Data Review
Site Name: Allied Paper (MI)
Case Number: 29294 Laboratory: Southwest Laboratory
SDG: E00E6

Friday, July 06, 2001

US EPA RECORDS CENTER REGION 5
560017

PCBs

Samples:

Sample No	Station Location	Matrix	Date Collected	Date Extracted	Date Analyzed
E00E6	AP-SD042-01	Soil	06/05/01	06/07/01	06/15/01
E00F6	AP-SD028-02	Soil	06/05/01	06/07/01	06/15/01
E00F7	AP-SD028-03	Soil	06/05/01	06/07/01	06/15/01
E00F8	AP-SD029-01	Soil	06/05/01	06/07/01	06/15/01
E00G0	AP-SD029-02	Soil	06/05/01	06/07/01	06/15/01
E00G1	AP-SD029-03	Soil	06/05/01	06/07/01	06/15/01
E00G2	AP-SD030-01	Soil	06/05/01	06/07/01	06/15/01
E00G3	AP-SD030-02	Soil	06/05/01	06/07/01	06/15/01
E00G4	AP-SD030-03	Soil	06/05/01	06/07/01	06/15/01
E00G5	AP-SD030-04	Soil	06/05/01	06/07/01	06/15/01
E00G6	AP-SL061-01	Soil	06/05/01	06/07/01	06/15/01
E00G7	AP-SL061-02	Soil	06/05/01	06/07/01	06/15/01
E00G8	AP-SL061-03	Soil	06/05/01	06/07/01	06/15/01
E00G9	AP-SL061-03DP	Soil	06/05/01	06/07/01	06/15/01
E00H0	AP-SL061-04	Soil	06/05/01	06/07/01	06/15/01
E00H1	AP-SL069-01	Soil	06/06/01	06/07/01	06/15/01
E00H3	AP-SL069-02	Soil	06/06/01	06/07/01	06/15/01
E00H5	AP-SL069-04	Soil	06/06/01	06/07/01	06/15/01
E00H6	AP-SL069-05	Soil	06/06/01	06/07/01	06/15/01
E00H7	AP-SL069-05DP	Soil	06/06/01	06/07/01	06/15/01

Holding Time:

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

Method Blank:

The method blank PBLKSF was associated with SDG. PBLKSF was analyzed on 06/13/01 with all the samples (E00E6, E00F6 thru E00F8, E00G0 thru E00G9, E00H0, E00H1, E00H3, E00H5 thru E00H7, and MS/MSD). The PBLKSF 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 blank and investigated samples had surrogate recoveries within the acceptance quality control limits (30 to 170%), except in E00E6 (*DCB1 173%) was outside the quality control limits. Also, the surrogate was diluted out in E00F8 (*DCB2 174D%), E00G0DL (*DCB2 272D%), E00G1DL (*DCB1 583D% DCB2 272D%), E00G4DL (*DCB1 173D% DCB2 219D%), and E00G6DL (*DCB1 186D% DCB2 201D%). Therefore, qualify the results as (J) for detected values in the following samples: E00E6, E00F8, E00G0DL, E00G1DL, E00G4DL, and E00G6DL. (*DCB= Decachlorobiphenyl)

Data Review Friday, July 06, 2001
Site Name: Allied Paper (MI)
Case Number: 29294 Laboratory: Southwest Laboratory
SDG: E00E6

Matrix Spike/ Matrix Spike Duplicate Recovery:
The matrix spike/ matrix spike duplicate audit was performed on sample E00E6. The matrix spike/matrix spike duplicate, and 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 duplicate, 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: 07/13/01

67-4A-AALC

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 06-27-01

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: E00E6

Number and Type of Samples: 20 Soils

Sample Numbers: E00E6, E00F6-8, E00G0-9, E00H0,1,3,5-7

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: E00E6 CERCLIS No: _____

Case No: 29294 Site Name/Location: Allied Paper

Contractor of EPA Lab: SWOK Data User: Weston

No. of Samples: 20 Date Sampled or Date Received: 06-27-01

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: 6-27-01

Received by LSSS: A. C. Harvey / ESAT Date: 6-27-01

Review started: _____ Reviewer Signature: _____

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

Copied by: A. C. Harvey / ESAT Date: 6-27-01

Mailed to user by: _____ Date: _____

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: _____

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 29294 SDG No. E00E6 SDG Nos. to Follow _____ _____ _____ SAS No. _____ Date Recvd 6 / 27 / 01

		YES	NO	N/A
EPA Lab ID: SWOK	ORIGINALS			
Lab Location: Broken Arrow, OK	CUSTODY SEALS			
Region: 5 Audit No:	1. Present on package?	✓		
Re-Submitted CSF? Yes____ No____	2. Intact upon receipt?	✓		
Box No (s): _____	FORM DC-2			
COMMENTS:	3. Numbering scheme accurate?			
	4. Are enclosed documents listed?			
	5. Are listed documents enclosed?			
	FORM DC-1			
	6. Present?			
	7. Complete?			
	8. Accurate?			
	CHAIN-OF-CUSTODY RECORD(s)			
	9. Signed?			
	10. Dated?			
	TRAFFIC REPORT (s) / PACKING LIST(s)			
	11. Signed?			
	12. Dated?			
	AIRBILLS / AIRBILL STICKER			
	13. Present?			
	14. Signed?			
	15. Dated?			
	SAMPLE TAGS			
	16. Does DC-1 list tags as being included?			
	17. Present?			
	OTHER DOCUMENTS			
	18. Complete?			
	19. Legible?			
	20. Original?			
Over for additional comments.	If 'NO', does the copy indicate where the original documents are located?			

Received by: A. C. Harvey / ESAT Allison C Harvey / ESAT Date 6 / 27 / 01

Audited by: _____ _____ Date ___ / ___ / ___

Audited by: _____ _____ Date ___ / ___ / ___
Signature Printed Name/ Title

TO BE COMPLETED BY CEAT

Date Recvd by CEAT: ___ / ___ / ___ Date Entered: ___ / ___ / ___ Date Reviewed: ___ / ___ / ___

Entered by: _____ _____

Reviewed by: _____ _____
Signature Printed Name/ Title

Rec'vd 06-27-01

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME SOUTHWEST LABORATORY OF OKLAHOMA
CITY/STATE BROKEN ARROW, OKLAHOMA

CASE NO. 29294 SDG NO. E00E6 SDG NOS. TO FOLLOW
SAS NO.

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. E00E6 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	9		
MS/MSD Duplicate Summary (Form III PEST)	10	11	✓	
Method Blank Summary (Form IV PEST)	22	13		

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

CASE NO. 29294 SDG NO. E00E6 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. **Pesticides Data** (Cont.)				
b. Sample Data	14	136		
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	136	316		
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	317	356	✓	
Matrix Spke/Matrix Spike Duplicate Data	357	369		

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

CASE NO. 29294 SDG NO. E00E6 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. **Pesticides Data** (Cont.)				
e. Raw GPC Data	370	408	✓	
f. Raw Florisil Data	NA	NA		
7. **Miscellaneous Data**				
Original preparation and analysis forms or of preparation and analysis logbook pages	409	421		
Internal sample and sample extract transfer chain-of-custody records	422	426		
Screening records	427	434		
All instrument output, including strip charts from screening activities (describe or list)				
	NA	NA		
8. **EPA Shipping/Receiving Documents**				
Airbills (No. of shipments 1)	435	435		
Chain-of-Custody Records	436	439		
Sample Tags	440	459		
Sample Log-in Sheet (Lab & DC1)	460	465		
Miscellaneous Shipping/Receiving Records (describe or list)				
Modified Analysis, Changes, Analytical Request	466	470		
	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. E00E6 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	(Signature)	(Printed Name/Title)	(Date)
Completed by: (CLP Lab)	Emma Morton	Emma Morton Data Clerk	6-19-01
Verified by: (CLP Lab)	Sandra Jackett	Sandra Jackett/Data Clerk	6/19/01
Audited by: (EPA)			

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

SDG NARRATIVE

June 19, 2001

CONTRACT: 68W99079

CASE NO: 29294

SDG NO: E00E6

SAMPLES: E00E6, E00E6MS, E00E6MSD, E00F6, E00F7, E00F8, E00F8DL, E00G0, E00G0DL, E00G1, E00G1DL, E00G2, E00G3, E00G3DL, E00G4, E00G4DL, E00G5, E00G6, E00G6DL, E00G7, E00G8, E00G9, E00H0, E00H1, E00H3, E00H5, E00H6 and E00H7.

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, E00F8DL, E00G0DL, E00G1DL, E00G3DL, E00G4DL and E00G6DL.

The sample cooler arrived at 4.8 degrees Celsius.

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.

Sample E00F8 was analyzed undiluted, 10X-dilution and 20X dilution. The surrogates were within QC limits on the undiluted analyses but slightly high on the 10X analyses, therefore the undiluted analyses and the 20X were submitted in the data package and the 10X was put in the misc. section of the data package.

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

Surrogates: Samples E00E6 had high DBC surrogate recovery on one column at 173%. The other column had recovery within QC limits indicating matrix interference on one column and the sample was not re-extracted.

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
Organic Program Manager

June 19, 2001

Contract Laboratory Program

Sample Delivery Group (SDG) Cover Sheet

SDG Number E00E6

st 6/8/01

Laboratory Name Southwest Laboratory of Ok. Laboratory Code SWOK

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

Analyses Price 910.40 SDG Turnaround 7

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) E00E6	7) E00G2	13) E00G8	19) E00H6
~~2) E00F6~~	~~8) E00G3~~	~~14) E00G9~~	~~20) E00H7~~
3) E00F7	9) E00G4	15) E00H0	21)
4) E00F8	10) E00G5	16) E00H1	22)
5) E00G0	11) E00G6	17) E00H3	23)
6) E00G1	12) E00G7	18) E00H5	~~24)~~

st 6/8/01

E00E6	E00H7
First Sample in SDG	Last Sample in SDG
06/07/2001	06/07/2001
First Sample Receipt Date	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 [illegible] Date 6-8-01

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Version 2.0

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

Case No:	29294
DAS No:	2001ZG07 E00E6
SDG No:	E3047

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5/4/8/01

Date Shipped: 6/6/2001
Carrier Name: FedEx
Airbill: 821876982001
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 [illegible]	6-6-01 1715	[illegible]	6-7-01 8:30
2			
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No: 68699079
Unit Price: 910.40
Transfer To:
Lab Contract No:
Unit Price:

E00E6

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
E00E5	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-119246 (Ice Only) (1)	AP-SD042-04	S: 6/5/2001 10:46		
E00E6	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-119247 (Ice Only) (1)	AP-SD042-01	S: 6/5/2001 10:46		
E00E7	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-119248 (Ice Only) (1)	AP-SD042-02	S: 6/5/2001 10:46		
E00E8	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-119249 (Ice Only) (1)	AP-SD042-03	S: 6/5/2001 10:46		
E00E9	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-119250 (Ice Only) (1)	AP-SD042-05	S: 6/5/2001 10:46		
E00F0	Sediment/ Rick Mehl	L/G	PCBs (7)	5-119251 (Ice Only) (1)	AP-SD050-01	S: 6/5/2001 15:26		
E00F1	Sediment/ Rick Mehl	L/G	PCBs (7)	5-119252 (Ice Only) (1)	AP-SD050-02	S: 6/5/2001 15:26		
E00F2	Sediment/ Rick Mehl	L/G	PCBs (7)	5-119255 (Ice Only) (1)	AP-SD050-03	S: 6/5/2001 15:26		
E00F3	Sediment/ Rick Mehl	L/G	PCBs (7)	5-119256 (Ice Only) (1)	AP-SD050-03DP	S: 6/5/2001 15:26		
E00F4	Sediment/ Rick Mehl	L/G	PCBs (7)	5-119257 (Ice Only) (1)	AP-SD050-04	S: 6/5/2001 15:26		

E3047
5/4/8/01

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3047
Signature [illegible]
Date 6/8/01

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E00H4, E00E6	Additional Sampler Signature(s): [illegible]	Cooler Temperature Upon Receipt: 4.8°c	Chain of Custody Seal Number: 177899, 177900
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

R Number: 5-154097651-060601-0001

LABORATORY COPY

R provides preliminary results. Requests for preliminary results will increase analytical costs.
nd 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:	E00E6

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Date Shipped:	6/6/2001
Carrier Name:	FedEx
Airbill:	821876982001
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 [signature]	6.6.01 1715	[signature]	6-7-01 8:30
2			
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No:	68L99079
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
E00F5	Sediment/ JOE RUIZ	L/G	PCBs (7)	5-119258 (Ice Only) (1)	AP-SD028-01	S: 6/5/2001 16:00		
E00F6	Sediment/ JOE RUIZ	L/G	PCBs (7)	5-119261 (Ice Only) (1)	AP-SD028-02	S: 6/5/2001 16:00		
E00F7	Sediment/ JOE RUIZ	L/G	PCBs (7)	5-119262 (Ice Only) (1)	AP-SD028-03	S: 6/5/2001 16:00		
E00F8	Sediment/ JOE RUIZ	L/G	PCBs (7)	5-119263 (Ice Only) (1)	AP-SD029-01	S: 6/5/2001 16:15		
E00G0	Sediment/ JOE RUIZ	L/G	PCBs (7)	5-119266 (Ice Only) (1)	AP-SD029-02	S: 6/5/2001 16:15		
E00G1	Sediment/ JOE RUIZ	L/G	PCBs (7)	5-119268 (Ice Only) (1)	AP-SD029-03	S: 6/5/2001 16:15		
E00G2	Sediment/ JOE RUIZ	L/G	PCBs (7)	5-119272 (Ice Only) (1)	AP-SD030-01	S: 6/5/2001 15:45		
E00G3	Sediment/ JOE RUIZ	L/G	PCBs (7)	5-119273 (Ice Only) (1)	AP-SD030-02	S: 6/5/2001 15:45		
E00G4	Sediment/ JOE RUIZ	L/G	PCBs (7)	5-119274 (Ice Only) (1)	AP-SD030-03	S: 6/5/2001 15:45		
E00G5	Sediment/ JOE RUIZ	L/G	PCBs (7)	5-119276 (Ice Only) (1)	AP-SD030-04	S: 6/5/2001 15:45		

COPY

ORIGINAL DOCUMENTS ARE INCLUDED IN 3 SDG's

CSF 29294 SDG E00E7

Signature [signature]

Date 6/8/01

6/8/01

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC: E00H4, E00E6	Additional Sampler Signature(s): [signature]	Cooler Temperature Upon Receipt: 4.8°C	Chain of Custody Seal Number: 177899, 177900
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Y	Shipment Iced? Y

R Number: 5-154097651-060601-0001

LABORATORY COPY

R provides preliminary results. Requests for preliminary results will increase analytical costs.
end 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:	E00E6

L

Date Shipped:	6/6/2001
Carrier Name:	FedEx
Airbill:	821876982001
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 [illegible]	6-6-01 1715	[illegible]	6-7-01 8:32
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 E00E6
E00G6	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-119278 (Ice Only) (1)	AP-SL061-01	S: 6/5/2001 16:21		
E00G7	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-119280 (Ice Only) (1)	AP-SL061-02	S: 6/5/2001 16:21		
E00G8	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-119282 (Ice Only) (1)	AP-SL061-03	S: 6/5/2001 16:21		
E00G9	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-119283 (Ice Only) (1)	AP-SL061-03DP	S: 6/5/2001 16:21		
E00H0	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-119284 (Ice Only) (1)	AP-SL061-04	S: 6/5/2001 16:21		
E00H1	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119285 (Ice Only) (1)	AP-SL069-01	S: 6/6/2001 11:30		
E00H3	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119288 (Ice Only) (1)	AP-SL069-02	S: 6/6/2001 11:30		
E00H4	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119290 (Ice Only) (1)	AP-SL069-03	S: 6/6/2001 11:30		
E00H5	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119292 (Ice Only) (1)	AP-SL069-04	S: 6/6/2001 11:30		
E00H6	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119294 (Ice Only) (1)	AP-SL069-05	S: 6/6/2001 11:30		

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC: E00H4, E00E6	Additional Sampler Signature(s): [illegible]	Cooler Temperature Upon Receipt: 4.8°c	Chain of Custody Seal Number: 17899, 177900
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

R Number: 5-154097651-060601-0001

LABORATORY COPY

R 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:	E00E6

L

Date Shipped:	6/6/2001
Carrier Name:	FedEx
Airbill:	821876982001
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 [signature]	6-6-01 1715	[signature]	6-7-01 8:32
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 E00E6
* E00H7	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119295 (Ice Only) (1)	AP-SL069-05DP	S: 6/6/2001 11:30		
E00H8	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119298 (Ice Only) (1)	AP-SL069-06	S: 6/6/2001 11:30		
E00H9	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119300 (Ice Only) (1)	AP-SL064-01	S: 6/6/2001 12:00		
E00J0	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119302 (Ice Only) (1)	AP-SL064-02	S: 6/6/2001 12:00		
E00J1	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119303 (Ice Only) (1)	AP-SL064-03	S: 6/6/2001 12:00		
E00J2	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119305 (Ice Only) (1)	AP-SL064-04	S: 6/6/2001 12:00		
E00J3	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119307 (Ice Only) (1)	AP-SL064-04DP	S: 6/6/2001 12:00		
E00J4	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119308 (Ice Only) (1)	AP-SL064-05	S: 6/6/2001 12:00		
E00J5	Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119310 (Ice Only) (1)	AP-SD044-01	S: 6/6/2001 9:45		
E00J6	Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119311 (Ice Only) (1)	AP-SD044-02	S: 6/6/2001 9:45		

* SDG Final Sample

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E00H4, E00E6	Additional Sampler Signature(s): [signature]	Cooler Temperature Upon Receipt: 4-8°C
Chain of Custody Seal Number: 17899, 17900			
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C Grab = G	Custody Seal Intact? Y Shipment Iced? Y

R Number: 5-154097651-060601-0001

R provides preliminary results. Requests for preliminary results will increase analytical costs.

LABORATORY COPY

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.: E00E6

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	PBLKSF	68	85	40	49	0
02	ELCS1	68	85	44	55	0
03	ELCS2	89	111	61	77	0
04	E00E6	65	84	173*	113	1
05	E00E6MS	79	80	103	106	0
06	E00E6MSD	88	99	135	116	0
07	E00F6	108	108	112	114	0
08	E00F7	76	76	96	86	0
09	E00F8	70	68	85	81	0
10	E00G0	61	58	54	135	0
11	E00G1	67	70	107	73	0
12	E00G2	81	86	100	100	0
13	E00G3	72	75	88	90	0
14	E00G4	70	78	107	107	0
15	E00G5	70	75	87	86	0
16	E00G6	101	104	116	119	0
17	E00G7	87	89	97	100	0
18	E00G8	87	92	104	107	0
19	E00G9	58	61	76	76	0
20	E00H0	67	69	80	82	0
21	E00H1	89	94	106	110	0
22	E00H3	97	100	111	114	0
23	E00H5	76	83	94	92	0
24	E00H6	69	76	84	81	0
25	E00H7	126	144	156	156	0
26	E00F8DL	136	132	164	174D	0
27	E00G0DL	128	120	131	272D	0
28	E00G1DL	184	197	583D	569D	0
29	E00G3DL	88	92	110	121	0
30	E00G4DL	147	149	173D	219D	0

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

2F
SOIL AROCLOR SURROGATE RECOVERY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

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	E00G6DL	154	154	186D	201D	0
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

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.: E00E6

LCS Sample NO.: ELCS1

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Aroclor-1254	133	99.8	75	29-135

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1254	133	143	108	36	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.: E00E6

Matrix Spike - Client Sample NO.: E00E6

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Aroclor-1254	168	217	354	81	29-135

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1254	168	380	97	7	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.

PBLKSF

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Lab Sample ID: BL0607SF Lab File ID: 15061281

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

Sulfur Cleanup: (Y/N) N Date Extracted: 06/07/01

Date Analyzed (1): 06/13/01 Date Analyzed (2): 06/13/01

Time Analyzed (1): 1928 Time Analyzed (2): 1928

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	LC0607SF	06/13/01	06/13/01
02	ELCS2	LD0607SF	06/13/01	06/13/01
03	E00E6	46702.11	06/15/01	06/15/01
04	E00E6MS	46702.12MS	06/15/01	06/15/01
05	E00E6MSD	46702.13MSD	06/15/01	06/15/01
06	E00F6	46702.14	06/15/01	06/15/01
07	E00F7	46702.15	06/15/01	06/15/01
08	E00F8	46702.16	06/15/01	06/15/01
09	E00G0	46702.17	06/15/01	06/15/01
10	E00G1	46702.18	06/15/01	06/15/01
11	E00G2	46702.19	06/15/01	06/15/01
12	E00G3	46702.20	06/15/01	06/15/01
13	E00G4	46702.21	06/15/01	06/15/01
14	E00G5	46702.22	06/15/01	06/15/01
15	E00G6	46702.23	06/15/01	06/15/01
16	E00G7	46702.24	06/15/01	06/15/01
17	E00G8	46702.25	06/15/01	06/15/01
18	E00G9	46702.26	06/15/01	06/15/01
19	E00H0	46702.27	06/15/01	06/15/01
20	E00H1	46702.28	06/15/01	06/15/01
21	E00H3	46702.29	06/15/01	06/15/01
22	E00H5	46702.30	06/15/01	06/15/01
23	E00H6	46702.31	06/15/01	06/15/01
24	E00H7	46702.32	06/15/01	06/15/01
25	E00F8DL	46702.16DL	06/16/01	06/16/01
26	E00G0DL	46702.17DL	06/16/01	06/16/01

Comments: _____

4C

AROCLOR METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PBLKSF

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Lab Sample ID: BL0607SF Lab File ID: 15061281

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

Sulfur Cleanup: (Y/N) N Date Extracted: 06/07/01

Date Analyzed (1): 06/13/01 Date Analyzed (2): 06/13/01

Time Analyzed (1): 1928 Time Analyzed (2): 1928

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	E00G1DL	46702.18DL	06/16/01	06/16/01
02	E00G3DL	46702.20DL	06/16/01	06/16/01
03	E00G4DL	46702.21DL	06/16/01	06/16/01
04	E00G6DL	46702.23DL	06/16/01	06/16/01
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

Comments: _____

HYDROGEN USED AS CARRIER GAS FOR SAMPLE ANALYSES

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00E6

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Matrix: (soil/water) SOIL Lab Sample ID: 46702.11

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

% Moisture: 21 decanted: (Y/N) __ Date Received: 06/07/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/07/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/15/01

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	41	U ~~UJ~~
11104-28-2	Aroclor-1221	41	U ~~UJ~~
11141-16-5	Aroclor-1232	41	U ~~UJ~~
53469-21-9	Aroclor-1242	150	~~PJ~~
12672-29-6	Aroclor-1248	41	J ~~UJ~~
11097-69-1	Aroclor-1254	220	J
11096-82-5	Aroclor-1260	150	J
	Surrogate amount spiked	8.38	

TBS 7/7/01
TBS 7/13/01

FORM I PCB

Quantitation Report

Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061433.D\ECD1A.CH Vial: 33
Acq On : 15 Jun 2001 6:18 Operator: DDC
Sample : 46702.11 *E00E6 * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*21 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061433.D\ECD2B.CH Vial: 33
Acq On : 15 Jun 2001 6:18 Operator: DDC
Sample : 46702.11 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 15 8:55 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	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	326777	389717	5.461	7.049	#
	Spiked Amount 8.383			Recovery	=	65.14%	84.09%	
22)	S DCB	18.29	18.69	895683	536090	14.5	9.483	#
	Spiked Amount 8.383			Recovery	=	172.97%	113.12%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.42	10.40	118023	219273	85.0	326.1	#
8)	L4 Aroclor-1242 {2}	9.70	11.18	71935	118029	77.0	103.3	#
10)	L4 Aroclor-1242 {4}	11.64	12.63	379026	183754	276.5	250.8	
	Sum Aroclor-1242			568985	521056	438.5	680.3	
	Average Aroclor-1242					146.181	226.766	
12)	L6 Aroclor-1254	12.63	0.00	524569	0	189.4	N.D. d	#
13)	L6 Aroclor-1254 {2}	0.00	13.02	0	401874	N.D. d	354.5	#
14)	L6 Aroclor-1254 {3}	13.78	13.93	428687	114645	174.2	92.7	#
15)	L6 Aroclor-1254 {4}	14.31	0.00	622788	0	282.2	N.D. d	#
16)	L6 Aroclor-1254 {5}	14.99	15.39	415503	533934	223.8	244.6	
	Sum Aroclor-1254			1991547	1050453	869.6	691.8	
	Average Aroclor-1254					217.400	230.588	
17)	L7 Aroclor-1260	14.31	0.00	622788	0	160.5	N.D. d	#
18)	L7 Aroclor-1260 {2}	14.80	14.72	957604	903068	183.5	263.5	#
19)	L7 Aroclor-1260 {3}	15.24	14.92	1108822	735890	222.8	181.5	
20)	L7 Aroclor-1260 {4}	15.71	16.09	263369	173063	92.7	74.4	
21)	L7 Aroclor-1260 {5}	16.16	16.32	604155	576952	106.8	102.3	
	Sum Aroclor-1260			3556738	2388973	321.2	260.6	
	Average Aroclor-1260					153.259	155.420	

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

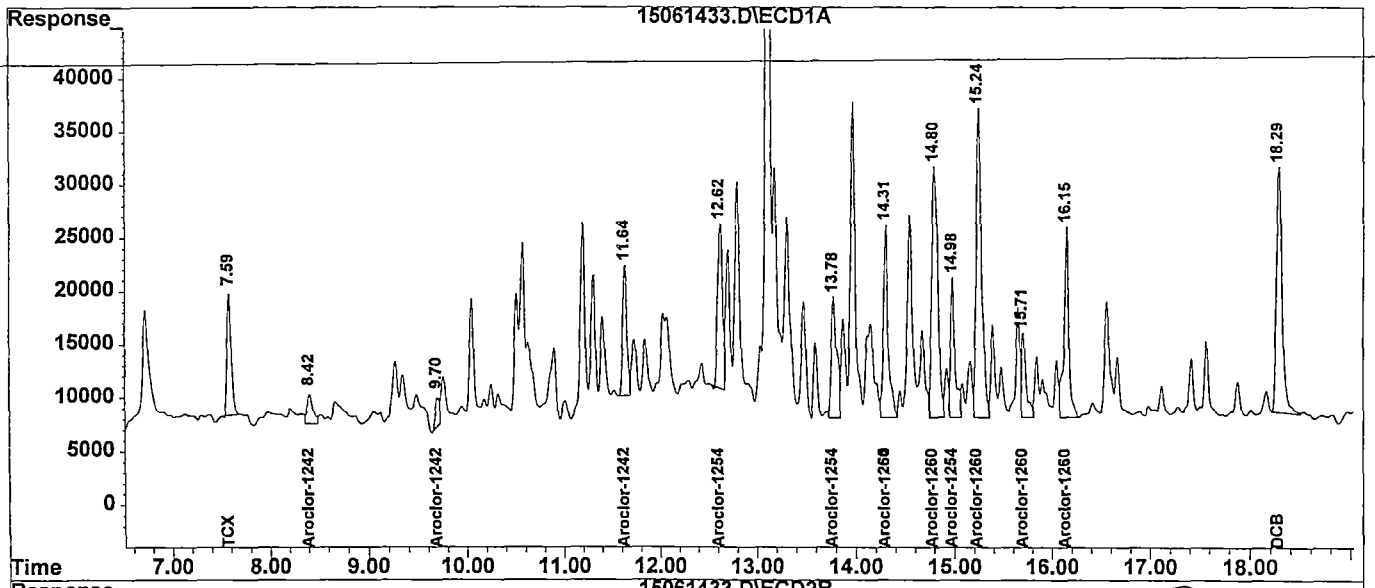
Chromatographic Report

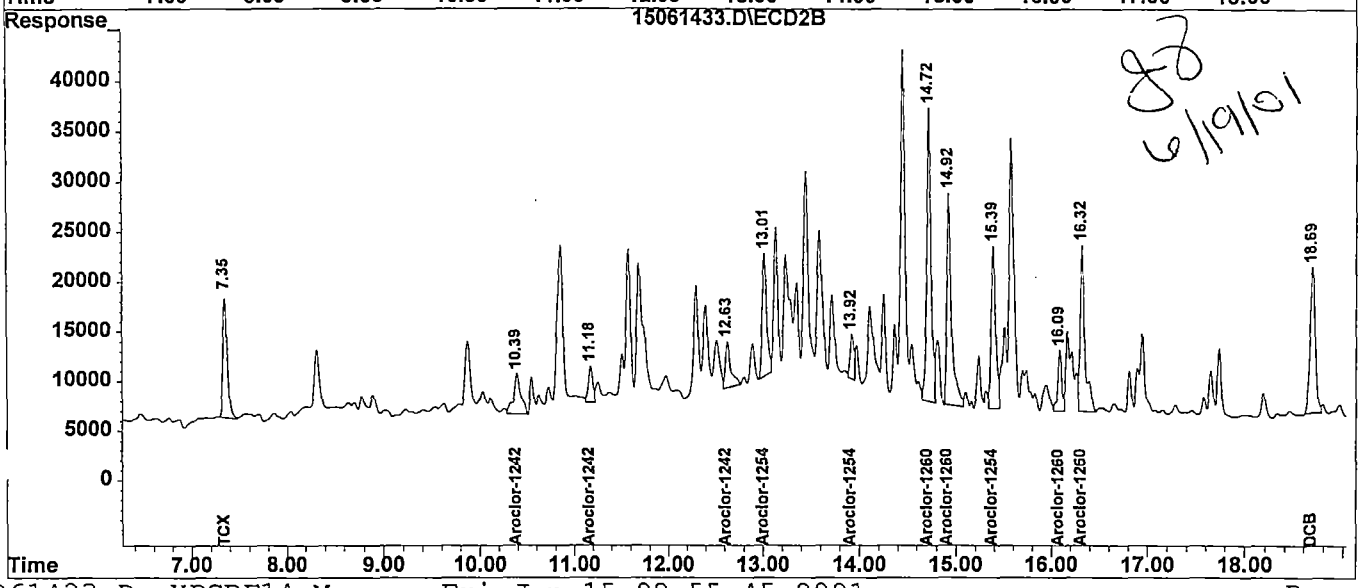
Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061433.D\ECD1A.CH Vial: 33
Acq On : 15 Jun 2001 6:18 Operator: DDC
Sample : 46702.11 *E00E6 * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*21 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061433.D\ECD2B.CH Vial: 33
Acq On : 15 Jun 2001 6:18 Operator: DDC
Sample : 46702.11 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 15 8:55 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

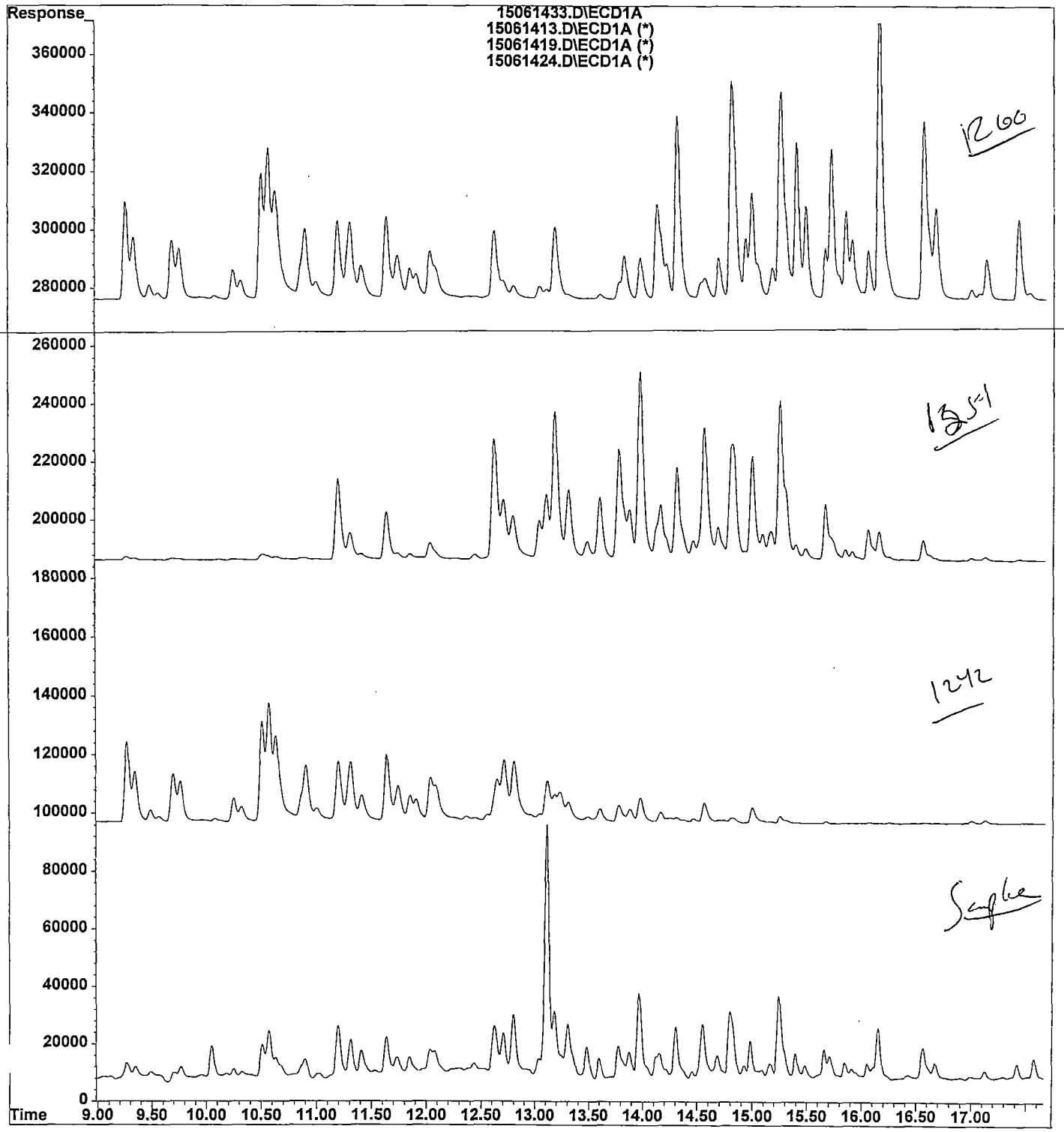
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/19/01

File : F:\HPCHEM\HP\15\DATA\06_14_01\15061433.D
Operator : DDC
Acquired : 15 Jun 2001 6:18 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46702.11
Misc Info :
Vial Number: 33



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00F6

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Matrix: (soil/water) SOIL Lab Sample ID: 46702.14

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

% Moisture: 61 decanted: (Y/N) __ Date Received: 06/07/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/07/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/15/01

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	83	U
11104-28-2	Aroclor-1221	83	U
11141-16-5	Aroclor-1232	83	U
53469-21-9	Aroclor-1242	83	U
12672-29-6	Aroclor-1248	83	U
11097-69-1	Aroclor-1254	83	U
11096-82-5	Aroclor-1260	83	U
	Surrogate amount spiked	16.81	

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061436.D\ECD1A.CH Vial: 36
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061436.D\ECD2B.CH
Acq On : 15 Jun 2001 7:28 Operator: DDC
Sample : 46702.14 *E00F6 * Inst : HP_15
Misc : *EPA*30.5G/5.0ML*61 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 9:00 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	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	541154	501923	18.1	18.2
	Spiked Amount 16.814			Recovery	=	107.65%	108.24%
22)	S DCB	18.28	18.69	578517	538974	18.8	19.1
	Spiked Amount 16.814			Recovery	=	111.81%	113.60%
	Target Compounds:						

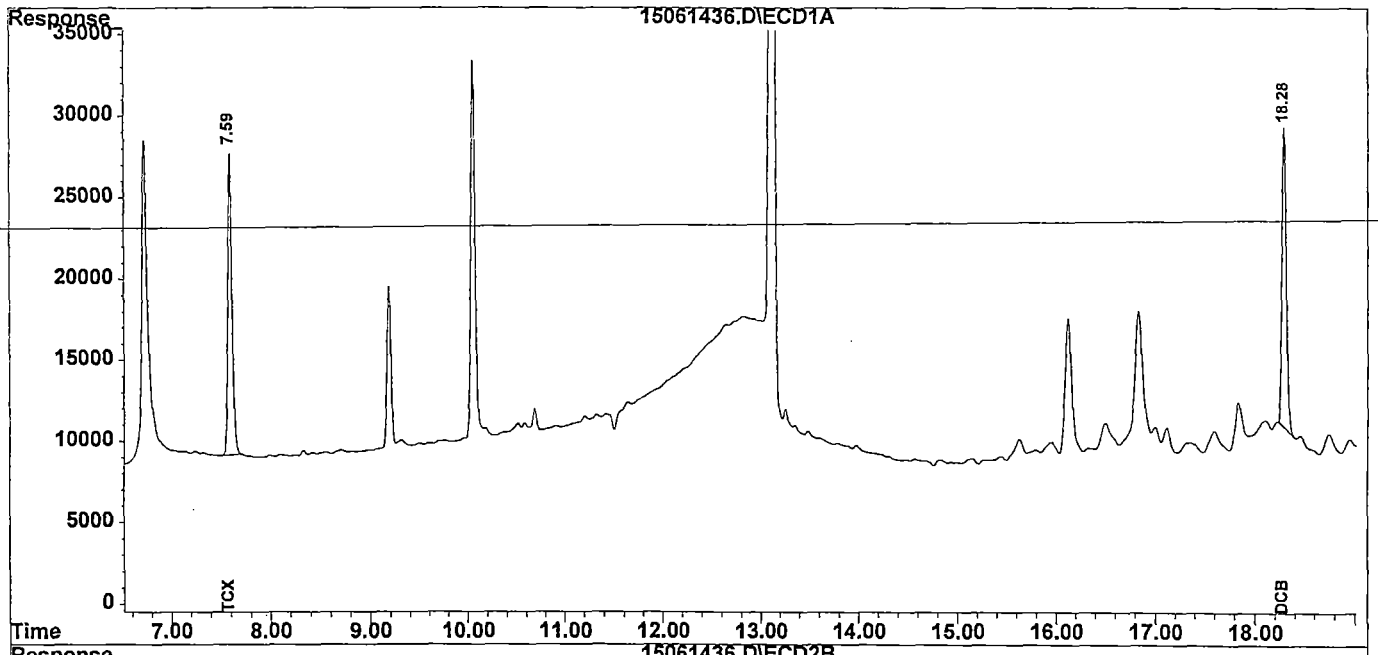
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

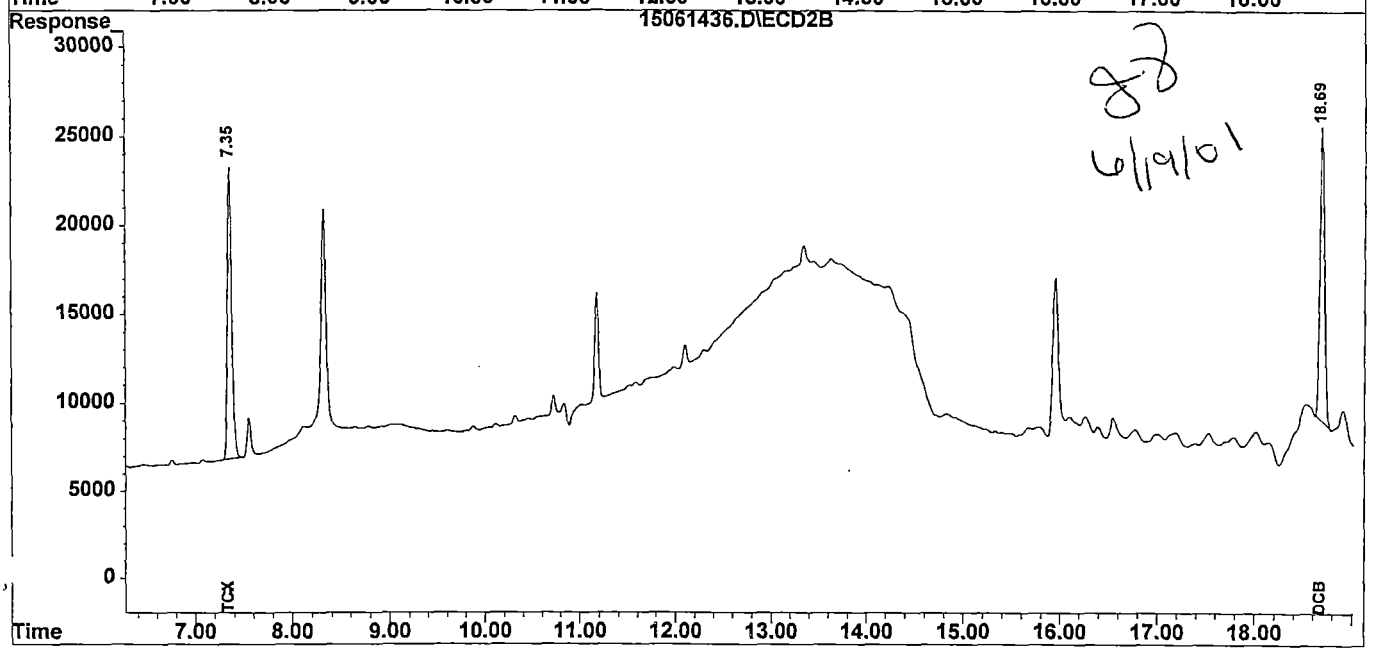
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061436.D\ECD1A.CH Vial: 36
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061436.D\ECD2B.CH
Acq On : 15 Jun 2001 7:28 Operator: DDC
Sample : 46702.14 *E00F6 * Inst : HP_15
Misc : *EPA*30.5G/5.0ML*61 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 9:00 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





6/19/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061436.D\ECD1A.CH Vial: 36
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061436.D\ECD2B.CH
Acq On : 15 Jun 2001 7:28 Operator: DDC
Sample : 46702.14 *E00F6 * Inst : HP_15
Misc : *EPA*30.5G/5.0ML*61 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 9:00 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	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	541154	501923	18.1	18.2
	Spiked Amount 16.814			Recovery	=	107.65%	108.24%
22)	S DCB	18.28	18.69	578517	538974	18.8	19.1
	Spiked Amount 16.814			Recovery	=	111.81%	113.60%
	Target Compounds:						

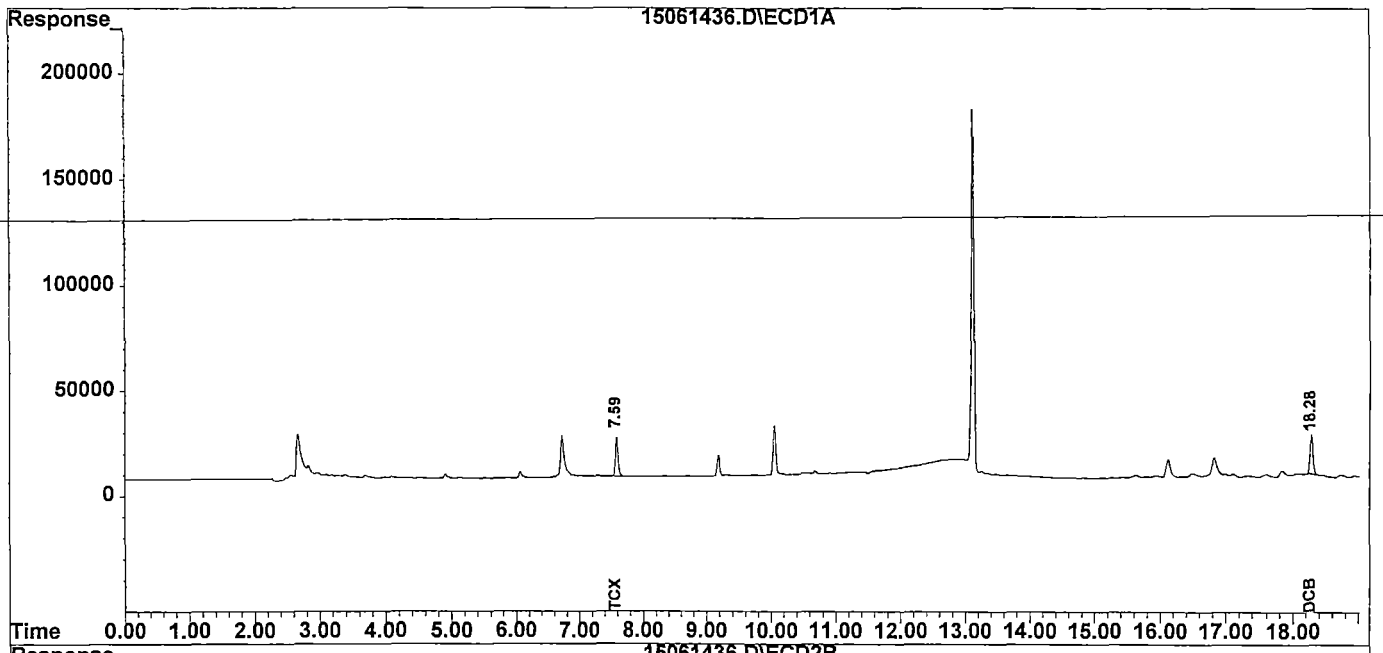
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

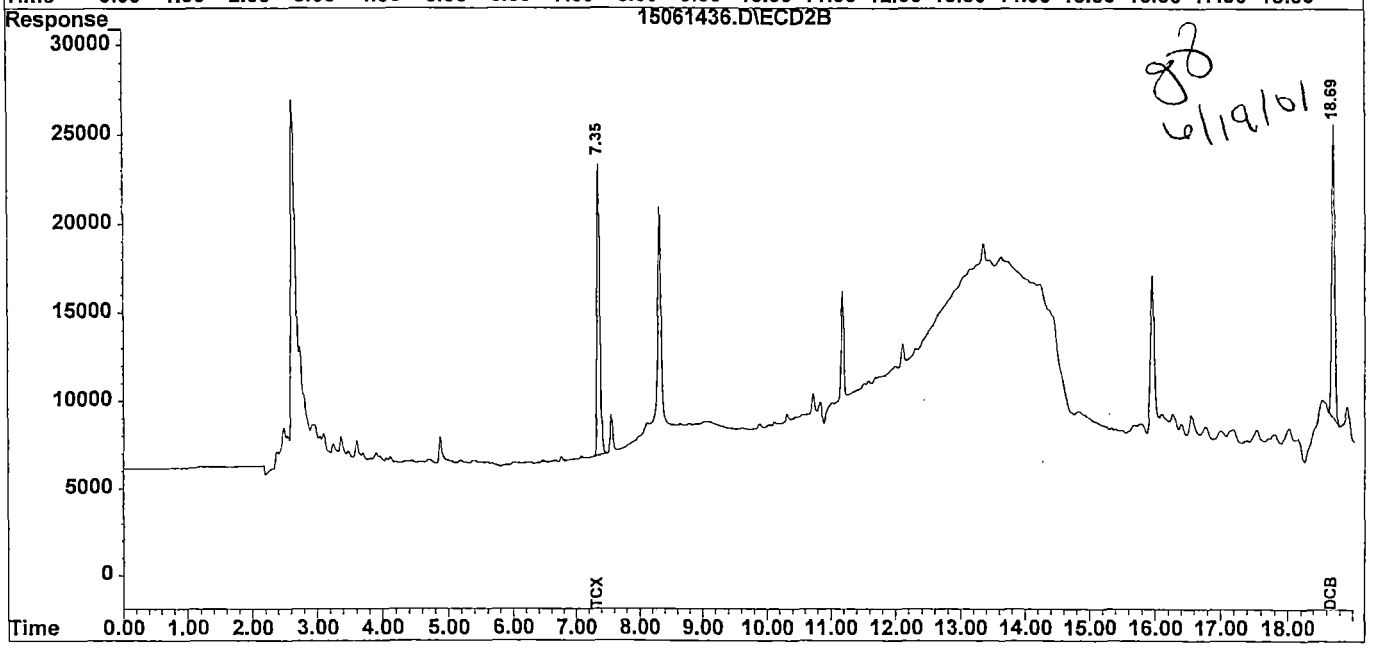
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061436.D\ECD1A.CH Vial: 36
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061436.D\ECD2B.CH
Acq On : 15 Jun 2001 7:28 Operator: DDC
Sample : 46702.14 *E00F6 * Inst : HP_15
Misc : *EPA*30.5G/5.0ML*61 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 9:00 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





6/19/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00F7

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Matrix: (soil/water) SOIL Lab Sample ID: 46702.15

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

% Moisture: 32 decanted: (Y/N) __ Date Received: 06/07/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/07/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/15/01

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	48	U
11104-28-2	Aroclor-1221	48	U
11141-16-5	Aroclor-1232	48	U
53469-21-9	Aroclor-1242	48	U
12672-29-6	Aroclor-1248	48	U
11097-69-1	Aroclor-1254	48	U
11096-82-5	Aroclor-1260	48	U
	Surrogate amount spiked	9.74	

FORM I PCB

Quantitation Report

Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061437.D\ECD1A.CH Vial: 37
Acq On : 15 Jun 2001 7:51 Operator: DDC
Sample : 46702.15 *E00F7 * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*32 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061437.D\ECD2B.CH Vial: 37
Acq On : 15 Jun 2001 7:51 Operator: DDC
Sample : 46702.15 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 15 9:01 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	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	383709	352982	7.450	7.417
	Spiked Amount 9.739			Recovery	=	76.50%	76.16%
22)	S DCB	18.28	18.69	496388	409367	9.327	8.413
	Spiked Amount 9.739			Recovery	=	95.77%	86.38%

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

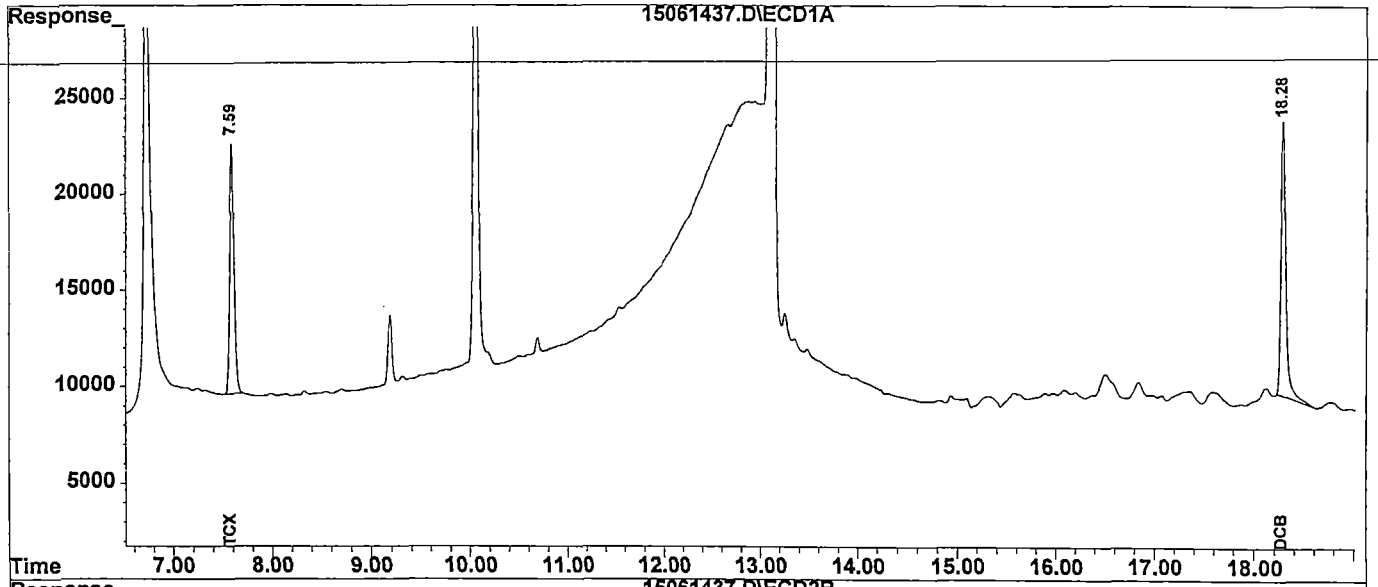
Chromatographic Report

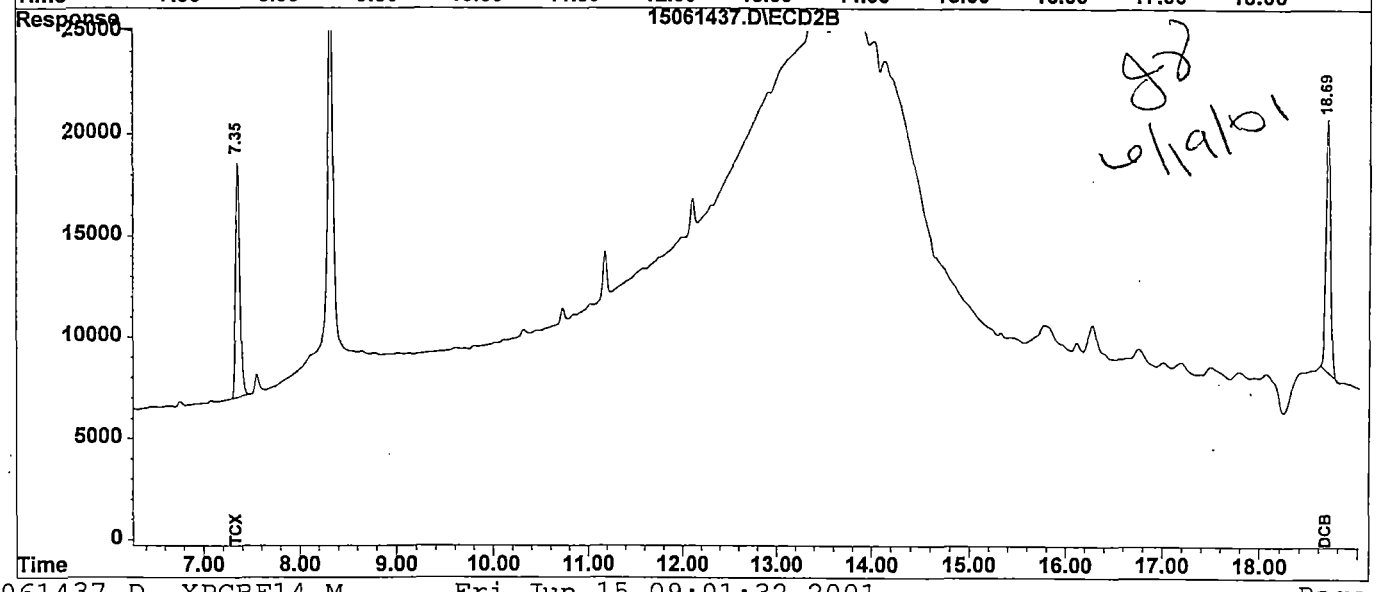
Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061437.D\ECD1A.CH Vial: 37
Acq On : 15 Jun 2001 7:51 Operator: DDC
Sample : 46702.15 *E00F7 * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*32 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061437.D\ECD2B.CH Vial: 37
Acq On : 15 Jun 2001 7:51 Operator: DDC
Sample : 46702.15 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 15 9:01 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





gg
6/19/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061437.D\ECD1A.CH Vial: 37
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061437.D\ECD2B.CH
Acq On : 15 Jun 2001 7:51 Operator: DDC
Sample : 46702.15 *E00F7 * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*32 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 9:01 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	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	383709	352982	7.450	7.417
	Spiked Amount 9.739			Recovery	=	76.50%	76.16%
~~22)~~	~~S DCB~~	~~18.28~~	~~18.69~~	~~496388~~	~~409367~~	~~9.327~~	~~8.413~~
	Spiked Amount 9.739			Recovery	=	95.77%	86.38%

Target Compounds:

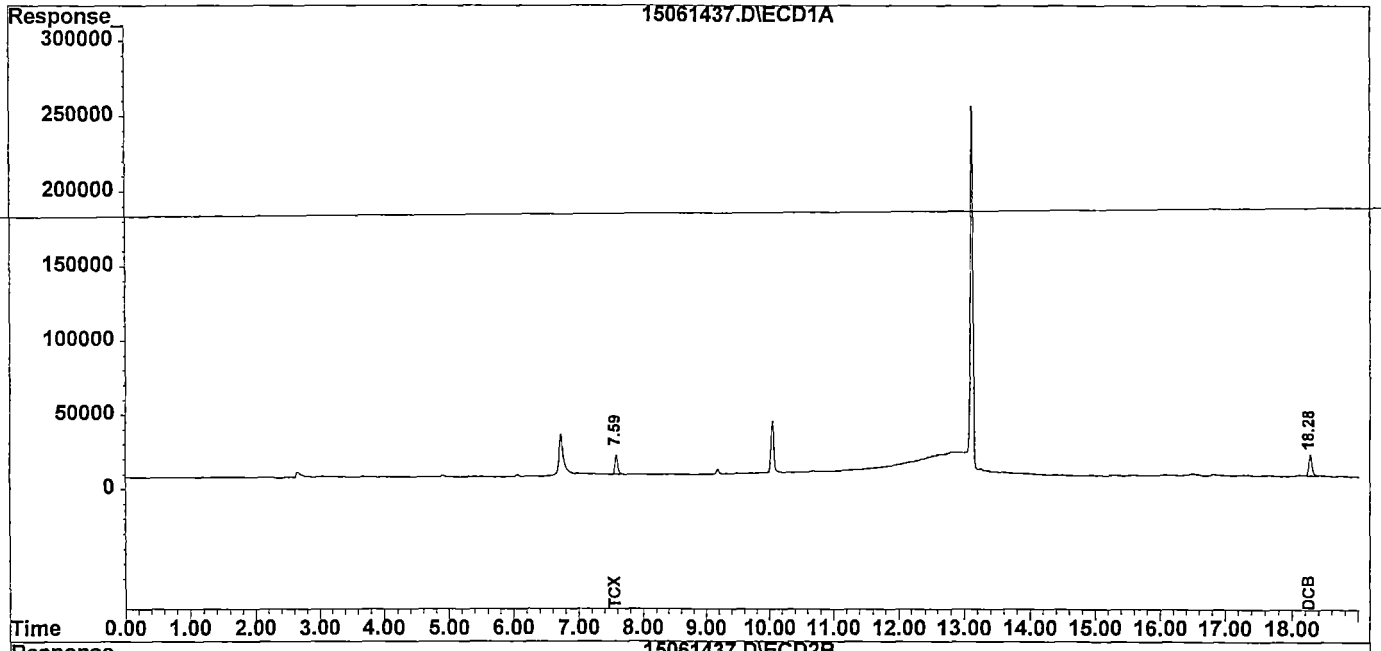
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

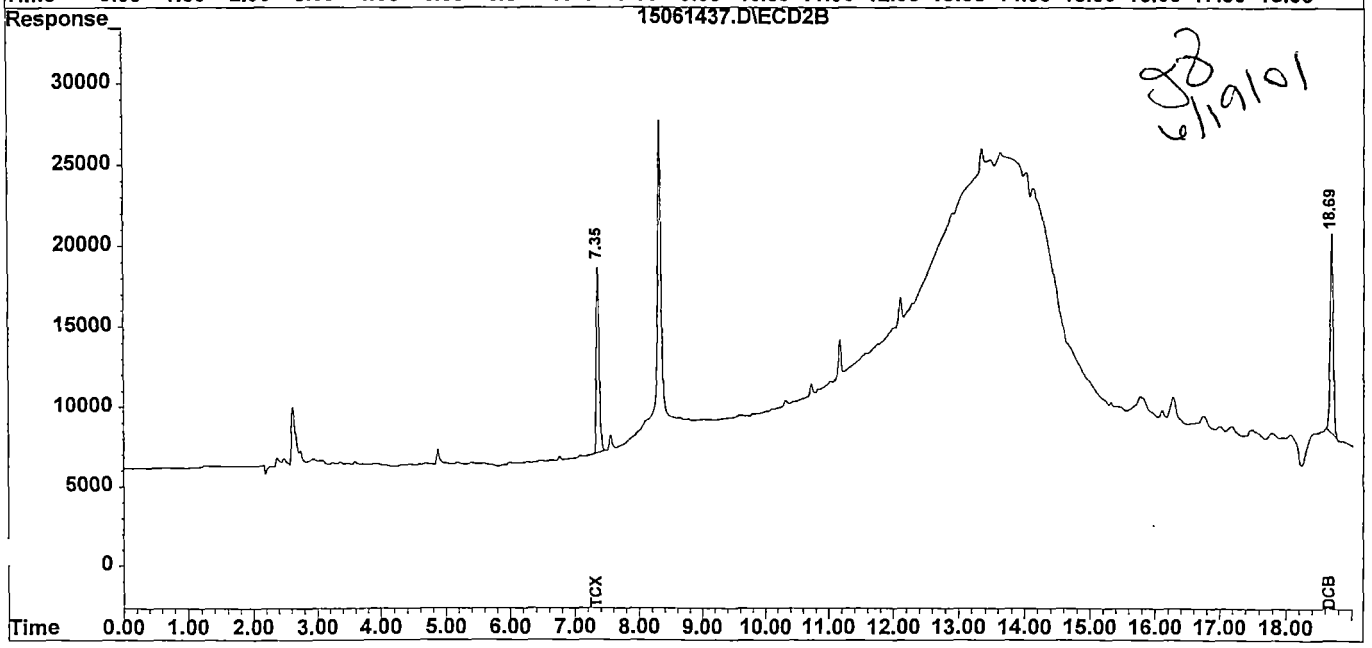
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061437.D\ECD1A.CH Vial: 37
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061437.D\ECD2B.CH
Acq On : 15 Jun 2001 7:51 Operator: DDC
Sample : 46702.15 *E00F7 * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*32 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 9:01 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





6/19/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00F8

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Matrix: (soil/water) SOIL Lab Sample ID: 46702.16

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

% Moisture: 66 decanted: (Y/N) __ Date Received: 06/07/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/07/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/15/01

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	97	U ~~UJ~~
11104-28-2	Aroclor-1221	97	U ~~UJ~~
11141-16-5	Aroclor-1232	97	U ~~UJ~~
53469-21-9	Aroclor-1242	~~5600~~	13000 ~~D~~ J ~~EPJ~~
12672-29-6	Aroclor-1248	97	U ~~UJ~~
11097-69-1	Aroclor-1254	830 J ~~830~~	~~2400D~~ ~~DJ~~
11096-82-5	Aroclor-1260	400 J ~~400~~	~~580D~~ ~~DJ~~
Surrogate amount spiked		19.60	

TBS
7/7/01
* apply this results
TBS 7/13/01

FORM I PCB

Quantitation Report

```
Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061438.D\ECD1A.CH Vial: 38
Acq On    : 15 Jun 2001   8:14                        Operator: DDC
Sample    : 46702.16  *E00F8  *                       Inst    : HP_15
Misc      : *EPA*30G/5.0ML*66                         Dilution: 1.00
IntFile   : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061438.D\ECD2B.CH Vial: 38
Acq On    : 15 Jun 2001   8:14                        Operator: DDC
Sample    : 46702.16                                  Inst    : HP_15
Misc      :                                           Dilution: 1.00
IntFile   : events2.e
Quant Time: Jun 15  9:05 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	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	349715	314752	13.7	13.3
	Spiked Amount 19.608			Recovery	=	69.87%	67.83%
22)	S DCB	18.28	18.69	438914	385080	16.6	15.9
	Spiked Amount 19.608			Recovery	=	84.66%	81.09%
	Target Compounds:						
7)	L4 Aroclor-1242	8.42	10.39	1898567	2330791	3198.7 E	8108.4 E#
8)	L4 Aroclor-1242 {2}	9.70	11.18	2263876	2283919	5669.1 E	4676.6 E
10)	L4 Aroclor-1242 {4}	11.64	0.00	4370748	0	7458.3 E	N.D. d #
11)	L4 Aroclor-1242 {5}	12.80	13.14	5004263	4216054	6159.1 E	9627.9 E#
	Sum Aroclor-1242			13537454	8830764	22485.3	22412.9
	Average Aroclor-1242					5621.325	7470.972
13)	L6 Aroclor-1254 {2}	13.31	0.00	762992	0	1008.1	N.D. d #
14)	L6 Aroclor-1254 {3}	13.79	13.93	917333	1408500	871.8	2663.2 E#
15)	L6 Aroclor-1254 {4}	14.31	14.92	733306	577374	777.2	764.9
16)	L6 Aroclor-1254 {5}	14.99	15.39	530632	734153	668.5	786.7
	Sum Aroclor-1254			2944263	2720026	3325.6	4214.8
	Average Aroclor-1254					831.393	1404.930
17)	L7 Aroclor-1260	14.31	0.00	733306	0	442.0	N.D. d #
18)	L7 Aroclor-1260 {2}	14.80	14.72	1240803	1702760	556.2	1162.3 #
19)	L7 Aroclor-1260 {3}	15.25	14.92	1191724	577374	560.1	333.1 #
20)	L7 Aroclor-1260 {4}	15.72	16.09	256355	204513	211.0	205.6
21)	L7 Aroclor-1260 {5}	16.16	16.32	547605	542957	226.5	225.1
	Sum Aroclor-1260			3969793	3027604	1956.6	1888.3
	Average Aroclor-1260					399.144	481.519

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

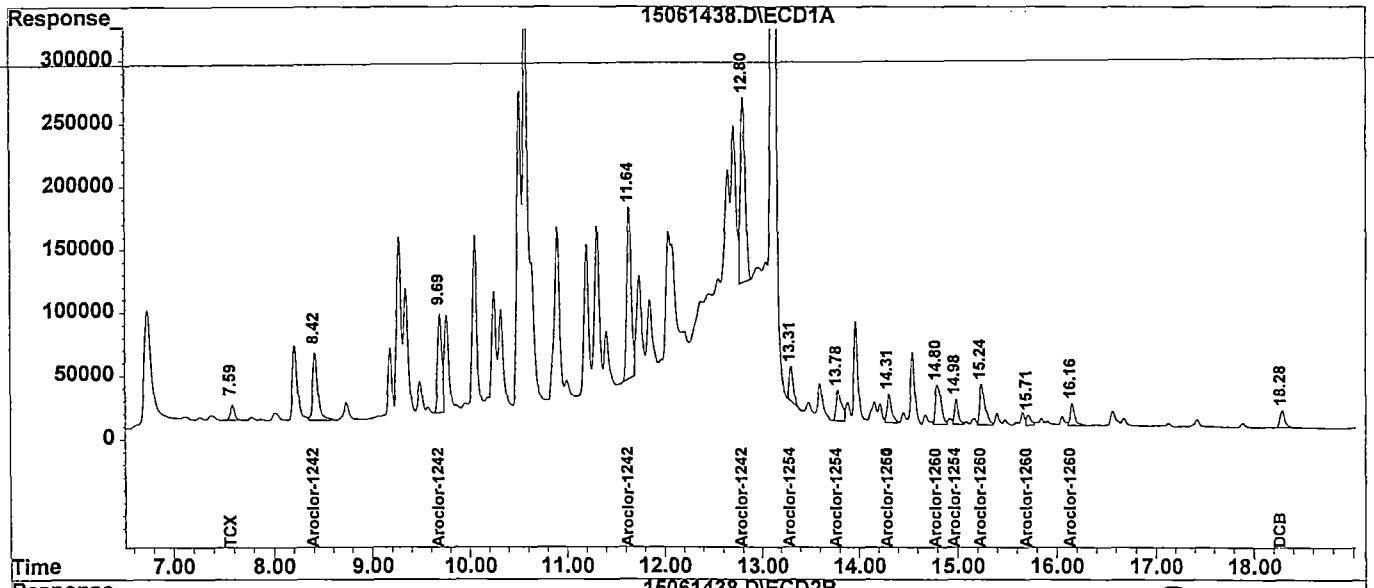
Chromatographic Report

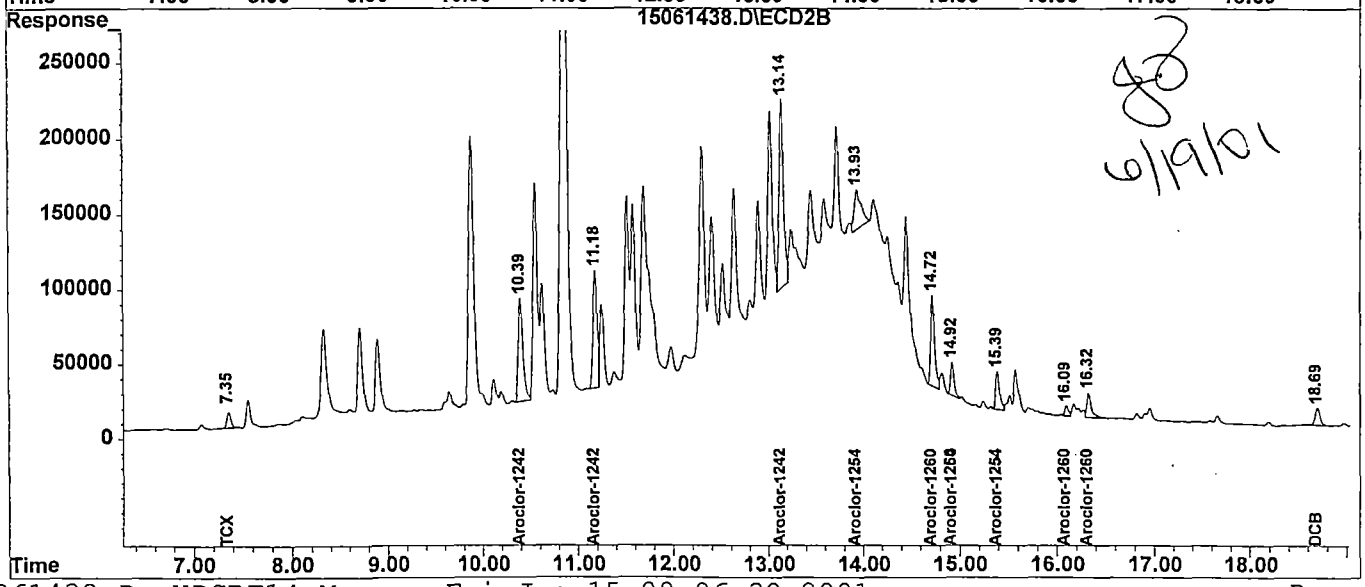
Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061438.D\ECD1A.CH Vial: 38
Acq On : 15 Jun 2001 8:14 Operator: DDC
Sample : 46702.16 *E00F8 * Inst : HP_15
Misc : *EPA*30G/5.0ML*66 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061438.D\ECD2B.CH Vial: 38
Acq On : 15 Jun 2001 8:14 Operator: DDC
Sample : 46702.16 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 15 9:05 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

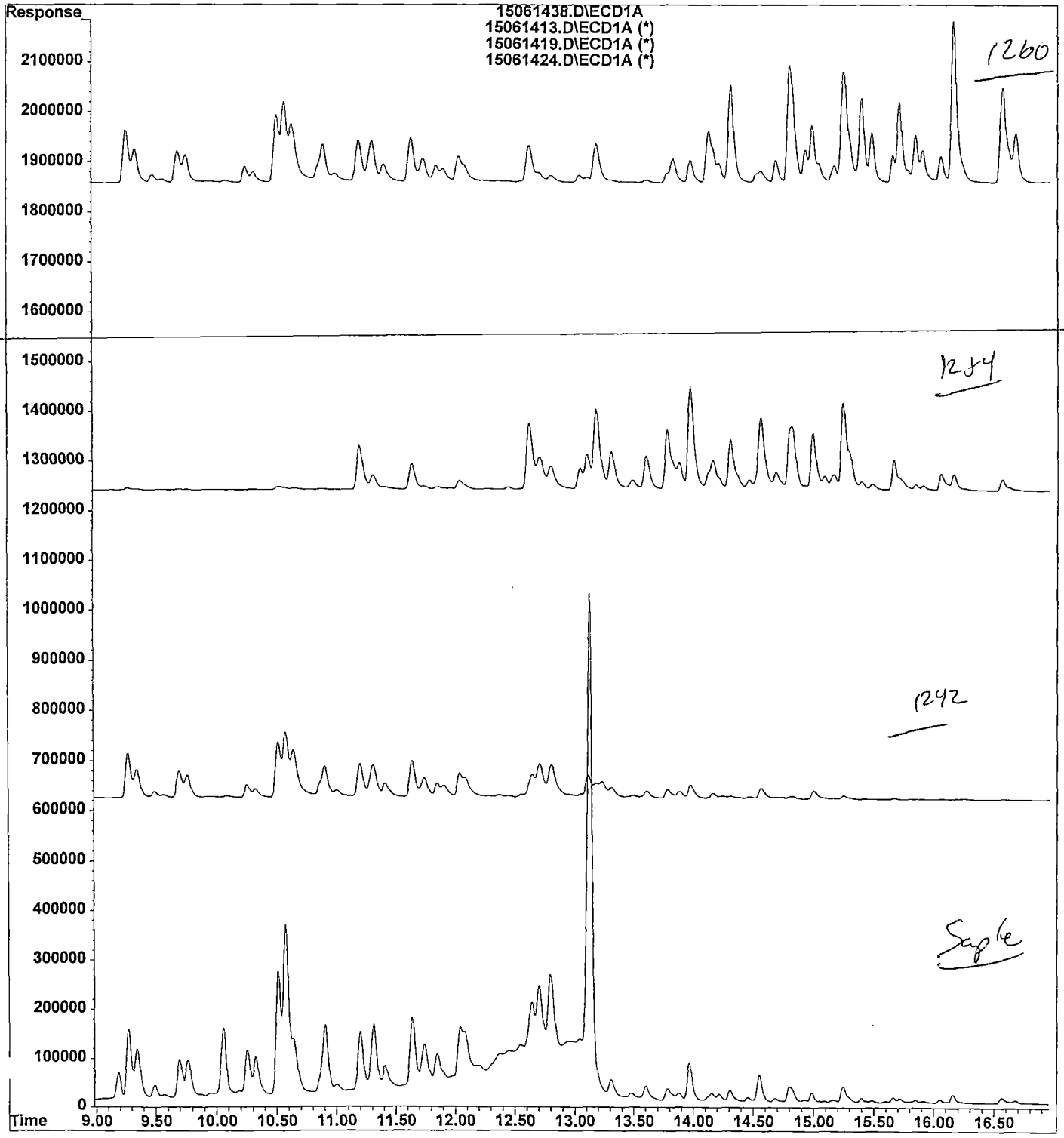
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/19/01

File : F:\HPCHEM\HP\15\DATA\06_14_01\15061438.D
Operator : DDC
Acquired : 15 Jun 2001 8:14 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46702.16
Misc Info :
Vial Number: 38



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00F8DL

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Matrix: (soil/water) SOIL Lab Sample ID: 46702.16DL

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

% Moisture: 66 decanted: (Y/N) __ Date Received: 06/07/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/07/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/16/01

Injection Volume: 0.5(uL) Dilution Factor: 20.0

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	1900	U ~~UJ~~
11104-28-2	Aroclor-1221	1900	U ~~UJ~~
11141-16-5	Aroclor-1232	1900	U ~~UJ~~
53469-21-9	Aroclor-1242	13000	DPJ ~~DPJ~~
12672-29-6	Aroclor-1248	1900	U ~~UJ~~
11097-69-1	Aroclor-1254	2400	DPJ ~~DPJ~~
11096-82-5	Aroclor-1260	520	DPJ ~~DPJ~~
Surrogate amount spiked		19.60	

TBS 7/7/01
TBS 7/13/01

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061523.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061523.D\ECD2B.CH
Acq On : 16 Jun 2001 17:08 Operator: DDC
Sample : 46702.16DL *E00F8DL * Inst : HP_15
Misc : *EPA*30G/5.0ML*66 Dilution: 20.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 18 9:33 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	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.60	7.36	34175	30513	26.7	25.8	
	Spiked Amount 19.608			Recovery	=	136.17%	131.58%	
~~22)~~	~~S DCB~~	~~18.29~~	~~18.70~~	~~42641~~	~~41164~~	~~32.3~~	~~34.1~~	
	Spiked Amount 19.608			Recovery	=	164.73%	173.91%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.43	10.40	244606	268734	8242.3	18697.6	#
8)	L4 Aroclor-1242 {2}	9.70	11.19	290888	201167	14568.6	8238.3	#
9)	L4 Aroclor-1242 {3}	10.65	12.41	399479	449285	7718.1	32700.9	E#
10)	L4 Aroclor-1242 {4}	11.65	0.00	586606	0	20019.9	N.D. d	#
11)	L4 Aroclor-1242 {5}	12.81	0.00	546128	0	13443.2	N.D. d	#
	Sum Aroclor-1242			2067707	919186	63992.1	59636.8	
	Average Aroclor-1242					12798.426	19878.933	
12)	L6 Aroclor-1254	12.65	0.00	382050	0	6454.2	N.D. d	#
13)	L6 Aroclor-1254 {2}	13.32	0.00	108526	0	2867.8	N.D. d	#
14)	L6 Aroclor-1254 {3}	13.80	13.94	158364	94447	3010.1	3571.6	
15)	L6 Aroclor-1254 {4}	14.32	14.93	146480	72469	3104.8	1920.0	#
16)	L6 Aroclor-1254 {5}	15.00	15.40	94434	75335	2379.5	1614.6	#
	Sum Aroclor-1254			889856	242251	17816.3	7106.3	
	Average Aroclor-1254					3563.268	2368.751	
17)	L7 Aroclor-1260	14.32	0.00	146480	0	1765.7	N.D. d	#
18)	L7 Aroclor-1260 {2}	14.81	0.00	216516	0	1941.0	N.D. d	#
19)	L7 Aroclor-1260 {3}	15.26	14.93	175800	72469	1652.4	836.1	#
20)	L7 Aroclor-1260 {4}	15.72	16.10	46849	16236	771.1	326.4	#
21)	L7 Aroclor-1260 {5}	0.00	16.33	0	48642	N.D. d	403.3	#
	Sum Aroclor-1260			585644	137347	120201.1	30702.8	
	Average Aroclor-1260					1532.564	521.947	

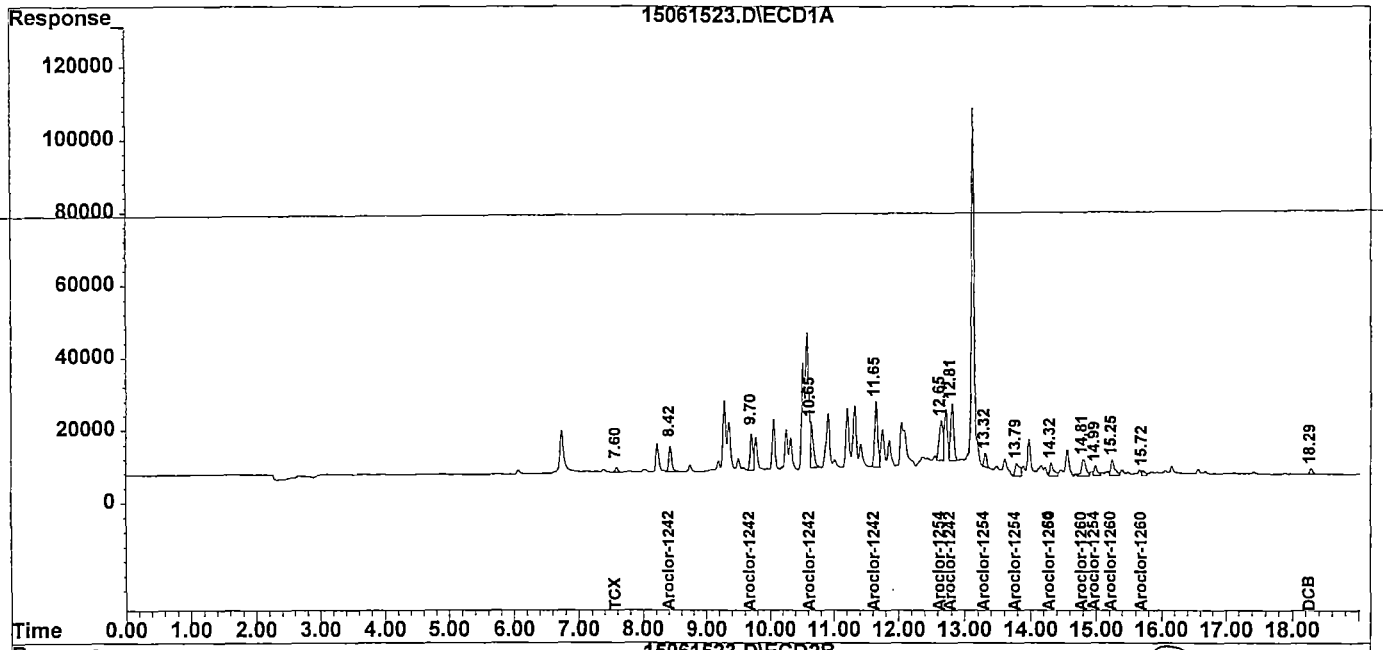
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

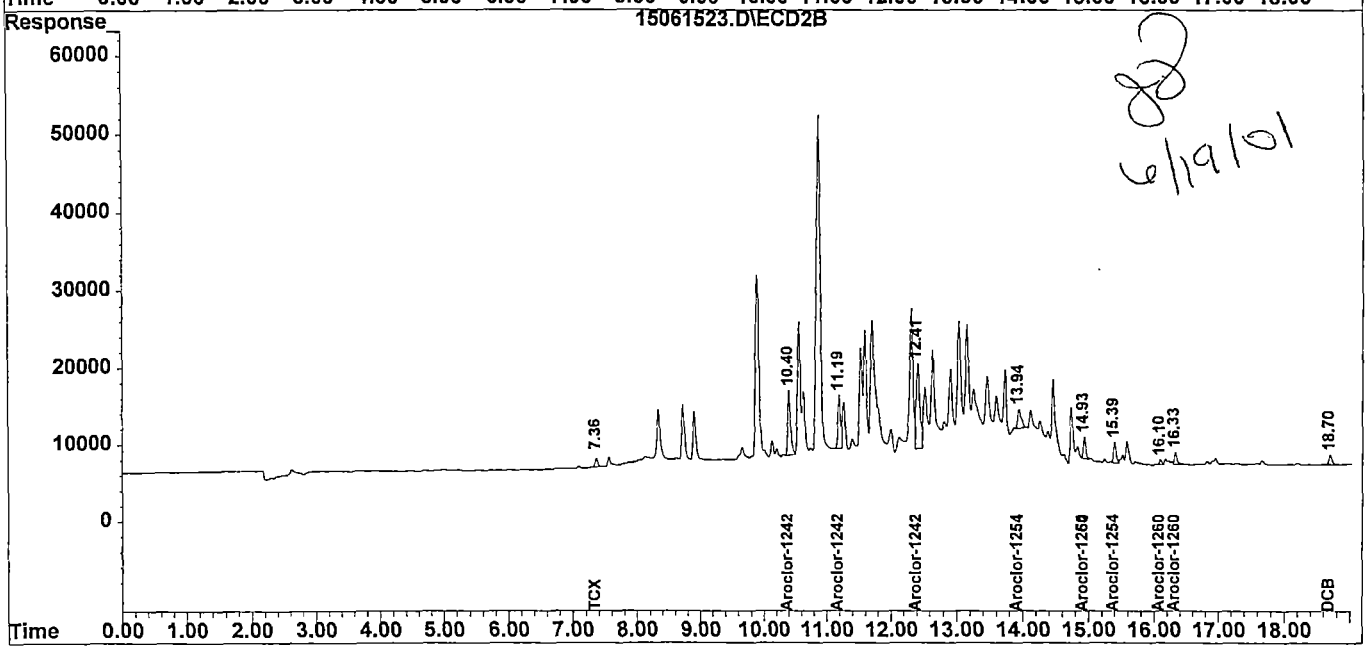
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061523.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061523.D\ECD2B.CH
Acq On : 16 Jun 2001 17:08 Operator: DDC
Sample : 46702.16DL *E00F8DL * Inst : HP_15
Misc : *EPA*30G/5.0ML*66 Dilution: 20.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 18 9:33 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





6/19/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00G0

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Matrix: (soil/water) SOIL Lab Sample ID: 46702.17

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

% Moisture: 63 decanted: (Y/N) __ Date Received: 06/07/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/07/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/15/01

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	88	U ~~UJ~~
11104-28-2	Aroclor-1221	88	U ~~UJ~~
11141-16-5	Aroclor-1232	88	U ~~UJ~~
53469-21-9	Aroclor-1242	12000 D ~~4600~~	~~12000 DJ~~
12672-29-6	Aroclor-1248	88	U ~~UJ~~
11097-69-1	Aroclor-1254	760 J ~~760~~	~~2400 DJ~~
11096-82-5	Aroclor-1260	300 J ~~300~~	~~1200 DJ~~
Surrogate amount spiked		17.90	

TBS 7/7/01 apply this TBS 7/13/01 results

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061439.D\ECD1A.CH Vial: 39
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061439.D\ECD2B.CH
Acq On : 15 Jun 2001 8:37 Operator: DDC
Sample : 46702.17 *E00G0 * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*63 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 9:11 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	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	305496	269697	10.9	10.4
	Spiked Amount 17.899			Recovery	=	60.90% DDC 6-15-01	58.10%
22)	S DCB	18.28	18.69	278248	639704	9.609m	24.2m DDC 6-15-01
	Spiked Amount 17.899			Recovery	=	53.69%	135.21%
	Target Compounds:						
7)	L4 Aroclor-1242	8.42	10.40	2074103	2274165	3189.9 E	7221.8 E#
8)	L4 Aroclor-1242 {2}	9.70	11.18	1708944	1646847	3906.4 E	3078.2 E
10)	L4 Aroclor-1242 {4}	11.64	0.00	3801275	0	5921.1 E	N.D. d #
11)	L4 Aroclor-1242 {5}	12.80	13.14	4927080	4146170	5535.5 E	8643.0 E#
	Sum Aroclor-1242			12511403	8067181	18553.0	18943.0
	Average Aroclor-1242					4638.255	6314.328
13)	L6 Aroclor-1254 {2}	13.31	0.00	947882	0	1143.2	N.D. d #
14)	L6 Aroclor-1254 {3}	13.79	13.93	752853	1475486	653.1	2546.7 E#
15)	L6 Aroclor-1254 {4}	14.31	14.92	889267	740411	860.3	895.4
16)	L6 Aroclor-1254 {5}	14.99	15.39	321654	759080	369.9	742.5 #
	Sum Aroclor-1254			2911656	2974977	3026.5	4184.6
	Average Aroclor-1254					756.635	1394.852
17)	L7 Aroclor-1260	14.31	0.00	889267	0	489.3	N.D. d #
18)	L7 Aroclor-1260 {2}	14.80	0.00	1394863	0	570.7	N.D. d #
19)	L7 Aroclor-1260 {3}	15.25	14.92	1153737	740411	494.9	389.9
20)	L7 Aroclor-1260 {4}	15.72	16.09	321308	251316	241.4	230.6
21)	L7 Aroclor-1260 {5}	16.16	16.32	1338742	710216	505.5	268.8 #
	Sum Aroclor-1260			5097917	1701943	2060.0	795.8
	Average Aroclor-1260					460.369	296.425

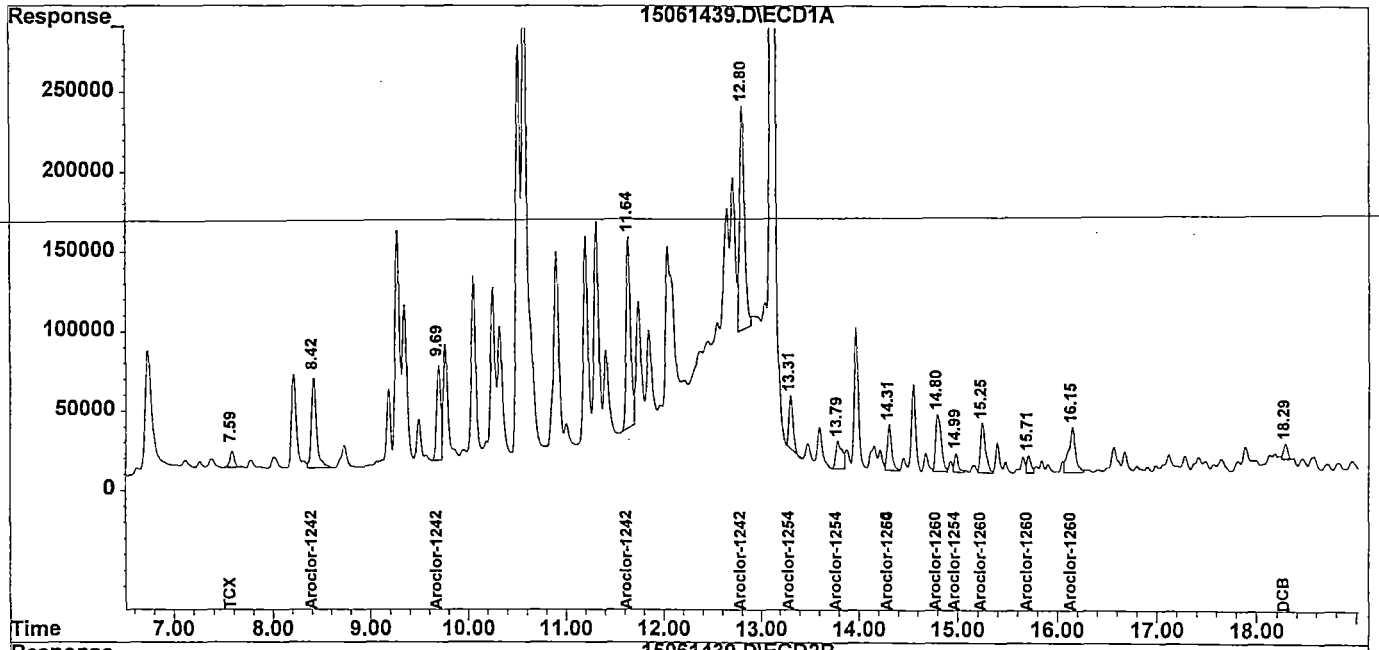
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

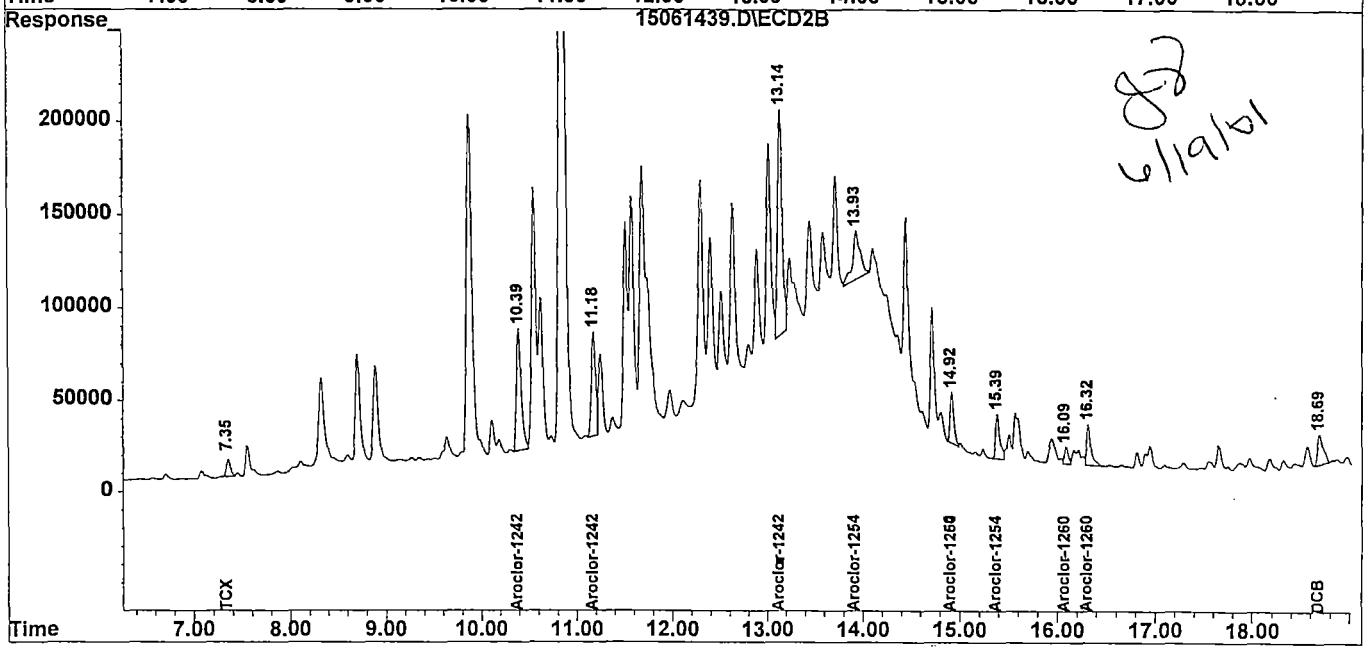
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061439.D\ECD1A.CH Vial: 39
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061439.D\ECD2B.CH
Acq On : 15 Jun 2001 8:37 Operator: DDC
Sample : 46702.17 *E00G0 * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*63 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 9:11 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

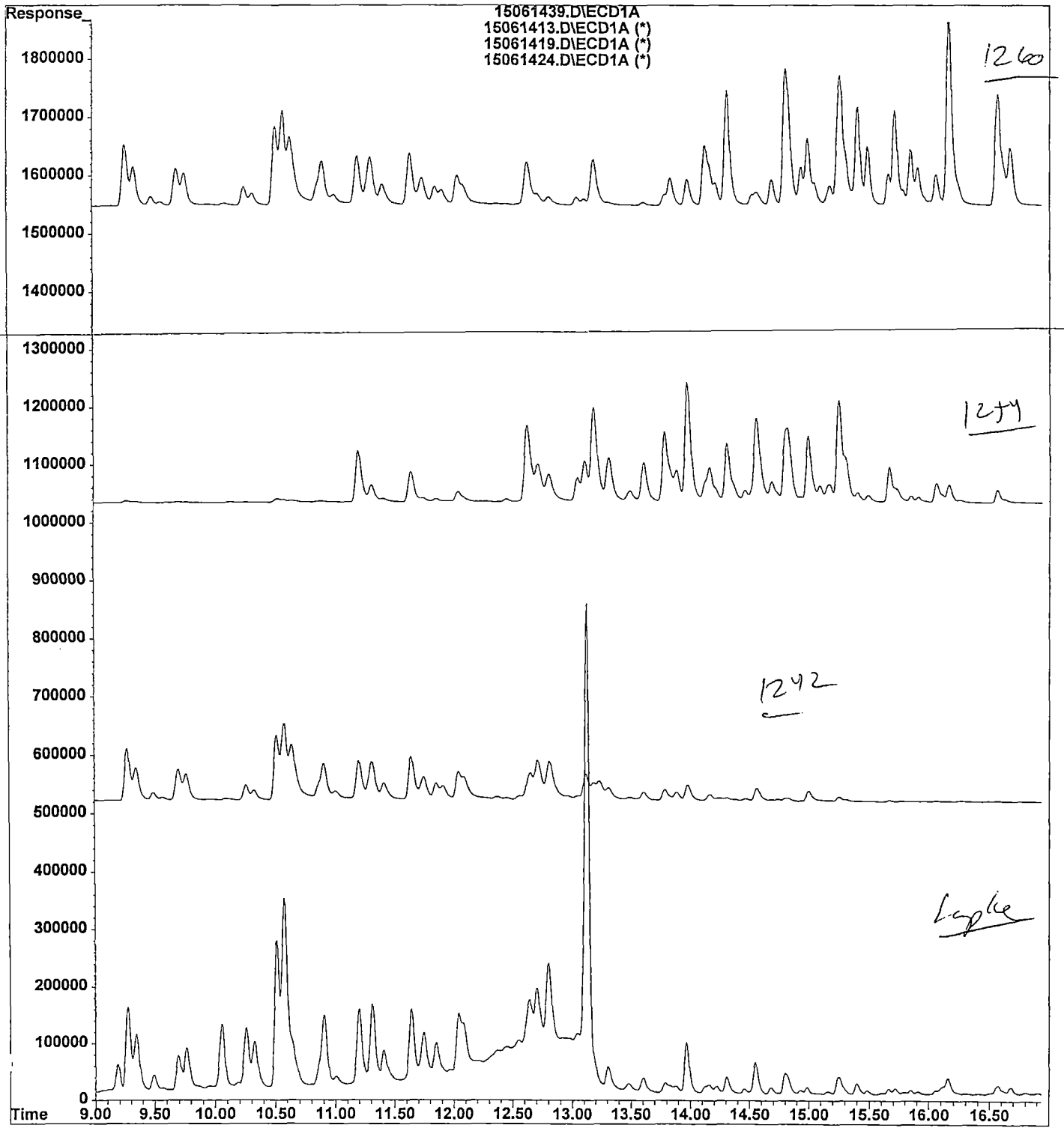
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





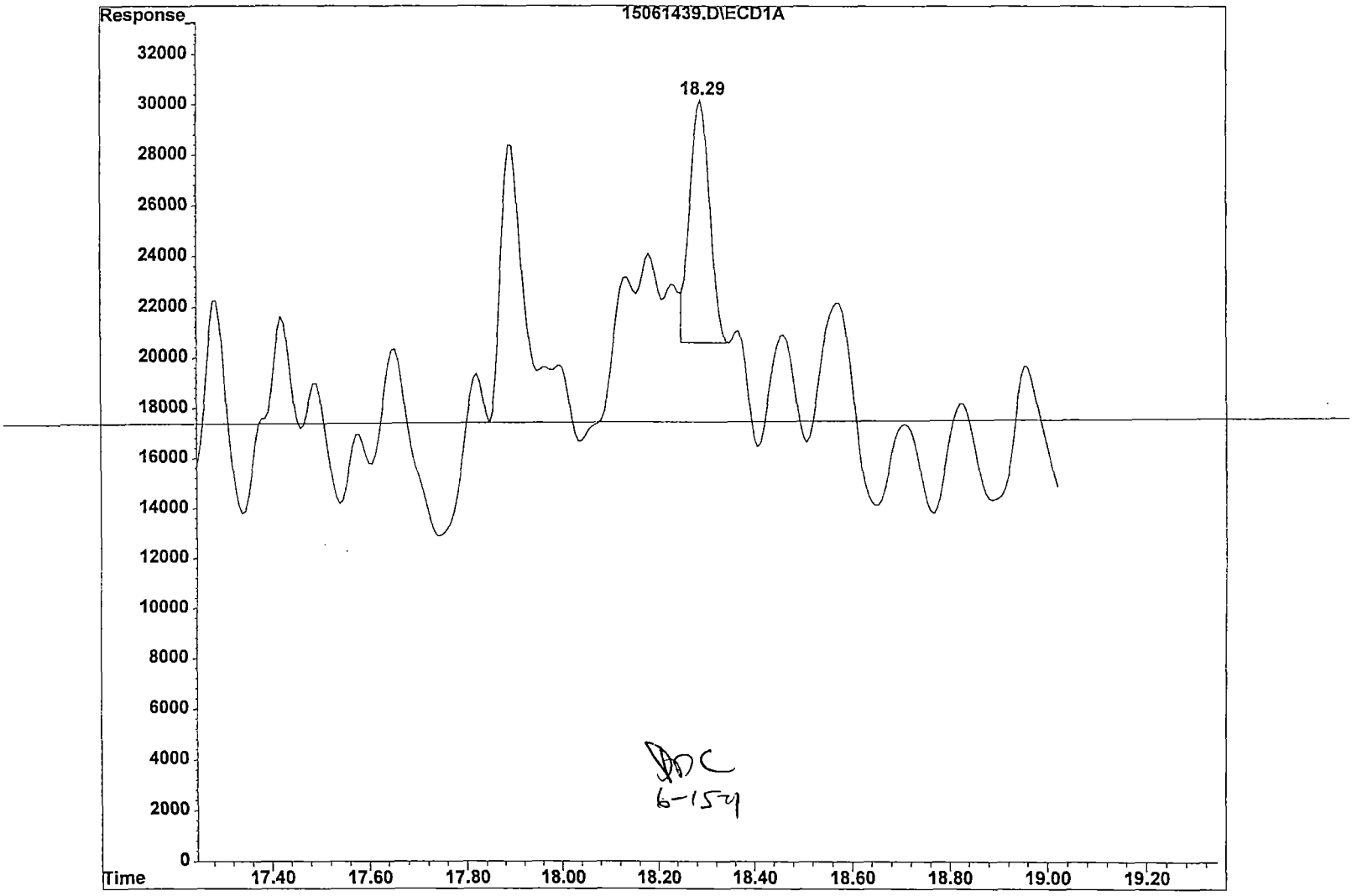
6/19/01

File : F:\HPCHEM\HP\15\DATA\06_14_01\15061439.D
Operator : DDC
Acquired : 15 Jun 2001 8:37 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46702.17
Misc Info :
Vial Number: 39



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_14_01\15061439.D
Date Acquired: 15 Jun 2001 8:37
Inst: HP_15 Operator ID: DDC
Name: 46702.17 *E00G0 *
Misc: *EPA*30.2G/5.0ML*63
Method: F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 15 9:11 2001 Quant Results File: XPCBF14.RES



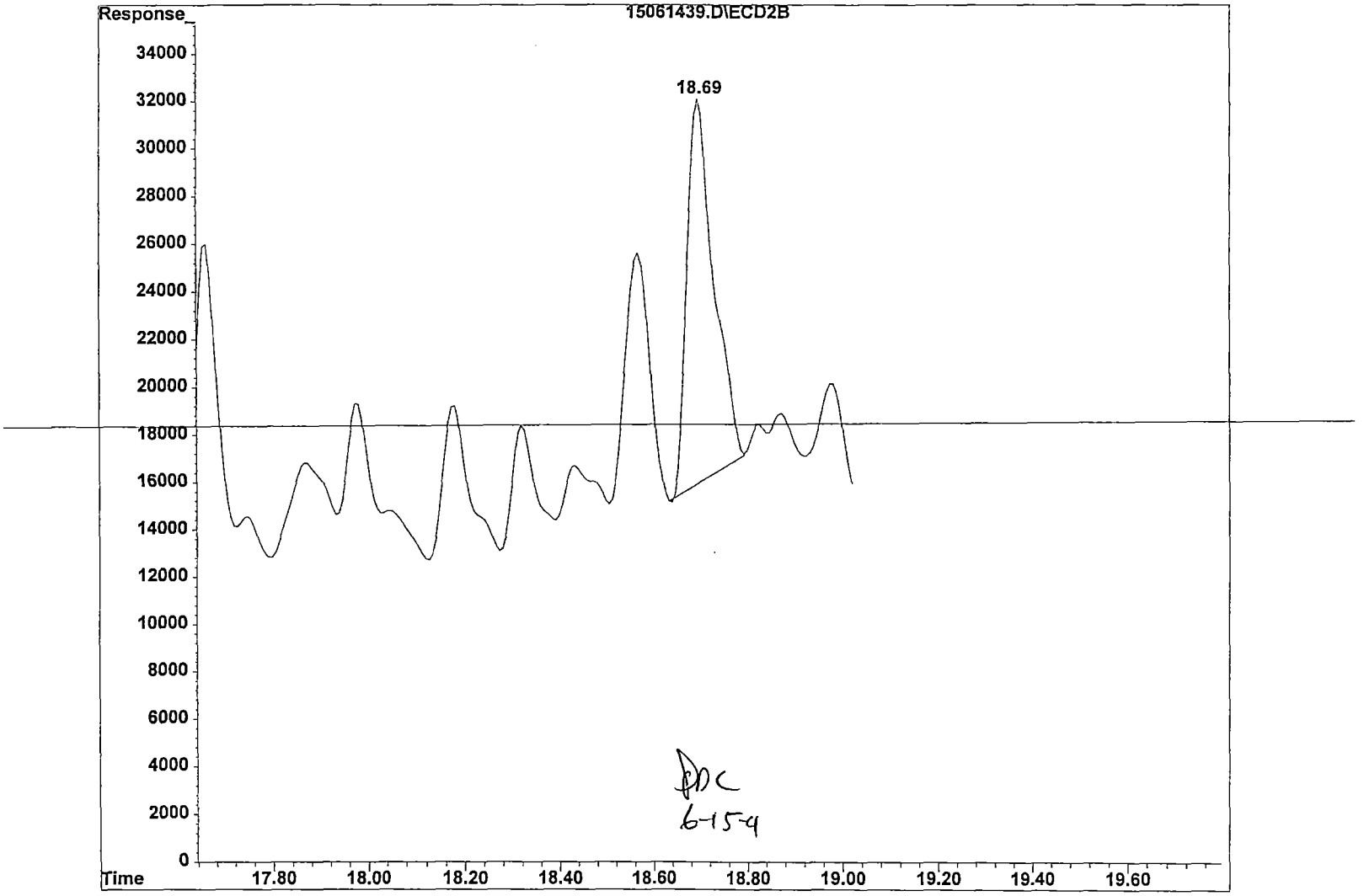
DCB 18.29min area: 278248 m

Integration Time Range: 18.25 - 18.34

F:\HPCHEM\HP\15\DATA\06_14_01\15061439.D
Report generated: Fri Jun 15 09:11:24 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_14_01\15061439.D
Date Acquired: 15 Jun 2001 8:37
Inst: HP_15 Operator ID: DDC
Name: 46702.17 *E00G0 *
Misc: *EPA*30.2G/5.0ML*63
Method: F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 15 9:11 2001 Quant Results File: XPCBF14.RES



DCB #2 18.69min area: 639704 m

Integration Time Range: 18.64 - 18.79

F:\HPCHEM\HP\15\DATA\06_14_01\15061439.D
Report generated: Fri Jun 15 09:11:25 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00G0DL

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Matrix: (soil/water) SOIL Lab Sample ID: 46702.17DL

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

% Moisture: 63 decanted: (Y/N) __ Date Received: 06/07/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/07/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/16/01

Injection Volume: 0.5(uL) Dilution Factor: 20.0

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	1800	U ~~UJ~~
11104-28-2	Aroclor-1221	1800	U ~~UJ~~
11141-16-5	Aroclor-1232	1800	U ~~UJ~~
53469-21-9	Aroclor-1242	12000	D ~~DJ~~
12672-29-6	Aroclor-1248	1800	U ~~UJ~~
11097-69-1	Aroclor-1254	2400	DJ ~~DJ~~
11096-82-5	Aroclor-1260	1200	DJ ~~DJ~~
	Surrogate amount spiked	17.90	

TBS 7/7/01
TBS 7/13/01

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061525.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061525.D\ECD2B.CH
Acq On : 16 Jun 2001 17:55 Operator: DDC
Sample : 46702.17DL *E00G0DL * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*63 Dilution: 20.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 18 9:36 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	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.60	7.36	32164	27926	23.0	21.6	
	Spiked Amount 17.899			Recovery	=	128.50%	120.68%	
~~22)~~	~~S DCB~~	~~18.29~~	~~18.70~~	~~33992~~	~~64435~~	~~23.5m~~	~~48.7m~~	~~#~~
	Spiked Amount 17.899			Recovery	=	131.29%	272.09%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.43	10.40	274389	263886	8440.0	16759.9	#
8)	L4 Aroclor-1242 {2}	9.71	11.19	219935	129173	10054.9	4828.8	#
10)	L4 Aroclor-1242 {4}	11.65	0.00	502658	0	15659.6	N.D. d	#
11)	L4 Aroclor-1242 {5}	12.81	13.15	551718	524922	12397.0	21884.7	#
	Sum Aroclor-1242			1548701	917980	46551.5	43473.4	
	Average Aroclor-1242					11637.875	14491.144	
12)	L6 Aroclor-1254	12.65	0.00	350584	0	5406.4	N.D. d	#
13)	L6 Aroclor-1254 {2}	13.32	0.00	143594	0	3463.7	N.D. d	#
14)	L6 Aroclor-1254 {3}	13.80	13.94	71592	99295	1242.2	3427.6	#
15)	L6 Aroclor-1254 {4}	14.32	14.93	170372	88373	3296.4	2137.3	#
16)	L6 Aroclor-1254 {5}	15.00	15.40	48127	81719	1106.9	1598.8	#
	Sum Aroclor-1254			784269	269387	14515.6	7163.7	
	Average Aroclor-1254					2903.116	2387.914	
17)	L7 Aroclor-1260	14.32	0.00	170372	0	1874.7	N.D. d	#
18)	L7 Aroclor-1260 {2}	14.81	14.73	199946	219713	1636.2	2738.1	#
19)	L7 Aroclor-1260 {3}	15.26	14.93	133968	88373	1149.4	930.7	
20)	L7 Aroclor-1260 {4}	15.72	16.10	36142	28309	543.0	519.5	
21)	L7 Aroclor-1260 {5}	0.00	16.33	0	72156	N.D. d	546.2	#
	Sum Aroclor-1260			540428	408551	93134.4	84741.4	
	Average Aroclor-1260					1300.854	1183.625	

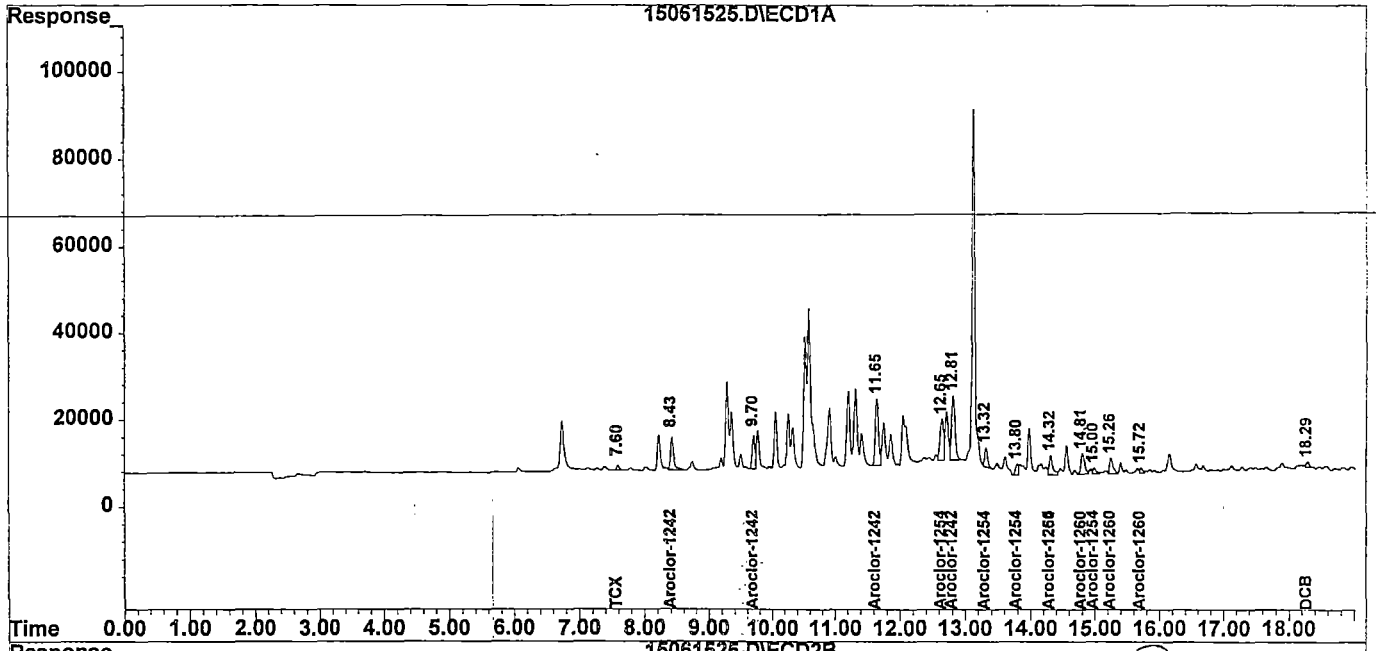
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

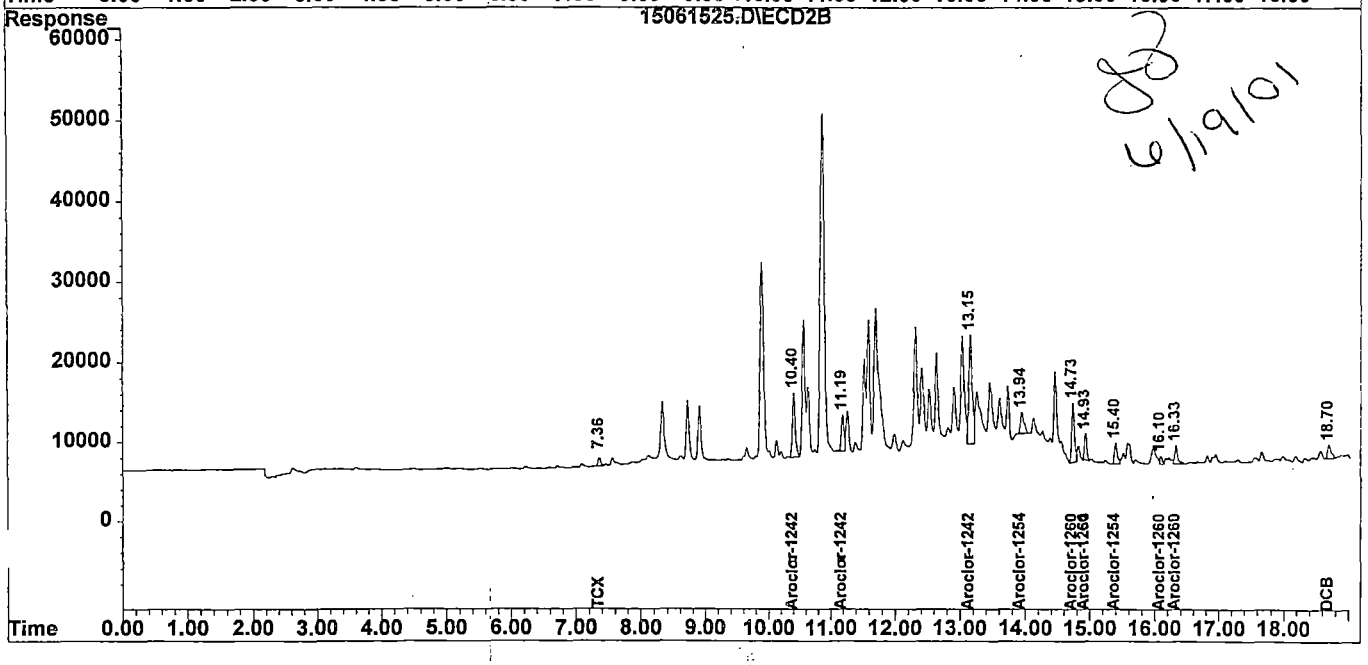
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061525.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061525.D\ECD2B.CH
Acq On : 16 Jun 2001 17:55 Operator: DDC
Sample : 46702.17DL *E00G0DL * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*63 Dilution: 20.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 18 9:36 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

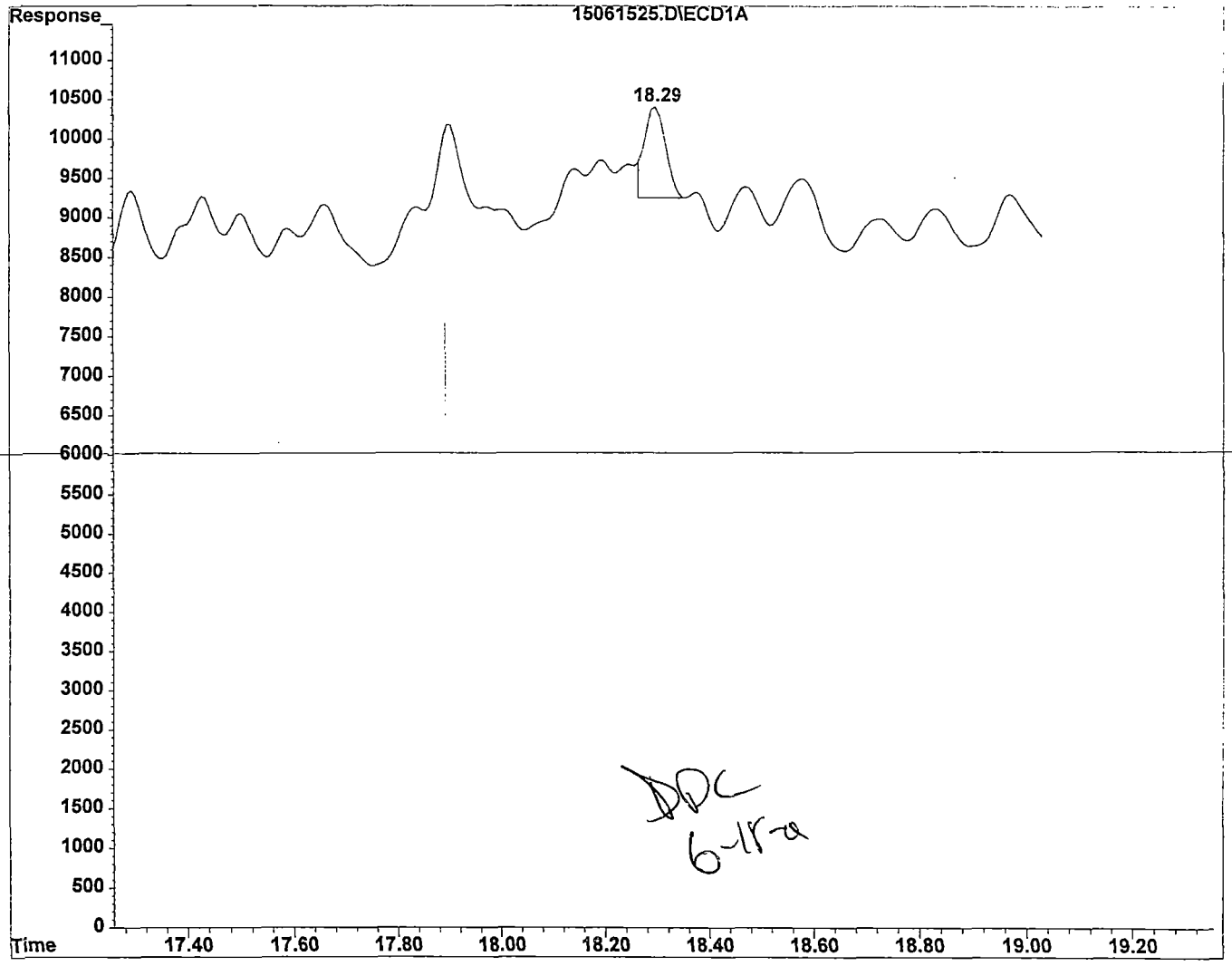




6/19/01

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_14_01\15061525.D
Date Acquired: 16 Jun 2001 17:55
Inst: HP_15 Operator ID: DDC
Name: 46702.17DL *E00G0DL *
Misc: *EPA*30.2G/5.0ML*63
Method: F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 18 9:36 2001 Quant Results File: XPCBF14.RES



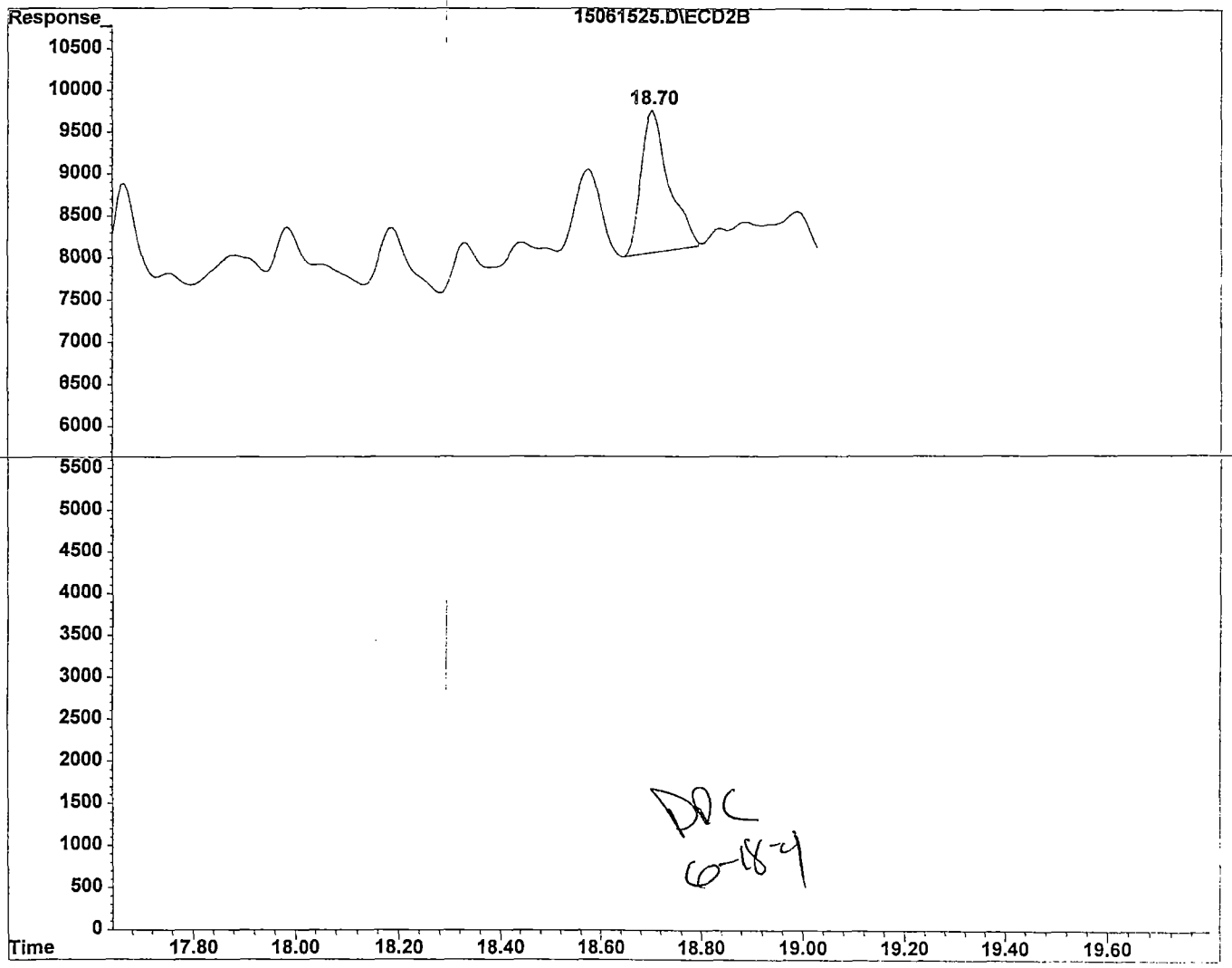
DCB 18.29min area: 33992 m

Integration Time Range: 18.26 - 18.35

F:\HPCHEM\HP\15\DATA\06_14_01\15061525.D
Report generated: Mon Jun 18 09:56:24 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_14_01\15061525.D
Date Acquired: 16 Jun 2001 17:55
Inst: HP_15 Operator ID: DDC
Name: 46702.17DL *E00G0DL *
Misc: *EPA*30.2G/5.0ML*63
Method: F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 18 9:36 2001 Quant Results File: XPCBF14.RES



DDC
6-18-01

DCB #2 18.70min area: 64435 m

Integration Time Range: 18.64 - 18.80

F:\HPCHEM\HP\15\DATA\06_14_01\15061525.D
Report generated: Mon Jun 18 09:56:24 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00G1

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Matrix: (soil/water) SOIL Lab Sample ID: 46702.18

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

% Moisture: 59 decanted: (Y/N) __ Date Received: 06/07/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/07/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/15/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	80	U ~~UJ~~
11104-28-2	Aroclor-1221	80	U ~~UJ~~
11141-16-5	Aroclor-1232	80	U ~~UJ~~
53469-21-9	Aroclor-1242	~~14000~~	40000D ~~EPJ~~ ~~DJ~~
12672-29-6	Aroclor-1248	80	U ~~UJ~~
11097-69-1	Aroclor-1254	~~2900~~	7200DP ~~EJ~~
11096-82-5	Aroclor-1260	~~1400~~	~~3200DP~~ ~~EJ~~ 3200DP
Surrogate amount spiked		16.10	

TBS 7/7/01
apply this results
TBS 7/13/01

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061440.D\ECD1A.CH Vial: 40
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061440.D\ECD2B.CH
Acq On : 15 Jun 2001 9:01 Operator: DDC
Sample : 46702.18 *E00G1 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*59 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 10:30 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	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.36	335157	327048	10.8	11.4
	Spiked Amount 16.099			Recovery	=	67.08%	70.81%
~~22)~~	~~S DCB~~	~~18.28~~	~~18.69~~	~~555512~~	~~347000~~	~~17.3m~~ DDC 6-15-01	~~11.8 #~~
	Spiked Amount 16.099			Recovery	=	107.46%	73.30%
	Target Compounds:						
7)	L4 Aroclor-1242	8.42	10.40	8210718	11195697	11358.2 E	31978.5 E#
10)	L4 Aroclor-1242 {4}	11.64	12.63	11268111	14783646	15787.4 E	38758.0 E#
11)	L4 Aroclor-1242 {5}	12.80	13.14	15248921	10772029	15409.6 E	20197.4 E#
	Sum Aroclor-1242			34727750	36751372	42555.1	90934.0
	Average Aroclor-1242					14185.049	30311.318
12)	L6 Aroclor-1254	12.63	0.00	9143292	0	6341.1 E	N.D. d #
13)	L6 Aroclor-1254 {2}	13.31	0.00	2689325	0	2917.4 E	N.D. d # DDC 6-15-01
14)	L6 Aroclor-1254 {3}	13.79	13.93	1480409	3207956	1155.2	4980.2mE#
15)	L6 Aroclor-1254 {4}	14.31	14.93	3548375	2599912	3087.7 E	2827.9 E
16)	L6 Aroclor-1254 {5}	14.99	15.39	1142908	3001410	1182.2	2640.8 E#
	Sum Aroclor-1254			18004309	8809277	14683.6	10448.9
	Average Aroclor-1254					2936.721	3482.974
17)	L7 Aroclor-1260	14.31	0.00	3548375	0	1756.0 E	N.D. d #
18)	L7 Aroclor-1260 {2}	14.81	14.73	4958422	6585462	1824.8 E	3690.9 E#
19)	L7 Aroclor-1260 {3}	15.25	14.93	4737641	2599912	1828.1 E	1231.4 E#
20)	L7 Aroclor-1260 {4}	15.72	16.10	1088164	816791	735.3	674.1
21)	L7 Aroclor-1260 {5}	16.16	16.33	3101635	2617799	1053.5	891.2
	Sum Aroclor-1260			17434236	12619964	5793.8	5222.2
	Average Aroclor-1260					1439.534	1621.894

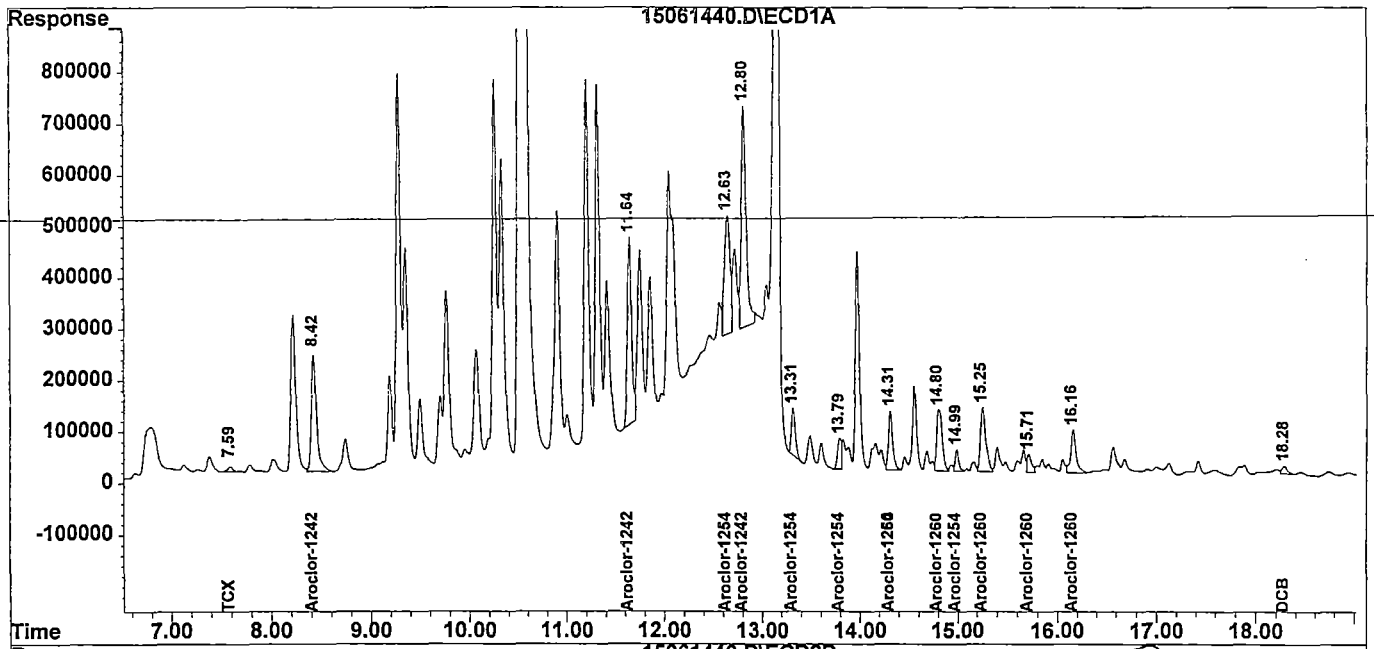
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

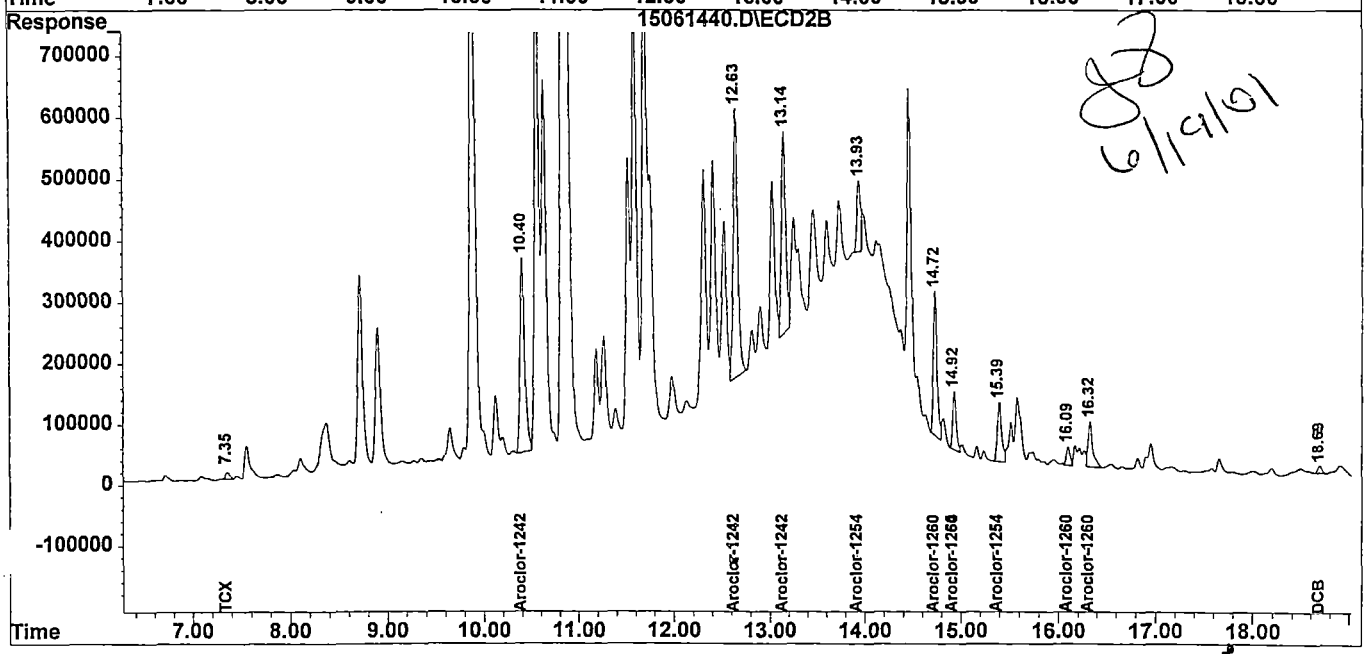
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061440.D\ECD1A.CH Vial: 40
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061440.D\ECD2B.CH
Acq On : 15 Jun 2001 9:01 Operator: DDC
Sample : 46702.18 *E00G1 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*59 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 10:30 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

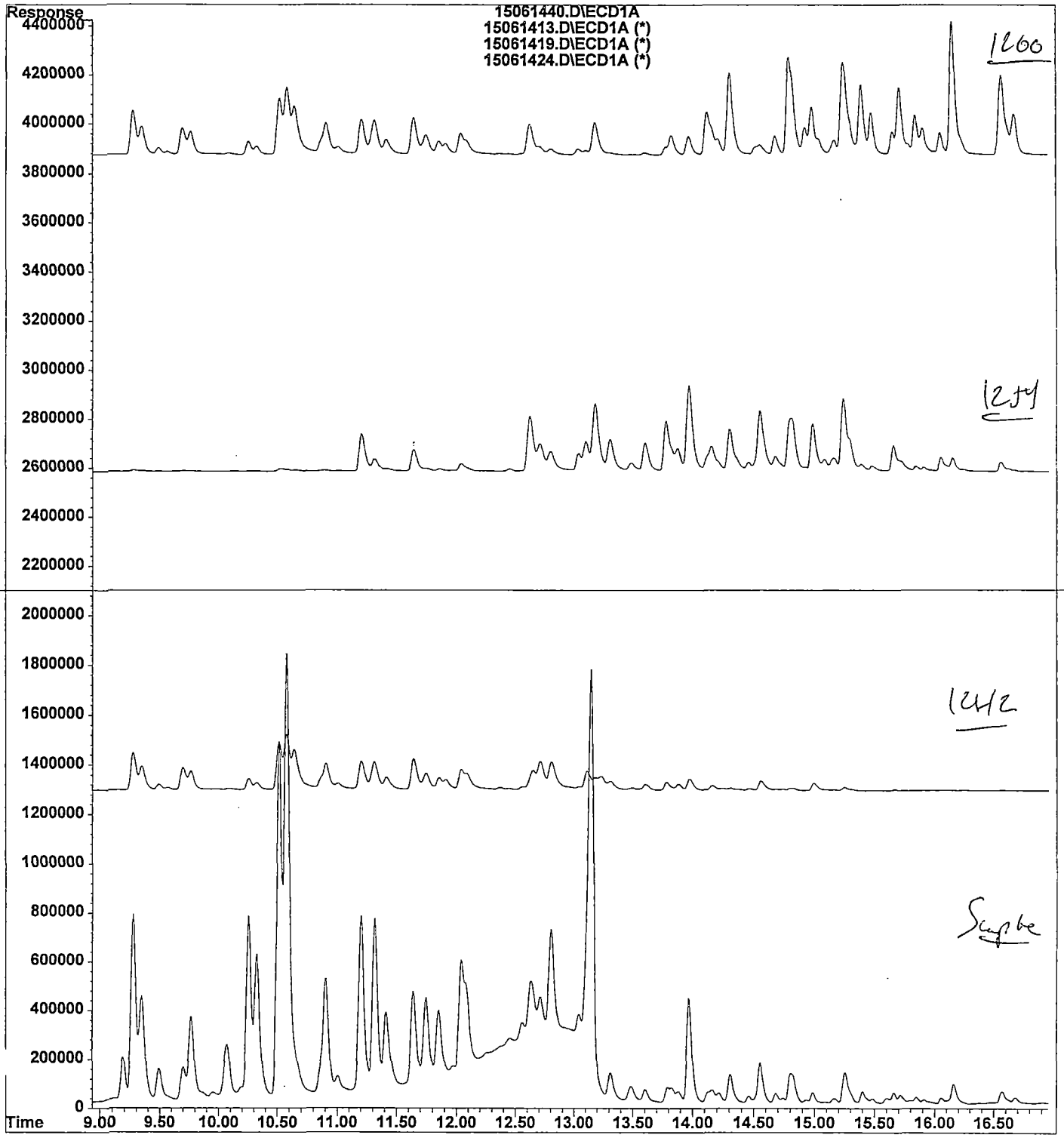
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





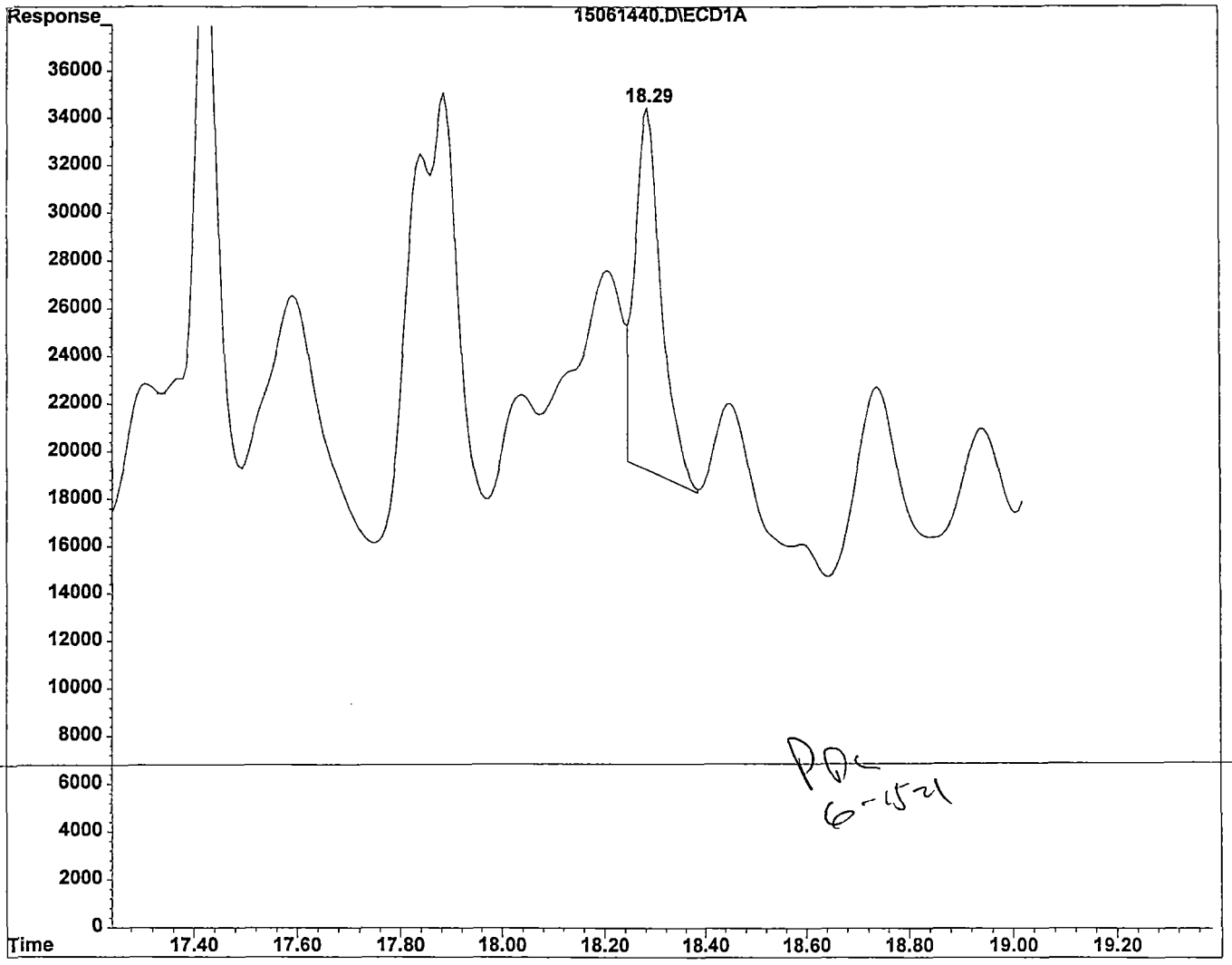
6/19/01

File : F:\HPCHEM\HP\15\DATA\06_14_01\15061440.D
Operator : DDC
Acquired : 15 Jun 2001 9:01 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46702.18
Misc Info :
Vial Number: 40



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_14_01\15061440.D
Date Acquired: 15 Jun 2001 9:01
Inst: HP_15 Operator ID: DDC
Name: 46702.18 *E00G1 *
Misc: *EPA*30.3G/5.0ML*59
Method: F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 15 10:30 2001 Quant Results File: XPCBF14.RES



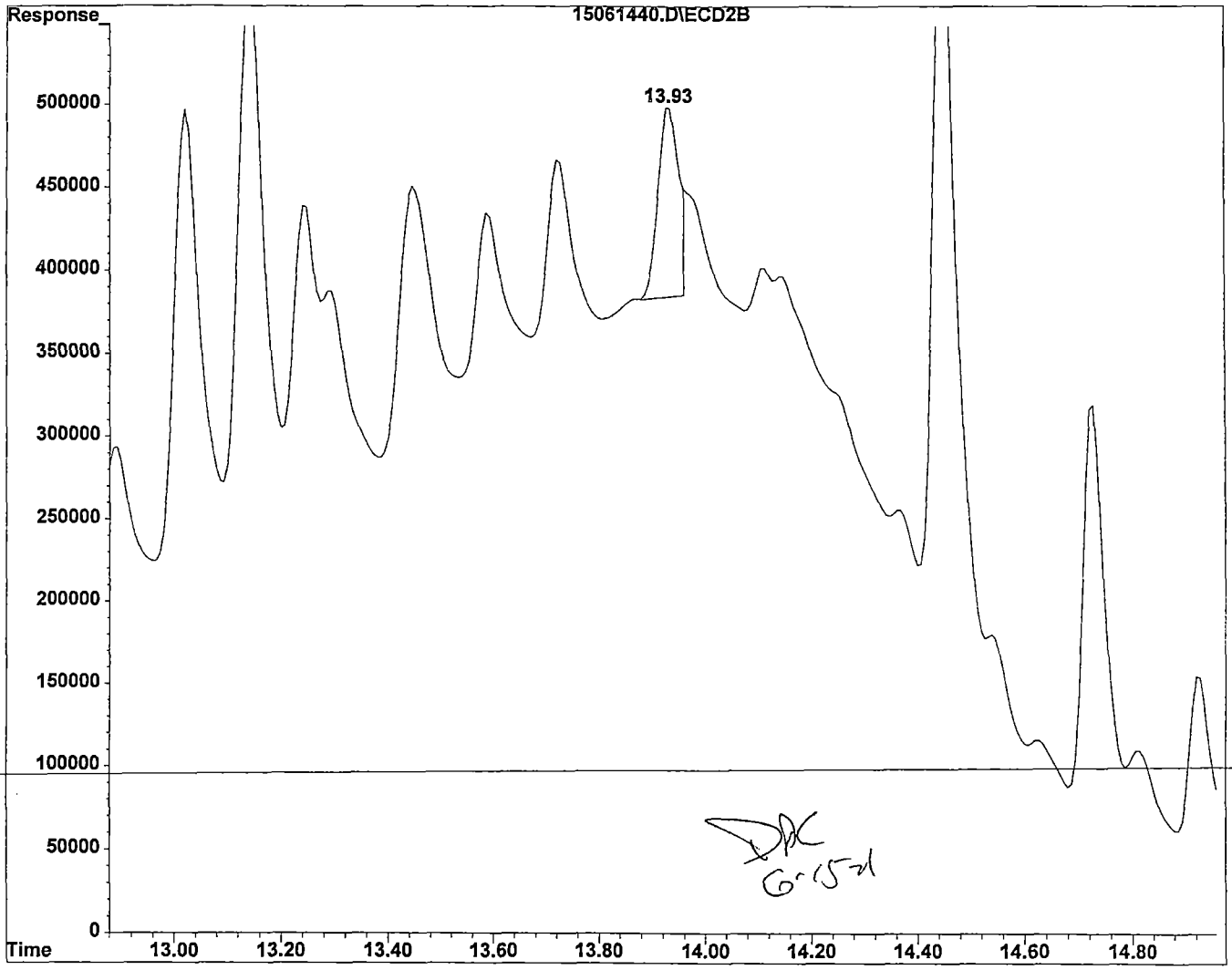
DCB 18.28min area: 555512 m

Integration Time Range: 18.25 - 18.39

F:\HPCHEM\HP\15\DATA\06_14_01\15061440.D
Report generated: Fri Jun 15 10:30:34 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_14_01\15061440.D
Date Acquired: 15 Jun 2001 9:01
Inst: HP_15 Operator ID: DDC
Name: 46702.18 *E00G1 *
Misc: *EPA*30.3G/5.0ML*59
Method: F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 15 10:30 2001 Quant Results File: XPCBF14.RES



Aroclor-1254 {3} #2 13.93min area: 3207956 m

Integration Time Range: 13.88 - 13.96

F:\HPCHEM\HP\15\DATA\06_14_01\15061440.D
Report generated: Fri Jun 15 10:30:35 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00G1DL

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Matrix: (soil/water) SOIL Lab Sample ID: 46702.18DL

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

% Moisture: 59 decanted: (Y/N) __ Date Received: 06/07/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/07/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/16/01

Injection Volume: 0.5(uL) Dilution Factor: 50.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	4000	U ~~UJ~~
11104-28-2	Aroclor-1221	4000	U ~~UJ~~
11141-16-5	Aroclor-1232	4000	U ~~UJ~~
53469-21-9	Aroclor-1242	40000	DJ ~~DJ~~
12672-29-6	Aroclor-1248	4000	U ~~UJ~~
11097-69-1	Aroclor-1254	7200	DPJ ~~DP~~ ~~J~~
11096-82-5	Aroclor-1260	3200	DPU ~~DUP~~ ~~J~~
Surrogate amount spiked		16.10	

TBS 7/7/01

TBS 7/13/01

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061527.D\ECD1A.CH Vial: 27
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061527.D\ECD2B.CH
Acq On : 16 Jun 2001 18:42 Operator: DDC
Sample : 46702.18DL *E00G1DL * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*59 Dilution: 50.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 18 9:38 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	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.60	7.36	18413	18269	29.5	31.7	
	Spiked Amount 16.099			Recovery	=	183.24% DRC 6-18-01	196.90% DRC 6-18-01	
22)	S DCB	18.28	18.68	60413	53928	93.8m	91.6m	
	Spiked Amount 16.099			Recovery	=	582.64%	568.97%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.43	10.40	573953	678822	39698.5	96946.8	E#
8)	L4 Aroclor-1242 {2}	9.71	11.19	247196	132549	25412.5	11142.1	#
10)	L4 Aroclor-1242 {4}	11.65	0.00	776072	0	54366.4	N.D. d	#
11)	L4 Aroclor-1242 {5}	12.81	13.15	783968	640867	39611.4	60080.9	#
	Sum Aroclor-1242			2381188	1452238	159088.8	168169.8	
	Average Aroclor-1242					39772.201	56056.615	
13)	L6 Aroclor-1254 {2}	13.32	0.00	194721	0	10561.7	N.D. d	#
14)	L6 Aroclor-1254 {3}	13.80	13.94	69608	269924	2715.8	20952.2	#
15)	L6 Aroclor-1254 {4}	14.32	14.93	267943	163439	11657.7	8888.5	
16)	L6 Aroclor-1254 {5}	15.00	15.40	72172	156417	3732.8	6881.3	#
	Sum Aroclor-1254			604443	589781	28667.9	36722.1	
	Average Aroclor-1254					7166.977	12240.689	
17)	L7 Aroclor-1260	14.32	0.00	267943	0	6629.9	N.D. d	#
18)	L7 Aroclor-1260 {2}	14.81	0.00	334422	0	6153.8	N.D. d	#
19)	L7 Aroclor-1260 {3}	15.26	14.93	283805	163439	5475.5	3870.6	#
20)	L7 Aroclor-1260 {4}	0.00	16.10	0	68648	N.D. d	2832.6	#
21)	L7 Aroclor-1260 {5}	0.00	16.33	0	172575	N.D. d	2937.4	#
	Sum Aroclor-1260			886169	404662	734894.8	388016.2	
	Average Aroclor-1260					6086.399	3213.550	

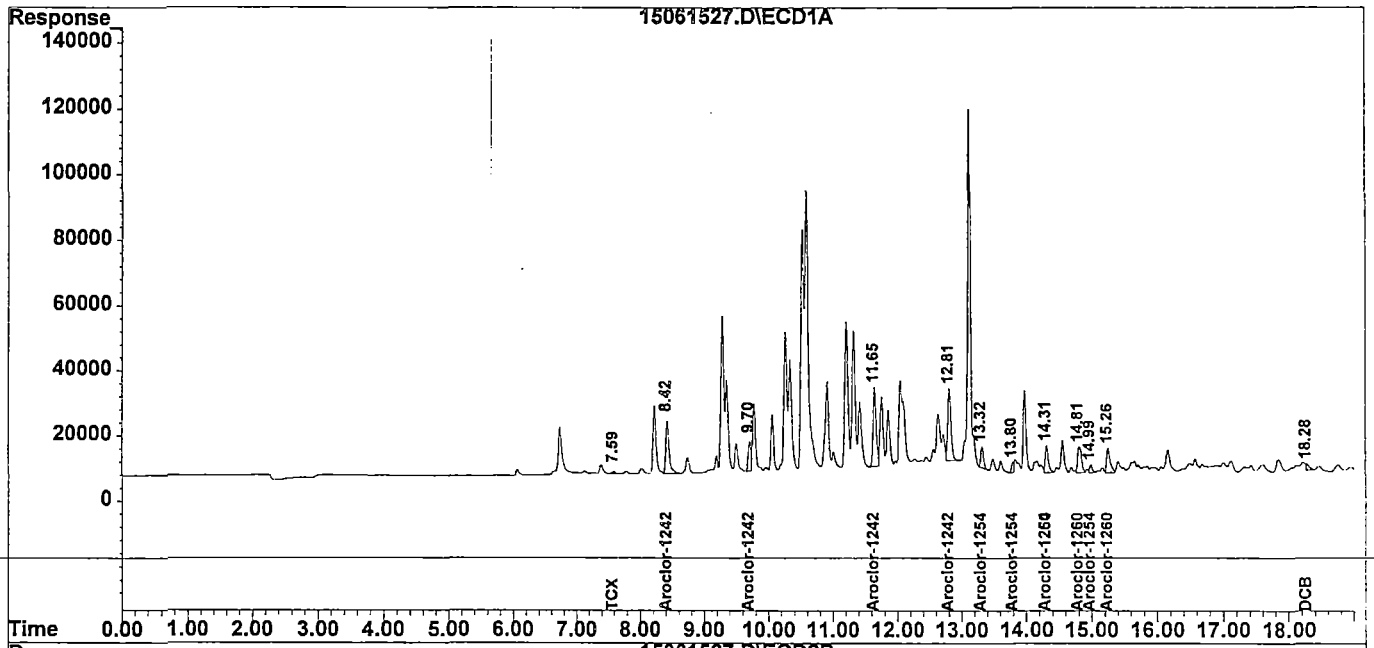
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

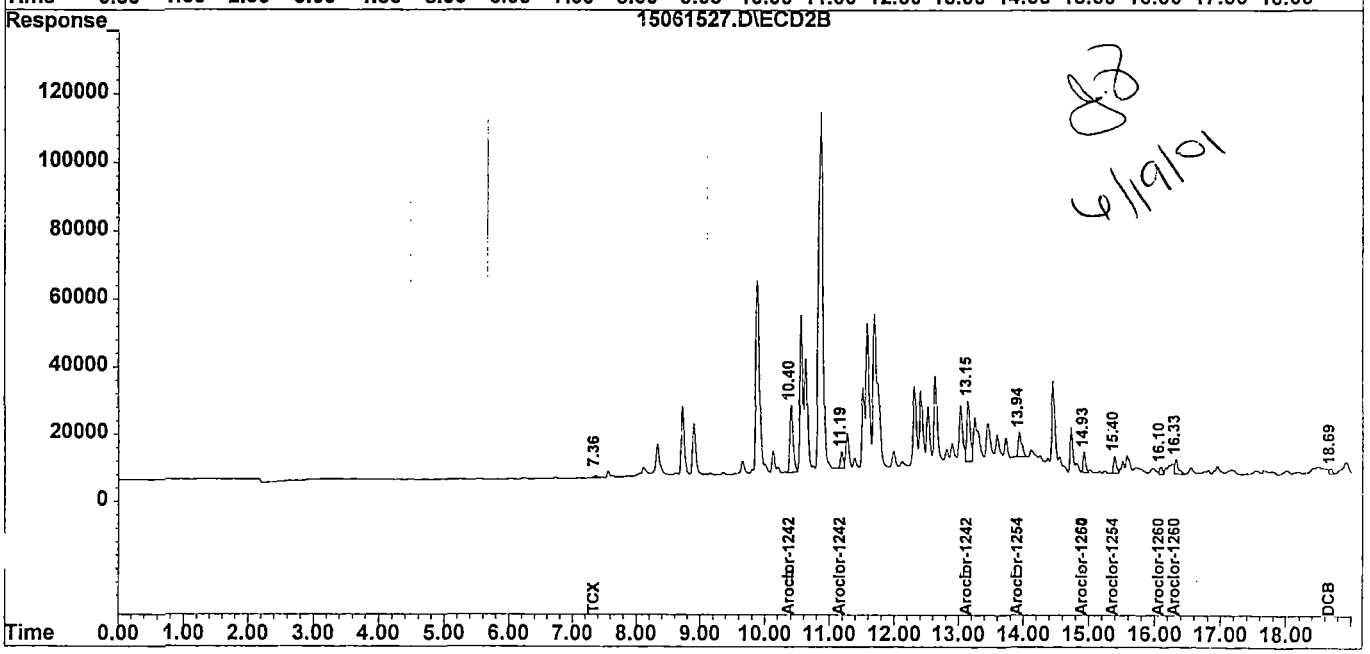
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061527.D\ECD1A.CH Vial: 27
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061527.D\ECD2B.CH
Acq On : 16 Jun 2001 18:42 Operator: DDC
Sample : 46702.18DL *E00G1DL * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*59 Dilution: 50.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 18 9:38 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

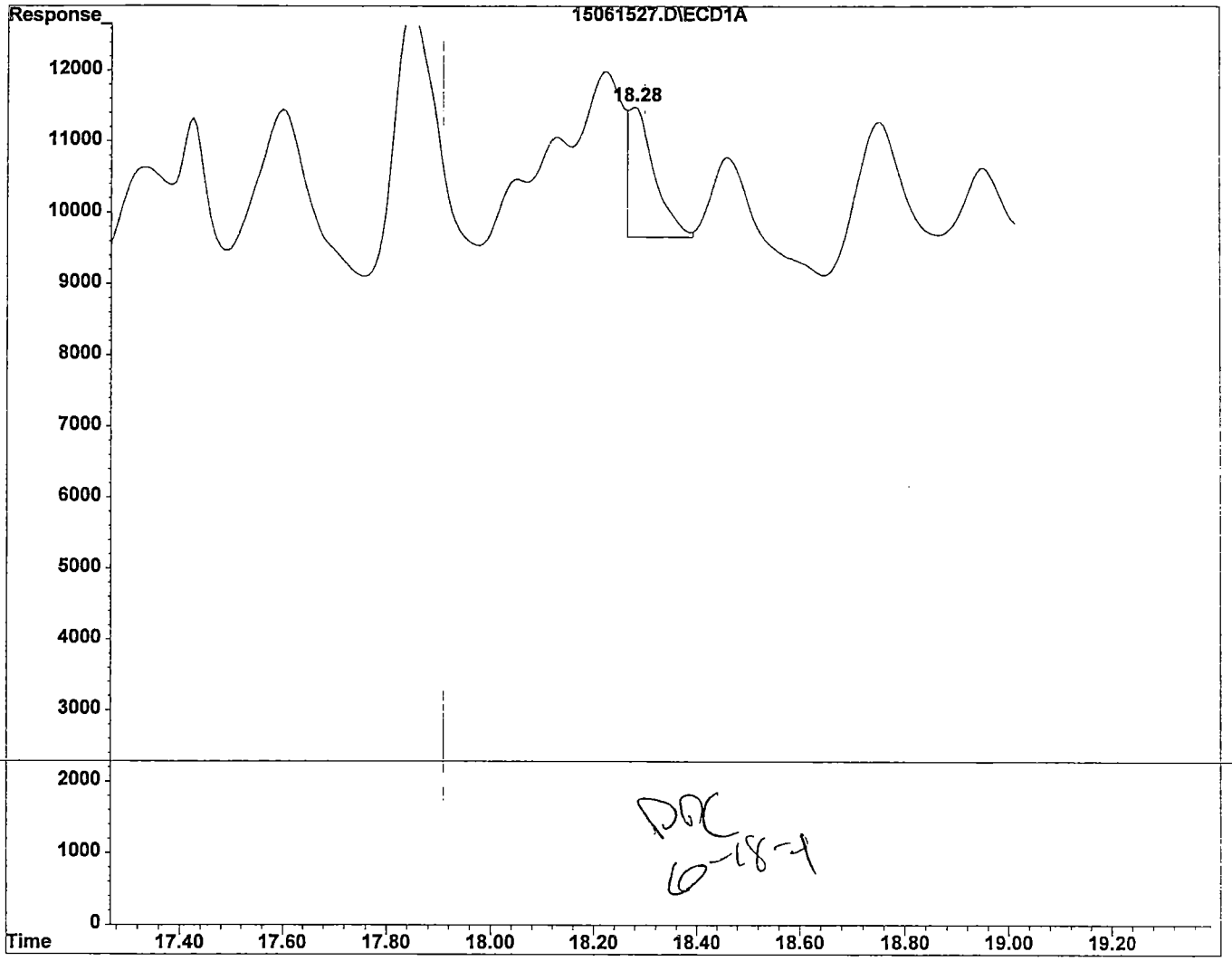




DB 6/19/01

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_14_01\15061527.D
Date Acquired: 16 Jun 2001 18:42
Inst: HP_15 Operator ID: DDC
Name: 46702.18DL *E00G1DL *
Misc: *EPA*30.3G/5.0ML*59
Method: F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 18 9:38 2001 Quant Results File: XPCBF14.RES



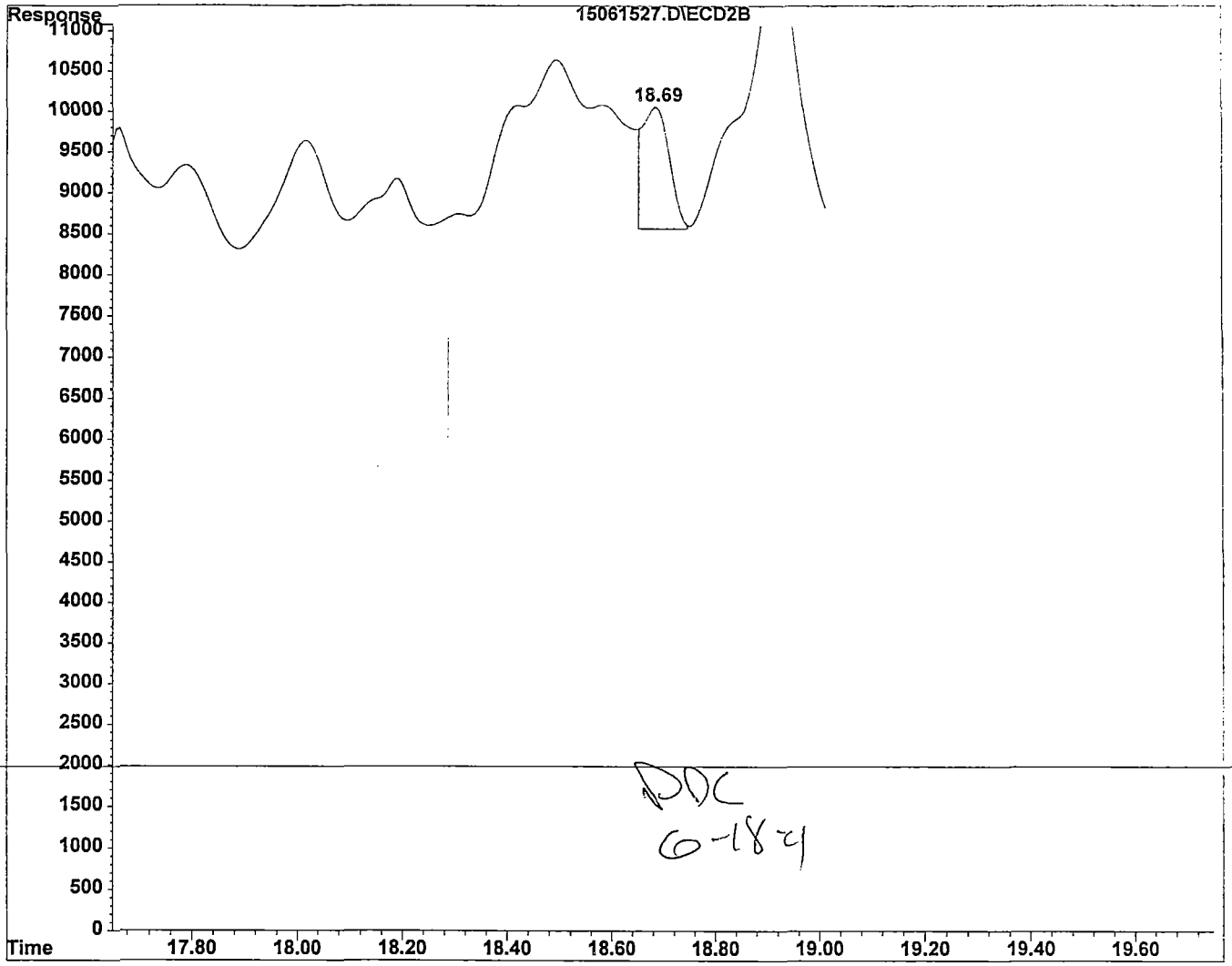
DCB 18.28min area: 60413 m

Integration Time Range: 18.27 - 18.39

F:\HPCHEM\HP\15\DATA\06_14_01\15061527.D
Report generated: Mon Jun 18 09:56:26 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_14_01\15061527.D
Date Acquired: 16 Jun 2001 18:42
Inst: HP_15 Operator ID: DDC
Name: 46702.18DL *E00G1DL *
Misc: *EPA*30.3G/5.0ML*59
Method: F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 18 9:38 2001 Quant Results File: XPCBF14.RES



DDC
6-18-01

DCB #2 18.69min area: 53928 m

Integration Time Range: 18.65 - 18.75

F:\HPCHEM\HP\15\DATA\06_14_01\15061527.D
Report generated: Mon Jun 18 09:56:27 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00G2

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Matrix: (soil/water) SOIL Lab Sample ID: 46702.19

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

% Moisture: 24 decanted: (Y/N) __ Date Received: 06/07/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/07/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/15/01

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 ~~UJ~~
11104-28-2	Aroclor-1221	43	U ~~UJ~~
11141-16-5	Aroclor-1232	43	U ~~UJ~~
53469-21-9	Aroclor-1242	120	P ~~PJ~~
12672-29-6	Aroclor-1248	43	U ~~UJ~~
11097-69-1	Aroclor-1254	46	~~J~~
11096-82-5	Aroclor-1260	29	J
Surrogate amount spiked		8.69	

TBS 7/7/01
TBS 7/13/01

FORM I PCB

Quantitation Report

Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061447.D\ECD1A.CH Vial: 47
Acq On : 15 Jun 2001 11:43 Operator: DDC
Sample : 46702.19 *E00G2 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*24 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061447.D\ECD2B.CH Vial: 47
Acq On : 15 Jun 2001 11:43 Operator: DDC
Sample : 46702.19 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 15 13:28 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	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.36	407848	398981	7.061	7.477
	Spiked Amount 8.685			Recovery	=	81.30%	86.09%
22)	S DCB	18.29	18.69	520032	474190	8.714	8.691
	Spiked Amount 8.685			Recovery	=	100.33%	100.07%
	Target Compounds:						
7)	L4 Aroclor-1242	8.42	0.00	80992	0	60.4	N.D. d #
8)	L4 Aroclor-1242 {2}	9.70	11.18	86249	183924	95.7	166.8 #
~~9)~~	~~L4 Aroclor-1242 {3}~~	~~0.00~~	~~12.40~~	~~0~~	~~130175~~	~~N.D. d~~	~~209.8 #~~
10)	L4 Aroclor-1242 {4}	11.64	12.64	203138	127713	153.5	180.6
11)	L4 Aroclor-1242 {5}	12.80	0.00	287946	0	157.0	N.D. d #
	Sum Aroclor-1242			658324	441813	466.6	557.3
	Average Aroclor-1242					116.656	185.759
12)	L6 Aroclor-1254	12.64	0.00	143077	0	53.5	N.D. d #
13)	L6 Aroclor-1254 {2}	13.31	0.00	54521	0	31.9	N.D. d #
14)	L6 Aroclor-1254 {3}	13.79	13.93	117073	61129	49.3	51.2
15)	L6 Aroclor-1254 {4}	14.31	14.92	119700	89490	56.2	52.5
16)	L6 Aroclor-1254 {5}	14.99	15.39	68952	90482	38.5	42.9
	Sum Aroclor-1254			503322	241101	229.4	146.7
	Average Aroclor-1254					45.878	48.885
17)	L7 Aroclor-1260	14.31	0.00	119700	0	32.0	N.D. d #
18)	L7 Aroclor-1260 {2}	14.80	14.72	190212	239422	37.8	72.4 #
19)	L7 Aroclor-1260 {3}	15.25	14.92	192622	89490	40.1	22.9 #
20)	L7 Aroclor-1260 {4}	15.72	16.09	42985	18465	15.7	8.221 #
21)	L7 Aroclor-1260 {5}	16.16	16.32	105201	67543	19.3	12.4 #
	Sum Aroclor-1260			650719	414921	62.9	50.3
	Average Aroclor-1260					28.953	28.971

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

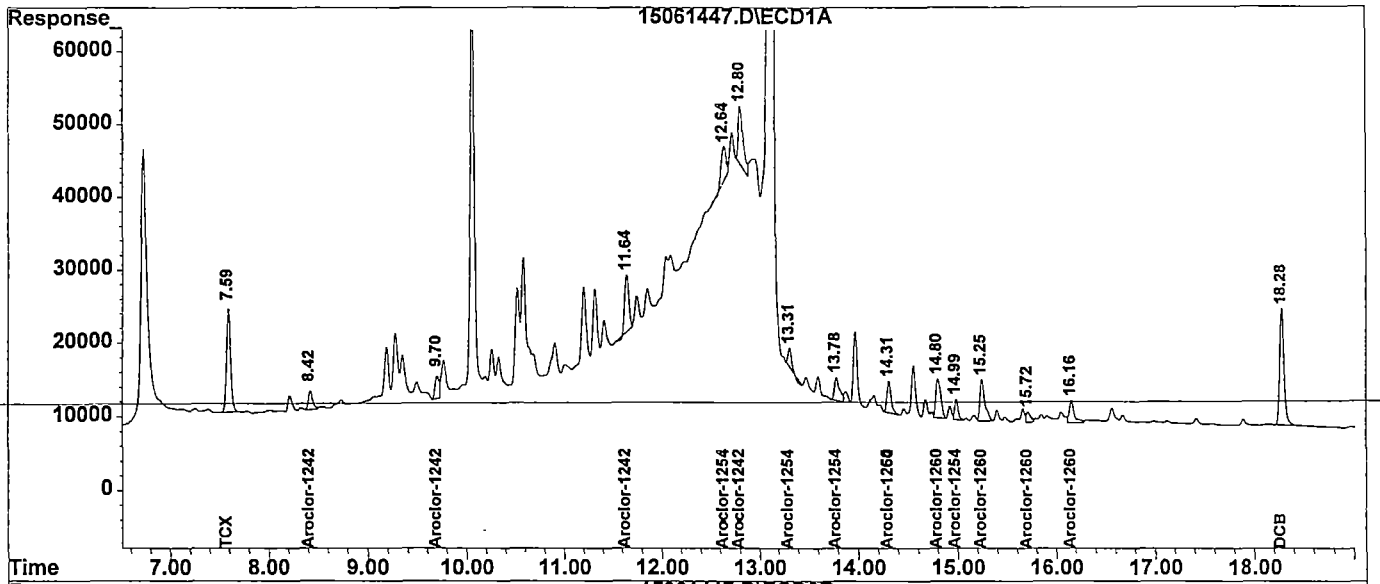
Chromatographic Report

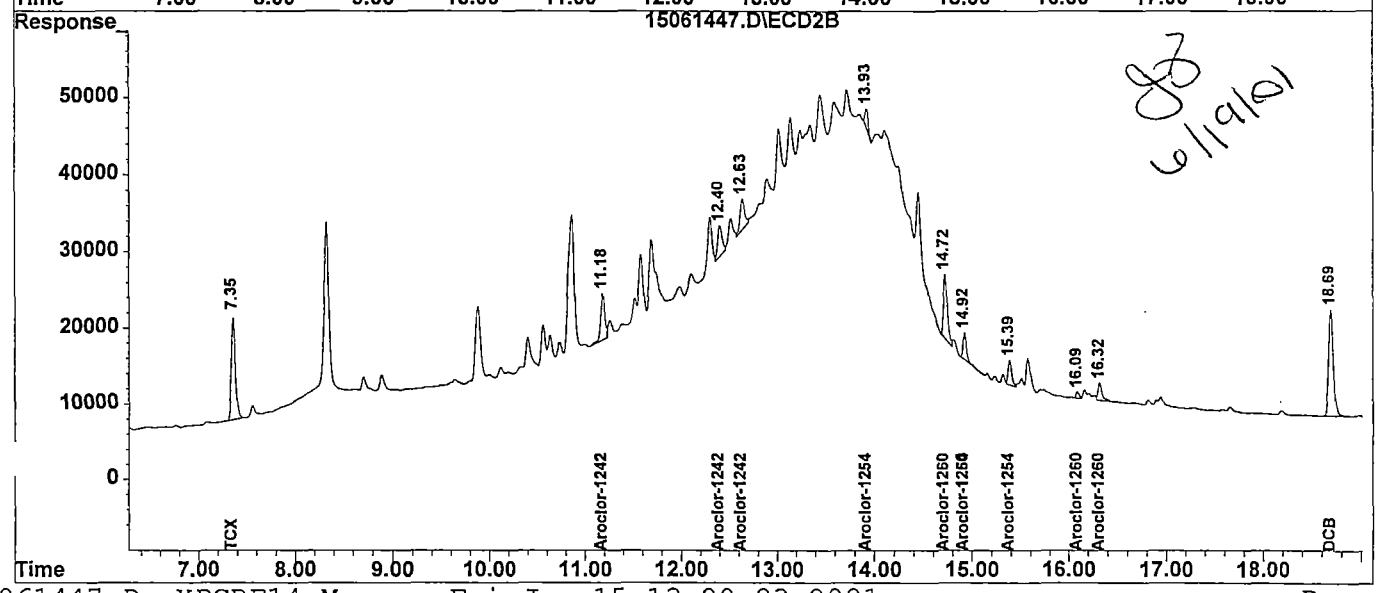
Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061447.D\ECD1A.CH Vial: 47
Acq On : 15 Jun 2001 11:43 Operator: DDC
Sample : 46702.19 *E00G2 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*24 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061447.D\ECD2B.CH Vial: 47
Acq On : 15 Jun 2001 11:43 Operator: DDC
Sample : 46702.19 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 15 13:28 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

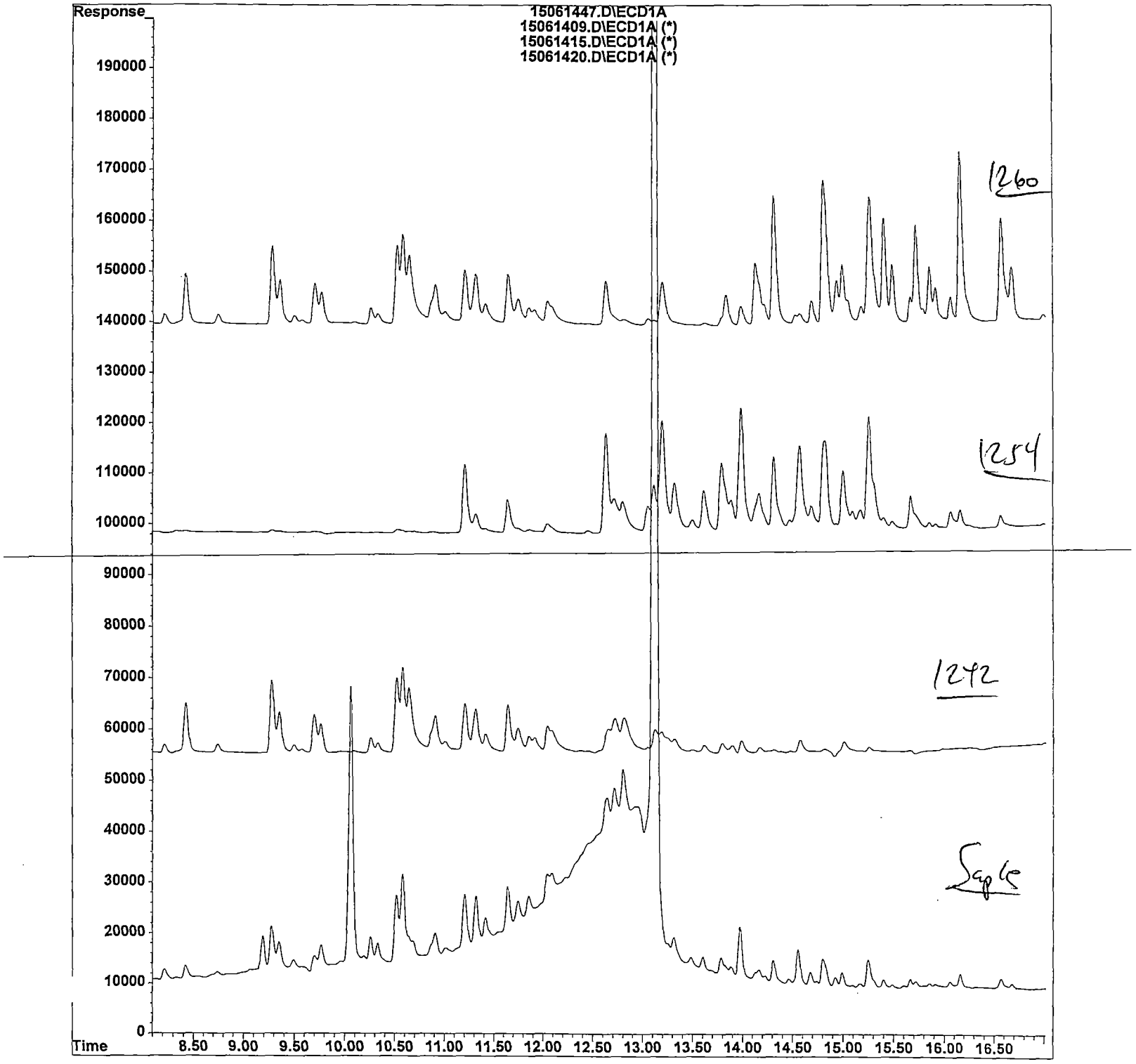
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/19/01

File : F:\HPCHEM\HP\15\DATA\06_14_01\15061447.D
Operator : DDC
Acquired : 15 Jun 2001 11:43 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46702.19
Misc Info :
Vial Number: 47



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00G3

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Matrix: (soil/water) SOIL Lab Sample ID: 46702.20

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

% Moisture: 20 decanted: (Y/N) __ Date Received: 06/07/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/07/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/15/01

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		41	U ~~UJ~~
11104-28-2	Aroclor-1221		41	U ~~UJ~~
11141-16-5	Aroclor-1232		41	U ~~UJ~~
53469-21-9	Aroclor-1242		~~490~~ 680	D ~~EJ~~
12672-29-6	Aroclor-1248		41	U ~~UJ~~
11097-69-1	Aroclor-1254	140	~~140~~ 180	D ~~J~~
11096-82-5	Aroclor-1260	72	~~72~~ 100	D ~~J~~
Surrogate amount spiked			8.31	

TBS 7/7/01
apply this results TBS 7/13/01

FORM I PCB

Quantitation Report

Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061448.D\ECD1A.CH Vial: 48
Acq On : 15 Jun 2001 12:06 Operator: DDC
Sample : 46702.20 *E00G3 * Inst : HP_15
Misc : *EPA*30.1G/5.0ML*20 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061448.D\ECD2B.CH Vial: 48
Acq On : 15 Jun 2001 12:06 Operator: DDC
Sample : 46702.20 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 15 13:31 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	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.36	360182	346915	5.964	6.217
	Spiked Amount 8.306			Recovery	=	71.81%	74.85%
22)	S DCB	18.29	18.69	458031	426163	7.340	7.469
	Spiked Amount 8.306			Recovery	=	88.37%	89.93%
	Target Compounds:						
7)	L4 Aroclor-1242	8.42	0.00	512240	0	365.6	N.D. d #
8)	L4 Aroclor-1242 {2}	9.70	11.18	418241	175278	443.6	152.0 #
~~10)~~	~~L4 Aroclor-1242 {4}~~	~~11.64~~	~~12.63~~	~~1117357~~	~~790939~~	~~807.6 E~~	~~1069.8 E#~~
11)	L4 Aroclor-1242 {5}	12.80	13.14	653056	811033	340.5	784.5 E#
	Sum Aroclor-1242			2700895	1777250	1957.3	2006.3
	Average Aroclor-1242					489.331	668.776
12)	L6 Aroclor-1254	12.64	0.00	562786	0	201.4	N.D. d #
13)	L6 Aroclor-1254 {2}	13.31	0.00	228877	0	128.1	N.D. d #
14)	L6 Aroclor-1254 {3}	13.79	13.93	313922	214445	126.4	171.8 #
15)	L6 Aroclor-1254 {4}	14.31	14.92	335724	280638	150.7	157.5
16)	L6 Aroclor-1254 {5}	14.99	15.39	215438	273192	115.0	124.0
	Sum Aroclor-1254			1656748	768275	721.5	453.2
	Average Aroclor-1254					144.303	151.080
17)	L7 Aroclor-1260	14.31	0.00	335724	0	85.7	N.D. d #
18)	L7 Aroclor-1260 {2}	14.80	14.73	477411	624336	90.6	180.5 #
19)	L7 Aroclor-1260 {3}	15.25	14.92	507570	280638	101.0	68.6 #
20)	L7 Aroclor-1260 {4}	15.72	16.10	94247	46652	32.9	19.9 #
21)	L7 Aroclor-1260 {5}	16.16	16.32	284628	177835	49.9	31.2 #
	Sum Aroclor-1260			1699582	1129461	149.6	124.7
	Av ge Aroclor-1260					72.026	75.049

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

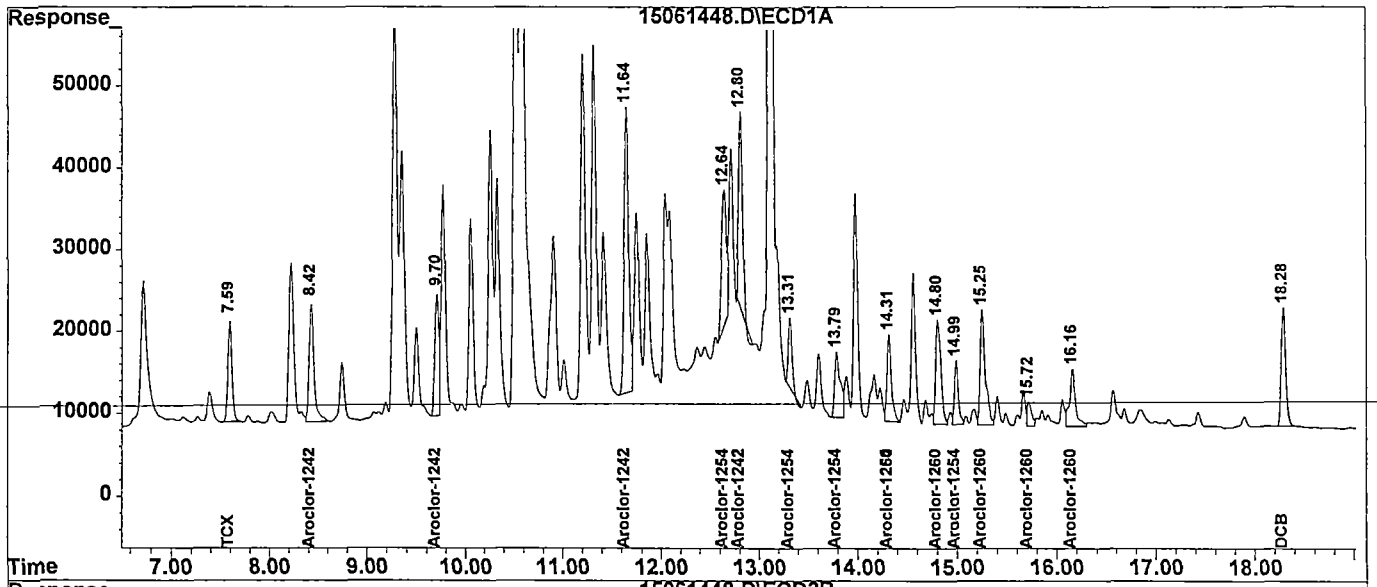
Chromatographic Report

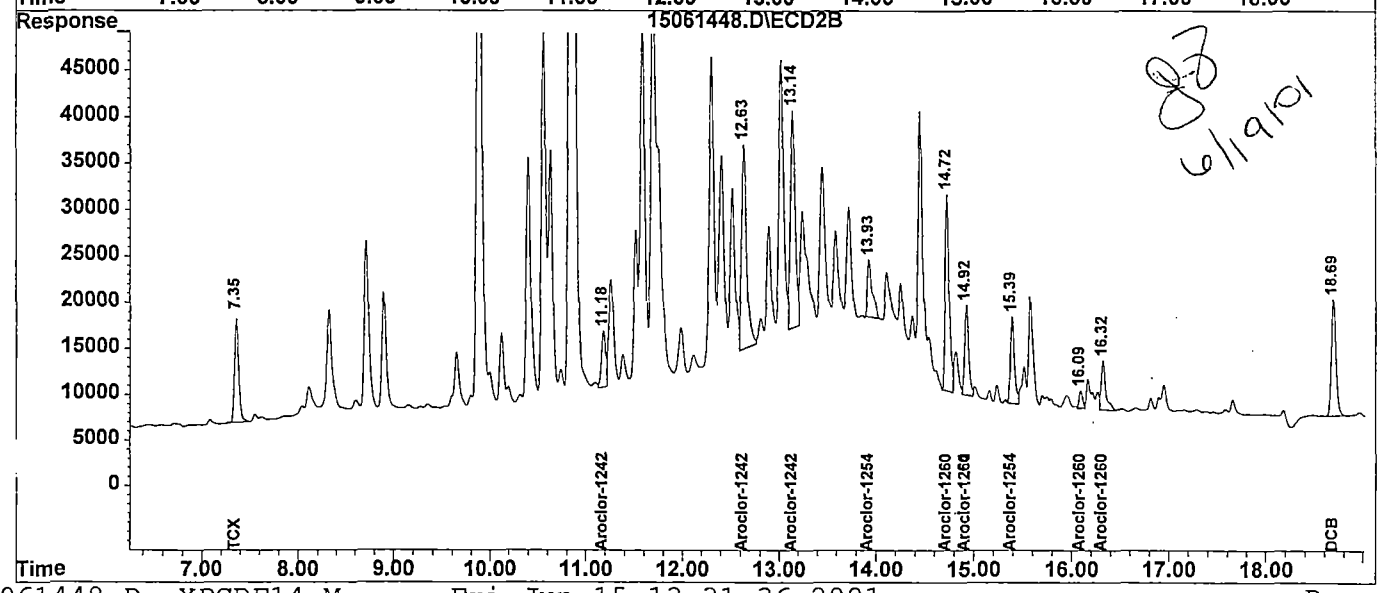
Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061448.D\ECD1A.CH Vial: 48
Acq On : 15 Jun 2001 12:06 Operator: DDC
Sample : 46702.20 *E00G3 * Inst : HP_15
Misc : *EPA*30.1G/5.0ML*20 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061448.D\ECD2B.CH Vial: 48
Acq On : 15 Jun 2001 12:06 Operator: DDC
Sample : 46702.20 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 15 13:31 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

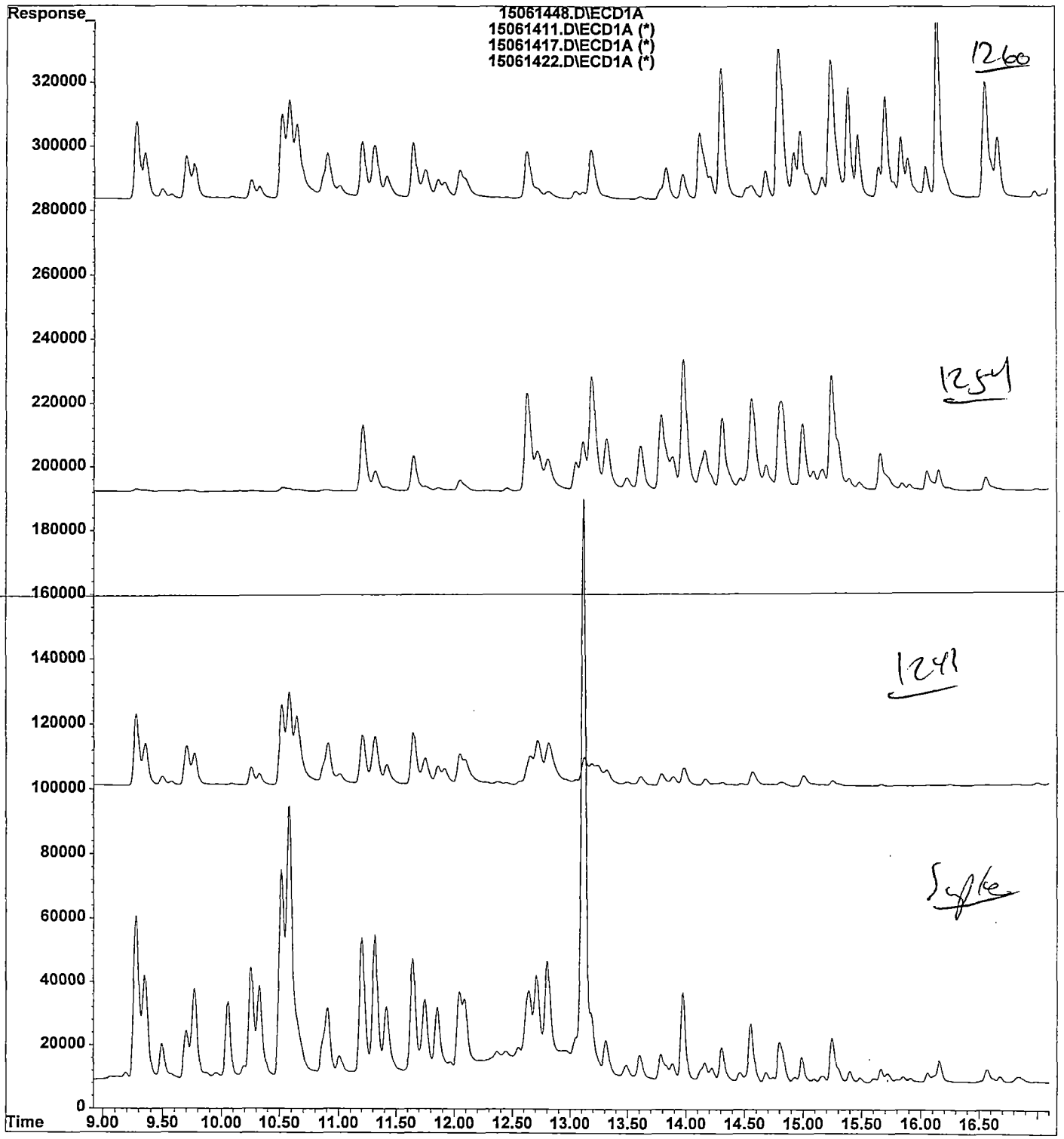
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





87
6/19/01

File : F:\HPCHEM\HP\15\DATA\06_14_01\15061448.D
Operator : DDC
Acquired : 15 Jun 2001 12:06 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46702.20
Misc Info :
Vial Number: 48



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00G3DL

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Matrix: (soil/water) SOIL Lab Sample ID: 46702.20DL

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

% Moisture: 20 decanted: (Y/N) __ Date Received: 06/07/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/07/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/16/01

Injection Volume: 0.5(uL) Dilution Factor: 2.0

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	82	U ~~UJ~~
11104-28-2	Aroclor-1221	82	U ~~UJ~~
11141-16-5	Aroclor-1232	82	U ~~UJ~~
53469-21-9	Aroclor-1242	680	D ~~DJ~~
12672-29-6	Aroclor-1248	82	U ~~UJ~~
11097-69-1	Aroclor-1254	180	D ~~DJ~~
11096-82-5	Aroclor-1260	100	D ~~DJ~~
	Surrogate amount spiked	8.31	

TBS 7/7/01
TBS 7/13/01

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061528.D\ECD1A.CH Vial: 28
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061528.D\ECD2B.CH
Acq On : 16 Jun 2001 19:05 Operator: DDC
Sample : 46702.20DL *E00G3DL * Inst : HP_15
Misc : *EPA*30.1G/5.0ML*20 Dilution: 2.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 18 9:39 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	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.60	7.36	220472	213444	7.301	7.650	
	Spiked Amount 8.306			Recovery	=	87.90%	92.11%	
22)	S DCB	18.29	18.70	285281	287158	9.143	10.1	
	Spiked Amount 8.306			Recovery	=	110.08%	121.60%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.43	0.00	332876	0	475.1	N.D.	d #
8)	L4 Aroclor-1242 {2}	9.71	11.19	266895	90930	566.2	157.7	#
10)	L4 Aroclor-1242 {4}	11.65	12.64	709412	530608	1025.6	1435.3	E#
11)	L4 Aroclor-1242 {5}	12.81	13.15	638930	526409	666.2	1018.4	#
	Sum Aroclor-1242			1948113	1147948	2733.1	2611.5	
	Average Aroclor-1242					683.272	870.494	
~~13)~~	~~L6 Aroclor-1254 {2}~~	~~13.32~~	~~0.00~~	~~192327~~	~~0~~	~~215.3~~	~~N.D.~~	~~d #~~
14)	L6 Aroclor-1254 {3}	13.79	13.94	196471	140605	158.2	225.2	#
15)	L6 Aroclor-1254 {4}	14.32	14.93	217151	152933	195.0	171.6	
16)	L6 Aroclor-1254 {5}	15.00	15.40	146133	164383	156.0	149.2	
	Sum Aroclor-1254			752082	457920	724.4	546.1	
	Average Aroclor-1254					181.099	182.032	
17)	L7 Aroclor-1260	14.32	0.00	217151	0	110.9	N.D.	d #
18)	L7 Aroclor-1260 {2}	14.81	14.73	310488	386456	117.9	223.5	#
19)	L7 Aroclor-1260 {3}	15.26	14.93	335774	152933	133.7	74.7	#
20)	L7 Aroclor-1260 {4}	15.72	16.10	73937	54828	51.6	46.7	
	Sum Aroclor-1260			937351	594217	343.9	286.5	
	Average Aroclor-1260					103.505	114.971	

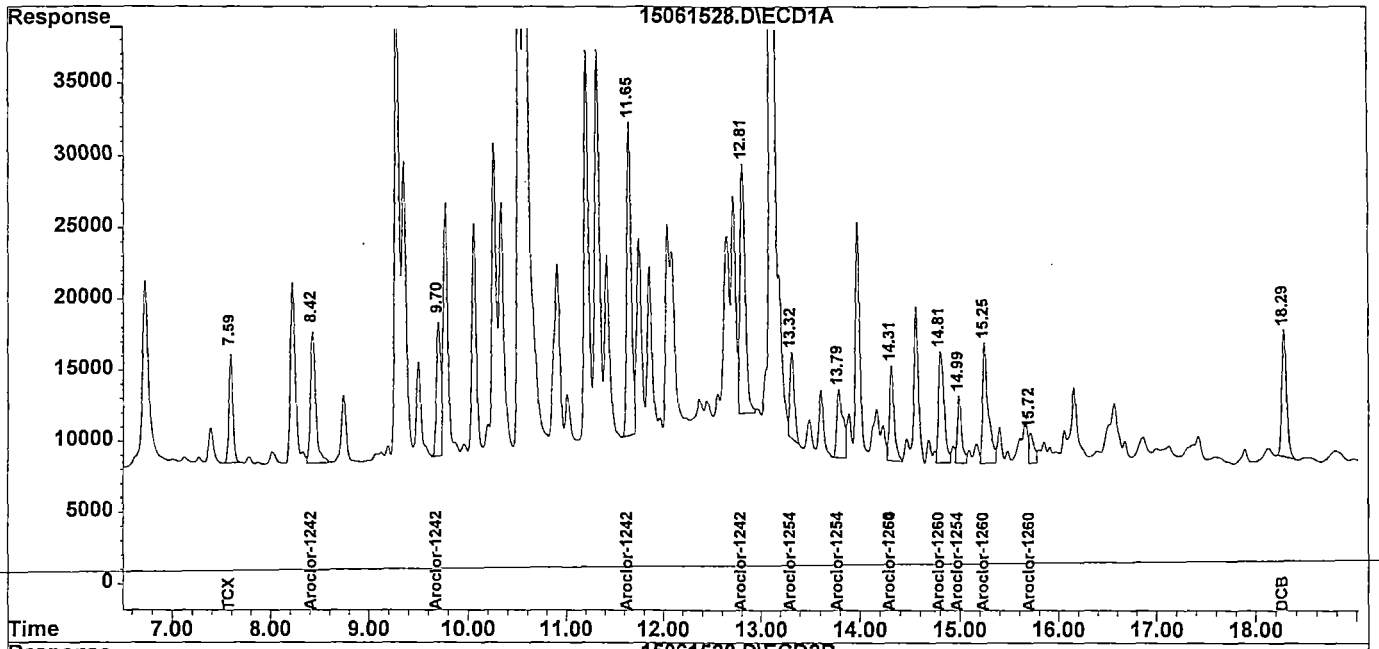
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

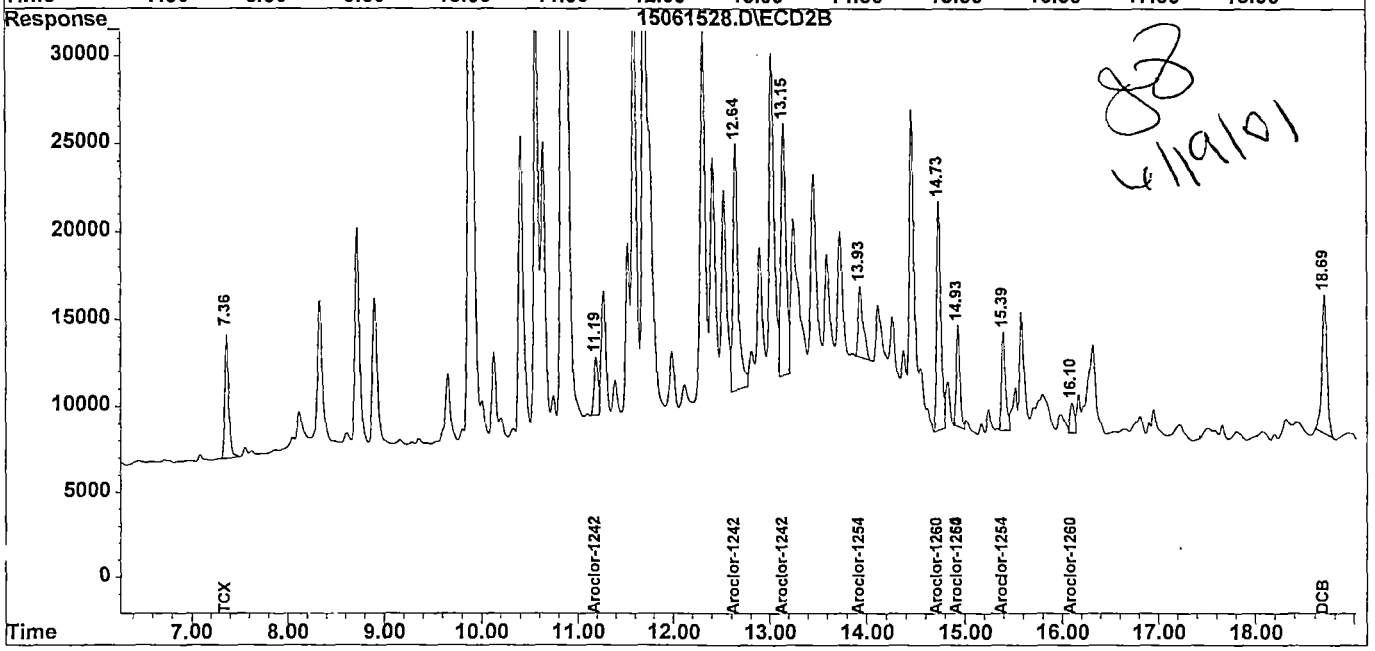
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061528.D\ECD1A.CH Vial: 28
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061528.D\ECD2B.CH
Acq On : 16 Jun 2001 19:05 Operator: DDC
Sample : 46702.20DL *E00G3DL * Inst : HP_15
Misc : *EPA*30.1G/5.0ML*20 Dilution: 2.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 18 9:39 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





8B
6/19/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00G4

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Matrix: (soil/water) SOIL Lab Sample ID: 46702.21

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

% Moisture: 44 decanted: (Y/N) __ Date Received: 06/07/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/07/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/15/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	58	U ~~UJ~~
11104-28-2	Aroclor-1221	58	U ~~UJ~~
11141-16-5	Aroclor-1232	58	U ~~UJ~~
53469-21-9	Aroclor-1242	~~4300~~	10000 ~~EP~~ D
12672-29-6	Aroclor-1248	58	U ~~UJ~~
11097-69-1	Aroclor-1254	~~2000~~	4400 D ~~EJ~~
11096-82-5	Aroclor-1260	~~1300~~	1600 DP ~~EJ~~
Surrogate amount spiked		11.79	

TBS 7/7/01
apply this results 7/13/01

10000
4400
1600
16,000

FORM I PCB

Quantitation Report

Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061449.D\ECD1A.CH Vial: 49
Acq On : 15 Jun 2001 12:29 Operator: DDC
Sample : 46702.21 *E00G4 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*44 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061449.D\ECD2B.CH Vial: 49
Acq On : 15 Jun 2001 12:29 Operator: DDC
Sample : 46702.21 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 15 13:34 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	ug/Kg	ug/Kg
System Monitoring Compounds:						
1) S TCX	7.59	7.36	348632	360431	8.192	9.167
Spiked Amount 11.787			Recovery	=	69.50%	77.77%
22) S DCB	18.29	18.70	556753	508816	12.7	12.7
Spiked Amount 11.787			Recovery	=	107.75%	107.75%
Target Compounds:						
7) L4 Aroclor-1242	8.42	0.00	3314457	0	3356.9 E	N.D. d #
8) L4 Aroclor-1242 {2}	9.70	11.18	2118603	5090729	3189.2 E	6266.1 E#
~~10) L4 Aroclor-1242 {4}~~	~~11.64~~	~~12.63~~	~~6000410~~	~~5117460~~	~~6155.1 E~~	~~9822.7 E#~~
11) L4 Aroclor-1242 {5}	12.81	13.14	6255598	7277663	4628.3 E	9990.5 E#
Sum Aroclor-1242			17689067	17485852	17329.4	26079.3
Average Aroclor-1242					4332.359	8693.089
12) L6 Aroclor-1254	12.64	0.00	5278862	0	2680.4 E	N.D. d #
13) L6 Aroclor-1254 {2}	13.31	0.00	3883107	0	3084.1 E	N.D. d #
14) L6 Aroclor-1254 {3}	13.79	13.93	1092792	3081209	624.3	3502.2 E#
15) L6 Aroclor-1254 {4}	14.31	14.93	4285605	4029114	2730.3 E	3208.5 E
16) L6 Aroclor-1254 {5}	14.99	15.40	1242901	3571322	941.3 E	2300.6 E#
Sum Aroclor-1254			15783267	10681645	10060.4	9011.3
Average Aroclor-1254					2012.076	3003.768
17) L7 Aroclor-1260	14.31	0.00	4285605	0	1552.7 E	N.D. d #
18) L7 Aroclor-1260 {2}	14.81	14.73	7210825	9001705	1943.0 E	3693.8 E#
19) L7 Aroclor-1260 {3}	15.25	14.93	6309108	4029114	1782.4 E	1397.2 E
20) L7 Aroclor-1260 {4}	15.72	16.10	1242025	898511	614.5	542.9
21) L7 Aroclor-1260 {5}	16.16	16.33	2500898	2784389	621.9	694.0
Sum Aroclor-1260			21548461	16713719	3839.2	3729.3
Average Aroclor-1260					1302.886	1581.956

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

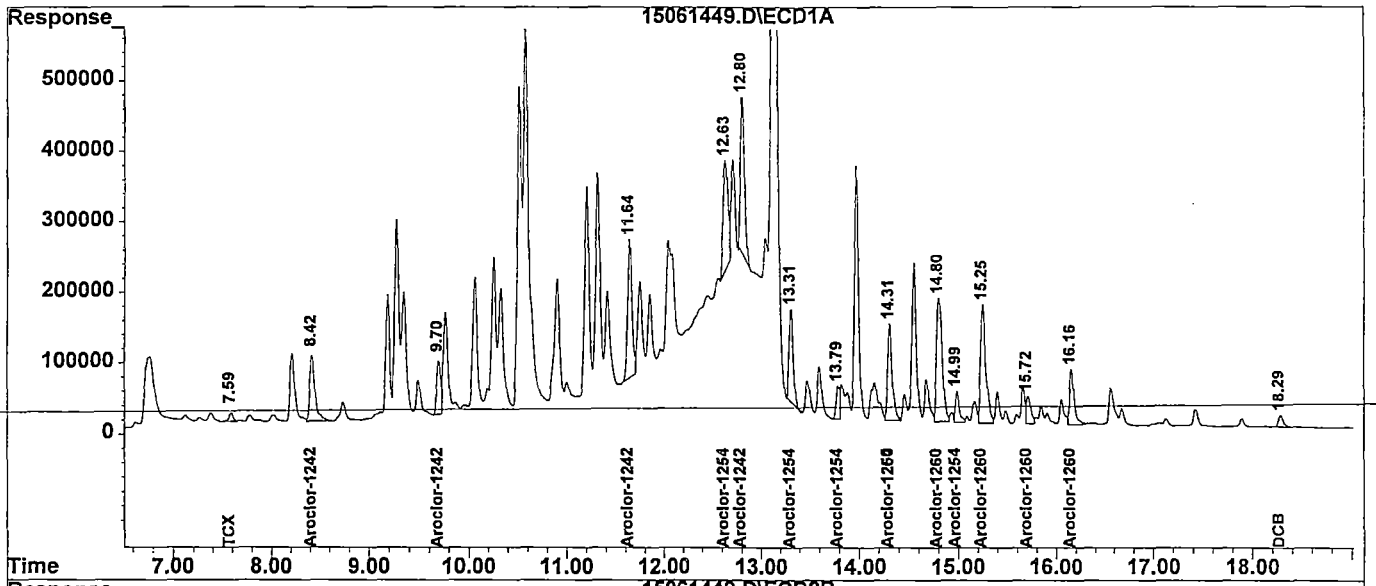
Chromatographic Report

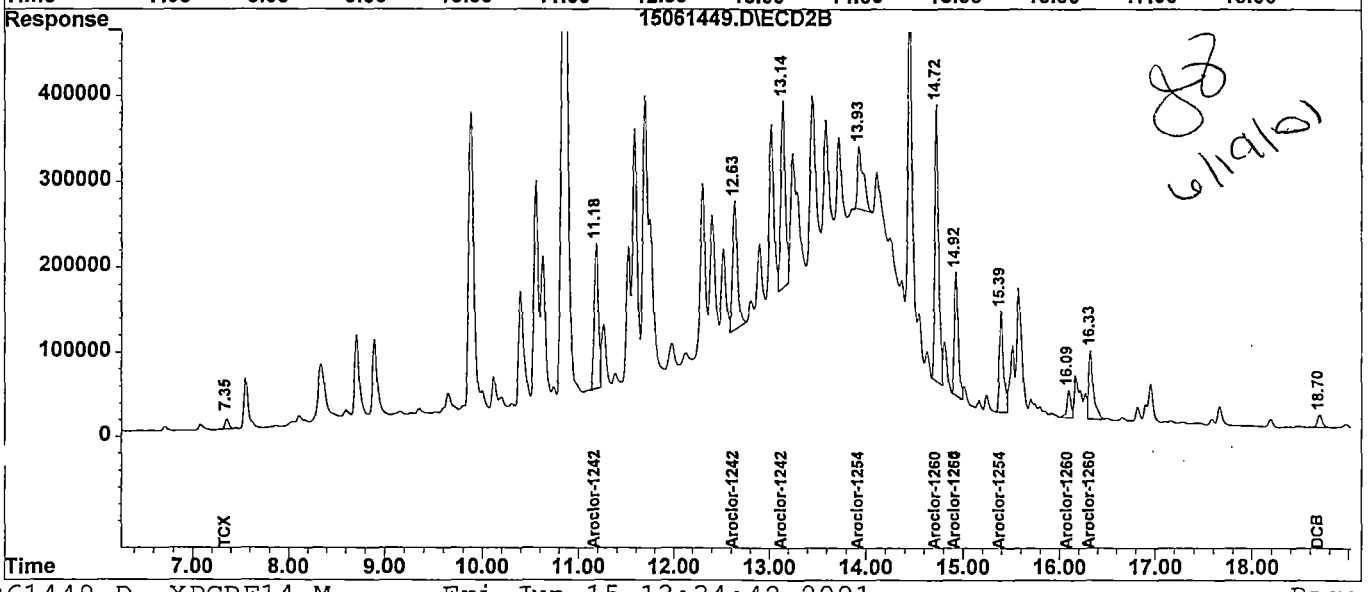
Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061449.D\ECD1A.CH Vial: 49
Acq On : 15 Jun 2001 12:29 Operator: DDC
Sample : 46702.21 *E00G4 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*44 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061449.D\ECD2B.CH Vial: 49
Acq On : 15 Jun 2001 12:29 Operator: DDC
Sample : 46702.21 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 15 13:34 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

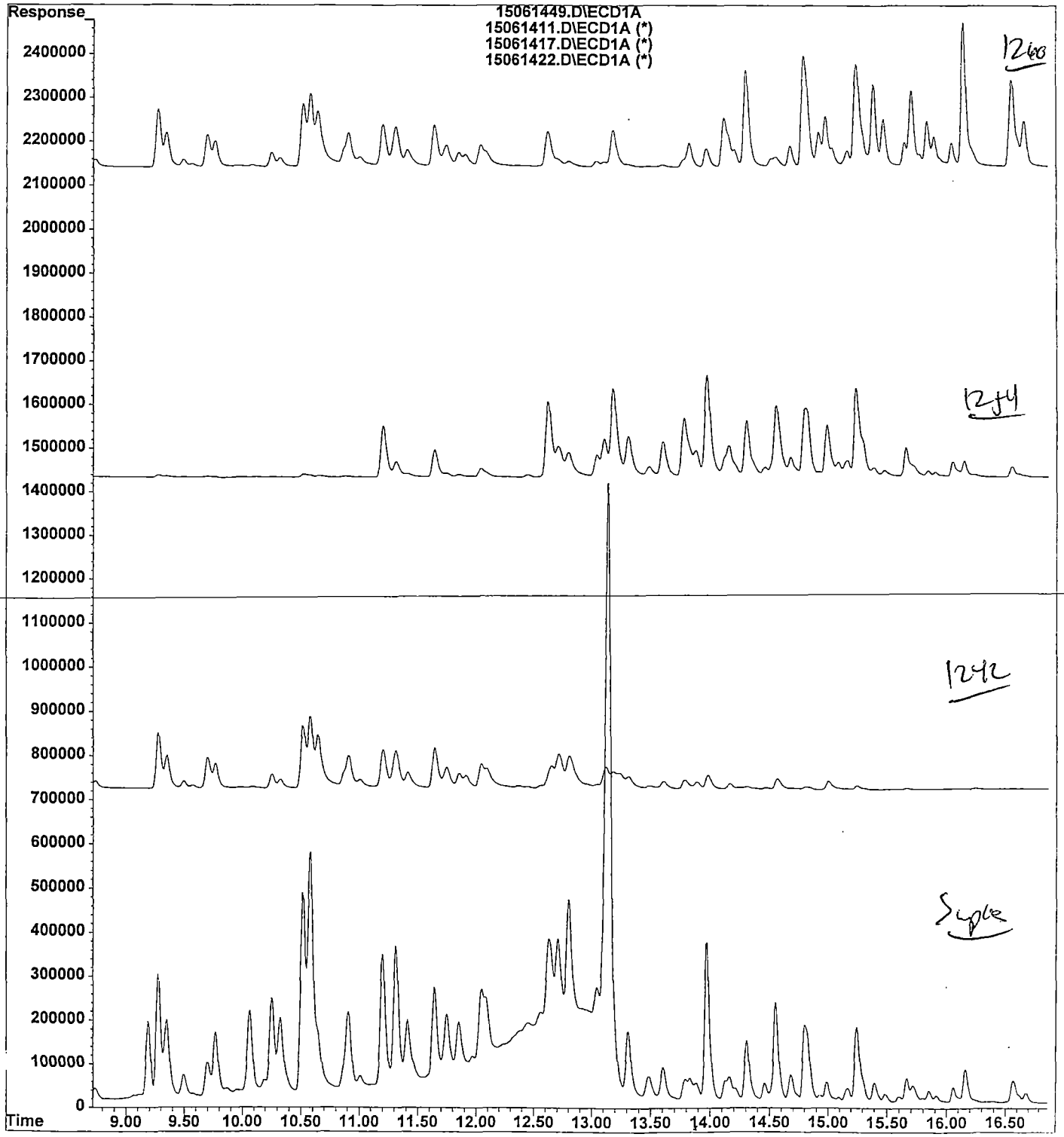
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/19/01

File : F:\HPCHEM\HP\15\DATA\06_14_01\15061449.D
Operator : DDC
Acquired : 15 Jun 2001 12:29 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46702.21
Misc Info :
Vial Number: 49



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00G4DL

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Matrix: (soil/water) SOIL Lab Sample ID: 46702.21DL

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

% Moisture: 44 decanted: (Y/N) __ Date Received: 06/07/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/07/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/16/01

Injection Volume: 0.5(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	1200	U ~~UJ~~
11104-28-2	Aroclor-1221	1200	U ~~UJ~~
11141-16-5	Aroclor-1232	1200	U ~~UJ~~
53469-21-9	Aroclor-1242	10000	DPJ ~~DPJ~~
12672-29-6	Aroclor-1248	~~1200~~	U ~~UJ~~
11097-69-1	Aroclor-1254	4400	DJ ~~DJ~~
11096-82-5	Aroclor-1260	1600	DPJ ~~DPJ~~
Surrogate amount spiked		11.79	

TBS
7/13/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061529.D\ECD1A.CH Vial: 29
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061529.D\ECD2B.CH
Acq On : 16 Jun 2001 19:28 Operator: DDC
Sample : 46702.21DL *E00G4DL * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*44 Dilution: 20.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 18 9:39 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	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.60	7.36	36834	34606	17.3	17.6	
	Spiked Amount 11.787			Recovery	=	146.77%	149.32%	
22)	S DCB	18.29	18.70	44905	51880	20.4	25.8	#
	Spiked Amount 11.787			Recovery	=	173.07%	218.89%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.43	10.40	426184	546462	8632.8	22855.6	E#
8)	L4 Aroclor-1242 {2}	9.70	11.19	265326	387599	7988.1	9541.8	
11)	L4 Aroclor-1242 {5}	12.81	13.15	963523	795088	14257.4	21829.3	E#
	Sum Aroclor-1242			1655033	1729149	30878.3	54226.7	
	Average Aroclor-1242					10292.755	18075.579	
13)	L6 Aroclor-1254 {2}	13.32	0.00	484908	0	7702.6	N.D.	d #
~~14)~~	~~L6 Aroclor-1254 {3}~~	~~13.80~~	~~13.94~~	~~103563~~	~~315518~~	~~1183.3~~	~~7172.5~~	~~#~~
15)	L6 Aroclor-1254 {4}	14.31	14.93	525468	438750	6695.3	6987.9	
16)	L6 Aroclor-1254 {5}	14.99	15.40	121943	338905	1847.0	4366.4	#
	Sum Aroclor-1254			1235881	1093173	17428.2	18526.7	
	Average Aroclor-1254					4357.058	6175.572	
17)	L7 Aroclor-1260	14.31	0.00	525468	0	3807.7	N.D.	d #
18)	L7 Aroclor-1260 {2}	14.81	0.00	807906	0	4353.8	N.D.	d #
19)	L7 Aroclor-1260 {3}	15.26	14.93	628324	438750	3550.1	3043.0	
20)	L7 Aroclor-1260 {4}	15.72	16.10	130184	62817	1288.1	759.1	#
21)	L7 Aroclor-1260 {5}	16.16	16.33	339982	195015	1690.9	972.1	#
	Sum Aroclor-1260			2431864	696582	173156.6	56272.4	
	Average Aroclor-1260					2938.121	1591.385	

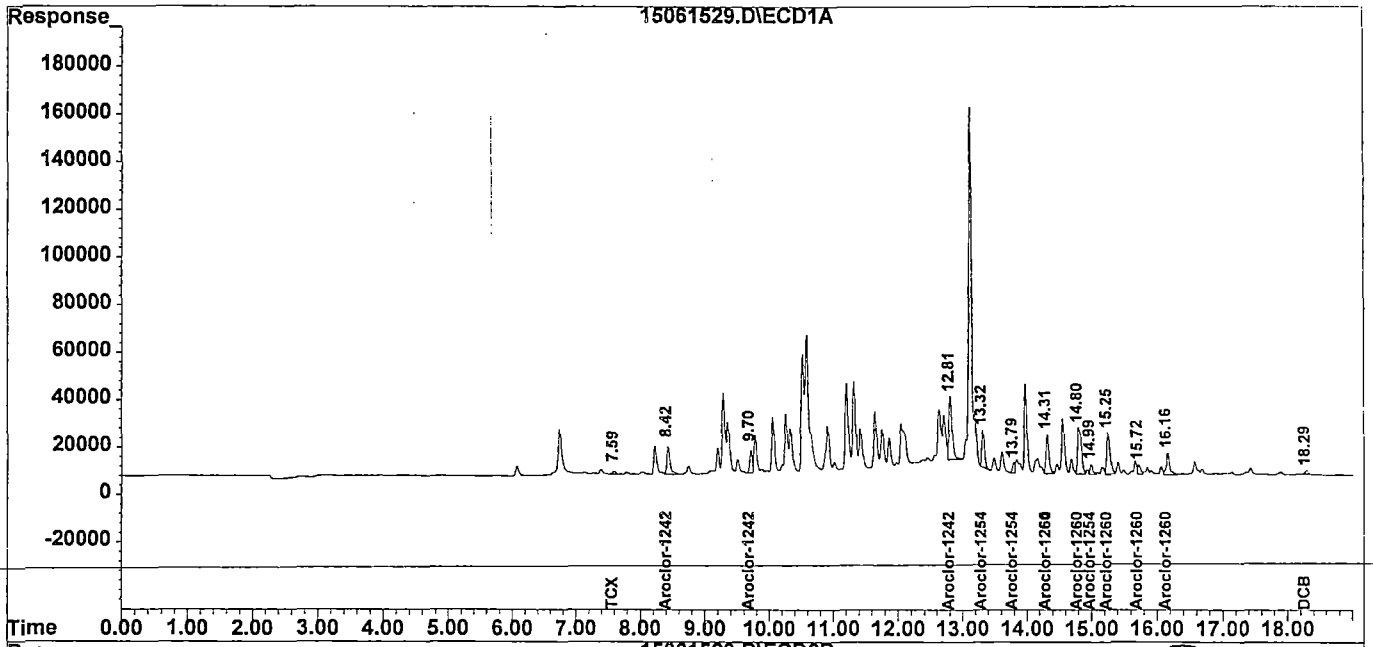
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

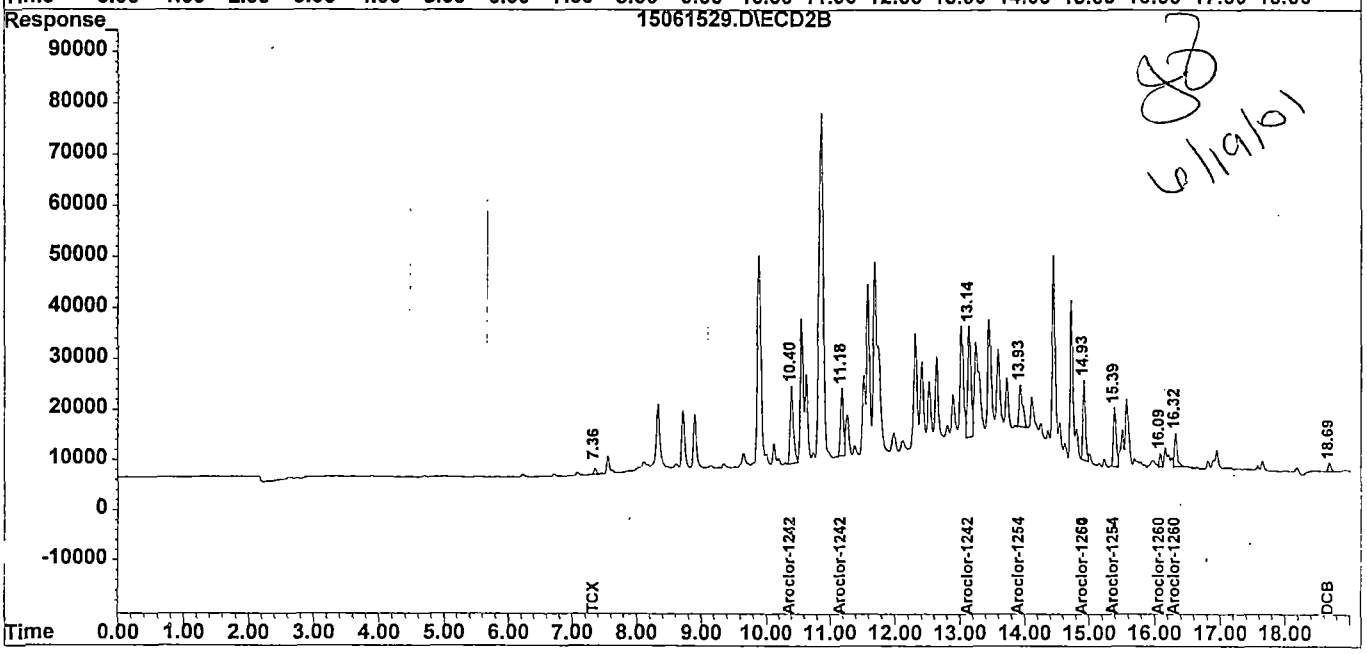
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061529.D\ECD1A.CH Vial: 29
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061529.D\ECD2B.CH
Acq On : 16 Jun 2001 19:28 Operator: DDC
Sample : 46702.21DL *E00G4DL * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*44 Dilution: 20.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 18 9:39 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





6/19/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00G5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Matrix: (soil/water) SOIL Lab Sample ID: 46702.22

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

% Moisture: 11 decanted: (Y/N) __ Date Received: 06/07/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/07/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/15/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	36	U
11104-28-2	Aroclor-1221	36	U
11141-16-5	Aroclor-1232	36	U
53469-21-9	Aroclor-1242	36	U
12672-29-6	Aroclor-1248	36	U
11097-69-1	Aroclor-1254	36	U
11096-82-5	Aroclor-1260	36	U
	Surrogate amount spiked	7.39	

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061450.D\ECD1A.CH Vial: 50
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061450.D\ECD2B.CH
Acq On : 15 Jun 2001 12:53 Operator: DDC
Sample : 46702.22 *E00G5 * Inst : HP_15
Misc : *EPA*30.4G/5.0ML*11 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 13:40 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	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.36	349879	349608	5.156	5.576
	Spiked Amount 7.392			Recovery	=	69.75%	75.43%
22)	S DCB	18.29	18.70	451486	407030	6.439	6.349
	Spiked Amount 7.392			Recovery	=	87.11%	85.89%
	Target Compounds:						

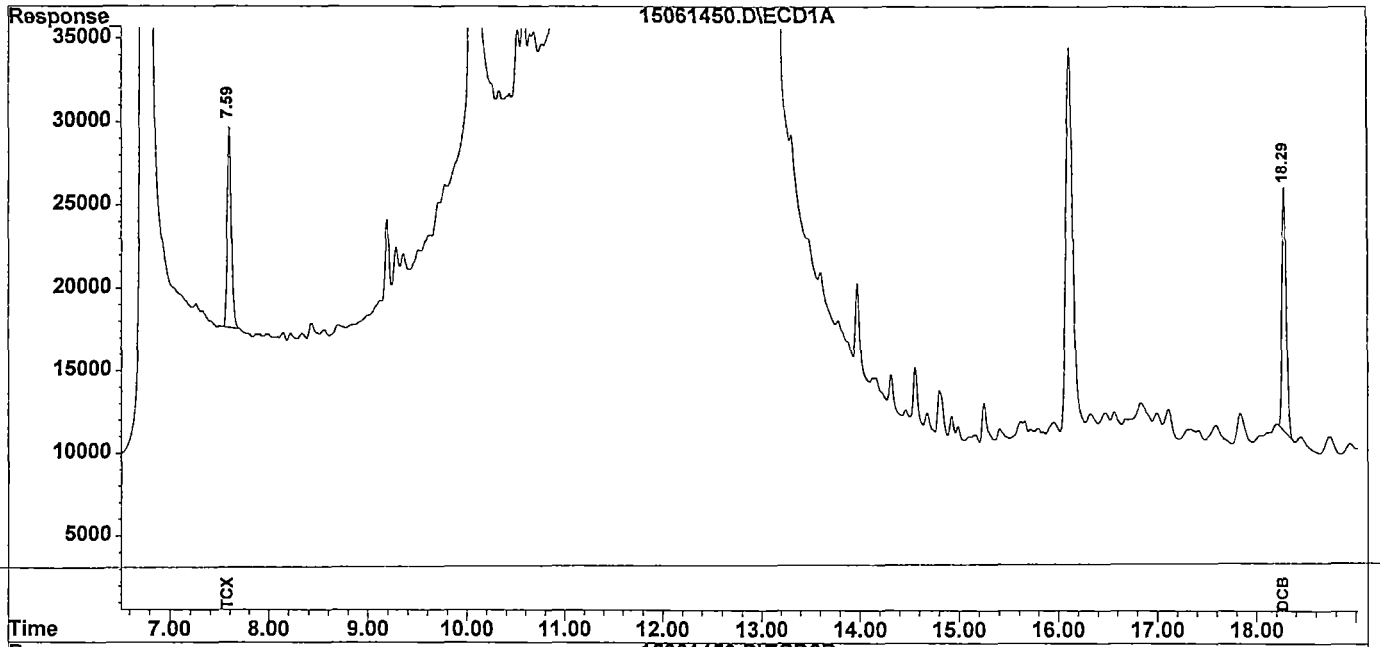
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

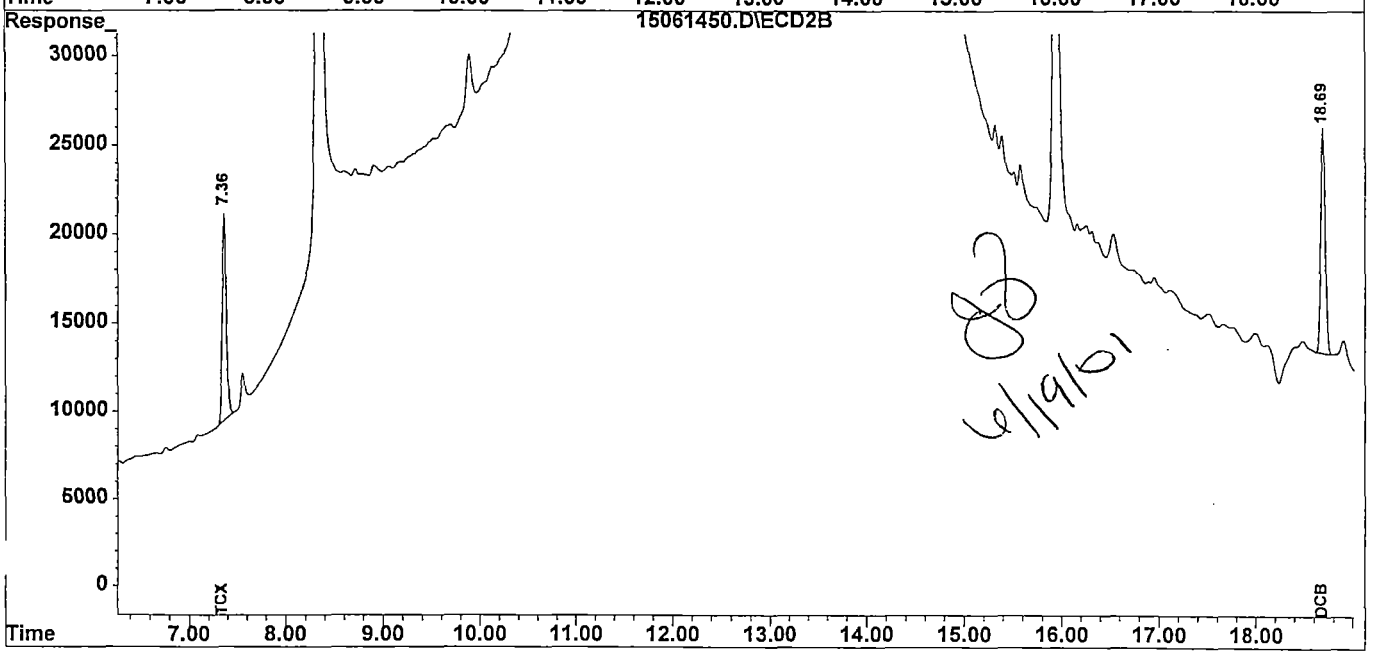
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061450.D\ECD1A.CH Vial: 50
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061450.D\ECD2B.CH
Acq On : 15 Jun 2001 12:53 Operator: DDC
Sample : 46702.22 *E00G5 * Inst : HP_15
Misc : *EPA*30.4G/5.0ML*11 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 13:40 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





6/19/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061450.D\ECD1A.CH Vial: 50
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061450.D\ECD2B.CH
Acq On : 15 Jun 2001 12:53 Operator: DDC
Sample : 46702.22 *E00G5 * Inst : HP_15
Misc : *EPA*30.4G/5.0ML*11 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 13:40 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	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.36	349879	349608	5.156	5.576
	Spiked Amount 7.392			Recovery	=	69.75%	75.43%
22)	S DCB	18.29	18.70	451486	407030	6.439	6.349
	Spiked Amount 7.392			Recovery	=	87.11%	85.89%

Target Compounds:

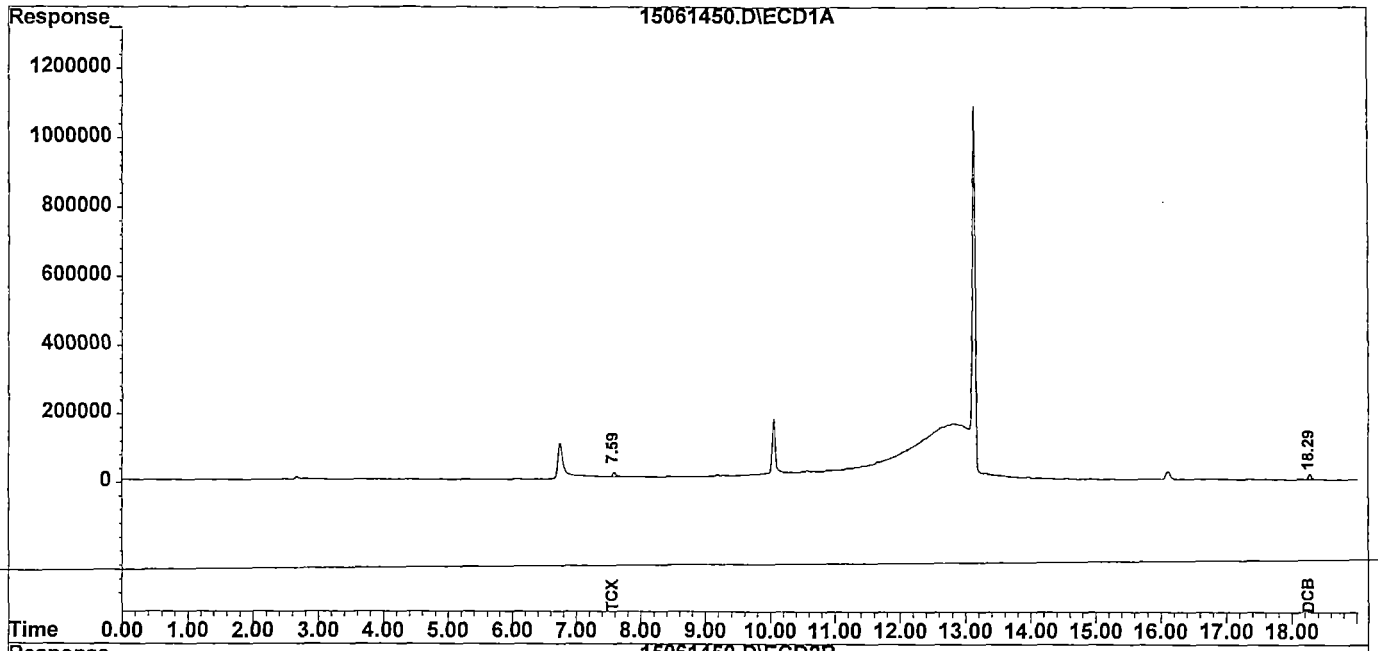
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

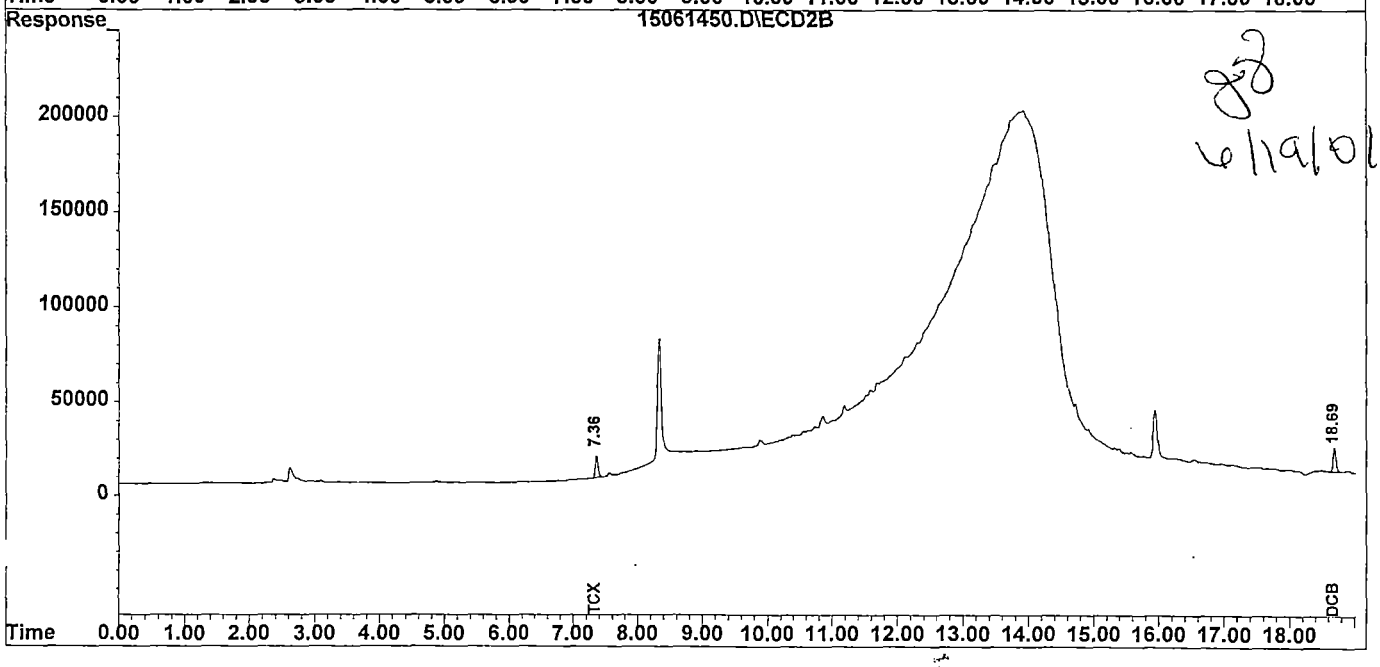
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061450.D\ECD1A.CH Vial: 50
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061450.D\ECD2B.CH
Acq On : 15 Jun 2001 12:53 Operator: DDC
Sample : 46702.22 *E00G5 * Inst : HP_15
Misc : *EPA*30.4G/5.0ML*11 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 13:40 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





JJ
6/19/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00G6

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Matrix: (soil/water) SOIL Lab Sample ID: 46702.23

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

% Moisture: 75 decanted: (Y/N) __ Date Received: 06/07/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/07/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/15/01

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	130	U ~~UJ~~
11104-28-2	Aroclor-1221	130	U ~~UJ~~
11141-16-5	Aroclor-1232	130	U ~~UJ~~
53469-21-9	Aroclor-1242	~~2900~~	4500DP ~~PJ~~
12672-29-6	Aroclor-1248	130	U ~~UJ~~
11097-69-1	Aroclor-1254	~~1600~~	3000D ~~PJ~~
11096-82-5	Aroclor-1260	800 ~~800~~	~~1500D~~ ~~J~~
Surrogate amount spiked		26.67	

TBS 7/7/01
apply this results TBS 7/13/01

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061451.D\ECD1A.CH Vial: 51
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061451.D\ECD2B.CH
Acq On : 15 Jun 2001 13:16 Operator: DDC
Sample : 46702.23 *E00G6 * Inst : HP_15
Misc : *EPA*30G/5.0ML*75 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 15:47 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	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.60	7.36	508974	484229	27.1	27.9
	Spiked Amount 26.667			Recovery	=	101.63%	104.63%
22)	S DCB	18.29	18.70	601429	565260	30.9	31.8
	Spiked Amount 26.667			Recovery	=	115.88%	119.25%
	Target Compounds:						
9)	L4 Aroclor-1242 {3}	10.58f	12.41	1333065	902518	1751.4 E	4466.9 E#
10)	L4 Aroclor-1242 {4}	11.65	12.64	1439205	793401	3340.0 E	3445.4 E
11)	L4 Aroclor-1242 {5}	12.81	13.14	2244409	1651116	3756.8 E	5127.9 E#
	Sum Aroclor-1242			5016680	3347035	8848.2	13040.2
	Average Aroclor-1242					2949.390	4346.725
12)	L6 Aroclor-1254	12.63	0.00	1385351	0	1591.4	N.D. d #
~~13)~~	~~L6 Aroclor-1254 {2}~~	~~13.32~~	~~0.00~~	~~1231545~~	~~0~~	~~2212.9 E~~	~~N.D. d #~~
14)	L6 Aroclor-1254 {3}	13.79	13.94	1216187	501117	1571.9	1288.6
15)	L6 Aroclor-1254 {4}	14.31	14.93	1046619	1106003	1508.5	1992.6 E#
16)	L6 Aroclor-1254 {5}	14.99	15.39	783776	1097172	1342.9	1599.0
	Sum Aroclor-1254			5663478	2704291	8227.7	4880.3
	Average Aroclor-1254					1645.548	1626.754
17)	L7 Aroclor-1260	14.31	0.00	1046619	0	857.9	N.D. d #
18)	L7 Aroclor-1260 {2}	14.80	14.73	1634882	1788501	996.6	1660.4 #
19)	L7 Aroclor-1260 {3}	15.25	14.93	1930952	1106003	1234.2	867.7 #
20)	L7 Aroclor-1260 {4}	15.72	16.10	381518	276862	427.0	378.5
21)	L7 Aroclor-1260 {5}	16.16	16.33	833766	891552	469.1	502.7
	Sum Aroclor-1260			5827738	4062917	5313.1	4545.7
	Average Aroclor-1260					796.959	852.314

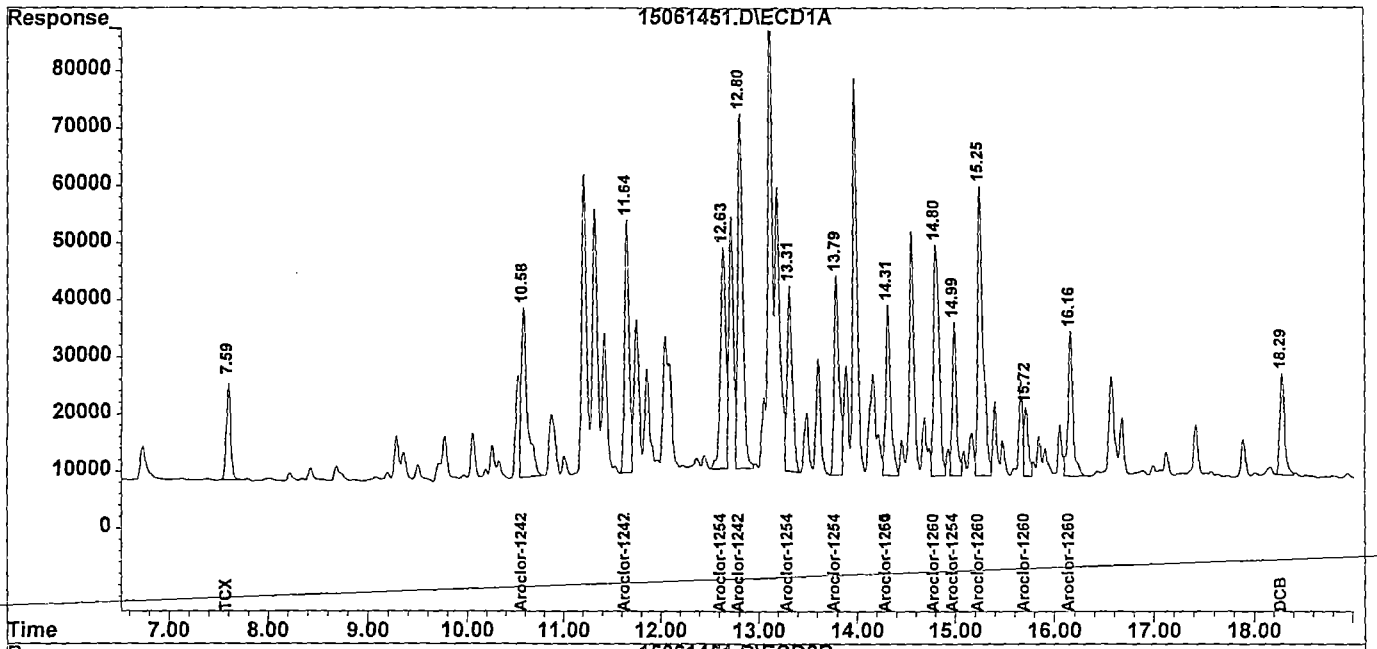
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

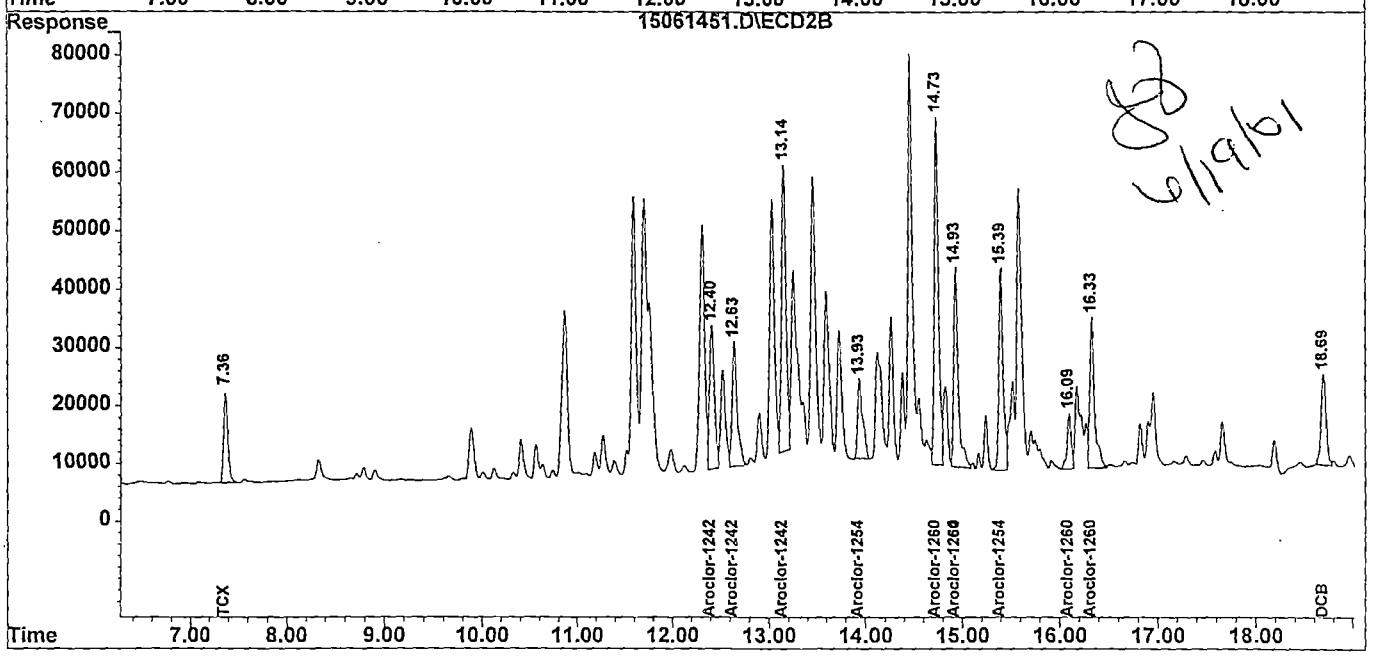
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061451.D\ECD1A.CH Vial: 51
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061451.D\ECD2B.CH
Acq On : 15 Jun 2001 13:16 Operator: DDC
Sample : 46702.23 *E00G6 * Inst : HP_15
Misc : *EPA*30G/5.0ML*75 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 15:47 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

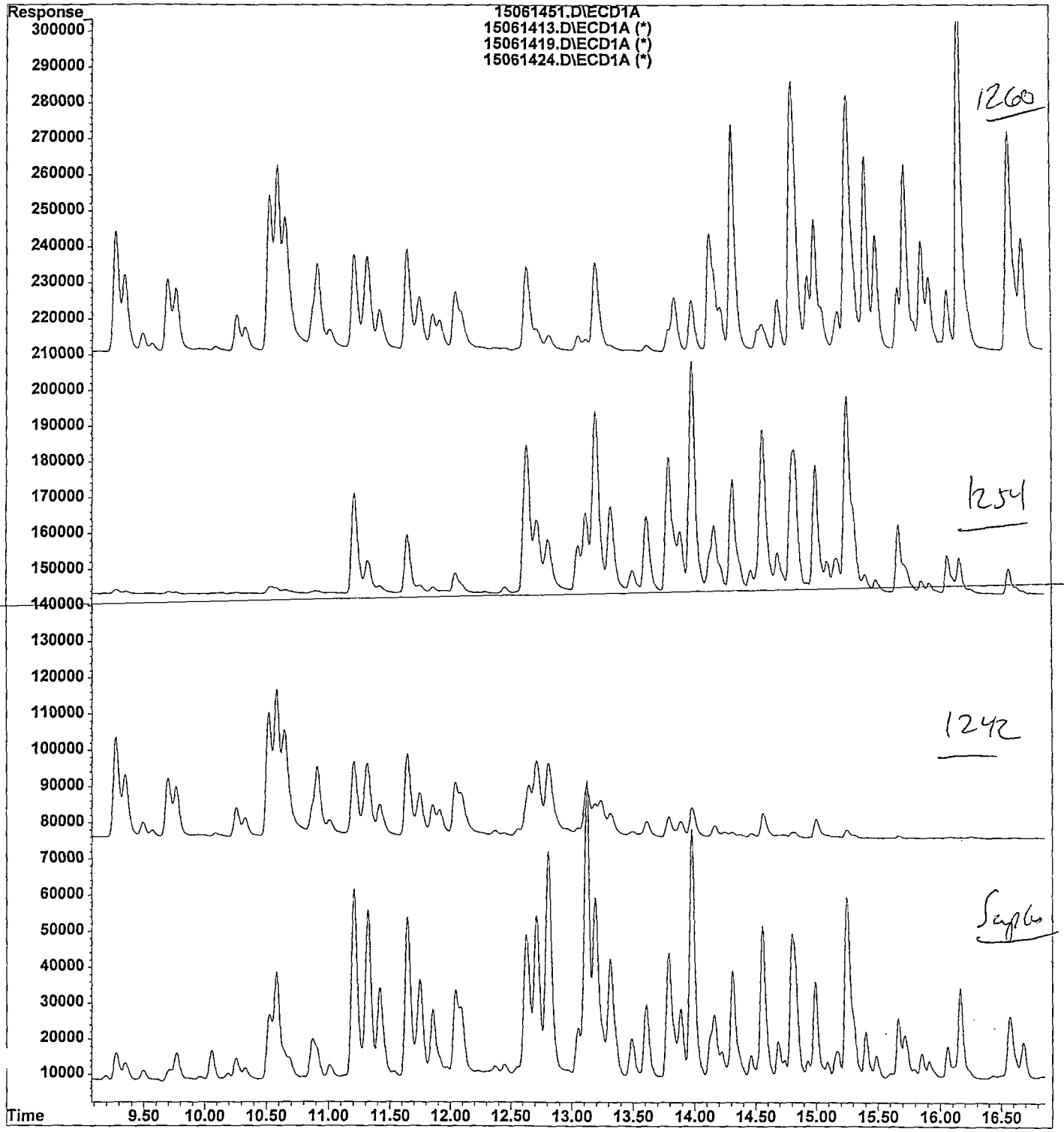
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/19/01

File : F:\HPCHEM\HP\15\DATA\06_14_01\15061451.D
Operator : DDC
Acquired : 15 Jun 2001 13:16 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46702.23
Misc Info :
Vial Number: 51



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00G6DL

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Matrix: (soil/water) SOIL Lab Sample ID: 46702.23DL

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

% Moisture: 75 decanted: (Y/N) __ Date Received: 06/07/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/07/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/16/01

Injection Volume: 0.5(uL) Dilution Factor: 10.0

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	1300	U ~~UJ~~
11104-28-2	Aroclor-1221	1300	U ~~UJ~~
11141-16-5	Aroclor-1232	1300	U ~~UJ~~
53469-21-9	Aroclor-1242	4500	DJ ~~DJ~~
12672-29-6	Aroclor-1248	1300	U ~~UJ~~
11097-69-1	Aroclor-1254	3000	DJ ~~DJ~~
11096-82-5	Aroclor-1260	1500	DJ ~~DJ~~
Surrogate amount spiked		26.67	

TBS 7/7/01

TBS 7/13/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061531.D\ECD1A.CH Vial: 31
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061531.D\ECD2B.CH
Acq On : 16 Jun 2001 20:14 Operator: DDC
Sample : 46702.23DL *E00G6DL * Inst : HP_15
Misc : *EPA*30G/5.0ML*75 Dilution: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 18 9:41 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	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.36	77416	71362	41.2	41.1	
	Spiked Amount 26.667			Recovery	=	154.50%	154.13%	
22)	S DCB	18.29	18.69	96147	95432	49.5	53.7	
	Spiked Amount 26.667			Recovery	=	185.63%	201.38%	
	Target Compounds:							
9)	L4 Aroclor-1242 {3}	10.68f	12.40	35308	161622	463.9	7999.2	#
10)	L4 Aroclor-1242 {4}	11.65	12.64	268221	147474	6224.7	6404.1	
11)	L4 Aroclor-1242 {5}	12.81	13.15	405856	294645	6793.4	9150.9	#
	Sum Aroclor-1242			709384	603741	13482.0	23554.3	
	Average Aroclor-1242					4493.990	7851.420	
12)	L6 Aroclor-1254	12.63	0.00	261978	0	3009.5	N.D. d	#
~~13)~~	~~L6 Aroclor-1254 {2}~~	~~13.32~~	~~13.02~~	~~229159~~	~~288174~~	~~4117.7~~	~~8085.6~~	~~#~~
14)	L6 Aroclor-1254 {3}	13.79	13.94	205010	98245	2649.8	2526.4	
15)	L6 Aroclor-1254 {4}	14.32	14.93	200932	186777	2896.1	3365.0	
16)	L6 Aroclor-1254 {5}	15.00	15.40	122168	188602	2093.2	2748.7	#
	Sum Aroclor-1254			1019248	761797	14766.3	16725.7	
	Average Aroclor-1254					2953.259	4181.428	
17)	L7 Aroclor-1260	14.32	0.00	200932	0	1647.1	N.D. d	#
18)	L7 Aroclor-1260 {2}	14.81	14.73	302631	321064	1844.8	2980.6	#
19)	L7 Aroclor-1260 {3}	15.25	14.93	330507	186777	2112.4	1465.3	#
20)	L7 Aroclor-1260 {4}	15.72	16.10	66975	52047	749.6	711.5	
21)	L7 Aroclor-1260 {5}	16.16	16.33	348583	129615	1961.1	730.9	#
	Sum Aroclor-1260			1249628	689502	110867.1	78510.4	
	Average Aroclor-1260					1663.006	1472.070	

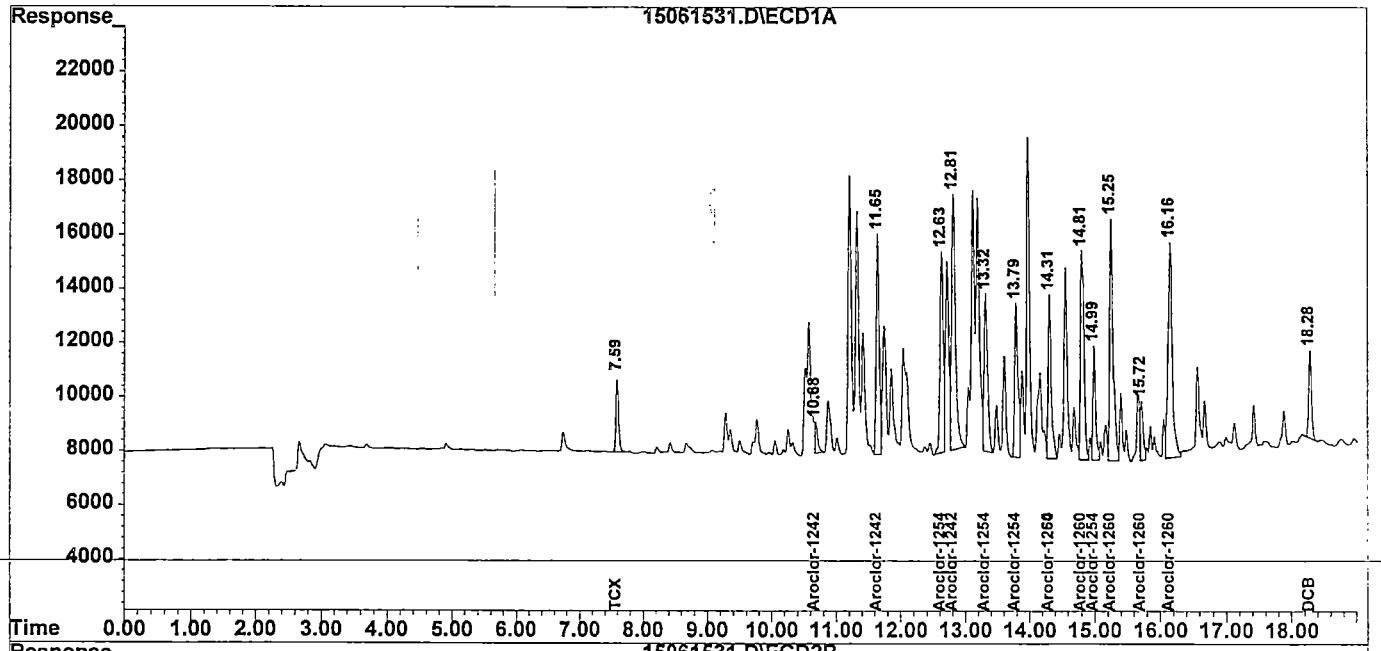
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

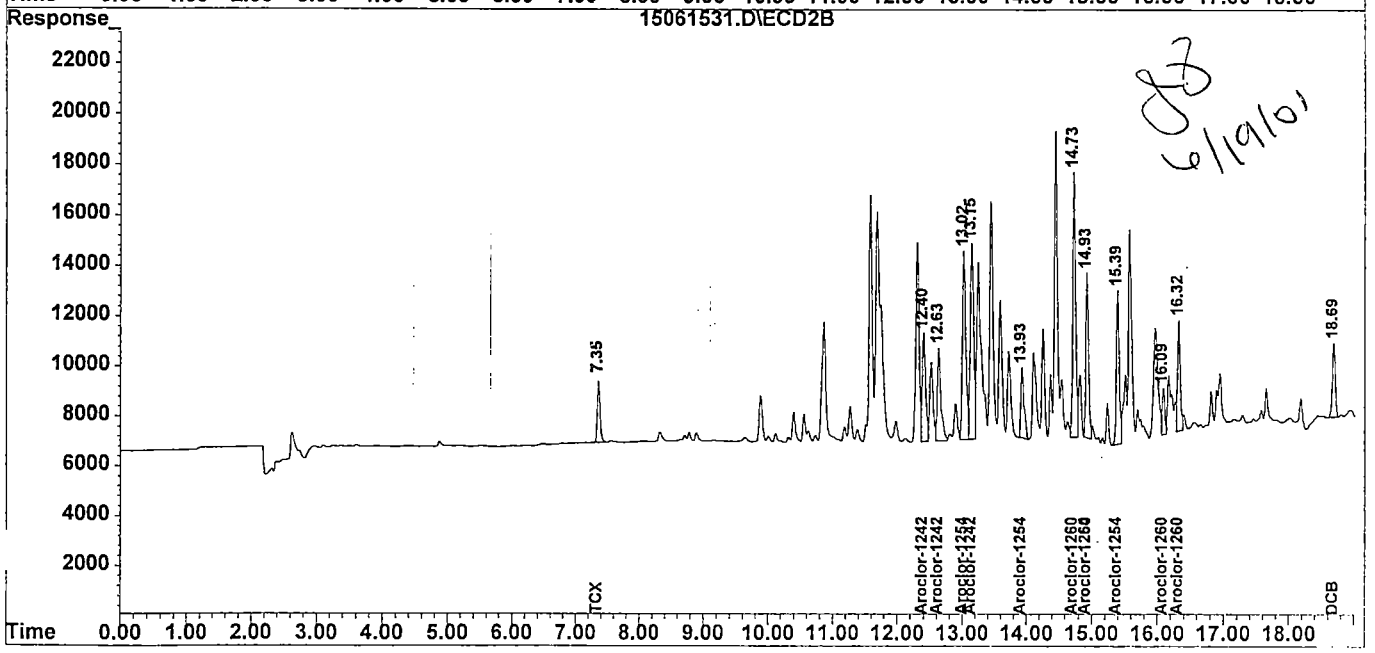
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061531.D\ECD1A.CH Vial: 31
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061531.D\ECD2B.CH
Acq On : 16 Jun 2001 20:14 Operator: DDC
Sample : 46702.23DL *E00G6DL * Inst : HP_15
Misc : *EPA*30G/5.0ML*75 Dilution: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 18 9:41 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





JB 6/19/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00G7

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Matrix: (soil/water) SOIL Lab Sample ID: 46702.24

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

% Moisture: 75 decanted: (Y/N) __ Date Received: 06/07/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/07/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/15/01

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	130	U ~~UJ~~
11104-28-2	Aroclor-1221	130	U ~~UJ~~
11141-16-5	Aroclor-1232	130	U ~~UJ~~
53469-21-9	Aroclor-1242	420	P ~~PJ~~
12672-29-6	Aroclor-1248	130	U ~~UJ~~
11097-69-1	Aroclor-1254	330	J
11096-82-5	Aroclor-1260	200	J
Surrogate amount spiked		26.67	

TBS 7/7/01
TBS 7/13/01

FORM I PCB

Quantitation Report

```
Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061452.D\ECD1A.CH Vial: 52
Acq On    : 15 Jun 2001  13:39                        Operator: DDC
Sample    : 46702.24  *E00G7  *                       Inst    : HP_15
Misc      : *EPA*30G/5.0ML*75                         Dilution: 1.00
IntFile   : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061452.D\ECD2B.CH Vial: 52
Acq On    : 15 Jun 2001  13:39                        Operator: DDC
Sample    : 46702.24                                  Inst    : HP_15
Misc      :                                           Dilution: 1.00
IntFile   : events2.e
Quant Time: Jun 15 15:49 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	ug/Kg	ug/Kg
System Monitoring Compounds:						
1) S TCX	7.60	7.36	436378	414415	23.2	23.8
Spiked Amount 26.667			Recovery	=	87.00%	89.25%
22) S DCB	18.29	18.70	504424	475228	26.0	26.7
Spiked Amount 26.667			Recovery	=	97.50%	100.13%
Target Compounds:						
7) L4 Aroclor-1242	0.00	10.40	0	63636	N.D. d	301.1 #
8) L4 Aroclor-1242 {2}	0.00	11.19	0	49317	N.D.	137.3 #
9) L4 Aroclor-1242 {3}	10.69f	0.00	67471	0	88.6	N.D. d #
10) L4 Aroclor-1242 {4}	11.65	12.64	359057	187012	833.3	812.1
11) L4 Aroclor-1242 {5}	12.81	0.00	635617	0	1063.9	N.D. d #
Sum Aroclor-1242			1062146	299965	1985.8	1250.5
Average Aroclor-1242					661.949	416.840
12) L6 Aroclor-1254	12.63	0.00	345843	0	397.3	N.D. d #
13) L6 Aroclor-1254 {2}	13.32	0.00	306308	0	550.4	N.D. d #
14) L6 Aroclor-1254 {3}	13.79	13.94	277098	91360	358.2	234.9 #
15) L6 Aroclor-1254 {4}	14.31	14.93	259264	229928	373.7	414.2
16) L6 Aroclor-1254 {5}	14.99	15.40	161493	242470	276.7	353.4 #
Sum Aroclor-1254			1350006	563758	1956.2	1002.6
Average Aroclor-1254					391.245	334.186
17) L7 Aroclor-1260	14.31	0.00	259264	0	212.5	N.D. d #
18) L7 Aroclor-1260 {2}	14.81	14.73	387924	407151	236.5	378.0 #
19) L7 Aroclor-1260 {3}	15.25	14.93	417833	229928	267.1	180.4 #
20) L7 Aroclor-1260 {4}	15.72	16.10	101623	86370	113.7	118.1
21) L7 Aroclor-1260 {5}	0.00	16.33	0	200449	N.D. d	113.0 #
Sum Aroclor-1260			1166645	923897	1106.4	1052.6
Average Aroclor-1260					207.450	197.365

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

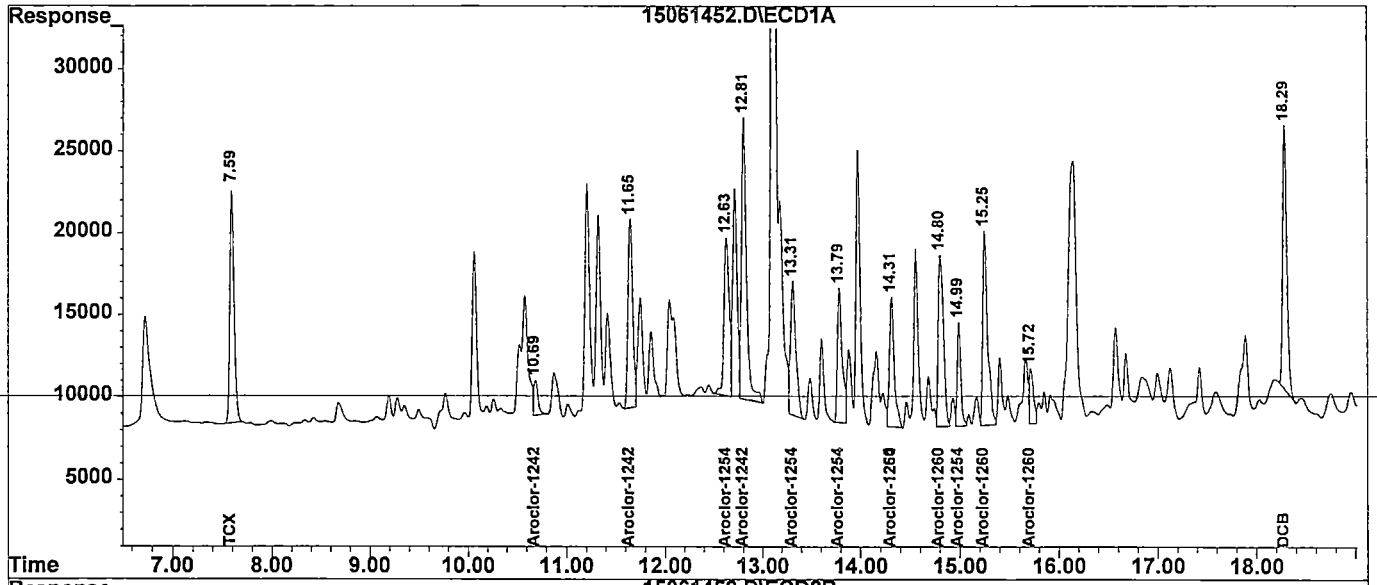
Chromatographic Report

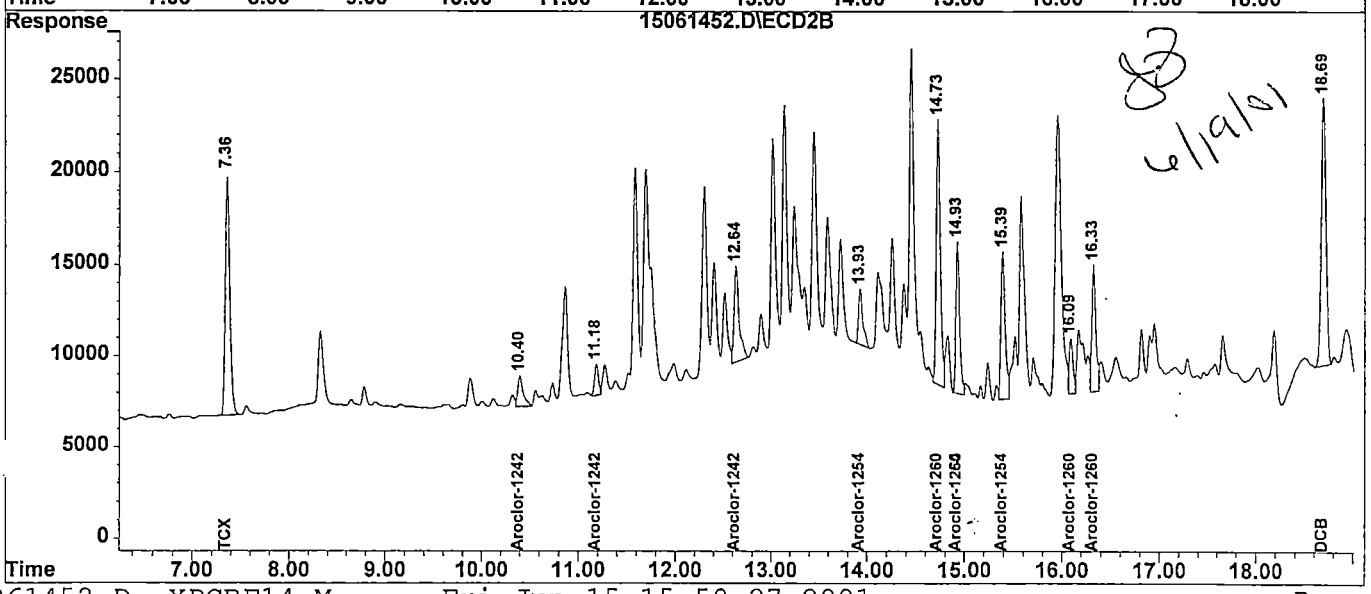
Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061452.D\ECD1A.CH Vial: 52
Acq On : 15 Jun 2001 13:39 Operator: DDC
Sample : 46702.24 *E00G7 * Inst : HP_15
Misc : *EPA*30G/5.0ML*75 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061452.D\ECD2B.CH Vial: 52
Acq On : 15 Jun 2001 13:39 Operator: DDC
Sample : 46702.24 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 15 15:49 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

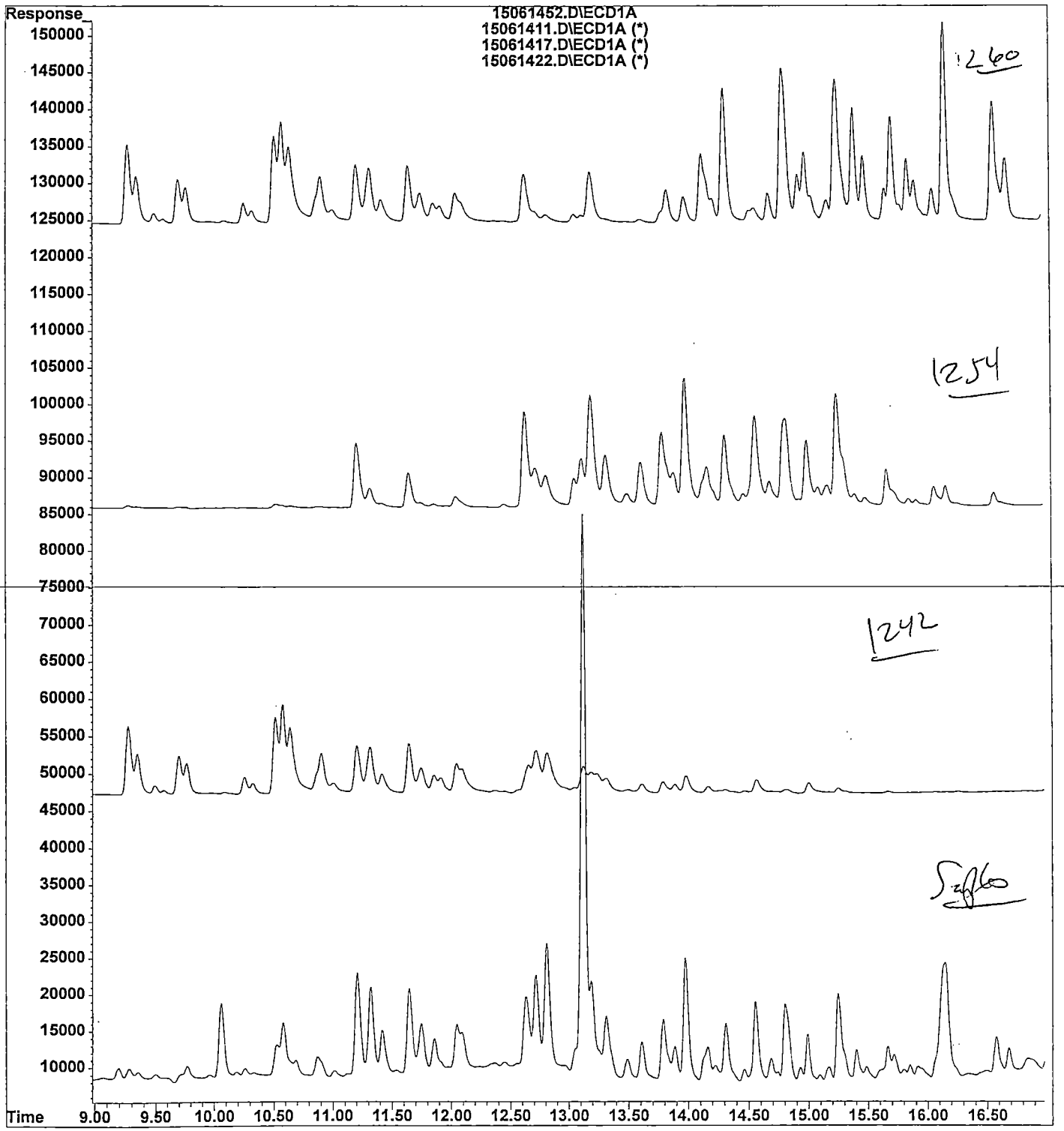
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





83
6/19/01

File : F:\HPCHEM\HP\15\DATA\06_14_01\15061452.D
Operator : DDC
Acquired : 15 Jun 2001 13:39 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46702.24
Misc Info :
Vial Number: 52



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00G8

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Matrix: (soil/water) SOIL Lab Sample ID: 46702.25

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

% Moisture: 29 decanted: (Y/N) __ Date Received: 06/07/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/07/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/15/01

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	46	U
11104-28-2	Aroclor-1221	46	U
11141-16-5	Aroclor-1232	46	U
53469-21-9	Aroclor-1242	46	U
12672-29-6	Aroclor-1248	46	U
11097-69-1	Aroclor-1254	46	U
11096-82-5	Aroclor-1260	46	U
	Surrogate amount spiked	9.33	

FORM I PCB

Quantitation Report

```
Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061453.D\ECD1A.CH Vial: 53
Acq On    : 15 Jun 2001  14:02                        Operator: DDC
Sample    : 46702.25  *E00G8  *                       Inst    : HP_15
Misc      : *EPA*30.2G/5.0ML*29                       Dilution: 1.00
IntFile   : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061453.D\ECD2B.CH Vial: 53
Acq On    : 15 Jun 2001  14:02                        Operator: DDC
Sample    : 46702.25                                  Inst    : HP_15
Misc      :                                           Dilution: 1.00
IntFile   : events2.e
Quant Time: Jun 15 15:50 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	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.60	7.36	438375	429146	8.151	8.637
	Spiked Amount 9.327			Recovery	=	87.39%	92.60%
22)	S DCB	18.29	18.70	540222	508094	9.722	10.0
	Spiked Amount 9.327			Recovery	=	104.23%	107.21%
	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

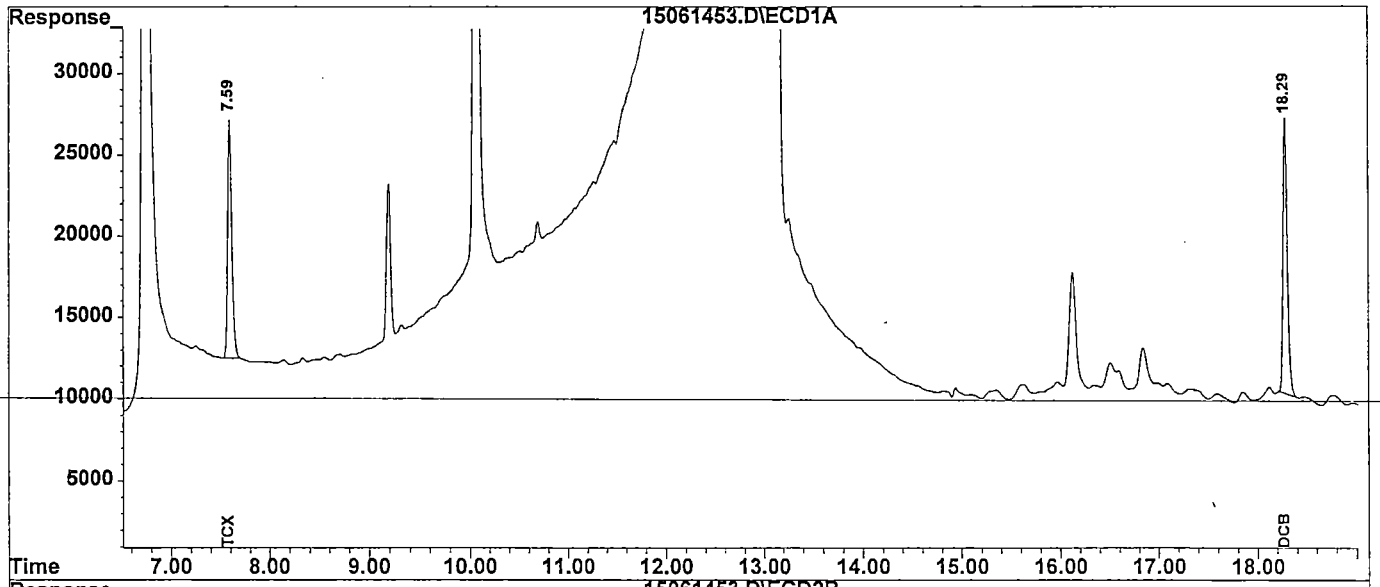
Chromatographic Report

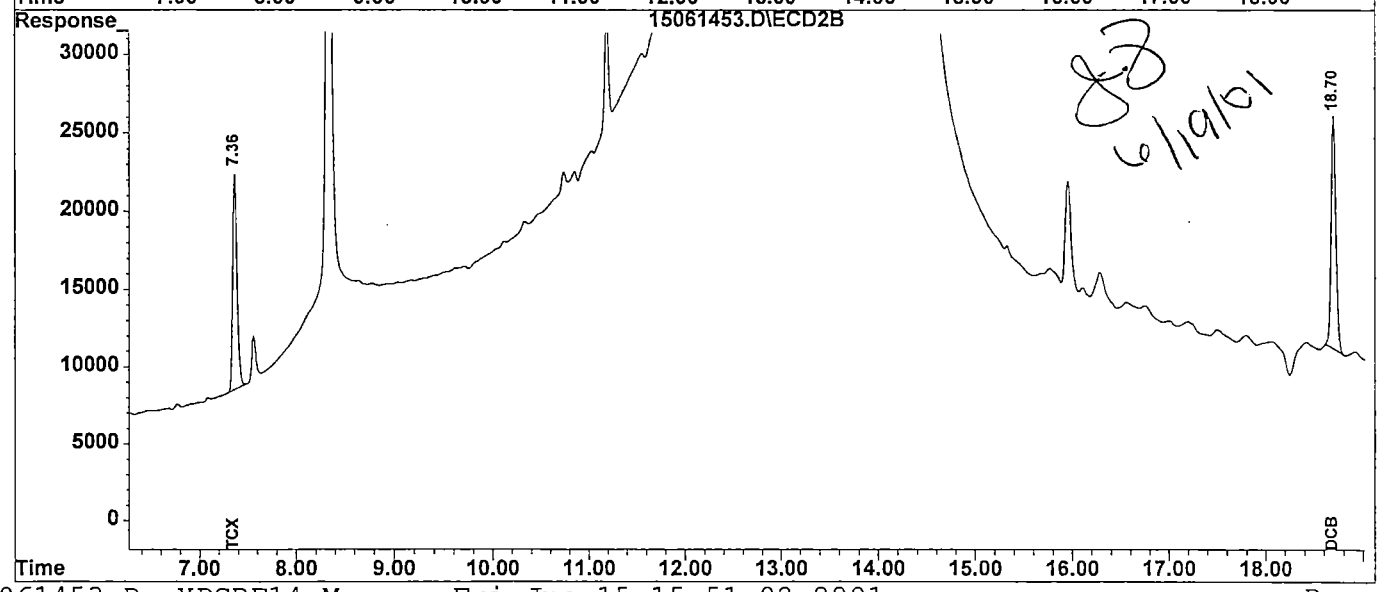
Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061453.D\ECD1A.CH Vial: 53
Acq On : 15 Jun 2001 14:02 Operator: DDC
Sample : 46702.25 *E00G8 * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*29 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061453.D\ECD2B.CH Vial: 53
Acq On : 15 Jun 2001 14:02 Operator: DDC
Sample : 46702.25 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 15 15:50 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





6/19/01

Quantitation Report

```
Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061453.D\ECD1A.CH Vial: 53
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061453.D\ECD2B.CH
Acq On    : 15 Jun 2001  14:02                        Operator: DDC
Sample    : 46702.25  *E00G8  *                       Inst    : HP_15
Misc      : *EPA*30.2G/5.0ML*29                       Dilution: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e
Quant Time: Jun 15 15:50 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	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.60	7.36	438375	429146	8.151	8.637
	Spiked Amount 9.327			Recovery	=	87.39%	92.60%
22)	S DCB	18.29	18.70	540222	508094	9.722	10.0
	Spiked Amount 9.327			Recovery	=	104.23%	107.21%
	Target Compounds:						

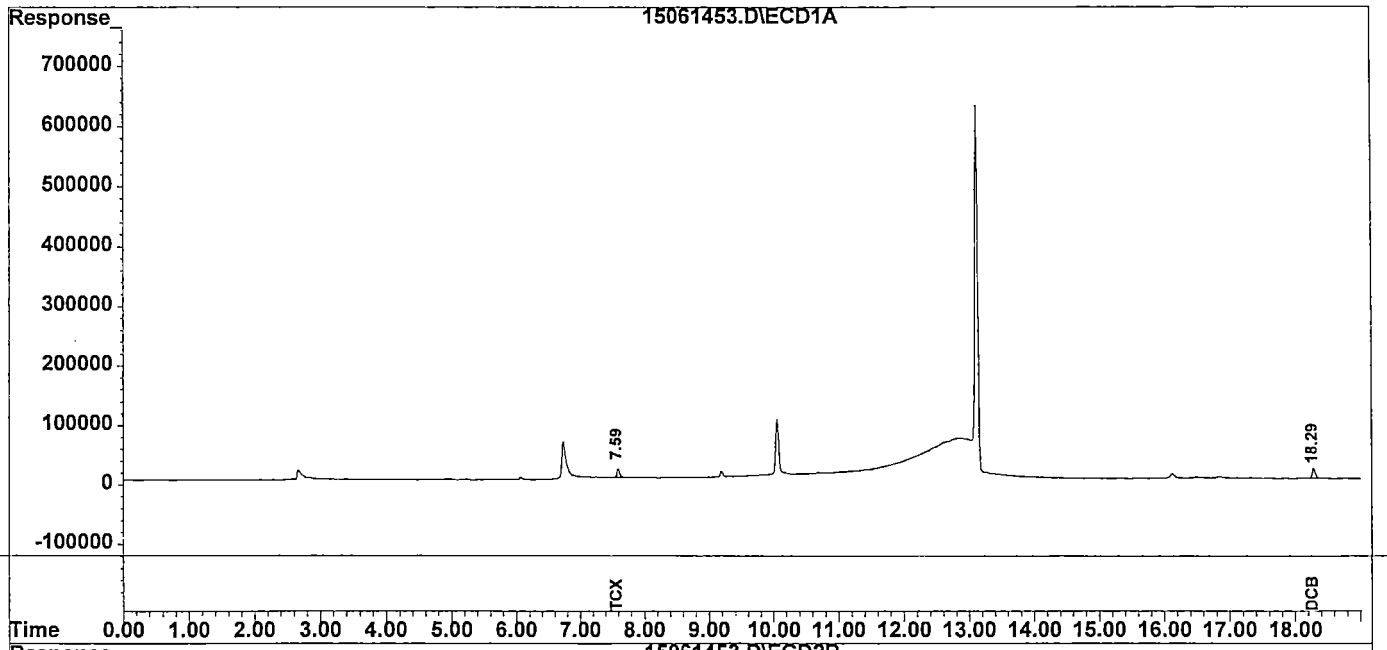
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

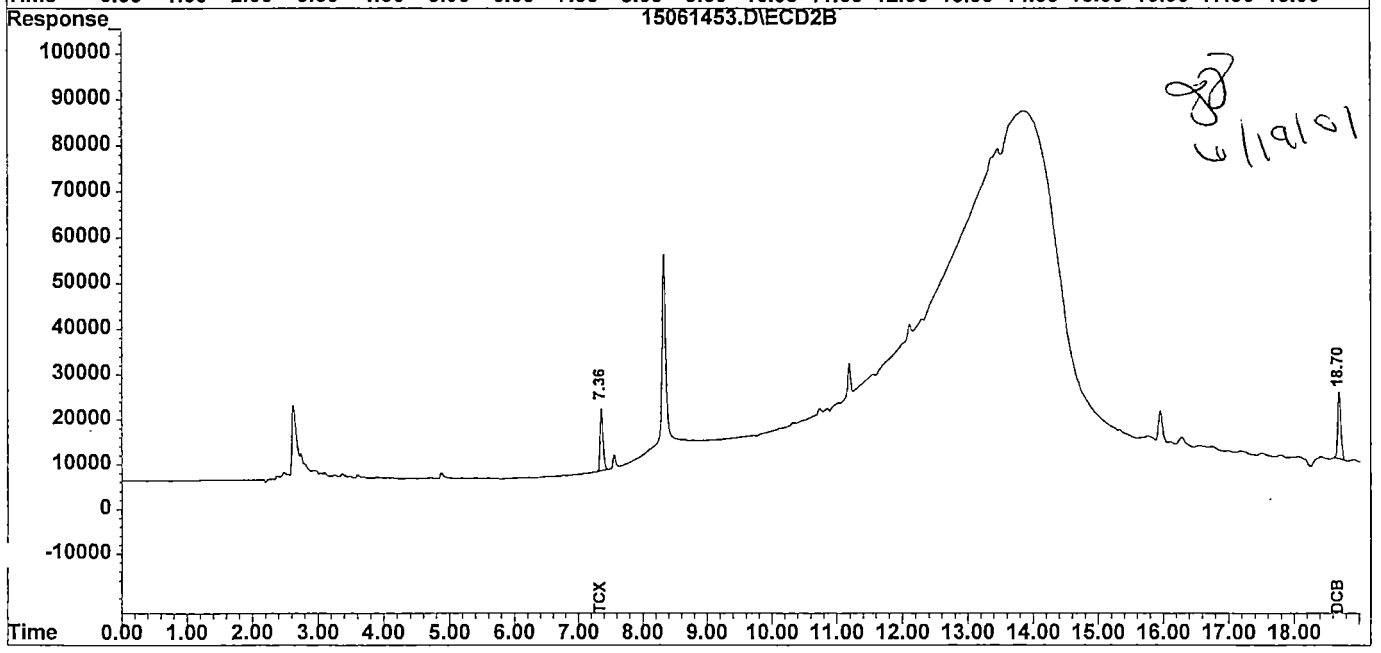
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061453.D\ECD1A.CH Vial: 53
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061453.D\ECD2B.CH
Acq On : 15 Jun 2001 14:02 Operator: DDC
Sample : 46702.25 *E00G8 * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*29 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 15:50 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





6/19/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00G9

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Matrix: (soil/water) SOIL Lab Sample ID: 46702.26

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

% Moisture: 24 decanted: (Y/N) __ Date Received: 06/07/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/07/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/15/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 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	43	U
12672-29-6	Aroclor-1248	43	U
11097-69-1	Aroclor-1254	43	U
11096-82-5	Aroclor-1260	43	U
	Surrogate amount spiked	8.63	

Quantitation Report

Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061454.D\ECD1A.CH Vial: 54
Acq On : 15 Jun 2001 14:26 Operator: DDC
Sample : 46702.26 *E00G9 * Inst : HP_15
Misc : *EPA*30.5G/5.0ML*24 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061454.D\ECD2B.CH Vial: 54
Acq On : 15 Jun 2001 14:26 Operator: DDC
Sample : 46702.26 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 15 15:51 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	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.60	7.36	289661	282205	4.982	5.254
	Spiked Amount 8.628			Recovery	=	57.74%	60.89%
22)	S DCB	18.29	18.70	394851	358347	6.573	6.524
	Spiked Amount 8.628			Recovery	=	76.18%	75.61%
	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

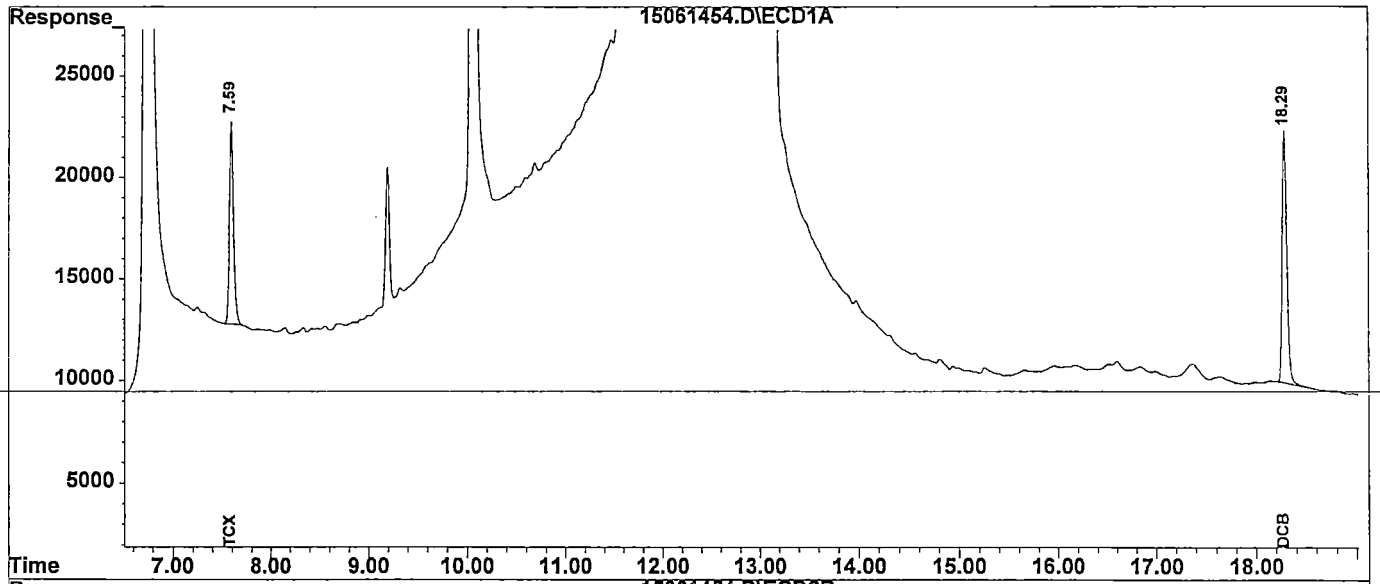
Chromatographic Report

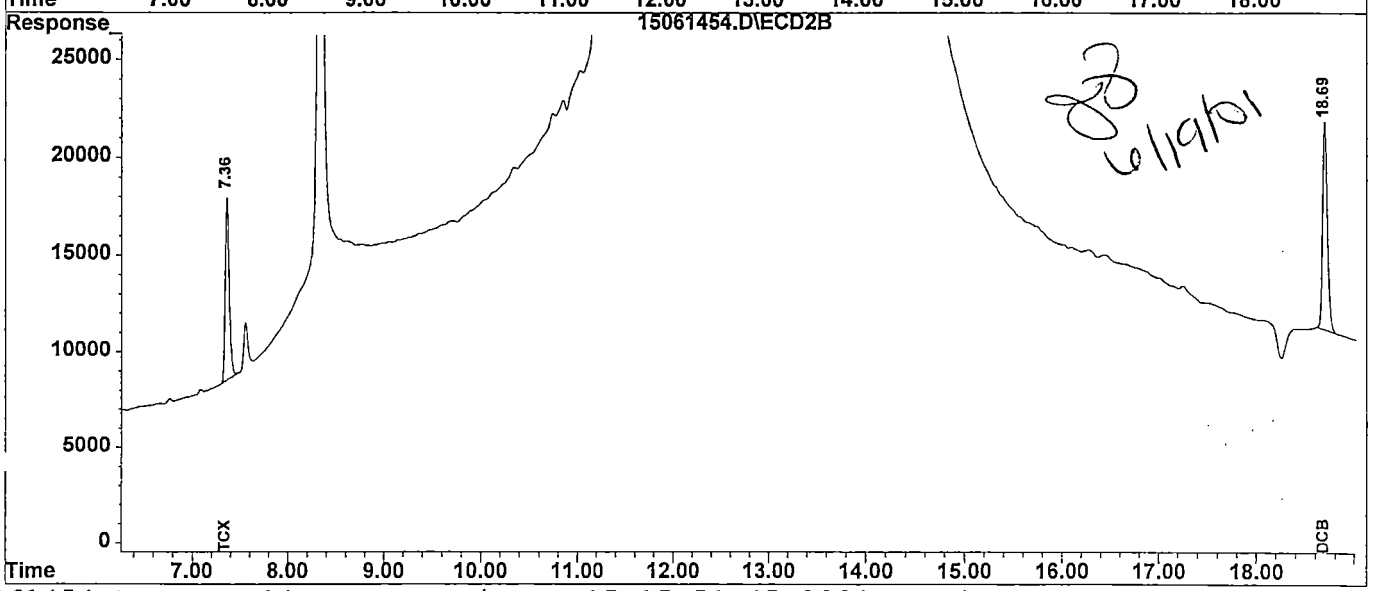
Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061454.D\ECD1A.CH Vial: 54
Acq On : 15 Jun 2001 14:26 Operator: DDC
Sample : 46702.26 *E00G9 * Inst : HP_15
Misc : *EPA*30.5G/5.0ML*24 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_14_01\15061454.D\ECD2B.CH Vial: 54
Acq On : 15 Jun 2001 14:26 Operator: DDC
Sample : 46702.26 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 15 15:51 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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Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061454.D\ECD1A.CH Vial: 54
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061454.D\ECD2B.CH
Acq On : 15 Jun 2001 14:26 Operator: DDC
Sample : 46702.26 *E00G9 * Inst : HP_15
Misc : *EPA*30.5G/5.0ML*24 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 15:51 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	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.60	7.36	289661	282205	4.982	5.254
	Spiked Amount 8.628			Recovery	=	57.74%	60.89%
22)	S DCB	18.29	18.70	394851	358347	6.573	6.524
	Spiked Amount 8.628			Recovery	=	76.18%	75.61%
	Target Compounds:						

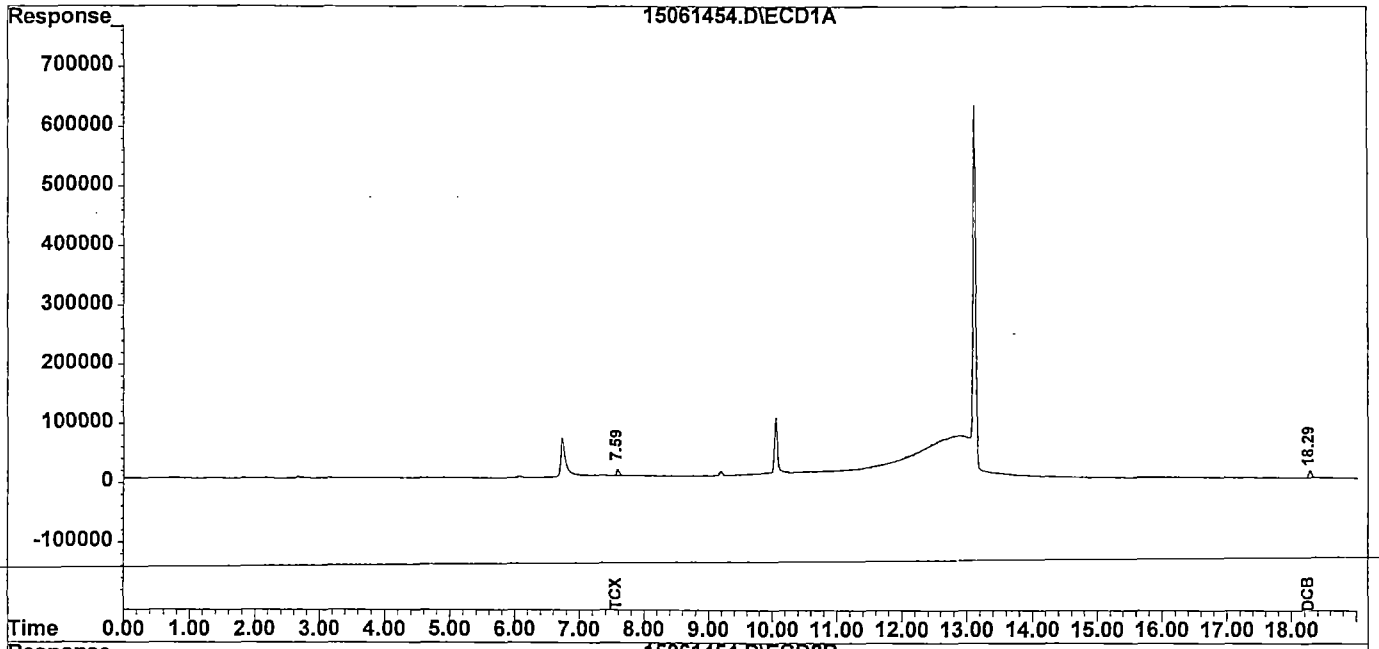
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

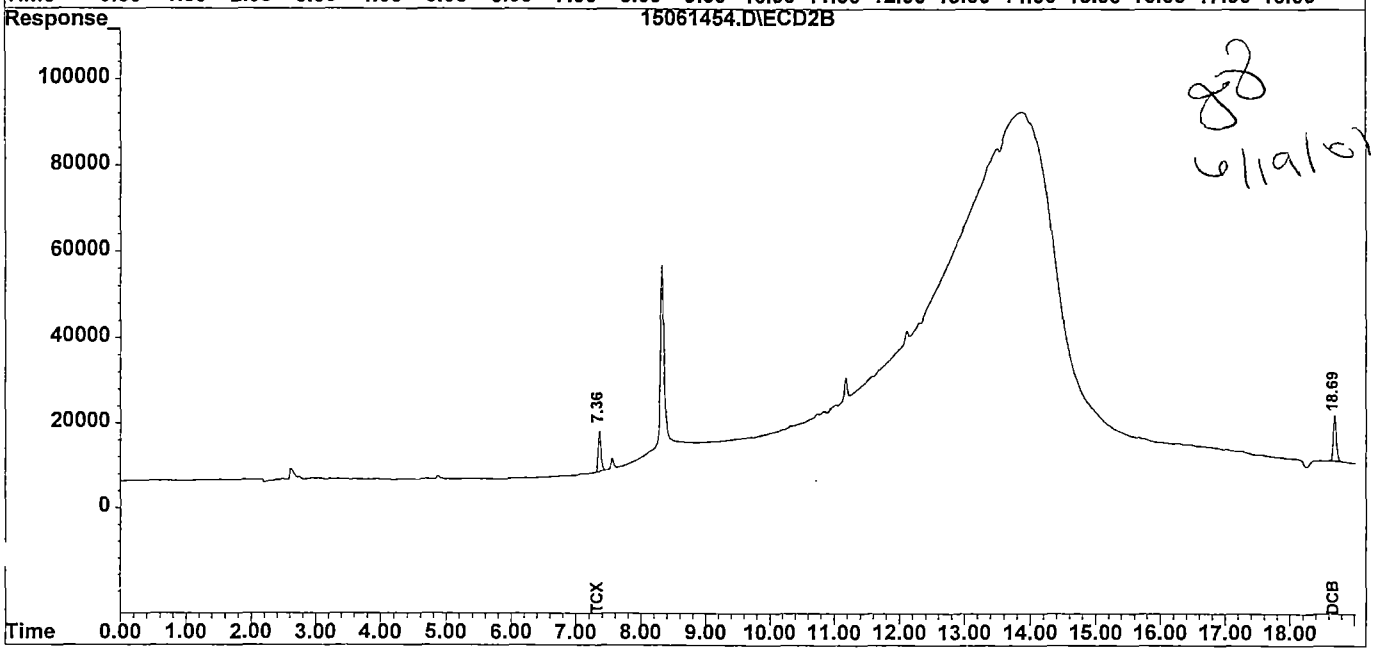
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061454.D\ECD1A.CH Vial: 54
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061454.D\ECD2B.CH
Acq On : 15 Jun 2001 14:26 Operator: DDC
Sample : 46702.26 *E00G9 * Inst : HP_15
Misc : *EPA*30.5G/5.0ML*24 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 15:51 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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6/19/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00H0

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Matrix: (soil/water) SOIL Lab Sample ID: 46702.27

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

% Moisture: 28 decanted: (Y/N) __ Date Received: 06/07/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/07/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/15/01

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	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	3.5	J
11096-82-5	Aroclor-1260	45	U
Surrogate amount spiked		9.17	

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061461.D\ECD1A.CH Vial: 61
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061461.D\ECD2B.CH
Acq On : 15 Jun 2001 17:09 Operator: DDC
Sample : 46702.27 *E00H0 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*28 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 16 11:20 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	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.60	7.36	336202	321071	6.144	6.351	
	Spiked Amount 9.168			Recovery	=	67.02%	69.28%	
22)	S DCB	18.29	18.70	414931	386401	7.339	7.475	
	Spiked Amount 9.168			Recovery	=	80.05%	81.54%	
	Target Compounds:							
12)	L6 Aroclor-1254	0.00	12.31	0	3800	N.D. d	4.817m	#
13)	L6 Aroclor-1254 {2}	13.27f	14.93f	8416	3600	5.199	3.473m	#
14)	L6 Aroclor-1254 {3}	13.79	0.00	5148	0	2.287	N.D.	#
15)	L6 Aroclor-1254 {4}	14.32	0.00	4866	0	2.411	N.D.	#
16)	L6 Aroclor-1254 {5}	15.00	15.40	9075	4630	5.346	2.320	#
	Sum Aroclor-1254			27505	12030	15.2	10.6	
	Average Aroclor-1254					3.811	3.537	

DN 6-16-01

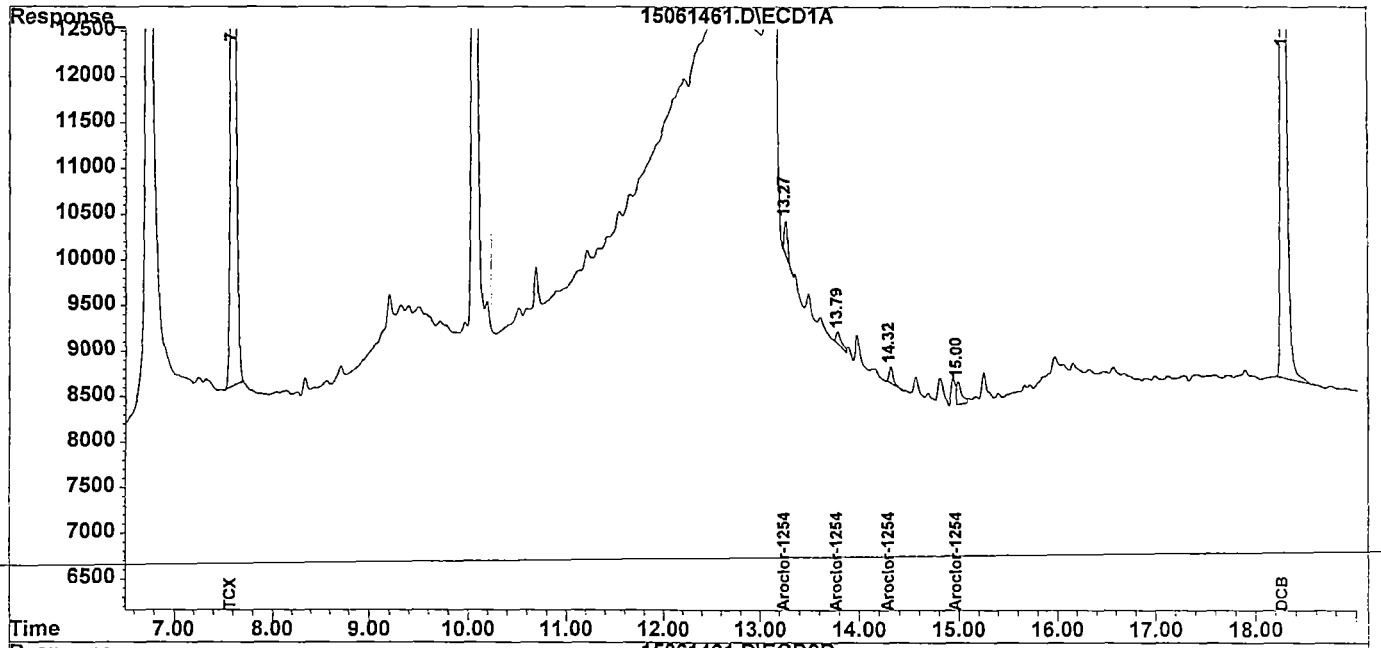
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

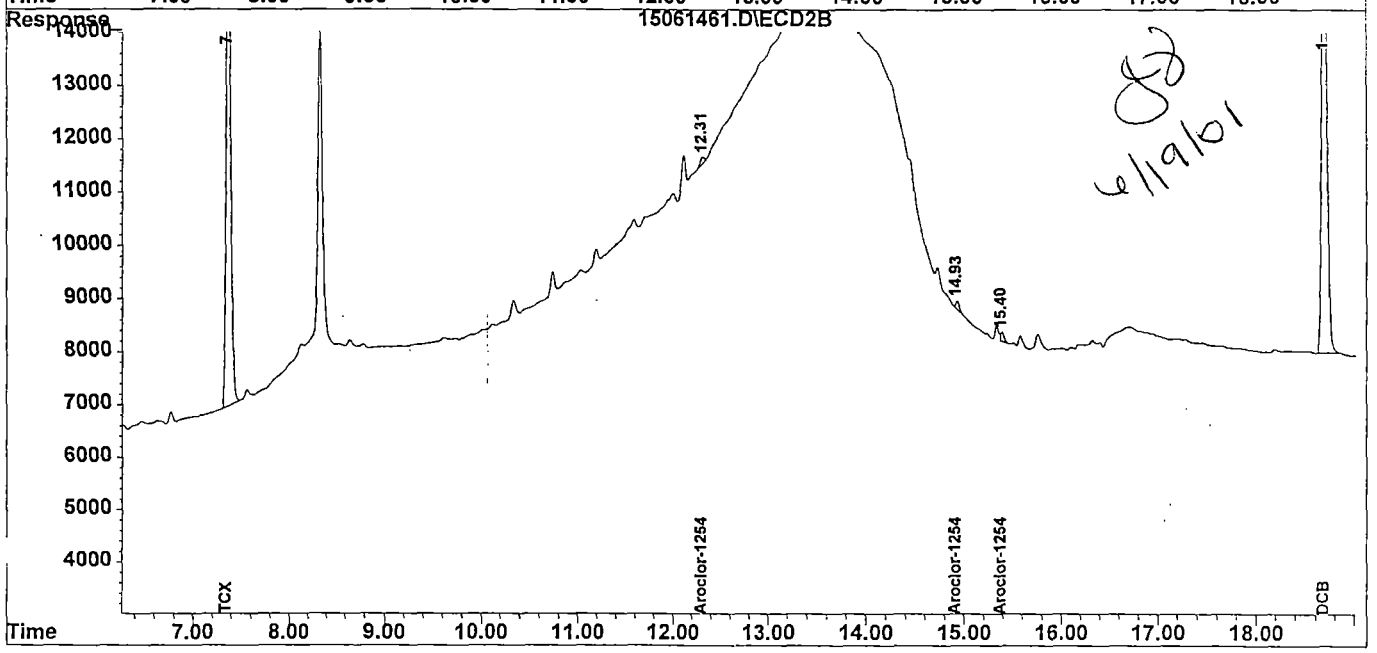
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061461.D\ECD1A.CH Vial: 61
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061461.D\ECD2B.CH
Acq On : 15 Jun 2001 17:09 Operator: DDC
Sample : 46702.27 *E00H0 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*28 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 16 11:20 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

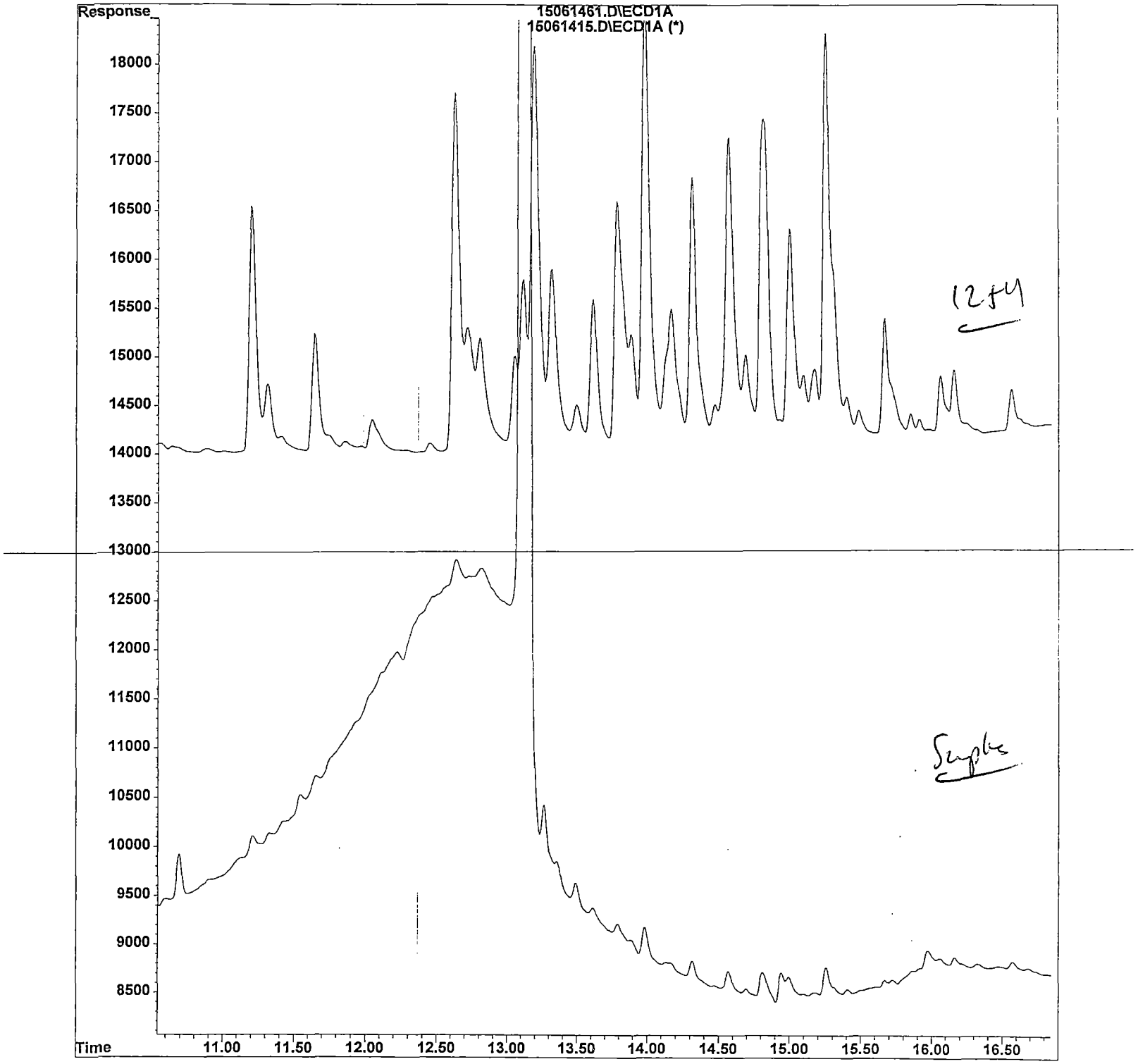
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





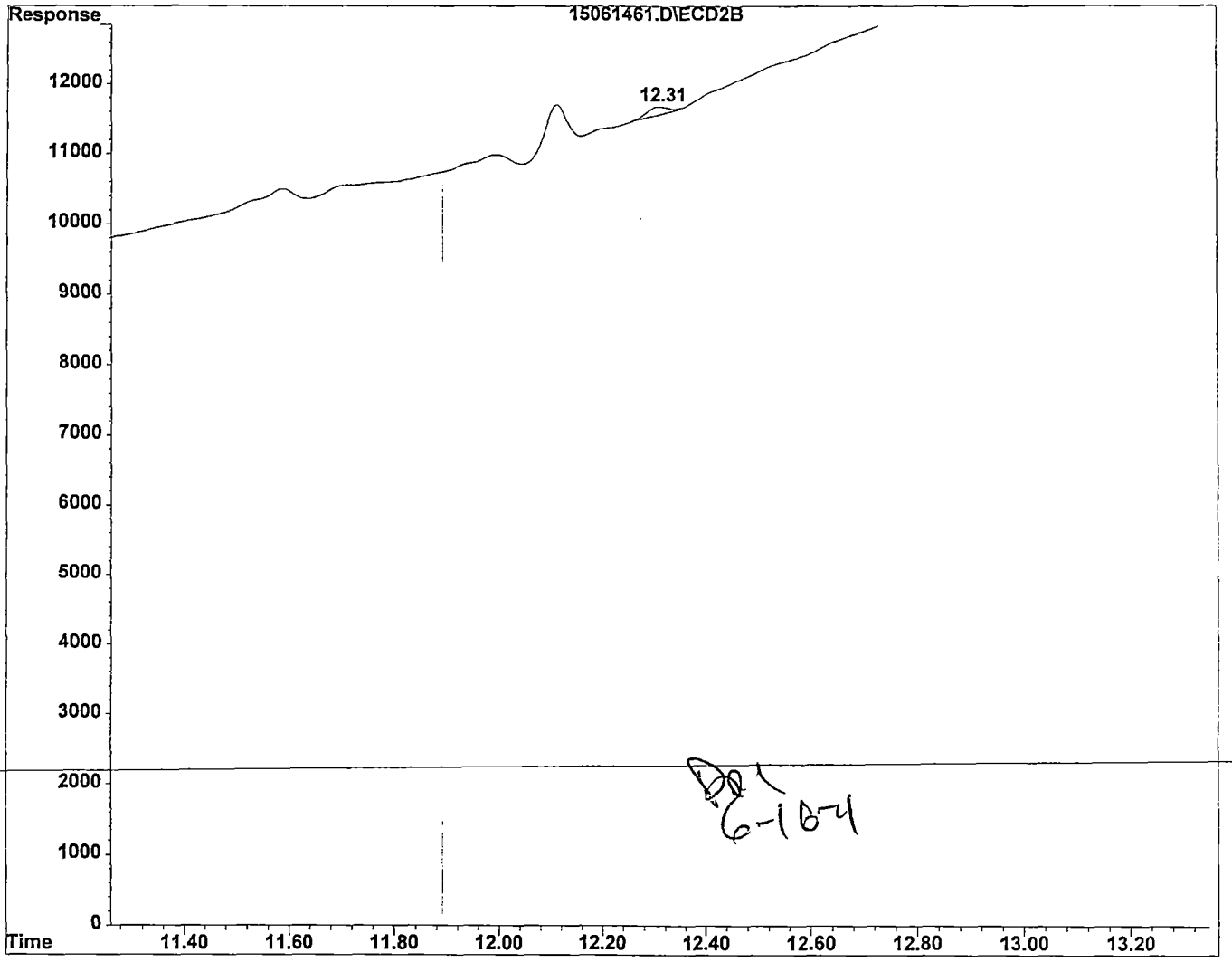
6/19/01

File : F:\HPCHEM\HP\15\DATA\06_14_01\15061461.D
Operator : DDC
Acquired : 15 Jun 2001 17:09 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46702.27 *E00H0 *
Misc Info : *EPA*30.3G/5.0ML*28
Vial Number: 61



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_14_01\15061461.D
Date Acquired: 15 Jun 2001 17:09
Inst: HP_15 Operator ID: DDC
Name: 46702.27 *E00H0 *
Misc: *EPA*30.3G/5.0ML*28
Method: F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 16 11:20 2001 Quant Results File: XPCBF14.RES



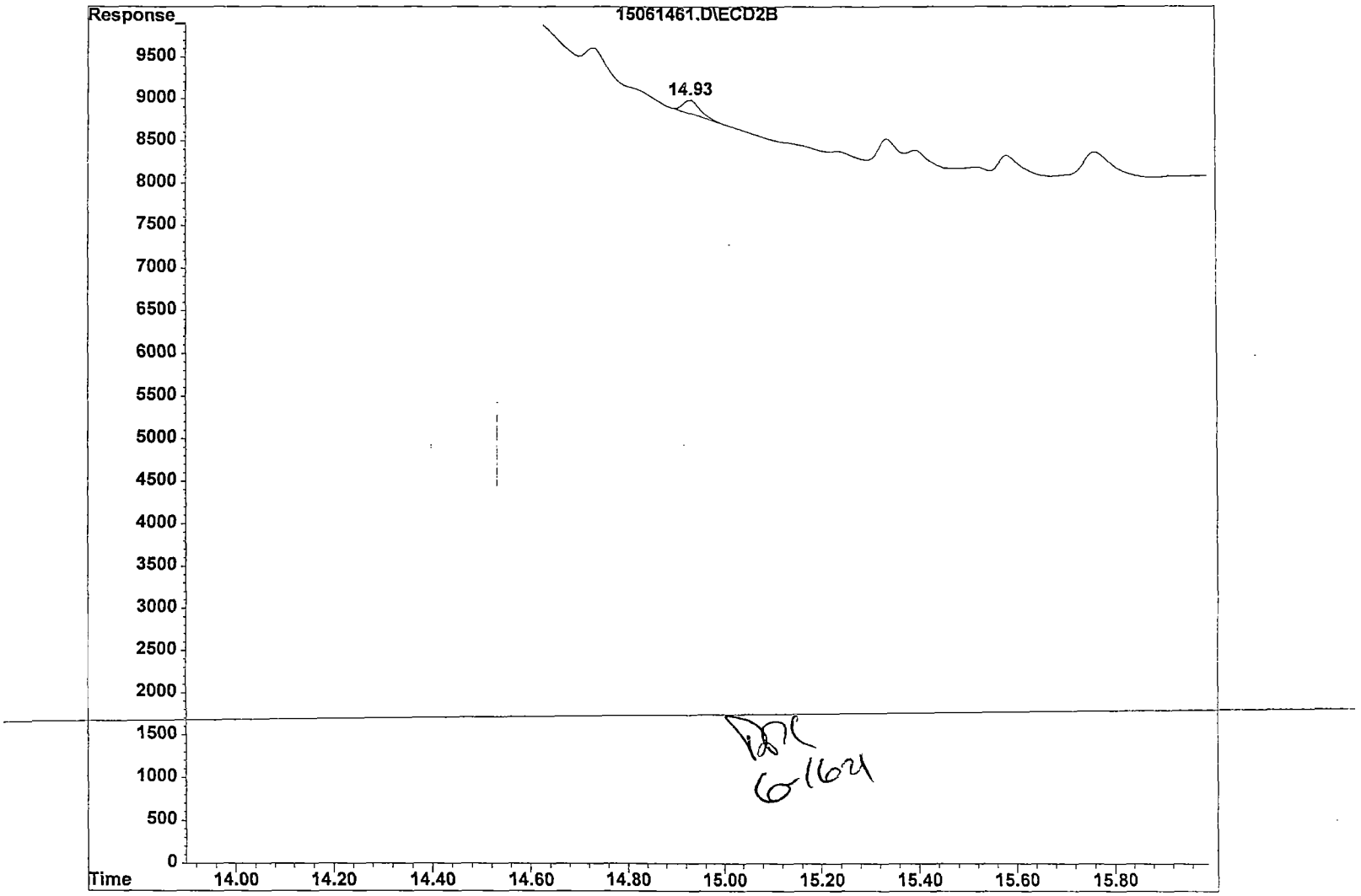
Aroclor-1254 #2 12.31min area: 3800 m

Integration Time Range: 12.26 - 12.35

F:\HPCHEM\HP\15\DATA\06_14_01\15061461.D
Report generated: Sat Jun 16 11:20:51 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_14_01\15061461.D
Date Acquired: 15 Jun 2001 17:09
Inst: HP_15 Operator ID: DDC
Name: 46702.27 *E00H0 *
Misc: *EPA*30.3G/5.0ML*28
Method: F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 16 11:20 2001 Quant Results File: XPCBF14.RES



Aroclor-1254 {2} #2 14.93min area: 3600 m

Integration Time Range: 14.90 - 14.99

F:\HPCHEM\HP\15\DATA\06_14_01\15061461.D
Report generated: Sat Jun 16 11:20:51 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061461.D\ECD1A.CH Vial: 61
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061461.D\ECD2B.CH
Acq On : 15 Jun 2001 17:09 Operator: DDC
Sample : 46702.27 *E00H0 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*28 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 16 11:20 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	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.60	7.36	336202	321071	6.144	6.351	
	Spiked Amount 9.168			Recovery	=	67.02%	69.28%	
22)	S DCB	18.29	18.70	414931	386401	7.339	7.475	
	Spiked Amount 9.168			Recovery	=	80.05%	81.54%	
	Target Compounds:							
12)	L6 Aroclor-1254	0.00	12.31	0	3800	N.D. d	4.817m	#
13)	L6 Aroclor-1254 {2}	13.27f	14.93f	8416	3600	5.199	3.473m	#
14)	L6 Aroclor-1254 {3}	13.79	0.00	5148	0	2.287	N.D.	#
15)	L6 Aroclor-1254 {4}	14.32	0.00	4866	0	2.411	N.D.	#
16)	L6 Aroclor-1254 {5}	15.00	15.40	9075	4630	5.346	2.320	#
	Sum Aroclor-1254			27505	12030	15.2	10.6	
	Average Aroclor-1254					3.811	3.537	

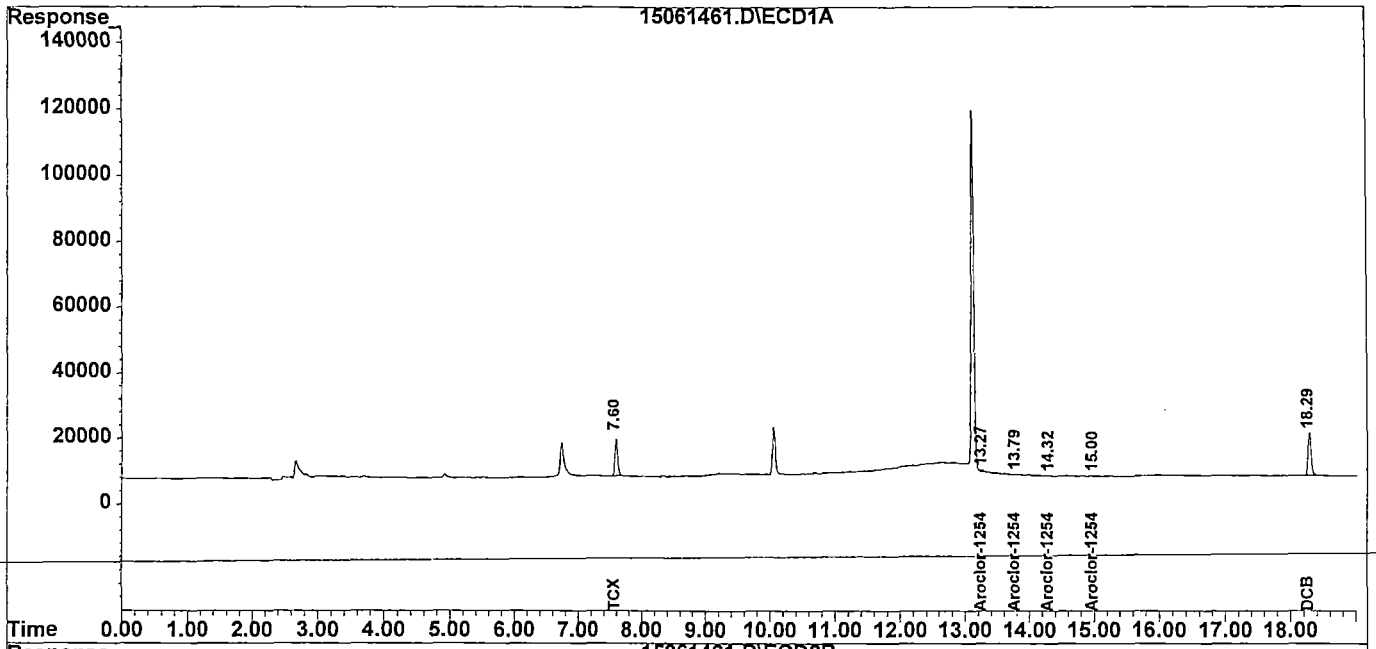
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

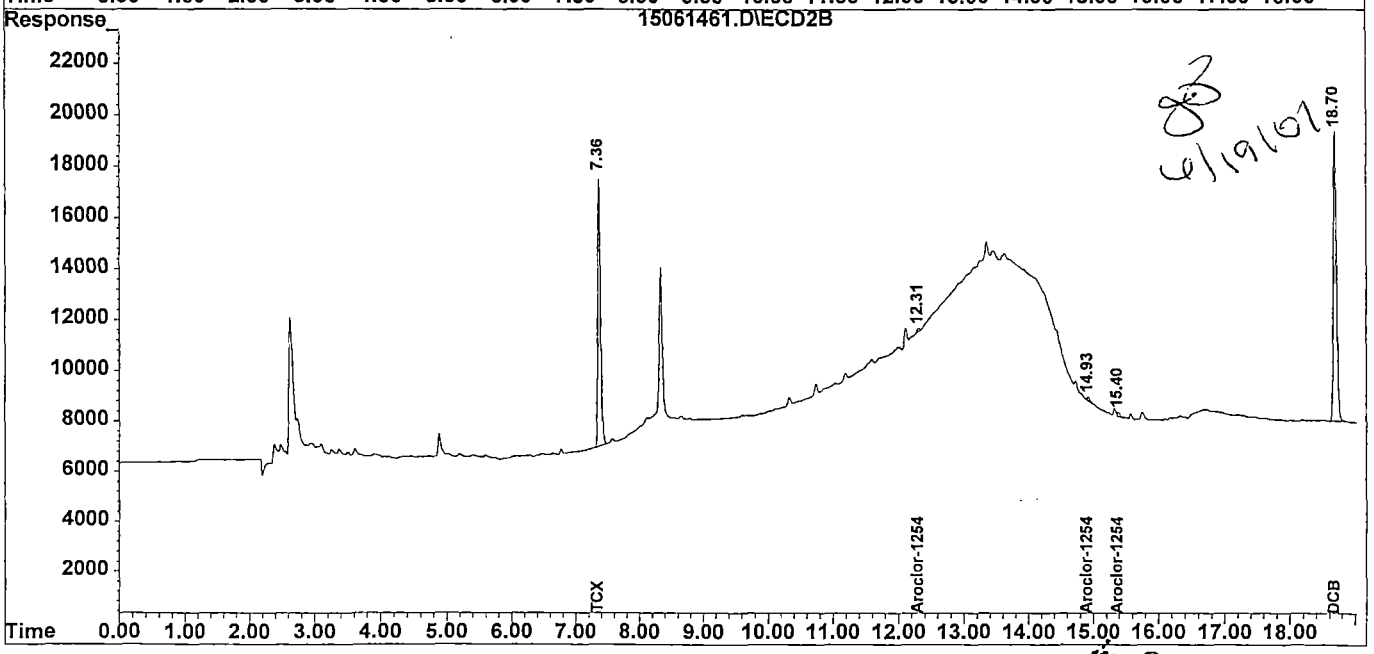
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061461.D\ECD1A.CH Vial: 61
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061461.D\ECD2B.CH
Acq On : 15 Jun 2001 17:09 Operator: DDC
Sample : 46702.27 *E00H0 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*28 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 16 11:20 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





6/19/07

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00H1

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Matrix: (soil/water) SOIL Lab Sample ID: 46702.28

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

% Moisture: 31 decanted: (Y/N) __ Date Received: 06/07/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/07/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/15/01

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	48	U ~~UJ~~
11104-28-2	Aroclor-1221	48	U ~~UJ~~
11141-16-5	Aroclor-1232	48	U ~~UJ~~
53469-21-9	Aroclor-1242	13	J
12672-29-6	Aroclor-1248	48	U ~~UJ~~
11097-69-1	Aroclor-1254	10	JP ~~JP~~ J
11096-82-5	Aroclor-1260	48	U ~~UJ~~
Surrogate amount spiked		9.60	

TBS 7/7/01
*TBS 7/13/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061462.D\ECD1A.CH Vial: 62
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061462.D\ECD2B.CH
Acq On : 15 Jun 2001 17:32 Operator: DDC
Sample : 46702.28 *E00H1 * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*31 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 16 8:05 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	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.60	7.36	448159	434927	8.575	9.007	
	Spiked Amount 9.598			Recovery	=	89.34%	93.84%	
22)	S DCB	18.29	18.70	550169	518948	10.2	10.5	
	Spiked Amount 9.598			Recovery	=	106.27%	109.40%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.43	10.40	7945	12620	6.552	21.5	#
8)	L4 Aroclor-1242 {2}	9.71	11.19	8112	23275	9.943	23.3	#
9)	L4 Aroclor-1242 {3}	10.59f	12.41	42317	9086	20.0	16.2	
10)	L4 Aroclor-1242 {4}	11.65	12.64	16432	13169	13.7	20.6	#
11)	L4 Aroclor-1242 {5}	12.82	13.15	25460	12677	15.3	14.2	
	Sum Aroclor-1242			100265	70827	65.6	95.8	
	Average Aroclor-1242					13.114	19.151	
12)	L6 Aroclor-1254	12.64	12.31	24290	16461	10.0	21.8	#
13)	L6 Aroclor-1254 {2}	13.27f	13.03	74642	14222	48.3	14.4	#
14)	L6 Aroclor-1254 {3}	0.00	13.93	0	5604	N.D. d	5.187	#
15)	L6 Aroclor-1254 {4}	14.32	14.93	11135	9942	5.776	6.447	
16)	L6 Aroclor-1254 {5}	15.00	15.40	14838	9046	9.150	4.745	#
	Sum Aroclor-1254			124904	55276	73.2	52.6	
	Average Aroclor-1254					18.311	10.518	

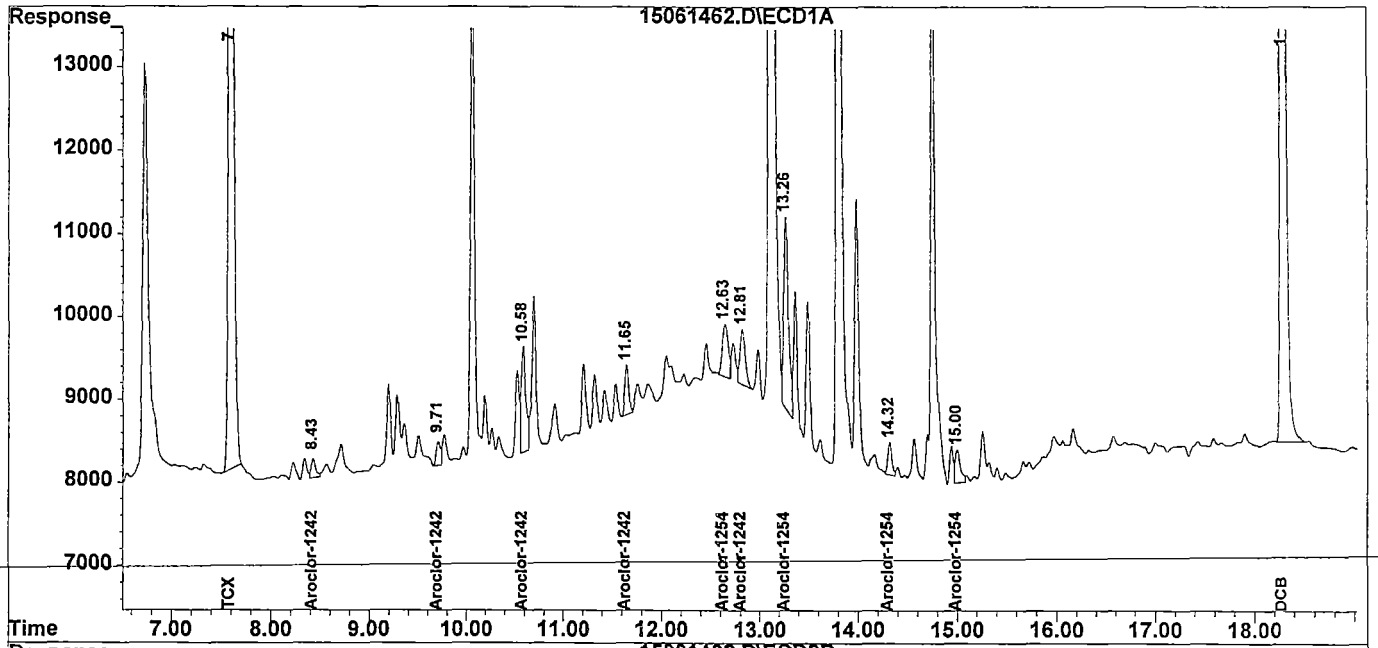
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

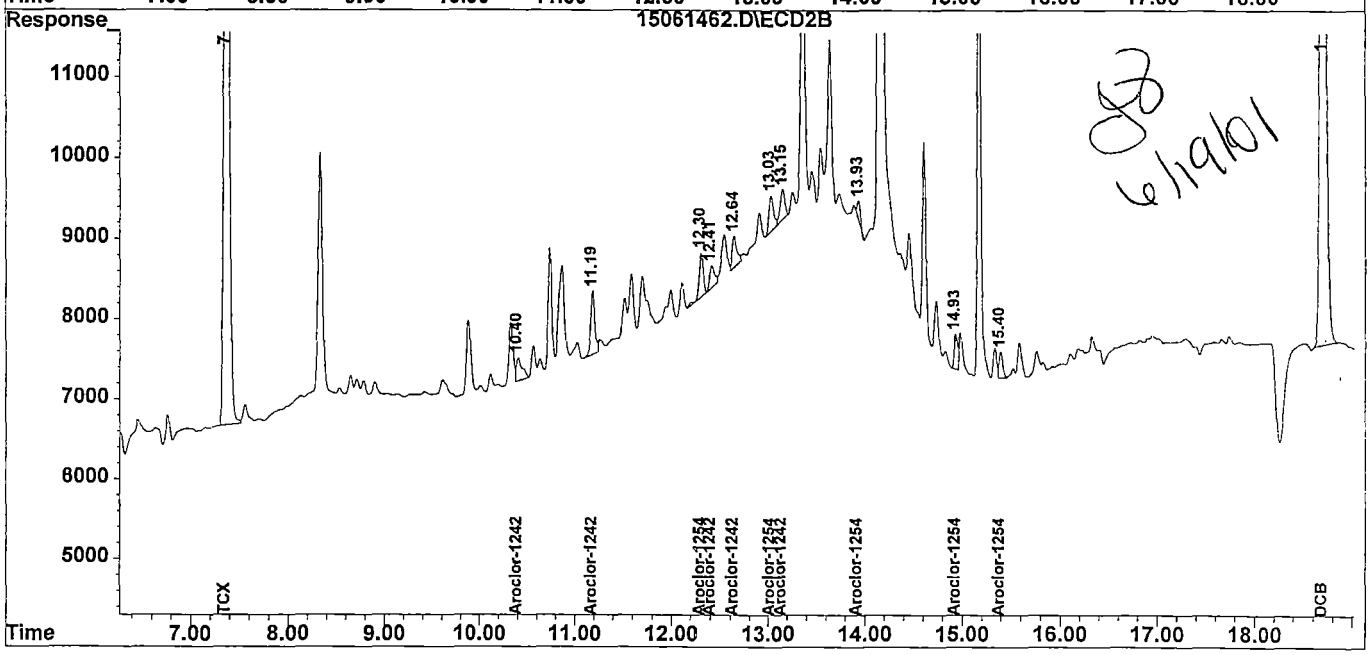
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061462.D\ECD1A.CH Vial: 62
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061462.D\ECD2B.CH
Acq On : 15 Jun 2001 17:32 Operator: DDC
Sample : 46702.28 *E00H1 * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*31 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 16 8:05 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

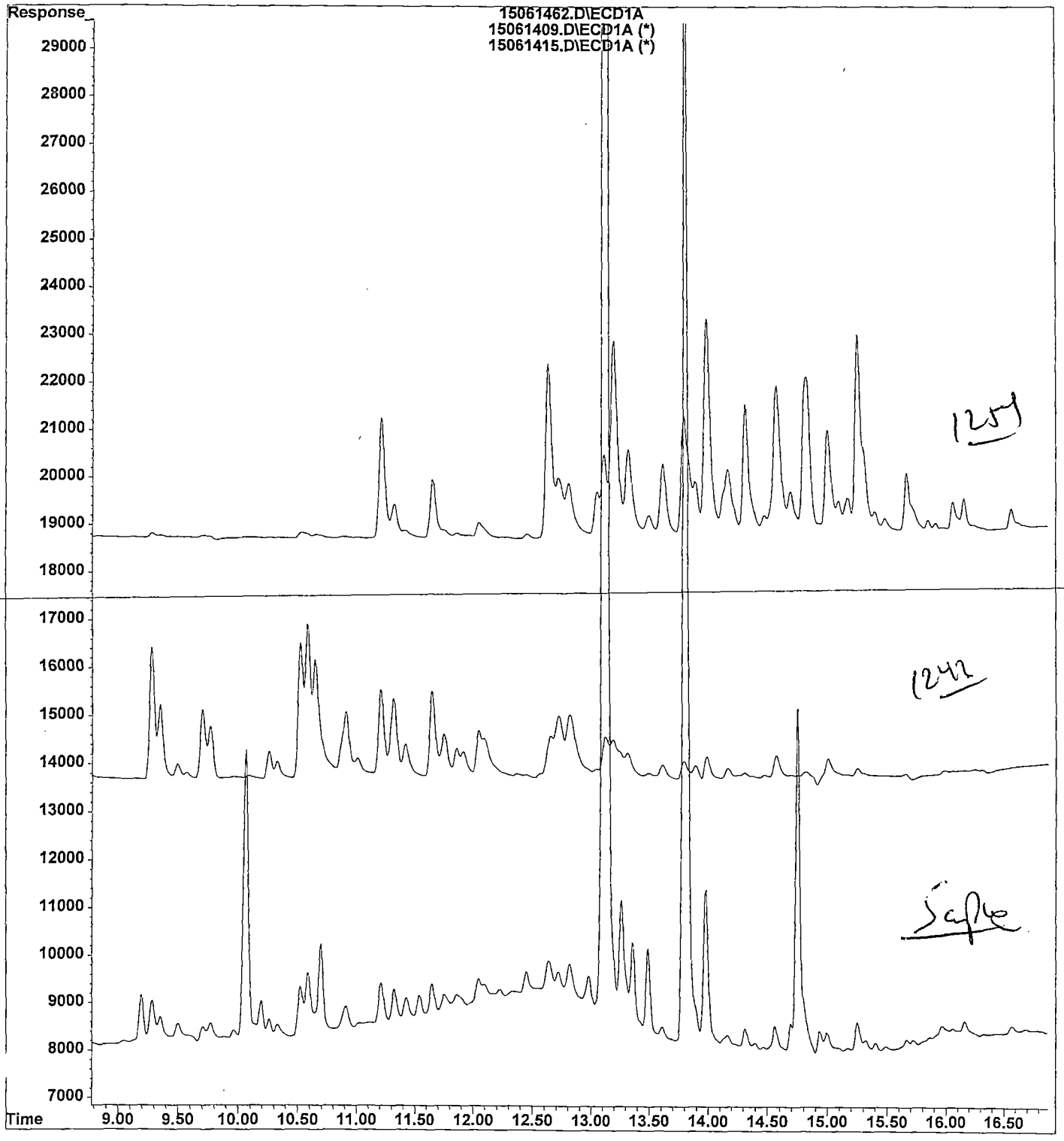
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/19/01

File : F:\HPCHEM\HP\15\DATA\06_14_01\15061462.D
Operator : DDC
Acquired : 15 Jun 2001 17:32 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46702.28 *E00H1 *
Misc Info : *EPA*30.2G/5.0ML*31
Vial Number: 62



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00H3

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Matrix: (soil/water) SOIL Lab Sample ID: 46702.29

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

% Moisture: 30 decanted: (Y/N) __ Date Received: 06/07/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/07/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/15/01

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	47	U
11104-28-2	Aroclor-1221	47	U
11141-16-5	Aroclor-1232	47	U
53469-21-9	Aroclor-1242	47	U
12672-29-6	Aroclor-1248	47	U
11097-69-1	Aroclor-1254	47	U
11096-82-5	Aroclor-1260	47	U
Surrogate amount spiked		9.46	

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061463.D\ECD1A.CH Vial: 63
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061463.D\ECD2B.CH
Acq On : 15 Jun 2001 17:55 Operator: DDC
Sample : 46702.29 *E00H3 * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*30 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 16 11:23 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	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.60	7.36	485872	461247	9.164	9.416
	Spiked Amount 9.461			Recovery	=	96.86%	99.53%
22)	S DCB	18.29	18.70	577145	540007	10.5	10.8
	Spiked Amount 9.461			Recovery	=	110.99%	114.16%

Target Compounds:

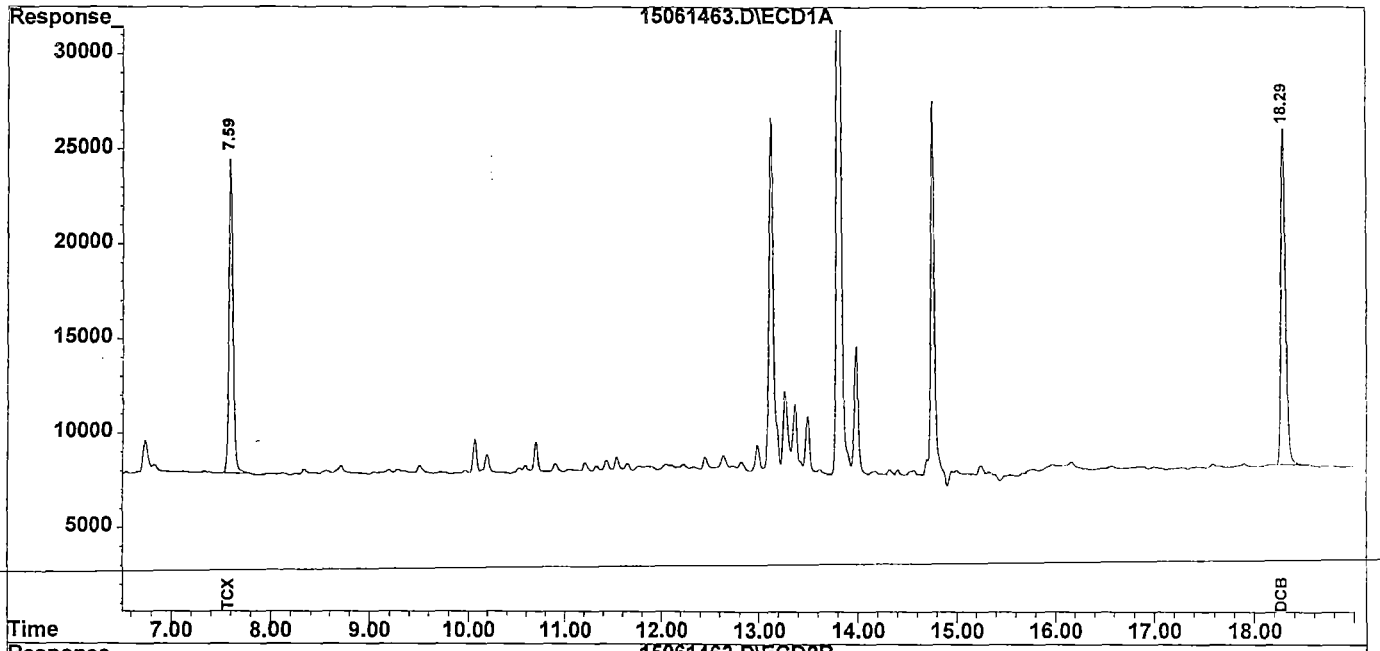
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

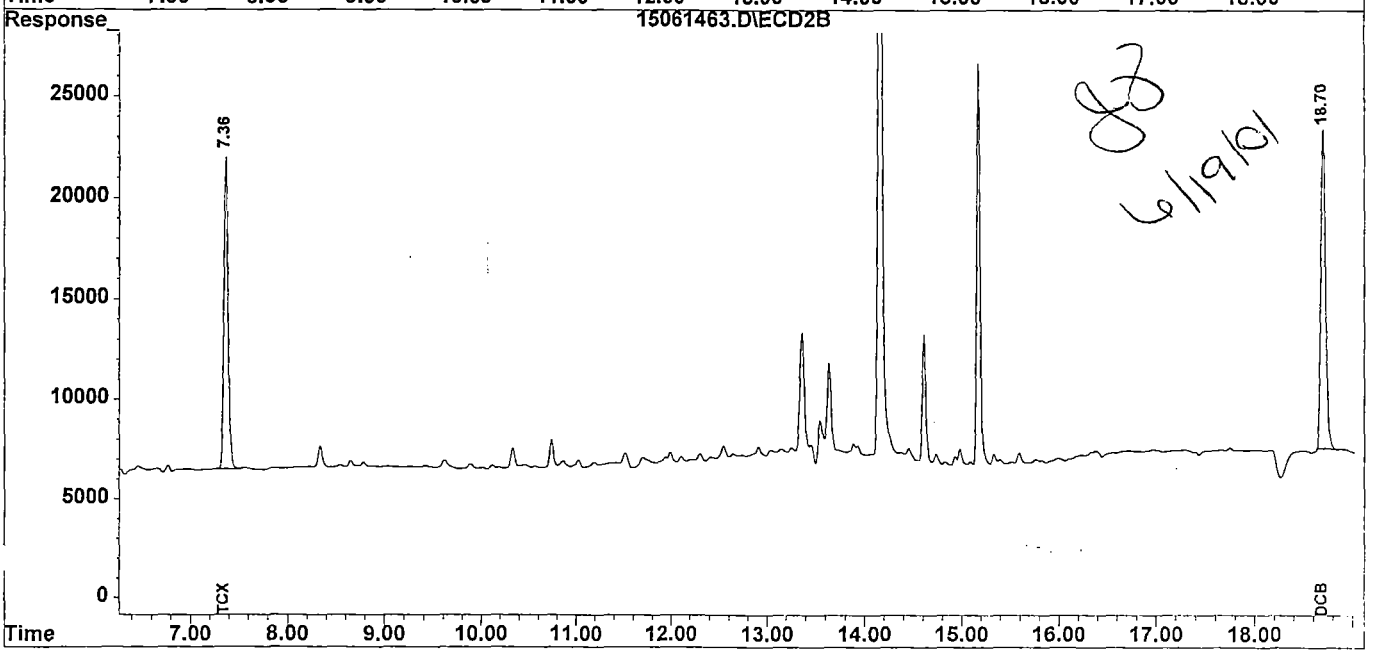
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061463.D\ECD1A.CH Vial: 63
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061463.D\ECD2B.CH
Acq On : 15 Jun 2001 17:55 Operator: DDC
Sample : 46702.29 *E00H3 * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*30 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 16 11:23 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





6/19/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00H5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Matrix: (soil/water) SOIL Lab Sample ID: 46702.30

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

% Moisture: 70 decanted: (Y/N) __ Date Received: 06/07/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/07/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/15/01

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	110	U
11104-28-2	Aroclor-1221	110	U
11141-16-5	Aroclor-1232	110	U
53469-21-9	Aroclor-1242	110	U
12672-29-6	Aroclor-1248	110	U
11097-69-1	Aroclor-1254	110	U
11096-82-5	Aroclor-1260	110	U
	Surrogate amount spiked	22.00	

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061464.D\ECD1A.CH Vial: 64
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061464.D\ECD2B.CH
Acq On : 15 Jun 2001 18:18 Operator: DDC
Sample : 46702.30 *E00H5 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*70 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 16 8:07 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	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.60	7.36	380047	386357	16.7	18.3
	Spiked Amount 22.002			Recovery	=	75.90%	83.17%
22)	S DCB	18.29	18.70	487777	433723	20.7	20.1
	Spiked Amount 22.002			Recovery	=	94.08%	91.35%

Target Compounds:

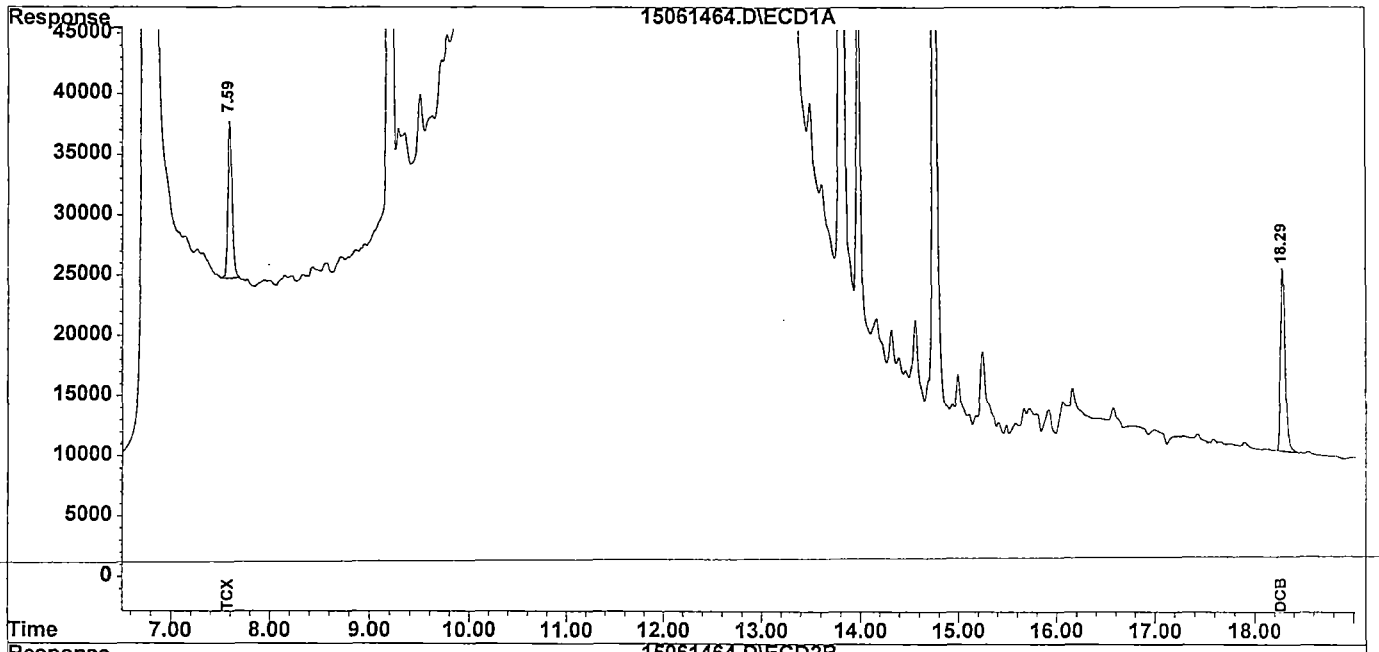
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

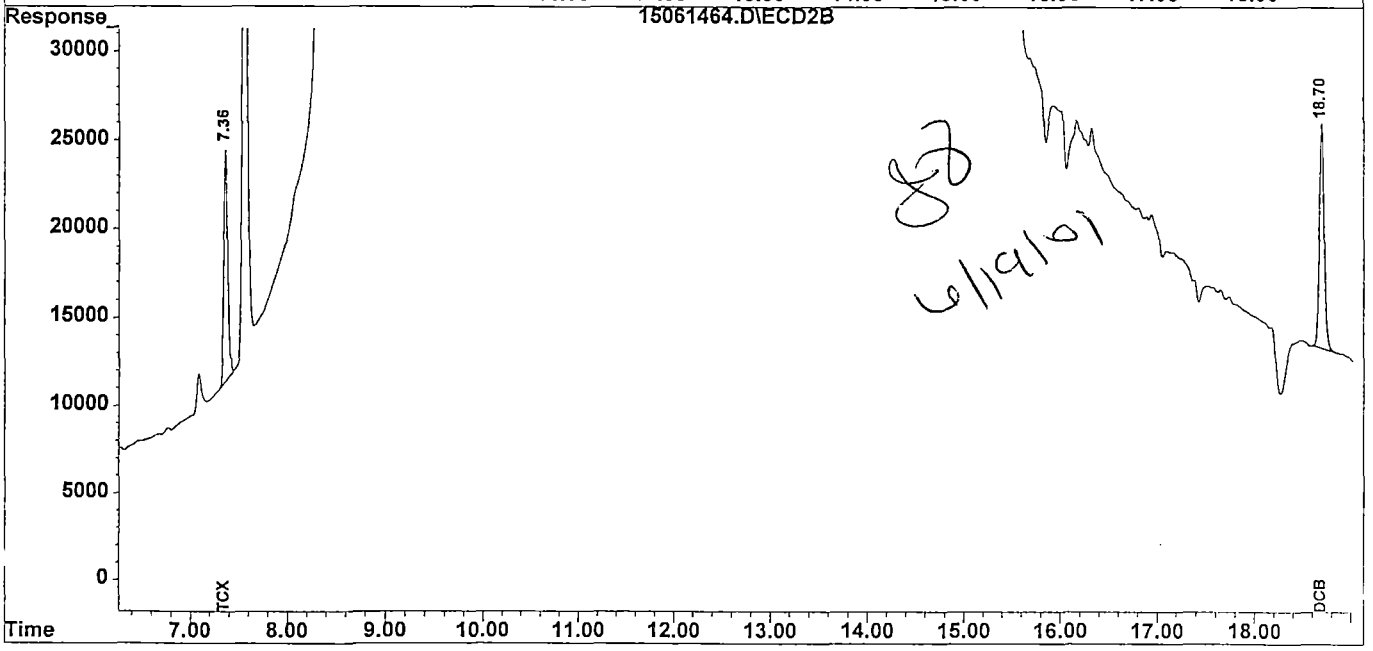
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061464.D\ECD1A.CH Vial: 64
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061464.D\ECD2B.CH
Acq On : 15 Jun 2001 18:18 Operator: DDC
Sample : 46702.30 *E00H5 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*70 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 16 8:07 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





6/19/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061464.D\ECD1A.CH Vial: 64
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061464.D\ECD2B.CH
Acq On : 15 Jun 2001 18:18 Operator: DDC
Sample : 46702.30 *E00H5 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*70 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 16 8:07 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	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.60	7.36	380047	386357	16.7	18.3
	Spiked Amount 22.002			Recovery	=	75.90%	83.17%
22)	S DCB	18.29	18.70	487777	433723	20.7	20.1
	Spiked Amount 22.002			Recovery	=	94.08%	91.35%

Target Compounds:

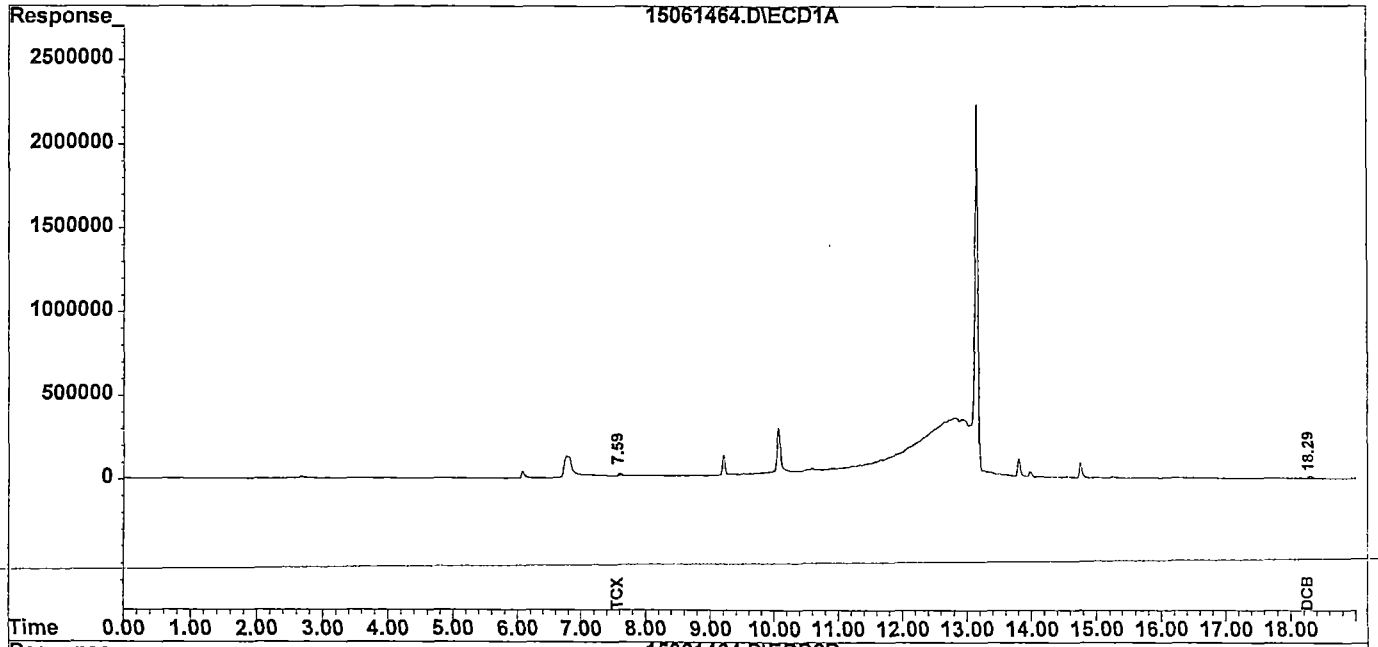
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

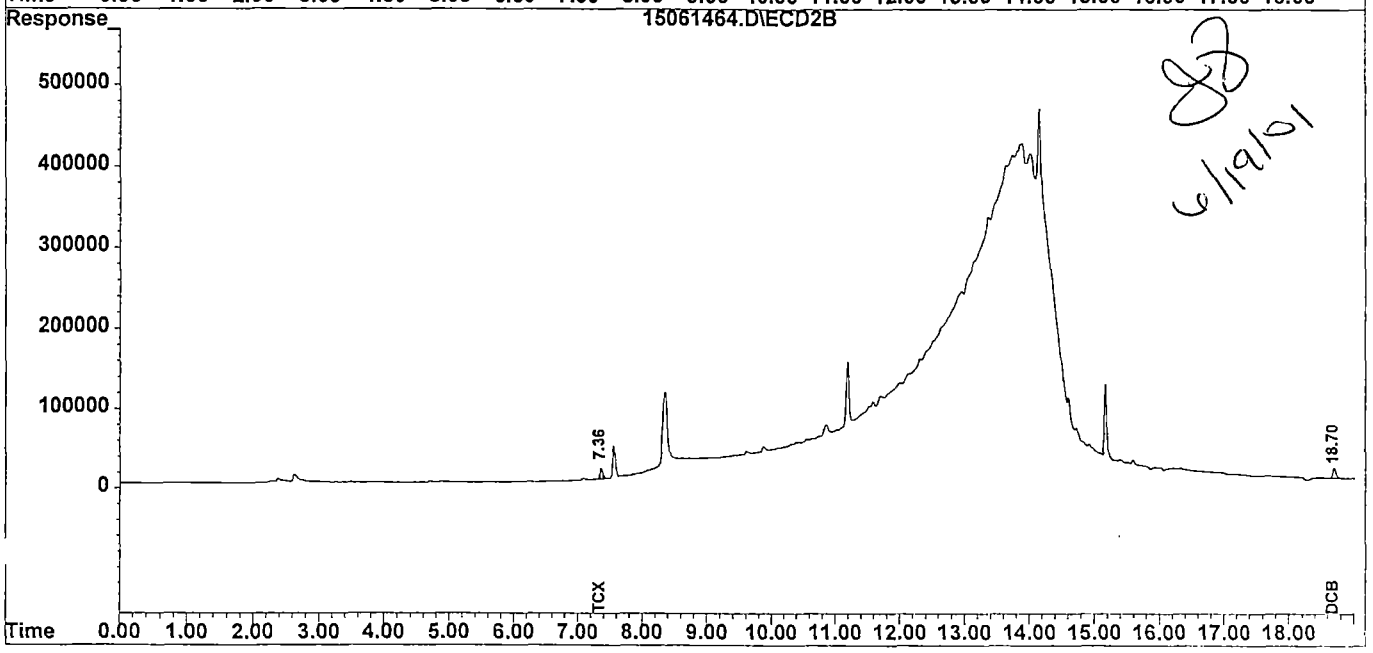
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061464.D\ECD1A.CH Vial: 64
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061464.D\ECD2B.CH
Acq On : 15 Jun 2001 18:18 Operator: DDC
Sample : 46702.30 *E00H5 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*70 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 16 8:07 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





6/19/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00H6

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Matrix: (soil/water) SOIL Lab Sample ID: 46702.31

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

% Moisture: 37 decanted: (Y/N) __ Date Received: 06/07/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/07/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/15/01

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	52	U ~~UJ~~
11104-28-2	Aroclor-1221	52	U ~~UJ~~
11141-16-5	Aroclor-1232	52	U ~~UJ~~
53469-21-9	Aroclor-1242	290	P ~~PJ~~
12672-29-6	Aroclor-1248	52	U ~~UJ~~
11097-69-1	Aroclor-1254	170	J
11096-82-5	Aroclor-1260	52	U ~~UJ~~
Surrogate amount spiked		10.54	

TBS 7/7/01
TBS 7/13/01

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061465.D\ECD1A.CH Vial: 65
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061465.D\ECD2B.CH
Acq On : 15 Jun 2001 18:42 Operator: DDC
Sample : 46702.31 *E00H6 * Inst : HP_15
Misc : *EPA*30.1G/5.0ML*37 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 16 8:09 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	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.60	7.36	344661	350872	7.247	7.985	
	Spiked Amount 10.547			Recovery	=	68.71%	75.71%	
22)	S DCB	18.29	18.70	436522	385625	8.883	8.582	
	Spiked Amount 10.547			Recovery	=	84.22%	81.37%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.43	10.40	158675	296788	143.8	555.4	#
8)	L4 Aroclor-1242 {2}	9.71	0.00	281742	0	379.5	N.D. d	#
9)	L4 Aroclor-1242 {3}	10.64	12.41	647872	331182	336.6	648.3	#
10)	L4 Aroclor-1242 {4}	0.00	12.64	0	220252	N.D. d	378.3	#
	Sum Aroclor-1242			1088290	848223	859.9	1581.9	
	Average Aroclor-1242					286.645	527.311	
12)	L6 Aroclor-1254	12.65	13.93f	432408	137092	196.5m	199.9m	
13)	L6 Aroclor-1254 {2}	0.00	14.93f	0	170688	N.D. d	189.4m	#
14)	L6 Aroclor-1254 {3}	0.00	13.93	0	307371	N.D. d	312.6	#
15)	L6 Aroclor-1254 {4}	14.32	14.93	253643	116340	144.6	82.9	#
16)	L6 Aroclor-1254 {5}	15.00	15.39	266211	249877	180.4	144.0	
	Sum Aroclor-1254			952261	981369	521.5	928.9	
	Average Aroclor-1254					173.818	185.780	

DDL 6-16-01 DDL 6-16-01

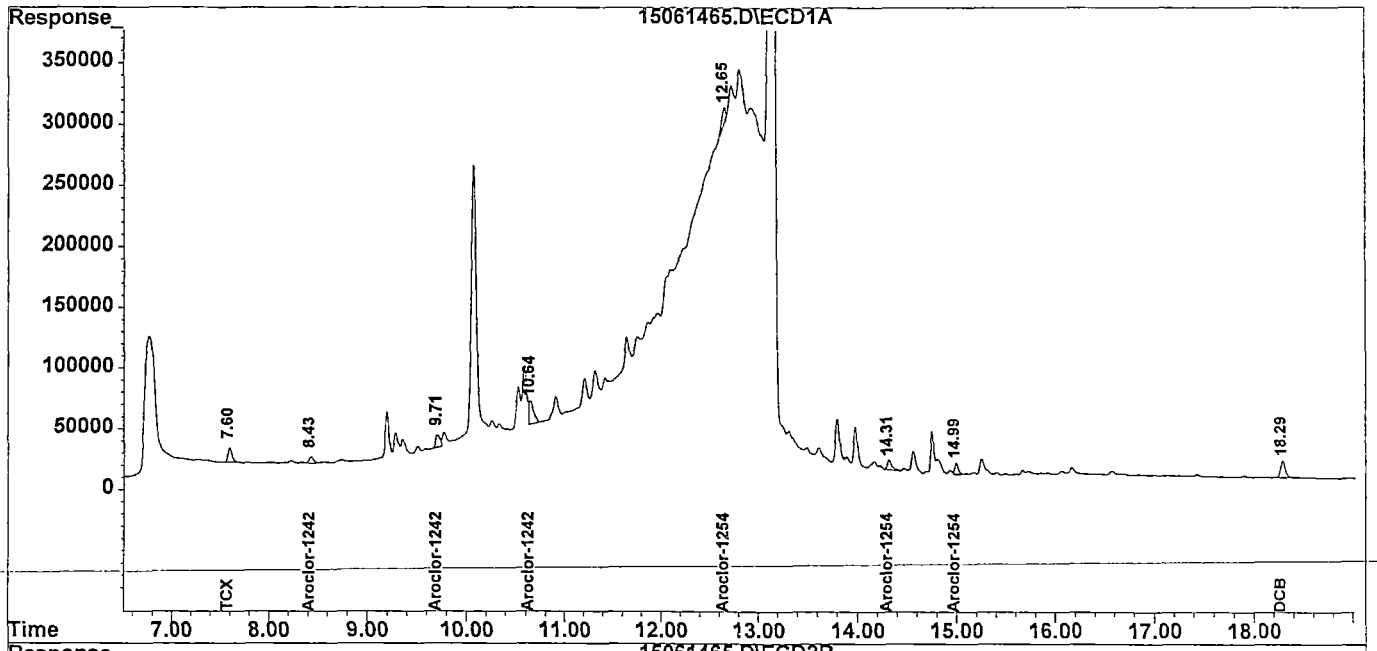
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

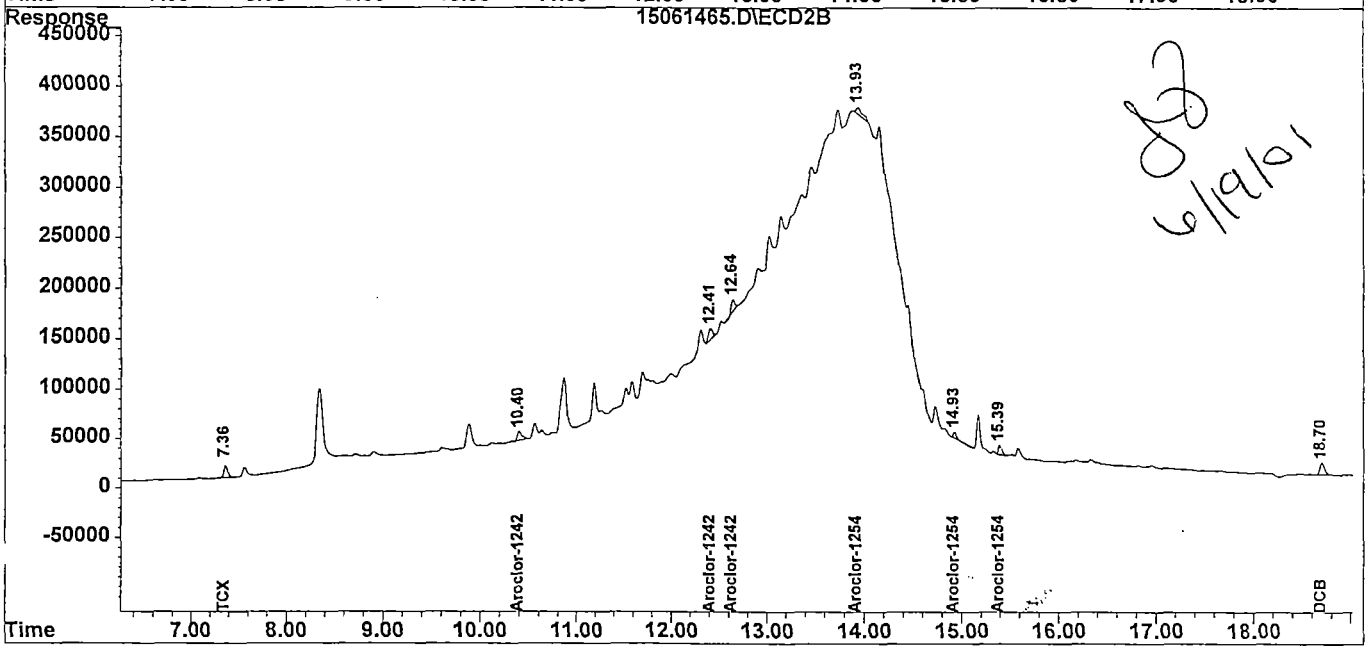
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061465.D\ECD1A.CH Vial: 65
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061465.D\ECD2B.CH
Acq On : 15 Jun 2001 18:42 Operator: DDC
Sample : 46702.31 *E00H6 * Inst : HP_15
Misc : *EPA*30.1G/5.0ML*37 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 16 8:09 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

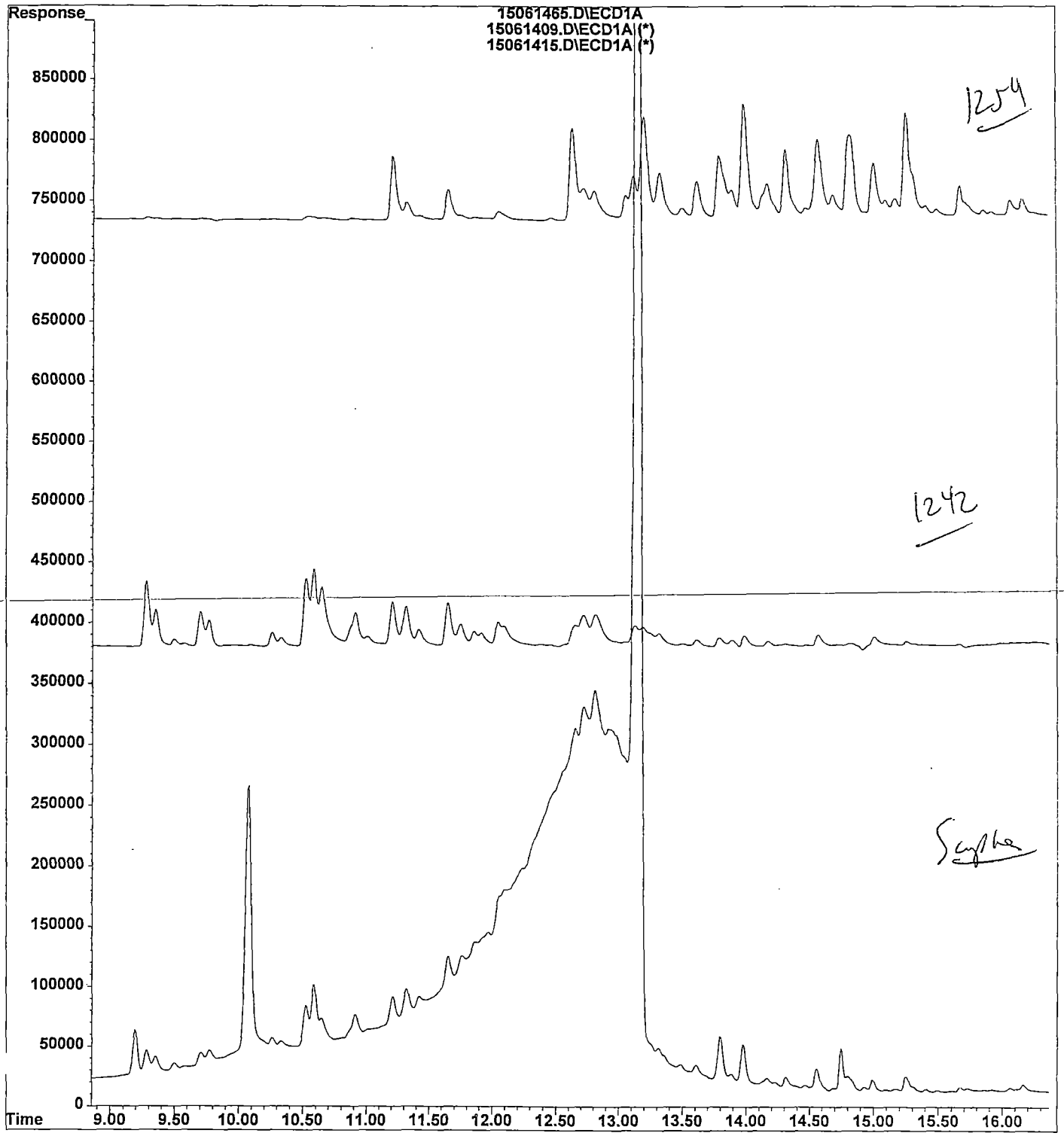
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





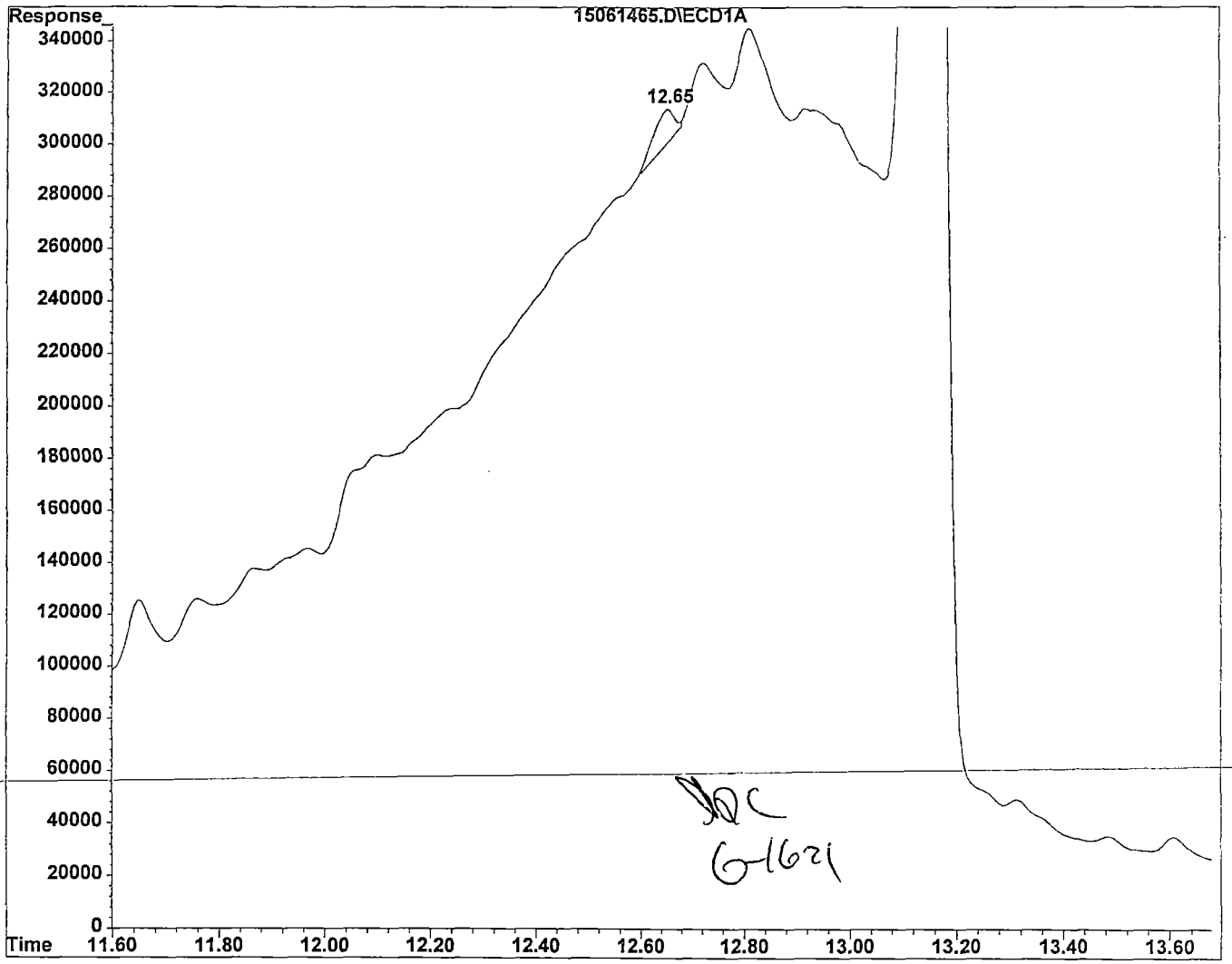
6/19/01

File : F:\HPCHEM\HP\15\DATA\06_14_01\15061465.D
Operator : DDC
Acquired : 15 Jun 2001 18:42 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46702.31 *E00H6 *
Misc Info : *EPA*30.1G/5.0ML*37
Vial Number: 65



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_14_01\15061465.D
Date Acquired: 15 Jun 2001 18:42
Inst: HP_15 Operator ID: DDC
Name: 46702.31 *E00H6 *
Misc: *EPA*30.1G/5.0ML*37
Method: F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 16 8:09 2001 Quant Results File: XPCBF14.RES



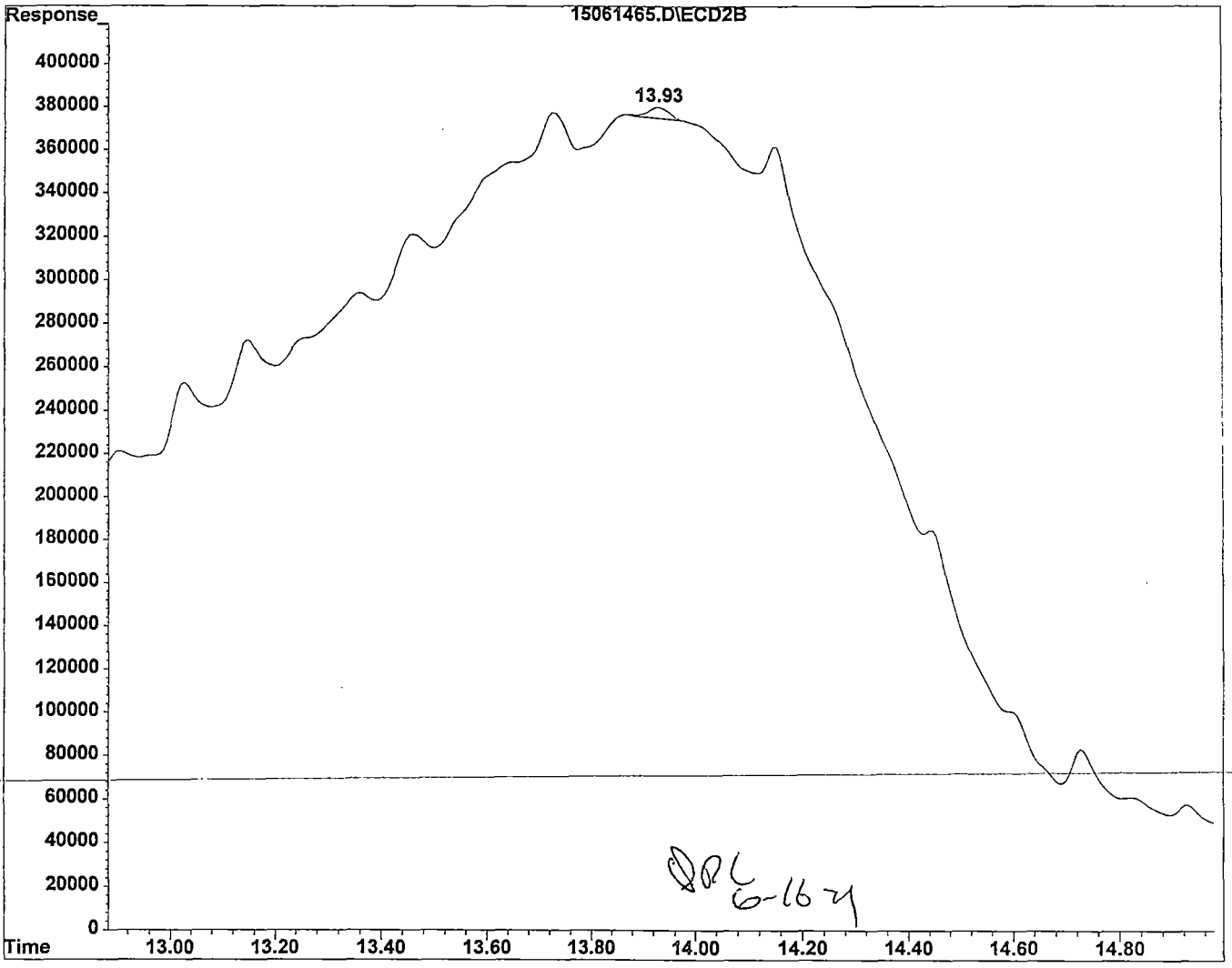
Aroclor-1254 12.65min area: 432408 m

Integration Time Range: 12.60 - 12.68

F:\HPCHEM\HP\15\DATA\06_14_01\15061465.D
Report generated: Sat Jun 16 11:26:53 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_14_01\15061465.D
Date Acquired: 15 Jun 2001 18:42
Inst: HP_15 Operator ID: DDC
Name: 46702.31 *E00H6 *
Misc: *EPA*30.1G/5.0ML*37
Method: F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 16 8:09 2001 Quant Results File: XPCBF14.RES



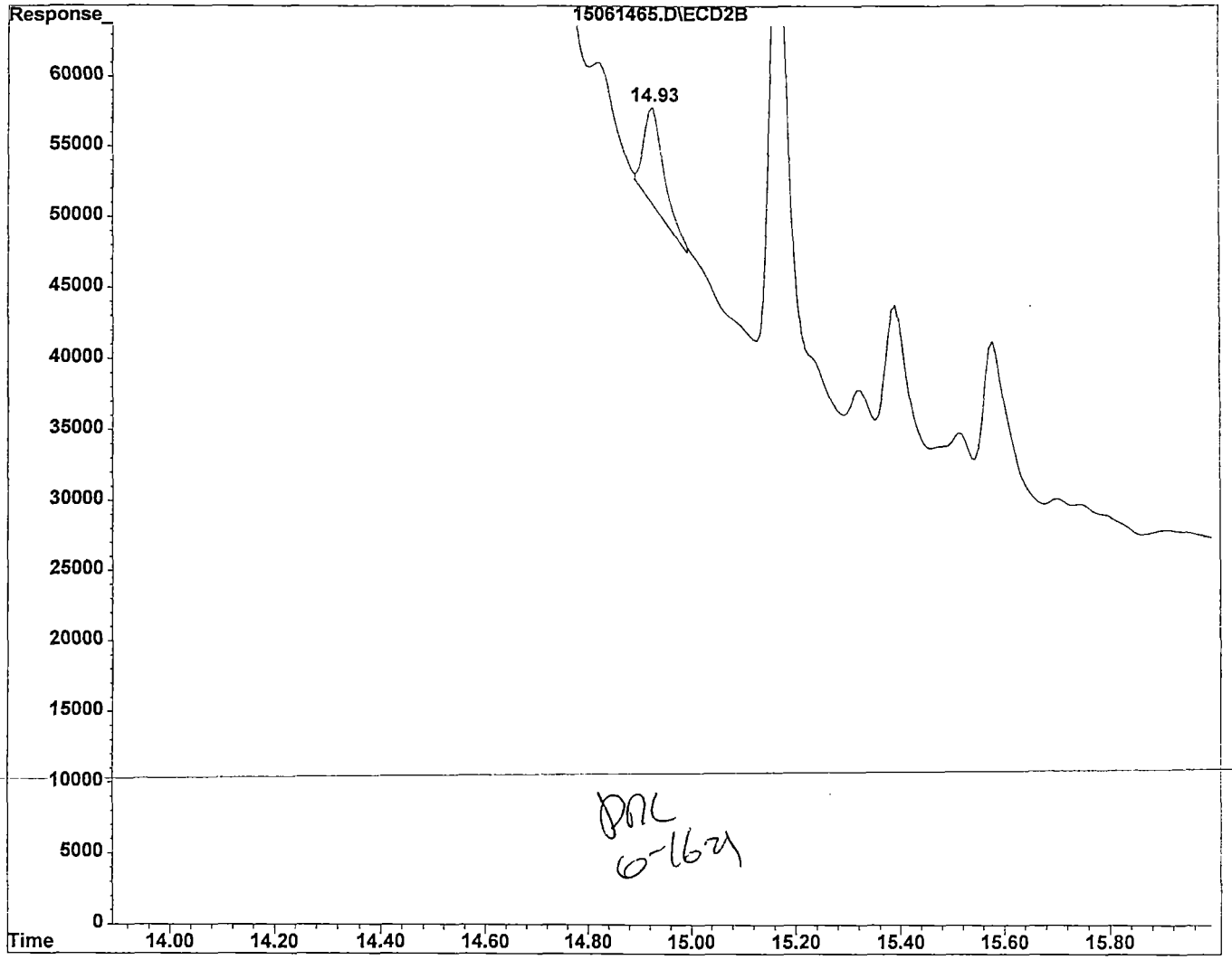
Aroclor-1254 #2 13.93min area: 137092 m

Integration Time Range: 13.88 - 13.98

F:\HPCHEM\HP\15\DATA\06_14_01\15061465.D
Report generated: Sat Jun 16 11:26:54 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_14_01\15061465.D
Date Acquired: 15 Jun 2001 18:42
Inst: HP_15 Operator ID: DDC
Name: 46702.31 *E00H6 *
Misc: *EPA*30.1G/5.0ML*37
Method: F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 16 8:09 2001 Quant Results File: XPCBF14.RES



Aroclor-1254 {2} #2 14.93min area: 170688 m

Integration Time Range: 14.89 - 14.99

F:\HPCHEM\HP\15\DATA\06_14_01\15061465.D
Report generated: Sat Jun 16 11:26:54 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00H7

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Matrix: (soil/water) SOIL Lab Sample ID: 46702.32

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

% Moisture: 28 decanted: (Y/N) __ Date Received: 06/07/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/07/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/15/01

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	46	U ~~UJ~~
11104-28-2	Aroclor-1221	46	U ~~UJ~~
11141-16-5	Aroclor-1232	46	U ~~UJ~~
53469-21-9	Aroclor-1242	260	P ~~PJ~~
12672-29-6	Aroclor-1248	46	U ~~UJ~~
11097-69-1	Aroclor-1254	46	U ~~UJ~~
11096-82-5	Aroclor-1260	46	U ~~UJ~~
Surrogate amount spiked		9.26	

TBS 7/7/01
TBS 7/13/01

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061466.D\ECD1A.CH Vial: 66
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061466.D\ECD2B.CH
Acq On : 15 Jun 2001 19:05 Operator: DDC
Sample : 46702.32 *E00H7 * Inst : HP_15
Misc : *EPA*30G/5.0ML*28 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 16 11:36 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	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.60	7.36	634023	666359	11.7	13.3
	Spiked Amount 9.259			Recovery	=	126.36%	143.64%
22)	S DCB	18.29	18.70	807094	736949	14.4	14.4
	Spiked Amount 9.259			Recovery	=	155.52%	155.52%
	Target Compounds:						
7)	L4 Aroclor-1242	0.00	10.41	0	152165	N.D. d	250.0 #
8)	L4 Aroclor-1242 {2}	9.71	11.19	169397	1025208	200.3	991.3mE#
9)	L4 Aroclor-1242 {3}	10.65	12.42	474496	88234	216.5	151.6 #
11)	L4 Aroclor-1242 {5}	12.82	0.00	614776	0	357.3m	N.D. d #
	Sum Aroclor-1242			1258669	1265606	774.1	1392.9
	Average Aroclor-1242					258.025	464.303

MC 6-16-01

DDC 6-16-01

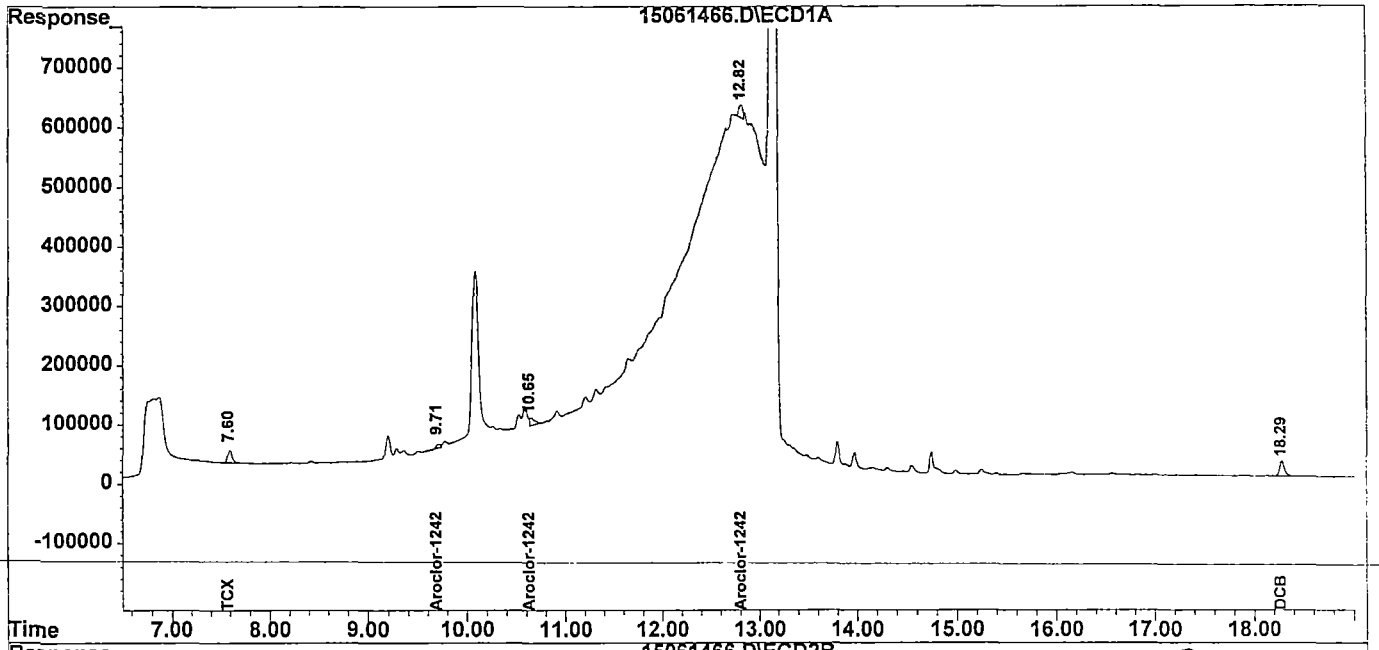
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

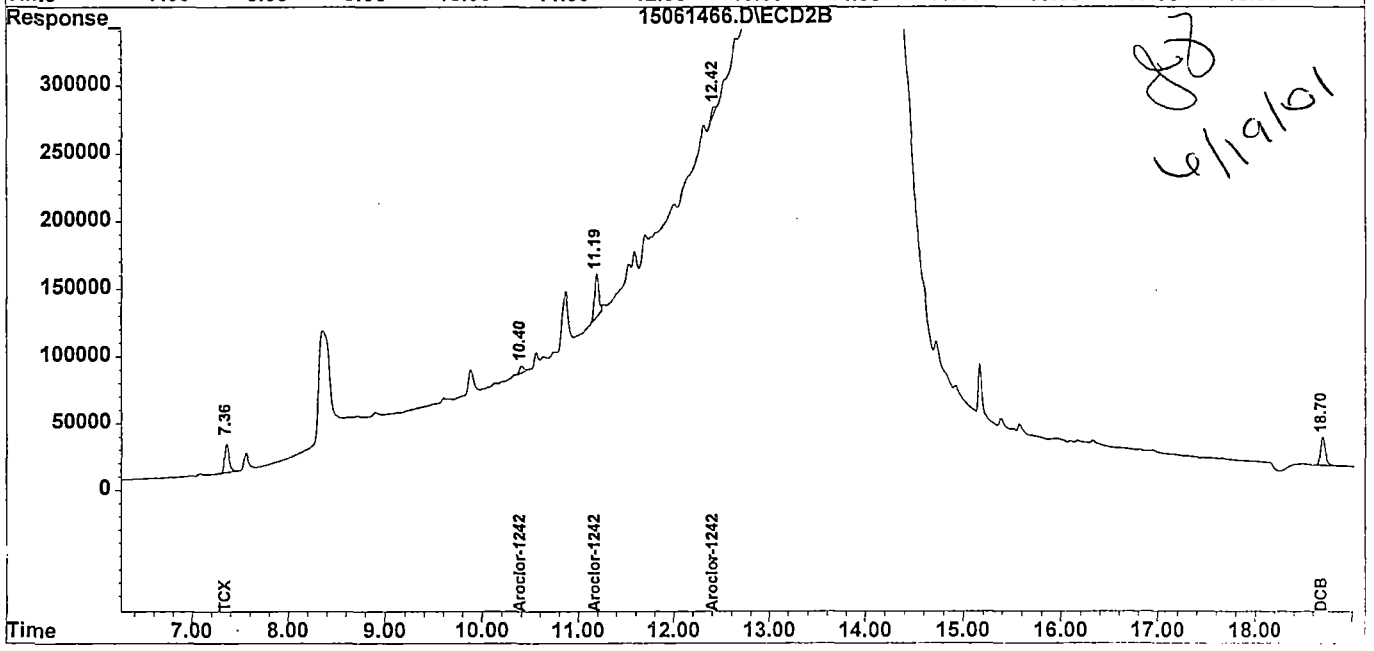
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061466.D\ECD1A.CH Vial: 66
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061466.D\ECD2B.CH
Acq On : 15 Jun 2001 19:05 Operator: DDC
Sample : 46702.32 *E00H7 * Inst : HP_15
Misc : *EPA*30G/5.0ML*28 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 16 11:36 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





6/19/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061466.D\ECD1A.CH Vial: 66
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061466.D\ECD2B.CH
Acq On : 15 Jun 2001 19:05 Operator: DDC
Sample : 46702.32 *E00H7 * Inst : HP_15
Misc : *EPA*30G/5.0ML*28 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 16 11:36 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	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.60	7.36	634023	666359	11.7	13.3
	Spiked Amount 9.259			Recovery	=	126.36%	143.64%
22)	S DCB	18.29	18.70	807094	736949	14.4	14.4
	Spiked Amount 9.259			Recovery	=	155.52%	155.52%
	Target Compounds:						
7)	L4 Aroclor-1242	0.00	10.41	0	152165	N.D. d	250.0 #
8)	L4 Aroclor-1242 {2}	9.71	11.19	169397	1025208	200.3	991.3mE# DDC 6-16-21
9)	L4 Aroclor-1242 {3}	10.65	12.42	474496	88234	216.5 DDC 6-16-21	151.6 #
11)	L4 Aroclor-1242 {5}	12.82	0.00	614776	0	357.3m	N.D. d #
	Sum Aroclor-1242			1258669	1265606	774.1	1392.9
	Average Aroclor-1242					258.025	464.303

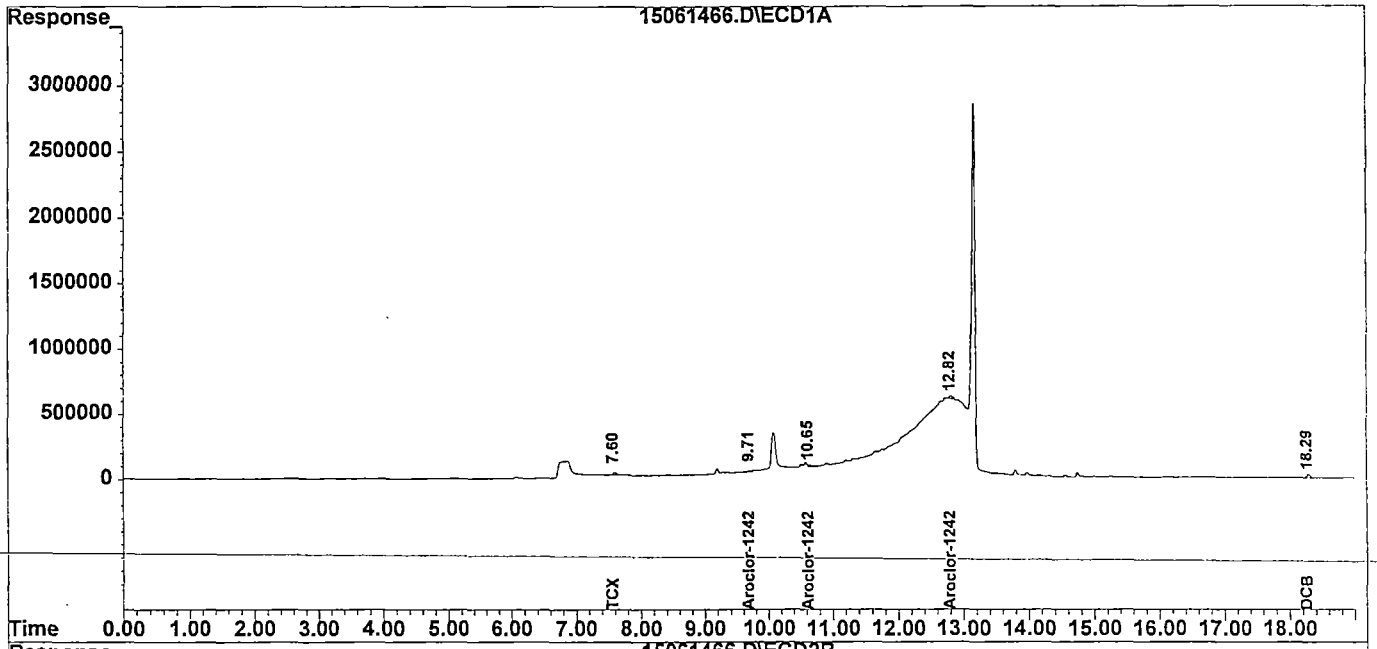
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

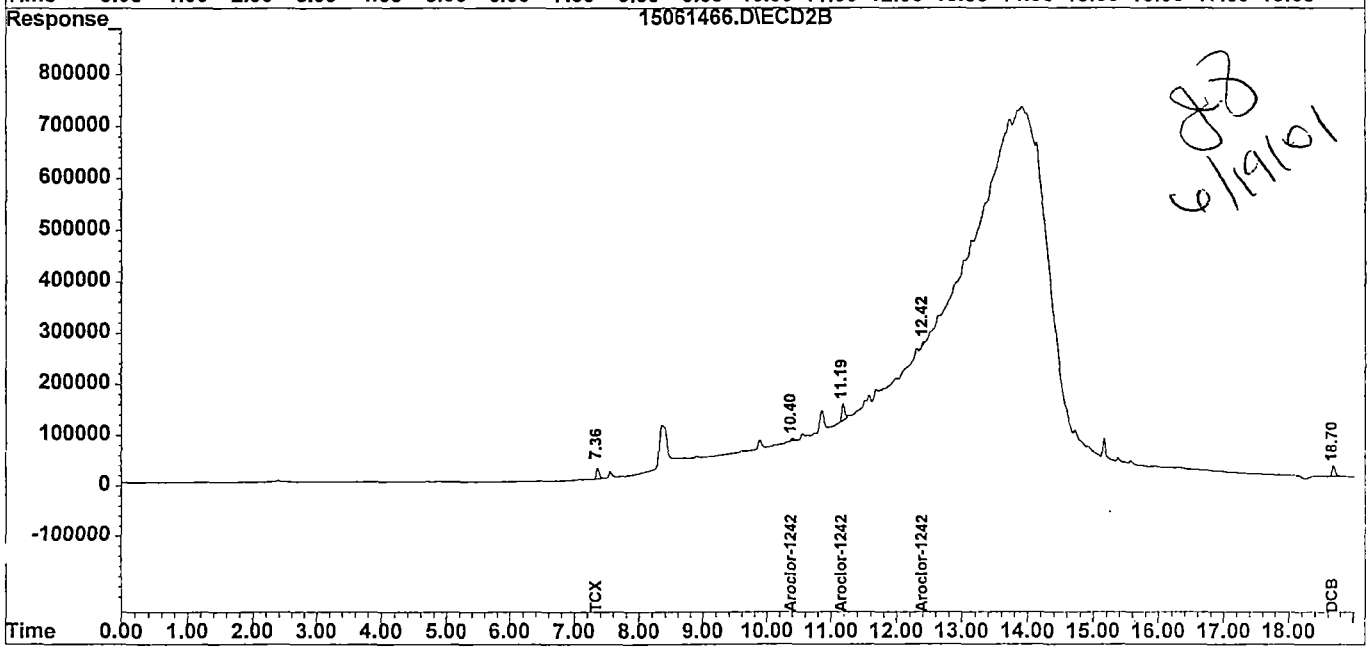
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061466.D\ECD1A.CH Vial: 66
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061466.D\ECD2B.CH
Acq On : 15 Jun 2001 19:05 Operator: DDC
Sample : 46702.32 *E00H7 * Inst : HP_15
Misc : *EPA*30G/5.0ML*28 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 16 11:36 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

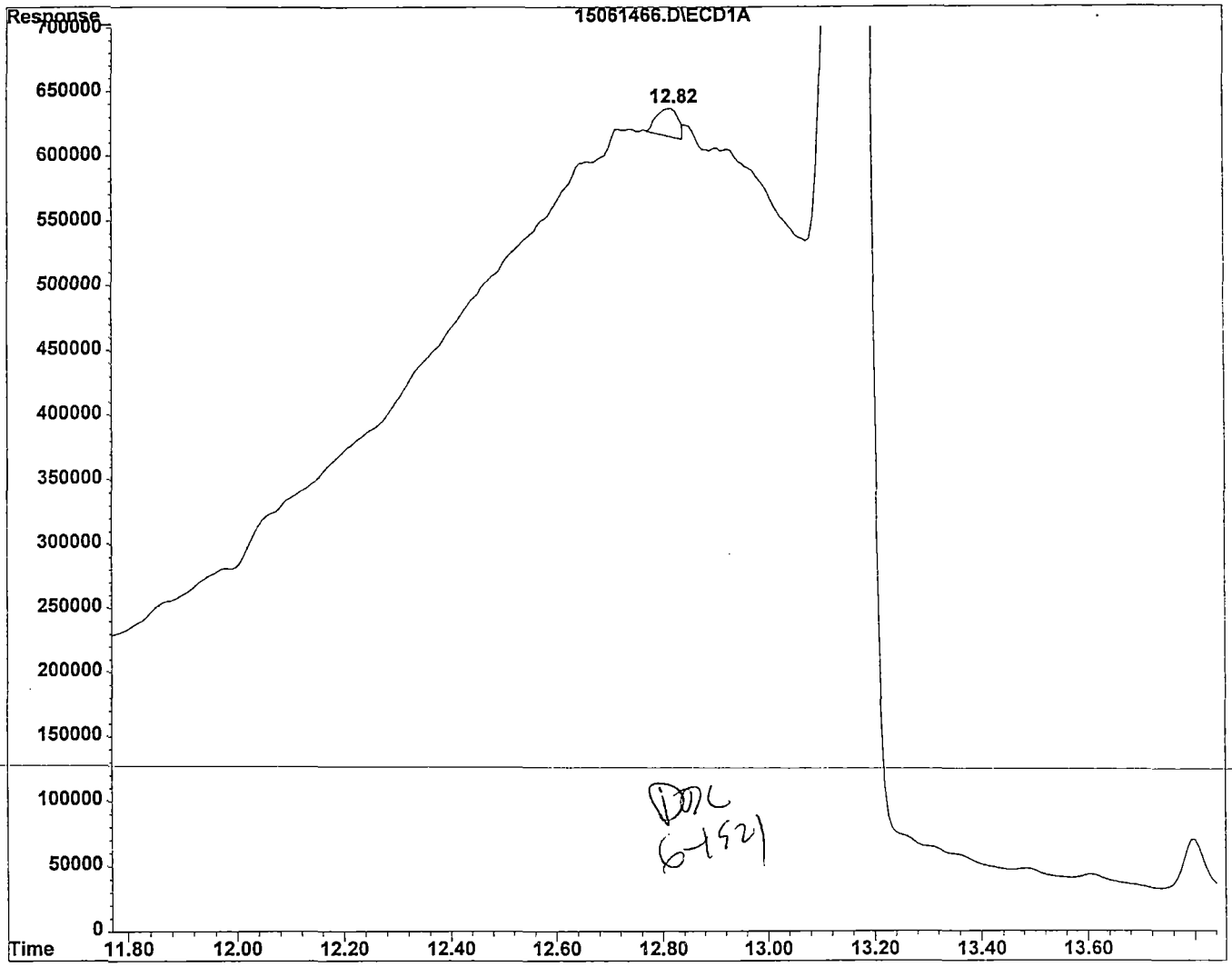




6/19/01

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_14_01\15061466.D
Date Acquired: 15 Jun 2001 19:05
Inst: HP_15 Operator ID: DDC
Name: 46702.32 *E00H7 *
Misc: *EPA*30G/5.0ML*28
Method: F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 16 11:36 2001 Quant Results File: XPCBF14.RES



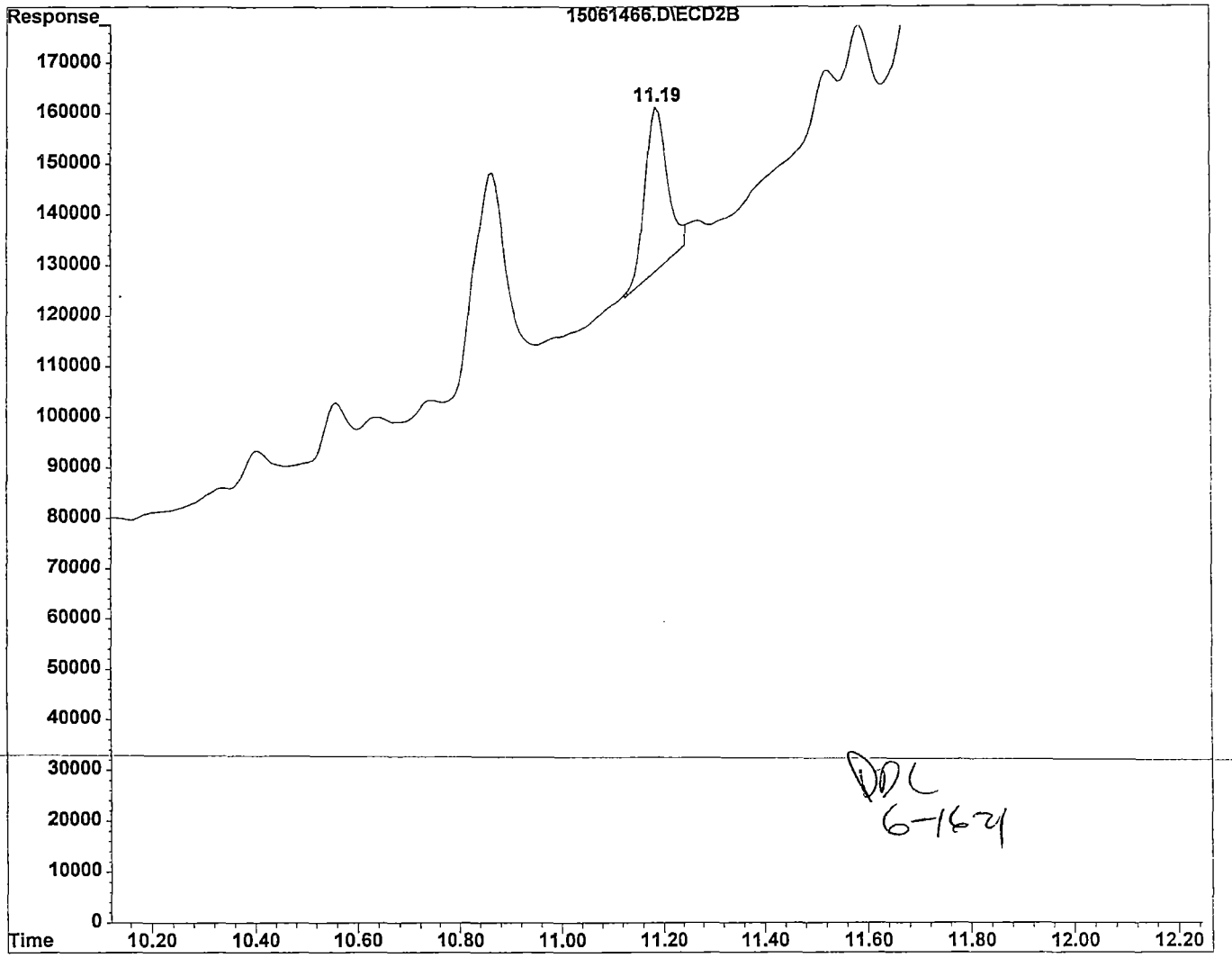
Aroclor-1242 {5} 12.82min area: 614776 m

Integration Time Range: 12.77 - 12.84

F:\HPCHEM\HP\15\DATA\06_14_01\15061466.D
Report generated: Sat Jun 16 11:36:55 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_14_01\15061466.D
Date Acquired: 15 Jun 2001 19:05
Inst: HP_15 Operator ID: DDC
Name: 46702.32 *E00H7 *
Misc: *EPA*30G/5.0ML*28
Method: F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 16 11:33 2001 Quant Results File: XPCBF14.RES

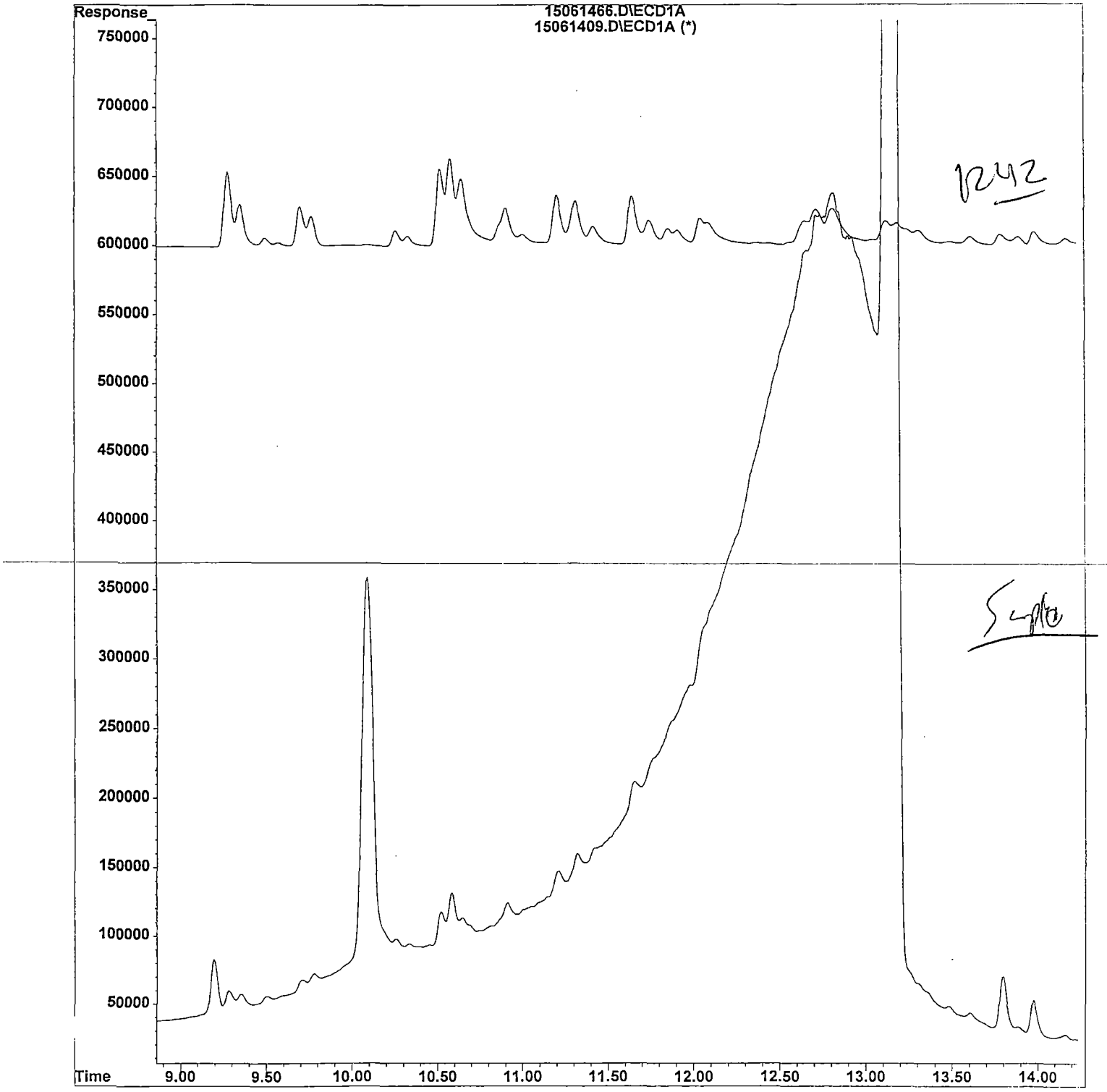


Aroclor-1242 {2} #2 11.19min area: 1025208 m

Integration Time Range: 11.12 - 11.25

F:\HPCHEM\HP\15\DATA\06_14_01\15061466.D
Report generated: Sat Jun 16 11:34:34 2001

File : F:\HPCHEM\HP\15\DATA\06_14_01\15061466.D
Operator : DDC
Acquired : 15 Jun 2001 19:05 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46702.32 *E00H7 *
Misc Info : *EPA*30G/5.0ML*28
Vial Number: 66



6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Instrument ID: HP_15A Date(s) Analyzed: 06/12/01 06/12/01

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	532940	MEAN
		2	9.70	327760	
		3	10.64	1113310	
		4	11.65	456130	
		5	12.80	829940	
Aroclor 1242 L2	0.20	1	8.42	504245	MEAN
		2	9.70	358705	
		3	10.65	1101590	
		4	11.65	482495	
		5	12.81	820905	
Aroclor 1242 L3	0.40	1	8.43	531365	MEAN
		2	9.70	334095	
		3	10.65	1035518	
		4	11.65	459290	
		5	12.82	704015	
Aroclor 1242 L4	0.80	1	8.43	509548	MEAN
		2	9.71	324156	
		3	10.65	1044860	
		4	11.66	466984	
		5	12.82	722706	
Aroclor 1242 L5	1.60	1	8.43	497128	MEAN
		2	9.71	310593	
		3	10.65	1018471	
		4	11.66	459828	
		5	12.82	728091	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	8.43	8.38	8.48	515045	3.2
	2	9.70	9.65	9.75	331062	5.3
	3	10.65	10.60	10.70	1062750	4.0
	4	11.65	11.60	11.70	464945	2.3
	5	12.81	12.76	12.86	761131	7.8

FORM VI PCB-3

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Instrument ID: HP_15B Date(s) Analyzed: 06/12/01 06/12/01

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	10.39	173470	MEAN
		2	11.18	277760	
		3	12.40	193000	
		4	12.63	145770	
		5	13.19	176490	
Aroclor 1242 L2	0.20	1	10.40	195240	MEAN
		2	11.18	283265	
		3	12.40	185620	
		4	12.64	154290	
		5	13.18	188095	
Aroclor 1242 L3	0.40	1	10.40	176550	MEAN
		2	11.18	258943	
		3	12.40	169973	
		4	12.64	151798	
		5	13.18	193728	
Aroclor 1242 L4	0.80	1	10.40	191491	MEAN
		2	11.18	296963	
		3	12.40	194610	
		4	12.64	174940	
		5	13.17	241766	
Aroclor 1242 L5	1.60	1	10.40	192859	MEAN
		2	11.18	322986	
		3	12.41	210522	
		4	12.64	205393	
		5	13.16	277249	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	10.40	10.35	10.45	185922	5.4
	2	11.18	11.13	11.23	287983	8.3
	3	12.40	12.35	12.45	190745	7.7
	4	12.64	12.59	12.69	166438	14.7
	5	13.18	13.13	13.23	215466	19.8

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Instrument ID: HP_15A Date(s) Analyzed: 06/12/01 06/12/01

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	12.67	1070440	MEAN
		2	13.36	683030	
		3	13.83	594430	
		4	14.34	899080	
		5	15.03	667890	
Aroclor 1254 L2	0.20	1	12.65	1099620	MEAN
		2	13.36	735530	
		3	13.83	793560	
		4	14.34	812310	
		5	15.02	467775	
Aroclor 1254 L3	0.40	1	12.66	1234053	MEAN
		2	13.36	741923	
		3	13.82	1009488	
		4	14.34	785338	
		5	15.02	452203	
Aroclor 1254 L4	0.80	1	12.66	1229863	MEAN
		2	13.35	767449	
		3	13.82	776051	
		4	14.34	783463	
		5	15.02	488633	
Aroclor 1254 L5	1.60	1	12.66	1165376	MEAN
		2	13.35	749014	
		3	13.82	744132	
		4	14.34	750194	
		5	15.02	500119	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	12.66	12.61	12.71	1159870	6.4
	2	13.36	13.31	13.41	735389	4.3
	3	13.82	13.77	13.87	783532	19.0
	4	14.34	14.29	14.39	806077	7.0
	5	15.02	14.97	15.07	515324	16.9

FORM VI PCB-3

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Instrument ID: HP_15B Date(s) Analyzed: 06/12/01 06/12/01

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	12.32	204000	MEAN
		2	13.08	204410	
		3	13.96	283490	
		4	14.95	497840	
		5	15.41	455850	
Aroclor 1254 L2	0.20	1	12.32	234745	MEAN
		2	13.08	244370	
		3	13.96	310905	
		4	14.95	542500	
		5	15.41	442455	
Aroclor 1254 L3	0.40	1	12.32	243298	MEAN
		2	13.07	262943	
		3	13.96	340688	
		4	14.95	553748	
		5	15.41	445095	
Aroclor 1254 L4	0.80	1	12.32	278423	MEAN
		2	13.06	344925	
		3	13.96	386225	
		4	14.94	626910	
		5	15.41	489153	
Aroclor 1254 L5	1.60	1	12.32	284878	MEAN
		2	13.06	309339	
		3	13.95	387515	
		4	14.94	664245	
		5	15.41	522939	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	12.32	12.27	12.37	249069	13.3
	2	13.07	13.02	13.12	273197	20.1
	3	13.96	13.91	14.01	341765	13.4
	4	14.95	14.90	15.00	577049	11.7
	5	15.41	15.36	15.46	471098	7.3

FORM VI PCB-3

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Instrument ID: HP_15A Date(s) Analyzed: 06/12/01 06/12/01

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	8.43	579320	MEAN
		2	9.29	749630	
		3	10.59	705340	
		4	11.22	566990	
		5	11.66	503900	
Aroclor 1016 L2	0.20	1	8.43	601840	MEAN
		2	9.29	700325	
		3	10.59	680300	
		4	11.22	561700	
		5	11.66	512730	
Aroclor 1016 L3	0.40	1	8.43	659650	MEAN
		2	9.29	747548	
		3	10.59	817335	
		4	11.22	658718	
		5	11.66	637965	
Aroclor 1016 L4	0.80	1	8.43	505930	MEAN
		2	9.28	557574	
		3	10.59	648644	
		4	11.22	499098	
		5	11.66	482718	
Aroclor 1016 L5	1.60	1	8.43	455359	MEAN
		2	9.28	483726	
		3	10.58	622361	
		4	11.22	439893	
		5	11.66	439405	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	8.43	8.38	8.48	560420	14.4
	2	9.29	9.24	9.34	647761	18.6
	3	10.59	10.54	10.64	694796	10.8
	4	11.22	11.17	11.27	545280	15.0
	5	11.66	11.61	11.71	515344	14.4

FORM VI PCB-3

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Instrument ID: HP_15A Date(s) Analyzed: 06/12/01 06/12/01

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	14.35	1559950	MEAN
		2	14.84	1467790	
		3	15.28	1308170	
		4	15.74	979990	
		5	16.18	1579950	
Aroclor 1260 L2	0.20	1	14.35	1594315	MEAN
		2	14.84	1537310	
		3	15.28	1358920	
		4	15.74	1099015	
		5	16.18	1441375	
Aroclor 1260 L3	0.40	1	14.34	1917863	MEAN
		2	14.83	1912360	
		3	15.28	1760880	
		4	15.74	1230068	
		5	16.18	1939115	
Aroclor 1260 L4	0.80	1	14.34	1464086	MEAN
		2	14.83	1502539	
		3	15.28	1409606	
		4	15.74	1110379	
		5	16.18	1540686	
Aroclor 1260 L5	1.60	1	14.34	1336359	MEAN
		2	14.83	1456321	
		3	15.28	1404615	
		4	15.74	944215	
		5	16.18	1601214	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	14.34	14.29	14.39	1574515	13.7
	2	14.83	14.78	14.88	1575264	12.1
	3	15.28	15.23	15.33	1448438	12.4
	4	15.74	15.69	15.79	1072733	10.6
	5	16.18	16.13	16.23	1620468	11.6

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Instrument ID: HP_15B Date(s) Analyzed: 06/12/01 06/12/01

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	8.90	381810	MEAN
		2	9.88	1091870	
		3	10.86	1292380	
		4	11.19	319670	
		5	12.32	379520	
Aroclor 1016 L2	0.20	1	8.90	368535	MEAN
		2	9.88	1070535	
		3	10.86	1317565	
		4	11.19	322175	
		5	12.32	394940	
Aroclor 1016 L3	0.40	1	8.90	443018	MEAN
		2	9.88	1198468	
		3	10.86	1665665	
		4	11.19	411833	
		5	12.32	493805	
Aroclor 1016 L4	0.80	1	8.90	414524	MEAN
		2	9.88	925198	
		3	10.86	1362729	
		4	11.19	341594	
		5	12.32	398766	
Aroclor 1016 L5	1.60	1	8.90	487859	MEAN
		2	9.88	859230	
		3	10.86	1389553	
		4	11.18	355935	
		5	12.32	394781	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	8.90	8.85	8.95	419149	11.5
	2	9.88	9.83	9.93	1029060	13.2
	3	10.86	10.81	10.91	1405578	10.7
	4	11.19	11.14	11.24	350241	10.7
	5	12.32	12.27	12.37	412362	11.2

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Instrument ID: HP_15B Date(s) Analyzed: 06/12/01 06/12/01

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	14.46	502130	MEAN
		2	14.75	1219290	
		3	14.95	1032900	
		4	16.11	631800	
		5	16.34	1177030	
Aroclor 1260 L2	0.20	1	14.46	535565	MEAN
		2	14.75	1270100	
		3	14.95	1096060	
		4	16.11	629490	
		5	16.34	1186270	
Aroclor 1260 L3	0.40	1	14.46	687818	MEAN
		2	14.74	1581288	
		3	14.94	1462740	
		4	16.10	821030	
		5	16.34	1630008	
Aroclor 1260 L4	0.80	1	14.46	567981	MEAN
		2	14.74	1261041	
		3	14.94	1207753	
		4	16.10	676456	
		5	16.33	1369810	
Aroclor 1260 L5	1.60	1	14.46	577493	MEAN
		2	14.74	1227568	
		3	14.94	1230158	
		4	16.10	693310	
		5	16.33	1475100	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	14.46	14.41	14.51	574197	12.2
	2	14.74	14.69	14.79	1311857	11.6
	3	14.94	14.89	14.99	1205922	13.7
	4	16.10	16.05	16.15	690417	11.3
	5	16.34	16.29	16.39	1367644	14.1

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Instrument ID: HP_15A Date(s) Analyzed: 06/12/01 06/12/01

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	8.04	341840	SINGLE
		2	8.21	216638	POINT
		3	8.42	777180	
		4			
		5			
Aroclor 1232	0.40	1	8.42	656795	SINGLE
		2	9.28	351270	POINT
		3	9.70	221368	
		4	10.52	288853	
		5			
Aroclor 1248	0.40	1	9.29	334155	SINGLE
		2	10.53	337383	POINT
		3	11.42	570555	
		4	11.76	457710	
		5	13.22	875818	

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Instrument ID: HP_15B Date(s) Analyzed: 06/12/01 06/12/01

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	243455	SINGLE
		2	8.71	178268	POINT
		3	8.89	523670	
		4			
		5			
Aroclor 1232	0.40	1	8.89	444368	SINGLE
		2	10.55	263245	POINT
		3	11.17	171300	
		4	12.39	100933	
		5			
Aroclor 1248	0.40	1	9.88	403018	SINGLE
		2	11.59	552933	POINT
		3	12.53	212605	
		4	13.26	438110	
		5	13.62	114113	

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

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

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

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

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

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

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

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

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

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	

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

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	

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

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.: E00E6

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.: E00E6

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

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

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.: E00E6

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 06/12/01 06/12/01

Client Sample No.(PIBLK): PIBLK5J Date Analyzed : 06/13/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1731

Client Sample No.: AR1660L35R Date Analyzed : 06/13/01

Lab Sample ID : 5-29-7 Time Analyzed : 1754

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.44	8.38	8.48	621223	560420	10.8
Aroclor 1016 #2	9.29	9.24	9.34	641878	647761	0.9
Aroclor 1016 #3	10.60	10.54	10.64	680998	694796	2.0
Aroclor 1016 #4	11.23	11.17	11.27	583980	545280	7.1
Aroclor 1016 #5	11.67	11.61	11.71	538330	515344	4.5
Aroclor 1260 #1	14.35	14.29	14.39	1654350	1574510	5.1
Aroclor 1260 #2	14.84	14.78	14.88	1635228	1575260	3.8
Aroclor 1260 #3	15.29	15.23	15.33	1403728	1448440	3.1
Aroclor 1260 #4	15.74	15.69	15.79	1110560	1072730	3.5
Aroclor 1260 #5	16.19	16.13	16.23	1272623	1620470	21.5*

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.: E00E6

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 06/12/01 06/12/01

Client Sample No.(PIBLK): PIBLK5J Date Analyzed : 06/13/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1731

Client Sample No.: AR1660L35R Date Analyzed : 06/13/01

Lab Sample ID : 5-29-7 Time Analyzed : 1754

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.91	8.85	8.95	444570	419149	6.1
Aroclor 1016 #2	9.89	9.83	9.93	1250418	1029060	21.5*
Aroclor 1016 #3	10.87	10.81	10.91	1638878	1405580	16.6*
Aroclor 1016 #4	11.19	11.14	11.24	352533	350241	0.7
Aroclor 1016 #5	12.33	12.27	12.37	493080	412362	19.6*
Aroclor 1260 #1	14.47	14.41	14.51	723695	574197	26.0*
Aroclor 1260 #2	14.75	14.69	14.79	1561783	1311860	19.0*
Aroclor 1260 #3	14.95	14.89	14.99	1288445	1205920	6.8
Aroclor 1260 #4	16.11	16.05	16.15	782855	690417	13.4
Aroclor 1260 #5	16.34	16.29	16.39	1304775	1367640	4.6

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.: E00E6

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 06/12/01 06/12/01

Client Sample No.(PIBLK): PIBLK5K Date Analyzed : 06/13/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 2124

Client Sample No.: AR1660L35T Date Analyzed : 06/13/01

Lab Sample ID : 5-29-7 Time Analyzed : 2148

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.43	8.38	8.48	646670	560420	15.4*
Aroclor 1016 #2	9.29	9.24	9.34	637490	647761	1.6
Aroclor 1016 #3	10.59	10.54	10.64	648293	694796	6.7
Aroclor 1016 #4	11.22	11.17	11.27	570868	545280	4.7
Aroclor 1016 #5	11.67	11.61	11.71	601415	515344	16.7*
Aroclor 1260 #1	14.35	14.29	14.39	1708988	1574510	8.5
Aroclor 1260 #2	14.84	14.78	14.88	1620525	1575260	2.9
Aroclor 1260 #3	15.28	15.23	15.33	1385200	1448440	4.4
Aroclor 1260 #4	15.74	15.69	15.79	1149005	1072730	7.1
Aroclor 1260 #5	16.18	16.13	16.23	1266855	1620470	21.8*

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.: E00E6

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 06/12/01 06/12/01

Client Sample No.(PIBLK): PIBLK5K Date Analyzed : 06/13/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 2124

Client Sample No.: AR1660L35T Date Analyzed : 06/13/01

Lab Sample ID : 5-29-7 Time Analyzed : 2148

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.90	8.85	8.95	443328	419149	5.8
Aroclor 1016 #2	9.88	9.83	9.93	1259228	1029060	22.4*
Aroclor 1016 #3	10.86	10.81	10.91	1621435	1405580	15.4*
Aroclor 1016 #4	11.19	11.14	11.24	340338	350241	2.8
Aroclor 1016 #5	12.33	12.27	12.37	508150	412362	23.2*
Aroclor 1260 #1	14.46	14.41	14.51	715960	574197	24.7*
Aroclor 1260 #2	14.75	14.69	14.79	1574888	1311860	20.0*
Aroclor 1260 #3	14.94	14.89	14.99	1275965	1205920	5.8
Aroclor 1260 #4	16.10	16.05	16.15	793108	690417	14.9
Aroclor 1260 #5	16.34	16.29	16.39	1247758	1367640	8.8

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.: E00E6

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

Client Sample No.(PIBLK): PIBLK5L Date Analyzed : 06/15/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1033

Client Sample No.: AR1660L35W Date Analyzed : 06/15/01

Lab Sample ID : 5-29-7 Time Analyzed : 1056

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.42	8.37	8.47	712440	660270	7.9
Aroclor 1016 #2	9.28	9.22	9.32	886645	841722	5.3
Aroclor 1016 #3	10.58	10.53	10.63	1229533	1129600	8.9
Aroclor 1016 #4	11.20	11.15	11.25	722658	721144	0.2
Aroclor 1016 #5	11.64	11.59	11.69	742120	697156	6.5
Aroclor 1260 #1	14.32	14.26	14.36	1696460	1626600	4.3
Aroclor 1260 #2	14.81	14.76	14.86	2314280	2187220	5.8
Aroclor 1260 #3	15.26	15.21	15.31	2171103	2086120	4.1
Aroclor 1260 #4	15.72	15.67	15.77	1207318	1191240	1.4
Aroclor 1260 #5	16.16	16.11	16.21	2455035	2370010	3.6

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.: E00E6

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

Client Sample No.(PIBLK): PIBLK5L Date Analyzed : 06/15/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1033

Client Sample No.: AR1660L35W Date Analyzed : 06/15/01

Lab Sample ID : 5-29-7 Time Analyzed : 1056

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.89	8.84	8.94	586873	528446	11.0
Aroclor 1016 #2	9.88	9.83	9.93	1360530	1241680	9.6
Aroclor 1016 #3	10.86	10.81	10.91	2204525	1998910	10.3
Aroclor 1016 #4	11.18	11.13	11.23	697078	632146	10.3
Aroclor 1016 #5	12.30	12.25	12.35	758410	696314	8.9
Aroclor 1260 #1	14.44	14.39	14.49	925905	860037	7.7
Aroclor 1260 #2	14.73	14.68	14.78	1542920	1436240	7.4
Aroclor 1260 #3	14.93	14.88	14.98	1813313	1699500	6.7
Aroclor 1260 #4	16.10	16.05	16.15	995310	975397	2.0
Aroclor 1260 #5	16.33	16.28	16.38	2526308	2364590	6.8

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.: E00E6

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

Client Sample No.(PIBLK): PIBLK5M Date Analyzed : 06/15/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1559

Client Sample No.: AR1660L35Y Date Analyzed : 06/15/01

Lab Sample ID : 5-29-7 Time Analyzed : 1622

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.43	8.37	8.47	710643	660270	7.6
Aroclor 1016 #2	9.28	9.22	9.32	888403	841722	5.5
Aroclor 1016 #3	10.59	10.53	10.63	1225973	1129600	8.5
Aroclor 1016 #4	11.21	11.15	11.25	728015	721144	1.0
Aroclor 1016 #5	11.65	11.59	11.69	755833	697156	8.4
Aroclor 1260 #1	14.32	14.26	14.36	1804713	1626600	11.0
Aroclor 1260 #2	14.81	14.76	14.86	2485755	2187220	13.6
Aroclor 1260 #3	15.26	15.21	15.31	2377898	2086120	14.0
Aroclor 1260 #4	15.73	15.67	15.77	1334210	1191240	12.0
Aroclor 1260 #5	16.17	16.11	16.21	2705793	2370010	14.2

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.: E00E6

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

Client Sample No.(PIBLK): PIBLK5M Date Analyzed : 06/15/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1559

Client Sample No.: AR1660L35Y Date Analyzed : 06/15/01

Lab Sample ID : 5-29-7 Time Analyzed : 1622

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.90	8.84	8.94	591240	528446	11.9
Aroclor 1016 #2	9.88	9.83	9.93	1380260	1241680	11.2
Aroclor 1016 #3	10.87	10.81	10.91	2265285	1998910	13.3
Aroclor 1016 #4	11.19	11.13	11.23	722025	632146	14.2
Aroclor 1016 #5	12.31	12.25	12.35	788810	696314	13.3
Aroclor 1260 #1	14.45	14.39	14.49	989603	860037	15.1*
Aroclor 1260 #2	14.74	14.68	14.78	1643903	1436240	14.4
Aroclor 1260 #3	14.94	14.88	14.98	1945588	1699500	14.5
Aroclor 1260 #4	16.10	16.05	16.15	1077463	975397	10.5
Aroclor 1260 #5	16.33	16.28	16.38	2740078	2364590	15.9*

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.: E00E6

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

Client Sample No.(PIBLK): PIBLK5N Date Analyzed : 06/15/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 2038

Client Sample No.: AR1660L3A5 Date Analyzed : 06/15/01

Lab Sample ID : 5-29-7 Time Analyzed : 2101

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.42	8.37	8.47	686013	660270	3.9
Aroclor 1016 #2	9.28	9.22	9.32	863955	841722	2.6
Aroclor 1016 #3	10.58	10.53	10.63	1121595	1129600	0.7
Aroclor 1016 #4	11.21	11.15	11.25	681763	721144	5.5
Aroclor 1016 #5	11.65	11.59	11.69	696055	697156	0.2
Aroclor 1260 #1	14.32	14.26	14.36	1649190	1626600	1.4
Aroclor 1260 #2	14.81	14.76	14.86	2237098	2187220	2.3
Aroclor 1260 #3	15.26	15.21	15.31	2106065	2086120	1.0
Aroclor 1260 #4	15.72	15.67	15.77	1191778	1191240	0.0
Aroclor 1260 #5	16.17	16.11	16.21	2363788	2370010	0.3

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.: E00E6

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

Client Sample No.(PIBLK): PIBLK5N Date Analyzed : 06/15/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 2038

Client Sample No.: AR1660L3A5 Date Analyzed : 06/15/01

Lab Sample ID : 5-29-7 Time Analyzed : 2101

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.90	8.84	8.94	581345	528446	10.0
Aroclor 1016 #2	9.88	9.83	9.93	1357893	1241680	9.4
Aroclor 1016 #3	10.86	10.81	10.91	2133153	1998910	6.7
Aroclor 1016 #4	11.19	11.13	11.23	671185	632146	6.2
Aroclor 1016 #5	12.31	12.25	12.35	738753	696314	6.1
Aroclor 1260 #1	14.45	14.39	14.49	905953	860037	5.3
Aroclor 1260 #2	14.73	14.68	14.78	1514570	1436240	5.5
Aroclor 1260 #3	14.93	14.88	14.98	1781033	1699500	4.8
Aroclor 1260 #4	16.10	16.05	16.15	968303	975397	0.7
Aroclor 1260 #5	16.33	16.28	16.38	2393420	2364590	1.2

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.: E00E6

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

Client Sample No.(PIBLK): PIBLK5Q Date Analyzed : 06/16/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1033

Client Sample No.: AR1660L3G5 Date Analyzed : 06/16/01

Lab Sample ID : 5-29-7 Time Analyzed : 1056

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.42	8.37	8.47	722228	660270	9.4
Aroclor 1016 #2	9.28	9.22	9.32	892485	841722	6.0
Aroclor 1016 #3	10.58	10.53	10.63	1206773	1129600	6.8
Aroclor 1016 #4	11.20	11.15	11.25	729563	721144	1.2
Aroclor 1016 #5	11.65	11.59	11.69	751113	697156	7.7
Aroclor 1260 #1	14.32	14.26	14.36	1831505	1626600	12.6
Aroclor 1260 #2	14.81	14.76	14.86	2488883	2187220	13.8
Aroclor 1260 #3	15.26	15.21	15.31	2377983	2086120	14.0
Aroclor 1260 #4	15.72	15.67	15.77	1363270	1191240	14.4
Aroclor 1260 #5	16.16	16.11	16.21	2746243	2370010	15.9*

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.: E00E6

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

Client Sample No.(PIBLK): PIBLK5Q Date Analyzed : 06/16/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1033

Client Sample No.: AR1660L3G5 Date Analyzed : 06/16/01

Lab Sample ID : 5-29-7 Time Analyzed : 1056

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.89	8.84	8.94	621075	528446	17.5*
Aroclor 1016 #2	9.88	9.83	9.93	1426848	1241680	14.9
Aroclor 1016 #3	10.86	10.81	10.91	2245440	1998910	12.3
Aroclor 1016 #4	11.18	11.13	11.23	677675	632146	7.2
Aroclor 1016 #5	12.30	12.25	12.35	812388	696314	16.7*
Aroclor 1260 #1	14.44	14.39	14.49	986270	860037	14.7
Aroclor 1260 #2	14.73	14.68	14.78	1610070	1436240	12.1
Aroclor 1260 #3	14.93	14.88	14.98	1904668	1699500	12.1
Aroclor 1260 #4	16.10	16.05	16.15	1135875	975397	16.4*
Aroclor 1260 #5	16.33	16.28	16.38	2767565	2364590	17.0*

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.: E00E6

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

Client Sample No.(PIBLK): PIBLK5S Date Analyzed : 06/16/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 2211

Client Sample No.: AR1660L3K5 Date Analyzed : 06/16/01

Lab Sample ID : 5-29-7 Time Analyzed : 2234

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.42	8.37	8.47	724715	660270	9.8
Aroclor 1016 #2	9.27	9.22	9.32	922865	841722	9.6
Aroclor 1016 #3	10.58	10.53	10.63	1225618	1129600	8.5
Aroclor 1016 #4	11.20	11.15	11.25	732873	721144	1.6
Aroclor 1016 #5	11.64	11.59	11.69	753668	697156	8.1
Aroclor 1260 #1	14.32	14.26	14.36	1793693	1626600	10.3
Aroclor 1260 #2	14.81	14.76	14.86	2441940	2187220	11.6
Aroclor 1260 #3	15.26	15.21	15.31	2313308	2086120	10.9
Aroclor 1260 #4	15.72	15.67	15.77	1309423	1191240	9.9
Aroclor 1260 #5	16.16	16.11	16.21	2675030	2370010	12.9

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.: E00E6

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

Client Sample No.(PIBLK): PIBLK5S Date Analyzed : 06/16/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 2211

Client Sample No.: AR1660L3K5 Date Analyzed : 06/16/01

Lab Sample ID : 5-29-7 Time Analyzed : 2234

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.89	8.84	8.94	569493	528446	7.8
Aroclor 1016 #2	9.87	9.83	9.93	1272483	1241680	2.5
Aroclor 1016 #3	10.86	10.81	10.91	2056015	1998910	2.9
Aroclor 1016 #4	11.18	11.13	11.23	616978	632146	2.4
Aroclor 1016 #5	12.30	12.25	12.35	715275	696314	2.7
Aroclor 1260 #1	14.44	14.39	14.49	853403	860037	0.8
Aroclor 1260 #2	14.73	14.68	14.78	1381785	1436240	3.8
Aroclor 1260 #3	14.93	14.88	14.98	1628690	1699500	4.2
Aroclor 1260 #4	16.09	16.05	16.15	951973	975397	2.4
Aroclor 1260 #5	16.33	16.28	16.38	2321208	2364590	1.8

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.: E00E6

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	RESC5B	5-441-6	06/12/01	1422	7.59	18.29
02	AR1221L35B	5-420-6	06/12/01	1446	7.59	18.29
03	AR1232L35B	5-422-6	06/12/01	1509	7.59	18.29
04	AR1242L15B	5-11-7	06/12/01	1532	7.59	18.29
05	AR1242L25B	5-10-7	06/12/01	1555	7.59	18.30
06	AR1242L35B	5-9-7	06/12/01	1618	7.60	18.30
07	AR1242L45B	5-8-7	06/12/01	1642	7.60	18.30
08	AR1242L55B	5-7-7	06/12/01	1705	7.60	18.30
09	AR1248L35B	5-424-6	06/12/01	1728	7.60	18.30
10	AR1254L15B	5-6-7	06/12/01	1751	7.60	18.30
11	AR1254L25B	5-5-7	06/12/01	1815	7.60	18.30
12	AR1254L35B	5-4-7	06/12/01	1838	7.60	18.31
13	AR1254L45B	5-3-7	06/12/01	1901	7.60	18.31
14	AR1254L55B	5-2-7	06/12/01	1924	7.60	18.31
15	AR1660L15B	5-31-7	06/12/01	1948	7.60	18.30
16	AR1660L25B	5-30-7	06/12/01	2011	7.60	18.30
17	AR1660L35M	5-29-7	06/12/01	2034	7.60	18.30
18	AR1660L45B	5-28-7	06/12/01	2057	7.60	18.30
19	AR1660L55B	5-27-7	06/12/01	2121	7.60	18.30
20	PIBLK5G	5-414-6	06/12/01	2144	7.60	18.30
21	PIBLK5J	5-414-6	06/13/01	1731	7.61	18.31
22	AR1660L35R	5-29-7	06/13/01	1754	7.61	18.31
23	PBLKSF	BL0607SF	06/13/01	1928	7.61	18.30
24	ELCS1	LC0607SF	06/13/01	2014	7.60	18.30
25	ELCS2	LD0607SF	06/13/01	2038	7.60	18.30
26	PIBLK5K	5-414-6	06/13/01	2124	7.60	18.30
27	AR1660L35T	5-29-7	06/13/01	2148	7.60	18.30
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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.: E00E6

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	RESC5B	5-441-6	06/12/01	1422	7.35	18.68
02	AR1221L35B	5-420-6	06/12/01	1446	7.35	18.69
03	AR1232L35B	5-422-6	06/12/01	1509	7.35	18.69
04	AR1242L15B	5-11-7	06/12/01	1532	7.35	18.69
05	AR1242L25B	5-10-7	06/12/01	1555	7.35	18.69
06	AR1242L35B	5-9-7	06/12/01	1618	7.36	18.69
07	AR1242L45B	5-8-7	06/12/01	1642	7.36	18.70
08	AR1242L55B	5-7-7	06/12/01	1705	7.36	18.70
09	AR1248L35B	5-424-6	06/12/01	1728	7.36	18.70
10	AR1254L15B	5-6-7	06/12/01	1751	7.36	18.70
11	AR1254L25B	5-5-7	06/12/01	1815	7.36	18.70
12	AR1254L35B	5-4-7	06/12/01	1838	7.36	18.70
13	AR1254L45B	5-3-7	06/12/01	1901	7.36	18.70
14	AR1254L55B	5-2-7	06/12/01	1924	7.37	18.70
15	AR1660L15B	5-31-7	06/12/01	1948	7.36	18.70
16	AR1660L25B	5-30-7	06/12/01	2011	7.36	18.70
17	AR1660L35M	5-29-7	06/12/01	2034	7.36	18.70
18	AR1660L45B	5-28-7	06/12/01	2057	7.36	18.70
19	AR1660L55B	5-27-7	06/12/01	2121	7.36	18.70
20	PIBLK5G	5-414-6	06/12/01	2144	7.36	18.70
21	PIBLK5J	5-414-6	06/13/01	1731	7.37	18.70
22	AR1660L35R	5-29-7	06/13/01	1754	7.37	18.70
23	PBLKSF	BL0607SF	06/13/01	1928	7.37	18.70
24	ELCS1	LC0607SF	06/13/01	2014	7.36	18.70
25	ELCS2	LD0607SF	06/13/01	2038	7.36	18.70
26	PIBLK5K	5-414-6	06/13/01	2124	7.36	18.70
27	AR1660L35T	5-29-7	06/13/01	2148	7.36	18.70
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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.: E00E6

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	PIBLK52	5-414-6	06/15/01	0313	7.59	18.29
21	E00E6	46702.11	06/15/01	0618	7.59	18.29
22	E00E6MS	46702.12MS	06/15/01	0641	7.59	18.28
23	E00E6MSD	46702.13MSD	06/15/01	0705	7.59	18.28
24	E00F6	46702.14	06/15/01	0728	7.59	18.28
25	E00F7	46702.15	06/15/01	0751	7.59	18.28
26	E00F8	46702.16	06/15/01	0814	7.59	18.28
27	E00G0	46702.17	06/15/01	0837	7.59	18.28
28	E00G1	46702.18	06/15/01	0901	7.59	18.28
29	PIBLK5L	5-414-6	06/15/01	1033	7.59	18.29
30	AR1660L35W	5-29-7	06/15/01	1056	7.59	18.28
31	E00G2	46702.19	06/15/01	1143	7.59	18.29
32	E00G3	46702.20	06/15/01	1206	7.59	18.29
33	E00G4	46702.21	06/15/01	1229	7.59	18.29
34	E00G5	46702.22	06/15/01	1253	7.59	18.29
35	E00G6	46702.23	06/15/01	1316	7.60	18.29

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.: E00E6

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	E00G7	46702.24	06/15/01	1339	7.60	18.29
02	E00G8	46702.25	06/15/01	1402	7.60	18.29
03	E00G9	46702.26	06/15/01	1426	7.60	18.29
04	PIBLK5M	5-414-6	06/15/01	1559	7.60	18.29
05	AR1660L35Y	5-29-7	06/15/01	1622	7.60	18.30
06	E00H0	46702.27	06/15/01	1709	7.60	18.29
07	E00H1	46702.28	06/15/01	1732	7.60	18.29
08	E00H3	46702.29	06/15/01	1755	7.60	18.29
09	E00H5	46702.30	06/15/01	1818	7.60	18.29
10	E00H6	46702.31	06/15/01	1842	7.60	18.29
11	E00H7	46702.32	06/15/01	1905	7.60	18.29
12	PIBLK5N	5-414-6	06/15/01	2038	7.60	18.29
13	AR1660L3A5	5-29-7	06/15/01	2101	7.60	18.29
14	PIBLK5Q	5-414-6	06/16/01	1033	7.59	18.29
15	AR1660L3G5	5-29-7	06/16/01	1056	7.59	18.29
16	E00F8DL	46702.16DL	06/16/01	1708	7.60	18.29
17	E00G0DL	46702.17DL	06/16/01	1755	7.60	18.29
18	E00G1DL	46702.18DL	06/16/01	1842	7.60	18.28
19	E00G3DL	46702.20DL	06/16/01	1905	7.60	18.29
20	E00G4DL	46702.21DL	06/16/01	1928	7.60	18.29
21	E00G6DL	46702.23DL	06/16/01	2014	7.59	18.29
22	PIBLK5S	5-414-6	06/16/01	2211	7.59	18.29
23	AR1660L3K5	5-29-7	06/16/01	2234	7.59	18.28
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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.: E00E6

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	PIBLK52	5-414-6	06/15/01	0313	7.35	18.70
21	E00E6	46702.11	06/15/01	0618	7.35	18.69
22	E00E6MS	46702.12MS	06/15/01	0641	7.35	18.69
23	E00E6MSD	46702.13MSD	06/15/01	0705	7.35	18.69
24	E00F6	46702.14	06/15/01	0728	7.35	18.69
25	E00F7	46702.15	06/15/01	0751	7.35	18.69
26	E00F8	46702.16	06/15/01	0814	7.35	18.69
27	E00G0	46702.17	06/15/01	0837	7.35	18.69
28	E00G1	46702.18	06/15/01	0901	7.36	18.69
29	PIBLK5L	5-414-6	06/15/01	1033	7.35	18.69
30	AR1660L35W	5-29-7	06/15/01	1056	7.36	18.69
31	E00G2	46702.19	06/15/01	1143	7.36	18.69
32	E00G3	46702.20	06/15/01	1206	7.36	18.69
33	E00G4	46702.21	06/15/01	1229	7.36	18.70
34	E00G5	46702.22	06/15/01	1253	7.36	18.70
35	E00G6	46702.23	06/15/01	1316	7.36	18.70

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.: E00E6

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	E00G7	46702.24	06/15/01	1339	7.36	18.70
02	E00G8	46702.25	06/15/01	1402	7.36	18.70
03	E00G9	46702.26	06/15/01	1426	7.36	18.70
04	PIBLK5M	5-414-6	06/15/01	1559	7.36	18.70
05	AR1660L35Y	5-29-7	06/15/01	1622	7.36	18.70
06	E00H0	46702.27	06/15/01	1709	7.36	18.70
07	E00H1	46702.28	06/15/01	1732	7.36	18.70
08	E00H3	46702.29	06/15/01	1755	7.36	18.70
09	E00H5	46702.30	06/15/01	1818	7.36	18.70
10	E00H6	46702.31	06/15/01	1842	7.36	18.70
11	E00H7	46702.32	06/15/01	1905	7.36	18.70
12	PIBLK5N	5-414-6	06/15/01	2038	7.36	18.70
13	AR1660L3A5	5-29-7	06/15/01	2101	7.36	18.70
14	PIBLK5Q	5-414-6	06/16/01	1033	7.35	18.69
15	AR1660L3G5	5-29-7	06/16/01	1056	7.35	18.69
16	E00F8DL	46702.16DL	06/16/01	1708	7.36	18.70
17	E00G0DL	46702.17DL	06/16/01	1755	7.36	18.70
18	E00G1DL	46702.18DL	06/16/01	1842	7.36	18.68
19	E00G3DL	46702.20DL	06/16/01	1905	7.36	18.70
20	E00G4DL	46702.21DL	06/16/01	1928	7.36	18.70
21	E00G6DL	46702.23DL	06/16/01	2014	7.36	18.69
22	PIBLK5S	5-414-6	06/16/01	2211	7.36	18.69
23	AR1660L3K5	5-29-7	06/16/01	2234	7.35	18.69
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.: E00E6

Lab Sample ID: LC0607SF Date(s) Analyzed: 06/13/01 06/13/01

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	12.67	12.61	12.71	103		
Aroclor-1254	2	13.36	13.31	13.41	92.8		
	3	13.83	13.77	13.87	114		
COLUMN 1	4	14.34	14.29	14.39	98.1		
	5	15.02	14.97	15.07	91.4	99.9	
	1	12.34	12.27	12.37	166		
	2	13.07	13.02	13.12	166		
	3	13.96	13.91	14.01	150		
COLUMN 2	4	14.94	14.90	15.00	93.4		
	5	15.41	15.36	15.46	142	143	35.5
	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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FORM X PCB

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

ELCS2

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Lab Sample ID: LD0607SF Date(s) Analyzed: 06/13/01 06/13/01

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	12.67	12.61	12.71	175		
Aroclor-1254	2	13.36	13.31	13.41	125		
	3	13.82	13.77	13.87	155		
COLUMN 1	4	14.34	14.29	14.39	133		
	5	15.02	14.97	15.07	129	143	
	1	12.33	12.27	12.37	229		
	2	13.07	13,02	13.12	229		
	3	13.96	13.91	14.01	208		
COLUMN 2	4	14.94	14.90	15.00	131		
	5	15.41	15.36	15.46	200	199	32.7
	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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FORM X PCB

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00E6

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Lab Sample ID: 46702.11 Date(s) Analyzed: 06/15/01 06/15/01

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	85.0		
Aroclor-1242	2	9.70	9.65	9.75	77.0		
	3						
COLUMN 1	4	11.64	11.59	11.69	276		
	5					146	
	1	10.40	10.35	10.45	326		
	2	11.18	11.13	11.23	103		
	3						
COLUMN 2	4	12.63	12.59	12.69	251		
	5					227	55.5
	1	12.63	12.58	12.68	189		
Aroclor-1254	2						
	3	13.78	13.74	13.84	174		
COLUMN 1	4	14.31	14.26	14.36	282		
	5	14.99	14.95	15.05	224	217	
	1						
	2	13.02	12.97	13.07	354		
	3	13.93	13.89	13.99	92.7		
COLUMN 2	4						
	5	15.39	15.35	15.45	245	230	5.8
	1	14.31	14.26	14.36	160		
Aroclor-1260	2	14.80	14.76	14.86	184		
	3	15.24	15.21	15.31	223		
COLUMN 1	4	15.71	15.67	15.77	92.7		
	5	16.16	16.11	16.21	107	153	
	1						
	2	14.72	14.68	14.78	264		
	3	14.92	14.88	14.98	181		
COLUMN 2	4	16.09	16.05	16.15	74.4		
	5	16.32	16.28	16.38	102	155	1.3

At least 3 peaks are required for identification of multicomponent analytes

FORM X PCB

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00E6MS

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Lab Sample ID: 46702.12MS Date(s) Analyzed: 06/15/01 06/15/01

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	42.0		
Aroclor-1242	2	9.70	9.65	9.75	95.1		
	3	10.64	10.59	10.69	91.8		
COLUMN 1	4	11.64	11.59	11.69	372		
	5					150	
	1	10.40	10.35	10.45	157		
	2	11.18	11.13	11.23	86.9		
	3						
COLUMN 2	4	12.63	12.59	12.69	327		
	5					190	26.7
	1	12.62	12.58	12.68	346		
Aroclor-1254	2						
	3	13.78	13.74	13.84	313		
COLUMN 1	4	14.31	14.26	14.36	398		
	5	14.99	14.95	15.05	359	354	
	1						
	2	13.02	12.97	13.07	462		
	3	13.93	13.89	13.99	241		
COLUMN 2	4						
	5	15.39	15.35	15.45	388	364	2.8
	1	14.31	14.26	14.36	226		
Aroclor-1260	2	14.80	14.76	14.86	257		
	3	15.25	15.21	15.31	324		
COLUMN 1	4	15.72	15.67	15.77	107		
	5	16.16	16.11	16.21	106	204	
	1						
	2	14.72	14.68	14.78	353		
	3	14.92	14.88	14.98	224		
COLUMN 2	4	16.09	16.05	16.15	74.9		
	5	16.32	16.28	16.38	87.4	185	9.8

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.

E00E6MSD

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Lab Sample ID: 46702.13MSD Date(s) Analyzed: 06/15/01 06/15/01

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	82.5		
Aroclor-1242	2	9.71	9.65	9.75	79.9		
	3	10.64	10.59	10.69	107		
COLUMN 1	4	11.64	11.59	11.69	379		
	5					162	
	1	10.40	10.35	10.45	214		
	2	11.18	11.13	11.23	90.3		
	3						
COLUMN 2	4	12.63	12.59	12.69	411		
	5					238	46.9
	1	12.62	12.58	12.68	350		
Aroclor-1254	2						
	3	13.78	13.74	13.84	335		
COLUMN 1	4	14.31	14.26	14.36	432		
	5	14.99	14.95	15.05	403	380	
	1						
	2	13.02	12.97	13.07	528		
	3	13.93	13.89	13.99	248		
COLUMN 2	4						
	5	15.39	15.35	15.45	447	408	7.1
	1	14.31	14.26	14.36	246		
Aroclor-1260	2	14.80	14.76	14.86	283		
	3						
COLUMN 1	4	15.71	15.67	15.77	122		
	5	16.16	16.11	16.21	157	202	
	1						
	2						
	3	14.92	14.88	14.98	259		
COLUMN 2	4	16.09	16.05	16.15	89.2		
	5	16.32	16.28	16.38	104	151	28.9

At least 3 peaks are required for identification of multicomponent analytes

FORM X PCB

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00F8

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Lab Sample ID: 46702.16 Date(s) Analyzed: 06/15/01 06/15/01

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	3200		
Aroclor-1242	2	9.70	9.65	9.75	5670		
	3						
COLUMN 1	4	11.64	11.59	11.69	7460		
	5	12.80	12.76	12.86	6160	5620	
	1	10.39	10.35	10.45	8110		
	2	11.18	11.13	11.23	4680		
	3						
COLUMN 2	4						
	5	13.14	13.10	13.20	9630	7470	28.3
	1						
Aroclor-1254	2	13.31	13.27	13.37	1010		
	3	13.79	13.74	13.84	872		
COLUMN 1	4	14.31	14.26	14.36	777		
	5	14.99	14.95	15.05	668	832	
	1						
	2						
	3	13.93	13.89	13.99	2660		
COLUMN 2	4	14.92	14.88	14.98	765		
	5	15.39	15.35	15.45	787	1400	50.9
	1	14.31	14.26	14.36	442		
Aroclor-1260	2	14.80	14.76	14.86	556		
	3	15.25	15.21	15.31	560		
COLUMN 1	4	15.72	15.67	15.77	211		
	5	16.16	16.11	16.21	226	399	
	1						
	2	14.72	14.68	14.78	1160		
	3	14.92	14.88	14.98	333		
COLUMN 2	4	16.09	16.05	16.15	206		
	5	16.32	16.28	16.38	225	481	18.6

At least 3 peaks are required for identification of multicomponent analytes

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10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00F8DL

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Lab Sample ID: 46702.16DL Date(s) Analyzed: 06/16/01 06/16/01

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	8.43	8.37	8.47	8240		
Aroclor-1242	2	9.70	9.65	9.75	14600		
	3	10.65	10.59	10.69	7720		
COLUMN 1	4	11.65	11.59	11.69	20000		
	5	12.81	12.76	12.86	13400	12800	
	1	10.40	10.35	10.45	18700		
	2	11.19	11.13	11.23	8240		
	3	12.41	12.35	12.45	32700		
COLUMN 2	4						
	5					19900	55.5
	1	12.65	12.58	12.68	6450		
Aroclor-1254	2	13.32	13.27	13.37	2870		
	3	13.80	13.74	13.84	3010		
COLUMN 1	4	14.32	14.26	14.36	3100		
	5	15.00	14.95	15.05	2380	3560	
	1						
	2						
	3	13.94	13.89	13.99	3570		
COLUMN 2	4	14.93	14.88	14.98	1920		
	5	15.40	15.35	15.45	1610	2370	40.1
	1	14.32	14.26	14.36	1760		
Aroclor-1260	2	14.81	14.76	14.86	1940		
	3	15.26	15.21	15.31	1650		
COLUMN 1	4	15.72	15.67	15.77	771		
	5					1530	
	1						
	2						
	3	14.93	14.88	14.98	836		
COLUMN 2	4	16.10	16.05	16.15	326		
	5	16.33	16.28	16.38	403	522	98.2

At least 3 peaks are required for identification of multicomponent analytes

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00G0

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Lab Sample ID: 46702.17 Date(s) Analyzed: 06/15/01 06/15/01

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	3190		
Aroclor-1242	2	9.70	9.65	9.75	3910		
	3						
COLUMN 1	4	11.64	11.59	11.69	5920		
	5	12.80	12.76	12.86	5540	4640	
	1	10.40	10.35	10.45	7220		
	2	11.18	11.13	11.23	3080		
	3						
COLUMN 2	4						
	5	13.14	13.10	13.20	8640	6310	30.5
	1						
Aroclor-1254	2	13.31	13.27	13.37	1140		
	3	13.79	13.74	13.84	653		
COLUMN 1	4	14.31	14.26	14.36	860		
	5	14.99	14.95	15.05	370	756	
	1						
	2						
	3	13.93	13.89	13.99	2550		
COLUMN 2	4	14.92	14.88	14.98	895		
	5	15.39	15.35	15.45	742	1400	59.7
	1	14.31	14.26	14.36	489		
Aroclor-1260	2	14.80	14.76	14.86	571		
	3	15.25	15.21	15.31	495		
COLUMN 1	4	15.72	15.67	15.77	241		
	5	16.16	16.11	16.21	506	460	
	1						
	2						
	3	14.92	14.88	14.98	390		
COLUMN 2	4	16.09	16.05	16.15	230		
	5	16.32	16.28	16.38	269	296	43.4

At least 3 peaks are required for identification of multicomponent analytes

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00G0DL

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Lab Sample ID: 46702.17DL Date(s) Analyzed: 06/16/01 06/16/01

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	8.43	8.37	8.47	8440		
Aroclor-1242	2	9.71	9.65	9.75	10000		
	3						
COLUMN 1	4	11.65	11.59	11.69	15600		
	5	12.81	12.76	12.86	12400	11600	
	1	10.40	10.35	10.45	16800		
	2	11.19	11.13	11.23	4830		
	3						
COLUMN 2	4						
	5	13.15	13.10	13.20	21900	14500	22.2
	1	12.65	12.58	12.68	5410		
Aroclor-1254	2	13.32	13.27	13.37	3460		
	3	13.80	13.74	13.84	1240		
COLUMN 1	4	14.32	14.26	14.36	3300		
	5	15.00	14.95	15.05	1110	2900	
	1						
	2						
	3	13.94	13.89	13.99	3430		
COLUMN 2	4	14.93	14.88	14.98	2140		
	5	15.40	15.35	15.45	1600	2390	19.3
	1	14.32	14.26	14.36	1870		
Aroclor-1260	2	14.81	14.76	14.86	1640		
	3	15.26	15.21	15.31	1150		
COLUMN 1	4	15.72	15.67	15.77	543		
	5					1300	
	1						
	2	14.73	14.68	14.78	2740		
	3	14.93	14.88	14.98	931		
COLUMN 2	4	16.10	16.05	16.15	519		
	5	16.33	16.28	16.38	546	1180	9.7

At least 3 peaks are required for identification of multicomponent analytes

FORM X PCB

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00G1

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Lab Sample ID: 46702.18 Date(s) Analyzed: 06/15/01 06/15/01

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	11400		
Aroclor-1242	2						
	3						
COLUMN 1	4	11.64	11.59	11.69	15800		
	5	12.80	12.76	12.86	15400	14200	
	1	10.40	10.35	10.45	32000		
	2						
	3						
COLUMN 2	4	12.63	12.59	12.69	38800		
	5	13.14	13.10	13.20	20200	30300	72.4
	1	12.63	12.58	12.68	6340		
Aroclor-1254	2	13.31	13.27	13.37	2920		
	3	13.79	13.74	13.84	1160		
COLUMN 1	4	14.31	14.26	14.36	3090		
	5	14.99	14.95	15.05	1180	2940	
	1						
	2						
	3	13.93	13.89	13.99	4980		
COLUMN 2	4	14.93	14.88	14.98	2830		
	5	15.39	15.35	15.45	2640	3480	16.8
	1	14.31	14.26	14.36	1760		
Aroclor-1260	2	14.81	14.76	14.86	1820		
	3	15.25	15.21	15.31	1830		
COLUMN 1	4	15.72	15.67	15.77	735		
	5	16.16	16.11	16.21	1050	1440	
	1						
	2	14.73	14.68	14.78	3690		
	3	14.93	14.88	14.98	1230		
COLUMN 2	4	16.10	16.05	16.15	674		
	5	16.33	16.28	16.38	891	1620	11.8

At least 3 peaks are required for identification of multicomponent analytes

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10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00G1DL

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Lab Sample ID: 46702.18DL Date(s) Analyzed: 06/16/01 06/16/01

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	8.43	8.37	8.47	39700		
Aroclor-1242	2	9.71	9.65	9.75	25400		
	3						
COLUMN 1	4	11.65	11.59	11.69	54400		
	5	12.81	12.76	12.86	39600	39800	
	1	10.40	10.35	10.45	96900		
	2	11.19	11.13	11.23	11100		
	3						
COLUMN 2	4						
	5	13.15	13.10	13.20	60100	56000	33.8
	1						
Aroclor-1254	2	13.32	13.27	13.37	10600		
	3	13.80	13.74	13.84	2720		
COLUMN 1	4	14.32	14.26	14.36	11600		
	5	15.00	14.95	15.05	3730	7160	
	1						
	2						
	3	13.94	13.89	13.99	21000		
COLUMN 2	4	14.93	14.88	14.98	8890		
	5	15.40	15.35	15.45	6880	12200	52.1
	1	14.32	14.26	14.36	6630		
Aroclor-1260	2	14.81	14.76	14.86	6150		
	3	15.26	15.21	15.31	5480		
COLUMN 1	4						
	5					6090	
	1						
	2						
	3	14.93	14.88	14.98	3870		
COLUMN 2	4	16.10	16.05	16.15	2830		
	5	16.33	16.28	16.38	2940	3210	61.9

At least 3 peaks are required for identification of multicomponent analytes

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FORM X PCB

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00G2

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Lab Sample ID: 46702.19 Date(s) Analyzed: 06/15/01 06/15/01

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	60.4		
Aroclor-1242	2	9.70	9.65	9.75	95.7		
	3						
COLUMN 1	4	11.64	11.59	11.69	154		
	5	12.80	12.76	12.86	157	117	
	1						
	2	11.18	11.13	11.23	167		
	3	12.40	12.35	12.45	210		
COLUMN 2	4	12.64	12.59	12.69	181		
	5					186	59.0
	1	12.64	12.58	12.68	53.5		
Aroclor-1254	2	13.31	13.27	13.37	31.9		
	3	13.79	13.74	13.84	49.3		
COLUMN 1	4	14.31	14.26	14.36	56.2		
	5	14.99	14.95	15.05	38.5	45.9	
	1						
	2						
	3	13.93	13.89	13.99	51.2		
COLUMN 2	4	14.92	14.88	14.98	52.5		
	5	15.39	15.35	15.45	42.9	48.9	6.3
	1	14.31	14.26	14.36	32.0		
Aroclor-1260	2	14.80	14.76	14.86	37.8		
	3	15.25	15.21	15.31	40.1		
COLUMN 1	4	15.72	15.67	15.77	15.7		
	5	16.16	16.11	16.21	19.3	29.0	
	1						
	2	14.72	14.68	14.78	72.4		
	3	14.92	14.88	14.98	22.9		
COLUMN 2	4	16.09	16.05	16.15	8.2		
	5	16.32	16.28	16.38	12.4	29.0	0.0

At least 3 peaks are required for identification of multicomponent analytes

FORM X PCB

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00G3

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Lab Sample ID: 46702.20 Date(s) Analyzed: 06/15/01 06/15/01

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	366		
Aroclor-1242	2	9.70	9.65	9.75	444		
	3						
COLUMN 1	4	11.64	11.59	11.69	808		
	5	12.80	12.76	12.86	340	490	
	1						
	2	11.18	11.13	11.23	152		
	3						
COLUMN 2	4	12.63	12.59	12.69	1070		
	5	13.14	13.10	13.20	784	669	30.9
	1	12.64	12.58	12.68	201		
Aroclor-1254	2	13.31	13.27	13.37	128		
	3	13.79	13.74	13.84	126		
COLUMN 1	4	14.31	14.26	14.36	151		
	5	14.99	14.95	15.05	115	144	
	1						
	2						
	3	13.93	13.89	13.99	172		
COLUMN 2	4	14.92	14.88	14.98	157		
	5	15.39	15.35	15.45	124	151	4.7
	1	14.31	14.26	14.36	85.7		
Aroclor-1260	2	14.80	14.76	14.86	90.6		
	3	15.25	15.21	15.31	101		
COLUMN 1	4	15.72	15.67	15.77	32.8		
	5	16.16	16.11	16.21	49.9	72.0	
	1						
	2	14.73	14.68	14.78	180		
	3	14.92	14.88	14.98	68.6		
COLUMN 2	4	16.10	16.05	16.15	19.9		
	5	16.32	16.28	16.38	31.2	74.9	3.9

At least 3 peaks are required for identification of multicomponent analytes

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00G3DL

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Lab Sample ID: 46702.20DL Date(s) Analyzed: 06/16/01 06/16/01

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	8.43	8.37	8.47	475		
Aroclor-1242	2	9.71	9.65	9.75	566		
	3						
COLUMN 1	4	11.65	11.59	11.69	1020		
	5	12.81	12.76	12.86	666	682	
	1						
	2	11.19	11.13	11.23	158		
	3						
COLUMN 2	4	12.64	12.59	12.69	1440		
	5	13.15	13.10	13.20	1020	873	24.6
	1						
Aroclor-1254	2	13.32	13.27	13.37	215		
	3	13.79	13.74	13.84	158		
COLUMN 1	4	14.32	14.26	14.36	195		
	5	15.00	14.95	15.05	156	181	
	1						
	2						
	3	13.94	13.89	13.99	225		
COLUMN 2	4	14.93	14.88	14.98	172		
	5	15.40	15.35	15.45	149	182	0.6
	1	14.32	14.26	14.36	111		
Aroclor-1260	2	14.81	14.76	14.86	118		
	3	15.26	15.21	15.31	134		
COLUMN 1	4	15.72	15.67	15.77	51.6		
	5					104	
	1						
	2	14.73	14.68	14.78	223		
	3	14.93	14.88	14.98	74.7		
COLUMN 2	4	16.10	16.05	16.15	46.7		
	5					115	10.6

At least 3 peaks are required for identification of multicomponent analytes

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00G4

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Lab Sample ID: 46702.21 Date(s) Analyzed: 06/15/01 06/15/01

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	3360		
Aroclor-1242	2	9.70	9.65	9.75	3190		
	3						
COLUMN 1	4	11.64	11.59	11.69	6160		
	5	12.81	12.76	12.86	4630	4340	
	1						
	2	11.18	11.13	11.23	6270		
	3						
COLUMN 2	4	12.63	12.59	12.69	9820		
	5	13.14	13.10	13.20	9990	8690	66.8
	1	12.64	12.58	12.68	2680		
Aroclor-1254	2	13.31	13.27	13.37	3080		
	3	13.79	13.74	13.84	624		
COLUMN 1	4	14.31	14.26	14.36	2730		
	5	14.99	14.95	15.05	941	2010	
	1						
	2						
	3	13.93	13.89	13.99	3500		
COLUMN 2	4	14.93	14.88	14.98	3210		
	5	15.40	15.35	15.45	2300	3000	39.5
	1	14.31	14.26	14.36	1550		
Aroclor-1260	2	14.81	14.76	14.86	1940		
	3	15.25	15.21	15.31	1780		
COLUMN 1	4	15.72	15.67	15.77	614		
	5	16.16	16.11	16.21	622	1300	
	1						
	2	14.73	14.68	14.78	3690		
	3	14.93	14.88	14.98	1400		
COLUMN 2	4	16.10	16.05	16.15	543		
	5	16.33	16.28	16.38	694	1580	19.4

At least 3 peaks are required for identification of multicomponent analytes

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00G4DL

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Lab Sample ID: 46702.21DL Date(s) Analyzed: 06/16/01 06/16/01

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	8.43	8.37	8.47	8630		
Aroclor-1242	2	9.70	9.65	9.75	7990		
	3						
COLUMN 1	4						
	5	12.81	12.76	12.86	14200	10300	
	1	10.40	10.35	10.45	22800		
	2	11.19	11.13	11.23	9540		
	3						
COLUMN 2	4						
	5	13.15	13.10	13.20	21800	18000	54.4
	1						
Aroclor-1254	2	13.32	13.27	13.37	7700		
	3	13.80	13.74	13.84	1180		
COLUMN 1	4	14.31	14.26	14.36	6700		
	5	14.99	14.95	15.05	1850	4360	
	1						
	2						
	3	13.94	13.89	13.99	7170		
COLUMN 2	4	14.93	14.88	14.98	6990		
	5	15.40	15.35	15.45	4370	6180	34.5
	1	14.31	14.26	14.36	3810		
Aroclor-1260	2	14.81	14.76	14.86	4350		
	3	15.26	15.21	15.31	3550		
COLUMN 1	4	15.72	15.67	15.77	1290		
	5	16.16	16.11	16.21	1690	2940	
	1						
	2						
	3	14.93	14.88	14.98	3040		
COLUMN 2	4	16.10	16.05	16.15	759		
	5	16.33	16.28	16.38	972	1590	59.6

At least 3 peaks are required for identification of multicomponent analytes

FORM X PCB

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00G6

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Lab Sample ID: 46702.23 Date(s) Analyzed: 06/15/01 06/15/01

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						
	3	10.58	10.59	10.69	1750		
COLUMN 1	4	11.65	11.59	11.69	3340		
	5	12.81	12.76	12.86	3760	2950	
	1						
	2						
	3	12.41	12.35	12.45	4470		
COLUMN 2	4	12.64	12.59	12.69	3440		
	5	13.14	13.10	13.20	5130	4350	38.4
	1	12.63	12.58	12.68	1590		
Aroclor-1254	2	13.32	13.27	13.37	2210		
	3	13.79	13.74	13.84	1570		
COLUMN 1	4	14.31	14.26	14.36	1510		
	5	14.99	14.95	15.05	1340	1640	
	1						
	2						
	3	13.94	13.89	13.99	1290		
COLUMN 2	4	14.93	14.88	14.98	1990		
	5	15.39	15.35	15.45	1600	1630	0.6
	1	14.31	14.26	14.36	858		
Aroclor-1260	2	14.80	14.76	14.86	997		
	3	15.25	15.21	15.31	1230		
COLUMN 1	4	15.72	15.67	15.77	427		
	5	16.16	16.11	16.21	469	796	
	1						
	2	14.73	14.68	14.78	1660		
	3	14.93	14.88	14.98	868		
COLUMN 2	4	16.10	16.05	16.15	378		
	5	16.33	16.28	16.38	503	852	6.8

At least 3 peaks are required for identification of multicomponent analytes

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FORM X PCB

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00G6DL

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Lab Sample ID: 46702.23DL Date(s) Analyzed: 06/16/01 06/16/01

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-1242 COLUMN 1	1						
	2						
	3	10.68	10.59	10.69	464		
	4	11.65	11.59	11.69	6220		
	5	12.81	12.76	12.86	6790	4490	
Aroclor-1242 COLUMN 2	1						
	2						
	3	12.40	12.35	12.45	8000		
	4	12.64	12.59	12.69	6400		
	5	13.15	13.10	13.20	9150	7850	54.5
Aroclor-1254 COLUMN 1	1	12.63	12.58	12.68	3010		
	2	13.32	13.27	13.37	4120		
	3	13.79	13.74	13.84	2650		
	4	14.32	14.26	14.36	2900		
	5	15.00	14.95	15.05	2090	2950	
Aroclor-1254 COLUMN 2	1						
	2	13.02	12.97	13.07	8080		
	3	13.94	13.89	13.99	2530		
	4	14.93	14.88	14.98	3360		
	5	15.40	15.35	15.45	2750	4180	34.5
Aroclor-1260 COLUMN 1	1	14.32	14.26	14.36	1650		
	2	14.81	14.76	14.86	1840		
	3	15.25	15.21	15.31	2110		
	4	15.72	15.67	15.77	750		
	5	16.16	16.11	16.21	1960	1660	
Aroclor-1260 COLUMN 2	1						
	2	14.73	14.68	14.78	2980		
	3	14.93	14.88	14.98	1460		
	4	16.10	16.05	16.15	711		
	5	16.33	16.28	16.38	731	1470	12.1

At least 3 peaks are required for identification of multicomponent analytes

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00G7

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Lab Sample ID: 46702.24 Date(s) Analyzed: 06/15/01 06/15/01

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						
	3	10.69	10.59	10.69	88.6		
COLUMN 1	4	11.65	11.59	11.69	833		
	5	12.81	12.76	12.86	1060	660	
	1	10.40	10.35	10.45	301		
	2	11.19	11.13	11.23	137		
	3						
COLUMN 2	4	12.64	12.59	12.69	812		
	5					417	58.3
	1	12.63	12.58	12.68	397		
Aroclor-1254	2	13.32	13.27	13.37	550		
	3	13.79	13.74	13.84	358		
COLUMN 1	4	14.31	14.26	14.36	374		
	5	14.99	14.95	15.05	277	391	
	1						
	2						
	3	13.94	13.89	13.99	235		
COLUMN 2	4	14.93	14.88	14.98	414		
	5	15.40	15.35	15.45	353	334	15.7
	1	14.31	14.26	14.36	212		
Aroclor-1260	2	14.81	14.76	14.86	236		
	3	15.25	15.21	15.31	267		
COLUMN 1	4	15.72	15.67	15.77	114		
	5					207	
	1						
	2	14.73	14.68	14.78	378		
	3	14.93	14.88	14.98	180		
COLUMN 2	4	16.10	16.05	16.15	118		
	5	16.33	16.28	16.38	113	197	5.0

At least 3 peaks are required for identification of multicomponent analytes

page 1 of 1

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00H0

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Lab Sample ID: 46702.27 Date(s) Analyzed: 06/15/01 06/15/01

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-1254	2	13.27	13.27	13.37	5.2		
	3	13.79	13.74	13.84	2.3		
COLUMN 1	4	14.32	14.26	14.36	2.4		
	5	15.00	14.95	15.05	5.3	3.8	
	1	12.31	12.25	12.35	4.8		
	2	14.93	12.97	13.07	3.5		
	3						
COLUMN 2	4						
	5	15.40	15.35	15.45	2.3	3.5	7.3
	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

page 1 of 1

FORM X PCB

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00H1

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Lab Sample ID: 46702.28 Date(s) Analyzed: 06/15/01 06/15/01

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	8.43	8.37	8.47	6.6		
Aroclor-1242	2	9.71	9.65	9.75	9.9		
	3	10.59	10.59	10.69	20.0		
COLUMN 1	4	11.65	11.59	11.69	13.7		
	5	12.82	12.76	12.86	15.3	13.1	
	1	10.40	10.35	10.45	21.5		
	2	11.19	11.13	11.23	23.3		
	3	12.41	12.35	12.45	16.2		
COLUMN 2	4	12.64	12.59	12.69	20.6		
	5	13.15	13.10	13.20	14.2	19.2	37.8
	1	12.64	12.58	12.68	10.0		
Aroclor-1254	2	13.27	13.27	13.37	48.3		
	3						
COLUMN 1	4	14.32	14.26	14.36	5.8		
	5	15.00	14.95	15.05	9.2	18.3	
	1	12.31	12.25	12.35	21.8		
	2	13.03	12.97	13.07	14.4		
	3	13.93	13.89	13.99	5.2		
COLUMN 2	4	14.93	14.88	14.98	6.5		
	5	15.40	15.35	15.45	4.7	10.5	54.2
	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

page 1 of 1

FORM X PCB

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00H6

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Lab Sample ID: 46702.31 Date(s) Analyzed: 06/15/01 06/15/01

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	8.43	8.37	8.47	144		
Aroclor-1242	2	9.71	9.65	9.75	379		
	3	10.64	10.59	10.69	337		
COLUMN 1	4						
	5					287	
	1	10.40	10.35	10.45	555		
	2						
	3	12.41	12.35	12.45	648		
COLUMN 2	4	12.64	12.59	12.69	378		
	5					527	83.6
	1	12.65	12.58	12.68	196		
Aroclor-1254	2						
	3						
COLUMN 1	4	14.32	14.26	14.36	144		
	5	15.00	14.95	15.05	180	173	
	1	13.93	12.25	12.35	200		
	2	14.93	12.97	13.07	189		
	3	13.93	13.89	13.99	313		
COLUMN 2	4	14.93	14.88	14.98	82.9		
	5	15.39	15.35	15.45	144	186	7.2
	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

page 1 of 1

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00H7

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Lab Sample ID: 46702.32 Date(s) Analyzed: 06/15/01 06/15/01

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	200		
	3	10.65	10.59	10.69	216		
COLUMN 1	4						
	5	12.82	12.76	12.86	357	258	
	1	10.41	10.35	10.45	250		
	2	11.19	11.13	11.23	991		
	3	12.42	12.35	12.45	152		
COLUMN 2	4						
	5					464	79.8
	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

page 1 of 1

FORM X PCB

HYDROGEN USED AS CARRIER GAS FOR SAMPLE ANALYSES

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061206.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061206.D\ECD2B.CH
Acq On : 12 Jun 2001 14:22 Operator: DDC
Sample : RESC5B Inst : HP_15
Misc : 5-441-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:48 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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	7.35	421918	294309	18.3	16.8
22)	S DCB	18.29	18.68	251404	165603	18.3	16.2
	Target Compounds:						

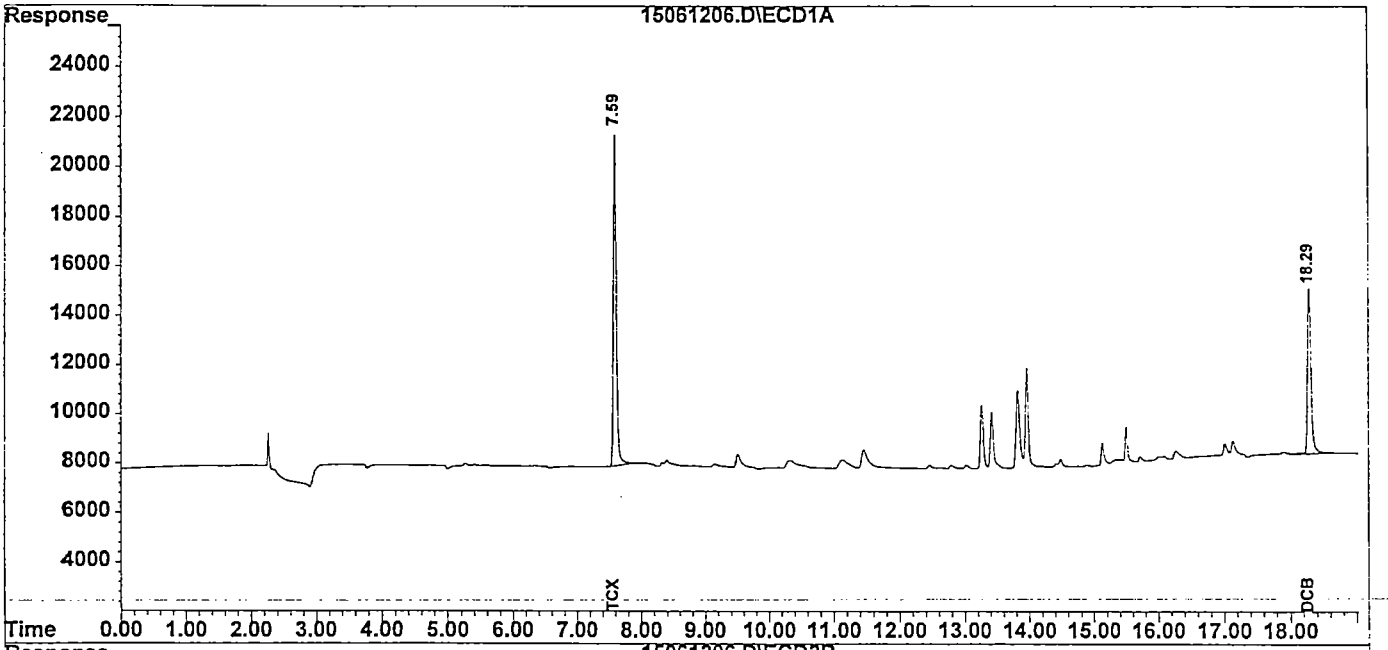
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG EQUB8
Signature S Jackett
Date 6/14/01

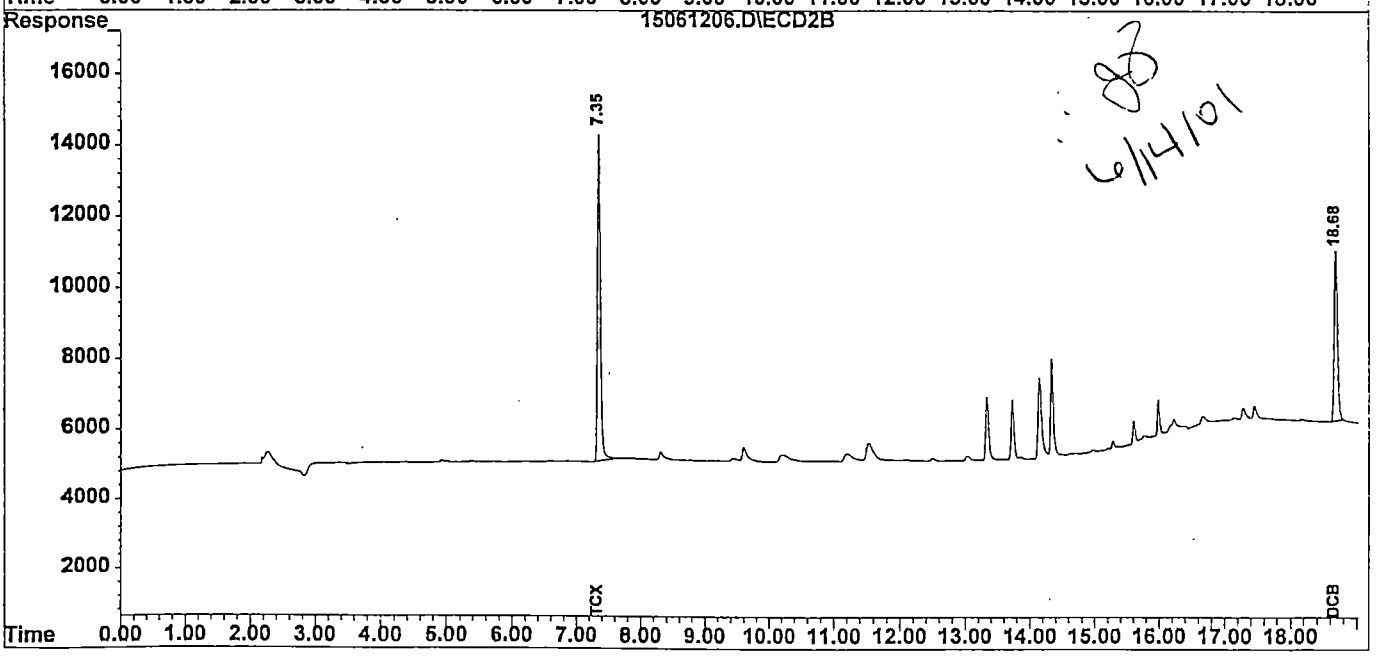
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
15061206.D XPCBF12.M Wed Jun 13 09:58:46 2001 Page 1

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061206.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061206.D\ECD2B.CH
Acq On : 12 Jun 2001 14:22 Operator: DDC
Sample : RESC5B Inst : HP_15
Misc : 5-441-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:48 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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





6/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061207.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061207.D\ECD2B.CH
Acq On : 12 Jun 2001 14:46 Operator: DDC
Sample : AR1221L35B Inst : HP_15
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:48 2001 Quant Results File: XPCBF12.RES
Multi Time: Jun 13 9:48 2001 Quant Results File: xspcbf12.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001

Multi-Component Method : f:\hpchem\hp\15\data\06_12_01\xspcbf12.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	479834	327121	20.8	18.7
22)	S DCB	18.29	18.69	223161	147228	16.2	14.4
	Target Compounds:						
	Multi-Component Compounds:						
	L2 Aroclor-1221	8.04	8.37	136736	97382	552.8	470.5
3)	L2 Aroclor-1221 {2}	8.21	8.71	86655	71307	562.2	480.1
4)	L2 Aroclor-1221 {3}	8.42	8.89	310872	209468	537.9	472.5
	Sum Aroclor-1221			534263	378158	1652.9	1423.2
	Average Aroclor-1221					550.957	474.386

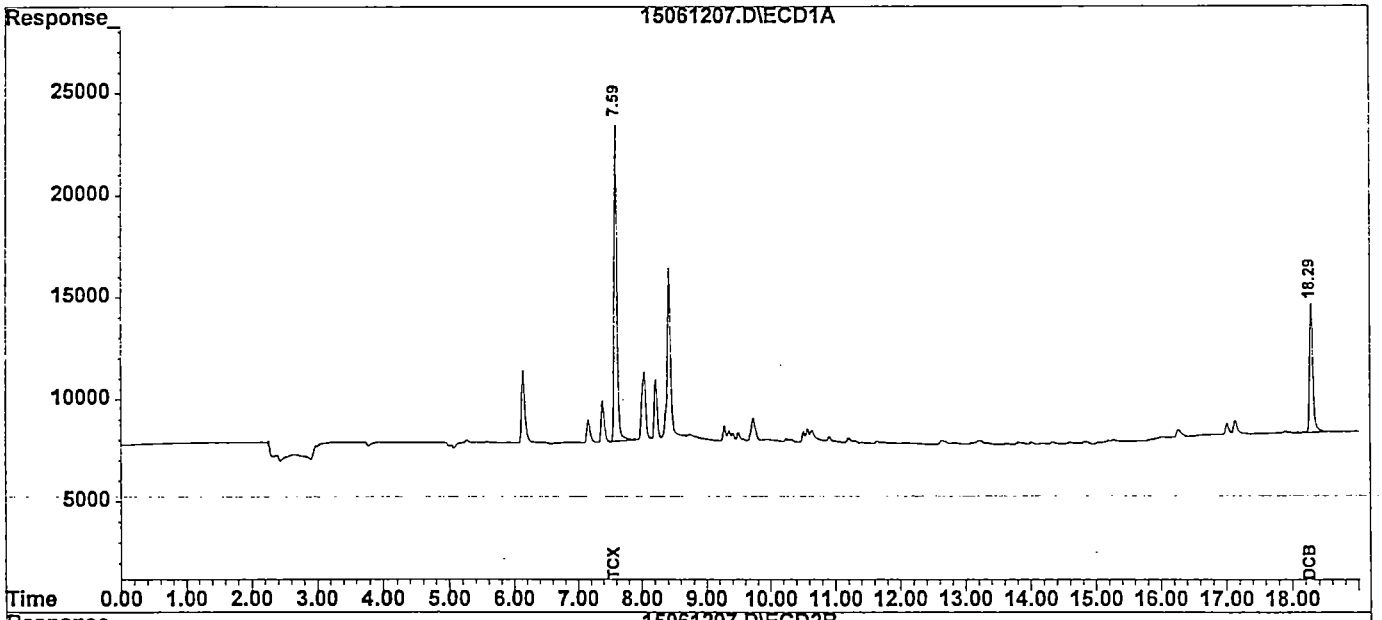
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E00B9
Signature S. Jackett
Date 6/14/01

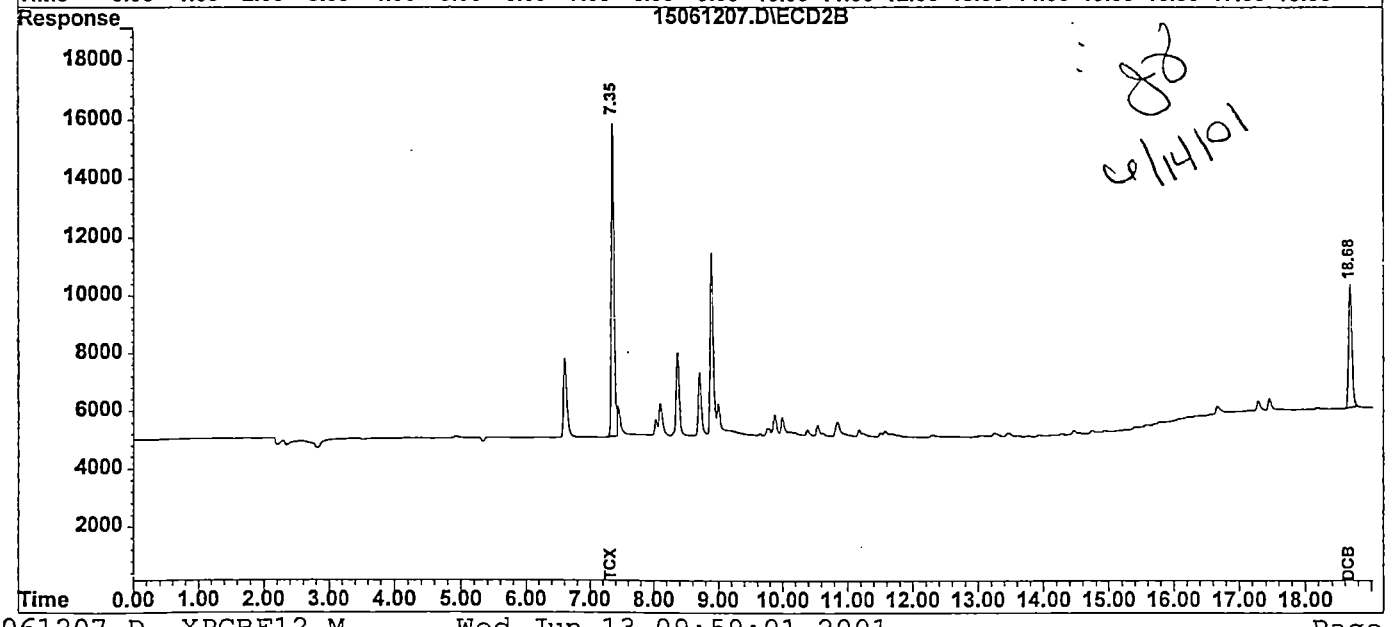
.)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061207.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061207.D\ECD2B.CH
Acq On : 12 Jun 2001 14:46 Operator: DDC
Sample : AR1221L35B Inst : HP_15
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:48 2001 Quant Results File: XPCBF12.RES
Quant Time: Jun 13 9:48 2001 Quant Results File: xspcbf12.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001

Multi-Component Method : f:\hpchem\hp\15\data\06_12_01\xspcbf12.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





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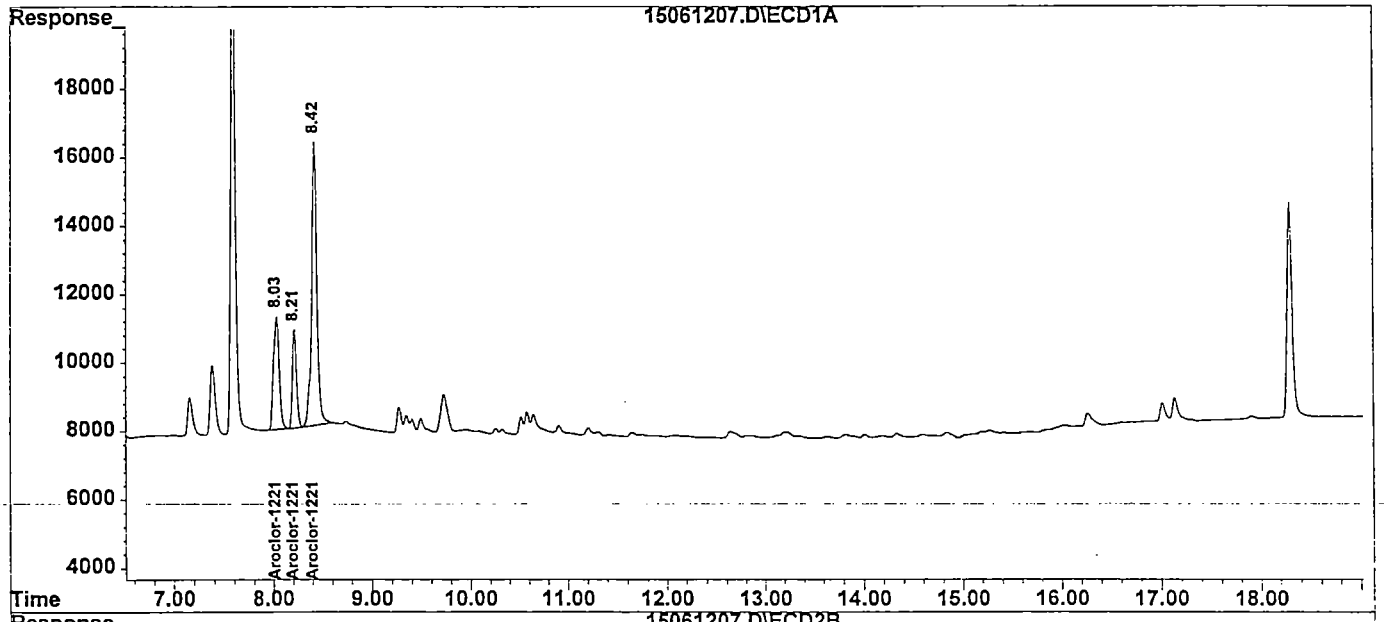
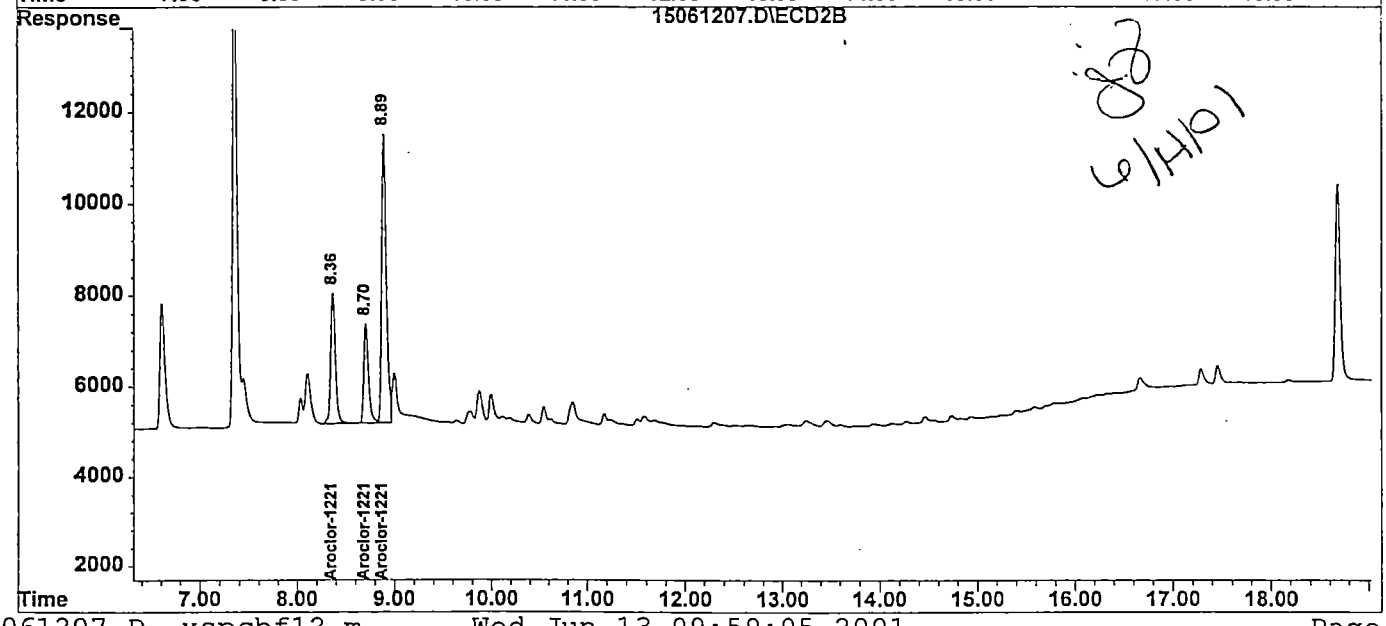
6/14/01

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061207.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061207.D\ECD2B.CH
Acq On : 12 Jun 2001 14:46 Operator: DDC
Sample : AR1221L35B Inst : HP_15
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:48 2001 Quant Results File: xspcbf12.RES
Quant Time: Jun 13 9:48 2001 Quant Results File: xspcbf12.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001

Multi-Component Method : f:\hpchem\hp\15\data\06_12_01\xspcbf12.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





6/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061208.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061208.D\ECD2B.CH
Acq On : 12 Jun 2001 15:09 Operator: DDC
Sample : AR1232L35B Inst : HP_15
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:49 2001 Quant Results File: XPCBF12.RES
Multi Time: Jun 13 9:49 2001 Quant Results File: xspcbf12.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001

Multi-Component Method : f:\hpchem\hp\15\data\06_12_01\xspcbf12.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	463082	331668	20.1	19.0	
22)	S DCB	18.29	18.69	209214	139702	15.2	13.7	
	Target Compounds:							
	Multi-Component Compounds:							
	L3 Aroclor-1232	8.42	8.89	262718	177747	522.2	451.2	
6)	L3 Aroclor-1232 {2}	9.28	10.55	140508	105298	524.9	415.8	
7)	L3 Aroclor-1232 {3}	9.70	11.17	88547	68520	522.9	471.5	
8)	L3 Aroclor-1232 {4}	10.52	12.39	115541	40373	545.9	375.2	#
	Sum Aroclor-1232			607315	391938	2115.8	1713.7	
	Average Aroclor-1232					528.957	428.424	

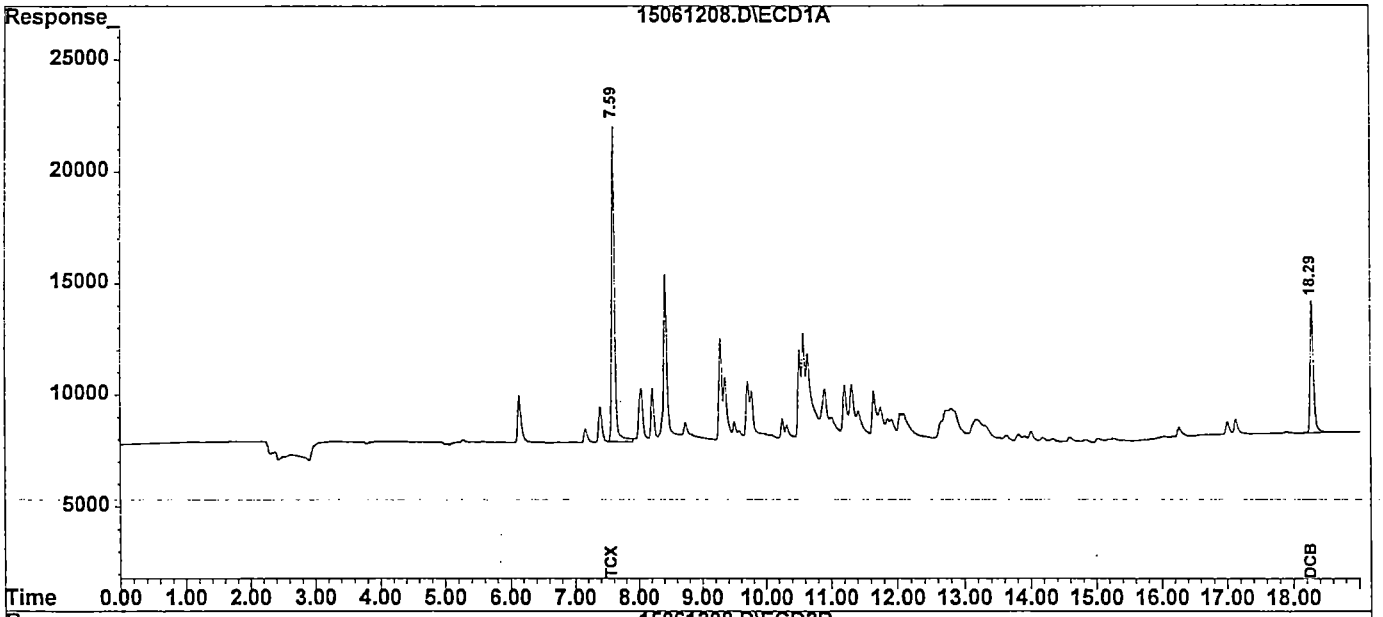
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E00B9
Signature S Jackett
Date 6/14/01

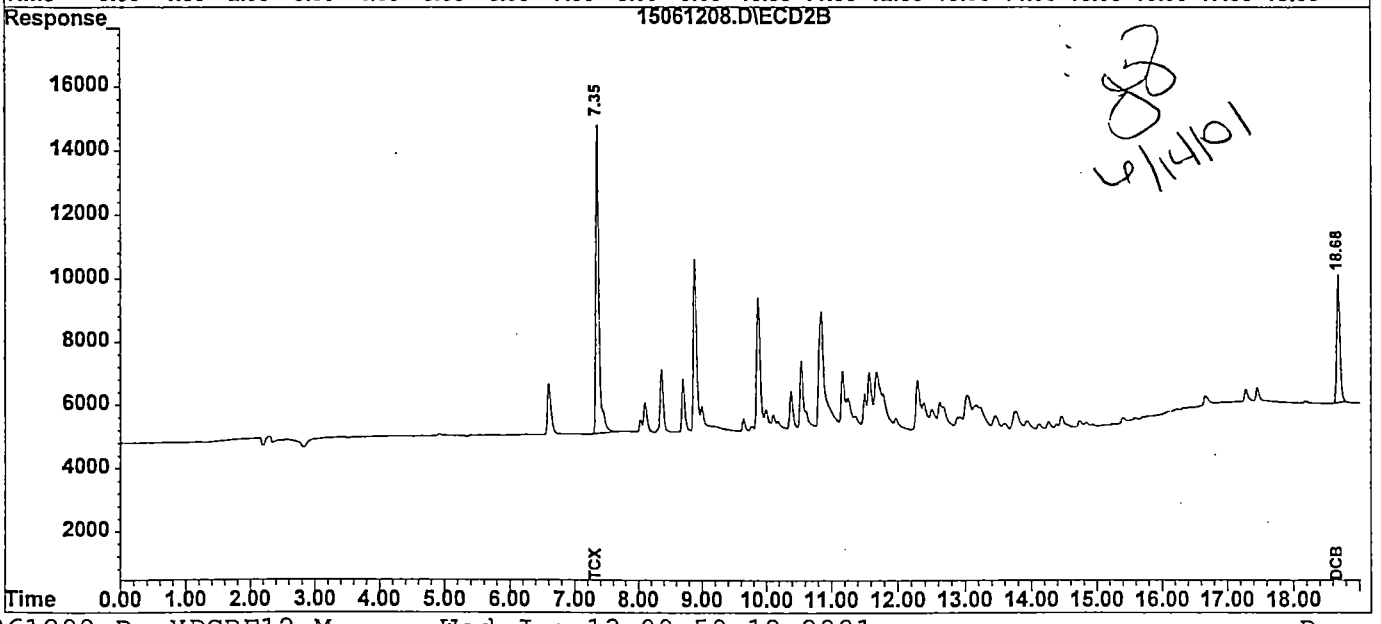
f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061208.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061208.D\ECD2B.CH
Acq On : 12 Jun 2001 15:09 Operator: DDC
Sample : AR1232L35B Inst : HP_15
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:49 2001 Quant Results File: XPCBF12.RES
Quant Time: Jun 13 9:49 2001 Quant Results File: xspcbf12.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001

Multi-Component Method : f:\hpchem\hp\15\data\06_12_01\xspcbf12.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



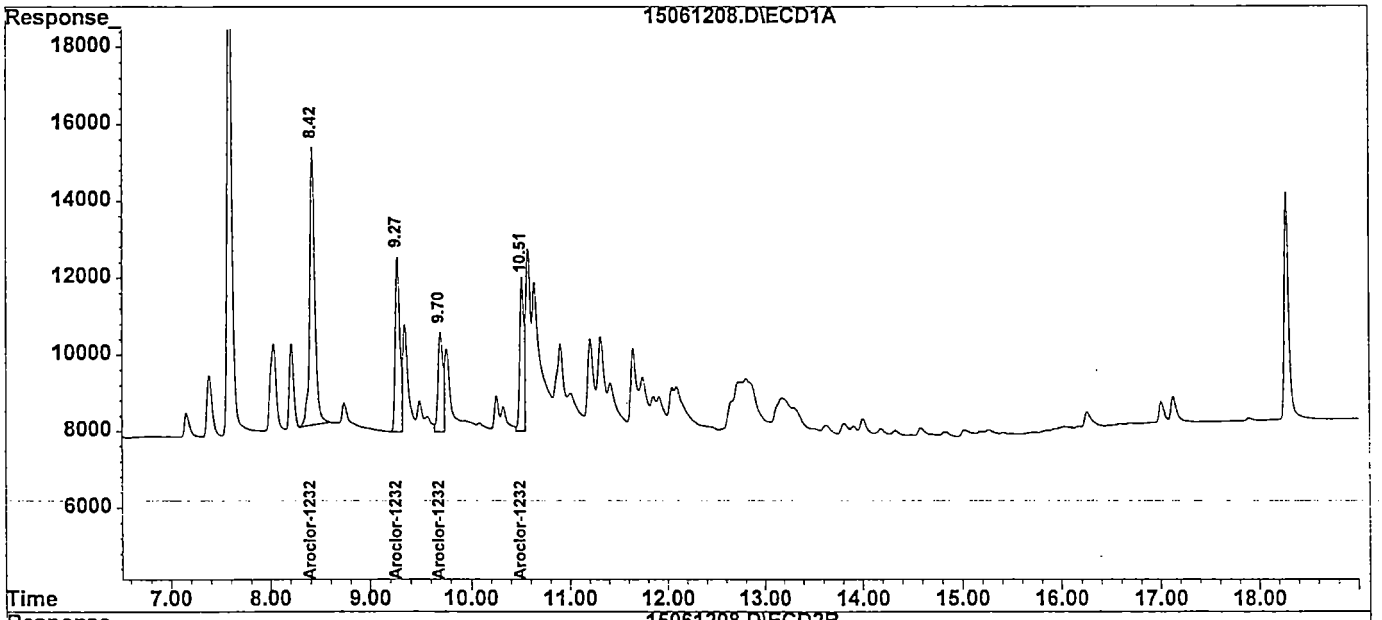


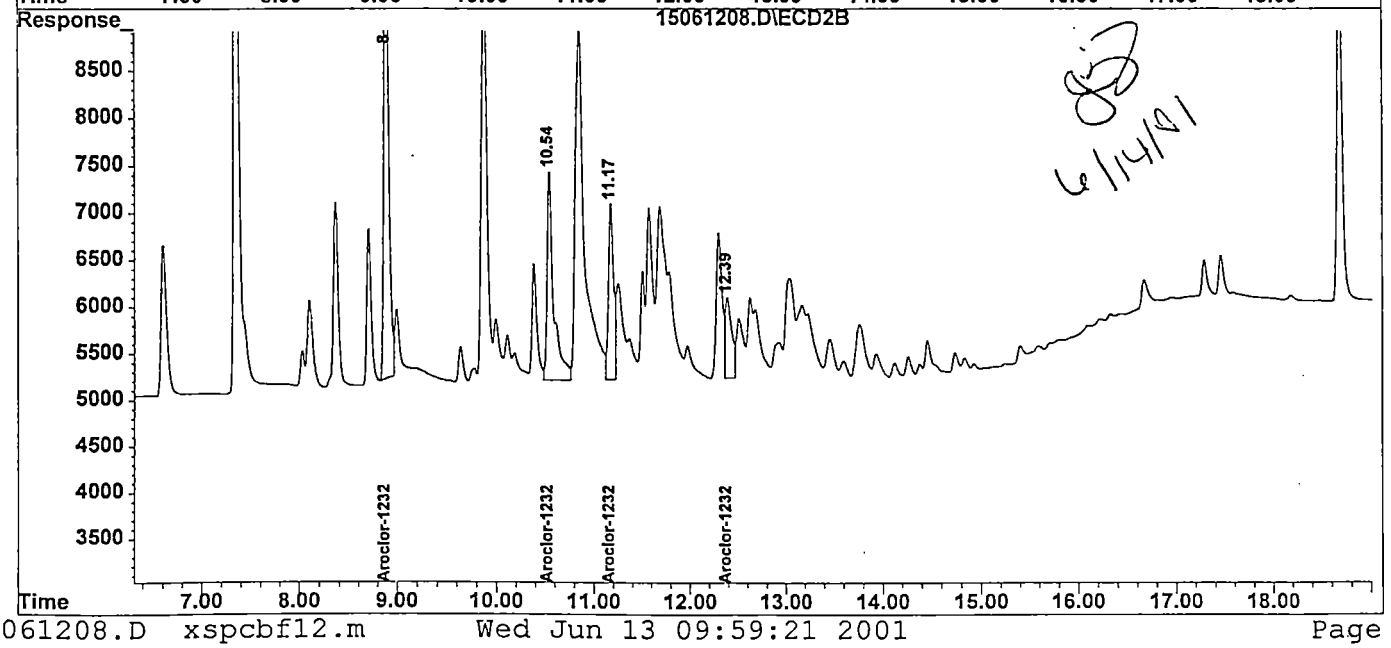
6/14/01

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061208.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061208.D\ECD2B.CH
Acq On : 12 Jun 2001 15:09 Operator: DDC
Sample : AR1232L35B Inst : HP_15
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:49 2001 Quant Results File: xspcbf12.RES
Quant Time: Jun 13 9:49 2001 Quant Results File: xspcbf12.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001

Multi-Component Method : f:\hpchem\hp\15\data\06_12_01\xspcbf12.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





6/14/01

Response Factor Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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

.libration Files
L1 =15061209.D L2 =15061210.D L3 =15061211.D
L4 =15061212.D L5 =15061213.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
7) Aroclor-1242	532.9	504.2	531.4	509.5	497.1	515.0	3.15
8) Aroclor-1242 {2}	327.8	358.7	334.1	324.2	310.6	331.1	5.34
9) Aroclor-1242 {3}	1.1	1.1	1.0	1.0	1.0	1.1 E3	3.96
10) Aroclor-1242 {4}	456.1	482.5	459.3	467.0	459.8	464.9	2.28
11) Aroclor-1242 {5}	829.9	820.9	704.0	722.7	728.1	761.1	7.81

Signal #2 Calibration Files
L1 =15061209.D L2 =15061210.D L3 =15061211.D
L4 =15061212.D L5 =15061213.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
30) Aroclor-1242 #2	173.5	195.2	176.5	191.5	192.9	185.9	5.44
31) Aroclor-1242 {2} #2	277.8	283.3	258.9	297.0	323.0	288.0	8.28
32) Aroclor-1242 {3} #2	193.0	185.6	170.0	194.6	210.5	190.7	7.73
33) Aroclor-1242 {4} #2	145.8	154.3	151.8	174.9	205.4	166.4	14.65
34) Aroclor-1242 {5} #2	176.5	188.1	193.7	241.8	277.2	215.5	19.76

(#) = Out of Range

XPCBF12.M Wed Jun 13 09:25:17 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061209.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061209.D\ECD2B.CH
Acq On : 12 Jun 2001 15:32 Operator: DDC
Sample : AR1242L15B Inst : HP_15
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:22 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_10_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	128295	84955	6.791	5.582	
22)	S DCB	18.29	18.69	52811	35065	4.454	3.383	
	Target Compounds:							
7)	L4 Aroclor-1242	8.42	10.39	53294	17347	123.7	94.3	
8)	L4 Aroclor-1242 {2}	9.70	11.18	32776	27776	125.7	100.3	
9)	L4 Aroclor-1242 {3}	10.64	12.40	111331	19300	104.3	85.8	
10)	L4 Aroclor-1242 {4}	11.65	12.63	45613	14577	128.0	81.6	#
	L4 Aroclor-1242 {5}	12.80	13.19	82994	17649	115.2	66.4	#
	Sum Aroclor-1242			326007	96650	597.0	428.4	
	Average Aroclor-1242					119.393	85.683	

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E0089
Signature S. Jackett
Date 6/14/01

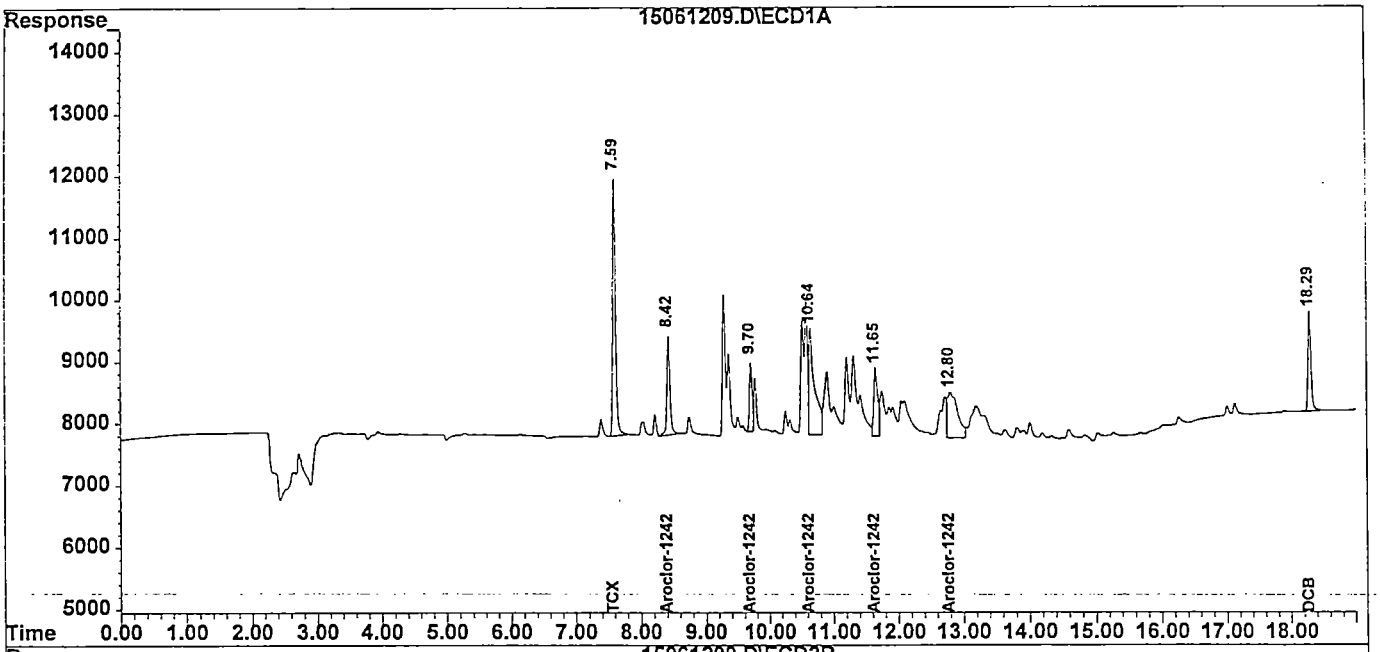
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

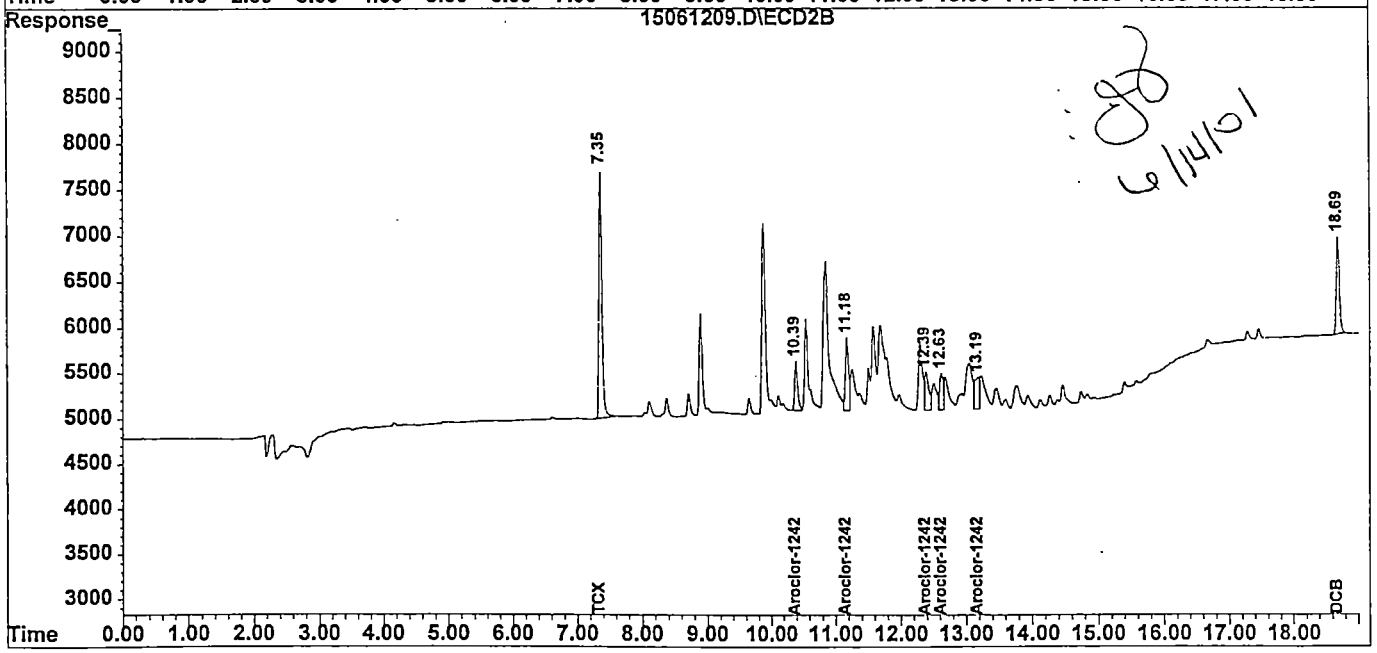
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061209.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061209.D\ECD2B.CH
Acq On : 12 Jun 2001 15:32 Operator: DDC
Sample : AR1242L15B Inst : HP_15
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:22 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_10_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





6/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061210.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061210.D\ECD2B.CH
Acq On : 12 Jun 2001 15:55 Operator: DDC
Sample : AR1242L25B Inst : HP_15
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:22 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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	7.35	247304	160687	12.3	10.2	
22)	S DCB	18.30	18.69	116296	74827	9.874	7.612	
	Target Compounds:							
7)	L4 Aroclor-1242	8.42	10.40	100849	39048	220.0	212.9	
8)	L4 Aroclor-1242 {2}	9.70	11.18	71741	56653	256.6	203.5	
9)	L4 Aroclor-1242 {3}	10.65	12.40	220318	37124	201.6	167.9	
10)	L4 Aroclor-1242 {4}	11.65	12.64	96499	30858	251.0	175.7	#
1[illegible]	L4 Aroclor-1242 {5}	12.81	13.18	164181	37619	215.1	146.8	#
	Sum Aroclor-1242			653588	201301	1144.2	906.7	
	Average Aroclor-1242					228.843	181.349	

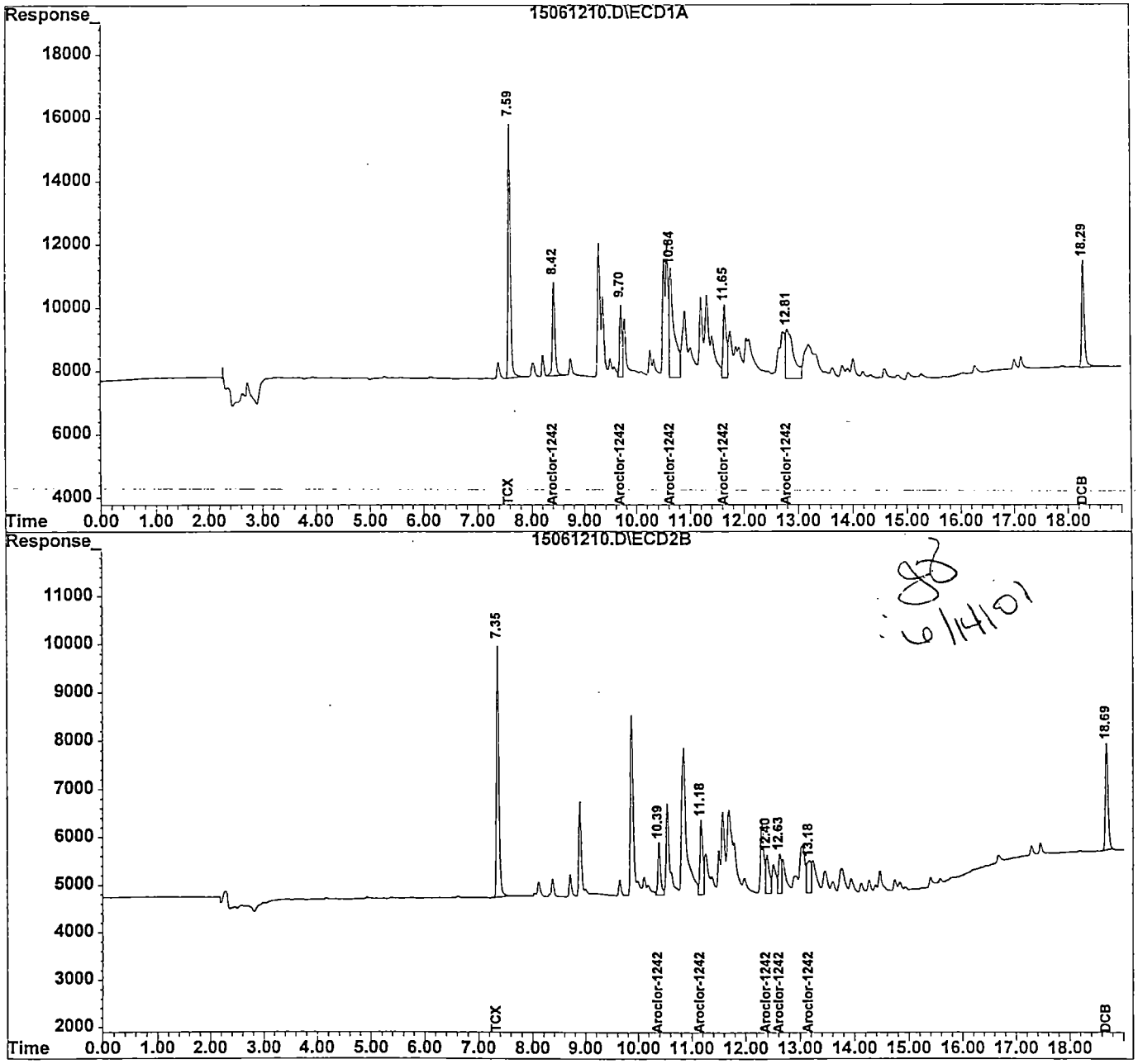
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E00B9
Signature S Jackett
Date 6/14/01

(R)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
15061210.D XPCBF12.M Wed Jun 13 09:22:50 2001

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061210.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061210.D\ECD2B.CH
Acq On : 12 Jun 2001 15:55 Operator: DDC
Sample : AR1242L25B Inst : HP_15
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:22 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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



Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061211.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061211.D\ECD2B.CH
Acq On : 12 Jun 2001 16:18 Operator: DDC
Sample : AR1242L35B Inst : HP_15
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:22 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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	7.60	7.36	468665	302578	22.0	19.0
22)	S DCB	18.30	18.69	233915	152600	20.0	16.5
	Target Compounds:						
7)	L4 Aroclor-1242	8.43	10.40	212546	70620	448.0	385.4
8)	L4 Aroclor-1242 {2}	9.70	11.18	133638	103577	458.9	375.3
9)	L4 Aroclor-1242 {3}	10.65	12.40	414207	67989	385.3	322.3
10)	L4 Aroclor-1242 {4}	11.65	12.64	183716	60719	458.8	358.5
	L4 Aroclor-1242 {5}	12.82	13.18	281606	77491	372.0	322.6
	Sum Aroclor-1242			1225712	380397	2123.0	1764.1
	Average Aroclor-1242					424.604	352.826

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E00B9
Signature S. Jackett
Date 6/14/01

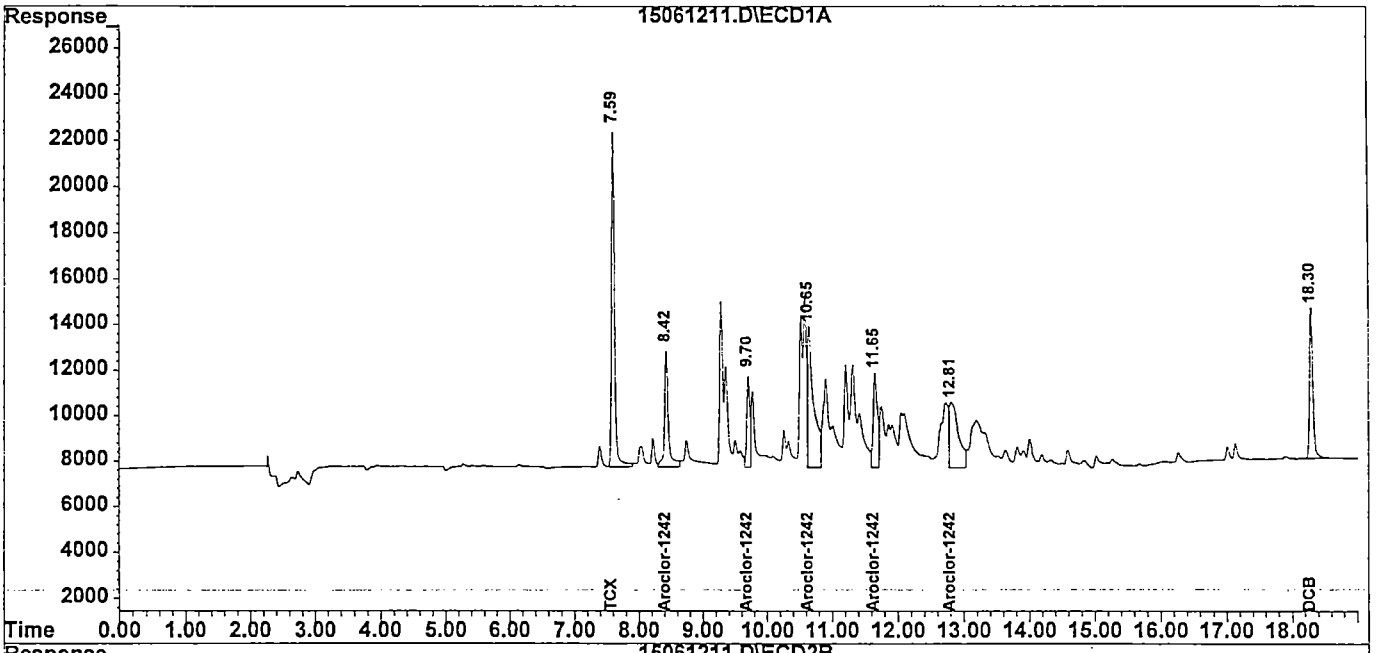
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
15061211.D XPCBF12.M Wed Jun 13 09:23:03 2001 Page 1

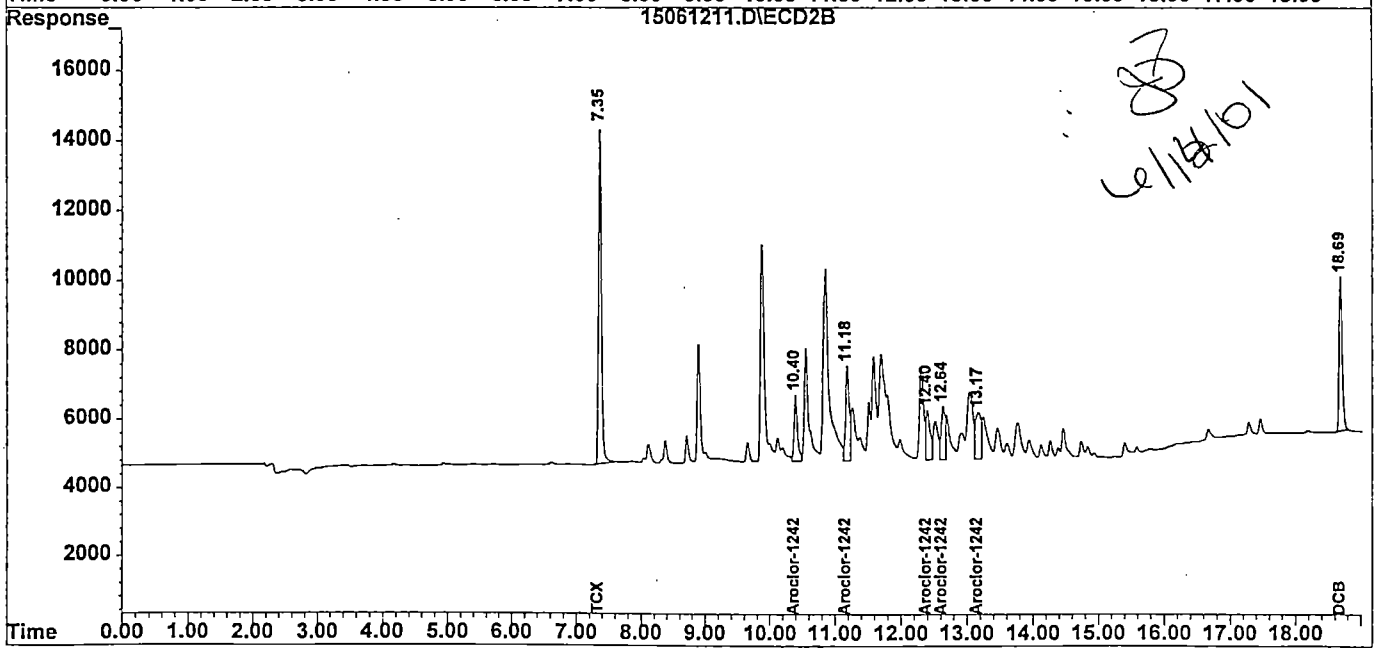
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061211.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061211.D\ECD2B.CH
Acq On : 12 Jun 2001 16:18 Operator: DDC
Sample : AR1242L35B Inst : HP_15
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:22 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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





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6/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061212.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061212.D\ECD2B.CH
Acq On : 12 Jun 2001 16:42 Operator: DDC
Sample : AR1242L45B Inst : HP_15
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:24 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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	7.60	7.36	953385	650705	43.6	41.6
22)	S DCB	18.30	18.70	480344	334111	41.7	38.8
	Target Compounds:						
7)	L4 Aroclor-1242	8.43	10.40	407638	153193	803.8	838.5
8)	L4 Aroclor-1242 {2}	9.71	11.18	259325	237570	848.0	864.6
9)	L4 Aroclor-1242 {3}	10.65	12.40	835888	155688	779.9	774.9 DDC 6-13-01
10)	L4 Aroclor-1242 {4}	11.66	12.64	373587	139952	885.4	846.2m
	L4 Aroclor-1242 {5}	12.82	13.17	578165	193413	769.3	852.4
	Sum Aroclor-1242			2454603	879817	4086.4	4176.6
	Average Aroclor-1242					817.278	835.311

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E00B9
Signature S Jackett
Date 6/14/01

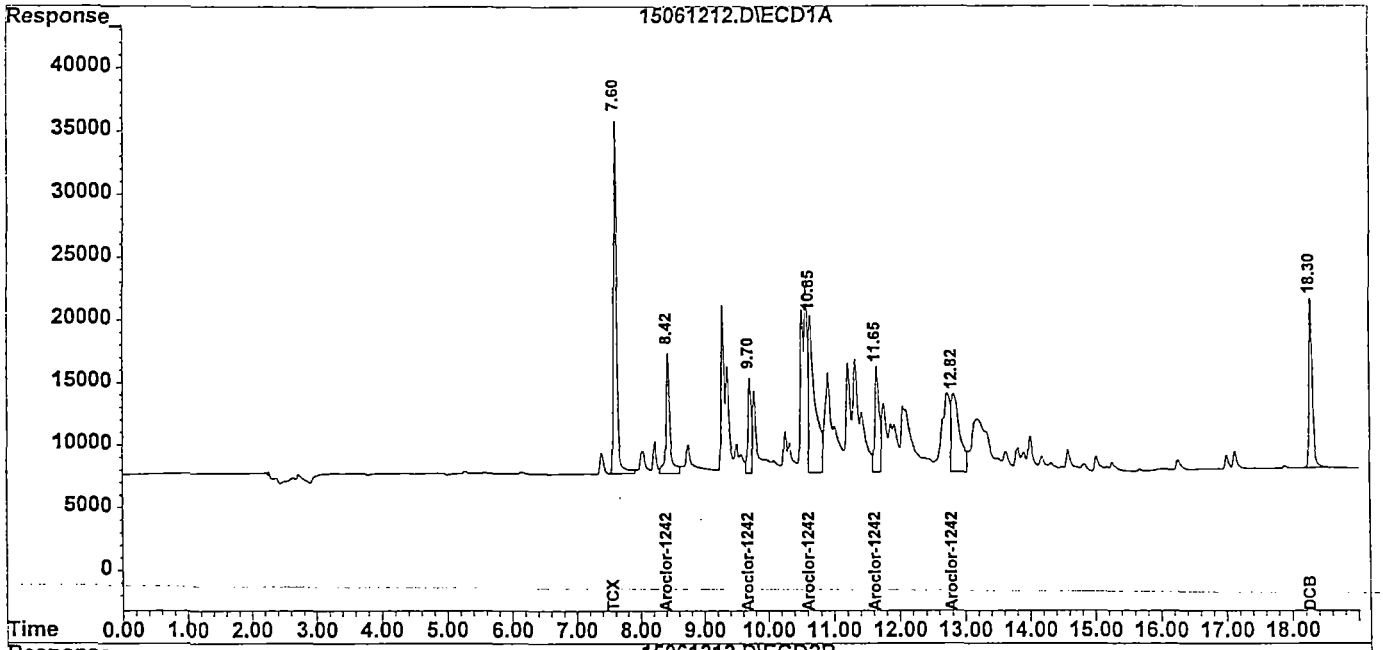
(*)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
15061212.D XPCBF12.M Wed Jun 13 09:26:24 2001 Page 1

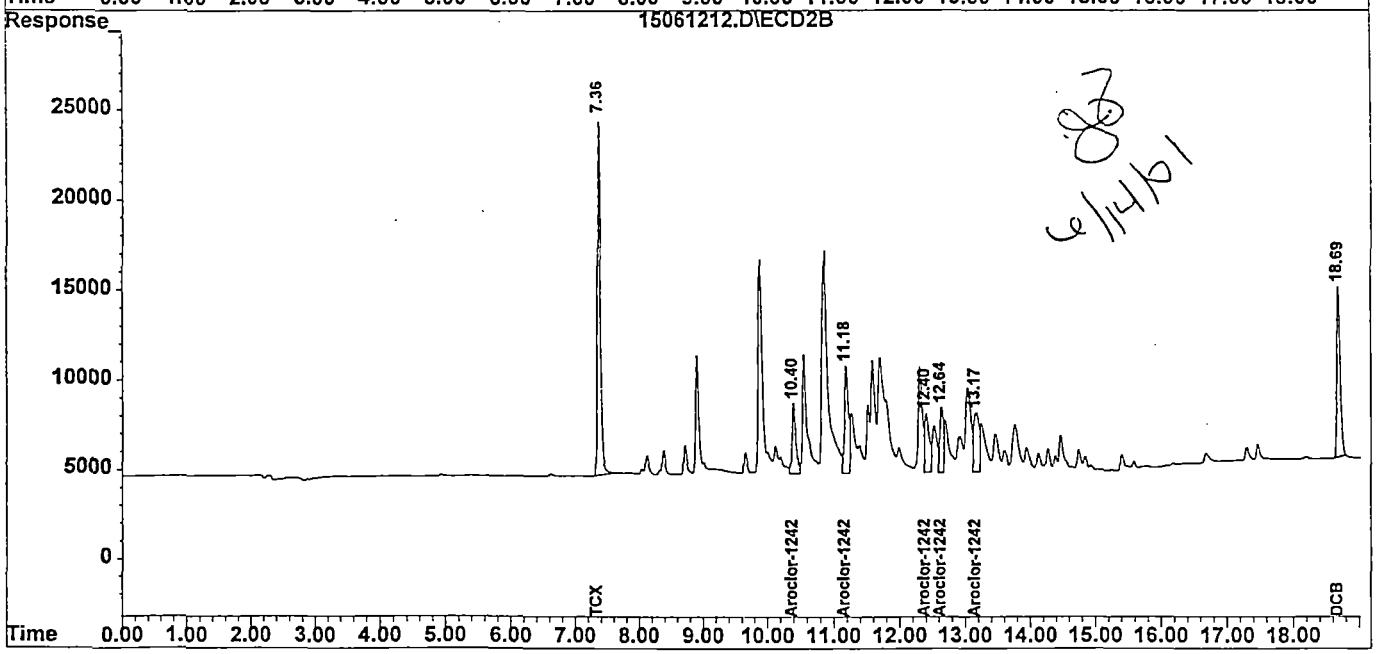
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061212.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061212.D\ECD2B.CH
Acq On : 12 Jun 2001 16:42 Operator: DDC
Sample : AR1242L45B Inst : HP_15
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:24 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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

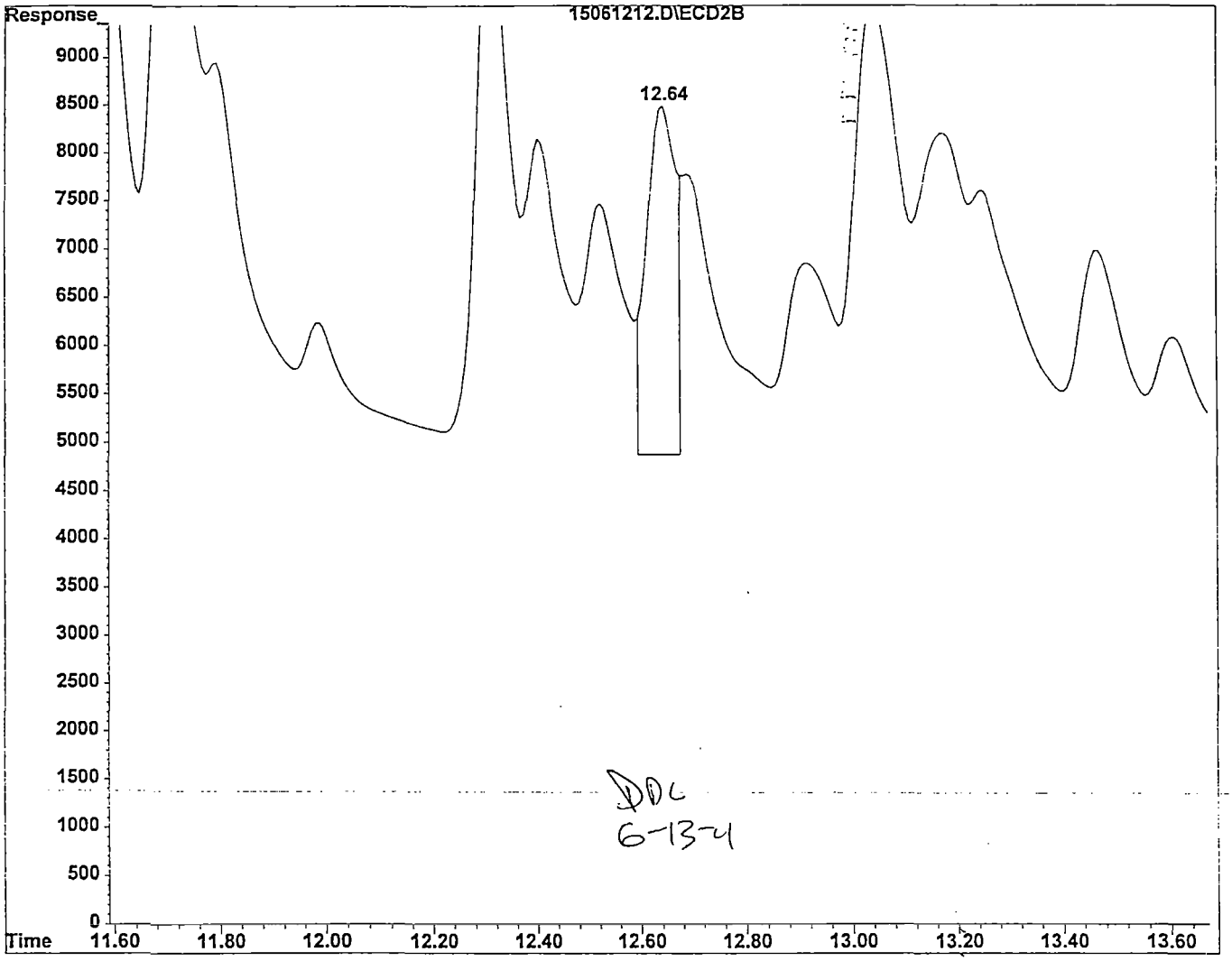




6/14/01

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_12_01\15061212.D
Date Acquired: 12 Jun 2001 16:42
Inst: HP_15 Operator ID: DDC
Name: AR1242L45B
Misc: 5-8-7
Method: F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title: PCB/TOXAPHENE
Quant Time: Jun 13 9:24 2001 Quant Results File: XPCBF12.RES



Aroclor-1242 {4} #2 12.64min area: 139952 m

Integration Time Range: 12.59 - 12.67

F:\HPCHEM\HP\15\DATA\06_12_01\15061212.D
Report generated: Wed Jun 13 09:26:01 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061213.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061213.D\ECD2B.CH
Acq On : 12 Jun 2001 17:05 Operator: DDC
Sample : AR1242L55B Inst : HP_15
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:24 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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	7.60	7.36	1931024	1440097	85.4 E	92.7
22)	S DCB	18.30	18.70	982746	716216	86.8 E	89.7
	Target Compounds:						
7)	L4 Aroclor-1242	8.43	10.40	795404	308574	1558.5 E	1668.5 E
8)	L4 Aroclor-1242 {2}	9.71	11.18	496948	516778	1561.4	1843.9 E
9)	L4 Aroclor-1242 {3}	10.65	12.41	1629553	336835	1522.6 E	1725.4
10)	L4 Aroclor-1242 {4}	11.66	12.64	735725	328628	1655.7	1607.4m
	L4 Aroclor-1242 {5}	12.82	13.16	1164945	443599	1542.1	2012.2 E#
	Sum Aroclor-1242			4822575	1934414	7840.4	8857.3
	Average Aroclor-1242					1568.081	1771.466

PDC 6-13-01

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E0039
Signature S. Jackett
Date 6/14/01

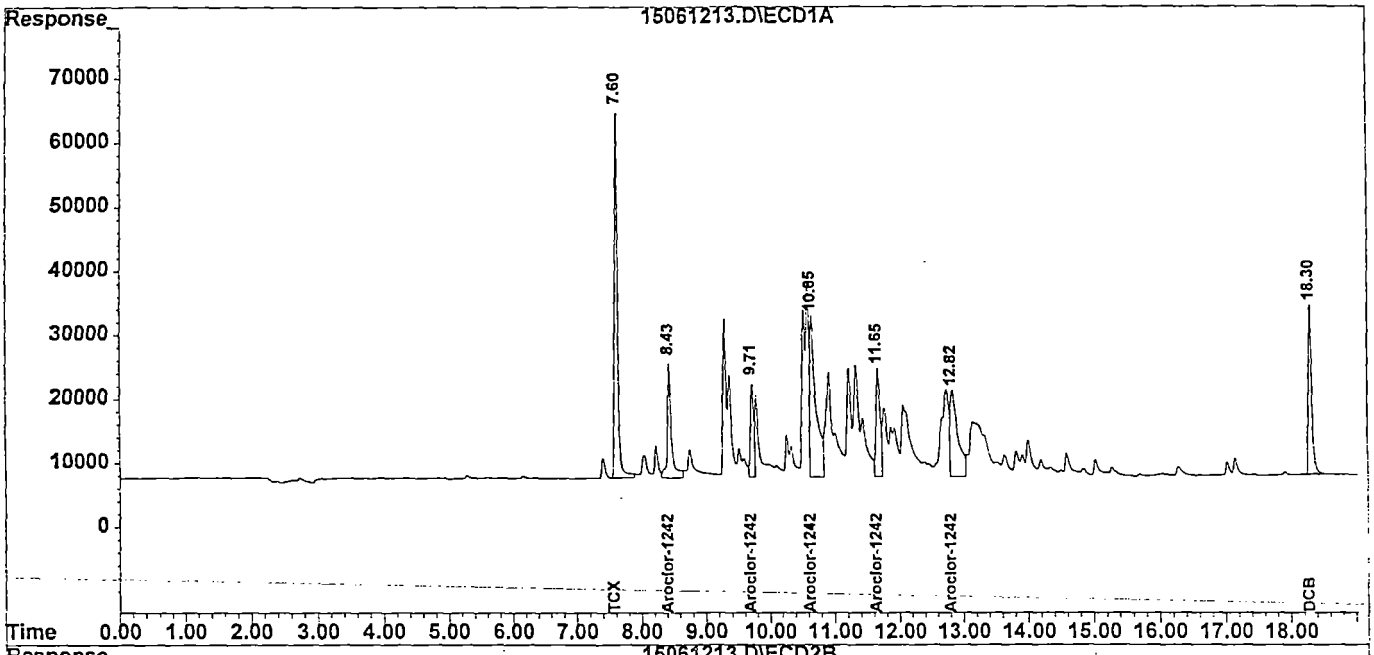
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

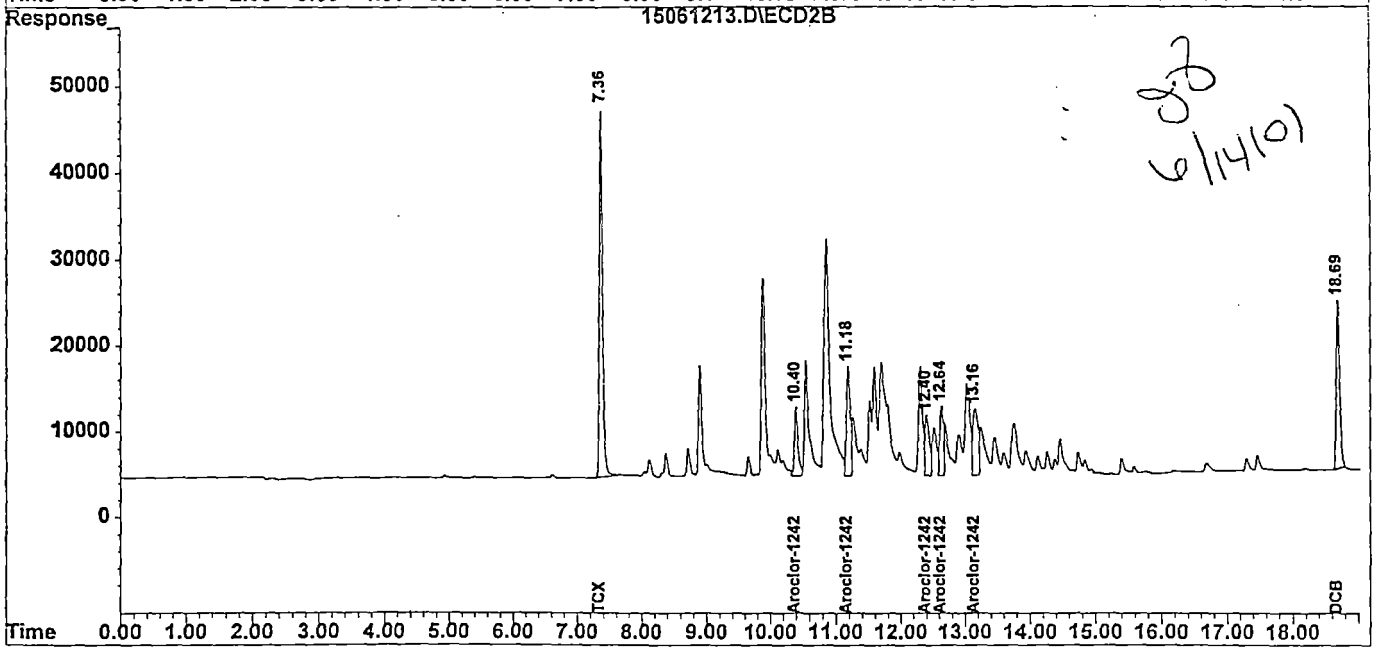
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061213.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061213.D\ECD2B.CH
Acq On : 12 Jun 2001 17:05 Operator: DDC
Sample : AR1242L55B Inst : HP_15
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:24 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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

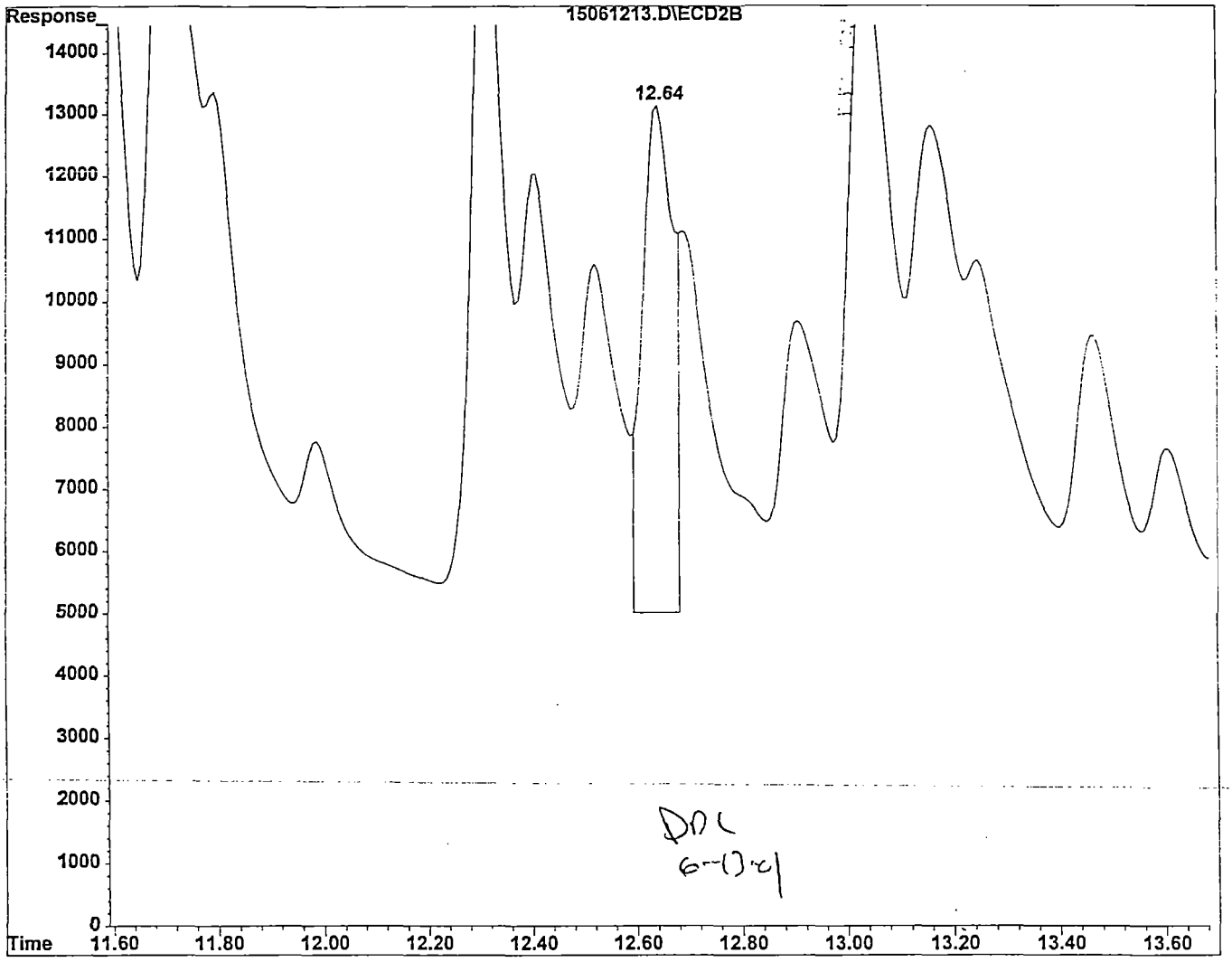




6/14/01

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_12_01\15061213.D
Date Acquired: 12 Jun 2001 17:05
Inst: HP_15 Operator ID: DDC
Name: AR1242L55B
Misc: 5-7-7
Method: F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title: PCB/TOXAPHENE
Quant Time: Jun 13 9:24 2001 Quant Results File: XPCBF12.RES



Aroclor-1242 {4} #2 12.64min area: 328628 m

Integration Time Range: 12.59 - 12.68

F:\HPCHEM\HP\15\DATA\06_12_01\15061213.D
Report generated: Wed Jun 13 09:26:02 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061214.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061214.D\ECD2B.CH
Acq On : 12 Jun 2001 17:28 Operator: DDC
Sample : AR1248L35B Inst : HP_15
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:50 2001 Quant Results File: XPCBF12.RES
Multi Time: Jun 13 9:54 2001 Quant Results File: xspcbf12.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001

Multi-Component Method : f:\hpchem\hp\15\data\06_12_01\xspcbf12.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:						
.) S TCX	7.60	7.36	456685	300153	19.8	17.2
:) S DCB	18.30	18.70	188418	142710	13.7	13.9
Target Compounds:						
ılti-Component Compounds:						
l,) Aroclor-1248	9.29	9.88	133662	161207	400.0	400.0
5) L5 Aroclor-1248 {2}	10.53	11.59	134953	221173	400.0	400.0
5) L5 Aroclor-1248 {3}	11.42	12.53	228222	85042	400.0	400.0
7) L5 Aroclor-1248 {4}	11.76	13.26	183084	175244	400.0	400.0
3) L5 Aroclor-1248 {5}	13.22	13.62	350327	45645	533.0	400.0
Sum Aroclor-1248			1030249	688312	2133.0	2000.0
verage Aroclor-1248					426.590	400.000

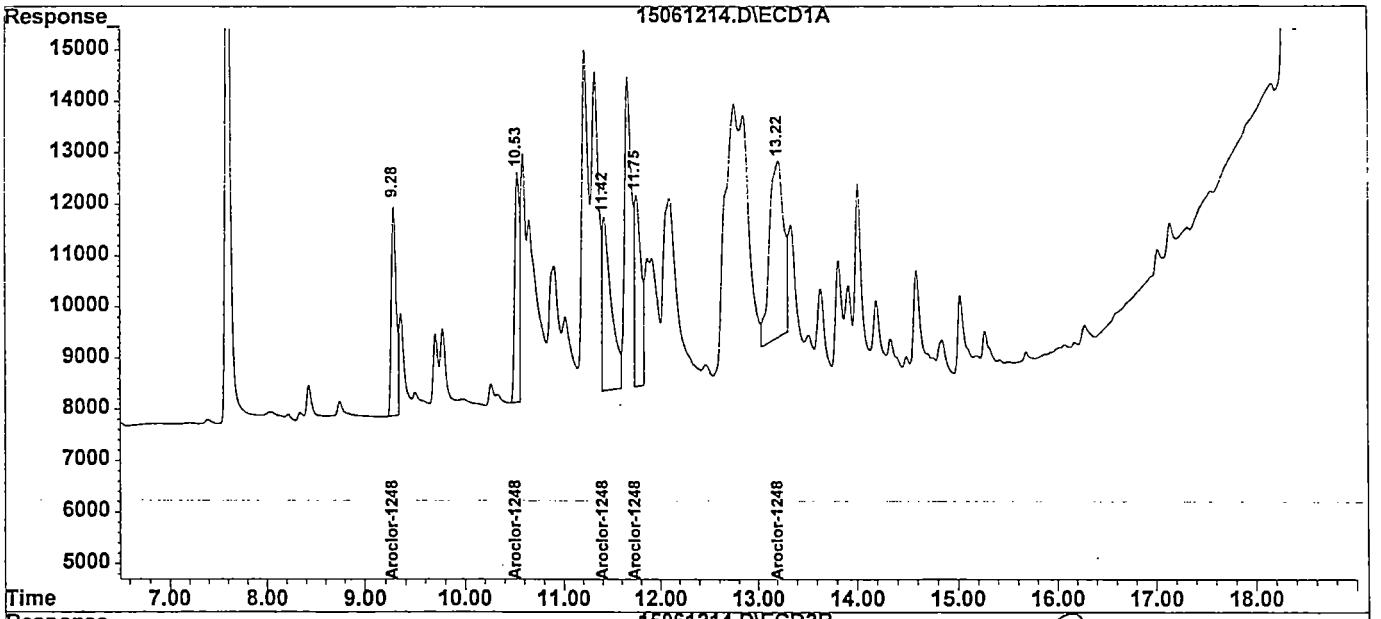
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E0089
Signature S. Jockett
Date 6/14/01

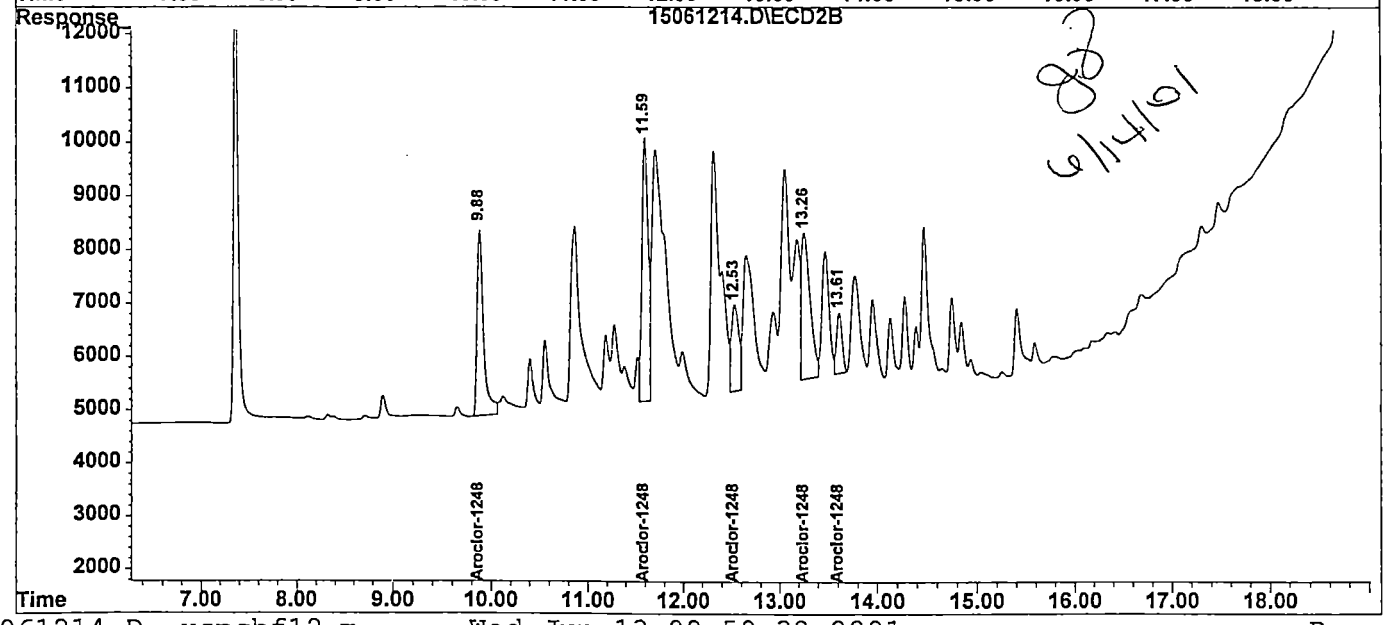
=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061214.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061214.D\ECD2B.CH
Acq On : 12 Jun 2001 17:28 Operator: DDC
Sample : AR1248L35B Inst : HP_15
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:54 2001 Quant Results File: xspcbf12.RES
Quant Time: Jun 13 9:54 2001 Quant Results File: xspcbf12.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001

Multi-Component Method : f:\hpchem\hp\15\data\06_12_01\xspcbf12.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





6/14/01

Response Factor Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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

libration Files
L1 =15061215.D L2 =15061216.D L3 =15061217.D
L4 =15061218.D L5 =15061219.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
12) Aroclor-1254	1.1	1.1	1.2	1.2	1.2	1.2 E3	6.40
13) Aroclor-1254 {2}	683.0	735.5	741.9	767.4	749.0	735.4	4.30
14) Aroclor-1254 {3}	594.4	793.6	1009.5	776.1	744.1	783.5	18.99
15) Aroclor-1254 {4}	899.1	812.3	785.3	783.5	750.2	806.1	7.01
16) Aroclor-1254 {5}	667.9	467.8	452.2	488.6	500.1	515.3	16.94

Signal #2 Calibration Files
L1 =15061215.D L2 =15061216.D L3 =15061217.D
L4 =15061218.D L5 =15061219.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
35) Aroclor-1254 #2	204.0	234.7	243.3	278.4	284.9	249.1	13.34
36) Aroclor-1254 {2} #2	204.4	244.4	262.9	344.9	309.3	273.2	20.15
37) Aroclor-1254 {3} #2	283.5	310.9	340.7	386.2	387.5	341.8	13.42
38) Aroclor-1254 {4} #2	497.8	542.5	553.7	626.9	664.2	577.0	11.66
39) Aroclor-1254 {5} #2	455.9	442.5	445.1	489.2	522.9	471.1	7.31

' = Out of Range

XPCBF12.M Wed Jun 13 09:29:37 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061215.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061215.D\ECD2B.CH
Acq On : 12 Jun 2001 17:51 Operator: DDC
Sample : AR1254L15B Inst : HP_15
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:28 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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	7.60	7.36	110058	73690	4.518	4.468	
22)	S DCB	18.30	18.70	57904	45072	4.976	5.715	
	Target Compounds:							
12)	L6 Aroclor-1254	12.67	12.32	107044	20400	92.7m	67.0	#
13)	L6 Aroclor-1254 {2}	13.36	13.08f	68303	20441	104.2	50.6	#
14)	L6 Aroclor-1254 {3}	13.83	13.96	59443	28349	60.3	72.6	
15)	L6 Aroclor-1254 {4}	14.34	14.95	89908	49784	126.0	86.4	#
1[illegible]	L6 Aroclor-1254 {5}	15.03	15.41	66789	45585	141.1	79.1	#
	Sum Aroclor-1254			391487	164559	524.3	355.7	
	Average Aroclor-1254					104.862	71.131	

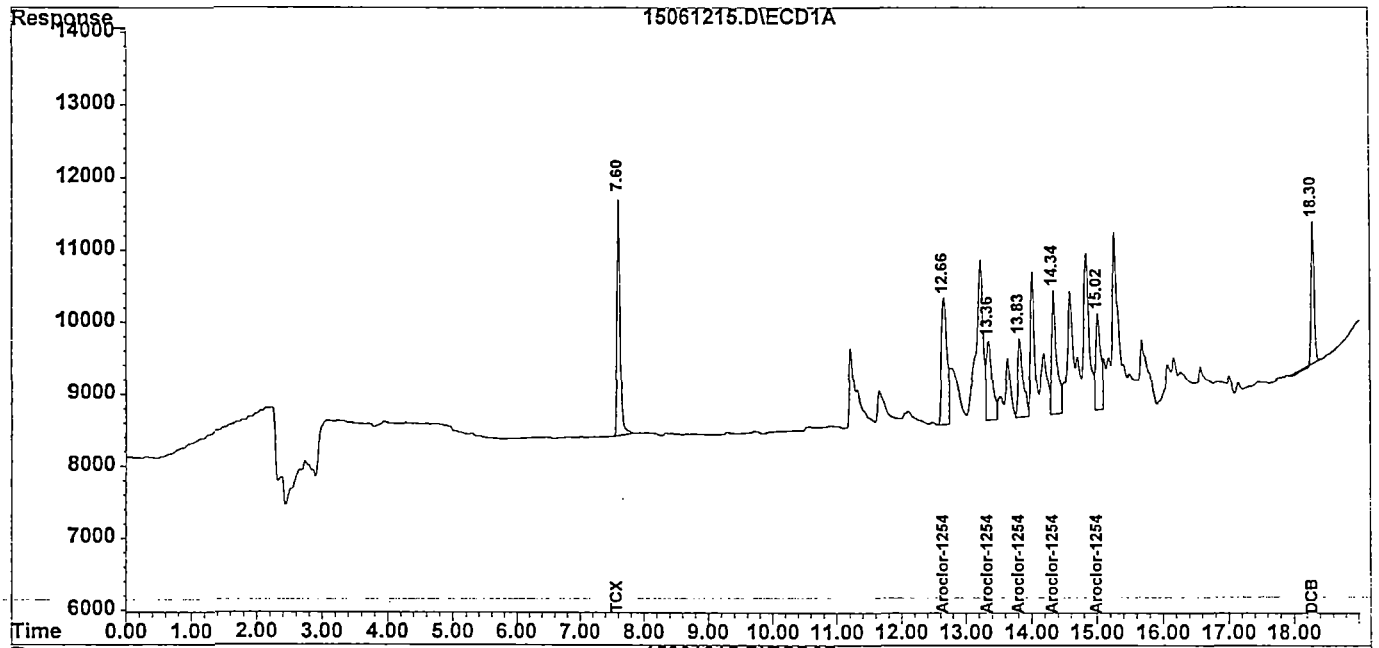
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E00B9
Signature S Dockell
Date 6/14/01

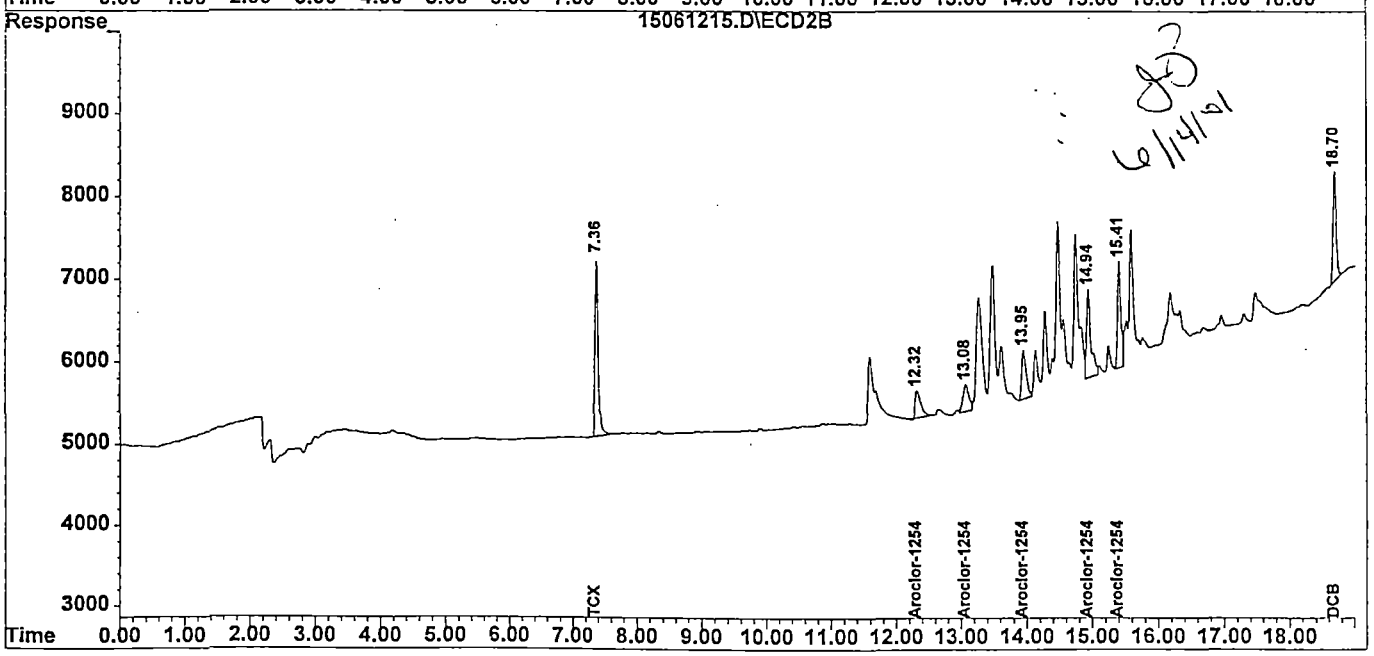
f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061215.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061215.D\ECD2B.CH
Acq On : 12 Jun 2001 17:51 Operator: DDC
Sample : AR1254L15B Inst : HP_15
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:28 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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

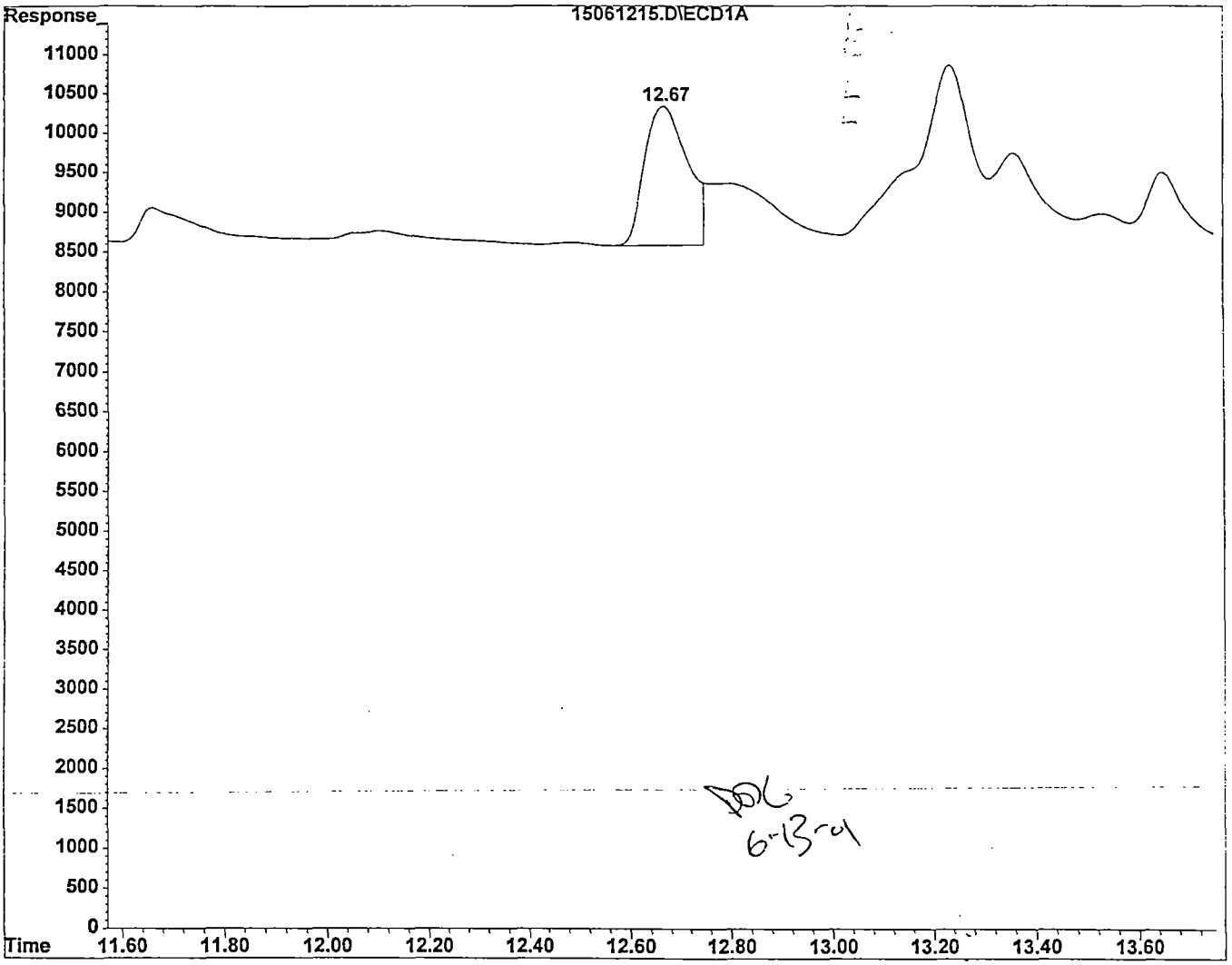




6/14/01

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_12_01\15061215.D
Date Acquired: 12 Jun 2001 17:51
Inst: HP_15 Operator ID: DDC
Name: AR1254L15B
Misc: 5-6-7
Method: F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title: PCB/TOXAPHENE
Quant Time: Jun 13 9:28 2001 Quant Results File: XPCBF12.RES



Aroclor-1254 12.67min area: 107044 m

Integration Time Range: 12.57 - 12.75

F:\HPCHEM\HP\15\DATA\06_12_01\15061215.D
Report generated: Wed Jun 13 09:29:00 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061216.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061216.D\ECD2B.CH
Acq On : 12 Jun 2001 18:15 Operator: DDC
Sample : AR1254L25B Inst : HP_15
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:28 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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	7.60	7.36	221747	150128	9.384	9.359	
22)	S DCB	18.30	18.70	111876	79779	9.449	9.628	
	Target Compounds:							
12)	L6 Aroclor-1254	12.65	12.32	219924	46949	173.3m DDC 6-13-01	170.2	
13)	L6 Aroclor-1254 {2}	13.36	13.08	147106	48874	226.2	136.6	#
14)	L6 Aroclor-1254 {3}	13.83	13.96	158712	62181	177.3	170.4	
15)	L6 Aroclor-1254 {4}	14.34	14.95	162462	108500	220.6	195.3	
	L6 Aroclor-1254 {5}	15.02	15.41	93555	88491	182.0	161.4	
	Sum Aroclor-1254			781759	354995	979.4	834.0	
	Average Aroclor-1254					195.875	166.804	

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG EQ089
Signature S. Zackett
Date 6/14/01

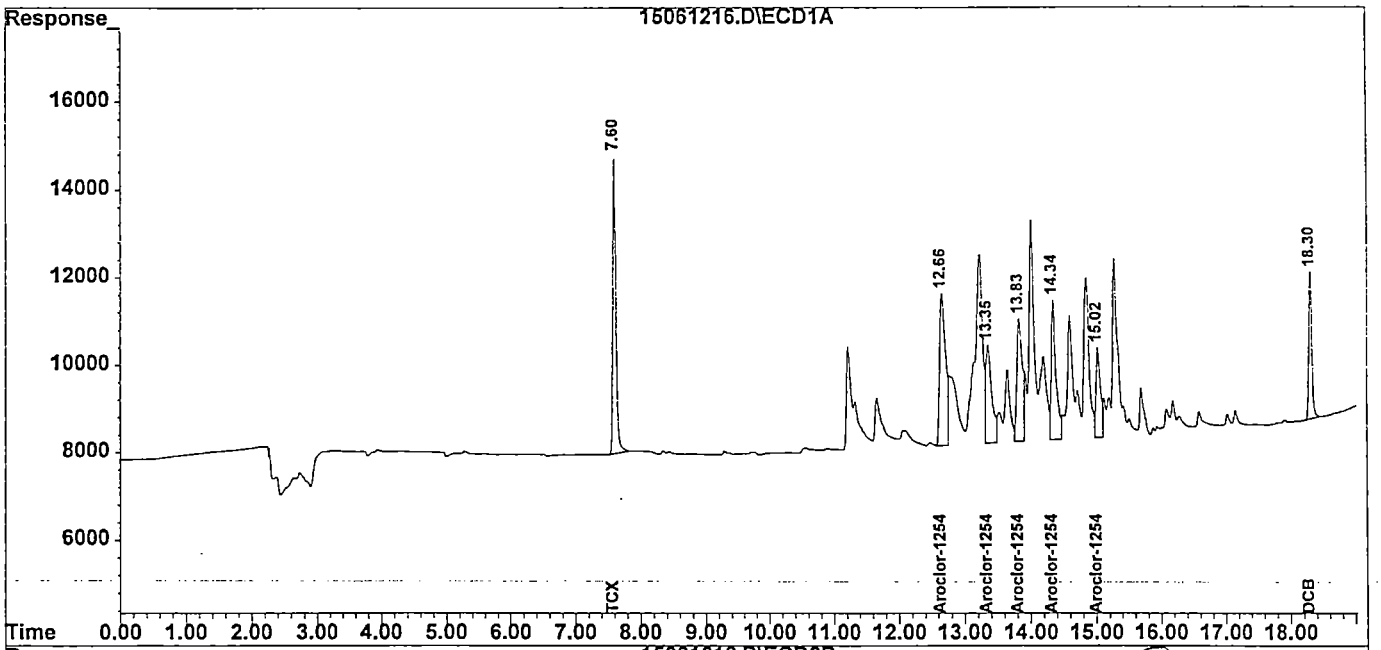
(*)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

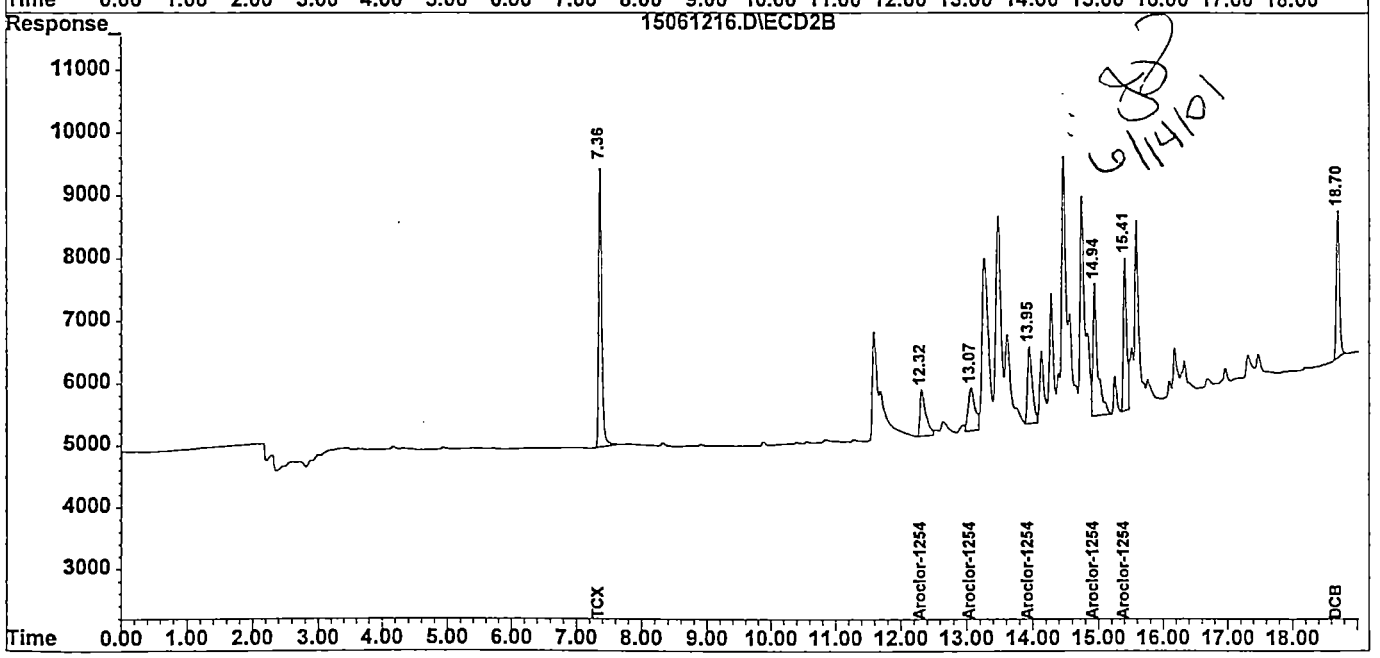
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061216.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061216.D\ECD2B.CH
Acq On : 12 Jun 2001 18:15 Operator: DDC
Sample : AR1254L25B Inst : HP_15
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:28 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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

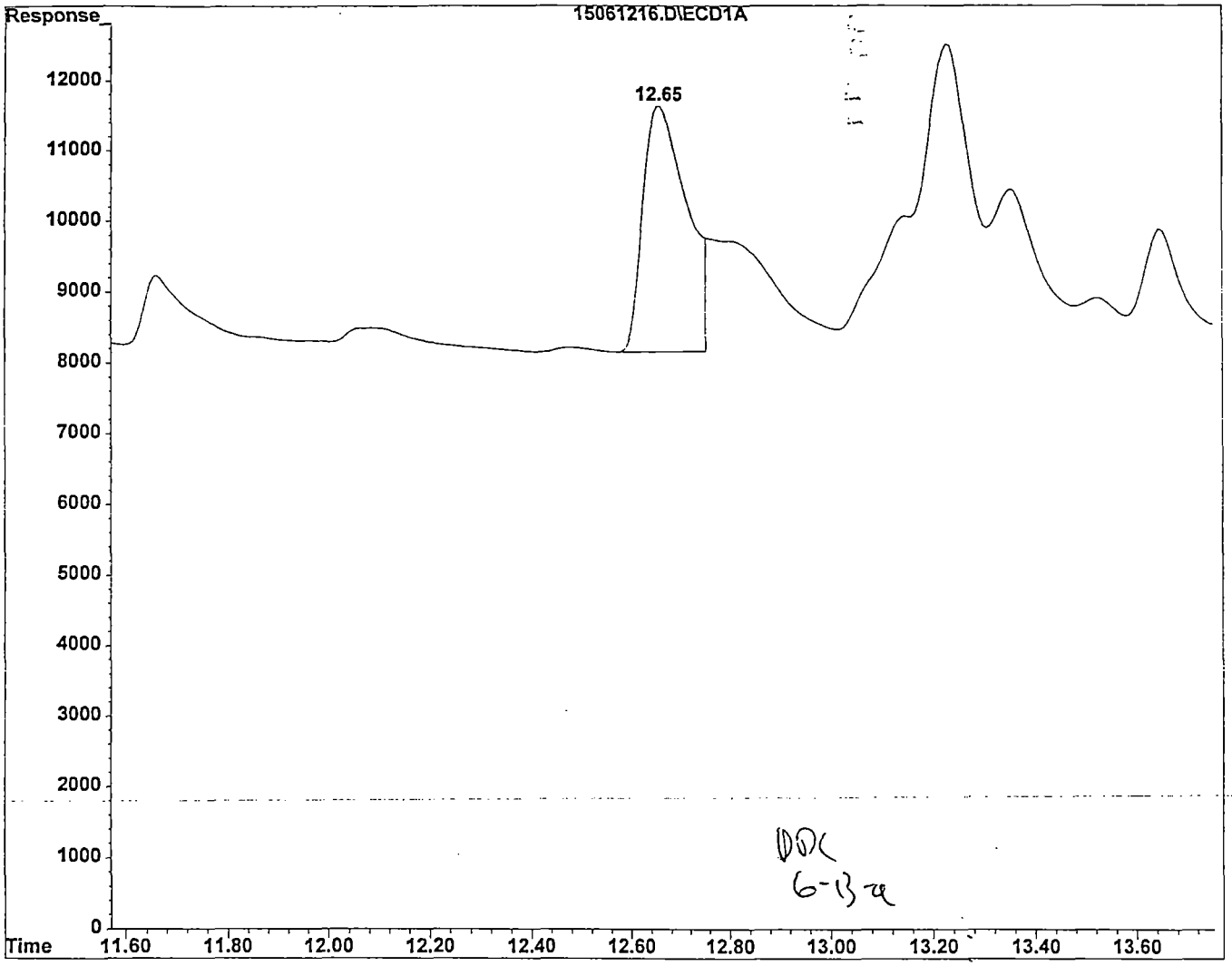




6/14/01

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_12_01\15061216.D
Date Acquired: 12 Jun 2001 18:15
Inst: HP_15 Operator ID: DDC
Name: AR1254L25B
Misc: 5-5-7
Method: F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title: PCB/TOXAPHENE
Quant Time: Jun 13 9:28 2001 Quant Results File: XPCBF12.RES



Aroclor-1254 12.65min area: 219924 m

Integration Time Range: 12.57 - 12.75

F:\HPCHEM\HP\15\DATA\06_12_01\15061216.D
Report generated: Wed Jun 13 09:29:02 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061217.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061217.D\ECD2B.CH
Acq On : 12 Jun 2001 18:38 Operator: DDC
Sample : AR1254L35B Inst : HP_15
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:27 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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	7.60	7.36	447104	316002	19.3	20.0	
22)	S DCB	18.31	18.70	238350	169447	20.3	20.2	
	Target Compounds:							
12)	L6 Aroclor-1254	12.66	12.32	493621	97319	353.0	360.7	
13)	L6 Aroclor-1254 {2}	13.36	13.07	296769	105177	451.2	306.9	#
14)	L6 Aroclor-1254 {3}	13.82	13.96	403795	136275	472.9	384.4	
15)	L6 Aroclor-1254 {4}	14.34	14.95	314135	221499	419.5	398.8	
	L6 Aroclor-1254 {5}	15.02	15.41	180881	178038	350.4	334.8	
	Sum Aroclor-1254			1689201	738308	2047.0	1785.6	
	Average Aroclor-1254					409.398	357.117	

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E00B9
Signature S Jackett
Date 6/14/01

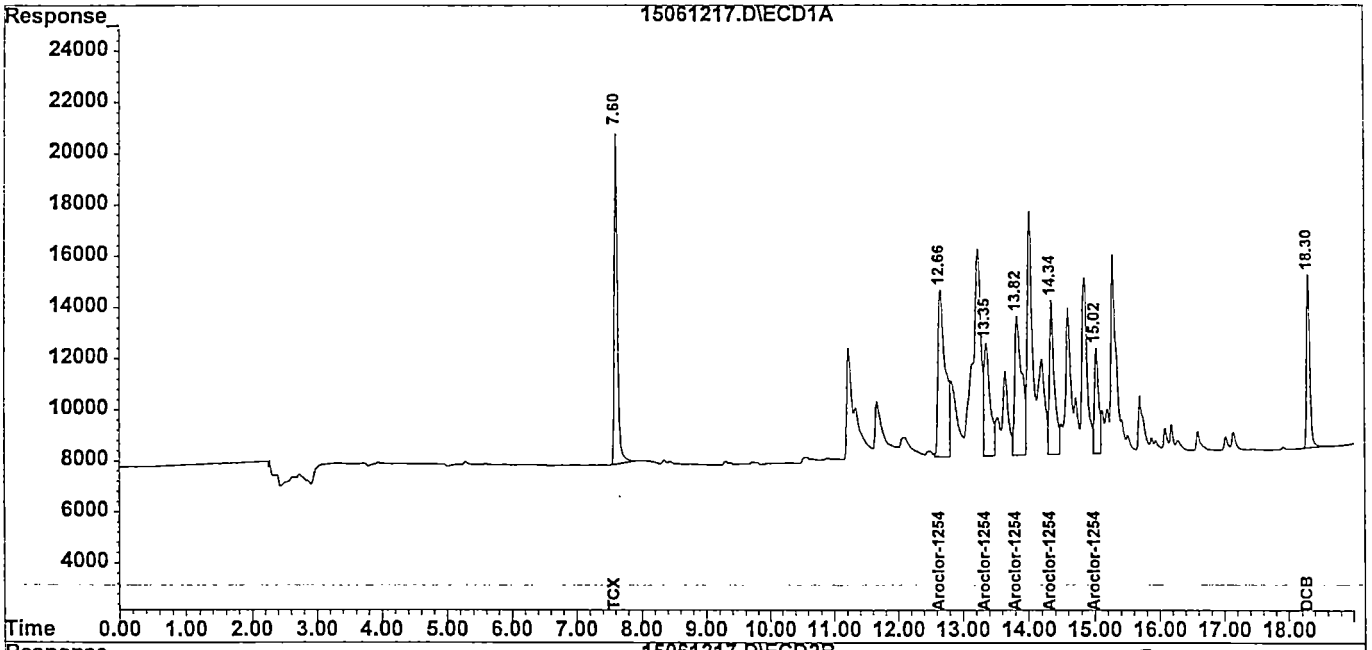
(*)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

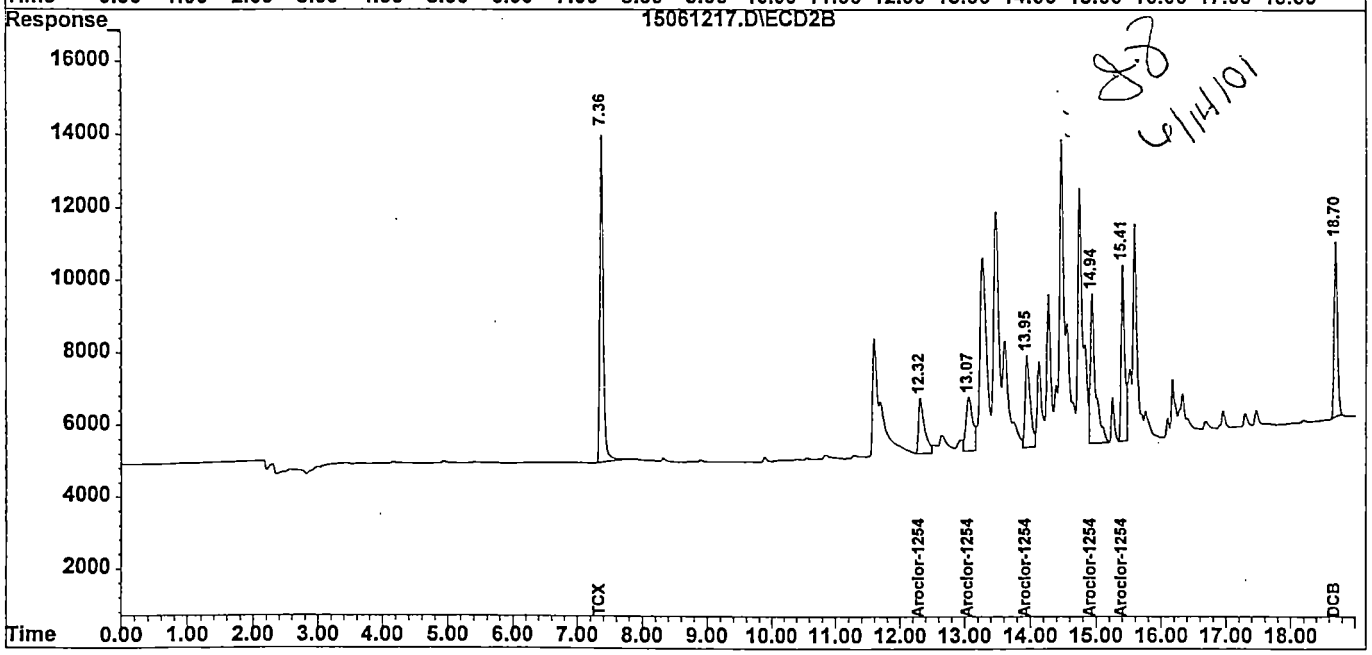
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061217.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061217.D\ECD2B.CH
Acq On : 12 Jun 2001 18:38 Operator: DDC
Sample : AR1254L35B Inst : HP_15
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:27 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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





6/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061218.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061218.D\ECD2B.CH
Acq On : 12 Jun 2001 19:01 Operator: DDC
Sample : AR1254L45B Inst : HP_15
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:27 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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	7.60	7.36	921818	666886	40.2	41.8
22)	S DCB	18.31	18.70	479352	365354	40.6	42.7
	Target Compounds:						
12)	L6 Aroclor-1254	12.66	12.32	983890	222738	697.3	867.4
13)	L6 Aroclor-1254 {2}	13.35	13.06	613959	275940	914.0	881.4
14)	L6 Aroclor-1254 {3}	13.82	13.96	620841	308980	724.7	905.5
15)	L6 Aroclor-1254 {4}	14.34	14.94	626770	501528	824.3	913.3
	L6 Aroclor-1254 {5}	15.02	15.41	390906	391322	762.4	772.2
	Sum Aroclor-1254			3236366	1700507	3922.7	4339.8
	Average Aroclor-1254					784.530	867.953

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E0089
Signature S Jackett
Date 6/14/01

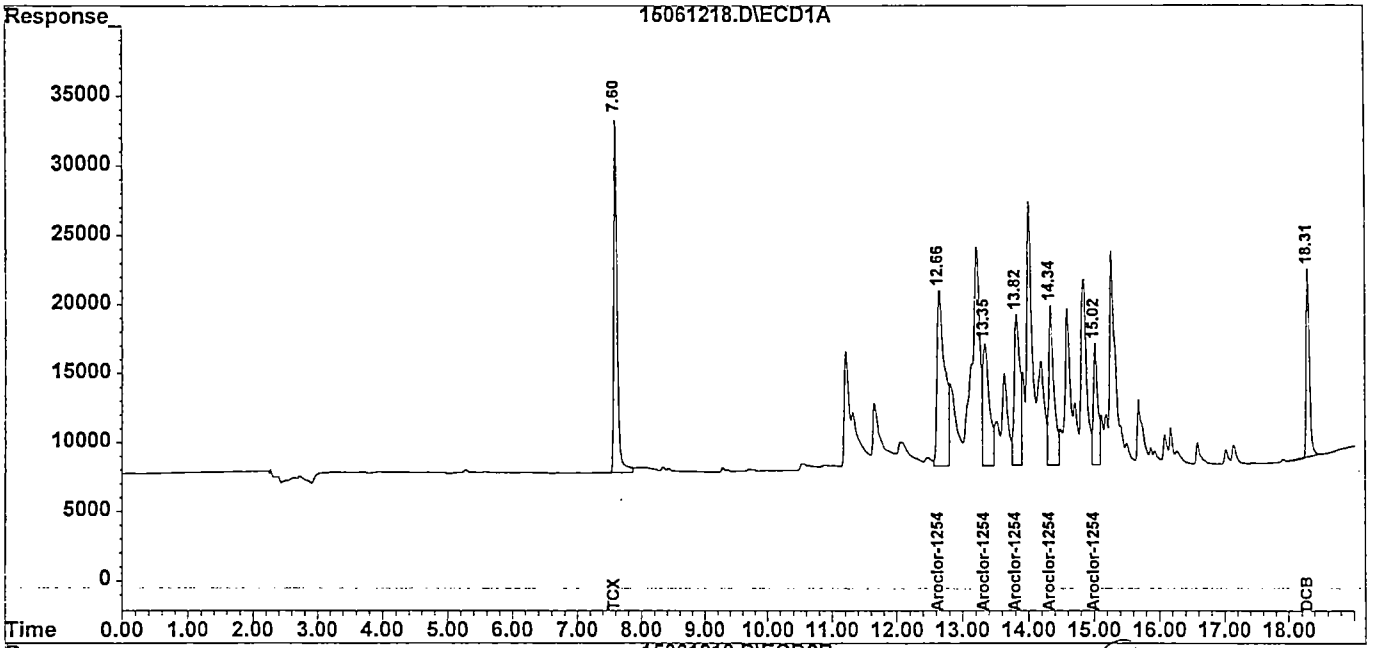
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

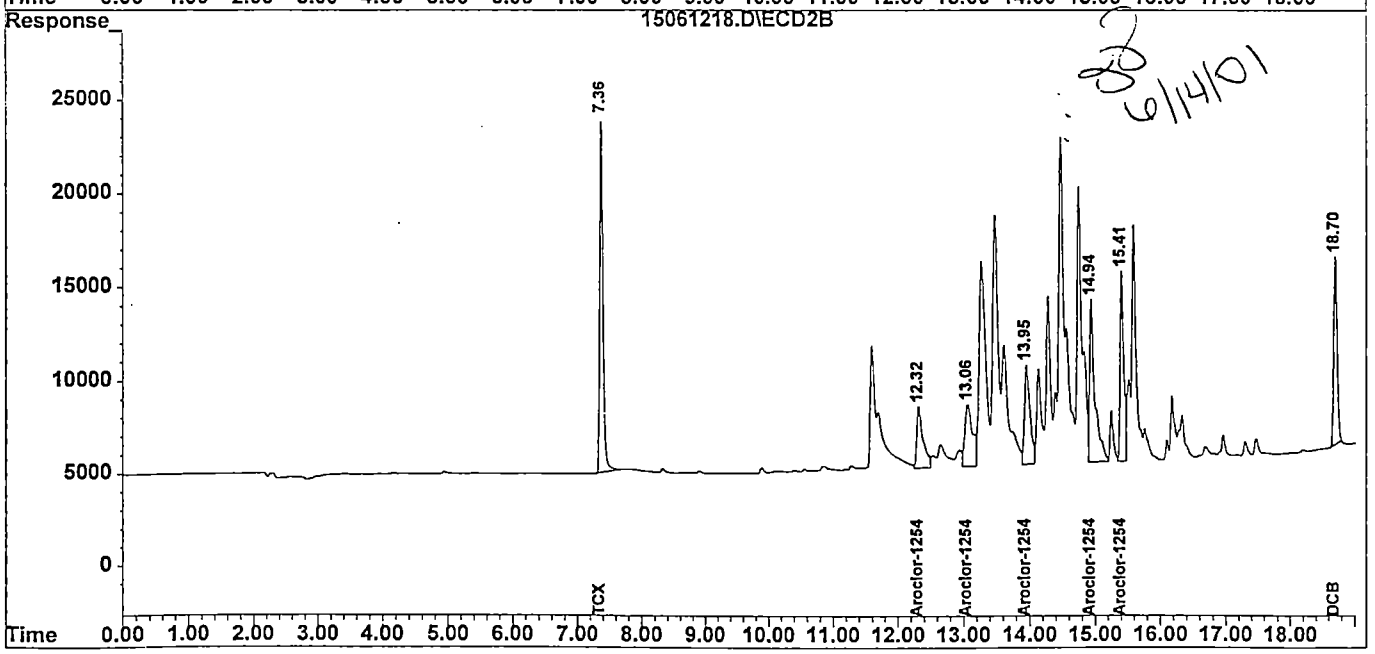
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061218.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061218.D\ECD2B.CH
Acq On : 12 Jun 2001 19:01 Operator: DDC
Sample : AR1254L45B Inst : HP_15
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:27 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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





6/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061219.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061219.D\ECD2B.CH
Acq On : 12 Jun 2001 19:24 Operator: DDC
Sample : AR1254L55B Inst : HP_15
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:27 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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	7.60	7.37	1750970	1390416	77.0	86.7
22)	S DCB	18.31	18.70	1027982	758787	87.2 E	87.1 E
	Target Compounds:						
12)	L6 Aroclor-1254	12.66	12.32	1864601	455804	1302.7 E	1809.5 #
13)	L6 Aroclor-1254 {2}	13.35	13.06	1198422	494942	1717.3 E	1655.2
14)	L6 Aroclor-1254 {3}	13.82	13.95	1190611	620024	1453.9	1822.5 E#
15)	L6 Aroclor-1254 {4}	14.34	14.94	1200310	1062792	1538.1 E	1897.2 E
1	L6 Aroclor-1254 {5}	15.02	15.41	800191	836702	1557.7 E	1708.9
	Sum Aroclor-1254			6254134	3470262	7569.7	8893.4
	Average Aroclor-1254					1513.944	1778.684

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG 20089
Signature S. Jackett
Date 6/14/01

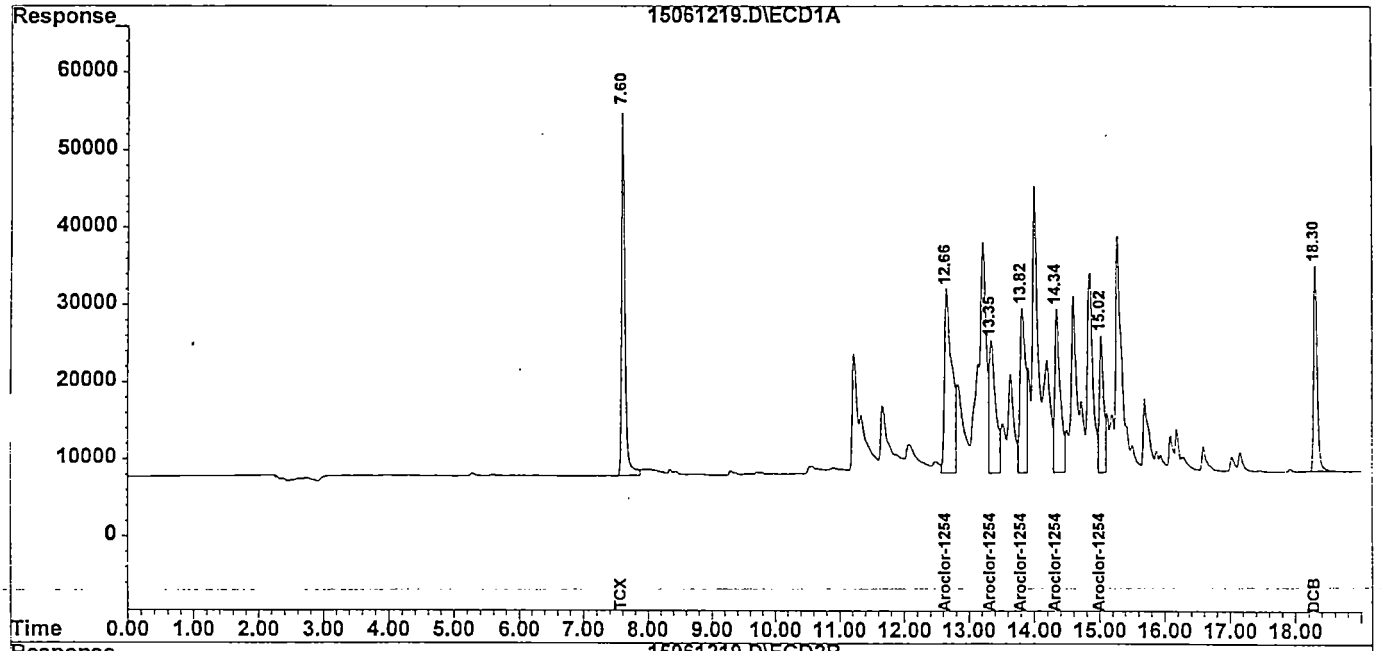
(F)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

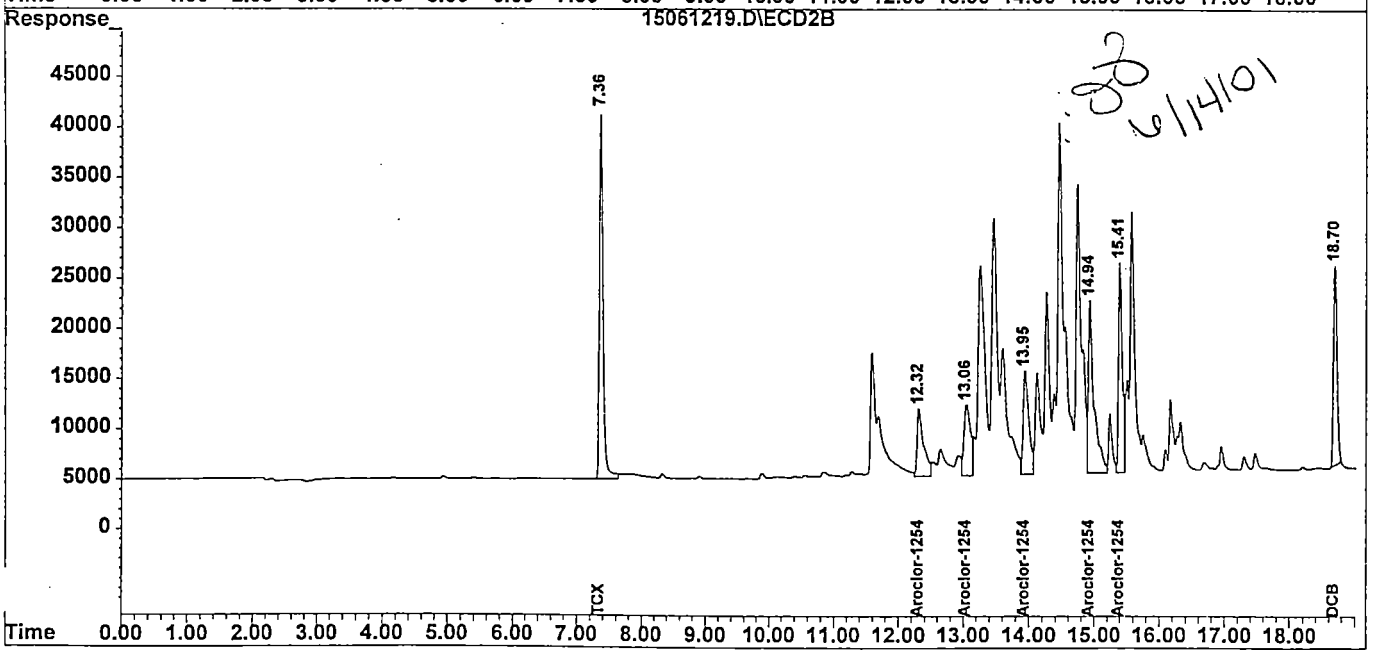
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061219.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061219.D\ECD2B.CH
Acq On : 12 Jun 2001 19:24 Operator: DDC
Sample : AR1254L55B Inst : HP_15
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:27 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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





6/14/01

Response Factor Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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

Calibration Files
L1 =15061220.D L2 =15061221.D L3 =15061222.D
L4 =15061223.D L5 =15061224.D

	Compound	L1	L2	L3	L4	L5	Avg	%RSD
1)	TCX	23.6	23.4	27.0	21.4	19.9	23.1 E3	11.60
2)	Aroclor-1016	579.3	601.8	659.6	505.9	455.4	560.4	14.37
3)	Aroclor-1016 {2}	749.6	700.3	747.5	557.6	483.7	647.8	18.61
4)	Aroclor-1016 {3}	705.3	680.3	817.3	648.6	622.4	694.8	10.85
5)	Aroclor-1016 {4}	567.0	561.7	658.7	499.1	439.9	545.3	15.02
6)	Aroclor-1016 {5}	503.9	512.7	638.0	482.7	439.4	515.3	14.39
17)	Aroclor-1260	1.6	1.6	1.9	1.5	1.3	1.6 E3	13.75
18)	Aroclor-1260 {2}	1.5	1.5	1.9	1.5	1.5	1.6 E3	12.13
19)	Aroclor-1260 {3}	1.3	1.4	1.8	1.4	1.4	1.4 E3	12.39
20)	Aroclor-1260 {4}	980.0	1099.0	1230.1	1110.4	944.2	1072.7	10.63
21)	Aroclor-1260 {5}	1.6	1.4	1.9	1.5	1.6	1.6 E3	11.63
22)	DCB	11.4	12.1	16.9	14.1	14.3	13.8 E3	15.66

Signal #2 Calibration Files
L1 =15061220.D L2 =15061221.D L3 =15061222.D
L4 =15061223.D L5 =15061224.D

	Compound	L1	L2	L3	L4	L5	Avg	%RSD
,	TCX #2	16.6	16.8	20.3	16.7	17.1	17.5 E3	9.09
25)	Aroclor-1016 #2	381.8	368.5	443.0	414.5	487.9	419.1	11.48
26)	Aroclor-1016 {2} #2	1.1	1.1	1.2	0.9	0.9	1.0 E3	13.22
27)	Aroclor-1016 {3} #2	1.3	1.3	1.7	1.4	1.4	1.4 E3	10.69
28)	Aroclor-1016 {4} #2	319.7	322.2	411.8	341.6	355.9	350.2	10.71
29)	Aroclor-1016 {5} #2	379.5	394.9	493.8	398.8	394.8	412.4	11.18
40)	Aroclor-1260 #2	502.1	535.6	687.8	568.0	577.5	574.2	12.21
41)	Aroclor-1260 {2} #2	1.2	1.3	1.6	1.3	1.2	1.3 E3	11.60
42)	Aroclor-1260 {3} #2	1.0	1.1	1.5	1.2	1.2	1.2 E3	13.66
43)	Aroclor-1260 {4} #2	631.8	629.5	821.0	676.5	693.3	690.4	11.32
44)	Aroclor-1260 {5} #2	1.2	1.2	1.6	1.4	1.5	1.4 E3	14.14
45)	DCB #2	8.1	8.8	12.6	10.6	11.0	10.2 E3	17.79

(#) = Out of Range

XPCBF12.M Wed Jun 13 09:40:04 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061220.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061220.D\ECD2B.CH
Acq On : 12 Jun 2001 19:48 Operator: DDC
Sample : AR1660L15B Inst : HP_15
isc : 5-31-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:38 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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	7.60	7.36	117939	82993	5.112	4.743
22)	S DCB	18.30	18.70	56831	40566	4.121	3.964
	Target Compounds:						
2)	L1 Aroclor-1016	8.43	8.90	57932	38181	103.4	91.1
3)	L1 Aroclor-1016 {2}	9.29	9.88	74963	109187	115.6	106.1
4)	L1 Aroclor-1016 {3}	10.59	10.86	70534	129238	100.1	91.9
5)	L1 Aroclor-1016 {4}	11.22	11.19	56699	31967	99.4	91.3
	L1 Aroclor-1016 {5}	11.66	12.32	50390	37952	92.0	92.0
	Sum Aroclor-1016			310518	346525	510.4	472.4
	Average Aroclor-1016					102.088	94.490
17)	L7 Aroclor-1260	14.35	14.46	155995	50213	96.0	87.4
18)	L7 Aroclor-1260 {2}	14.84	14.75	146779	121929	91.5	92.9
19)	L7 Aroclor-1260 {3}	15.28	14.95	130817	103290	88.8	85.7
20)	L7 Aroclor-1260 {4}	15.74	16.11	97999	63180	89.6	91.5
21)	L7 Aroclor-1260 {5}	16.18	16.34	157995	117703	95.2	86.1
	Sum Aroclor-1260			689586	456316	461.0	443.6
	Average Aroclor-1260					92.206	88.724

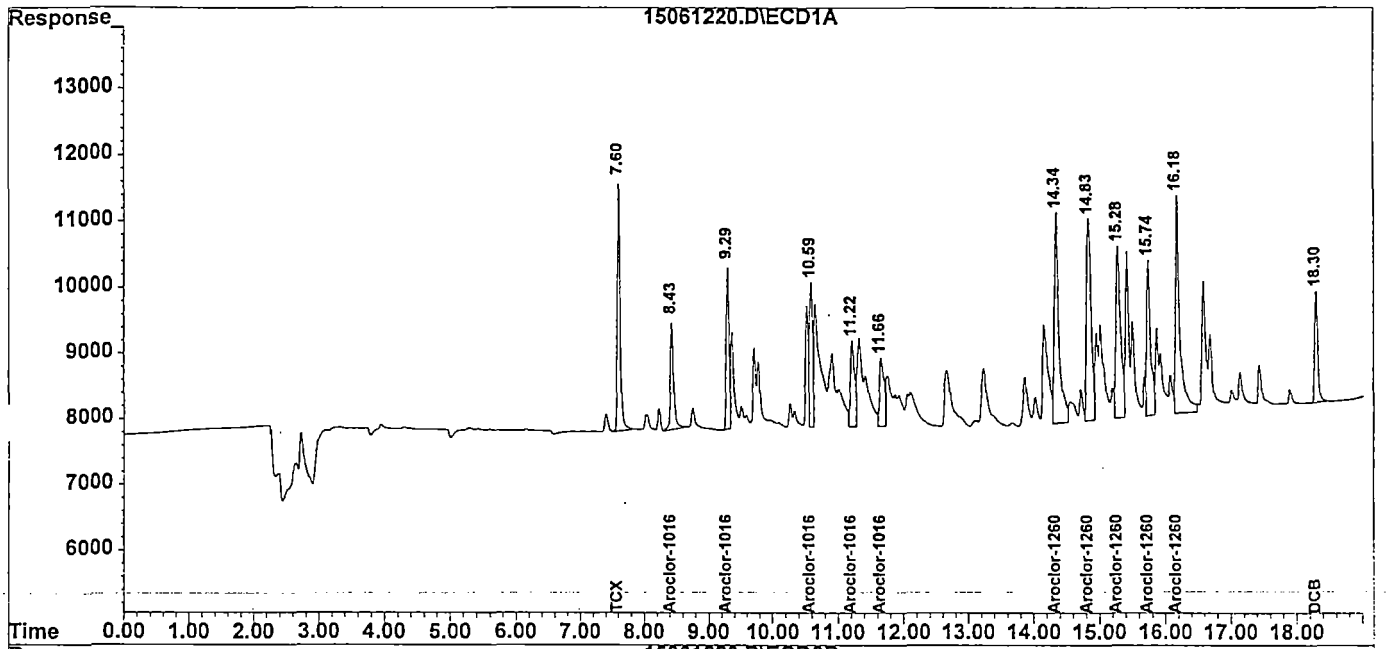
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E0039
Signature S. Jackett
Date 6/14/01

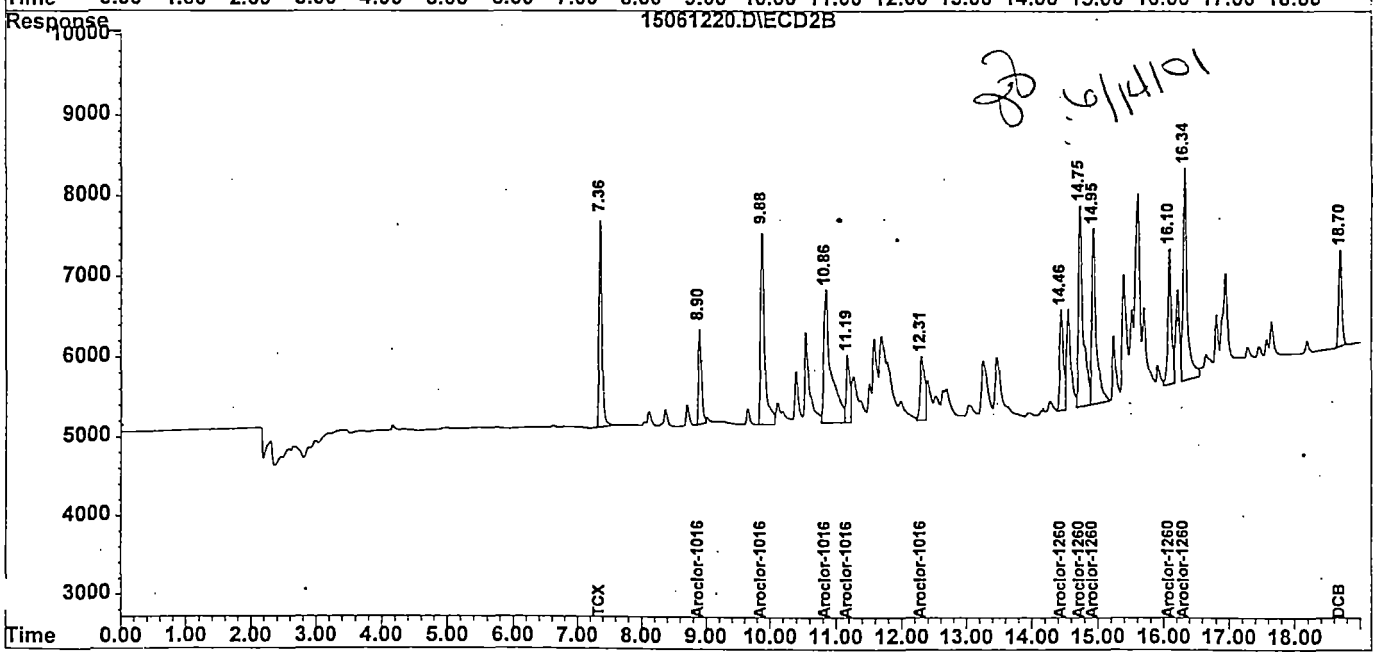
.)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
15061220.D XPCBF12.M Wed Jun 13 09:39:01 2001 Page 1

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061220.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061220.D\ECD2B.CH
Acq On : 12 Jun 2001 19:48 Operator: DDC
Sample : AR1660L15B Inst : HP_15
Misc : 5-31-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:38 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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





6/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061221.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061221.D\ECD2B.CH
Acq On : 12 Jun 2001 20:11 Operator: DDC
Sample : AR1660L25B Inst : HP_15
Misc : 5-30-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:39 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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	7.60	7.36	234041	168078	10.1	9.605
22)	S DCB	18.30	18.70	121470	87620	8.809	8.562
	Target Compounds:						
2)	L1 Aroclor-1016	8.43	8.90	120368	73707	214.8	175.8
3)	L1 Aroclor-1016 {2}	9.29	9.88	140065	214107	216.0	208.1
4)	L1 Aroclor-1016 {3}	10.59	10.86	136060	263513	193.1	187.5
5)	L1 Aroclor-1016 {4}	11.22	11.19	112340	64435	197.0	184.0
[illegible]	L1 Aroclor-1016 {5}	11.66	12.32	102546	78988	187.2	191.6
	Sum Aroclor-1016			611379	694750	1008.0	946.9
	Average Aroclor-1016					201.594	189.382
17)	L7 Aroclor-1260	14.35	14.46	318863	107113	196.3	186.5
18)	L7 Aroclor-1260 {2}	14.84	14.75	307462	254020	191.7	193.6
19)	L7 Aroclor-1260 {3}	15.28	14.95	271784	219212	184.4	181.8
20)	L7 Aroclor-1260 {4}	15.74	16.11	219803	125898	200.9	182.4
21)	L7 Aroclor-1260 {5}	16.18	16.34	288275	237254	173.6	173.5
	Sum Aroclor-1260			1406186	943497	946.9	917.8
	Average Aroclor-1260					189.380	183.557

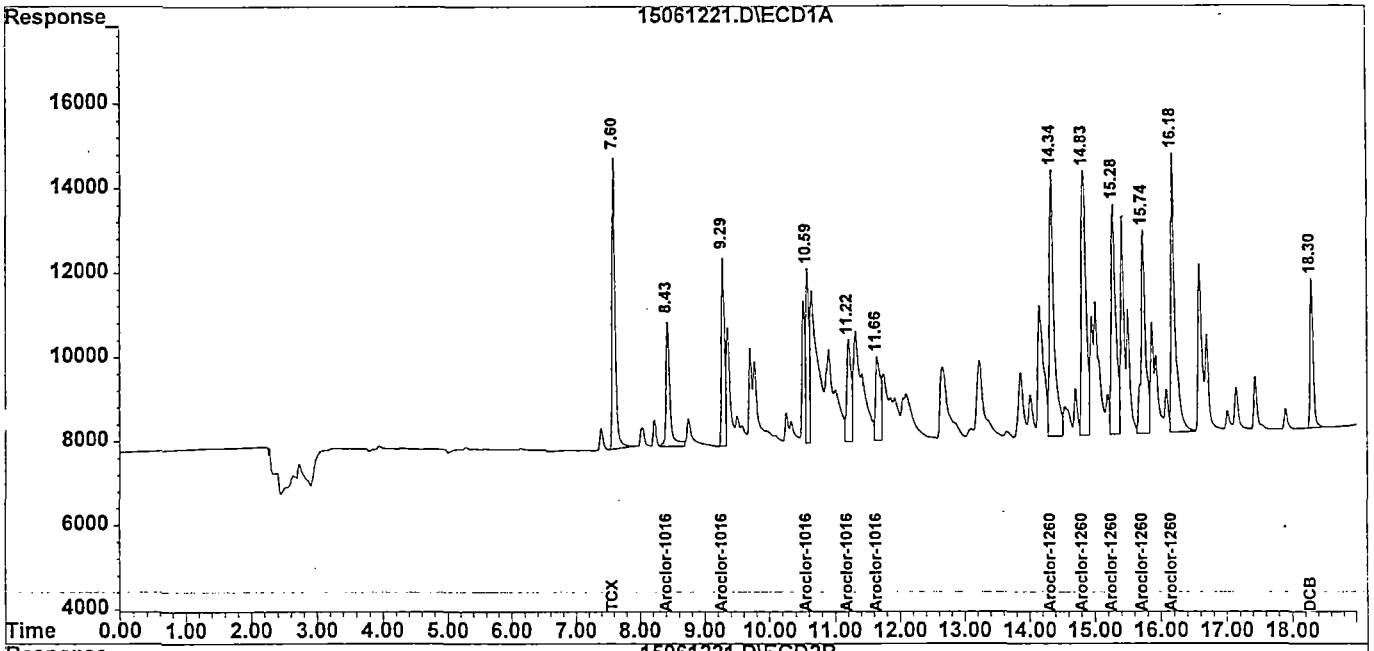
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E0089
Signature S. Jackett
Date 6/14/01

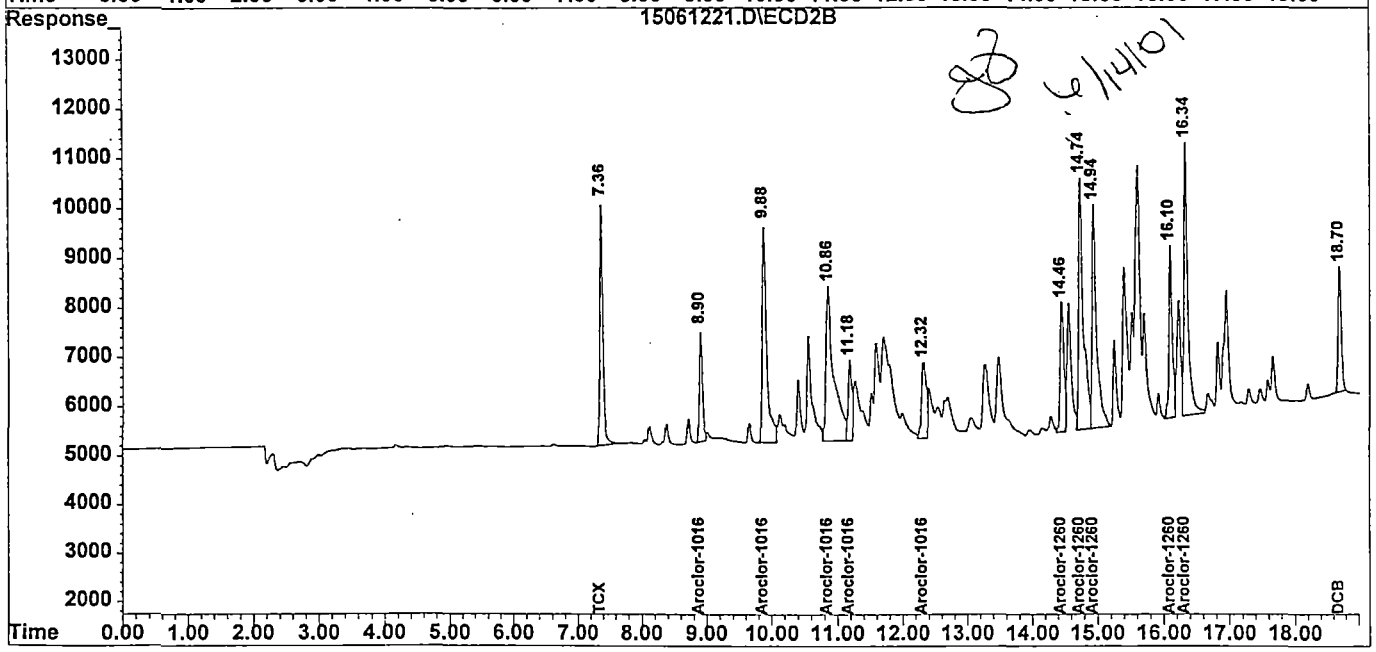
.)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
15061221.D XPCBF12.M Wed Jun 13 09:39:15 2001

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061221.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061221.D\ECD2B.CH
Acq On : 12 Jun 2001 20:11 Operator: DDC
Sample : AR1660L25B Inst : HP_15
Misc : 5-30-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:39 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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





6/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061222.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061222.D\ECD2B.CH
Acq On : 12 Jun 2001 20:34 Operator: DDC
Sample : AR1660L35M Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:39 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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	7.60	7.36	540307	406533	23.4	23.2
22)	S DCB	18.30	18.70	338025	252902	24.5	24.7
	Target Compounds:						
2)	L1 Aroclor-1016	8.43	8.90	263860	177207	470.8	422.8
3)	L1 Aroclor-1016 {2}	9.29	9.88	299019	479387	461.2	465.8
4)	L1 Aroclor-1016 {3}	10.59	10.86	326934	666266	464.3	474.0
5)	L1 Aroclor-1016 {4}	11.22	11.19	263487	164733	463.1	470.3
	1 Aroclor-1016 {5}	11.66	12.32	255186	197522	467.2	479.0
	um Aroclor-1016			1408486	1685116	2326.6	2312.0
	Average Aroclor-1016					465.329	462.397
17)	L7 Aroclor-1260	14.34	14.46	767145	275127	472.3	479.2
18)	L7 Aroclor-1260 {2}	14.83	14.74	764944	632515	476.8	482.2
19)	L7 Aroclor-1260 {3}	15.28	14.94	704352	585096	477.9	485.2
20)	L7 Aroclor-1260 {4}	15.74	16.10	492027	328412	449.7	475.7
21)	L7 Aroclor-1260 {5}	16.18	16.34	775646	652003	467.2	476.7
	Sum Aroclor-1260			3504114	2473153	2343.9	2398.9
	Average Aroclor-1260					468.783	479.779

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E00B9
Signature S. Jackett
Date 6/14/01

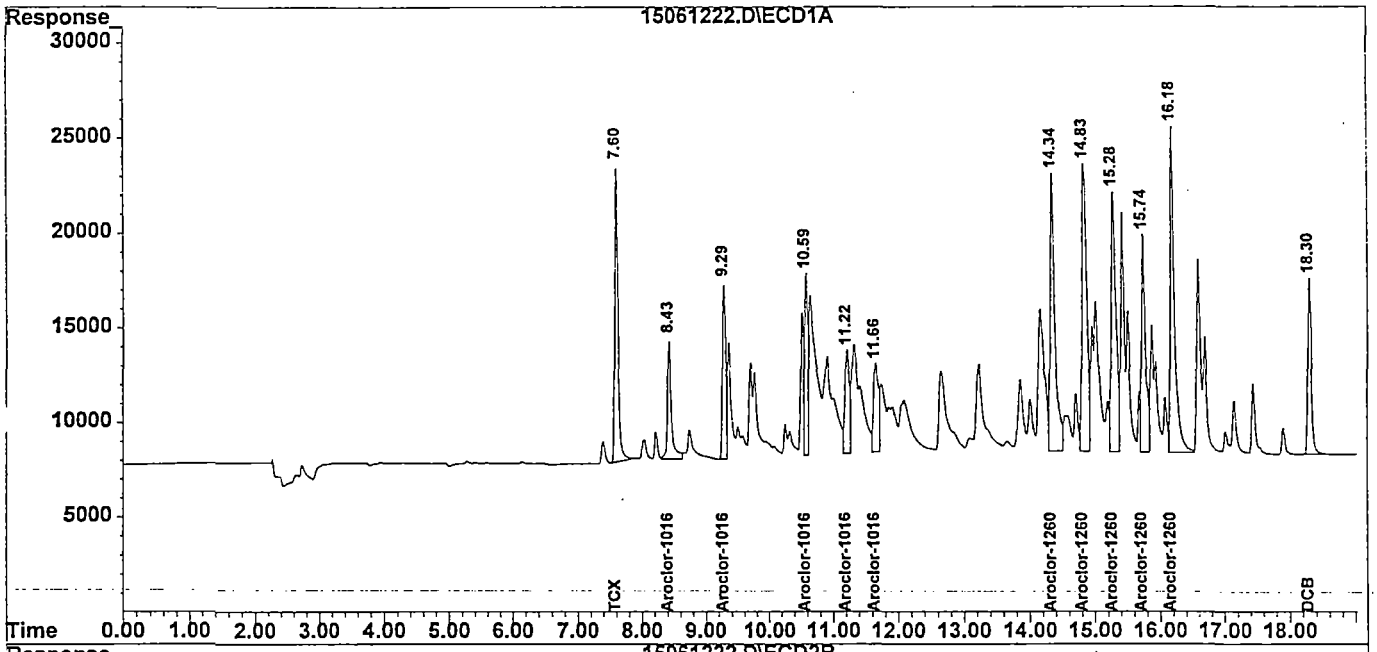
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

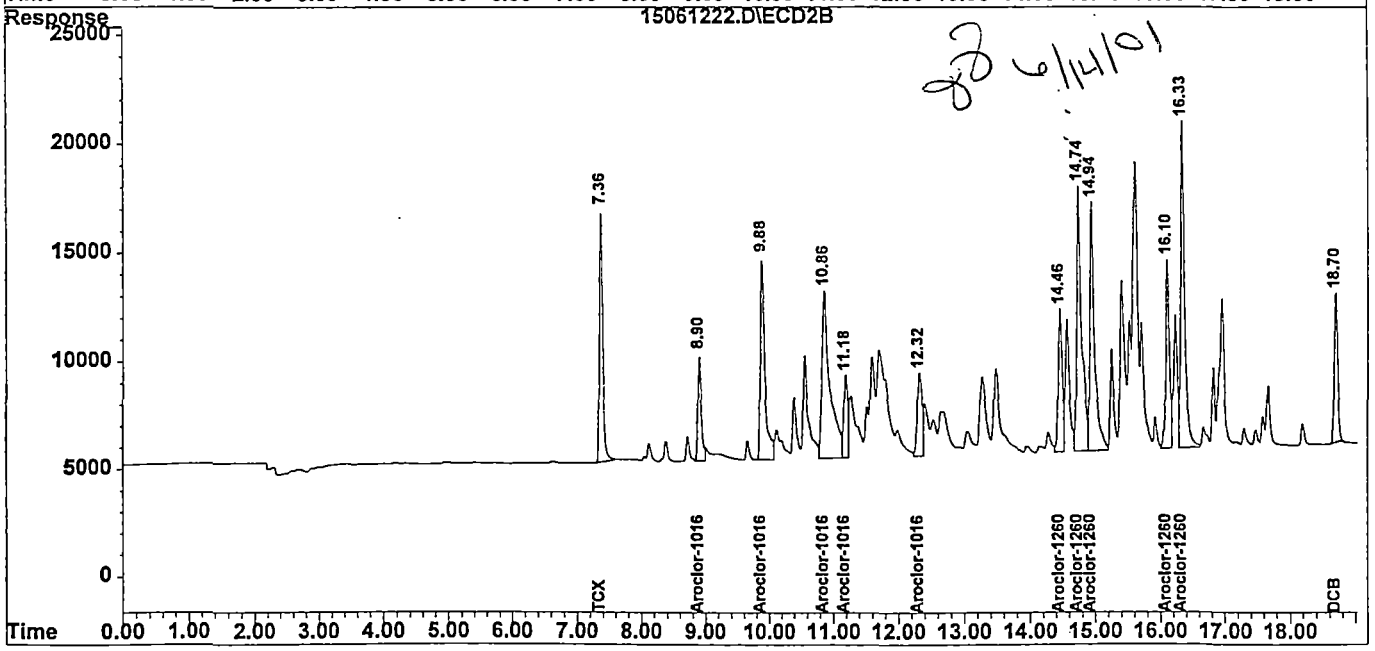
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061222.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061222.D\ECD2B.CH
Acq On : 12 Jun 2001 20:34 Operator: DDC
Sample : AR1660L35M Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:39 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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





6/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061223.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061223.D\ECD2B.CH
Acq On : 12 Jun 2001 20:57 Operator: DDC
Sample : AR1660L45B Inst : HP_15
Misc : 5-28-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:39 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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	7.60	7.36	857998	667439	37.2	38.1
22)	S DCB	18.30	18.70	565246	424620	41.0	41.5
	Target Compounds:						
2)	L1 Aroclor-1016	8.43	8.90	404744	331619	722.2	791.2
3)	L1 Aroclor-1016 {2}	9.28	9.88	446059	740158	688.2	719.3
4)	L1 Aroclor-1016 {3}	10.59	10.86	518915	1090183	740.7	775.6
5)	L1 Aroclor-1016 {4}	11.22	11.19	399278	273275	713.1	780.3
	L1 Aroclor-1016 {5}	11.66	12.32	386174	319013	722.8	773.6
	Sum Aroclor-1016			2155171	2754250	3587.1	3839.9
	Average Aroclor-1016					717.412	767.983
17)	L7 Aroclor-1260	14.34	14.46	1171269	454385	729.7	791.3
18)	L7 Aroclor-1260 {2}	14.83	14.74	1202031	1008833	754.5	769.0
19)	L7 Aroclor-1260 {3}	15.28	14.94	1127685	966202	770.3	801.2
20)	L7 Aroclor-1260 {4}	15.74	16.10	888303	541165	817.4	783.8
21)	L7 Aroclor-1260 {5}	16.18	16.33	1232549	1095848	749.4	801.3
	Sum Aroclor-1260			5621837	4066433	3821.2	3946.7
	Average Aroclor-1260					764.245	789.331

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29234 SDG E00B9
Signature S. Jackett
Date 6/14/01

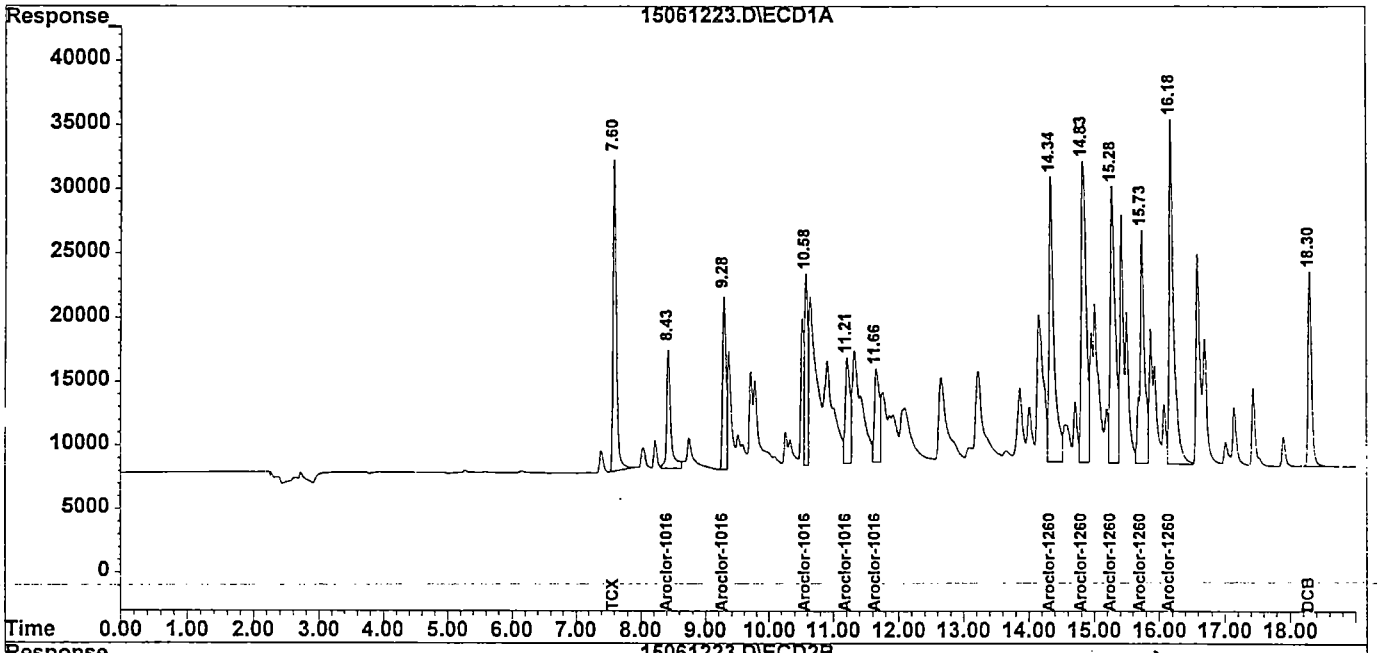
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

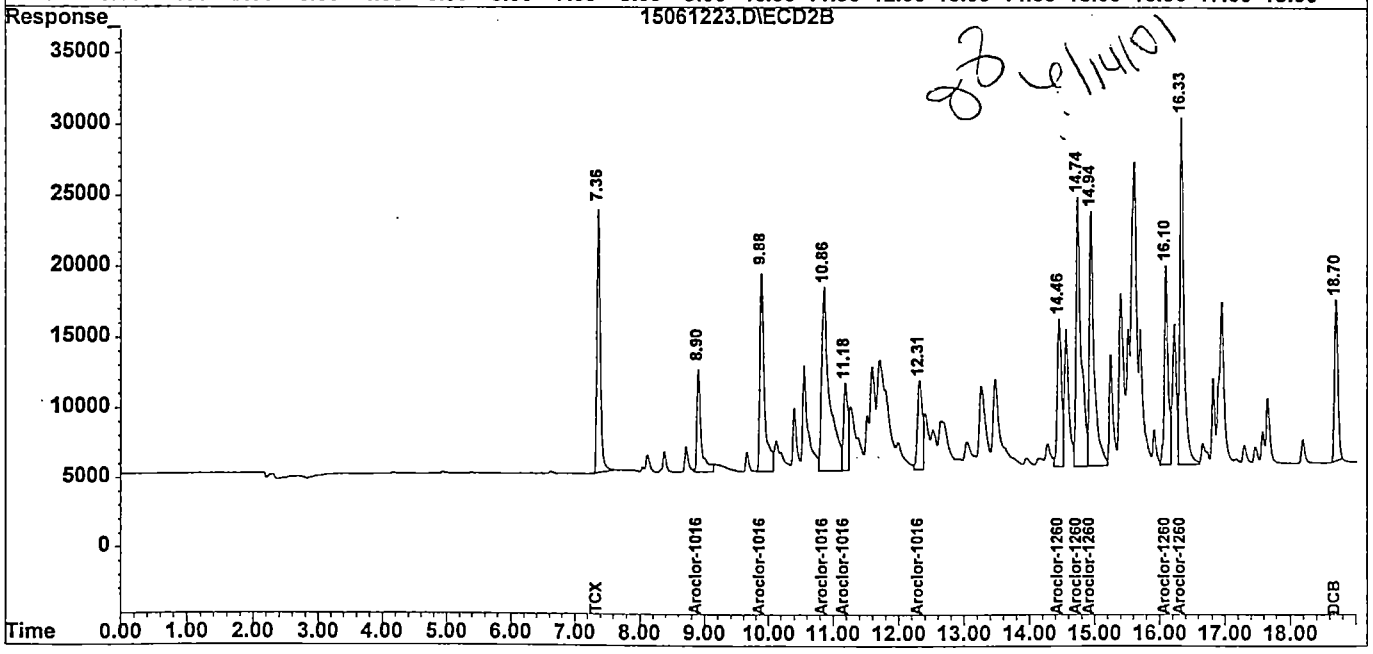
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061223.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061223.D\ECD2B.CH
Acq On : 12 Jun 2001 20:57 Operator: DDC
Sample : AR1660L45B Inst : HP_15
Misc : 5-28-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:39 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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





8 6/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061224.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061224.D\ECD2B.CH
Acq On : 12 Jun 2001 21:21 Operator: DDC
Sample : AR1660L55B Inst : HP_15
Misc : 5-27-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:39 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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	7.60	7.36	1591518	1366402	69.0	78.1	E
22)	S DCB	18.30	18.70	1140842	882539	82.9	86.2	E
	Target Compounds:							
2)	L1 Aroclor-1016	8.43	8.90	728575	780575	1300.1	1862.3	E#
3)	L1 Aroclor-1016 {2}	9.28	9.88	773962	1374768	1194.5	1335.9	
4)	L1 Aroclor-1016 {3}	10.58	10.86	995777	2223285	1427.4	1581.8	
5)	L1 Aroclor-1016 {4}	11.22	11.18	703828	569496	1274.3	1626.0	E#
	L1 Aroclor-1016 {5}	11.66	12.32	703048	631649	1340.6	1531.8	E
	Sum Aroclor-1016			3905189	5579774	6536.8	7937.8	
	Average Aroclor-1016					1307.368	1587.556	
17)	L7 Aroclor-1260	14.34	14.46	2138174	923988	1345.4	1609.2	
18)	L7 Aroclor-1260 {2}	14.83	14.74	2330114	1964108	1471.1	1497.2	
19)	L7 Aroclor-1260 {3}	15.28	14.94	2247384	1968252	1543.5	1632.2	E
20)	L7 Aroclor-1260 {4}	15.74	16.10	1510744	1109296	1401.0	1606.7	
21)	L7 Aroclor-1260 {5}	16.18	16.33	2561942	2360160	1569.5	1725.7	
	Sum Aroclor-1260			10788359	8325804	7330.5	8071.0	
	Average Aroclor-1260					1466.094	1614.190	

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E00B9
Signature S. Jackett
Date 6/14/01

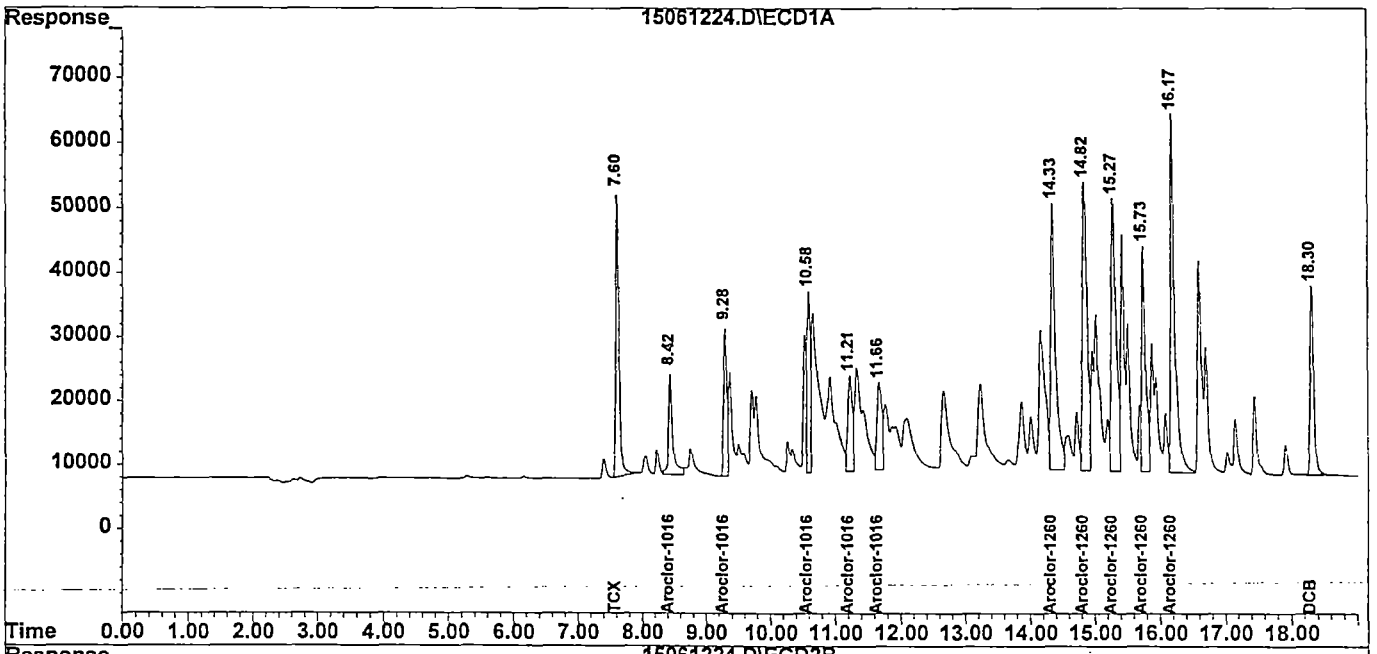
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

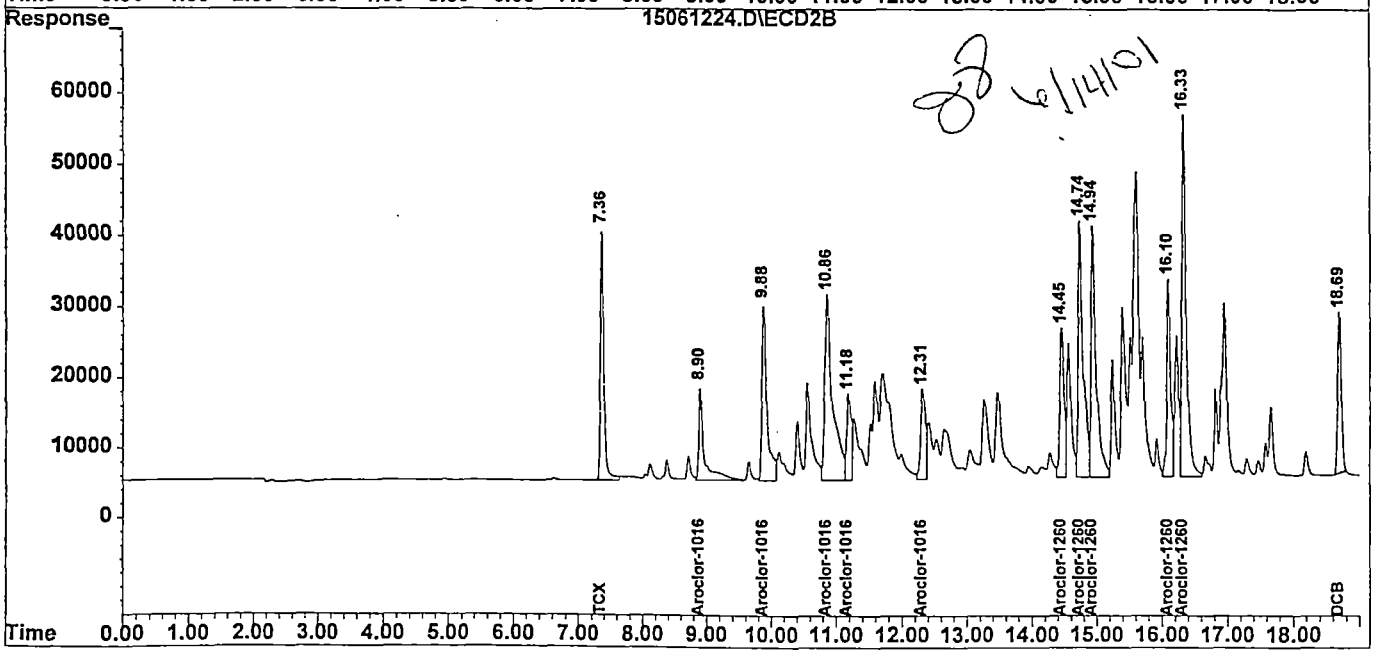
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061224.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061224.D\ECD2B.CH
Acq On : 12 Jun 2001 21:21 Operator: DDC
Sample : AR1660L55B Inst : HP_15
Misc : 5-27-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:39 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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





Continuing Calibration Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 14 08:29:27 2001
Response via : Initial Calibration

Continuing Calibration File: 15061277.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	23.070	23.825	E3	-3.3	88
2	L1	Aroclor-1016	560.419	621.223		-10.8	94
3	L1	Aroclor-1016 {2}	647.760	641.876		0.9	86
4	L1	Aroclor-1016 {3}	694.797	680.998		2.0	83
5	L1	Aroclor-1016 {4}	545.279	583.980		-7.1	89
6	L1	Aroclor-1016 {5}	515.343	538.330		-4.5	84
17	L7	Aroclor-1260	1.575	1.654	E3	-5.1	86
18	L7	Aroclor-1260 {2}	1.575	1.635	E3	-3.8	86
19	L7	Aroclor-1260 {3}	1.448	1.404	E3	3.1	80
20	L7	Aroclor-1260 {4}	1072.733	1110.559		-3.5	90
21	L7	Aroclor-1260 {5}	1.620	1.273	E3	21.5#	66
22	S	DCB	13.761	9.723	E3	29.3#	58

Signal #2
Continuing Calibration File: 15061277.D

		Compound	AvgRF	CCRF		%Dev	Area%	
1	S	TCX	17.500	22.869	E3	-30.7#	113	
2	L1	Aroclor-1016	419.150	444.570		-6.1	100	
3	L1	Aroclor-1016 {2}	1.029	1.250	E3	-21.5#	104	11.9%
4	L1	Aroclor-1016 {3}	1.406	1.639	E3	-16.6#	98	
5	L1	Aroclor-1016 {4}	350.241	352.533		-0.7	86	
6	L1	Aroclor-1016 {5}	412.363	493.080		-19.6#	100	
17	L7	Aroclor-1260	574.197	723.694		-26.0#	105	
18	L7	Aroclor-1260 {2}	1.312	1.562	E3	-19.1#	99	
19	L7	Aroclor-1260 {3}	1.206	1.288	E3	-6.8	88	
20	L7	Aroclor-1260 {4}	690.417	782.855		-13.4	95	13.98%
21	L7	Aroclor-1260 {5}	1.368	1.305	E3	4.6	80	
22	S	DCB	10.234	8.432	E3	17.6#	67	

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

15061277.D XPCBF12.M Thu Jun 14 08:29:33 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061277.D\ECD1A.CH Vial: 77
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061277.D\ECD2B.CH
Acq On : 13 Jun 2001 17:54 Operator: DDC
Sample : AR1660L35R Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 14 8:29 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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	7.61	7.37	476498	457384	20.7	26.1	#
22)	S DCB	18.31	18.70	194451	168647	14.1	16.5	
	Target Compounds:							
2)	L1 Aroclor-1016	8.44	8.91	248489	177828	443.4	424.3	
3)	L1 Aroclor-1016 {2}	9.29	9.89	256751	500167	396.4	486.0	
4)	L1 Aroclor-1016 {3}	10.60	10.87	272399	655551	392.1	466.4	
5)	1 Aroclor-1016 {4}	11.23	11.19	233592	141013	428.4 DPC 6-14-01	402.6	DPC 6-14-01
6)	L1 Aroclor-1016 {5}	11.67	12.33	215332	197232	417.8m	478.3m	
	Sum Aroclor-1016			1226563	1671792	2078.1	2257.6	
	Average Aroclor-1016					415.610	451.522	
17)	L7 Aroclor-1260	14.35	14.47	661740	289478	420.3	504.1	
18)	L7 Aroclor-1260 {2}	14.84	14.75	654091	624713	415.2	476.2	
19)	L7 Aroclor-1260 {3}	15.29	14.95	561491	515378	387.7	427.4	
20)	L7 Aroclor-1260 {4}	15.74	16.11	444224	313142	414.1	453.6	
21)	L7 Aroclor-1260 {5}	16.19	16.34	509049	521910	314.1	381.6	
	Sum Aroclor-1260			2830595	2264621	1951.4	2242.9	
	Average Aroclor-1260					390.281	448.578	

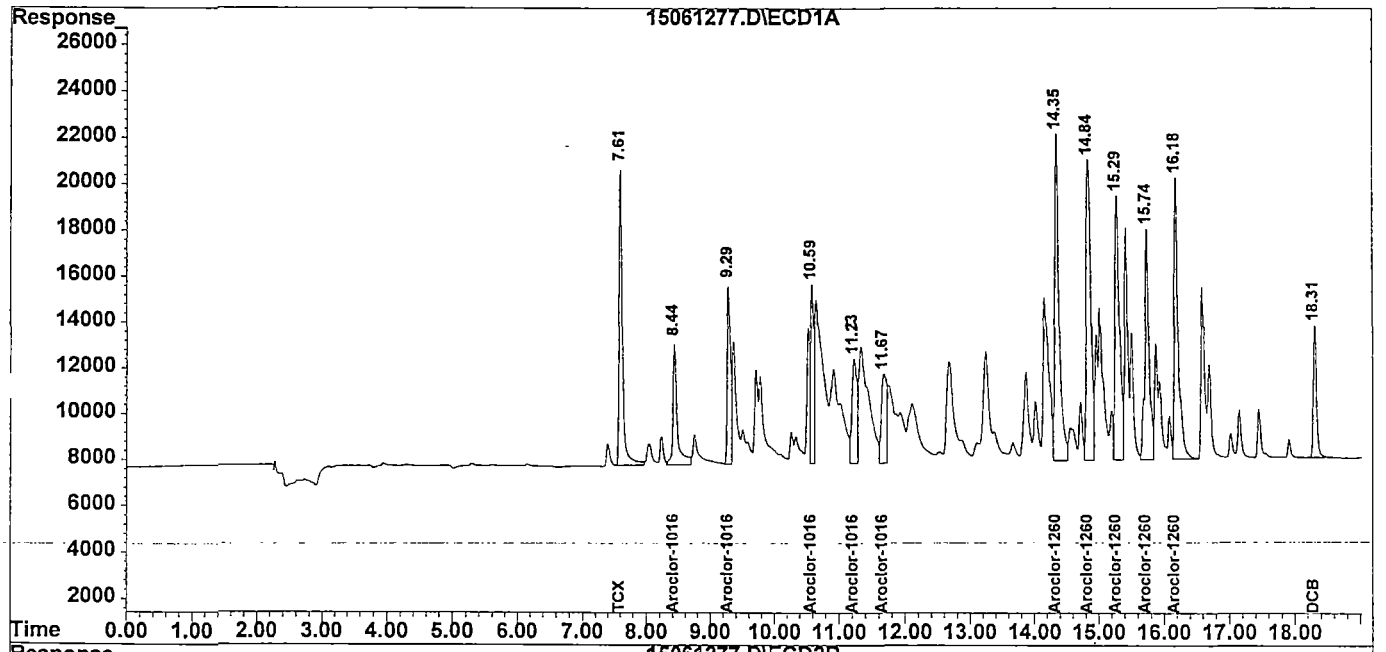
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

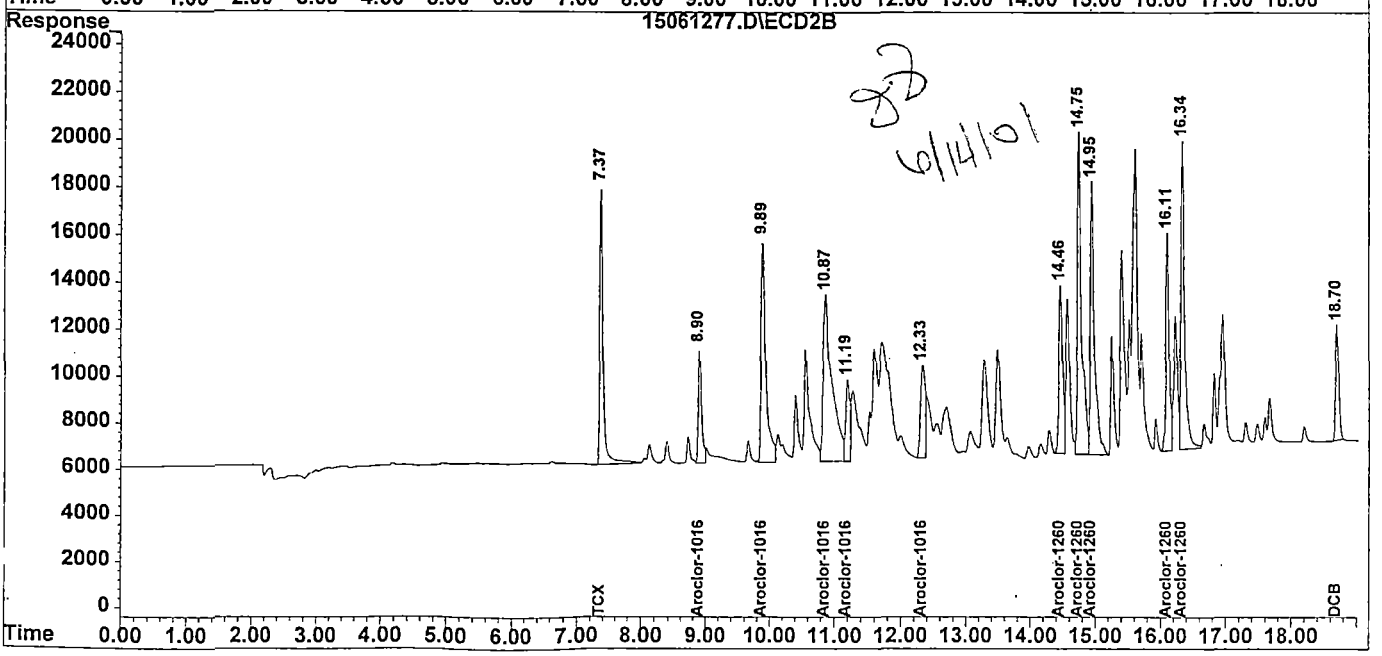
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061277.D\ECD1A.CH Vial: 77
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061277.D\ECD2B.CH
Acq On : 13 Jun 2001 17:54 Operator: DDC
Sample : AR1660L35R Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 14 8:29 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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

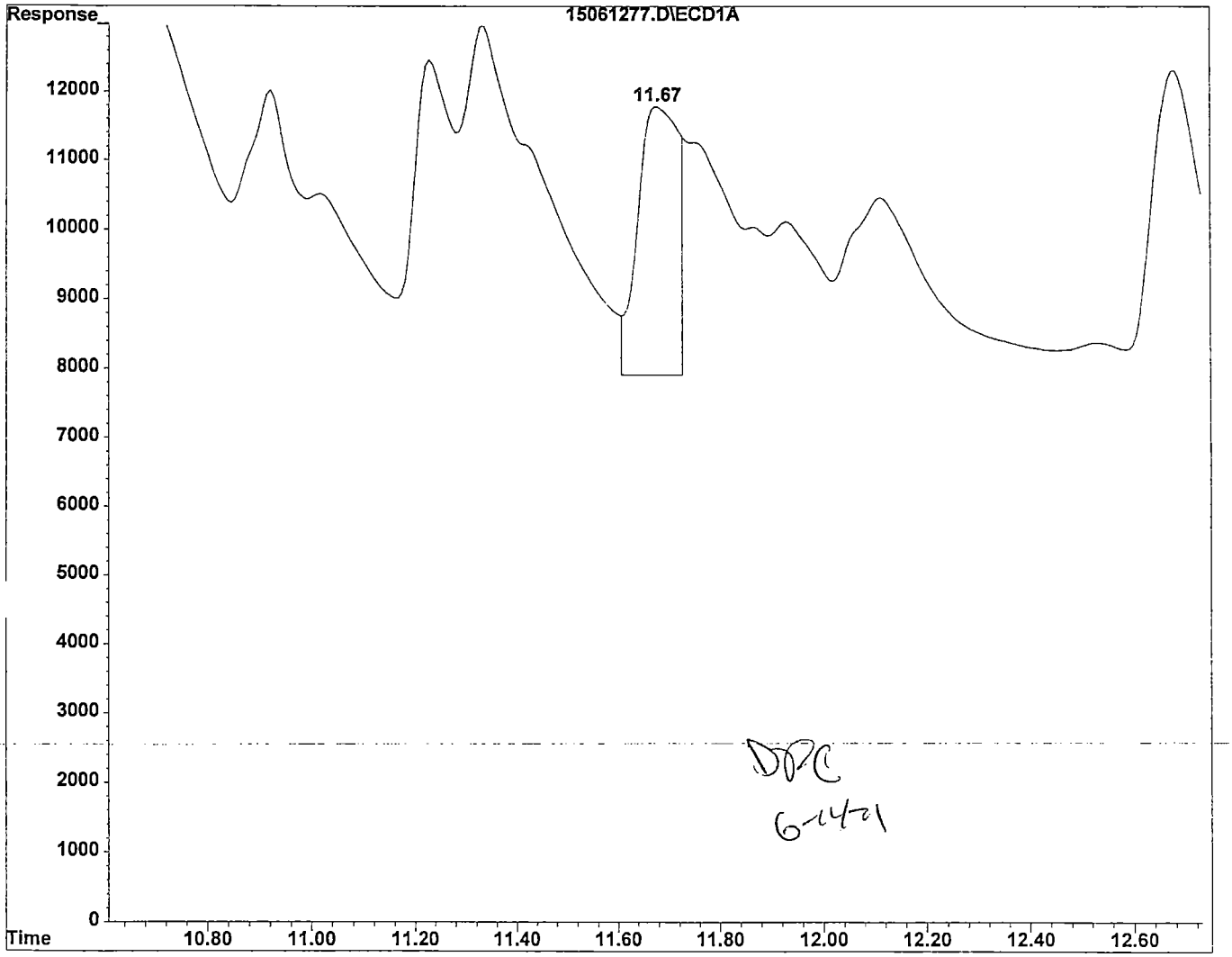




6/14/01

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_12_01\15061277.D
Date Acquired: 13 Jun 2001 17:54
Inst: HP_15 Operator ID: DDC
Name: AR1660L35R
Misc: 5-29-7
Method: F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title: PCB/TOXAPHENE
Quant Time: Jun 14 8:29 2001 Quant Results File: XPCBF12.RES



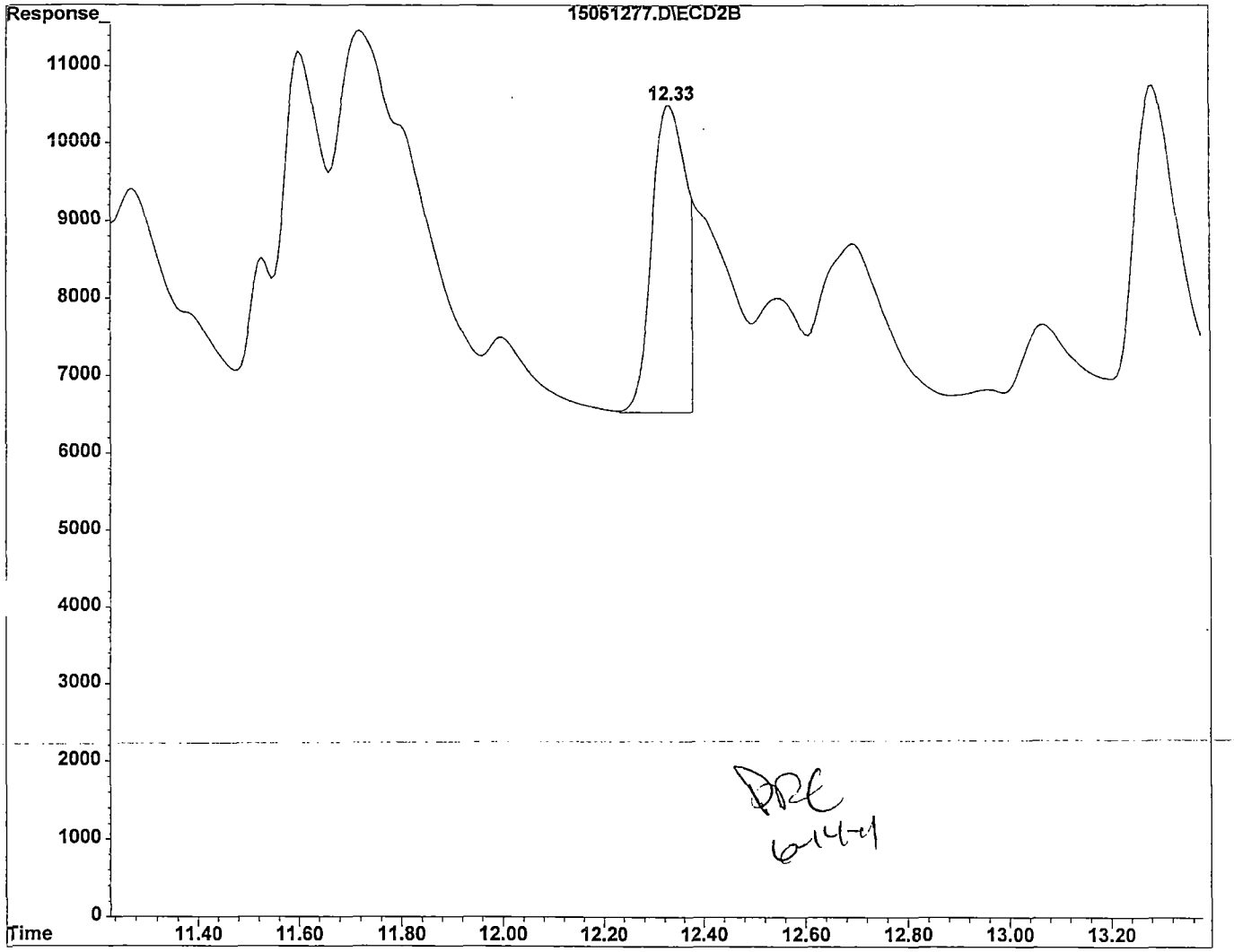
Aroclor-1016 {5} 11.67min area: 215332 m

Integration Time Range: 11.61 - 11.73

F:\HPCHEM\HP\15\DATA\06_12_01\15061277.D
Report generated: Thu Jun 14 09:31:25 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_12_01\15061277.D
Date Acquired: 13 Jun 2001 17:54
Inst: HP_15 Operator ID: DDC
Name: AR1660L35R
Misc: 5-29-7
Method: F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title: PCB/TOXAPHENE
Quant Time: Jun 14 8:29 2001 Quant Results File: XPCBF12.RES



Aroclor-1016 {5} #2 12.33min area: 197232 m

Integration Time Range: 12.23 - 12.38

F:\HPCHEM\HP\15\DATA\06_12_01\15061277.D
Report generated: Thu Jun 14 09:31:26 2001

Continuing Calibration Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 14 08:31:36 2001
Response via : Initial Calibration

Continuing Calibration File: 15061287.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	23.070	23.799	E3	-3.2	88
2	L1	Aroclor-1016	560.419	646.670		-15.4#	98
3	L1	Aroclor-1016 {2}	647.760	637.489		1.6	85
4	L1	Aroclor-1016 {3}	694.797	648.292		6.7	79
5	L1	Aroclor-1016 {4}	545.279	570.867		-4.7	87
6	L1	Aroclor-1016 {5}	515.343	601.415		-16.7#	94
17	L7	Aroclor-1260	1.575	1.709	E3	-8.5	89
18	L7	Aroclor-1260 {2}	1.575	1.621	E3	-2.9	85
19	L7	Aroclor-1260 {3}	1.448	1.385	E3	4.4	79
20	L7	Aroclor-1260 {4}	1072.733	1149.006		-7.1	93
21	L7	Aroclor-1260 {5}	1.620	1.267	E3	21.8#	65
22	S	DCB	13.761	8.738	E3	36.5#	52

Signal #2
Continuing Calibration File: 15061287.D

		Compound	AvgRF	CCRF		%Dev	Area%	
1	S	TCX	17.500	23.217	E3	-32.7#	114	
2	L1	Aroclor-1016	419.150	443.328		-5.8	100	
3	L1	Aroclor-1016 {2}	1.029	1.259	E3	-22.4#	105	13.92%
4	L1	Aroclor-1016 {3}	1.406	1.621	E3	-15.4#	97	
5	L1	Aroclor-1016 {4}	350.241	340.337		2.8	83	
6	L1	Aroclor-1016 {5}	412.363	508.150		-23.2#	103	
17	L7	Aroclor-1260	574.197	715.959		-24.7#	104	
18	L7	Aroclor-1260 {2}	1.312	1.575	E3	-20.1#	100	
19	L7	Aroclor-1260 {3}	1.206	1.276	E3	-5.8	87	
20	L7	Aroclor-1260 {4}	690.417	793.108		-14.9	97	14.86%
21	L7	Aroclor-1260 {5}	1.368	1.248	E3	8.8	77	
22	S	DCB	10.234	7.916	E3	22.6#	63	

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

15061287.D XPCBF12.M Thu Jun 14 08:31:41 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061287.D\ECD1A.CH Vial: 87
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061287.D\ECD2B.CH
Acq On : 13 Jun 2001 21:48 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 14 8:31 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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	7.60	7.36	475981	464346	20.6	26.5	#
22)	S DCB	18.30	18.70	174765	158321	12.7	15.5	
	Target Compounds:							
2)	L1 Aroclor-1016	8.43	8.90	258668	177331	461.6	423.1	
3)	L1 Aroclor-1016 {2}	9.29	9.88	254996	503691	393.7	489.5	
4)	L1 Aroclor-1016 {3}	10.59	10.86	259317	648574	373.2	461.4	
5)	1 Aroclor-1016 {4}	11.22	11.19	228347	136135	418.8	388.7	DDC 6-14-4
6)	L1 Aroclor-1016 {5}	11.67	12.33	240566	203260	466.8	492.9m	
	Sum Aroclor-1016			1241893	1668991	2114.0	2255.6	
	Average Aroclor-1016					422.805	451.115	
17)	L7 Aroclor-1260	14.35	14.46	683595	286384	434.2	498.8	
18)	L7 Aroclor-1260 {2}	14.84	14.75	648210	629955	411.5	480.2	
19)	L7 Aroclor-1260 {3}	15.28	14.94	554080	510386	382.5	423.2	
20)	L7 Aroclor-1260 {4}	15.74	16.10	459602	317243	428.4	459.5	
21)	L7 Aroclor-1260 {5}	16.18	16.34	506742	499103	312.7	364.9	
	Sum Aroclor-1260			2852230	2243071	1969.3	2226.6	
	Average Aroclor-1260					393.869	445.324	

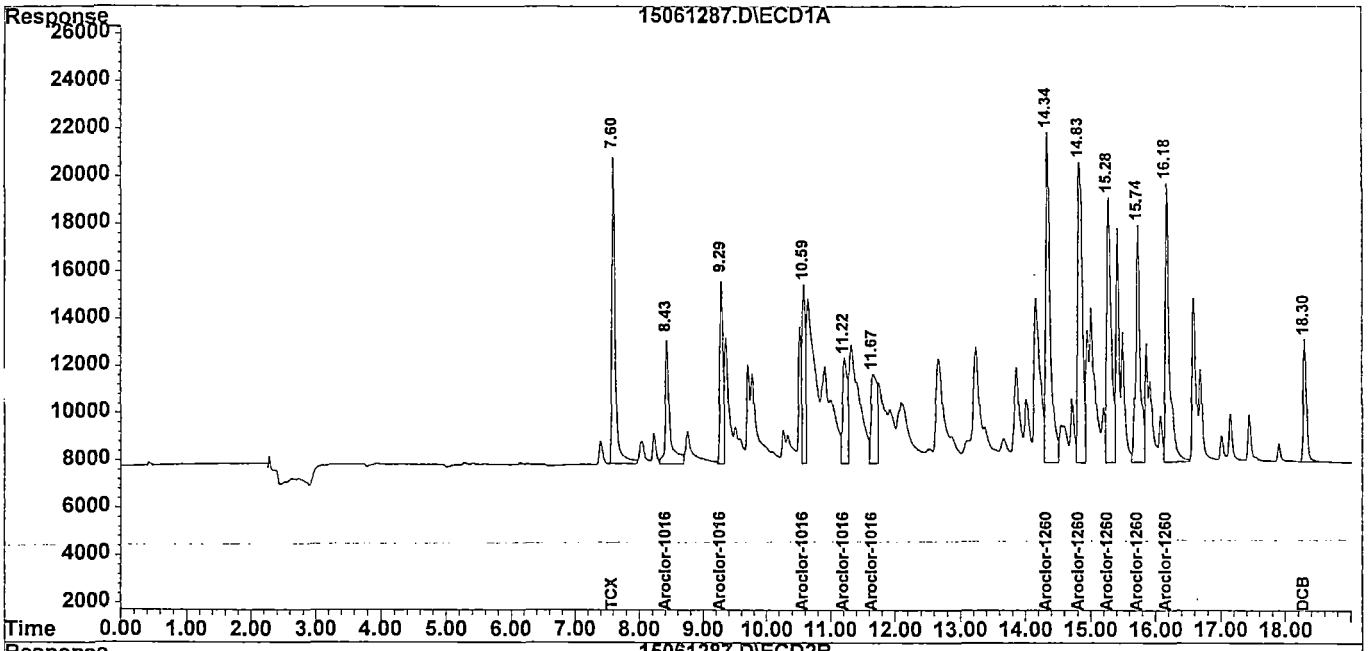
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

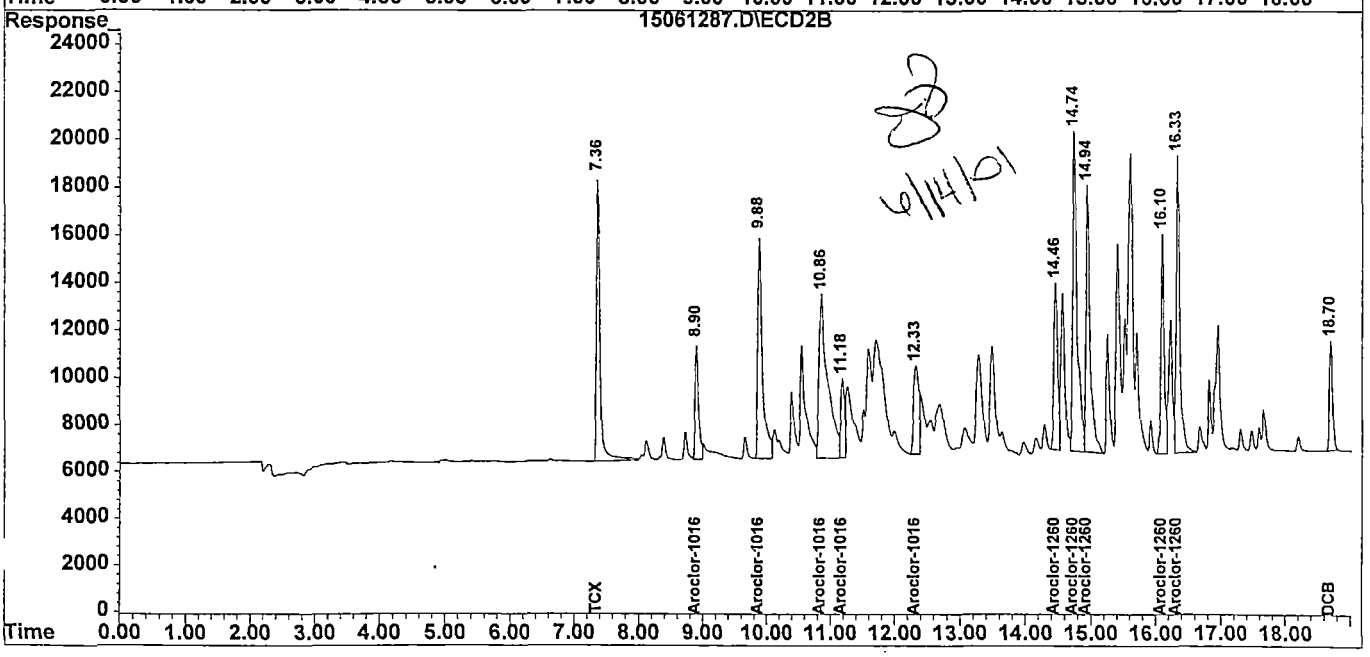
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061287.D\ECD1A.CH Vial: 87
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061287.D\ECD2B.CH
Acq On : 13 Jun 2001 21:48 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 14 8:31 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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



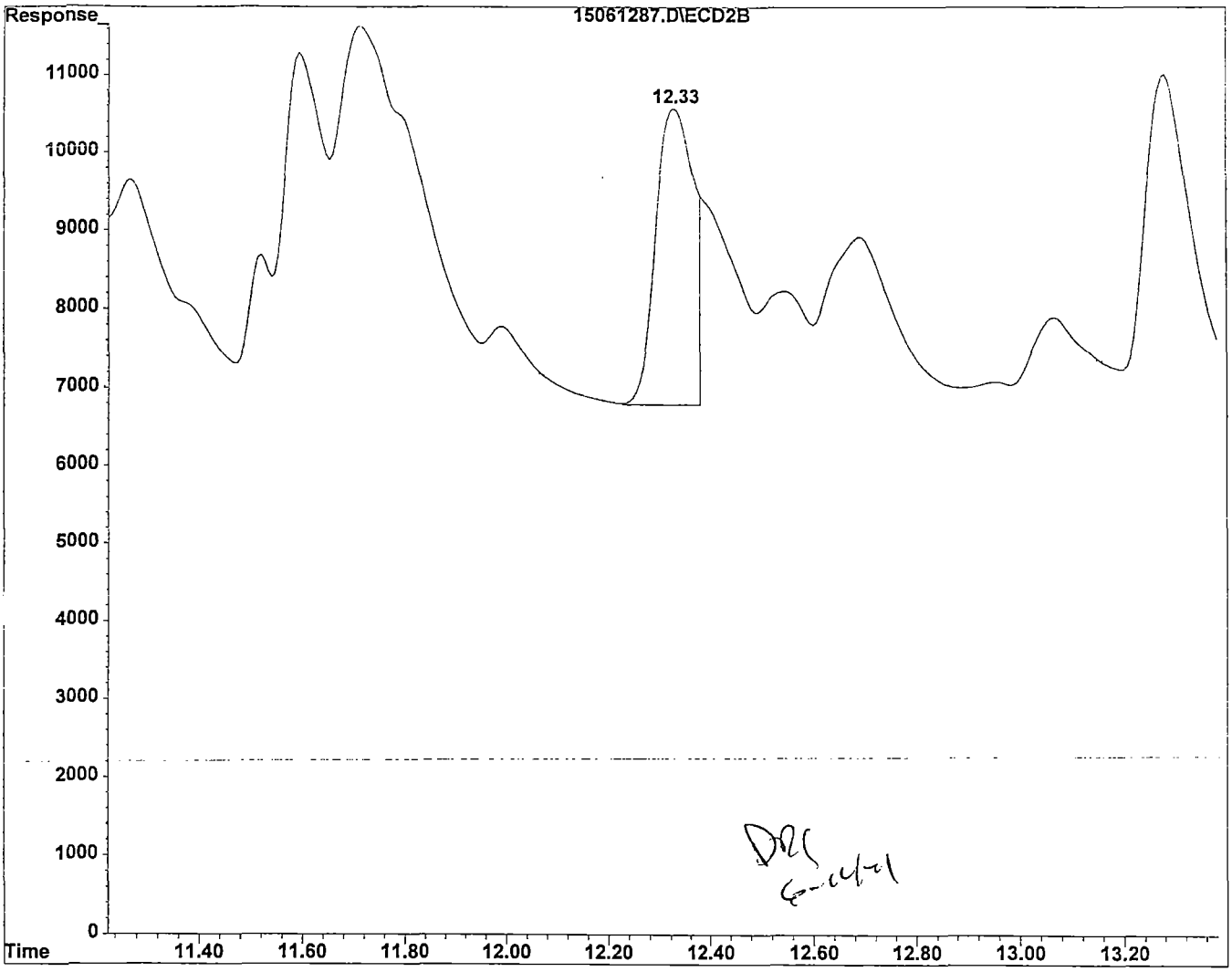


6/14/01

255

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_12_01\15061287.D
Date Acquired: 13 Jun 2001 21:48
Inst: HP_15 Operator ID: DDC
Name: AR1660L35T
Misc: 5-29-7
Method: F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title: PCB/TOXAPHENE
Quant Time: Jun 14 8:31 2001 Quant Results File: XPCBF12.RES



Aroclor-1016 {5} #2 12.33min area: 203260 m

Integration Time Range: 12.23 - 12.38

F:\HPCHEM\HP\15\DATA\06_12_01\15061287.D
Report generated: Thu Jun 14 09:31:27 2001

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:

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CSF 29294 SDG E3055
Signature Imelda M. Williams
Date 06/19/01

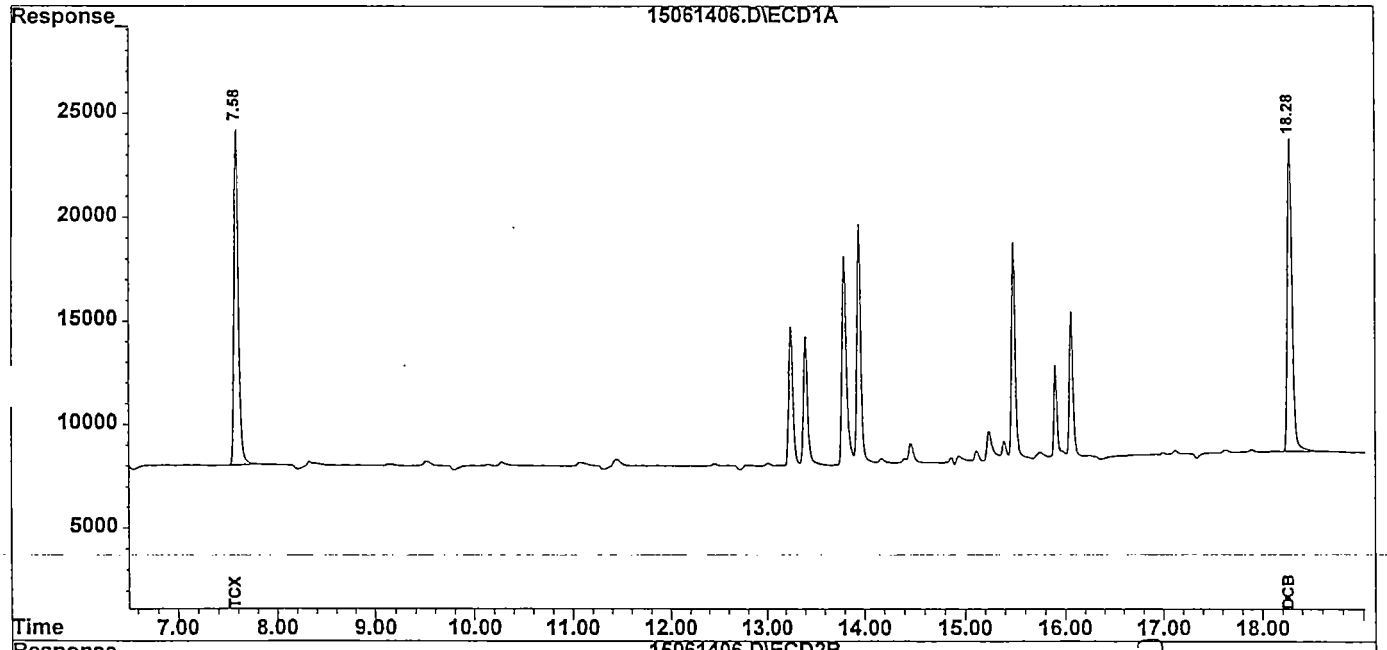
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

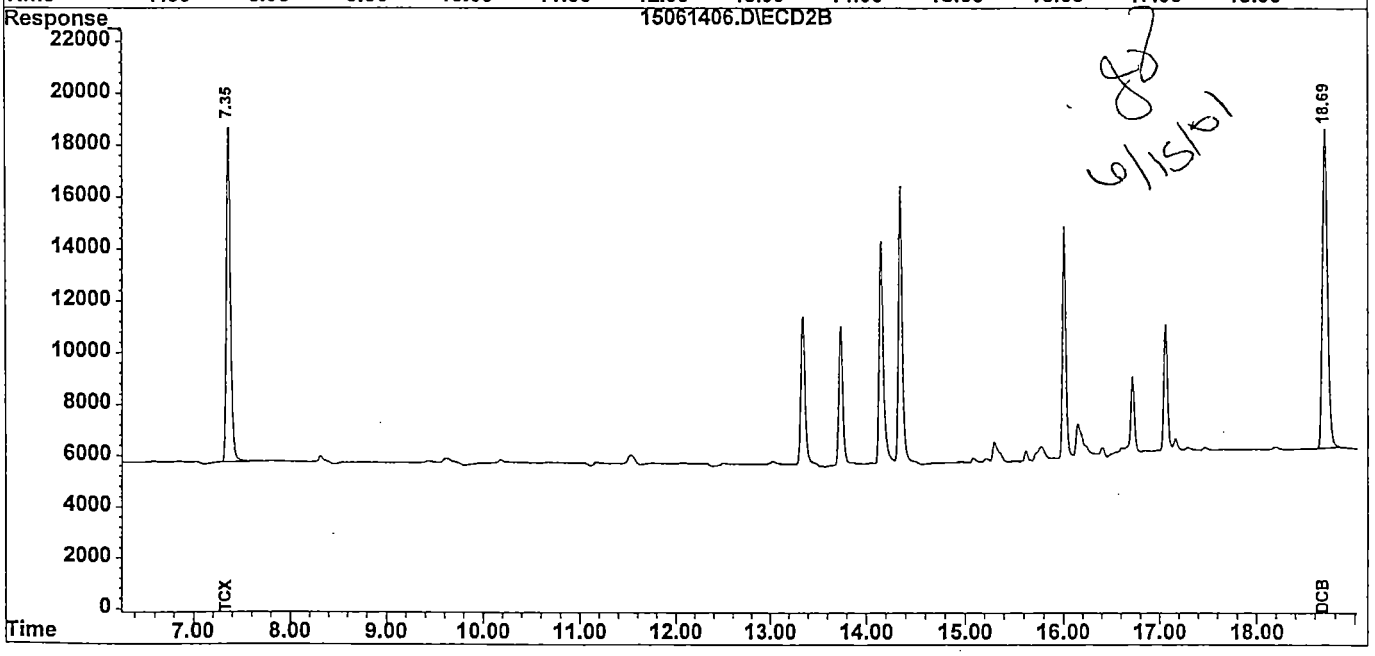
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\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:						
	ılti-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

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ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3065
Signature Freda M. Kilbourn
Date 06/19/01

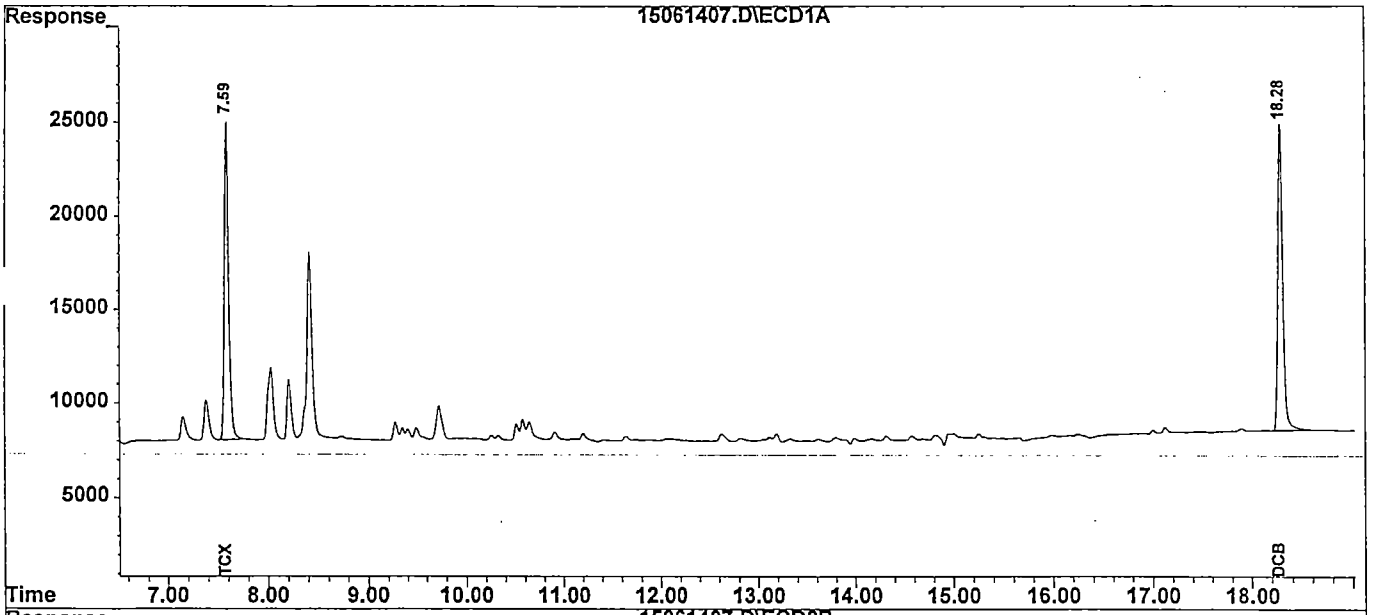
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

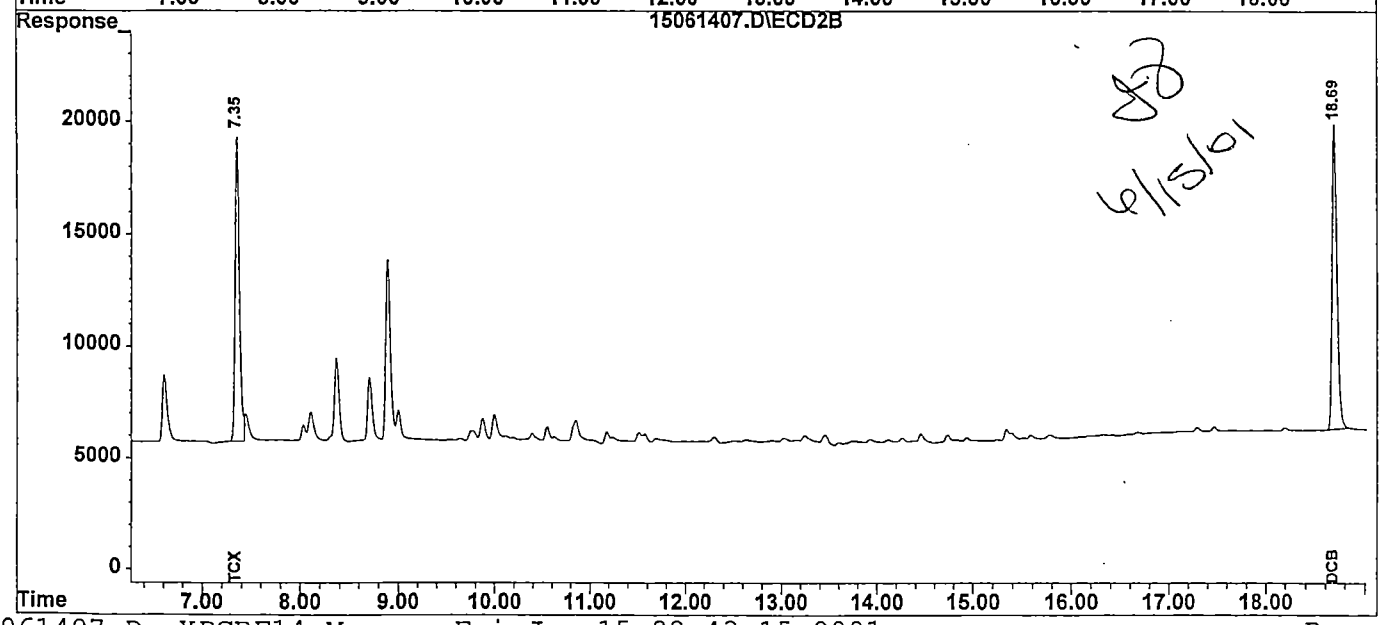
Chromatographic Report

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





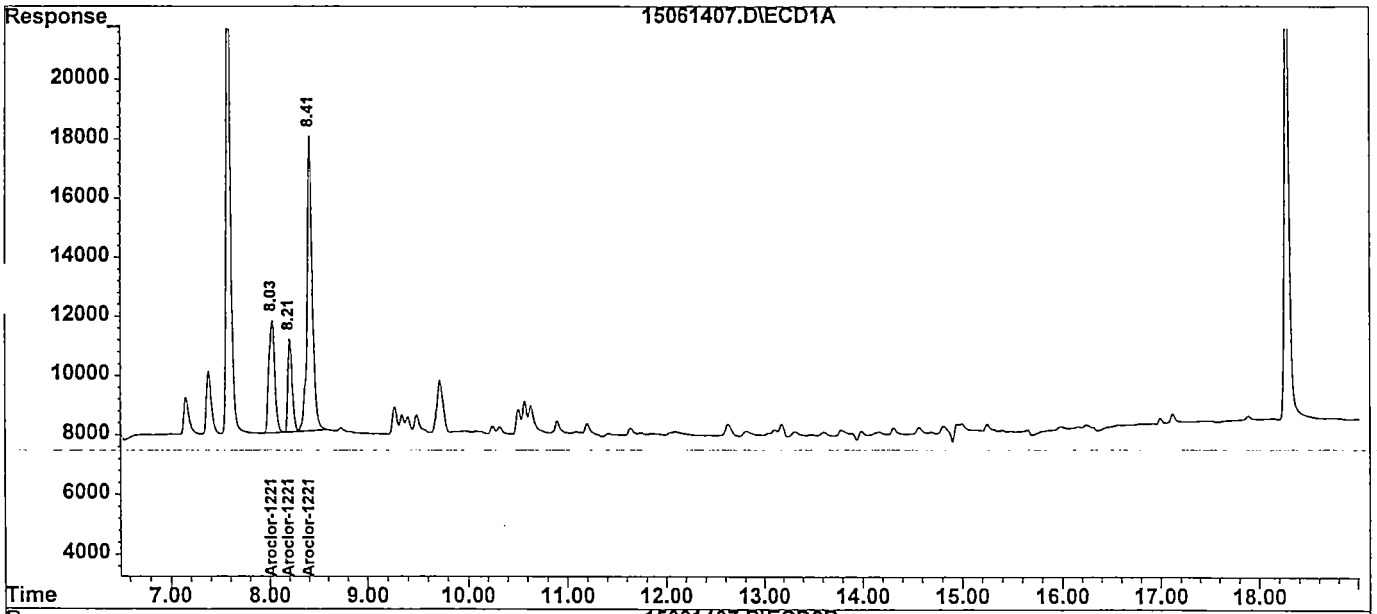
6/15/01

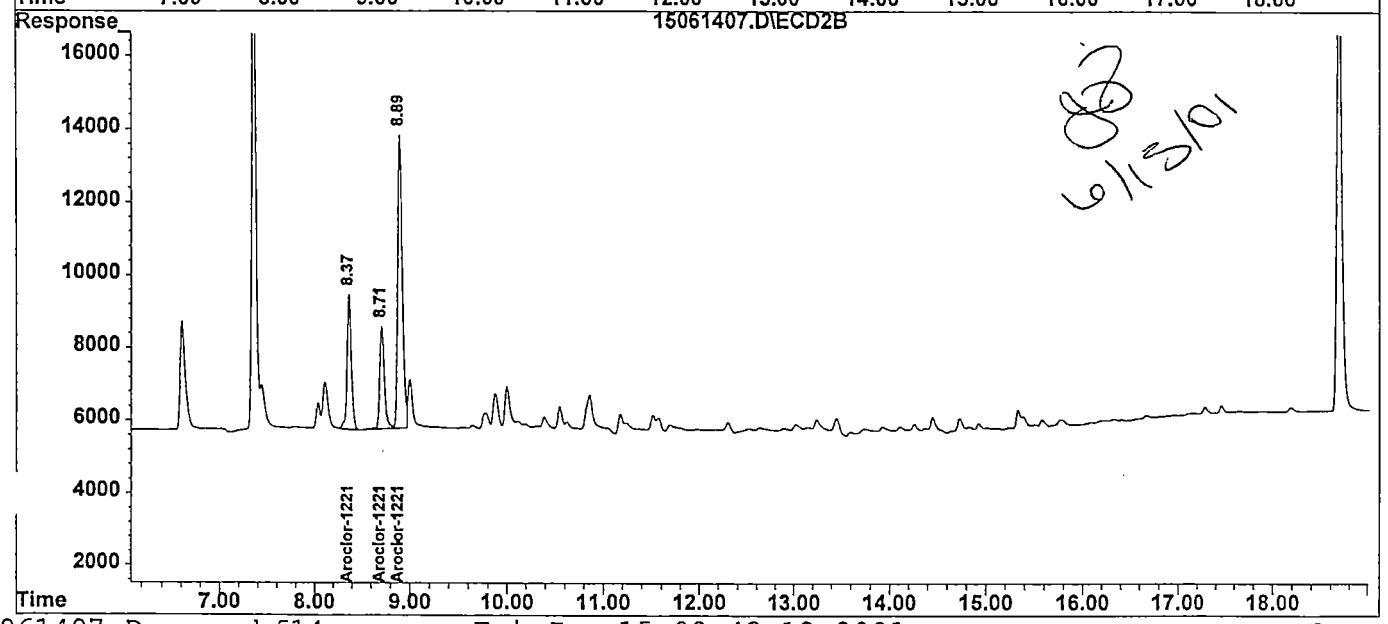
Chromatographic Report

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 Freida M. William
Date 06/19/01

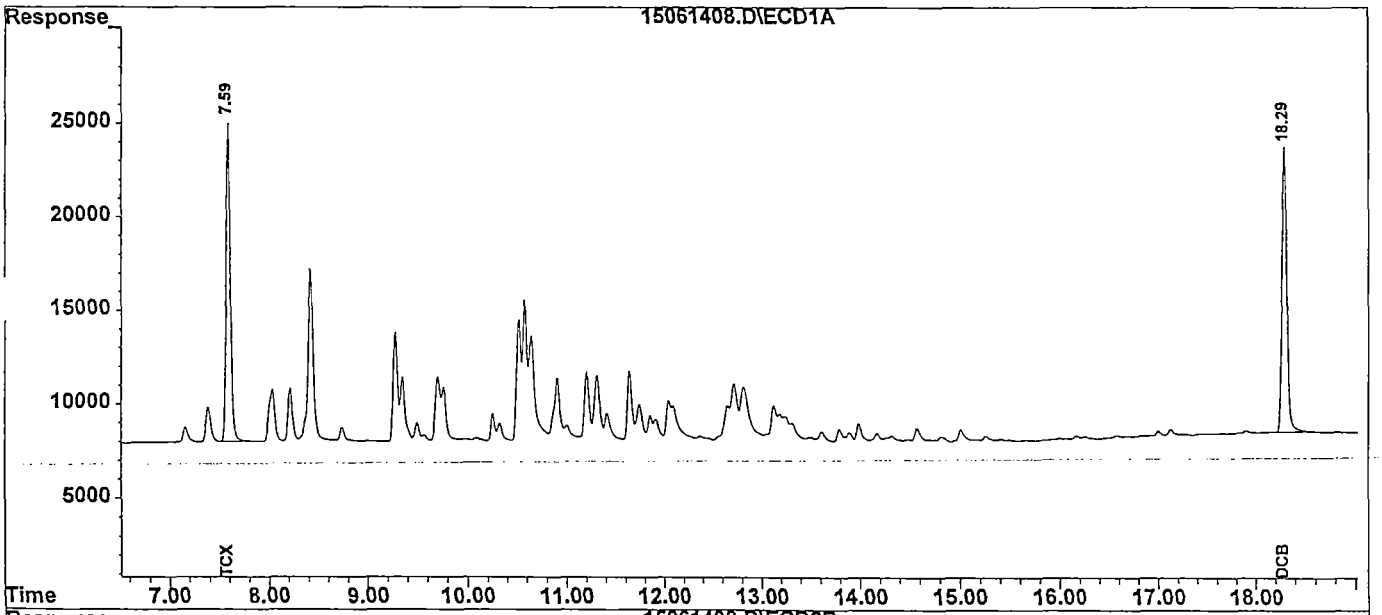
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

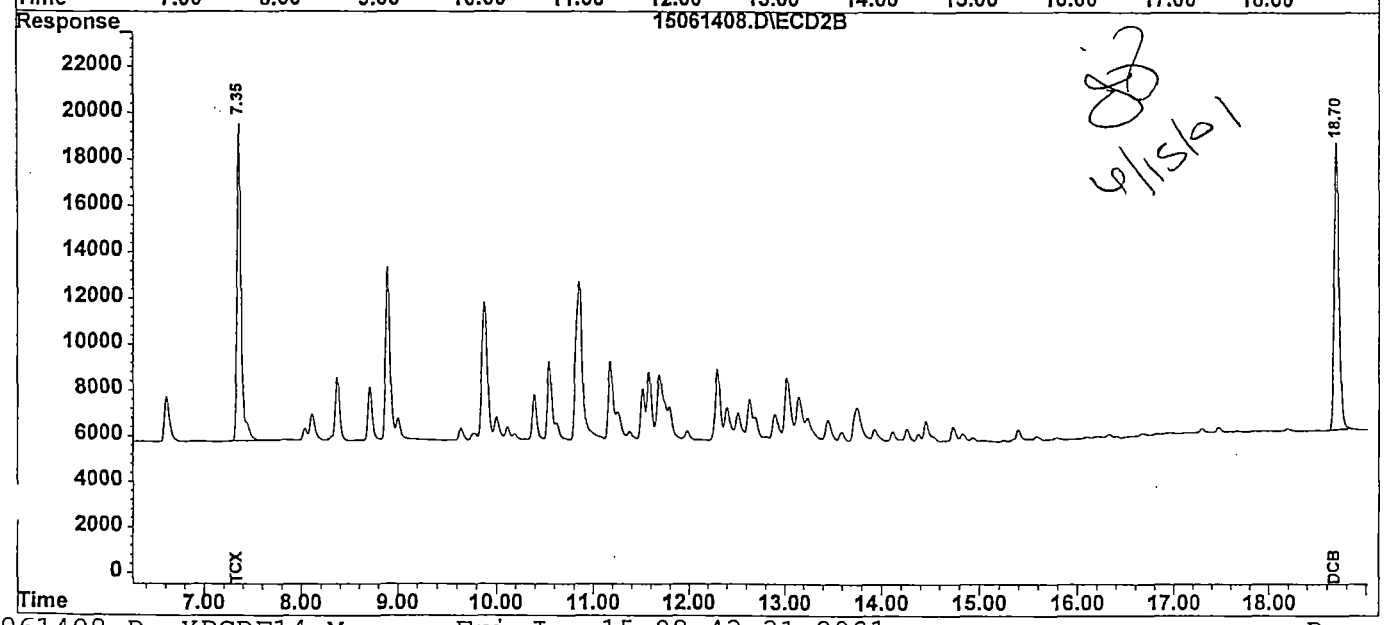
Chromatographic Report

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





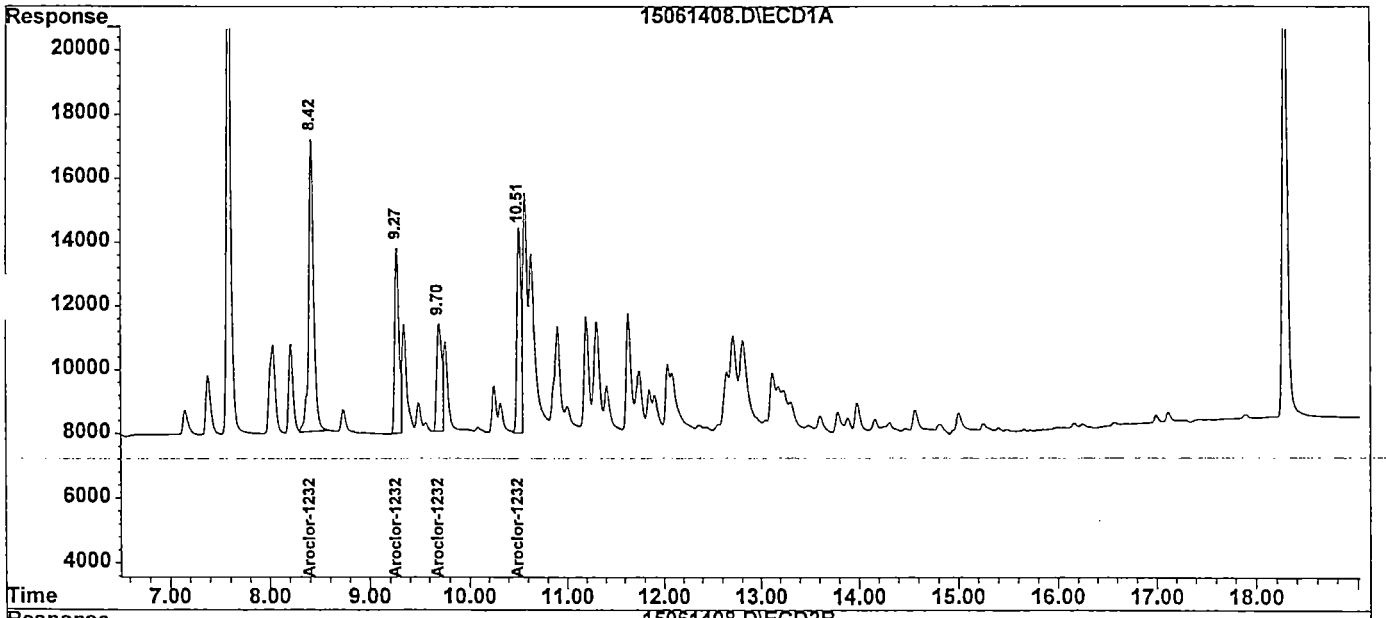
6/15/01

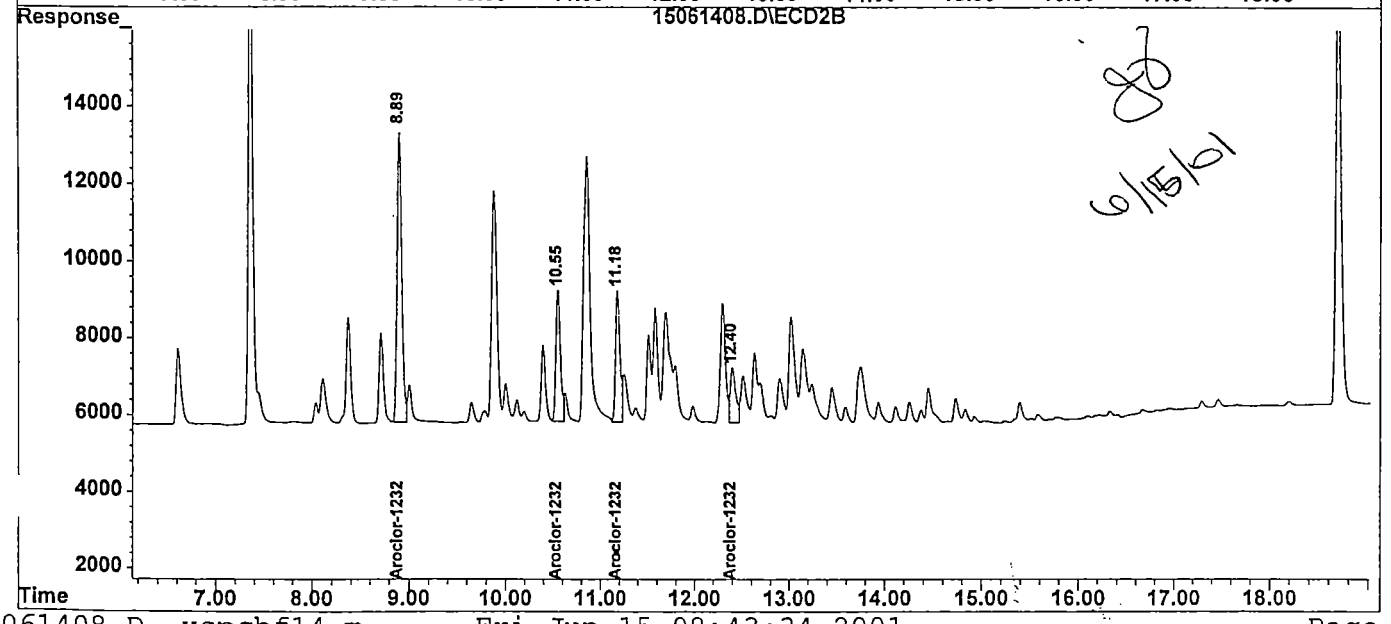
Chromatographic Report

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

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CSF 29294 SDG E3065
Signature Amelda 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
ample : 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	
9)	L4 Aroclor-1242 {3}	10.64	12.40	118000	22686	111.0	118.9	
10)	L4 Aroclor-1242 {4}	11.65	12.64	62689	29618	134.8	177.9	#
1[illegible]	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 Gretchen M. Wellman
Date 06/19/01

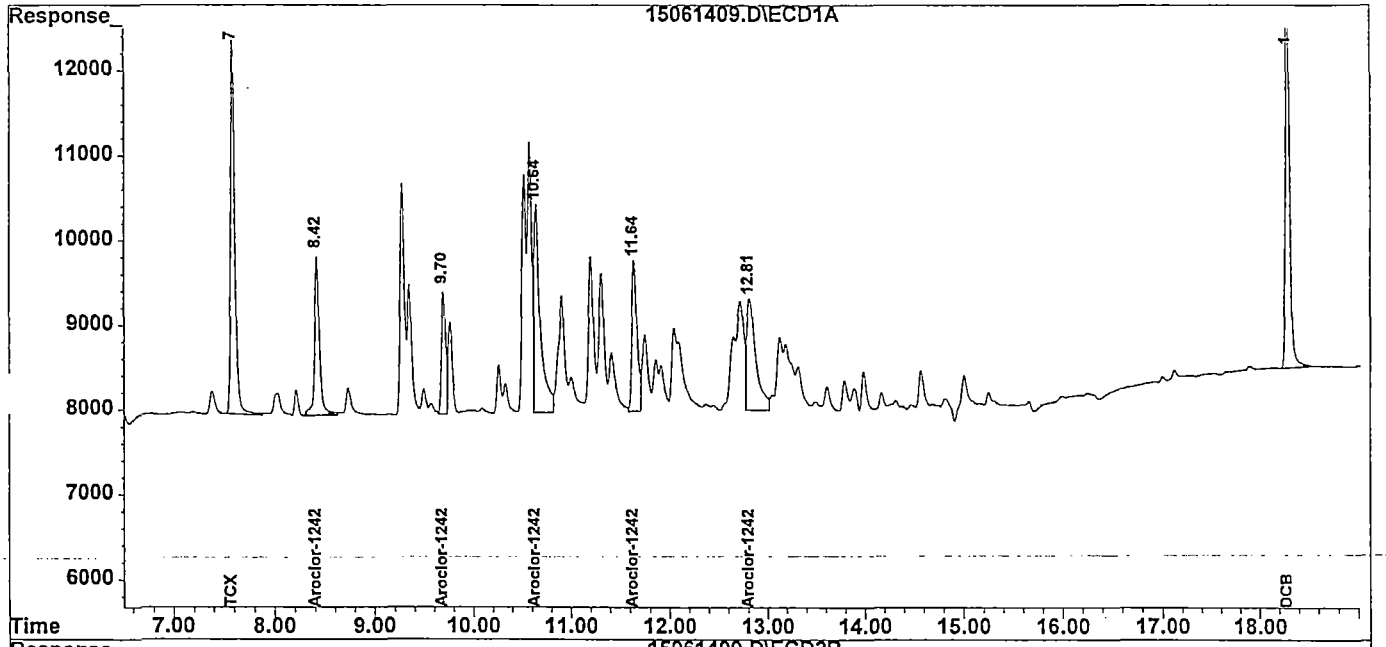
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

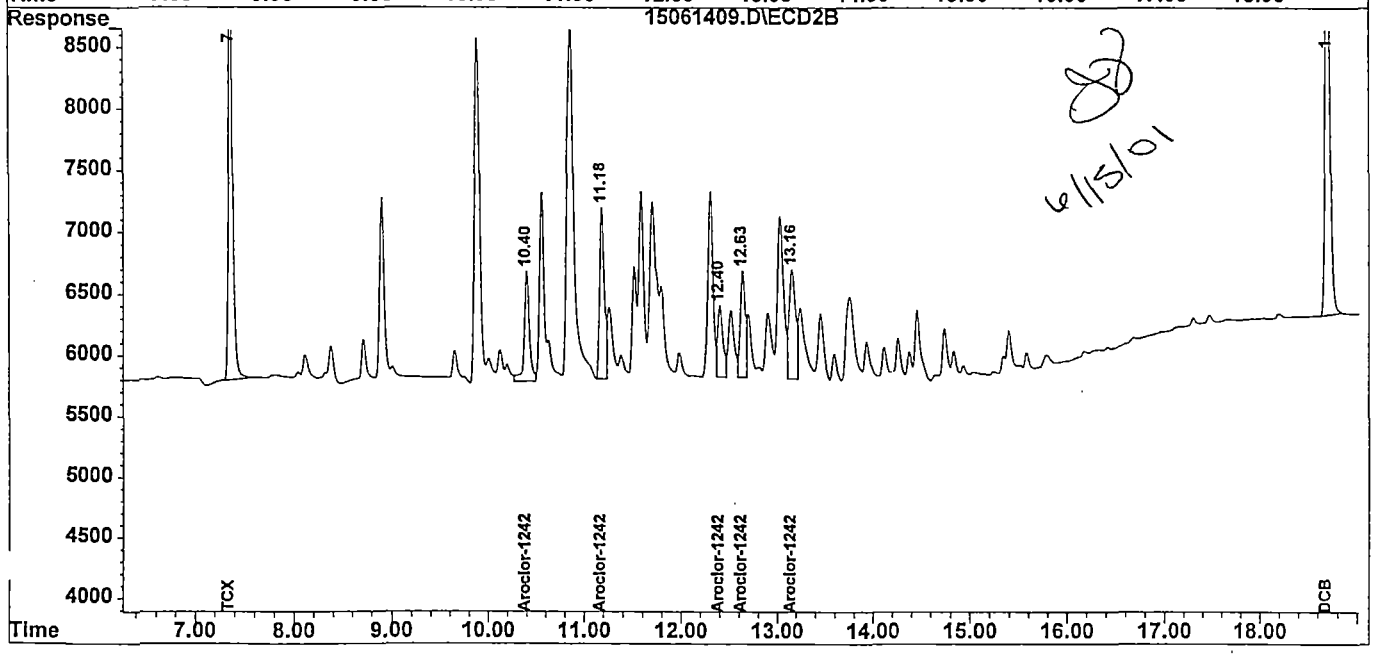
Chromatographic Report

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





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	
9)	L4 Aroclor-1242 {3}	10.64	12.40	239337	57487	222.4	291.0	#
10)	L4 Aroclor-1242 {4}	11.64	12.64	133840	66530	268.2	338.5	#
[illegible]	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	

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ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3065
Signature Janette M. Williams
Date 06/19/01

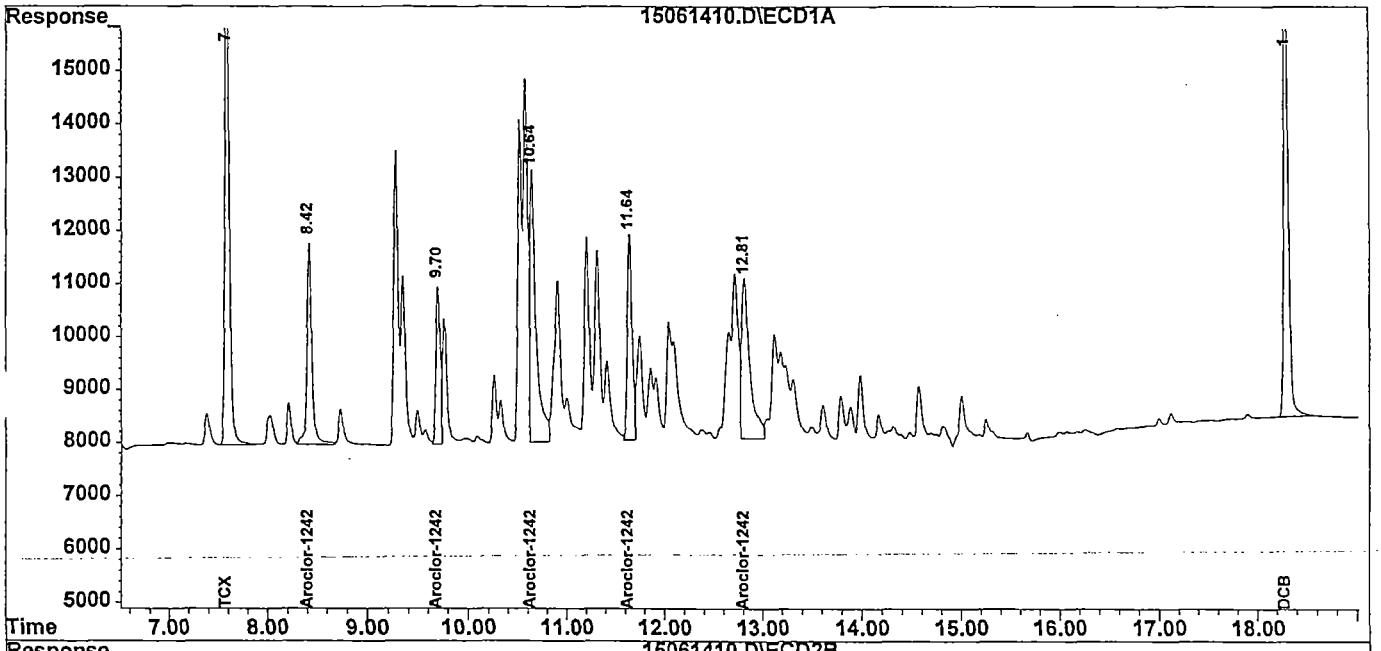
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

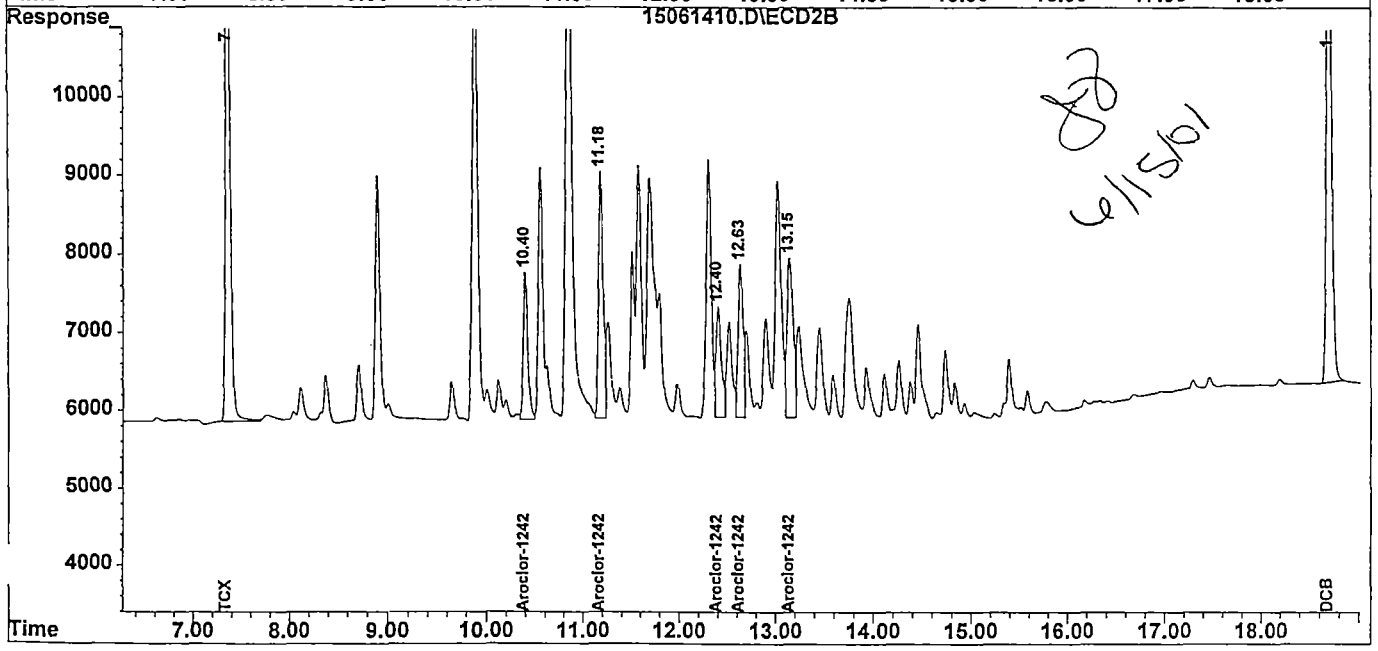
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\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





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	#
9)	L4 Aroclor-1242 {3}	10.64	12.40	397903	113799	363.3	522.3	#
10)	L4 Aroclor-1242 {4}	11.64	12.64	229032	124159	426.9	534.7	#
[illegible]	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
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Signature Anne de M. Williams
Date 06/19/01
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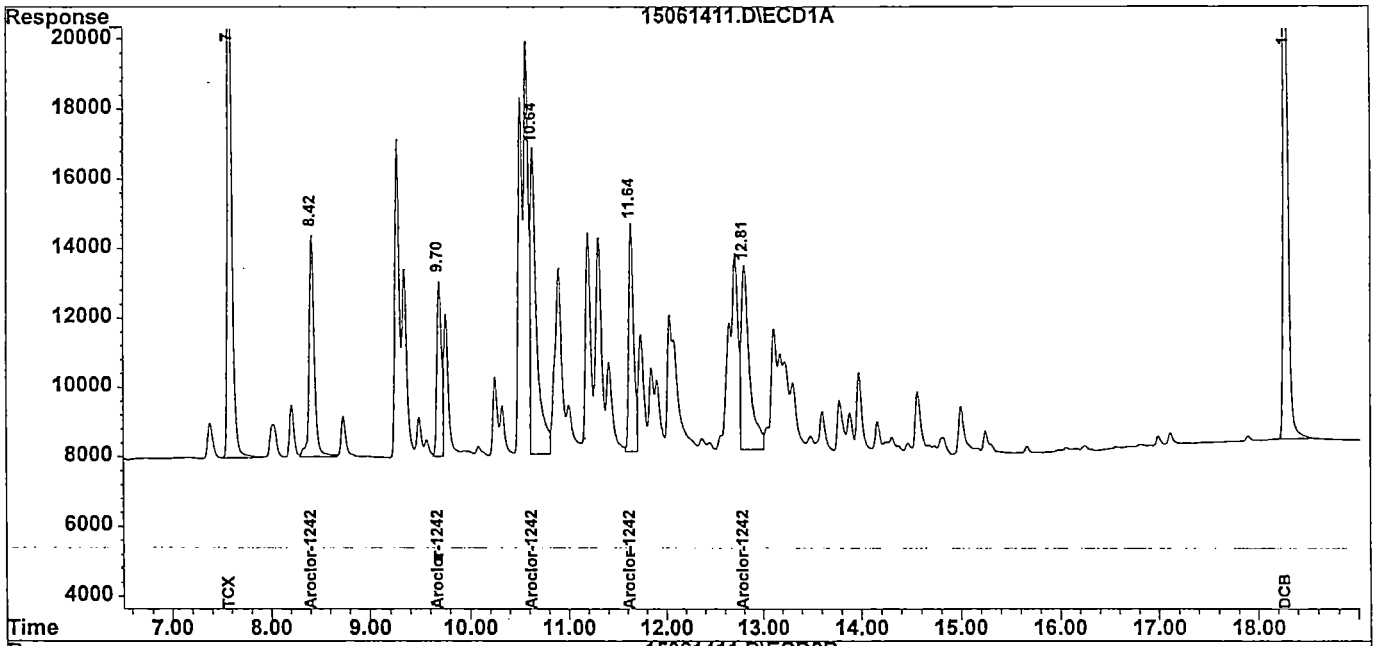
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

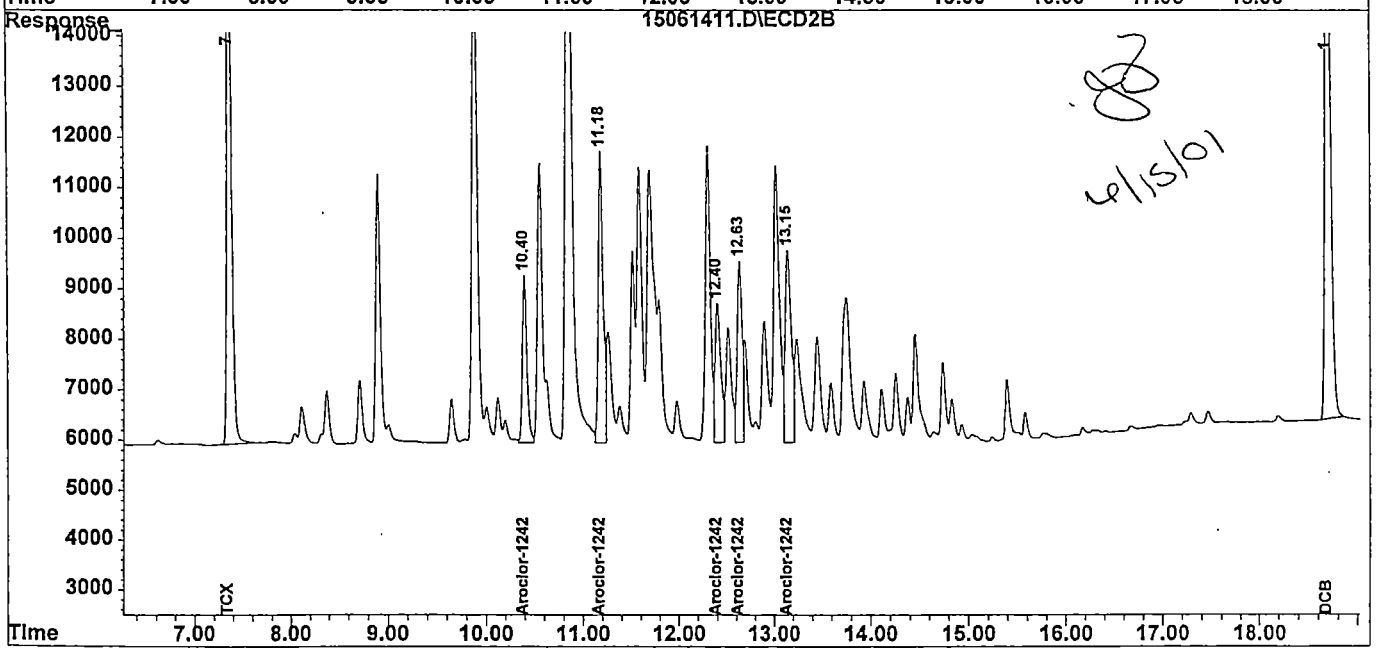
Chromatographic Report

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





6/15/01

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	
22)	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	
9)	L4 Aroclor-1242 {3}	10.64	12.40	710315	220563	653.5	916.0	#
1[illegible]	L4 Aroclor-1242 {4}	11.64	12.64	412715	238124	738.2	902.3	
1[illegible]	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	

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CSF 29294 SDG E3065
Signature Janetta M. Williams
Date 06/19/01

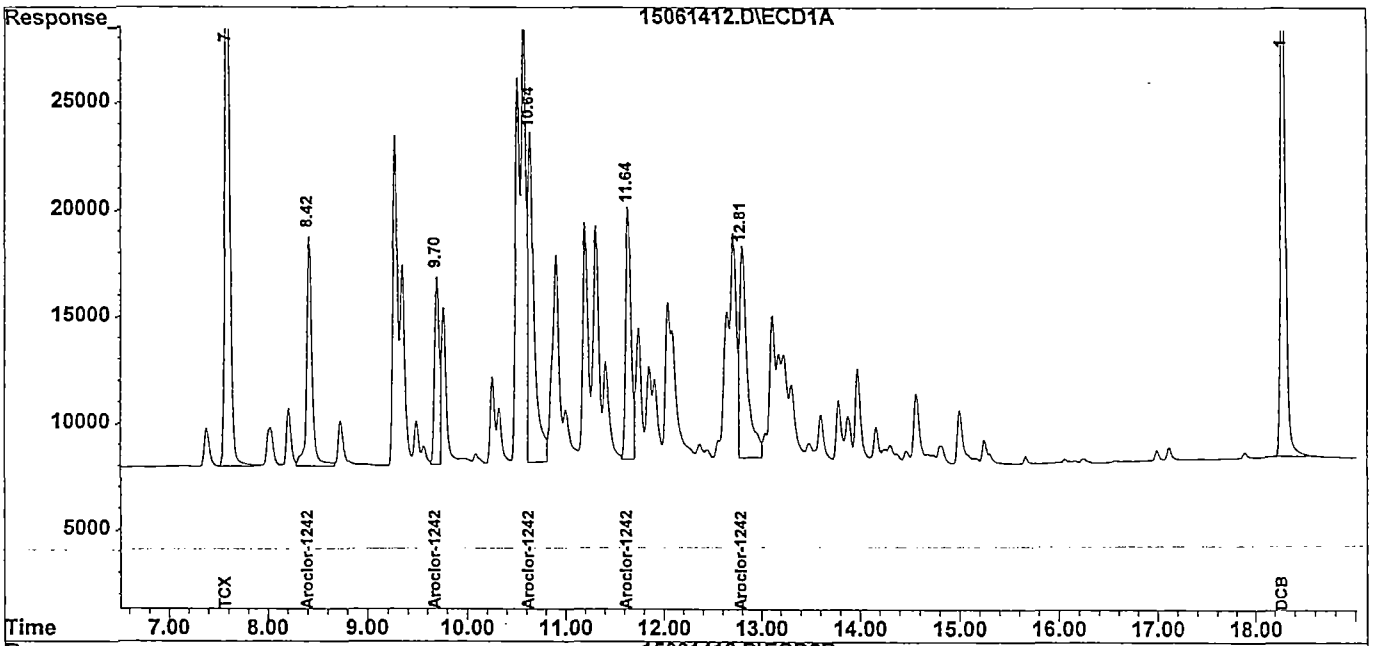
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

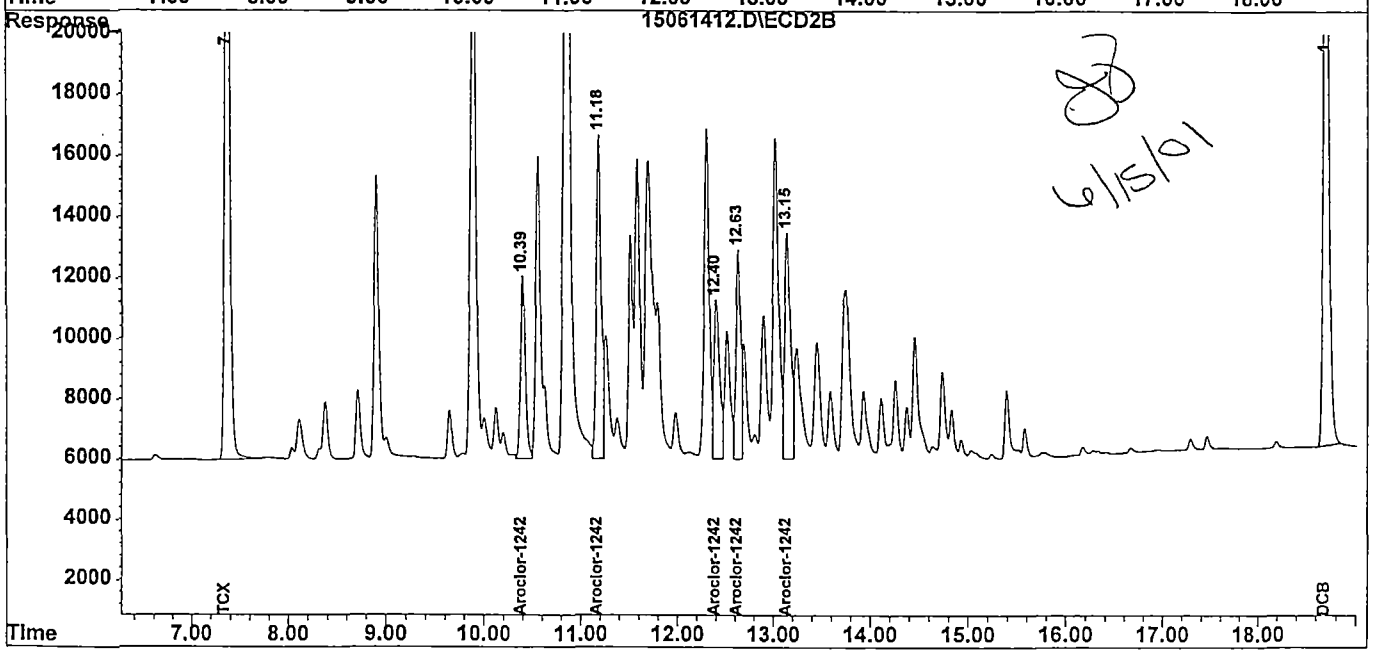
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\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
9)	L4 Aroclor-1242 {3}	10.64	12.40	1304120	435981	1235.5	1696.4 E#
1[illegible]	L4 Aroclor-1242 {4}	11.64	12.63	780967	477310	1372.8 E	1654.7 E
1[illegible]	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 E3065
Signature Amelia M. Mulhern
Date 06/19/01

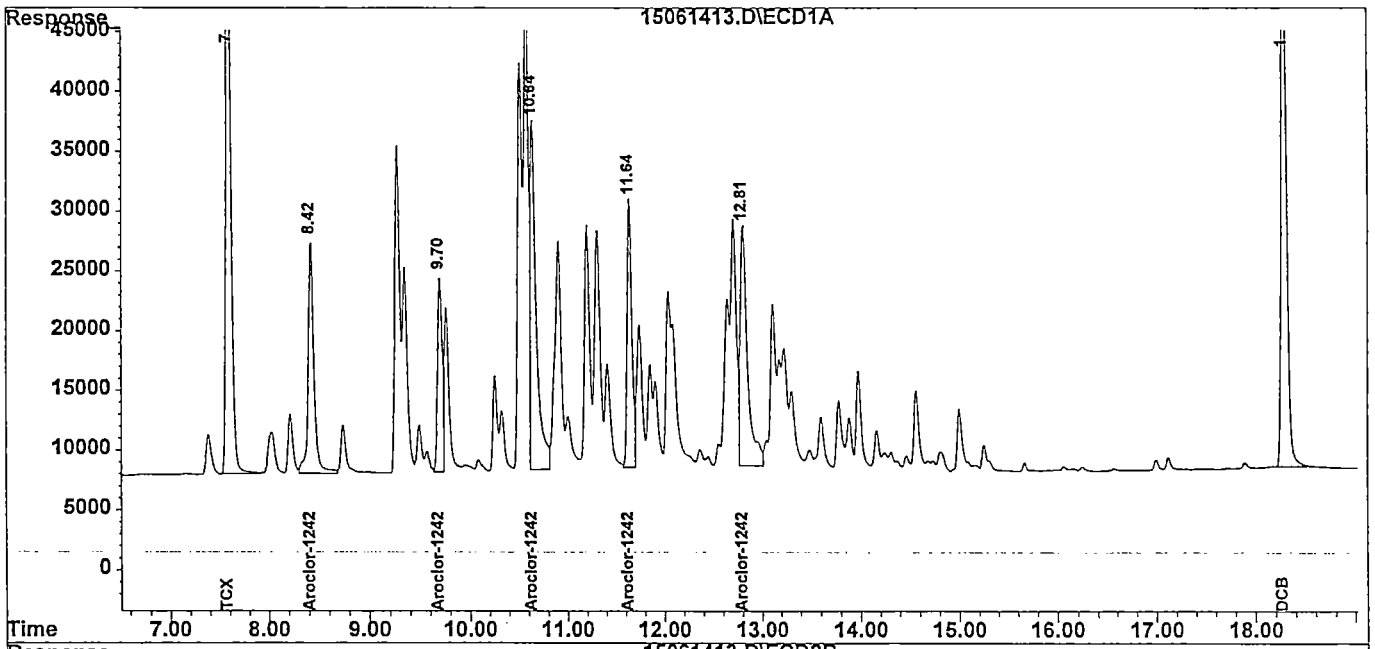
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

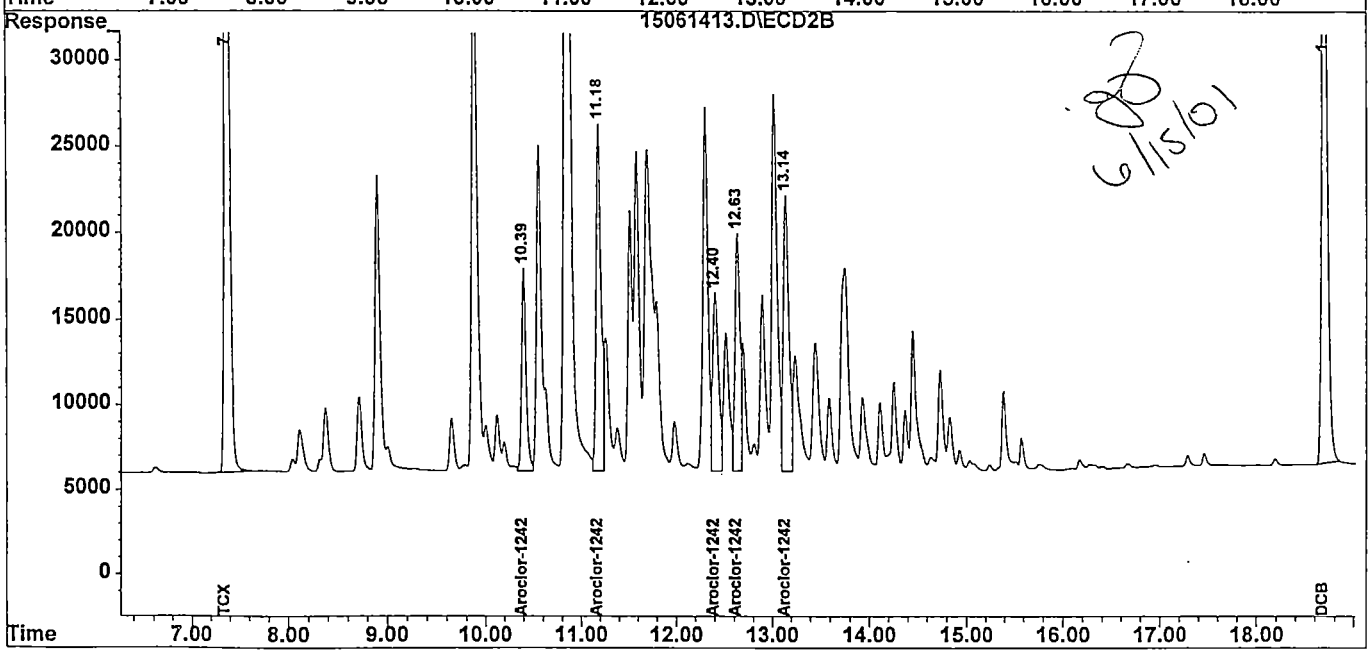
Chromatographic Report

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	

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG 53065
Signature Gretchen M. Wallace
Date 06/19/01

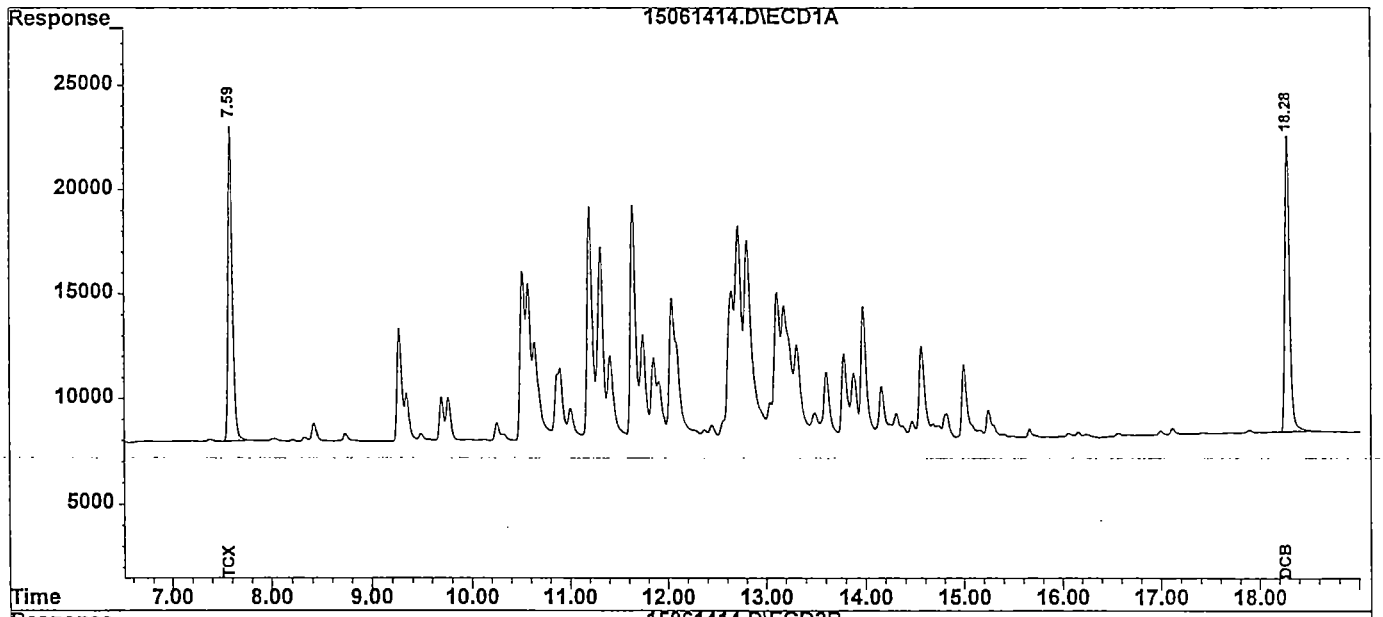
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

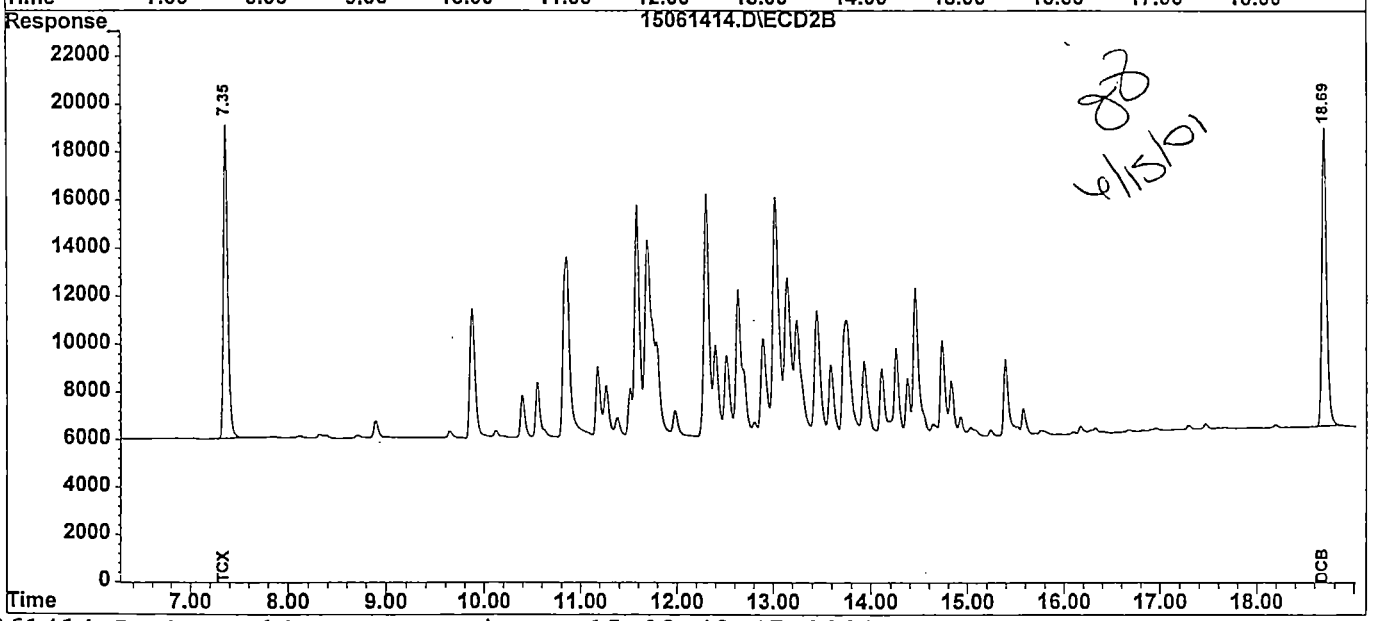
Chromatographic Report

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





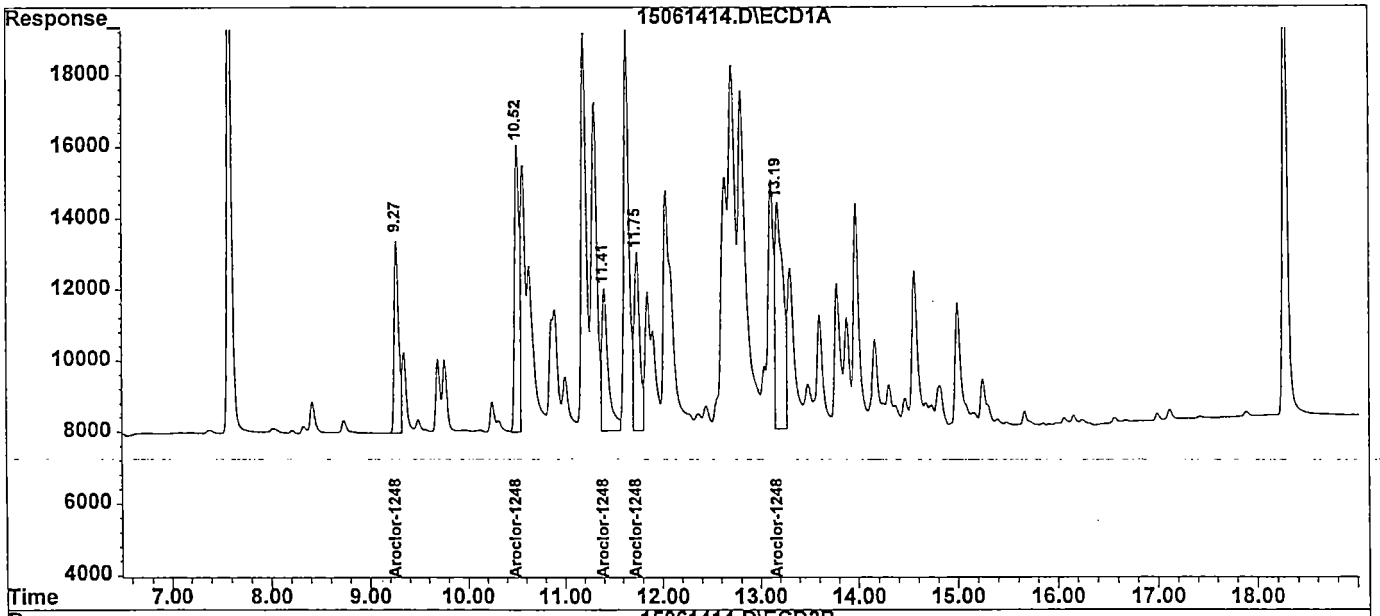
6/15/01

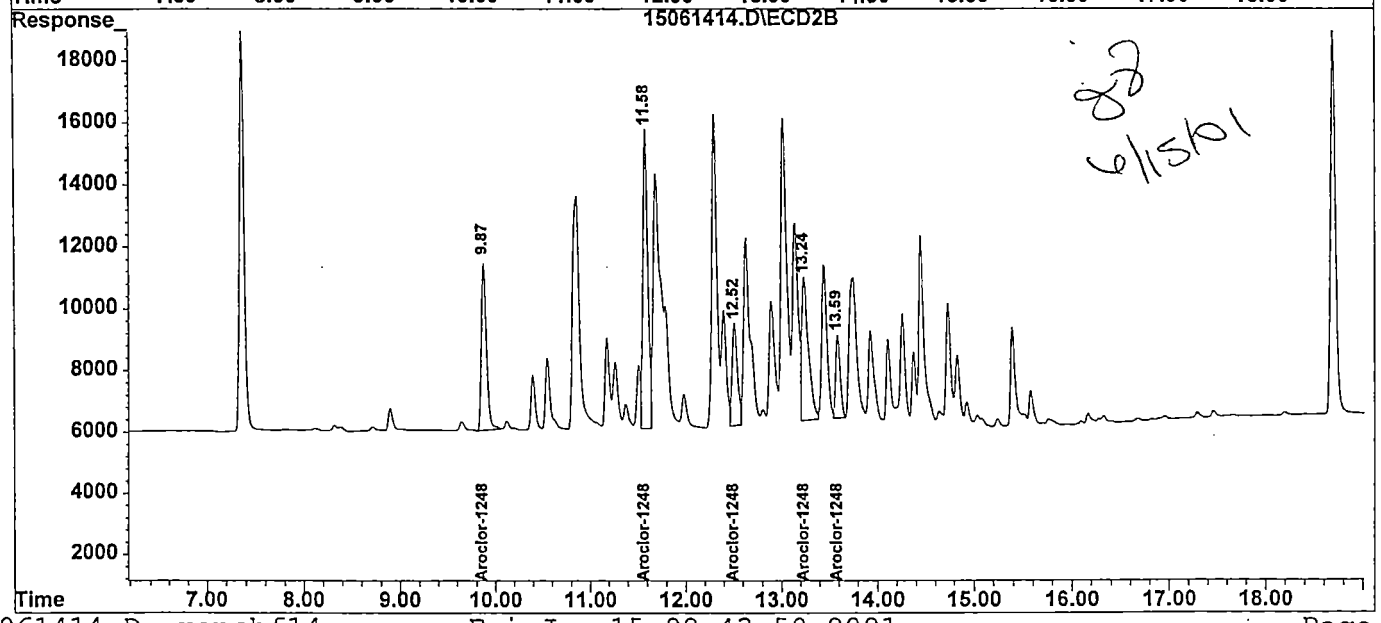
Chromatographic Report

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





8
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 =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 E3065
Signature Arnelda M. Villeni
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	#
14)	L6 Aroclor-1254 {3}	13.79f	13.94	113016	53024	144.2	155.1	
1	L6 Aroclor-1254 {4}	14.32	14.93	104271	79434	129.4	137.7	
1.	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	

COPY

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3055
Signature Brenda M. Williams
Date 06/19/01

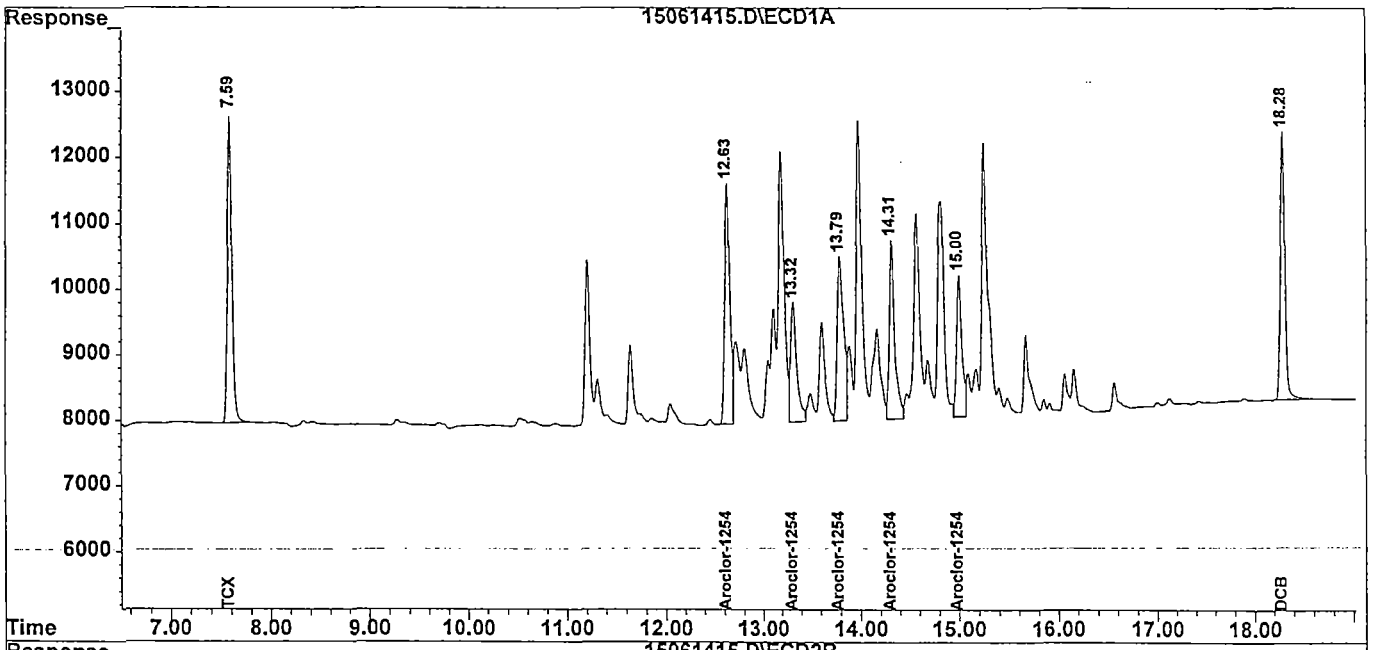
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

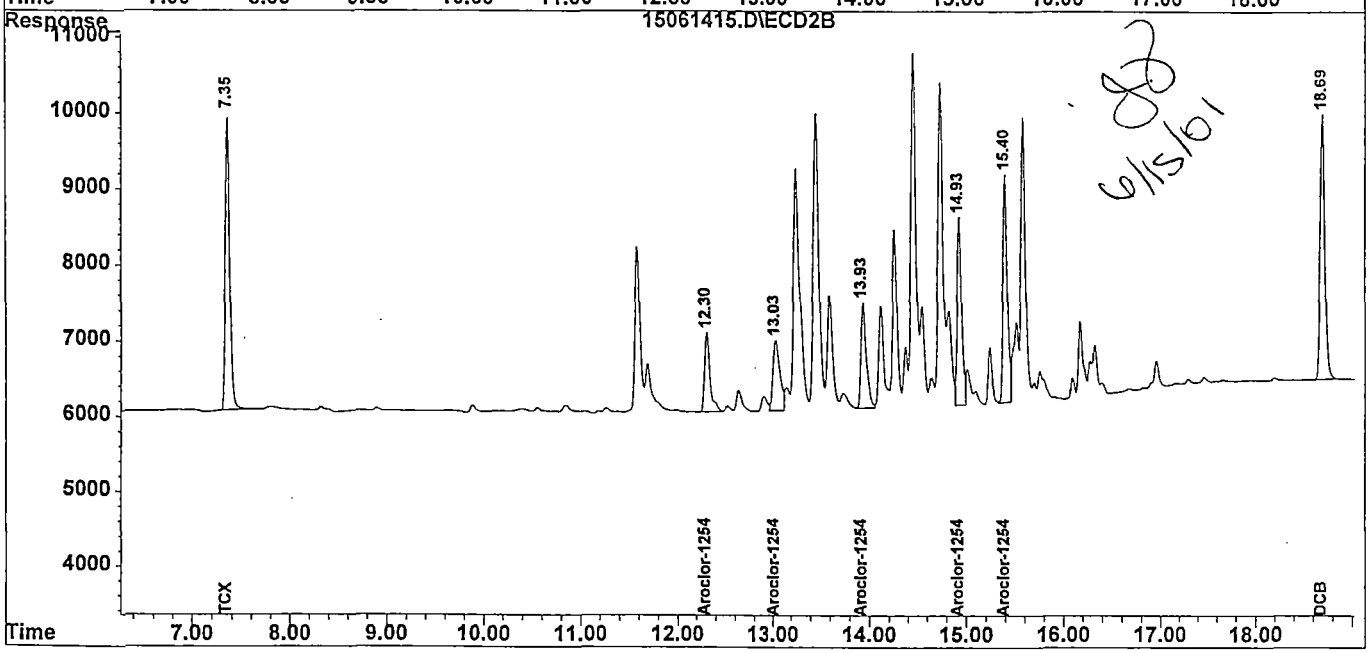
Chromatographic Report

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	#
14)	L6 Aroclor-1254 {3}	13.79	13.94	211554	104179	237.5	266.4	
1[illegible]	L6 Aroclor-1254 {4}	14.32	14.93	192849	146259	231.0	229.8	
1	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 Amelia M. Williams
Date 06/19/01

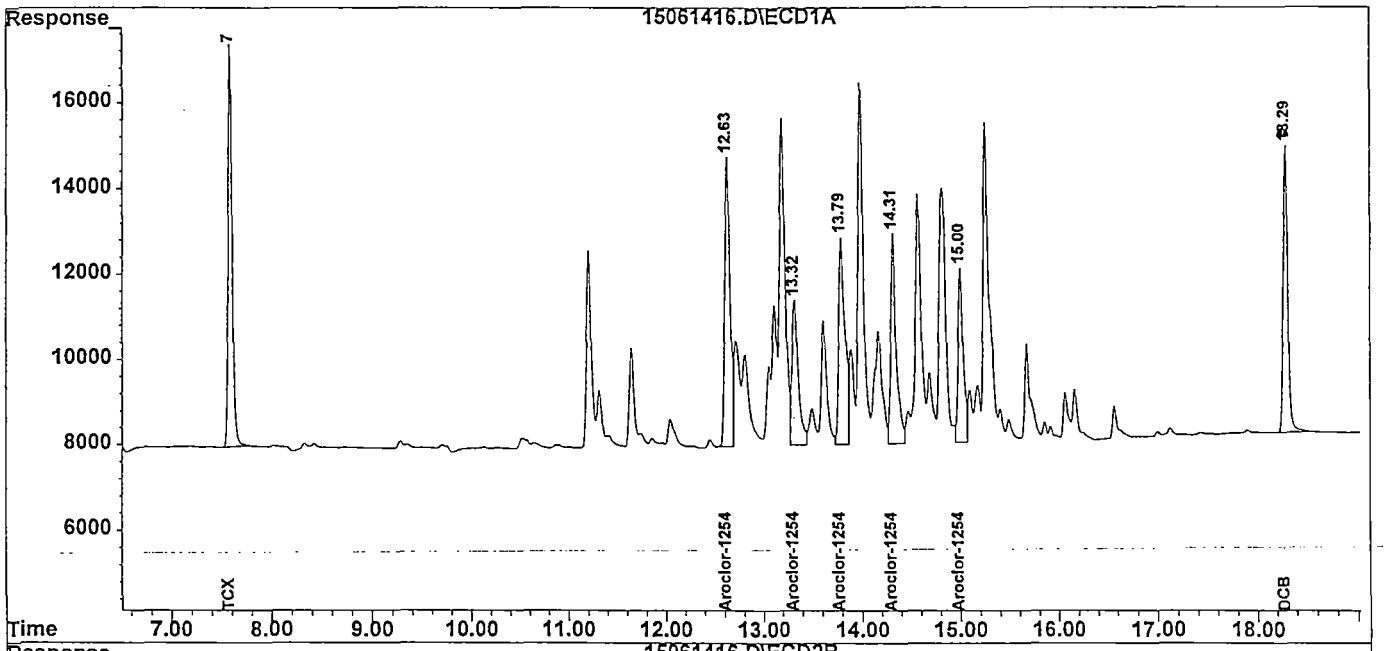
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
15061416.D XPCBF14.M Fri Jun 15 08:30:22 2001 Page 1

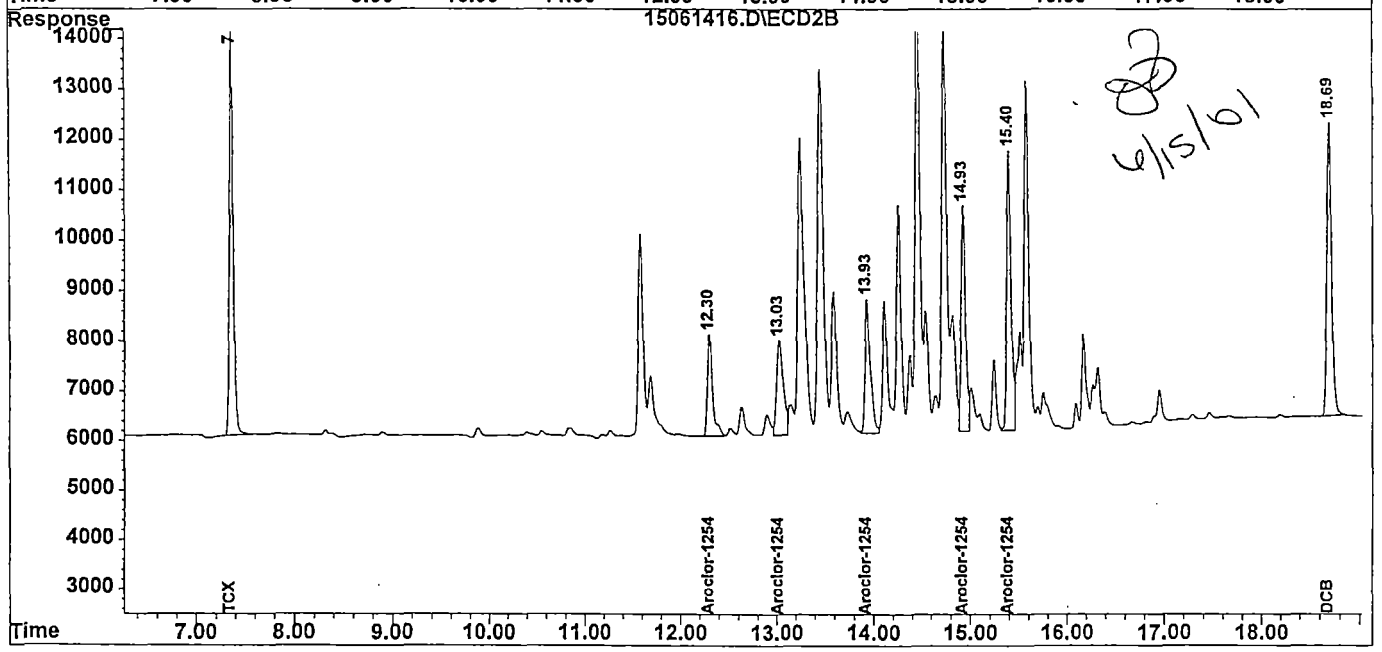
Chromatographic Report

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	#
14)	L6 Aroclor-1254 {3}	13.79	13.94	427588	216792	453.2	500.5	
1[illegible]	L6 Aroclor-1254 {4}	14.31	14.93	385577	306616	445.7	454.8	
1	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	

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3065
Signature Ruth M. Williams
Date 06/19/01

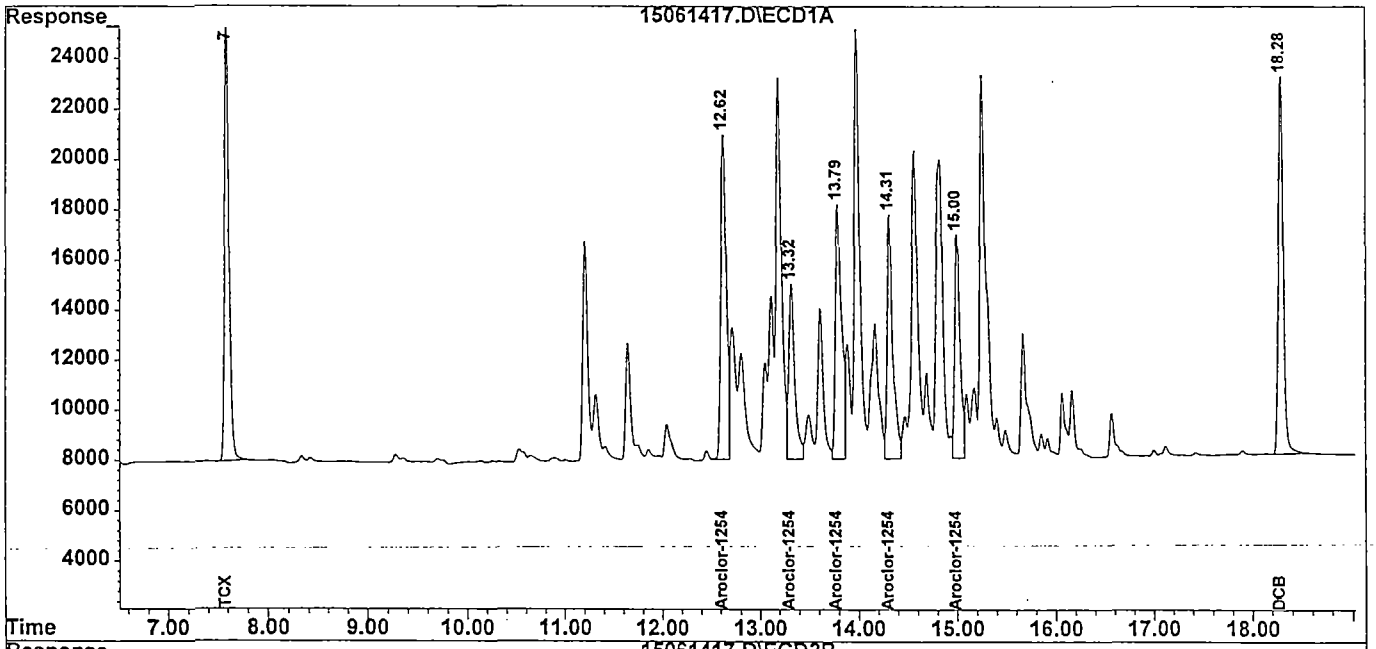
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

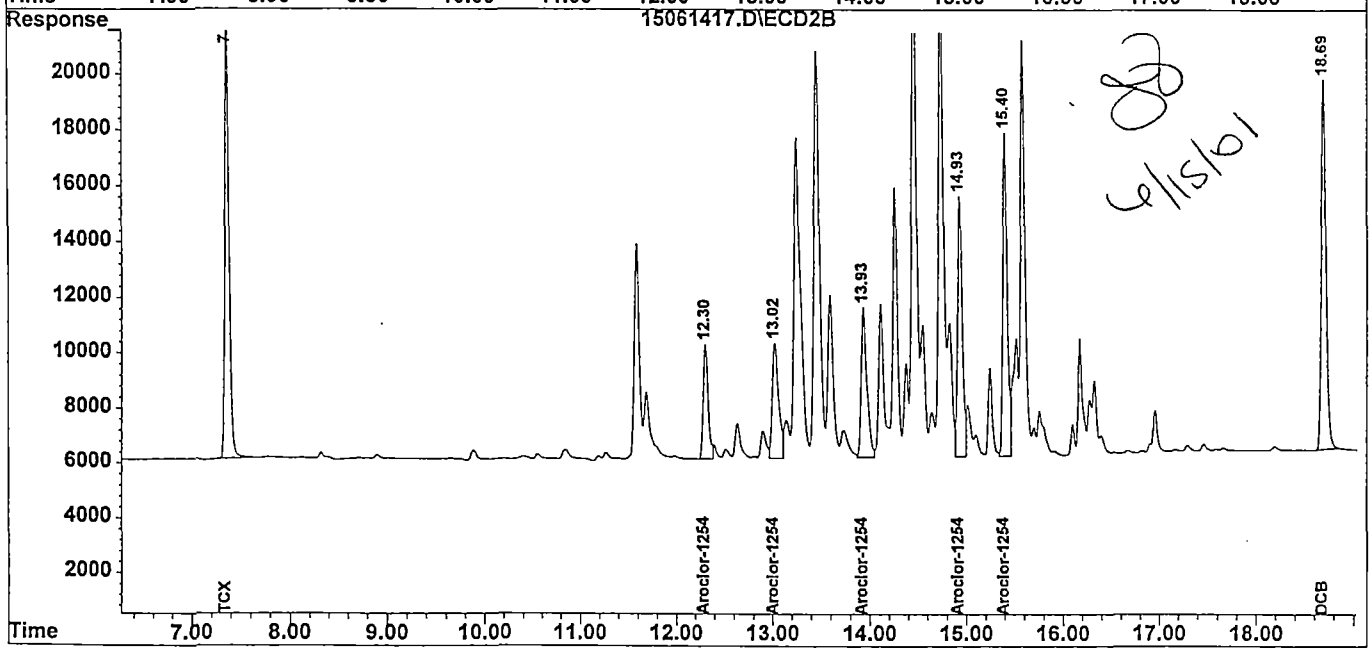
Chromatographic Report

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	#
14)	L6 Aroclor-1254 {3}	13.79	13.93	778847	405718	815.2	857.1	
1	L6 Aroclor-1254 {4}	14.31	14.93	689543	576565	765.4	804.5	
1.	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 Amelia M. Williams
Date 06/19/01

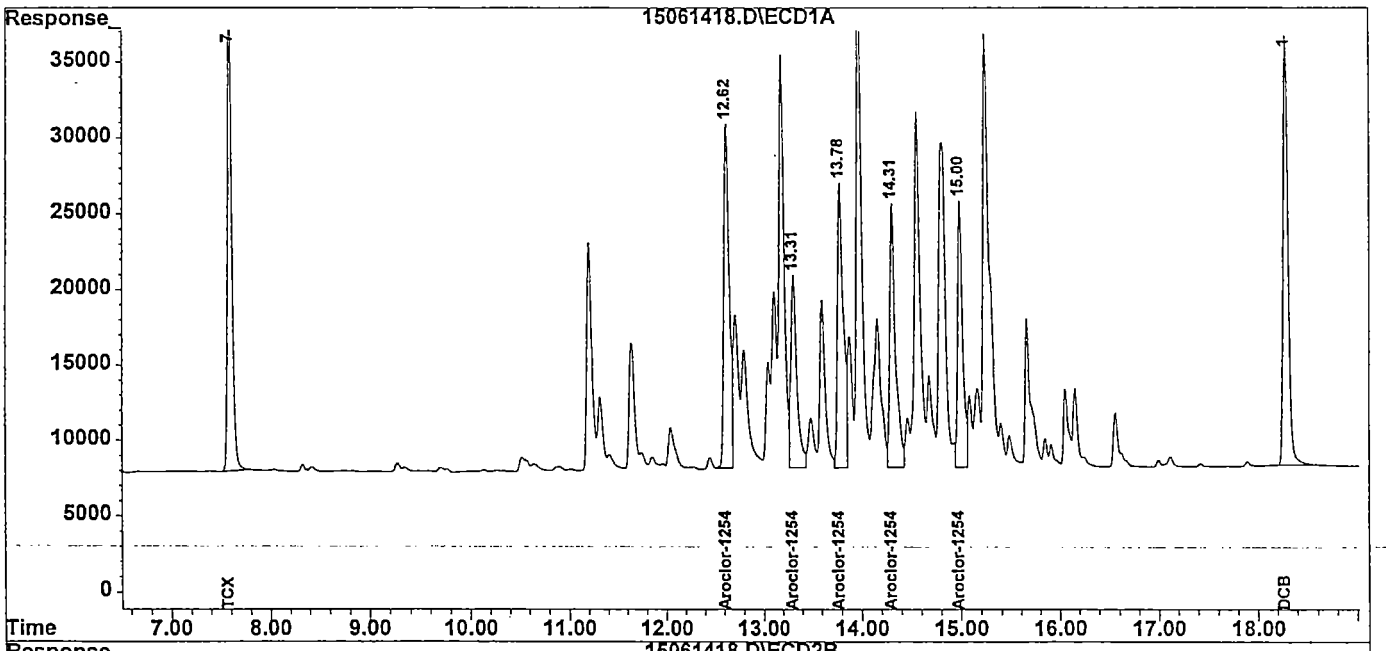
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

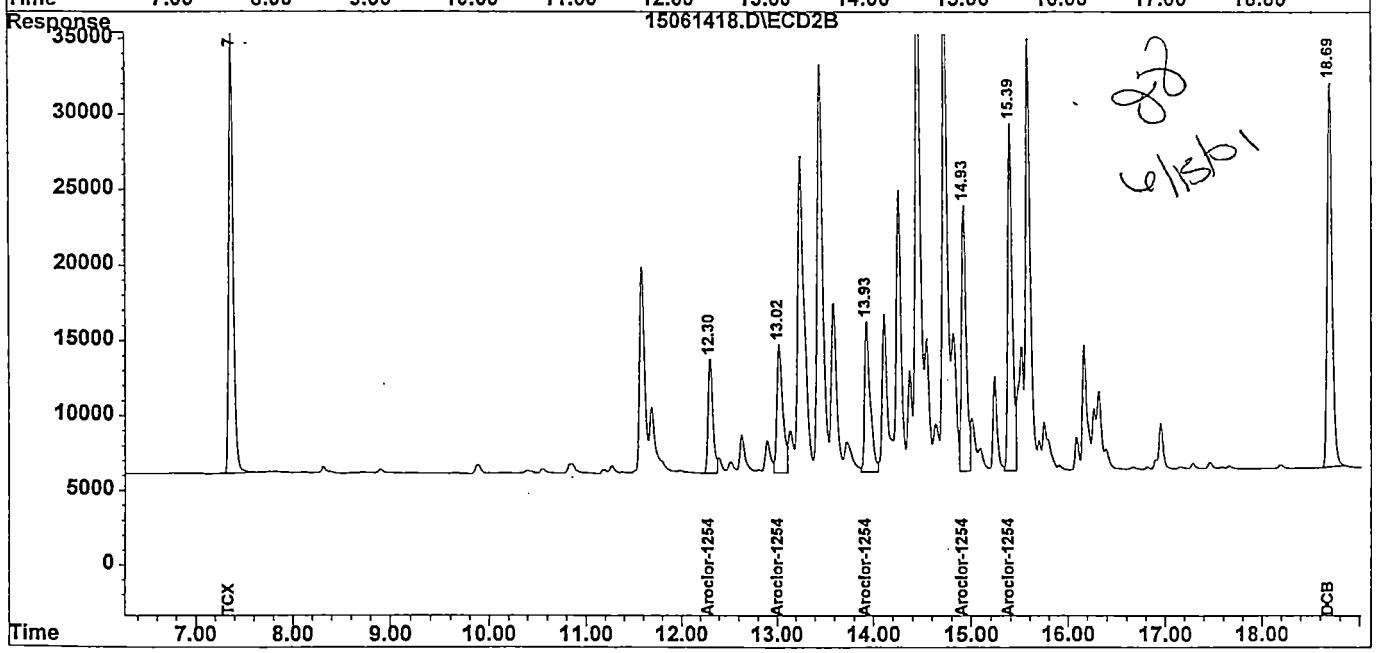
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\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#
14)	L6 Aroclor-1254 {3}	13.78	13.93	1483926	787634	1491.5 E	1583.0 E
15)	L6 Aroclor-1254 {4}	14.31	14.93	1268014	1099920	1383.4 E	1495.6 E
1	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 Mulla M. Williams
Date 06/19/01

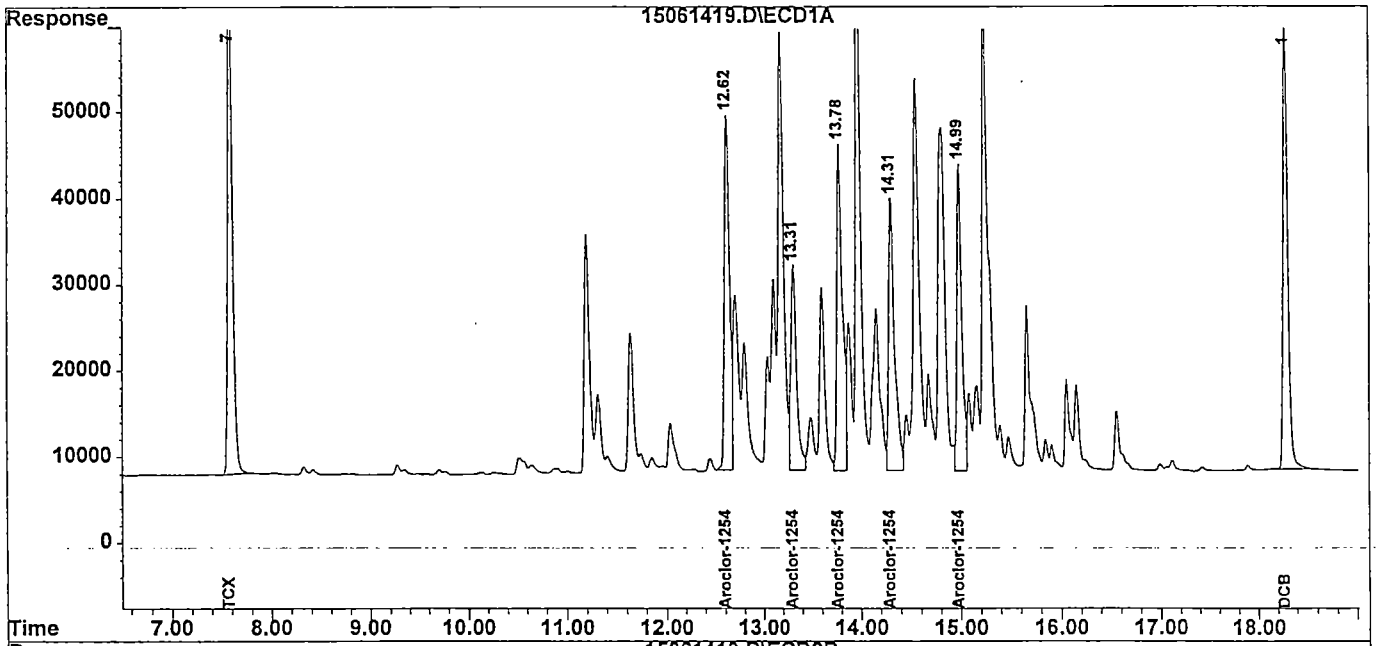
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

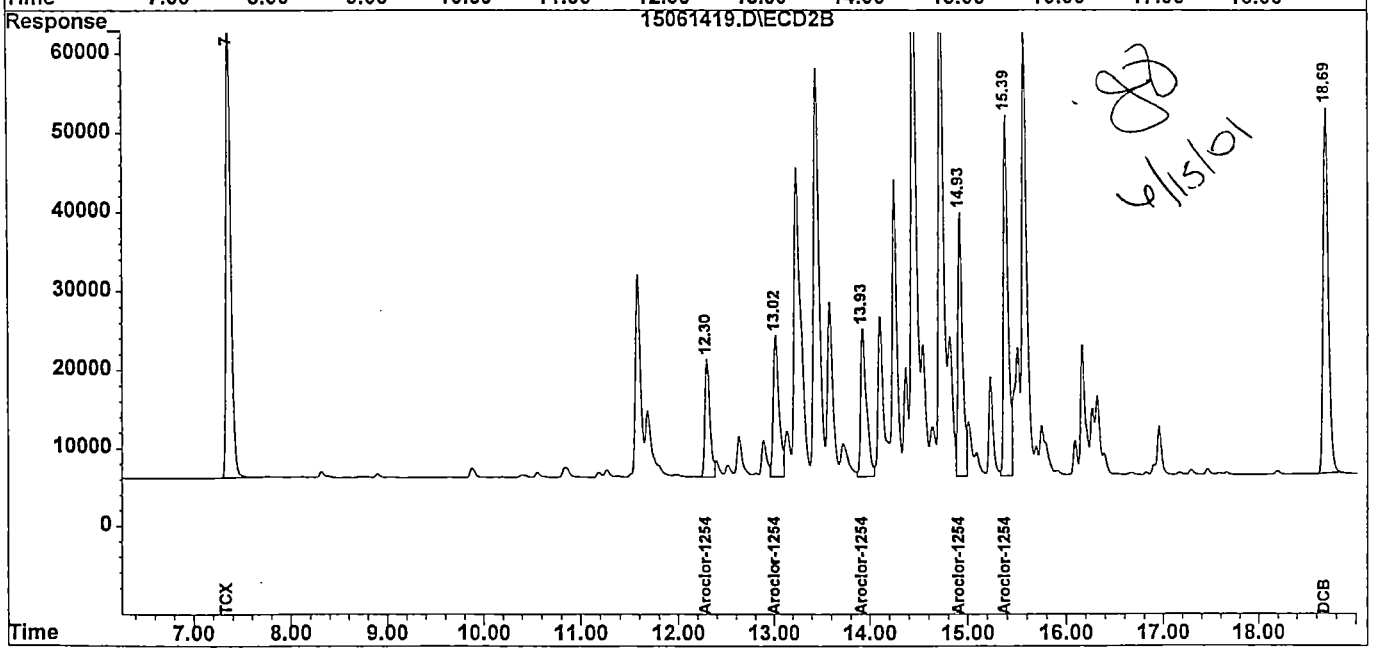
Chromatographic Report

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

COPY
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	
4)	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	
	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
CSF 29294 SDG E3065
Signature Sandra M. Williams
Date 06/19/01

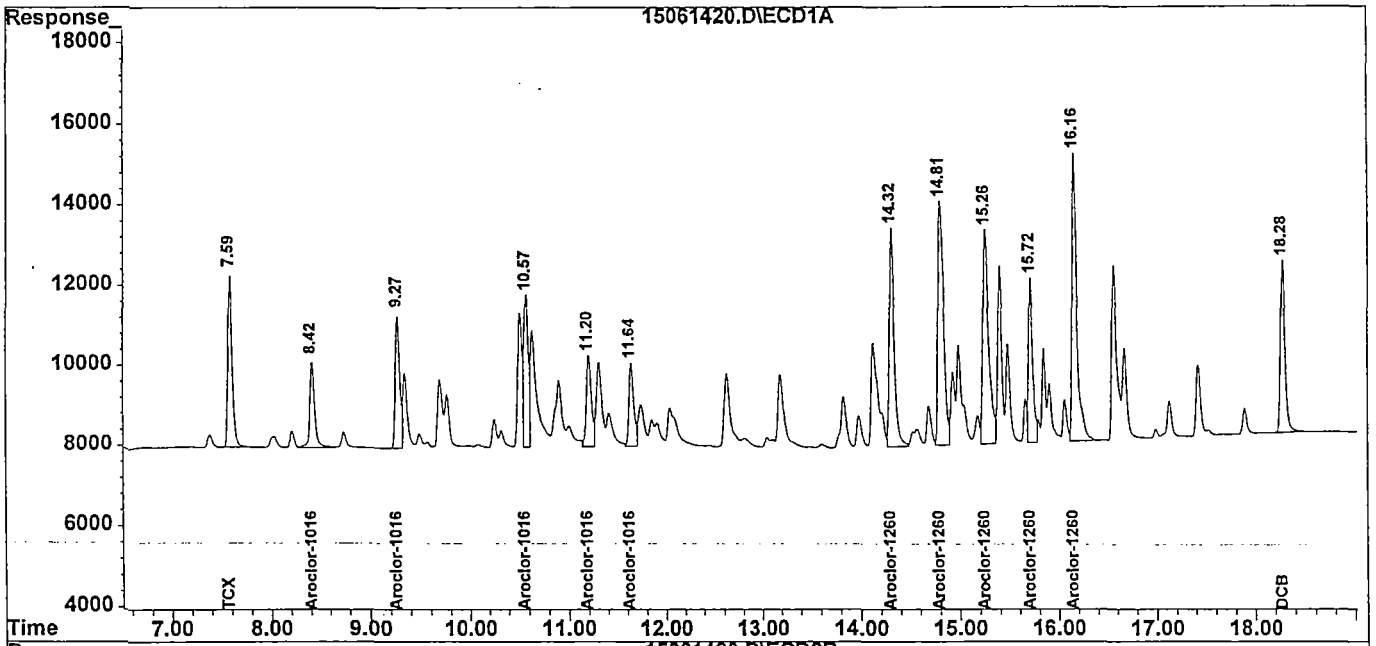
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

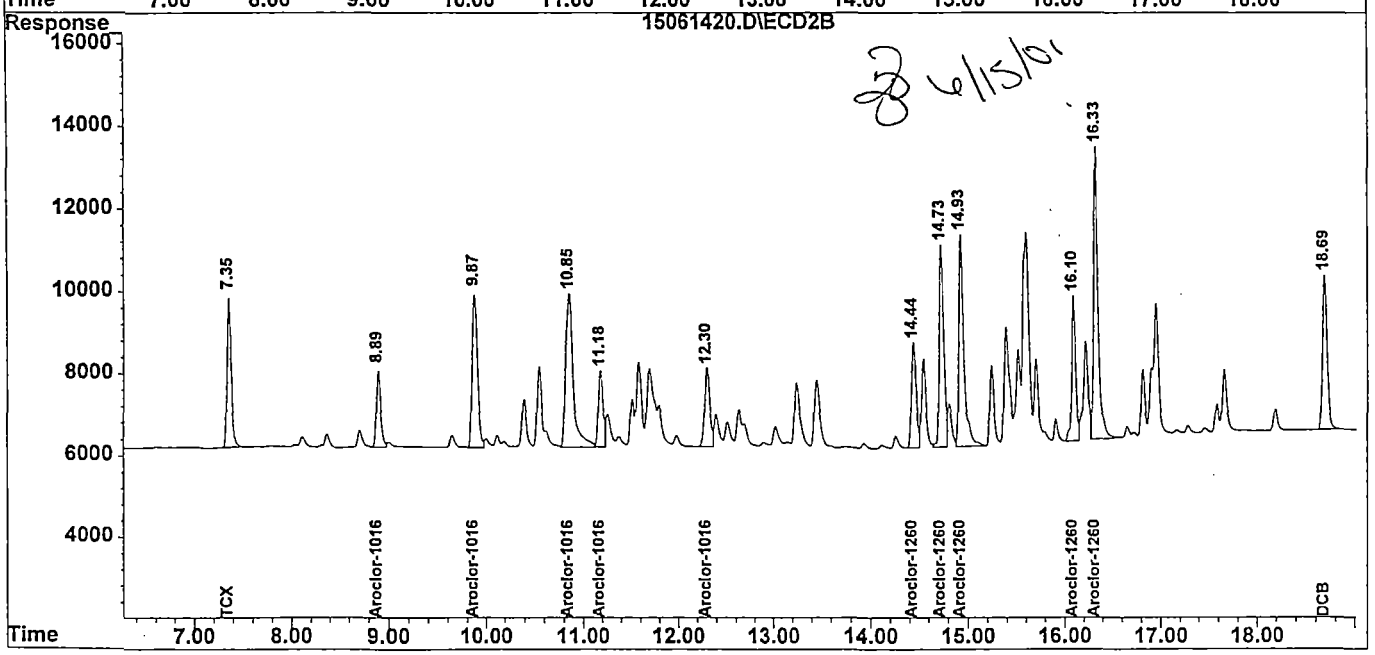
Chromatographic Report

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





6/15/01

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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
4)	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
	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

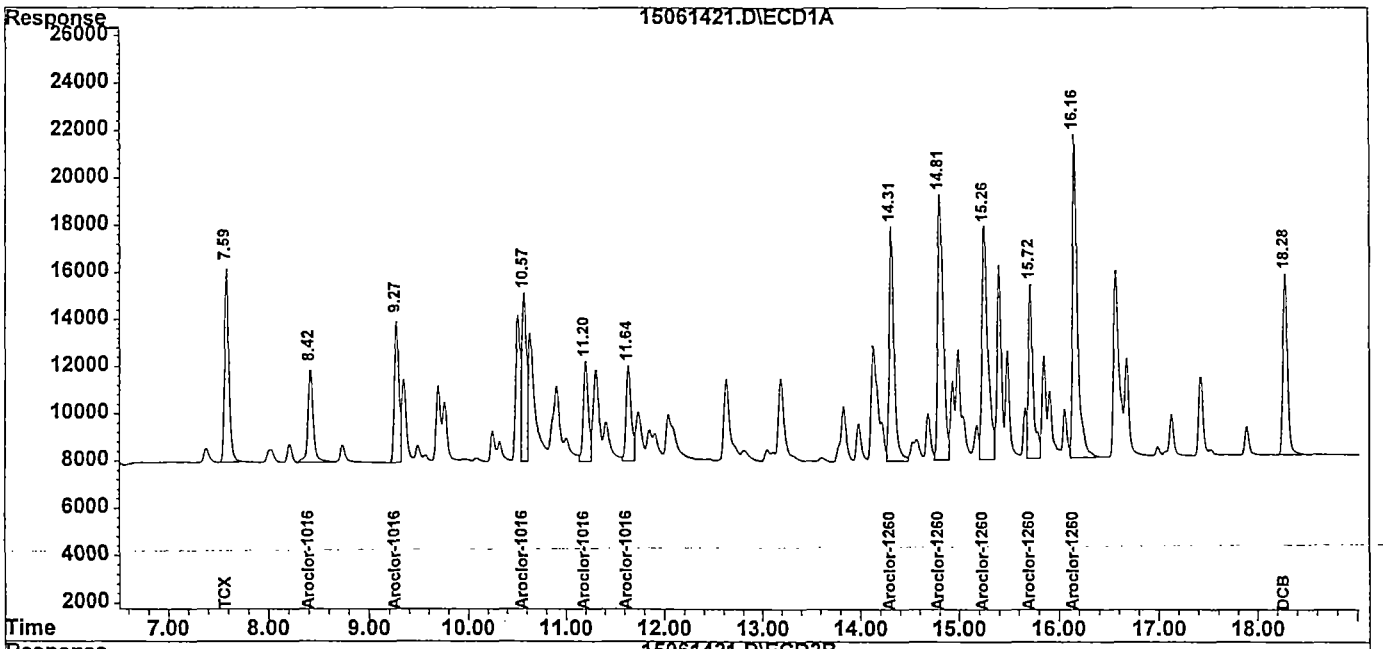
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

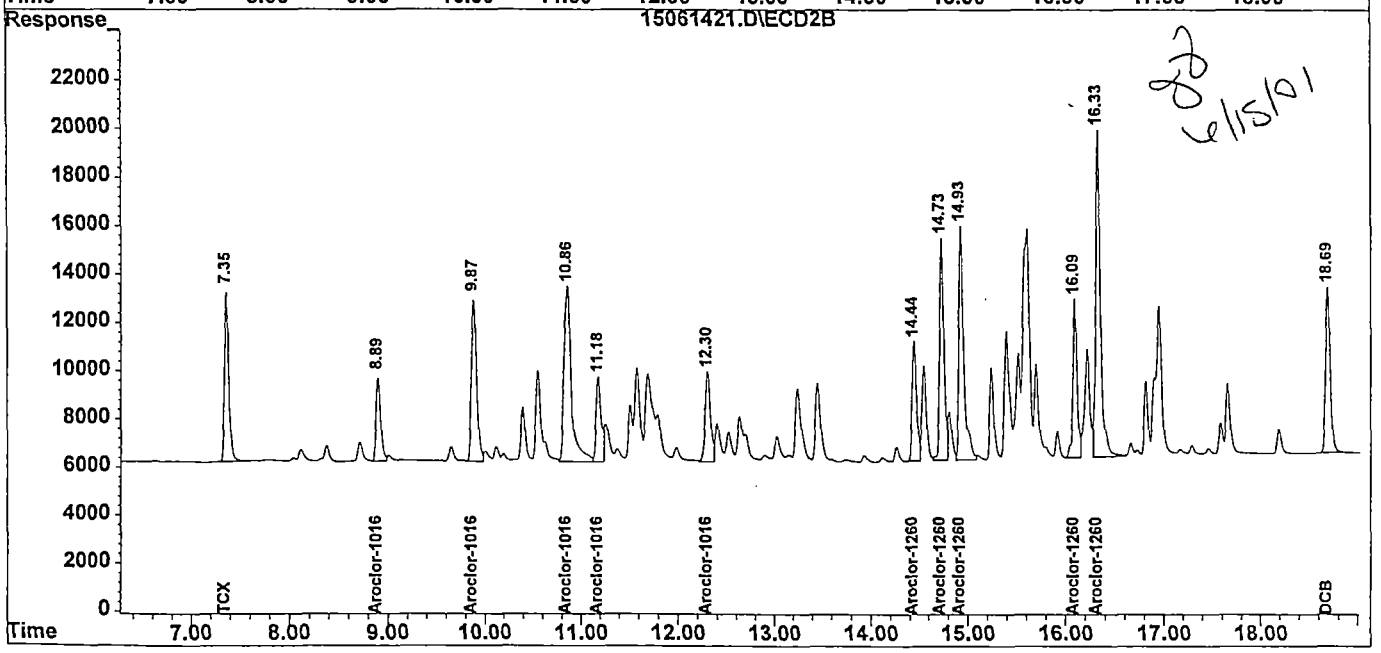
Chromatographic Report

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
4)	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
	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

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3055
Signature Beth M Williams
Date 06/19/01

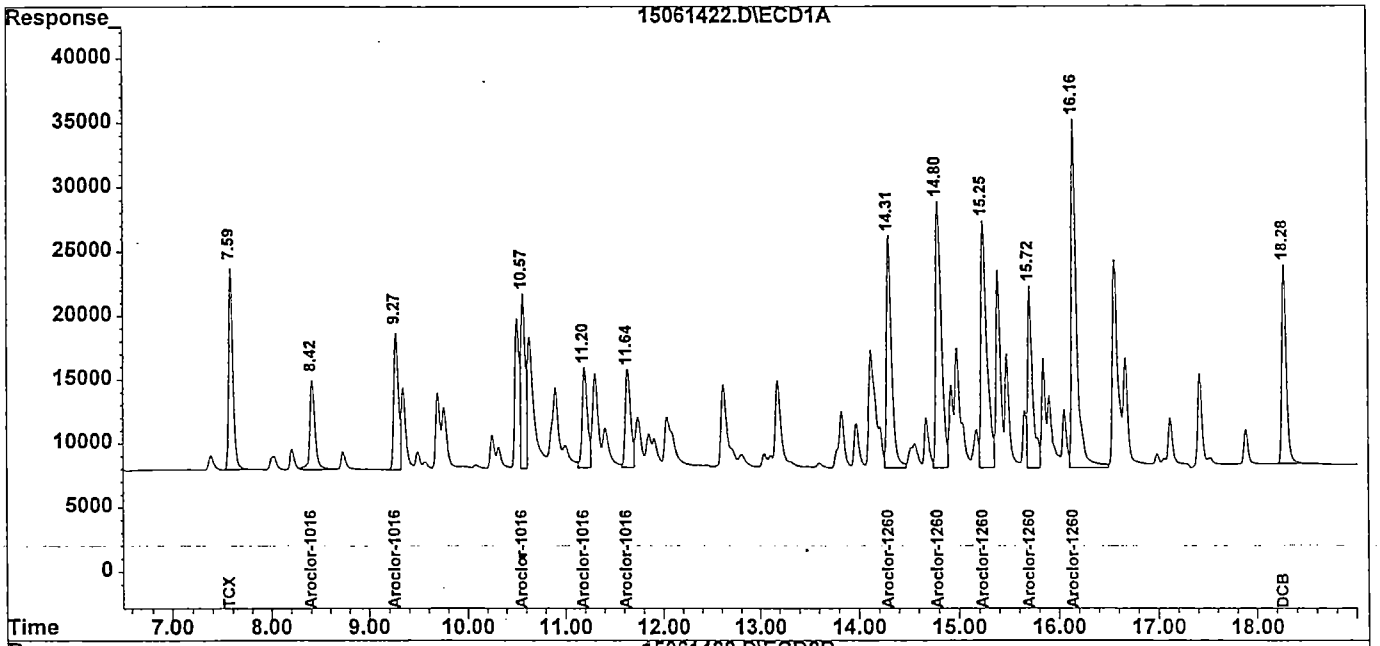
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

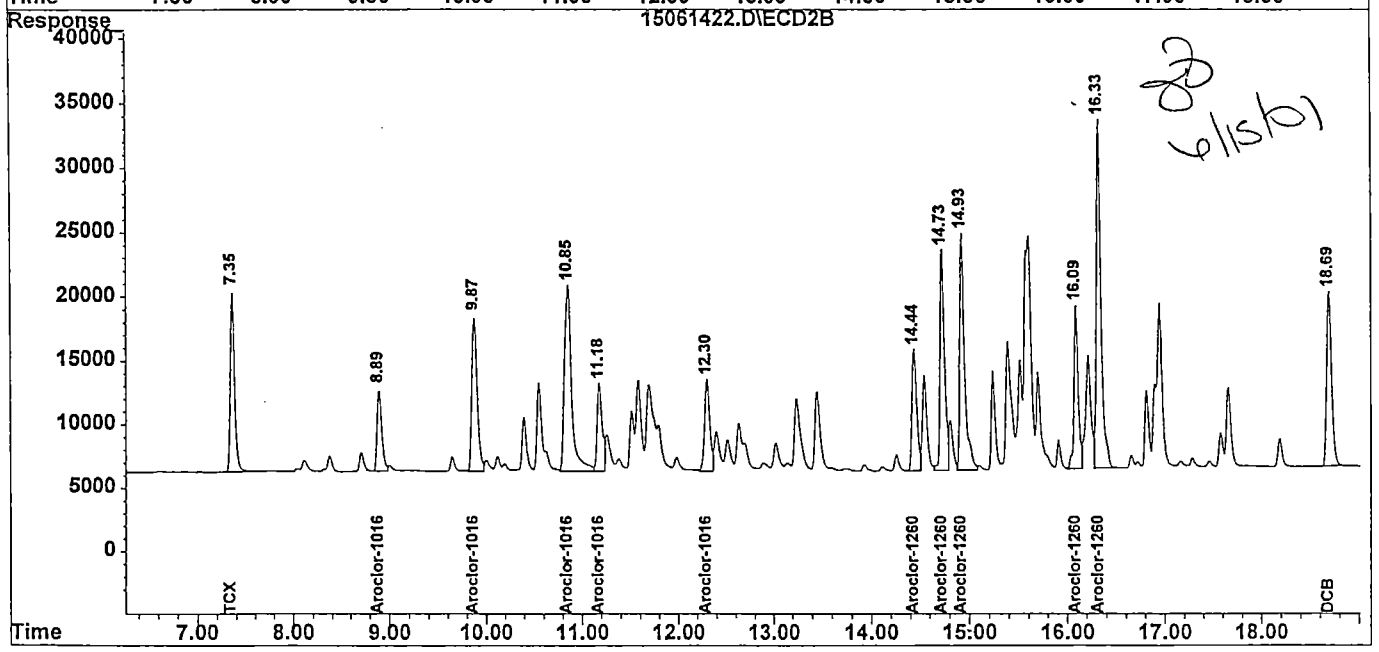
Chromatographic Report

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
4)	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
	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

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3065
Signature Brenda M. Williams
Date 06/19/01

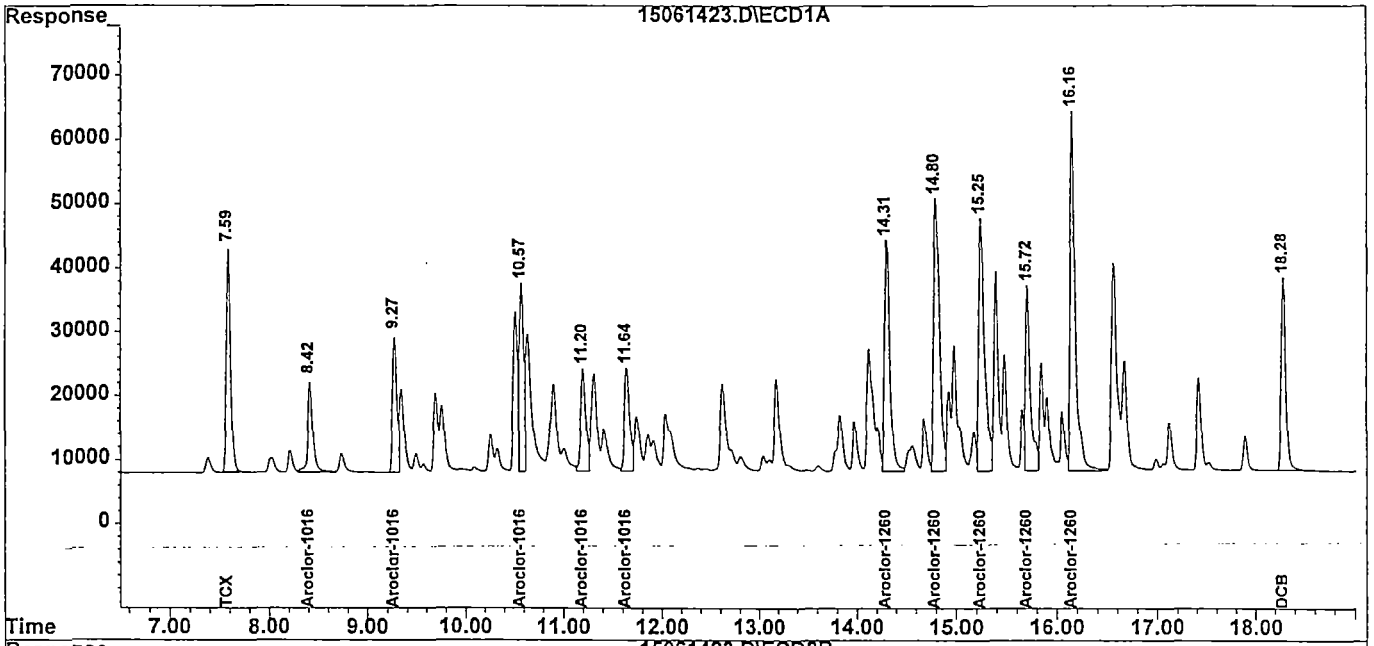
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

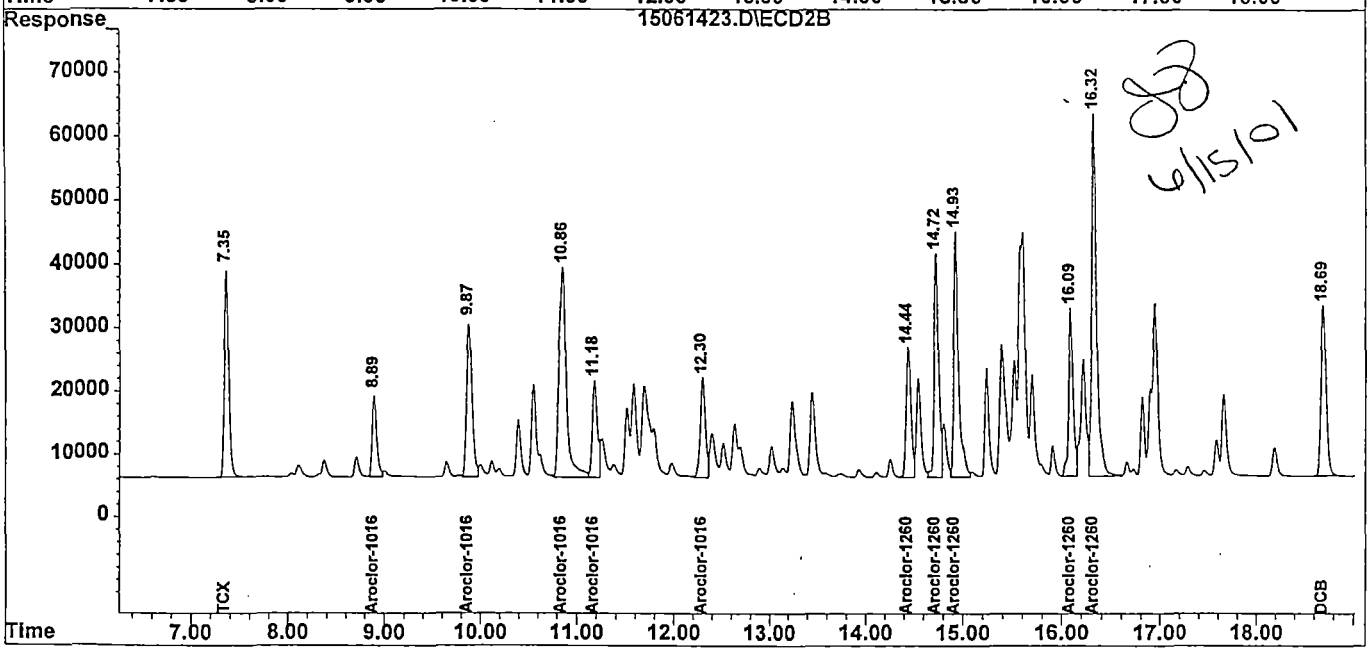
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\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





DB 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
4)	L1 Aroclor-1016 {3}	10.58	10.86	1661352	3124497	1587.7 E	1656.5 E
[illegible]	L1 Aroclor-1016 {4}	11.20	11.18	963599	989436	1399.2 E	1706.9 E
	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

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3065
Signature Linda M. Miller
Date 06/19/01

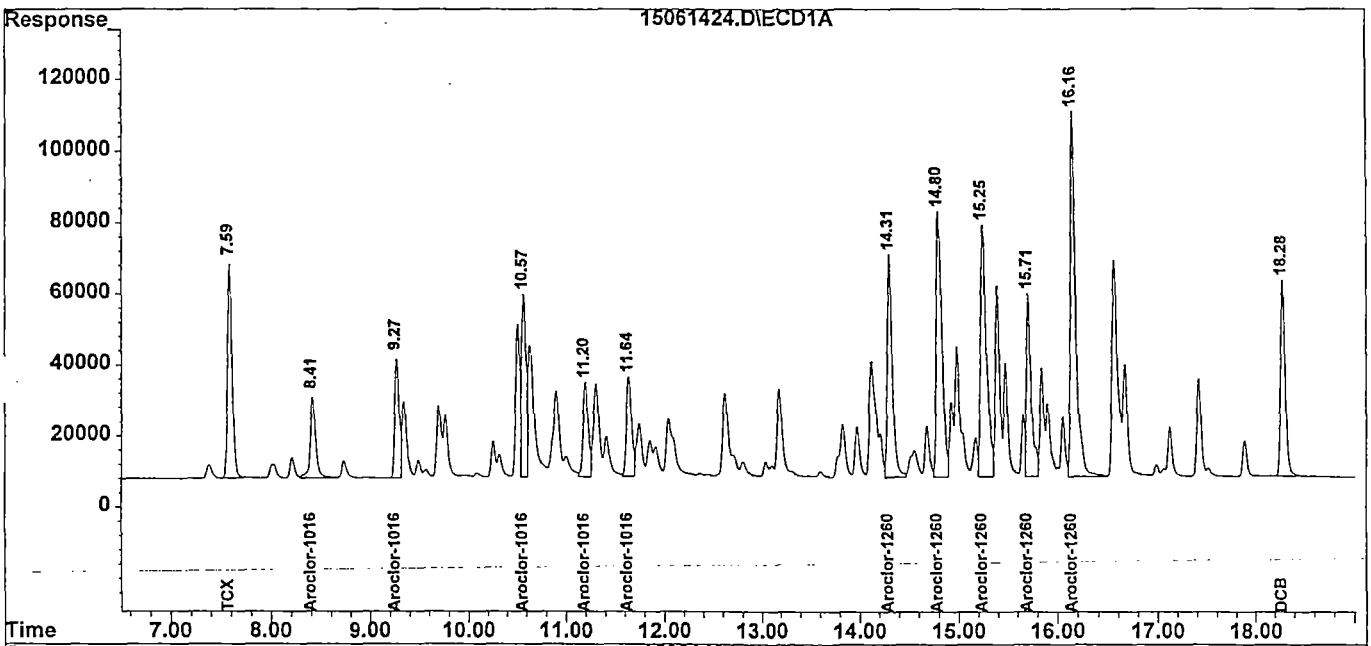
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

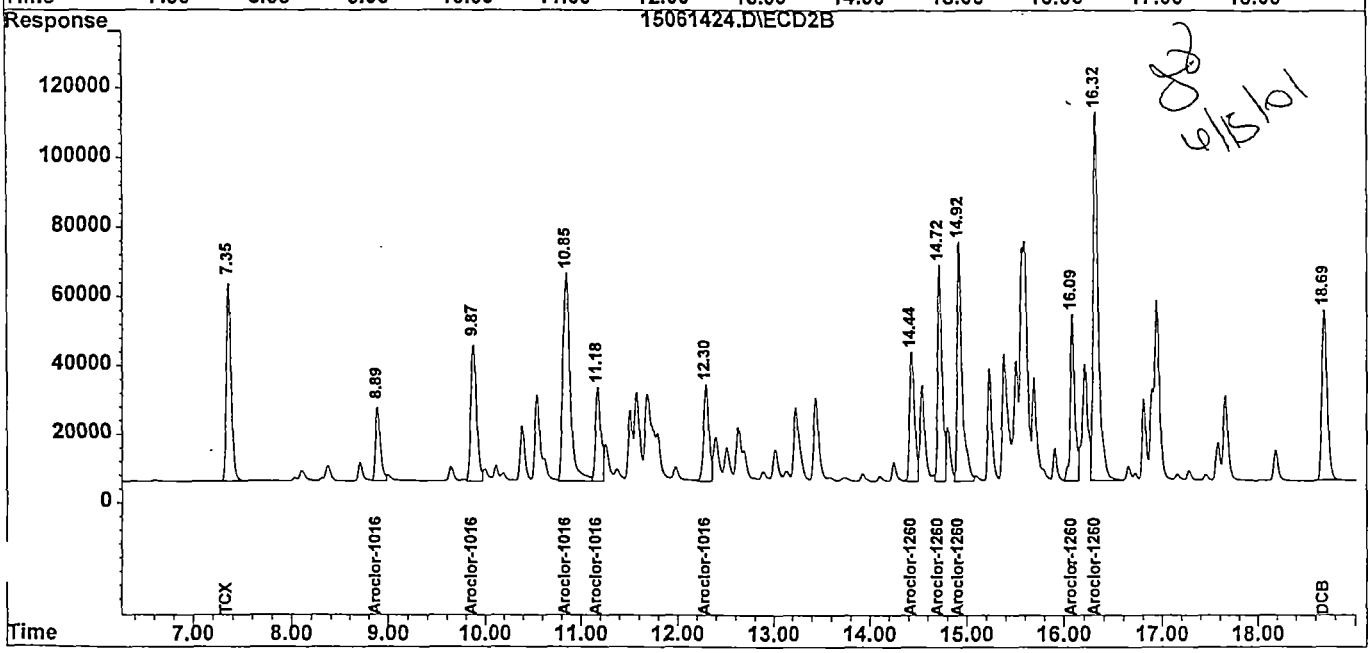
Chromatographic Report

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_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Fri Jun 15 11:23:25 2001
Response via : Initial Calibration

Continuing Calibration File: 15061445.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	26.940	E3	-7.4	112
2	L1	Aroclor-1016	660.269	712.439		-7.9	110
3	L1	Aroclor-1016 {2}	841.722	886.646		-5.3	108
4	L1	Aroclor-1016 {3}	1.130	1.230	E3	-8.8	111
5	L1	Aroclor-1016 {4}	721.143	722.658		-0.2	103
6	L1	Aroclor-1016 {5}	697.156	742.119		-6.4	109
17	L7	Aroclor-1260	1.627	1.696	E3	-4.3	107
18	L7	Aroclor-1260 {2}	2.187	2.314	E3	-5.8	108
19	L7	Aroclor-1260 {3}	2.086	2.171	E3	-4.1	106
20	L7	Aroclor-1260 {4}	1.191	1.207	E3	-1.3	100
21	L7	Aroclor-1260 {5}	2.370	2.455	E3	-3.6	102
22	S	DCB	25.914	27.743	E3	-7.1	106

Signal #2
Continuing Calibration File: 15061445.D

		Compound	AvgRF	CCRF		%Dev	Area%
	S	TCX	23.173	25.705	E3	-10.9	117
2	L1	Aroclor-1016	528.447	586.872		-11.1	114
3	L1	Aroclor-1016 {2}	1.242	1.361	E3	-9.6	113
4	L1	Aroclor-1016 {3}	1.999	2.205	E3	-10.3	115
5	L1	Aroclor-1016 {4}	632.145	697.077		-10.3	113
6	L1	Aroclor-1016 {5}	696.313	758.411		-8.9	112
17	L7	Aroclor-1260	860.037	925.904		-7.7	112
18	L7	Aroclor-1260 {2}	1.436	1.543	E3	-7.4	111
19	L7	Aroclor-1260 {3}	1.699	1.813	E3	-6.7	111
20	L7	Aroclor-1260 {4}	0.975	0.995	E3	-2.0	106
21	L7	Aroclor-1260 {5}	2.365	2.526	E3	-6.8	112
22	S	DCB	23.694	25.053	E3	-5.7	105

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

15061445.D XPCBF14.M Fri Jun 15 11:23:33 2001

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3065
Signature [signature]
Date 06/19/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061445.D\ECD1A.CH Vial: 45
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061445.D\ECD2B.CH
Acq On : 15 Jun 2001 10:56 Operator: DDC
Sample : AR1660L35W Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 11:23 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	538802	514104	21.5	22.2
22)	S DCB	18.28	18.69	554865	501070	21.4	21.1
	Target Compounds:						
2)	L1 Aroclor-1016	8.42	8.89	284976	234749	431.6	444.2
3)	L1 Aroclor-1016 {2}	9.28	9.88	354658	544212	421.3	438.3
4)	L1 Aroclor-1016 {3}	10.58	10.86	491813	881810	435.4	441.1
[illegible]	L1 Aroclor-1016 {4}	11.20	11.18	289063	278831	400.8	441.1
[illegible]	L1 Aroclor-1016 {5}	11.64	12.30	296848	303364	425.8	435.7
	Sum Aroclor-1016			1717358	2242966	2115.0	2200.4
	Average Aroclor-1016					422.996	440.083
17)	L7 Aroclor-1260	14.32	14.44	678584	370362	417.2	430.6
18)	L7 Aroclor-1260 {2}	14.81	14.73	925712	617168	423.2	429.7
19)	L7 Aroclor-1260 {3}	15.26	14.93	868441	725325	416.3	426.8
20)	L7 Aroclor-1260 {4}	15.72	16.10	482927	398124	405.4	408.2
21)	L7 Aroclor-1260 {5}	16.16	16.33	982014	1010523	414.4	427.4
	Sum Aroclor-1260			3937679	3121500	2076.5	2122.7
	Average Aroclor-1260					415.292	424.531

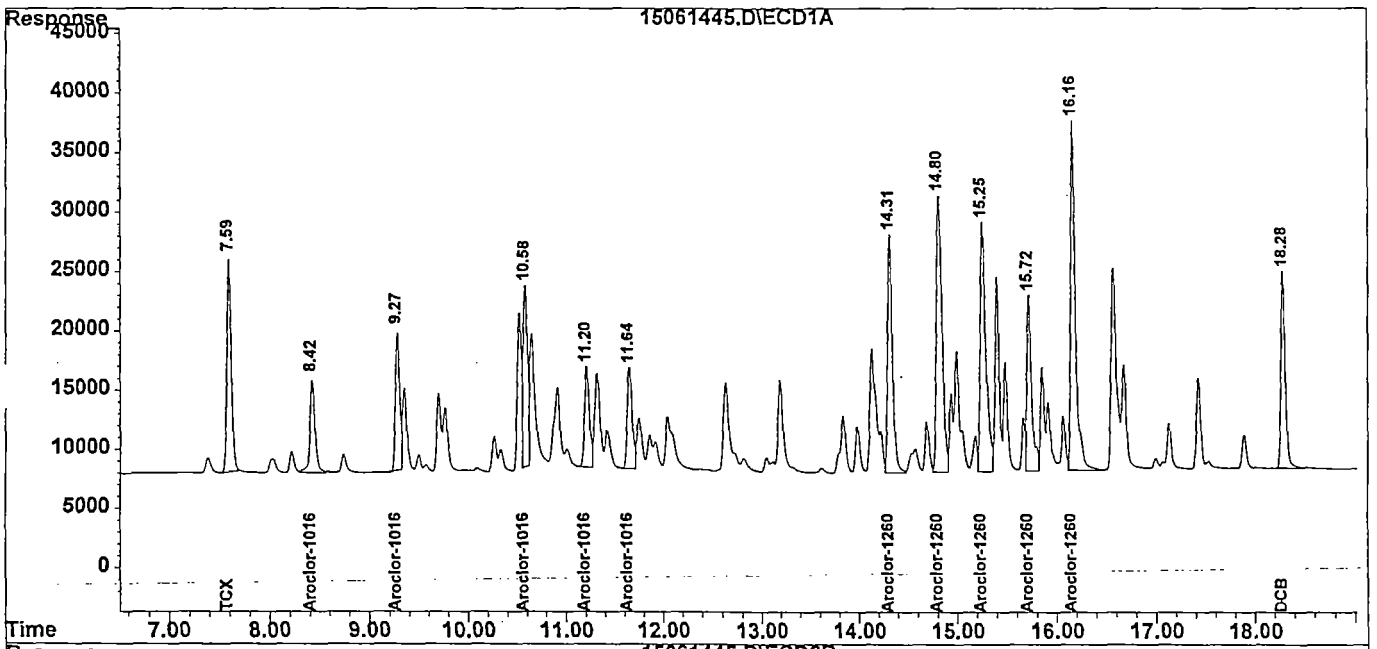
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

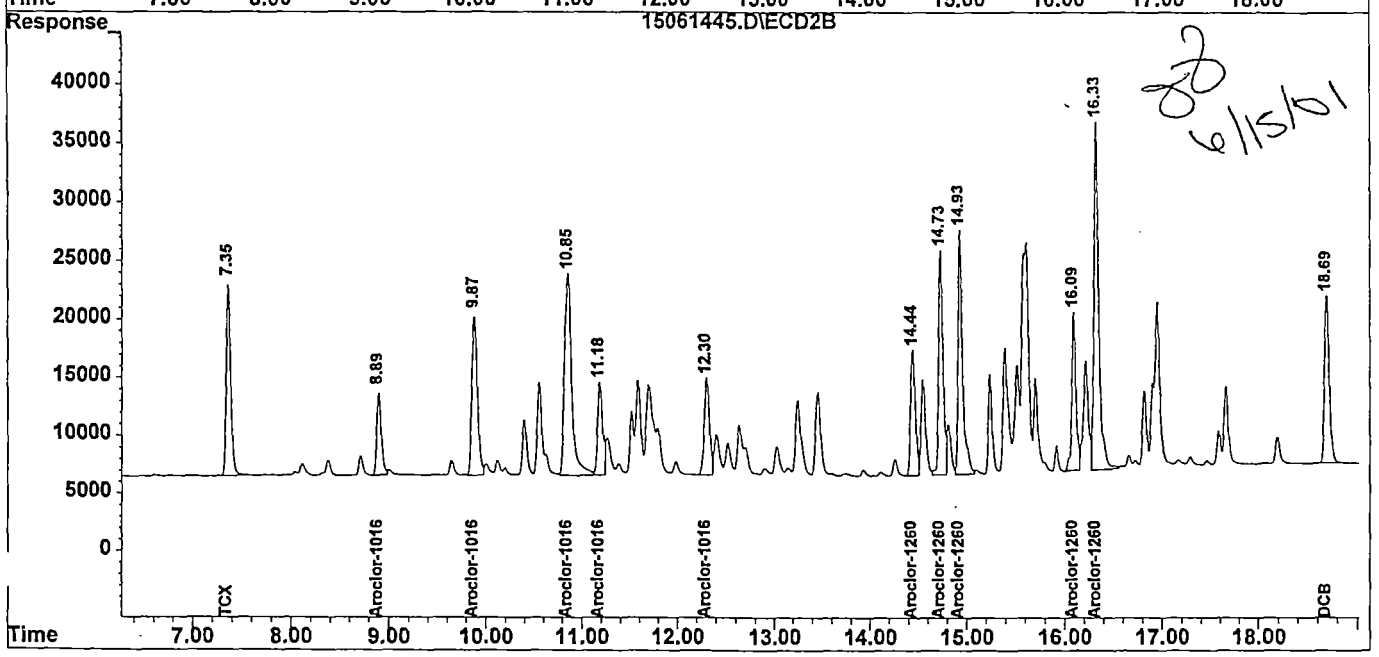
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061445.D\ECD1A.CH Vial: 45
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061445.D\ECD2B.CH
Acq On : 15 Jun 2001 10:56 Operator: DDC
Sample : AR1660L35W Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 11:23 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_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Sat Jun 16 10:10:02 2001
Response via : Initial Calibration

Continuing Calibration File: 15061459.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	26.414	E3	-5.3	110
2	L1	Aroclor-1016	660.269	710.642		-7.6	110
3	L1	Aroclor-1016 {2}	841.722	888.404		-5.5	108
4	L1	Aroclor-1016 {3}	1.130	1.226	E3	-8.5	111
5	L1	Aroclor-1016 {4}	721.143	728.014		-1.0	103
6	L1	Aroclor-1016 {5}	697.156	755.833		-8.4	111
17	L7	Aroclor-1260	1.627	1.805	E3	-10.9	114
18	L7	Aroclor-1260 {2}	2.187	2.486	E3	-13.6	116
19	L7	Aroclor-1260 {3}	2.086	2.378	E3	-14.0	116
20	L7	Aroclor-1260 {4}	1.191	1.334	E3	-12.0	110
21	L7	Aroclor-1260 {5}	2.370	2.706	E3	-14.2	112
22	S	DCB	25.914	28.843	E3	-11.3	110

Signal #2
Continuing Calibration File: 15061459.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	23.173	25.864	E3	-11.6	118
2	L1	Aroclor-1016	528.447	591.240		-11.9	115
3	L1	Aroclor-1016 {2}	1.242	1.380	E3	-11.2	115
4	L1	Aroclor-1016 {3}	1.999	2.265	E3	-13.3	118
5	L1	Aroclor-1016 {4}	632.145	722.026		-14.2	117
6	L1	Aroclor-1016 {5}	696.313	788.809		-13.3	117
17	L7	Aroclor-1260	860.037	989.603		-15.1#	120
18	L7	Aroclor-1260 {2}	1.436	1.644	E3	-14.5	118
19	L7	Aroclor-1260 {3}	1.699	1.946	E3	-14.5	119
20	L7	Aroclor-1260 {4}	0.975	1.077	E3	-10.5	114
21	L7	Aroclor-1260 {5}	2.365	2.740	E3	-15.9#	122
22	S	DCB	23.694	26.402	E3	-11.4	111

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

15061459.D XPCBF14.M Sat Jun 16 10:10:09 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061459.D\ECD1A.CH Vial: 59
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061459.D\ECD2B.CH
Acq On : 15 Jun 2001 16:22 Operator: DDC
Sample : AR1660L35Y Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 16 7:33 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	7.60	7.36	528284	517274	21.1	22.3
22)	S DCB	18.30	18.70	576852	528050	22.3	22.3
	Target Compounds:						
2)	L1 Aroclor-1016	8.43	8.90	284257	236496	430.5	447.5
3)	L1 Aroclor-1016 {2}	9.28	9.88	355361	552104	422.2	444.6
4)	L1 Aroclor-1016 {3}	10.59	10.87	490389	906114	434.1	453.3
5)	1 Aroclor-1016 {4}	11.21	11.19	291206	288810	403.8	456.9
6)	L1 Aroclor-1016 {5}	11.65	12.31	302333	315524	433.7	453.1
	Sum Aroclor-1016			1723546	2299048	2124.3	2255.5
	Average Aroclor-1016					424.861	451.097
17)	L7 Aroclor-1260	14.32	14.45	721885	395841	443.8	460.3
18)	L7 Aroclor-1260 {2}	14.81	14.74	994302	657561	454.6	457.8
19)	L7 Aroclor-1260 {3}	15.26	14.94	951159	778235	455.9	457.9
20)	L7 Aroclor-1260 {4}	15.73	16.10	533684	430985	448.0	441.9
21)	L7 Aroclor-1260 {5}	16.17	16.33	1082317	1096031	456.7	463.5
	Sum Aroclor-1260			4283347	3358655	2259.0	2281.4
	Average Aroclor-1260					451.804	456.279

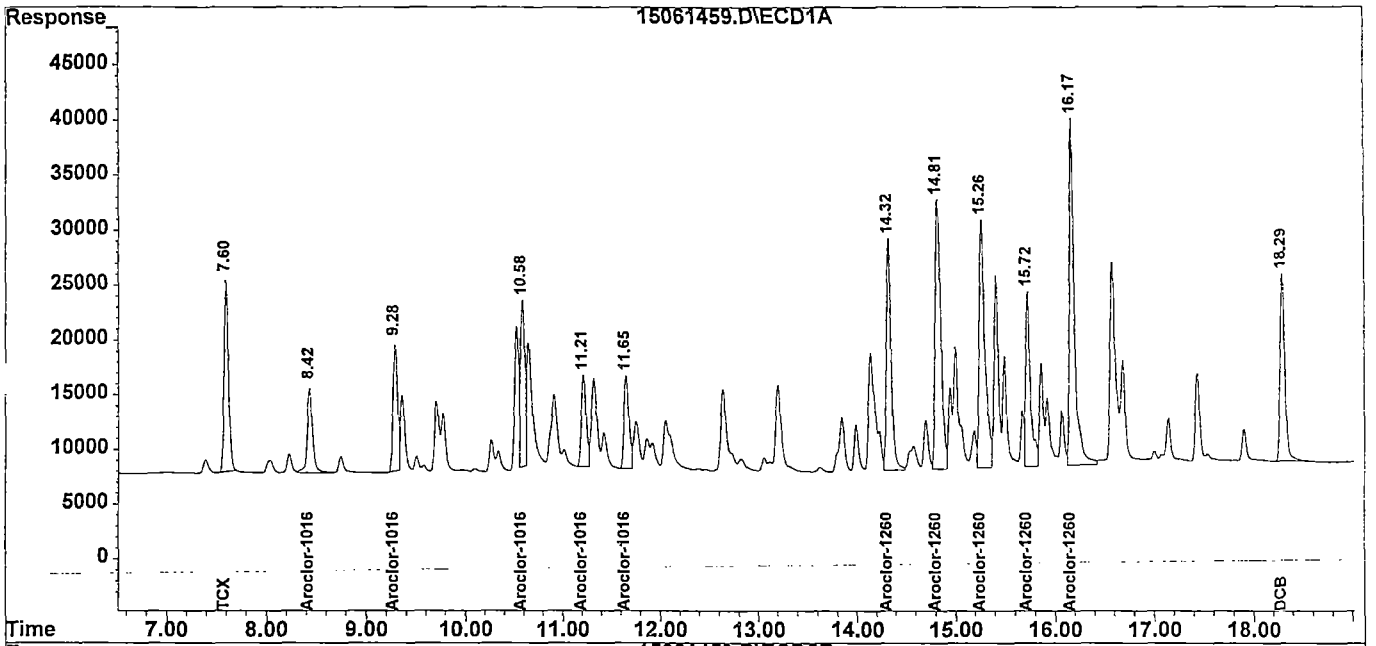
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

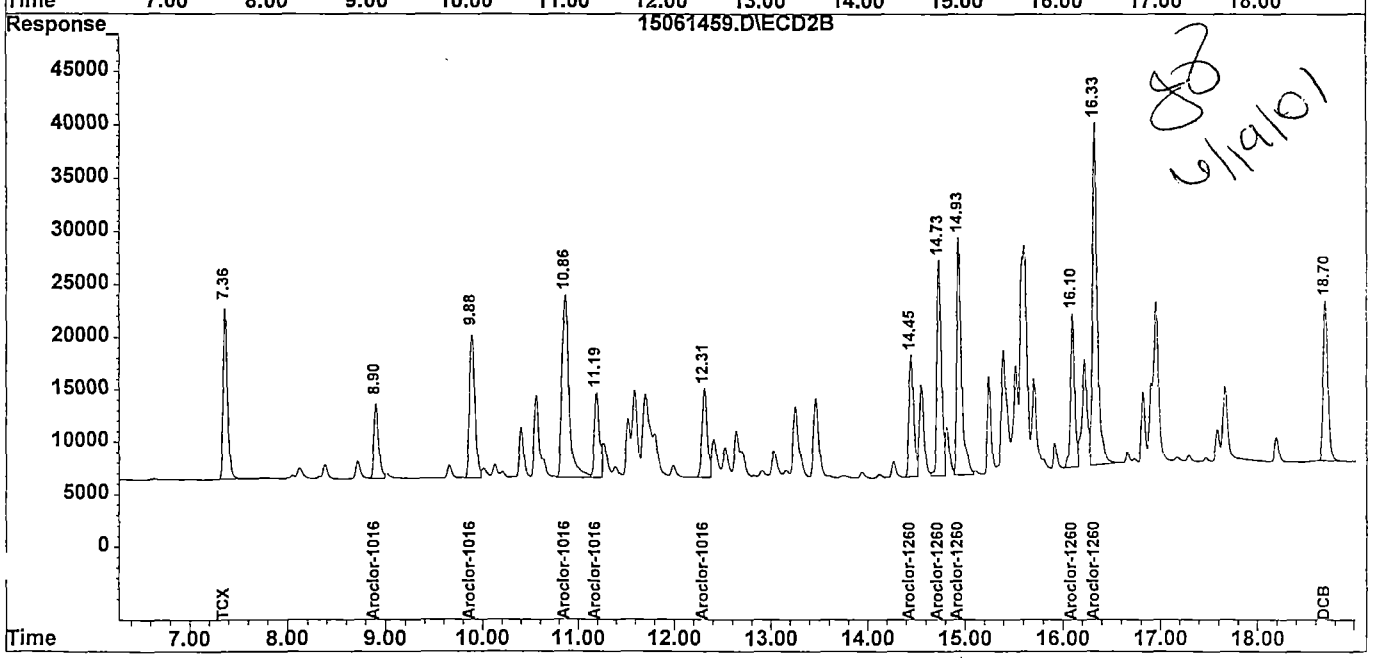
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061459.D\ECD1A.CH Vial: 59
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061459.D\ECD2B.CH
Acq On : 15 Jun 2001 16:22 Operator: DDC
Sample : AR1660L35Y Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 16 7:33 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





6/19/01

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Continuing Calibration 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 : Sat Jun 16 10:10:35 2001
Response via : Initial Calibration

Continuing Calibration File: 15061471.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	25.889	E3	-3.2	108
2	L1	Aroclor-1016	660.269	686.012		-3.9	106
3	L1	Aroclor-1016 {2}	841.722	863.955		-2.6	105
4	L1	Aroclor-1016 {3}	1.130	1.122	E3	0.7	102
5	L1	Aroclor-1016 {4}	721.143	681.762		5.5	97
6	L1	Aroclor-1016 {5}	697.156	696.055		0.2	102
17	L7	Aroclor-1260	1.627	1.649	E3	-1.4	104
18	L7	Aroclor-1260 {2}	2.187	2.237	E3	-2.3	105
19	L7	Aroclor-1260 {3}	2.086	2.106	E3	-1.0	103
20	L7	Aroclor-1260 {4}	1.191	1.192	E3	-0.0	98
21	L7	Aroclor-1260 {5}	2.370	2.364	E3	0.3	98
22	S	DCB	25.914	25.336	E3	2.2	97

Signal #2
Continuing Calibration File: 15061471.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	23.173	25.798	E3	-11.3	117
2	L1	Aroclor-1016	528.447	581.345		-10.0	113
3	L1	Aroclor-1016 {2}	1.242	1.358	E3	-9.4	113
4	L1	Aroclor-1016 {3}	1.999	2.133	E3	-6.7	111
5	L1	Aroclor-1016 {4}	632.145	671.185		-6.2	109
6	L1	Aroclor-1016 {5}	696.313	738.752		-6.1	109
17	L7	Aroclor-1260	860.037	905.952		-5.3	110
18	L7	Aroclor-1260 {2}	1.436	1.515	E3	-5.5	109
19	L7	Aroclor-1260 {3}	1.699	1.781	E3	-4.8	109
20	L7	Aroclor-1260 {4}	0.975	0.968	E3	0.7	103
21	L7	Aroclor-1260 {5}	2.365	2.393	E3	-1.2	106
22	S	DCB	23.694	23.449	E3	1.0	98

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

15061471.D XPCBF14.M Sat Jun 16 10:10:42 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061471.D\ECD1A.CH Vial: 71
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061471.D\ECD2B.CH
Acq On : 15 Jun 2001 21:01 Operator: DDC
Sample : AR1660L3A5 Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 16 7:45 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	7.60	7.36	517772	515964	20.6	22.3
22)	S DCB	18.29	18.70	506719	468982	19.6	19.8
	Target Compounds:						
2)	L1 Aroclor-1016	8.42	8.90	274405	232538	415.6	440.0
3)	L1 Aroclor-1016 {2}	9.28	9.88	345582	543157	410.6	437.4
4)	L1 Aroclor-1016 {3}	10.58	10.86	448638	853261	397.2	426.9
5)	L1 Aroclor-1016 {4}	11.21	11.19	272705	268474	378.2	424.7
6)	L1 Aroclor-1016 {5}	11.65	12.31	278422	295501	399.4	424.4
	Sum Aroclor-1016			1619752	2192930	2000.9	2153.4
	Average Aroclor-1016					400.170	430.684
17)	L7 Aroclor-1260	14.32	14.45	659676	362381	405.6	421.4
18)	L7 Aroclor-1260 {2}	14.81	14.73	894839	605828	409.1	421.8
19)	L7 Aroclor-1260 {3}	15.26	14.93	842426	712413	403.8	419.2
20)	L7 Aroclor-1260 {4}	15.72	16.10	476711	387321	400.2	397.1
21)	L7 Aroclor-1260 {5}	16.17	16.33	945515	957368	399.0	404.9
	Sum Aroclor-1260			3819167	3025311	2017.6	2064.3
	Average Aroclor-1260					403.526	412.866

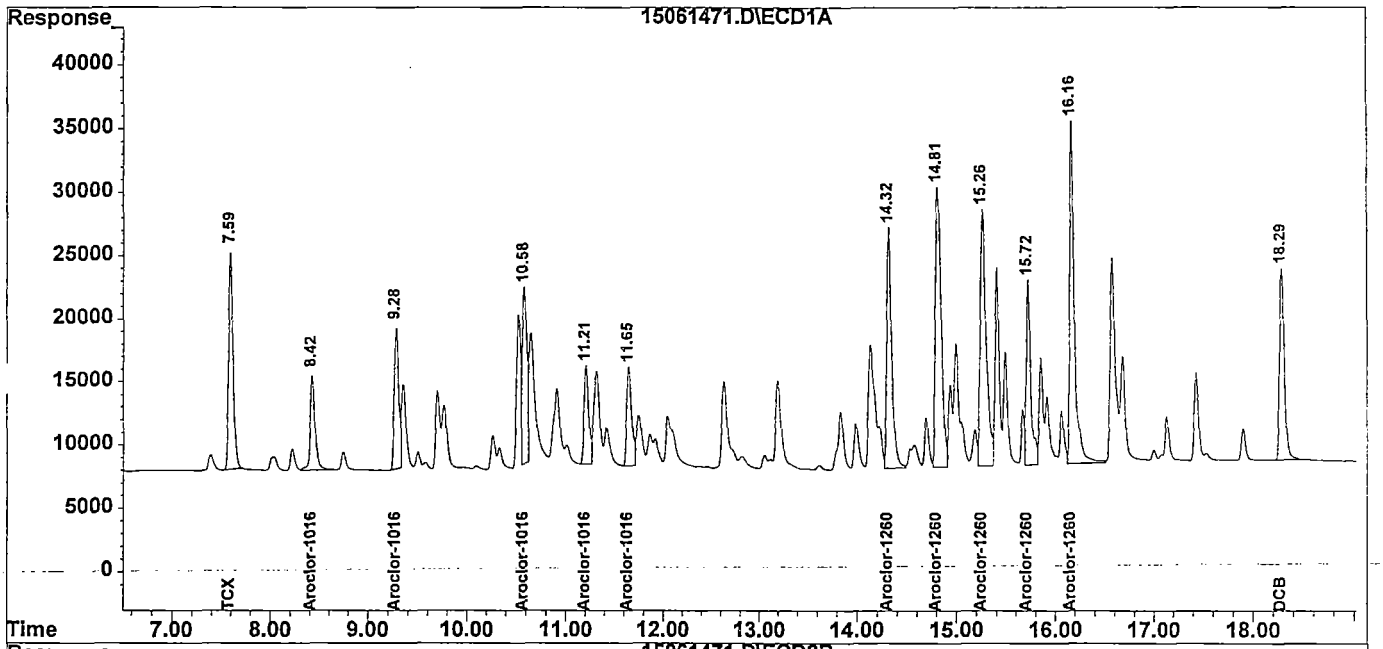
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

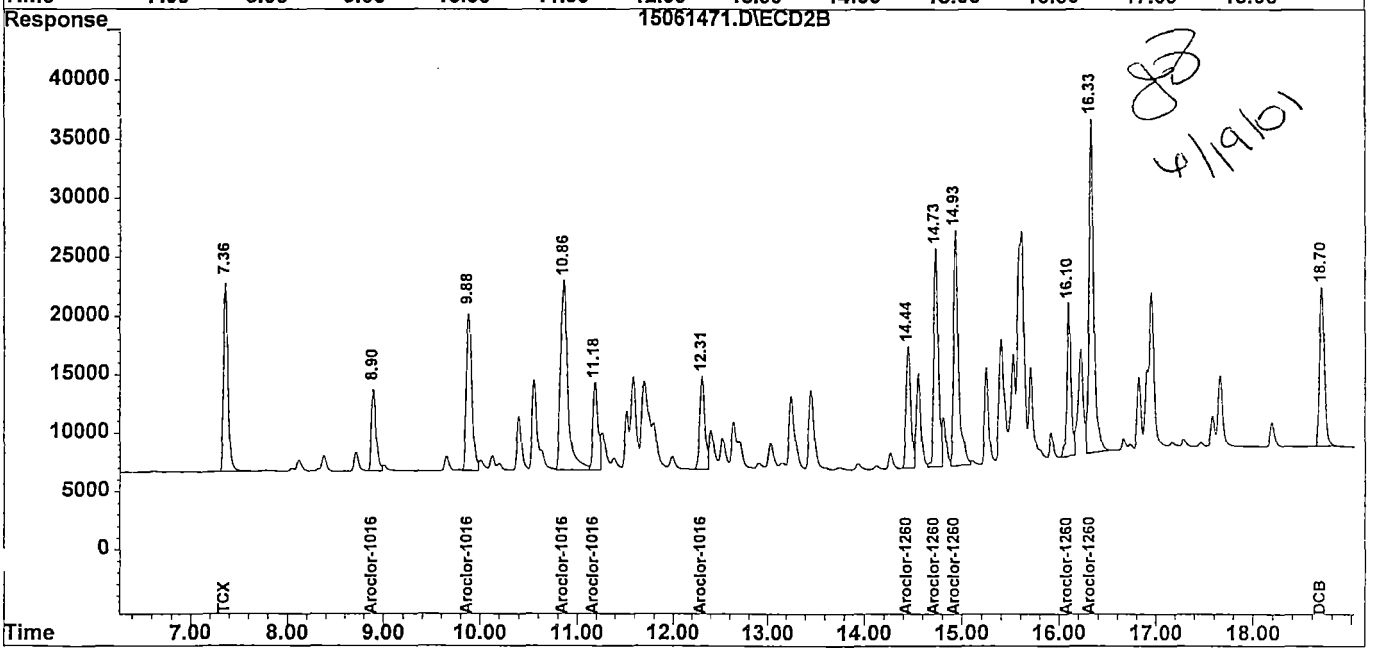
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061471.D\ECD1A.CH Vial: 71
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061471.D\ECD2B.CH
Acq On : 15 Jun 2001 21:01 Operator: DDC
Sample : AR1660L3A5 Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 16 7:45 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





6/19/01

Continuing Calibration 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 : Sun Jun 17 08:56:07 2001
Response via : Initial Calibration

Continuing Calibration File: 15061507.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	27.774	E3	-10.7	116
2	L1	Aroclor-1016	660.269	722.227		-9.4	112
3	L1	Aroclor-1016 {2}	841.722	892.486		-6.0	109
4	L1	Aroclor-1016 {3}	1.130	1.207	E3	-6.8	109
5	L1	Aroclor-1016 {4}	721.143	729.563		-1.2	103
6	L1	Aroclor-1016 {5}	697.156	751.112		-7.7	110
17	L7	Aroclor-1260	1.627	1.832	E3	-12.6	115
18	L7	Aroclor-1260 {2}	2.187	2.489	E3	-13.8	117
19	L7	Aroclor-1260 {3}	2.086	2.378	E3	-14.0	116
20	L7	Aroclor-1260 {4}	1.191	1.363	E3	-14.4	113
21	L7	Aroclor-1260 {5}	2.370	2.746	E3	-15.9#	114
22	S	DCB	25.914	28.622	E3	-10.4	110

Signal #2
Continuing Calibration File: 15061507.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	23.173	27.436	E3	-18.4#	125
2	L1	Aroclor-1016	528.447	621.076		-17.5#	121
3	L1	Aroclor-1016 {2}	1.242	1.427	E3	-14.9	118
4	L1	Aroclor-1016 {3}	1.999	2.245	E3	-12.3	117
5	L1	Aroclor-1016 {4}	632.145	677.676		-7.2	110
6	L1	Aroclor-1016 {5}	696.313	812.388		-16.7#	120
17	L7	Aroclor-1260	860.037	986.270		-14.7	119
18	L7	Aroclor-1260 {2}	1.436	1.610	E3	-12.1	116
19	L7	Aroclor-1260 {3}	1.699	1.905	E3	-12.1	117
20	L7	Aroclor-1260 {4}	0.975	1.136	E3	-16.5#	120
21	L7	Aroclor-1260 {5}	2.365	2.768	E3	-17.0#	123
22	S	DCB	23.694	27.221	E3	-14.9	114

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

15061507.D XPCBF14.M Sun Jun 17 08:56:13 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061507.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061507.D\ECD2B.CH
Acq On : 16 Jun 2001 10:56 Operator: DDC
Sample : AR1660L3G5 Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 17 8:56 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	555473	548715	22.1	23.7
22)	S DCB	18.29	18.69	572434	544418	22.1	23.0
	Target Compounds:						
2)	L1 Aroclor-1016	8.42	8.89	288891	248430	437.5	470.1
3)	L1 Aroclor-1016 {2}	9.28	9.88	356994	570739	424.1	459.6
4)	L1 Aroclor-1016 {3}	10.58	10.86	482709	898176	427.3	449.3
5)	1 Aroclor-1016 {4}	11.20	11.18	291825	271070	404.7	428.8
6)	1 Aroclor-1016 {5}	11.65	12.30	300445	324955	431.0	466.7
	Sum Aroclor-1016			1720864	2313370	2124.6	2274.6
	Average Aroclor-1016					424.923	454.917
17)	L7 Aroclor-1260	14.32	14.44	732602	394508	450.4	458.7
18)	L7 Aroclor-1260 {2}	14.81	14.73	995553	644028	455.2	448.4
19)	L7 Aroclor-1260 {3}	15.26	14.93	951193	761867	456.0	448.3
20)	L7 Aroclor-1260 {4}	15.72	16.10	545308	454350	457.8	465.8
21)	L7 Aroclor-1260 {5}	16.16	16.33	1098497	1107026	463.5	468.2
	Sum Aroclor-1260			4323153	3361780	2282.8	2289.4
	Average Aroclor-1260					456.556	457.879

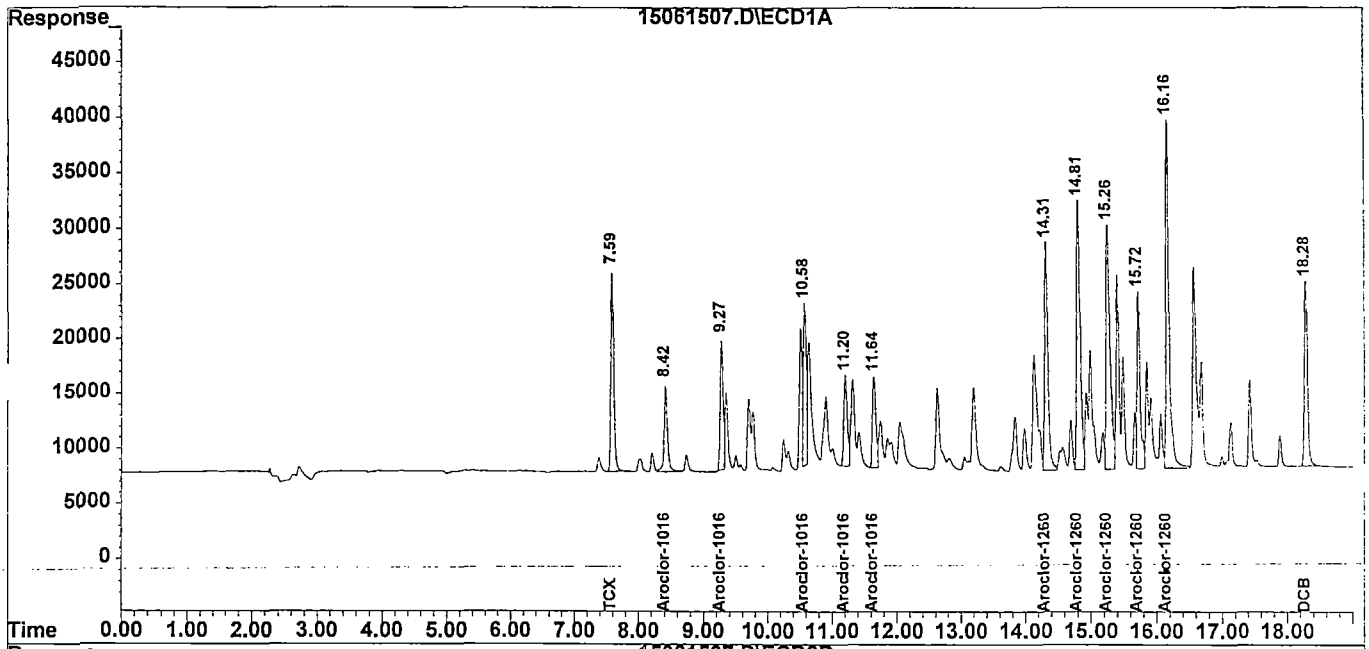
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

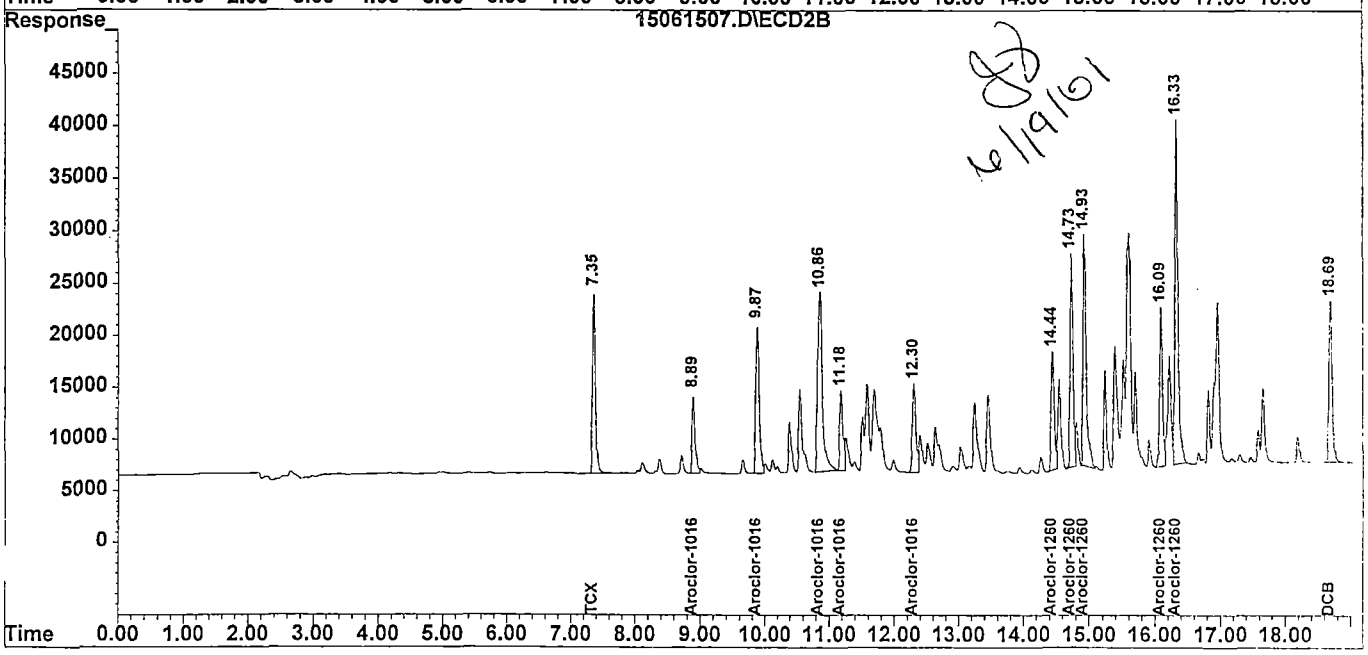
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061507.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061507.D\ECD2B.CH
Acq On : 16 Jun 2001 10:56 Operator: DDC
Sample : AR1660L3G5 Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 17 8:56 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





6/19/01

Continuing Calibration 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 : Sun Jun 17 08:59:04 2001
Response via : Initial Calibration

Continuing Calibration File: 15061537.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	28.299	E3	-12.8	118
2	L1	Aroclor-1016	660.269	724.714		-9.8	112
3	L1	Aroclor-1016 {2}	841.722	922.864		-9.6	112
4	L1	Aroclor-1016 {3}	1.130	1.226	E3	-8.5	111
5	L1	Aroclor-1016 {4}	721.143	732.872		-1.6	104
6	L1	Aroclor-1016 {5}	697.156	753.667		-8.1	110
17	L7	Aroclor-1260	1.627	1.794	E3	-10.3	113
18	L7	Aroclor-1260 {2}	2.187	2.442	E3	-11.6	114
19	L7	Aroclor-1260 {3}	2.086	2.313	E3	-10.9	113
20	L7	Aroclor-1260 {4}	1.191	1.309	E3	-9.9	108
21	L7	Aroclor-1260 {5}	2.370	2.675	E3	-12.9	111
22	S	DCB	25.914	29.052	E3	-12.1	111

Signal #2
Continuing Calibration File: 15061537.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	23.173	24.079	E3	-3.9	110
2	L1	Aroclor-1016	528.447	569.492		-7.8	111
3	L1	Aroclor-1016 {2}	1.242	1.272	E3	-2.5	106
4	L1	Aroclor-1016 {3}	1.999	2.056	E3	-2.9	107
5	L1	Aroclor-1016 {4}	632.145	616.977		2.4	100
6	L1	Aroclor-1016 {5}	696.313	715.276		-2.7	106
17	L7	Aroclor-1260	860.037	853.402		0.8	103
18	L7	Aroclor-1260 {2}	1.436	1.382	E3	3.8	99
19	L7	Aroclor-1260 {3}	1.699	1.629	E3	4.2	100
20	L7	Aroclor-1260 {4}	0.975	0.952	E3	2.4	101
21	L7	Aroclor-1260 {5}	2.365	2.321	E3	1.8	103
22	S	DCB	23.694	23.324	E3	1.6	98

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

15061537.D XPCBF14.M Sun Jun 17 08:59:10 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061537.D\ECD1A.CH Vial: 37
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061537.D\ECD2B.CH
Acq On : 16 Jun 2001 22:34 Operator: DDC
Sample : AR1660L3K5 Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 17 8:59 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	565986	481585	22.6	20.8
22)	S DCB	18.28	18.69	581042	466489	22.4	19.7
	Target Compounds:						
2)	L1 Aroclor-1016	8.42	8.89	289886	227797	439.0	431.1
3)	L1 Aroclor-1016 {2}	9.27	9.87	369146	508993	438.6	409.9
4)	L1 Aroclor-1016 {3}	10.58	10.86	490247	822406	434.0	411.4
5)	L1 Aroclor-1016 {4}	11.20	11.18	293149	246791	406.5	390.4
6)	L1 Aroclor-1016 {5}	11.64	12.30	301467	286110	432.4	410.9
	Sum Aroclor-1016			1743894	2092097	2150.5	2053.7
	Average Aroclor-1016					430.106	410.743
17)	L7 Aroclor-1260	14.32	14.44	717477	341361	441.1	396.9
18)	L7 Aroclor-1260 {2}	14.81	14.73	976776	552714	446.6	384.8
19)	L7 Aroclor-1260 {3}	15.26	14.93	925323	651476	443.6	383.3
20)	L7 Aroclor-1260 {4}	15.72	16.09	523769	380789	439.7	390.4
21)	L7 Aroclor-1260 {5}	16.16	16.33	1070012	928483	451.5	392.7
	Sum Aroclor-1260			4213357	2854823	2222.4	1948.1
	Average Aroclor-1260					444.480	389.628

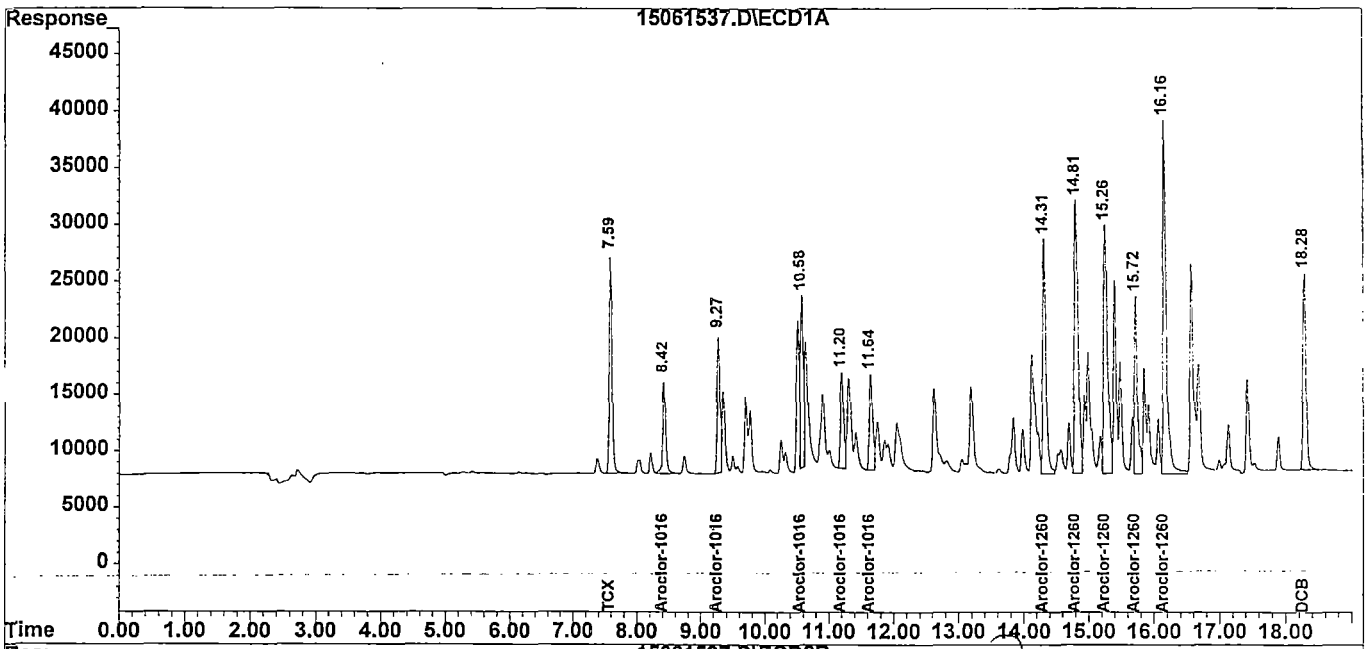
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

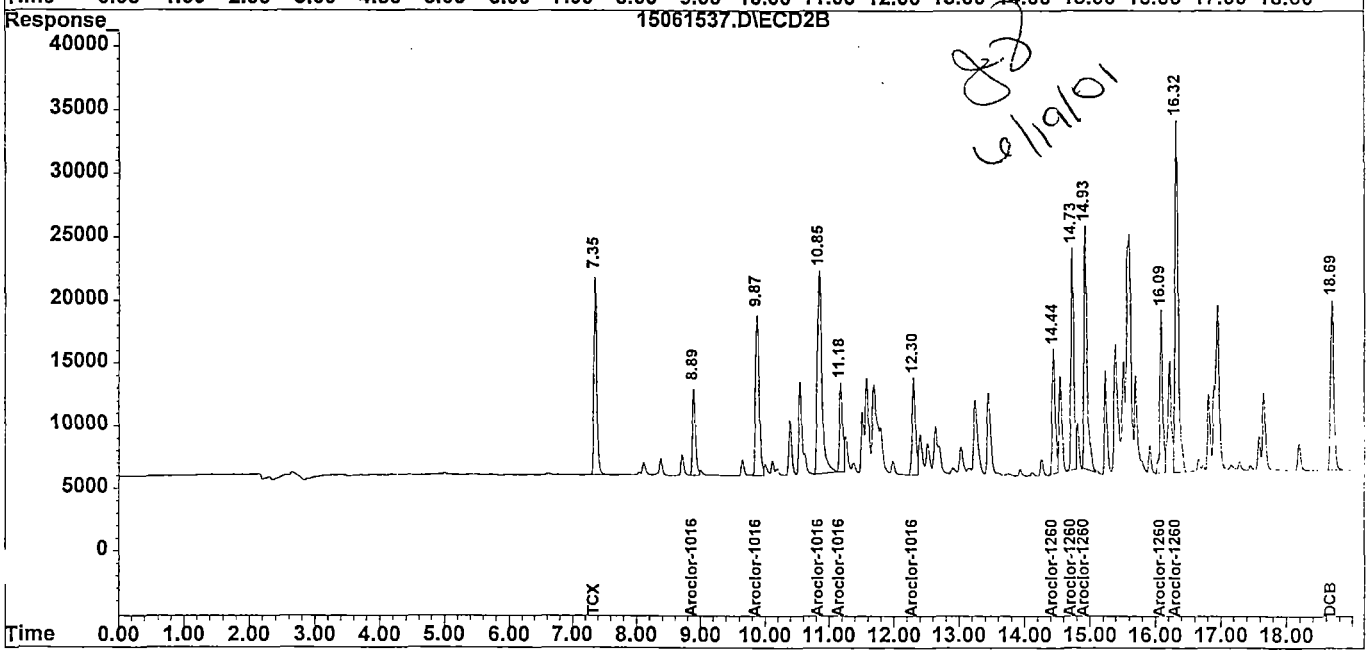
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061537.D\ECD1A.CH Vial: 37
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061537.D\ECD2B.CH
Acq On : 16 Jun 2001 22:34 Operator: DDC
Sample : AR1660L3K5 Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 17 8:59 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





6/19/01

316

HYDROGEN USED AS CARRIER GAS FOR SAMPLE ANALYSES

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PBLKSF

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Matrix: (soil/water) SOIL Lab Sample ID: BL0607SF

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

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/07/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/13/01

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	

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061281.D\ECD1A.CH Vial: 81
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061281.D\ECD2B.CH
Acq On : 13 Jun 2001 19:28 Operator: DDC
Sample : BL0607SF *PBLKSF * Inst : HP_15
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 14 10:14 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.61	7.37	315571	296615	4.560	5.650
	Spiked Amount 6.667			Recovery	=	68.40%	84.75%
22)	S DCB	18.30	18.70	109272	99674	2.647	3.247
	Spiked Amount 6.667			Recovery	=	39.71%	48.71%

Target Compounds:

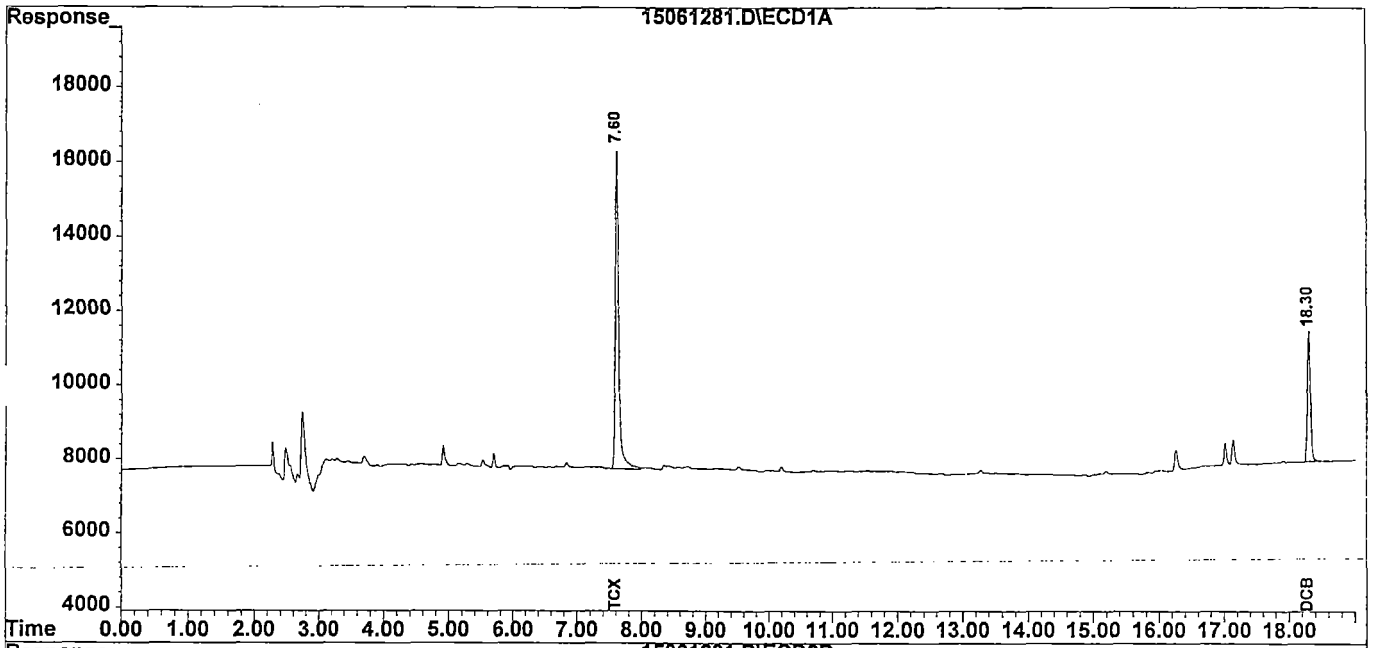
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

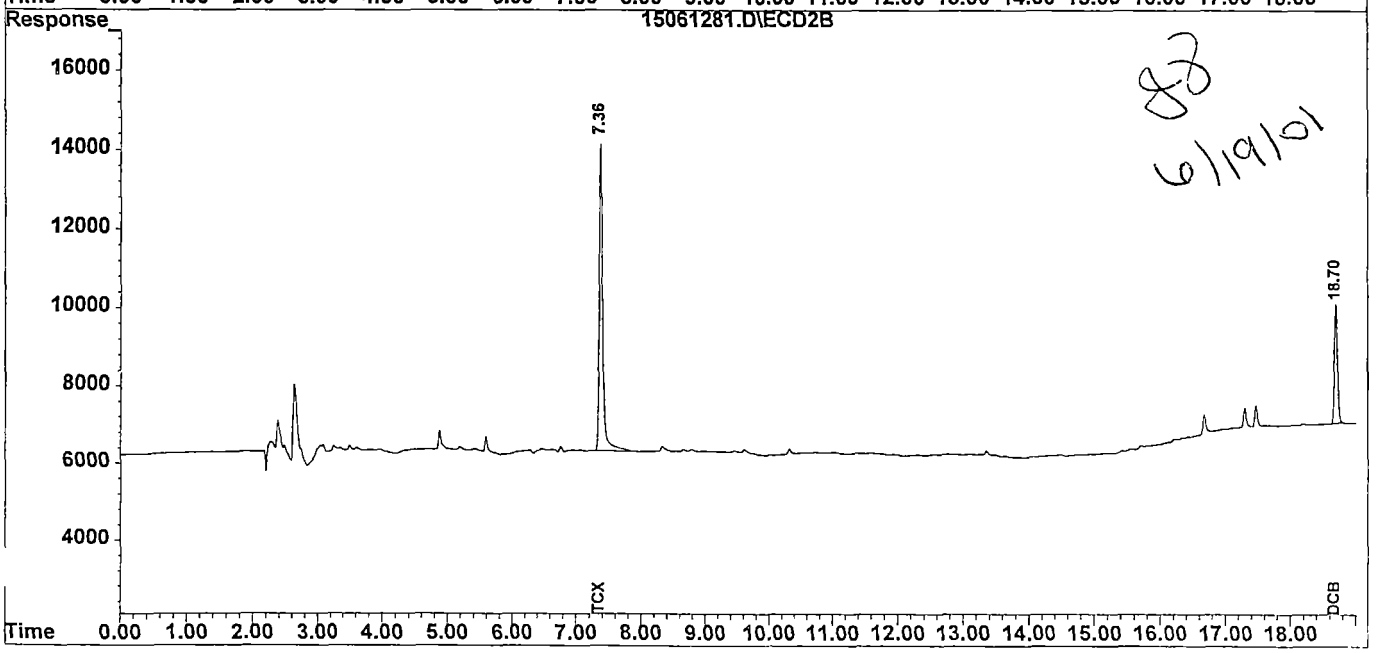
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061281.D\ECD1A.CH Vial: 81
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061281.D\ECD2B.CH
Acq On : 13 Jun 2001 19:28 Operator: DDC
Sample : BL0607SF *PBLKSF * Inst : HP_15
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 14 10:14 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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





8
6/19/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK5G

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

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: 06/12/01

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.: E00E6

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: 06/12/01

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

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061225.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061225.D\ECD2B.CH
Acq On : 12 Jun 2001 21:44 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 13 9:42 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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	7.60	7.36	441635	337848	19.1	19.3
22)	S DCB	18.30	18.70	216535	162259	15.7	15.9

Target Compounds:

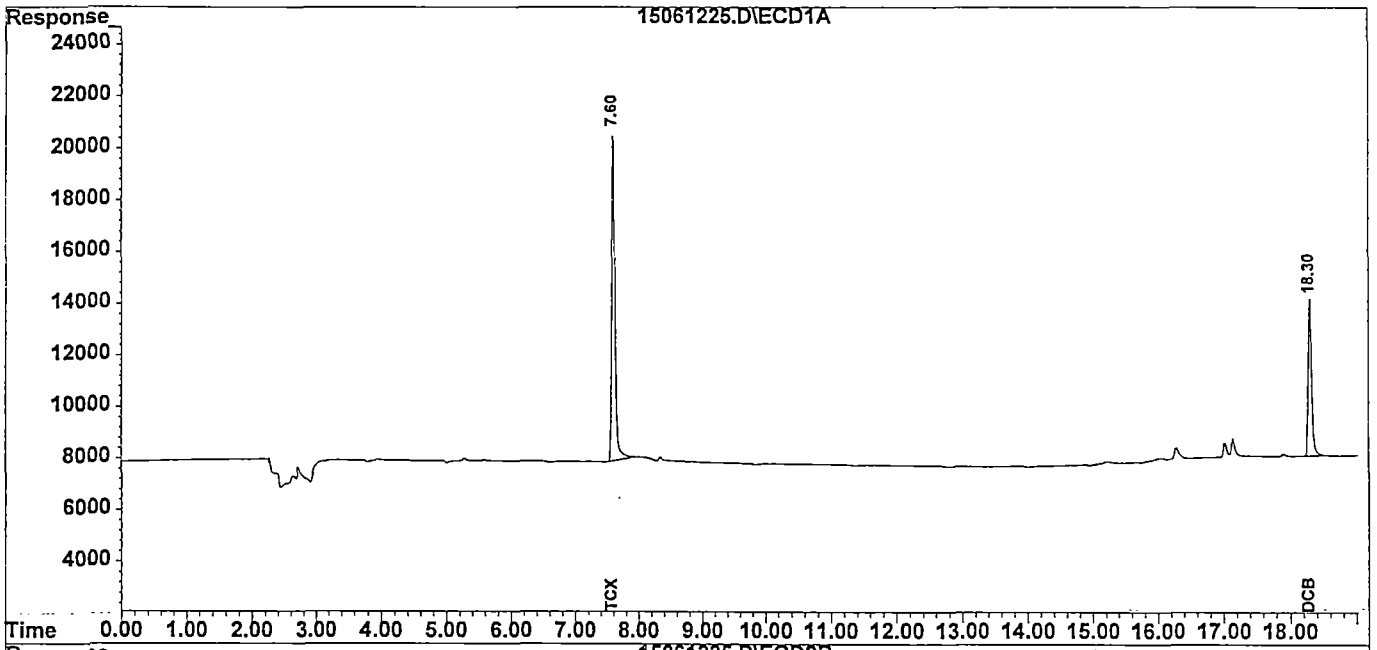
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E00B9
Signature S Jackett
Date 6/14/01

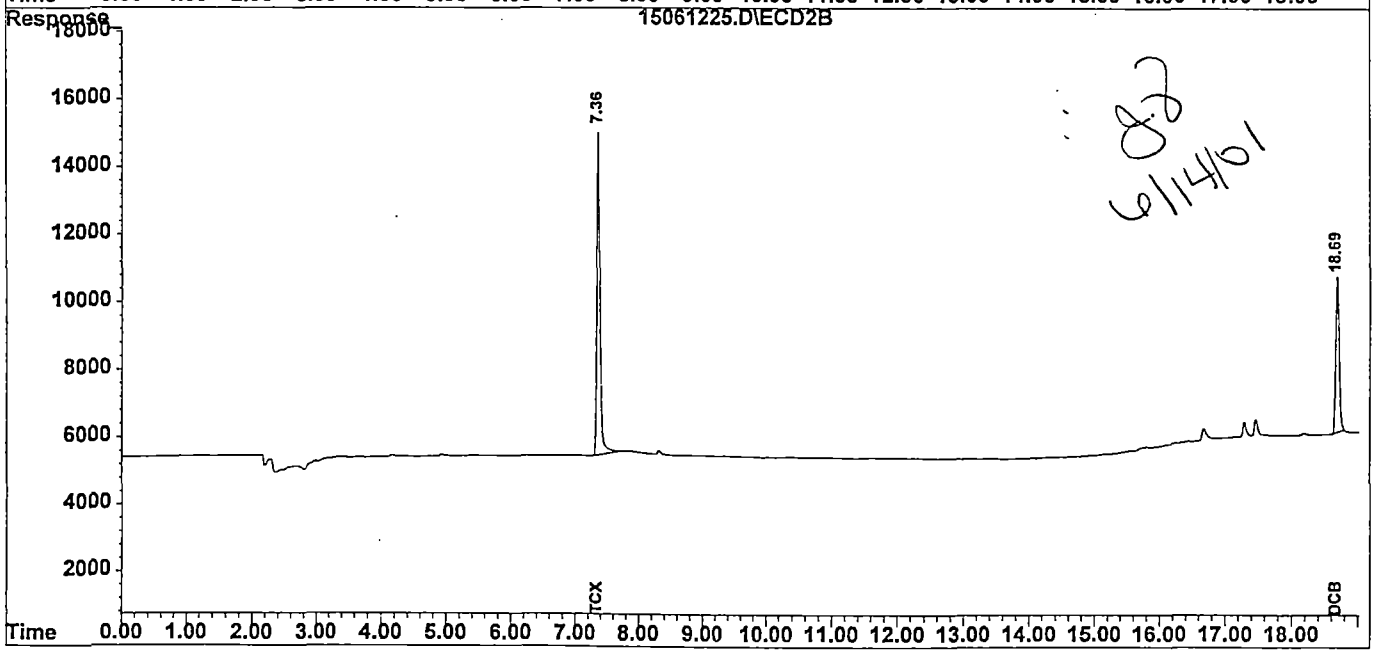
.,=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
15061225.D XPCBF12.M Wed Jun 13 09:59:44 2001 Page 1

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061225.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061225.D\ECD2B.CH
Acq On : 12 Jun 2001 21:44 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 13 9:42 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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





8.7
6/14/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK5J

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

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: 06/13/01

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.

PIBLK5J

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

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: 06/13/01

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_12_01\15061276.D\ECD1A.CH Vial: 76
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061276.D\ECD2B.CH
Acq On : 13 Jun 2001 17:31 Operator: DDC
Sample : PIBLK5J Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 14 7:59 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 14 09:23:24 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	7.61	7.37	502020	460895	21.8	26.3
22)	S DCB	18.31	18.70	126073	107058	9.161	10.5
	Target Compounds:						

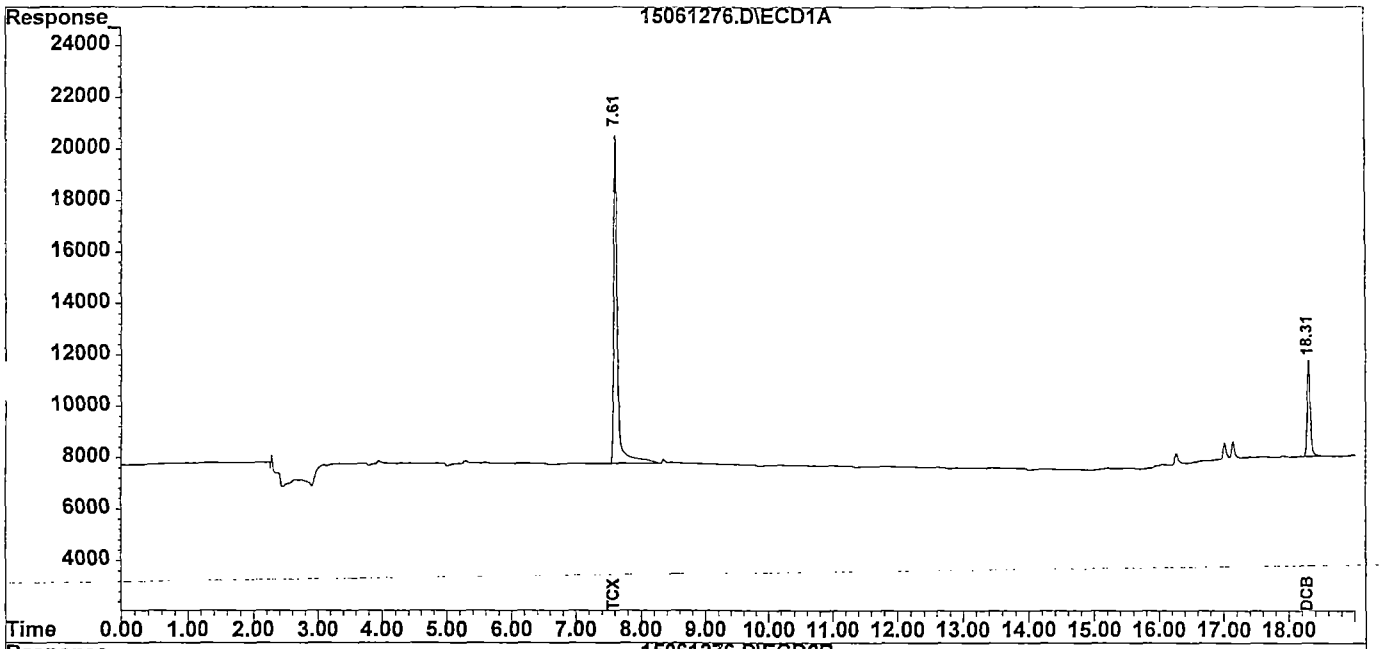
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

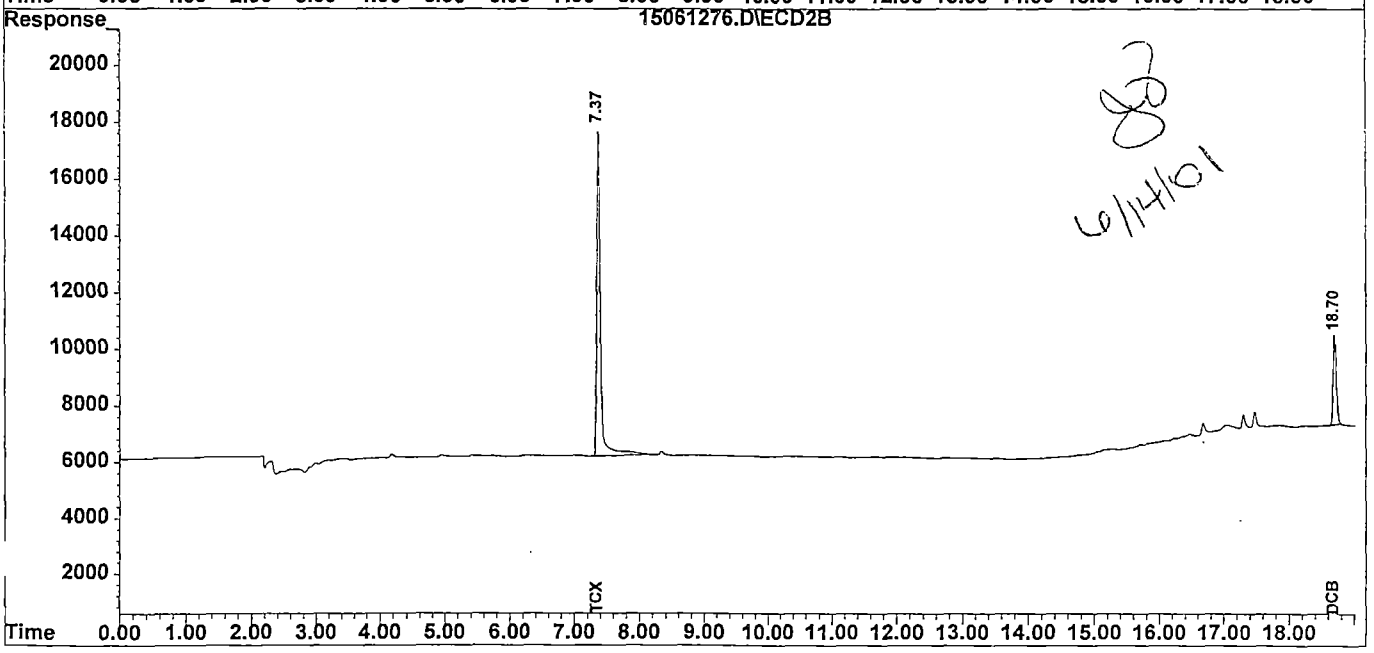
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061276.D\ECD1A.CH Vial: 76
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061276.D\ECD2B.CH
Acq On : 13 Jun 2001 17:31 Operator: DDC
Sample : PIBLK5J Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 14 7:59 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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





6/14/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK5K

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

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: 06/13/01

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.

PIBLK5K

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

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: 06/13/01

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_12_01\15061286.D\ECD1A.CH Vial: 86
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061286.D\ECD2B.CH
Acq On : 13 Jun 2001 21:24 Operator: DDC
Sample : PIBLK5K Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 14 8:30 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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	7.60	7.36	519147	488895	22.5	27.9
22)	S DCB	18.30	18.70	116615	99741	8.474	9.747
	Target Compounds:						

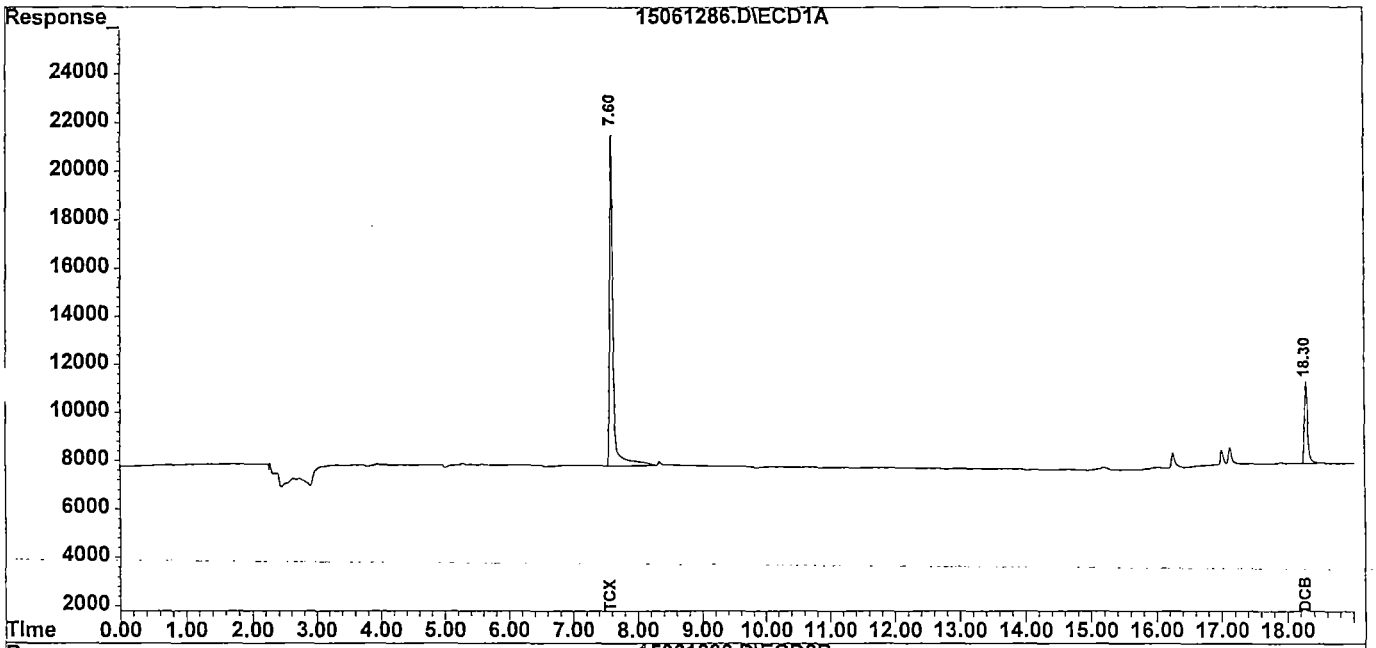
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

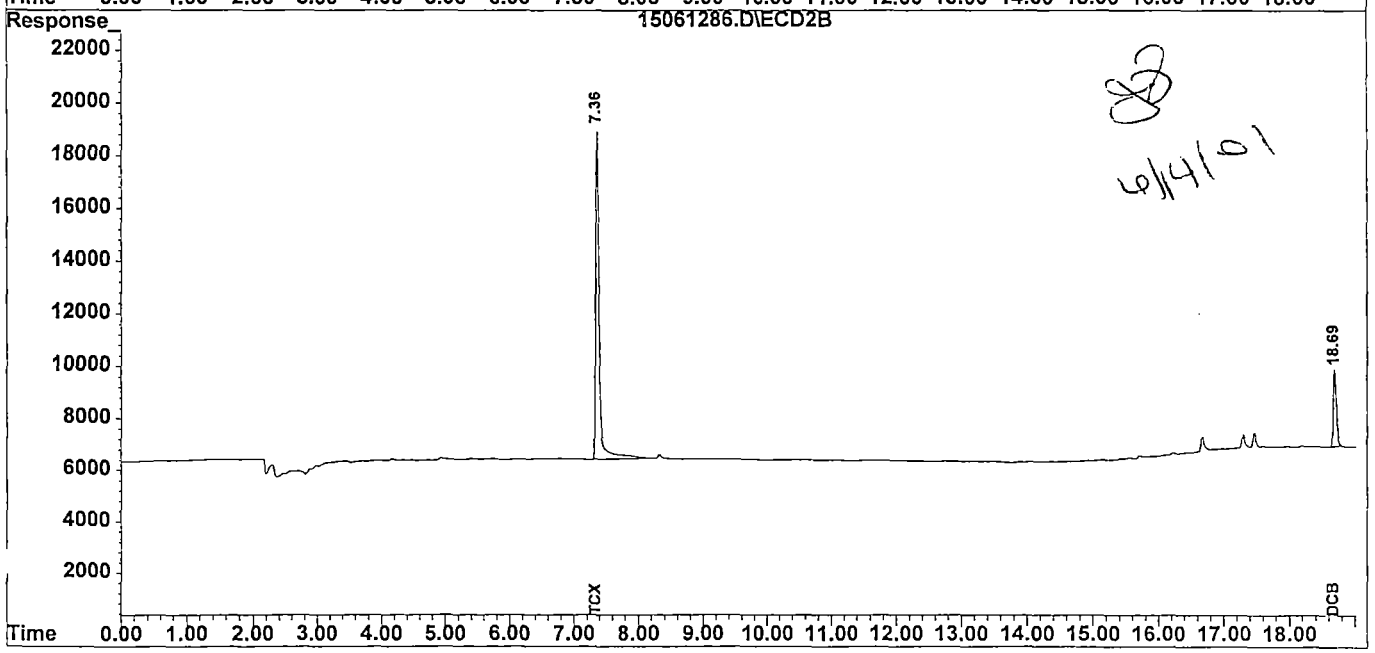
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061286.D\ECD1A.CH Vial: 86
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061286.D\ECD2B.CH
Acq On : 13 Jun 2001 21:24 Operator: DDC
Sample : PIBLK5K Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 14 8:30 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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





6/14/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK52

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

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.

PIBLK52

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

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 : PIBLK5~~27~~ Inst : HP_15
Misc : 5-414-6 06/19/01 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 Loretta M. Williams
Date 06/19/01

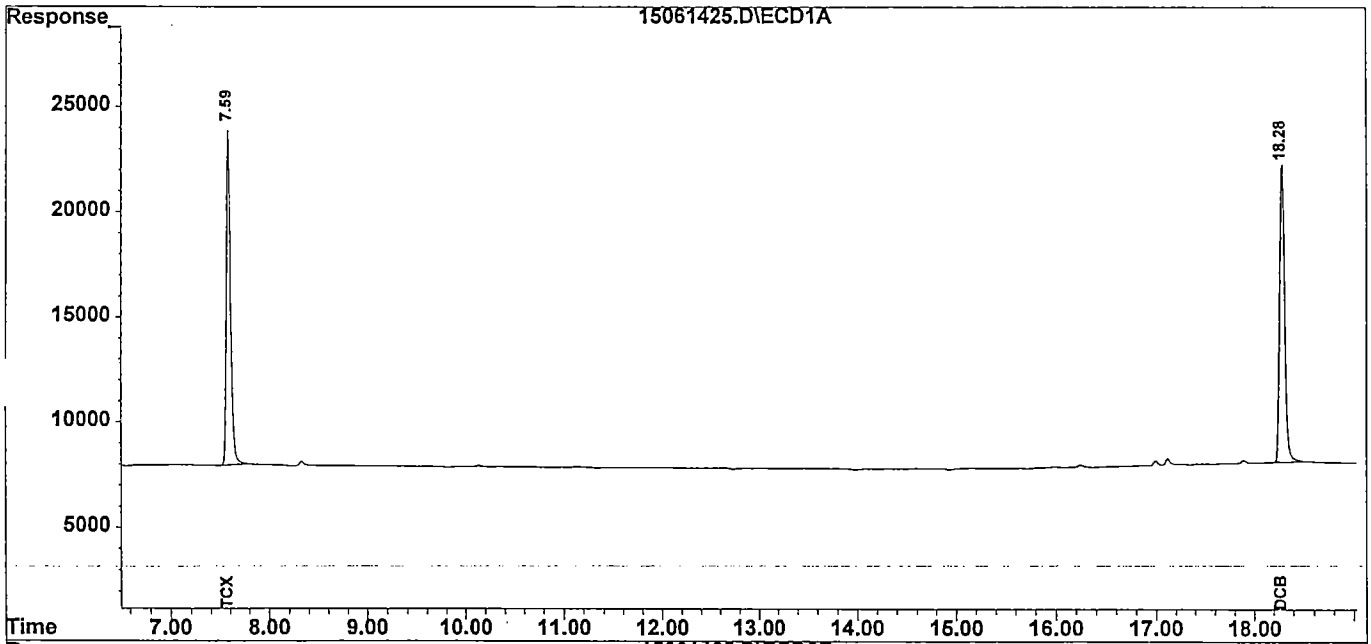
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

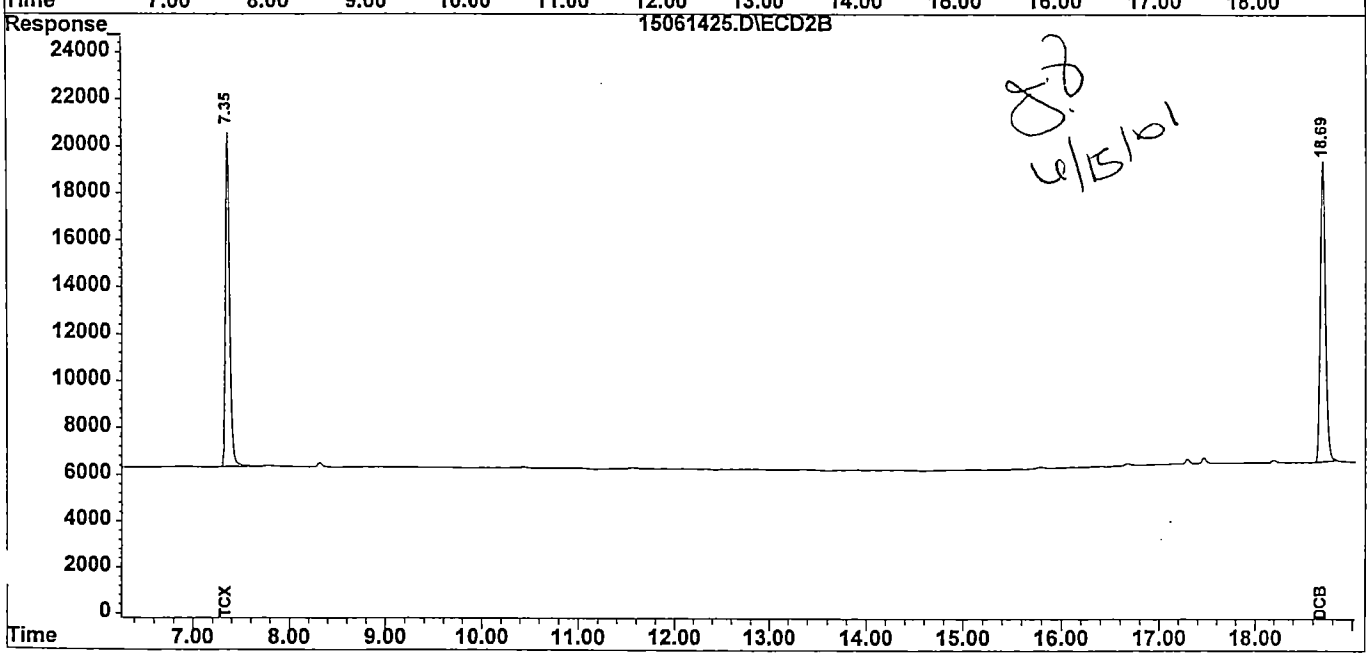
Chromatographic Report

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 : PIBLK5G2 Inst : HP_15
Misc : 5-414-6 06/19/01 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





6/15/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK5L

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

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.

PIBLK5L

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

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\15061444.D\ECD1A.CH Vial: 44
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061444.D\ECD2B.CH
Acq On : 15 Jun 2001 10:33 Operator: DDC
Sample : PIBLK5L Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 11:23 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 : Fri Jun 15 11:23:25 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	512691	488312	20.4	21.1
22)	S DCB	18.29	18.69	475172	432310	18.3	18.2
	Target Compounds:						

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3065
Signature Arnelda M. Williams
Date 06/19/01

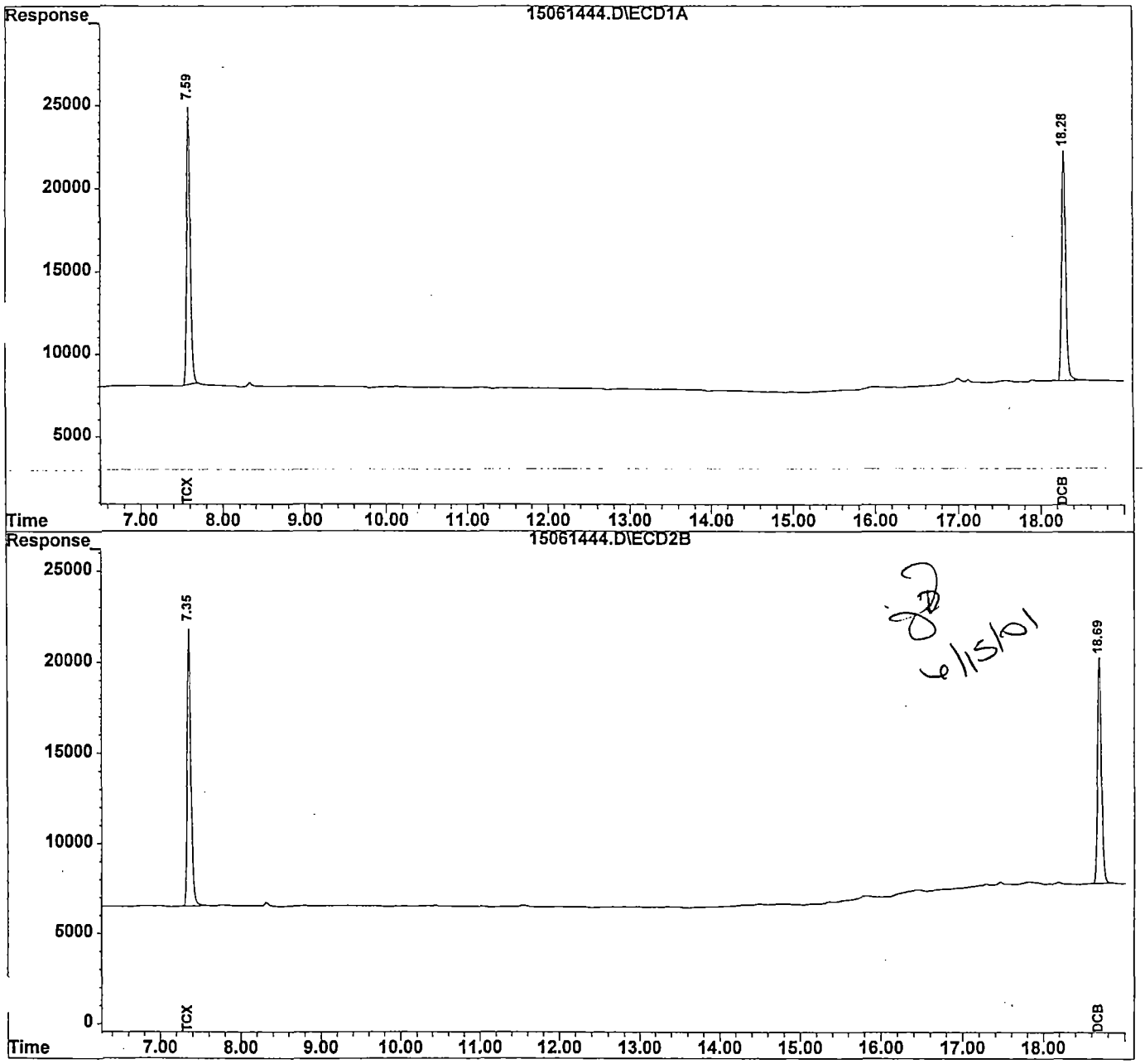
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061444.D\ECD1A.CH Vial: 44
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061444.D\ECD2B.CH
Acq On : 15 Jun 2001 10:33 Operator: DDC
Sample : PIBLK5L Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 11:23 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.

PIBLK5M

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

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.

PIBLK5M

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

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\15061458.D\ECD1A.CH Vial: 58
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061458.D\ECD2B.CH
Acq On : 15 Jun 2001 15:59 Operator: DDC
Sample : PIBLK5M Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 16 7:32 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 : Sat Jun 16 10:15:38 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	7.60	7.36	507402	493303	20.2	21.3
22)	S DCB	18.29	18.70	537360	500566	20.7	21.1

Target Compounds:

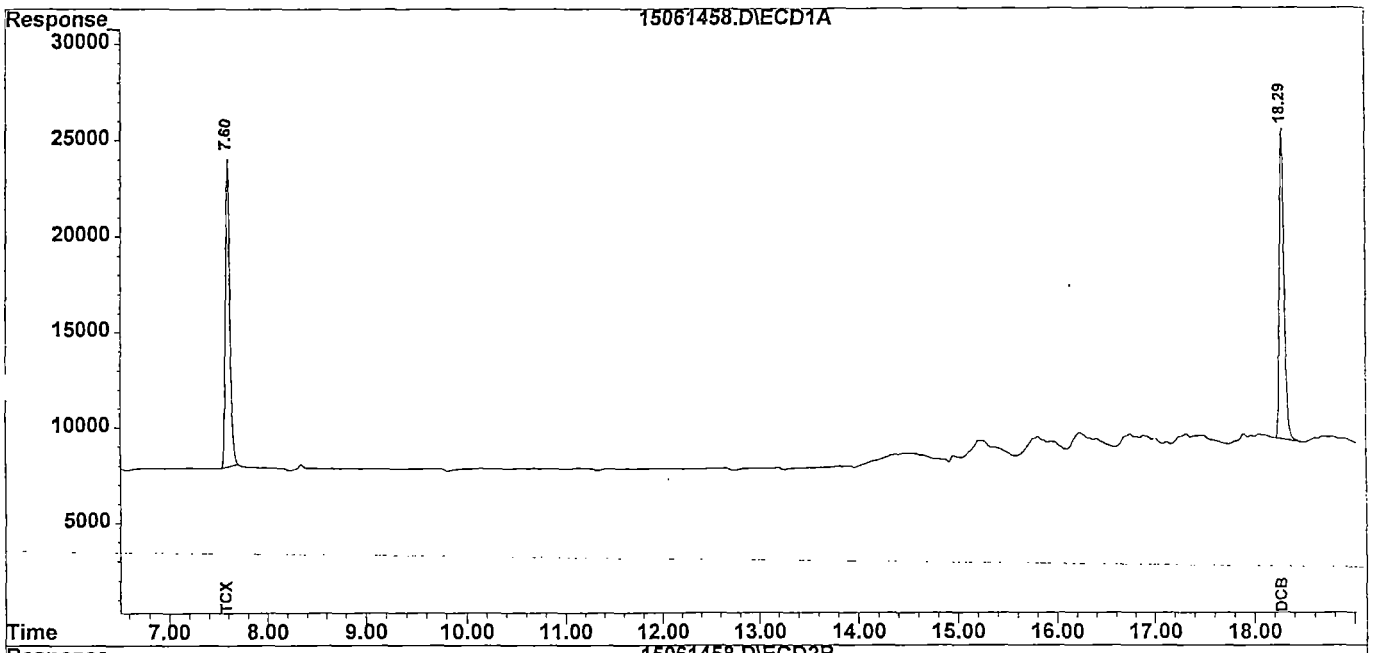
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

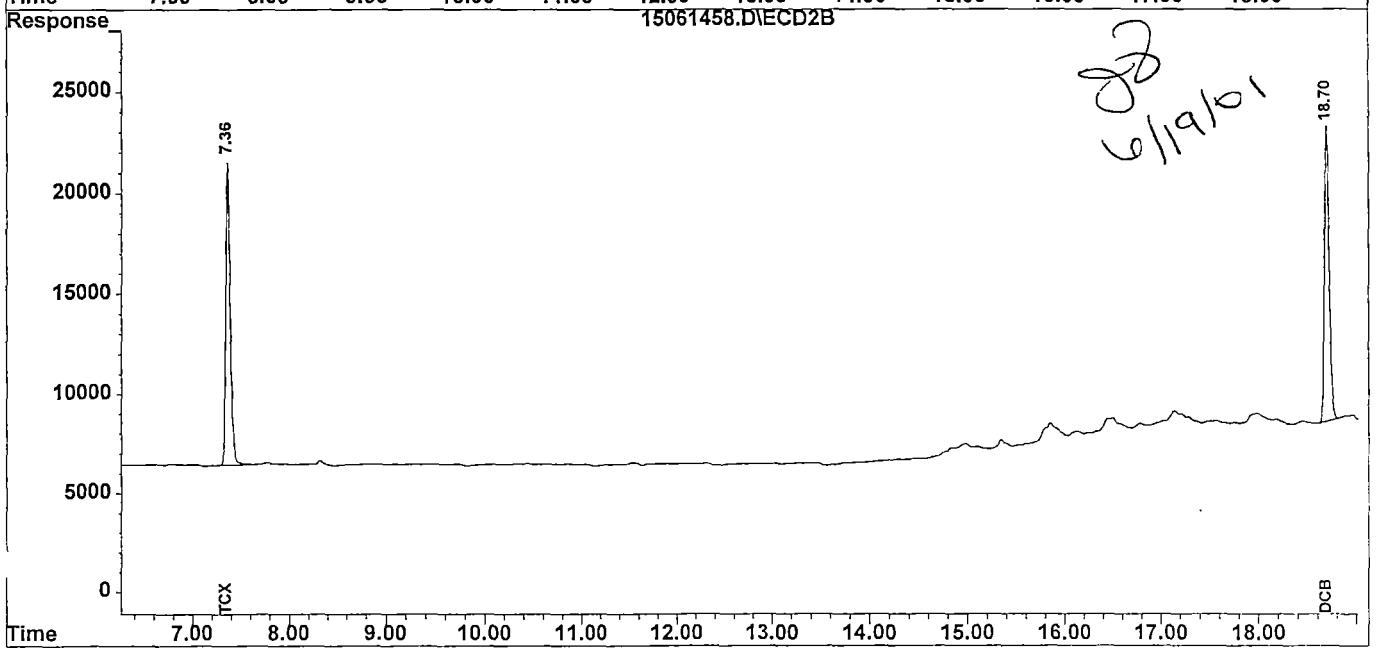
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061458.D\ECD1A.CH Vial: 58
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061458.D\ECD2B.CH
Acq On : 15 Jun 2001 15:59 Operator: DDC
Sample : PIBLK5M Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 16 7:32 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





6/19/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK5N

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK5N

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

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\15061470.D\ECD1A.CH Vial: 70
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061470.D\ECD2B.CH
Acq On : 15 Jun 2001 20:38 Operator: DDC
Sample : PIBLK5N Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 16 7:45 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	7.60	7.36	508768	510991	20.3	22.1
22)	S DCB	18.29	18.70	487083	445395	18.8	18.8
	Target Compounds:						

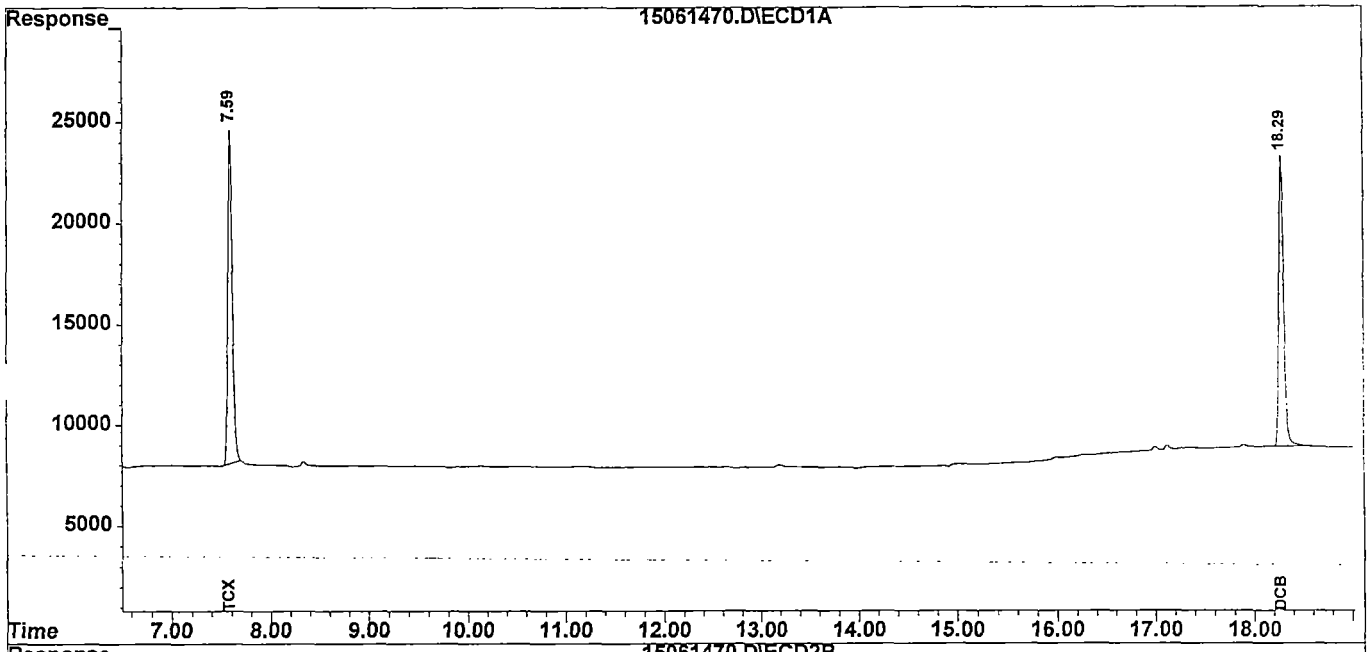
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

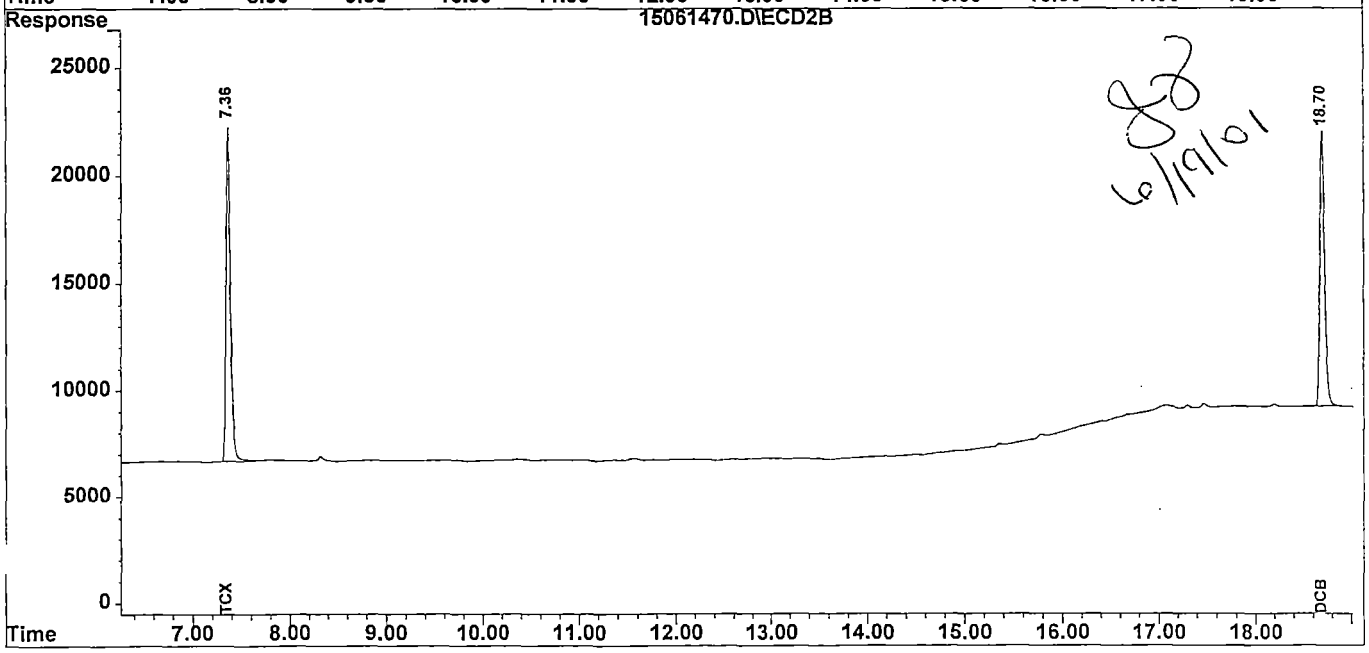
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061470.D\ECD1A.CH Vial: 70
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061470.D\ECD2B.CH
Acq On : 15 Jun 2001 20:38 Operator: DDC
Sample : PIBLK5N Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 16 7:45 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





6/19/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK5Q

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

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: 06/16/01

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK5Q

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

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: 06/16/01

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\15061506.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061506.D\ECD2B.CH
Acq On : 16 Jun 2001 10:33 Operator: DDC
Sample : PIBLK5Q Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 17 8:50 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	526000	517188	21.0	22.3
22)	S DCB	18.29	18.69	515129	448153	19.9	18.9
	Target Compounds:						

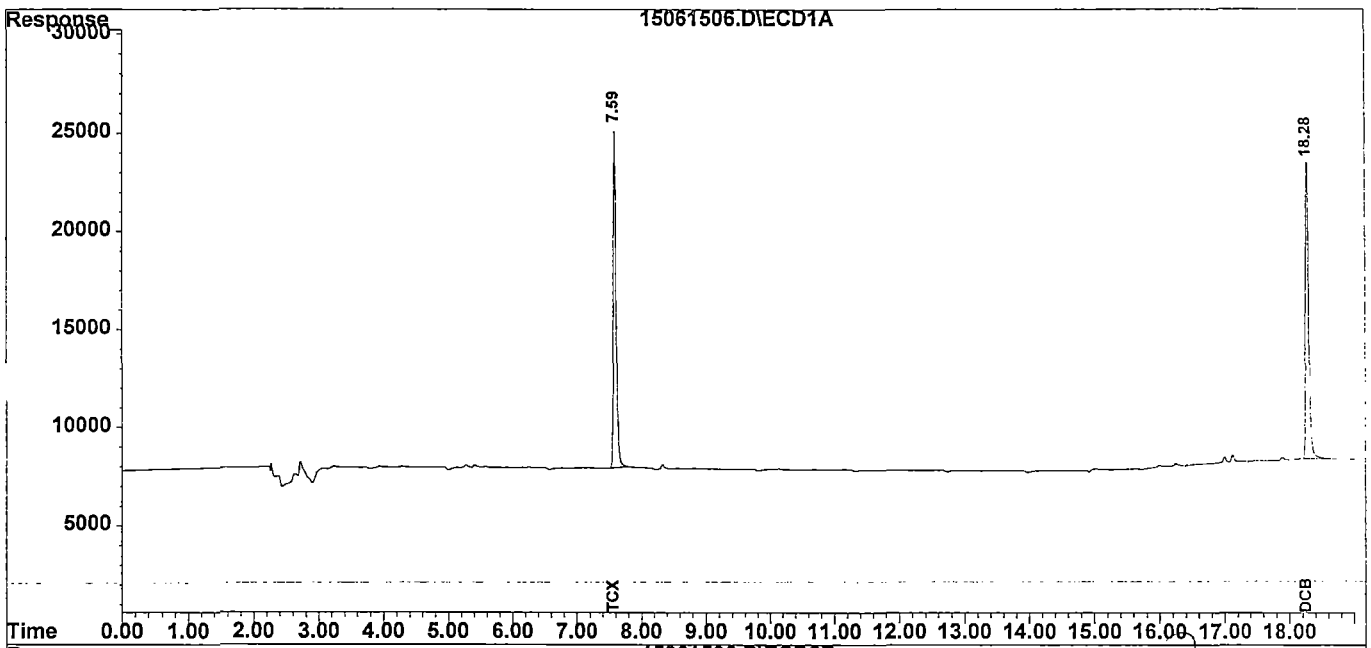
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

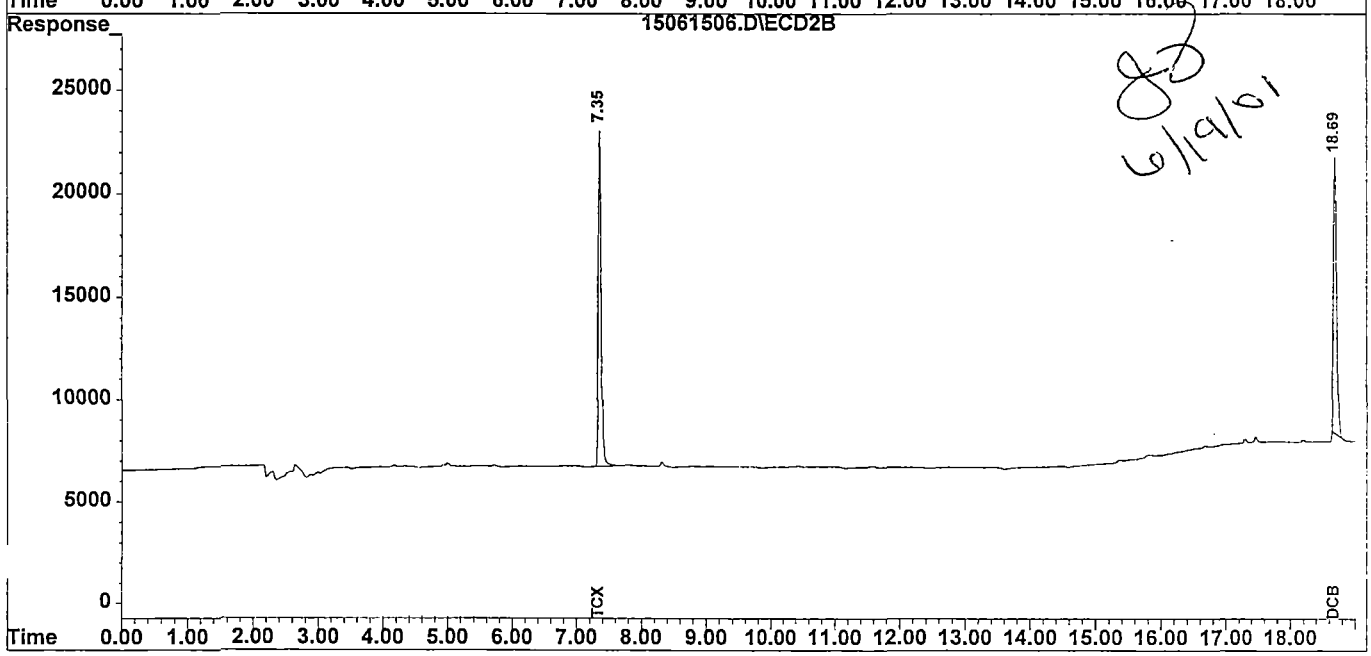
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061506.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061506.D\ECD2B.CH
Acq On : 16 Jun 2001 10:33 Operator: DDC
Sample : PIBLK5Q Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 17 8:50 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





6/19/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK5S

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

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: 06/16/01

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.

PIBLK5S

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

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: 06/16/01

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\15061536.D\ECD1A.CH Vial: 36
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061536.D\ECD2B.CH
Acq On : 16 Jun 2001 22:11 Operator: DDC
Sample : PIBLK5S Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 17 8:58 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	550587	473544	22.0	20.4
22)	S DCB	18.29	18.69	526508	445627	20.3	18.8
	Target Compounds:						

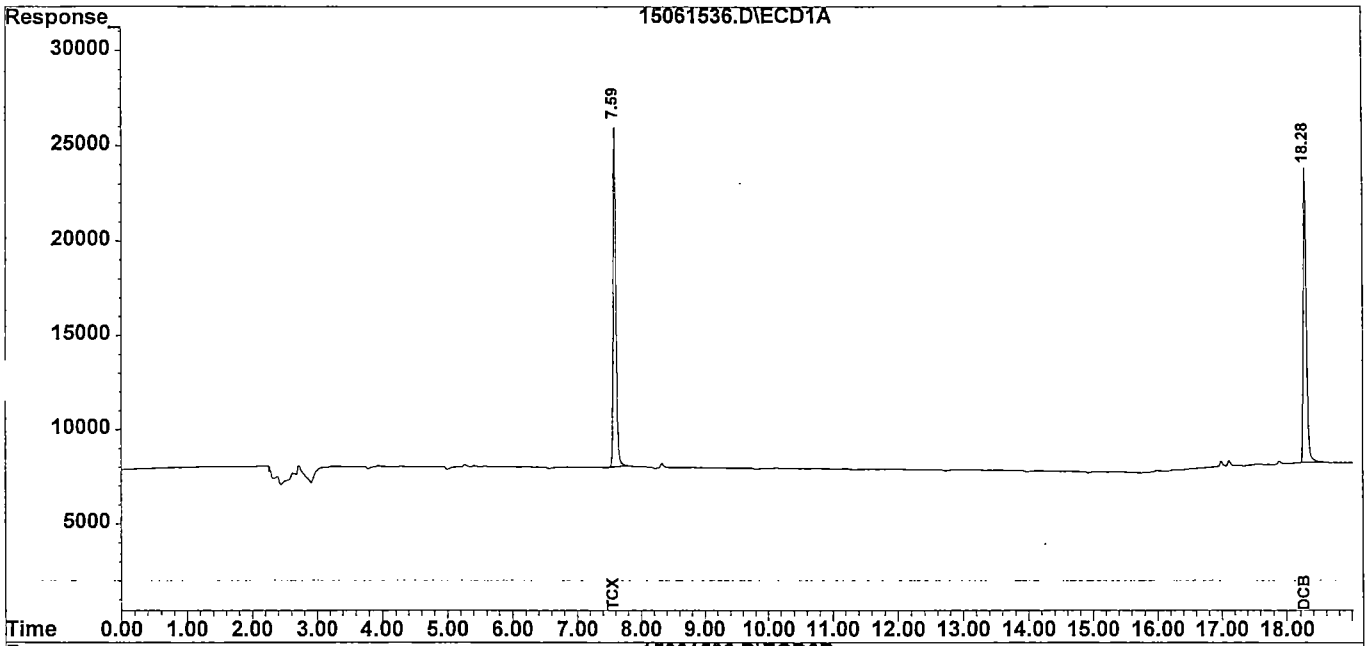
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

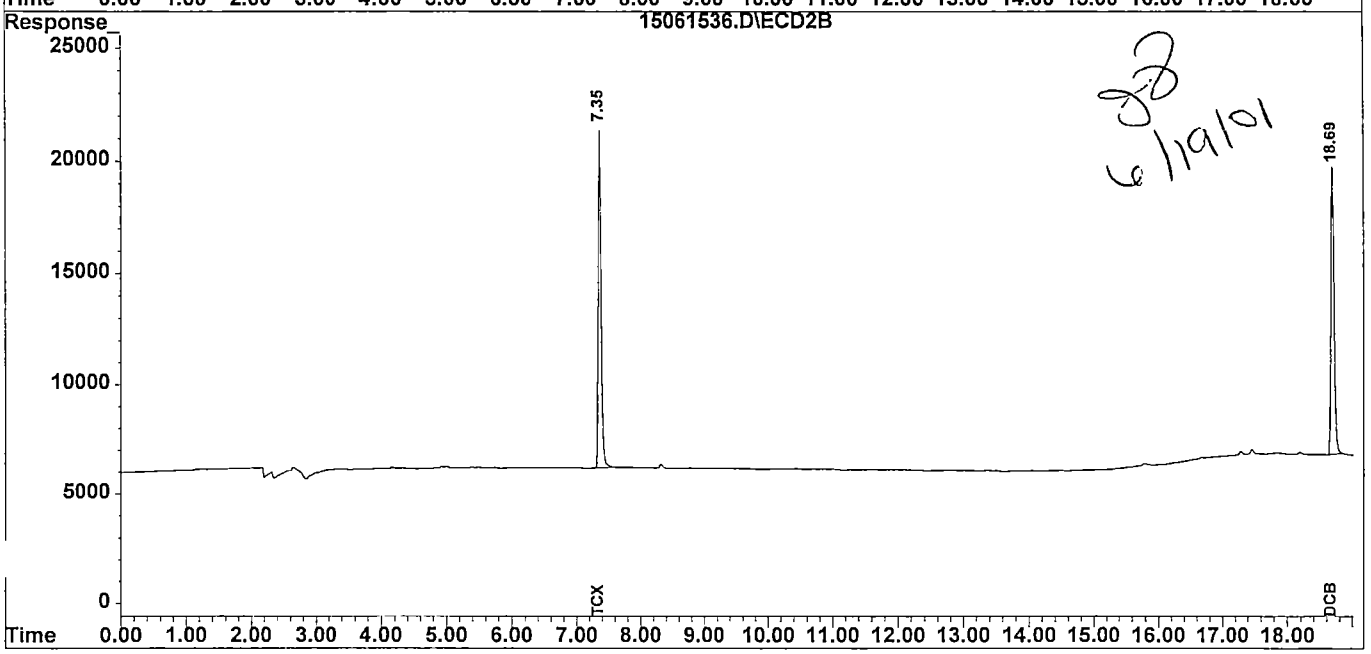
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061536.D\ECD1A.CH Vial: 36
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061536.D\ECD2B.CH
Acq On : 16 Jun 2001 22:11 Operator: DDC
Sample : PIBLK5S Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 17 8:58 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





6/19/01

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.: E00E6

Matrix: (soil/water) SOIL Lab Sample ID: LC0607SF

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

% Moisture: 0 decanted: (Y/N) __ Date Received: 06/07/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/07/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/13/01

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	

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061283.D\ECD1A.CH Vial: 83
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061283.D\ECD2B.CH
Acq On : 13 Jun 2001 20:14 Operator: DDC
Sample : LC0607SF *ELCS1 * Inst : HP_15
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 14 10:15 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.60	7.36	315397	296179	4.557	5.642	
	Spiked Amount 6.667			Recovery	=	68.36%	84.63%	
22)	S DCB	18.30	18.70	120483	112670	2.918	3.670	#
	Spiked Amount 6.667			Recovery	=	43.77%	55.05%	
	Target Compounds:							
12)	L6 Aroclor-1254	12.67	12.34	357125	124012	102.6	166.0	#
13)	L6 Aroclor-1254 {2}	13.36	13.07	204657	136066	92.8	166.0	#
14)	L6 Aroclor-1254 {3}	13.83	13.96	268565	153748	114.3	150.0	#
15)	L6 Aroclor-1254 {4}	14.34	14.94	237321	161773	98.1	93.4	
16)	L6 Aroclor-1254 {5}	15.02	15.41	141366	200751	91.4	142.0	#
	Sum Aroclor-1254			1209035	776349	499.2	717.4	
	Average Aroclor-1254					99.847	143.486	

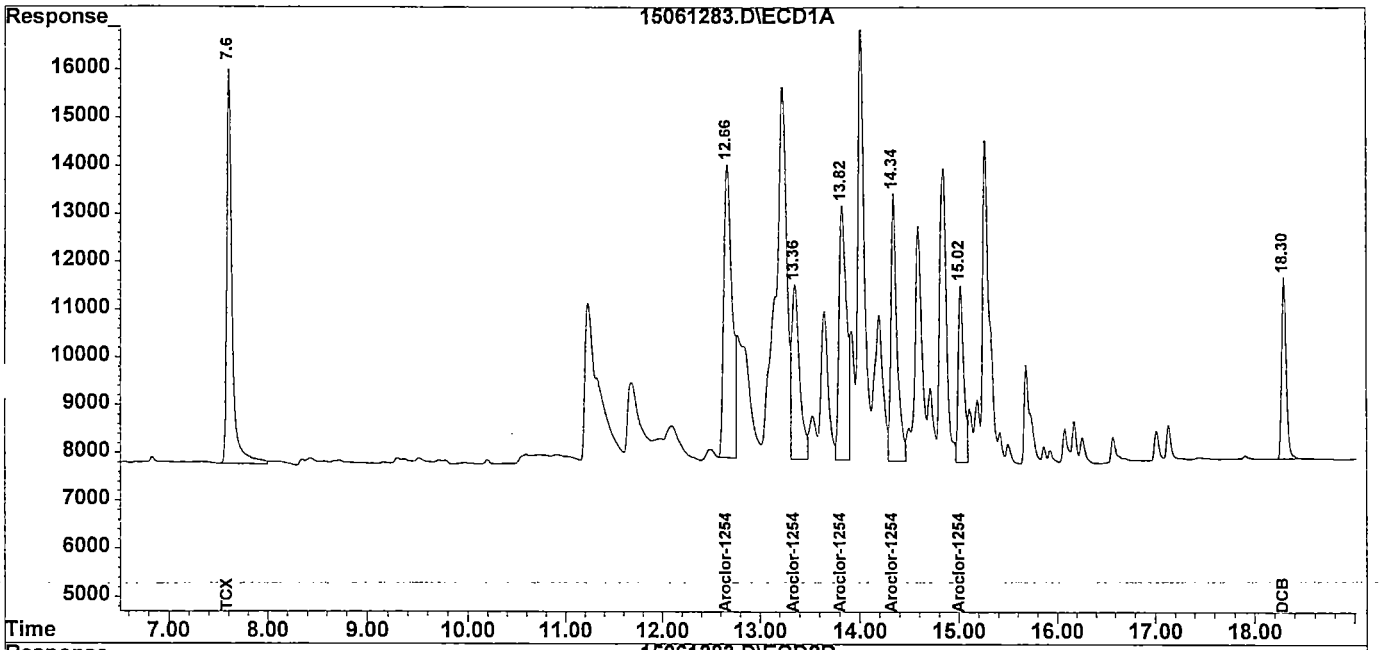
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

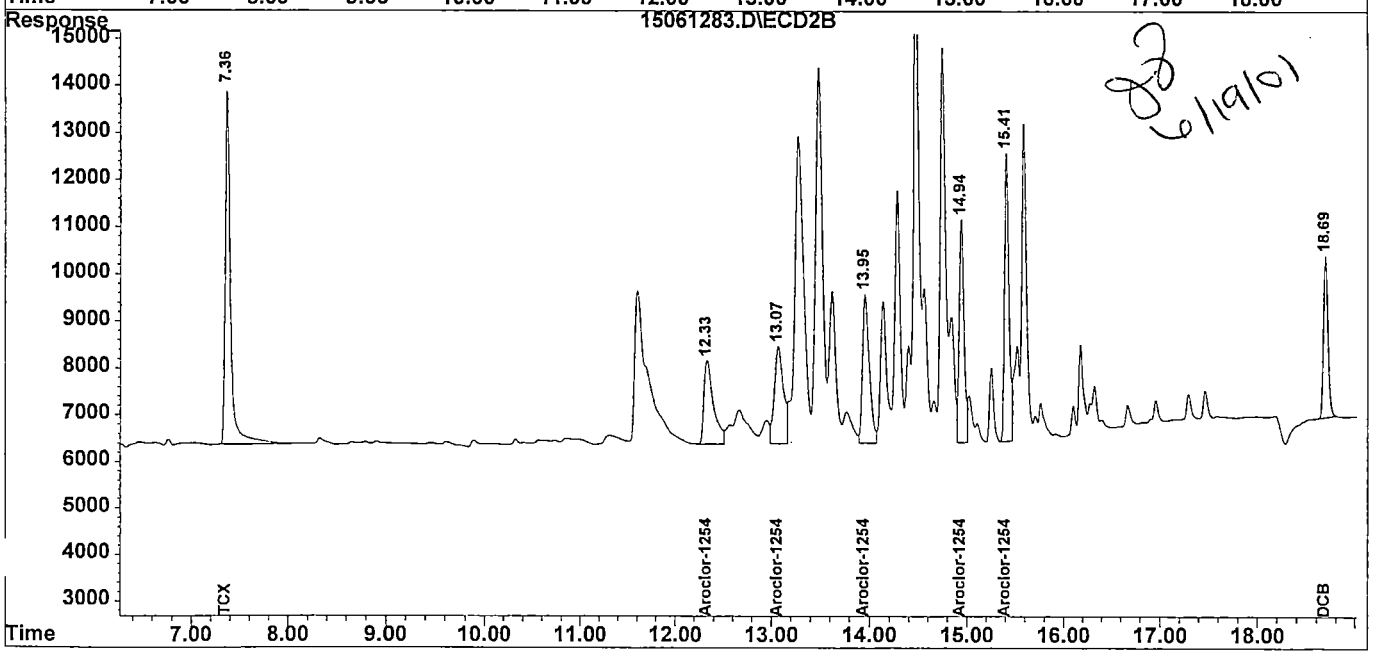
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061283.D\ECD1A.CH Vial: 83
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061283.D\ECD2B.CH
Acq On : 13 Jun 2001 20:14 Operator: DDC
Sample : LC0607SF *ELCS1 * Inst : HP_15
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 14 10:15 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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





6/19/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ELCS2

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Matrix: (soil/water) SOIL Lab Sample ID: LD0607SF

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

% Moisture: 0 decanted: (Y/N) __ Date Received: 06/07/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/07/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/13/01

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	140	
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_12_01\15061284.D\ECD1A.CH Vial: 84
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061284.D\ECD2B.CH
Acq On : 13 Jun 2001 20:38 Operator: DDC
Sample : LD0607SF *ELCS2 * Inst : HP_15
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 14 10:15 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.60	7.36	409610	389445	5.918	7.418	#
	Spiked Amount 6.667			Recovery	=	88.77%	111.27%	
22)	S DCB	18.30	18.70	168905	157093	4.091	5.117	#
	Spiked Amount 6.667			Recovery	=	61.37%	76.76%	
	Target Compounds:							
12)	L6 Aroclor-1254	12.67	12.33	609229	171411	175.1	229.4	#
13)	L6 Aroclor-1254 {2}	13.36	13.07	275977	188004	125.1	229.4	#
14)	L6 Aroclor-1254 {3}	13.82	13.96	364462	213576	155.1	208.3	#
15)	L6 Aroclor-1254 {4}	14.34	14.94	321556	227428	133.0	131.4	
16)	L6 Aroclor-1254 {5}	15.02	15.41	199584	282633	129.1	200.0	#
	Sum Aroclor-1254			1770807	1083053	717.3	998.5	
	Average Aroclor-1254					143.460	199.691	

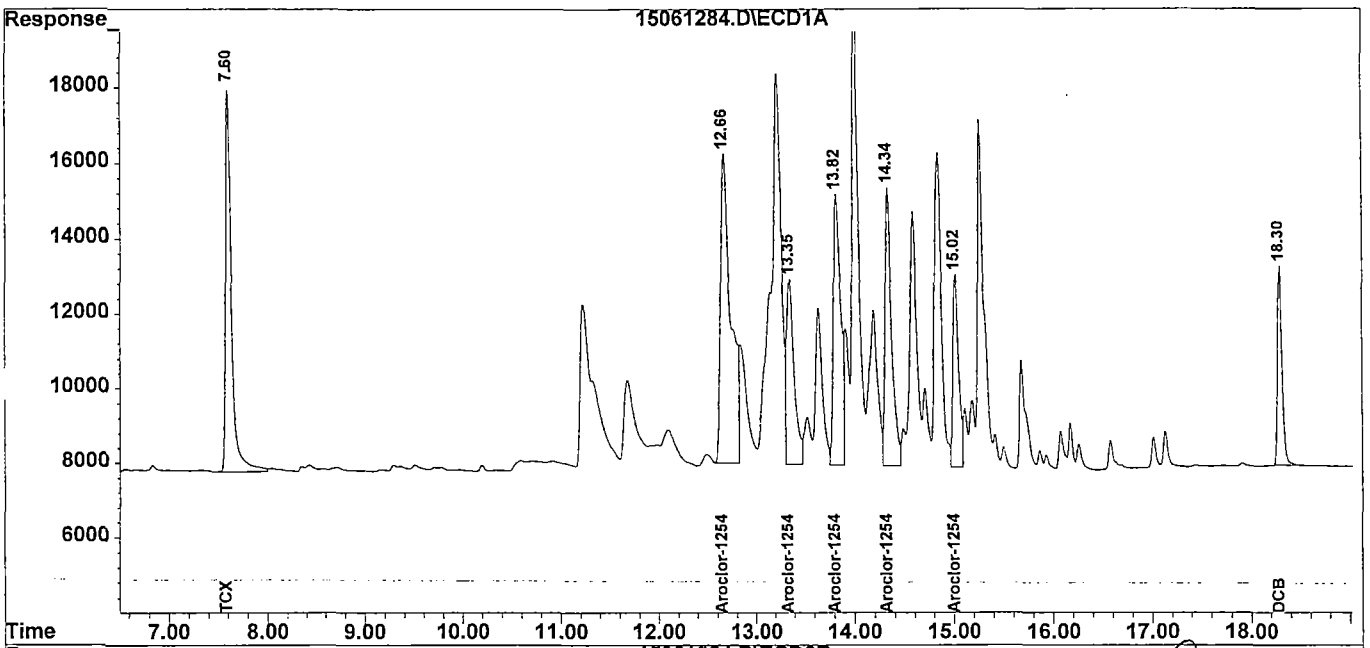
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

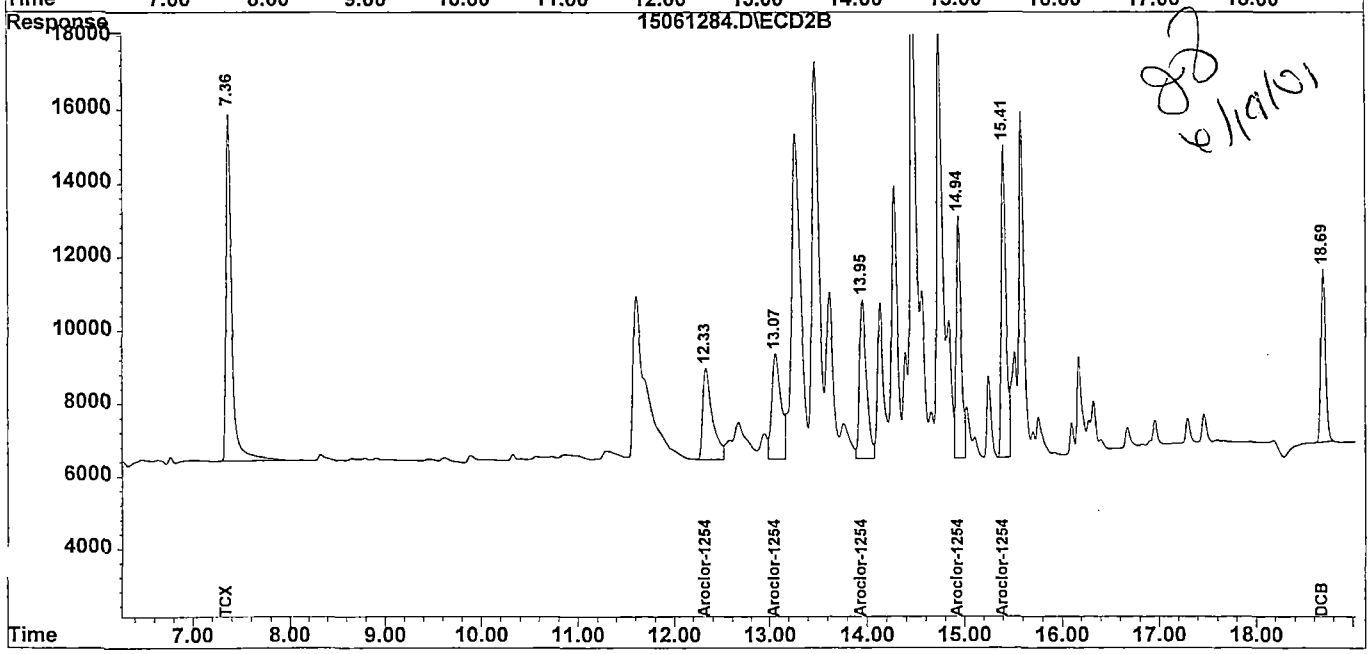
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061284.D\ECD1A.CH Vial: 84
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061284.D\ECD2B.CH
Acq On : 13 Jun 2001 20:38 Operator: DDC
Sample : LD0607SF *ELCS2 * Inst : HP_15
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 14 10:15 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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





82
6/19/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00E6MS

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Matrix: (soil/water) SOIL Lab Sample ID: 46702.12MS

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

% Moisture: 21 decanted: (Y/N) __ Date Received: 06/07/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/07/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/15/01

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	42	U
11104-28-2	Aroclor-1221	42	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	150	
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	350	
11096-82-5	Aroclor-1260	180	
	Surrogate amount spiked	8.41	

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061434.D\ECD1A.CH Vial: 34
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061434.D\ECD2B.CH
Acq On : 15 Jun 2001 6:41 Operator: DDC
Sample : 46702.12MS *E00E6MS * Inst : HP_15
Misc : *EPA*30.1G/5.0ML*21 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:57 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	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	397614	370630	6.667	6.726	
	Spiked Amount 8.411			Recovery	=	79.27%	79.97%	
22)	S DCB	18.28	18.69	535141	505077	8.684	8.964	
	Spiked Amount 8.411			Recovery	=	103.25%	106.58%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.42	10.40	58155	105174	42.0	156.9	#
8)	L4 Aroclor-1242 {2}	9.70	11.18	88516	98994	95.1	86.9	
9)	L4 Aroclor-1242 {3}	10.64	0.00	221512	0	91.8	N.D. d	#
10)	L4 Aroclor-1242 {4}	11.64	12.63	507951	238793	371.8	327.1	
	Sum Aroclor-1242			876134	442961	600.7	571.0	
	Average Aroclor-1242					150.175	190.320	
12)	L6 Aroclor-1254	12.62	0.00	954845	0	346.0	N.D. d	#
13)	L6 Aroclor-1254 {2}	0.00	13.02	0	521827	N.D. d	461.8	#
14)	L6 Aroclor-1254 {3}	13.78	13.93	768107	297526	313.1	241.3	
15)	L6 Aroclor-1254 {4}	14.31	0.00	874661	0	397.6	N.D. d	#
16)	L6 Aroclor-1254 {5}	14.99	15.39	664225	845338	359.0	388.6	
	Sum Aroclor-1254			3261838	1664690	1415.7	1091.7	
	Average Aroclor-1254					353.918	363.896	
17)	L7 Aroclor-1260	14.31	0.00	874661	0	226.1	N.D. d	#
18)	L7 Aroclor-1260 {2}	14.80	14.72	1339070	1205983	257.5	353.1	#
19)	L7 Aroclor-1260 {3}	15.25	14.92	1606197	903484	323.8	223.6	#
20)	L7 Aroclor-1260 {4}	15.72	16.09	303929	173715	107.3	74.9	#
21)	L7 Aroclor-1260 {5}	16.16	16.32	596627	491305	105.9	87.4	
	Sum Aroclor-1260			4720484	2774487	429.2	310.8	
	Average Aroclor-1260					204.110	184.740	

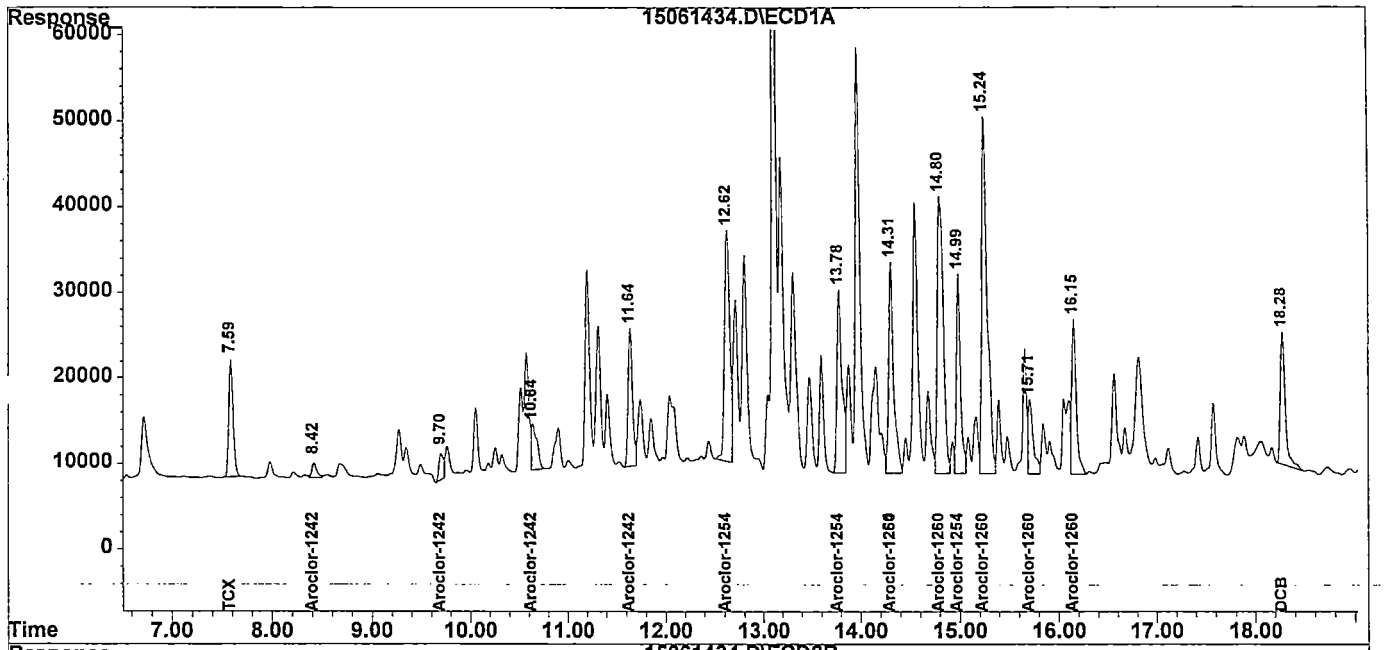
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

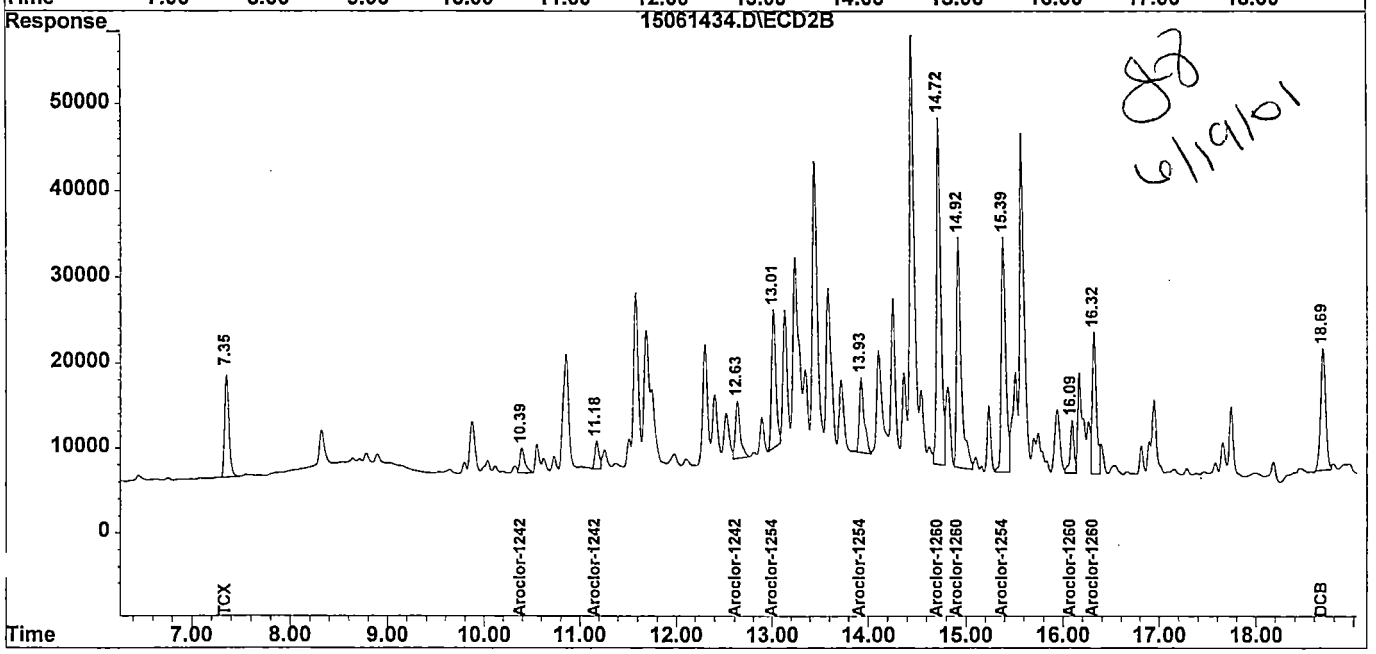
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061434.D\ECD1A.CH Vial: 34
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061434.D\ECD2B.CH
Acq On : 15 Jun 2001 6:41 Operator: DDC
Sample : 46702.12MS *E00E6MS * Inst : HP_15
Misc : *EPA*30.1G/5.0ML*21 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:57 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





DD 6/19/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00E6MSD

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E00E6

Matrix: (soil/water) SOIL Lab Sample ID: 46702.13MSD

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

% Moisture: 21 decanted: (Y/N) __ Date Received: 06/07/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/07/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/15/01

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	42	U
11104-28-2	Aroclor-1221	42	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	160	
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	380	
11096-82-5	Aroclor-1260	150	
	Surrogate amount spiked	8.41	

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061435.D\ECD1A.CH Vial: 35
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061435.D\ECD2B.CH
Acq On : 15 Jun 2001 7:05 Operator: DDC
Sample : 46702.13MSD *E00E6MSD * Inst : HP_15
Misc : *EPA*30.1G/5.0ML*21 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:58 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	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	439381	459577	7.367	8.340	
	Spiked Amount 8.411			Recovery	=	87.59%	99.16%	
22)	S DCB	18.28	18.69	699153	550269	11.3	9.766	
	Spiked Amount 8.411			Recovery	=	134.35%	116.11%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.42	10.40	114124	143320	82.5	213.9	#
8)	L4 Aroclor-1242 {2}	9.71	11.18	74397	102807	79.9	90.3	
9)	L4 Aroclor-1242 {3}	10.64	0.00	257711	0	106.8	N.D. d	#
10)	L4 Aroclor-1242 {4}	11.64	12.63	518418	300314	379.5	411.3	
	Sum Aroclor-1242			964650	546441	648.6	715.5	
	Average Aroclor-1242					162.161	238.498	
12)	L6 Aroclor-1254	12.62	0.00	967271	0	350.5	N.D. d	#
13)	L6 Aroclor-1254 {2}	0.00	13.02	0	597004	N.D. d	528.3	#
14)	L6 Aroclor-1254 {3}	13.78	13.93	821503	305305	334.9	247.6	#
15)	L6 Aroclor-1254 {4}	14.31	0.00	951011	0	432.3	N.D. d	#
16)	L6 Aroclor-1254 {5}	14.99	15.39	745629	973341	402.9	447.4	
	Sum Aroclor-1254			3485414	1875650	1520.6	1223.4	
	Average Aroclor-1254					380.161	407.789	
17)	L7 Aroclor-1260	14.31	0.00	951011	0	245.9	N.D. d	#
18)	L7 Aroclor-1260 {2}	14.80	0.00	1471064	0	282.8	N.D. d	#
19)	L7 Aroclor-1260 {3}	0.00	14.92	0	1048423	N.D. d	259.4	#
20)	L7 Aroclor-1260 {4}	15.71	16.09	344626	206868	121.7	89.2	#
21)	L7 Aroclor-1260 {5}	16.16	16.32	886800	585472	157.4	104.1	#
	Sum Aroclor-1260			3653502	1840763	339.7	190.4	
	Average Aroclor-1260					201.933	150.916	

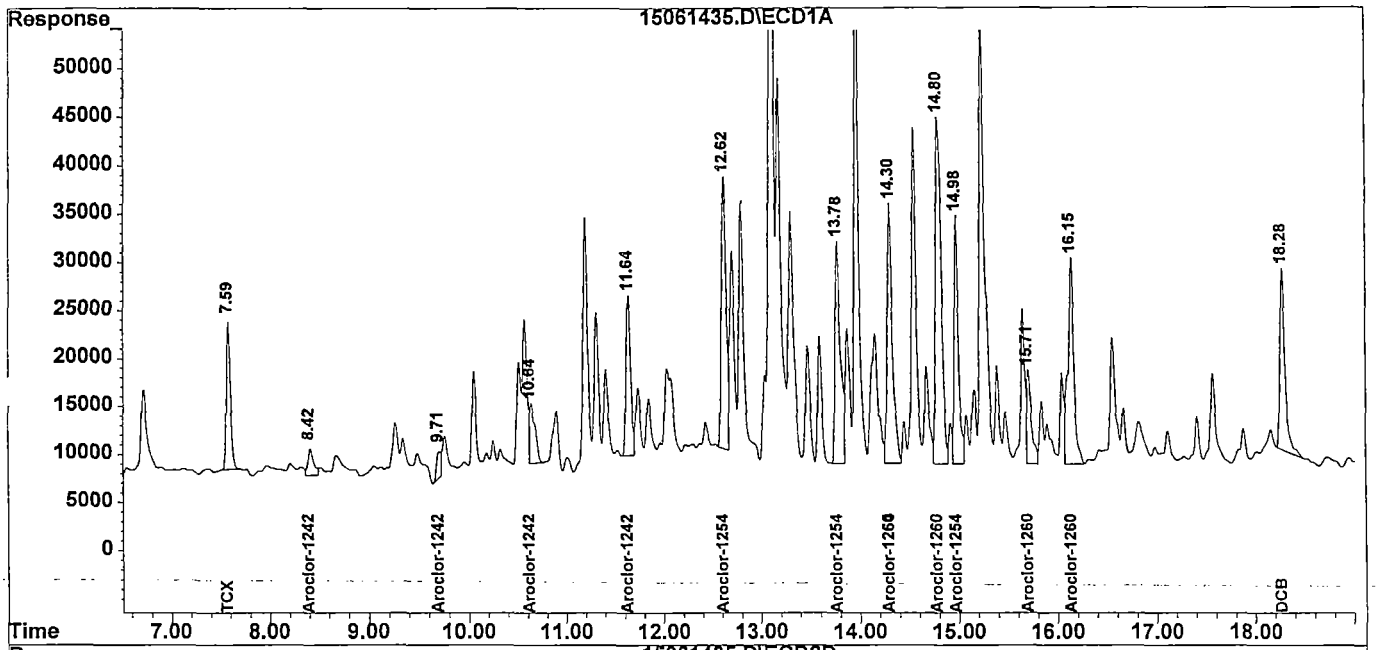
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

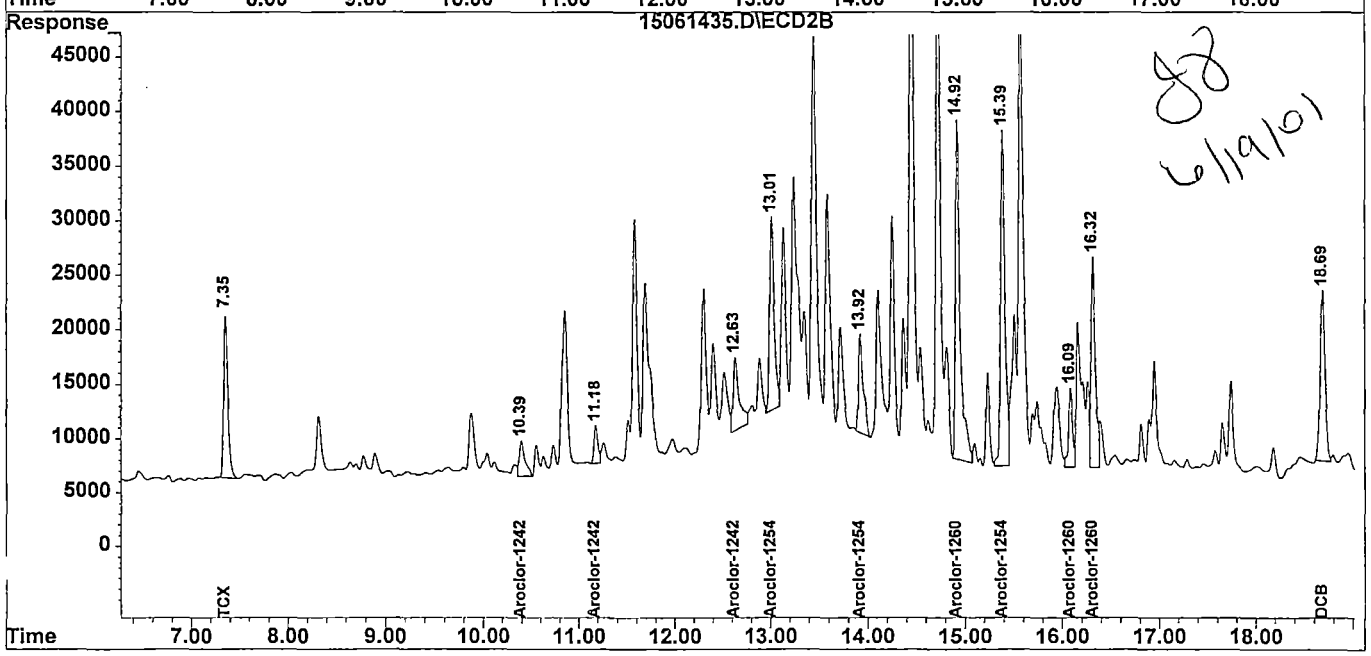
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061435.D\ECD1A.CH Vial: 35
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061435.D\ECD2B.CH
Acq On : 15 Jun 2001 7:05 Operator: DDC
Sample : 46702.13MSD *E00E6MSD * Inst : HP_15
Misc : *EPA*30.1G/5.0ML*21 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:58 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





DB 6/19/01

339

Gel Permeation Chromatography (GPC) Run Log - GPC2

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
06/08/01 20:14	1	CAL.STD (INITIAL)	2_060801	
06/08/01 20:45	2	SB	2_060802	
06/08/01 21:16	3	SB	2_060803	
06/08/01 21:47	4	SB	2_060804	
06/08/01 22:18	5	SB	2_060805	
06/08/01 22:50	6	SB#060801C (PEST)	2_060806	
06/08/01 23:21	7	SB#060801D (PEST)	2_060807	
06/08/01 23:52	8	BL0607SF-EPA	2_060808	
06/09/01 00:23	9	BB0607SF-EPA	2_060809	
06/09/01 00:54	10	BL0607SC-EPA	2_060810	
06/09/01 01:25	11	BB0607SC-EPA	2_060811	
06/09/01 01:56	12	LC0607SF-EPA	2_060812	
06/09/01 02:27	13	LD0607SF-EPA	2_060813	
06/09/01 02:58	14	LC0607SC-EPA	2_060814	
06/09/01 03:29	15	LD0607SC-EPA	2_060815	
06/09/01 04:01	16	46702.27-E00H0-EPA	2_060816	
06/09/01 04:32	17	46702.22-E00G5-EPA	2_060817	
06/09/01 05:03	18	46702.25-E00G8-EPA	2_060818	
06/09/01 05:34	19	46702.26-E00G9-EPA	2_060819	
06/09/01 06:05	20	46702.14-E00F6-EPA	2_060820	
06/09/01 06:36	21	46702.15-E00F7-EPA	2_060821	

6/14/2001 6/14/01

Verification Signature/Date Analyst Signature/Date

Book: OE-102-16-RUN-18 Page No.: 33

Gel Permeation Chromatography (GPC) Run Log - GPC2

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
06/09/01 07:07	22	46702.19-E00G2-EPA	2_060822	
06/09/01 07:38	23	46702.20-E00G3-EPA	2_060823	
06/09/01 08:09	24	46702.28-E00H1-EPA	2_060824	
06/09/01 08:40	25	46702.29-E00H3-EPA	2_060825	
06/09/01 09:12	26	46702.31-E00H6-EPA	2_060826	
06/09/01 09:43	27	46702.32-E00H7-EPA	2_060827	
06/09/01 10:14	28	46702.24-E00G7-EPA	2_060828	
06/09/01 10:45	29	46702.16-E00F8-EPA	2_060829	
06/09/01 11:16	30	46702.17-E00G0-EPA	2_060830	

Compound	Initial RT	Final RT	% Difference
Phthalate	14.07	14.64	4.05
Methoxychlor	15.69	16.32	4.01
Perylene	20.66	21.45	3.82

6/14/2001 — Verification Signature/Date

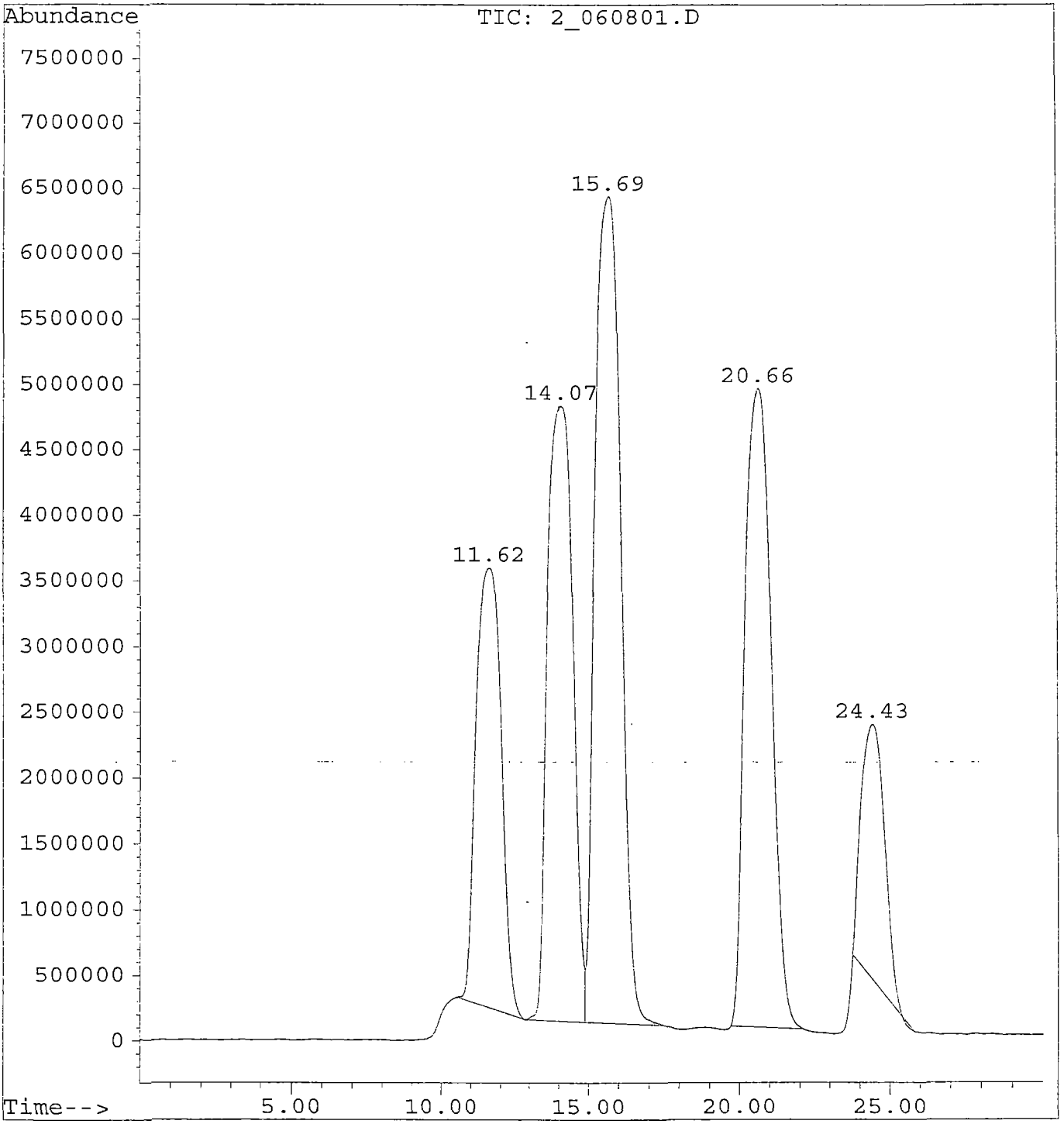
6/14/01 — Analyst Signature/Date

Book: OE-102-16-RUN-18 Page No.: 34

* Computer Error — Only have data for #1-30; missing data for #31-48
Applied Final Cal. Std. from 6/12/01
CR 6/14/01

Data File : C:\HPCHEM\6\DATA\060801\2_060801.D
Acq On : 08 Jun 01 08:14 PM
Sample : CAL.STD (INITIAL)
Misc : COL# 364134

Vial: 1
Operator: CD COL#
Inst : GPC2
Multiplr: 1.00



1) 11.62 = Corn Oil
2) 14.07 = Pthalate
3) 15.69 = Methoxychlor
4) 20.66 = Perylene
5) 24.43 = Sulfur

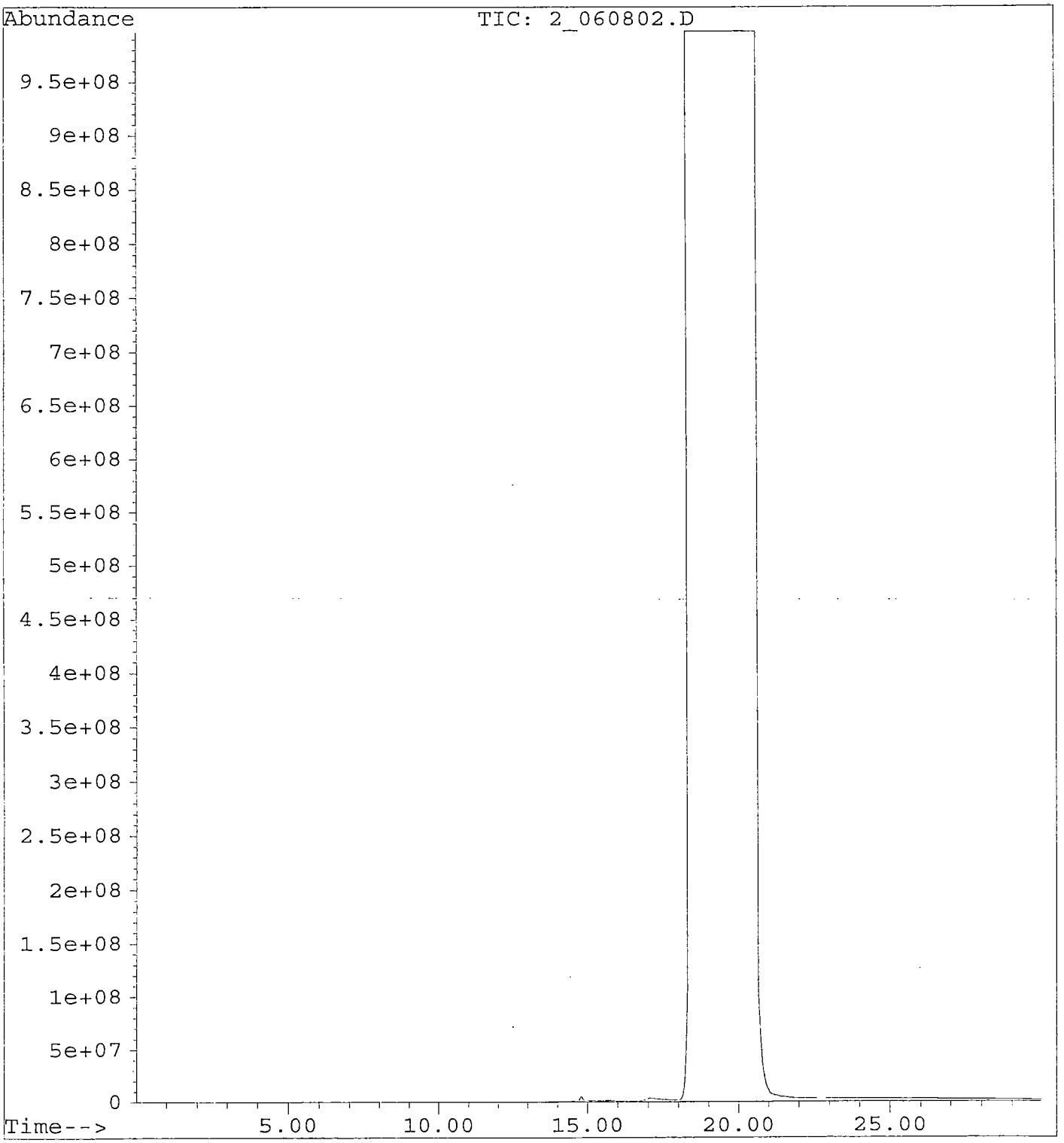
Chromatographic Resolution Report

Data File : C:\HPCHEM\6\DATA\060801\2_060801.D Vial: 1
Acq On : 08 Jun 01 20:14 Operator: CD COL# 36
Sample : CAL.STD (INITIAL) Inst : GPC2
Misc : COL# 364134 Multiplr: 1.00

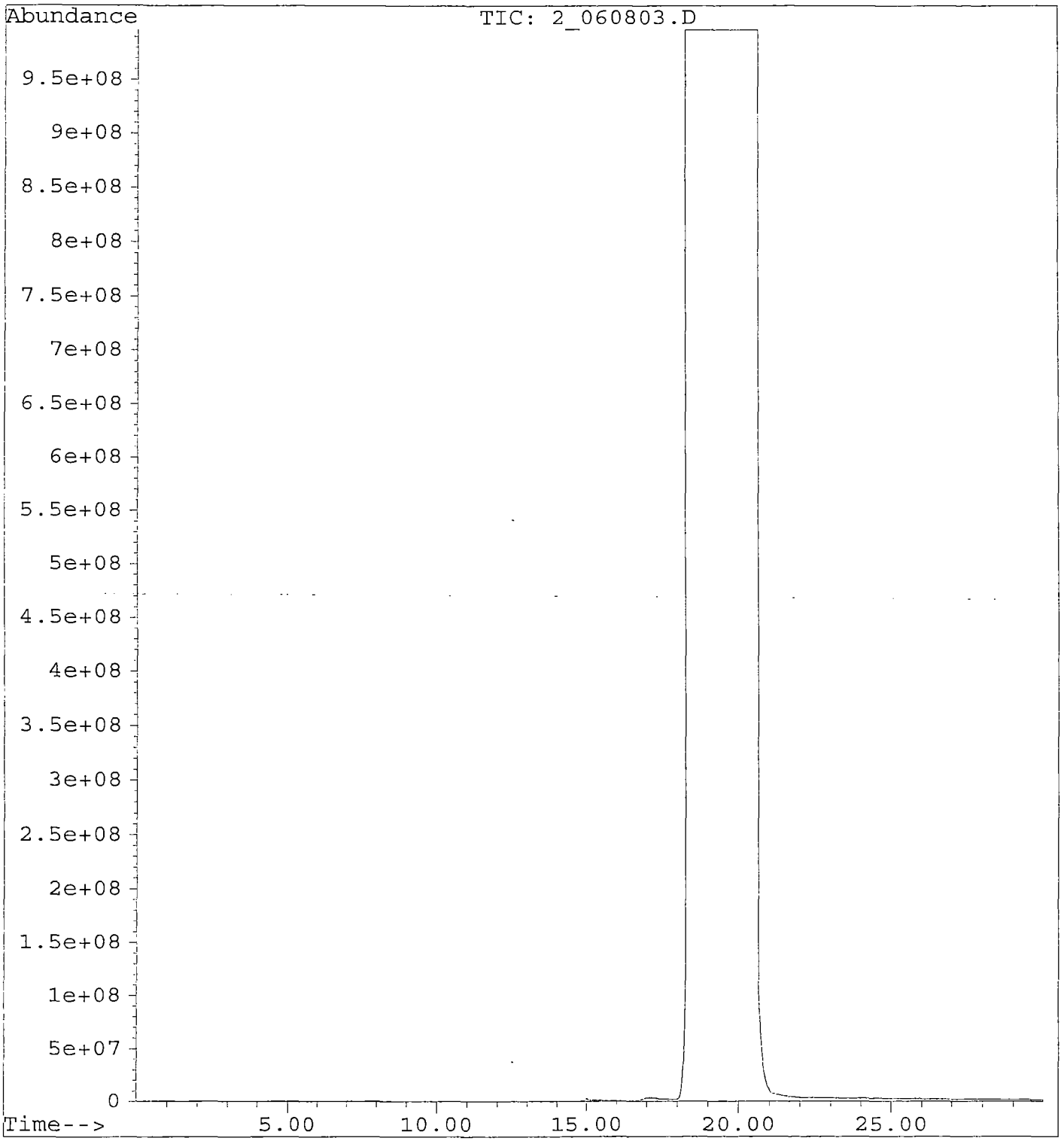
Method : C:\HPCHEM\5\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
11.624	14.075	100.00
14.075	15.693	91.51
15.693	20.656	100.00
20.656	24.429	100.00

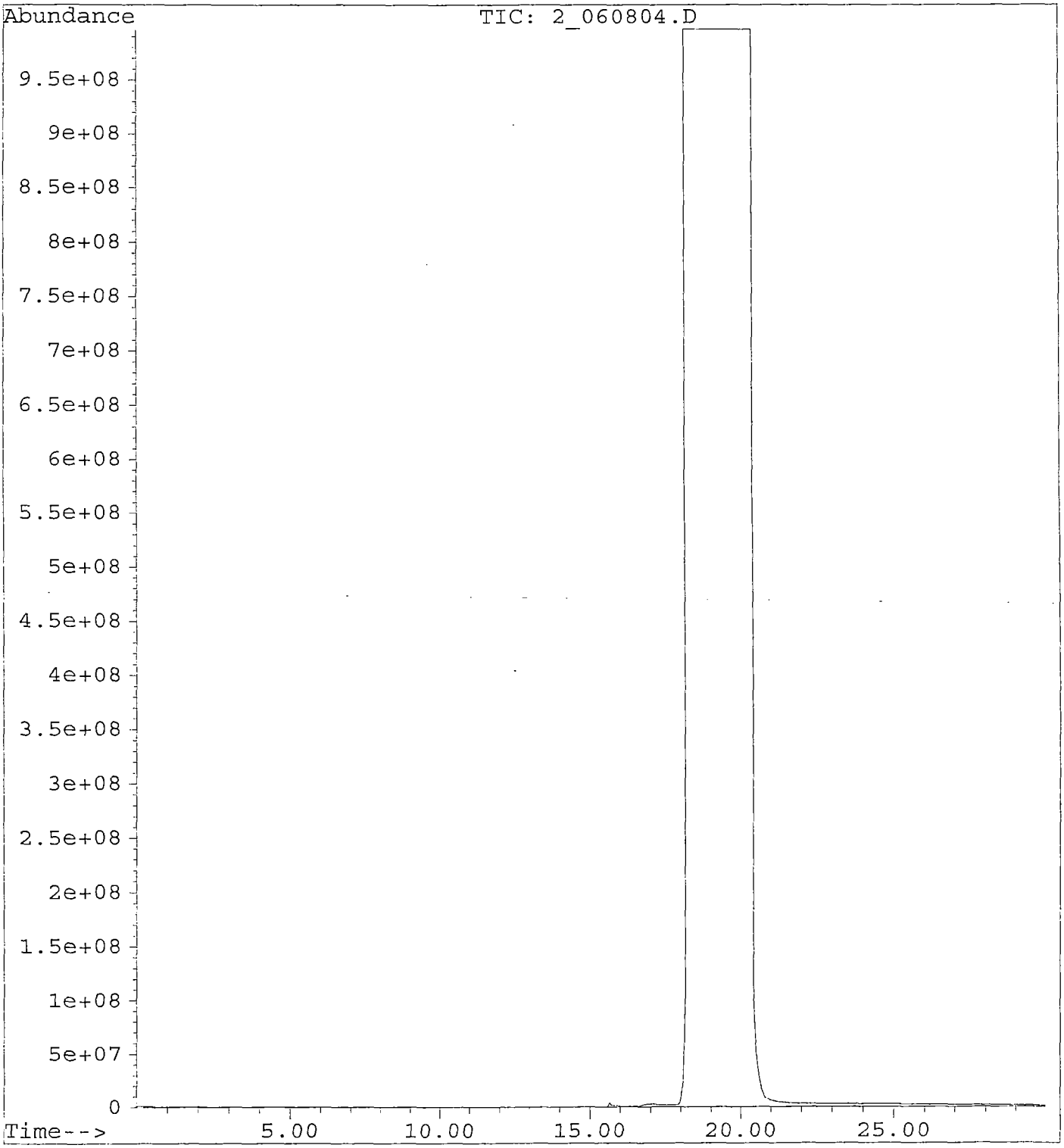
File : C:\HPCHEM\6\DATA\060801\2_060802.D
Operator : CD COL# 364134
Acquired : 08 Jun 01 20:45 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 2



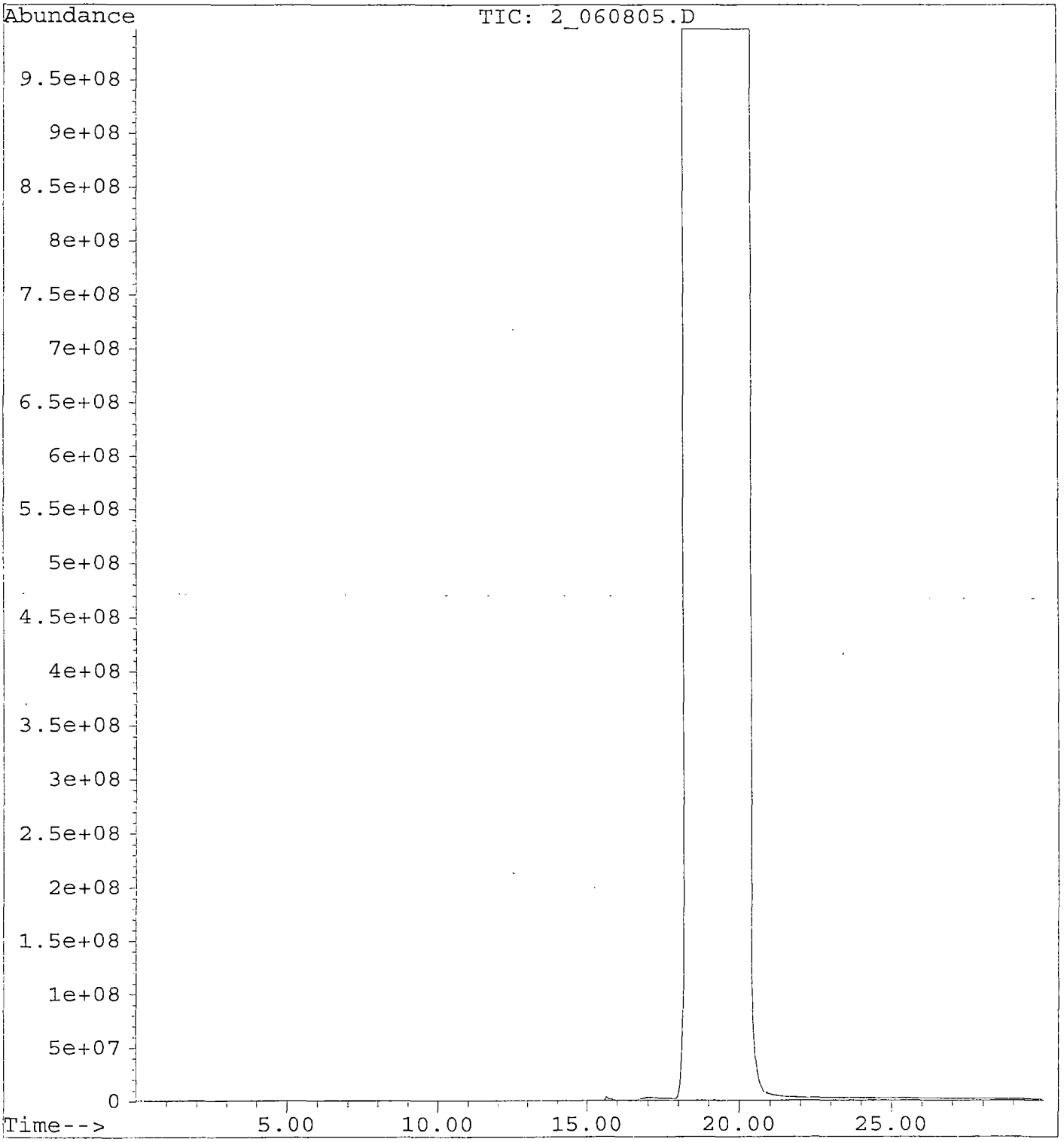
File : C:\HPCHEM\6\DATA\060801\2_060803.D
Operator : CD COL# 364134
Acquired : 08 Jun 01 21:16 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 3



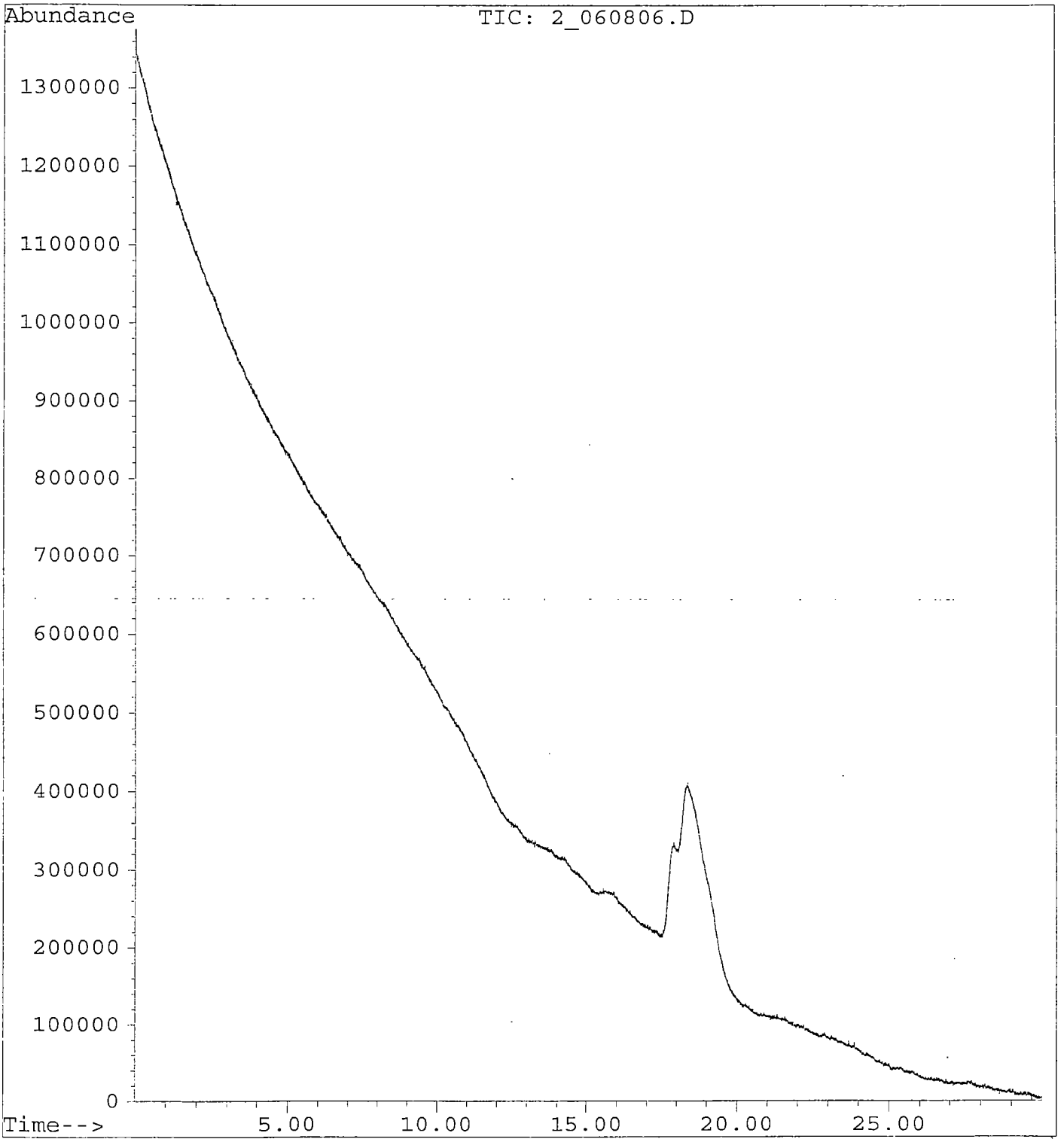
File : C:\HPCHEM\6\DATA\060801\2_060804.D
Operator : CD COL# 364134
Acquired : 08 Jun 01 21:47 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 4



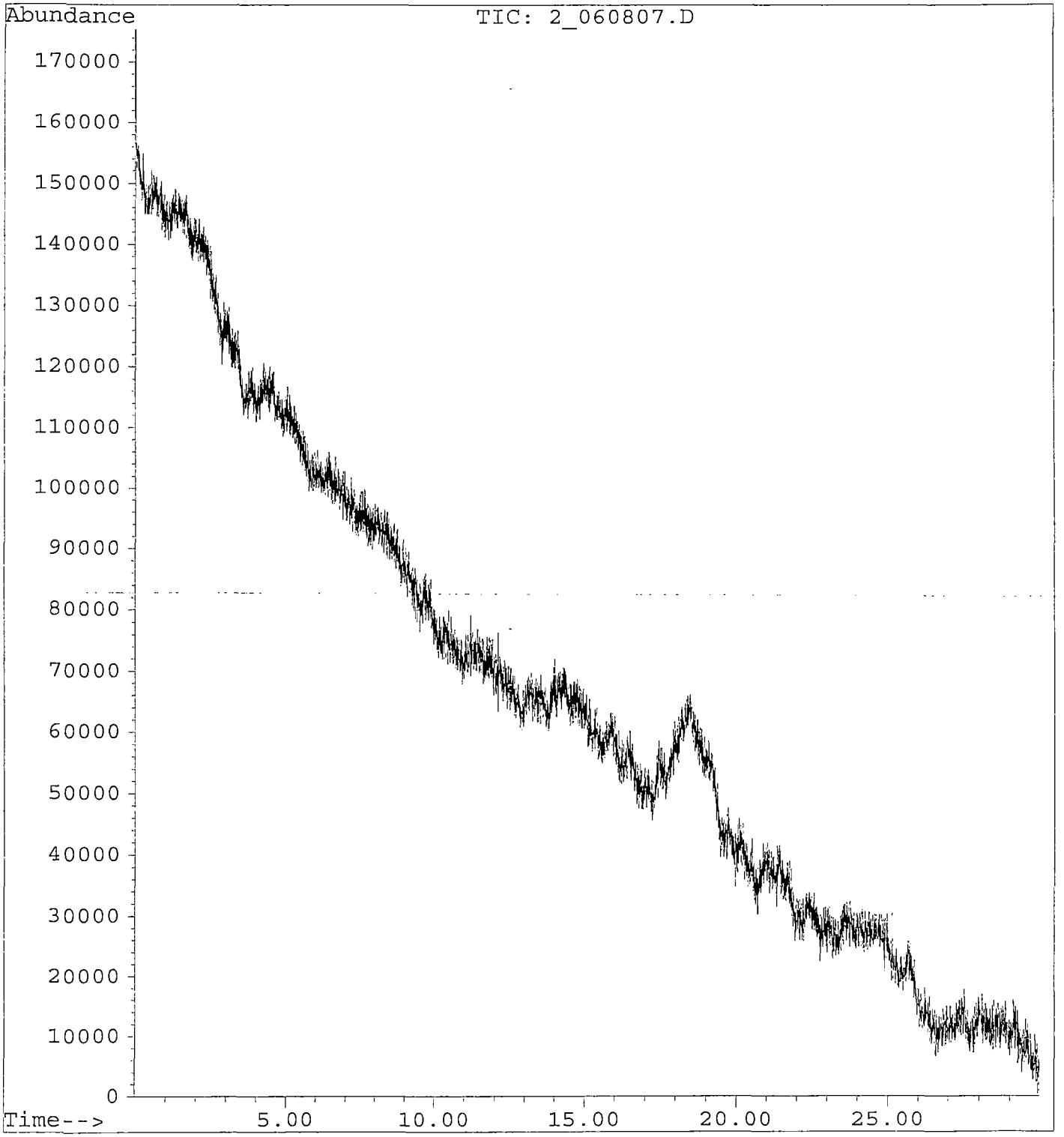
File : C:\HPCHEM\6\DATA\060801\2_060805.D
Operator : CD COL# 364134
Acquired : 08 Jun 01 22:18 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 5



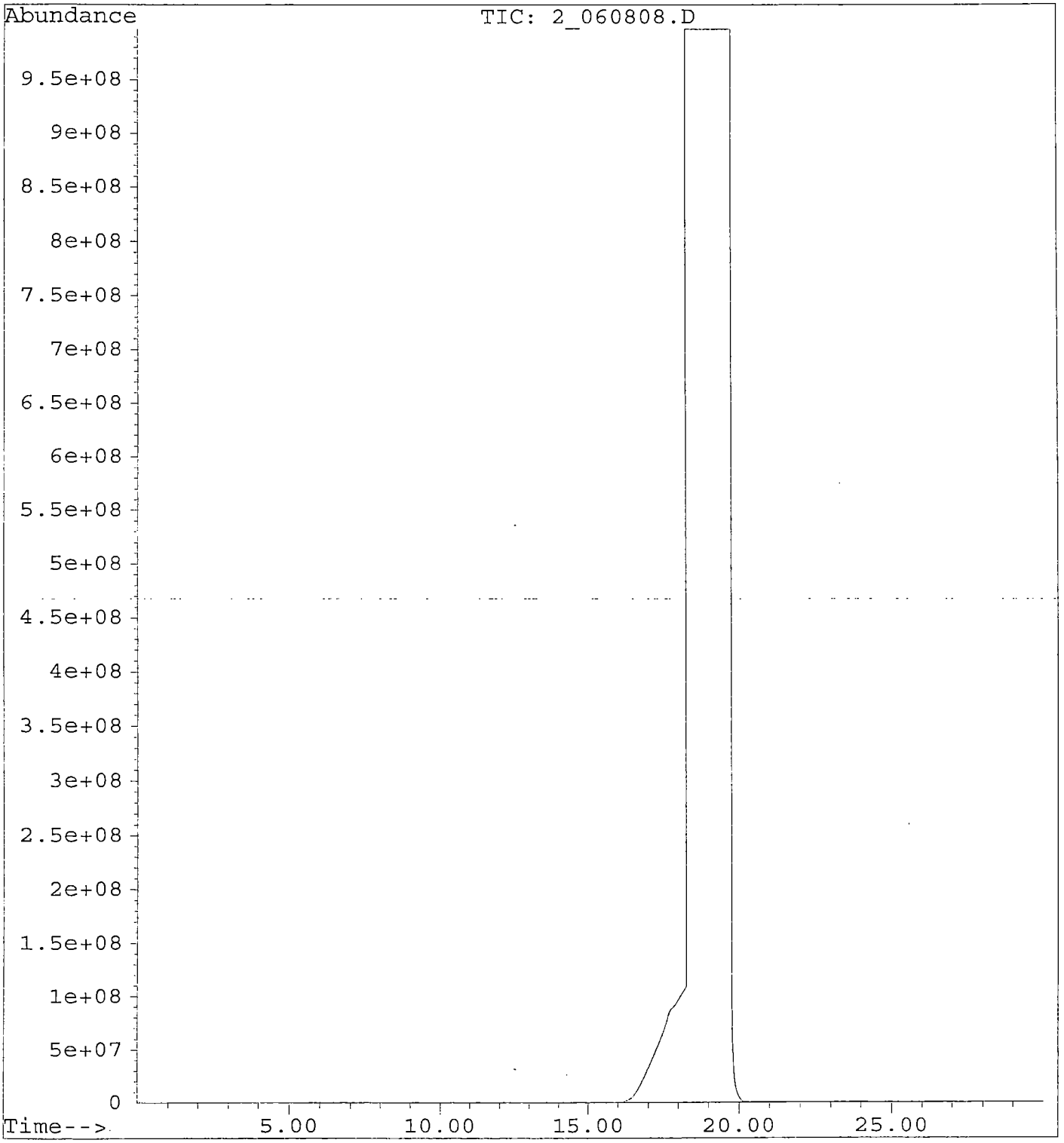
File : C:\HPCHEM\6\DATA\060801\2_060806.D
Operator : CD COL# 364134
Acquired : 08 Jun 01 22:50 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB#060801C (PEST)
Misc Info : COL# 364134
Vial Number: 6



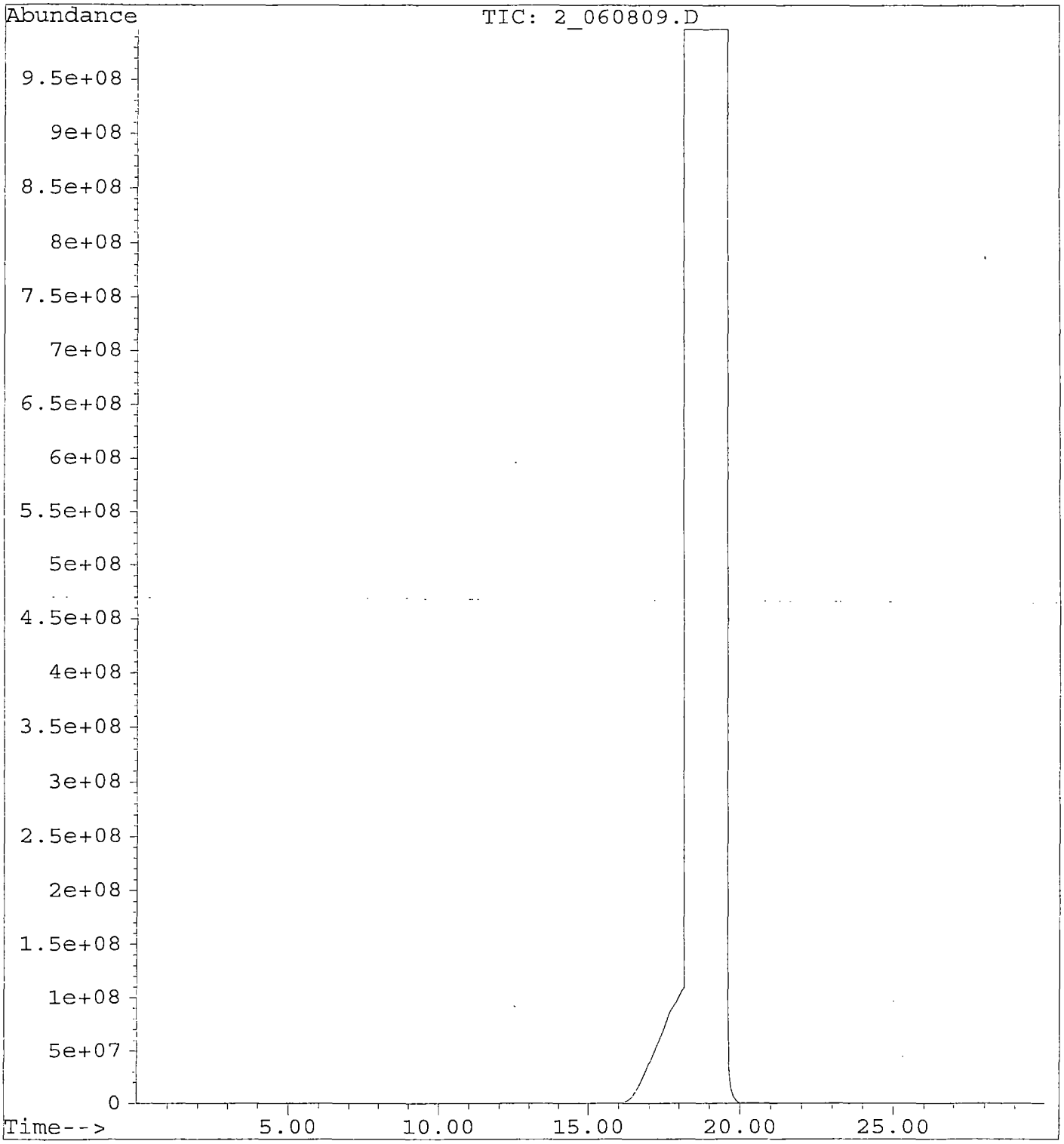
File : C:\HPCHEM\6\DATA\060801\2_060807.D
Operator : CD COL# 364134
Acquired : 08 Jun 01 23:21 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB#060801D (PEST)
Misc Info : COL# 364134
Vial Number: 7



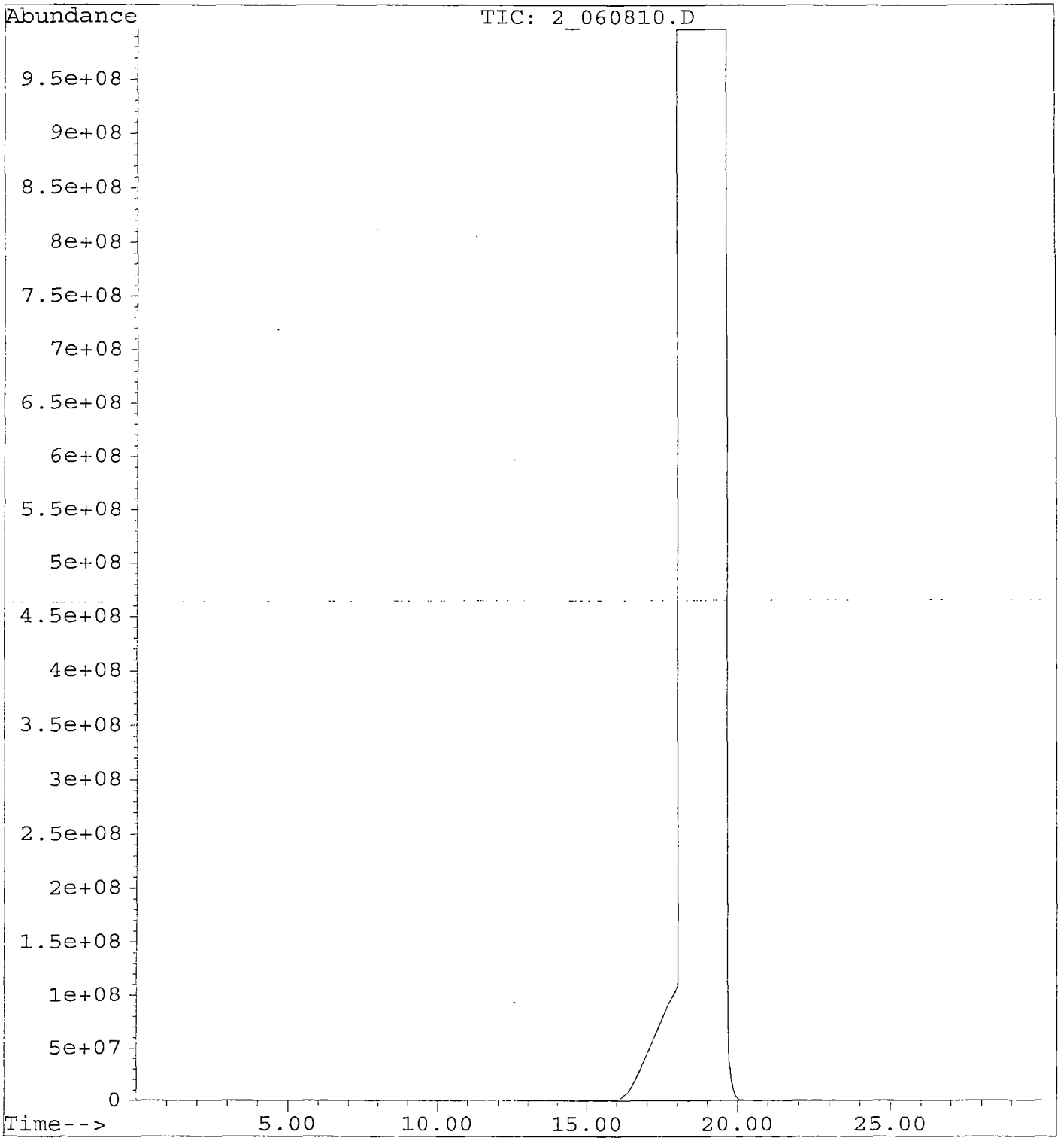
File : C:\HPCHEM\6\DATA\060801\2_060808.D
Operator : CD COL# 364134
Acquired : 08 Jun 01 23:52 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: BL0607SF-EPA
Misc Info : COL# 364134
Vial Number: 8



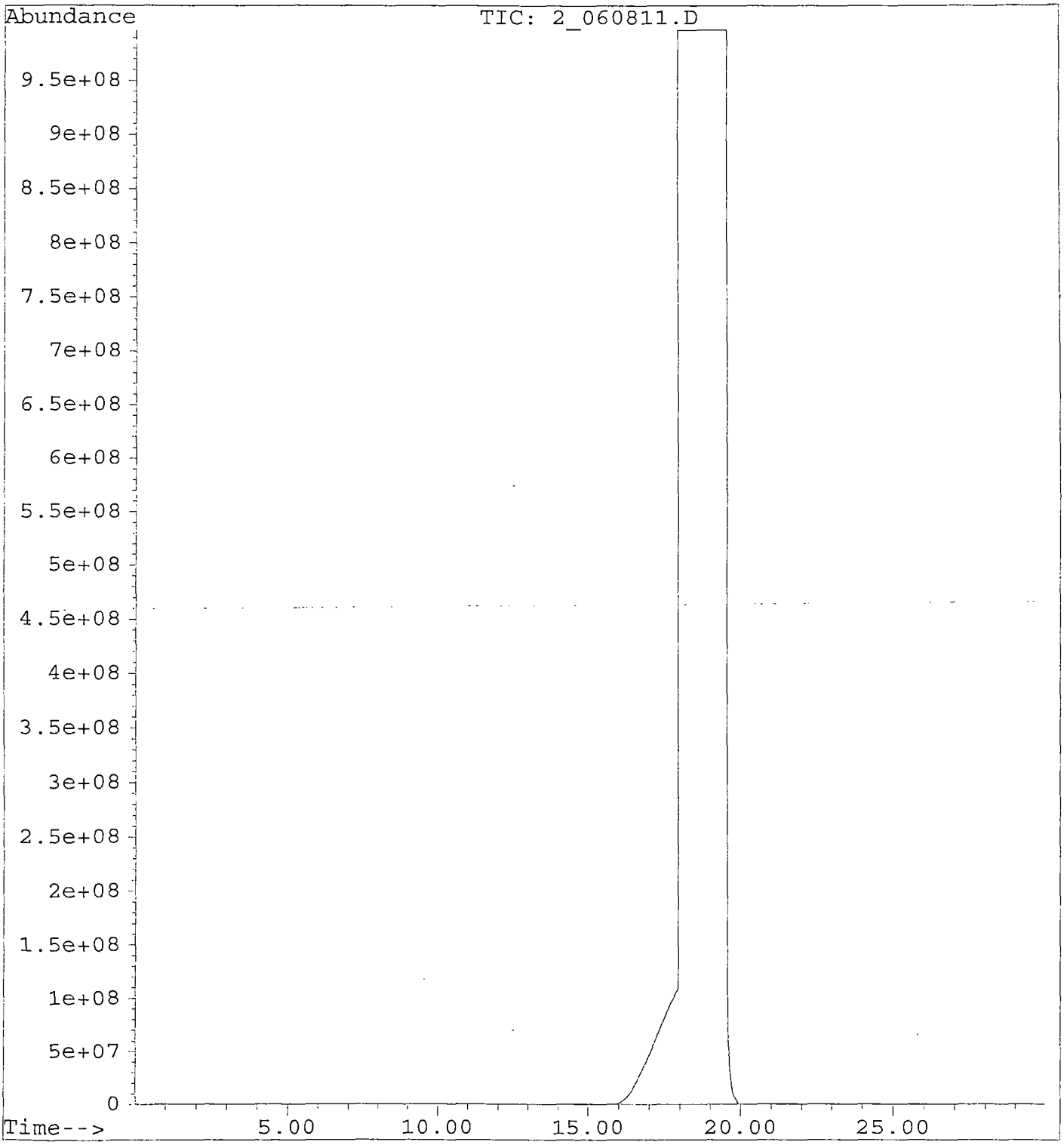
File : C:\HPCHEM\6\DATA\060801\2_060809.D
Operator : CD COL# 364134
Acquired : 09 Jun 01 00:23 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: BB0607SF-EPA
Misc Info : COL# 364134
Vial Number: 9



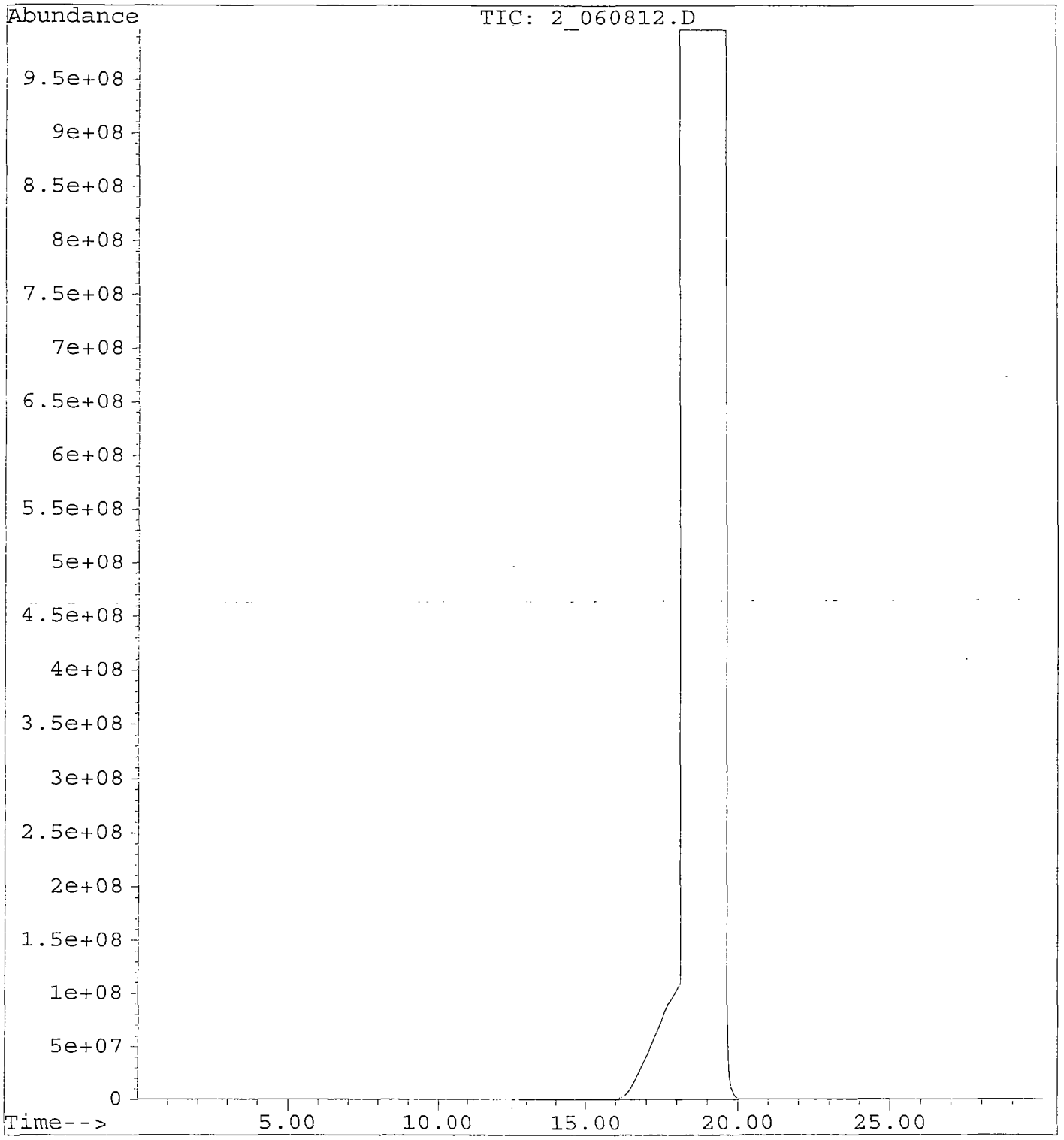
File : C:\HPCHEM\6\DATA\060801\2_060810.D
Operator : CD COL# 364134
Acquired : 09 Jun 01 00:54 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: BL0607SC-EPA
Misc Info : COL# 364134
Vial Number: 10



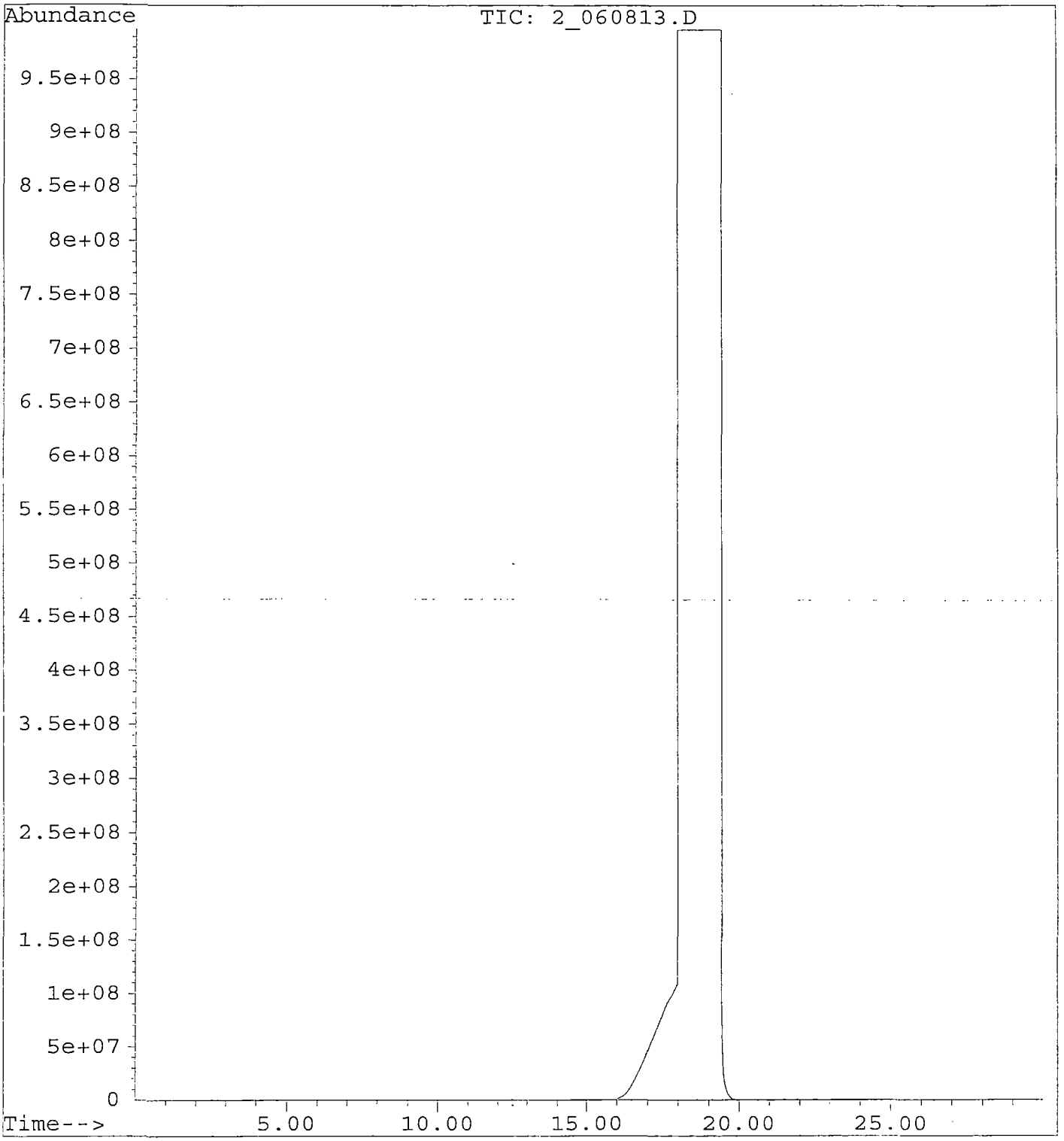
File : C:\HPCHEM\6\DATA\060801\2_060811.D
Operator : CD COL# 364134
Acquired : 09 Jun 01 01:25 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: BB0607SC-EPA
Misc Info : COL# 364134
Vial Number: 11



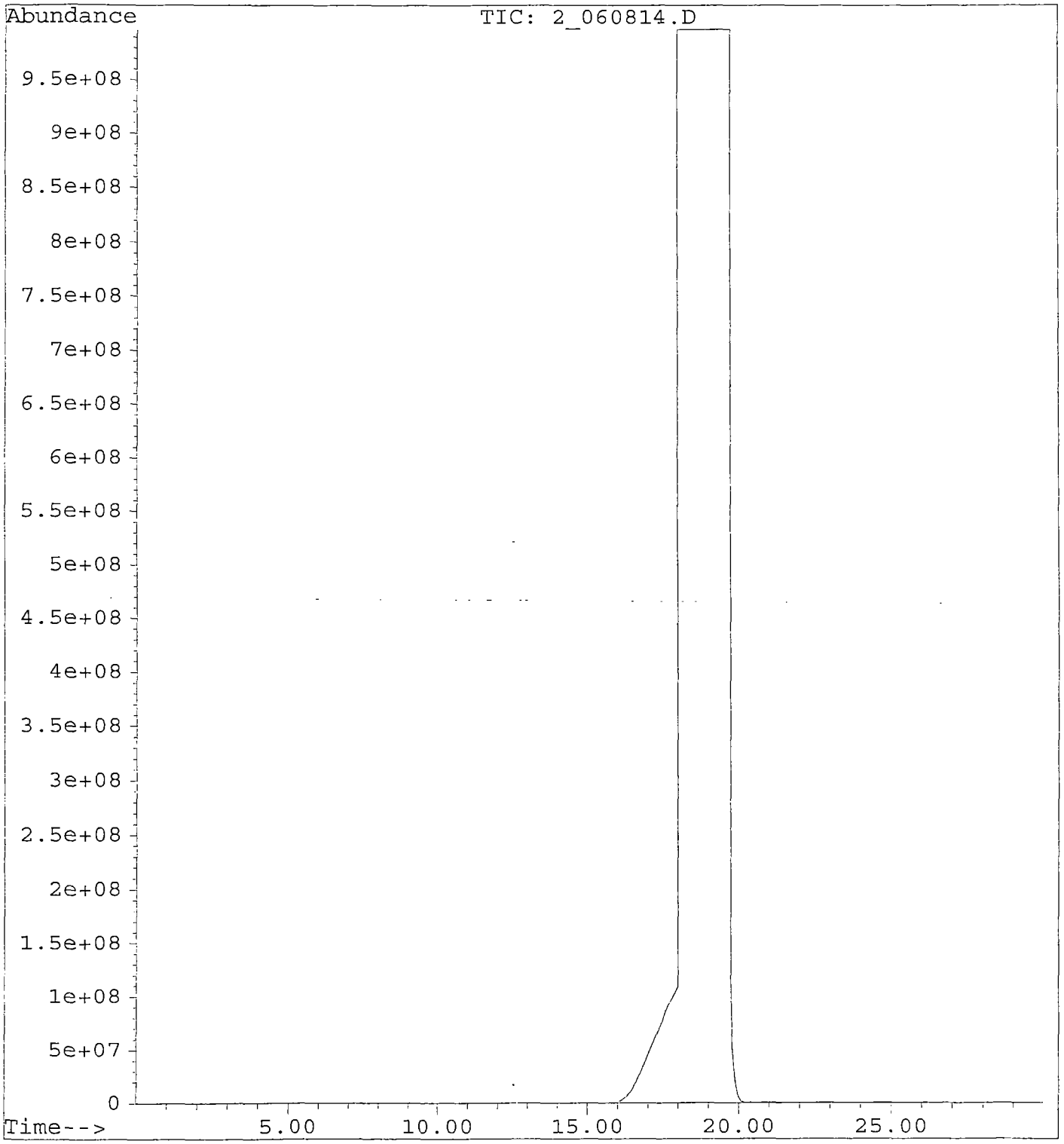
File : C:\HPCHEM\6\DATA\060801\2_060812.D
Operator : CD COL# 364134
Acquired : 09 Jun 01 01:56 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: LC0607SF-EPA
Misc Info : COL# 364134
Vial Number: 12



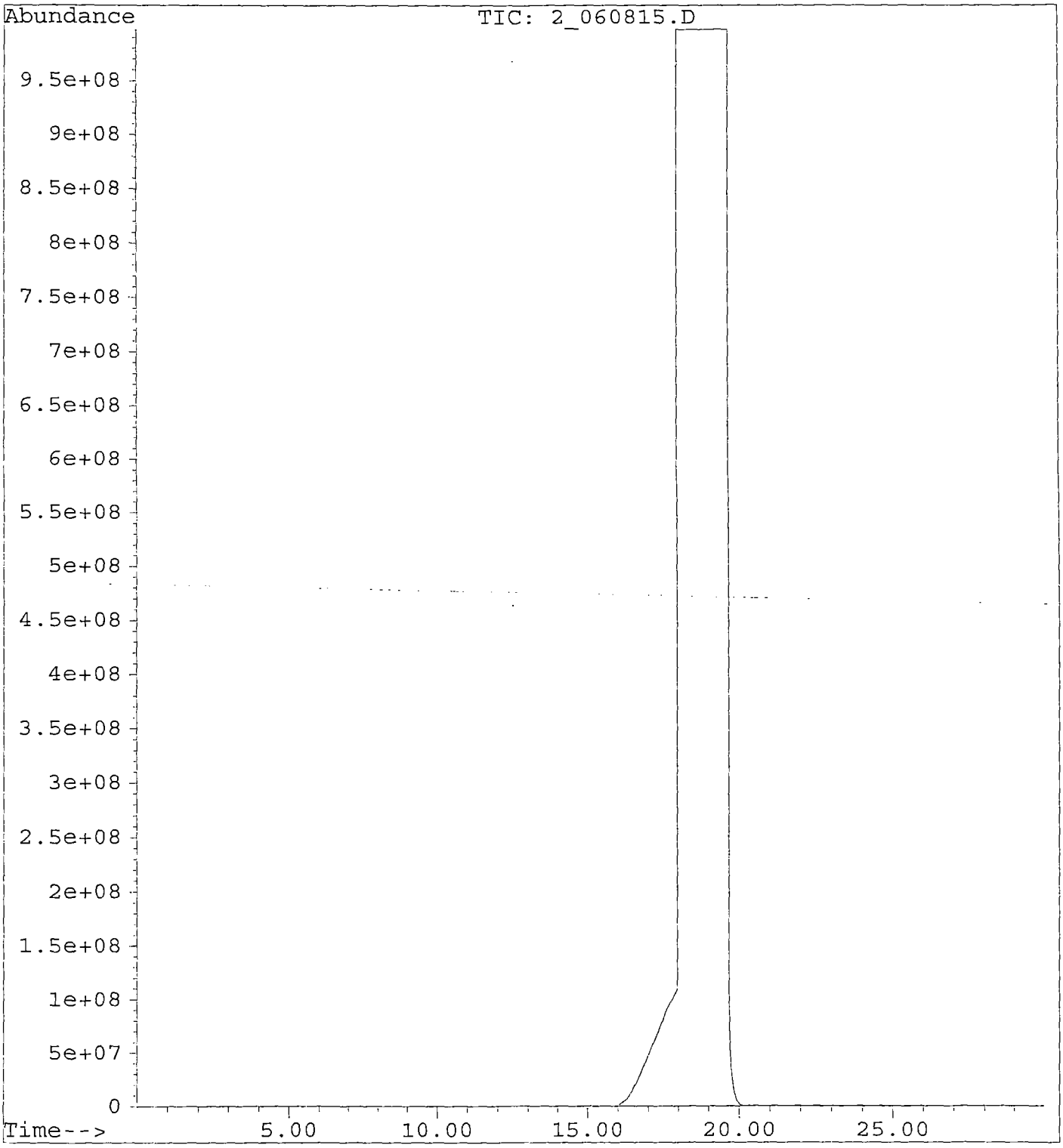
File : C:\HPCHEM\6\DATA\060801\2_060813.D
Operator : CD COL# 364134
Acquired : 09 Jun 01 02:27 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: LD0607SF-EPA
Misc Info : COL# 364134
Vial Number: 13



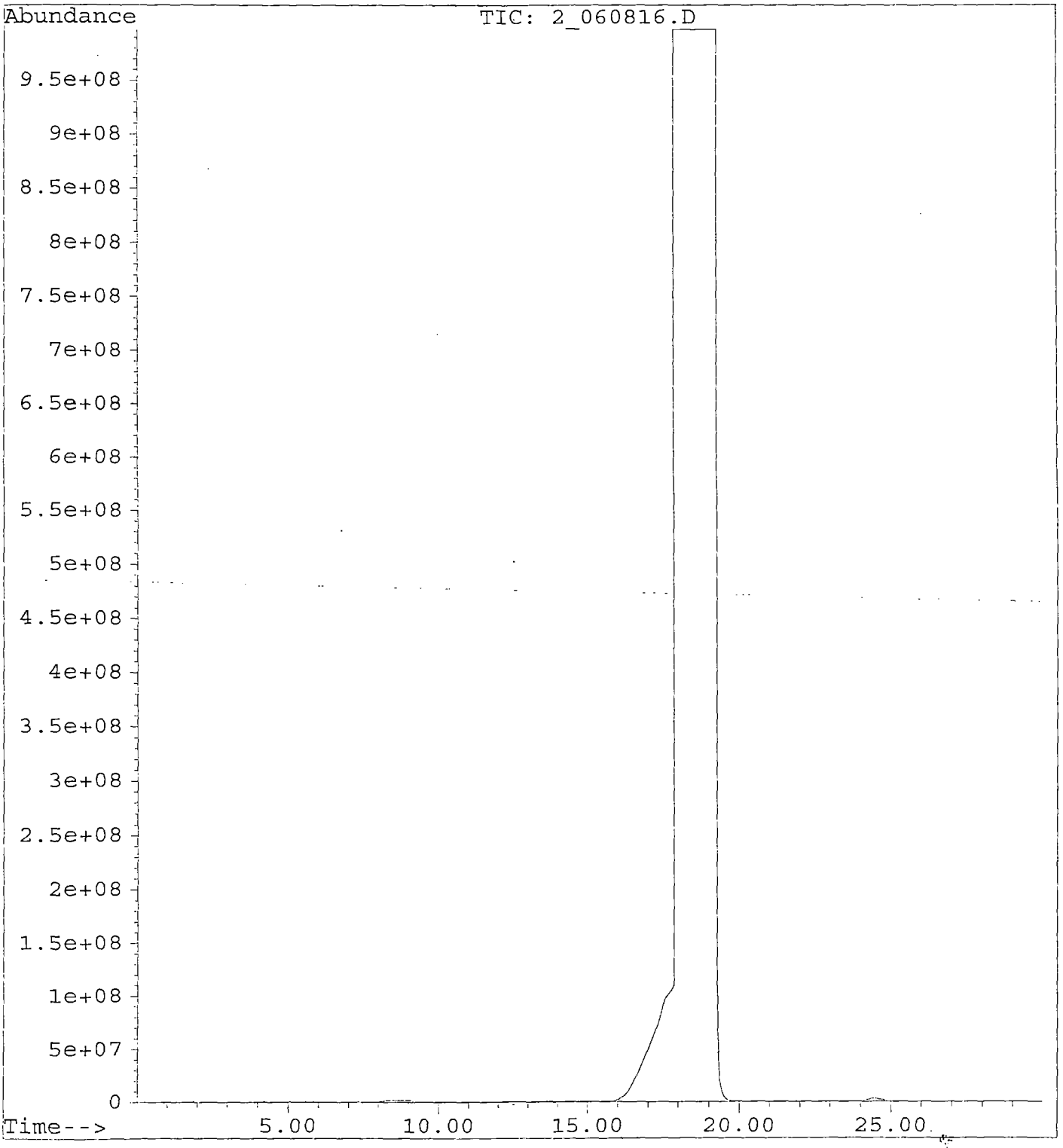
File : C:\HPCHEM\6\DATA\060801\2_060814.D
Operator : CD COL# 364134
Acquired : 09 Jun 01 02:58 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: LC0607SC-EPA
Misc Info : COL# 364134
Vial Number: 14



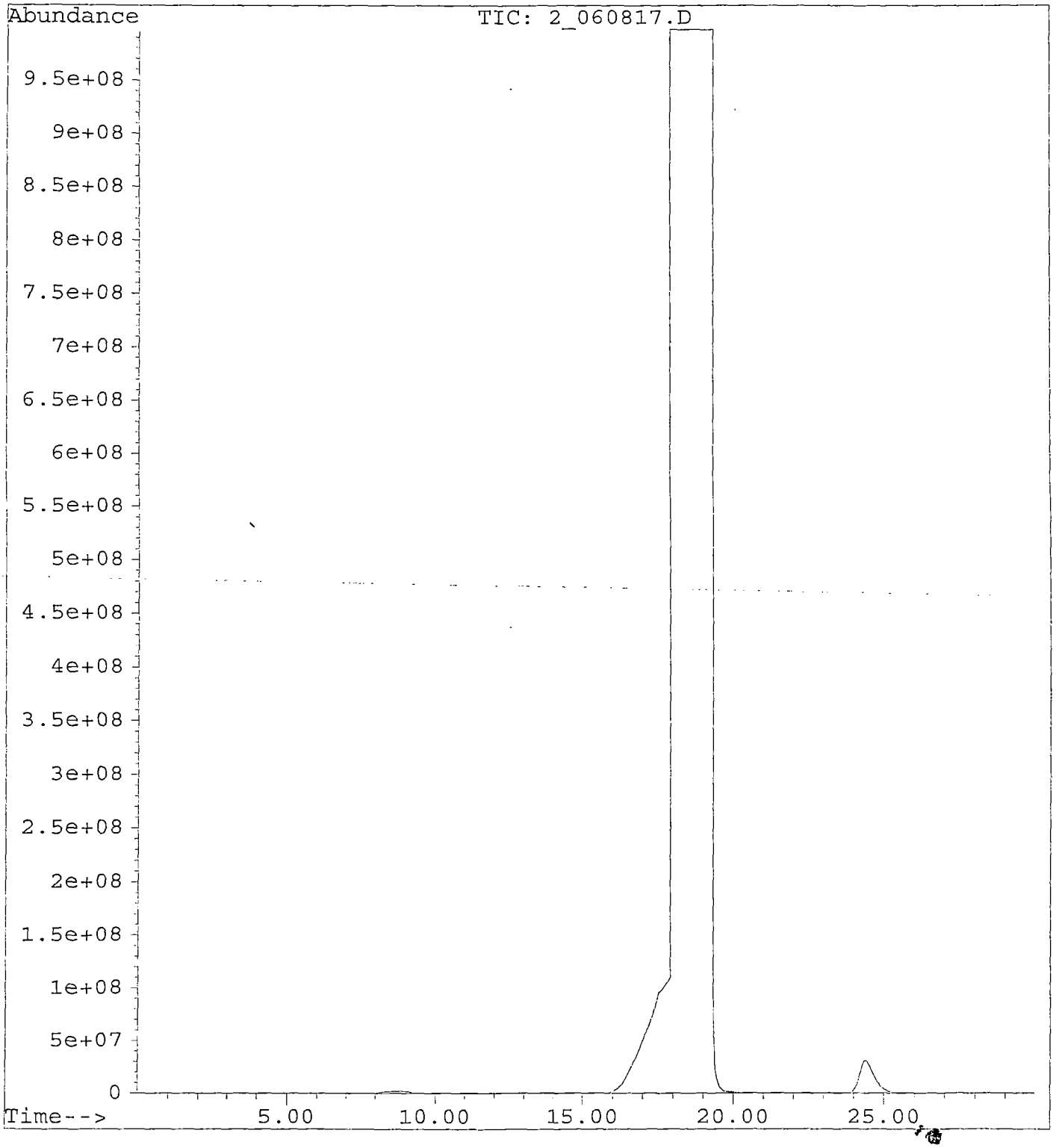
File : C:\HPCHEM\6\DATA\060801\2_060815.D
Operator : CD COL# 364134
Acquired : 09 Jun 01 03:29 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: LD0607SC-EPA
Misc Info : COL# 364134
Vial Number: 15



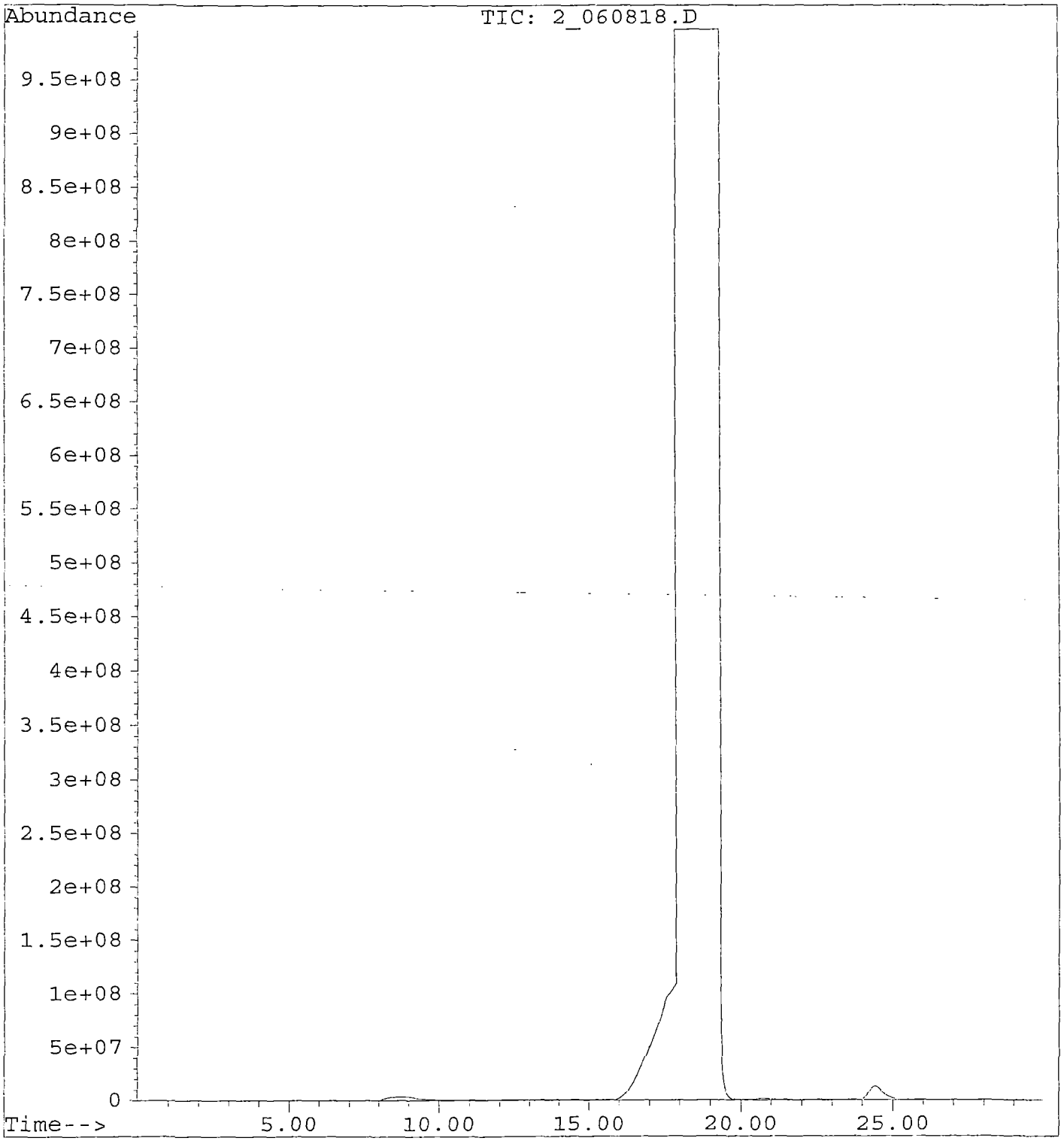
File : C:\HPCHEM\6\DATA\060801\2_060816.D
Operator : CD COL# 364134
Acquired : 09 Jun 01 04:01 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46702.27-E00H0-EPA
Misc Info : COL# 364134
Vial Number: 16



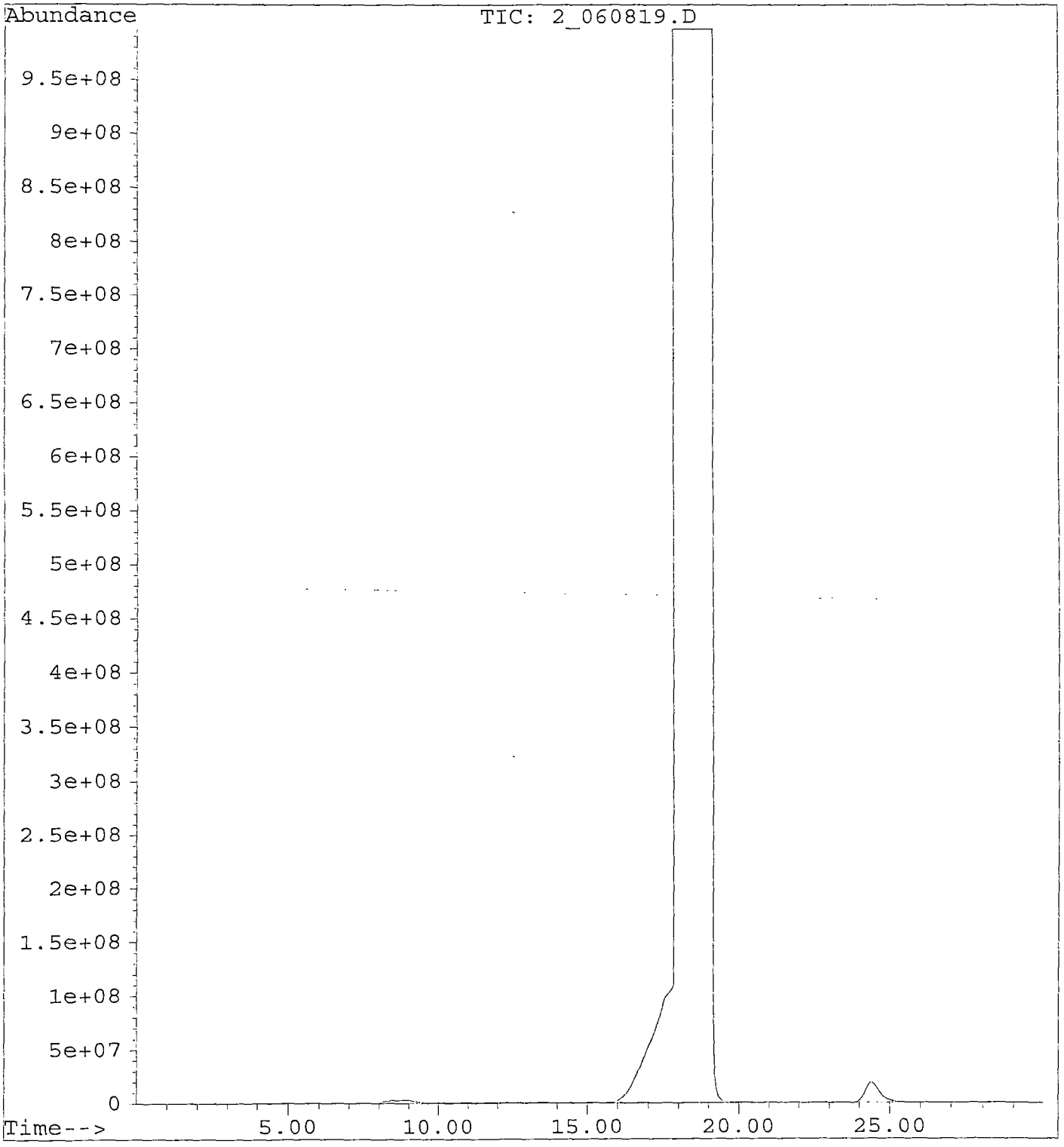
File : C:\HPCHEM\6\DATA\060801\2_060817.D
Operator : CD COL# 364134
Acquired : 09 Jun 01 04:32 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46702.22-E00G5-EPA
Misc Info : COL# 364134
Vial Number: 17



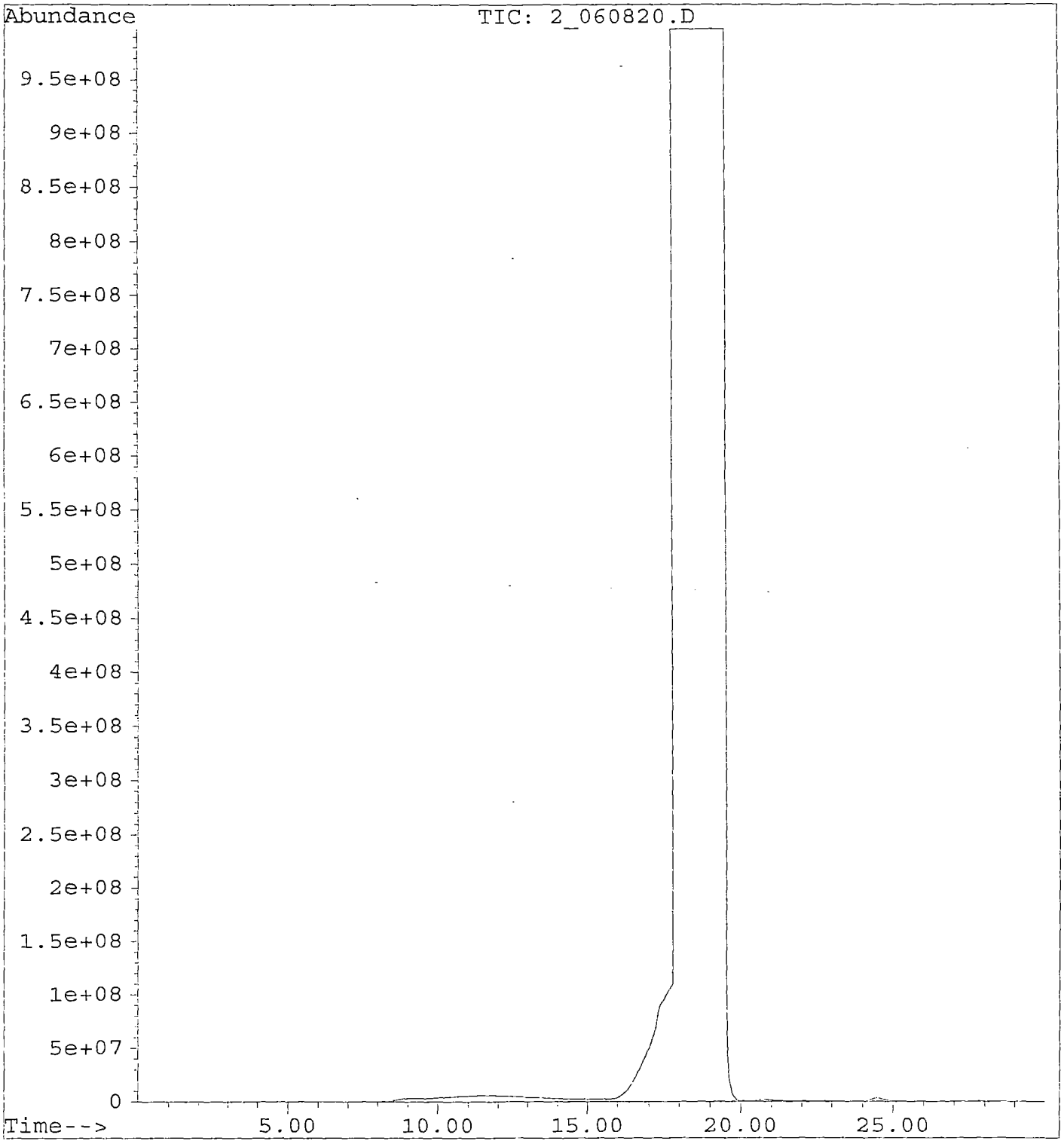
File : C:\HPCHEM\6\DATA\060801\2_060818.D
Operator : CD COL# 364134
Acquired : 09 Jun 01 05:03 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46702.25-E00G8-EPA
Misc Info : COL# 364134
Vial Number: 18



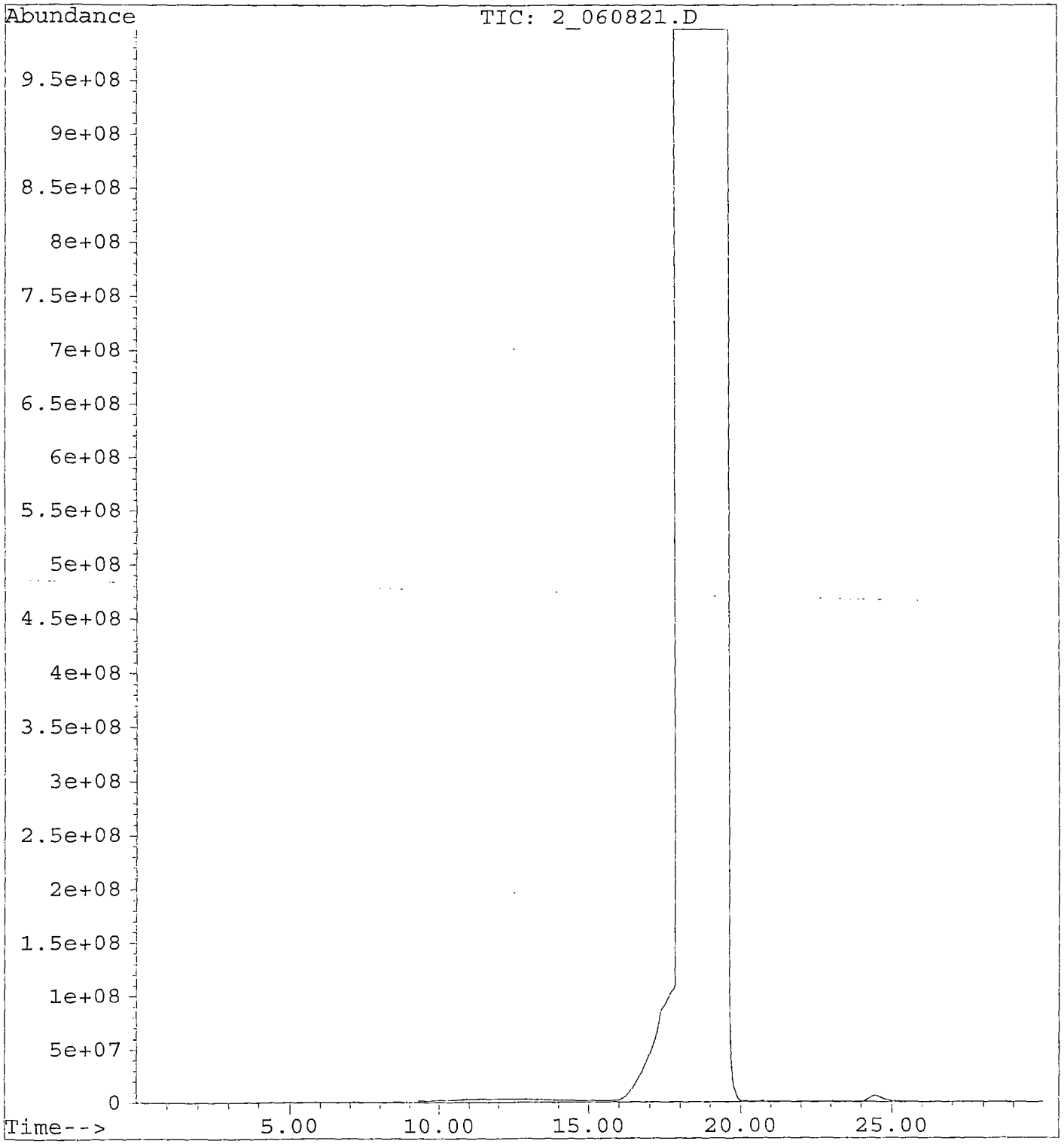
File : C:\HPCHEM\6\DATA\060801\2_060819.D
Operator : CD COL# 364134
Acquired : 09 Jun 01 05:34 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46702.26-E00G9-EPA
Misc Info : COL# 364134
Vial Number: 19



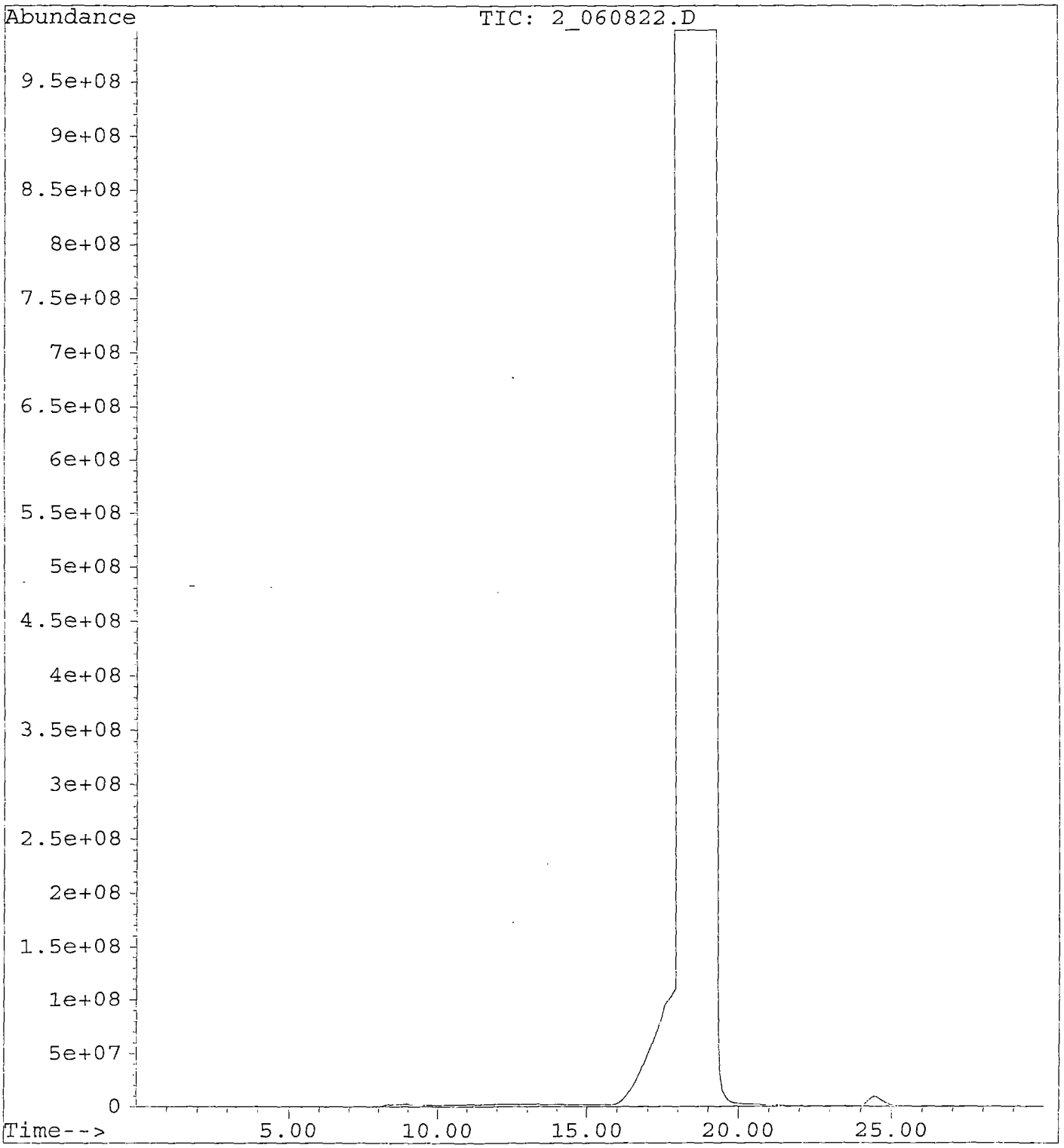
File : C:\HPCHEM\6\DATA\060801\2_060820.D
Operator : CD COL# 364134
Acquired : 09 Jun 01 06:05 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46702.14-E00F6-EPA
Misc Info : COL# 364134
Vial Number: 20



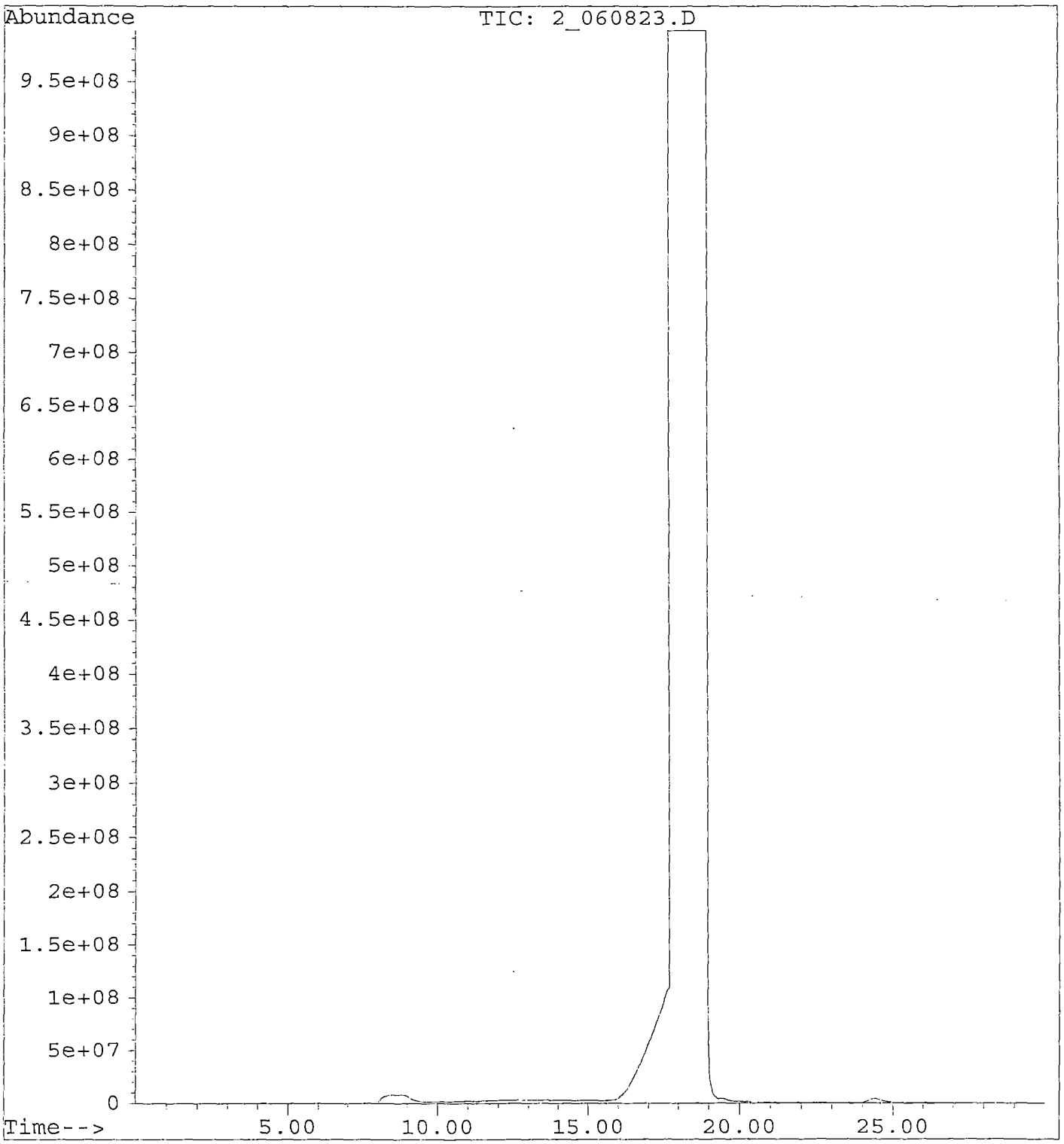
File : C:\HPCHEM\6\DATA\060801\2_060821.D
Operator : CD COL# 364134
Acquired : 09 Jun 01 06:36 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46702.15-E00F7-EPA
Misc Info : COL# 364134
Vial Number: 21



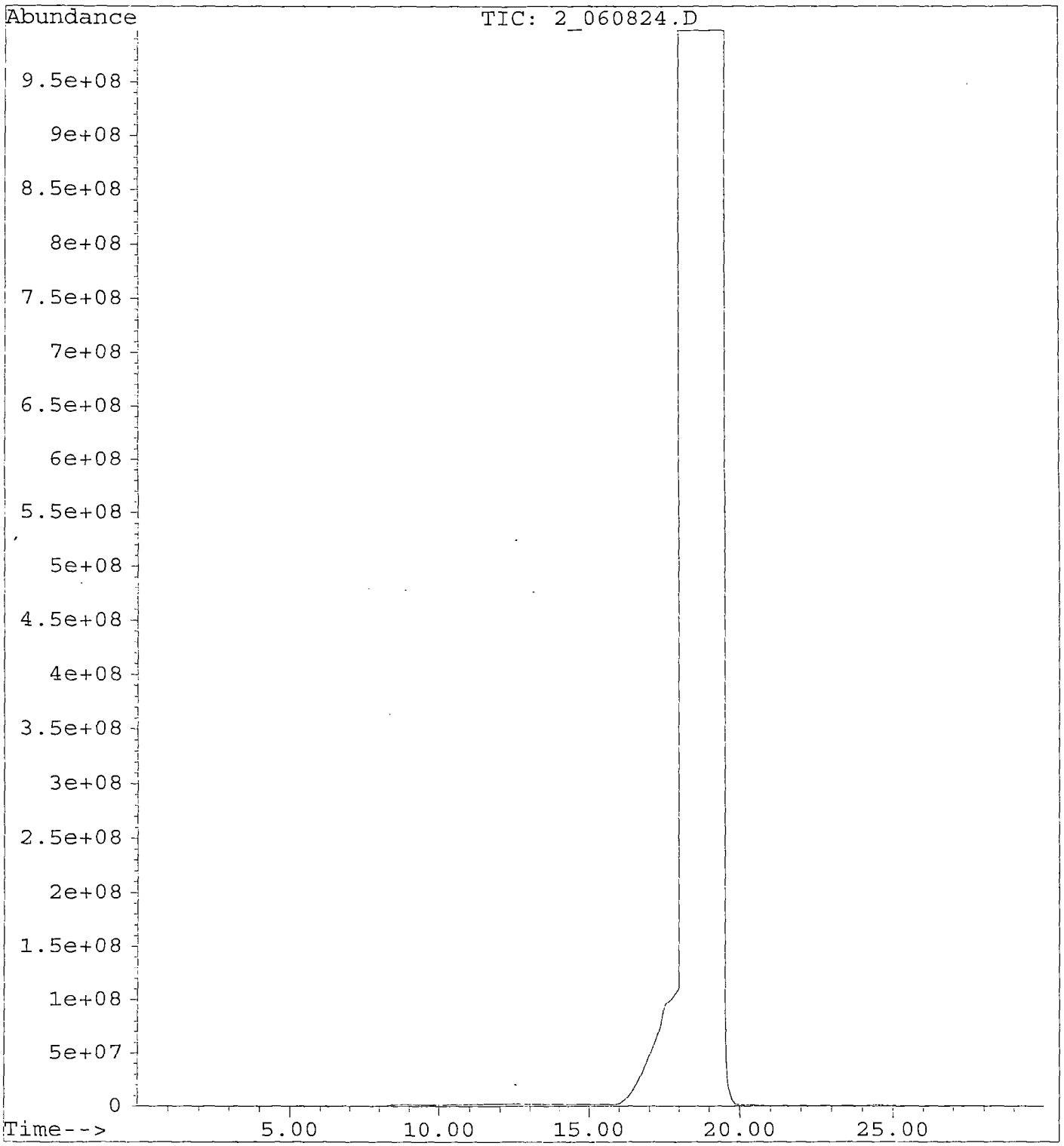
File : C:\HPCHEM\6\DATA\060801\2_060822.D
Operator : CD COL# 364134
Acquired : 09 Jun 01 07:07 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46702.19-E00G2-EPA
Misc Info : COL# 364134
Vial Number: 22



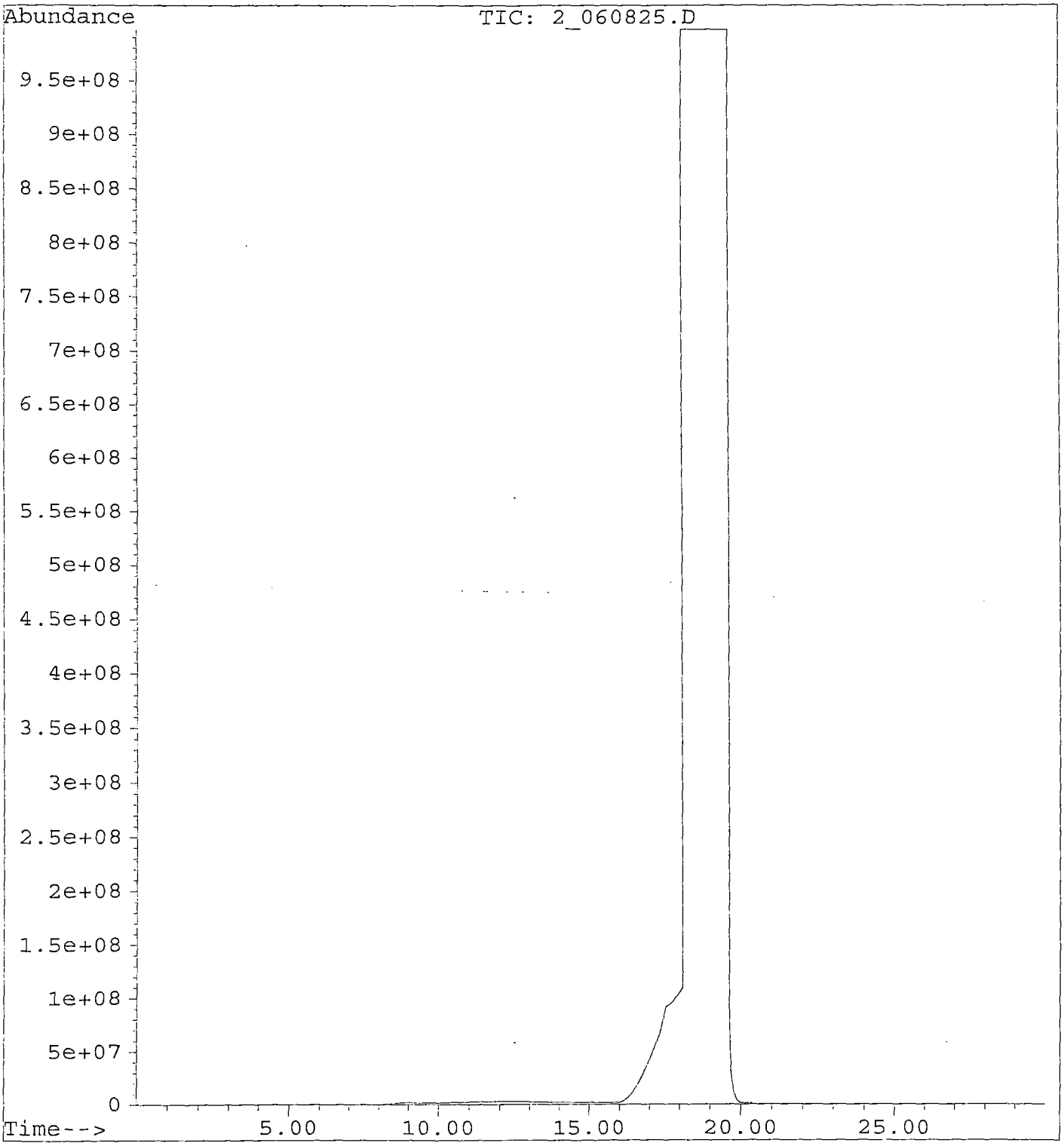
File : C:\HPCHEM\6\DATA\060801\2_060823.D
Operator : CD COL# 364134
Acquired : 09 Jun 01 07:38 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46702.20-E00G3-EPA
Misc Info : COL# 364134
Vial Number: 23



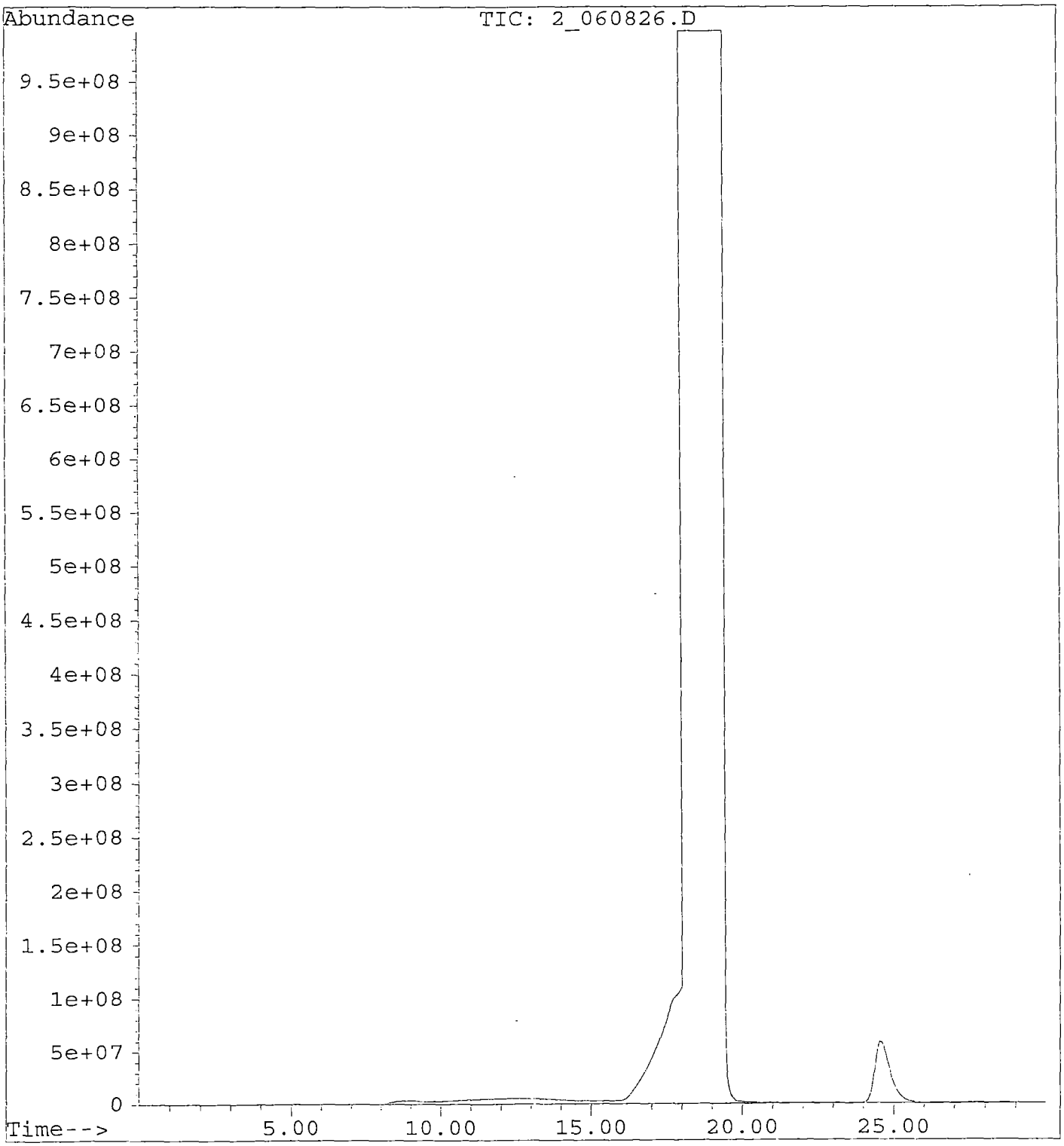
File : C:\HPCHEM\6\DATA\060801\2_060824.D
Operator : CD COL# 364134
Acquired : 09 Jun 01 08:09 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46702.28-E00H1-EPA
Misc Info : COL# 364134
Vial Number: 24



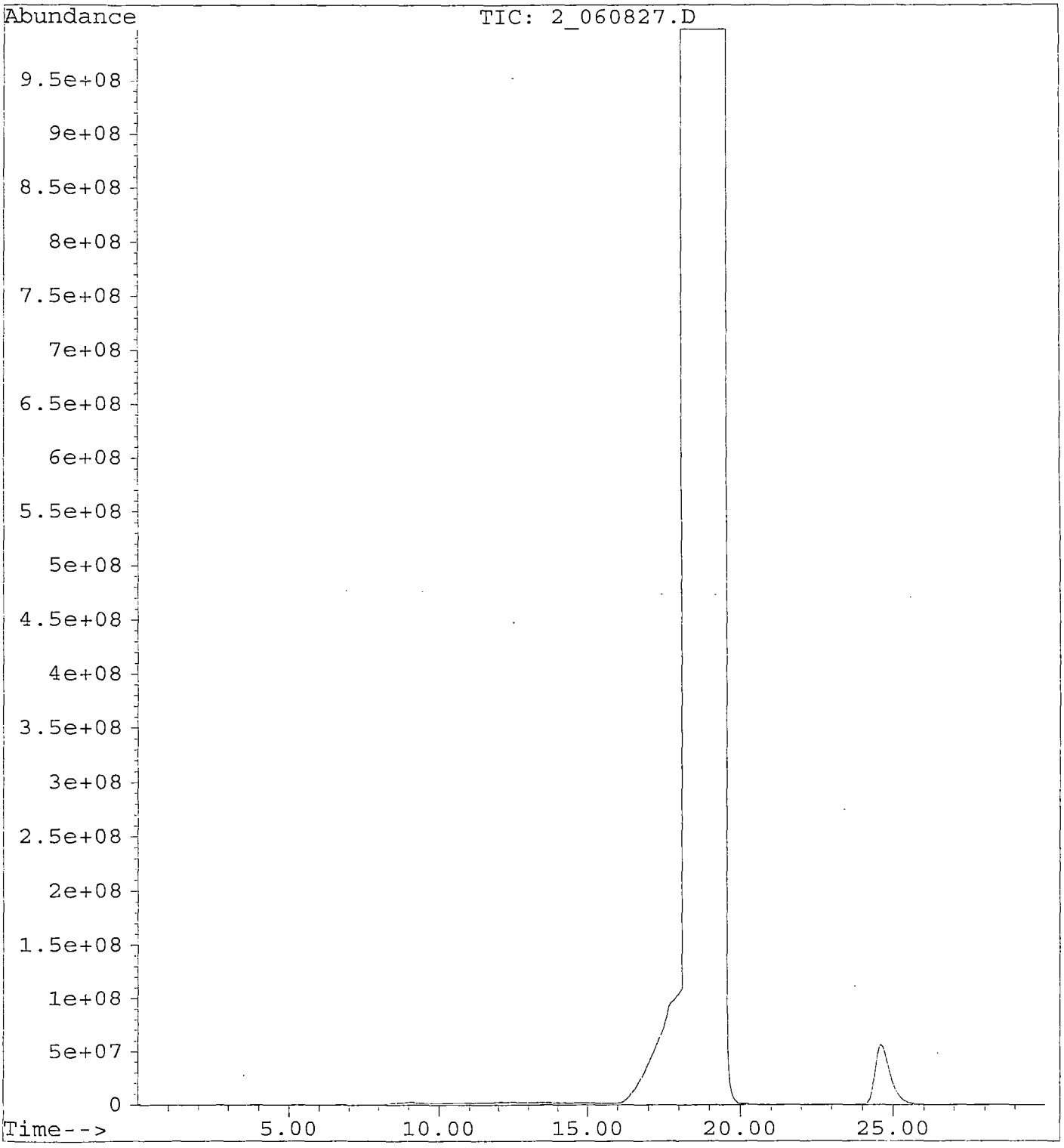
File : C:\HPCHEM\6\DATA\060801\2_060825.D
Operator : CD COL# 364134
Acquired : 09 Jun 01 08:40 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46702.29-E00H3-EPA
Misc Info : COL# 364134
Vial Number: 25



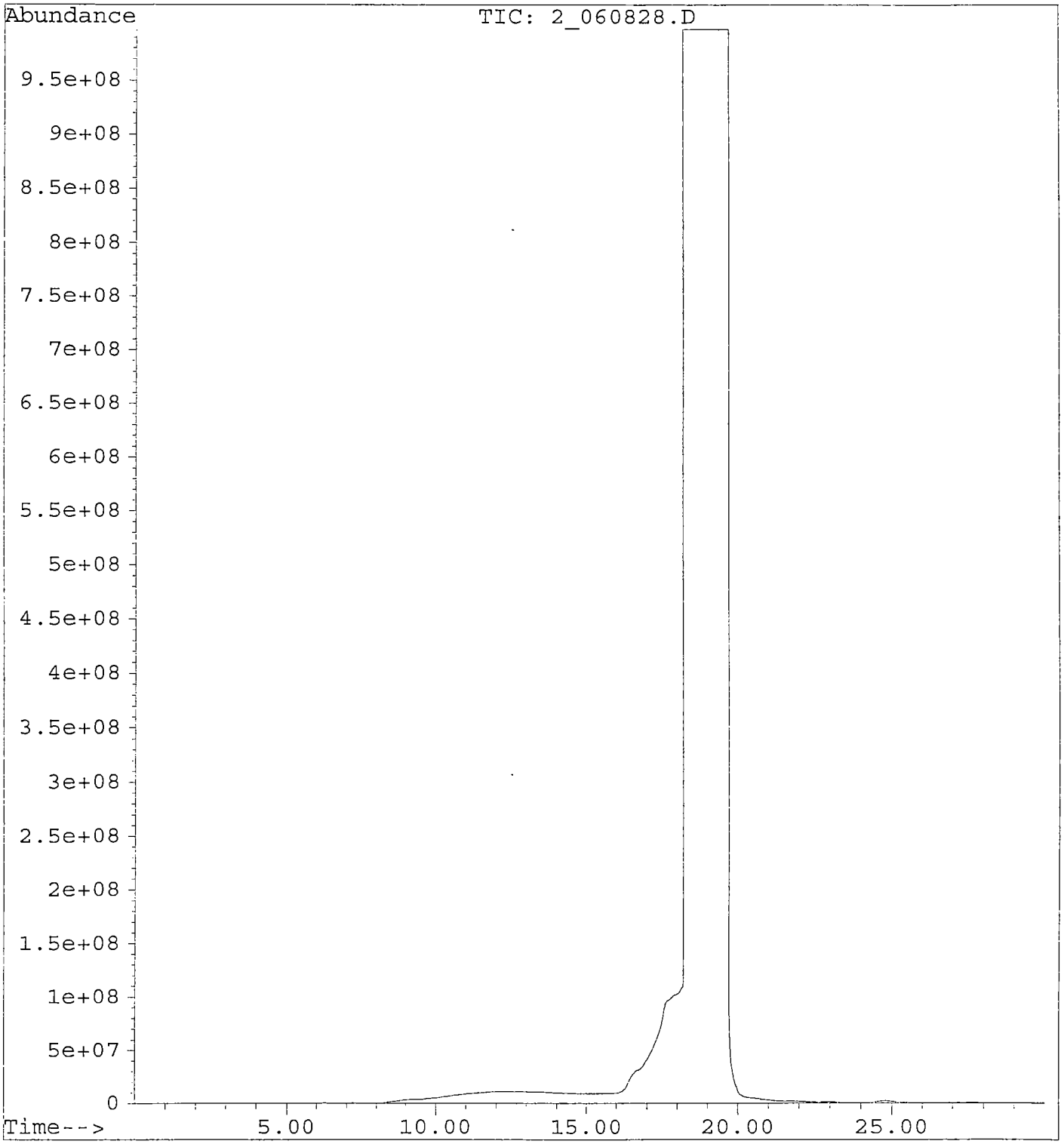
File : C:\HPCHEM\6\DATA\060801\2_060826.D
Operator : CD COL# 364134
Acquired : 09 Jun 01 09:12 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46702.31-E00H6-EPA
Misc Info : COL# 364134
Vial Number: 26



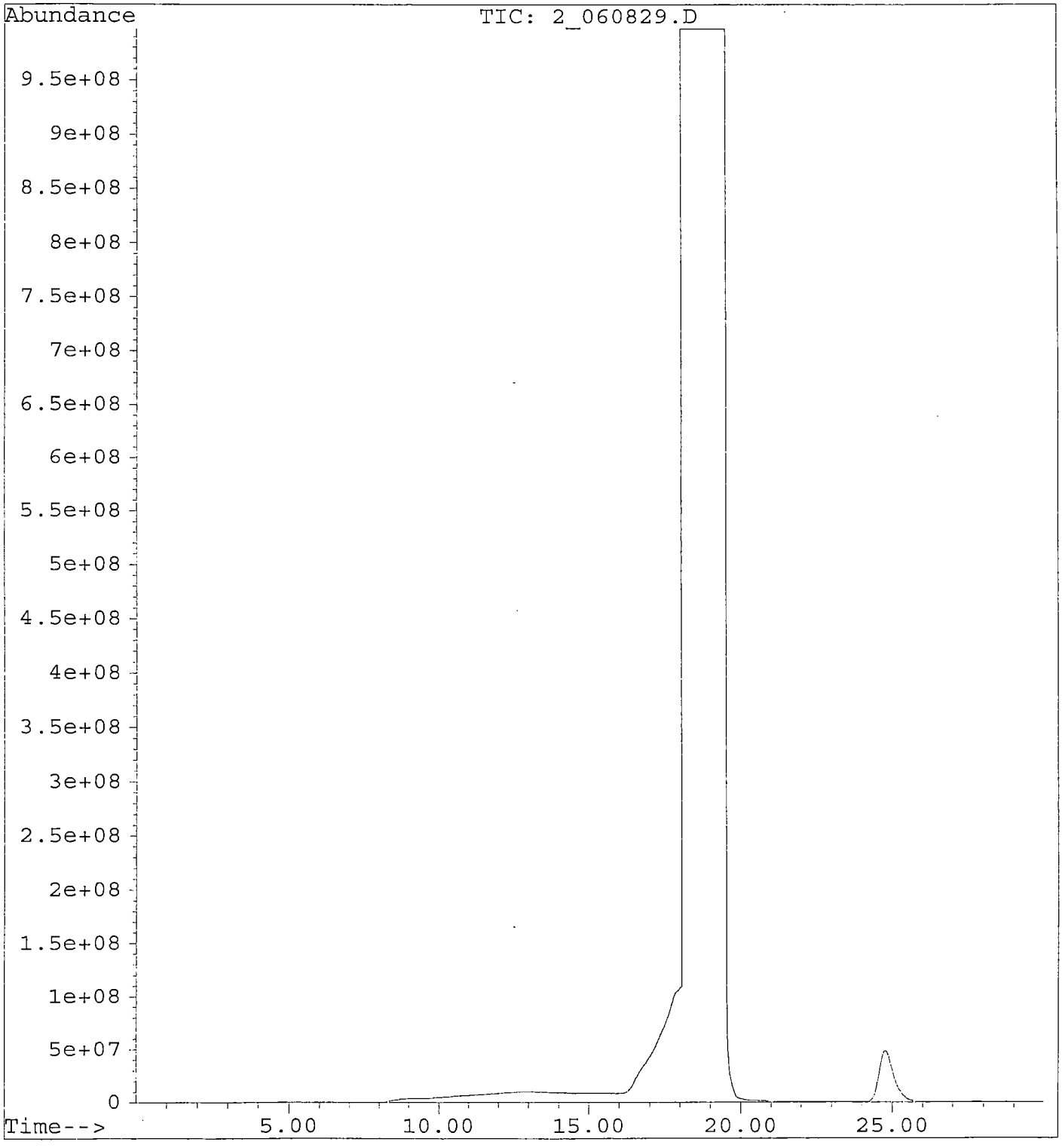
File : C:\HPCHEM\6\DATA\060801\2_060827.D
Operator : CD COL# 364134
Acquired : 09 Jun 01 09:43 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46702.32-E00H7-EPA
Misc Info : COL# 364134
Vial Number: 27



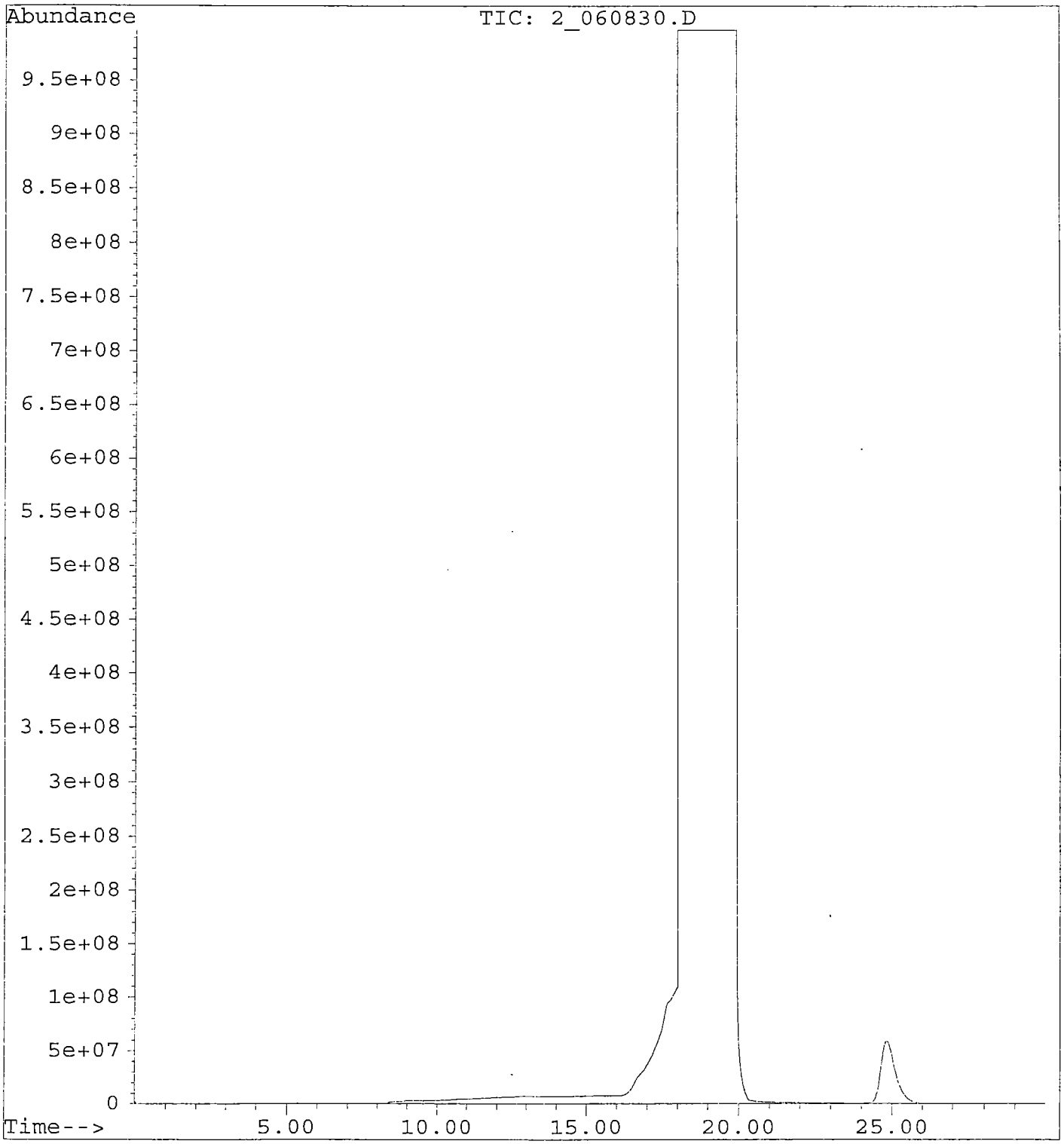
File : C:\HPCHEM\6\DATA\060801\2_060828.D
Operator : CD COL# 364134
Acquired : 09 Jun 01 10:14 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46702.24-E00G7-EPA
Misc Info : COL# 364134
Vial Number: 28



File : C:\HPCHEM\6\DATA\060801\2_060829.D
Operator : CD COL# 364134
Acquired : 09 Jun 01 10:45 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46702.16-E00F8-EPA
Misc Info : COL# 364134
Vial Number: 29

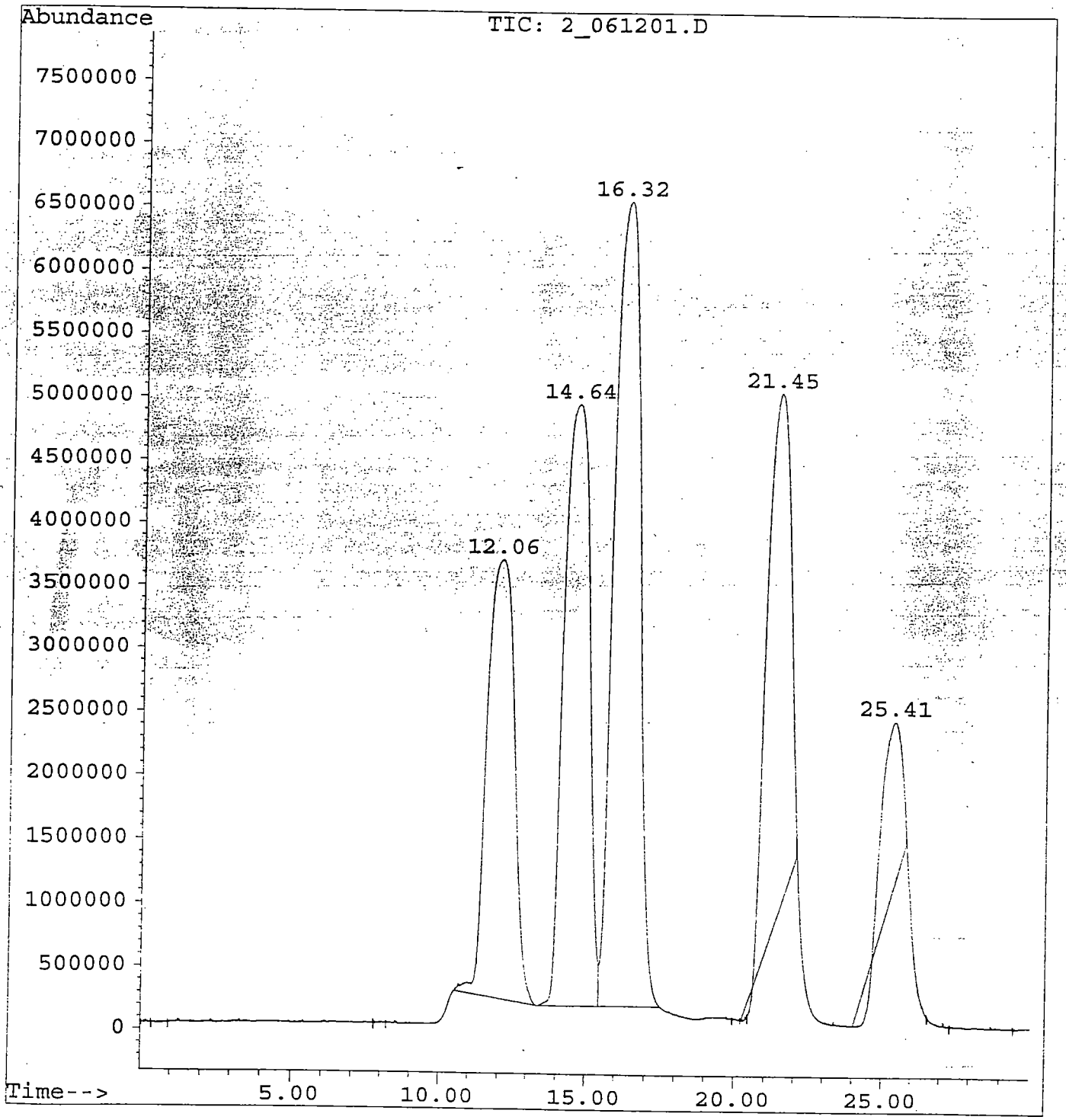


File : C:\HPCHEM\6\DATA\060801\2_060830.D
Operator : CD COL# 364134
Acquired : 09 Jun 01 11:16 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46702.17-E00G0-EPA
Misc Info : COL# 364134
Vial Number: 30



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

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061279.D\ECD1A.CH Vial: 79
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061279.D\ECD2B.CH
Acq On : 13 Jun 2001 18:41 Operator: DDC
Sample : SB060801C *SB060801C * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 14 10:14 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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	ug/L	ug/L

System Monitoring Compounds:

Target Compounds:

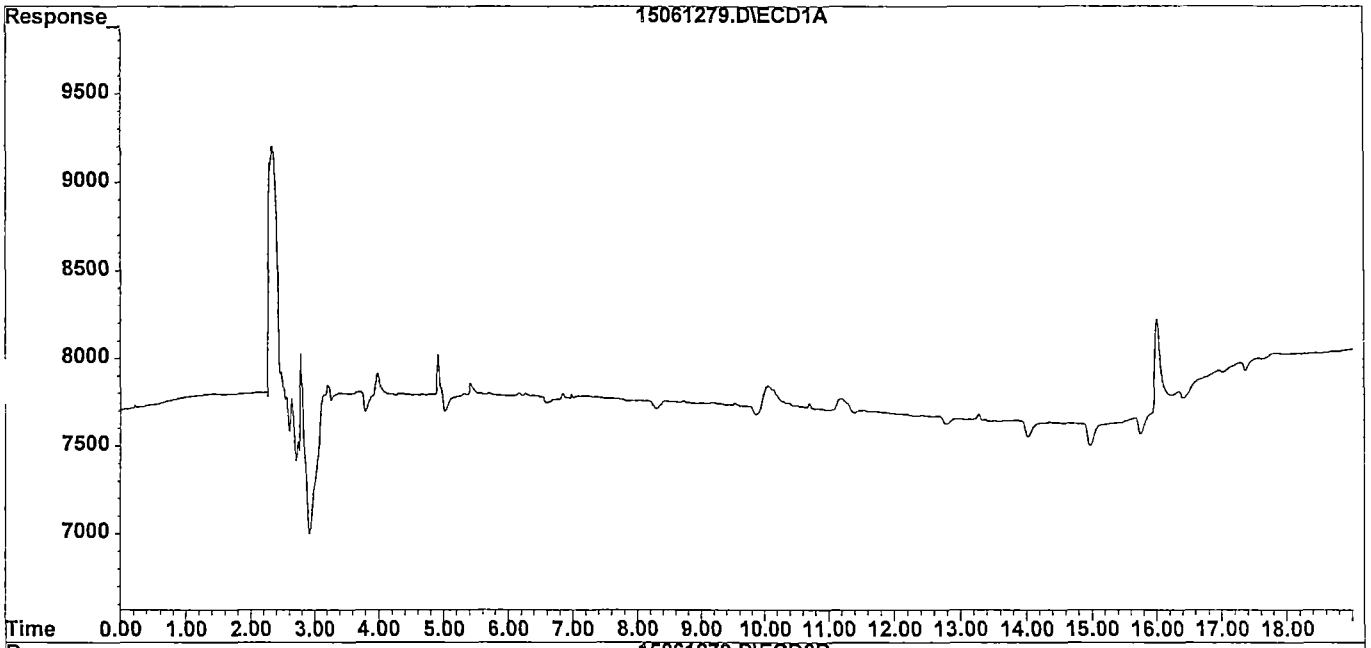
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

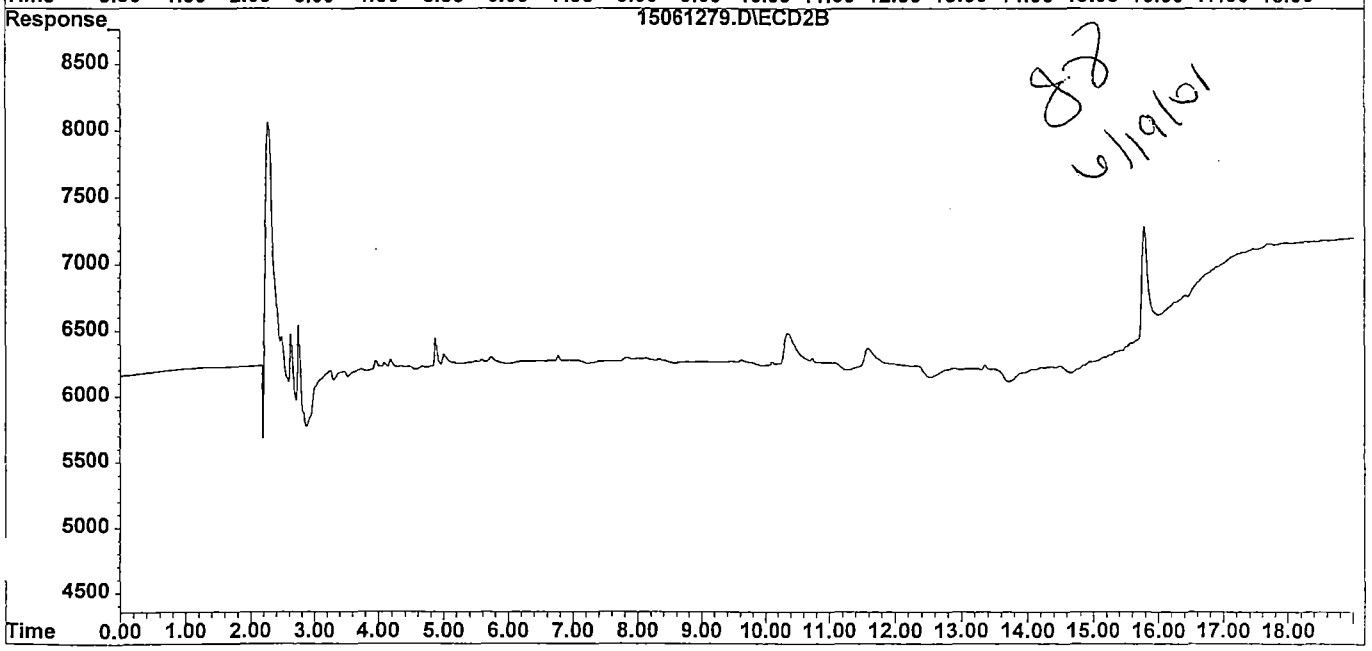
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061279.D\ECD1A.CH Vial: 79
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061279.D\ECD2B.CH
Acq On : 13 Jun 2001 18:41 Operator: DDC
Sample : SB060801C *SB060801C * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 14 10:14 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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





SZ 6/19/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061280.D\ECD1A.CH Vial: 80
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061280.D\ECD2B.CH
Acq On : 13 Jun 2001 19:04 Operator: DDC
Sample : SB060801D *SB060801D * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 14 10:14 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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	ug/L	ug/L

System Monitoring Compounds:

Target Compounds:

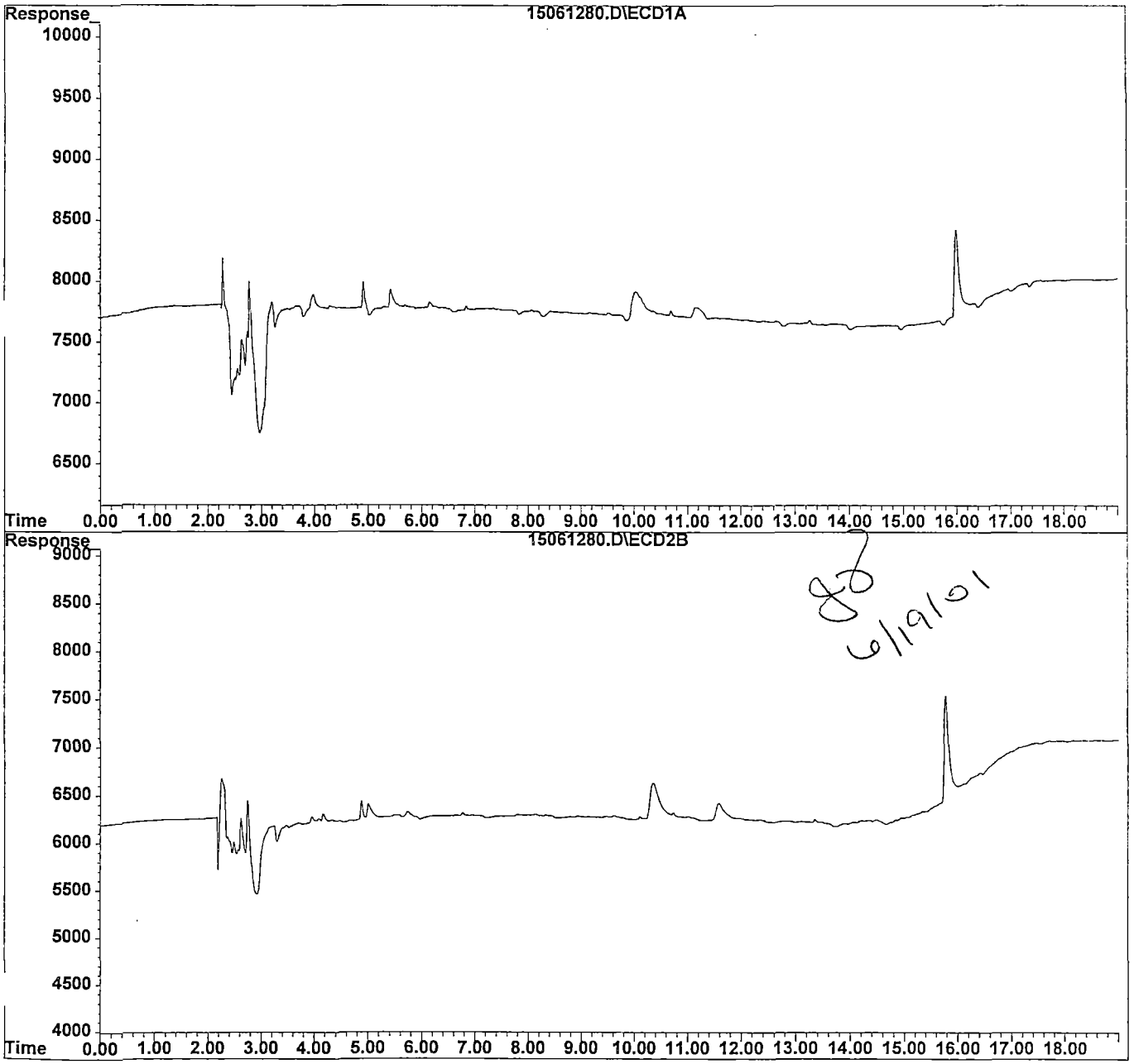
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061280.D\ECD1A.CH Vial: 80
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061280.D\ECD2B.CH
Acq On : 13 Jun 2001 19:04 Operator: DDC
Sample : SB060801D *SB060801D * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 14 10:14 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.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



gb 6/19/01

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-415 OP-415-RUNLOG-12 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_15
SDG NO. : SWLO METHOD FILE(S): XPCBF12 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/12/01 12:27	HEX	HEX	15061201	Sol
06/12/01 12:50	HEX	HEX	15061202	
06/12/01 13:13	HEX	HEX	15061203	
06/12/01 13:36	HEX	HEX	15061204	
06/12/01 13:59	HEX	HEX	15061205	Sol
06/12/01 14:22	RESC5B	5-441-6	15061206	OK
06/12/01 14:46	AR1221L35B	5-420-6	15061207	
06/12/01 15:09	AR1232L35B	5-422-6	15061208	
06/12/01 15:32	AR1242L15B	5-11-7	15061209	
06/12/01 15:55	AR1242L25B	5-10-7	15061210	
06/12/01 16:18	AR1242L35B	5-9-7	15061211	
06/12/01 16:42	AR1242L45B	5-8-7	15061212	
06/12/01 17:05	AR1242L55B	5-7-7	15061213	
06/12/01 17:28	AR1248L35B	5-424-6	15061214	
06/12/01 17:51	AR1254L15B	5-6-7	15061215	
06/12/01 18:15	AR1254L25B	5-5-7	15061216	
06/12/01 18:38	AR1254L35B	5-4-7	15061217	
06/12/01 19:01	AR1254L45B	5-3-7	15061218	
06/12/01 19:24	AR1254L55B	5-2-7	15061219	
06/12/01 19:48	AR1660L15B	5-31-7	15061220	
06/12/01 20:11	AR1660L25B	5-30-7	15061221	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

Bryan Randolph 6/13/01 — Verification Signature/Date

6-13-01 — Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-415 OP-415-RUNLOG-12 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_15
SDG NO. : SWLO METHOD FILE(S): XPCBF12 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/12/01 20:34	AR1660L35M	5-29-7	15061222	OK
06/12/01 20:57	AR1660L45B	5-28-7	15061223	
06/12/01 21:21	AR1660L55B	5-27-7	15061224	
06/12/01 21:44	PIBLK5G	5-414-6	15061225	
06/12/01 22:07	AR1660L3ICV5B	5-442-6	15061226	
06/12/01 22:30	AR1221L3ICV5B	5-436-6	15061227	
06/12/01 22:53	AR1232L3ICV5B	5-437-6	15061228	
06/12/01 23:17	AR1242L3ICV5B	5-438-6	15061229	
06/12/01 23:40	AR1248L3ICV5B	5-439-6	15061230	
06/13/01 00:03	AR1254L3ICV5B	5-440-6	15061231	OK
06/13/01 00:26	E00D2	46689.14	15061232	OK
06/13/01 00:49	E00D3	46689.15	15061233	
06/13/01 1:13	E00D4	46689.16	15061234	
06/13/01 1:36	E00D5	46689.17	15061235	
06/13/01 1:59	E00D6	46689.18	15061236	
06/13/01 2:22	E00D7	46689.19	15061237	
06/13/01 2:45	E00D7MS	46689.20MS	15061238	
06/13/01 3:09	E00D7MSD	46689.21MSD	15061239	
06/13/01 3:32	E00D8	46689.22	15061240	OK
06/13/01 3:55	E30H2DL	46676.15DL	15061241	
06/13/01 4:18	E30H4DL	46676.17DL	15061242	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

Verification Signature/Date

Analyst Signature/Date 6-13-01

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): XPCBF12 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/13/01 13:36	E3041	46612.33	15061266	OK
06/13/01 13:59	E3042	46612.34	15061267	
06/13/01 14:23	E3044	46612.36	15061268	
06/13/01 14:46	E3047	46613.02	15061269	
06/13/01 15:11	E3051	46613.05	15061270	
06/13/01 15:34	E3056	46613.10	15061271	
06/13/01 15:58	E0078	46629.10	15061272	OK
06/13/01 16:21	HEX	HEX	15061273	Sd
06/13/01 16:44	HEX	HEX	15061274	Sd
06/13/01 17:08	HEX	HEX	15061275	Sd
06/13/01 17:31	PIBLK5J	5-414-6	15061276	OK
06/13/01 17:54	AR1660L35R	5-29-7	15061277	OK
06/13/01 18:18	AR1660L35S	5-29-7	15061278	w
06/13/01 18:41	SB060801C	SB060801C	15061279	OK
06/13/01 19:04	SB060801D	SB060801D	15061280	
06/13/01 19:28	PBLKSF	BL0607SF	15061281	
06/13/01 19:51	PBLKSF	BB0607SF	15061282	
06/13/01 20:14	ELCS1SF	LC0607SF	15061283	
06/13/01 20:38	ELCS2SF	LD0607SF	15061284	OK
06/13/01 21:01	HEX	HEX	15061285	Sd
06/13/01 21:24	PIBLK5K	5-414-6	15061286	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

6-14-01 6-14-01

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): XPCBF12 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/13/01 21:48	AR1660L35T	5-29-7	15061287	CK
06/13/01 22:11	AR1660L35U	5-29-7	15061288	
06/13/01 22:34	46702.11		15061289	
06/13/01 22:57	46702.12MS		15061290	
06/13/01 23:21	46702.13MSD		15061291	
06/13/01 23:44	46702.14		15061292	
06/14/01 00:07	46702.15		15061293	
06/14/01 00:31	46702.16		15061294	
06/14/01 00:54	46702.17		15061295	
06/14/01 1:17	46702.18		15061296	
06/14/01 1:40	HEX	HEX	15061297	
06/14/01 2:03	HEX	HEX	15061298	
06/14/01 2:27	HEX	HEX	15061299	
06/14/01 2:50	PIBLK5L	5-414-6	15061300	
06/14/01 3:13	AR1660L35V	5-29-7	15061301	
06/14/01 3:36	AR1660L35W	5-29-7	15061302	
06/14/01 4:00	46702.19		15061303	
06/14/01 4:23	46702.20		15061304	
06/14/01 4:46	46702.21		15061305	
06/14/01 5:09	46702.22		15061306	
06/14/01 5:33	46702.23		15061307	

Unless noted, Client Ids are the same for the quant. & confirmation columns

6-14-01 6-14-01

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): XPCBF12 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/14/01 5:56	46702.24		15061308	
06/14/01 6:19	46702.25		15061309	
06/14/01 6:42	46702.26		15061310	
06/14/01 7:05	HEX	HEX	15061311	
06/14/01 7:29	HEX	HEX	15061312	
06/14/01 7:52	HEX	HEX	15061313	
06/14/01 8:15	PIBLK5M	5-414-6	15061314	
06/14/01 8:38	AR1660L35X	5-29-7	15061315	
06/14/01 9:01	AR1660L35Y	5-29-7	15061316	

Unless noted, Client Ids are the same for the quant. & confirmation columns

6-14-01
Verification Signature/Date

6-14-01
Analyst Signature/Date

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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	PIBLK5	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	OK
06/15/01 8:37	E00G0	46702.17	15061439	6/19/01
06/15/01 9:01	E00G1	46702.18	15061440	OK
06/15/01 9:24	HEX	HEX	15061441	S.1
06/15/01 9:47	HEX	HEX	15061442	S.1

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 10:10	HEX	HEX	15061443	SI
06/15/01 10:33	PIBLK5L	5-414-6	15061444	OK
06/15/01 10:56	AR1660L35W	5-29-7	15061445	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

6/15/01 6-15-01

Verification Signature/Date Analyst Signature/Date

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GC Laboratory Run Log - PESTICIDE/PCB

SWOR/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 11:20	AR1660L35X	5-29-7	15061446	~~OK~~
06/15/01 11:43	E00G2	46702.19	15061447	OK
06/15/01 12:06	E00G3	46702.20	15061448	
06/15/01 12:29	E00G4	46702.21	15061449	DPE 8-184 OK 6/19/01
06/15/01 12:53	E00G5	46702.22	15061450	
06/15/01 13:16	E00G6	46702.23	15061451	DPE 8-184
06/15/01 13:39	E00G7	46702.24	15061452	
06/15/01 14:02	E00G8	46702.25	15061453	
06/15/01 14:26	E00G9	46702.26	15061454	OK
06/15/01 14:49	HEX	HEX	15061455	Sol
06/15/01 15:12	HEX	HEX	15061456	Sol
06/15/01 15:36	PEST SURR TEST	5-69-7	15061457	OK
06/15/01 15:59	PIBLK5M	5-414-6	15061458	OK
06/15/01 16:22	AR1660L35Y	5-29-7	15061459	OK
06/15/01 16:45	AR1660L35Z	5-29-7	15061460	~~OK~~
06/15/01 17:09	E00H0	46702.27	15061461	OK
06/15/01 17:32	E00H1	46702.28	15061462	
06/15/01 17:55	E00H3	46702.29	15061463	
06/15/01 18:18	E00H5	46702.30	15061464	
06/15/01 18:42	E00H6	46702.31	15061465	
06/15/01 19:05	E00H7	46702.32	15061466	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

6/18/01 Verification Signature/Date

6-19-01 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 19:28	HEX	HEX	15061467	Sol
06/15/01 19:51	HEX	HEX	15061468	Sol
06/15/01 20:15	HEX	HEX	15061469	Sol
06/15/01 20:38	PIBLK5N	5-414-6	15061470	OK
06/15/01 21:01	AR1660L3A5	5-29-7	15061471	OK
06/15/01 21:24	AR1660L3B5	5-29-7	15061472	"
06/15/01 21:48	SB060901A	SB060901A	15061473	OK
06/15/01 22:11	SB060901B	SB060901B	15061474	
06/15/01 22:34	PBLKSD	BL0608SD	15061475	
06/15/01 22:57	PBLKSD	BB0608SD	15061476	
06/15/01 23:21	ELCS1	LC0608SD	15061477	
06/15/01 23:44	ELCS2	LD0608SD	15061478	
06/16/01 00:07	HEX	HEX	15061479	Sol
06/16/01 00:30	PIBLK5O	5-414-6	15061480	OK
06/16/01 00:53	AR1660L3C5	5-29-7	15061481	OK
06/16/01 1:17	AR1660L3D5	5-29-7	15061482	"
06/16/01 1:40	E00H4	46702.33	15061483	OK
06/16/01 2:03	E00H4MS	46702.34MS	15061484	
06/16/01 2:26	E00H4MSD	46702.35MSD	15061485	
06/16/01 2:49	E00H8	46702.36	15061486	
06/16/01 3:13	E00H9	46702.37	15061487	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

Verification Signature/Date 6/18/01 Analyst Signature/Date 6-18-01

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
06/16/01 3:36	E00J0	46702.38	15061488	OK
06/16/01 3:59	E00J1	46702.39	15061489	OK
06/16/01 4:22	HEX	HEX	15061490	SI
06/16/01 4:45	HEX	HEX	15061491	SI
06/16/01 5:09	HEX	HEX	15061492	SI
06/16/01 5:32	PIBLK5P	5-414-6	15061493	OK
06/16/01 5:55	AR1660L3E5	5-29-7	15061494	OK
06/16/01 6:18	AR1660L3F5	5-29-7	15061495	—
06/16/01 6:41	E00J2	46702.40	15061496	OK
06/16/01 7:05	E00J3	46702.41	15061497	
06/16/01 7:28	E00J4	46702.42	15061498	
06/16/01 7:51	E00J5	46702.43	15061499	
06/16/01 8:14	E00J6	46702.44	15061500	
06/16/01 8:37	E00J7	46702.45	15061501	
06/16/01 9:00	E00J8	46702.46	15061502	OK
06/16/01 9:24	HEX	HEX	15061503	SI
06/16/01 9:47	HEX	HEX	15061504	SI
06/16/01 10:10	HEX	HEX	15061505	SI
06/16/01 10:33	PIBLK5Q ✓	5-414-6	15061506	OK
06/16/01 10:56	AR1660L3G5 ✓	5-29-7	15061507	OK
06/16/01 11:20	AR1660L3H5	5-29-7	15061508	—

Unless noted, Client Ids are the same for the quant. & confirmation columns

6/18/01 — Verification Signature/Date

6-18-01 — 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
06/16/01 11:43	E00J9	46702.47	15061509	OK
06/16/01 12:06	E00K0	46702.48	15061510	
06/16/01 12:29	E00K1	46702.49	15061511	
06/16/01 12:53	E00K2	46702.50	15061512	
06/16/01 13:16	E30M8	46721.01	15061513	
06/16/01 13:39	E30N0	46721.02	15061514	
06/16/01 14:02	E30N1	46721.03	15061515	
06/16/01 14:26	E30N2	46721.04	15061516	OK
06/16/01 14:49	HEX	HEX	15061517	SI
06/16/01 15:12	HEX	HEX	15061518	SI
06/16/01 15:35	HEX	HEX	15061519	SI
06/16/01 15:59	PIBLK5R	5-414-6	15061520	OK NV
06/16/01 16:22	AR1660L3I5	5-29-7	15061521	OK NV
06/16/01 16:45	AR1660L3J5	5-29-7	15061522	
06/16/01 17:08	E00F8DL	46702.16DL	15061523	OK
06/16/01 17:32	E00F8	46702.16	~~15061524~~	misc. data
06/16/01 17:55	E00G0DL	46702.17DL	15061525	
06/16/01 18:18	E00G0	46702.17	~~15061526~~	misc data
06/16/01 18:42	E00G1DL	46702.18DL	15061527	
06/16/01 19:05	E00G3DL	46702.20DL	15061528	
06/16/01 19:28	E00G4DL	46702.21DL	15061529	OK

6/19/01

Unless noted, Client Ids are the same for the quant. & confirmation columns

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
06/16/01 19:51	E00G4	46702.21	15061530	OK
06/16/01 20:14	E00G6DL	46702.23DL	15061531	
06/16/01 20:38	E00G1	46702.18	15061532	
06/16/01 21:01	HEX	HEX	15061533	
06/16/01 21:24	HEX	HEX	15061534	
06/16/01 21:47	HEX	HEX	15061535	
06/16/01 22:11	PIBLK5S	5-414-6	15061536	OK
06/16/01 22:34	AR1660L3K5	5-29-7	15061537	OK
06/16/01 22:57	AR1660L3L5	5-29-7	15061538	

Unless noted, Client Ids are the same for the quant. & confirmation columns

Verification Signature/Date Analyst Signature/Date

Page No.: 12

	SV	OT • PCB	OTHER
CONT EX. (3520C)			
SEP-F (3510C)			
SHAKER			
SONC. (3550B)		XXXXX	
SOXHLET			

[X] RUSH [ ] REEXTRACT [ ] TCLP [ ] DIOXIN

SAMPLE EXTRACTION L(

BATCH: 010607SF

EXTRACT DATE: 2001-06-07 12:19

6/12

002769

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
BL0607SF			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N		1000		
BB0607SF			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N		1000		
LC0607SF			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N	1000	1000		
LD0607SF			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N	1000	1000		
46702.11 GC699	EPA 29294	06/07/2001 08:30 E00E6	S/L	7.24	20.99	23.9	30.21	350	10/5	45	2.0		5.0	5.0	N		1000		
46702.12MS GC699	EPA 29294	06/07/2001 08:30 E00E6MS	S/L	7.24	20.99	23.8	30.09	350	10/5	45	2.0		5.0	5.0	N	1000	1000		
46702.13MSD GC699	EPA 29294	06/07/2001 08:30 E00E6MSD	S/L	7.24	20.99	23.8	30.08	350	10/5	45	2.0		5.0	5.0	N	1000	1000		
46702.14 GC699	EPA 29294	06/07/2001 08:30 E00F6	S/L	7.42	60.69	12.0	30.53	350	10/5	45	2.0		5.0	5.0	N		1000		
46702.15 GC699	EPA 29294	06/07/2001 08:30 E00F7	S/L	7.27	32.27	20.5	30.20	350	10/5	45	2.0		5.0	5.0	N		1000		
46702.16 GC699	EPA 29294	06/07/2001 08:30 E00F8	S/L	7.05	66.53	10.1	30.05	350	10/5	45	2.0		5.0	5.0	N		1000		
46702.17 GC699	EPA 29294	06/07/2001 08:30 E00G0	S/L	7.59	62.65	11.3	30.20	350	10/5	45	2.0		5.0	5.0	N		1000		
46702.18 GC699	EPA 29294	06/07/2001 08:30 E00G1	S/L	7.66	59.27	12.3	30.29	350	10/5	45	2.0		5.0	5.0	N		1000		
46702.19 GC699	EPA 29294	06/07/2001 08:30 E00G2	S/L	7.55	23.92	23.1	30.31	350	10/5	45	2.0		5.0	5.0	N		1000		
46702.20 GC699	EPA 29294	06/07/2001 08:30 E00G3	S/L	7.52	20.08	24.1	30.10	350	10/5	45	2.0		5.0	5.0	N		1000		
46702.21 GC699	EPA 29294	06/07/2001 08:30 E00G4	S/L	7.66	43.98	17.0	30.33	350	10/5	45	2.0		5.0	5.0	N		1000		

INITIALS

WEIGHING:	BTB	EXTRACTION:		FLORISIL:	ethe/h
CLEANUP:	CD	KD:	SA		acetone
BLOWDOWN:	SA	TV:	GS		Hexane
SURROG. SPIKER:	CD	VERIFIER:	BTB		
MATRIX SPIKER:	CD	VERIFIER:	BTB		
SUBMITTED BY:	SA	REVIEWED BY:	06/11		

ID NUMBERS

FLORISIL CARTRIDGE #:

GPC COLUMN #: 364134 (060801)#3640A

SURROGATES ID CONC #: 5-13-7

MATRIX SPIKE SOLID/CONC #(s): 5-1-7

SOP - METHOD # : SWL-OP- 420 Rev. 1.0

COMMENTS

SB#060801C
SB#060801D

Extracts went through Sfgel & acid clean-up

R936 Book 1 Pg 28

	SV	• PCB	OTHER
CONT EX. (3520C)			
SEP-F (3510C)			
SHAKER			
SONC. (3550B)		XXXXX	
SOXHLET			

[X] RUSH ☐ REEXTRACT ☐ TCLP ☐ DIOXIN

SAMPLE EXTRACTION L(

BATCH: 010607SF

EXTRACT DATE: 2001-06-07 12:19

002769

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
46702.22 GC699	EPA 29294	06/07/2001 08:30 E00G5	S/L	7.90	10.98	27.1	30.40	350	10/5	45	2.0		5.0	5.0	N		1000		
46702.23 GC699	EPA 29294	06/07/2001 08:30 E00G6	S/L	7.33	75.10	7.5	30.01	350	10/5	45	2.0		5.0	5.0	N		1000		
46702.24 GC699	EPA 29294	06/07/2001 08:30 E00G7	S/L	7.32	75.43	7.4	30.04	350	10/5	45	2.0		5.0	5.0	N		1000		
46702.25 GC699	EPA 29294	06/07/2001 08:30 E00G8	S/L	7.55	28.81	21.5	30.20	350	10/5	45	2.0		5.0	5.0	N		1000		
46702.26 GC699	EPA 29294	06/07/2001 08:30 E00G9	S/L	7.67	24.37	23.1	30.51	350	10/5	45	2.0		5.0	5.0	N		1000		
46702.27 GC699	EPA 29294	06/07/2001 08:30 E00H0	S/L	7.77	28.43	21.7	30.33	350	10/5	45	2.0		5.0	5.0	N		1000		
46702.28 GC699	EPA 29294	06/07/2001 08:30 E00H1	S/L	7.62	31.03	20.8	30.18	350	10/5	45	2.0		5.0	5.0	N		1000		
46702.29 GC699	EPA 29294	06/07/2001 08:30 E00H3	S/L	7.63	29.85	21.2	30.15	350	10/5	45	2.0		5.0	5.0	N		1000		
46702.30 GC699	EPA 29294	06/07/2001 08:30 E00H5	S/L	7.45	69.73	9.2	30.30	350	10/5	45	2.0		5.0	5.0	N		1000		
46702.31 GC699	EPA 29294	06/07/2001 08:30 E00H6	S/L	7.33	36.69	19.1	30.14	350	10/5	45	2.0		5.0	5.0	N		1000		
46702.32 GC699	EPA 29294	06/07/2001 08:30 E00H7	S/L	7.40	28.45	21.5	30.02	350	10/5	45	2.0		5.0	5.0	N		1000		

INITIALS

WEIGHING:	SA	EXTRACTION:		FLORISIL:	
CLEANUP:	CD	KD:	SA		CH_2Cl_2
BLOWDOWN:	SA	TV:	GS		acetone
SURROG. SPIKER:	CD	VERIFIER:	BTB		Hexane
MATRIX SPIKER:	CD	VERIFIER:	BTB		
SUBMITTED BY:	SA	REVIEWED BY:	Sep 06/01		

ID NUMBERS

FLORISIL CARTRIDGE #:

GPC COLUMN #: 364134 (06-08-01) #364-01

SURROGATES ID CONC #: 5-13-7

MATRIX SPIKE SOLID/CONC #(s): 5-1-7

SOP - METHOD # : SWL-OP- 420 Rev. 1.0

COMMENTS

SB #060801C
SB #060801D

Extracts went through sl gel & acid clean-up

RG 36 Book 1 Pg 43

Southwest Laboratory of Oklahoma
1700 W. Albany Suite C
Broken Arrow, OK 74012-1421

INTERNAL CHAIN OF CUSTODY

Date	06/07/2001
Episode	**46702**
Client	**EPA**
Project	OLM04.2
Received	06/07/01

Test Code	Cont ID	(Circle the Sample Numbers Checked out) #	#	#	#	#	#	#	Date/Time Out	Analyst	Date/Time In
GC699	A	1	2	3	4	5	6	7			
		8	9	10	11	12	13	14			
		15	16	17	18	19	20	21			
		22	23	24	25	26	27	28			
		29	30	31	32	33	34	35			
		36	37	38	39	40	41	42			
		43	44	45	46	47	48	49			
		50							6/7 2:20	[illegible]	6/7 3:30
IN660	A	1	2	3	4	5	6	7			
		8	9	10	11	12	13	14			
		15	16	17	18	19	20	21			
		22	23	24	25	26	27	28			
		29	30	31	32	33	34	35			
		36	37	38	39	40	41	42	6/7		6/7
		43	44	45	46	47	48	49			
		50							3:30	EC	4:45

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.
6/6	5:40	46690.01	Nissaki	[illegible]	N	GC10	1
06/07	3:45	Na_2SO_4 test (lot# 102)	SWLO	SA	N	GC800	X
06/07	5:45	46612.22, 23, 26	EPA	SA	Y	GC699	X
6-08	11.00a	46707.01 – 18, ms msd	TOLTEST	GS	N	GC200	18
6-08	4.10p	46699.01 – 08; ms msd;	TETRA-SA	GS	N	GC399=300	8
↓	↓	46714.01-02	↓	↓	↓		2
06/08	9.30p	46689.01 – 22 ms, msd	EPA	SA	N	GC699	22
06/08	9:30p	46689.23 – 44 ms, msd	EPA	SA	N	GC699	22
06-11	12.00p	46729.17, 18 ms msd; 19, 20	Tetra-SA	GS	N	GC399=6300	4
↓	↓	46734.17; 18	↓	↓	↓	↓	2
06/11	9.20	46629.10	EPA	SA	Y ~~N~~	GC699 Ret	X
06/11	9:20	46702.11 – 32	EPA	SA	N	GC699	22
06/11	9:20	46612 – 33, 34, 36	EPA	SA	Y	GC699 Ret	X
06/11	9:20	46613.02, 05, 10	EPA	SA	Y	GC699 Ret	X
06/11	9:20	46689.45 – 56, ms/msd	EPA	SA	N	GC699	12
06/11	9:20	46702.01 – 10	EPA	SA	N	GC699	10

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.
6/6	5:40	46690.01	Nissaki	[illegible]	N	GC10	1
06/07	3:45	N_2SO_4 test (lot# 102)	SWLO	SA	N	GC800	X
06/07	5:45	46612.22, 25, 26	EPA	SA	Y	GC699	X
6-08	11:00a	46707.07 – 18, ms msD	TOLTEST	GS	N	GC200	18
6-08	4:20p	46699.01 – 08; ms msD;	TETRA-SF	GS	N	GC399 = 300	8
↓	↓	46714.01 – 02	↓	↓	↓		2
06/08	9:30p	46689.01 – 22 ms, msD	EPA	SA	N	GC699	22
06/08	9:30p	46689.23 – 44 ms, msD	EPA	SA	N	GC699	22
06-11	12:00p	46729.17, 18 ms msD; 19, 20	Tetra-SF	GS	N	GC399 = 6300	4
↓	↓	46734.17; 18	↓	↓	↓	↓	2
06/11	9:20	46629.10	EPA	SA	Y ~~N~~	GC699 Ret	X
06/11	9:20	46702.11 – 32	EPA	SA	N	GC699	22
06/11	9:20	46612 – 33, 34, 36	EPA	SA	Y	GC699 Ret	X
06/11	9:20	46613.02, 05, 10	EPA	SA	Y	GC699 Ret	X
06/11	9:20	46689.45 – 56, ms/msD	EPA	SA	N	GC699	12
06/11	9:20	46702.01 – 10	EPA	SA	N	GC699	10
06-12	11:00	Put Order 413002	SWLO	MC	N	GC819	X
06-12	4:55	PEST / AROCL CHK (364BY)	SWLO	SA	N	GC819	X
06-12	4:55	PEST/AROCL CHK (418002)	SWLO	SA	N	GC819	X
06/12	9:30p	46721.49 – 55 ms/msD	EPA	SA	N	GC699	7
06/12	9:30p	46732.01 – 15	EPA	SA	N	GC699	15
06/12	9:30p	46732.16 – 37	EPA	SA	N	GC699	22
6/13	3:30p	46714 – 04 – 13; 733.08 – 12 ms msD	Tetra	GS	N	GC399 = 300	10
↓	↓	46734.01 – 20; 733.03 – 07 ms msD	Tetra	GS	N	GC399 = 300	17
↓	↓	46729.01 – 16 ms msD	Tetra	GS	N	GC399 = 300	16
		46733.03, 04 ms 05 msD	Tetra-SF			GC399	5

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061524.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061524.D\ECD2B.CH
Acq On : 16 Jun 2001 17:32 Operator: DDC
Sample : 46702.16 *E00F8 * Inst : HP_15
Misc : *EPA*30G/5.0ML*66 Dilution: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 18 9:54 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	ug/Kg	ug/Kg
System Monitoring Compounds:						
1) S TCX	7.60	7.36	66786	56812	26.1	24.0
Spiked Amount 19.608			Recovery	=	133.11%	122.40%
22) S DCB	18.29	18.70	74875	68085	28.3	28.2
Spiked Amount 19.608			Recovery	=	144.33%	143.82%
Target Compounds:						
7) L4 Aroclor-1242	8.43	10.40	427250	483071	7198.4	16805.3 E#
8) L4 Aroclor-1242 {2}	9.71	11.19	500383	405887	12530.4	8311.0 #
11) L4 Aroclor-1242 {5}	12.81	13.15	946134	1052767	11644.8	24041.3 E#
Sum Aroclor-1242			1873766	1941726	31373.6	49157.5
Average Aroclor-1242					10457.860	16385.841
12) L6 Aroclor-1254	12.66	0.00	647232	0	5467.0	N.D. d #
13) L6 Aroclor-1254 {2}	13.32	0.00	171009	0	2259.4	N.D. d #
14) L6 Aroclor-1254 {3}	13.80	13.94	234704	163162	2230.6	3085.1 #
15) L6 Aroclor-1254 {4}	14.32	14.93	212847	118148	2255.8	1565.2 #
16) L6 Aroclor-1254 {5}	15.00	15.40	135331	127773	1705.0	1369.2
Sum Aroclor-1254			1401123	409083	13917.7	6019.5
Average Aroclor-1254					2783.548	2006.486
17) L7 Aroclor-1260	14.32	0.00	212847	0	1282.9	N.D. d #
18) L7 Aroclor-1260 {2}	14.81	0.00	321506	0	1441.1	N.D. d #
19) L7 Aroclor-1260 {3}	15.26	14.93	268229	118148	1260.6	681.6 #
20) L7 Aroclor-1260 {4}	15.72	16.10	67865	29224	558.5	293.7 #
21) L7 Aroclor-1260 {5}	0.00	16.33	0	85012	N.D. d	352.5 #
Sum Aroclor-1260			870447	232385	44540.1	13017.4
Average Aroclor-1260					1135.771	442.591

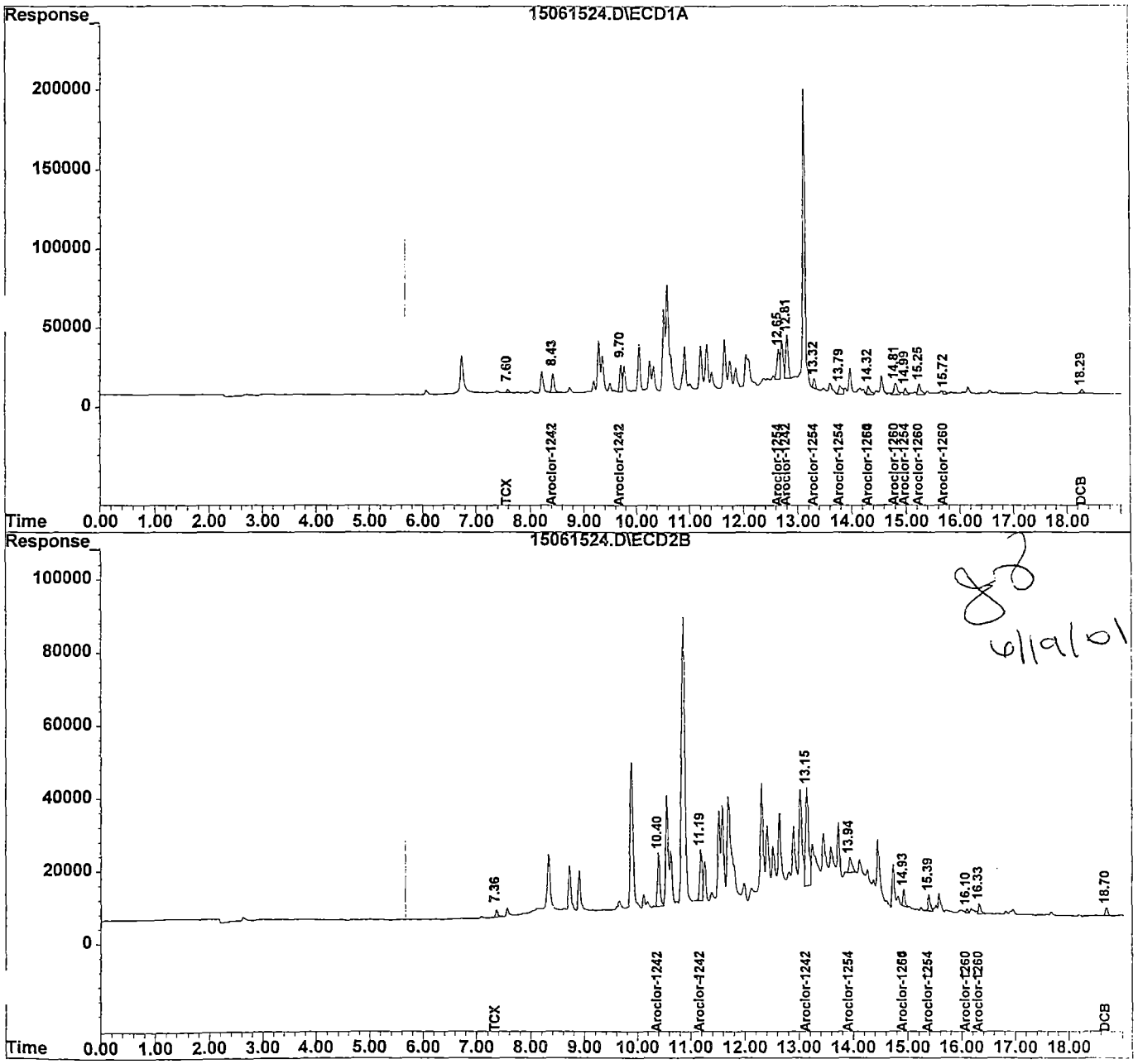
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061524.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061524.D\ECD2B.CH
Acq On : 16 Jun 2001 17:32 Operator: DDC
Sample : 46702.16 *E00F8 * Inst : HP_15
Misc : *EPA*30G/5.0ML*66 Dilution: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 18 9:54 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



6/19/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061526.D\ECD1A.CH Vial: 26
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061526.D\ECD2B.CH
Acq On : 16 Jun 2001 18:18 Operator: DDC
Sample : 46702.17 *E00G0 * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*63 Dilution: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 18 9:52 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	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.60	7.36	56970	49902	20.3	19.3	
	Spiked Amount 17.899			Recovery	=	113.42%	107.83%	
22)	S DCB	18.30	18.70	37180	40506	12.8	15.3	
	Spiked Amount 17.899			Recovery	=	71.51%	85.48%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.43	10.40	456290	457569	7017.6	14530.6	E#
8)	L4 Aroclor-1242 {2}	9.71	11.19	370546	245087	8470.2	4581.0	#
11)	L4 Aroclor-1242 {5}	12.81	13.15	888720	933168	9984.7	19452.5	E#
	Sum Aroclor-1242			1715556	1635824	25472.5	38564.1	
	Average Aroclor-1242					8490.838	12854.697	
13)	L6 Aroclor-1254 {2}	13.32	0.00	205898	0	2483.2	N.D. d	#
14)	L6 Aroclor-1254 {3}	13.80	13.94	112004	171448	971.7	2959.2	#
15)	L6 Aroclor-1254 {4}	14.32	14.93	269702	152097	2609.2	1839.3	#
16)	L6 Aroclor-1254 {5}	15.00	15.40	83343	135682	958.5	1327.3	#
	Sum Aroclor-1254			670947	459227	7022.6	6125.7	
	Average Aroclor-1254					1755.639	2041.894	
17)	L7 Aroclor-1260	14.32	0.00	269702	0	1483.9	N.D. d	#
18)	L7 Aroclor-1260 {2}	14.81	14.73	334319	364732	1367.9	2272.7	#
19)	L7 Aroclor-1260 {3}	15.26	14.93	238301	152097	1022.3	800.9	
20)	L7 Aroclor-1260 {4}	15.72	16.10	74037	46023	556.2	422.3	
21)	L7 Aroclor-1260 {5}	0.00	16.33	0	132064	N.D. d	499.8	#
	Sum Aroclor-1260			916358	694916	39648.2	35758.9	
	Average Aroclor-1260					1107.572	998.926	

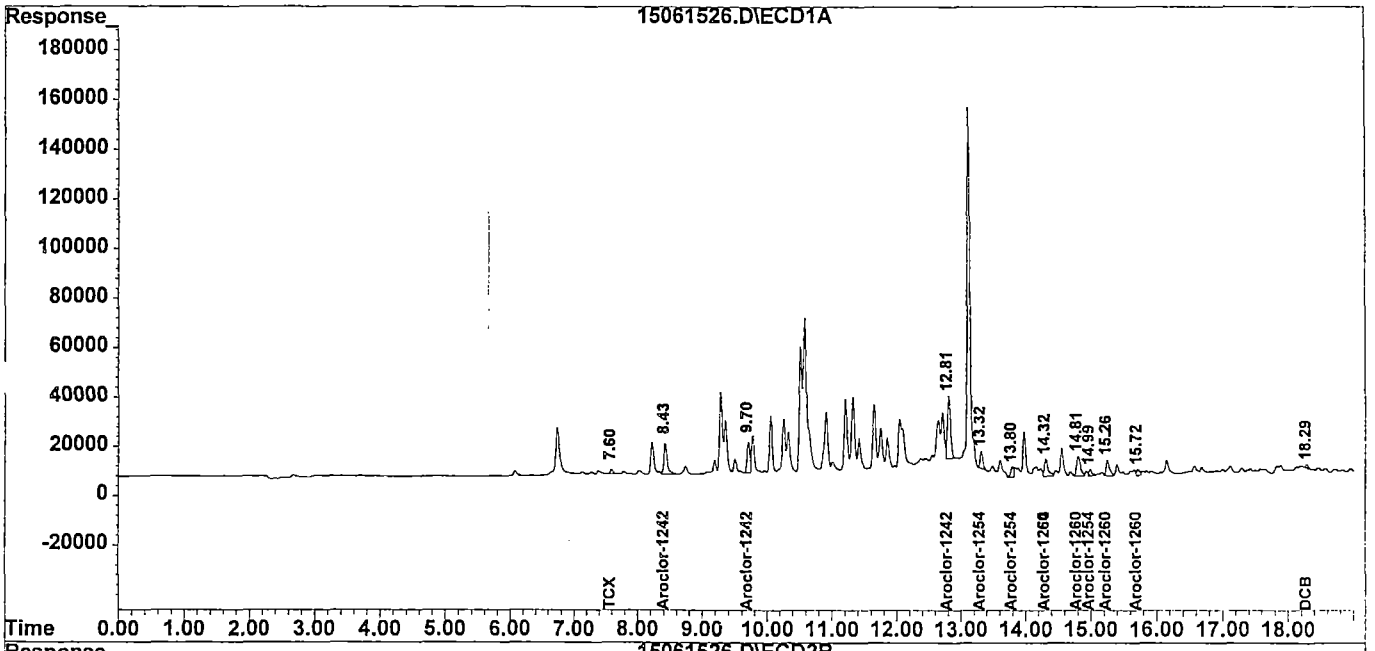
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

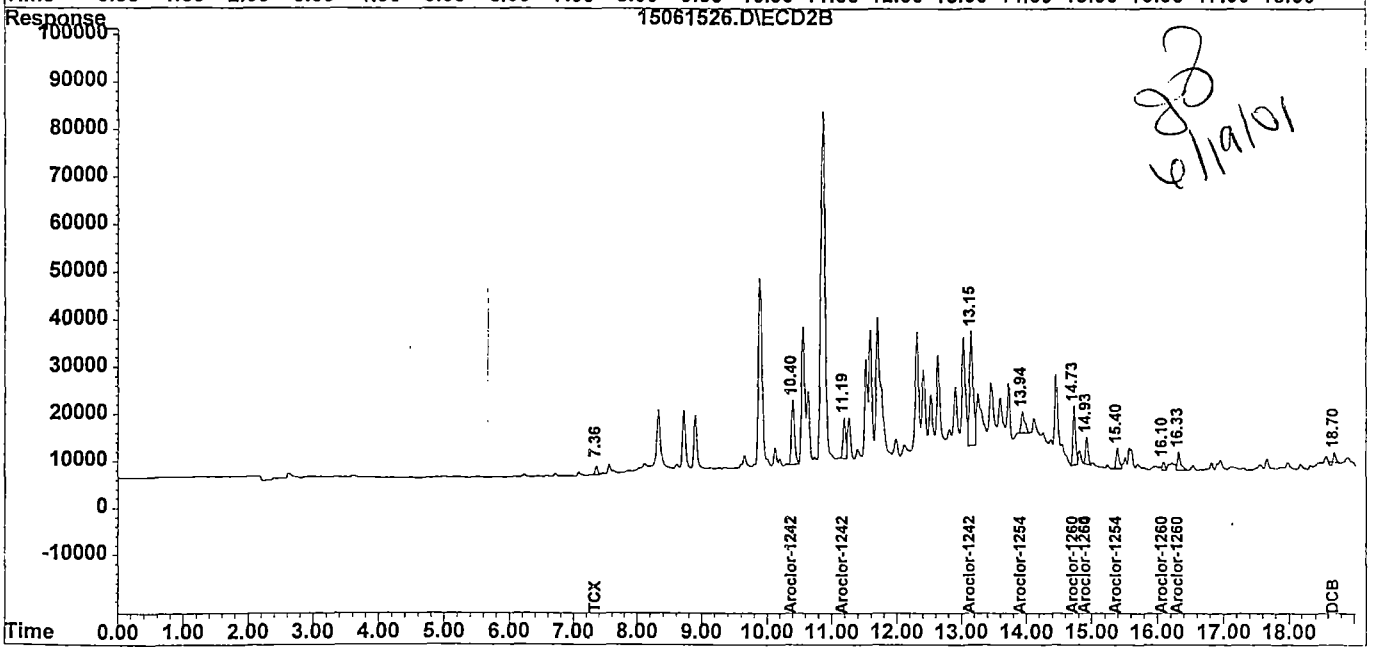
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061526.D\ECD1A.CH Vial: 26
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061526.D\ECD2B.CH
Acq On : 16 Jun 2001 18:18 Operator: DDC
Sample : 46702.17 *E00G0 * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*63 Dilution: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 18 9:52 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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Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061532.D\ECD1A.CH Vial: 32
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061532.D\ECD2B.CH
Acq On : 16 Jun 2001 20:38 Operator: DDC
Sample : 46702.18 *E00G1 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*59 Dilution: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 18 9:42 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	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.36	64433	63632	20.7	22.1
	Spiked Amount 16.099			Recovery	=	128.58%	137.27%
22)	S DCB	18.29	18.69	97692	88729	30.3	30.1
	Spiked Amount 16.099			Recovery	=	188.21%	186.97%
	Target Compounds:						
7)	L4 Aroclor-1242	8.42	10.40	1721754	2228793	23817.6 E	63661.6 E#
8)	L4 Aroclor-1242 {2}	9.70	11.18	765708	621508	15743.5 E	10448.9 #
9)	L4 Aroclor-1242 {3}	10.58f	0.00	10807613	0	85721.1 E	N.D. d #
10)	L4 Aroclor-1242 {4}	11.64	0.00	2362150	0	33095.3 E	N.D. d #
11)	L4 Aroclor-1242 {5}	12.80	13.14	2460160	2163883	24860.8 E	40572.6 E#
	Sum Aroclor-1242			18117384	5014184	183238.3	114683.0
	Average Aroclor-1242					36647.657	38227.658
13)	L6 Aroclor-1254 {2}	13.31	0.00	578038	0	6270.6	N.D. d #
14)	L6 Aroclor-1254 {3}	13.79	13.93	244880	813240	1910.8	12625.2 E#
15)	L6 Aroclor-1254 {4}	14.31	14.92	805325	512977	7007.6	5579.6
16)	L6 Aroclor-1254 {5}	14.99	15.39	244734	540953	2531.5	4759.7 #
	Sum Aroclor-1254			1872977	1867170	17720.6	22964.4
	Average Aroclor-1254					4430.144	7654.799
17)	L7 Aroclor-1260	14.31	0.00	805325	0	3985.3	N.D. d #
18)	L7 Aroclor-1260 {2}	14.80	14.73	1047815	1232240	3856.3	6906.3 #
19)	L7 Aroclor-1260 {3}	15.25	14.92	922838	512977	3560.9	2429.7 #
20)	L7 Aroclor-1260 {4}	15.72	16.09	203990	129876	1378.4	1071.8
21)	L7 Aroclor-1260 {5}	16.16	16.32	530255	419025	1801.0	1426.5
	Sum Aroclor-1260			3510224	2294118	117378.1	95260.6
	Average Aroclor-1260					2916.376	2958.556

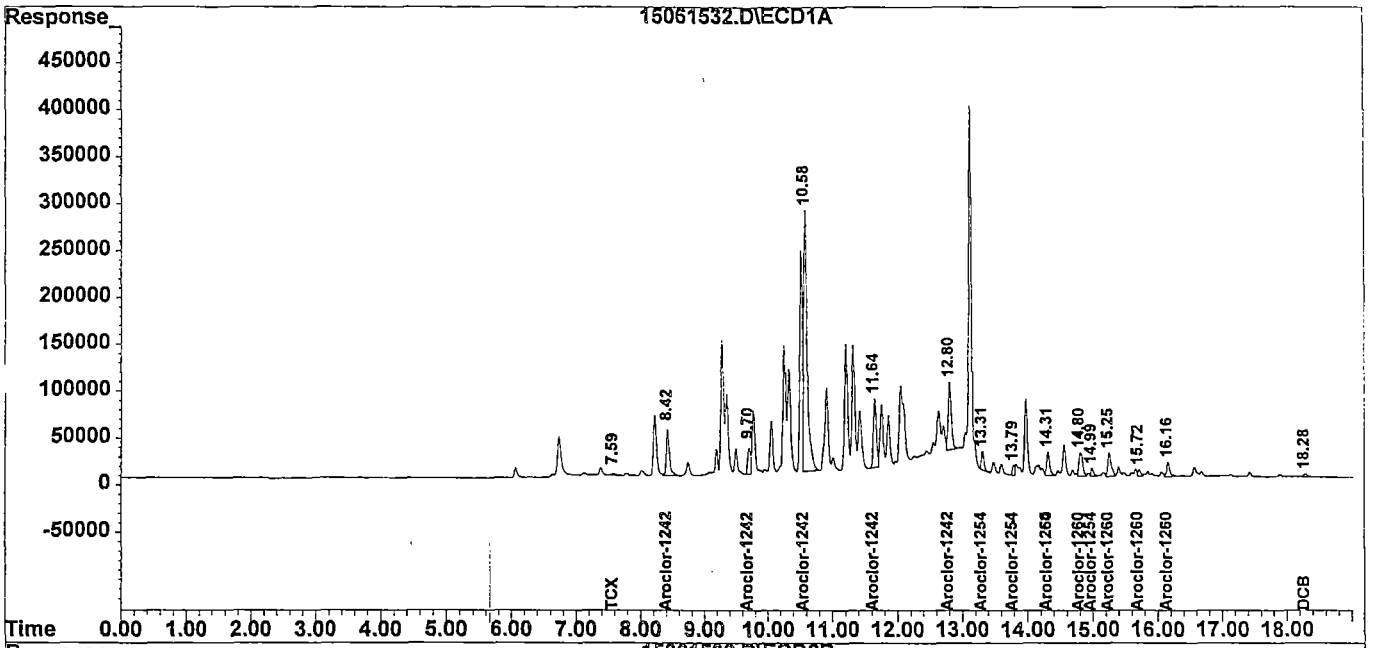
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

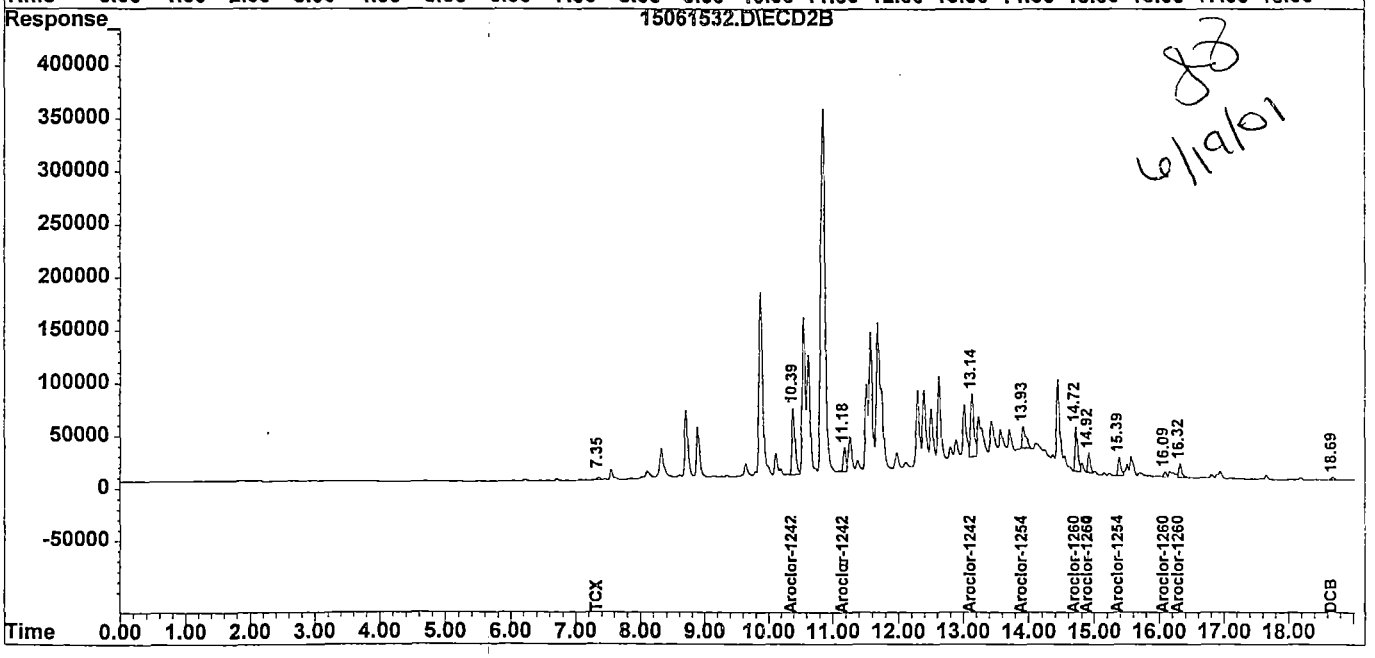
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061532.D\ECD1A.CH Vial: 32
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061532.D\ECD2B.CH
Acq On : 16 Jun 2001 20:38 Operator: DDC
Sample : 46702.18 *E00G1 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*59 Dilution: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 18 9:42 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





6/19/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061530.D\ECD1A.CH Vial: 30
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061530.D\ECD2B.CH
Acq On : 16 Jun 2001 19:51 Operator: DDC
Sample : 46702.21 *E00G4 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*44 Dilution: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 18 9:40 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	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.36	65167	62205	15.3	15.8	
	Spiked Amount 11.787			Recovery	=	129.81%	134.05%	
22)	S DCB	18.29	18.70	95778	88307	21.8	22.0	
	Spiked Amount 11.787			Recovery	=	184.95%	186.65%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.42	10.40	713889	966891	7230.3	20220.0	E#
8)	L4 Aroclor-1242 {2}	9.70	11.19	447287	793123	6733.2	9762.4	E#
11)	L4 Aroclor-1242 {5}	12.81	13.14	1660693	1426691	12286.8 E	19585.0	E#
	Sum Aroclor-1242			2821869	3186704	26250.2	49567.5	
	Average Aroclor-1242					8750.062	16522.483	
14)	L6 Aroclor-1254 {3}	13.79	13.93	184449	533150	1053.8	6059.9	#
15)	L6 Aroclor-1254 {4}	14.31	14.93	858870	758952	5471.7	6043.8	
16)	L6 Aroclor-1254 {5}	14.99	15.40	214698	579736	1626.0	3734.6	#
	Sum Aroclor-1254			1258017	1871839	8151.5	15838.3	
	Average Aroclor-1254					2717.153	5279.436	
17)	L7 Aroclor-1260	14.31	0.00	858870	0	3111.8	N.D.	d #
18)	L7 Aroclor-1260 {2}	14.80	0.00	1370207	0	3692.0	N.D.	d #
19)	L7 Aroclor-1260 {3}	15.25	14.93	1112185	758952	3142.0	2631.9	
20)	L7 Aroclor-1260 {4}	15.72	16.10	217205	125513	1074.6	758.4	#
21)	L7 Aroclor-1260 {5}	16.16	16.33	524966	411869	1305.4	1026.5	
	Sum Aroclor-1260			4083432	1296334	72641.7	26029.9	
	Average Aroclor-1260					2465.169	1472.253	

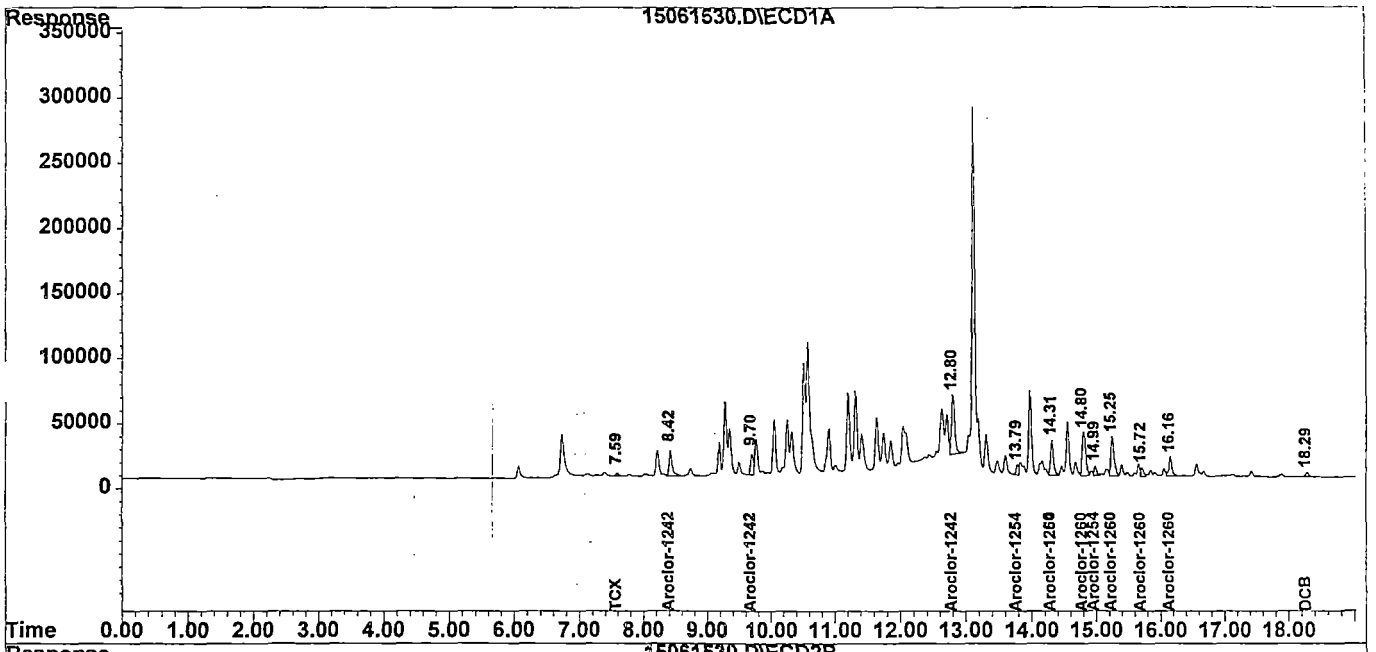
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

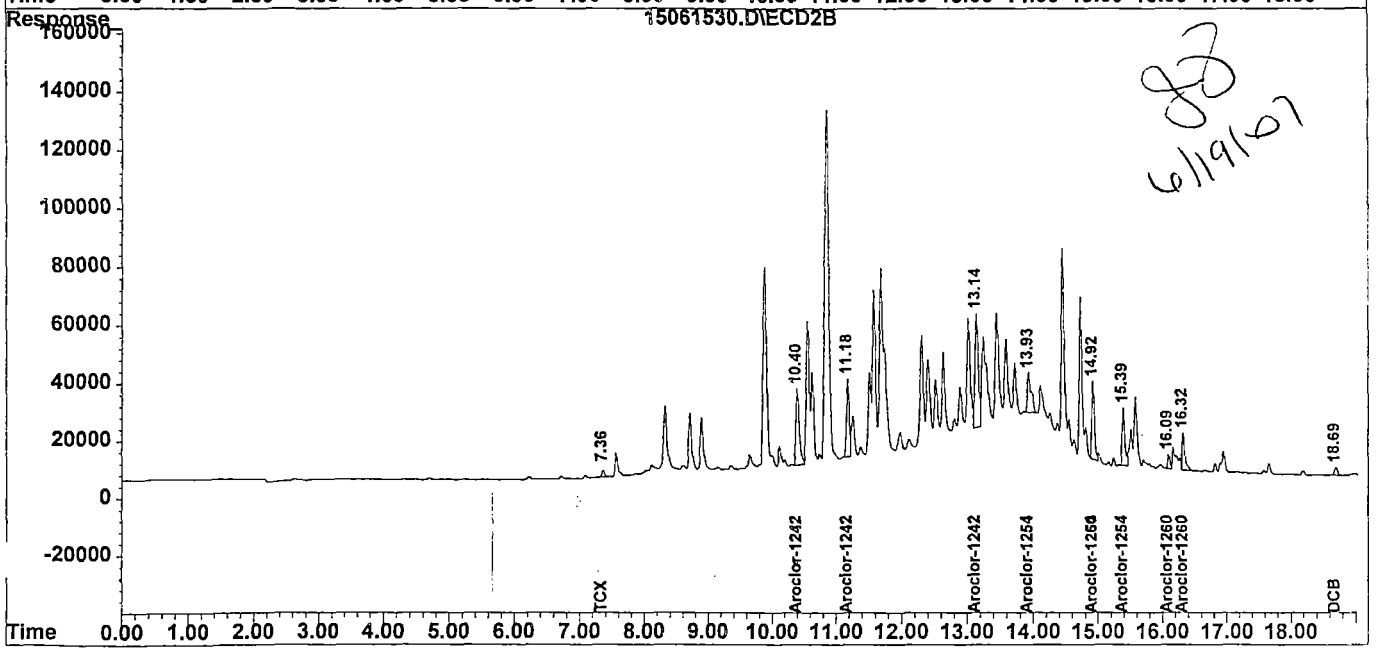
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061530.D\ECD1A.CH Vial: 30
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061530.D\ECD2B.CH
Acq On : 16 Jun 2001 19:51 Operator: DDC
Sample : 46702.21 *E00G4 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*44 Dilution: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 18 9:40 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





6/19/01

487

SPG11

FedEx USA Airbill FedEx Tracking Number 8218 7698 2001

Form I.D. No. 0215

1 From This portion can be removed for Recipient's records.

Date 6-6-01 FedEx Tracking Number 8218 7698 2001

Sender's Name Lorie Hay 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

2 Your Internal Billing Reference

3 To

Recipient's Name SAMPLE LOG- IN Phone 918 251-0546

Company SOUTHWEST LABS OF OKLAHOMA, 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

RECIPIENT: PEEL HERE

8218 7698 2001

0146095931

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

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

*FedEx Envelope/Letter Rate not available. Minimum charge: One-pound rate

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

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

*Call for Confirmation:

5 Packaging *Declared value limit $500

- [ ] FedEx Envelope/Letter*
- [ ] FedEx Pak*
- [x] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling — Include FedEx address in Section 3.

- [x] 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.

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

Total Packages	Total Weight	Total Charges
1	88	

Credit Card Auth.

[1] 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.

Questions? Call 1·800·Go·FedEx (800-463-3339)

Visit our Web site at www.fedex.com

Printed in U.S.A. GBFE 5/00

402

COPY

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CSF 29254 SDG 28057

Signature S Jackert

Date 6/8/01

ST 6/8/01

ST 6/14/01

592

435

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

Case No:	29294
DAS No:	2001ZG07
SDG No:	E3047

L

Date Shipped: 6/6/2001
Carrier Name: FedEx
Airbill: 821876982001
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	6-6-01 1715		6-7-01 8:30
2			
3			
4			

Sampler Signature:

For Lab Use Only
Lab Contract No: 68699079
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
E00E5	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-119246 (Ice Only) (1)	AP-SD042-04	S:	6/5/2001	10:46		
E00E6	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-119247 (Ice Only) (1)	AP-SD042-01	S:	6/5/2001	10:46		
E00E7	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-119248 (Ice Only) (1)	AP-SD042-02	S:	6/5/2001	10:46		
E00E8	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-119249 (Ice Only) (1)	AP-SD042-03	S:	6/5/2001	10:46		
E00E9	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-119250 (Ice Only) (1)	AP-SD042-05	S:	6/5/2001	10:46		
E00F0	Sediment/ Rick Mehl	L/G	PCBs (7)	5-119251 (Ice Only) (1)	AP-SD050-01	S:	6/5/2001	15:26		
E00F1	Sediment/ Rick Mehl	L/G	PCBs (7)	5-119252 (Ice Only) (1)	AP-SD050-02	S:	6/5/2001	15:26		
E00F2	Sediment/ Rick Mehl	L/G	PCBs (7)	5-119255 (Ice Only) (1)	AP-SD050-03	S:	6/5/2001	15:26		
E00F3	Sediment/ Rick Mehl	L/G	PCBs (7)	5-119256 (Ice Only) (1)	AP-SD050-03DP	S:	6/5/2001	15:26		
E00F4	Sediment/ Rick Mehl	L/G	PCBs (7)	5-119257 (Ice Only) (1)	AP-SD050-04	S:	6/5/2001	15:26		

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3047
Signature
Date 6/8/01

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	E00H4, E00E6		4.8°C	177899, 177900

Analysis Key: PCBs = PCBs
Concentration: L = Low, M = Low/Medium, H = High
Type/Designate: Composite = C, Grab = G
Custody Seal Intact? Y
Shipment Iced? Y

R Number: 5-154097651-060601-0001

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R provides preliminary results. Requests for preliminary results will increase analytical costs.
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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	29294
DAS No:	2001ZG07
SDG No:	E00E6

L

Date Shipped:	6/6/2001
Carrier Name:	FedEx
Airbill:	821876982001
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 [signature]	6.6.01 1715	[signature]	6-7-01 8:30
2			
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No:	68L99079
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 E00E6
E00F5	Sediment/ JOE RUIZ	L/G	PCBs (7)	5-119258 (Ice Only) (1)	AP-SD028-01	S: 6/5/2001 16:00		
E00F6	Sediment/ JOE RUIZ	L/G	PCBs (7)	5-119261 (Ice Only) (1)	AP-SD028-02	S: 6/5/2001 16:00		
E00F7	Sediment/ JOE RUIZ	L/G	PCBs (7)	5-119262 (Ice Only) (1)	AP-SD028-03	S: 6/5/2001 16:00		
E00F8	Sediment/ JOE RUIZ	L/G	PCBs (7)	5-119263 (Ice Only) (1)	AP-SD029-01	S: 6/5/2001 16:15		
E00G0	Sediment/ JOE RUIZ	L/G	PCBs (7)	5-119266 (Ice Only) (1)	AP-SD029-02	S: 6/5/2001 16:15		
E00G1	Sediment/ JOE RUIZ	L/G	PCBs (7)	5-119268 (Ice Only) (1)	AP-SD029-03	S: 6/5/2001 16:15		
E00G2	Sediment/ JOE RUIZ	L/G	PCBs (7)	5-119272 (Ice Only) (1)	AP-SD030-01	S: 6/5/2001 15:45		
E00G3	Sediment/ JOE RUIZ	L/G	PCBs (7)	5-119273 (Ice Only) (1)	AP-SD030-02	S: 6/5/2001 15:45		
E00G4	Sediment/ JOE RUIZ	L/G	PCBs (7)	5-119274 (Ice Only) (1)	AP-SD030-03	S: 6/5/2001 15:45		
E00G5	Sediment/ JOE RUIZ	L/G	PCBs (7)	5-119276 (Ice Only) (1)	AP-SD030-04	S: 6/5/2001 15:45		

COPY

ORIGINAL DOCUMENTS ARE INCLUDED IN 3307-7

CSF 29294 SDG E00E6

Signature [signature]

Date 6/8/01

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC: E00H4, E00E6	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4.8°C	Chain of Custody Seal Number: 177899, 177900
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ✓ Shipment Iced? ✓

R Number: 5-154097651-060601-0001

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

Case No:	29294
DAS No:	2001ZG07
SDG No:	E00E6

L

Date Shipped:	6/6/2001
Carrier Name:	FedEx
Airbill:	821876982001
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]	6-6-01 1715	[illegible]	6-7-01 8:32
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 E00E6
E00G6	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-119278 (Ice Only) (1)	AP-SL061-01	S: 6/5/2001 16:21		
E00G7	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-119280 (Ice Only) (1)	AP-SL061-02	S: 6/5/2001 16:21		
E00G8	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-119282 (Ice Only) (1)	AP-SL061-03	S: 6/5/2001 16:21		
E00G9	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-119283 (Ice Only) (1)	AP-SL061-03DP	S: 6/5/2001 16:21		
E00H0	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-119284 (Ice Only) (1)	AP-SL061-04	S: 6/5/2001 16:21		
E00H1	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119285 (Ice Only) (1)	AP-SL069-01	S: 6/6/2001 11:30		
E00H3	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119288 (Ice Only) (1)	AP-SL069-02	S: 6/6/2001 11:30		
E00H4	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119290 (Ice Only) (1)	AP-SL069-03	S: 6/6/2001 11:30		
E00H5	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119292 (Ice Only) (1)	AP-SL069-04	S: 6/6/2001 11:30		
E00H6	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119294 (Ice Only) (1)	AP-SL069-05	S: 6/6/2001 11:30		

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC: E00H4, E00E6	Additional Sampler Signature(s): [illegible]	Cooler Temperature Upon Receipt: 4.8°C
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Chain of Custody Seal Number: 17899, 177900
			Custody Seal Intact? Y / Shipment Iced? Y

R Number: 5-154097651-060601-0001

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

Case No:	29294
DAS No:	2001ZG07
SDG No:	E00E6

L

Date Shipped:	6/6/2001
Carrier Name:	FedEx
Airbill:	821876982001
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 [signature]	6-6-01 1715	[signature]	6-7-01 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
* E00H7	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119295 (Ice Only) (1)	AP-SL069-05DP	S: 6/6/2001 11:30		
E00H8	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119298 (Ice Only) (1)	AP-SL069-06	S: 6/6/2001 11:30		
E00H9	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119300 (Ice Only) (1)	AP-SL064-01	S: 6/6/2001 12:00		
E00J0	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119302 (Ice Only) (1)	AP-SL064-02	S: 6/6/2001 12:00		
E00J1	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119303 (Ice Only) (1)	AP-SL064-03	S: 6/6/2001 12:00		
E00J2	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119305 (Ice Only) (1)	AP-SL064-04	S: 6/6/2001 12:00		
E00J3	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119307 (Ice Only) (1)	AP-SL064-04DP	S: 6/6/2001 12:00		
E00J4	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119308 (Ice Only) (1)	AP-SL064-05	S: 6/6/2001 12:00		
E00J5	Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119310 (Ice Only) (1)	AP-SD044-01	S: 6/6/2001 9:45		
E00J6	Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119311 (Ice Only) (1)	AP-SD044-02	S: 6/6/2001 9:45		

* SDG Final Sample

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Shipment for Case Complete?N	Sample(s) to be used for laboratory QC: E00H4, E00E6	Additional Sampler Signature(s): [signature]	Cooler Temperature Upon Receipt: 4-8°C	Chain of Custody Seal Number: 17899, 17900
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Y	Shipment Iced? Y

R Number: 5-154097651-060601-0001

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

Southwest Laboratory of Oklahoma
1700 W. Albany Suite C
Broken Arrow, OK 74012-1421

AMPLE LOG-IN RECORD

REVIEWED
BY
DATE 06/07/01

Date 06/07/2001 Page 1
Episode **46702**
Client **EPA**
Project OLM04.2
Received 06/07/01
Logged In 06/07/01

TEST	PRI	DUE	CONTAINER	DESCRIPTION	EXTRACTED	ANALYST	ANALYZED
Sample: **46702.01**		Sampled:06/05/01	10:46	ID:E00E5	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.02**		Sampled:06/05/01	10:46	ID:E00E7	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.03**		Sampled:06/05/01	10:46	ID:E00E8	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.04**		Sampled:06/05/01	10:46	ID:E00E9	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			ST 6/8/01
Sample: **46702.05**		Sampled:06/05/01	15:26	ID:E00F0	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.06**		Sampled:06/05/01	15:26	ID:E00F1	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.07**		Sampled:06/05/01	15:26	ID:E00F2	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.08**		Sampled:06/05/01	15:26	ID:E00F3	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.09**		Sampled:06/05/01	15:26	ID:E00F4	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.10**		Sampled:06/05/01	16:00	ID:E00F5	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.11N1**		Sampled:06/05/01	10:46	ID:E00E6	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.12MS1**		Sampled:06/05/01	10:46	ID:E00E6MS	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.13SD1**		Sampled:06/05/01	10:46	ID:E00E6MSD	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			ST 6/14/01
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.14**		Sampled:06/05/01	16:00	ID:E00F6	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			

ORIGINAL DOCUMENTS ARE INCLUDED IN
COF 29294 SDG E3047
Signature
Date 6/8/01

Southwest Laboratory of Oklahoma
1700 W. Albany Suite C
Broken Arrow, OK 74012-1421

SAMPLE LOG-IN RECORD

Date 06/07/2001 Page2
Episode **46702**
Client **EPA**
Project OLM04.2
Received 06/07/01
Logged In 06/07/01

TEST	PRI	DUE	CONTAINER	DESCRIPTION	EXTRACTED	ANALYST	ANALYZED
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.15**		Sampled:06/05/01 16:00		ID:E00F7	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.16**		Sampled:06/05/01 16:15		ID:E00F8	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.17**		Sampled:06/05/01 16:15		ID:E00G0	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.18**		Sampled:06/05/01 16:15		ID:E00G1	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.19**		Sampled:06/05/01 15:45		ID:E00G2	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.20**		Sampled:06/05/01 15:45		ID:E00G3	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.21**		Sampled:06/05/01 15:45		ID:E00G4	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.22**		Sampled:06/05/01 15:45		ID:E00G5	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.23**		Sampled:06/05/01 16:21		ID:E00G6	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.24**		Sampled:06/05/01 16:21		ID:E00G7	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.25**		Sampled:06/05/01 16:21		ID:E00G8	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.26**		Sampled:06/05/01 16:21		ID:E00G9	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.27**		Sampled:06/05/01 16:21		ID:E00H0	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.28**		Sampled:06/06/01 11:30		ID:E00H1	SDG:	Matrix: S	Containers: 1

ST 6/14/01

328

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Southwest Laboratory of Oklahoma
1700 W. Albany Suite C
Broken Arrow, OK 74012-1421

SAMPLE LOG-IN RECORD

Date 06/07/2001 Page3
Episode **46702**
Client **EPA**
Project OLM04.2
Received 06/07/01
Logged In 06/07/01

TEST	PRI	DUE	CONTAINER	DESCRIPTION	EXTRACTED	ANALYST	ANALYZED
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.29**		Sampled:06/06/01 11:30		ID:E00H3	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.30**		Sampled:06/06/01 11:30		ID:E00H5	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.31**		Sampled:06/06/01 11:30		ID:E00H6	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.32**		Sampled:06/06/01 11:30		ID:E00H7	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.33N2**		Sampled:06/06/01 11:30		ID:E00H4	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.34MS2**		Sampled:06/06/01 11:30		ID:E00H4MS	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.35SD2**		Sampled:06/06/01 11:30		ID:E00H4MSD	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.36**		Sampled:06/06/01 11:30		ID:E00H8	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.37**		Sampled:06/06/01 12:00		ID:E00H9	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.38**		Sampled:06/06/01 12:00		ID:E00J0	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.39**		Sampled:06/06/01 12:00		ID:E00J1	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.40**		Sampled:06/06/01 12:00		ID:E00J2	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46702.41**		Sampled:06/06/01 12:00		ID:E00J3	SDG:	Matrix: S	Containers: 1
GC699	6	06/13/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			

SF 6/14/01

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SAMPLE LOG-IN SHEET

Lab Name SOUTHWEST LABORATORY OF OKLAHOMA	Page 1 of 3
Received by (Print Name) JASON SPRIGGS	Log-In Date 2001-06-07 10:46
Received by (Signature)	
Case Number 29294	Sample Delivery Group No. E3007 / SAS Number

Remarks: Cooler: 06/07/01-1

1. Custody Seals(s)	Present/Absent* Intact/ Broken
2. Custody Seal Nos.	177899-900
3. Chain-of Custody Records	Present/Absent*
4. Traffic Reports or Packing Lists	Present/Absent*
5. Airbill	Airbill/ Sticker Present/Absent*
6. Airbill No.	821876982001
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	06/07/01
12. Time Received	08:30

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment: etc,
E00E5	5-119246	46702.01	
E00E7	5-119248	46702.02	
E00E8	5-119249	46702.03	
E00E9	5-119250	46702.04	
E00F0	5-119251	46702.05	
E00F1	5-119252	46702.06	
E00F2	5-119255	46702.07	
E00F3	5-119256	46702.08	
E00F4	5-119257	46702.09	
E00F5	5-119258	46702.10	
E00E6	5-119247	46702.11	
E00E6MS	5-119247	46702.12	
E00E6MSD	5-119247	46702.13	
E00F6	5-119261	46702.14	
E00F7	5-119262	46702.15	
E00F8	5-119263	46702.16	
E00G0	5-119266	46702.17	
E00G1	5-119268	46702.18	

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3007
Signature J Padlett
Date 6/8/01
ACOC

Sample Transfer	
Fraction PCB	Fraction
Area # 8	Area #
By JS	By
On 6-7-01	On

* Contact SMO and attach record of resolution.

SF 6/14/01

Reviewed By	Logbook No,
Date 06/07/01	Logbook Page No.

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FORM-DC1 OLM04.2

SAMPLE LOG-IN SHEET

Lab Name SOUTHWEST LABORATORY OF OKLAHOMA	Page 1 of 3
Received by (Print Name) JASON SPRIGGS	Log-In Date 2001-06-07 10:46
Received by (Signature)	
Case Number 29294	Sample Delivery Group No. E00E6 / SAS Number

Remarks: Cooler: 06/07/01-1

1. Custody Seals(s)	Present/Absent* Intact/ Broken
2. Custody Seal Nos.	177899-900
3. Chain-of Custody Records	Present/Absent*
4. Traffic Reports or Packing Lists	Present/Absent*
5. Airbill	Airbill/ Sticker Present/Absent*
6. Airbill No.	821876982001
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	06/07/01
12. Time Received	08:30

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment: etc,
E00E5	5-119246	46702.01	
E00E7	5-119248	46702.02	
E00E8	5-119249	46702.03	
E00E9	5-119250	46702.04	
E00F0	5-119251	46702.05	
E00F1	5-119252	46702.06	
E00F2	5-119255	46702.07	
E00F3	5-119256	46702.08	
E00F4	5-119257	46702.09	
E00F5	5-119258	46702.10	
E00E6	5-119247	46702.11	
E00E6MS	5-119247	46702.12	
E00E6MSD	5-119247	46702.13	
E00F6	5-119261	46702.14	
E00F7	5-119262	46702.15	
E00F8	5-119263	46702.16	
E00G0	5-119266	46702.17	
E00G1	5-119268	46702.18	

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E00E6
Signature
Date 6/8/01

SR 6/8/01

SR 6/14/01

Sample Transfer

Fraction PCB	Fraction
Area # 8	Area #
By JS	By
On 6-7-01	On

* Contact SMO and attach record of resolution.

Reviewed By [signature]	Logbook No.
Date 06/07/01	Logbook Page No. 531

FORM-DC1 OLM04.2

SAMPLE LOG-IN SHEET

Lab Name SOUTHWEST LABORATORY OF OKLAHOMA	Page 2 of 3
ceived by (Print Name) JASON SPRIGGS	Log-In Date 2001-06-07 10:46
Received by (Signature)	
Case Number 29294	Sample Delivery Group No. E00E6 / SAS Number

Remarks: Cooler: 06/07/01-1

1. Custody Seals(s)	Present/Absent* Intact/ Broken
2. Custody Seal Nos.	177899-900
3. Chain-of Custody Records	Present/Absent*
4. Traffic Reports or Packing Lists	Present/Absent*
5. Airbill	Airbill/ Sticker Present/Absent*
6. Airbill No.	821876982001
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	06/07/01
12. Time Received	08:30

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment: etc,
E00G2	5-119272	46702.19	
E00G3	5-119273	46702.20	
E00G4	5-119274	46702.21	
E00G5	5-119276	46702.22	
E00G6	5-119278	46702.23	
E00G7	5-119280	46702.24	
E00G8	5-119282	46702.25	
E00G9	5-119283	46702.26	
E00H0	5-119284	46702.27	
E00H1	5-119285	46702.28	
E00H3	5-119288	46702.29	
E00H5	5-119292	46702.30	
E00H6	5-119294	46702.31	
E00H7	5-119295	46702.32	
E00H4	5-119290	46702.33	
E00H4MS	5-119290	46702.34	
E00H4MSD	5-119290	46702.35	

Sample Transfer

Fraction PCB	Fraction
Area # 8	Area #
By JS	By
On 6-7-01	On

* Contact SMO and attach record of resolution.

St 6/14/01

Reviewed By [signature]	~~Logbook No.~~
Date 06/07/01	Logbook Page No. ~~522~~

FORM-DC1 OLM04.2

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

ST 4/14/01

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.

SF 4/14/01

SOUTHWEST LABORATORY OF OKLAHOMA

ANALYTICAL REQUEST FORM, SWL-GA-131

Ref# 5076

Pg 1 of 3

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	06/07/2001 Due: 06/13/2001
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: 96 soils , 5 sets QC

Client ID	Type	Matrix	GC699
E00E5		S	X
E00E7		S	X
E00E8		S	X
E00E9		S	X
E00F0		S	X
E00F1		S	X
E00F2		S	X
E00F3		S	X
E00F4		S	X
E00F5		S	X
E00E6	N1	S	X
E00E6MS	MS1	S	X
E00E6MSD	SD1	S	X
E00F6		S	X
E00F7		S	X
E00F8		S	X
E00G0		S	X
E00G1		S	X
E00G2		S	X
E00G3		S	X

ORIGINAL DOCUMENTS ARE INCLUDED IN
OCF 29294 SDG E3047
Signature S Dachow
Date 6/8/01

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 06/07/2001

SOUTHWEST LABORATORY OF OKLAHOMA

ANALYTICAL REQUEST FORM, SWL-GA-131

Ref# 5076

Pg 2 of 3

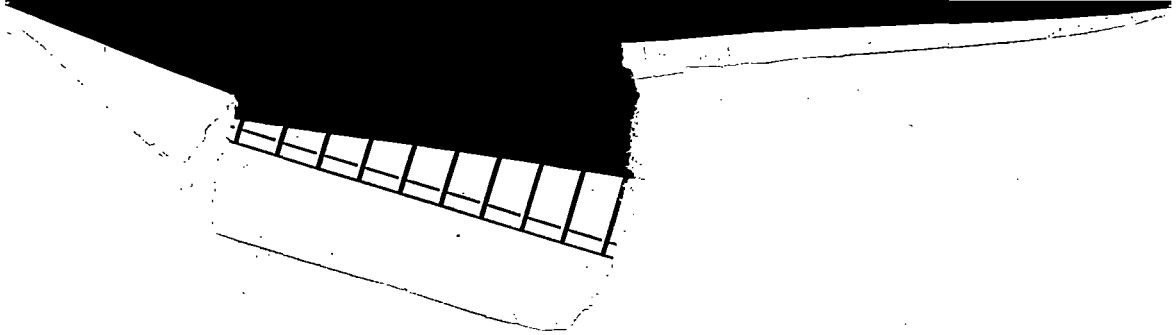
Client	ACCOUNTING OFFICER	Client Code:	EPA
Contact	Heather Bauer	Phone&Fax#:	703-264-9348 703-264-9222
Project	OLM04.2	PO Number:	
Location	29294	Receipt Date	06/07/2001 Due: 06/13/2001
SDG	Open	Sample TAT:	Fax Rpt 7
Reports			
Data Pkgs	CLP: 2		
EDD			

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: 96 soils , 5 sets QC

Client ID	Type	Matrix	GC699									
E00G4		S	X									
E00G5		S	X									
E00G6		S	X									
E00G7		S	X									
E00G8		S	X									
E00G9		S	X									
E00H0		S	X									
E00H1		S	X									
E00H3		S	X									
E00H5		S	X									
E00H6		S	X									
E00H7		S	X									
E00H4	N2	S	X									
E00H4MS	MS2	S	X									
E00H4MSD	SD2	S	X									
E00H8		S	X									
E00H9		S	X									
E00J0		S	X									
E00J1		S	X									
E00J2		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 06/07/2001