Data Review
Site Name: Allied Paper (MI)
Case Number: 29602 Laboratory: Southwest Laboratory
SDG: E02F5

Friday, October 12, 2001

US EPA RECORDS CENTER REGION 5
560040

PCBs

Samples:

Sample No	Station Location	Matrix	Date Collected	Date Extracted	Date Analyzed
E02F5	AP-SL053-11-03	Soil	08/10/01	08/15/01	09/12/01
E02F6	AP-SL053-11-04	Soil	08/10/01	08/15/01	09/12/01
E02F7	AP-SL053-11-04DP	Soil	08/10/01	08/15/01	09/12/01
E02F8	AP-SL053-11-05	Soil	08/10/01	08/15/01	09/12/01
E02F9	AP-SL053-11-06	Soil	08/10/01	08/15/01	09/12/01
E02G0	AP-SL053-01-01	Soil	08/10/01	08/15/01	09/12/01
E02G1	AP-SL053-01-01DP	Soil	08/10/01	08/15/01	09/12/01
E02G2	AP-SL053-01-02	Soil	08/10/01	08/15/01	09/12/01
E02G3	AP-SL053-01-03	Soil	08/10/01	08/15/01	09/12/01
E02G4	AP-SL053-01-04	Soil	08/10/01	08/15/01	09/12/01
E02G5	AP-SL053-01-05	Soil	08/10/01	08/15/01	09/12/01
E02G6	AP-SL053-01-06	Soil	08/10/01	08/15/01	09/12/01
E02G7	AP-SL053-07-01	Soil	08/13/01	08/15/01	09/12/01
E02G8	AP-SL053-07-01DP	Soil	08/13/01	08/15/01	09/12/01
E02G9	AP-SL053-07-02	Soil	08/13/01	08/15/01	09/12/01
E02H0	AP-SL053-07-03	Soil	08/13/01	08/15/01	09/12/01
E02H1	AP-SL053-07-04	Soil	08/13/01	08/15/01	09/12/01
E02H2	AP-SL053-07-05	Soil	08/13/01	08/15/01	09/12/01
E02H3	AP-SL053-07-06	Soil	08/13/01	08/15/01	09/12/01
E02H4	AP-SL053-10-01	Soil	08/13/01	08/15/01	09/12/01

Holding Time:

All samples were extracted and analyzed within the required holding time. The samples arrived in a cooler at 1.2 & 3.4 degrees Celsius.

Method Blank:

The method blank PBLKSA was associated with this SDG. PBLKSA was analyzed on 09/11/01 with (E02F5 thru E02F9, E02G0 thru E02G9, E02H0 thru E02H4, and MS/MSD). PBLKSA results were free of contamination. All samples underwent OLMO4.2 cleanup, Silica Gel Cleanup, and sulfuric acid cleanup prior analysis. All instrument blanks associated with this sample set were free of contamination.

Surrogate Recovery:

All method blanks and investigated samples had surrogate recoveries within the acceptance quality control limits (30 to 170%).

Matrix Spike/ Matrix Spike Duplicate Recovery:

The matrix spike/ matrix spike duplicate audit was performed on sample E02F5. The matrix spike/ matrix spike duplicate recoveries were within the quality control limits (29-135%). Also, the relative percent difference (RPD %) recovery was acceptable.

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

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

Initial And Continuing Verifications Calibration:
The initial calibrations were analyzed for the arochlor, and the recoveries were within the quality control limit of an average (RSD 20%).
The multi-component calibration verification recoveries were within the quality control limit, except in aroclor 1016 #1, #3, #4, #5, and aroclor 1260 for all five levels in RTX-PEST 2 column. Also, in 1016 for all five levels and 1260 #1, #2, #3, #4 in RTX-PEST were analyzed on 09/12/01 at 0959, 1026. In aroclor 1016 #1, #3, #4, #5, 1260 #1, #2, #4, and in aroclor 1016 #1, #3, #4, #5, aroclor 1260 #1, #2, #3, #4 for both columns RTX-PEST 2, RTX-PEST were analyzed on 09/12/01 at 1622, 1649 and outside the acceptable limits (an average RSD 15%). Therefore, qualify the results for all the seven aroclor in the following associated samples: E02G7, E02G8, E02G9, E02H0, E02H1, E02H2, E02H3, and E02H4 as estimated (J/UJ).

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: 10/12/01

067-4A-AAXU

DATE: October 3, 2001

CC: D. GEERS
J. THORSEN
R. MEHL
T. BALLA

RECEIVED
OCT - 5 2001

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

Attn: Tonya Balla

SITE NAME: Allied Paper

CASE NO.	LAB	NO # OF SAMPLES	SDG	MATRIX
29602	SOUTHWEST	20	E02F5	Soil

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

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

Data Received by:_____ Date:_____

PROBLEMS:

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

_____

_____

Received by Data Management Coordinator, CRL for file.

Date:_____

Signature:_____

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

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

TB

SEP 17 2001

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME SOUTHWEST LABORATORY OF OKLAHOMA
CITY/STATE BROKEN ARROW, OKLAHOMA
CASE NO. 29602 SDG NO. E02F5 SDG NOS. TO FOLLOW
SAS NO.
CONTRACT NO.
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	8		
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. 29602 SDG NO. E02F5 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	9	9		
MS/MSD Duplicate Summary (Form III PEST)	10	11		
Method Blank Summary (Form IV PEST)	12	12		

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

CASE NO. 29602 SDG NO. E02F5 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. Pesticides Data (Cont.)				
e. Raw GPC Data	225	290		
f. Raw Florisil Data	NA	NA		
7. Miscellaneous Data				
Original preparation and analysis forms or of preparation and analysis logbook pages	291	295		
Internal sample and sample extract transfer chain-of-custody records	296	303		
Screening records	NA	NA		
All instrument output, including strip charts from screening activities (describe or list)				
8. EPA Shipping/Receiving Documents				
Airbills (No. of shipments 2)	304	304		
Chain-of-Custody Records	305	309		
Sample Tags	310	329		
Sample Log-in Sheet (Lab & DC1)	330	334		
Miscellaneous Shipping/Receiving Records (describe or list)				
Memos, Changes, Analytical Request	335	344		
	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. 29602 SDG NO. E02F5 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	(Signature)	(Printed Name/Title)	(Date)
Completed by: (CLP Lab)	Emma Morton	Emma Morton DAYA Clerk	9-17-01
Verified by: (CLP Lab)			
Audited by: (EPA)			

SEP 17 2001

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

SDG NARRATIVE

September 17, 2001

CONTRACT: 68W99079

CASE NO: 29602

SDG NO: E02F5

SAMPLES: E02F5, E02F6, E02F7, E02F8, E02F9, E02G0, E02G1, E02G2, E02G3, E02G4, E02G5, E02G6, E02G6MS, E02G6MSD, E02G7, E02G8, E02G9, E02H0, E02H1, E02H2, E02H3 and E02H4.

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 Restek dual analytical columns RTX-PEST (also known as PEST I)(proprietary phase composition, length 30m, id 0.32 mm, film thickness 0.5 um) and RTX-PEST 2 (also known as PEST II) (proprietary phase composition, length 30m, id 0.32 mm, film thickness 0.25 um) columns which 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 used as the carrier gas.

The sample cooler arrived at 1.2 & 3.4 degrees Celsius. Note: two sets of QC were picked by the samples for this SDG. The first set picked was used (see e-mail log).

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. As per e-mail correspondence of 8/24/01 the laboratory had made a modification for initial dilution and if PCBs are within instruments linear range no 10X more concentrated analyses will be performed by the laboratory.

Note: There was a minor sequence error and PIBLANK (PIBLKCX) was loaded and analyzed after (CCV) AR1660L3C0, instead of prior to CCV. No corrective action was taken for this minor infraction. Note both CCV and PIBLANK were within respective QC.

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

Surrogates: All surrogates were within QC limits with the following exceptions:

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 MS/MSD 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 Aroclor 1016, 1242, 1254 and 1260 and all percent RSDs were within QC limits (average of all peaks at > 20%RSD)

Calibration Verifications: Calibration verifications were analyzed for Aroclors 1016 and 1260. All percent differences were within QC limits (average of all peaks at ≥ 15%). AR1660L3CQ analyzed on 09/12/01 at 1026 hrs had high %D on RTX-PEST 2 column for aroclor 1016 at 23.1% and aroclor 1260 at 27.5%. AR1660L3CQ analyzed on 09/12/01 at 1026 hrs had high %D on RTX-PEST column for aroclor 1016 at 26.9% and aroclor 1260 at 29.8%. AR1660L3CS analyzed on 09/12/01 at 1649 hrs had high %D on RTX-PEST 2 column for aroclor 1016 at 16.1% and aroclor 1260 at 18.7%. AR1660L3CS analyzed on 09/12/01 at 1649 hrs had high %D on RTX-PEST column for aroclor 1016 at 17.6% and aroclor 1260 at 20.8%.

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/her designee, as verified by the following signature.

Harry M. Borg
Organic Program Manager September 17, 2001

Contract Laboratory Program

Sample Delivery Group (SDG) Cover Sheet

SDG Number E02F5

St 8/16/01

Laboratory Name Southwest Laboratory of Ok. Laboratory Code SWOK

Contract No. 68W99079 Case No. ~~OLM04.2~~ 29602

Analyses Price 569.00 SDG Turnaround 21

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) E02F5	7) E02G1	13) E02G7	19) E02H3
2) E02F6	8) E02G2	14) E02G8	20) E02H4
3) E02F7	9) E02G3	15) E02G9	21)
4) E02F8	10) E02G4	16) E02H0	22)
5) E02F9	11) E02G5	17) E02H1	23)
6) E02G0	12) E02G6	18) E02H2	24)

St 8/16/01

E02F5	E02H4
First Sample in SDG	Last Sample in SDG
08/11/2001	08/15/2001
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 8-16-01

Version 2.0

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

Case No:	29602
DAS No:	
SDG No:	E02F5

Date Shipped:	8/10/2001
Carrier Name:	FedEx
Airbill:	821876980292
Shipped to:	Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545

Chain of Custody Record

Sampler Signature:

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [illegible]	8/10/01 1115	[illegible]	8-11-01 9:30
2			
3			
4			

For Lab Use Only

Lab Contract No:	68W99079
Unit Price:	569.00
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
E02E8	Soil/Sediment/ Ben Maradkel	L/G	PCBs (21)	038786 (Ice Only) (1)	AP-SL053-05-01	S:	8/10/2001	8:50		
E02E9	Soil/Sediment/ Ben Maradkel	L/G	PCBs (21)	038787 (Ice Only) (1)	AP-SL053-05-02	S:	8/10/2001	8:50		
E02F0	Soil/Sediment/ Ben Maradkel	L/G	PCBs (21)	038788 (Ice Only) (1)	AP-SL053-05-03	S:	8/10/2001	8:50		
E02F1	Soil/Sediment/ Ben Maradkel	L/G	PCBs (21)	038789 (Ice Only) (1)	AP-SL053-05-04	S:	8/10/2001	8:50		
E02F2	Soil/Sediment/ Ben Maradkel	L/G	PCBs (21)	038790 (Ice Only) (1)	AP-SL053-05-05	S:	8/10/2001	8:50		
E02F3	Soil/Sediment/ Ben Maradkel	L/G	PCBs (21)	038791 (Ice Only) (1)	AP-SL053-11-01	S:	8/10/2001	8:25		
E02F4	Soil/Sediment/ Ben Maradkel	L/G	PCBs (21)	038792 (Ice Only) (1)	AP-SL053-11-02	S:	8/10/2001	8:25		
E02F5	Soil/Sediment/ Ben Maradkel	L/G	PCBs (21)	038793 (Ice Only) (1)	AP-SL053-11-03	S:	8/10/2001	8:25		
E02F6	Soil/Sediment/ Ben Maradkel	L/G	PCBs (21)	038794 (Ice Only) (1)	AP-SL053-11-04	S:	8/10/2001	8:25		
E02F7	Soil/Sediment/ Ben Maradkel	L/G	PCBs (21)	038795 (Ice Only) (1)	AP-SL053-11-04DP	S:	8/10/2001	8:25		

E02F5

OK

original in SDG of E02D5 8-16-01

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E02F0, E02G6	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 3.4 TB	Chain of Custody Seal Number: 177881, 177882
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: 5-490998136-081001-0002

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

LABORATORY COPY

F2V5.0.66 Page 1 of 2

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

Case No:	29602
DAS No:	
SDG No:	E02F5

L

Date Shipped:	8/10/2001
Carrier Name:	FedEx
Airbill:	821876980292
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]	8/10/01 1115	[illegible]	8-11-01 5:30
2			
3			
4			

Sampler Signature: [illegible]

For Lab Use Only

Lab Contract No:	48W99079
Unit Price:	569.00
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 E02F5
E02F8	Soil/Sediment/ Ben Maradkel	L/G	PCBs (21)	038796 (Ice Only) (1)	AP-SL053-11-05	S: 8/10/2001 8:25		OK
E02F9	Soil/Sediment/ Ben Maradkel	L/G	PCBs (21)	038797 (Ice Only) (1)	AP-SL053-11-06	S: 8/10/2001 8:25		
E02G0	Soil/Sediment/ Ben Maradkel	L/G	PCBs (21)	038798 (Ice Only) (1)	AP-SL053-01-01	S: 8/10/2001 9:18		
E02G1	Soil/Sediment/ Ben Maradkel	L/G	PCBs (21)	038799 (Ice Only) (1)	AP-SL053-01-01DP	S: 8/10/2001 9:18		
E02G2	Soil/Sediment/ Ben Maradkel	L/G	PCBs (21)	038800 (Ice Only) (1)	AP-SL053-01-02	S: 8/10/2001 9:18		8-11-01
E02G3	Soil/Sediment/ Ben Maradkel	L/G	PCBs (21)	038801 (Ice Only) (1)	AP-SL053-01-03	S: 8/10/2001 9:18		
E02G4	Soil/Sediment/ Ben Maradkel	L/G	PCBs (21)	038802 (Ice Only) (1)	AP-SL053-01-04	S: 8/10/2001 9:18		
E02G5	Soil/Sediment/ Ben Maradkel	L/G	PCBs (21)	038803 (Ice Only) (1)	AP-SL053-01-05	S: 8/10/2001 9:18		
E02G6	Soil/Sediment/ Ben Maradkel	L/G	PCBs (21)	038804 (Ice Only) (1)	AP-SL053-01-06	S: 8/10/2001 9:18		

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC: E02F0, E02G6	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 3-4 TB	Chain of Custody Seal Number: 177881, 177882
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: 5-490998136-081001-0002

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: 29602
DAS No:
SDG No: E02F5

L

Date Shipped: 8/14/2001
Carrier Name: FedEx
Airbill: 821876982089
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	8-14-01 1740		8-15-01 8:30
2			
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No: 68W99009
Unit Price: $69.00
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 E02F5
E02M0	Soil/Sediment/ Joe Ruiz	L/C	PCBs (21)	038848 (Ice Only) (1)	AP-SL053-36-04	S:	8/14/2001	9:58		OK
E02M1	Soil/Sediment/ Joe Ruiz	L/C	PCBs (21)	038849 (Ice Only) (1)	AP-SL053-36-05	S:	8/14/2001	9:58		8-15-01
E02M2	Soil/Sediment/ Joe Ruiz	L/C	PCBs (21)	038850 (Ice Only) (1)	AP-SL053-36-06	S:	8/14/2001	9:58		
E02M3	Soil/Sediment/ Joe Ruiz	L/C	PCBs (21)	038851 (Ice Only) (1)	AP-SL053-18-01	S:	8/14/2001	8:20		
E02M4	Soil/Sediment/ Joe Ruiz	L/C	PCBs (21)	038852 (Ice Only) (1)	AP-SL053-18-02	S:	8/14/2001	8:20		
E02M5	Soil/Sediment/ Joe Ruiz	L/C	PCBs (21)	038853 (Ice Only) (1)	AP-SL053-18-03	S:	8/14/2001	8:20		
E02M6	Soil/Sediment/ Joe Ruiz	L/C	PCBs (21)	038854 (Ice Only) (1)	AP-SL053-18-04	S:	8/14/2001	8:20		
E02M7	Soil/Sediment/ Joe Ruiz	L/C	PCBs (21)	038855 (Ice Only) (1)	AP-SL053-26-01	S:	8/14/2001	9:45		
E02H0	Soil/Sediment/ Joe Ruiz	L/C	PCBs (21)	038808 (Ice Only) (1)	AP-SL053-07-03	S:	8/13/2001	14:40		
E02H1	Soil/Sediment/ Joe Ruiz	L/C	PCBs (21)	038809 (Ice Only) (1)	AP-SL053-07-04	S:	8/13/2001	14:40		

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E02G9, E02J8, E02L9	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 1.2 TR	Chain of Custody Seal Number: 177828, 177829
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: 5-490998136-081401-0001

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: 29602
DAS No:
SDG No: E02F5

L

Date Shipped: 8/14/2001
Carrier Name: FedEx
Airbill: 821876982089
Shipped to: Southwest Labs of Oklahoma, Inc.
1700 West Albany
Suite C
Broken Arrow OK 74012
(918) 251-0545

Chain of Custody Record

Sampler Signature:

Relinquished By	(Date / Time)	Received By	(Date / Time)
1	8-14-01 1740		8-15-01 8:30
2			
3			
4			

For Lab Use Only

Lab Contract No: 68W99079
Unit Price: $69.00
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 E02F5
E02H2	Soil/Sediment/ Joe Ruiz	L/C	PCBs (21)	038810 (Ice Only) (1)	AP-SL053-07-05	S: 8/13/2001 14:40		OK 8-15-01

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:
	E02G9, E02J8, E02L9		1-2 TB	177828, 177829

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: 5-490998136-081401-0001

LABORATORY COPY

t 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: 29602
DAS No:
SDG No: E02F5

L

Date Shipped: 8/14/2001
Carrier Name: FedEx
Airbill: 821876982089
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]	8-14-01 1740	[signature]	8-15-01 8:30
2				
3				
4				

Sampler Signature: [signature]

For Lab Use Only
Lab Contract No: 68W99079
Unit Price: $69.00
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 E02F5
E02G7	Soil/Sediment/ Joe Ruiz	L/C	PCBs (21)	038805 (Ice Only) (1)	AP-SL053-07-01	S:	8/13/2001	14:40		OK
E02G8	Soil/Sediment/ Joe Ruiz	L/C	PCBs (21)	038806 (Ice Only) (1)	AP-SL053-07-01DP	S:	8/13/2001	14:40		8-15-01
E02G9	Soil/Sediment/ Joe Ruiz	L/C	PCBs (21)	038807 (Ice Only) (1)	AP-SL053-07-02	S:	8/13/2001	14:40		
E02H3	Soil/Sediment/ Joe Ruiz	L/C	PCBs (21)	038811 (Ice Only) (1)	AP-SL053-07-06	S:	8/13/2001	14:40		
X E02H4	Soil/Sediment/ Joe Ruiz	L/C	PCBs (21)	038812 (Ice Only) (1)	AP-SL053-10-01	S:	8/13/2001	15:12		
E02H5	Soil/Sediment/ Joe Ruiz	L/C	PCBs (21)	038813 (Ice Only) (1)	AP-SL053-10-02	S:	8/13/2001	15:12		
E02H6	Soil/Sediment/ Joe Ruiz	L/C	PCBs (21)	038814 (Ice Only) (1)	AP-SL053-10-03	S:	8/13/2001	15:12		
E02H7	Soil/Sediment/ Joe Ruiz	L/C	PCBs (21)	038815 (Ice Only) (1)	AP-SL053-10-04	S:	8/13/2001	15:12		
E02H8	Soil/Sediment/ Joe Ruiz	L/C	PCBs (21)	038816 (Ice Only) (1)	AP-SL053-10-05	S:	8/13/2001	15:12		
E02H9	Soil/Sediment/ Joe Ruiz	L/G	PCBs (21)	038817 (Ice Only) (1)	AP-SL053-09-01	S:	8/13/2001	15:43		

* SDG Final Sample.

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E02G9, E02J8, E02L9	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 1.2 TB	Chain of Custody Seal Number: 177828, 177829
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: 5-490998136-081401-0001

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

2F
SOIL AROCLOR SURROGATE RECOVERY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

GC Column(1): RTX-PEST 2 ID: 0.32(mm) GC Column(2): RTX-PEST ID: 0.32(mm)

	CLIENT SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	TOT OUT
01	PBLKSA	76	69	82	86	0
02	ELCS1	80	71	81	87	0
03	ELCS2	79	73	79	85	0
04	E02F5	81	75	80	90	0
05	E02F6	74	65	74	84	0
06	E02F7	76	68	70	76	0
07	E02F8	97	86	87	96	0
08	E02F9	93	85	85	100	0
09	E02G0	71	67	74	82	0
10	E02G1	84	78	83	92	0
11	E02G2	77	69	80	86	0
12	E02G3	90	78	83	92	0
13	E02G4	81	70	68	75	0
14	E02G5	87	81	83	96	0
15	E02G6	105	95	96	107	0
16	E02G6MS	88	80	81	90	0
17	E02G6MSD	96	88	89	99	0
18	E02G7	98	87	96	105	0
19	E02G8	87	80	82	91	0
20	E02G9	95	84	82	91	0
21	E02H0	96	75	77	85	0
22	E02H1	93	85	83	90	0
23	E02H2	87	86	74	80	0
24	E02H3	89	79	83	91	0
25	E02H4	87	78	81	89	0
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 Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

LCS Sample NO.: ELCS1

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Aroclor-1254	133	107	80	29-135

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1254	133	114	86	6	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 Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix Spike - Client Sample NO.: E02G6

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Aroclor-1254	1330	0	1300	98	29-135

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1254	1320	1410	107	8	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.

PBLKSA

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Lab Sample ID: BL0815SA Lab File ID: 16091124

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

Sulfur Cleanup: (Y/N) Y Date Extracted: 08/15/01

Date Analyzed (1): 09/11/01 Date Analyzed (2): 09/11/01

Time Analyzed (1): 2205 Time Analyzed (2): 2205

Instrument ID (1): HP_16A Instrument ID (2): HP_16B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST 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	LC0815SA	09/11/01	09/11/01
02	ELCS2	LD0815SA	09/11/01	09/11/01
03	E02F5	47268.01	09/11/01	09/11/01
04	E02F6	47268.02	09/12/01	09/12/01
05	E02F7	47268.03	09/12/01	09/12/01
06	E02F8	47268.04	09/12/01	09/12/01
07	E02F9	47268.05	09/12/01	09/12/01
08	E02G0	47268.06	09/12/01	09/12/01
09	E02G1	47268.07	09/12/01	09/12/01
10	E02G2	47268.08	09/12/01	09/12/01
11	E02G3	47268.09	09/12/01	09/12/01
12	E02G4	47268.10	09/12/01	09/12/01
13	E02G5	47268.11	09/12/01	09/12/01
14	E02G6	47268.12	09/12/01	09/12/01
15	E02G6MS	47268.13MS	09/12/01	09/12/01
16	E02G6MSD	47268.14MSD	09/12/01	09/12/01
17	E02G7	47279.01	09/12/01	09/12/01
18	E02G8	47279.02	09/12/01	09/12/01
19	E02G9	47279.03	09/12/01	09/12/01
20	E02H0	47279.04	09/12/01	09/12/01
21	E02H1	47279.05	09/12/01	09/12/01
22	E02H2	47279.06	09/12/01	09/12/01
23	E02H3	47279.07	09/12/01	09/12/01
24	E02H4	47279.08	09/12/01	09/12/01
25				
26				

Comments: _____

page 1 of 1

HYDROGEN USED AS CARRIER GAS FOR SAMPLE ANALYSES

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02F5

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix: (soil/water) SOIL Lab Sample ID: 47268.01

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

% Moisture: 88 decanted: (Y/N) __ Date Received: 08/11/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/11/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	270	U
11104-28-2	Aroclor-1221	270	U
11141-16-5	Aroclor-1232	270	U
53469-21-9	Aroclor-1242	270	U
12672-29-6	Aroclor-1248	270	U
11097-69-1	Aroclor-1254	270	U
11096-82-5	Aroclor-1260	270	U
	Surrogate amount spiked	55.19	

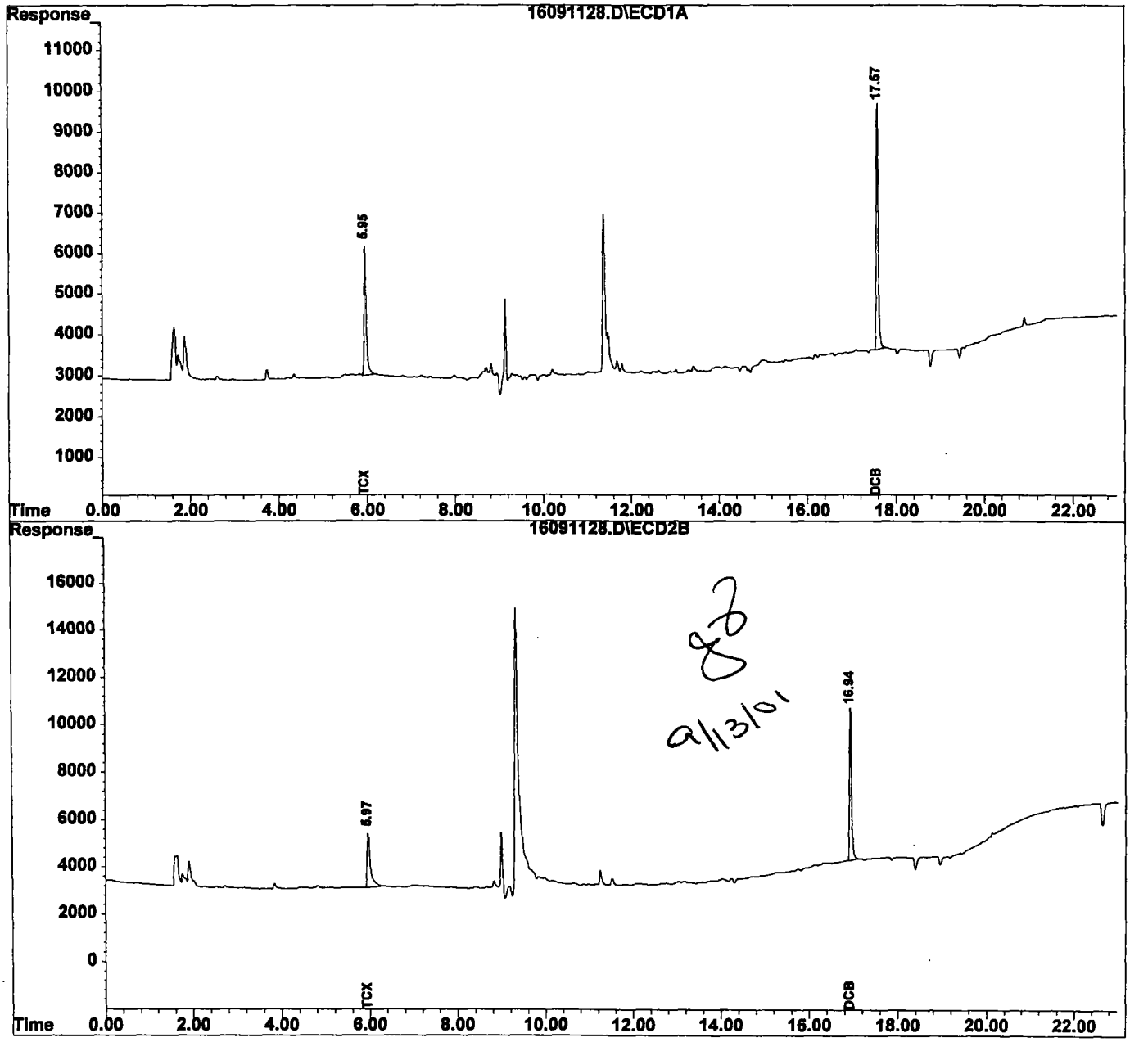
FORM I PCB

Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091128.D\ECD1A.CH Vial: 32
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091128.D\ECD2B.CH
Acq On : 11 Sep 2001 23:51 Operator: DDC
Sample : 47268.01 *E02F5 * Inst : HP_16
Misc : *EPA*30.2G/5.0ML*88 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:45 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B



Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091128.D\ECD1A.CH Vial: 32
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091128.D\ECD2B.CH
Acq On : 11 Sep 2001 23:51 Operator: DDC
Sample : 47268.01 *E02F5 * Inst : HP_16
Misc : *EPA*30.2G/5.0ML*88 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:45 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

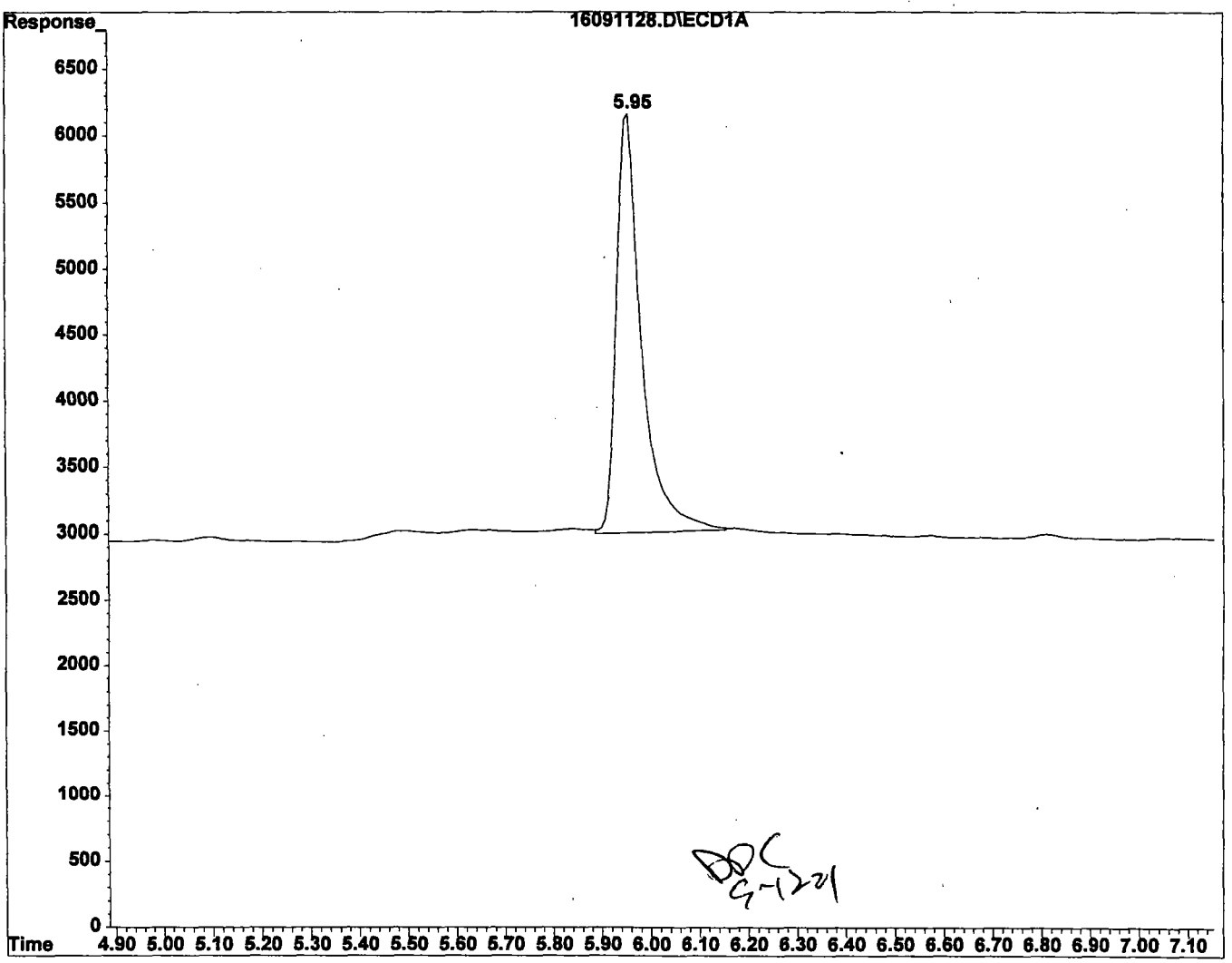
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.95	5.97	112072	118175	44.6m DDC 9-12-01	41.5m DDC 9-12-01
	Spiked Amount 55.188			Recovery	=	80.82%	75.20%
22)	S DCB	17.57	16.94	183416	202293	44.3m	49.5m
	Spiked Amount 55.188			Recovery	=	80.27%	89.69%

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\09_11_01\16091128.D
Date Acquired: 11 Sep 2001 23:51
Inst: HP_16 Operator ID: DDC
Name: 47268.01 *E02F5 *
Misc: *EPA*30.2G/5.0ML*88
Method: F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title: PCB/TOXAPHENE
Quant Time: Sep 12 13:45 2001 Quant Results File: XPCBI11.RES



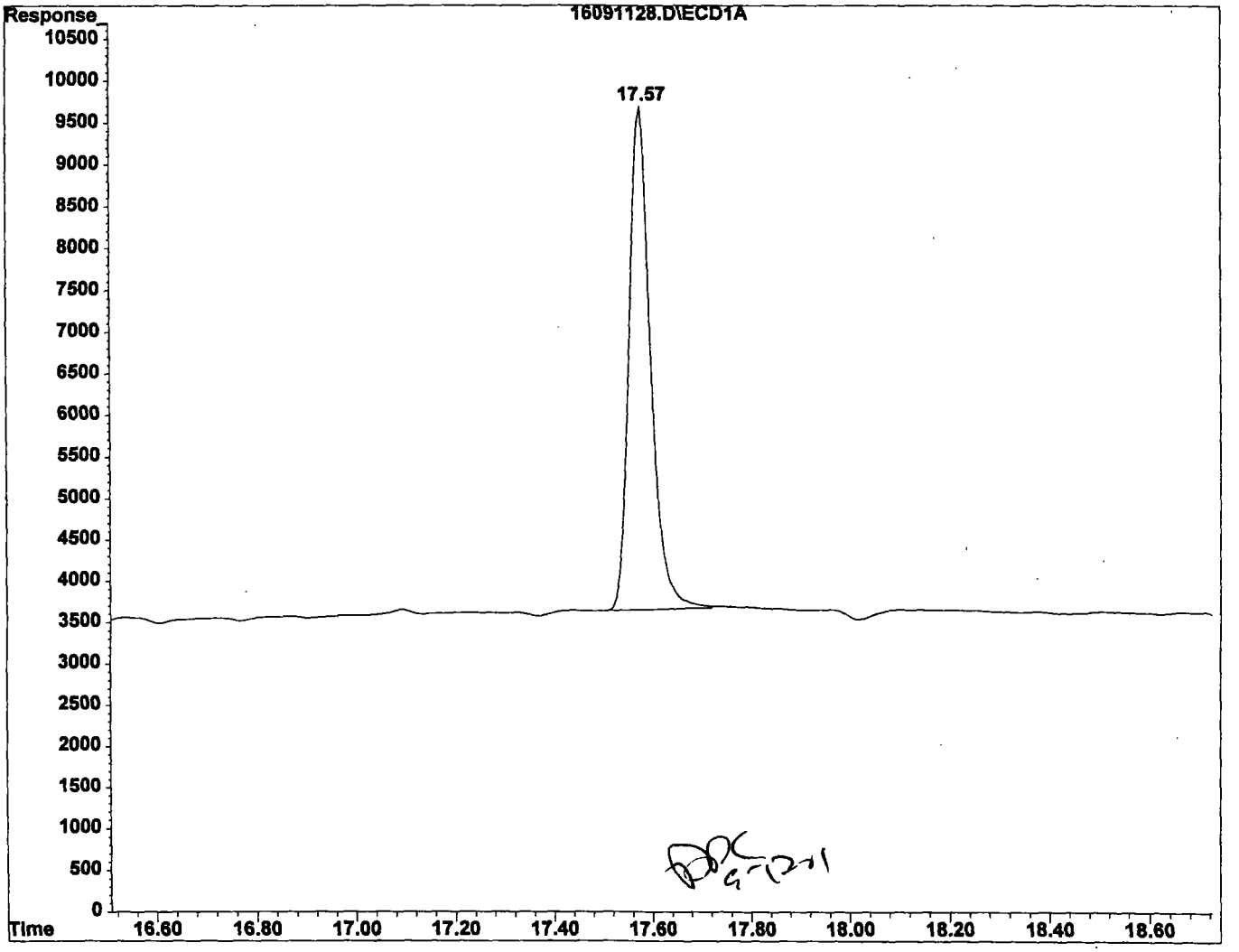
TCX 5.95min area: 112072 m

Integration Time Range: 5.89 - 6.15

F:\HPCHEM\HP\16\DATA\09_11_01\16091128.D
Report generated: Wed Sep 12 13:45:50 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\09_11_01\16091128.D
Date Acquired: 11 Sep 2001 23:51
Inst: HP_16 Operator ID: DDC
Name: 47268.01 *E02F5 *
Misc: *EPA*30.2G/5.0ML*88
Method: F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title: PCB/TOXAPHENE
Quant Time: Sep 12 13:45 2001 Quant Results File: XPCBI11.RES



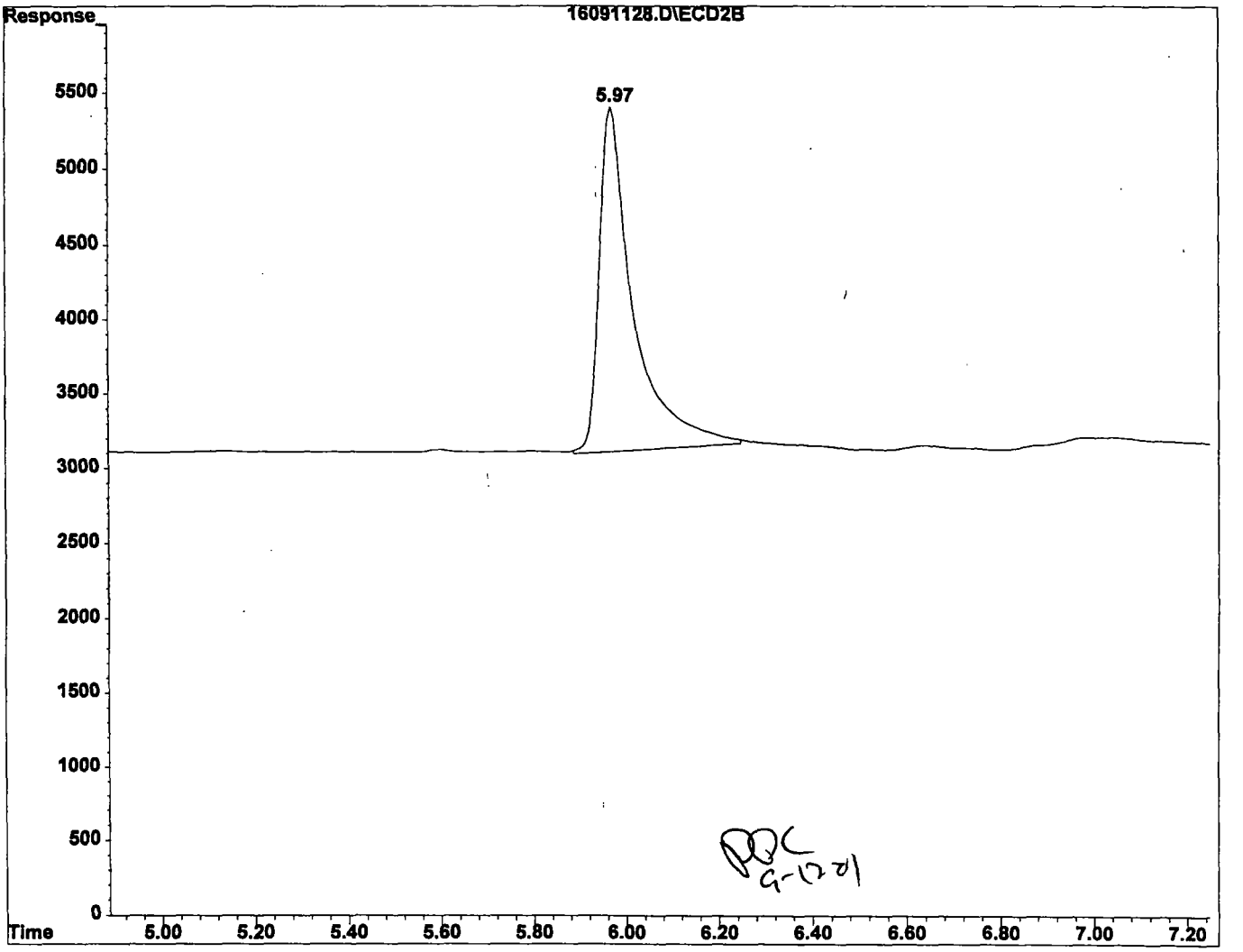
DCB 17.57min area: 183416 m

Integration Time Range: 17.51 - 17.72

F:\HPCHEM\HP\16\DATA\09_11_01\16091128.D
Report generated: Wed Sep 12 13:45:51 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\09_11_01\16091128.D
Date Acquired: 11 Sep 2001 23:51
Inst: HP_16 Operator ID: DDC
Name: 47268.01 *E02F5 *
Misc: *EPA*30.2G/5.0ML*88
Method: F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title: PCB/TOXAPHENE
Quant Time: Sep 12 13:45 2001 Quant Results File: XPCBI11.RES



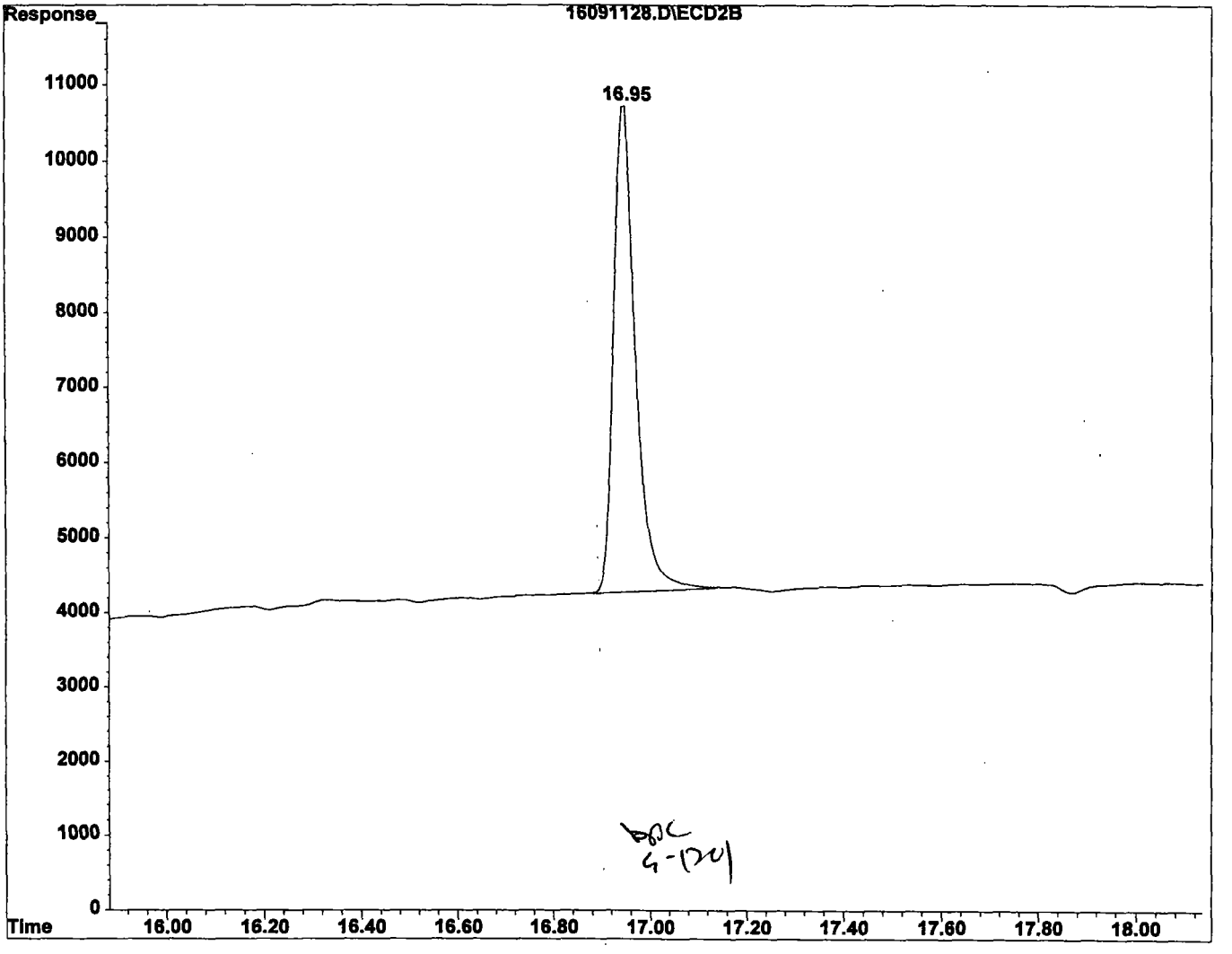
TCX #2 5.97min area: 118175 m

Integration Time Range: 5.89 - 6.25

F:\HPCHEM\HP\16\DATA\09_11_01\16091128.D
Report generated: Wed Sep 12 13:45:51 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\09_11_01\16091128.D
Date Acquired: 11 Sep 2001 23:51
Inst: HP_16 Operator ID: DDC
Name: 47268.01 *E02F5 *
Misc: *EPA*30.2G/5.0ML*88
Method: F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title: PCB/TOXAPHENE
Quant Time: Sep 12 13:45 2001 Quant Results File: XPCBI11.RES



DCB #2 16.94min area: 202293 m

Integration Time Range: 16.88 - 17.14

F:\HPCHEM\HP\16\DATA\09_11_01\16091128.D
Report generated: Wed Sep 12 13:45:52 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02F6

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix: (soil/water) SOIL Lab Sample ID: 47268.02

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

% Moisture: 86 decanted: (Y/N) __ Date Received: 08/11/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/12/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	230	U
11104-28-2	Aroclor-1221	230	U
11141-16-5	Aroclor-1232	230	U
53469-21-9	Aroclor-1242	230	U
12672-29-6	Aroclor-1248	230	U
11097-69-1	Aroclor-1254	230	U
11096-82-5	Aroclor-1260	230	U
	Surrogate amount spiked	47.47	

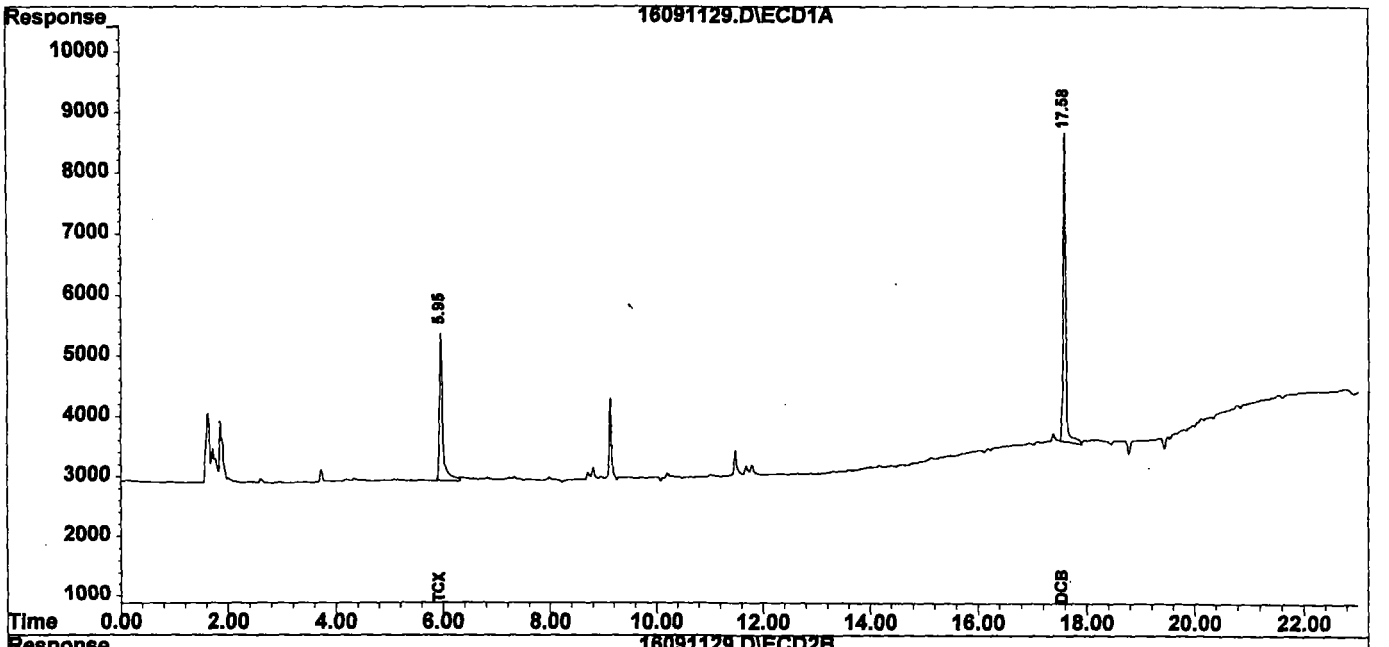
FORM I PCB

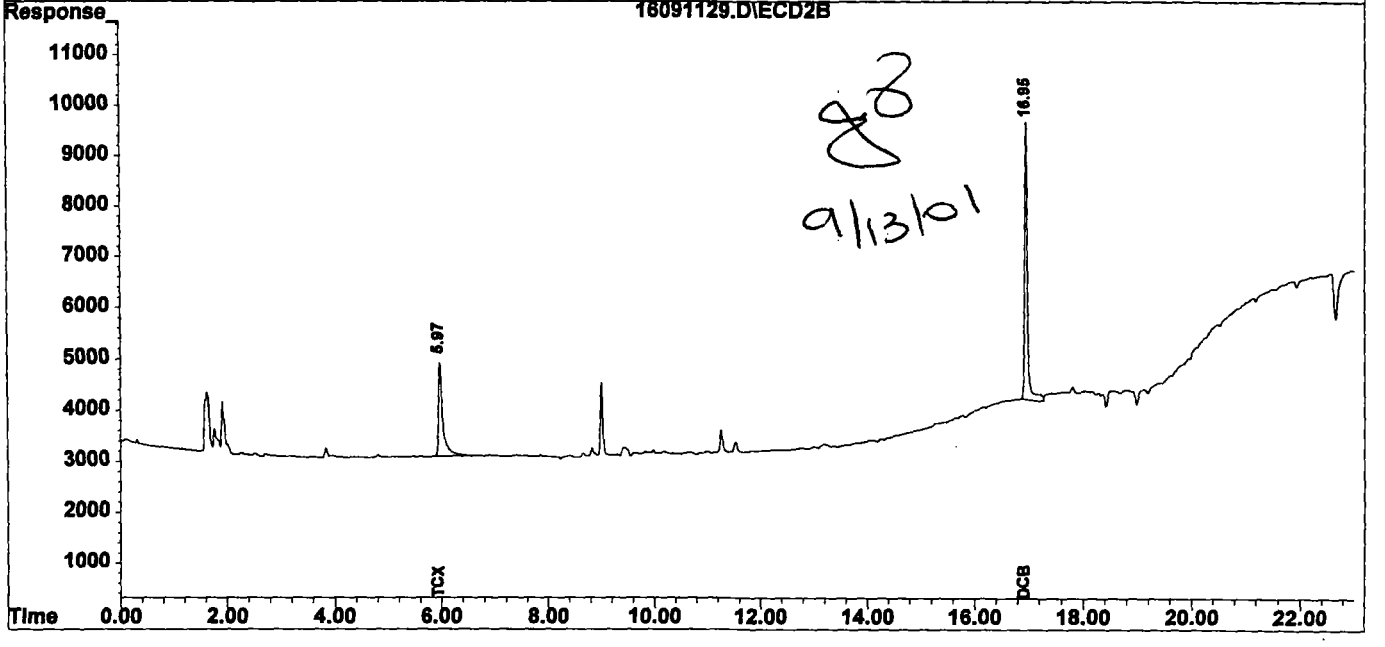
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091129.D\ECD1A.CH Vial: 33
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091129.D\ECD2B.CH
Acq On : 12 Sep 2001 00:18 Operator: DDC
Sample : 47268.02 *E02F6 * Inst : HP_16
Misc : *EPA*30.1G/5.0ML*86 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:01 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





gB
9/13/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091129.D\ECD1A.CH Vial: 33
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091129.D\ECD2B.CH
Acq On : 12 Sep 2001 00:18 Operator: DDC
Sample : 47268.02 *E02F6 * Inst : HP_16
Misc : *EPA*30.1G/5.0ML*86 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:01 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.96	5.97	103101	101817	35.3	30.7
	Spiked Amount 47.461			Recovery	=	74.38%	64.68%
22)	S DCB	17.58	16.95	169921	190520	35.3	40.1
	Spiked Amount 47.461			Recovery	=	74.38%	84.49%

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

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02F7

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix: (soil/water) SOIL Lab Sample ID: 47268.03

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

% Moisture: 47 decanted: (Y/N) __ Date Received: 08/11/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/12/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.7 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	62	U
11104-28-2	Aroclor-1221	62	U
11141-16-5	Aroclor-1232	62	U
53469-21-9	Aroclor-1242	62	U
12672-29-6	Aroclor-1248	62	U
11097-69-1	Aroclor-1254	62	U
11096-82-5	Aroclor-1260	62	U
Surrogate amount spiked		12.50	

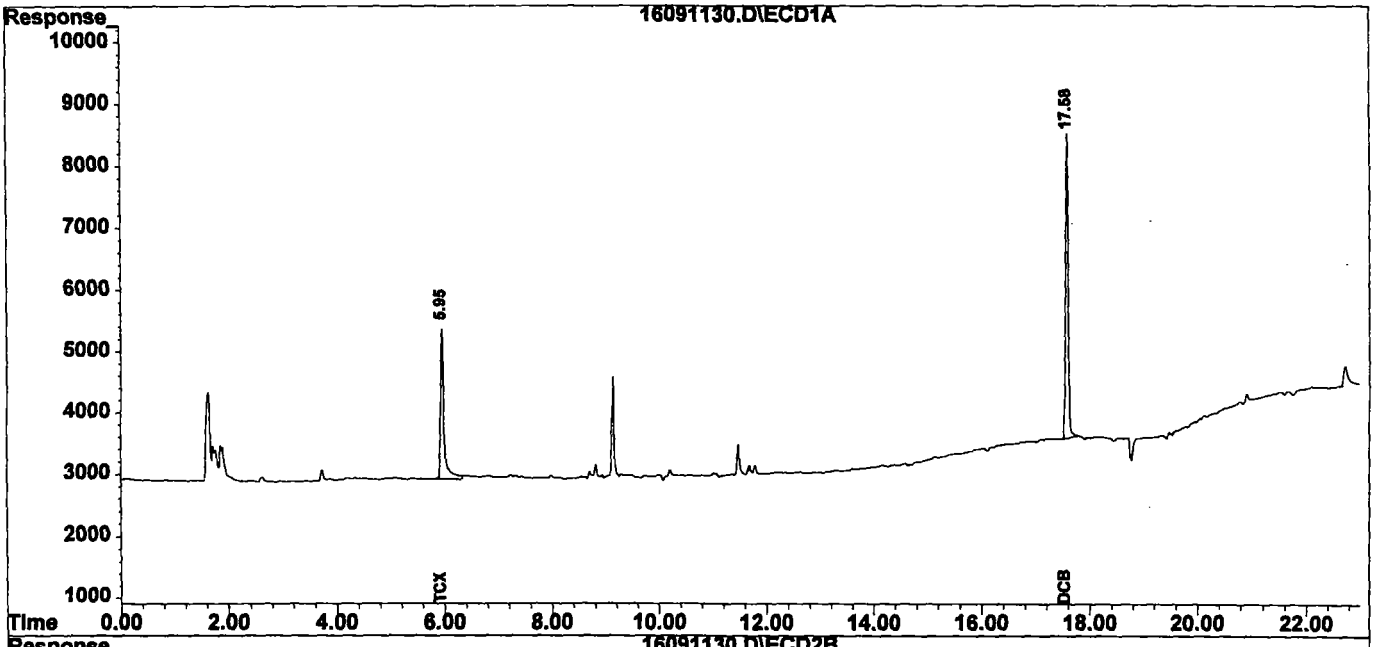
FORM I PCB

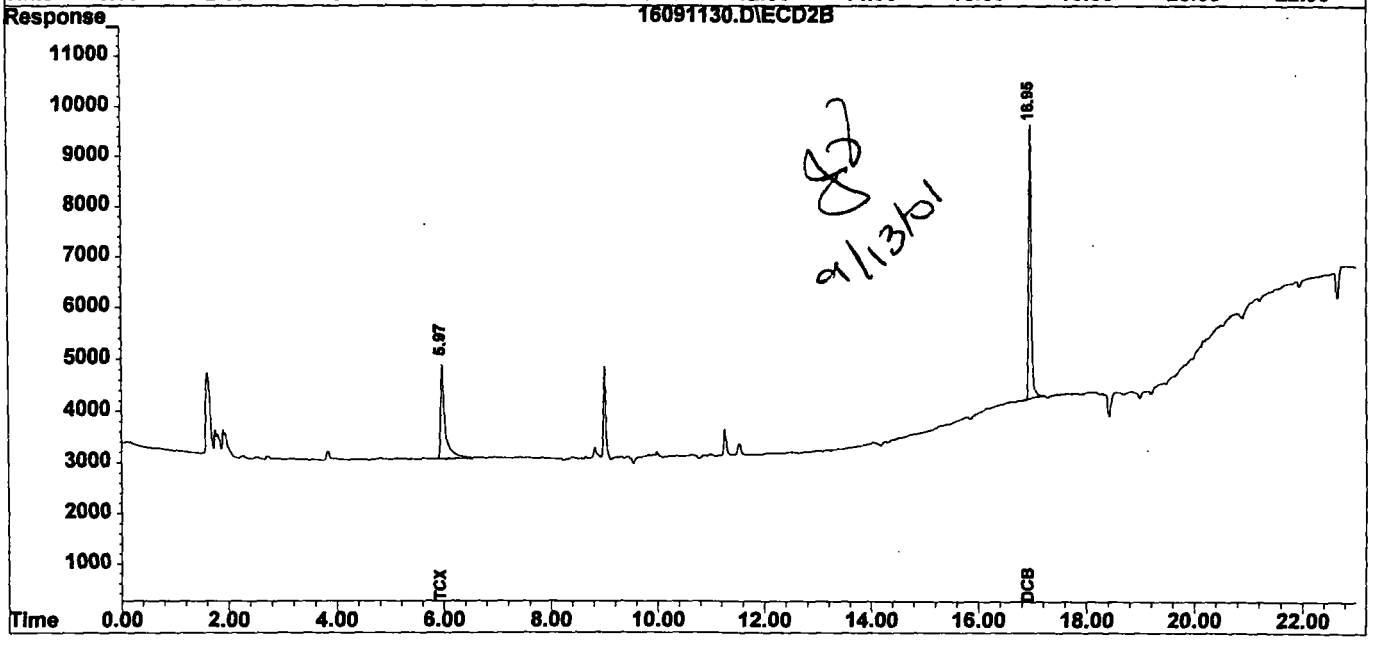
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091130.D\ECD1A.CH Vial: 34
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091130.D\ECD2B.CH
Acq On : 12 Sep 2001 00:44 Operator: DDC
Sample : 47268.03 *E02F7 * Inst : HP_16
Misc : *EPA*30.2G/5.0ML*47 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:47 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091130.D\ECD1A.CH Vial: 34
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091130.D\ECD2B.CH
Acq On : 12 Sep 2001 00:44 Operator: DDC
Sample : 47268.03 *E02F7 * Inst : HP_16
Misc : *EPA*30.2G/5.0ML*47 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:47 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.96	5.97	105260	106956	9.493	8.498
	Spiked Amount 12.495			Recovery	=	75.97%	68.01%
22)	S DCB	17.58	16.95	159096	170977	8.696	9.468
	Spiked Amount 12.495			Recovery	=	69.59%	75.77%

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02F8

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix: (soil/water) SOIL Lab Sample ID: 47268.04

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

% Moisture: 89 decanted: (Y/N) __ Date Received: 08/11/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/12/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	300	U
11104-28-2	Aroclor-1221	300	U
11141-16-5	Aroclor-1232	300	U
53469-21-9	Aroclor-1242	300	U
12672-29-6	Aroclor-1248	300	U
11097-69-1	Aroclor-1254	300	U
11096-82-5	Aroclor-1260	300	U
	Surrogate amount spiked	60.20	

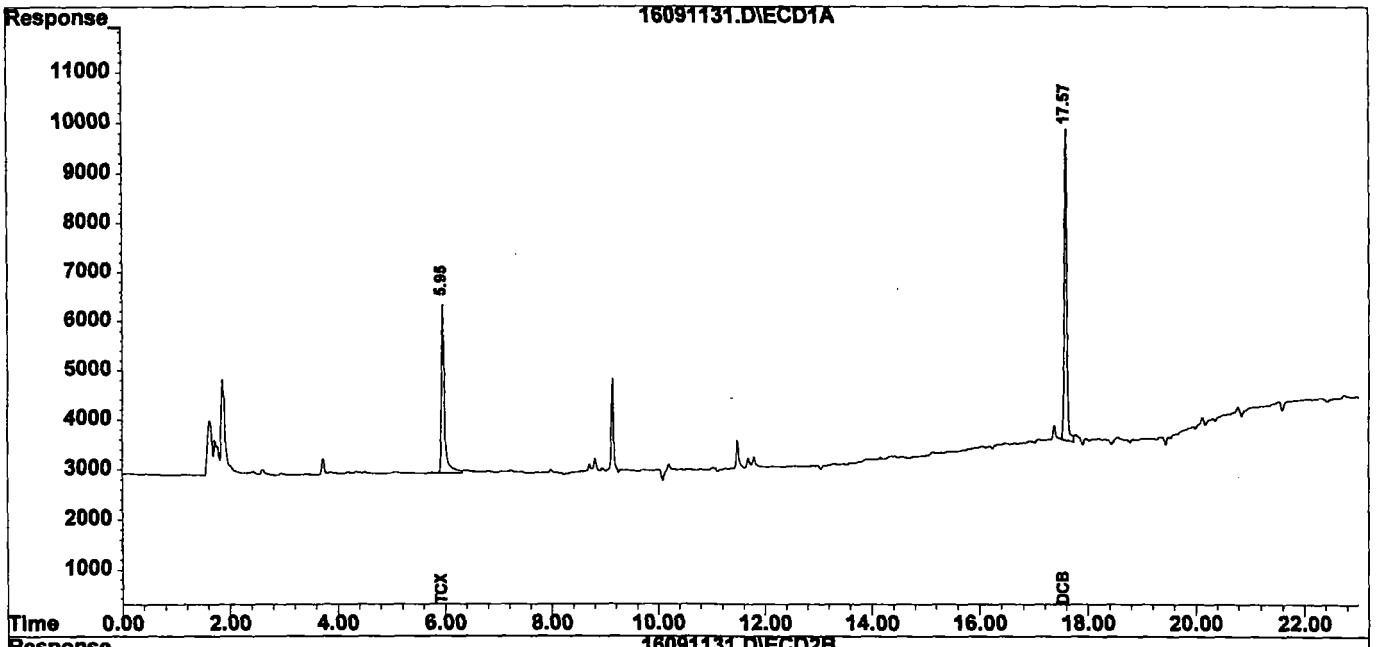
FORM I PCB

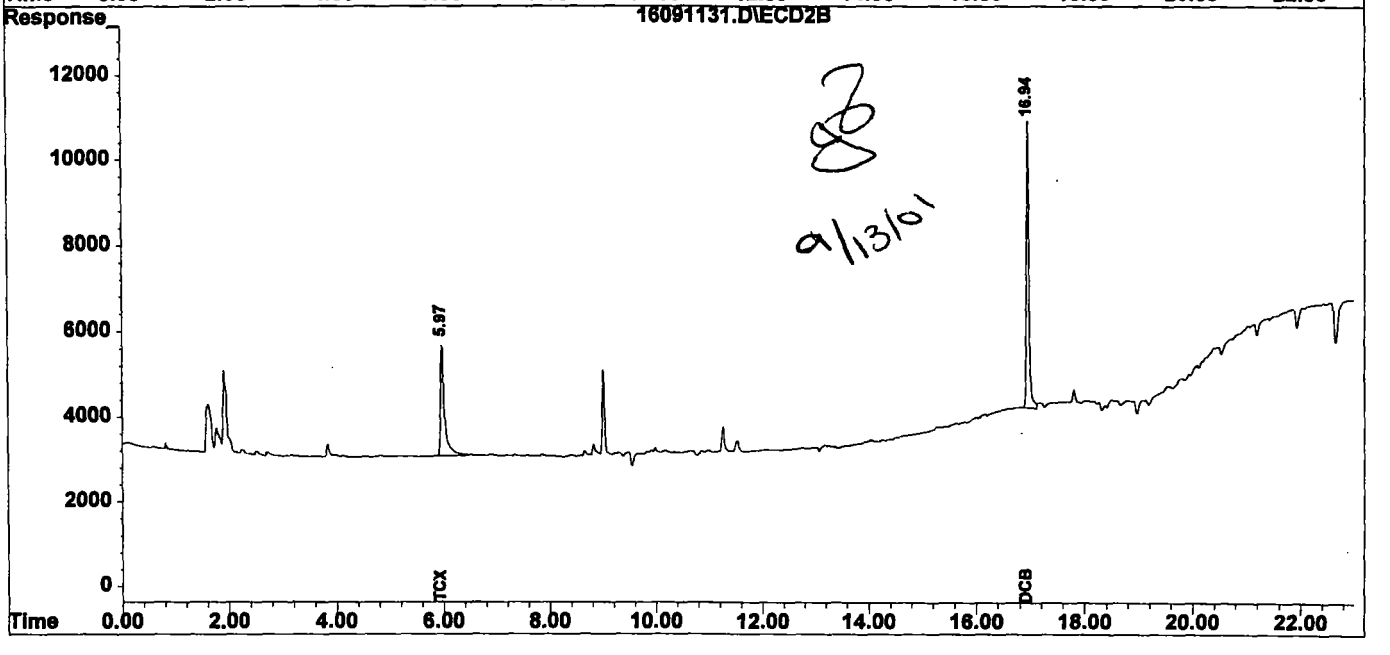
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091131.D\ECD1A.CH Vial: 35
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091131.D\ECD2B.CH
Acq On : 12 Sep 2001 1:11 Operator: DDC
Sample : 47268.04 *E02F8 * Inst : HP_16
Misc : *EPA*30.2G/5.0ML*89 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:02 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9/13/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091131.D\ECD1A.CH Vial: 35
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091131.D\ECD2B.CH
Acq On : 12 Sep 2001 1:11 Operator: DDC
Sample : 47268.04 *E02F8 * Inst : HP_16
Misc : *EPA*30.2G/5.0ML*89 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:02 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.95	5.97	134325	134875	58.4	51.6
	Spiked Amount 60.205			Recovery	=	97.00%	85.71%
22)	S DCB	17.58	16.95	199975	216240	52.7	57.7
	Spiked Amount 60.205			Recovery	=	87.53%	95.84%

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

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02F9

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix: (soil/water) SOIL Lab Sample ID: 47268.05

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

% Moisture: 89 decanted: (Y/N) __ Date Received: 08/11/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/12/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	290	U
11104-28-2	Aroclor-1221	290	U
11141-16-5	Aroclor-1232	290	U
53469-21-9	Aroclor-1242	290	U
12672-29-6	Aroclor-1248	290	U
11097-69-1	Aroclor-1254	290	U
11096-82-5	Aroclor-1260	290	U
	Surrogate amount spiked	58.66	

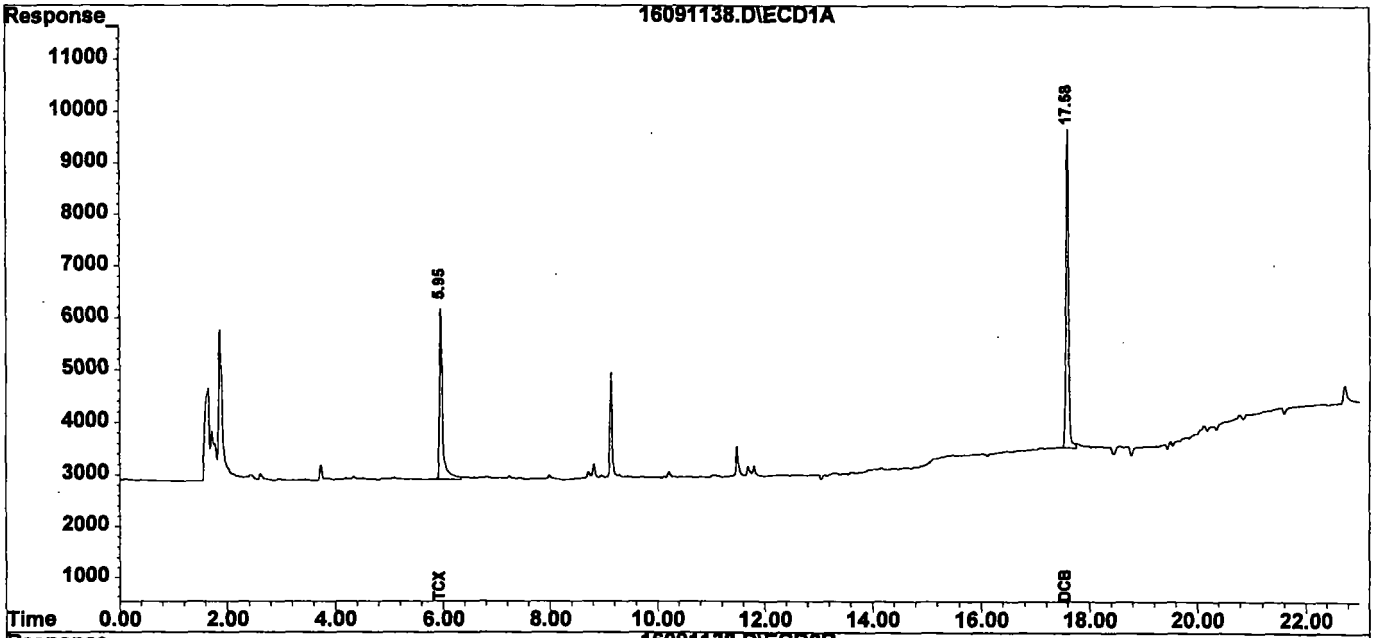
FORM I PCB

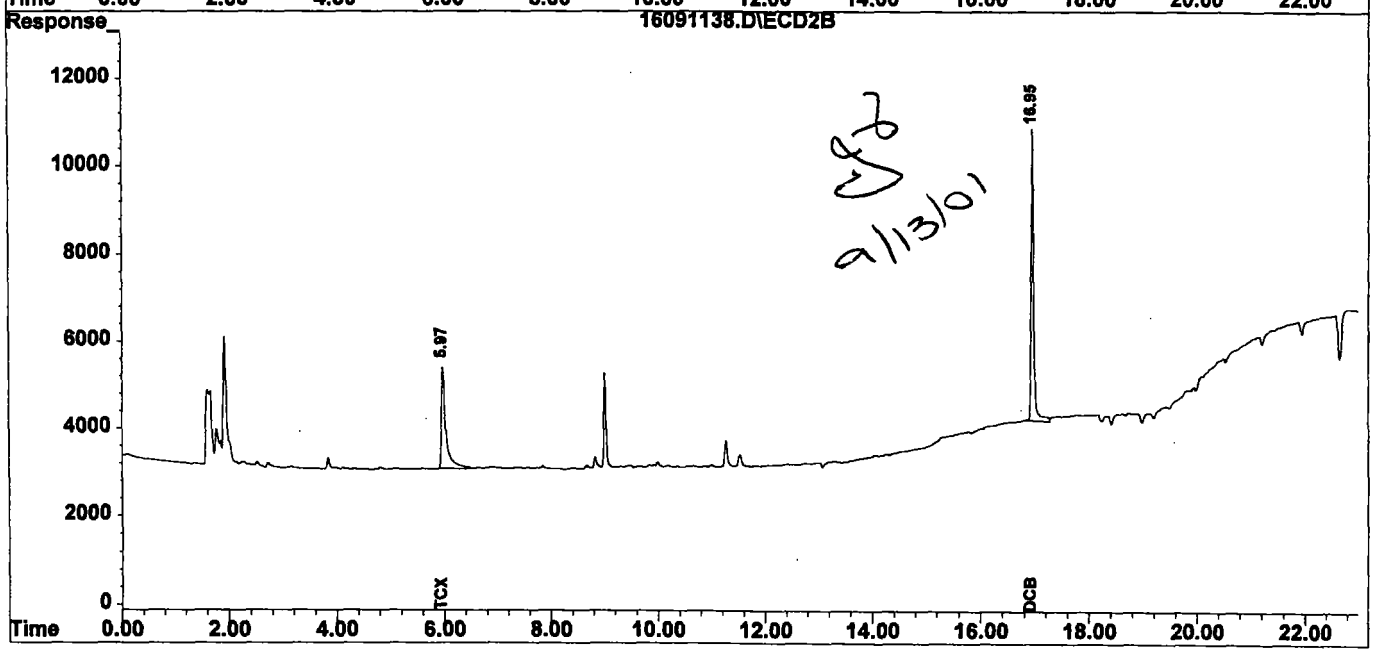
Chromatographic Report

```
Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091138.D\ECD1A.CH Vial: 42
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091138.D\ECD2B.CH
Acq On    : 12 Sep 2001   4:16                        Operator: DDC
Sample    : 47268.05  *E02F9  *                       Inst    : HP_16
Misc      : *EPA*31G/5.0ML*89                         Dilution: 1.00
IntFile Signal #1: events1.e     IntFile Signal #2: events2.e
Quant Time: Sep 12 13:02 2001  Quant Results File: XPCBI11.RES

Method        : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path    : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update   : Wed Sep 05 14:36:59 2001
Response via  : Multiple Level Calibration

Volume Inj.      : 0.5uL
Signal #1 Phase  : RTX-PEST 2        Signal #2 Phase: RTX-PEST
Signal #1 Info   : .32 mm            Signal #2 Info : .32 mm
Signal #1 Inst   : HP_16A            Signal #2 Inst : HP_16B
```





9/13/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091138.D\ECD1A.CH Vial: 42
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091138.D\ECD2B.CH
Acq On : 12 Sep 2001 4:16 Operator: DDC
Sample : 47268.05 *E02F9 * Inst : HP_16
Misc : *EPA*31G/5.0ML*89 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:02 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.95	5.97	128529	133974	54.4	50.0
	Spiked Amount 58.651			Recovery	=	92.75%	85.25%
22)	S DCB	17.58	16.95	195053	224929	50.0	58.5
	Spiked Amount 58.651			Recovery	=	85.25%	99.74%

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02G0

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix: (soil/water) SOIL Lab Sample ID: 47268.06

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

% Moisture: 32 decanted: (Y/N) __ Date Received: 08/11/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/12/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

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	9.71	

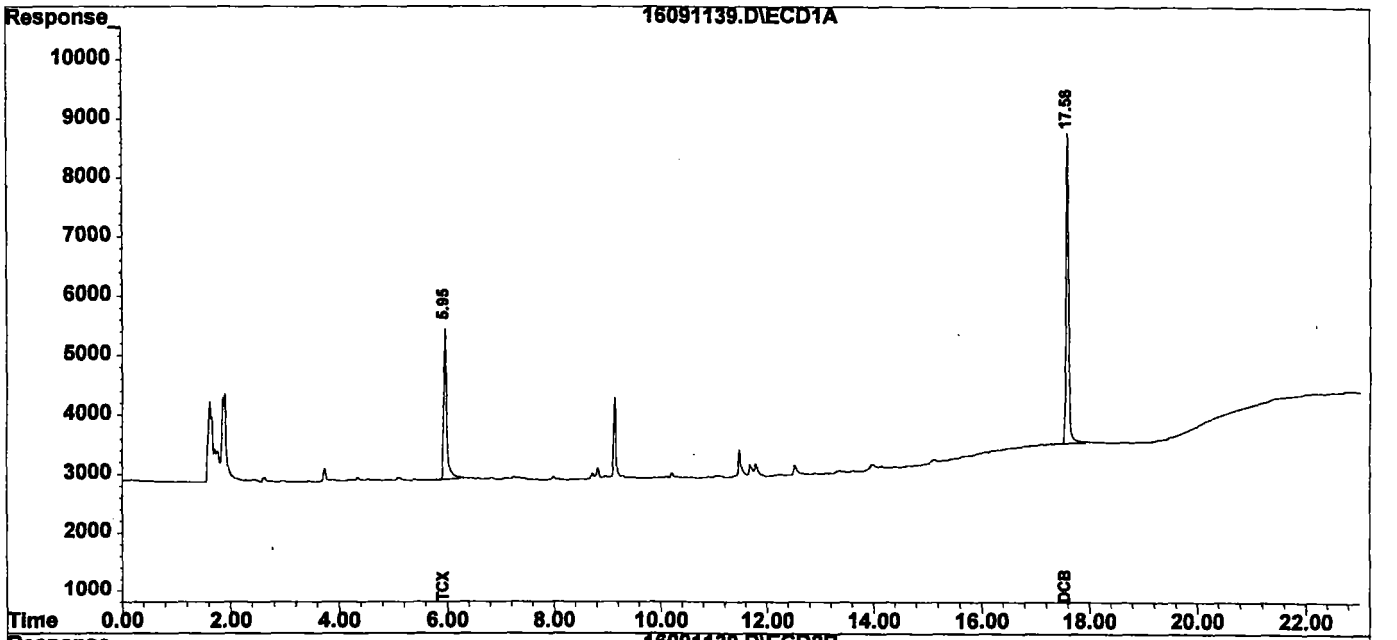
FORM I PCB

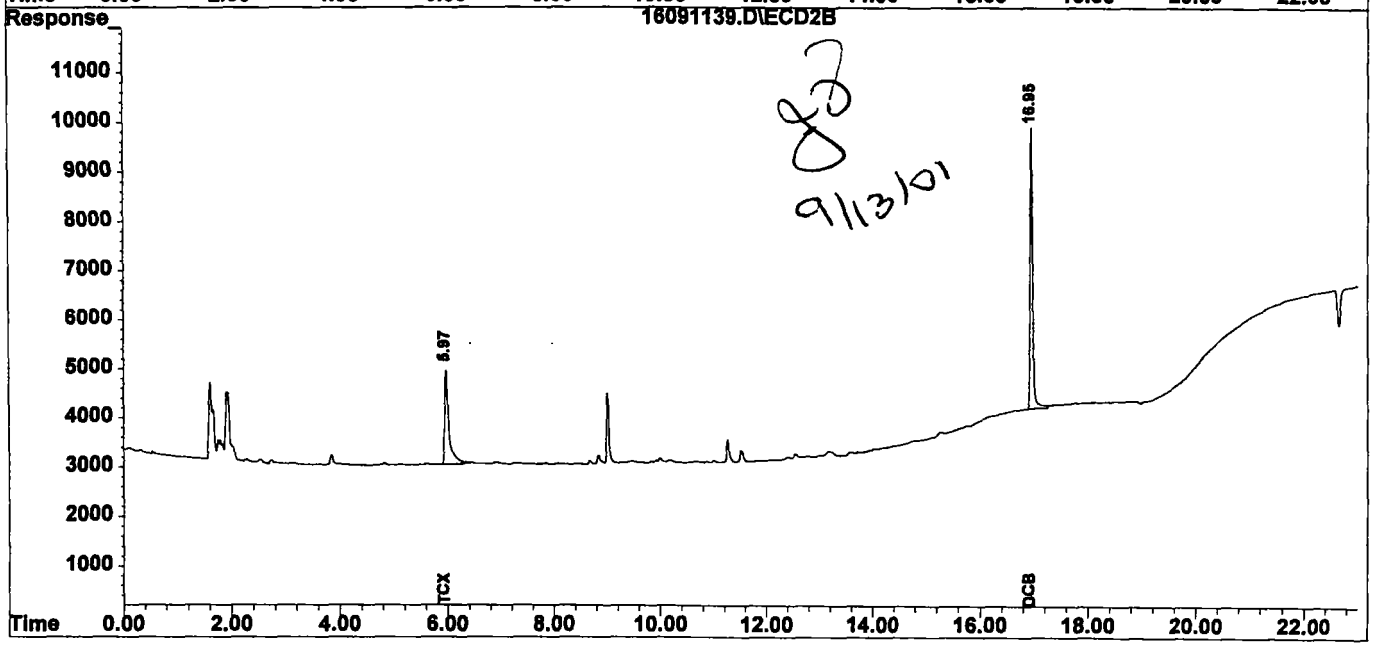
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091139.D\ECD1A.CH Vial: 43
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091139.D\ECD2B.CH
Acq On : 12 Sep 2001 4:42 Operator: DDC
Sample : 47268.06 *E02G0 * Inst : HP_16
Misc : *EPA*30.3G/5.0ML*32 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:02 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





83
9/13/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091139.D\ECD1A.CH Vial: 43
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091139.D\ECD2B.CH
Acq On : 12 Sep 2001 4:42 Operator: DDC
Sample : 47268.06 *E02G0 * Inst : HP_16
Misc : *EPA*30.3G/5.0ML*32 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:02 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.96	5.97	98632	104754	6.910	6.466
	Spiked Amount 9.707			Recovery	=	71.19%	66.61%
22)	S DCB	17.58	16.95	170179	185266	7.226	7.970
	Spiked Amount 9.707			Recovery	=	74.44%	82.11%

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02G1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix: (soil/water) SOIL Lab Sample ID: 47268.07

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

% Moisture: 32 decanted: (Y/N) __ Date Received: 08/11/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/12/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

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	

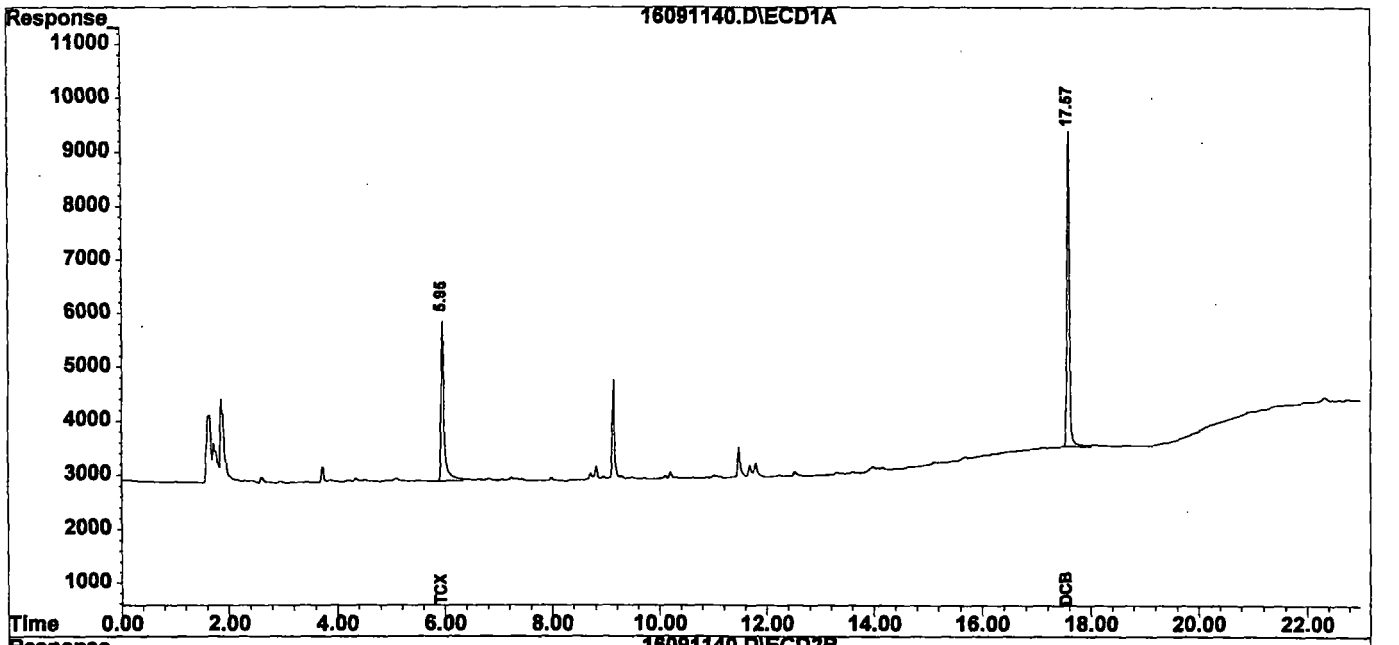
FORM I PCB

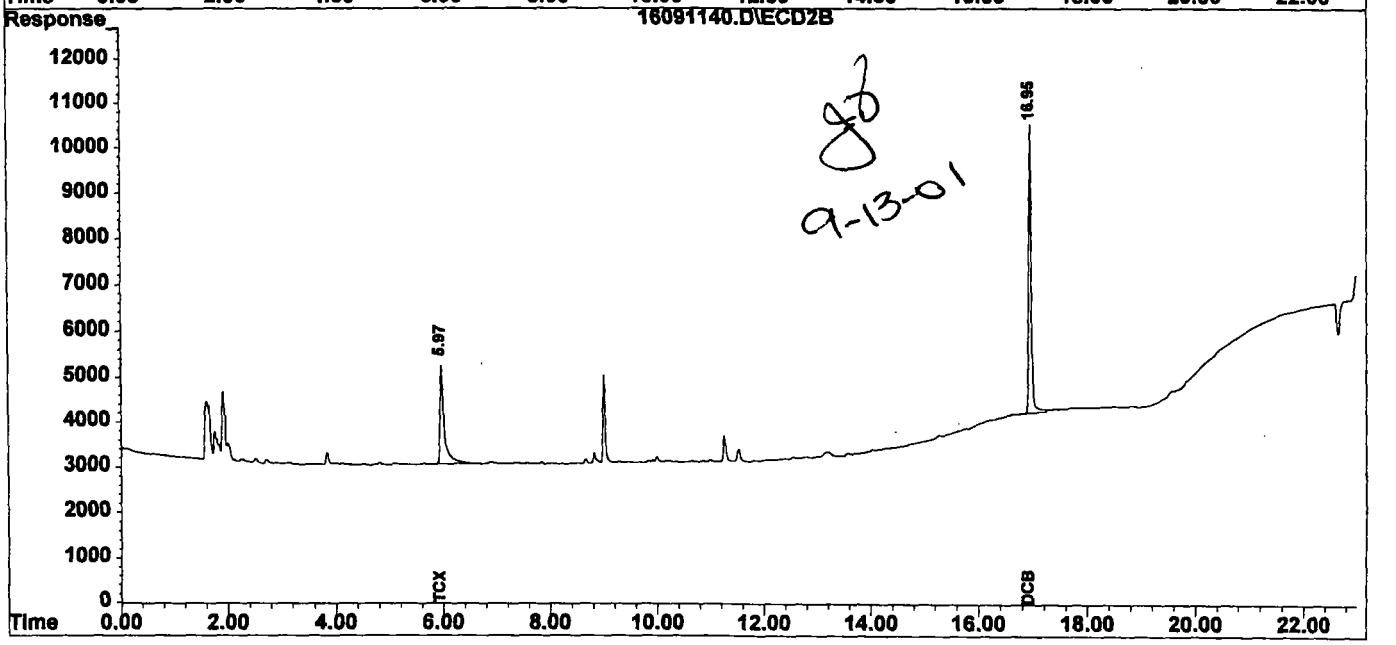
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091140.D\ECD1A.CH Vial: 44
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091140.D\ECD2B.CH
Acq On : 12 Sep 2001 5:08 Operator: DDC
Sample : 47268.07 *E02G1 * Inst : HP_16
Misc : *EPA*30.2G/5.0ML*32 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:03 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9-13-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091140.D\ECD1A.CH Vial: 44
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091140.D\ECD2B.CH
Acq On : 12 Sep 2001 5:08 Operator: DDC
Sample : 47268.07 *E02G1 * Inst : HP_16
Misc : *EPA*30.2G/5.0ML*32 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:03 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.95	5.97	116974	122767	8.222	7.603
	Spiked Amount 9.739			Recovery	=	84.42%	78.07%
22)	S DCB	17.58	16.95	189499	206931	8.073	8.931
	Spiked Amount 9.739			Recovery	=	82.89%	91.70%

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02G2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix: (soil/water) SOIL Lab Sample ID: 47268.08

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

% Moisture: 60 decanted: (Y/N) __ Date Received: 08/11/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/12/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	82	U
11104-28-2	Aroclor-1221	82	U
11141-16-5	Aroclor-1232	82	U
53469-21-9	Aroclor-1242	82	U
12672-29-6	Aroclor-1248	82	U
11097-69-1	Aroclor-1254	82	U
11096-82-5	Aroclor-1260	82	U
	Surrogate amount spiked	16.56	

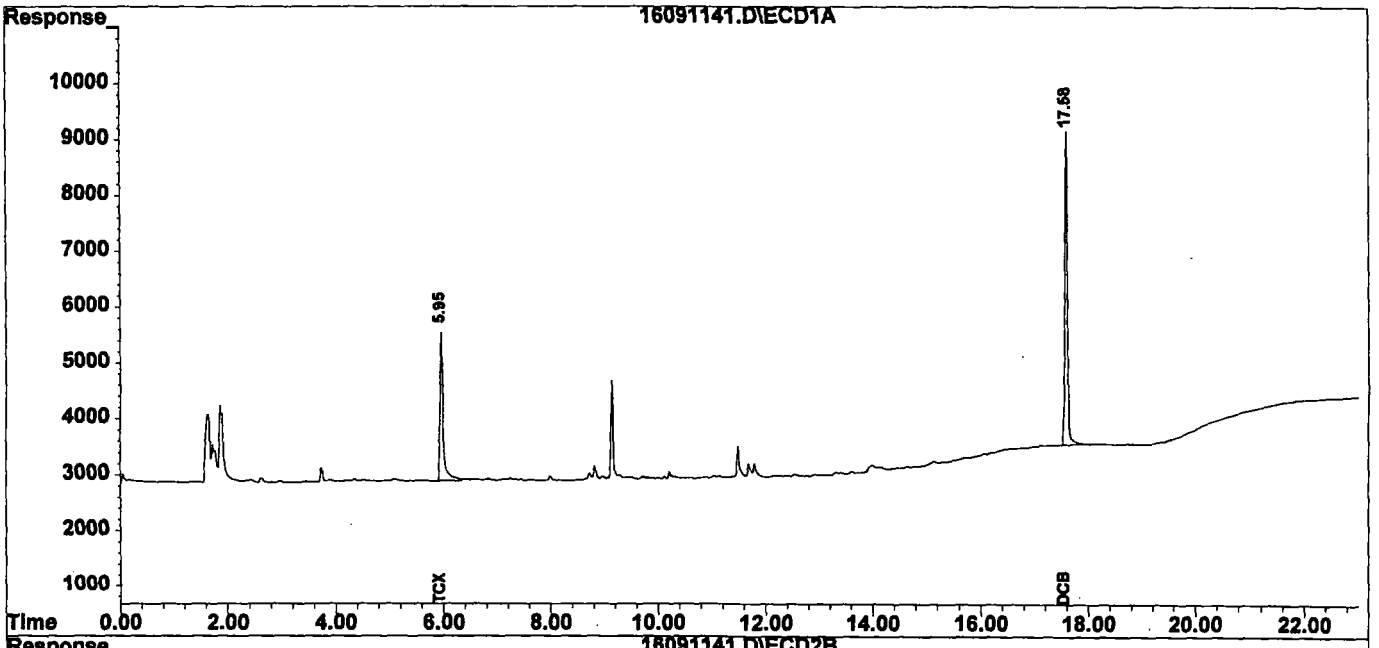
FORM I PCB

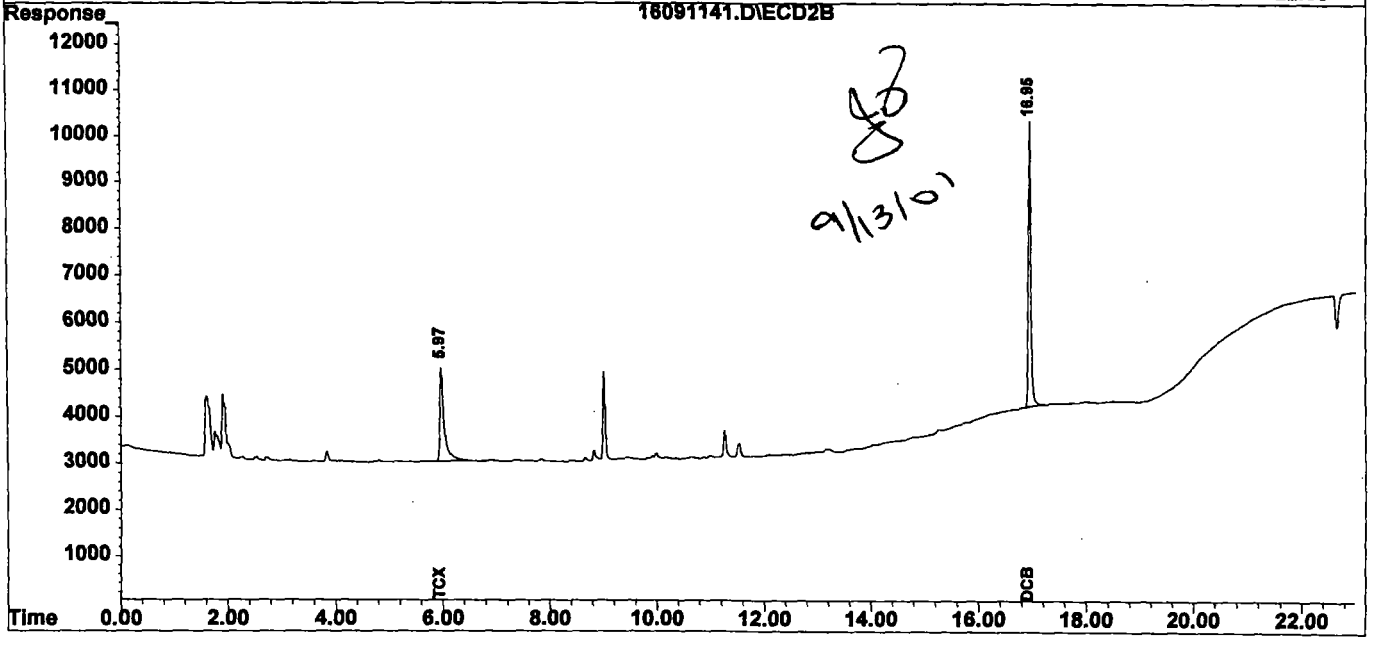
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091141.D\ECD1A.CH Vial: 45
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091141.D\ECD2B.CH
Acq On : 12 Sep 2001 5:35 Operator: DDC
Sample : 47268.08 *E02G2 * Inst : HP_16
Misc : *EPA*30.2G/5.0ML*60 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:03 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9/13/01

Quantitation Report

```
Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091141.D\ECD1A.CH Vial: 45
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091141.D\ECD2B.CH
Acq On    : 12 Sep 2001   5:35                        Operator: DDC
Sample    : 47268.08  *E02G2  *                       Inst    : HP_16
Misc      : *EPA*30.2G/5.0ML*60                       Dilution: 1.00
IntFile Signal #1: events1.e     IntFile Signal #2: events2.e
Quant Time: Sep 12 13:03 2001  Quant Results File: XPCBI11.RES

Method       : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path   : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update  : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj.     : 0.5uL
Signal #1 Phase : RTX-PEST 2        Signal #2 Phase: RTX-PEST
Signal #1 Info  : .32 mm            Signal #2 Info : .32 mm
Signal #1 Inst  : HP_16A            Signal #2 Inst : HP_16B
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.96	5.97	107255	108305	12.8	11.4
	Spiked Amount 16.556			Recovery	=	77.31%	68.86%
22)	S DCB	17.58	16.95	183886	194282	13.3	14.3
	Spiked Amount 16.556			Recovery	=	80.33%	86.37%

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02G3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix: (soil/water) SOIL Lab Sample ID: 47268.09

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

% Moisture: 85 decanted: (Y/N) __ Date Received: 08/11/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/12/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	220	U
11104-28-2	Aroclor-1221	220	U
11141-16-5	Aroclor-1232	220	U
53469-21-9	Aroclor-1242	50	JP
12672-29-6	Aroclor-1248	220	U
11097-69-1	Aroclor-1254	19	JP
11096-82-5	Aroclor-1260	17	J
Surrogate amount spiked		44.16	

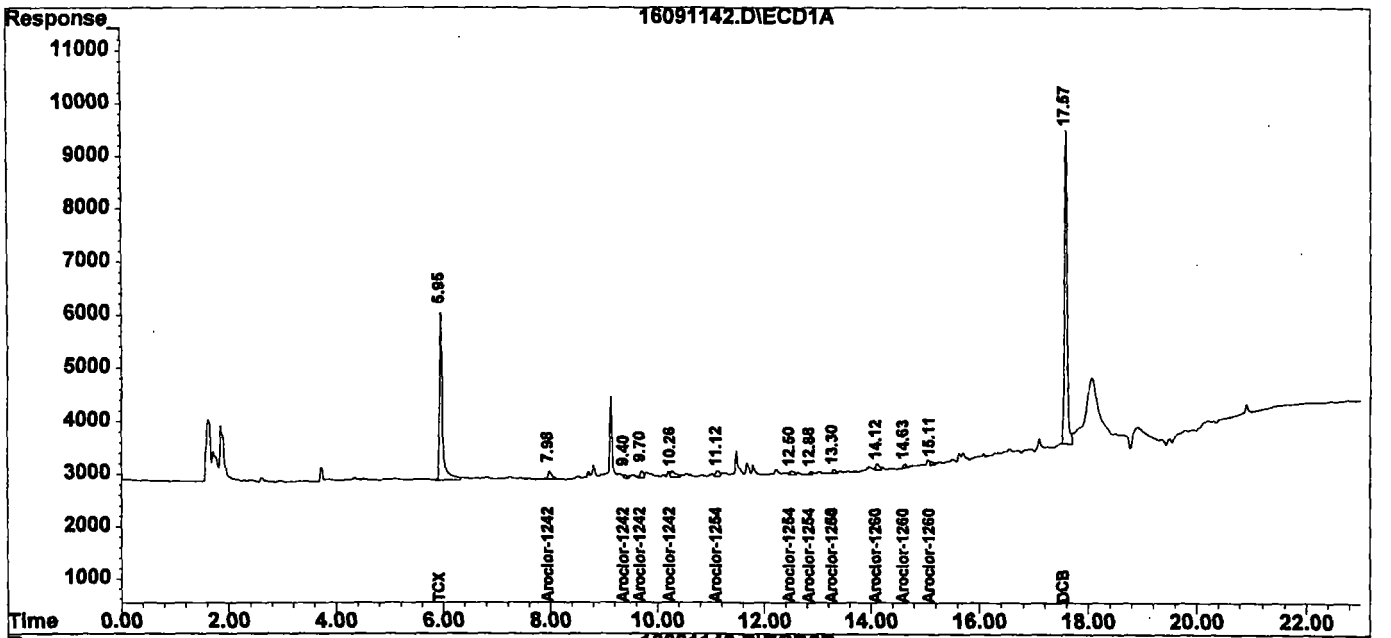
FORM I PCB

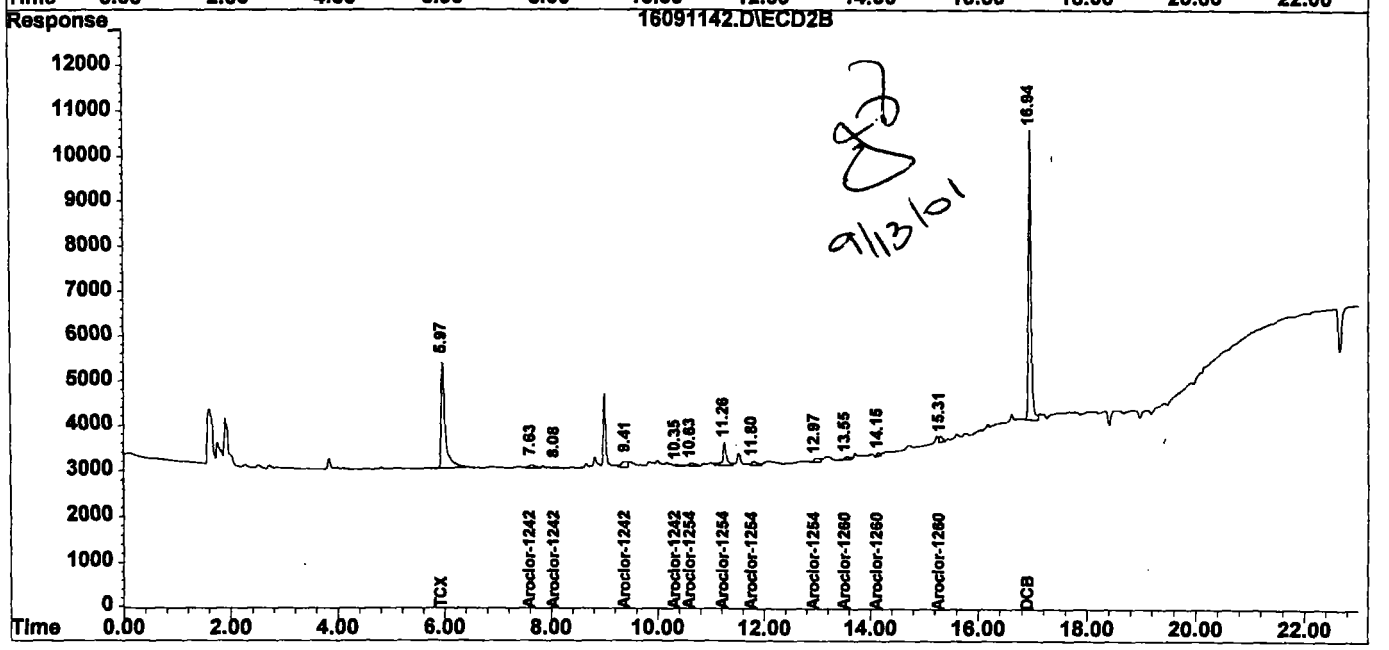
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091142.D\ECD1A.CH Vial: 46
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091142.D\ECD2B.CH
Acq On : 12 Sep 2001 6:01 Operator: DDC
Sample : 47268.09 *E02G3 * Inst : HP_16
Misc : *EPA*30.2G/5.0ML*85 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:05 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9/13/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091142.D\ECD1A.CH Vial: 46
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091142.D\ECD2B.CH
Acq On : 12 Sep 2001 6:01 Operator: DDC
Sample : 47268.09 *E02G3 * Inst : HP_16
Misc : *EPA*30.2G/5.0ML*85 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:05 2001 Quant Results File: XPCBI11.RES

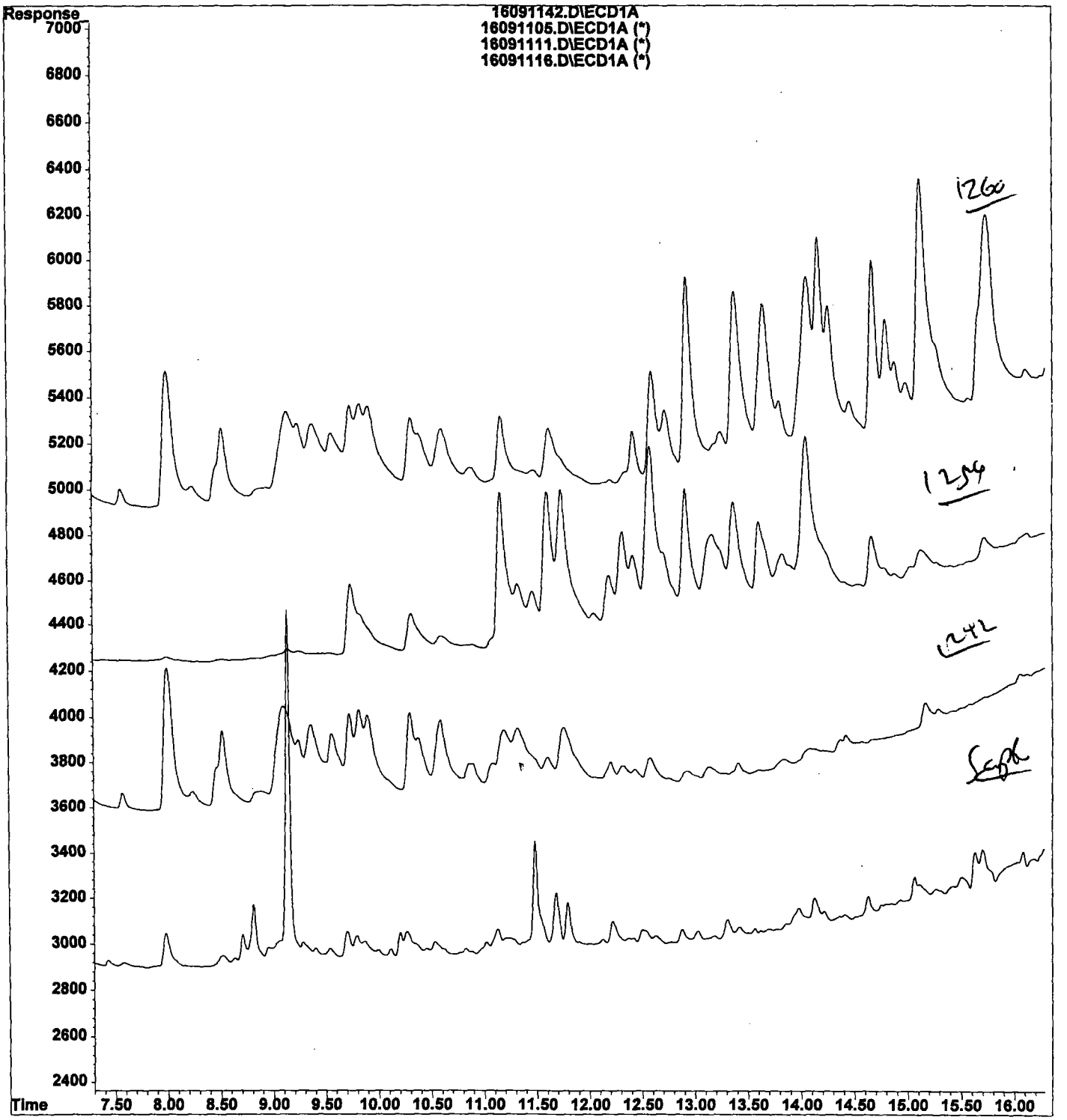
Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.95	5.97	124410	122658	39.6	34.4	
	Spiked Amount 44.150			Recovery	=	89.69%	77.92%	
22)	S DCB	17.58	16.95	188918	206553	36.5	40.4	
	Spiked Amount 44.150			Recovery	=	82.67%	91.51%	
	Target Compounds:							
7)	L4 Aroclor-1242	0.00	7.64	0	5825	N.D. d	34.7	#
8)	L4 Aroclor-1242 {2}	7.98	8.08	8194	947	54.1	8.203	#
9)	L4 Aroclor-1242 {3}	9.40f	0.00	2620	0	19.7	N.D. d	#
10)	L4 Aroclor-1242 {4}	9.70	9.42	5325	9951	76.7	115.5	#
11)	L4 Aroclor-1242 {5}	10.27	10.35	7588	1847	103.0	39.7	#
	Sum Aroclor-1242			23727	18569	253.5	198.2	
	Average Aroclor-1242					63.372	49.539	
12)	L6 Aroclor-1254	11.13	10.64	5088	5316	27.7	37.5	#
13)	L6 Aroclor-1254 {2}	0.00	11.26f	0	24471	N.D.	144.0	#
14)	L6 Aroclor-1254 {3}	12.51f	11.80	3922	6756	15.1	57.6	#
15)	L6 Aroclor-1254 {4}	12.88	0.00	2159	0	14.4	N.D.	#
16)	L6 Aroclor-1254 {5}	13.31f	12.97	3046	6162	18.9	24.8	#
	Sum Aroclor-1254			14215	42705	76.1	264.0	
	Average Aroclor-1254					19.034	65.998	
17)	L7 Aroclor-1260	13.31f	0.00	3046	0	12.1	N.D.	#
18)	L7 Aroclor-1260 {2}	0.00	13.55	0	3989	N.D. d	13.7	#
19)	L7 Aroclor-1260 {3}	14.12	14.16	5271	2796	28.5	17.7	#
20)	L7 Aroclor-1260 {4}	14.63f	0.00	3074	0	19.0	N.D. d	#
21)	L7 Aroclor-1260 {5}	15.11	15.31	3305	6143	8.771	31.4	#
	Sum Aroclor-1260			14696	12928	150.8	138.5	
	Average Aroclor-1260					17.077	20.916	

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

File : F:\HPCHEM\HP\16\DATA\09_11_01\16091142.D
Operator : DDC
Acquired : 12 Sep 2001 6:01 using AcqMethod OLM03.M
Instrument : HP_16
Sample Name: 47268.09
Misc Info :
Vial Number: 46



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02G4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix: (soil/water) SOIL Lab Sample ID: 47268.10

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

% Moisture: 82 decanted: (Y/N) __ Date Received: 08/11/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/12/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	180	U
11104-28-2	Aroclor-1221	180	U
11141-16-5	Aroclor-1232	180	U
53469-21-9	Aroclor-1242	180	U
12672-29-6	Aroclor-1248	180	U
11097-69-1	Aroclor-1254	180	U
11096-82-5	Aroclor-1260	180	U
Surrogate amount spiked		36.68	

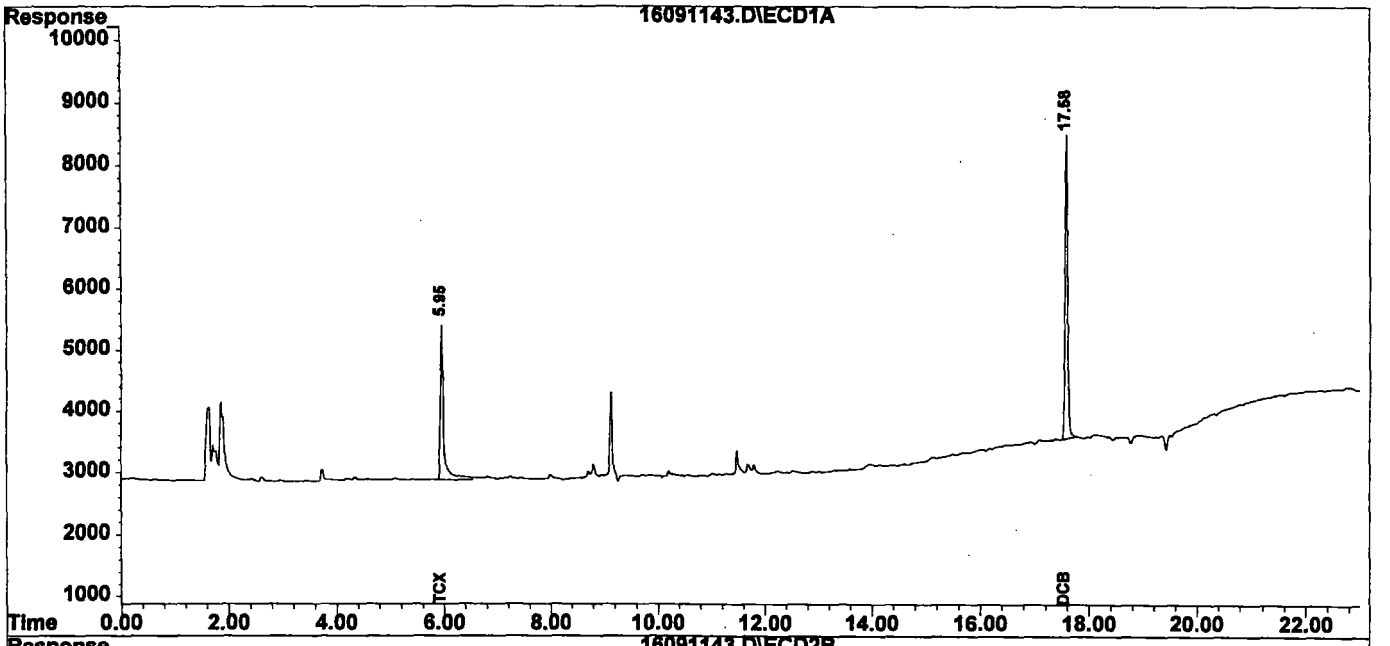
FORM I PCB

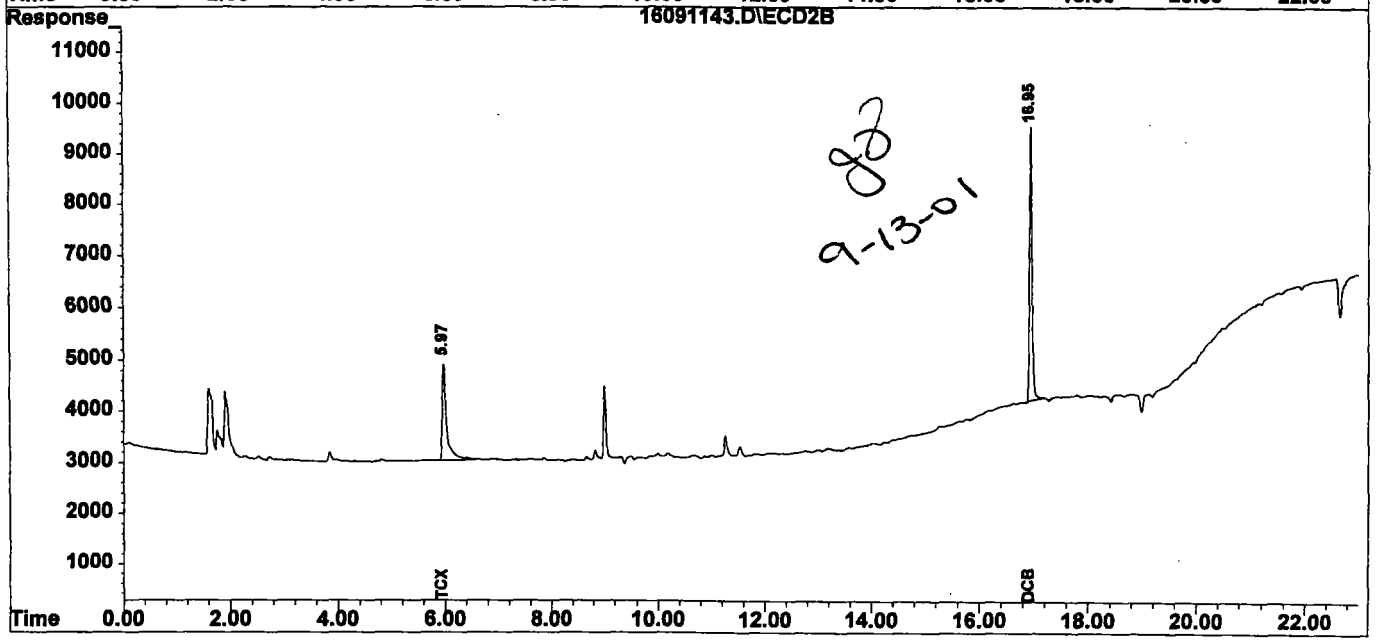
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091143.D\ECD1A.CH Vial: 47
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091143.D\ECD2B.CH
Acq On : 12 Sep 2001 6:28 Operator: DDC
Sample : 47268.10 *E02G4 * Inst : HP_16
Misc : *EPA*30.3G/5.0ML*82 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:49 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





8
9-13-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091143.D\ECD1A.CH Vial: 47
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091143.D\ECD2B.CH
Acq On : 12 Sep 2001 6:28 Operator: DDC
Sample : 47268.10 *E02G4 * Inst : HP_16
Misc : *EPA*30.3G/5.0ML*82 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:49 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.96	5.97	112739	109516	29.8	25.5
	Spiked Amount 36.670			Recovery	=	81.26%	69.54%
22)	S DCB	17.58	16.95	156327	168327	25.1	27.4
	Spiked Amount 36.670			Recovery	=	68.45%	74.72%

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02G5

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix: (soil/water) SOIL Lab Sample ID: 47268.11

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

% Moisture: 88 decanted: (Y/N) __ Date Received: 08/11/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/12/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	270	U
11104-28-2	Aroclor-1221	270	U
11141-16-5	Aroclor-1232	270	U
53469-21-9	Aroclor-1242	270	U
12672-29-6	Aroclor-1248	270	U
11097-69-1	Aroclor-1254	270	U
11096-82-5	Aroclor-1260	270	U
	Surrogate amount spiked	55.00	

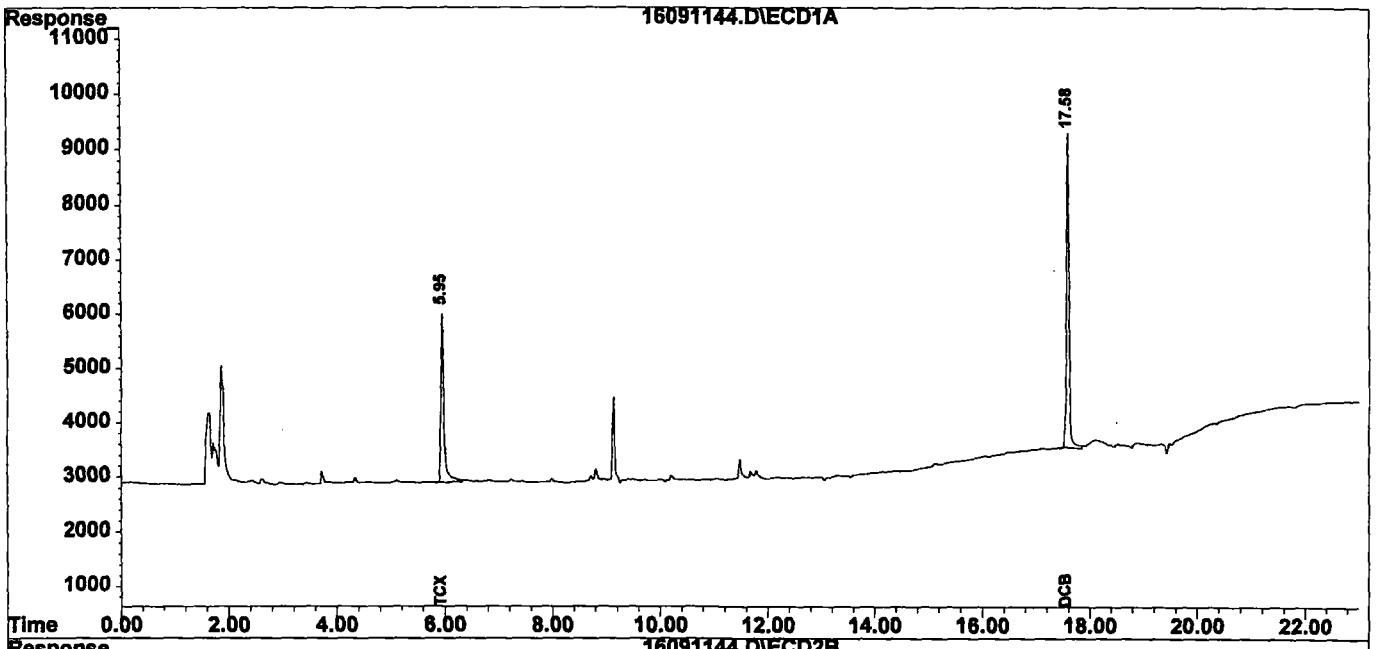
FORM I PCB

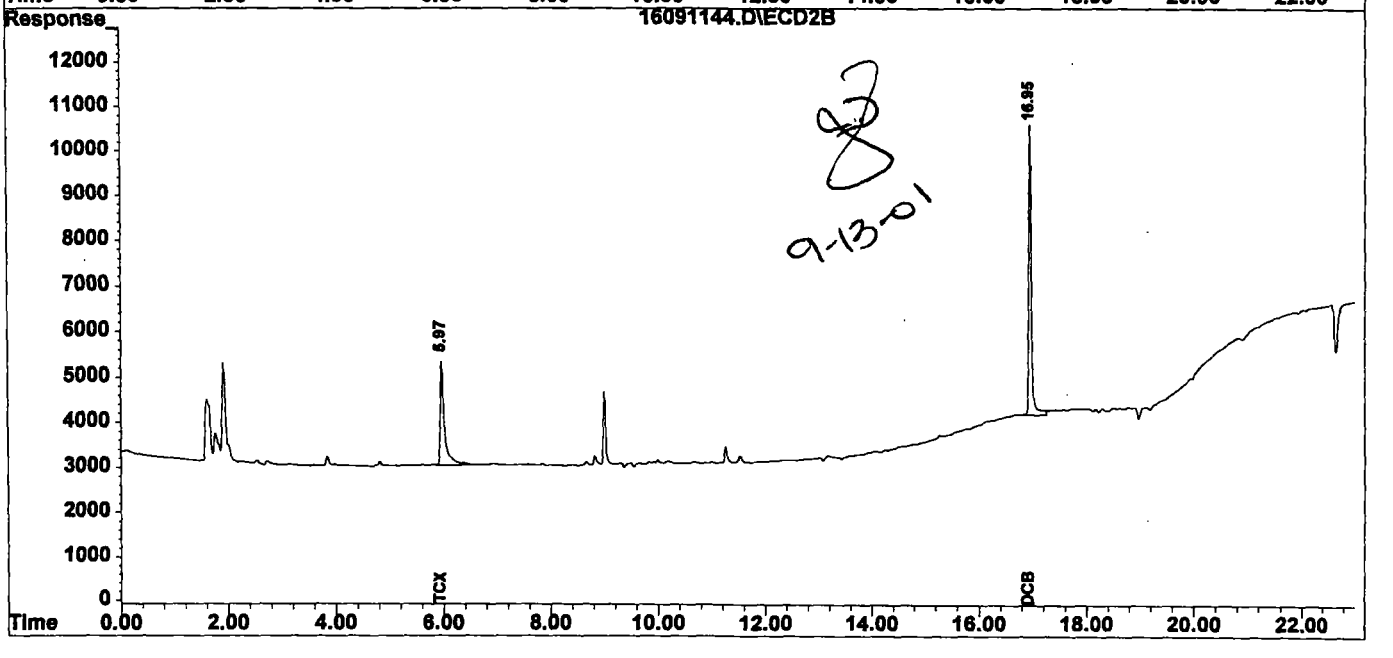
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091144.D\ECD1A.CH Vial: 48
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091144.D\ECD2B.CH
Acq On : 12 Sep 2001 6:54 Operator: DDC
Sample : 47268.11 *E02G5 * Inst : HP_16
Misc : *EPA*30.3G/5.0ML*88 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:06 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9-13-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091144.D\ECD1A.CH Vial: 48
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091144.D\ECD2B.CH
Acq On : 12 Sep 2001 6:54 Operator: DDC
Sample : 47268.11 *E02G5 * Inst : HP_16
Misc : *EPA*30.3G/5.0ML*88 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:06 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.96	5.97	120618	126836	47.9	44.4
	Spiked Amount 55.006			Recovery	=	87.08%	80.72%
22)	S DCB	17.58	16.95	190779	216975	45.9	52.9
	Spiked Amount 55.006			Recovery	=	83.45%	96.17%

Target Compounds:

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
16091144.D XPCBI11.M Wed Sep 12 13:33:12 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02G6

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix: (soil/water) SOIL Lab Sample ID: 47268.12

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

% Moisture: 90 decanted: (Y/N) __ Date Received: 08/11/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/12/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	330	U
11104-28-2	Aroclor-1221	330	U
11141-16-5	Aroclor-1232	330	U
53469-21-9	Aroclor-1242	330	U
12672-29-6	Aroclor-1248	330	U
11097-69-1	Aroclor-1254	330	U
11096-82-5	Aroclor-1260	330	U
	Surrogate amount spiked	66.44	

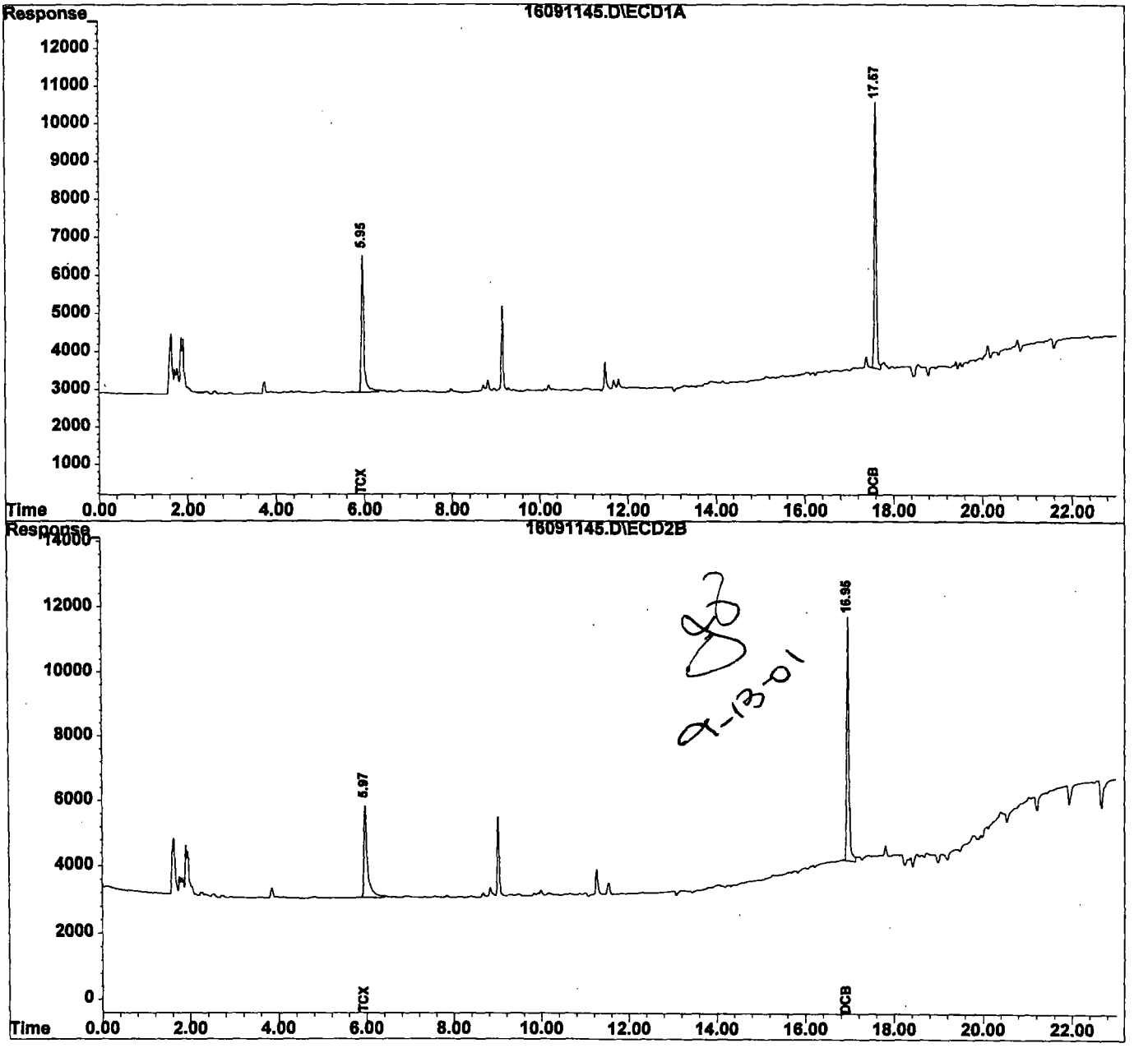
FORM I PCB

Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091145.D\ECD1A.CH Vial: 49
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091145.D\ECD2B.CH
Acq On : 12 Sep 2001 7:21 Operator: DDC
Sample : 47268.12 *E02G6 * Inst : HP_16
Misc : *EPA*30.1G/5.0ML*90 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:06 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B



9-13-01

Quantitation Report

```
Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091145.D\ECD1A.CH Vial: 49
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091145.D\ECD2B.CH
Acq On    : 12 Sep 2001   7:21                        Operator: DDC
Sample    : 47268.12  *E02G6  *                       Inst    : HP_16
Misc      : *EPA*30.1G/5.0ML*90                       Dilution: 1.00
IntFile Signal #1: events1.e     IntFile Signal #2: events2.e
Quant Time: Sep 12 13:06 2001  Quant Results File: XPCBI11.RES

Method       : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path   : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update  : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj.      : 0.5uL
Signal #1 Phase : RTX-PEST 2        Signal #2 Phase: RTX-PEST
Signal #1 Info  : .32 mm            Signal #2 Info : .32 mm
Signal #1 Inst  : HP_16A            Signal #2 Inst : HP_16B
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.96	5.97	145656	149926	69.9	63.3
	Spiked Amount 66.445			Recovery	=	105.20%	95.27%
22)	S DCB	17.58	16.95	218850	242252	63.6	71.3
	Spiked Amount 66.445			Recovery	=	95.72%	107.31%
	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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02G7

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix: (soil/water) SOIL Lab Sample ID: 47279.01

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

% Moisture: 68 decanted: (Y/N) __ Date Received: 08/15/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/12/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	100	U
11104-28-2	Aroclor-1221	100	U
11141-16-5	Aroclor-1232	100	U
53469-21-9	Aroclor-1242	100	U
12672-29-6	Aroclor-1248	100	U
11097-69-1	Aroclor-1254	100	U
11096-82-5	Aroclor-1260	100	U
	Surrogate amount spiked	20.56	

TBS
10-12-01

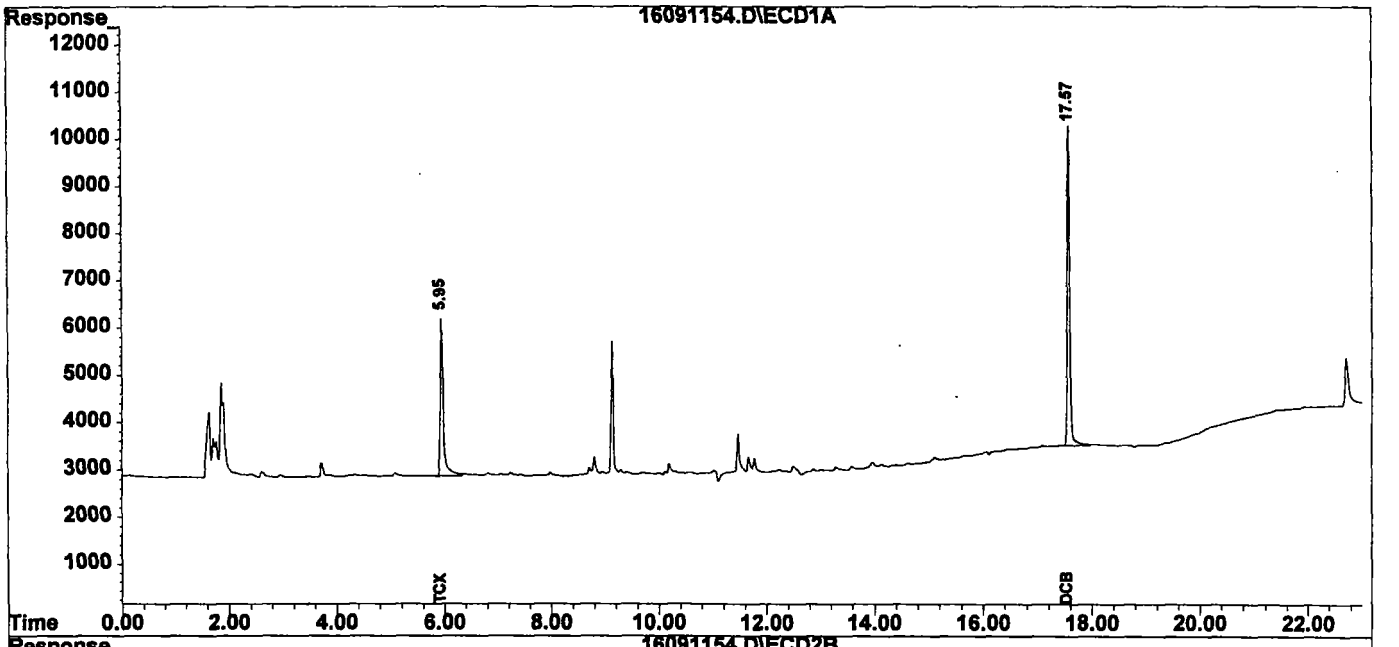
FORM I PCB

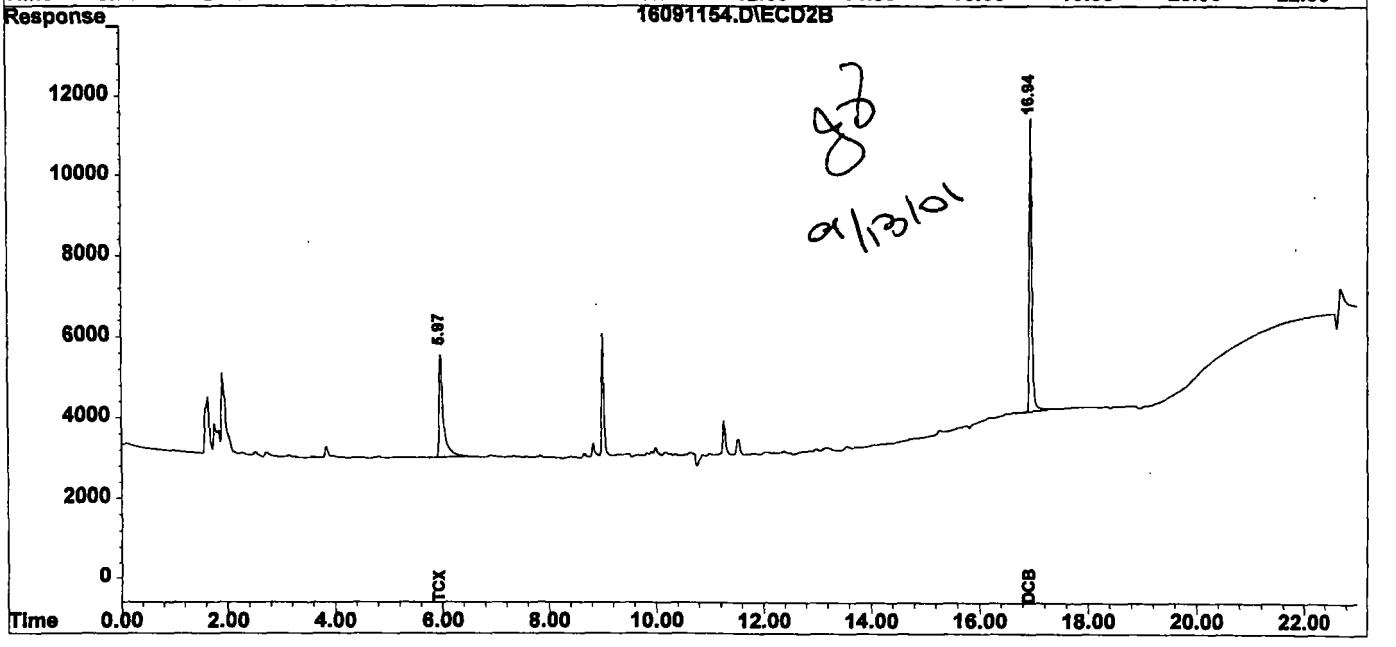
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091154.D\ECD1A.CH Vial: 58
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091154.D\ECD2B.CH
Acq On : 12 Sep 2001 11:19 Operator: DDC
Sample : 47279.01 *E02G7 * Inst : HP_16
Misc : *EPA*30.4G/5.0ML*68 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:23 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





8
9/13/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091154.D\ECD1A.CH Vial: 58
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091154.D\ECD2B.CH
Acq On : 12 Sep 2001 11:19 Operator: DDC
Sample : 47279.01 *E02G7 * Inst : HP_16
Misc : *EPA*30.4G/5.0ML*68 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:23 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.95	5.97	136044	137209	20.2	17.9
	Spiked Amount 20.559			Recovery	=	98.25%	87.07%
22)	S DCB	17.57	16.95	219728	237449	19.8	21.6
	Spiked Amount 20.559			Recovery	=	96.31%	105.06%

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02G8

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix: (soil/water) SOIL Lab Sample ID: 47279.02

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

% Moisture: 51 decanted: (Y/N) __ Date Received: 08/15/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/12/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	66	UJ
11104-28-2	Aroclor-1221	66	U
11141-16-5	Aroclor-1232	66	U
53469-21-9	Aroclor-1242	66	U
12672-29-6	Aroclor-1248	66	U
11097-69-1	Aroclor-1254	66	U
11096-82-5	Aroclor-1260	66	U
	Surrogate amount spiked	13.42	

TBS
10-12-01

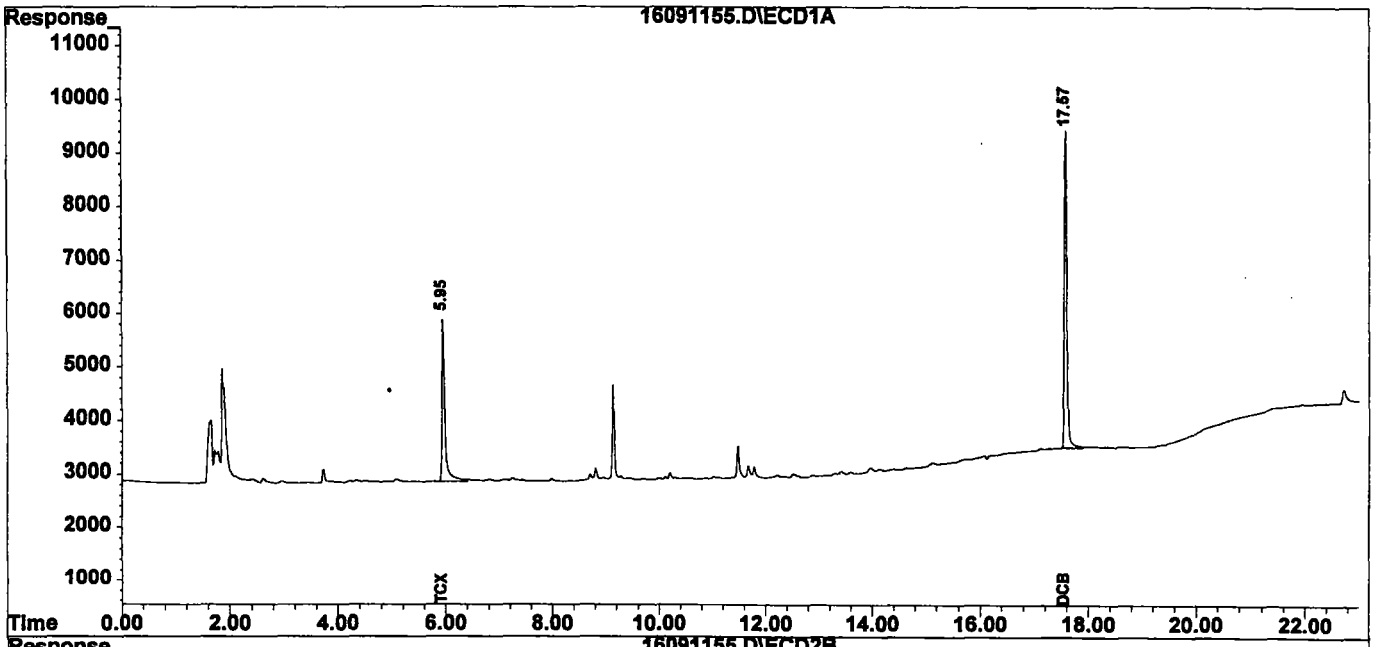
FORM I PCB

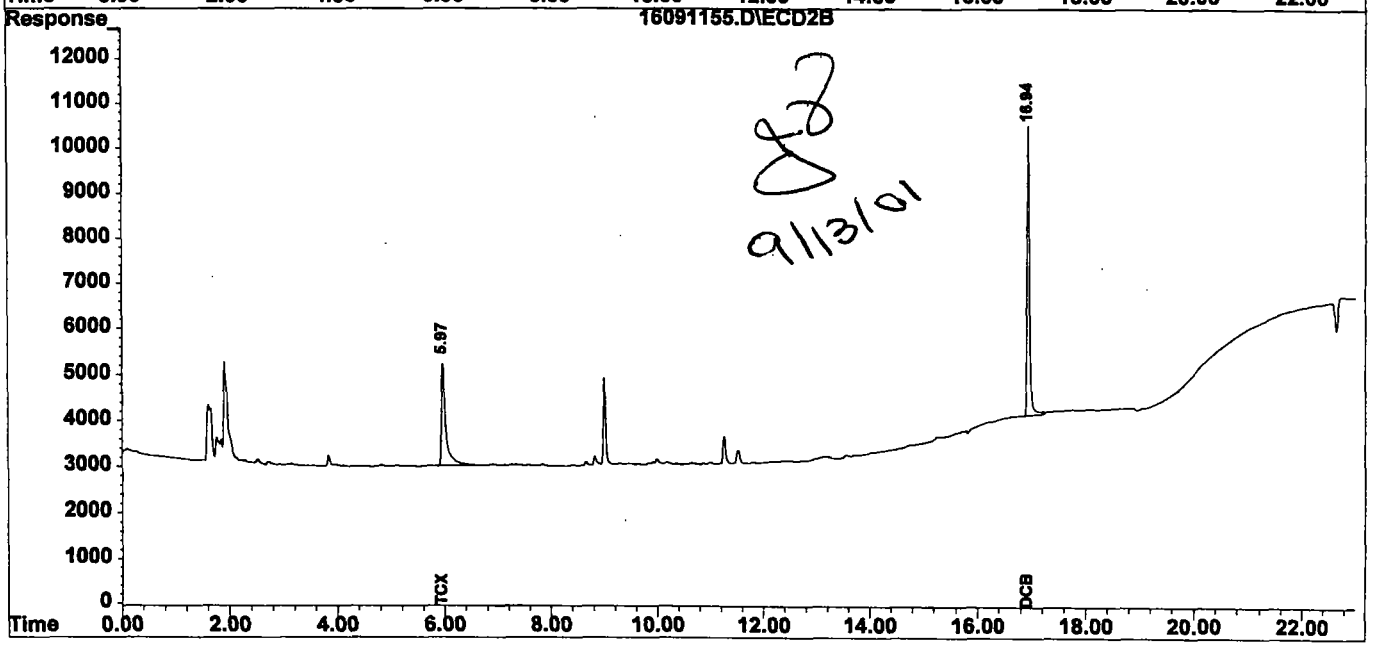
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091155.D\ECD1A.CH Vial: 59
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091155.D\ECD2B.CH
Acq On : 12 Sep 2001 11:45 Operator: DDC
Sample : 47279.02 *E02G8 * Inst : HP_16
Misc : *EPA*30.4G/5.0ML*51 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:23 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9/13/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091155.D\ECD1A.CH Vial: 59
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091155.D\ECD2B.CH
Acq On : 12 Sep 2001 11:45 Operator: DDC
Sample : 47279.02 *E02G8 * Inst : HP_16
Misc : *EPA*30.4G/5.0ML*51 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:23 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.95	5.97	121018	125693	11.7	10.7
	Spiked Amount 13.426			Recovery	=	87.14%	79.69%
22)	S DCB	17.58	16.95	188096	205783	11.0	12.2
	Spiked Amount 13.426			Recovery	=	81.93%	90.87%

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02G9

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix: (soil/water) SOIL Lab Sample ID: 47279.03

Sample wt/vol: 31.6 (g/mL) G Lab File ID:_____

% Moisture: 50 decanted: (Y/N) __ Date Received: 08/15/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/12/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	63	U
11104-28-2	Aroclor-1221	63	U
11141-16-5	Aroclor-1232	63	U
53469-21-9	Aroclor-1242	23	JP
12672-29-6	Aroclor-1248	63	U
11097-69-1	Aroclor-1254	18	J
11096-82-5	Aroclor-1260	6.0	JP
	Surrogate amount spiked	12.66	

TBS
10-12-01

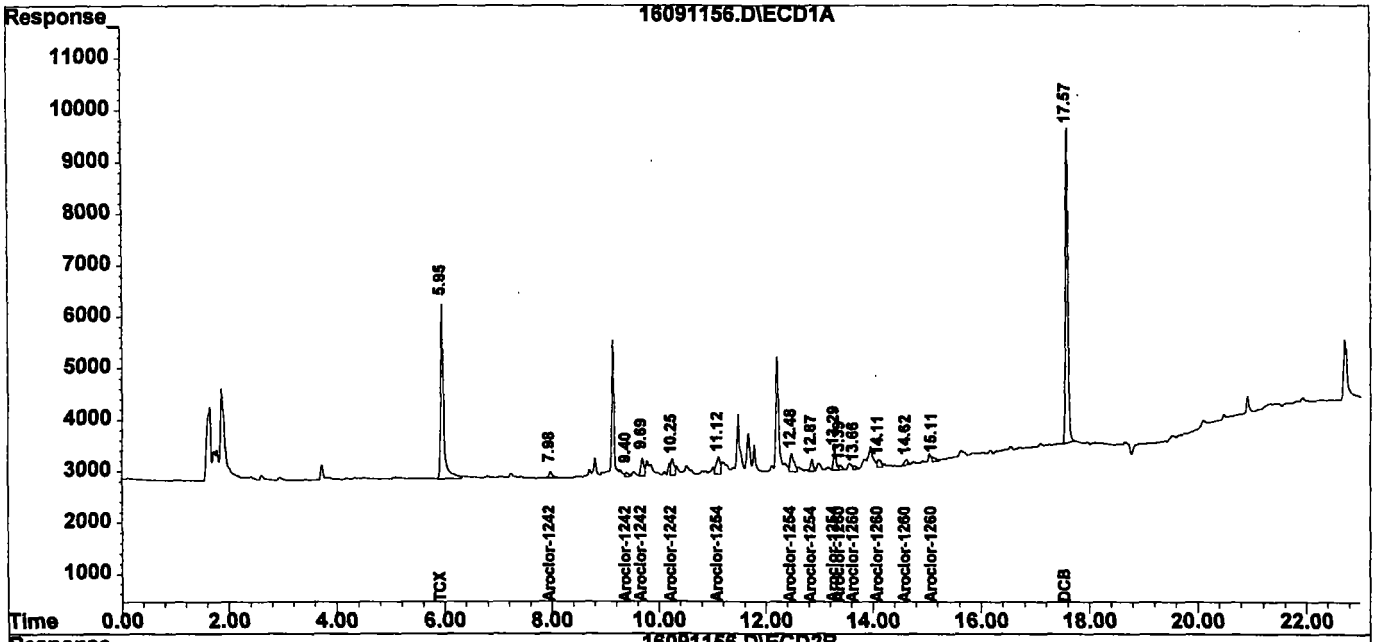
FORM I PCB

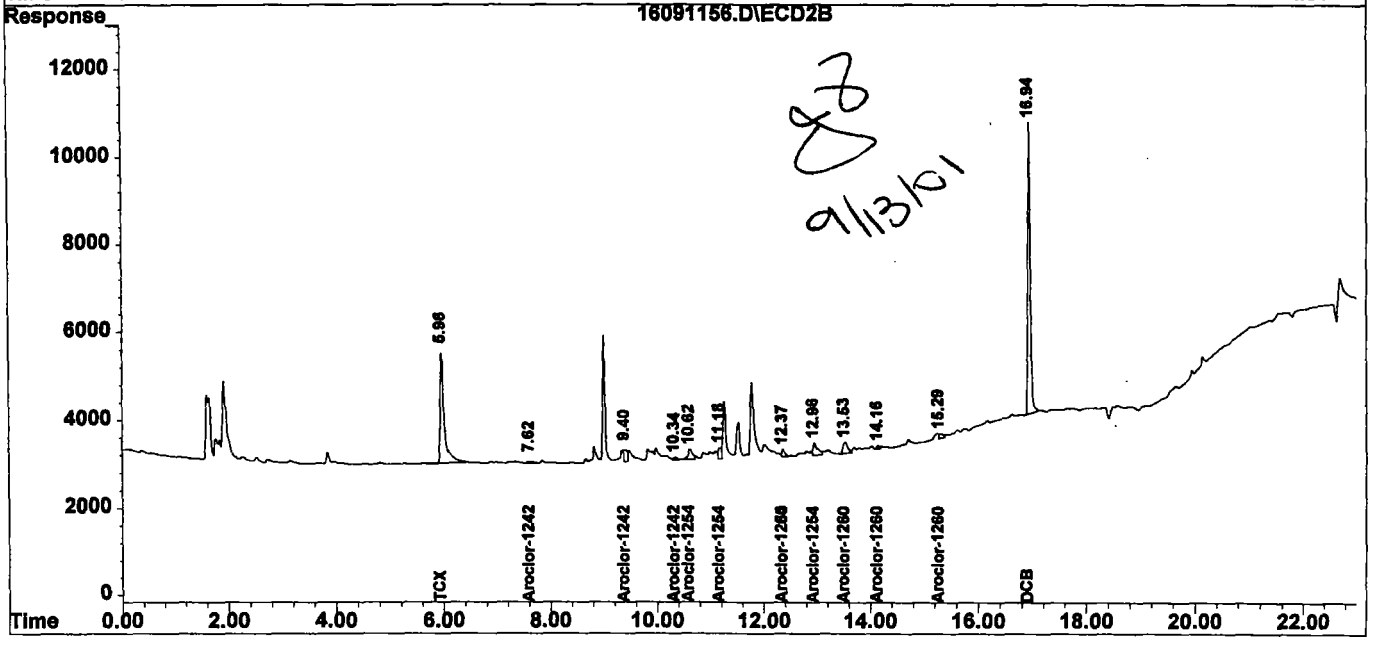
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091156.D\ECD1A.CH Vial: 60
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091156.D\ECD2B.CH
Acq On : 12 Sep 2001 12:12 Operator: DDC
Sample : 47279.03 *E02G9 * Inst : HP_16
Misc : *EPA*31.6G/5.0ML*50 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:26 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





8/8
9/13/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091156.D\ECD1A.CH Vial: 60
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091156.D\ECD2B.CH
Acq On : 12 Sep 2001 12:12 Operator: DDC
Sample : 47279.03 *E02G9 * Inst : HP_16
Misc : *EPA*31.6G/5.0ML*50 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:26 2001 Quant Results File: XPCBI11.RES

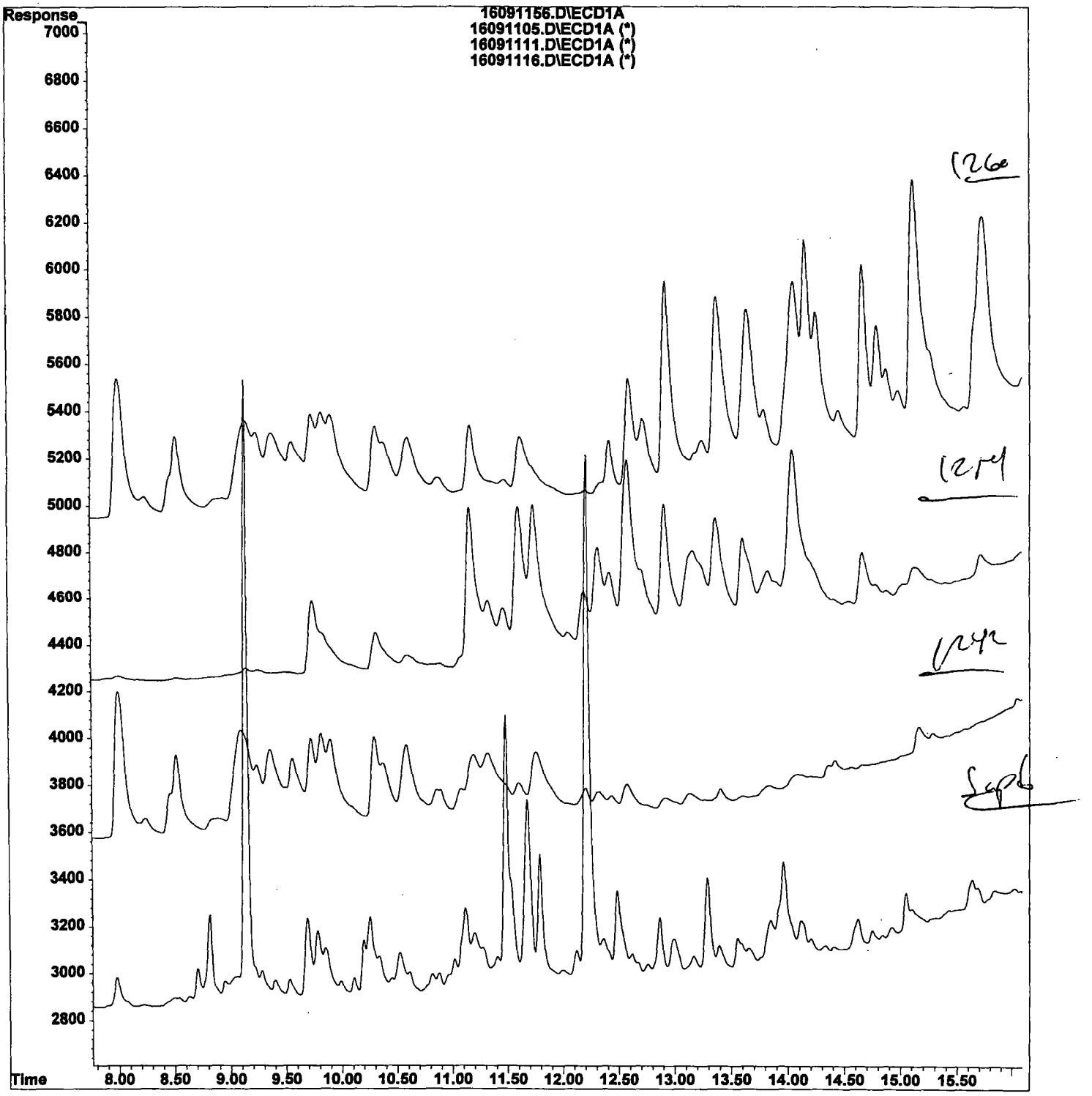
Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.95	5.97	131357	132456	12.0	10.7	
	Spiked Amount 12.658			Recovery	=	94.80%	84.53%	
22)	S DCB	17.57	16.94	187023	206231	10.4m	11.6m	
	Spiked Amount 12.658			Recovery	=	82.16%	91.64%	
	Target Compounds:							
7)	L4 Aroclor-1242	0.00	7.62	0	3294	N.D.	5.633	#
8)	L4 Aroclor-1242 {2}	7.98	0.00	5722	0	10.8	N.D.	#
9)	L4 Aroclor-1242 {3}	9.40f	0.00	3748	0	8.086	N.D. d	#
10)	L4 Aroclor-1242 {4}	9.69	9.40	12796	12123	52.9	40.4	
11)	L4 Aroclor-1242 {5}	10.25	10.34	13994	3715	54.4	22.9	#
	Sum Aroclor-1242			36262	19133	126.2	68.9	
	Average Aroclor-1242					31.556	22.959	
12)	L6 Aroclor-1254	11.12	10.62	16098	13154	25.1	26.6	
13)	L6 Aroclor-1254 {2}	0.00	11.18	0	8998	N.D.	15.2	#
14)	L6 Aroclor-1254 {3}	12.49f	0.00	17681	0	19.5	N.D. d	#
15)	L6 Aroclor-1254 {4}	12.87	12.37	8297	6020	15.9	12.0	
16)	L6 Aroclor-1254 {5}	13.29f	12.96	13797	16903	24.5	19.5	
	Sum Aroclor-1254			55872	45076	85.1	73.3	
	Average Aroclor-1254					21.272	18.333	
17)	L7 Aroclor-1260	13.40f	12.37	3742	6020	4.248	6.894	#
18)	L7 Aroclor-1260 {2}	13.66	13.53	2735	15376	3.454	15.1	#
19)	L7 Aroclor-1260 {3}	14.12f	14.16	7229	2965	11.2	5.375	#
20)	L7 Aroclor-1260 {4}	14.62f	0.00	4431	0	7.839	N.D. d	#
21)	L7 Aroclor-1260 {5}	15.11	15.30f	4420	5877	3.364	8.607	#
	Sum Aroclor-1260			22556	30239	19.1	22.8	
	Average Aroclor-1260					6.023	9.002	

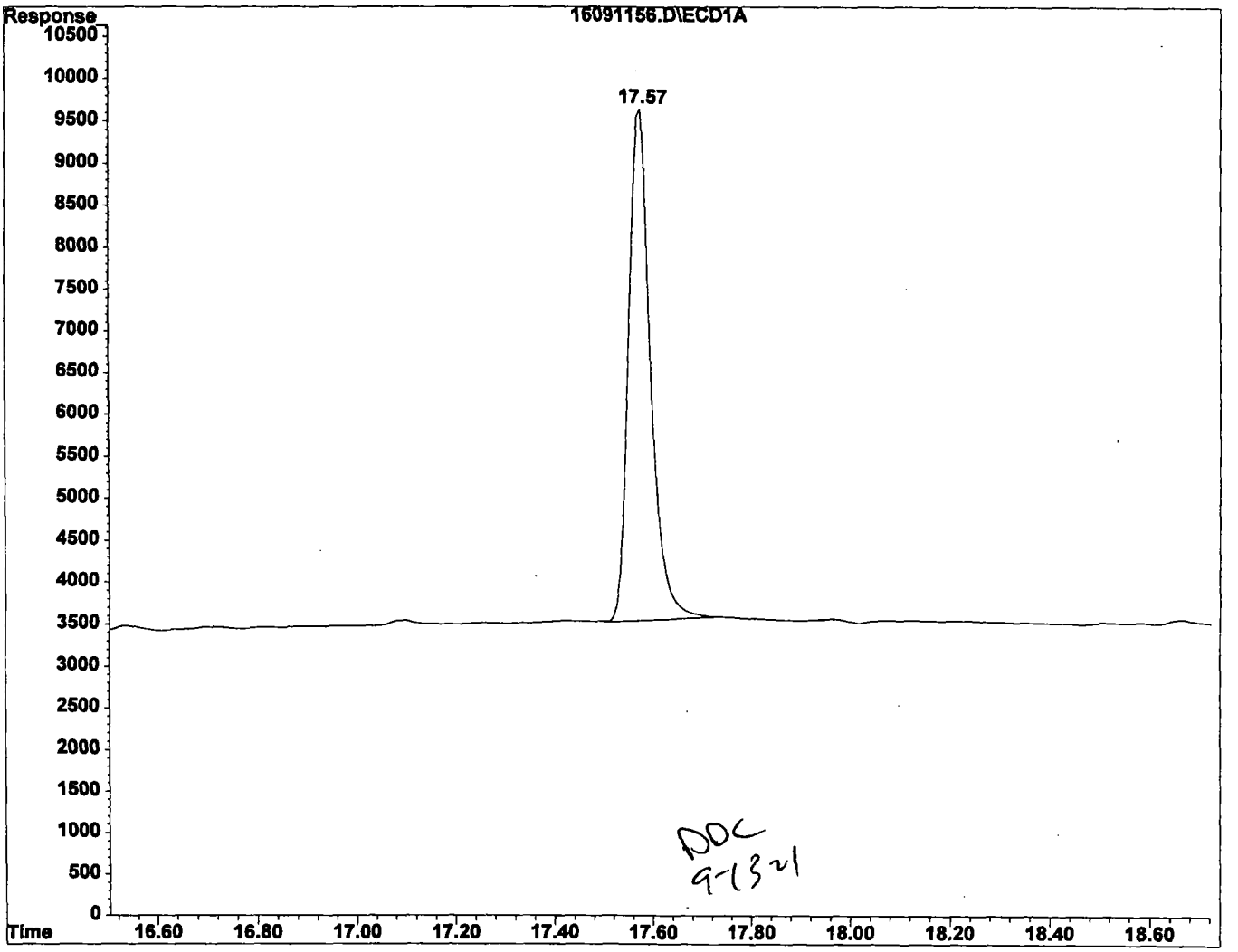
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

File : F:\HPCHEM\HP\16\DATA\09_11_01\16091156.D
Operator : DDC
Acquired : 12 Sep 2001 12:12 using AcqMethod OLM03.M
Instrument : HP_16
Sample Name: 47279.03 *E02G9 *
Misc Info : *EPA*31.6G/5.0ML*50
Vial Number: 60



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\09_11_01\16091156.D
Date Acquired: 12 Sep 2001 12:12
Inst: HP_16 Operator ID: DDC
Name: 47279.03 *E02G9 *
Misc: *EPA*31.6G/5.0ML*50
Method: F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title: PCB/TOXAPHENE
Quant Time: Sep 12 13:26 2001 Quant Results File: XPCBI11.RES



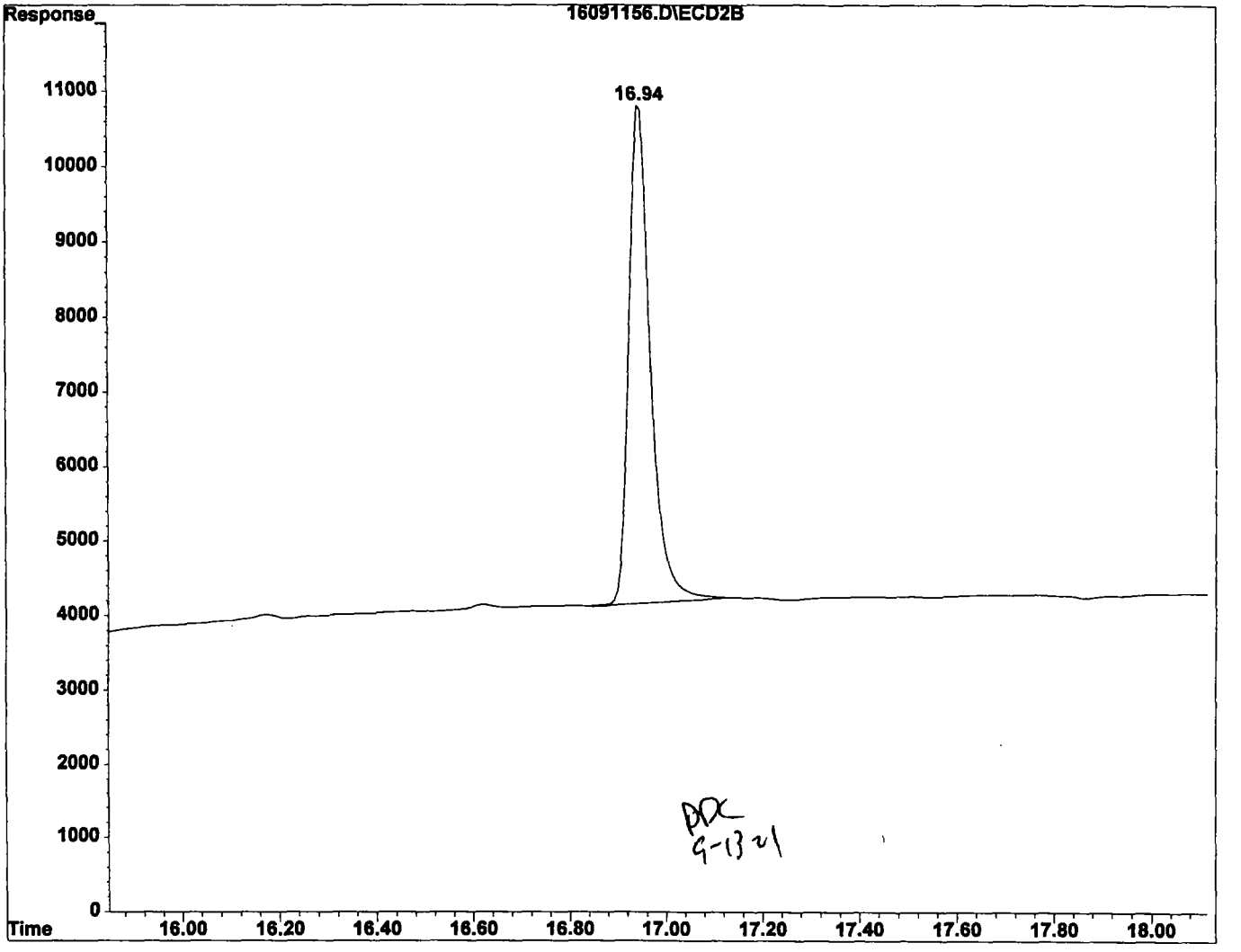
DCB 17.57min area: 187023 m

Integration Time Range: 17.50 - 17.72

F:\HPCHEM\HP\16\DATA\09_11_01\16091156.D
Report generated: Thu Sep 13 11:26:59 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\09_11_01\16091156.D
Date Acquired: 12 Sep 2001 12:12
Inst: HP_16 Operator ID: DDC
Name: 47279.03 *E02G9 *
Misc: *EPA*31.6G/5.0ML*50
Method: F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title: PCB/TOXAPHENE
Quant Time: Sep 12 13:26 2001 Quant Results File: XPCBI11.RES



DCB #2 16.94min area: 206231 m

Integration Time Range: 16.85 - 17.11

F:\HPCHEM\HP\16\DATA\09_11_01\16091156.D
Report generated: Thu Sep 13 11:27:00 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02H0

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix: (soil/water) SOIL Lab Sample ID: 47279.04

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

% Moisture: 80 decanted: (Y/N) __ Date Received: 08/15/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/12/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	160	UJ
11104-28-2	Aroclor-1221	160	U
11141-16-5	Aroclor-1232	160	U
53469-21-9	Aroclor-1242	160	U
12672-29-6	Aroclor-1248	160	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U
Surrogate amount spiked		32.79	

TBS
10-12-01

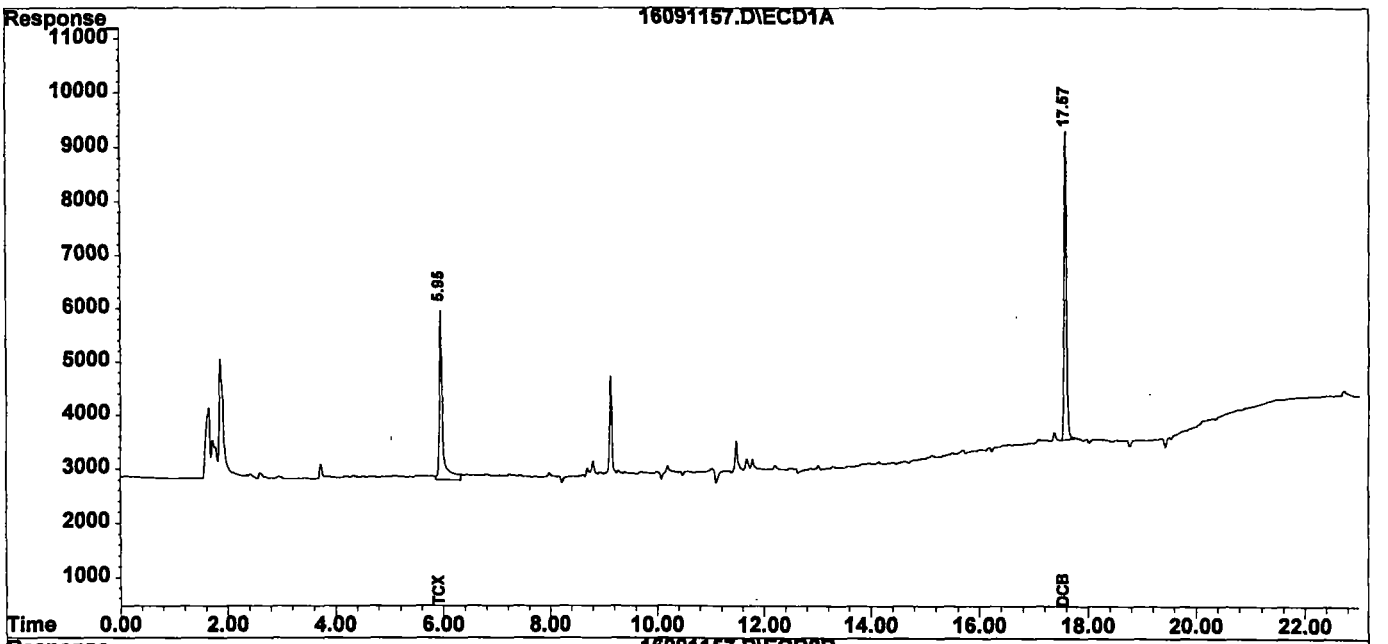
FORM I PCB

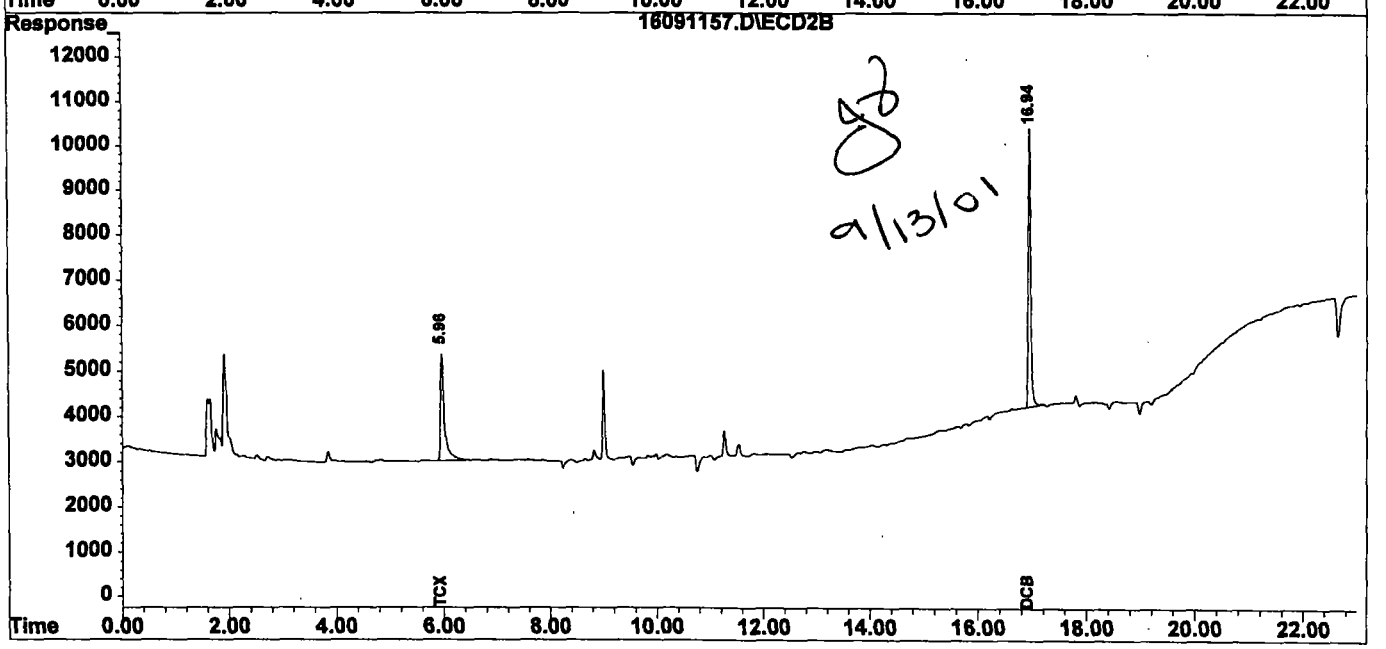
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091157.D\ECD1A.CH Vial: 61
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091157.D\ECD2B.CH
Acq On : 12 Sep 2001 12:38 Operator: DDC
Sample : 47279.04 *E02H0 * Inst : HP_16
Misc : *EPA*30.5G/5.0ML*80 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:51 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9/13/01

Quantitation Report

```
Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091157.D\ECD1A.CH Vial: 61
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091157.D\ECD2B.CH
Acq On    : 12 Sep 2001  12:38                        Operator: DDC
Sample    : 47279.04  *E02H0  *                       Inst    : HP_16
Misc      : *EPA*30.5G/5.0ML*80                       Dilution: 1.00
IntFile Signal #1: events1.e     IntFile Signal #2: events2.e
Quant Time: Sep 12 13:51 2001  Quant Results File: XPCBI11.RES

Method       : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path   : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update  : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj.      : 0.5uL
Signal #1 Phase : RTX-PEST 2        Signal #2 Phase: RTX-PEST
Signal #1 Info  : .32 mm            Signal #2 Info : .32 mm
Signal #1 Inst  : HP_16A            Signal #2 Inst : HP_16B
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.95	5.96	132624	118514	31.4	24.7
	Spiked Amount 32.787			Recovery	=	95.77%	75.34%
22)	S DCB	17.57	16.95	176486	191862	25.3	27.9
	Spiked Amount 32.787			Recovery	=	77.17%	85.10%
	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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02H1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix: (soil/water) SOIL Lab Sample ID: 47279.05

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

% Moisture: 86 decanted: (Y/N) __ Date Received: 08/15/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/12/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	230	U
11104-28-2	Aroclor-1221	230	U
11141-16-5	Aroclor-1232	230	U
53469-21-9	Aroclor-1242	230	U
12672-29-6	Aroclor-1248	230	U
11097-69-1	Aroclor-1254	230	U
11096-82-5	Aroclor-1260	230	U
Surrogate amount spiked		46.09	

TBS
10-12-01

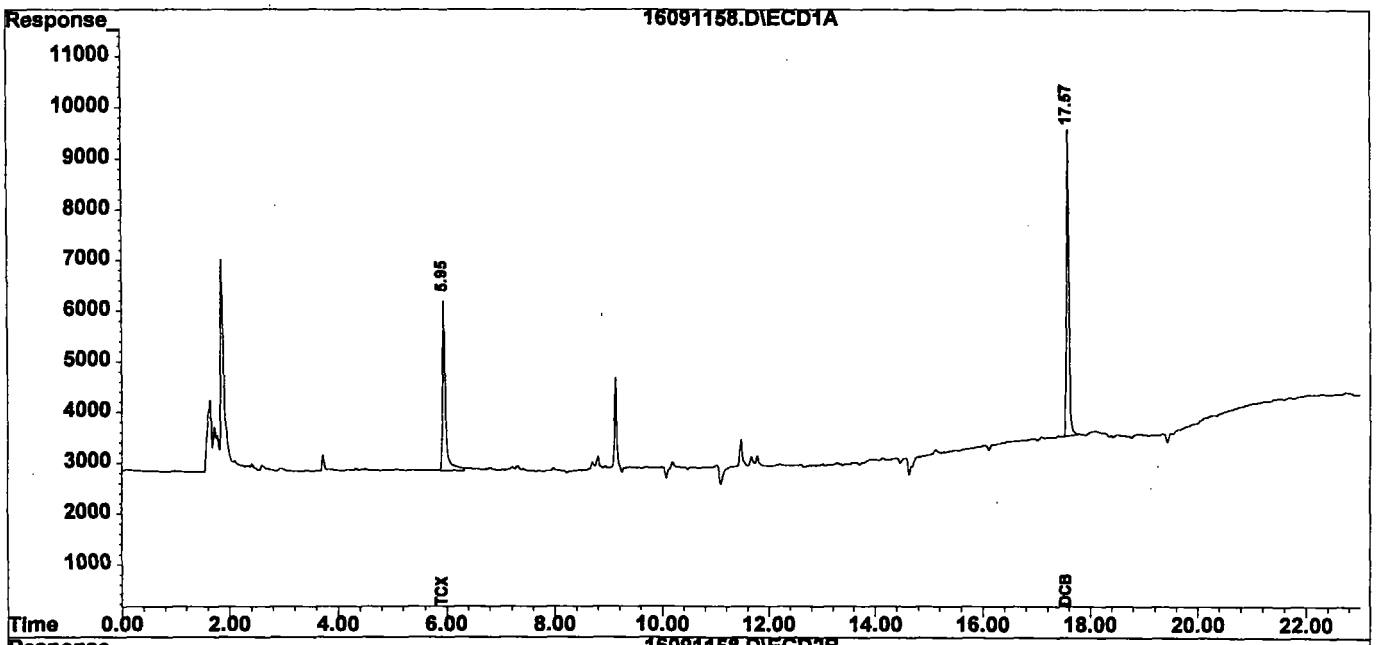
FORM I PCB

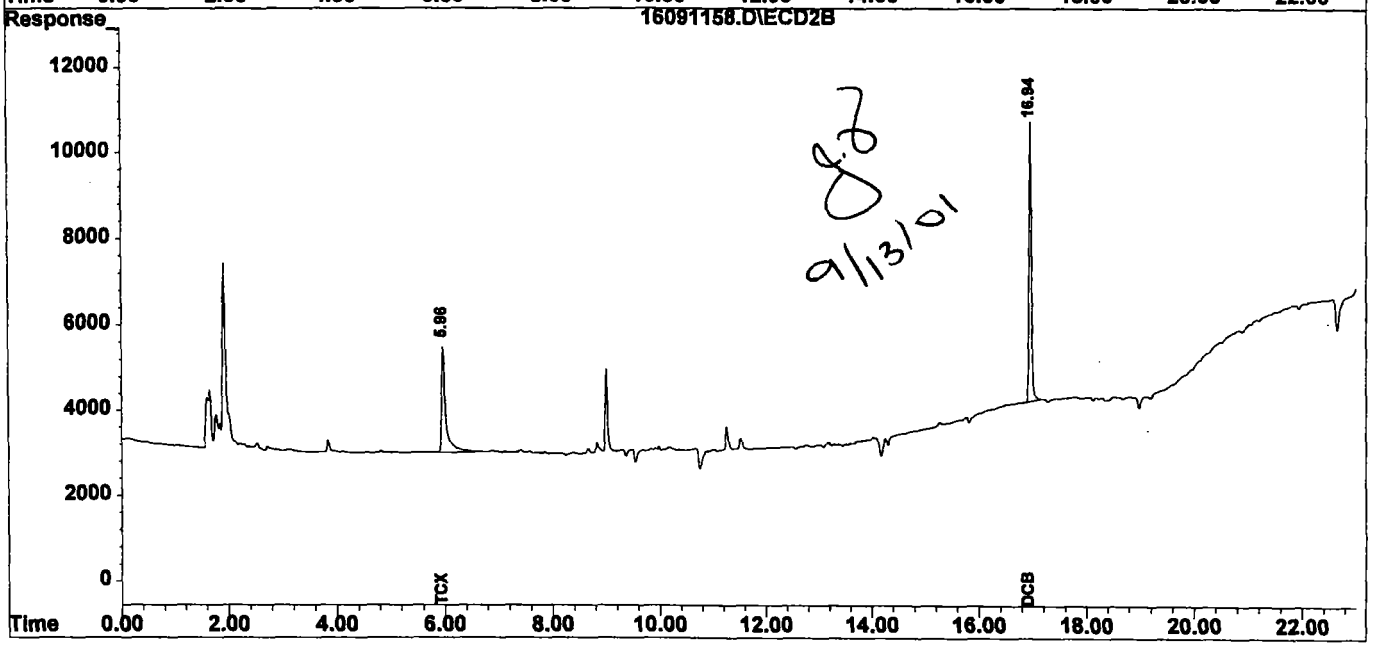
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091158.D\ECD1A.CH Vial: 62
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091158.D\ECD2B.CH
Acq On : 12 Sep 2001 13:05 Operator: DDC
Sample : 47279.05 *E02H1 * Inst : HP_16
Misc : *EPA*31G/5.0ML*86 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 16:34 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_10_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





8.8
9/13/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091158.D\ECD1A.CH Vial: 62
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091158.D\ECD2B.CH
Acq On : 12 Sep 2001 13:05 Operator: DDC
Sample : 47279.05 *E02H1 * Inst : HP_16
Misc : *EPA*31G/5.0ML*86 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 16:34 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_10_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.95	5.96	128832	133514	42.8	39.1
	Spiked Amount 46.083			Recovery	=	92.88%	84.85%
22)	S DCB	17.57	16.95	189501	203018	38.2	41.5
	Spiked Amount 46.083			Recovery	=	82.89%	90.06%

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02H2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix: (soil/water) SOIL Lab Sample ID: 47279.06

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

% Moisture: 88 decanted: (Y/N) __ Date Received: 08/15/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/12/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	270	U
11104-28-2	Aroclor-1221	270	U
11141-16-5	Aroclor-1232	270	U
53469-21-9	Aroclor-1242	270	U
12672-29-6	Aroclor-1248	270	U
11097-69-1	Aroclor-1254	270	U
11096-82-5	Aroclor-1260	270	U
Surrogate amount spiked		54.64	

TBS
10-12-01

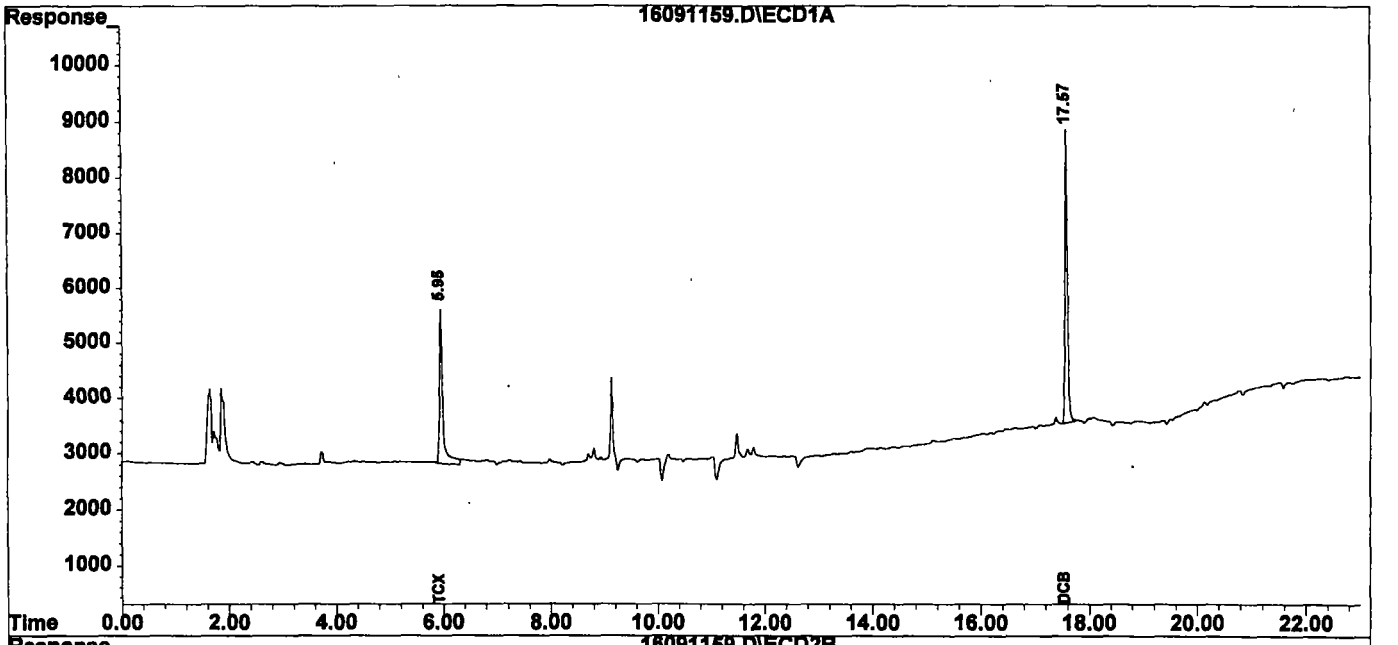
FORM I PCB

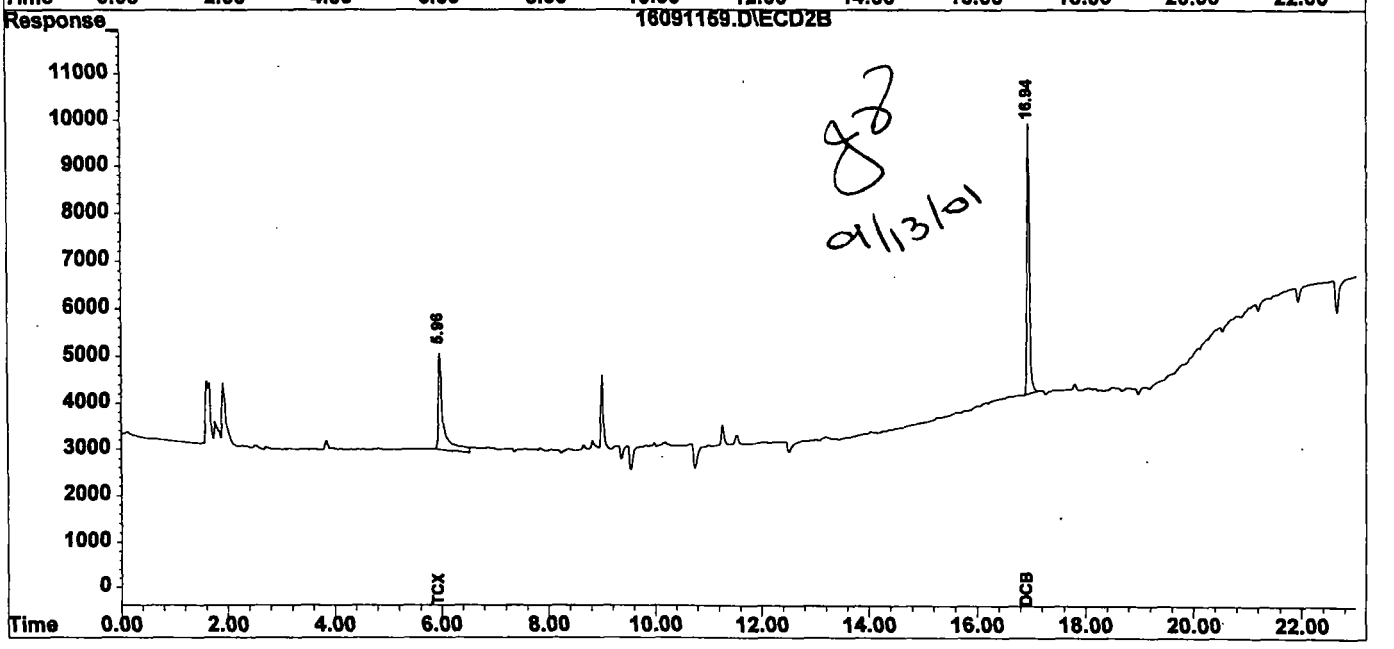
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091159.D\ECD1A.CH Vial: 63
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091159.D\ECD2B.CH
Acq On : 12 Sep 2001 13:31 Operator: DDC
Sample : 47279.06 *E02H2 * Inst : HP_16
Misc : *EPA*30.5G/5.0ML*88 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 16:35 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_10_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





gg
9/13/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091159.D\ECD1A.CH Vial: 63
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091159.D\ECD2B.CH
Acq On : 12 Sep 2001 13:31 Operator: DDC
Sample : 47279.06 *E02H2 * Inst : HP_16
Misc : *EPA*30.5G/5.0ML*88 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 16:35 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_10_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.95	5.97	120430	135401	47.5	47.0
	Spiked Amount 54.645			Recovery	=	86.93%	86.01%
22)	S DCB	17.57	16.95	168390	180530	40.3	43.7
	Spiked Amount 54.645			Recovery	=	73.75%	79.97%

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

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091159.D\ECD1A.CH Vial: 63
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091159.D\ECD2B.CH
Acq On : 12 Sep 2001 13:31 Operator: DDC
Sample : 47279.06 *E02H2 * Inst : HP_16
Misc : *EPA*30.5G/5.0ML*88 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 16:35 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_10_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.95	5.97	120430	135401	47.5	47.0
	Spiked Amount 54.645			Recovery	=	86.93%	86.01%
22)	S DCB	17.57	16.95	168390	180530	40.3	43.7
	Spiked Amount 54.645			Recovery	=	73.75%	79.97%

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

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091159.D\ECD1A.CH Vial: 63
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091159.D\ECD2B.CH
Acq On : 12 Sep 2001 13:31 Operator: DDC
Sample : 47279.06 *E02H2 * Inst : HP_16
Misc : *EPA*30.5G/5.0ML*88 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 16:35 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_10_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.95	5.97	120430	135401	47.5	47.0
	Spiked Amount 54.645			Recovery	=	86.93%	86.01%
22)	S DCB	17.57	16.95	168390	180530	40.3	43.7
	Spiked Amount 54.645			Recovery	=	73.75%	79.97%

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02H3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix: (soil/water) SOIL Lab Sample ID: 47279.07

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

% Moisture: 89 decanted: (Y/N) __ Date Received: 08/15/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/12/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	290	U
11104-28-2	Aroclor-1221	290	U
11141-16-5	Aroclor-1232	290	U
53469-21-9	Aroclor-1242	290	U
12672-29-6	Aroclor-1248	290	U
11097-69-1	Aroclor-1254	290	U
11096-82-5	Aroclor-1260	290	U
Surrogate amount spiked		59.03	

TBS
10-12-01

FORM I PCB

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02H3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix: (soil/water) SOIL Lab Sample ID: 47279.07

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

% Moisture: 89 decanted: (Y/N) __ Date Received: 08/15/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/12/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	290	U
11104-28-2	Aroclor-1221	290	U
11141-16-5	Aroclor-1232	290	U
53469-21-9	Aroclor-1242	290	U
12672-29-6	Aroclor-1248	290	U
11097-69-1	Aroclor-1254	290	U
11096-82-5	Aroclor-1260	290	U
Surrogate amount spiked		59.03	

TBS
10-12-01

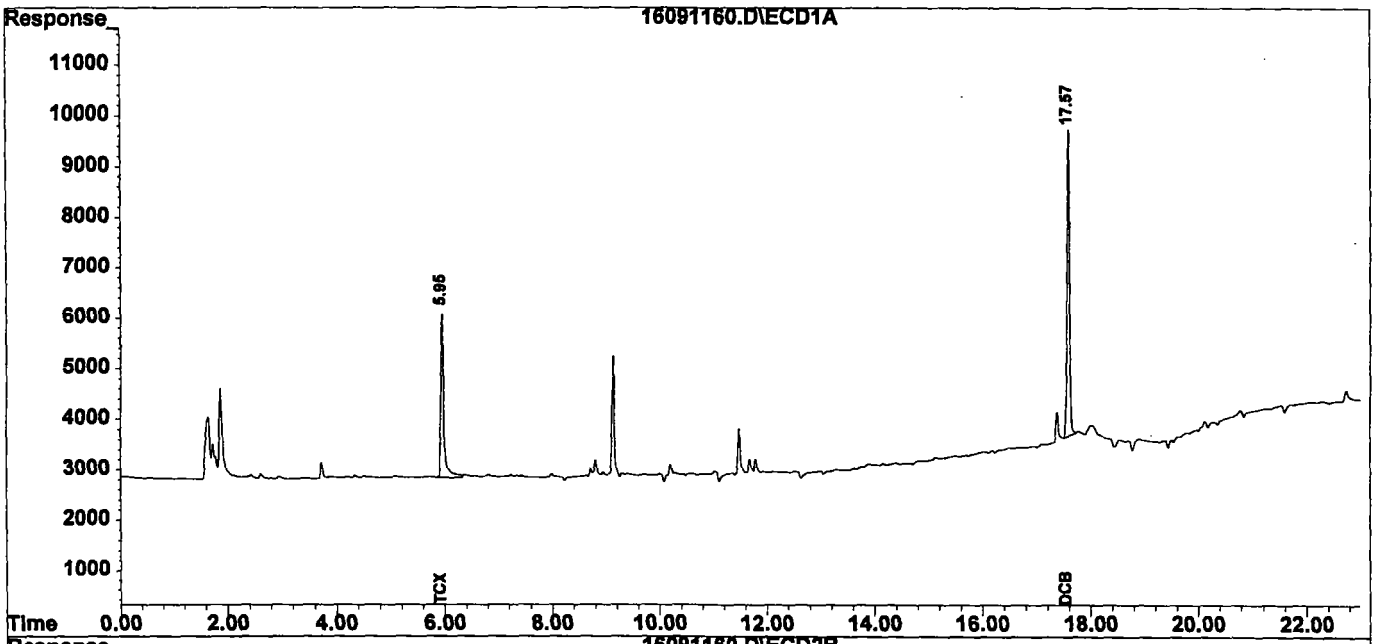
FORM I PCB

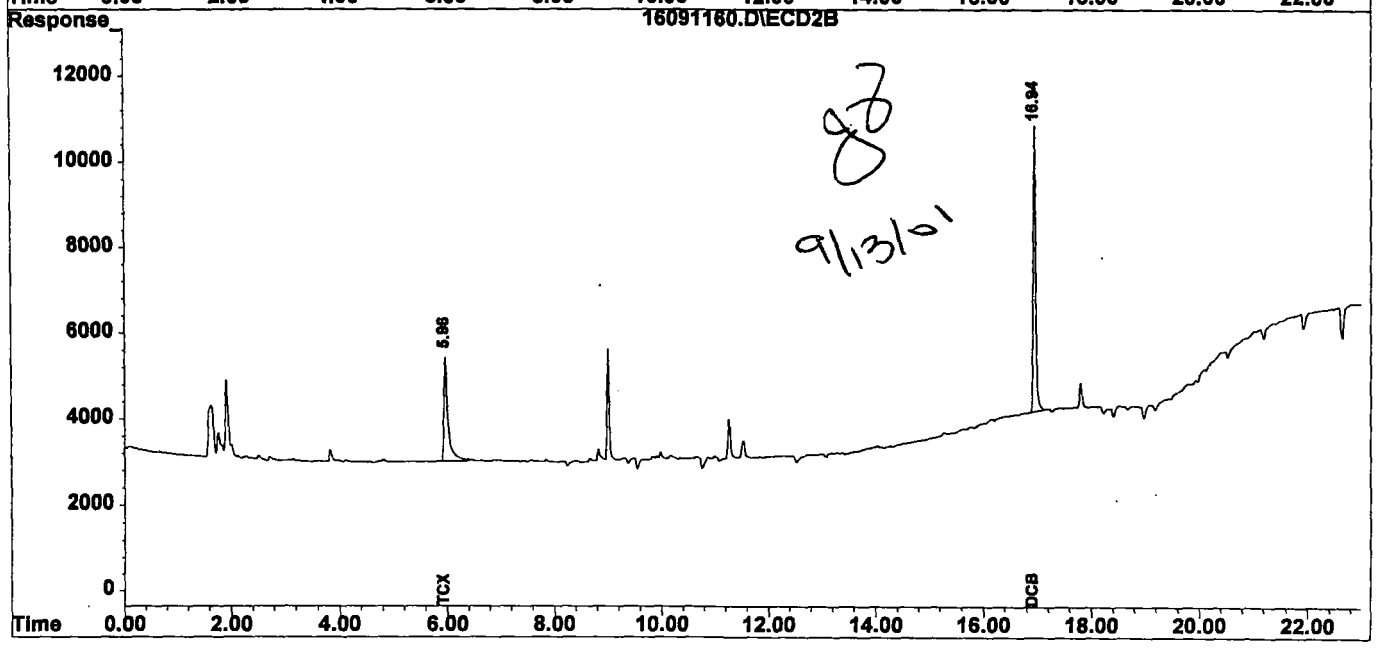
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091160.D\ECD1A.CH Vial: 64
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091160.D\ECD2B.CH
Acq On : 12 Sep 2001 13:57 Operator: DDC
Sample : 47279.07 *E02H3 * Inst : HP_16
Misc : *EPA*30.8G/5.0ML*89 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 16:35 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_10_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





gg
9/13/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091160.D\ECD1A.CH Vial: 64
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091160.D\ECD2B.CH
Acq On : 12 Sep 2001 13:57 Operator: DDC
Sample : 47279.07 *E02H3 * Inst : HP_16
Misc : *EPA*30.8G/5.0ML*89 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 16:35 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_10_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.95	5.96	123914	124320	52.8	46.7
	Spiked Amount 59.032			Recovery	=	89.44%	79.11%
22)	S DCB	17.57	16.94	189694	206348	49.0	54.0
	Spiked Amount 59.032			Recovery	=	83.01%	91.48%
	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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02H4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix: (soil/water) SOIL Lab Sample ID: 47279.08

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

% Moisture: 38 decanted: (Y/N) __ Date Received: 08/15/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/12/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	53	U
11104-28-2	Aroclor-1221	53	U
11141-16-5	Aroclor-1232	53	U
53469-21-9	Aroclor-1242	53	U
12672-29-6	Aroclor-1248	53	U
11097-69-1	Aroclor-1254	53	U
11096-82-5	Aroclor-1260	53	U
Surrogate amount spiked		10.76	

TBS
10-12-01

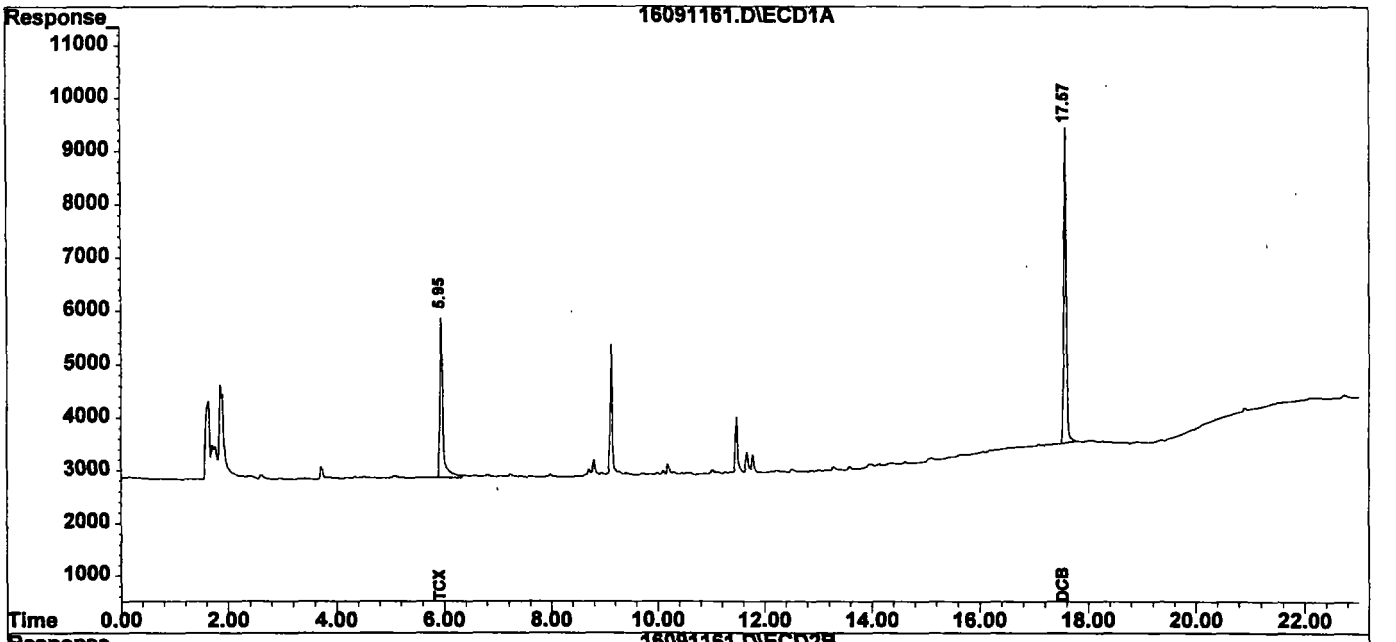
FORM I PCB

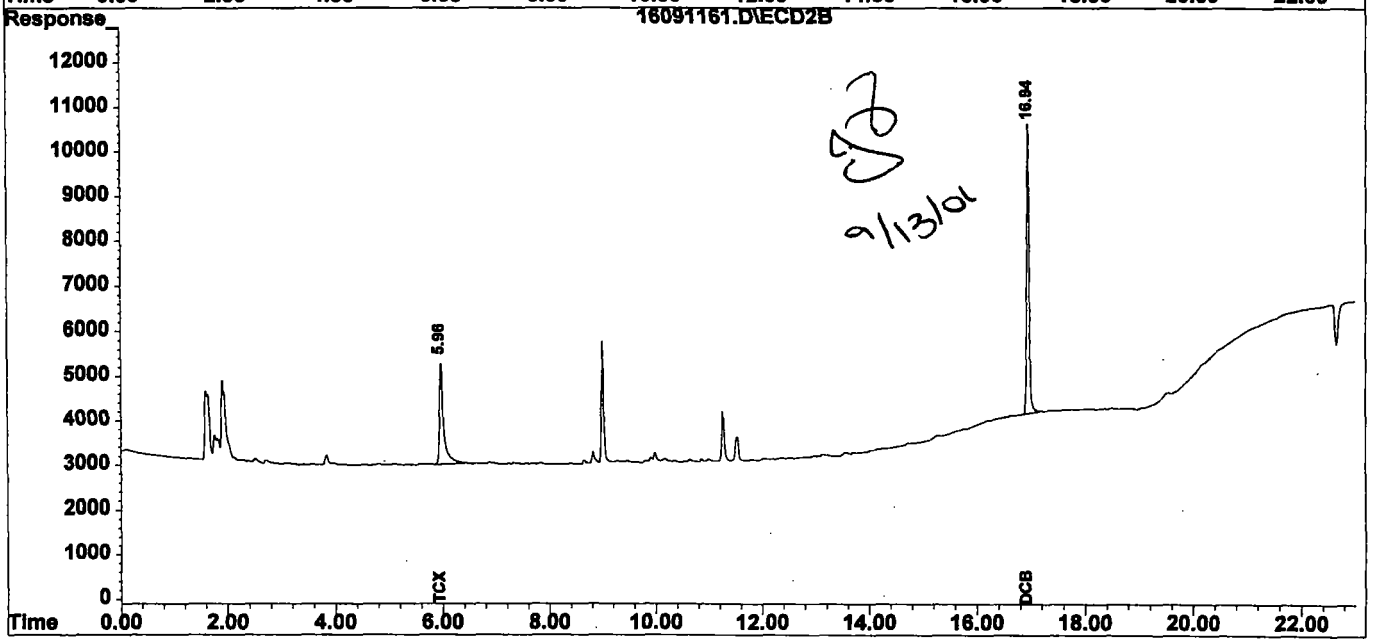
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091161.D\ECD1A.CH Vial: 65
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091161.D\ECD2B.CH
Acq On : 12 Sep 2001 14:24 Operator: DDC
Sample : 47279.08 *E02H4 * Inst : HP_16
Misc : *EPA*30G/5.0ML*38 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 16:35 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_10_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9/13/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091161.D\ECD1A.CH Vial: 65
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091161.D\ECD2B.CH
Acq On : 12 Sep 2001 14:24 Operator: DDC
Sample : 47279.08 *E02H4 * Inst : HP_16
Misc : *EPA*30G/5.0ML*38 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 16:35 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_10_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.95	5.97	120102	121915	9.321	8.336
	Spiked Amount 10.753			Recovery	=	86.69%	77.52%
22)	S DCB	17.57	16.94	184729	200512	8.689	9.555
	Spiked Amount 10.753			Recovery	=	80.81%	88.86%

Target Compounds:

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

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Instrument ID: HP_16A Date(s) Analyzed: 09/11/01 09/11/01

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

GC Column: RTX-PEST 2 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1242 L1	0.10	1	7.14	229080	MEAN
		2	8.00	399610	
		3	9.36	310390	
		4	9.73	174990	
		5	10.30	176630	
Aroclor 1242 L2	0.20	1	7.13	194075	MEAN
		2	7.99	348540	
		3	9.34	284805	
		4	9.72	157860	
		5	10.29	161120	
Aroclor 1242 L3	0.40	1	7.12	177158	MEAN
		2	7.99	327478	
		3	9.33	270253	
		4	9.71	152128	
		5	10.28	159778	
Aroclor 1242 L4	0.80	1	7.11	169014	MEAN
		2	7.98	304746	
		3	9.30	310601	
		4	9.70	143469	
		5	10.27	155915	
Aroclor 1242 L5	1.60	1	7.10	164506	MEAN
		2	7.97	292005	
		3	9.28	290879	
		4	9.69	137588	
		5	10.26	159944	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	7.11	7.06	7.16	186766	14.0
	2	7.99	7.94	8.04	334476	12.7
	3	9.32	9.27	9.37	293386	5.9
	4	9.71	9.66	9.76	153207	9.4
	5	10.28	10.23	10.33	162677	4.9

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Instrument ID: HP_16B Date(s) Analyzed: 09/11/01 09/11/01

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

GC Column: RTX-PEST ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1242 L1	0.10	1	7.64	417700	MEAN
		2	8.08	259810	
		3	8.99	386020	
		4	9.41	233920	
		5	10.34	106840	
Aroclor 1242 L2	0.20	1	7.63	383175	MEAN
		2	8.08	247855	
		3	8.99	335600	
		4	9.41	204480	
		5	10.33	83685	
Aroclor 1242 L3	0.40	1	7.63	361013	MEAN
		2	8.08	243630	
		3	8.99	316068	
		4	9.40	181053	
		5	10.33	102885	
Aroclor 1242 L4	0.80	1	7.62	346484	MEAN
		2	8.07	256186	
		3	8.99	279989	
		4	9.40	168558	
		5	10.32	109284	
Aroclor 1242 L5	1.60	1	7.61	342332	MEAN
		2	8.06	267231	
		3	8.98	266584	
		4	9.39	162638	
		5	10.32	110989	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	7.62	7.57	7.67	370141	8.4
	2	8.07	8.02	8.12	254943	3.7
	3	8.99	8.94	9.04	316852	15.0
	4	9.40	9.35	9.45	190130	15.4
	5	10.33	10.28	10.38	102737	10.8

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Instrument ID: HP_16A Date(s) Analyzed: 09/11/01 09/11/01

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

GC Column: RTX-PEST 2 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1254 L1	0.10	1	11.16	421700	MEAN
		2	11.60	383210	
		3	12.57	722340	
		4	12.91	343840	
		5	13.36	355210	
Aroclor 1254 L2	0.20	1	11.15	480780	MEAN
		2	11.58	431400	
		3	12.55	644880	
		4	12.90	406885	
		5	13.35	430570	
Aroclor 1254 L3	0.40	1	11.15	304410	MEAN
		2	11.58	271418	
		3	12.54	410240	
		4	12.90	260653	
		5	13.34	276545	
Aroclor 1254 L4	0.80	1	11.14	400184	MEAN
		2	11.55	347484	
		3	12.52	541973	
		4	12.88	328251	
		5	13.32	360825	
Aroclor 1254 L5	1.60	1	11.13	419044	MEAN
		2	11.54	343576	
		3	12.50	547561	
		4	12.88	311757	
		5	13.31	356749	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	11.14	11.09	11.19	405224	15.8
	2	11.57	11.52	11.62	355418	16.5
	3	12.54	12.49	12.59	573399	20.6
	4	12.89	12.84	12.94	330277	16.1
	5	13.34	13.29	13.39	355980	15.3

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Instrument ID: HP_16B Date(s) Analyzed: 09/11/01 09/11/01

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

GC Column: RTX-PEST ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1254 L1	0.10	1	10.63	344990	MEAN
		2	11.21	410680	
		3	11.79	232600	
		4	12.38	314380	
		5	12.99	558950	
Aroclor 1254 L2	0.20	1	10.62	378450	MEAN
		2	11.19	437600	
		3	11.79	286360	
		4	12.38	383705	
		5	12.98	663795	
Aroclor 1254 L3	0.40	1	10.62	236778	MEAN
		2	11.19	280680	
		3	11.78	194600	
		4	12.38	249108	
		5	12.98	421203	
Aroclor 1254 L4	0.80	1	10.61	302796	MEAN
		2	11.18	371364	
		3	11.77	282454	
		4	12.37	324899	
		5	12.97	553518	
Aroclor 1254 L5	1.60	1	10.61	301492	MEAN
		2	11.17	375074	
		3	11.76	297896	
		4	12.37	314563	
		5	12.96	541123	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	10.61	10.56	10.66	312901	17.0
	2	11.19	11.14	11.24	375080	15.8
	3	11.78	11.73	11.83	258782	16.9
	4	12.38	12.33	12.43	317331	15.1
	5	12.98	12.93	13.03	547718	15.7

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Instrument ID: HP_16A Date(s) Analyzed: 09/11/01 09/11/01

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

GC Column: RTX-PEST 2 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1016 L1	0.10	1	8.01	416140	MEAN
		2	8.52	261710	
		3	9.56	230300	
		4	9.83	204370	
		5	10.60	286730	
Aroclor 1016 L2	0.20	1	8.00	475095	MEAN
		2	8.52	325290	
		3	9.56	277030	
		4	9.82	239700	
		5	10.59	356715	
Aroclor 1016 L3	0.40	1	7.99	368460	MEAN
		2	8.51	263050	
		3	9.55	214093	
		4	9.80	188208	
		5	10.58	284563	
Aroclor 1016 L4	0.80	1	7.98	357768	MEAN
		2	8.51	260041	
		3	9.54	219653	
		4	9.79	180840	
		5	10.56	281151	
Aroclor 1016 L5	1.60	1	7.97	361444	MEAN
		2	8.50	193254	
		3	9.53	239688	
		4	9.78	185614	
		5	10.54	292282	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	7.98	7.93	8.03	395781	12.7
	2	8.51	8.46	8.56	260669	17.9
	3	9.55	9.50	9.60	236153	10.5
	4	9.80	9.75	9.85	199746	12.0
	5	10.57	10.52	10.62	300288	10.6

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Instrument ID: HP_16A Date(s) Analyzed: 09/11/01 09/11/01

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

GC Column: RTX-PEST 2 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1260 L1	0.10	1	13.37	521830	MEAN
		2	13.64	468340	
		3	14.15	429540	
		4	14.66	321450	
		5	15.12	838590	
Aroclor 1260 L2	0.20	1	13.35	658330	MEAN
		2	13.64	586175	
		3	14.14	502305	
		4	14.66	408035	
		5	15.11	1049765	
Aroclor 1260 L3	0.40	1	13.33	536670	MEAN
		2	13.63	475070	
		3	14.13	367660	
		4	14.65	340153	
		5	15.08	806103	
Aroclor 1260 L4	0.80	1	13.32	525266	MEAN
		2	13.62	475629	
		3	14.12	370283	
		4	14.64	342770	
		5	15.08	695971	
Aroclor 1260 L5	1.60	1	13.30	544962	MEAN
		2	13.61	500279	
		3	14.12	371447	
		4	14.63	376142	
		5	15.06	767963	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	13.32	13.27	13.37	557412	10.3
	2	13.63	13.58	13.68	501099	9.8
	3	14.13	14.08	14.18	408247	14.4
	4	14.65	14.60	14.70	357710	9.6
	5	15.09	15.04	15.14	831678	16.0

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Instrument ID: HP_16B Date(s) Analyzed: 09/11/01 09/11/01

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

GC Column: RTX-PEST ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1016 L1	0.10	1	7.64	424590	MEAN
		2	8.96	199480	
		3	9.42	243640	
		4	9.86	376720	
		5	10.63	240270	
Aroclor 1016 L2	0.20	1	7.64	489370	MEAN
		2	8.97	208680	
		3	9.41	259740	
		4	9.85	436335	
		5	10.63	308420	
Aroclor 1016 L3	0.40	1	7.63	399910	MEAN
		2	8.97	154210	
		3	9.41	208623	
		4	9.84	352808	
		5	10.62	270548	
Aroclor 1016 L4	0.80	1	7.62	402024	MEAN
		2	8.98	186790	
		3	9.40	197563	
		4	9.83	351261	
		5	10.62	276105	
Aroclor 1016 L5	1.60	1	7.60	414413	MEAN
		2	8.97	179235	
		3	9.38	200345	
		4	9.82	361871	
		5	10.61	278951	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	7.62	7.57	7.67	426061	8.6
	2	8.97	8.92	9.02	185679	11.3
	3	9.40	9.35	9.45	221982	12.6
	4	9.84	9.79	9.89	375799	9.4
	5	10.62	10.57	10.67	274859	8.8

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Instrument ID: HP_16B Date(s) Analyzed: 09/11/01 09/11/01

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

GC Column: RTX-PEST ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1260 L1	0.10	1	12.39	578490	MEAN
		2	13.57	546990	
		3	14.18	327880	
		4	14.75	861240	
		5	15.33	437260	
Aroclor 1260 L2	0.20	1	12.38	659040	MEAN
		2	13.56	703195	
		3	14.17	416855	
		4	14.74	1060415	
		5	15.32	526140	
Aroclor 1260 L3	0.40	1	12.38	509970	MEAN
		2	13.55	602523	
		3	14.17	307708	
		4	14.73	855838	
		5	15.32	364438	
Aroclor 1260 L4	0.80	1	12.37	502728	MEAN
		2	13.54	635106	
		3	14.16	329978	
		4	14.72	903675	
		5	15.32	415954	
Aroclor 1260 L5	1.60	1	12.36	513362	MEAN
		2	13.52	727558	
		3	14.16	363371	
		4	14.71	988857	
		5	15.31	417209	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	12.37	12.32	12.42	552718	12.1
	2	13.55	13.50	13.60	643074	11.5
	3	14.17	14.12	14.22	349158	12.3
	4	14.73	14.68	14.78	934005	9.5
	5	15.32	15.27	15.37	432200	13.7

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Instrument ID: HP_16A Date(s) Analyzed: 09/11/01 09/11/01

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

GC Column: RTX-PEST 2 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1221	0.40	1	6.65	98305	SINGLE
		2	6.97	65388	POINT
		3	7.11	299185	
		4			
		5			
Aroclor 1232	0.40	1	7.98	217240	SINGLE
		2	8.51	113303	POINT
		3	9.03	300198	
		4	9.31	172743	
		5			
Aroclor 1248	0.40	1	9.71	240968	SINGLE
		2	9.80	237265	POINT
		3	10.27	277390	
		4	10.56	434973	
		5	11.57	187688	

FORM VI PCB-3

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Instrument ID: HP_16B Date(s) Analyzed: 09/11/01 09/11/01

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

GC Column: RTX-PEST ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1221	0.40	1	6.48	74955	SINGLE
		2	6.83	35980	POINT
		3	6.90	330660	
		4			
		5			
Aroclor 1232	0.40	1	7.63	220203	SINGLE
		2	8.08	126843	POINT
		3	9.02	179313	
		4	9.41	179693	
		5			
Aroclor 1248	0.40	1	9.24	99030	SINGLE
		2	9.40	262758	POINT
		3	9.83	502305	
		4	10.10	522038	
		5	10.92	522990	

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MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

GC Column: RTX-PEST 2 ID: 0.32(mm) Init. Calib Date(s): 09/11/01 09/11/01

Client Sample No.(PIBLK): PIBLKCW Date Analyzed : 09/11/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 2046

Client Sample No.: AR1660L3CO Date Analyzed : 09/12/01

Lab Sample ID : 5-210-7 Time Analyzed : 0256

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.99	7.93	8.03	423310	395781	7.0
Aroclor 1016 #2	8.51	8.46	8.56	304555	260669	16.8*
Aroclor 1016 #3	9.55	9.50	9.60	252030	236153	6.7
Aroclor 1016 #4	9.80	9.75	9.85	215788	199746	8.0
Aroclor 1016 #5	10.56	10.52	10.62	329970	300288	9.9
Aroclor 1260 #1	13.32	13.27	13.37	620045	557412	11.2
Aroclor 1260 #2	13.62	13.58	13.68	548433	501099	9.4
Aroclor 1260 #3	14.13	14.08	14.18	416393	408247	2.0
Aroclor 1260 #4	14.64	14.60	14.70	397595	357710	11.2
Aroclor 1260 #5	15.08	15.04	15.14	808550	831678	2.8

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 Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

GC Column: RTX-PEST ID: 0.32(mm) Init. Calib Date(s): 09/11/01 09/11/01

Client Sample No.(PIBLK): PIBLKCW Date Analyzed : 09/11/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 2046

Client Sample No.: AR1660L3CO Date Analyzed : 09/12/01

Lab Sample ID : 5-210-7 Time Analyzed : 0256

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.63	7.57	7.67	462823	426061	8.6
Aroclor 1016 #2	8.97	8.92	9.02	184540	185679	0.6
Aroclor 1016 #3	9.40	9.35	9.45	236440	221982	6.5
Aroclor 1016 #4	9.84	9.79	9.89	400905	375799	6.7
Aroclor 1016 #5	10.62	10.57	10.67	313323	274859	14.0
Aroclor 1260 #1	12.38	12.32	12.42	590348	552718	6.8
Aroclor 1260 #2	13.54	13.50	13.60	736768	643074	14.6
Aroclor 1260 #3	14.17	14.12	14.22	374905	349158	7.4
Aroclor 1260 #4	14.72	14.68	14.78	984285	934005	5.4
Aroclor 1260 #5	15.32	15.27	15.37	372915	432200	13.7

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 Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

GC Column: RTX-PEST 2 ID: 0.32(mm) Init. Calib Date(s): 09/11/01 09/11/01

Client Sample No.(PIBLK): PIBLKCY Date Analyzed : 09/12/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 0959

Client Sample No.: AR1660L3CQ Date Analyzed : 09/12/01

Lab Sample ID : 5-210-7 Time Analyzed : 1026

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.98	7.93	8.03	494813	395781	25.0*
Aroclor 1016 #2	8.51	8.46	8.56	273280	260669	4.8
Aroclor 1016 #3	9.54	9.50	9.60	305055	236153	29.2*
Aroclor 1016 #4	9.79	9.75	9.85	254023	199746	27.2*
Aroclor 1016 #5	10.55	10.52	10.62	387545	300288	29.1*
Aroclor 1260 #1	13.31	13.27	13.37	742915	557412	33.3*
Aroclor 1260 #2	13.62	13.58	13.68	662548	501099	32.2*
Aroclor 1260 #3	14.12	14.08	14.18	491603	408247	20.4*
Aroclor 1260 #4	14.64	14.60	14.70	483738	357710	35.2*
Aroclor 1260 #5	15.07	15.04	15.14	966270	831678	16.2*

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

FORM VII PCB

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

GC Column: RTX-PEST ID: 0.32(mm) Init. Calib Date(s): 09/11/01 09/11/01

Client Sample No.(PIBLK): PIBLKCY Date Analyzed : 09/12/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 0959

Client Sample No.: AR1660L3CQ Date Analyzed : 09/12/01

Lab Sample ID : 5-210-7 Time Analyzed : 1026

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.62	7.57	7.67	543035	426061	27.5*
Aroclor 1016 #2	8.99	8.92	9.02	224930	185679	21.1*
Aroclor 1016 #3	9.40	9.35	9.45	275025	221982	23.9*
Aroclor 1016 #4	9.84	9.79	9.89	470138	375799	25.1*
Aroclor 1016 #5	10.62	10.57	10.67	376395	274859	36.9*
Aroclor 1260 #1	12.37	12.32	12.42	702808	552718	27.2*
Aroclor 1260 #2	13.54	13.50	13.60	926583	643074	44.1*
Aroclor 1260 #3	14.16	14.12	14.22	484378	349158	38.7*
Aroclor 1260 #4	14.72	14.68	14.78	1251085	934005	33.9*
Aroclor 1260 #5	15.32	15.27	15.37	411228	432200	4.9

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 Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

GC Column: RTX-PEST 2 ID: 0.32(mm) Init. Calib Date(s): 09/11/01 09/11/01

Client Sample No.(PIBLK): PIBLKCY Date Analyzed : 09/12/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 0959

Client Sample No.: AR1660L3CR Date Analyzed : 09/12/01

Lab Sample ID : 5-210-7 Time Analyzed : 1052

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.98	7.93	8.03	409468	395781	3.5
Aroclor 1016 #2	8.51	8.46	8.56	231438	260669	11.2
Aroclor 1016 #3	9.54	9.50	9.60	244410	236153	3.5
Aroclor 1016 #4	9.79	9.75	9.85	208468	199746	4.4
Aroclor 1016 #5	10.56	10.52	10.62	314945	300288	4.9
Aroclor 1260 #1	13.32	13.27	13.37	588088	557412	5.5
Aroclor 1260 #2	13.62	13.58	13.68	519060	501099	3.6
Aroclor 1260 #3	14.12	14.08	14.18	400385	408247	1.9
Aroclor 1260 #4	14.64	14.60	14.70	379390	357710	6.1
Aroclor 1260 #5	15.07	15.04	15.14	764545	831678	8.1

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 Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

GC Column: RTX-PEST ID: 0.32(mm) Init. Calib Date(s): 09/11/01 09/11/01

Client Sample No.(PIBLK): PIBLKCY Date Analyzed : 09/12/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 0959

Client Sample No.: AR1660L3CR Date Analyzed : 09/12/01

Lab Sample ID : 5-210-7 Time Analyzed : 1052

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.63	7.57	7.67	438503	426061	2.9
Aroclor 1016 #2	8.98	8.92	9.02	176090	185679	5.2
Aroclor 1016 #3	9.40	9.35	9.45	226808	221982	2.2
Aroclor 1016 #4	9.84	9.79	9.89	380823	375799	1.3
Aroclor 1016 #5	10.62	10.57	10.67	301008	274859	9.5
Aroclor 1260 #1	12.37	12.32	12.42	558878	552718	1.1
Aroclor 1260 #2	13.54	13.50	13.60	702900	643074	9.3
Aroclor 1260 #3	14.16	14.12	14.22	363825	349158	4.2
Aroclor 1260 #4	14.72	14.68	14.78	956413	934005	2.4
Aroclor 1260 #5	15.32	15.27	15.37	352640	432200	18.4*

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

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

GC Column: RTX-PEST 2 ID: 0.32(mm) Init. Calib Date(s): 09/11/01 09/11/01

Client Sample No.(PIBLK): PIBLKCZ Date Analyzed : 09/12/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1622

Client Sample No.: AR1660L3CS Date Analyzed : 09/12/01

Lab Sample ID : 5-210-7 Time Analyzed : 1649

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.98	7.93	8.03	467078	395781	18.0*
Aroclor 1016 #2	8.50	8.46	8.56	261245	260669	0.2
Aroclor 1016 #3	9.54	9.50	9.60	284135	236153	20.3*
Aroclor 1016 #4	9.79	9.75	9.85	240408	199746	20.4*
Aroclor 1016 #5	10.55	10.52	10.62	365568	300288	21.7*
Aroclor 1260 #1	13.31	13.27	13.37	690450	557412	23.9*
Aroclor 1260 #2	13.62	13.58	13.68	613943	501099	22.5*
Aroclor 1260 #3	14.12	14.08	14.18	461915	408247	13.1
Aroclor 1260 #4	14.63	14.60	14.70	448080	357710	25.3*
Aroclor 1260 #5	15.06	15.04	15.14	903503	831678	8.6

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 Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

GC Column: RTX-PEST ID: 0.32(mm) Init. Calib Date(s): 09/11/01 09/11/01

Client Sample No.(PIBLK): PIBLKCZ Date Analyzed : 09/12/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1622

Client Sample No.: AR1660L3CS Date Analyzed : 09/12/01

Lab Sample ID : 5-210-7 Time Analyzed : 1649

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.62	7.57	7.67	510478	426061	19.8*
Aroclor 1016 #2	8.97	8.92	9.02	194320	185679	4.7
Aroclor 1016 #3	9.40	9.35	9.45	259008	221982	16.7*
Aroclor 1016 #4	9.83	9.79	9.89	445840	375799	18.6*
Aroclor 1016 #5	10.62	10.57	10.67	351765	274859	28.0*
Aroclor 1260 #1	12.37	12.32	12.42	657448	552718	18.9*
Aroclor 1260 #2	13.54	13.50	13.60	853510	643074	32.7*
Aroclor 1260 #3	14.16	14.12	14.22	438808	349158	25.7*
Aroclor 1260 #4	14.72	14.68	14.78	1153008	934005	23.4*
Aroclor 1260 #5	15.31	15.27	15.37	417845	432200	3.3

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

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

GC Column: RTX-PEST 2 ID: 0.32(mm) Init. Calib Date(s): 09/11/01 09/11/01

Client Sample No.(PIBLK): PIBLKCZ Date Analyzed : 09/12/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1622

Client Sample No.: AR1660L3CT Date Analyzed : 09/12/01

Lab Sample ID : 5-210-7 Time Analyzed : 1715

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.98	7.93	8.03	457333	395781	15.6*
Aroclor 1016 #2	8.51	8.46	8.56	248603	260669	4.6
Aroclor 1016 #3	9.54	9.50	9.60	280500	236153	18.8*
Aroclor 1016 #4	9.79	9.75	9.85	227040	199746	13.7
Aroclor 1016 #5	10.55	10.52	10.62	324775	300288	8.2
Aroclor 1260 #1	13.31	13.27	13.37	642283	557412	15.2*
Aroclor 1260 #2	13.62	13.58	13.68	569680	501099	13.7
Aroclor 1260 #3	14.12	14.08	14.18	457170	408247	12.0
Aroclor 1260 #4	14.64	14.60	14.70	433318	357710	21.1*
Aroclor 1260 #5	15.07	15.04	15.14	874038	831678	5.1

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 Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

GC Column: RTX-PEST ID: 0.32(mm) Init. Calib Date(s): 09/11/01 09/11/01

Client Sample No.(PIBLK): PIBLKCZ Date Analyzed : 09/12/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1622

Client Sample No.: AR1660L3CT Date Analyzed : 09/12/01

Lab Sample ID : 5-210-7 Time Analyzed : 1715

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.63	7.57	7.67	494568	426061	16.1*
Aroclor 1016 #2	8.98	8.92	9.02	194250	185679	4.6
Aroclor 1016 #3	9.40	9.35	9.45	247865	221982	11.7
Aroclor 1016 #4	9.84	9.79	9.89	423773	375799	12.8
Aroclor 1016 #5	10.62	10.57	10.67	303460	274859	10.4
Aroclor 1260 #1	12.37	12.32	12.42	625523	552718	13.2
Aroclor 1260 #2	13.54	13.50	13.60	723633	643074	12.5
Aroclor 1260 #3	14.16	14.12	14.22	426333	349158	22.1*
Aroclor 1260 #4	14.72	14.68	14.78	1067760	934005	14.3
Aroclor 1260 #5	15.32	15.27	15.37	387713	432200	10.3

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

8D
AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SAS No.: SDG No.: E02F5

GC Column: RTX-PEST 2 ID: 0.32(mm) Init. Calib. Date(s): 09/11/01

Instrument ID: HP_16A

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	RESCCI	5-171-7	09/11/01	1151	5.96	17.60
02	AR1221L3CI	5-420-6	09/11/01	1218	5.96	17.60
03	AR1232L3CI	5-422-6	09/11/01	1315	5.95	17.59
04	AR1242L1CI	5-11-7	09/11/01	1341	5.96	17.60
05	AR1242L2CI	5-10-7	09/11/01	1408	5.96	17.59
06	AR1242L3CI	5-9-7	09/11/01	1434	5.96	17.59
07	AR1242L4CI	5-8-7	09/11/01	1501	5.96	17.59
08	AR1242L5CI	5-7-7	09/11/01	1528	5.95	17.59
09	AR1248L3CI	5-424-6	09/11/01	1555	5.96	17.59
10	AR1254L1CI	5-6-7	09/11/01	1621	5.96	17.60
11	AR1254L2CI	5-5-7	09/11/01	1648	5.96	17.59
12	AR1254L3CI	5-4-7	09/11/01	1714	5.96	17.60
13	AR1254L4CI	5-3-7	09/11/01	1741	5.95	17.59
14	AR1254L5CI	5-2-7	09/11/01	1807	5.95	17.59
15	AR1660L1CI	5-212-7	09/11/01	1834	5.96	17.60
16	AR1660L2CI	5-211-7	09/11/01	1900	5.96	17.60
17	AR1660L3CN	5-210-7	09/11/01	1927	5.96	17.59
18	AR1660L4CI	5-209-7	09/11/01	1953	5.95	17.59
19	AR1660L5CI	5-208-7	09/11/01	2019	5.95	17.58
20	PIBLKCW	5-131-7	09/11/01	2046	5.96	17.59
21	PBLKSA	BL0815SA	09/11/01	2205	5.96	17.58
22	ELCS1	LC0815SA	09/11/01	2258	5.96	17.58
23	ELCS2	LD0815SA	09/11/01	2325	5.96	17.58
24	E02F5	47268.01	09/11/01	2351	5.95	17.57
25	E02F6	47268.02	09/12/01	0018	5.96	17.58
26	E02F7	47268.03	09/12/01	0044	5.96	17.58
27	E02F8	47268.04	09/12/01	0111	5.95	17.58
28	AR1660L3CO	5-210-7	09/12/01	0256	5.96	17.58
29	ZZZZZ	5-210-7	09/12/01	0323	5.96	17.58
30	PIBLKCX	5-131-7	09/12/01	0349	5.96	17.59
31	E02F9	47268.05	09/12/01	0416	5.95	17.58
32	E02G0	47268.06	09/12/01	0442	5.96	17.58
33	E02G1	47268.07	09/12/01	0508	5.95	17.58
34	E02G2	47268.08	09/12/01	0535	5.96	17.58
35	E02G3	47268.09	09/12/01	0601	5.95	17.58

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.: 29602 SAS No.: SDG No.: E02F5

GC Column: RTX-PEST 2 ID: 0.32(mm) Init. Calib. Date(s): 09/11/01

Instrument ID: HP_16A

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	E02G4	47268.10	09/12/01	0628	5.96	17.58
02	E02G5	47268.11	09/12/01	0654	5.96	17.58
03	E02G6	47268.12	09/12/01	0721	5.96	17.58
04	E02G6MS	47268.13MS	09/12/01	0747	5.96	17.58
05	E02G6MSD	47268.14MSD	09/12/01	0814	5.95	17.58
06	PIBLKCY	5-131-7	09/12/01	0959	5.96	17.58
07	AR1660L3CQ	5-210-7	09/12/01	1026	5.95	17.58
08	AR1660L3CR	5-210-7	09/12/01	1052	5.95	17.58
09	E02G7	47279.01	09/12/01	1119	5.95	17.57
10	E02G8	47279.02	09/12/01	1145	5.95	17.58
11	E02G9	47279.03	09/12/01	1212	5.95	17.57
12	E02H0	47279.04	09/12/01	1238	5.95	17.57
13	E02H1	47279.05	09/12/01	1305	5.95	17.57
14	E02H2	47279.06	09/12/01	1331	5.95	17.57
15	E02H3	47279.07	09/12/01	1357	5.95	17.57
16	E02H4	47279.08	09/12/01	1424	5.95	17.57
17	PIBLKCZ	5-131-7	09/12/01	1622	5.94	17.58
18	AR1660L3CS	5-210-7	09/12/01	1649	5.95	17.58
19	AR1660L3CT	5-210-7	09/12/01	1715	5.96	17.58
20						
21						
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26						
27						
28						
29						
30						
31						
32						
33						
34						
35						

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

8D
AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SAS No.: SDG No.: E02F5

GC Column: RTX-PEST ID: 0.32(mm) Init. Calib. Date(s): 09/11/01

Instrument ID: HP_16B

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	RESCCI	5-171-7	09/11/01	1151	5.96	16.96
02	AR1221L3CI	5-420-6	09/11/01	1218	5.97	16.96
03	AR1232L3CI	5-422-6	09/11/01	1315	5.97	16.96
04	AR1242L1CI	5-11-7	09/11/01	1341	5.98	16.97
05	AR1242L2CI	5-10-7	09/11/01	1408	5.97	16.96
06	AR1242L3CI	5-9-7	09/11/01	1434	5.97	16.96
07	AR1242L4CI	5-8-7	09/11/01	1501	5.97	16.96
08	AR1242L5CI	5-7-7	09/11/01	1528	5.96	16.95
09	AR1248L3CI	5-424-6	09/11/01	1555	5.97	16.96
10	AR1254L1CI	5-6-7	09/11/01	1621	5.98	16.96
11	AR1254L2CI	5-5-7	09/11/01	1648	5.97	16.96
12	AR1254L3CI	5-4-7	09/11/01	1714	5.97	16.96
13	AR1254L4CI	5-3-7	09/11/01	1741	5.96	16.95
14	AR1254L5CI	5-2-7	09/11/01	1807	5.96	16.95
15	AR1660L1CI	5-212-7	09/11/01	1834	5.98	16.96
16	AR1660L2CI	5-211-7	09/11/01	1900	5.98	16.96
17	AR1660L3CN	5-210-7	09/11/01	1927	5.97	16.95
18	AR1660L4CI	5-209-7	09/11/01	1953	5.97	16.95
19	AR1660L5CI	5-208-7	09/11/01	2019	5.96	16.95
20	PIBLKCW	5-131-7	09/11/01	2046	5.97	16.95
21	PBLKSA	BL0815SA	09/11/01	2205	5.97	16.95
22	ELCS1	LC0815SA	09/11/01	2258	5.97	16.95
23	ELCS2	LD0815SA	09/11/01	2325	5.97	16.95
24	E02F5	47268.01	09/11/01	2351	5.97	16.94
25	E02F6	47268.02	09/12/01	0018	5.97	16.95
26	E02F7	47268.03	09/12/01	0044	5.97	16.95
27	E02F8	47268.04	09/12/01	0111	5.97	16.95
28	AR1660L3CO	5-210-7	09/12/01	0256	5.97	16.95
29	ZZZZZ	5-210-7	09/12/01	0323	5.97	16.95
30	PIBLKCX	5-131-7	09/12/01	0349	5.97	16.95
31	E02F9	47268.05	09/12/01	0416	5.97	16.95
32	E02G0	47268.06	09/12/01	0442	5.97	16.95
33	E02G1	47268.07	09/12/01	0508	5.97	16.95
34	E02G2	47268.08	09/12/01	0535	5.97	16.95
35	E02G3	47268.09	09/12/01	0601	5.97	16.95

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.: 29602 SAS No.: SDG No.: E02F5

GC Column: RTX-PEST ID: 0.32(mm) Init. Calib. Date(s): 09/11/01

Instrument ID: HP_16B

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	E02G4	47268.10	09/12/01	0628	5.97	16.95
02	E02G5	47268.11	09/12/01	0654	5.97	16.95
03	E02G6	47268.12	09/12/01	0721	5.97	16.95
04	E02G6MS	47268.13MS	09/12/01	0747	5.97	16.95
05	E02G6MSD	47268.14MSD	09/12/01	0814	5.96	16.95
06	PIBLKCY	5-131-7	09/12/01	0959	5.97	16.95
07	AR1660L3CQ	5-210-7	09/12/01	1026	5.97	16.95
08	AR1660L3CR	5-210-7	09/12/01	1052	5.97	16.95
09	E02G7	47279.01	09/12/01	1119	5.97	16.95
10	E02G8	47279.02	09/12/01	1145	5.97	16.95
11	E02G9	47279.03	09/12/01	1212	5.97	16.94
12	E02H0	47279.04	09/12/01	1238	5.96	16.95
13	E02H1	47279.05	09/12/01	1305	5.96	16.95
14	E02H2	47279.06	09/12/01	1331	5.97	16.95
15	E02H3	47279.07	09/12/01	1357	5.96	16.94
16	E02H4	47279.08	09/12/01	1424	5.97	16.94
17	PIBLKCZ	5-131-7	09/12/01	1622	5.97	16.95
18	AR1660L3CS	5-210-7	09/12/01	1649	5.97	16.95
19	AR1660L3CT	5-210-7	09/12/01	1715	5.97	16.95
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						

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

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

ELCS1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Lab Sample ID: LC0815SA Date(s) Analyzed: 09/11/01 09/11/01

Instrument ID (1): HP_16A Instrument ID (2): HP_16B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	11.14	11.09	11.19	103		
Aroclor-1254	2	11.56	11.52	11.62	117		
	3	12.52	12.49	12.59	102		
COLUMN 1	4	12.88	12.84	12.94	105		
	5	13.32	13.29	13.39	108	110	
	1	10.62	10.56	10.66	101		
	2	11.19	11.14	11.24	97.1		
	3	11.78	11.73	11.83	166		
COLUMN 2	4	12.38	12.33	12.43	107		
	5	12.97	12.93	13.03	114	120	9.1
	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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10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

ELCS2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Lab Sample ID: LD0815SA Date(s) Analyzed: 09/11/01 09/11/01

Instrument ID (1): HP_16A Instrument ID (2): HP_16B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254 COLUMN 1	1	11.14	11.09	11.19	114		
	2	11.56	11.52	11.62	123		
	3	12.52	12.49	12.59	108		
	4	12.88	12.84	12.94	112		
	5	13.32	13.29	13.39	114	110	
COLUMN 2	1	10.62	10.56	10.66	108		
	2	11.19	11.14	11.24	103		
	3	11.78	11.73	11.83	178		
	4	12.38	12.33	12.43	115		
	5	12.97	12.93	13.03	120	120	9.1
_____ COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						
_____ COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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FORM X PCB

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E02G3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Lab Sample ID: 47268.09 Date(s) Analyzed: 09/12/01 09/12/01

Instrument ID (1): HP_16A Instrument ID (2): HP_16B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1						
Aroclor-1242	2	7.98	7.94	8.04	54.1		
	3	9.40	9.27	9.37	19.7		
COLUMN 1	4	9.70	9.66	9.76	76.7		
	5	10.27	10.23	10.33	103	63	
	1	7.64	7.57	7.67	34.7		
	2	8.08	8.02	8.12	8.2		
	3						
COLUMN 2	4	9.42	9.35	9.45	116		
	5	10.35	10.28	10.38	39.7	50	26.0
	1	11.13	11.09	11.19	27.7		
Aroclor-1254	2						
	3	12.51	12.49	12.59	15.1		
COLUMN 1	4	12.88	12.84	12.94	14.4		
	5	13.31	13.29	13.39	18.9	19	
	1	10.64	10.56	10.66	37.5		
	2	11.26	11.14	11.24	144		
	3	11.80	11.73	11.83	57.6		
COLUMN 2	4						
	5	12.97	12.93	13.03	24.8	66	247
	1	13.31	13.27	13.37	12.1		
Aroclor-1260	2						
	3	14.12	14.08	14.18	28.5		
COLUMN 1	4	14.63	14.60	14.70	19.0		
	5	15.11	15.04	15.14	8.8	17	
	1						
	2	13.55	13.50	13.60	13.7		
	3	14.16	14.12	14.22	17.7		
COLUMN 2	4						
	5	15.31	15.27	15.37	31.4	21	23.5

At least 3 peaks are required for identification of multicomponent analytes

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10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E02G6MS

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Lab Sample ID: 47268.13MS Date(s) Analyzed: 09/12/01 09/12/01

Instrument ID (1): HP_16A Instrument ID (2): HP_16B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	11.12	11.09	11.19	1540		
Aroclor-1254	2	11.53	11.52	11.62	1650		
	3	12.49	12.49	12.59	1290		
COLUMN 1	4	12.87	12.84	12.94	1190		
	5	13.29	13.29	13.39	1170	1400	
	1	10.61	10.56	10.66	1380		
	2	11.18	11.14	11.24	1340		
	3	11.76	11.73	11.83	1410		
COLUMN 2	4	12.37	12.33	12.43	1160		
	5	12.96	12.93	13.03	1210	1300	7.7
	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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10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E02G6MSD

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Lab Sample ID: 47268.14MSD Date(s) Analyzed: 09/12/01 09/12/01

Instrument ID (1): HP_16A Instrument ID (2): HP_16B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	11.12	11.09	11.19	1620		
Aroclor-1254	2	11.53	11.52	11.62	1780		
	3	12.49	12.49	12.59	1380		
COLUMN 1	4	12.87	12.84	12.94	1280		
	5	13.30	13.29	13.39	1270	1500	
	1	10.61	10.56	10.66	1480		
	2	11.18	11.14	11.24	1440		
	3	11.76	11.73	11.83	1520		
COLUMN 2	4	12.37	12.33	12.43	1280		
	5	12.96	12.93	13.03	1310	1400	7.1
	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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10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E02G9

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Lab Sample ID: 47279.03 Date(s) Analyzed: 09/12/01 09/12/01

Instrument ID (1): HP_16A Instrument ID (2): HP_16B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1						
Aroclor-1242	2	7.98	7.94	8.04	10.8		
	3	9.40	9.27	9.37	8.1		
COLUMN 1	4	9.69	9.66	9.76	52.9		
	5	10.25	10.23	10.33	54.4	32	
	1	7.62	7.57	7.67	5.6		
	2						
	3						
COLUMN 2	4	9.40	9.35	9.45	40.4		
	5	10.34	10.28	10.38	22.9	23	39.1
	1	11.12	11.09	11.19	25.1		
Aroclor-1254	2						
	3	12.49	12.49	12.59	19.5		
COLUMN 1	4	12.87	12.84	12.94	15.9		
	5	13.29	13.29	13.39	24.5	21	
	1	10.62	10.56	10.66	26.6		
	2	11.18	11.14	11.24	15.2		
	3						
COLUMN 2	4	12.37	12.33	12.43	12.0		
	5	12.96	12.93	13.03	19.5	18	16.7
	1	13.40	13.27	13.37	4.3		
Aroclor-1260	2	13.66	13.58	13.68	3.5		
	3	14.12	14.08	14.18	11.2		
COLUMN 1	4	14.62	14.60	14.70	7.8		
	5	15.11	15.04	15.14	3.4	6.0	
	1	12.37	12.32	12.42	6.9		
	2	13.53	13.50	13.60	15.1		
	3	14.16	14.12	14.22	5.4		
COLUMN 2	4						
	5	15.30	15.27	15.37	8.6	9.0	50.0

At least 3 peaks are required for identification of multicomponent analytes

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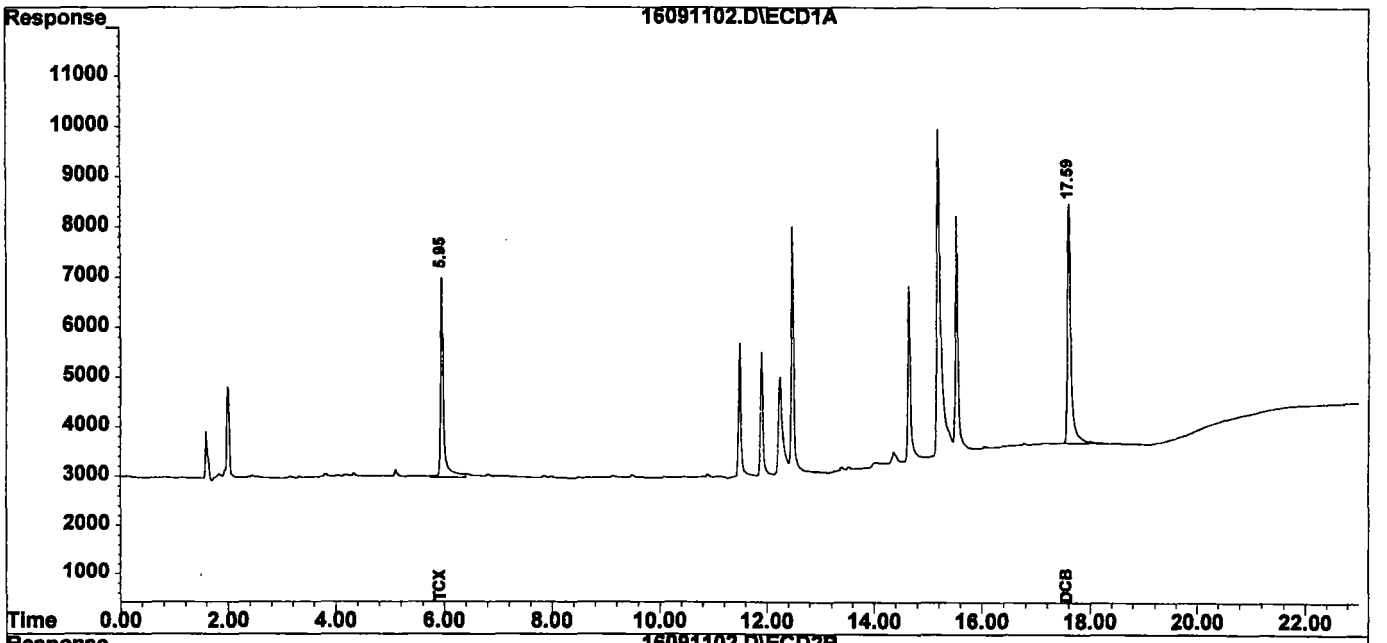
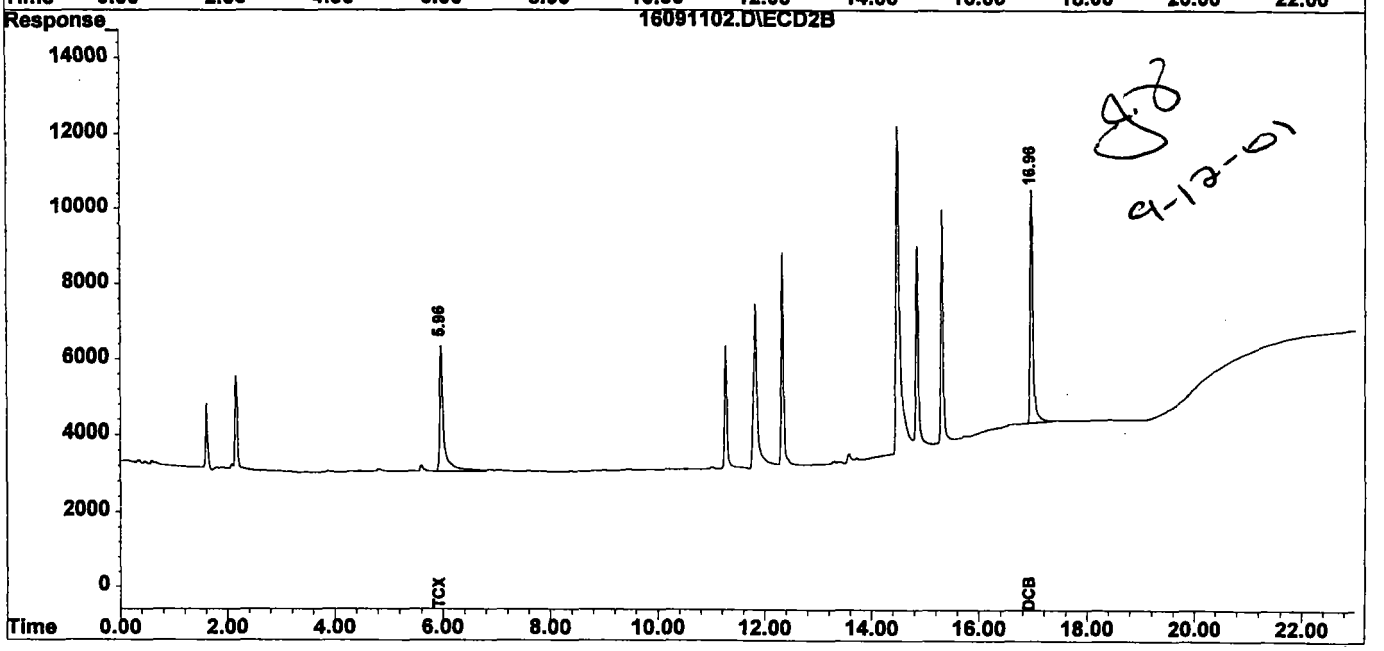
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091102.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091102.D\ECD2B.CH
Acq On : 11 Sep 2001 11:51 Operator: DDC
Sample : RESCCI Inst : HP_16
Misc : 5-171-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 10:56 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9-12-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091102.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091102.D\ECD2B.CH
Acq On : 11 Sep 2001 11:51 Operator: DDC
Sample : RESCCI Inst : HP_16
Misc : 5-171-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 10:56 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.96	5.96	157415	170412	22.7	21.7
22)	S DCB	17.60	16.96	221193	227187	19.4	20.1
	Target Compounds:						

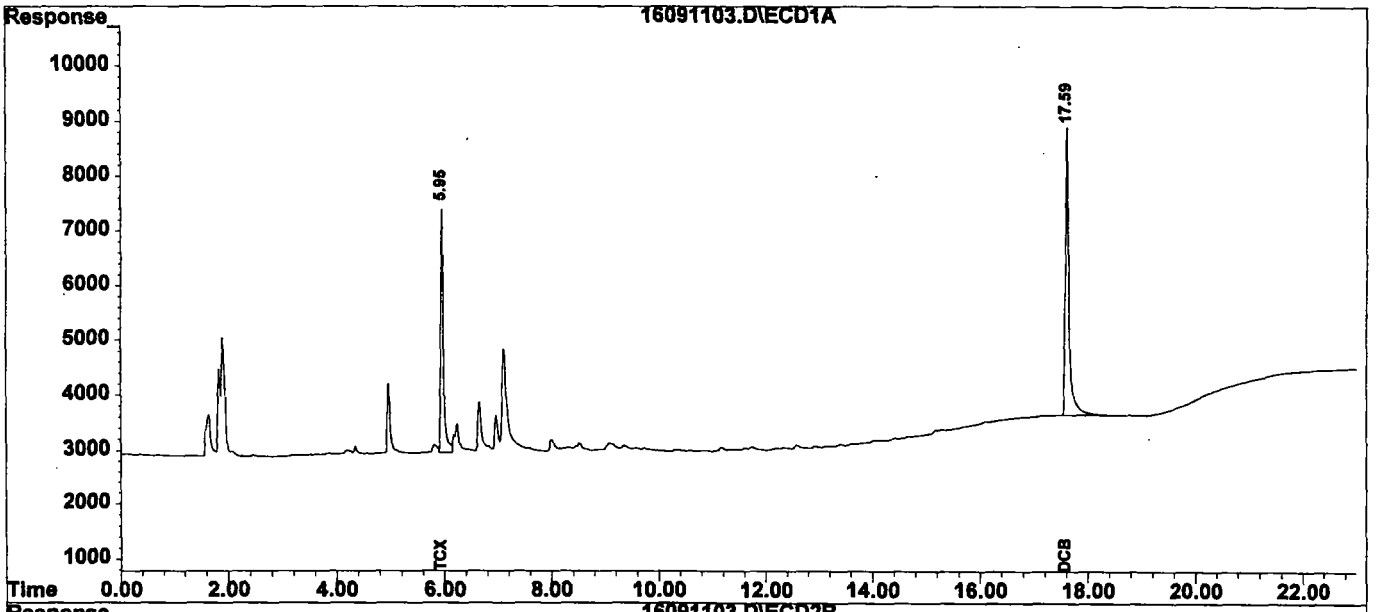
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

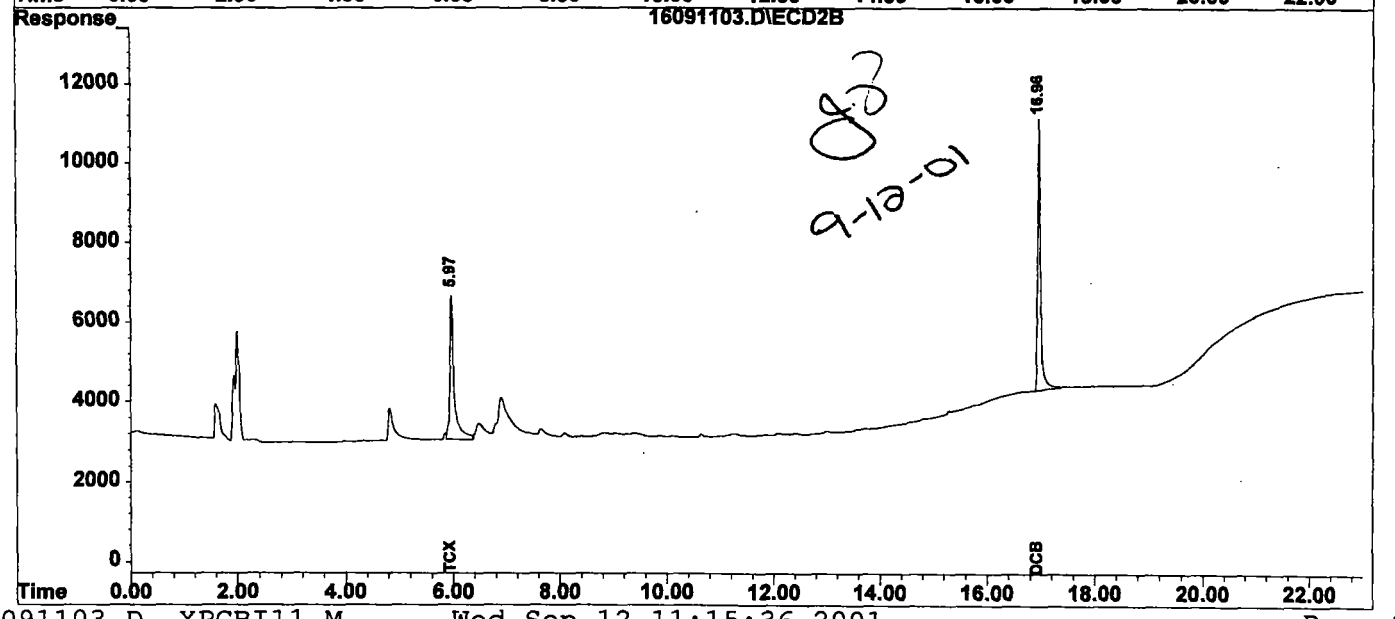
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091103.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091103.D\ECD2B.CH
Acq On : 11 Sep 2001 12:18 Operator: DDC
Sample : AR1221L3CI Inst : HP_16
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 10:56 2001 Quant Results File: XPCBI11.RES
Quant Time: Sep 12 10:59 2001 Quant Results File: xspcbi11.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001

Multi-Component Method : f:\hpchem\hp\16\data\09_11_01\xspcbi11.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





gd
9-12-01

Chromatographic Report

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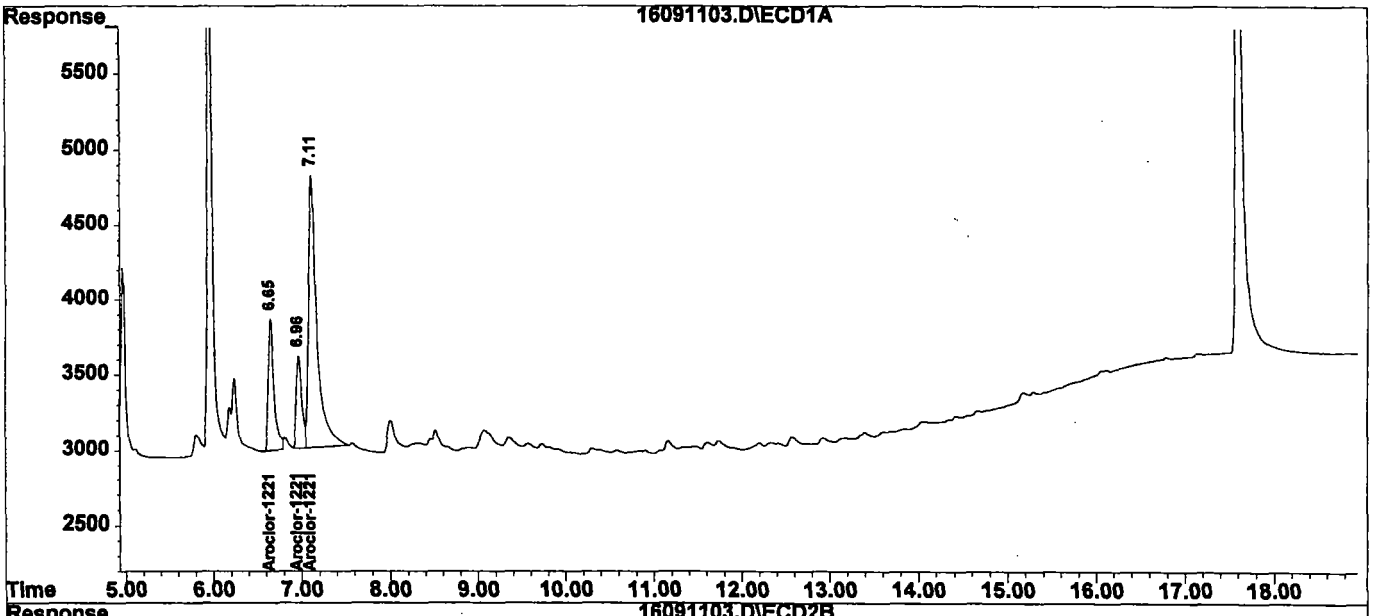
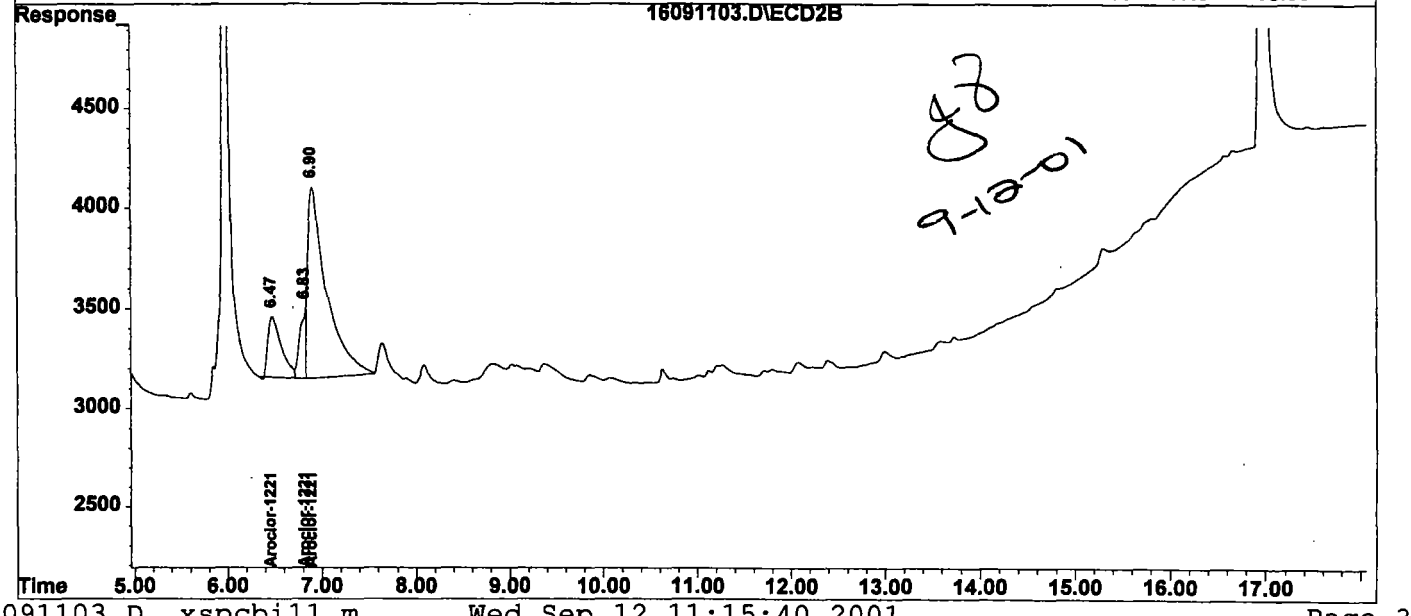
Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091103.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091103.D\ECD2B.CH
Acq On    : 11 Sep 2001  12:18                        Operator: DDC
Sample    : AR1221L3CI                                Inst    : HP_16
Misc      : 5-420-6                                   Dilution: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e
Quant Time: Sep 12 10:59 2001  Quant Results File: xspcbi11.RES
Quant Time: Sep 12 10:59 2001  Quant Results File: xspcbi11.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-ICAL Path  : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update      : Wed Sep 05 14:36:59 2001

Multi-Component Method : f:\hpchem\hp\16\data\09_11_01\xspcbi11.m
Title                  : PCB/TOXAPHENE
Last Update            : Fri May 18 09:02:00 2001
Volume Inj.      : 0.5uL
Signal #1 Phase : RTX-PEST 2        Signal #2 Phase: RTX-PEST
Signal #1 Info  : .32               Signal #2 Info : .32
Signal #1 Inst  : HP_16A            Signal #2 Inst : HP_16B
```





8
9-12-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091103.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091103.D\ECD2B.CH
Acq On : 11 Sep 2001 12:18 Operator: DDC
Sample : AR1221L3CI Inst : HP_16
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 10:56 2001 Quant Results File: XPCBI11.RES
Multi Time: Sep 12 10:59 2001 Quant Results File: xspcbi11.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001

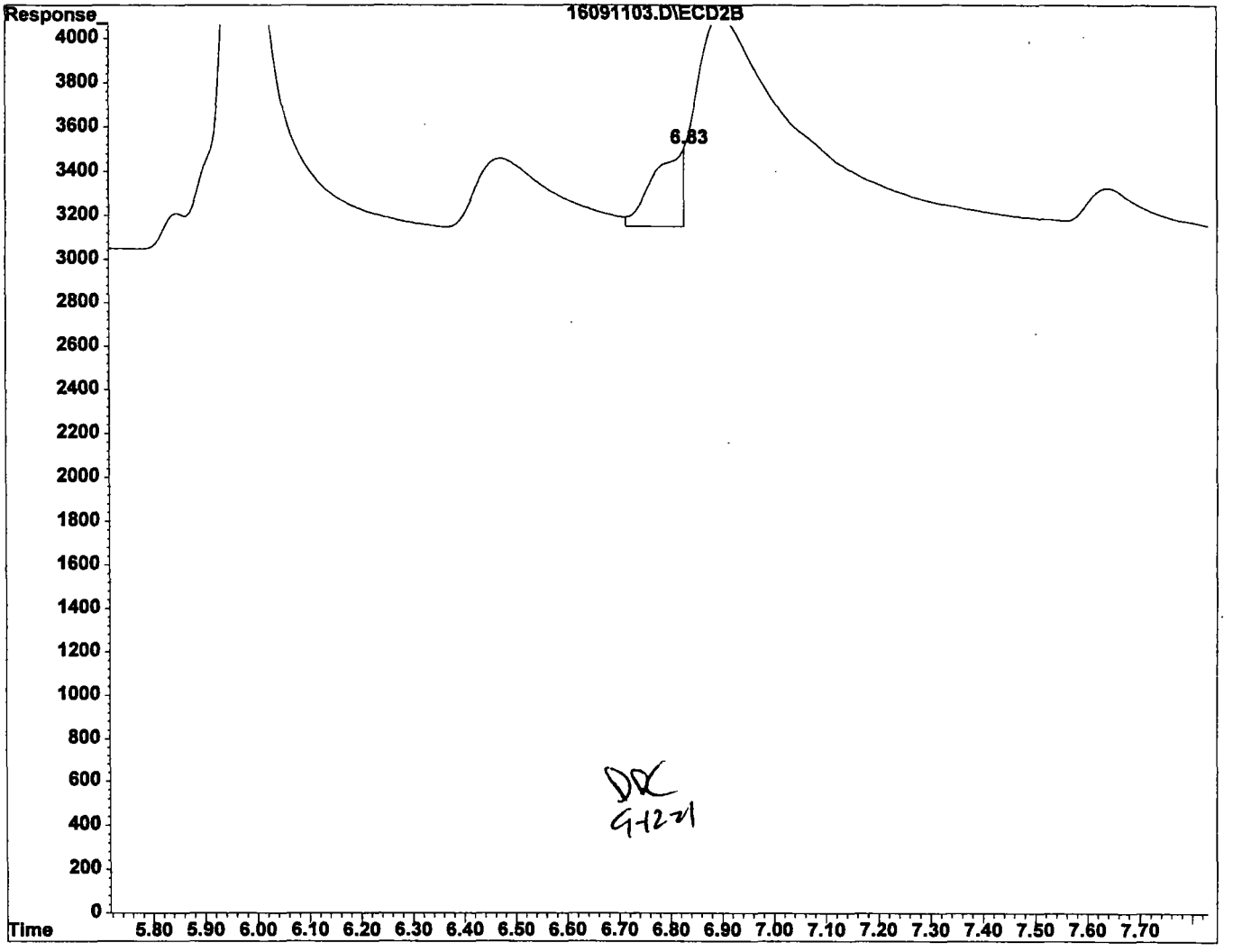
Multi-Component Method : f:\hpchem\hp\16\data\09_11_01\xspcbi11.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.96	5.97	158926	198579	22.9	25.3
22)	S DCB	17.60	16.96	246612	255803	21.6	22.7
	Target Compounds:						
	Multi-Component Compounds:						
2)	L2 Aroclor-1221	6.65f	6.48	39322	29982	419.4	398.3 DDC
3)	L2 Aroclor-1221 {2}	6.97f	6.83f	26155	14392	409.7	450.9m 9-12-01
4)	L2 Aroclor-1221 {3}	7.11f	6.90	119674	132264	437.6	431.9m
	Sum Aroclor-1221			185151	176638	1266.6	1281.2
	Average Aroclor-1221					422.213	427.053

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
16091103.D xspcbi11.m Wed Sep 12 11:15:33 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\09_11_01\16091103.D
Date Acquired: 11 Sep 2001 12:18
Inst: HP_16 Operator ID: DDC
Name: AR1221L3CI
Misc: 5-420-6
Method: f:\hpchem\hp\16\data\09_11_01\xspcbi11.m
Title:
Quant Time: Sep 12 10:59 2001 Quant Results File: xspcbi11.RES



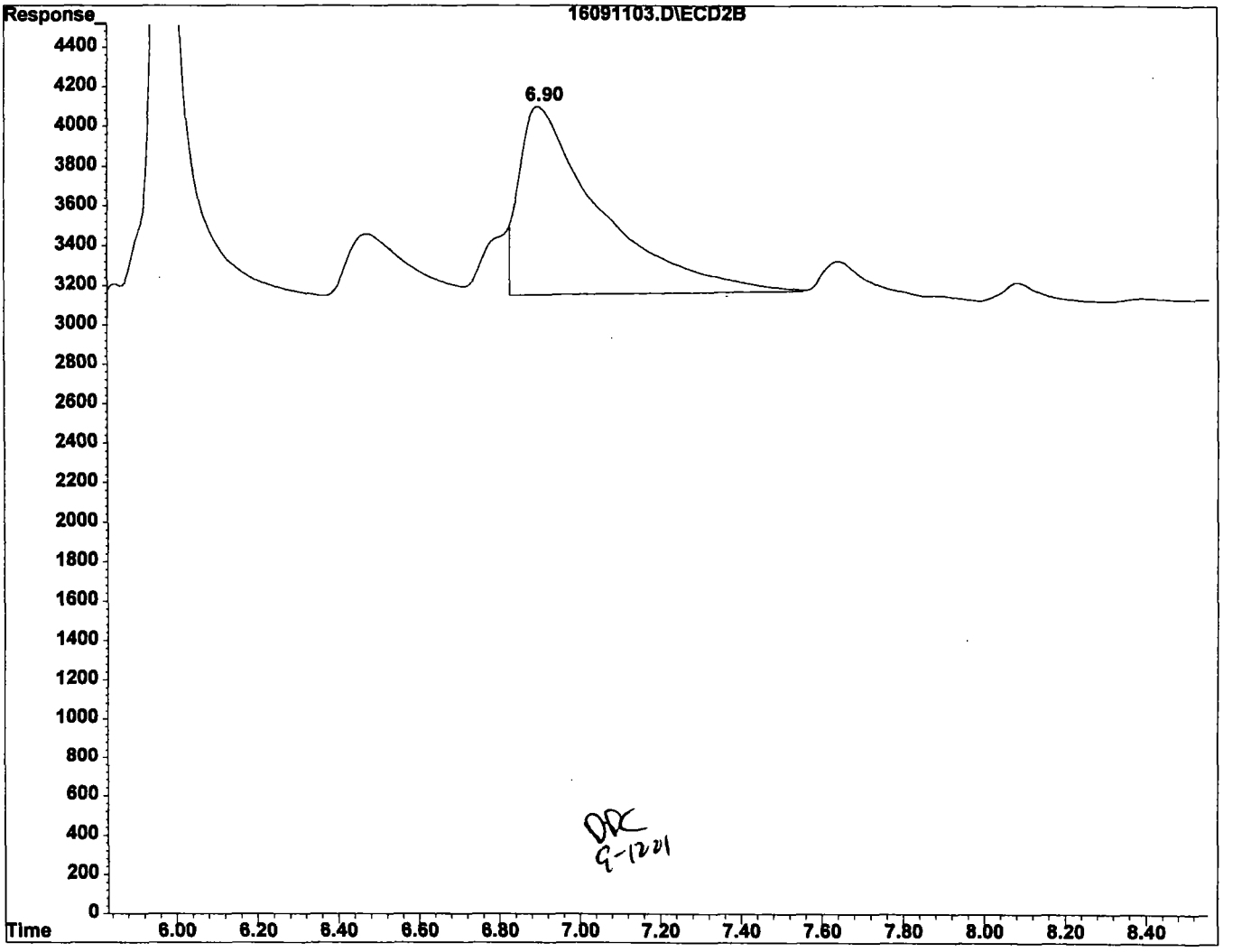
Aroclor-1221 {2} #2 6.83min area: 14392 m

Integration Time Range: 6.72 - 6.83

F:\HPCHEM\HP\16\DATA\09_11_01\16091103.D
Report generated: Wed Sep 12 11:14:28 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\09_11_01\16091103.D
Date Acquired: 11 Sep 2001 12:18
Inst: HP_16 Operator ID: DDC
Name: AR1221L3CI
Misc: 5-420-6
Method: f:\hpchem\hp\16\data\09_11_01\xspcbi11.m
Title:
Quant Time: Sep 12 10:59 2001 Quant Results File: xspcbi11.RES



Aroclor-1221 {3} #2 6.90min area: 132264 m

Integration Time Range: 6.83 - 7.56

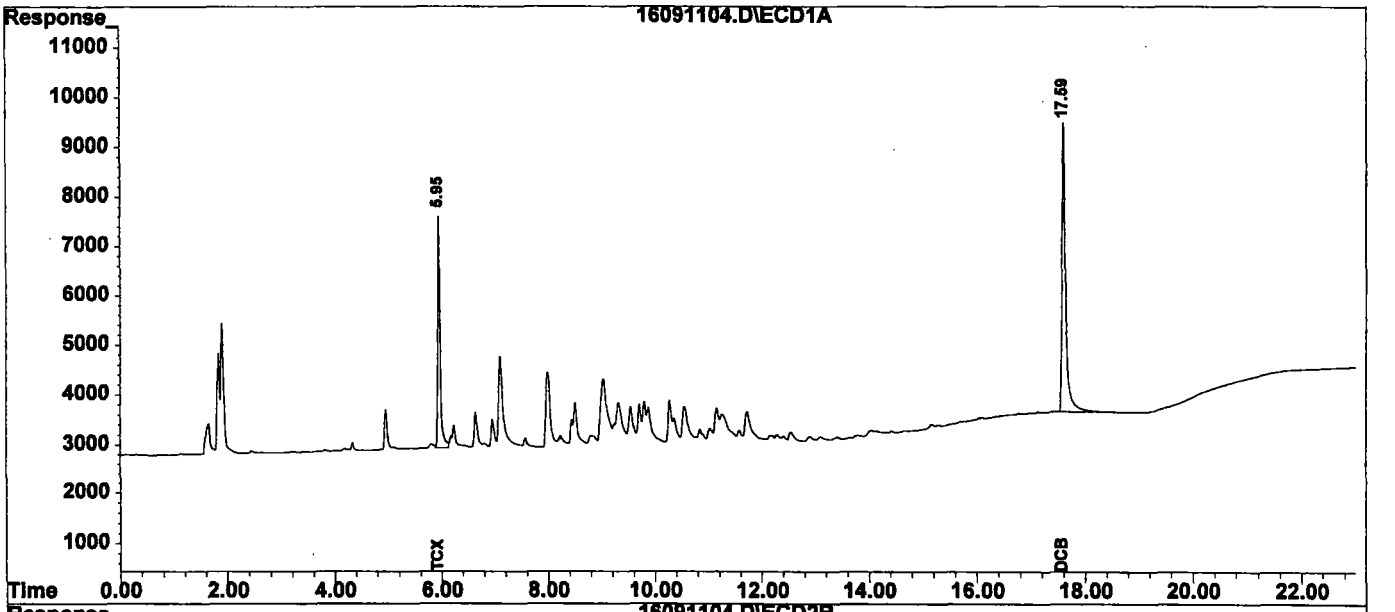
F:\HPCHEM\HP\16\DATA\09_11_01\16091103.D
Report generated: Wed Sep 12 11:14:29 2001

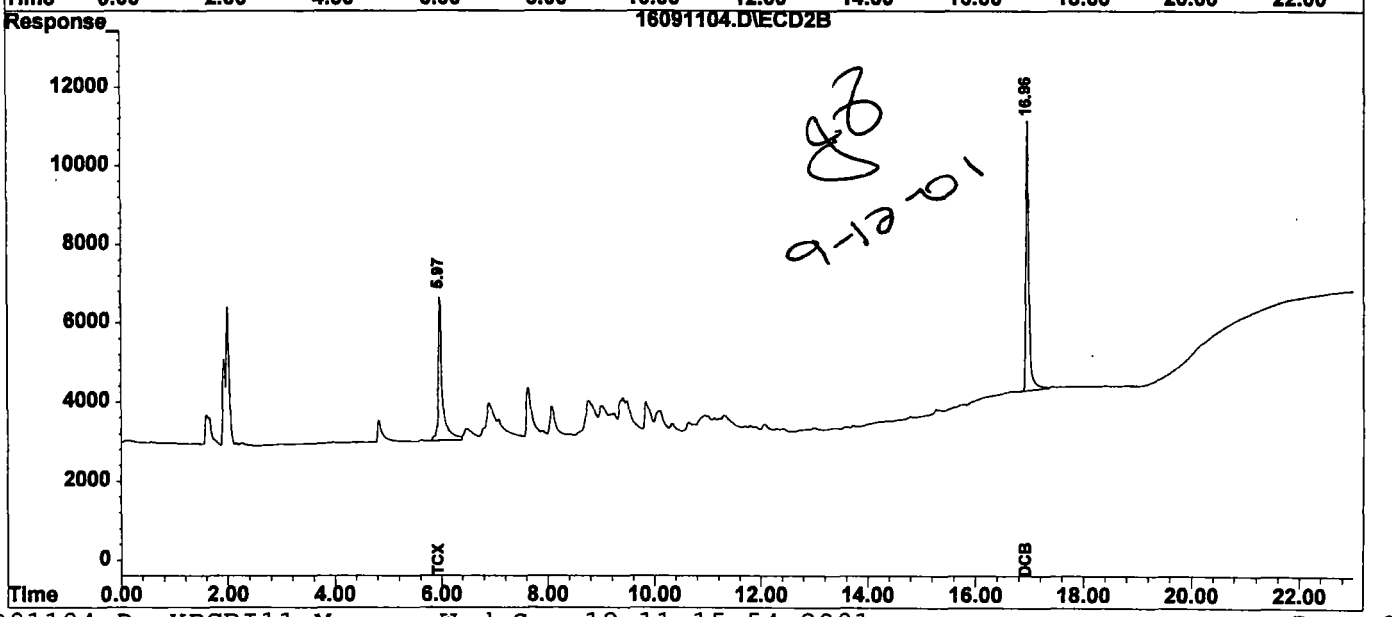
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091104.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091104.D\ECD2B.CH
Acq On : 11 Sep 2001 13:15 Operator: DDC
Sample : AR1232L3CI Inst : HP_16
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 10:59 2001 Quant Results File: XPCBI11.RES
Quant Time: Sep 12 11:00 2001 Quant Results File: xspcbi11.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001

Multi-Component Method : f:\hpchem\hp\16\data\09_11_01\xspcbi11.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





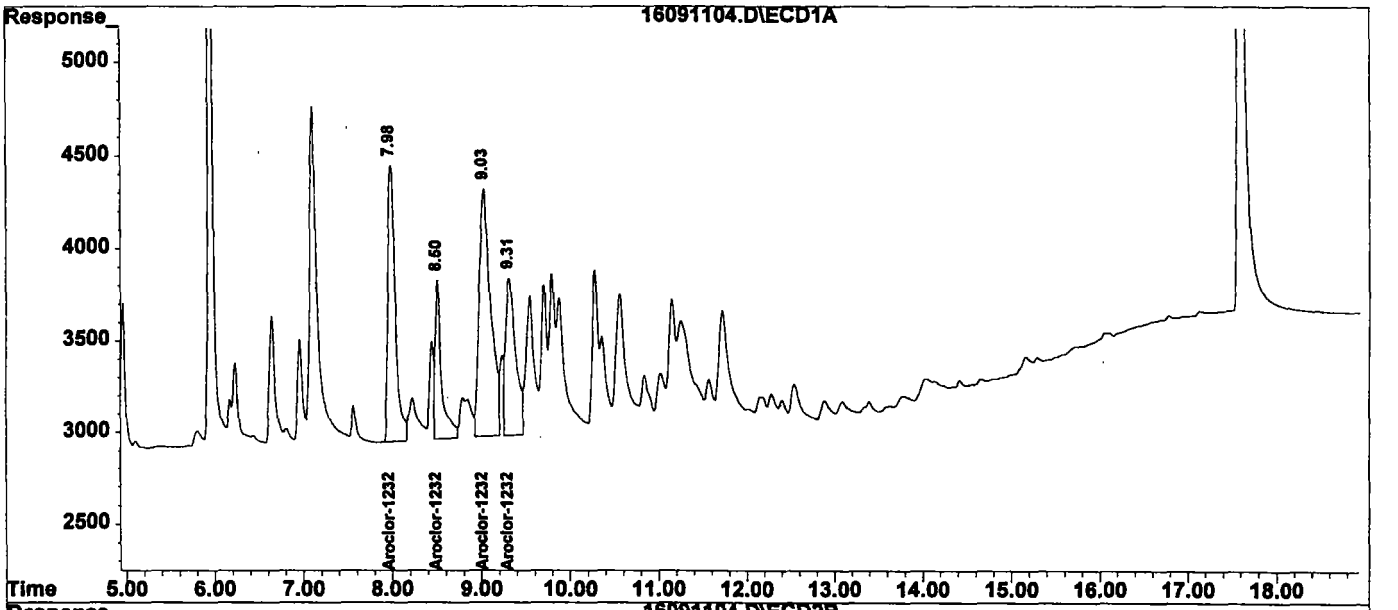
DB
9-12-01

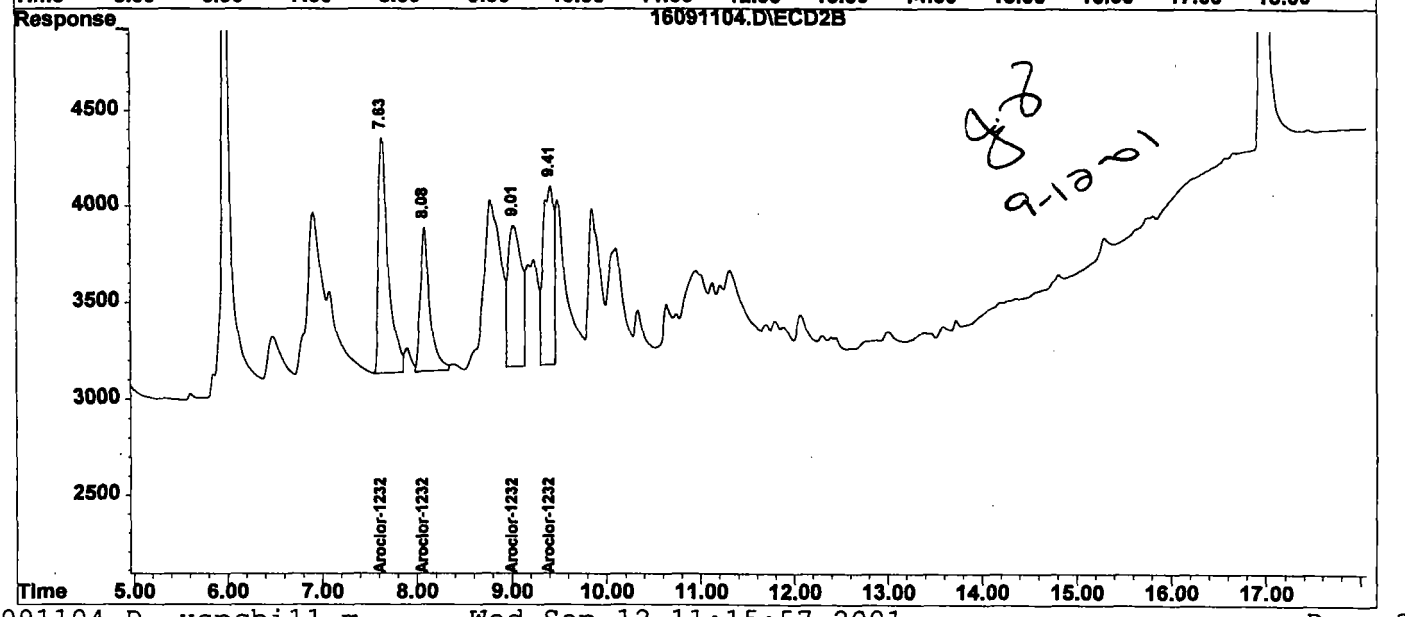
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091104.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091104.D\ECD2B.CH
Acq On : 11 Sep 2001 13:15 Operator: DDC
Sample : AR1232L3CI Inst : HP_16
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 12 11:00 2001 Quant Results File: xspcbi11.RES
Quant Time: Sep 12 11:00 2001 Quant Results File: xspcbi11.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001

Multi-Component Method : f:\hpchem\hp\16\data\09_11_01\xspcbi11.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9-12-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091104.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091104.D\ECD2B.CH
Acq On : 11 Sep 2001 13:15 Operator: DDC
Sample : AR1232L3CI Inst : HP_16
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 10:59 2001 Quant Results File: XPCBI11.RES
Multi Time: Sep 12 11:00 2001 Quant Results File: xspcbi11.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001

Multi-Component Method : f:\hpchem\hp\16\data\09_11_01\xspcbi11.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.95	5.97	153667	193861	22.2	24.7	
22)	S DCB	17.59	16.96	263730	256158	23.1	22.7	
	Target Compounds:							
	Multi-Component Compounds:							
5)	L3 Aroclor-1232	7.98f	7.63	86896	88081	607.8	631.2	
6)	L3 Aroclor-1232 {2}	8.51f	8.08	45321	50737	728.7	575.8	
7)	L3 Aroclor-1232 {3}	9.03	9.02	120079	71725	636.5	765.6	
8)	L3 Aroclor-1232 {4}	9.31	9.41	69097	71877	576.0	1218.8	#
	Sum Aroclor-1232			321394	282420	2549.0	3191.4	
	Average Aroclor-1232					637.253	797.851	

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

Response Factor Report HP_16

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Calibration Files
L1 =16091105.D L2 =16091106.D L3 =16091107.D
L4 =16091108.D L5 =16091109.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
7) Aroclor-1242	229.1	194.1	177.2	169.0	164.5	186.8	14.03
8) Aroclor-1242 {2}	399.6	348.5	327.5	304.7	292.0	334.5	12.66
9) Aroclor-1242 {3}	310.4	284.8	270.3	310.6	290.9	293.4	5.91
10) Aroclor-1242 {4}	175.0	157.9	152.1	143.5	137.6	153.2	9.44
11) Aroclor-1242 {5}	176.6	161.1	159.8	155.9	159.9	162.7	4.94

Signal #2 Calibration Files
L1 =16091105.D L2 =16091106.D L3 =16091107.D
L4 =16091108.D L5 =16091109.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
30) Aroclor-1242 #2	417.7	383.2	361.0	346.5	342.3	370.1	8.38
31) Aroclor-1242 {2} #2	259.8	247.9	243.6	256.2	267.2	254.9	3.69
32) Aroclor-1242 {3} #2	386.0	335.6	316.1	280.0	266.6	316.9	14.99
33) Aroclor-1242 {4} #2	233.9	204.5	181.1	168.6	162.6	190.1	15.40
34) Aroclor-1242 {5} #2	106.8	83.7	102.9	109.3	111.0	102.7	10.78

(#) = Out of Range

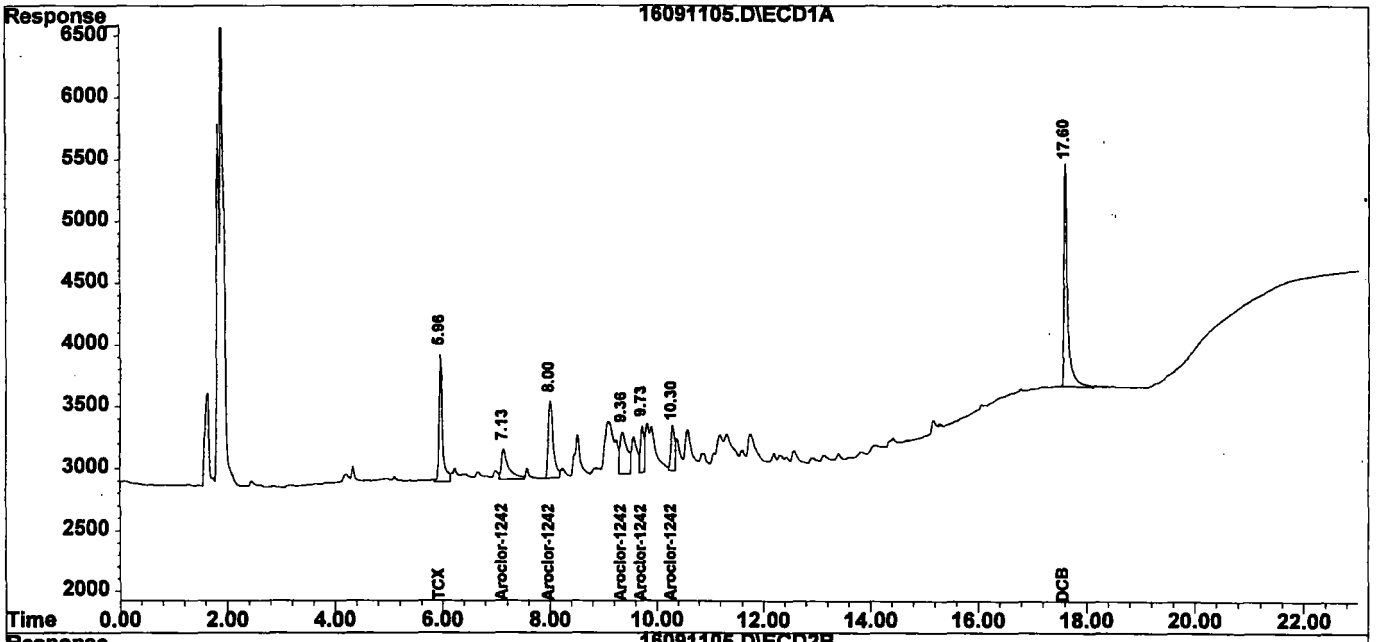
XPCBI11.M Tue Sep 11 19:09:39 2001

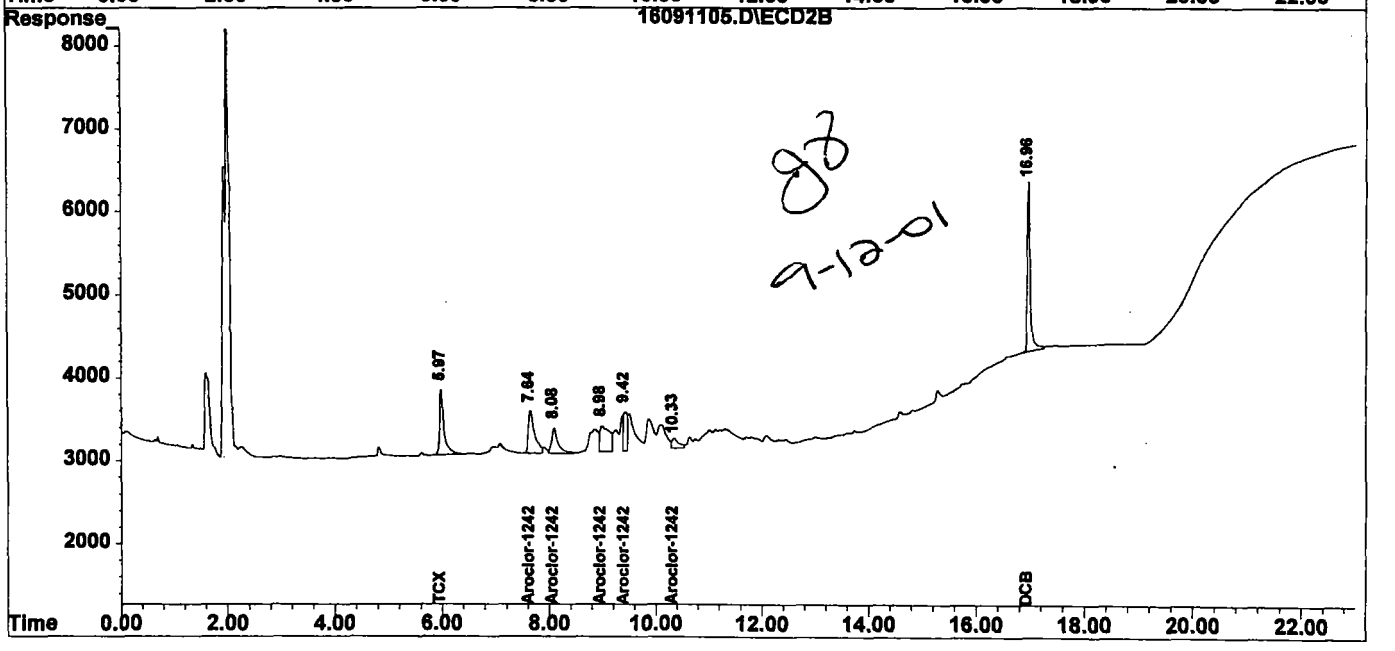
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091105.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091105.D\ECD2B.CH
Acq On : 11 Sep 2001 13:41 Operator: DDC
Sample : AR1242L1CI Inst : HP_16
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 11 19:08 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





gd
9-12-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091105.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091105.D\ECD2B.CH
Acq On : 11 Sep 2001 13:41 Operator: DDC
Sample : AR1242L1CI Inst : HP_16
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 11 19:08 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

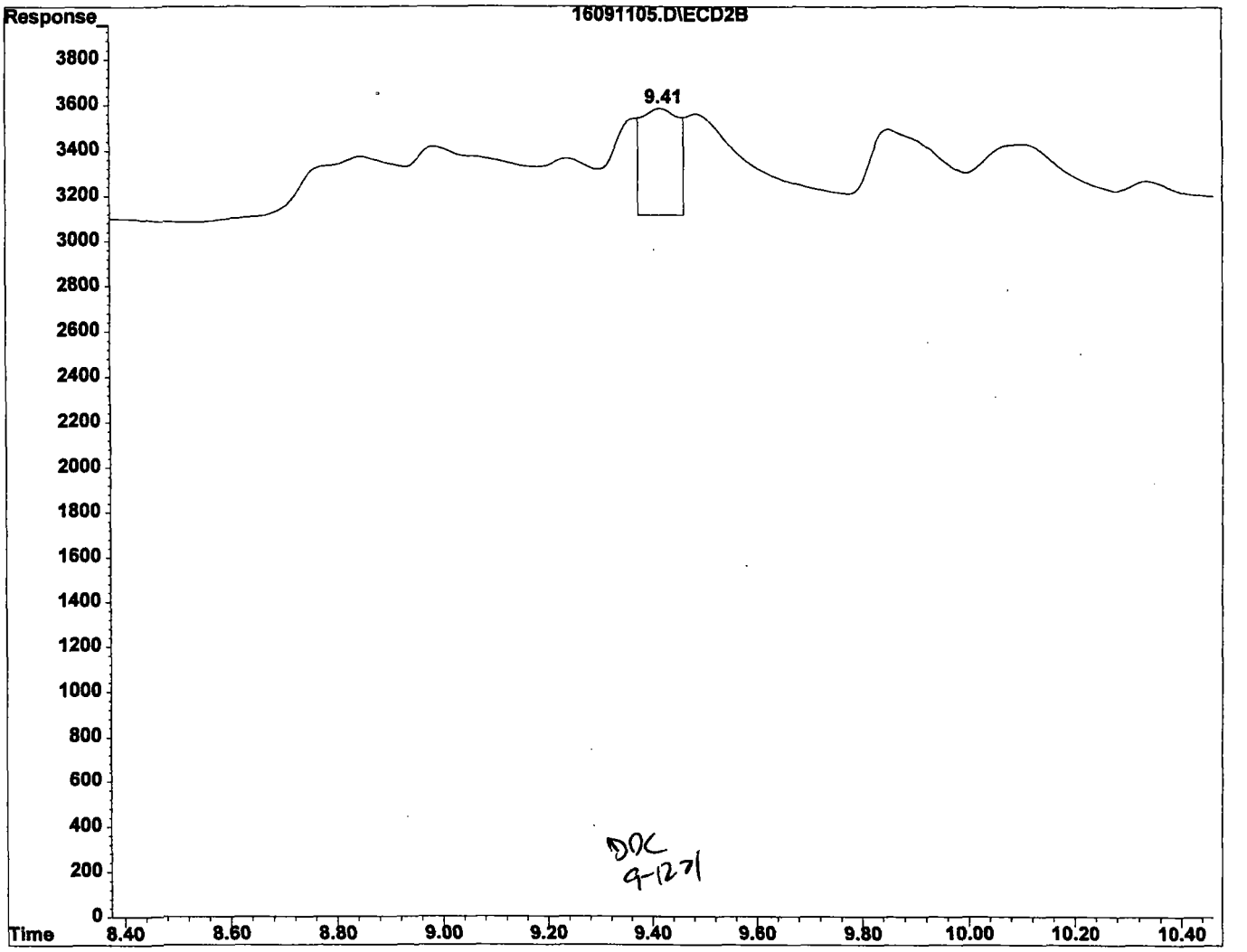
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.96	5.98	46082	46057	7.602	7.359	
22)	S DCB	17.60	16.97	85648	77562	8.864	8.647	
	Target Compounds:							
7)	L4 Aroclor-1242	7.14	7.64	22908	41770	183.5	146.7	
8)	L4 Aroclor-1242 {2}	8.00	8.08	39961	25981	141.3	144.3	
9)	L4 Aroclor-1242 {3}	9.36	8.99	31039	38602	121.8	196.5	# DDC
10)	L4 Aroclor-1242 {4}	9.73	9.41	17499	23392	142.1	238.4m	# 9-12-01
11)	L4 Aroclor-1242 {5}	10.30	10.34	17663	10684	130.1	347.2	#
	Sum Aroclor-1242			129071	140428	718.8	1073.2	
	Average Aroclor-1242					143.760	214.639	

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\09_11_01\16091105.D
Date Acquired: 11 Sep 2001 13:41
Inst: HP_16 Operator ID: DDC
Name: AR1242L1CI
Misc: 5-11-7
Method: F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title: PCB/TOXAPHENE
Quant Time: Sep 11 19:08 2001 Quant Results File: XPCBI11.RES



Aroclor-1242 {4} #2 9.41min area: 23392 m

Integration Time Range: 9.37 - 9.46

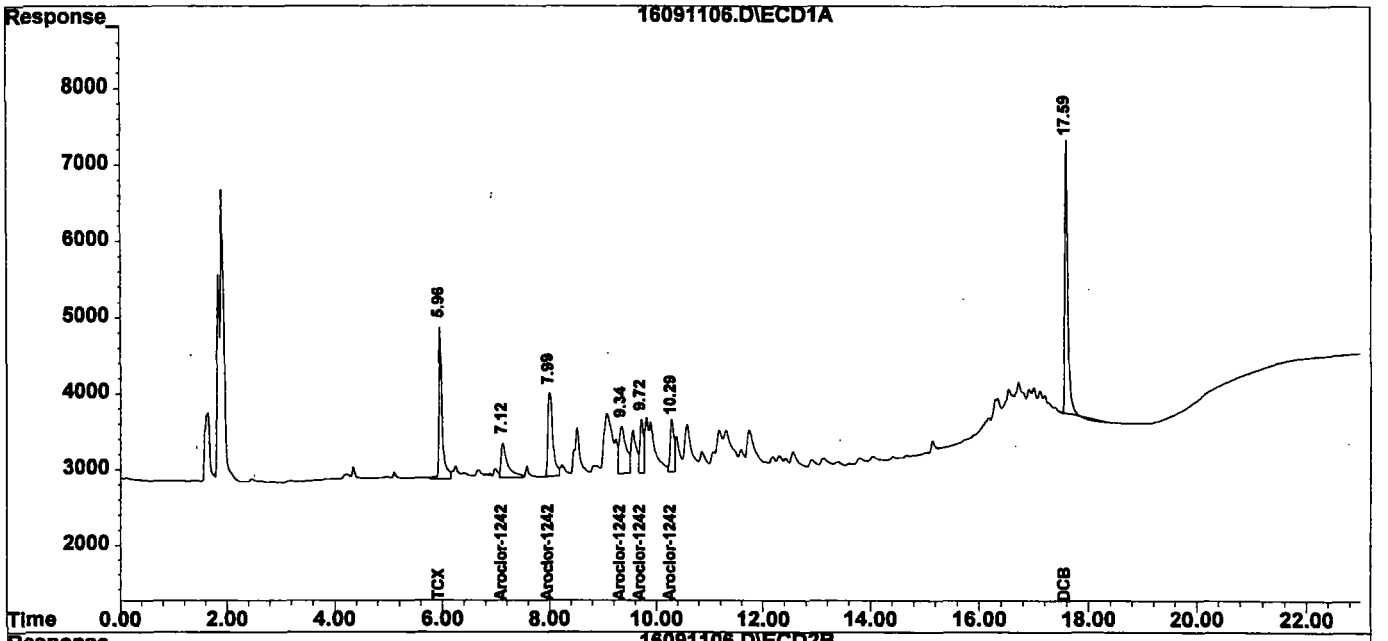
F:\HPCHEM\HP\16\DATA\09_11_01\16091105.D
Report generated: Wed Sep 12 11:14:33 2001

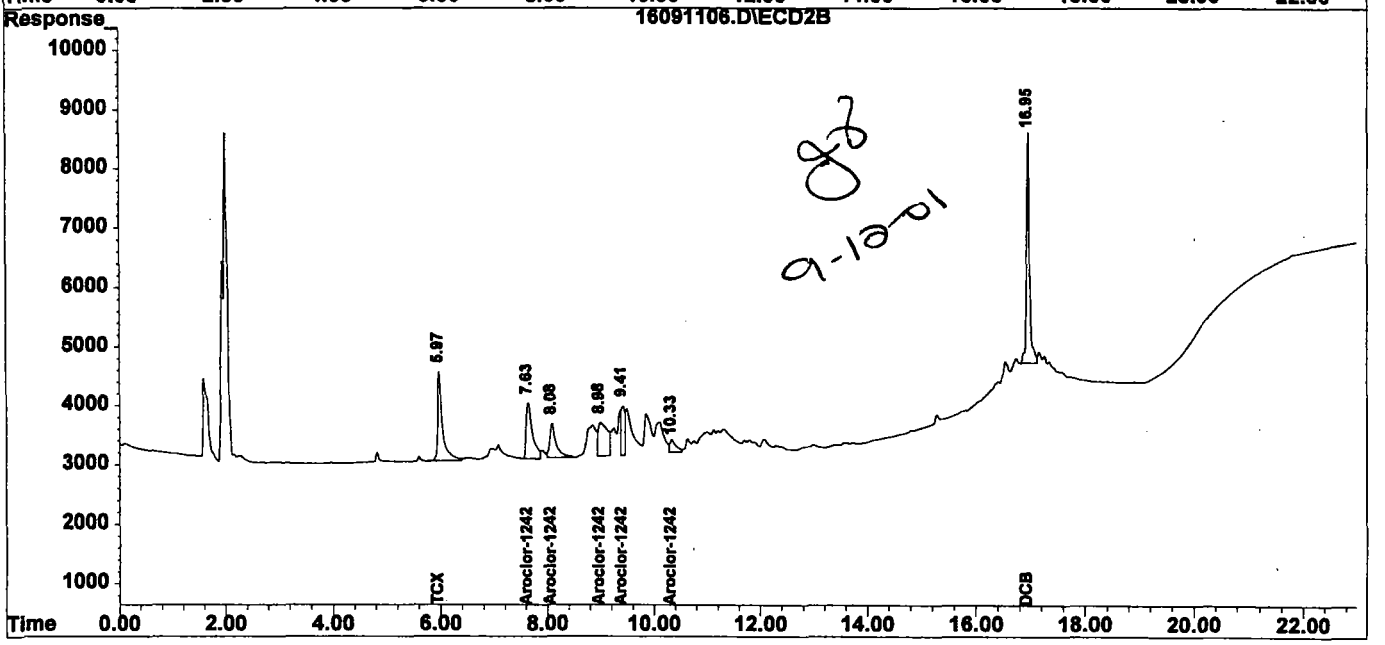
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091106.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091106.D\ECD2B.CH
Acq On : 11 Sep 2001 14:08 Operator: DDC
Sample : AR1242L2CI Inst : HP_16
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 11 19:09 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





gg
9-12-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091106.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091106.D\ECD2B.CH
Acq On : 11 Sep 2001 14:08 Operator: DDC
Sample : AR1242L2CI Inst : HP_16
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 11 19:09 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

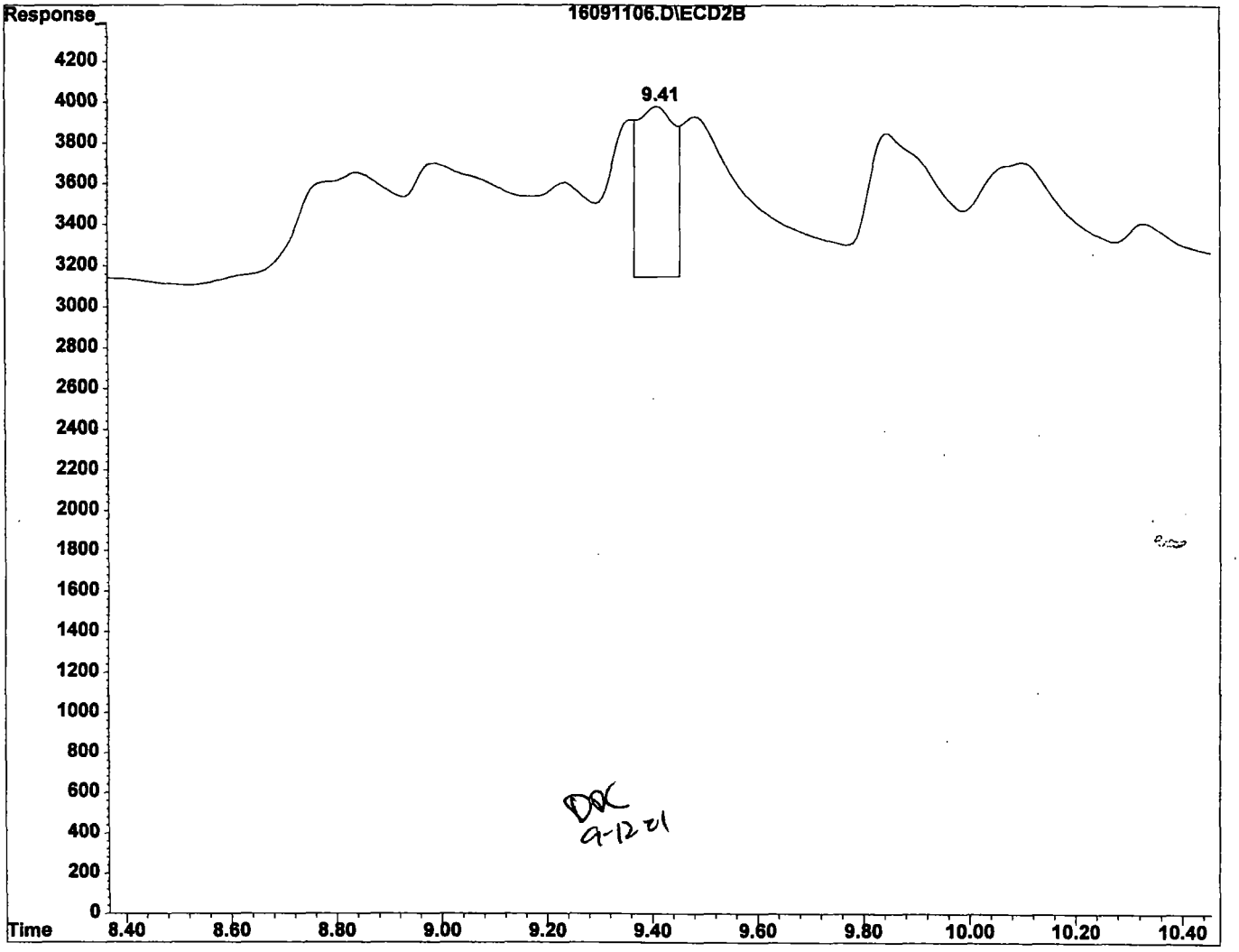
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.96	5.97	82857	89952	12.5	13.2	
22)	S DCB	17.59	16.96	127727	144355	11.8	14.2	
	Target Compounds:							
7)	L4 Aroclor-1242	7.13	7.63	38815	76635	268.1	249.5	
8)	L4 Aroclor-1242 {2}	7.99	8.08	69708	49571	231.4	250.3	
9)	L4 Aroclor-1242 {3}	9.34	8.99	56961	67120	213.9	288.1	# DDC 9-12-01
10)	L4 Aroclor-1242 {4}	9.72	9.41	31572	40896	235.7	267.4m	
11)	L4 Aroclor-1242 {5}	10.29	10.33	32224	16737	221.5	353.0	#
	Sum Aroclor-1242			229280	250960	1170.6	1408.3	
	Average Aroclor-1242					234.119	281.652	

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\09_11_01\16091106.D
Date Acquired: 11 Sep 2001 14:08
Inst: HP_16 Operator ID: DDC
Name: AR1242L2CI
Misc: 5-10-7
Method: F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title: PCB/TOXAPHENE
Quant Time: Sep 11 19:09 2001 Quant Results File: XPCBI11.RES



Aroclor-1242 {4} #2 9.41min area: 40896 m

Integration Time Range: 9.37 - 9.45

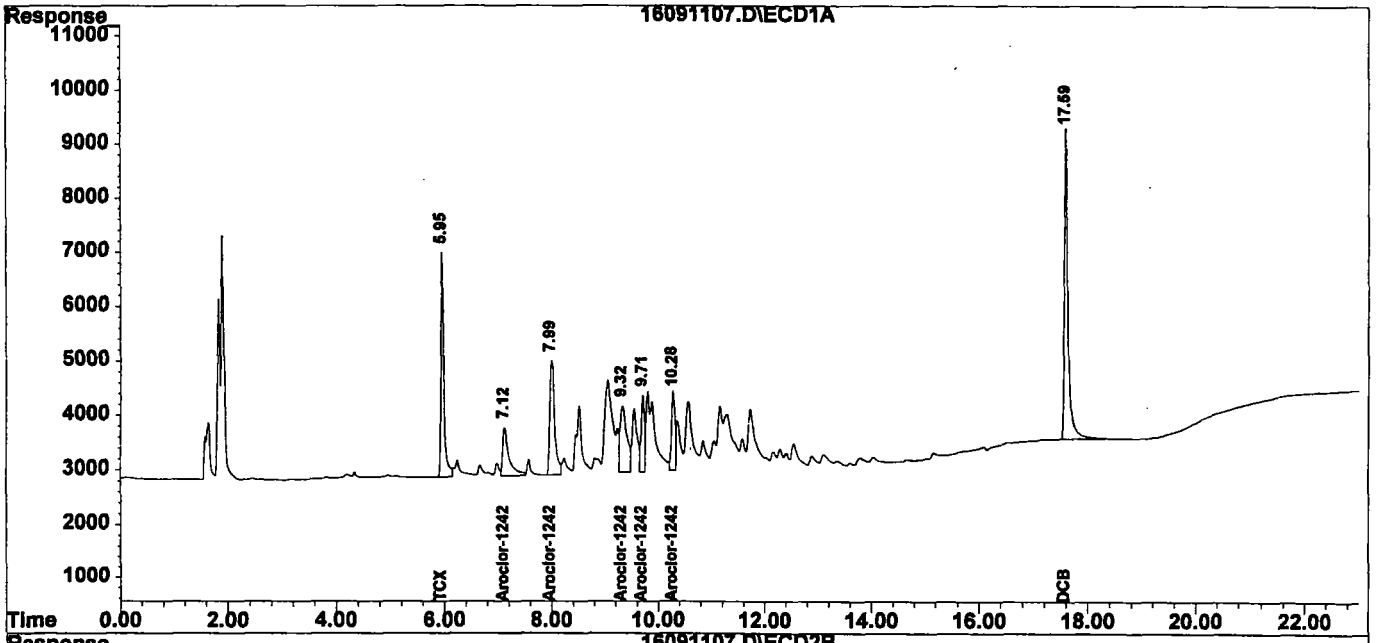
F:\HPCHEM\HP\16\DATA\09_11_01\16091106.D
Report generated: Wed Sep 12 11:14:34 2001

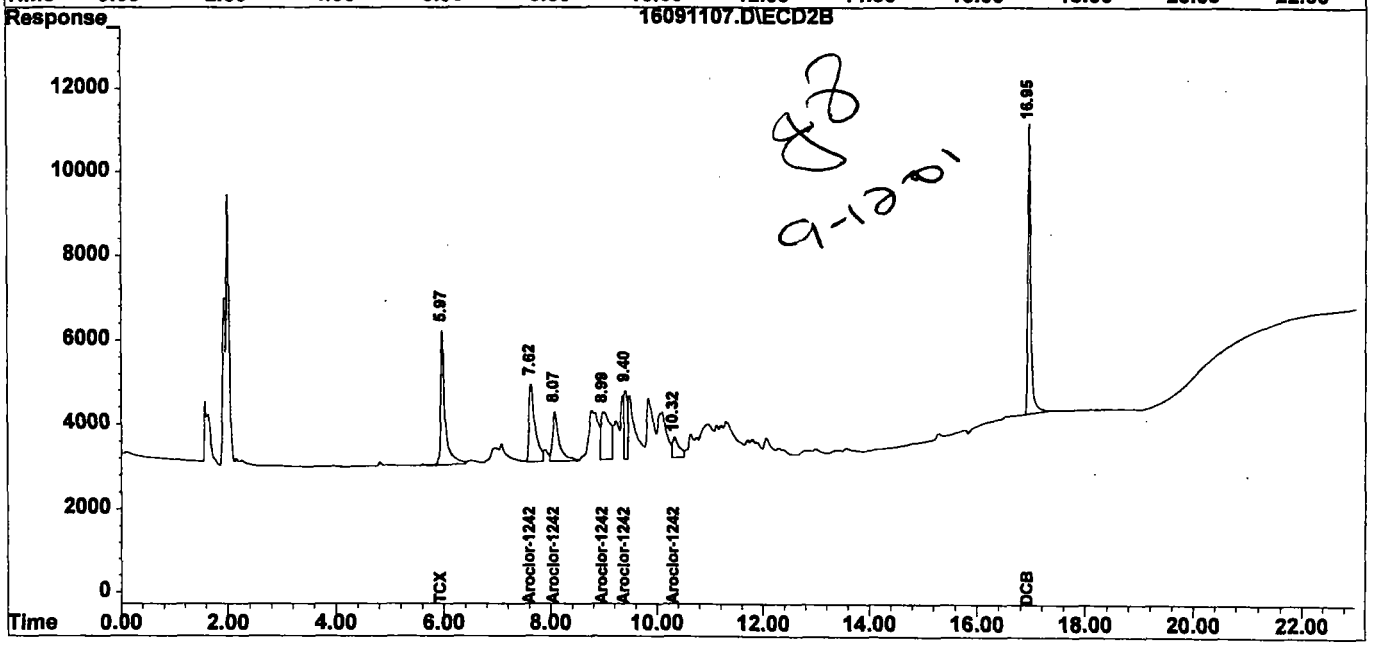
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091107.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091107.D\ECD2B.CH
Acq On : 11 Sep 2001 14:34 Operator: DDC
Sample : AR1242L3CI Inst : HP_16
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 11 19:07 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





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9-12-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091107.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091107.D\ECD2B.CH
Acq On : 11 Sep 2001 14:34 Operator: DDC
Sample : AR1242L3CI Inst : HP_16
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 11 19:07 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.96	5.97	151931	175280	21.3	23.3	
22)	S DCB	17.59	16.96	260388	253516	22.6	22.3	
	Target Compounds:							
7)	L4 Aroclor-1242	7.12	7.63	70863	144405	443.5	439.6	
8)	L4 Aroclor-1242 {2}	7.99	8.08	130991	97452	415.2	458.3	
9)	L4 Aroclor-1242 {3}	9.33	8.99	108101	126427	393.6	483.4	
10)	L4 Aroclor-1242 {4}	9.71	9.40	60851	72421	428.1	363.6	
11)	L4 Aroclor-1242 {5}	10.28	10.33	63911	41154	417.7	710.5	#
	Sum Aroclor-1242			434717	481859	2098.1	2455.3	
	Average Aroclor-1242					419.628	491.066	

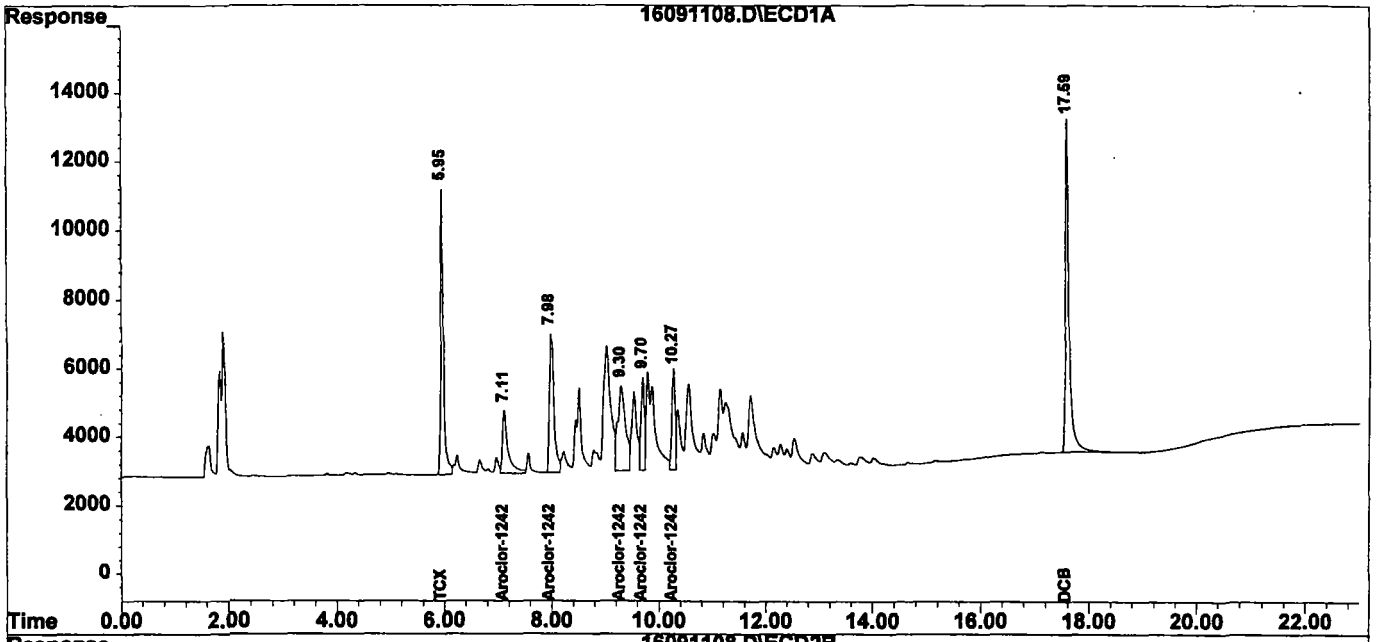
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

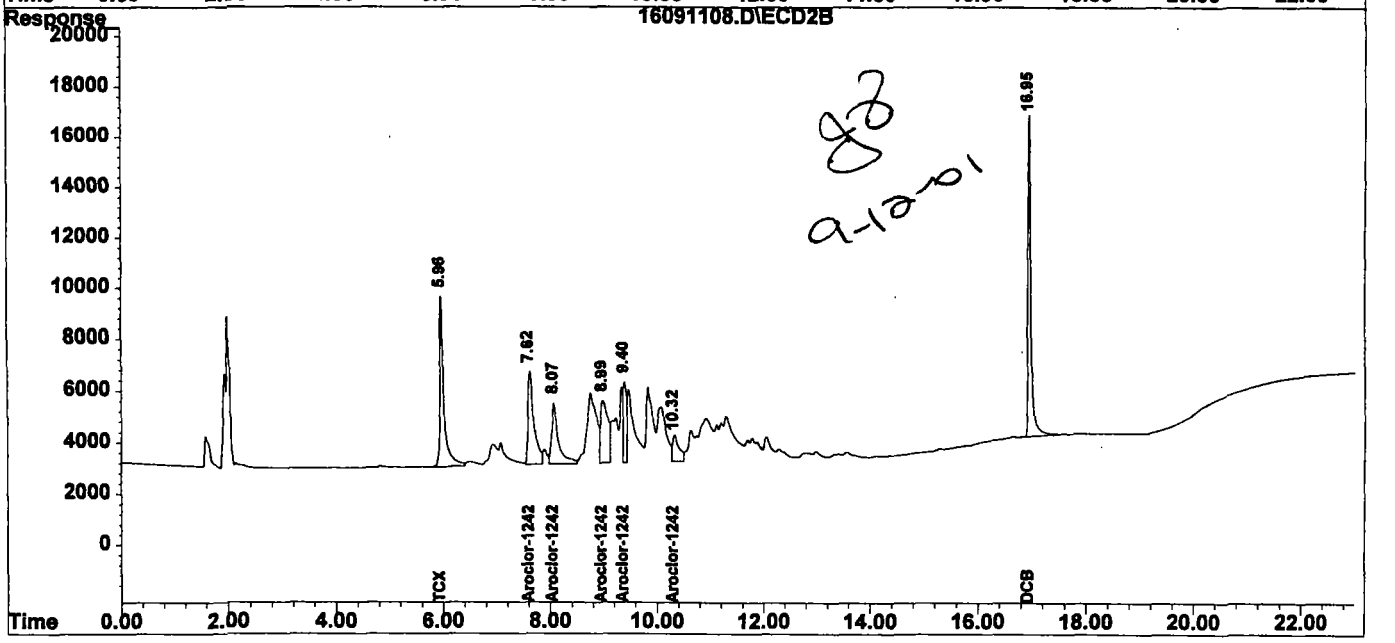
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091108.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091108.D\ECD2B.CH
Acq On : 11 Sep 2001 15:01 Operator: DDC
Sample : AR1242L4CI Inst : HP_16
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 11 19:07 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





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9-12-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091108.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091108.D\ECD2B.CH
Acq On : 11 Sep 2001 15:01 Operator: DDC
Sample : AR1242L4CI Inst : HP_16
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 11 19:07 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.96	5.97	301456	349582	41.0	44.3	
22)	S DCB	17.59	16.96	460304	479121	38.4	40.4	
	Target Compounds:							
7)	L4 Aroclor-1242	7.11	7.62	135211	277187	789.4	801.6	
8)	L4 Aroclor-1242 {2}	7.98	8.07	243797	204949	747.5	905.9	
9)	L4 Aroclor-1242 {3}	9.30	8.99	248481	223991	890.9	780.3	
10)	L4 Aroclor-1242 {4}	9.70	9.40	114775	134846	772.3	622.9	
11)	L4 Aroclor-1242 {5}	10.27	10.32	124732	87427	783.6	1212.9	#
	Sum Aroclor-1242			866996	928400	3983.6	4323.6	
	Average Aroclor-1242					796.722	864.724	

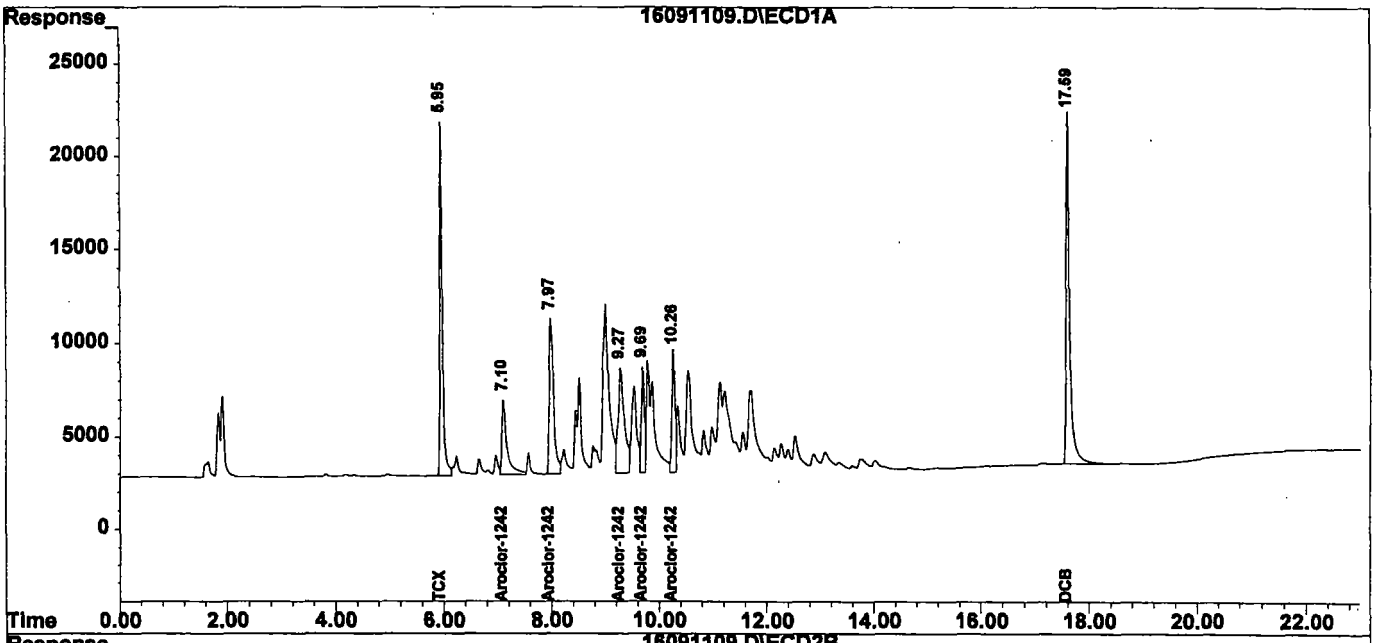
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

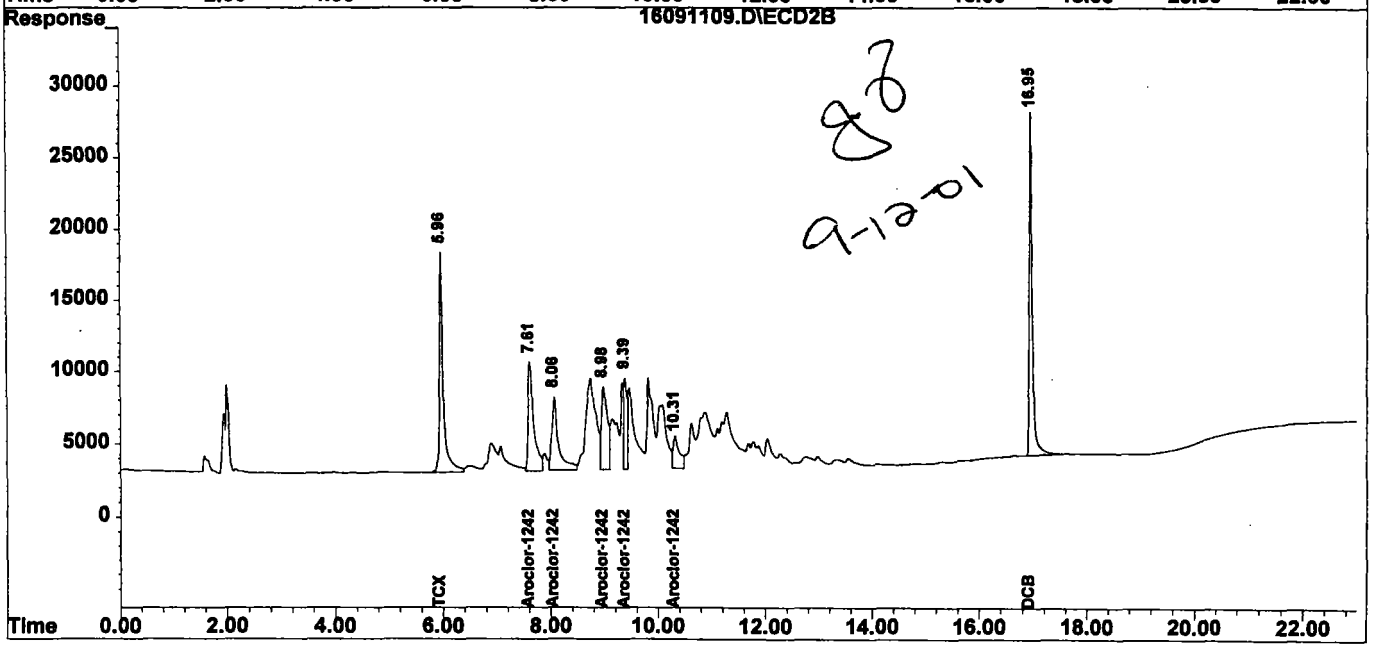
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091109.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091109.D\ECD2B.CH
Acq On : 11 Sep 2001 15:28 Operator: DDC
Sample : AR1242L5CI Inst : HP_16
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 11 19:07 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





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9-12-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091109.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091109.D\ECD2B.CH
Acq On : 11 Sep 2001 15:28 Operator: DDC
Sample : AR1242L5CI Inst : HP_16
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 11 19:07 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.95	5.96	624679	737475	82.4 E	89.1 E
22)	S DCB	17.59	16.95	873273	911177	70.7 E	73.6 E
	Target Compounds:						
7)	L4 Aroclor-1242	7.10	7.61	263209	547731	1478.9	1544.6 E
8)	L4 Aroclor-1242 {2}	7.97	8.06	467208	427570	1425.5 E	1800.9 E#
9)	L4 Aroclor-1242 {3}	9.28	8.98	465407	426534	1634.1	1417.6 E
10)	L4 Aroclor-1242 {4}	9.69	9.39	220140	260220	1470.1	1137.0
11)	L4 Aroclor-1242 {5}	10.26	10.32	255911	177583	1609.5 E	2047.3 E#
	Sum Aroclor-1242			1671875	1839639	7618.1	7947.4
	Average Aroclor-1242					1523.624	1589.480

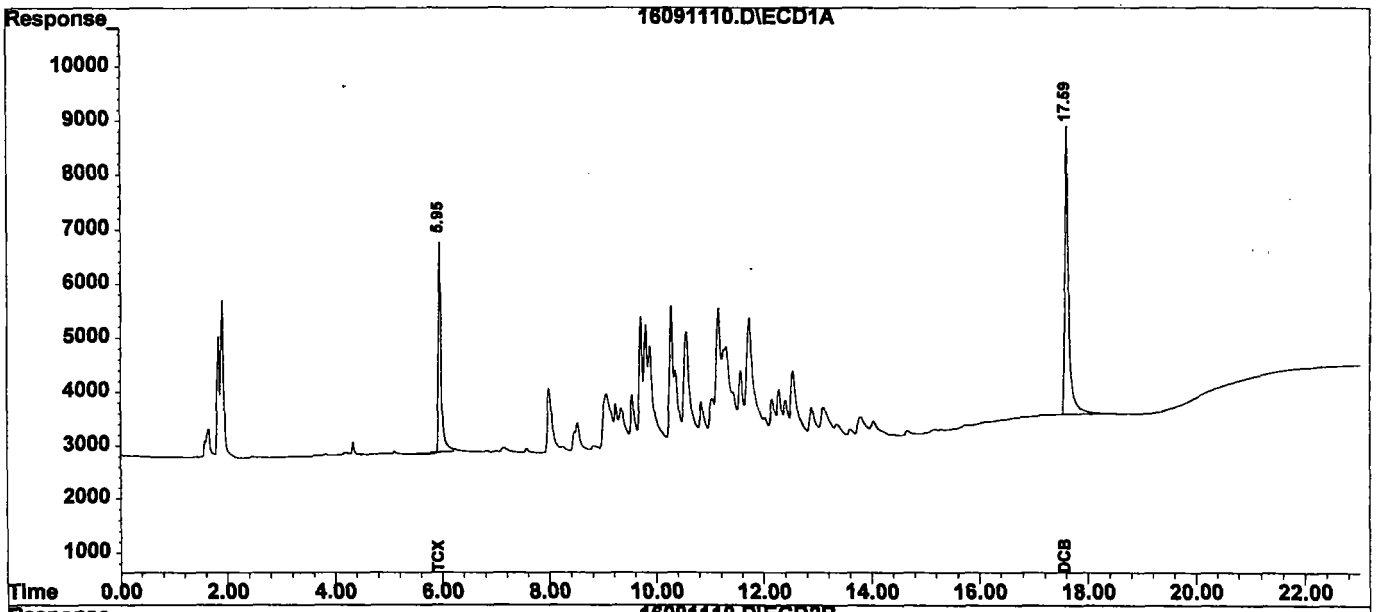
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

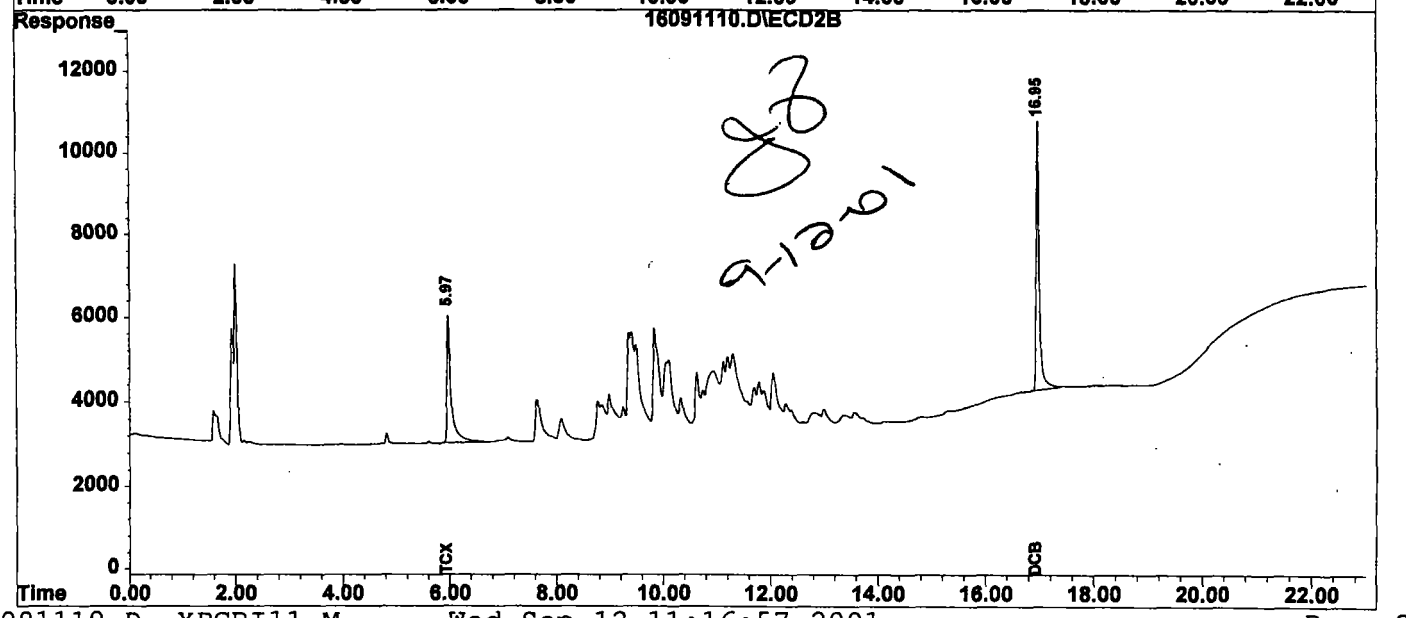
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091110.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091110.D\ECD2B.CH
Acq On : 11 Sep 2001 15:55 Operator: DDC
Sample : AR1248L3CI Inst : HP_16
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 11:01 2001 Quant Results File: XPCBI11.RES
Quant Time: Sep 12 11:02 2001 Quant Results File: xspcbi11.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001

Multi-Component Method : f:\hpchem\hp\16\data\09_11_01\xspcbi11.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





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9-12-01

Chromatographic Report

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Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091110.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091110.D\ECD2B.CH
Acq On    : 11 Sep 2001  15:55                        Operator: DDC
Sample    : AR1248L3CI                                Inst    : HP_16
Misc      : 5-424-6                                   Dilution: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e
Quant Time: Sep 12 11:02 2001  Quant Results File: xspcbi11.RES
Quant Time: Sep 12 11:02 2001  Quant Results File: xspcbi11.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-ICAL Path  : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update      : Wed Sep 05 14:36:59 2001

Multi-Component Method : f:\hpchem\hp\16\data\09_11_01\xspcbi11.m
Title                  : PCB/TOXAPHENE
Last Update            : Fri May 18 09:02:00 2001
Volume Inj.      : 0.5uL
Signal #1 Phase : RTX-PEST 2        Signal #2 Phase: RTX-PEST
Signal #1 Info  : .32               Signal #2 Info : .32
Signal #1 Inst  : HP_16A            Signal #2 Inst : HP_16B
```
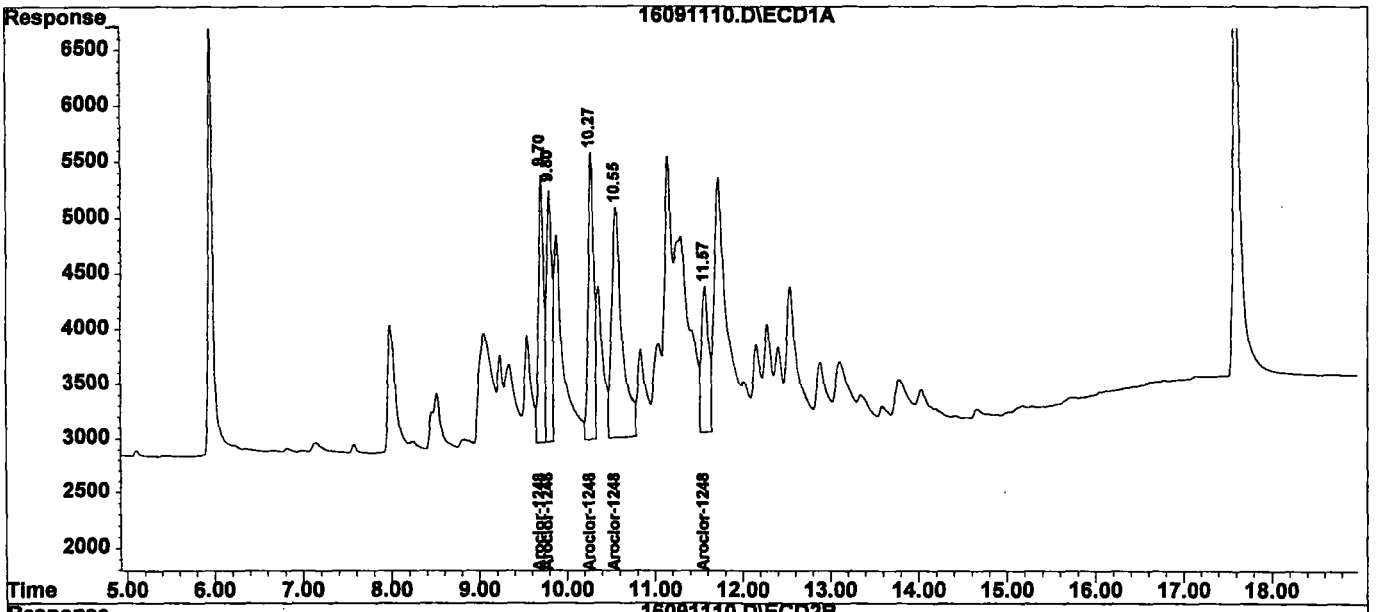
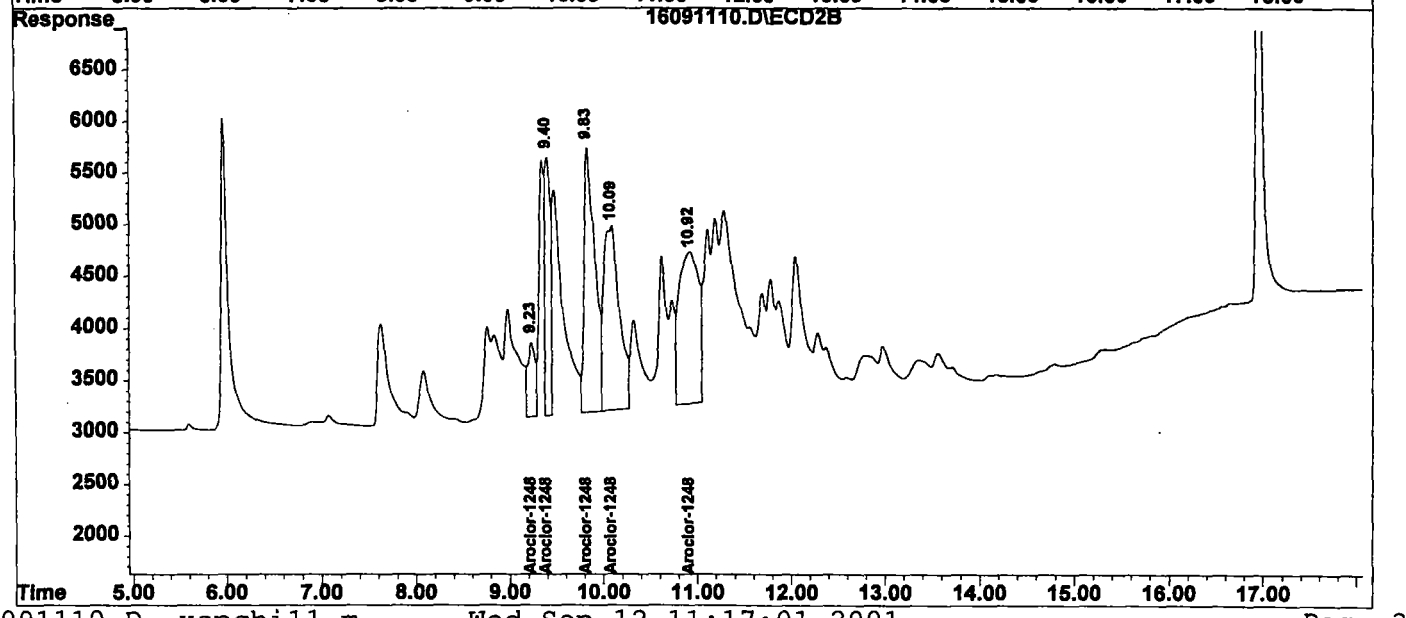





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091110.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091110.D\ECD2B.CH
Acq On : 11 Sep 2001 15:55 Operator: DDC
Sample : AR1248L3CI Inst : HP_16
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 11:01 2001 Quant Results File: XPCBI11.RES
Multi Time: Sep 12 11:02 2001 Quant Results File: xspcbi11.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001

Multi-Component Method : f:\hpchem\hp\16\data\09_11_01\xspcbi11.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.96	5.97	135270	164157	19.5	20.9	
22)	S DCB	17.59	16.96	260242	251123	22.8	22.3	
	Target Compounds:							
	Multi-Component Compounds:							
14)	L5 Aroclor-1248	9.71	9.24	96387	39612	470.9	198.6	#
15)	L5 Aroclor-1248 {2}	9.80	9.40	94906	105103	476.0	527.1	
16)	L5 Aroclor-1248 {3}	10.27	9.83	110956	200922	480.4	550.0	
17)	L5 Aroclor-1248 {4}	10.56	10.10	173989	208815	494.6	987.8	#
18)	L5 Aroclor-1248 {5}	11.57	10.92	75075	209196	544.6	442.5	
	Sum Aroclor-1248			551311	763648	2466.4	2706.0	
	Average Aroclor-1248					493.284	541.194	

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

Response Factor Report HP_16

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Calibration Files
L1 =16091111.D L2 =16091112.D L3 =16091113.D
L4 =16091114.D L5 =16091115.D

	Compound	L1	L2	L3	L4	L5	Avg	%RSD
12)	Aroclor-1254	421.7	480.8	304.4	400.2	419.0	405.2	15.78
13)	Aroclor-1254 {2}	383.2	431.4	271.4	347.5	343.6	355.4	16.53
14)	Aroclor-1254 {3}	722.3	644.9	410.2	542.0	547.6	573.4	20.56
15)	Aroclor-1254 {4}	343.8	406.9	260.7	328.3	311.8	330.3	16.06
16)	Aroclor-1254 {5}	355.2	430.6	276.5	360.8	356.7	356.0	15.32

Signal #2 Calibration Files
L1 =16091111.D L2 =16091112.D L3 =16091113.D
L4 =16091114.D L5 =16091115.D

	Compound	L1	L2	L3	L4	L5	Avg	%RSD
35)	Aroclor-1254 #2	345.0	378.5	236.8	302.8	301.5	312.9	17.03
36)	Aroclor-1254 {2} #2	410.7	437.6	280.7	371.4	375.1	375.1	15.83
37)	Aroclor-1254 {3} #2	232.6	286.4	194.6	282.5	297.9	258.8	16.91
38)	Aroclor-1254 {4} #2	314.4	383.7	249.1	324.9	314.6	317.3	15.06
39)	Aroclor-1254 {5} #2	558.9	663.8	421.2	553.5	541.1	547.7	15.73

(#) = Out of Range

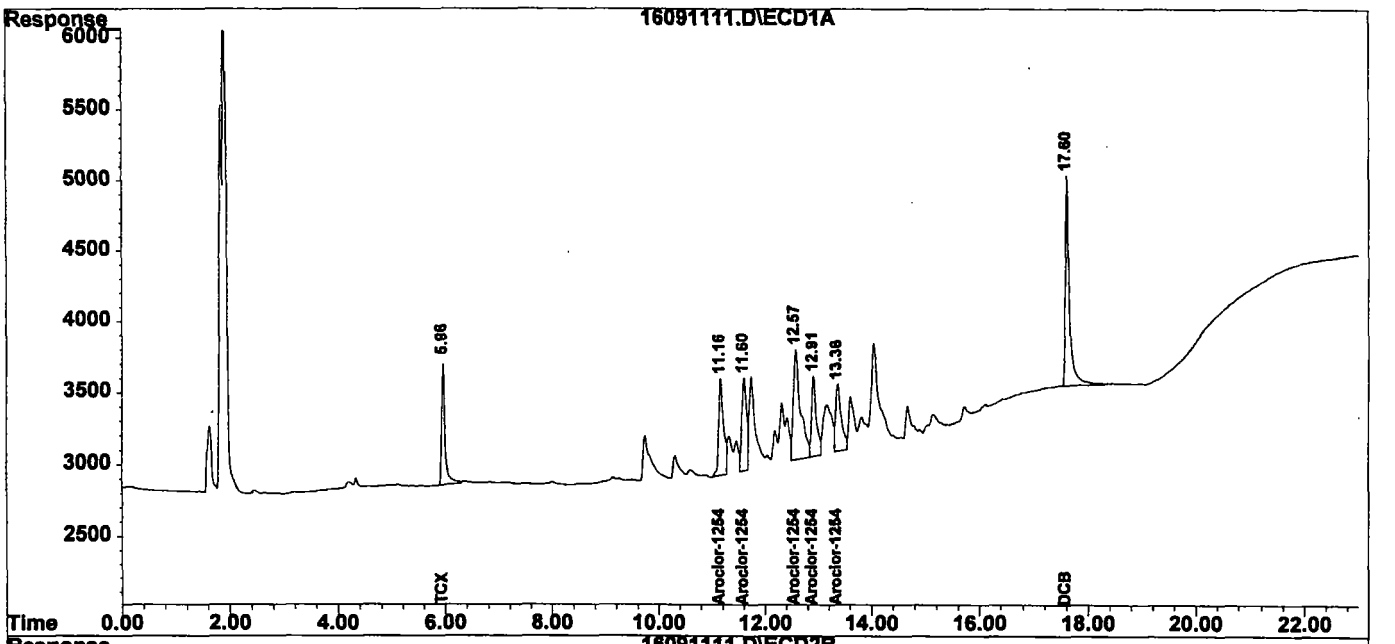
XPCBI11.M Tue Sep 11 19:16:13 2001

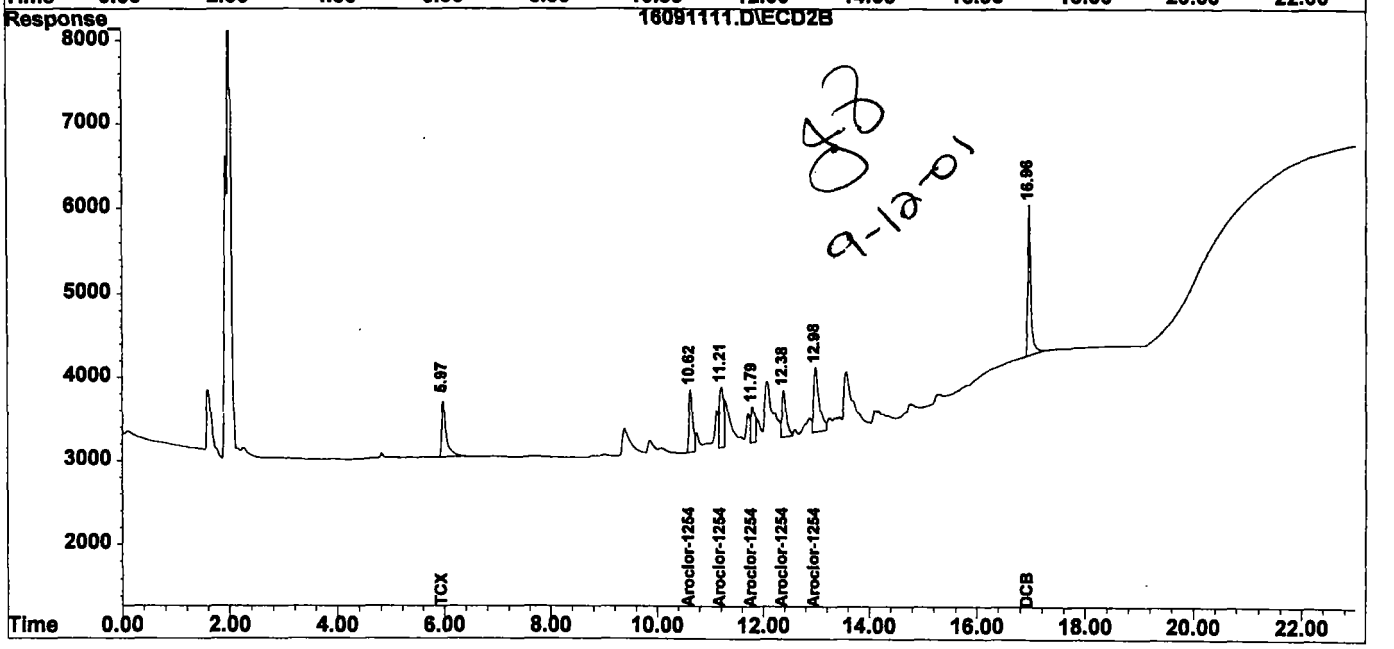
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091111.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091111.D\ECD2B.CH
Acq On : 11 Sep 2001 16:21 Operator: DDC
Sample : AR1254L1CI Inst : HP_16
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 11 19:15 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





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9-12-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091111.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091111.D\ECD2B.CH
Acq On : 11 Sep 2001 16:21 Operator: DDC
Sample : AR1254L1CI Inst : HP_16
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 11 19:15 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

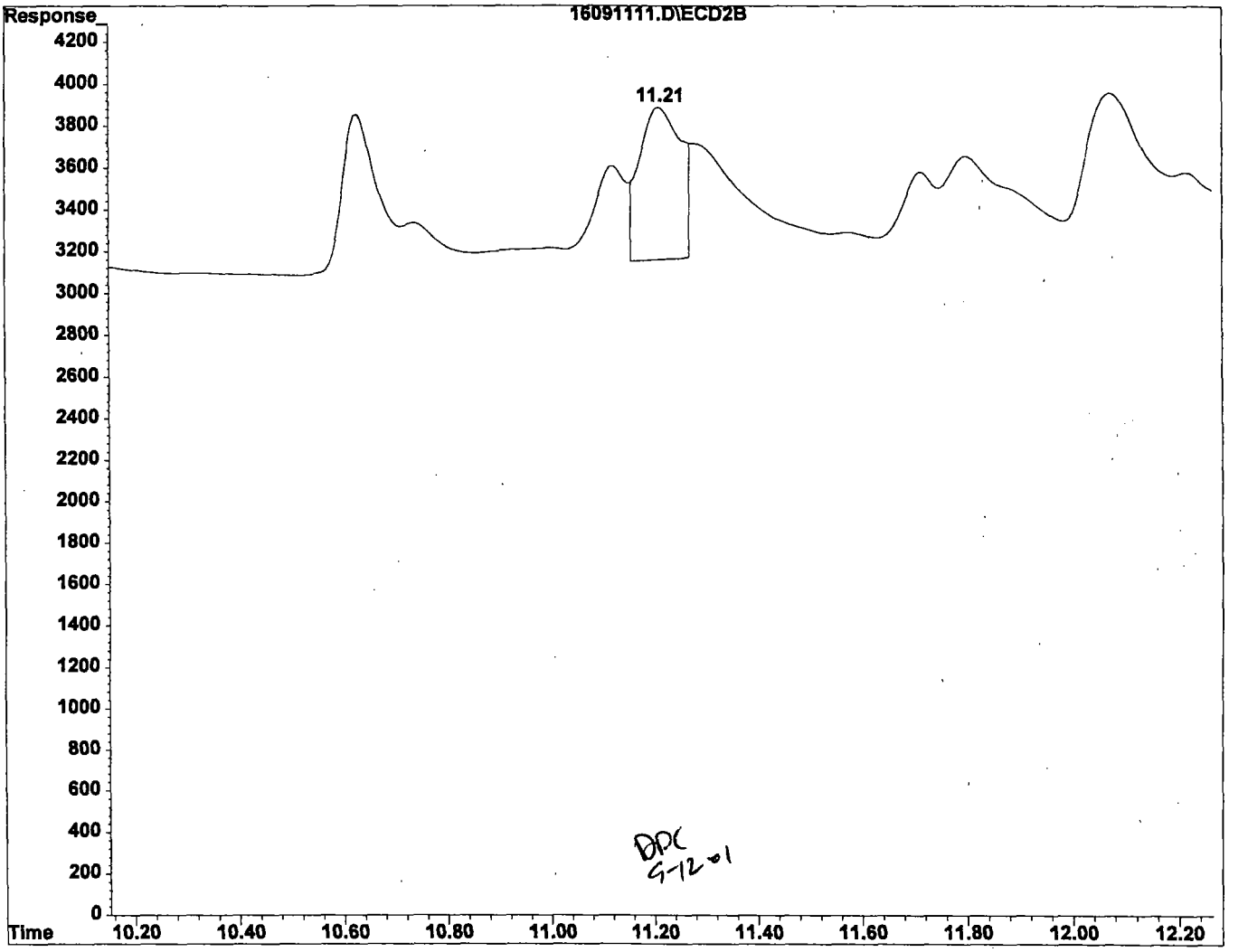
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.96	5.98	36955	38695	4.569	4.306
22)	S DCB	17.60	16.96	76811	68117	5.877	5.161
	Target Compounds:						
12)	L6 Aroclor-1254	11.16	10.63	42170	34499	105.5	124.5
13)	L6 Aroclor-1254 {2}	11.60	11.21	38321	41068	115.2	124.6m
14)	L6 Aroclor-1254 {3}	12.57f	11.79	72234	23260	141.8	91.2m #
15)	L6 Aroclor-1254 {4}	12.91	12.38	34384	31438	121.6	125.8
16)	L6 Aroclor-1254 {5}	13.36	12.99	35521	55895	111.0	129.9
	Sum Aroclor-1254			222630	186160	595.0	596.0
	Average Aroclor-1254					119.002	119.203

JPC 9-12-01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\09_11_01\16091111.D
Date Acquired: 11 Sep 2001 16:21
Inst: HP_16 Operator ID: DDC
Name: AR1254L1CI
Misc: 5-6-7
Method: F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title: PCB/TOXAPHENE
Quant Time: Sep 11 19:15 2001 Quant Results File: XPCBI11.RES



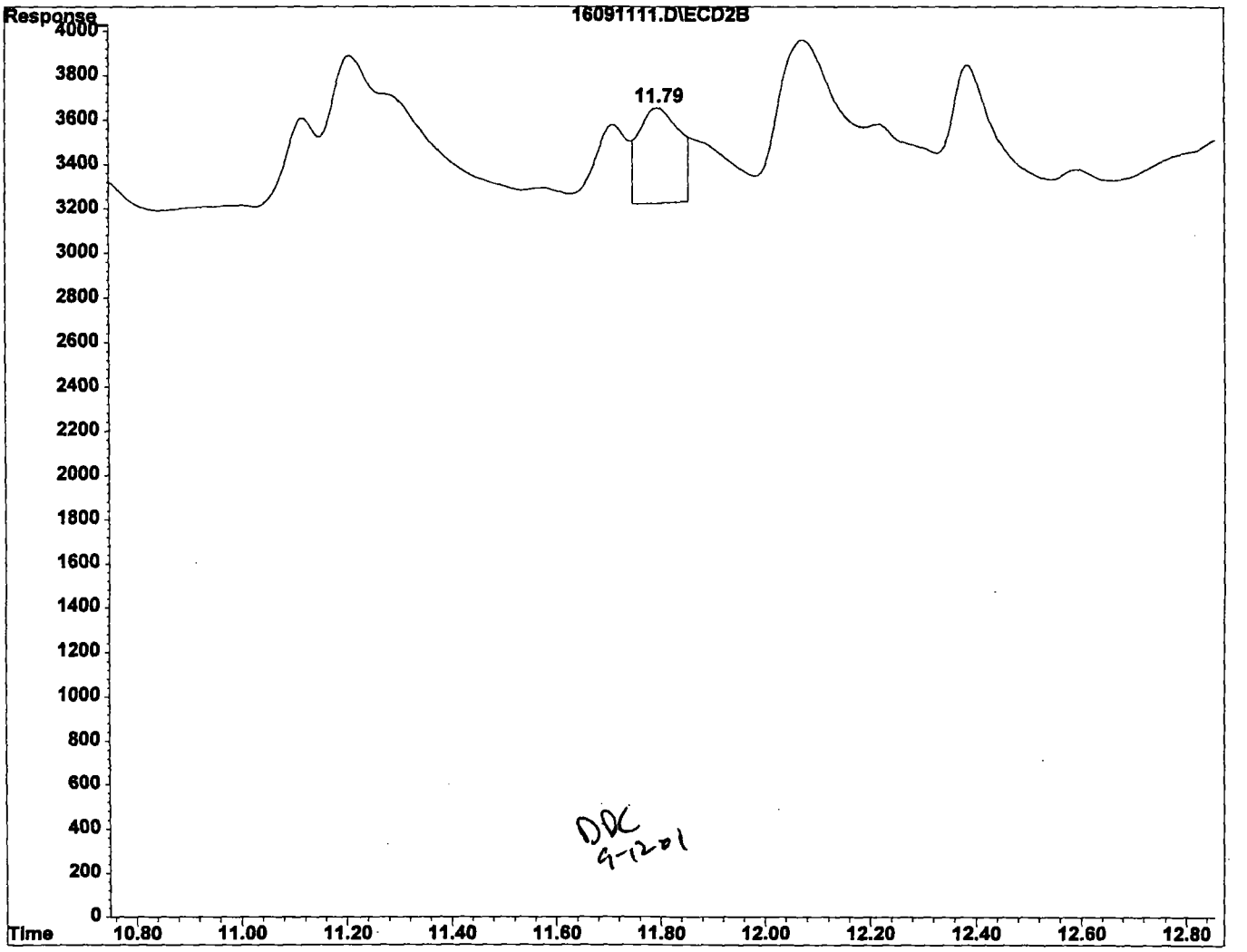
Aroclor-1254 {2} #2 11.21min area: 41068 m

Integration Time Range: 11.15 - 11.26

F:\HPCHEM\HP\16\DATA\09_11_01\16091111.D
Report generated: Wed Sep 12 11:14:40 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\09_11_01\16091111.D
Date Acquired: 11 Sep 2001 16:21
Inst: HP_16 Operator ID: DDC
Name: AR1254L1CI
Misc: 5-6-7
Method: F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title: PCB/TOXAPHENE
Quant Time: Sep 11 19:15 2001 Quant Results File: XPCBI11.RES



Aroclor-1254 {3} #2 11.79min area: 23260 m

Integration Time Range: 11.75 - 11.85

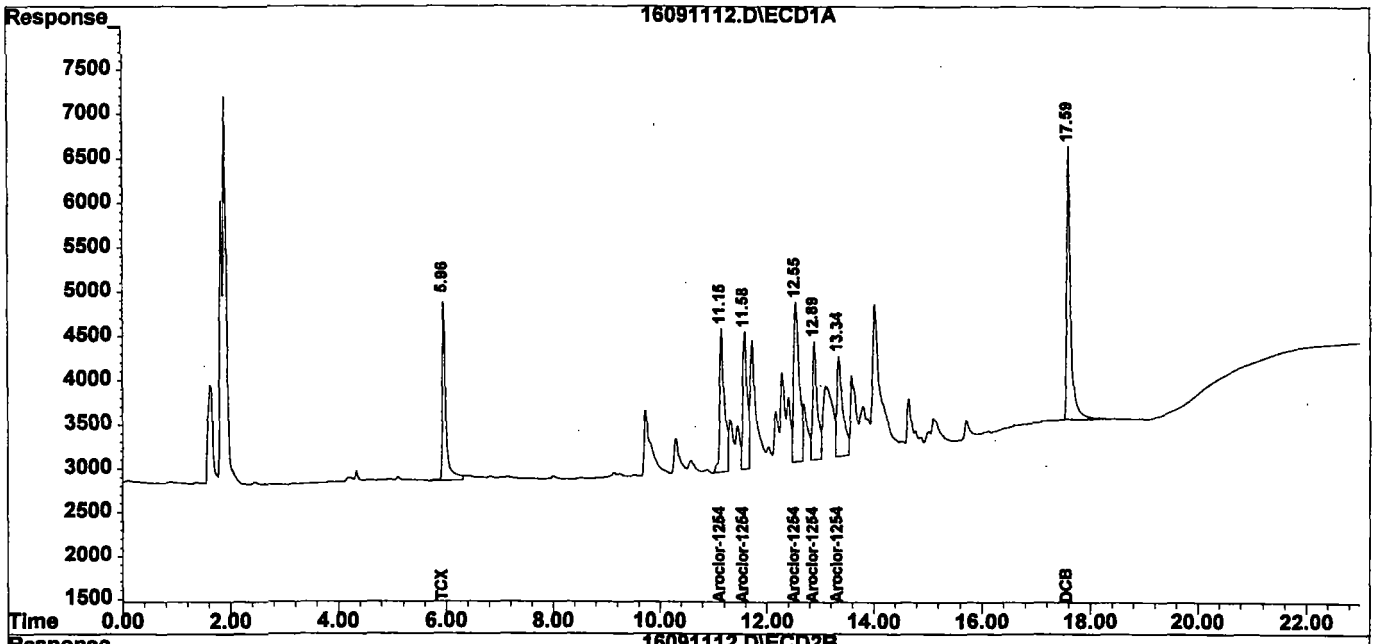
F:\HPCHEM\HP\16\DATA\09_11_01\16091111.D
Report generated: Wed Sep 12 11:14:41 2001

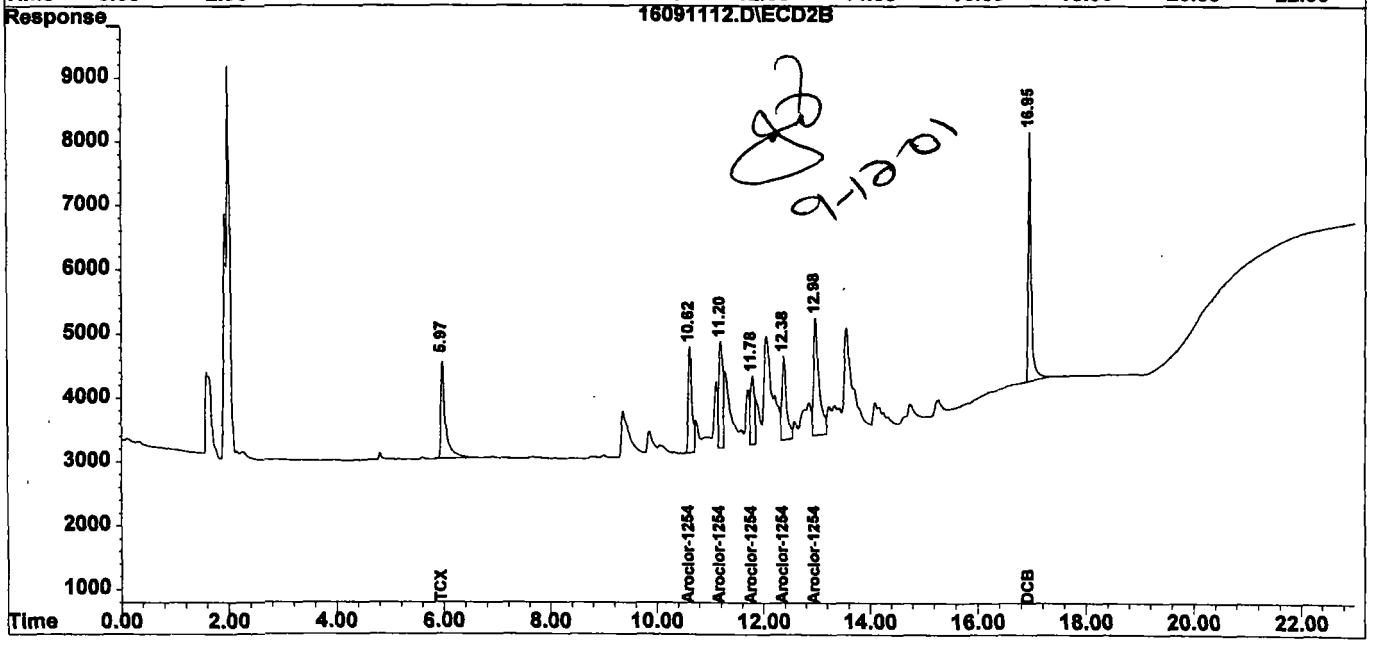
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091112.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091112.D\ECD2B.CH
Acq On : 11 Sep 2001 16:48 Operator: DDC
Sample : AR1254L2CI Inst : HP_16
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 11 19:15 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9-12-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091112.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091112.D\ECD2B.CH
Acq On : 11 Sep 2001 16:48 Operator: DDC
Sample : AR1254L2CI Inst : HP_16
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 11 19:15 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

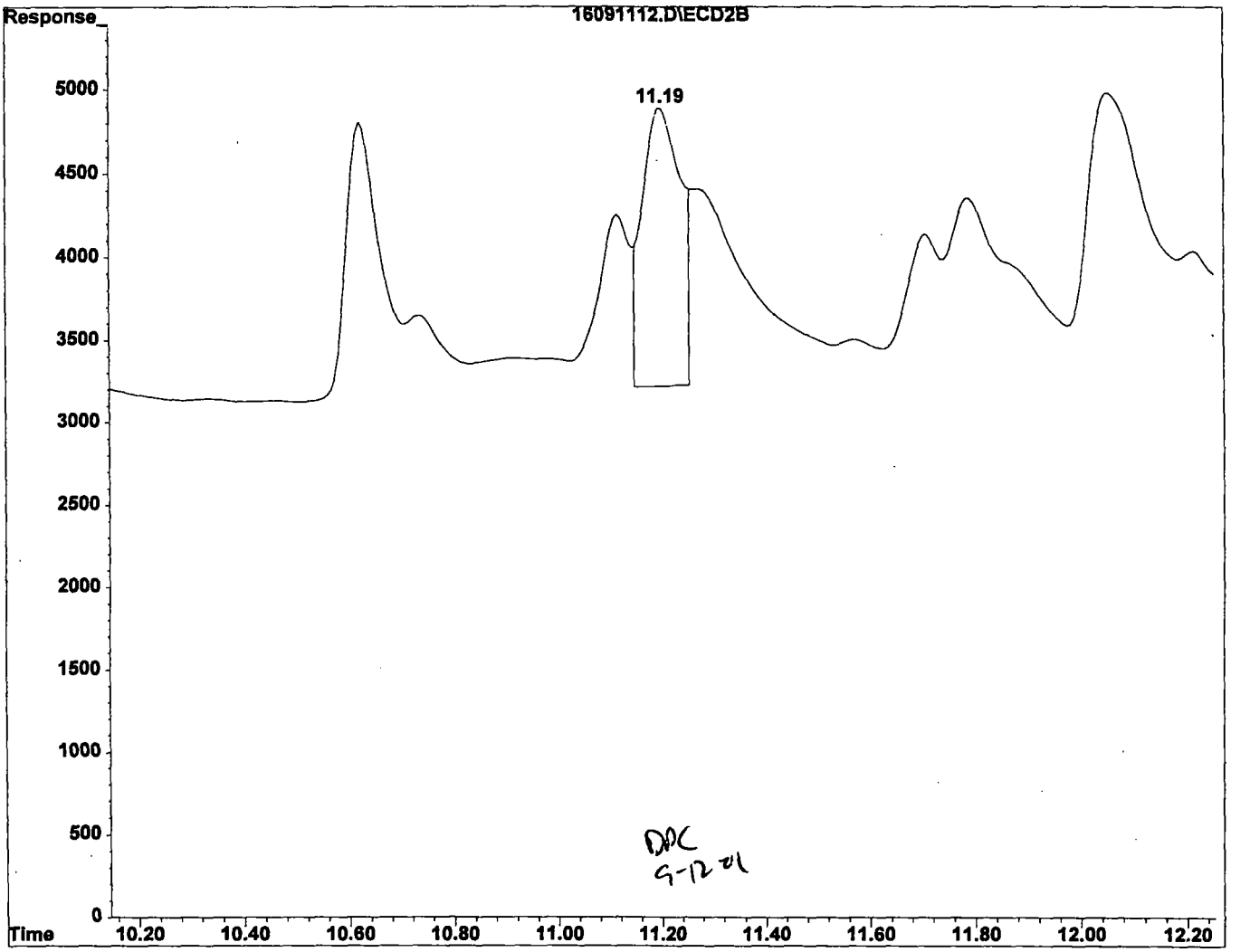
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.96	5.97	90319	90636	11.7	10.4
22)	S DCB	17.59	16.96	152251	146555	12.0	11.4
	Target Compounds:						
12)	L6 Aroclor-1254	11.15	10.62	96156	75690	239.3	258.1
13)	L6 Aroclor-1254 {2}	11.58	11.19	86280	87520	254.2	200.6m
14)	L6 Aroclor-1254 {3}	12.55	11.79	128976	57272	233.7	195.6m
15)	L6 Aroclor-1254 {4}	12.90	12.38	81377	76741	276.3	282.7
16)	L6 Aroclor-1254 {5}	13.35	12.98	86114	132759	260.4	286.1
	Sum Aroclor-1254			478903	429982	1263.9	1223.1
	Average Aroclor-1254					252.784	244.616

DDC 9-12-01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\09_11_01\16091112.D
Date Acquired: 11 Sep 2001 16:48
Inst: HP_16 Operator ID: DDC
Name: AR1254L2CI
Misc: 5-5-7
Method: F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title: PCB/TOXAPHENE
Quant Time: Sep 11 19:15 2001 Quant Results File: XPCBI11.RES



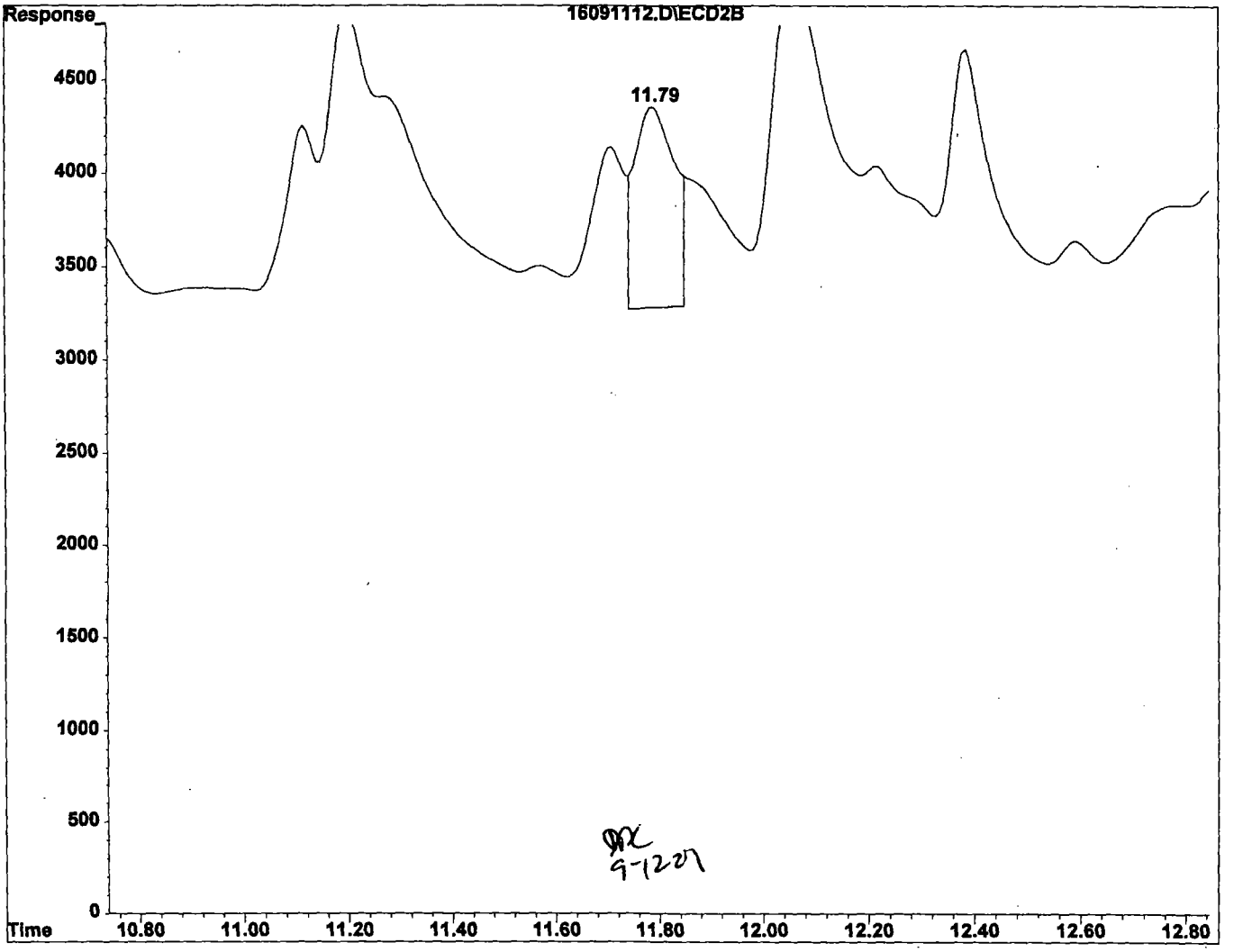
Aroclor-1254 {2} #2 11.19min area: 87520 m

Integration Time Range: 11.15 - 11.25

F:\HPCHEM\HP\16\DATA\09_11_01\16091112.D
Report generated: Wed Sep 12 11:14:42 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\09_11_01\16091112.D
Date Acquired: 11 Sep 2001 16:48
Inst: HP_16 Operator ID: DDC
Name: AR1254L2CI
Misc: 5-5-7
Method: F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title: PCB/TOXAPHENE
Quant Time: Sep 11 19:15 2001 Quant Results File: XPCBI11.RES



Aroclor-1254 {3} #2 11.79min area: 57272 m

Integration Time Range: 11.74 - 11.85

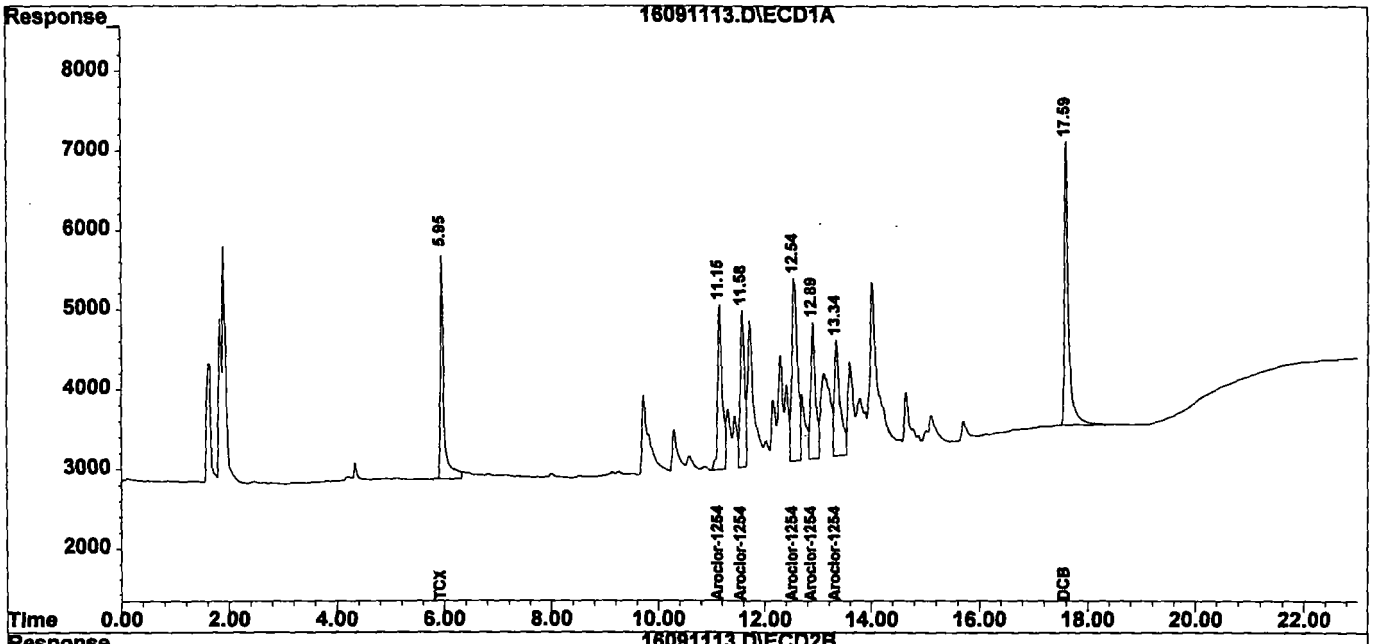
F:\HPCHEM\HP\16\DATA\09_11_01\16091112.D
Report generated: Wed Sep 12 11:14:43 2001

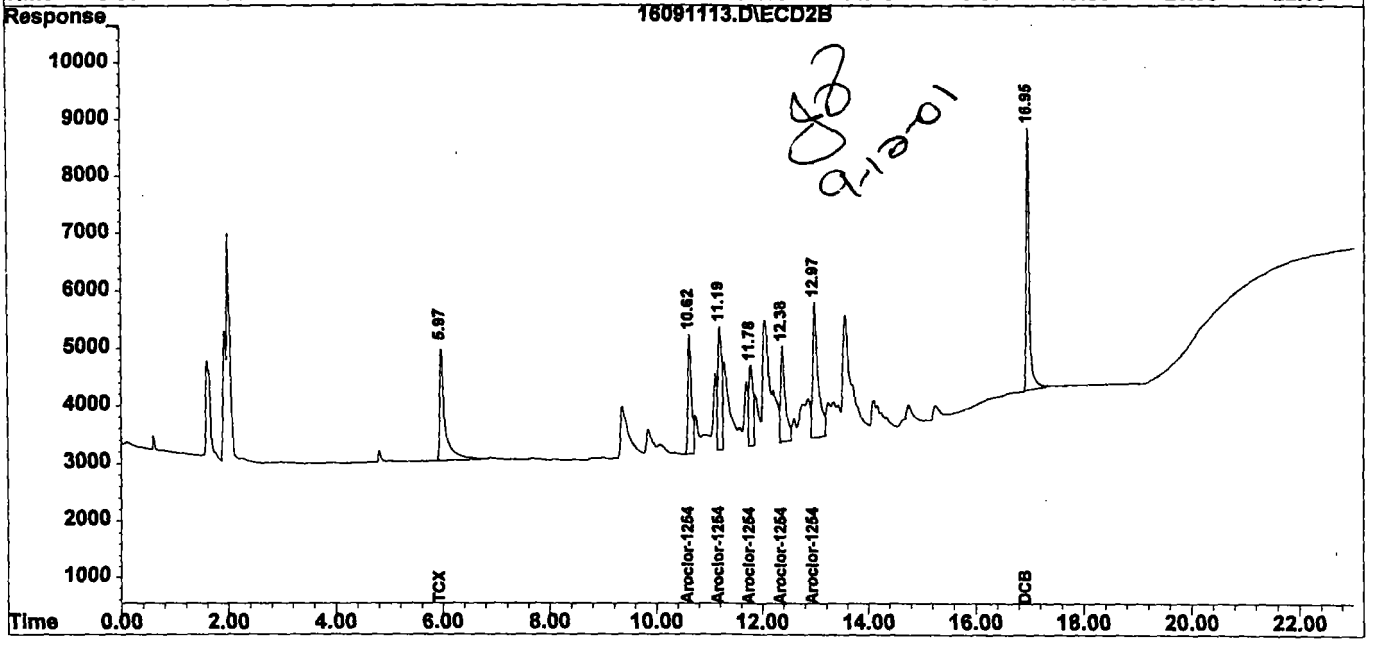
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091113.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091113.D\ECD2B.CH
Acq On : 11 Sep 2001 17:14 Operator: DDC
Sample : AR1254L3CI Inst : HP_16
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 11 19:15 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9-13-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091113.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091113.D\ECD2B.CH
Acq On : 11 Sep 2001 17:14 Operator: DDC
Sample : AR1254L3CI Inst : HP_16
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 11 19:15 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

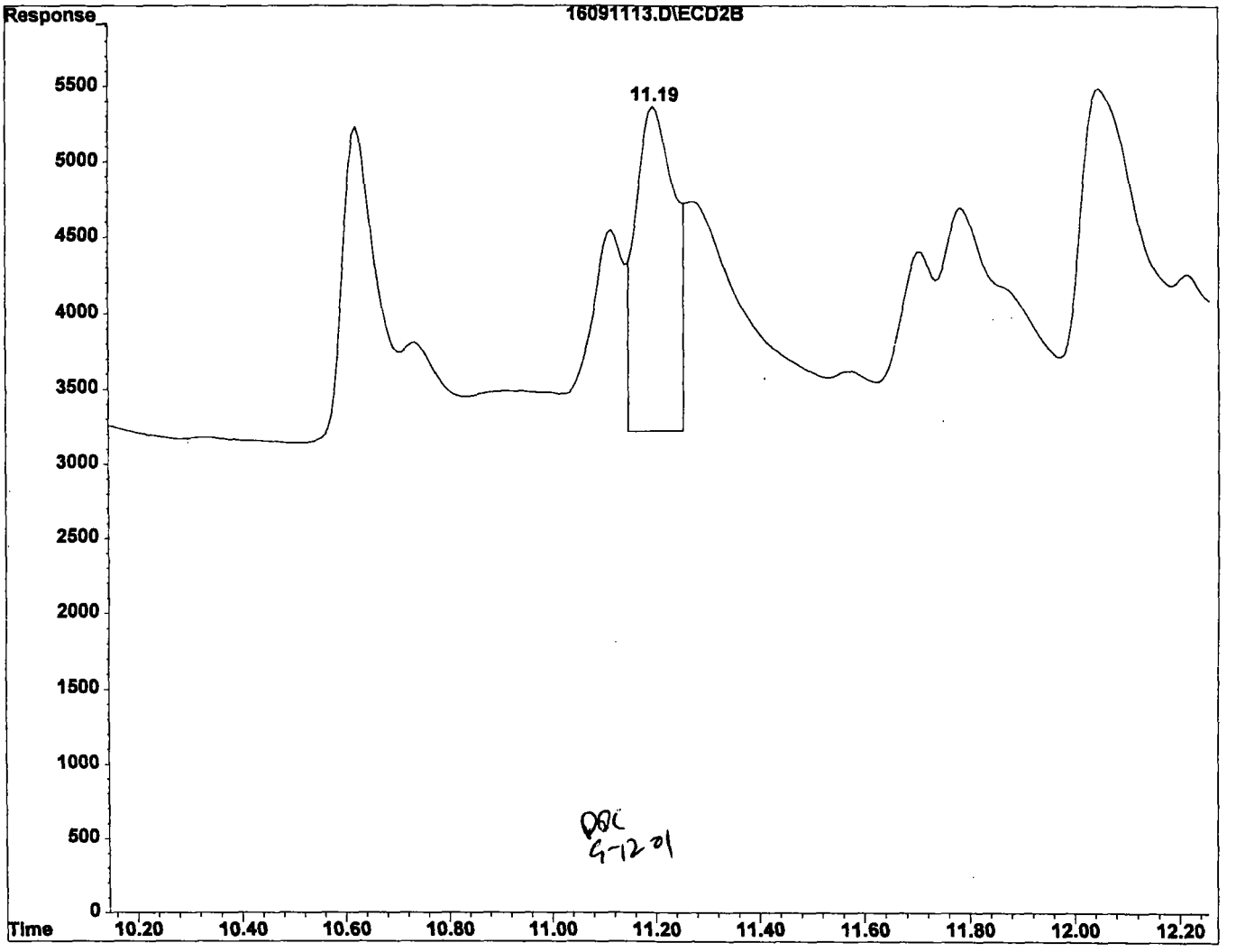
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.96	5.97	122588	127292	15.6	14.6
22)	S DCB	17.60	16.96	183162	179910	13.9	14.0
	Target Compounds:						
12)	L6 Aroclor-1254	11.15	10.62	121764	94711	290.3	302.7
13)	L6 Aroclor-1254 {2}	11.58	11.19	108567	112272	302.2	199.7m #
14)	L6 Aroclor-1254 {3}	12.54	11.78	164096	77840	282.2	225.6m
15)	L6 Aroclor-1254 {4}	12.90	12.38	104261	99643	325.8	329.9
16)	L6 Aroclor-1254 {5}	13.34	12.98	110618	168481	311.5	326.5
	Sum Aroclor-1254			609306	552947	1512.1	1384.3
	Average Aroclor-1254					302.411	276.862

PPC green

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\09_11_01\16091113.D
Date Acquired: 11 Sep 2001 17:14
Inst: HP_16 Operator ID: DDC
Name: AR1254L3CI
Misc: 5-4-7
Method: F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title: PCB/TOXAPHENE
Quant Time: Sep 11 19:15 2001 Quant Results File: XPCBI11.RES



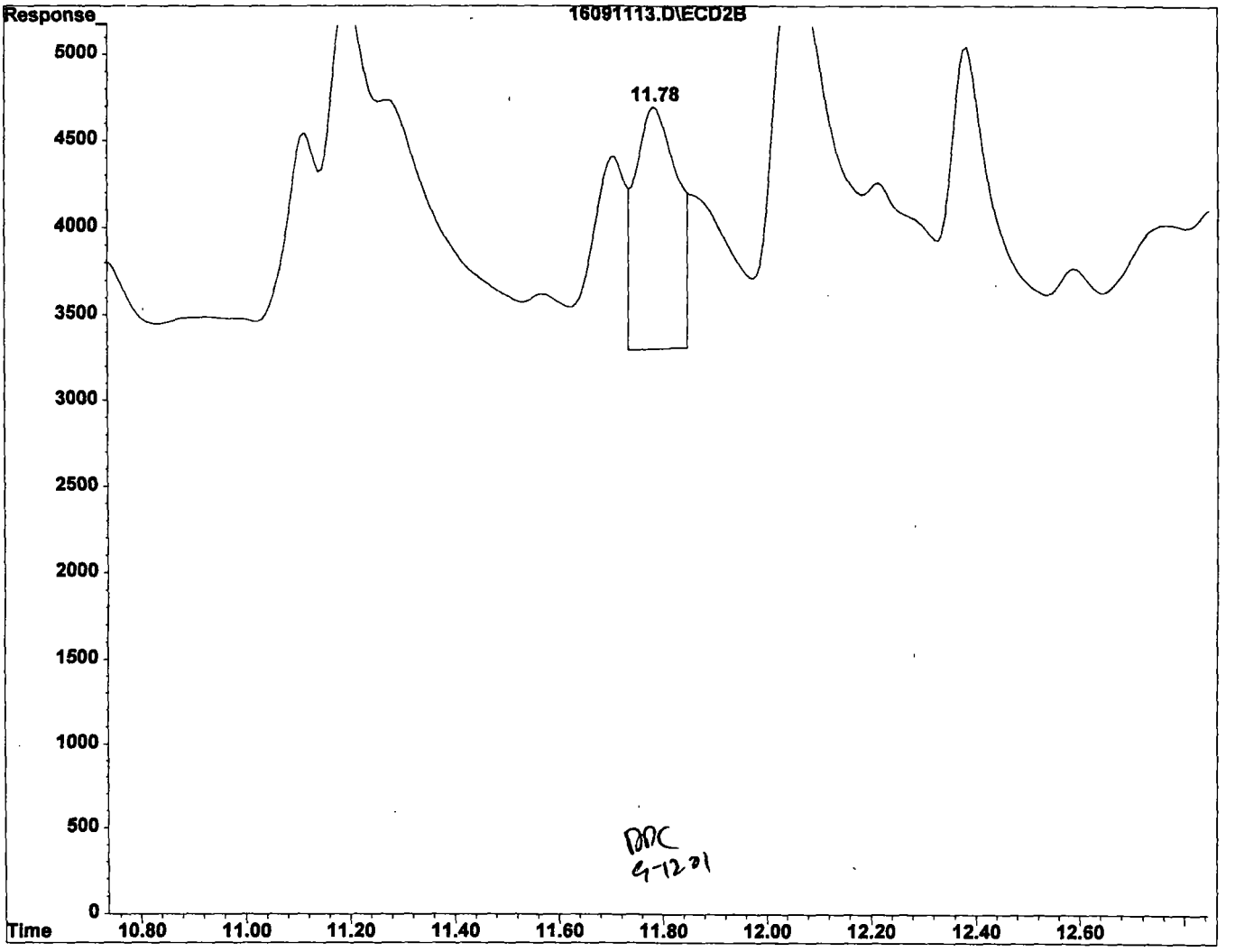
Aroclor-1254 {2} #2 11.19min area: 112272 m

Integration Time Range: 11.14 - 11.25

F:\HPCHEM\HP\16\DATA\09_11_01\16091113.D
Report generated: Wed Sep 12 11:14:44 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\09_11_01\16091113.D
Date Acquired: 11 Sep 2001 17:14
Inst: HP_16 Operator ID: DDC
Name: AR1254L3CI
Misc: 5-4-7
Method: F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title: PCB/TOXAPHENE
Quant Time: Sep 11 19:15 2001 Quant Results File: XPCBI11.RES



Aroclor-1254 {3} #2 11.78min area: 77840 m

Integration Time Range: 11.74 - 11.84

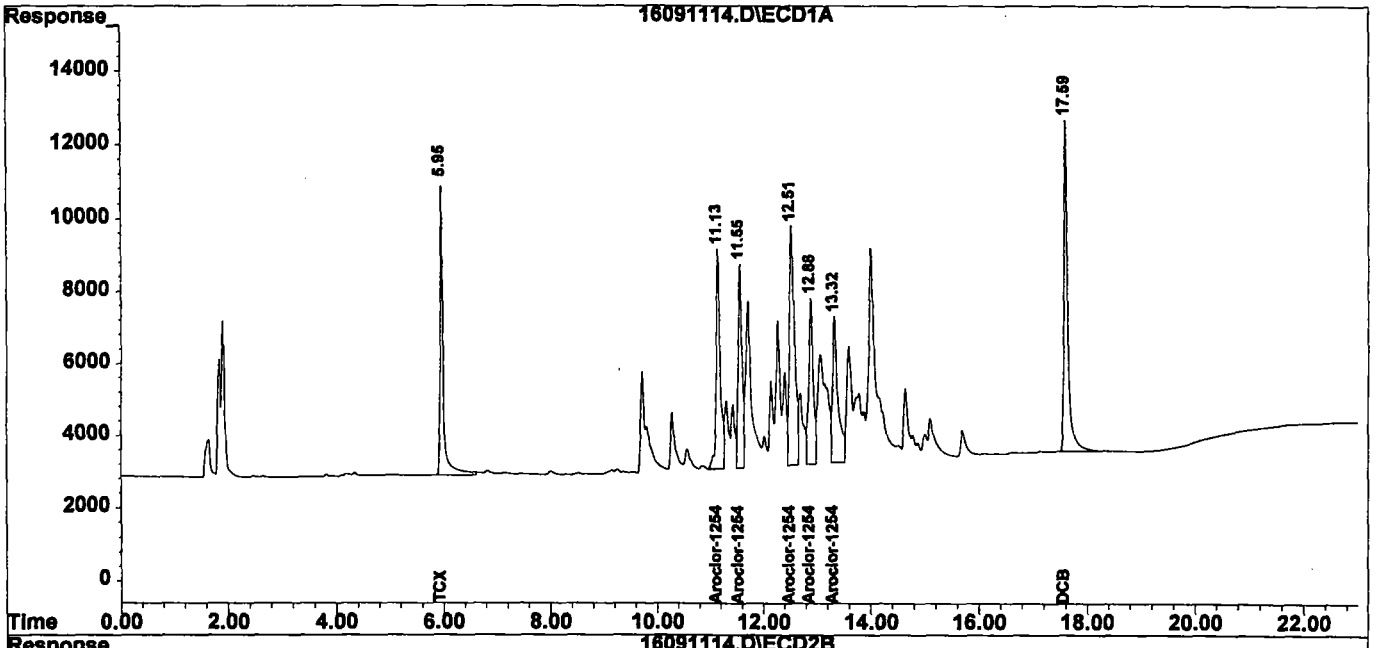
F:\HPCHEM\HP\16\DATA\09_11_01\16091113.D
Report generated: Wed Sep 12 11:14:44 2001

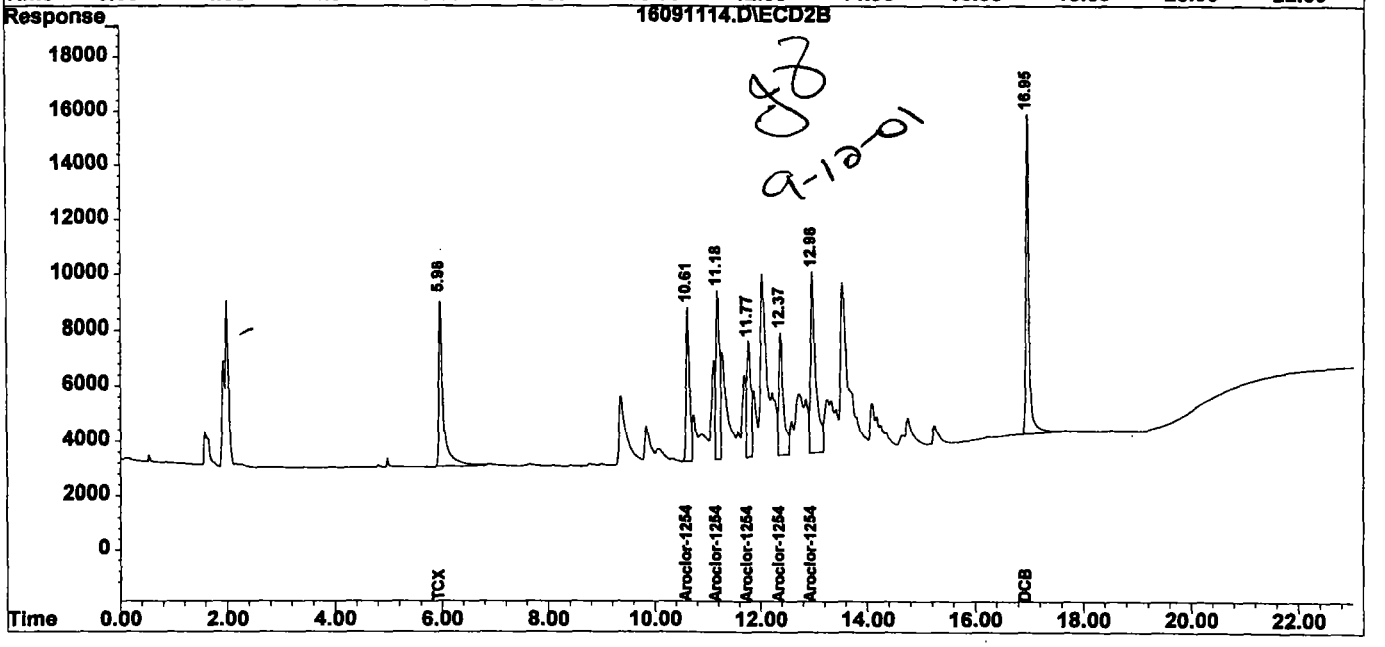
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091114.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091114.D\ECD2B.CH
Acq On : 11 Sep 2001 17:41 Operator: DDC
Sample : AR1254L4CI Inst : HP_16
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 11 19:11 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9-12-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091114.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091114.D\ECD2B.CH
Acq On : 11 Sep 2001 17:41 Operator: DDC
Sample : AR1254L4CI Inst : HP_16
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 11 19:11 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.95	5.96	326521	336604	43.1	40.9	
22)	S DCB	17.59	16.95	439879	452673	35.4	37.3	
	Target Compounds:							
12)	L6 Aroclor-1254	11.14	10.61	320147	242237	805.8	803.9	
13)	L6 Aroclor-1254 {2}	11.55	11.18	277987	297091	806.1	482.9	#
14)	L6 Aroclor-1254 {3}	12.52	11.77	433578	225963	777.4	650.4	
15)	L6 Aroclor-1254 {4}	12.88	12.37	262601	259919	843.3	874.6	
16)	L6 Aroclor-1254 {5}	13.32	12.97	288660	442814	844.9	873.2	
	Sum Aroclor-1254			1582972	1468024	4077.5	3685.1	
	Average Aroclor-1254					815.496	737.012	

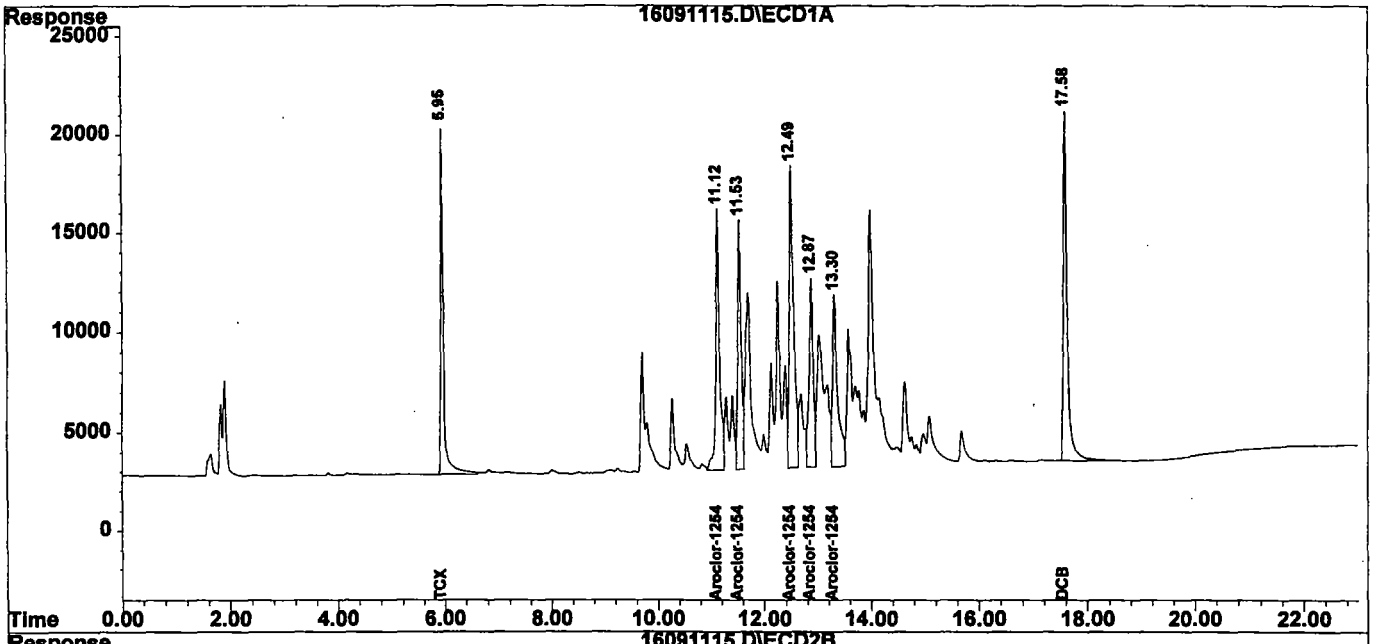
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

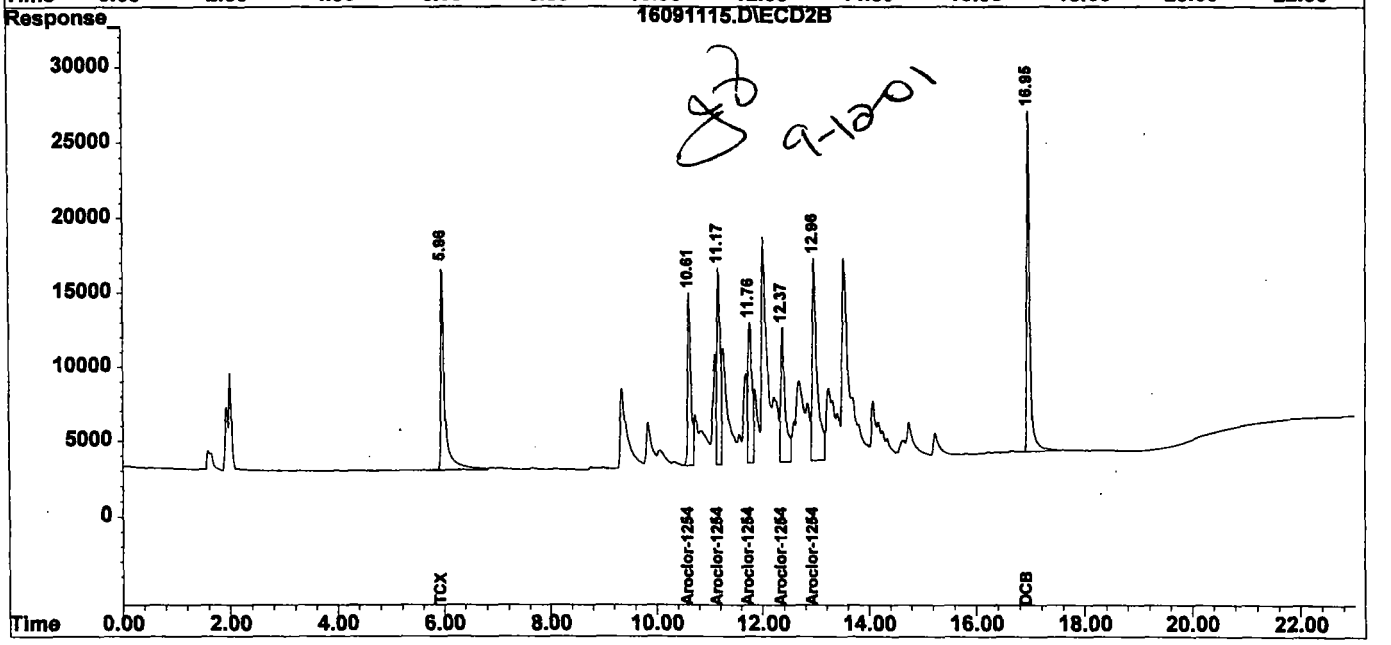
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091115.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091115.D\ECD2B.CH
Acq On : 11 Sep 2001 18:07 Operator: DDC
Sample : AR1254L5CI Inst : HP_16
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 11 19:11 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9-12-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091115.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091115.D\ECD2B.CH
Acq On : 11 Sep 2001 18:07 Operator: DDC
Sample : AR1254L5CI Inst : HP_16
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 11 19:11 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.95	5.96	652942	707910	84.7 E	86.8 E
22)	S DCB	17.59	16.95	847789	884561	68.7 E	73.7 E
	Target Compounds:						
12)	L6 Aroclor-1254	11.13	10.61	670471	482387	1661.5	1561.3
13)	L6 Aroclor-1254 {2}	11.54	11.17	549722	600118	1557.7	958.2 E#
14)	L6 Aroclor-1254 {3}	12.50	11.76	876098	476634	1537.2	1351.7 E
15)	L6 Aroclor-1254 {4}	12.88	12.37	498811	503300	1542.0 E	1621.6
16)	L6 Aroclor-1254 {5}	13.31	12.96	570799	865797	1626.5 E	1629.5 E
	Sum Aroclor-1254			3165901	2928237	7925.1	7122.4
	Average Aroclor-1254					1585.018	1424.484

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

Response Factor Report HP_16

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_10_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Calibration Files
L1 =16091116.D L2 =16091117.D L3 =16091118.D
L4 =16091119.D L5 =16091120.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
1) TCX	6.6	7.8	6.3	6.5	7.4	6.9 E3	9.36
2) Aroclor-1016	416.1	475.1	368.5	357.8	361.4	395.8	12.68
3) Aroclor-1016 {2}	261.7	325.3	263.0	260.0	193.3	260.7	17.92
4) Aroclor-1016 {3}	230.3	277.0	214.1	219.7	239.7	236.2	10.54
5) Aroclor-1016 {4}	204.4	239.7	188.2	180.8	185.6	199.7	12.03
6) Aroclor-1016 {5}	286.7	356.7	284.6	281.2	292.3	300.3	10.59
17) Aroclor-1260	521.8	658.3	536.7	525.3	545.0	557.4	10.25
18) Aroclor-1260 {2}	468.3	586.2	475.1	475.6	500.3	501.1	9.80
19) Aroclor-1260 {3}	429.5	502.3	367.7	370.3	371.4	408.2	14.36
20) Aroclor-1260 {4}	321.5	408.0	340.2	342.8	376.1	357.7	9.60
21) Aroclor-1260 {5}	838.6	1049.8	806.1	696.0	768.0	831.7	15.99
22) DCB	12.1	13.9	10.5	10.3	10.2	11.4 E3	13.99

Signal #2 Calibration Files
L1 =16091116.D L2 =16091117.D L3 =16091118.D
L4 =16091119.D L5 =16091120.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
24) TCX #2	7.0	8.6	7.3	7.7	8.7	7.9 E3	9.52
25) Aroclor-1016 #2	424.6	489.4	399.9	402.0	414.4	426.1	8.63
26) Aroclor-1016 {2} #2	199.5	208.7	154.2	186.8	179.2	185.7	11.27
27) Aroclor-1016 {3} #2	243.6	259.7	208.6	197.6	200.3	222.0	12.62
28) Aroclor-1016 {4} #2	376.7	436.3	352.8	351.3	361.9	375.8	9.40
29) Aroclor-1016 {5} #2	240.3	308.4	270.5	276.1	279.0	274.9	8.84
40) Aroclor-1260 #2	578.5	659.0	510.0	502.7	513.4	552.7	12.08
41) Aroclor-1260 {2} #2	547.0	703.2	602.5	635.1	727.6	643.1	11.45
42) Aroclor-1260 {3} #2	327.9	416.9	307.7	330.0	363.4	349.2	12.26
43) Aroclor-1260 {4} #2	861.2	1060.4	855.8	903.7	988.9	934.0	9.47
44) Aroclor-1260 {5} #2	437.3	526.1	364.4	416.0	417.2	432.2	13.65
45) DCB #2	11.4	13.5	10.5	10.5	10.5	11.3 E3	11.46

(#) = Out of Range

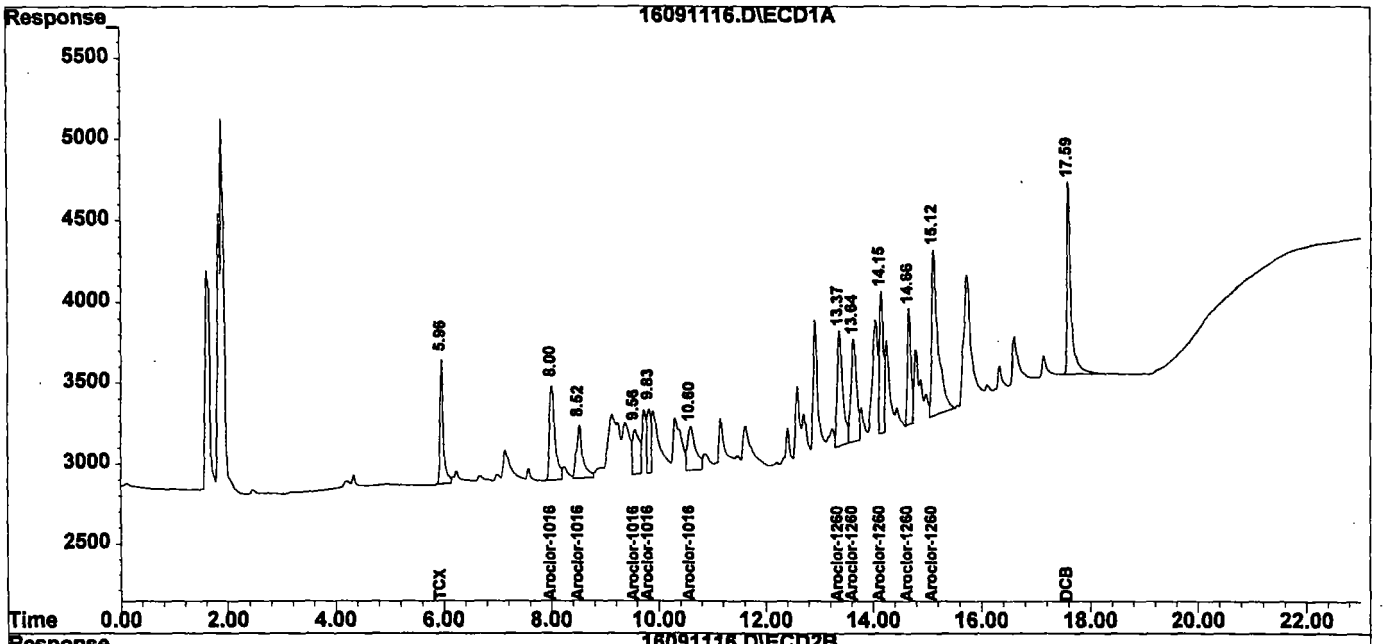
XPCBI11.M Wed Sep 12 10:55:53 2001

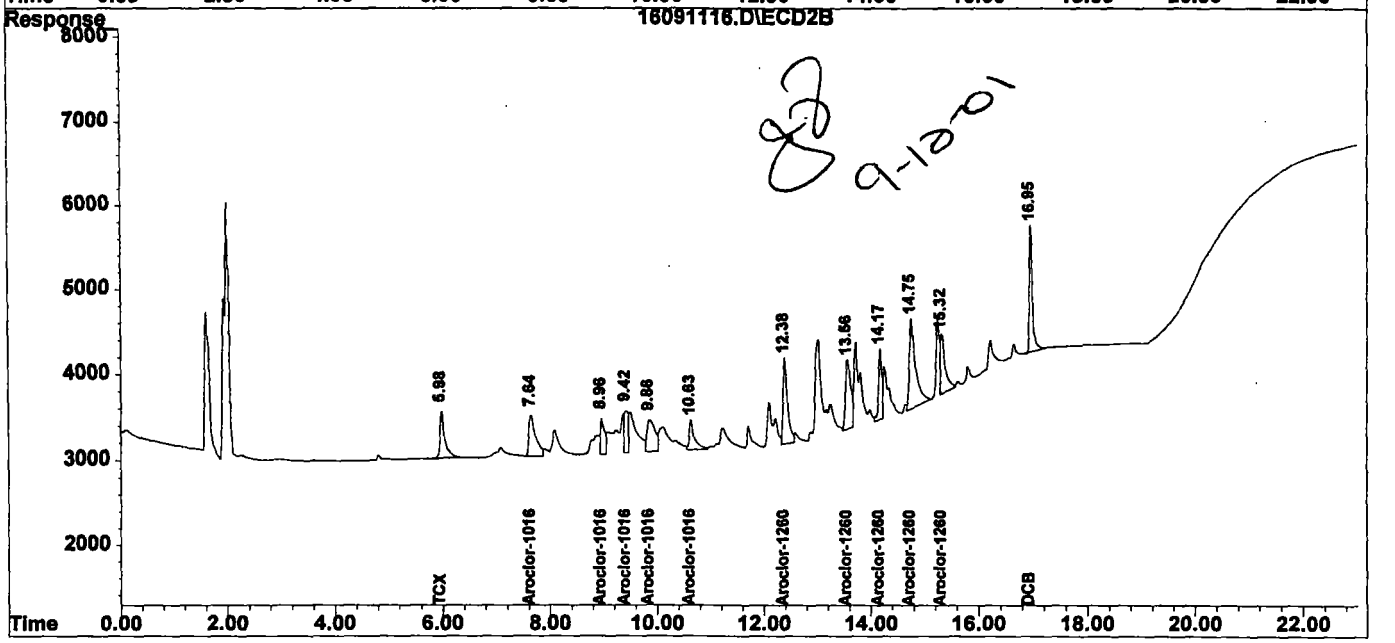
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091116.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091116.D\ECD2B.CH
Acq On : 11 Sep 2001 18:34 Operator: DDC
Sample : AR1660L1CI Inst : HP_16
Misc : 5-212-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 10:55 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_10_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9-12-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091116.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091116.D\ECD2B.CH
Acq On : 11 Sep 2001 18:34 Operator: DDC
Sample : AR1660L1CI Inst : HP_16
Misc : 5-212-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 10:55 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_10_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

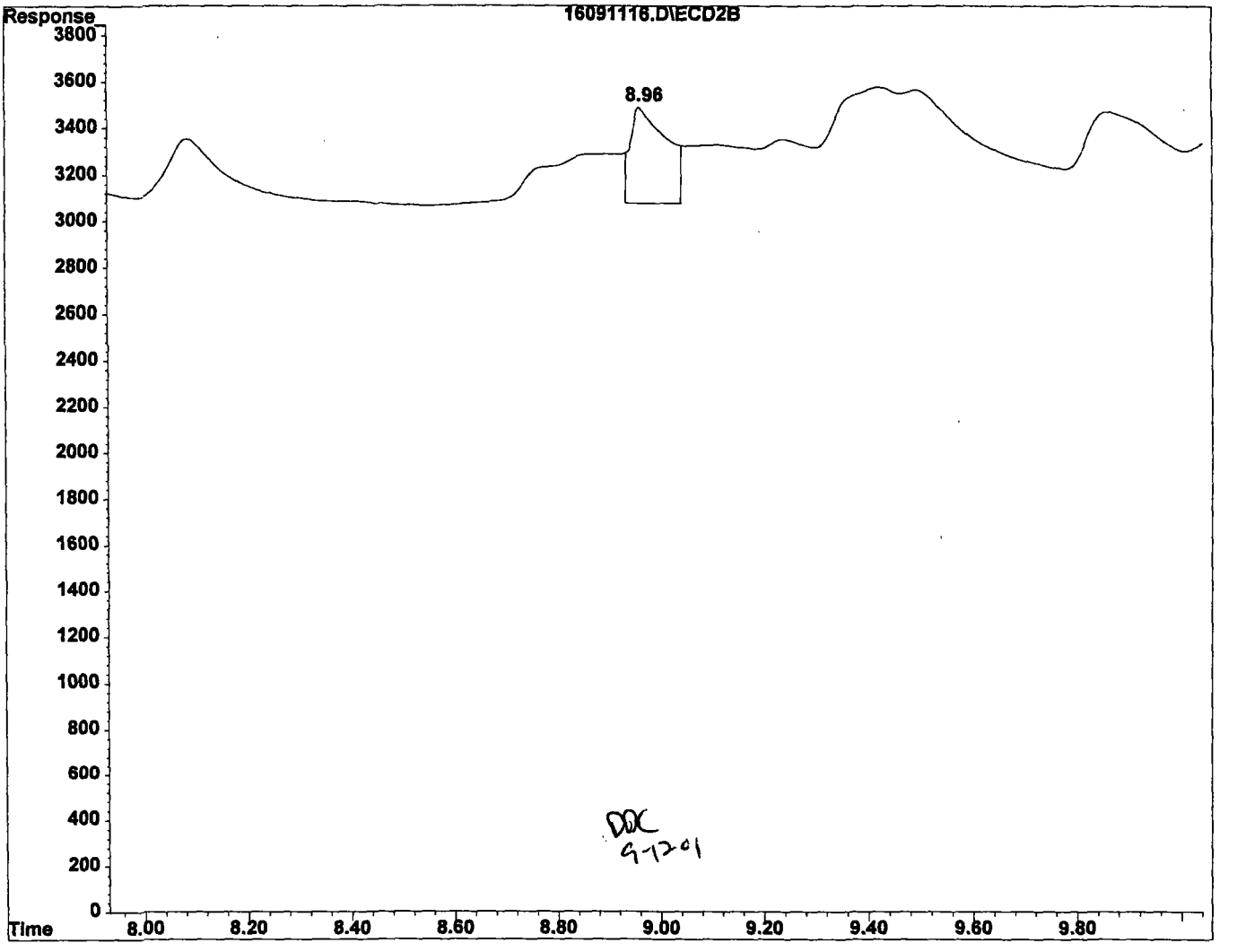
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.96	5.98	32858	34964	4.226	4.324
22)	S DCB	17.60	16.96	60743	56799	4.951	4.761
	Target Compounds:						
2)	L1 Aroclor-1016	8.01	7.64	41614	42459	122.3	124.2
3)	L1 Aroclor-1016 {2}	8.52f	8.96f	26171	19948	153.5	80.5m #
4)	L1 Aroclor-1016 {3}	9.56f	9.42	23030	24364	114.0	141.4m
5)	L1 Aroclor-1016 {4}	9.83	9.86	20437	37672	121.9	129.1
6)	L1 Aroclor-1016 {5}	10.60	10.63	28673	24027	117.6	105.5
	Sum Aroclor-1016			139925	148469	629.4	580.7
	Average Aroclor-1016					125.884	116.134
17)	L7 Aroclor-1260	13.37	12.39f	52183	57849	110.8	133.9
18)	L7 Aroclor-1260 {2}	13.64f	13.57	46834	54699	110.3	102.6
19)	L7 Aroclor-1260 {3}	14.15f	14.18f	42954	32788	129.2	121.5
20)	L7 Aroclor-1260 {4}	14.66f	14.75	32145	86124	107.1	117.5
21)	L7 Aroclor-1260 {5}	15.12	15.33f	83859	43726	122.2	133.2
	Sum Aroclor-1260			257975	275185	579.6	608.6
	Average Aroclor-1260					115.922	121.721

DDC 9-12-01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\09_11_01\16091116.D
Date Acquired: 11 Sep 2001 18:34
Inst: HP_16 Operator ID: DDC
Name: AR1660L1CI
Misc: 5-212-7
Method: F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title: PCB/TOXAPHENE
Quant Time: Sep 12 10:55 2001 Quant Results File: XPCBI11.RES



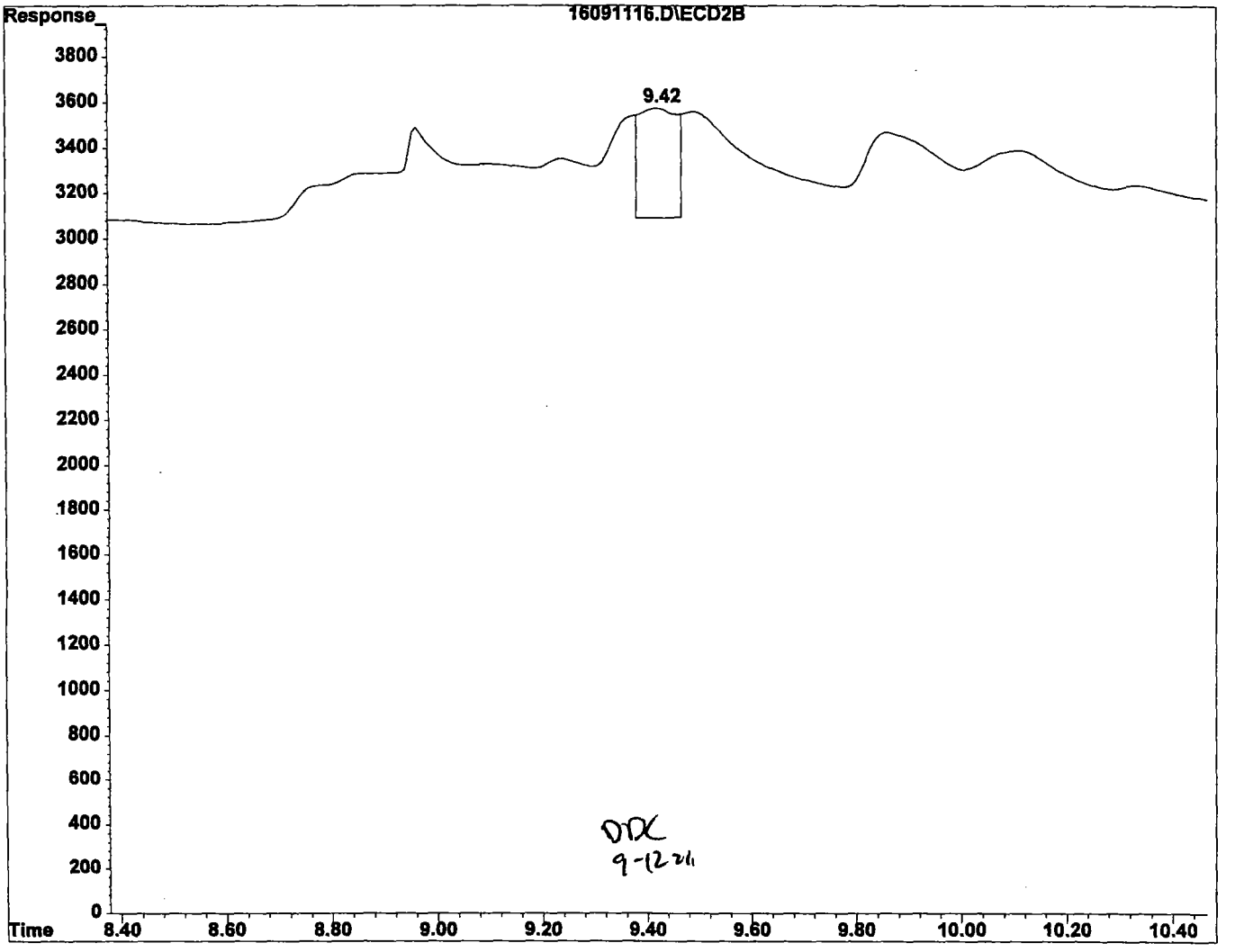
Aroclor-1016 {2} #2 8.96min area: 19948 m

Integration Time Range: 8.93 - 9.04

F:\HPCHEM\HP\16\DATA\09_11_01\16091116.D
Report generated: Wed Sep 12 11:14:47 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\09_11_01\16091116.D
Date Acquired: 11 Sep 2001 18:34
Inst: HP_16 Operator ID: DDC
Name: AR1660L1CI
Misc: 5-212-7
Method: F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title: PCB/TOXAPHENE
Quant Time: Sep 12 10:55 2001 Quant Results File: XPCBI11.RES



Aroclor-1016 {3} #2 9.42min area: 24364 m

Integration Time Range: 9.38 - 9.46

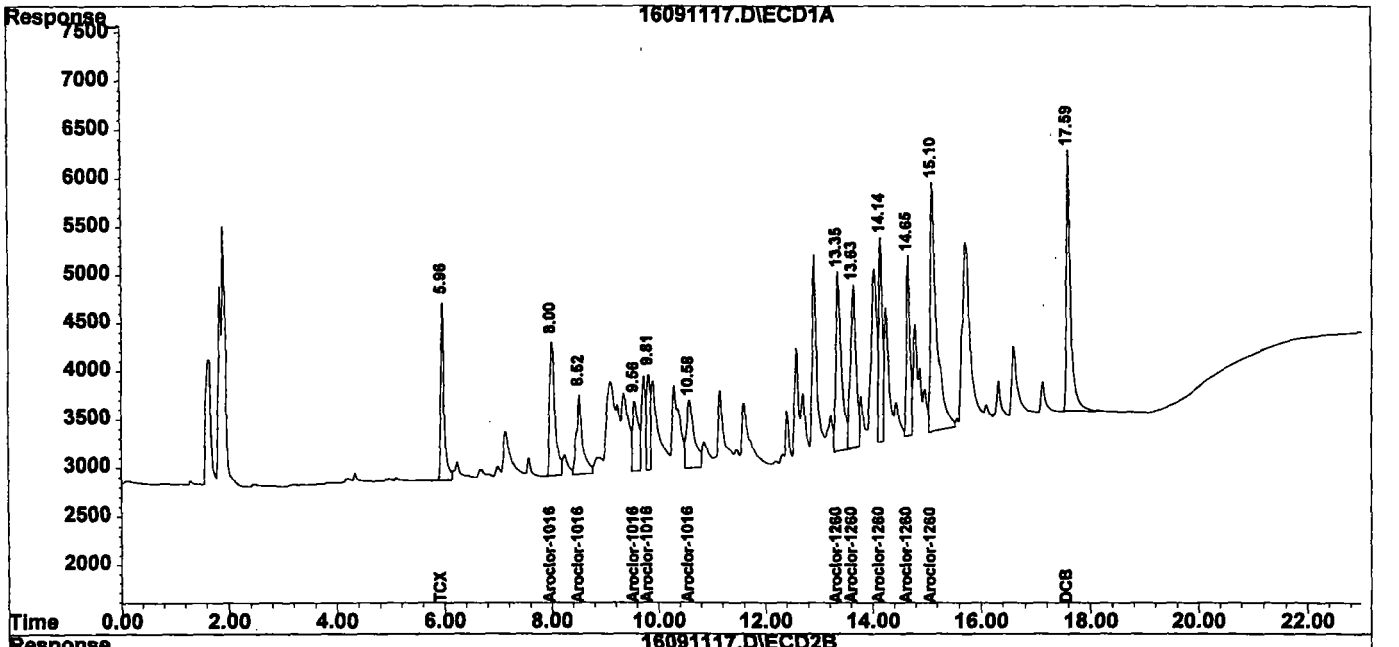
F:\HPCHEM\HP\16\DATA\09_11_01\16091116.D
Report generated: Wed Sep 12 11:14:48 2001

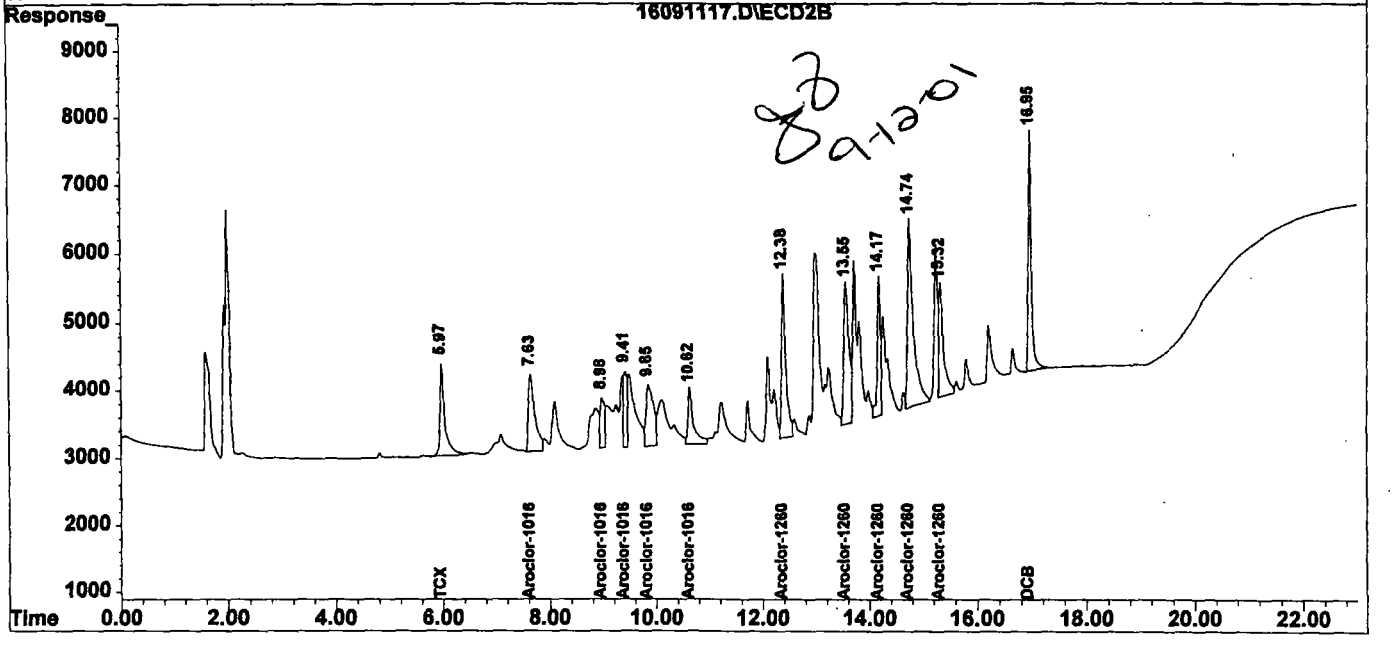
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091117.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091117.D\ECD2B.CH
Acq On : 11 Sep 2001 19:00 Operator: DDC
Sample : AR1660L2CI Inst : HP_16
Misc : 5-211-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 10:55 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_10_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091117.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091117.D\ECD2B.CH
Acq On : 11 Sep 2001 19:00 Operator: DDC
Sample : AR1660L2CI Inst : HP_16
Misc : 5-211-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 10:55 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_10_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

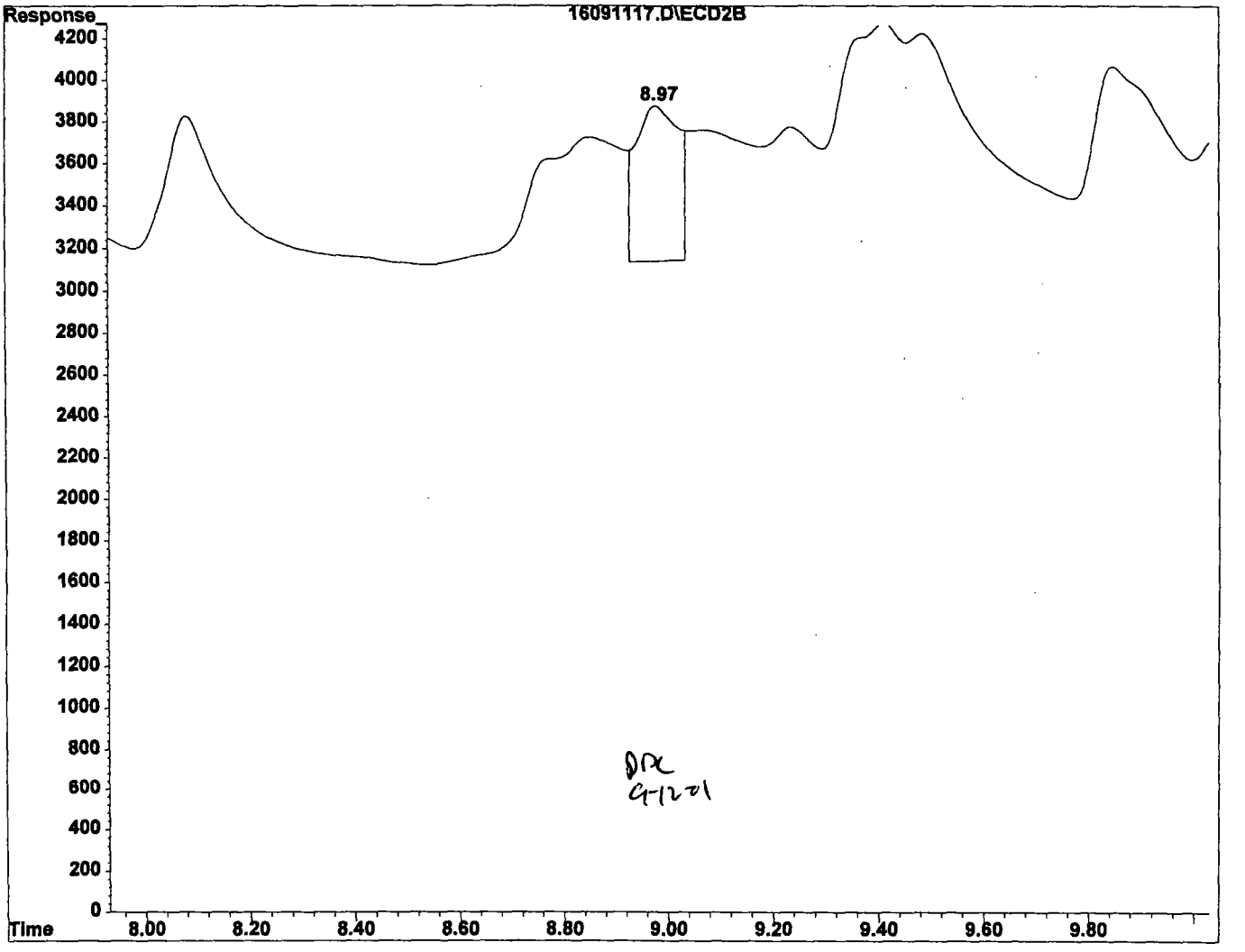
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.96	5.98	78234	85589	10.3	10.8
22)	S DCB	17.60	16.96	139229	135001	12.0	11.8
	Target Compounds:						
2)	L1 Aroclor-1016	8.00	7.64	95019	97874	274.8	278.0
3)	L1 Aroclor-1016 {2}	8.52	8.97	65058	41736	347.2	167.6m #
4)	L1 Aroclor-1016 {3}	9.56	9.41	55406	51948	267.0	242.7m
5)	L1 Aroclor-1016 {4}	9.82	9.85	47940	87267	278.7	287.2
6)	L1 Aroclor-1016 {5}	10.59	10.63	71343	61684	279.0	268.1
	Sum Aroclor-1016			334766	340510	1446.6	1243.6
	Average Aroclor-1016					289.327	248.710
17)	L7 Aroclor-1260	13.35	12.38	131666	131808	276.1	293.7
18)	L7 Aroclor-1260 {2}	13.64	13.56	117235	140639	272.4	261.6
19)	L7 Aroclor-1260 {3}	14.14	14.17	100461	83371	292.1	297.9
20)	L7 Aroclor-1260 {4}	14.66	14.74	81607	212083	269.2	281.5
21)	L7 Aroclor-1260 {5}	15.11	15.32	209953	105228	302.9	303.4
	Sum Aroclor-1260			640921	673130	1412.6	1438.1
	Average Aroclor-1260					282.513	287.622

DDC 9-12-01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\09_11_01\16091117.D
Date Acquired: 11 Sep 2001 19:00
Inst: HP_16 Operator ID: DDC
Name: AR1660L2CI
Misc: 5-211-7
Method: F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title: PCB/TOXAPHENE
Quant Time: Sep 12 10:55 2001 Quant Results File: XPCBI11.RES



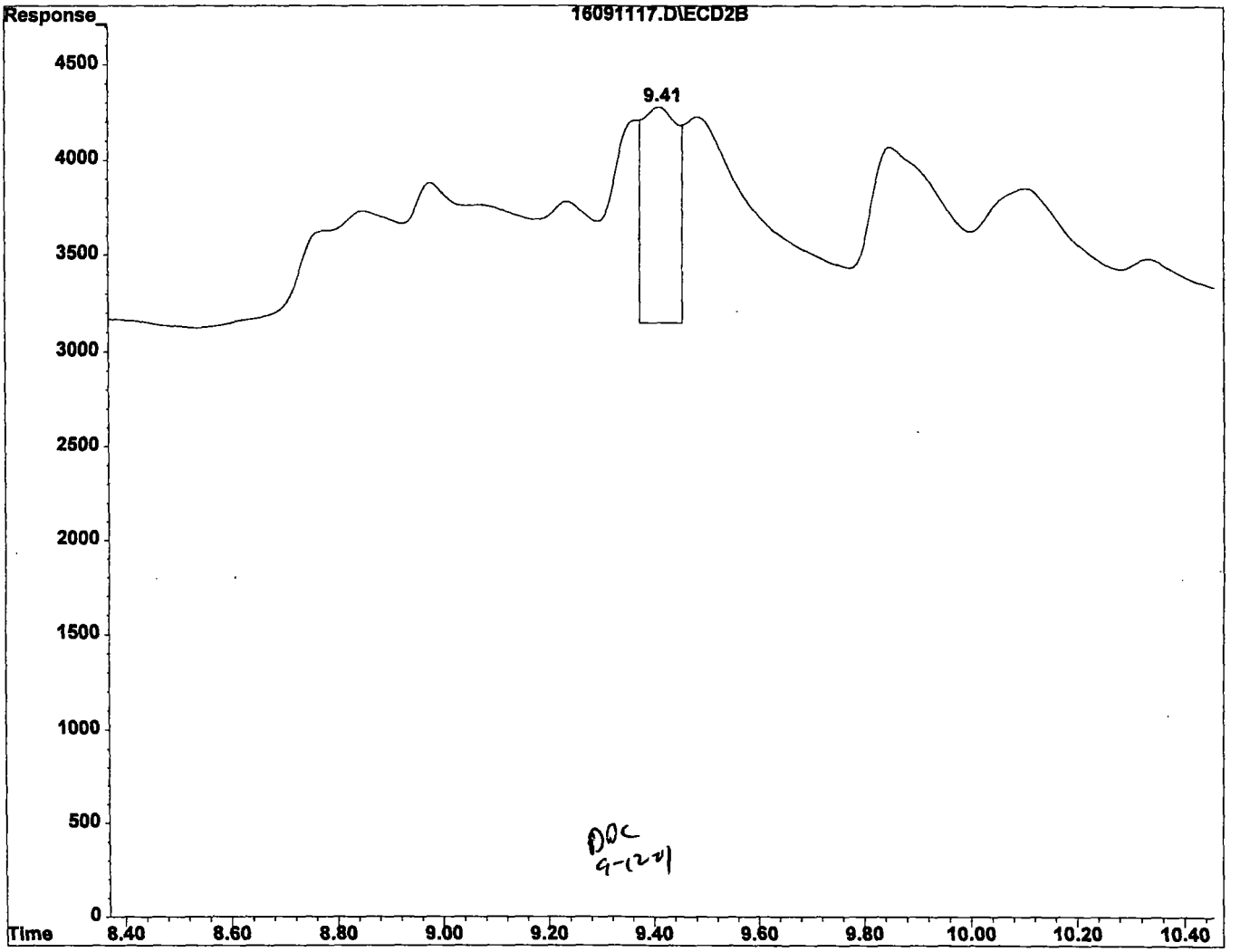
Aroclor-1016 {2} #2 8.97min area: 41736 m

Integration Time Range: 8.93 - 9.03

F:\HPCHEM\HP\16\DATA\09_11_01\16091117.D
Report generated: Wed Sep 12 11:14:49 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\09_11_01\16091117.D
Date Acquired: 11 Sep 2001 19:00
Inst: HP_16 Operator ID: DDC
Name: AR1660L2CI
Misc: 5-211-7
Method: F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title: PCB/TOXAPHENE
Quant Time: Sep 12 10:55 2001 Quant Results File: XPCBI11.RES



Aroclor-1016 {3} #2 9.41min area: 51948 m

Integration Time Range: 9.37 - 9.45

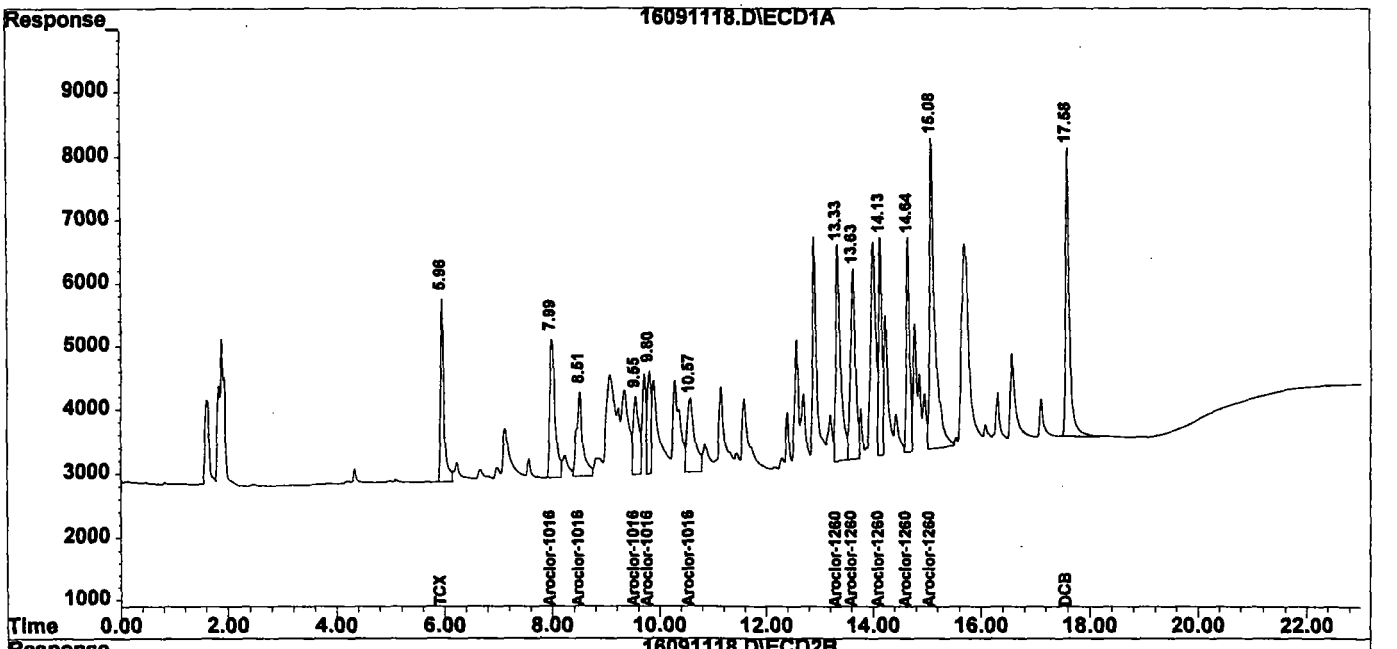
F:\HPCHEM\HP\16\DATA\09_11_01\16091117.D
Report generated: Wed Sep 12 11:14:49 2001

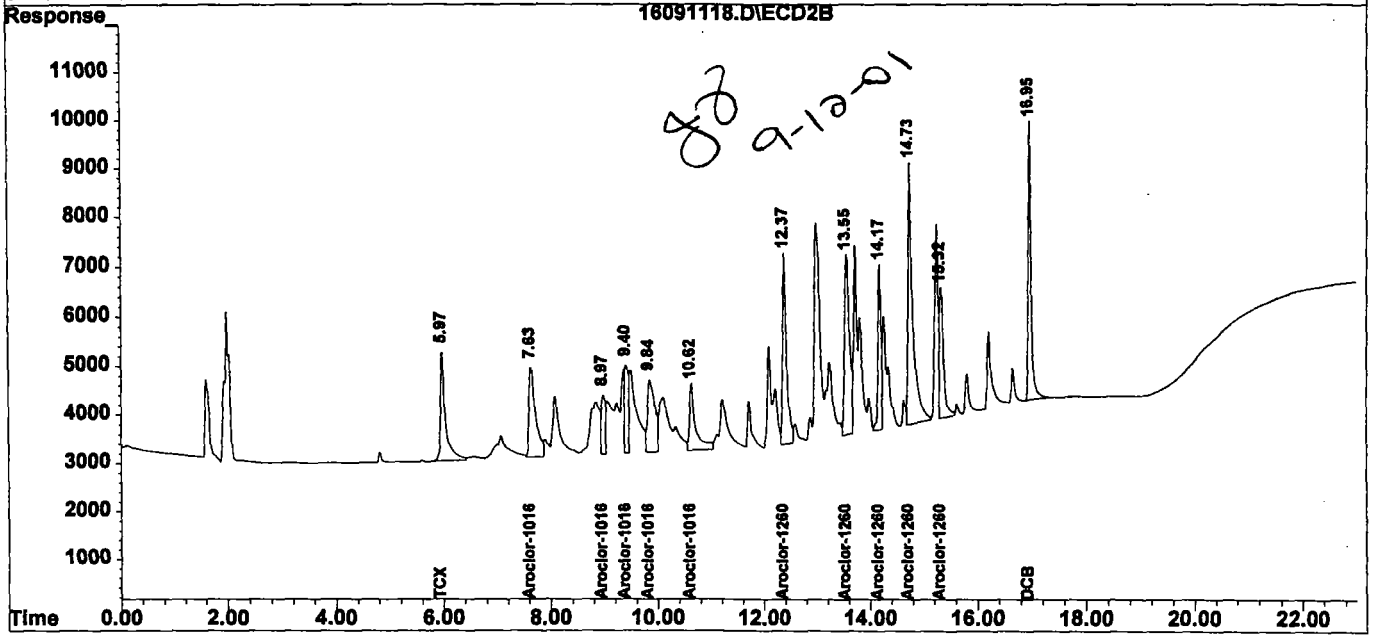
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091118.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091118.D\ECD2B.CH
Acq On : 11 Sep 2001 19:27 Operator: DDC
Sample : AR1660L3CN Inst : HP_16
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 10:52 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_10_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





8 9-12-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091118.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091118.D\ECD2B.CH
Acq On : 11 Sep 2001 19:27 Operator: DDC
Sample : AR1660L3CN Inst : HP_16
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 10:52 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_10_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

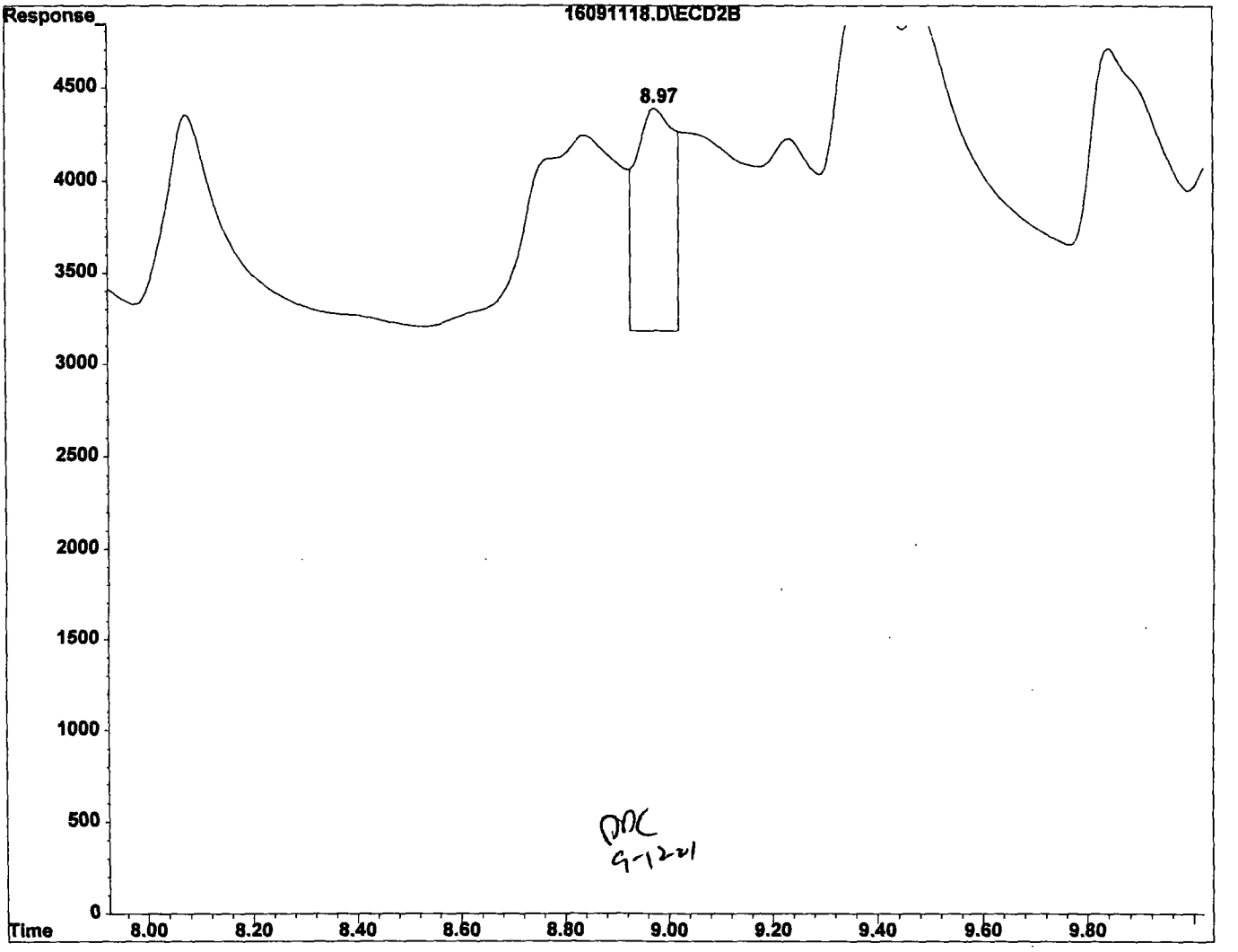
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.96	5.97	126260	146579	17.1	18.7
22)	S DCB	17.59	16.95	210797	210352	18.5	18.7
	Target Compounds:						
2)	L1 Aroclor-1016	7.99	7.63	147384	159964	393.3	414.7
3)	L1 Aroclor-1016 {2}	8.51	8.97	105220	61684	479.4	251.0m #
4)	L1 Aroclor-1016 {3}	9.55	9.41	85637	83449	379.3	307.0
5)	L1 Aroclor-1016 {4}	9.80	9.84	75283	141123	400.4	418.9
6)	L1 Aroclor-1016 {5}	10.58	10.62	113825	108219	404.5	430.7
	Sum Aroclor-1016			527349	554439	2056.9	1822.3
	Average Aroclor-1016					411.372	364.462
17)	L7 Aroclor-1260	13.33	12.38	214668	203988	410.7	409.8
18)	L7 Aroclor-1260 {2}	13.63	13.55	190028	241009	403.9	412.1
19)	L7 Aroclor-1260 {3}	14.13	14.17	147064	123083	385.3	390.8
20)	L7 Aroclor-1260 {4}	14.65	14.73	136061	342335	409.7	410.7
21)	L7 Aroclor-1260 {5}	15.08	15.32	322441	145775	422.2	373.5
	Sum Aroclor-1260			1010263	1056189	2031.7	1996.9
	Average Aroclor-1260					406.348	399.390

DDC 9-12-01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\09_11_01\16091118.D
Date Acquired: 11 Sep 2001 19:27
Inst: HP_16 Operator ID: DDC
Name: AR1660L3CN
Misc: 5-210-7
Method: F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title: PCB/TOXAPHENE
Quant Time: Sep 12 10:52 2001 Quant Results File: XPCBI11.RES



Aroclor-1016 {2} #2 8.97min area: 61684 m

Integration Time Range: 8.93 - 9.02

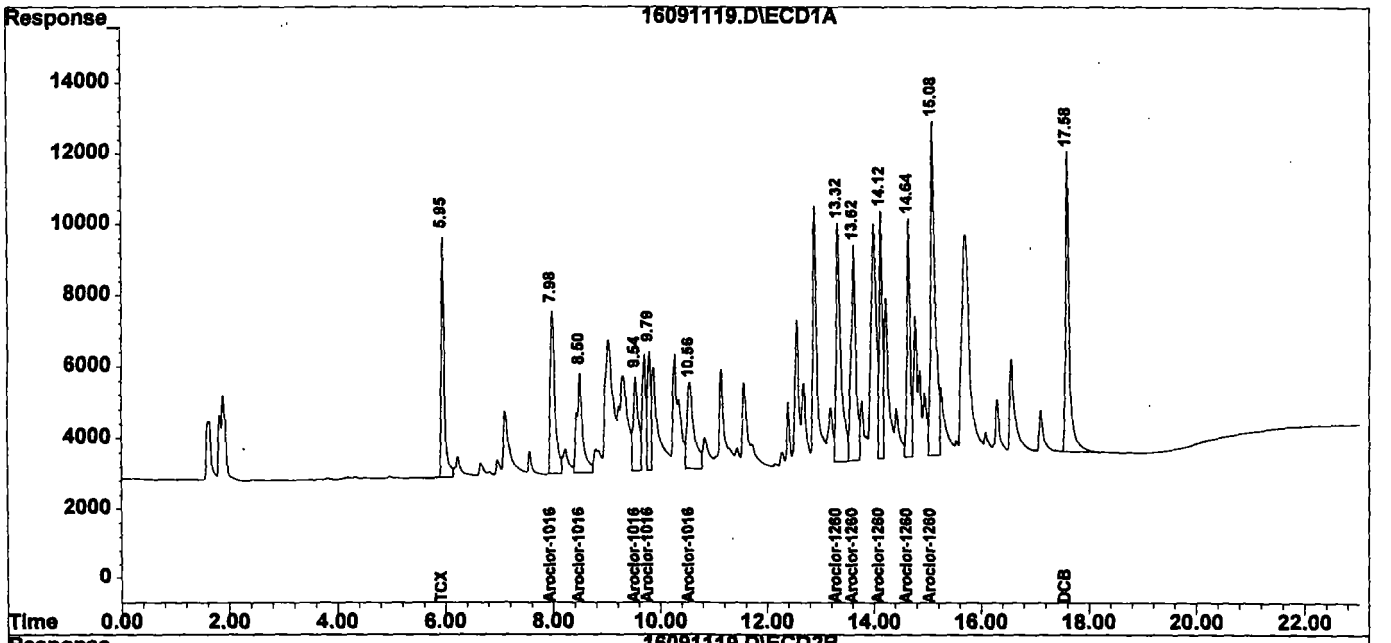
F:\HPCHEM\HP\16\DATA\09_11_01\16091118.D
Report generated: Wed Sep 12 11:14:51 2001

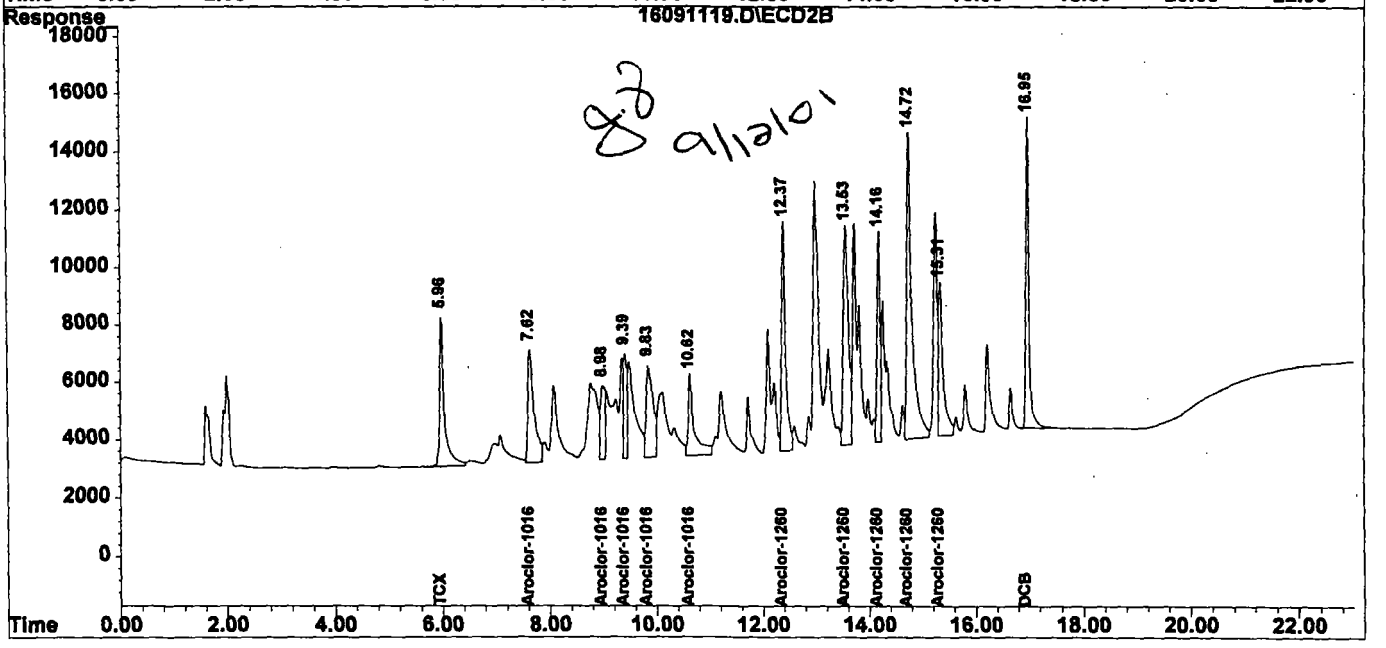
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091119.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091119.D\ECD2B.CH
Acq On : 11 Sep 2001 19:53 Operator: DDC
Sample : AR1660L4CI Inst : HP_16
Misc : 5-209-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 10:51 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_10_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





8.8 9/12/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091119.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091119.D\ECD2B.CH
Acq On : 11 Sep 2001 19:53 Operator: DDC
Sample : AR1660L4CI Inst : HP_16
Misc : 5-209-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 10:51 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_10_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

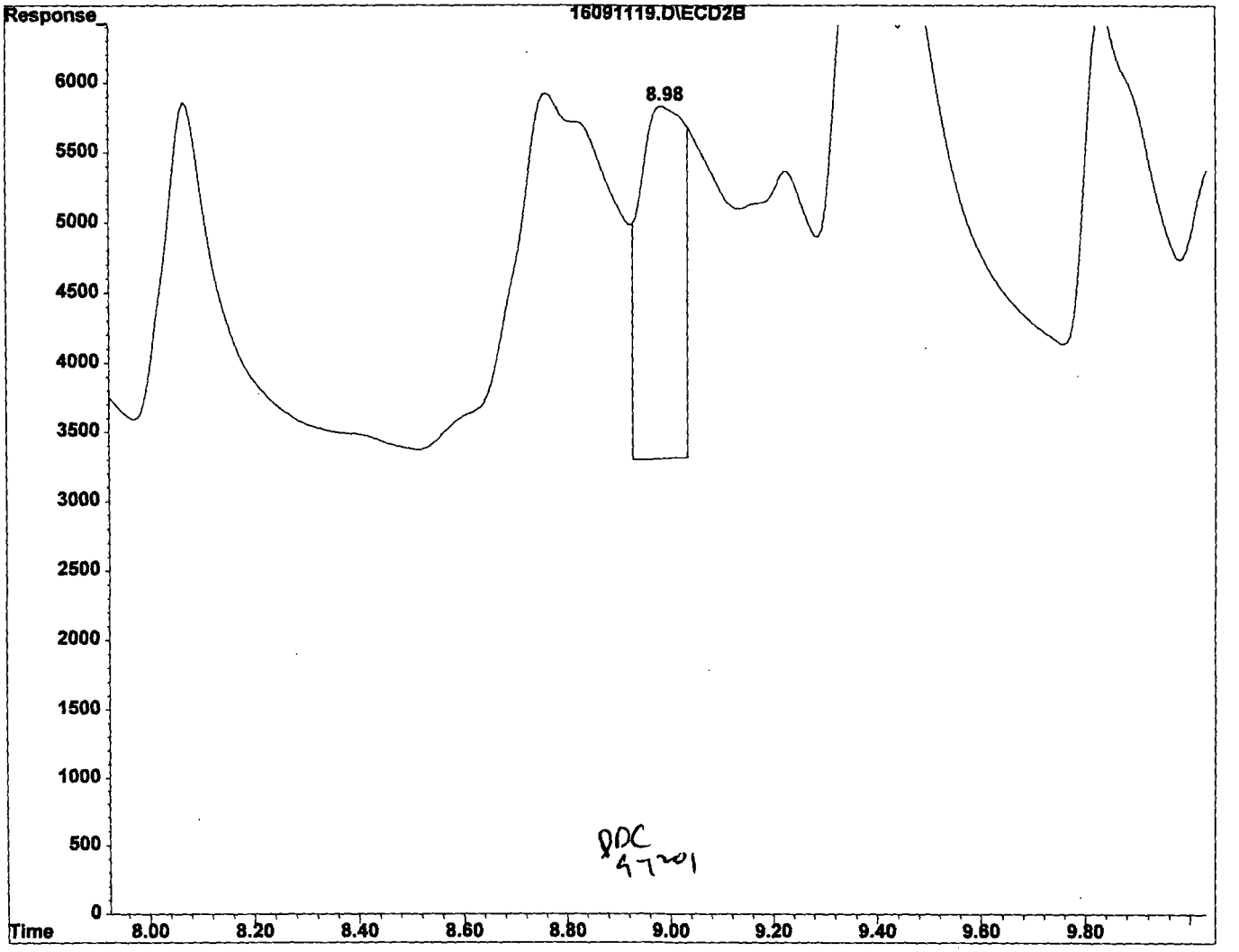
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.95	5.97	261376	309376	35.3	38.5	
22)	S DCB	17.59	16.95	412300	419630	35.4	36.3	
	Target Compounds:							
2)	L1 Aroclor-1016	7.98	7.62	286214	321619	765.4	823.8	DDC 9-12-01
3)	L1 Aroclor-1016 {2}	8.51	8.98	208033	149432	891.5	562.2m	#
4)	L1 Aroclor-1016 {3}	9.54	9.40	175722	158050	787.2	573.7	#
5)	L1 Aroclor-1016 {4}	9.79	9.83	144672	281009	768.7	819.6	
6)	L1 Aroclor-1016 {5}	10.56	10.62	224921	220884	798.0	870.9	
	Sum Aroclor-1016			1039562	1130995	4010.8	3650.2	
	Average Aroclor-1016					802.152	730.045	
17)	L7 Aroclor-1260	13.32	12.37	420213	402182	803.4	796.0	
18)	L7 Aroclor-1260 {2}	13.62	13.54	380503	508085	810.7	865.9	
19)	L7 Aroclor-1260 {3}	14.12	14.16	296226	263982	777.6	833.2	
20)	L7 Aroclor-1260 {4}	14.64	14.72	274216	722940	825.4	855.8	
21)	L7 Aroclor-1260 {5}	15.08	15.32	556777	332763	711.8	851.6	
	Sum Aroclor-1260			1927936	2229952	3928.8	4202.4	
	Average Aroclor-1260					785.759	840.477	

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\09_11_01\16091119.D
Date Acquired: 11 Sep 2001 19:53
Inst: HP_16 Operator ID: DDC
Name: AR1660L4CI
Misc: 5-209-7
Method: F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title: PCB/TOXAPHENE
Quant Time: Sep 12 10:51 2001 Quant Results File: XPCBI11.RES



Aroclor-1016 {2} #2 8.98min area: 149432 m

Integration Time Range: 8.92 - 9.03

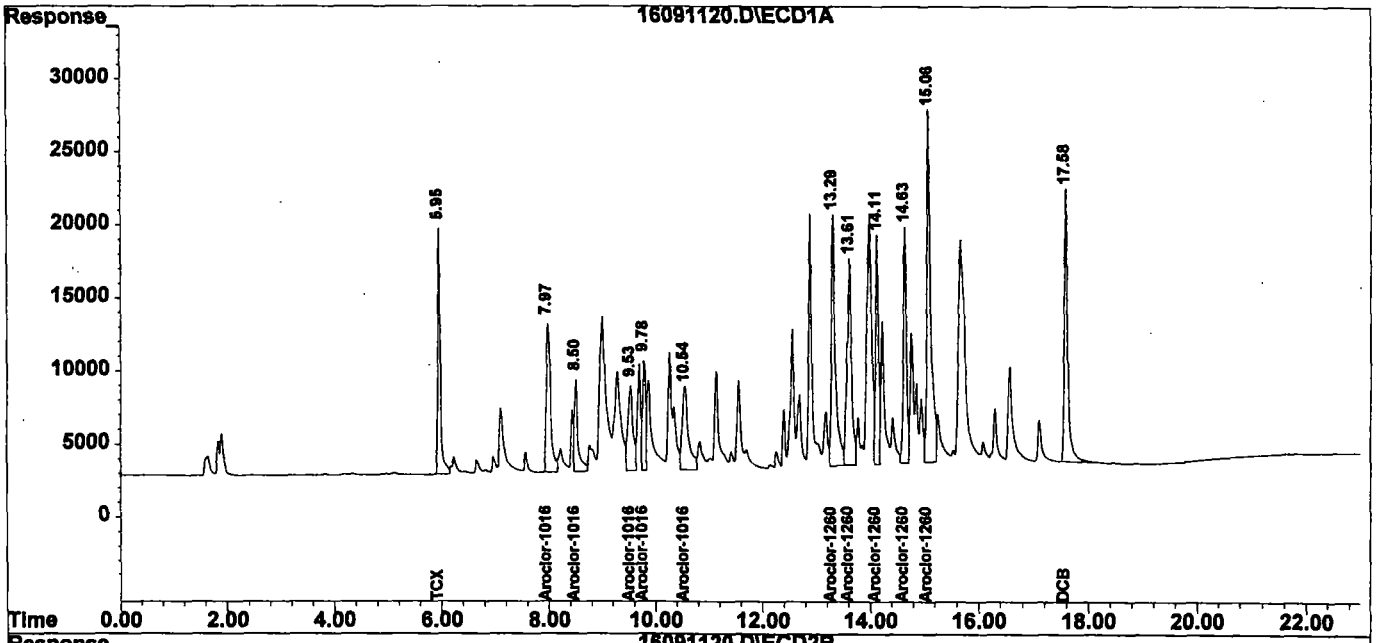
F:\HPCHEM\HP\16\DATA\09_11_01\16091119.D
Report generated: Wed Sep 12 11:14:52 2001

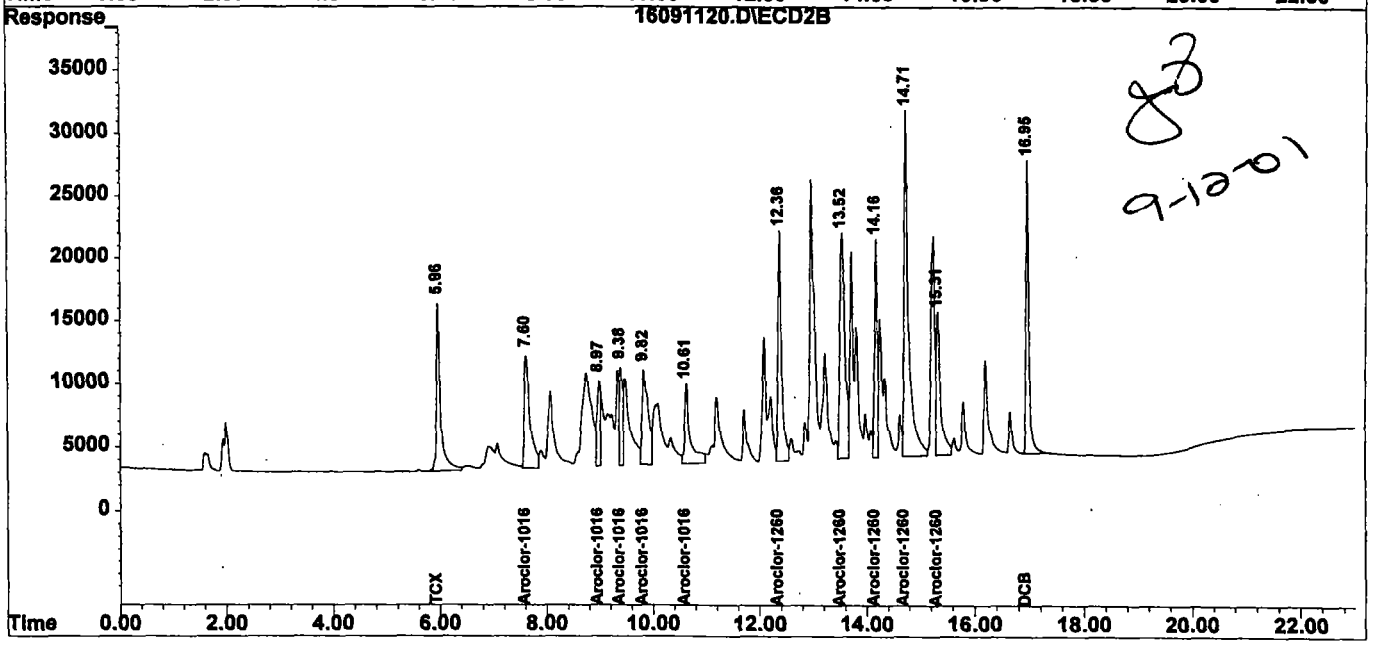
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091120.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091120.D\ECD2B.CH
Acq On : 11 Sep 2001 20:19 Operator: DDC
Sample : AR1660L5CI Inst : HP_16
Misc : 5-208-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 10:48 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_10_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





gB
9-12-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091120.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091120.D\ECD2B.CH
Acq On : 11 Sep 2001 20:19 Operator: DDC
Sample : AR1660L5CI Inst : HP_16
Misc : 5-208-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 10:48 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_10_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

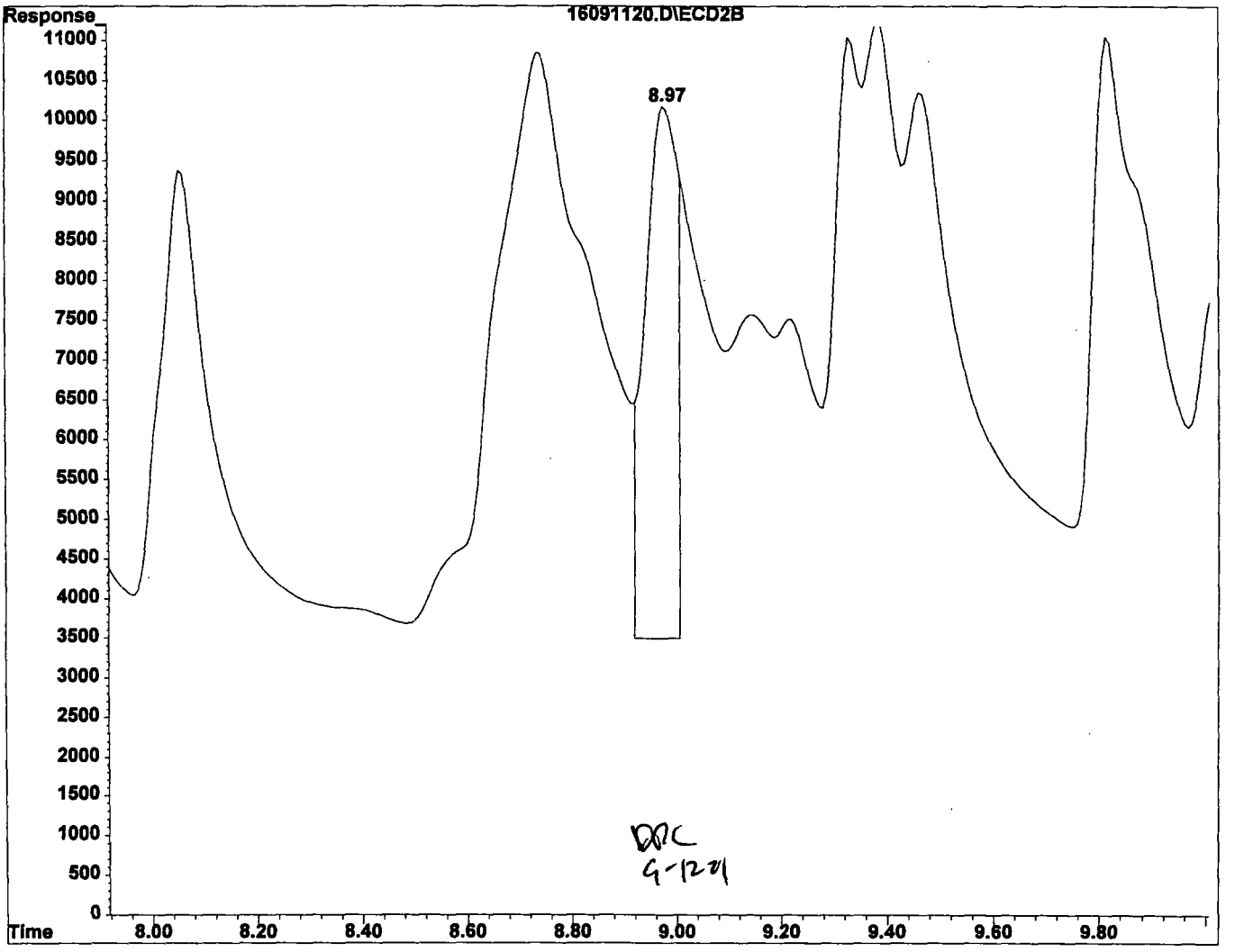
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.95	5.96	591697	695971	83.6	88.2 E
22)	S DCB	17.58	16.95	818457	843324	71.1	74.1
	Target Compounds:						
2)	L1 Aroclor-1016	7.97	7.60	578311	663060	1536.0 E	1661.0
3)	L1 Aroclor-1016 {2}	8.50	8.97	309206	286776	1239.2	1016.7m
4)	L1 Aroclor-1016 {3}	9.53	9.38	383500	320552	1718.2	1146.3 #
5)	L1 Aroclor-1016 {4}	9.78	9.82	296982	578993	1568.1	1647.2
6)	L1 Aroclor-1016 {5}	10.54	10.61	467651	446321	1645.9 E	1726.0
	Sum Aroclor-1016			2035650	2295701	7707.4	7197.2
	Average Aroclor-1016					1541.487	1439.449
17)	L7 Aroclor-1260	13.30	12.36	871939	821379	1656.5	1587.0 E
18)	L7 Aroclor-1260 {2}	13.61	13.52	800447	1164093	1694.1	1958.5 E
19)	L7 Aroclor-1260 {3}	14.12	14.16	594315	581394	1539.0	1796.5 E
20)	L7 Aroclor-1260 {4}	14.63	14.71	601827	1582171	1798.8 E	1829.0 E
21)	L7 Aroclor-1260 {5}	15.06	15.31	1228741	667534	1565.1 E	1652.7 E
	Sum Aroclor-1260			4097269	4816572	8253.6	8823.7
	Average Aroclor-1260					1650.714	1764.748

DDC 9-12-01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\09_11_01\16091120.D
Date Acquired: 11 Sep 2001 20:19
Inst: HP_16 Operator ID: DDC
Name: AR1660L5CI
Misc: 5-208-7
Method: F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title: PCB/TOXAPHENE
Quant Time: Sep 12 10:48 2001 Quant Results File: XPCBI11.RES



Aroclor-1016 {2} #2 8.97min area: 286776 m

Integration Time Range: 8.92 - 9.01

F:\HPCHEM\HP\16\DATA\09_11_01\16091120.D
Report generated: Wed Sep 12 11:14:53 2001

Continuing Calibration Report HP_16

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Fri Sep 14 08:19:57 2001
Response via : Initial Calibration

Continuing Calibration File: 16091135.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	6.928	7.281	E3	-5.1	115
2	L1	Aroclor-1016	395.782	423.310		-7.0	115
3	L1	Aroclor-1016 {2}	260.669	304.556		-16.8#	116
4	L1	Aroclor-1016 {3}	236.153	252.029		-6.7	118
5	L1	Aroclor-1016 {4}	199.746	215.789		-8.0	115
6	L1	Aroclor-1016 {5}	300.287	329.969		-9.9	116
17	L7	Aroclor-1260	557.411	620.045		-11.2	116
18	L7	Aroclor-1260 {2}	501.098	548.433		-9.4	115
19	L7	Aroclor-1260 {3}	408.246	416.393		-2.0	113
20	L7	Aroclor-1260 {4}	357.710	397.594		-11.1	117
21	L7	Aroclor-1260 {5}	831.679	808.550		2.8	100
22	S	DCB	11.430	10.850	E3	5.1	103

Signal #2
Continuing Calibration File: 16091135.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	7.863	8.502	E3	-8.1	116
2	L1	Aroclor-1016	426.061	462.823		-8.6	116
3	L1	Aroclor-1016 {2}	185.679	184.540		0.6	120
4	L1	Aroclor-1016 {3}	221.982	236.440		-6.5	113
5	L1	Aroclor-1016 {4}	375.798	400.906		-6.7	114
6	L1	Aroclor-1016 {5}	274.859	313.323		-14.0	116
17	L7	Aroclor-1260	552.718	590.348		-6.8	116
18	L7	Aroclor-1260 {2}	643.074	736.768		-14.6	122
19	L7	Aroclor-1260 {3}	349.158	374.906		-7.4	122
20	L7	Aroclor-1260 {4}	934.005	984.284		-5.4	115
21	L7	Aroclor-1260 {5}	432.199	372.915		13.7	102
22	S	DCB	11.282	11.611	E3	-2.9	110

(#) = Out of Range SPCC's out = 0 CCC's out = 0

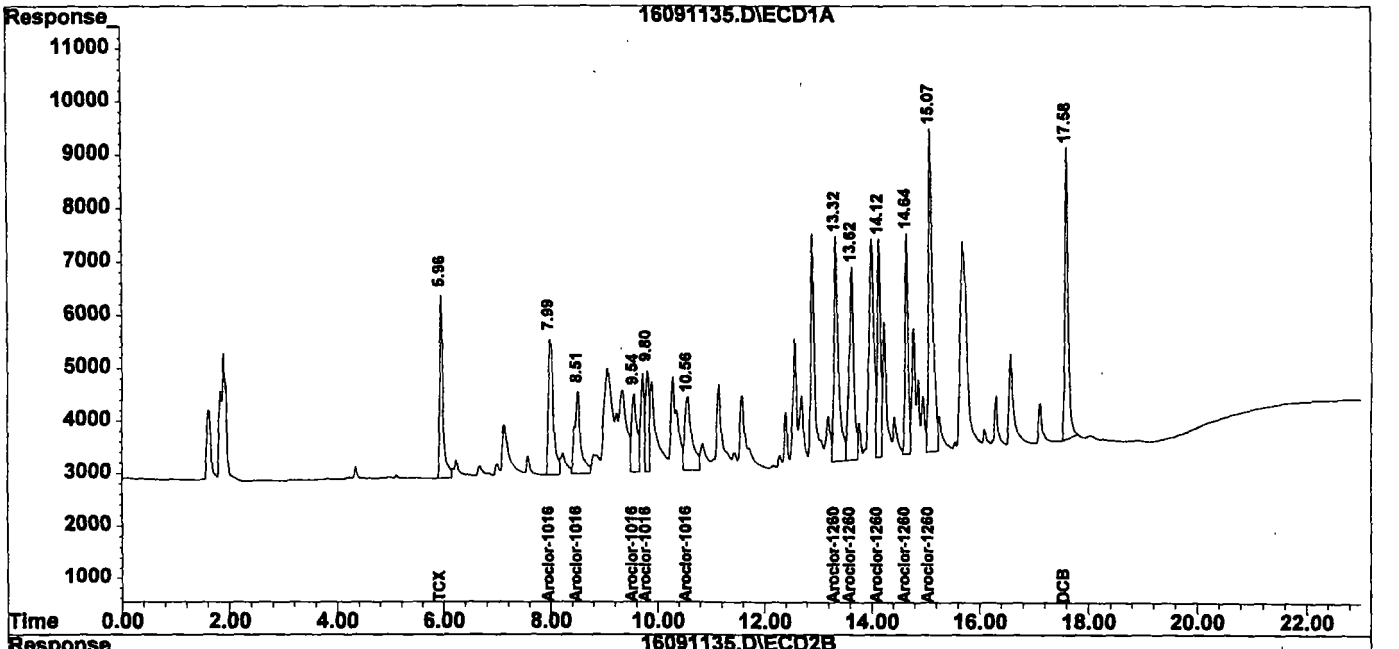
16091135.D XPCBI11.M Fri Sep 14 08:20:02 2001

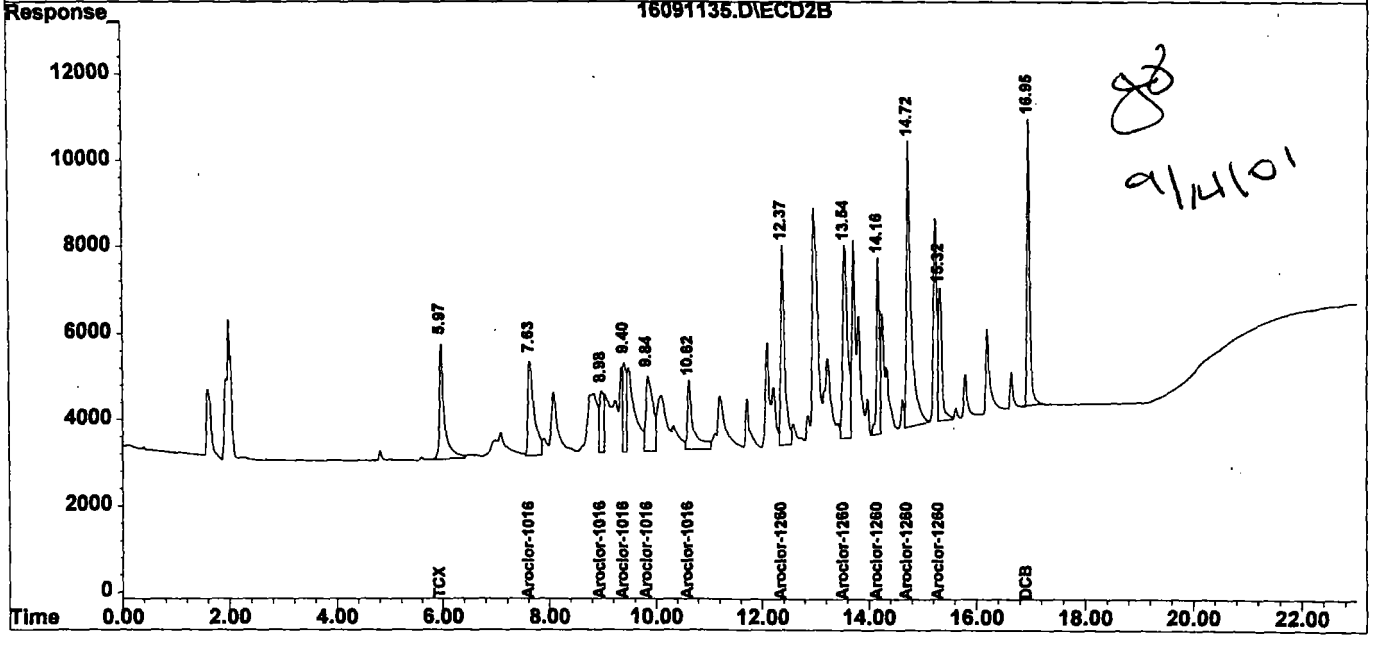
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091135.D\ECD1A.CH Vial: 39
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091135.D\ECD2B.CH
Acq On : 12 Sep 2001 2:56 Operator: DDC
Sample : AR1660L3CO Inst : HP_16
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 14 8:19 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091135.D\ECD1A.CH Vial: 39
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091135.D\ECD2B.CH
Acq On : 12 Sep 2001 2:56 Operator: DDC
Sample : AR1660L3CO Inst : HP_16
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 14 8:19 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Fri Sep 14 08:19:57 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

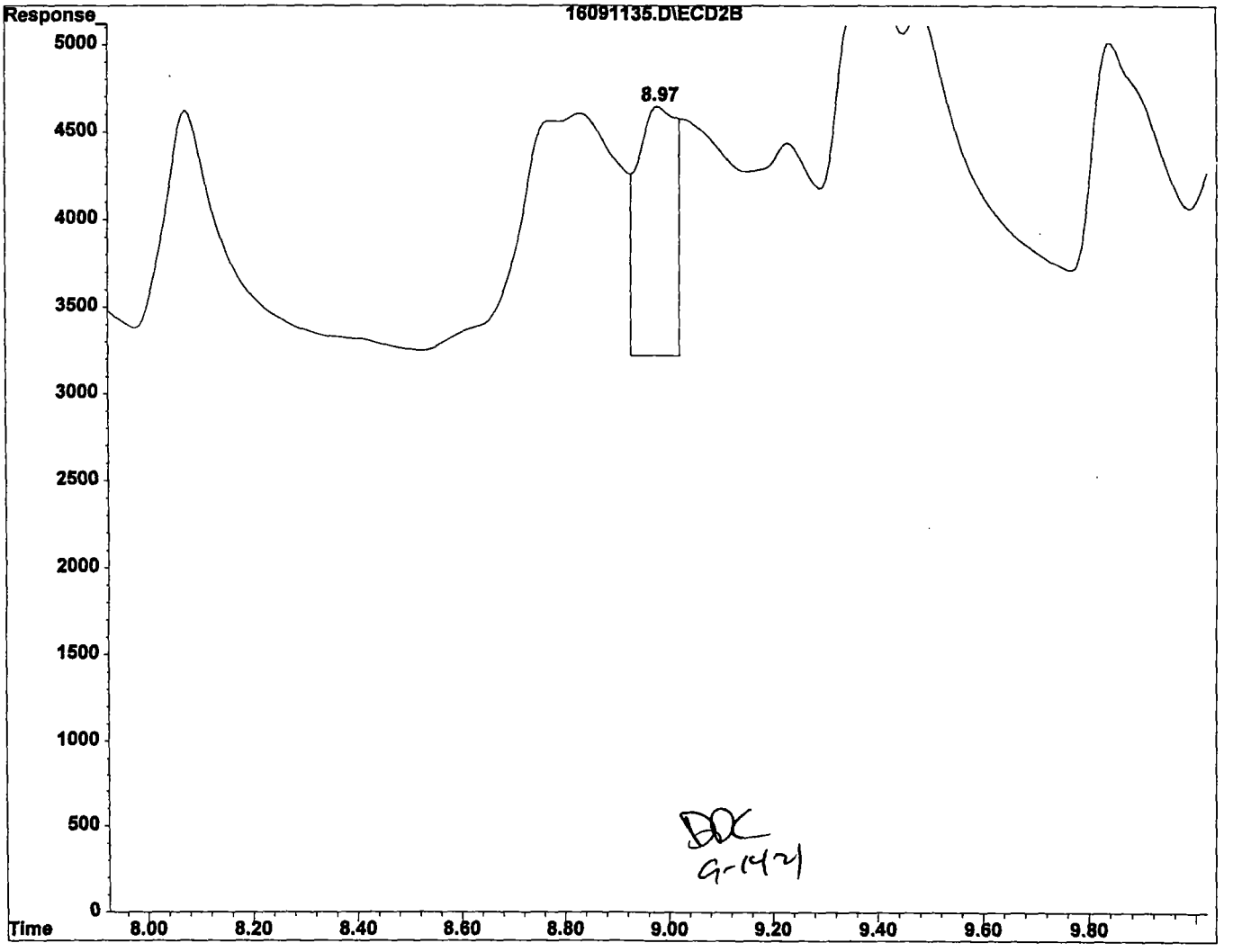
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.96	5.97	145611	170049	21.0	21.6
22)	S DCB	17.58	16.95	216998	232225	19.0	20.6
	Target Compounds:						
2)	L1 Aroclor-1016	7.99	7.63	169324	185129	427.8	434.5
3)	L1 Aroclor-1016 {2}	8.51	8.97	121822	73816	467.3	397.5m
4)	L1 Aroclor-1016 {3}	9.55	9.40	100812	94576	426.9	426.1m
5)	L1 Aroclor-1016 {4}	9.80	9.84	86315	160362	432.1	426.7
6)	L1 Aroclor-1016 {5}	10.56	10.62	131988	125329	439.5	456.0
	Sum Aroclor-1016			610261	639213	2193.7	2140.8
	Average Aroclor-1016					438.744	428.163
17)	L7 Aroclor-1260	13.32f	12.38	248018	236139	444.9	427.2
18)	L7 Aroclor-1260 {2}	13.62	13.54	219373	294707	437.8	458.3
19)	L7 Aroclor-1260 {3}	14.13	14.17	166557	149962	408.0	429.5
20)	L7 Aroclor-1260 {4}	14.64	14.72	159038	393714	444.6	421.5
21)	L7 Aroclor-1260 {5}	15.08f	15.32	323420	149166	388.9	345.1
	Sum Aroclor-1260			1116406	1223689	2124.2	2081.7
	Average Aroclor-1260					424.838	416.335

DRC 9-14-01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\09_11_01\16091135.D
Date Acquired: 12 Sep 2001 2:56
Inst: HP_16 Operator ID: DDC
Name: AR1660L3CO
Misc: 5-210-7
Method: F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 8:19 2001 Quant Results File: XPCBI11.RES



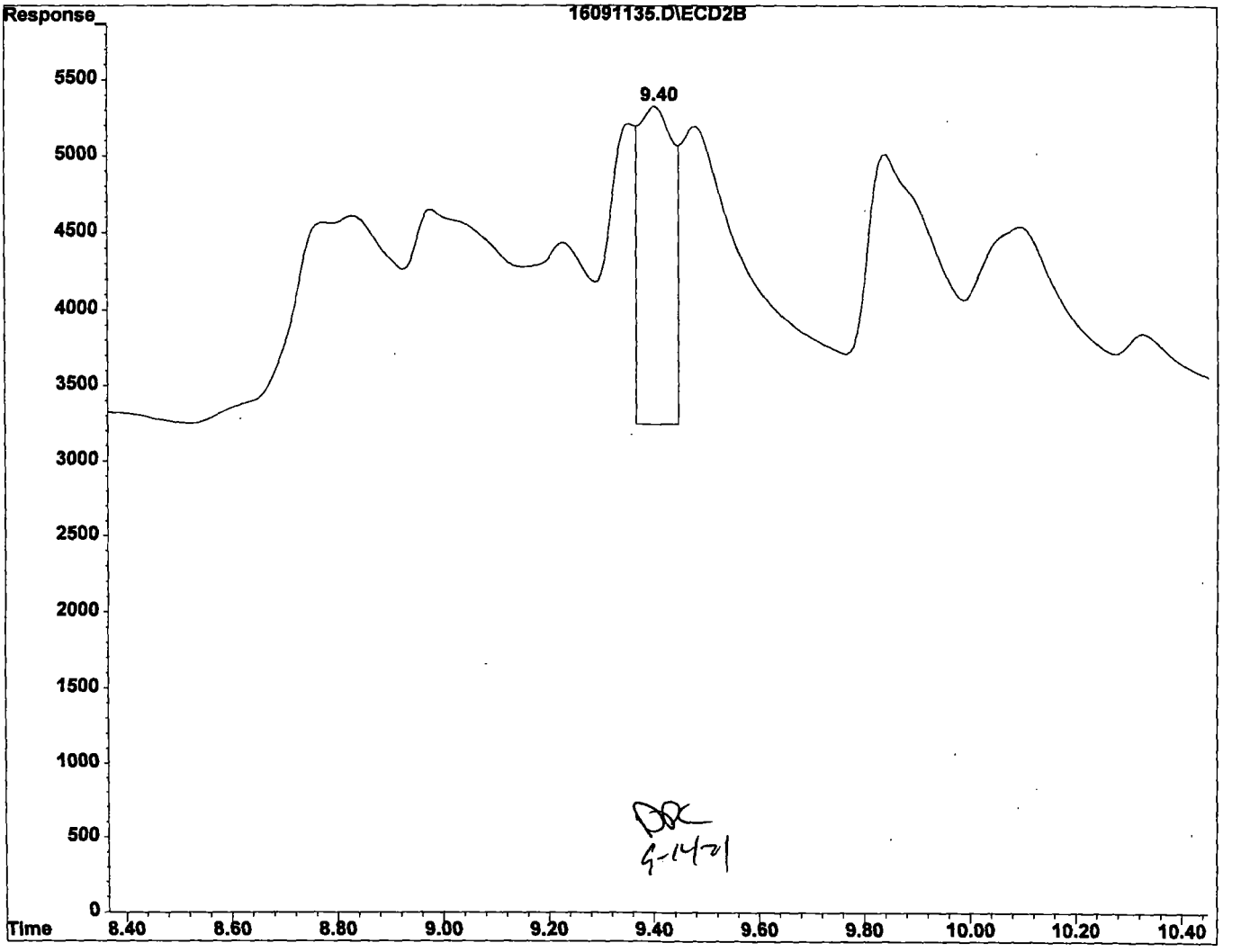
Aroclor-1016 {2} #2 8.97min area: 73816 m

Integration Time Range: 8.93 - 9.02

F:\HPCHEM\HP\16\DATA\09_11_01\16091135.D
Report generated: Fri Sep 14 08:21:56 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\09_11_01\16091135.D
Date Acquired: 12 Sep 2001 2:56
Inst: HP_16 Operator ID: DDC
Name: AR1660L3CO
Misc: 5-210-7
Method: F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 8:19 2001 Quant Results File: XPCBI11.RES



Aroclor-1016 {3} #2 9.40min area: 94576 m

Integration Time Range: 9.37 - 9.45

F:\HPCHEM\HP\16\DATA\09_11_01\16091135.D
Report generated: Fri Sep 14 08:21:56 2001

Continuing Calibration Report HP_16

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 12 13:22:54 2001
Response via : Initial Calibration

Continuing Calibration File: 16091152.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	6.928	8.541	E3	-23.3#	135
2	L1	Aroclor-1016	395.782	494.813		-25.0#	134
3	L1	Aroclor-1016 {2}	260.669	273.281		-4.8	104
4	L1	Aroclor-1016 {3}	236.153	305.055		-29.2#	142
5	L1	Aroclor-1016 {4}	199.746	254.023		-27.2#	135
6	L1	Aroclor-1016 {5}	300.287	387.546		-29.1#	136
17	L7	Aroclor-1260	557.411	742.915		-33.3#	138
18	L7	Aroclor-1260 {2}	501.098	662.547		-32.2#	139
19	L7	Aroclor-1260 {3}	408.246	491.603		-20.4#	134
20	L7	Aroclor-1260 {4}	357.710	483.737		-35.2#	142
21	L7	Aroclor-1260 {5}	831.679	966.271		-16.2#	120
22	S	DCB	11.430	13.701	E3	-19.9#	130

Signal #2
Continuing Calibration File: 16091152.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	7.863	9.903	E3	-25.9#	135
2	L1	Aroclor-1016	426.061	543.035		-27.5#	136
3	L1	Aroclor-1016 {2}	185.679	224.930		-21.1#	146
4	L1	Aroclor-1016 {3}	221.982	275.025		-23.9#	132
5	L1	Aroclor-1016 {4}	375.798	470.137		-25.1#	133
6	L1	Aroclor-1016 {5}	274.859	376.395		-36.9#	139
17	L7	Aroclor-1260	552.718	702.809		-27.2#	138
18	L7	Aroclor-1260 {2}	643.074	926.583		-44.1#	154#
19	L7	Aroclor-1260 {3}	349.158	484.377		-38.7#	157#
20	L7	Aroclor-1260 {4}	934.005	1251.085		-33.9#	146
21	L7	Aroclor-1260 {5}	432.199	411.227		4.9	113
22	S	DCB	11.282	14.075	E3	-24.8#	134

(#) = Out of Range SPCC's out = 0 CCC's out = 0

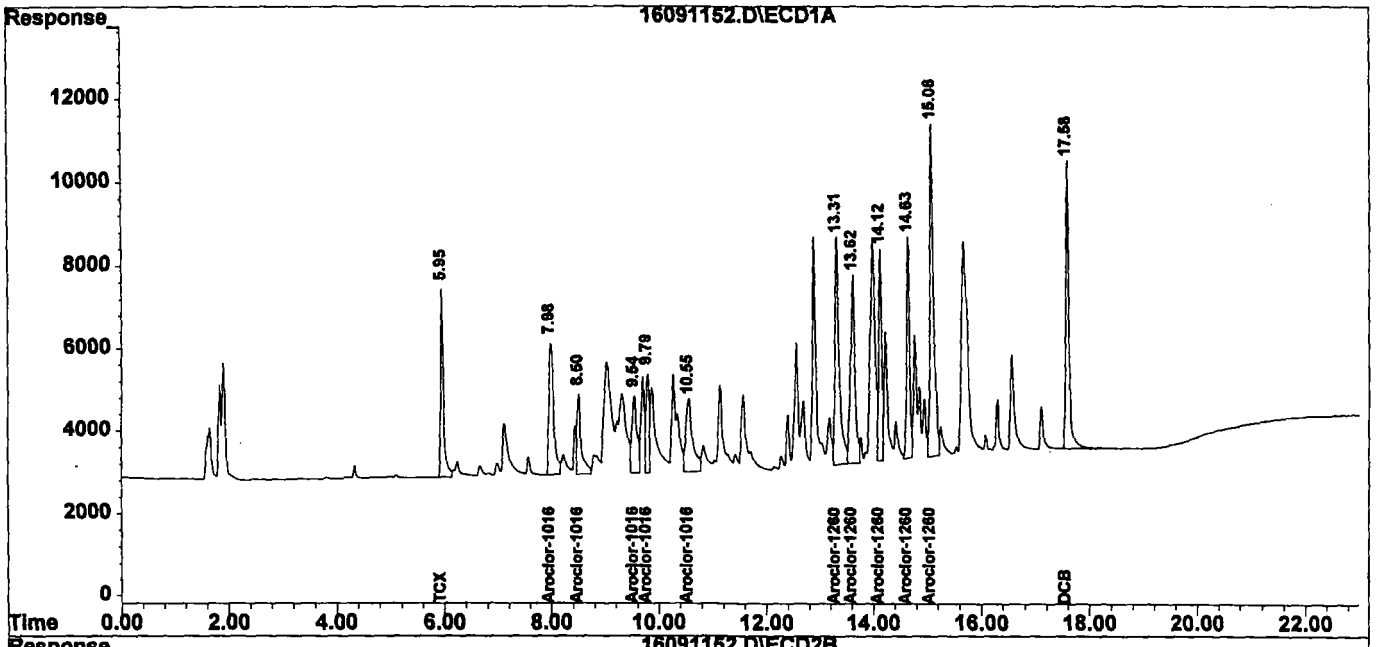
16091152.D XPCBI11.M Wed Sep 12 13:22:59 2001

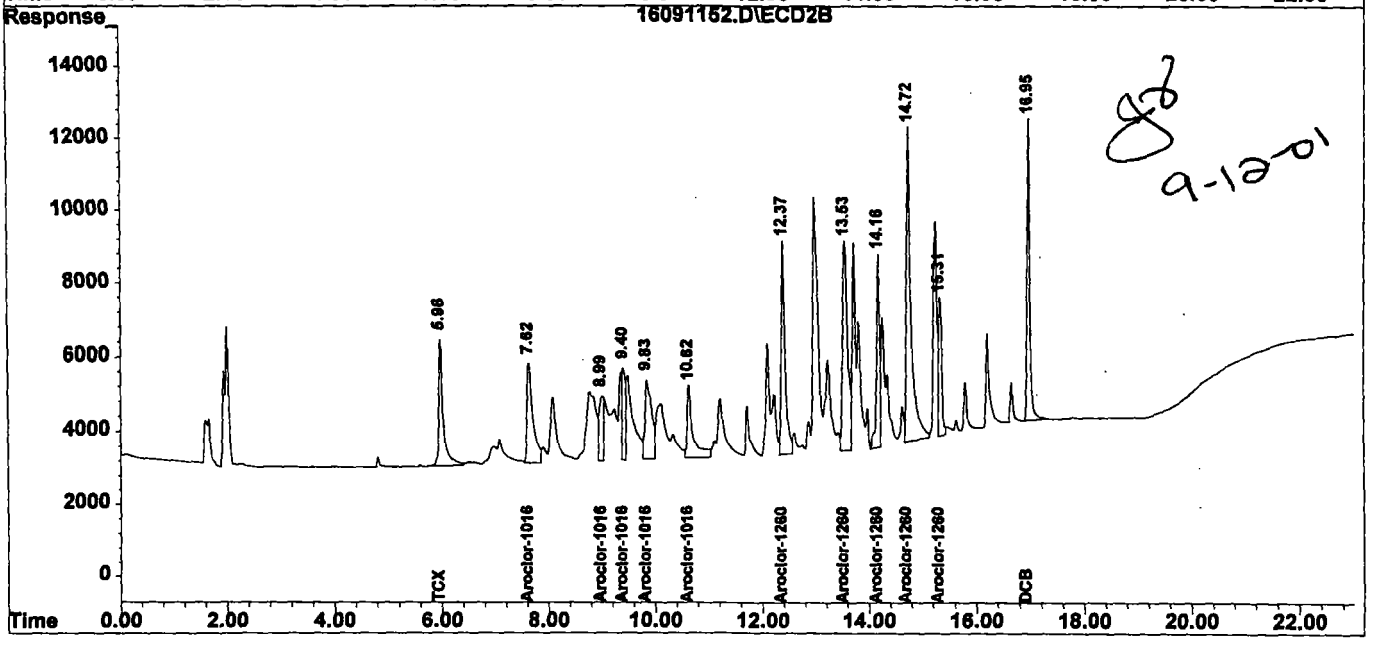
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091152.D\ECD1A.CH Vial: 56
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091152.D\ECD2B.CH
Acq On : 12 Sep 2001 10:26 Operator: DDC
Sample : AR1660L3CQ Inst : HP_16
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:22 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9-12-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091152.D\ECD1A.CH Vial: 56
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091152.D\ECD2B.CH
Acq On : 12 Sep 2001 10:26 Operator: DDC
Sample : AR1660L3CQ Inst : HP_16
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:22 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

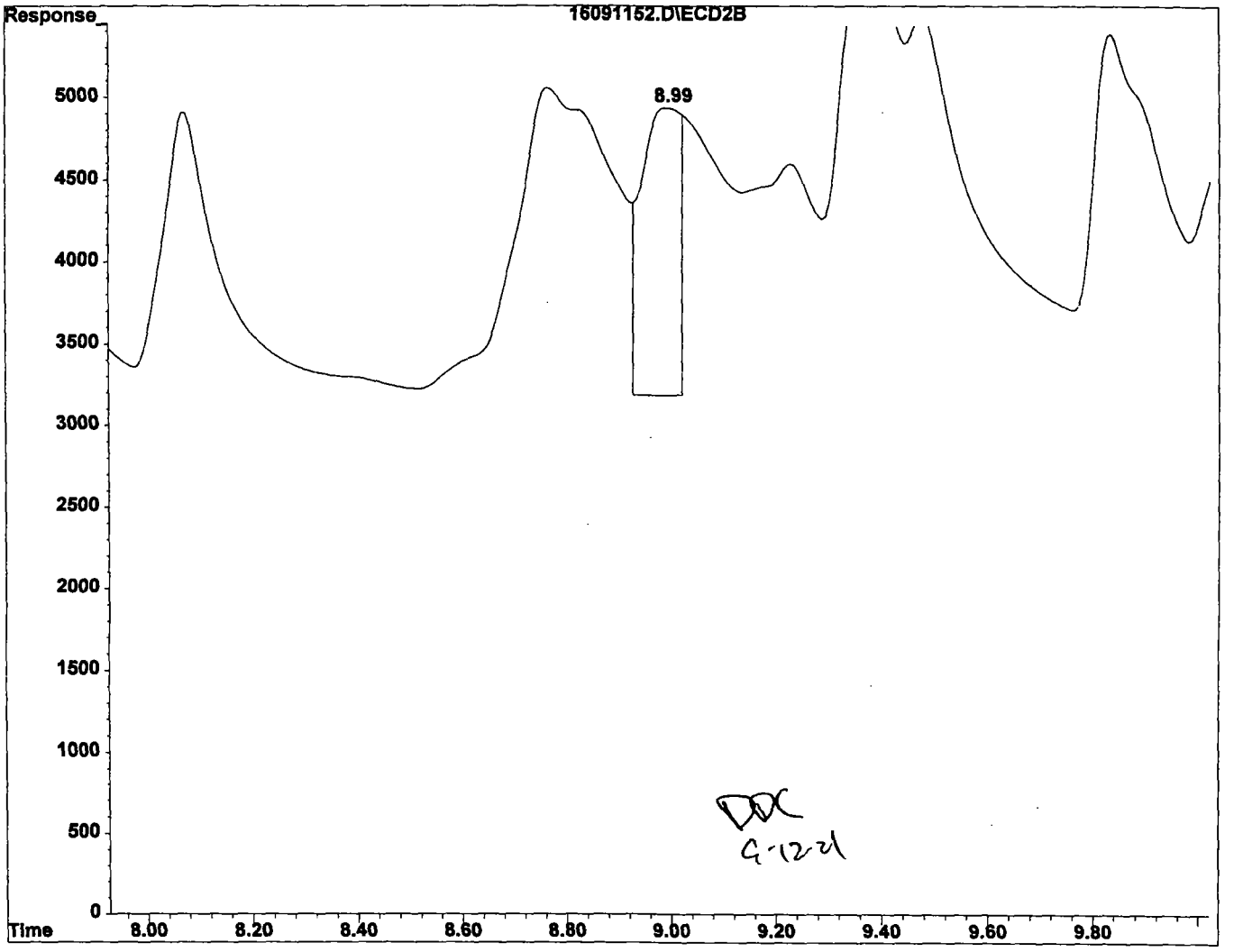
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.95	5.97	170816	198062	24.7	25.2
22)	S DCB	17.58	16.95	274021	281504	24.0	25.0
	Target Compounds:						
2)	L1 Aroclor-1016	7.98	7.62	197925	217214	500.1	509.8
3)	L1 Aroclor-1016 {2}	8.51	8.99	109312	89972	419.4	484.6m
4)	L1 Aroclor-1016 {3}	9.54	9.40	122022	110010	516.7	495.6
5)	L1 Aroclor-1016 {4}	9.79	9.84	101609	188055	508.7	500.4
6)	L1 Aroclor-1016 {5}	10.55f	10.62	155018	150558	516.2	547.8
	Sum Aroclor-1016			685887	755809	2461.1	2538.1
	Average Aroclor-1016					492.215	507.627
17)	L7 Aroclor-1260	13.31f	12.37	297166	281123	533.1	508.6
18)	L7 Aroclor-1260 {2}	13.62	13.54	265019	370633	528.9	576.3
19)	L7 Aroclor-1260 {3}	14.12	14.16	196641	193751	481.7	554.9
20)	L7 Aroclor-1260 {4}	14.64	14.72	193495	500434	540.9	535.8
21)	L7 Aroclor-1260 {5}	15.07f	15.32	386508	164491	464.7	380.6
	Sum Aroclor-1260			1338829	1510432	2549.3	2556.3
	Average Aroclor-1260					509.865	511.252

DDC 9-12-01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\09_11_01\16091152.D
Date Acquired: 12 Sep 2001 10:26
Inst: HP_16 Operator ID: DDC
Name: AR1660L3CQ
Misc: 5-210-7
Method: F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title: PCB/TOXAPHENE
Quant Time: Sep 12 13:22 2001 Quant Results File: XPCBI11.RES



Aroclor-1016 {2} #2 8.99min area: 89972 m

Integration Time Range: 8.93 - 9.02

F:\HPCHEM\HP\16\DATA\09_11_01\16091152.D
Report generated: Wed Sep 12 13:56:57 2001

Continuing Calibration Report HP_16

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 12 13:56:24 2001
Response via : Initial Calibration

Continuing Calibration File: 16091153.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	6.928	6.950	E3	-0.3	110
2	L1	Aroclor-1016	395.782	409.468		-3.5	111
3	L1	Aroclor-1016 {2}	260.669	231.438		11.2	88
4	L1	Aroclor-1016 {3}	236.153	244.410		-3.5	114
5	L1	Aroclor-1016 {4}	199.746	208.466		-4.4	111
6	L1	Aroclor-1016 {5}	300.287	314.944		-4.9	111
17	L7	Aroclor-1260	557.411	588.088		-5.5	110
18	L7	Aroclor-1260 {2}	501.098	519.059		-3.6	109
19	L7	Aroclor-1260 {3}	408.246	400.385		1.9	109
20	L7	Aroclor-1260 {4}	357.710	379.390		-6.1	112
21	L7	Aroclor-1260 {5}	831.679	764.545		8.1	95
22	S	DCB	11.430	11.038	E3	3.4	105

Signal #2
Continuing Calibration File: 16091153.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	7.863	7.964	E3	-1.3	109
2	L1	Aroclor-1016	426.061	438.503		-2.9	110
3	L1	Aroclor-1016 {2}	185.679	176.090		5.2	114
4	L1	Aroclor-1016 {3}	221.982	226.808		-2.2	109
5	L1	Aroclor-1016 {4}	375.798	380.823		-1.3	108
6	L1	Aroclor-1016 {5}	274.859	301.007		-9.5	111
17	L7	Aroclor-1260	552.718	558.878		-1.1	110
18	L7	Aroclor-1260 {2}	643.074	702.901		-9.3	117
19	L7	Aroclor-1260 {3}	349.158	363.826		-4.2	118
20	L7	Aroclor-1260 {4}	934.005	956.411		-2.4	112
21	L7	Aroclor-1260 {5}	432.199	352.640		18.4#	97
22	S	DCB	11.282	11.181	E3	0.9	106

(#) = Out of Range SPCC's out = 0 CCC's out = 0

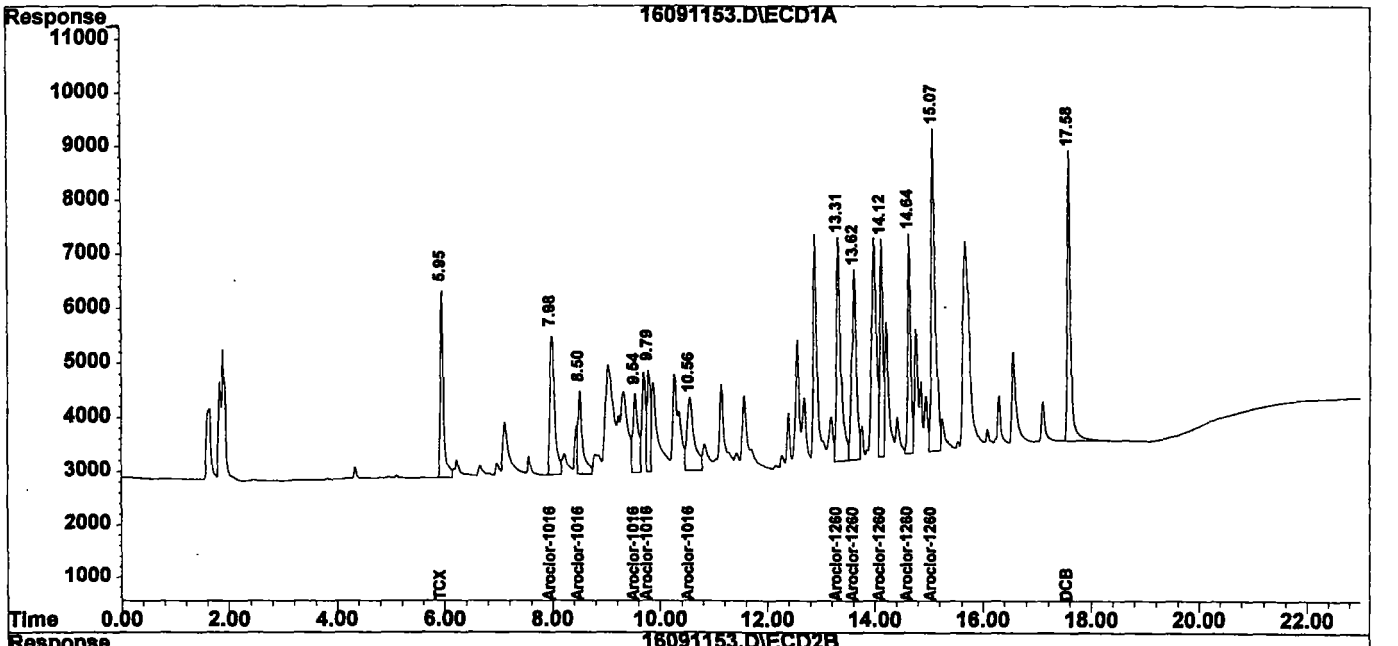
16091153.D XPCBI11.M Wed Sep 12 13:56:29 2001

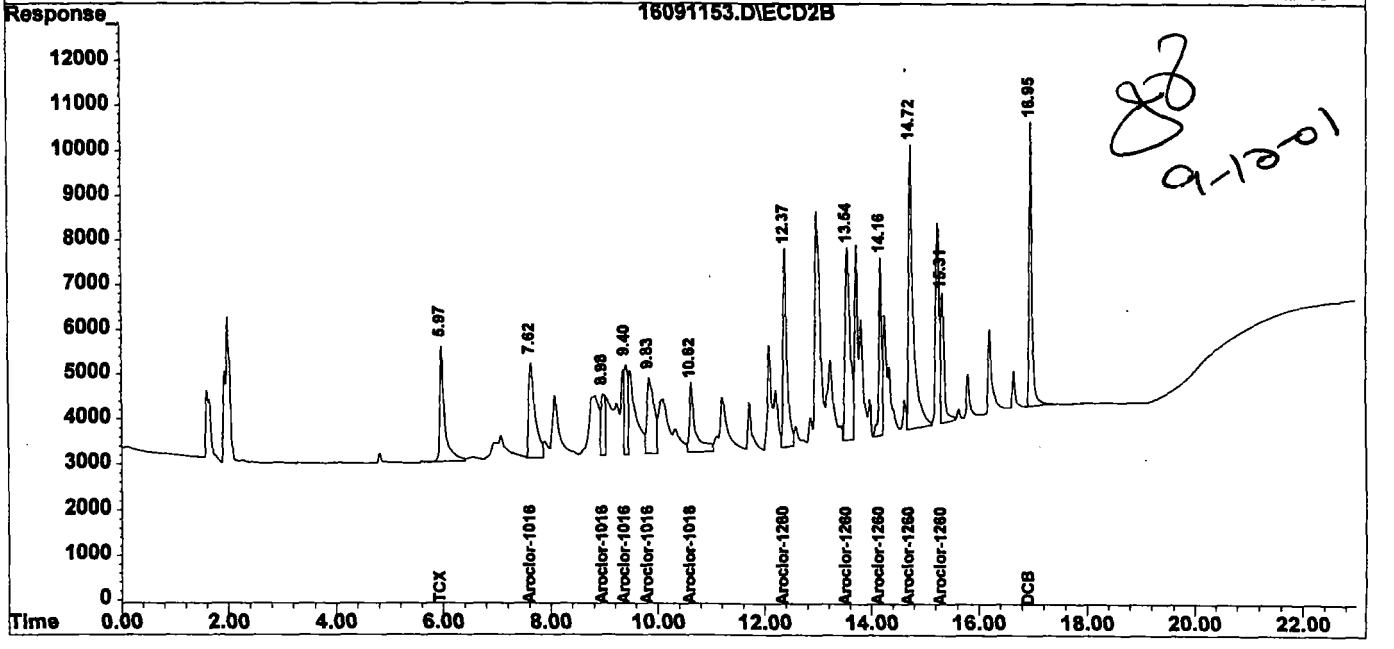
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091153.D\ECD1A.CH Vial: 57
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091153.D\ECD2B.CH
Acq On : 12 Sep 2001 10:52 Operator: DDC
Sample : AR1660L3CR Inst : HP_16
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:20 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9-13-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091153.D\ECD1A.CH Vial: 57
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091153.D\ECD2B.CH
Acq On : 12 Sep 2001 10:52 Operator: DDC
Sample : AR1660L3CR Inst : HP_16
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:20 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

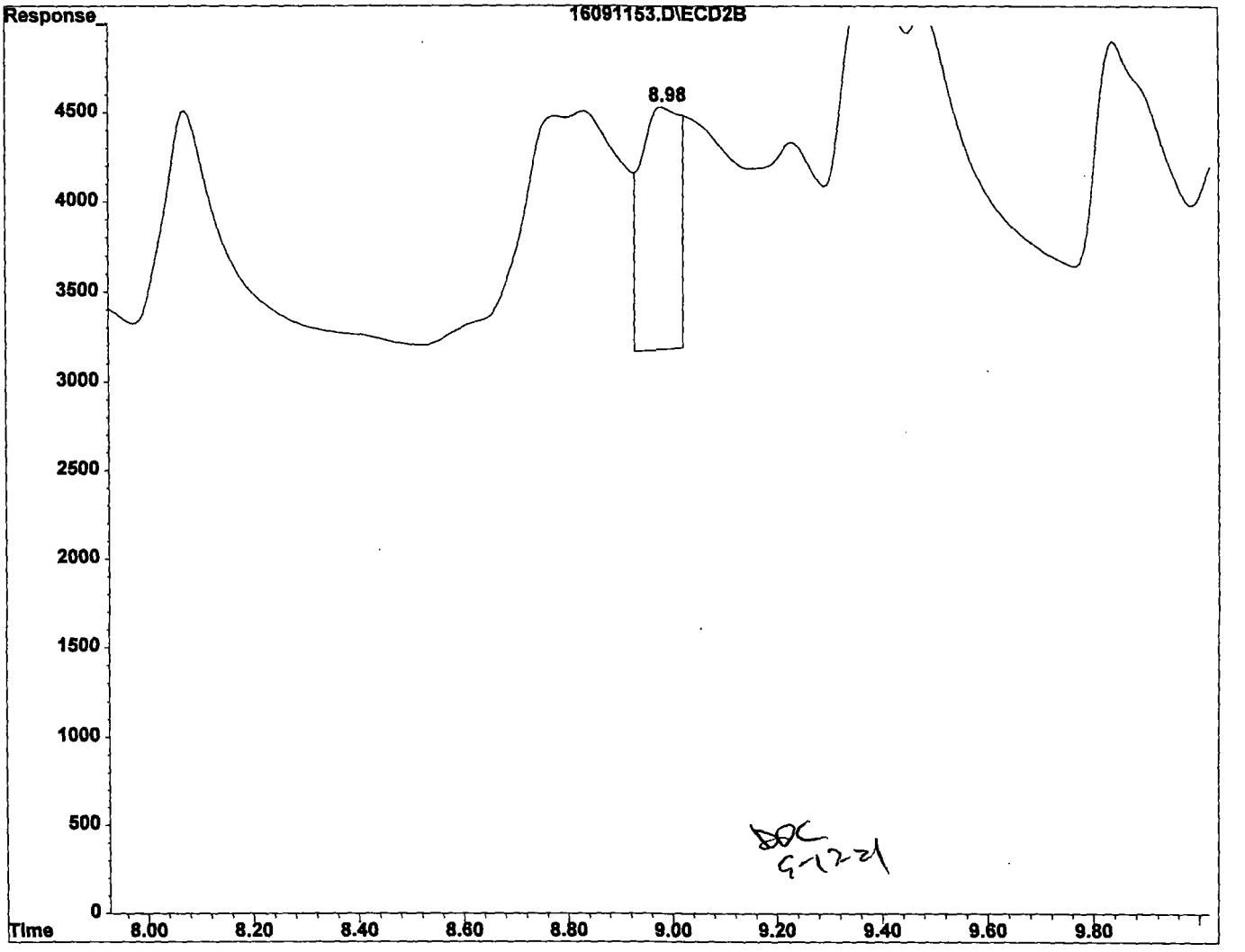
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.95	5.97	139000	159286	20.1	20.3
22)	S DCB	17.58	16.95	220763	223622	19.3	19.8
	Target Compounds:						
2)	L1 Aroclor-1016	7.98	7.63	163787	175401	413.8	411.7
3)	L1 Aroclor-1016 {2}	8.51	8.98	92575	70436	355.1	379.3m
4)	L1 Aroclor-1016 {3}	9.54	9.40	97764	90723	414.0	408.7
5)	L1 Aroclor-1016 {4}	9.79	9.84	83387	152329	417.5	405.3
6)	L1 Aroclor-1016 {5}	10.56f	10.62	125978	120403	419.5	438.1
	Sum Aroclor-1016			563491	609292	2019.9	2043.1
	Average Aroclor-1016					403.990	408.624
17)	L7 Aroclor-1260	13.32f	12.37	235235	223551	422.0	404.5
18)	L7 Aroclor-1260 {2}	13.62	13.54	207624	281160	414.3	437.2
19)	L7 Aroclor-1260 {3}	14.12	14.16	160154	145530	392.3	416.8
20)	L7 Aroclor-1260 {4}	14.64	14.72	151756	382565	424.2	409.6
21)	L7 Aroclor-1260 {5}	15.07f	15.32	305818	141056	367.7	326.4
	Sum Aroclor-1260			1060587	1173862	2020.6	1994.4
	Average Aroclor-1260					404.121	398.888

DDC 9-12-01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\09_11_01\16091153.D
Date Acquired: 12 Sep 2001 10:52
Inst: HP_16 Operator ID: DDC
Name: ARI660L3CR
Misc: 5-210-7
Method: F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title: PCB/TOXAPHENE
Quant Time: Sep 12 13:20 2001 Quant Results File: XPCBI11.RES



Aroclor-1016 {2} #2 8.98min area: 70436 m

Integration Time Range: 8.93 - 9.02

F:\HPCHEM\HP\16\DATA\09_11_01\16091153.D
Report generated: Wed Sep 12 13:56:58 2001

Continuing Calibration Report HP_16

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Thu Sep 13 08:10:02 2001
Response via : Initial Calibration

Continuing Calibration File: 16091166.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	6.928	8.059	E3	-16.3#	128	
2	L1	Aroclor-1016	395.782	467.078		-18.0#	127	
3	L1	Aroclor-1016 {2}	260.669	261.245		-0.2	99	
4	L1	Aroclor-1016 {3}	236.153	284.135		-20.3#	133	
5	L1	Aroclor-1016 {4}	199.746	240.408		-20.4#	128	
6	L1	Aroclor-1016 {5}	300.287	365.568		-21.7#	128	
17	L7	Aroclor-1260	557.411	690.450		-23.9#	129	Out
18	L7	Aroclor-1260 {2}	501.098	613.942		-22.5#	129	
19	L7	Aroclor-1260 {3}	408.246	461.914		-13.1	126	
20	L7	Aroclor-1260 {4}	357.710	448.080		-25.3#	132	
21	L7	Aroclor-1260 {5}	831.679	903.503		-8.6	112	
22	S	DCB	11.430	12.111	E3	-6.0	115	

Signal #2
Continuing Calibration File: 16091166.D

		Compound	AvgRF	CCRF		%Dev	Area%	
1	S	TCX	7.863	9.419	E3	-19.8#	129	
2	L1	Aroclor-1016	426.061	510.478		-19.8#	128	
3	L1	Aroclor-1016 {2}	185.679	194.320		-4.7	126	
4	L1	Aroclor-1016 {3}	221.982	259.007		-16.7#	124	
5	L1	Aroclor-1016 {4}	375.798	445.840		-18.6#	126	
6	L1	Aroclor-1016 {5}	274.859	351.764		-28.0#	130	
17	L7	Aroclor-1260	552.718	657.447		-18.9#	129	Out
18	L7	Aroclor-1260 {2}	643.074	853.510		-32.7#	142	
19	L7	Aroclor-1260 {3}	349.158	438.808		-25.7#	143	
20	L7	Aroclor-1260 {4}	934.005	1153.009		-23.4#	135	
21	L7	Aroclor-1260 {5}	432.199	417.844		3.3	115	
22	S	DCB	11.282	12.906	E3	-14.4	123	

(#) = Out of Range SPCC's out = 0 CCC's out = 0

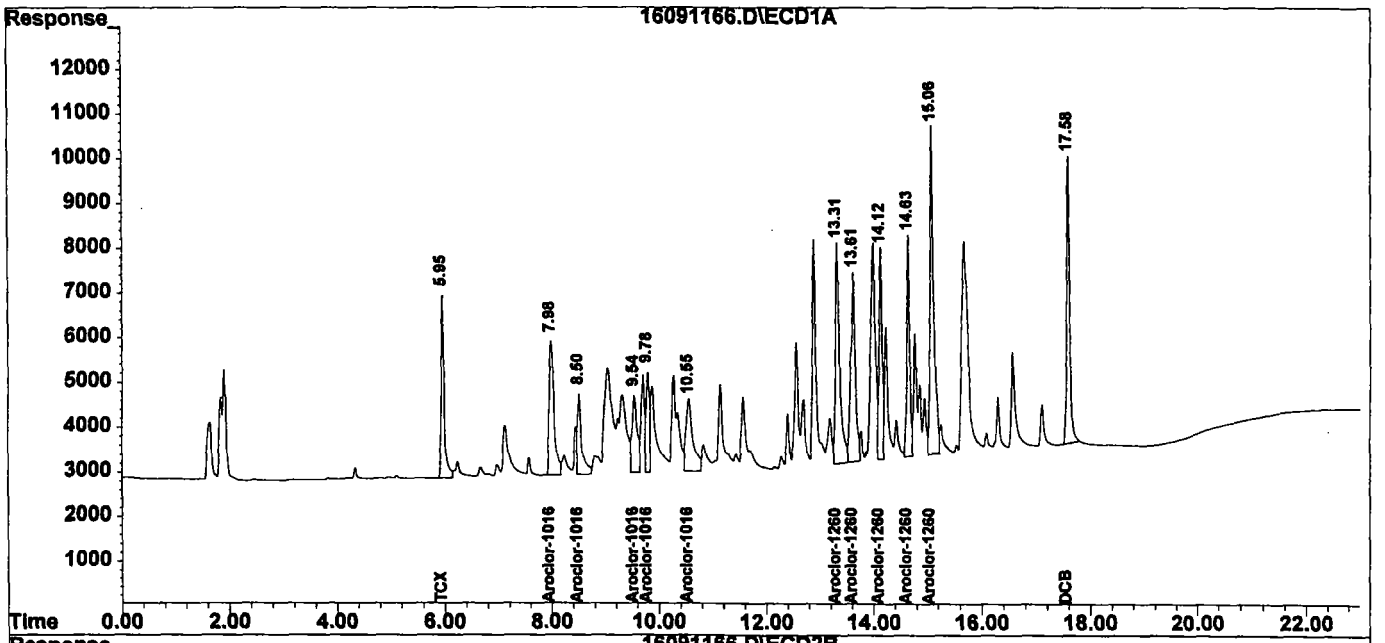
16091166.D XPCBI11.M Thu Sep 13 08:10:07 2001

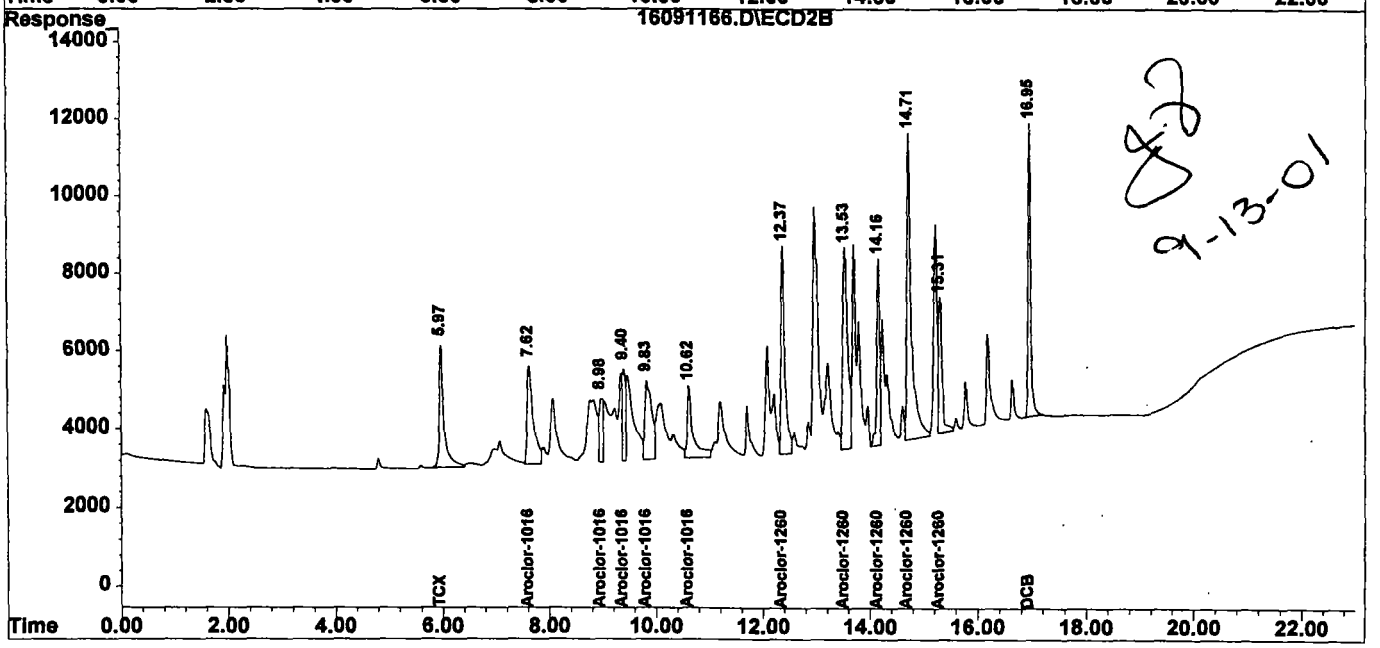
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091166.D\ECD1A.CH Vial: 2
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091166.D\ECD2B.CH
Acq On : 12 Sep 2001 16:49 Operator: DDC
Sample : AR1660L3CS Inst : HP_16
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 13 8:09 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9-13-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091166.D\ECD1A.CH Vial: 2
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091166.D\ECD2B.CH
Acq On : 12 Sep 2001 16:49 Operator: DDC
Sample : AR1660L3CS Inst : HP_16
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 13 8:09 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

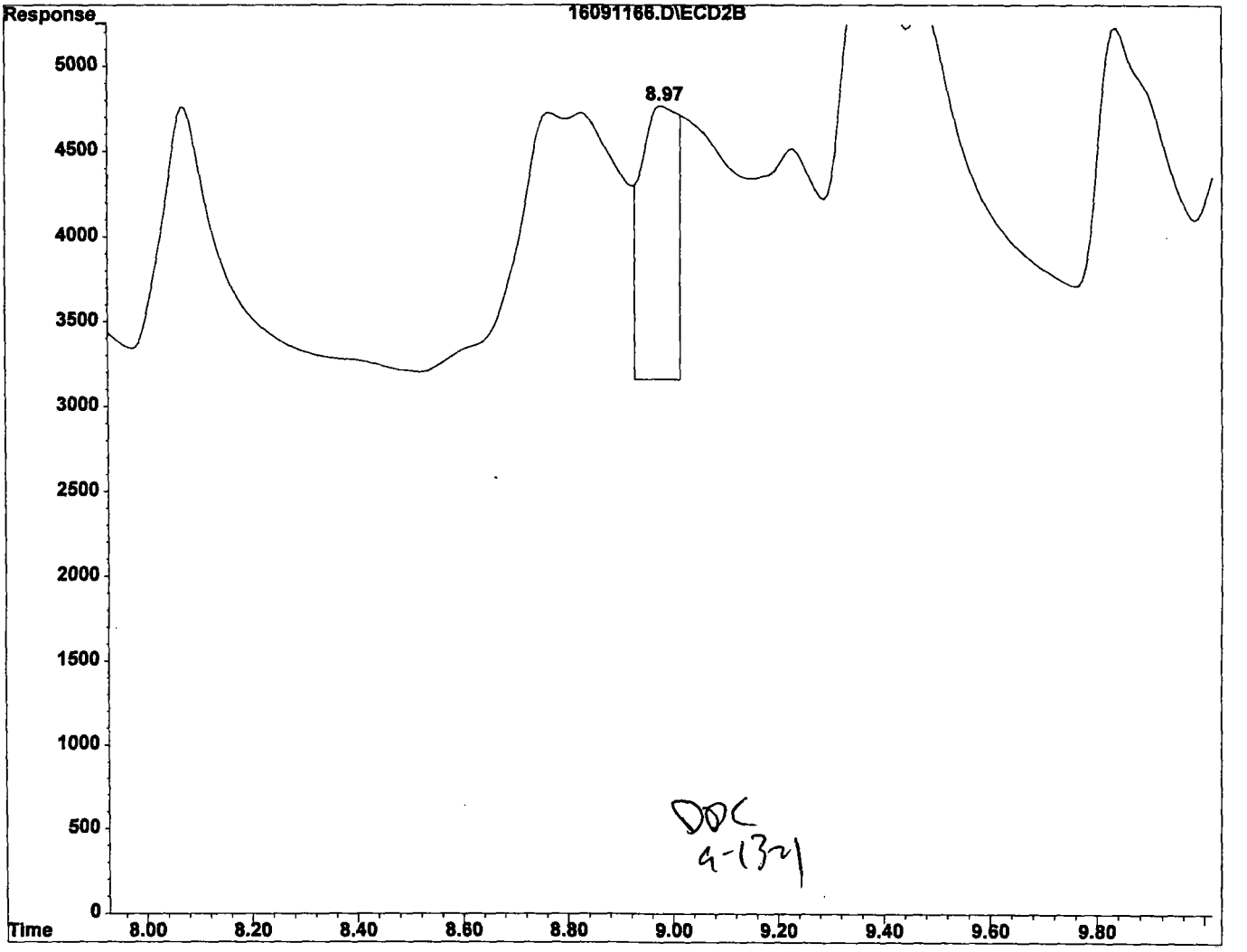
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.95	5.97	161174	188375	23.3	24.0
22)	S DCB	17.58	16.95	242220	258129	21.2	22.9
	Target Compounds:						
2)	L1 Aroclor-1016	7.98	7.62	186831	204191	472.1	479.3
3)	L1 Aroclor-1016 {2}	8.50	8.97	104498	77728	400.9	418.6m
4)	L1 Aroclor-1016 {3}	9.54	9.40	113654	103603	481.3	466.7
5)	L1 Aroclor-1016 {4}	9.79f	9.83	96163	178336	481.4	474.6
6)	L1 Aroclor-1016 {5}	10.55f	10.62	146227	140706	487.0	511.9
	Sum Aroclor-1016			647374	704564	2322.6	2351.1
	Average Aroclor-1016					464.519	470.212
17)	L7 Aroclor-1260	13.31f	12.37	276180	262979	495.5	475.8
18)	L7 Aroclor-1260 {2}	13.62	13.54	245577	341404	490.1	530.9
19)	L7 Aroclor-1260 {3}	14.12	14.16	184766	175523	452.6	502.7
20)	L7 Aroclor-1260 {4}	14.63	14.72	179232	461203	501.1	493.8
21)	L7 Aroclor-1260 {5}	15.06f	15.31	361401	167138	434.5	386.7
	Sum Aroclor-1260			1247156	1408247	2373.7	2389.9
	Average Aroclor-1260					474.746	477.979

DDC 9-13-01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\09_11_01\16091166.D
Date Acquired: 12 Sep 2001 16:49
Inst: HP_16 Operator ID: DDC
Name: AR1660L3CS
Misc: 5-210-7
Method: F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title: PCB/TOXAPHENE
Quant Time: Sep 13 8:09 2001 Quant Results File: XPCBI11.RES



Aroclor-1016 {2} #2 8.97min area: 77728 m

Integration Time Range: 8.93 - 9.01

F:\HPCHEM\HP\16\DATA\09_11_01\16091166.D
Report generated: Thu Sep 13 08:26:31 2001

Continuing Calibration Report HP_16

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Thu Sep 13 08:17:41 2001
Response via : Initial Calibration

Continuing Calibration File: 16091167.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	6.928	7.714	E3	-11.3	122
2	L1	Aroclor-1016	395.782	457.333		-15.6#	124
3	L1	Aroclor-1016 {2}	260.669	248.601		4.6	95
4	L1	Aroclor-1016 {3}	236.153	280.500		-18.8#	131
5	L1	Aroclor-1016 {4}	199.746	227.039		-13.7	121
6	L1	Aroclor-1016 {5}	300.287	324.776		-8.2	114
17	L7	Aroclor-1260	557.411	642.283		-15.2#	120
18	L7	Aroclor-1260 {2}	501.098	569.679		-13.7	120
19	L7	Aroclor-1260 {3}	408.246	457.169		-12.0	124
20	L7	Aroclor-1260 {4}	357.710	433.319		-21.1#	127
21	L7	Aroclor-1260 {5}	831.679	874.038		-5.1	108
22	S	DCB	11.430	11.698	E3	-2.3	111

Signal #2
Continuing Calibration File: 16091167.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	7.863	9.105	E3	-15.8#	124
2	L1	Aroclor-1016	426.061	494.569		-16.1#	124
3	L1	Aroclor-1016 {2}	185.679	194.250		-4.6	126
4	L1	Aroclor-1016 {3}	221.982	247.865		-11.7	119
5	L1	Aroclor-1016 {4}	375.798	423.774		-12.8	120
6	L1	Aroclor-1016 {5}	274.859	303.459		-10.4	112
17	L7	Aroclor-1260	552.718	625.524		-13.2	123
18	L7	Aroclor-1260 {2}	643.074	723.633		-12.5	120
19	L7	Aroclor-1260 {3}	349.158	426.332		-22.1#	139
20	L7	Aroclor-1260 {4}	934.005	1067.761		-14.3	125
21	L7	Aroclor-1260 {5}	432.199	387.713		10.3	106
22	S	DCB	11.282	12.447	E3	-10.3	118

14.46%

(#) = Out of Range SPCC's out = 0 CCC's out = 0

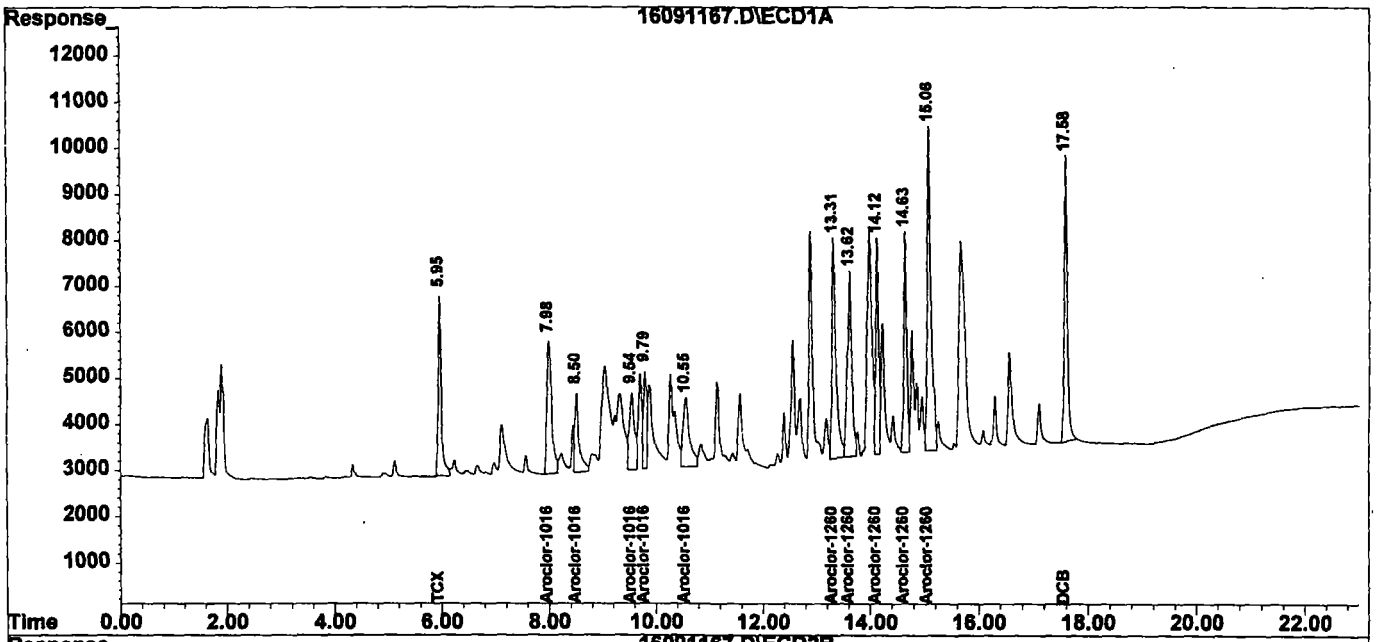
16091167.D XPCBI11.M Thu Sep 13 08:17:47 2001

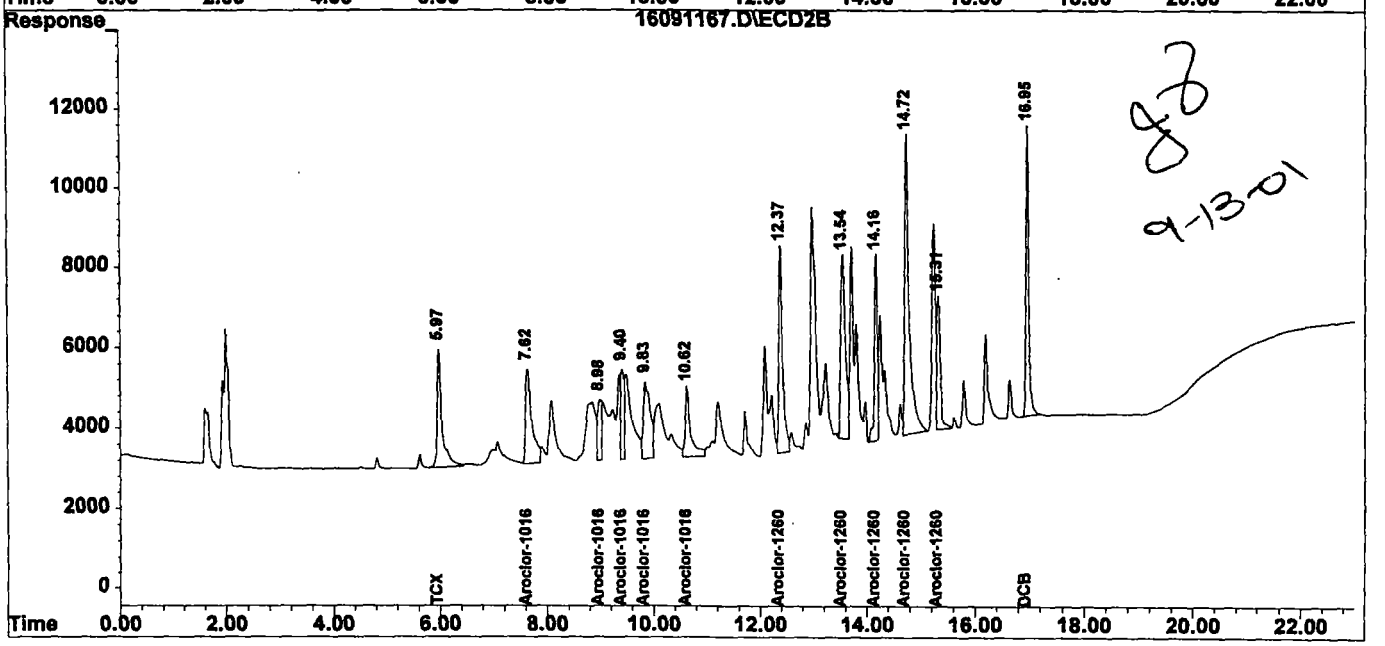
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091167.D\ECD1A.CH Vial: 3
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091167.D\ECD2B.CH
Acq On : 12 Sep 2001 17:15 Operator: DDC
Sample : AR1660L3CT Inst : HP_16
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 13 8:17 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





gg
9-13-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091167.D\ECD1A.CH Vial: 3
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091167.D\ECD2B.CH
Acq On : 12 Sep 2001 17:15 Operator: DDC
Sample : AR1660L3CT Inst : HP_16
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 13 8:17 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

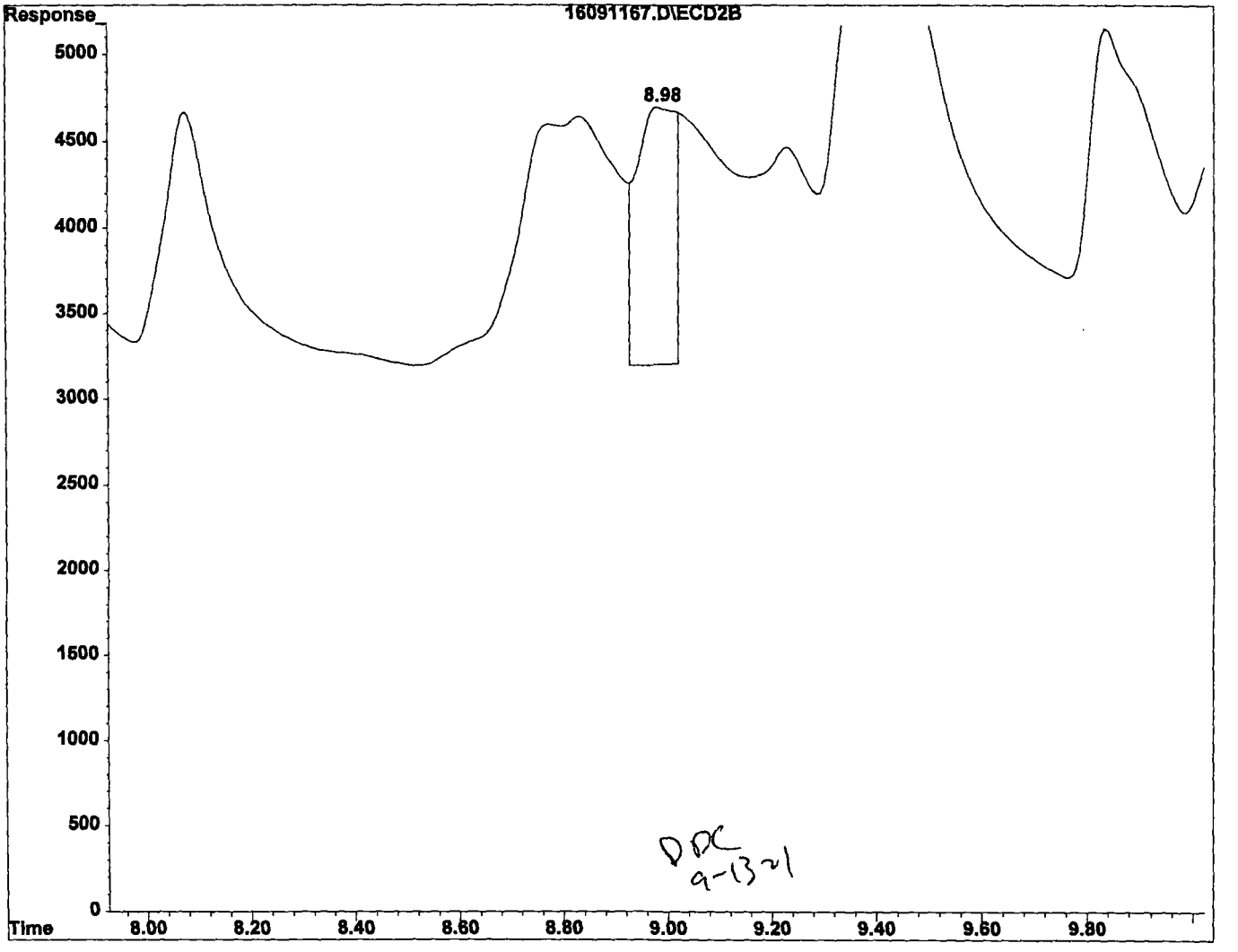
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.96	5.97	154274	182093	22.3	23.2
22)	S DCB	17.58	16.95	233967	248948	20.5	22.1
	Target Compounds:						
2)	L1 Aroclor-1016	7.98	7.63	182933	197827	462.2	464.3
3)	L1 Aroclor-1016 {2}	8.51	8.98	99441	77700	381.5	418.5m
4)	L1 Aroclor-1016 {3}	9.54	9.40	112200	99146	475.1	446.6
5)	L1 Aroclor-1016 {4}	9.79	9.84	90816	169509	454.7	451.1
6)	L1 Aroclor-1016 {5}	10.55f	10.62	129910	121384	432.6	441.6
	Sum Aroclor-1016			615300	665567	2206.1	2222.1
	Average Aroclor-1016					441.216	444.422
17)	L7 Aroclor-1260	13.31f	12.37	256913	250209	460.9	452.7
18)	L7 Aroclor-1260 {2}	13.62	13.54	227872	289453	454.7	450.1
19)	L7 Aroclor-1260 {3}	14.12	14.16	182868	170533	447.9	488.4
20)	L7 Aroclor-1260 {4}	14.64	14.72	173327	427104	484.5	457.3
21)	L7 Aroclor-1260 {5}	15.07f	15.32	349615	155085	420.4	358.8
	Sum Aroclor-1260			1190595	1292385	2268.5	2207.3
	Average Aroclor-1260					453.701	441.464

DA 9-13-01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\09_11_01\16091167.D
Date Acquired: 12 Sep 2001 17:15
Inst: HP_16 Operator ID: DDC
Name: AR1660L3CT
Misc: 5-210-7
Method: F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title: PCB/TOXAPHENE
Quant Time: Sep 13 8:17 2001 Quant Results File: XPCBI11.RES



Aroclor-1016 {2} #2 8.98min area: 77700 m

Integration Time Range: 8.93 - 9.02

F:\HPCHEM\HP\16\DATA\09_11_01\16091167.D
Report generated: Thu Sep 13 08:26:32 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PBLKSA

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix: (soil/water) SOIL Lab Sample ID: BL0815SA

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

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/11/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

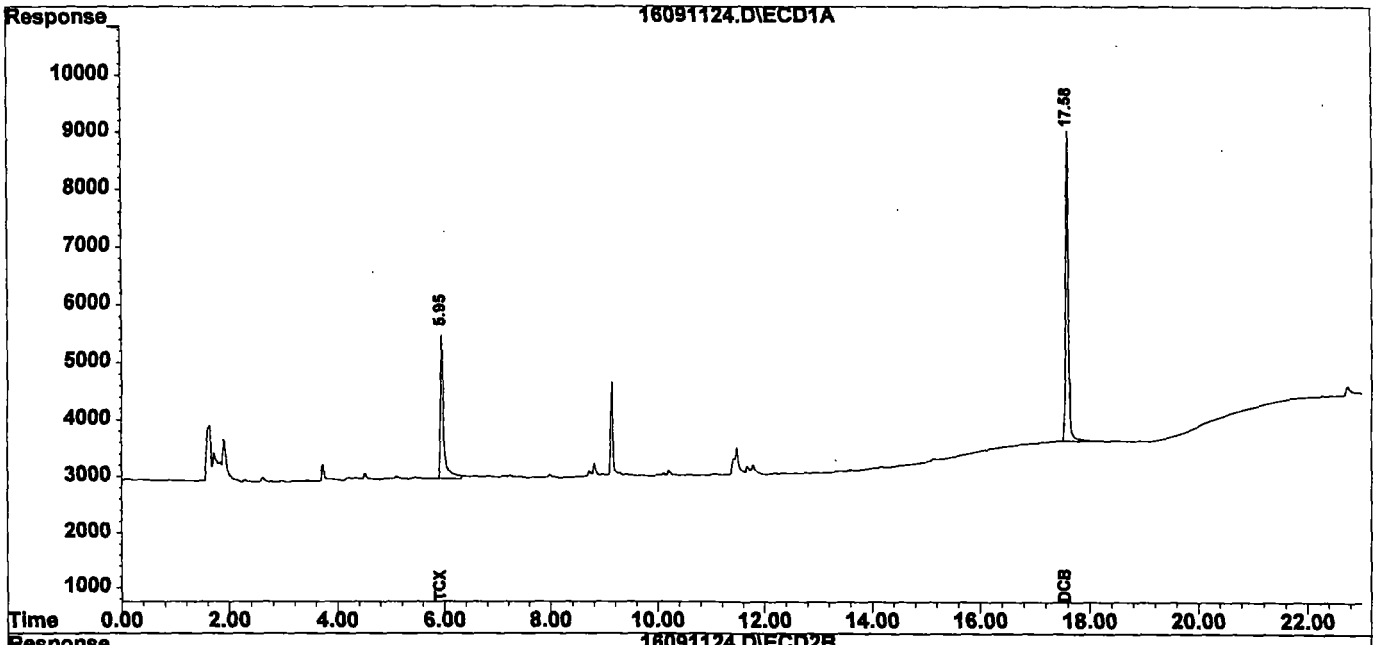
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

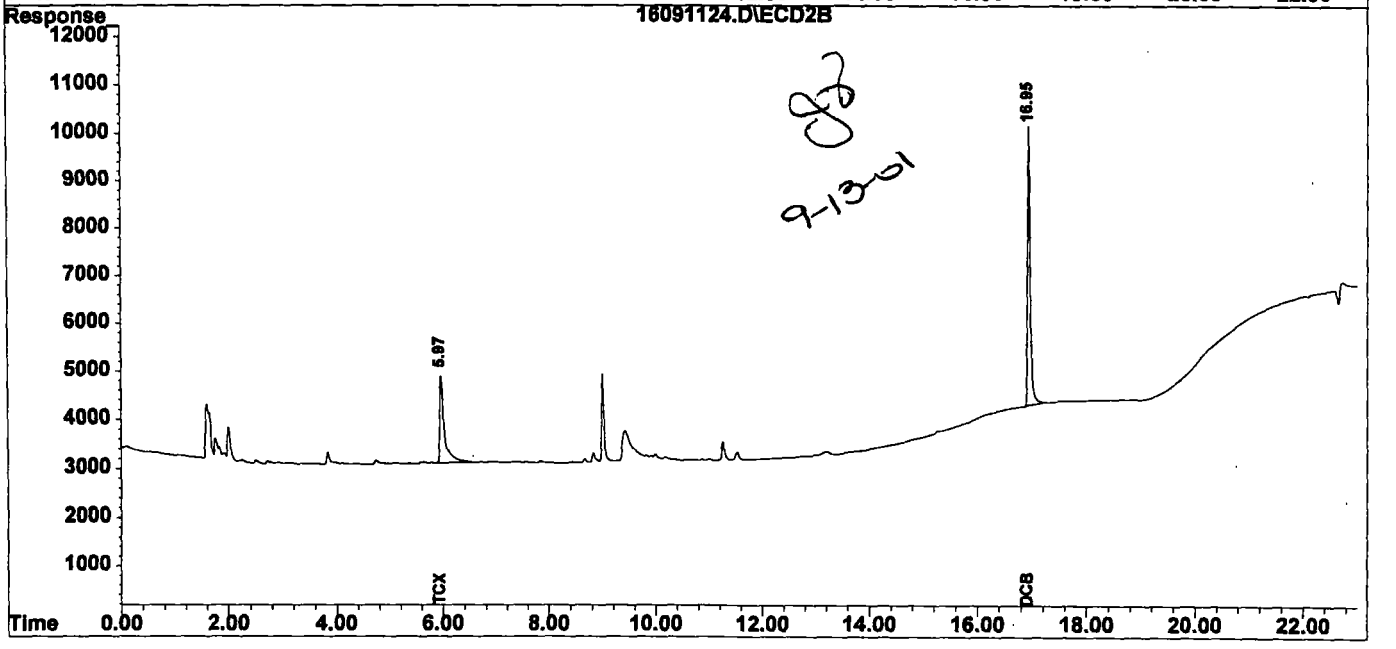
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091124.D\ECD1A.CH Vial: 28
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091124.D\ECD2B.CH
Acq On : 11 Sep 2001 22:05 Operator: DDC
Sample : BL0815SA *PBLKSA * Inst : HP_16
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 12:59 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9-13-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091124.D\ECD1A.CH Vial: 28
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091124.D\ECD2B.CH
Acq On : 11 Sep 2001 22:05 Operator: DDC
Sample : BL0815SA *PBLKSA * Inst : HP_16
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 12:59 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.96	5.97	105777	107766	5.090	4.569
	Spiked Amount 6.667			Recovery	=	76.35%	68.54%
22)	S DCB	17.58	16.95	186997	194435	5.453	5.745
	Spiked Amount 6.667			Recovery	=	81.80%	86.18%
	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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKCW

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 09/11/01

Injection Volume: 0.5(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.

PIBLKCW

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 09/11/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

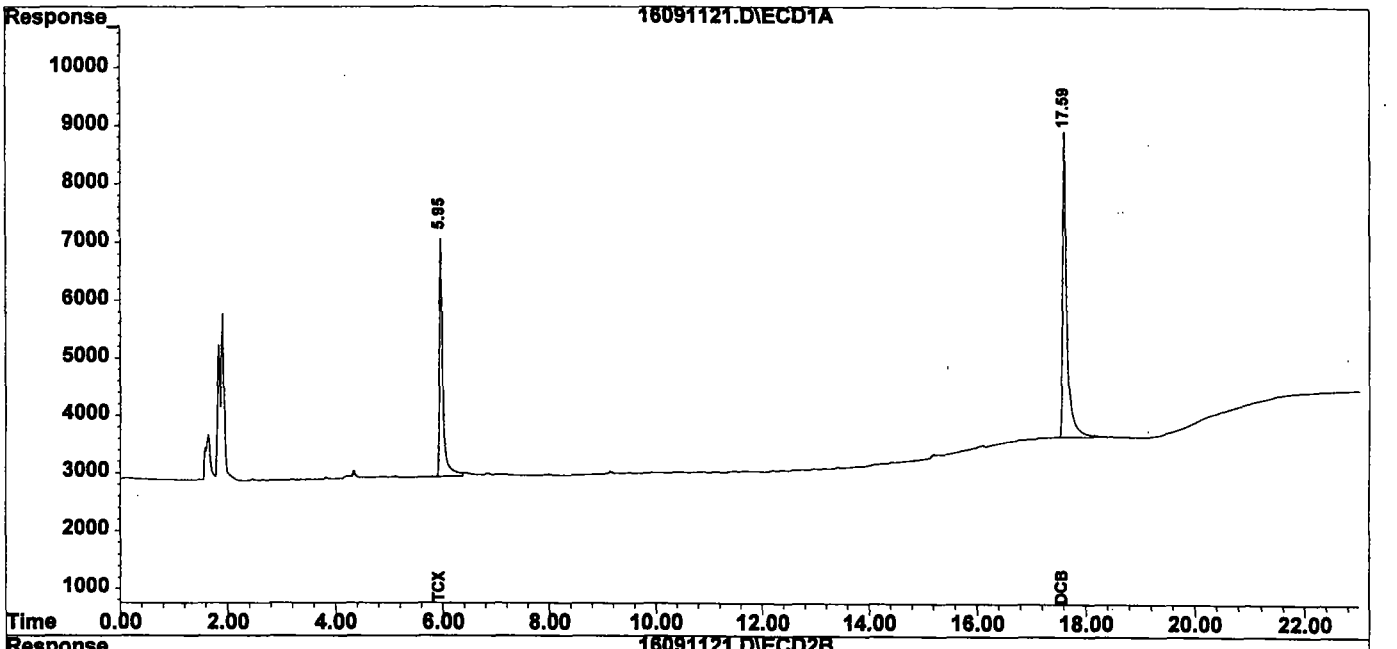
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

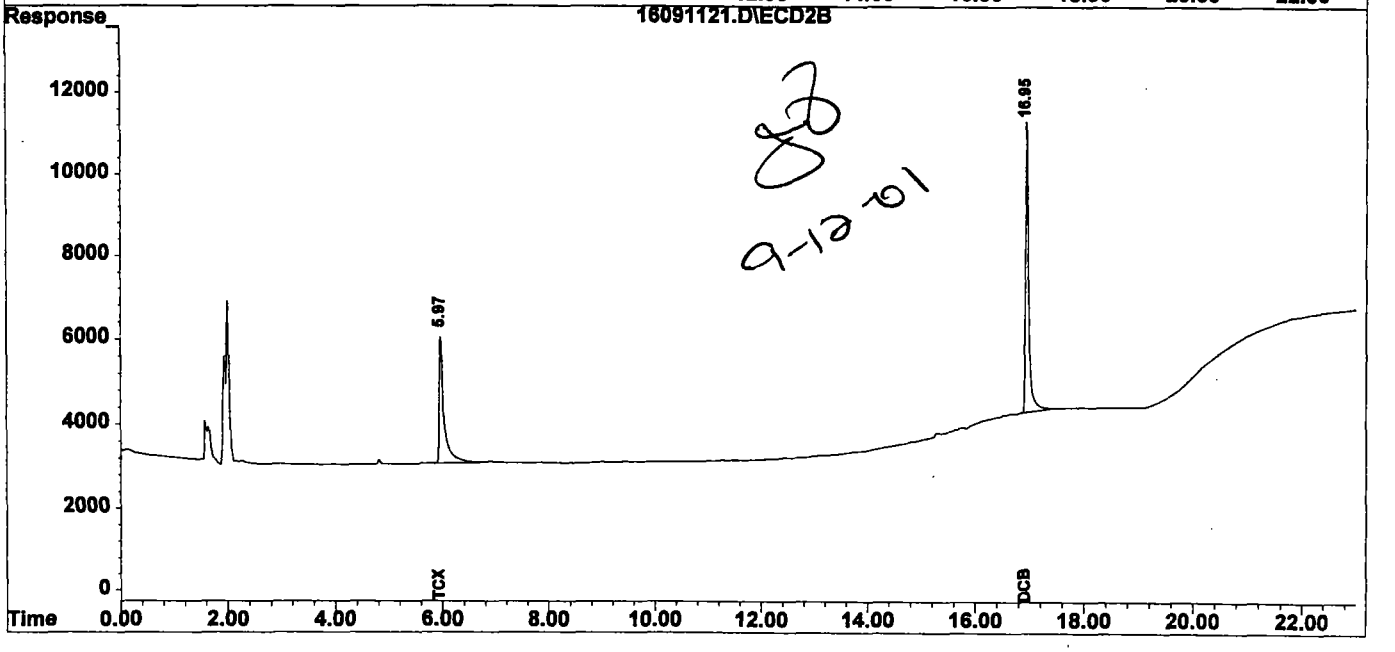
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091121.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091121.D\ECD2B.CH
Acq On : 11 Sep 2001 20:46 Operator: DDC
Sample : PIBLKCW Inst : HP_16
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 11:03 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9-12-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091121.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091121.D\ECD2B.CH
Acq On : 11 Sep 2001 20:46 Operator: DDC
Sample : PIBLKCW Inst : HP_16
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 11:03 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.96	5.97	172173	181542	24.9	23.1
22)	S DCB	17.59	16.95	278435	279062	24.4	24.7
	Target Compounds:						

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKCX

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 09/12/01

Injection Volume: 0.5(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.

PIBLKCX

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 09/12/01

Injection Volume: 0.5(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

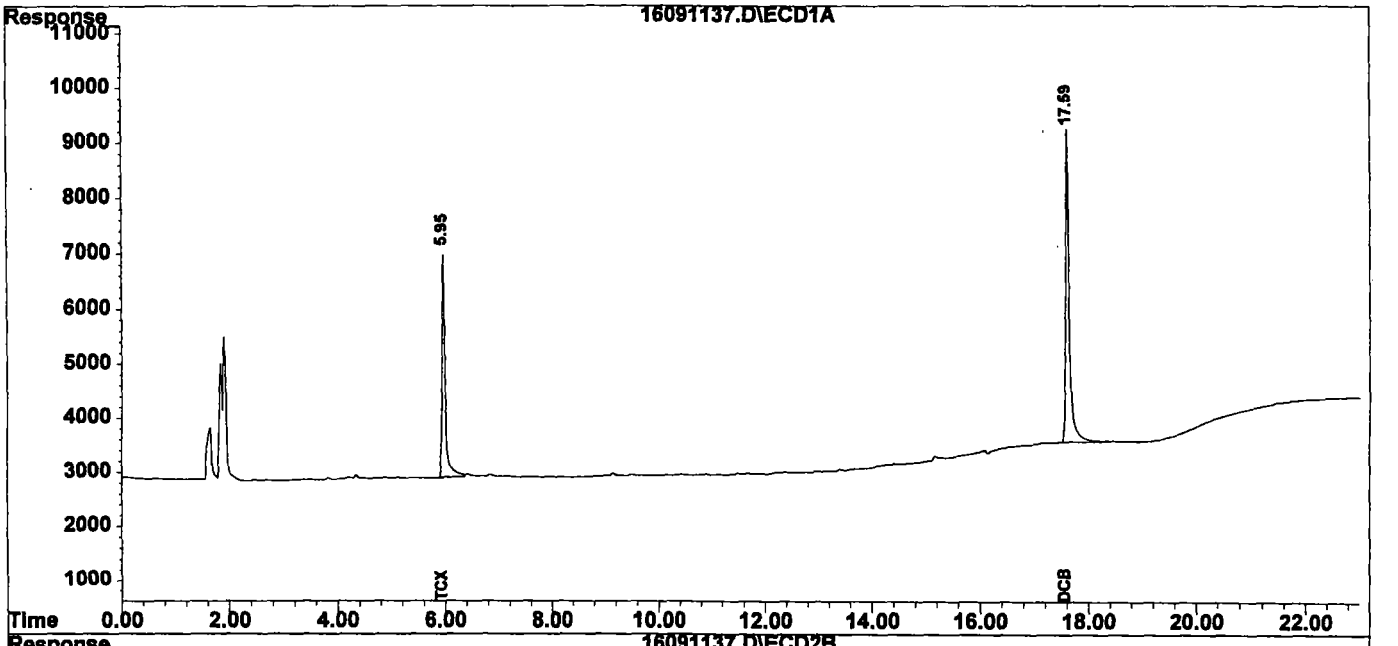
FORM I PCB

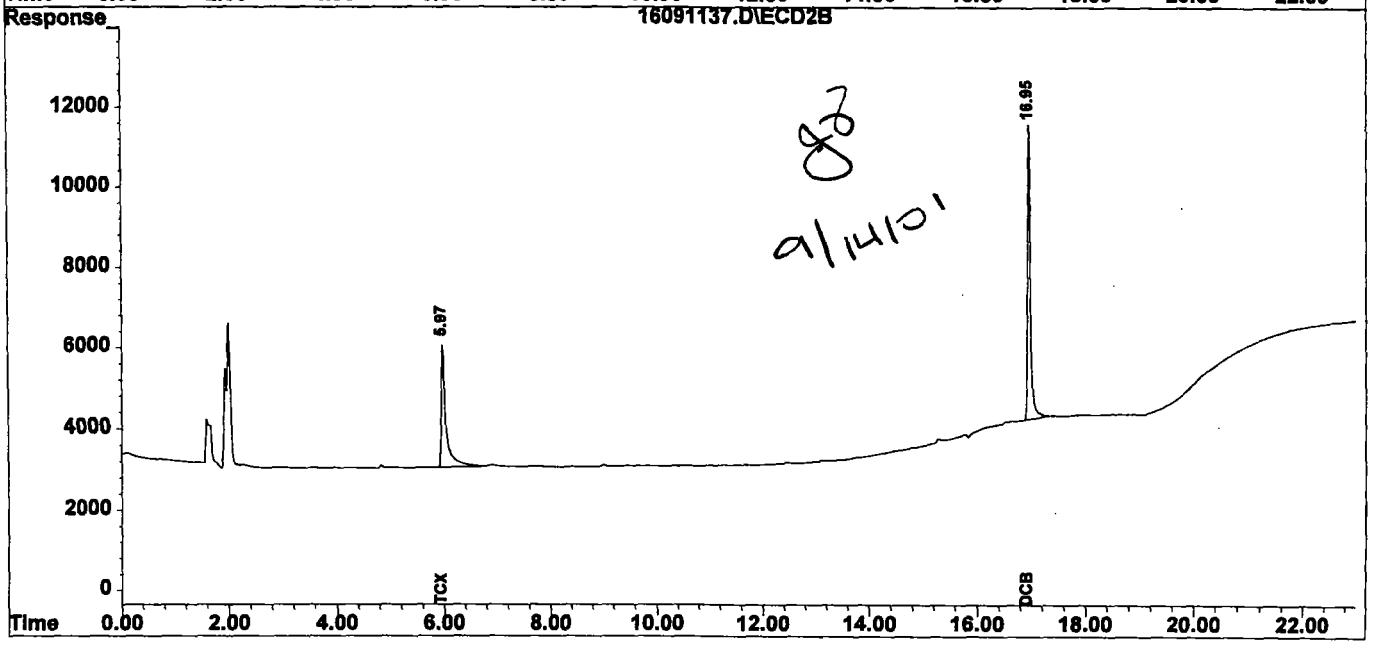
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091137.D\ECD1A.CH Vial: 41
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091137.D\ECD2B.CH
Acq On : 12 Sep 2001 3:49 Operator: DDC
Sample : PIBLKCX Inst : HP_16
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 11:09 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





8
9/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091137.D\ECD1A.CH Vial: 41
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091137.D\ECD2B.CH
Acq On : 12 Sep 2001 3:49 Operator: DDC
Sample : PIBLKCX Inst : HP_16
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 11:09 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.96	5.97	167720	184302	24.2	23.4
22)	S DCB	17.59	16.95	271400	272135	23.7	24.1
	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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKCY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 09/12/01

Injection Volume: 0.5(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.

PIBLKCY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 09/12/01

Injection Volume: 0.5(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

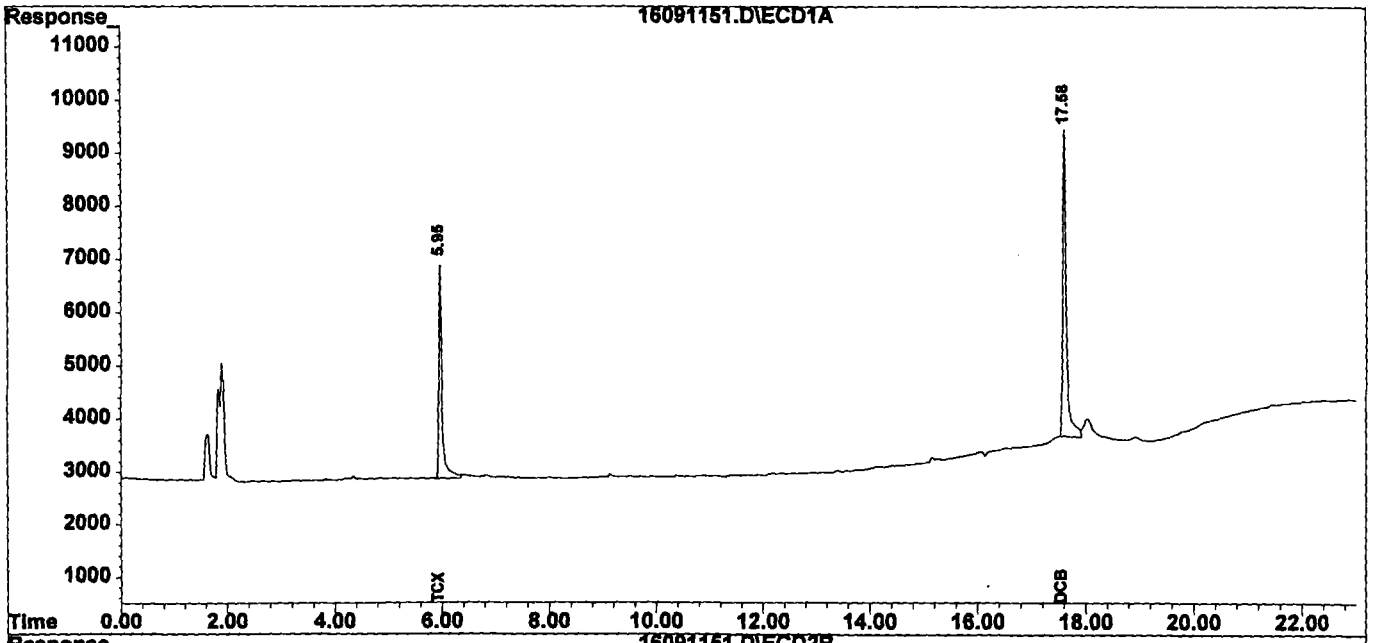
FORM I PCB

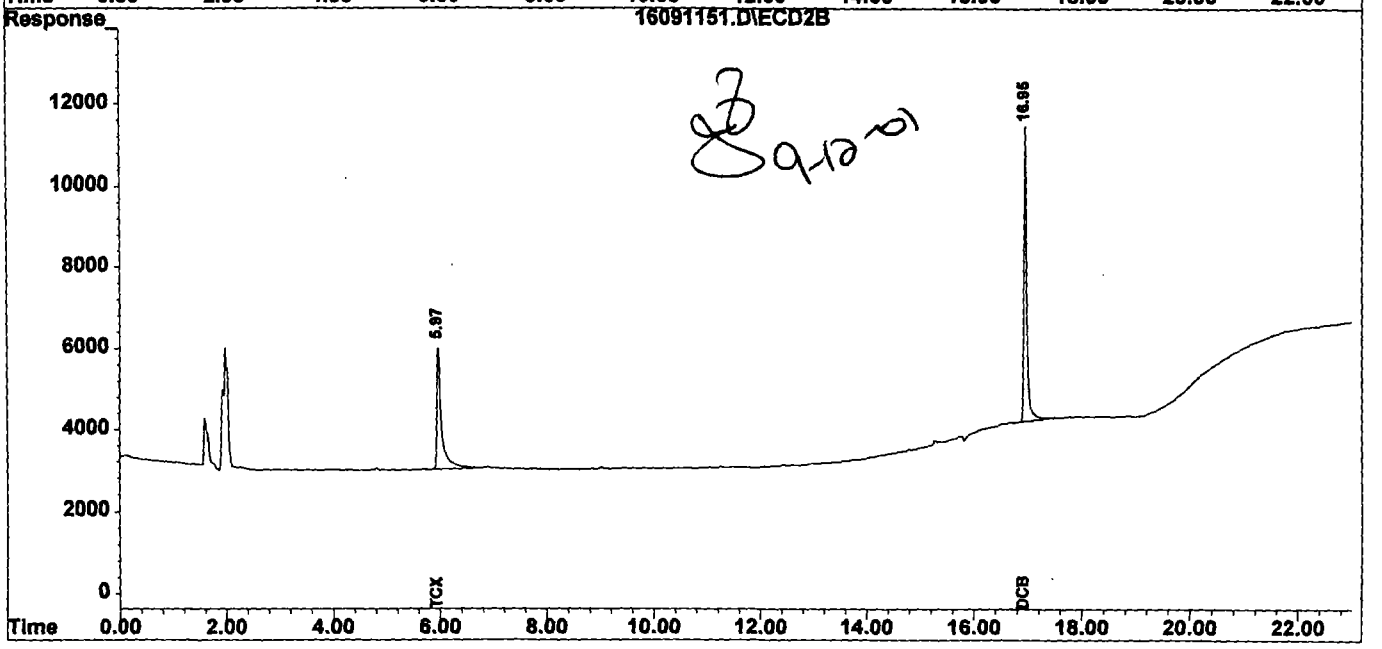
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091151.D\ECD1A.CH Vial: 55
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091151.D\ECD2B.CH
Acq On : 12 Sep 2001 9:59 Operator: DDC
Sample : PIBLKCY Inst : HP_16
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:20 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





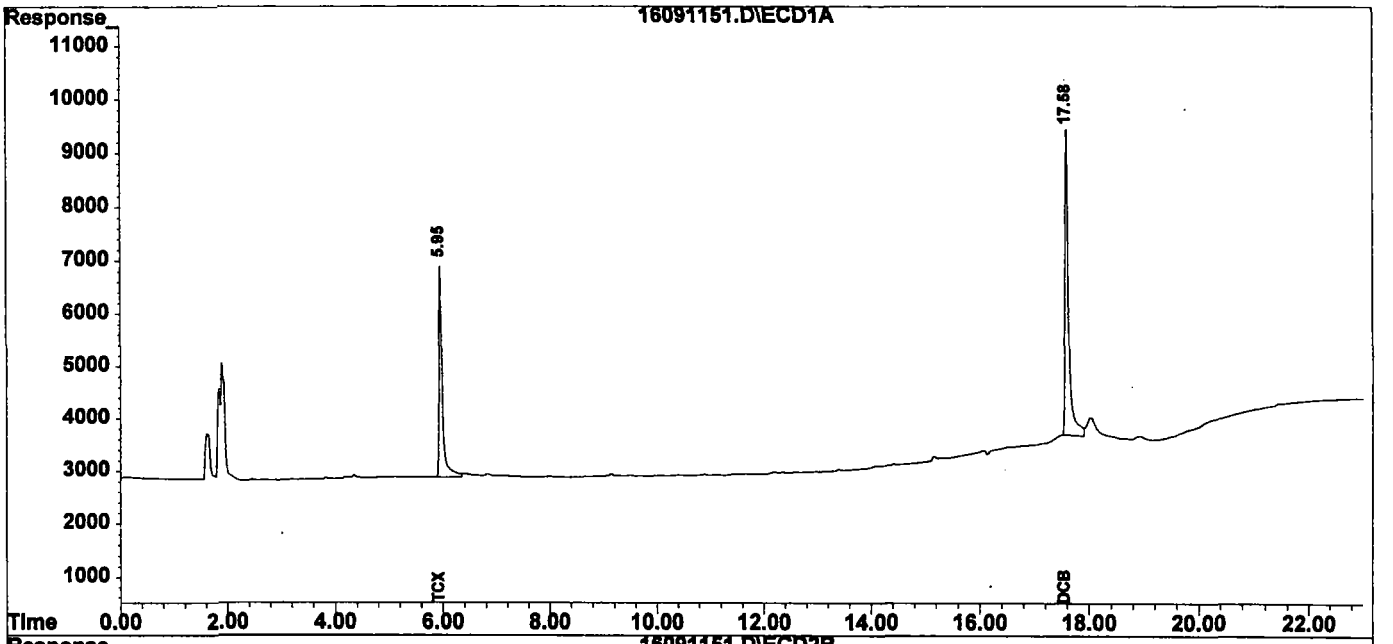
9-12-01

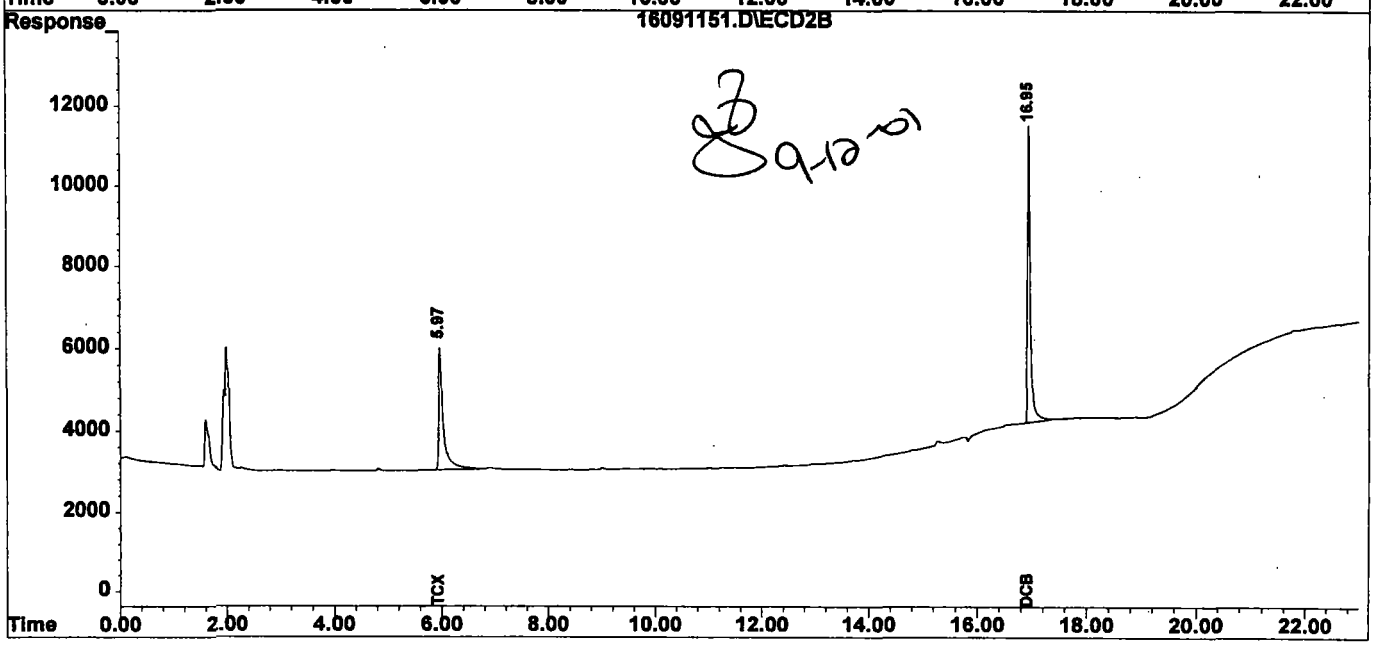
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091151.D\ECD1A.CH Vial: 55
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091151.D\ECD2B.CH
Acq On : 12 Sep 2001 9:59 Operator: DDC
Sample : PIBLKCY Inst : HP_16
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:20 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9-12-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091151.D\ECD1A.CH Vial: 55
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091151.D\ECD2B.CH
Acq On : 12 Sep 2001 9:59 Operator: DDC
Sample : PIBLKCY Inst : HP_16
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:20 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.96	5.97	168123	178903	24.3	22.8
22)	S DCB	17.58	16.95	259284	261869	22.7	23.2

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKCZ

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 09/12/01

Injection Volume: 0.5(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.

PIBLKCZ

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 09/12/01

Injection Volume: 0.5(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

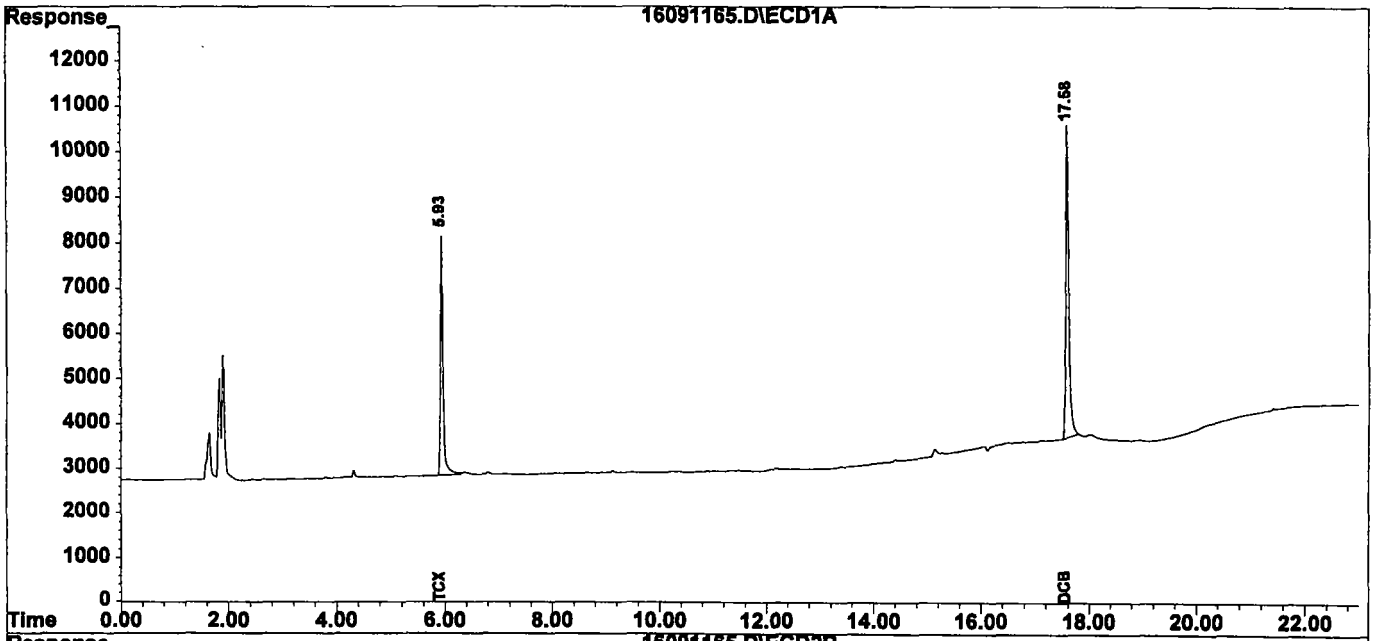
FORM I PCB

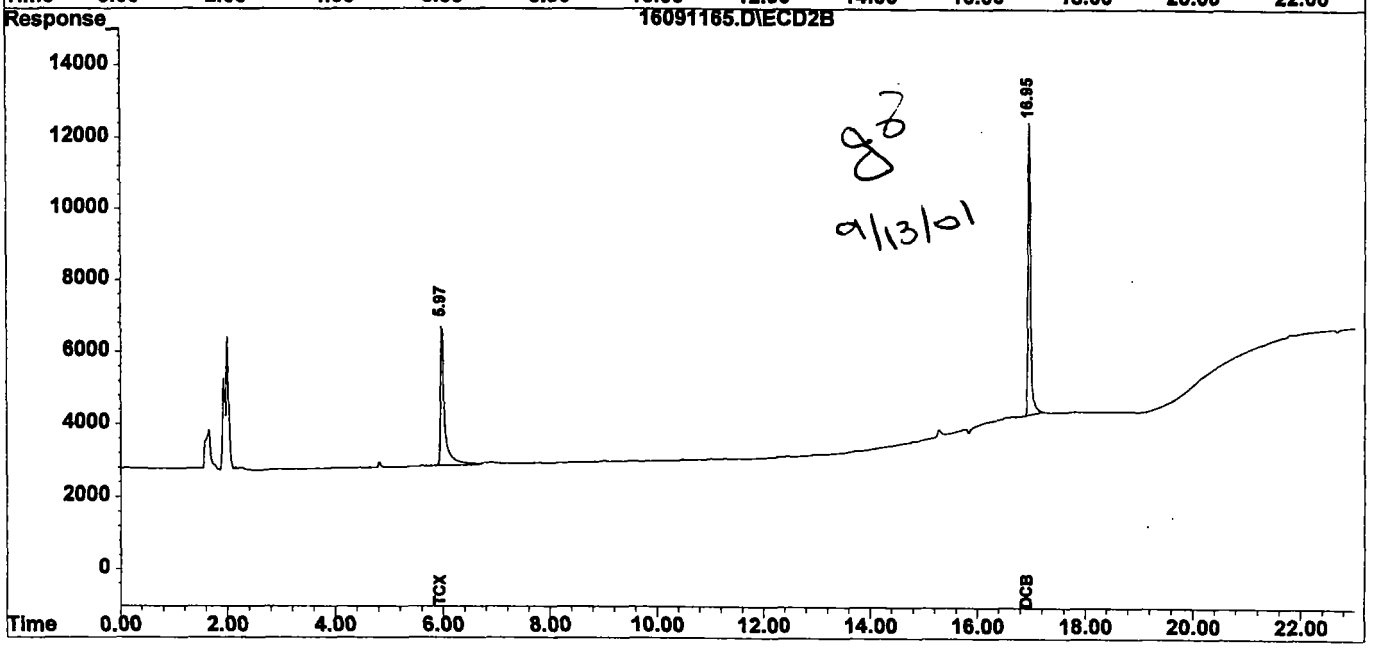
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091165.D\ECD1A.CH Vial: 1
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091165.D\ECD2B.CH
Acq On : 12 Sep 2001 16:22 Operator: DDC
Sample : PIBLKCZ Inst : HP_16
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 13 8:09 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





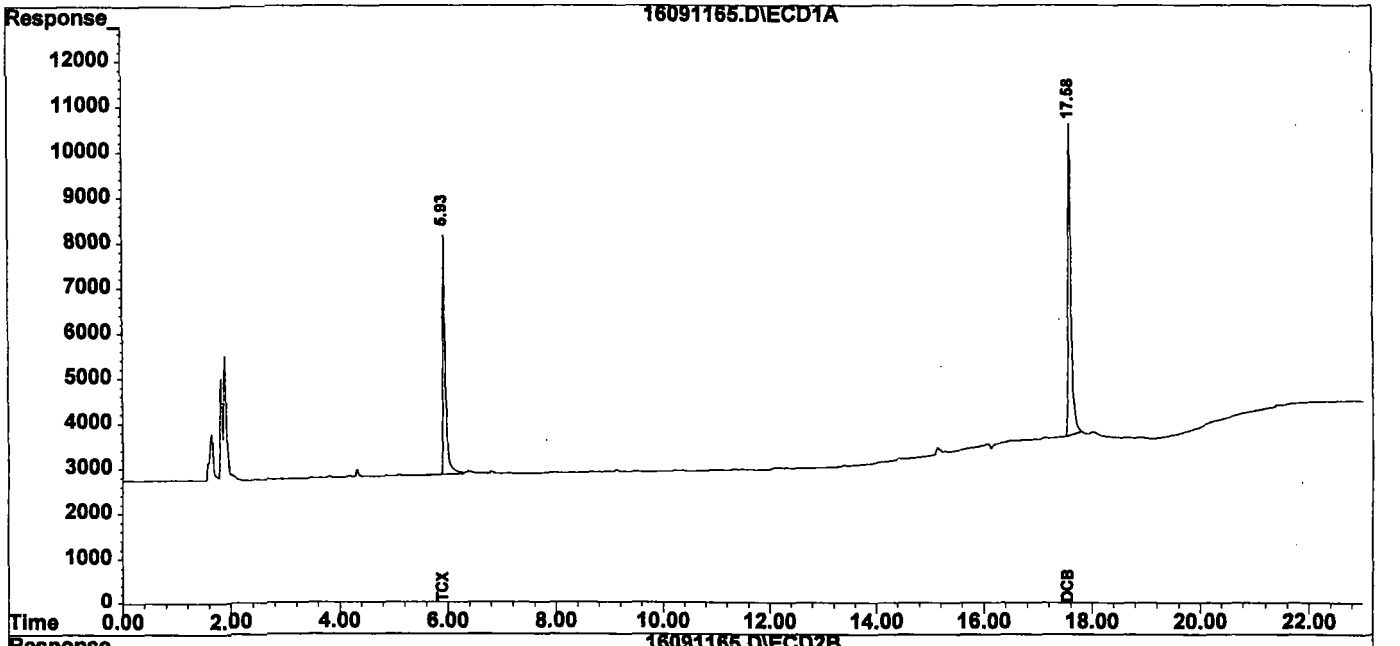
gs
9/13/01

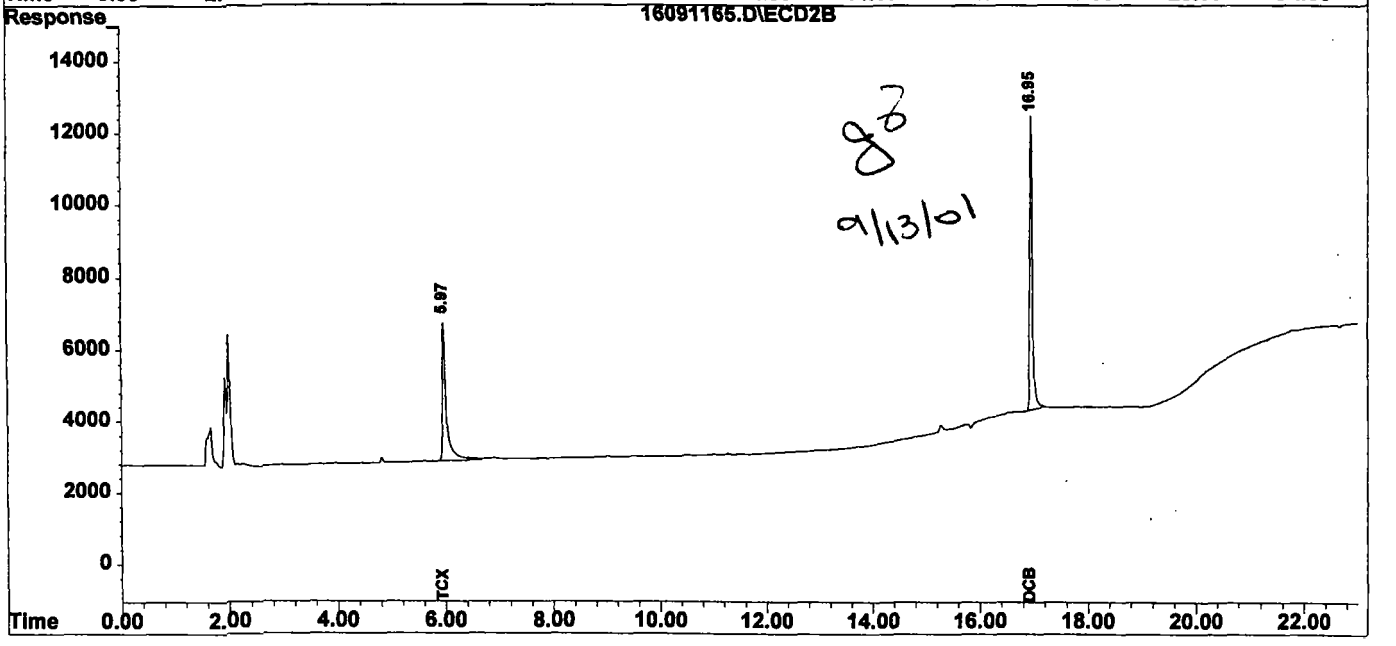
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091165.D\ECD1A.CH Vial: 1
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091165.D\ECD2B.CH
Acq On : 12 Sep 2001 16:22 Operator: DDC
Sample : PIBLKCZ Inst : HP_16
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 13 8:09 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





gz
9/13/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091165.D\ECD1A.CH Vial: 1
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091165.D\ECD2B.CH
Acq On : 12 Sep 2001 16:22 Operator: DDC
Sample : PIBLKCZ Inst : HP_16
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 13 8:09 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Thu Sep 13 08:21:32 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.94f	5.97	178301	203571	25.7	25.9
22)	S DCB	17.58	16.95	262275	276825	22.9	24.5

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ELCS1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix: (soil/water) SOIL Lab Sample ID: LC0815SA

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

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/11/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

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	110	
11096-82-5	Aroclor-1260	33	U
Surrogate amount spiked		6.67	

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091126.D\ECD1A.CH Vial: 30
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091126.D\ECD2B.CH
Acq On : 11 Sep 2001 22:58 Operator: DDC
Sample : LC0815SA *ELCS1 * Inst : HP_16
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:00 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.96	5.97	110865	111931	5.334	4.745	
	Spiked Amount 6.667			Recovery	=	80.01%	71.18%	
22)	S DCB	17.58	16.95	184357	195876	5.376	5.787	
	Spiked Amount 6.667			Recovery	=	80.64%	86.81%	
	Target Compounds:							
12)	L6 Aroclor-1254	11.14	10.62	125712	94739	103.4	100.9	
13)	L6 Aroclor-1254 {2}	11.56	11.19	124507	109256	116.8	97.1	
14)	L6 Aroclor-1254 {3}	12.52	11.78	174757	128724	101.6	165.8	#
15)	L6 Aroclor-1254 {4}	12.88	12.38	104036	101543	105.0	106.7	
16)	L6 Aroclor-1254 {5}	13.32	12.97	115537	186524	108.2	113.5	
	Sum Aroclor-1254			644548	620786	535.0	584.0	
	Average Aroclor-1254					106.991	116.802	

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ELCS2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix: (soil/water) SOIL Lab Sample ID: LD0815SA

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

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/11/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

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	110	
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

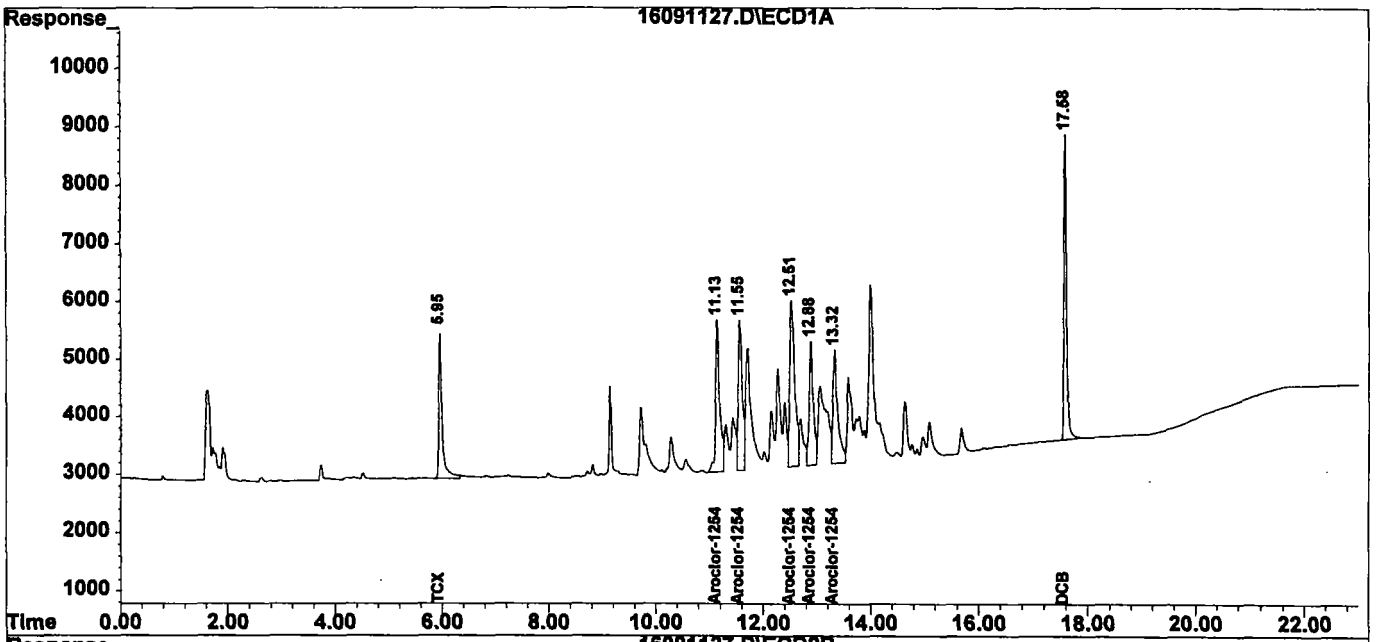
FORM I PCB

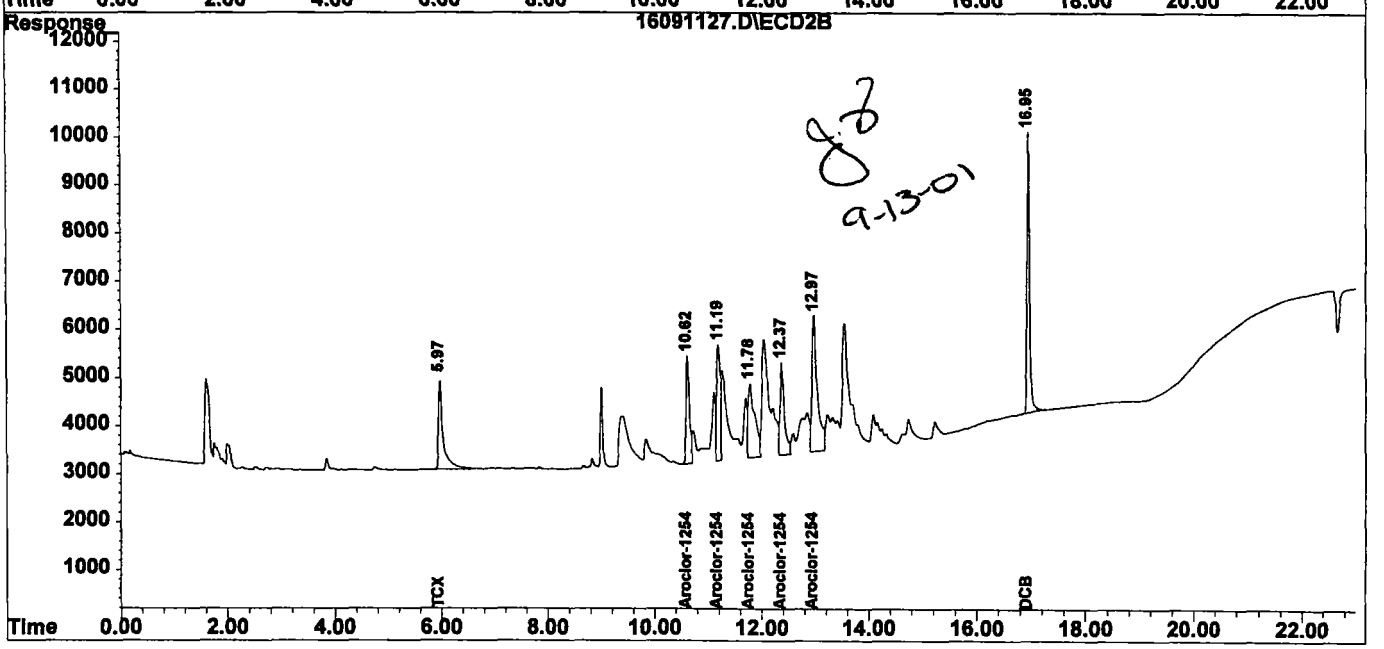
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091127.D\ECD1A.CH Vial: 31
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091127.D\ECD2B.CH
Acq On : 11 Sep 2001 23:25 Operator: DDC
Sample : LD0815SA *ELCS2 * Inst : HP_16
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:00 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091127.D\ECD1A.CH Vial: 31
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091127.D\ECD2B.CH
Acq On : 11 Sep 2001 23:25 Operator: DDC
Sample : LD0815SA *ELCS2 * Inst : HP_16
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:00 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.96	5.97	109609	114263	5.274	4.844	
	Spiked Amount 6.667			Recovery	=	79.11%	72.66%	
22)	S DCB	17.58	16.95	179885	191150	5.246	5.648	
	Spiked Amount 6.667			Recovery	=	78.69%	84.72%	
	Target Compounds:							
12)	L6 Aroclor-1254	11.14	10.62	138817	101275	114.2	107.9	
13)	L6 Aroclor-1254 {2}	11.56	11.19	130710	116253	122.6	103.3	
14)	L6 Aroclor-1254 {3}	12.52	11.78	185494	138250	107.8	178.1	#
15)	L6 Aroclor-1254 {4}	12.88	12.38	110788	109172	111.8	114.7	
16)	L6 Aroclor-1254 {5}	13.32	12.97	121802	197809	114.1	120.4	
	Sum Aroclor-1254			687612	662759	570.5	624.3	
	Average Aroclor-1254					114.096	124.868	

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02G6MS

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix: (soil/water) SOIL Lab Sample ID: 47268.13MS

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

% Moisture: 90 decanted: (Y/N) __ Date Received: 08/11/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/12/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	330	U
11104-28-2	Aroclor-1221	330	U
11141-16-5	Aroclor-1232	330	U
53469-21-9	Aroclor-1242	330	U
12672-29-6	Aroclor-1248	330	U
11097-69-1	Aroclor-1254	1300	
11096-82-5	Aroclor-1260	330	U
Surrogate amount spiked		66.67	

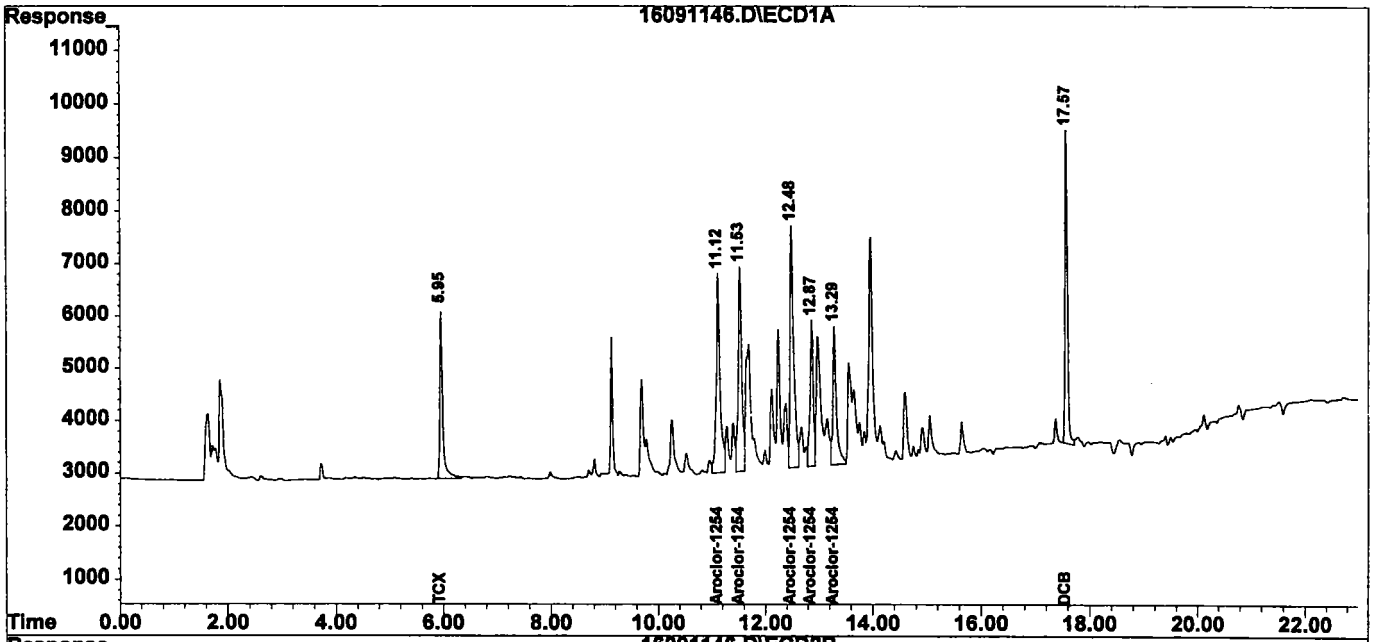
FORM I PCB

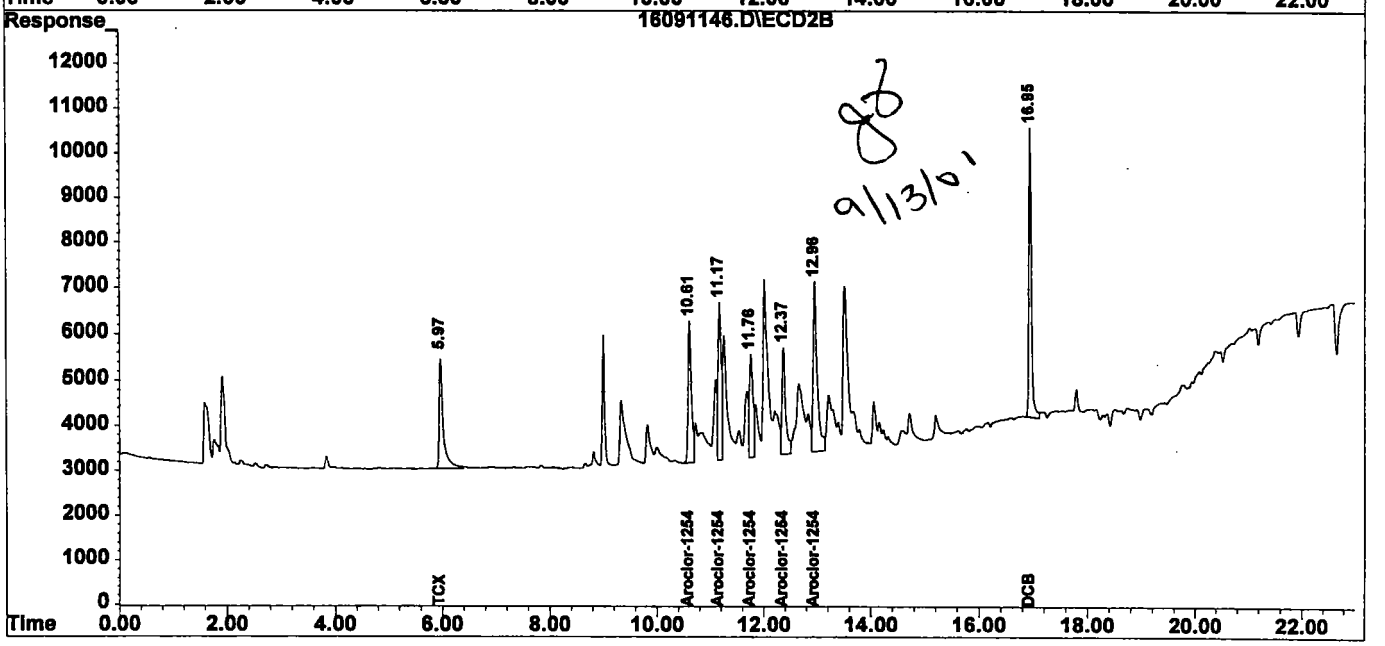
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091146.D\ECD1A.CH Vial: 50
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091146.D\ECD2B.CH
Acq On : 12 Sep 2001 7:47 Operator: DDC
Sample : 47268.13MS *E02G6MS * Inst : HP_16
Misc : *EPA*30G/5.0ML*90 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:19 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9/13/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091146.D\ECD1A.CH Vial: 50
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091146.D\ECD2B.CH
Acq On : 12 Sep 2001 7:47 Operator: DDC
Sample : 47268.13MS *E02G6MS * Inst : HP_16
Misc : *EPA*30G/5.0ML*90 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:19 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.96	5.97	121995	125682	58.7	53.3
	Spiked Amount 66.667			Recovery	=	88.05%	79.95%
22)	S DCB	17.58	16.95	185290	202105	54.0	59.7
	Spiked Amount 66.667			Recovery	=	81.00%	89.55%
	Target Compounds:						
12)	L6 Aroclor-1254	11.12	10.61	186878	129436	1537.2	1378.9
13)	L6 Aroclor-1254 {2}	11.53f	11.18	175859	150663	1649.3	1338.9
14)	L6 Aroclor-1254 {3}	12.49f	11.76	221553	109727	1288.0	1413.4
15)	L6 Aroclor-1254 {4}	12.87	12.37	117870	110426	1189.6	1159.9
16)	L6 Aroclor-1254 {5}	13.29f	12.96	125476	198078	1174.9	1205.5
	Sum Aroclor-1254			827636	698330	6839.1	6496.6
	Average Aroclor-1254					1367.811	1299.325

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

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02G6MSD

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02F5

Matrix: (soil/water) SOIL Lab Sample ID: 47268.14MSD

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

% Moisture: 90 decanted: (Y/N) __ Date Received: 08/11/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/12/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	330	U
11104-28-2	Aroclor-1221	330	U
11141-16-5	Aroclor-1232	330	U
53469-21-9	Aroclor-1242	330	U
12672-29-6	Aroclor-1248	330	U
11097-69-1	Aroclor-1254	1400	
11096-82-5	Aroclor-1260	330	U
	Surrogate amount spiked	66.00	

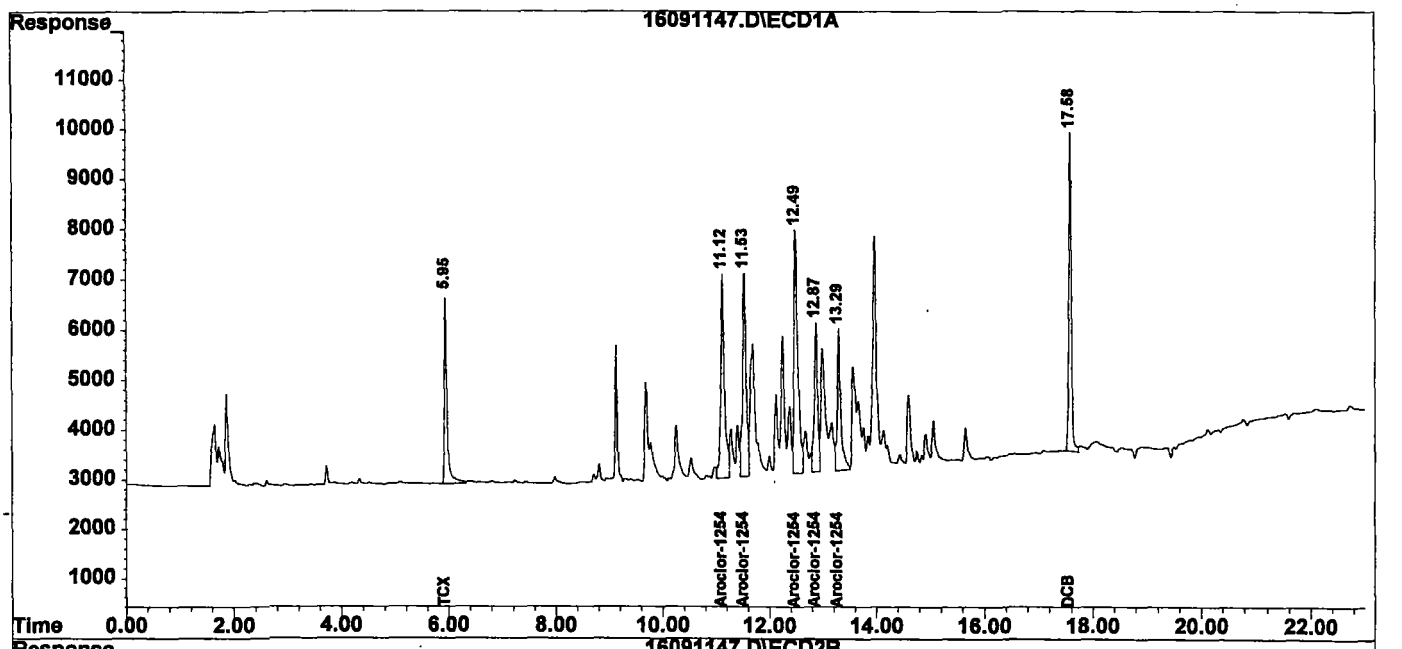
FORM I PCB

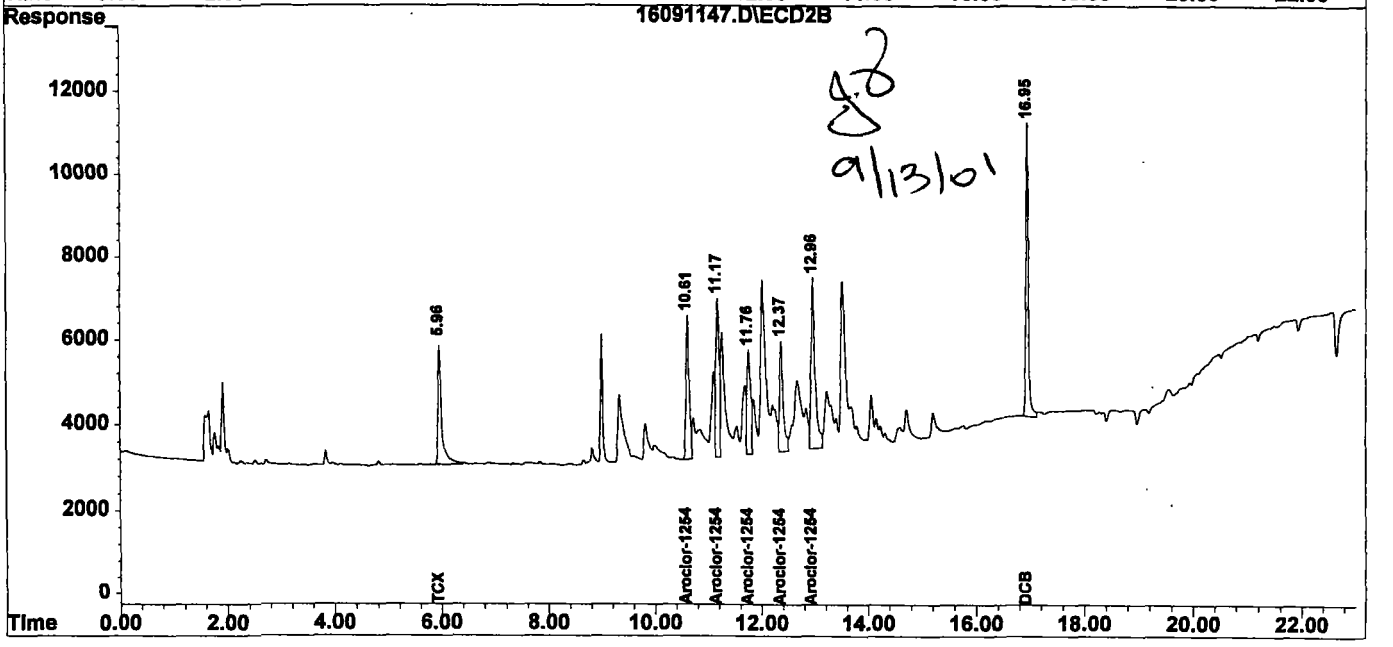
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091147.D\ECD1A.CH Vial: 51
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091147.D\ECD2B.CH
Acq On : 12 Sep 2001 8:14 Operator: DDC
Sample : 47268.14MSD *E02G6MSD * Inst : HP_16
Misc : *EPA*30.3G/5.0ML*90 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:19 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9/13/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091147.D\ECD1A.CH Vial: 51
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091147.D\ECD2B.CH
Acq On : 12 Sep 2001 8:14 Operator: DDC
Sample : 47268.14MSD *E02G6MSD * Inst : HP_16
Misc : *EPA*30.3G/5.0ML*90 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:19 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.95	5.96	133157	139023	63.4	58.4
	Spiked Amount 66.007			Recovery	=	96.05%	88.48%
22)	S DCB	17.58	16.95	203956	223600	58.9	65.4
	Spiked Amount 66.007			Recovery	=	89.23%	99.08%
	Target Compounds:						
12)	L6 Aroclor-1254	11.12	10.61	198654	140404	1617.9	1480.9
13)	L6 Aroclor-1254 {2}	11.53f	11.18	191354	163465	1776.9	1438.3
14)	L6 Aroclor-1254 {3}	12.49f	11.76	239726	119570	1379.8	1524.9
15)	L6 Aroclor-1254 {4}	12.87	12.37	128200	122781	1281.1	1277.0
16)	L6 Aroclor-1254 {5}	13.30f	12.96	137081	217762	1270.9	1312.1
	Sum Aroclor-1254			895015	763983	7326.5	7033.3
	Average Aroclor-1254					1465.308	1406.654

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

Gel Permeation Chromatography (GPC) Run Log - GPC1

SWOK/AATS SWL-OE-102-16 Rev.#: 2.1 Fraction Collected: 45 mLs

Col. ID.: 418002 Protocol: GC699 Fraction: PEST Cycle: 15-9

Cal. Std. Page: Client: EPA Case# 29602

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
08/20/01 12:23	1	CAL STD (INITIAL)	1_082001	
08/20/01 12:54	2	SB	1_082002	
08/20/01 13:25	3	SB	1_082003	
08/20/01 13:56	4	SB	1_082004	
08/20/01 14:28	5	SB	1_082005	
08/20/01 14:59	6	SB#082001A (PEST)	1_082006	
08/20/01 15:30	7	SB#082001B (PEST)	1_082007	
08/20/01 16:01	8	BL0815SA-EPA	1_082008	
08/20/01 16:32	9	BB0815SA-EPA	1_082009	
08/20/01 17:03	10	LC0815SA-EPA	1_082010	
08/20/01 17:33	11	LD0815SA-EPA	1_082011	
08/20/01 18:05	12	47266.17-E02D0MS-EPA	1_082012	
08/20/01 18:35	13	47268.06-E02G0-EPA	1_082013	
08/20/01 19:06	14	47268.07-E02G1-EPA	1_082014	
08/20/01 19:37	15	47268.08-E02G2-EPA	1_082015	
08/20/01 20:08	16	47279.01-E02G7-EPA	1_082016	
08/20/01 20:39	17	47279.02-E02G8-EPA	1_082017	
08/20/01 21:10	18	47279.08-E02H4-EPA	1_082018	
08/20/01 21:41	19	47279.03-E02G9-EPA	1_082019	
08/20/01 22:12	20	47279.04-E02H0-EPA	1_082020	
08/20/01 22:43	21	47279.05-E02H1-EPA	1_082021	

8/21/01 8/21/01

Verification Signature/Date Analyst Signature/Date

Book: OE-102-16-RUN-19 Page No.: 102

Gel Permeation Chromatography (GPC) Run Log - GPC1

SWOK/AATS SWL-OE-102-16 Rev.#: 2.1 Fraction Collected: 45 mLs

Col. ID.: 418002 Protocol: GC699 Fraction: PEST Cycle: 15-9

Cal. Std. Page: Client: EPA Case# 29602

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
08/20/01 23:14	22	47279.06-E02H2-EPA	1_082022	
08/20/01 23:45	23	47279.07-E02H3-EPA	1_082023	
08/21/01 00:16	24	47268.02-E02F6-EPA	1_082024	
08/21/01 00:47	25	47268.03-E02F7-EPA	1_082025	
08/21/01 01:18	26	47268.04-E02F8-EPA	1_082026	
08/21/01 01:48	27	47268.05-E02F9-EPA	1_082027	
08/21/01 02:20	28	47268.09-E02G3-EPA	1_082028	
08/21/01 02:51	29	47268.10-E02G4-EPA	1_082029	
08/21/01 03:22	30	47268.11-E02G5-EPA	1_082030	
08/21/01 03:52	31	47268.12-E02G6-EPA	1_082031	
08/21/01 04:24	32	47268.13-E02G6MS-EPA	1_082032	
08/21/01 04:55	33	47268.14-E02G6MSD-EPA	1_082033	
08/21/01 05:26	34	47268.01-E02F5-EPA	1_082034	
08/21/01 05:57	35	SB	1_082035	
08/21/01 06:28	36	SB	1_082036	
08/21/01 06:59	37	SB	1_082037	
08/21/01 07:30	38	SB	1_082038	
08/21/01 08:01	39	CAL STD (FINAL)	1_082039	

Compound	Initial RT	Final RT	% Difference
Phthalate	14.14	14.08	0.42
Methoxychlor	15.73	15.66	0.44
Perylene	20.46	20.38	0.39

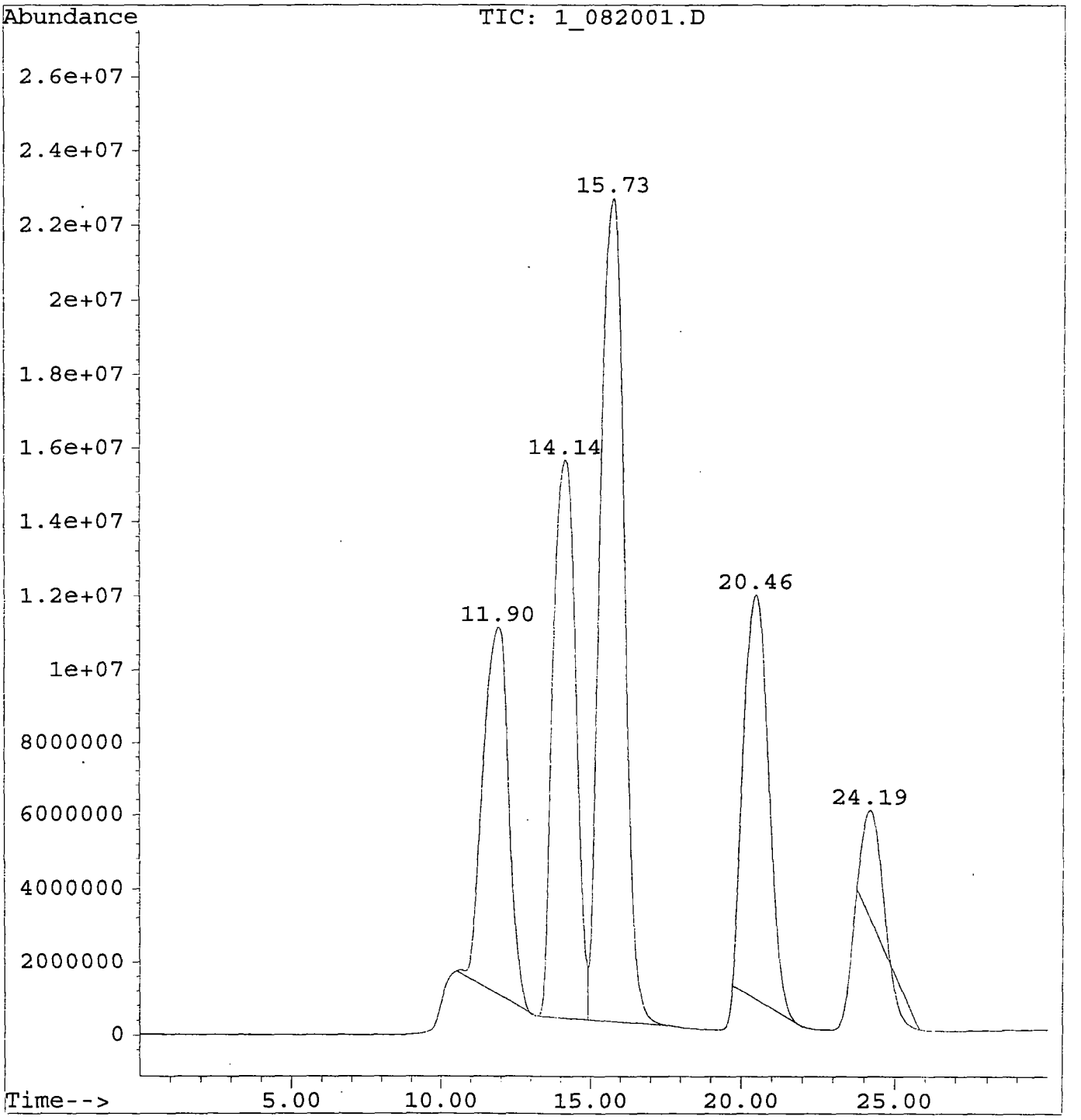
8/21/01
Verification Signature/Date

8/21/01
Analyst Signature/Date

Book: OE-102-16-RUN-19 Page No.: 103

Data File : C:\HPCHEM\5\DATA\082001\1_082001.D
Acq On : 20 Aug 01 12:23 PM
Sample : CAL STD (INITIAL)
Misc : COL# 418002

Vial: 1
Operator: CR COL#
Inst : GPC1
Multiplr: 1.00



1) 11.90 = Corn Oil

3) 14.14 = Pthalate
4) 15.73 = Methoxychlor
5) 20.46 = Perylene

Chromatographic Resolution Report

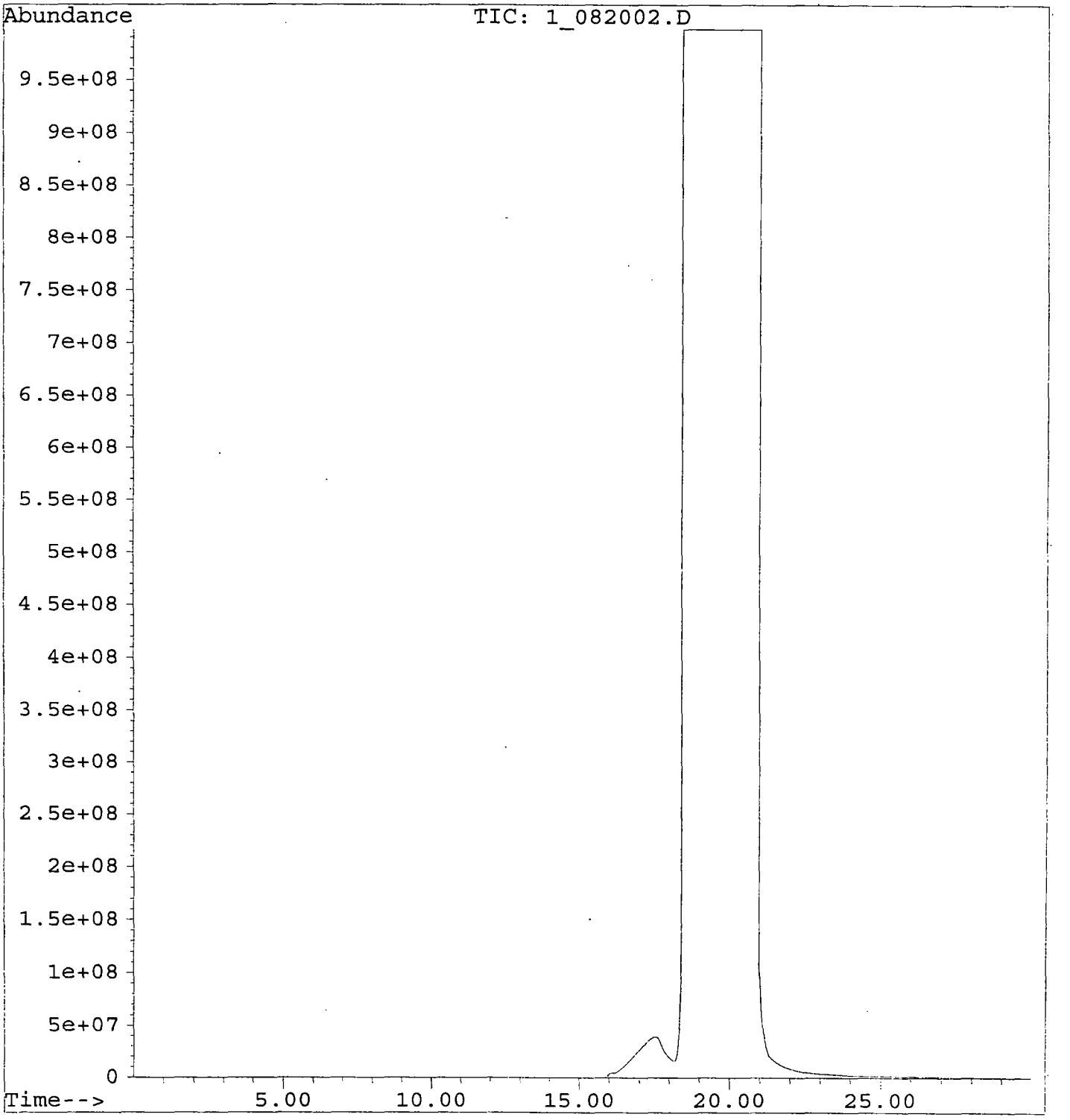
Data File : C:\HPCHEM\5\DATA\082001\1_082001.D
Acq On : 20 Aug 01 12:23
Sample : CAL STD (INITIAL)
Misc : COL# 418002

Vial: 1
Operator: CR COL# 41
Inst : GPC1
Multiplr: 1.00

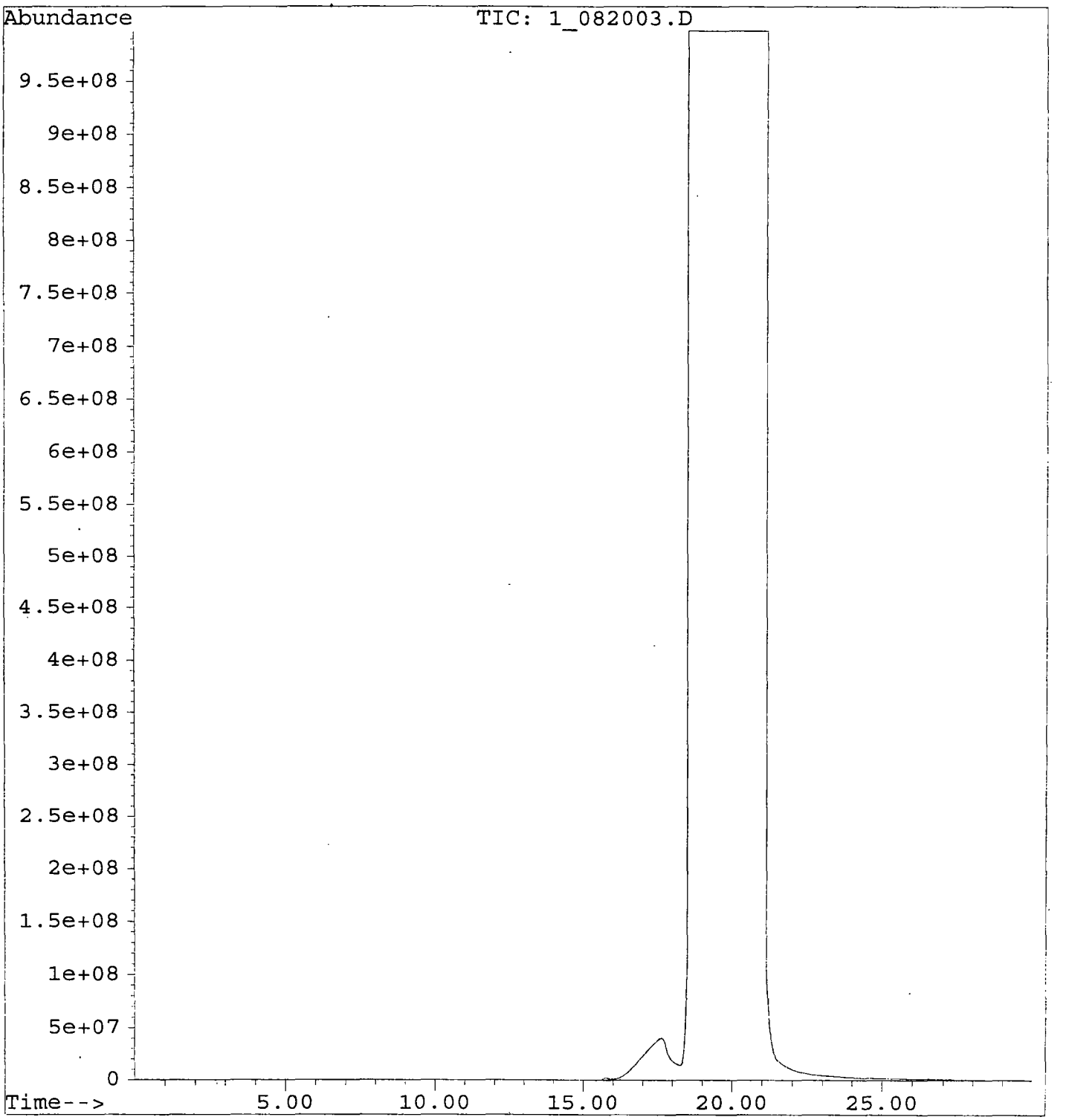
Method : C:\HPCHEM\5\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
11.900	14.138	100.00
14.138	15.729	90.85
15.729	20.461	100.00
20.461	24.187	100.00

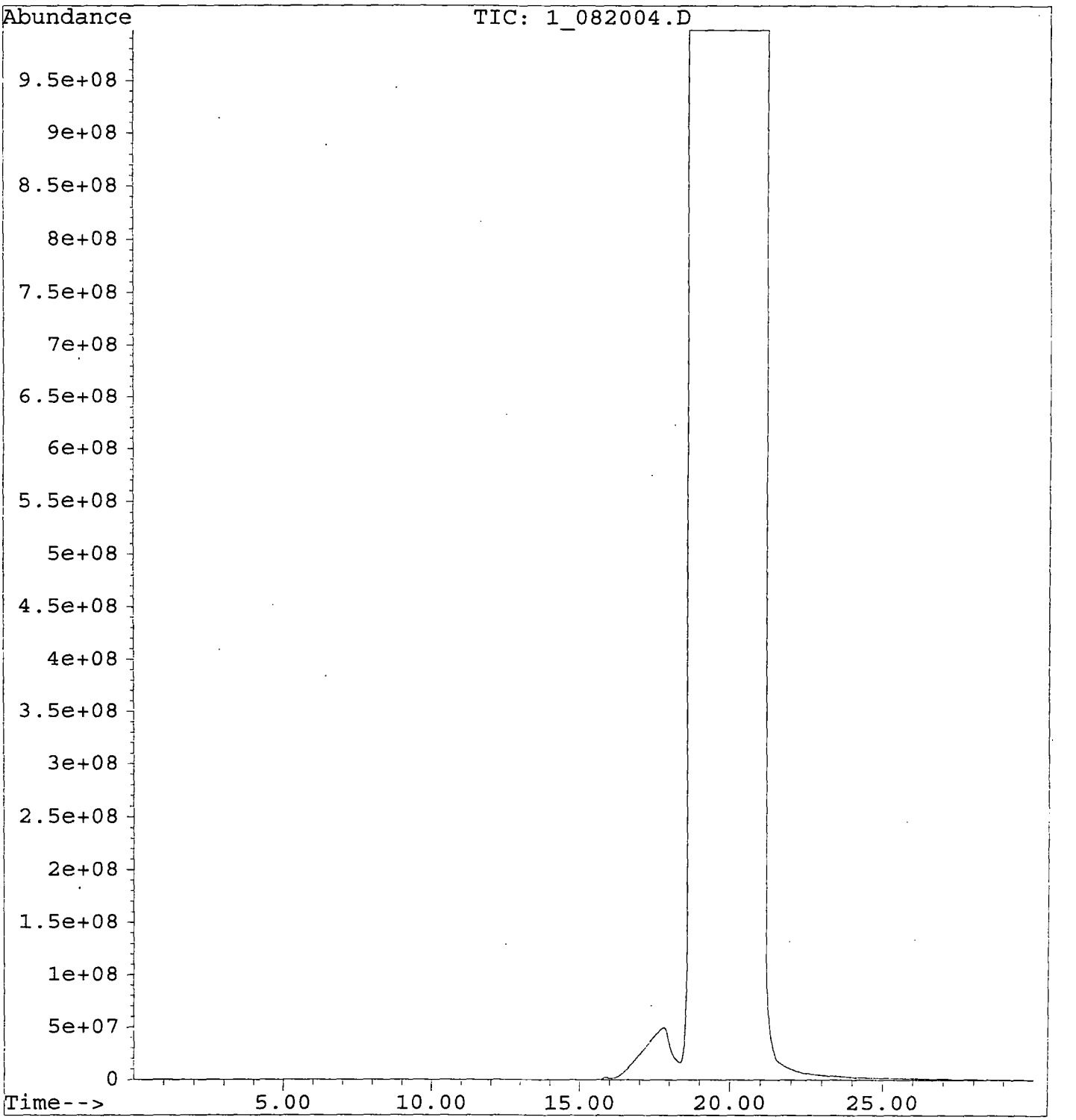
File : C:\HPCHEM\5\DATA\082001\1_082002.D
Operator : CR COL# 418002
Acquired : 20 Aug 01 12:54 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 2



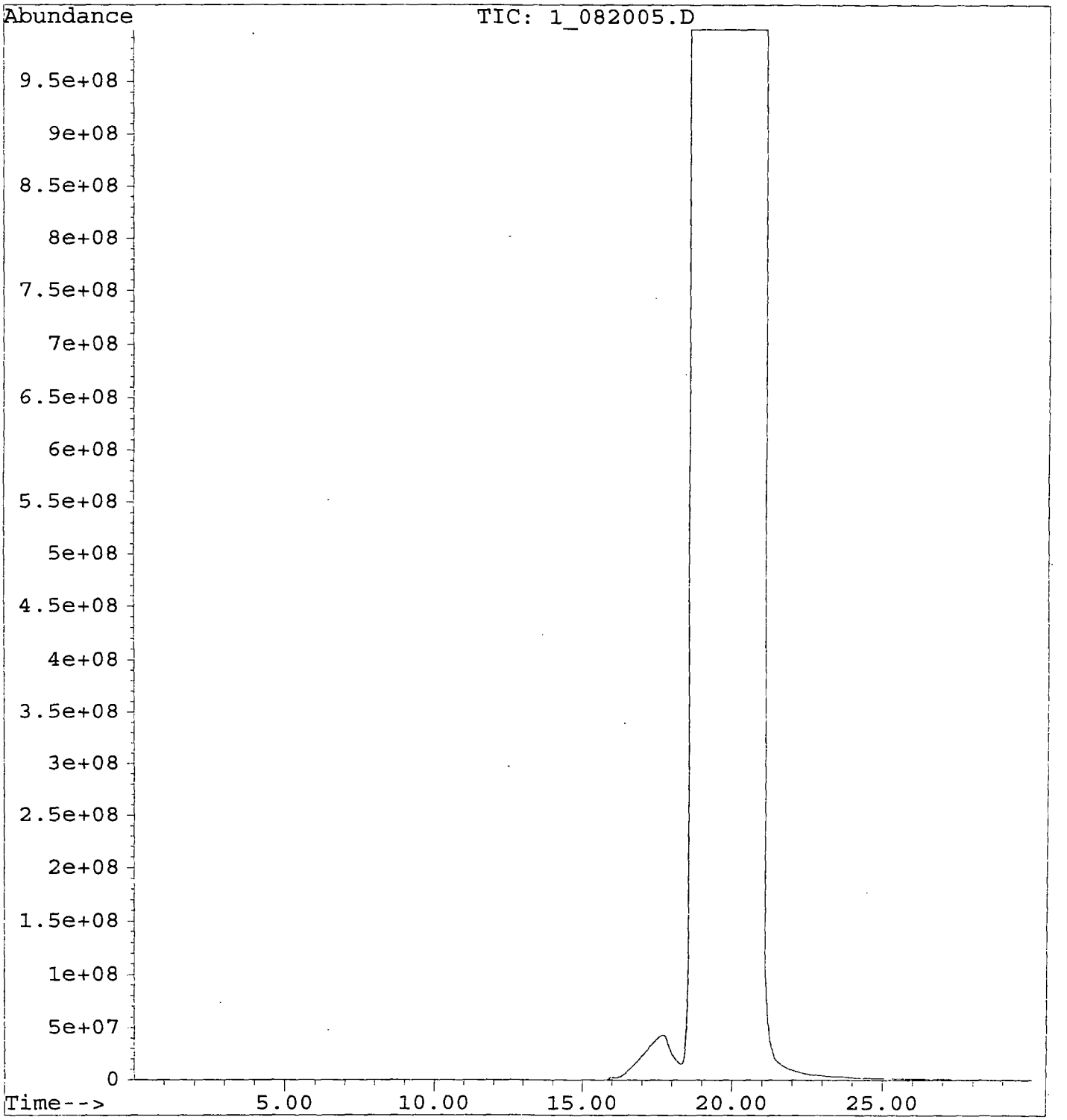
File : C:\HPCHEM\5\DATA\082001\1_082003.D
Operator : CR COL# 418002
Acquired : 20 Aug 01 13:25 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 3



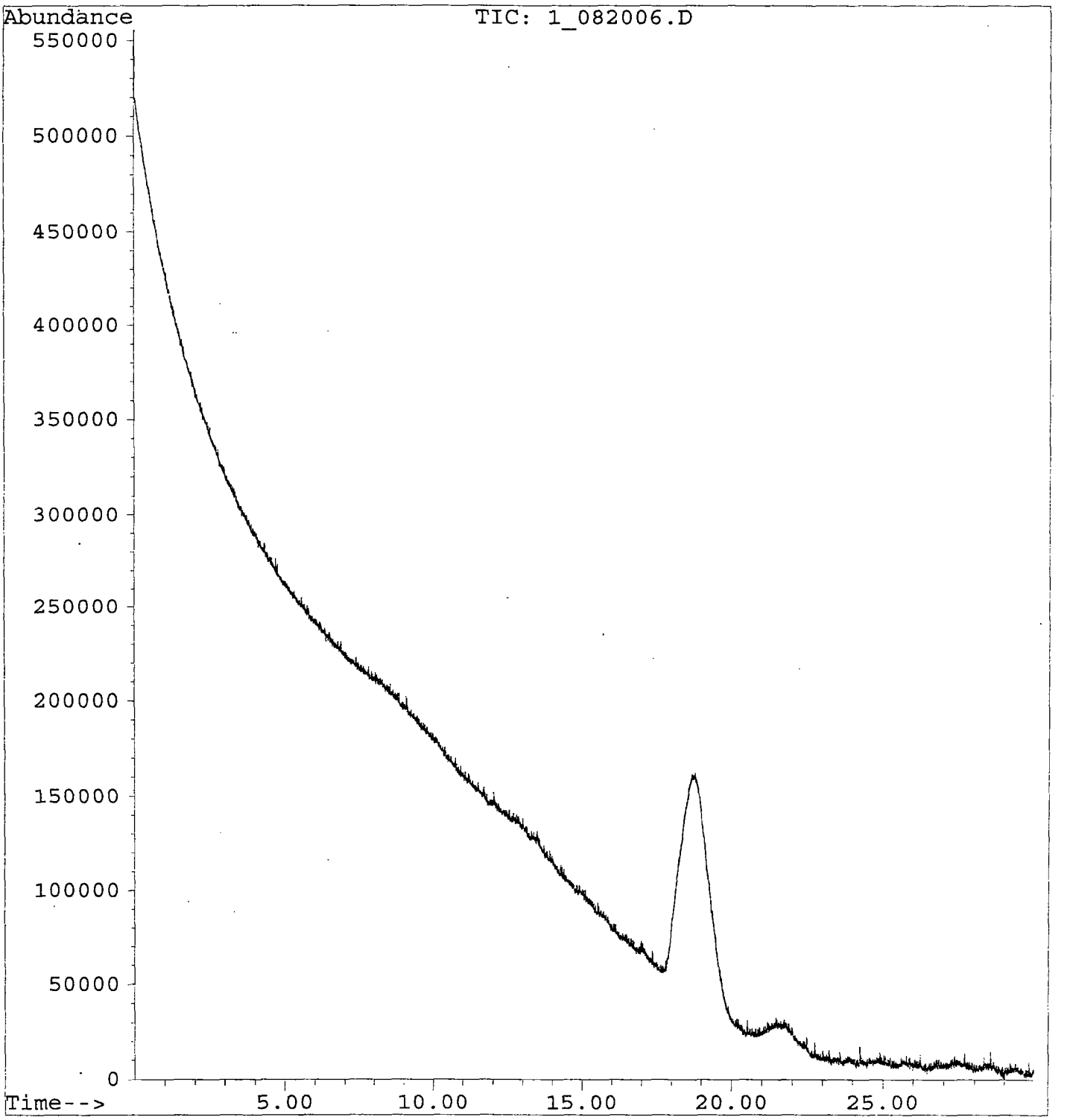
File : C:\HPCHEM\5\DATA\082001\1_082004.D
Operator : CR COL# 418002
Acquired : 20 Aug 01 13:56 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 4



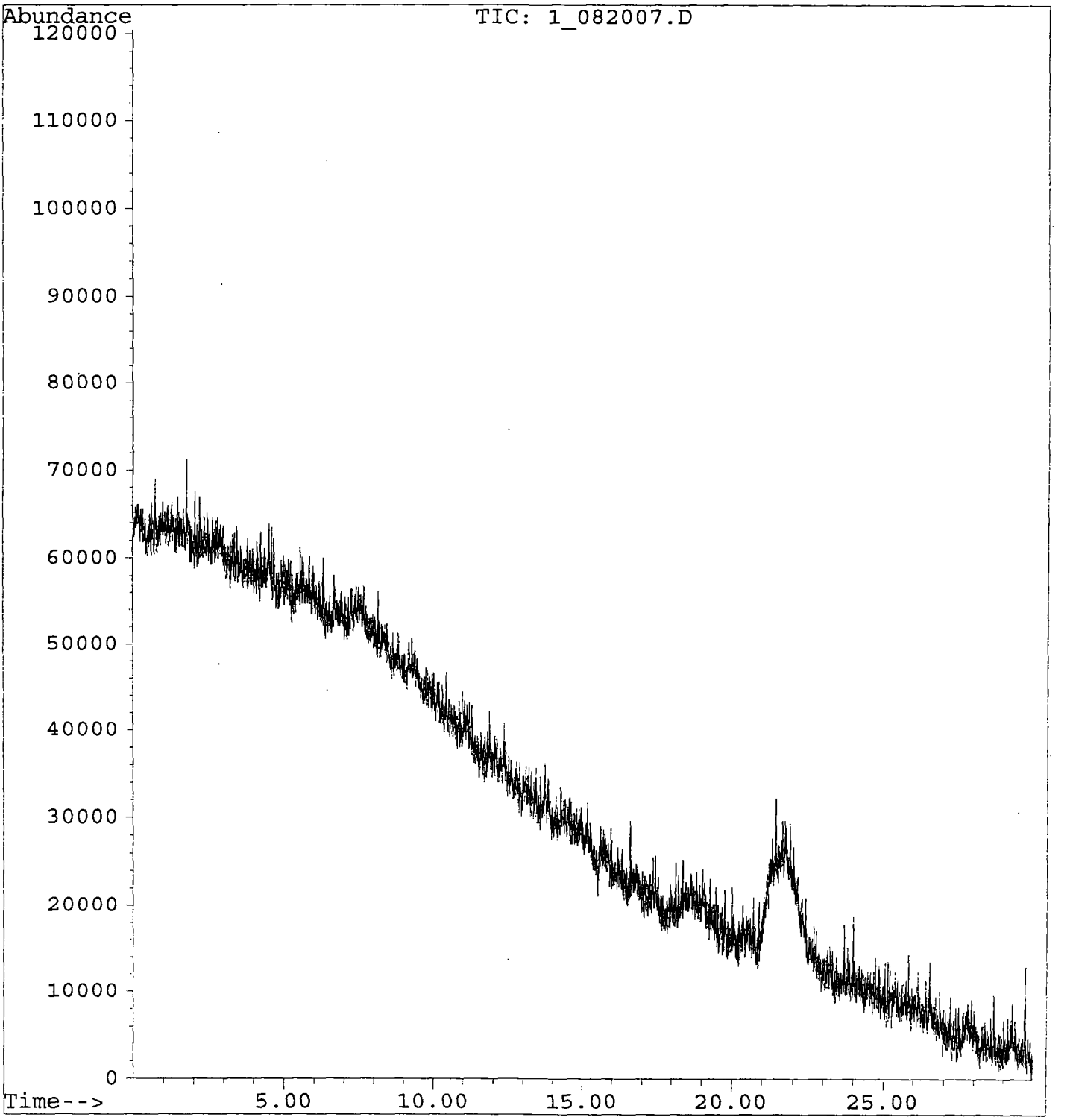
File : C:\HPCHEM\5\DATA\082001\1_082005.D
Operator : CR COL# 418002
Acquired : 20 Aug 01 14:28 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 5



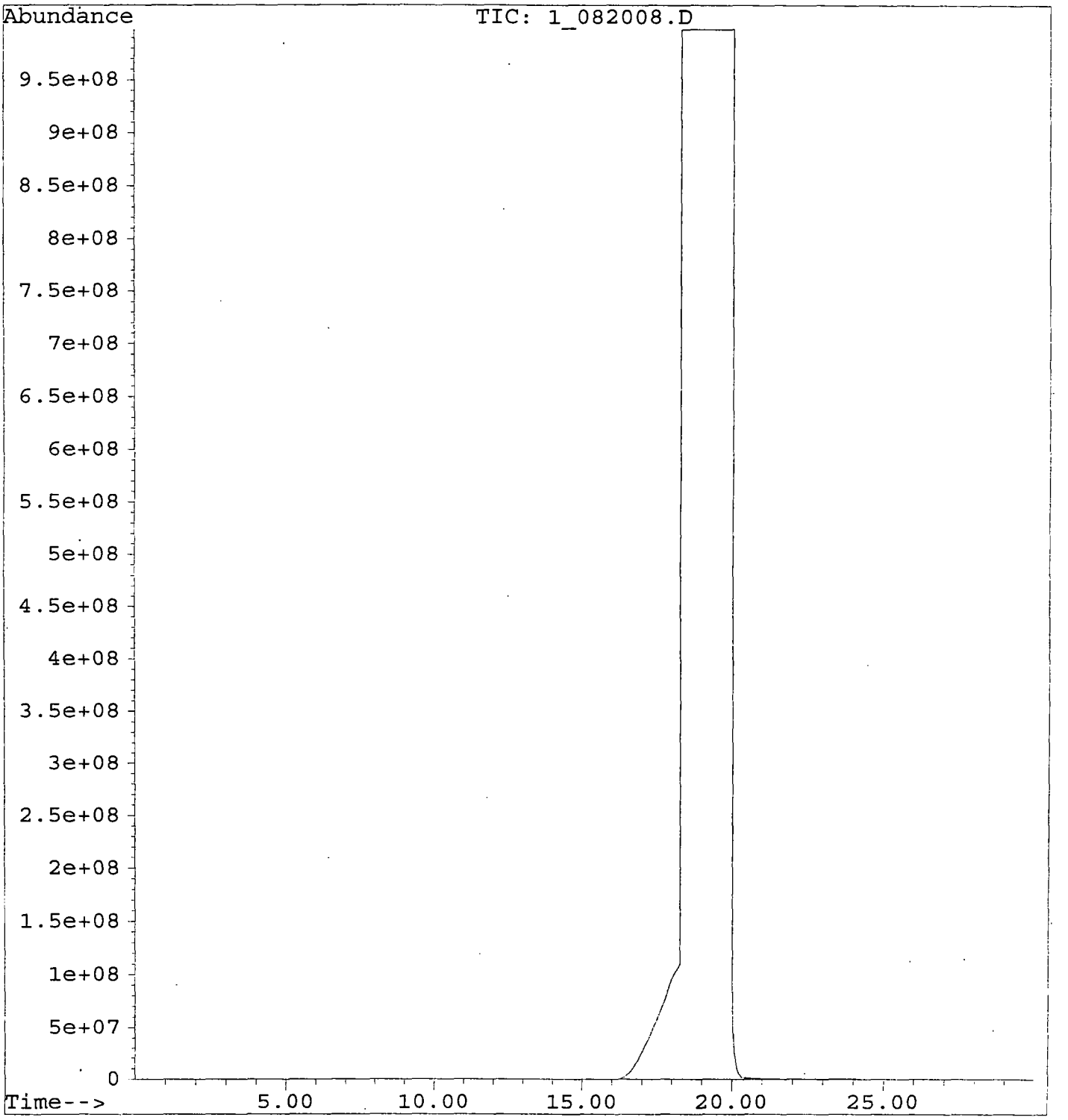
File : C:\HPCHEM\5\DATA\082001\1_082006.D
Operator : CR COL# 418002
Acquired : 20 Aug 01 14:59 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB#082001A (PEST)
Misc Info : COL# 418002
Vial Number: 6



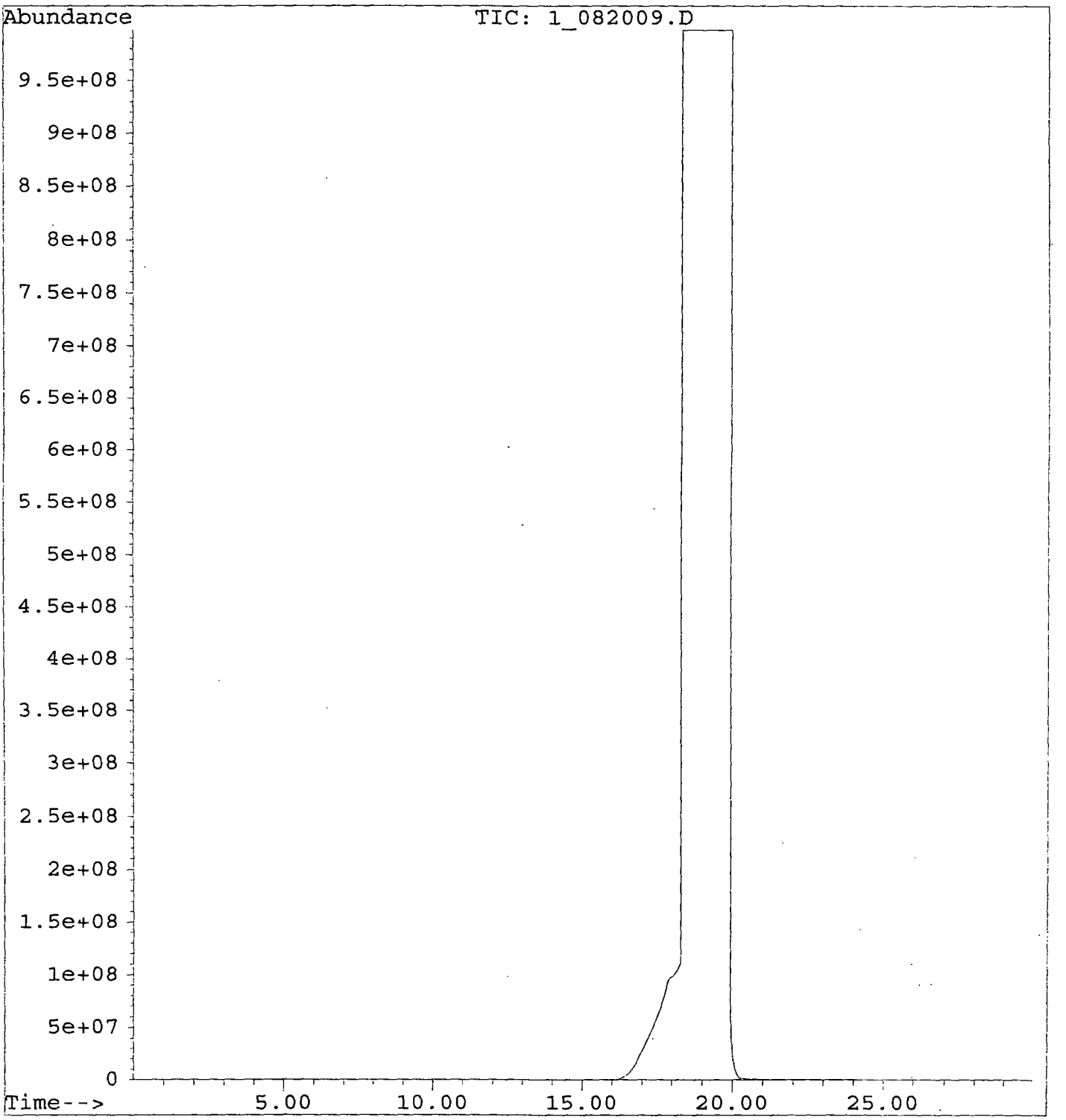
File : C:\HPCHEM\5\DATA\082001\1_082007.D
Operator : CR COL# 418002
Acquired : 20 Aug 01 15:30 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB#082001B (PEST)
Misc Info : COL# 418002
Vial Number: 7



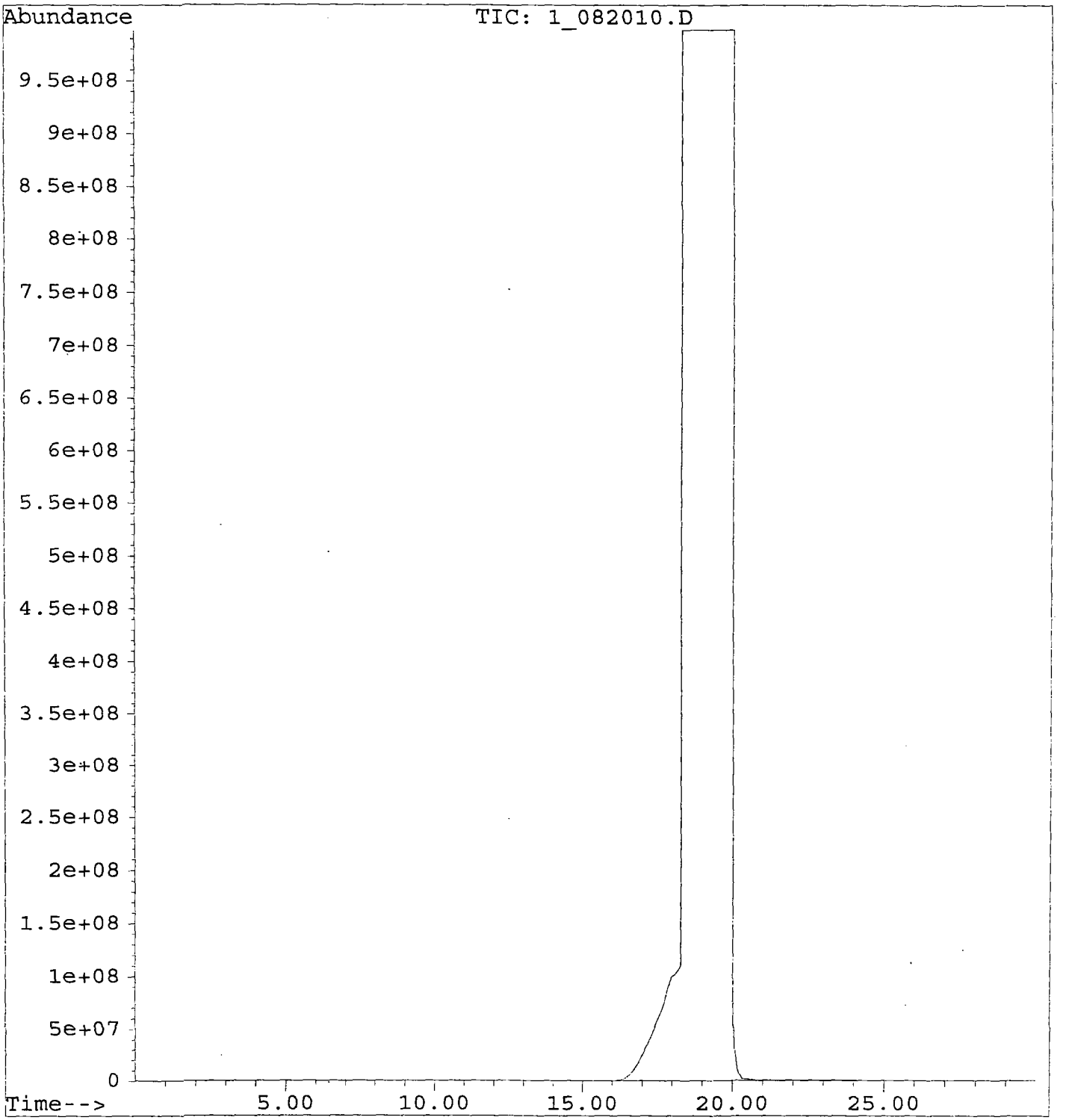
File : C:\HPCHEM\5\DATA\082001\1_082008.D
Operator : CR COL# 418002
Acquired : 20 Aug 01 16:01 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: BL0815SA-EPA
Misc Info : COL# 418002
Vial Number: 8



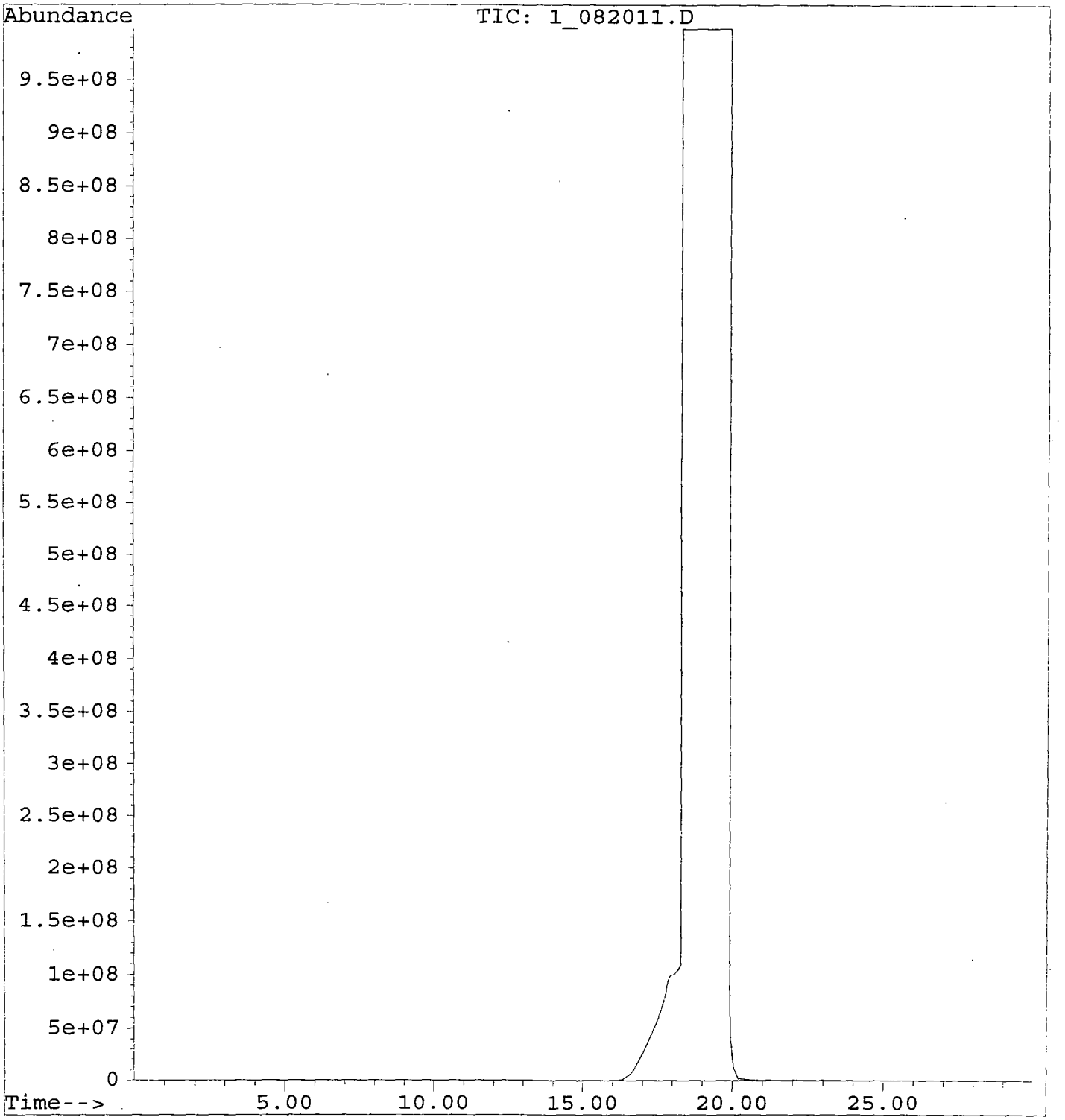
File : C:\HPCHEM\5\DATA\082001\1_082009.D
Operator : CR COL# 418002
Acquired : 20 Aug 01 16:32 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: BB0815SA-EPA
Misc Info : COL# 418002
Vial Number: 9



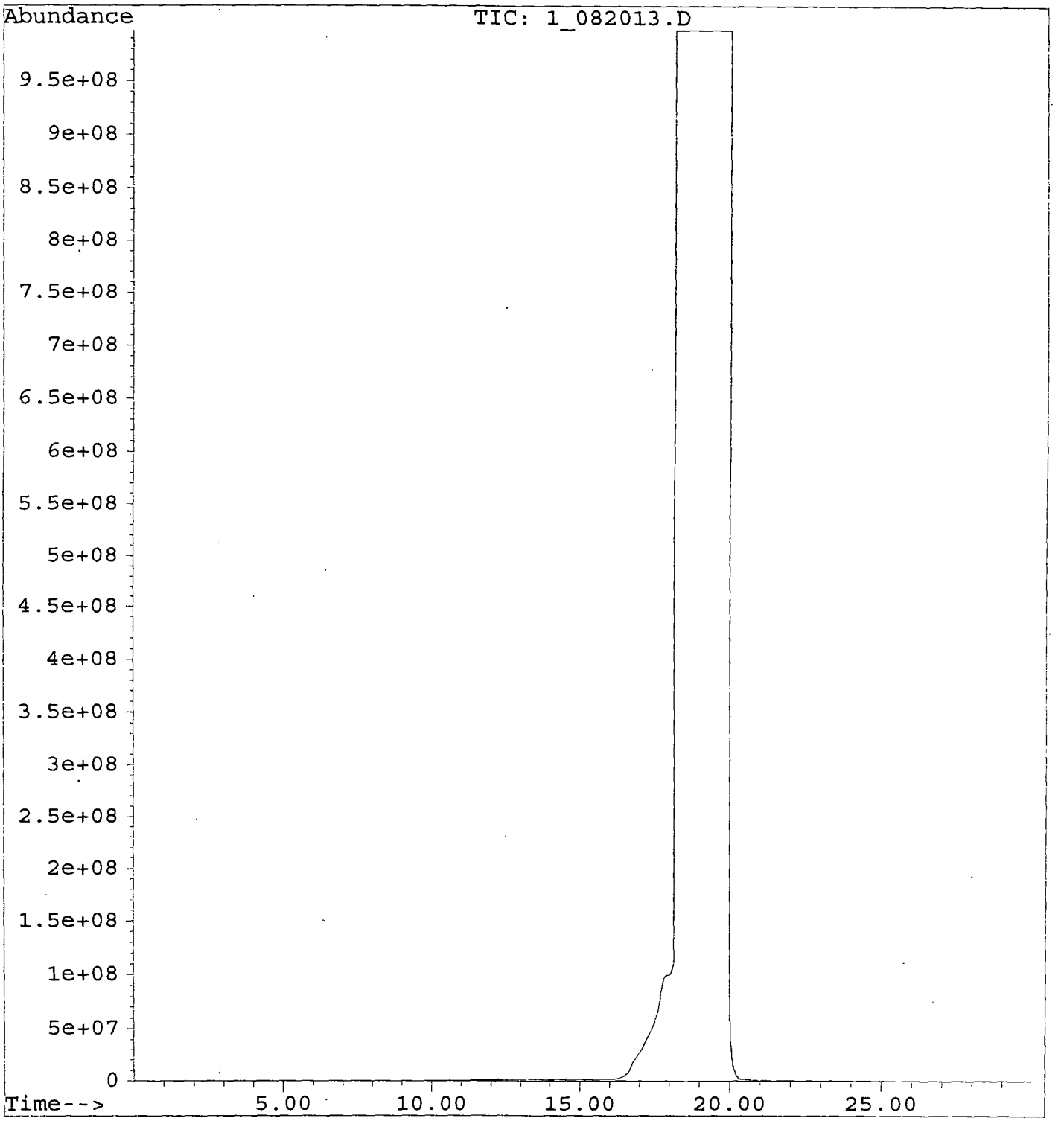
File : C:\HPCHEM\5\DATA\082001\1_082010.D
Operator : CR COL# 418002
Acquired : 20 Aug 01 17:03 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: LC0815SA-EPA
Misc Info : COL# 418002
Vial Number: 10



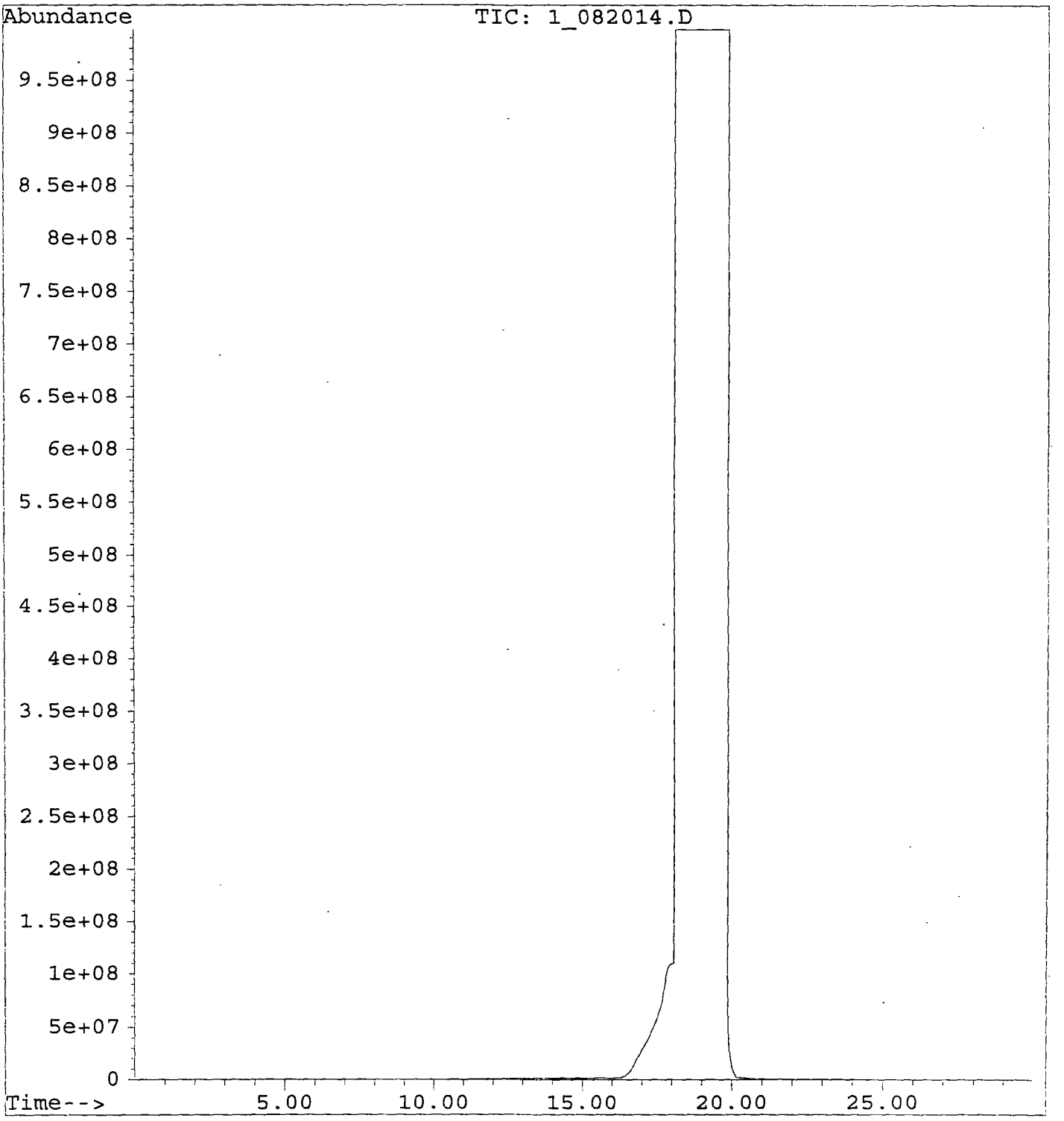
File : C:\HPCHEM\5\DATA\082001\1_082011.D
Operator : CR COL# 418002
Acquired : 20 Aug 01 17:33 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: LD0815SA-EPA
Misc Info : COL# 418002
Vial Number: 11



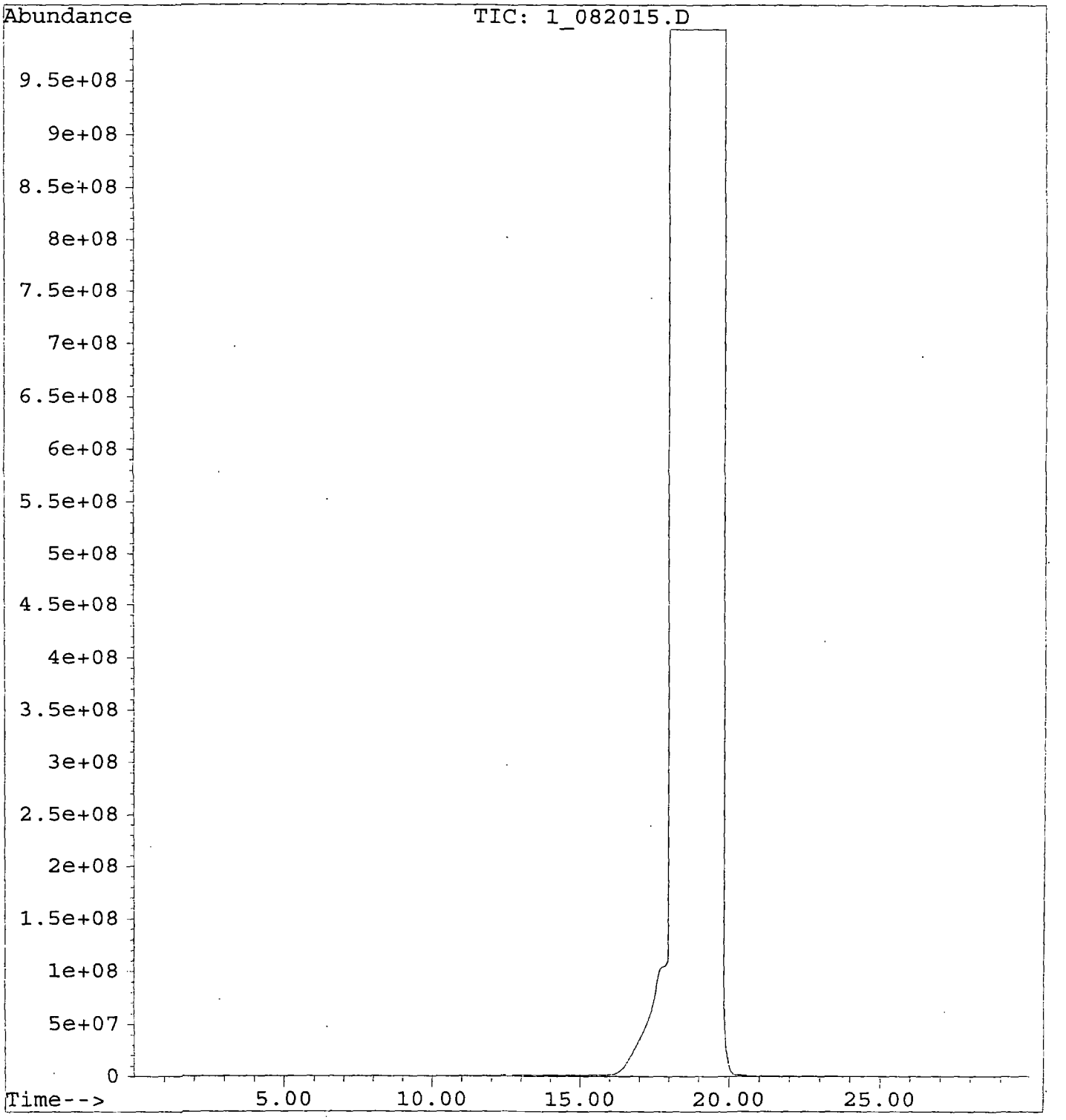
File : C:\HPCHEM\5\DATA\082001\1_082013.D
Operator : CR COL# 418002
Acquired : 20 Aug 01 18:35 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47268.06-E02G0-EPA
Misc Info : COL# 418002
Vial Number: 13



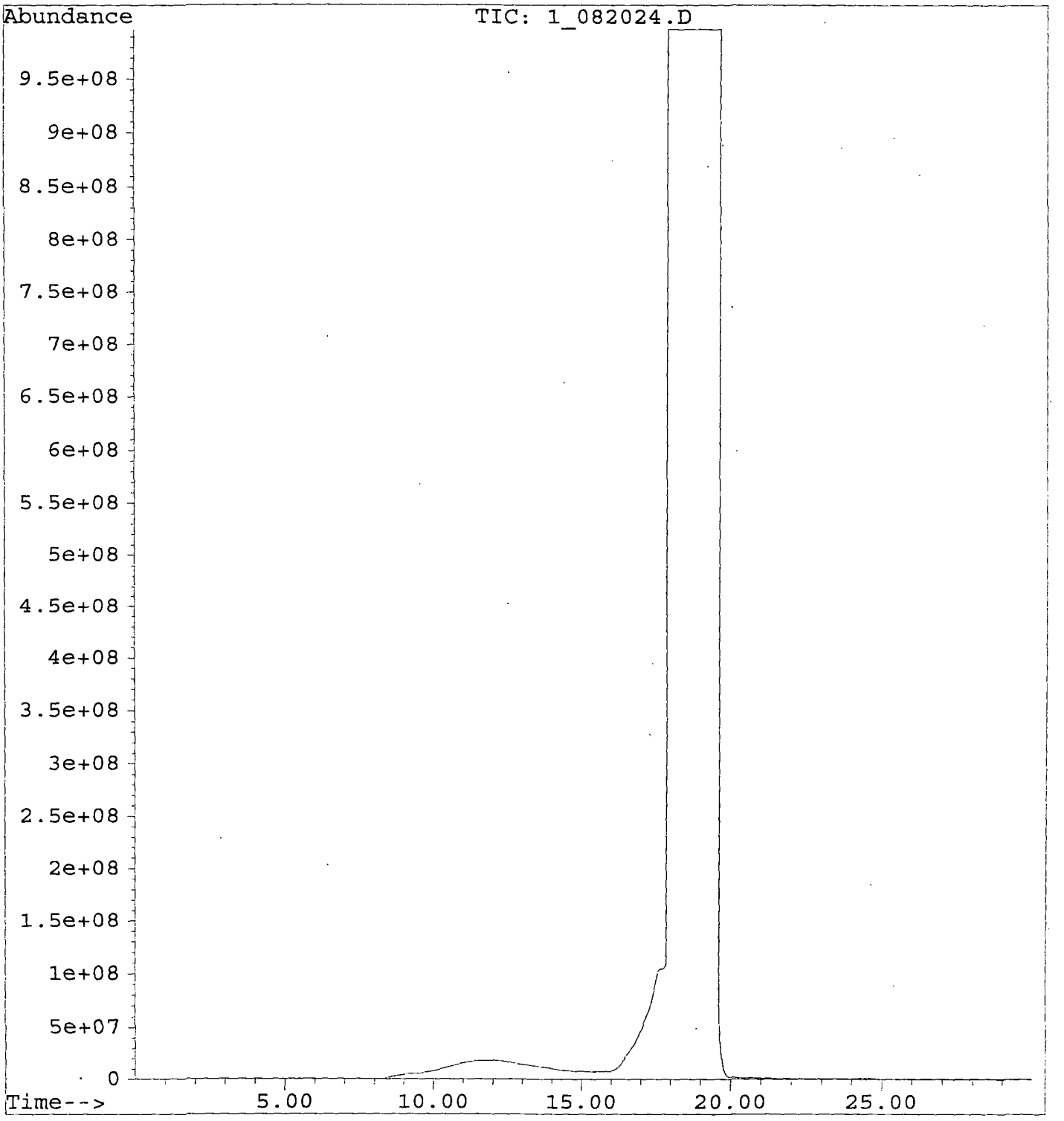
File : C:\HPCHEM\5\DATA\082001\1_082014.D
Operator : CR COL# 418002
Acquired : 20 Aug 01 19:06 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47268.07-E02G1-EPA
Misc Info : COL# 418002
Vial Number: 14



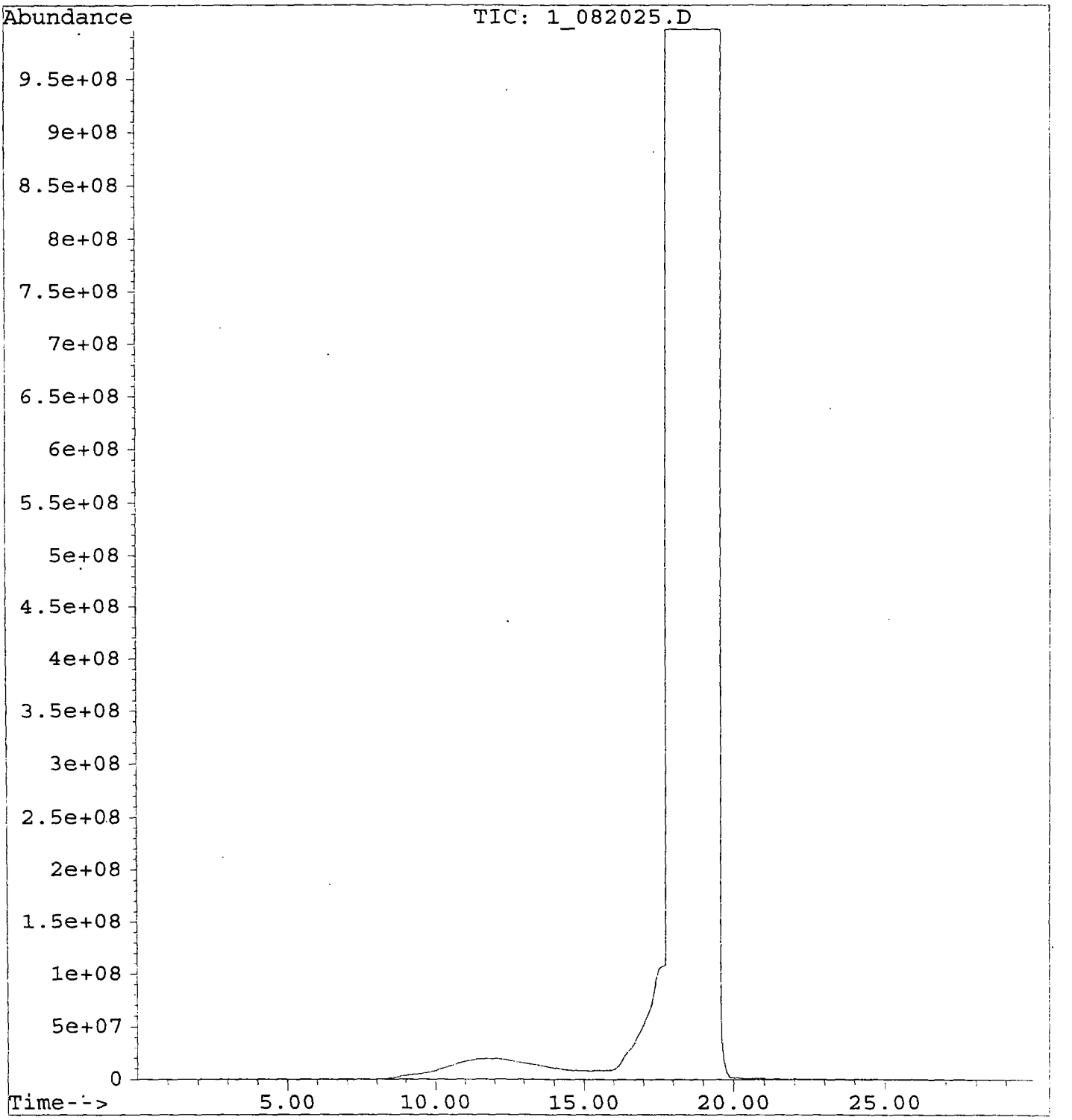
File : C:\HPCHEM\5\DATA\082001\1_082015.D
Operator : CR COL# 418002
Acquired : 20 Aug 01 19:37 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47268.08-E02G2-EPA
Misc Info : COL# 418002
Vial Number: 15



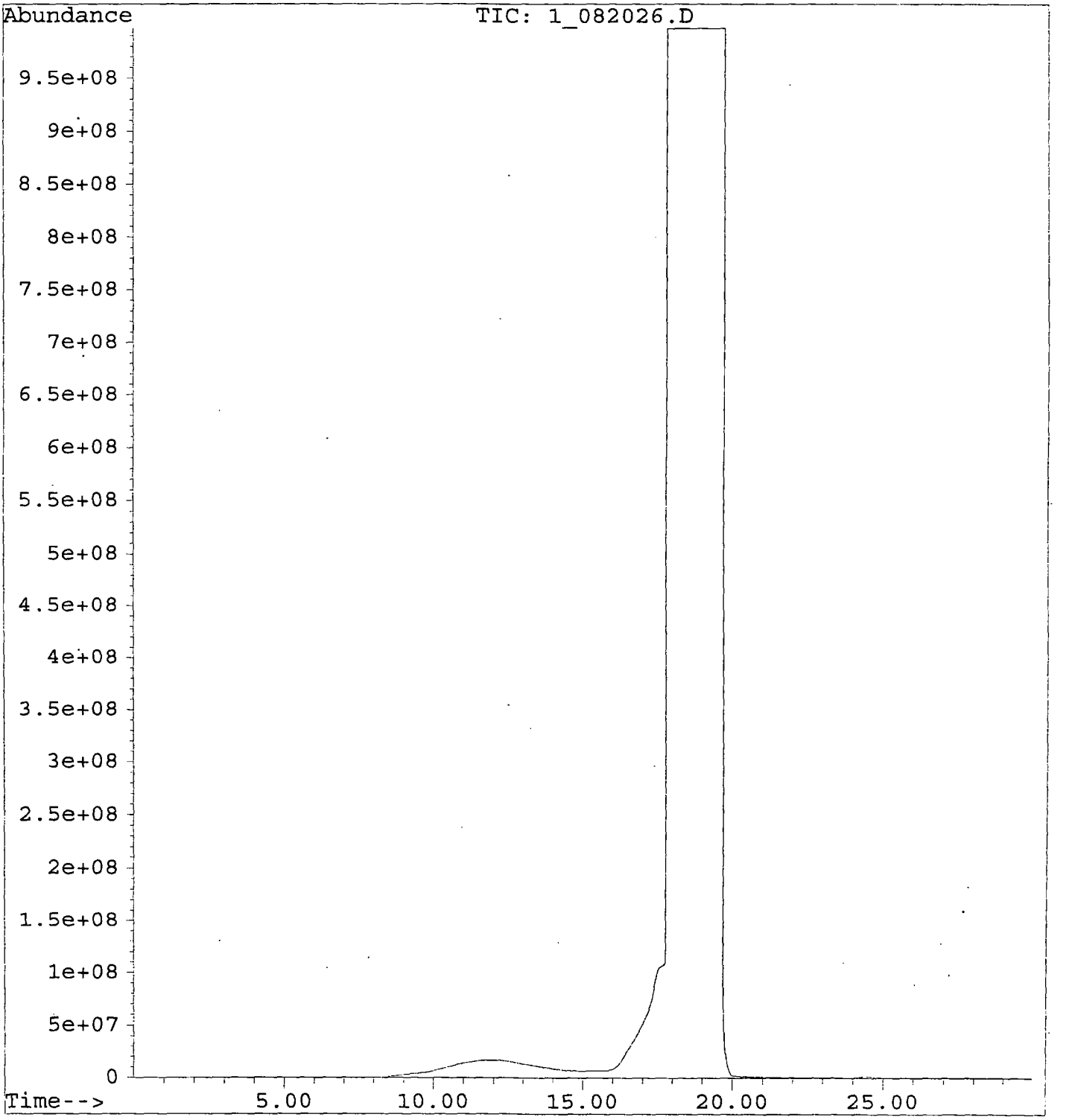
File : C:\HPCHEM\5\DATA\082001\1_082024.D
Operator : CR COL# 418002
Acquired : 21 Aug 01 00:16 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47268.02-E02F6-EPA
Misc Info : COL# 418002
Vial Number: 24



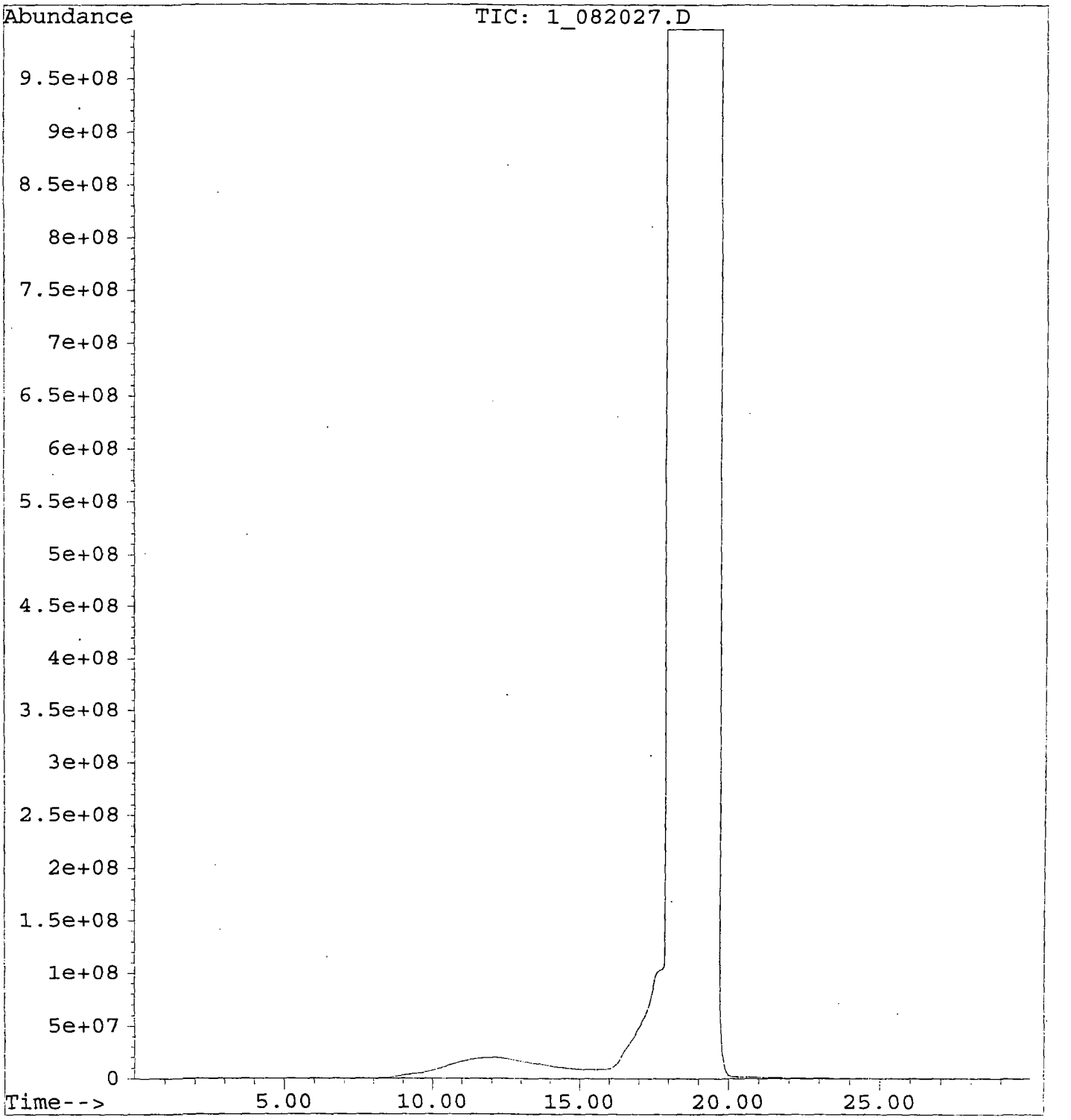
File : C:\HPCHEM\5\DATA\082001\1_082025.D
Operator : CR COL# 418002
Acquired : 21 Aug 01 00:47 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47268.03-E02F7-EPA
Misc Info : COL# 418002
Vial Number: 25



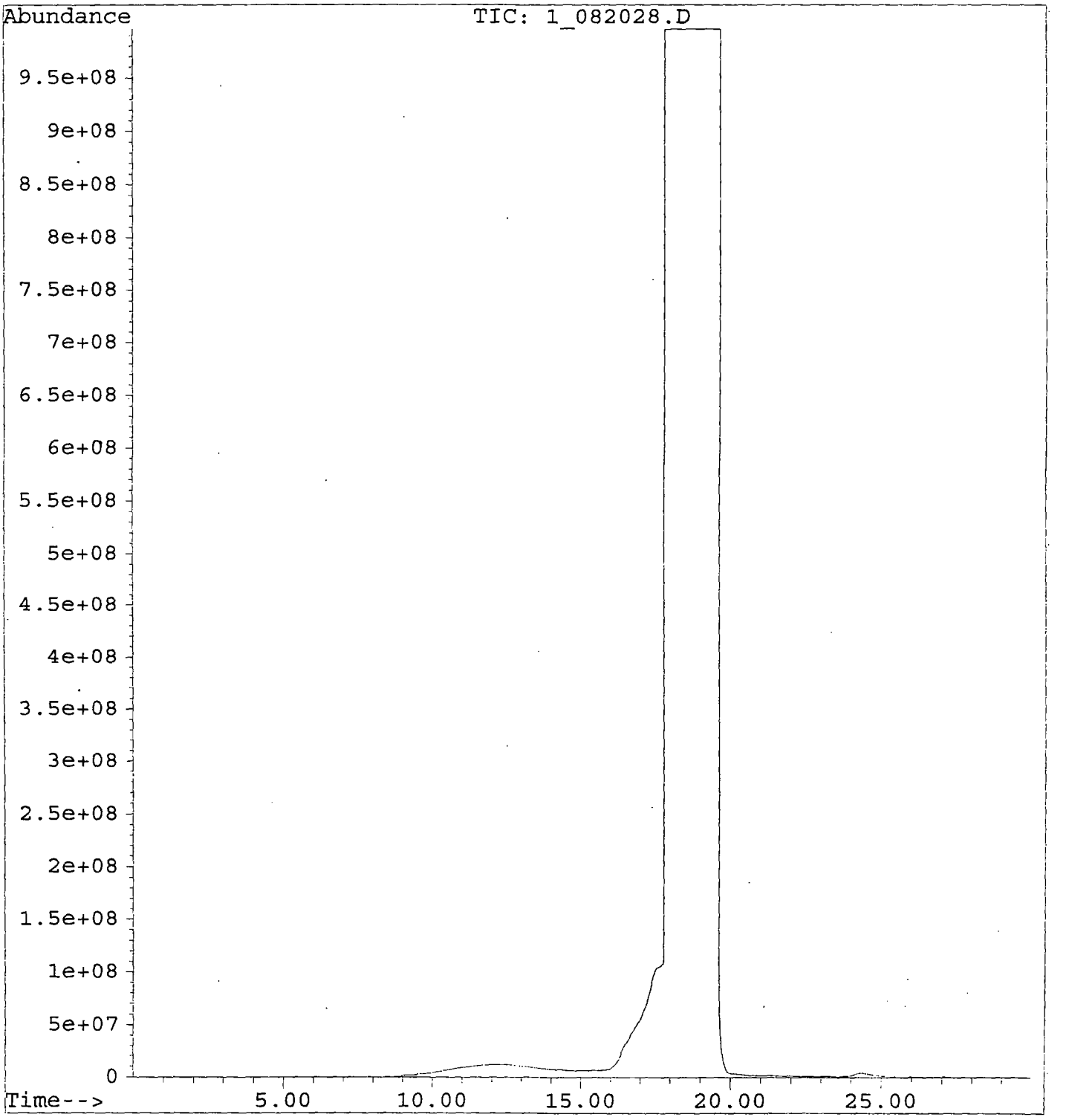
File : C:\HPCHEM\5\DATA\082001\1_082026.D
Operator : CR COL# 418002
Acquired : 21 Aug 01 01:18 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47268.04-E02F8-EPA
Misc Info : COL# 418002
Vial Number: 26



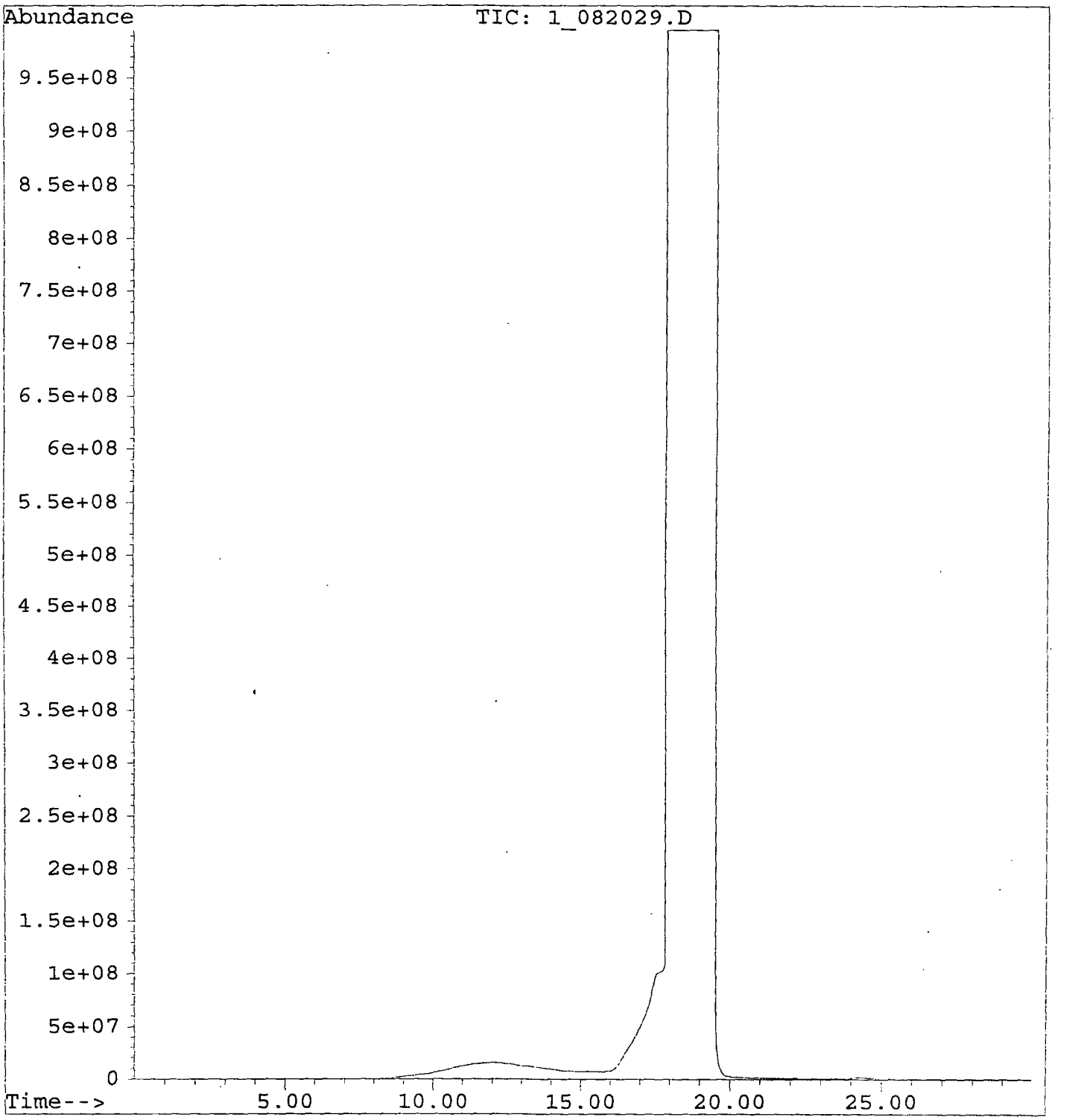
File : C:\HPCHEM\5\DATA\082001\1_082027.D
Operator : CR COL# 418002
Acquired : 21 Aug 01 01:48 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47268.05-E02F9-EPA
Misc Info : COL# 418002
Vial Number: 27



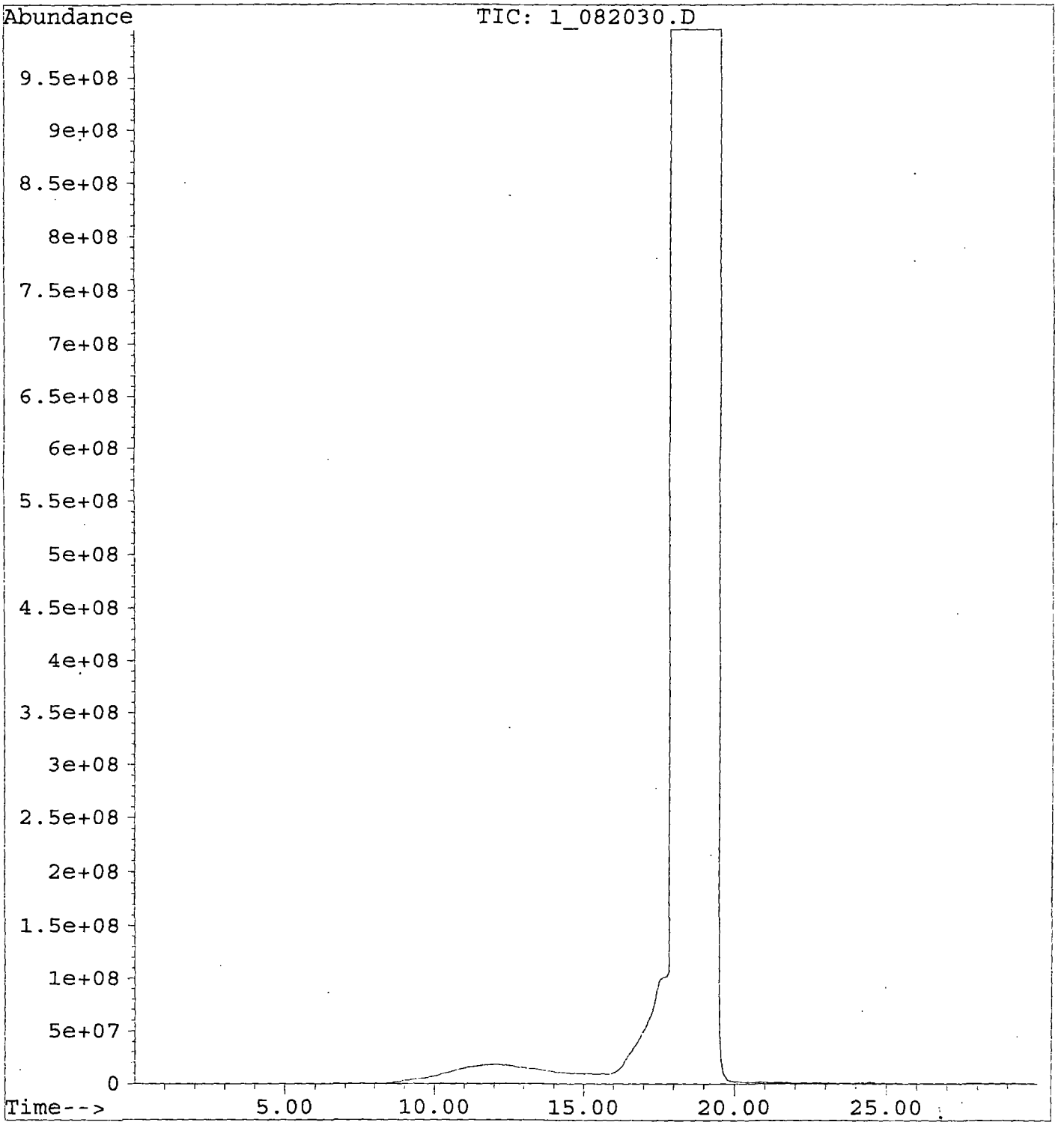
File : C:\HPCHEM\5\DATA\082001\1_082028.D
Operator : CR COL# 418002
Acquired : 21 Aug 01 02:20 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47268.09-E02G3-EPA
Misc Info : COL# 418002
Vial Number: 28



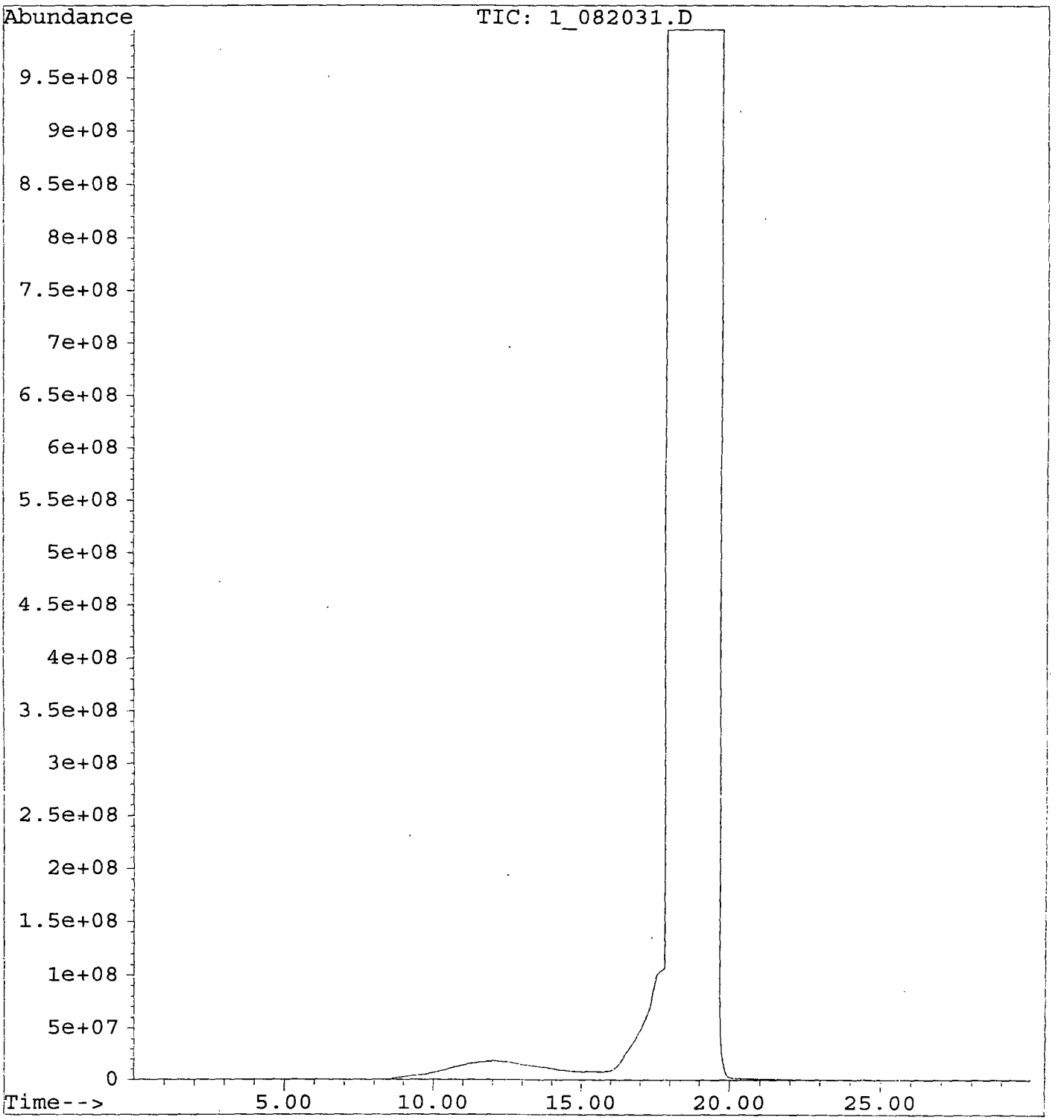
File : C:\HPCHEM\5\DATA\082001\1_082029.D
Operator : CR COL# 418002
Acquired : 21 Aug 01 02:51 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47268.10-E02G4-EPA
Misc Info : COL# 418002
Vial Number: 29



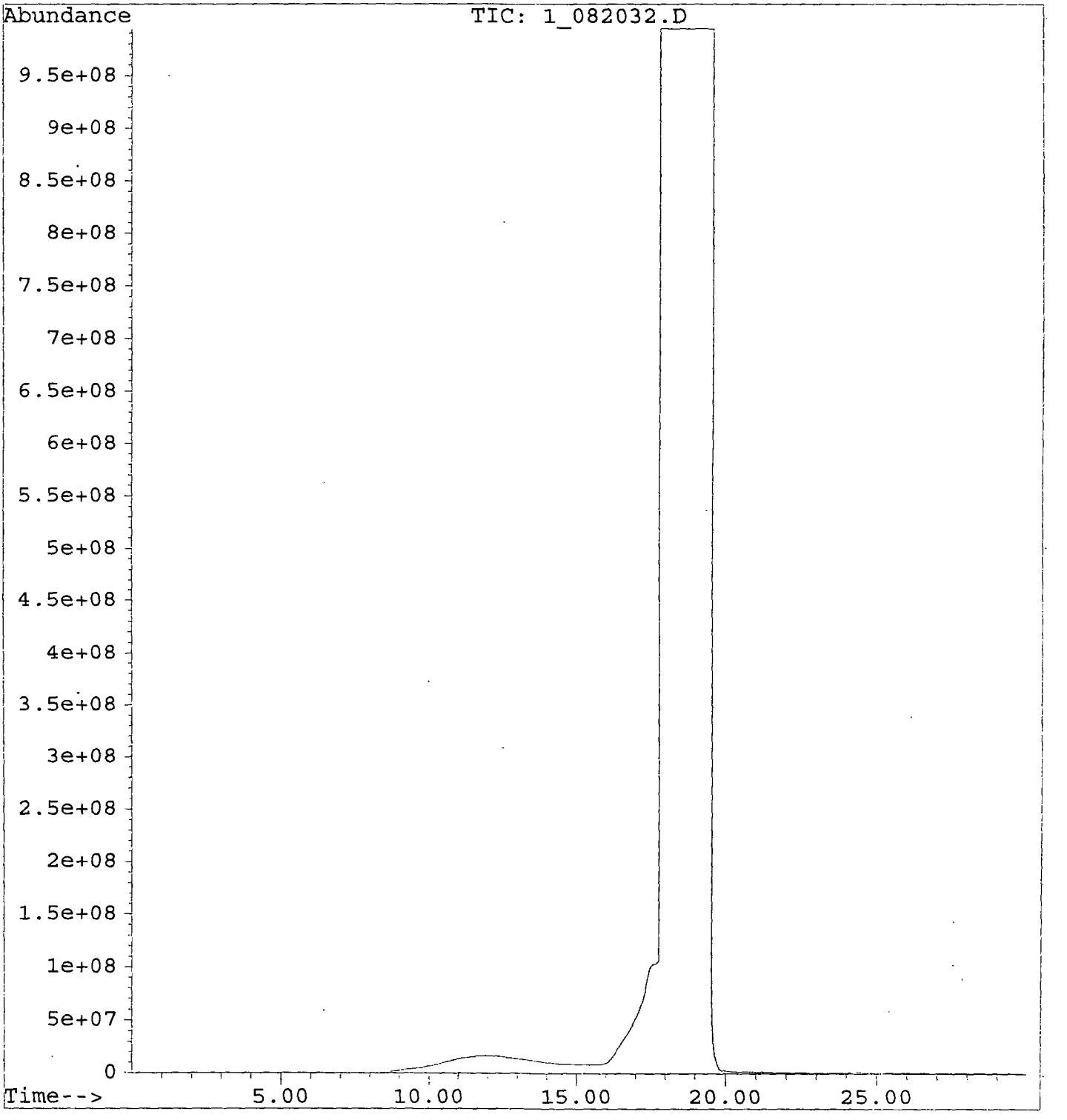
File : C:\HPCHEM\5\DATA\082001\1_082030.D
Operator : CR COL# 418002
Acquired : 21 Aug 01 03:22 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47268.11-E02G5-EPA
Misc Info : COL# 418002
Vial Number: 30



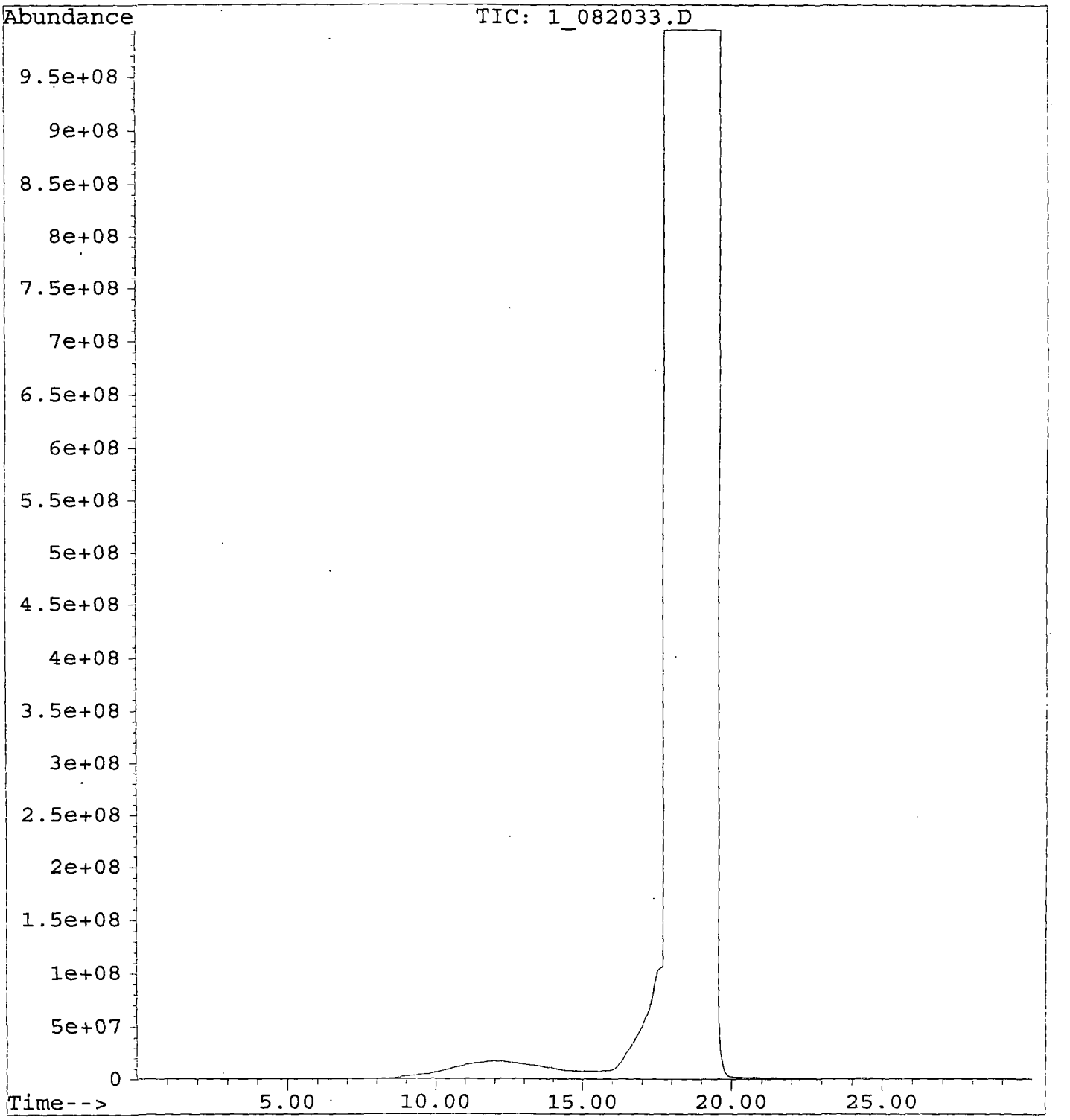
File : C:\HPCHEM\5\DATA\082001\1_082031.D
Operator : CR COL# 418002
Acquired : 21 Aug 01 03:52 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47268.12-E02G6-EPA
Misc Info : COL# 418002
Vial Number: 31



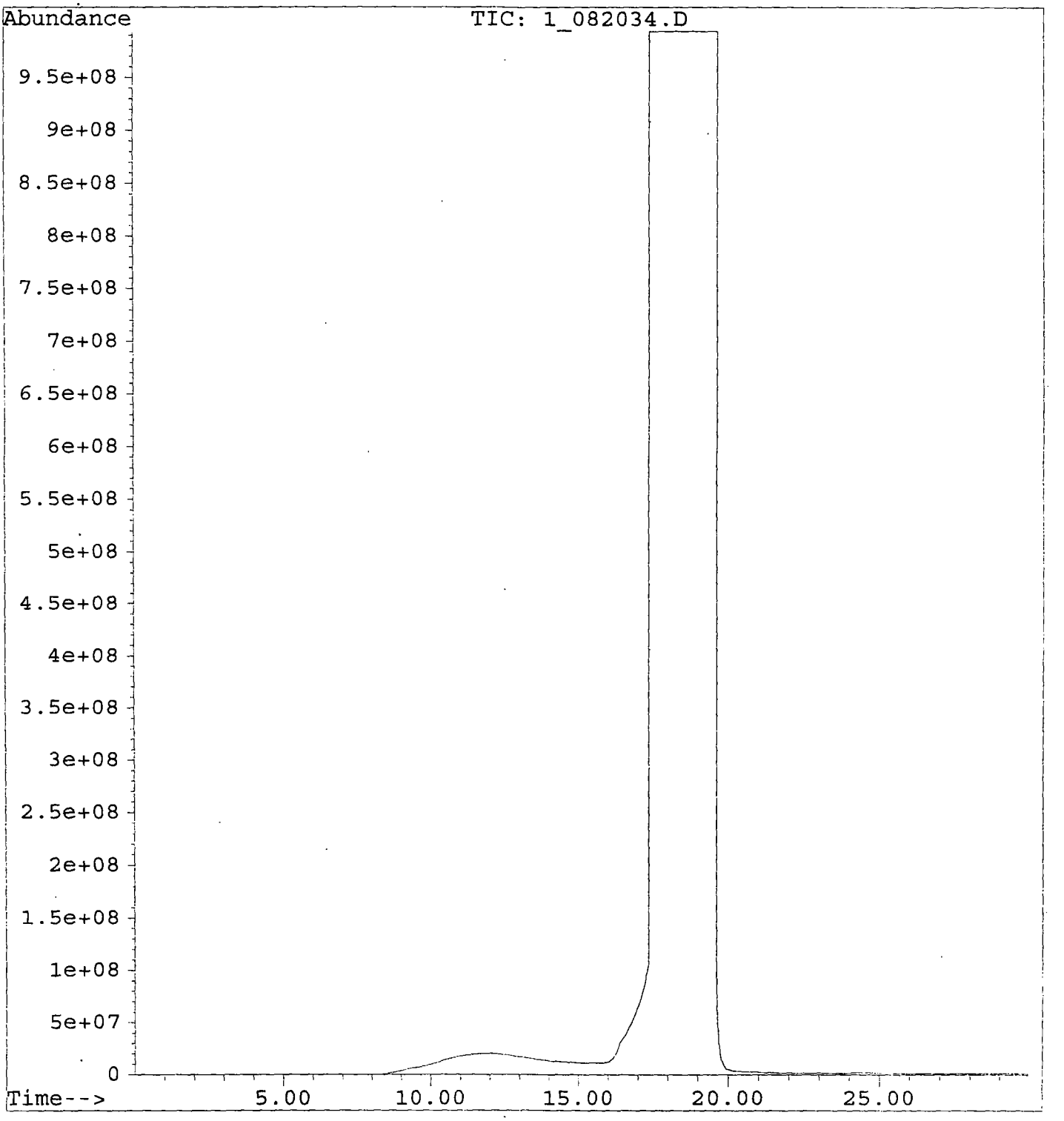
File : C:\HPCHEM\5\DATA\082001\1_082032.D
Operator : CR COL# 418002
Acquired : 21 Aug 01 04:24 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47268.13-E02G6MS-EPA
Misc Info : COL# 418002
Vial Number: 32



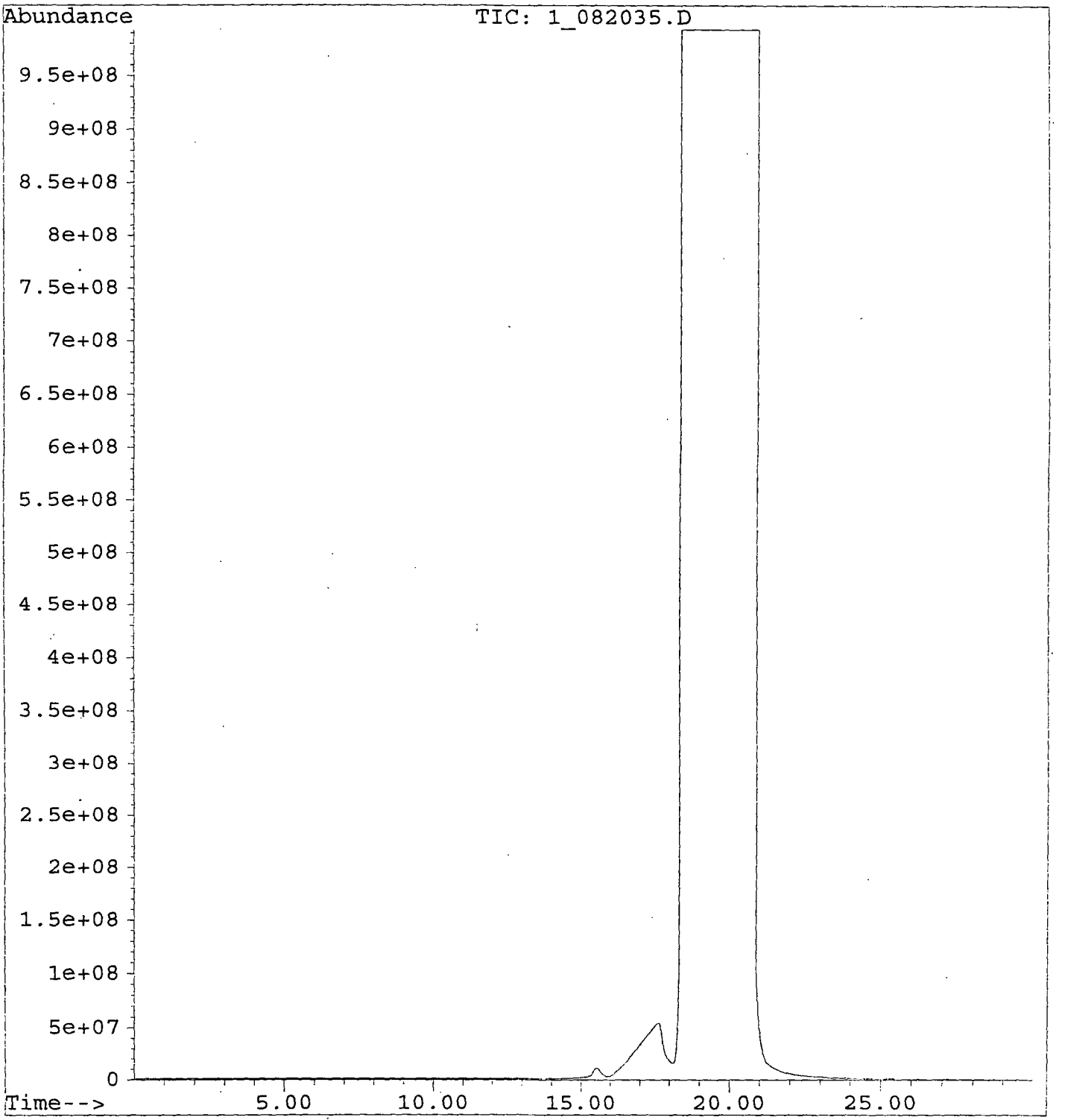
File : C:\HPCHEM\5\DATA\082001\1_082033.D
Operator : CR COL# 418002
Acquired : 21 Aug 01 04:55 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47268.14-E02G6MSD-EPA
Misc Info : COL# 418002
Vial Number: 33



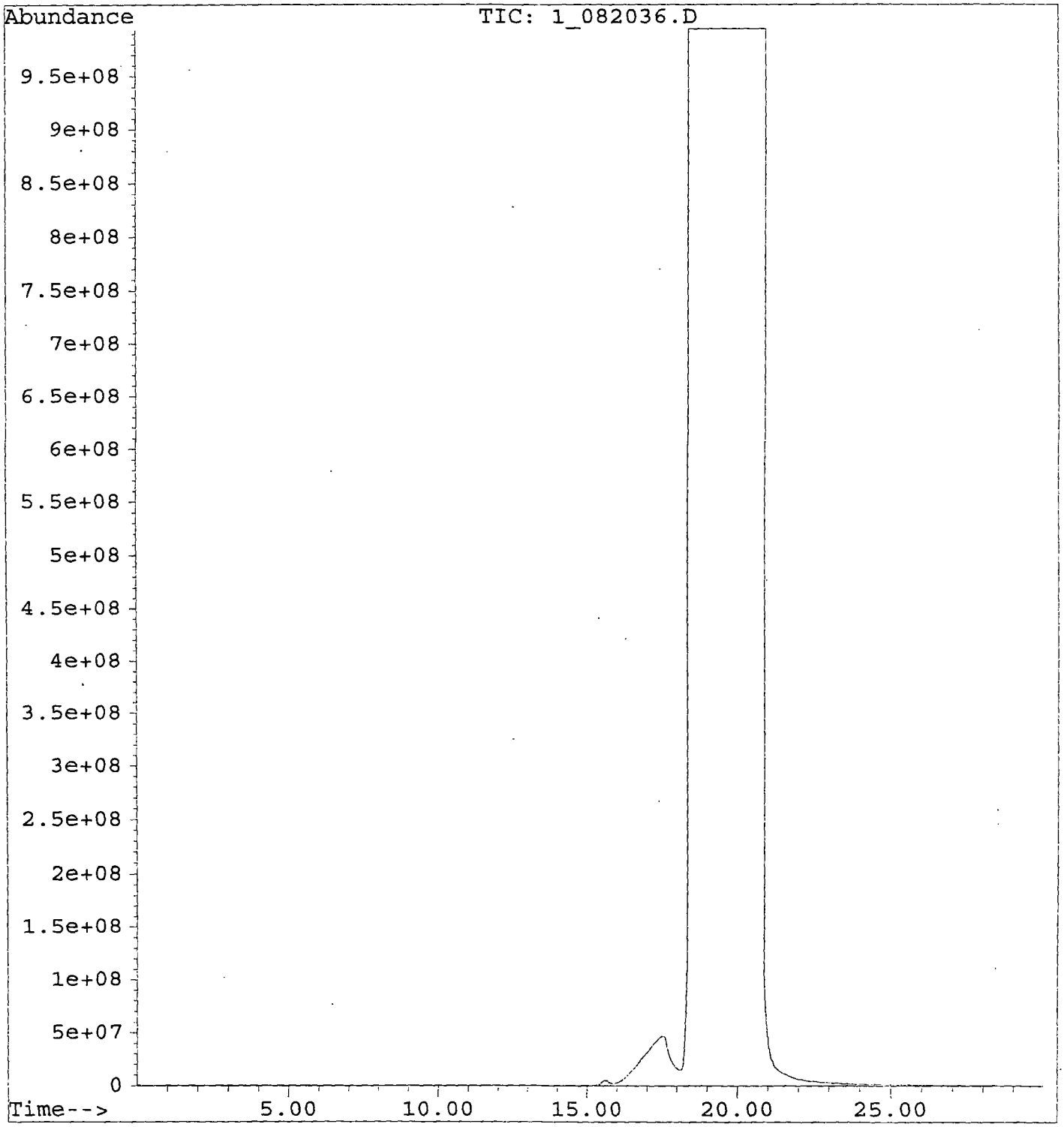
File : C:\HPCHEM\5\DATA\082001\1_082034.D
Operator : CR COL# 418002
Acquired : 21 Aug 01 05:26 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47268.01-E02F5-EPA
Misc Info : COL# 418002
Vial Number: 34



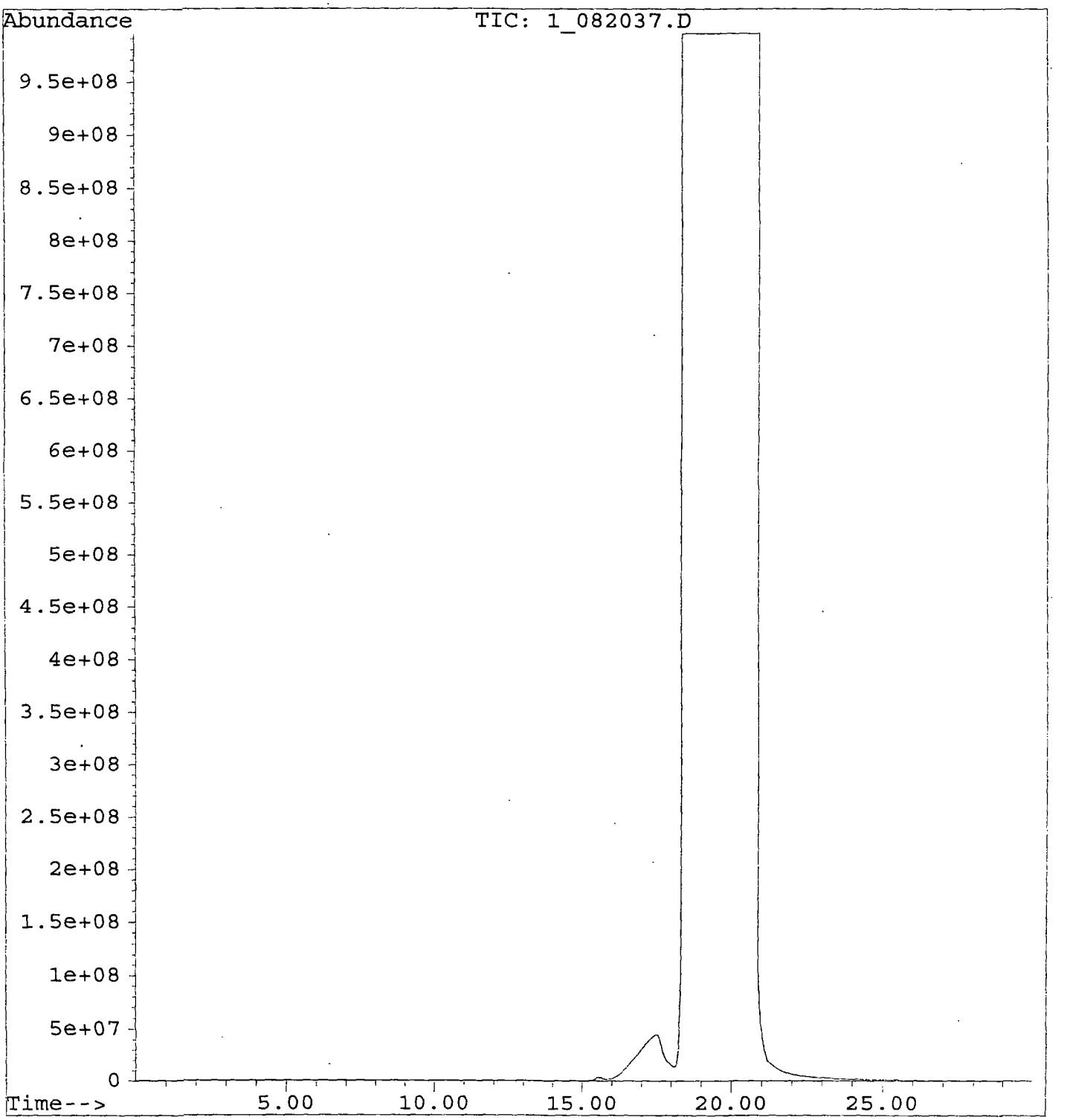
File : C:\HPCHEM\5\DATA\082001\1_082035.D
Operator : CR COL# 418002
Acquired : 21 Aug 01 05:57 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 35



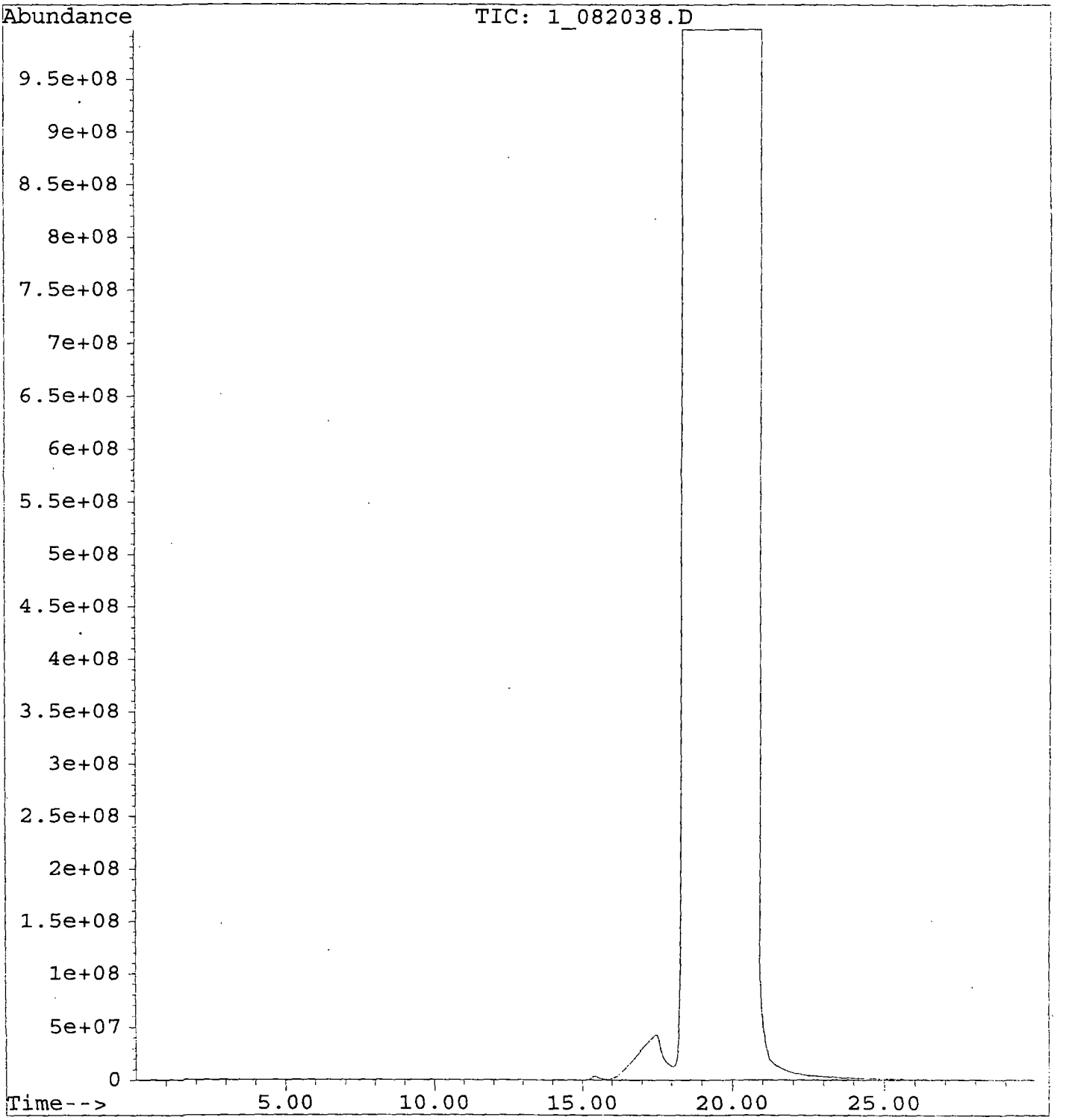
File : C:\HPCHEM\5\DATA\082001\1_082036.D
Operator : CR COL# 418002
Acquired : 21 Aug 01 06:28 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 36



File : C:\HPCHEM\5\DATA\082001\1_082037.D
Operator : CR COL# 418002
Acquired : 21 Aug 01 06:59 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 37

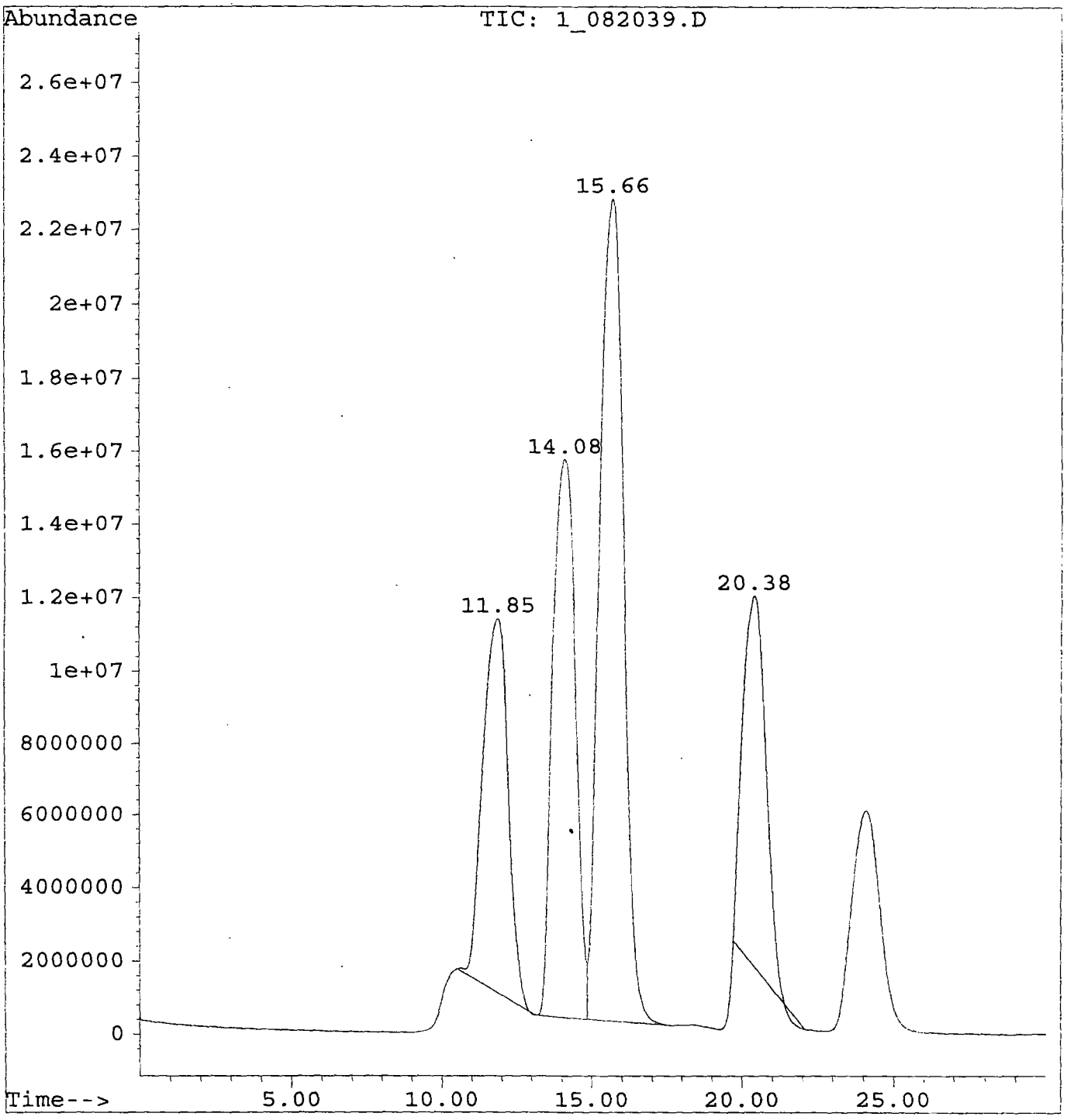


File : C:\HPCHEM\5\DATA\082001\1_082038.D
Operator : CR COL# 418002
Acquired : 21 Aug 01 07:30 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 38



Data File : C:\HPCHEM\5\DATA\082001\1_082039.D
Acq On : 21 Aug 01 08:01 AM
Sample : CAL STD (FINAL)
Misc : COL# 418002

Vial: 39
Operator: CR COL#
Inst : GPC1
Multiplr: 1.00



1) 11.85 = Corn Oil

4) 14.08 = Pthalate
5) 15.66 = Methoxychlor

Chromatographic Resolution Report

Data File : C:\HPCHEM\5\DATA\082001\1_082039.D
Acq On : 21 Aug 01 08:01
Sample : CAL STD (FINAL)
Misc : COL# 418002

Vial: 39
Operator: CR COL# 41
Inst : GPC1
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
11.854	14.083	100.00
14.083	15.660	90.31
15.660	20.376	100.00

Gel Permeation Chromatography (GPC) Run Log - GPC1

SWOK/AATS SWL-OE-102-16 Rev.#: 2.1 Fraction Collected: 45 mLs

Col. ID.: 418002 Protocol: GC699 Fraction: PEST Cycle: 15-9

Cal. Std. Page: Client: EPA Case# 29602

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
08/20/01 12:23	1	CAL STD (INITIAL)	1_082001	
08/20/01 12:54	2	SB	1_082002	
08/20/01 13:25	3	SB	1_082003	
08/20/01 13:56	4	SB	1_082004	
08/20/01 14:28	5	SB	1_082005	
08/20/01 14:59	6	SB#082001A (PEST)	1_082006	
08/20/01 15:30	7	SB#082001B (PEST)	1_082007	
08/20/01 16:01	8	BL0815SA-EPA	1_082008	
08/20/01 16:32	9	BB0815SA-EPA	1_082009	
08/20/01 17:03	10	LC0815SA-EPA	1_082010	
08/20/01 17:33	11	LD0815SA-EPA	1_082011	
08/20/01 18:05	12	47266.17-E02D0MS-EPA	1_082012	
08/20/01 18:35	13	47268.06-E02G0-EPA	1_082013	
08/20/01 19:06	14	47268.07-E02G1-EPA	1_082014	
08/20/01 19:37	15	47268.08-E02G2-EPA	1_082015	
08/20/01 20:08	16	47279.01-E02G7-EPA	1_082016	
08/20/01 20:39	17	47279.02-E02G8-EPA	1_082017	
08/20/01 21:10	18	47279.08-E02H4-EPA	1_082018	
08/20/01 21:41	19	47279.03-E02G9-EPA	1_082019	
08/20/01 22:12	20	47279.04-E02H0-EPA	1_082020	
08/20/01 22:43	21	47279.05-E02H1-EPA	1_082021	

8/20/01 Verification Signature/Date

8/21/01 Analyst Signature/Date

Book: OE-102-16-RUN-19 Page No.: 102

Gel Permeation Chromatography (GPC) Run Log - GPC1

SWOK/AATS SWL-OE-102-16 Rev.#: 2.1 Fraction Collected: 45 mLs

Col. ID.: 418002 Protocol: GC699 Fraction: PEST Cycle: 15-9

Cal. Std. Page: Client: EPA Case# 29602

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
08/20/01 23:14	22	47279.06-E02H2-EPA	1_082022	
08/20/01 23:45	23	47279.07-E02H3-EPA	1_082023	
08/21/01 00:16	24	47268.02-E02F6-EPA	1_082024	
08/21/01 00:47	25	47268.03-E02F7-EPA	1_082025	
08/21/01 01:18	26	47268.04-E02F8-EPA	1_082026	
08/21/01 01:48	27	47268.05-E02F9-EPA	1_082027	
08/21/01 02:20	28	47268.09-E02G3-EPA	1_082028	
08/21/01 02:51	29	47268.10-E02G4-EPA	1_082029	
08/21/01 03:22	30	47268.11-E02G5-EPA	1_082030	
08/21/01 03:52	31	47268.12-E02G6-EPA	1_082031	
08/21/01 04:24	32	47268.13-E02G6MS-EPA	1_082032	
08/21/01 04:55	33	47268.14-E02G6MSD-EPA	1_082033	
08/21/01 05:26	34	47268.01-E02F5-EPA	1_082034	
08/21/01 05:57	35	SB	1_082035	
08/21/01 06:28	36	SB	1_082036	
08/21/01 06:59	37	SB	1_082037	
08/21/01 07:30	38	SB	1_082038	
08/21/01 08:01	39	CAL STD (FINAL)	1_082039	

Compound	Initial RT	Final RT	% Difference
Phthalate	14.14	14.08	0.42
Methoxychlor	15.73	15.66	0.44
Perylene	20.46	20.38	0.39

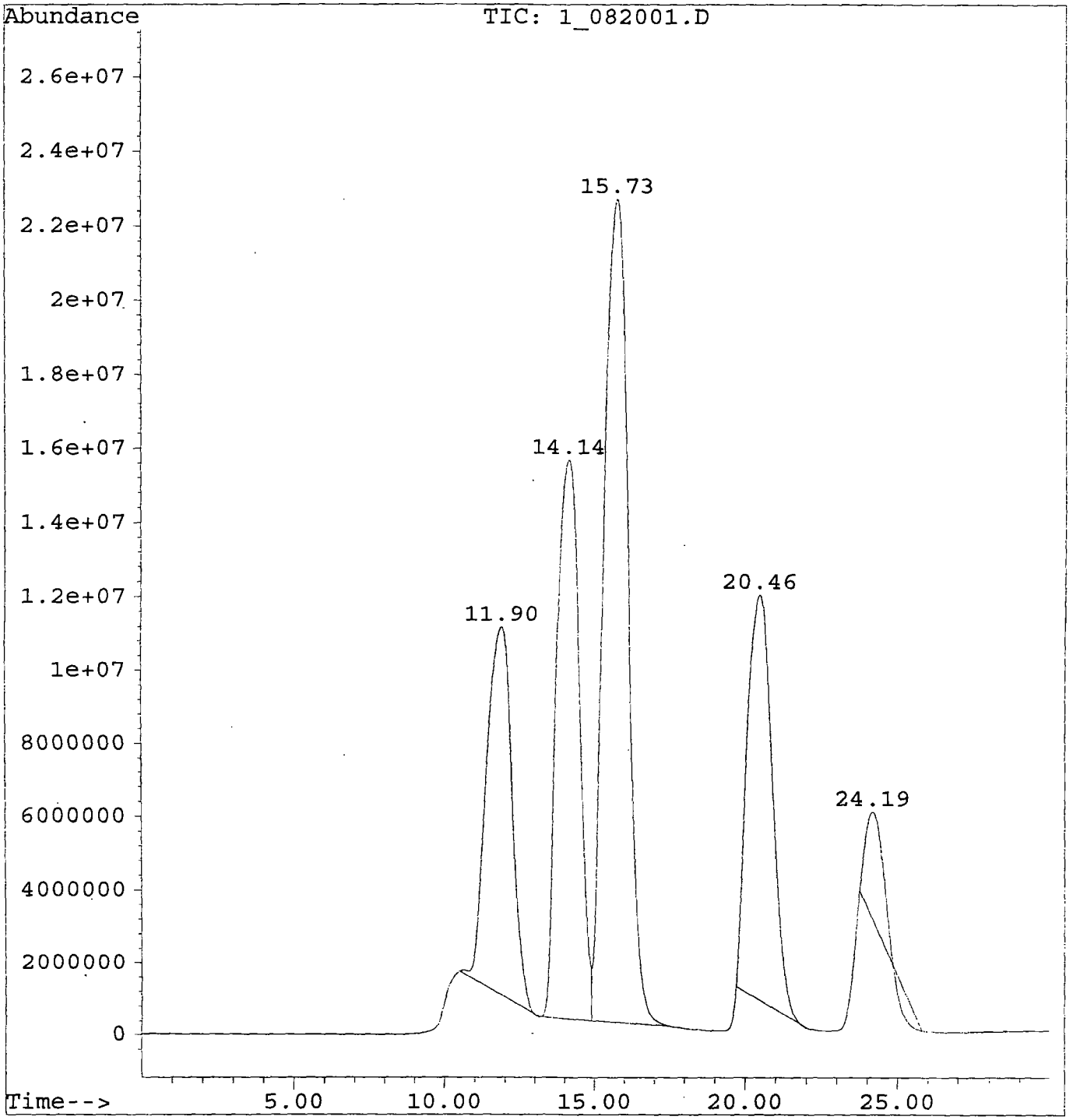
8/21/01 Verification Signature/Date

8/21/01 Analyst Signature/Date

Book: OE-102-16-RUN-19 Page No.: 103

Data File : C:\HPCHEM\5\DATA\082001\1_082001.D
Acq On : 20 Aug 01 12:23
Sample : CAL STD (INITIAL)
Misc : COL# 418002

Vial: 1
Operator: CR COL#
Inst : GPC1
Multiplr: 1.00



1) 11.90 = Corn Oil

3) 14.14 = Pthalate
4) 15.73 = Methoxychlor
5) 20.46 = Perylene

Chromatographic Resolution Report

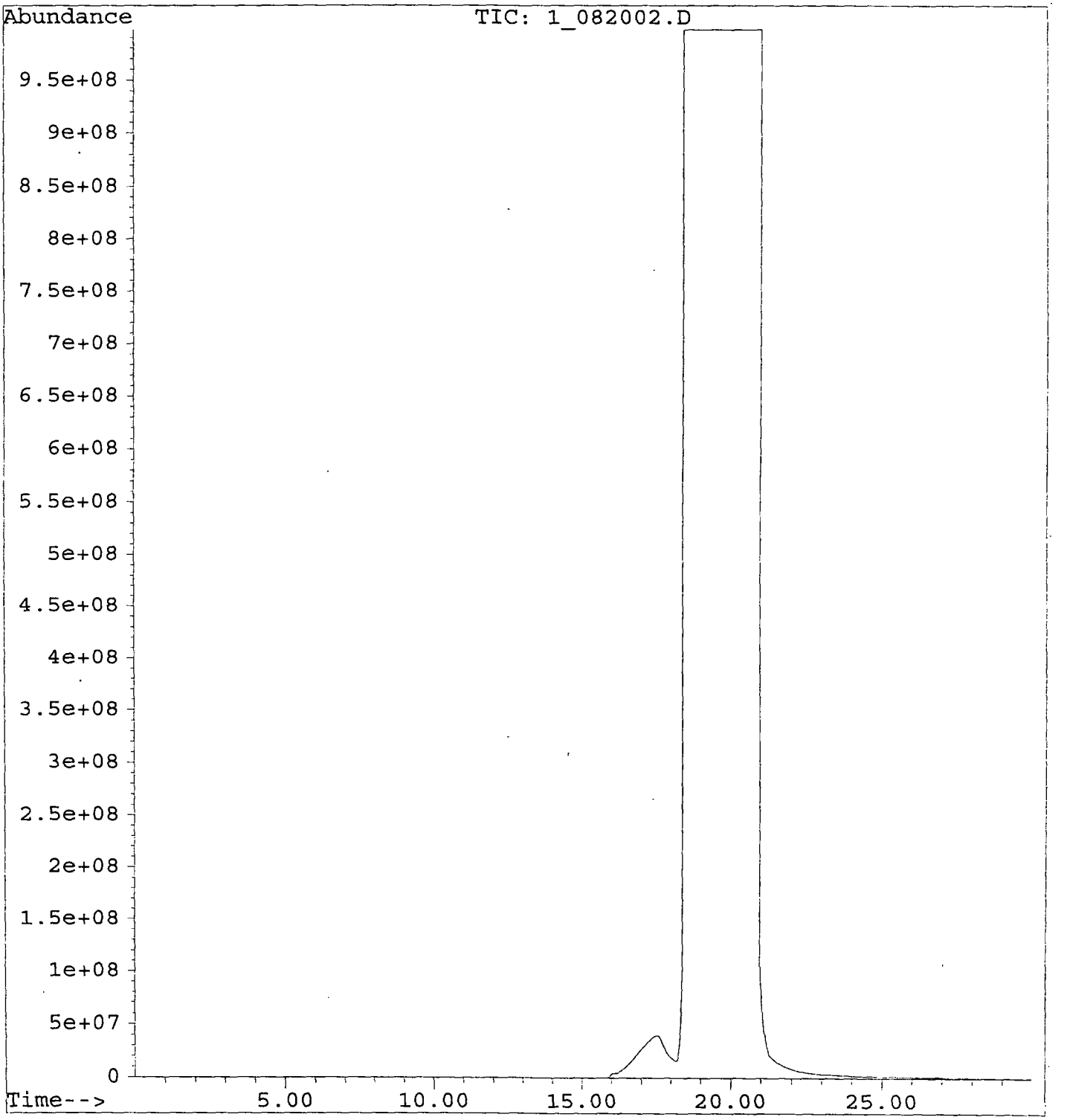
Data File : C:\HPCHEM\5\DATA\082001\1_082001.D
Acq On : 20 Aug 01 12:23
Sample : CAL STD (INITIAL)
Misc : COL# 418002

Vial: 1
Operator: CR COL# 41
Inst : GPC1
Multiplr: 1.00

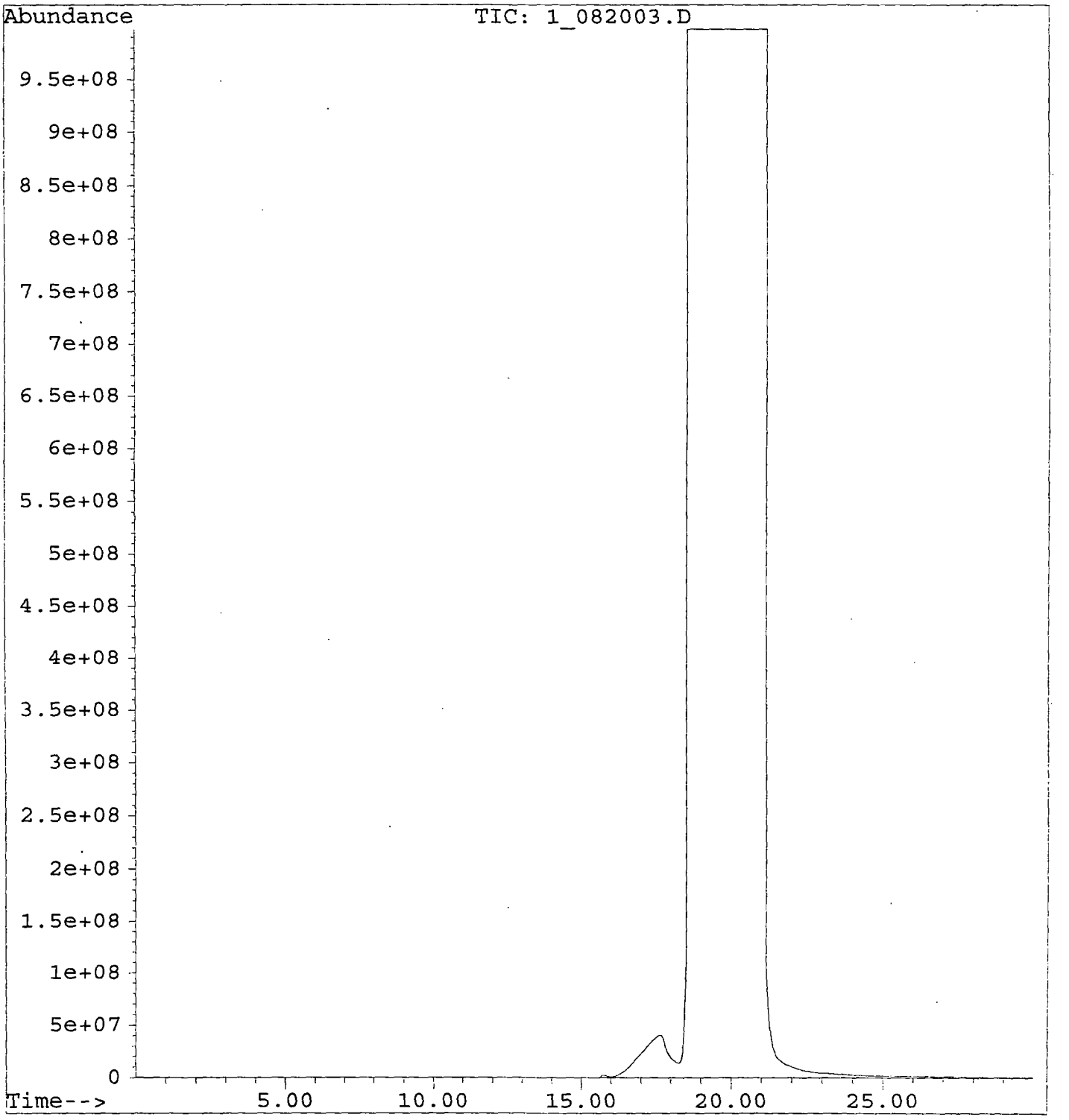
Method : C:\HPCHEM\5\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
11.900	14.138	100.00
14.138	15.729	90.85
15.729	20.461	100.00
20.461	24.187	100.00

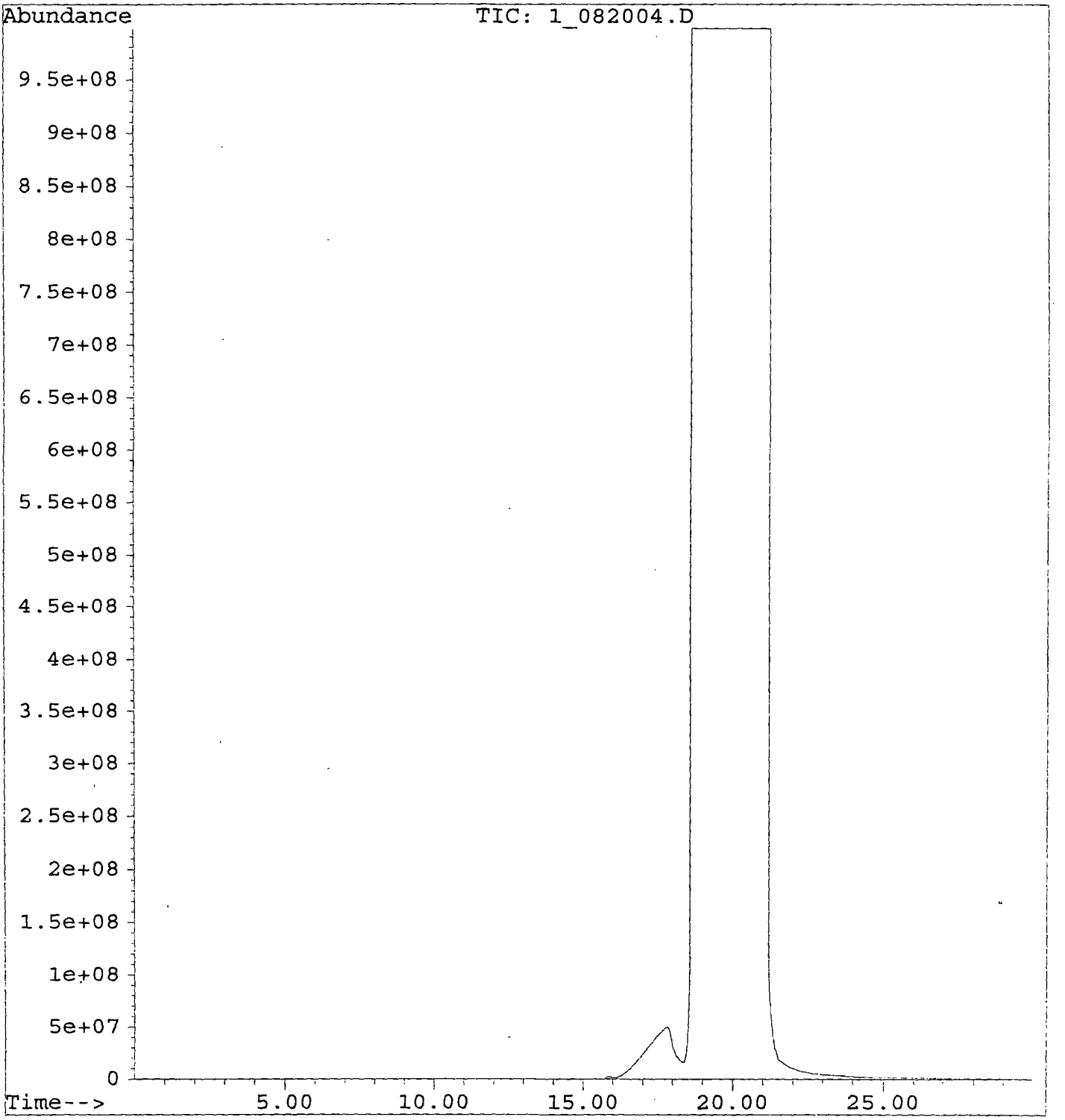
File : C:\HPCHEM\5\DATA\082001\1_082002.D
Operator : CR COL# 418002
Acquired : 20 Aug 01 12:54 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 2



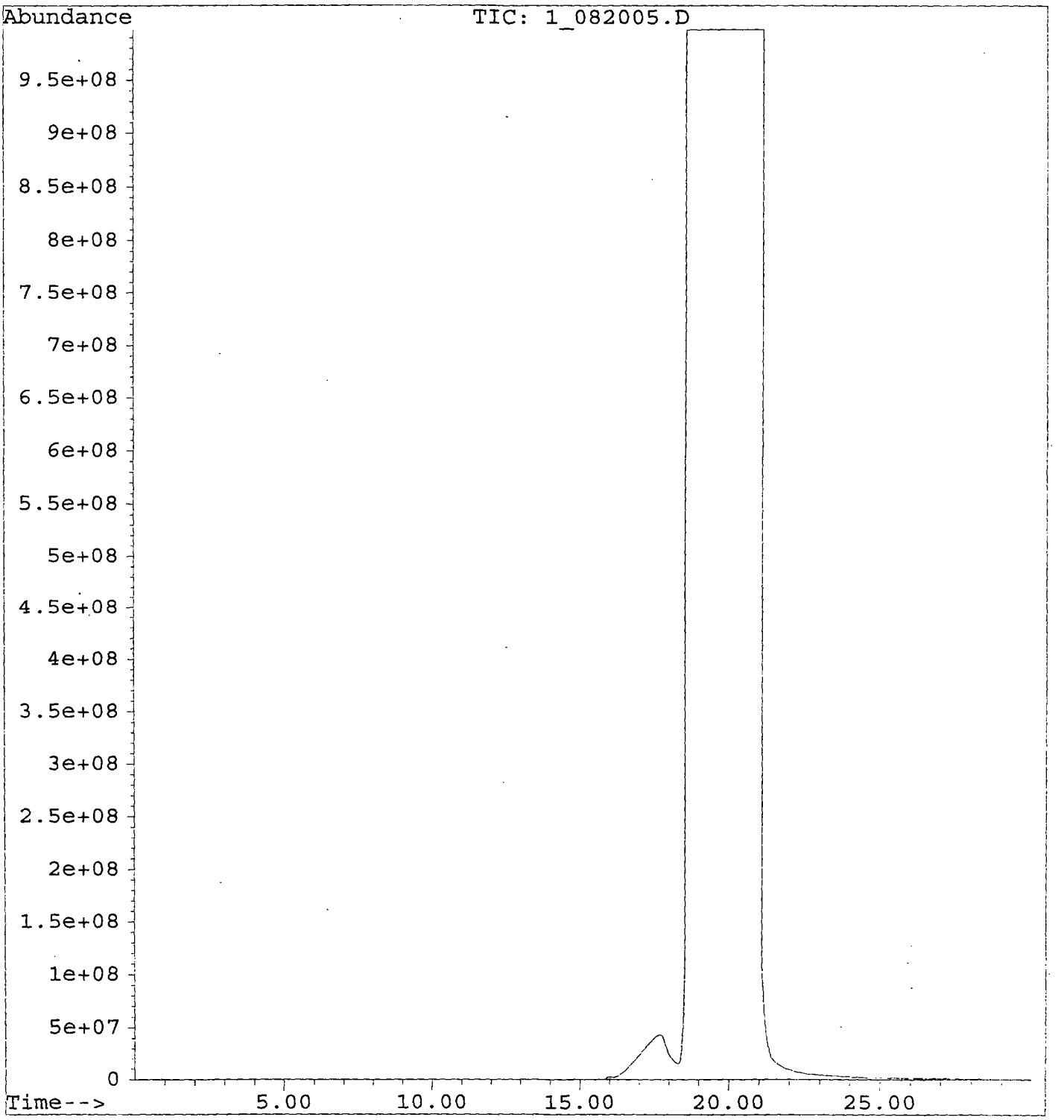
File : C:\HPCHEM\5\DATA\082001\1_082003.D
Operator : CR COL# 418002
Acquired : 20 Aug 01 13:25 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 3



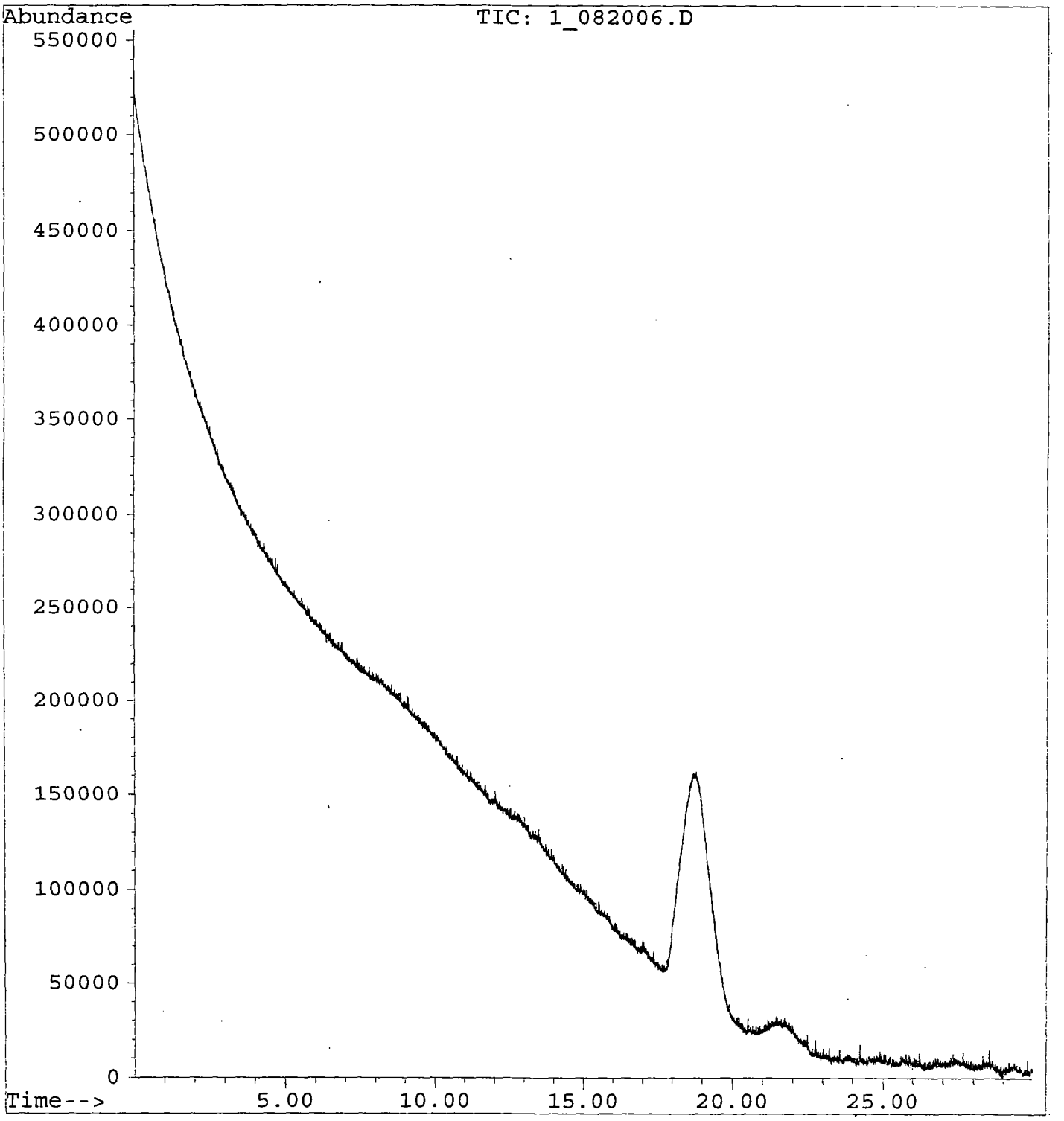
File : C:\HPCHEM\5\DATA\082001\1_082004.D
Operator : CR COL# 418002
Acquired : 20 Aug 01 13:56 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 4



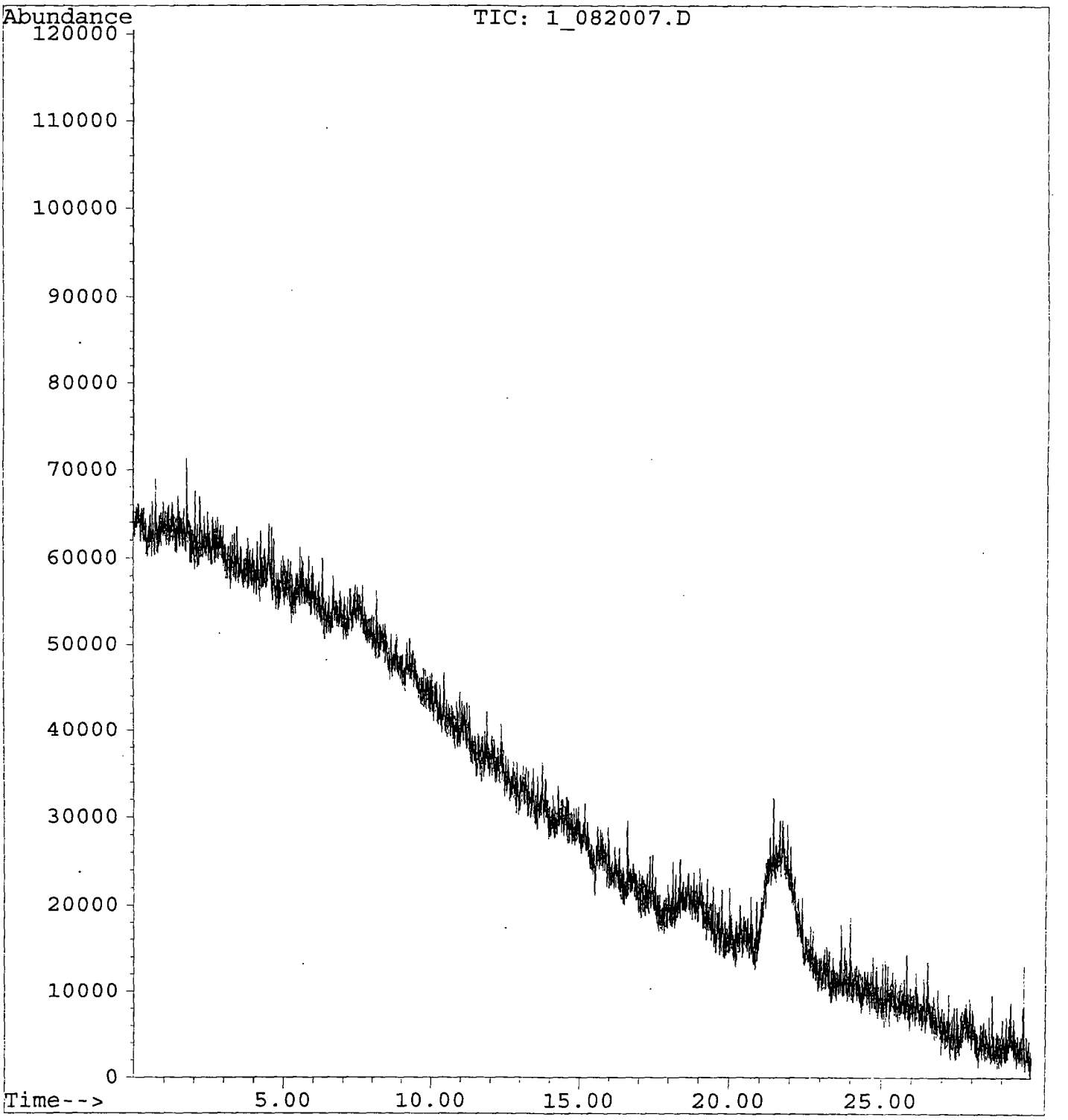
File : C:\HPCHEM\5\DATA\082001\1_082005.D
Operator : CR COL# 418002
Acquired : 20 Aug 01 14:28 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 5



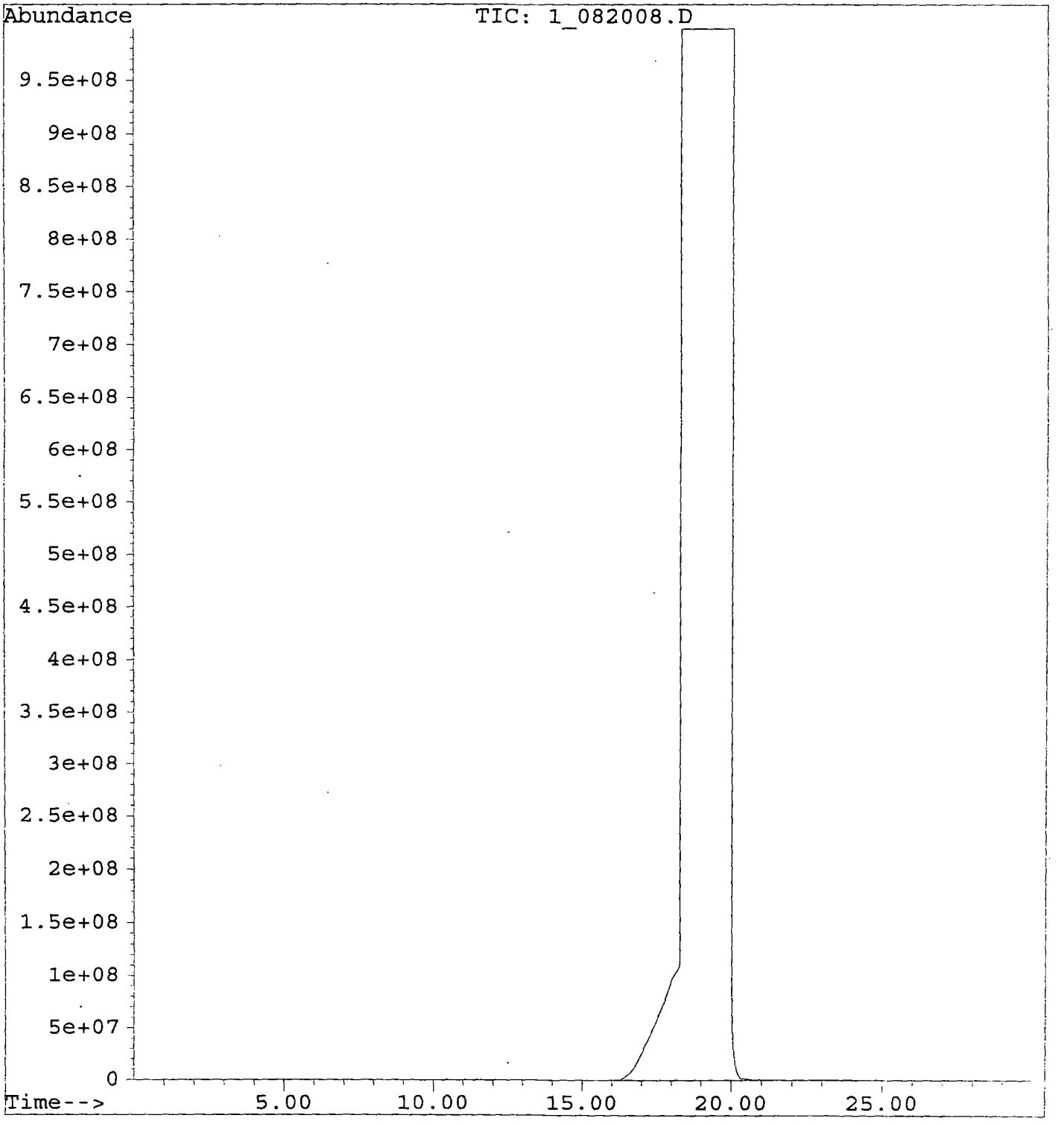
File : C:\HPCHEM\5\DATA\082001\1_082006.D
Operator : CR COL# 418002
Acquired : 20 Aug 01 14:59 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB#082001A (PEST)
Misc Info : COL# 418002
Vial Number: 6



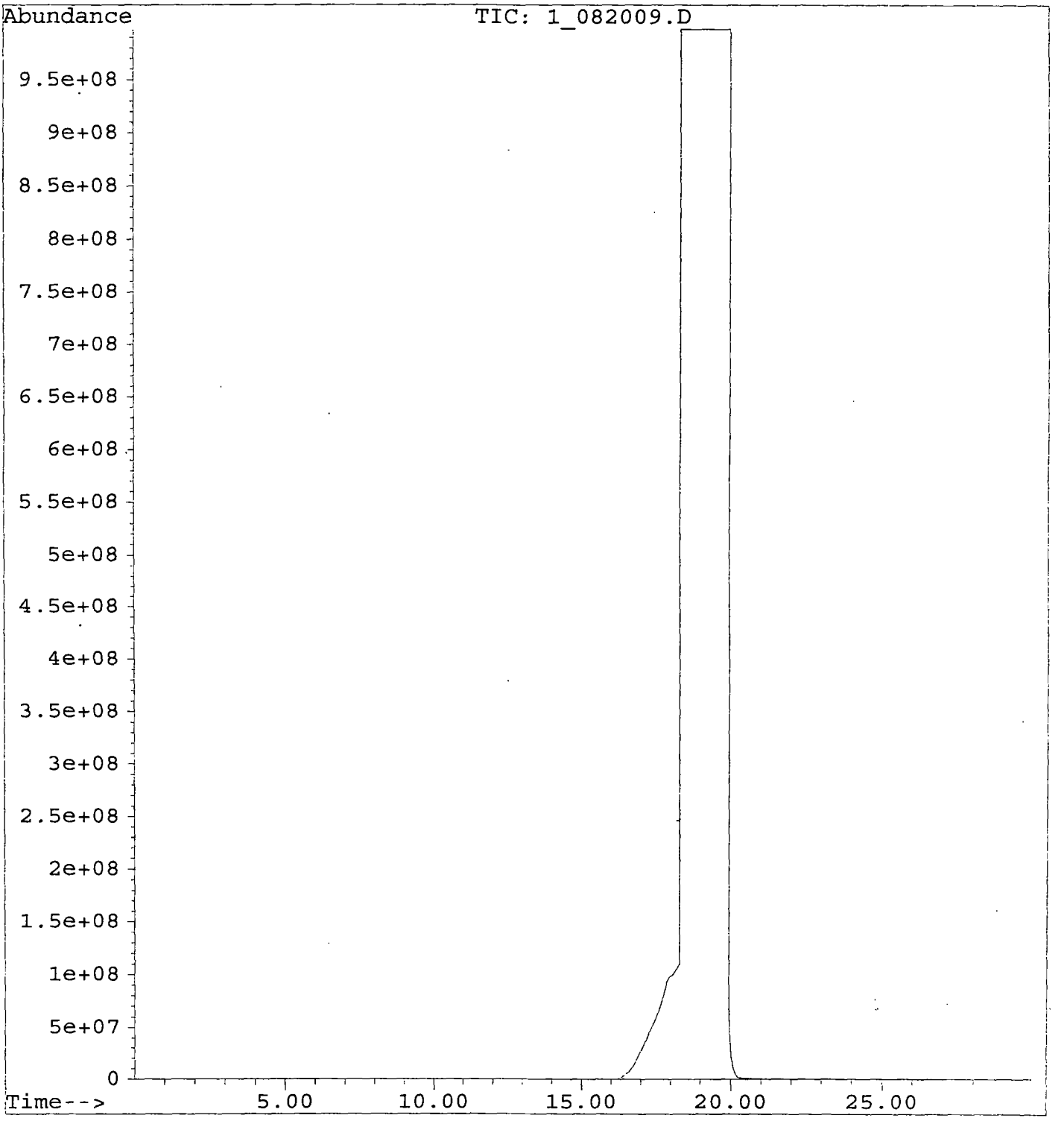
File : C:\HPCHEM\5\DATA\082001\1_082007.D
Operator : CR COL# 418002
Acquired : 20 Aug 01 15:30 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB#082001B (PEST)
Misc Info : COL# 418002
Vial Number: 7



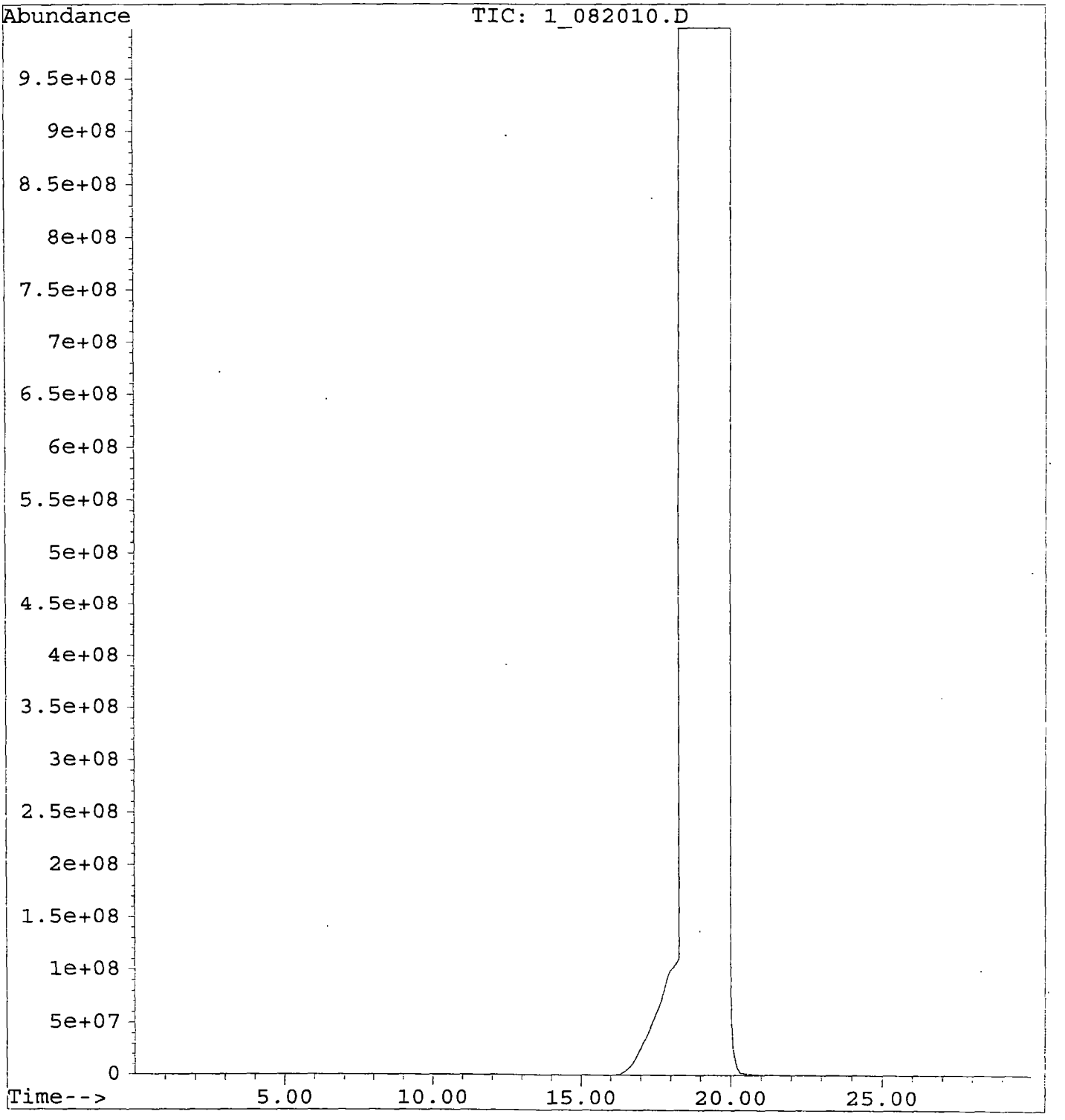
File : C:\HPCHEM\5\DATA\082001\1_082008.D
Operator : CR COL# 418002
Acquired : 20 Aug 01 16:01 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: BL0815SA-EPA
Misc Info : COL# 418002
Vial Number: 8



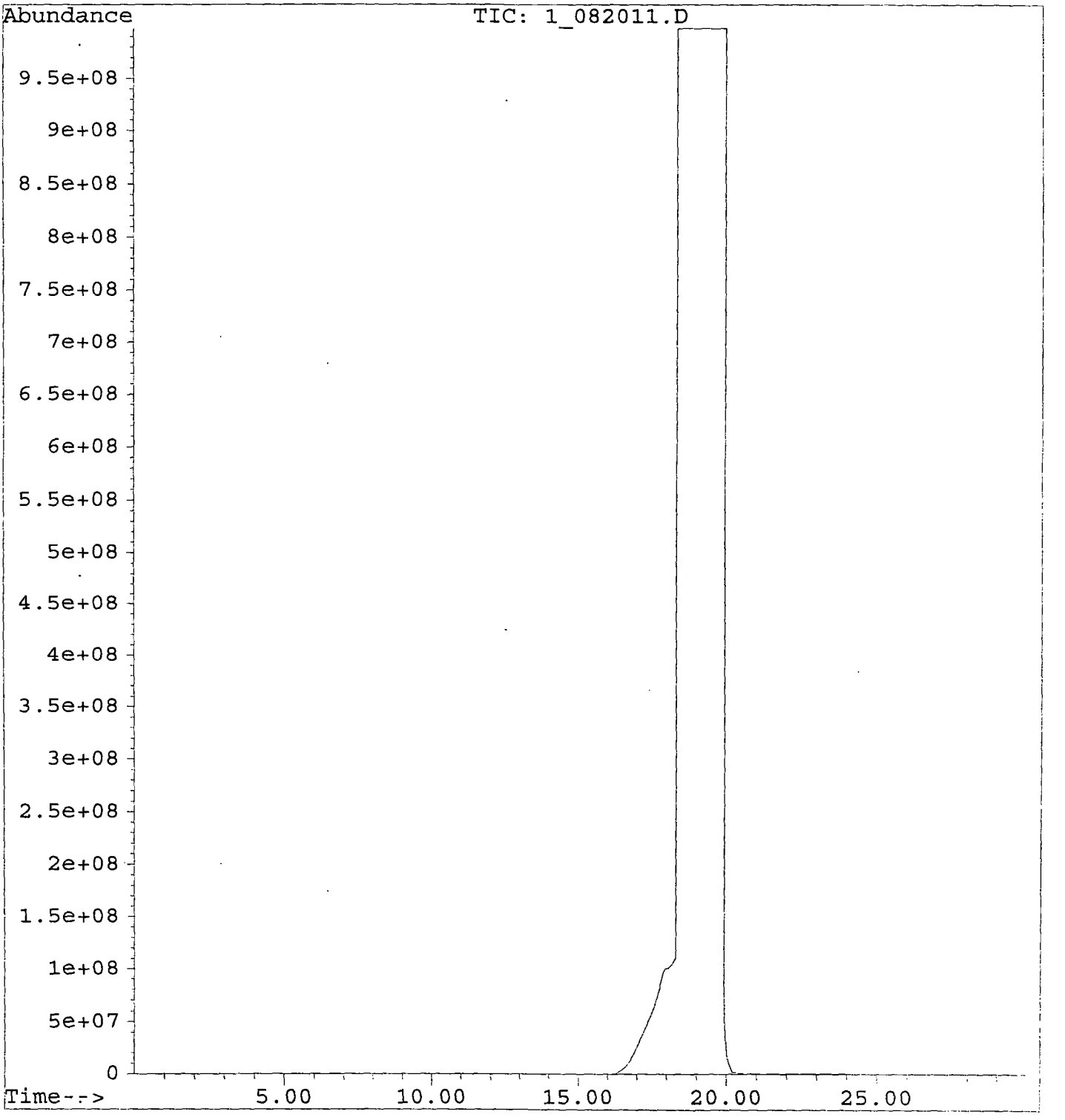
File : C:\HPCHEM\5\DATA\082001\1_082009.D
Operator : CR COL# 418002
Acquired : 20 Aug 01 16:32 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: BB0815SA-EPA
Misc Info : COL# 418002
Vial Number: 9



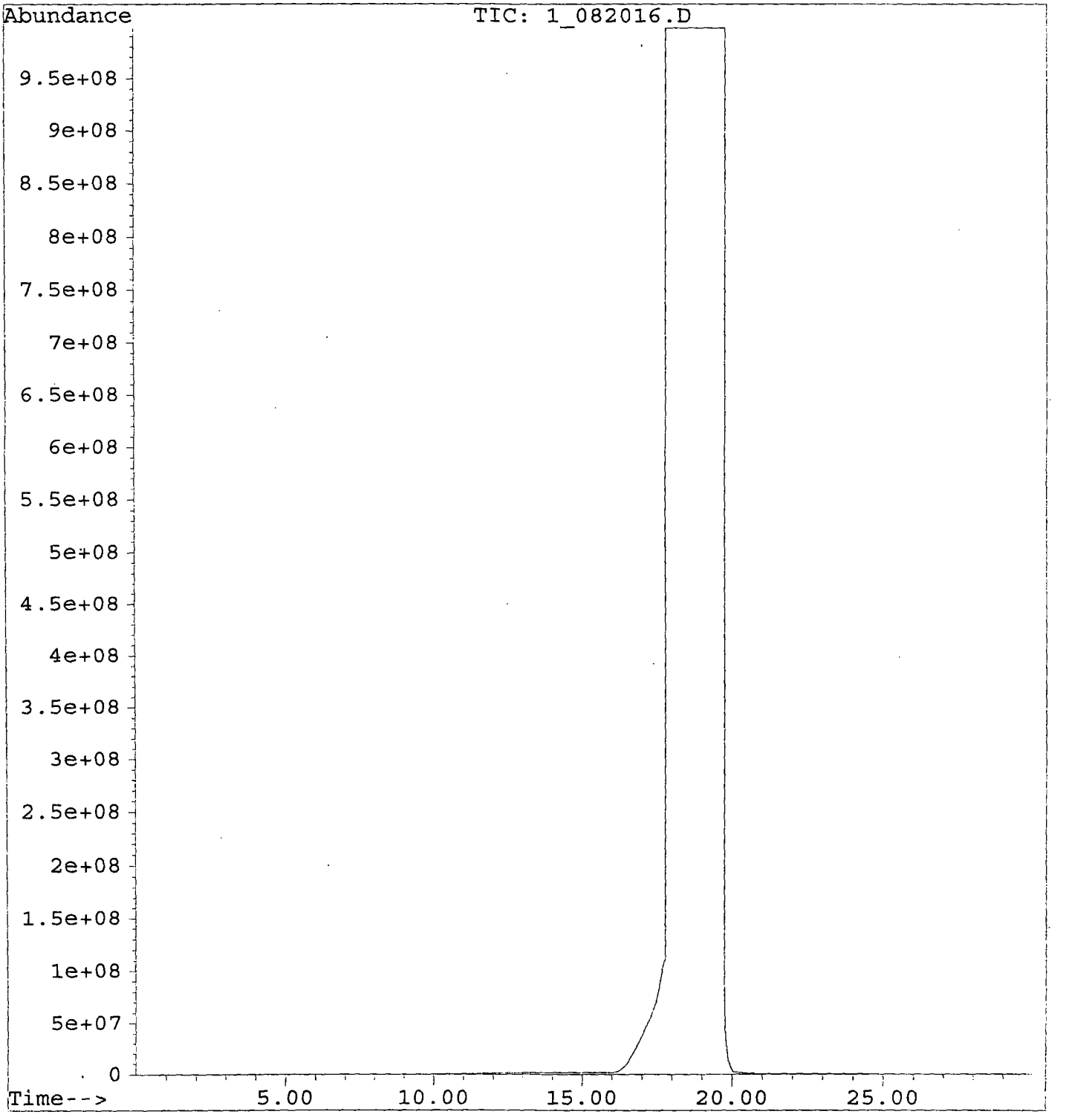
File : C:\HPCHEM\5\DATA\082001\1_082010.D
Operator : CR COL# 418002
Acquired : 20 Aug 01 17:03 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: LC0815SA-EPA
Misc Info : COL# 418002
Vial Number: 10



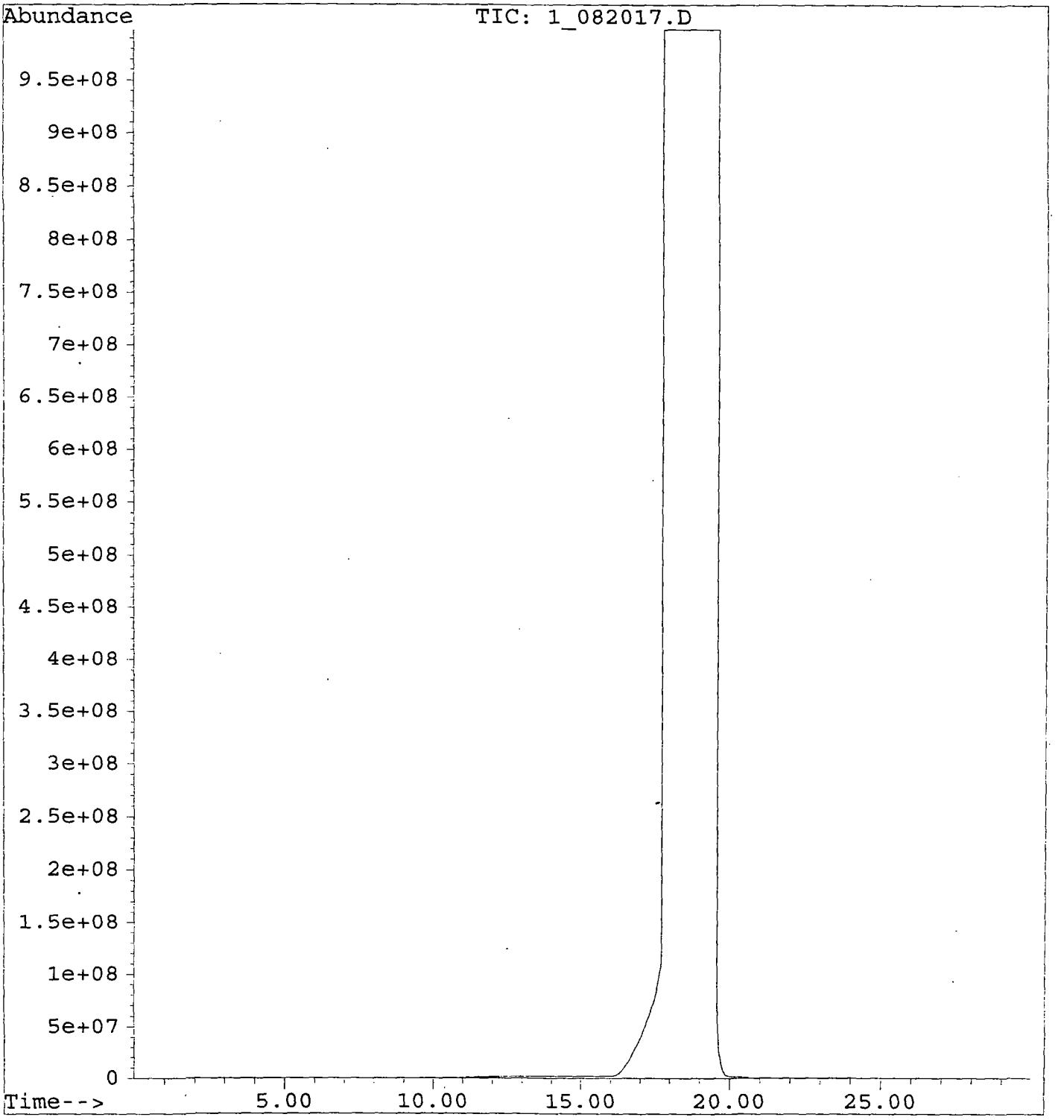
File : C:\HPCHEM\5\DATA\082001\1_082011.D
Operator : CR COL# 418002
Acquired : 20 Aug 01 17:33 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: LD0815SA-EPA
Misc Info : COL# 418002
Vial Number: 11



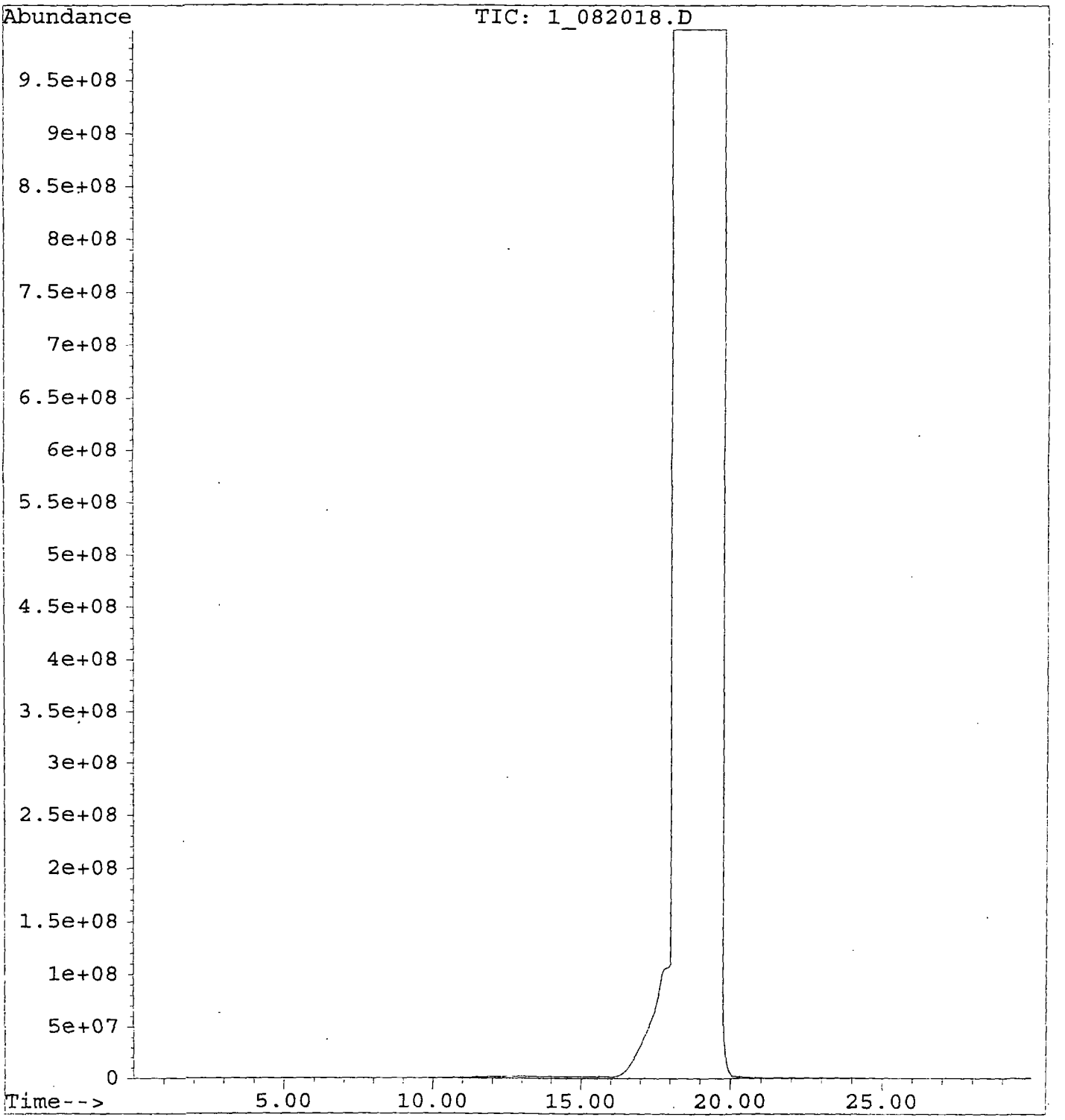
File : C:\HPCHEM\5\DATA\082001\1_082016.D
Operator : CR COL# 418002
Acquired : 20 Aug 01 20:08 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47279.01-E02G7-EPA
Misc Info : COL# 418002
Vial Number: 16



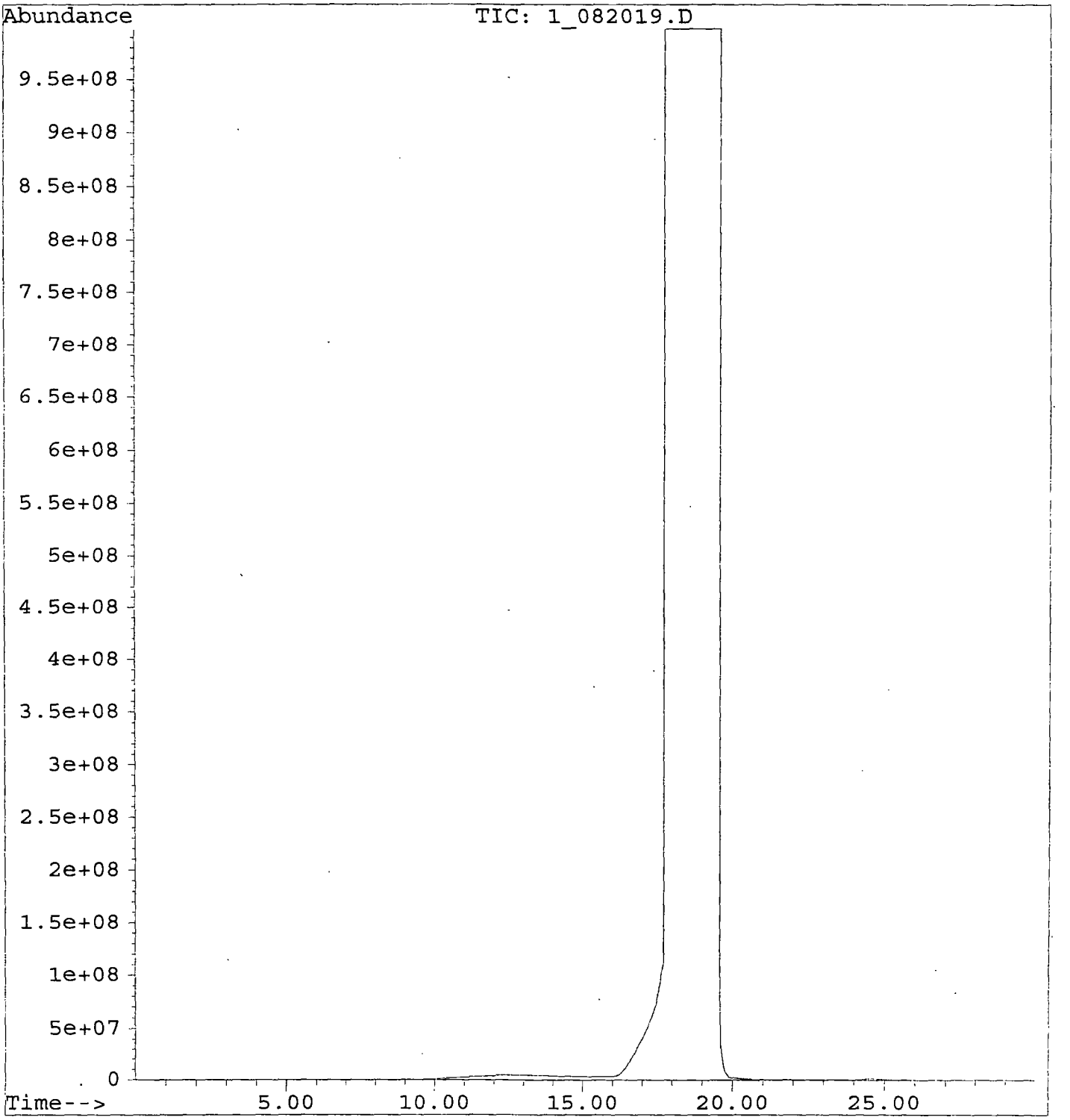
File : C:\HPCHEM\5\DATA\082001\1_082017.D
Operator : CR COL# 418002
Acquired : 20 Aug 01 20:39 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47279.02-E02G8-EPA
Misc Info : COL# 418002
Vial Number: 17



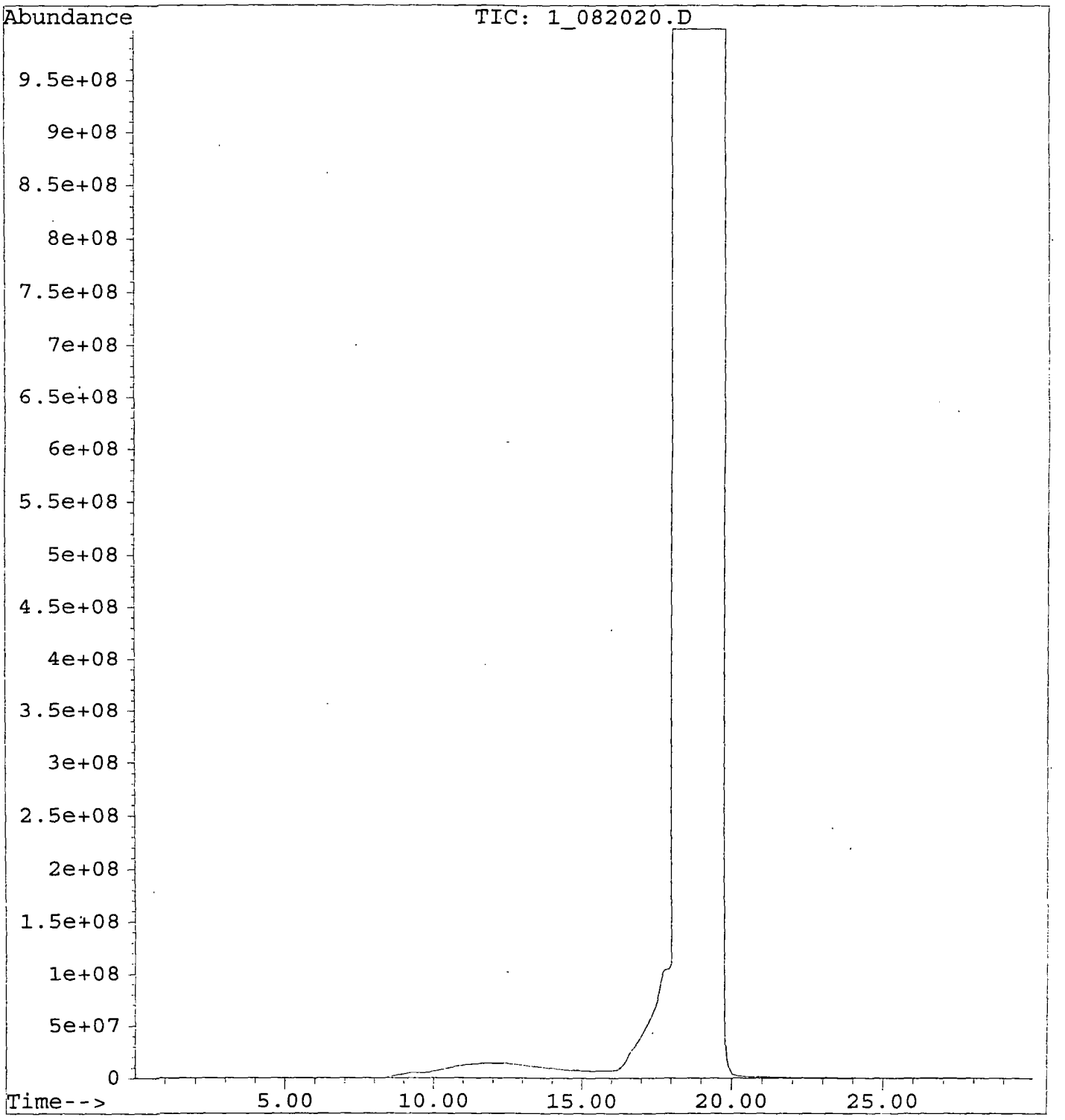
File : C:\HPCHEM\5\DATA\082001\1_082018.D
Operator : CR COL# 418002
Acquired : 20 Aug 01 21:10 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47279.08-E02H4-EPA
Misc Info : COL# 418002
Vial Number: 18



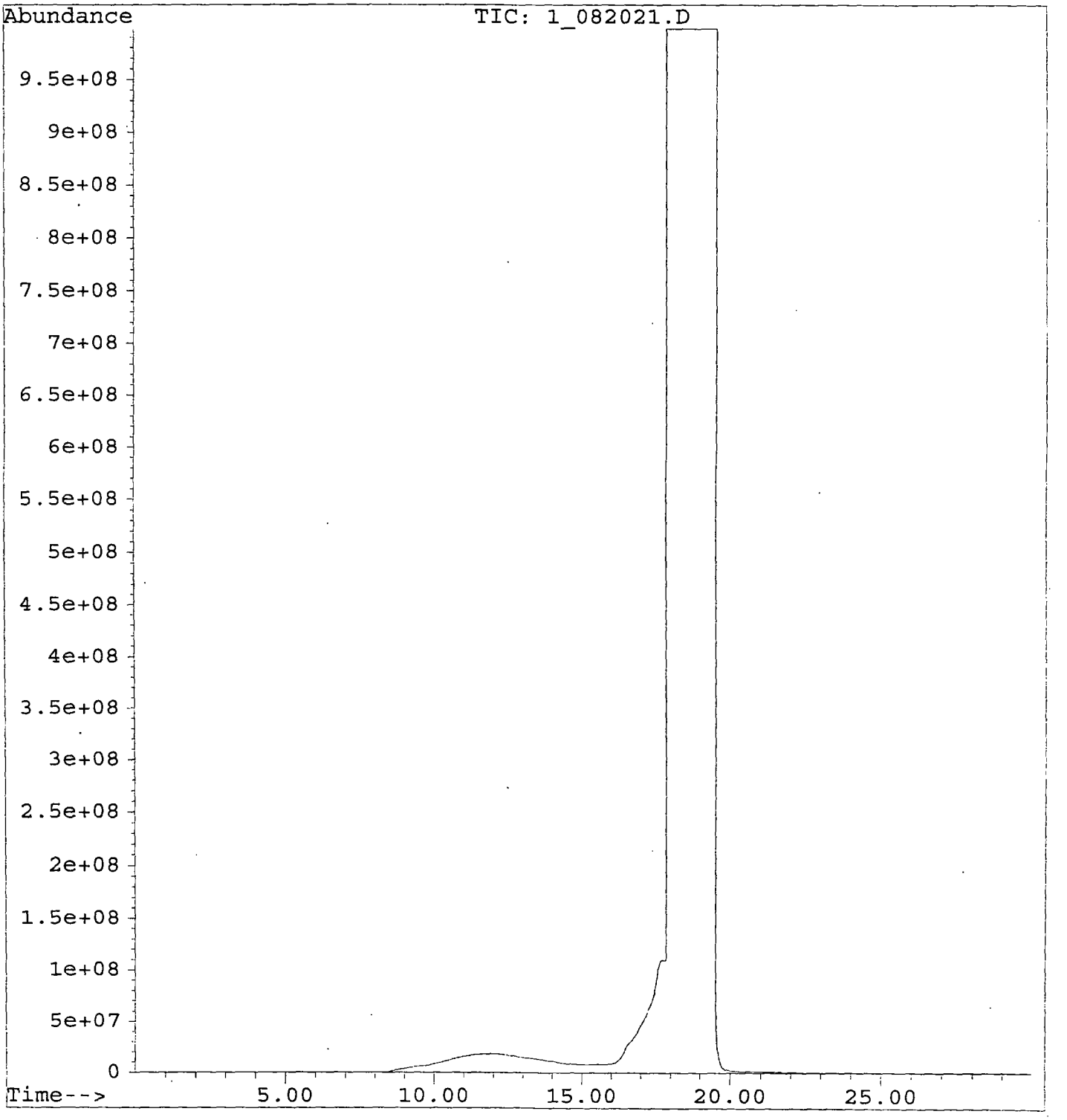
File : C:\HPCHEM\5\DATA\082001\1_082019.D
Operator : CR COL# 418002
Acquired : 20 Aug 01 21:41 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47279.03-E02G9-EPA
Misc Info : COL# 418002
Vial Number: 19



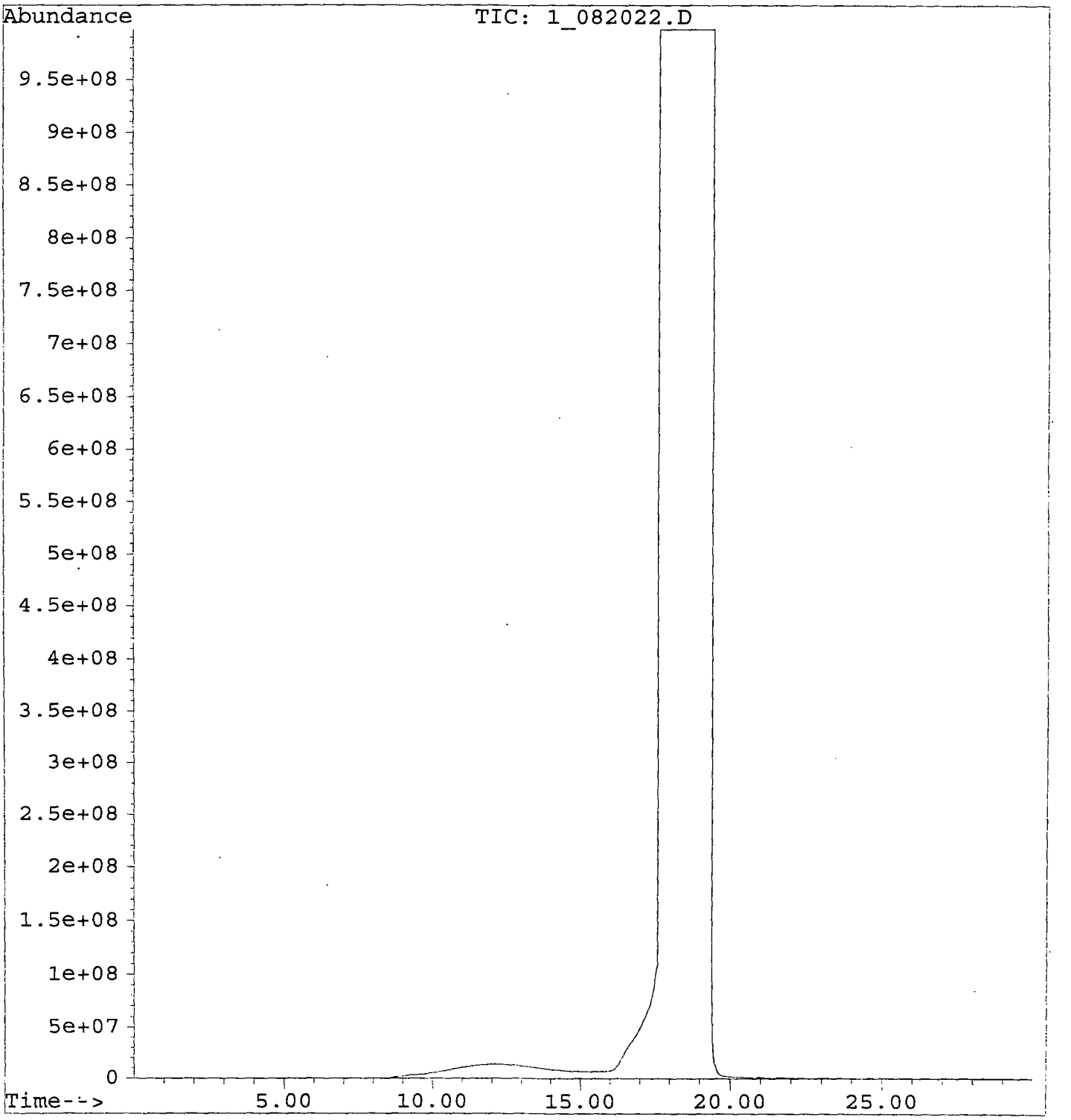
File : C:\HPCHEM\5\DATA\082001\1_082020.D
Operator : CR COL# 418002
Acquired : 20 Aug 01 22:12 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47279.04-E02H0-EPA
Misc Info : COL# 418002
Vial Number: 20



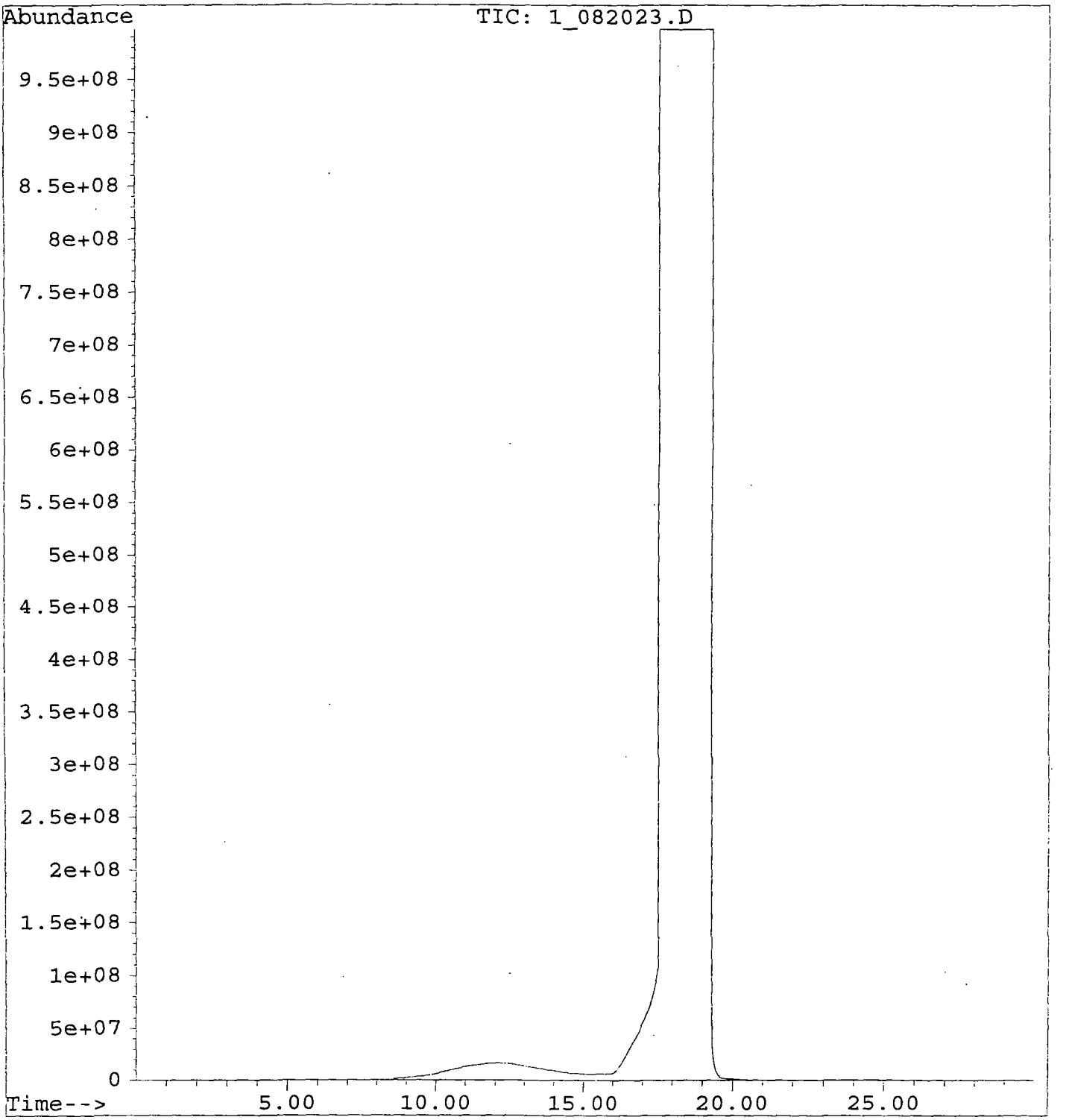
File : C:\HPCHEM\5\DATA\082001\1_082021.D
Operator : CR COL# 418002
Acquired : 20 Aug 01 22:43 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47279.05-E02H1-EPA
Misc Info : COL# 418002
Vial Number: 21



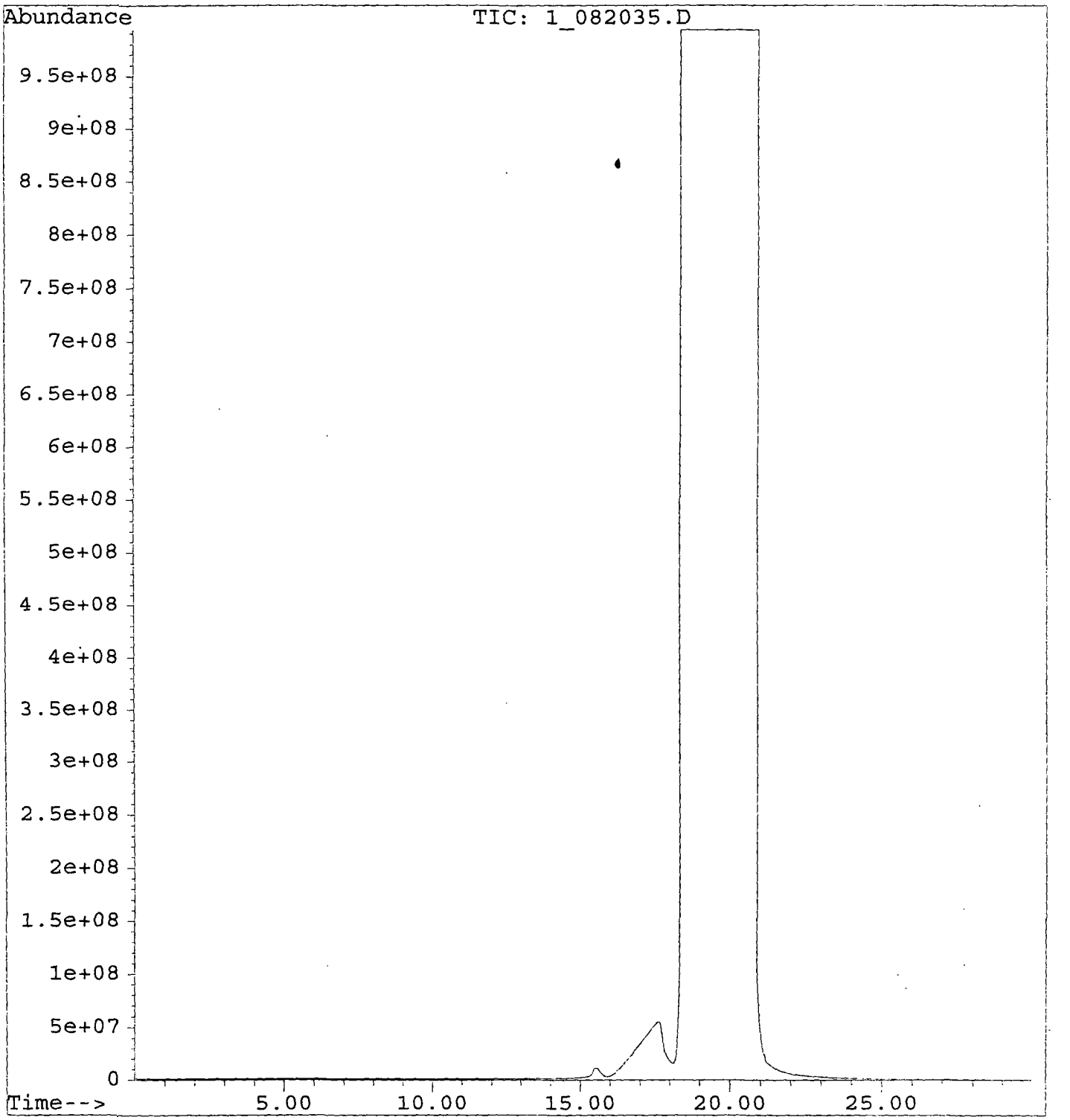
File : C:\HPCHEM\5\DATA\082001\1_082022.D
Operator : CR COL# 418002
Acquired : 20 Aug 01 23:14 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47279.06-E02H2-EPA
Misc Info : COL# 418002
Vial Number: 22



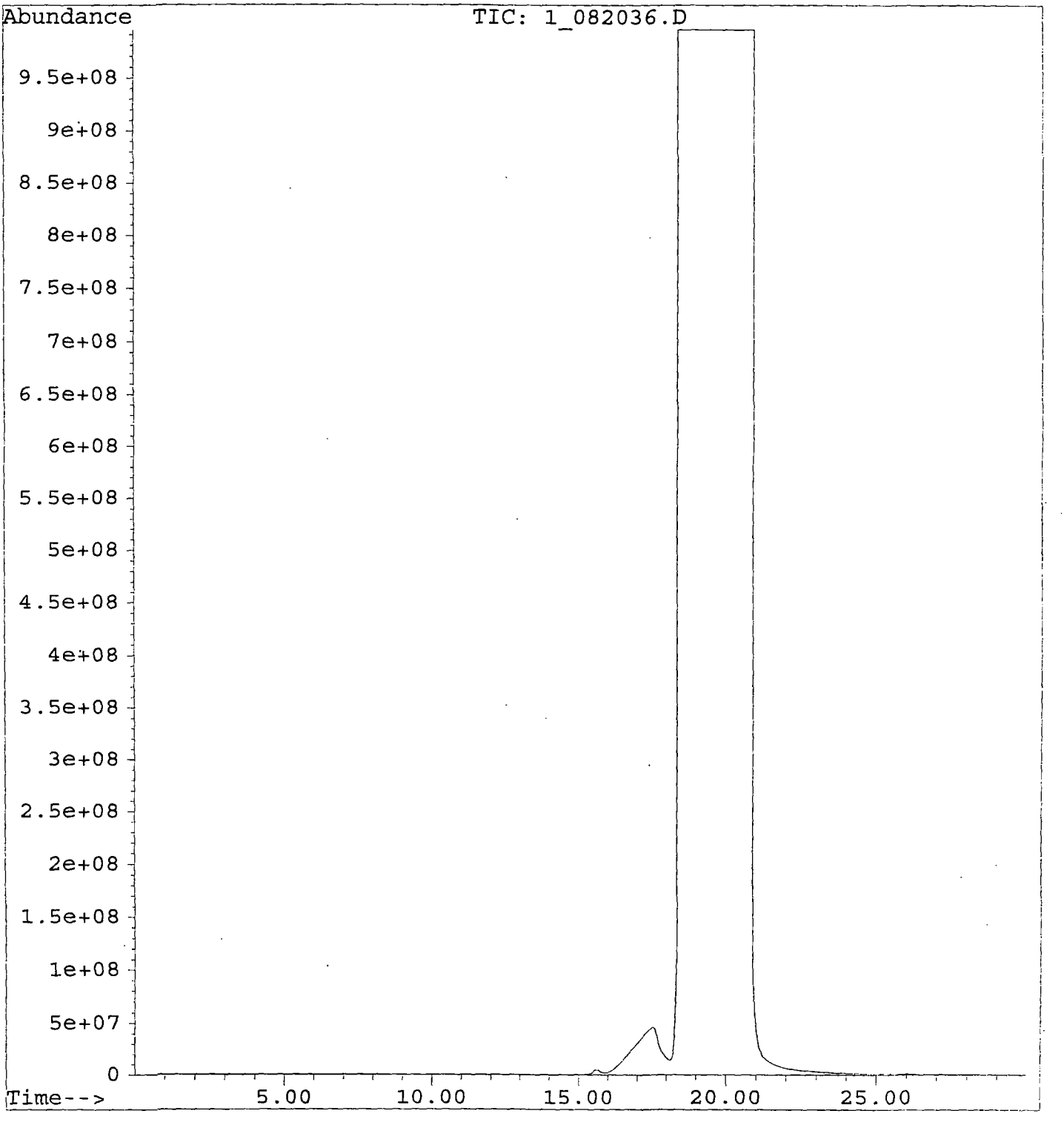
File : C:\HPCHEM\5\DATA\082001\1_082023.D
Operator : CR COL# 418002
Acquired : 20 Aug 01 23:45 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47279.07-E02H3-EPA
Misc Info : COL# 418002
Vial Number: 23



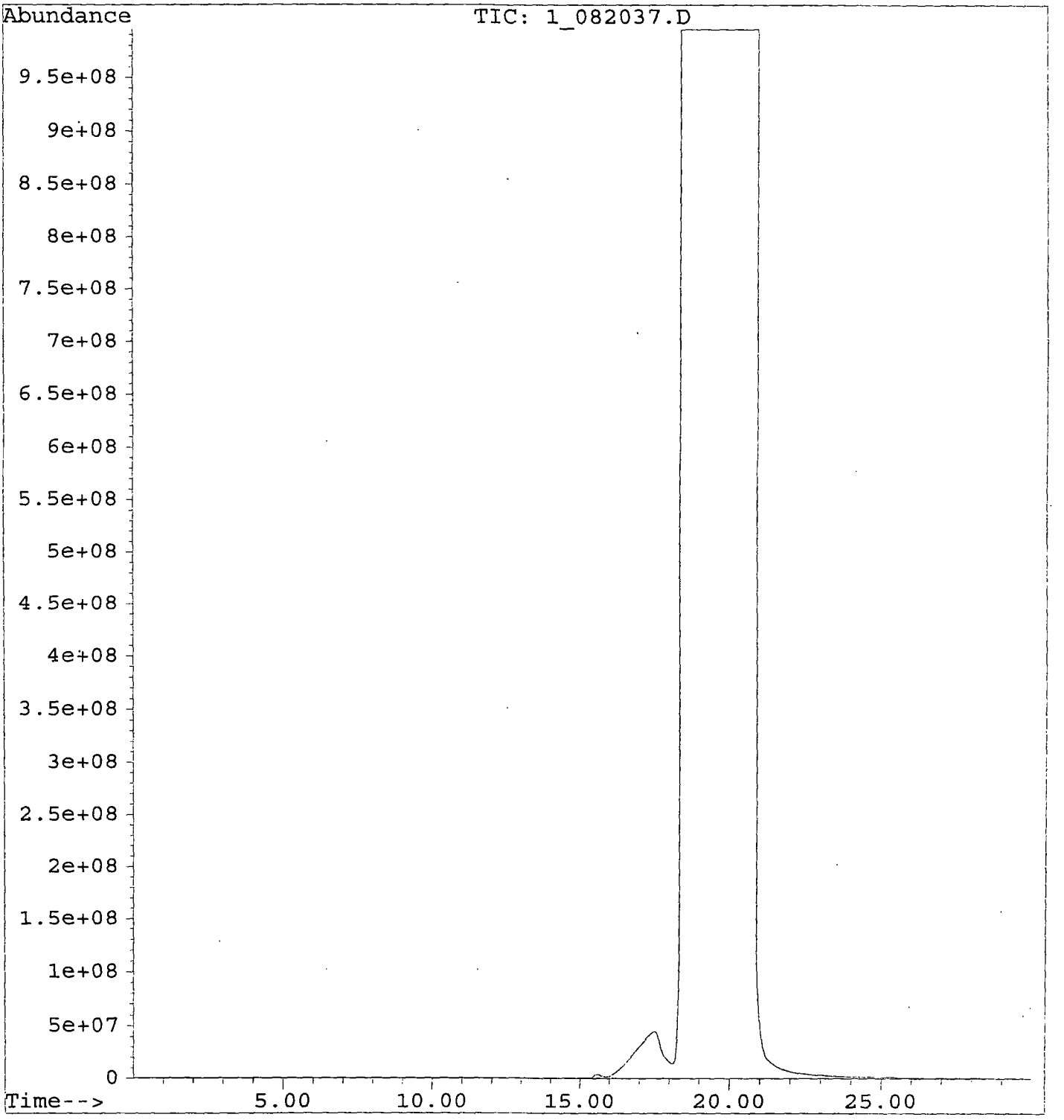
File : C:\HPCHEM\5\DATA\082001\1_082035.D
Operator : CR COL# 418002
Acquired : 21 Aug 01 05:57 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 35



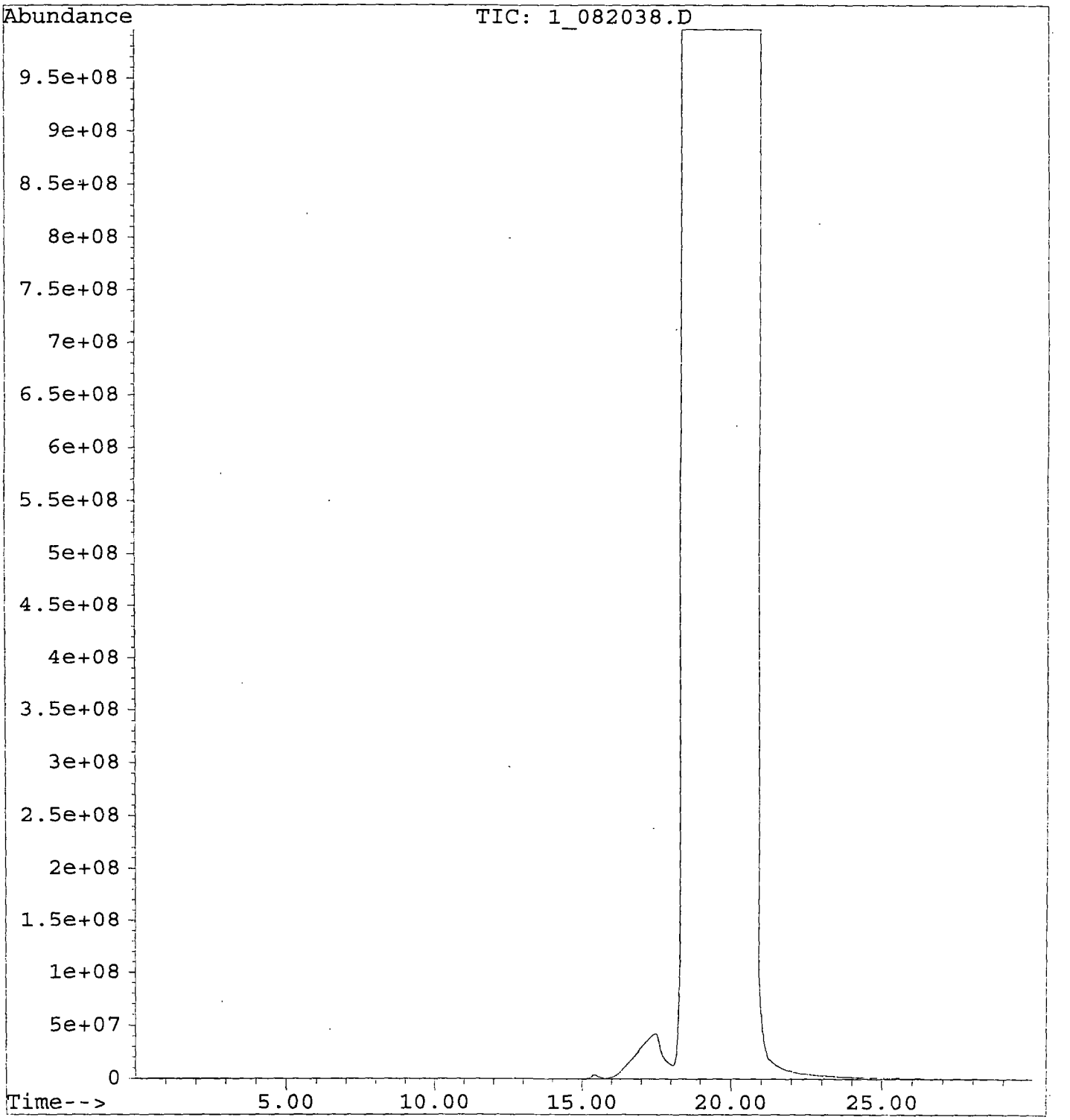
File : C:\HPCHEM\5\DATA\082001\1_082036.D
Operator : CR COL# 418002
Acquired : 21 Aug 01 06:28 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 36



File : C:\HPCHEM\5\DATA\082001\1_082037.D
Operator : CR COL# 418002
Acquired : 21 Aug 01 06:59 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 37

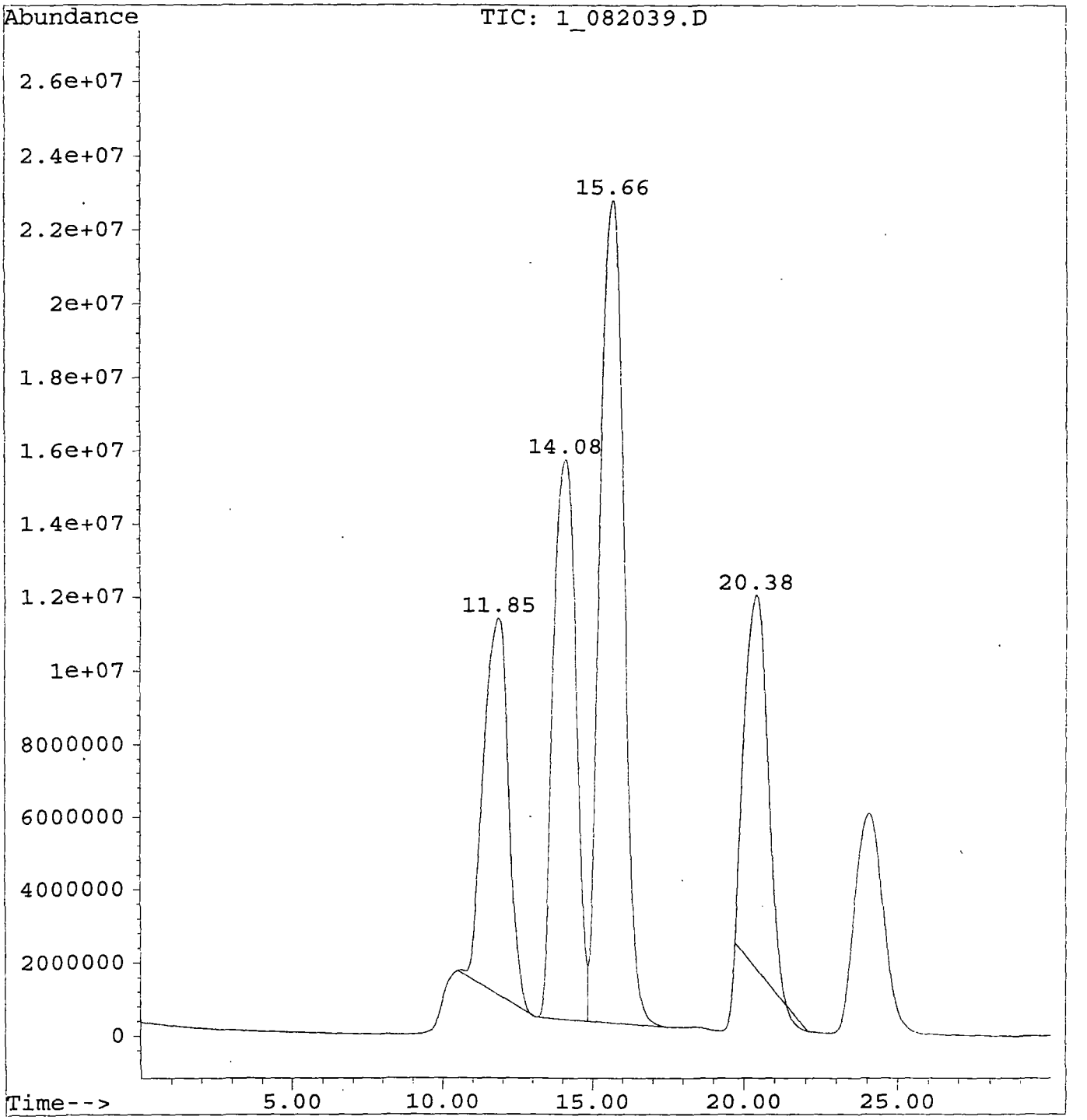


File : C:\HPCHEM\5\DATA\082001\1_082038.D
Operator : CR COL# 418002
Acquired : 21 Aug 01 07:30 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 38



Data File : C:\HPCHEM\5\DATA\082001\1_082039.D
Acq On : 21 Aug 01 08:01
Sample : CAL STD (FINAL)
Misc : COL# 418002

Vial: 39
Operator: CR COL#
Inst : GPC1
Multiplr: 1.00



1) 11.85 = Corn Oil

4) 14.08 = Pthalate
5) 15.66 = Methoxychlor

Chromatographic Resolution Report

Data File : C:\HPCHEM\5\DATA\082001\1_082039.D
Acq On : 21 Aug 01 08:01
Sample : CAL STD (FINAL)
Misc : COL# 418002

Vial: 39
Operator: CR COL# 41
Inst : GPC1
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\GPC.M
Title :

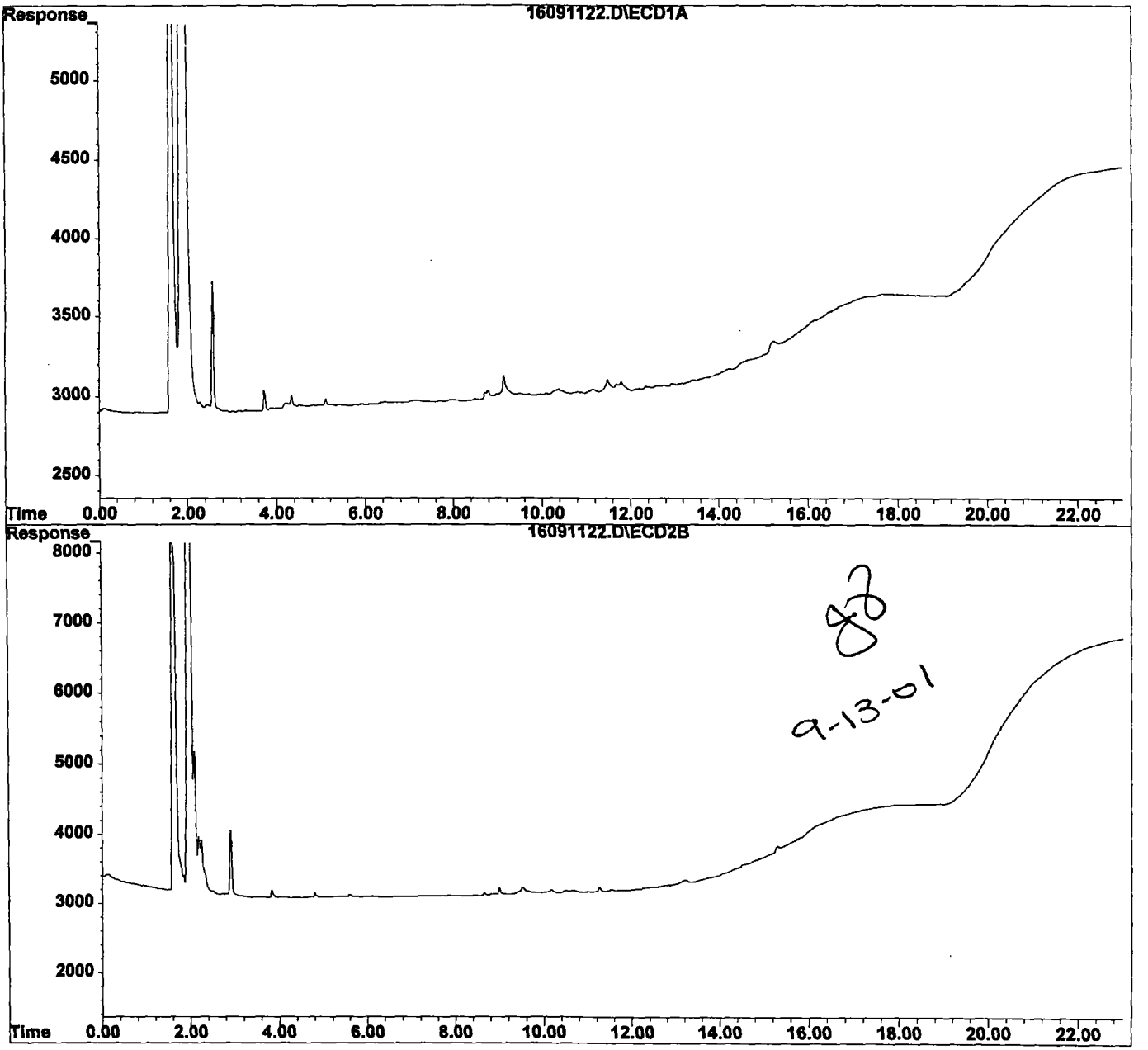
RT#1	RT#2	Resolution
11.854	14.083	100.00
14.083	15.660	90.31
15.660	20.376	100.00

Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091122.D\ECD1A.CH Vial: 26
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091122.D\ECD2B.CH
Acq On : 11 Sep 2001 21:12 Operator: DDC
Sample : SB082001A *SB082001A * Inst : HP_16
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:34 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B



Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091122.D\ECD1A.CH Vial: 26
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091122.D\ECD2B.CH
Acq On : 11 Sep 2001 21:12 Operator: DDC
Sample : SB082001A *SB082001A * Inst : HP_16
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 13:34 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds:

Target Compounds:

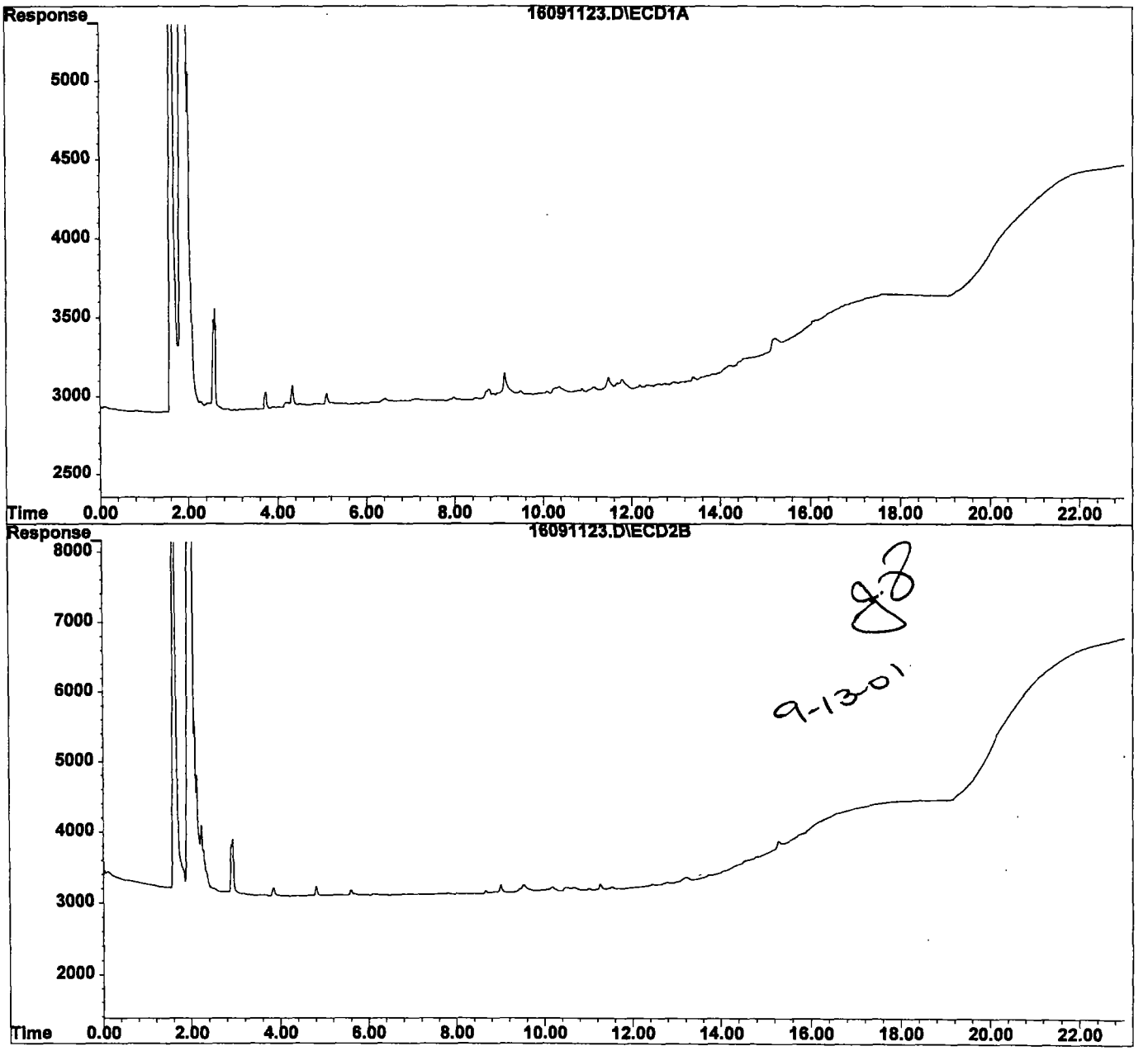
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091123.D\ECD1A.CH Vial: 27
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091123.D\ECD2B.CH
Acq On : 11 Sep 2001 21:39 Operator: DDC
Sample : SB082001B *SB082001B * Inst : HP_16
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 12:59 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B



9-13-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_11_01\16091123.D\ECD1A.CH Vial: 27
Signal #2 : F:\HPCHEM\HP\16\DATA\09_11_01\16091123.D\ECD2B.CH
Acq On : 11 Sep 2001 21:39 Operator: DDC
Sample : SB082001B *SB082001B * Inst : HP_16
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 12 12:59 2001 Quant Results File: XPCBI11.RES

Method : F:\HPCHEM\HP\16\DATA\09_11_01\XPCBI11.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_11_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

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

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-11 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_16
SDG NO. : SWLO METHOD FILE(S): XPCBI11 (OLM4.2)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/11/01 8:08	RESCCI	5-171-7	16091006	
09/11/01 11:25	HEXANE		16091101	OK
09/11/01 11:51	RESCCI	5-171-7	16091102	OK
09/11/01 12:18	AR1221L3CI	5-420-6	16091103	
09/11/01 13:15	AR1232L3CI	5-422-6	16091104	
09/11/01 13:41	AR1242L1CI	5-11-7	16091105	
09/11/01 14:08	AR1242L2CI	5-10-7	16091106	
09/11/01 14:34	AR1242L3CI	5-9-7	16091107	
09/11/01 15:01	AR1242L4CI	5-8-7	16091108	
09/11/01 15:28	AR1242L5CI	5-7-7	16091109	
09/11/01 15:55	AR1248L3CI	5-424-6	16091110	
09/11/01 16:21	AR1254L1CI	5-6-7	16091111	
09/11/01 16:48	AR1254L2CI	5-5-7	16091112	
09/11/01 17:14	AR1254L3CI	5-4-7	16091113	
09/11/01 17:41	AR1254L4CI	5-3-7	16091114	
09/11/01 18:07	AR1254L5CI	5-2-7	16091115	
09/11/01 18:34	AR1660L1CI	5-212-7	16091116	
09/11/01 19:00	AR1660L2CI	5-211-7	16091117	
09/11/01 19:27	AR1660L3CN	5-210-7	16091118	
09/11/01 19:53	AR1660L4CI	5-209-7	16091119	
09/11/01 20:19	AR1660L5CI	5-208-7	16091120	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

Blaine Bailey 091301 — Verification Signature/Date

9-13-01 — Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-11 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_16
SDG NO. : SWLO METHOD FILE(S): XPCBI11 (OLM4.2)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/11/01 20:46	PIBLKCW	5-131-7	16091121	QC
09/11/01 21:12	SB082001A	SB082001A	16091122	
09/11/01 21:39	SB082001B	SB082001B	16091123	
09/11/01 22:05	PBLKSA	BL0815SA	16091124	
09/11/01 22:32	PBLKSA	BB0815SA	16091125	
09/11/01 22:58	ELCS1	LC0815SA	16091126	
09/11/01 23:25	ELCS2	LD0815SA	16091127	
09/11/01 23:51	E02F5	47268.01	16091128	
09/12/01 00:18	E02F6	47268.02	16091129	OK
09/12/01 00:44	E02F7	47268.03	16091130	DDC 9-13-01 OK
09/12/01 1:11	E02F8	47268.04	16091131	OK
09/12/01 1:37	HEXANE		16091132	SL
09/12/01 2:03	HEXANE		16091133	SL
09/12/01 2:30	HEXANE	HEXANE	16091134	SL
09/12/01 2:56	AR1660L3CO	5-210-7	16091135	OK DDC 9-14-01
09/12/01 3:23	AR1660L3CP	5-210-7	16091136	NC
09/12/01 3:49	PIBLKCX	5-131-7	16091137	OK DDC 9-14-01
09/12/01 4:16	E02F9	47268.05	16091138	OK
09/12/01 4:42	E02G0	47268.06	16091139	
09/12/01 5:08	E02G1	47268.07	16091140	
09/12/01 5:35	E02G2	47268.08	16091141	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

Diane Bilek 091301 — Verification Signature/Date

9-13-01 — Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-11 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_16
SDG NO. : SWLO METHOD FILE(S): XPCBI11 (OLM4.2)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/12/01 6:01	E02G3	47268.09	16091142	OK
09/12/01 6:28	E02G4	47268.10	16091143	
09/12/01 6:54	E02G5	47268.11	16091144	
09/12/01 7:21	E02G6	47268.12	16091145	
09/12/01 7:47	E02G6MS	47268.13MS	16091146	
09/12/01 8:14	E02G6MSD	47268.14MSD	16091147	OK
09/12/01 8:40	HEXANE		16091148	Sol
09/12/01 9:06	HEXANE		16091149	Sol
09/12/01 9:33	HEXANE		16091150	Sol
09/12/01 9:59	PIBLKCY	5-131-7	16091151	OK
09/12/01 10:26	AR1660L3CQ	5-210-7	16091152	Out high
09/12/01 10:52	AR1660L3CR	5-210-7	16091153	OK
09/12/01 11:19	E02G7	47279.01	16091154	OK
09/12/01 11:45	E02G8	47279.02	16091155	
09/12/01 12:12	E02G9	47279.03	16091156	
09/12/01 12:38	E02H0	47279.04	16091157	
09/12/01 13:05	E02H1	47279.05	16091158	
09/12/01 13:31	E02H2	47279.06	16091159	
09/12/01 13:57	E02H3	47279.07	16091160	
09/12/01 14:24	E02H4	47279.08	16091161	OK
09/12/01 14:50	HEXANE		16091162	Sol

Unless noted, Client Ids are the same for the quant. & confirmation columns

Blaine Baldwin 091301 — Verification Signature/Date

Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-11 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_16
SDG NO. : SWLO METHOD FILE(S): XPCBI11 (OLM4.2)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/12/01 15:17	HEXANE		16091163	Sl
09/12/01 15:44	HEXANE		16091164	Sl
09/12/01 16:22	PIBLKCZ X	5-131-7	16091165	OK
09/12/01 16:49	AR1660L3CS X	5-210-7	16091166	out high
09/12/01 17:15	AR1660L3CT X	5-210-7	16091167	OK
09/12/01 17:42	SB081901C	SB081901C	16091168	OK
09/12/01 18:08	SB081901D	SB081901D	16091169	
09/12/01 18:34	PBLKSC	BL0814SC	16091170	
09/12/01 19:01	PBLKSC	BB0814SC	16091171	
09/12/01 19:27	ELCS1	LC0814SC	16091172	
09/12/01 19:54	ELCS2	LD0814SC	16091173	
09/12/01 20:20	E02D5	47267.01	16091174	
09/12/01 20:47	E02D6	47267.02	16091175	OK
09/12/01 21:13	47267.03		16091176	N
09/12/01 21:39	E02D8	47267.04	16091177	OK
09/12/01 22:06	HEXANE		16091178	Sl
09/12/01 22:32	HEXANE		16091179	Sl
09/12/01 22:59	HEXANE		16091180	Sl
09/12/01 23:25	PIBLKCA	5-131-7	16091181	OK
09/12/01 23:52	AR1660L3CV	5-210-7	16091182	OK
09/13/01 00:18	AR1660L3CW	5-210-7	16091183	N

Unless noted, Client Ids are the same for the quant. & confirmation columns

Blaine Bailey 091301 — Verification Signature/Date

13 9-13-01 DPR 9-13-01 — Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK AATS SWLO-OP-301 OP-301-RUNLOG-11 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_16
SDG NO. : SWLO METHOD FILE(S): XPCBI11 (OLM4.2)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/13/01 00:44	E02D9	47267.05	16091184	OK
09/13/01 1:11	E02E0	47267.06	16091185	
09/13/01 1:37	E02E1	47267.07	16091186	
09/13/01 2:04	E02E2	47267.08	16091187	
09/13/01 2:30	E02E3	47267.09	16091188	
09/13/01 2:57	E02E4	47267.10	16091189	
09/13/01 3:23	E02E5	47267.11	16091190	
09/13/01 3:49	E02E6	47267.12	16091191	
09/13/01 4:16	E02E7	47267.13	16091192	
09/13/01 4:42	E02E8	47267.14	16091193	OK
09/13/01 5:08	HEXANE		16091194	SI
09/13/01 5:35	HEXANE		16091195	SI
09/13/01 6:01	HEXANE	HEXANE	16091196	SI
09/13/01 6:28	PIBLKCB	5-131-7	16091197	OK
09/13/01 6:54	AR1660L3CY	5-210-7	16091198	OK
09/13/01 7:21	AR1660L3CY		16091199	

Unless noted, Client Ids are the same for the quant. & confirmation columns

Blaine Bolds 091321 — Verification Signature/Date

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