Data Review
Site Name: Allied Paper (MI)
Case Number: 29684 Laboratory: Southwest Laboratory
SDG: E04F1

Friday, October 19, 2001

US EPA RECORDS CENTER REGION 5
560077

PCBs

Samples:

Sample No	Station Location	Matrix	Date Collected	Date Extracted	Date Analyzed
E04F1	AP-SD004-18-03	Soil	08/28/01	09/08/01	09/28/01
E04F2	AP-SD004-18-04	Soil	08/28/01	09/08/01	09/28/01
E04F3	AP-SD004-18-05	Soil	08/28/01	09/08/01	09/28/01
E04F4	AP-SD004-22-01	Soil	08/28/01	09/08/01	09/28/01
E04F5	AP-SD004-22-02	Soil	08/28/01	09/08/01	09/28/01
E04F6	AP-SD004-22-03	Soil	08/28/01	09/08/01	09/28/01
E04F7	AP-SD004-31-01	Soil	08/28/01	09/08/01	09/28/01
E04F8	AP-SD004-31-02	Soil	08/28/01	09/08/01	09/28/01
E04F9	AP-SD004-31-03	Soil	08/28/01	09/08/01	09/28/01
E04G0	AP-SD004-31-04	Soil	08/28/01	09/08/01	09/29/01
E04G1	AP-SD004-20-01	Soil	08/28/01	09/08/01	09/29/01
E04G2	AP-SD004-20-02	Soil	08/28/01	09/08/01	09/29/01
E04G3	AP-SD004-20-03	Soil	08/28/01	09/08/01	09/29/01
E04G4	AP-SD004-20-04	Soil	08/28/01	09/08/01	09/29/01
E04G5	AP-SD004-20-04DP	Soil	08/28/01	09/08/01	09/29/01
E04G6	AP-SD004-20-05	Soil	08/28/01	09/08/01	09/29/01
E04G7	AP-SD004-24-01	Soil	08/28/01	09/08/01	09/29/01
E04G8	AP-SD004-24-02	Soil	08/28/01	09/08/01	09/29/01
E04G9	AP-SD004-24-03	Soil	08/28/01	09/08/01	09/29/01
E04H0	AP-SD004-24-04	Soil	08/28/01	09/08/01	09/29/01

Holding Time:

All samples were extracted and analyzed within the required holding time. The samples arrived in a cooler at 2.1 degrees Celsius.

Method Blank:

The method blank PBLKSA was associated with this SDG. PBLKSA was analyzed on 09/28/01 with (E04F1 thru E04F9, E04G0 thru E04G9, E04H0, and MS/MSD). The 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:

The method blank 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 E04F1. 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 duplicate, and the (RPD%) relative percent difference recoveries were within the quality control limits (29 to 135%).

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

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

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

Data Reviewed By: Tania Balikji-Shammo Date: 10/17/01

067- 4A -AA2A

DATE: October 5, 2001

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

RECEIVED
OCT 10 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
29684	SOUTHWEST	20	E04F1	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

B

OCT 05 2001

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 10/3/01

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

TO: Data User: Weston

We have reviewed the data for the following case:

SITE NAME: Allied Paper (MI)

CASE NUMBER: 29684 SDG NUMBER: E04F1

Number and Type of Samples: 20 (soil)

Sample Numbers: E04F1-9, E04G0-9, E04H0

Laboratory: SWOK Hrs for Review:

Following are our findings:

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

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

Sample Delivery Group: E04F1 CERCLIS No: MID006007306

Case No: 29684 Site Name/Location: Allied Paper

Contractor or EPA Lab: SWOK Data User: Weston

No. of Samples: 20 Date Sampled or Date Received: 10/3/01

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

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

Received by: Nicole Jackson/ESAT Date: 10/3/01

Received by LSSS: Nicole Jackson/ESAT Date: 10/3/01

Review started: ____ Reviewer Signature: ____

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

Copied by: Nicole Jackson/ESAT Date: ____

Mailed to user by: Nicole Jackson/ESAT Date: ____

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

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

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

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

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

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 29684 SDG No. E0481 SDG Nos. to Follow _____ _____ _____ SAS No. _____ Date Recvd 10/3/01

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

Received by: Nicole Jackson Nicole Jackson / CSAT Date 10/3/01

Audited by: _____ _____ Date / /

Audited by: _____ _____ Date / /

Signature Printed Name/ Title

TO BE COMPLETED BY CEAT

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

Entered by: _____ _____

Reviewed by: _____ _____

Signature Printed Name/ Title

ESAT Tracking Log-In Sheet

Data Review Level 1
# of Folders 1

SOW Version # 4.2
Site/Project ID: 059BL100

DATE RECEIVED AT CRL 10/3/01

USER Watson

SITE NAME Allied Paper (MI)

CASE/SAS NUMBER 29684 SDG. NO. E04F1

SAMPLING DATE 8/28/01 DATE SHIPPED 8/29/01

CONTRACT LAB SWOK

NUMBER OF SAMPLES 20 DATE TO ETM

SAMPLES	MATRIX	ANALYSES
E04F1-9	Soil Water Other	PCBs
E04G10-9	Soil Water Other	
E04H0	Soil Water Other	
	Soil Water Other	
	Soil Water Other	
	Soil Water Other	
	Soil Water Other	
	Soil Water Other	
	Soil Water Other	
	Soil Water Other	
	Soil Water Other	
	Soil Water Other	

ANALYSES: V = Volatiles SV = Semivolatiles P/P = Pesticides D = Dioxin
TM = Total Metals CN = Cyanide Hg = Mercury

* MAKE SURE YOU LOG DATA CASES INTO THE CASES TO LSSS BOOK *

OCT 0 3 2001

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME SOUTHWEST LABORATORY OF OKLAHOMA
CITY/STATE BROKEN ARROW, OKLAHOMA
CASE NO. 29684 SDG NO. E04F1 SDG NOS. TO FOLLOW
SAS NO.
CONTRACT NO. 68W99079
SOW NO. OLM04.2

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

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
1. Inventory Sheet (Form DC-2) (Do not Number)				
2. SDG Case Narrative	1	2	ct	
3. SDG Cover Sheet/Traffic Report	3	6		
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. 29684 SDG NO. E04F1 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	7	7		
MS/MSD Duplicate Summary (Form III PEST)	8	9		
Method Blank Summary (Form IV PEST)	10	10		

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

CASE NO. 29684 SDG NO. E04F1 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. Pesticides Data (Cont.)				
b. Sample Data	11	87		
TCL Results - Organic Analysis Data Sheet (Form I PEST)			OK	
Chromatograms (Primary Column)				
Chromatograms from second GC column				
GC Integration report or data system printout				
Manual work sheets				
For pesticides/Aroclors by GC/MS, Copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)				
c. Standards Data	88	208		
Initial Calibration of Single Component (Form VI PEST-1 and PEST-2)				
Initial Calibration of Multicomponent Analytes (Form VI PEST-3)				
Analyte Resolution Summary (Form VI PEST-4)				
Performance Evaluation Mixture (Form VI PEST-5)				
Individual Standard Mixture A (FORM VI PEST-6)				
Individual Standard Mixture B (FORM VI PEST-7)				
Calibration Verification Summary (Form VII PEST-1)				
Calibration Verification Summary (Form VII PEST-2)				
Analytical Sequence (Form VIII PEST)				
Florisil Cartridge Check (Form IX PEST-1)				
Pesticide GPC Calibration (Form IX PEST-2)				
Pesticide Identification Summary for Single Component Analytes (Form X PEST-1)				
Pesticide Identification Summary for Multicomponent Analytes (Form X PEST-2)				
Chromatograms and data system printouts A printout of retention times and corresponding peak areas or peak heights				
d. Raw QC Data				
Blank Data	209	232		
Matrix Spke/Matrix Spike Duplicate Data	233	249		

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

CASE NO. 29684 SDG NO. E04F1 SDG NOS. TO FOLLOW _____

SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. Pesticides Data (Cont.)				
e. Raw GPC Data	250	295	✓	
f. Raw Florisil Data	NA	NA		
7. Miscellaneous Data				
Original preparation and analysis forms or of preparation and analysis logbook pages	296	301		
Internal sample and sample extract transfer chain-of-custody records	302	305		
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)	306	306		
Chain-of-Custody Records	307	309		
Sample Tags	310	329		
Sample Log-in Sheet (Lab & DC1)	330	333		
Miscellaneous Shipping/Receiving Records (describe or list)				
Memos, Changes, Analytical Request	334	340		
	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. 29684 SDG NO. E04F1 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	(Signature)	(Printed Name/Title)	(Date)
Completed by: (CLP Lab)	Emma Morton	Emma Morton Data Clerk	10-01-01
Verified by: (CLP Lab)	Carolyn Tackett	Carolyn Tackett/DATA CLERK	10-2-01
Audited by: (EPA)			

OCT 03 2001

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

SDG NARRATIVE

October 2, 2001

CONTRACT: 68W99079

CASE NO: 29684

SDG NO: E04F1

SAMPLES: E04F1, E04F1MS, E04F1MSD, E04F2, E04F3, E04F4, E04F5, E04F6, E04F7, E04F8, E04F9, E04G0, E04G1, E04G2, E04G3, E04G4, E04G5, E04G6, E04G7, E04G8, E04G9 and E04H0.

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 2.1 degrees Celsius.

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

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

Surrogates: All surrogates were within QC limits.

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 had all recoveries 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%).

All manual integrations in this data package for GC/ECD 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

Harry M. Borg
Organic Program Manager October 2, 2001

Contract Laboratory Program

Sample Delivery Group (SDG) Cover Sheet

SDG Number E04F1

Laboratory Name Southwest Laboratory of Ok. Laboratory Code SWOK

Contract No. 68W99079 Case No. ~~OLM04.2~~ 29684

Analyses Price 569.00 SDG Turnaround 21

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) E04F1	7) E04F7	13) E04G3	19) E04G9
2) E04F2	8) E04F8	14) E04G4	20) E04H0
3) E04F3	9) E04F9	15) E04G5	21)
4) E04F4	10) E04G0	16) E04G6	22)
5) E04F5	11) E04G1	17) E04G7	23)
6) E04F6	12) E04G2	18) E04G8	24)

E04F1	E04H0
First Sample in SDG	Last Sample in SDG
08/30/2001	08/30/2001
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 Harry In Berg Date 8-31-01

Version 2.0

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

Case No: 29684
DAS No:
SDG No: E04F1

L

Date Shipped: 8/29/2001
Carrier Name: FedEx
Airbill: 821876980340
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]	8-29-01 1745	[signature]	8-30-01 5:15
2			
3			
4			

Sampler Signature: [signature]

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 E04F1
E04E3	Sediment/ Joe Ruiz	L/G	PCBs (21)	099276 (Ice Only) (1)	AP-SD004-32-03	S:	8/28/2001	8:30		OK
E04E4	Sediment/ Joe Ruiz	L/G	PCBs (21)	099277 (Ice Only) (1)	AP-SD004-32-04	S:	8/28/2001	8:30		
E04E5	Sediment/ Joe Ruiz	L/G	PCBs (21)	099278 (Ice Only) (1)	AP-SD004-12-01	S:	8/28/2001	8:45		
E04E6	Sediment/ Joe Ruiz	L/G	PCBs (21)	099279 (Ice Only) (1)	AP-SD004-12-02	S:	8/28/2001	8:45		
E04E7	Sediment/ Joe Ruiz	L/G	PCBs (21)	099280 (Ice Only) (1)	AP-SD004-12-03	S:	8/28/2001	8:45		8-30-01 (HS)
E04E8	Sediment/ Joe Ruiz	L/G	PCBs (21)	099281 (Ice Only) (1)	AP-SD004-12-04	S:	8/28/2001	8:45		
E04E9	Sediment/ Heidi Nemeth	L/G	PCBs (21)	099282 (Ice Only) (1)	AP-SD004-18-01	S:	8/28/2001	8:50		
E04F0	Sediment/ Heidi Nemeth	L/G	PCBs (21)	099283 (Ice Only) (1)	AP-SD004-18-02	S:	8/28/2001	8:50		
E04F1	Sediment/ Heidi Nemeth	L/G	PCBs (21)	099284 (Ice Only) (1)	AP-SD004-18-03	S:	8/28/2001	8:50	ORIGINAL IN SDG # E04D0 8-30-01 (HS)	
E04F2	Sediment/ Heidi Nemeth	L/G	PCBs (21)	099285 (Ice Only) (1)	AP-SD004-18-04	S:	8/28/2001	8:50		

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:
	E04D0, E04F1, E04H1		2.1°C TB	177852, 177853
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: 5-490998136-082901-0001

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:	29684
DAS No:	
SDG No:	E04F1

L

Date Shipped:	8/29/2001
Carrier Name:	FedEx
Airbill:	821876980340
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	8-29-01 1795		8-30-01 8:15
2			
3			
4			

For Lab Use Only

Lab Contract No:	68W29079
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 E04F1
E04F3	Sediment/ Heidi Nemeth	L/G	PCBs (21)	099286 (Ice Only) (1)	AP-SD004-18-05	S: 8/28/2001 8:50		OK
E04F4	Sediment/ Joe Ruiz	L/G	PCBs (21)	099287 (Ice Only) (1)	AP-SD004-22-01	S: 8/28/2001 9:20		
E04F5	Sediment/ Joe Ruiz	L/G	PCBs (21)	099288 (Ice Only) (1)	AP-SD004-22-02	S: 8/28/2001 9:20		
E04F6	Sediment/ Joe Ruiz	L/G	PCBs (21)	099289 (Ice Only) (1)	AP-SD004-22-03	S: 8/28/2001 9:20		8-30-01
E04F7	Sediment/ Joe Ruiz	L/G	PCBs (21)	099290 (Ice Only) (1)	AP-SD004-31-01	S: 8/28/2001 9:30		
E04F8	Sediment/ Joe Ruiz	L/G	PCBs (21)	099291 (Ice Only) (1)	AP-SD004-31-02	S: 8/28/2001 9:30		
E04F9	Sediment/ Joe Ruiz	L/G	PCBs (21)	099292 (Ice Only) (1)	AP-SD004-31-03	S: 8/28/2001 9:30		
E04G0	Sediment/ Joe Ruiz	L/G	PCBs (21)	099293 (Ice Only) (1)	AP-SD004-31-04	S: 8/28/2001 9:30		
E04G1	Sediment/ Joe Ruiz	L/G	PCBs (21)	099294 (Ice Only) (1)	AP-SD004-20-01	S: 8/28/2001 9:55		
E04G2	Sediment/ Joe Ruiz	L/G	PCBs (21)	099295 (Ice Only) (1)	AP-SD004-20-02	S: 8/28/2001 9:55		

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC: E04D0, E04F1, E04H1	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 2.1°C TB.	Chain of Custody Seal Number: 177852, 177853
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

5

R Number: 5-490998136-082901-0001

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:	29684
DAS No:	
SDG No:	E04F1

L

Date Shipped:	8/29/2001
Carrier Name:	FedEx
Airbill:	821876980340
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	8-29-01 1745		8-30-01 8:15
2			
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No:	68W29019
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 E04F1
E04G3	Sediment/ Joe Ruiz	L/G	PCBs (21)	099296 (Ice Only) (1)	AP-SD004-20-03	S:	8/28/2001	9:55		OK
E04G4	Sediment/ Joe Ruiz	L/G	PCBs (21)	099297 (Ice Only) (1)	AP-SD004-20-04	S:	8/28/2001	9:55		
E04G5	Sediment/ Joe Ruiz	L/G	PCBs (21)	099298 (Ice Only) (1)	AP-SD004-20-04DP	S:	8/28/2001	9:55		
E04G6	Sediment/ Joe Ruiz	L/G	PCBs (21)	099299 (Ice Only) (1)	AP-SD004-20-05	S:	8/28/2001	9:55		
E04G7	Sediment/ Heidi Nemeth	L/G	PCBs (21)	099300 (Ice Only) (1)	AP-SD004-24-01	S:	8/28/2001	10:25		8-30-01
E04G8	Sediment/ Heidi Nemeth	L/G	PCBs (21)	099301 (Ice Only) (1)	AP-SD004-24-02	S:	8/28/2001	10:25		
E04G9	Sediment/ Heidi Nemeth	L/G	PCBs (21)	099302 (Ice Only) (1)	AP-SD004-24-03	S:	8/28/2001	10:25		
* E04H0	Sediment/ Heidi Nemeth	L/G	PCBs (21)	099303 (Ice Only) (1)	AP-SD004-24-04	S:	8/28/2001	10:25		
E04H4	Sediment/ Joe Ruiz	L/G	PCBs (21)	099307 (Ice Only) (1)	AP-SD004-33-03DP	S:	8/28/2001	10:10		
E04H5	Sediment/ Joe Ruiz	L/G	PCBs (21)	099308 (Ice Only) (1)	AP-SD004-33-04	S:	8/28/2001	10:10		

* SDG Final Sample.

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC: E04D0, E04F1, E04H1	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 2.1° T.B.	Chain of Custody Seal Number: 177852, 177853
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: 5-490998136-082901-0001

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.: 29684 SDG No.: E04F1

GC Column(1): PEST I ID: 0.32(mm) GC Column(2): PEST II ID: 0.32(mm)

	CLIENT SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	TOT OUT
01	PBLKSA	77	82	69	72	0
02	ELCS1	68	73	75	79	0
03	ELCS2	62	66	73	77	0
04	E04F1	82	94	90	115	0
05	E04F1MS	79	86	61	73	0
06	E04F1MSD	82	91	77	102	0
07	E04F2	114	122	96	103	0
08	E04F3	81	87	80	101	0
09	E04F4	78	84	53	69	0
10	E04F5	69	74	55	76	0
11	E04F6	71	76	75	92	0
12	E04F7	90	98	86	96	0
13	E04F8	73	80	58	83	0
14	E04F9	71	78	64	107	0
15	E04G0	84	91	89	98	0
16	E04G1	75	77	62	74	0
17	E04G2	72	78	65	93	0
18	E04G3	73	76	59	78	0
19	E04G4	79	84	83	98	0
20	E04G5	80	86	75	91	0
21	E04G6	75	80	69	89	0
22	E04G7	73	78	60	75	0
23	E04G8	79	82	72	84	0
24	E04G9	80	88	56	78	0
25	E04H0	61	65	43	56	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

3H

SOIL AROCLOR LABORATORY CONTROL SPIKE/ DUPLICATE RECOVERY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

LCS Sample NO.: ELCS1

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Aroclor-1254	133	93.3	70	29-135

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1254	133	87.5	66	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.: 29684 SDG No.: E04F1

Matrix Spike - Client Sample NO.: E04F1

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Aroclor-1254	318	0	168	53	29-135

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1254	323	182	56	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.: 29684 SDG No.: E04F1

Lab Sample ID: BL0908SA Lab File ID: 7_092821

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

Sulfur Cleanup: (Y/N) Y Date Extracted: 09/08/01

Date Analyzed (1): 09/28/01 Date Analyzed (2): 09/28/01

Time Analyzed (1): 1532 Time Analyzed (2): 1532

Instrument ID (1): HP_07A Instrument ID (2): HP_07B

GC Column (1): PEST I ID: 0.32(mm) GC Column (2): PEST II 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	LC0908SA	09/28/01	09/28/01
02	ELCS2	LD0908SA	09/28/01	09/28/01
03	E04F1	47452.01	09/28/01	09/28/01
04	E04F1MS	47452.02MS	09/28/01	09/28/01
05	E04F1MSD	47452.03MSD	09/28/01	09/28/01
06	E04F2	47452.04	09/28/01	09/28/01
07	E04F3	47452.05	09/28/01	09/28/01
08	E04F4	47452.06	09/28/01	09/28/01
09	E04F5	47452.07	09/28/01	09/28/01
10	E04F6	47452.08	09/28/01	09/28/01
11	E04F7	47452.09	09/28/01	09/28/01
12	E04F8	47452.10	09/28/01	09/28/01
13	E04F9	47452.11	09/28/01	09/28/01
14	E04G0	47452.12	09/29/01	09/29/01
15	E04G1	47452.13	09/29/01	09/29/01
16	E04G2	47452.14	09/29/01	09/29/01
17	E04G3	47452.15	09/29/01	09/29/01
18	E04G4	47452.16	09/29/01	09/29/01
19	E04G5	47452.17	09/29/01	09/29/01
20	E04G6	47452.18	09/29/01	09/29/01
21	E04G7	47452.19	09/29/01	09/29/01
22	E04G8	47452.20	09/29/01	09/29/01
23	E04G9	47452.21	09/29/01	09/29/01
24	E04H0	47452.22	09/29/01	09/29/01
25				
26				

Comments:

page 1 of 1

HYDROGEN USED AS CARRIER GAS FOR SAMPLE ANALYSES

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E04F1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Matrix: (soil/water) SOIL Lab Sample ID: 47452.01

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

% Moisture: 59 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/28/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

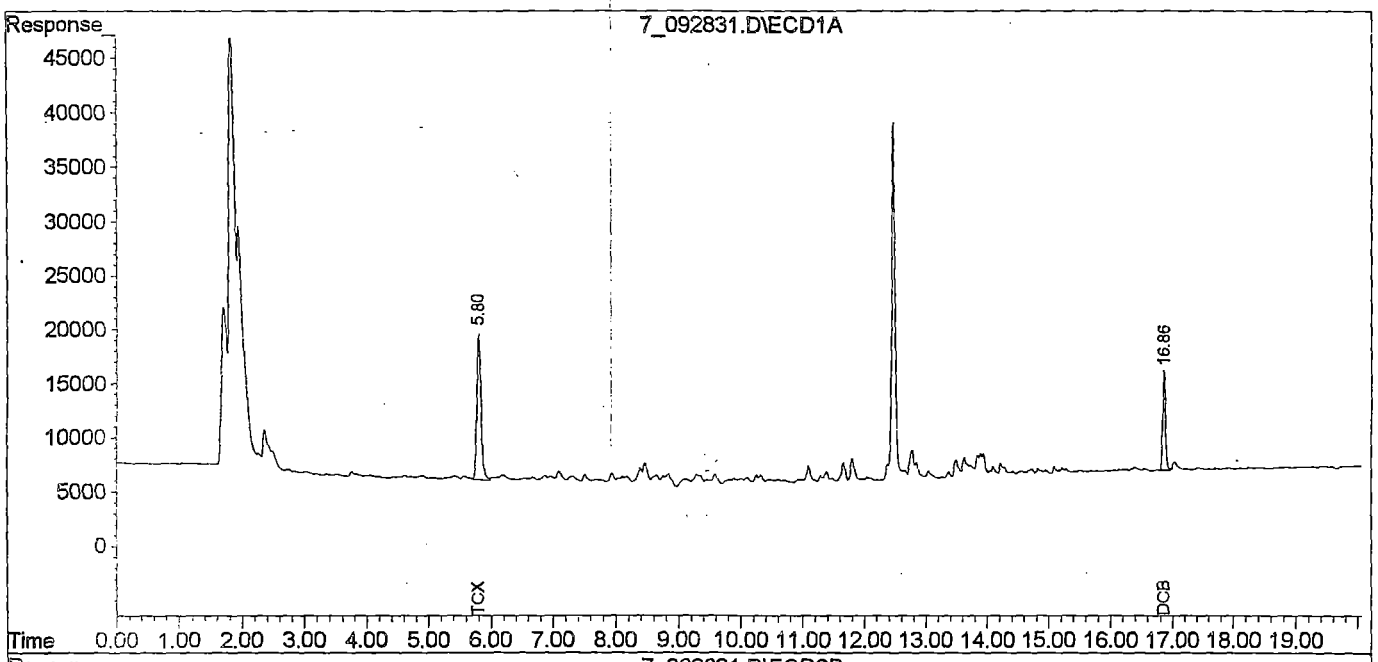
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	79	U
11104-28-2	Aroclor-1221	79	U
11141-16-5	Aroclor-1232	79	U
53469-21-9	Aroclor-1242	79	U
12672-29-6	Aroclor-1248	79	U
11097-69-1	Aroclor-1254	79	U
11096-82-5	Aroclor-1260	79	U
	Surrogate amount spiked	16.00	

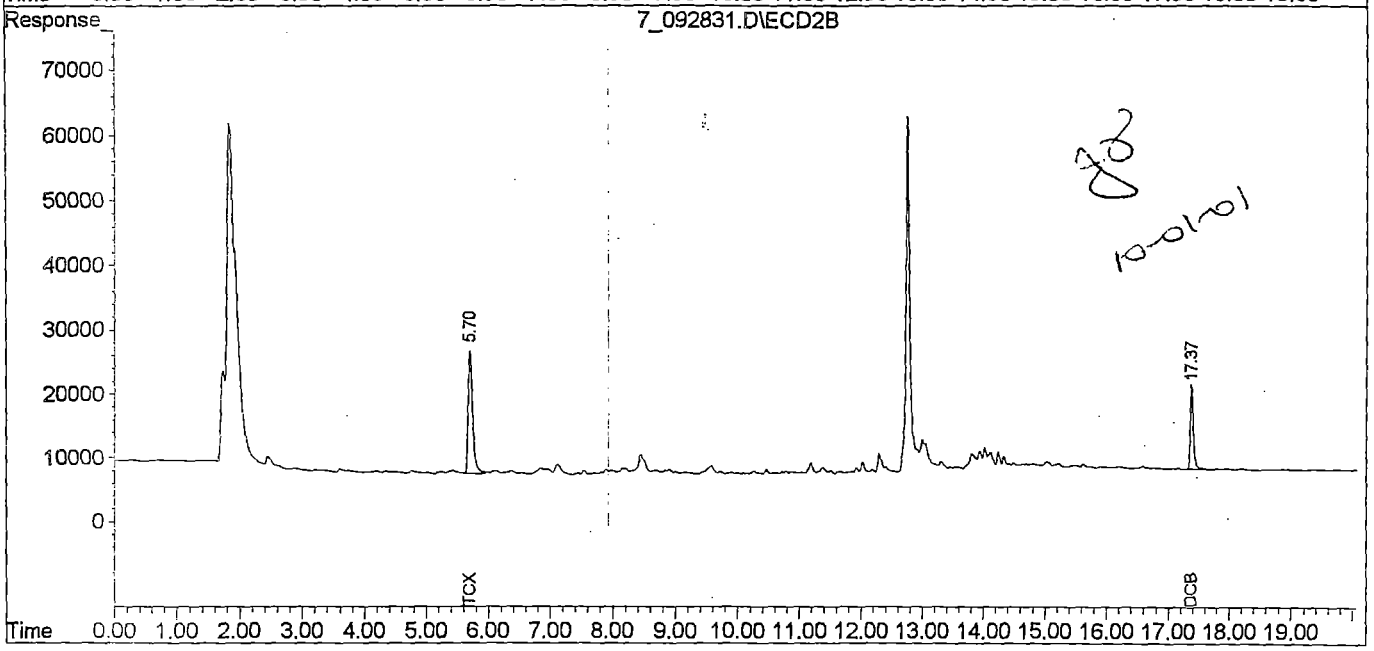
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092831.D\ECD1A.CH Vial: 31
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092831.D\ECD2B.CH
Acq On : 28 Sep 2001 19:32 Operator: SA
Sample : 47452.01 *E04F1 * Inst : HP_07
Misc : *EPA*30.5G/5.0ML*59 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:02 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





10-01-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092831.D\ECD1A.CH Vial: 31
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092831.D\ECD2B.CH
Acq On : 28 Sep 2001 19:32 Operator: SA
Sample : 47452.01 *E04F1 * Inst : HP_07
Misc : *EPA*30.5G/5.0ML*59 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:02 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.80	5.70f	633288	947790	13.0	15.1	
	Spiked Amount 15.994			Recovery	=	81.28%	94.41%	
22)	S DCB	16.86f	17.37f	289823	475614	14.3	18.4	#
	Spiked Amount 15.994			Recovery	=	89.41%	115.05%	
	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.

E04F2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Matrix: (soil/water) SOIL Lab Sample ID: 47452.04

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

% Moisture: 25 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/28/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

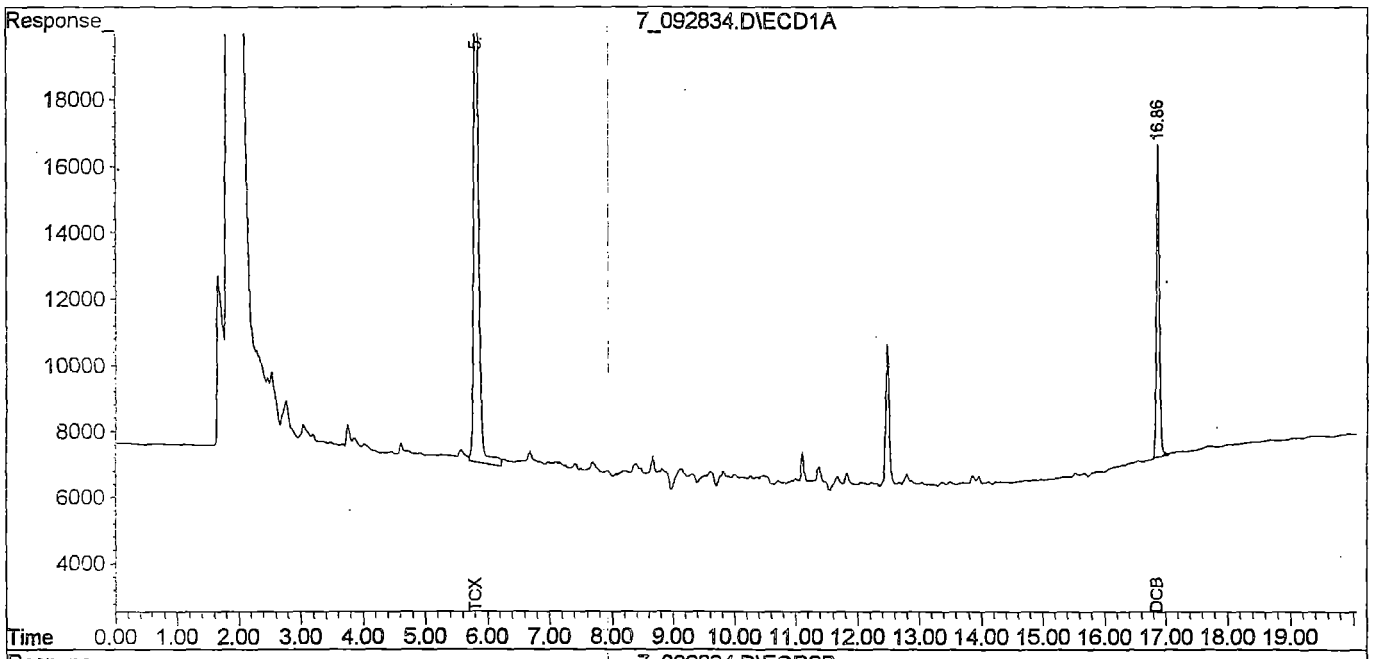
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	43	U
11104-28-2	Aroclor-1221	43	U
11141-16-5	Aroclor-1232	43	U
53469-21-9	Aroclor-1242	43	U
12672-29-6	Aroclor-1248	43	U
11097-69-1	Aroclor-1254	43	U
11096-82-5	Aroclor-1260	43	U
	Surrogate amount spiked	8.60	

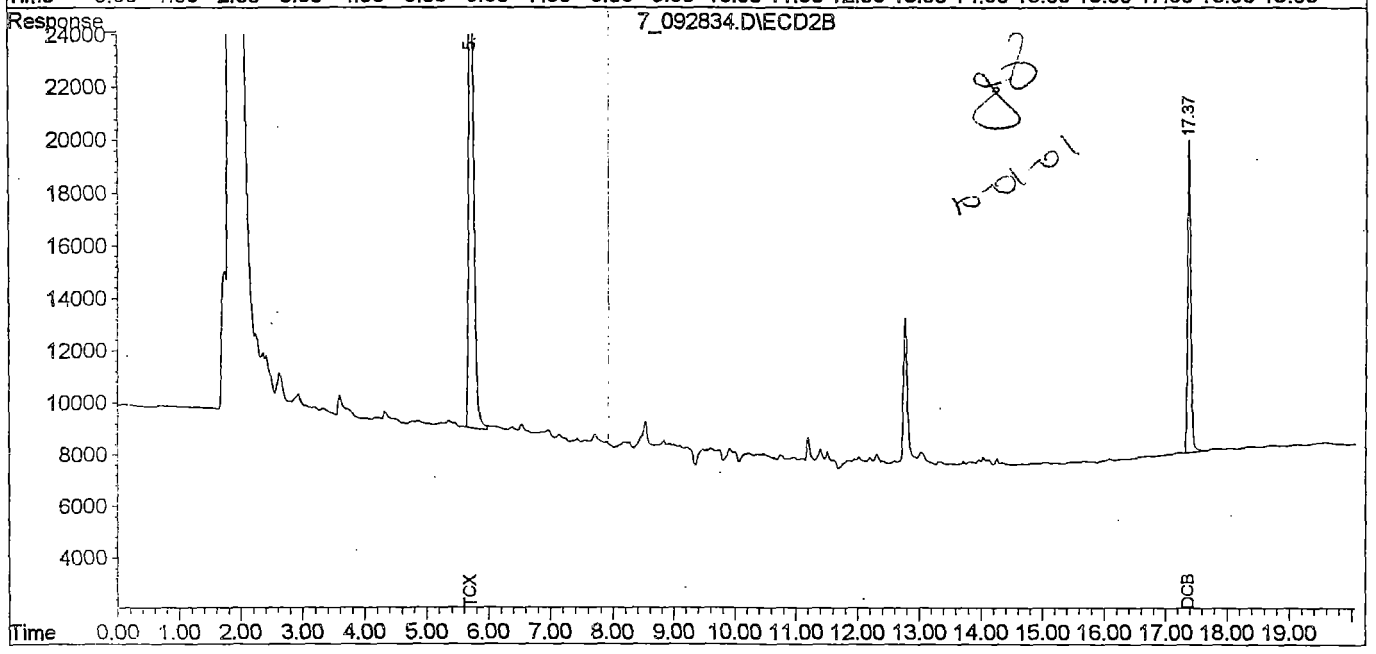
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092834.D\ECD1A.CH Vial: 34
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092834.D\ECD2B.CH
Acq On : 28 Sep 2001 20:44 Operator: SA
Sample : 47452.04 *E04F2 * Inst : HP_07
Misc : *EPA*31G/5.0ML*25 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:04 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





10-01-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092834.D\ECD1A.CH Vial: 34
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092834.D\ECD2B.CH
Acq On : 28 Sep 2001 20:44 Operator: SA
Sample : 47452.04 *E04F2 * Inst : HP_07
Misc : *EPA*31G/5.0ML*25 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:04 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.81	5.71	882825	1223618	9.777	10.5
	Spiked Amount 8.602			Recovery	=	113.66%	122.06%
22)	S DCB	16.86f	17.38f	309212	426714	8.217	8.893
	Spiked Amount 8.602			Recovery	=	95.52%	103.38%

Target Compounds:

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E04F3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Matrix: (soil/water) SOIL Lab Sample ID: 47452.05

Sample wt/vol: 30.6 (g/mL) G Lab File ID:_____

% Moisture: 61 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/28/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

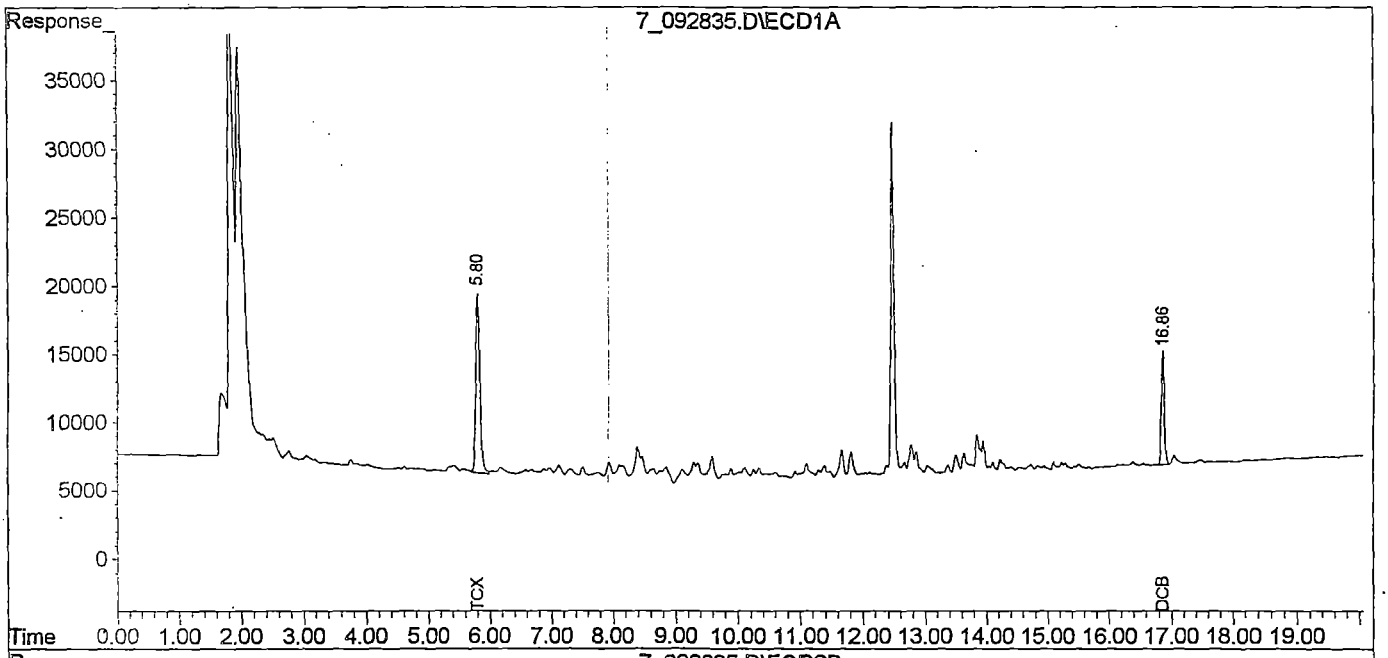
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	83	U
11104-28-2	Aroclor-1221	83	U
11141-16-5	Aroclor-1232	83	U
53469-21-9	Aroclor-1242	83	U
12672-29-6	Aroclor-1248	83	U
11097-69-1	Aroclor-1254	83	U
11096-82-5	Aroclor-1260	83	U
	Surrogate amount spiked	16.76	

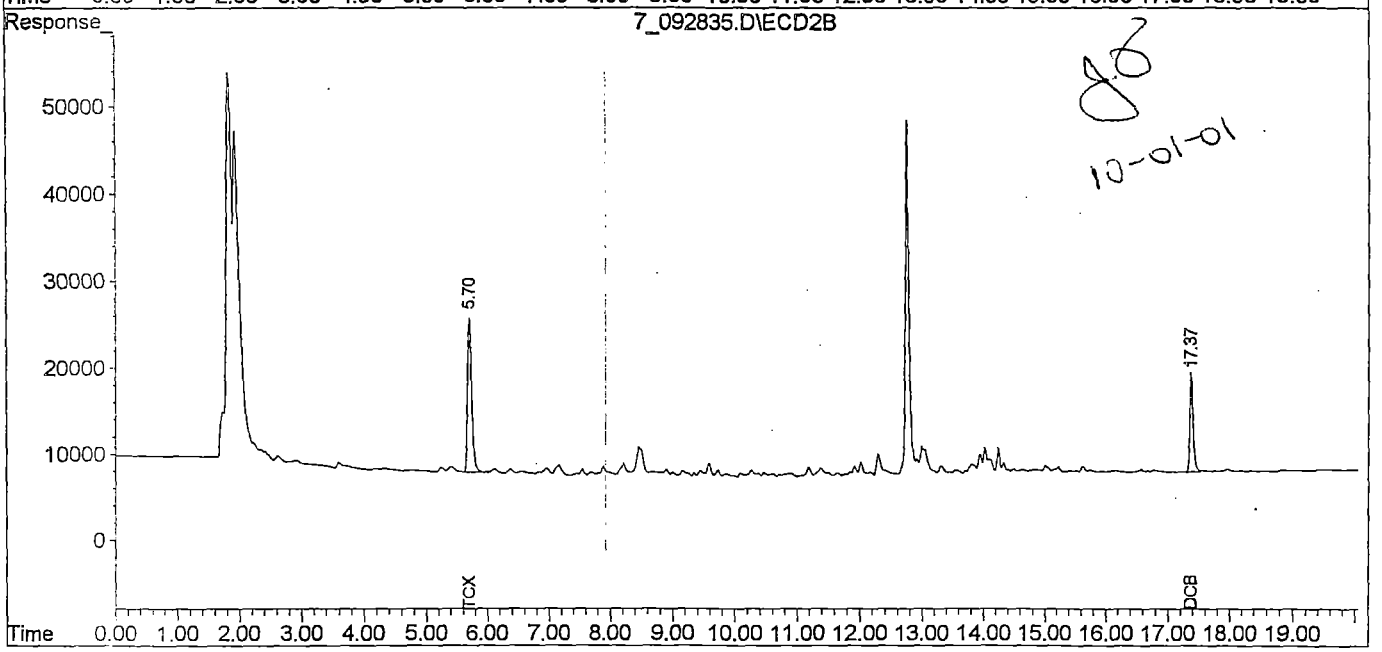
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092835.D\ECD1A.CH Vial: 35
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092835.D\ECD2B.CH
Acq On : 28 Sep 2001 21:08 Operator: SA
Sample : 47452.05 *E04F3 * Inst : HP_07
Misc : *EPA*30.6G/5.0ML*61 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:05 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





10-01-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092835.D\ECD1A.CH Vial: 35
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092835.D\ECD2B.CH
Acq On : 28 Sep 2001 21:08 Operator: SA
Sample : 47452.05 *E04F3 * Inst : HP_07
Misc : *EPA*30.6G/5.0ML*61 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:05 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.80	5.70f	629357	869574	13.6	14.5	
	Spiked Amount 16.759			Recovery	=	81.15%	86.52%	
22)	S DCB	16.86f	17.37f	260411	415957	13.5	16.9	#
	Spiked Amount 16.759			Recovery	=	80.55%	100.84%	

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.

E04F4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Matrix: (soil/water) SOIL Lab Sample ID: 47452.06

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

% Moisture: 59 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/28/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

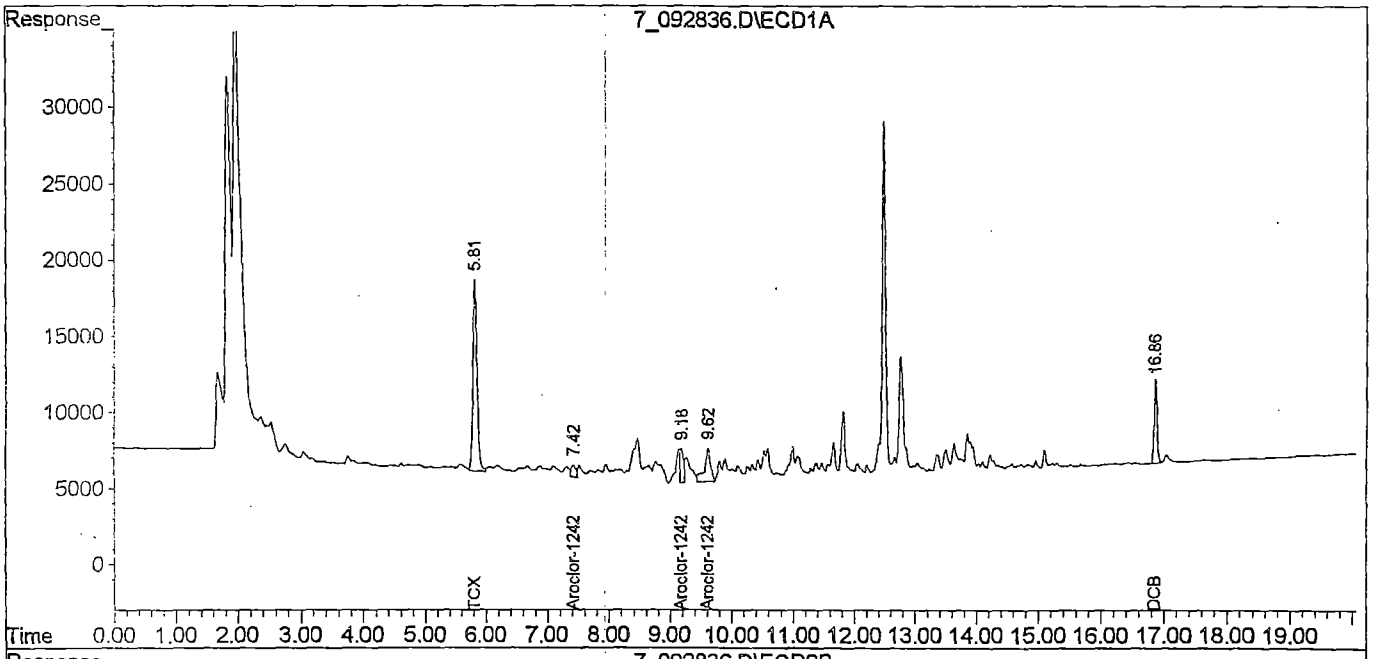
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	80	U
11104-28-2	Aroclor-1221	80	U
11141-16-5	Aroclor-1232	80	U
53469-21-9	Aroclor-1242	40	JP
12672-29-6	Aroclor-1248	80	U
11097-69-1	Aroclor-1254	80	U
11096-82-5	Aroclor-1260	80	U
	Surrogate amount spiked	16.27	

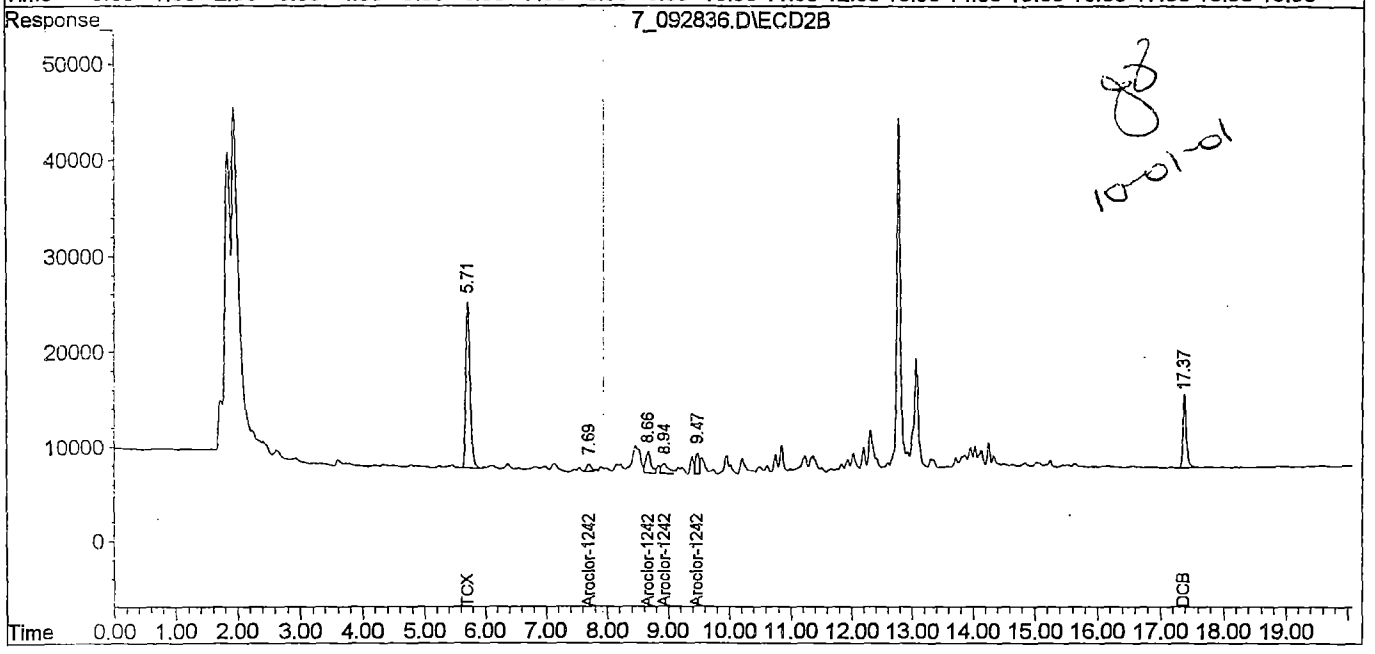
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092836.D\ECD1A.CH Vial: 36
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092836.D\ECD2B.CH
Acq On : 28 Sep 2001 21:32 Operator: SA
Sample : 47452.06 *E04F4 * Inst : HP_07
Misc : *EPA*30G/5.0ML*59 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:06 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





10-01-01

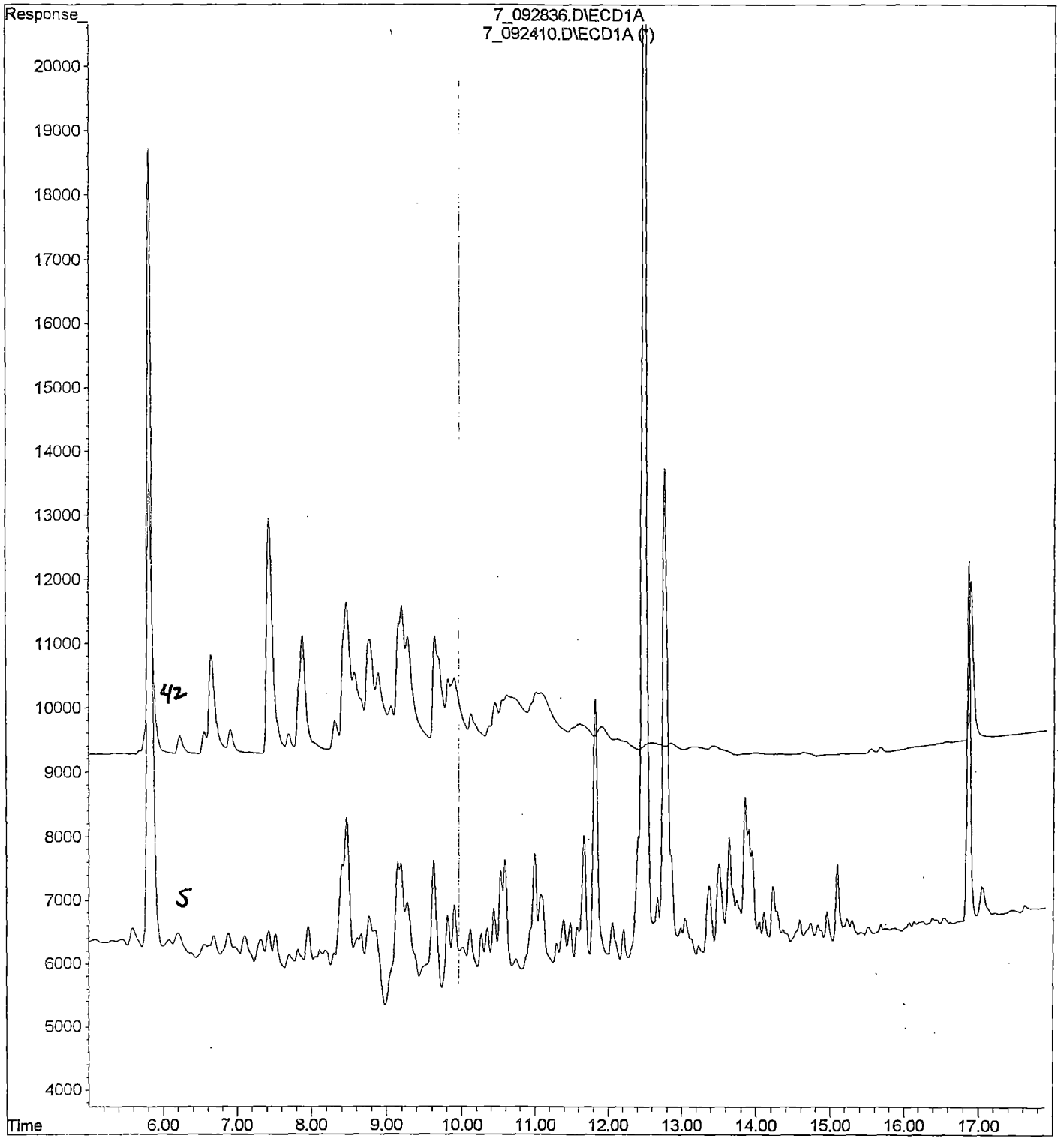
Quantitation Report

```
Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092836.D\ECD1A.CH Vial: 36
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092836.D\ECD2B.CH
Acq On    : 28 Sep 2001  21:32                        Operator: SA
Sample    : 47452.06  *E04F4  *                       Inst    : HP_07
Misc      : *EPA*30G/5.0ML*59                         Dilution: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e
Quant Time: Sep 29  8:06 2001  Quant Results File: XPCBI24.RES

Method       : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path   : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update  : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj.      : 0.5uL
Signal #1 Phase : PEST I            Signal #2 Phase: PEST II
Signal #1 Info  : .32 mm            Signal #2 Info : .32 mm
Signal #1 Inst  : HP_07A            Signal #2 Inst : HP_07B
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.81	5.71	607345	847136	12.7	13.7	
	Spiked Amount 16.260			Recovery	=	78.11%	84.26%	
22)	S DCB	16.86f	17.38f	171986	286368	8.639	11.3	#
	Spiked Amount 16.260			Recovery	=	53.13%	69.50%	
	Target Compounds:							
7)	L4 Aroclor-1242	7.42	7.70	38521	37530	16.3	11.6	#
8)	L4 Aroclor-1242 {2}	0.00	8.66f	0	141297	N.D. d	51.5	#
9)	L4 Aroclor-1242 {3}	0.00	8.94f	0	86691	N.D. d	35.7	#
10)	L4 Aroclor-1242 {4}	9.18	9.47	83803	91394	47.2	60.1	#
11)	L4 Aroclor-1242 {5}	9.62	0.00	152968	0	91.7	N.D. d	#
	Sum Aroclor-1242			275293	356911	155.2	158.9	
	Average Aroclor-1242					51.739	39.725	

(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\7\DATA\09_28_01\7_092836.D
Operator : SA
Acquired : 28 Sep 2001 21:32 using AcqMethod OLM03.M
Instrument : HP_07
Sample Name: 47452.06 *E04F4 *
Misc Info : *EPA*30G/5.0ML*59
Vial Number: 36



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E04F5

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Matrix: (soil/water) SOIL Lab Sample ID: 47452.07

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

% Moisture: 57 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/28/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

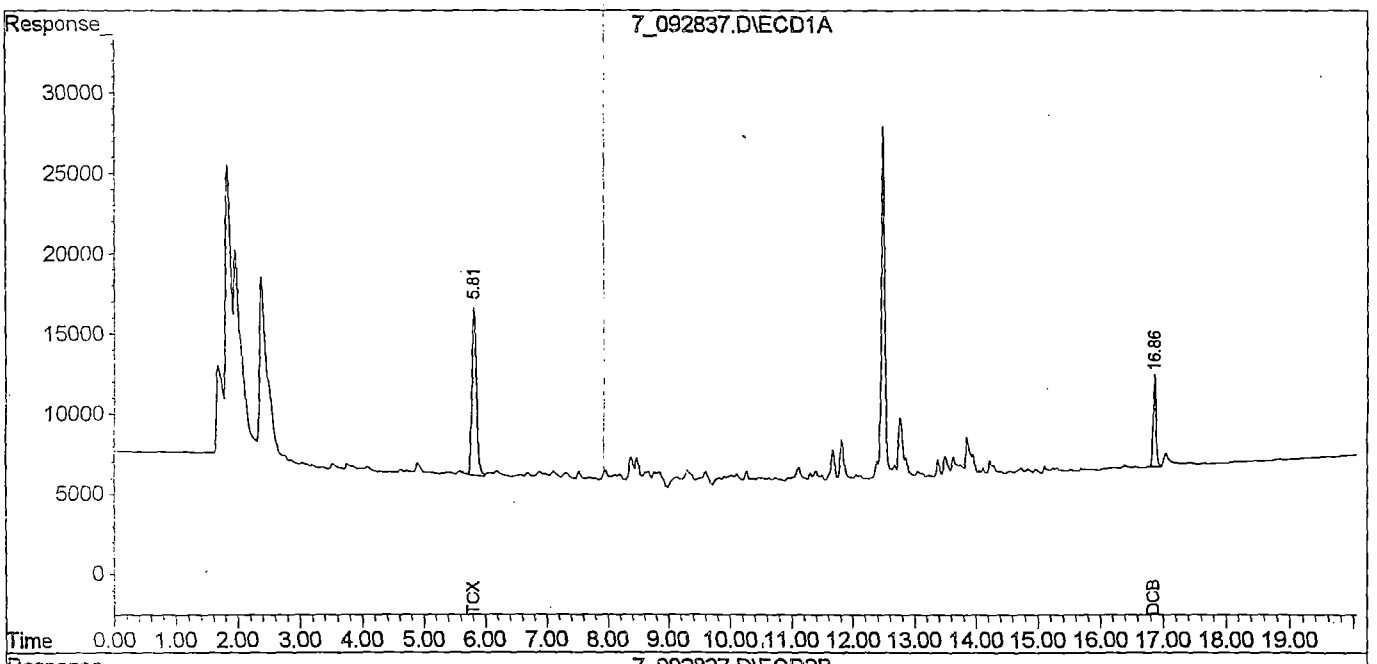
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	76	U
11104-28-2	Aroclor-1221	76	U
11141-16-5	Aroclor-1232	76	U
53469-21-9	Aroclor-1242	76	U
12672-29-6	Aroclor-1248	76	U
11097-69-1	Aroclor-1254	76	U
11096-82-5	Aroclor-1260	76	U
	Surrogate amount spiked	15.30	

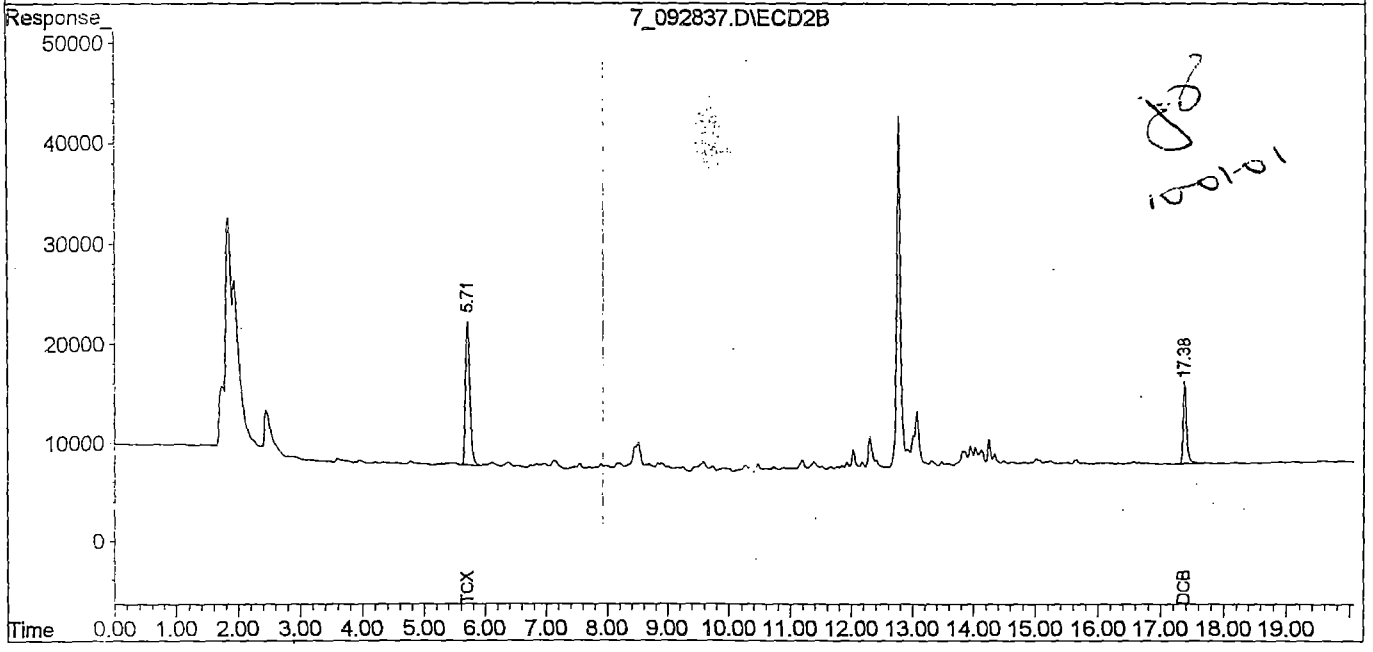
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092837.D\ECD1A.CH Vial: 37
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092837.D\ECD2B.CH
Acq On : 28 Sep 2001 21:56 Operator: SA
Sample : 47452.07 *E04F5 * Inst : HP_07
Misc : *EPA*30.4G/5.0ML*57 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:08 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





10-01-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092837.D\ECD1A.CH Vial: 37
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092837.D\ECD2B.CH
Acq On : 28 Sep 2001 21:56 Operator: SA
Sample : 47452.07 *E04F5 * Inst : HP_07
Misc : *EPA*30.4G/5.0ML*57 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:08 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.81	5.72	534728	740152	10.5	11.3	
	Spiked Amount 15.300			Recovery	=	68.63%	73.86%	
22)	S DCB	16.86	17.38f	177345	312833	8.382	11.6	#
	Spiked Amount 15.300			Recovery	=	54.78%	75.82%	
	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.

E04F6

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Matrix: (soil/water) SOIL Lab Sample ID: 47452.08

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

% Moisture: 45 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/28/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

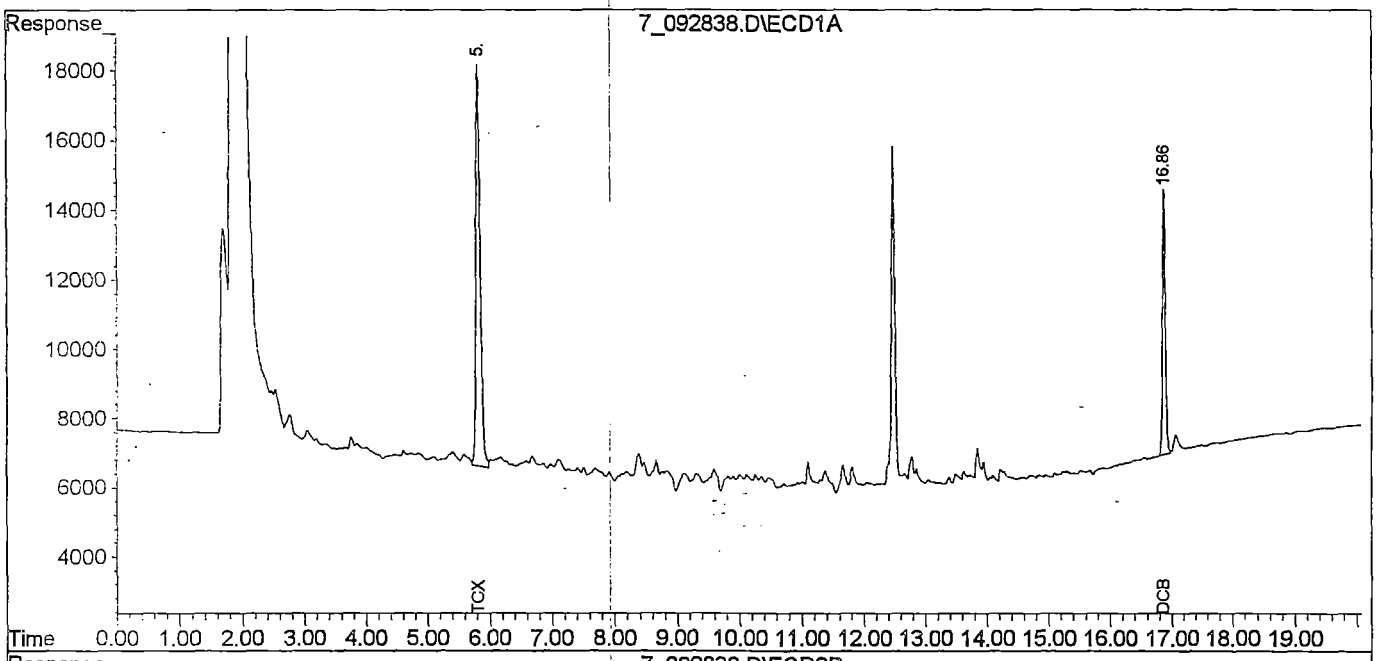
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	60	U
11104-28-2	Aroclor-1221	60	U
11141-16-5	Aroclor-1232	60	U
53469-21-9	Aroclor-1242	60	U
12672-29-6	Aroclor-1248	60	U
11097-69-1	Aroclor-1254	60	U
11096-82-5	Aroclor-1260	60	U
	Surrogate amount spiked	12.04	

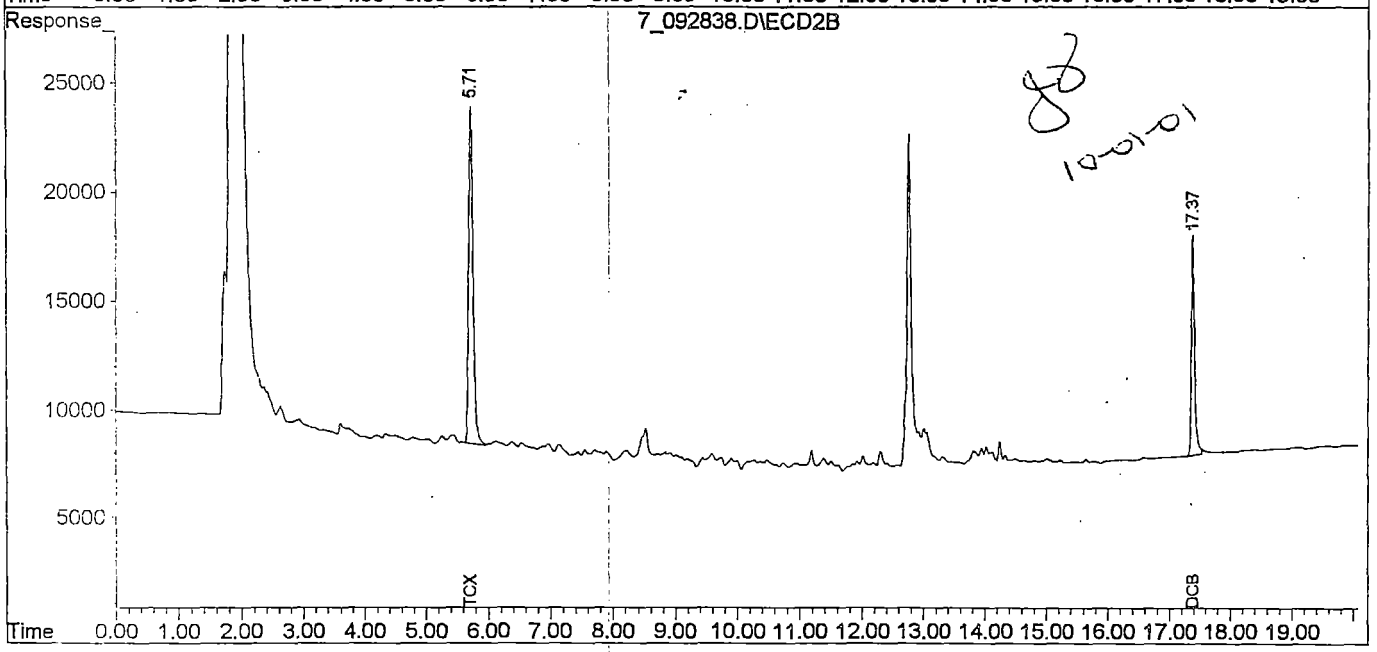
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092838.D\ECD1A.CH Vial: 38
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092838.D\ECD2B.CH
Acq On : 28 Sep 2001 22:20 Operator: SA
Sample : 47452.08 *E04F6 * Inst : HP_07
Misc : *EPA*30.2G/5.0ML*45 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:09 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





10-01-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092838.D\ECD1A.CH Vial: 38
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092838.D\ECD2B.CH
Acq On : 28 Sep 2001 22:20 Operator: SA
Sample : 47452.08 *E04F6 * Inst : HP_07
Misc : *EPA*30.2G/5.0ML*45 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:09 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.81	5.71	553255	760309	8.577	9.111
	Spiked Amount 12.041			Recovery	=	71.23%	75.67%
22)	S DCB	16.86f	17.37f	242811	380103	9.032	11.1m
	Spiked Amount 12.041			Recovery	=	75.01%	92.19%

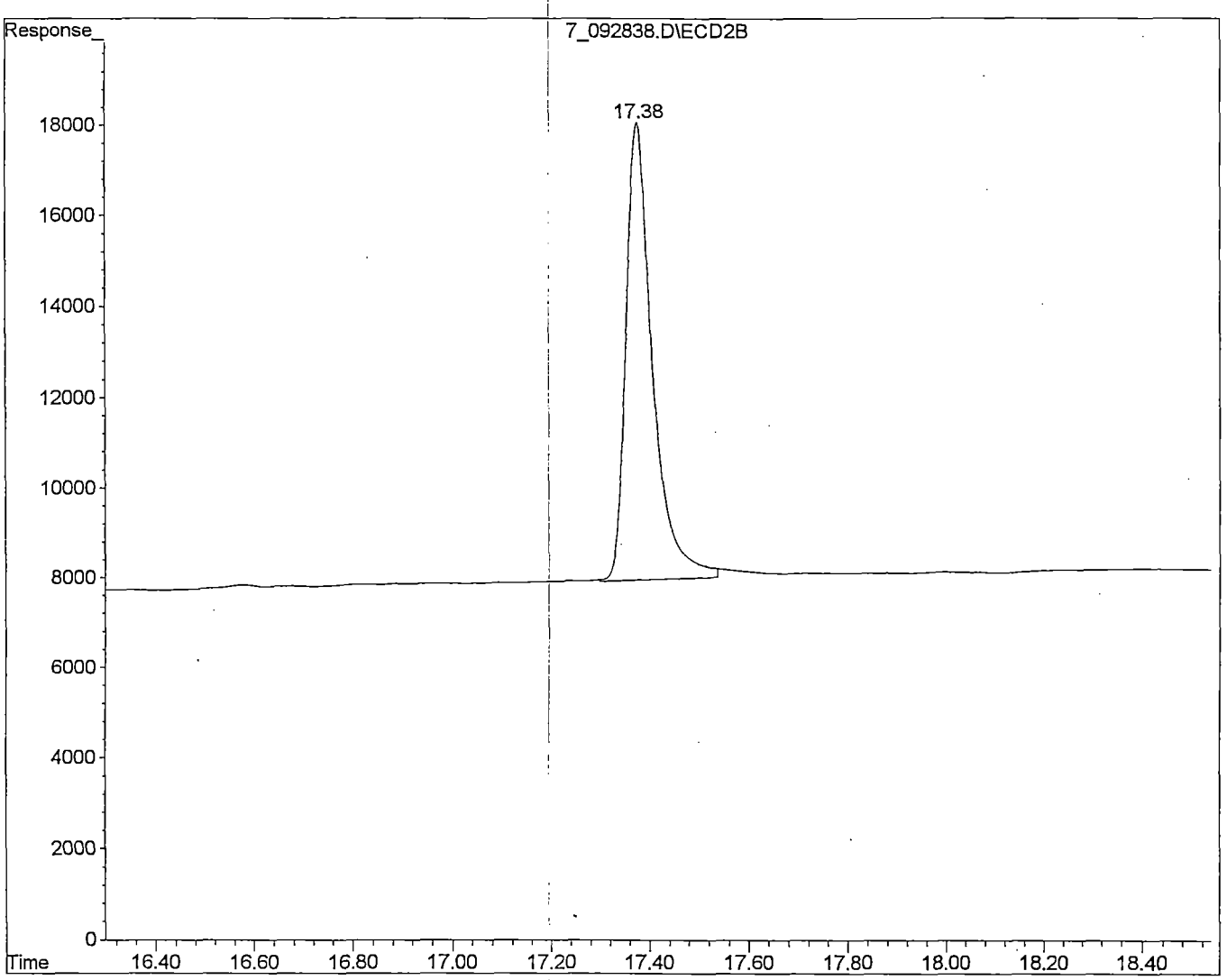
09-28-1

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_28_01\7_092838.D
Date Acquired: 28 Sep 2001 22:20
Inst: HP_07 Operator ID: SA
Name: 47452.08 *E04F6 *
Misc: *EPA*30.2G/5.0ML*45
Method: F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 29 8:09 2001 Quant Results File: XPCBI24.RES



SA 9·29·01

DCB #2 17.37min area: 380103 m

Integration Time Range: 17.30 - 17.54

F:\HPCHEM\HP\7\DATA\09_28_01\7_092838.D
Report generated: Sat Sep 29 08:43:42 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E04F7

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Matrix: (soil/water) SOIL Lab Sample ID: 47452.09

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

% Moisture: 13 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/28/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

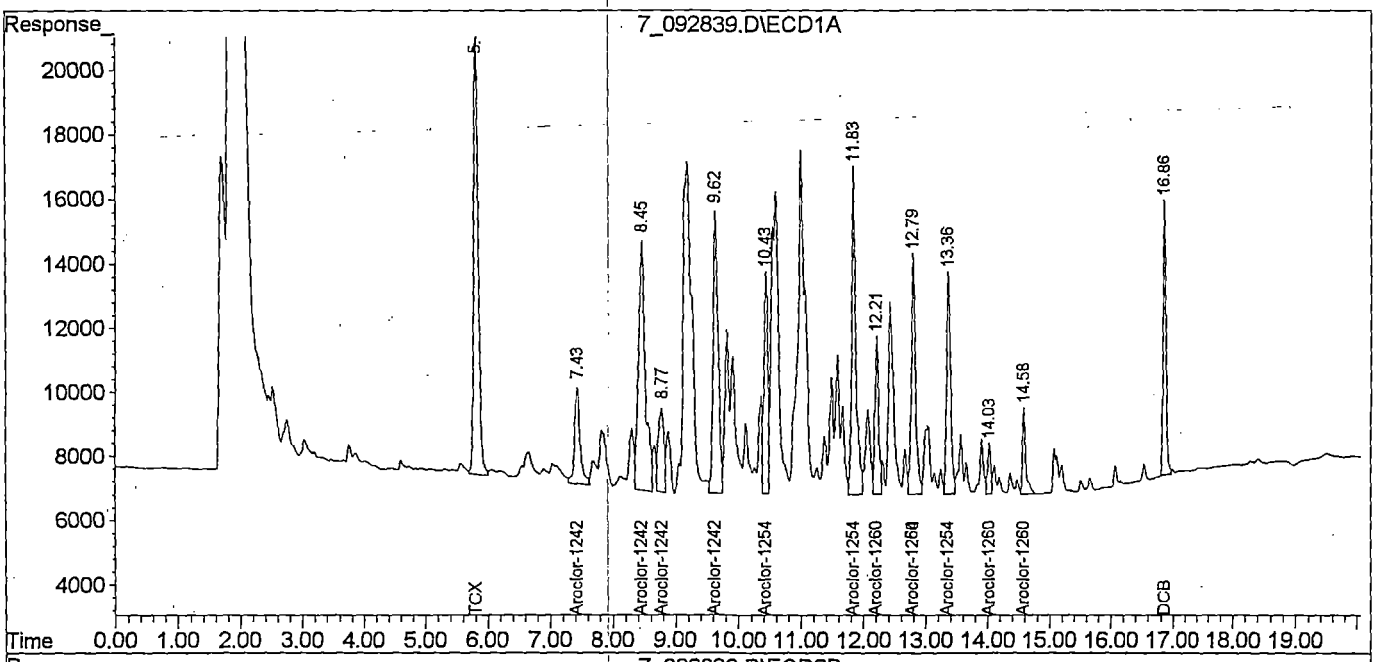
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	82	
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	44	P
11096-82-5	Aroclor-1260	23	JP
Surrogate amount spiked		7.54	

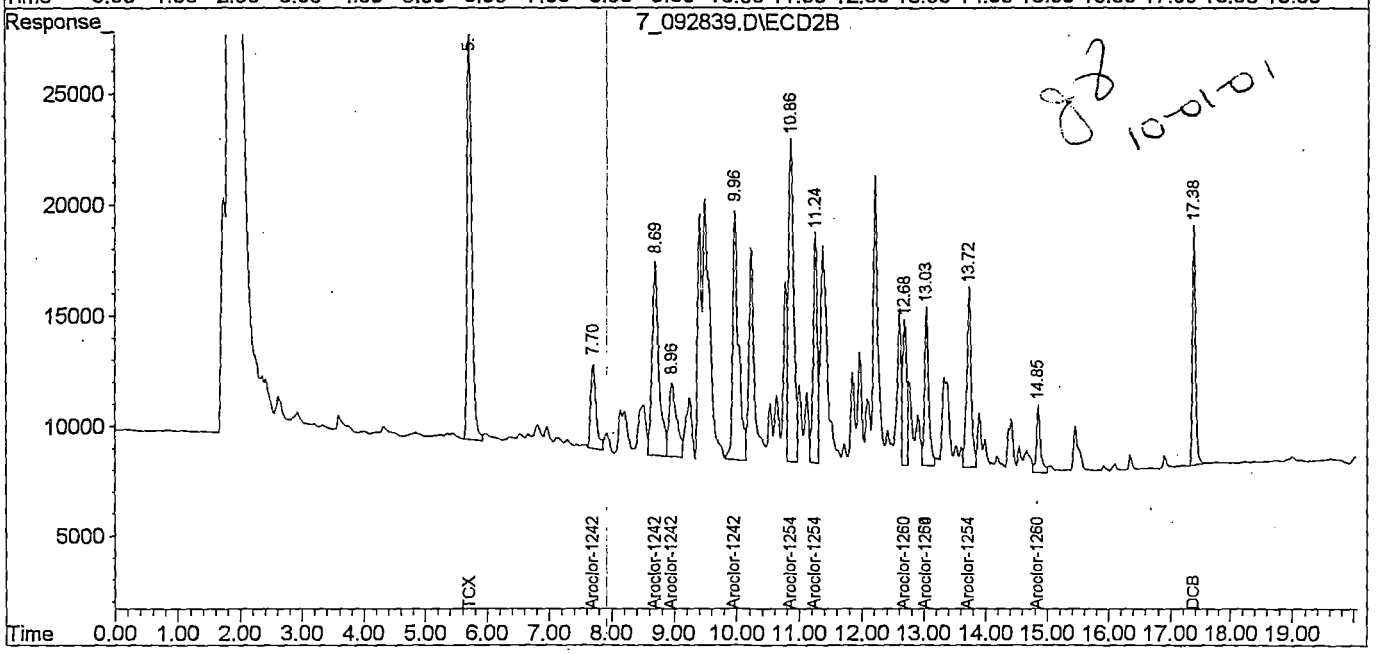
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092839.D\ECD1A.CH Vial: 39
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092839.D\ECD2B.CH
Acq On : 28 Sep 2001 22:44 Operator: SA
Sample : 47452.09 *E04F7 * Inst : HP_07
Misc : *EPA*30.5G/5.0ML*13 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:11 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





8 10-01-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092839.D\ECD1A.CH Vial: 39
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092839.D\ECD2B.CH
Acq On : 28 Sep 2001 22:44 Operator: SA
Sample : 47452.09 *E04F7 * Inst : HP_07
Misc : *EPA*30.5G/5.0ML*13 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:11 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

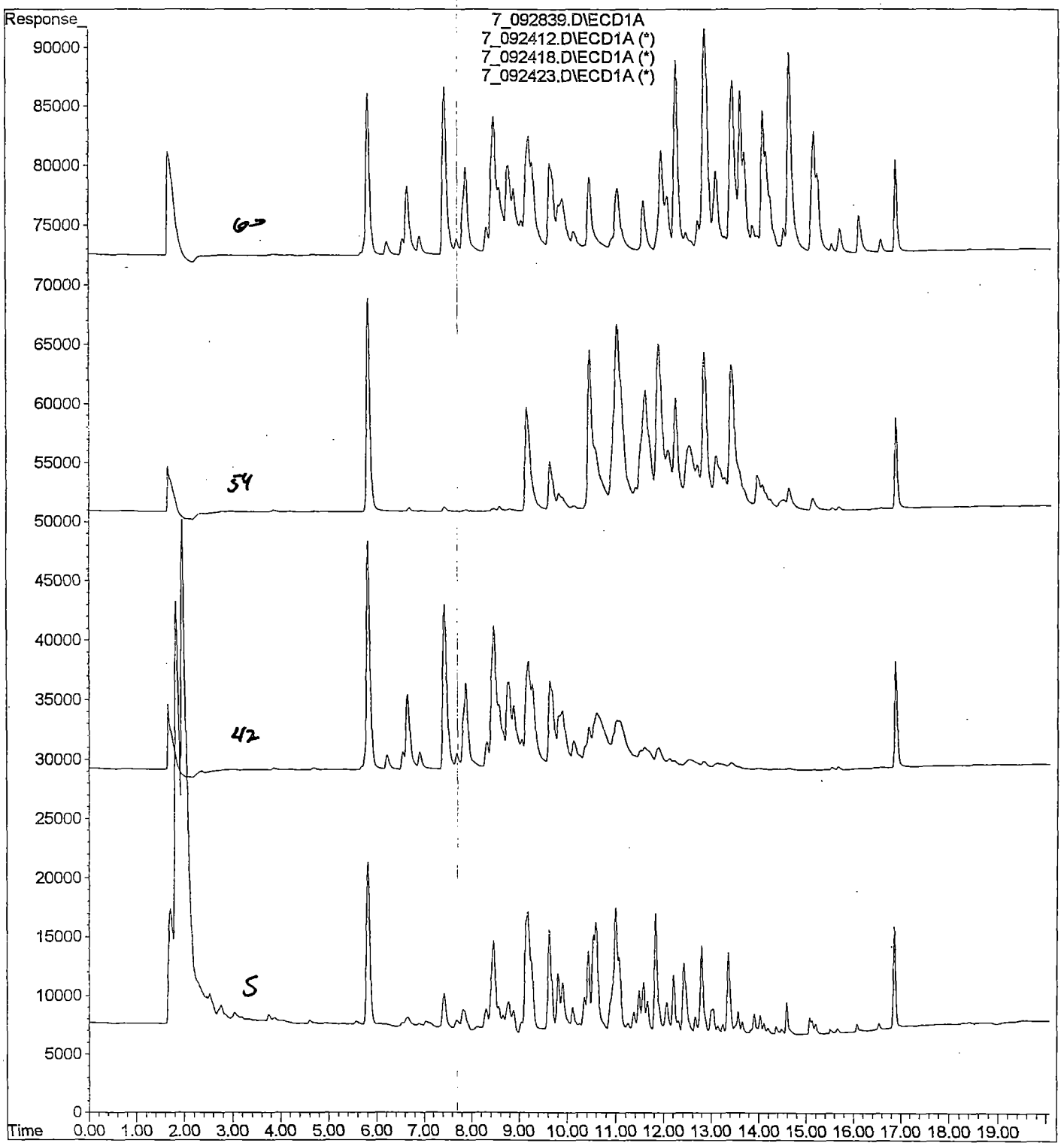
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.81	5.71	698882	988610	6.782	7.416	
	Spiked Amount 7.537			Recovery	=	89.98%	98.39%	
22)	S DCB	16.86	17.38	279188	394734	6.500	7.208	
	Spiked Amount 7.537			Recovery	=	86.24%	95.63%	
	Target Compounds:							
7)	L4 Aroclor-1242	7.43	7.70	188229	237208	37.0	34.0	
8)	L4 Aroclor-1242 {2}	8.46	8.69	582251	654450	111.4	110.7	
9)	L4 Aroclor-1242 {3}	8.77	8.96	165436	290364	52.6	55.4	
11)	L4 Aroclor-1242 {5}	9.62	9.96	478784	701694	133.0	128.6	
	Sum Aroclor-1242			1414699	1883716	334.1	328.7	
	Average Aroclor-1242					83.525	82.163	
12)	L6 Aroclor-1254	10.43	10.86	282732	882071	31.5	101.4	#
13)	L6 Aroclor-1254 {2}	0.00	11.24f	0	455139	N.D. d	62.1	#
14)	L6 Aroclor-1254 {3}	11.83f	0.00	471877	0	55.7	N.D.	#
15)	L6 Aroclor-1254 {4}	12.79f	13.03f	357121	344702	53.4	49.5	
16)	L6 Aroclor-1254 {5}	13.36f	13.72f	316251	407175	35.0	32.2	
	Sum Aroclor-1254			1427981	2089087	175.5	245.3	
	Average Aroclor-1254					43.871	61.316	
17)	L7 Aroclor-1260	12.21f	12.68f	198393	292575	30.3	30.4	
18)	L7 Aroclor-1260 {2}	12.79f	13.03f	357121	333722	34.8	39.0m	
20)	L7 Aroclor-1260 {4}	14.03f	14.84f	56195	143133	15.8	29.2m	#
21)	L7 Aroclor-1260 {5}	14.58f	0.00	100429	0	12.9	N.D.	#
	Sum Aroclor-1260			712139	769430	35.3	37.2	
	Average Aroclor-1260					23.436	32.871	

SA.24.1

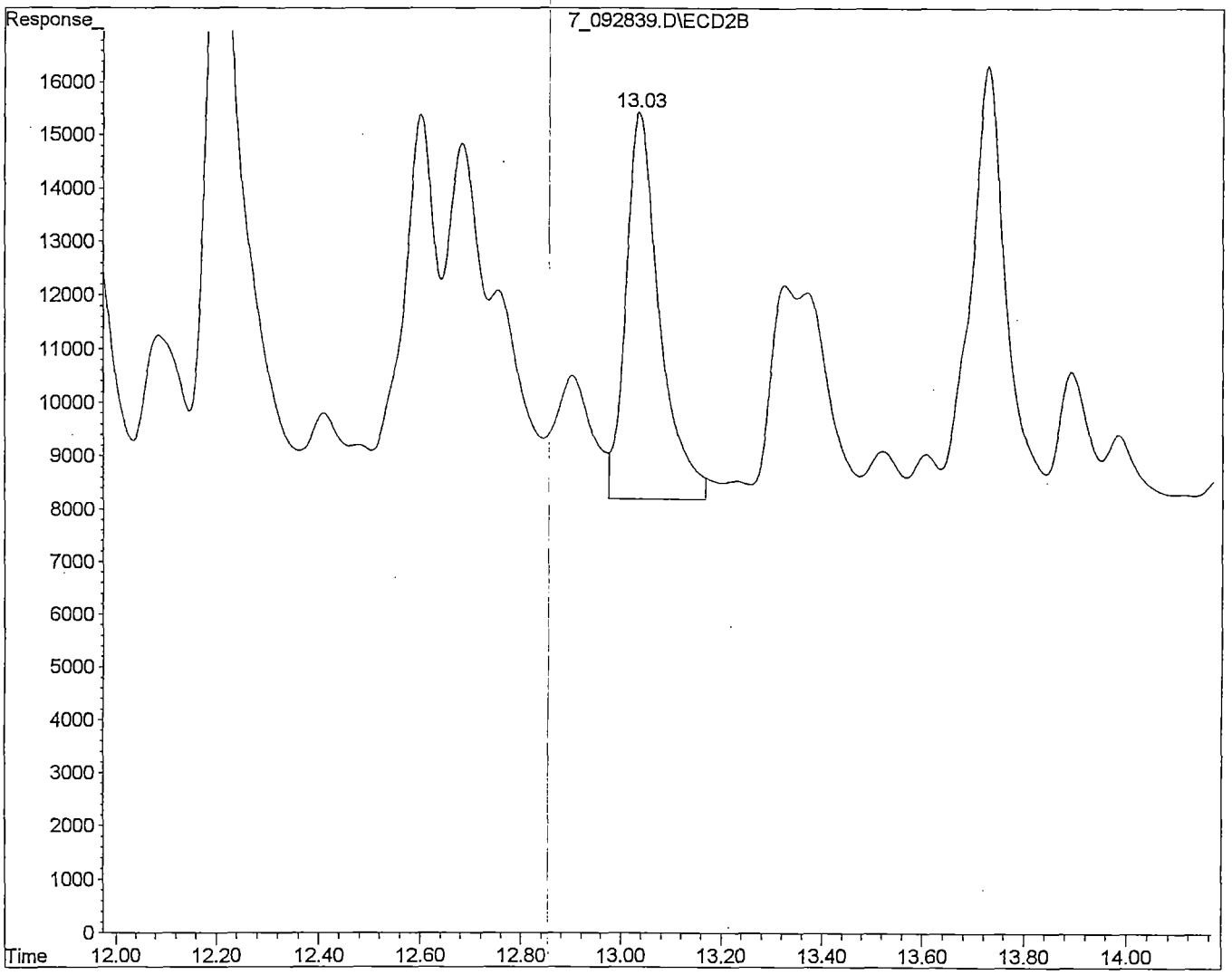
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

File : F:\HPCHEM\HP\7\DATA\09_28_01\7_092839.D
Operator : SA
Acquired : 28 Sep 2001 22:44 using AcqMethod OLM03.M
Instrument : HP_07
Sample Name: 47452.09 *E04F7 *
Misc Info : *EPA*30.5G/5.0ML*13
Vial Number: 39



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_28_01\7_092839.D
Date Acquired: 28 Sep 2001 22:44
Inst: HP_07 Operator ID: SA
Name: 47452.09 *E04F7 *
Misc: *EPA*30.5G/5.0ML*13
Method: F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 29 8:11 2001 Quant Results File: XPCBI24.RES



CA 9-29-01

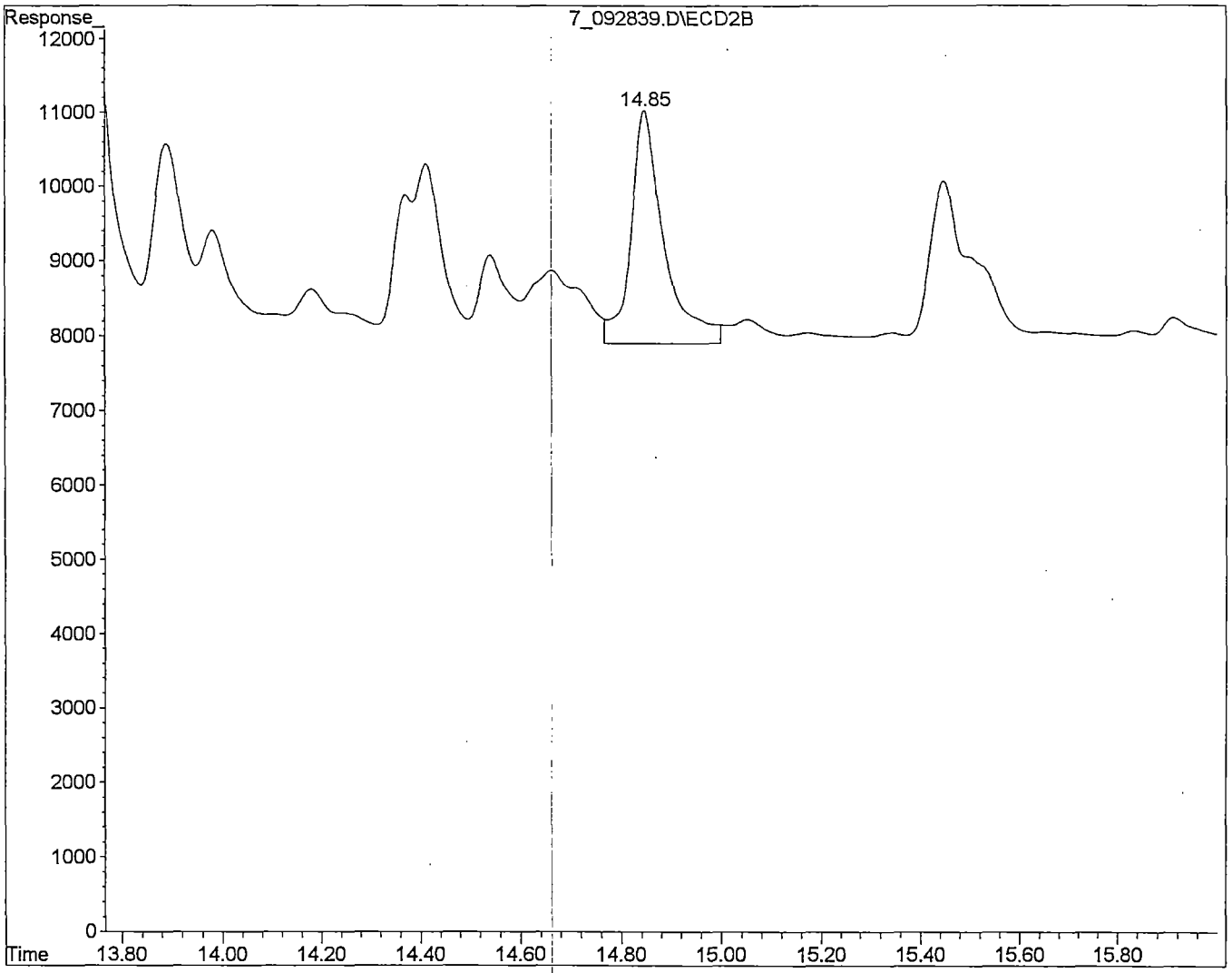
Aroclor-1260 {2} #2 13.03min area: 333722 m

Integration Time Range: 12.97 - 13.17

F:\HPCHEM\HP\7\DATA\09_28_01\7_092839.D
Report generated: Sat Sep 29 08:43:44 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_28_01\7_092839.D
Date Acquired: 28 Sep 2001 22:44
Inst: HP_07 Operator ID: SA
Name: 47452.09 *E04F7 *
Misc: *EPA*30.5G/5.0ML*13
Method: F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 29 8:11 2001 Quant Results File: XPCBI24.RES



Aroclor-1260 {4} #2 14.85min area: 143133 m

Integration Time Range: 14.77 - 15.00

F:\HPCHEM\HP\7\DATA\09_28_01\7_092839.D
Report generated: Sat Sep 29 08:43:44 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E04F8

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Matrix: (soil/water) SOIL Lab Sample ID: 47452.10

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

% Moisture: 58 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/28/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

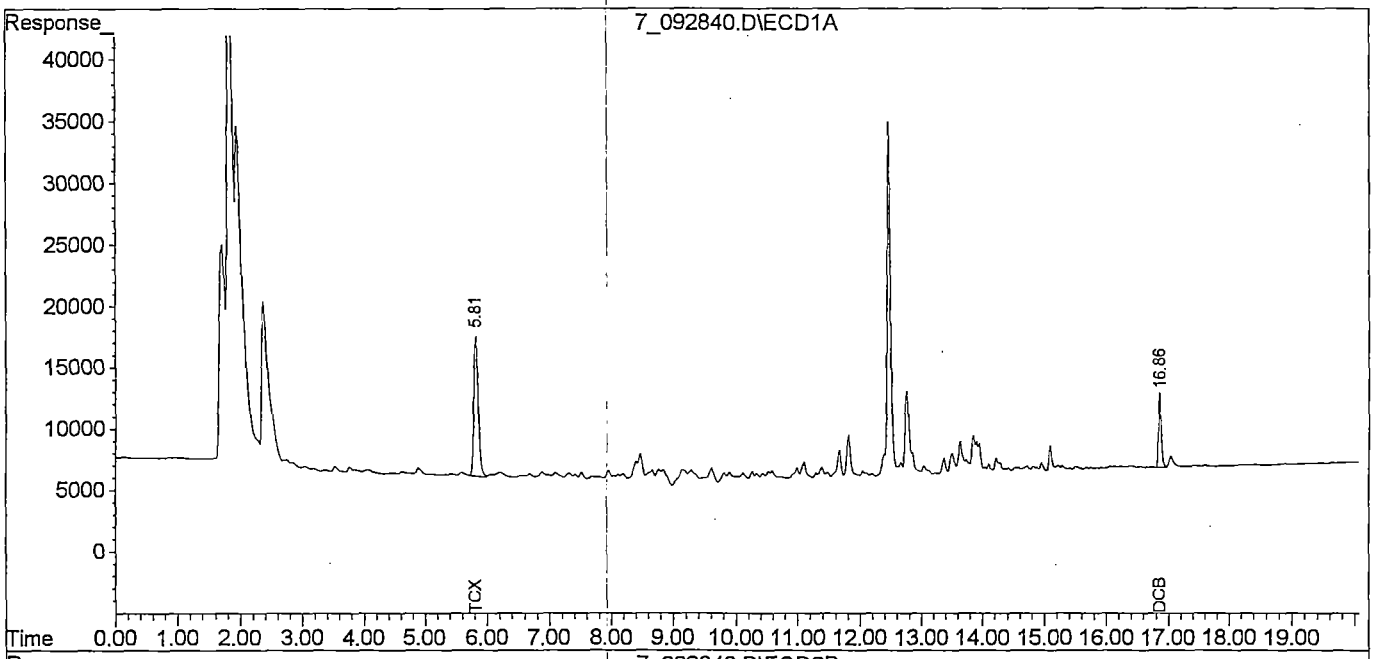
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	77	U
11104-28-2	Aroclor-1221	77	U
11141-16-5	Aroclor-1232	77	U
53469-21-9	Aroclor-1242	77	U
12672-29-6	Aroclor-1248	77	U
11097-69-1	Aroclor-1254	77	U
11096-82-5	Aroclor-1260	77	U
	Surrogate amount spiked	15.51	

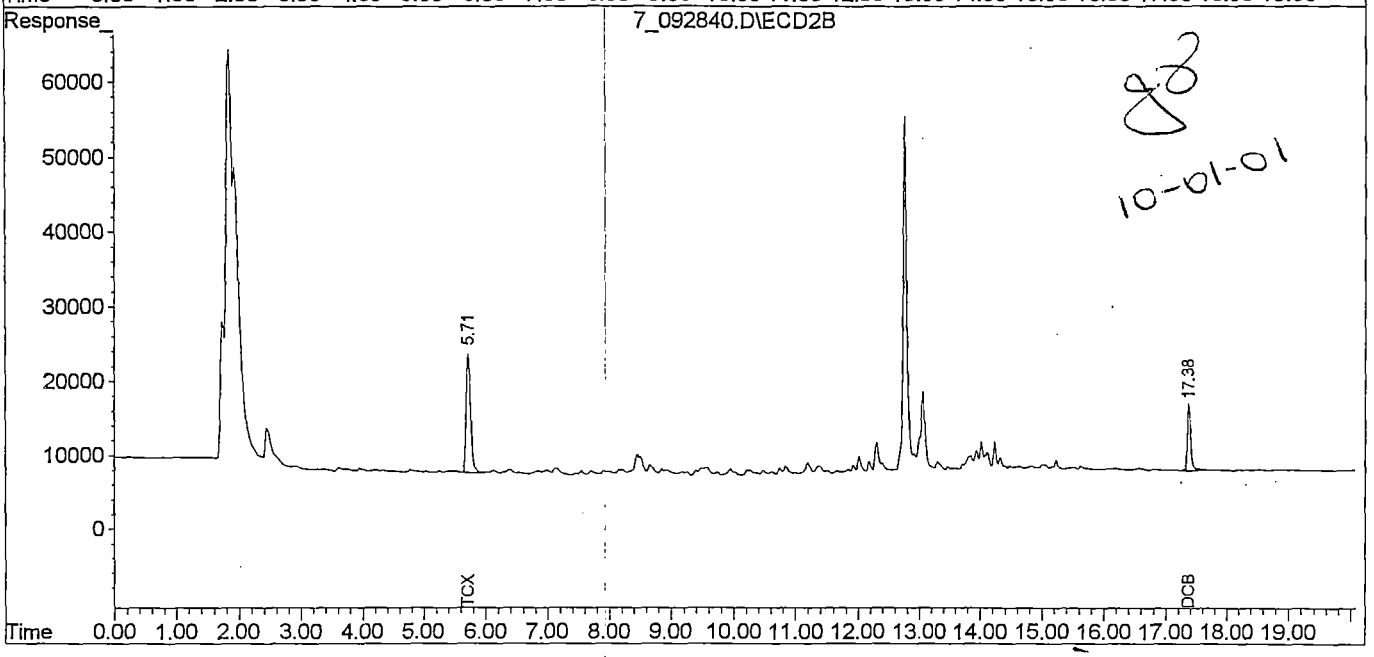
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092840.D\ECD1A.CH Vial: 40
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092840.D\ECD2B.CH
Acq On : 28 Sep 2001 23:08 Operator: SA
Sample : 47452.10 *E04F8 * Inst : HP_07
Misc : *EPA*30.7G/5.0ML*58 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:15 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





10-01-01

Quantitation Report

```
Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092840.D\ECD1A.CH Vial: 40
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092840.D\ECD2B.CH
Acq On    : 28 Sep 2001  23:08                        Operator: SA
Sample    : 47452.10  *E04F8  *                       Inst    : HP_07
Misc      : *EPA*30.7G/5.0ML*58                       Dilution: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e
Quant Time: Sep 29  8:15 2001  Quant Results File: XPCBI24.RES

Method       : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path   : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update  : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj.      : 0.5uL
Signal #1 Phase : PEST I          Signal #2 Phase: PEST II
Signal #1 Info  : .32 mm          Signal #2 Info : .32 mm
Signal #1 Inst  : HP_07A          Signal #2 Inst : HP_07B
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.81	5.72	568724	804937	11.4	12.4	
	Spiked Amount 15.511			Recovery	=	73.50%	79.94%	
22)	S DCB	16.86	17.38	187691	341128	8.993	12.8	#
	Spiked Amount 15.511			Recovery	=	57.98%	82.52%	
	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.

E04F9

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Matrix: (soil/water) SOIL Lab Sample ID: 47452.11

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

% Moisture: 50 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/28/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

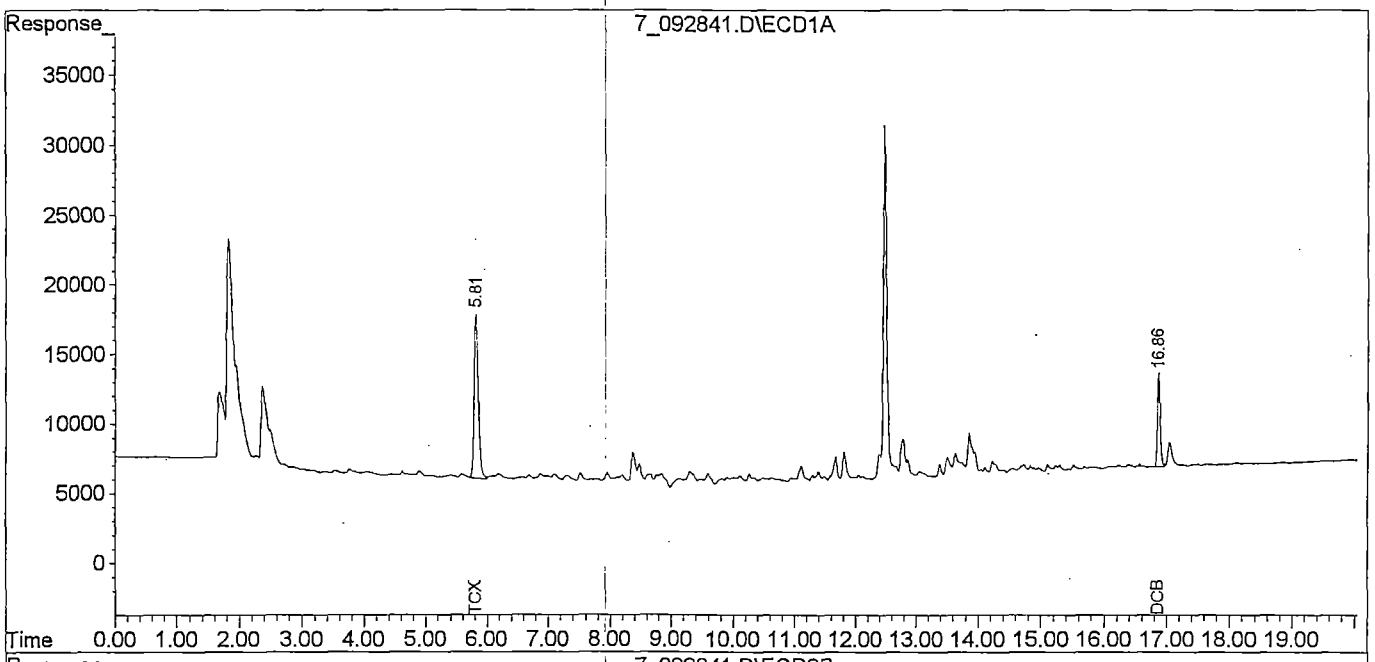
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	66	U
11104-28-2	Aroclor-1221	66	U
11141-16-5	Aroclor-1232	66	U
53469-21-9	Aroclor-1242	66	U
12672-29-6	Aroclor-1248	66	U
11097-69-1	Aroclor-1254	66	U
11096-82-5	Aroclor-1260	66	U
	Surrogate amount spiked	13.24	

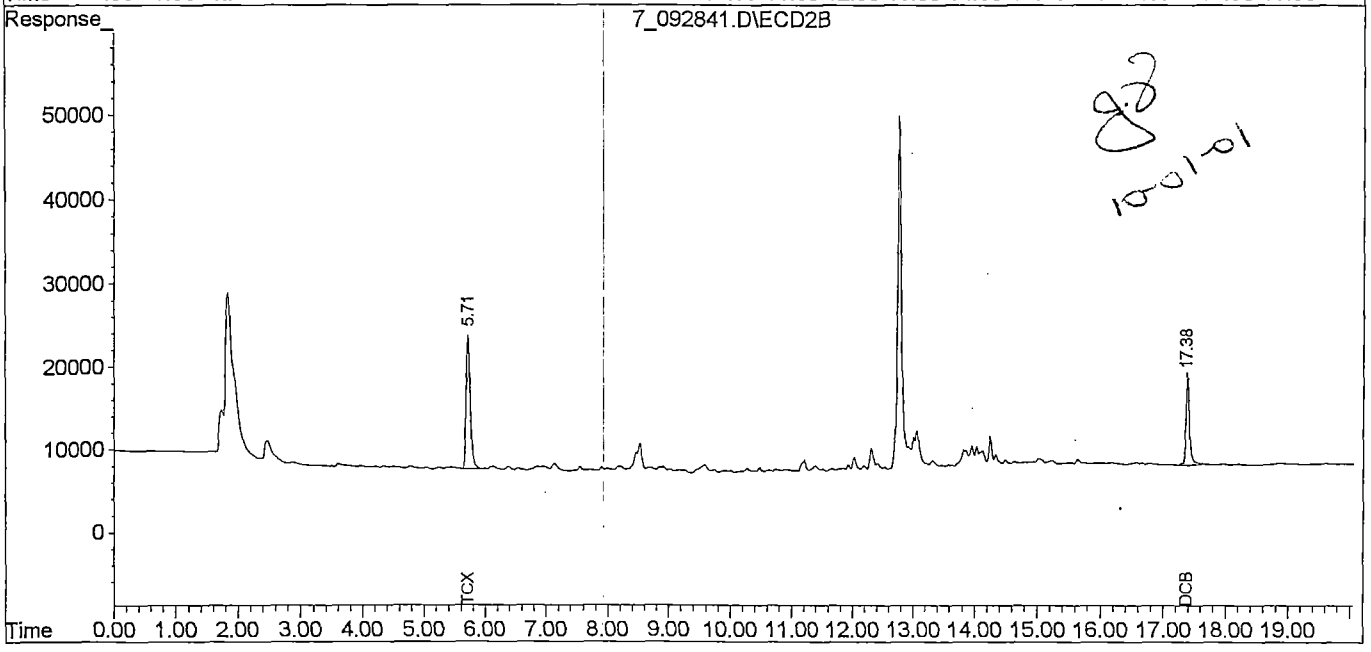
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092841.D\ECD1A.CH Vial: 41
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092841.D\ECD2B.CH
Acq On : 28 Sep 2001 23:32 Operator: SA
Sample : 47452.11 *E04F9 * Inst : HP_07
Misc : *EPA*30.2G/5.0ML*50 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:16 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





10-01-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092841.D\ECD1A.CH Vial: 41
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092841.D\ECD2B.CH
Acq On : 28 Sep 2001 23:32 Operator: SA
Sample : 47452.11 *E04F9 * Inst : HP_07
Misc : *EPA*30.2G/5.0ML*50 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:16 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.81	5.71	554427	779056	9.454	10.3	
	Spiked Amount 13.245			Recovery	=	71.38%	77.77%	
22)	S DCB	16.86	17.38	207406	441165	8.486	14.2	#
	Spiked Amount 13.245			Recovery	=	64.07%	107.21%	

Target Compounds:

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

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E04G0

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Matrix: (soil/water) SOIL Lab Sample ID: 47452.12

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

% Moisture: 28 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/29/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

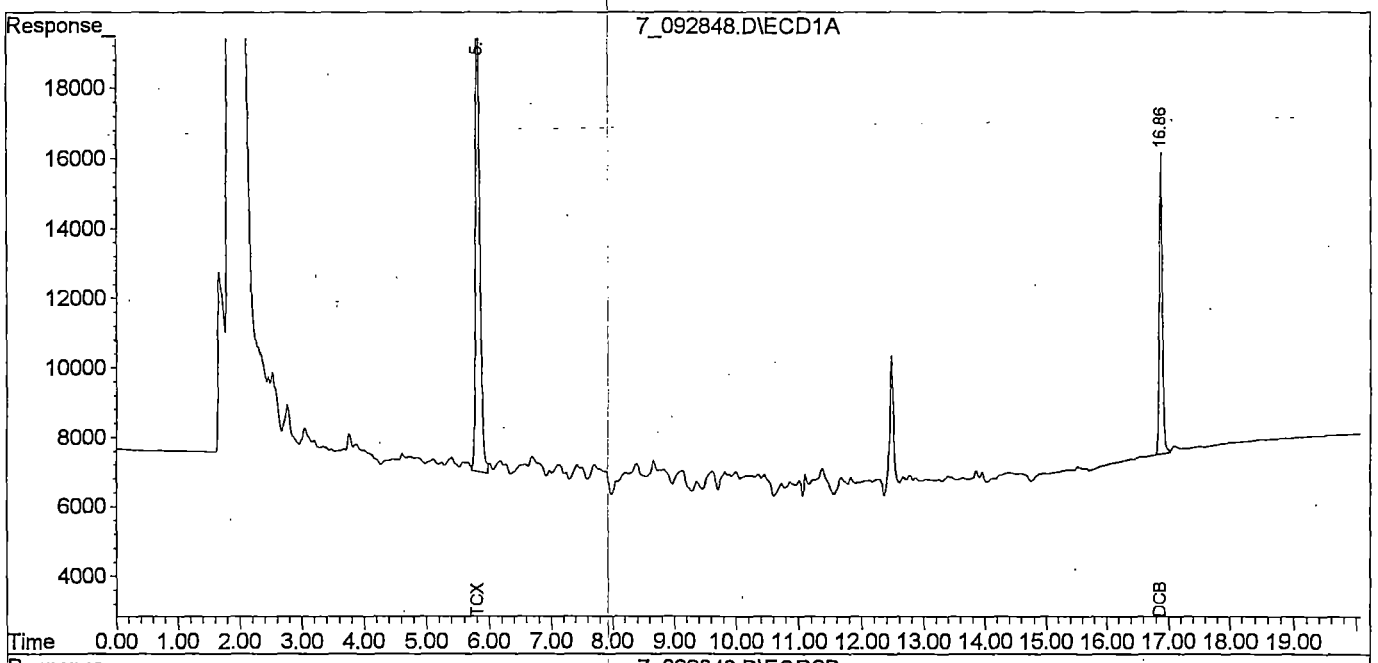
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	46	U
11104-28-2	Aroclor-1221	46	U
11141-16-5	Aroclor-1232	46	U
53469-21-9	Aroclor-1242	46	U
12672-29-6	Aroclor-1248	46	U
11097-69-1	Aroclor-1254	46	U
11096-82-5	Aroclor-1260	46	U
	Surrogate amount spiked	9.20	

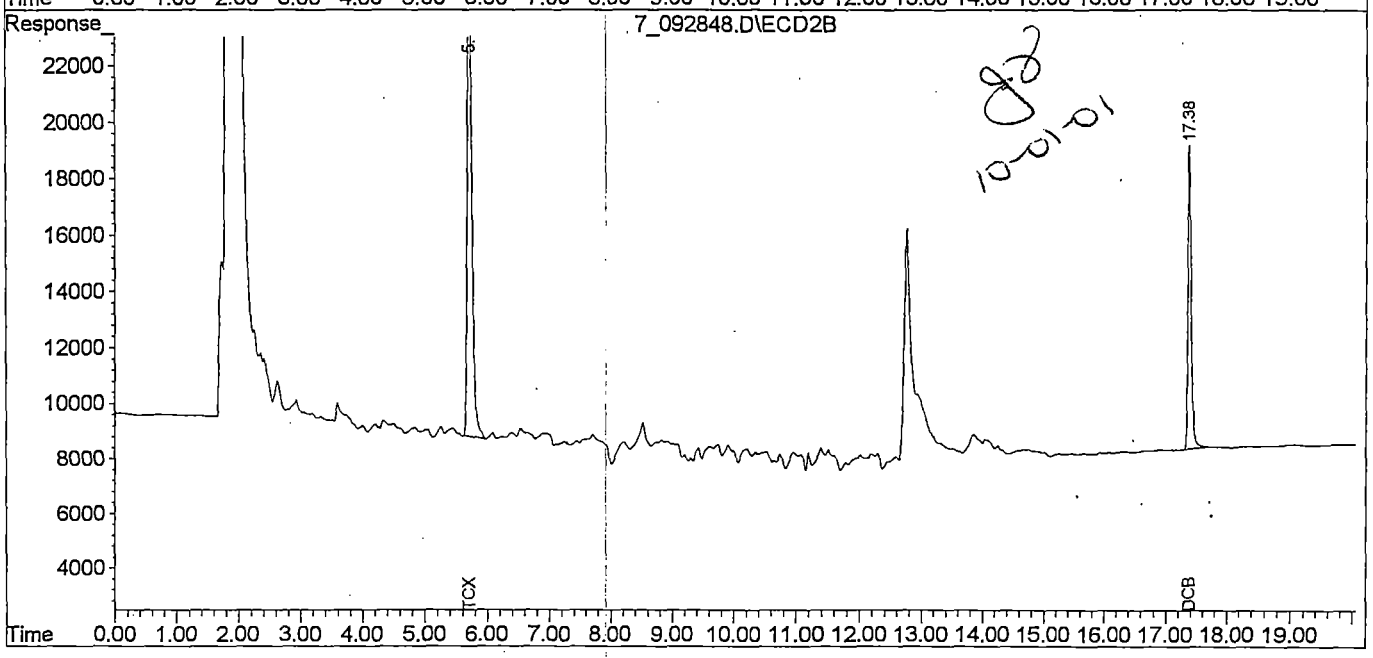
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092848.D\ECD1A.CH Vial: 48
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092848.D\ECD2B.CH
Acq On : 29 Sep 2001 2:21 Operator: SA
Sample : 47452.12 *E04G0 * Inst : HP_07
Misc : *EPA*30.2G/5.0ML*28 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:16 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





10-01-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092848.D\ECD1A.CH Vial: 48
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092848.D\ECD2B.CH
Acq On : 29 Sep 2001 2:21 Operator: SA
Sample : 47452.12 *E04G0 * Inst : HP_07
Misc : *EPA*30.2G/5.0ML*28 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:16 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.81	5.71	655819	918300	7.766	8.406
	Spiked Amount 9.198			Recovery	=	84.43%	91.39%
22)	S DCB	16.86	17.38	288006	403235	8.183	8.986
	Spiked Amount 9.198			Recovery	=	88.97%	97.70%

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.

E04G1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Matrix: (soil/water) SOIL Lab Sample ID: 47452.13

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

% Moisture: 28 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/29/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

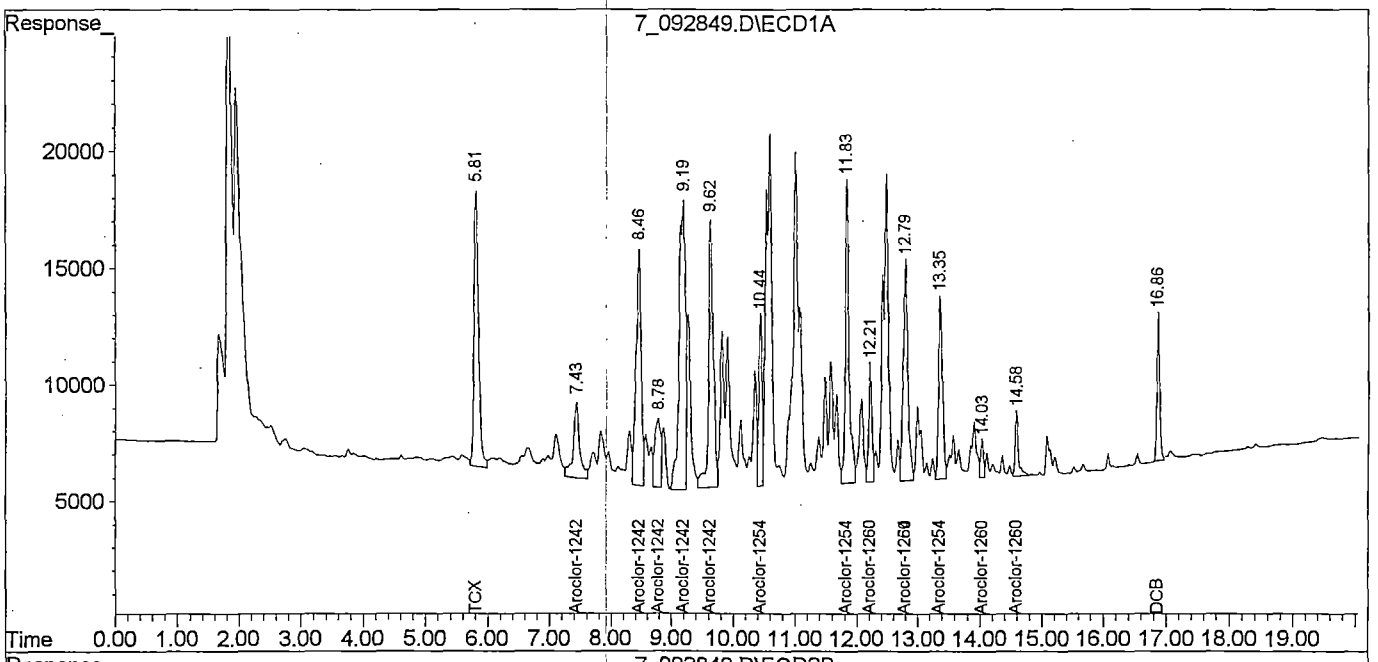
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	45	U
11104-28-2	Aroclor-1221	45	U
11141-16-5	Aroclor-1232	45	U
53469-21-9	Aroclor-1242	130	
12672-29-6	Aroclor-1248	45	U
11097-69-1	Aroclor-1254	62	P
11096-82-5	Aroclor-1260	32	JP
Surrogate amount spiked		9.02	

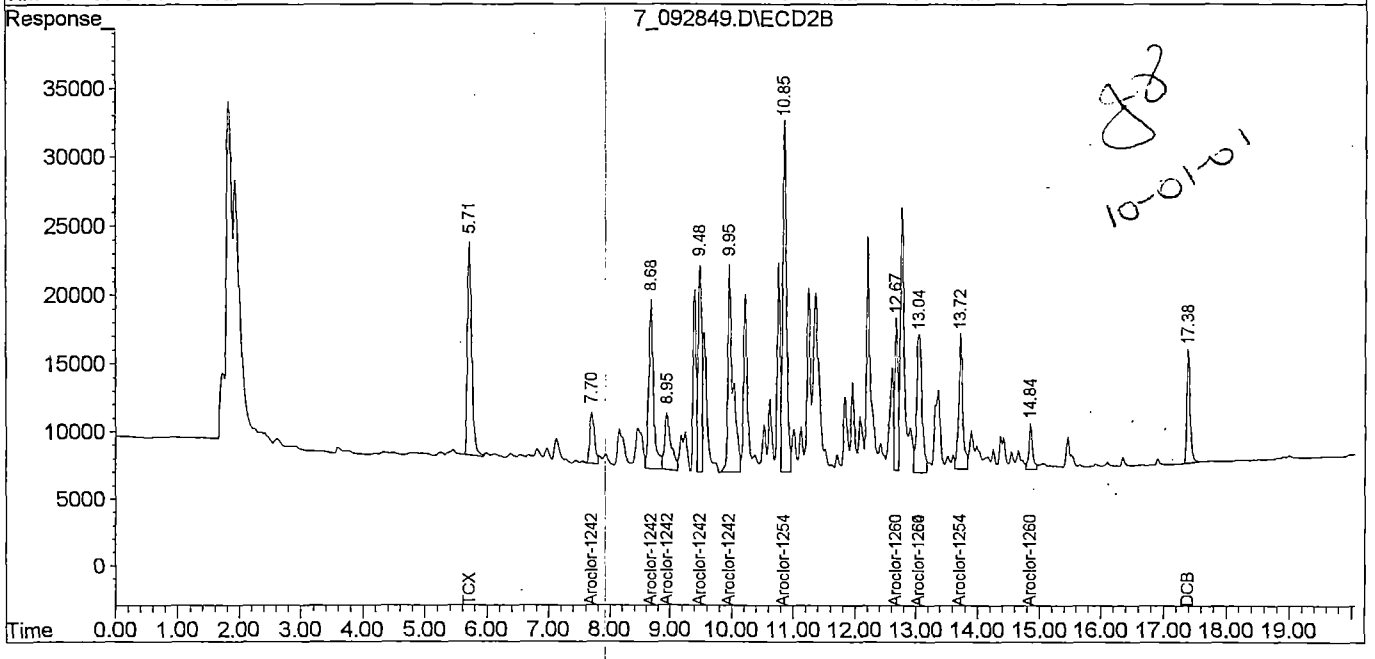
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092849.D\ECD1A.CH Vial: 49
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092849.D\ECD2B.CH
Acq On : 29 Sep 2001 2:45 Operator: SA
Sample : 47452.13 *E04G1 * Inst : HP_07
Misc : *EPA*30.8G/5.0ML*28 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:18 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





10-01-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092849.D\ECD1A.CH Vial: 49
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092849.D\ECD2B.CH
Acq On : 29 Sep 2001 2:45 Operator: SA
Sample : 47452.13 *E04G1 * Inst : HP_07
Misc : *EPA*30.8G/5.0ML*28 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:18 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

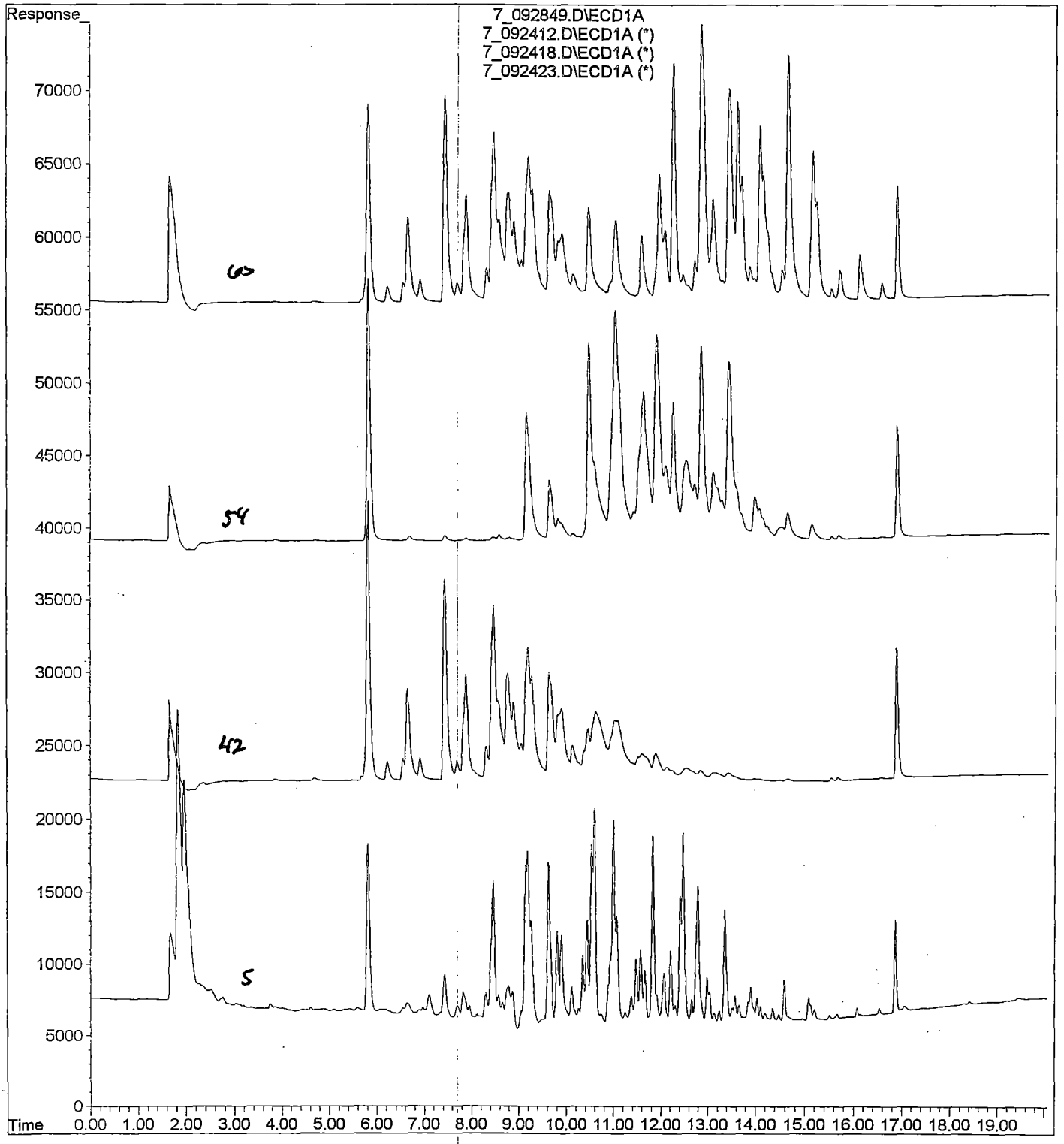
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.81	5.71	585042	768681	6.793	6.900	
	Spiked Amount 9.019			Recovery	=	75.32%	76.51%	
22)	S DCB	16.86	17.38	199244	303766	5.551	6.637	
	Spiked Amount 9.019			Recovery	=	61.55%	73.59%	
	Target Compounds:							
7)	L4 Aroclor-1242	7.43	7.70	238289	206324	56.1	35.4	#
8)	L4 Aroclor-1242 {2}	8.46	8.68	590444	694982	135.2	140.6	
9)	L4 Aroclor-1242 {3}	8.78	8.95f	200605	307138	76.4	70.2	
10)	L4 Aroclor-1242 {4}	9.19	9.48	876159	616674	273.5m	224.8	
11)	L4 Aroclor-1242 {5}	9.62	9.96	616941	876512	205.1	192.2m	
	Sum Aroclor-1242			2522438	2701630	746.3	663.1	
	Average Aroclor-1242					149.259	132.615	
12)	L6 Aroclor-1254	10.44	10.85	273785	1078865	36.5	148.4	#
14)	L6 Aroclor-1254 {3}	11.83f	0.00	551072	0	77.8	N.D.	#
15)	L6 Aroclor-1254 {4}	12.79f	13.04f	502267	613076	89.8	105.4	
16)	L6 Aroclor-1254 {5}	13.35f	13.72f	322765	449176	42.7	42.5	
	Sum Aroclor-1254			1649889	2141117	246.8	296.3	
	Average Aroclor-1254					61.692	98.768	
17)	L7 Aroclor-1260	12.21f	12.67	194354	416024	35.5	51.7	#
18)	L7 Aroclor-1260 {2}	12.79f	13.04f	502267	618788	58.6	86.6m	#
20)	L7 Aroclor-1260 {4}	14.03f	0.00	53222	0	17.9	N.D. d	#
21)	L7 Aroclor-1260 {5}	14.58f	14.84f	98832	136483	15.2	18.2m	
	Sum Aroclor-1260			848674	1171295	57.3	70.6	
	Average Aroclor-1260					31.783	52.174	

Acceptable

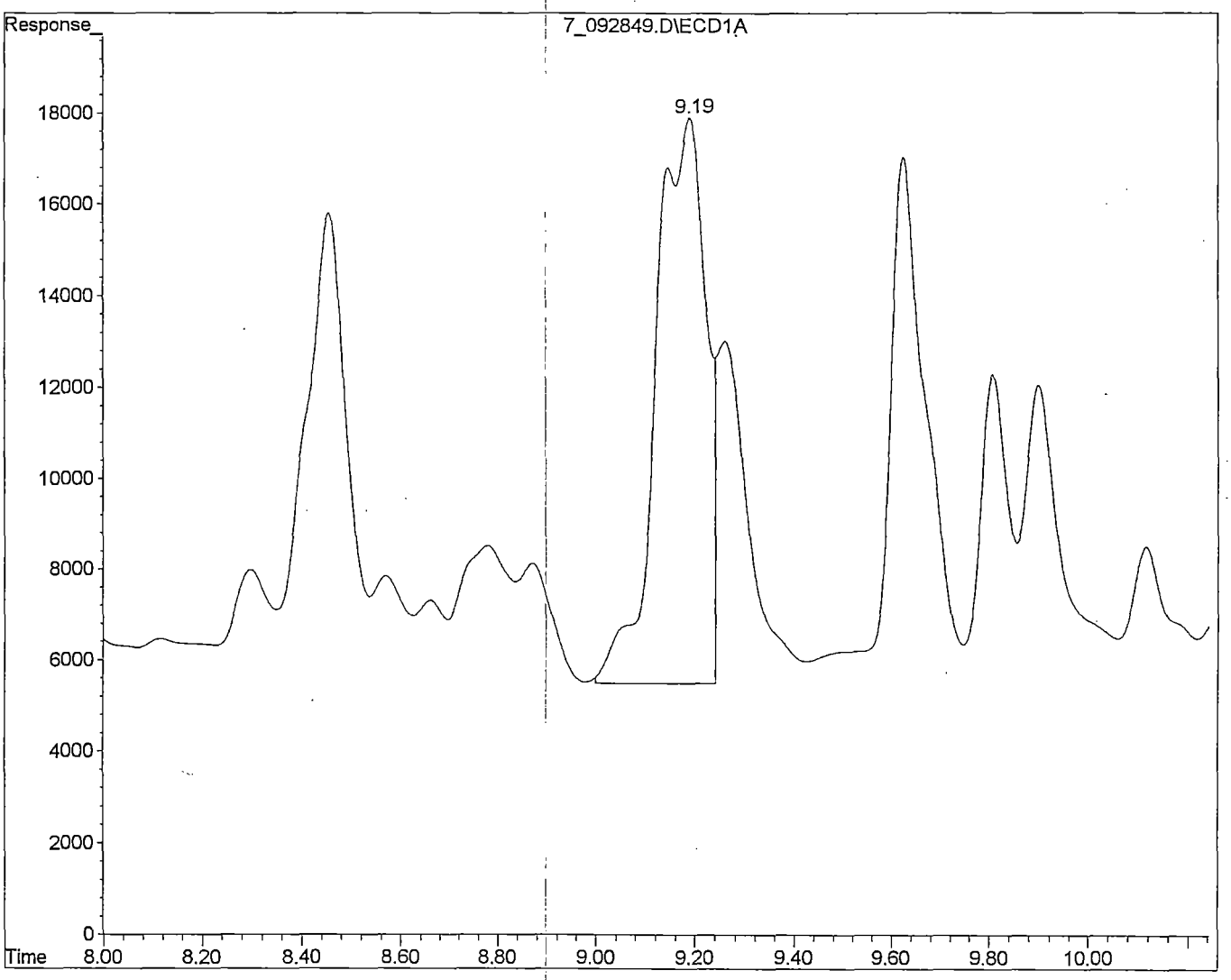
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

File : F:\HPCHEM\HP\7\DATA\09_28_01\7_092849.D
Operator : SA
Acquired : 29 Sep 2001 2:45 using AcqMethod OLM03.M
Instrument : HP_07
Sample Name: 47452.13 *E04G1 *
Misc Info : *EPA*30.8G/5.0ML*28
Vial Number: 49`



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_28_01\7_092849.D
Date Acquired: 29 Sep 2001 2:45
Inst: HP_07 Operator ID: SA
Name: 47452.13 *E04G1 *
Misc: *EPA*30.8G/5.0ML*28
Method: F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 29 8:18 2001 Quant Results File: XPCBI24.RES



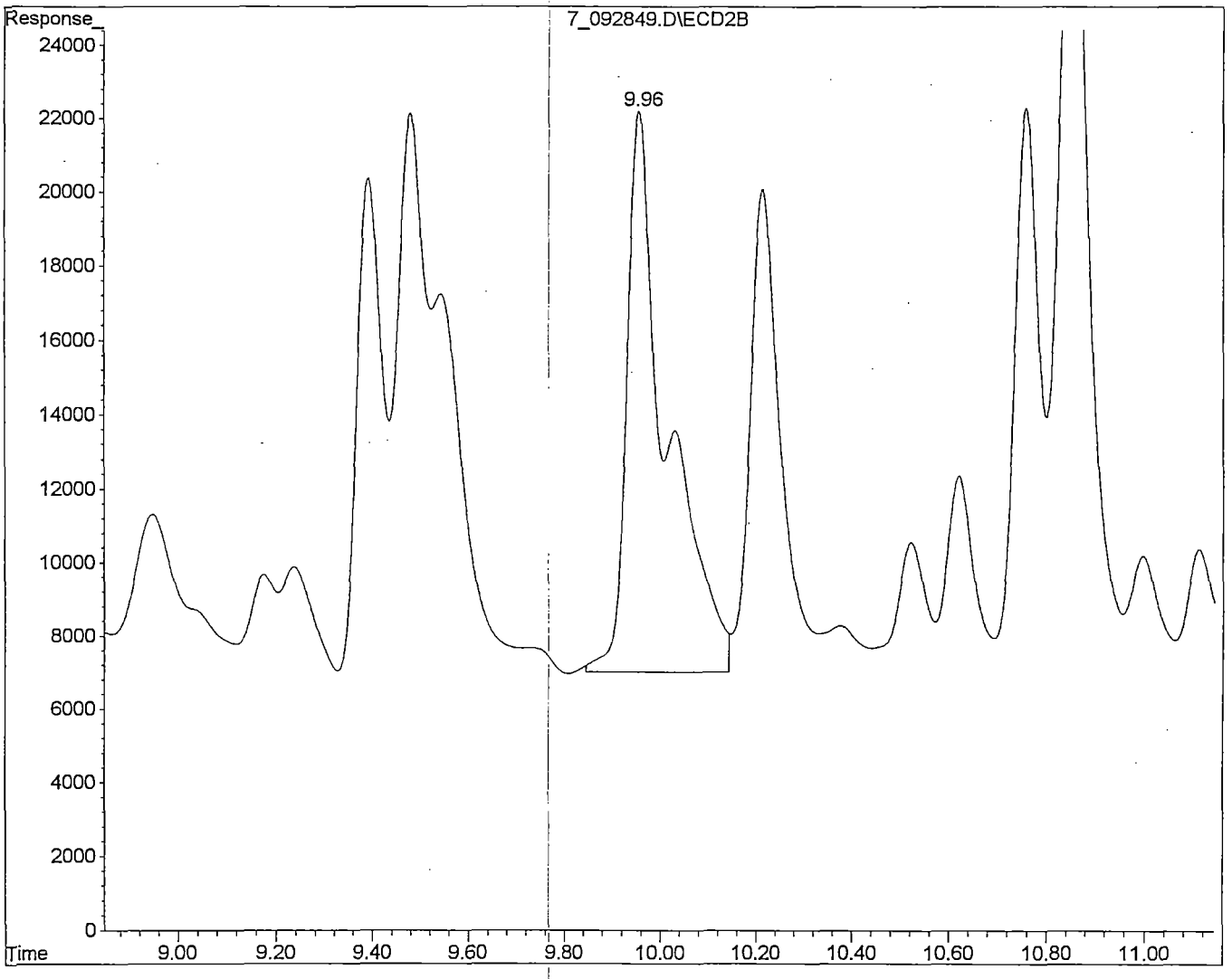
Aroclor-1242 {4} 9.19min area: 876159 m

Integration Time Range: 9.00 - 9.24

F:\HPCHEM\HP\7\DATA\09_28_01\7_092849.D
Report generated: Sat Sep 29 08:43:49 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_28_01\7_092849.D
Date Acquired: 29 Sep 2001 2:45
Inst: HP_07 Operator ID: SA
Name: 47452.13 *E04G1 *
Misc: *EPA*30.8G/5.0ML*28
Method: F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 29 8:18 2001 Quant Results File: XPCBI24.RES



CA 9.29.01

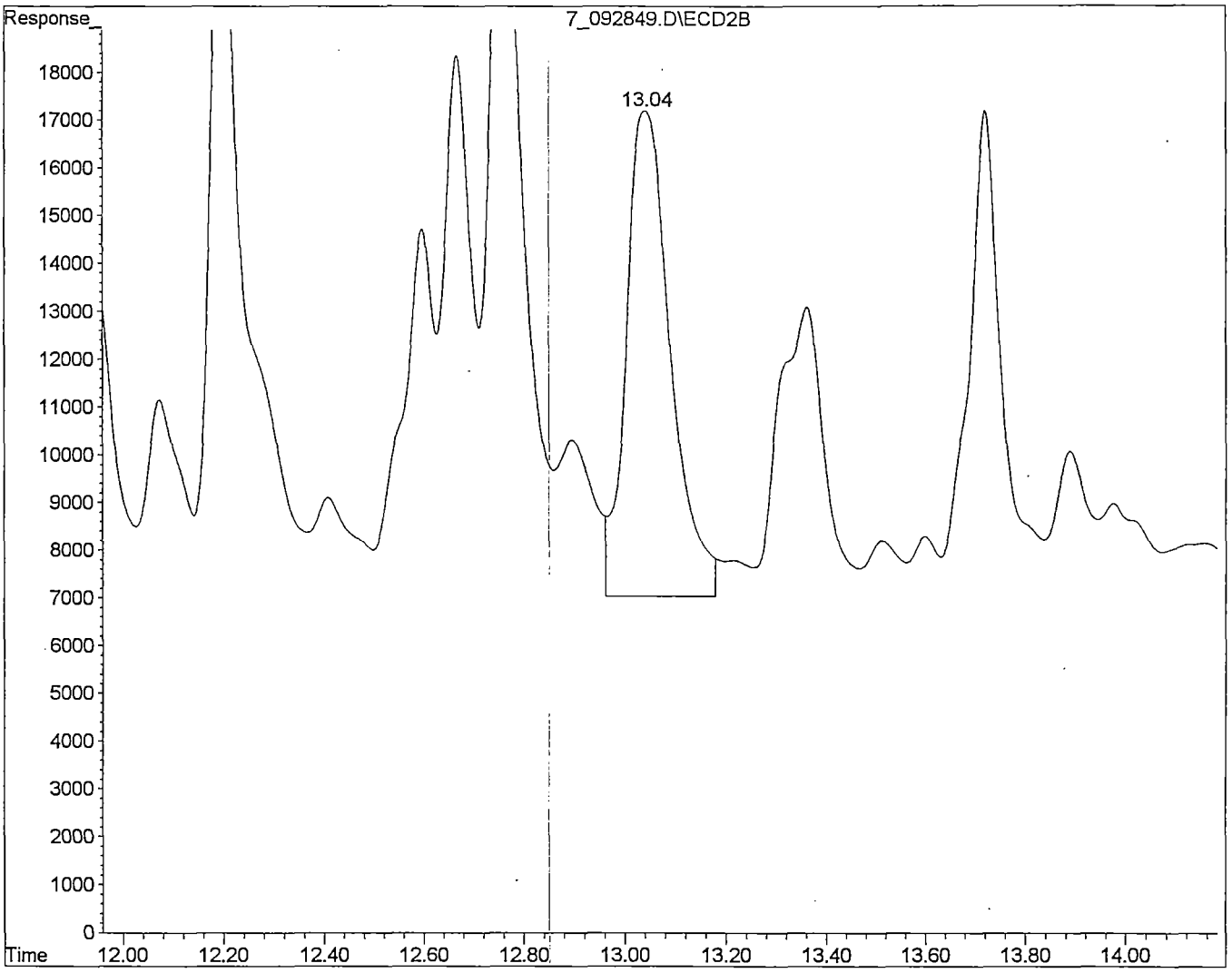
Aroclor-1242 {5} #2 9.96min area: 876512 m

Integration Time Range: 9.85 - 10.14

F:\HPCHEM\HP\7\DATA\09_28_01\7_092849.D
Report generated: Sat Sep 29 08:43:50 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_28_01\7_092849.D
Date Acquired: 29 Sep 2001 2:45
Inst: HP_07 Operator ID: SA
Name: 47452.13 *E04G1 *
Misc: *EPA*30.8G/5.0ML*28
Method: F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 29 8:18 2001 Quant Results File: XPCBI24.RES



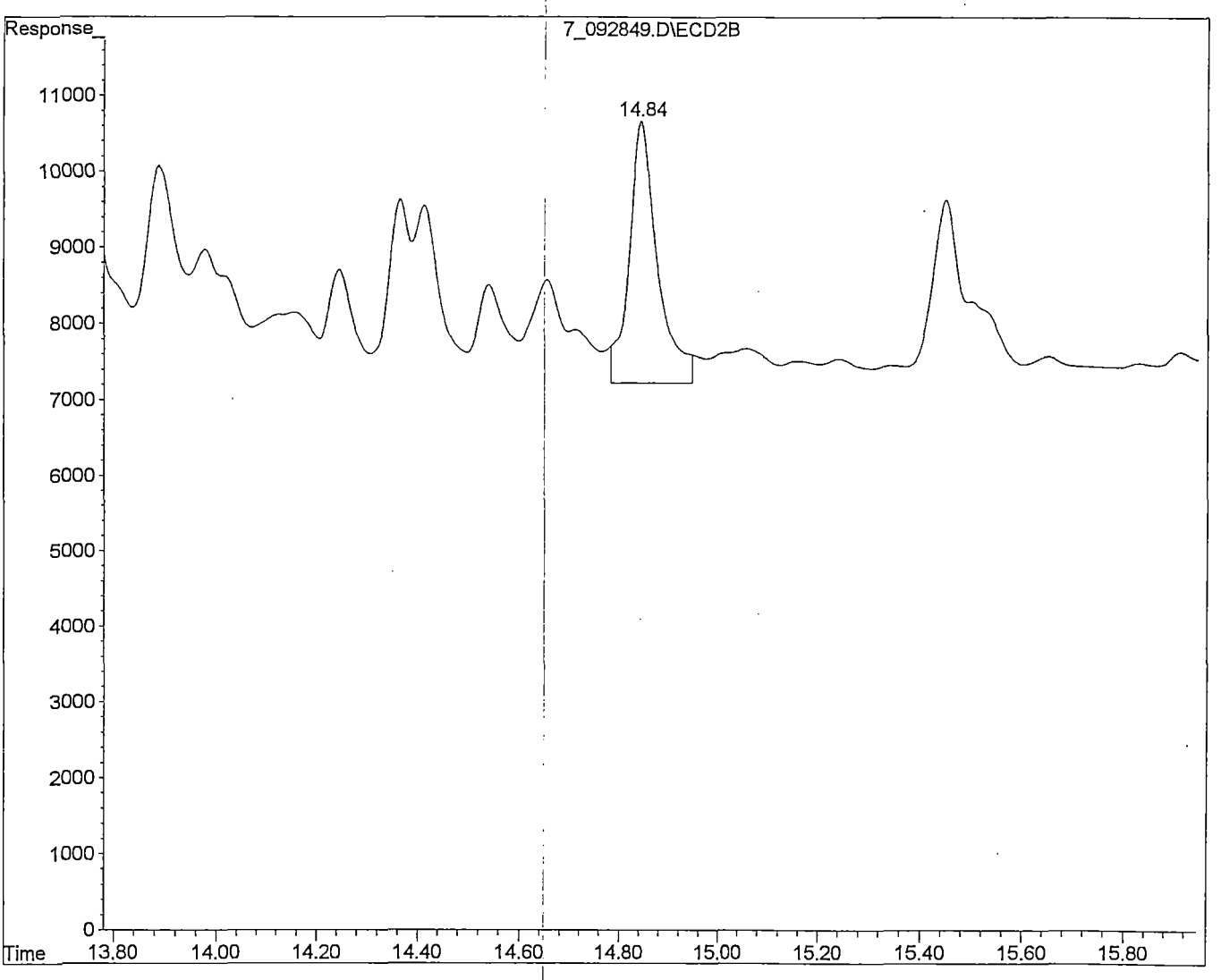
Aroclor-1260 {2} #2 13.04min area: 618788 m

Integration Time Range: 12.96 - 13.18

F:\HPCHEM\HP\7\DATA\09_28_01\7_092849.D
Report generated: Sat Sep 29 08:43:51 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_28_01\7_092849.D
Date Acquired: 29 Sep 2001 2:45
Inst: HP_07 Operator ID: SA
Name: 47452.13 *E04G1 *
Misc: *EPA*30.8G/5.0ML*28
Method: F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 29 8:18 2001 Quant Results File: XPCBI24.RES



49.4401

Aroclor-1260 {5} #2 14.84min area: 136483 m

Integration Time Range: 14.78 - 14.95

F:\HPCHEM\HP\7\DATA\09_28_01\7_092849.D
Report generated: Sat Sep 29 08:43:51 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E04G2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Matrix: (soil/water) SOIL Lab Sample ID: 47452.14

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

% Moisture: 57 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/29/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

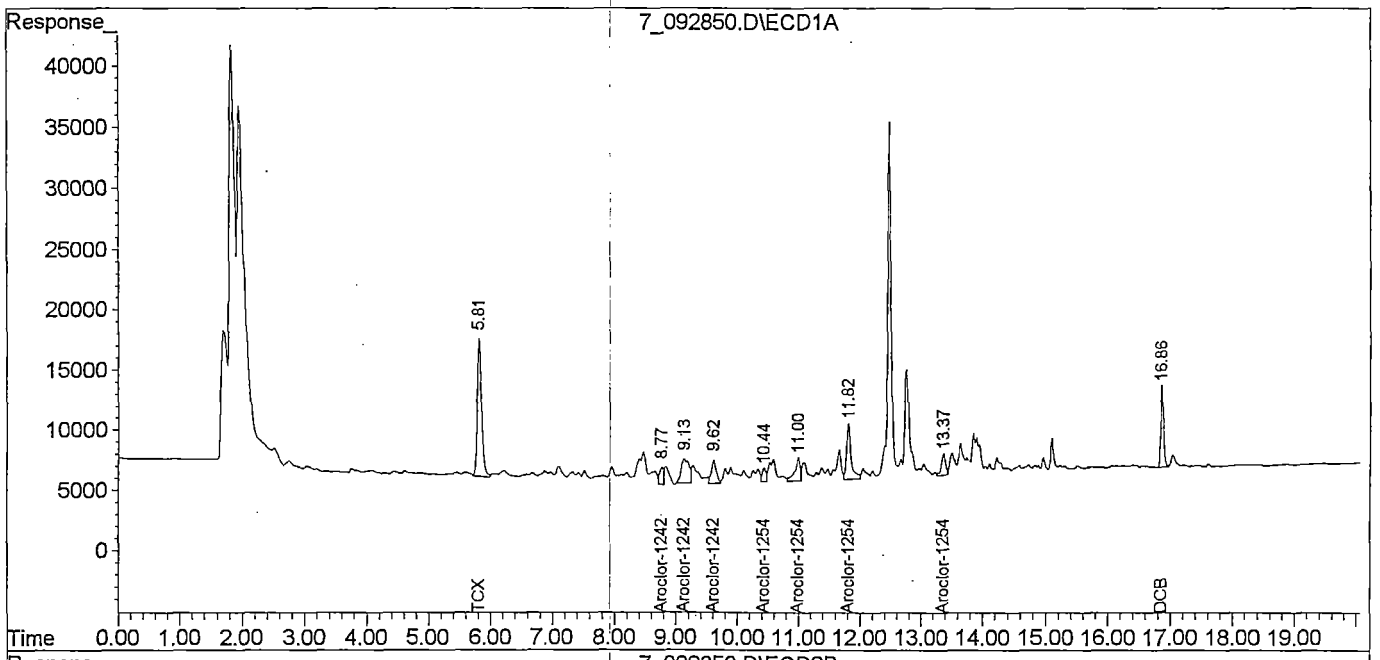
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	76	U
11104-28-2	Aroclor-1221	76	U
11141-16-5	Aroclor-1232	76	U
53469-21-9	Aroclor-1242	33	JP
12672-29-6	Aroclor-1248	76	U
11097-69-1	Aroclor-1254	26	JP
11096-82-5	Aroclor-1260	76	U
Surrogate amount spiked		15.40	

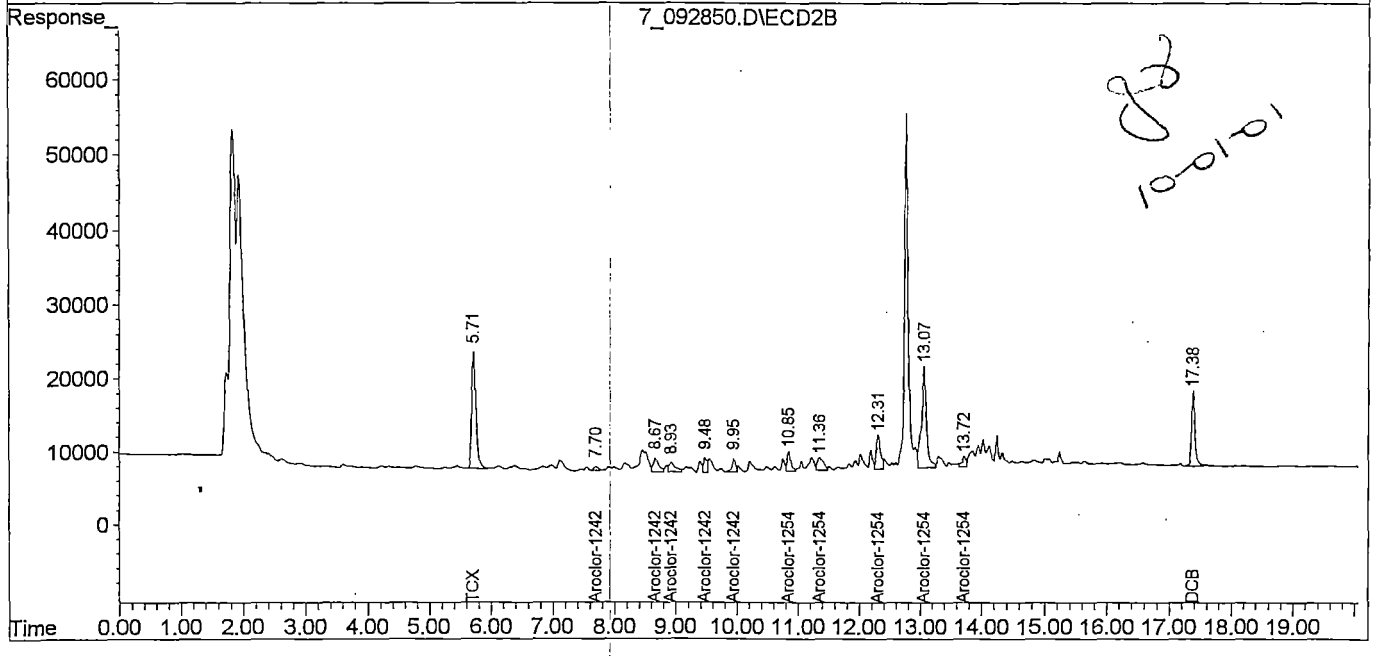
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092850.D\ECD1A.CH Vial: 50
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092850.D\ECD2B.CH
Acq On : 29 Sep 2001 3:09 Operator: SA
Sample : 47452.14 *E04G2 * Inst : HP_07
Misc : *EPA*30.2G/5.0ML*57 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:21 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





10-01-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092850.D\ECD1A.CH Vial: 50
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092850.D\ECD2B.CH
Acq On : 29 Sep 2001 3:09 Operator: SA
Sample : 47452.14 *E04G2 * Inst : HP_07
Misc : *EPA*30.2G/5.0ML*57 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:21 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

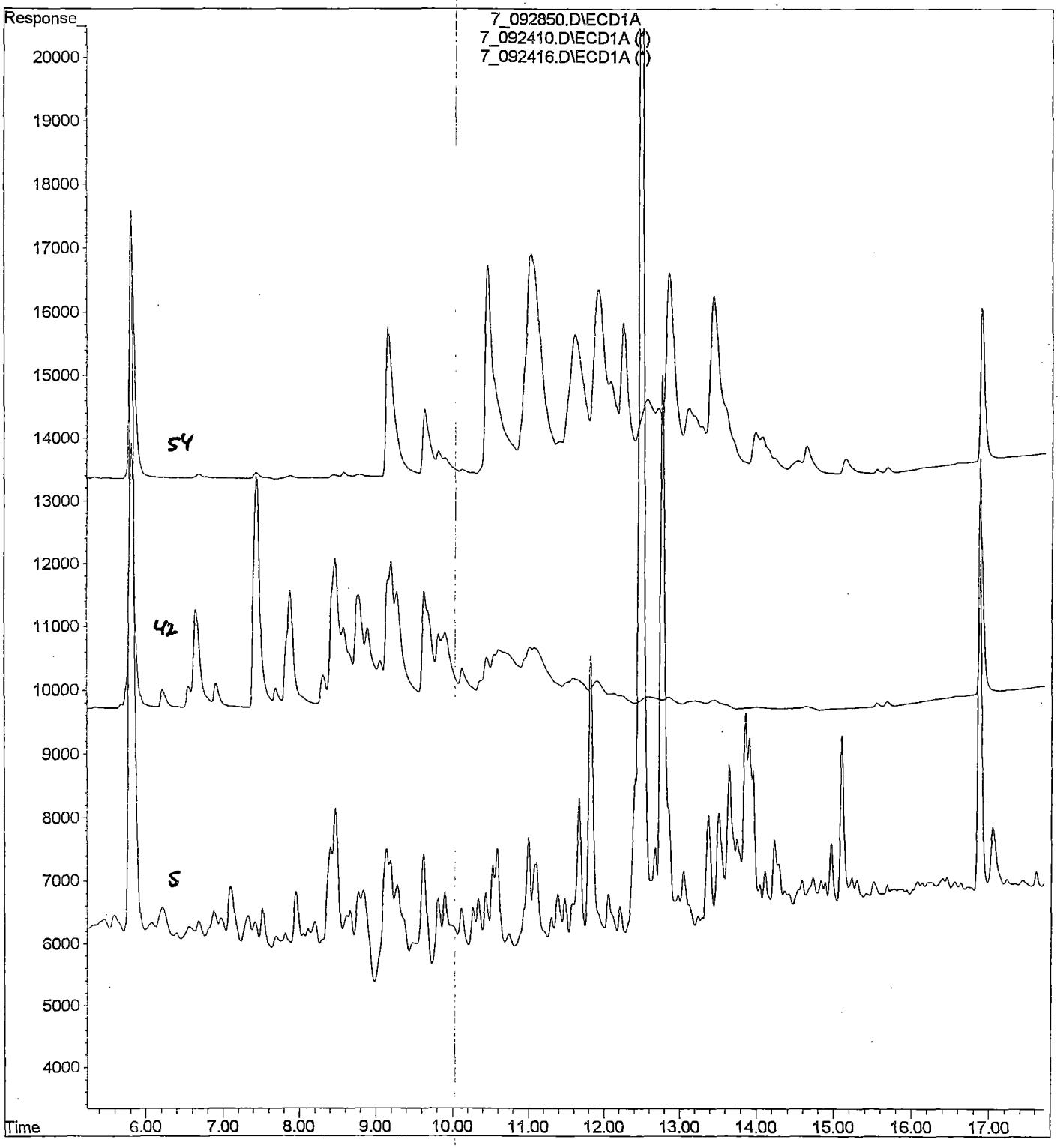
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.81	5.71	561789	785470	11.1	12.0	
	Spiked Amount 15.401			Recovery	=	72.07%	77.92%	
22)	S DCB	16.86	17.38	210873	383562	10.0	14.3	#
	Spiked Amount 15.401			Recovery	=	64.93%	92.85%	
	Target Compounds:							
7)	L4 Aroclor-1242	0.00	7.70	0	28436	N.D. d	8.323	#
8)	L4 Aroclor-1242 {2}	0.00	8.67f	0	120204	N.D. d	41.5	#
9)	L4 Aroclor-1242 {3}	8.77	8.92f	62330	93669	40.5	36.5	
10)	L4 Aroclor-1242 {4}	9.13f	9.48	177216	78177	94.5m	48.7	#
11)	L4 Aroclor-1242 {5}	9.62	9.95	110442	75040	62.7	28.1	#
	Sum Aroclor-1242			349988	395526	197.7	163.2	
	Average Aroclor-1242					65.905	32.630	
12)	L6 Aroclor-1254	10.44	10.85	48670	113920	11.1	26.8	#
13)	L6 Aroclor-1254 {2}	11.00	11.36f	112692	125471	16.9	35.0	#
14)	L6 Aroclor-1254 {3}	11.82f	12.31	232708	221894	56.1	31.8	#
15)	L6 Aroclor-1254 {4}	0.00	13.07	0	788826	N.D.	231.6	#
16)	L6 Aroclor-1254 {5}	13.37f	13.72f	87089	57900	19.7	9.355	#
	Sum Aroclor-1254			481159	1308011	103.8	334.6	
	Average Aroclor-1254					25.939	66.912	

cd 9.26.1

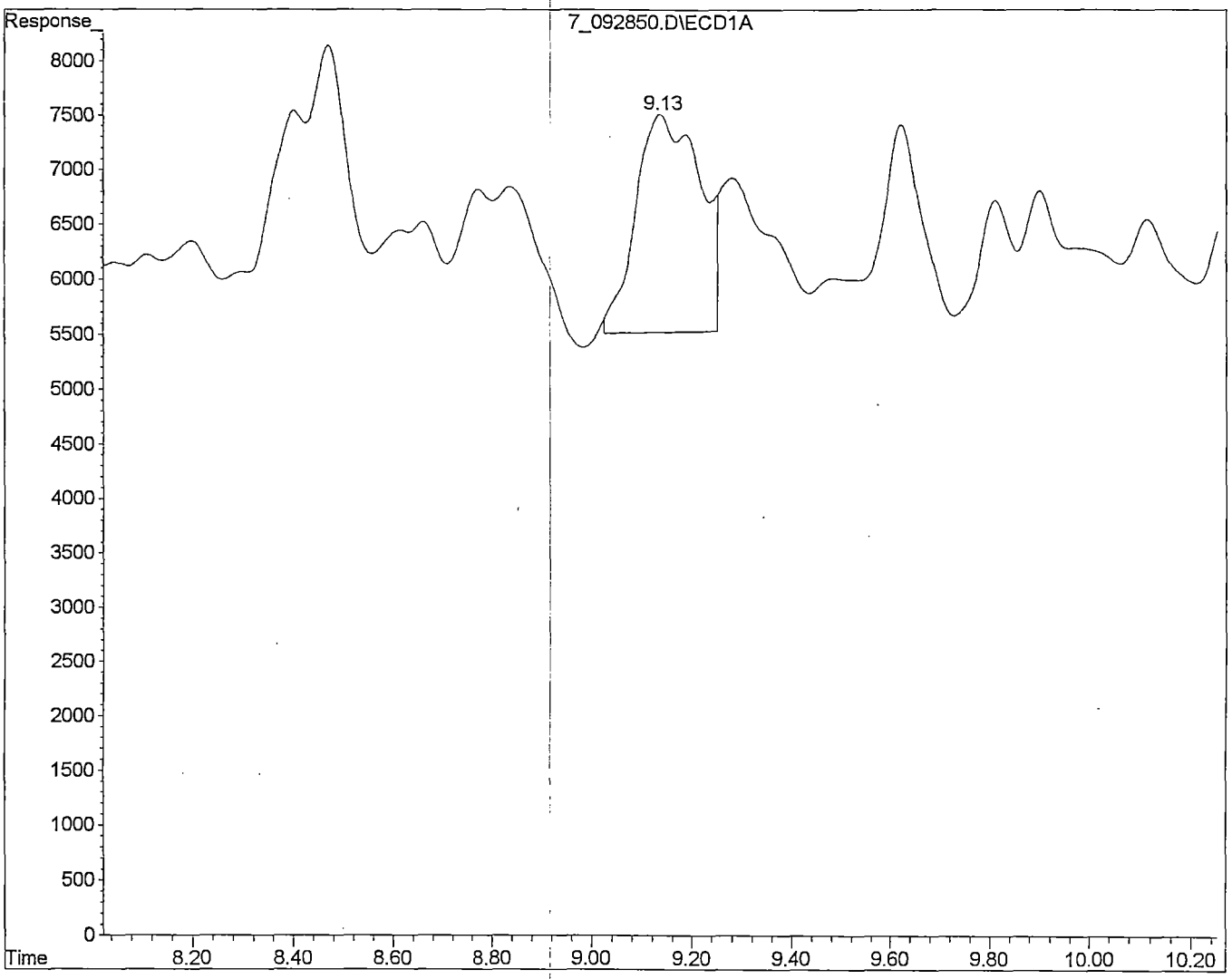
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

File : F:\HPCHEM\HP\7\DATA\09_28_01\7_092850.D
Operator : SA
Acquired : 29 Sep 2001 3:09 using AcqMethod OLM03.M
Instrument : HP_07
Sample Name: 47452.14 *E04G2 *
Misc Info : *EPA*30.2G/5.0ML*57
Vial Number: 50



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_28_01\7_092850.D
Date Acquired: 29 Sep 2001 3:09
Inst: HP_07 Operator ID: SA
Name: 47452.14 *E04G2 *
Misc: *EPA*30.2G/5.0ML*57
Method: F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 29 8:21 2001 Quant Results File: XPCBI24.RES



Aroclor-1242 {4} 9.13min area: 177216 m

Integration Time Range: 9.02 - 9.25

F:\HPCHEM\HP\7\DATA\09_28_01\7_092850.D
Report generated: Sat Sep 29 08:43:53 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E04G3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Matrix: (soil/water) SOIL Lab Sample ID: 47452.15

Sample wt/vol: 30.9 (g/mL) G Lab File ID:_____

% Moisture: 57 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/29/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

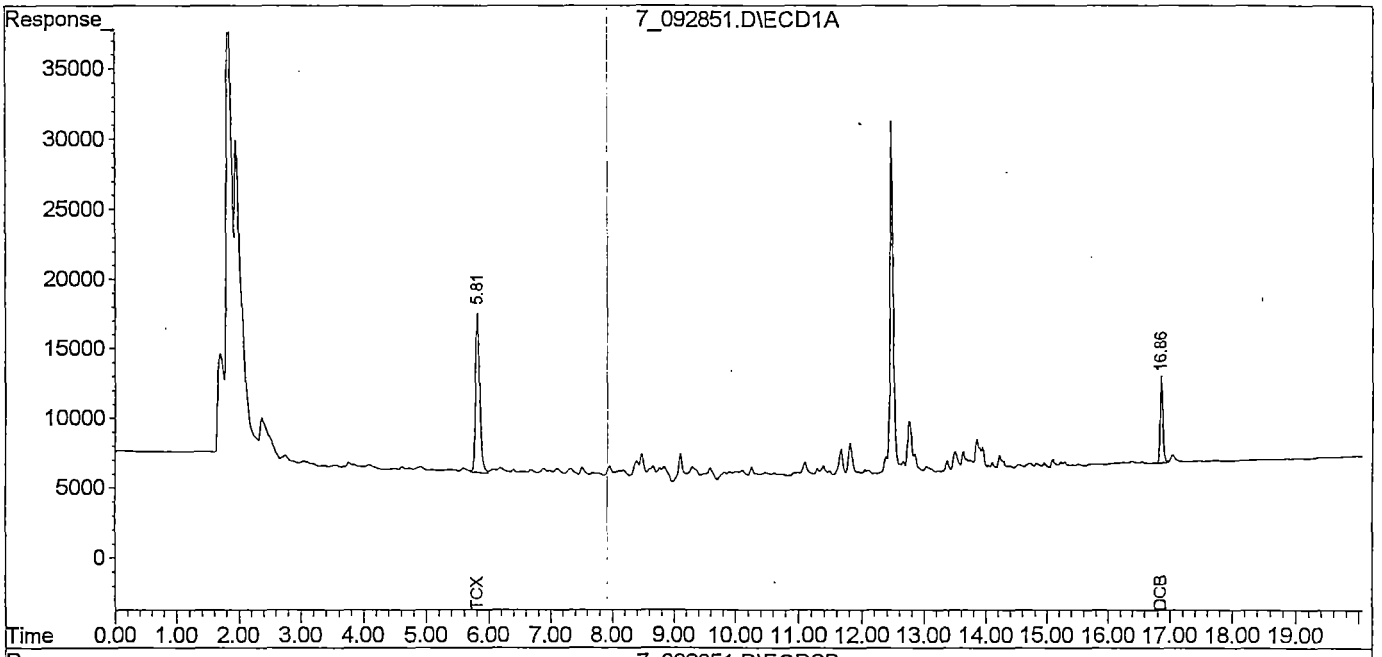
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	75	U
11104-28-2	Aroclor-1221	75	U
11141-16-5	Aroclor-1232	75	U
53469-21-9	Aroclor-1242	75	U
12672-29-6	Aroclor-1248	75	U
11097-69-1	Aroclor-1254	75	U
11096-82-5	Aroclor-1260	75	U
Surrogate amount spiked		15.06	

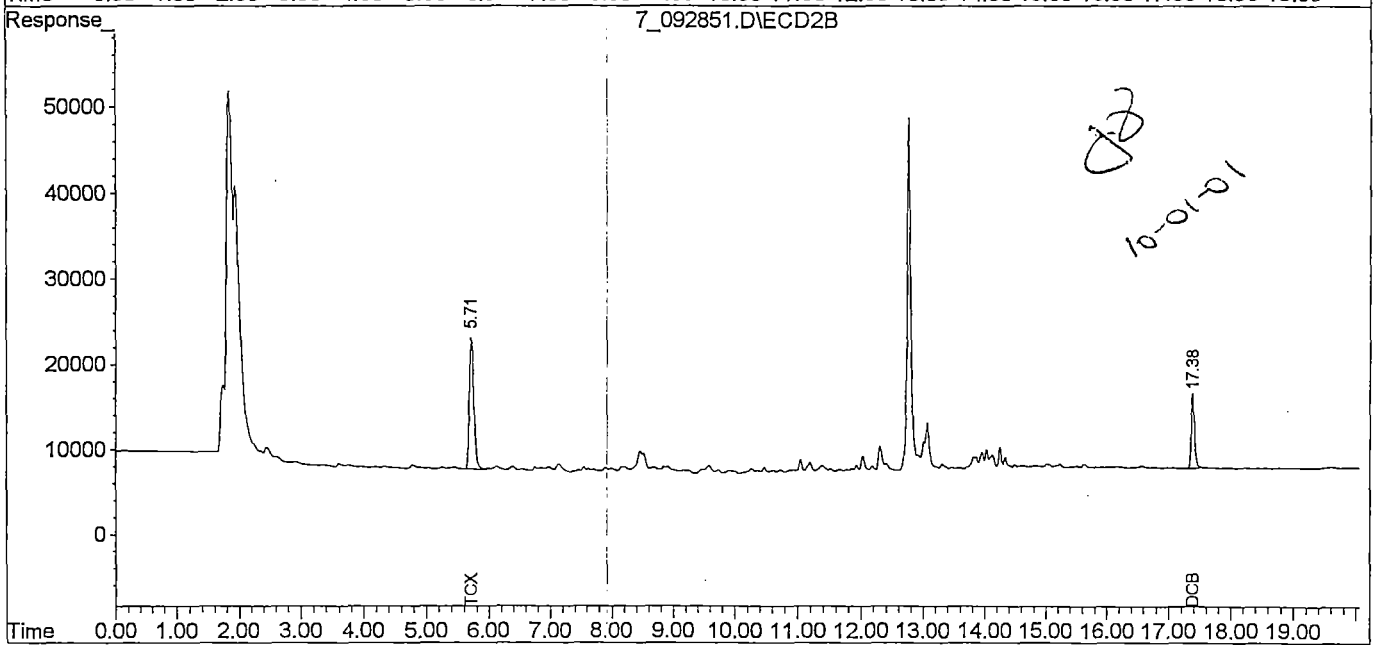
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092851.D\ECD1A.CH Vial: 51
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092851.D\ECD2B.CH
Acq On : 29 Sep 2001 3:33 Operator: SA
Sample : 47452.15 *E04G3 * Inst : HP_07
Misc : *EPA*30.9G/5.0ML*57 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:23 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





10-01-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092851.D\ECD1A.CH Vial: 51
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092851.D\ECD2B.CH
Acq On : 29 Sep 2001 3:33 Operator: SA
Sample : 47452.15 *E04G3 * Inst : HP_07
Misc : *EPA*30.9G/5.0ML*57 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:23 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.82	5.72	565769	767472	11.0	11.5	
	Spiked Amount 15.052			Recovery	=	73.08%	76.40%	
22)	S DCB	16.86	17.38	191551	321736	8.907	11.7	#
	Spiked Amount 15.052			Recovery	=	59.17%	77.73%	

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.

E04G4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Matrix: (soil/water) SOIL Lab Sample ID: 47452.16

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

% Moisture: 45 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/29/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

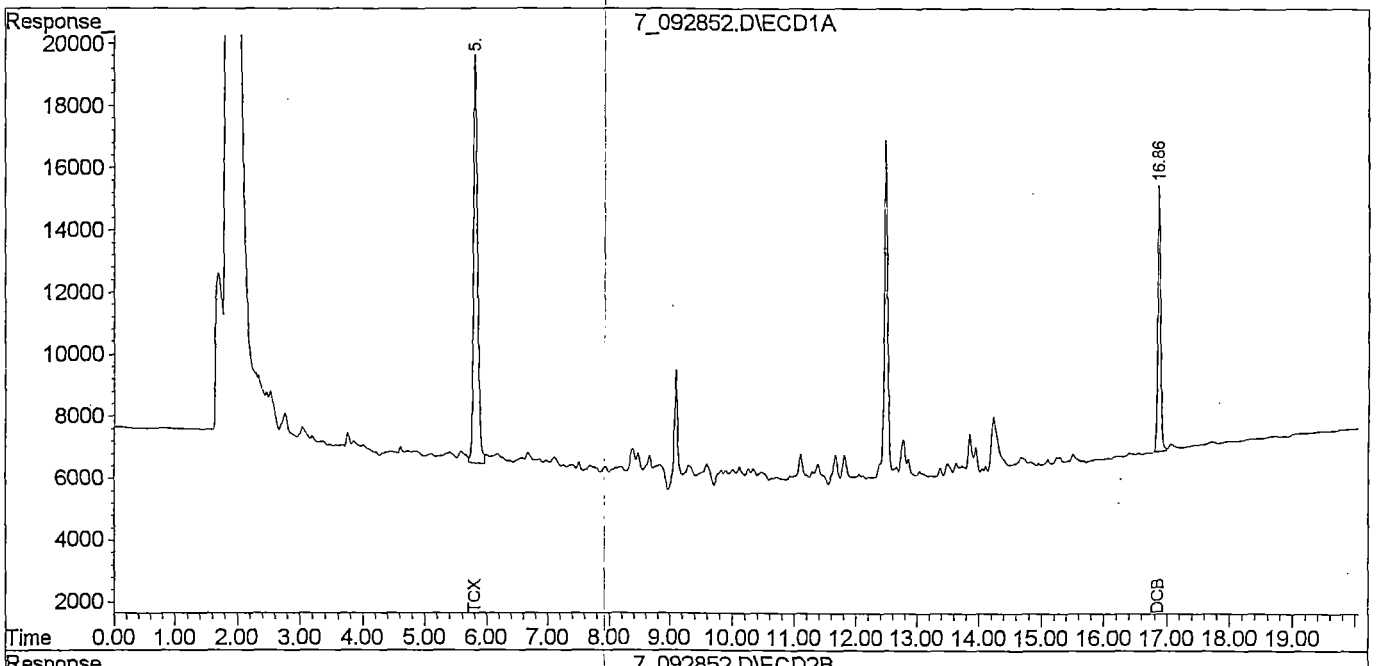
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	60	U
11104-28-2	Aroclor-1221	60	U
11141-16-5	Aroclor-1232	60	U
53469-21-9	Aroclor-1242	60	U
12672-29-6	Aroclor-1248	60	U
11097-69-1	Aroclor-1254	60	U
11096-82-5	Aroclor-1260	60	U
	Surrogate amount spiked	12.04	

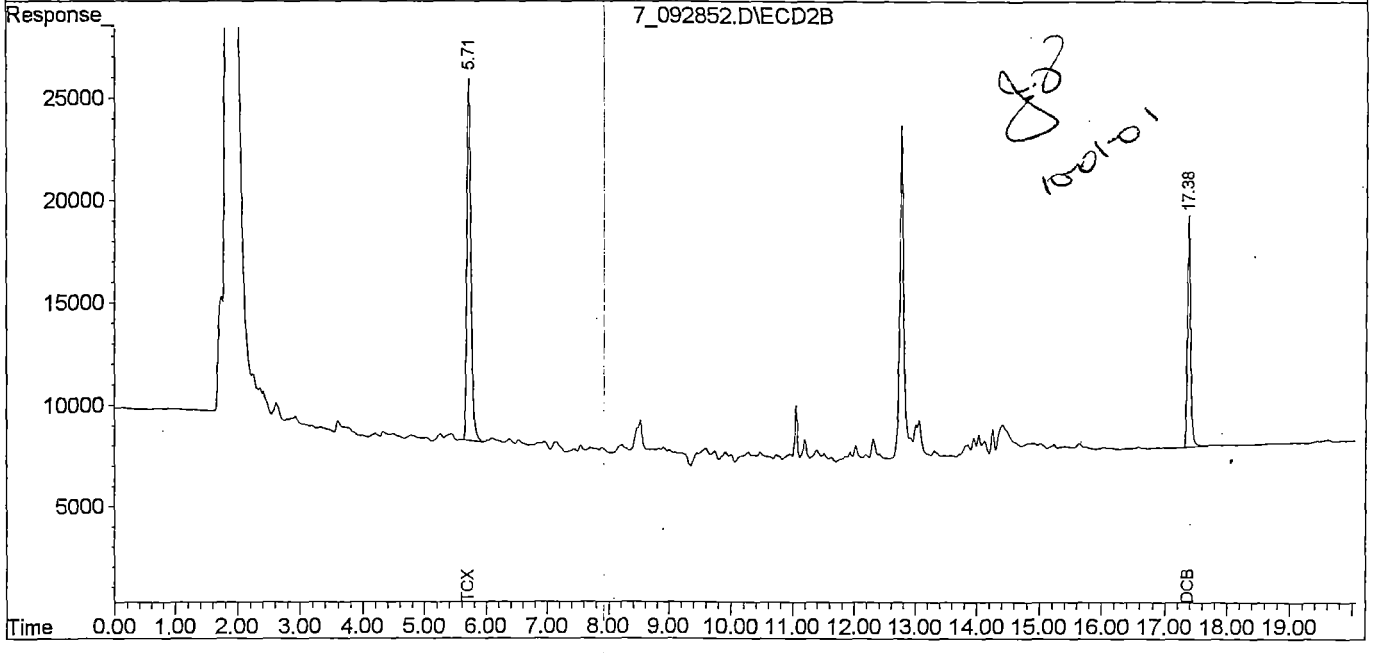
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092852.D\ECD1A.CH Vial: 52
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092852.D\ECD2B.CH
Acq On : 29 Sep 2001 3:57 Operator: SA
Sample : 47452.16 *E04G4 * Inst : HP_07
Misc : *EPA*30.2G/5.0ML*45 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:24 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





10-01-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092852.D\ECD1A.CH Vial: 52
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092852.D\ECD2B.CH
Acq On : 29 Sep 2001 3:57 Operator: SA
Sample : 47452.16 *E04G4 * Inst : HP_07
Misc : *EPA*30.2G/5.0ML*45 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:24 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.81	5.71	614706	840533	9.529	10.1
	Spiked Amount 12.041			Recovery	=	79.14%	83.88%
22)	S DCB	16.86	17.38	270291	404502	10.1	11.8
	Spiked Amount 12.041			Recovery	=	83.88%	98.00%
	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.

E04G5

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Matrix: (soil/water) SOIL Lab Sample ID: 47452.17

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

% Moisture: 40 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/29/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

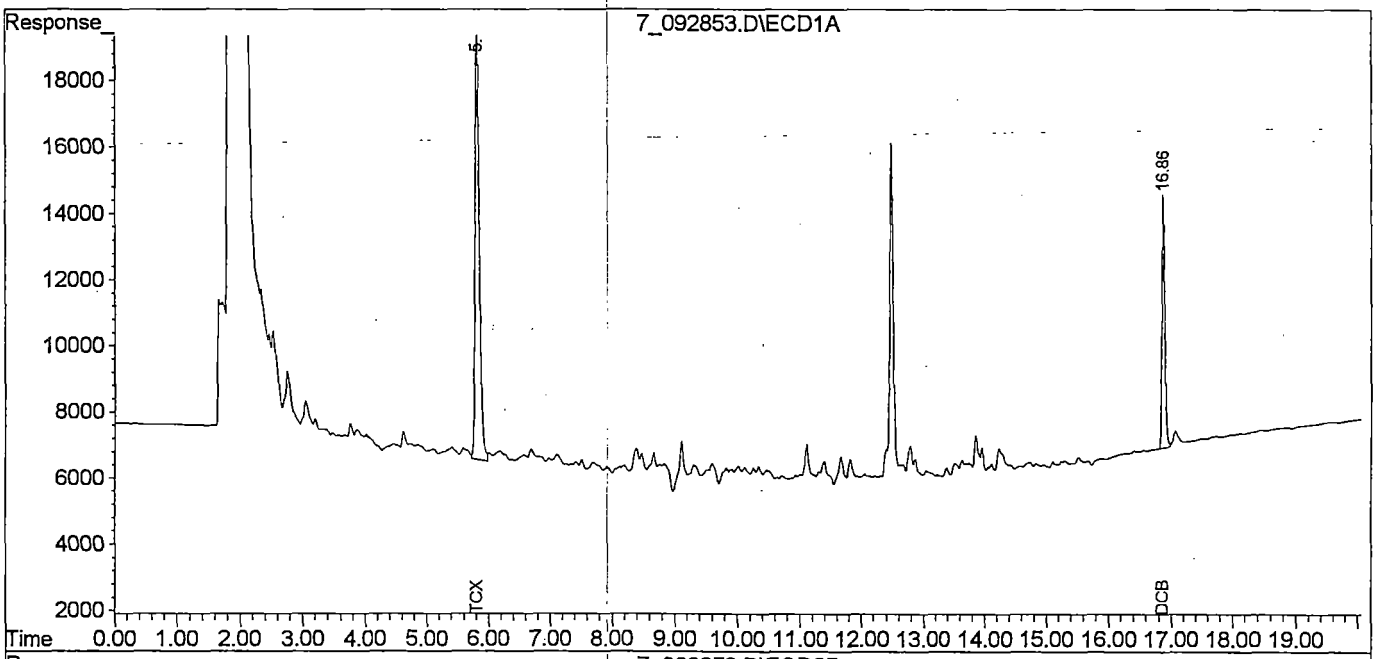
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	54	U
11104-28-2	Aroclor-1221	54	U
11141-16-5	Aroclor-1232	54	U
53469-21-9	Aroclor-1242	54	U
12672-29-6	Aroclor-1248	54	U
11097-69-1	Aroclor-1254	54	U
11096-82-5	Aroclor-1260	54	U
	Surrogate amount spiked	10.97	

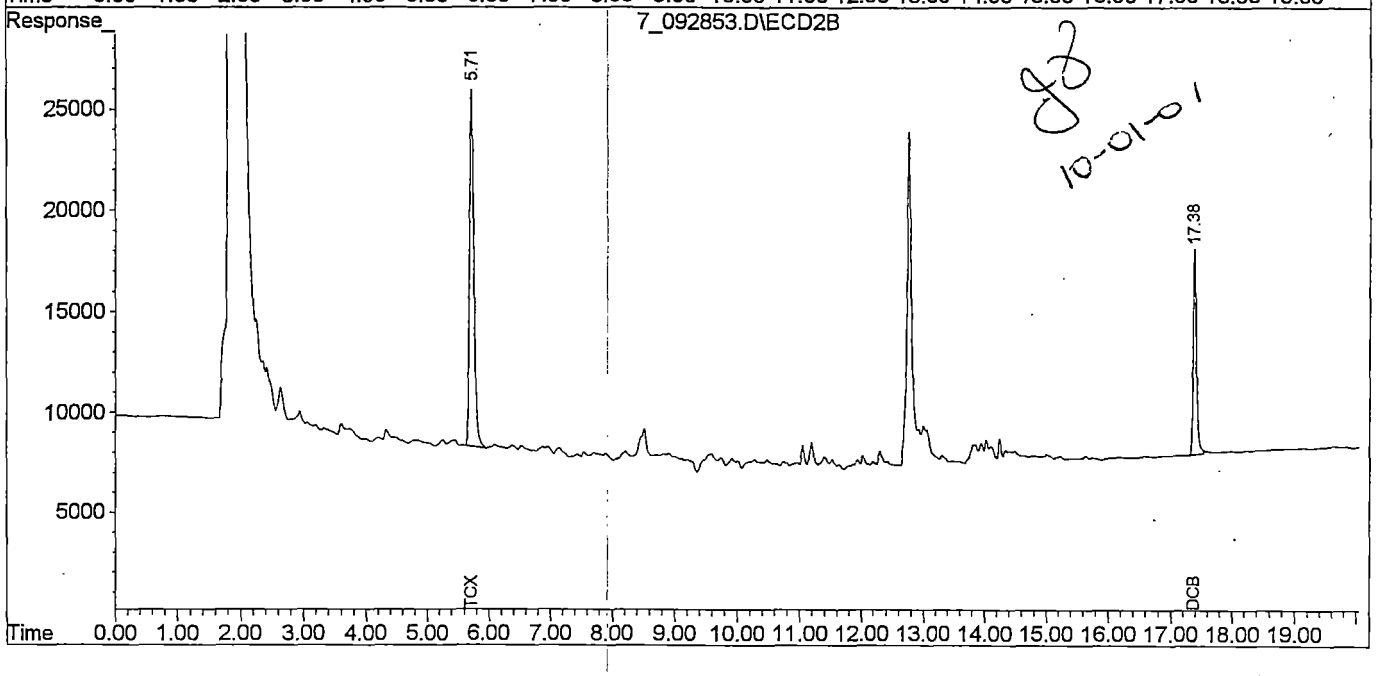
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092853.D\ECD1A.CH Vial: 53
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092853.D\ECD2B.CH
Acq On : 29 Sep 2001 4:21 Operator: SA
Sample : 47452.17 *E04G5 * Inst : HP_07
Misc : *EPA*30.4G/5.0ML*40 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:24 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





10-01-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092853.D\ECD1A.CH Vial: 53
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092853.D\ECD2B.CH
Acq On : 29 Sep 2001 4:21 Operator: SA
Sample : 47452.17 *E04G5 * Inst : HP_07
Misc : *EPA*30.4G/5.0ML*40 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:24 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.81	5.71	620403	868252	8.758	9.475
	Spiked Amount 10.965			Recovery	=	79.87%	86.41%
22)	S DCB	16.86	17.38	241775	375706	8.189	9.981m
	Spiked Amount 10.965			Recovery	=	74.68%	91.03%

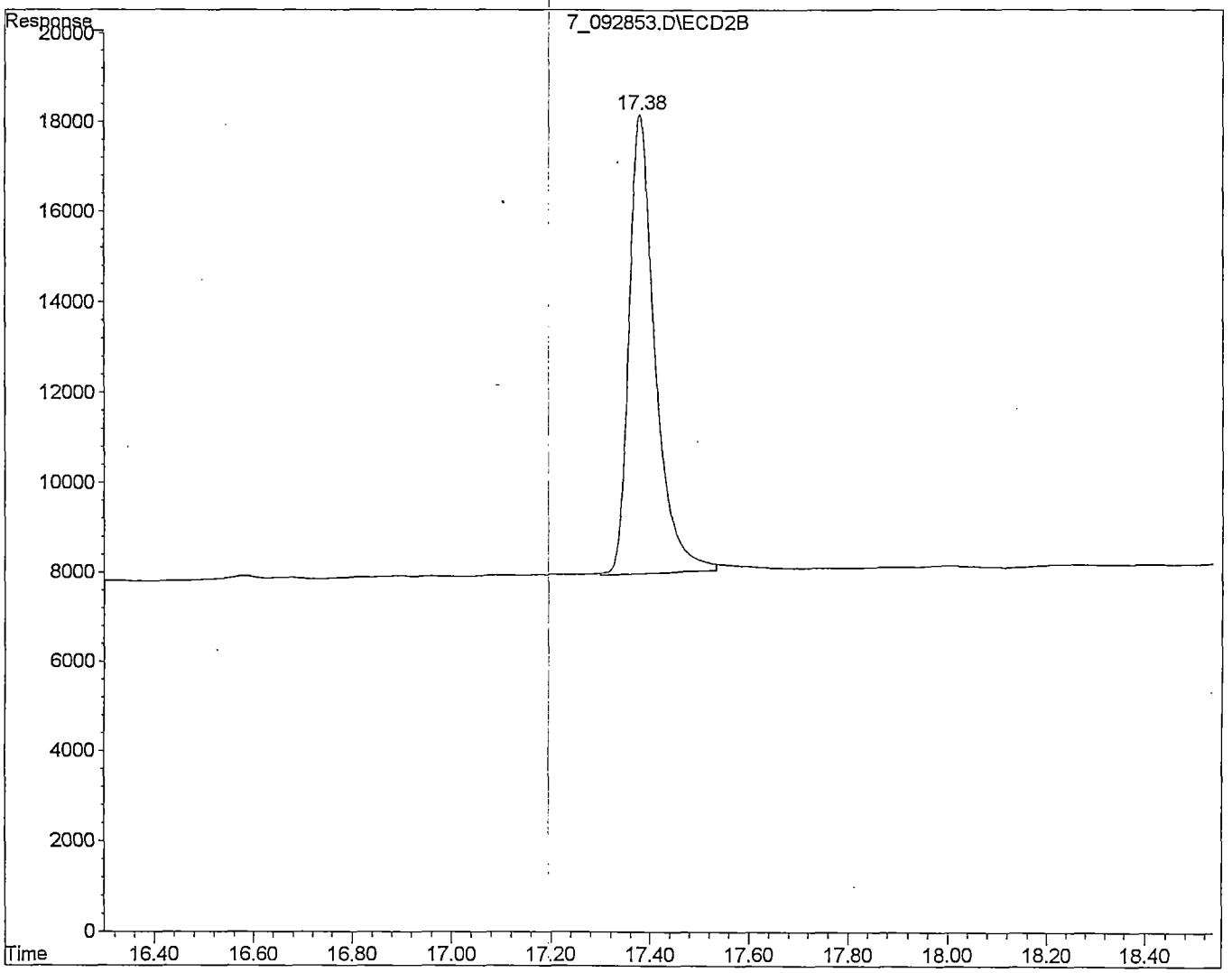
A 9-26-01

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\7\DATA\09_28_01\7_092853.D
Date Acquired: 29 Sep 2001 4:21
Inst: HP_07 Operator ID: SA
Name: 47452.17 *E04G5 *
Misc: *EPA*30.4G/5.0ML*40
Method: F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 29 8:24 2001 Quant Results File: XPCBI24.RES



DCB #2 17.38min area: 375706 m

Integration Time Range: 17.30 - 17.53

F:\HPCHEM\HP\7\DATA\09_28_01\7_092853.D
Report generated: Sat Sep 29 08:43:58 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E04G6

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Matrix: (soil/water) SOIL Lab Sample ID: 47452.18

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

% Moisture: 58 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/29/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

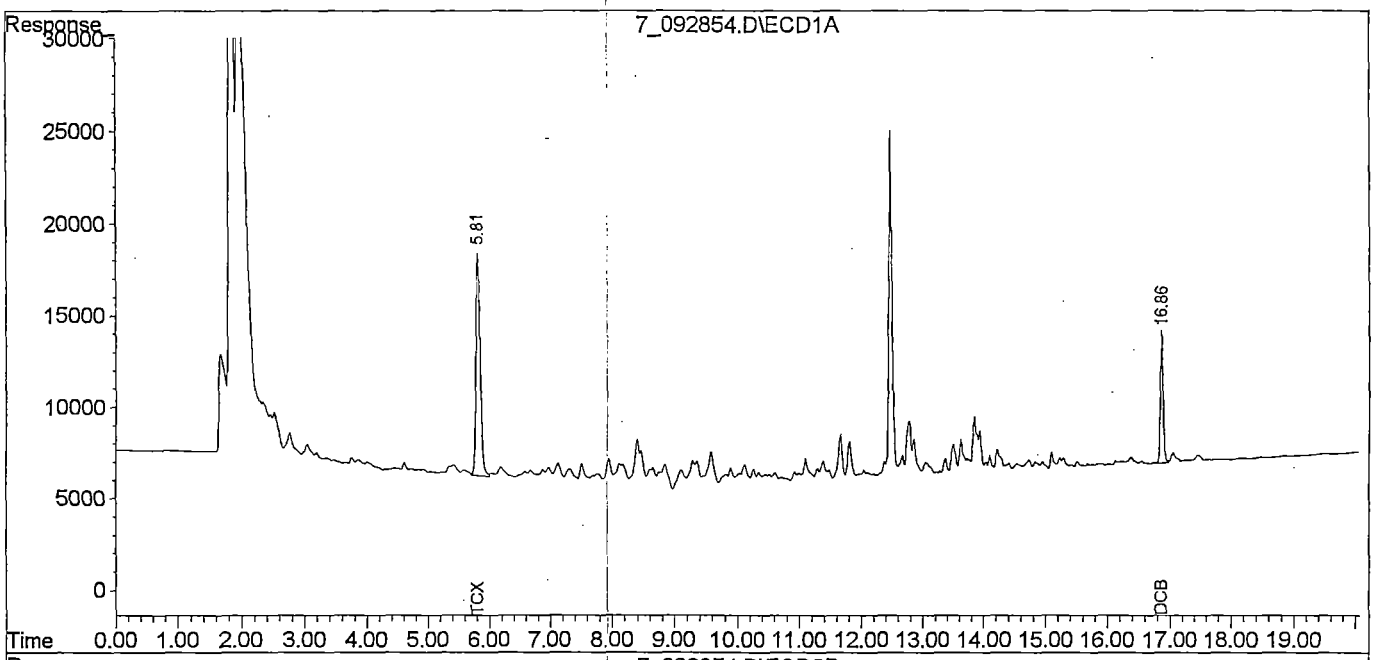
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	78	U
11104-28-2	Aroclor-1221	78	U
11141-16-5	Aroclor-1232	78	U
53469-21-9	Aroclor-1242	78	U
12672-29-6	Aroclor-1248	78	U
11097-69-1	Aroclor-1254	78	U
11096-82-5	Aroclor-1260	78	U
	Surrogate amount spiked	15.82	

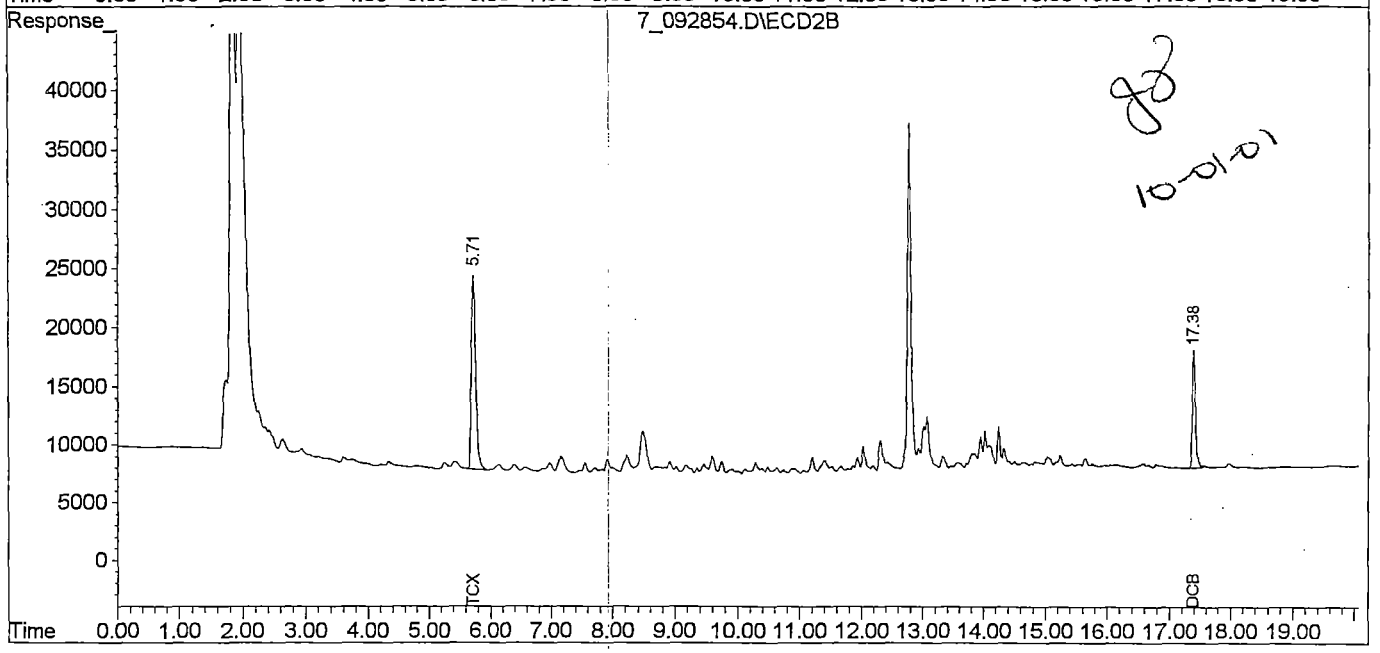
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092854.D\ECD1A.CH Vial: 54
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092854.D\ECD2B.CH
Acq On : 29 Sep 2001 4:45 Operator: SA
Sample : 47452.18 *E04G6 * Inst : HP_07
Misc : *EPA*30.1G/5.0ML*58 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:25 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





10-01-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092854.D\ECD1A.CH Vial: 54
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092854.D\ECD2B.CH
Acq On : 29 Sep 2001 4:45 Operator: SA
Sample : 47452.18 *E04G6 * Inst : HP_07
Misc : *EPA*30.1G/5.0ML*58 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:25 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.81	5.71	581355	806838	11.8	12.7	
	Spiked Amount 15.820			Recovery	=	74.59%	80.28%	
22)	S DCB	16.86	17.38	223897	365424	10.9	14.0	#
	Spiked Amount 15.820			Recovery	=	68.90%	88.49%	
	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.

E04G7

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Matrix: (soil/water) SOIL Lab Sample ID: 47452.19

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

% Moisture: 19 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/29/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

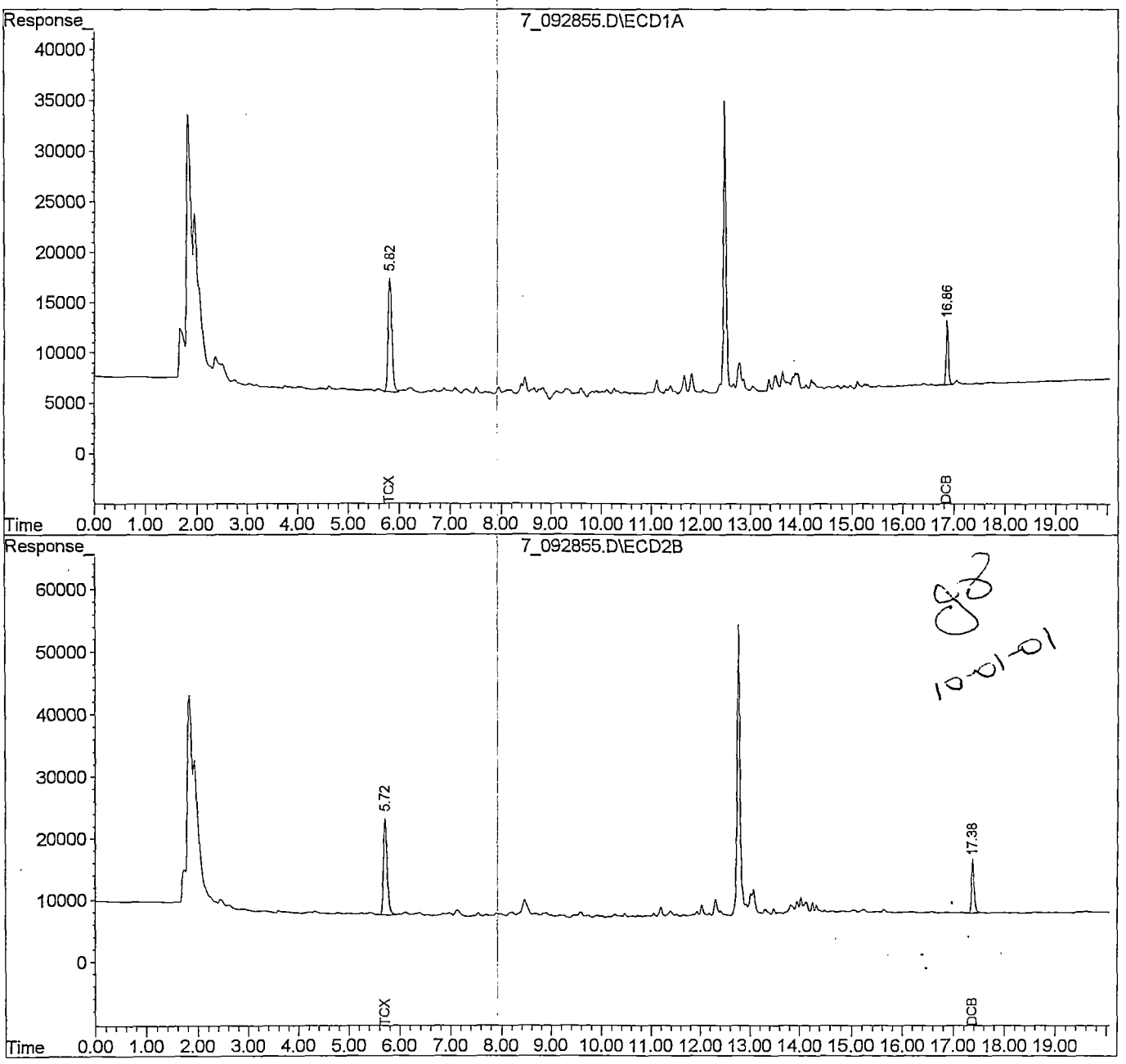
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	41	U
11104-28-2	Aroclor-1221	41	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	41	U
11096-82-5	Aroclor-1260	41	U
Surrogate amount spiked		8.23	

Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092855.D\ECD1A.CH Vial: 55
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092855.D\ECD2B.CH
Acq On : 29 Sep 2001 5:09 Operator: SA
Sample : 47452.19 *E04G7 * Inst : HP_07
Misc : *EPA*30G/5.0ML*19 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:26 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B



10-01-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092855.D\ECD1A.CH Vial: 55
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092855.D\ECD2B.CH
Acq On : 29 Sep 2001 5:09 Operator: SA
Sample : 47452.19 *E04G7 * Inst : HP_07
Misc : *EPA*30G/5.0ML*19 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:26 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.82	5.72	567836	786686	6.017	6.444
	Spiked Amount 8.230			Recovery	=	73.11%	78.29%
22)	S DCB	16.86	17.38	195660	310236	4.975	6.186
	Spiked Amount 8.230			Recovery	=	60.45%	75.16%
	Target Compounds:						

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E04G8

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Matrix: (soil/water) SOIL Lab Sample ID: 47452.20

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

% Moisture: 62 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/29/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

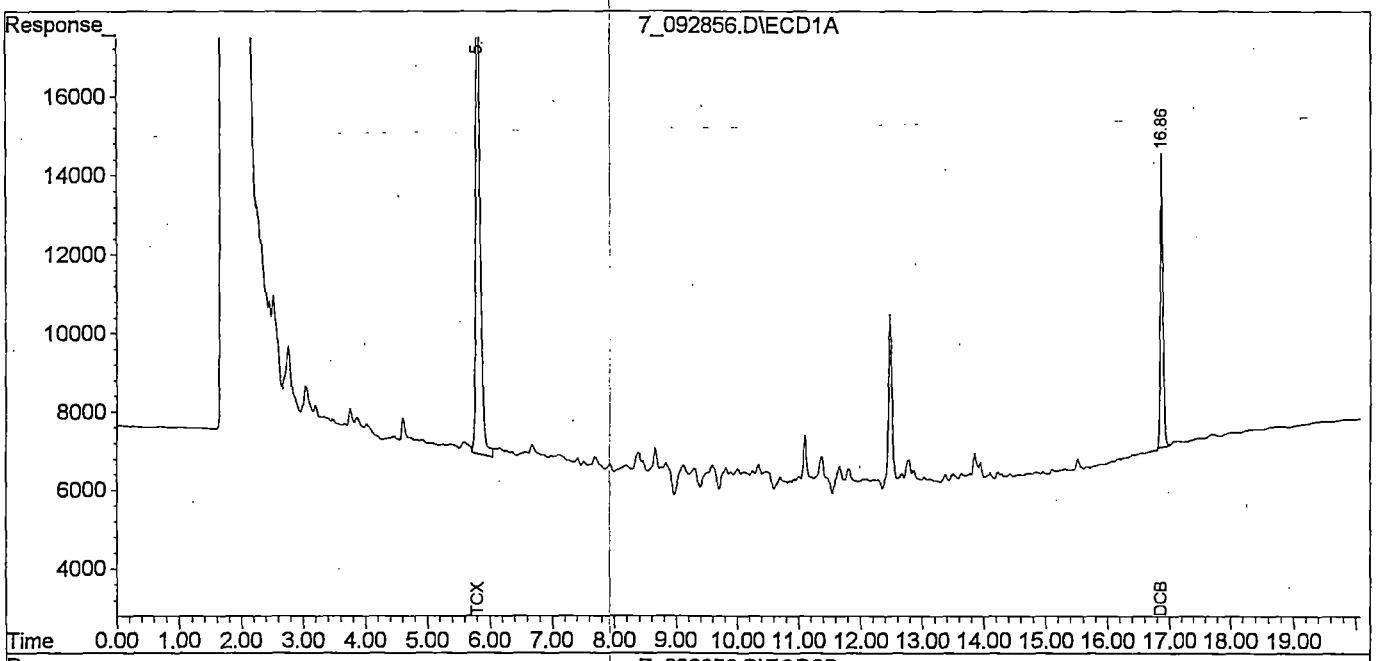
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	86	U
11104-28-2	Aroclor-1221	86	U
11141-16-5	Aroclor-1232	86	U
53469-21-9	Aroclor-1242	86	U
12672-29-6	Aroclor-1248	86	U
11097-69-1	Aroclor-1254	86	U
11096-82-5	Aroclor-1260	86	U
	Surrogate amount spiked	17.31	

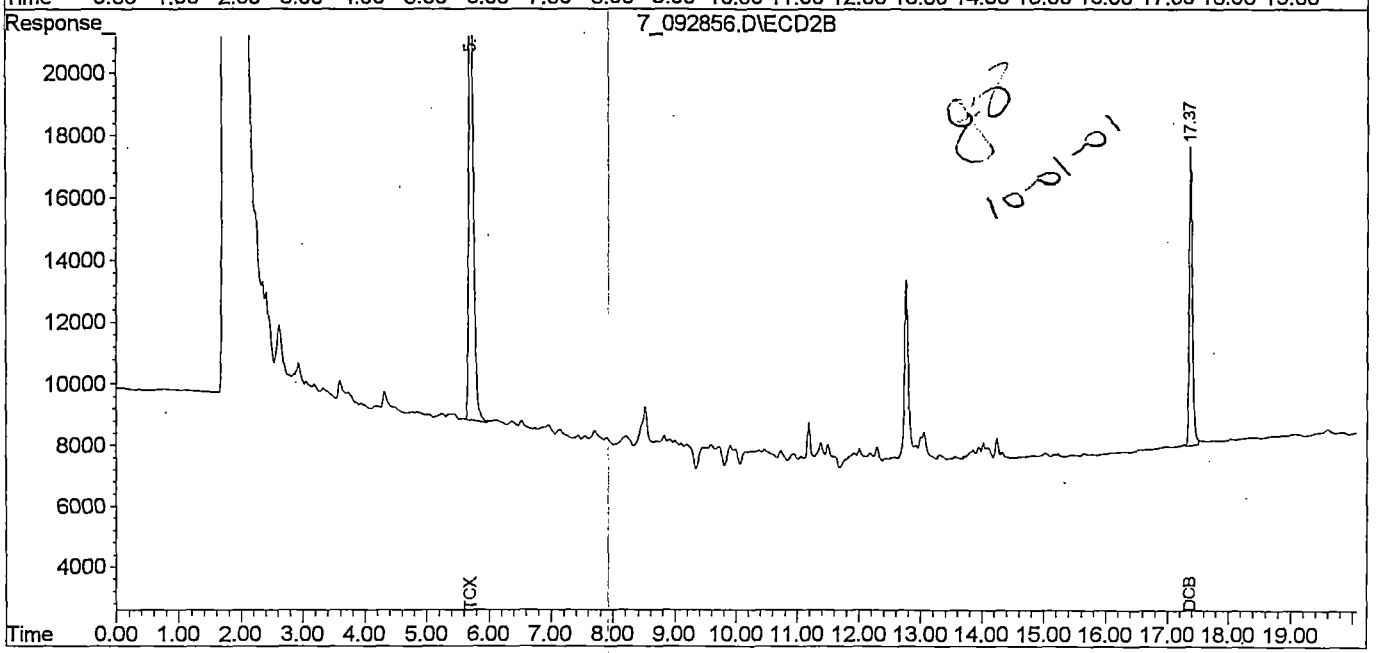
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092856.D\ECD1A.CH Vial: 56
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092856.D\ECD2B.CH
Acq On : 29 Sep 2001 5:33 Operator: SA
Sample : 47452.20 *E04G8 * Inst : HP_07
Misc : *EPA*30.4G/5.0ML*62 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:27 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





83
10-01-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092856.D\ECD1A.CH Vial: 56
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092856.D\ECD2B.CH
Acq On : 29 Sep 2001 5:33 Operator: SA
Sample : 47452.20 *E04G8 * Inst : HP_07
Misc : *EPA*30.4G/5.0ML*62 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:27 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.80	5.71	611089	819718	13.6	14.1
	Spiked Amount 17.313			Recovery	=	78.55%	81.44%
22)	S DCB	16.86f	17.37f	234217	345431	12.5	14.5m
	Spiked Amount 17.313			Recovery	=	72.20%	83.75%

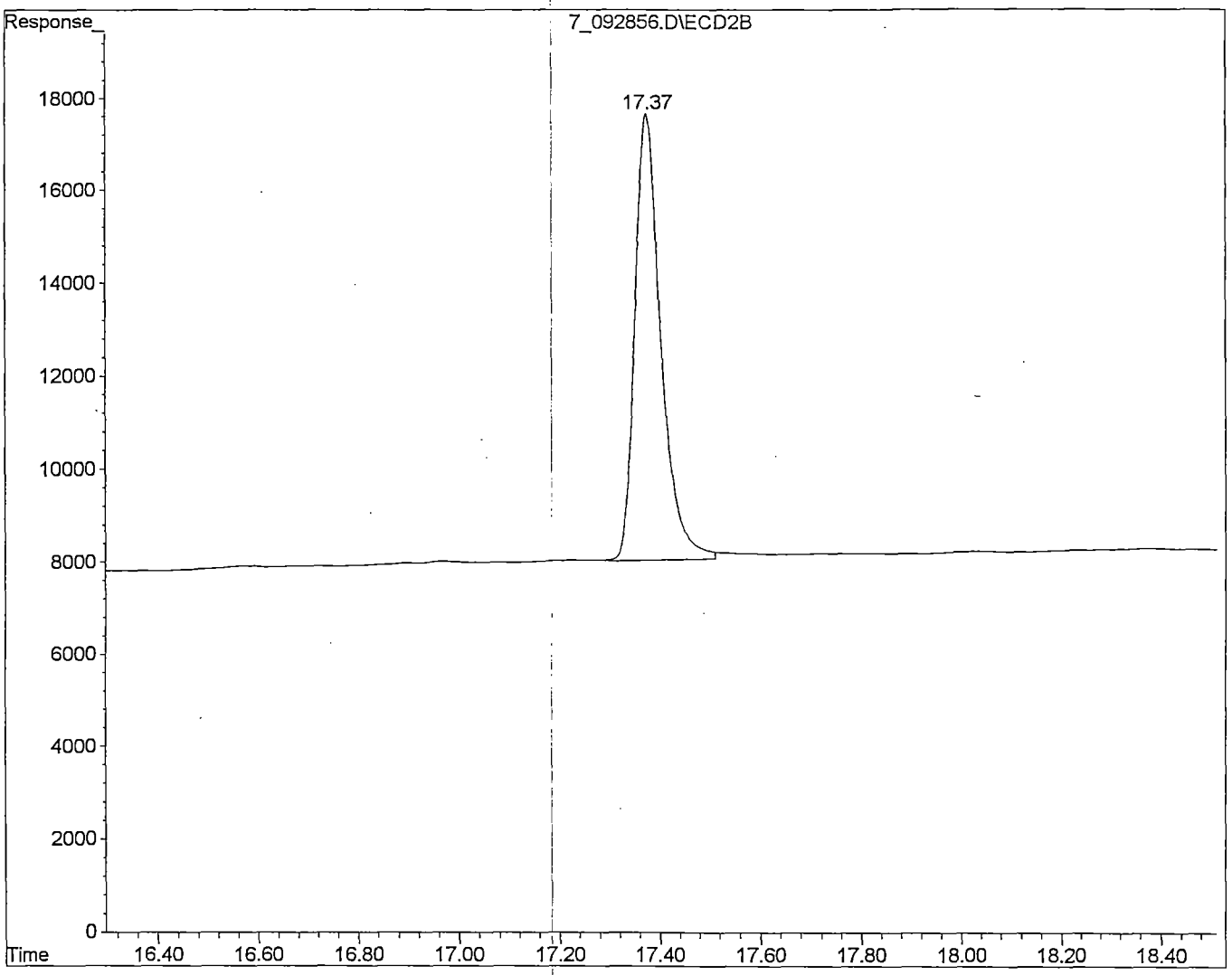
09-29-1

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_28_01\7_092856.D
Date Acquired: 29 Sep 2001 5:33
Inst: HP_07 Operator ID: SA
Name: 47452.20 *E04G8 *
Misc: *EPA*30.4G/5.0ML*62
Method: F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 29 8:27 2001 Quant Results File: XPCBI24.RES



A9.29.01

DCB #2 17.37min area: 345431 m

Integration Time Range: 17.30 - 17.51

F:\HPCHEM\HP\7\DATA\09_28_01\7_092856.D
Report generated: Sat Sep 29 08:44:02 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E04G9

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Matrix: (soil/water) SOIL Lab Sample ID: 47452.21

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

% Moisture: 59 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/29/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

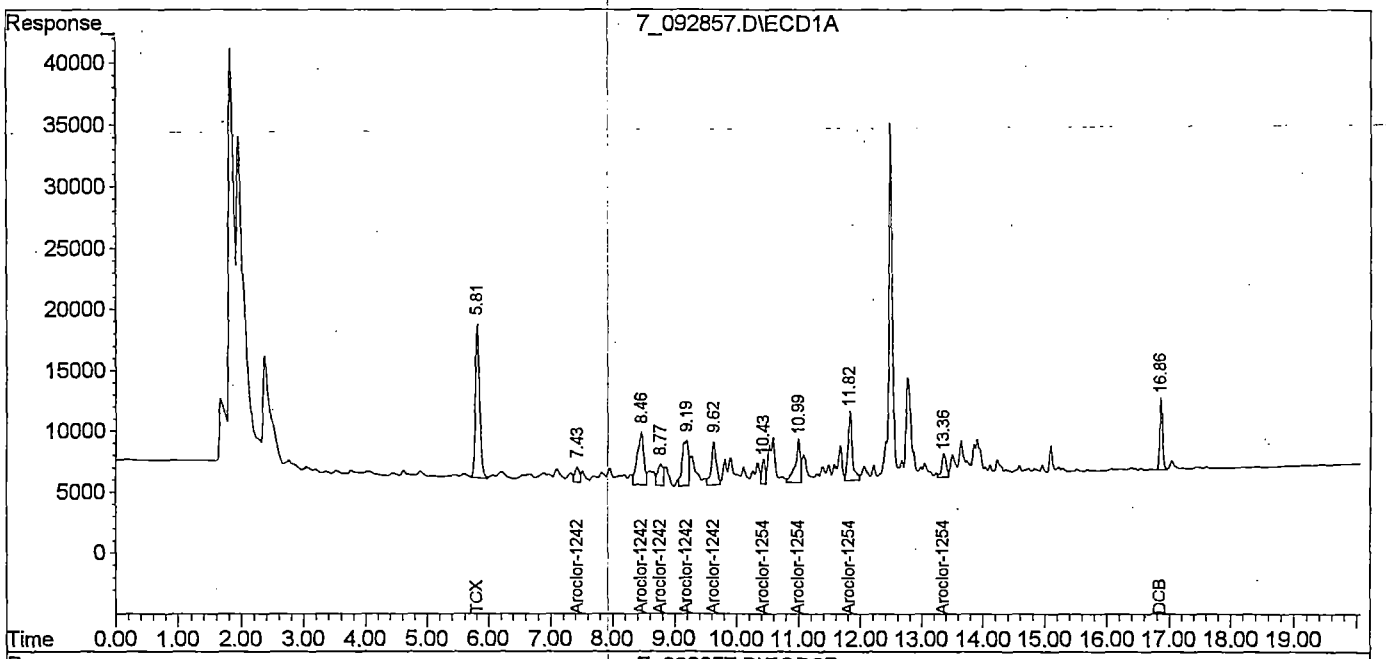
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	78	U
11104-28-2	Aroclor-1221	78	U
11141-16-5	Aroclor-1232	78	U
53469-21-9	Aroclor-1242	63	JP
12672-29-6	Aroclor-1248	78	U
11097-69-1	Aroclor-1254	35	JP
11096-82-5	Aroclor-1260	78	U
Surrogate amount spiked		15.73	

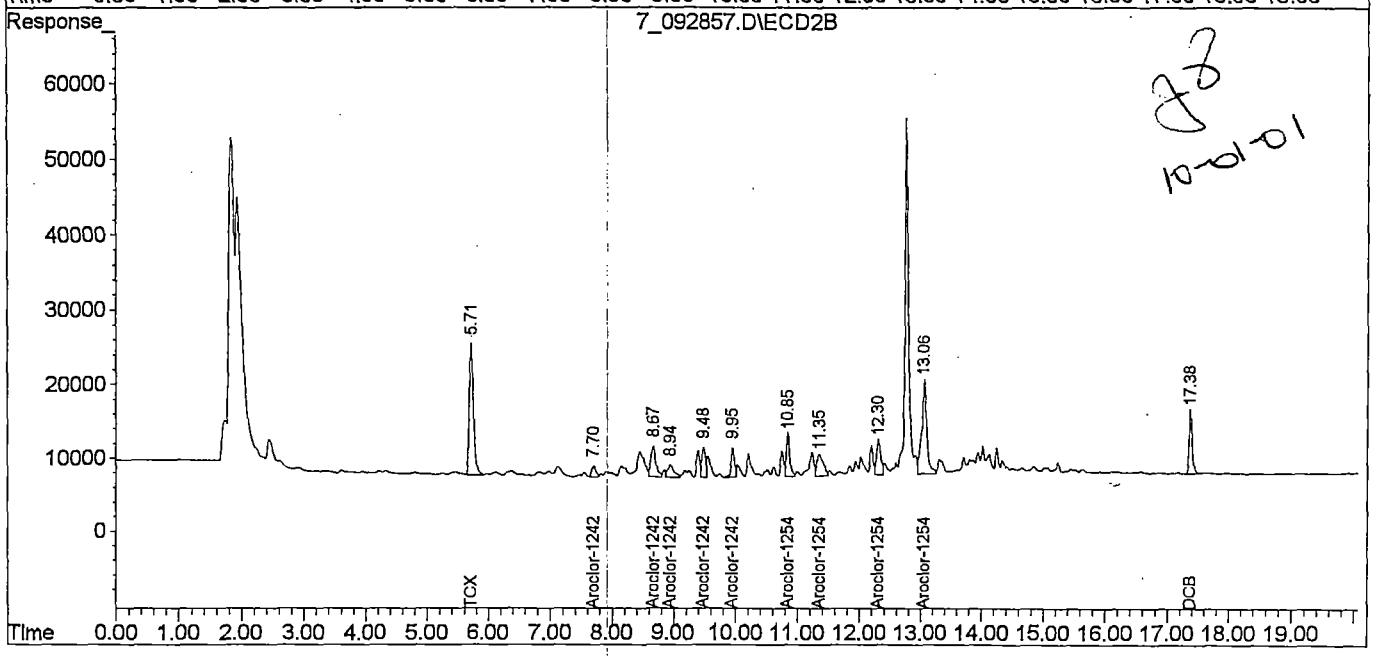
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092857.D\ECD1A.CH Vial: 57
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092857.D\ECD2B.CH
Acq On : 29 Sep 2001 5:57 Operator: SA
Sample : 47452.21 *E04G9 * Inst : HP_07
Misc : *EPA*31G/5.0ML*59 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:29 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





JB
10-01-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092857.D\ECD1A.CH Vial: 57
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092857.D\ECD2B.CH
Acq On : 29 Sep 2001 5:57 Operator: SA
Sample : 47452.21 *E04G9 * Inst : HP_07
Misc : *EPA*31G/5.0ML*59 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:29 2001 Quant Results File: XPCBI24.RES

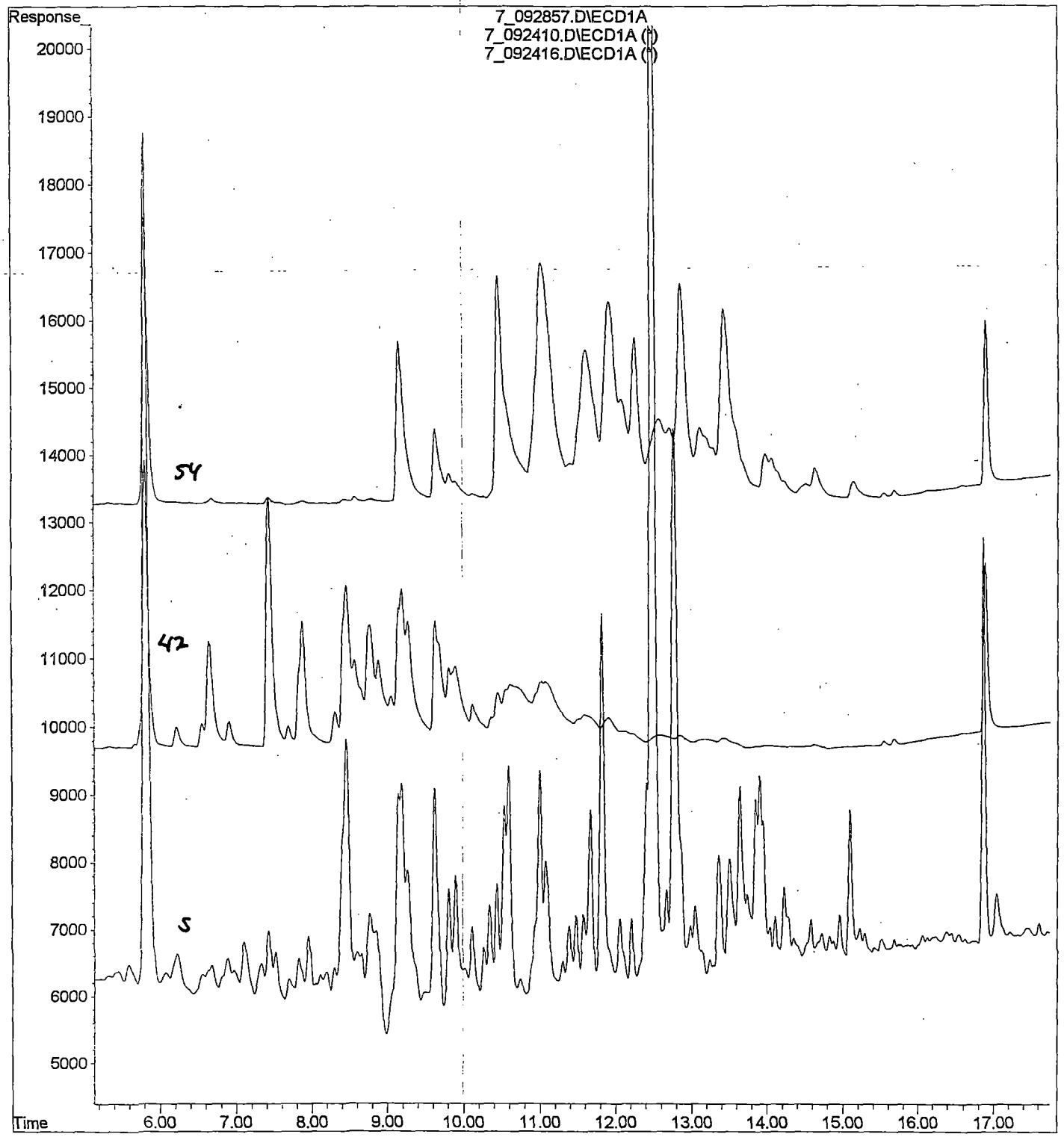
Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.81	5.71	624277	885043	12.6	13.9	
	Spiked Amount 15.736			Recovery	=	80.07%	88.33%	
22)	S DCB	16.86f	17.38f	182749	322657	8.883	12.3	#
	Spiked Amount 15.736			Recovery	=	56.45%	78.17%	
	Target Compounds:							
7)	L4 Aroclor-1242	7.43	7.70	61319	73878	25.2	22.1	
8)	L4 Aroclor-1242 {2}	8.46	8.67f	318861	240507	127.4	84.9	#
9)	L4 Aroclor-1242 {3}	8.77	8.94f	107854	122105	71.6	48.7	#
10)	L4 Aroclor-1242 {4}	9.19	9.48	257600	162688	140.3m	103.5	#
11)	L4 Aroclor-1242 {5}	9.62	9.95	198868	152614	115.4	58.4	#
	Sum Aroclor-1242			944502	751793	479.9	317.5	
	Average Aroclor-1242					95.974	63.500	
12)	L6 Aroclor-1254	10.44	10.85	77571	233168	18.1	56.0	#
13)	L6 Aroclor-1254 {2}	10.99	11.35f	198251	213363	30.4	60.8	#
14)	L6 Aroclor-1254 {3}	11.82f	12.30	276746	233063	68.1	34.1	#
15)	L6 Aroclor-1254 {4}	0.00	13.06	0	753404	N.D.	226.0	#
16)	L6 Aroclor-1254 {5}	13.36f	0.00	98939	0	22.8	N.D. d	#
	Sum Aroclor-1254			651507	1432999	139.4	376.9	
	Average Aroclor-1254					34.858	94.237	

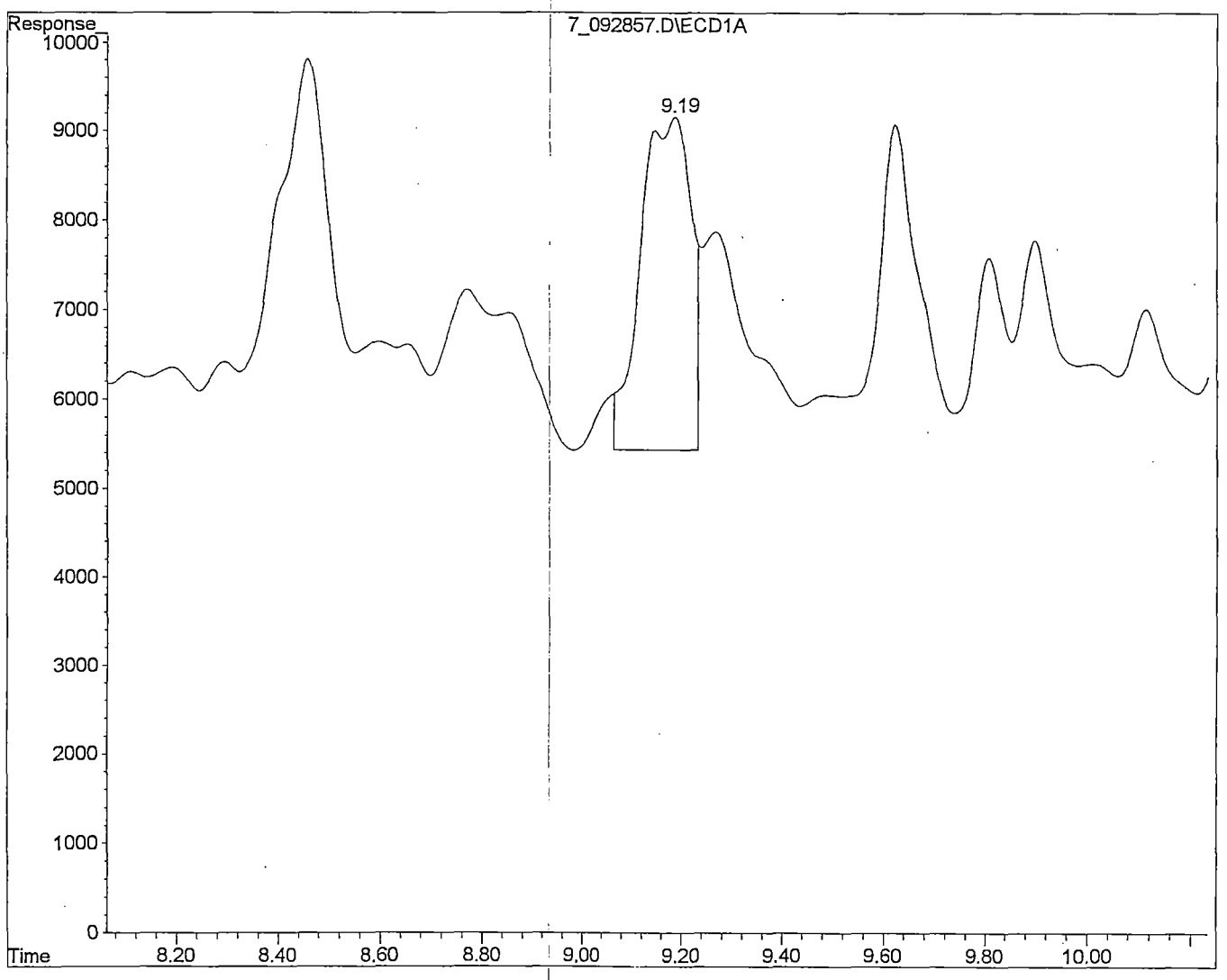
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

File : F:\HPCHEM\HP\7\DATA\09_28_01\7_092857.D
Operator : SA
Acquired : 29 Sep 2001 5:57 using AcqMethod OLM03.M
Instrument : HP_07
Sample Name: 47452.21 *E04G9 *
Misc Info : *EPA*31G/5.0ML*59
Vial Number: 57



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_28_01\7_092857.D
Date Acquired: 29 Sep 2001 5:57
Inst: HP_07 Operator ID: SA
Name: 47452.21 *E04G9 *
Misc: *EPA*31G/5.0ML*59
Method: F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 29 8:29 2001 Quant Results File: XPCBI24.RES



Aroclor-1242 {4} 9.19min area: 257600 m

Integration Time Range: 9.06 - 9.23

F:\HPCHEM\HP\7\DATA\09_28_01\7_092857.D
Report generated: Sat Sep 29 08:44:03 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E04H0

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Matrix: (soil/water) SOIL Lab Sample ID: 47452.22

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

% Moisture: 54 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/29/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

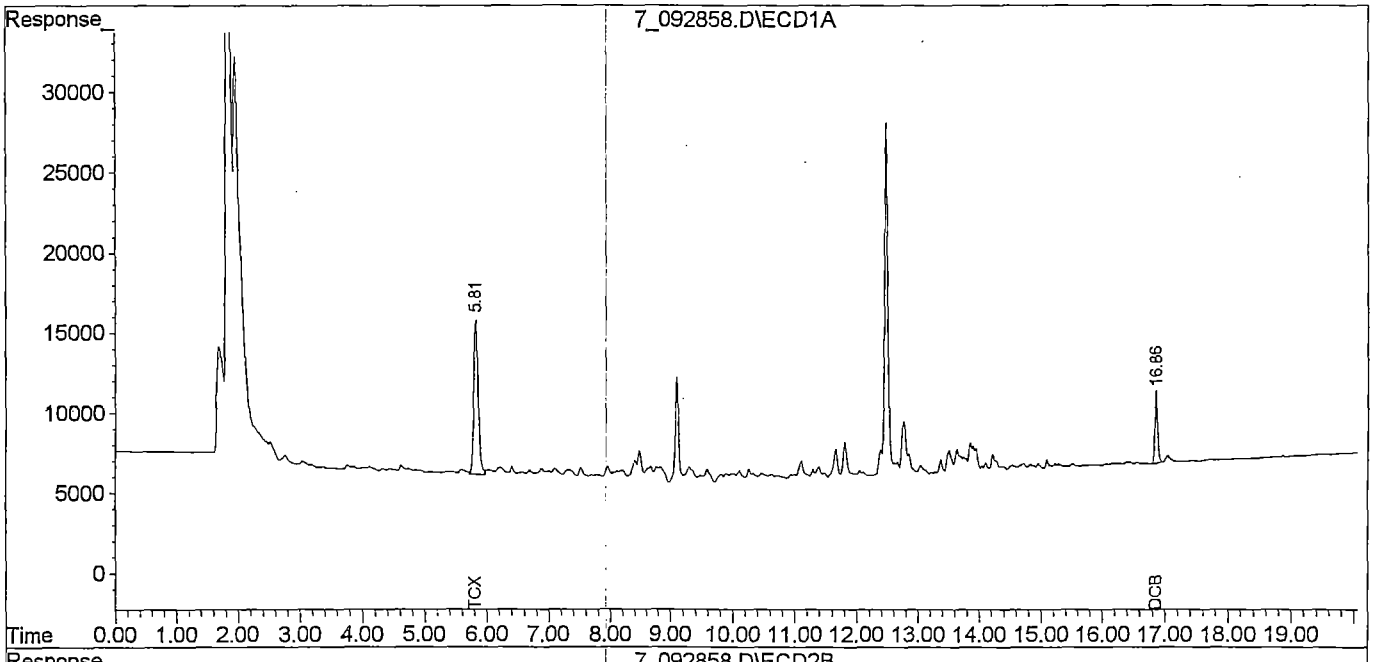
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	72	U
11104-28-2	Aroclor-1221	72	U
11141-16-5	Aroclor-1232	72	U
53469-21-9	Aroclor-1242	72	U
12672-29-6	Aroclor-1248	72	U
11097-69-1	Aroclor-1254	72	U
11096-82-5	Aroclor-1260	72	U
	Surrogate amount spiked	14.44	

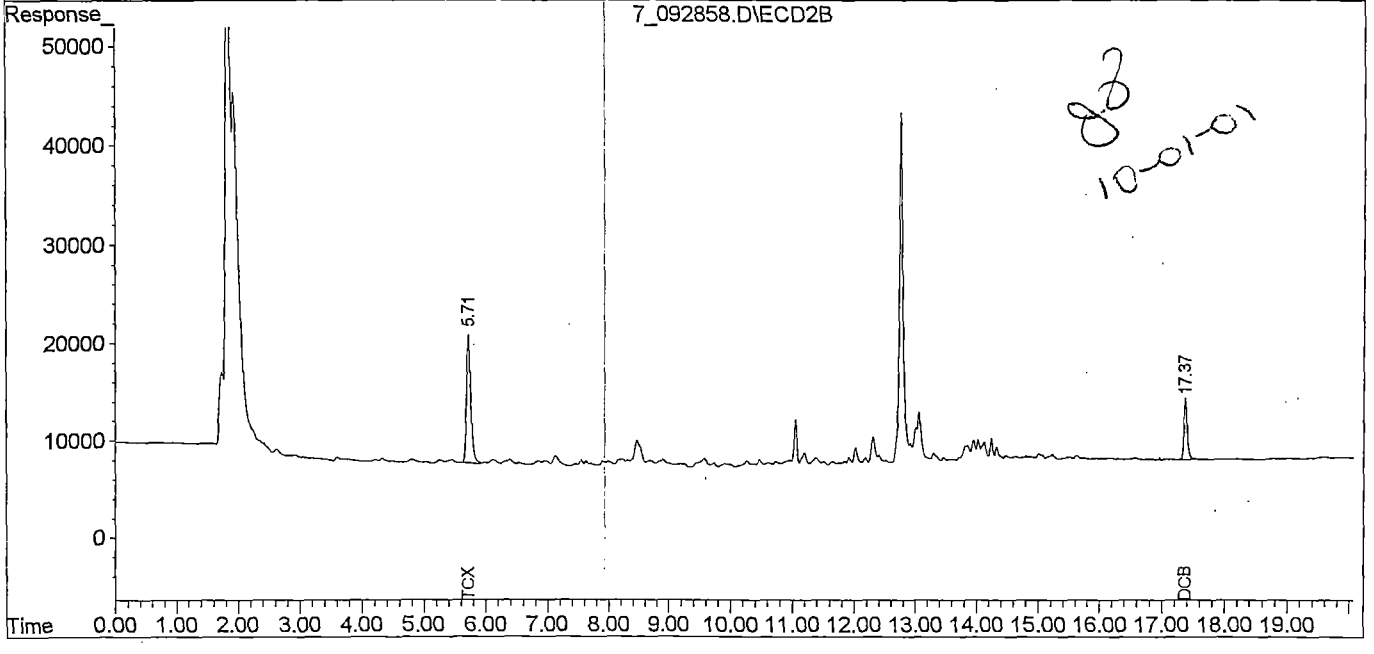
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092858.D\ECD1A.CH Vial: 58
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092858.D\ECD2B.CH
Acq On : 29 Sep 2001 6:21 Operator: SA
Sample : 47452.22 *E04H0 * Inst : HP_07
Misc : *EPA*30.1G/5.0ML*54 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:31 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





8 10-01-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092858.D\ECD1A.CH Vial: 58
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092858.D\ECD2B.CH
Acq On : 29 Sep 2001 6:21 Operator: SA
Sample : 47452.22 *E04H0 * Inst : HP_07
Misc : *EPA*30.1G/5.0ML*54 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:31 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.81	5.71	476749	654466	8.866	9.409	
	Spiked Amount 14.445			Recovery	=	61.38%	65.14%	
22)	S DCB	16.86f	17.37f	138047	230179	6.160	8.055	#
	Spiked Amount 14.445			Recovery	=	42.65%	55.76%	

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.: 29684 SDG No.: E04F1

Instrument ID: HP_07A Date(s) Analyzed: 09/24/01 09/24/01

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

GC Column: PEST I ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1242 L1	0.10	1	7.43	2108580	MEAN
		2	8.46	1655990	
		3	8.77	1222840	
		4	9.20	1561770	
		5	9.63	1399270	
Aroclor 1242 L2	0.20	1	7.43	2072195	MEAN
		2	8.46	1801130	
		3	8.76	1220075	
		4	9.19	1515240	
		5	9.63	1393450	
Aroclor 1242 L3	0.40	1	7.43	2060558	MEAN
		2	8.46	2129678	
		3	8.76	1260290	
		4	9.19	1533635	
		5	9.63	1432658	
Aroclor 1242 L4	0.80	1	7.43	1739406	MEAN
		2	8.46	2066808	
		3	8.76	1128016	
		4	9.19	1345296	
		5	9.64	1301959	
Aroclor 1242 L5	1.60	1	7.44	1596929	MEAN
		2	8.46	2196166	
		3	8.76	1090816	
		4	9.20	1265980	
		5	9.64	1253853	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	7.43	7.38	7.48	1915534	12.1
	2	8.46	8.41	8.51	1969954	11.7
	3	8.76	8.71	8.81	1184408	6.0
	4	9.19	9.14	9.24	1444384	9.1
	5	9.63	9.58	9.68	1356238	5.5

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Instrument ID: HP_07B Date(s) Analyzed: 09/24/01 09/24/01

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

GC Column: PEST II ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1242 L1	0.10	1	7.71	2689610	MEAN
		2	8.73	1736960	
		3	9.01	2080370	
		4	9.51	1242530	
		5	9.99	2171610	
Aroclor 1242 L2	0.20	1	7.71	2709715	MEAN
		2	8.72	1896710	
		3	9.00	2021065	
		4	9.50	1213605	
		5	9.99	2062330	
Aroclor 1242 L3	0.40	1	7.71	2825680	MEAN
		2	8.71	2278478	
		3	8.99	2081073	
		4	9.50	1296938	
		5	9.99	2126620	
Aroclor 1242 L4	0.80	1	7.71	2488326	MEAN
		2	8.70	2356175	
		3	8.99	1854396	
		4	9.50	1206926	
		5	9.98	1948085	
Aroclor 1242 L5	1.60	1	7.71	2441883	MEAN
		2	8.70	2875996	
		3	8.98	1831991	
		4	9.50	1226359	
		5	9.98	1974643	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	7.71	7.66	7.76	2631043	6.1
	2	8.71	8.66	8.76	2228864	19.9
	3	8.99	8.94	9.04	1973779	6.2
	4	9.50	9.45	9.55	1237272	2.9
	5	9.99	9.94	10.04	2056658	4.7

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Instrument ID: HP_07A Date(s) Analyzed: 09/24/01 09/24/01

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

GC Column: PEST I ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1254 L1	0.10	1	10.45	3379220	MEAN
		2	11.02	5405500	
		3	11.91	3146300	
		4	12.85	2772250	
		5	13.43	3515240	
Aroclor 1254 L2	0.20	1	10.46	3511455	MEAN
		2	11.02	5424195	
		3	11.89	3228620	
		4	12.84	2723225	
		5	13.42	3563190	
Aroclor 1254 L3	0.40	1	10.46	3374630	MEAN
		2	11.02	5128995	
		3	11.88	3135740	
		4	12.84	2470655	
		5	13.41	3302593	
Aroclor 1254 L4	0.80	1	10.45	3337059	MEAN
		2	11.01	4913861	
		3	11.87	3192066	
		4	12.82	2349801	
		5	13.40	3328243	
Aroclor 1254 L5	1.60	1	10.44	3301483	MEAN
		2	11.00	4782551	
		3	11.86	3273208	
		4	12.82	2297443	
		5	13.39	3335751	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	10.45	10.40	10.50	3380769	2.4
	2	11.01	10.96	11.06	5131021	5.6
	3	11.88	11.83	11.93	3195187	1.8
	4	12.83	12.78	12.88	2522675	8.5
	5	13.41	13.36	13.46	3409003	3.5

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Instrument ID: HP_07B Date(s) Analyzed: 09/24/01 09/24/01

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

GC Column: PEST II ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1254 L1	0.10	1	10.88	3027730	MEAN
		2	11.32	2505360	
		3	12.31	5171380	
		4	13.11	2842100	
		5	13.80	5112600	
Aroclor 1254 L2	0.20	1	10.88	3148390	MEAN
		2	11.31	2648500	
		3	12.30	5194570	
		4	13.10	2715840	
		5	13.80	4907735	
Aroclor 1254 L3	0.40	1	10.87	3162418	MEAN
		2	11.30	2680533	
		3	12.29	5115613	
		4	13.09	2490758	
		5	13.79	4518598	
Aroclor 1254 L4	0.80	1	10.87	3406800	MEAN
		2	11.28	2866023	
		3	12.26	5434424	
		4	13.08	2490231	
		5	13.77	4434684	
Aroclor 1254 L5	1.60	1	10.86	3647359	MEAN
		2	11.27	3100403	
		3	12.24	5934461	
		4	13.06	2573833	
		5	13.76	4856373	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	10.87	10.82	10.92	3278539	7.6
	2	11.30	11.25	11.35	2760164	8.3
	3	12.28	12.23	12.33	5370089	6.3
	4	13.09	13.04	13.14	2622552	5.9
	5	13.78	13.73	13.83	4765998	5.9

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Instrument ID: HP_07A Date(s) Analyzed: 09/24/01 09/24/01

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

GC Column: PEST I ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1016 L1	0.10	1	6.65	1077180	MEAN
		2	7.88	1600320	
		3	8.46	1987960	
		4	8.88	1070250	
		5	9.27	1861140	
Aroclor 1016 L2	0.20	1	6.65	988545	MEAN
		2	7.88	1486050	
		3	8.46	1903230	
		4	8.88	1017350	
		5	9.27	1687650	
Aroclor 1016 L3	0.40	1	6.65	932793	MEAN
		2	7.88	1397323	
		3	8.46	2060015	
		4	8.88	971905	
		5	9.27	1468223	
Aroclor 1016 L4	0.80	1	6.64	868773	MEAN
		2	7.88	1309909	
		3	8.46	2284074	
		4	8.88	924088	
		5	9.27	1270824	
Aroclor 1016 L5	1.60	1	6.64	806999	MEAN
		2	7.87	1230809	
		3	8.46	2488533	
		4	8.88	902711	
		5	9.27	1093381	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	6.64	6.59	6.69	934858	11.2
	2	7.88	7.83	7.93	1404882	10.3
	3	8.46	8.41	8.51	2144762	11.1
	4	8.88	8.83	8.93	977261	7.0
	5	9.27	9.22	9.32	1476243	20.9

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Instrument ID: HP_07A Date(s) Analyzed: 09/24/01 09/24/01

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

GC Column: PEST I ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1260 L1	0.10	1	12.24	2902140	MEAN
		2	12.85	4365040	
		3	13.43	2948480	
		4	14.07	1557860	
		5	14.64	3201240	
Aroclor 1260 L2	0.20	1	12.24	2634480	MEAN
		2	12.84	4024900	
		3	13.43	2796475	
		4	14.07	1388355	
		5	14.63	2953605	
Aroclor 1260 L3	0.40	1	12.24	2442930	MEAN
		2	12.84	3818658	
		3	13.42	2736463	
		4	14.06	1303320	
		5	14.63	2880635	
Aroclor 1260 L4	0.80	1	12.24	2226479	MEAN
		2	12.83	3563676	
		3	13.41	2711203	
		4	14.06	1230595	
		5	14.62	2781665	
Aroclor 1260 L5	1.60	1	12.22	2146302	MEAN
		2	12.81	3544614	
		3	13.39	2871101	
		4	14.05	1237558	
		5	14.61	2875789	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	12.23	12.18	12.28	2470466	12.5
	2	12.83	12.78	12.88	3863378	8.9
	3	13.42	13.37	13.47	2812744	3.5
	4	14.06	14.01	14.11	1343538	10.1
	5	14.63	14.58	14.68	2938587	5.4

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Instrument ID: HP_07B Date(s) Analyzed: 09/24/01 09/24/01

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

GC Column: PEST II ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1016 L1	0.10	1	6.83	1232100	MEAN
		2	8.22	2000010	
		3	9.42	1217790	
		4	9.58	3236040	
		5	10.00	2475290	
Aroclor 1016 L2	0.20	1	6.83	1107575	MEAN
		2	8.22	1827705	
		3	9.42	1096025	
		4	9.58	2853150	
		5	10.00	2236210	
Aroclor 1016 L3	0.40	1	6.83	1081218	MEAN
		2	8.22	1715468	
		3	9.42	1059435	
		4	9.58	2525563	
		5	9.99	2141950	
Aroclor 1016 L4	0.80	1	6.82	1049825	MEAN
		2	8.22	1673248	
		3	9.42	1081556	
		4	9.57	2262854	
		5	9.99	2124864	
Aroclor 1016 L5	1.60	1	6.82	1031311	MEAN
		2	8.22	1680058	
		3	9.41	1131693	
		4	9.56	2086887	
		5	9.98	2244620	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	6.82	6.77	6.87	1100406	7.2
	2	8.22	8.17	8.27	1779298	7.8
	3	9.42	9.37	9.47	1117300	5.6
	4	9.57	9.52	9.62	2592899	17.8
	5	9.99	9.94	10.04	2244587	6.2

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Instrument ID: HP_07B Date(s) Analyzed: 09/24/01 09/24/01

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

GC Column: PEST II ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1260 L1	0.10	1	12.66	4152030	MEAN
		2	13.11	3520130	
		3	13.41	3390600	
		4	14.46	1965150	
		5	14.91	3673720	
Aroclor 1260 L2	0.20	1	12.65	3719765	MEAN
		2	13.11	3169435	
		3	13.40	3116080	
		4	14.46	1814740	
		5	14.91	3258095	
Aroclor 1260 L3	0.40	1	12.65	3481140	MEAN
		2	13.10	3056535	
		3	13.40	2972798	
		4	14.46	1766398	
		5	14.90	3162178	
Aroclor 1260 L4	0.80	1	12.64	3346065	MEAN
		2	13.08	3034178	
		3	13.40	2931361	
		4	14.45	1765295	
		5	14.90	3219878	
Aroclor 1260 L5	1.60	1	12.62	3443903	MEAN
		2	13.06	3325099	
		3	13.38	3139264	
		4	14.44	1930401	
		5	14.88	3600239	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	12.64	12.59	12.69	3628581	8.9
	2	13.09	13.04	13.14	3221075	6.3
	3	13.40	13.35	13.45	3110021	5.8
	4	14.45	14.40	14.50	1848397	5.1
	5	14.90	14.85	14.95	3382822	7.0

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Instrument ID: HP_07A Date(s) Analyzed: 09/24/01 09/24/01

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

GC Column: PEST I ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1221	0.40	1	6.22	530135	SINGLE
		2	6.55	268680	POINT
		3	6.64	1353018	
		4			
		5			
Aroclor 1232	0.40	1	7.43	1106093	SINGLE
		2	7.88	770100	POINT
		3	8.31	152358	
		4	8.46	1016980	
		5			
Aroclor 1248	0.40	1	7.88	497933	SINGLE
		2	9.19	2263415	POINT
		3	9.82	819238	
		4	10.45	942583	
		5	11.07	1882870	

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Instrument ID: HP_07B Date(s) Analyzed: 09/24/01 09/24/01

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

GC Column: PEST II ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1221	0.40	1	6.38	565115	SINGLE
		2	6.68	358548	POINT
		3	6.82	1811613	
		4			
		5			
Aroclor 1232	0.40	1	7.71	1445713	SINGLE
		2	7.93	242688	POINT
		3	8.15	170433	
		4	8.22	749290	
		5			
Aroclor 1248	0.40	1	8.72	1054023	SINGLE
		2	8.97	1188378	POINT
		3	9.42	1355340	
		4	10.56	537215	
		5	11.29	899248	

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

GC Column: PEST I ID: 0.32(mm) Init. Calib Date(s): 09/24/01 09/24/01

Client Sample No.(PIBLK): PIBLK7C Date Analyzed : 09/28/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1332

Client Sample No.: AR1660L37C Date Analyzed : 09/28/01

Lab Sample ID : 5-293-7 Time Analyzed : 1356

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	6.64	6.59	6.69	981240	934858	5.0
Aroclor 1016 #2	7.87	7.83	7.93	1501243	1404882	6.9
Aroclor 1016 #3	8.45	8.41	8.51	2194985	2144762	2.3
Aroclor 1016 #4	8.87	8.83	8.93	1041973	977261	6.6
Aroclor 1016 #5	9.26	9.22	9.32	1575275	1476243	6.7
Aroclor 1260 #1	12.22	12.18	12.28	2455500	2470466	0.6
Aroclor 1260 #2	12.82	12.78	12.88	3809573	3863378	1.4
Aroclor 1260 #3	13.40	13.37	13.47	2764830	2812744	1.7
Aroclor 1260 #4	14.05	14.01	14.11	1304478	1343538	2.9
Aroclor 1260 #5	14.61	14.58	14.68	2797518	2938587	4.8

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.: 29684 SDG No.: E04F1

GC Column: PEST II ID: 0.32(mm) Init. Calib Date(s): 09/24/01 09/24/01

Client Sample No.(PIBLK): PIBLK7C Date Analyzed : 09/28/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1332

Client Sample No.: AR1660L37C Date Analyzed : 09/28/01

Lab Sample ID : 5-293-7 Time Analyzed : 1356

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	6.82	6.77	6.87	1155523	1100406	5.0
Aroclor 1016 #2	8.21	8.17	8.27	1842250	1779298	3.5
Aroclor 1016 #3	9.40	9.37	9.47	1225030	1117300	9.6
Aroclor 1016 #4	9.56	9.52	9.62	2567615	2592899	1.0
Aroclor 1016 #5	9.98	9.94	10.04	2324573	2244587	3.6
Aroclor 1260 #1	12.63	12.59	12.69	3515390	3628581	3.1
Aroclor 1260 #2	13.08	13.04	13.14	3181340	3221075	1.2
Aroclor 1260 #3	13.38	13.35	13.45	3014245	3110021	3.1
Aroclor 1260 #4	14.44	14.40	14.50	1802623	1848397	2.5
Aroclor 1260 #5	14.88	14.85	14.95	3203788	3382822	5.3

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.: 29684 SDG No.: E04F1

GC Column: PEST I ID: 0.32(mm) Init. Calib Date(s): 09/24/01 09/24/01

Client Sample No.(PIBLK): PIBLK7D Date Analyzed : 09/28/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1819

Client Sample No.: AR1660L37E Date Analyzed : 09/28/01

Lab Sample ID : 5-293-7 Time Analyzed : 1843

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	6.63	6.59	6.69	1002710	934858	7.3
Aroclor 1016 #2	7.86	7.83	7.93	1522808	1404882	8.4
Aroclor 1016 #3	8.44	8.41	8.51	2233970	2144762	4.2
Aroclor 1016 #4	8.87	8.83	8.93	1045413	977261	7.0
Aroclor 1016 #5	9.25	9.22	9.32	1618763	1476243	9.7
Aroclor 1260 #1	12.22	12.18	12.28	2534600	2470466	2.6
Aroclor 1260 #2	12.82	12.78	12.88	3936705	3863378	1.9
Aroclor 1260 #3	13.41	13.37	13.47	2852325	2812744	1.4
Aroclor 1260 #4	14.05	14.01	14.11	1388395	1343538	3.3
Aroclor 1260 #5	14.61	14.58	14.68	3054623	2938587	4.0

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

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

GC Column: PEST II ID: 0.32(mm) Init. Calib Date(s): 09/24/01 09/24/01

Client Sample No.(PIBLK): PIBLK7D Date Analyzed : 09/28/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1819

Client Sample No.: AR1660L37E Date Analyzed : 09/28/01

Lab Sample ID : 5-293-7 Time Analyzed : 1843

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	6.81	6.77	6.87	1171690	1100406	6.5
Aroclor 1016 #2	8.20	8.17	8.27	1901263	1779298	6.9
Aroclor 1016 #3	9.40	9.37	9.47	1221880	1117300	9.4
Aroclor 1016 #4	9.56	9.52	9.62	2774015	2592899	7.0
Aroclor 1016 #5	9.97	9.94	10.04	2386103	2244587	6.3
Aroclor 1260 #1	12.63	12.59	12.69	3688003	3628581	1.6
Aroclor 1260 #2	13.08	13.04	13.14	3222138	3221075	0.0
Aroclor 1260 #3	13.38	13.35	13.45	3165753	3110021	1.8
Aroclor 1260 #4	14.44	14.40	14.50	1897945	1848397	2.7
Aroclor 1260 #5	14.89	14.85	14.95	3434663	3382822	1.5

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

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

GC Column: PEST I ID: 0.32(mm) Init. Calib Date(s): 09/24/01 09/24/01

Client Sample No.(PIBLK): PIBLK7E Date Analyzed : 09/29/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 0109

Client Sample No.: AR1660L37G Date Analyzed : 09/29/01

Lab Sample ID : 5-293-7 Time Analyzed : 0133

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	6.64	6.59	6.69	986368	934858	5.5
Aroclor 1016 #2	7.87	7.83	7.93	1494728	1404882	6.4
Aroclor 1016 #3	8.46	8.41	8.51	2331645	2144762	8.7
Aroclor 1016 #4	8.88	8.83	8.93	1029293	977261	5.3
Aroclor 1016 #5	9.26	9.22	9.32	1483090	1476243	0.5
Aroclor 1260 #1	12.23	12.18	12.28	2375708	2470466	3.8
Aroclor 1260 #2	12.82	12.78	12.88	3702635	3863378	4.2
Aroclor 1260 #3	13.40	13.37	13.47	2728458	2812744	3.0
Aroclor 1260 #4	14.05	14.01	14.11	1242115	1343538	7.6
Aroclor 1260 #5	14.61	14.58	14.68	2640510	2938587	10.1

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.: 29684 SDG No.: E04F1

GC Column: PEST II ID: 0.32(mm) Init. Calib Date(s): 09/24/01 09/24/01

Client Sample No.(PIBLK): PIBLK7E Date Analyzed : 09/29/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 0109

Client Sample No.: AR1660L37G Date Analyzed : 09/29/01

Lab Sample ID : 5-293-7 Time Analyzed : 0133

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	6.82	6.77	6.87	1277908	1100406	16.1*
Aroclor 1016 #2	8.21	8.17	8.27	1960145	1779298	10.2
Aroclor 1016 #3	9.41	9.37	9.47	1342823	1117300	20.2*
Aroclor 1016 #4	9.56	9.52	9.62	2520465	2592899	2.8
Aroclor 1016 #5	9.98	9.94	10.04	2478690	2244587	10.4
Aroclor 1260 #1	12.63	12.59	12.69	3662225	3628581	0.9
Aroclor 1260 #2	13.07	13.04	13.14	3453970	3221075	7.2
Aroclor 1260 #3	13.38	13.35	13.45	3112460	3110021	0.1
Aroclor 1260 #4	14.44	14.40	14.50	1864778	1848397	0.9
Aroclor 1260 #5	14.88	14.85	14.95	3253528	3382822	3.8

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.: 29684 SDG No.: E04F1

GC Column: PEST I ID: 0.32(mm) Init. Calib Date(s): 09/24/01 09/24/01

Client Sample No.(PIBLK): PIBLK7F Date Analyzed : 09/29/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 0757

Client Sample No.: AR1660L37I Date Analyzed : 09/29/01

Lab Sample ID : 5-293-7 Time Analyzed : 0821

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	6.63	6.59	6.69	984945	934858	5.4
Aroclor 1016 #2	7.86	7.83	7.93	1478798	1404882	5.3
Aroclor 1016 #3	8.44	8.41	8.51	2454115	2144762	14.4
Aroclor 1016 #4	8.86	8.83	8.93	1014153	977261	3.8
Aroclor 1016 #5	9.25	9.22	9.32	1407430	1476243	4.7
Aroclor 1260 #1	12.22	12.18	12.28	2343850	2470466	5.1
Aroclor 1260 #2	12.81	12.78	12.88	3695340	3863378	4.4
Aroclor 1260 #3	13.39	13.37	13.47	2748250	2812744	2.3
Aroclor 1260 #4	14.04	14.01	14.11	1251703	1343538	6.8
Aroclor 1260 #5	14.60	14.58	14.68	2658415	2938587	9.5

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

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

GC Column: PEST II ID: 0.32(mm) Init. Calib Date(s): 09/24/01 09/24/01

Client Sample No.(PIBLK): PIBLK7F Date Analyzed : 09/29/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 0757

Client Sample No.: AR1660L37I Date Analyzed : 09/29/01

Lab Sample ID : 5-293-7 Time Analyzed : 0821

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	6.81	6.77	6.87	1296028	1100406	17.8*
Aroclor 1016 #2	8.20	8.17	8.27	1938458	1779298	8.9
Aroclor 1016 #3	9.40	9.37	9.47	1324438	1117300	18.5*
Aroclor 1016 #4	9.55	9.52	9.62	2410778	2592899	7.0
Aroclor 1016 #5	9.97	9.94	10.04	2435058	2244587	8.5
Aroclor 1260 #1	12.62	12.59	12.69	3615468	3628581	0.4
Aroclor 1260 #2	13.06	13.04	13.14	3451565	3221075	7.2
Aroclor 1260 #3	13.37	13.35	13.45	3089393	3110021	0.7
Aroclor 1260 #4	14.43	14.40	14.50	1880263	1848397	1.7
Aroclor 1260 #5	14.87	14.85	14.95	3413108	3382822	0.9

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.: 29684 SAS No.: SDG No.: E04F1

GC Column: PEST I ID: 0.32(mm) Init. Calib. Date(s): 09/24/01

Instrument ID: HP_07A

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	RESC7J	5-171-7	09/24/01	1654	5.82	16.89
02	AR1221L37I	5-420-6	09/24/01	1718	5.81	16.88
03	AR1232L37I	5-422-6	09/24/01	1743	5.81	16.89
04	AR1242L17I	5-11-7	09/24/01	1807	5.81	16.88
05	AR1242L27I	5-10-7	09/24/01	1831	5.81	16.88
06	AR1242L37I	5-9-7	09/24/01	1855	5.81	16.88
07	AR1242L47I	5-8-7	09/24/01	1920	5.82	16.88
08	AR1242L57I	5-7-7	09/24/01	1944	5.82	16.88
09	AR1248L37I	5-424-6	09/24/01	2008	5.81	16.89
10	AR1254L17I	5-6-7	09/24/01	2033	5.81	16.89
11	AR1254L27I	5-5-7	09/24/01	2057	5.81	16.88
12	AR1254L37I	5-4-7	09/24/01	2121	5.82	16.88
13	AR1254L47I	5-3-7	09/24/01	2145	5.82	16.88
14	AR1254L57I	5-2-7	09/24/01	2209	5.81	16.88
15	AR1660L17I	5-212-7	09/24/01	2233	5.81	16.89
16	AR1660L27I	5-211-7	09/24/01	2257	5.81	16.88
17	AR1660L37M	5-210-7	09/24/01	2321	5.81	16.88
18	AR1660L47I	5-209-7	09/24/01	2345	5.81	16.88
19	AR1660L57I	5-208-7	09/25/01	0009	5.81	16.88
20	PIBLK7Y	5-131-7	09/25/01	0033	5.82	16.89
21	PIBLK7C	5-131-7	09/28/01	1332	5.81	16.88
22	AR1660L37C	5-293-7	09/28/01	1356	5.80	16.87
23	PBLKSA	BL0908SA	09/28/01	1532	5.81	16.86
24	ELCS1	LC0908SA	09/28/01	1620	5.80	16.86
25	ELCS2	LD0908SA	09/28/01	1644	5.80	16.86
26	PIBLK7D	5-131-7	09/28/01	1819	5.80	16.87
27	AR1660L37E	5-293-7	09/28/01	1843	5.80	16.87
28	E04F1	47452.01	09/28/01	1932	5.80	16.86
29	E04F1MS	47452.02MS	09/28/01	1956	5.81	16.86
30	E04F1MSD	47452.03MSD	09/28/01	2020	5.81	16.86
31	E04F2	47452.04	09/28/01	2044	5.81	16.86
32	E04F3	47452.05	09/28/01	2108	5.80	16.86
33	E04F4	47452.06	09/28/01	2132	5.81	16.86
34	E04F5	47452.07	09/28/01	2156	5.81	16.86
35	E04F6	47452.08	09/28/01	2220	5.81	16.86

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.: 29684 SAS No.: SDG No.: E04F1

GC Column: PEST I ID: 0.32(mm) Init. Calib. Date(s): 09/24/01

Instrument ID: HP_07A

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	E04F7	47452.09	09/28/01	2244	5.81	16.86
02	E04F8	47452.10	09/28/01	2308	5.81	16.86
03	E04F9	47452.11	09/28/01	2332	5.81	16.86
04	PIBLK7E	5-131-7	09/29/01	0109	5.82	16.88
05	AR1660L37G	5-293-7	09/29/01	0133	5.81	16.87
06	E04G0	47452.12	09/29/01	0221	5.81	16.86
07	E04G1	47452.13	09/29/01	0245	5.81	16.86
08	E04G2	47452.14	09/29/01	0309	5.81	16.86
09	E04G3	47452.15	09/29/01	0333	5.82	16.86
10	E04G4	47452.16	09/29/01	0357	5.81	16.86
11	E04G5	47452.17	09/29/01	0421	5.81	16.86
12	E04G6	47452.18	09/29/01	0445	5.81	16.86
13	E04G7	47452.19	09/29/01	0509	5.82	16.86
14	E04G8	47452.20	09/29/01	0533	5.80	16.86
15	E04G9	47452.21	09/29/01	0557	5.81	16.86
16	E04H0	47452.22	09/29/01	0621	5.81	16.86
17	PIBLK7F	5-131-7	09/29/01	0757	5.80	16.86
18	AR1660L37I	5-293-7	09/29/01	0821	5.80	16.86
19						
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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.: 29684 SAS No.: SDG No.: E04F1

GC Column: PEST II ID: 0.32(mm) Init. Calib. Date(s): 09/24/01

Instrument ID: HP_07B

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	RESC7J	5-171-7	09/24/01	1654	5.72	17.40
02	AR1221L37I	5-420-6	09/24/01	1718	5.72	17.40
03	AR1232L37I	5-422-6	09/24/01	1743	5.72	17.40
04	AR1242L17I	5-11-7	09/24/01	1807	5.72	17.40
05	AR1242L27I	5-10-7	09/24/01	1831	5.71	17.40
06	AR1242L37I	5-9-7	09/24/01	1855	5.72	17.40
07	AR1242L47I	5-8-7	09/24/01	1920	5.72	17.40
08	AR1242L57I	5-7-7	09/24/01	1944	5.72	17.40
09	AR1248L37I	5-424-6	09/24/01	2008	5.72	17.40
10	AR1254L17I	5-6-7	09/24/01	2033	5.72	17.40
11	AR1254L27I	5-5-7	09/24/01	2057	5.72	17.40
12	AR1254L37I	5-4-7	09/24/01	2121	5.72	17.40
13	AR1254L47I	5-3-7	09/24/01	2145	5.72	17.40
14	AR1254L57I	5-2-7	09/24/01	2209	5.72	17.40
15	AR1660L17I	5-212-7	09/24/01	2233	5.72	17.40
16	AR1660L27I	5-211-7	09/24/01	2257	5.72	17.40
17	AR1660L37M	5-210-7	09/24/01	2321	5.72	17.40
18	AR1660L47I	5-209-7	09/24/01	2345	5.72	17.40
19	AR1660L57I	5-208-7	09/25/01	0009	5.72	17.39
20	PIBLK7Y	5-131-7	09/25/01	0033	5.72	17.41
21	PIBLK7C	5-131-7	09/28/01	1332	5.72	17.39
22	AR1660L37C	5-293-7	09/28/01	1356	5.71	17.39
23	PBLKSA	BL0908SA	09/28/01	1532	5.71	17.38
24	ELCS1	LC0908SA	09/28/01	1620	5.71	17.38
25	ELCS2	LD0908SA	09/28/01	1644	5.71	17.38
26	PIBLK7D	5-131-7	09/28/01	1819	5.71	17.39
27	AR1660L37E	5-293-7	09/28/01	1843	5.71	17.39
28	E04F1	47452.01	09/28/01	1932	5.70	17.37
29	E04F1MS	47452.02MS	09/28/01	1956	5.71	17.37
30	E04F1MSD	47452.03MSD	09/28/01	2020	5.71	17.37
31	E04F2	47452.04	09/28/01	2044	5.71	17.38
32	E04F3	47452.05	09/28/01	2108	5.70	17.37
33	E04F4	47452.06	09/28/01	2132	5.71	17.38
34	E04F5	47452.07	09/28/01	2156	5.72	17.38
35	E04F6	47452.08	09/28/01	2220	5.71	17.37

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.: 29684 SAS No.: SDG No.: E04F1

GC Column: PEST II ID: 0.32(mm) Init. Calib. Date(s): 09/24/01

Instrument ID: HP_07B

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	E04F7	47452.09	09/28/01	2244	5.71	17.38
02	E04F8	47452.10	09/28/01	2308	5.72	17.38
03	E04F9	47452.11	09/28/01	2332	5.71	17.38
04	PIBLK7E	5-131-7	09/29/01	0109	5.72	17.39
05	AR1660L37G	5-293-7	09/29/01	0133	5.72	17.39
06	E04G0	47452.12	09/29/01	0221	5.71	17.38
07	E04G1	47452.13	09/29/01	0245	5.71	17.38
08	E04G2	47452.14	09/29/01	0309	5.71	17.38
09	E04G3	47452.15	09/29/01	0333	5.72	17.38
10	E04G4	47452.16	09/29/01	0357	5.71	17.38
11	E04G5	47452.17	09/29/01	0421	5.71	17.38
12	E04G6	47452.18	09/29/01	0445	5.71	17.38
13	E04G7	47452.19	09/29/01	0509	5.72	17.38
14	E04G8	47452.20	09/29/01	0533	5.71	17.37
15	E04G9	47452.21	09/29/01	0557	5.71	17.38
16	E04H0	47452.22	09/29/01	0621	5.71	17.37
17	PIBLK7F	5-131-7	09/29/01	0757	5.70	17.38
18	AR1660L37I	5-293-7	09/29/01	0821	5.70	17.38
19						
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.: 29684 SDG No.: E04F1

Lab Sample ID: LC0908SA Date(s) Analyzed: 09/28/01 09/28/01

Instrument ID (1): HP_07A Instrument ID (2): HP_07B

GC Column (1): PEST I ID: 0.32(mm) GC Column (2): PEST II ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.44	10.40	10.50	94.8		
Aroclor-1254	2	11.00	10.96	11.06	95.2		
	3	11.85	11.83	11.93	93.4		
COLUMN 1	4	12.81	12.78	12.88	93.2		
	5	13.38	13.36	13.46	89.7	93	
	1	10.85	10.82	10.92	100		
	2	11.27	11.25	11.35	104		
	3	12.25	12.23	12.33	93.6		
COLUMN 2	4	13.06	13.04	13.14	97.1		
	5	13.76	13.73	13.83	89.9	97	4.3
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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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.: 29684 SDG No.: E04F1

Lab Sample ID: LD0908SA Date(s) Analyzed: 09/28/01 09/28/01

Instrument ID (1): HP_07A Instrument ID (2): HP_07B

GC Column (1): PEST I ID: 0.32(mm) GC Column (2): PEST II ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.44	10.40	10.50	87.5		
Aroclor-1254	2	11.00	10.96	11.06	89.0		
	3	11.86	11.83	11.93	87.0		
COLUMN 1	4	12.81	12.78	12.88	88.1		
	5	13.38	13.36	13.46	86.0	88	
	1	10.85	10.82	10.92	91.9		
	2	11.27	11.25	11.35	95.5		
	3	12.26	12.23	12.33	86.8		
COLUMN 2	4	13.06	13.04	13.14	91.4		
	5	13.76	13.73	13.83	84.8	90	2.3
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E04F1MS

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Lab Sample ID: 47452.02MS Date(s) Analyzed: 09/28/01 09/28/01

Instrument ID (1): HP_07A Instrument ID (2): HP_07B

GC Column (1): PEST I ID: 0.32(mm) GC Column (2): PEST II ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.43	10.40	10.50	118		
Aroclor-1254	2						
	3	11.82	11.83	11.93	213		
COLUMN 1	4	12.79	12.78	12.88	202		
	5	13.35	13.36	13.46	138	170	
	1	10.83	10.82	10.92	219		
	2						
	3						
COLUMN 2	4	13.02	13.04	13.14	222		
	5	13.72	13.73	13.83	154	200	17.6
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E04F1MSD

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Lab Sample ID: 47452.03MSD Date(s) Analyzed: 09/28/01 09/28/01

Instrument ID (1): HP_07A Instrument ID (2): HP_07B

GC Column (1): PEST I ID: 0.32(mm) GC Column (2): PEST II ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.43	10.40	10.50	124		
Aroclor-1254	2						
	3	11.82	11.83	11.93	228		
COLUMN 1	4	12.79	12.78	12.88	221		
	5	13.35	13.36	13.46	153	180	
	1	10.83	10.82	10.92	235		
	2						
	3						
COLUMN 2	4	13.02	13.04	13.14	250		
	5	13.72	13.73	13.83	171	220	22.2
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E04F4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Lab Sample ID: 47452.06 Date(s) Analyzed: 09/28/01 09/28/01

Instrument ID (1): HP_07A Instrument ID (2): HP_07B

GC Column (1): PEST I ID: 0.32(mm) GC Column (2): PEST II ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	7.42	7.38	7.48	16.3		
Aroclor-1242	2						
	3						
COLUMN 1	4	9.18	9.14	9.24	47.2		
	5	9.62	9.58	9.68	91.7	52	
	1	7.70	7.66	7.76	11.6		
	2	8.66	8.66	8.76	51.5		
	3	8.94	8.94	9.04	35.7		
COLUMN 2	4	9.47	9.45	9.55	60.1		
	5					40	30.0
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E04F7

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Lab Sample ID: 47452.09 Date(s) Analyzed: 09/28/01 09/28/01

Instrument ID (1): HP_07A Instrument ID (2): HP_07B

GC Column (1): PEST I ID: 0.32(mm) GC Column (2): PEST II ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	7.43	7.38	7.48	37.0		
Aroclor-1242	2	8.46	8.41	8.51	111		
	3	8.77	8.71	8.81	52.6		
COLUMN 1	4						
	5	9.62	9.58	9.68	133	83	
	1	7.70	7.66	7.76	34.0		
	2	8.69	8.66	8.76	111		
	3	8.96	8.94	9.04	55.4		
COLUMN 2	4						
	5	9.96	9.94	10.04	129	82	1.2
	1	10.43	10.40	10.50	31.5		
Aroclor-1254	2						
	3	11.83	11.83	11.93	55.7		
COLUMN 1	4	12.79	12.78	12.88	53.3		
	5	13.36	13.36	13.46	35.0	44	
	1	10.86	10.82	10.92	101		
	2	11.24	11.25	11.35	62.1		
	3						
COLUMN 2	4	13.03	13.04	13.14	49.5		
	5	13.72	13.73	13.83	32.2	61	38.6
	1	12.21	12.18	12.28	30.3		
Aroclor-1260	2	12.79	12.78	12.88	34.8		
	3						
COLUMN 1	4	14.03	14.01	14.11	15.8		
	5	14.58	14.58	14.68	12.9	23	
	1	12.68	12.59	12.69	30.4		
	2	13.03	13.04	13.14	39.0		
	3						
COLUMN 2	4	14.84	14.40	14.50	29.2		
	5					33	43.5

At least 3 peaks are required for identification of multicomponent analytes

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10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E04G1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Lab Sample ID: 47452.13 Date(s) Analyzed: 09/29/01 09/29/01

Instrument ID (1): HP_07A Instrument ID (2): HP_07B

GC Column (1): PEST I ID: 0.32(mm) GC Column (2): PEST II ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	7.43	7.38	7.48	56.1		
Aroclor-1242	2	8.46	8.41	8.51	135		
	3	8.78	8.71	8.81	76.4		
COLUMN 1	4	9.19	9.14	9.24	274		
	5	9.62	9.58	9.68	205	150	
	1	7.70	7.66	7.76	35.4		
	2	8.68	8.66	8.76	141		
	3	8.95	8.94	9.04	70.2		
COLUMN 2	4	9.48	9.45	9.55	225		
	5	9.96	9.94	10.04	192	130	15.4
	1	10.44	10.40	10.50	36.5		
Aroclor-1254	2						
	3	11.83	11.83	11.93	77.8		
COLUMN 1	4	12.79	12.78	12.88	89.8		
	5	13.35	13.36	13.46	42.7	62	
	1	10.85	10.82	10.92	148		
	2						
	3						
COLUMN 2	4	13.04	13.04	13.14	105		
	5	13.72	13.73	13.83	42.5	99	59.7
	1	12.21	12.18	12.28	35.5		
Aroclor-1260	2	12.79	12.78	12.88	58.6		
	3						
COLUMN 1	4	14.03	14.01	14.11	17.9		
	5	14.58	14.58	14.68	15.2	32	
	1	12.67	12.59	12.69	51.7		
	2	13.04	13.04	13.14	86.6		
	3						
COLUMN 2	4						
	5	14.84	14.85	14.95	18.2	52	62.5

At least 3 peaks are required for identification of multicomponent analytes

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10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E04G2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Lab Sample ID: 47452.14 Date(s) Analyzed: 09/29/01 09/29/01

Instrument ID (1): HP_07A Instrument ID (2): HP_07B

GC Column (1): PEST I ID: 0.32(mm) GC Column (2): PEST II ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1						
Aroclor-1242	2						
	3	8.77	8.71	8.81	40.5		
COLUMN 1	4	9.13	9.14	9.24	94.5		
	5	9.62	9.58	9.68	62.7	66	
	1	7.70	7.66	7.76	8.3		
	2	8.67	8.66	8.76	41.5		
	3	8.92	8.94	9.04	36.5		
COLUMN 2	4	9.48	9.45	9.55	48.7		
	5	9.95	9.94	10.04	28.1	33	100
	1	10.44	10.40	10.50	11.1		
Aroclor-1254	2	11.00	10.96	11.06	16.9		
	3	11.82	11.83	11.93	56.1		
COLUMN 1	4						
	5	13.37	13.36	13.46	19.7	26	
	1	10.85	10.82	10.92	26.8		
	2	11.36	11.25	11.35	35.0		
	3	12.31	12.23	12.33	31.8		
COLUMN 2	4	13.07	13.04	13.14	232		
	5	13.72	13.73	13.83	9.4	67	158
	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.

E04G9

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Lab Sample ID: 47452.21 Date(s) Analyzed: 09/29/01 09/29/01

Instrument ID (1): HP_07A Instrument ID (2): HP_07B

GC Column (1): PEST I ID: 0.32(mm) GC Column (2): PEST II ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	7.43	7.38	7.48	25.2		
Aroclor-1242	2	8.46	8.41	8.51	127		
	3	8.77	8.71	8.81	71.6		
COLUMN 1	4	9.19	9.14	9.24	140		
	5	9.62	9.58	9.68	115	96	
	1	7.70	7.66	7.76	22.1		
	2	8.67	8.66	8.76	84.9		
	3	8.94	8.94	9.04	48.7		
COLUMN 2	4	9.48	9.45	9.55	103		
	5	9.95	9.94	10.04	58.4	63	52.4
	1	10.44	10.40	10.50	18.1		
Aroclor-1254	2	10.99	10.96	11.06	30.4		
	3	11.82	11.83	11.93	68.1		
COLUMN 1	4						
	5	13.36	13.36	13.46	22.8	35	
	1	10.85	10.82	10.92	56.0		
	2	11.35	11.25	11.35	60.8		
	3	12.30	12.23	12.33	34.1		
COLUMN 2	4	13.06	13.04	13.14	226		
	5					94	169
	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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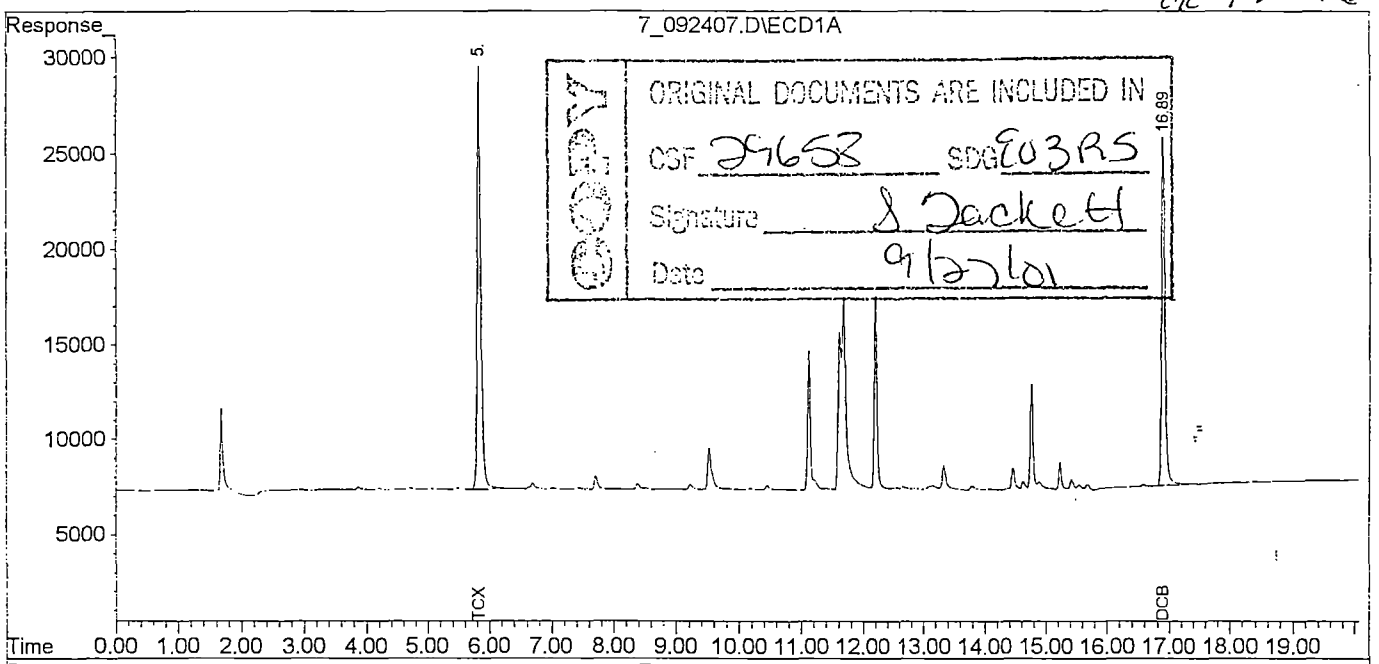
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092407.D\ECD1A.CH Vial: 1
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092407.D\ECD2B.CH
Acq On : 24 Sep 2001 16:54 Operator: SA
Sample : RESC7J, Inst : HP_07
Misc : 5-171-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:33 2001 Quant Results File: XPCBI24.RES

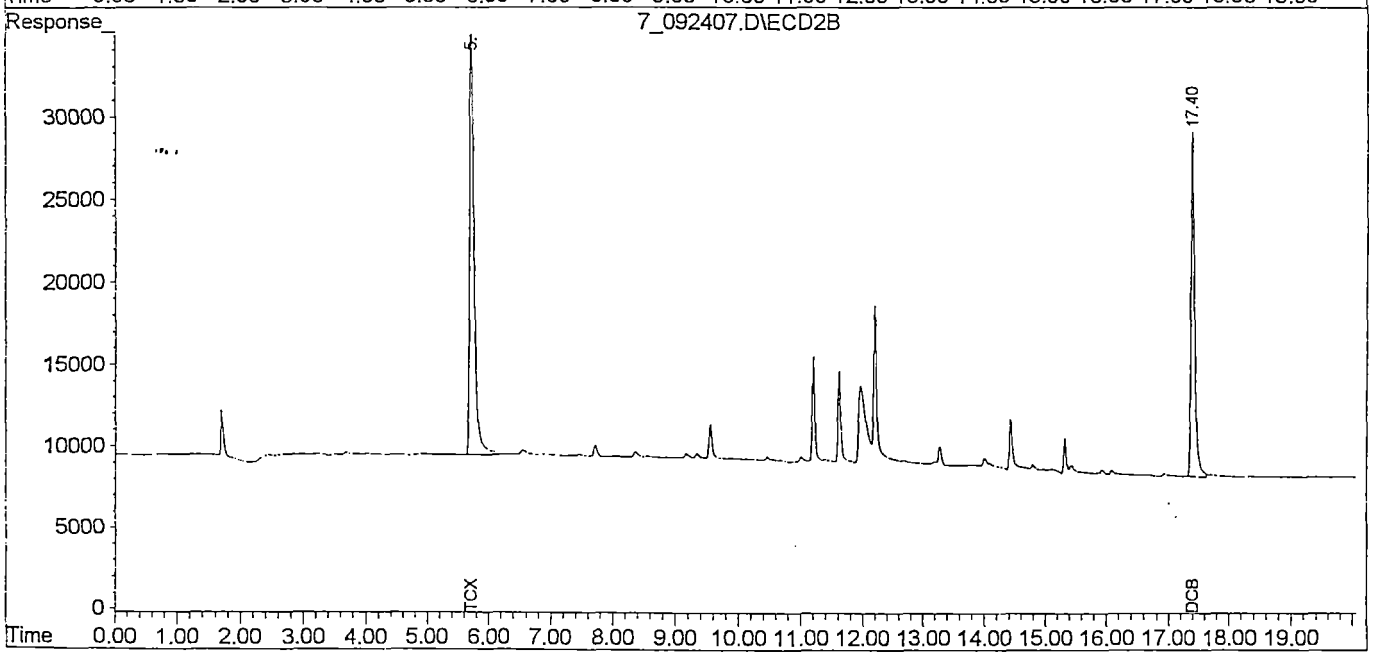
Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

CK 9-27-01



ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29658 SDG 03RS
Signature S Jackett
Date 9/27/01



Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092407.D\ECD1A.CH Vial: 1
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092407.D\ECD2B.CH
Acq On : 24 Sep 2001 16:54 Operator: SA
Sample : RESC7J Inst : HP_07
Misc : 5-171-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:33 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

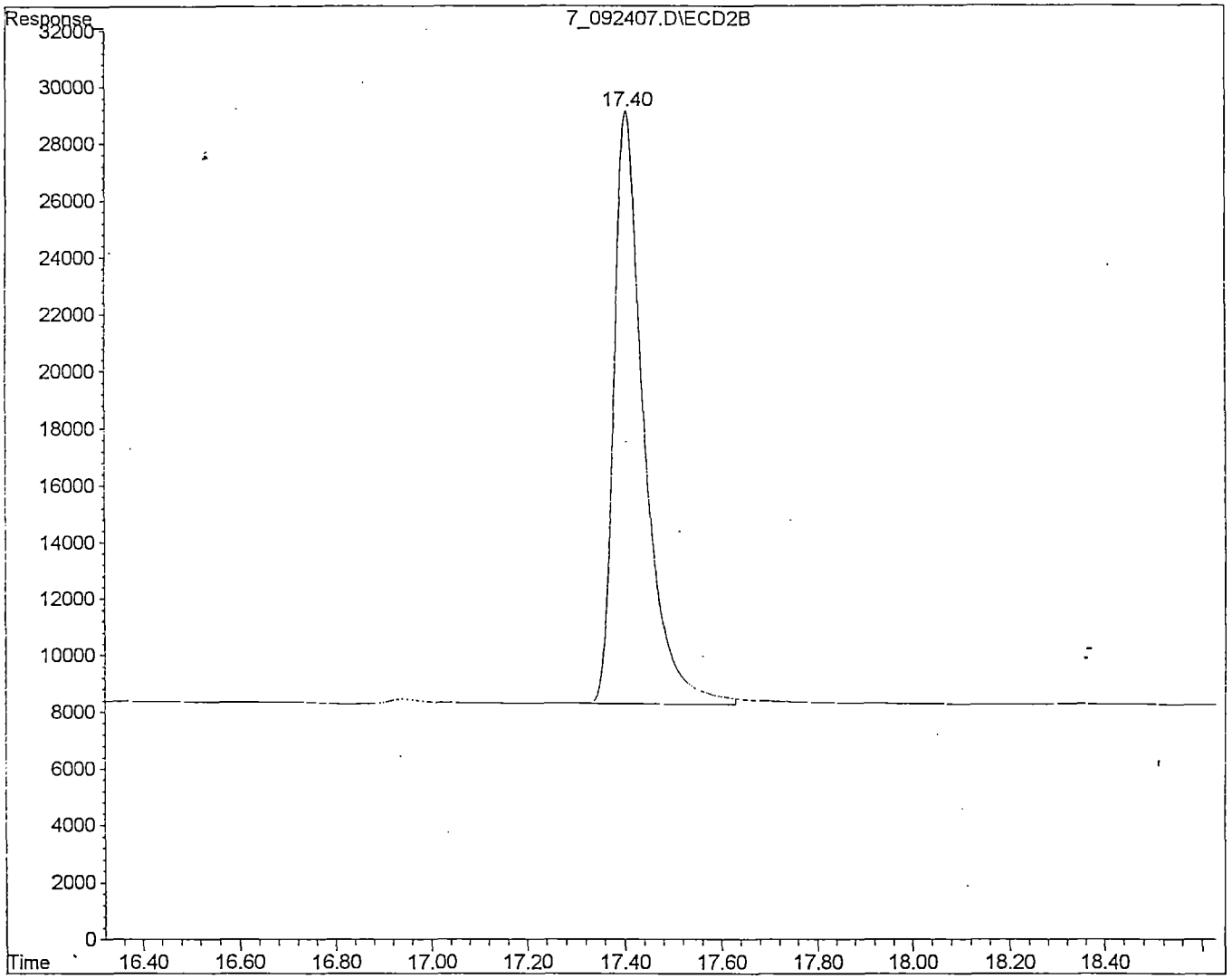
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82	5.72	909104	1346360	20.9	22.4
22)	S DCB	16.89	17.40	739544	893393	33.5	30.6m

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\7\DATA\09_24_01\7_092407.D
Date Acquired: 24 Sep 2001 16:54
Inst: HP_07 Operator ID: SA
Name: RESC7J
Misc: 5-171-7
Method: F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 7:33 2001 Quant Results File: XPCBI24.RES



A 9-25-01

DCB #2 17.40min area: 893393 m

Integration Time Range: 17.32 - 17.63

O/C 9-27-01

F:\HPCHEM\HP\7\DATA\09_24_01\7_092407.D
Report generated: Tue Sep 25 08:12:17 2001

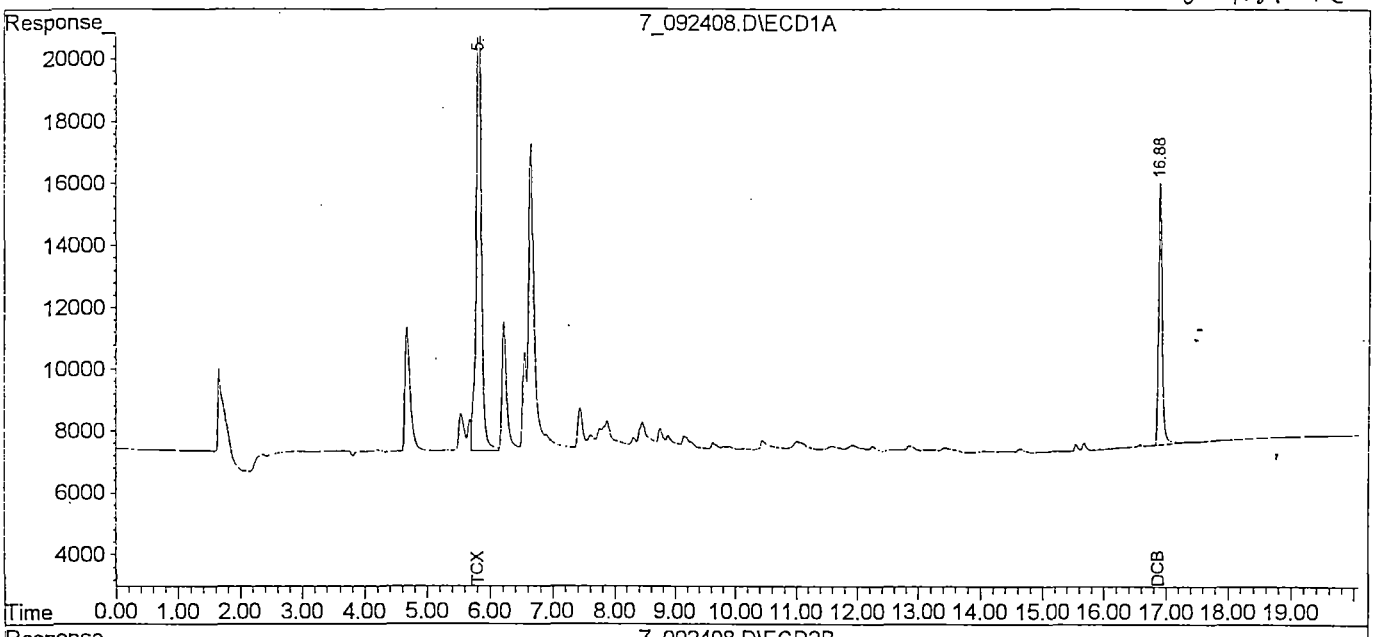
Chromatographic Report

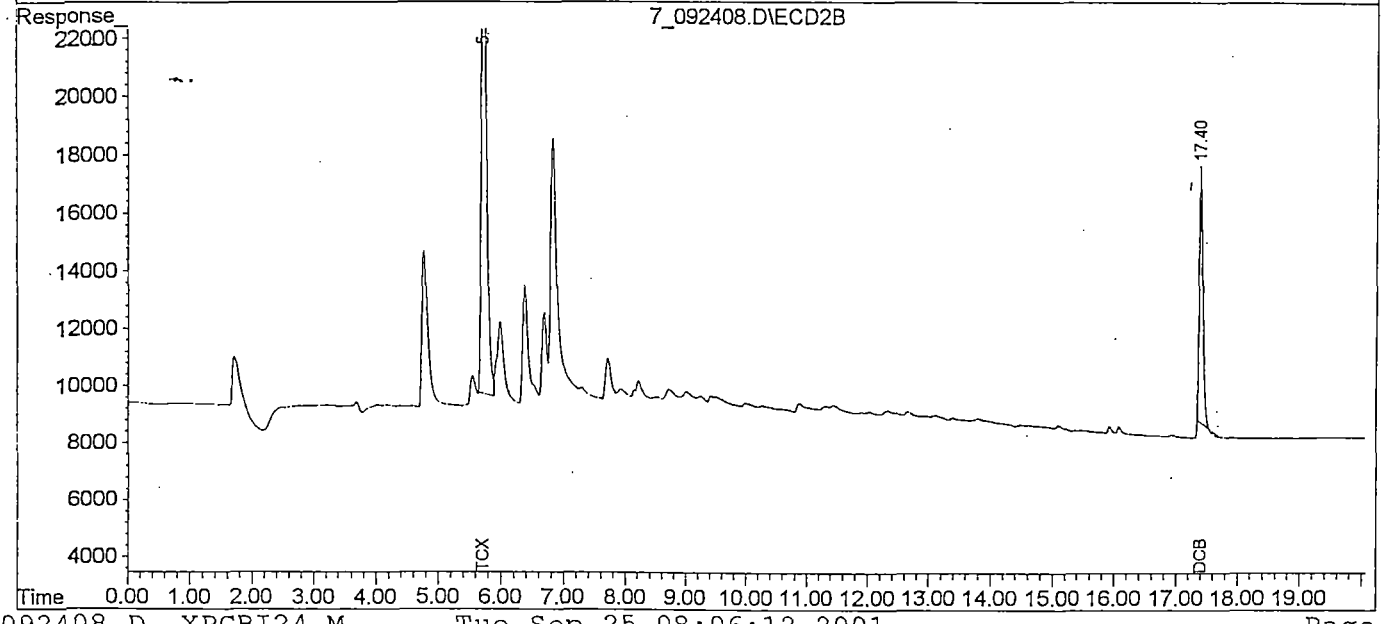
Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092408.D\ECD1A.CH Vial: 2
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092408.D\ECD2B.CH
Acq On : 24 Sep 2001 17:18 Operator: SA
Sample : AR1221L37I Inst : HP_07
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:22 2001 Quant Results File: XPCBI24.RES
Quant Time: Sep 25 7:25 2001 Quant Results File: xspcbi24.RES

Pesticide Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001

Multi-Component Method : f:\hpchem\hp\7\data\09_24_01\xspcbi24.m
Title : PCB/TOXAPHENE
Last Update : Wed May 30 11:44:17 2001
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-27-01 [illegible]





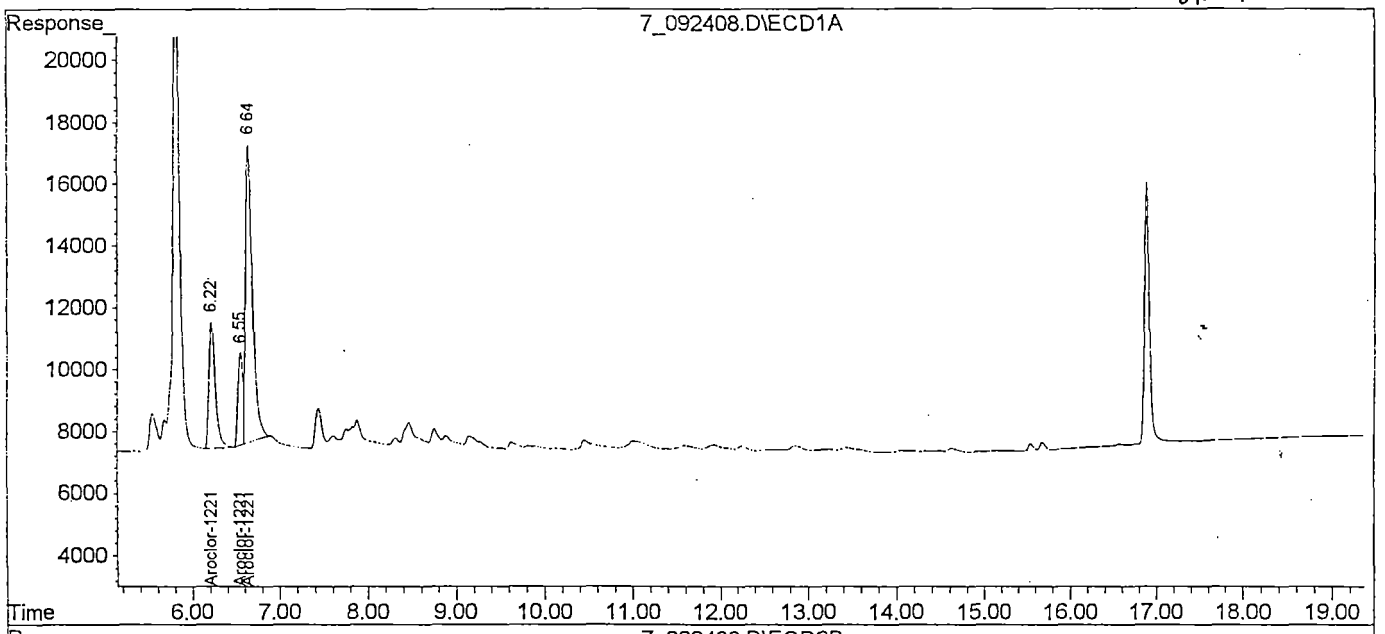
Chromatographic Report

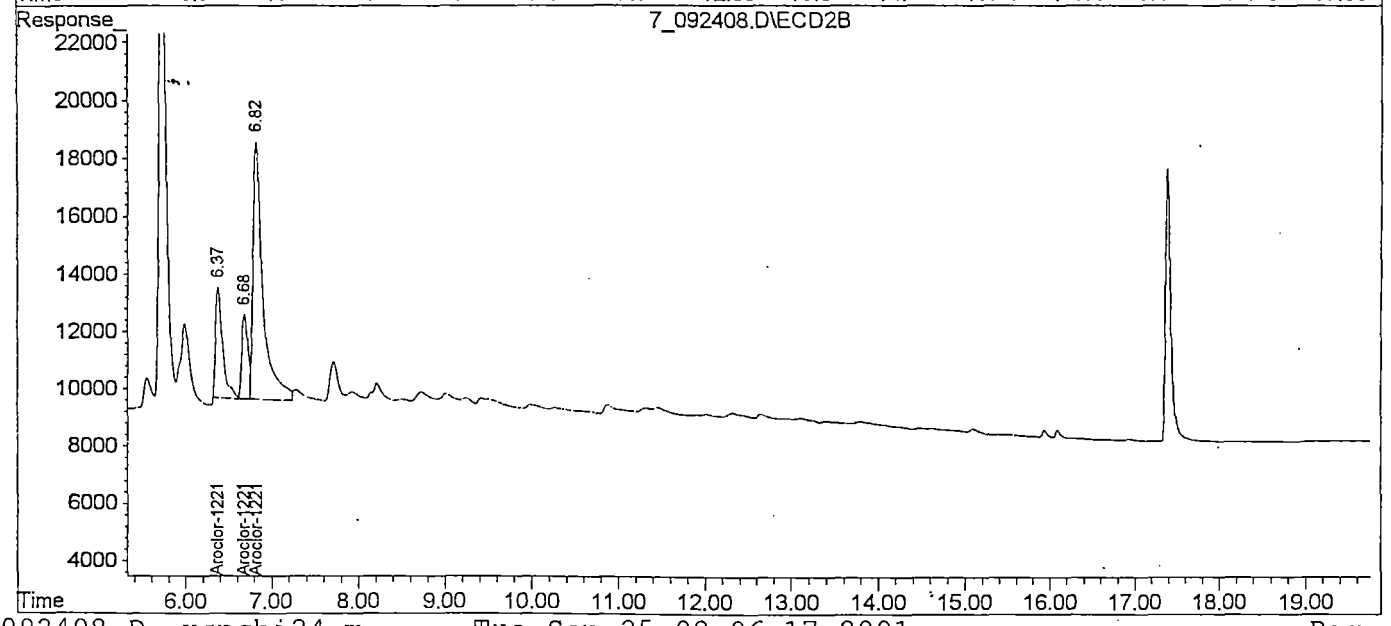
Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092408.D\ECD1A.CH Vial: 2
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092408.D\ECD2B.CH
Acq On : 24 Sep 2001 17:18 Operator: SA
Sample : AR1221L37I Inst : HP_07
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:25 2001 Quant Results File: xspcbi24.RES
Quant Time: Sep 25 7:25 2001 Quant Results File: xspcbi24.RES

Pesticide Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001

Multi-Component Method : f:\hpchem\hp\7\data\09_24_01\xspcbi24.m
Title : PCB/TOXAPHENE
Last Update : Wed May 30 11:44:17 2001
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-27-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092408.D\ECD1A.CH Vial: 2
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092408.D\ECD2B.CH
Acq On : 24 Sep 2001 17:18 Operator: SA
Sample : AR1221L37I Inst : HP_07
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:22 2001 Quant Results File: XPCBI24.RES
Multi Time: Sep 25 7:25 2001 Quant Results File: xspcbi24.RES

Pesticide Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001

Multi-Component Method : f:\hpchem\hp\7\data\09_24_01\xspcbi24.m
Title : PCB/TOXAPHENE
Last Update : Wed May 30 11:44:17 2001
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.81	5.72	906484	1071326	20.9	17.8
22)	S DCB	16.88	17.40	344206	349157	15.6	12.0
	Target Compounds:						
	Multi-Component Compounds:						
2)	L2 Aroclor-1221	6.22	6.38	212054	226046	408.9	319.4
3)	L2 Aroclor-1221 {2}	6.55	6.68	107472	143419	412.0	336.2
4)	L2 Aroclor-1221 {3}	6.64	6.82	541207	724645	404.6	348.9
	Sum Aroclor-1221			860733	1094111	1225.4	1004.5
	Average Aroclor-1221					408.479	334.849

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

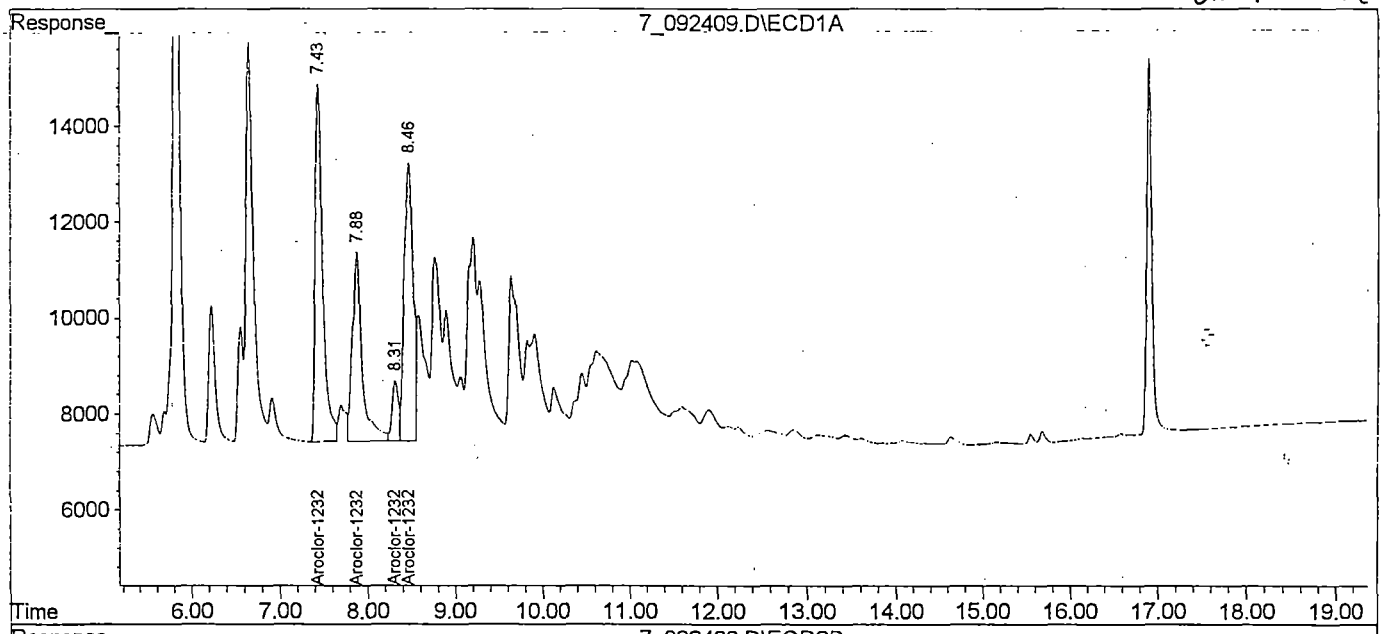
Chromatographic Report

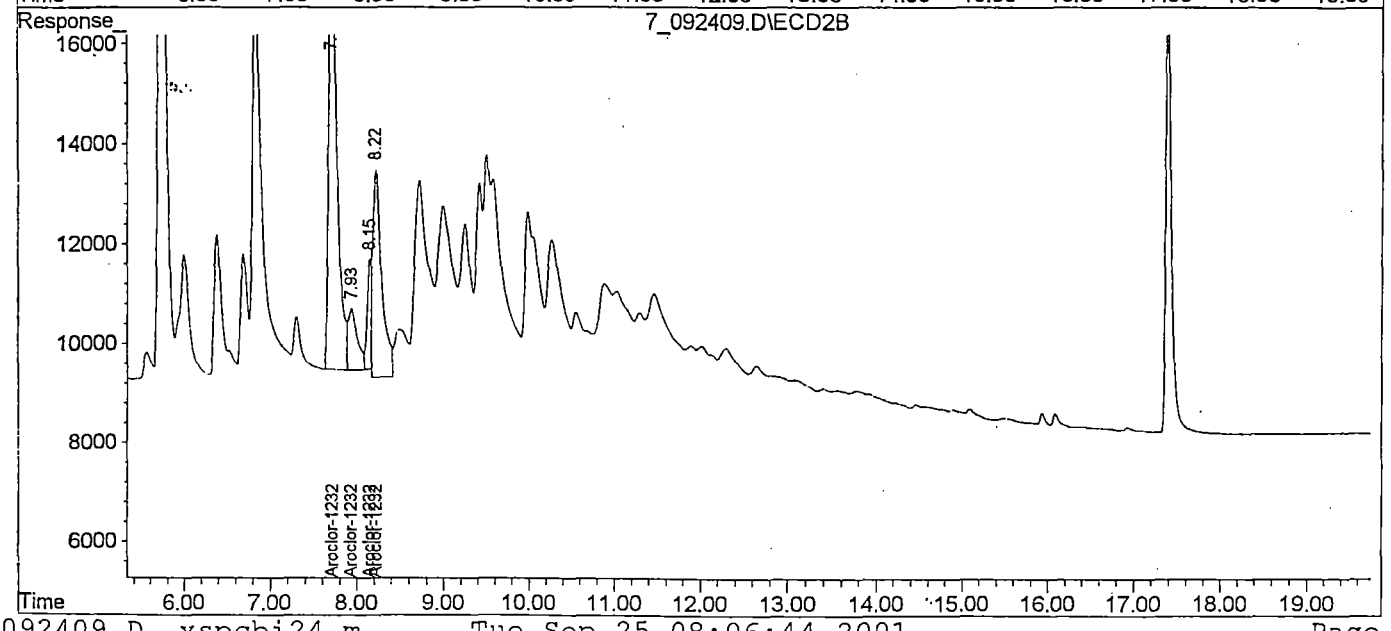
Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092409.D\ECD1A.CH Vial: 3
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092409.D\ECD2B.CH
Acq On : 24 Sep 2001 17:43 Operator: SA
Sample : AR1232L37I / Inst : HP_07
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:27 2001 Quant Results File: xspcbi24.RES
Quant Time: Sep 25 7:27 2001 Quant Results File: xspcbi24.RES

Pesticide Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001

Multi-Component Method : f:\hpchem\hp\7\data\09_24_01\xspcbi24.m
Title : PCB/TOXAPHENE
Last Update : Wed May 30 11:44:17 2001
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-27-01





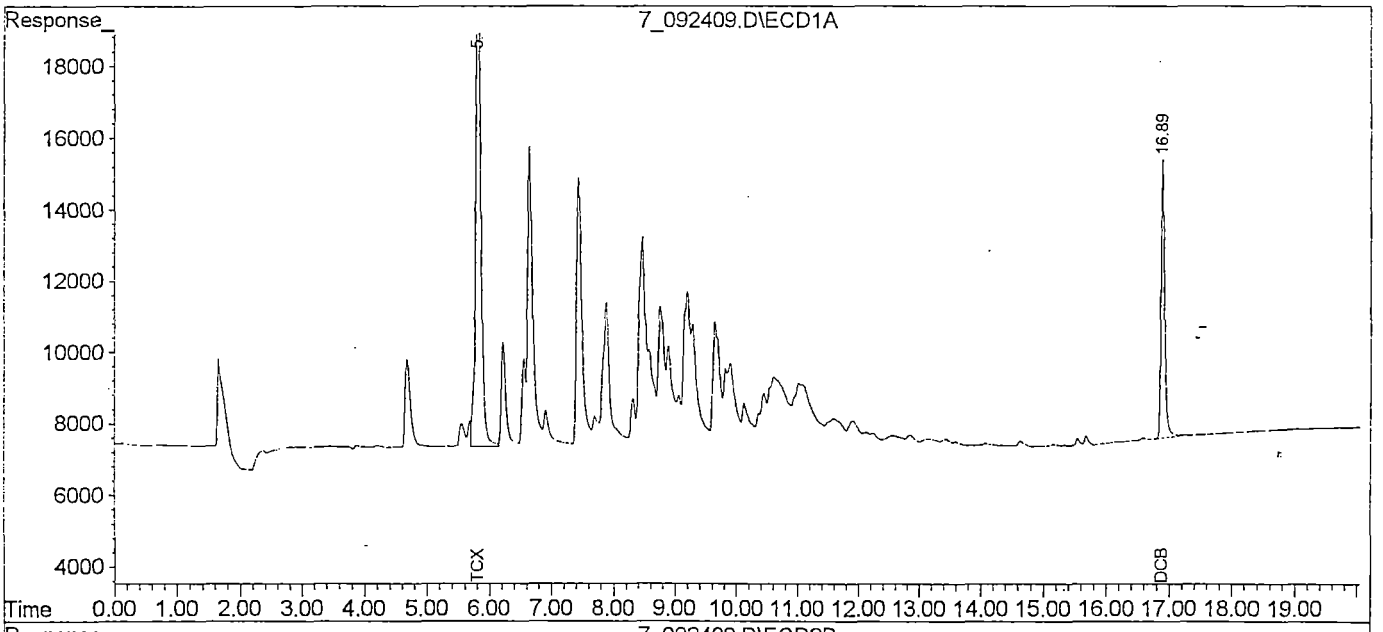
Chromatographic Report

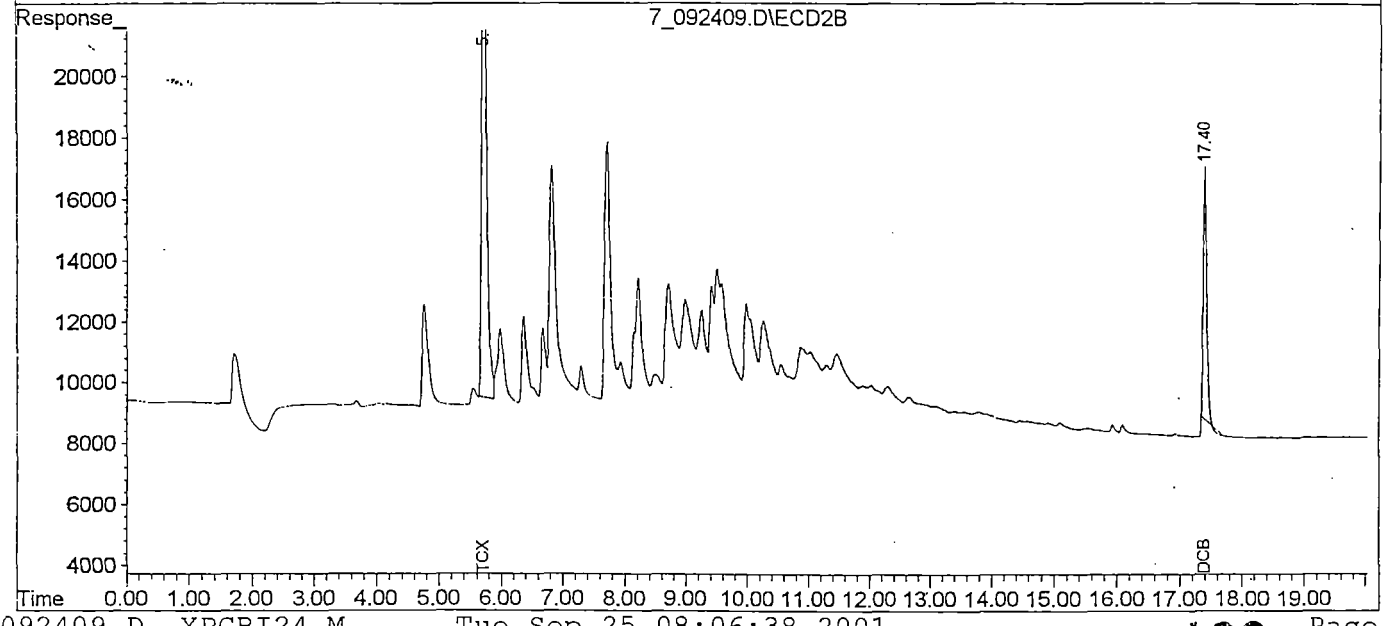
Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092409.D\ECD1A.CH Vial: 3
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092409.D\ECD2B.CH
Acq On : 24 Sep 2001 17:43 Operator: SA
Sample : AR1232L37I Inst : HP_07
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:23 2001 Quant Results File: XPCBI24.RES
Quant Time: Sep 25 7:27 2001 Quant Results File: xspcbi24.RES

Pesticide Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001

Multi-Component Method : f:\hpchem\hp\7\data\09_24_01\xspcbi24.m
Title : PCB/TOXAPHENE
Last Update : Wed May 30 11:44:17 2001
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

ok 9-27-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092409.D\ECD1A.CH Vial: 3
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092409.D\ECD2B.CH
Acq On : 24 Sep 2001 17:43 Operator: SA
Sample : AR1232L37I Inst : HP_07
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:23 2001 Quant Results File: XPCBI24.RES
Multi Time: Sep 25 7:27 2001 Quant Results File: xspcbi24.RES

Pesticide Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001

Multi-Component Method : f:\hpchem\hp\7\data\09_24_01\xspcbi24.m
Title : PCB/TOXAPHENE
Last Update : Wed May 30 11:44:17 2001
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

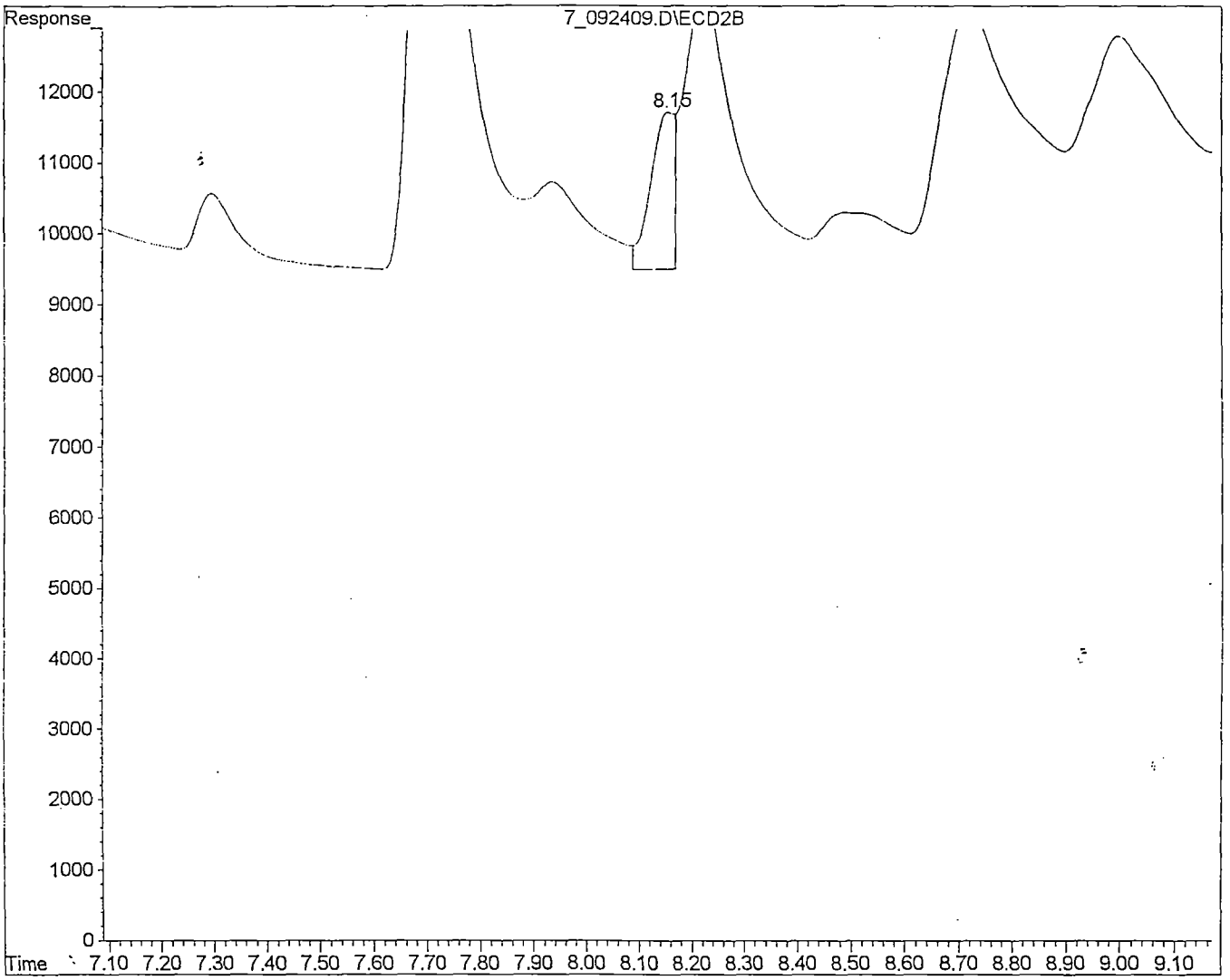
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.81	5.72	839570	1013665	19.3	16.9	
22)	S DCB	16.89	17.40	315389	312062	14.3	10.7	#
	Target Compounds:							
	Multi-Component Compounds:							
5)	L3 Aroclor-1232	7.43	7.71	442437	578285	406.4	380.3	
6)	L3 Aroclor-1232 {2}	7.88	7.93	308040	97075	382.6	321.7	
7)	L3 Aroclor-1232 {3}	8.31	8.15	60943	68173	359.5	327.8m	
8)	L3 Aroclor-1232 {4}	8.46	8.22	406792	299716	354.7	409.5m	
	Sum Aroclor-1232			1218212	1043248	1503.2	1439.4	
	Average Aroclor-1232					375.812	359.855	

9-25-01

(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\7\DATA\09_24_01\7_092409.D
Date Acquired: 24 Sep 2001 17:43
Inst: HP_07 Operator ID: SA
Name: AR1232L37I
Misc: 5-422-6
Method: f:\hpchem\hp\7\data\09_24_01\xspcbi24.m
Title:
Quant Time: Sep 25 7:27 2001 Quant Results File: xspcbi24.RES



S09-25-01

Aroclor-1232 {3} #2 8.15min area: 68173 m

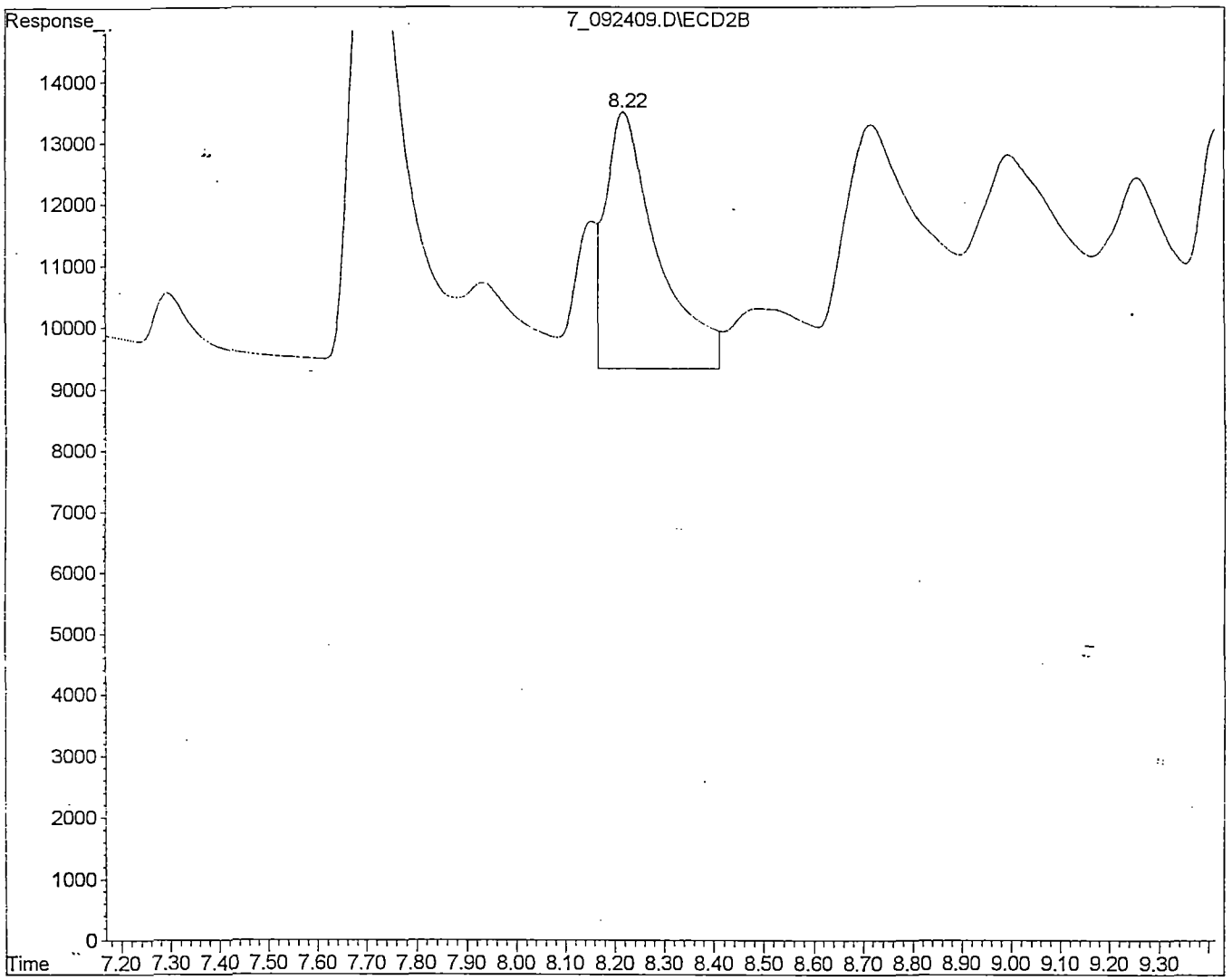
Integration Time Range: 8.09 - 8.17

ok 9-27-01

F:\HPCHEM\HP\7\DATA\09_24_01\7_092409.D
Report generated: Tue Sep 25 08:12:24 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_24_01\7_092409.D
Date Acquired: 24 Sep 2001 17:43
Inst: HP_07 Operator ID: SA
Name: AR1232L37I
Misc: 5-422-6
Method: f:\hpchem\hp\7\data\09_24_01\xspcbi24.m
Title:
Quant Time: Sep 25 7:27 2001 Quant Results File: xspcbi24.RES



CA 9.25.-1

Aroclor-1232 {4} #2 8.22min area: 299716 m

Integration Time Range: 8.17 - 8.41

OK 9-27-01

F:\HPCHEM\HP\7\DATA\09_24_01\7_092409.D
Report generated: Tue Sep 25 08:12:24 2001

Response Factor Report HP_07

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

OK 9-27-01

Calibration Files
L1 =7_092410.D L2 =7_092411.D L3 =7_092412.D
L4 =7_092413.D L5 =7_092414.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
7) Aroclor-1242	2.1	2.1	2.1	1.7	1.6	1.9 E3	12.11
8) Aroclor-1242 {2}	1.7	1.8	2.1	2.1	2.2	2.0 E3	11.72
9) Aroclor-1242 {3}	1.2	1.2	1.3	1.1	1.1	1.2 E3	6.04
10) Aroclor-1242 {4}	1.6	1.5	1.5	1.3	1.3	1.4 E3	9.05
11) Aroclor-1242 {5}	1.4	1.4	1.4	1.3	1.3	1.4 E3	5.53

Signal #2 Calibration Files
L1 =7_092410.D L2 =7_092411.D L3 =7_092412.D
L4 =7_092413.D L5 =7_092414.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
30) Aroclor-1242 #2	2.7	2.7	2.8	2.5	2.4	2.6 E3	6.12
31) Aroclor-1242 {2} #2	1.7	1.9	2.3	2.4	2.9	2.2 E3	19.94
32) Aroclor-1242 {3} #2	2.1	2.0	2.1	1.9	1.8	2.0 E3	6.18
33) Aroclor-1242 {4} #2	1.2	1.2	1.3	1.2	1.2	1.2 E3	2.91
34) Aroclor-1242 {5} #2	2.2	2.1	2.1	1.9	2.0	2.1 E3	4.65

(#) = Out of Range

XPCBI24.M Tue Sep 25 07:40:15 2001

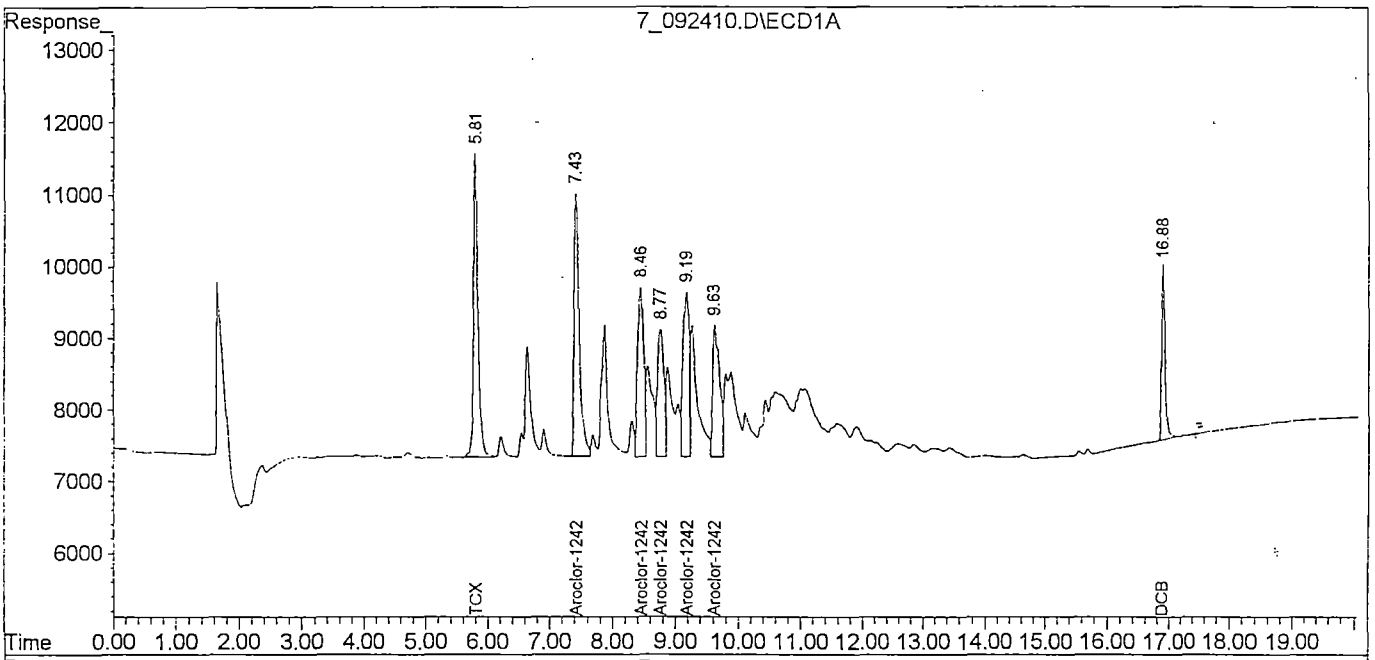
Chromatographic Report

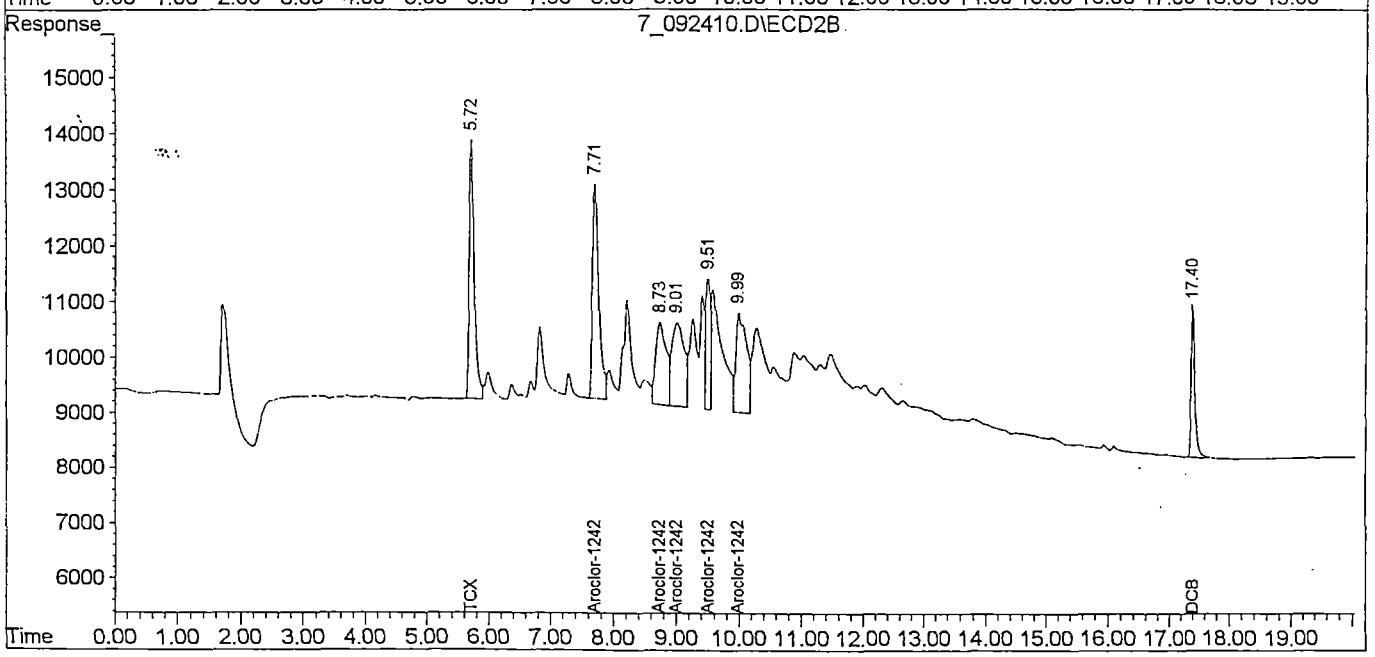
Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092410.D\ECD1A.CH Vial: 4
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092410.D\ECD2B.CH
Acq On : 24 Sep 2001 18:07 Operator: SA
Sample : AR1242L17I Inst : HP_07
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:35 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-27-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092410.D\ECD1A.CH Vial: 4
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092410.D\ECD2B.CH
Acq On : 24 Sep 2001 18:07 Operator: SA
Sample : AR1242L17I Inst : HP_07
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:35 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

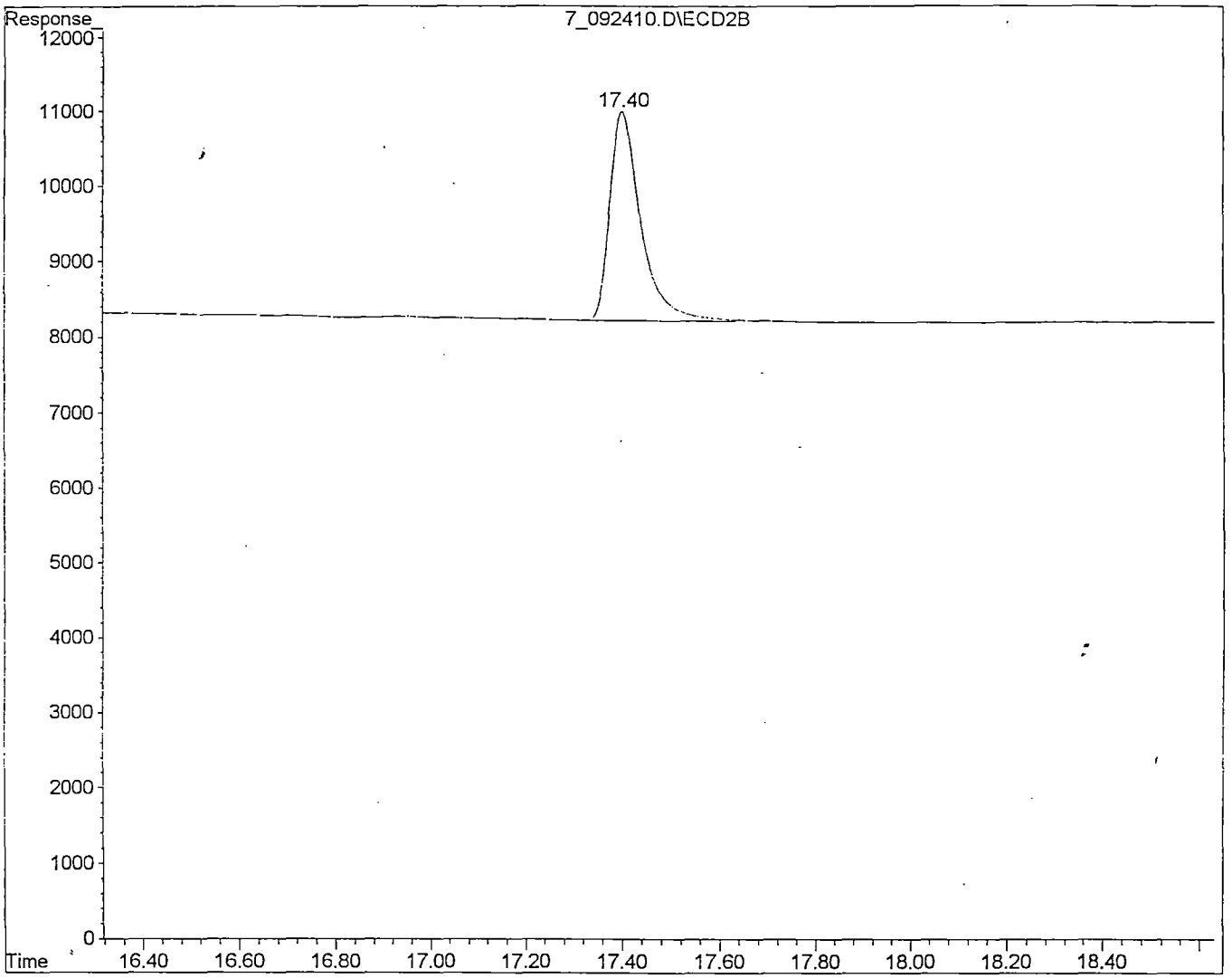
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.81	5.72	216134	261004	4.979	4.343
22)	S DCB	16.88	17.40	96260	121940	4.356	4.176m
	Target Compounds:						
7)	L4 Aroclor-1242	7.43	7.71	210858	268961	114.3	103.1
8)	L4 Aroclor-1242 {2}	8.46	8.73	165599	173696	69.7	66.8
9)	L4 Aroclor-1242 {3}	8.77	9.01	122284	208037	102.9	104.0
10)	L4 Aroclor-1242 {4}	9.20	9.51	156177	124253	108.8	101.9
11)	L4 Aroclor-1242 {5}	9.63	9.99	139927	217161	105.0	107.6
	Sum Aroclor-1242			794846	992108	500.8	483.4
	Average Aroclor-1242					100.154	96.677

09-25-01

(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\7\DATA\09_24_01\7_092410.D
Date Acquired: 24 Sep 2001 18:07
Inst: HP_07 Operator ID: SA
Name: ARI242L17I
Misc: 5-11-7
Method: F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 7:35 2001 Quant Results File: XPCBI24.RES



AS 9-25-01

DCB #2 17.40min area: 121940 m

Integration Time Range: 17.32 - 17.63 OK 9-27-01

F:\HPCHEM\HP\7\DATA\09_24_01\7_092410.D
Report generated: Tue Sep 25 08:12:27 2001

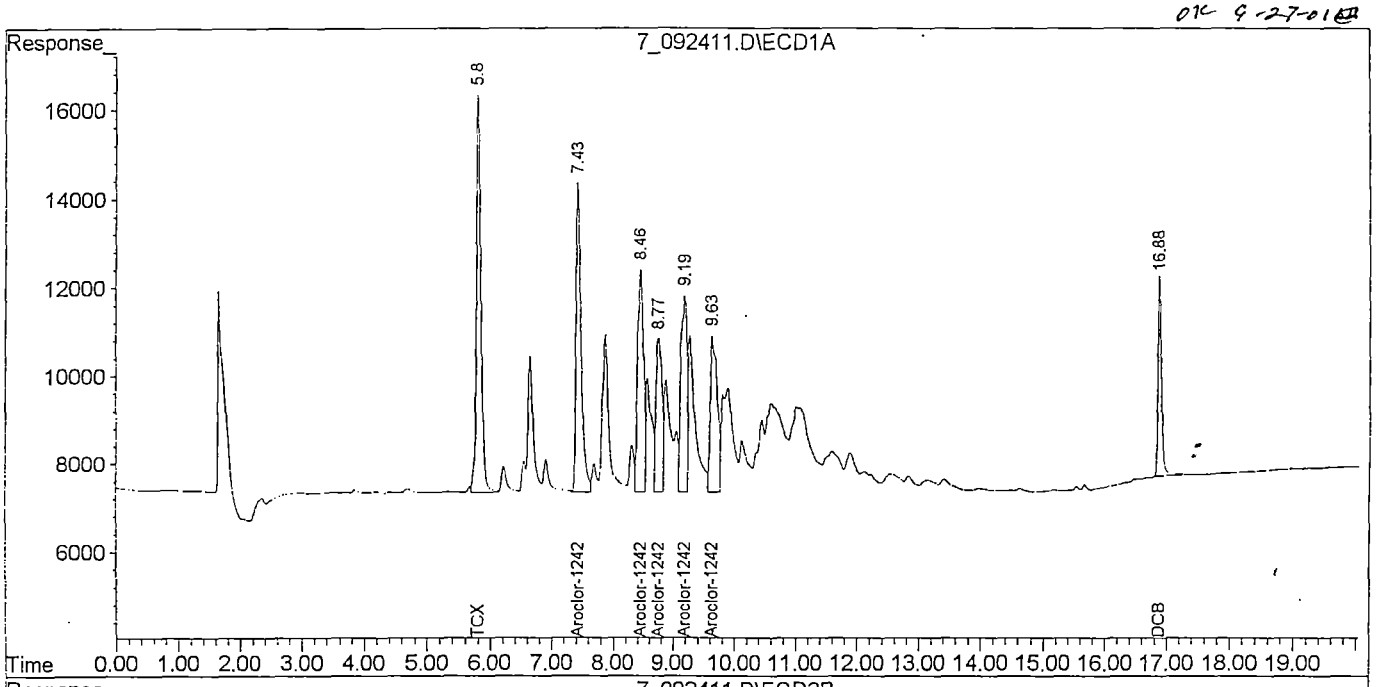
Chromatographic Report

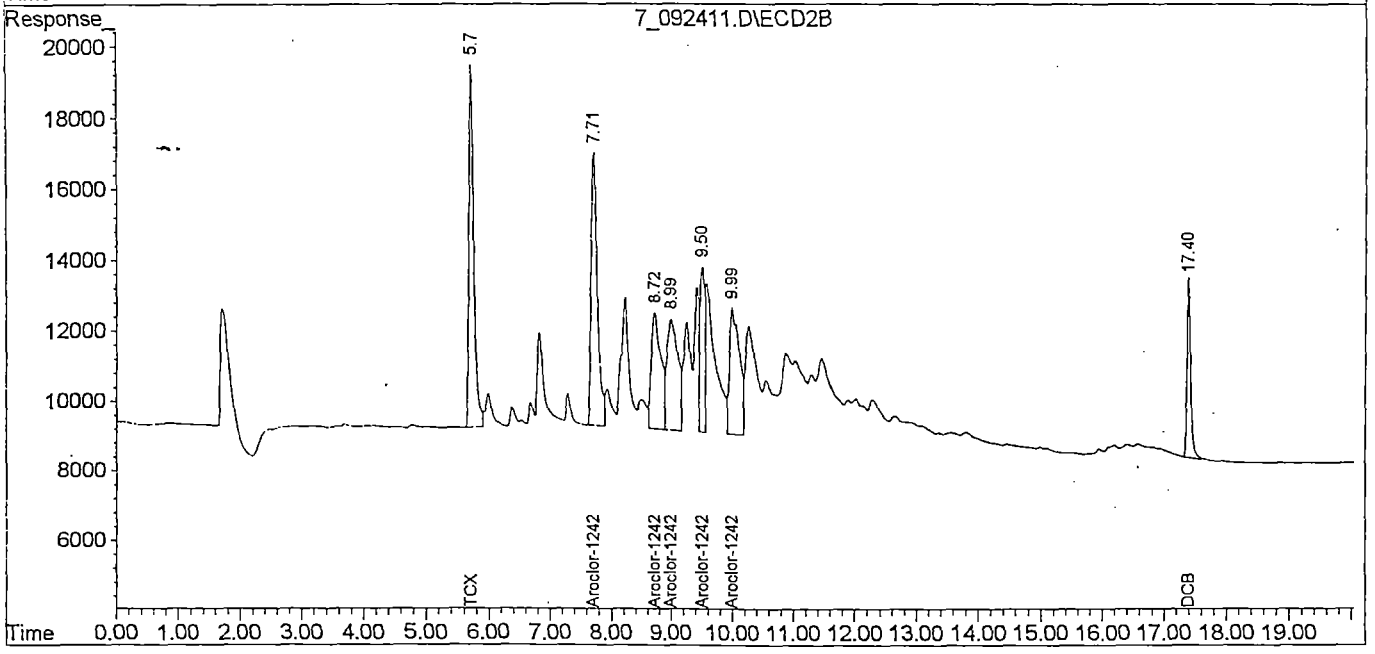
Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092411.D\ECD1A.CH Vial: 5
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092411.D\ECD2B.CH
Acq On : 24 Sep 2001 18:31 Operator: SA
Sample : AR1242L27I / Inst : HP_07
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:36 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-27-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092411.D\ECD1A.CH Vial: 5
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092411.D\ECD2B.CH
Acq On : 24 Sep 2001 18:31 Operator: SA
Sample : AR1242L27I Inst : HP_07
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:36 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

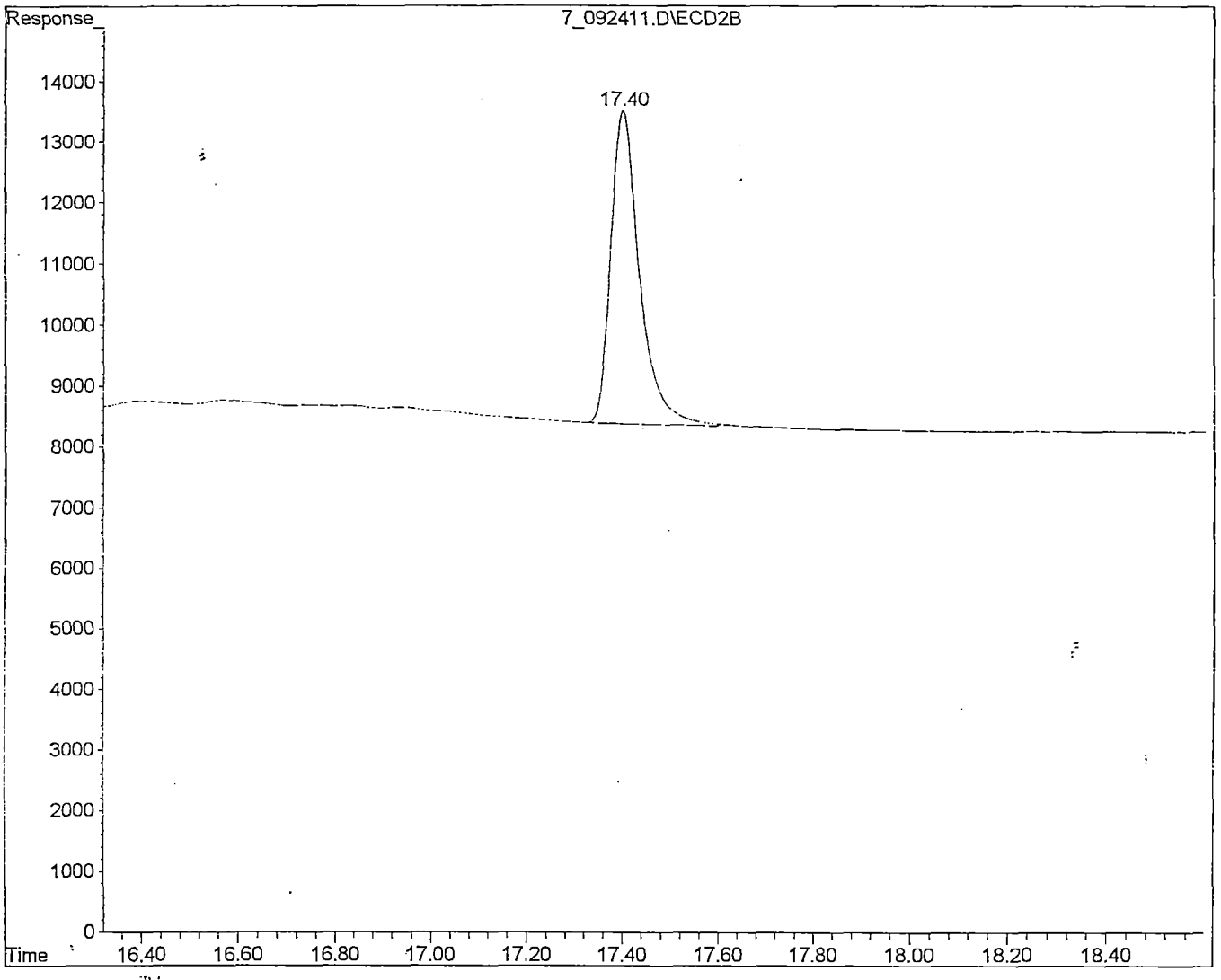
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.81	5.71	448426	555855	10.3	9.250
22)	S DCB	16.88	17.40	178926	213703	8.096	7.318m
							CA9-2541
	Target Compounds:						
7)	L4 Aroclor-1242	7.43	7.71	414439	541943	224.7	207.7
8)	L4 Aroclor-1242 {2}	8.46	8.72	360226	379342	151.6	145.9
9)	L4 Aroclor-1242 {3}	8.76	9.00	244015	404213	205.4	202.2
10)	L4 Aroclor-1242 {4}	9.19	9.50	303048	242721	211.2	199.0
11)	L4 Aroclor-1242 {5}	9.63	9.99	278690	412466	209.1	204.3
	Sum Aroclor-1242			1600418	1980686	1002.0	959.1
	Average Aroclor-1242					200.397	191.819

(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\7\DATA\09_24_01\7_092411.D
Date Acquired: 24 Sep 2001 18:31
Inst: HP_07 Operator ID: SA
Name: AR1242L27I
Misc: 5-10-7
Method: F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 7:36 2001 Quant Results File: XPCBI24.RES



DCB #2 17.40min area: 213703 m

Integration Time Range: 17.32 - 17.60

OK 9-27-01

F:\HPCHEM\HP\7\DATA\09_24_01\7_092411.D
Report generated: Tue Sep 25 08:12:29 2001

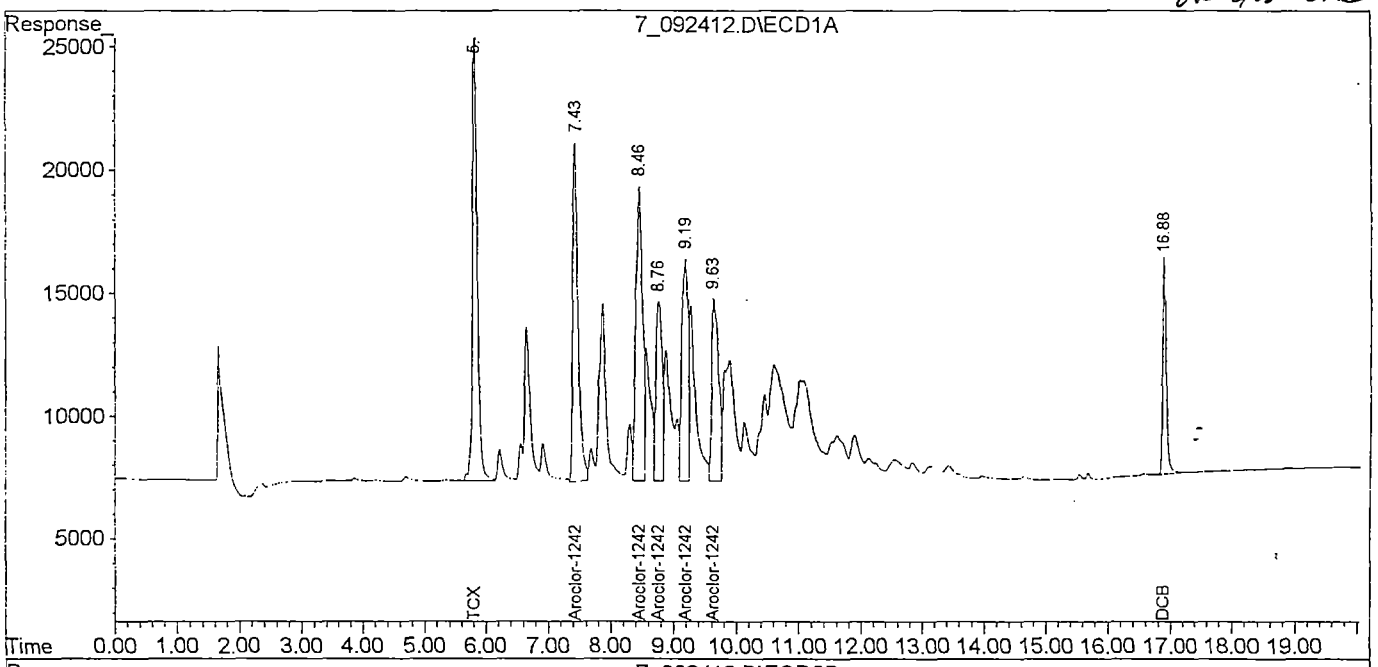
Chromatographic Report

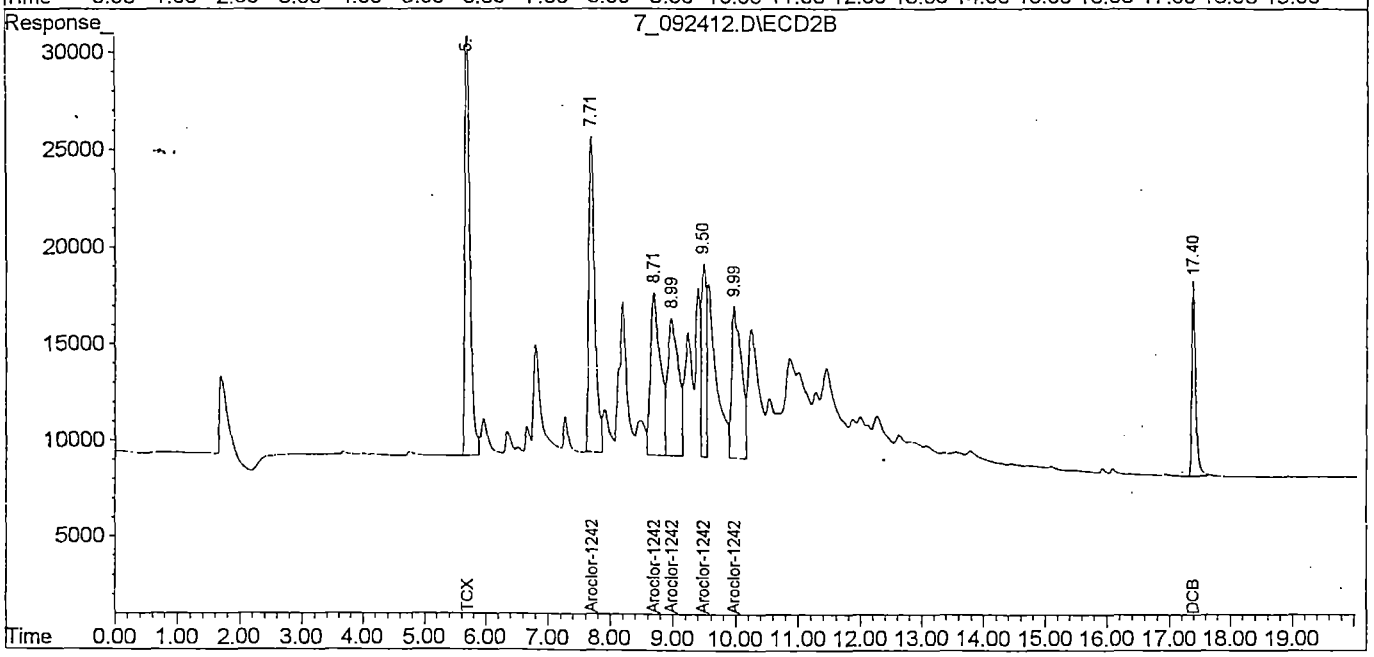
Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092412.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092412.D\ECD2B.CH
Acq On : 24 Sep 2001 18:55 Operator: SA
Sample : AR1242L37I ✓ Inst : HP_07
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:34 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-27-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092412.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092412.D\ECD2B.CH
Acq On : 24 Sep 2001 18:55 Operator: SA
Sample : AR1242L37I Inst : HP_07
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:34 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

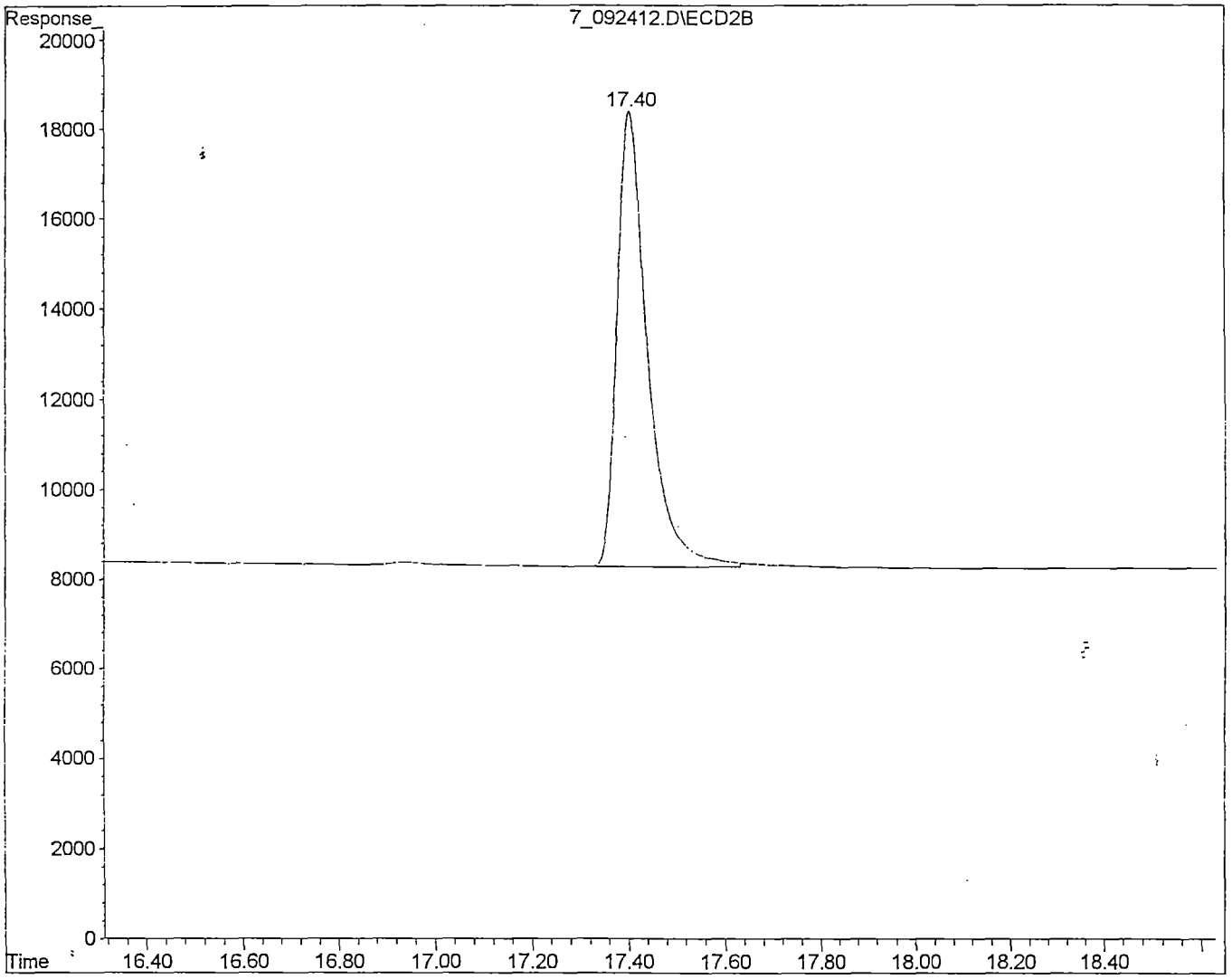
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.81	5.72	995919	1309995	22.9	21.8
22)	S DCB	16.88	17.40	354978	446953	16.1	15.3m
	Target Compounds:						
7)	L4 Aroclor-1242	7.43	7.71	824223	1130272	446.9	433.3
8)	L4 Aroclor-1242 {2}	8.46	8.71	851871	911391	358.6	350.5
9)	L4 Aroclor-1242 {3}	8.76	8.99	504116	832429	424.3	416.3
10)	L4 Aroclor-1242 {4}	9.19	9.50	613454	518775	427.4	425.4
11)	L4 Aroclor-1242 {5}	9.63	9.99	573063	850648	430.0	421.4
	Sum Aroclor-1242			3366727	4243515	2087.2	2046.8
	Average Aroclor-1242					417.440	409.355

09-25-01

(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\7\DATA\09_24_01\7_092412.D
Date Acquired: 24 Sep 2001 18:55
Inst: HP_07 Operator ID: SA
Name: AR1242L37I
Misc: 5-9-7
Method: F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 7:34 2001 Quant Results File: XPCBI24.RES



CS 9-25-01

DCB #2 17.40min area: 446953 m

Integration Time Range: 17.31 - 17.63

OK 9-27-01

F:\HPCHEM\HP\7\DATA\09_24_01\7_092412.D
Report generated: Tue Sep 25 08:12:32 2001

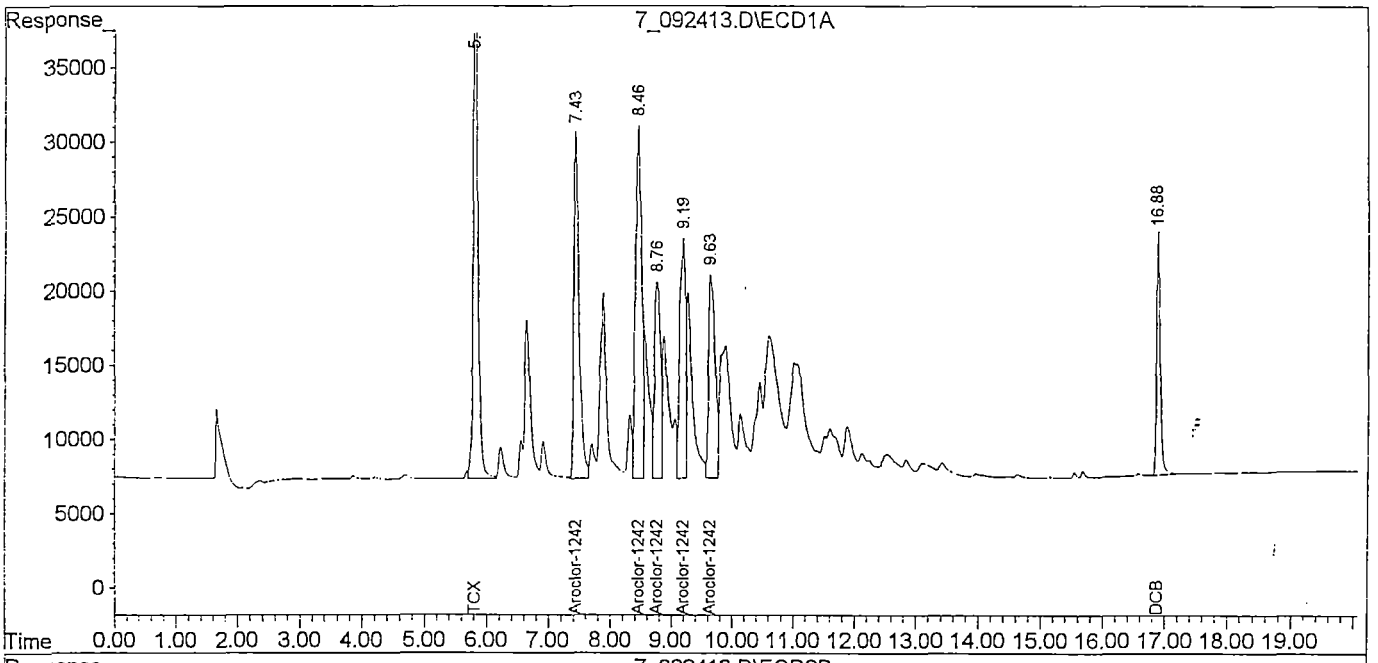
Chromatographic Report

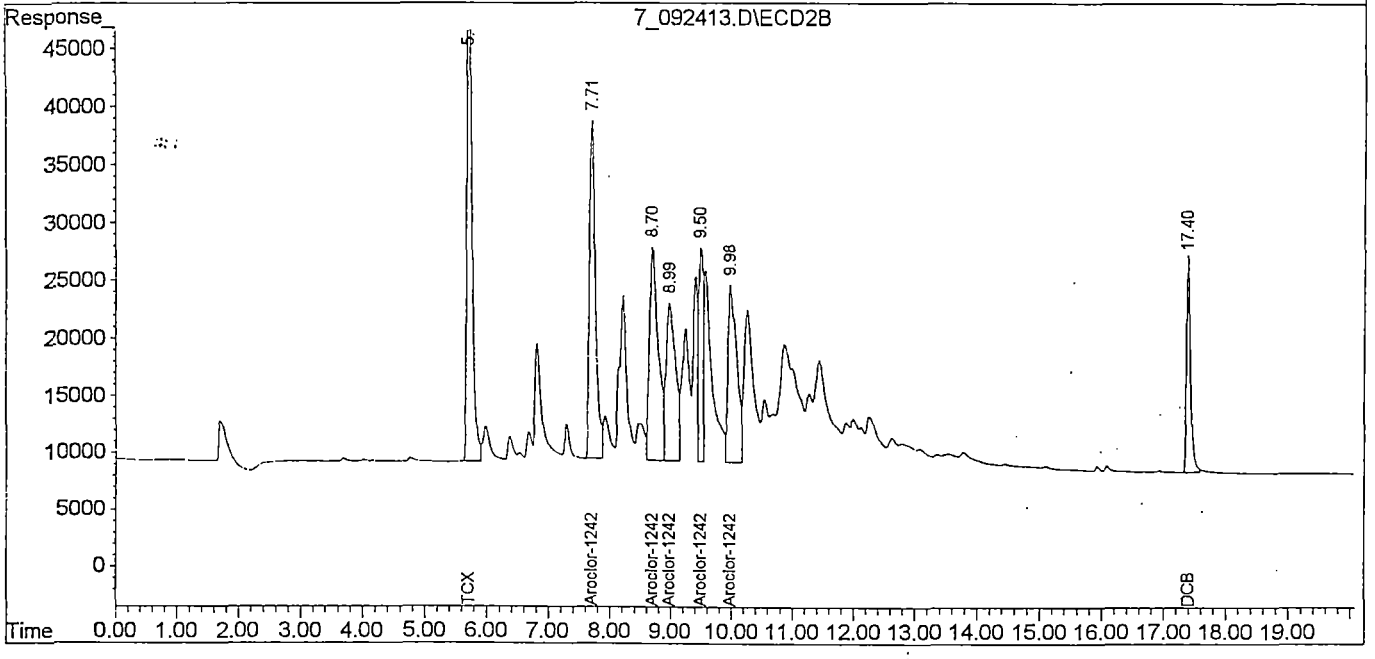
Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092413.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092413.D\ECD2B.CH
Acq On : 24 Sep 2001 19:20 Operator: SA
Sample : AR1242L47I ✓ Inst : HP_07
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:37 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

ok 9-27-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092413.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092413.D\ECD2B.CH
Acq On : 24 Sep 2001 19:20 Operator: SA
Sample : AR1242L47I Inst : HP_07
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:37 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

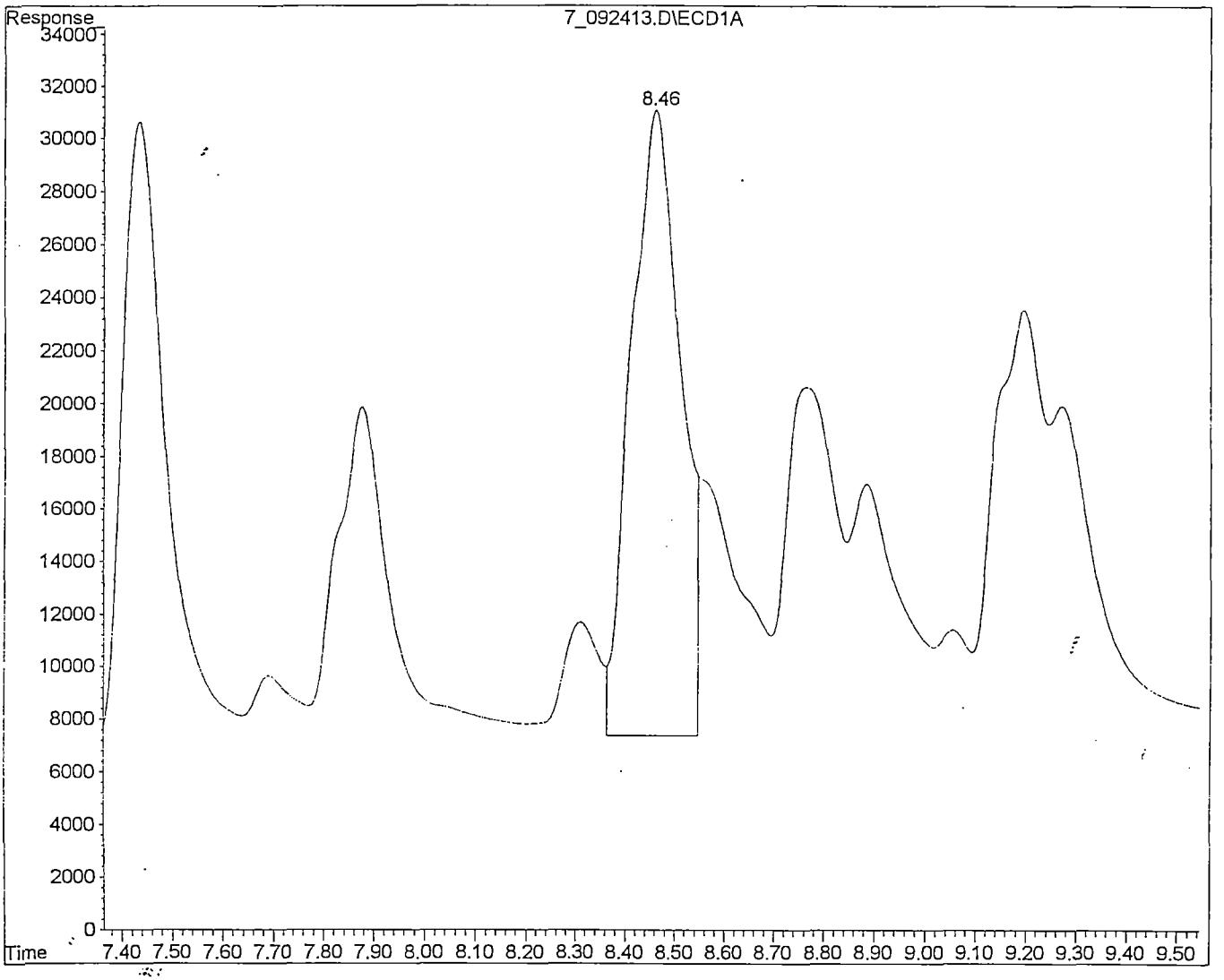
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82	5.72	1805762	2584392	41.6	43.0
22)	S DCB	16.88	17.40	668603	832066	30.3	28.5m
	Target Compounds:						
7)	L4 Aroclor-1242	7.43	7.71	1391525	1990661	754.4	763.1
8)	L4 Aroclor-1242 {2}	8.46	8.70	1653446	1884940	696.0m	724.9
9)	L4 Aroclor-1242 {3}	8.76	8.99	902413	1483517	759.6	741.9
10)	L4 Aroclor-1242 {4}	9.19	9.50	1076237	965541	749.9	791.7
11)	L4 Aroclor-1242 {5}	9.64	9.98	1041567	1558468	781.5	772.0
	Sum Aroclor-1242			6065188	7883127	3741.4	3793.5
	Average Aroclor-1242					748.286	758.703

092501

(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\7\DATA\09_24_01\7_092413.D
Date Acquired: 24 Sep 2001 19:20
Inst: HP_07 Operator ID: SA
Name: AR1242L47I
Misc: 5-8-7
Method: F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 7:37 2001 Quant Results File: XPCBI24.RES



CS 9-25-01

Aroclor-1242 {2} 8.46min area: 1653446 m

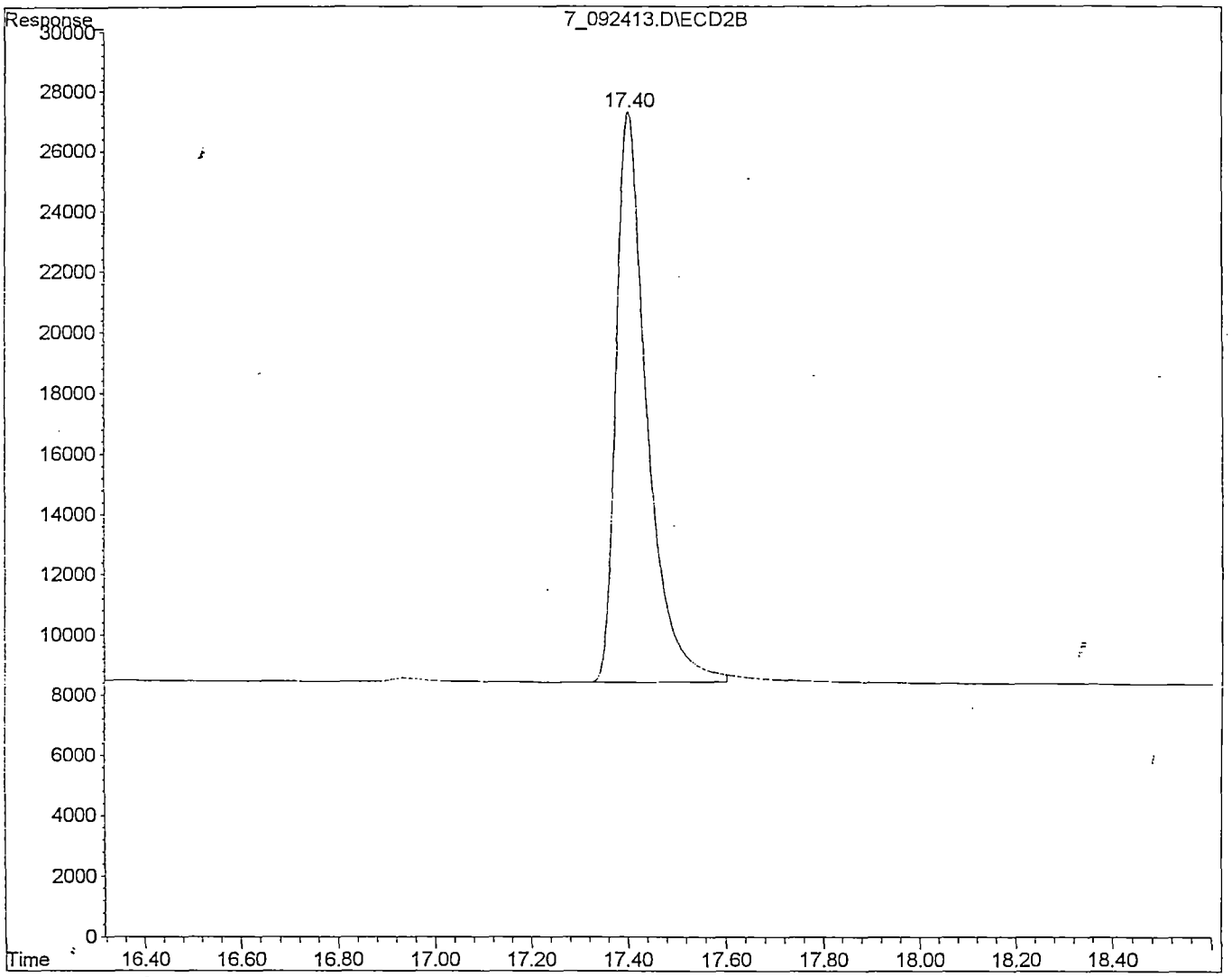
Integration Time Range: 8.36 - 8.55

OK 9-27-01

F:\HPCHEM\HP\7\DATA\09_24_01\7_092413.D
Report generated: Tue Sep 25 08:12:33 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_24_01\7_092413.D
Date Acquired: 24 Sep 2001 19:20
Inst: HP_07 Operator ID: SA
Name: AR1242L47I
Misc: 5-8-7
Method: F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 7:37 2001 Quant Results File: XPCBI24.RES



09-25-01

DCB #2 17.40min area: 832066 m

Integration Time Range: 17.32 - 17.60

OK 9-27-01

F:\HPCHEM\HP\7\DATA\09_24_01\7_092413.D
Report generated: Tue Sep 25 08:12:35 2001

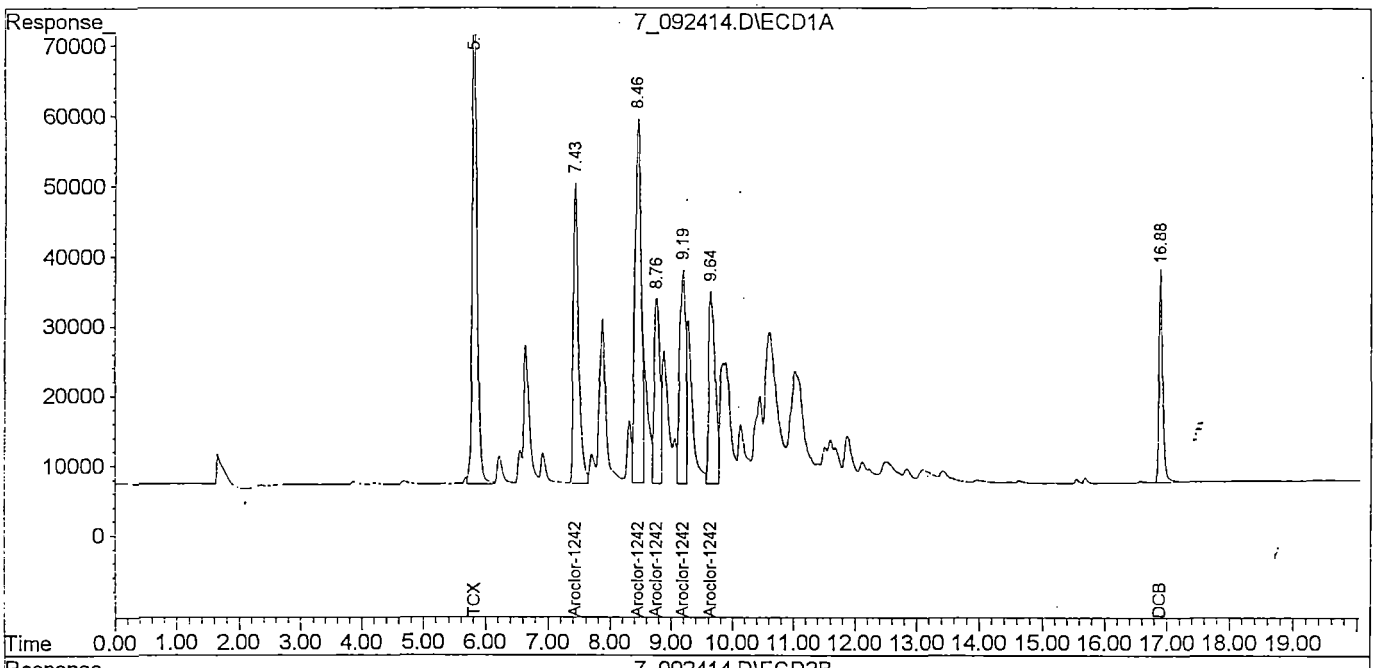
Chromatographic Report

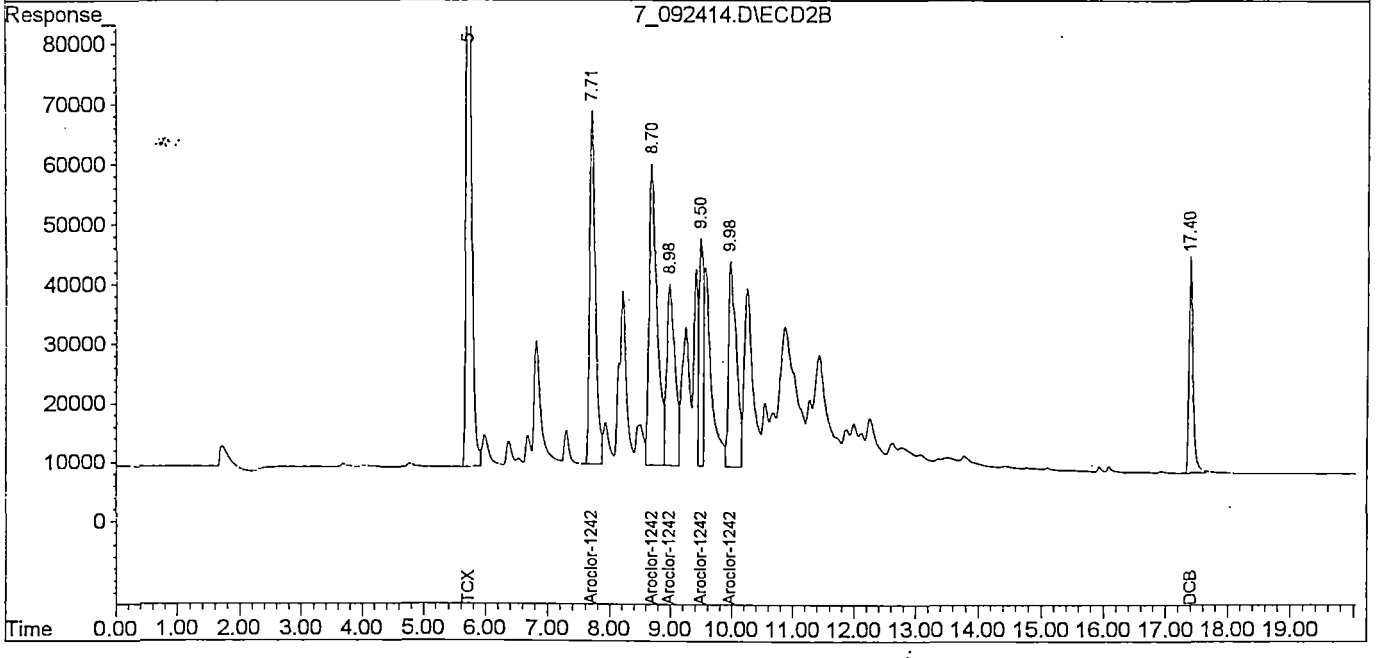
Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092414.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092414.D\ECD2B.CH
Acq On : 24 Sep 2001 19:44 Operator: SA
Sample : AR1242L57I ✓ Inst : HP_07
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:38 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-27-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092414.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092414.D\ECD2B.CH
Acq On : 24 Sep 2001 19:44 Operator: SA
Sample : AR1242L57I Inst : HP_07
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:38 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

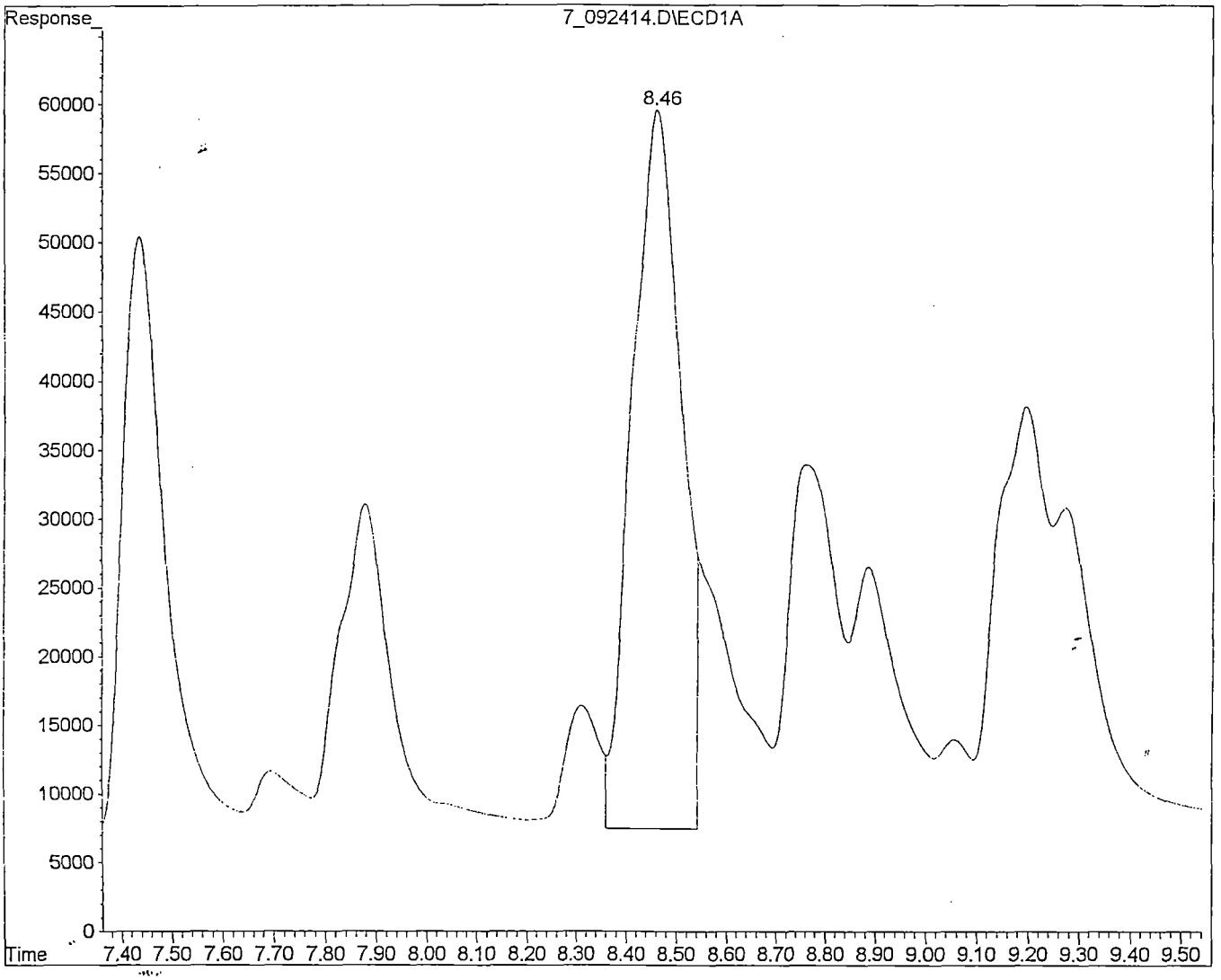
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds:						
1) S TCX	5.82	5.72	3689481	5909323	85.0 E	98.3 E
22) S DCB	16.88	17.40	1252543	1602760	56.7 E	54.9mE
Target Compounds:						
7) L4 Aroclor-1242	7.44	7.71	2555086	3907012	1385.3	1497.7 E
8) L4 Aroclor-1242 {2}	8.46	8.70	3513866	4601593	1479.1m	1769.6 E
9) L4 Aroclor-1242 {3}	8.76	8.98	1745306	2931185	1469.1	1465.9
10) L4 Aroclor-1242 {4}	9.20	9.50	2025568	1962175	1411.3	1608.8
11) L4 Aroclor-1242 {5}	9.64	9.98	2006165	3159428	1505.3	1565.0
Sum Aroclor-1242			11845991	16561393	7250.1	7907.0
Average Aroclor-1242					1450.021	1581.401

DG.25.01

(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\7\DATA\09_24_01\7_092414.D
Date Acquired: 24 Sep 2001 19:44
Inst: HP_07 Operator ID: SA
Name: AR1242L57I
Misc: 5-7-7
Method: F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 7:38 2001 Quant Results File: XPCBI24.RES



09-25-01

Aroclor-1242 {2} 8.46min area: 3513866 m

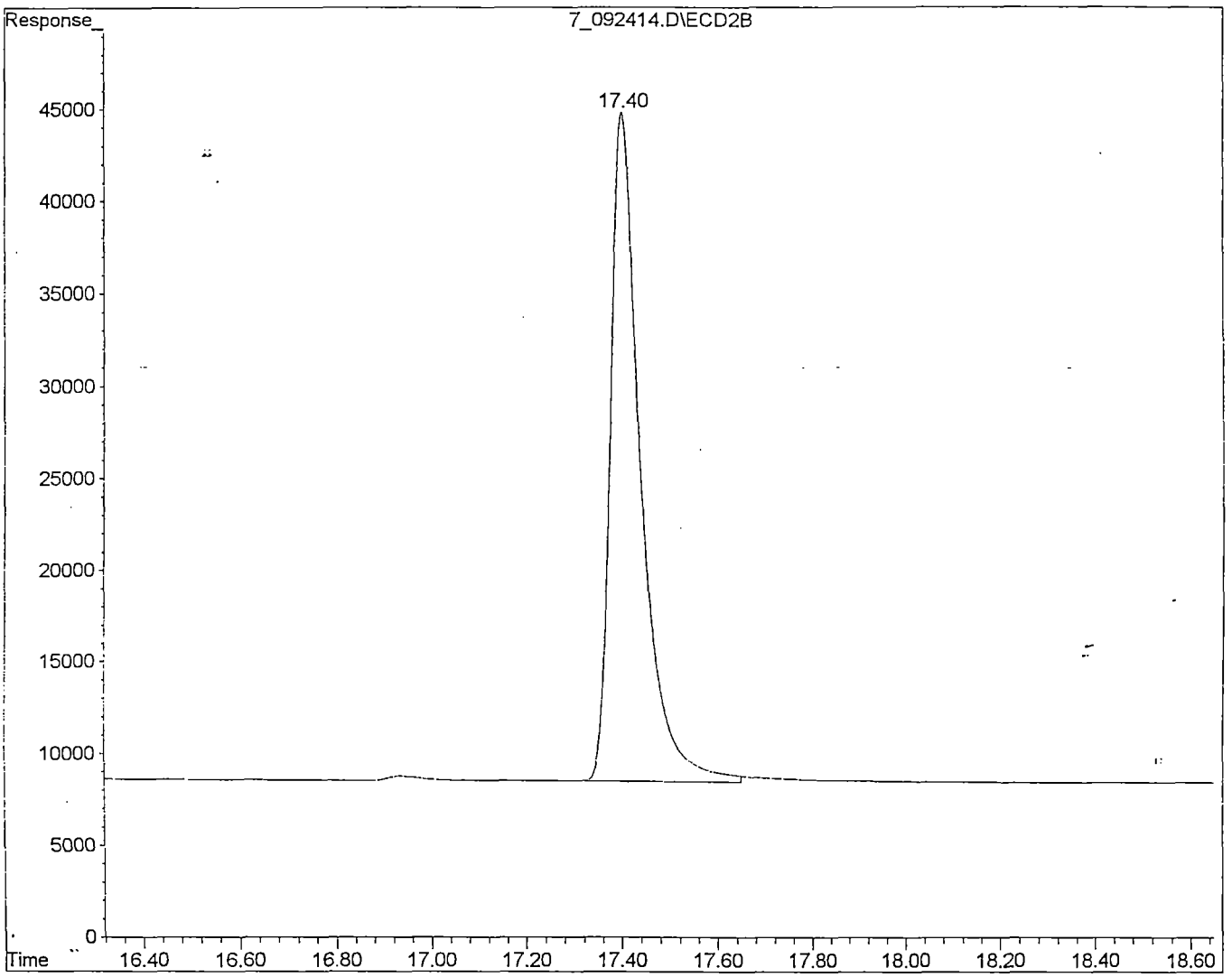
Integration Time Range: 8.36 - 8.54

OK 9-27-01 GH

F:\HPCHEM\HP\7\DATA\09_24_01\7_092414.D
Report generated: Tue Sep 25 08:12:36 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_24_01\7_092414.D
Date Acquired: 24 Sep 2001 19:44
Inst: HP_07 Operator ID: SA
Name: AR1242L57I
Misc: 5-7-7
Method: F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 7:38 2001 Quant Results File: XPCBI24.RES



CA 9-25-01

DCB #2 17.40min area: 1602760 m

Integration Time Range: 17.32 - 17.65

Ok 9-27-01

F:\HPCHEM\HP\7\DATA\09_24_01\7_092414.D
Report generated: Tue Sep 25 08:12:38 2001

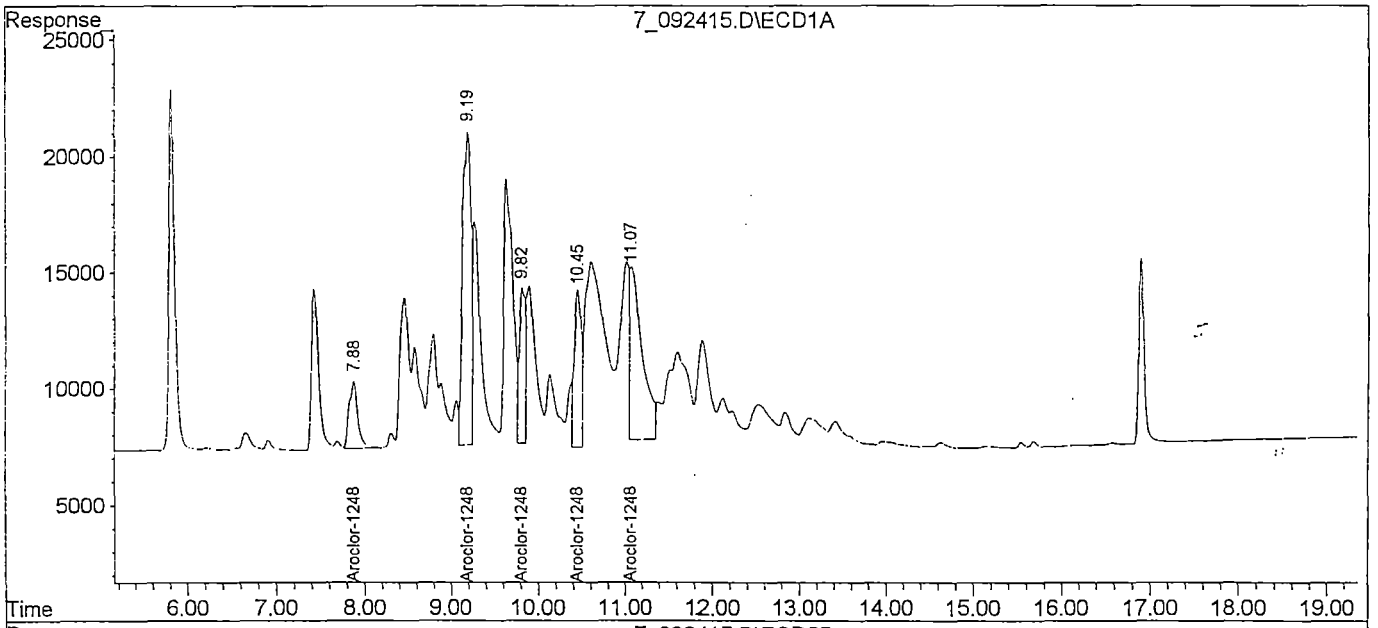
Chromatographic Report

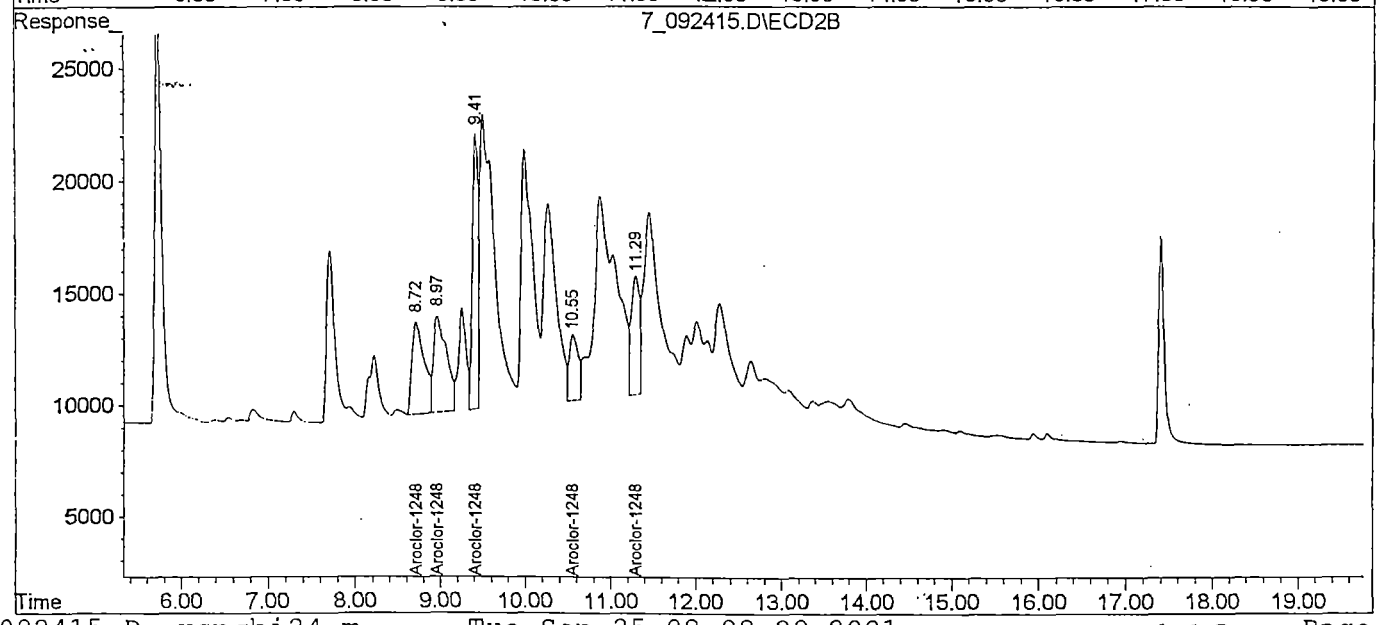
Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092415.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092415.D\ECD2B.CH
Acq On : 24 Sep 2001 20:08 Operator: SA
Sample : AR1248L37I ✓ Inst : HP_07
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:29 2001 Quant Results File: xspcbi24.RES
Quant Time: Sep 25 7:29 2001 Quant Results File: xspcbi24.RES

Pesticide Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001

Multi-Component Method : f:\hpchem\hp\7\data\09_24_01\xspcbi24.m
Title : PCB/TOXAPHENE
Last Update : Wed May 30 11:44:17 2001
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-27-01





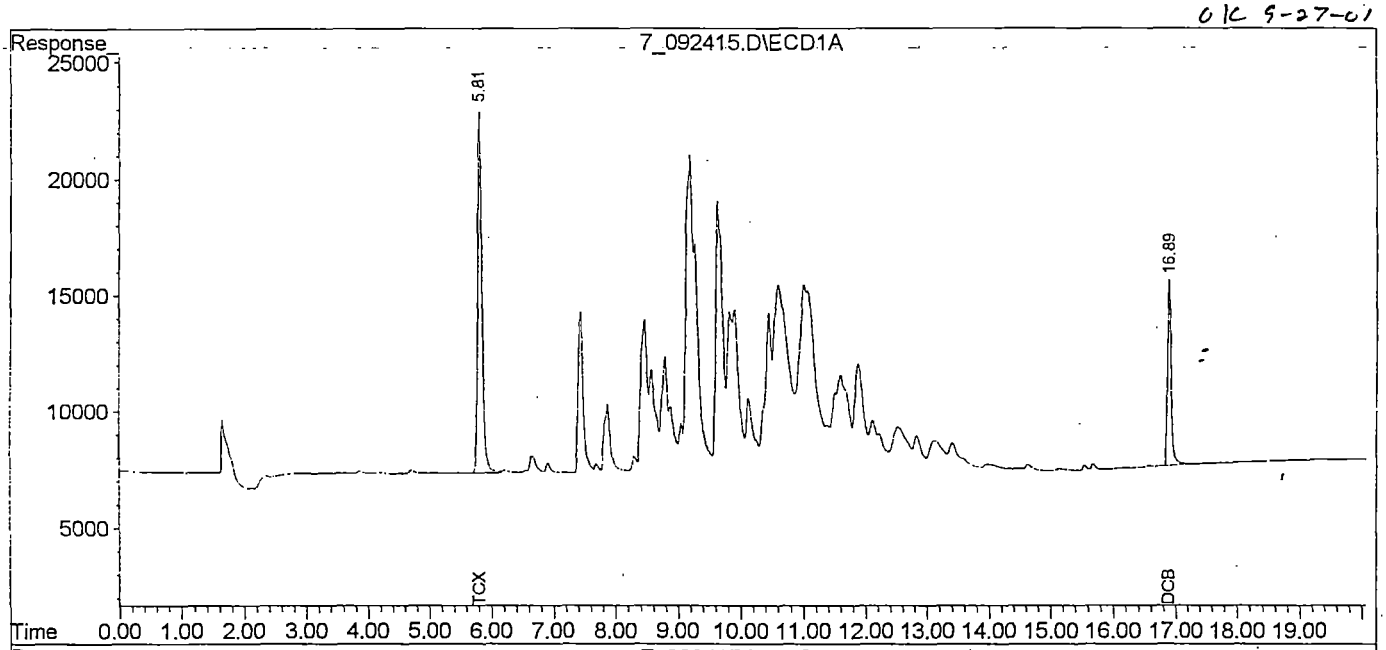
Chromatographic Report

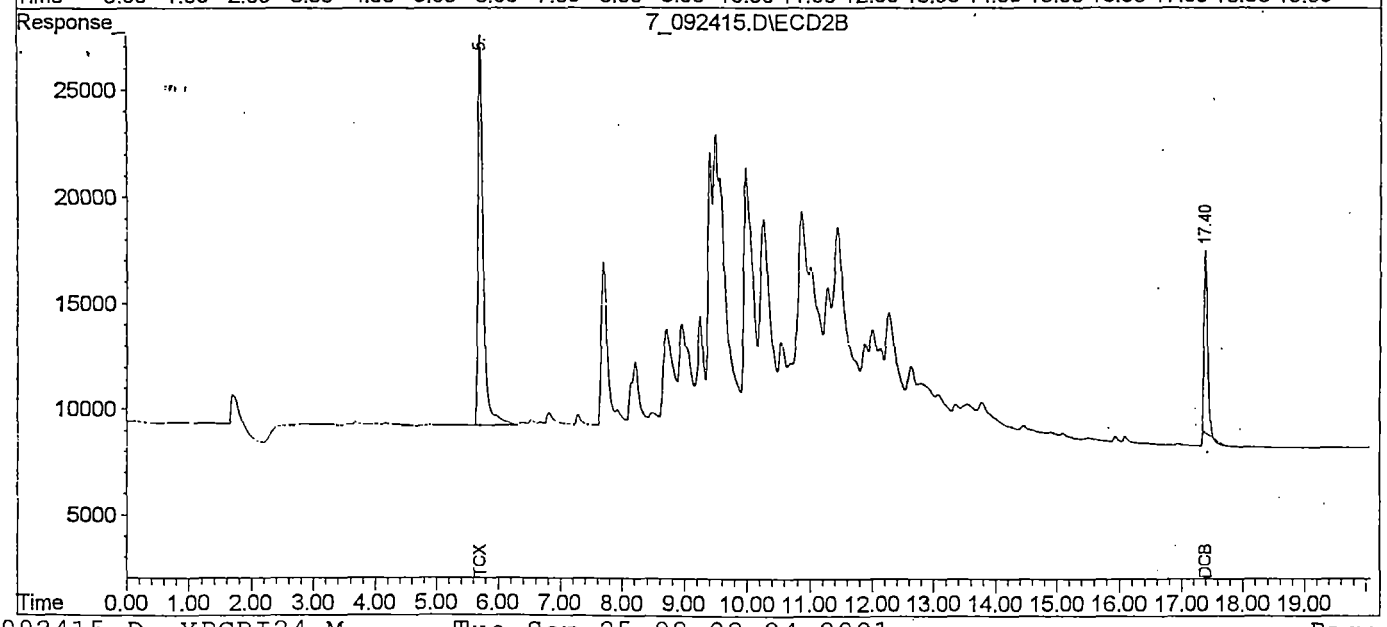
Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092415.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092415.D\ECD2B.CH
Acq On : 24 Sep 2001 20:08 Operator: SA
Sample : AR1248L37I Inst : HP_07
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:23 2001 Quant Results File: XPCBI24.RES
Quant Time: Sep 25 7:29 2001 Quant Results File: xspcbi24.RES

Pesticide Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001

Multi-Component Method : f:\hpchem\hp\7\data\09_24_01\xspcbi24.m
Title : PCB/TOXAPHENE
Last Update : Wed May 30 11:44:17 2001
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-27-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092415.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092415.D\ECD2B.CH
Acq On : 24 Sep 2001 20:08 Operator: SA
Sample : AR1248L37I Inst : HP_07
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:23 2001 Quant Results File: XPCBI24.RES
Multi Time: Sep 25 7:29 2001 Quant Results File: xspcbi24.RES

Pesticide Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001

Multi-Component Method : f:\hpchem\hp\7\data\09_24_01\xspcbi24.m
Title : PCB/TOXAPHENE
Last Update : Wed May 30 11:44:17 2001
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

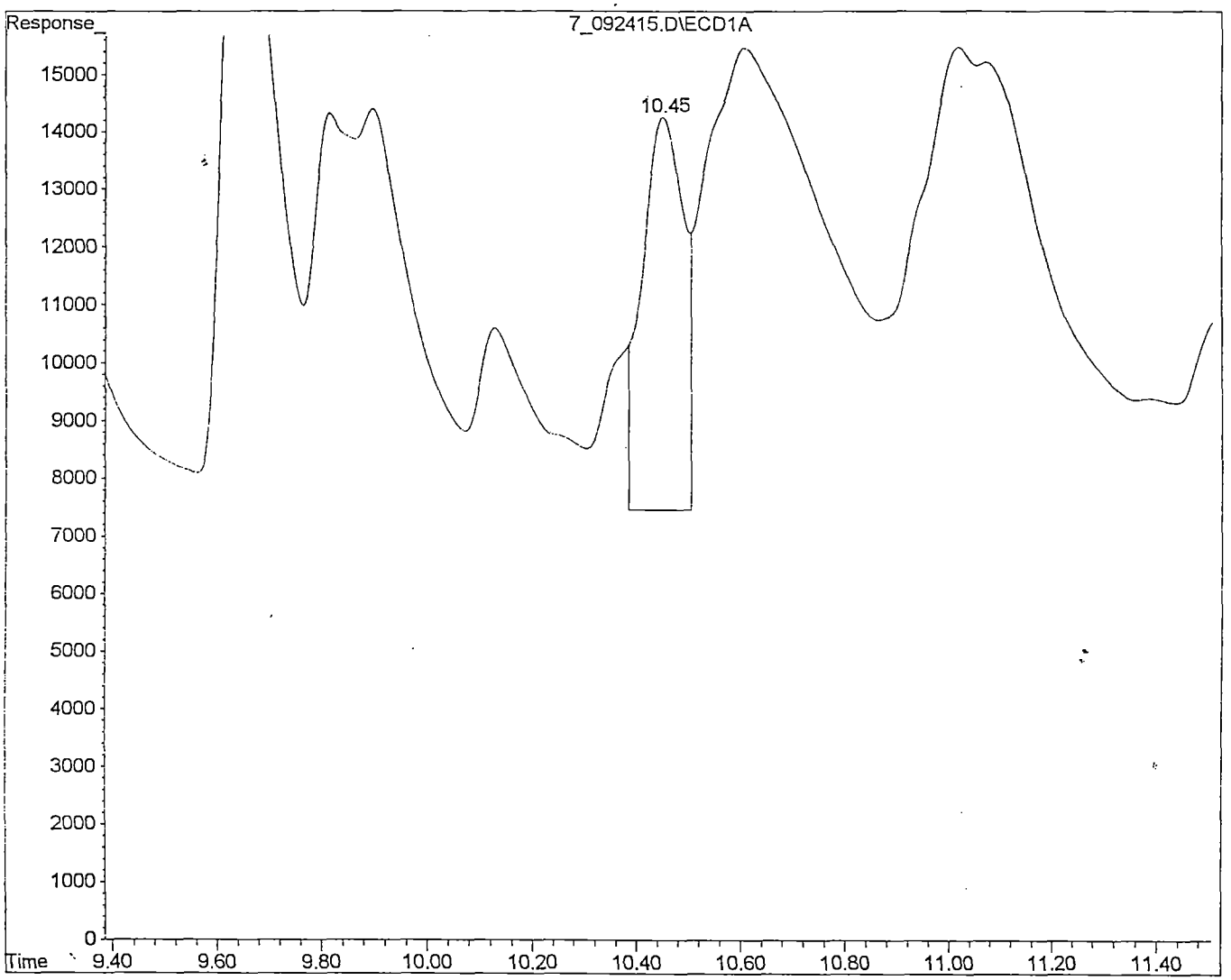
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.81	5.72	753570	1082437	17.4	18.0	
22)	S DCB	16.89	17.40	333357	337977	15.1	11.6	
	Target Compounds:							
	Multi-Component Compounds:							
14)	L5 Aroclor-1248	7.88	8.72	199173	421609	420.4	321.0	
15)	L5 Aroclor-1248 {2}	9.19	8.97	905366	475351	387.7	379.9	
16)	L5 Aroclor-1248 {3}	9.82	9.42	327695	542136	350.1	366.3	
17)	L5 Aroclor-1248 {4}	10.45f	10.56	377033	214886	1349.8m	422.1	#
18)	L5 Aroclor-1248 {5}	11.07	11.29	753148	359699	456.5	397.2	
	Sum Aroclor-1248			2562415	2013681	2964.5	1886.6	
	Average Aroclor-1248					592.906	377.314	

09-25-1

(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\7\DATA\09_24_01\7_092415.D
Date Acquired: 24 Sep 2001 20:08
Inst: HP_07 Operator ID: SA
Name: AR1248L37I
Misc: 5-424-6
Method: f:\hpchem\hp\7\data\09_24_01\xspcbi24.m
Title:
Quant Time: Sep 25 7:29 2001 Quant Results File: xspcbi24.RES



A 9-25-01

Aroclor-1248 {4} 10.45min area: 377033 m

Integration Time Range: 10.39 - 10.50

OK 9-27-01

F:\HPCHEM\HP\7\DATA\09_24_01\7_092415.D
Report generated: Tue Sep 25 08:12:41 2001

Response Factor Report HP_07

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

OK 9-27-01

Calibration Files
L1 =7_092416.D L2 =7_092417.D L3 =7_092418.D
L4 =7_092419.D L5 =7_092420.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
12) Aroclor-1254	3.4	3.5	3.4	3.3	3.3	3.4 E3	2.35
13) Aroclor-1254 {2}	5.4	5.4	5.1	4.9	4.8	5.1 E3	5.60
14) Aroclor-1254 {3}	3.1	3.2	3.1	3.2	3.3	3.2 E3	1.79
15) Aroclor-1254 {4}	2.8	2.7	2.5	2.3	2.3	2.5 E3	8.54
16) Aroclor-1254 {5}	3.5	3.6	3.3	3.3	3.3	3.4 E3	3.54

Signal #2 Calibration Files
L1 =7_092416.D L2 =7_092417.D L3 =7_092418.D
L4 =7_092419.D L5 =7_092420.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
35) Aroclor-1254 #2	3.0	3.1	3.2	3.4	3.6	3.3 E3	7.56
36) Aroclor-1254 {2} #2	2.5	2.6	2.7	2.9	3.1	2.8 E3	8.32
37) Aroclor-1254 {3} #2	5.2	5.2	5.1	5.4	5.9	5.4 E3	6.30
38) Aroclor-1254 {4} #2	2.8	2.7	2.5	2.5	2.6	2.6 E3	5.85
39) Aroclor-1254 {5} #2	5.1	4.9	4.5	4.4	4.9	4.8 E3	5.93

(#) = Out of Range

XPCBI24.M Tue Sep 25 07:51:57 2001

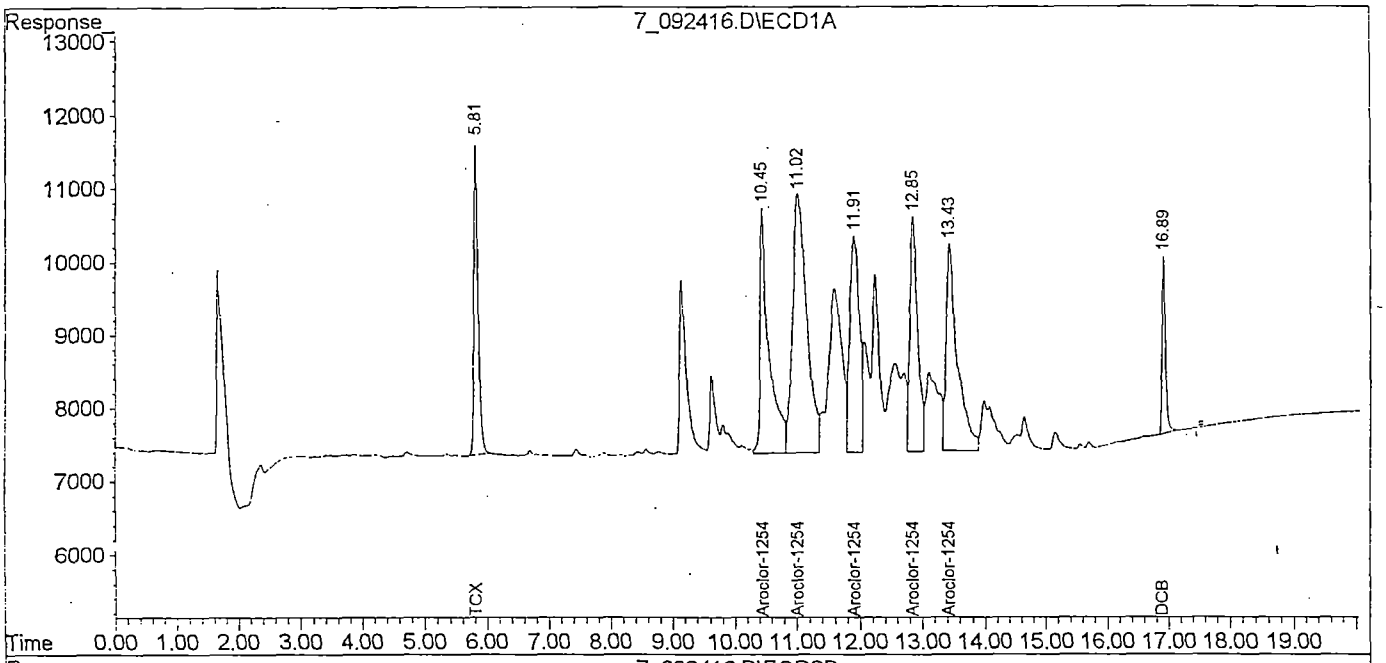
Chromatographic Report

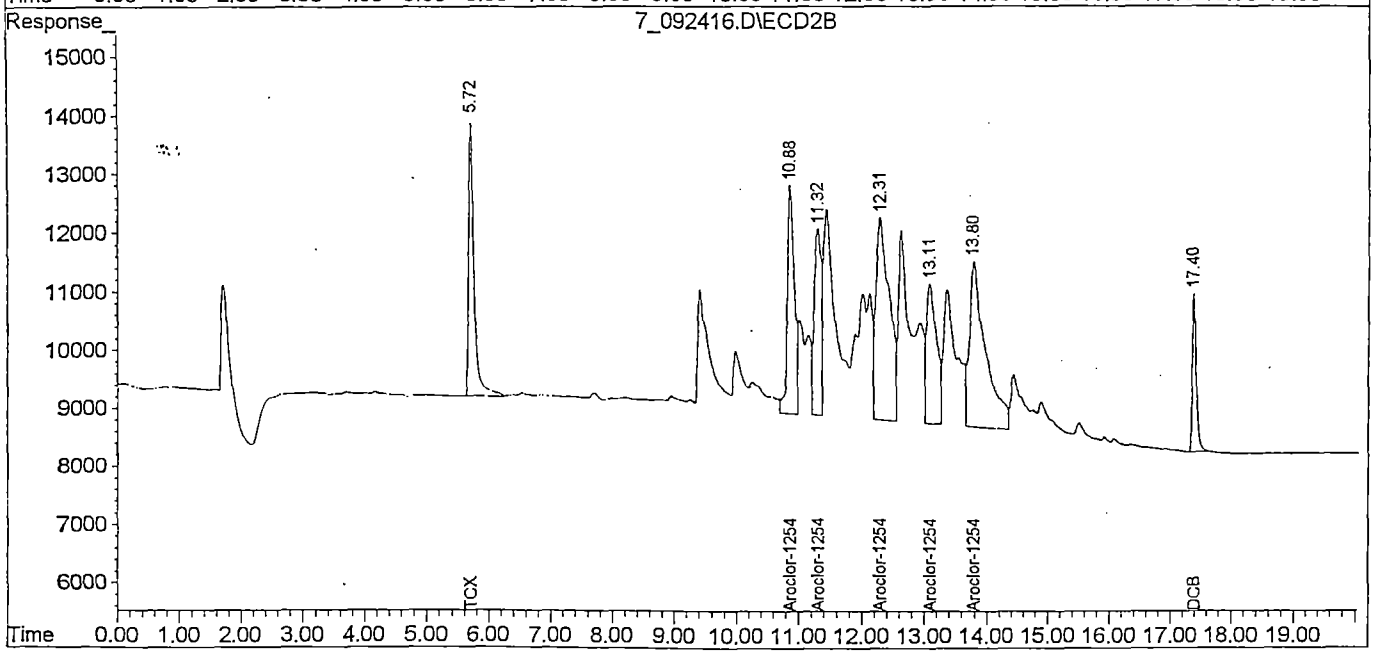
Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092416.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092416.D\ECD2B.CH
Acq On : 24 Sep 2001 20:33 Operator: SA
Sample : AR1254L17I ✓ Inst : HP_07
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:43 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

ok 9-27-01 AR





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092416.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092416.D\ECD2B.CH
Acq On : 24 Sep 2001 20:33 Operator: SA
Sample : AR1254L17I Inst : HP_07
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:43 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

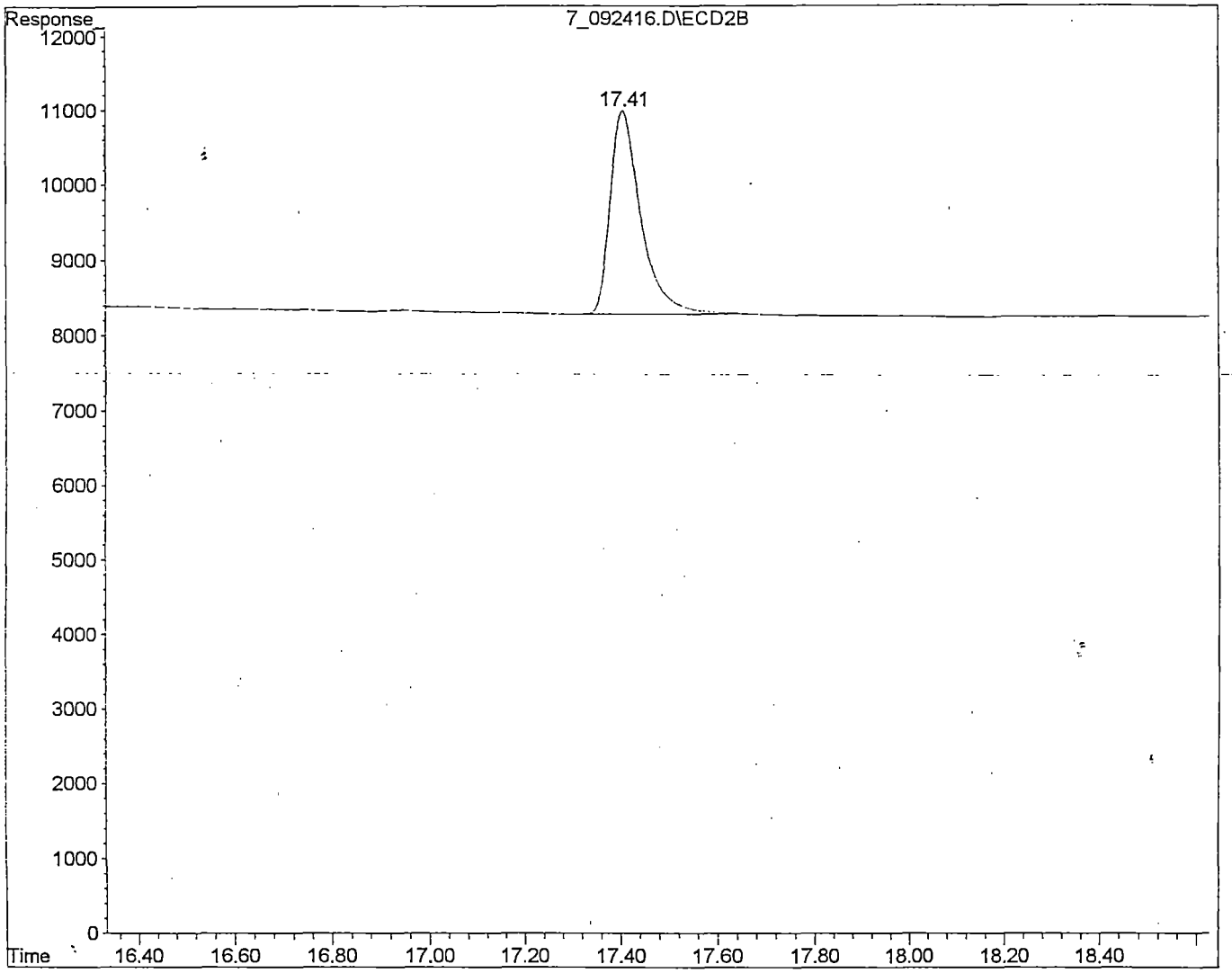
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.81	5.72	203246	281374	4.682	4.682	
22)	S DCB	16.89	17.40	95476	120650	4.320	4.132m	
							09-25-01	
	Target Compounds:							
12)	L6 Aroclor-1254	10.45	10.88	337922	302773	185.8	93.1	#
13)	L6 Aroclor-1254 {2}	11.02	11.32	540550	250536	112.1	90.4	
14)	L6 Aroclor-1254 {3}	11.91f	12.31	314630	517138	101.0	100.2	
15)	L6 Aroclor-1254 {4}	12.85	13.11	277225	284210	113.1	106.1	
16)	L6 Aroclor-1254 {5}	13.43	13.80	351524	511260	104.5	105.5	
	Sum Aroclor-1254			1821852	1865916	616.4	495.4	
	Average Aroclor-1254					123.289	99.074	

(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\7\DATA\09_24_01\7_092416.D
Date Acquired: 24 Sep 2001 20:33
Inst: HP_07 Operator ID: SA
Name: AR1254L17I
Misc: 5-6-7
Method: F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 7:43 2001 Quant Results File: XPCBI24.RES



09-25-01

DCB #2 17.40min area: 120650 m

Integration Time Range: 17.33 - 17.63

OK 9-27-01

F:\HPCHEM\HP\7\DATA\09_24_01\7_092416.D
Report generated: Tue Sep 25 08:12:44 2001

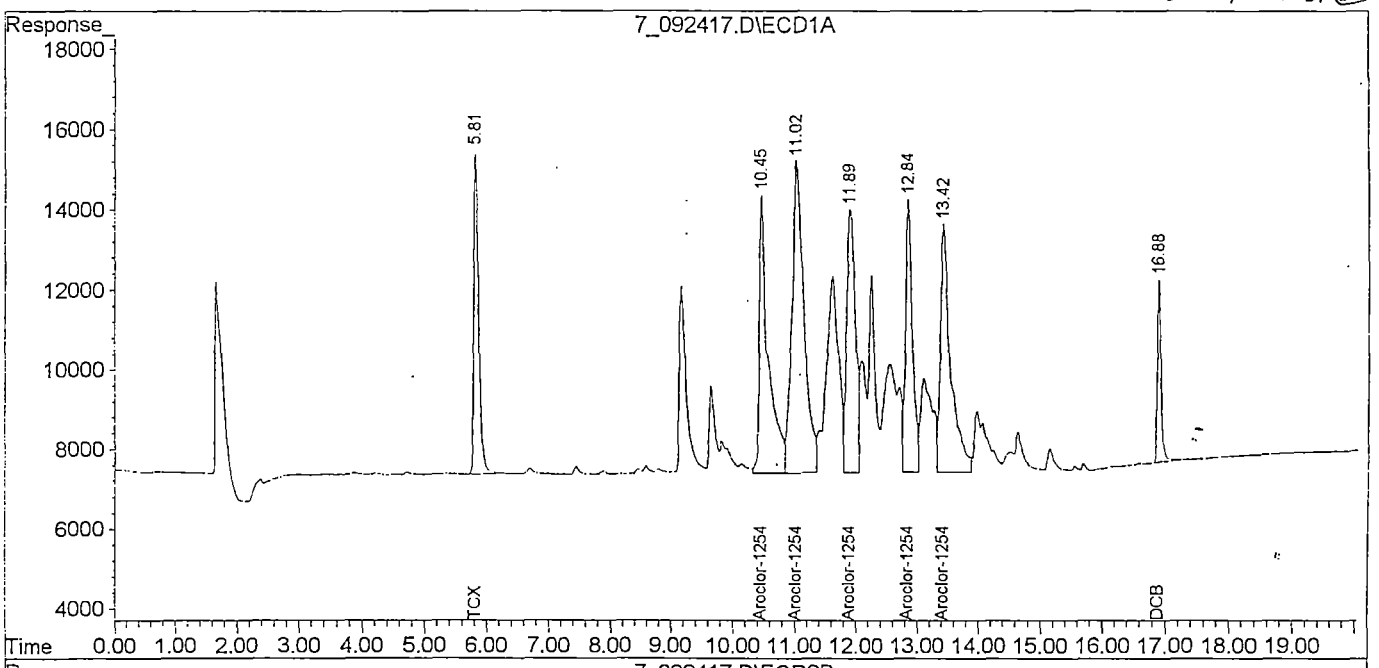
Chromatographic Report

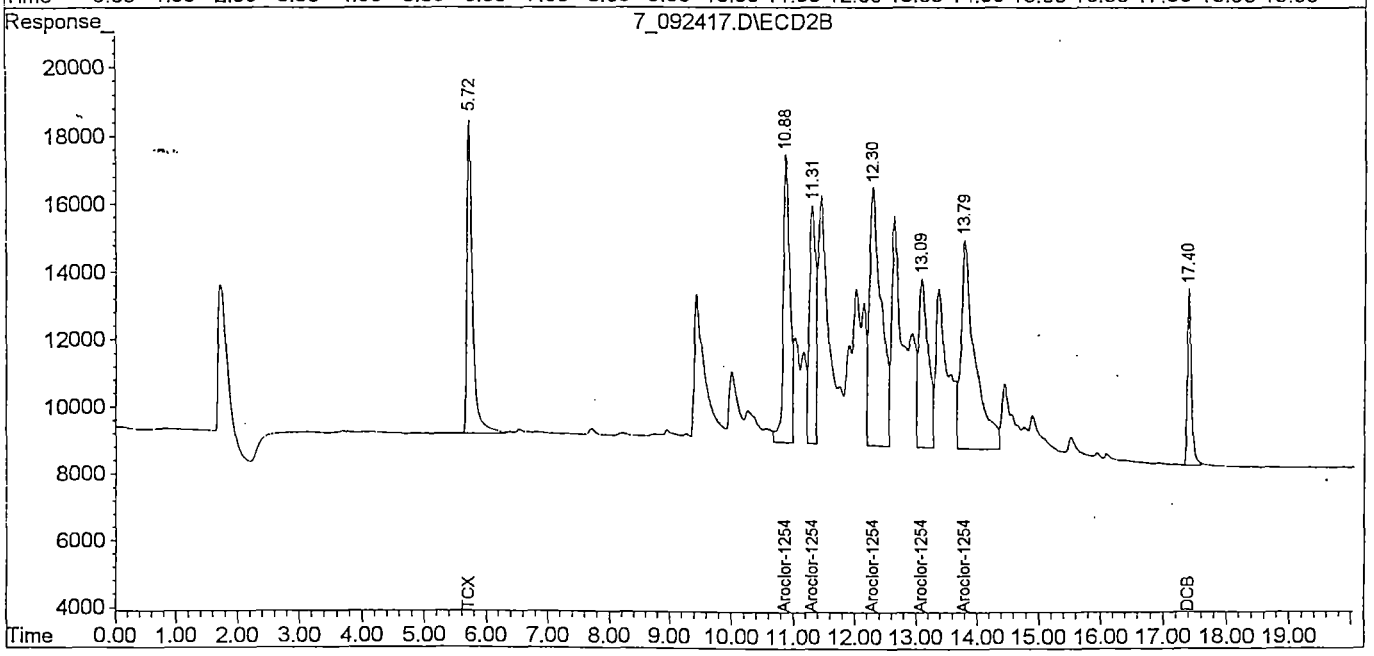
Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092417.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092417.D\ECD2B.CH
Acq On : 24 Sep 2001 20:57 Operator: SA
Sample : AR1254L27I ✓ Inst : HP_07
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:44 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

Ok 9-27-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092417.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092417.D\ECD2B.CH
Acq On : 24 Sep 2001 20:57 Operator: SA
Sample : AR1254L27I Inst : HP_07
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:44 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

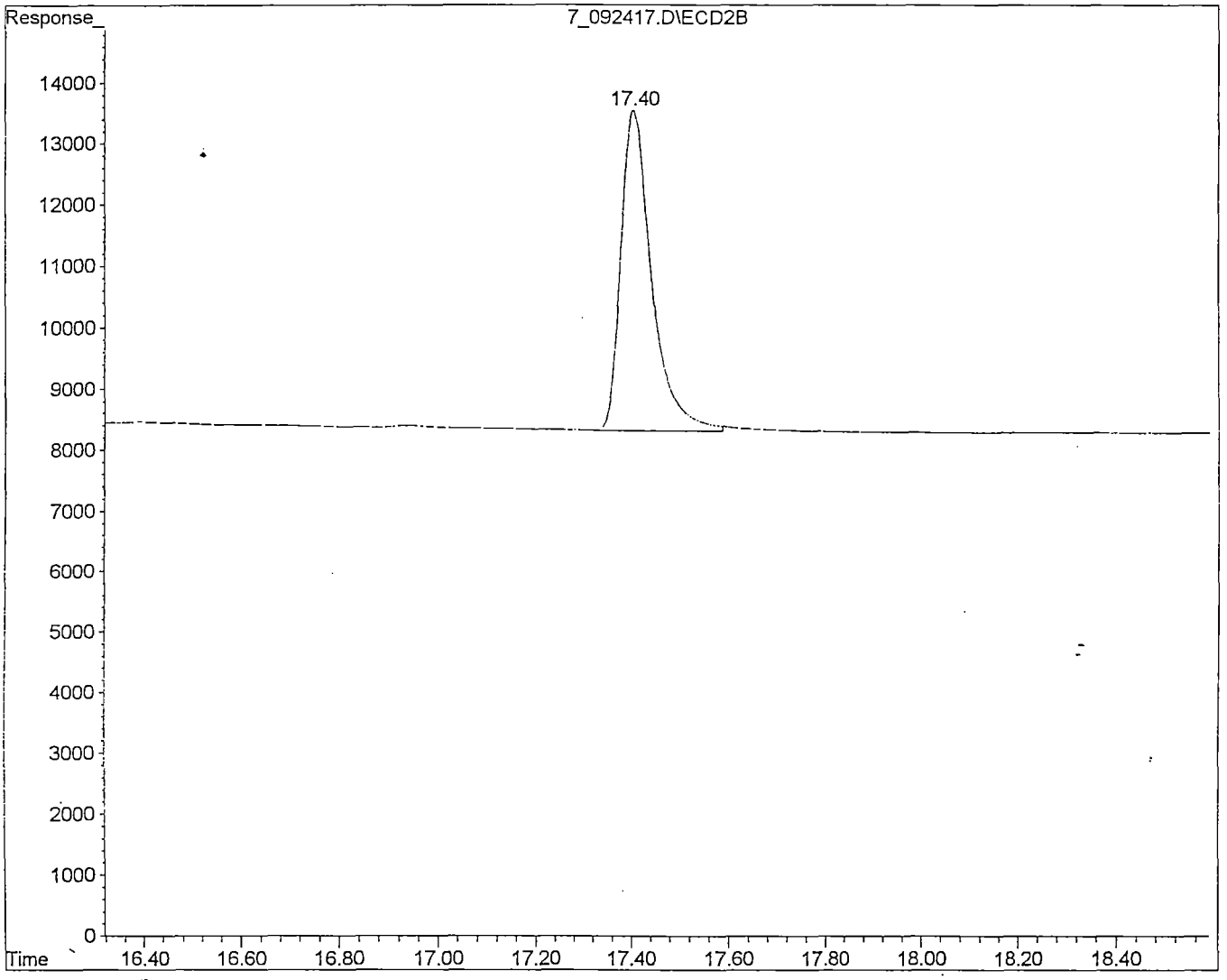
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.81	5.72	433528	597333	9.987	9.940	
22)	S DCB	16.88	17.40	184373	230957	8.343	7.909m	
							09-25-01	
	Target Compounds:							
12)	L6 Aroclor-1254	10.46	10.88	702291	629678	386.0	193.6	#
13)	L6 Aroclor-1254 {2}	11.02	11.31	1084839	529700	225.0	191.2	
14)	L6 Aroclor-1254 {3}	11.89	12.30	645724	1038914	207.3	201.4	
15)	L6 Aroclor-1254 {4}	12.84	13.10	544645	543168	222.3	202.7	
16)	L6 Aroclor-1254 {5}	13.42	13.80	712638	981547	211.8	202.5	
	Sum Aroclor-1254			3690135	3723005	1252.3	991.5	
	Average Aroclor-1254					250.468	198.303	

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_24_01\7_092417.D
Date Acquired: 24 Sep 2001 20:57
Inst: HP_07 Operator ID: SA
Name: AR1254L27I
Misc: 5-5-7
Method: F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 7:44 2001 Quant Results File: XPCBI24.RES



DCB #2 17.40min area: 230957 m

Integration Time Range: 17.32 - 17.59

F:\HPCHEM\HP\7\DATA\09_24_01\7_092417.D
Report generated: Tue Sep 25 08:12:46 2001

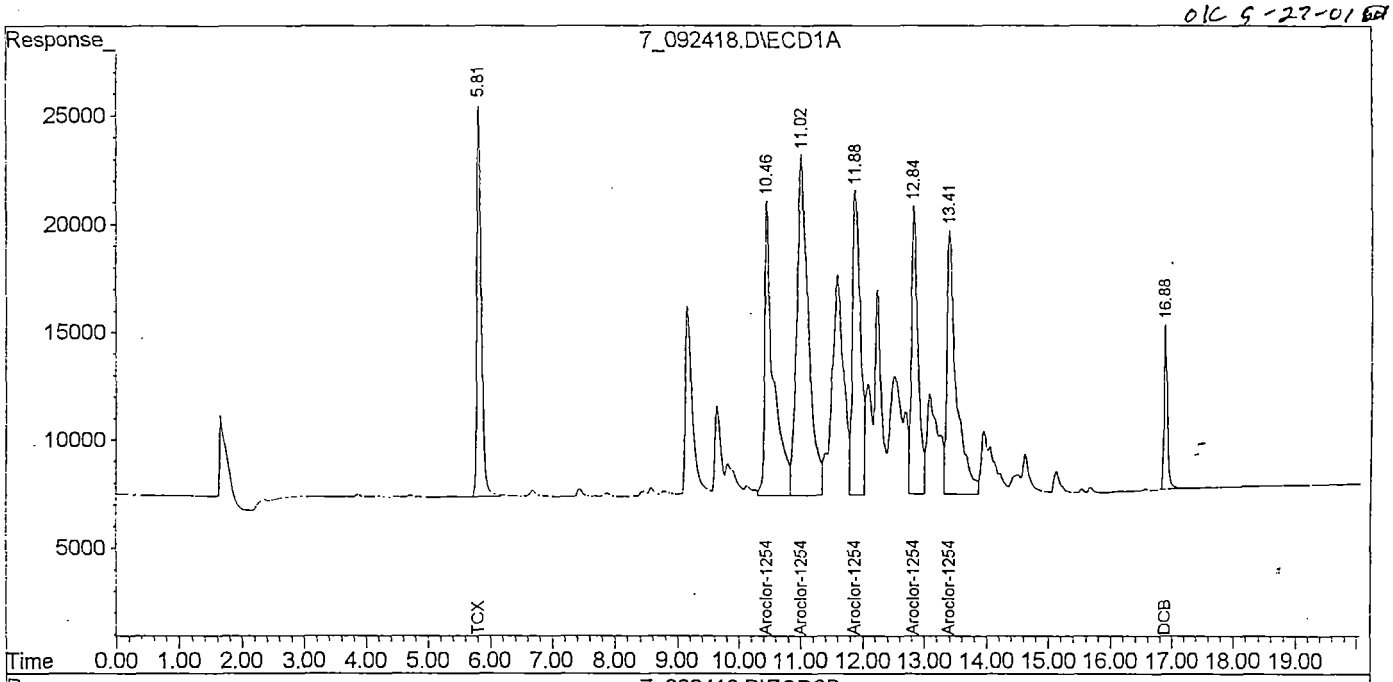
Chromatographic Report

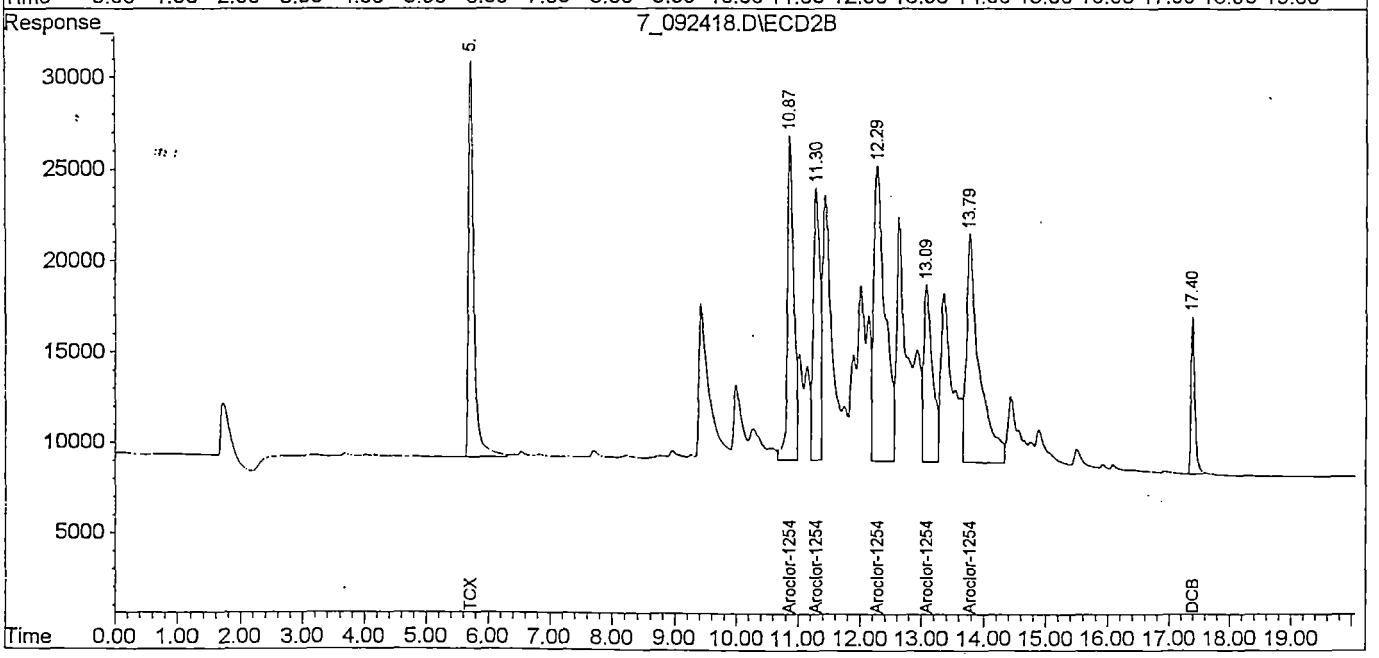
Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092418.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092418.D\ECD2B.CH
Acq On : 24 Sep 2001 21:21 Operator: SA
Sample : AR1254L37I Inst : HP_07
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:41 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-27-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092418.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092418.D\ECD2B.CH
Acq On : 24 Sep 2001 21:21 Operator: SA
Sample : AR1254L37I Inst : HP_07
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:41 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

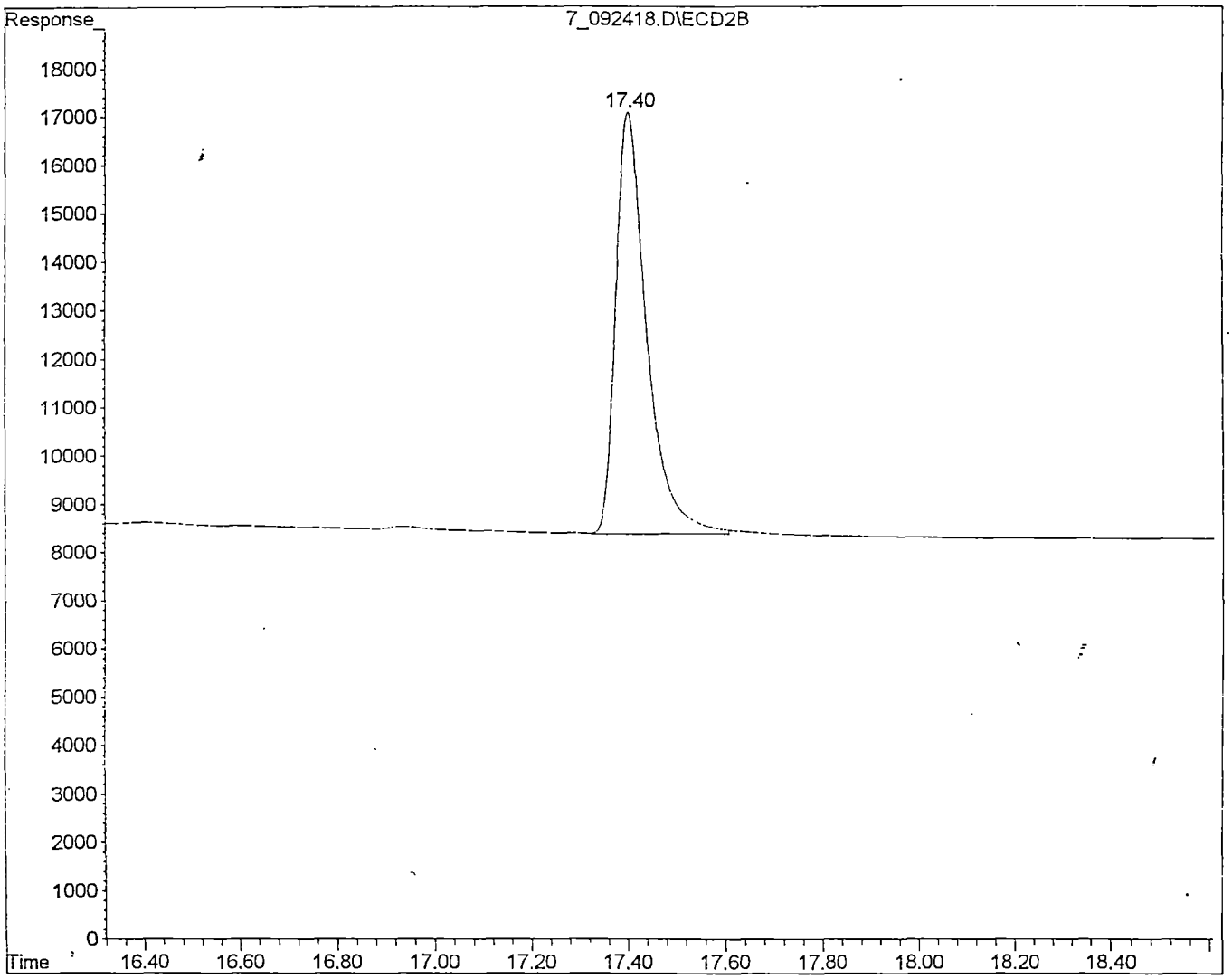
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.82	5.72	899486	1294327	20.7	21.5	
22)	S DCB	16.88	17.40	310762	388290	14.1	13.3m	
							09-25-01	
	Target Compounds:							
12)	L6 Aroclor-1254	10.46	10.87	1349852	1264967	742.0	389.0	#
13)	L6 Aroclor-1254 {2}	11.02	11.30	2051598	1072213	425.5	387.1	
14)	L6 Aroclor-1254 {3}	11.88	12.29	1254296	2046245	402.6	396.6	
15)	L6 Aroclor-1254 {4}	12.84	13.09	988262	996303	403.3	371.9	
16)	L6 Aroclor-1254 {5}	13.41	13.79	1321037	1807439	392.5	373.0	
	Sum Aroclor-1254			6965045	7187167	2366.0	1917.5	
	Average Aroclor-1254					473.195	383.507	

(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\7\DATA\09_24_01\7_092418.D
Date Acquired: 24 Sep 2001 21:21
Inst: HP_07 Operator ID: SA
Name: AR1254L37I
Misc: 5-4-7
Method: F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 7:41 2001 Quant Results File: XPCBI24.RES



09-25-01

DCB #2 17.40min area: 388290 m

Integration Time Range: 17.32 - 17.61

OK 9-27-01

F:\HPCHEM\HP\7\DATA\09_24_01\7_092418.D
Report generated: Tue Sep 25 08:12:49 2001

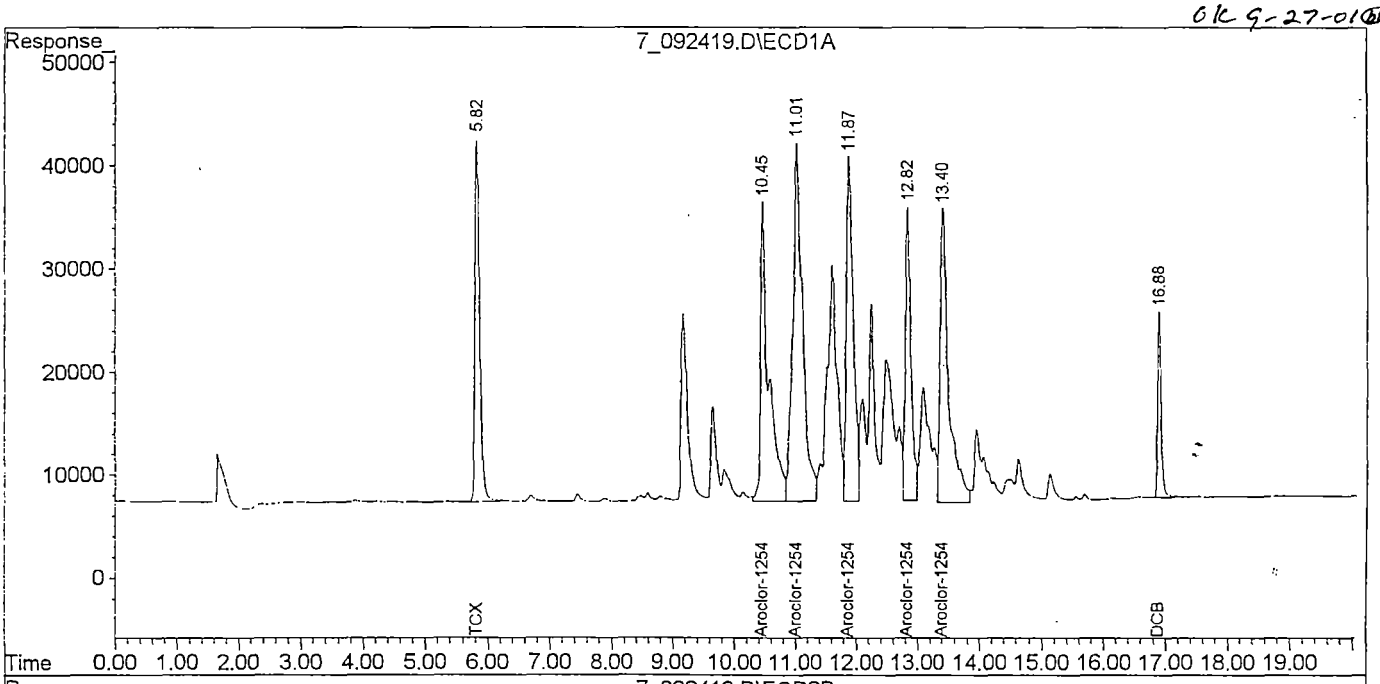
Chromatographic Report

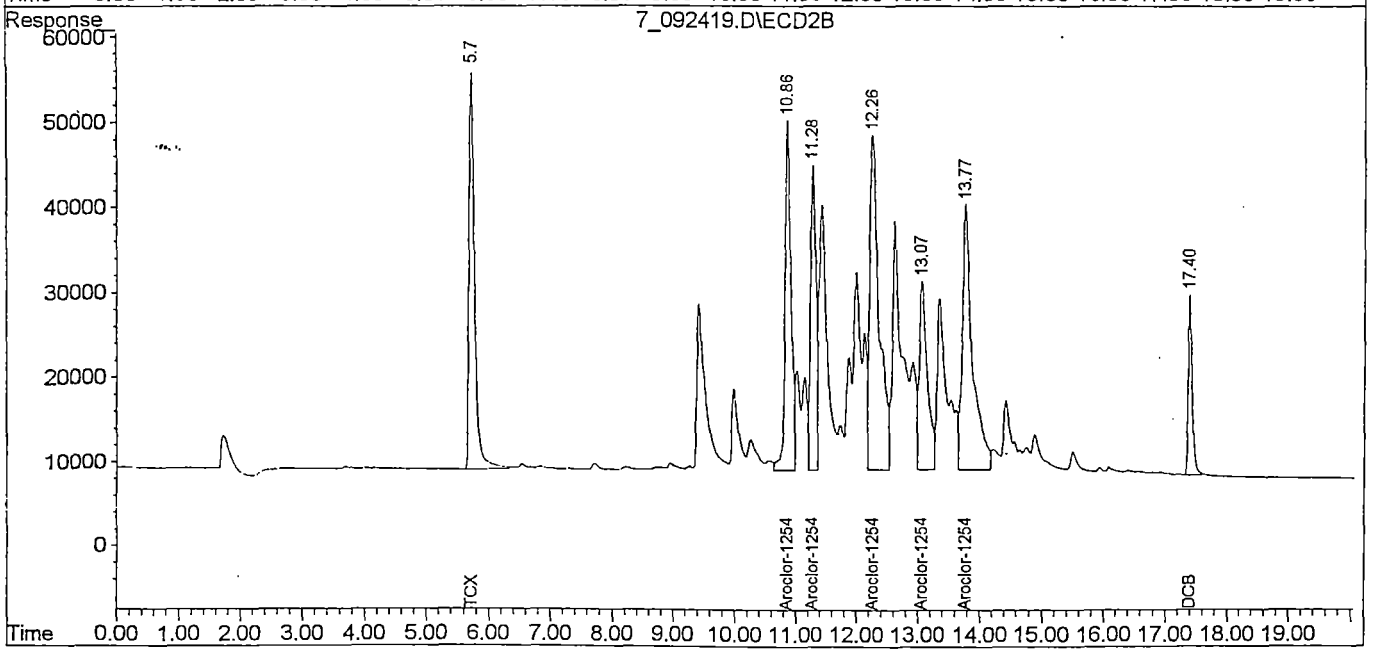
Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092419.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092419.D\ECD2B.CH
Acq On : 24 Sep 2001 21:45 Operator: SA
Sample : AR1254L47I Inst : HP_07
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:50 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-27-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092419.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092419.D\ECD2B.CH
Acq On : 24 Sep 2001 21:45 Operator: SA
Sample : AR1254L47I Inst : HP_07
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:50 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

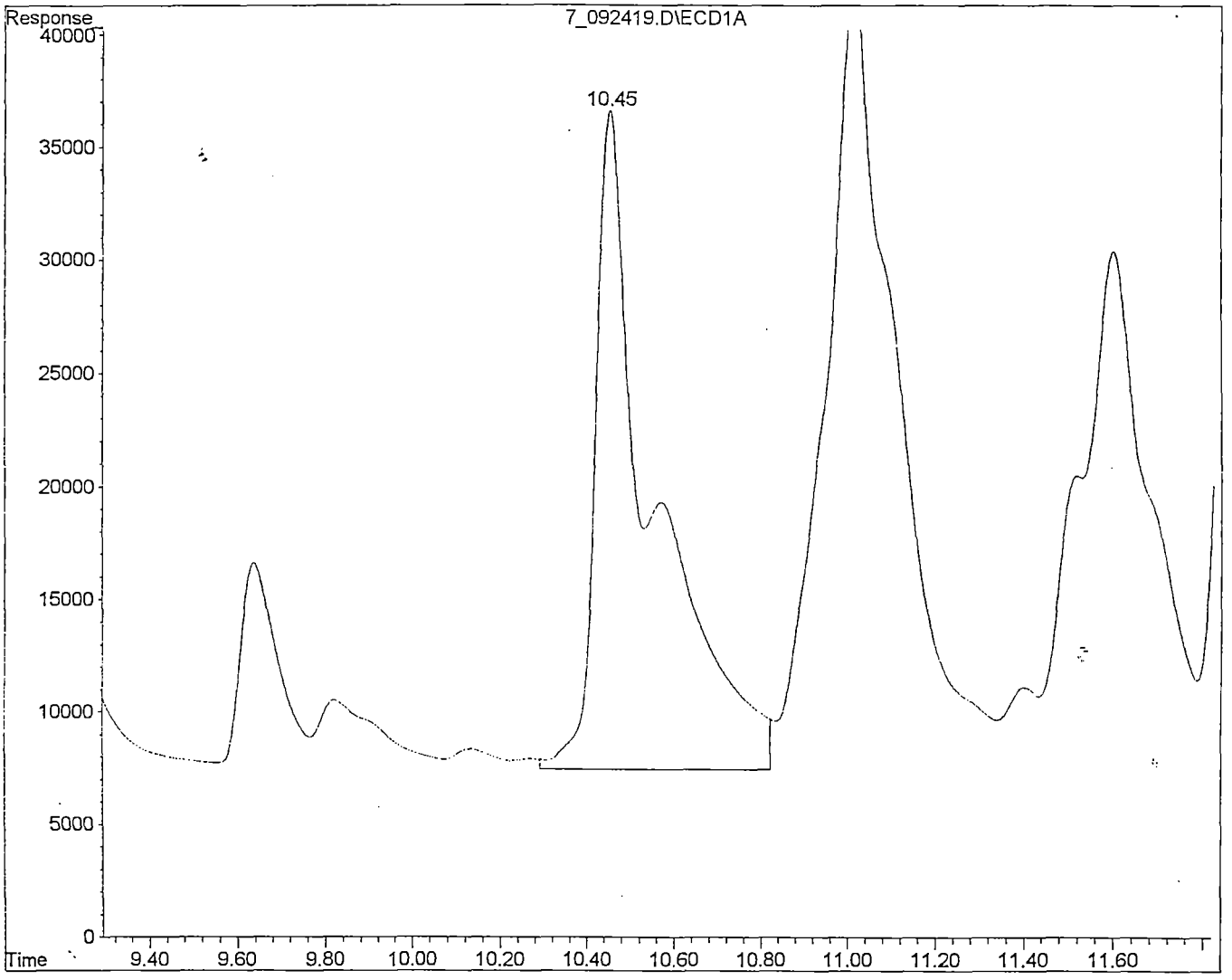
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.82	5.72	1895219	2913815	43.7	48.5	
22)	S DCB	16.88	17.40	722252	901572	32.7	30.9m	
	Target Compounds:							
12)	L6 Aroclor-1254	10.45	10.87	2669647	2725440	1467.5m	838.2	#
13)	L6 Aroclor-1254 {2}	11.01	11.28	3931089	2292818	815.3	827.7	
14)	L6 Aroclor-1254 {3}	11.87	12.26	2553653	4347539	819.7	842.7	
15)	L6 Aroclor-1254 {4}	12.82	13.08	1879841	1992185	767.2	743.6	
16)	L6 Aroclor-1254 {5}	13.40	13.77	2662594	3547747	791.2m	732.1	
	Sum Aroclor-1254			13696824	14905728	4660.8	3984.2	
	Average Aroclor-1254					932.167	796.839	

47.25M

(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\7\DATA\09_24_01\7_092419.D
Date Acquired: 24 Sep 2001 21:45
Inst: HP_07 Operator ID: SA
Name: AR1254L47I
Misc: 5-3-7
Method: F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 7:50 2001 Quant Results File: XPCBI24.RES



09-25-01

Aroclor-1254 10.45min area: 2669647 m

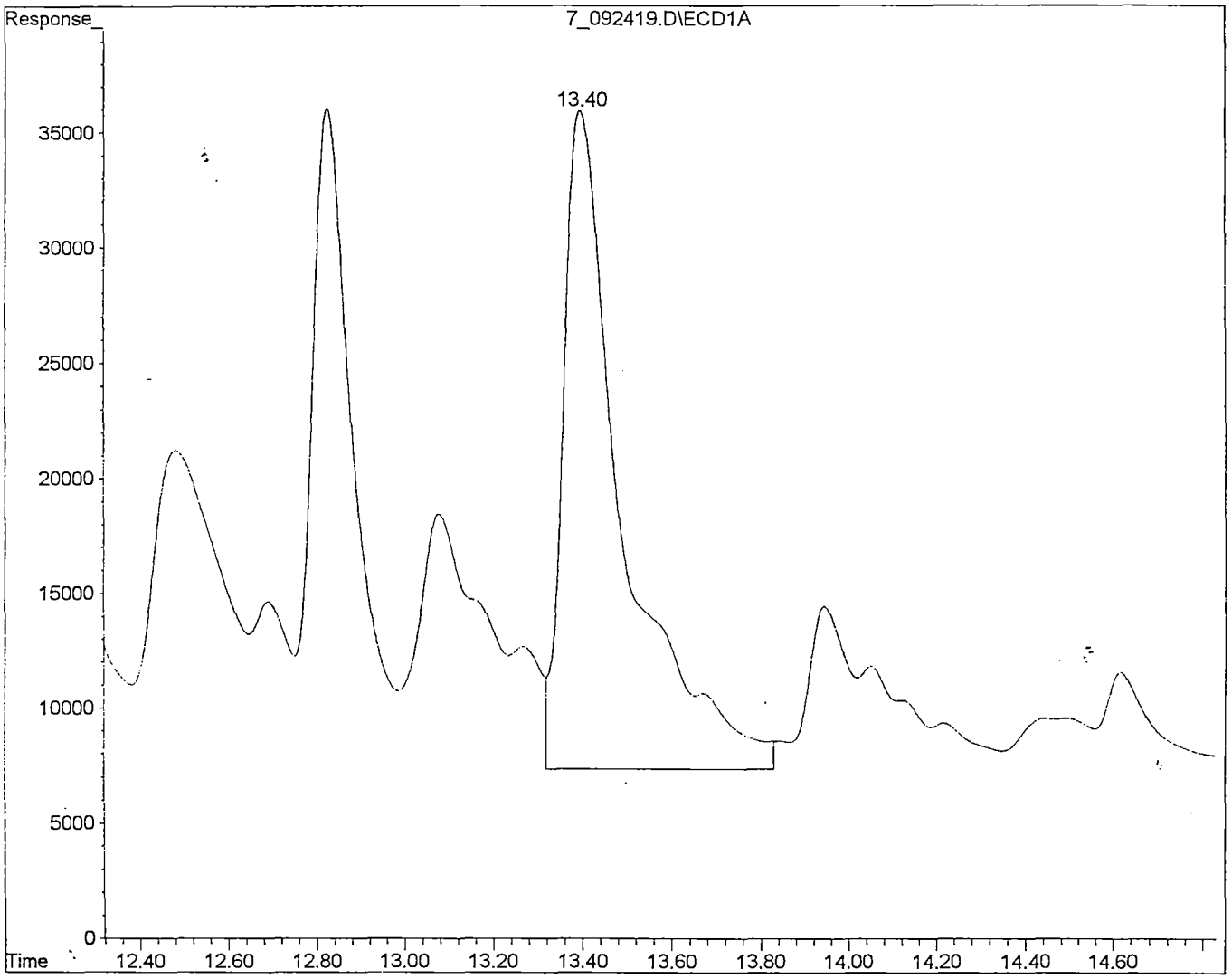
Integration Time Range: 10.29 - 10.82

OK 9-27-01

F:\HPCHEM\HP\7\DATA\09_24_01\7_092419.D
Report generated: Tue Sep 25 08:12:50 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_24_01\7_092419.D
Date Acquired: 24 Sep 2001 21:45
Inst: HP_07 Operator ID: SA
Name: AR1254L47I
Misc: 5-3-7
Method: F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 7:50 2001 Quant Results File: XPCBI24.RES



CAS 9-25-01

Aroclor-1254 {5} 13.40min area: 2662594 m

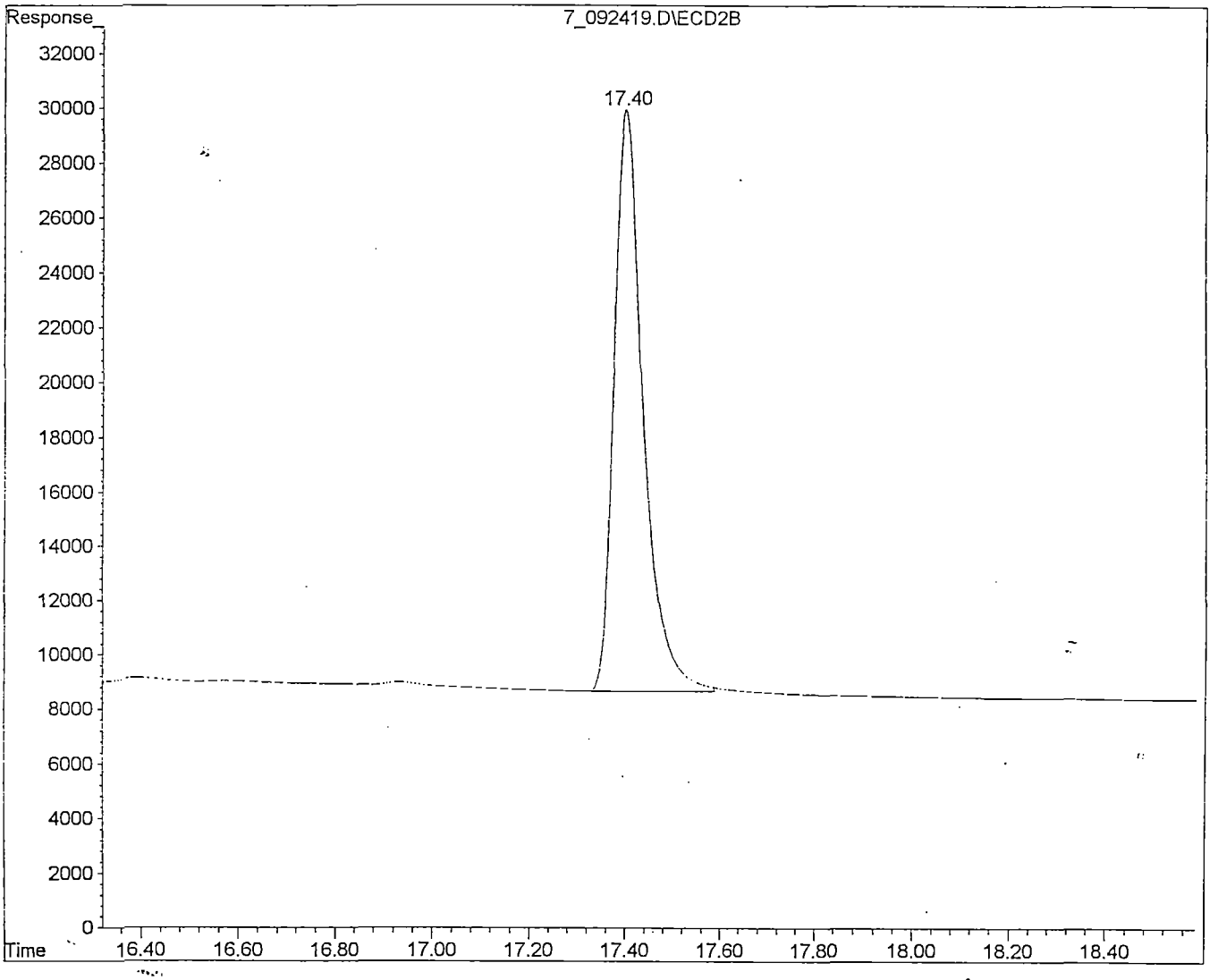
Integration Time Range: 13.32 - 13.83

OK 9-27-01

F:\HPCHEM\HP\7\DATA\09_24_01\7_092419.D
Report generated: Tue Sep 25 08:12:51 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_24_01\7_092419.D
Date Acquired: 24 Sep 2001 21:45
Inst: HP_07 Operator ID: SA
Name: AR1254L47I
Misc: 5-3-7
Method: F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 7:50 2001 Quant Results File: XPCBI24.RES



CA 9-25-01

DCB #2 17.40min area: 901572 m

Integration Time Range: 17.32 - 17.59

OK 9-27-01 DR

F:\HPCHEM\HP\7\DATA\09_24_01\7_092419.D
Report generated: Tue Sep 25 08:12:52 2001

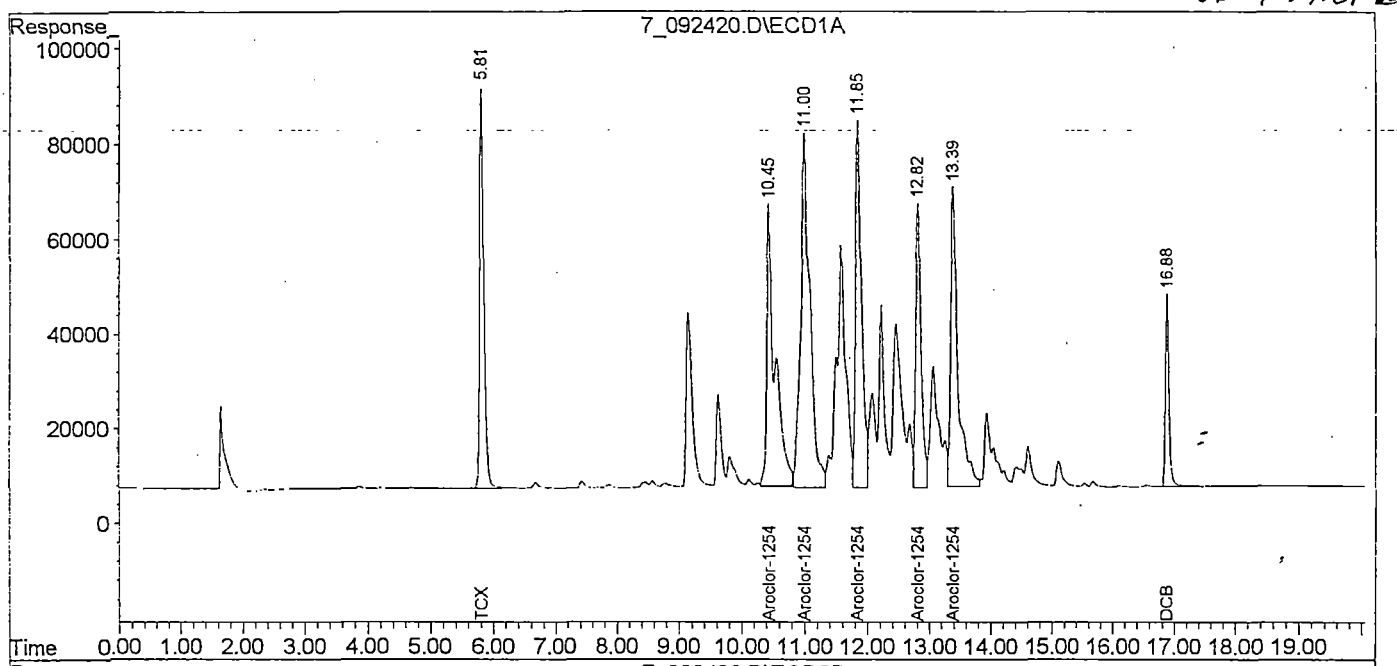
Chromatographic Report

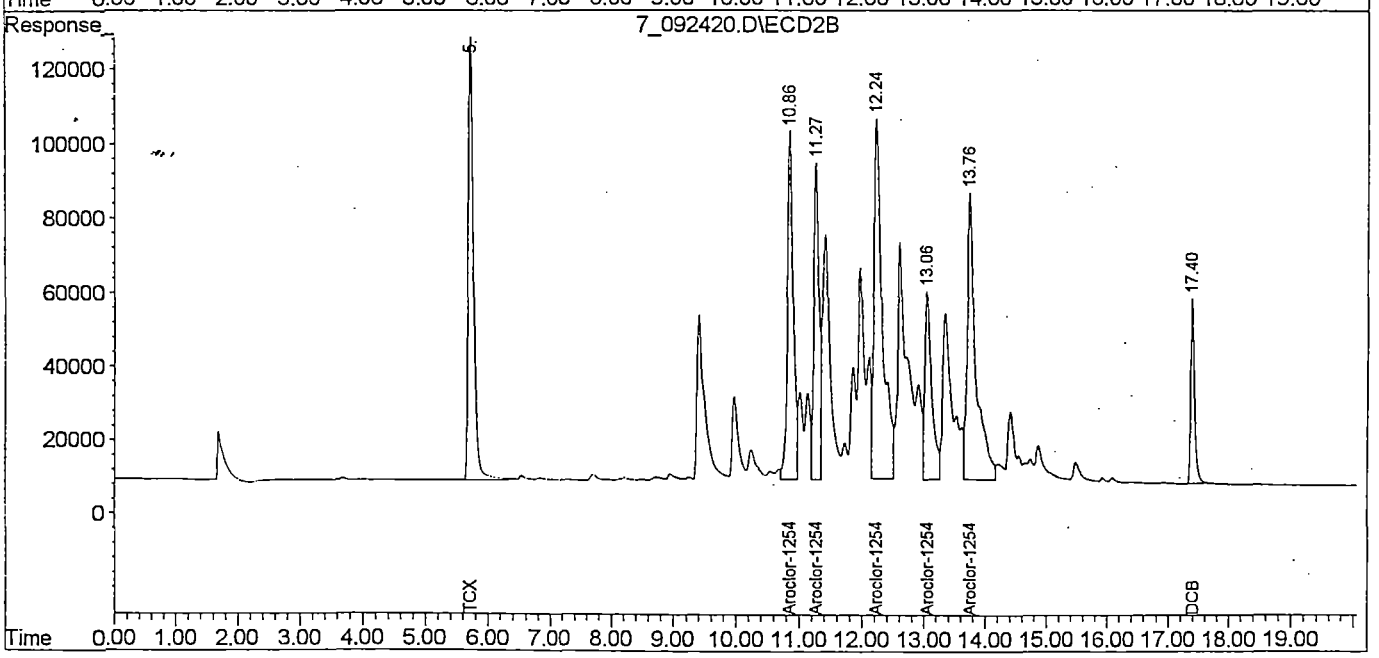
Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092420.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092420.D\ECD2B.CH
Acq On : 24 Sep 2001 22:09 Operator: SA
Sample : AR1254L57I ✓ Inst : HP_07
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:51 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-27-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092420.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092420.D\ECD2B.CH
Acq On : 24 Sep 2001 22:09 Operator: SA
Sample : AR1254L57I Inst : HP_07
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:51 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

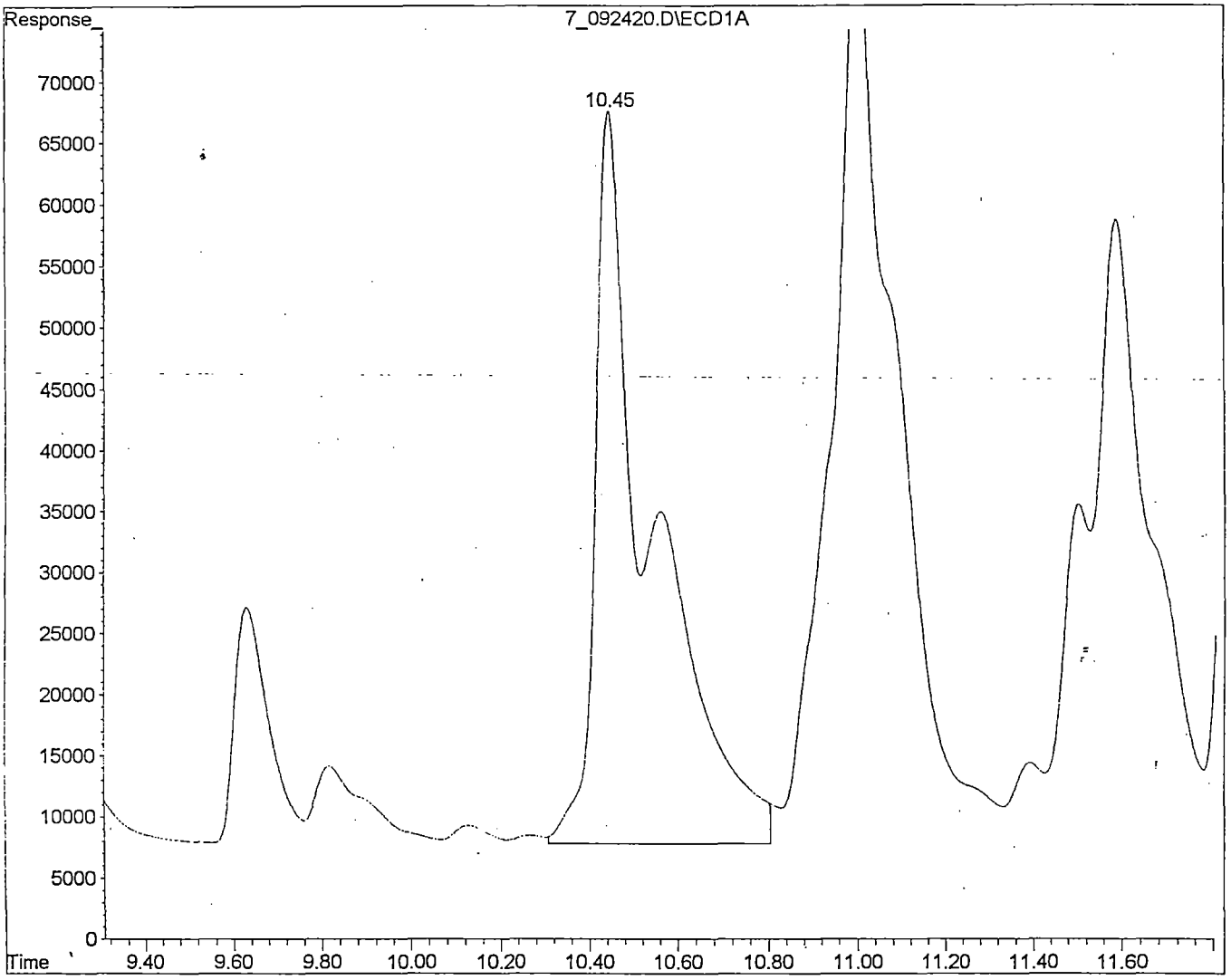
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.81	5.72	4076351	6897400	93.9 E	114.8 E
22)	S DCB	16.88	17.40	1679809	2164792	76.0 E	74.1mE
	Target Compounds:						
12)	L6 Aroclor-1254	10.44	10.86	5282373	5835774	2903.6mE	1794.7 E#
13)	L6 Aroclor-1254 {2}	11.00	11.27	7652082	4960645	1587.0 E	1790.9
14)	L6 Aroclor-1254 {3}	11.86	12.24f	5237132	9495137	1681.1 E	1840.4m
15)	L6 Aroclor-1254 {4}	12.82	13.06	3675909	4118132	1500.2	1537.1 E
16)	L6 Aroclor-1254 {5}	13.39	13.76	5337202	7770197	1585.9mE	1603.4
	Sum Aroclor-1254			27184698	32179884	9257.9	8566.4
	Average Aroclor-1254					1851.572	1713.272

09-25-01

(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\7\DATA\09_24_01\7_092420.D
Date Acquired: 24 Sep 2001 22:09
Inst: HP_07 Operator ID: SA
Name: ARI254L57I
Misc: 5-2-7
Method: F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 7:51 2001 Quant Results File: XPCBI24.RES



09-25-01

Aroclor-1254 10.45min area: 5282373 m

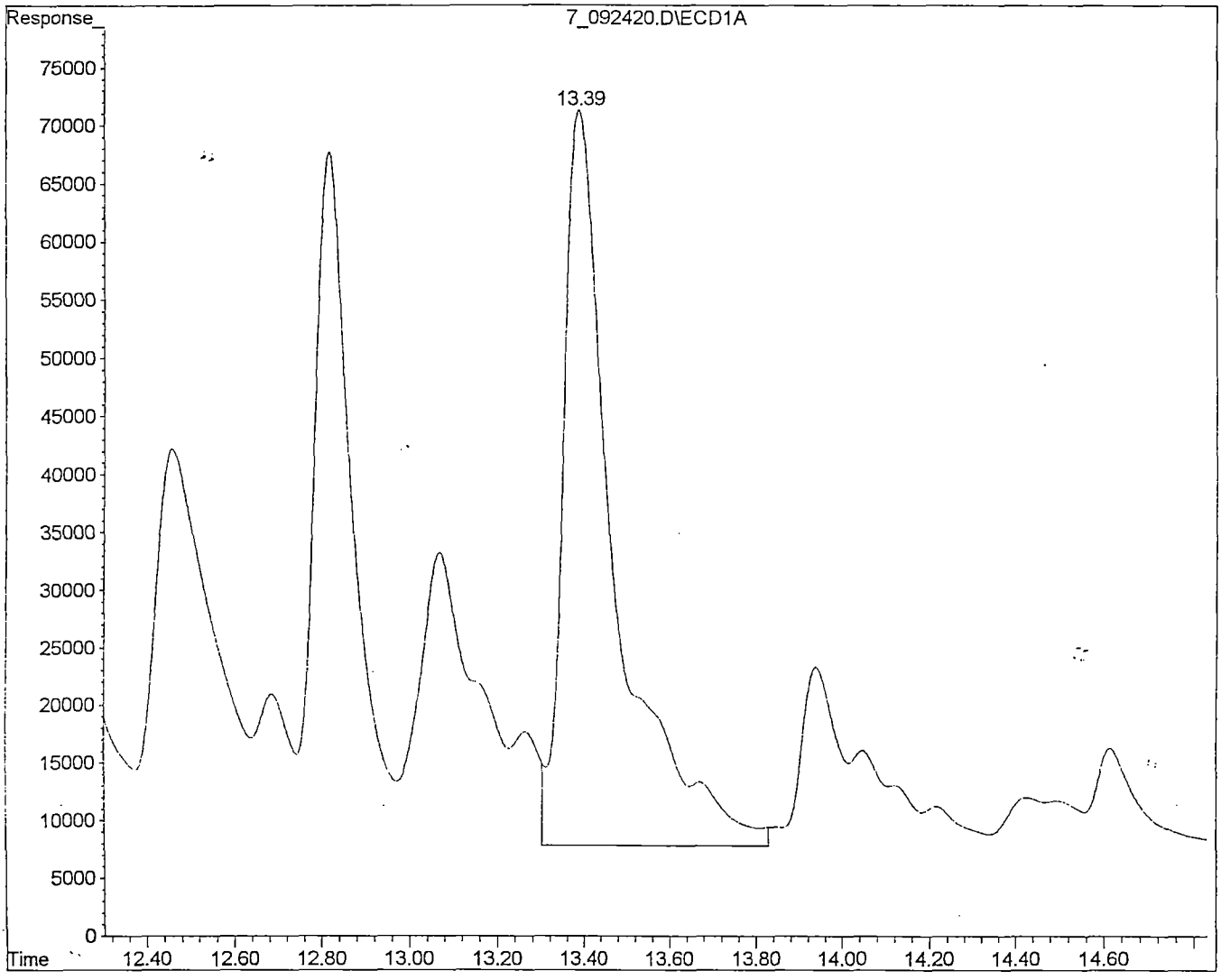
Integration Time Range: 10.31 - 10.80

OK 9-27-01

F:\HPCHEM\HP\7\DATA\09_24_01\7_092420.D
Report generated: Tue Sep 25 08:12:54 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_24_01\7_092420.D
Date Acquired: 24 Sep 2001 22:09
Inst: HP_07 Operator ID: SA
Name: AR1254L57I
Misc: 5-2-7
Method: F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 7:51 2001 Quant Results File: XPCBI24.RES



09-25-01

Aroclor-1254 {5} 13.39min area: 5337202 m

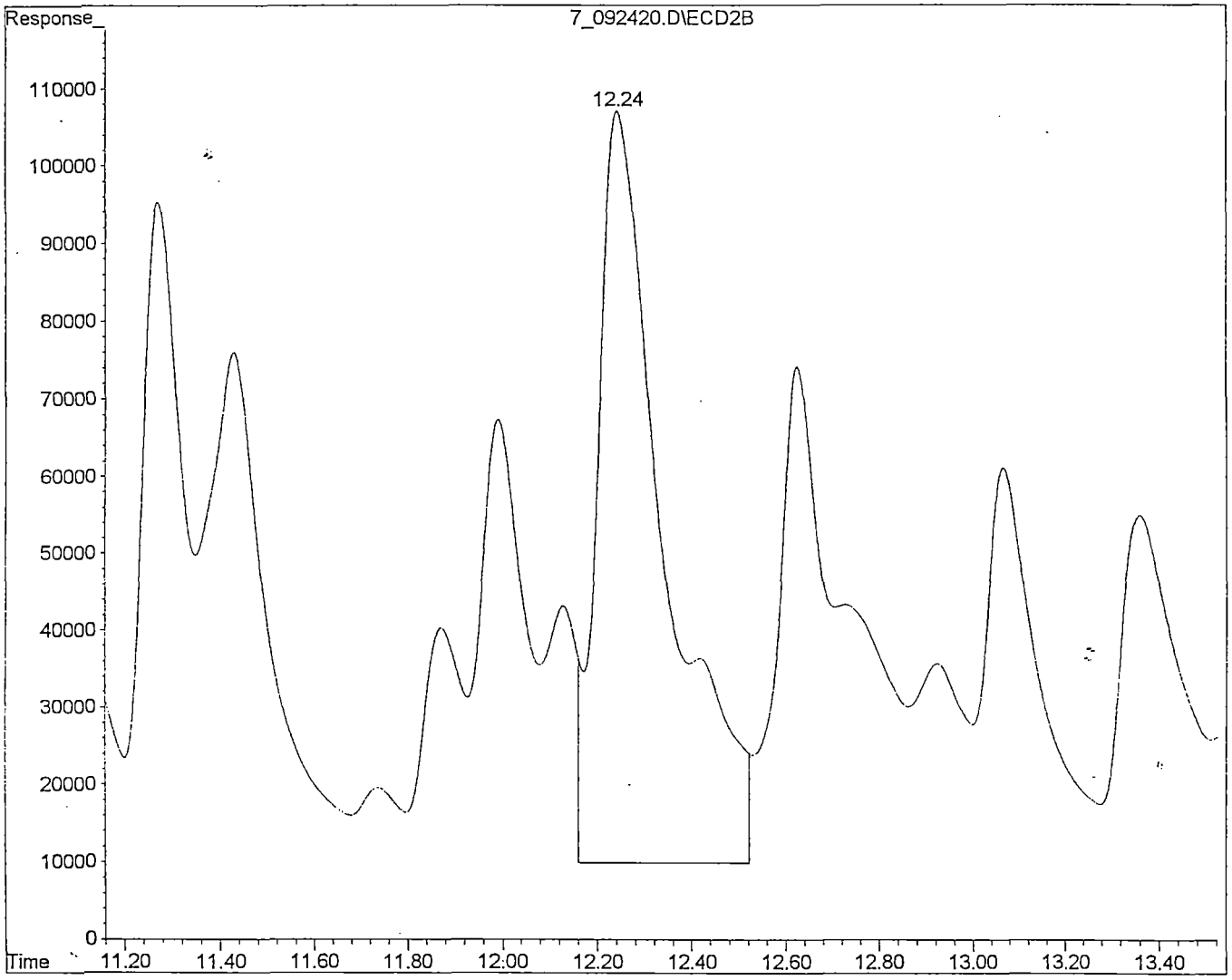
Integration Time Range: 13.30 - 13.83

OK 9-27-01

F:\HPCHEM\HP\7\DATA\09_24_01\7_092420.D
Report generated: Tue Sep 25 08:12:54 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_24_01\7_092420.D
Date Acquired: 24 Sep 2001 22:09
Inst: HP_07 Operator ID: SA
Name: AR1254L57I
Misc: 5-2-7
Method: F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 7:51 2001 Quant Results File: XPCBI24.RES



Aroclor-1254 {3} #2 12.24min area: 9495137 m

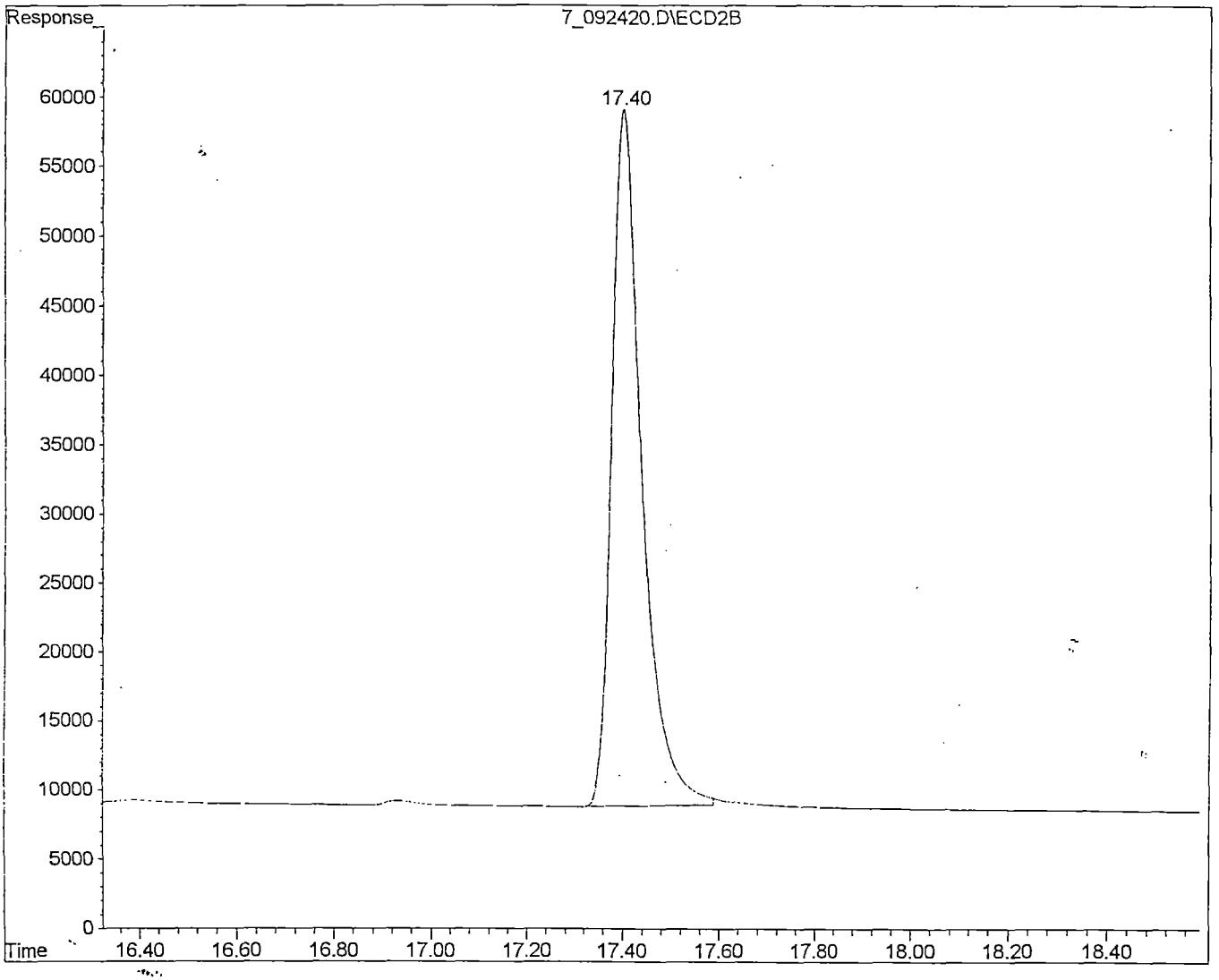
Integration Time Range: 12.16 - 12.52

ok 9-27-01

F:\HPCHEM\HP\7\DATA\09_24_01\7_092420.D
Report generated: Tue Sep 25 08:12:55 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_24_01\7_092420.D
Date Acquired: 24 Sep 2001 22:09
Inst: HP_07 Operator ID: SA
Name: AR1254L57I
Misc: 5-2-7
Method: F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 7:51 2001 Quant Results File: XPCBI24.RES



DCB #2 17.40min area: 2164792 m

Integration Time Range: 17.32 - 17.59

F:\HPCHEM\HP\7\DATA\09_24_01\7_092420.D
Report generated: Tue Sep 25 08:12:56 2001

Response Factor Report HP_07

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

ok
9-27-01

Calibration Files
L1 =7_092421.D L2 =7_092422.D L3 =7_092423.D
L4 =7_092424.D L5 =7_092425.D

	Compound	L1	L2	L3	L4	L5	Avg		%RSD
1)	TCX	40.2	38.5	38.2	38.7	38.6	38.8	E3	1.98
2)	Aroclor-1016	1.1	1.0	0.9	0.9	0.8	0.9	E3	11.20
3)	Aroclor-1016 {2}	1.6	1.5	1.4	1.3	1.2	1.4	E3	10.33
4)	Aroclor-1016 {3}	2.0	1.9	2.1	2.3	2.5	2.1	E3	11.12
5)	Aroclor-1016 {4}	1.1	1.0	1.0	0.9	0.9	1.0	E3	6.99
6)	Aroclor-1016 {5}	1.9	1.7	1.5	1.3	1.1	1.5	E3	20.92
17)	Aroclor-1260	2.9	2.6	2.4	2.2	2.1	2.5	E3	12.45
18)	Aroclor-1260 {2}	4.4	4.0	3.8	3.6	3.5	3.9	E3	8.88
19)	Aroclor-1260 {3}	2.9	2.8	2.7	2.7	2.9	2.8	E3	3.48
20)	Aroclor-1260 {4}	1.6	1.4	1.3	1.2	1.2	1.3	E3	10.09
21)	Aroclor-1260 {5}	3.2	3.0	2.9	2.8	2.9	2.9	E3	5.41
22)	DCB	20.0	16.3	15.7	15.0	13.9	16.2	E3	14.39

Signal #2 Calibration Files
L1 =7_092421.D L2 =7_092422.D L3 =7_092423.D
L4 =7_092424.D L5 =7_092425.D

	Compound	L1	L2	L3	L4	L5	Avg		%RSD
24)	TCX #2	47.1	45.9	47.6	52.4	58.2	50.2	E3	10.17
25)	Aroclor-1016 #2	1.2	1.1	1.1	1.0	1.0	1.1	E3	7.20
26)	Aroclor-1016 {2} #2	2.0	1.8	1.7	1.7	1.7	1.8	E3	7.76
27)	Aroclor-1016 {3} #2	1.2	1.1	1.1	1.1	1.1	1.1	E3	5.55
28)	Aroclor-1016 {4} #2	3.2	2.9	2.5	2.3	2.1	2.6	E3	17.79
29)	Aroclor-1016 {5} #2	2.5	2.2	2.1	2.1	2.2	2.2	E3	6.23
40)	Aroclor-1260 #2	4.2	3.7	3.5	3.3	3.4	3.6	E3	8.91
41)	Aroclor-1260 {2} #2	3.5	3.2	3.1	3.0	3.3	3.2	E3	6.30
42)	Aroclor-1260 {3} #2	3.4	3.1	3.0	2.9	3.1	3.1	E3	5.80
43)	Aroclor-1260 {4} #2	2.0	1.8	1.8	1.8	1.9	1.8	E3	5.07
44)	Aroclor-1260 {5} #2	3.7	3.3	3.2	3.2	3.6	3.4	E3	6.97
45)	DCB #2	25.8	20.6	19.6	19.1	18.1	20.6	E3	14.54

(#) = Out of Range

XPCBI24.M Tue Sep 25 08:48:25 2001

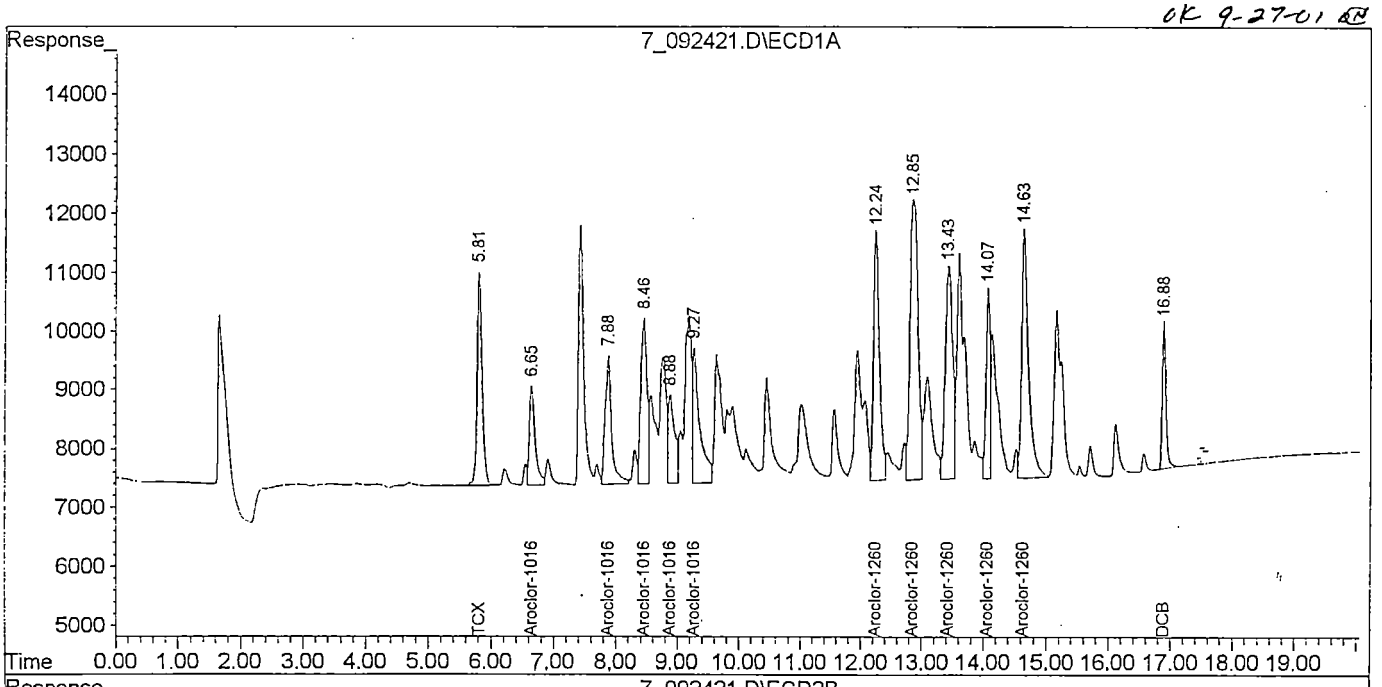
Chromatographic Report

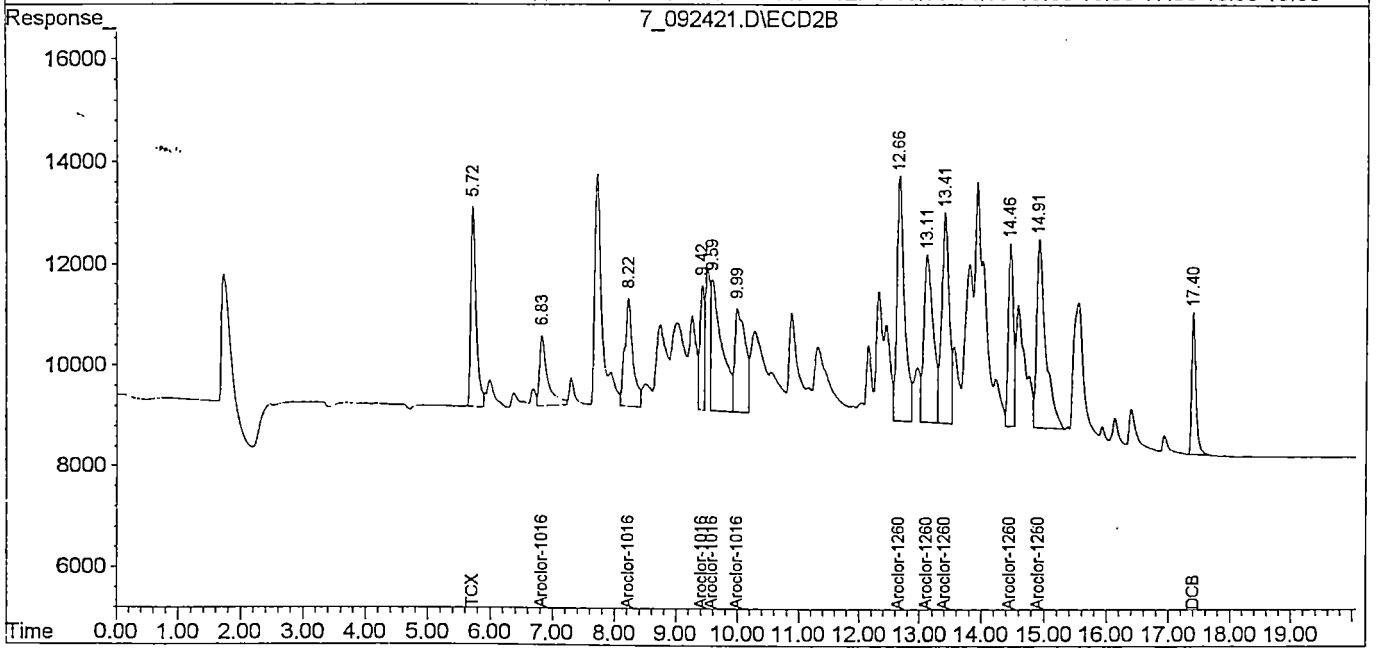
Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092421.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092421.D\ECD2B.CH
Acq On : 24 Sep 2001 22:33 Operator: SA
Sample : AR1660L17I Inst : HP_07
Misc : 5-212-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:59 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-27-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092421.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092421.D\ECD2B.CH
Acq On : 24 Sep 2001 22:33 Operator: SA
Sample : AR1660L17I Inst : HP_07
Misc : 5-212-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:59 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

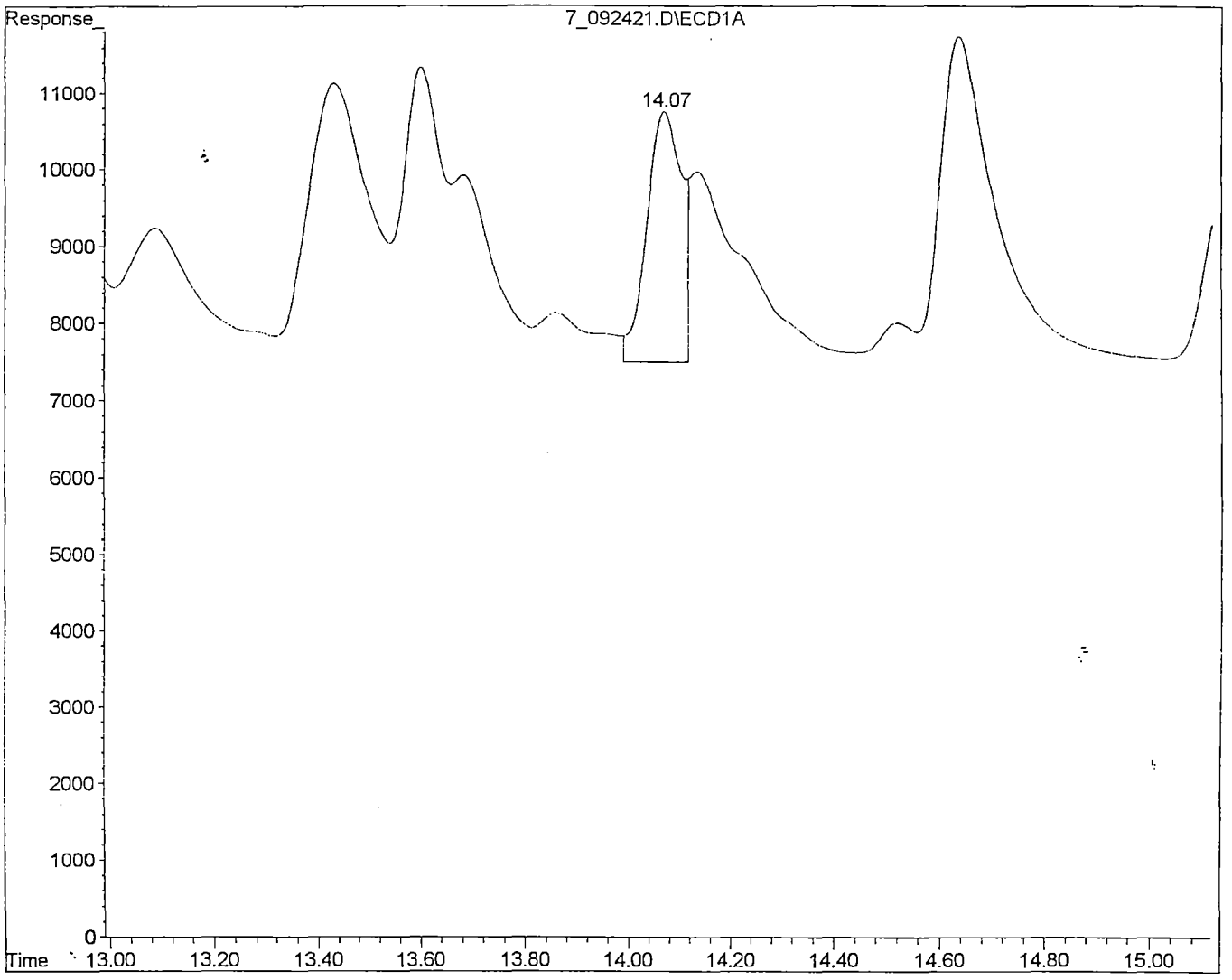
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.81	5.72	200865	235484	4.627	3.919	
22)	S DCB	16.89	17.40	100183	128767	4.533	4.410m	
	Target Compounds:							
2)	L1 Aroclor-1016	6.65	6.83	107718	123210	102.0	86.6	
3)	L1 Aroclor-1016 {2}	7.88	8.22	160032	200001	103.7	93.2	
4)	L1 Aroclor-1016 {3}	8.46	9.42	198796	121779	52.0	84.6	#
5)	L1 Aroclor-1016 {4}	8.88	9.58	107025	323604	104.0	132.5	#
6)	L1 Aroclor-1016 {5}	9.27	10.00	186114	247529	144.2	94.4	#
	Sum Aroclor-1016			759684	1016122	505.9	491.2	
	Average Aroclor-1016					101.184	98.247	
17)	L7 Aroclor-1260	12.24	12.66	290214	415203	109.7	98.1	
18)	L7 Aroclor-1260 {2}	12.85f	13.11f	436504	352013	99.1	83.7	
19)	L7 Aroclor-1260 {3}	13.43f	13.41	294848	339060	83.8	90.1	
20)	L7 Aroclor-1260 {4}	14.07	14.46	155786	196515	95.8m	77.6	
21)	L7 Aroclor-1260 {5}	14.64	14.91f	320124	367372	87.3	82.9	
	Sum Aroclor-1260			1497477	1670164	475.7	432.3	
	Average Aroclor-1260					95.144	86.464	

09-25-01

(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\7\DATA\09_24_01\7_092421.D
Date Acquired: 24 Sep 2001 22:33
Inst: HP_07 Operator ID: SA
Name: AR1660L17I
Misc: 5-212-7
Method: F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 7:59 2001 Quant Results File: XPCBI24.RES



09-25-01

Aroclor-1260 {4} 14.07min area: 155786 m

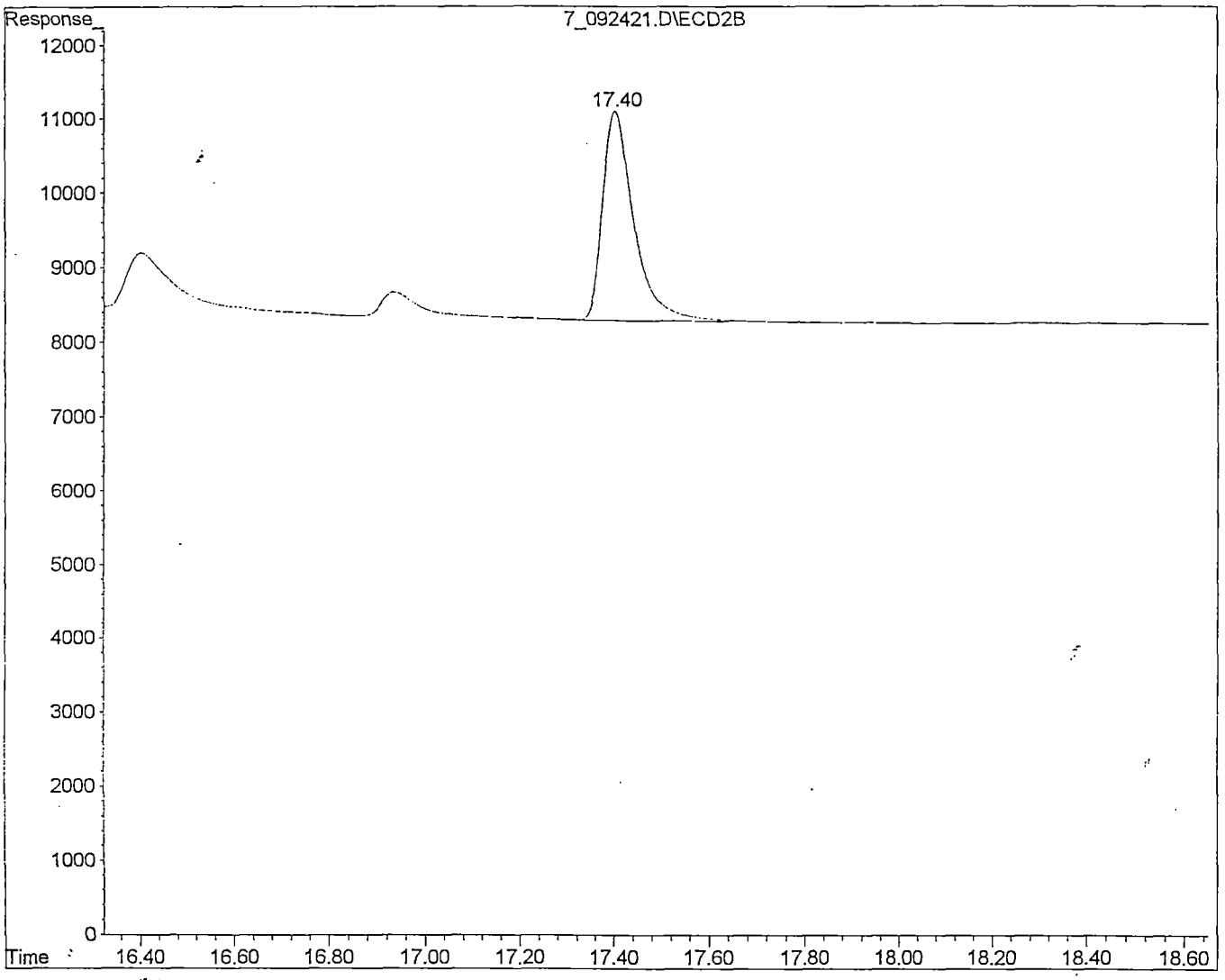
Integration Time Range: 13.99 - 14.12

OK 9-27-01

F:\HPCHEM\HP\7\DATA\09_24_01\7_092421.D
Report generated: Tue Sep 25 08:12:58 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_24_01\7_092421.D
Date Acquired: 24 Sep 2001 22:33
Inst: HP_07 Operator ID: SA
Name: AR1660L17I
Misc: 5-212-7
Method: F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 7:59 2001 Quant Results File: XPCBI24.RES



A9-25-1

DCB #2 17.40min area: 128767 m

Integration Time Range: 17.33 - 17.65

OK 9-27-01

F:\HPCHEM\HP\7\DATA\09_24_01\7_092421.D
Report generated: Tue Sep 25 08:12:59 2001

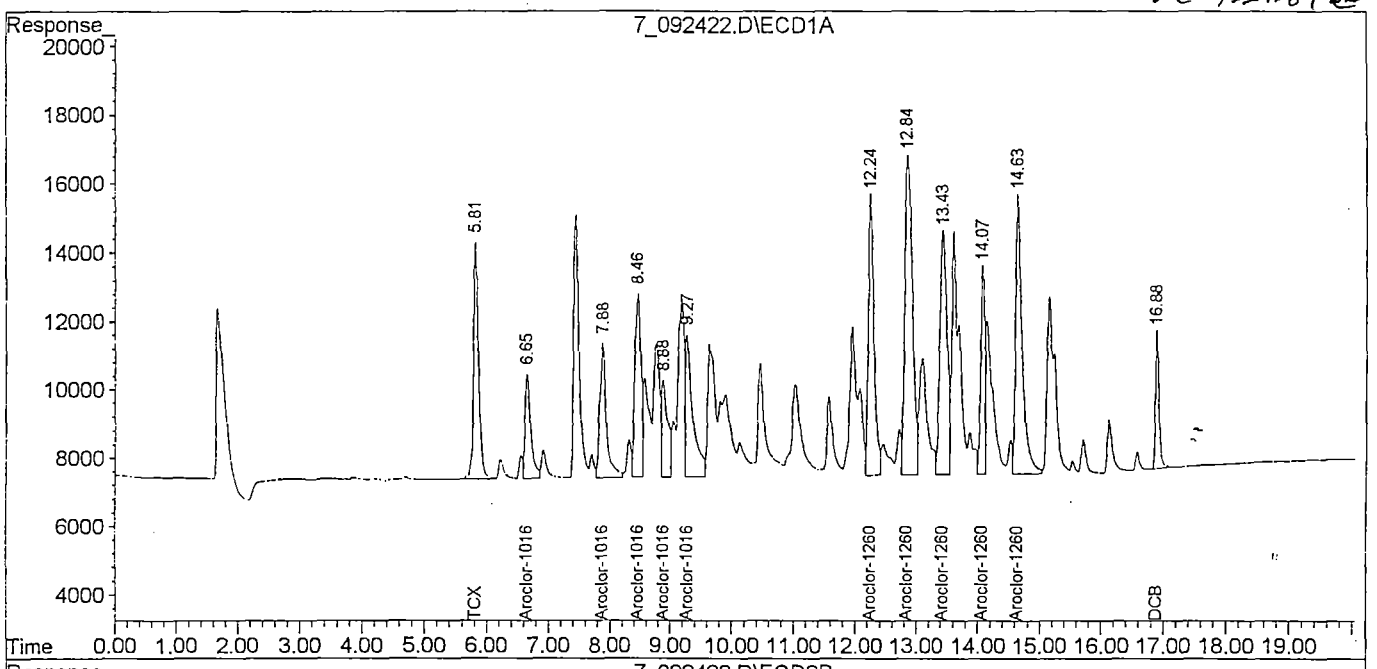
Chromatographic Report

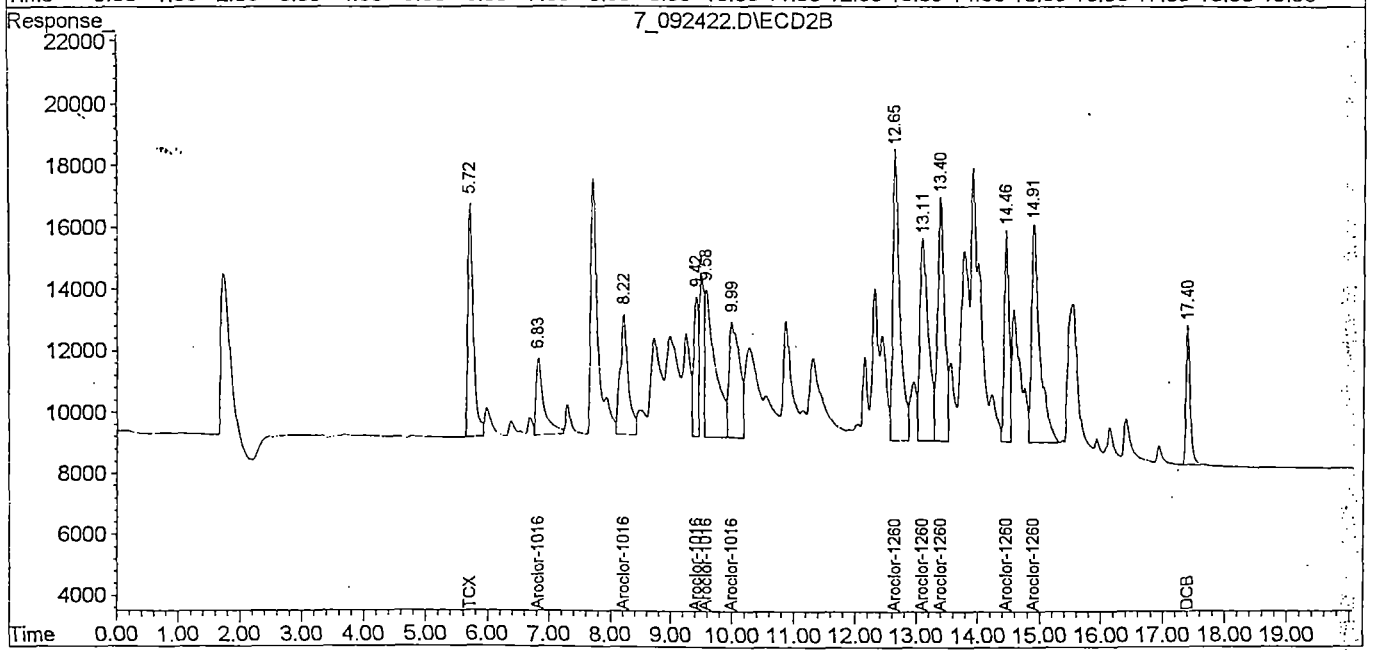
Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092422.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092422.D\ECD2B.CH
Acq On : 24 Sep 2001 22:57 Operator: SA
Sample : AR1660L27I ✓ Inst : HP_07
Misc : 5-211-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:58 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-27-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092422.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092422.D\ECD2B.CH
Acq On : 24 Sep 2001 22:57 Operator: SA
Sample : AR1660L27I Inst : HP_07
Misc : 5-211-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:58 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

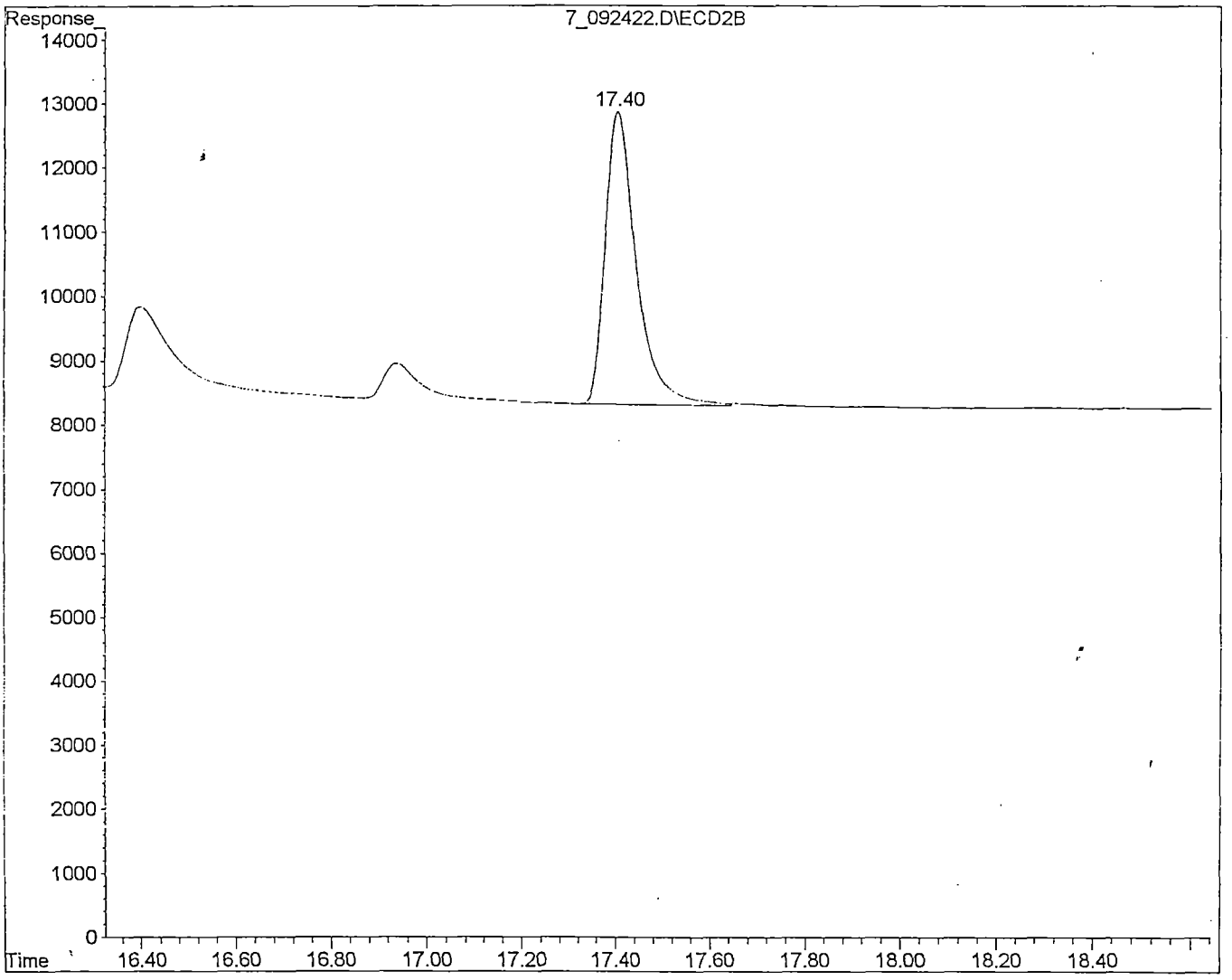
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.81	5.72	385113	458983	8.872	7.638	
22)	S DCB	16.88	17.40	162569	206146	7.356	7.059m	
							09-25-1	
	Target Compounds:							
2)	L1 Aroclor-1016	6.65	6.83	197709	221515	187.2	155.7	
3)	L1 Aroclor-1016 {2}	7.88	8.22	297210	365541	192.5	170.3	
4)	L1 Aroclor-1016 {3}	8.46	9.42	380646	219205	99.6	152.2	#
5)	L1 Aroclor-1016 {4}	8.88	9.58	203470	570630	197.7	233.6	
6)	L1 Aroclor-1016 {5}	9.27	10.00	337530	447242	261.6	170.5	#
	Sum Aroclor-1016			1416564	1824133	938.6	882.4	
	Average Aroclor-1016					187.729	176.482	
17)	L7 Aroclor-1260	12.24	12.65	526896	743953	199.2	175.8	
18)	L7 Aroclor-1260 {2}	12.84	13.11f	804980	633887	182.7	150.7	
19)	L7 Aroclor-1260 {3}	13.43f	13.40	559295	623216	159.0	165.5	
20)	L7 Aroclor-1260 {4}	14.07	14.46	277671	362948	170.8	143.3	
21)	L7 Aroclor-1260 {5}	14.63	14.91f	590721	651619	161.0	147.0	
	Sum Aroclor-1260			2759564	3015624	872.8	782.3	
	Average Aroclor-1260					174.551	156.465	

(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\7\DATA\09_24_01\7_092422.D
Date Acquired: 24 Sep 2001 22:57
Inst: HP_07 Operator ID: SA
Name: AR1660L27I
Misc: 5-211-7
Method: F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 7:58 2001 Quant Results File: XPCBI24.RES



AS 9-25-01

DCB #2 17.40min area: 206146 m

Integration Time Range: 17.32 - 17.64

OK 9-27-01

F:\HPCHEM\HP\7\DATA\09_24_01\7_092422.D
Report generated: Tue Sep 25 08:13:01 2001

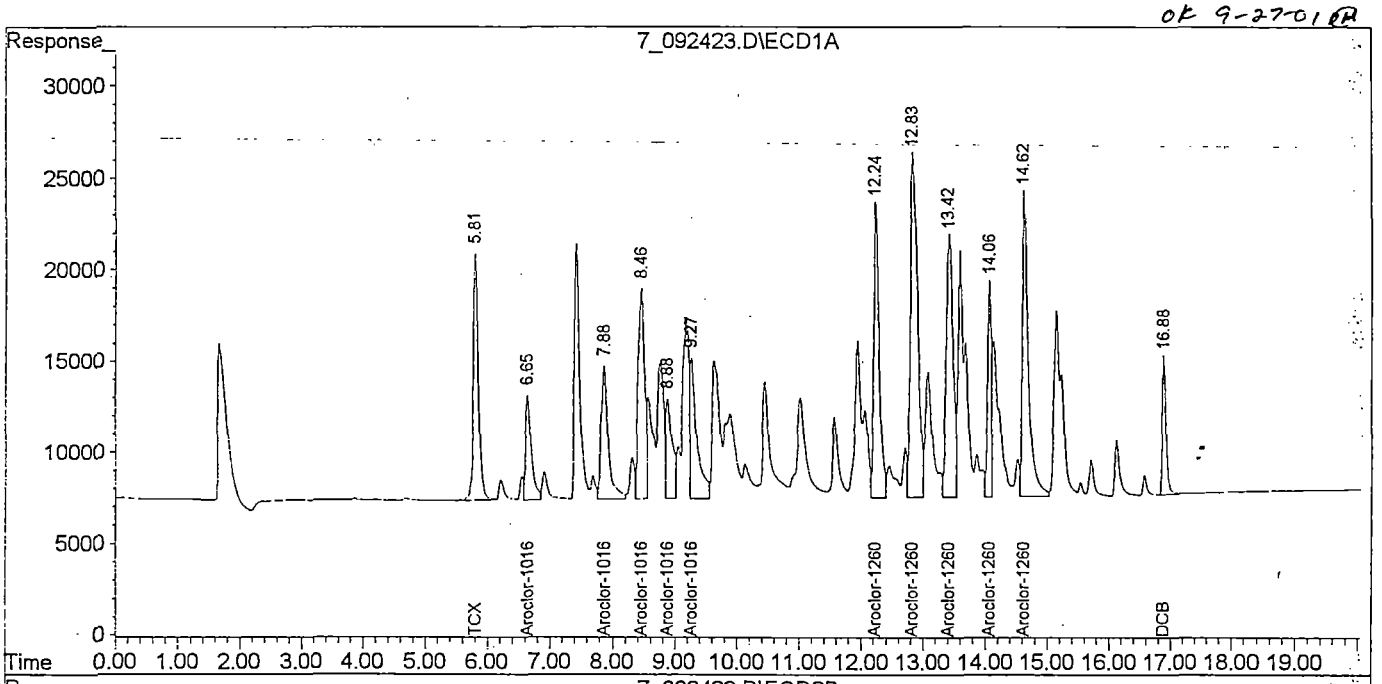
Chromatographic Report

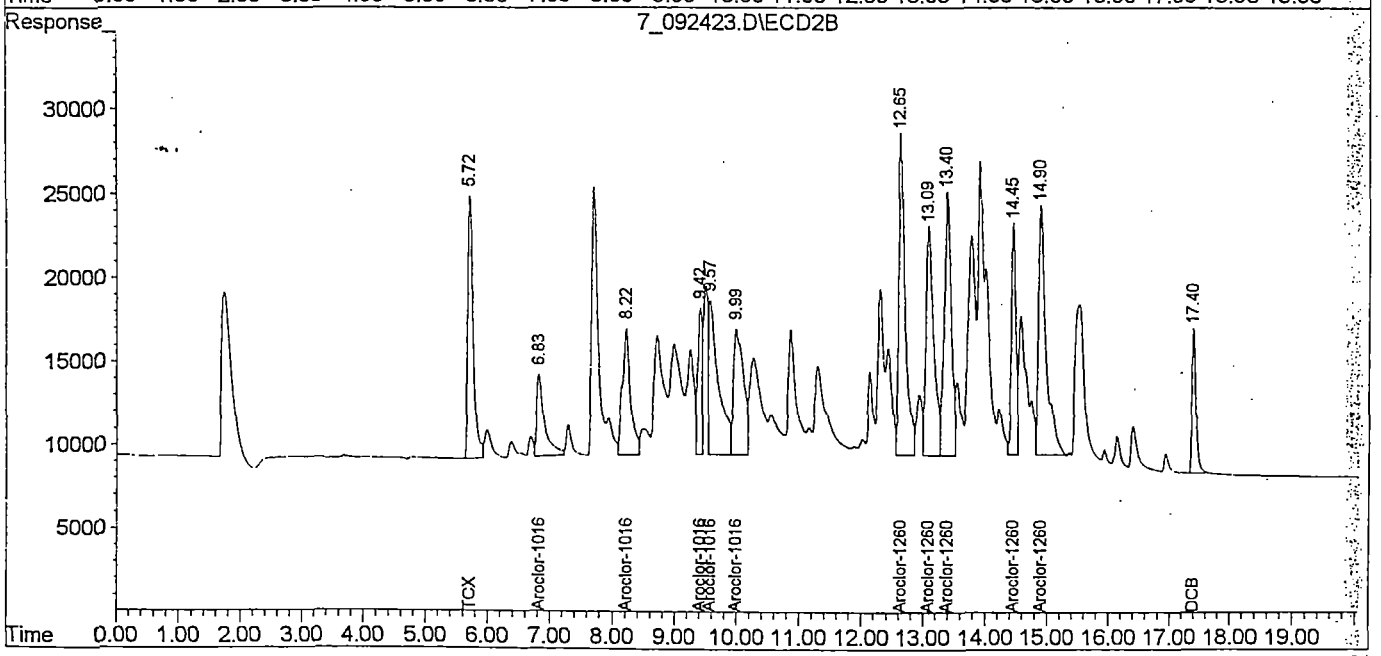
Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092423.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092423.D\ECD2B.CH
Acq On : 24 Sep 2001 23:21 Operator: SA
Sample : AR1660L37M ✓ Inst : HP_07
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:59 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

ok 9-27-01 [illegible]





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092423.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092423.D\ECD2B.CH
Acq On : 24 Sep 2001 23:21 Operator: SA
Sample : AR1660L37M Inst : HP_07
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 7:59 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

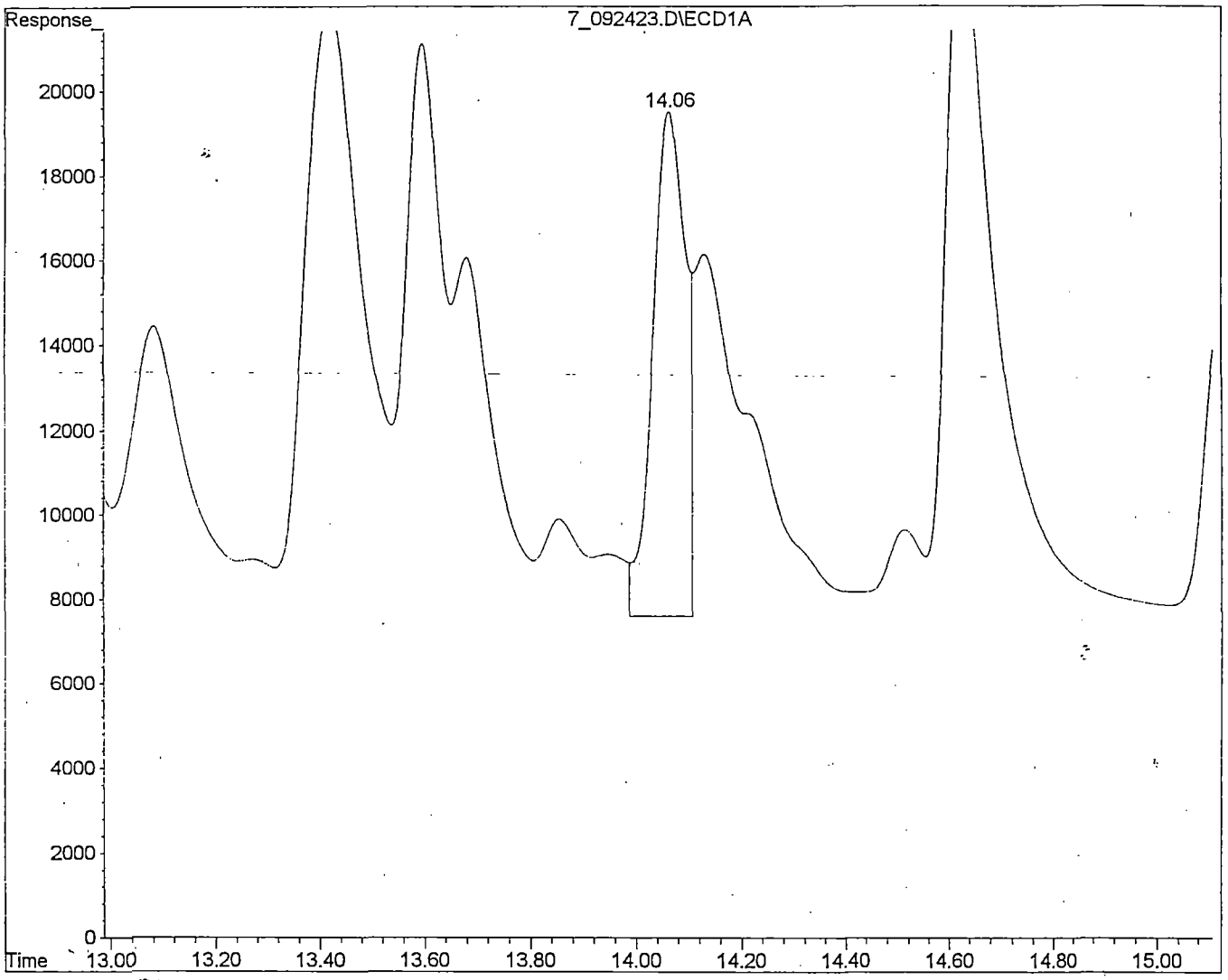
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.81	5.72	764010	951381	17.6	15.8	
22)	S DCB	16.88	17.40	314485	391714	14.2	13.4m	
	Target Compounds:							
2)	L1 Aroclor-1016	6.65	6.83	373117	432487	353.3	304.0	
3)	L1 Aroclor-1016 {2}	7.88	8.22	558929	686187	362.0	319.7	
4)	L1 Aroclor-1016 {3}	8.46	9.42	824006	423774	215.7	294.3	#
5)	L1 Aroclor-1016 {4}	8.88	9.58	388762	1010225	377.7	413.5m	
6)	L1 Aroclor-1016 {5}	9.27	9.99	587289	856780	455.2	326.7	#
	Sum Aroclor-1016			2732102	3409453	1763.9	1658.3	
	Average Aroclor-1016					352.782	331.662	
17)	L7 Aroclor-1260	12.24	12.65	977172	1392456	369.4	329.1	
18)	L7 Aroclor-1260 {2}	12.84	13.10	1527463	1222614	346.8	290.7	
19)	L7 Aroclor-1260 {3}	13.42f	13.40	1094585	1189119	311.1	315.9	
20)	L7 Aroclor-1260 {4}	14.06	14.46	521328	706559	320.7m	278.9	
21)	L7 Aroclor-1260 {5}	14.63	14.90	1152254	1264871	314.1	285.3	
	Sum Aroclor-1260			5272801	5775619	1662.1	1499.8	
	Average Aroclor-1260					332.423	299.968	

cb 9.25-1

(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\7\DATA\09_24_01\7_092423.D
Date Acquired: 24 Sep 2001 23:21
Inst: HP_07 Operator ID: SA
Name: AR1660L37M
Misc: 5-210-7
Method: F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 7:59 2001 Quant Results File: XPCBI24.RES



A9-25-9

Aroclor-1260 {4} 14.06min area: 521328 m

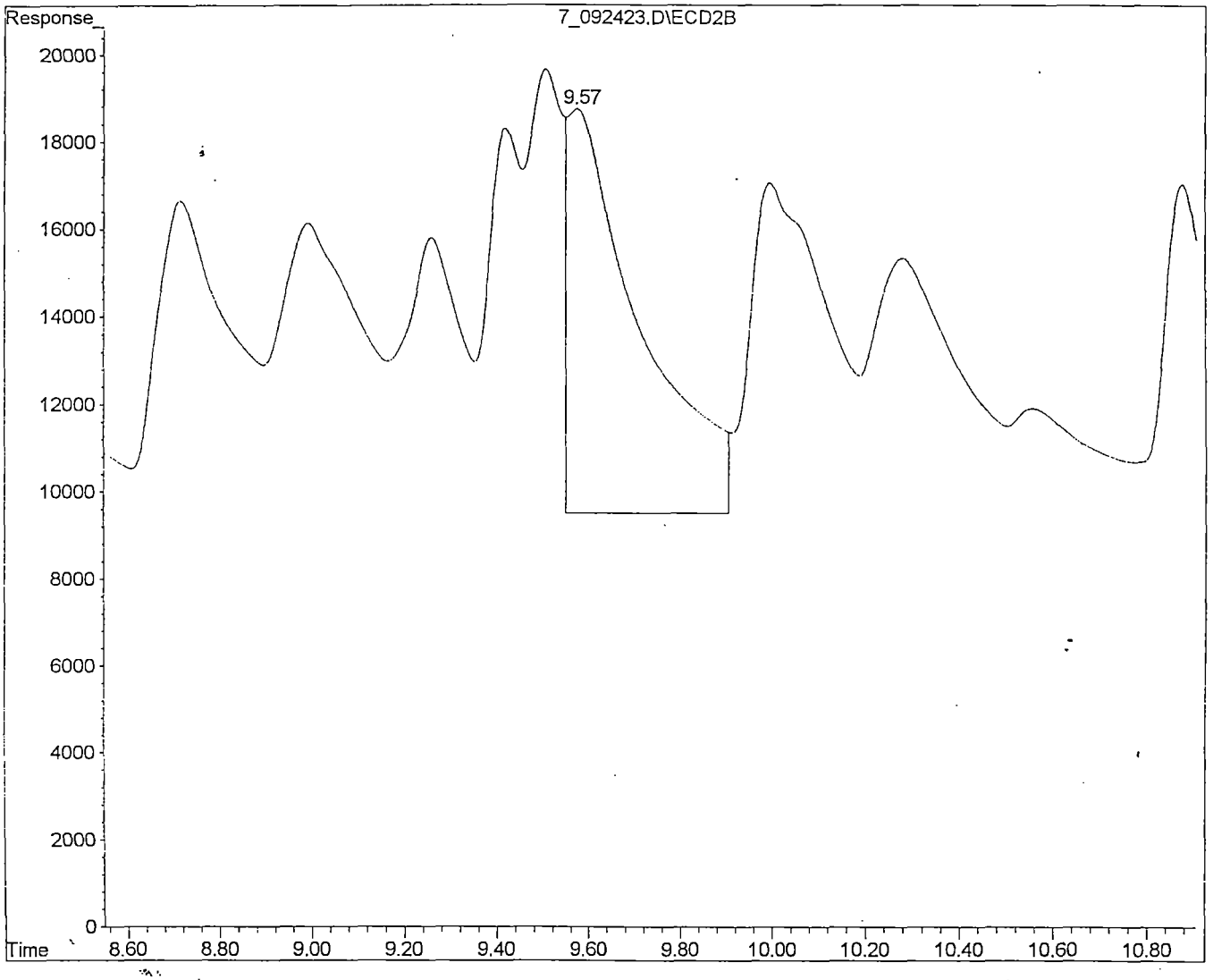
Integration Time Range: 13.99 - 14.11

ok 9-27-01

F:\HPCHEM\HP\7\DATA\09_24_01\7_092423.D
Report generated: Tue Sep 25 08:13:03 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_24_01\7_092423.D
Date Acquired: 24 Sep 2001 23:21
Inst: HP_07 Operator ID: SA
Name: AR1660L37M
Misc: 5-210-7
Method: F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 7:59 2001 Quant Results File: XPCBI24.RES



A9-25-9

Aroclor-1016 {4} #2 9.57min area: 1010225 m

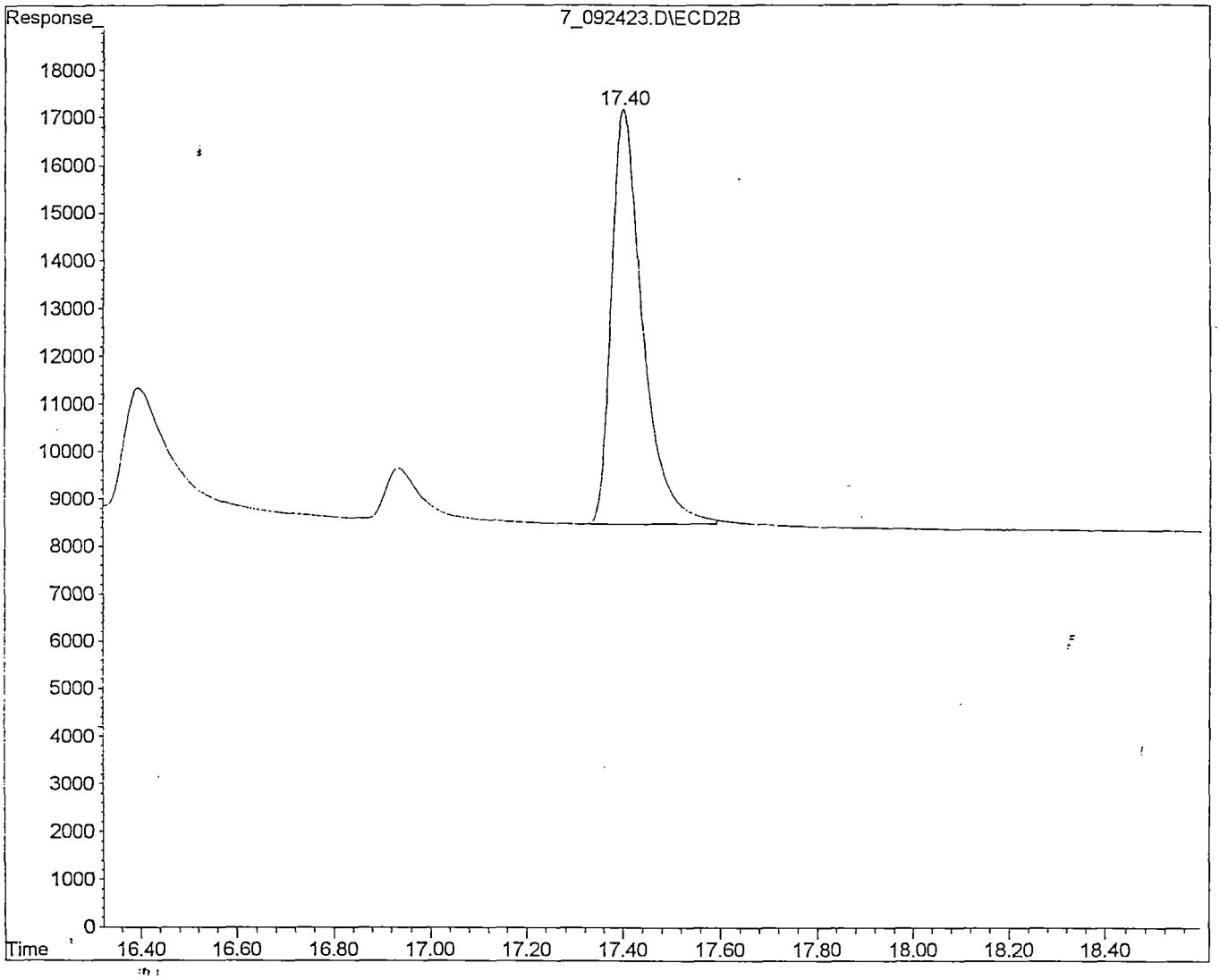
Integration Time Range: 9.55 - 9.90

CK 9-27-01

F:\HPCHEM\HP\7\DATA\09_24_01\7_092423.D
Report generated: Tue Sep 25 08:13:04 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_24_01\7_092423.D
Date Acquired: 24 Sep 2001 23:21
Inst: HP_07 Operator ID: SA
Name: ARI660L37M
Misc: 5-210-7
Method: F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 7:59 2001 Quant Results File: XPCBI24.RES



CA 9-25-01

DCB #2 17.40min area: 391714 m

Integration Time Range: 17.32 - 17.59

OK 9-27-01

F:\HPCHEM\HP\7\DATA\09_24_01\7_092423.D
Report generated: Tue Sep 25 08:13:04 2001

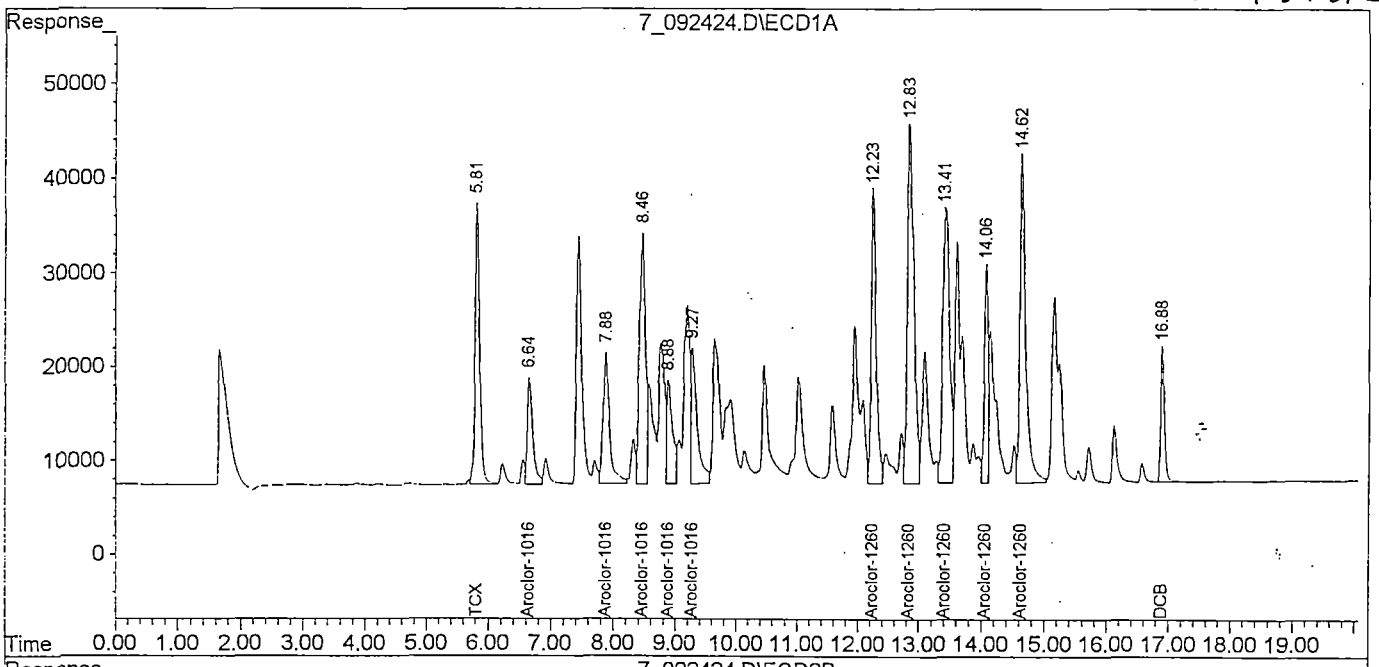
Chromatographic Report

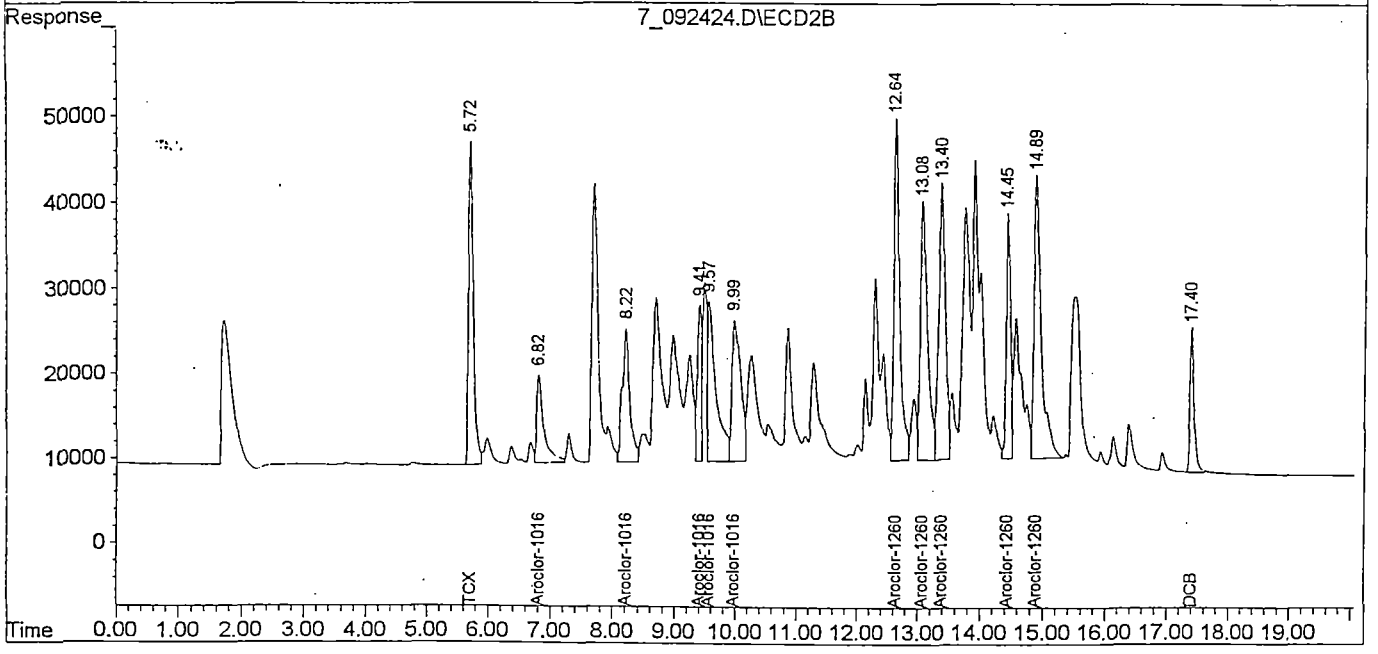
Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092424.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092424.D\ECD2B.CH
Acq On : 24 Sep 2001 23:45 Operator: SA
Sample : AR1660L47I ✓ Inst : HP_07
Misc : 5-209-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 8:45 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-27-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092424.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092424.D\ECD2B.CH
Acq On : 24 Sep 2001 23:45 Operator: SA
Sample : AR1660L47I Inst : HP_07
Misc : 5-209-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 8:45 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

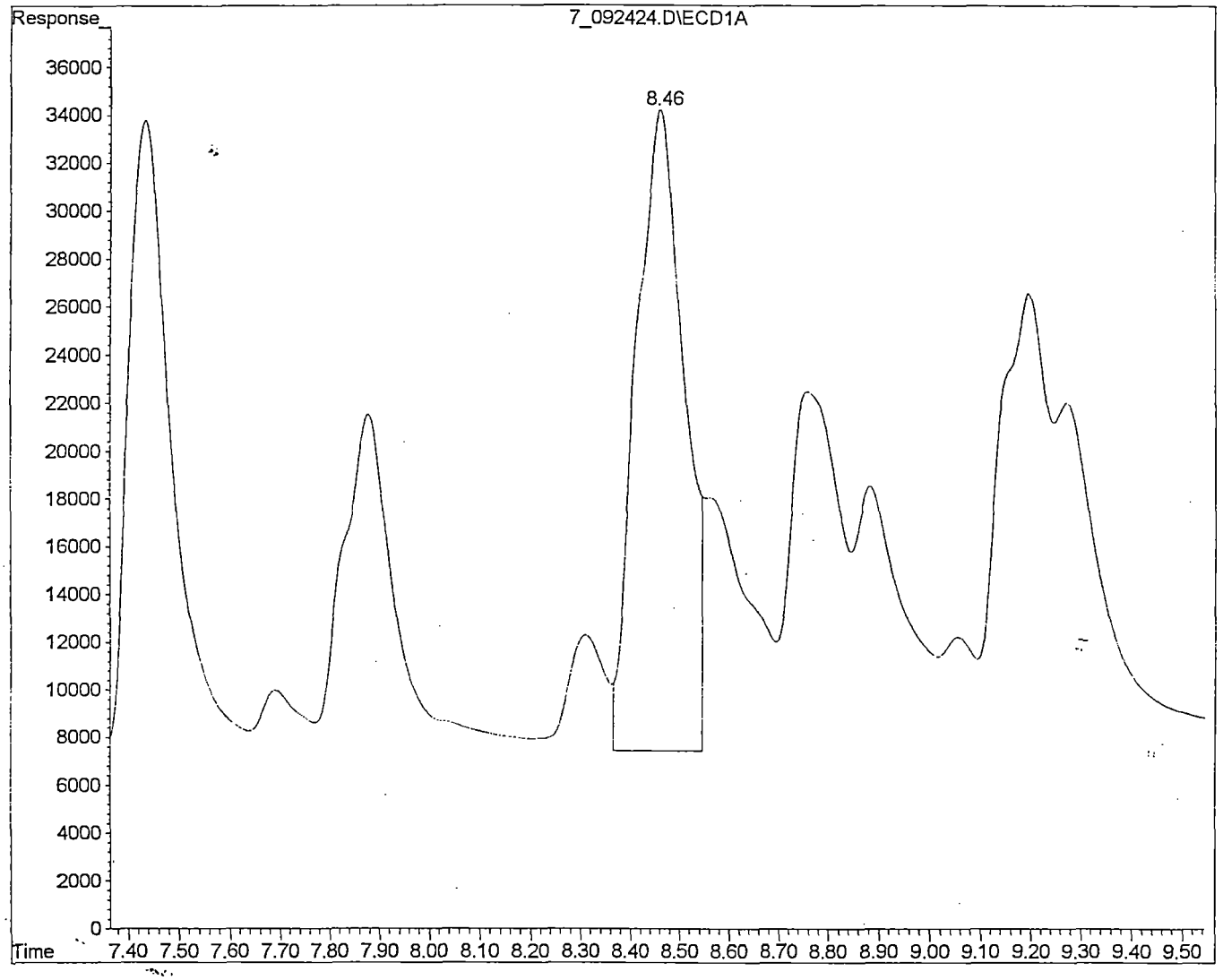
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds:						
1) S TCX	5.81	5.72	1546373	2095623	35.6	34.9
22) S DCB	16.88	17.40	601138	765992	27.2	26.2m
Target Compounds:						
2) L1 Aroclor-1016	6.64	6.82	695018	839860	658.2	590.4
3) L1 Aroclor-1016 {2}	7.88	8.22	1047927	1338598	678.7	623.8
4) L1 Aroclor-1016 {3}	8.46	9.42	1827259	865245	478.4m	600.9 #
5) L1 Aroclor-1016 {4}	8.88	9.57	739270	1810283	718.2	741.1
6) L1 Aroclor-1016 {5}	9.27	9.99	1016659	1699891	788.0	648.1
Sum Aroclor-1016			5326133	6553877	3321.4	3204.3
Average Aroclor-1016					664.279	640.854
17) L7 Aroclor-1260	12.24	12.64	1781183	2676852	673.3	632.7
18) L7 Aroclor-1260 {2}	12.83	13.08	2850941	2427342	647.2	577.1
19) L7 Aroclor-1260 {3}	13.41	13.40	2168962	2345089	616.4	622.9
20) L7 Aroclor-1260 {4}	14.06	14.45	984476	1412236	605.7	557.4
21) L7 Aroclor-1260 {5}	14.62	14.90	2225332	2575902	606.7	581.1
Sum Aroclor-1260			10010895	11437421	3149.3	2971.1
Average Aroclor-1260					629.867	594.229

604.25.01

(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\7\DATA\09_24_01\7_092424.D
Date Acquired: 24 Sep 2001 23:45
Inst: HP_07 Operator ID: SA
Name: AR1660L47I
Misc: 5-209-7
Method: F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 8:45 2001 Quant Results File: XPCBI24.RES



Aroclor-1016 {3} 8.46min area: 1827259 m

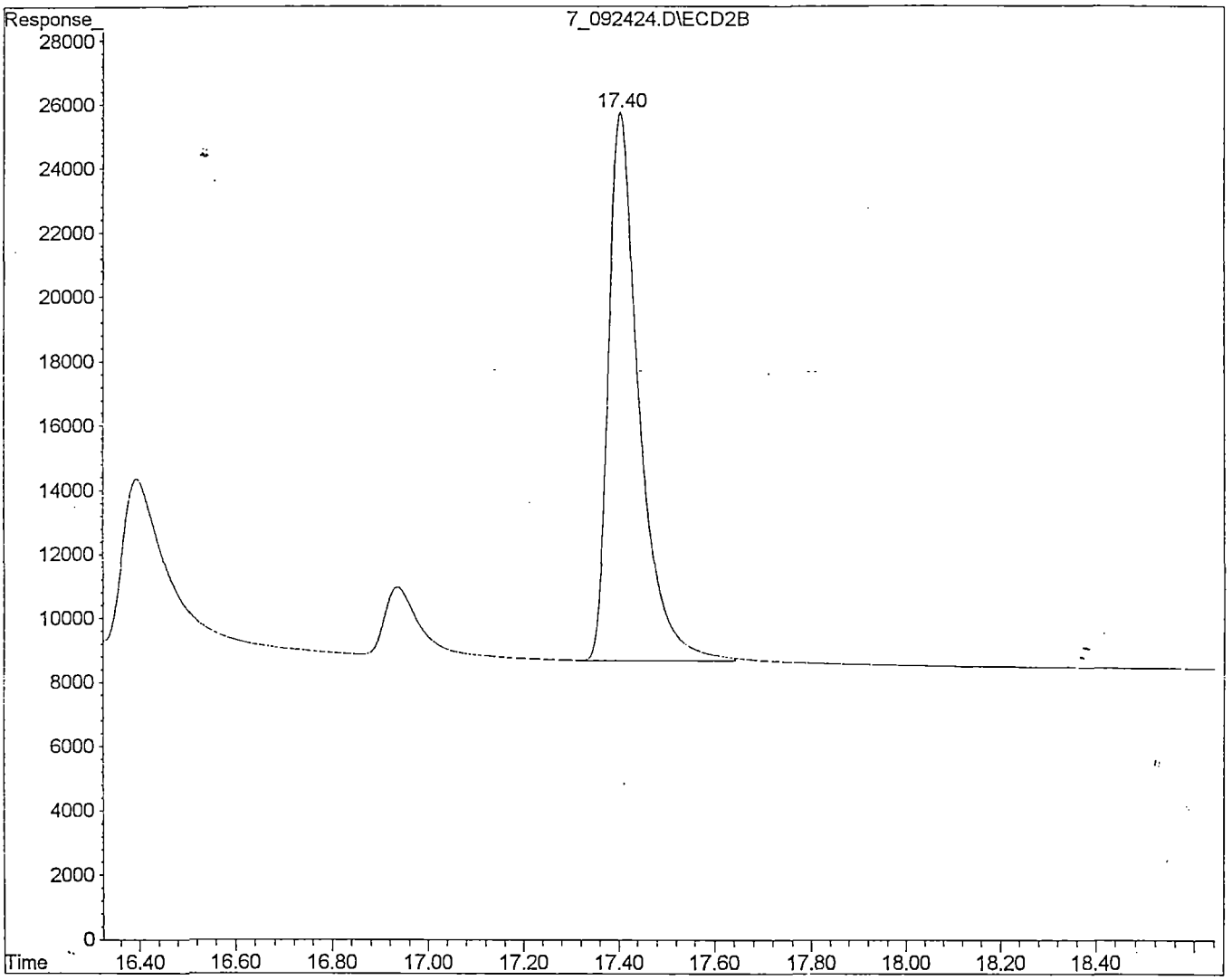
Integration Time Range: 8.36 - 8.55

OK 9-27-01

F:\HPCHEM\HP\7\DATA\09_24_01\7_092424.D
Report generated: Tue Sep 25 08:47:58 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_24_01\7_092424.D
Date Acquired: 24 Sep 2001 23:45
Inst: HP_07 Operator ID: SA
Name: AR1660L47I
Misc: 5-209-7
Method: F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 8:45 2001 Quant Results File: XPCBI24.RES



A9-25-01

DCB #2 17.40min area: 765992 m

Integration Time Range: 17.32 - 17.64

OK 9-27-01

F:\HPCHEM\HP\7\DATA\09_24_01\7_092424.D
Report generated: Tue Sep 25 08:47:59 2001

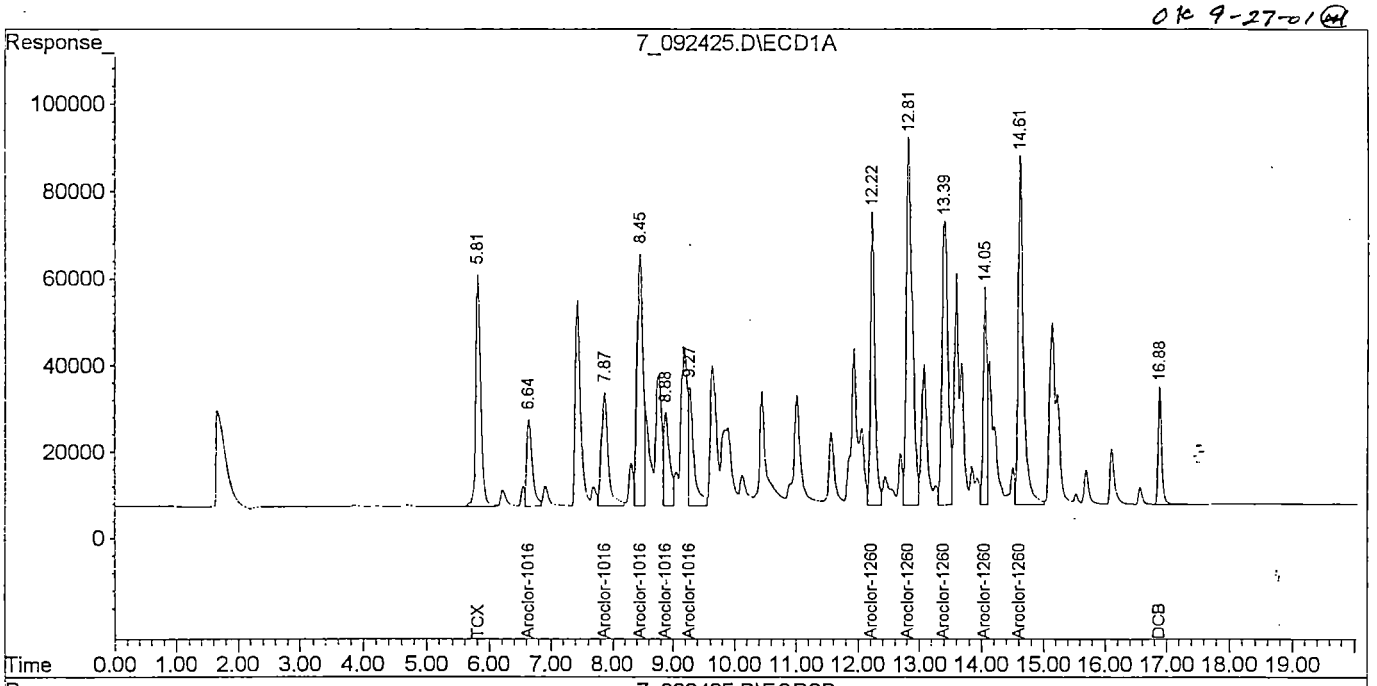
Chromatographic Report

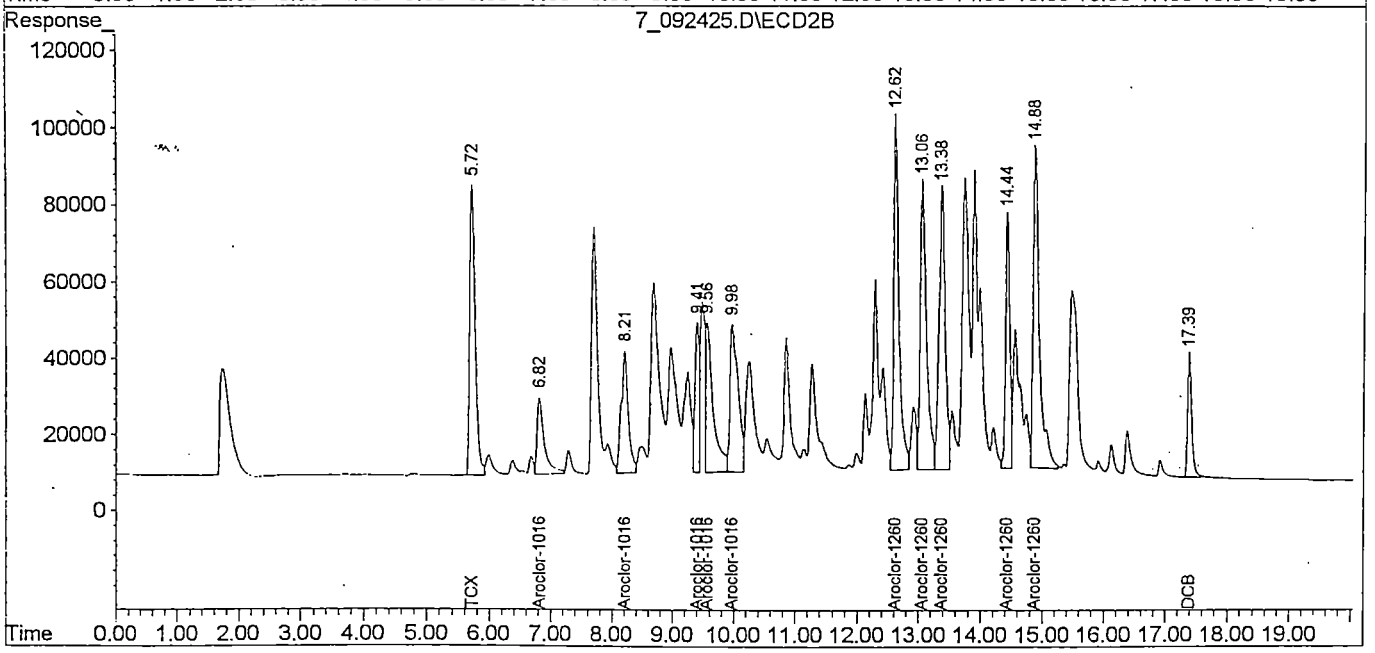
Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092425.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092425.D\ECD2B.CH
Acq On : 25 Sep 2001 00:09 Operator: SA
Sample : AR1660L57I Inst : HP_07
Misc : 5-208-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 8:46 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-27-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092425.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092425.D\ECD2B.CH
Acq On : 25 Sep 2001 00:09 Operator: SA
Sample : AR1660L57I Inst : HP_07
Misc : 5-208-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 8:46 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

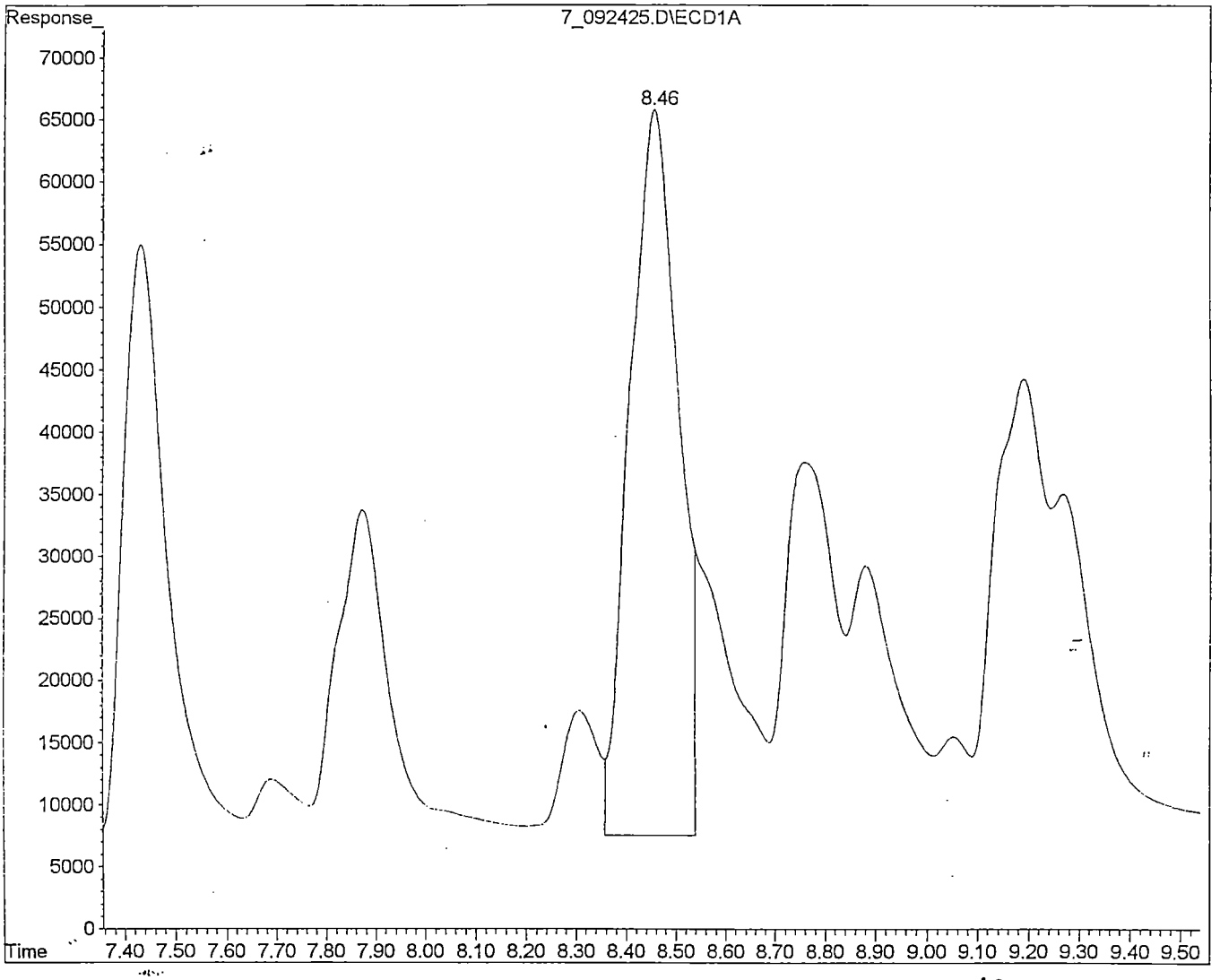
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.81	5.72	3090956	4658795	71.2	77.5
22)	S DCB	16.88	17.39	1110635	1446937	50.3	49.5m
	Target Compounds:						
2)	L1 Aroclor-1016	6.64	6.82	1291199	1650098	1222.7	1160.0
3)	L1 Aroclor-1016 {2}	7.87	8.22	1969294	2688093	1275.5 E	1252.6 E
4)	L1 Aroclor-1016 {3}	8.46	9.41	3981652	1810709	1042.4m	1257.5
5)	L1 Aroclor-1016 {4}	8.88	9.56	1444338	3339019	1403.1	1366.9
6)	L1 Aroclor-1016 {5}	9.27	9.98	1749409	3591392	1355.9	1369.3 E
	Sum Aroclor-1016			10435892	13079312	6299.6	6406.3
	Average Aroclor-1016					1259.919	1281.261
17)	L7 Aroclor-1260	12.22	12.62	3434083	5510244	1298.2 E	1302.4 E
18)	L7 Aroclor-1260 {2}	12.81	13.06	5671382	5320159	1287.5 E	1264.8
19)	L7 Aroclor-1260 {3}	13.39	13.38	4593761	5022822	1305.6 E	1334.1 E
20)	L7 Aroclor-1260 {4}	14.05	14.44	1980092	3088641	1218.3 E	1219.1 E
21)	L7 Aroclor-1260 {5}	14.61	14.88	4601263	5760382	1254.4 E	1299.5mE
	Sum Aroclor-1260			20280581	24702248	6363.9	6419.9
	Average Aroclor-1260					1272.775	1283.971

CD 9-25-01

(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\7\DATA\09_24_01\7_092425.D
Date Acquired: 25 Sep 2001 00:09
Inst: HP_07 Operator ID: SA
Name: AR1660L57I
Misc: 5-208-7
Method: F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 8:46 2001 Quant Results File: XPCBI24.RES



A 9-25-01

Aroclor-1016 {3} 8.46min area: 3981652 m

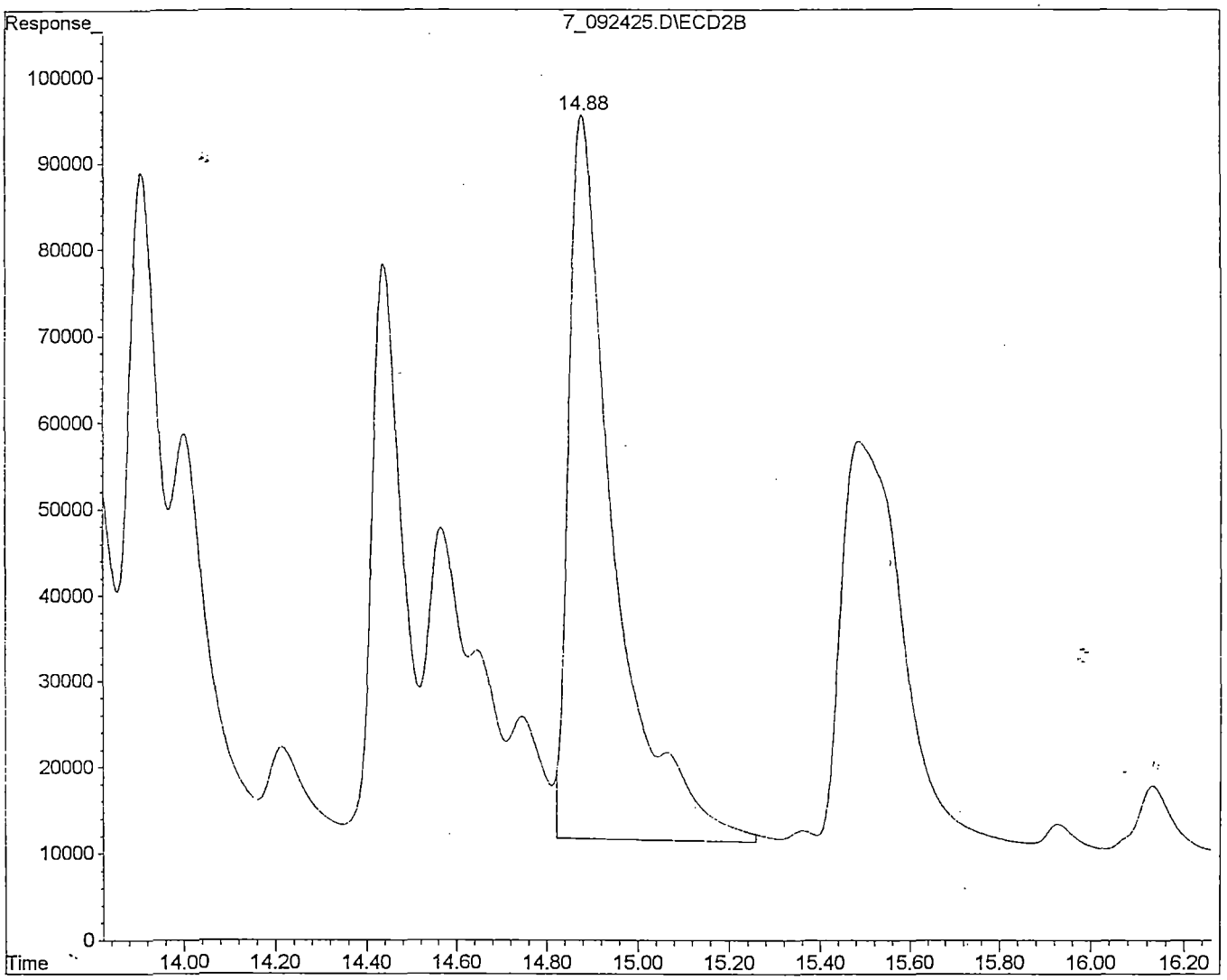
Integration Time Range: 8.36 - 8.54

OK 9-27-01

F:\HPCHEM\HP\7\DATA\09_24_01\7_092425.D
Report generated: Tue Sep 25 08:48:00 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_24_01\7_092425.D
Date Acquired: 25 Sep 2001 00:09
Inst: HP_07 Operator ID: SA
Name: AR1660L57I
Misc: 5-208-7
Method: F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 8:46 2001 Quant Results File: XPCBI24.RES



A 9-28-1

Aroclor-1260 {5} #2 14.88min area: 5760382 m

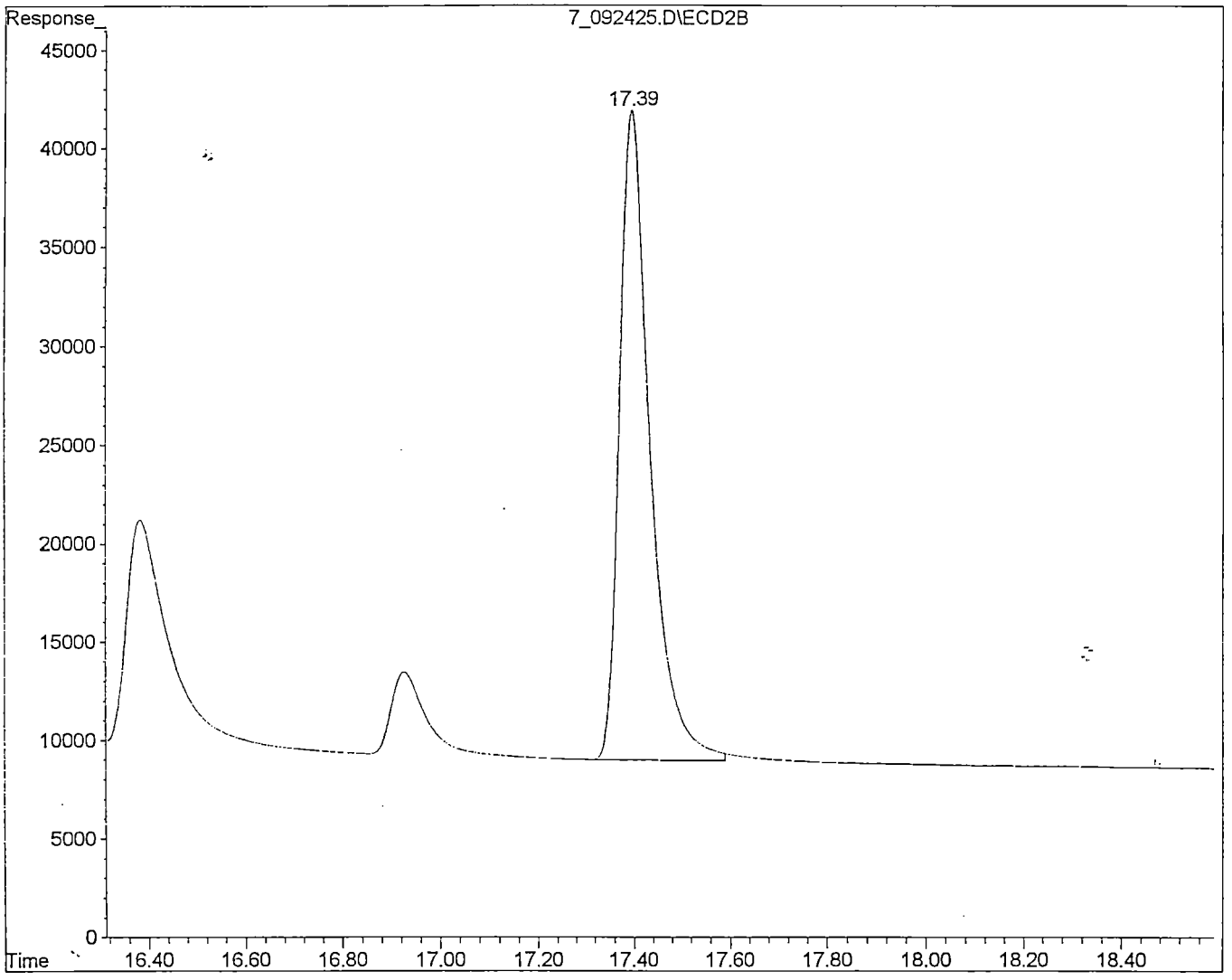
Integration Time Range: 14.82 - 15.26

OK 9-27-01

F:\HPCHEM\HP\7\DATA\09_24_01\7_092425.D
Report generated: Tue Sep 25 08:48:02 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_24_01\7_092425.D
Date Acquired: 25 Sep 2001 00:09
Inst: HP_07 Operator ID: SA
Name: AR1660L57I
Misc: 5-208-7
Method: F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 8:46 2001 Quant Results File: XPCBI24.RES



CA 9-25-01

DCB #2 17.39min area: 1446937 m

Integration Time Range: 17.31 - 17.59

OK 9-27-01

F:\HPCHEM\HP\7\DATA\09_24_01\7_092425.D
Report generated: Tue Sep 25 08:48:02 2001

Continuing Calibration Report HP_07

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Fri Sep 28 14:21:58 2001
Response via : Initial Calibration

Continuing Calibration File: 7_092817.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	38.836	40.754	E3	-4.9	107
2	L1	Aroclor-1016	0.935	0.981	E3	-5.0	105
3	L1	Aroclor-1016 {2}	1.405	1.501	E3	-6.9	107
4	L1	Aroclor-1016 {3}	2.145	2.195	E3	-2.3	107
5	L1	Aroclor-1016 {4}	0.977	1.042	E3	-6.6	107
6	L1	Aroclor-1016 {5}	1.476	1.575	E3	-6.7	107
17	L7	Aroclor-1260	2.470	2.456	E3	0.6	101
18	L7	Aroclor-1260 {2}	3.863	3.810	E3	1.4	100
19	L7	Aroclor-1260 {3}	2.813	2.765	E3	1.7	101
20	L7	Aroclor-1260 {4}	1.344	1.304	E3	2.9	100
21	L7	Aroclor-1260 {5}	2.939	2.798	E3	4.8	97
22	S	DCB	16.186	14.443	E3	10.8	92

Signal #2
Continuing Calibration File: 7_092817.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	50.238	50.261	E3	-0.0	106
2	L1	Aroclor-1016	1.100	1.156	E3	-5.0	107
3	L1	Aroclor-1016 {2}	1.779	1.842	E3	-3.5	107
4	L1	Aroclor-1016 {3}	1.117	1.225	E3	-9.6	116
5	L1	Aroclor-1016 {4}	2.593	2.568	E3	1.0	102
6	L1	Aroclor-1016 {5}	2.245	2.325	E3	-3.6	109
17	L7	Aroclor-1260	3.629	3.515	E3	3.1	101
18	L7	Aroclor-1260 {2}	3.221	3.181	E3	1.2	104
19	L7	Aroclor-1260 {3}	3.110	3.014	E3	3.1	101
20	L7	Aroclor-1260 {4}	1.848	1.803	E3	2.5	102
21	L7	Aroclor-1260 {5}	3.383	3.204	E3	5.3	101
22	S	DCB	20.638	18.893	E3	8.5	96

(#) = Out of Range SPCC's out = 0 CCC's out = 0

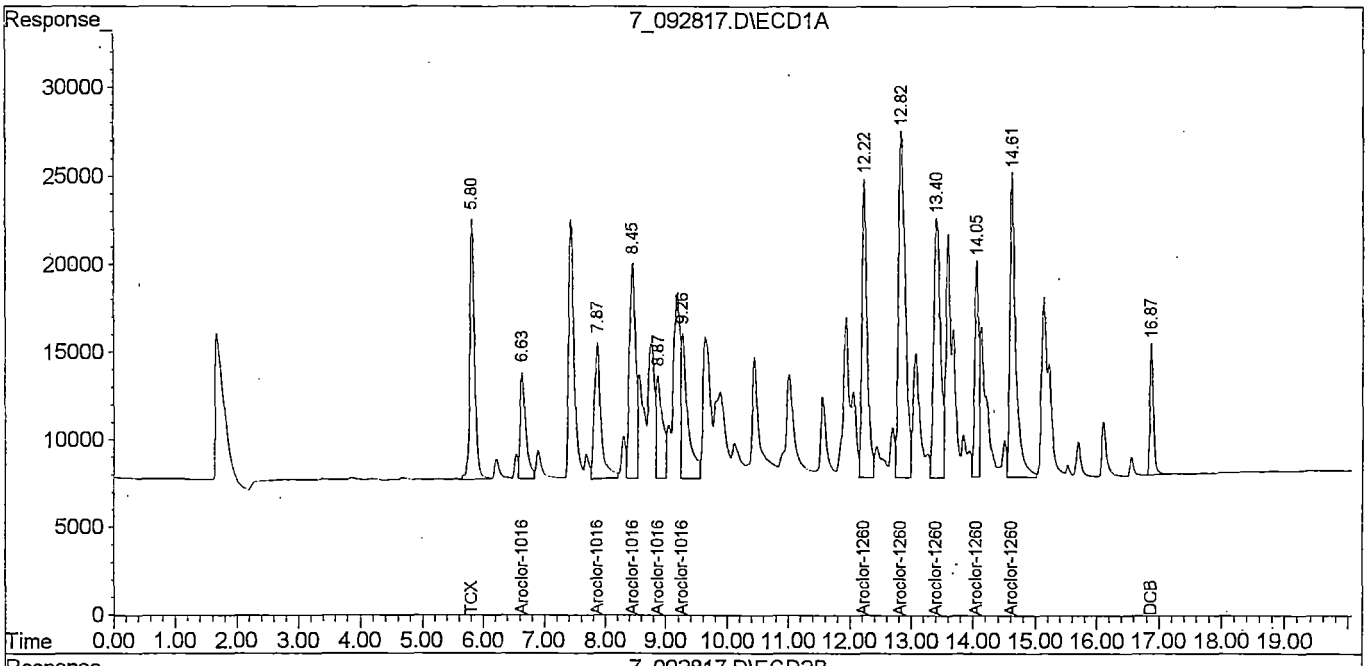
7_092817.D XPCBI24.M Fri Sep 28 14:22:09 2001

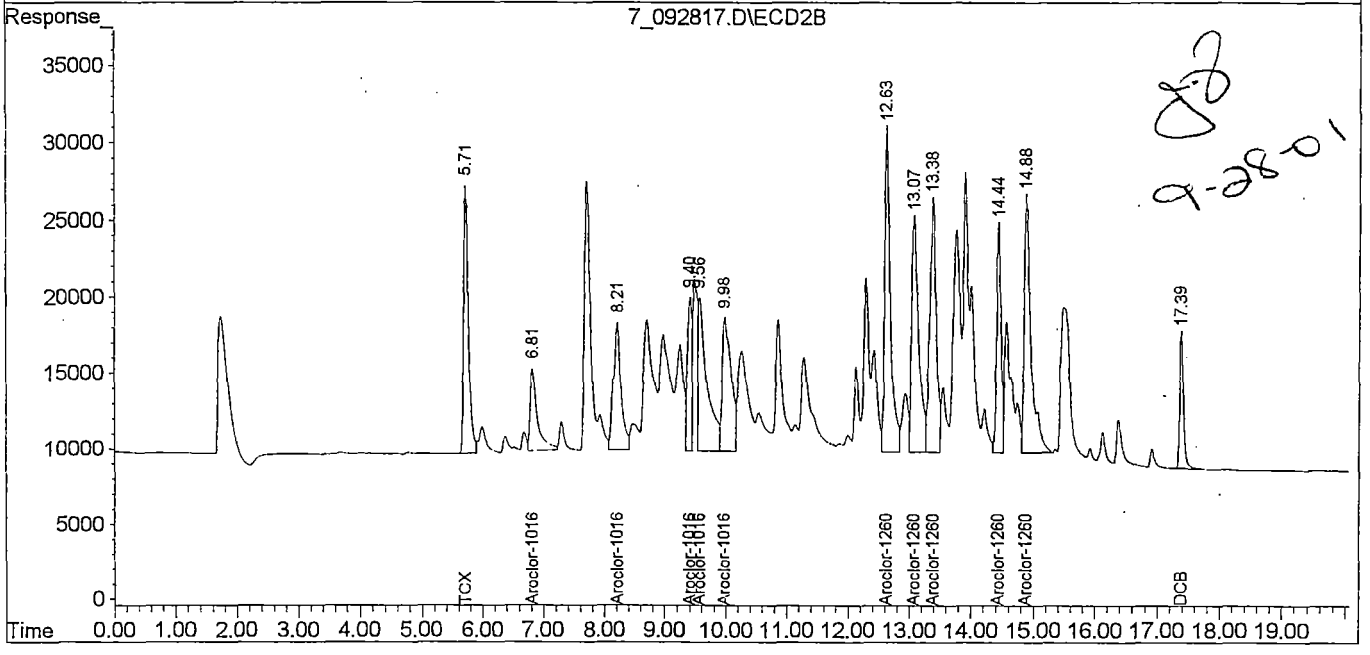
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092817.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092817.D\ECD2B.CH
Acq On : 28 Sep 2001 13:56 Operator: SA
Sample : AR1660L37C Inst : HP_07
Misc : 5-293-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 14:21 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





9-28-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092817.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092817.D\ECD2B.CH
Acq On : 28 Sep 2001 13:56 Operator: SA
Sample : AR1660L37C Inst : HP_07
Misc : 5-293-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 14:21 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds:						
1) S TCX	5.80	5.71	815089	1005219	21.0	20.0
22) S DCB	16.87	17.39	288851	377868	17.8	18.3
Target Compounds:						
2) L1 Aroclor-1016	6.64	6.82	392496	462209	419.8	420.0
3) L1 Aroclor-1016 {2}	7.87	8.21	600497	736900	427.4	414.2
4) L1 Aroclor-1016 {3}	8.45	9.40	877994	490012	409.4	438.6
5) L1 Aroclor-1016 {4}	8.87	9.56	416789	1027046	426.5	396.1
6) L1 Aroclor-1016 {5}	9.26	9.98	630110	929829	426.8	414.3
Sum Aroclor-1016			2917887	3645995	2110.0	2083.1
Average Aroclor-1016					421.994	416.622
17) L7 Aroclor-1260	12.22	12.63	982200	1406156	397.6	387.5
18) L7 Aroclor-1260 {2}	12.82	13.08	1523829	1272536	394.4	395.1
19) L7 Aroclor-1260 {3}	13.40	13.38	1105932	1205698	393.2	387.7
20) L7 Aroclor-1260 {4}	14.05	14.44	521791	721049	388.4	390.1
21) L7 Aroclor-1260 {5}	14.61	14.88	1119007	1281515	380.8	378.8
Sum Aroclor-1260			5252759	5886954	1954.4	1939.2
Average Aroclor-1260					390.872	387.839

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

Continuing Calibration Report HP_07

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Fri Sep 28 19:06:48 2001
Response via : Initial Calibration

Continuing Calibration File: 7_092829.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	38.836	42.113	E3	-8.4	110
2	L1	Aroclor-1016	0.935	1.003	E3	-7.3	107
3	L1	Aroclor-1016 {2}	1.405	1.523	E3	-8.4	109
4	L1	Aroclor-1016 {3}	2.145	2.234	E3	-4.2	108
5	L1	Aroclor-1016 {4}	0.977	1.045	E3	-7.0	108
6	L1	Aroclor-1016 {5}	1.476	1.619	E3	-9.7	110
17	L7	Aroclor-1260	2.470	2.535	E3	-2.6	104
18	L7	Aroclor-1260 {2}	3.863	3.937	E3	-1.9	103
19	L7	Aroclor-1260 {3}	2.813	2.852	E3	-1.4	104
20	L7	Aroclor-1260 {4}	1.344	1.388	E3	-3.3	107
21	L7	Aroclor-1260 {5}	2.939	3.055	E3	-3.9	106
22	S	DCB	16.186	18.081	E3	-11.7	115

Signal #2
Continuing Calibration File: 7_092829.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	50.238	52.938	E3	-5.4	111
2	L1	Aroclor-1016	1.100	1.172	E3	-6.5	108
3	L1	Aroclor-1016 {2}	1.779	1.901	E3	-6.9	111
4	L1	Aroclor-1016 {3}	1.117	1.222	E3	-9.4	115
5	L1	Aroclor-1016 {4}	2.593	2.774	E3	-7.0	110
6	L1	Aroclor-1016 {5}	2.245	2.386	E3	-6.3	111
17	L7	Aroclor-1260	3.629	3.688	E3	-1.6	106
18	L7	Aroclor-1260 {2}	3.221	3.222	E3	-0.0	105
19	L7	Aroclor-1260 {3}	3.110	3.166	E3	-1.8	106
20	L7	Aroclor-1260 {4}	1.848	1.898	E3	-2.7	107
21	L7	Aroclor-1260 {5}	3.383	3.435	E3	-1.5	109
22	S	DCB	20.638	23.848	E3	-15.6#	122

(#) = Out of Range SPCC's out = 0 CCC's out = 0

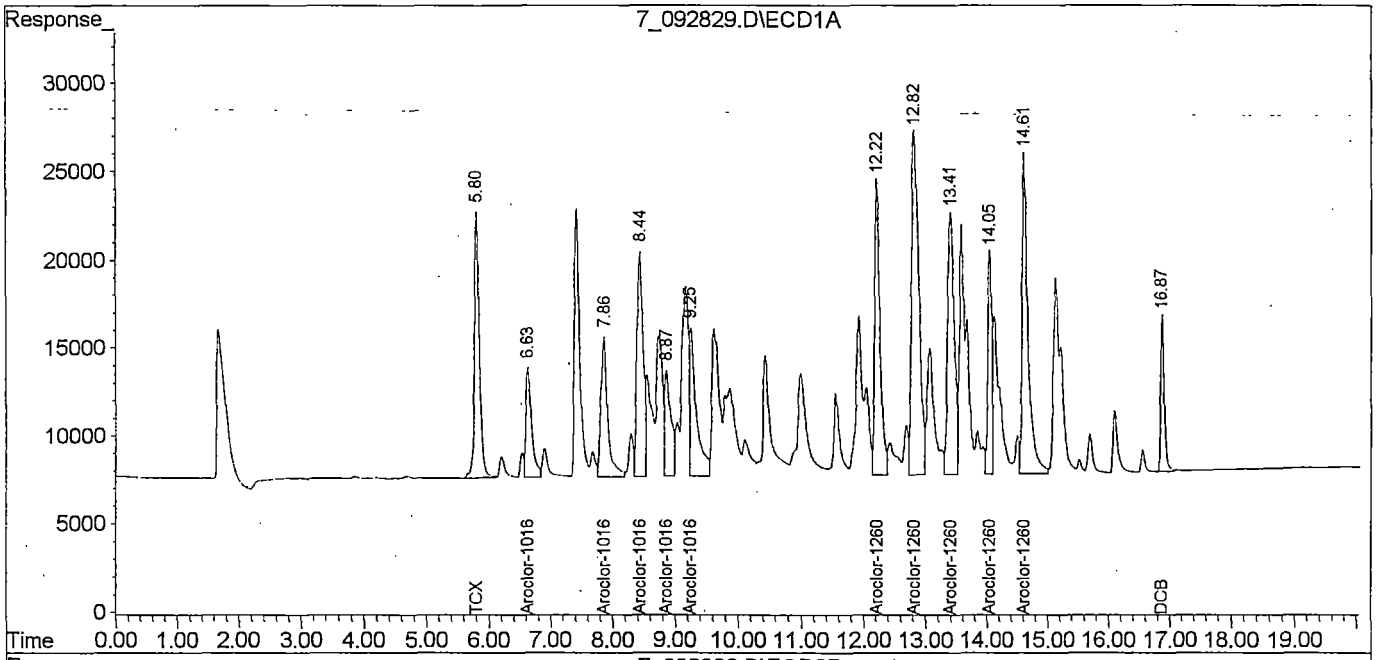
7_092829.D XPCBI24.M Fri Sep 28 19:06:57 2001

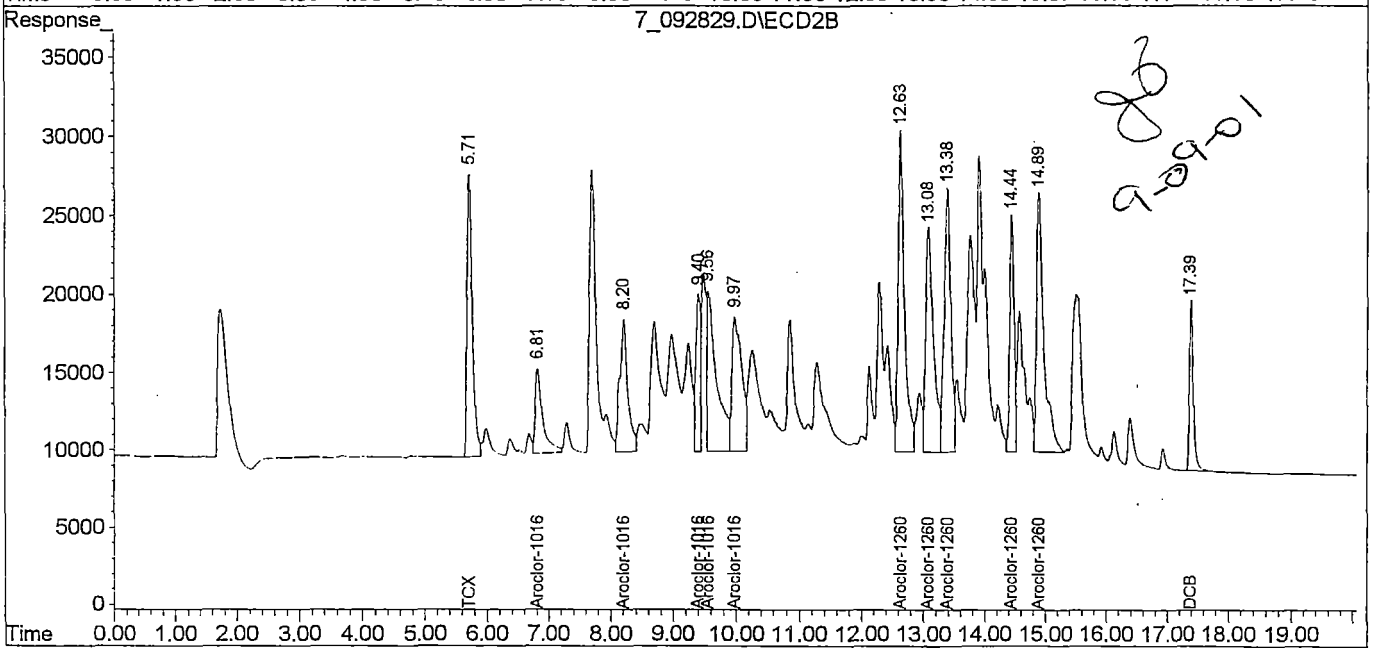
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092829.D\ECD1A.CH Vial: 29
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092829.D\ECD2B.CH
Acq On : 28 Sep 2001 18:43 Operator: SA
Sample : AR1660L37E Inst : HP_07
Misc : 5-293-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 19:05 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





8
9-29-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092829.D\ECD1A.CH Vial: 29
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092829.D\ECD2B.CH
Acq On : 28 Sep 2001 18:43 Operator: SA
Sample : AR1660L37E Inst : HP_07
Misc : 5-293-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 19:05 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.80	5.71	842265	1058760	21.7	21.1
22)	S DCB	16.87	17.39	361615	476961	22.3	23.1
	Target Compounds:						
2)	L1 Aroclor-1016	6.63	6.81	401084	468676	429.0	425.9
3)	L1 Aroclor-1016 {2}	7.86	8.20	609123	760505	433.6	427.4
4)	L1 Aroclor-1016 {3}	8.44	9.40	893588	488752	416.6	437.4
5)	L1 Aroclor-1016 {4}	8.87	9.56	418165	1109606	427.9	427.9
6)	L1 Aroclor-1016 {5}	9.25	9.97	647505	954441	438.6	425.2
	Sum Aroclor-1016			2969465	3781980	2145.8	2143.9
	Average Aroclor-1016					429.152	428.786
17)	L7 Aroclor-1260	12.22	12.63	1013840	1475201	410.4	406.6
18)	L7 Aroclor-1260 {2}	12.82	13.08	1574682	1288855	407.6	400.1
19)	L7 Aroclor-1260 {3}	13.41	13.38	1140930	1266301	405.6	407.2
20)	L7 Aroclor-1260 {4}	14.05	14.44	555358	759178	413.4	410.7
21)	L7 Aroclor-1260 {5}	14.61	14.89	1221849	1373865	415.8	406.1
	Sum Aroclor-1260			5506659	6163399	2052.8	2030.7
	Average Aroclor-1260					410.551	406.140

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

Continuing Calibration Report HP_07

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Sat Sep 29 07:50:27 2001
Response via : Initial Calibration

Continuing Calibration File: 7_092846.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	38.836	40.380	E3	-4.0	106
2	L1	Aroclor-1016	0.935	0.986	E3	-5.5	106
3	L1	Aroclor-1016 {2}	1.405	1.495	E3	-6.4	107
4	L1	Aroclor-1016 {3}	2.145	2.332	E3	-8.7	113
5	L1	Aroclor-1016 {4}	0.977	1.029	E3	-5.3	106
6	L1	Aroclor-1016 {5}	1.476	1.483	E3	-0.5	101
17	L7	Aroclor-1260	2.470	2.376	E3	3.8	97
18	L7	Aroclor-1260 {2}	3.863	3.703	E3	4.2	97
19	L7	Aroclor-1260 {3}	2.813	2.728	E3	3.0	100
20	L7	Aroclor-1260 {4}	1.344	1.242	E3	7.5	95
21	L7	Aroclor-1260 {5}	2.939	2.641	E3	10.1	92
22	S	DCB	16.186	13.747	E3	15.1#	87

Signal #2
Continuing Calibration File: 7_092846.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	50.238	51.780	E3	-3.1	109
2	L1	Aroclor-1016	1.100	1.278	E3	-16.1#	118
3	L1	Aroclor-1016 {2}	1.779	1.960	E3	-10.2	114
4	L1	Aroclor-1016 {3}	1.117	1.343	E3	-20.2#	127
5	L1	Aroclor-1016 {4}	2.593	2.520	E3	2.8	100
6	L1	Aroclor-1016 {5}	2.245	2.479	E3	-10.4	116
17	L7	Aroclor-1260	3.629	3.662	E3	-0.9	105
18	L7	Aroclor-1260 {2}	3.221	3.454	E3	-7.2	113
19	L7	Aroclor-1260 {3}	3.110	3.112	E3	-0.1	105
20	L7	Aroclor-1260 {4}	1.848	1.865	E3	-0.9	106
21	L7	Aroclor-1260 {5}	3.383	3.254	E3	3.8	103
22	S	DCB	20.638	18.221	E3	11.7	93

(#) = Out of Range SPCC's out = 0 CCC's out = 0

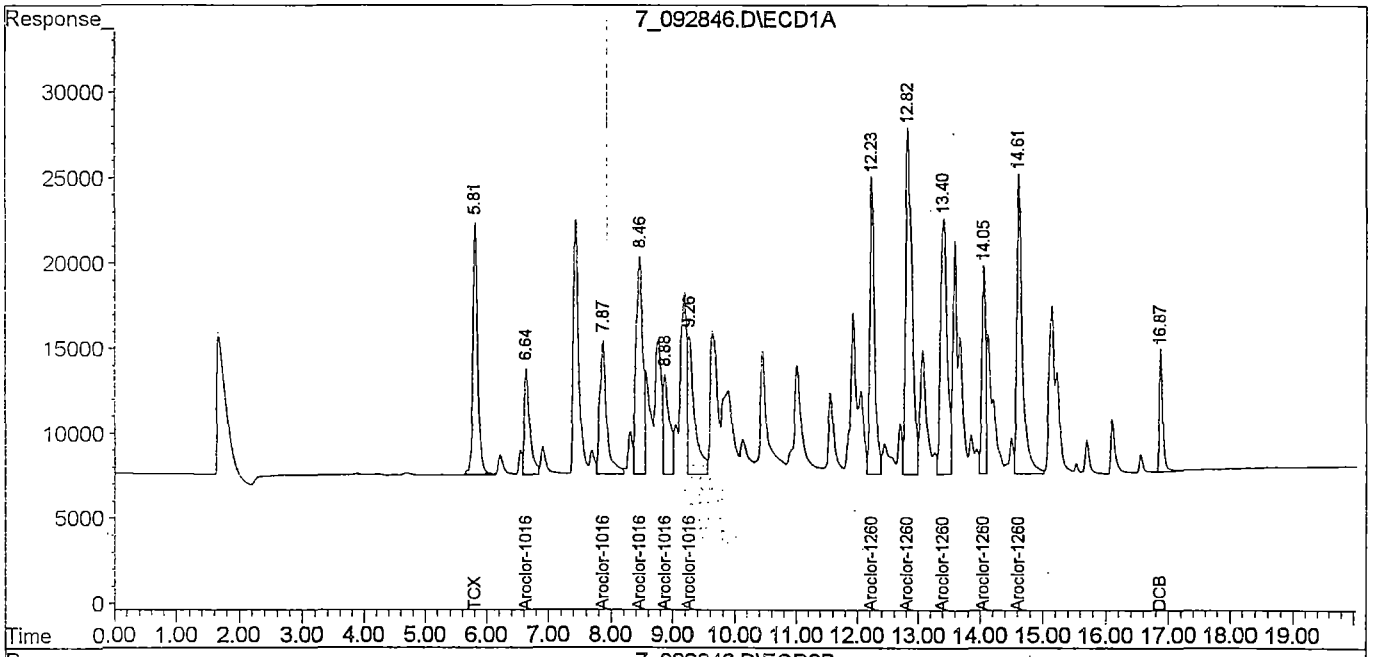
7_092846.D XPCBI24.M Sat Sep 29 07:50:36 2001

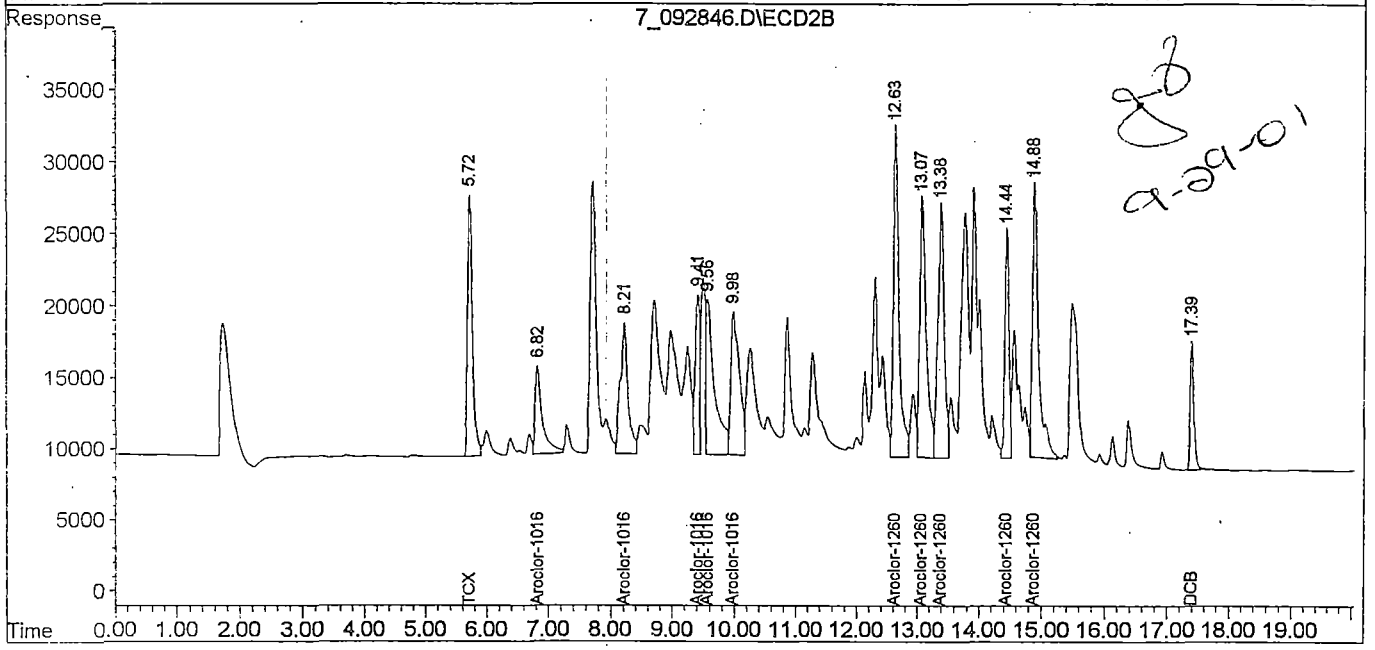
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092846.D\ECD1A.CH Vial: 46
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092846.D\ECD2B.CH
Acq On : 29 Sep 2001 1:33 Operator: SA
Sample : AR1660L37G Inst : HP_07
Misc : 5-293-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 7:50 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





9-29-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092846.D\ECD1A.CH Vial: 46
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092846.D\ECD2B.CH
Acq On : 29 Sep 2001 1:33 Operator: SA
Sample : AR1660L37G Inst : HP_07
Misc : 5-293-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 7:50 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I
Signal #1 Info : .32 mm
Signal #1 Inst : HP_07A

Signal #2 Phase: PEST II
Signal #2 Info : .32 mm
Signal #2 Inst : HP_07B

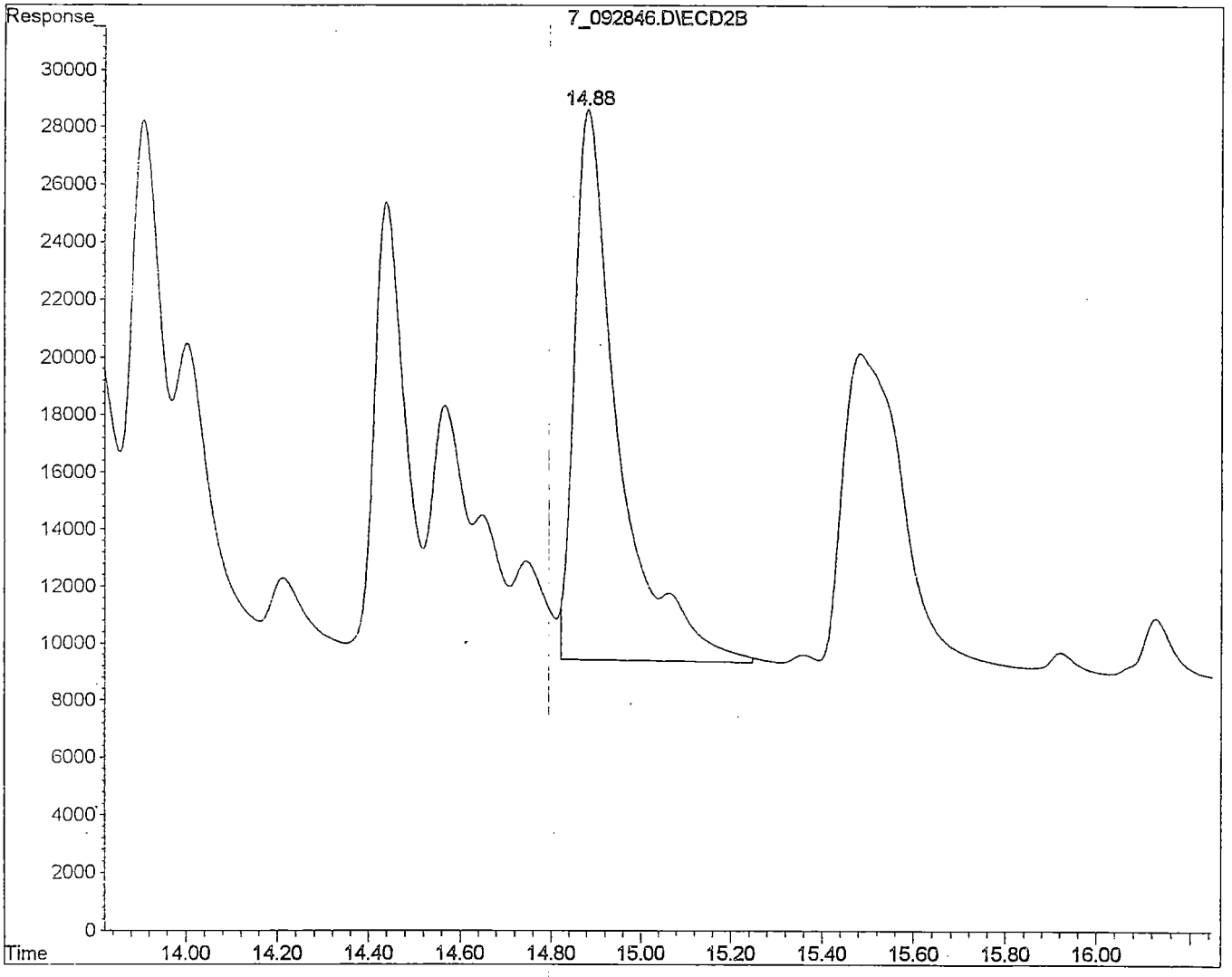
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.81	5.72	807594	1035595	20.8	20.6
22)	S DCB	16.87	17.39	274932	364429	17.0	17.7
	Target Compounds:						
2)	L1 Aroclor-1016	6.64	6.82	394547	511163	422.0	464.5
3)	L1 Aroclor-1016 {2}	7.87	8.21	597891	784058	425.6	440.7
4)	L1 Aroclor-1016 {3}	8.46	9.41	932658	537129	434.9	480.7
5)	L1 Aroclor-1016 {4}	8.88	9.56	411717	1008186	421.3	388.8
6)	L1 Aroclor-1016 {5}	9.26	9.98	593236	991476	401.9	441.7
	Sum Aroclor-1016			2930049	3832012	2105.6	2216.5
	Average Aroclor-1016					421.126	443.292
17)	L7 Aroclor-1260	12.23	12.63	950283	1464890	384.7	403.7
18)	L7 Aroclor-1260 {2}	12.82	13.07	1481054	1381588	383.4	428.9
19)	L7 Aroclor-1260 {3}	13.40	13.38	1091383	1244984	388.0	400.3
20)	L7 Aroclor-1260 {4}	14.05	14.44	496846	745911	369.8	403.5
21)	L7 Aroclor-1260 {5}	14.61	14.88	1056204	1301411	359.4	384.7m
	Sum Aroclor-1260			5075769	6138784	1885.3	2021.2
	Average Aroclor-1260					377.052	404.240

09-29-01

(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\7\DATA\09_28_01\7_092846.D
Date Acquired: 29 Sep 2001 1:33
Inst: HP_07 Operator ID: SA
Name: AR1660L37G
Misc: 5-293-7
Method: F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 29 7:50 2001 Quant Results File: XPCBI24.RES



AG 9.29.01

Aroclor-1260 {5} #2 14.88min area: 1301411 m

Integration Time Range: 14.82 - 15.25

F:\HPCHEM\HP\7\DATA\09_28_01\7_092846.D
Report generated: Sat Sep 29 07:52:44 2001

Continuing Calibration Report HP_07

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Sat Sep 29 09:02:29 2001
Response via : Initial Calibration

Continuing Calibration File: 7_092863.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	38.836	39.712	E3	-2.3	104
2	L1	Aroclor-1016	0.935	0.985	E3	-5.4	106
3	L1	Aroclor-1016 {2}	1.405	1.479	E3	-5.3	106
4	L1	Aroclor-1016 {3}	2.145	2.454	E3	-14.4	119
5	L1	Aroclor-1016 {4}	0.977	1.014	E3	-3.8	104
6	L1	Aroclor-1016 {5}	1.476	1.407	E3	4.7	96
17	L7	Aroclor-1260	2.470	2.344	E3	5.1	96
18	L7	Aroclor-1260 {2}	3.863	3.695	E3	4.3	97
19	L7	Aroclor-1260 {3}	2.813	2.748	E3	2.3	100
20	L7	Aroclor-1260 {4}	1.344	1.252	E3	6.8	96
21	L7	Aroclor-1260 {5}	2.939	2.658	E3	9.5	92
22	S	DCB	16.186	14.016	E3	13.4	89

Signal #2
Continuing Calibration File: 7_092863.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	50.238	51.284	E3	-2.1	108
2	L1	Aroclor-1016	1.100	1.296	E3	-17.8#	120
3	L1	Aroclor-1016 {2}	1.779	1.938	E3	-8.9	113
4	L1	Aroclor-1016 {3}	1.117	1.324	E3	-18.5#	125
5	L1	Aroclor-1016 {4}	2.593	2.411	E3	7.0	95
6	L1	Aroclor-1016 {5}	2.245	2.435	E3	-8.5	114
17	L7	Aroclor-1260	3.629	3.615	E3	0.4	104
18	L7	Aroclor-1260 {2}	3.221	3.452	E3	-7.2	113
19	L7	Aroclor-1260 {3}	3.110	3.089	E3	0.7	104
20	L7	Aroclor-1260 {4}	1.848	1.880	E3	-1.7	106
21	L7	Aroclor-1260 {5}	3.383	3.413	E3	-0.9	108
22	S	DCB	20.638	19.173	E3	7.1	98
		Average %Dev				49.13	

(#) = Out of Range SPCC's out = 0 CCC's out = 0

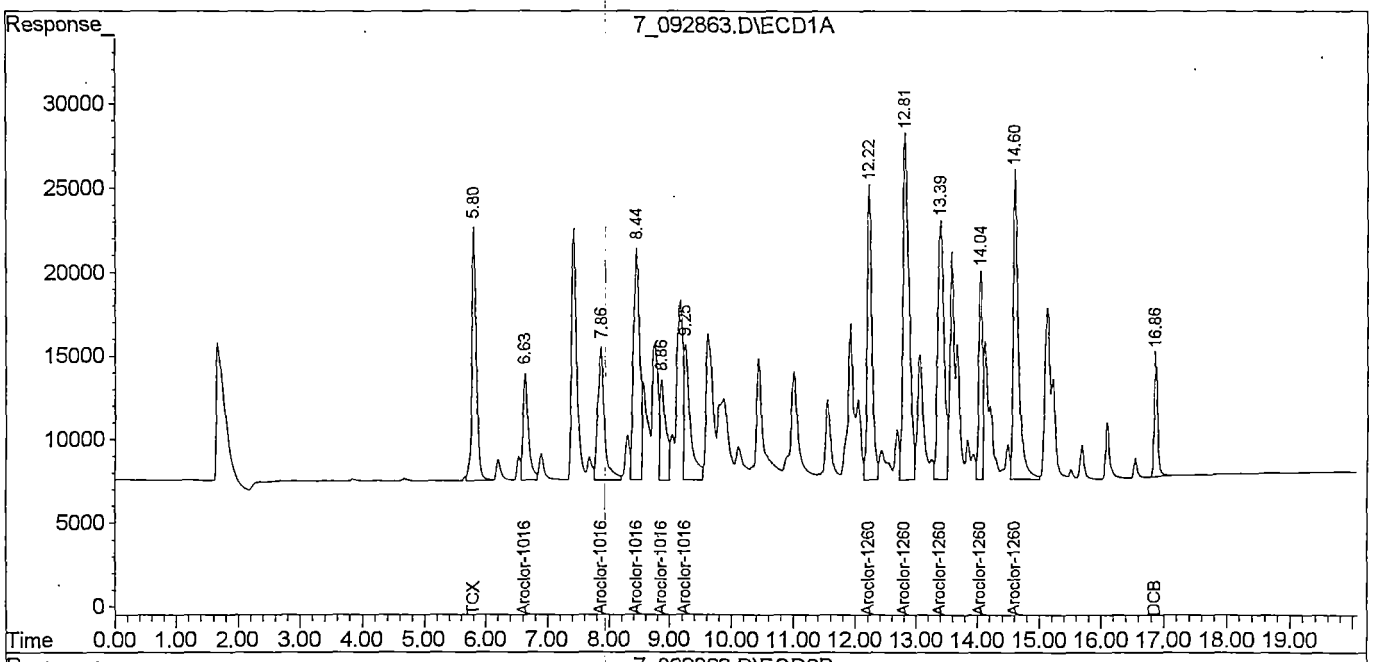
7_092863.D XPCBI24.M Sat Sep 29 09:02:37 2001

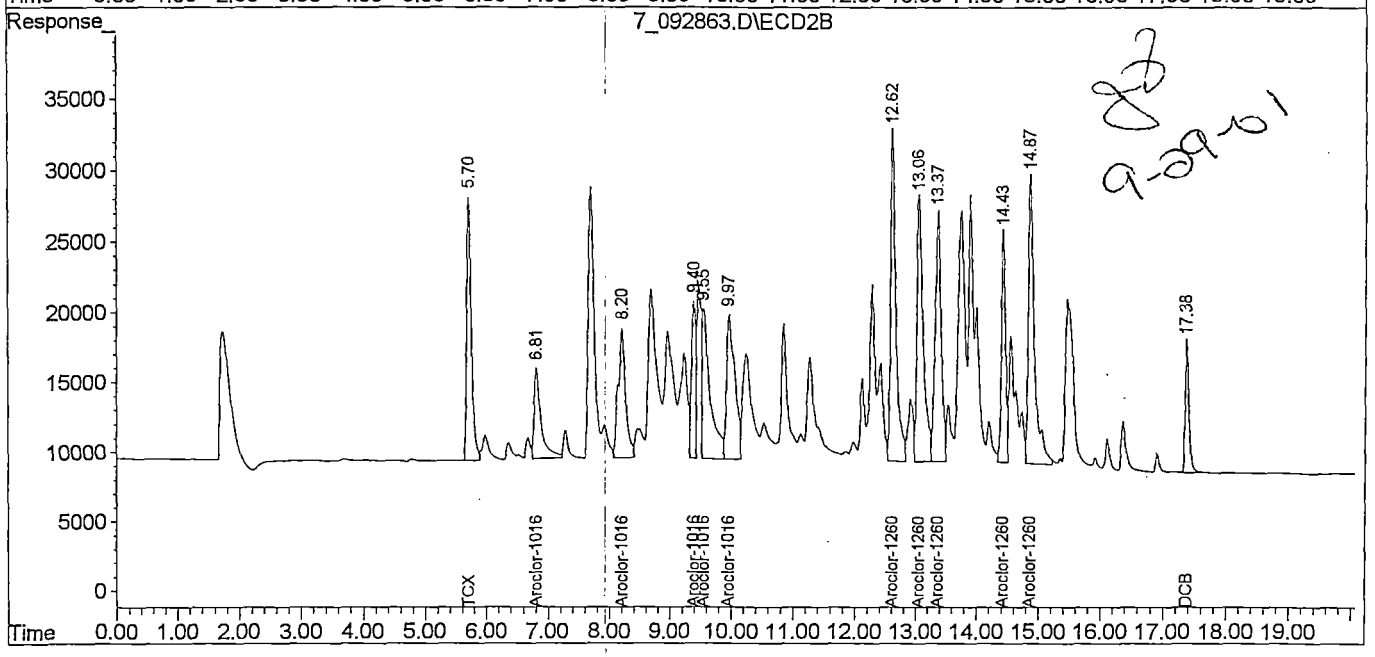
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092863.D\ECD1A.CH Vial: 63
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092863.D\ECD2B.CH
Acq On : 29 Sep 2001 8:21 Operator: SA
Sample : AR1660L37I Inst : HP_07
Misc : 5-293-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 9:02 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





9-29-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092863.D\ECD1A.CH Vial: 63
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092863.D\ECD2B.CH
Acq On : 29 Sep 2001 8:21 Operator: SA
Sample : AR1660L37I Inst : HP_07
Misc : 5-293-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 9:02 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

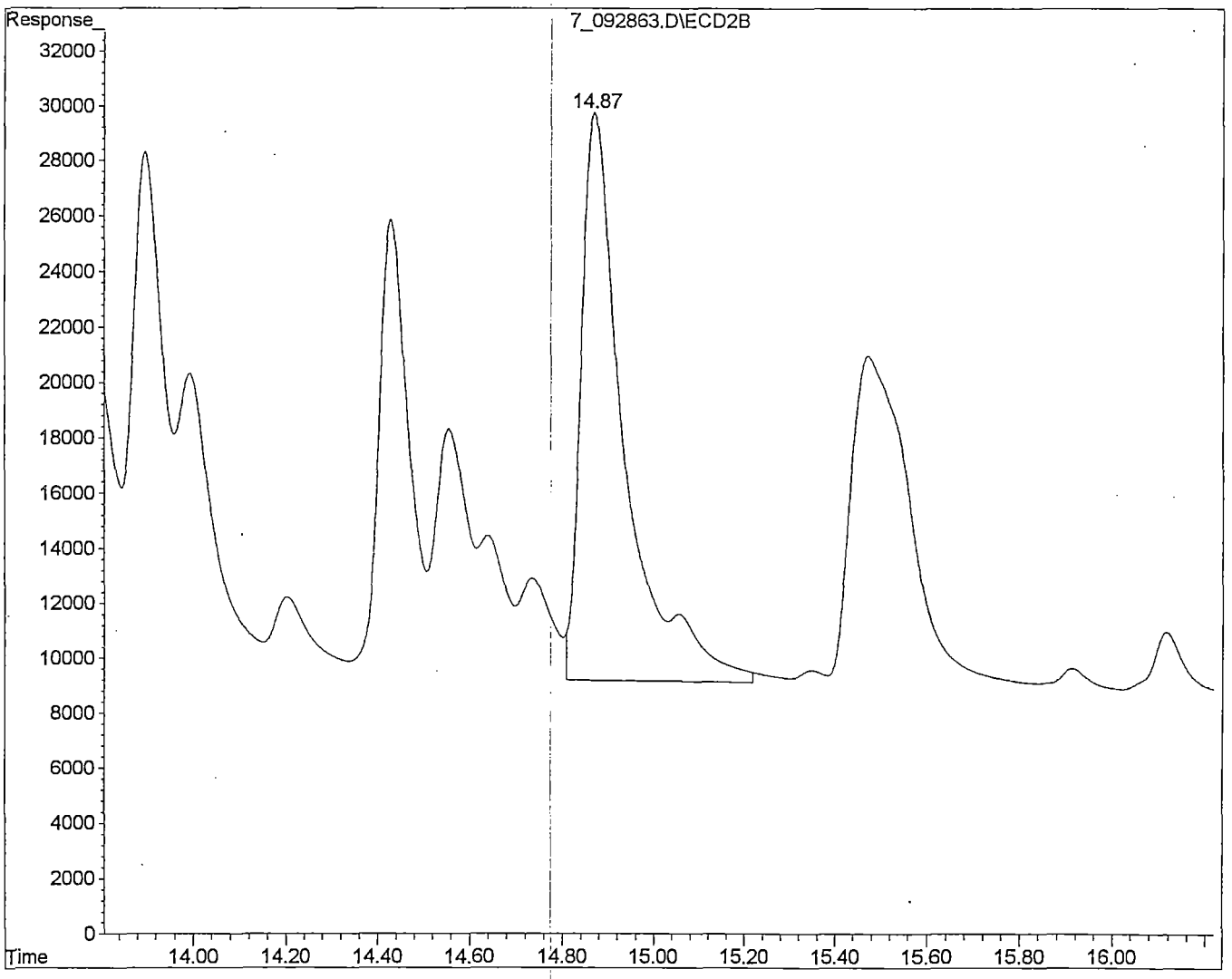
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.80	5.70	794244	1025686	20.5	20.4
22)	S DCB	16.86	17.38	280320	383467	17.3	18.6
	Target Compounds:						
2)	L1 Aroclor-1016	6.63	6.81	393978	518411	421.4	471.1
3)	L1 Aroclor-1016 {2}	7.86	8.20	591519	775383	421.0	435.8
4)	L1 Aroclor-1016 {3}	8.44	9.40	981646	529775	457.7	474.2
5)	L1 Aroclor-1016 {4}	8.86	9.55	405661	964311	415.1	371.9
6)	L1 Aroclor-1016 {5}	9.25	9.97f	562972	974023	381.4	433.9
	Sum Aroclor-1016			2935777	3761902	2096.6	2186.9
	Average Aroclor-1016					419.325	437.379
17)	L7 Aroclor-1260	12.22	12.62f	937540	1446187	379.5	398.6
18)	L7 Aroclor-1260 {2}	12.81f	13.06f	1478136	1380626	382.6	428.6
19)	L7 Aroclor-1260 {3}	13.39f	13.37f	1099300	1235757	390.8	397.3
20)	L7 Aroclor-1260 {4}	14.04	14.43f	500681	752105	372.7	406.9
21)	L7 Aroclor-1260 {5}	14.60	14.87f	1063366	1365243	361.9	403.6m
	Sum Aroclor-1260			5079024	6179918	1887.5	2035.0
	Average Aroclor-1260					377.490	407.000

09-29-01

(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\7\DATA\09_28_01\7_092863.D
Date Acquired: 29 Sep 2001 8:21
Inst: HP_07 Operator ID: SA
Name: AR1660L37I
Misc: 5-293-7
Method: F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 29 9:02 2001 Quant Results File: XPCBI24.RES



Aroclor-1260 {5} #2 14.87min area: 1365243 m

Integration Time Range: 14.81 - 15.22

F:\HPCHEM\HP\7\DATA\09_28_01\7_092863.D
Report generated: Sat Sep 29 09:04:06 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PBLKSA

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Matrix: (soil/water) SOIL Lab Sample ID: BL0908SA

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

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/28/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

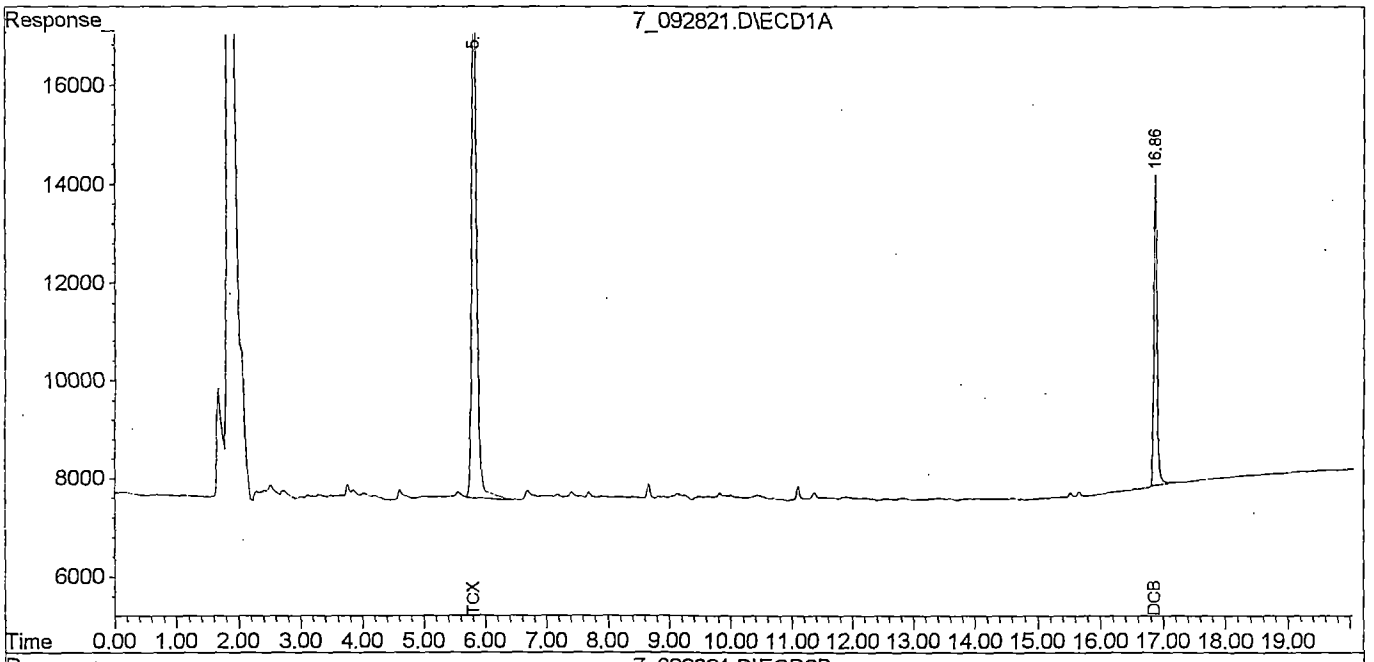
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

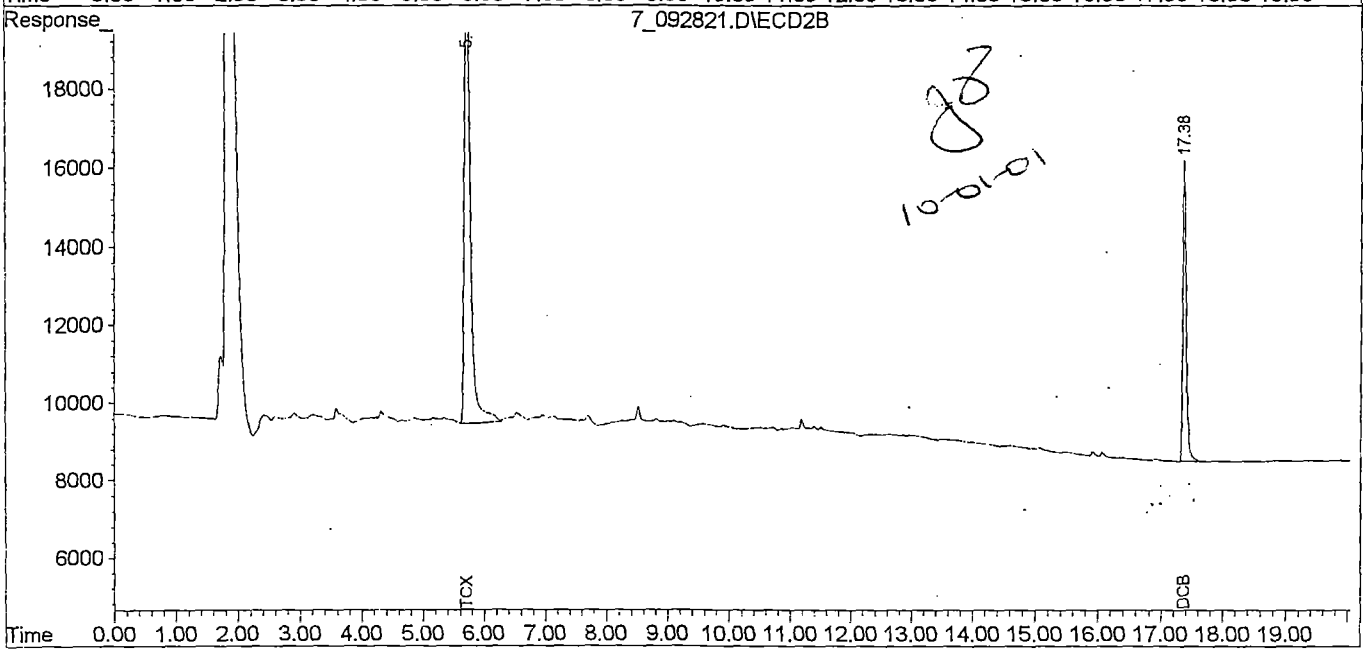
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092821.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092821.D\ECD2B.CH
Acq On : 28 Sep 2001 15:32 Operator: SA
Sample : BL0908SA *PBLKSA * Inst : HP_07
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 18:53 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





10-01-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092821.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092821.D\ECD2B.CH
Acq On : 28 Sep 2001 15:32 Operator: SA
Sample : BL0908SA *PBLKSA * Inst : HP_07
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 18:53 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.81	5.71	599633	822207	5.147	5.455
	Spiked Amount 6.667			Recovery	=	77.21%	81.83%
22)	S DCB	16.86	17.38	223700	297956	4.607	4.812
	Spiked Amount 6.667			Recovery	=	69.11%	72.18%

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.

PIBLK7C

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

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: 09/28/01

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.

PIBLK7C

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

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: 09/28/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

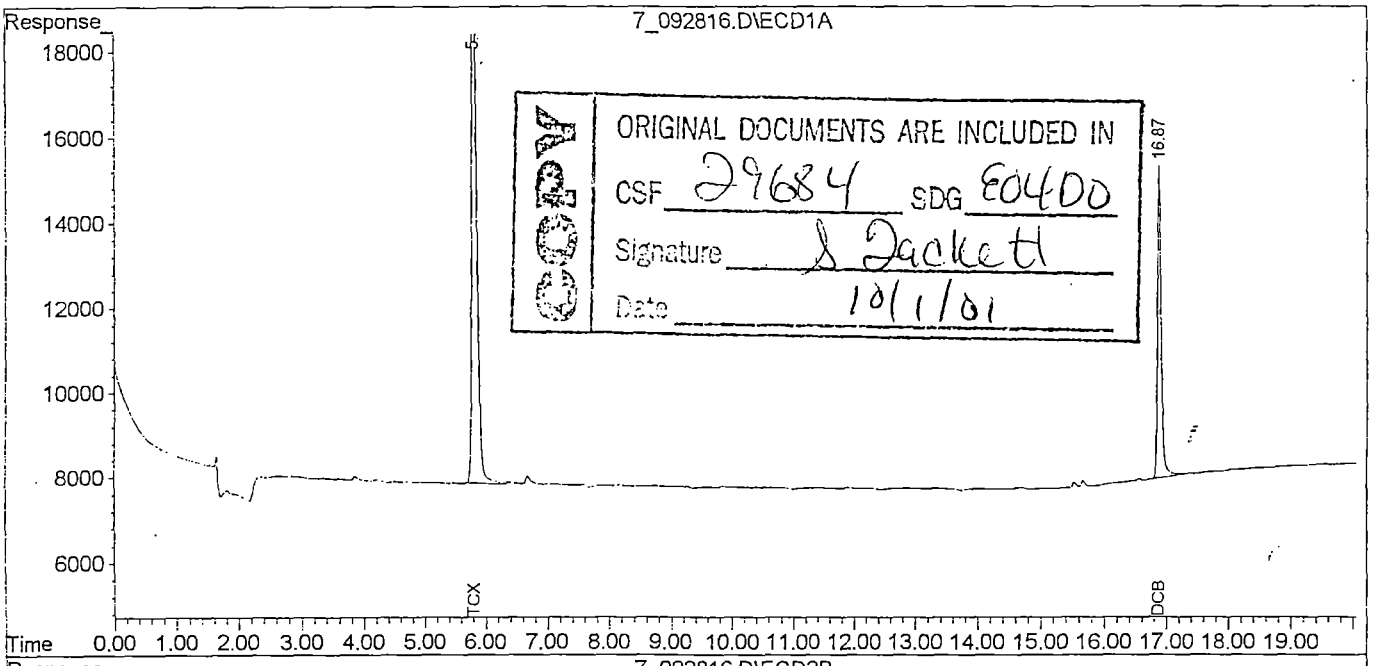
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Chromatographic Report

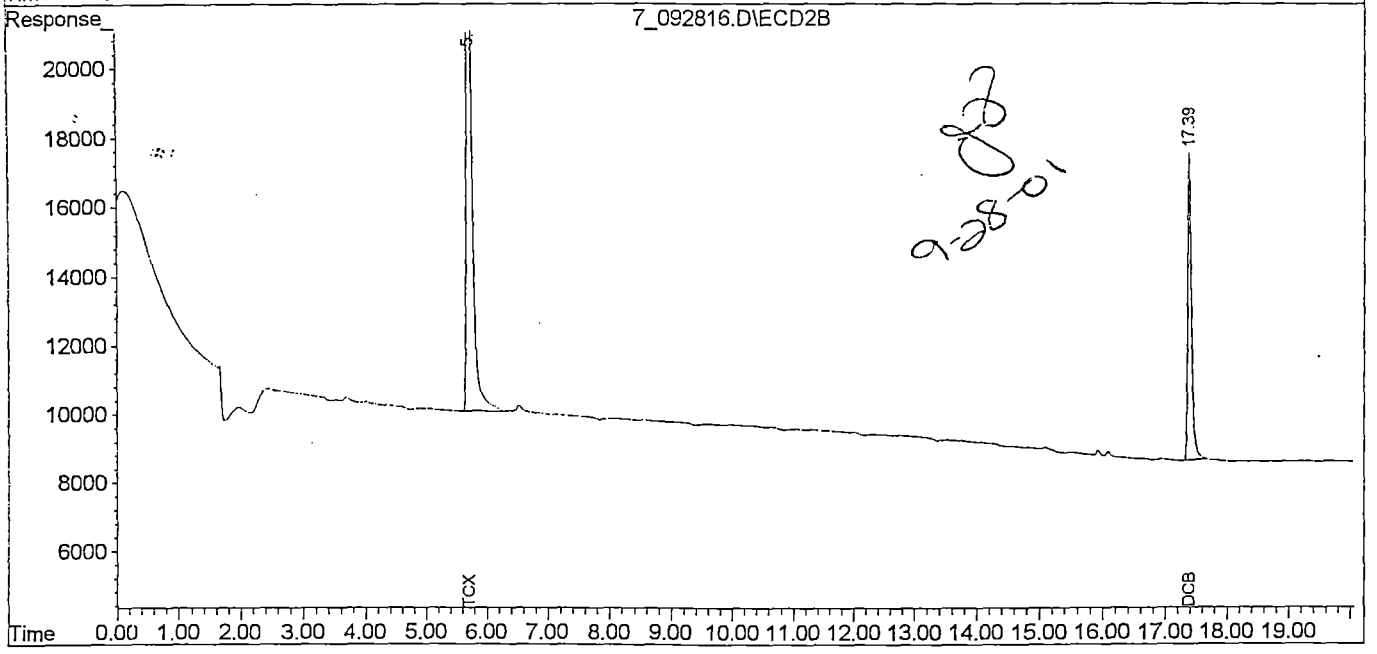
Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092816.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092816.D\ECD2B.CH
Acq On : 28 Sep 2001 13:32 Operator: SA
Sample : PIBLK7C Inst : HP_07
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 14:20 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B



ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29684 SDG E04D0
Signature S Jackett
Date 10/1/01



9-28-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092816.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092816.D\ECD2B.CH
Acq On : 28 Sep 2001 13:32 Operator: SA
Sample : PIBLK7C Inst : HP_07
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 14:20 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.81	5.72	763909	1061006	19.7	21.1
22)	S DCB	16.88	17.39	296685	381906	18.3	18.5

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.

PIBLK7D

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

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: 09/28/01

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.

PIBLK7D

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

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: 09/28/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

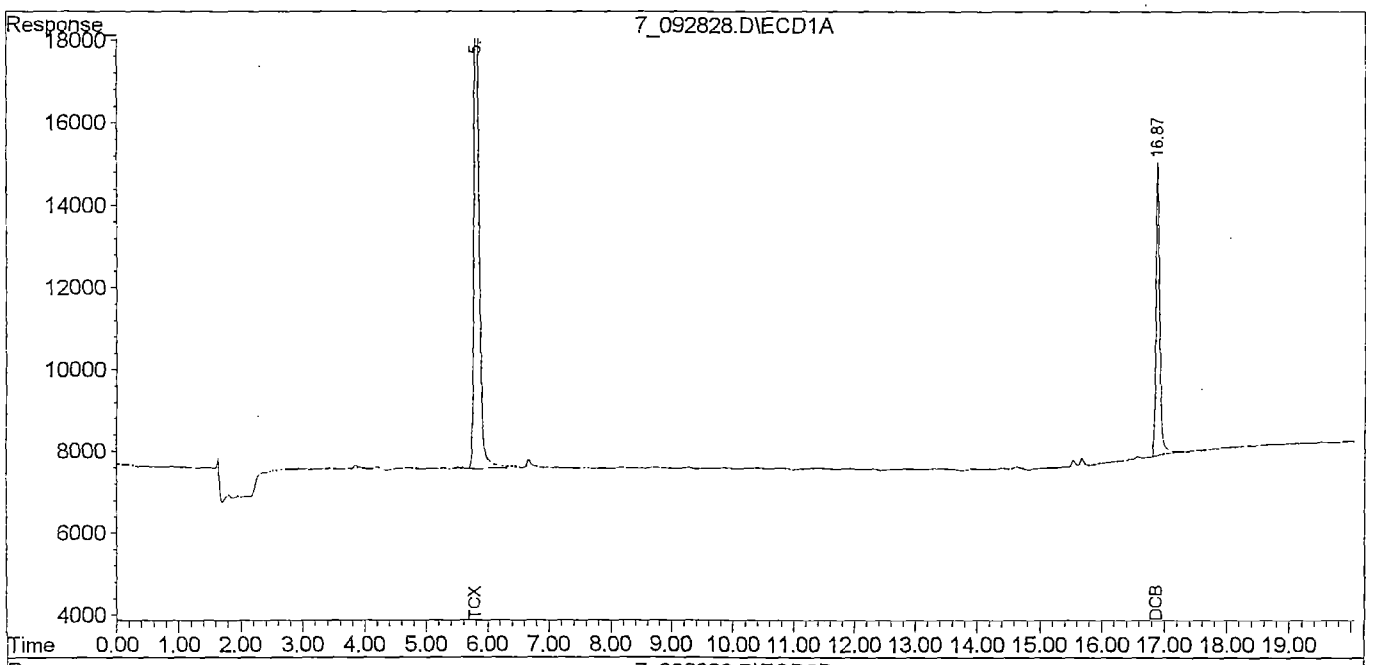
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

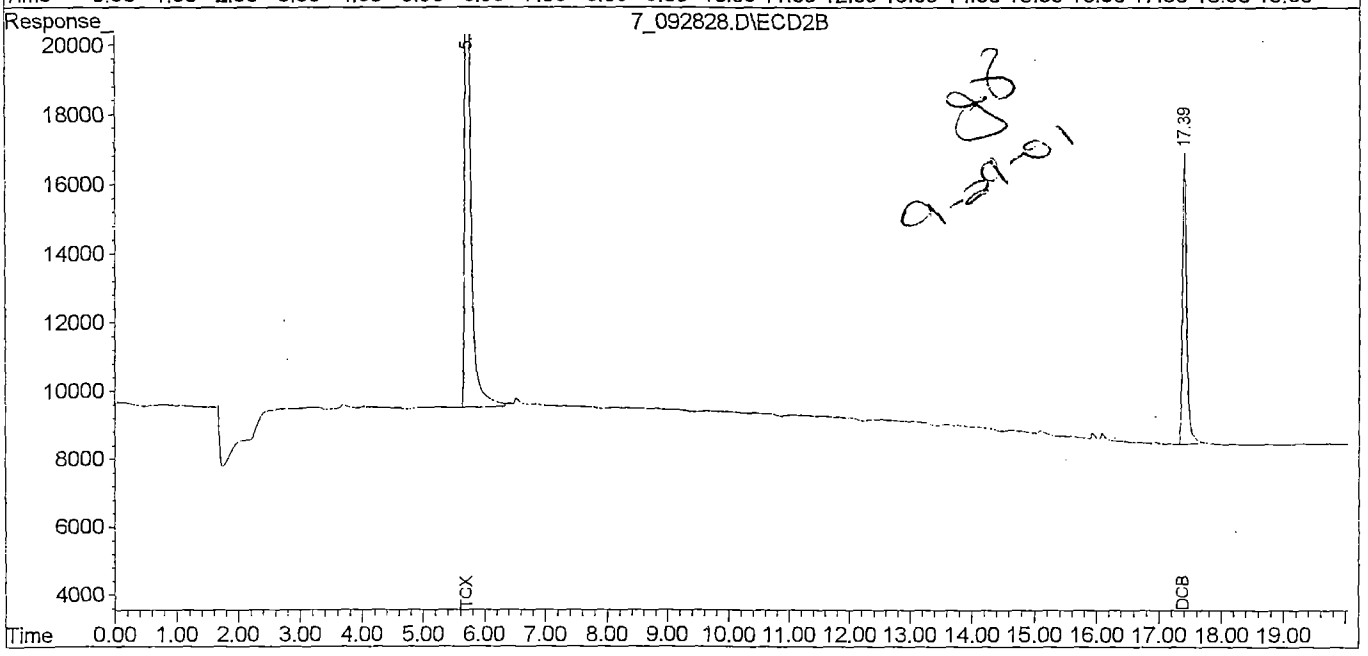
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092828.D\ECD1A.CH Vial: 28
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092828.D\ECD2B.CH
Acq On : 28 Sep 2001 18:19 Operator: SA
Sample : PIBLK7D Inst : HP_07
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 18:50 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





9-28-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092828.D\ECD1A.CH Vial: 28
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092828.D\ECD2B.CH
Acq On : 28 Sep 2001 18:19 Operator: SA
Sample : PIBLK7D Inst : HP_07
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 18:50 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.80	5.71	767918	1075512	19.8	21.4
22)	S DCB	16.87	17.39	296281	387547	18.3	18.8
	Target Compounds:						

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK7E

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

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: 09/29/01

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.

PIBLK7E

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

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: 09/29/01

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

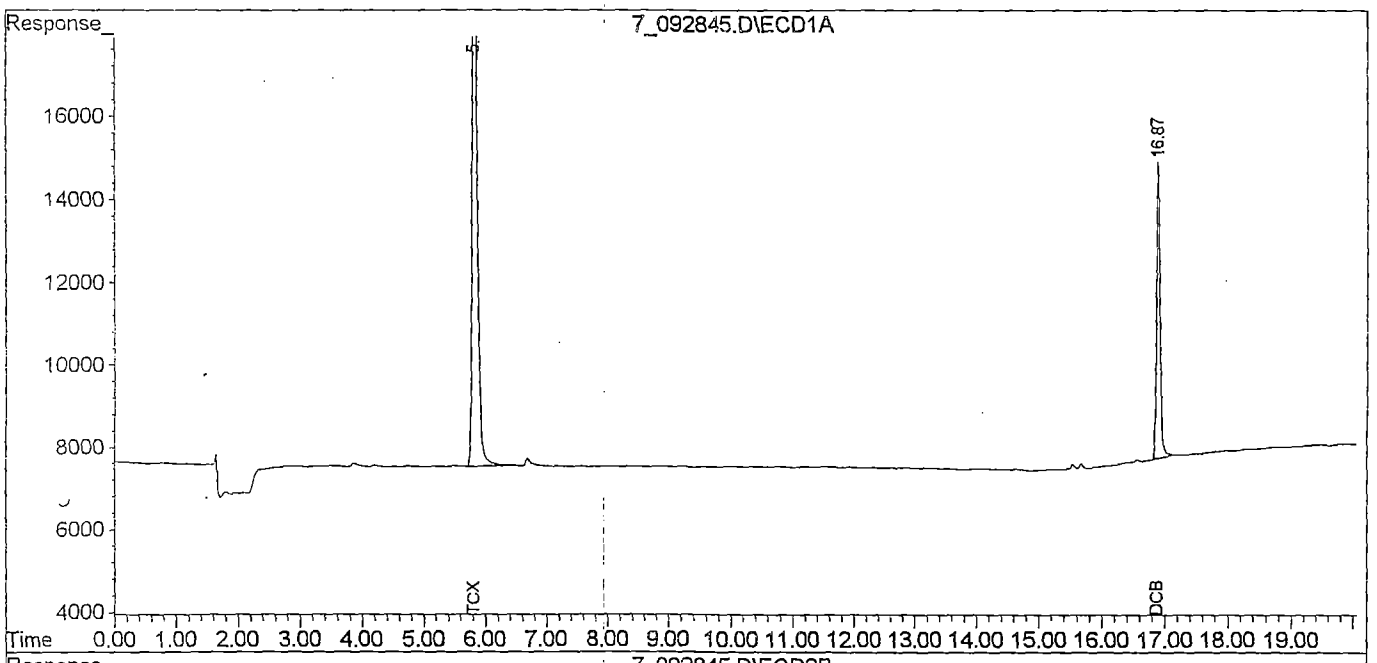
Chromatographic Report

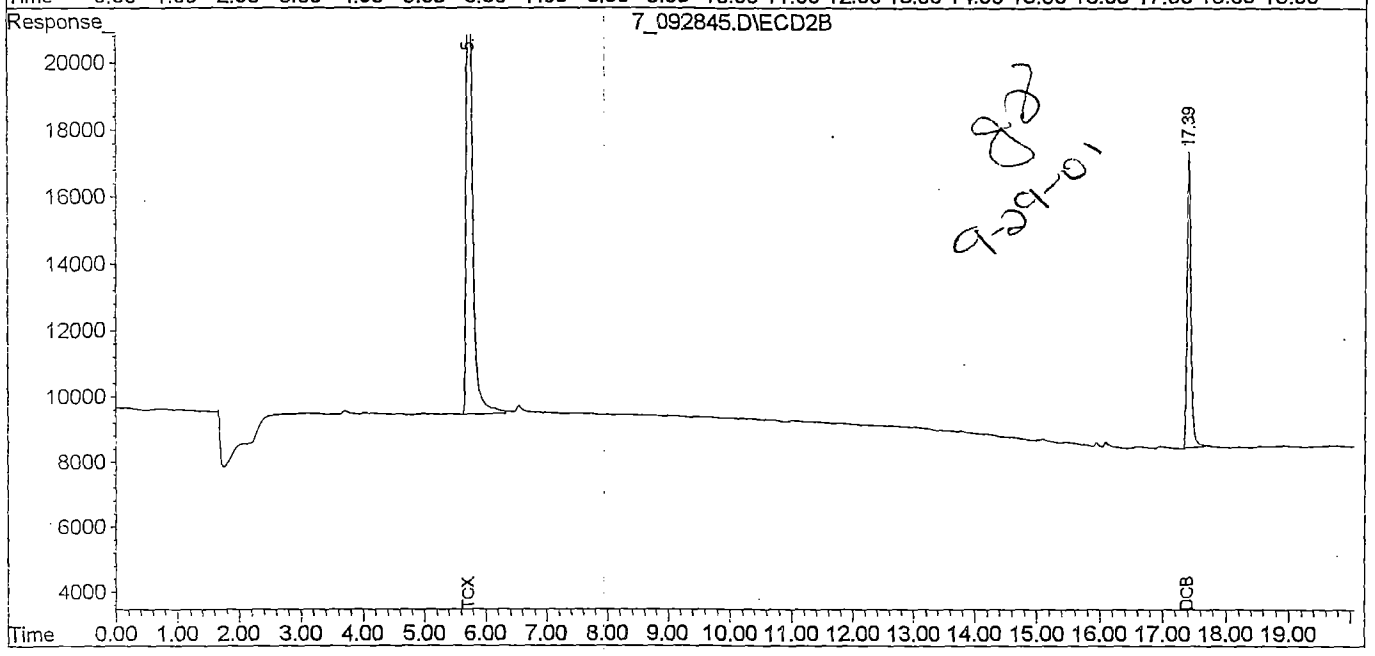
Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092845.D\ECD1A.CH Vial: 45
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092845.D\ECD2B.CH
Acq On : 29 Sep 2001 1:09 Operator: SA
Sample : PIBLK7E Inst : HP_07
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 7:48 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I
Signal #1 Info : .32 mm
Signal #1 Inst : HP_07A

Signal #2 Phase: PEST II
Signal #2 Info : .32 mm
Signal #2 Inst : HP_07B





8
9-29-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092845.D\ECD1A.CH Vial: 45
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092845.D\ECD2B.CH
Acq On : 29 Sep 2001 1:09 Operator: SA
Sample : PIBLK7E Inst : HP_07
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 7:48 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82	5.72	772950	1106317	19.9	22.0
22)	S DCB	16.88	17.39	275464	373093	17.0	18.1
	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.

PIBLK7F

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

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: 09/29/01

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.

PIBLK7F

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

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: 09/29/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

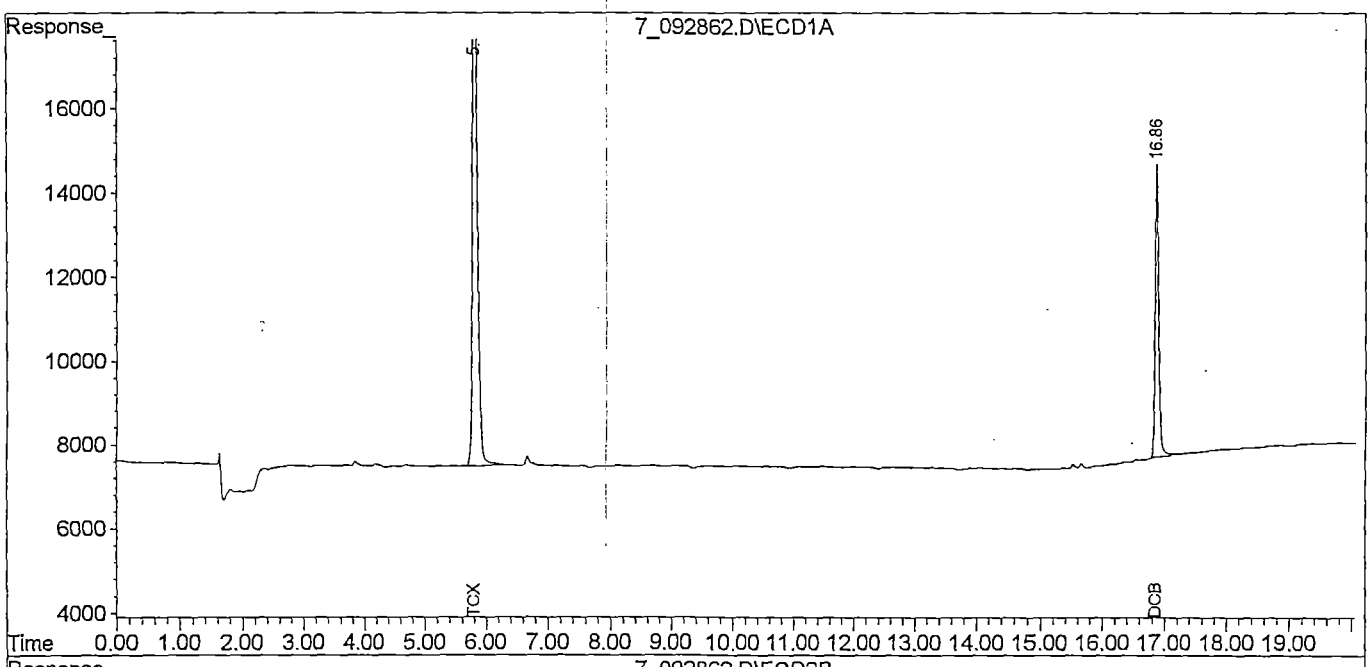
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

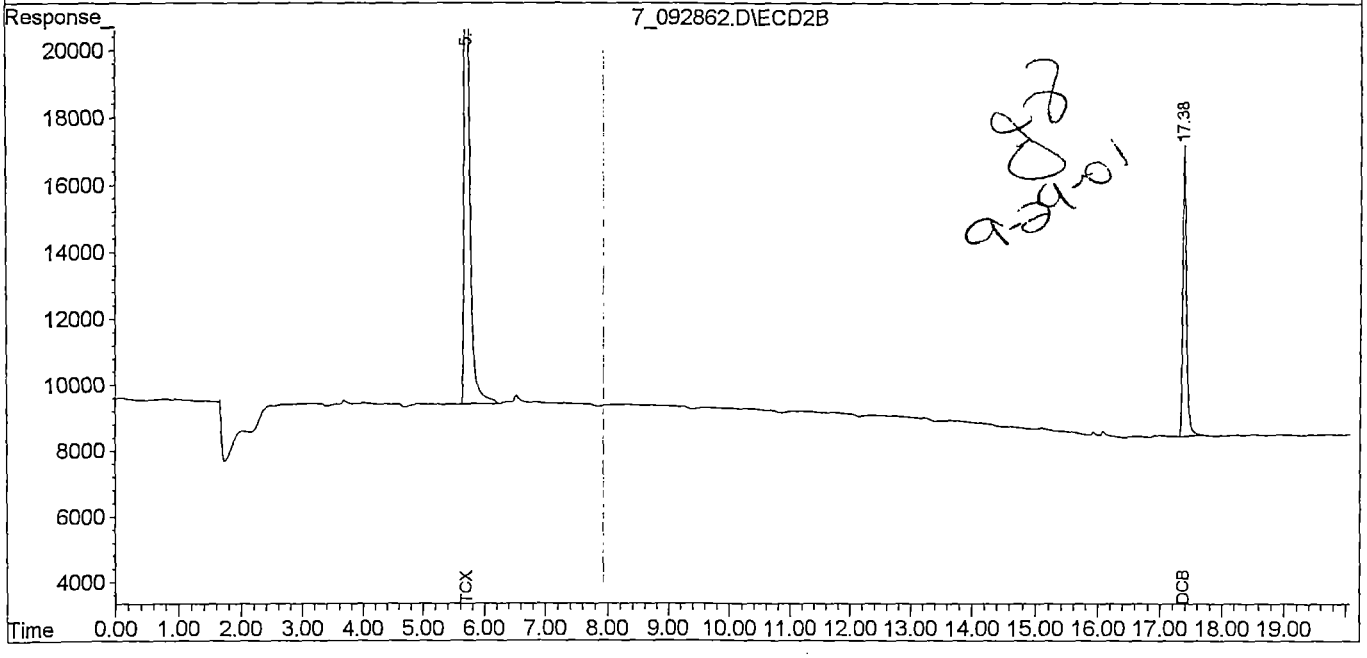
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092862.D\ECD1A.CH Vial: 62
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092862.D\ECD2B.CH
Acq On : 29 Sep 2001 7:57 Operator: SA
Sample : PIBLK7F Inst : HP_07
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 9:00 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





9-29-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092862.D\ECD1A.CH Vial: 62
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092862.D\ECD2B.CH
Acq On : 29 Sep 2001 7:57 Operator: SA
Sample : PIBLK7F Inst : HP_07
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 9:00 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I
Signal #1 Info : .32 mm
Signal #1 Inst : HP_07A

Signal #2 Phase: PEST II
Signal #2 Info : .32 mm
Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.80f	5.70f	775826	1103689	20.0	22.0
22)	S DCB	16.86	17.38	261652	359329	16.2	17.4

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.

PIBLK7Y

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

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: 09/25/01

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.

PIBLK7Y

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

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: 09/25/01

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

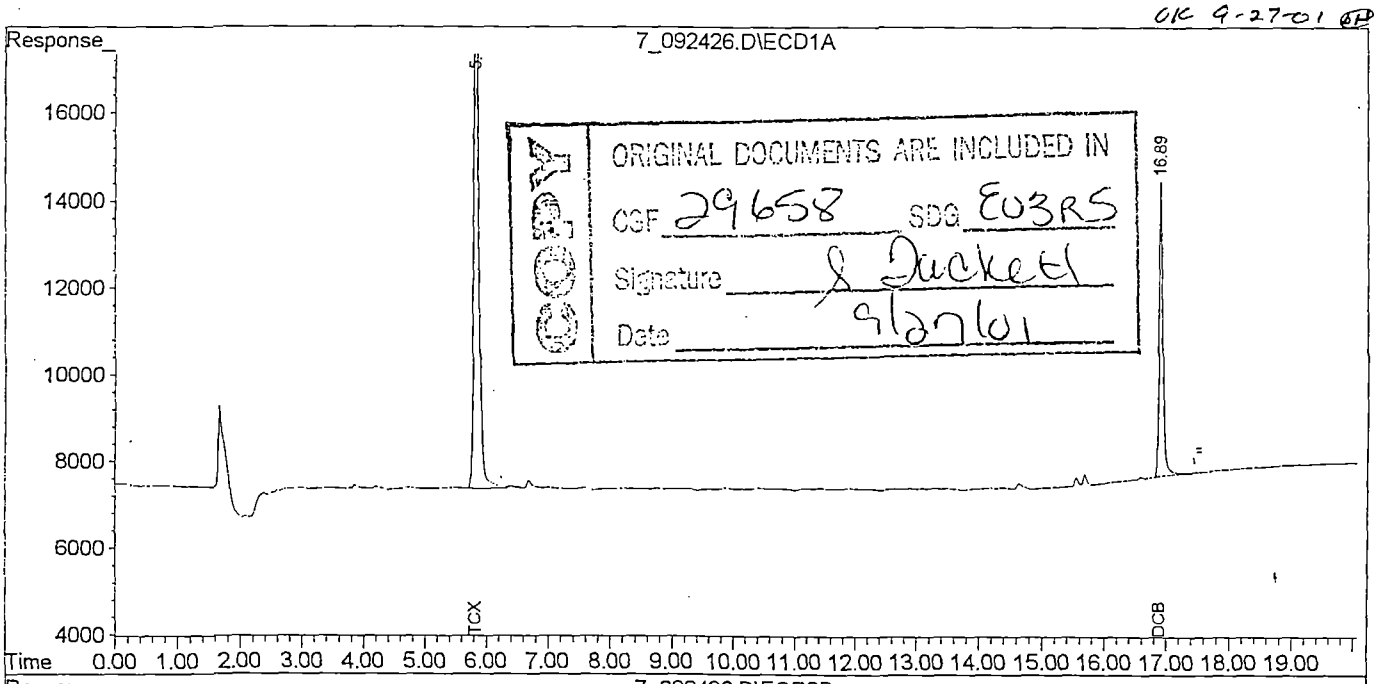
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092426.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092426.D\ECD2B.CH
Acq On : 25 Sep 2001 00:33 Operator: SA
Sample : PIBLK7Y ✓ Inst : HP_07
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 8:05 2001 Quant Results File: XPCBI24.RES

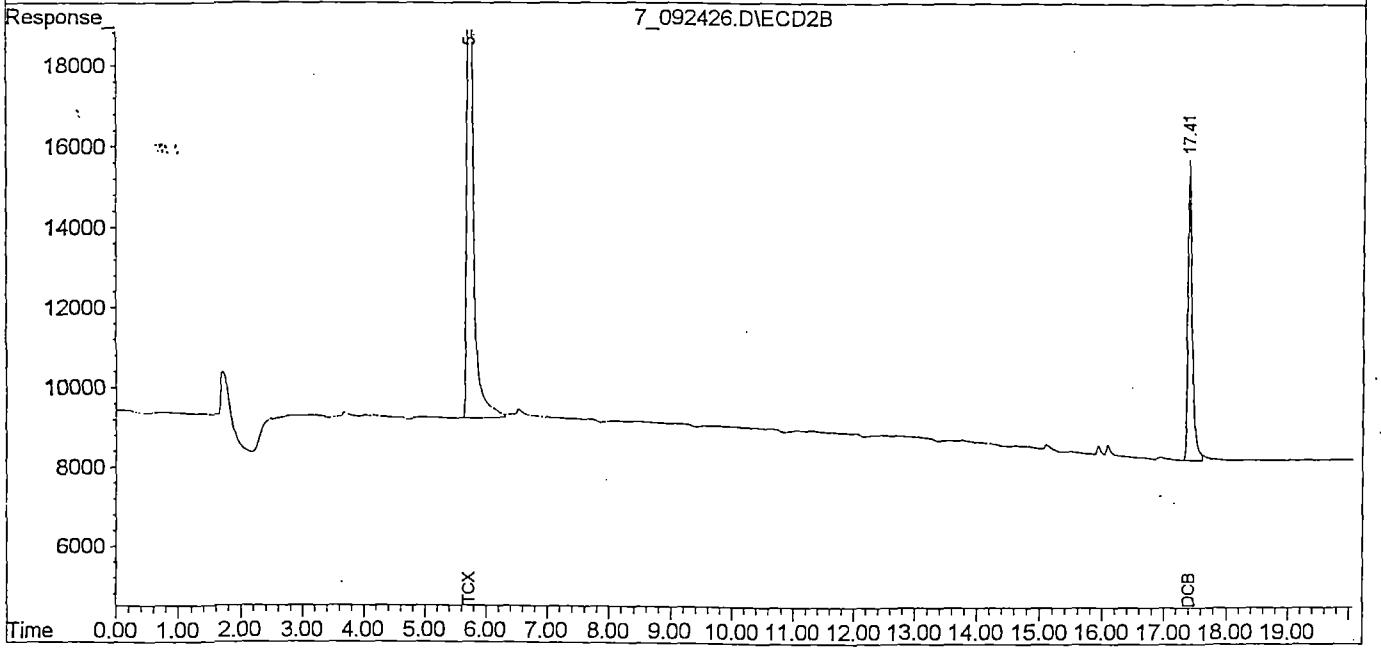
Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-27-01 [illegible]



ORIGINAL DOCUMENTS ARE INCLUDED IN
CGF 29658 SDG E03RS
Signature S Duckett
Date 9/27/01



Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092426.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\7\DATA\09_24_01\7_092426.D\ECD2B.CH
Acq On : 25 Sep 2001 00:33 Operator: SA
Sample : PIBLK7Y Inst : HP_07
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 8:05 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82	5.72	733692	1012252	16.9	16.8
22)	S DCB	16.89	17.41	288078	364042	13.0	12.5m

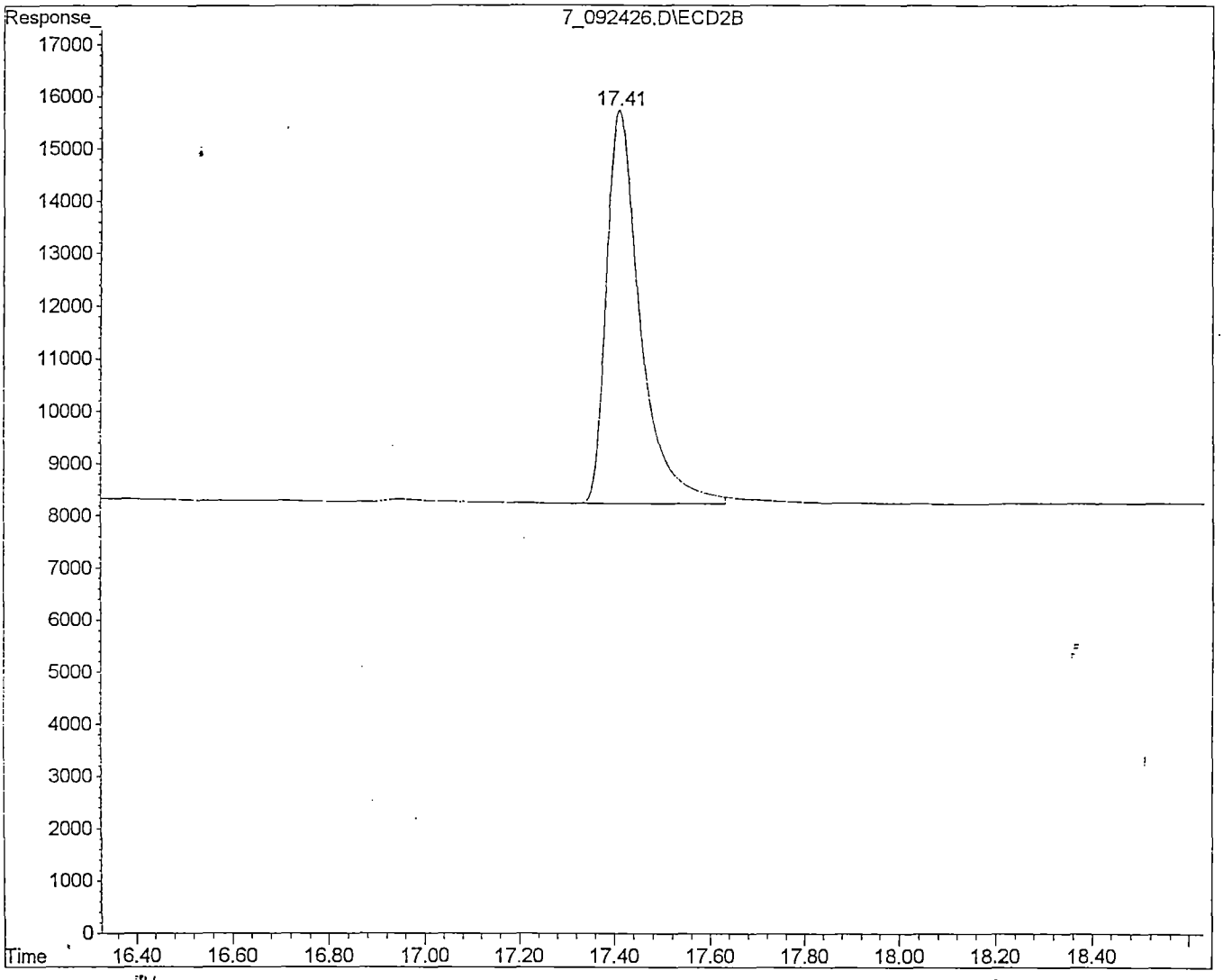
9-25-01

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\7\DATA\09_24_01\7_092426.D
Date Acquired: 25 Sep 2001 00:33
Inst: HP_07 Operator ID: SA
Name: PIBLK7Y
Misc: 5-131-7
Method: F:\HPCHEM\HP\7\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 8:05 2001 Quant Results File: XPCBI24.RES



DCB #2 17.41min area: 364042 m

Integration Time Range: 17.33 - 17.63

ok 9-27-01

F:\HPCHEM\HP\7\DATA\09_24_01\7_092426.D
Report generated: Tue Sep 25 08:13:11 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ELCS1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Matrix: (soil/water) SOIL Lab Sample ID: LC0908SA

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

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/28/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

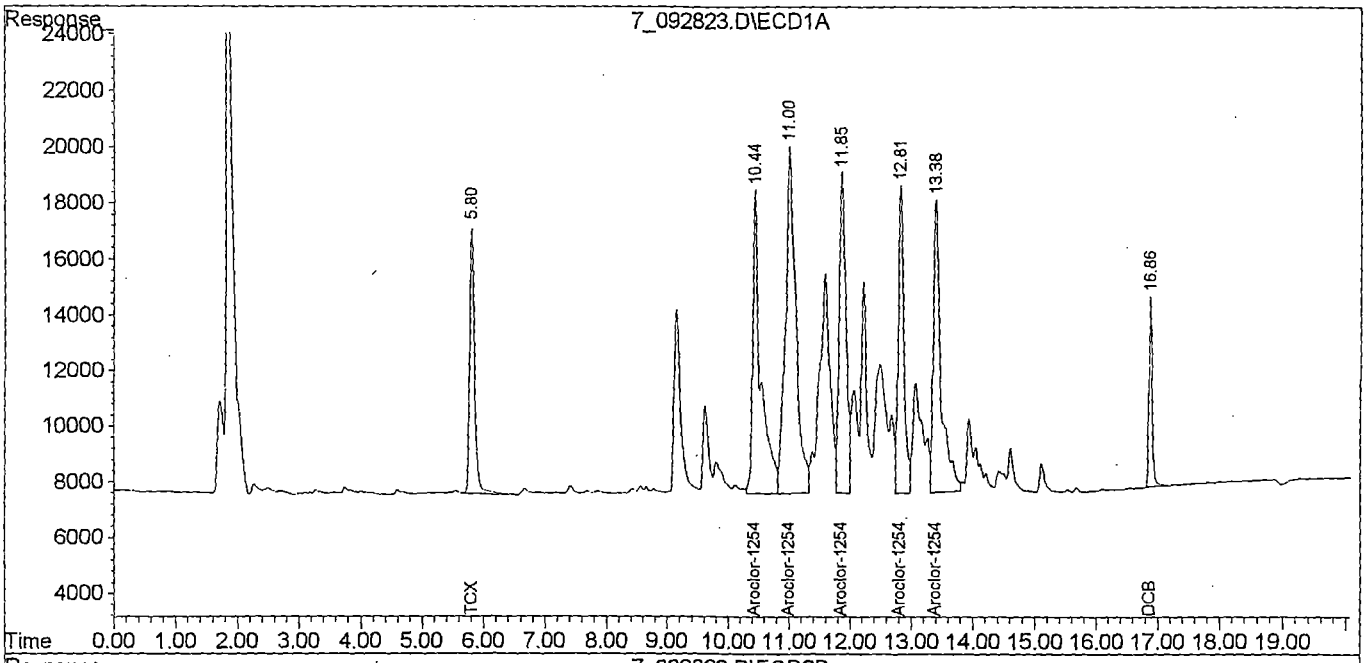
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	93	
11096-82-5	Aroclor-1260	33	U
Surrogate amount spiked		6.67	

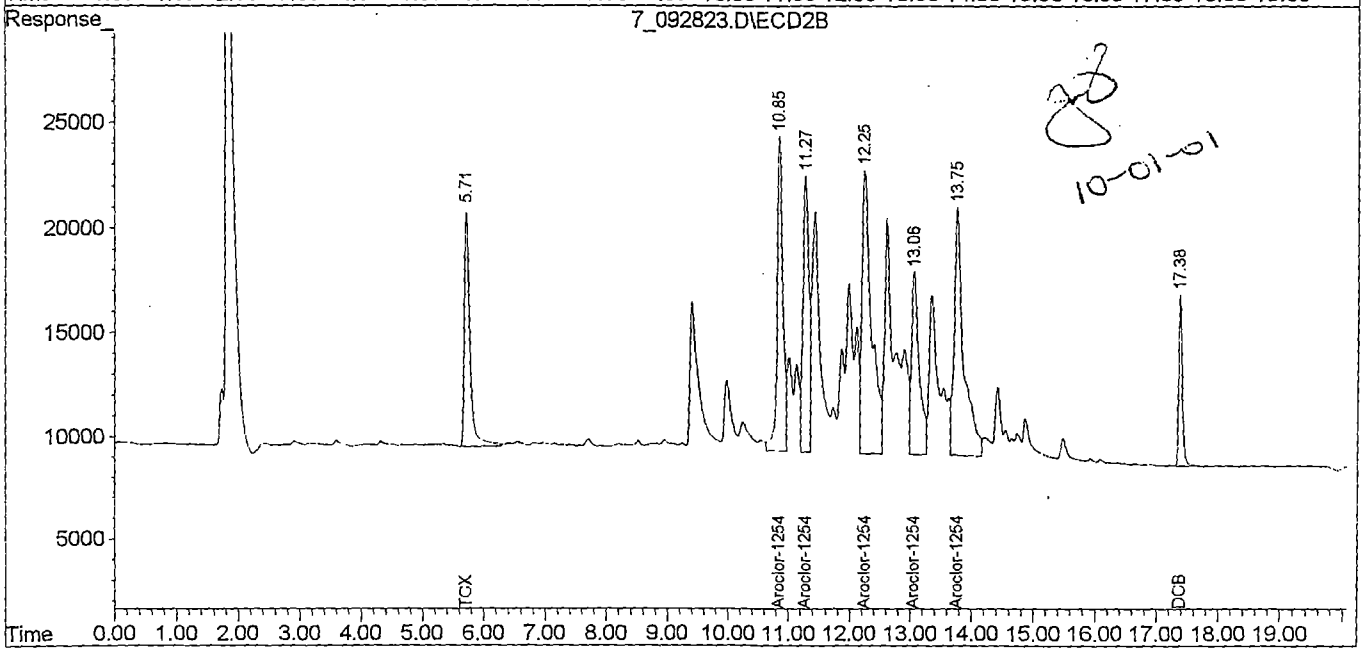
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092823.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092823.D\ECD2B.CH
Acq On : 28 Sep 2001 16:20 Operator: SA
Sample : LC0908SA *ELCS1 * Inst : HP_07
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 18:54 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





10-01-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092823.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092823.D\ECD2B.CH
Acq On : 28 Sep 2001 16:20 Operator: SA
Sample : LC0908SA *ELCS1 * Inst : HP_07
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 18:54 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

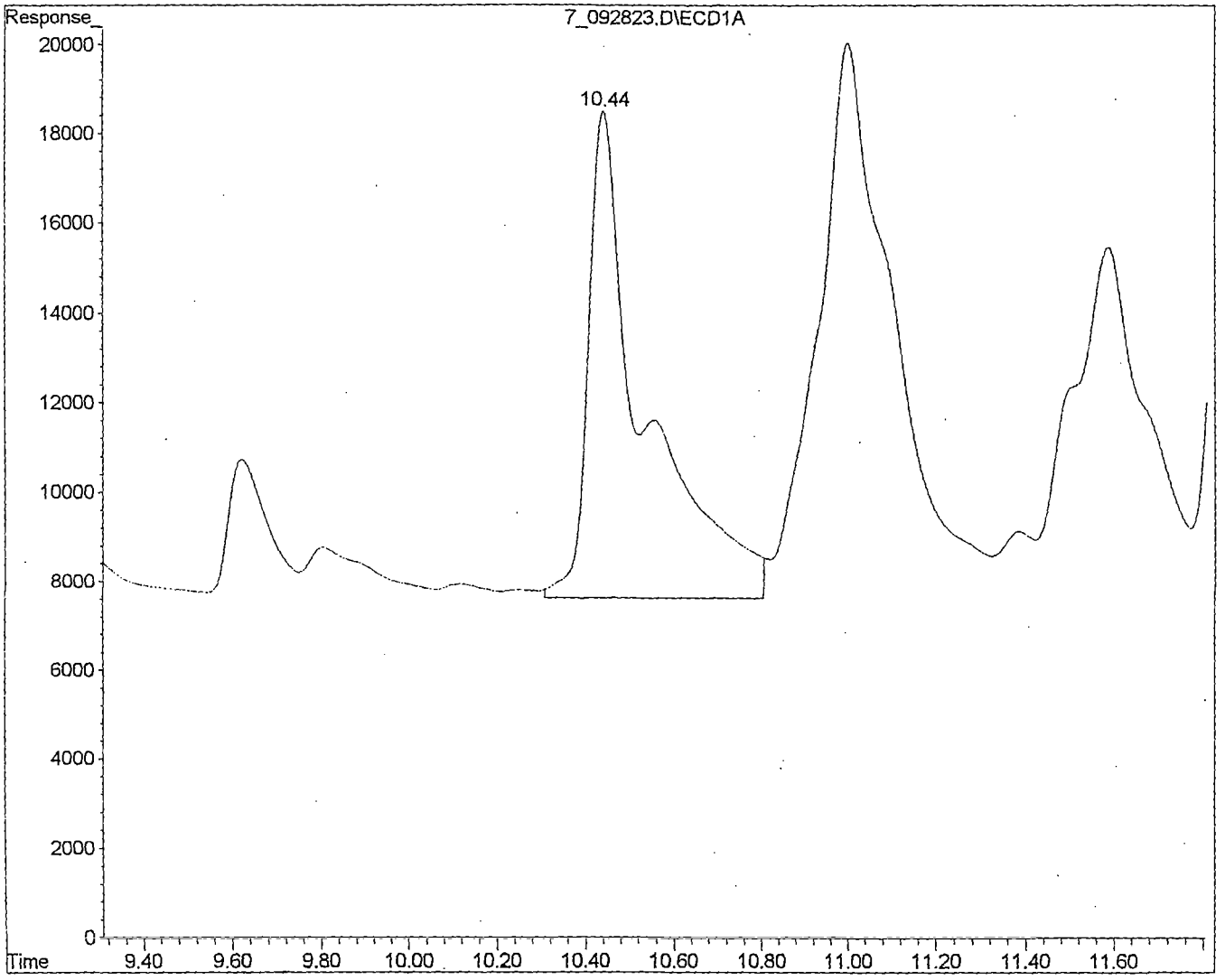
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.80	5.71	529980	730635	4.549	4.848
	Spiked Amount 6.667			Recovery	=	68.24%	72.72%
22)	S DCB	16.86	17.38f	243836	324896	5.022	5.248
	Spiked Amount 6.667			Recovery	=	75.33%	78.72%
	Target Compounds:						
12)	L6 Aroclor-1254	10.44	10.85	961657	983983	94.8m	100.0
13)	L6 Aroclor-1254 {2}	11.00	11.27	1465745	859304	95.2	103.8
14)	L6 Aroclor-1254 {3}	11.85	12.25f	895758	1507690	93.4	93.6m
15)	L6 Aroclor-1254 {4}	12.81	13.06	705088	763719	93.2	97.1
16)	L6 Aroclor-1254 {5}	13.38	13.76	917071	1285922	89.7m	89.9
	Sum Aroclor-1254			4945319	5400618	466.3	484.4
	Average Aroclor-1254					93.265	96.882

09-26-9

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_28_01\7_092823.D
Date Acquired: 28 Sep 2001 16:20
Inst: HP_07 Operator ID: SA
Name: LC0908SA *ELCS1 *
Misc: **30G/5.0ML*0
Method: F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 28 18:54 2001 Quant Results File: XPCBI24.RES



09-28-1

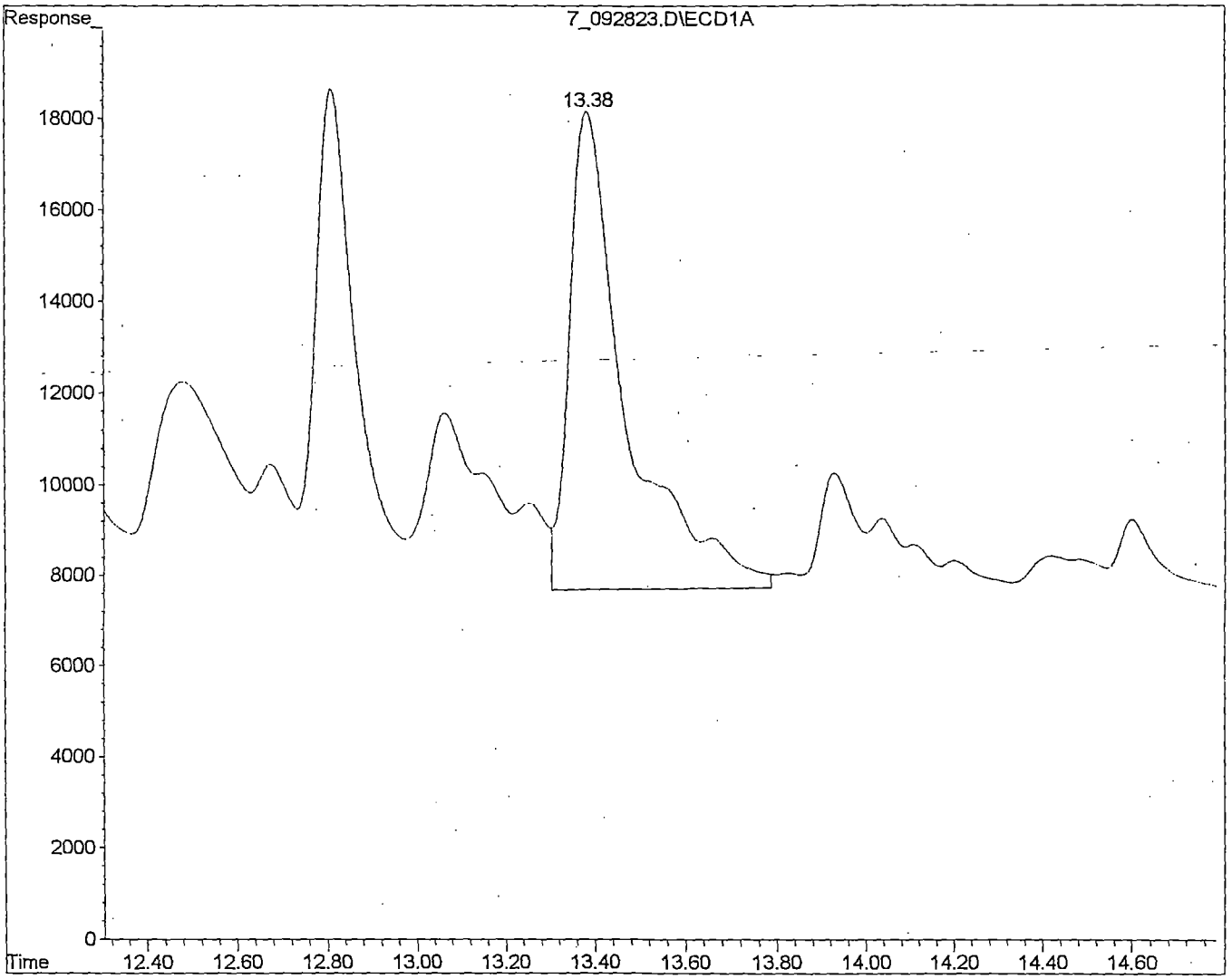
Aroclor-1254 10.44min area: 961657 m

Integration Time Range: 10.31 - 10.81

F:\HPCHEM\HP\7\DATA\09_28_01\7_092823.D
Report generated: Fri Sep 28 19:03:55 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_28_01\7_092823.D
Date Acquired: 28 Sep 2001 16:20
Inst: HP_07 Operator ID: SA
Name: LC0908SA *ELCS1 *
Misc: **30G/5.0ML*0
Method: F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 28 18:54 2001 Quant Results File: XPCBI24.RES



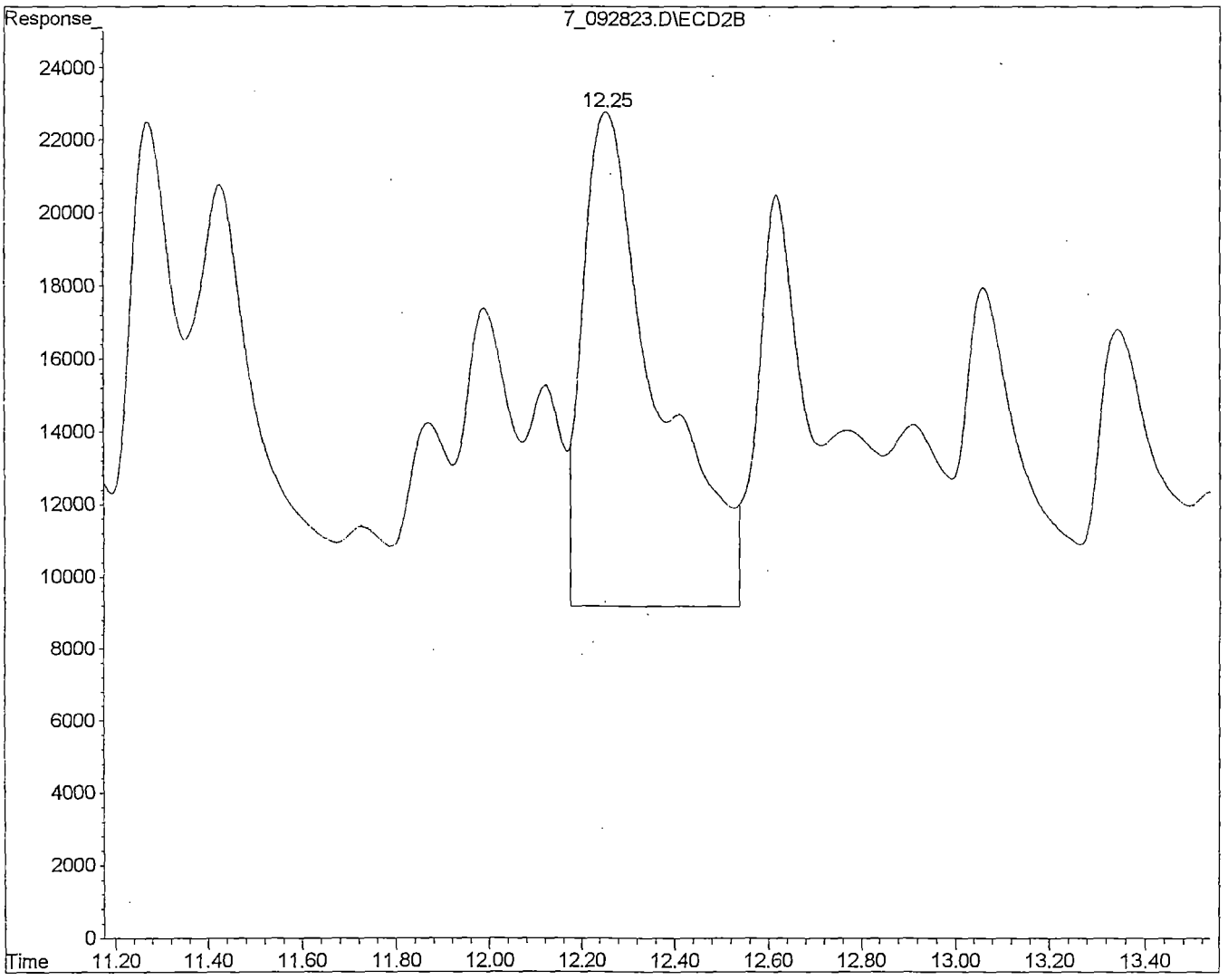
Aroclor-1254 {5} 13.38min area: 917071 m

Integration Time Range: 13.30 - 13.78

F:\HPCHEM\HP\7\DATA\09_28_01\7_092823.D
Report generated: Fri Sep 28 19:03:56 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_28_01\7_092823.D
Date Acquired: 28 Sep 2001 16:20
Inst: HP_07 Operator ID: SA
Name: LC0908SA *ELCS1 *
Misc: **30G/5.0ML*0
Method: F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 28 18:54 2001 Quant Results File: XPCBI24.RES



CD 9-28-01

Aroclor-1254 {3} #2 12.25min area: 1507690 m

Integration Time Range: 12.17 - 12.54

F:\HPCHEM\HP\7\DATA\09_28_01\7_092823.D
Report generated: Fri Sep 28 19:03:57 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ELCS2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Matrix: (soil/water) SOIL Lab Sample ID: LD0908SA

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

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/28/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

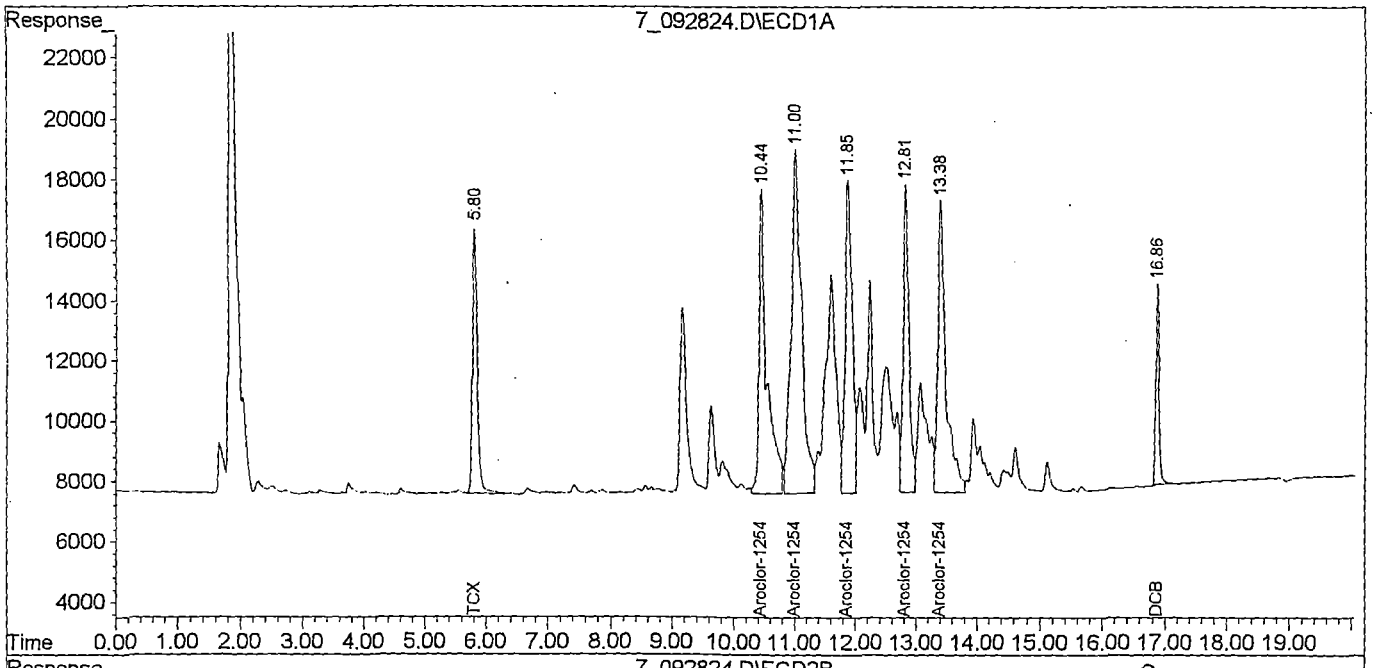
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	88	
11096-82-5	Aroclor-1260	33	U
Surrogate amount spiked		6.67	

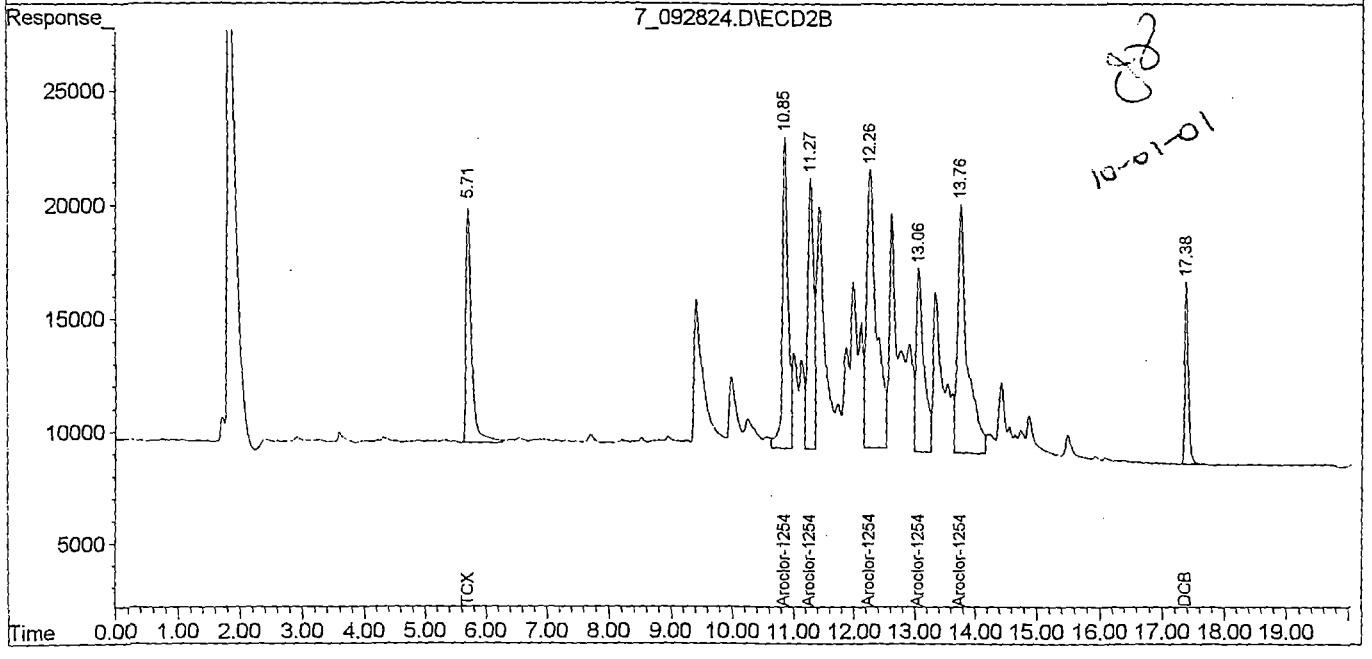
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092824.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092824.D\ECD2B.CH
Acq On : 28 Sep 2001 16:44 Operator: SA
Sample : LD0908SA *ELCS2 * Inst : HP_07
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 18:55 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





10-01-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092824.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092824.D\ECD2B.CH
Acq On : 28 Sep 2001 16:44 Operator: SA
Sample : LD0908SA *ELCS2 * Inst : HP_07
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 18:55 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

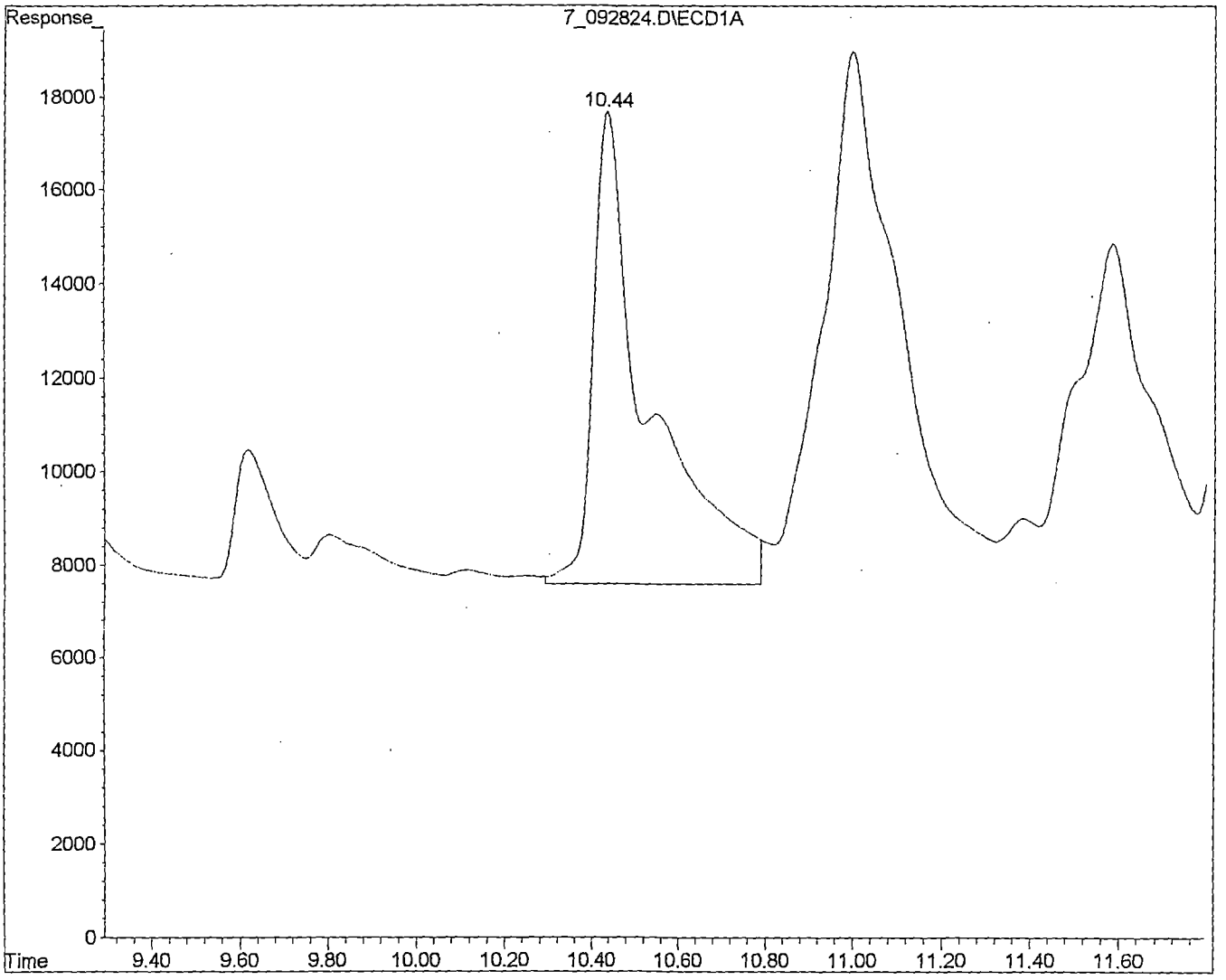
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.80	5.71	481483	660022	4.133	4.379
	Spiked Amount 6.667			Recovery	=	62.00%	65.69%
22)	S DCB	16.86	17.38	236091	317824	4.862	5.133
	Spiked Amount 6.667			Recovery	=	72.93%	77.00%
	Target Compounds:						
12)	L6 Aroclor-1254	10.44	10.85	887268	903400	87.5m	91.8
13)	L6 Aroclor-1254 {2}	11.00	11.27	1370278	791113	89.0	95.5
14)	L6 Aroclor-1254 {3}	11.86	12.26	834359	1398689	87.0	86.8m
15)	L6 Aroclor-1254 {4}	12.81	13.06	667028	719023	88.1	91.4
16)	L6 Aroclor-1254 {5}	13.38	13.76	879880	1212444	86.0	84.8
	Sum Aroclor-1254			4638812	5024669	437.7	450.4
	Average Aroclor-1254					87.543	90.079

cd 9.28.1

(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\7\DATA\09_28_01\7_092824.D
Date Acquired: 28 Sep 2001 16:44
Inst: HP_07 Operator ID: SA
Name: LD0908SA *ELCS2 *
Misc: **30G/5.0ML*0
Method: F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 28 18:55 2001 Quant Results File: XPCBI24.RES



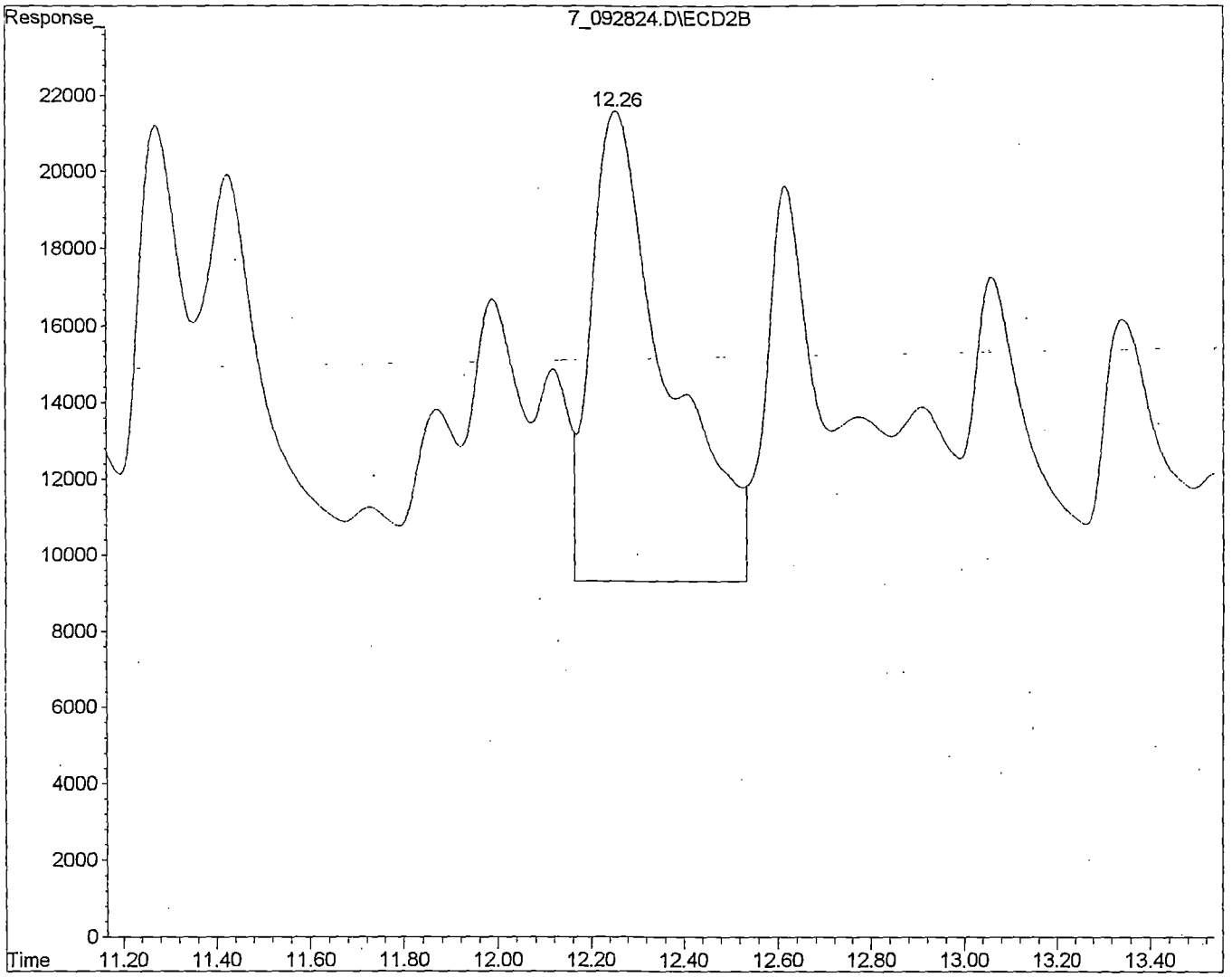
Aroclor-1254 10.44min area: 887268 m

Integration Time Range: 10.29 - 10.79

F:\HPCHEM\HP\7\DATA\09_28_01\7_092824.D
Report generated: Fri Sep 28 19:03:58 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_28_01\7_092824.D
Date Acquired: 28 Sep 2001 16:44
Inst: HP_07 Operator ID: SA
Name: LD0908SA *ELCS2 *
Misc: **30G/5.0ML*0
Method: F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 28 18:55 2001 Quant Results File: XPCBI24.RES



Aroclor-1254 {3} #2 12.26min area: 1398689 m

Integration Time Range: 12.17 - 12.54

F:\HPCHEM\HP\7\DATA\09_28_01\7_092824.D
Report generated: Fri Sep 28 19:03:59 2001

242A

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E04F1MS

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Matrix: (soil/water) SOIL Lab Sample ID: 47452.02MS

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

% Moisture: 59 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/28/01

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	79	U
11104-28-2	Aroclor-1221	79	U
11141-16-5	Aroclor-1232	79	U
53469-21-9	Aroclor-1242	79	U
12672-29-6	Aroclor-1248	79	U
11097-69-1	Aroclor-1254	170	
11096-82-5	Aroclor-1260	79	U
	Surrogate amount spiked	15.89	

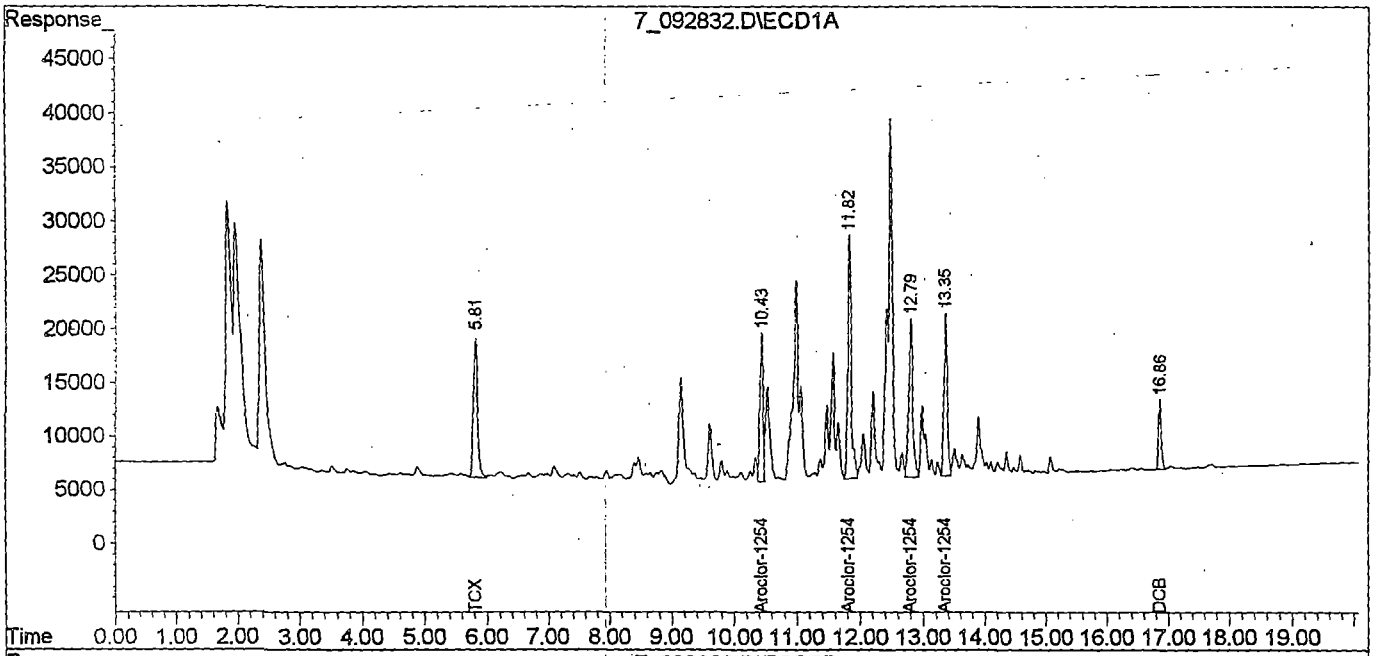
Chromatographic Report

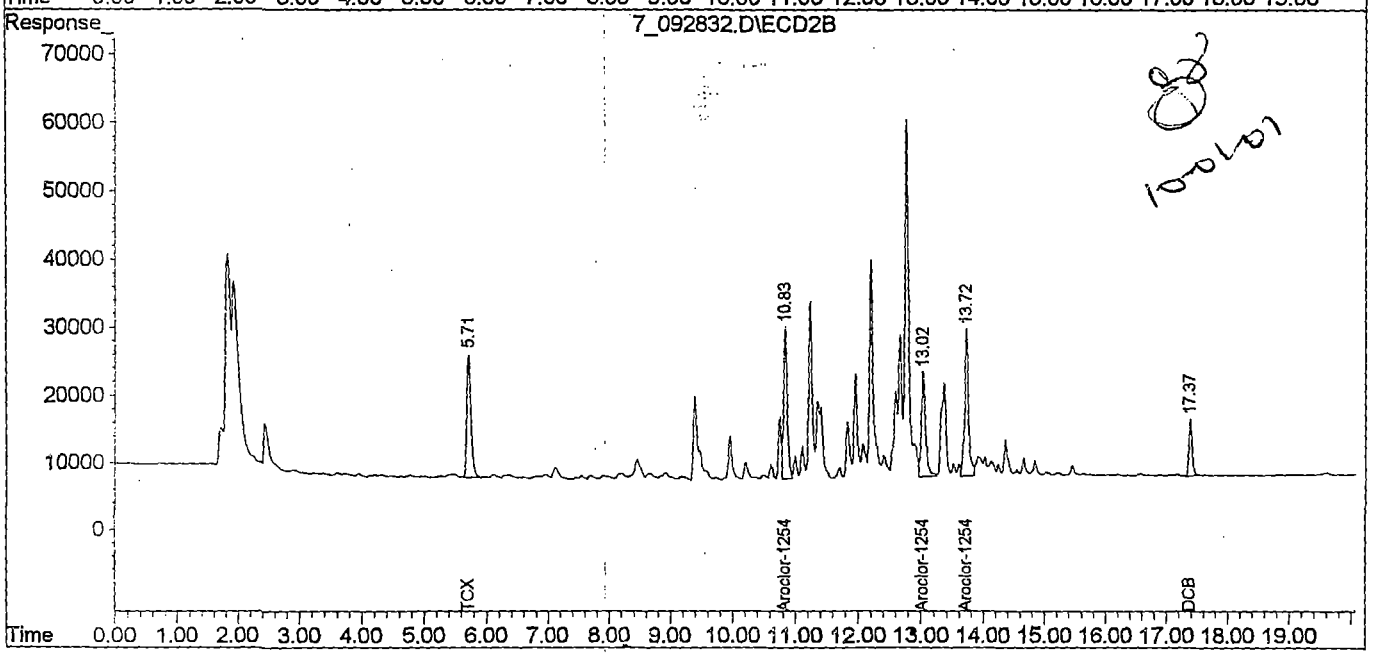
Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092832.D\ECD1A.CH Vial: 32
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092832.D\ECD2B.CH
Acq On : 28 Sep 2001 19:56 Operator: SA
Sample : 47452.02MS *E04F1MS * Inst : HP_07
Misc : *EPA*30.7G/5.0ML*59 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:03 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I
Signal #1 Info : .32 mm
Signal #1 Inst : HP_07A

Signal #2 Phase: PEST II
Signal #2 Info : .32 mm
Signal #2 Inst : HP_07B





10-01-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092832.D\ECD1A.CH Vial: 32
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092832.D\ECD2B.CH
Acq On : 28 Sep 2001 19:56 Operator: SA
Sample : 47452.02MS *E04F1MS * Inst : HP_07
Misc : *EPA*30.7G/5.0ML*59 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:03 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.81	5.71	610118	860695	12.5	13.6	
	Spiked Amount 15.889			Recovery	=	78.67%	85.59%	
22)	S DCB	16.86f	17.37f	198212	302621	9.729	11.6	
	Spiked Amount 15.889			Recovery	=	61.23%	73.00%	
	Target Compounds:							
12)	L6 Aroclor-1254	10.43	10.83f	502341	901939	118.0	218.6	#
14)	L6 Aroclor-1254 {3}	11.82f	0.00	855464	0	212.7	N.D.	#
15)	L6 Aroclor-1254 {4}	12.79f	13.02f	642308	732044	202.3	221.8	
16)	L6 Aroclor-1254 {5}	13.35f	13.72f	590153	925177	137.5	154.2	
	Sum Aroclor-1254			2590266	2559160	670.6	594.5	
	Average Aroclor-1254					167.644	198.183	

(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.

E04F1MSD

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04F1

Matrix: (soil/water) SOIL Lab Sample ID: 47452.03MSD

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

% Moisture: 59 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/28/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

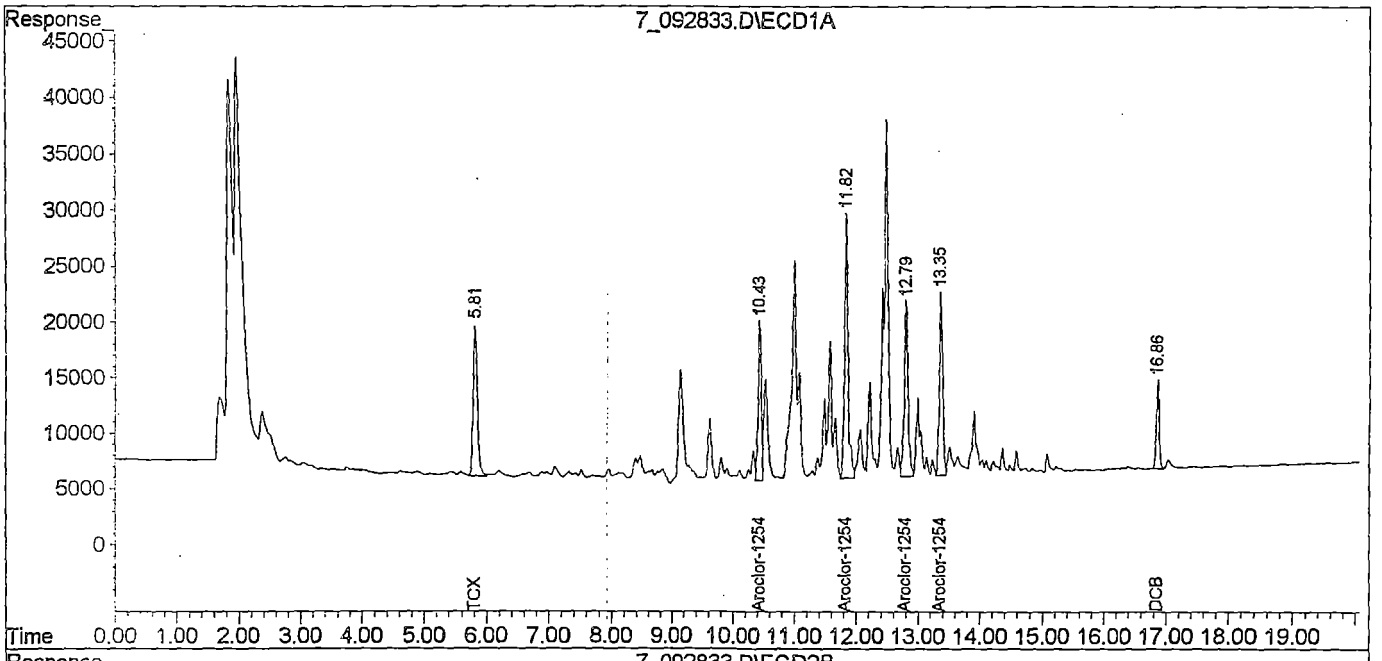
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	80	U
11104-28-2	Aroclor-1221	80	U
11141-16-5	Aroclor-1232	80	U
53469-21-9	Aroclor-1242	80	U
12672-29-6	Aroclor-1248	80	U
11097-69-1	Aroclor-1254	180	
11096-82-5	Aroclor-1260	80	U
	Surrogate amount spiked	16.16	

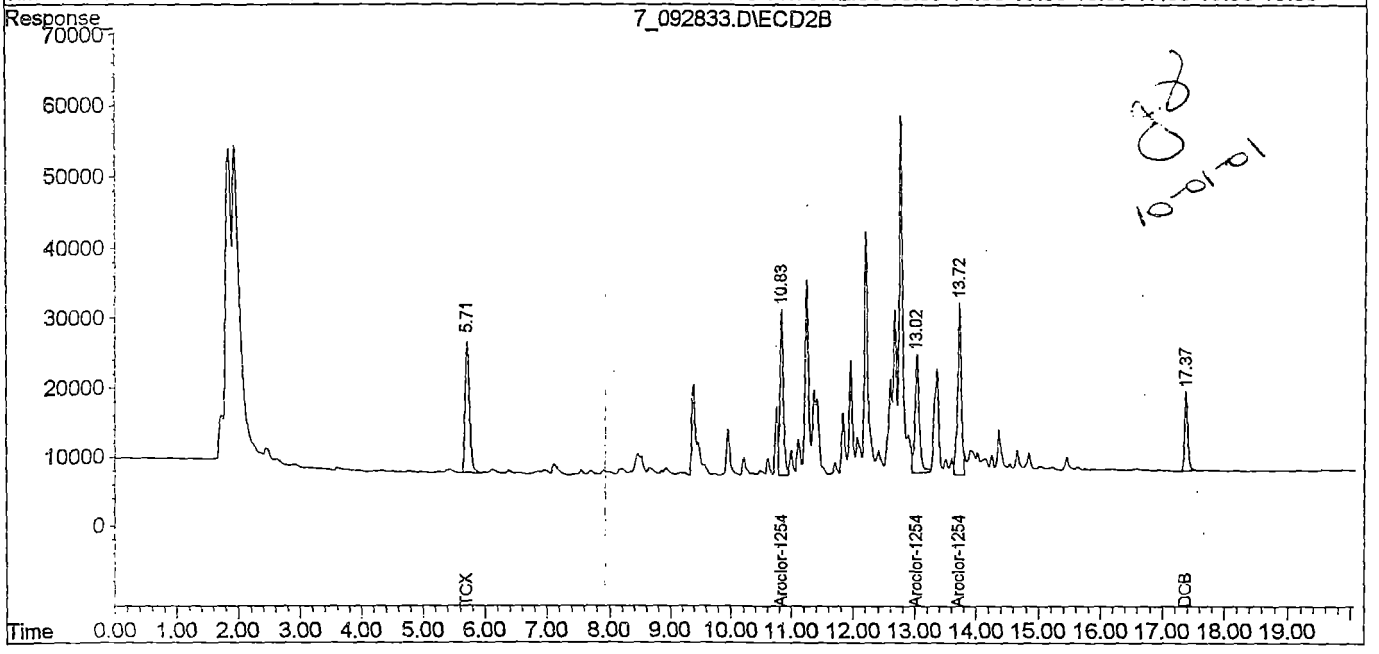
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092833.D\ECD1A.CH Vial: 33
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092833.D\ECD2B.CH
Acq On : 28 Sep 2001 20:20 Operator: SA
Sample : 47452.03MSD *E04F1MSD * Inst : HP_07
Misc : *EPA*30.2G/5.0ML*59 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:03 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





10-01-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092833.D\ECD1A.CH Vial: 33
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092833.D\ECD2B.CH
Acq On : 28 Sep 2001 20:20 Operator: SA
Sample : 47452.03MSD *E04F1MSD * Inst : HP_07
Misc : *EPA*30.2G/5.0ML*59 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 8:03 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

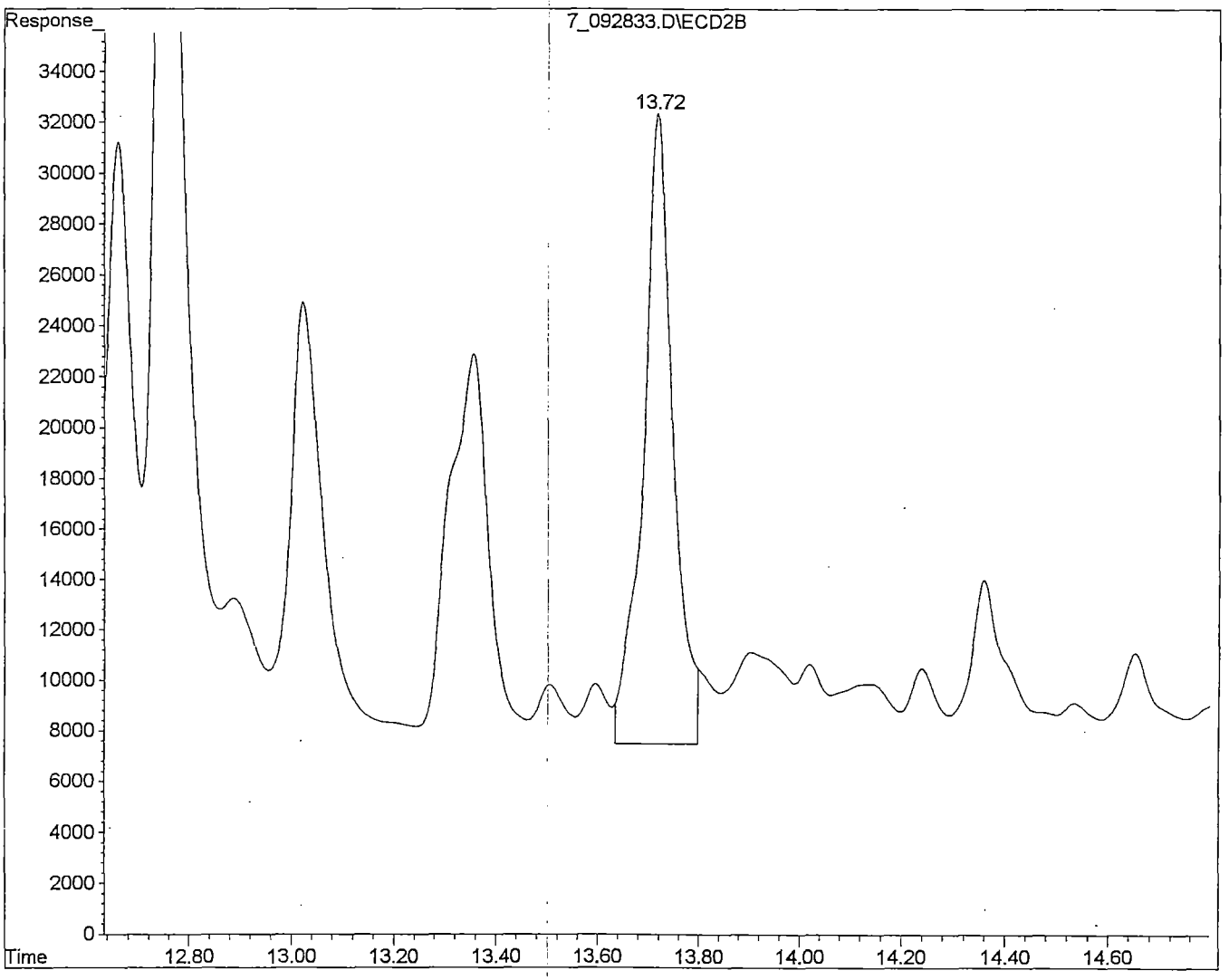
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.81	5.71	637855	915422	13.3	14.7	
	Spiked Amount 16.152			Recovery	=	82.34%	91.01%	
22)	S DCB	16.86f	17.37f	248795	421538	12.4	16.5	#
	Spiked Amount 16.152			Recovery	=	76.77%	102.15%	
	Target Compounds:							
12)	L6 Aroclor-1254	10.43	10.83f	519525	954583	124.1	235.1	#
14)	L6 Aroclor-1254 {3}	11.82f	0.00	901855	0	228.0	N.D.	#
15)	L6 Aroclor-1254 {4}	12.79f	13.02f	689180	812325	220.6	250.2	
16)	L6 Aroclor-1254 {5}	13.35f	13.72f	647746	1011602	153.5	171.4m	
	Sum Aroclor-1254			2758306	2778510	726.2	656.7	
	Average Aroclor-1254					181.540	218.909	

09-29-01

(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\7\DATA\09_28_01\7_092833.D
Date Acquired: 28 Sep 2001 20:20
Inst: HP_07 Operator ID: SA
Name: 47452.03MSD *E04F1MSD *
Misc: *EPA*30.2G/5.0ML*59
Method: F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 29 8:03 2001 Quant Results File: XPCBI24.RES



Aroclor-1254 {5} #2 13.72min area: 1011602 m

Integration Time Range: 13.63 - 13.80

F:\HPCHEM\HP\7\DATA\09_28_01\7_092833.D
Report generated: Sat Sep 29 08:43:36 2001

Gel Permeation Chromatography (GPC) Run Log - GPC2

SWOK/AATS SWL-OE-102-16 Rev.#: 2.1 Fraction Collected: 45 mLs

Col. ID.: 364134 Protocol: GC699 Fraction: PEST Cycle: 15-9

Cal. Std. Page: Client: EPA Case#

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
09/11/01 15:15	1	CAL STD (INITIAL)	2_091101	
09/11/01 15:46	2	SB	2_091102	
09/11/01 16:17	3	SB	2_091103	
09/11/01 16:48	4	SB	2_091104	
09/11/01 17:20	5	SB	2_091105	
09/11/01 17:51	6	SB#091101C (PEST)	2_091106	
09/11/01 18:22	7	SB#091101D (PEST)	2_091107	
09/11/01 18:53	8	BL0908SA-EPA	2_091108	
09/11/01 19:24	9	BB0908SA-EPA	2_091109	
09/11/01 19:55	10	LC0908SA-EPA	2_091110	
09/11/01 20:26	11	LD0908SA-EPA	2_091111	
09/11/01 20:57	12	47452.04-E04F2-EPA	2_091112	
09/11/01 21:28	13	47452.12-E04G0-EPA	2_091113	
09/11/01 21:59	14	47452.09-E04F7-EPA	2_091114	
09/11/01 22:31	15	47452.20-E04G8-EPA	2_091115	
09/11/01 23:02	16	47452.08-E04F6-EPA	2_091116	
09/11/01 23:33	17	47452.17-E04G5-EPA	2_091117	
09/12/01 00:04	18	47452.16-E04G4-EPA	2_091118	
09/12/01 00:35	19	47452.13-E04G1-EPA	2_091119	
09/12/01 01:06	20	47452.22-E04H0-EPA	2_091120	
09/12/01 01:37	21	47452.15-E04G3-EPA	2_091121	

9/12/01 9/12/01

Verification Signature/Date Analyst Signature/Date

Book: OE-102-16-RUN- Page No.: 45

Gel Permeation Chromatography (GPC) Run Log - GPC2

SWOK AATS SWL-OE-102-16 Rev.#: 2.1 Fraction Collected: 45 mLs

Col. ID.: 364134 Protocol: GC699 Fraction: PEST Cycle: 15-9

Cal. Std. Page: Client: EPA Case#

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
09/12/01 02:08	22	47452.14-E04G2-EPA	2_091122	
09/12/01 02:39	23	47452.18-E04G6-EPA	2_091123	
09/12/01 03:10	24	47452.06-E04F4-EPA	2_091124	
09/12/01 03:42	25	47452.10-E04F8-EPA	2_091125	
09/12/01 04:13	26	47452.07-E04F5-EPA	2_091126	
09/12/01 04:44	27	47452.19-E04G7-EPA	2_091127	
09/12/01 05:15	28	47452.11-E04F9-EPA	2_091128	
09/12/01 05:46	29	47452.21-E04G9-EPA	2_091129	
09/12/01 06:17	30	47452.05-E04F3-EPA	2_091130	
09/12/01 06:48	31	47452.01-E04F1-EPA	2_091131	
09/12/01 07:19	32	47452.02-E04F1MS-EPA	2_091132	
09/12/01 07:50	33	47452.03-E04F1MSD-EPA	2_091133	
09/12/01 08:21	34	SB	2_091134	
09/12/01 08:53	35	SB	2_091135	
09/12/01 09:24	36	SB	2_091136	
09/12/01 09:55	37	SB	2_091137	
09/12/01 10:26	38	CAL STD (FINAL)	2_091138	

Compound	Initial RT	Final RT	% Difference
Phthalate	14.68	14.37	2.11
Methoxychlor	16.35	15.98	2.26
Perylene	21.46	21.02	2.05

9/18/2001

Verification Signature/Date

9/12/01

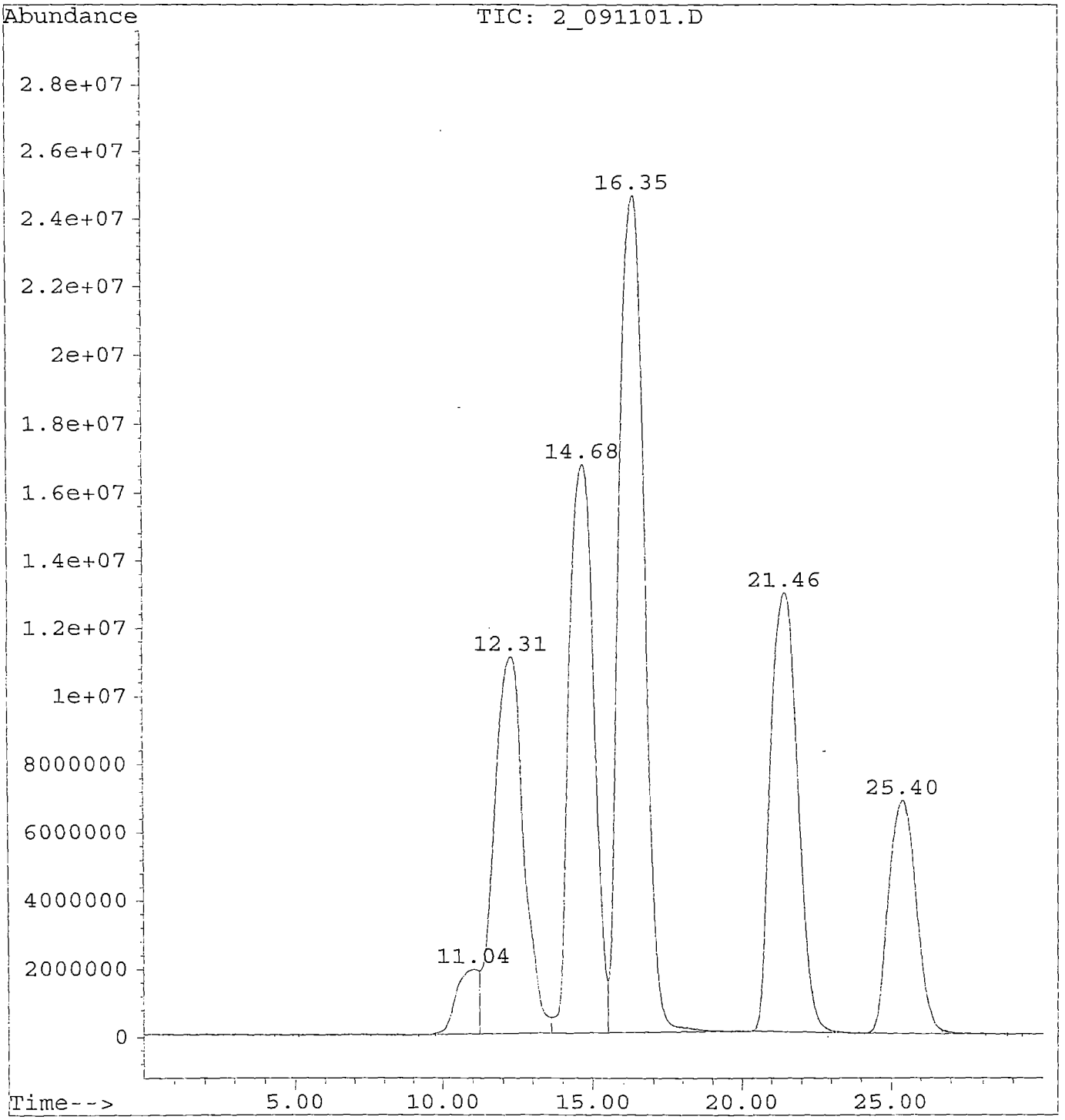
Analyst Signature/Date

Book: OE-102-16-RUN-

Page No.: 46

Data File : C:\HPCHEM\6\DATA\091101\2_091101.D
Acq On : 11 Sep 01 03:15 PM
Sample : CAL STD (INITIAL)
Misc : COL# 364134

Vial: 1
Operator: CR COL#
Inst : GPC2
Multiplr: 1.00



Chromatographic Resolution Report

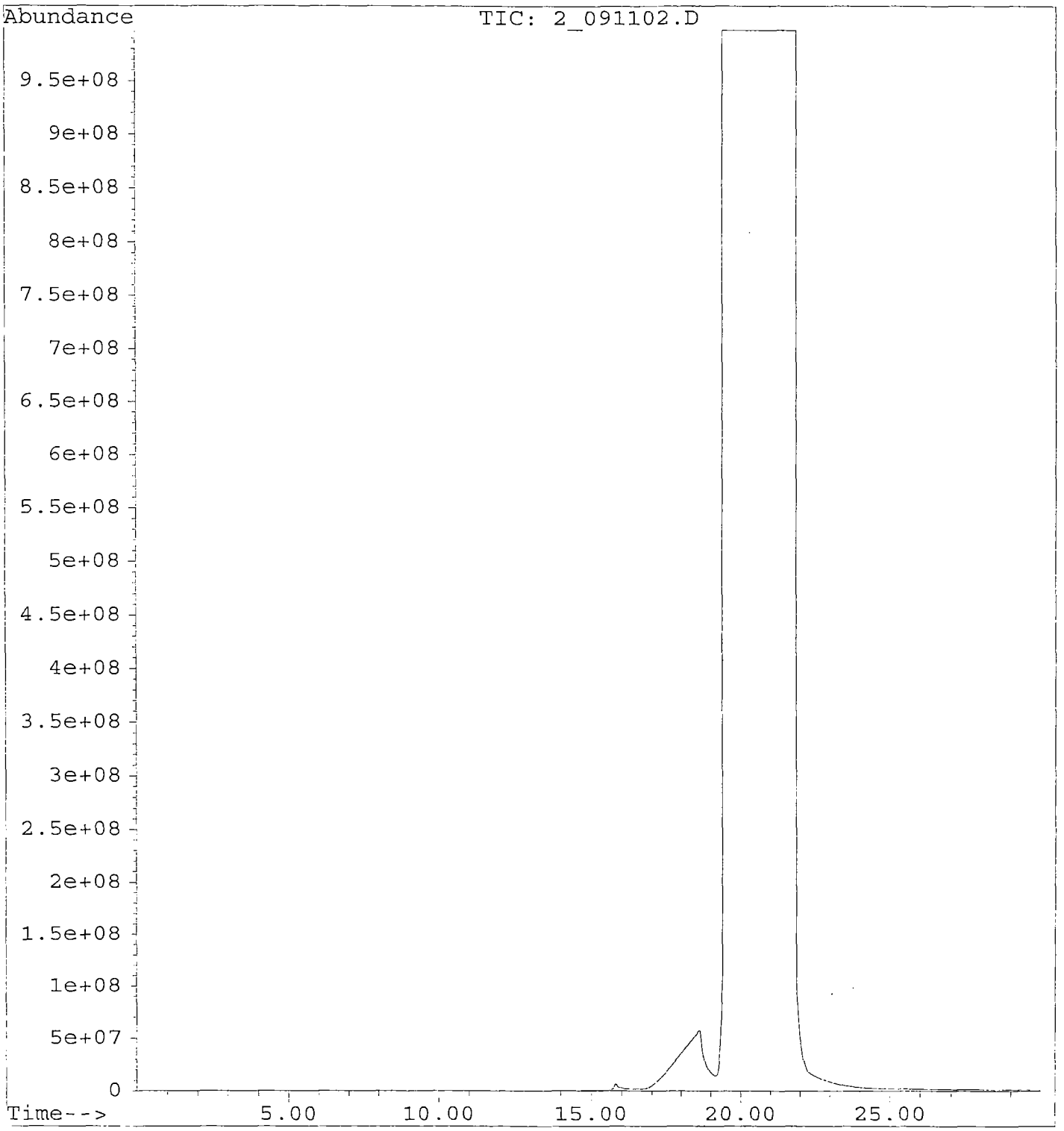
Data File : C:\HPCHEM\6\DATA\091101\2_091101.D
Acq On : 11 Sep 01 15:15
Sample : CAL STD (INITIAL)
Misc : COL# 364134

Vial: 1
Operator: CR COL# 36
Inst : GPC2
Multiplr: 1.00

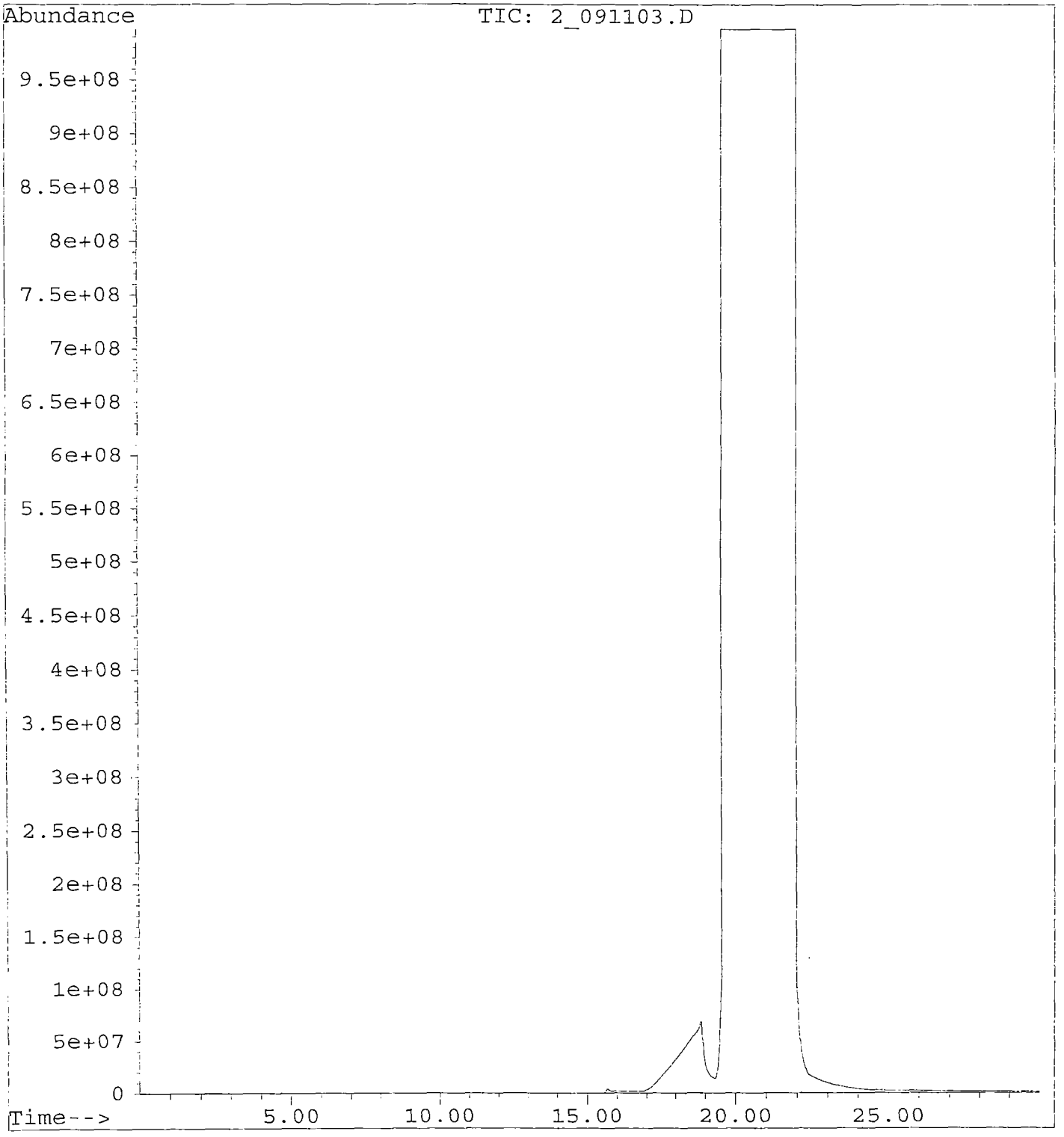
Method : C:\HPCHEM\6\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
11.043	12.307	1.75
12.307	14.683	95.65
14.683	16.350	90.87
16.350	21.459	100.00
21.459	25.398	100.00

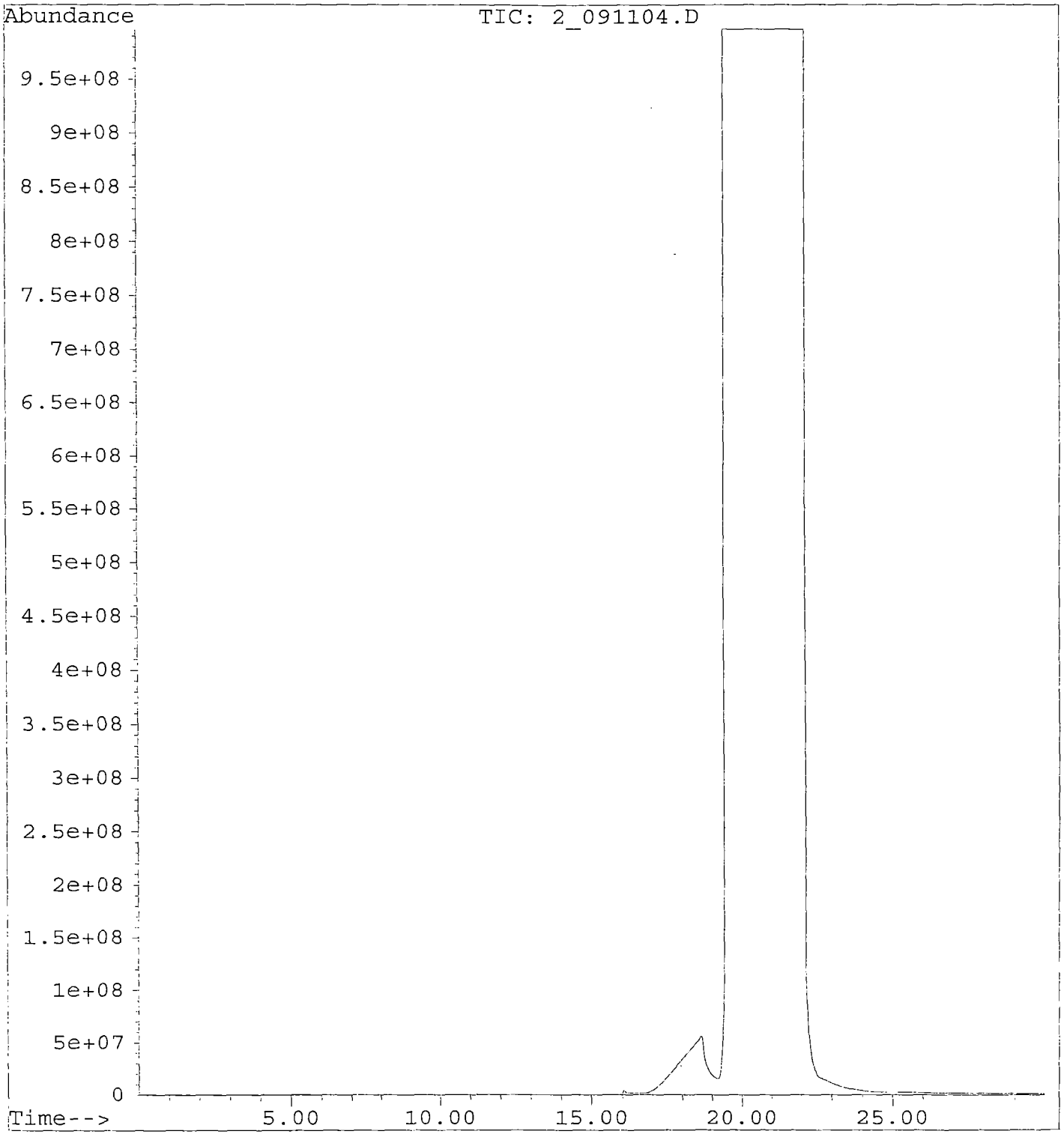
File : C:\HPCHEM\6\DATA\091101\2_091102.D
Operator : CR COL# 364134
Acquired : 11 Sep 01 15:46 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 2



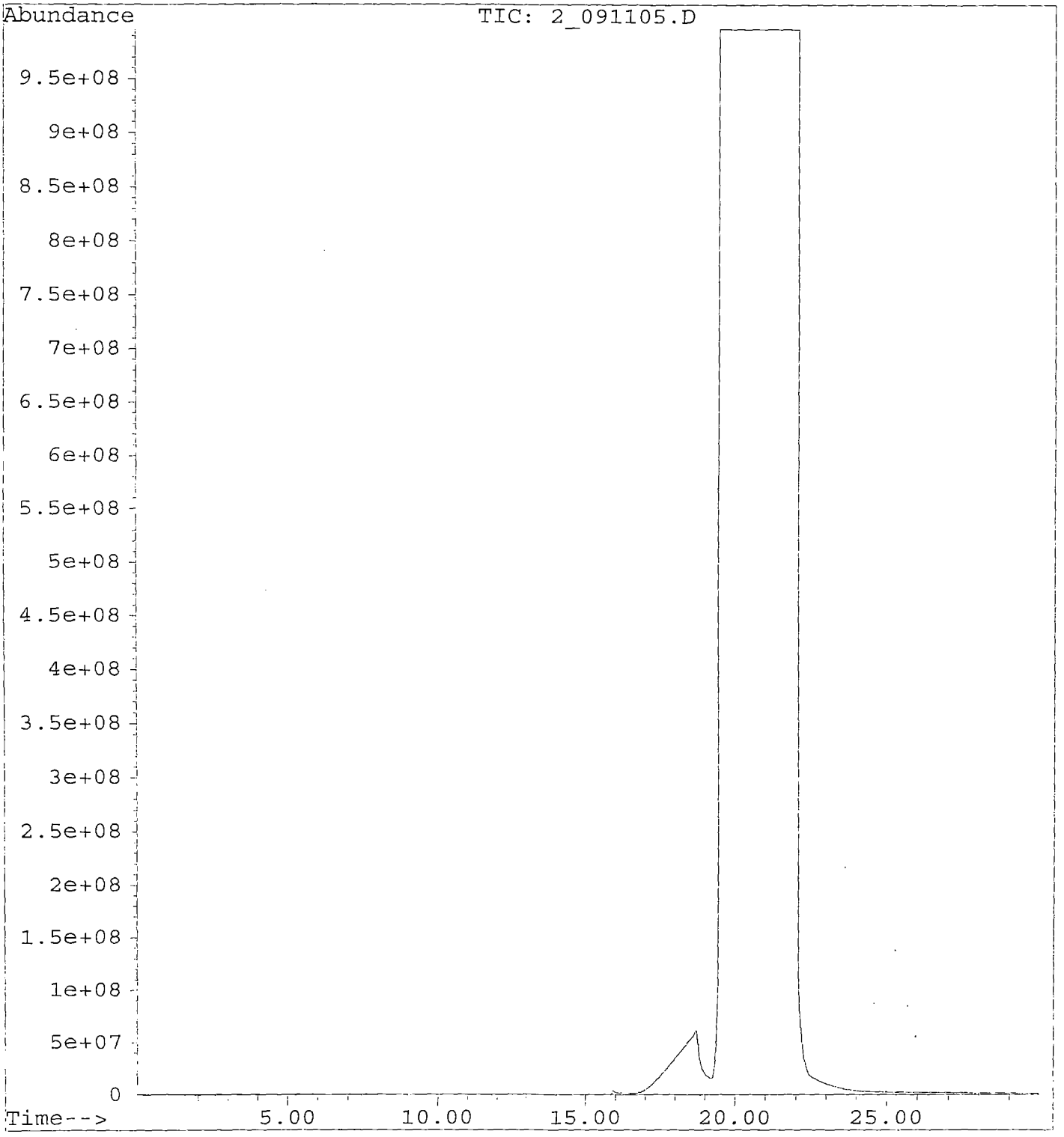
File : C:\HPCHEM\6\DATA\091101\2_091103.D
Operator : CR COL# 364134
Acquired : 11 Sep 01 16:17 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 3



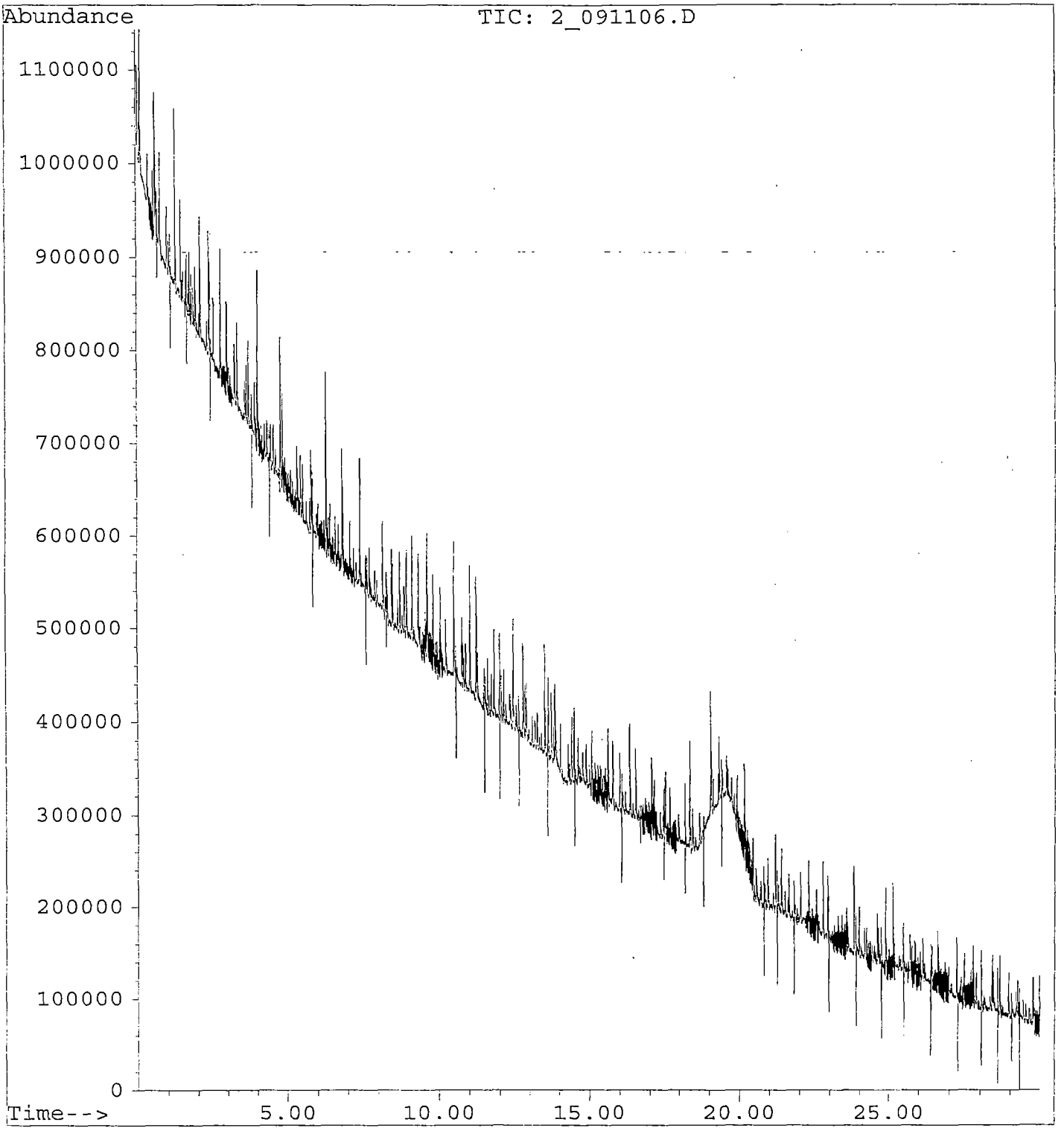
File : C:\HPCHEM\6\DATA\091101\2_091104.D
Operator : CR COL# 364134
Acquired : 11 Sep 01 16:48 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 4



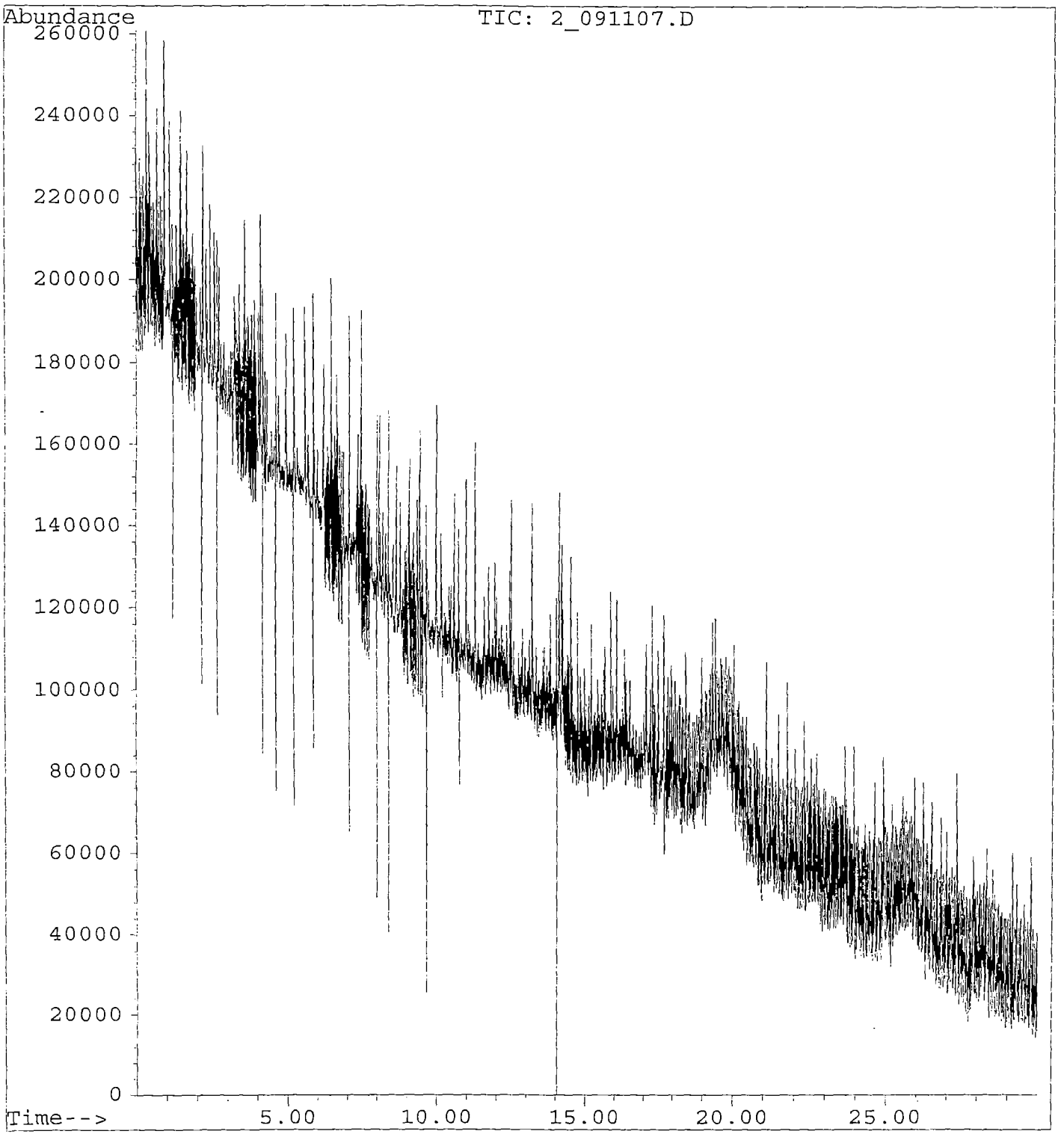
File : C:\HPCHEM\6\DATA\091101\2_091105.D
Operator : CR COL# 364134
Acquired : 11 Sep 01 17:20 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 5



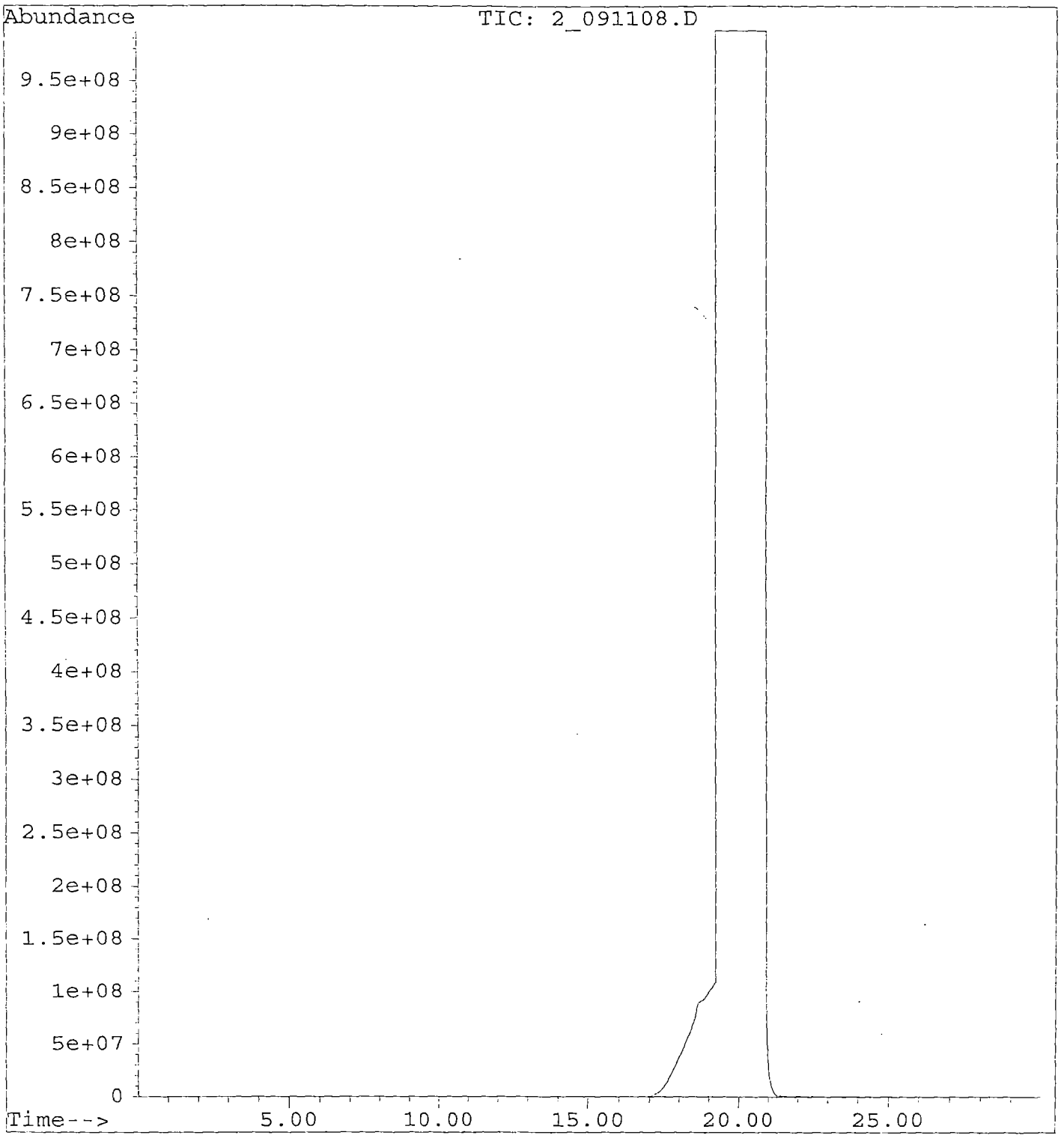
File : C:\HPCHEM\6\DATA\091101\2_091106.D
Operator : CR COL# 364134
Acquired : 11 Sep 01 17:51 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB#091101C (PEST)
Misc Info : COL# 364134
Vial Number: 6



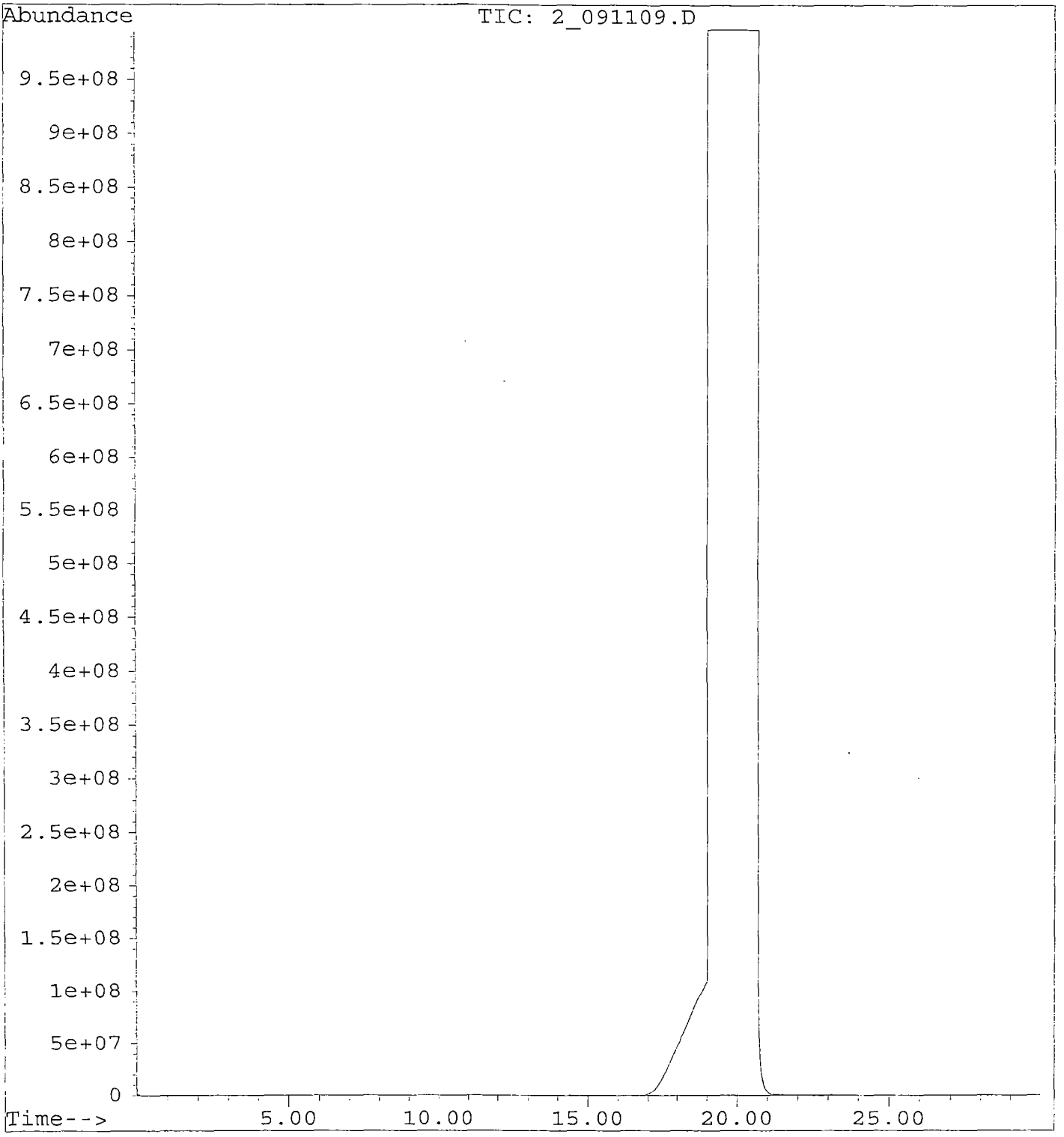
File : C:\HPCHEM\6\DATA\091101\2_091107.D
Operator : CR COL# 364134
Acquired : 11 Sep 01 18:22 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB#091101D (PEST)
Misc Info : COL# 364134
Vial Number: 7



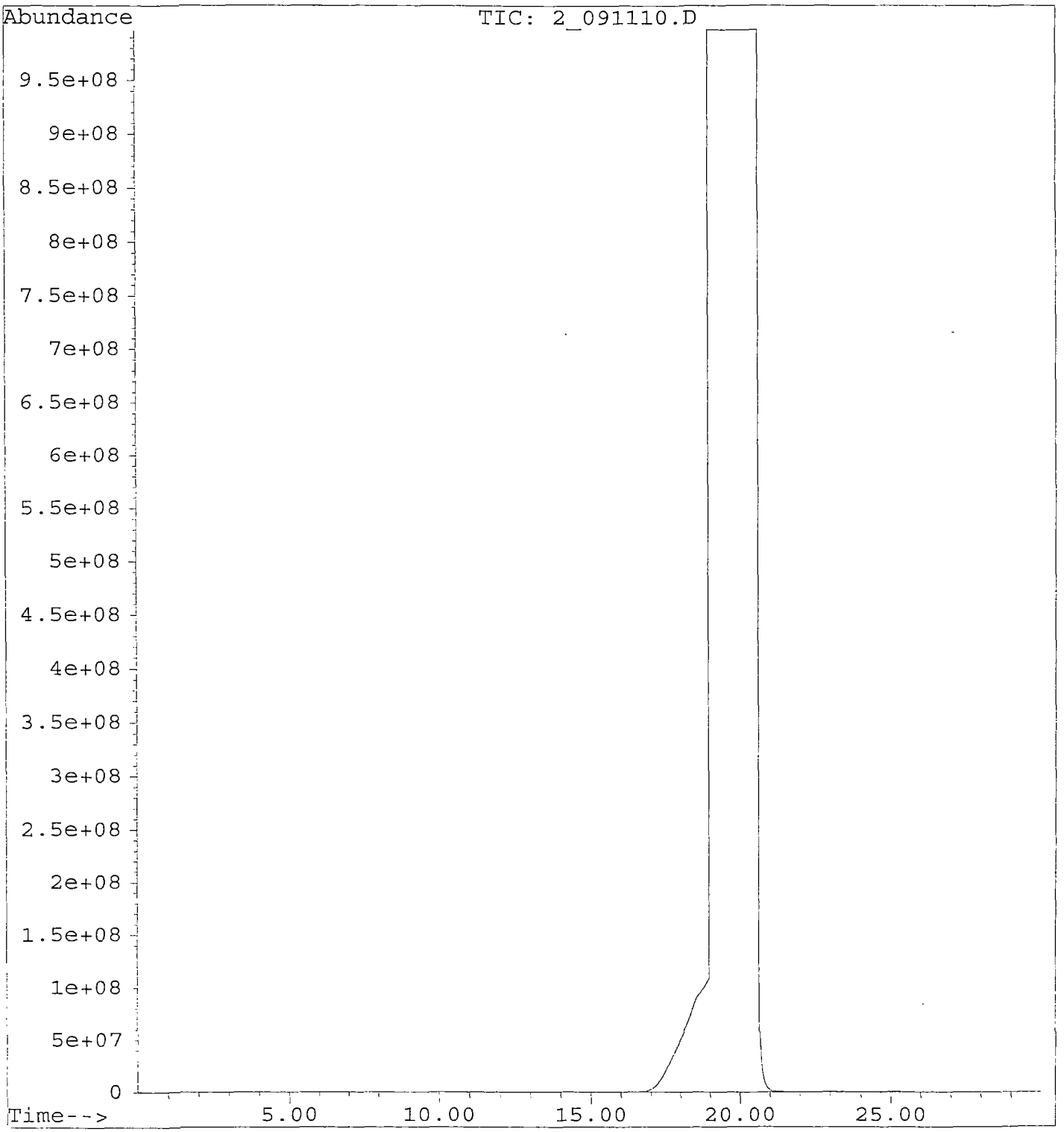
File : C:\HPCHEM\6\DATA\091101\2_091108.D
Operator : CR COL# 364134
Acquired : 11 Sep 01 18:53 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: BL0908SA-EPA
Misc Info : COL# 364134
Vial Number: 8



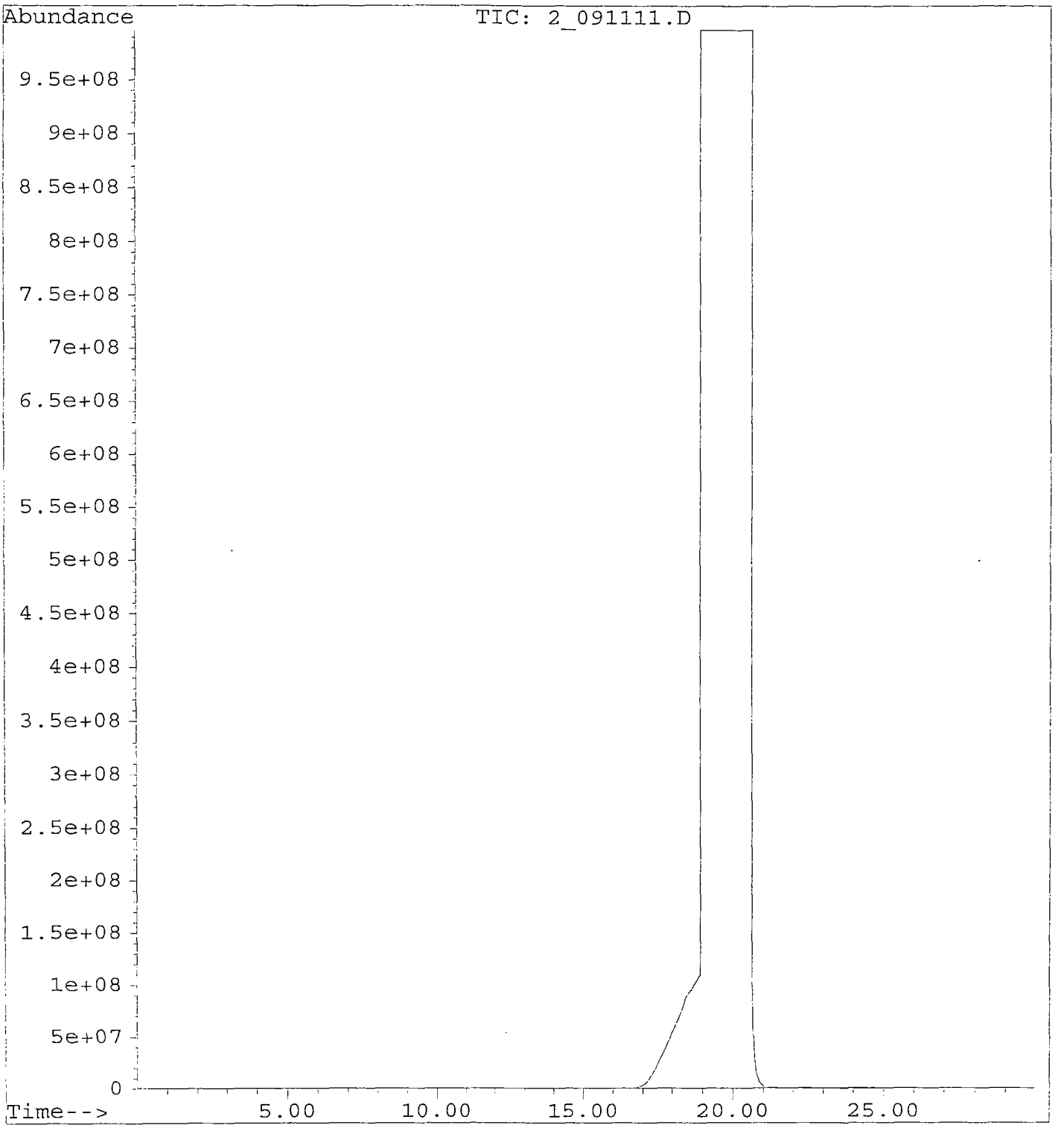
File : C:\HPCHEM\6\DATA\091101\2_091109.D
Operator : CR COL# 364134
Acquired : 11 Sep 01 19:24 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: BB0908SA-EPA
Misc Info : COL# 364134
Vial Number: 9



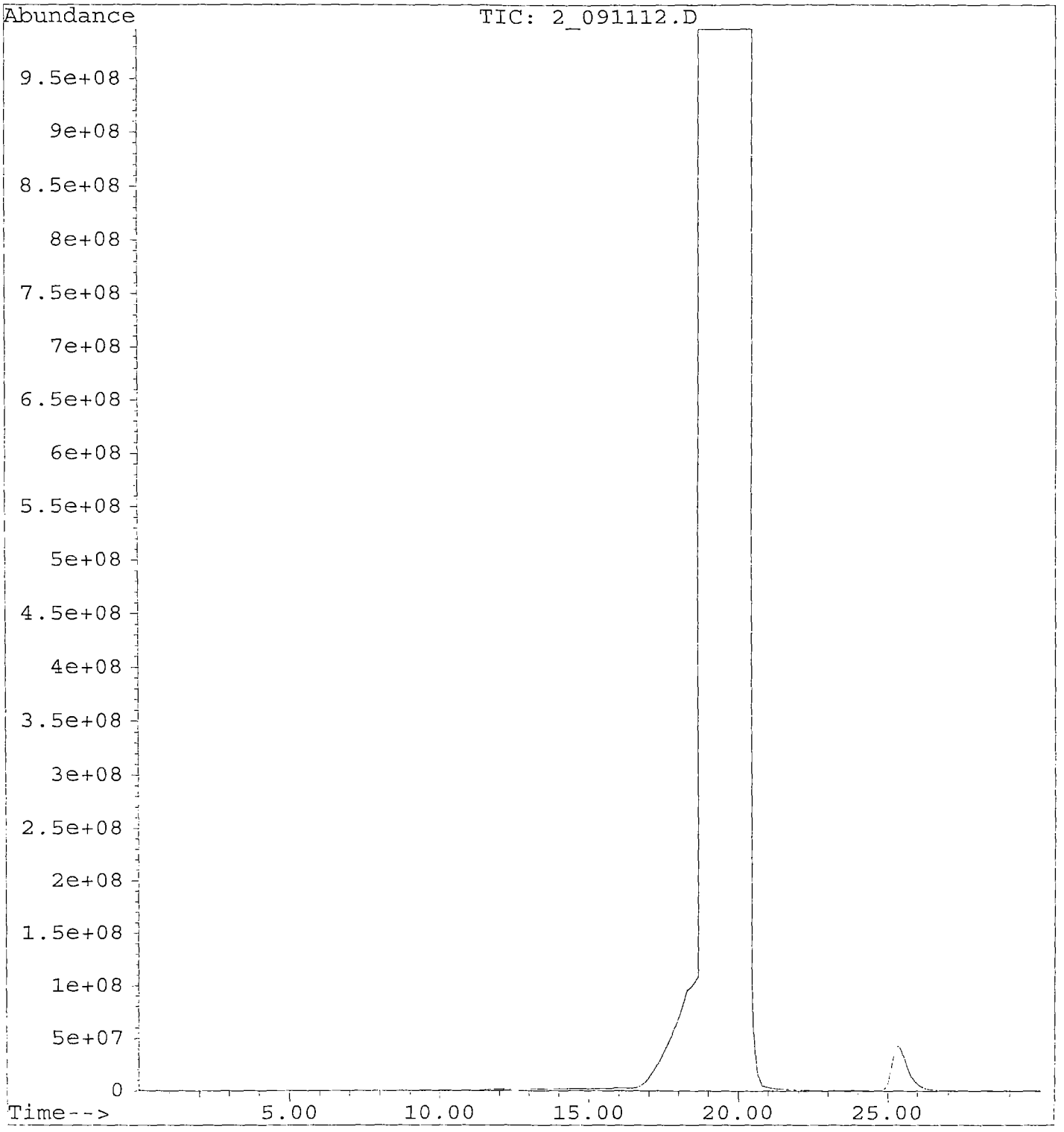
File : C:\HPCHEM\6\DATA\091101\2_091110.D
Operator : CR COL# 364134
Acquired : 11 Sep 01 19:55 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: LC0908SA-EPA
Misc Info : COL# 364134
Vial Number: 10



File : C:\HPCHEM\6\DATA\091101\2_091111.D
Operator : CR COL# 364134
Acquired : 11 Sep 01 20:26 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: LD0908SA-EPA
Misc Info : COL# 364134
Vial Number: 11



File : C:\HPCHEM\6\DATA\091101\2_091112.D
Operator : CR COL# 364134
Acquired : 11 Sep 01 20:57 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47452.04-E04F2-EPA
Misc Info : COL# 364134
Vial Number: 12



Gel Permeation Chromatography (GPC) Run Log - GPC2

SWOK AATS SWL-OE-102-16 Rev.#: 2.1 Fraction Collected: 45 mLs

Col. ID.: 364134 Protocol: GC699 Fraction: PEST Cycle: 15-9

Cal. Std. Page: Client: EPA Case#

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
09/12/01 02:08	22	47452.14-E04G2-EPA	2_091122	
09/12/01 02:39	23	47452.18-E04G6-EPA	2_091123	
09/12/01 03:10	24	47452.06-E04F4-EPA	2_091124	
09/12/01 03:42	25	47452.10-E04F8-EPA	2_091125	
09/12/01 04:13	26	47452.07-E04F5-EPA	2_091126	
09/12/01 04:44	27	47452.19-E04G7-EPA	2_091127	
09/12/01 05:15	28	47452.11-E04F9-EPA	2_091128	
09/12/01 05:46	29	47452.21-E04G9-EPA	2_091129	
09/12/01 06:17	30	47452.05-E04F3-EPA	2_091130	
09/12/01 06:48	31	47452.01-E04F1-EPA	2_091131	
09/12/01 07:19	32	47452.02-E04F1MS-EPA	2_091132	
09/12/01 07:50	33	47452.03-E04F1MSD-EPA	2_091133	
09/12/01 08:21	34	SB	2_091134	
09/12/01 08:53	35	SB	2_091135	
09/12/01 09:24	36	SB	2_091136	
09/12/01 09:55	37	SB	2_091137	
09/12/01 10:26	38	CAL STD (FINAL)	2_091138	

Compound	Initial RT	Final RT	% Difference
Phthalate	14.68	14.37	2.11
Methoxychlor	16.35	15.98	2.26
Perylene	21.46	21.02	2.05

9/13/2001

Verification Signature/Date

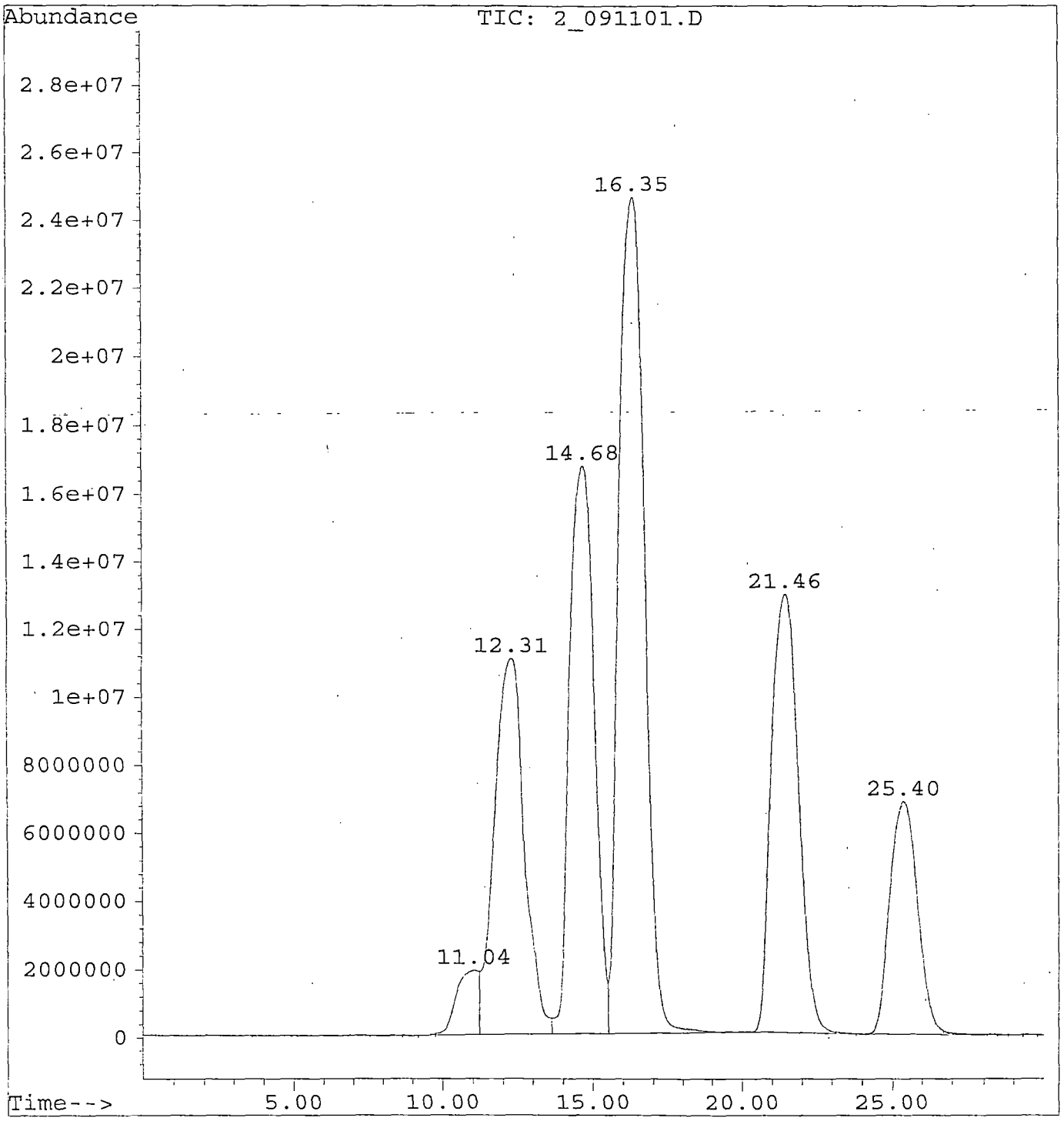
9/12/01

Analyst Signature/Date

Book: OE-102-16-RUN- Page No.: 46

Data File : C:\HPCHEM\6\DATA\091101\2_091101.D
Acq On : 11 Sep 01 03:15 PM
Sample : CAL STD (INITIAL)
Misc : COL# 364134

Vial: 1
Operator: CR COL#
Inst : GPC2
Multiplr: 1.00



Chromatographic Resolution Report

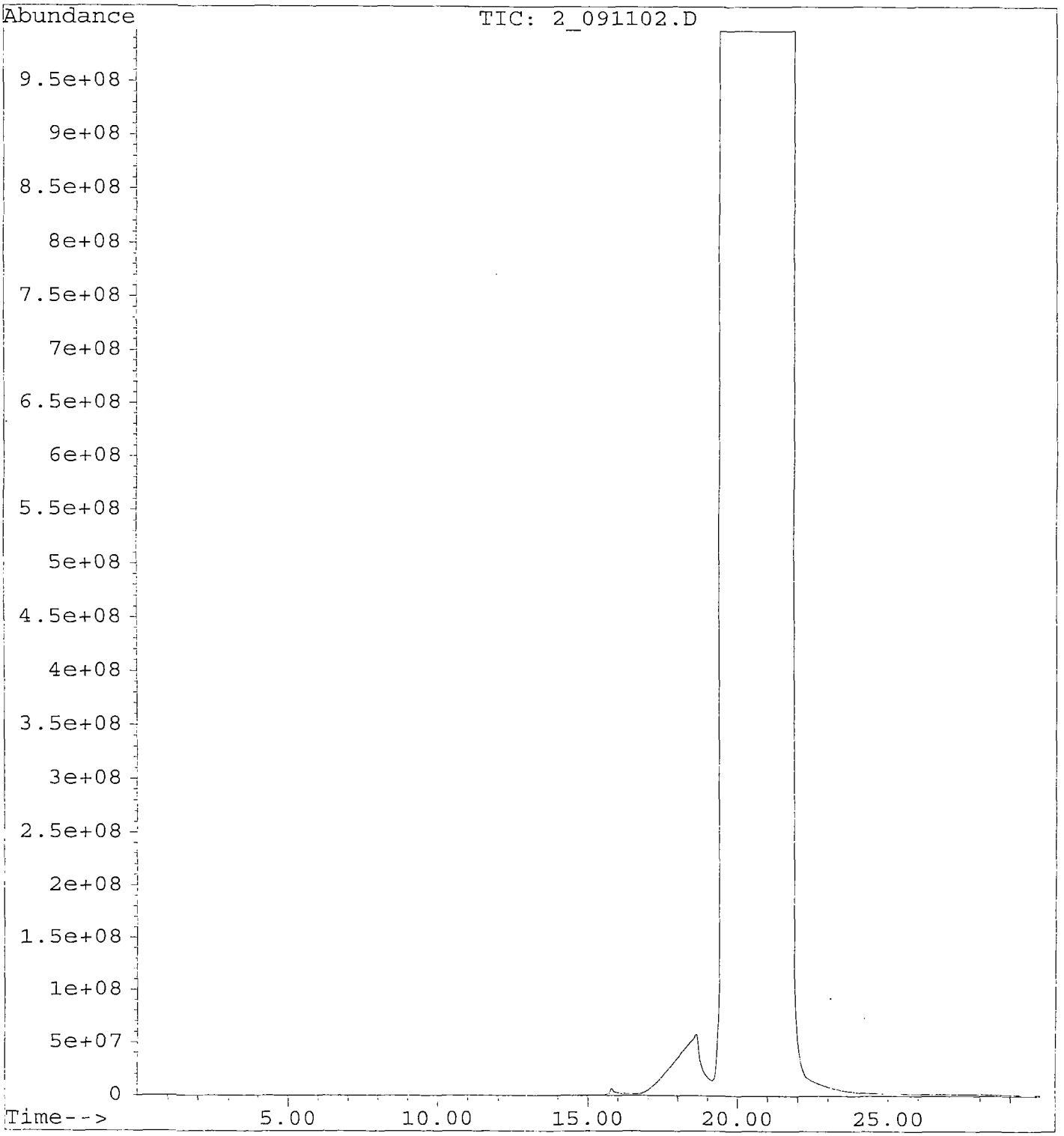
Data File : C:\HPCHEM\6\DATA\091101\2_091101.D
Acq On : 11 Sep 01 15:15
Sample : CAL STD (INITIAL)
Misc : COL# 364134

Vial: 1
Operator: CR COL# 36
Inst : GPC2
Multiplr: 1.00

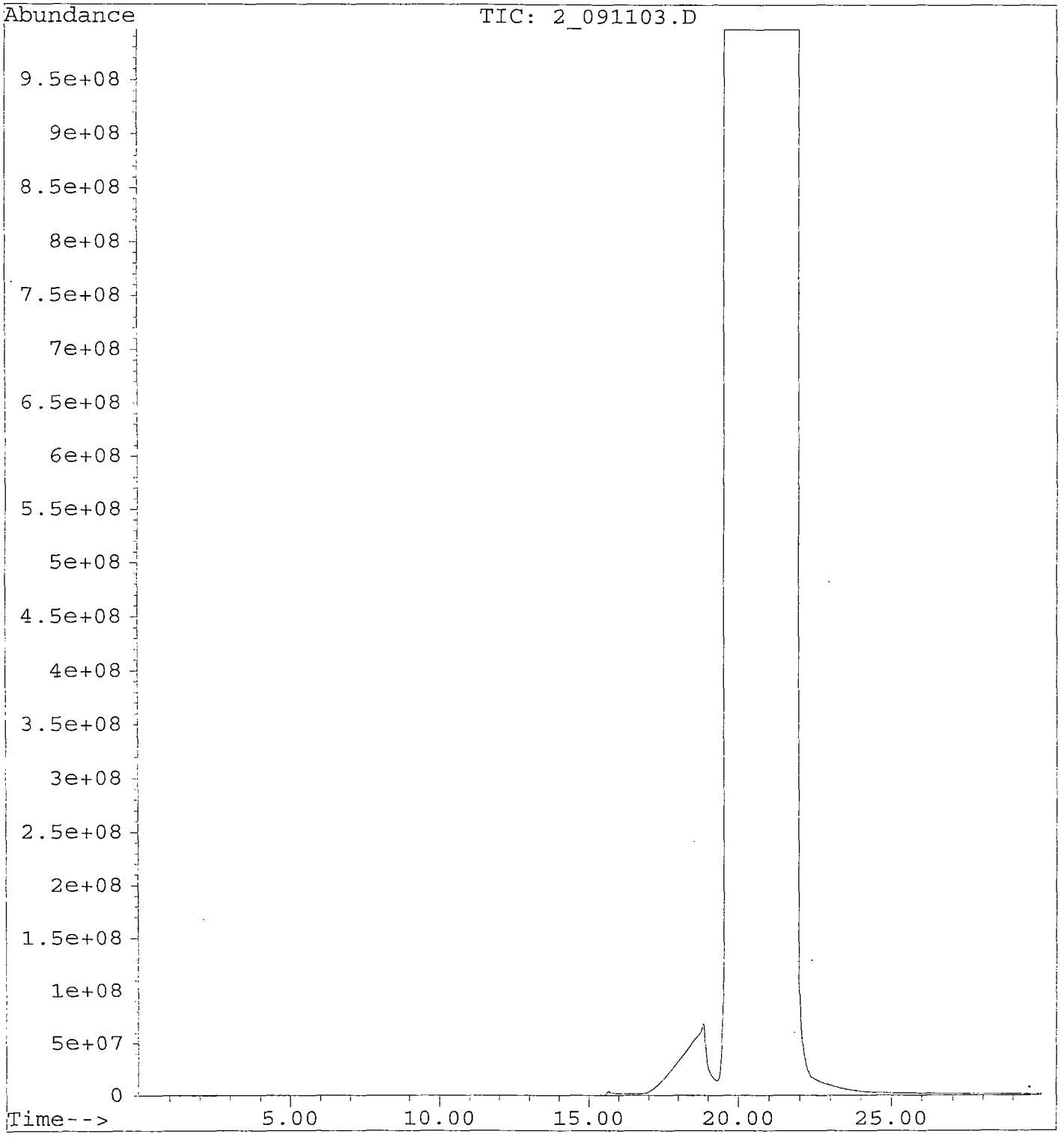
Method : C:\HPCHEM\6\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
11.043	12.307	1.75
12.307	14.683	95.65
14.683	16.350	90.87
16.350	21.459	100.00
21.459	25.398	100.00

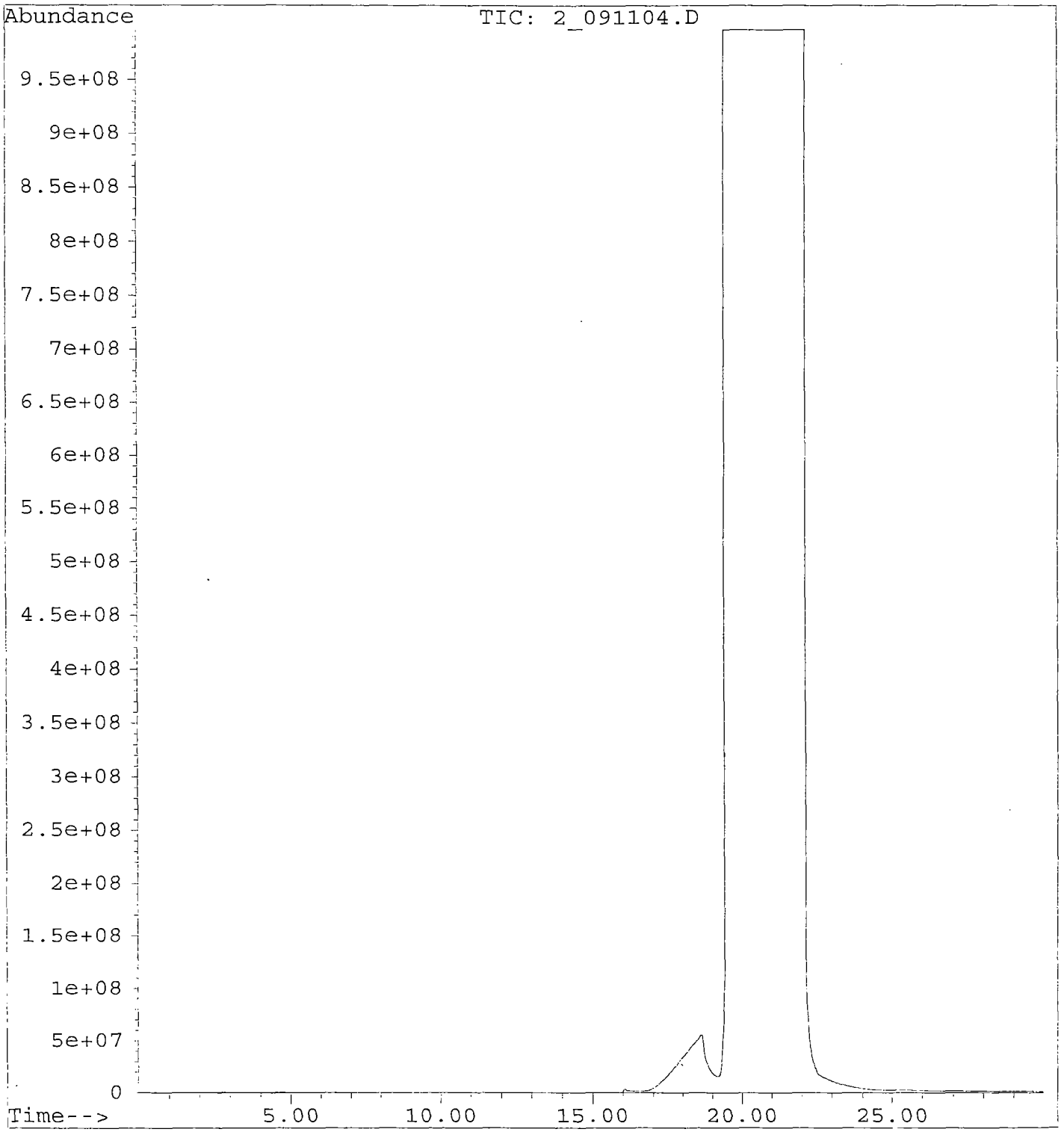
File : C:\HPCHEM\6\DATA\091101\2_091102.D
Operator : CR COL# 364134
Acquired : 11 Sep 01 15:46 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 2



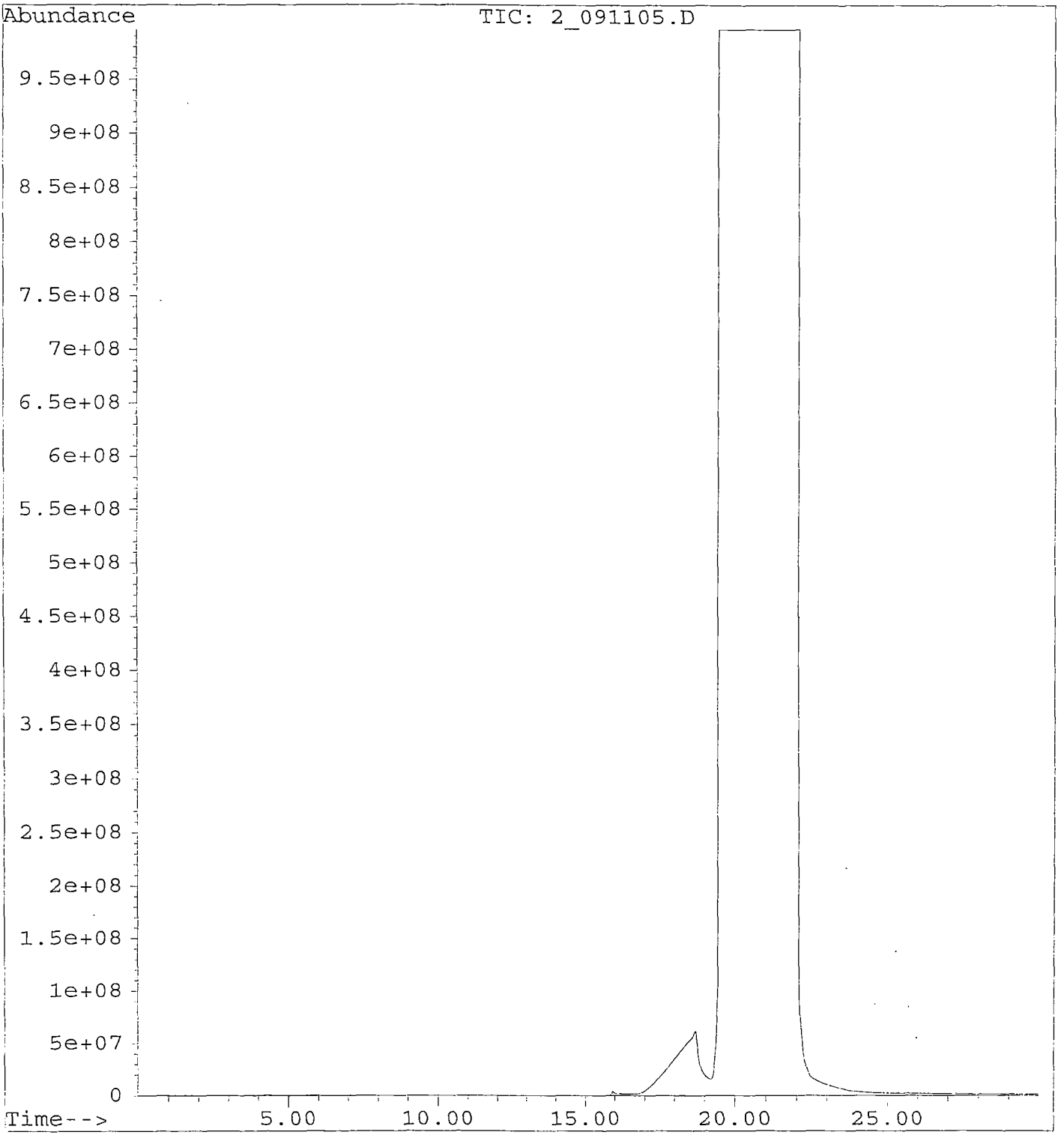
File : C:\HPCHEM\6\DATA\091101\2_091103.D
Operator : CR COL# 364134
Acquired : 11 Sep 01 16:17 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 3



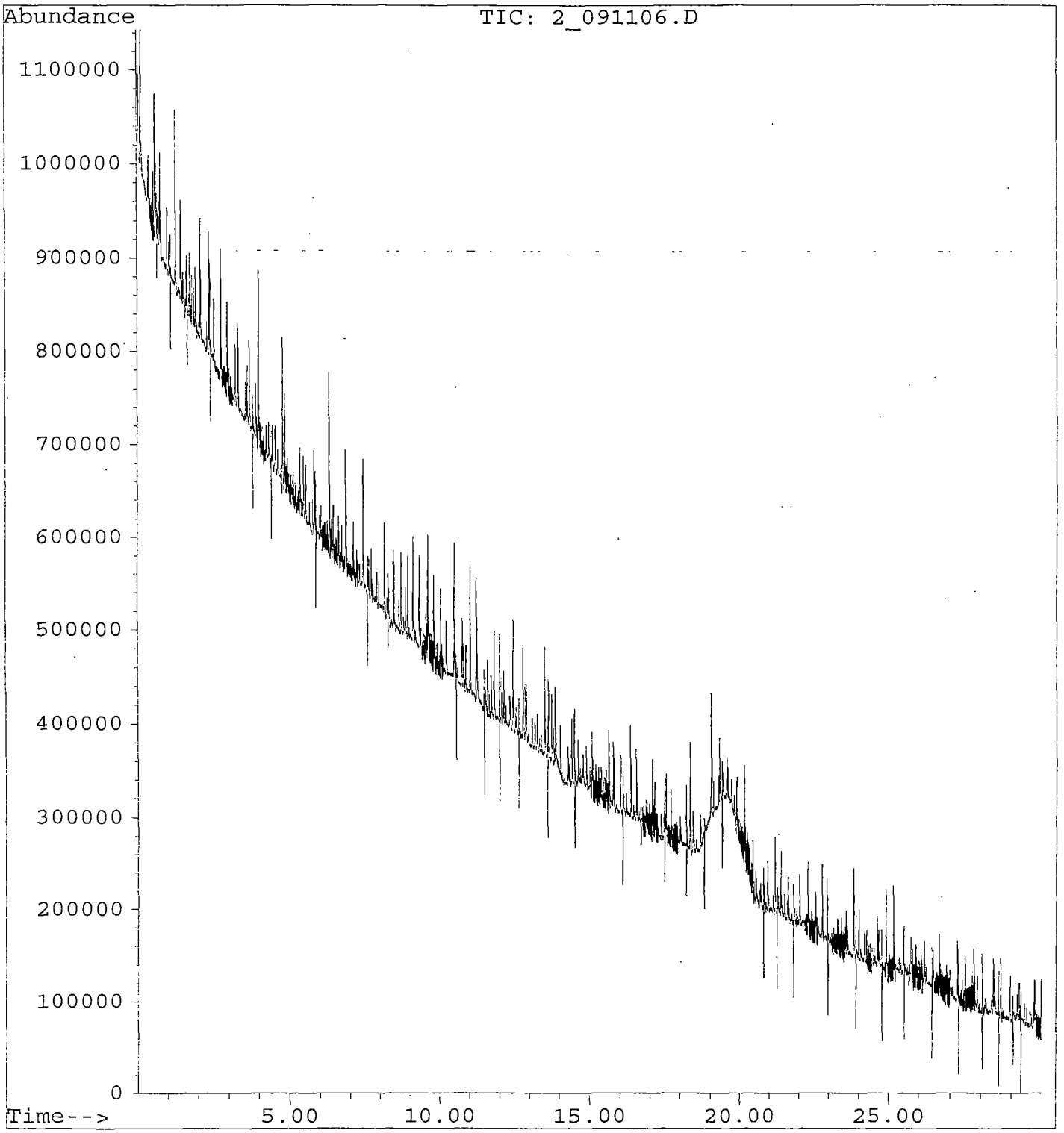
File : C:\HPCHEM\6\DATA\091101\2_091104.D
Operator : CR COL# 364134
Acquired : 11 Sep 01 16:48 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 4



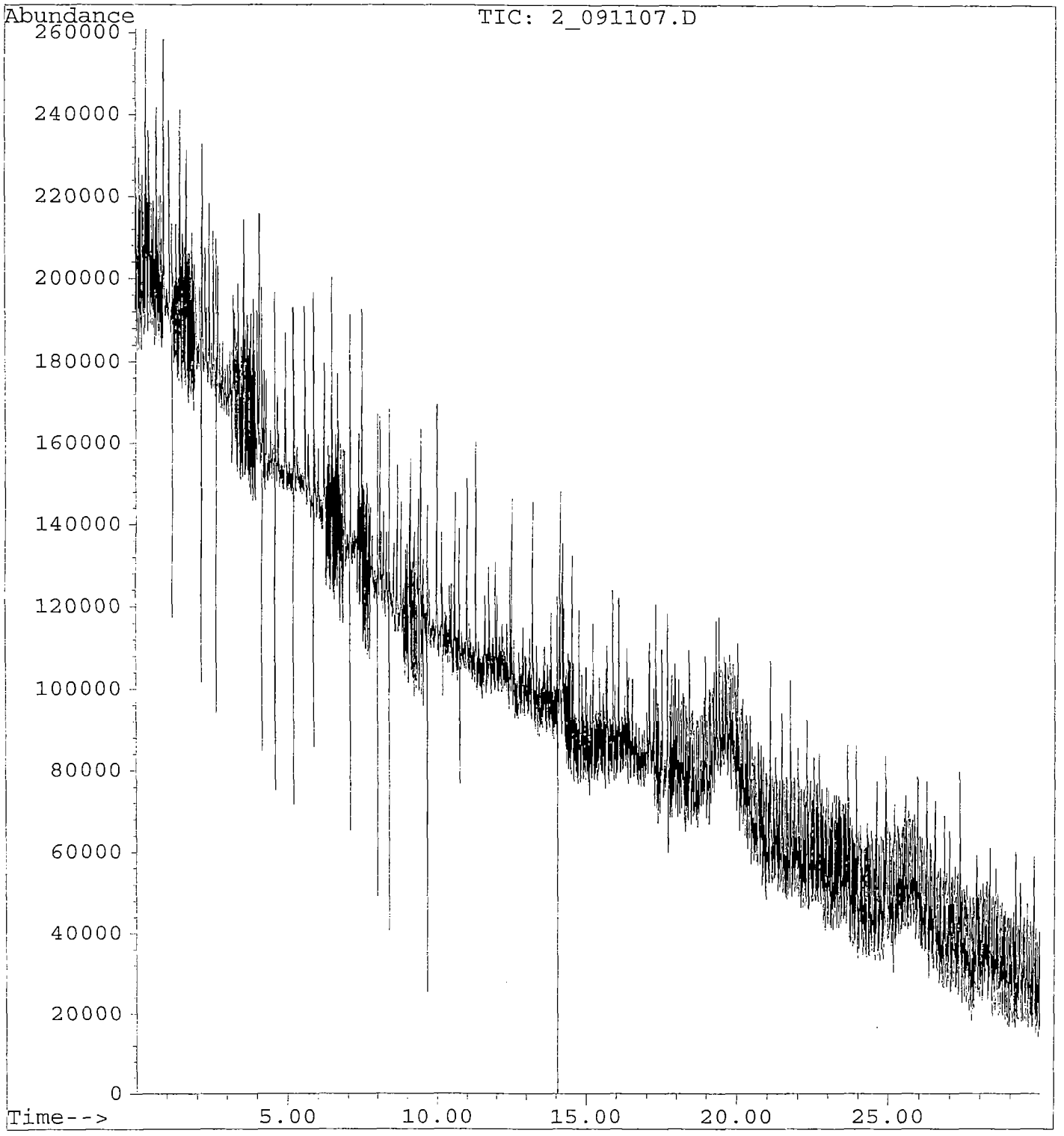
File : C:\HPCHEM\6\DATA\091101\2_091105.D
Operator : CR COL# 364134
Acquired : 11 Sep 01 17:20 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 5



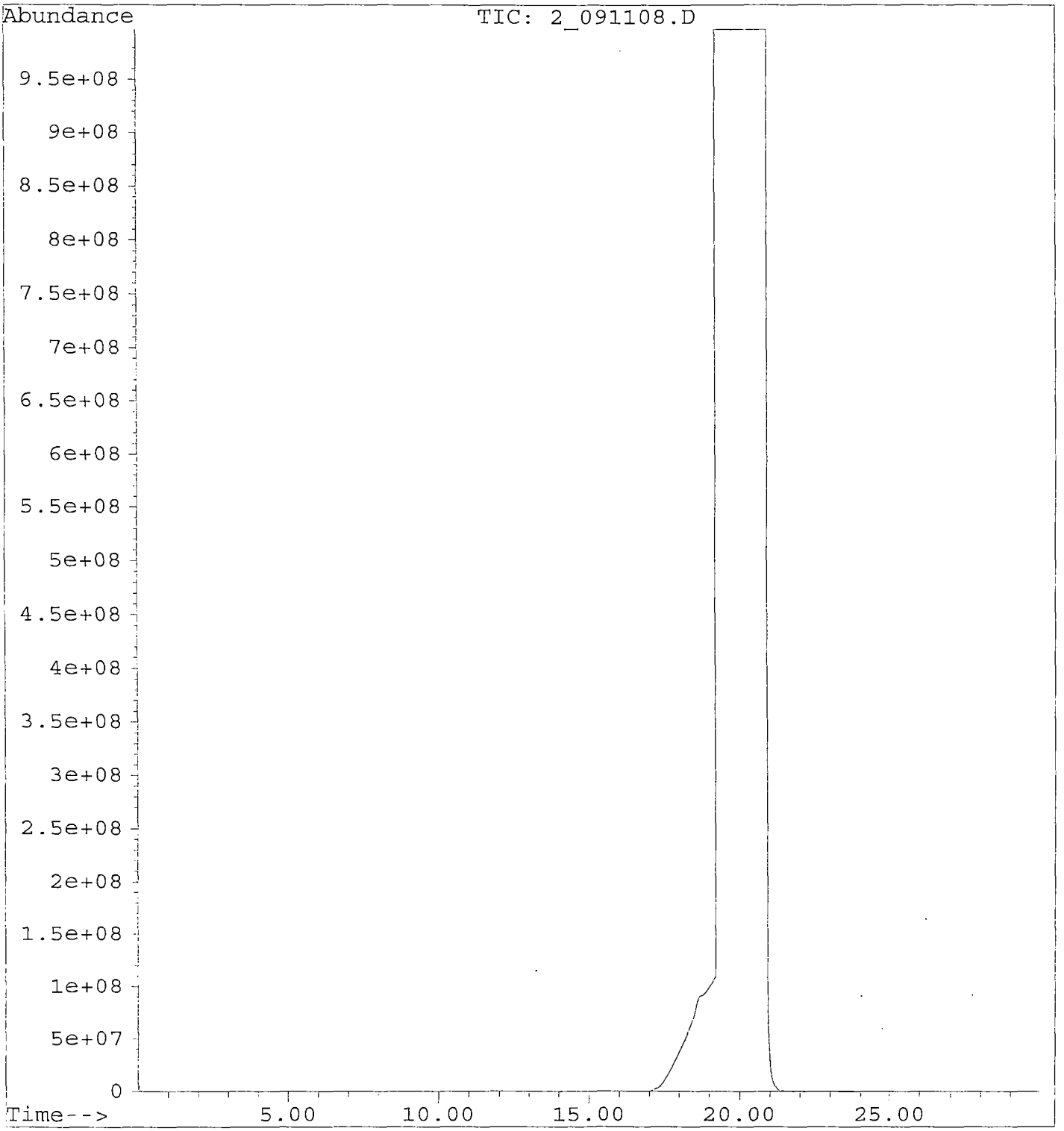
File : C:\HPCHEM\6\DATA\091101\2_091106.D
Operator : CR COL# 364134
Acquired : 11 Sep 01 17:51 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB#091101C (PEST)
Misc Info : COL# 364134
Vial Number: 6



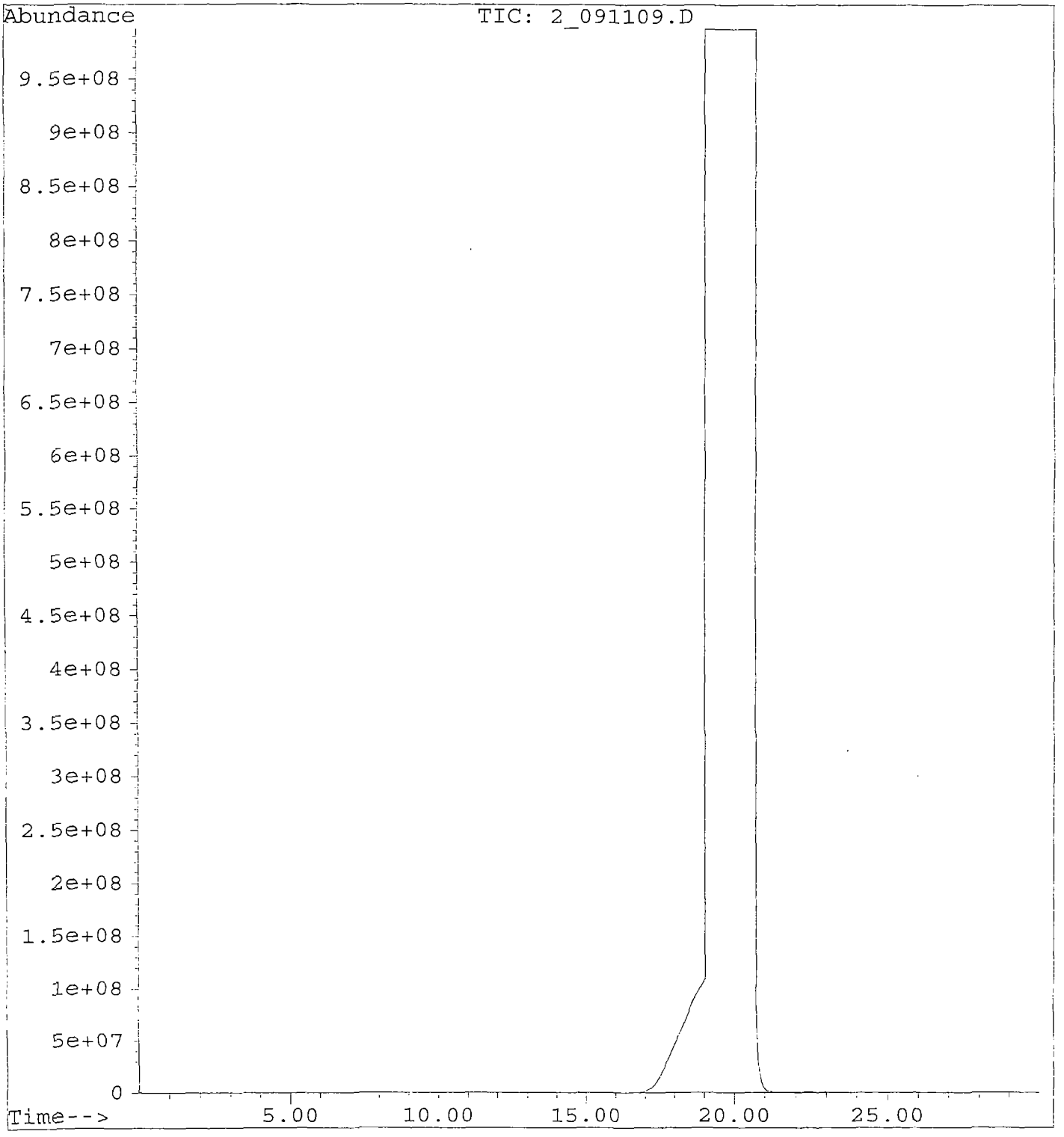
File : C:\HPCHEM\6\DATA\091101\2_091107.D
Operator : CR COL# 364134
Acquired : 11 Sep 01 18:22 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB#091101D (PEST)
Misc Info : COL# 364134
Vial Number: 7



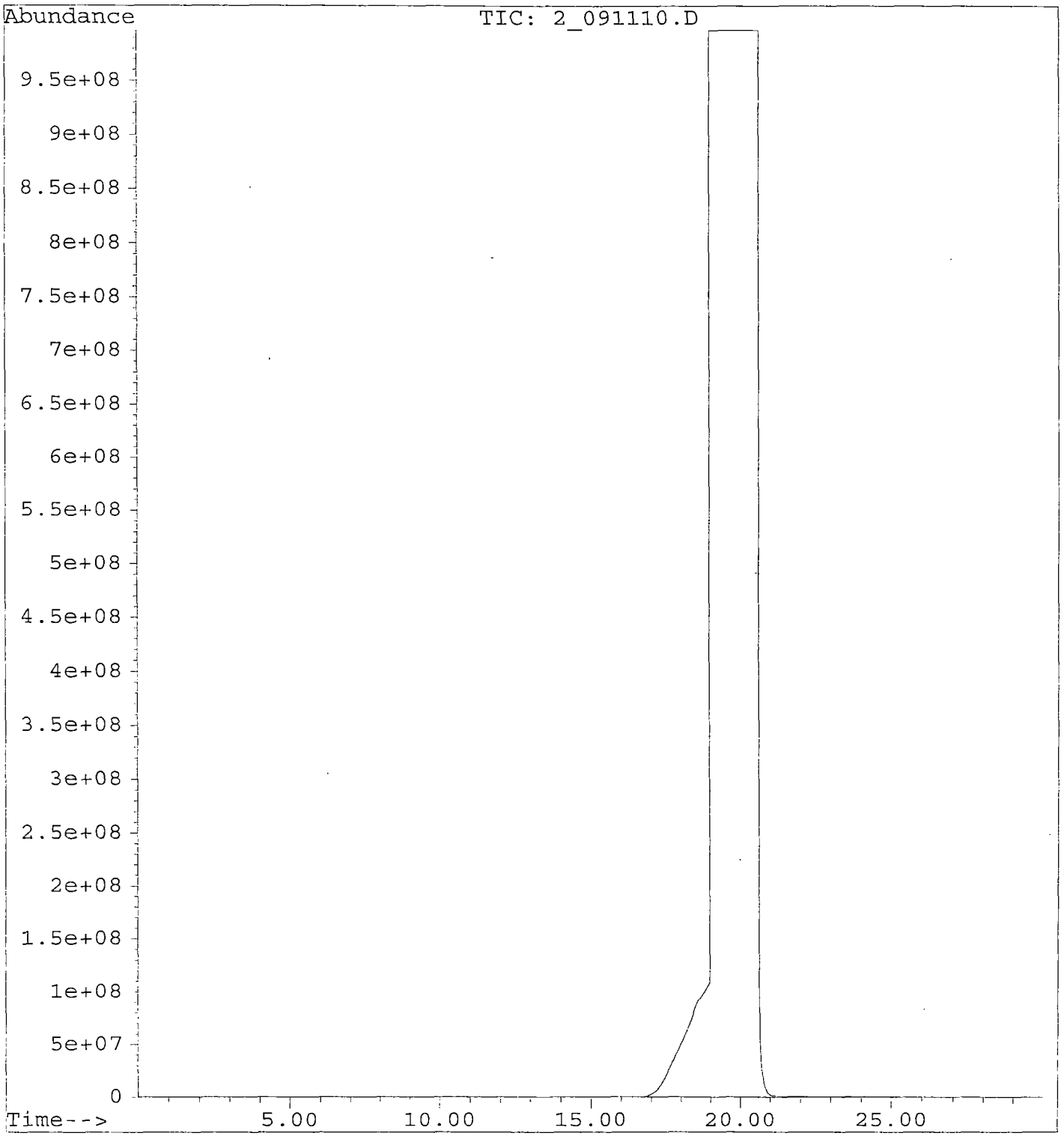
File : C:\HPCHEM\6\DATA\091101\2_091108.D
Operator : CR COL# 364134
Acquired : 11 Sep 01 18:53 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: BL0908SA-EPA
Misc Info : COL# 364134
Vial Number: 8



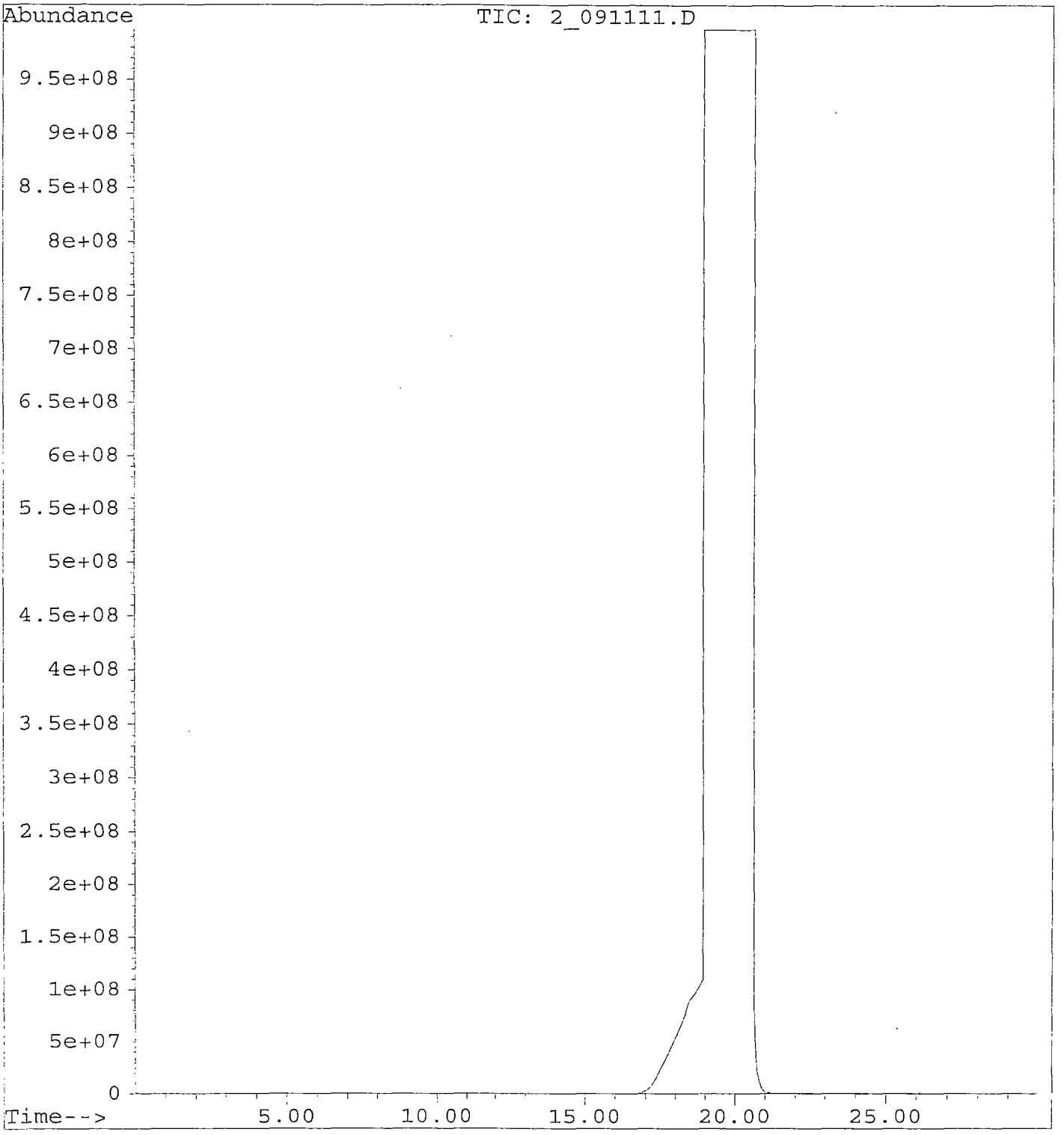
File : C:\HPCHEM\6\DATA\091101\2_091109.D
Operator : CR COL# 364134
Acquired : 11 Sep 01 19:24 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: BB0908SA-EPA
Misc Info : COL# 364134
Vial Number: 9



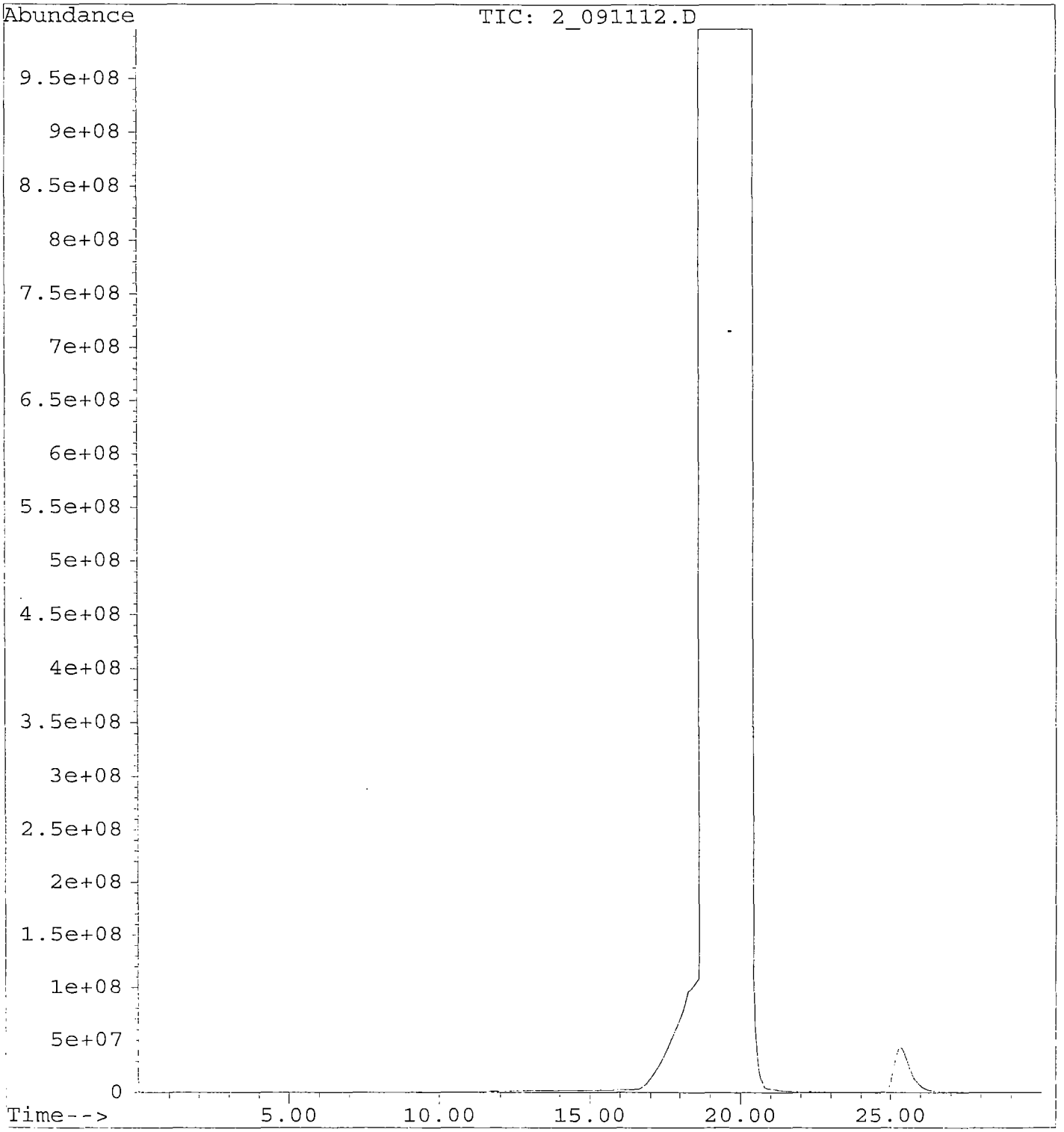
File : C:\HPCHEM\6\DATA\091101\2_091110.D
Operator : CR COL# 364134
Acquired : 11 Sep 01 19:55 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: LC0908SA-EPA
Misc Info : COL# 364134
Vial Number: 10



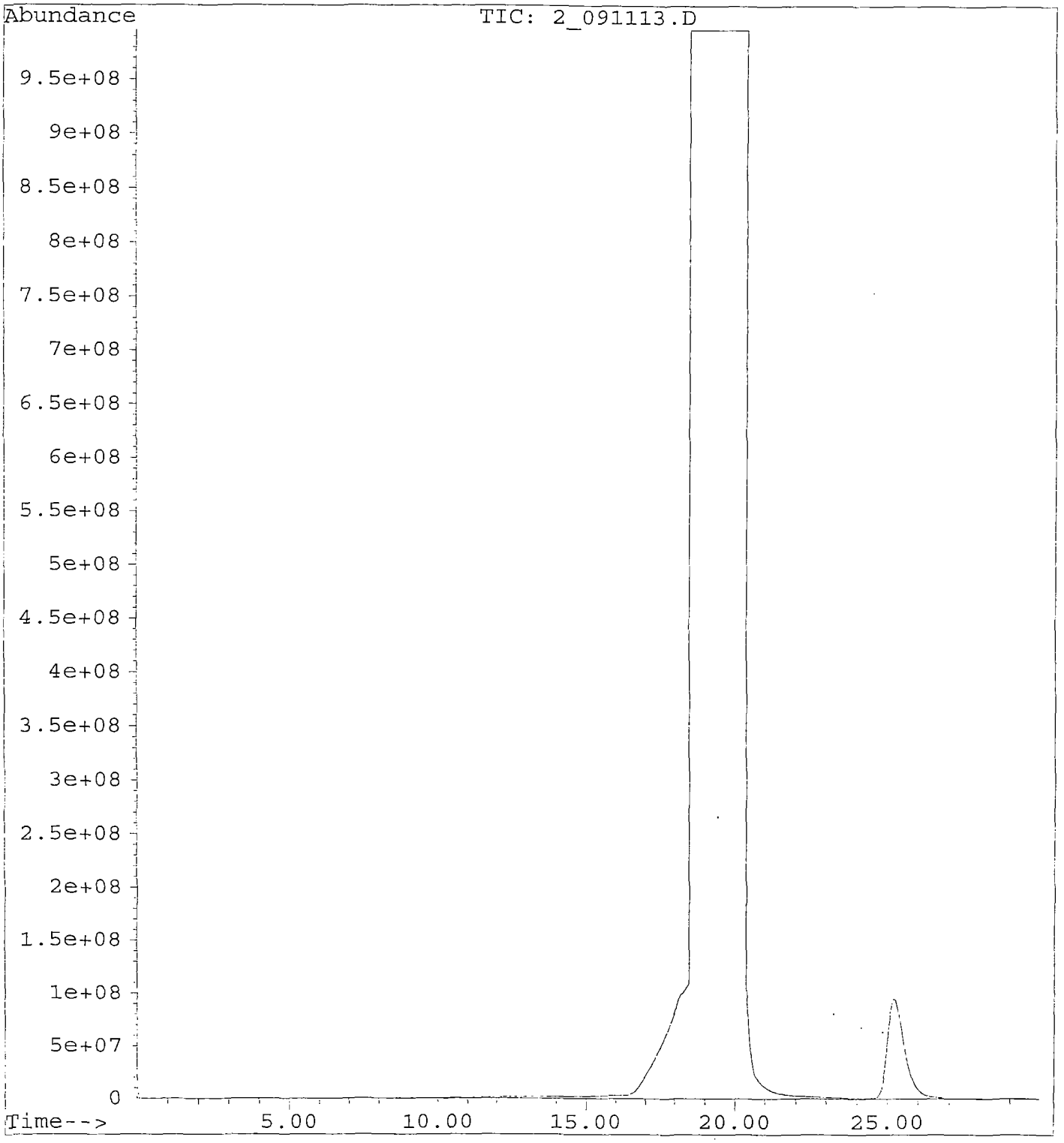
File : C:\HPCHEM\6\DATA\091101\2_091111.D
Operator : CR COL# 364134
Acquired : 11 Sep 01 20:26 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: LD0908SA-EPA
Misc Info : COL# 364134
Vial Number: 11



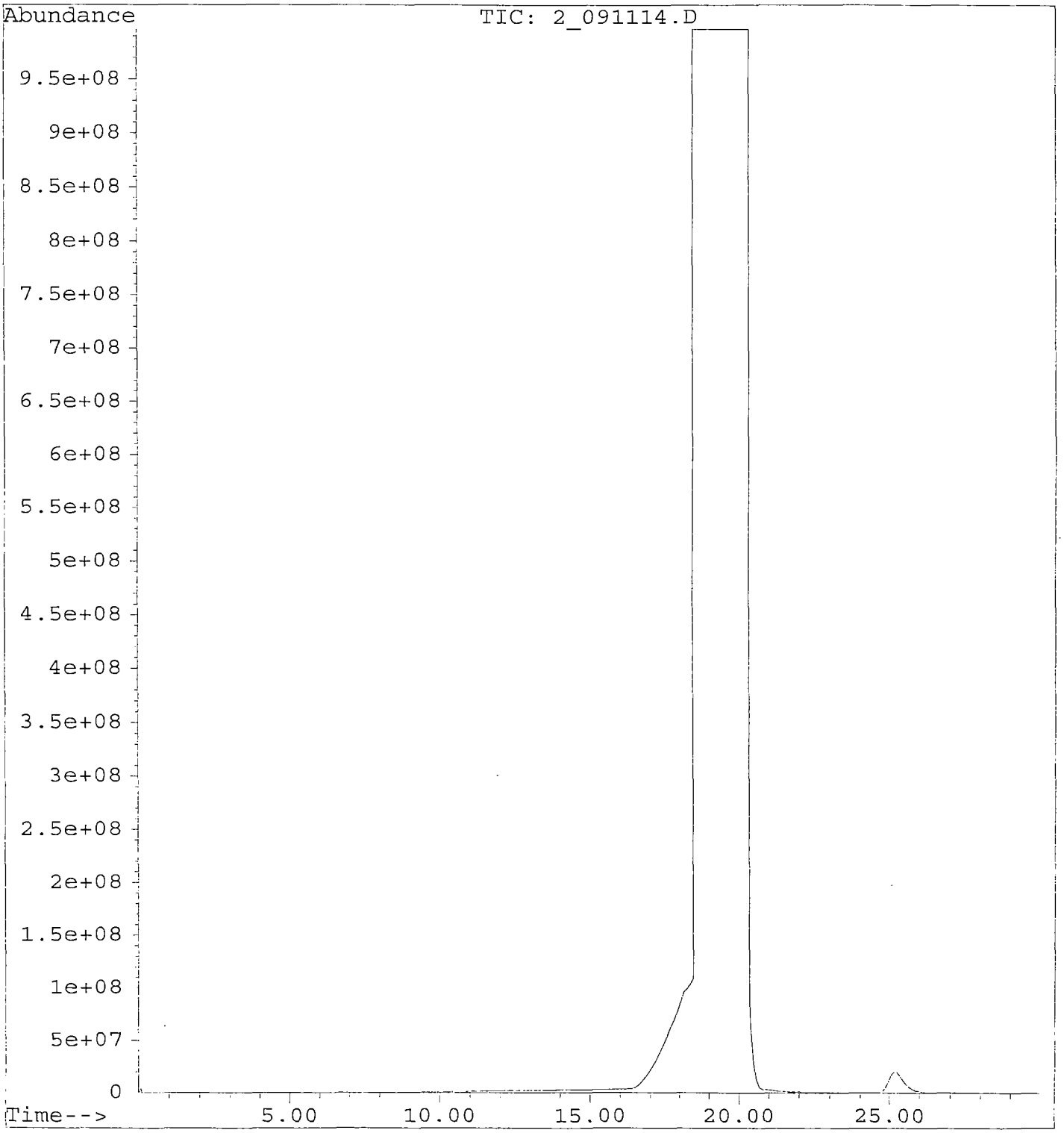
File : C:\HPCHEM\6\DATA\091101\2_091112.D
Operator : CR COL# 364134
Acquired : 11 Sep 01 20:57 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47452.04-E04F2-EPA
Misc Info : COL# 364134
Vial Number: 12



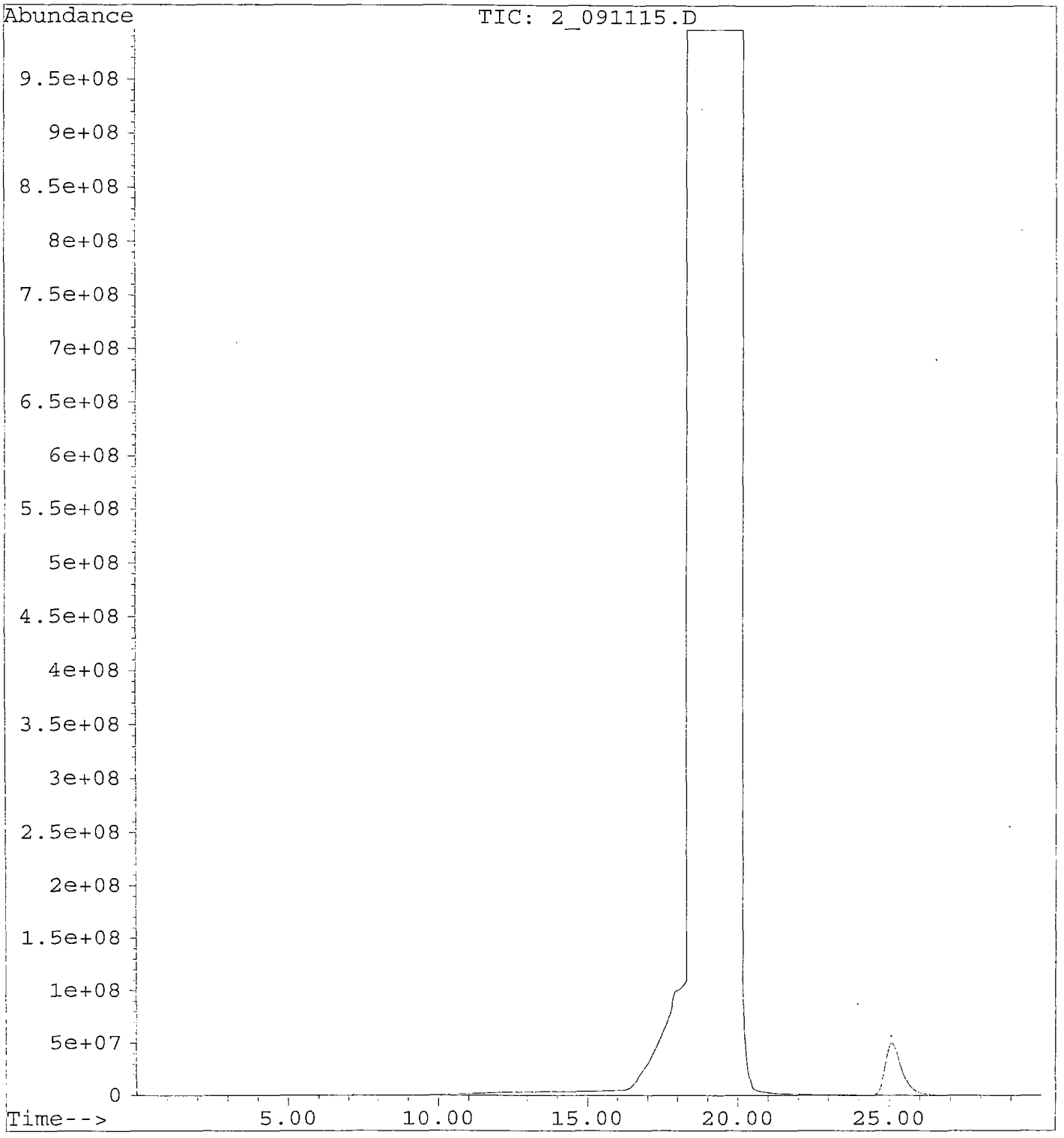
File : C:\HPCHEM\6\DATA\091101\2_091113.D
Operator : CR COL# 364134
Acquired : 11 Sep 01 21:28 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47452.12-E04G0-EPA
Misc Info : COL# 364134
Vial Number: 13



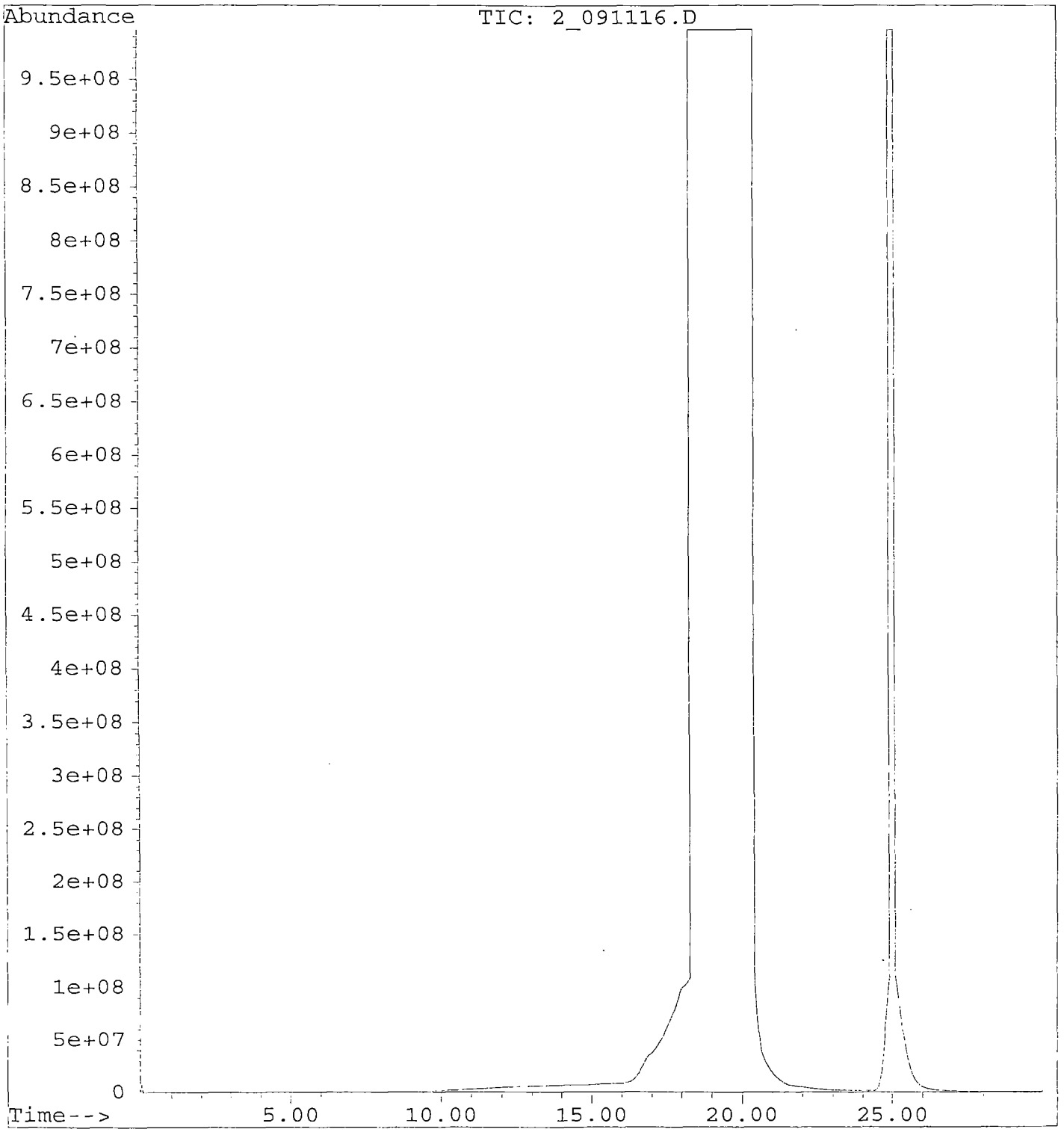
File : C:\HPCHEM\6\DATA\091101\2_091114.D
Operator : CR COL# 364134
Acquired : 11 Sep 01 21:59 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47452.09-E04F7-EPA
Misc Info : COL# 364134
Vial Number: 14



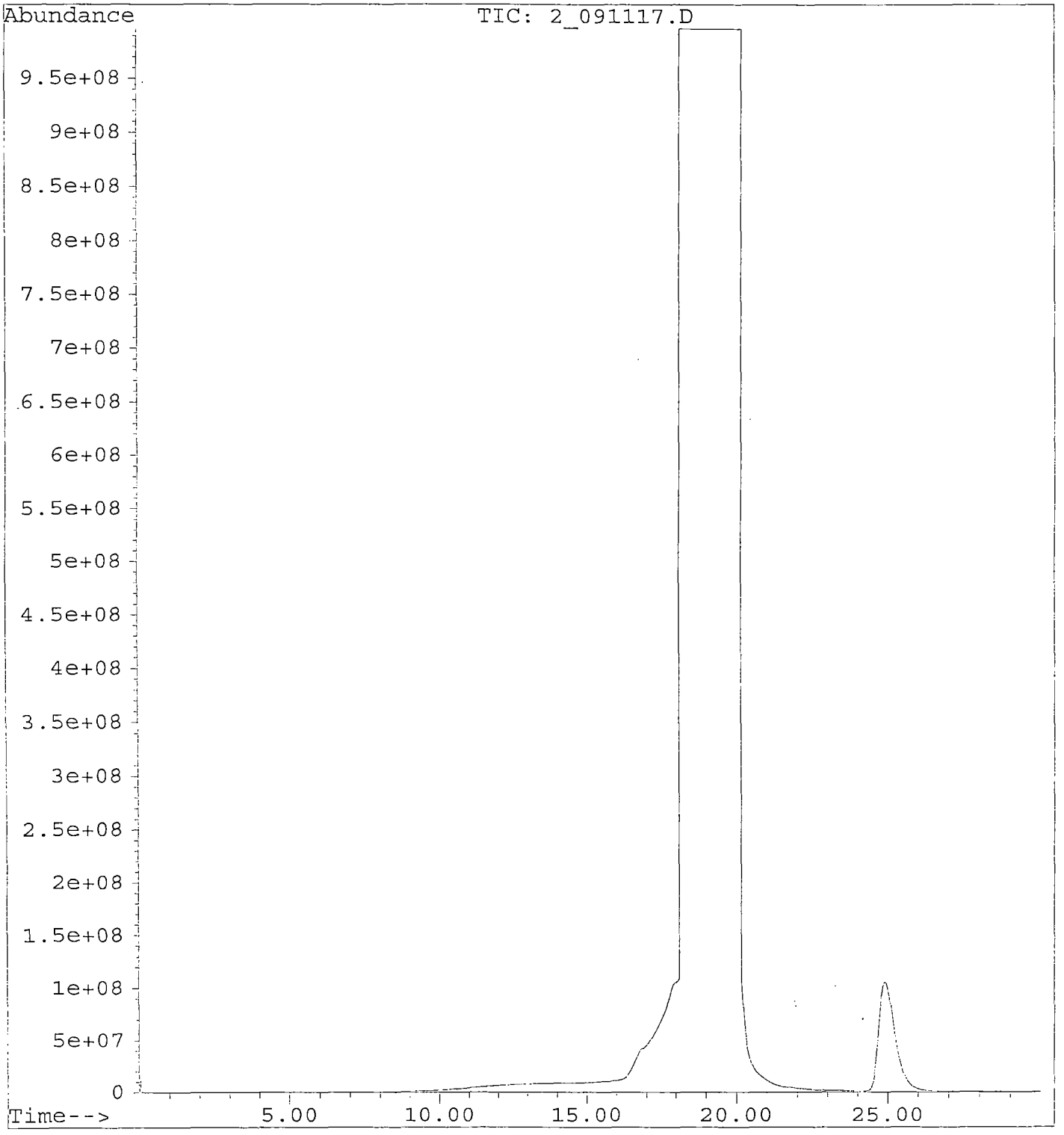
File : C:\HPCHEM\6\DATA\091101\2_091115.D
Operator : CR COL# 364134
Acquired : 11 Sep 01 22:31 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47452.20-E04G8-EPA
Misc Info : COL# 364134
Vial Number: 15



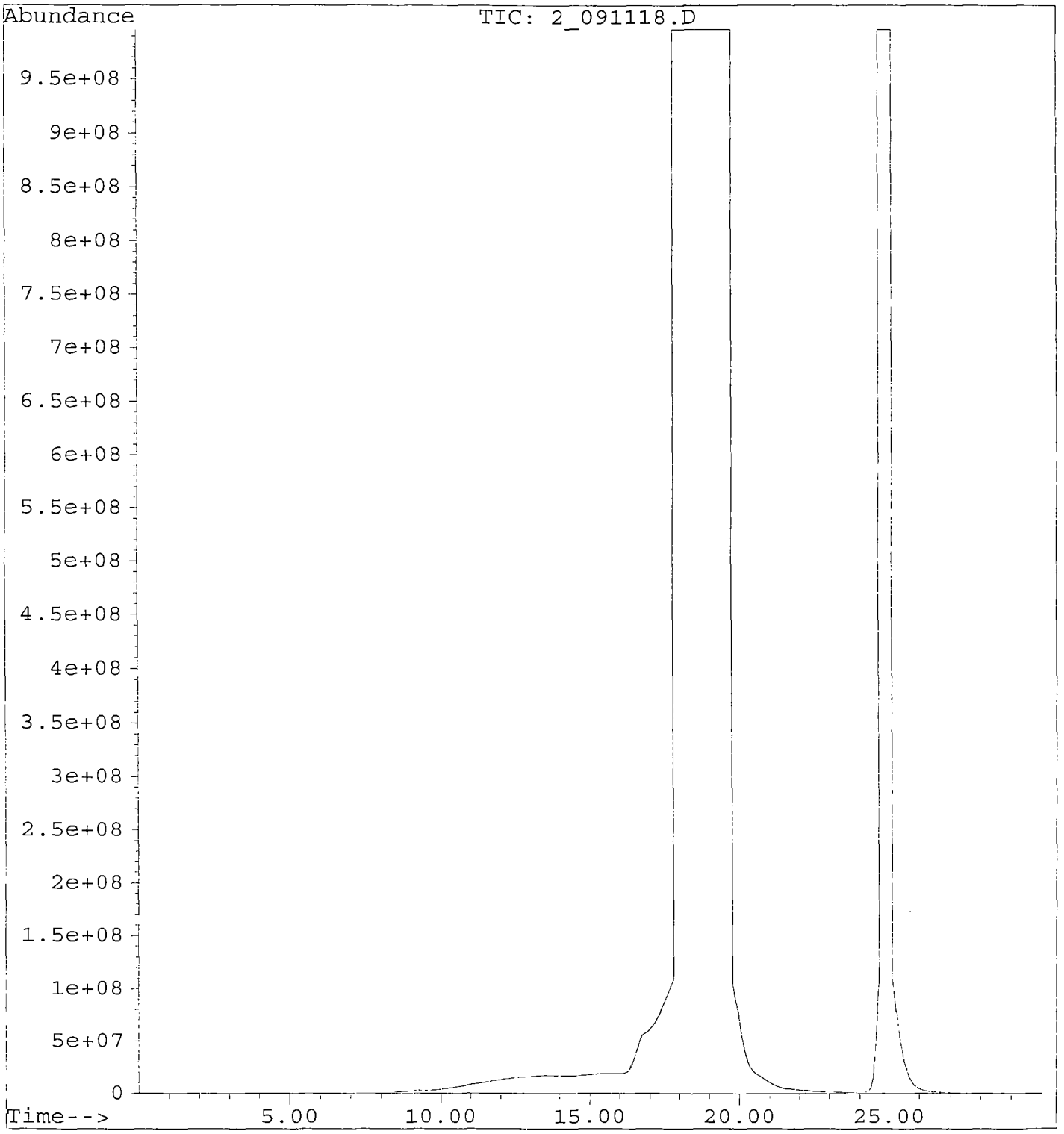
File : C:\HPCHEM\6\DATA\091101\2_091116.D
Operator : CR COL# 364134
Acquired : 11 Sep 01 23:02 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47452.08-E04F6-EPA
Misc Info : COL# 364134
Vial Number: 16



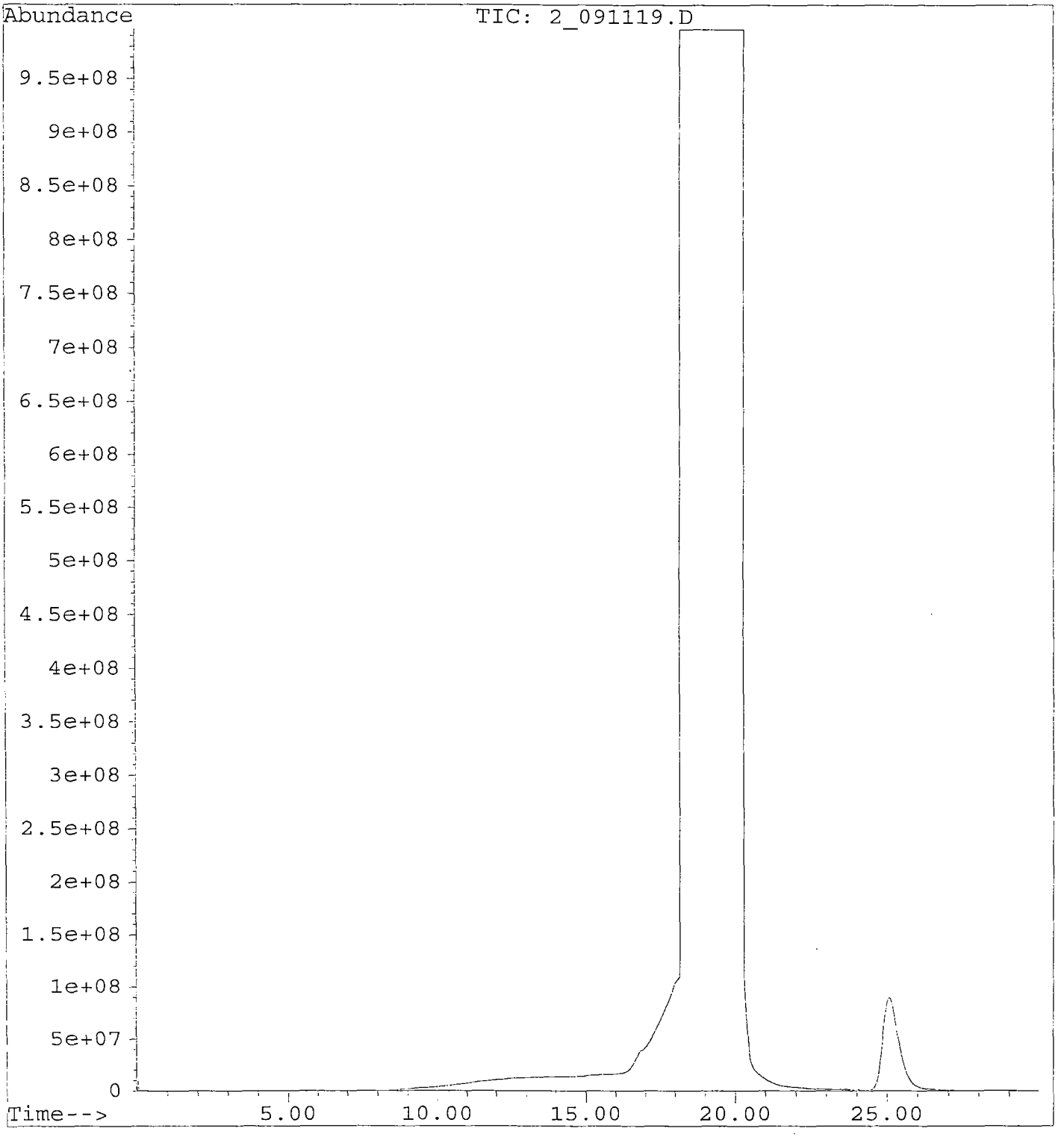
File : C:\HPCHEM\6\DATA\091101\2_091117.D
Operator : CR COL# 364134
Acquired : 11 Sep 01 23:33 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47452.17-E04G5-EPA
Misc Info : COL# 364134
Vial Number: 17



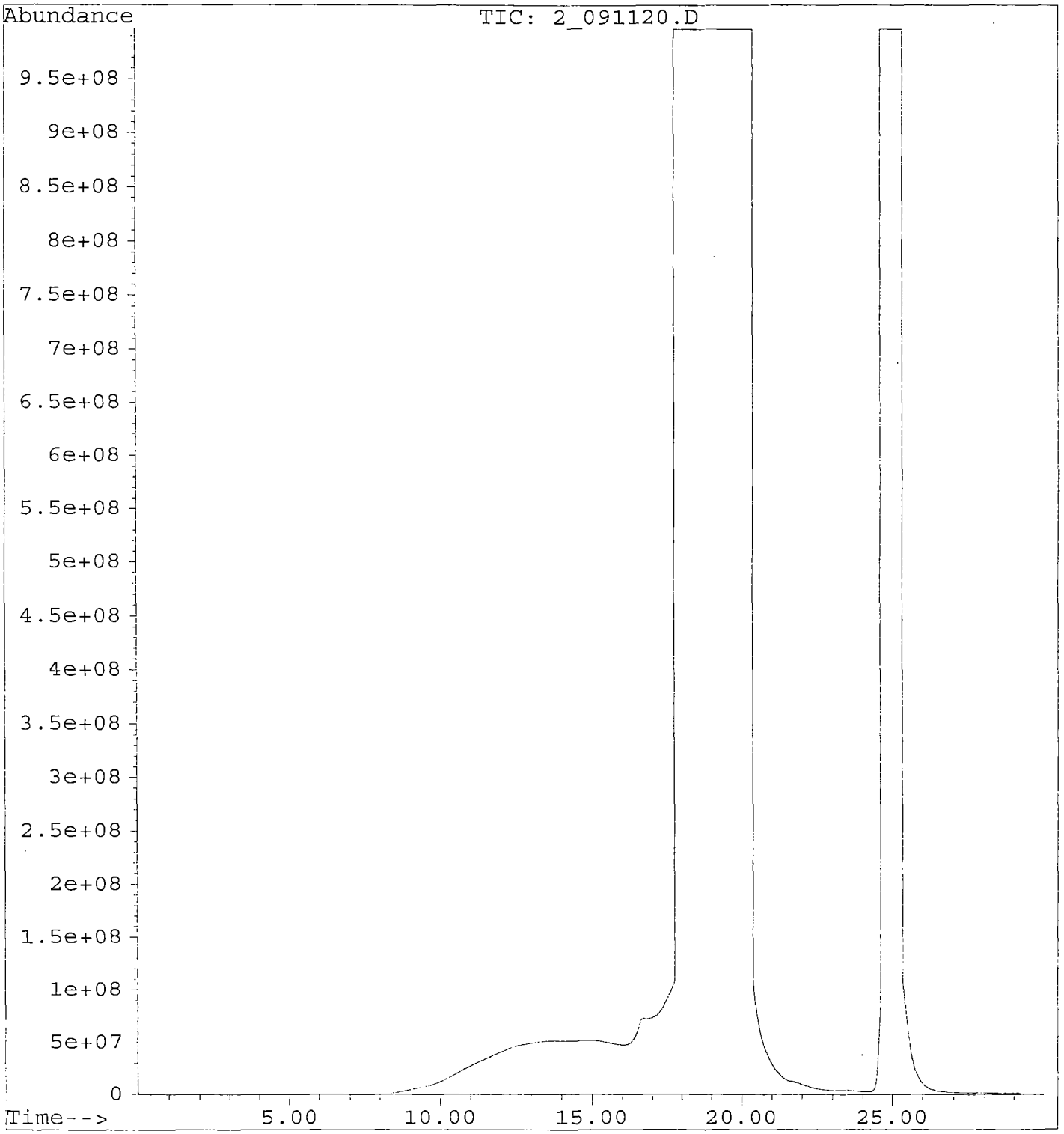
File : C:\HPCHEM\6\DATA\091101\2_091118.D
Operator : CR COL# 364134
Acquired : 12 Sep 01 00:04 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47452.16-E04G4-EPA
Misc Info : COL# 364134
Vial Number: 18



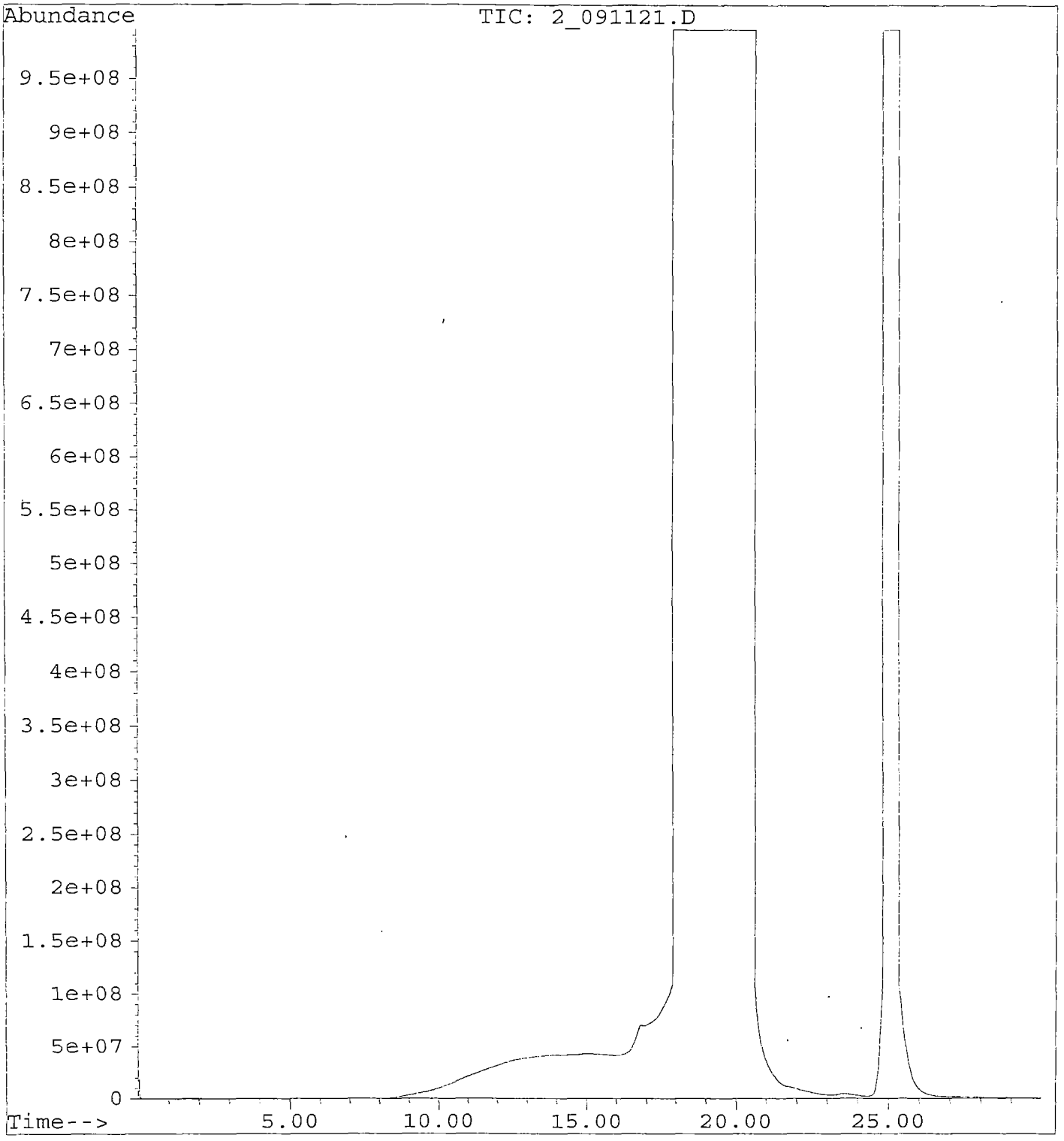
File : C:\HPCHEM\6\DATA\091101\2_091119.D
Operator : CR COL# 364134
Acquired : 12 Sep 01 00:35 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47452.13-E04G1-EPA
Misc Info : COL# 364134
Vial Number: 19



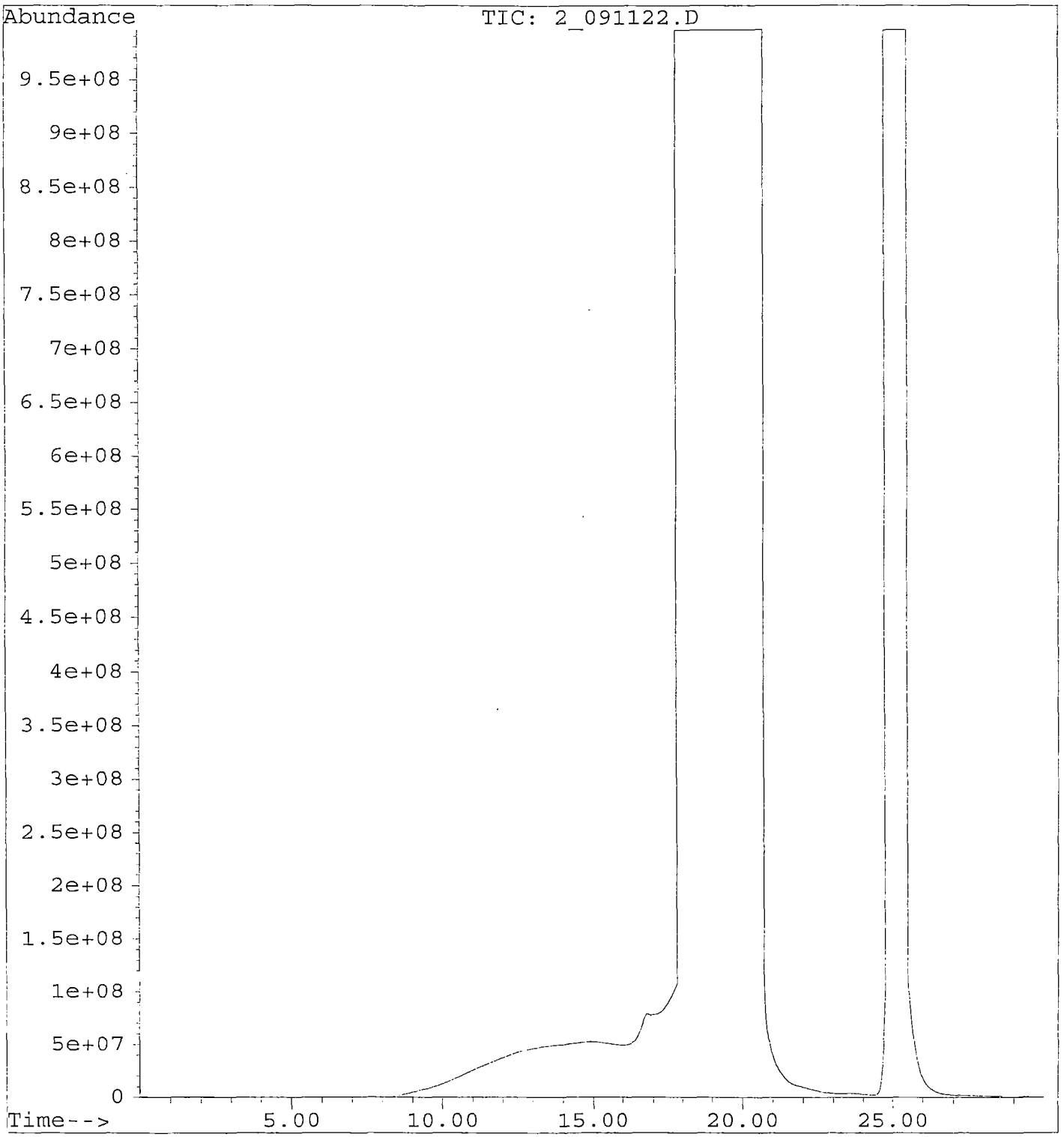
File : C:\HPCHEM\6\DATA\091101\2_091120.D
Operator : CR COL# 364134
Acquired : 12 Sep 01 01:06 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47452.22-E04H0-EPA
Misc Info : COL# 364134
Vial Number: 20



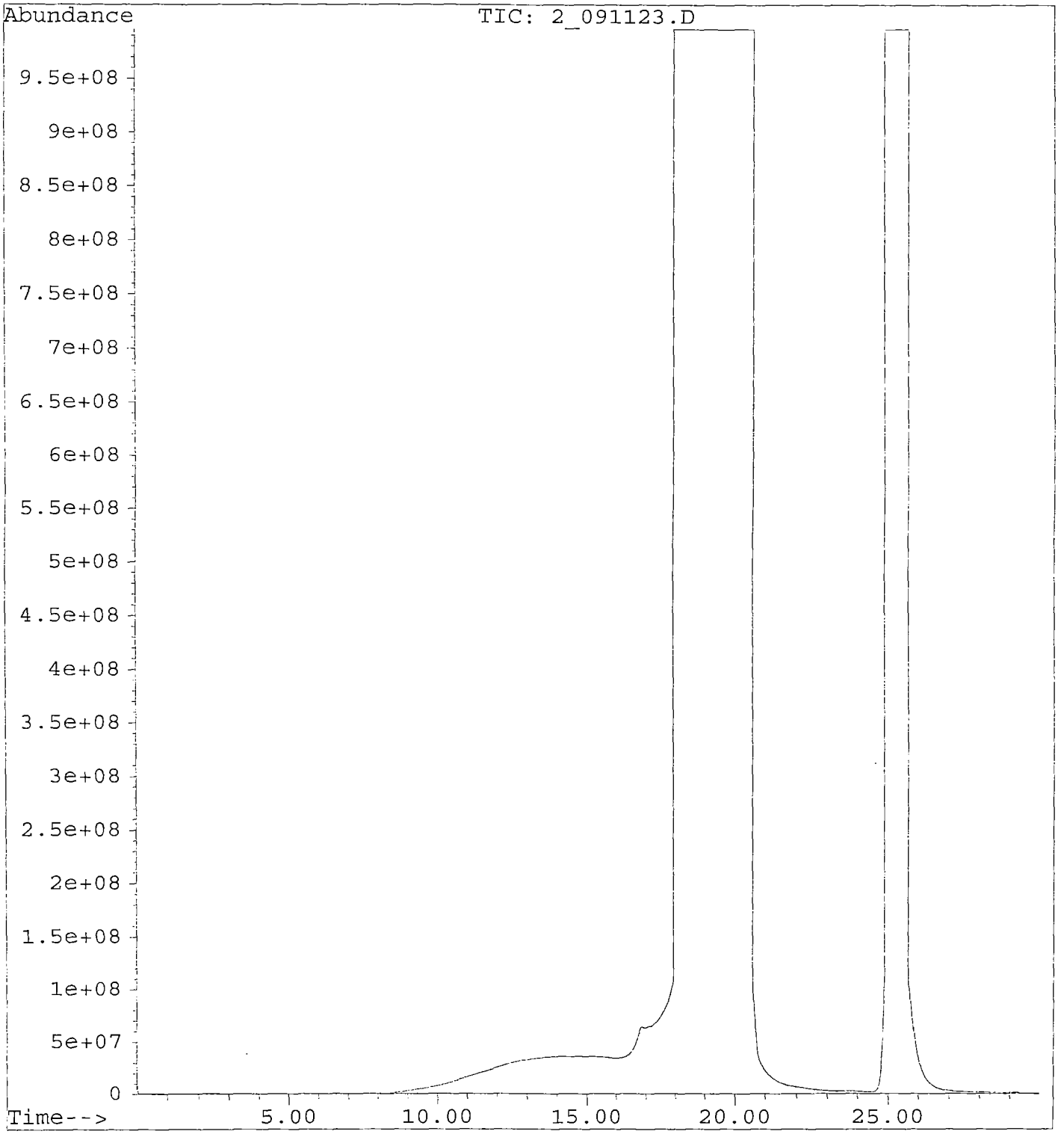
File : C:\HPCHEM\6\DATA\091101\2_091121.D
Operator : CR COL# 364134
Acquired : 12 Sep 01 01:37 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47452.15-E04G3-EPA
Misc Info : COL# 364134
Vial Number: 21



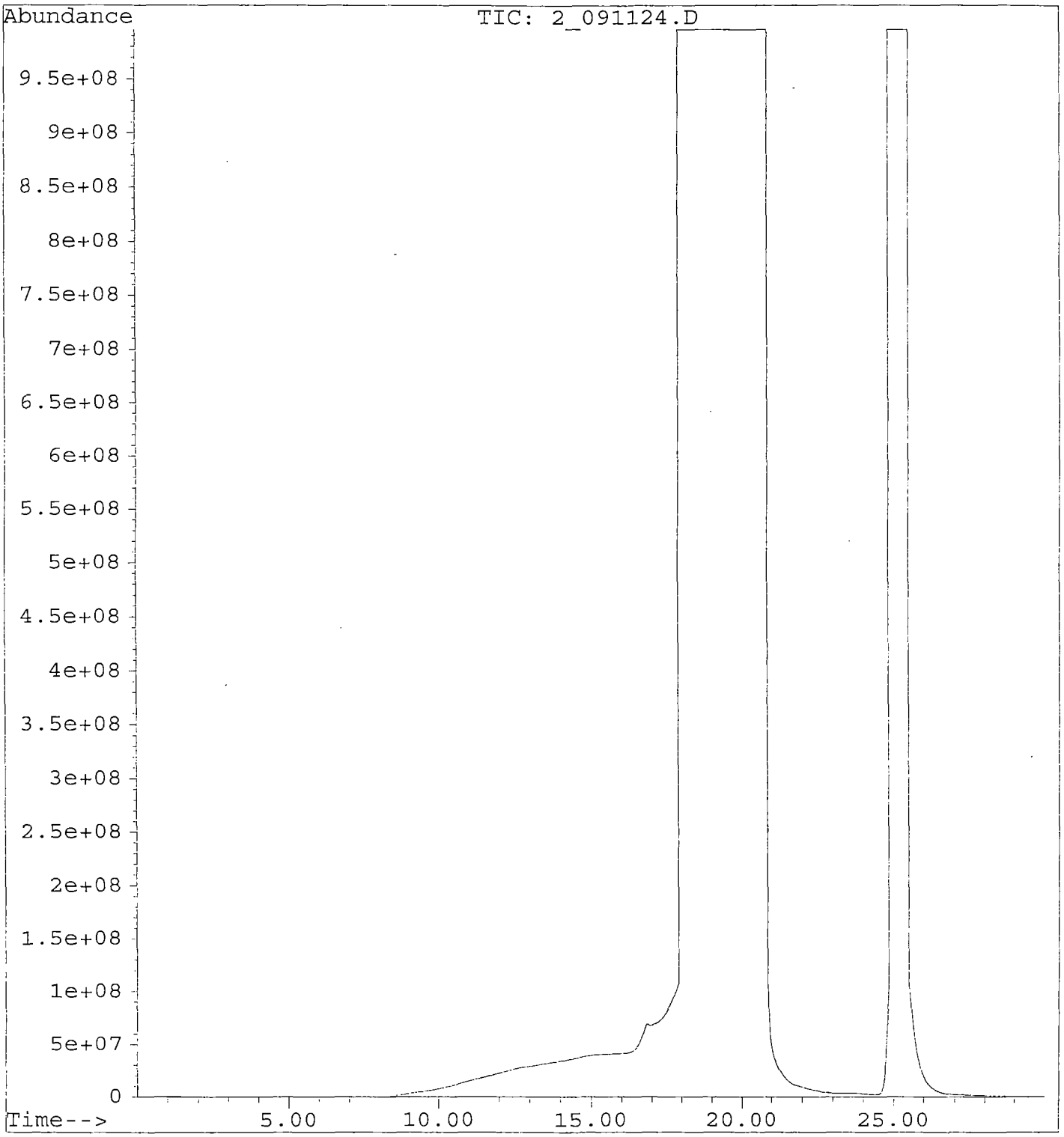
File : C:\HPCHEM\6\DATA\091101\2_091122.D
Operator : CR COL# 364134
Acquired : 12 Sep 01 02:08 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47452.14-E04G2-EPA
Misc Info : COL# 364134
Vial Number: 22



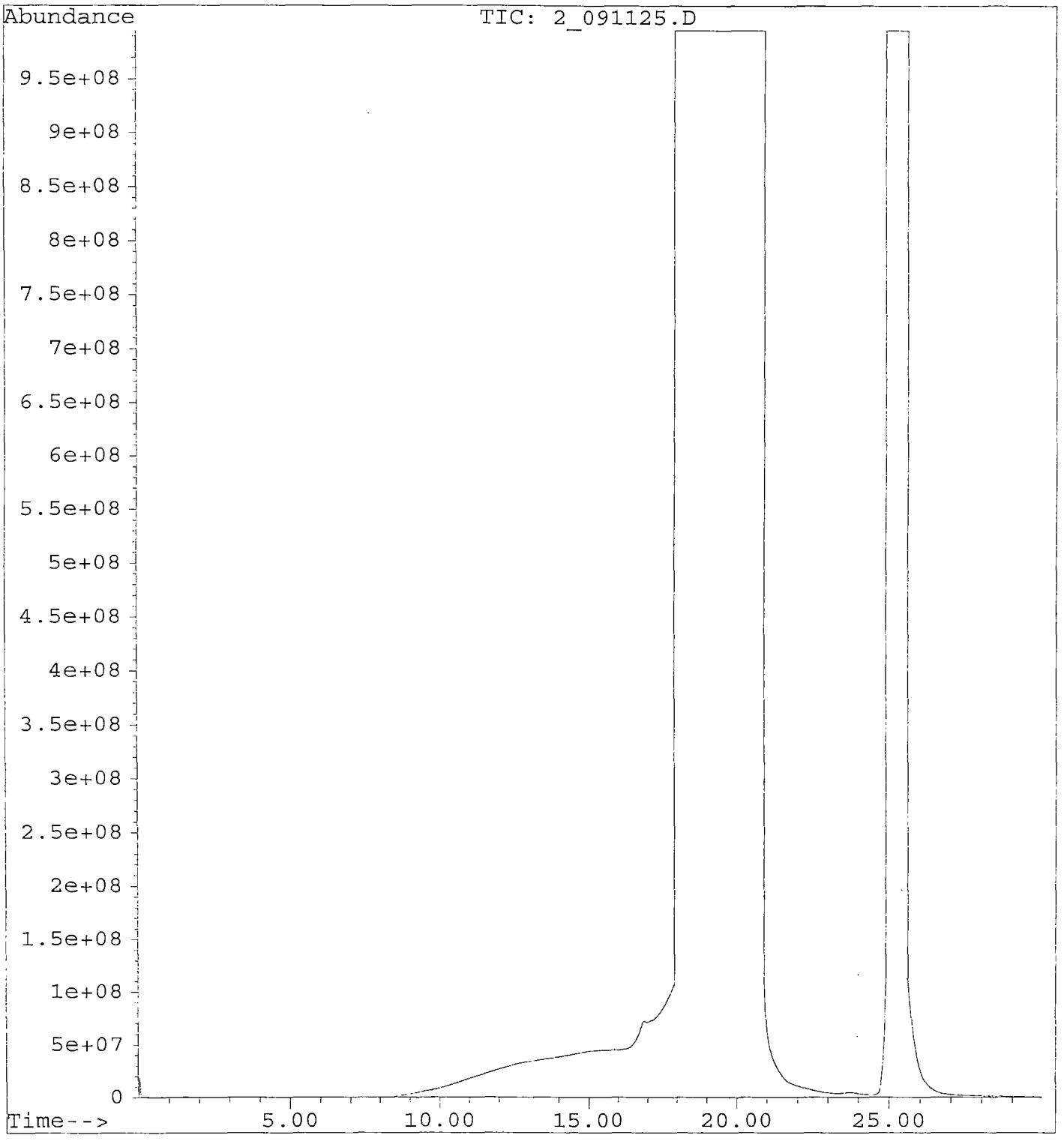
File : C:\HPCHEM\6\DATA\091101\2_091123.D
Operator : CR COL# 364134
Acquired : 12 Sep 01 02:39 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47452.18-E04G6-EPA
Misc Info : COL# 364134
Vial Number: 23



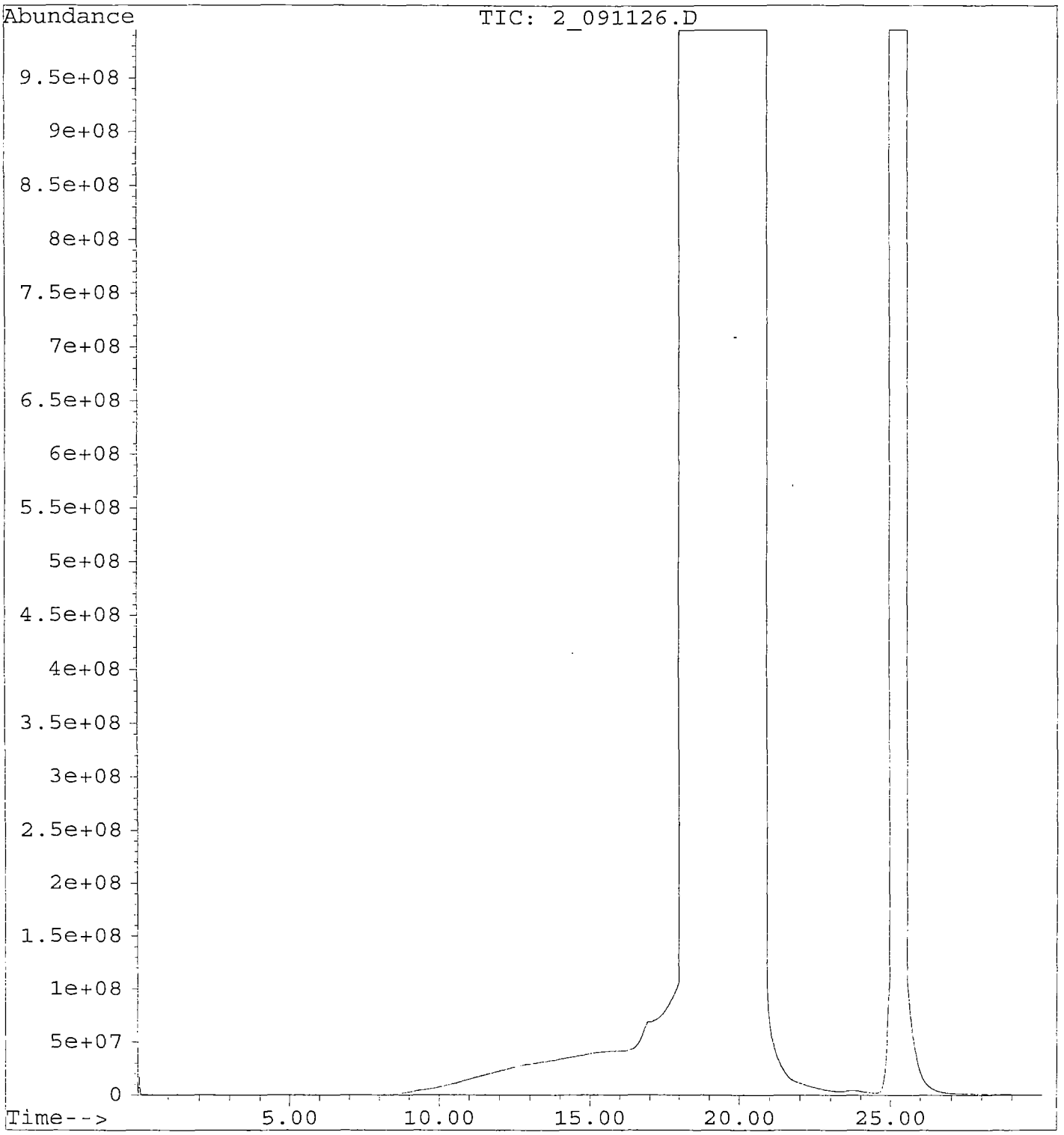
File : C:\HPCHEM\6\DATA\091101\2_091124.D
Operator : CR COL# 364134
Acquired : 12 Sep 01 03:10 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47452.06-E04F4-EPA
Misc Info : COL# 364134
Vial Number: 24



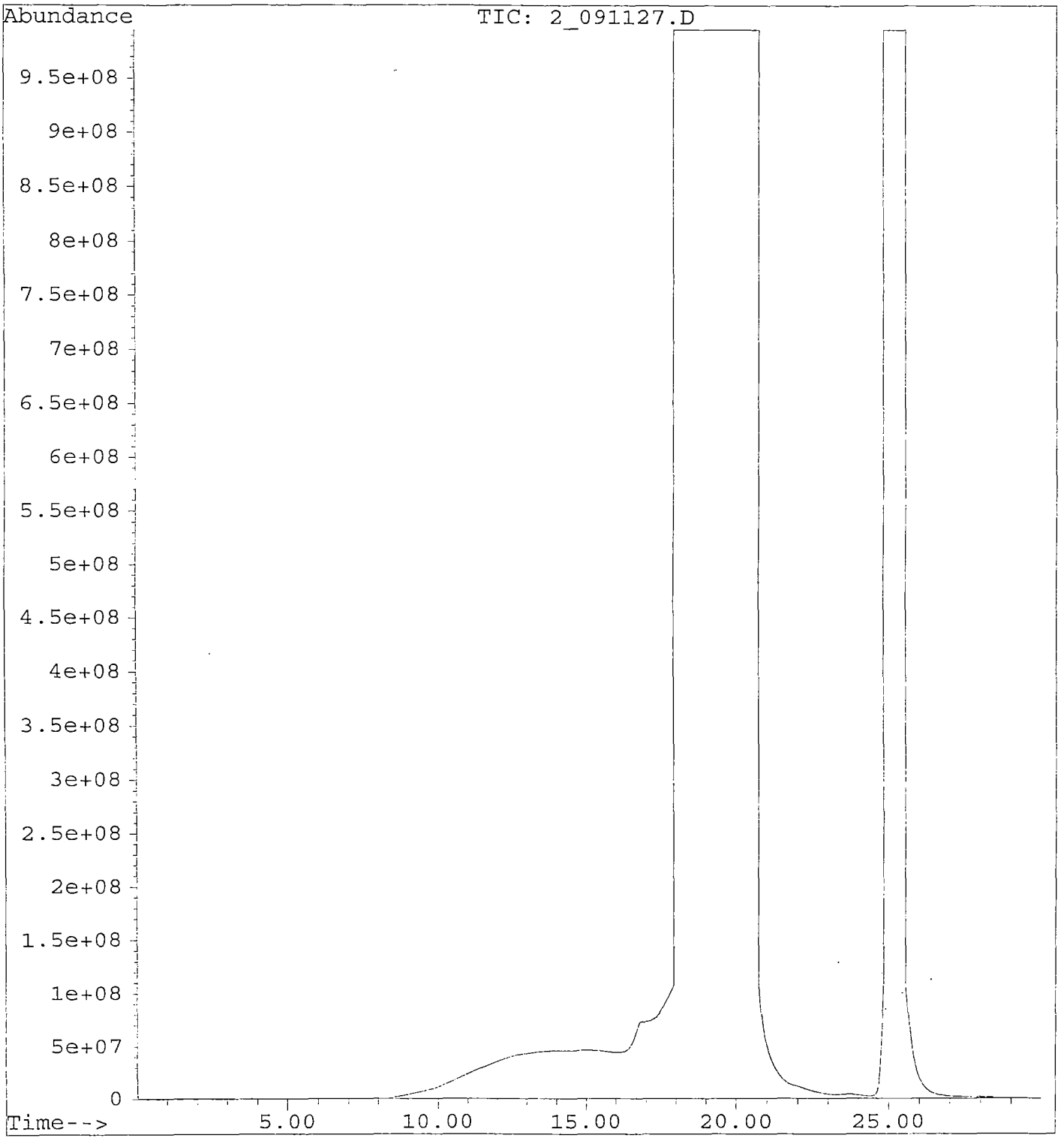
File : C:\HPCHEM\6\DATA\091101\2_091125.D
Operator : CR COL# 364134
Acquired : 12 Sep 01 03:42 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47452.10-E04F8-EPA
Misc Info : COL# 364134
Vial Number: 25



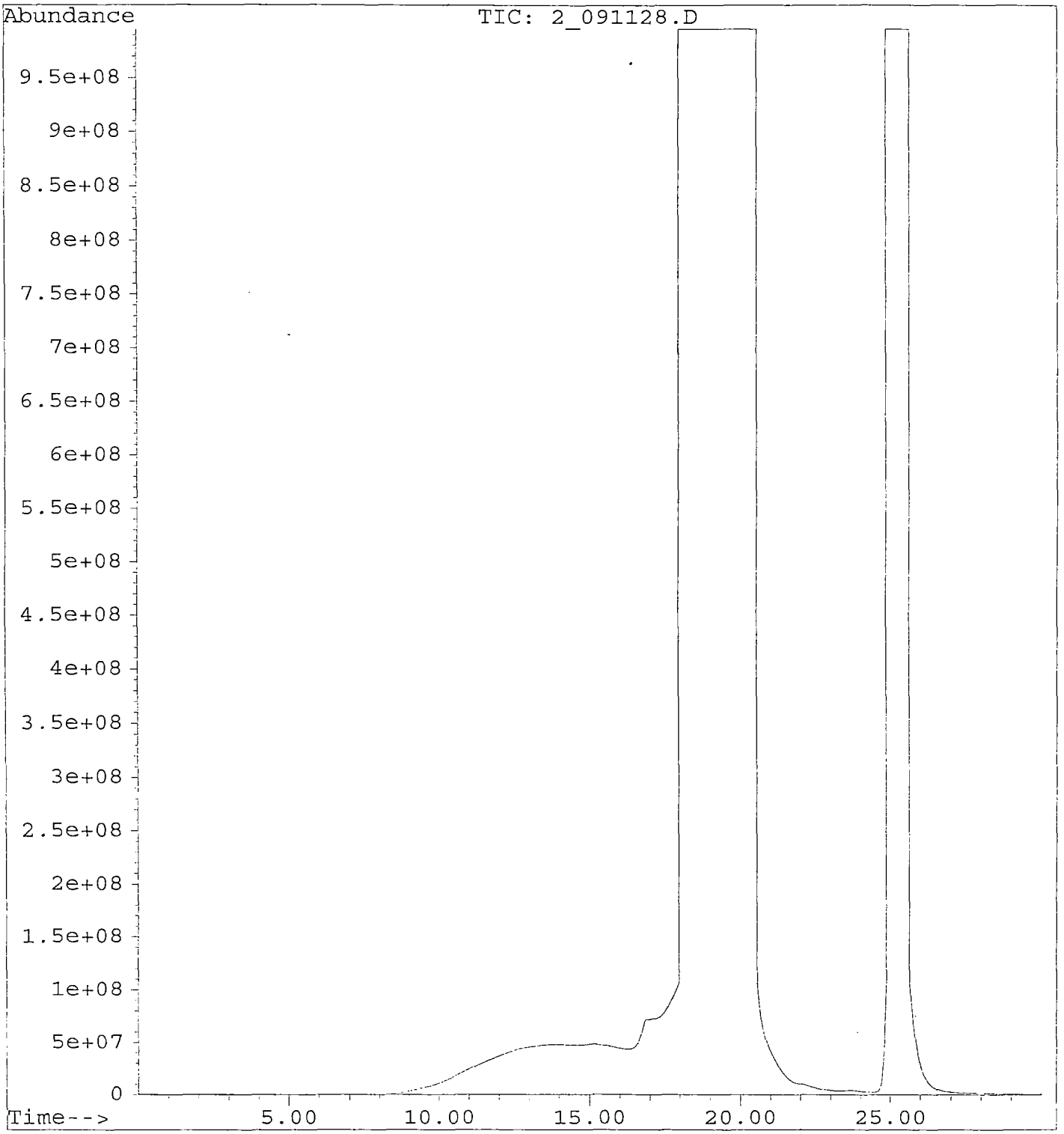
File : C:\HPCHEM\6\DATA\091101\2_091126.D
Operator : CR COL# 364134
Acquired : 12 Sep 01 04:13 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47452.07-E04F5-EPA
Misc Info : COL# 364134
Vial Number: 26



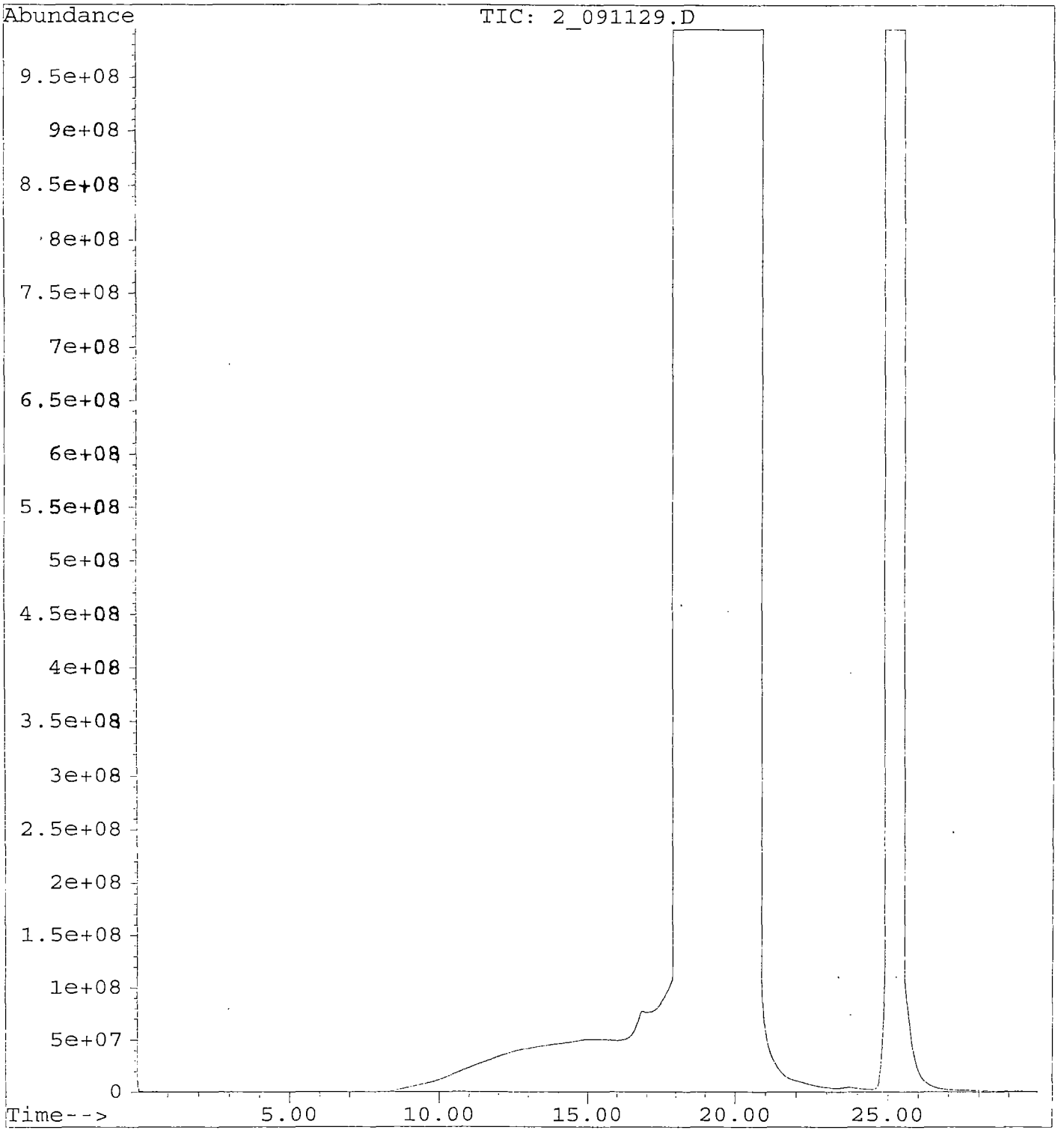
File : C:\HPCHEM\6\DATA\091101\2_091127.D
Operator : CR COL# 364134
Acquired : 12 Sep 01 04:44 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47452.19-E04G7-EPA
Misc Info : COL# 364134
Vial Number: 27



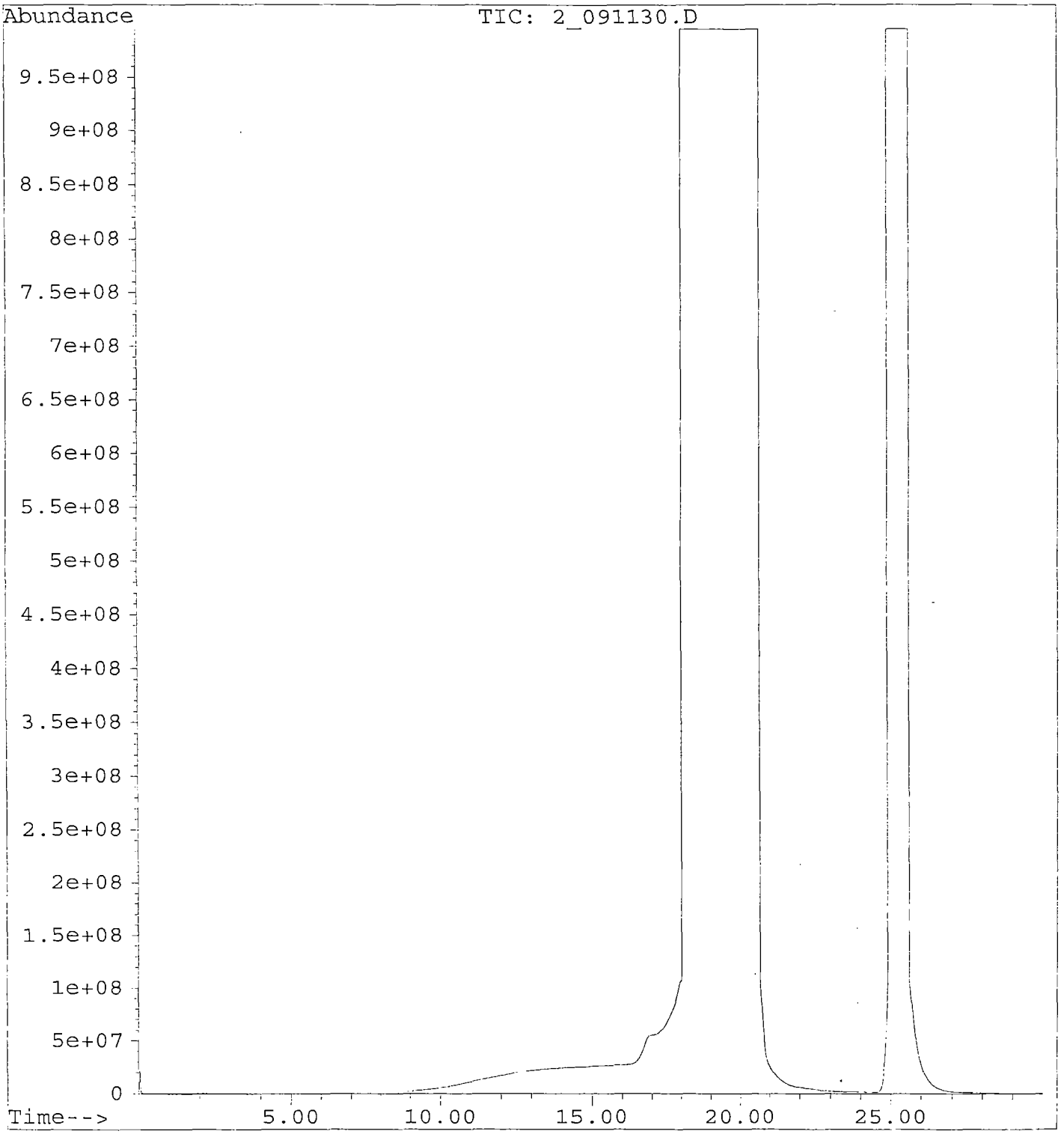
File : C:\HPCHEM\6\DATA\091101\2_091128.D
Operator : CR COL# 364134
Acquired : 12 Sep 01 05:15 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47452.11-E04F9-EPA
Misc Info : COL# 364134
Vial Number: 28



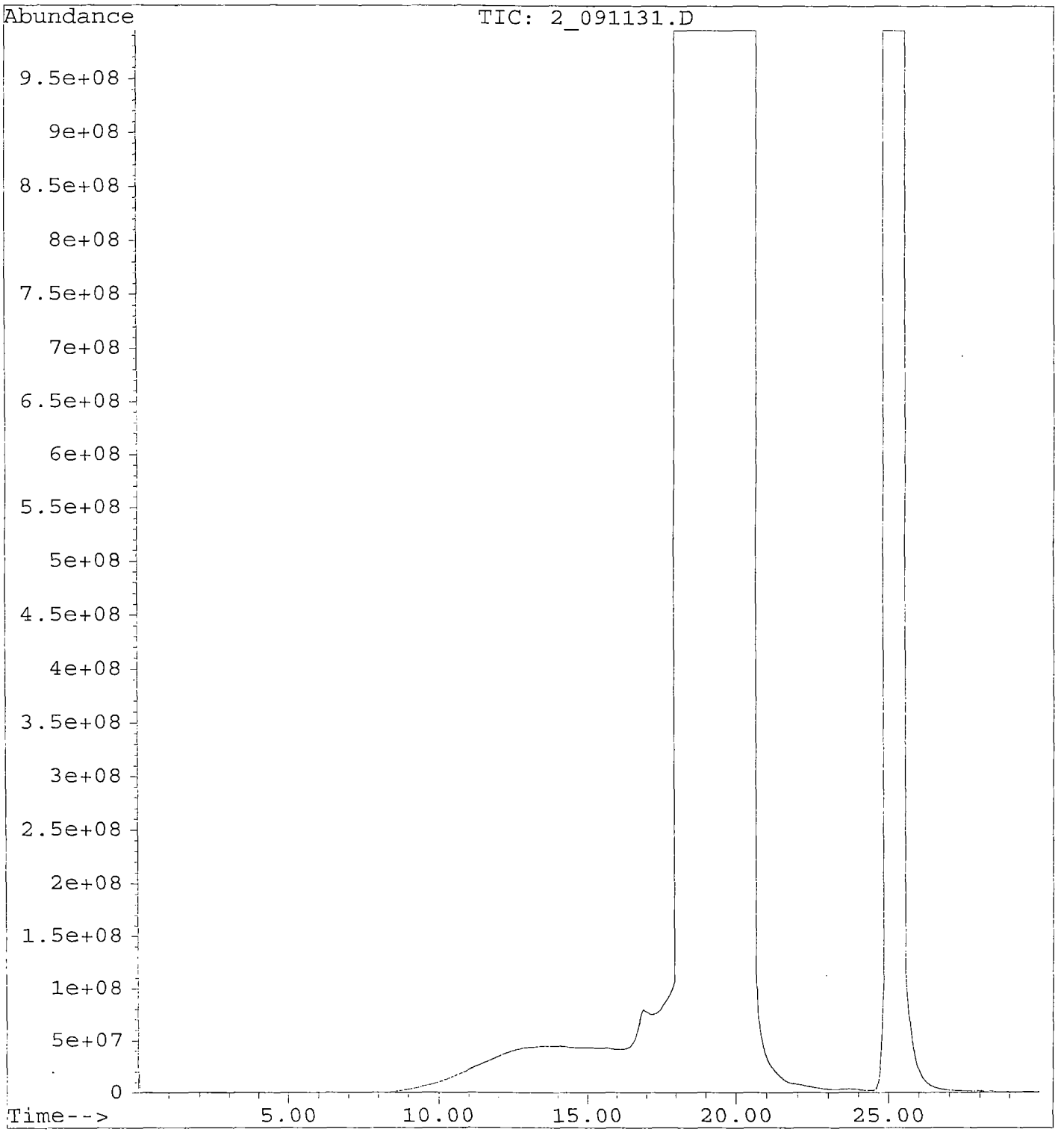
File : C:\HPCHEM\6\DATA\091101\2_091129.D
Operator : CR COL# 364134
Acquired : 12 Sep 01 05:46 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47452.21-E04G9-EPA
Misc Info : COL# 364134
Vial Number: 29



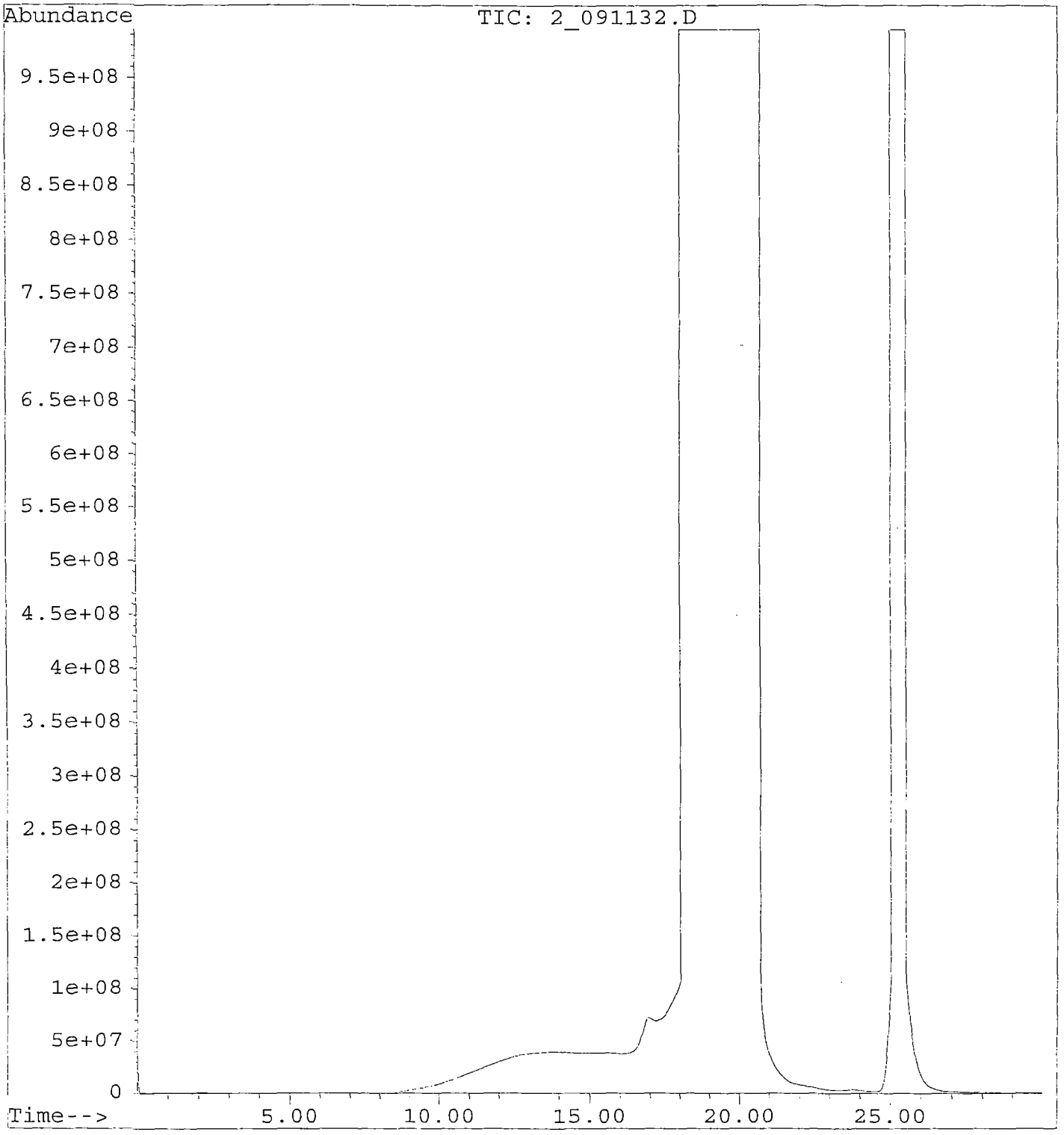
File : C:\HPCHEM\6\DATA\091101\2_091130.D
Operator : CR COL# 364134
Acquired : 12 Sep 01 06:17 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47452.05-E04F3-EPA
Misc Info : COL# 364134
Vial Number: 30



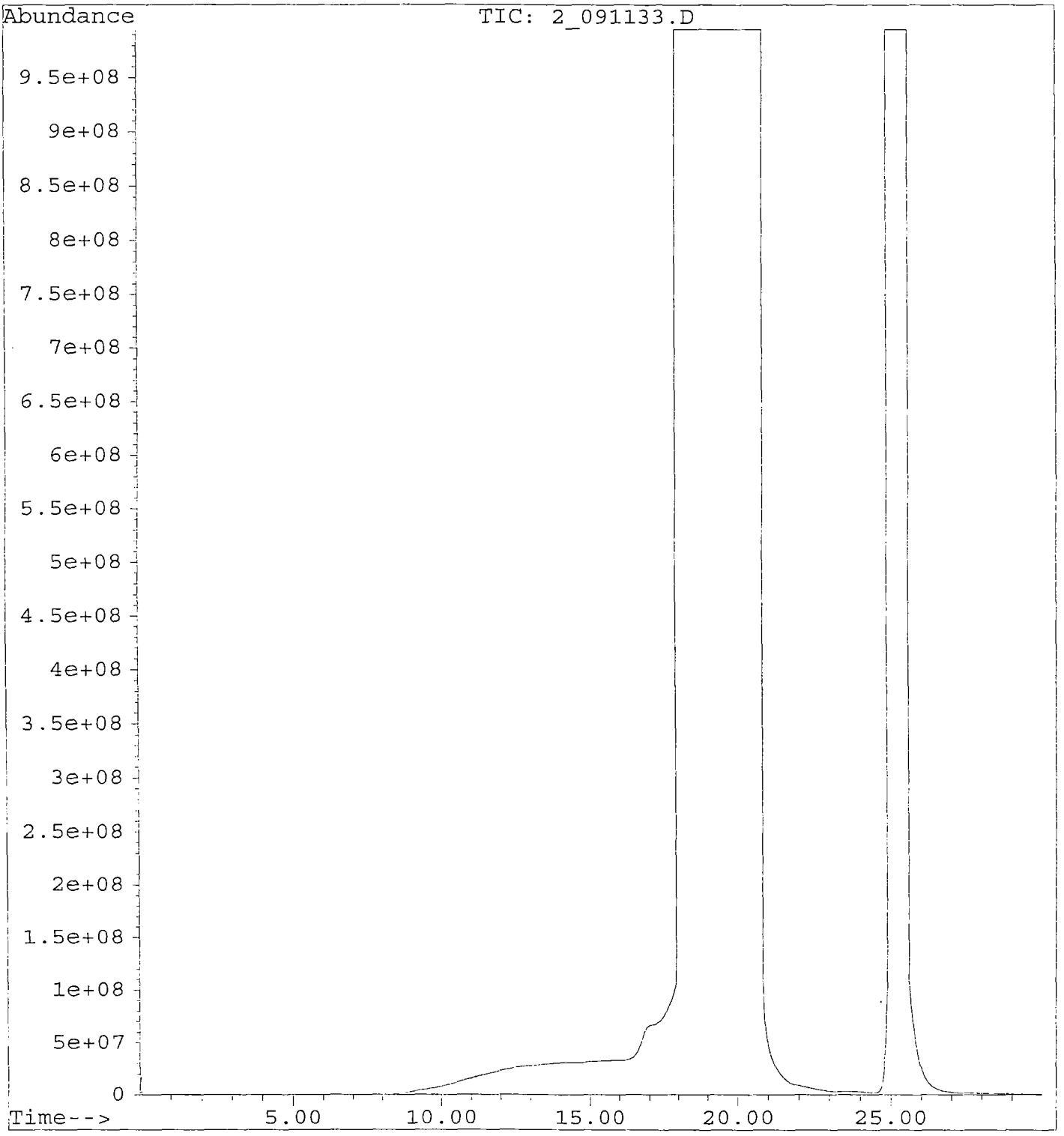
File : C:\HPCHEM\6\DATA\091101\2_091131.D
Operator : CR COL# 364134
Acquired : 12 Sep 01 06:48 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47452.01-E04F1-EPA
Misc Info : COL# 364134
Vial Number: 31



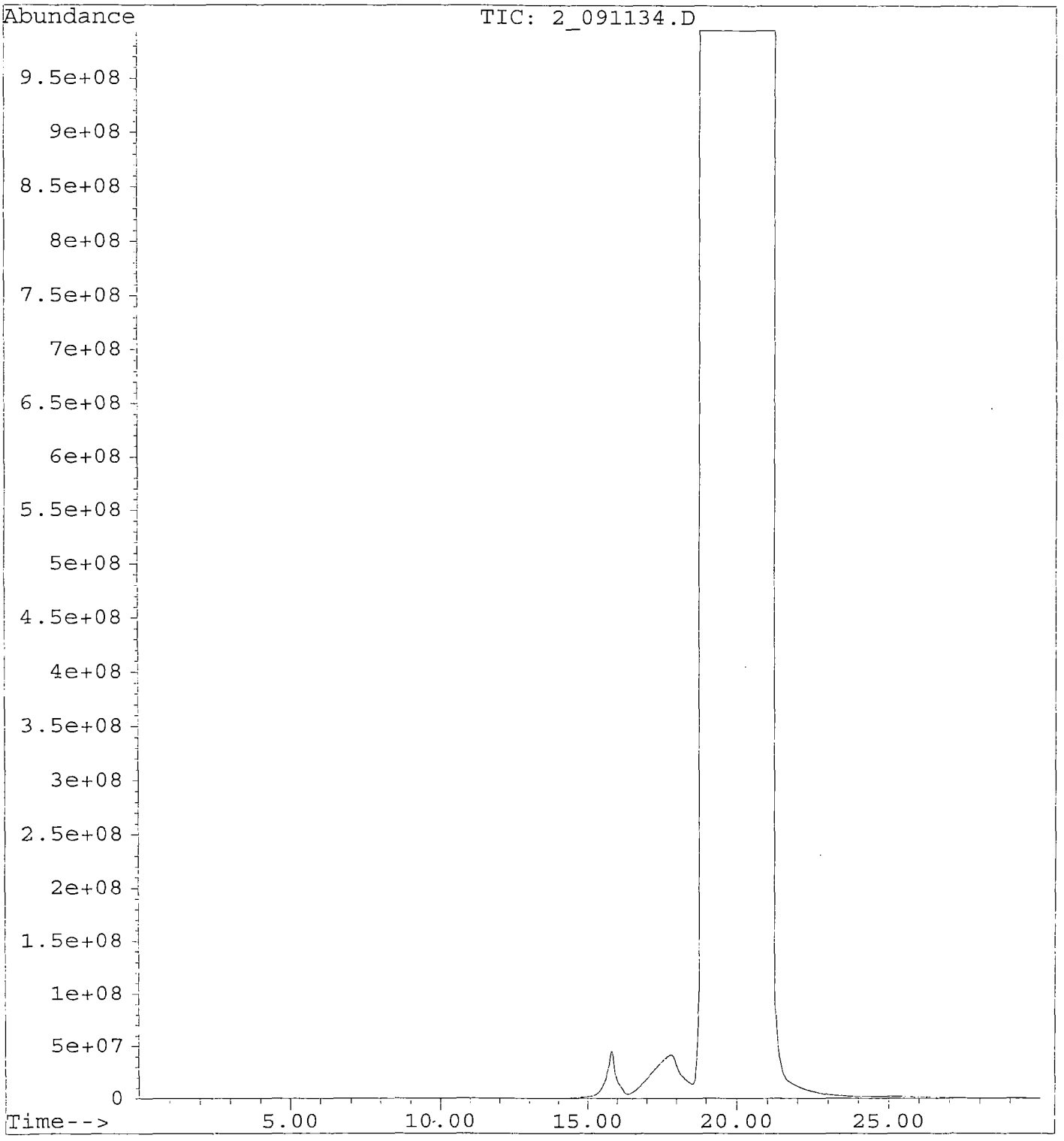
File : C:\HPCHEM\6\DATA\091101\2_091132.D
Operator : CR COL# 364134
Acquired : 12 Sep 01 07:19 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47452.02-E04F1MS-EPA
Misc Info : COL# 364134
Vial Number: 32



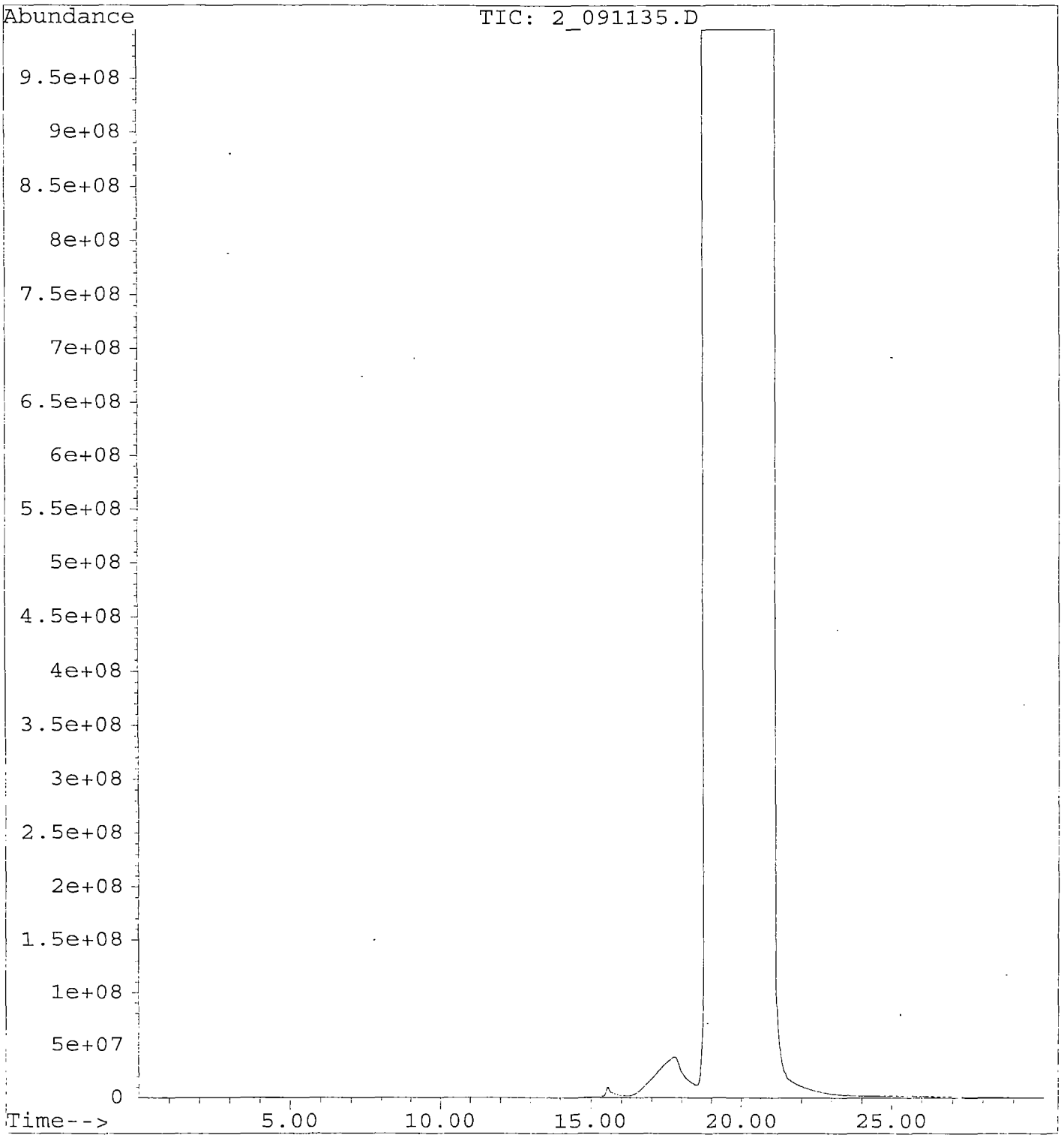
File : C:\HPCHEM\6\DATA\091101\2_091133.D
Operator : CR COL# 364134
Acquired : 12 Sep 01 07:50 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47452.03-E04F1MSD-EPA
Misc Info : COL# 364134
Vial Number: 33



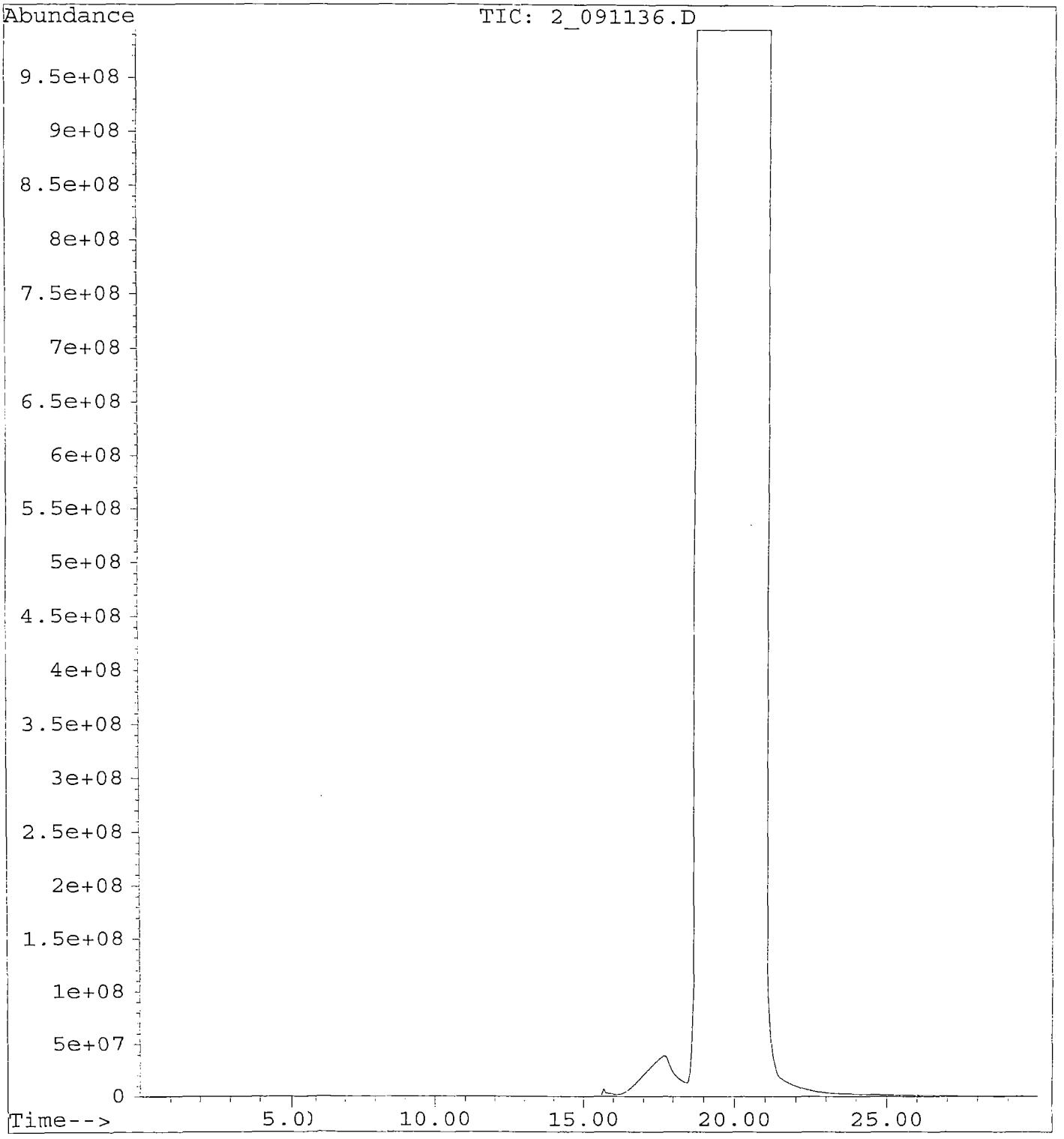
File : C:\HPCHEM\6\DATA\091101\2_091134.D
Operator : CR COL# 364134
Acquired : 12 Sep 01 08:21 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 34



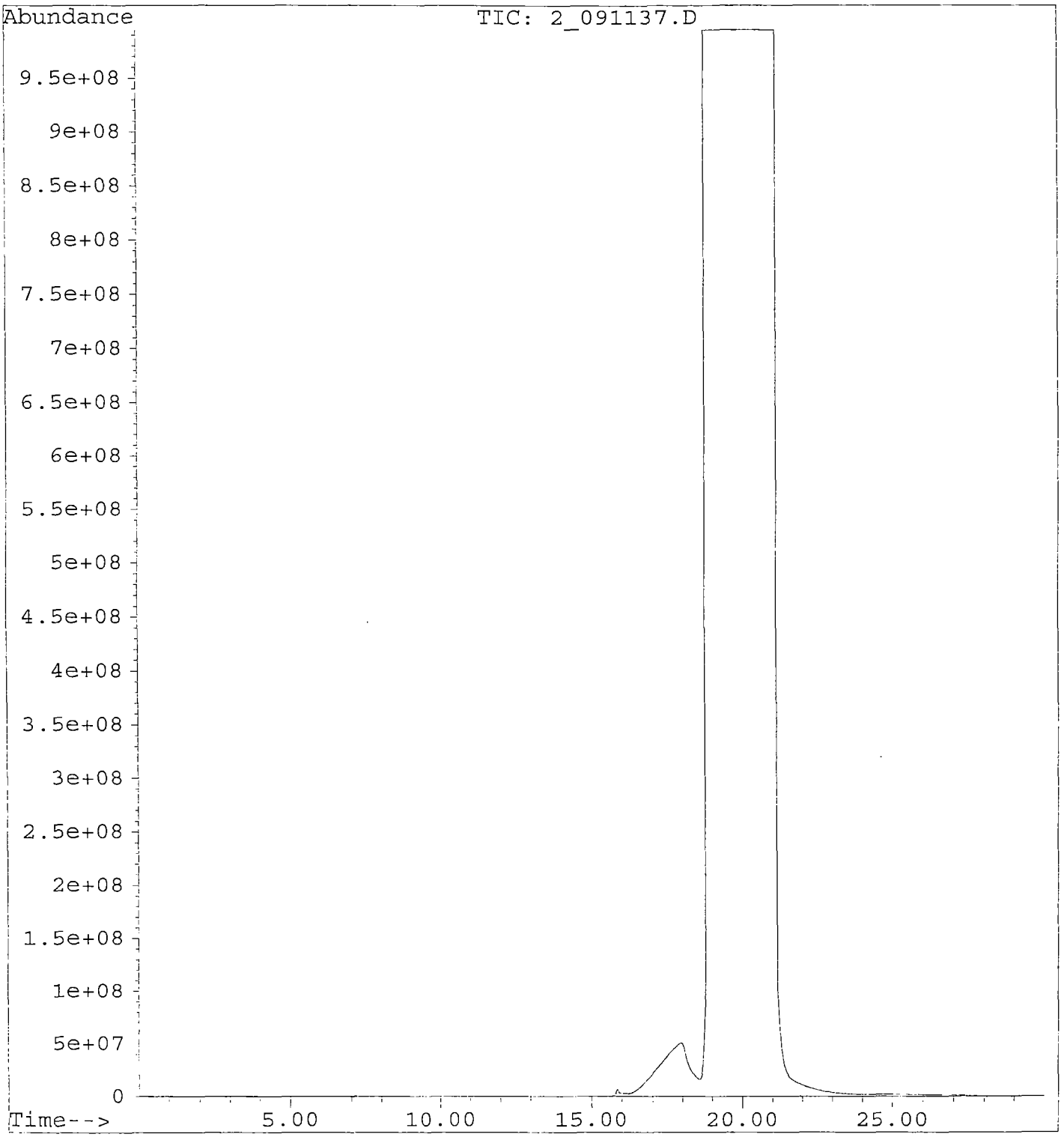
File : C:\HPCHEM\6\DATA\091101\2_091135.D
Operator : CR COL# 364134
Acquired : 12 Sep 01 08:53 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 35



File : C:\HPCHEM\6\DATA\091101\2_091136.D
Operator : CR COL# 364134
Acquired : 12 Sep 01 09:24 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 36

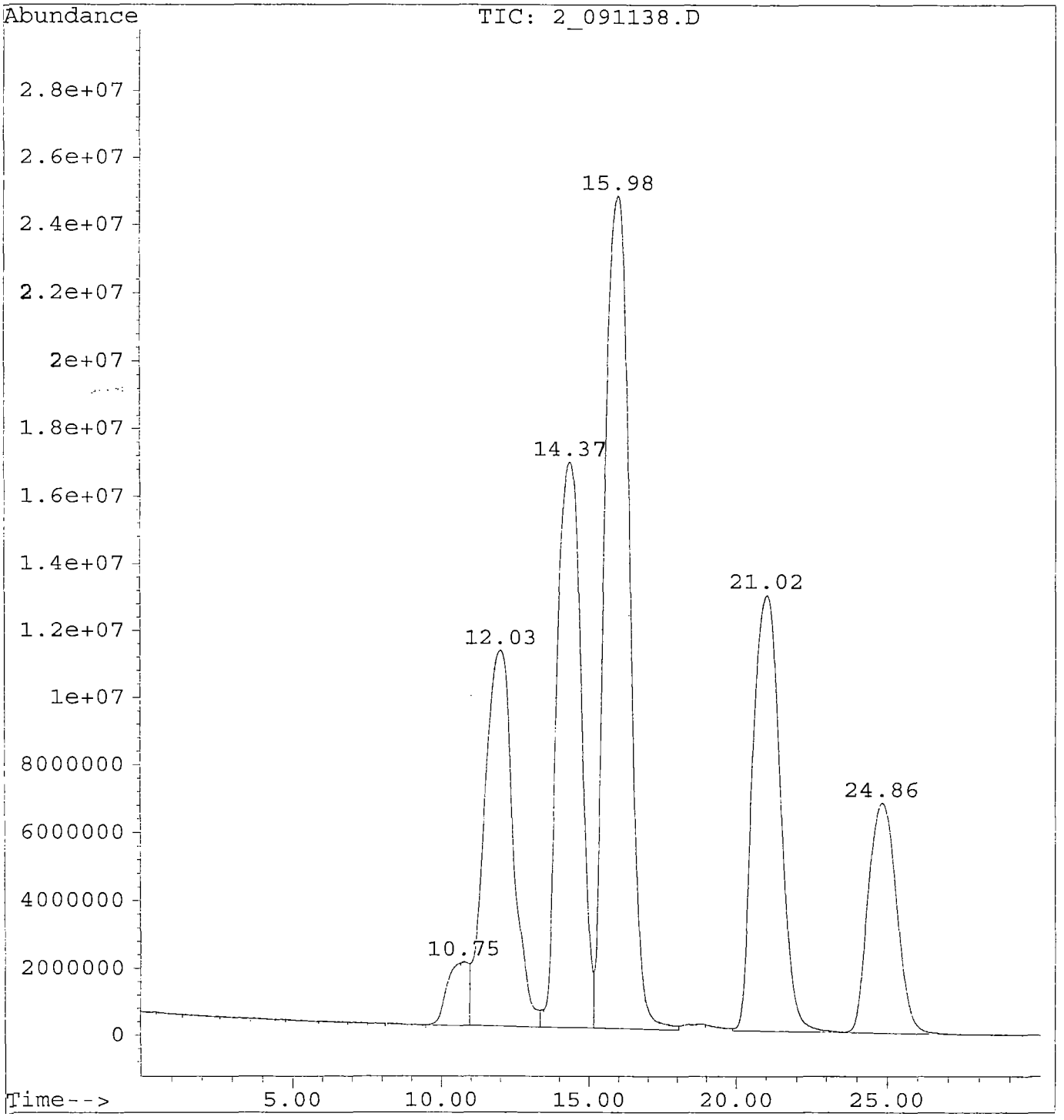


File : C:\HPCHEM\6\DATA\091101\2_091137.D
Operator : CR COL# 364134
Acquired : 12 Sep 01 09:55 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 37



Data File : C:\HPCHEM\6\DATA\091101\2_091138.D
Acq On : 12 Sep 01 10:26 AM
Sample : CAL STD (FINAL)
Misc : COL# 364134

Vial: 38
Operator: CR COL#
Inst : GPC2
Multiplr: 1.00



Chromatographic Resolution Report

Data File : C:\HPCHEM\6\DATA\091101\2_091138.D
Acq On : 12 Sep 01 10:26
Sample : CAL STD (FINAL)
Misc : COL# 364134

Vial: 38
Operator: CR COL# 36
Inst : GPC2
Multiplr: 1.00

Method : C:\HPCHEM\6\METHODS\GPC.M
Title :

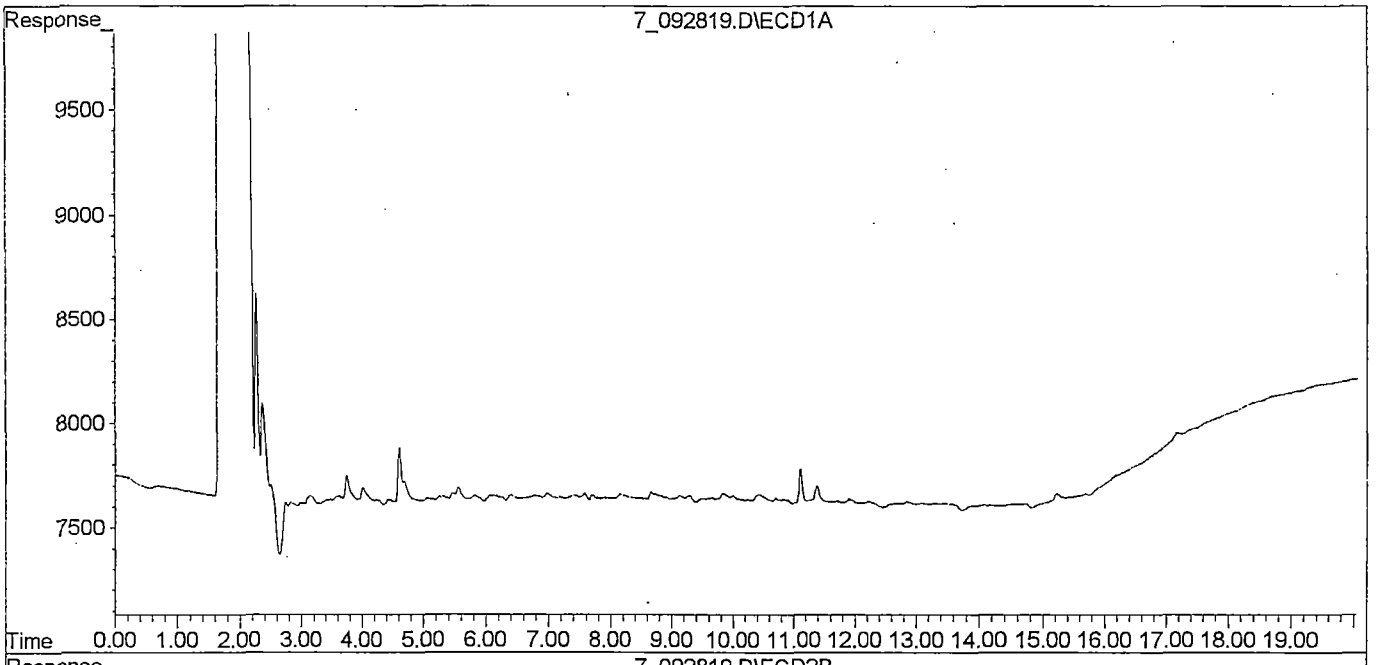
RT#1	RT#2	Resolution
10.753	12.025	3.26
12.025	14.368	95.76
14.368	15.985	90.12
15.985	21.019	100.00
21.019	24.857	99.66

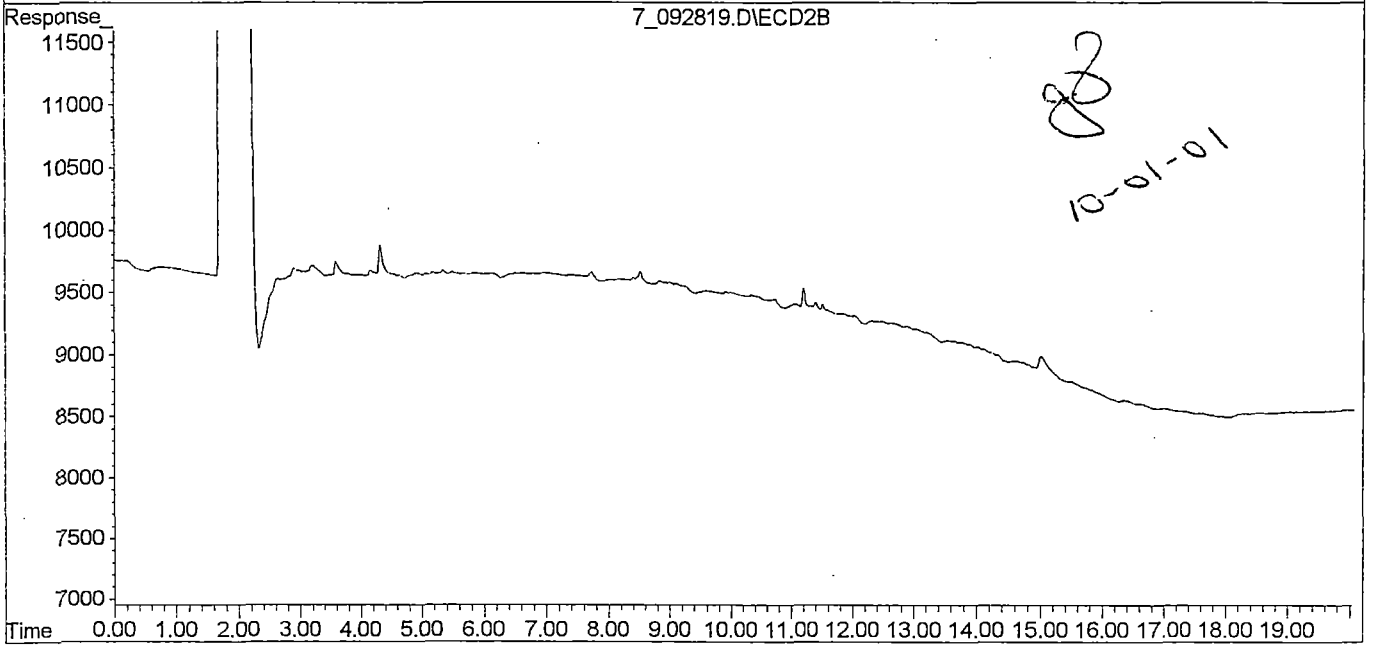
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092819.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092819.D\ECD2B.CH
Acq On : 28 Sep 2001 14:44 Operator: SA
Sample : SB091101C *SB091101C * Inst : HP_07
Misc : **1000ML/10ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 18:53 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





10-01-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092819.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092819.D\ECD2B.CH
Acq On : 28 Sep 2001 14:44 Operator: SA
Sample : SB091101C *SB091101C * Inst : HP_07
Misc : **1000ML/10ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 18:53 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds:

Target Compounds:

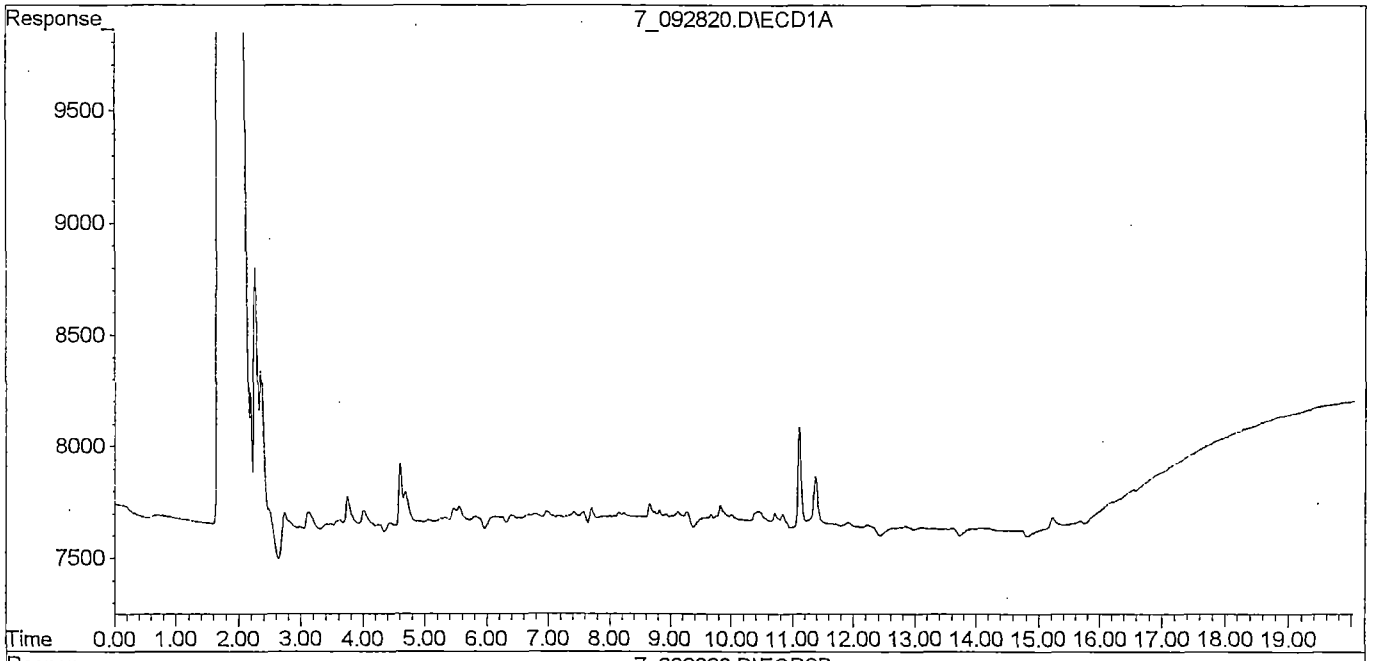
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

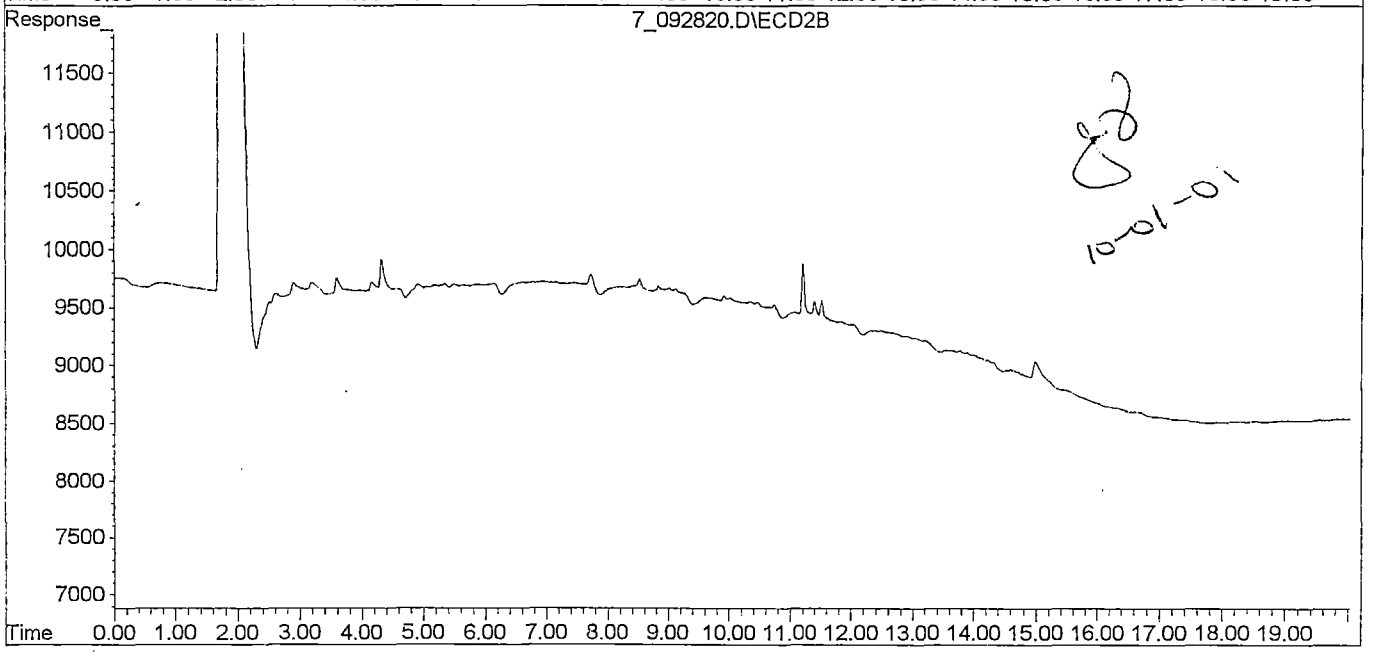
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092820.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092820.D\ECD2B.CH
Acq On : 28 Sep 2001 15:08 Operator: SA
Sample : SB091101D *SB091101D * Inst : HP_07
Misc : **1000ML/10ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 18:53 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092820.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\7\DATA\09_28_01\7_092820.D\ECD2B.CH
Acq On : 28 Sep 2001 15:08 Operator: SA
Sample : SB091101D *SB091101D * Inst : HP_07
Misc : **1000ML/10ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 18:53 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\7\DATA\09_28_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_24_01\
Last Update : Tue Sep 25 07:39:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

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-407 OP-407-RUNLOG-8 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_07
SDG NO. : SWLO METHOD FILE(S): XPCBI24

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/24/01 14:07	CONDITIONER		7_092401	
09/24/01 14:31	HEX		7_092402	
09/24/01 14:56	HEX		7_092403	
09/24/01 15:20	PIBLK7X	5-131-7	7_092404	
09/24/01 15:44	AR1660L37K	5-128-7	7_092405	Fail
09/24/01 16:09	AR1660L37L	5-128-7	7_092406	Fail
09/24/01 16:54	RESC7J	5-171-7	7_092407	✓
09/24/01 17:18	AR1221L37I	5-420-6	7_092408	✓
09/24/01 17:43	AR1232L37I	5-422-6	7_092409	✓
09/24/01 18:07	AR1242L17I	5-11-7	7_092410	✓
09/24/01 18:31	AR1242L27I	5-10-7	7_092411	✓
09/24/01 18:55	AR1242L37I	5-9-7	7_092412	✓
09/24/01 19:20	AR1242L47I	5-8-7	7_092413	✓
09/24/01 19:44	AR1242L57I	5-7-7	7_092414	✓
09/24/01 20:08	AR1248L37I	5-424-6	7_092415	✓
09/24/01 20:33	AR1254L17I	5-6-7	7_092416	✓
09/24/01 20:57	AR1254L27I	5-5-7	7_092417	✓
09/24/01 21:21	AR1254L37I	5-4-7	7_092418	✓
09/24/01 21:45	AR1254L47I	5-3-7	7_092419	✓
09/24/01 22:09	AR1254L57I	5-2-7	7_092420	✓
09/24/01 22:33	AR1660L17I	5-212-7	7_092421	✓

Unless noted, Client Ids are the same for the quant. & confirmation columns

Diana L. Hohe
Verification Signature/Date

9-26-01
Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-407 OP-407-RUNLOG-8 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_07
SDG NO. : SWLO METHOD FILE(S): XPCBI24

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/24/01 22:57	AR1660L27I	5-211-7	7_092422	✓
09/24/01 23:21	AR1660L37M	5-210-7	7_092423	✓
09/24/01 23:45	AR1660L47I	5-209-7	7_092424	✓
09/25/01 00:09	AR1660L57I	5-208-7	7_092425	✓
09/25/01 00:33	PIBLK7Y	5-131-7	7_092426	✓
09/25/01 00:57	E03S8DL	47367.16DL	7_092427	ok
09/25/01 1:21	E03S9DL	47367.17DL	7_092428	ok
09/25/01 1:45	E03T0DL	47367.18DL	7_092429	ok
09/25/01 2:09	E03T4DL	47367.22DL	7_092430	ok
09/25/01 2:33	HEX		7_092431	
09/25/01 2:57	HEX		7_092432	
09/25/01 3:21	PIBLK7Z	5-131-7	7_092433	✓
09/25/01 3:45	AR1660L37N	5-128-7	7_092434	✓
09/25/01 4:09	AR1660L37O	5-128-7	7_092435	

Unless noted, Client Ids are the same for the quant. & confirmation columns

Diana R. Hohe
Verification Signature/Date

9-26-01
Analyst Signature/Date

Page No.: 19

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-407 OP-407-RUNLOG-8 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_07
SDG NO. : SWLO METHOD FILE(S): XPCBI24

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/28/01 7:26	CONDITIONER	CONDITIONER	7_092801	
09/28/01 7:51	HEX		7_092802	
09/28/01 8:14	HEX		7_092803	
09/28/01 8:38	PIBLK7B	5-131-7	7_092804	✓
09/28/01 9:03	AR1660L37A	5-293-7	7_092805	✓
09/28/01 9:27	AR1660L37B	5-293-7	7_092806	
09/28/01 9:52	SB092701A	SB092701A	7_092807	✓
09/28/01 10:16	SB092701B	SB092701B	7_092808	✓
09/28/01 10:40	PBLKSB	BL0926SB	7_092809	✓
09/28/01 11:05	PBLKSB	BB0926SB	7_092810	✓
09/28/01 11:29	ELCS3	LC0926SB	7_092811	✓
09/28/01 11:53	ELCS4	LD0926SB	7_092812	✓
09/28/01 12:17	E04D2	47451.05	7_092813	ok
09/28/01 12:42	HEX		7_092814	
09/28/01 13:07	HEX		7_092815	
09/28/01 13:32	PIBLK7C	5-131-7	7_092816	✓
09/28/01 13:56	AR1660L37C	5-293-7	7_092817	✓
09/28/01 14:20	AR1660L37D	5-293-7	7_092818	

Unless noted, Client Ids are the same for the quant. & confirmation columns

Diana L. Hobe
Verification Signature/Date

Analyst Signature/Date

Page No.: 28

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-407 OP-407-RUNLOG-8 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_07
SDG NO. : SWLO METHOD FILE(S): XPCBI24

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/28/01 14:44	SB091101C	SB091101C	~~7_092819~~ ✓	gB 10/01/01
09/28/01 15:08	SB091101D	SB091101D	~~7_092820~~ ✓	
09/28/01 15:32	PBLKSA	BL0908SA ✓	7_092821	✓
09/28/01 15:56	PBLKSA	BB0908SA	~~7_092822~~ ✓	gB 10/01/01
09/28/01 16:20	ELCS1	LC0908SA ✓	7_092823	✓
09/28/01 16:44	ELCS2	LD0908SA ✓	7_092824	✓
09/28/01 17:08	HEX		7_092825	
09/28/01 17:32	HEX		7_092826	
09/28/01 17:55	HEX		7_092827	
09/28/01 18:19	PIBLK7D	5-131-7	7_092828	✓
09/28/01 18:43	AR1660L37E	5-293-7	7_092829	✓
09/28/01 19:07	AR1660L37F	5-293-7	7_092830	
09/28/01 19:32	E04F1	47452.01 ✓	7_092831	OK
09/28/01 19:56	E04F1MS	47452.02MS ✓	7_092832	OK
09/28/01 20:20	E04F1MSD	47452.03MSD ✓	7_092833	OK
09/28/01 20:44	E04F2	47452.04 ✓	7_092834	OK
09/28/01 21:08	E04F3	47452.05 ✓	7_092835	OK
09/28/01 21:32	E04F4	47452.06 ✓	7_092836	OK
09/28/01 21:56	E04F5	47452.07 ✓	7_092837	OK
09/28/01 22:20	E04F6	47452.08 ✓	7_092838	OK
09/28/01 22:44	E04F7	47452.09 ✓	7_092839	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

Diane L. Hahn
Verification Signature/Date

[illegible] 9-25-01
Analyst Signature/Date

Page No.: 29

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-407 OP-407-RUNLOG-8 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_07
SDG NO. : SWLO METHOD FILE(S): XPCBI24

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/28/01 23:08	E04F8	47452.10	7_092840	ok
09/28/01 23:32	E04F9	47452.11	7_092841	ok
09/28/01 23:56	HEX		7_092842	
09/29/01 00:21	HEX		7_092843	
09/29/01 00:45	HEX		7_092844	
09/29/01 1:09	PIBLK7E	5-131-7	7_092845	✓
09/29/01 1:33	AR1660L37G	5-293-7	7_092846	✓
09/29/01 1:57	AR1660L37H	5-293-7	7_092847	
09/29/01 2:21	E04G0	47452.12	7_092848	ok
09/29/01 2:45	E04G1	47452.13	7_092849	ok
09/29/01 3:09	E04G2	47452.14	7_092850	ok
09/29/01 3:33	E04G3	47452.15	7_092851	ok
09/29/01 3:57	E04G4	47452.16	7_092852	ok
09/29/01 4:21	E04G5	47452.17	7_092853	ok
09/29/01 4:45	E04G6	47452.18	7_092854	ok
09/29/01 5:09	E04G7	47452.19	7_092855	ok
09/29/01 5:33	E04G8	47452.20	7_092856	ok
09/29/01 5:57	E04G9	47452.21	7_092857	ok
09/29/01 6:21	E04H0	47452.22	7_092858	ok
09/29/01 6:45	HEX		7_092859	
09/29/01 7:09	HEX		7_092860	

Unless noted, Client Ids are the same for the quant. & confirmation columns

Diana L. Hole
Verification Signature/Date

9-25-01
Analyst Signature/Date

Page No.: 30

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-407 OP-407-RUNLOG-8 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_07
SDG NO. : SWLO METHOD FILE(S): XPCBI24

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/29/01 7:33	HEX		7_092861	
09/29/01 7:57	PIBLK7F	5-131-7	7_092862	✓
09/29/01 8:21	AR1660L37I	5-293-7	7_092863	✓
09/29/01 8:45	AR1660L37J	5-293-7	7_092864	

Unless noted, Client Ids are the same for the quant. & confirmation columns

Diana L. Hohe
Verification Signature/Date

9-29-01
Analyst Signature/Date

Page No.: 31

	SV	OD ST • PCB	OTHER
CONT EX. (3520C)			
SEP-F (3510C)			
SHAKER			
SONC. (3550B)		XXXXX	
SOXHLET			

☐ RUSH ☐ REEXTRACT ☐ TCLP [OXIN

SAMPLE EXTRACTION L

BATCH: 010908SA

EXTRACT DATE: 2001-09-08 06:50

003074
Page: 1 of 2

SAMPLE ID (EPISODE #)	CLIENT CASE	DATE RECEIVED CLIENT SAMPLE ID	MATRIX/LEVEL	SAMPLE pH	% MOISTURE	DRY WEIGHT	AMOUNT EXTRACTED	EXTRACTED VOLUME	GPC VOLUME	GPC ELUTE VOL	FLORISIL VOL CONC	FLORISIL FIN VOL CONC	VOL SV (P)	FIN PROCESS VOLUME	SCREEN Y/N	MS SV (P)	SURR SV (P)	BASE pH CONFIRMATION	ACID pH CONFIRMATION
					%	g	g	ml	ml	ml	ml	ml	ml	ml	Y/N	µL	µL		
BL0908SA			S/L				30.00	300	10/5	45	2.0		5.0	5.0	N		1000		
BB0908SA			S/L				30.00	300	10/5	45	2.0		5.0	5.0	N		1000		
LC0908SA			S/L				30.00	300	10/5	45	2.0		5.0	5.0	N	1000	1000		
LD0908SA			S/L				30.00	300	10/5	45	2.0		5.0	5.0	N	1000	1000		
47452.01 GC699	EPA	08/30/2001 08:15 E04F1	S/L	7.39	59.11	12.5	30.51	300	10/5	45	2.0		5.0	5.0	N		1000		
47452.02MS GC699	EPA	08/30/2001 08:15 E04F1MS	S/L	7.39	59.11	12.5	30.69	300	10/5	45	2.0		5.0	5.0	N	1000	1000		
47452.03MSD GC699	EPA	08/30/2001 08:15 E04F1MSD	S/L	7.39	59.11	12.3	30.16	300	10/5	45	2.0		5.0	5.0	N	1000	1000		
47452.04 GC699	EPA	08/30/2001 08:15 E04F2	S/L	7.50	24.75	23.3	30.97	300	10/5	45	2.0		5.0	5.0	N		1000		
47452.05 GC699	EPA	08/30/2001 08:15 E04F3	S/L	7.51	60.80	12.0	30.64	300	10/5	45	2.0		5.0	5.0	N		1000		
47452.06 GC699	EPA	08/30/2001 08:15 E04F4	S/L	7.10	58.72	12.4	30.01	300	10/5	45	2.0		5.0	5.0	N		1000		
47452.07 GC699	EPA	08/30/2001 08:15 E04F5	S/L	7.33	56.91	13.1	30.41	300	10/5	45	2.0		5.0	5.0	N		1000		
47452.08 GC699	EPA	08/30/2001 08:15 E04F6	S/L	7.44	44.52	16.8	30.20	300	10/5	45	2.0		5.0	5.0	N		1000		
47452.09 GC699	EPA	08/30/2001 08:15 E04F7	S/L	7.50	13.40	26.4	30.49	300	10/5	45	2.0		5.0	5.0	N		1000		
47452.10 GC699	EPA	08/30/2001 08:15 E04F8	S/L	7.38	57.92	12.9	30.72	300	10/5	45	2.0		5.0	5.0	N		1000		
47452.11 GC699	EPA	08/30/2001 08:15 E04F9	S/L	7.41	50.04	15.1	30.21	300	10/5	45	2.0		5.0	5.0	N		1000		

INITIALS

WEIGHING:	MC	EXTRACTION:	MC	FLORISIL:	
CLEANUP:	CR	KD:	MC		C/Hx/Ch
BLOWDOWN:	SA	TV:	GS		Acetone
SURROG. SPIKER:	MC	VERIFIER:	GS		Hexane
MATRIX SPIKER:	MC	VERIFIER:	GS		
SUBMITTED BY:	SA	REVIEWED BY:			09/19

302

ID NUMBERS

FLORISIL CARTRIDGE #:

GPC COLUMN #: 364134 (09-11-01) #3640A

SURROGATES ID CONC #: 5-199-7

MATRIX SPIKE SOLID/CONC #(s): 5-170-7

SOP - METHOD # : SWL-OP- 415 Rev. 1.0

COMMENTS

SB #091101C
SB #091101P
Extracts went through silgel & acid clean-up

P9 39 Book 1 Page

	SV	OD ST • PCB	OTHER
CONT EX. (3520C)			
SEP-F (3510C)			
SHAKER			
SONC. (3550B)		XXXXX	
SOXHLET			

☐ RUSH ☐ REEXTRACT ☐ TCLP ☐ DXIN

SAMPLE EXTRACTION LO

BATCH: 010908SA

EXTRACT DATE: 2001-09-08 06:50

003074
Page: 2 of 2

SAMPLE ID (EPISODE #)	CLIENT CASE	DATE RECEIVED CLIENT SAMPLE ID	MATRIX/LEVEL	SAMPLE pH	% MOISTURE	DRY WEIGHT	AMOUNT EXTRACTED	EXTRACTED VOLUME	GPC VOLUME	GPC ELUTE VOL	FLORISIL VOL CONC	FLORISIL FIN VOL CONC	VOL SV (P)	FIN PROCESS VOLUME	SCREEN Y/N	MS SV (P)	SURR SV (P)	BASE pH CONFIRMATION	ACID pH CONFIRMATION
					%	g	g • ml	ml	ml	ml	ml	ml	ml	ml	Y/N	µL	µL		
47452.12 GC699	EPA	08/30/2001 08:15 E04G0	S/L	7.51	28.25	21.6	30.16	300	10/5	45	2.0		5.0	5.0	N		1000		
47452.13 GC699	EPA	08/30/2001 08:15 E04G1	S/L	7.29	27.62	22.3	30.78	300	10/5	45	2.0		5.0	5.0	N		1000		
47452.14 GC699	EPA	08/30/2001 08:15 E04G2	S/L	7.37	57.10	12.9	30.17	300	10/5	45	2.0		5.0	5.0	N		1000		
47452.15 GC699	EPA	08/30/2001 08:15 E04G3	S/L	7.51	56.99	13.3	30.91	300	10/5	45	2.0		5.0	5.0	N		1000		
47452.16 GC699	EPA	08/30/2001 08:15 E04G4	S/L	7.65	45.43	16.5	30.23	300	10/5	45	2.0		5.0	5.0	N		1000		
47452.17 GC699	EPA	08/30/2001 08:15 E04G5	S/L	7.50	40.38	18.1	30.41	300	10/5	45	2.0		5.0	5.0	N		1000		
47452.18 GC699	EPA	08/30/2001 08:15 E04G6	S/L	7.52	58.21	12.6	30.12	300	10/5	45	2.0		5.0	5.0	N		1000		
47452.19 GC699	EPA	08/30/2001 08:15 E04G7	S/L	7.57	19.07	24.3	30.04	300	10/5	45	2.0		5.0	5.0	N		1000		
47452.20 GC699	EPA	08/30/2001 08:15 E04G8	S/L	7.24	62.25	11.5	30.38	300	10/5	45	2.0		5.0	5.0	N		1000		
47452.21 GC699	EPA	08/30/2001 08:15 E04G9	S/L	7.57	58.54	12.8	30.96	300	10/5	45	2.0		5.0	5.0	N		1000		
47452.22 GC699	EPA	08/30/2001 08:15 E04H0	S/L	7.62	54.48	13.7	30.14	300	10/5	45	2.0		5.0	5.0	N		1000		

INITIALS

WEIGHING:	SA	EXTRACTION:	MC	FLORISIL:	
CLEANUP:	CR	KD:	MC		CH2Cl2
BLOWDOWN:	SA	TV:	GS		Acetone
SURROG. SPIKER:	MC	VERIFIER:	GS		Hexane
MATRIX SPIKER:	MC	VERIFIER:	GS		
SUBMITTED BY:	SA	REVIEWED BY:			09/11/01

ID NUMBERS

FLORISIL CARTRIDGE #:

GPC COLUMN #: 364134 (09-11-01) #364041

SURROGATES ID CONC #: 5-199-7

MATRIX SPIKE SOLID/CONC #(s): 5-170-7

SOP - METHOD # : SWL-OP- 415 Rev. 1.0

COMMENTS

SB # 091101C
SB # 091101D
Extracts went through steel
Acid clean-up

303

P. 29 Page 1 Page

EXTRACT RECEIPT LOG

SWL-OP-301 REV. NO.: _____
SWL OP-301-EXTRCPT-6
SWOK/AATS
OP301a3.doc

Date	Time	Sample Episode Number(s)	Client	Extr. Chemist Initials	Re-extract? (Y/N)	Comments	No. of Samp.
9/14	3:00	47537.01	SWLO	CA	N	GC560	1
09/19	9:20	47451.01-22 MS,MSD	EPA	SA	N	GC699	22
09/19	9:20	47452.01-22 MS,MSD	EPA	SA	N	GC699	22
09/19	9:20	47454.01-22 MS,MSD	EPA	SA	N	GC699	22
09/19	9:20	47419.02	TETPITT	SA	Y	GC699	X
09/19	9:20	PEST/ARocl CHK	SWLO	SA	N	GC819	X
09/19	9:20	PEST/ARocl CHK	SWLO	SA	N	GC819	X

SOUTHWEST LABORATORY OF OKLAHOMA, INC.
[illegible] West Albany • Broken Arrow, OK 74012 • Office (918) 251-2858 • Fax (918) 251-2500

Southwest Laboratory of Oklahoma
1700 W. Albany Suite C
Broken Arrow, OK 74012-1421

INTERNAL CHAIN OF CUSTODY

Date	8/30/01
Episode	**47452**
Client	**EPA**
Project	OLM04.2
Received	08/30/01

Test Code	Cont ID	(Circle the Sample Numbers Checked out) #	#	#	#	#	#	#	Date/Time Out	Analyst	Date/Time In
GC699	A	1	2	3	4	5	6	7			
		8	9	10	11	12	13	14			
		15	16	17	18	19	20	21			
		22							09-08/8:00	N-C	09-08/9:30
IN660	A	1	2	3	4	5	6	7			
		8	9	10	11	12	13	14			
		15	16	17	18	19	20	21	8-31/0700	M	8-31/1100
		22									

This portion can be removed for Recipient's records.

8-29-01 FedEx Tracking Number 821876980351

er's RICK MEHL Phone 847 918-4000

Company ROY F WESTON INC

450 OLD SKOKIE ROAD 8-30-01 8:15

ess

PARK CITY IL 60085

Dept./Floor/Suite/Room

State ZIP

Internal Billing Reference 12634 001 001 0067 00

This portion can be removed for Recipient's records.

08-29-01 FedEx Tracking Number 821876980340

er's RICK MEHL Phone 847 918-4000

Company ROY F WESTON INC

450 OLD SKOKIE ROAD 8-30-01 8:15

ess

PARK CITY IL 60085

Dept./Floor/Suite/Room

State ZIP

Internal Billing Reference 12634 001 001 0067 00

Original in
29684 EOMBO
SJ 8/31/01

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

Case No: 29684
DAS No:
SDG No: E04F1 L

Date Shipped: 8/29/2001
Carrier Name: FedEx
Airbill: 821876980340
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]	8-29-01 1795	[signature]	8-30-01 8:15
2			
3			
4			

Sampler Signature: [signature]

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 E04F1
E04E3	Sediment/ Joe Ruiz	L/G	PCBs (21)	099276 (Ice Only) (1)	AP-SD004-32-03	S:	8/28/2001	8:30		OK
E04E4	Sediment/ Joe Ruiz	L/G	PCBs (21)	099277 (Ice Only) (1)	AP-SD004-32-04	S:	8/28/2001	8:30		
E04E5	Sediment/ Joe Ruiz	L/G	PCBs (21)	099278 (Ice Only) (1)	AP-SD004-12-01	S:	8/28/2001	8:45		
E04E6	Sediment/ Joe Ruiz	L/G	PCBs (21)	099279 (Ice Only) (1)	AP-SD004-12-02	S:	8/28/2001	8:45		
E04E7	Sediment/ Joe Ruiz	L/G	PCBs (21)	099280 (Ice Only) (1)	AP-SD004-12-03	S:	8/28/2001	8:45		8-30-01 (HS)
E04E8	Sediment/ Joe Ruiz	L/G	PCBs (21)	099281 (Ice Only) (1)	AP-SD004-12-04	S:	8/28/2001	8:45		
E04E9	Sediment/ Heidi Nemeth	L/G	PCBs (21)	099282 (Ice Only) (1)	AP-SD004-18-01	S:	8/28/2001	8:50		
E04F0	Sediment/ Heidi Nemeth	L/G	PCBs (21)	099283 (Ice Only) (1)	AP-SD004-18-02	S:	8/28/2001	8:50		
E04F1	Sediment/ Heidi Nemeth	L/G	PCBs (21)	099284 (Ice Only) (1)	AP-SD004-18-03	S:	8/28/2001	8:50	ORIGINAL IN SDG # E04D0 8-30-01 (HS)	
E04F2	Sediment/ Heidi Nemeth	L/G	PCBs (21)	099285 (Ice Only) (1)	AP-SD004-18-04	S:	8/28/2001	8:50		

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:
	E04D0, E04F1, E04H1		2.1°C TR	177852, 177853

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: 5-490998136-082901-0001

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

307

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

Case No:	29684
DAS No:	
SDG No:	E04F1

L

Date Shipped:	8/29/2001
Carrier Name:	FedEx
Airbill:	821876980340
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	8-29-01 1795		8-30-01 8:15
2			
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No:	68W29079
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 E04F1
E04F3	Sediment/ Heidi Nemeth	L/G	PCBs (21)	099286 (Ice Only) (1)	AP-SD004-18-05	S:	8/28/2001	8:50		OK
E04F4	Sediment/ Joe Ruiz	L/G	PCBs (21)	099287 (Ice Only) (1)	AP-SD004-22-01	S:	8/28/2001	9:20		
E04F5	Sediment/ Joe Ruiz	L/G	PCBs (21)	099288 (Ice Only) (1)	AP-SD004-22-02	S:	8/28/2001	9:20		
E04F6	Sediment/ Joe Ruiz	L/G	PCBs (21)	099289 (Ice Only) (1)	AP-SD004-22-03	S:	8/28/2001	9:20		8-30-01
E04F7	Sediment/ Joe Ruiz	L/G	PCBs (21)	099290 (Ice Only) (1)	AP-SD004-31-01	S:	8/28/2001	9:30		
E04F8	Sediment/ Joe Ruiz	L/G	PCBs (21)	099291 (Ice Only) (1)	AP-SD004-31-02	S:	8/28/2001	9:30		
E04F9	Sediment/ Joe Ruiz	L/G	PCBs (21)	099292 (Ice Only) (1)	AP-SD004-31-03	S:	8/28/2001	9:30		
E04G0	Sediment/ Joe Ruiz	L/G	PCBs (21)	099293 (Ice Only) (1)	AP-SD004-31-04	S:	8/28/2001	9:30		
E04G1	Sediment/ Joe Ruiz	L/G	PCBs (21)	099294 (Ice Only) (1)	AP-SD004-20-01	S:	8/28/2001	9:55		
E04G2	Sediment/ Joe Ruiz	L/G	PCBs (21)	099295 (Ice Only) (1)	AP-SD004-20-02	S:	8/28/2001	9:55		

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E04D0, E04F1, E04H1	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 2.1°C IB.	Chain of Custody Seal Number: 177852, 177853
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: 5-490998136-082901-0001

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

3008

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

Case No: 29684
DAS No:
SDG No: E04F1 **L**

Date Shipped: 8/29/2001
Carrier Name: FedEx
Airbill: 821876980340
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	8-29-01 1745		8/30/01 8:15
2			
3			
4			

Sampler Signature:

For Lab Use Only
Lab Contract No: 68W29079
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 E04F1
E04G3	Sediment/ Joe Ruiz	L/G	PCBs (21)	099296 (Ice Only) (1)	AP-SD004-20-03	S:	8/28/2001	9:55		OK
E04G4	Sediment/ Joe Ruiz	L/G	PCBs (21)	099297 (Ice Only) (1)	AP-SD004-20-04	S:	8/28/2001	9:55		
E04G5	Sediment/ Joe Ruiz	L/G	PCBs (21)	099298 (Ice Only) (1)	AP-SD004-20-04DP	S:	8/28/2001	9:55		
E04G6	Sediment/ Joe Ruiz	L/G	PCBs (21)	099299 (Ice Only) (1)	AP-SD004-20-05	S:	8/28/2001	9:55		
E04G7	Sediment/ Heidi Nemeth	L/G	PCBs (21)	099300 (Ice Only) (1)	AP-SD004-24-01	S:	8/28/2001	10:25		8-30-01
E04G8	Sediment/ Heidi Nemeth	L/G	PCBs (21)	099301 (Ice Only) (1)	AP-SD004-24-02	S:	8/28/2001	10:25		
E04G9	Sediment/ Heidi Nemeth	L/G	PCBs (21)	099302 (Ice Only) (1)	AP-SD004-24-03	S:	8/28/2001	10:25		
* E04H0	Sediment/ Heidi Nemeth	L/G	PCBs (21)	099303 (Ice Only) (1)	AP-SD004-24-04	S:	8/28/2001	10:25		
E04H4	Sediment/ Joe Ruiz	L/G	PCBs (21)	099307 (Ice Only) (1)	AP-SD004-33-03DP	S:	8/28/2001	10:10		
E04H5	Sediment/ Joe Ruiz	L/G	PCBs (21)	099308 (Ice Only) (1)	AP-SD004-33-04	S:	8/28/2001	10:10		

* SDG Final Sample.

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC: E04D0, E04F1, E04H1	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 2.1° T.B.	Chain of Custody Seal Number: 177852, 177853
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: 5-490998136-082901-0001

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

Southwest Laboratory of Oklahoma
1700 W. Albany Suite C
Broken Arrow, OK 74012-1421

SAMPLE LOG-IN RECORD

REVIEWED
BY [illegible]
DATE 8/30/01

Date 08/30/2001 Page 1
Episode **47452**
Client **EPA**
Project OLM04.2
Received 08/30/01
Logged In 08/30/01

TEST	PRI	DUE	CONTAINER	DESCRIPTION	EXTRACTED		ANALYST	ANALYZED
Sample: **47452.01N1**	Sampled:08/28/01 08:50			ID:E04F1	SDG:E04F1	Matrix:	S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB				
IN660	8	09/03/2001	A	% MOISTURE				
Sample: **47452.02MS1**	Sampled:08/28/01 08:50			ID:E04F1MS	SDG:E04F1	Matrix:	S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB				
IN660	8	09/03/2001	A	% MOISTURE				
Sample: **47452.03SD1**	Sampled:08/28/01 08:50			ID:E04F1MSD	SDG:E04F1	Matrix:	S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB				
IN660	8	09/03/2001	A	% MOISTURE				
Sample: **47452.04**	Sampled:08/28/01 08:50			ID:E04F2	SDG:E04F1	Matrix:	S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB				
IN660	8	09/03/2001	A	% MOISTURE				
Sample: **47452.05**	Sampled:08/28/01 08:50			ID:E04F3	SDG:E04F1	Matrix:	S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB				
IN660	8	09/03/2001	A	% MOISTURE				
Sample: **47452.06**	Sampled:08/28/01 09:20			ID:E04F4	SDG:E04F1	Matrix:	S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB				
IN660	8	09/03/2001	A	% MOISTURE				
Sample: **47452.07**	Sampled:08/28/01 09:20			ID:E04F5	SDG:E04F1	Matrix:	S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB				
IN660	8	09/03/2001	A	% MOISTURE				
Sample: **47452.08**	Sampled:08/28/01 09:20			ID:E04F6	SDG:E04F1	Matrix:	S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB				
IN660	8	09/03/2001	A	% MOISTURE				
Sample: **47452.09**	Sampled:08/28/01 09:30			ID:E04F7	SDG:E04F1	Matrix:	S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB				
IN660	8	09/03/2001	A	% MOISTURE				
Sample: **47452.10**	Sampled:08/28/01 09:30			ID:E04F8	SDG:E04F1	Matrix:	S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB				
IN660	8	09/03/2001	A	% MOISTURE				
Sample: **47452.11**	Sampled:08/28/01 09:30			ID:E04F9	SDG:E04F1	Matrix:	S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB				
IN660	8	09/03/2001	A	% MOISTURE				
Sample: **47452.12**	Sampled:08/28/01 09:30			ID:E04G0	SDG:E04F1	Matrix:	S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB				
IN660	8	09/03/2001	A	% MOISTURE				
Sample: **47452.13**	Sampled:08/28/01 09:55			ID:E04G1	SDG:E04F1	Matrix:	S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB				
IN660	8	09/03/2001	A	% MOISTURE				
Sample: **47452.14**	Sampled:08/28/01 09:55			ID:E04G2	SDG:E04F1	Matrix:	S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB				

Southwest Laboratory of Oklahoma
1700 W. Albany Suite C
Broken Arrow, OK 74012-1421

SAMPLE LOG-IN RECORD

Date	08/30/2001
Episode	**47452**
Client	**EPA**
Project	OLM04.2
Received	08/30/01
Logged In	08/30/01

TEST	PRI	DUE	CONTAINER	DESCRIPTION	EXTRACTED	ANALYST	ANALYZED
IN660	8	09/03/2001	A	% MOISTURE			
Sample: **47452.15**	Sampled:08/28/01 09:55			ID:E04G3	SDG:E04F1	Matrix: S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB			
IN660	8	09/03/2001	A	% MOISTURE			
Sample: **47452.16**	Sampled:08/28/01 09:55			ID:E04G4	SDG:E04F1	Matrix: S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB			
IN660	8	09/03/2001	A	% MOISTURE			
Sample: **47452.17**	Sampled:08/28/01 09:55			ID:E04G5	SDG:E04F1	Matrix: S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB			
IN660	8	09/03/2001	A	% MOISTURE			
Sample: **47452.18**	Sampled:08/28/01 09:55			ID:E04G6	SDG:E04F1	Matrix: S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB			
IN660	8	09/03/2001	A	% MOISTURE			
Sample: **47452.19**	Sampled:08/28/01 10:25			ID:E04G7	SDG:E04F1	Matrix: S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB			
IN660	8	09/03/2001	A	% MOISTURE			
Sample: **47452.20**	Sampled:08/28/01 10:25			ID:E04G8	SDG:E04F1	Matrix: S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB			
IN660	8	09/03/2001	A	% MOISTURE			
Sample: **47452.21**	Sampled:08/28/01 10:25			ID:E04G9	SDG:E04F1	Matrix: S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB			
IN660	8	09/03/2001	A	% MOISTURE			
Sample: **47452.22**	Sampled:08/28/01 10:25			ID:E04H0	SDG:E04F1	Matrix: S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB			
IN660	8	09/03/2001	A	% MOISTURE			

SAMPLE LOG-IN SHEET

Lab Name SOUTHWEST LABORATORY OF OKLAHOMA	Page 1 of 2
Received by (Print Name) JASON SPRIGGS	Log-In Date 2001-08-30 14:09
Received by (Signature)	
Case Number 29634	Sample Delivery Group No. E04F1 / SAS Number

Remarks: Cooler: 08/30/01-1

1. Custody Seals(s)	Present/ Absent* Intact/ Broken
2. Custody Seal Nos.	177852-53
3. Chain-of Custody Records	Present/ Absent*
4. Traffic Reports or Packing Lists	Present/ Absent*
5. Airbill	Airbill/ Sticker Present/ Absent*
6. Airbill No.	821876980340
7. Sample Tags	Present/ Absent*
Sample Tag Numbers	Listed/ Not Listed on Chain-of-Custody
8. Sample Condition	Intact/ Broken*/Leaking
Cooler Temperature Indicator Bottle	Present/ Absent*
9. Cooler Temperature	2.1c
10. Does Information on Custody records, traffic reports, and sample tags agree?	Yes/ No*
11. Date Received at Lab	08/30/01
12. Time Received	08:15

Sample Transfer	
Fraction PCB	Fraction
Area # 9	Area #
By JS	By
On 8-30-01	On

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment: etc,
E04F1	099284	47452.01	
E04F1MS	099284	47452.02	
E04F1MSD	099284	47452.03	
E04F2	099285	47452.04	
E04F3	099286	47452.05	
E04F4	099287	47452.06	
E04F5	099288	47452.07	
E04F6	099289	47452.08	
E04F7	099290	47452.09	
E04F8	099291	47452.10	
E04F9	099292	47452.11	
E04G0	099293	47452.12	
E04G1	099294	47452.13	
E04G2	099295	47452.14	
E04G3	099296	47452.15	
E04G4	099297	47452.16	
E04G5	099298	47452.17	
E04G6	099299	47452.18	

* Contact SMO and attach record of resolution.

Reviewed By Matt Lynch	Logbook No.
Date 8/30/01	Logbook Page No.

SAMPLE LOG-IN SHEET

Lab Name SOUTHWEST LABORATORY OF OKLAHOMA	Page 2 of 2
Received by (Print Name) JASON SPRIGGS	Log-In Date 2001-08-30 14:09
Received by (Signature)	
Case Number 29684	Sample Delivery Group No. E04F1 / SAS Number

Remarks: Cooler: 08/30/01-1

1. Custody Seals(s)	Present/ Absent* Intact/ Broken
2. Custody Seal Nos.	177852-53
3. Chain-of Custody Records	Present/ Absent*
4. Traffic Reports or Packing Lists	Present/ Absent*
5. Airbill	Airbill/ Sticker Present/ Absent*
6. Airbill No.	821876980340
7. Sample Tags	Present/ Absent*
Sample Tag Numbers	Listed/ Not Listed on Chain-of-Custody
8. Sample Condition	Intact/ Broken*/Leaking
Cooler Temperature Indicator Bottle	Present/ Absent*
9. Cooler Temperature	2.1c
10. Does Information on Custody records, traffic reports, and sample tags agree?	Yes/ No*
11. Date Received at Lab	08/30/01
12. Time Received	08:15

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment: etc,
E04G7	099300	47452.19	
E04G8	099301	47452.20	
E04G9	099302	47452.21	
E04H0	099303	47452.22	

Sample Transfer	
Fraction VOB	Fraction
Area # 9	Area #
By JS	By
On 8-30-01	On

* Contact SMO and attach record of resolution.

Reviewed By Matt Lesek	Logbook No.
Date 8/30/01	Logbook Page No.

Harry Borg
From: Bauer, Heather [Heather.Bauer@dyncorp.com]
Sent: Friday, August 24, 2001 3:53 PM
To: Harry Borg (E-mail)
Cc: Howard Pham (E-mail); Tonya Balla (E-mail)
Subject: Requesting modification for FRACTION: PEST (modification PCB-REG5) a...

Harry,
Following is the resolution from Region 5. Per the Region, the lab should proceed with the dilutions as recommended. However, the lab should continue to re-extract the samples and re-analyze when the DCB surrogate is outside the QC limits as per the analytical method. Please note the issues in the case narrative and let me know if you have any other questions or problems.

Thanks,
Heather

Heather Bauer
DynCorp
(703)264-9348

-----Original Message-----

From: H161259@aol.com [mailto:H161259@aol.com]
Sent: Friday, August 24, 2001 4:08 PM
To: Bauer, Heather
Subject: Re: FW: Requesting modification for FRACTION: PEST (modification PCB-REG5) a...

Hi Heather,

Please ask the proceed the analyses with the dilution as they recommended, however, they should reextraction the sample with DCB is out of the limits as Linda's resolution.

Thanks,

Howard Pham

-----Original Message-----

From: **Heather Bauer** [mailto:heather.bauer@dyncorp.com]
Sent: Friday, August 24, 2001 2:55 PM
To: 'Howard at home (E-mail)'
Subject: FW: Requesting modification for FRACTION: PEST (modification PCB-REG5) analyses, Case # 29546,29602 & 29658
Importance: High

Howard,

Following is the response from the sampler. Please advise on how the lab should proceed as quickly as possible.

Thanks,
Heather

Heather Bauer
DynCorp
(703)264-9348

-----Original Message-----

From: **Mark and Tonya Balla [mailto:ballamt@voyager.net]**
Sent: Sunday, August 26, 2001 2:35 PM
To: Bauer, Heather; Howard at home (E-mail)
Cc: short.thomas@epamail.epa.gov; mehlr@mail.rfweston.com
Subject: RE: Requesting modifcation for FRACTION: PEST (modification PCB-REG5) analyses, Case # 29546,29602 & 29658
Importance: High

Howard,

I forwarded on the request to our START QA/QC officer/chemist and her thoughts are included below. If the dilution procedure is modified, please ensure that the laboratory includes this in all applicable data package narratives to aid with data validation.

Thanks
Tonya Balla
Roy F. Weston

> ----------
From: **Korobka, Linda**
Sent: Friday, August 24, 2001 2:13:00 PM
To: Balla, Tonya
Cc: Korobka, Linda
Subject: Modification for PCB analyses for Allied Paper Site samples
Auto forwarded by a Rule

Tonya,

It is my professional opinion that the modification to the dilution procedure for the PCB analyses performed on the Allied Paper Site samples as described by Harry Borg (SWOK Organic Program Manager) is acceptable and should give WESTON and the U.S. EPA acceptable results.

However, I do not agree with changing the DCB surrogate requirement for

re-extracting when the DCB recovery is outside the QC limits high. I feel

that the lab should continue to re-extract the samples and re-analyze when the DCB surrogate is outside the QC limits as per the analytical method.

Linda Korobka
Roy F. Weston, Inc.
Suite 100
2501 Jolly Road
Okemos, Michigan 48864
Telephone: (517) 381-5936

-----Original Message-----

From: **Bauer, Heather [mailto:Heather.Bauer@dyncorp.com]**
Sent: Friday, August 24, 2001 10:24 AM
To: Howard at home (E-mail); Tonya Balla (E-mail)
Subject: FW: Requesting modifcation for FRACTION: PEST (modification PCB-REG5) analyses, Case # 29546,29602 & 29658

> ----------

From: **Bauer, Heather[SMTP:HEATHER.BAUER@DYNCORP.COM]**
Sent: Friday, August 24, 2001 11:23:43 AM
To: Howard at home (E-mail); Tonya Balla (E-mail)
Subject: FW: Requesting modifcation for FRACTION: PEST (modification PCB-REG5) analyses, Case # 29546,29602 & 29658
Auto forwarded by a Rule

Howard,
Following is an e-mail from SWOK regarding the Allied Paper site. Please advise on how the lab should proceed as quickly as possible.

Thanks,
Heather

Heather Bauer
DynCorp
(703)264-9348

-----Original Message-----

From: hborg@swlab.com [mailto:hborg@swlab.com]
Sent: Friday, August 24, 2001 10:41 AM
To: Bauer, Heather
Cc: smith.terry@epa.gov; rharris@swlab.com
Subject: Requesting modifcation for FRACTION: PEST (modification PCB-REG5) analyses, Case # 29546,29602 & 29658

Heather,
Please check with region 5 to see if we can make the following modifications for the analyses of these PCB samples. The majority of the samples analyzed to up to this time are requiring dilutions for PCBs ranging from 10 to 100 fold. Method OLM04.2 requires a minimum of a 10 fold more concentrated extract analyses when dilutions are done. The laboratory is requesting a wavier or modification to forgo this requirement. This will allow the laboratory to do original dilutions on the samples and only run them more concentrated if aroclors are not detected within the instruments calibration range. This will speed up the analytical process and also reduce the cost to the region.

The laboratory would also like the region to review the DCB surrogate requirement for re-extracting when the DCB recovery is outside of QC limits high. To date the majority of all re-extracts taken place for this reason have duplicate the original analyses. At his time the laboratory is only sending the samples back for re-extract when the surrogate is outside of limits on both columns.

This will also help speed up the analytical process and help reduce the cost to the region.

Harry M. Borg
Organic Program Manager
SWOK

Required OLM04.2 Changes

OLM04.2 requires contract laboratories to analyze samples for Pesticides and Aroclors through the protocol outlined in Exhibit D, Analytical Methods for Pesticides/Aroclors. Specific target analytes and their associated contract required quantitation limits (CRQL) are listed in Exhibit C, Section 3.0, page C-8 of OLM04.2.

The proposed modified analysis will require the laboratory to use sample cleanup and analysis techniques not currently written into OLM04.2. The cleanup techniques to be used should generally follow guidelines for Silica Gel cleanup as presented in SW 846 Method 3630, followed by Sulfuric acid cleanup as presented in SW 846 method 3665A, and the analytical technique should generally follow PCB GC guidelines presented in SW 846 Method 8082.

Because the particular cleanup technique is destructive to certain pesticide compounds that are target analytes of OLM04.2, isolation, quantitation, and reporting of pesticides compounds for this project is not required. Only the list of Aroclors presented in Exhibit C, Section 3 is to be analyzed and reported. Further, the need to perform the Florisil cleanup technique presented in Exhibit D/Pest is waved. However, the lab is required to still perform the GPC cleanup presented in Exhibit D/Pest.

For calibration purposes the following procedural and Quality Assurance requirements must be followed:

a. A 5-point calibration curve for combined aroclors 1016/1260 and single mid-level points for all other arochlors are to be analyzed prior to any sample analysis. For the 5-point analysis, the low point on the curve nust reflect the required CRQL.

b. The 5 point curve must meet an average 20 % RSD

c. If other arochlors are suspected, or other arochlors are detected in an analysis, a separate 5-point calibration must be run for the particular arochlor. The 20 % RSD requirement will apply to any other arochlor 5-point analysis performed.

d. A continuing calibration verification standard of arochlors 1016/1260 must be analyzed every 12 hours of analysis and not to exceed 20 samples.

e. The continuing calibration verification analysis must be within 15% of the expected value. If the % difference is greater than 15%, all samples analyzed prior to the continuing calibration verification must be reanalyzed.

f. Each extraction batch must contain method blanks, laboratory control spike and matrix spike/matrix spike duplicate samples (provided sufficient sample is sent for the matrix spike and duplicate analysis).

g. Each field sample and quality control sample must contain Decachlorobiphenyl surrogate (DCB). Samples may be spiked with TMX surrogate as well, but no recovery requirements will be placed on the TMX, as this compound is sensitive to sulfuric acid cleanup.

h. All samples failing to meet DCB recovery limits of 30% to 170% must be re-extracted and re-analyzed.

i. For the laboratory control spike, arochlor 1254 is to be used. The results of the laboratory control sample should fall between the recovery limits of 29 to 135 %. If the recovery falls below 29%, all samples within the

extraction batch must be re-extracted and re-analyzed. If the recovery is above 135% and arochlors are not detected in the batch sample, then no further action is necessary. If the recovery is above 135% and arochlors are present in any of the batch samples, then the samples containing arochlor must be re-extracted and re-analyzed.

j. Arochlor 1254 is to be used for the matrix spike and duplicate analyses. Advisory limits are 29% to 135% are set for the matrix spike and duplicate analysis. As these limit are only advisory, no particular action is required for QC samples outside these limits. However, consistent recovery outside these limits for analysis in which no apparent matrix interference is present may justify a review by EPA personnel, and the laboratory may be requested to repeat certain analyses at no further cost to the government.

k. Some, or all, samples may require a reporting CRQL of 25 ug/Kg (33 ug/Kg is the OLM04.2 required CRQL). For these samples, the laboratory must extract 40 grams of sample, as opposed to the normal 30 grams. Also, extra sodium sulfate may have to be added to the sample in order to dry the sample properly.

l. For reporting purposes, the laboratory is to provide a standard CLP data package at the turnaround time requested by the Region. Modifications to reporting requirements due to the changes presented in this modification request form shall be incorporated into the hard copy deliverables and into the electronic diskette where practical and easily accommodated. All CLP forms associated with florisil cleanup, and GPC check analysis are not required. Any other reporting requirements, not mentioned in this document which the lab believes is affected by the modifications required for this project shall be noted in the case narrative. All hard copy and electronic reporting requirements not affected by these modifications shall be subjected to CCS. The Organic Program Manager will make recommendations to the Contracting Officer as to any disputes concerning CCS defects charged against samples.

While not required in the final data package, the laboratory should keep on file in the lab, the SOPs used to perform the Acid and Silica Gel cleanup techniques. Also, the lab should include copies of this modification request forms in the final hard copy data packages.

SOUTHWEST LABORATORY OF OKLAHOMA

ANALYTICAL REQUEST FORM, SWL-GA-131

Ref# 5845

Client: ACCOUNTING OFFICER
Contact: Heather Bauer
Project: OLM04.2
Location: 29684
SDG: E04F1 Closed

Client Code: EPA
Phone&Fax#: 703-264-9348 703-264-9222
PO Number:
Receipt Date: 08/30/2001 Due: 09/19/2001
Sample TAT: Fax Rpt 21

Reports
Data Pkgs: CLP: 2
EDD

Special Provisions: Must use arochlor 1254 for LCS/LCSD & MS/MSD
need GPCed, silica gel & Acid cleaned, 2.1 C
Case#29684, to date wk 8/27/01: 100 soils , 5 sets QC

Client ID	Type	Matrix	GC699									
E04F1	N1	S	X									
E04F1MS	MS1	S	X									
E04F1MSD	SD1	S	X									
E04F2		S	X									
E04F3		S	X									
E04F4		S	X									
E04F5		S	X									
E04F6		S	X									
E04F7		S	X									
E04F8		S	X									
E04F9		S	X									
E04G0		S	X									
E04G1		S	X									
E04G2		S	X									
E04G3		S	X									
E04G4		S	X									
E04G5		S	X									
E04G6		S	X									
E04G7		S	X									
E04G8		S	X									

Reporting Address: ACCOUNTING OFFICER
Attn:;FINANCIAL MANAGEMENT DIVISION,ACCOUNTING OFFICE MD-32,RESEARCH TRIANGLE P

Billing Address: Same As Reporting Address

Project Officer: HARRY M. BORG

Prepared 08/30/2001

SOUTHWEST LABORATORY OF OKLAHOMA

ANALYTICAL REQUEST FORM, SWL-GA-131

Ref# 5845

Client	ACCOUNTING OFFICER	Client Code:	EPA
Contact	Heather Bauer	Phone&Fax#:	703-264-9348 703-264-9222
Project	OLM04.2	PO Number:	
Location	29684	Receipt Date	08/30/2001 Due: 09/19/2001
SDG	E04F1 Closed	Sample TAT:	Fax Rpt 21
Reports			
Data Pkgs	CLP: 2		
EDD			

Special Provisions: Must use arochlor 1254 for LCS/LCSD & MS/MSD
need GPCed, silica gel & Acid cleaned, 2.1 C
Case#29684, to date wk 8/27/01: 100 soils , 5 sets QC

Client ID	Type	Matrix	GC699									
E04G9		S	X									
E04H0		S	X									

Reporting Address: ACCOUNTING OFFICER
Attn:;FINANCIAL MANAGEMENT DIVISION,ACCOUNTING OFFICE MD-32,RESEARCH TRIANGLE P

Billing Address: Same As Reporting Address

340

Project Officer: HARRY M. BORG

Prepared 08/30/2001