Data Review Thursday, October 11, 2001
Site Name: Allied Paper (MI)
Case Number: 29602 Laboratory: Southwest Laboratory
SDG: E03C9

US EPA RECORDS CENTER REGION 5
560080

PCBs

Samples:

Sample No	Station Location	Matrix	Date Collected	Date Extracted	Date Analyzed
E03C9	AP-SD030-20-01	Soil	08/16/01	08/23/01	09/18/01
E03D0	AP-SD030-20-02	Soil	08/16/01	08/23/01	09/18/01
E03D1	AP-SD030-20-03	Soil	08/16/01	08/23/01	09/18/01
E03D2	AP-SD030-20-04	Soil	08/16/01	08/23/01	09/18/01
E03D3	AP-SD030-20-05	Soil	08/16/01	08/23/01	09/18/01
E03D4	AP-SD030-20-06	Soil	08/16/01	08/23/01	09/18/01
E03D5	AP-SD030-20-07	Soil	08/16/01	08/23/01	09/18/01
E03D6	AP-SD030-17-01	Soil	08/16/01	08/23/01	09/18/01
E03D7	AP-SD030-17-02	Soil	08/16/01	08/23/01	09/18/01
E03D8	AP-SD030-17-03	Soil	08/16/01	08/23/01	09/18/01
E03D9	AP-SD030-17-04	Soil	08/16/01	08/23/01	09/18/01
E03E0	AP-SD030-17-05	Soil	08/16/01	08/23/01	09/18/01
E03E1	AP-SD030-17-06	Soil	08/16/01	08/23/01	09/18/01
E03E2	AP-SD030-17-06DP	Soil	08/16/01	08/23/01	09/18/01
E03E3	AP-SD036-31-01	Soil	08/15/01	08/23/01	09/18/01
E03E4	AP-SD036-31-02	Soil	08/15/01	08/23/01	09/18/01
E03E5	AP-SD036-32-01	Soil	08/15/01	08/23/01	09/18/01
E03E6	AP-SD036-32-02	Soil	08/15/01	08/23/01	09/18/01
E03E7	AP-SD036-32-03	Soil	08/15/01	08/23/01	09/18/01
E03E8	AP-SD036-32-04	Soil	08/15/01	08/23/01	09/18/01

Holding Time:

All samples were extracted and analyzed within the required holding time. The samples arrived in a cooler at 11.8 degrees Celsius. Therefore, qualify the results in all the samples as estimated (J/UJ).

Method Blank:

The method blank PBLKSB was associated with this SDG. PBLKSB was analyzed on 09/17/01 with (E03C9, E03D0 thru E03D9, E03E0 thru E03E8, E03C9DL, E03D0DL, E03D1DL, E03D6DL, E03D7DL, E03D8DL, and MS/MSD). PBLKSB results were free of contamination. All samples underwent OLMO4.2 cleanup, Silica Gel Cleanup, and sulfuric acid cleanup prior analysis. All instrument blanks associated with this sample set were free of contamination.

Surrogate Recovery:

All method blanks and investigated samples had surrogate recoveries within the acceptance quality control limits (30 to 170%), except in E03D0 (DCB2 250%), E03D1 (DCB2 179%), E03D7 (DCB2 254%), E03D8 (DCB2 185%), and were diluted out in E30C9DL (DCB2 202D%), E30D0DL (DCB1 233D%, DCB2 202D%), E30D1DL (DCB1 271D%, DCB2 321D%), E30D6DL (DCB1 171D%, DCB2 225D%), E30D7DL (DCB1 183D%, DCB2 321D%), and E30D8DL (DCB2 227D%). Therefore, qualify the detected values in E03D0, E03D1, E03D7, E03D8, E30C9DL, E30D0DL, E30D1DL, E30D6DL, E30D7DL, and E30D8DL as estimated (J).

Matrix Spike/ Matrix Spike Duplicate Recovery:
The matrix spike/ matrix spike duplicate audit was performed on sample E03C9. The matrix spike/ matrix spike duplicate recoveries were (0%, 0%) outside the quality control limits (29-135%). Therefore, qualify aroclor 1254 in E30C9 as estimated (J). However, the relative percent difference (RPD %) recovery was acceptable.

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

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

Initial And Continuing Verifications Calibration:
The initial calibrations were analyzed for the arochlor, and the recoveries were within the quality control limit of an average (RSD 20%).
The multi-component calibration verification recoveries were within the quality control limit 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: 10/11/01

067-4A-AAY6

DATE: October 4, 2001

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

RECEIVED
OCT - 8 2001

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

Attn: Tonya Balla

SITE NAME: Allied Paper

CASE NO.	LAB	NO # OF SAMPLES	SDG	MATRIX
29602	SOUTHWEST	20	E03C9	Soil

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

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

Data Received by:_____ Date:_____

PROBLEMS:

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

_____

_____

Received by Data Management Coordinator, CRL for file.

Date:_____

Signature:_____

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

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

TB

OCT 04 2001

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 9/27/01

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

TO: Data User: Weston

We have reviewed the data for the following case:

SITE NAME: Allied Paper (MI)

CASE NUMBER: 29602 SDG NUMBER: E03C9

Number and Type of Samples: 20 (Soil)

Sample Numbers: E03C9, E03A0-9, E03E0-8

Laboratory: SWOK Hrs for Review:

Following are our findings:

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

ESAT Tracking Log-In Sheet

Data Review Level 1
# of Folders 1

SOW Version # 4.2
Site/Project ID: 059BLA06

DATE RECEIVED AT CRL 9/27/01

USER Weston

SITE NAME Allied Paper (MI)

CASE/SAS NUMBER 29602 SDG. NO. E03C9

SAMPLING DATE 8/16/01 DATE SHIPPED 8/17/01

CONTRACT LAB SWOK

NUMBER OF SAMPLES 20 DATE TO ETM

SAMPLES	MATRIX			ANALYSES
E03C9	Soil	Water	Other	PCBs
E03D0-9	Soil	Water	Other	
E03E0-8	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 *

SEP 27 2001

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME SOUTHWEST LABORATORY OF OKLAHOMA
CITY/STATE BROKEN ARROW, OKLAHOMA
CASE NO. 29603 SDG NO. E0361 SDG NOS. TO FOLLOW
SAS NO.
CONTRACT NO.
SOW NO. OLM04.2

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

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
1. Inventory Sheet (Form DC-2) (Do not Number)			EM	
2. SDG Case Narrative	1	2		
3. SDG Cover Sheet/Traffic Report	3	5		
4. Volatiles Data				
a. QC Summary				
System Monitoring Compound Summary (Form II	N/A	N/A		
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. 29002 SDG NO. E0329 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)	N/A	N/A	EM	
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	6	7		
MS/MSD Duplicate Summary (Form III PEST)	8	9		
Method Blank Summary (Form IV PEST)	10	11		

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

CASE NO. 29602 SDG NO. E0309 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. Pesticides Data (Cont.)				
b. Sample Data	12	238		
TCL Results - Organic Analysis Data Sheet (Form I PEST)			EM	
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	239	403		
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	404	435		
Matrix Spke/Matrix Spike Duplicate Data	436	458		

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

CASE NO. 29602 SDG NO. 80309 SDG NOS. TO FOLLOW _____
SAS NO. _____

	PAGE NOs FROM	TO	CHECK LAB	EPA
6. Pesticides Data (Cont.)				
e. Raw GPC Data	459	502	EM	
f. Raw Florisil Data	N/A	N/A		
7. Miscellaneous Data				
Original preparation and analysis forms or of preparation and analysis logbook pages	503	508		
Internal sample and sample extract transfer chain-of-custody records	509	512		
Screening records	N/A	N/A		
All instrument output, including strip charts from screening activities (describe or list)				
8. EPA Shipping/Receiving Documents				
Airbills (No. of shipments _____)	513	513	24hr 9-25-01	
Chain-of-Custody Records	514	~~535~~ 513		
Sample Tags	514 ~~N/A~~	535		
Sample Log-in Sheet (Lab & DC1)	536	539		
Miscellaneous Shipping/Receiving Records (describe or list)				
E-mails, American Analytical	540	549		
Request Form	N/A	N/A		
9. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
10. Other Records (describe or list)				
Telephone Communication Log				

11. Comments: _____

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

CASE NO. 29602 SDG NO. E0329 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

Completed by: Carolyn Tackett (Signature) Carolyn Tackett/DATA (Printed Name/Title) 9-26-01 (Date)
(CLP Lab)

Verified by: Emma Morton (Signature) Emma Morton Clerk (Printed Name/Title) 9-26-01 (Date)
(CLP Lab)

Audited by: _____ (Signature) _____ (Printed Name/Title) _____ (Date)
(EPA)

SEP 2 7 2001

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

SDG NARRATIVE

September 26, 2001

CONTRACT: 68W99079

CASE NO: 29602

SDG NO: E03C9

SAMPLES: E03C9, E03C9DL, E03C9MS, E03C9MSD, E03D0, E03D0DL, E03D1, E03D1DL, E03D2, E03D3, E03D4, E03D5, E03D6, E03D6DL, E03D7, E03D7DL, E03D8, E03D8DL, E03D9, E03E0, E03E1, E03E2, E03E3, E03E4, E03E5, E03E6, E03E7 and E03E8.

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 analyzed on J&W dual analytical columns DB-17MS and DB-XLB (proprietary phase composition, length 30m, id 0.32 mm, film thickness 0.5 um) 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. Helium used as the carrier gas.

The following samples in this SDG labeled with a DL are considered billable since these samples required dilutions to get target compounds within instruments linear range: E03C9DL, E03D0DL, E03D1DL, E03D6DL, E03D7DL and E03D8DL.

The sample cooler arrived at 11.8 degrees Celsius.

The modification for these soils included the following cleanups: OLM04.2 GPC cleanup followed by SW846 method 3630 Silica Gel Cleanup which was then followed by SW846- method 3665 sulfuric acid cleanup prior to analyses. No florisil clean up was necessary as part of the modification. 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 with the following exceptions: Samples E03C9MSD, E03D0, E03D1, E03D7 and E03D8 had high recovery for DCB on one column. These samples were not re-extracted since recoveries were within QC limits on

Contract Laboratory Program

Sample Delivery Group (SDG)
Cover Sheet

SDG Number E03C9

Laboratory Name Southwest Laboratory of Ok. Laboratory Code SWOK

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

Analyses Price 569.00 SDG Turnaround 21

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) E03C9	7) E03D5	13) E03E1	19) E03E7
2) E03D0	8) E03D6	14) E03E2	20) E03E8
3) E03D1	9) E03D7	15) E03E3	21)
4) E03D2	10) E03D8	16) E03E4	22)
5) E03D3	11) E03D9	17) E03E5	23)
6) E03D4	12) E03E0	18) E03E6	24)

E03C9	E03E8
First Sample in SDG	Last Sample in SDG
08/20/2001	08/20/2001
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 Hang In Boy Date 8-21-01

Version 2.0

Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 29602
DAS No:
SDG No: E03C9

L

Date Shipped: 8/17/2001
Carrier Name: FedEx
Airbill: 821876980410
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	8/17/01 1245		8-20-01 8:15
2			
3			
4			

For Lab Use Only

Lab Contract No: 68W99079
Unit Price: 869.00
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 E03C9
E03C9	Sediment/ Joe Ruiz	L/G	PCBs (21)	050643 (Ice Only) (1)	AP-SD030-20-01	S:	8/16/2001	17:40		OK
E03D0	Sediment/ Joe Ruiz	L/G	PCBs (21)	050644 (Ice Only) (1)	AP-SD030-20-02	S:	8/16/2001	17:40		8-20-01
E03D1	Sediment/ Joe Ruiz	L/G	PCBs (21)	050645 (Ice Only) (1)	AP-SD030-20-03	S:	8/16/2001	17:40		
E03D2	Sediment/ Joe Ruiz	L/G	PCBs (21)	050646 (Ice Only) (1)	AP-SD030-20-04	S:	8/16/2001	17:40		
E03D3	Sediment/ Joe Ruiz	L/G	PCBs (21)	050647 (Ice Only) (1)	AP-SD030-20-05	S:	8/16/2001	17:40		
E03D4	Sediment/ Joe Ruiz	L/G	PCBs (21)	050648 (Ice Only) (1)	AP-SD030-20-06	S:	8/16/2001	17:40		
E03D5	Sediment/ Joe Ruiz	L/G	PCBs (21)	050649 (Ice Only) (1)	AP-SD030-20-07	S:	8/16/2001	17:40		
E03D6	Sediment/ Joe Ruiz	L/G	PCBs (21)	050650 (Ice Only) (1)	AP-SD030-17-01	S:	8/16/2001	18:20		
E03D7	Sediment/ Joe Ruiz	L/G	PCBs (21)	050651 (Ice Only) (1)	AP-SD030-17-02	S:	8/16/2001	18:20		
E03D8	Sediment/ Joe Ruiz	L/G	PCBs (21)	050652 (Ice Only) (1)	AP-SD030-17-03	S:	8/16/2001	18:20		

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E03C9, E03E9, E03H1, E03K0, E03M0	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 11.8°C TB	Chain of Custody Seal Number: 177840, 177841
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: 5-490998136-081701-0002

LABORATORY COPY

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

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

Case No:	29602
DAS No:	
SDG No:	E03C9

L

Date Shipped:	8/17/2001
Carrier Name:	FedEx
Airbill:	821876980410
Shipped to:	Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
[signature]	8/17/01 1245	[signature]	8-20-01 8:15
2			
3			
4			

Sampler Signature: [signature]

For Lab Use Only

Lab Contract No:	68W99079
Unit Price:	$69.00
Transfer To:	
Lab Contract No:	
Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION		SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt E03C9
E03D9	Sediment/ Joe Ruiz	L/G	PCBs (21)	050653 (Ice Only) (1)	AP-SD030-17-04	S:	8/16/2001	18:20		OK
E03E0	Sediment/ Joe Ruiz	L/G	PCBs (21)	050654 (Ice Only) (1)	AP-SD030-17-05	S:	8/16/2001	18:20		8-20-01
E03E1	Sediment/ Joe Ruiz	L/G	PCBs (21)	050655 (Ice Only) (1)	AP-SD030-17-06	S:	8/16/2001	18:20		
E03E2	Sediment/ Joe Ruiz	L/G	PCBs (21)	050656 (Ice Only) (1)	AP-SD030-17-06DP	S:	8/16/2001	18:20		
E03E3	Sediment/ Joe Ruiz	L/G	PCBs (21)	050657 (Ice Only) (1)	AP-SD036-31-01	S:	8/15/2001	17:12		
E03E4	Sediment/ Joe Ruiz	L/G	PCBs (21)	050658 (Ice Only) (1)	AP-SD036-31-02	S:	8/15/2001	17:12		
E03E5	Sediment/ Joe Ruiz	L/G	PCBs (21)	050659 (Ice Only) (1)	AP-SD036-32-01	S:	8/15/2001	17:19		
E03E6	Sediment/ Joe Ruiz	L/G	PCBs (21)	050660 (Ice Only) (1)	AP-SD036-32-02	S:	8/15/2001	17:19		
E03E7	Sediment/ Joe Ruiz	L/G	PCBs (21)	050661 (Ice Only) (1)	AP-SD036-32-03	S:	8/15/2001	17:19		
E03E8	Sediment/ Joe Ruiz	L/G	PCBs (21)	050662 (Ice Only) (1)	AP-SD036-32-04	S:	8/15/2001	17:19		

* SDG Final Sample

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	E03C9, E03E9, E03H1, E03K0, E03M0		11.8°C T.B.	177840, 177841
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: 5-490998136-081701-0002

LABORATORY COPY

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

2F

SOIL AROCLOR SURROGATE RECOVERY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

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

	CLIENT SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	TOT OUT
01	PBLKSB	78	80	89	95	0
02	ELCS1	79	81	86	91	0
03	ELCS2	84	88	94	98	0
04	E03C9	91	94	86	158	0
05	E03C9MS	93	96	126	155	0
06	E03C9MSD	87	91	141	224*	1
07	E03D0	88	95	144	250*	1
08	E03D1	66	70	165	179*	1
09	E03D2	77	83	101	98	0
10	E03D3	67	73	68	76	0
11	E03D4	78	85	71	82	0
12	E03D5	80	83	74	86	0
13	E03D6	79	81	89	117	0
14	E03D7	85	89	110	254*	1
15	E03D8	90	89	104	185*	1
16	E03D9	86	87	98	101	0
17	E03E0	79	80	86	90	0
18	E03E1	85	84	86	98	0
19	E03E2	83	82	89	93	0
20	E03E3	98	99	96	104	0
21	E03E4	84	81	82	90	0
22	E03E5	86	85	89	92	0
23	E03E6	77	78	83	85	0
24	E03E7	78	77	86	92	0
25	E03E8	77	75	84	90	0
26	E03C9DL	110	97	165	202D	0
27	E03D0DL	106	91	233D	235D	0
28	E03D1DL	90	78	271D	321D	0
29	E03D6DL	93	82	171D	225D	0
30	E03D7DL	100	88	183D	321D	0

QC LIMITS

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

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

2F
SOIL AROCLOR SURROGATE RECOVERY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

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

	CLIENT SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	TOT OUT
01	E03D8DL	108	97	156	227D	0
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

QC LIMITS

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

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

3H

SOIL AROCLOR LABORATORY CONTROL SPIKE/ DUPLICATE RECOVERY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

LCS Sample NO.: ELCS1

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Aroclor-1254	133	102	77	29-135

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1254	133	112	84	9	50	29-135

Column to be used to flag recovery values

* Values outside of QC limits

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

Comments: _____

3F

SOIL AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Matrix Spike - Client Sample NO.: E03C9

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Aroclor-1254	221	1650	1600	0*	29-135

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1254	221	1550	0 *	3	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: 2 out of 2 outside limits

Comments: _____

_____

9

4C

AROCLOR METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PBLKSB

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Lab Sample ID: BL0823SB Lab File ID: 3_091707

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

Sulfur Cleanup: (Y/N) Y Date Extracted: 08/23/01

Date Analyzed (1): 09/17/01 Date Analyzed (2): 09/17/01

Time Analyzed (1): 1936 Time Analyzed (2): 1936

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

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

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	ELCS1	LC0823SB	09/17/01	09/17/01
02	ELCS2	LD0823SB	09/17/01	09/17/01
03	E03C9	47348.01	09/18/01	09/18/01
04	E03C9MS	47348.02MS	09/18/01	09/18/01
05	E03C9MSD	47348.03MSD	09/18/01	09/18/01
06	E03D0	47348.04	09/18/01	09/18/01
07	E03D1	47348.05	09/18/01	09/18/01
08	E03D2	47348.06	09/18/01	09/18/01
09	E03D3	47348.07	09/18/01	09/18/01
10	E03D4	47348.08	09/18/01	09/18/01
11	E03D5	47348.09	09/18/01	09/18/01
12	E03D6	47348.10	09/18/01	09/18/01
13	E03D7	47348.11	09/18/01	09/18/01
14	E03D8	47348.12	09/18/01	09/18/01
15	E03D9	47348.13	09/18/01	09/18/01
16	E03E0	47348.14	09/18/01	09/18/01
17	E03E1	47348.15	09/18/01	09/18/01
18	E03E2	47348.16	09/18/01	09/18/01
19	E03E3	47348.17	09/18/01	09/18/01
20	E03E4	47348.18	09/18/01	09/18/01
21	E03E5	47348.19	09/18/01	09/18/01
22	E03E6	47348.20	09/18/01	09/18/01
23	E03E7	47348.21	09/18/01	09/18/01
24	E03E8	47348.22	09/18/01	09/18/01
25	E03C9DL	47348.01DL	09/19/01	09/19/01
26	E03D0DL	47348.04DL	09/19/01	09/19/01

Comments: _____

4C

AROCLOR METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PBLKSB

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Lab Sample ID: BL0823SB Lab File ID: 3_091707

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

Sulfur Cleanup: (Y/N) Y Date Extracted: 08/23/01

Date Analyzed (1): 09/17/01 Date Analyzed (2): 09/17/01

Time Analyzed (1): 1936 Time Analyzed (2): 1936

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

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

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	E03D1DL	47348.05DL	09/19/01	09/19/01
02	E03D6DL	47348.10DL	09/19/01	09/19/01
03	E03D7DL	47348.11DL	09/19/01	09/19/01
04	E03D8DL	47348.12DL	09/19/01	09/19/01
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

Comments: _____

page 2 of 2

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E03C9

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Matrix: (soil/water) SOIL Lab Sample ID: 47348.01

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

% Moisture: 40 decanted: (Y/N) __ Date Received: 08/20/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/23/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/18/01

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	55	UJ
11104-28-2	Aroclor-1221	55	UJ
11141-16-5	Aroclor-1232	55	UJ
53469-21-9	Aroclor-1242	~~1400~~ 2300	~~EP~~ DJ
12672-29-6	Aroclor-1248	55	UJ
11097-69-1	Aroclor-1254	~~1700~~ 2800	~~E~~ DJ
11096-82-5	Aroclor-1260	~~620~~ 870	~~EP~~ DPJ
Surrogate amount spiked		11.08	

apply this results
TBS 10-11-01

5970

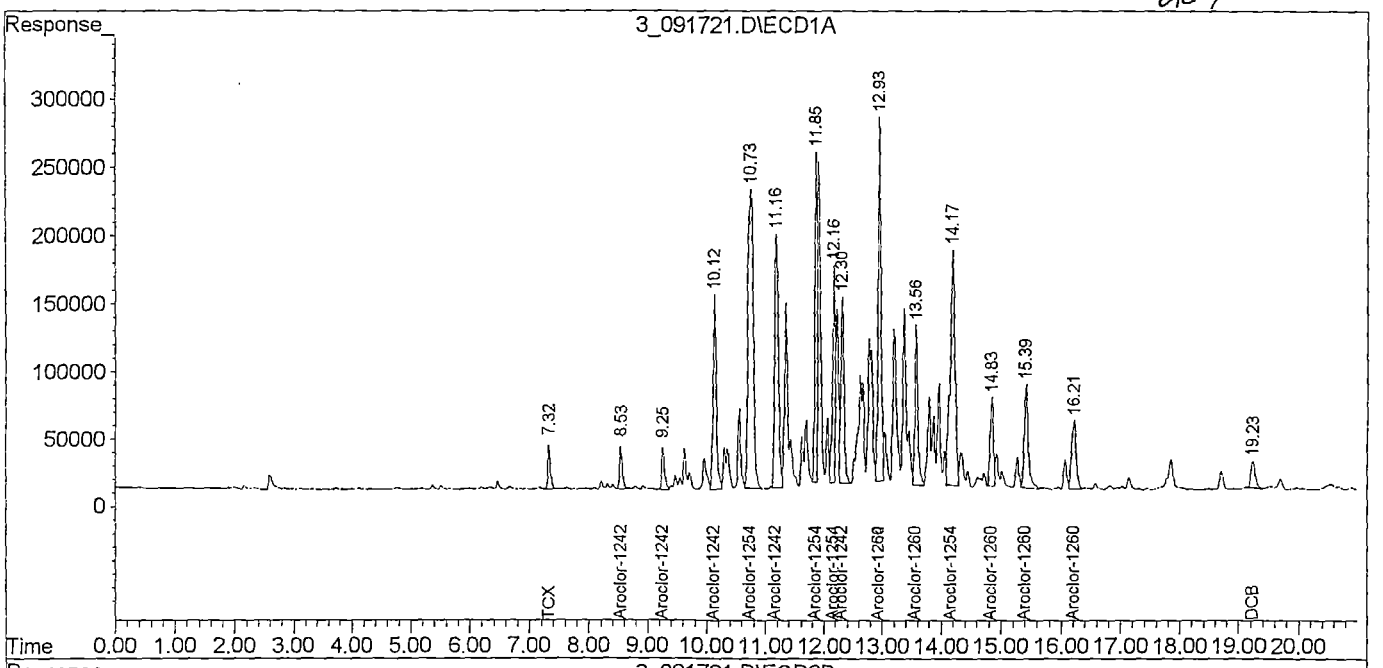
Chromatographic Report

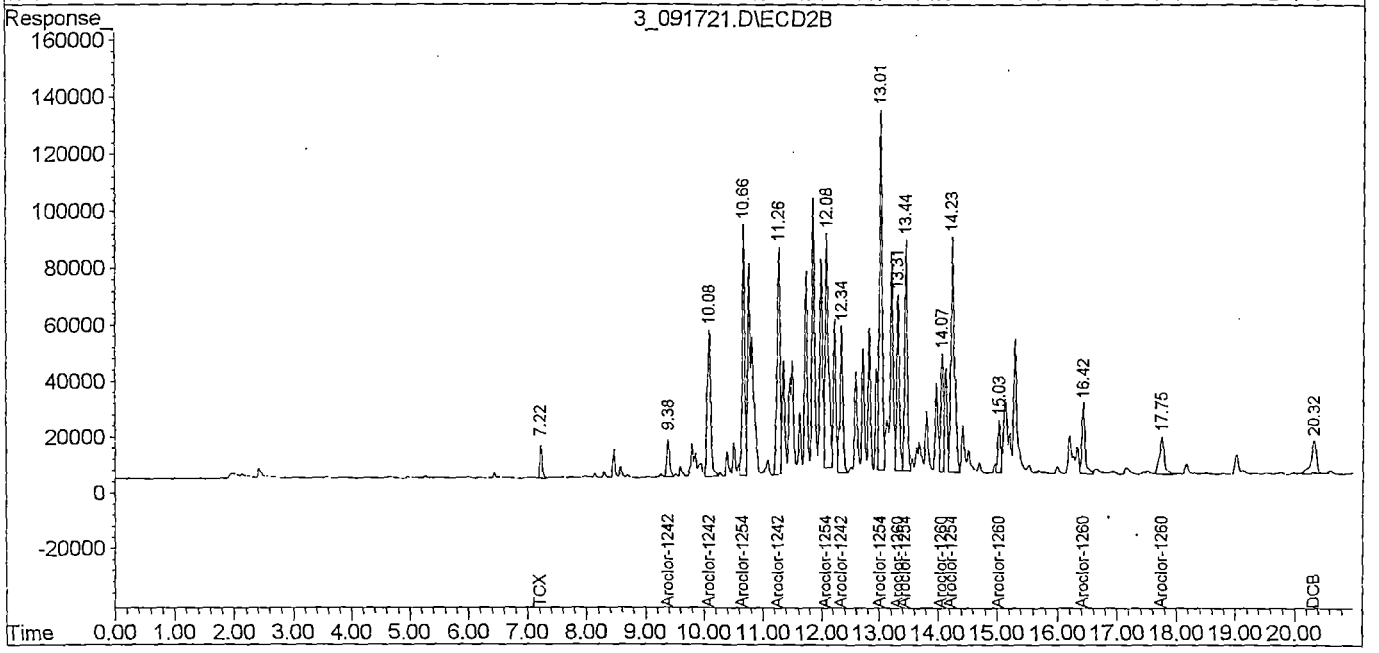
Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091721.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091721.D\ECD2B.CH
Acq On : 18 Sep 2001 1:35 Operator: BTB
Sample : 47348.01 *E03C9 * Inst : HP_03
Misc : *EPA*30.1G/5.0ML*40 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 24 15:46 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

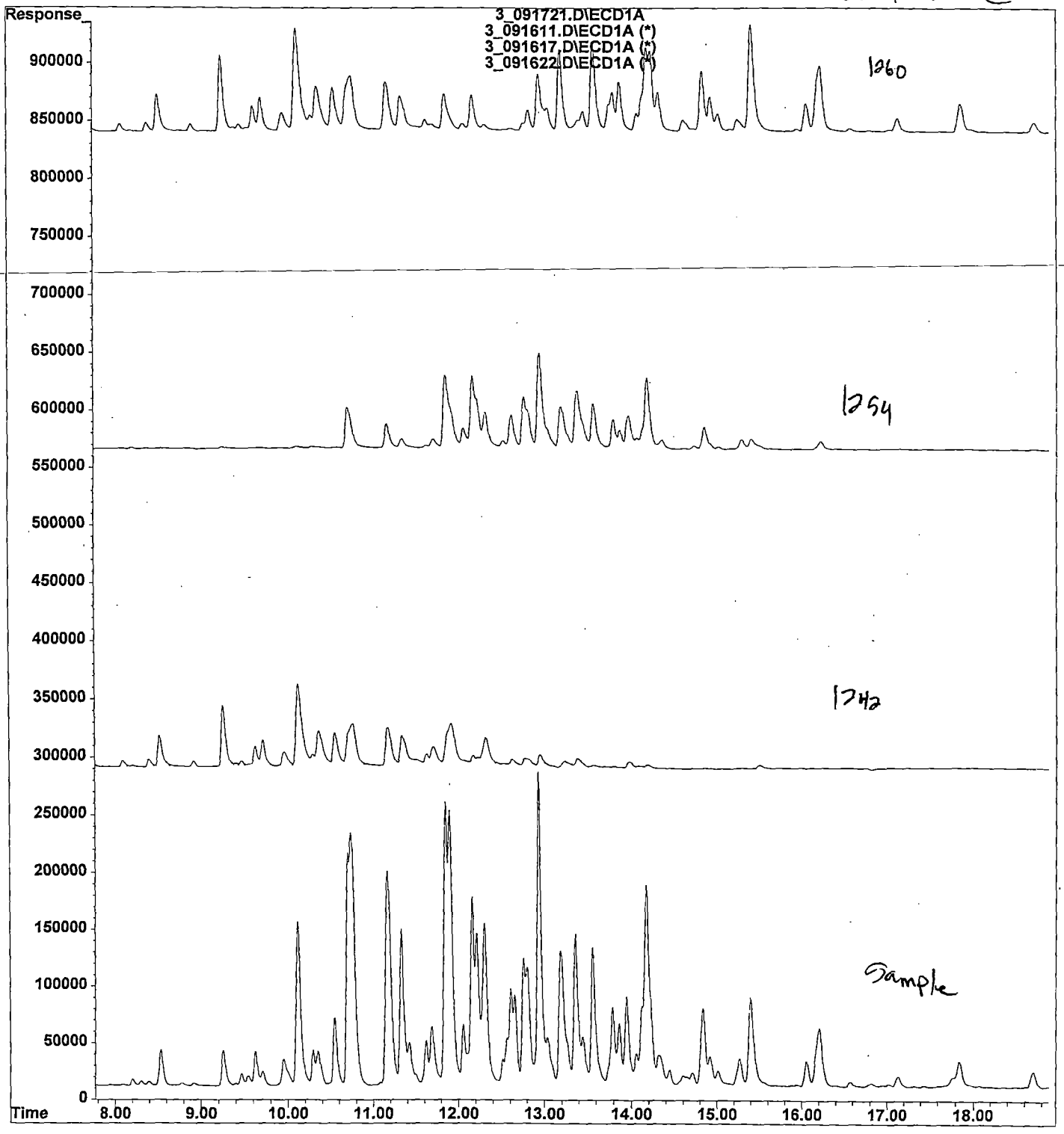
OK 9-25-01





File : F:\HPCHEM\HP\3\DATA\09_17_01\3_091721.D
Operator : BTB
Acquired : 18 Sep 2001 1:35 using AcqMethod OLM03.M
Instrument : HP_03
Sample Name: 47348.01 *E03C9 *
Misc Info : *EPA*30.1G/5.0ML*40
Vial Number: 21

OK 9-21-01



Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091721.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091721.D\ECD2B.CH
Acq On : 18 Sep 2001 1:35 Operator: BTB
Sample : 47348.01 *E03C9 * Inst : HP_03
Misc : *EPA*30.1G/5.0ML*40 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 24 15:46 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

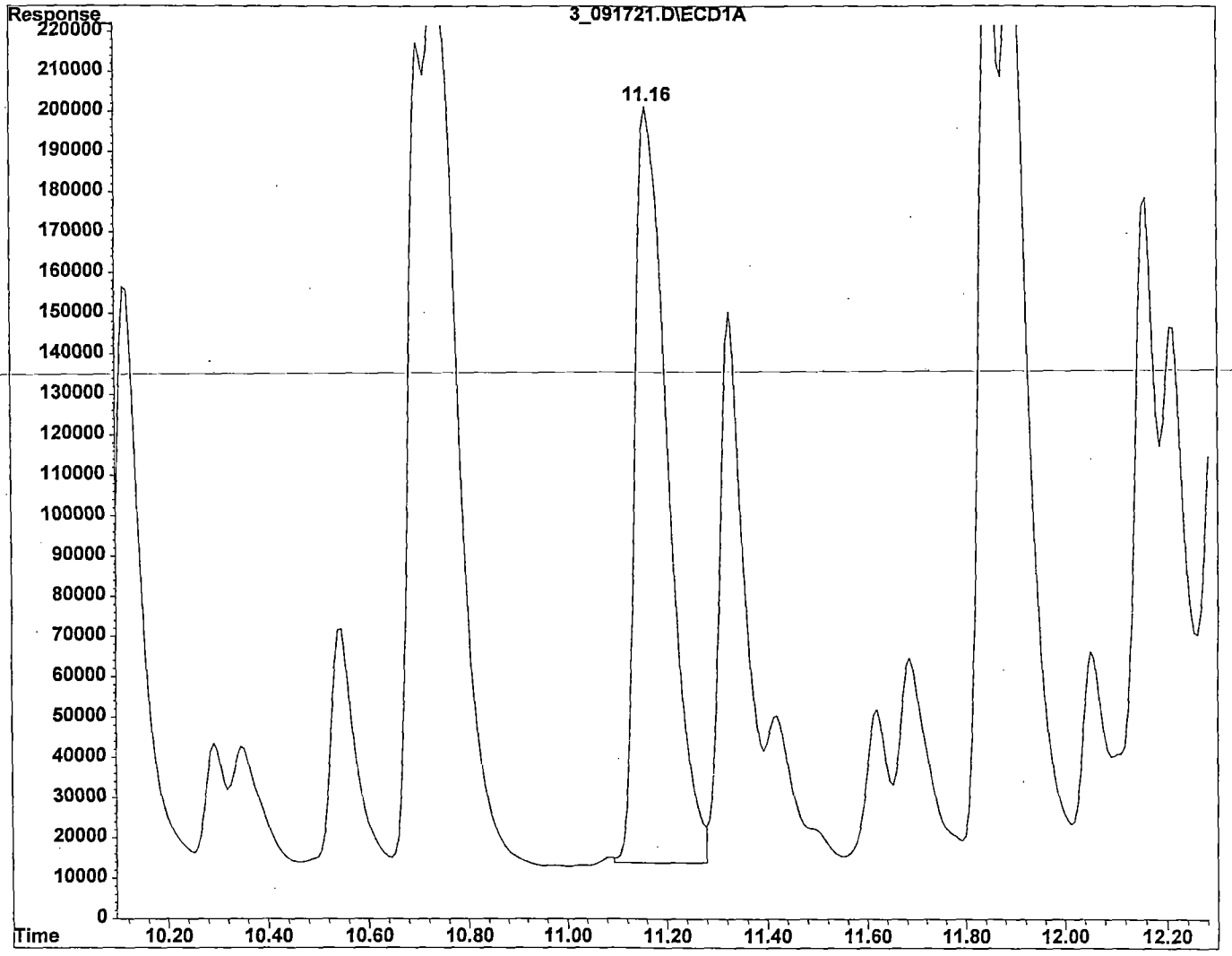
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	984729	303397	10.1	10.4
	Spiked Amount 11.074			Recovery	=	91.20%	93.91%
22)	S DCB	19.23	20.32	970760	775535	9.554m BTB 09/24/01	17.5m # BTB 09/24/01
	Spiked Amount 11.074			Recovery	=	86.27%	158.03%
	Target Compounds:						
7)	L4 Aroclor-1242	8.54	0.00	1042525	0	510.2	N.D. d #
8)	L4 Aroclor-1242 {2}	9.26	9.38	1047425	468315	294.0	377.6 #
9)	L4 Aroclor-1242 {3}	10.12	10.08	5424935	2183780	825.6 E	914.3 E
10)	L4 Aroclor-1242 {4}	11.16	11.26	8533408	2656687	2959.0mE BTB 09/24/01	3399.6 E
11)	L4 Aroclor-1242 {5}	12.30	12.34	5500444	1941176	2447.2 E	2798.2mE
	Sum Aroclor-1242			21548736	7249958	7036.0	7489.8
	Average Aroclor-1242					1407.203	1872.440
12)	L6 Aroclor-1254	10.73	10.66	13877132	2717789	3798.9mE	3088.0 E
13)	L6 Aroclor-1254 {2}	11.85	12.08	6170613	3324241	912.0 E	1677.4 E#
14)	L6 Aroclor-1254 {3}	12.16	13.01	4624675	4011168	747.5 E	1510.3 E#
15)	L6 Aroclor-1254 {4}	12.94	13.44	8775021	2403860	1230.9 E	1639.6 E#
16)	L6 Aroclor-1254 {5}	14.17	14.24	9112972	3452187	1578.3 E	1759.0 E
	Sum Aroclor-1254			42560412	15909246	8267.6	9674.2
	Average Aroclor-1254					1653.510	1934.837
17)	L7 Aroclor-1260	12.94	13.31	8775021	1953710	2275.3 E	859.7 E#
18)	L7 Aroclor-1260 {2}	13.56	14.07	4243776	1358947	723.4mE	916.2 E#
19)	L7 Aroclor-1260 {3}	14.84	15.03	2504510	560866	667.6	287.7 #
20)	L7 Aroclor-1260 {4}	15.40	16.42	3430957	986697	406.4	493.6
21)	L7 Aroclor-1260 {5}	16.21	17.75	2818773	760298	438.5	539.5
	Sum Aroclor-1260			21773038	5620517	2497.9	1714.6
	Average Aroclor-1260					902.227	619.317

(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\3\DATA\09_17_01\3_091721.D
Date Acquired: 18 Sep 2001 1:35
Inst: HP_03 Operator ID: BTB
Name: 47348.01 *E03C9 *
Misc: *EPA*30.1G/5.0ML*40
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:33 2001 Quant Results File: XPCBI16.RES



OK 9-21-01

Aroclor-1242 {4} 11.16min area: 8533408 m

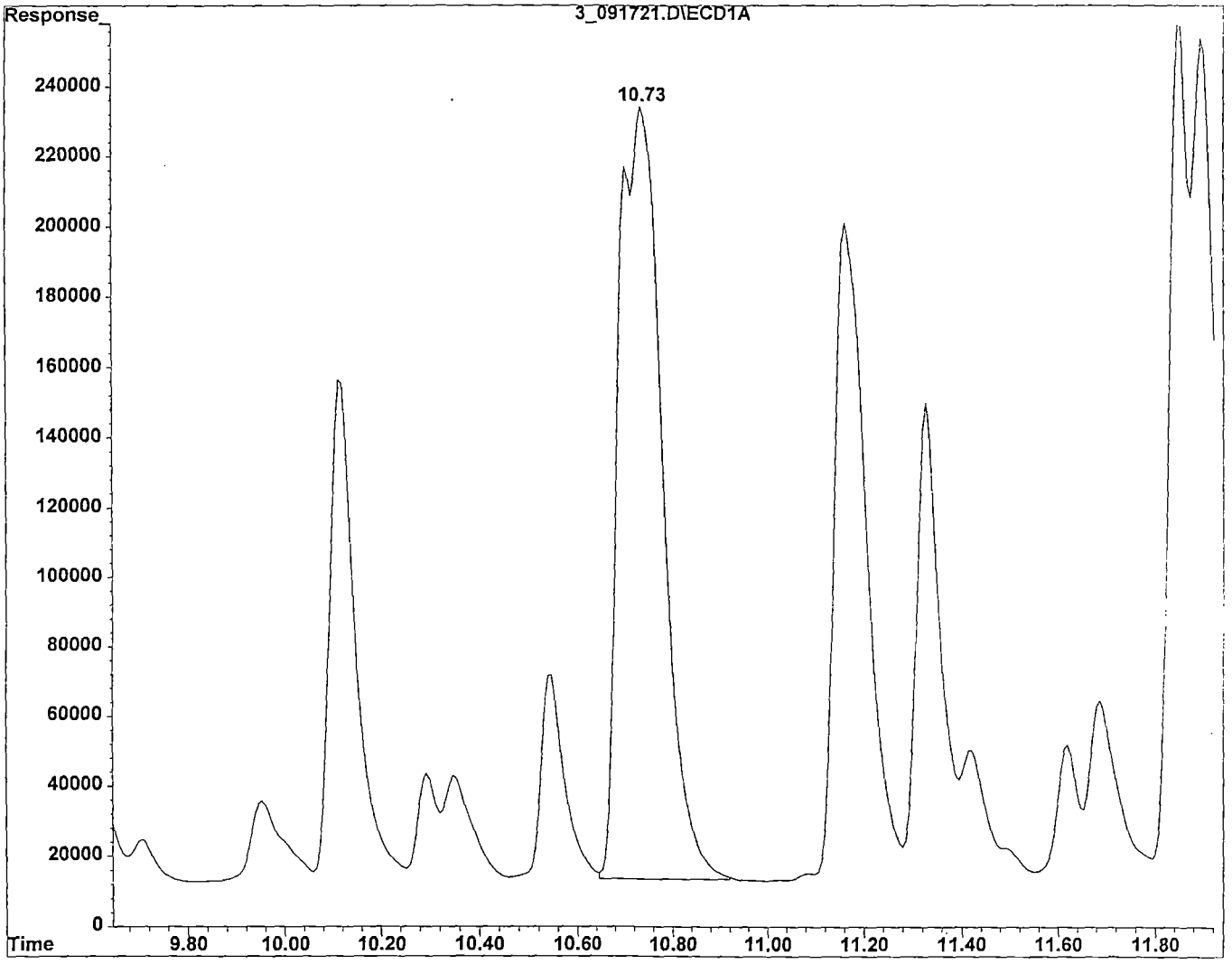
BTB 091901

Integration Time Range: 11.10 - 11.28

F:\HPCHEM\HP\3\DATA\09_17_01\3_091721.D
Report generated: Wed Sep 19 11:23:10 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091721.D
Date Acquired: 18 Sep 2001 1:35
Inst: HP_03 Operator ID: BTB
Name: 47348.01 *E03C9 *
Misc: *EPA*30.1G/5.0ML*40
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 24 15:46 2001 Quant Results File: XPCBI16.RES



OK 9-25-01 BTB

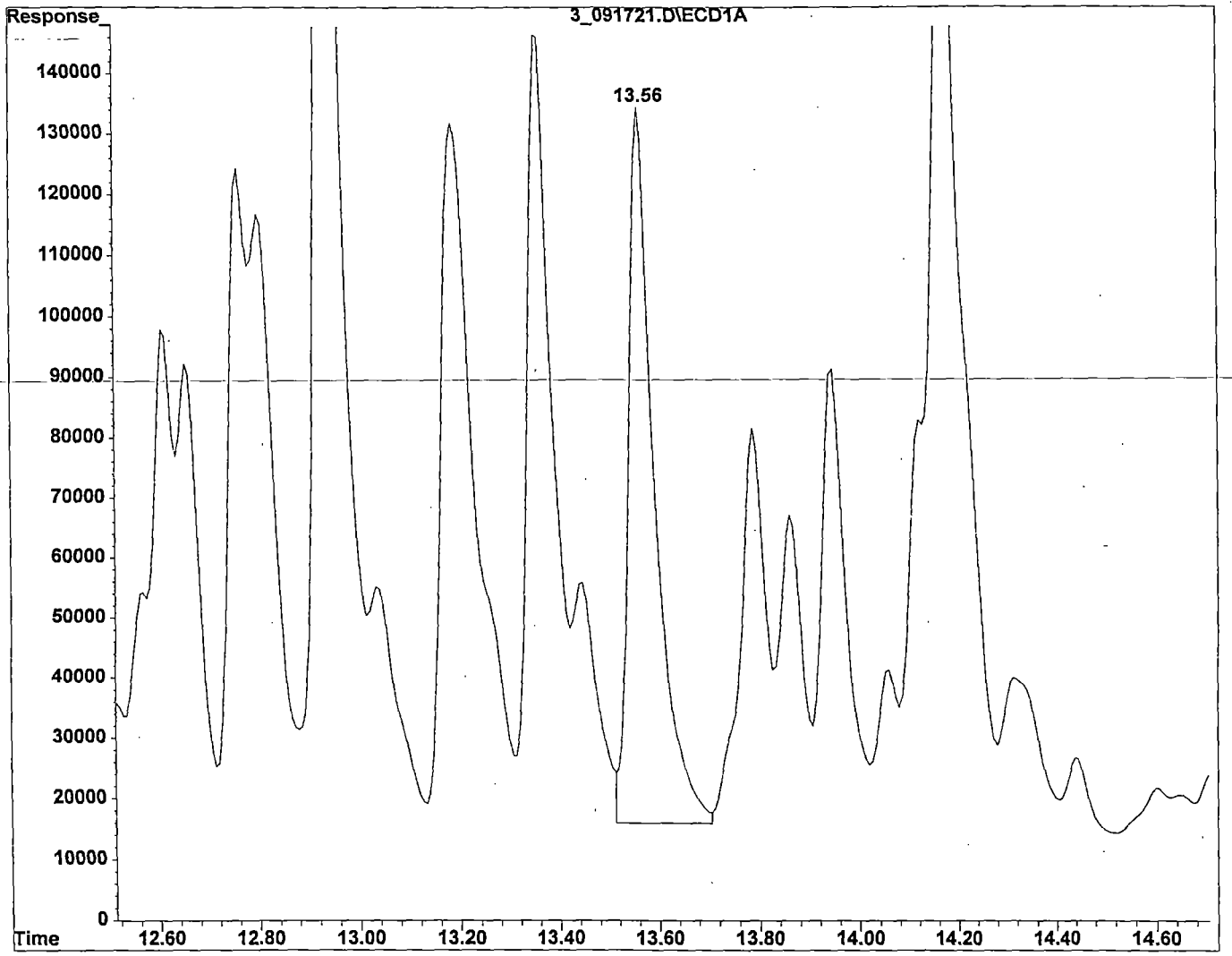
Aroclor-1254 10.73min area: 13877132 m BTB 092401

Integration Time Range: 10.65 - 10.92

F:\HPCHEM\HP\3\DATA\09_17_01\3_091721.D
Report generated: Mon Sep 24 16:12:35 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091721.D
Date Acquired: 18 Sep 2001 1:35
Inst: HP_03 Operator ID: BTB
Name: 47348.01 *E03C9 *
Misc: *EPA*30.1G/5.0ML*40
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:33 2001 Quant Results File: XPCBI16.RES



ok 9-21-01 BTB

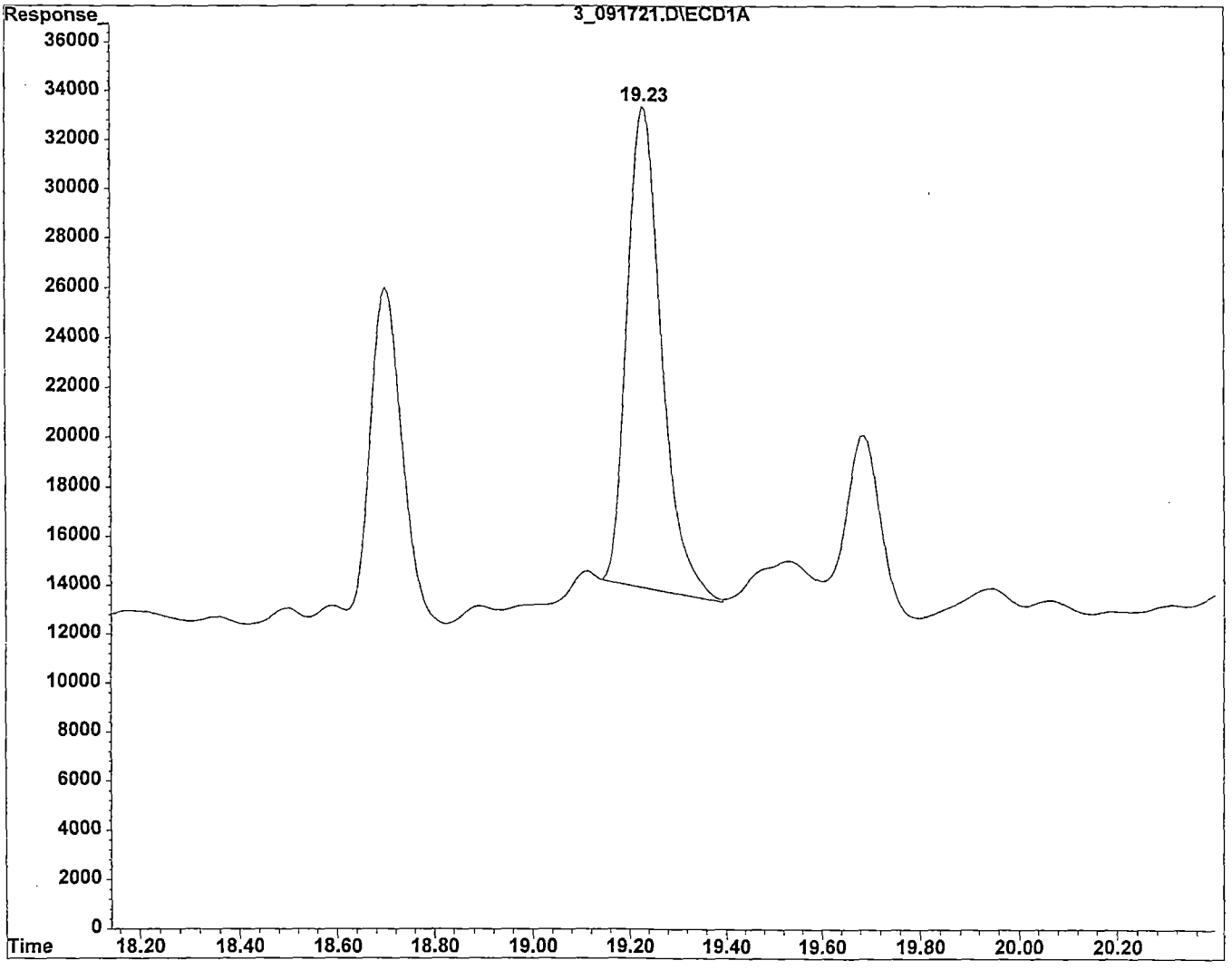
Aroclor-1260 {2} 13.56min area: 4243776 m
BTB 091901

Integration Time Range: 13.51 - 13.70

F:\HPCHEM\HP\3\DATA\09_17_01\3_091721.D
Report generated: Wed Sep 19 11:23:10 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091721.D
Date Acquired: 18 Sep 2001 1:35
Inst: HP_03 Operator ID: BTB
Name: 47348.01 *E03C9 *
Misc: *EPA*30.1G/5.0ML*40
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:33 2001 Quant Results File: XPCBI16.RES



OK 9-21-01

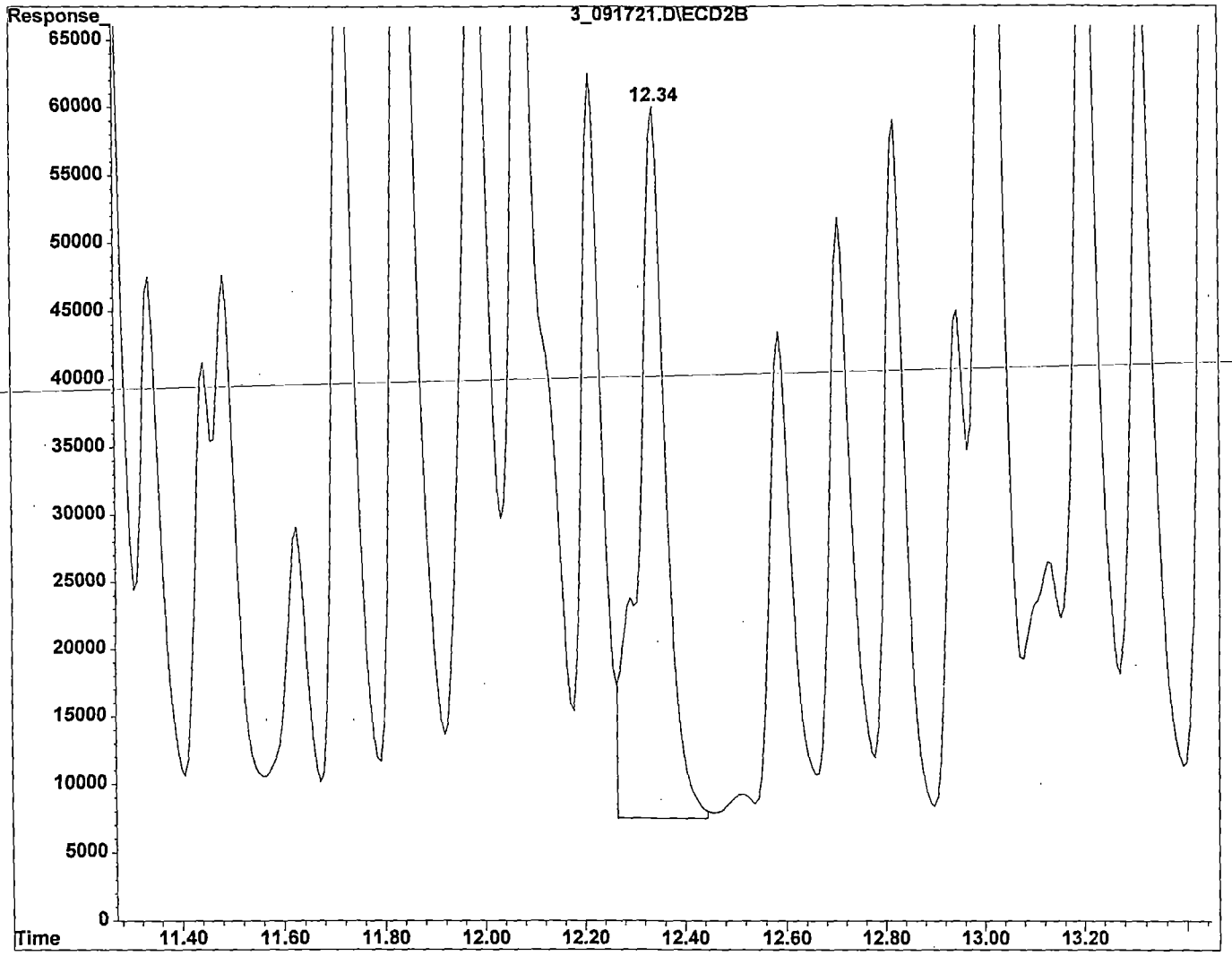
DCB 19.23min area: 970760 m BTB 09/19/01

Integration Time Range: 19.14 - 19.40

F:\HPCHEM\HP\3\DATA\09_17_01\3_091721.D
Report generated: Wed Sep 19 11:23:11 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091721.D
Date Acquired: 18 Sep 2001 1:35
Inst: HP_03 Operator ID: BTB
Name: 47348.01 *E03C9 *
Misc: *EPA*30.1G/5.0ML*40
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:33 2001 Quant Results File: XPCBI16.RES



GK 9-21-01

Aroclor-1242 {5} #2 12.34min area: 1941176 m

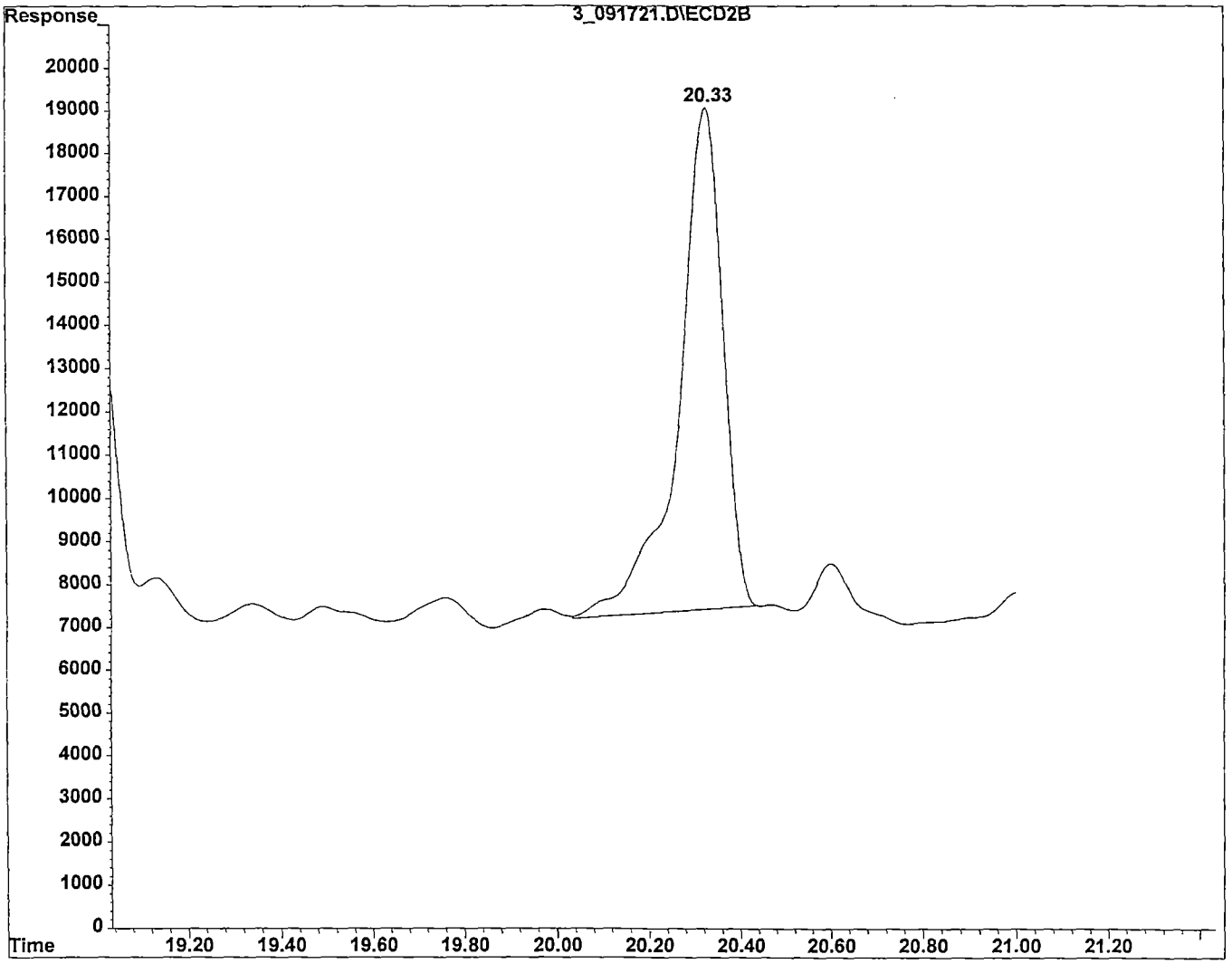
Integration Time Range: 12.27 - 12.45

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091721.D
Report generated: Wed Sep 19 11:23:12 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091721.D
Date Acquired: 18 Sep 2001 1:35
Inst: HP_03 Operator ID: BTB
Name: 47348.01 *E03C9 *
Misc: *EPA*30.1G/5.0ML*40
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:33 2001 Quant Results File: XPCBI16.RES



DCB #2 20.32min area: 775535 m BTB 09/18/01

OK 9-21-01

Integration Time Range: 20.03 - 20.43

F:\HPCHEM\HP\3\DATA\09_17_01\3_091721.D
Report generated: Wed Sep 19 11:23:12 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E03C9DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Matrix: (soil/water) SOIL Lab Sample ID: 47348.01DL

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

% Moisture: 40 decanted: (Y/N) __ Date Received: 08/20/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/23/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/19/01

Injection Volume: 0.5(uL) Dilution Factor: 10.0

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	550	UJ
11104-28-2	Aroclor-1221	550	UJ
11141-16-5	Aroclor-1232	550	UJ
53469-21-9	Aroclor-1242	2300	DJ
12672-29-6	Aroclor-1248	550	UJ
11097-69-1	Aroclor-1254	2800	DJ
11096-82-5	Aroclor-1260	870	DPJ
Surrogate amount spiked		11.08	

TJS
10-11-01

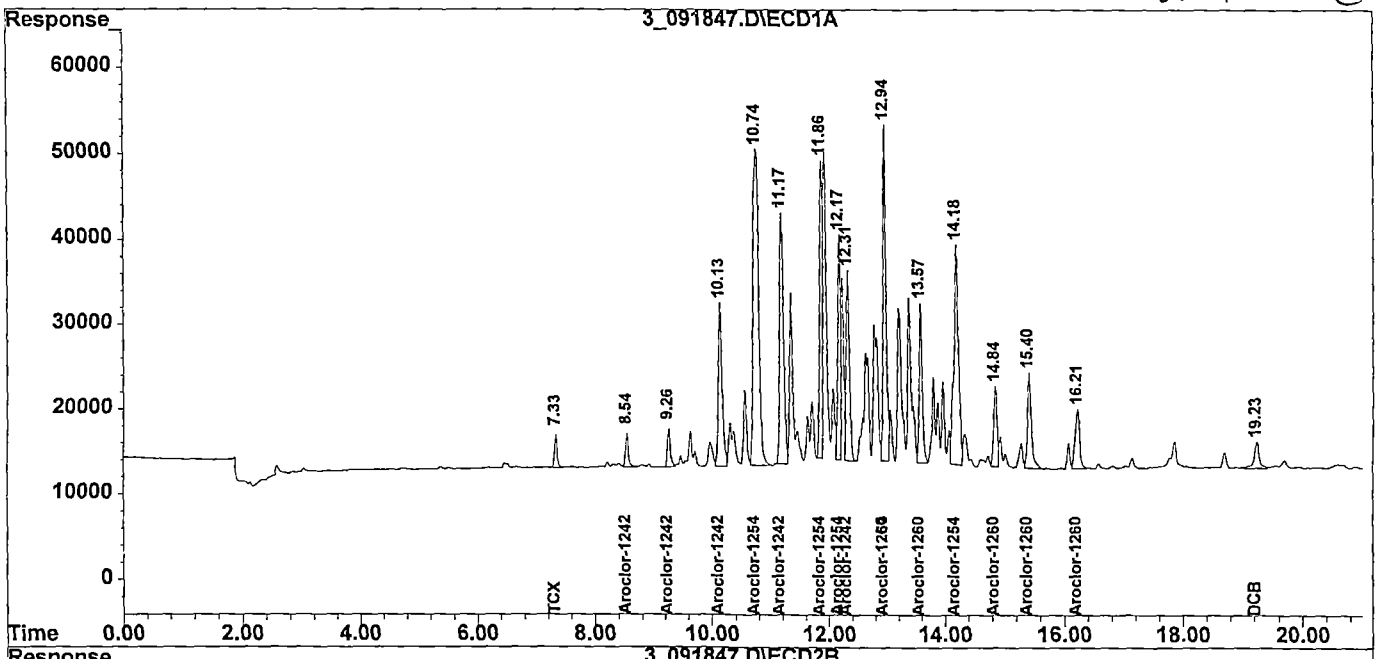
Chromatographic Report

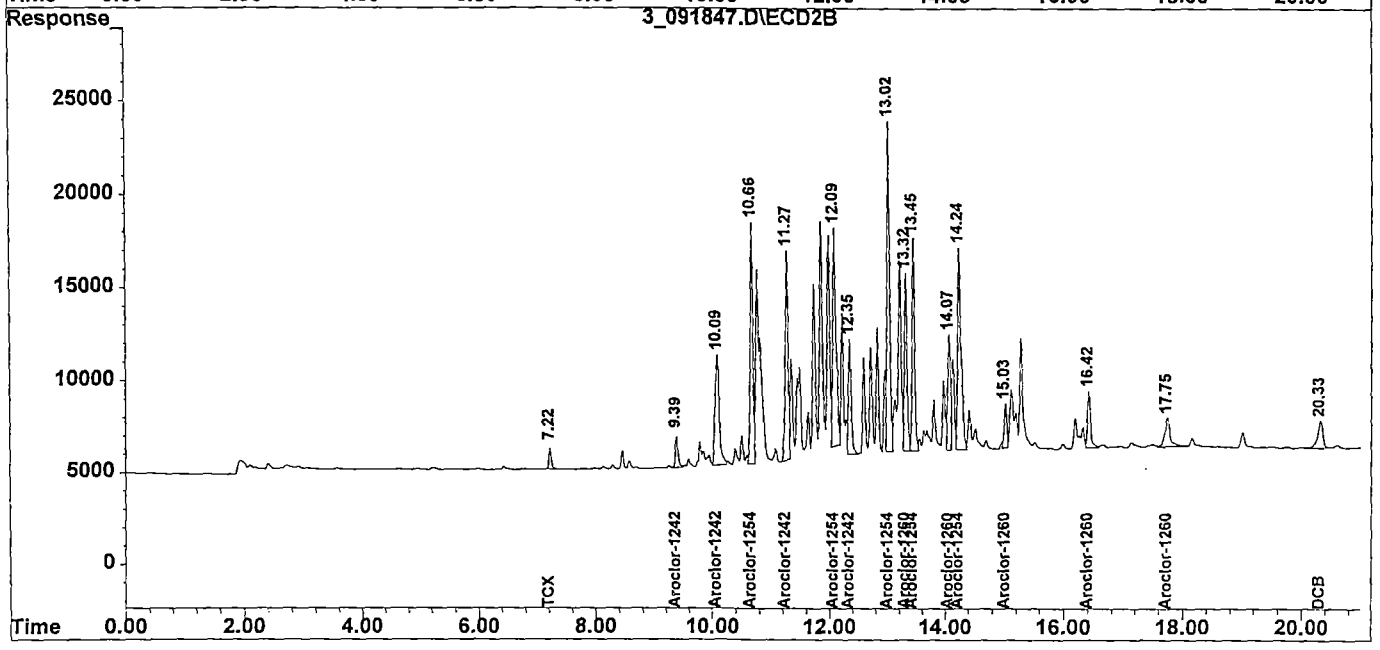
Signal #1 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091847.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091847.D\ECD2B.CH
Acq On : 19 Sep 2001 19:31 Operator: BTB
Sample : 47348.01DL *E03C9DL * Inst : HP_03
Misc : *EPA*30.1G/5.0ML*40 Dilution: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 9:12 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

OK 9-21-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091847.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091847.D\ECD2B.CH
Acq On : 19 Sep 2001 19:31 Operator: BTB
Sample : 47348.01DL *E03C9DL * Inst : HP_03
Misc : *EPA*30.1G/5.0ML*40 Dilution: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 9:12 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

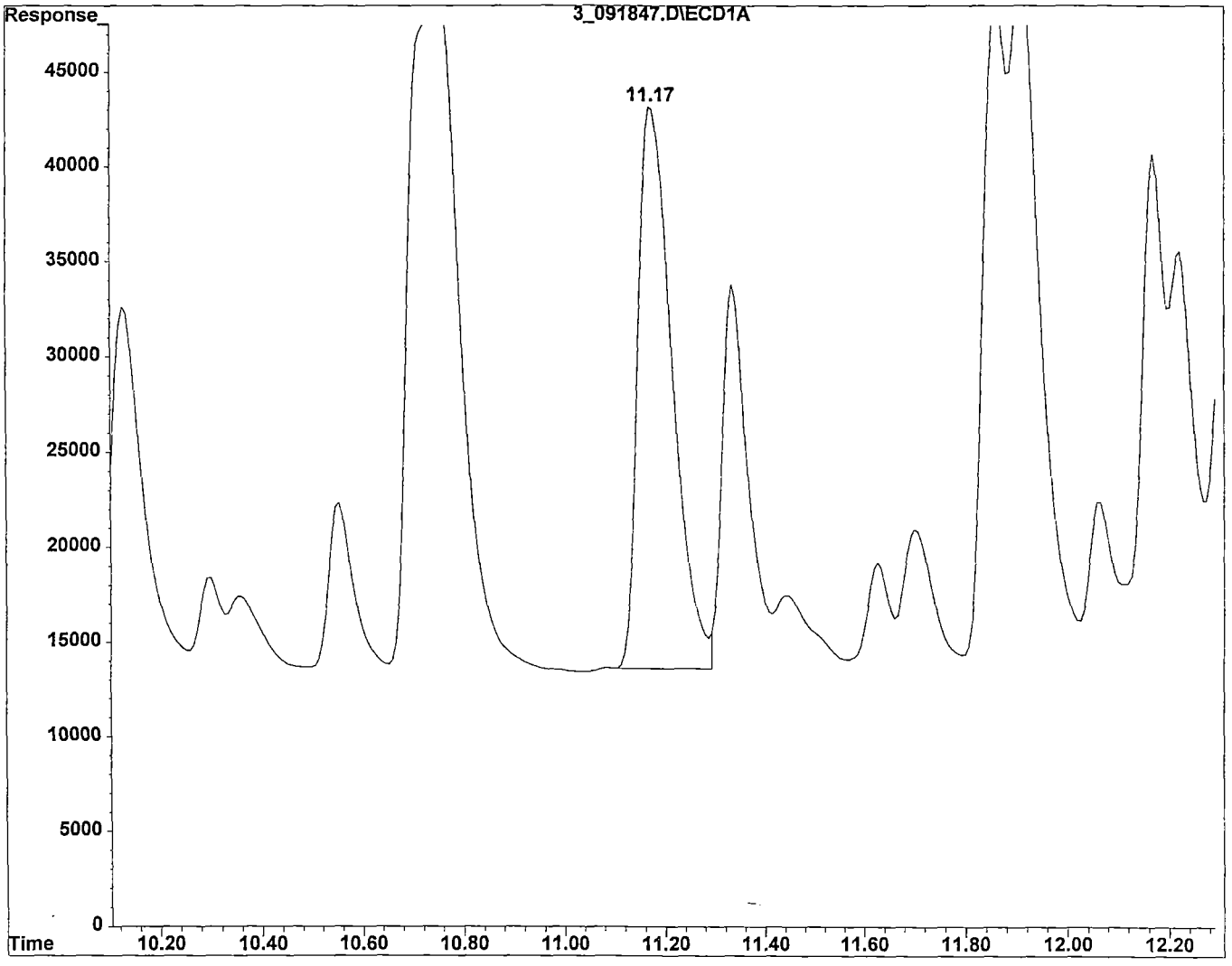
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
System Monitoring Compounds:						
1) S TCX	7.33	7.22	119071	31532	12.2	10.8
Spiked Amount 11.074			Recovery	=	110.17%	97.52%
22) S DCB	19.23	20.33	185361	98926	18.2	22.4
Spiked Amount 11.074			Recovery	=	164.35%	202.27%
Target Compounds:						
7) L4 Aroclor-1242	8.54	0.00	139134	0	681.0	N.D. d #
8) L4 Aroclor-1242 {2}	9.26	9.39	155621	57362	436.9	462.6
9) L4 Aroclor-1242 {3}	10.13	10.09	870480	294012	1324.7	1231.0
10) L4 Aroclor-1242 {4}	11.17	11.27	1411896	371627	4895.8m BTB 092001	4755.5
11) L4 Aroclor-1242 {5}	12.32	12.35	900192	211216	4005.0	3044.7m BTB 092001
Sum Aroclor-1242			3477323	934216	11343.3	9493.7
Average Aroclor-1242					2268.667	2373.425
12) L6 Aroclor-1254	10.74	10.67	2496246	414619	6833.6	4710.9 #
13) L6 Aroclor-1254 {2}	11.86	12.09	1023520	473550	1512.7	2389.5 #
14) L6 Aroclor-1254 {3}	12.17	13.02	802820	590961	1297.6	2225.1 #
15) L6 Aroclor-1254 {4}	12.94	13.45	1394621	351819	1956.3	2399.6
16) L6 Aroclor-1254 {5}	14.18	14.24	1379087	464436	2388.5	2366.5
Sum Aroclor-1254			7096295	2295384	13988.6	14091.5
Average Aroclor-1254					2797.714	2818.305
17) L7 Aroclor-1260	12.94	13.32	1394621	306748	3616.2	1349.7 #
18) L7 Aroclor-1260 {2}	13.57	14.07	679636	201080	1158.5m	1355.7
19) L7 Aroclor-1260 {3}	14.84	15.03	373825	73666	996.4	377.8 #
20) L7 Aroclor-1260 {4}	15.40	16.42	501424	116194	593.9	581.2
21) L7 Aroclor-1260 {5}	16.22	17.75	391055	99254	608.3	704.3
Sum Aroclor-1260			3340562	796943	38612.0	24190.3
Average Aroclor-1260					1394.665	873.753

(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\3\DATA\09_18_01\3_091847.D
Date Acquired: 19 Sep 2001 19:31
Inst: HP_03 Operator ID: BTB
Name: 47348.01DL *E03C9DL *
Misc: *EPA*30.1G/5.0ML*40
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 9:12 2001 Quant Results File: XPCBI16.RES



OK 9-21-01

Aroclor-1242 {4} 11.17min area: 1411896 m

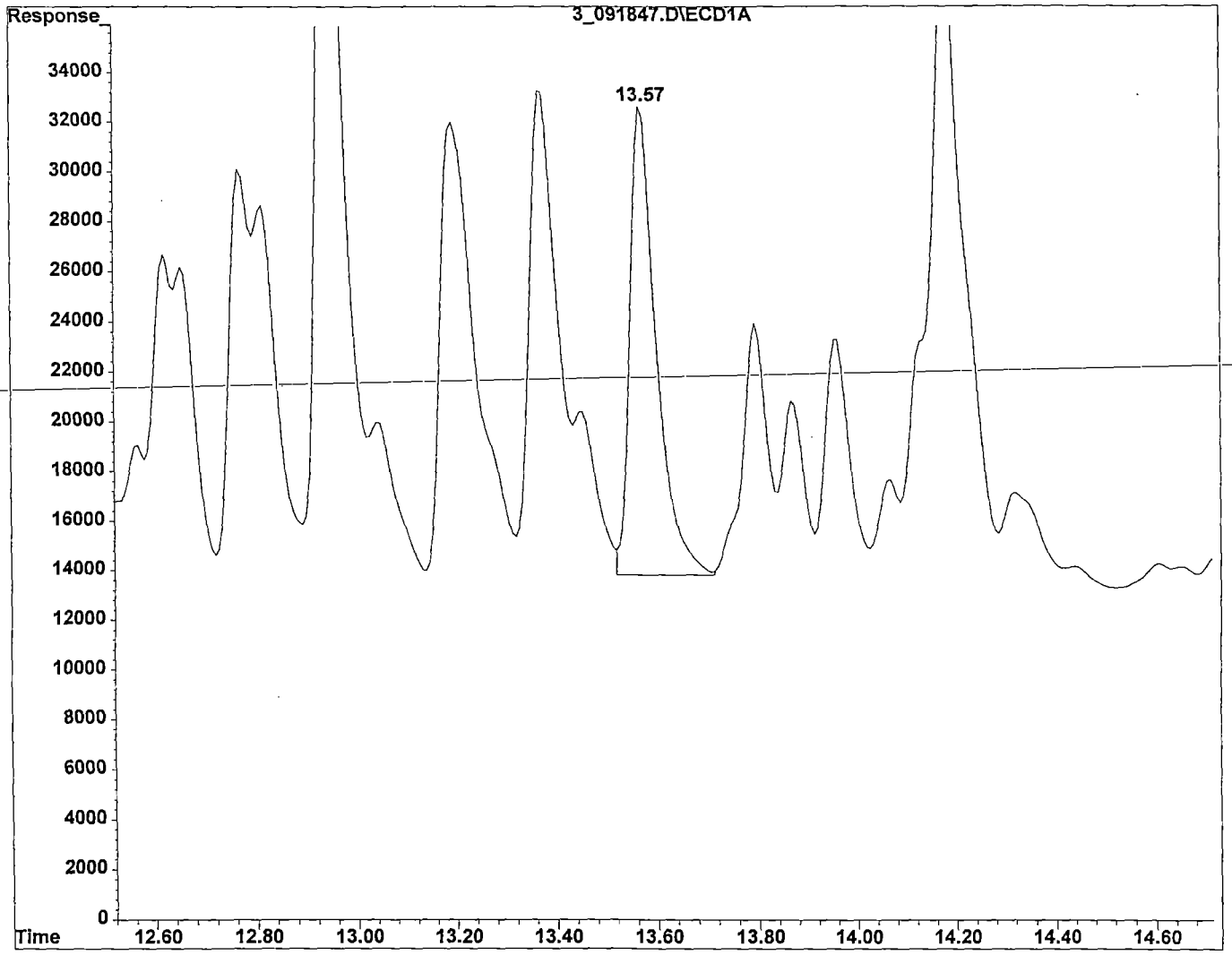
Integration Time Range: 11.10 - 11.29

BTB 09/20/01

F:\HPCHEM\HP\3\DATA\09_18_01\3_091847.D
Report generated: Thu Sep 20 09:47:47 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_18_01\3_091847.D
Date Acquired: 19 Sep 2001 19:31
Inst: HP_03 Operator ID: BTB
Name: 47348.01DL *E03C9DL *
Misc: *EPA*30.1G/5.0ML*40
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 9:12 2001 Quant Results File: XPCBI16.RES



ok 9-21-01

Aroclor-1260 {2} 13.57min area: 679636 m

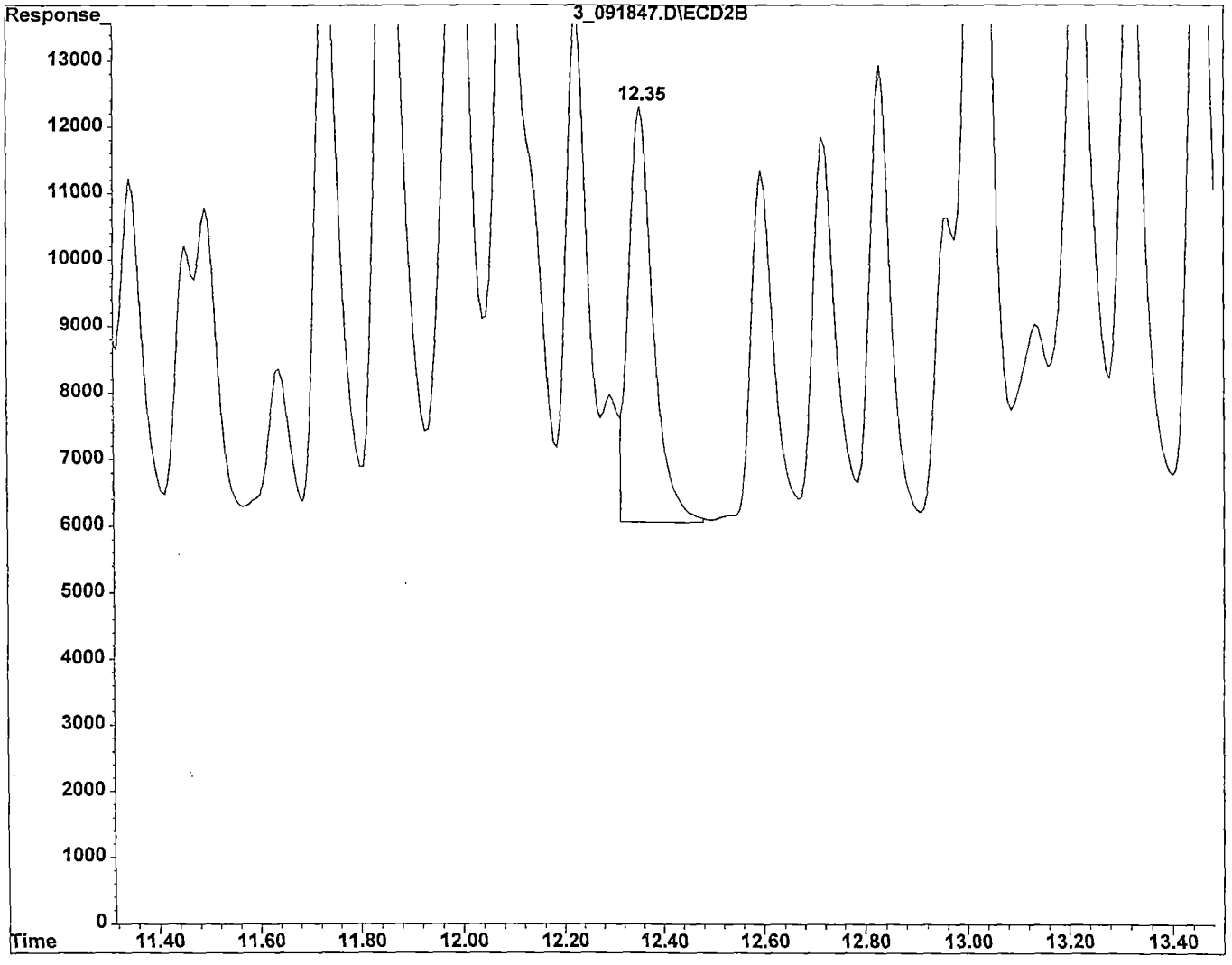
Integration Time Range: 13.52 - 13.71

BTB 09/2001

F:\HPCHEM\HP\3\DATA\09_18_01\3_091847.D
Report generated: Thu Sep 20 09:47:48 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_18_01\3_091847.D
Date Acquired: 19 Sep 2001 19:31
Inst: HP_03 Operator ID: BTB
Name: 47348.01DL *E03C9DL *
Misc: *EPA*30.1G/5.0ML*40
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 9:12 2001 Quant Results File: XPCBI16.RES



Aroclor-1242 {5} #2 12.35min area: 211216 m

Integration Time Range: 12.31 - 12.48

OK 9-21-01 BTB 092001

F:\HPCHEM\HP\3\DATA\09_18_01\3_091847.D
Report generated: Thu Sep 20 09:47:49 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E03D0

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Matrix: (soil/water) SOIL Lab Sample ID: 47348.04

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

% Moisture: 48 decanted: (Y/N) __ Date Received: 08/20/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/23/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/18/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	63	UJ
11104-28-2	Aroclor-1221	63	UJ
11141-16-5	Aroclor-1232	63	UJ
53469-21-9	Aroclor-1242	~~2700~~ 4900	~~EP~~ DJ
12672-29-6	Aroclor-1248	63	UJ
11097-69-1	Aroclor-1254	~~2800~~ 5200	~~E~~ DJ
11096-82-5	Aroclor-1260	~~840~~ 1400	~~EP~~ DJ
Surrogate amount spiked		12.78	

11500

TBS
10-11-01
apply this results

FORM I PCB

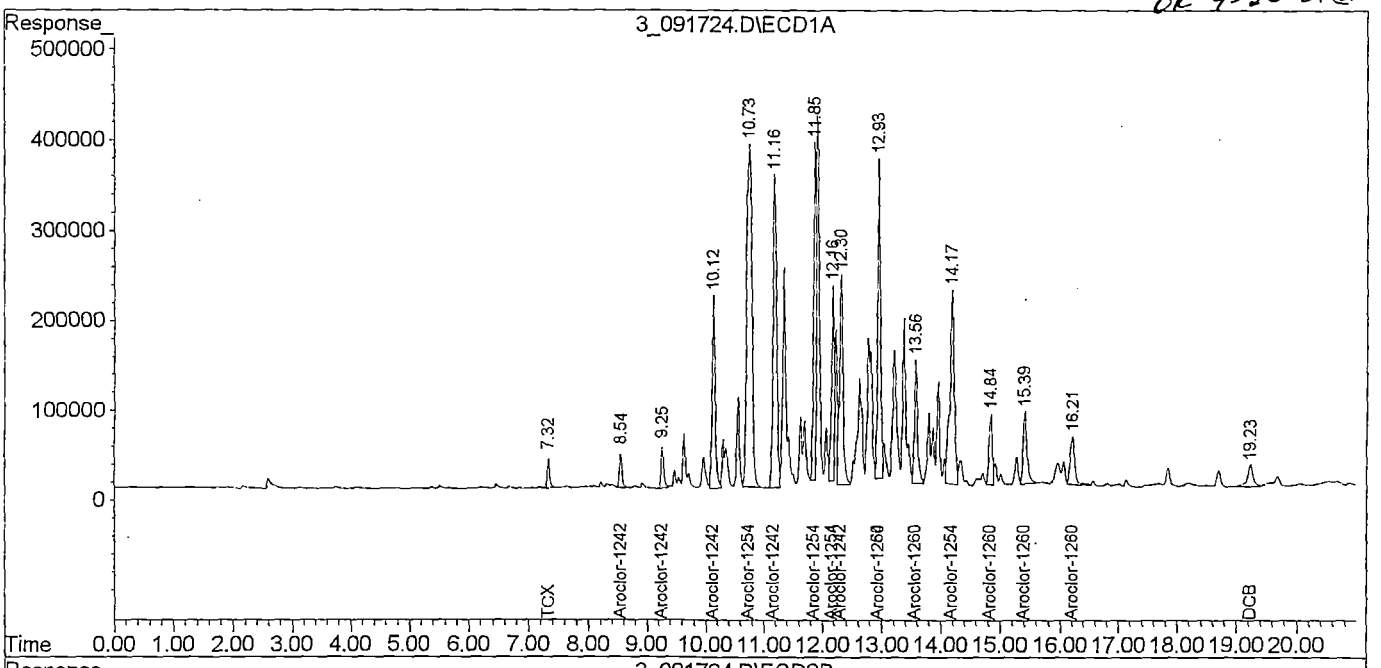
Chromatographic Report

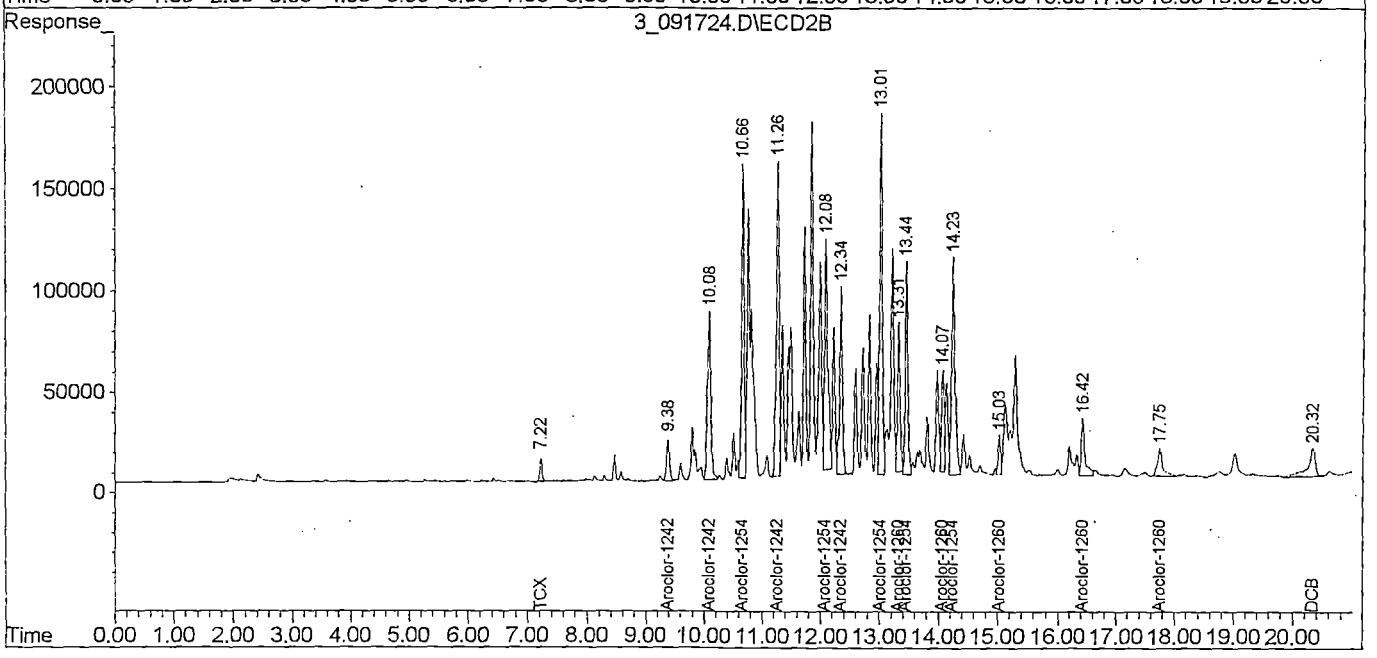
Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091724.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091724.D\ECD2B.CH
Acq On : 18 Sep 2001 2:52 Operator: BTB
Sample : 47348.04 *E03D0 * Inst : HP_03
Misc : *EPA*30.1G/5.0ML*48 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 24 15:48 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

OK 9-25-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091724.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091724.D\ECD2B.CH
Acq On : 18 Sep 2001 2:52 Operator: BTB
Sample : 47348.04 *E03D0 * Inst : HP_03
Misc : *EPA*30.1G/5.0ML*48 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 24 15:48 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.33	7.22	957723	306629	11.3	12.1	
	Spiked Amount 12.778			Recovery	=	88.43%	94.69%	
22)	S DCB	19.23	20.32	1620275	1226925	18.4	32.0	#
	Spiked Amount 12.778			Recovery	=	144.00%	250.43%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.54	0.00	1244457	0	702.8	N.D. d	#
8)	L4 Aroclor-1242 {2}	9.26	9.38	1472444	698082	476.9	649.5	#
9)	L4 Aroclor-1242 {3}	10.12	10.08	7856074	3332785	1379.5 E	1610.1 E	
10)	L4 Aroclor-1242 {4}	11.16	11.26	15471304	4943935	6190.0mE	7299.8 E	
11)	L4 Aroclor-1242 {5}	12.30	12.34	9493296	3040860	4873.4mE	5057.7mE	
	Sum Aroclor-1242			35537575	12015662	13622.7	14617.1	
	Average Aroclor-1242					2724.533	3654.276	
12)	L6 Aroclor-1254	10.73	10.66	23743960	4612183	7500.0mE	6046.6 E	
13)	L6 Aroclor-1254 {2}	11.85	12.08	9054686	4330619	1544.1 E	2521.4 E	#
14)	L6 Aroclor-1254 {3}	12.16	13.01	6080202	5520995	1133.9 E	2398.6 E	#
15)	L6 Aroclor-1254 {4}	12.94	13.44	11401058	3157160	1845.3 E	2484.6 E	#
16)	L6 Aroclor-1254 {5}	14.17	14.24	10749032	4328778	2148.1 E	2545.0 E	
	Sum Aroclor-1254			61028937	21949735	14171.4	15996.2	
	Average Aroclor-1254					2834.271	3199.231	
17)	L7 Aroclor-1260	12.94	13.31	11401058	2244332	3411.0 E	1139.5mE	#
18)	L7 Aroclor-1260 {2}	13.56	14.07	4884824	1606352	960.8mE	1249.7mE	#
19)	L7 Aroclor-1260 {3}	14.84	15.03	3069119	594027	943.9 E	351.5	#
20)	L7 Aroclor-1260 {4}	15.40	16.42	3555569	1301129	485.9	751.0	#
21)	L7 Aroclor-1260 {5}	16.21	17.75	3081771	892558	553.1	730.7	#
	Sum Aroclor-1260			25992341	6638398	4060.1	2697.7	
	Average Aroclor-1260					1270.959	844.479	

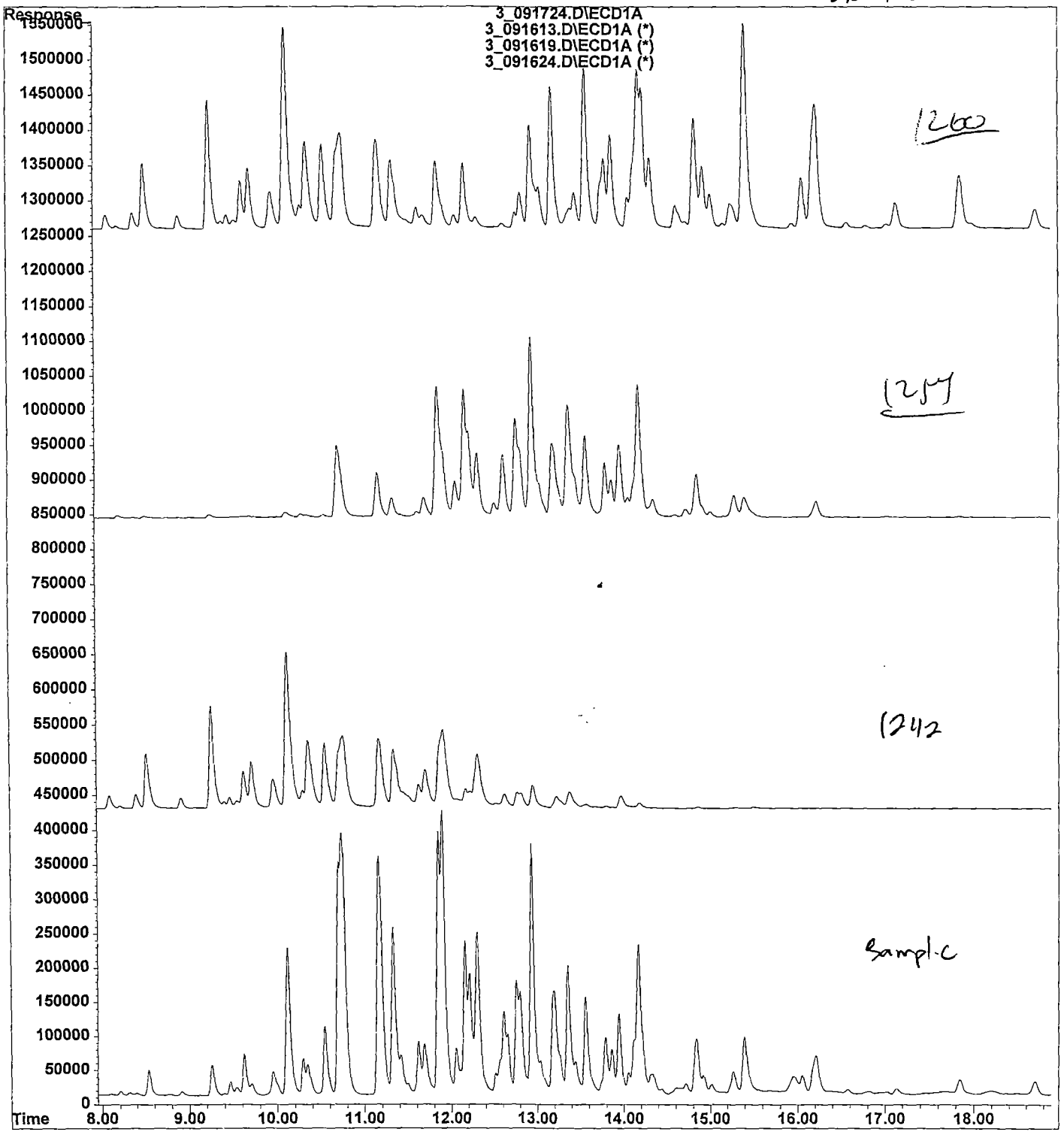
BTB 092401

BTB 092401

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

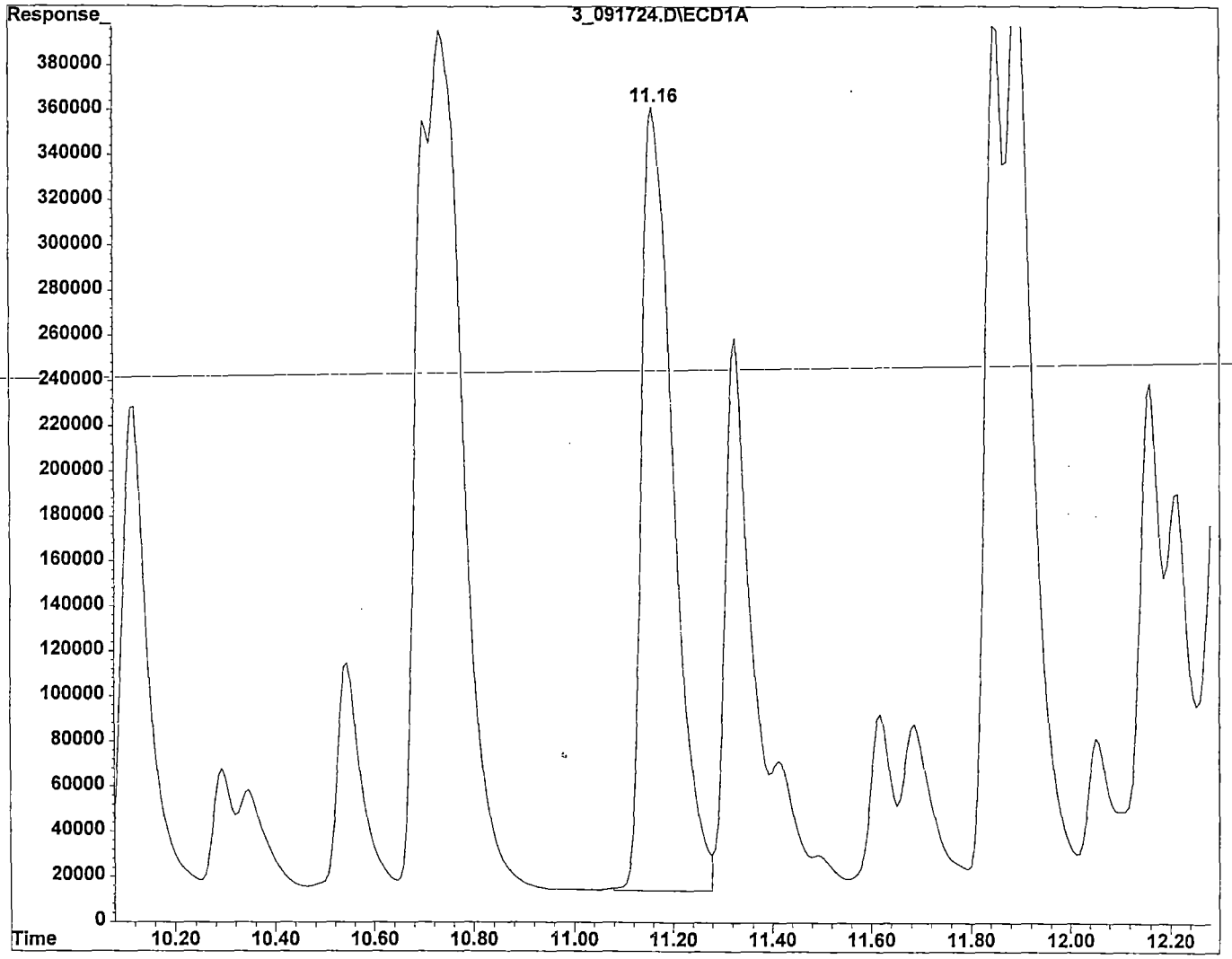
File : F:\HPCHEM\HP\3\DATA\09_17_01\3_091724.D
Operator : BTB
Acquired : 18 Sep 2001 2:52 using AcqMethod OLM03.M
Instrument : HP_03
Sample Name: 47348.04 *E03D0 *
Misc Info : *EPA*30.1G/5.0ML*48
Vial Number: 24

OK 9-21-01



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091724.D
Date Acquired: 18 Sep 2001 2:52
Inst: HP_03 Operator ID: BTB
Name: 47348.04 *E03D0 *
Misc: *EPA*30.1G/5.0ML*48
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:42 2001 Quant Results File: XPCBI16.RES



Aroclor-1242 {4} 11.16min area: 15471304 m

Integration Time Range: 11.08 - 11.28

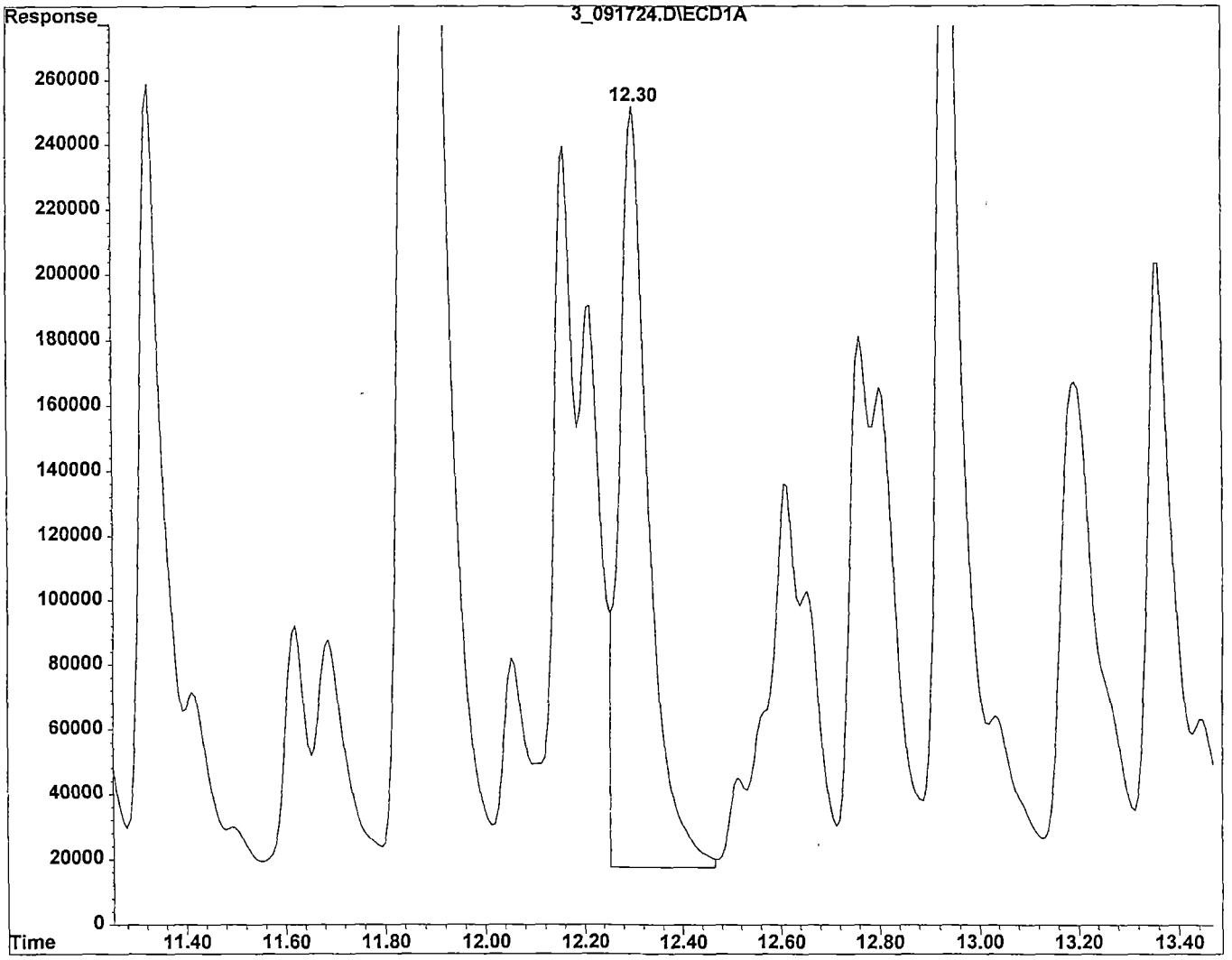
BTB 091901

OK 9-21-01 RB

F:\HPCHEM\HP\3\DATA\09_17_01\3_091724.D
Report generated: Wed Sep 19 11:23:20 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091724.D
Date Acquired: 18 Sep 2001 2:52
Inst: HP_03 Operator ID: BTB
Name: 47348.04 *E03D0 *
Misc: *EPA*30.1G/5.0ML*48
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:42 2001 Quant Results File: XPCBI16.RES



Aroclor-1242 {5} 12.30min area: 9493296 m

ok 9-21-01

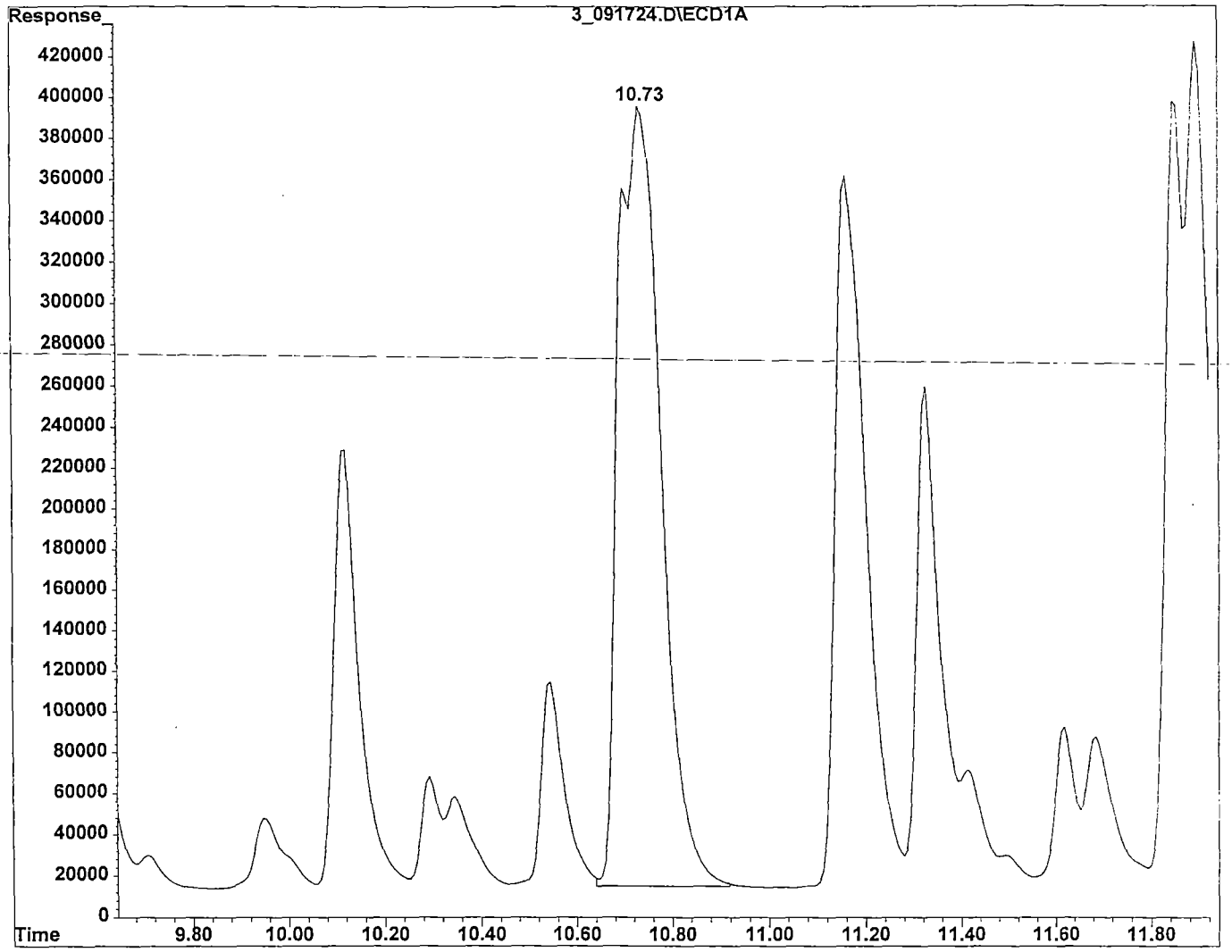
BTB 091901

Integration Time Range: 12.25 - 12.47

F:\HPCHEM\HP\3\DATA\09_17_01\3_091724.D
Report generated: Wed Sep 19 11:23:20 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091724.D
Date Acquired: 18 Sep 2001 2:52
Inst: HP_03 Operator ID: BTB
Name: 47348.04 *E03D0 *
Misc: *EPA*30.1G/5.0ML*48
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 24 15:48 2001 Quant Results File: XPCBI16.RES



OK 9-25-01 BTB

Aroclor-1254 10.73min area: 23743960 m

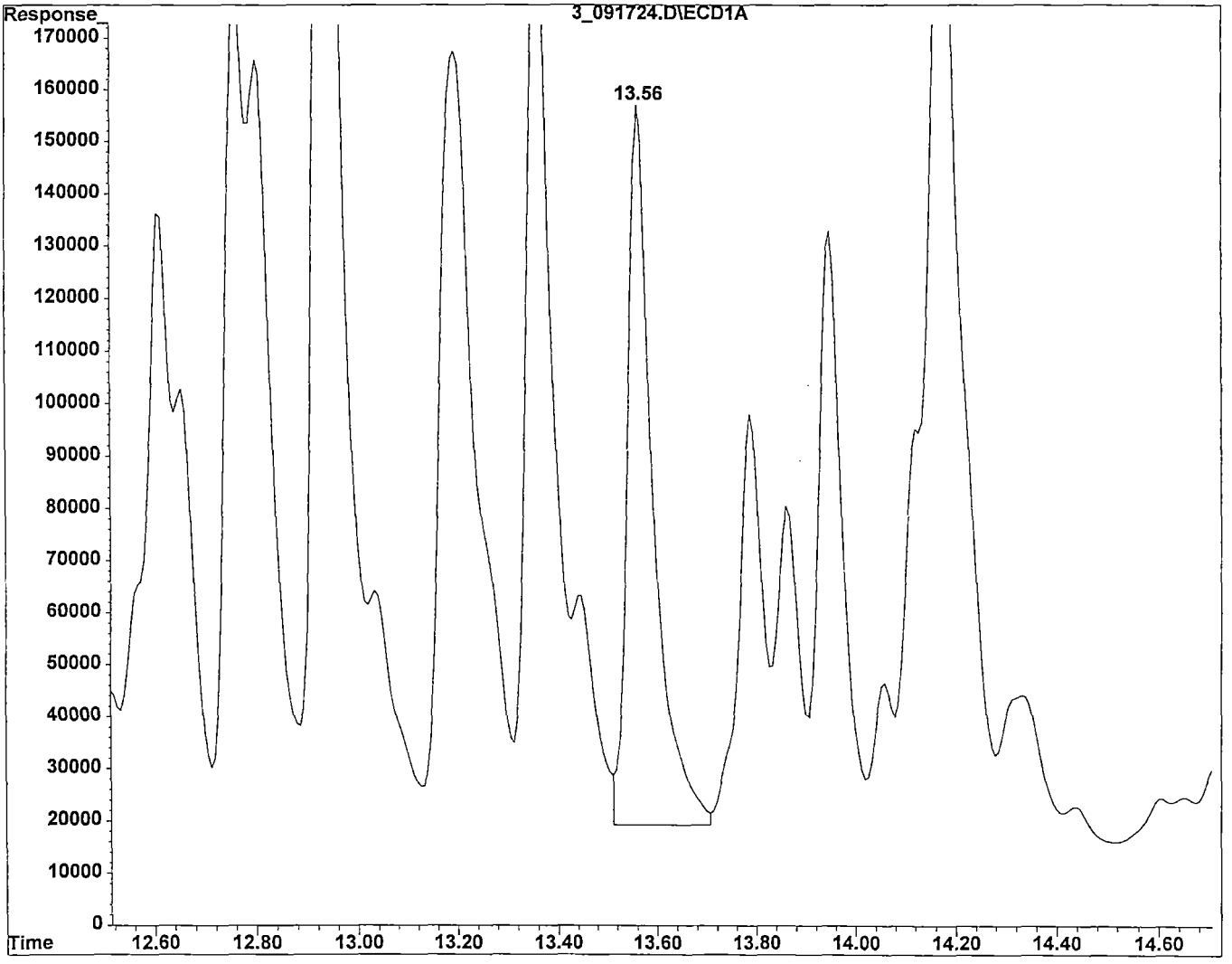
BTB 092401

Integration Time Range: 10.64 - 10.92

F:\HPCHEM\HP\3\DATA\09_17_01\3_091724.D
Report generated: Mon Sep 24 16:12:47 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091724.D
Date Acquired: 18 Sep 2001 2:52
Inst: HP_03 Operator ID: BTB
Name: 47348.04 *E03D0 *
Misc: *EPA*30.1G/5.0ML*48
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:42 2001 Quant Results File: XPCBI16.RES



Aroclor-1260 {2} 13.56min area: 4884824 m

Integration Time Range: 13.51 - 13.70

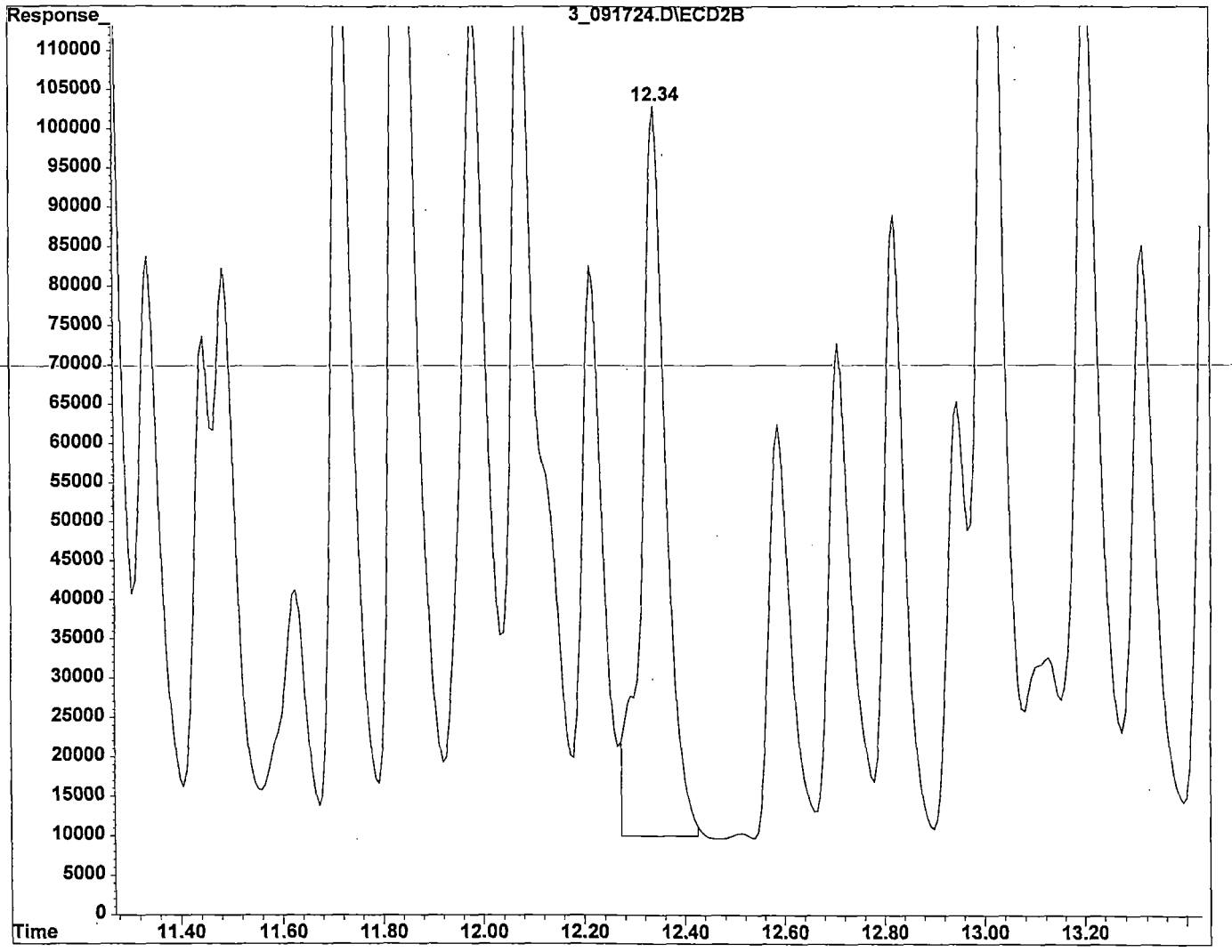
ok 9-21-01

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091724.D
Report generated: Wed Sep 19 11:23:21 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091724.D
Date Acquired: 18 Sep 2001 2:52
Inst: HP_03 Operator ID: BTB
Name: 47348.04 *E03D0 *
Misc: *EPA*30.1G/5.0ML*48
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:42 2001 Quant Results File: XPCBI16.RES



Aroclor-1242 {5} #2 12.34min area: 3040860 m

Integration Time Range: 12.27 - 12.43

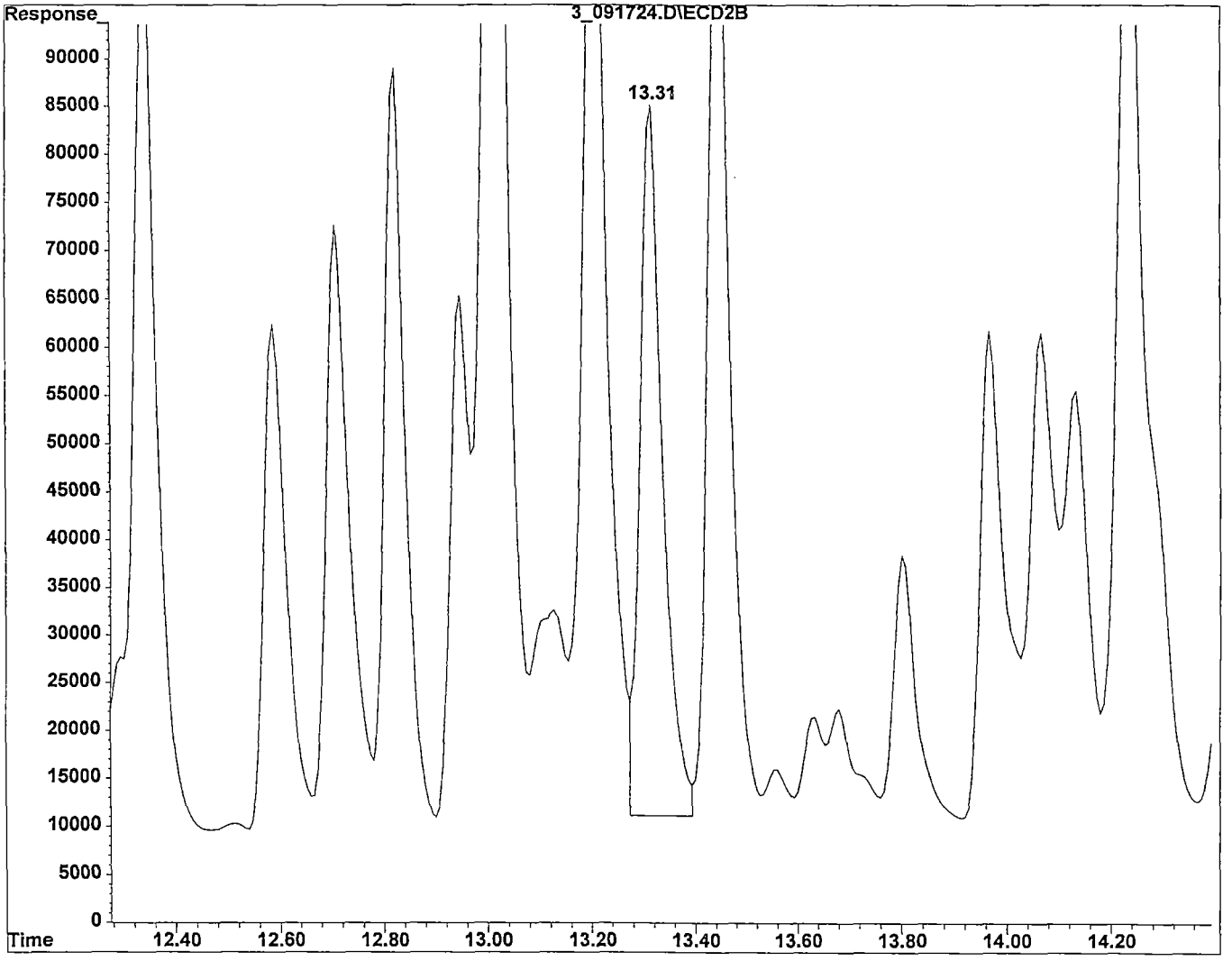
OK 9-21-01

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091724.D
Report generated: Wed Sep 19 11:23:21 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091724.D
Date Acquired: 18 Sep 2001 2:52
Inst: HP_03 Operator ID: BTB
Name: 47348.04 *E03D0 *
Misc: *EPA*30.1G/5.0ML*48
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:42 2001 Quant Results File: XPCBI16.RES



Aroclor-1260 #2 13.31min area: 2244332 m

Integration Time Range: 13.27 - 13.39

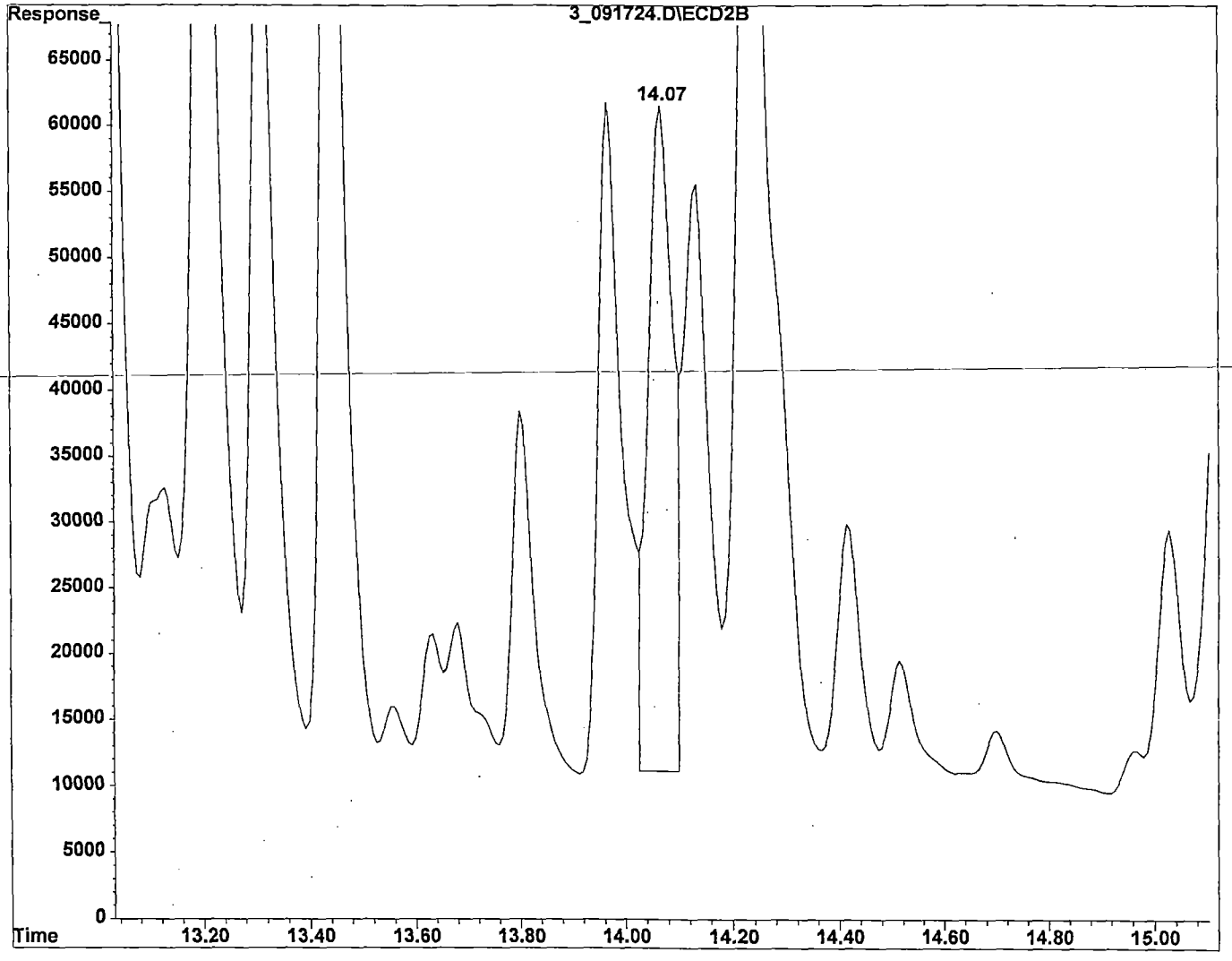
BTB 091901

OK 9-21-01

F:\HPCHEM\HP\3\DATA\09_17_01\3_091724.D
Report generated: Wed Sep 19 11:23:22 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091724.D
Date Acquired: 18 Sep 2001 2:52
Inst: HP_03 Operator ID: BTB
Name: 47348.04 *E03D0 *
Misc: *EPA*30.1G/5.0ML*48
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:42 2001 Quant Results File: XPCBI16.RES



ok 9-21-01

Aroclor-1260 {2} #2 14.07min area: 1606352 m

Integration Time Range: 14.03 - 14.10

BTB
091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091724.D
Report generated: Wed Sep 19 11:23:22 2001

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E03D0DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Matrix: (soil/water) SOIL Lab Sample ID: 47348.04DL

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

% Moisture: 48 decanted: (Y/N) __ Date Received: 08/20/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/23/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/19/01

Injection Volume: 0.5(uL) Dilution Factor: 20.0

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	1300	UJ
11104-28-2	Aroclor-1221	1300	UJ
11141-16-5	Aroclor-1232	1300	UJ
53469-21-9	Aroclor-1242	4900	DJ
12672-29-6	Aroclor-1248	1300	UJ
11097-69-1	Aroclor-1254	5200	DJ
11096-82-5	Aroclor-1260	1400	DPJ
Surrogate amount spiked		12.78	

TBS
10-11-01

FORM I PCB

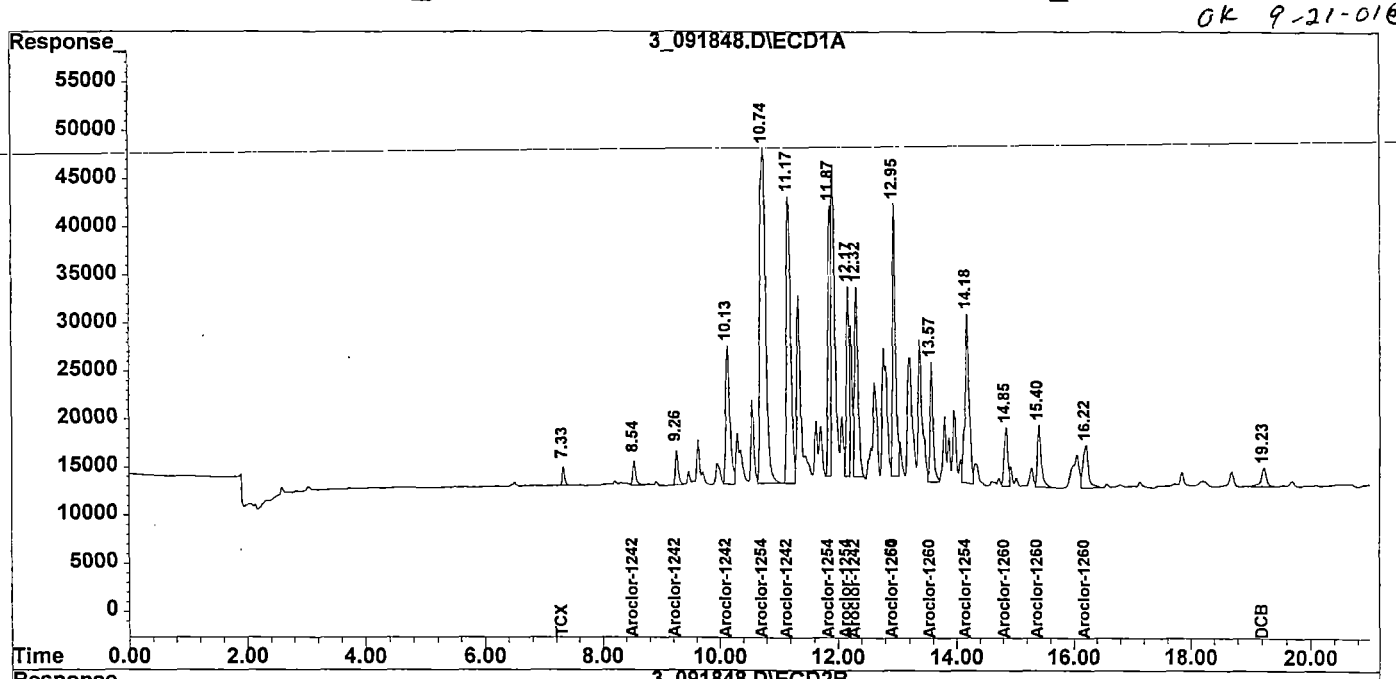
Chromatographic Report

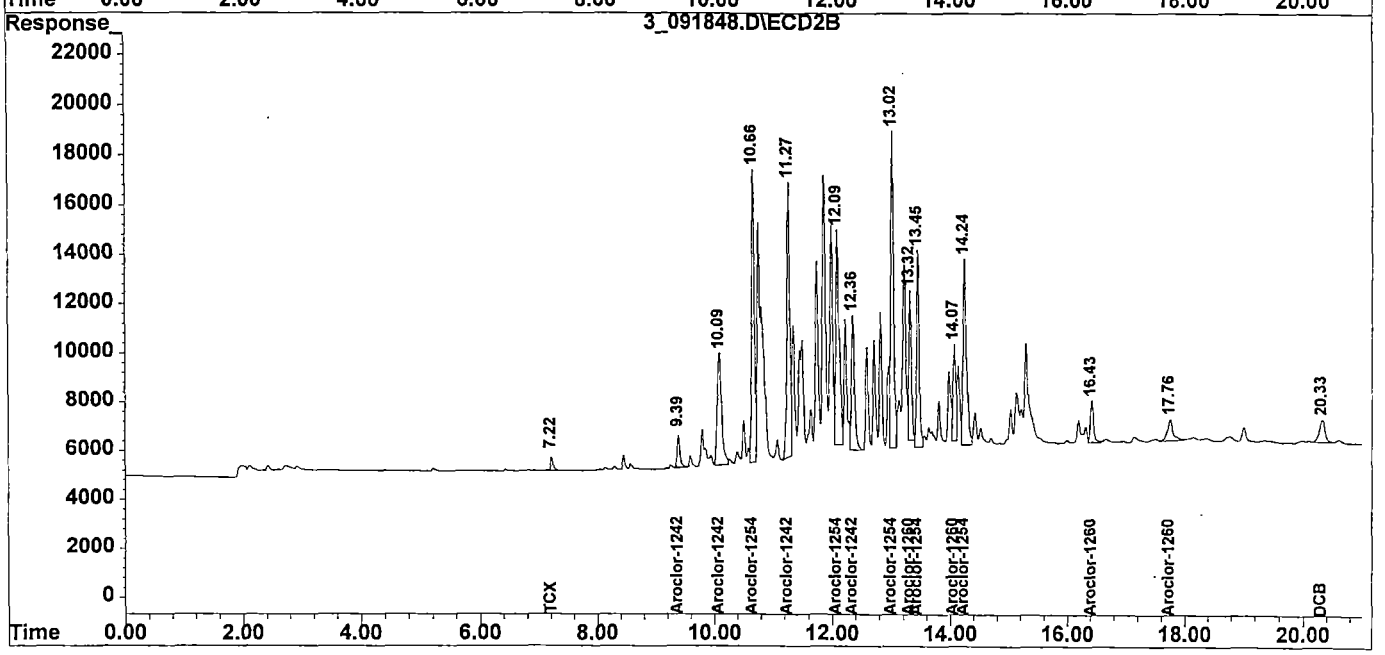
Signal #1 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091848.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091848.D\ECD2B.CH
Acq On : 19 Sep 2001 19:57 Operator: BTB
Sample : 47348.04DL *E03D0DL * Inst : HP_03
Misc : *EPA*30.1G/5.0ML*48 Dilution: 20.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 9:15 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

OK 9-21-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091848.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091848.D\ECD2B.CH
Acq On : 19 Sep 2001 19:57 Operator: BTB
Sample : 47348.04DL *E03D0DL * Inst : HP_03
Misc : *EPA*30.1G/5.0ML*48 Dilution: 20.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 9:15 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

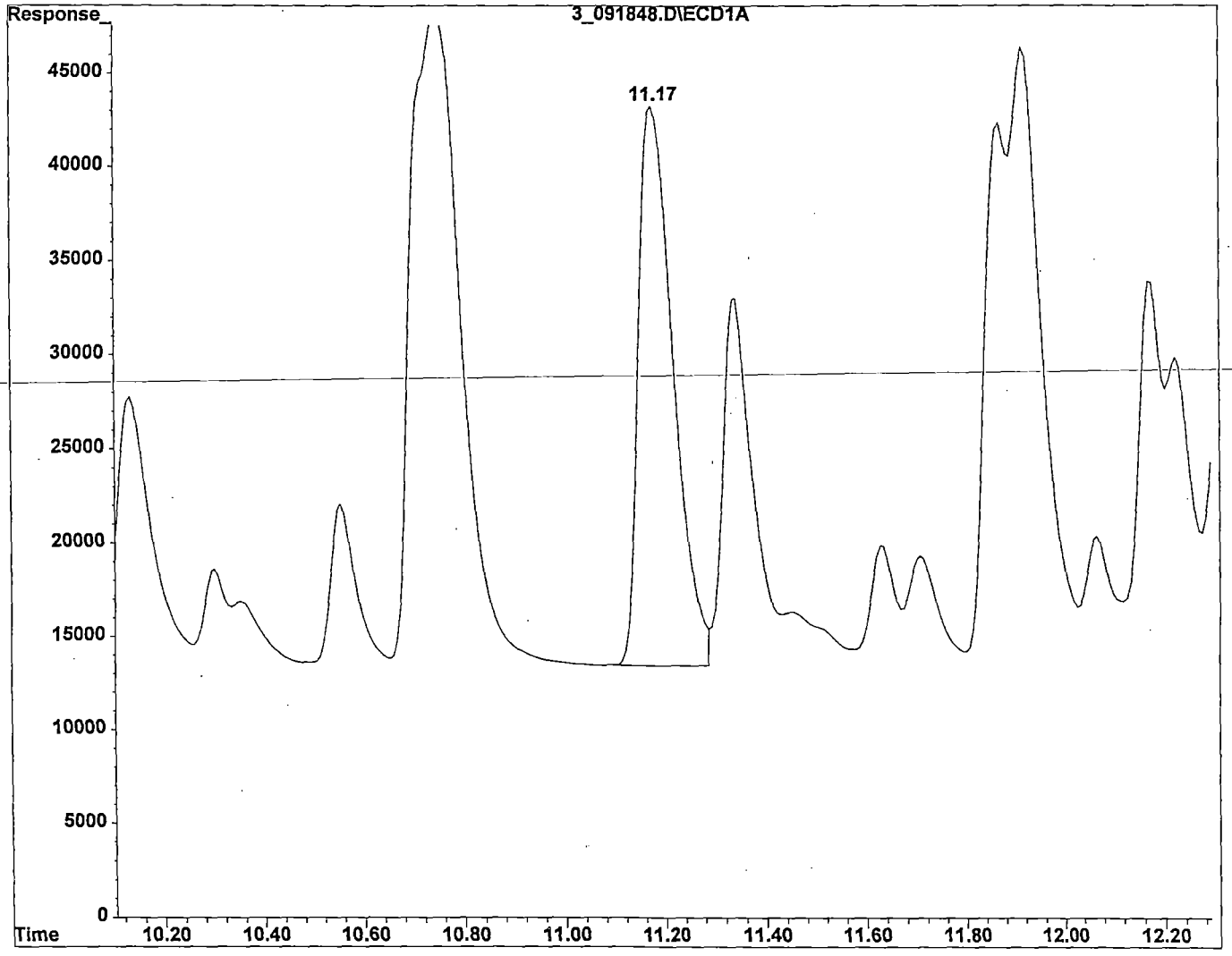
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	57612	14802	13.6	11.7
	Spiked Amount 12.778			Recovery	=	106.43%	91.56%
22)	S DCB	19.23	20.33	131318	57554	29.8m BB 09/20/01	30.0m BB 09/20/01
	Spiked Amount 12.778			Recovery	=	233.21%	234.78%
	Target Compounds:						
7)	L4 Aroclor-1242	8.54	0.00	90157	0	1018.3	N.D. d #
8)	L4 Aroclor-1242 {2}	9.26	9.39	122299	46039	792.3	856.7
9)	L4 Aroclor-1242 {3}	10.14	10.09	701679	237520	2464.3	2294.9
10)	L4 Aroclor-1242 {4}	11.17	11.27	1454100	370044	11635.6m	10927.5
11)	L4 Aroclor-1242 {5}	12.32	12.36	825039	202740	8470.8	6744.2m
	Sum Aroclor-1242			3193275	856343	24381.2	20823.3
	Average Aroclor-1242					4876.238	5205.828
12)	L6 Aroclor-1254	10.75	10.67	2401199	385126	15169.3	10098.0 #
13)	L6 Aroclor-1254 {2}	11.87	12.09	811011	361260	2766.0	4206.7m #
14)	L6 Aroclor-1254 {3}	12.17	13.02	608221	444190	2268.6	3859.5 #
15)	L6 Aroclor-1254 {4}	12.95	13.46	998006	249935	3230.6	3933.9
16)	L6 Aroclor-1254 {5}	14.18	14.25	881725	321561	3524.1	3781.1
	Sum Aroclor-1254			5700162	1762072	26958.6	25879.2
	Average Aroclor-1254					5391.710	5175.834
17)	L7 Aroclor-1260	12.95	13.32	998006	179504	5971.8	1822.7m #
18)	L7 Aroclor-1260 {2}	13.57	14.07	458336	132932	1803.0m	2068.3m
19)	L7 Aroclor-1260 {3}	14.85	0.00	243115	0	1495.4	N.D. d #
20)	L7 Aroclor-1260 {4}	15.41	16.43	285229	65276	779.6	753.5
21)	L7 Aroclor-1260 {5}	16.22	17.76	292673	59110	1050.6	967.9
	Sum Aroclor-1260			2277359	436822	141840.2	71714.8
	Average Aroclor-1260					2220.083	1403.101

(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\3\DATA\09_18_01\3_091848.D
Date Acquired: 19 Sep 2001 19:57
Inst: HP_03 Operator ID: BTB
Name: 47348.04DL *E03D0DL *
Misc: *EPA*30.1G/5.0ML*48
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 9:15 2001 Quant Results File: XPCBI16.RES



ok 9-25-01

Aroclor-1242 {4} 11.17min area: 1454100 m

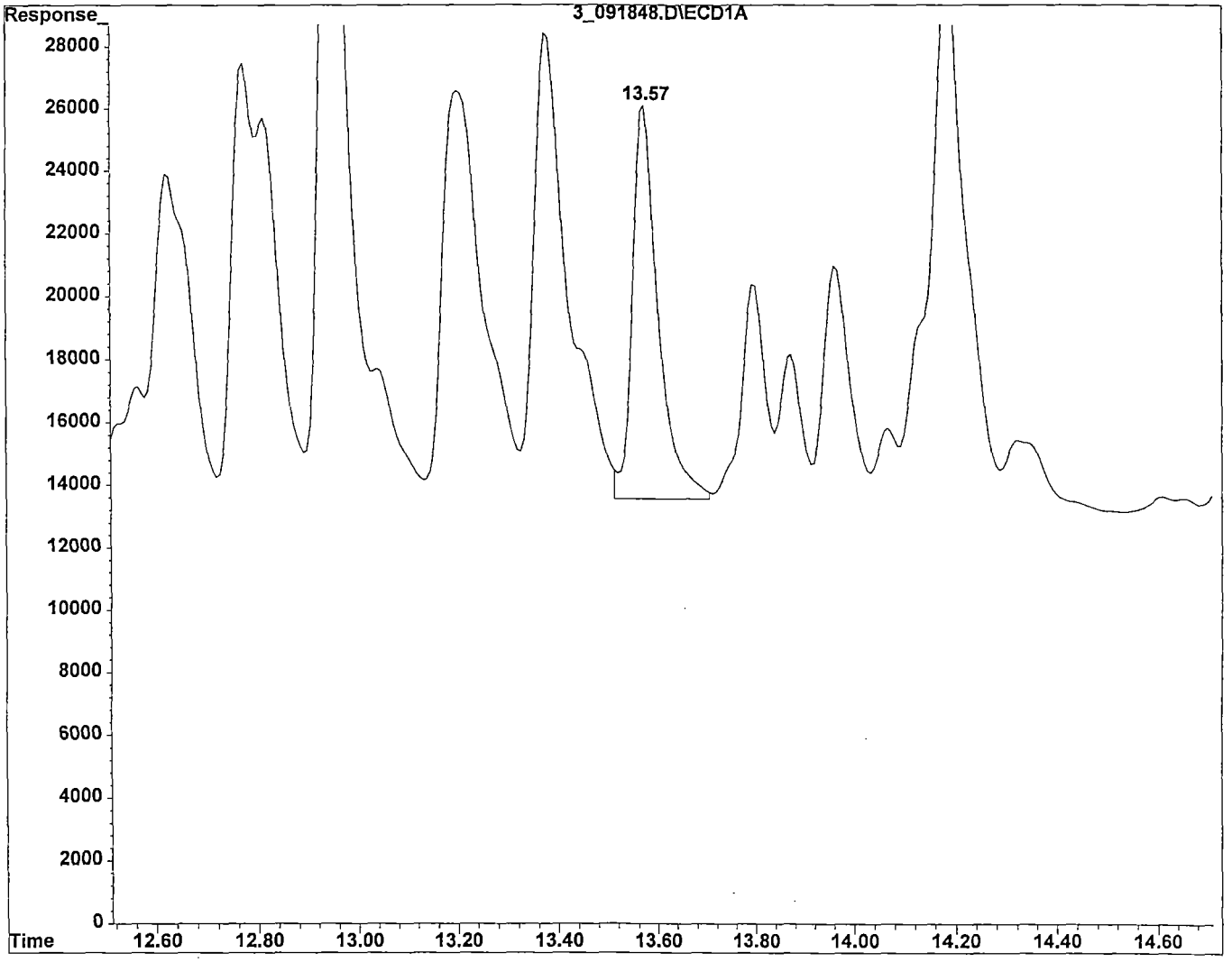
Integration Time Range: 11.10 - 11.29

BTB 091001

F:\HPCHEM\HP\3\DATA\09_18_01\3_091848.D
Report generated: Thu Sep 20 09:47:51 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_18_01\3_091848.D
Date Acquired: 19 Sep 2001 19:57
Inst: HP_03 Operator ID: BTB
Name: 47348.04DL *E03D0DL *
Misc: *EPA*30.1G/5.0ML*48
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 9:15 2001 Quant Results File: XPCBI16.RES



ok 9-25-01 GP

Aroclor-1260 {2} 13.57min area: 458336 m

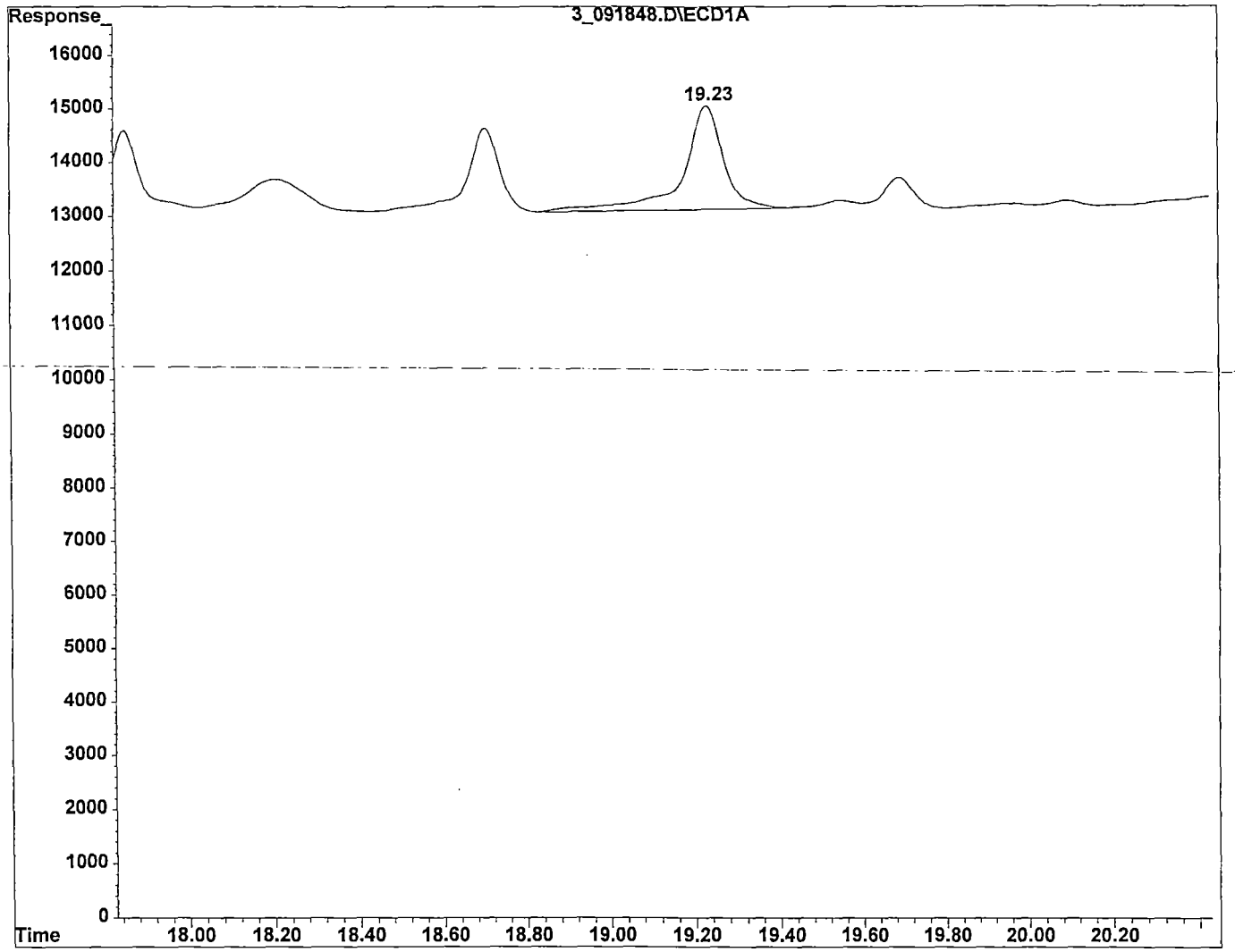
Integration Time Range: 13.51 - 13.71

BTB
092001

F:\HPCHEM\HP\3\DATA\09_18_01\3_091848.D
Report generated: Thu Sep 20 09:47:51 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_18_01\3_091848.D
Date Acquired: 19 Sep 2001 19:57
Inst: HP_03 Operator ID: BTB
Name: 47348.04DL *E03D0DL *
Misc: *EPA*30.1G/5.0ML*48
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 9:15 2001 Quant Results File: XPCBI16.RES



DCB 19.23min area: 131318 m BTB 092001

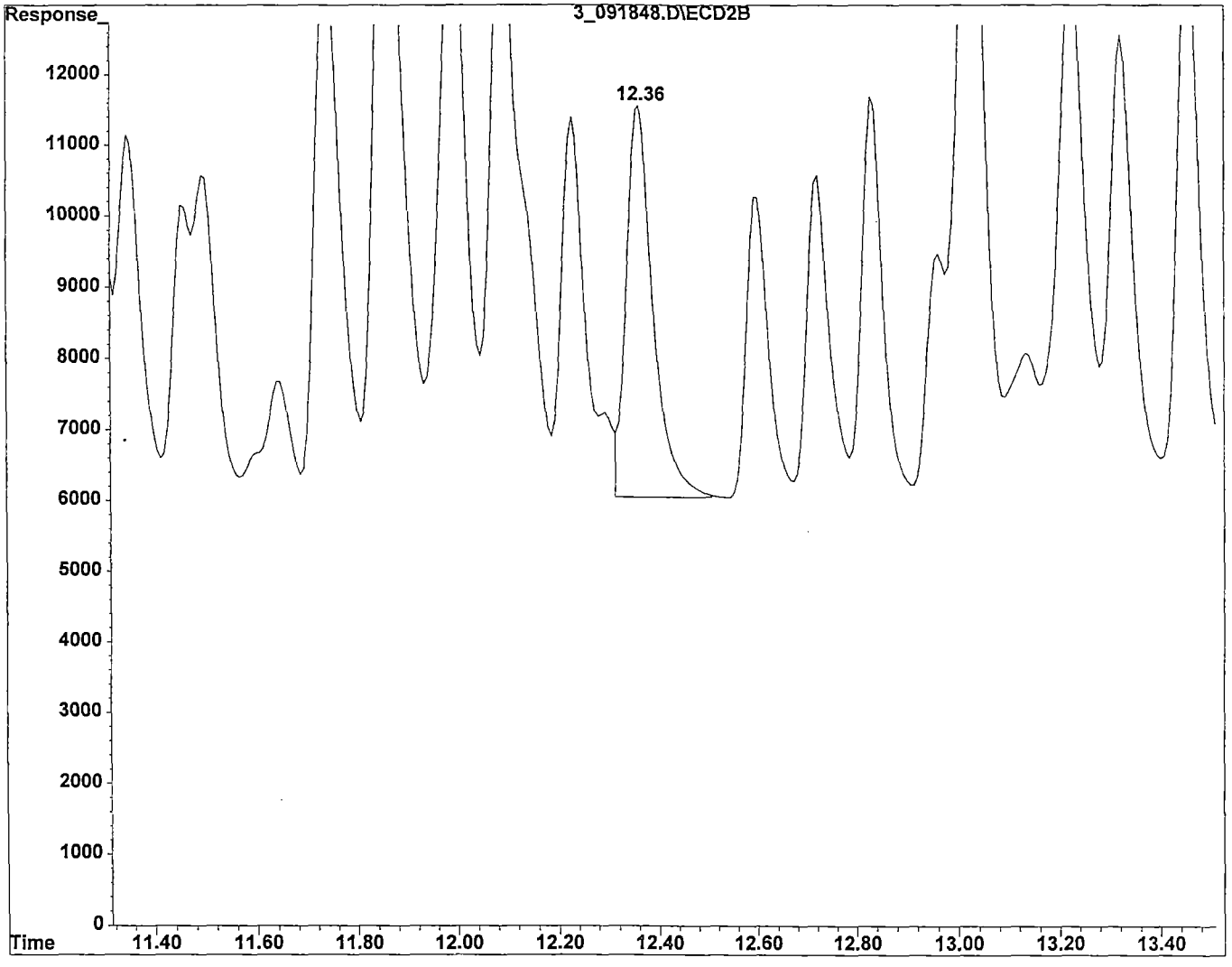
OK 9-25-01

Integration Time Range: 18.83 - 19.43

F:\HPCHEM\HP\3\DATA\09_18_01\3_091848.D
Report generated: Thu Sep 20 09:47:52 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_18_01\3_091848.D
Date Acquired: 19 Sep 2001 19:57
Inst: HP_03 Operator ID: BTB
Name: 47348.04DL *E03D0DL *
Misc: *EPA*30.1G/5.0ML*48
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 9:15 2001 Quant Results File: XPCBI16.RES



ok 9-25-01

Aroclor-1242 {5} #2 12.36min area: 202740 m

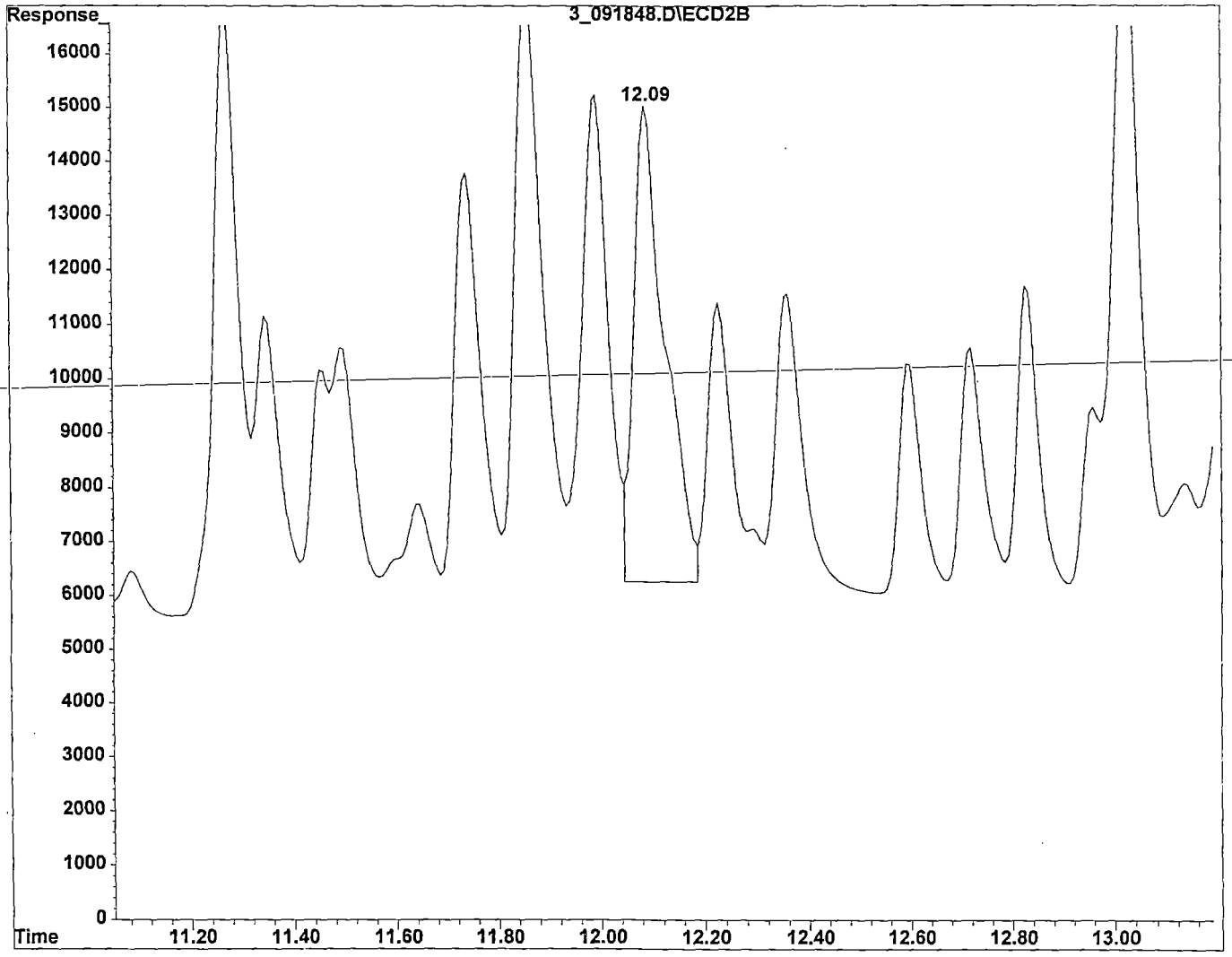
BTB 092001

Integration Time Range: 12.31 - 12.51

F:\HPCHEM\HP\3\DATA\09_18_01\3_091848.D
Report generated: Thu Sep 20 09:47:53 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_18_01\3_091848.D
Date Acquired: 19 Sep 2001 19:57
Inst: HP_03 Operator ID: BTB
Name: 47348.04DL *E03D0DL *
Misc: *EPA*30.1G/5.0ML*48
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 9:15 2001 Quant Results File: XPCBI16.RES



OK 9-25-01

Aroclor-1254 {2} #2 12.09min area: 361260 m

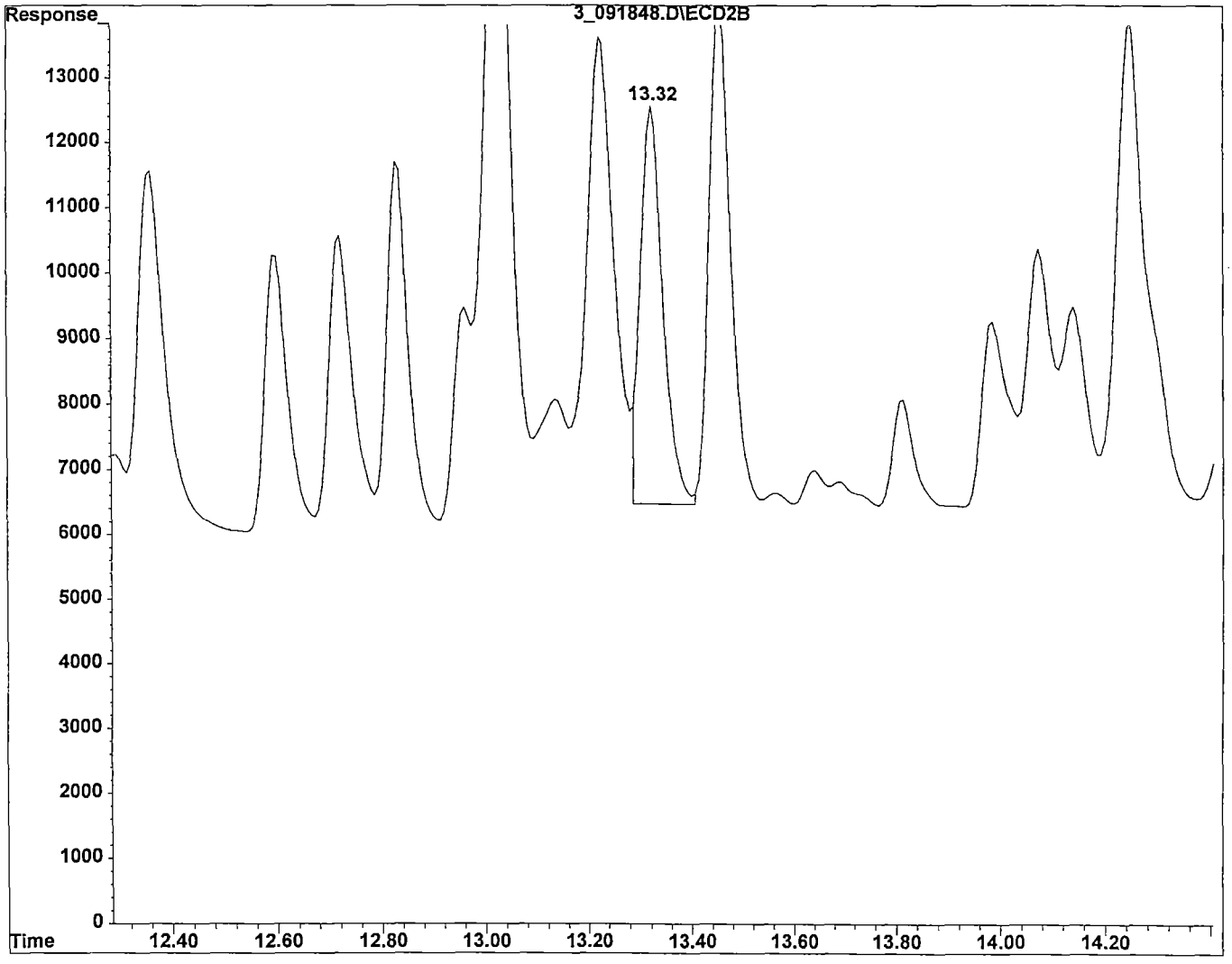
Integration Time Range: 12.05 - 12.19

BTB 092001

F:\HPCHEM\HP\3\DATA\09_18_01\3_091848.D
Report generated: Thu Sep 20 09:47:54 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_18_01\3_091848.D
Date Acquired: 19 Sep 2001 19:57
Inst: HP_03 Operator ID: BTB
Name: 47348.04DL *E03D0DL *
Misc: *EPA*30.1G/5.0ML*48
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 9:15 2001 Quant Results File: XPCBI16.RES



Aroclor-1260 #2 13.32min area: 179504 m

Integration Time Range: 13.28 - 13.40

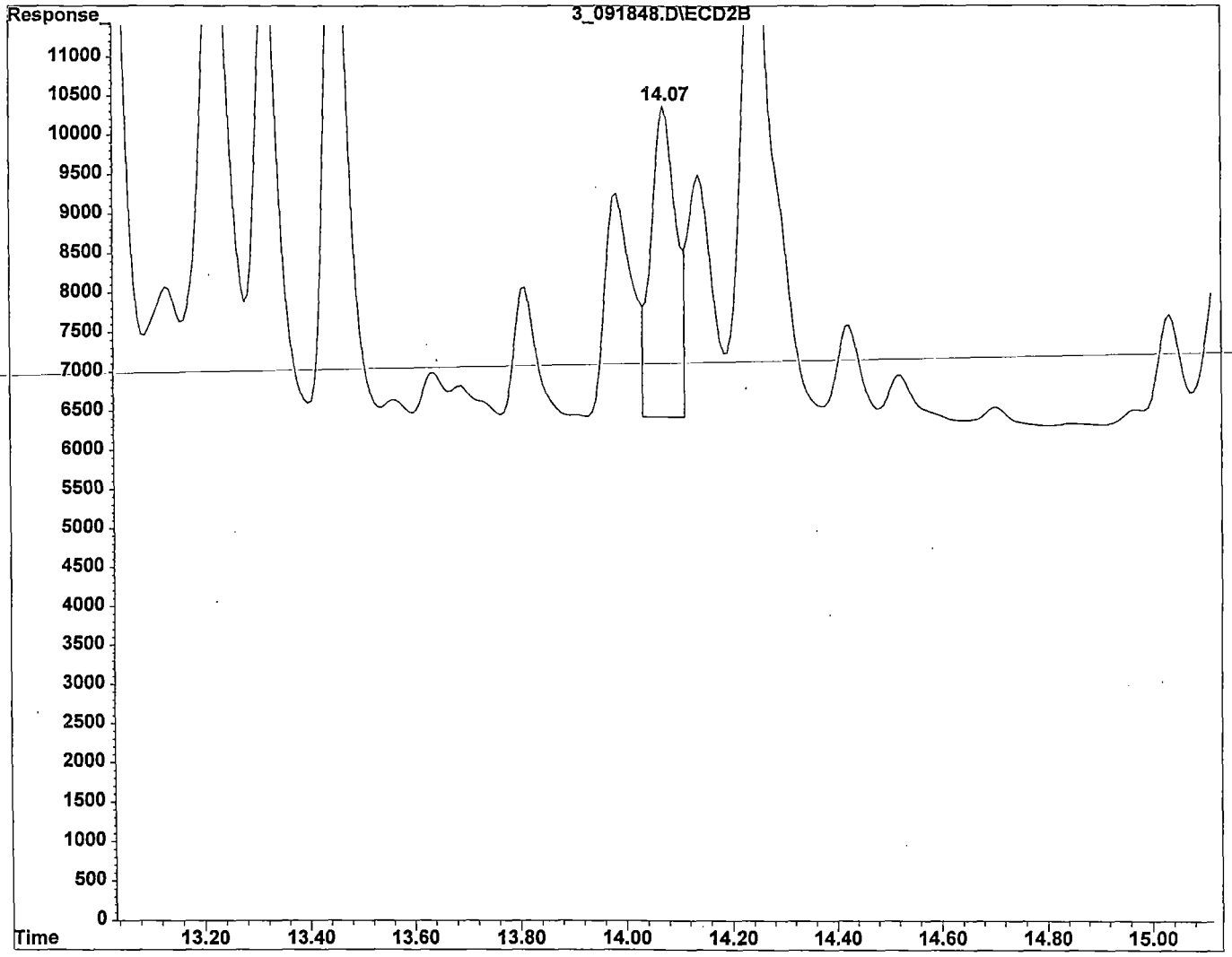
OK 9-25-01

BTB 092001

F:\HPCHEM\HP\3\DATA\09_18_01\3_091848.D
Report generated: Thu Sep 20 09:47:54 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_18_01\3_091848.D
Date Acquired: 19 Sep 2001 19:57
Inst: HP_03 Operator ID: BTB
Name: 47348.04DL *E03D0DL *
Misc: *EPA*30.1G/5.0ML*48
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 9:15 2001 Quant Results File: XPCBI16.RES



Aroclor-1260 {2} #2 14.07min area: 132932 m

Integration Time Range: 14.03 - 14.11

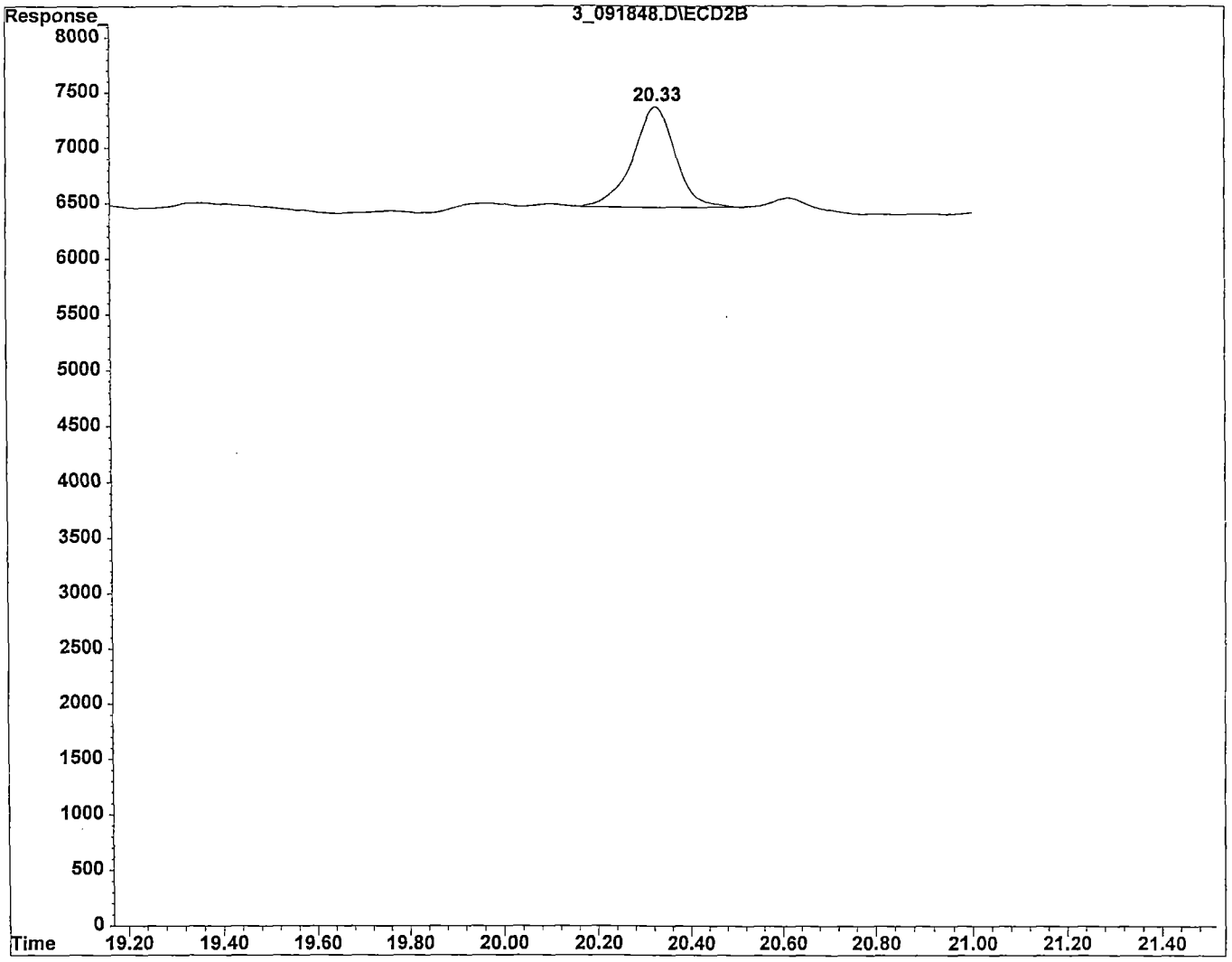
ok 9-25-01

BTB
092001

F:\HPCHEM\HP\3\DATA\09_18_01\3_091848.D
Report generated: Thu Sep 20 09:47:55 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_18_01\3_091848.D
Date Acquired: 19 Sep 2001 19:57
Inst: HP_03 Operator ID: BTB
Name: 47348.04DL *E03D0DL *
Misc: *EPA*30.1G/5.0ML*48
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 9:15 2001 Quant Results File: XPCBI16.RES



OK 9-25-01

DCB #2 20.33min area: 57554 m BTB 092001

Integration Time Range: 20.17 - 20.51

F:\HPCHEM\HP\3\DATA\09_18_01\3_091848.D
Report generated: Thu Sep 20 09:47:55 2001

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E03D1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Matrix: (soil/water) SOIL Lab Sample ID: 47348.05

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

% Moisture: 52 decanted: (Y/N) __ Date Received: 08/20/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/23/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/18/01

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	69		UJ
11104-28-2	Aroclor-1221	69		UJ
11141-16-5	Aroclor-1232	69		UJ
53469-21-9	Aroclor-1242	~~900~~	1600	~~E~~DJ
12672-29-6	Aroclor-1248	69		U
11097-69-1	Aroclor-1254	~~1000~~	2000	~~E~~DJ
11096-82-5	Aroclor-1260	460	J	
Surrogate amount spiked		13.84		

4060

apply this results
TBS 10-11-01

FORM I PCB

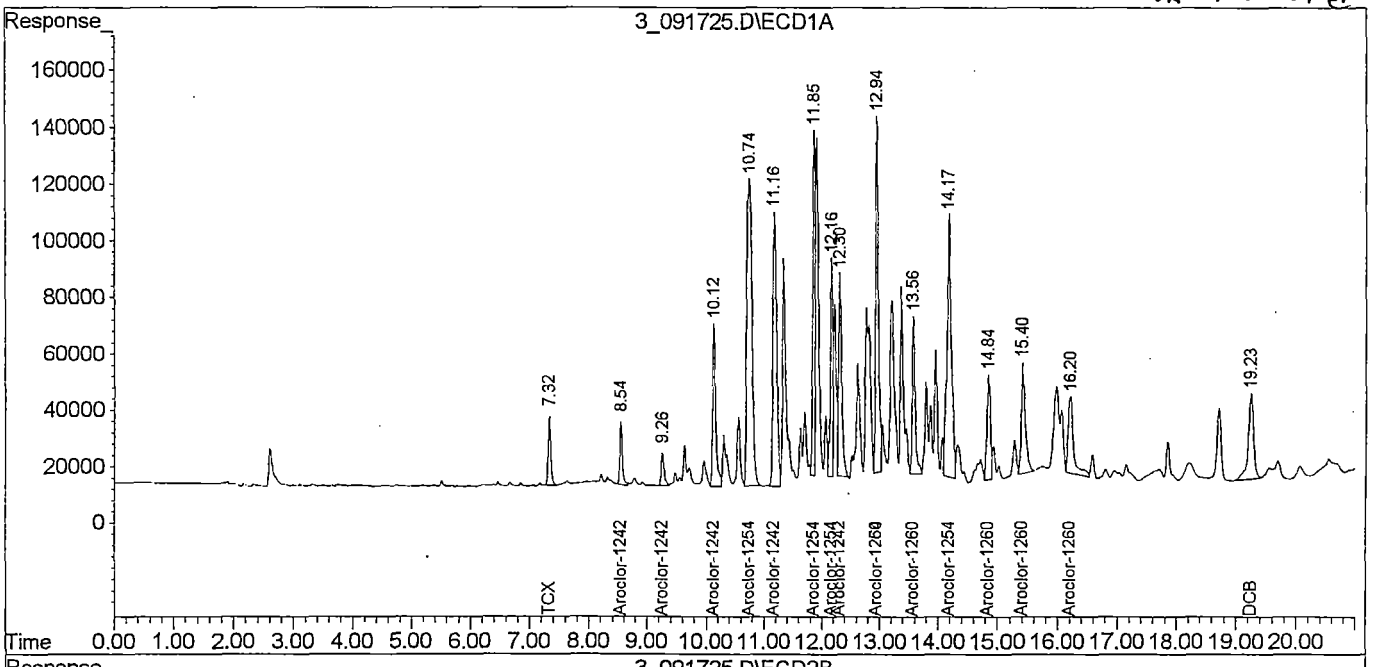
Chromatographic Report

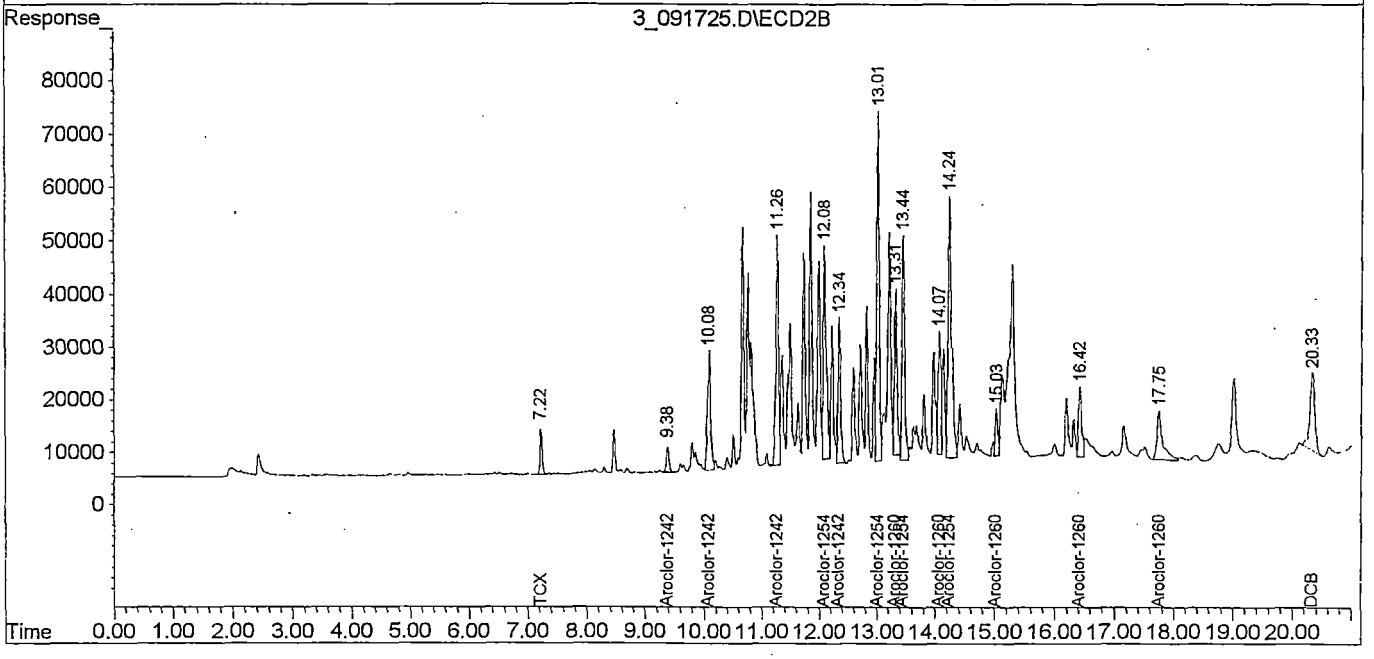
Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091725.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091725.D\ECD2B.CH
Acq On : 18 Sep 2001, 3:17 Operator: BTB
Sample : 47348.05, *E03D1 * Inst : HP_03
Misc : *EPA*30.1G/5.0ML*52 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 24 15:49 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

OK 9-25-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091725.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091725.D\ECD2B.CH
Acq On : 18 Sep 2001 3:17 Operator: BTB
Sample : 47348.05 *E03D1 * Inst : HP_03
Misc : *EPA*30.1G/5.0ML*52 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 24 15:49 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

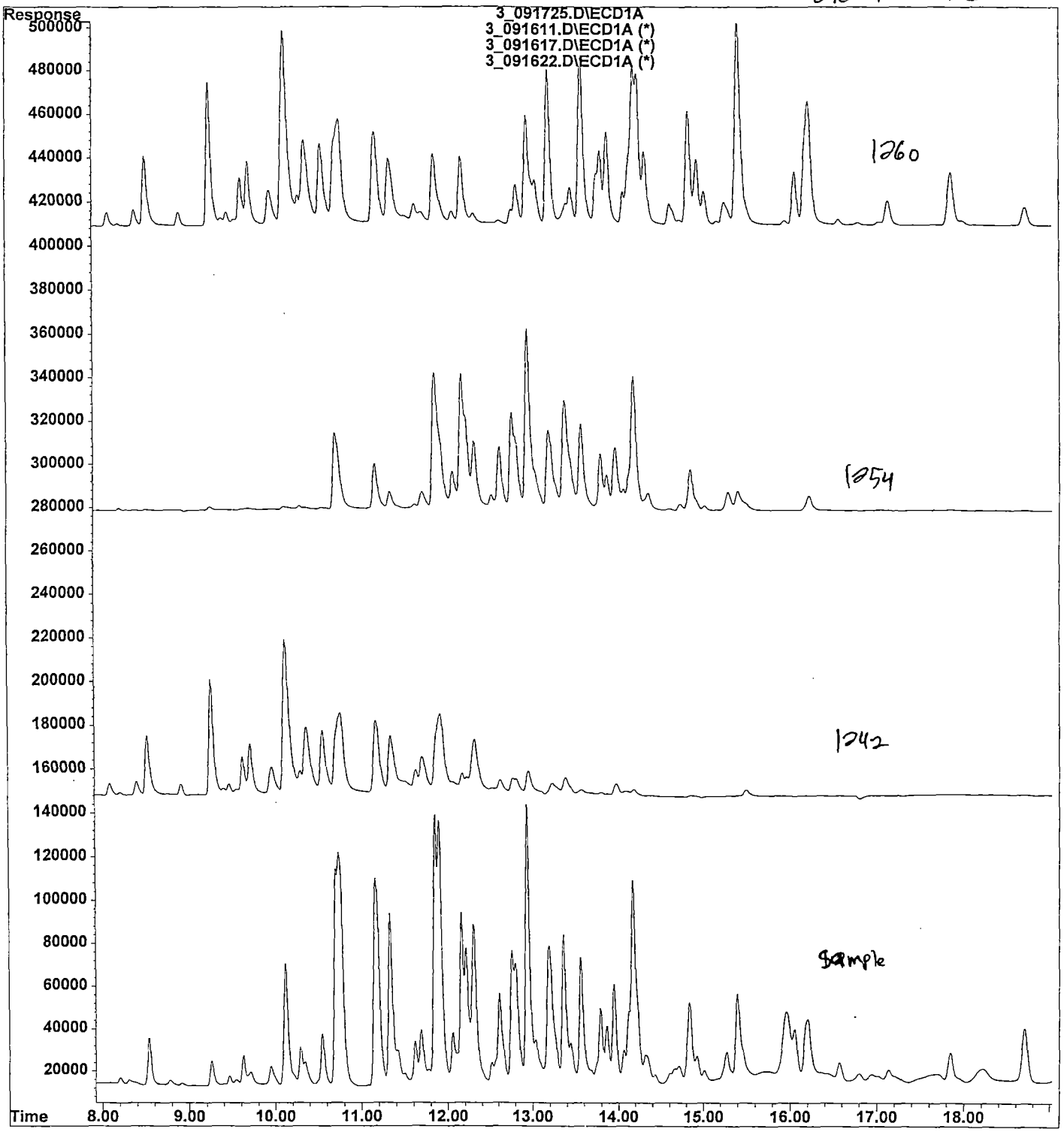
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	718212	225565	9.169	9.633
	Spiked Amount 13.843			Recovery	=	66.24%	69.59%
22)	S DCB	19.23	20.33	1855526	878430	22.8m BTB 092401	24.8m BTB 092401
	Spiked Amount 13.843			Recovery	=	164.71%	179.16%
	Target Compounds:						
7)	L4 Aroclor-1242	8.54	0.00	693892	0	424.5	N.D. d #
8)	L4 Aroclor-1242 {2}	9.26	9.38	377054	155724	132.3	157.0
9)	L4 Aroclor-1242 {3}	10.12	10.08	2177088	852513	414.1	446.2
10)	L4 Aroclor-1242 {4}	11.16	11.26	4373496	1378682	1895.6mE	2205.3 E
11)	L4 Aroclor-1242 {5}	12.30	12.34	2946886	843912	1638.9 E	1520.6mE
	Sum Aroclor-1242			10568417	3230831	4505.5	4329.0
	Average Aroclor-1242					901.095	1082.256
12)	L6 Aroclor-1254	10.73	0.00	7034408	0	2407.1mE	N.D. d #
13)	L6 Aroclor-1254 {2}	11.85	12.08	3155781	1517942	583.0	957.4 E#
14)	L6 Aroclor-1254 {3}	12.16	13.01	2250505	2061448	454.7	970.2 E#
15)	L6 Aroclor-1254 {4}	12.94	13.45	4122798	1316397	722.9	1122.3 E#
16)	L6 Aroclor-1254 {5}	14.18	14.24	4712164	2100411	1020.2 E	1337.8 E#
	Sum Aroclor-1254			21275657	6996198	5187.8	4387.7
	Average Aroclor-1254					1037.566	1096.936
17)	L7 Aroclor-1260	12.94	13.31	4122798	977728	1336.3 E	537.8m #
18)	L7 Aroclor-1260 {2}	13.56	14.07	1913492	807584	407.7m	680.6m #
19)	L7 Aroclor-1260 {3}	14.84	15.03	1492282	277763	497.2	178.1 #
20)	L7 Aroclor-1260 {4}	15.40	16.42	1786896	516123	264.6	322.7
21)	L7 Aroclor-1260 {5}	16.20	17.75	1776253	645220	345.4	572.3 #
	Sum Aroclor-1260			11091721	3224418	1973.4	1586.0
	Average Aroclor-1260					570.228	458.289

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

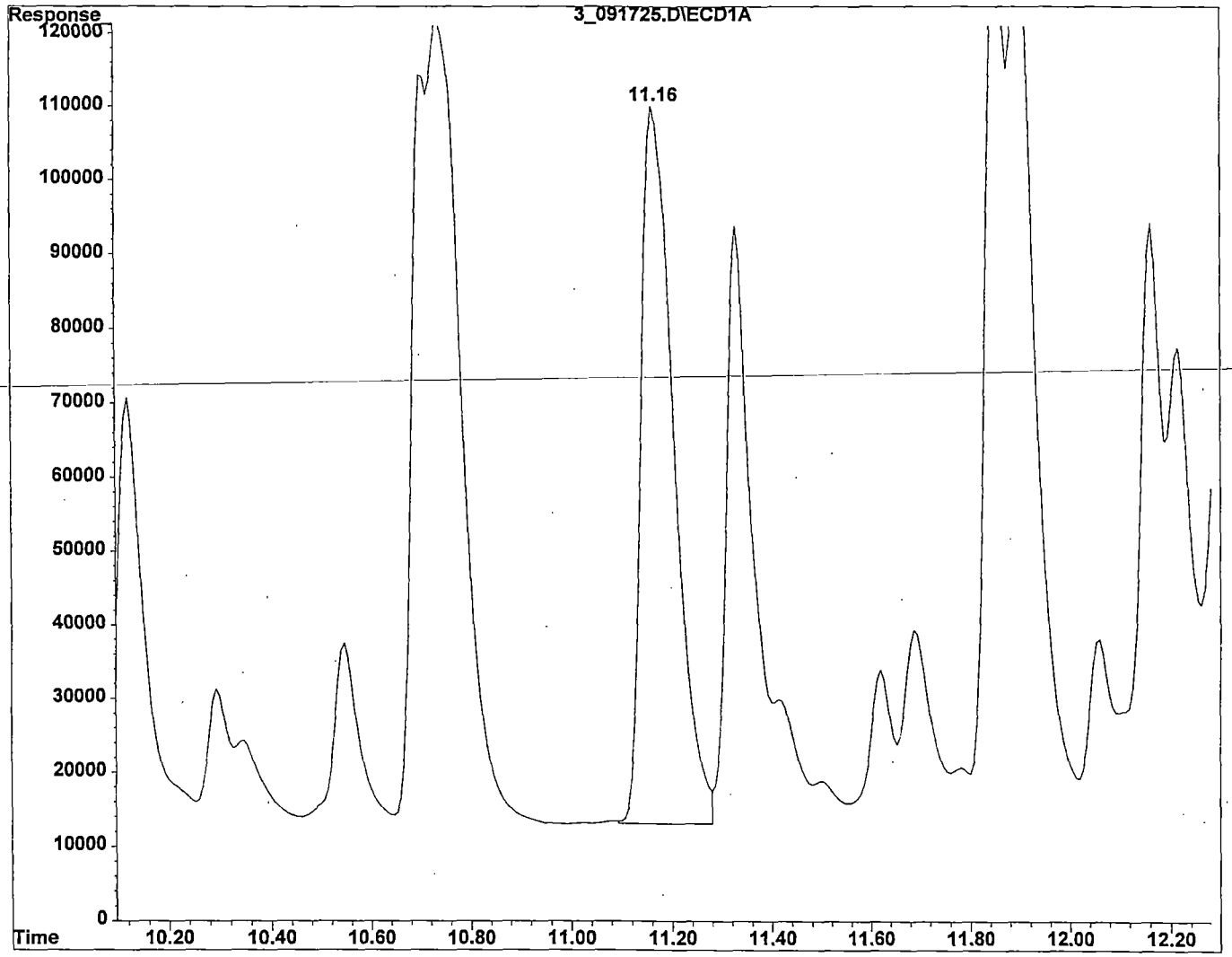
File : F:\HPCHEM\HP\3\DATA\09_17_01\3_091725.D
Operator : BTB
Acquired : 18 Sep 2001 3:17 using AcqMethod OLM03.M
Instrument : HP_03
Sample Name: 47348.05 *E03D1 *
Misc Info : *EPA*30.1G/5.0ML*52
Vial Number: 25

OIC 9-21-01



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091725.D
Date Acquired: 18 Sep 2001 3:17
Inst: HP_03 Operator ID: BTB
Name: 47348.05 *E03D1 *
Misc: *EPA*30.1G/5.0ML*52
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:47 2001 Quant Results File: XPCBI16.RES



OK 9-21-01

Aroclor-1242 {4} 11.16min area: 4373496 m

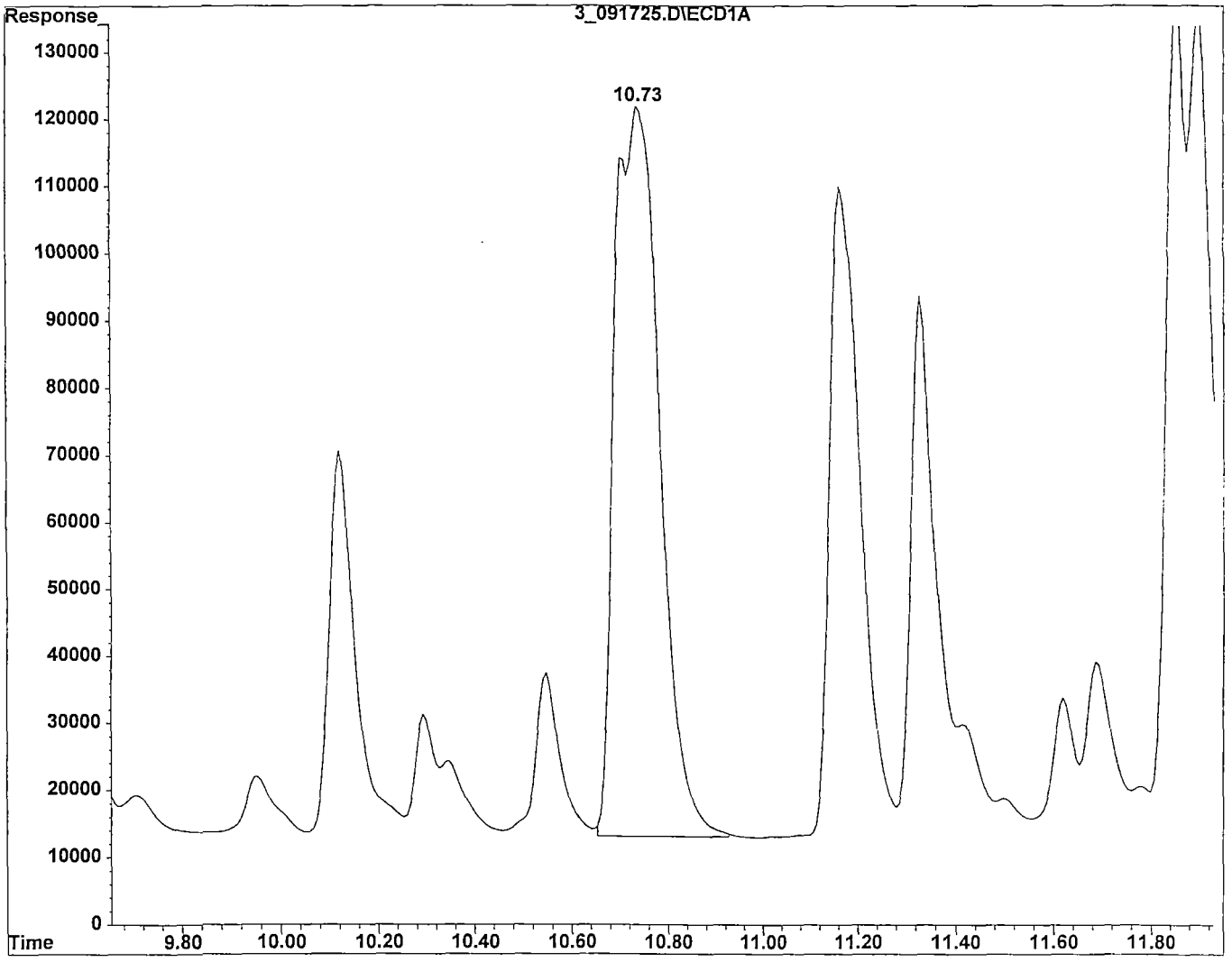
BTB 091901

Integration Time Range: 11.10 - 11.28

F:\HPCHEM\HP\3\DATA\09_17_01\3_091725.D
Report generated: Wed Sep 19 11:23:24 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091725.D
Date Acquired: 18 Sep 2001 3:17
Inst: HP_03 Operator ID: BTB
Name: 47348.05 *E03D1 *
Misc: *EPA*30.1G/5.0ML*52
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 24 15:49 2001 Quant Results File: XPCBI16.RES



ok 9-25-01 [illegible]

Aroclor-1254 10.73min area: 7034408 m

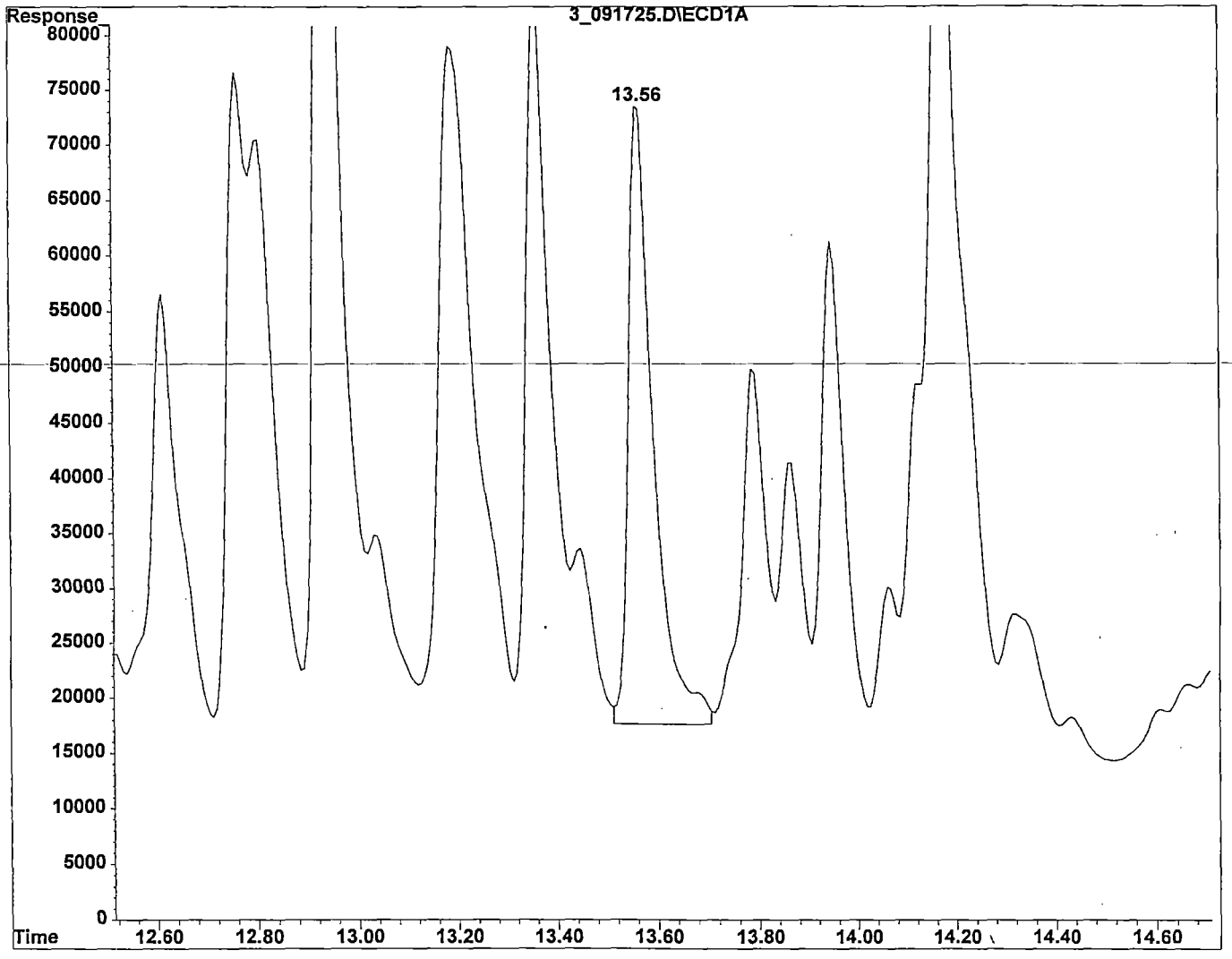
BTB 092401

Integration Time Range: 10.65 - 10.93

F:\HPCHEM\HP\3\DATA\09_17_01\3_091725.D
Report generated: Mon Sep 24 16:12:51 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091725.D
Date Acquired: 18 Sep 2001 3:17
Inst: HP_03 Operator ID: BTB
Name: 47348.05 *E03D1 *
Misc: *EPA*30.1G/5.0ML*52
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:47 2001 Quant Results File: XPCBI16.RES



ok 9-21-01

Aroclor-1260 {2} 13.56min area: 1913492 m

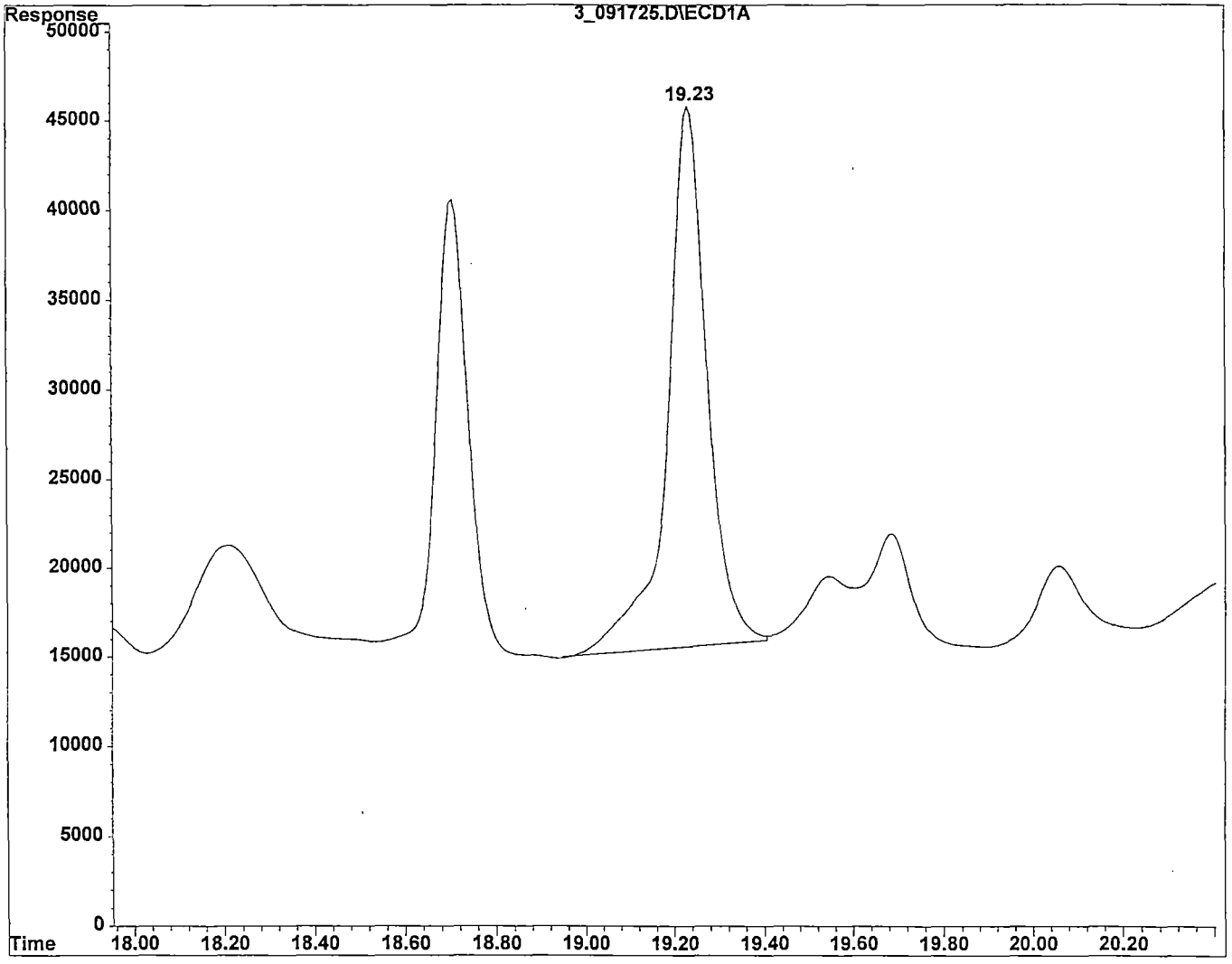
BTB 091901

Integration Time Range: 13.51 - 13.71

F:\HPCHEM\HP\3\DATA\09_17_01\3_091725.D
Report generated: Wed Sep 19 11:23:24 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091725.D
Date Acquired: 18 Sep 2001 3:17
Inst: HP_03 Operator ID: BTB
Name: 47348.05 *E03D1 *
Misc: *EPA*30.1G/5.0ML*52
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:47 2001 Quant Results File: XPCBI16.RES



OK 9-21-01 BA

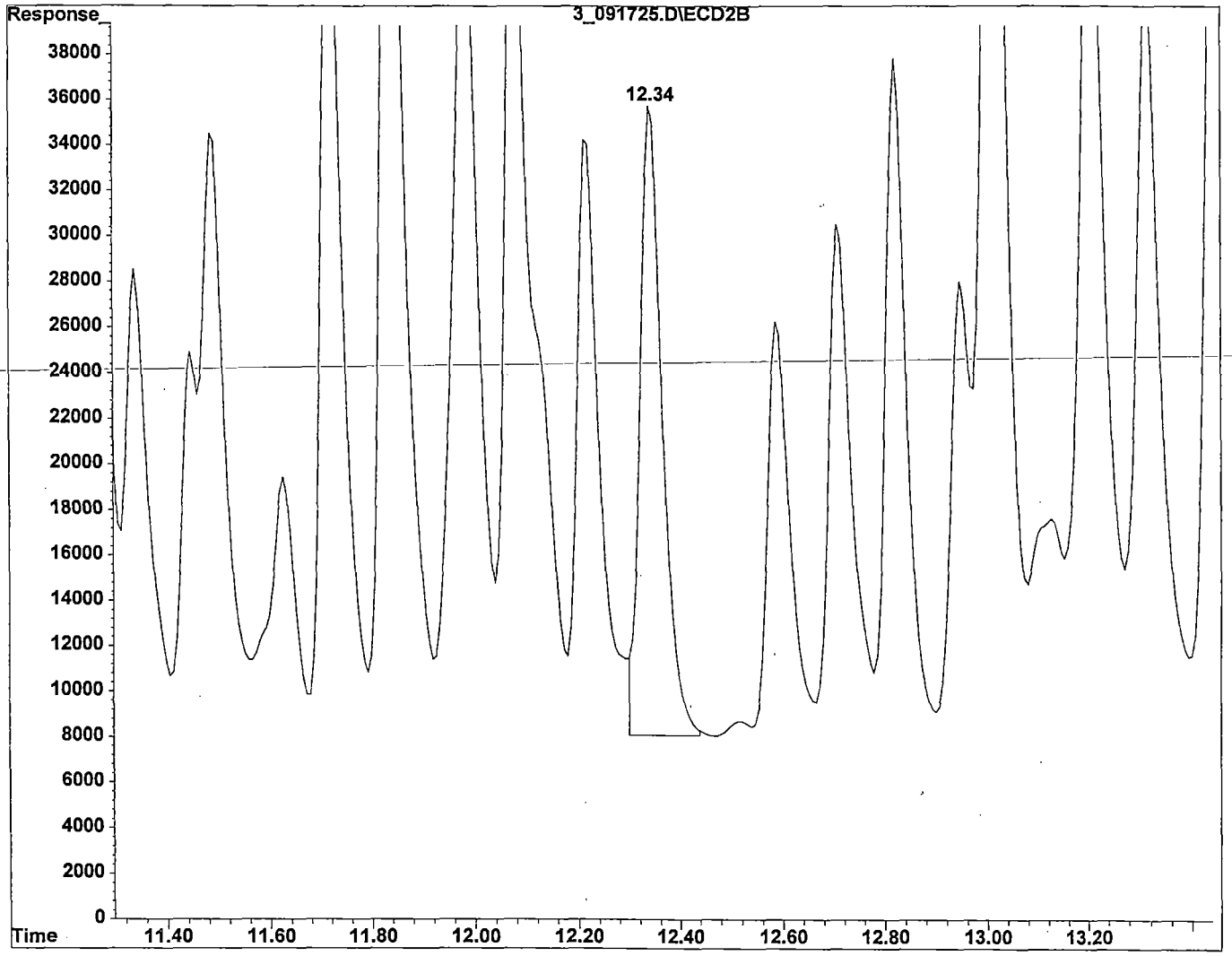
DCB 19.23min area: 1855526 m BTB 091901

Integration Time Range: 18.95 - 19.40

F:\HPCHEM\HP\3\DATA\09_17_01\3_091725.D
Report generated: Wed Sep 19 11:23:25 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091725.D
Date Acquired: 18 Sep 2001 3:17
Inst: HP_03 Operator ID: BTB
Name: 47348.05 *E03D1 *
Misc: *EPA*30.1G/5.0ML*52
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:47 2001 Quant Results File: XPCBI16.RES



OK 9-21-01 BTB

Aroclor-1242 {5} #2 12.34min area: 843912 m

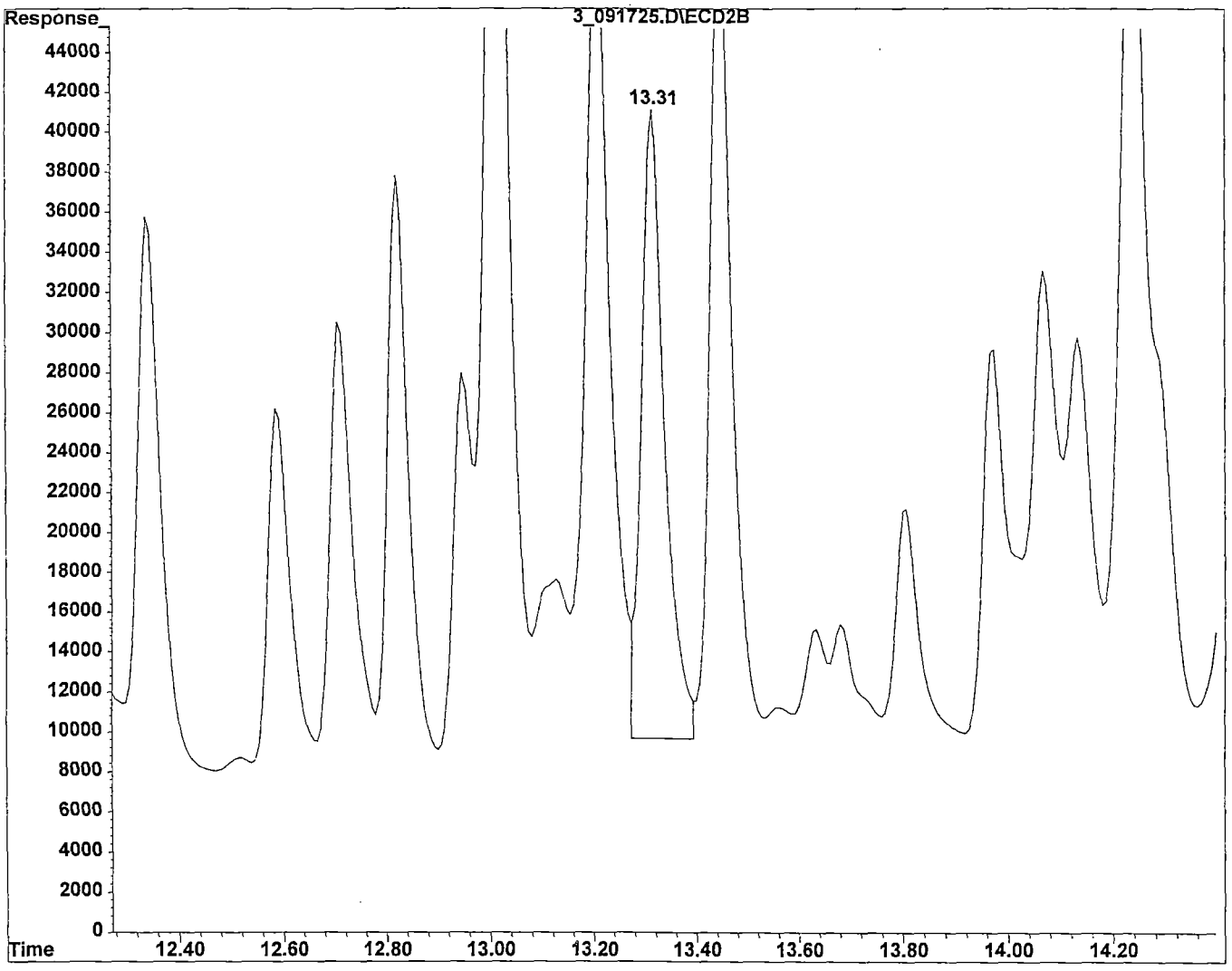
Integration Time Range: 12.30 - 12.44

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091725.D
Report generated: Wed Sep 19 11:23:25 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091725.D
Date Acquired: 18 Sep 2001 3:17
Inst: HP_03 Operator ID: BTB
Name: 47348.05 *E03D1 *
Misc: *EPA*30.1G/5.0ML*52
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:47 2001 Quant Results File: XPCBI16.RES



ck 9-21-01

Aroclor-1260 #2 13.31min area: 977728 m

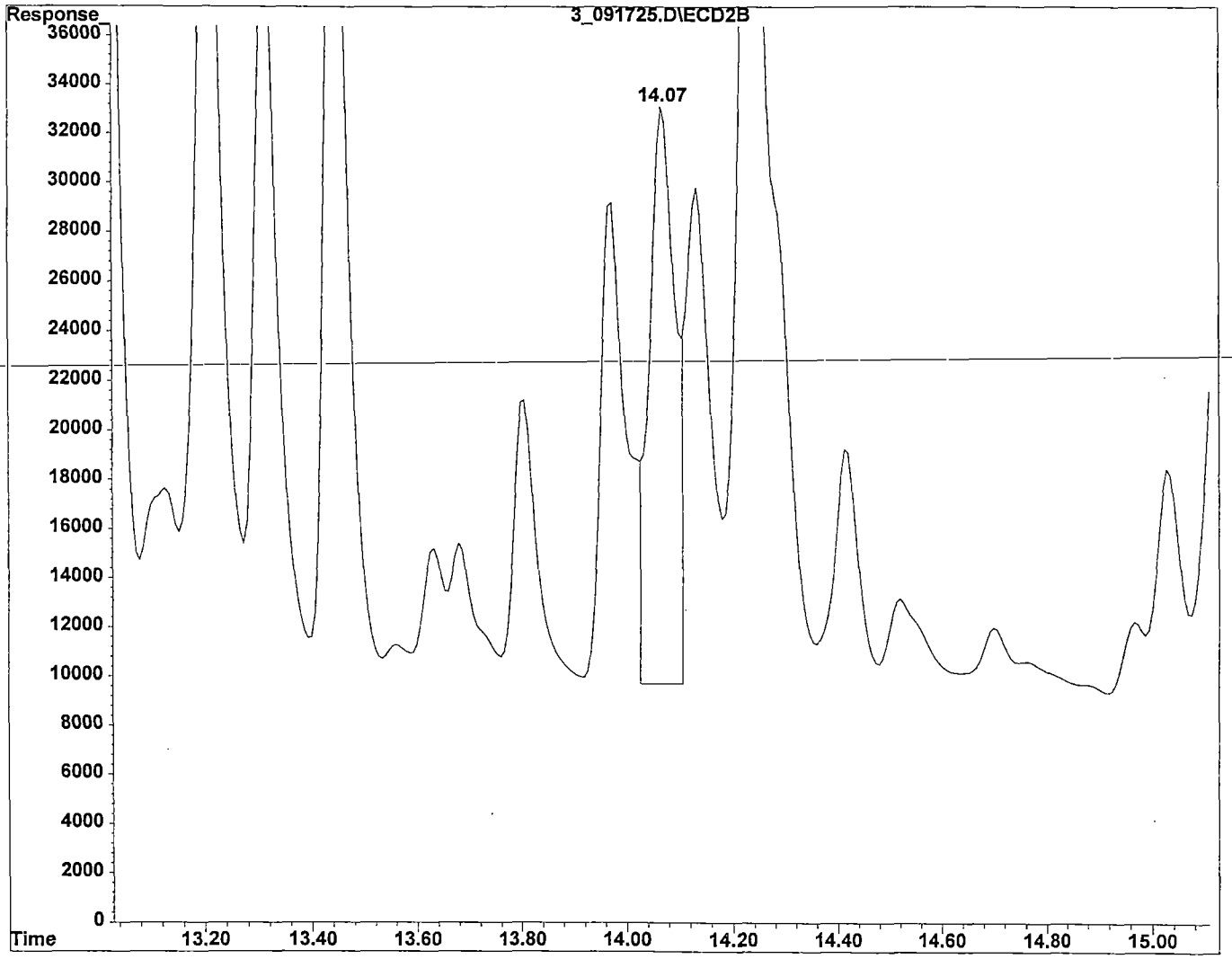
Integration Time Range: 13.27 - 13.39

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091725.D
Report generated: Wed Sep 19 11:23:26 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091725.D
Date Acquired: 18 Sep 2001 3:17
Inst: HP_03 Operator ID: BTB
Name: 47348.05 *E03D1 *
Misc: *EPA*30.1G/5.0ML*52
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:47 2001 Quant Results File: XPCBI16.RES



OK 9-21-01 @A

Aroclor-1260 {2} #2 14.07min area: 807584 m

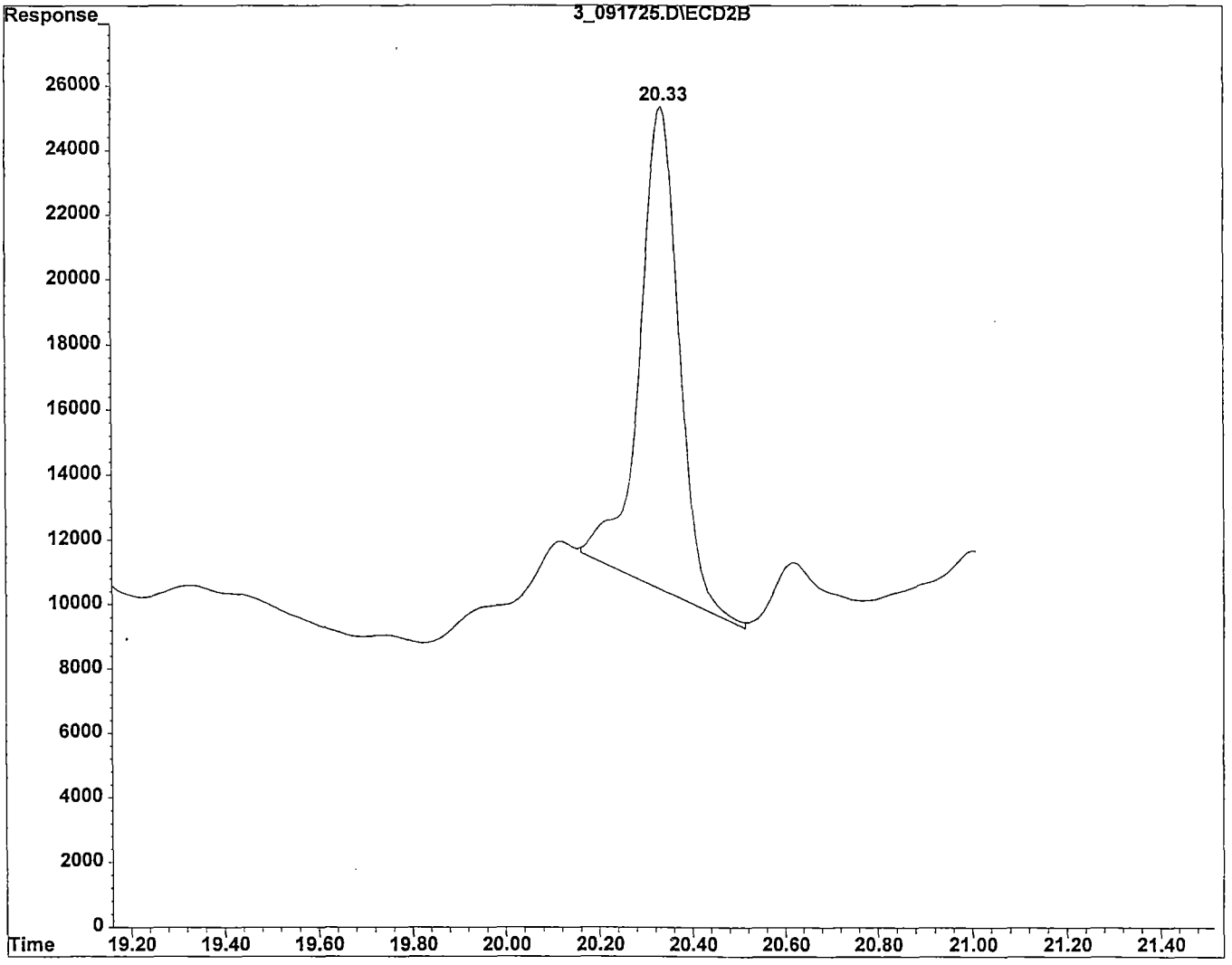
Integration Time Range: 14.03 - 14.11

BTB 09/19/01

F:\HPCHEM\HP\3\DATA\09_17_01\3_091725.D
Report generated: Wed Sep 19 11:23:26 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091725.D
Date Acquired: 18 Sep 2001 3:17
Inst: HP_03 Operator ID: BTB
Name: 47348.05 *E03D1 *
Misc: *EPA*30.1G/5.0ML*52
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:47 2001 Quant Results File: XPCBI16.RES



OK 9-21-01 EM

DCB #2 20.33min area: 878430 m BTB 091901

Integration Time Range: 20.16 - 20.52

F:\HPCHEM\HP\3\DATA\09_17_01\3_091725.D
Report generated: Wed Sep 19 11:23:27 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E03D1DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Matrix: (soil/water) SOIL Lab Sample ID: 47348.05DL

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

% Moisture: 52 decanted: (Y/N) __ Date Received: 08/20/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/23/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/19/01

Injection Volume: 0.5(uL) Dilution Factor: 10.0

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	690	UJ
11104-28-2	Aroclor-1221	690	UJ
11141-16-5	Aroclor-1232	690	UJ
53469-21-9	Aroclor-1242	1600	DJ
12672-29-6	Aroclor-1248	690	UJ
11097-69-1	Aroclor-1254	2000	DJ
11096-82-5	Aroclor-1260	850	DPJ
Surrogate amount spiked		13.84	

TBS
10-11-01

FORM I PCB

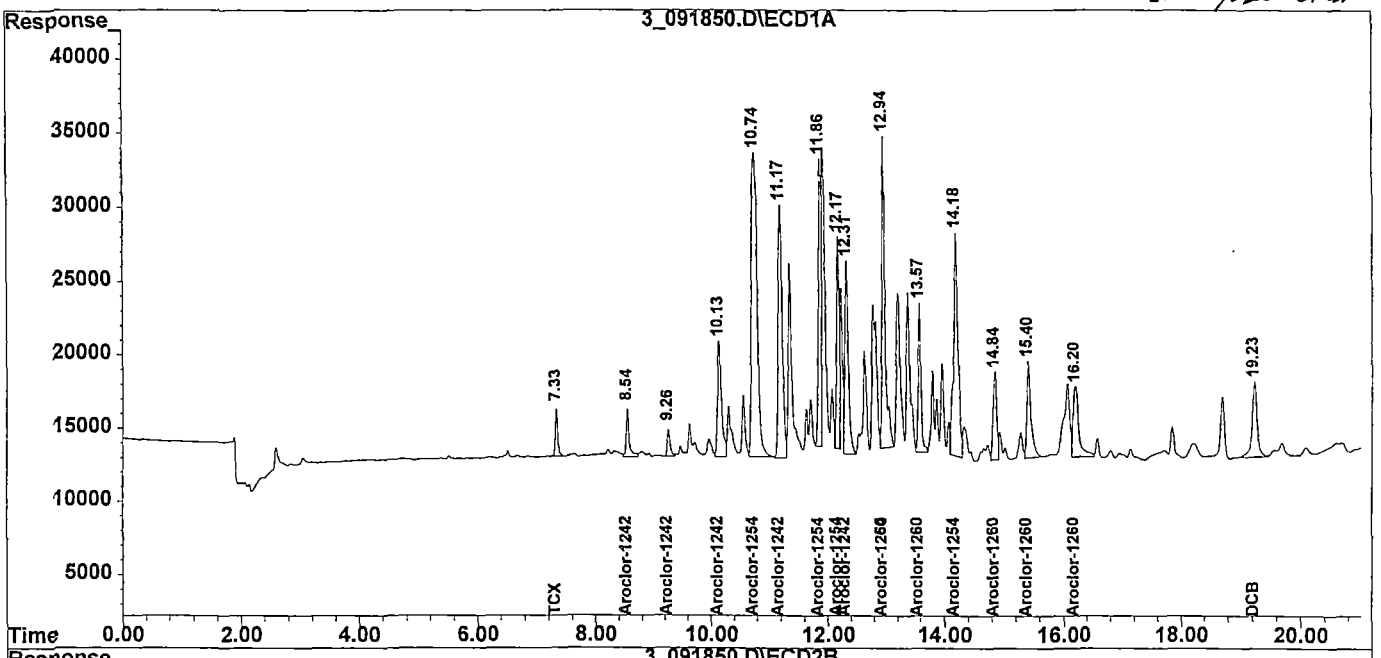
Chromatographic Report

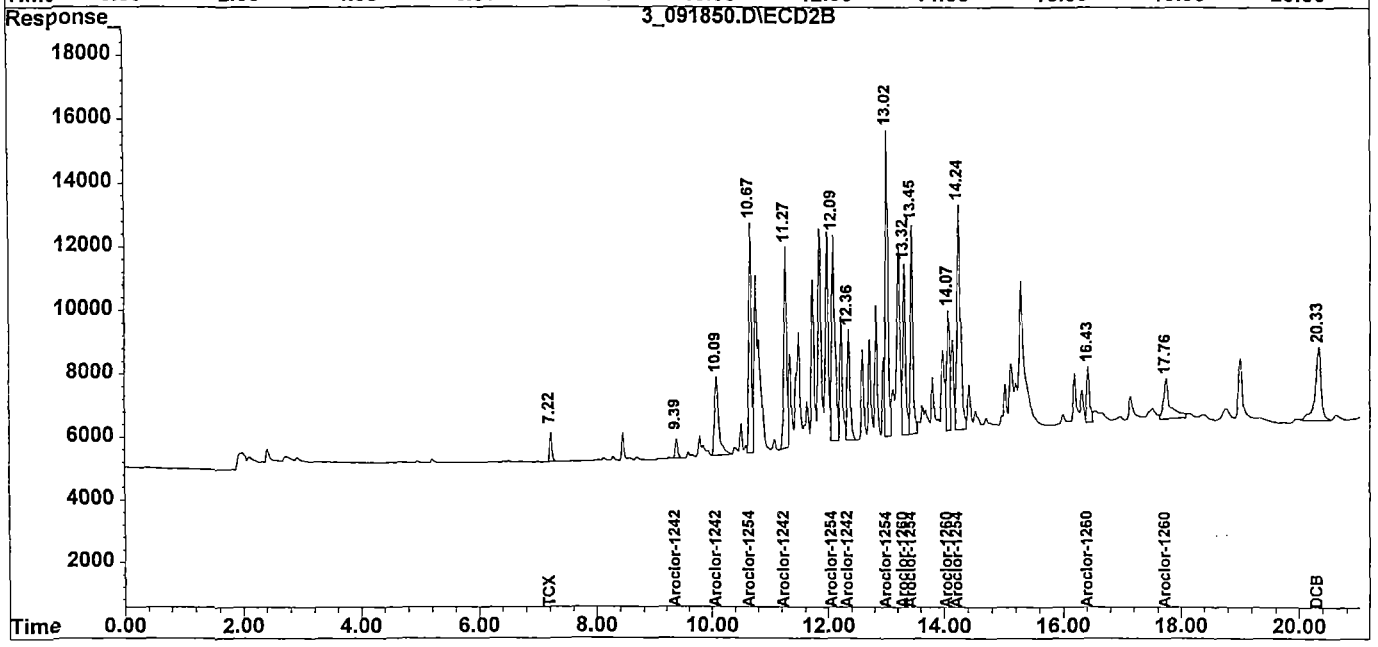
Signal #1 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091850.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091850.D\ECD2B.CH
Acq On : 19 Sep 2001 20:48 Operator: BTB
Sample : 47348.05DL *E03D1DL * Inst : HP_03
Misc : *EPA*30.1G/5.0ML*52 Dilution: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 9:19 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

BK 9-25-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091850.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091850.D\ECD2B.CH
Acq On : 19 Sep 2001 20:48 Operator: BTB
Sample : 47348.05DL *E03D1DL * Inst : HP_03
Misc : *EPA*30.1G/5.0ML*52 Dilution: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 9:19 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

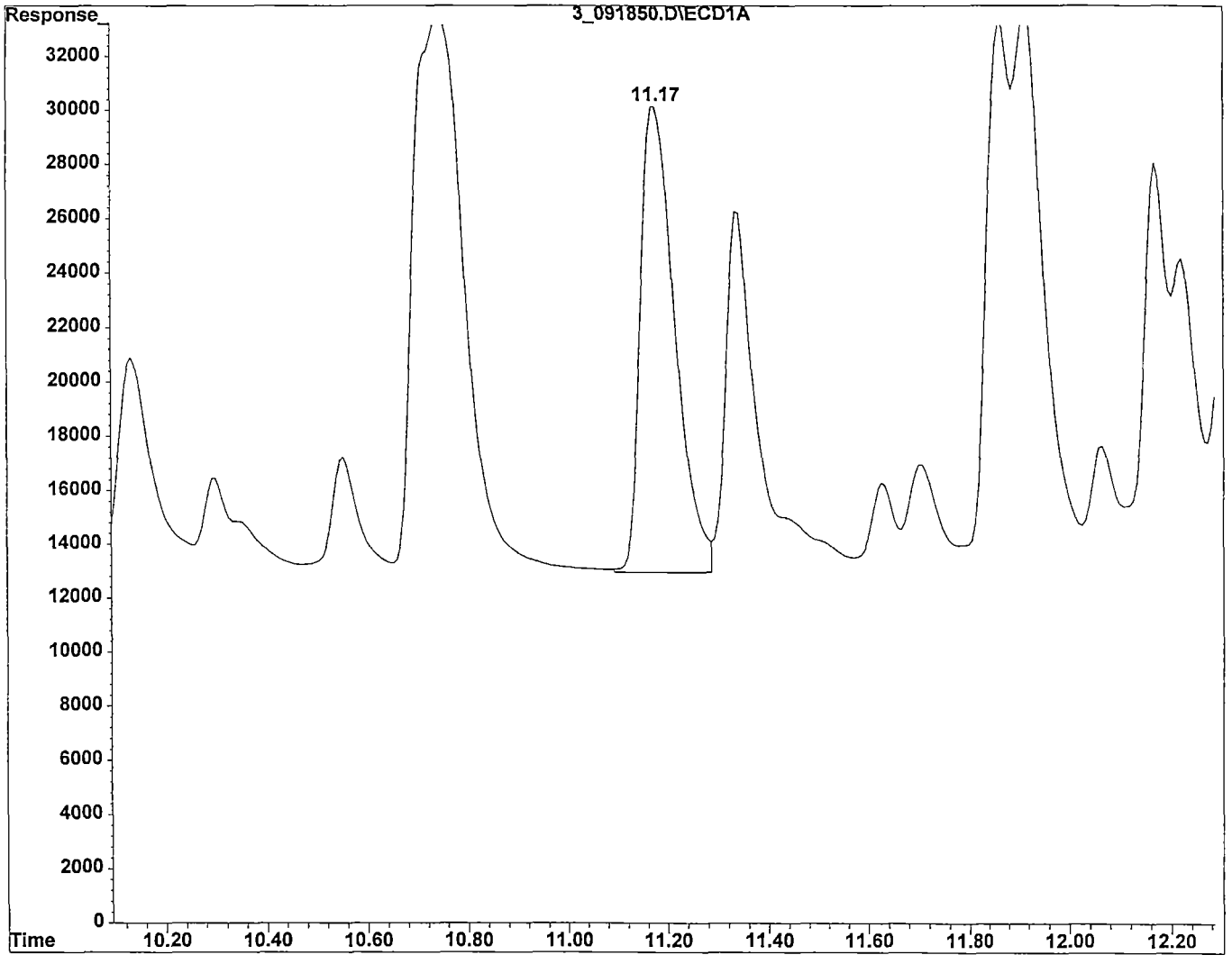
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
System Monitoring Compounds:						
1) S TCX	7.33	7.22	97654	25273	12.5	10.8
Spiked Amount 13.843			Recovery	=	90.30%	78.02%
22) S DCB	19.23	20.33	304709	157488	37.5m BTB 09/20/01	44.5m BTB 09/20/01
Spiked Amount 13.843			Recovery	=	270.90%	321.47%
Target Compounds:						
7) L4 Aroclor-1242	8.54	0.00	120131	0	734.9	N.D. d #
8) L4 Aroclor-1242 {2}	9.26	9.39	63480	19965	222.8	201.2
9) L4 Aroclor-1242 {3}	10.14	10.09	370704	128639	705.2	673.2
10) L4 Aroclor-1242 {4}	11.17	11.27	827424	206029	3586.4m	3295.6
11) L4 Aroclor-1242 {5}	12.31	12.35	533864	119736	2969.0m	2157.5m #
Sum Aroclor-1242			1915603	474369	8218.3	6327.5
Average Aroclor-1242					1643.652	1581.878
12) L6 Aroclor-1254	10.74	10.67	1422984	224579	4869.3	3189.6 #
13) L6 Aroclor-1254 {2}	11.86	12.09	603562	259508	1115.0	1636.8m #
14) L6 Aroclor-1254 {3}	12.17	13.02	435752	326298	880.4	1535.7 #
15) L6 Aroclor-1254 {4}	12.95	13.45	815781	207676	1430.4	1770.6
16) L6 Aroclor-1254 {5}	14.18	14.25	794814	311911	1720.7	1986.6
Sum Aroclor-1254			4072894	1329973	10015.8	10119.3
Average Aroclor-1254					2003.165	2023.865
17) L7 Aroclor-1260	12.95	13.32	815781	179237	2644.1	985.8 #
18) L7 Aroclor-1260 {2}	13.57	14.08	345396	128624	736.0m	1084.0 #
19) L7 Aroclor-1260 {3}	14.85	0.00	244013	0	813.0	N.D. d #
20) L7 Aroclor-1260 {4}	15.40	16.43	307448	65257	455.2	408.0
21) L7 Aroclor-1260 {5}	16.20	17.76	340177	102194	661.5	906.4 #
Sum Aroclor-1260			2052815	475311	36750.5	23423.9
Average Aroclor-1260					1061.942	846.070

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_18_01\3_091850.D
Date Acquired: 19 Sep 2001 20:48
Inst: HP_03 Operator ID: BTB
Name: 47348.05DL *E03D1DL *
Misc: *EPA*30.1G/5.0ML*52
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 9:19 2001 Quant Results File: XPCBI16.RES



OK 9-25-01 BH

Aroclor-1242 {4} 11.17min area: 827424 m

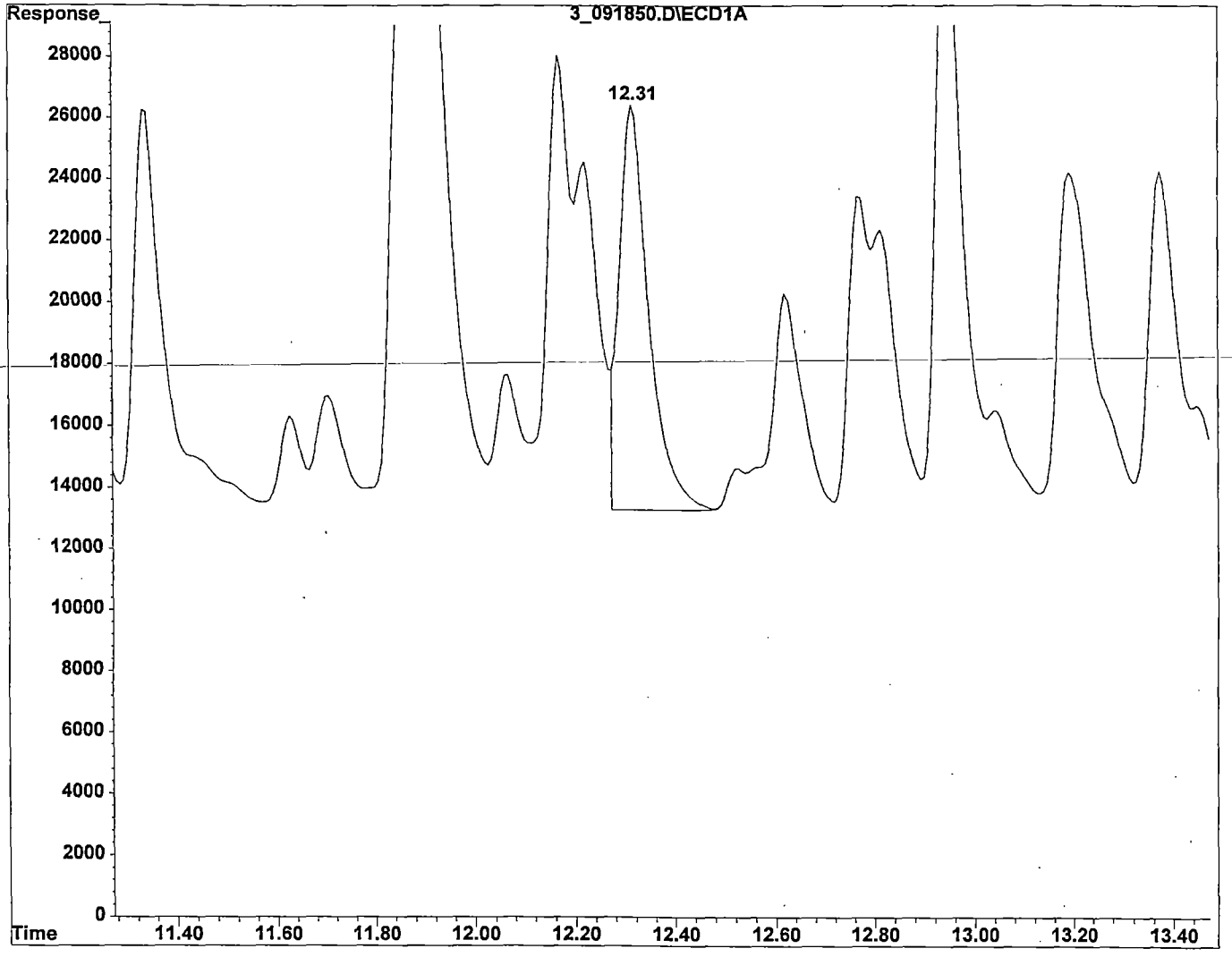
Integration Time Range: 11.09 - 11.29

BTB 092001

F:\HPCHEM\HP\3\DATA\09_18_01\3_091850.D
Report generated: Thu Sep 20 09:47:56 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_18_01\3_091850.D
Date Acquired: 19 Sep 2001 20:48
Inst: HP_03 Operator ID: BTB
Name: 47348.05DL *E03D1DL *
Misc: *EPA*30.1G/5.0ML*52
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 9:19 2001 Quant Results File: XPCBI16.RES



OK 9-25-01

Aroclor-1242 {5} 12.31min area: 533864 m

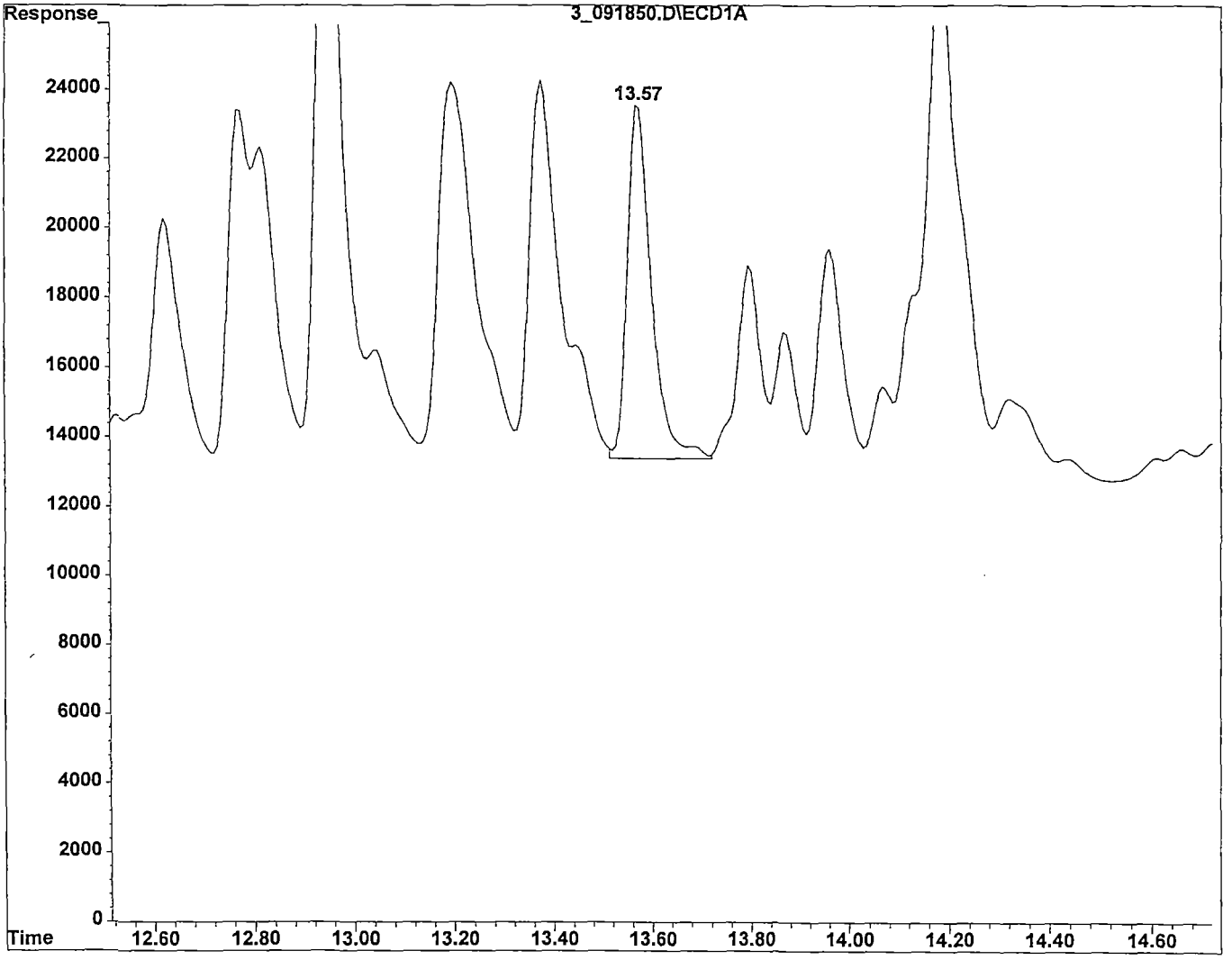
Integration Time Range: 12.27 - 12.47

BTB 09-20-01

F:\HPCHEM\HP\3\DATA\09_18_01\3_091850.D
Report generated: Thu Sep 20 09:47:57 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_18_01\3_091850.D
Date Acquired: 19 Sep 2001 20:48
Inst: HP_03 Operator ID: BTB
Name: 47348.05DL *E03D1DL *
Misc: *EPA*30.1G/5.0ML*52
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 9:19 2001 Quant Results File: XPCBI16.RES



Aroclor-1260 {2} 13.57min area: 345396 m

Integration Time Range: 13.51 - 13.72

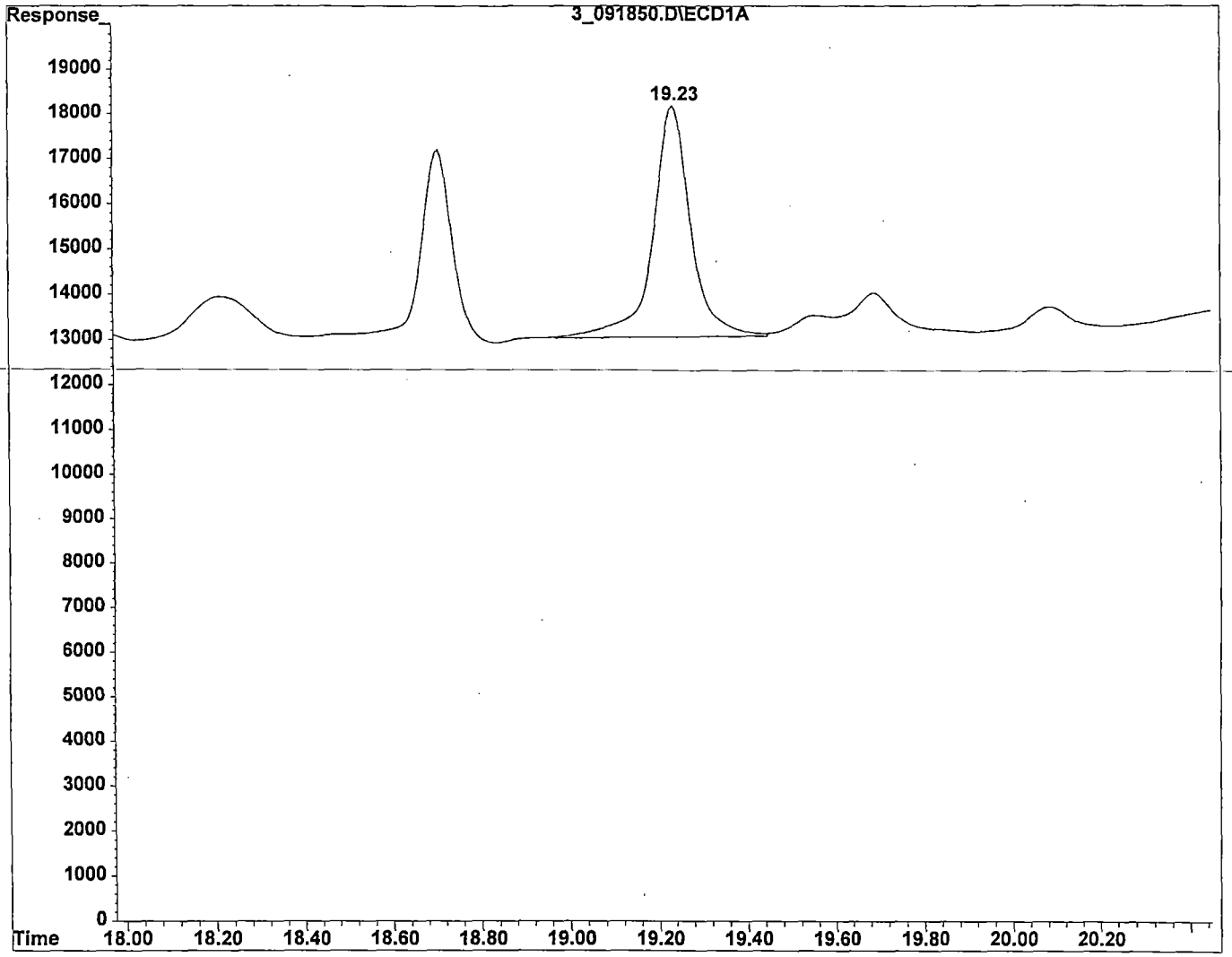
ok 9-25-01 BB

BTB 092001

F:\HPCHEM\HP\3\DATA\09_18_01\3_091850.D
Report generated: Thu Sep 20 09:47:58 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_18_01\3_091850.D
Date Acquired: 19 Sep 2001 20:48
Inst: HP_03 Operator ID: BTB
Name: 47348.05DL *E03D1DL *
Misc: *EPA*30.1G/5.0ML*52
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 9:19 2001 Quant Results File: XPCBI16.RES



OK 9-25-01

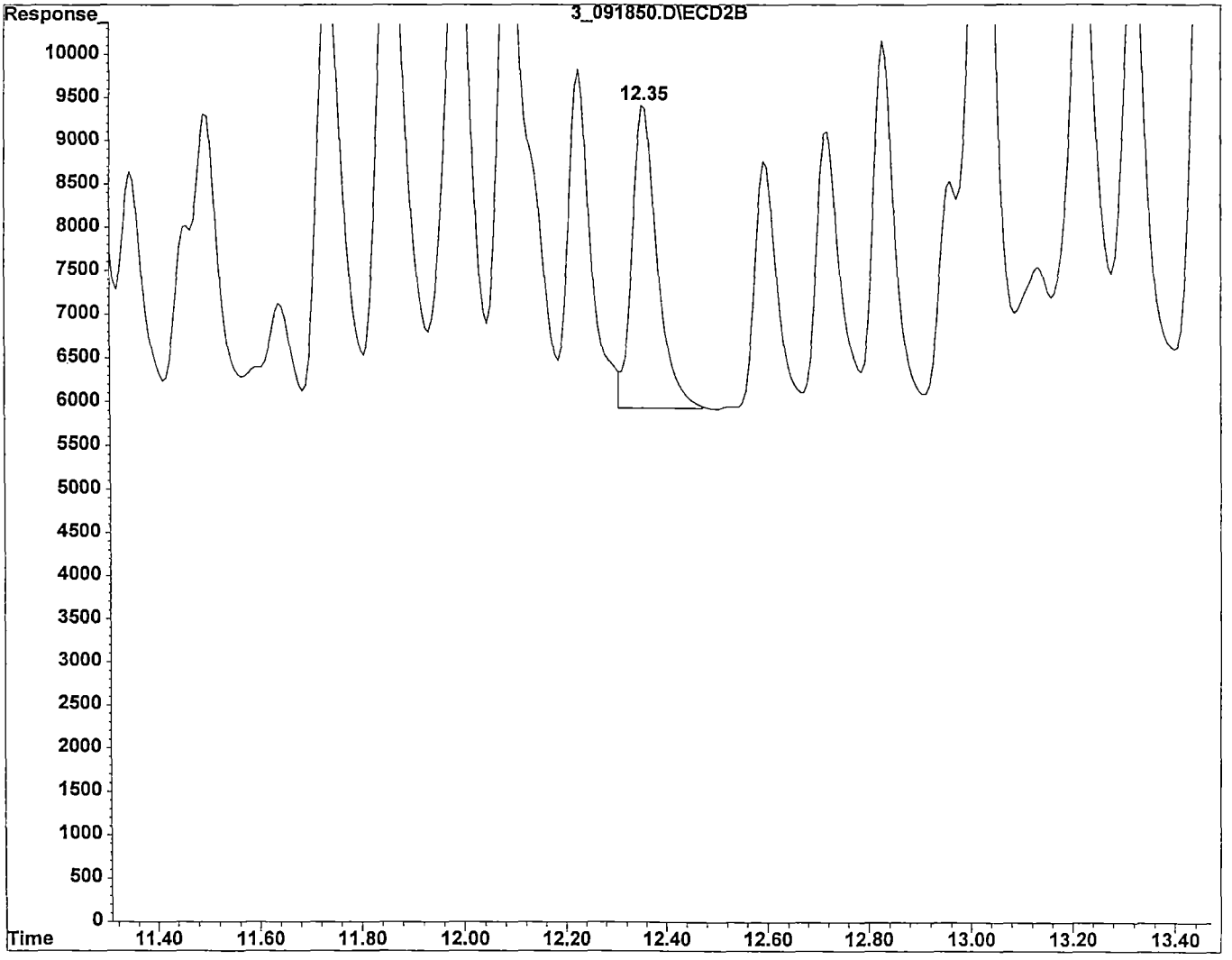
DCB 19.23min area: 304709 m BTB 092001

Integration Time Range: 18.98 - 19.45

F:\HPCHEM\HP\3\DATA\09_18_01\3_091850.D
Report generated: Thu Sep 20 09:47:58 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_18_01\3_091850.D
Date Acquired: 19 Sep 2001 20:48
Inst: HP_03 Operator ID: BTB
Name: 47348.05DL *E03D1DL *
Misc: *EPA*30.1G/5.0ML*52
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 9:19 2001 Quant Results File: XPCBI16.RES



Aroclor-1242 {5} #2 12.35min area: 119736 m

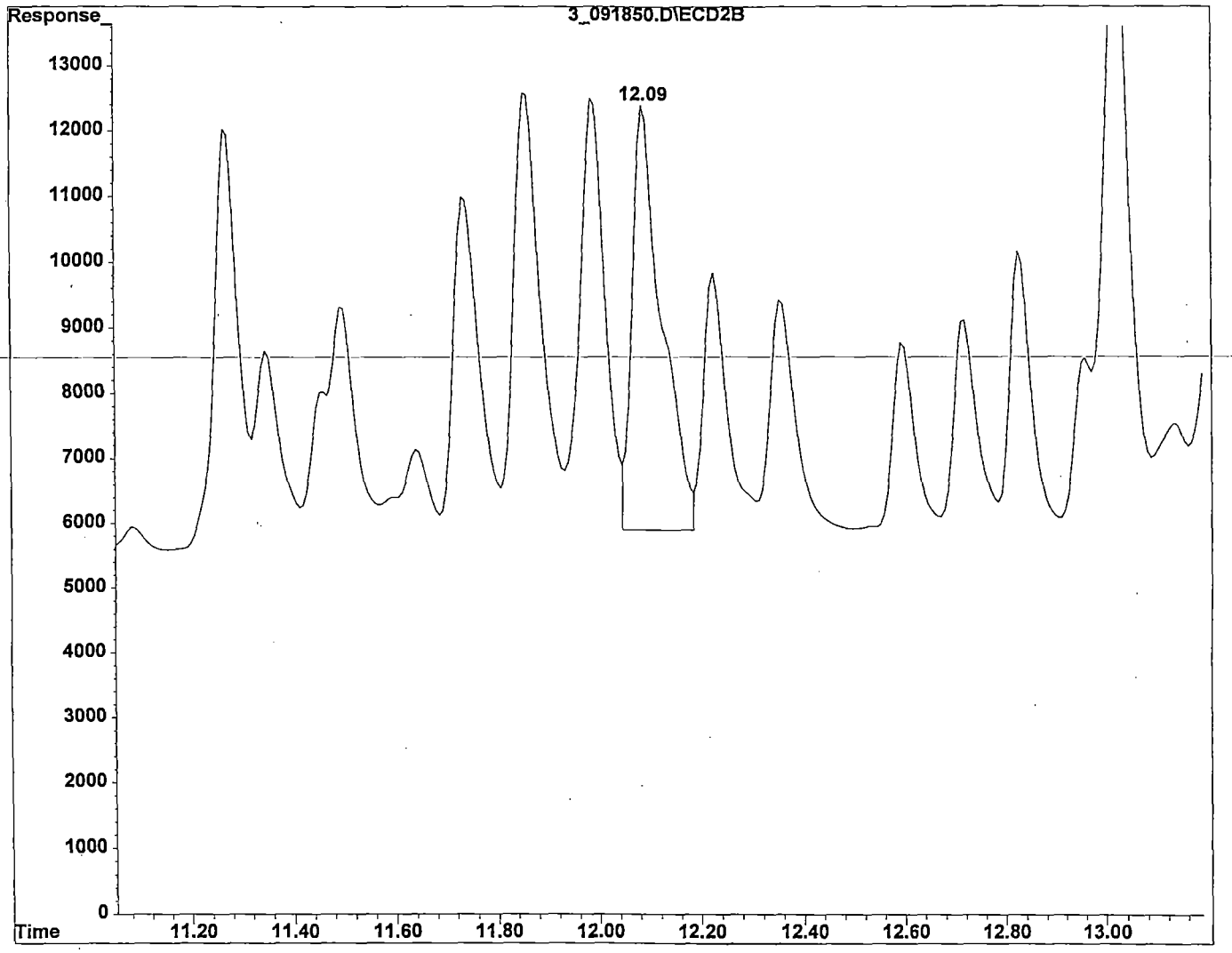
Integration Time Range: 12.31 - 12.47

BTB 09/20/01

F:\HPCHEM\HP\3\DATA\09_18_01\3_091850.D
Report generated: Thu Sep 20 09:47:59 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_18_01\3_091850.D
Date Acquired: 19 Sep 2001 20:48
Inst: HP_03 Operator ID: BTB
Name: 47348.05DL *E03D1DL *
Misc: *EPA*30.1G/5.0ML*52
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 9:19 2001 Quant Results File: XPCBI16.RES



Aroclor-1254 {2} #2 12.09min area: 259508 m

Integration Time Range: 12.05 - 12.19

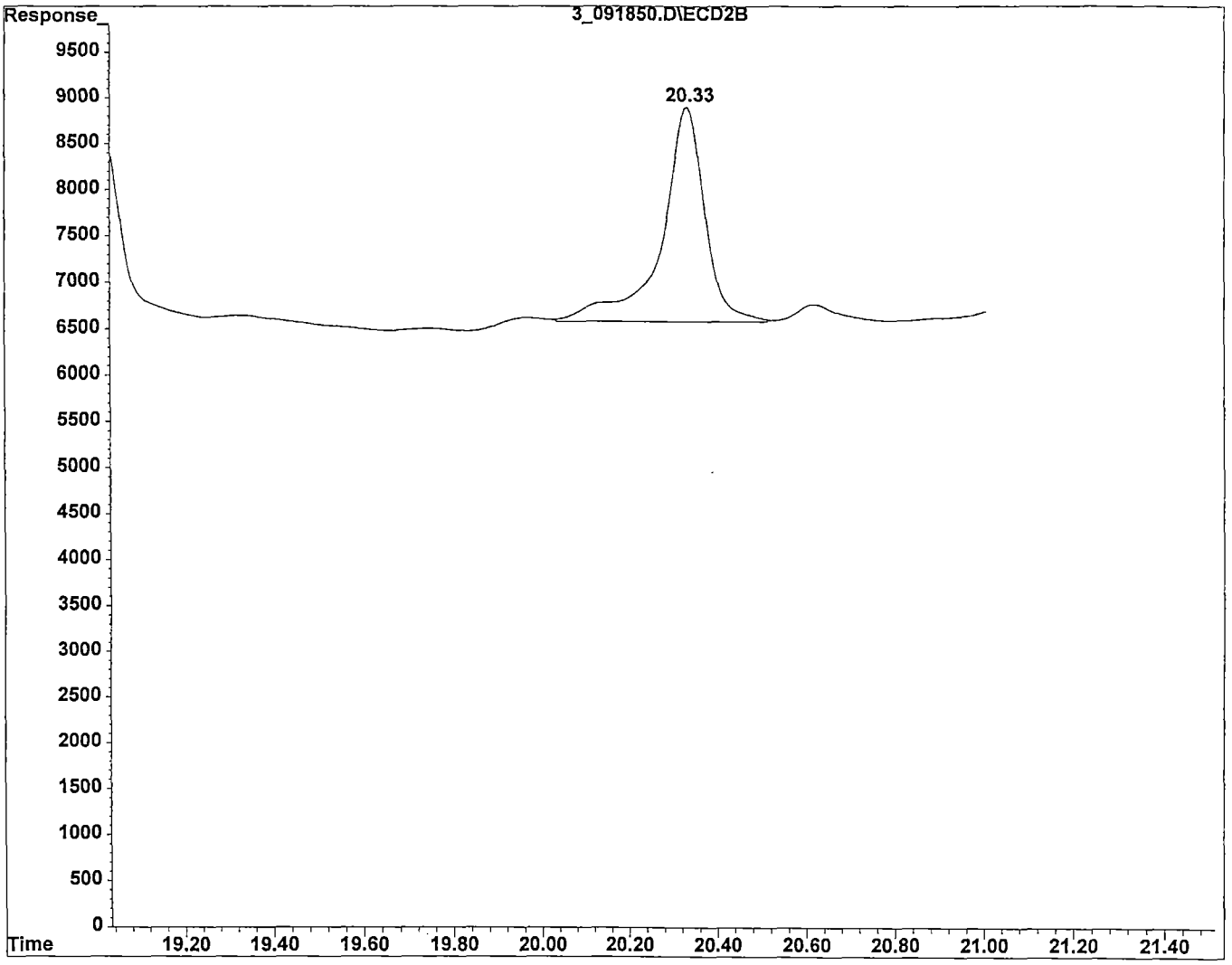
ok 9-25-01 GI

BTB 092001

F:\HPCHEM\HP\3\DATA\09_18_01\3_091850.D
Report generated: Thu Sep 20 09:47:59 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_18_01\3_091850.D
Date Acquired: 19 Sep 2001 20:48
Inst: HP_03 Operator ID: BTB
Name: 47348.05DL *E03D1DL *
Misc: *EPA*30.1G/5.0ML*52
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 9:19 2001 Quant Results File: XPCBI16.RES



DCB #2 20.33min area: 157488 m BTB 092001

ok 9-25-01

Integration Time Range: 20.03 - 20.51

F:\HPCHEM\HP\3\DATA\09_18_01\3_091850.D
Report generated: Thu Sep 20 09:48:00 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E03D2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Matrix: (soil/water) SOIL Lab Sample ID: 47348.06

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

% Moisture: 56 decanted: (Y/N) __ Date Received: 08/20/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/23/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/18/01

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	73	U J
11104-28-2	Aroclor-1221	73	U J
11141-16-5	Aroclor-1232	73	U J
53469-21-9	Aroclor-1242	190	J
12672-29-6	Aroclor-1248	73	U J
11097-69-1	Aroclor-1254	220	J
11096-82-5	Aroclor-1260	110	P J
Surrogate amount spiked		14.80	

520

TBS 10-11-01

FORM I PCB

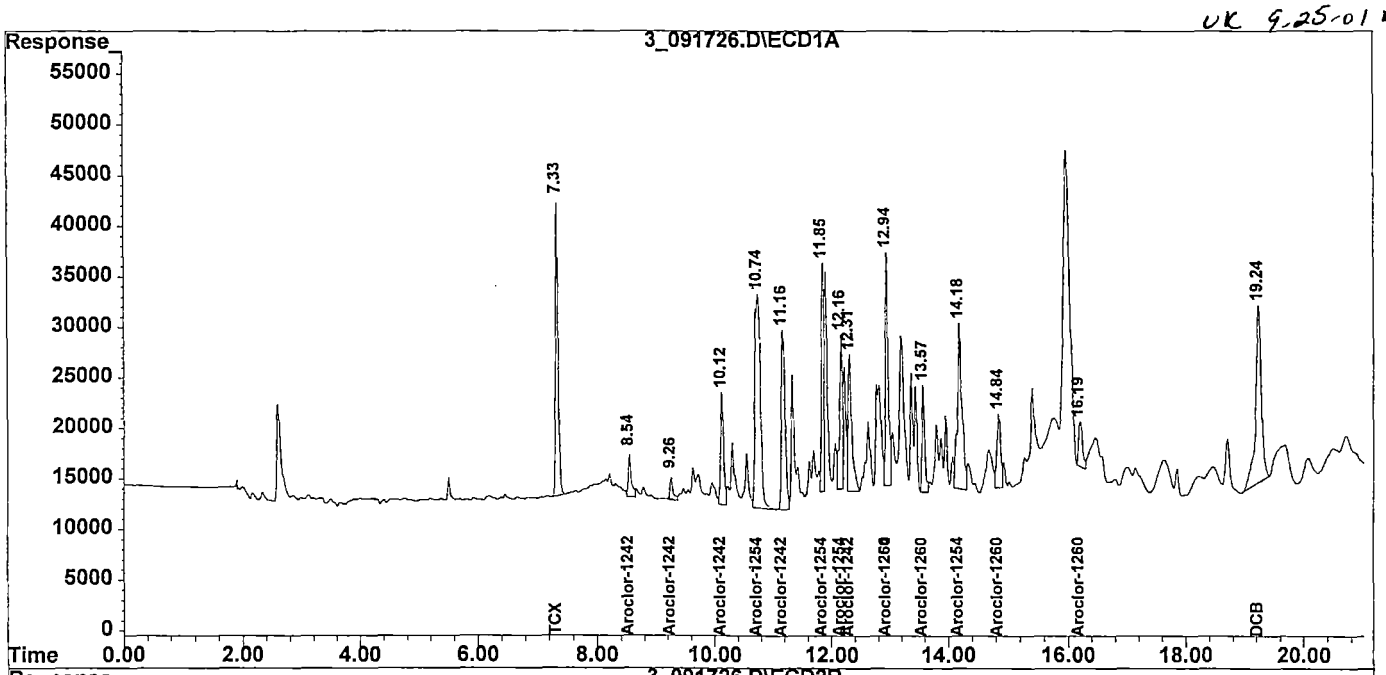
Chromatographic Report

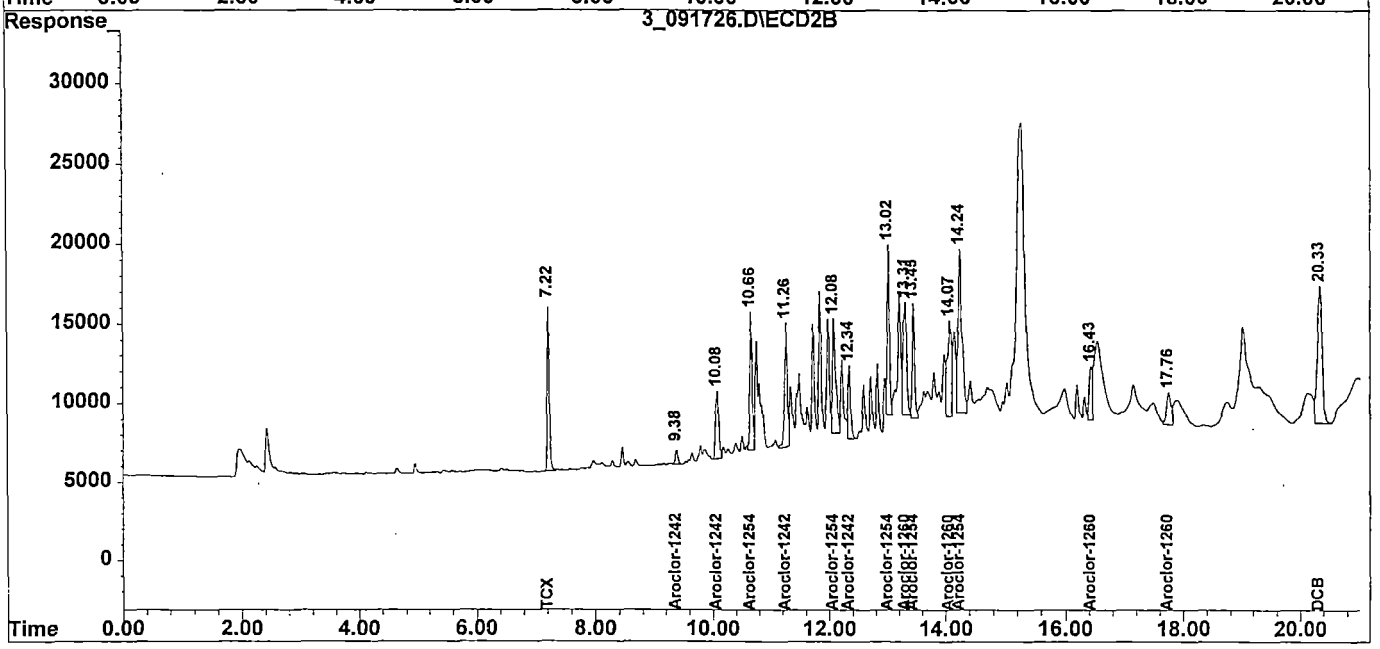
Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091726.D\ECD1A.CH Vial: 26
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091726.D\ECD2B.CH
Acq On : 18 Sep 2001 3:43 Operator: BTB
Sample : 47348.06 *E03D2 * Inst : HP_03
Misc : *EPA*30.7G/5.0ML*56 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 10:52 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

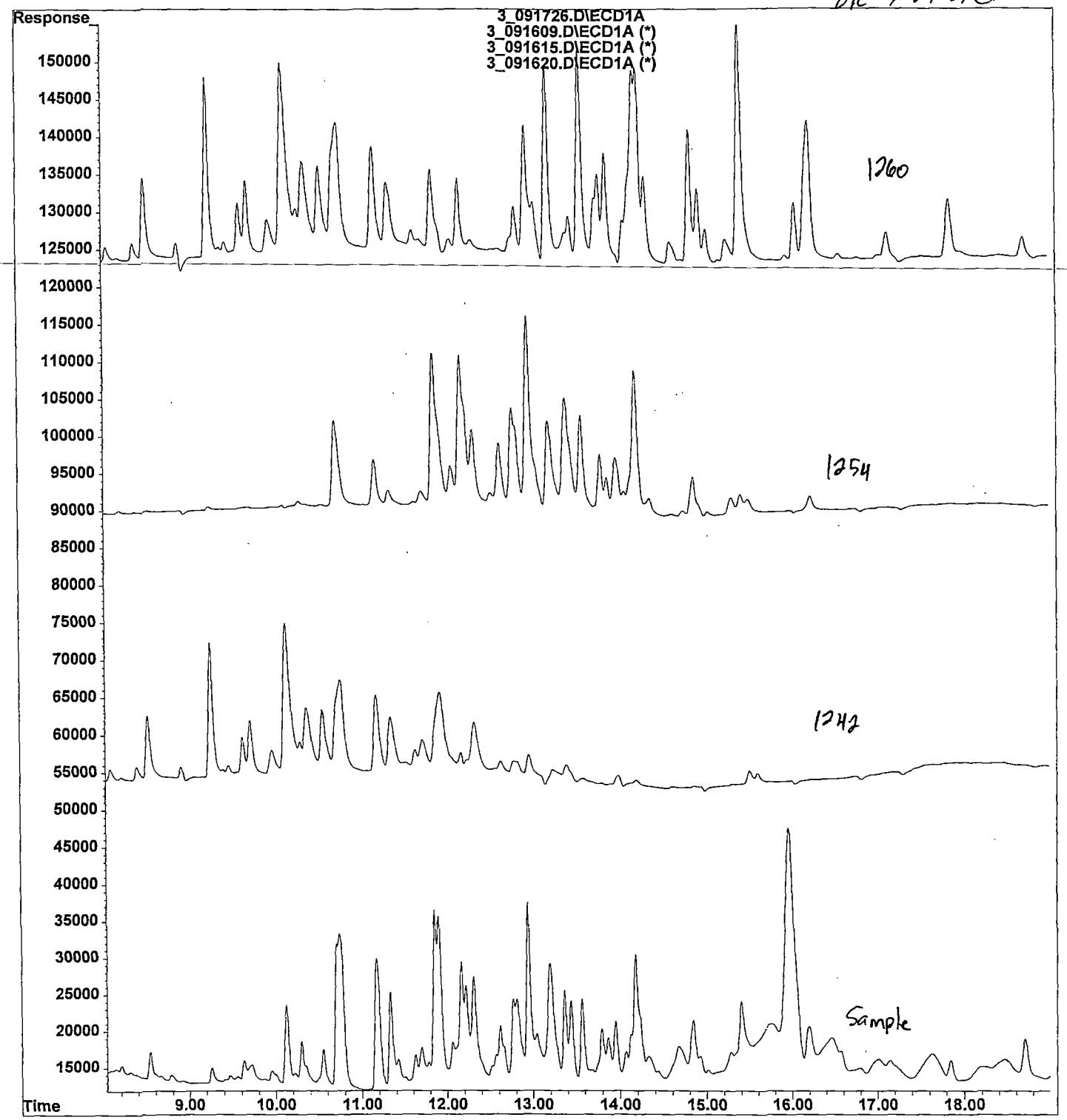
UK 9-25-01





File : F:\HPCHEM\HP\3\DATA\09_17_01\3_091726.D
Operator : BTB
Acquired : 18 Sep 2001 3:43 using AcqMethod OLM03.M
Instrument : HP_03
Sample Name: 47348.06 *E03D2 *
Misc Info : *EPA*30.7G/5.0ML*56
Vial Number: 26

DK 9-21-01



Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091726.D\ECD1A.CH Vial: 26
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091726.D\ECD2B.CH
Acq On : 18 Sep 2001 3:43 Operator: BTB
Sample : 47348.06 *E03D2 * Inst : HP_03
Misc : *EPA*30.7G/5.0ML*56 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 10:52 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

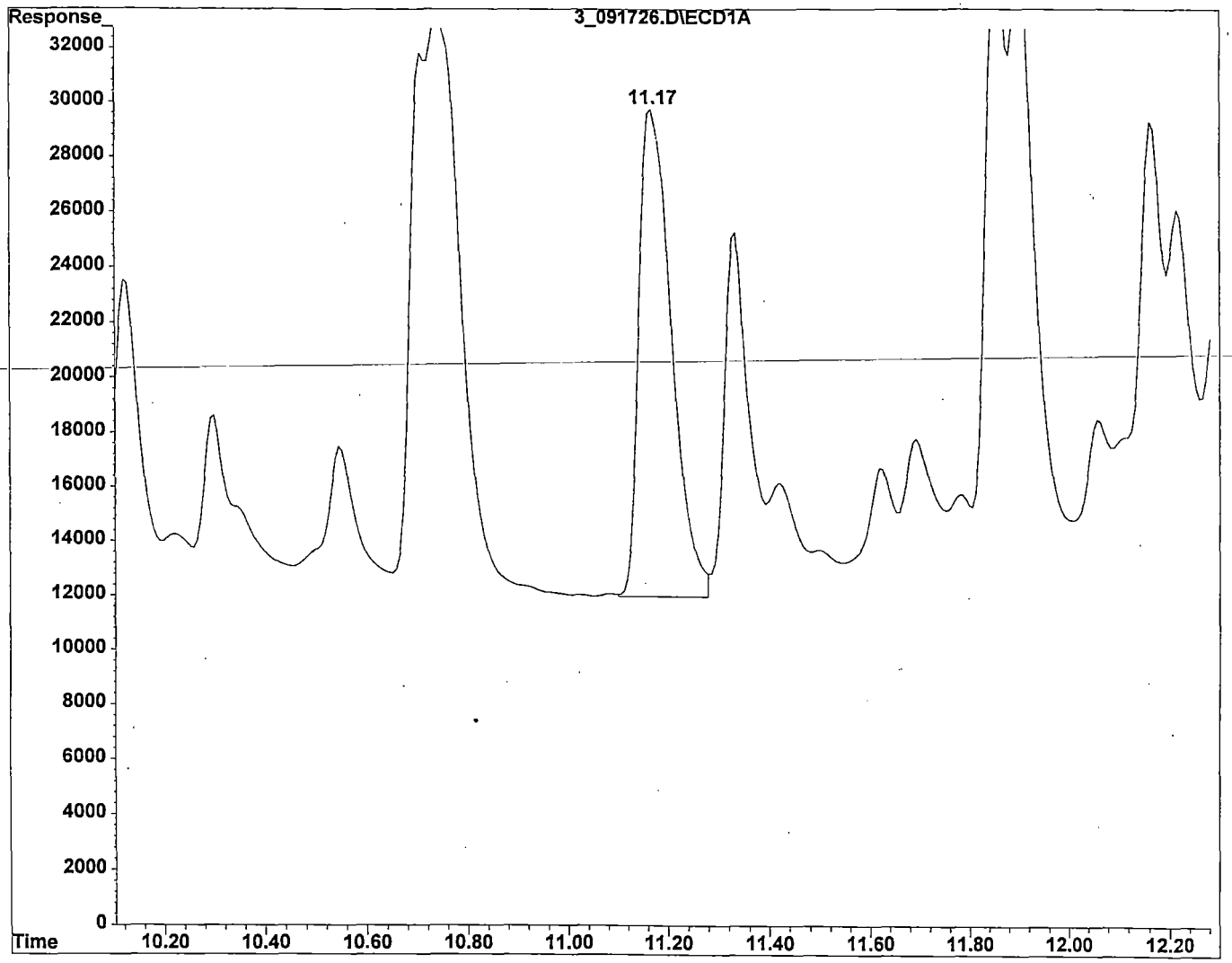
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	831860	268142	11.4	12.2
	Spiked Amount 14.806			Recovery	=	77.00%	82.40%
22)	S DCB	19.24	20.34	1140940	478260	15.0m BTB	14.4
	Spiked Amount 14.806			Recovery	=	101.31% 091901	97.26%
	Target Compounds:						
7)	L4 Aroclor-1242	8.54	0.00	154396	0	101.0	N.D. d #
8)	L4 Aroclor-1242 {2}	9.26	9.39	81891	28907	30.7	31.2
9)	L4 Aroclor-1242 {3}	10.12	10.08	396298	172785	80.6	96.7
10)	L4 Aroclor-1242 {4}	11.17	11.27	802068	261532	371.8m	447.4
11)	L4 Aroclor-1242 {5}	12.31	12.35	592036	137384	352.2m	264.8m BTB 091901
	Sum Aroclor-1242			2026689	600607	936.4	840.1
	Average Aroclor-1242					187.281	210.026
12)	L6 Aroclor-1254	10.74	10.66	1387832	253912	508.0	385.7m
13)	L6 Aroclor-1254 {2}	11.86	12.08	605827	276700	119.7	186.7m #
14)	L6 Aroclor-1254 {3}	12.16	13.01	518189	304504	112.0	153.3m #
15)	L6 Aroclor-1254 {4}	12.94	13.45	783063	207440	146.9	189.2m #
16)	L6 Aroclor-1254 {5}	14.18	14.24	894908	492240	207.2	335.3m #
	Sum Aroclor-1254			4189818	1534796	1093.7	1250.2
	Average Aroclor-1254					218.744	250.034
17)	L7 Aroclor-1260	12.94	13.31	783063	314940	271.5	185.3m #
18)	L7 Aroclor-1260 {2}	13.57	14.07	338304	277416	77.1m	250.1m #
19)	L7 Aroclor-1260 {3}	14.84	0.00	324666	0	115.7	N.D. d #
20)	L7 Aroclor-1260 {4}	16.19f	16.44	218880	114023	34.7m	76.3 #
21)	L7 Aroclor-1260 {5}	16.20f	17.76	216505	107988	45.0	102.4 #
	Sum Aroclor-1260			1881418	814367	402.7	454.6
	Average Aroclor-1260					108.791	153.512

(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\3\DATA\09_17_01\3_091726.D
Date Acquired: 18 Sep 2001 3:43
Inst: HP_03 Operator ID: BTB
Name: 47348.06 *E03D2 *
Misc: *EPA*30.7G/5.0ML*56
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:52 2001 Quant Results File: XPCBI16.RES



OK 9-25-01

Aroclor-1242 {4} 11.17min area: 802068 m

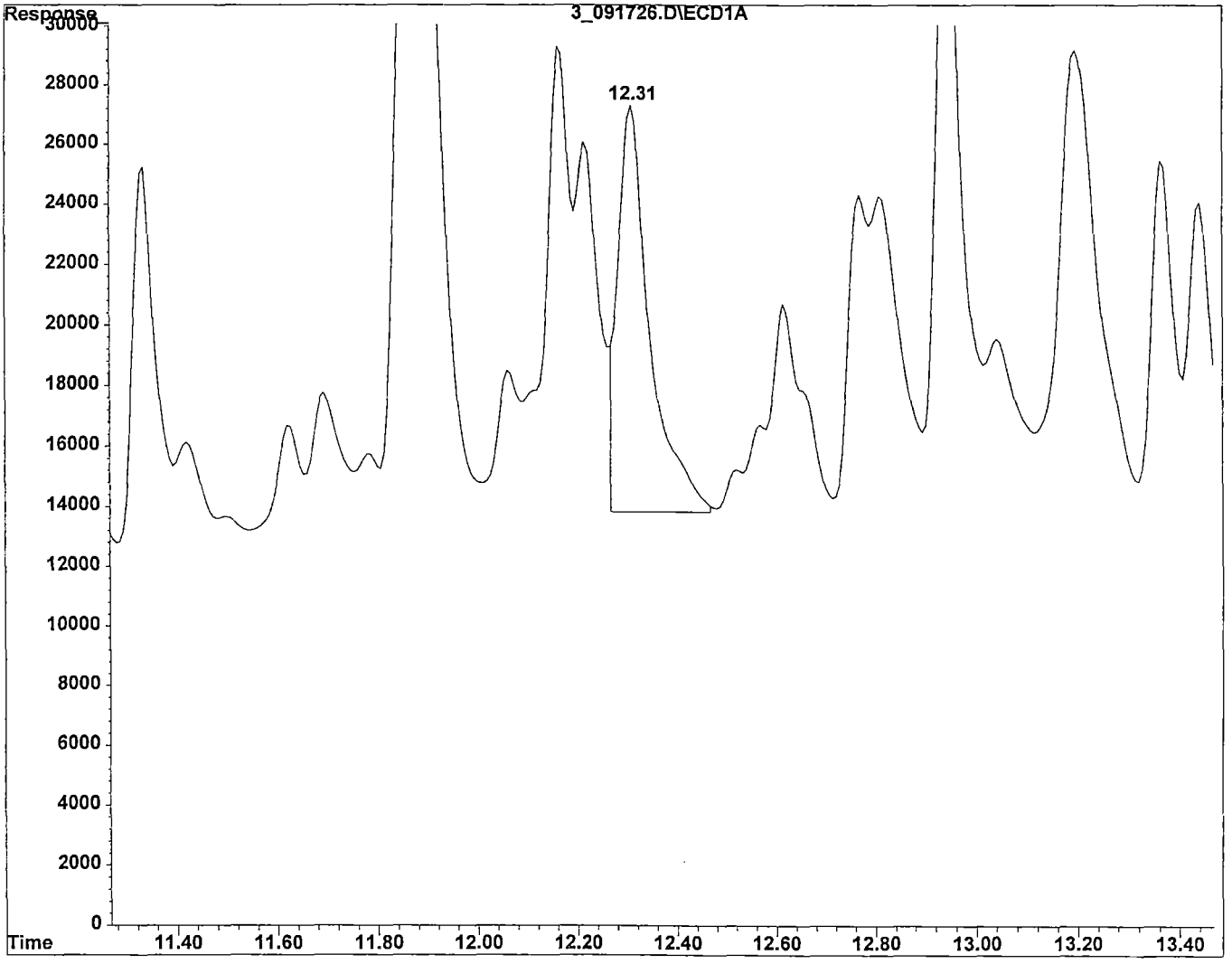
BTB 091901

Integration Time Range: 11.10 - 11.28

F:\HPCHEM\HP\3\DATA\09_17_01\3_091726.D
Report generated: Wed Sep 19 11:23:28 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091726.D
Date Acquired: 18 Sep 2001 3:43
Inst: HP_03 Operator ID: BTB
Name: 47348.06 *E03D2 *
Misc: *EPA*30.7G/5.0ML*56
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:52 2001 Quant Results File: XPCBI16.RES



OK 9-25-01 GAP

Aroclor-1242 {5} 12.31min area: 592036 m

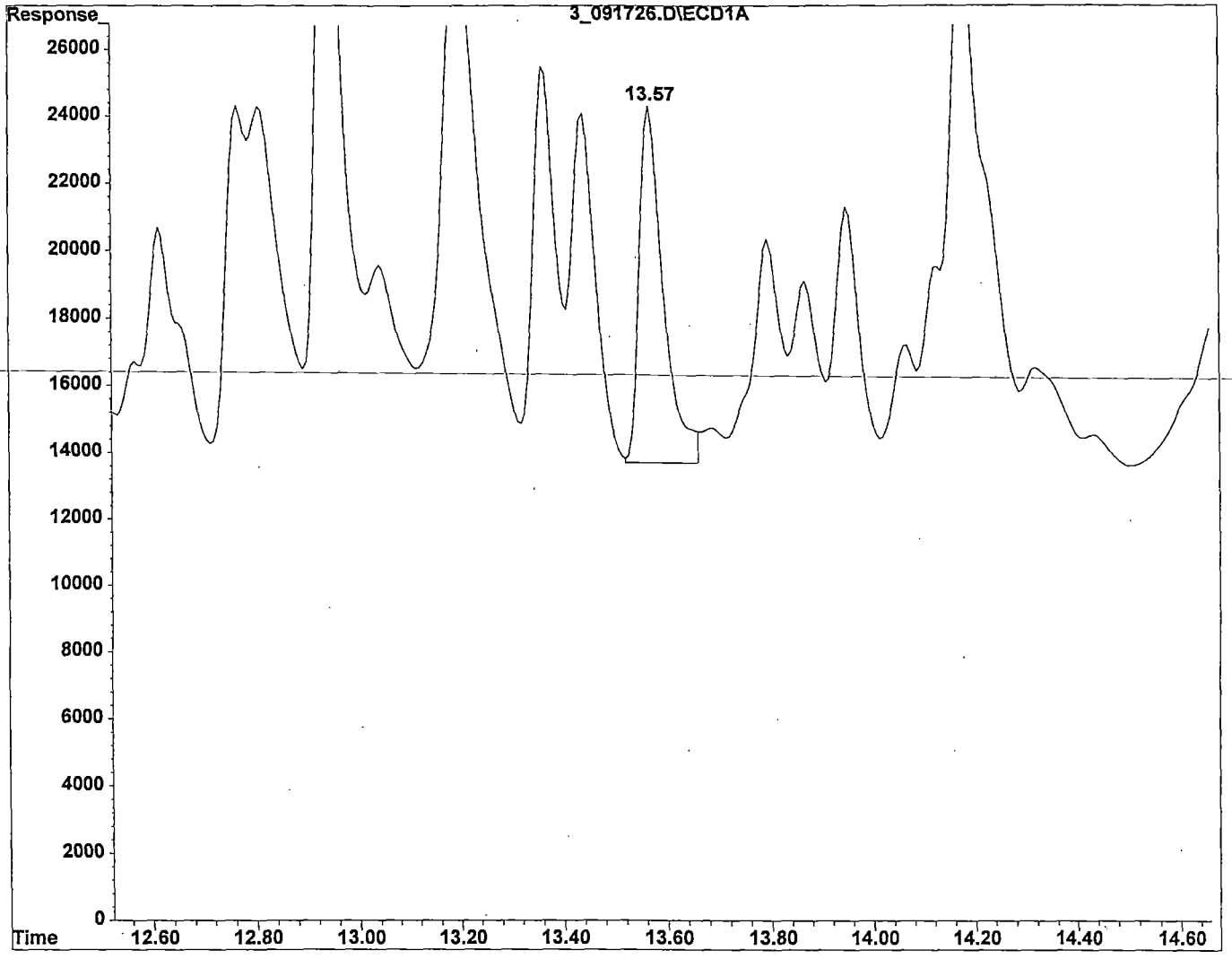
Integration Time Range: 12.27 - 12.47

BTB 09/19/01

F:\HPCHEM\HP\3\DATA\09_17_01\3_091726.D
Report generated: Wed Sep 19 11:23:29 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091726.D
Date Acquired: 18 Sep 2001 3:43
Inst: HP_03 Operator ID: BTB
Name: 47348.06 *E03D2 *
Misc: *EPA*30.7G/5.0ML*56
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:52 2001 Quant Results File: XPCBI16.RES



OK 9-25-01

Aroclor-1260 {2} 13.57min area: 338304 m

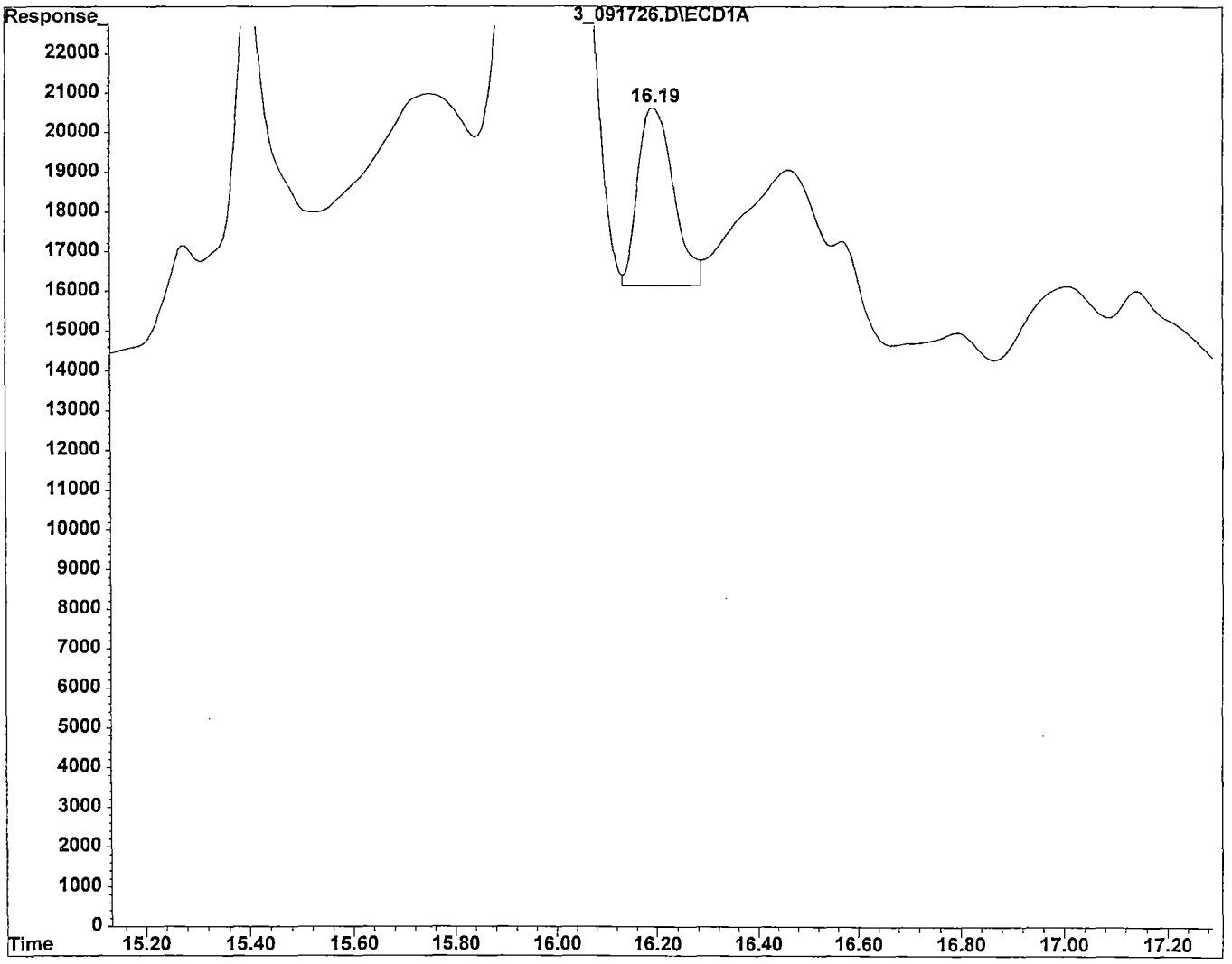
BTB 09/19/01

Integration Time Range: 13.52 - 13.66

F:\HPCHEM\HP\3\DATA\09_17_01\3_091726.D
Report generated: Wed Sep 19 11:23:29 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091726.D
Date Acquired: 18 Sep 2001 3:43
Inst: HP_03 Operator ID: BTB
Name: 47348.06 *E03D2 *
Misc: *EPA*30.7G/5.0ML*56
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:52 2001 Quant Results File: XPCBI16.RES



Aroclor-1260 {4} 16.19min area: 218880 m

OK 9-25-01

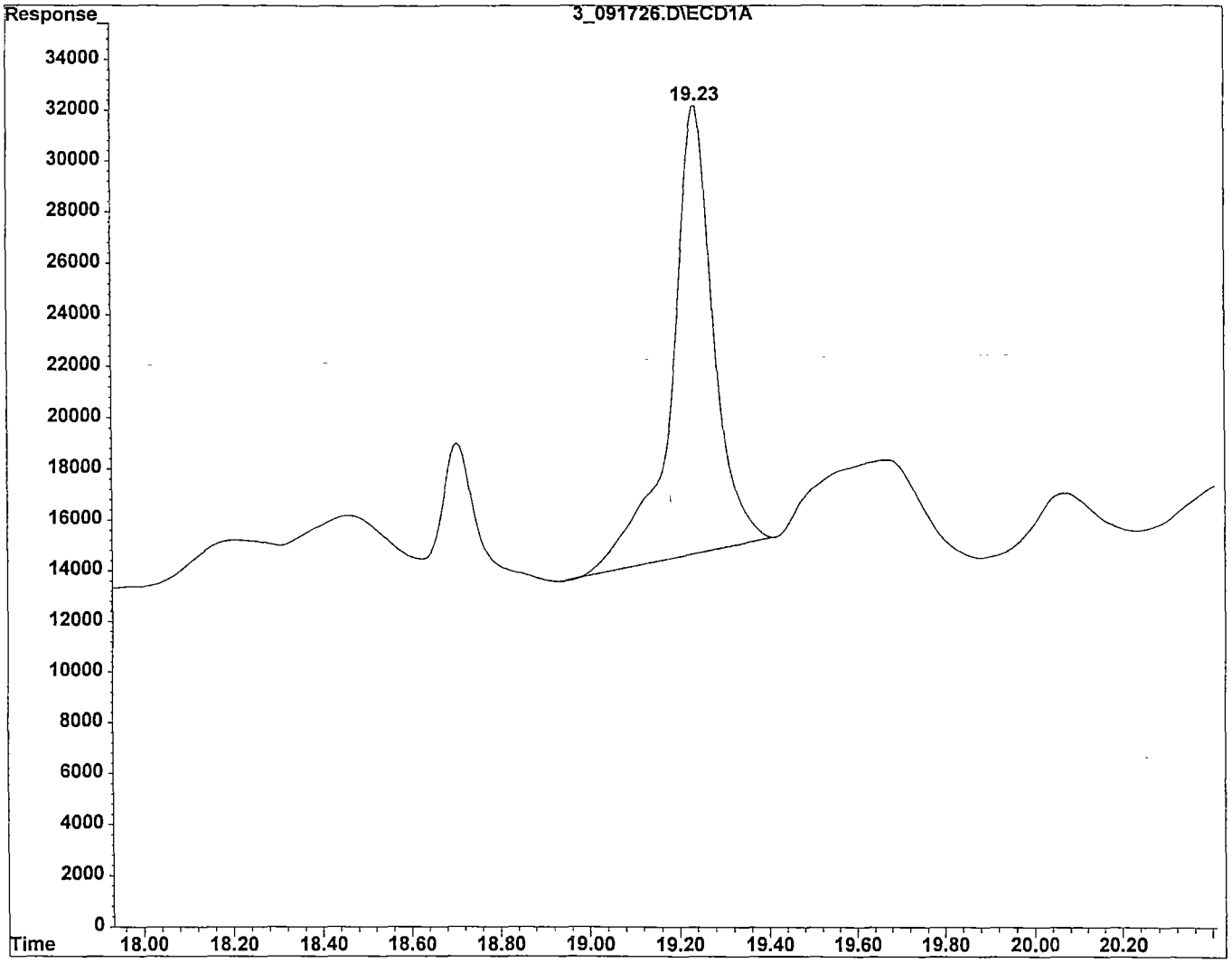
Integration Time Range: 16.13 - 16.29

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091726.D
Report generated: Wed Sep 19 11:23:30 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091726.D
Date Acquired: 18 Sep 2001 3:43
Inst: HP_03 Operator ID: BTB
Name: 47348.06 *E03D2 *
Misc: *EPA*30.7G/5.0ML*56
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:52 2001 Quant Results File: XPCBI16.RES



DCB 19.24min area: 1140940 m

BTB 091901

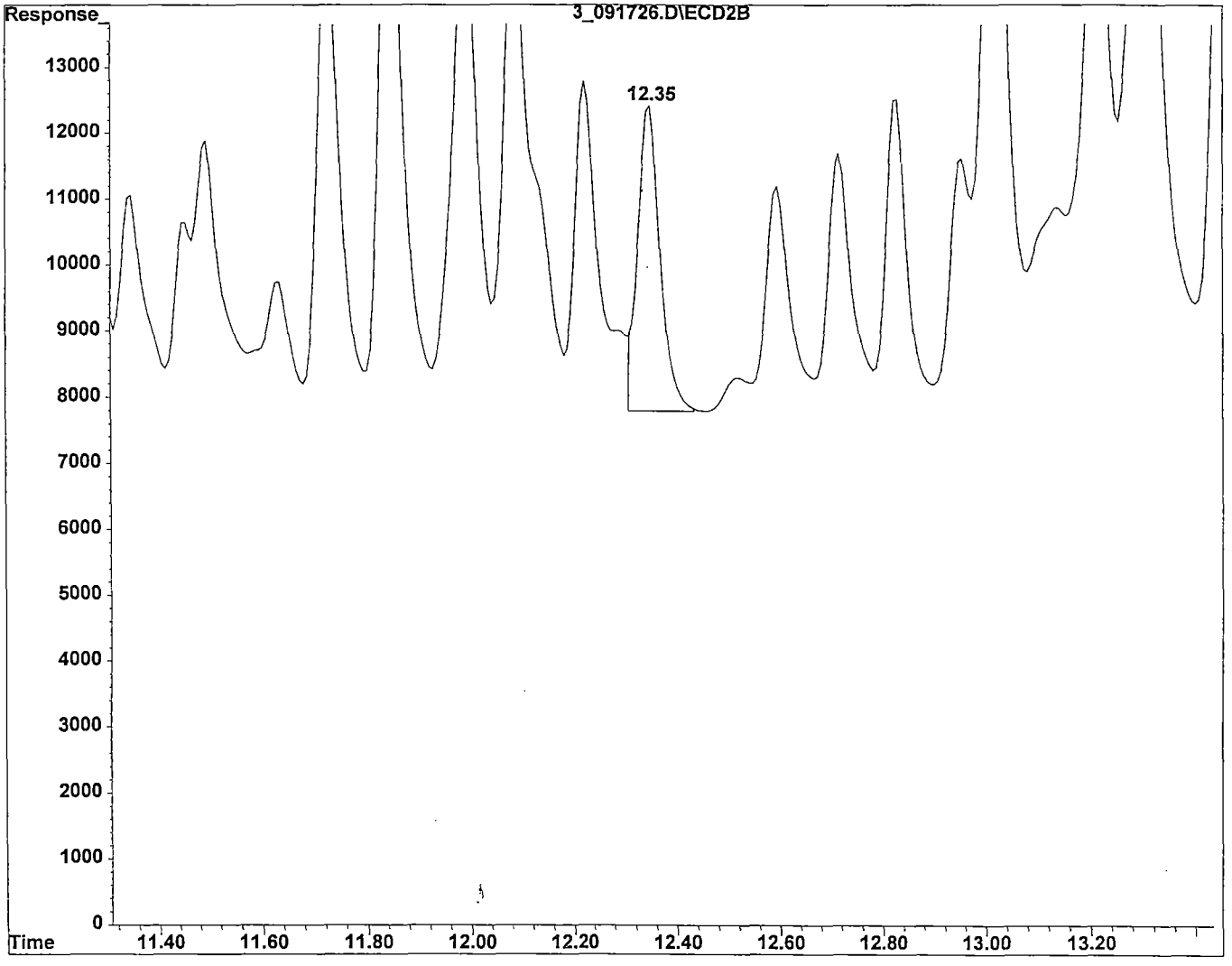
OK 9-25-01

Integration Time Range: 18.93 - 19.41

F:\HPCHEM\HP\3\DATA\09_17_01\3_091726.D
Report generated: Wed Sep 19 11:23:30 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091726.D
Date Acquired: 18 Sep 2001 3:43
Inst: HP_03 Operator ID: BTB
Name: 47348.06 *E03D2 *
Misc: *EPA*30.7G/5.0ML*56
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:52 2001 Quant Results File: XPCBI16.RES



Aroclor-1242 {5} #2 12.35min area: 137384 m

Integration Time Range: 12.31 - 12.43

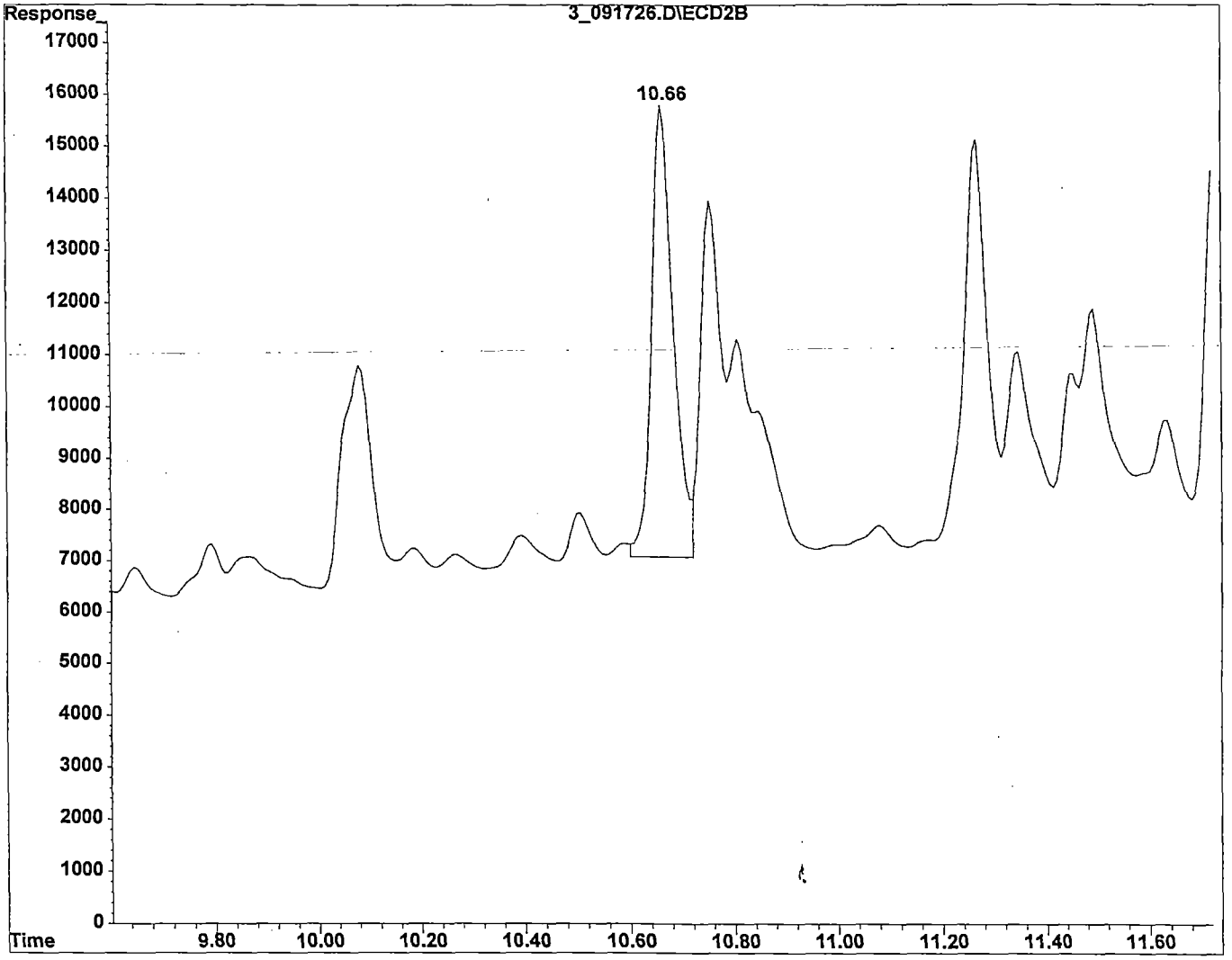
OK 9-25-01 GLP

BTB 09/19/01

F:\HPCHEM\HP\3\DATA\09_17_01\3_091726.D
Report generated: Wed Sep 19 11:23:31 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091726.D
Date Acquired: 18 Sep 2001 3:43
Inst: HP_03 Operator ID: BTB
Name: 47348.06 *E03D2 *
Misc: *EPA*30.7G/5.0ML*56
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:52 2001 Quant Results File: XPCBI16.RES



OK 9-26-01 EA

Aroclor-1254 #2 10.66min area: 253912 m

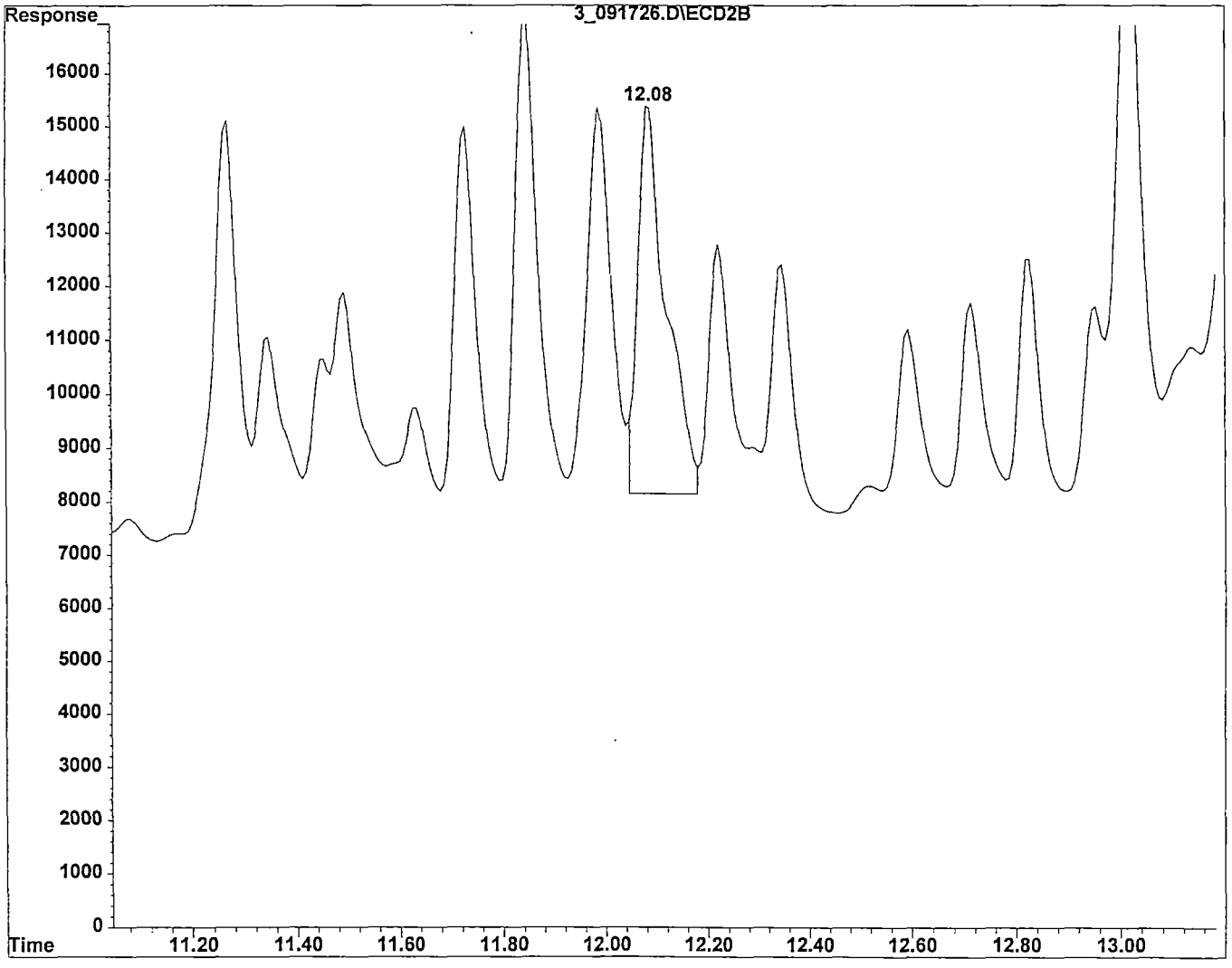
BTB 091901

Integration Time Range: 10.60 - 10.72

F:\HPCHEM\HP\3\DATA\09_17_01\3_091726.D
Report generated: Wed Sep 19 11:23:32 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091726.D
Date Acquired: 18 Sep 2001 3:43
Inst: HP_03 Operator ID: BTB
Name: 47348.06 *E03D2 *
Misc: *EPA*30.7G/5.0ML*56
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:52 2001 Quant Results File: XPCBI16.RES



Aroclor-1254 {2} #2 12.08min area: 276700 m

Integration Time Range: 12.05 - 12.18

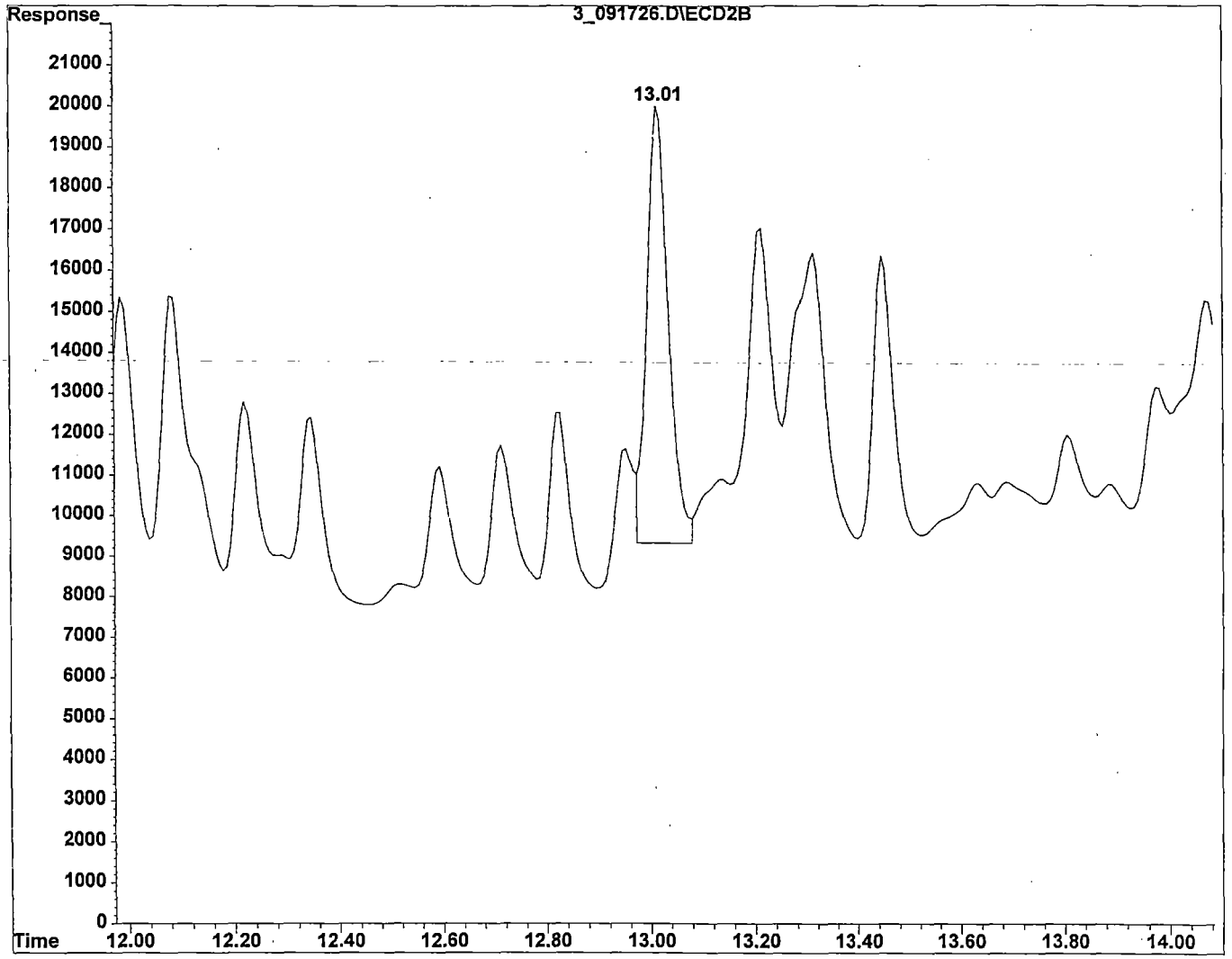
OK 9-25-01

BTB
091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091726.D
Report generated: Wed Sep 19 11:23:32 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091726.D
Date Acquired: 18 Sep 2001 3:43
Inst: HP_03 Operator ID: BTB
Name: 47348.06 *E03D2 *
Misc: *EPA*30.7G/5.0ML*56
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:52 2001 Quant Results File: XPCBI16.RES



Aroclor-1254 {3} #2 13.01min area: 304504 m

Integration Time Range: 12.97 - 13.08

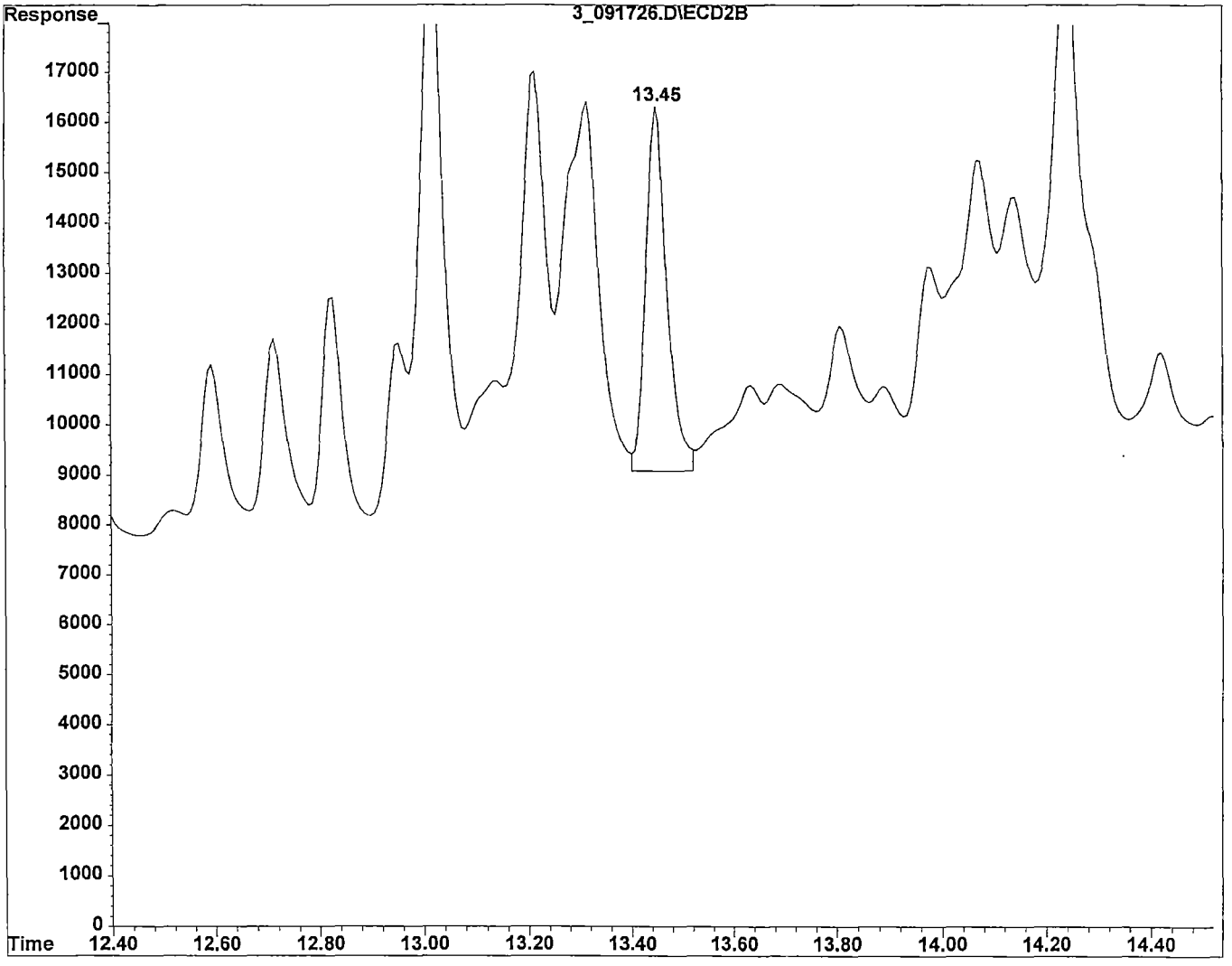
OK 9-25-01 RH

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091726.D
Report generated: Wed Sep 19 11:23:32 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091726.D
Date Acquired: 18 Sep 2001 3:43
Inst: HP_03 Operator ID: BTB
Name: 47348.06 *E03D2 *
Misc: *EPA*30.7G/5.0ML*56
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:52 2001 Quant Results File: XPCBI16.RES



ok 9-25-01

Aroclor-1254 {4} #2 13.45min area: 207440 m

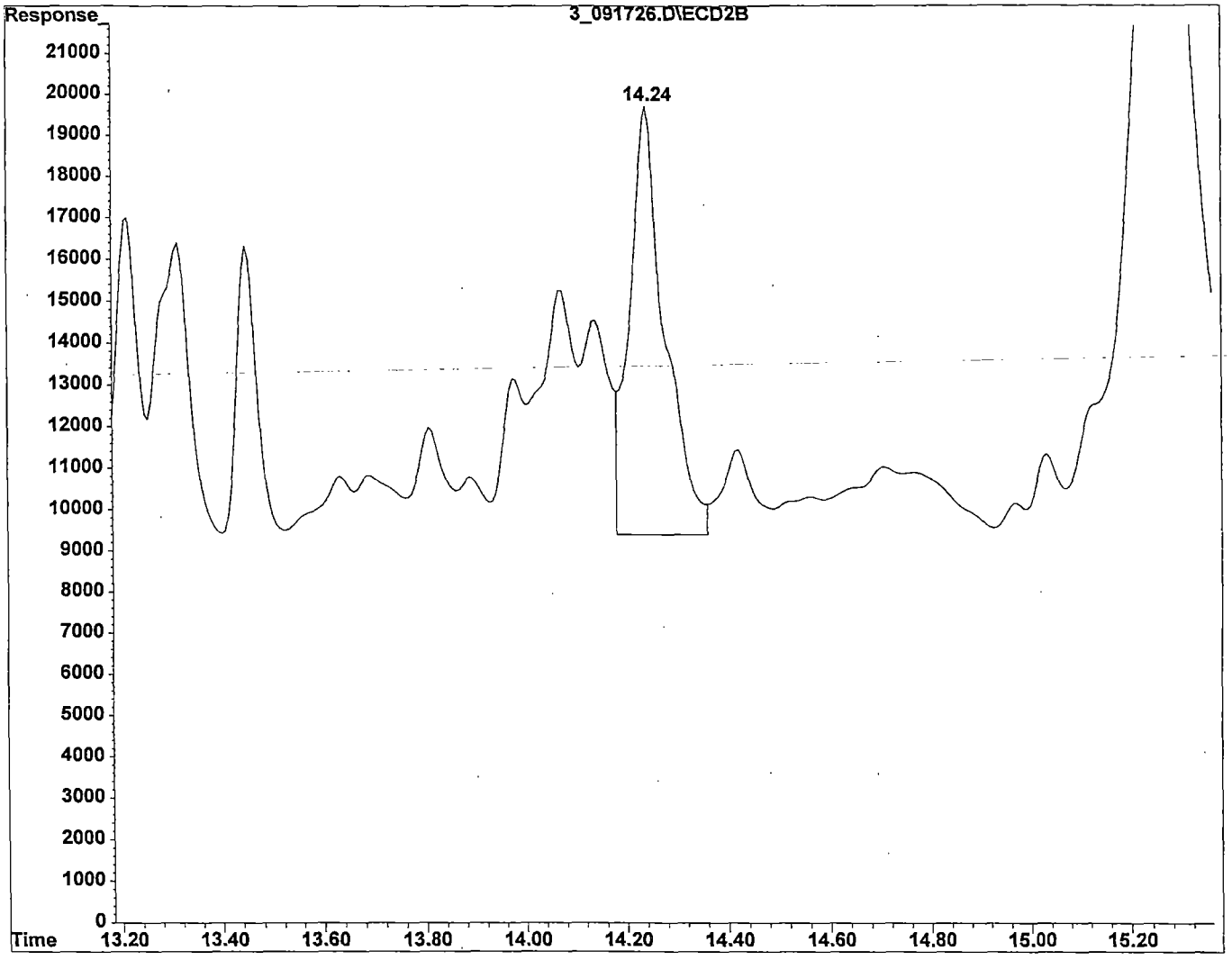
Integration Time Range: 13.40 - 13.52

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091726.D
Report generated: Wed Sep 19 11:23:33 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091726.D
Date Acquired: 18 Sep 2001 3:43
Inst: HP_03 Operator ID: BTB
Name: 47348.06 *E03D2 *
Misc: *EPA*30.7G/5.0ML*56
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:52 2001 Quant Results File: XPCBI16.RES



ok 9-25-01 [illegible]

Aroclor-1254 {5} #2 14.24min area: 492240 m

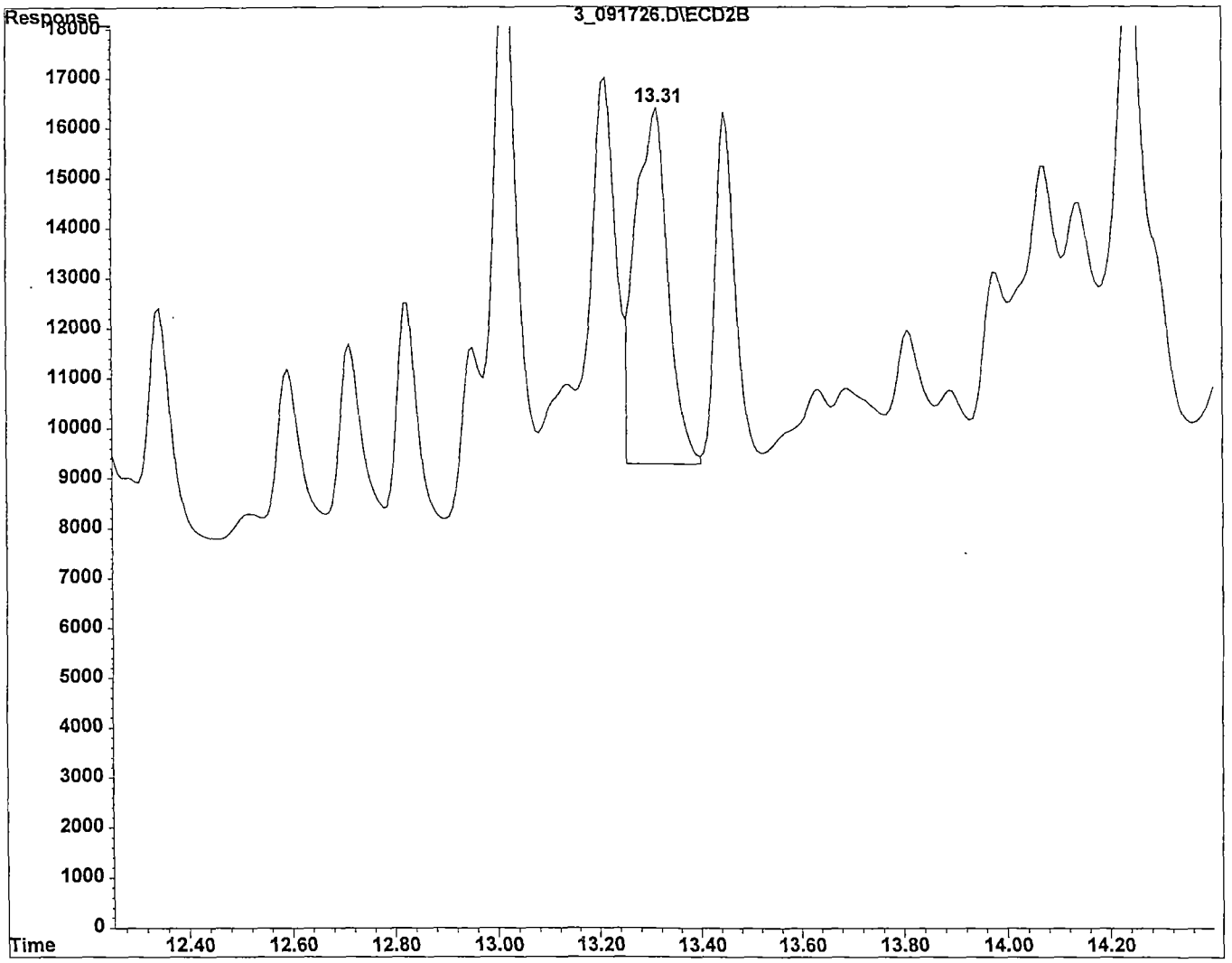
Integration Time Range: 14.18 - 14.36

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091726.D
Report generated: Wed Sep 19 11:23:34 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091726.D
Date Acquired: 18 Sep 2001 3:43
Inst: HP_03 Operator ID: BTB
Name: 47348.06 *E03D2 *
Misc: *EPA*30.7G/5.0ML*56
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:52 2001 Quant Results File: XPCBI16.RES



OK 9-25-01

Aroclor-1260 #2 13.31min area: 314940 m

Integration Time Range: 13.26 - 13.40

BTB 091901

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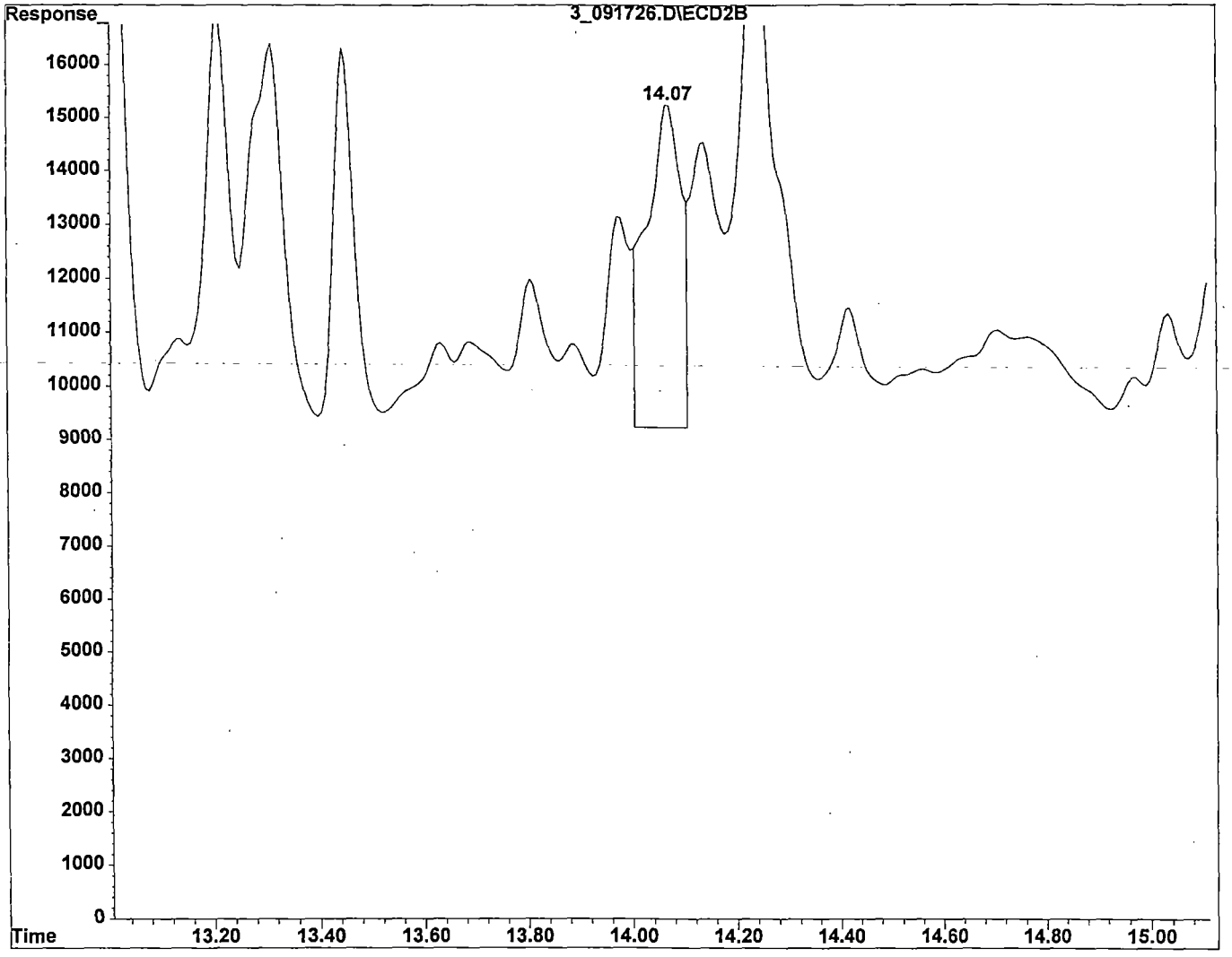
Report generated: Wed Sep 19 11:23:34 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091726.D
Date Acquired: 18 Sep 2001 3:43
Inst: HP_03 Operator ID: BTB
Name: 47348.06 *E03D2 *
Misc: *EPA*30.7G/5.0ML*56
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:52 2001 Quant Results File: XPCBI16.RES



Aroclor-1260 {2} #2 14.07min area: 277416 m

ok 9-25-01

BTB 091901

Integration Time Range: 14.01 - 14.11

F:\HPCHEM\HP\3\DATA\09_17_01\3_091726.D
Report generated: Wed Sep 19 11:23:35 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E03D3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Matrix: (soil/water) SOIL Lab Sample ID: 47348.07

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

% Moisture: 43 decanted: (Y/N) __ Date Received: 08/20/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/23/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/18/01

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	57	UJ
11104-28-2	Aroclor-1221	57	UJ
11141-16-5	Aroclor-1232	57	UJ
53469-21-9	Aroclor-1242	86	PJ
12672-29-6	Aroclor-1248	57	UJ
11097-69-1	Aroclor-1254	100	PJ
11096-82-5	Aroclor-1260	35	JP
Surrogate amount spiked		11.59	

221

TBS
10-11-01

FORM I PCB

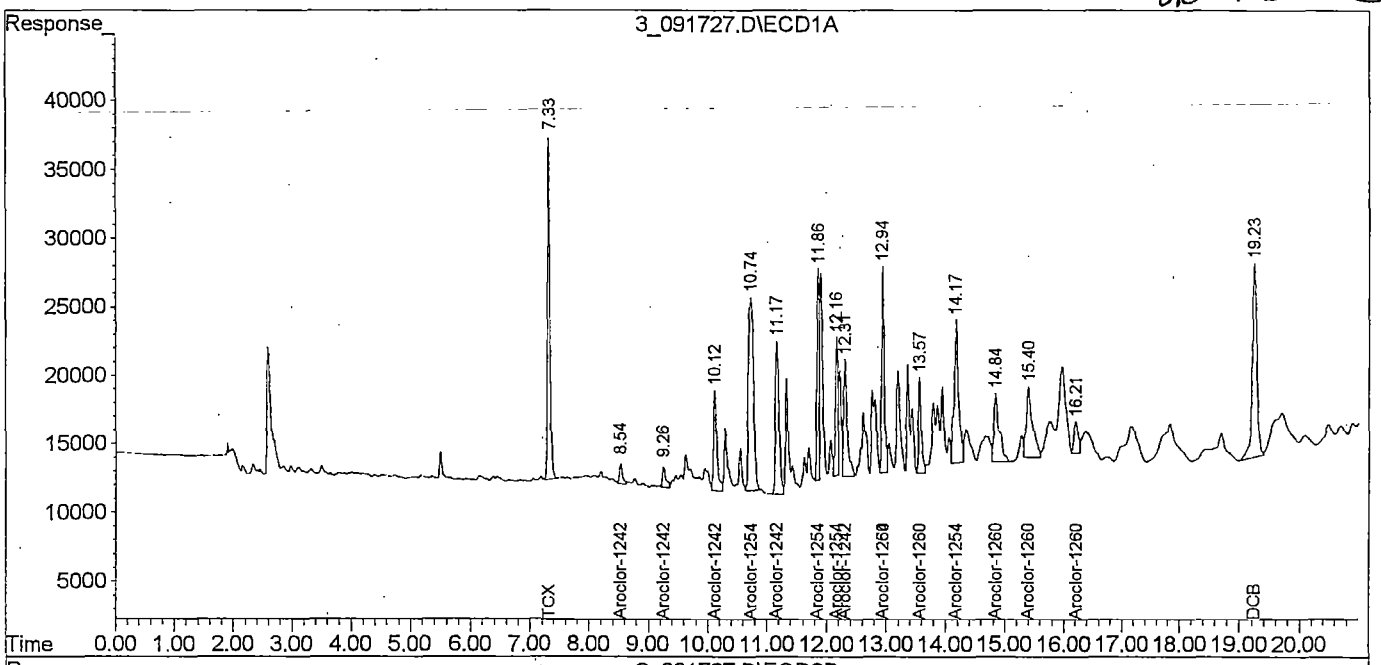
Chromatographic Report

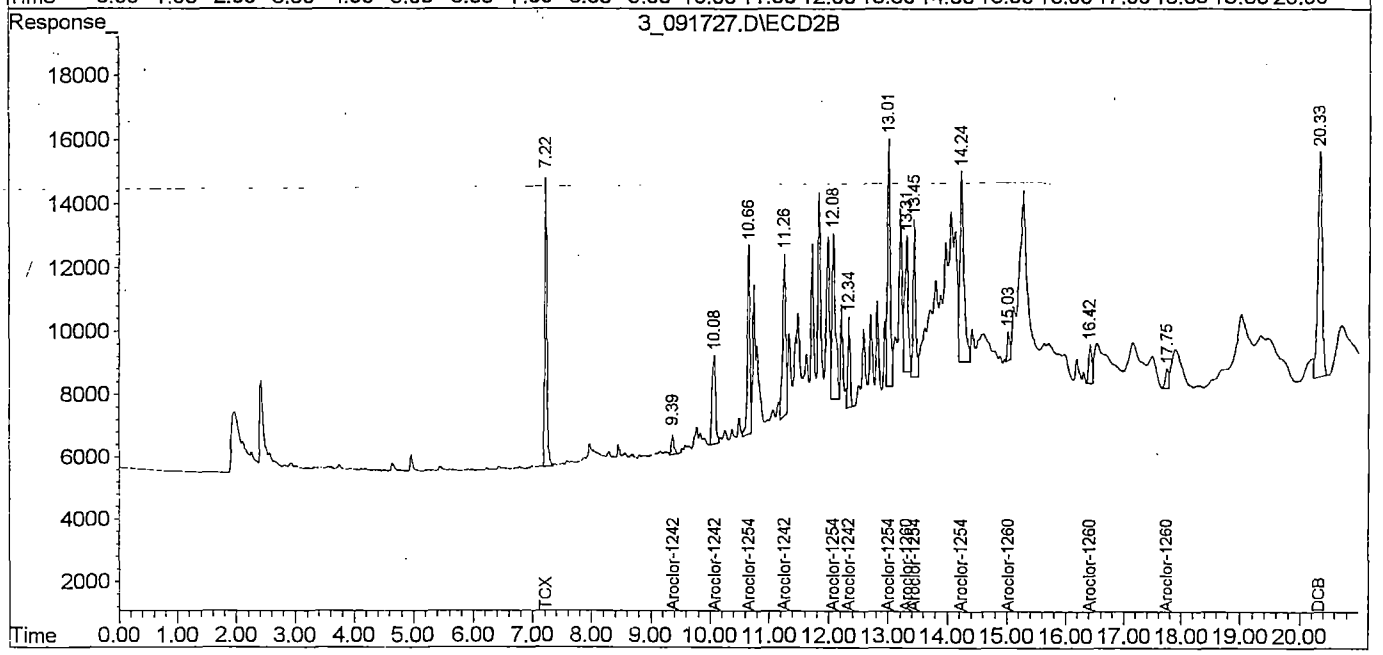
Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091727.D\ECD1A.CH Vial: 27
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091727.D\ECD2B.CH
Acq On : 18 Sep 2001 4:09 Operator: BTB
Sample : 47348.07 *E03D3 * Inst : HP_03
Misc : *EPA*30.3G/5.0ML*43 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 24 15:50 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

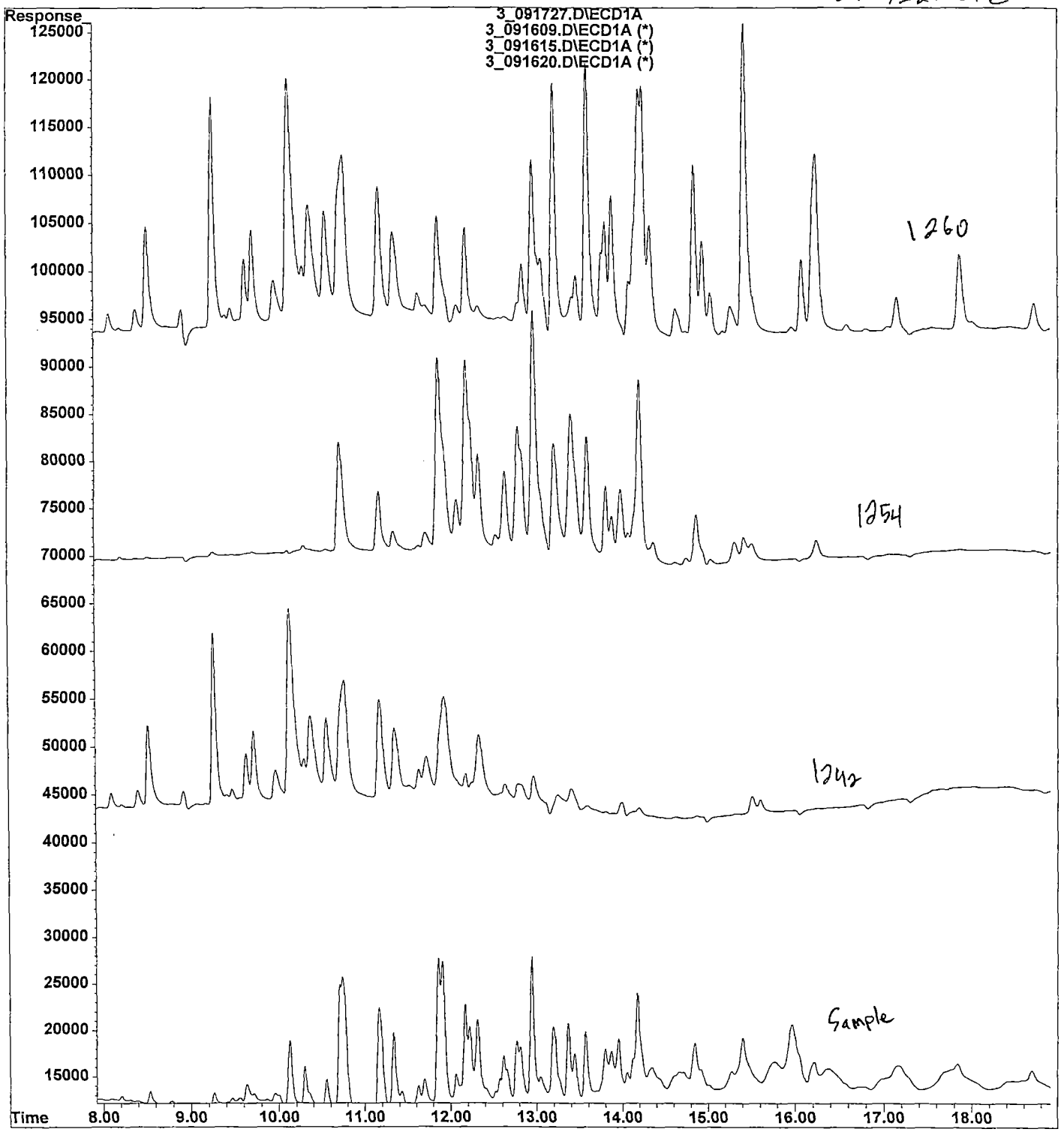
OK 9-25-01





File : F:\HPCHEM\HP\3\DATA\09_17_01\3_091727.D
Operator : BTB
Acquired : 18 Sep 2001 4:09 using AcqMethod OLM03.M
Instrument : HP_03
Sample Name: 47348.07 *E03D3 *
Misc Info : *EPA*30.3G/5.0ML*43
Vial Number: 27

OK 9-21-01



Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091727.D\ECD1A.CH Vial: 27
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091727.D\ECD2B.CH
Acq On : 18 Sep 2001 4:09 Operator: BTB
Sample : 47348.07 *E03D3 * Inst : HP_03
Misc : *EPA*30.3G/5.0ML*43 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 24 15:50 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

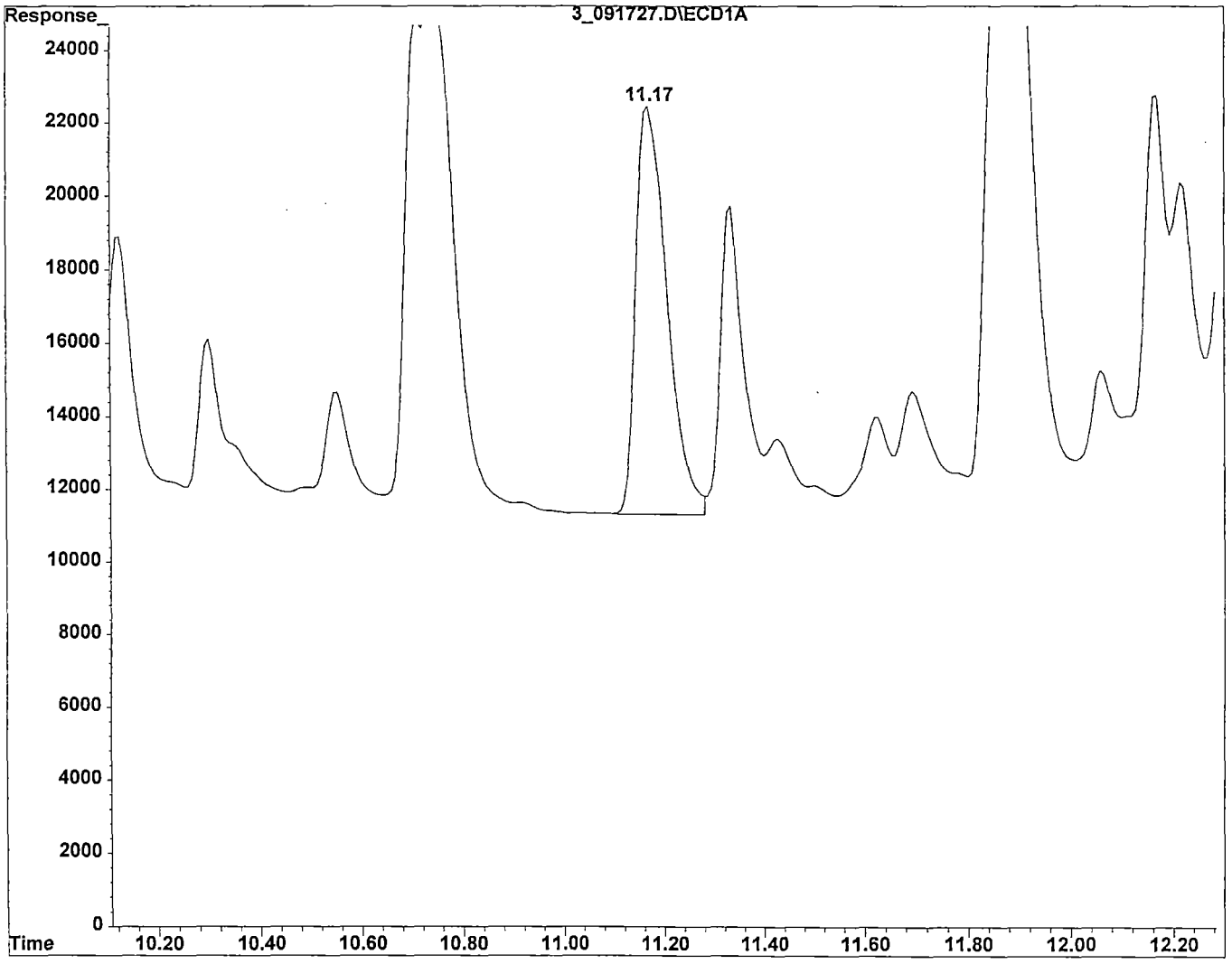
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	724243	237623	7.734	8.489
	Spiked Amount 11.580			Recovery	=	66.79%	73.31%
22)	S DCB	19.23	20.33	762422	373600	7.846m BTB	8.827
	Spiked Amount 11.580			Recovery	=	67.75% 092401	76.23%
	Target Compounds:						
7)	L4 Aroclor-1242	8.54	0.00	47834	0	24.5	N.D. d #
8)	L4 Aroclor-1242 {2}	9.26	9.39	58407	20146	17.1	17.0
9)	L4 Aroclor-1242 {3}	10.13	10.08	281953	116421	44.9	51.0
10)	L4 Aroclor-1242 {4}	11.17	11.27	484428	177348	175.6m	237.3m # BTB
11)	L4 Aroclor-1242 {5}	12.31	12.35	361416	82510	168.1m	124.4 # 092401
	Sum Aroclor-1242			1234038	396425	430.3	429.6
	Average Aroclor-1242					86.057	107.410
12)	L6 Aroclor-1254	10.74	10.66	871144	180334	249.4m	214.3
13)	L6 Aroclor-1254 {2}	11.86	12.08	395581	198568	61.1	104.8m #
14)	L6 Aroclor-1254 {3}	12.17	13.01	297729	242912	50.3	95.6m #
15)	L6 Aroclor-1254 {4}	12.94	13.45	462859	152648	67.9	108.9m #
16)	L6 Aroclor-1254 {5}	14.18	14.24	526586	269804	95.4	143.8m #
	Sum Aroclor-1254			2553900	1044266	524.1	667.3
	Average Aroclor-1254					104.817	133.459
17)	L7 Aroclor-1260	12.94	13.31	462859	182280	125.5	83.9m #
18)	L7 Aroclor-1260 {2}	13.57	0.00	225712	0	40.2m	N.D. d #
19)	L7 Aroclor-1260 {3}	14.84	15.03	315236	27536	87.9m	14.8 #
20)	L7 Aroclor-1260 {4}	15.39	16.42	388824	42600	48.2m	22.3 #
21)	L7 Aroclor-1260 {5}	16.21	17.76	126800	25638	20.6m	19.0
	Sum Aroclor-1260			1519431	278054	186.7	81.0
	Average Aroclor-1260					64.476	34.986

(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\3\DATA\09_17_01\3_091727.D
Date Acquired: 18 Sep 2001 4:09
Inst: HP_03 Operator ID: BTB
Name: 47348.07 *E03D3 *
Misc: *EPA*30.3G/5.0ML*43
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:00 2001 Quant Results File: XPCBI16.RES



GK 9.25-01

Aroclor-1242 {4} 11.17min area: 484428 m

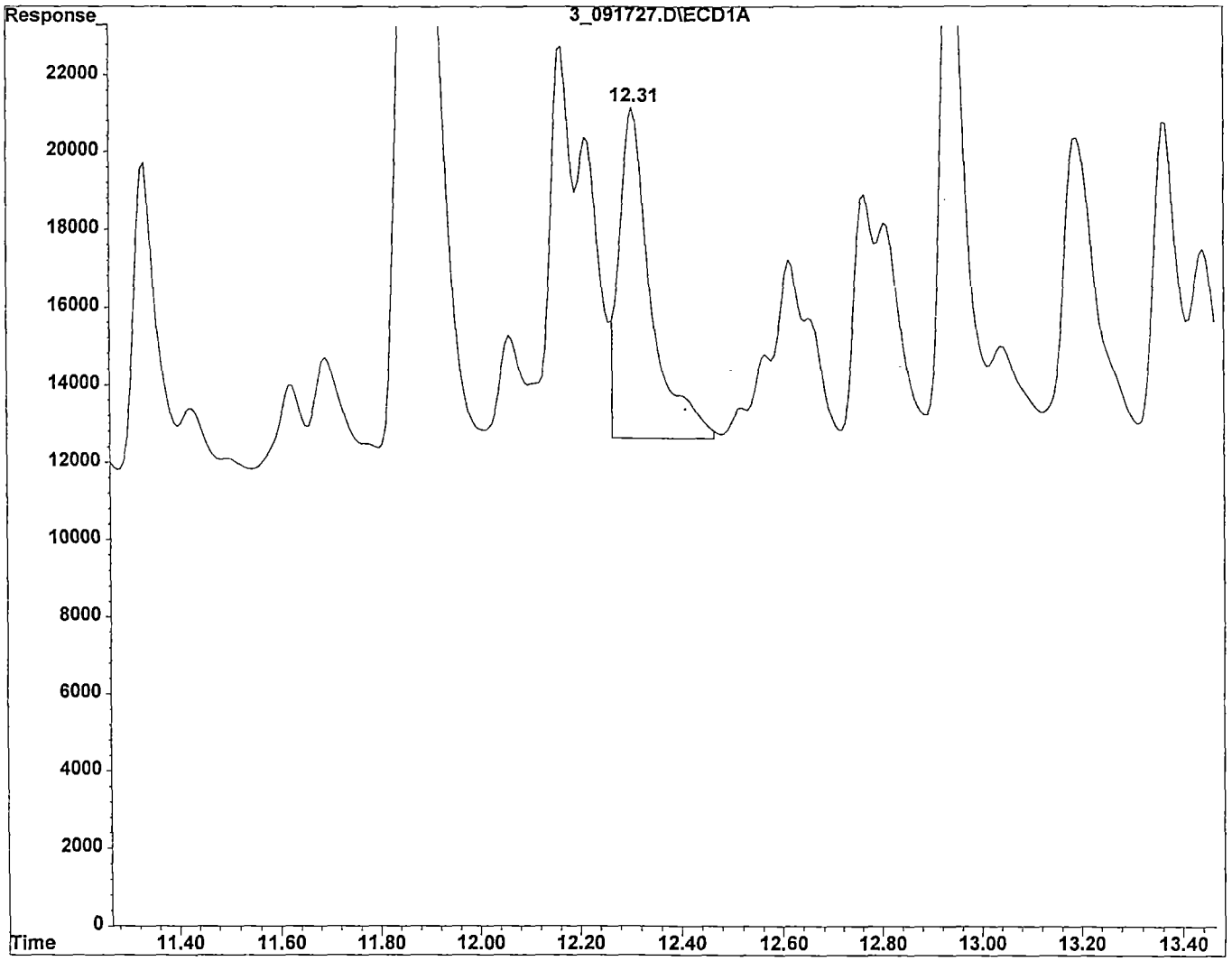
Integration Time Range: 11.11 - 11.28

BTB
091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091727.D
Report generated: Wed Sep 19 11:23:36 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091727.D
Date Acquired: 18 Sep 2001 4:09
Inst: HP_03 Operator ID: BTB
Name: 47348.07 *E03D3 *
Misc: *EPA*30.3G/5.0ML*43
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:00 2001 Quant Results File: XPCBI16.RES



OK 9-25-01

Aroclor-1242 {5} 12.31min area: 361416 m

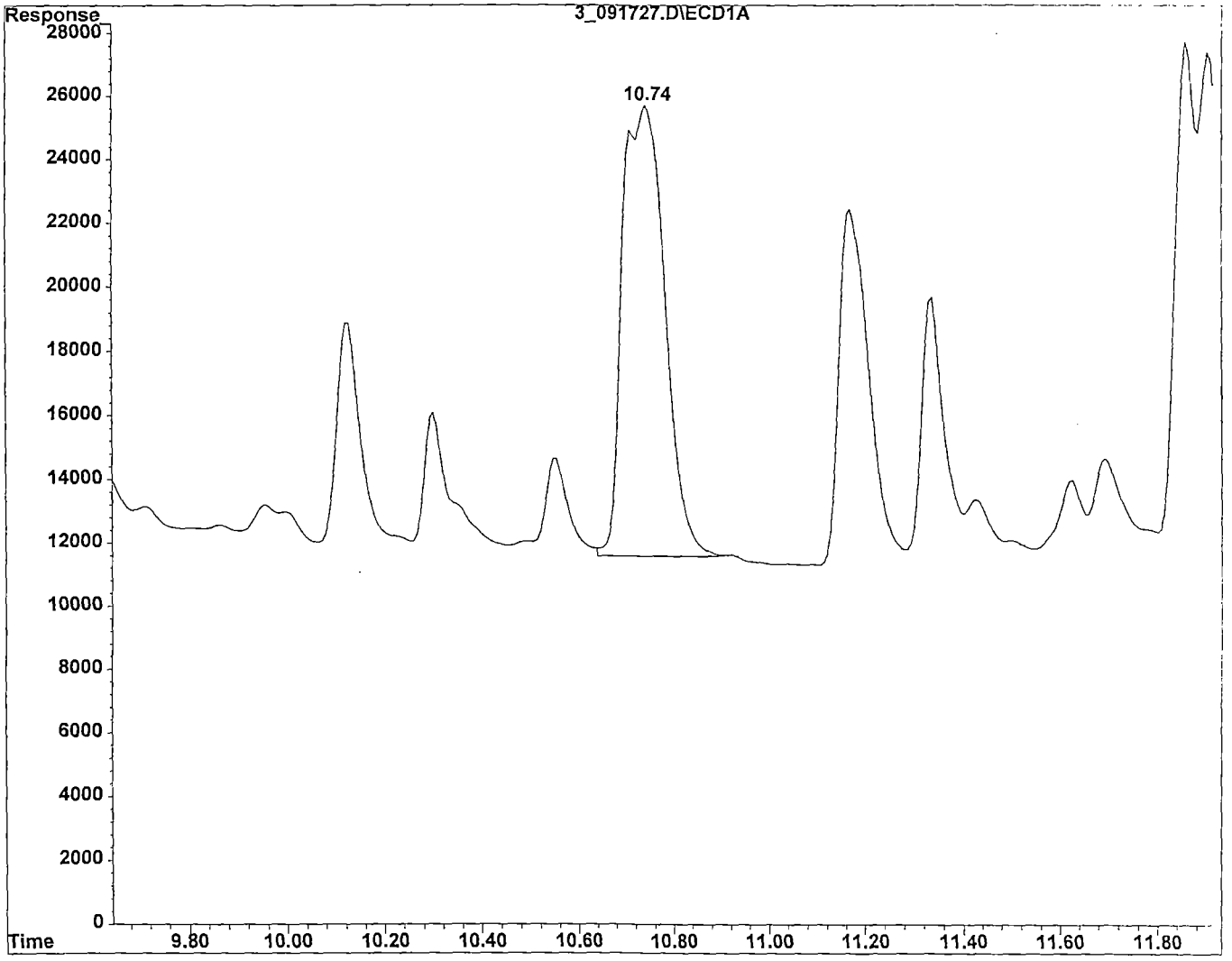
Integration Time Range: 12.26 - 12.46

BTB
091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091727.D
Report generated: Wed Sep 19 11:23:37 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091727.D
Date Acquired: 18 Sep 2001 4:09
Inst: HP_03 Operator ID: BTB
Name: 47348.07 *E03D3 *
Misc: *EPA*30.3G/5.0ML*43
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 24 15:50 2001 Quant Results File: XPCBI16.RES



OK 9-25-01

Aroclor-1254 10.74min area: 871144 m

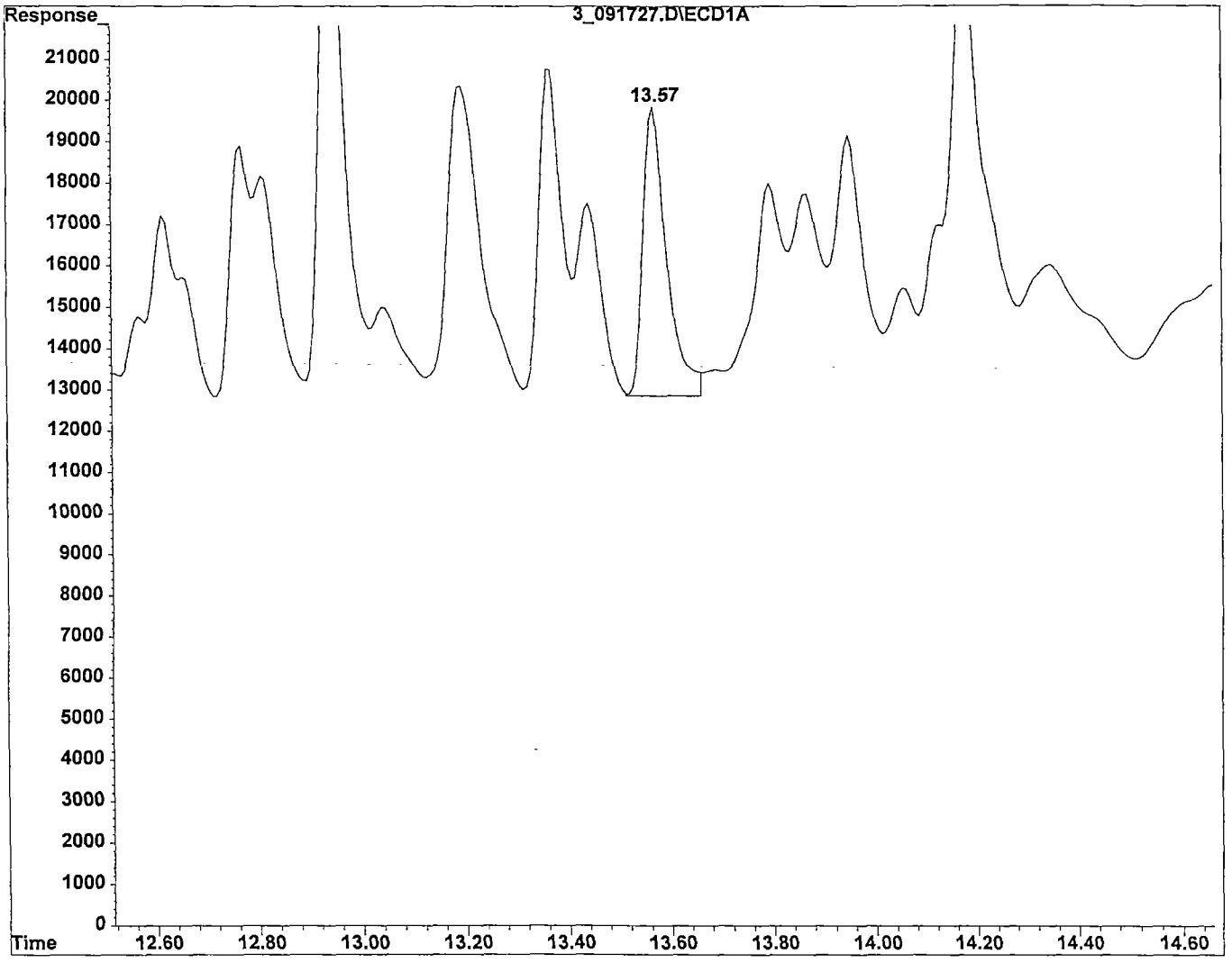
BTB

Integration Time Range: 10.64 - 10.91 092401

F:\HPCHEM\HP\3\DATA\09_17_01\3_091727.D
Report generated: Mon Sep 24 16:12:58 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091727.D
Date Acquired: 18 Sep 2001 4:09
Inst: HP_03 Operator ID: BTB
Name: 47348.07 *E03D3 *
Misc: *EPA*30.3G/5.0ML*43
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:00 2001 Quant Results File: XPCBI16.RES



Aroclor-1260 {2} 13.57min area: 225712 m

Integration Time Range: 13.52 - 13.66

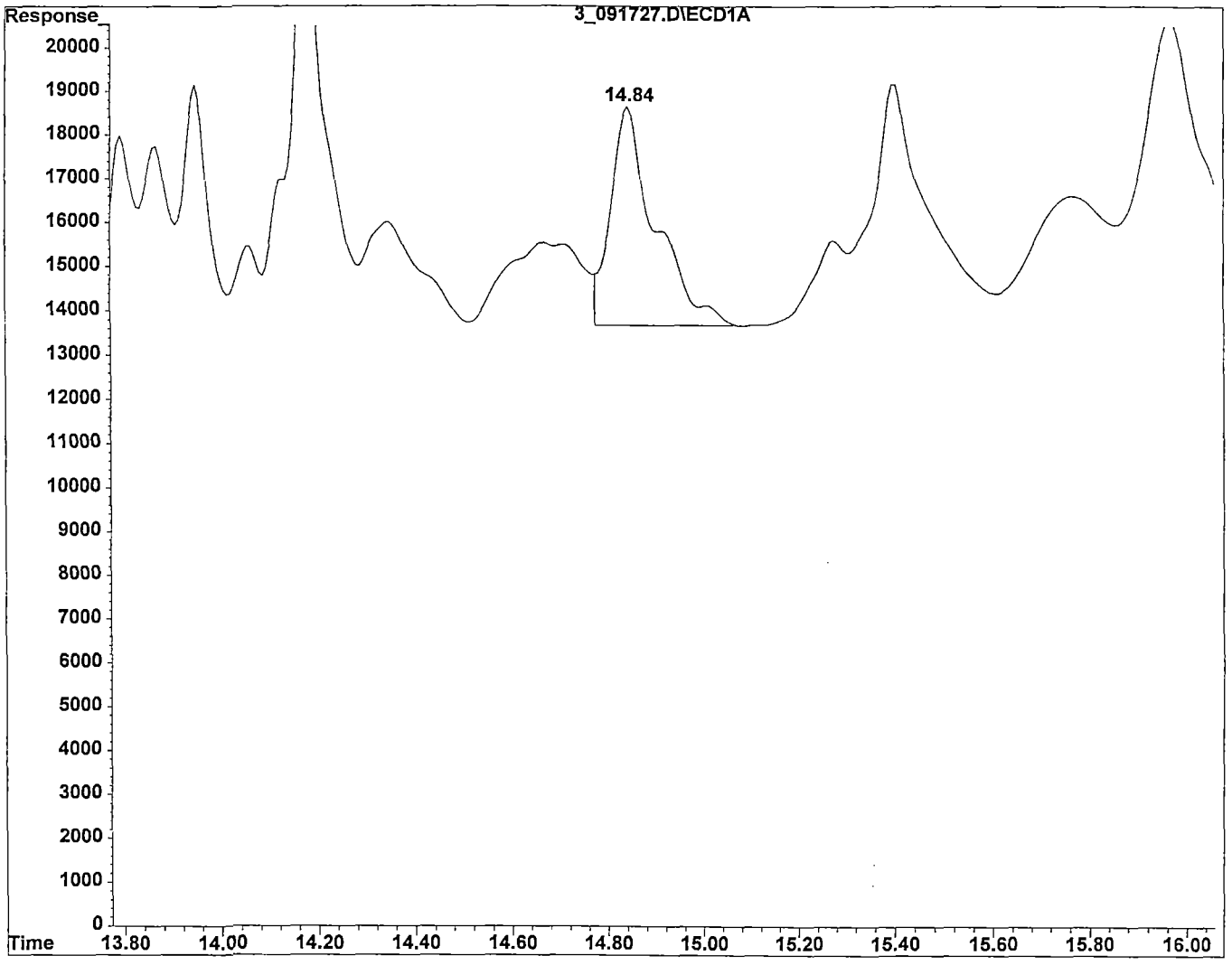
OK 9-26-01

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091727.D
Report generated: Wed Sep 19 11:23:38 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091727.D
Date Acquired: 18 Sep 2001 4:09
Inst: HP_03 Operator ID: BTB
Name: 47348.07 *E03D3 *
Misc: *EPA*30.3G/5.0ML*43
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:00 2001 Quant Results File: XPCBI16.RES



OK 9-25-01 BTB

Aroclor-1260 {3} 14.84min area: 315236 m

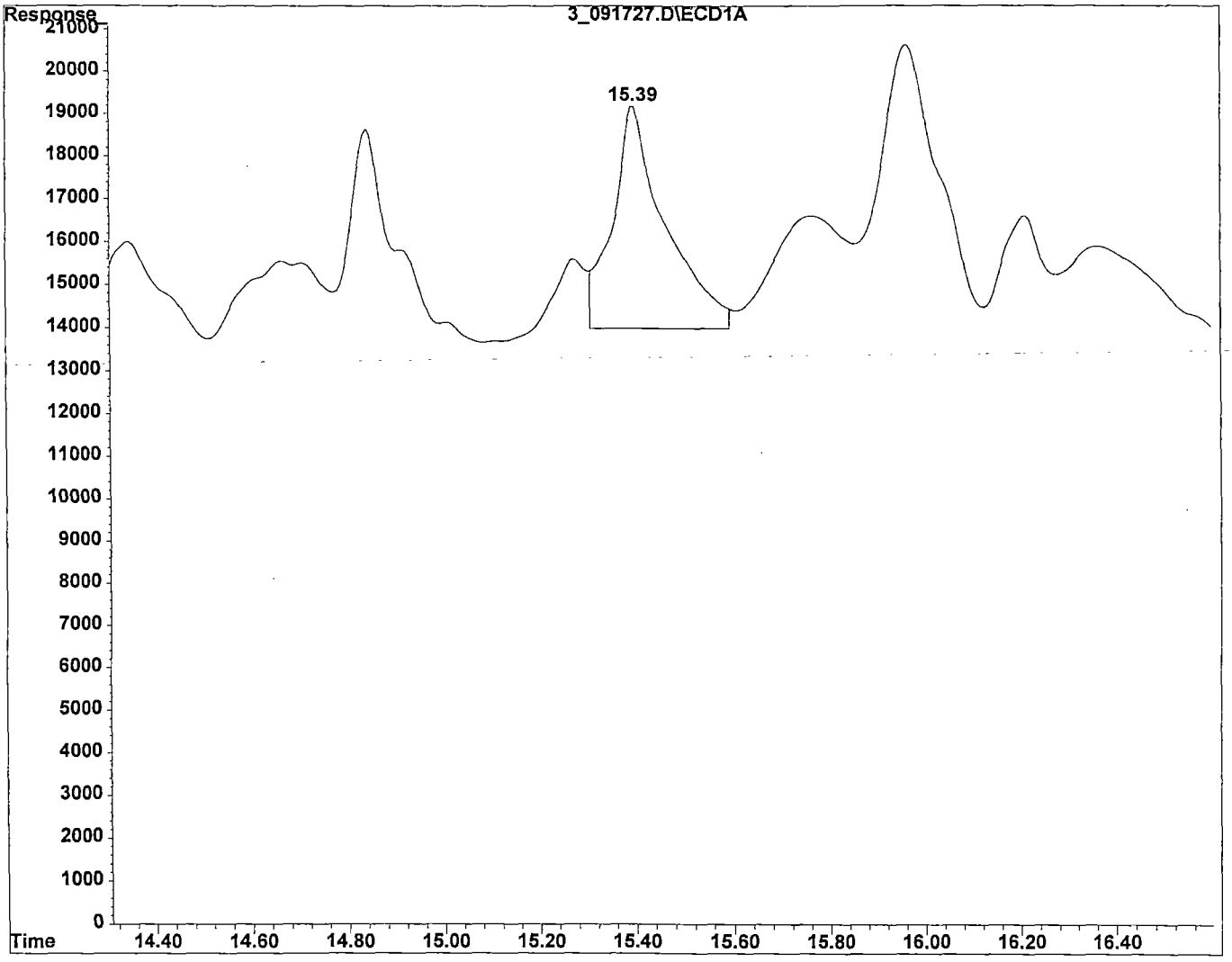
Integration Time Range: 14.77 - 15.06

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091727.D
Report generated: Wed Sep 19 11:23:38 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091727.D
Date Acquired: 18 Sep 2001 4:09
Inst: HP_03 Operator ID: BTB
Name: 47348.07 *E03D3 *
Misc: *EPA*30.3G/5.0ML*43
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:00 2001 Quant Results File: XPCBI16.RES



OK 9-25-01

Aroclor-1260 {4} 15.39min area: 388824 m

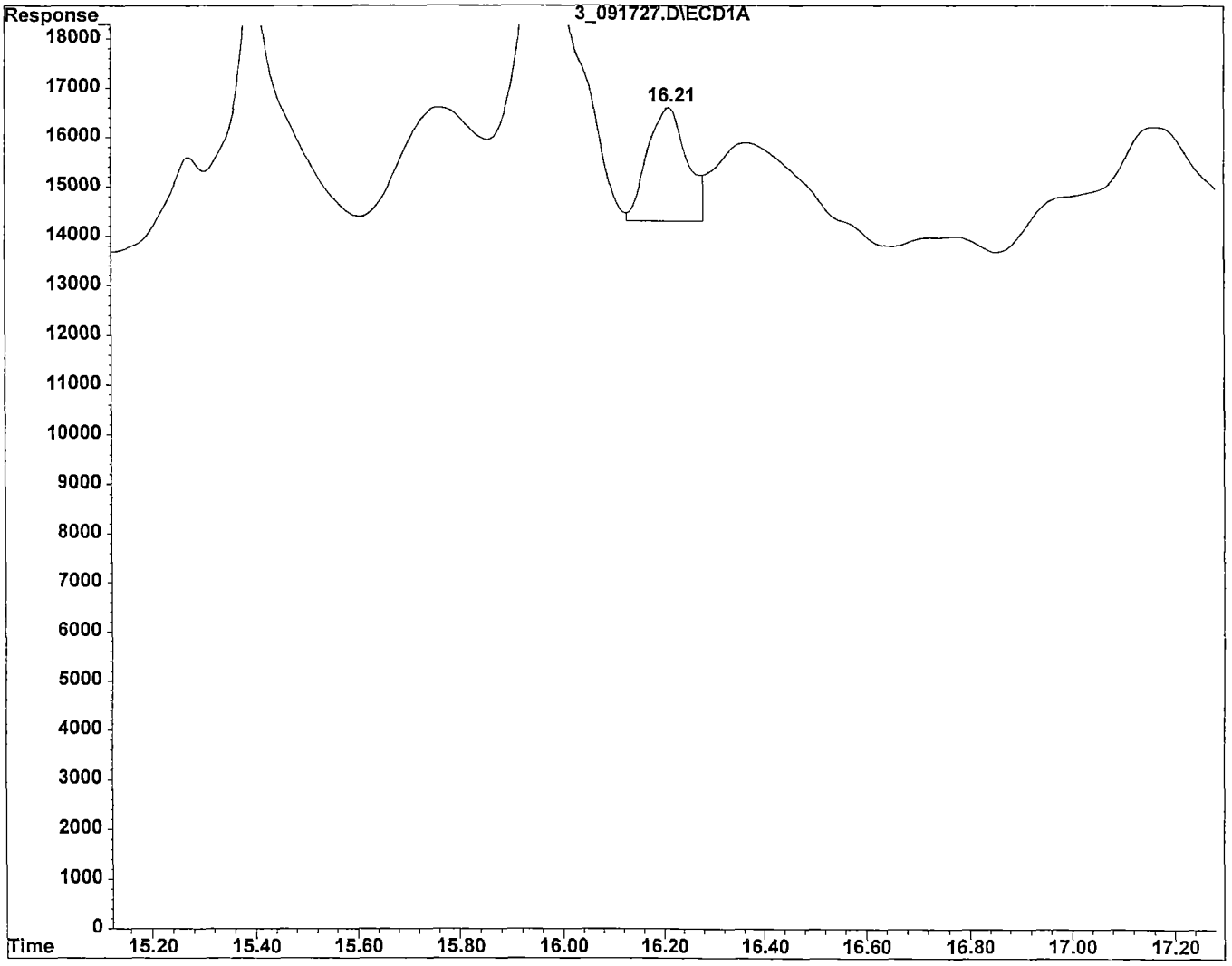
Integration Time Range: 15.30 - 15.60

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091727.D
Report generated: Wed Sep 19 11:23:39 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091727.D
Date Acquired: 18 Sep 2001 4:09
Inst: HP_03 Operator ID: BTB
Name: 47348.07 *E03D3 *
Misc: *EPA*30.3G/5.0ML*43
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:00 2001 Quant Results File: XPCBI16.RES



ok 9-25-01

Aroclor-1260 {5} 16.21min area: 126800 m

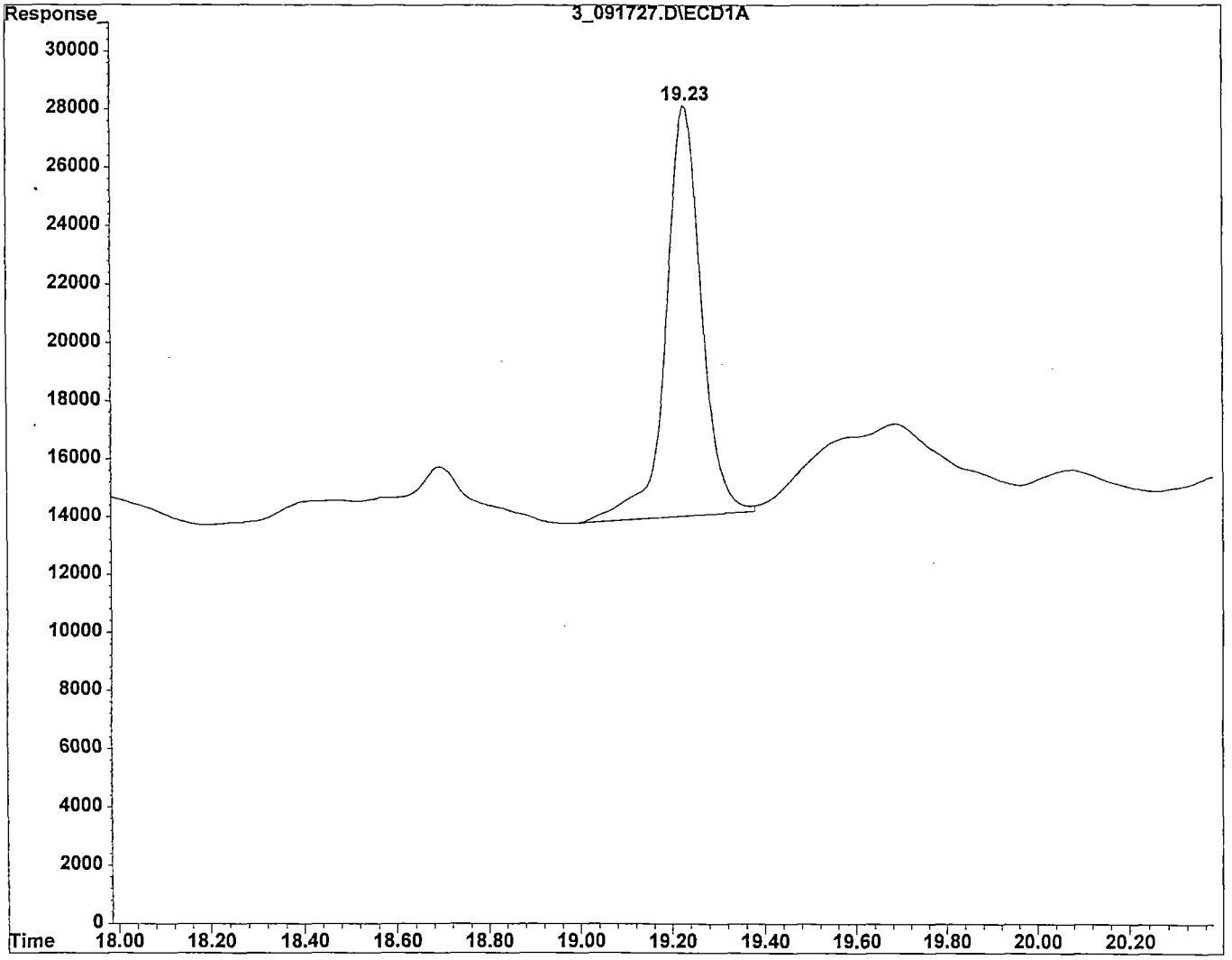
Integration Time Range: 16.12 - 16.28

BTB 09/19/01

F:\HPCHEM\HP\3\DATA\09_17_01\3_091727.D
Report generated: Wed Sep 19 11:23:39 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091727.D
Date Acquired: 18 Sep 2001 4:09
Inst: HP_03 Operator ID: BTB
Name: 47348.07 *E03D3 *
Misc: *EPA*30.3G/5.0ML*43
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:00 2001 Quant Results File: XPCBI16.RES



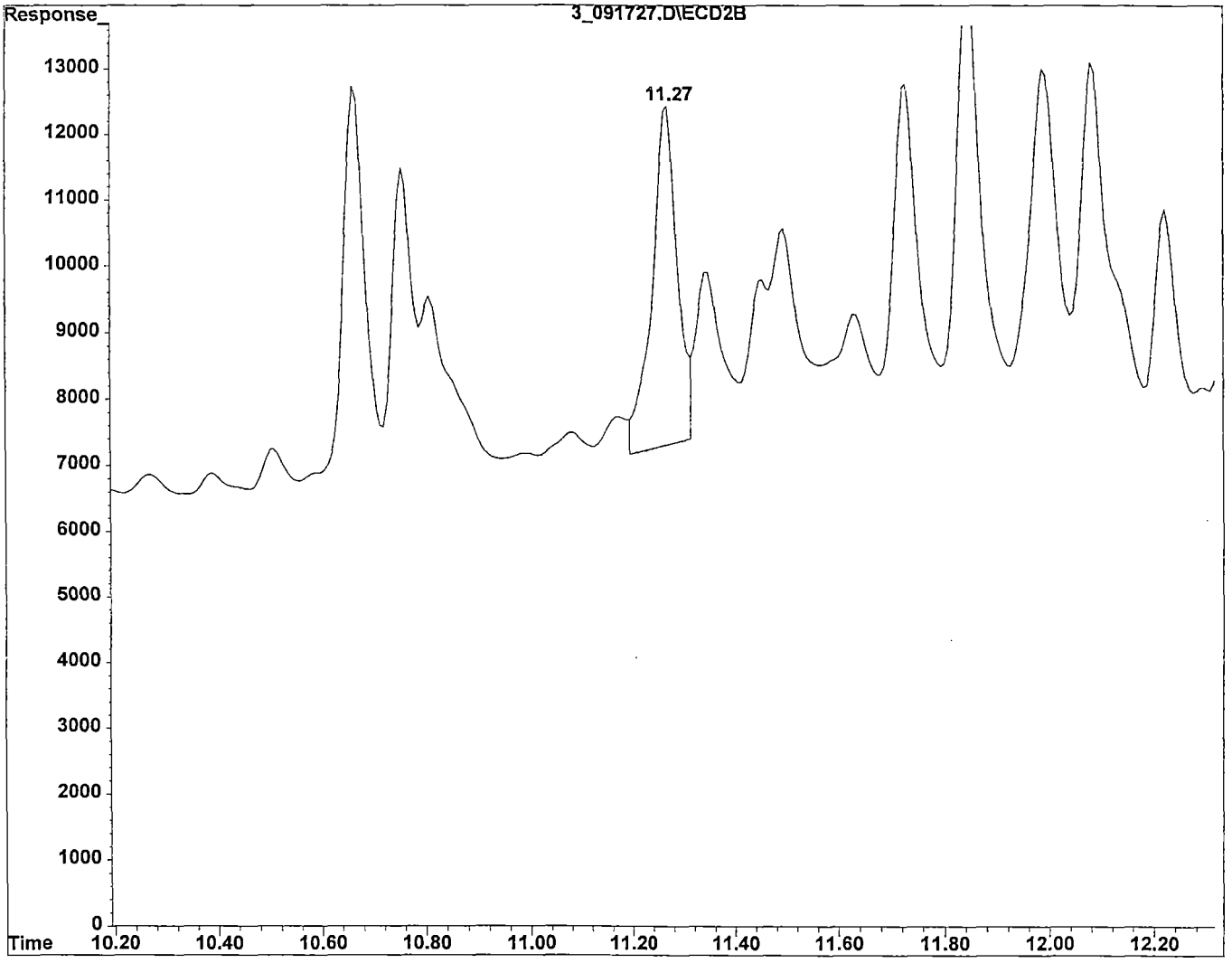
DCB 19.23min area: 762422 m BTB 091901 OK 9-25-01

Integration Time Range: 18.99 - 19.38

F:\HPCHEM\HP\3\DATA\09_17_01\3_091727.D
Report generated: Wed Sep 19 11:23:40 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091727.D
Date Acquired: 18 Sep 2001 4:09
Inst: HP_03 Operator ID: BTB
Name: 47348.07 *E03D3 *
Misc: *EPA*30.3G/5.0ML*43
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:00 2001 Quant Results File: XPCBI16.RES



Aroclor-1242 {4} #2 11.27min area: 177348 m

Integration Time Range: 11.19 - 11.31

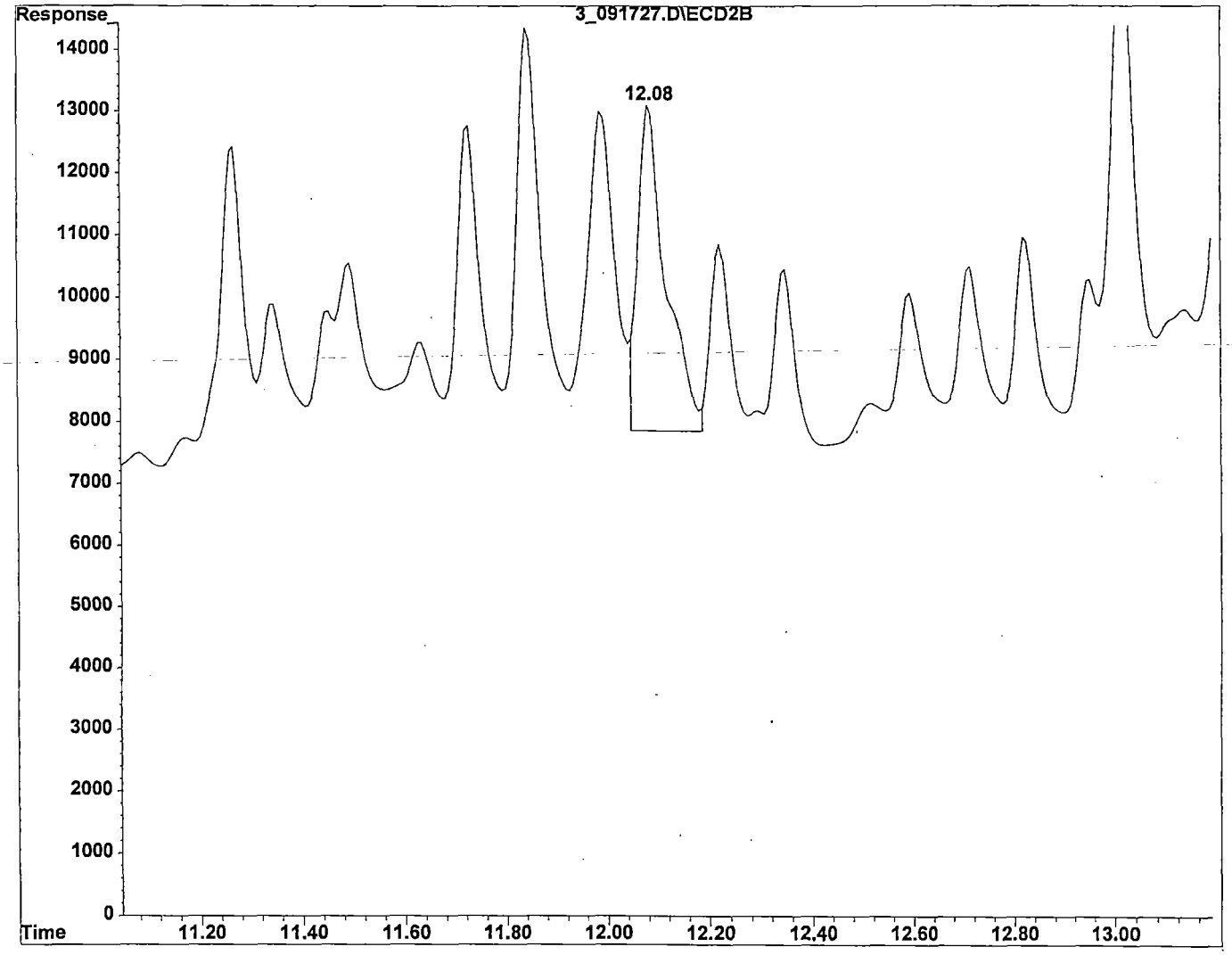
ck 9-25-01

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091727.D
Report generated: Wed Sep 19 11:23:40 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091727.D
Date Acquired: 18 Sep 2001 4:09
Inst: HP_03 Operator ID: BTB
Name: 47348.07 *E03D3 *
Misc: *EPA*30.3G/5.0ML*43
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:00 2001 Quant Results File: XPCBI16.RES



OK 9-25-01

Aroclor-1254 {2} #2 12.08min area: 198568 m

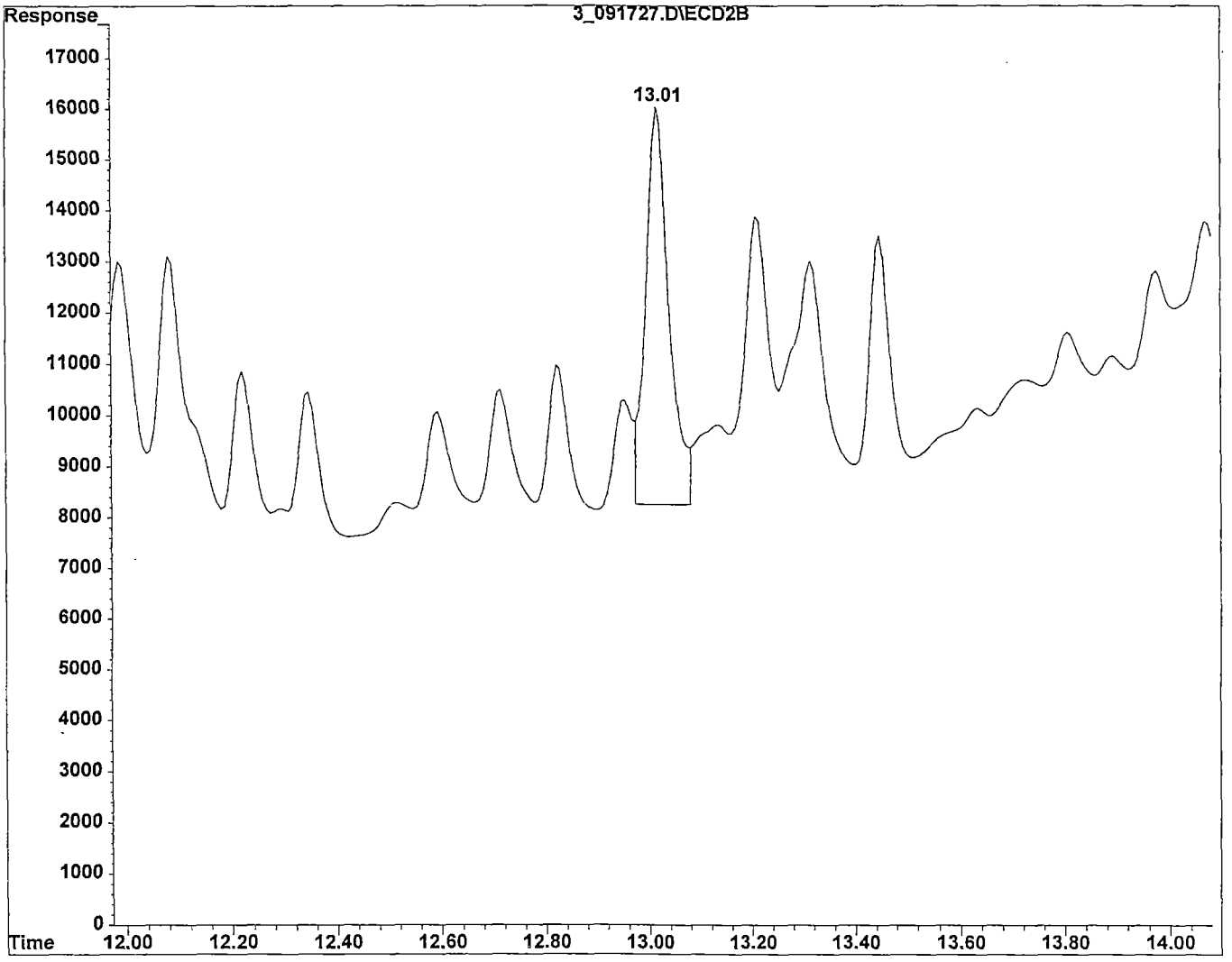
Integration Time Range: 12.04 - 12.18

BTB
091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091727.D
Report generated: Wed Sep 19 11:23:41 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091727.D
Date Acquired: 18 Sep 2001 4:09
Inst: HP_03 Operator ID: BTB
Name: 47348.07 *E03D3 *
Misc: *EPA*30.3G/5.0ML*43
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:00 2001 Quant Results File: XPCBI16.RES



Aroclor-1254 {3} #2 13.01min area: 242912 m

OK 9-25-01

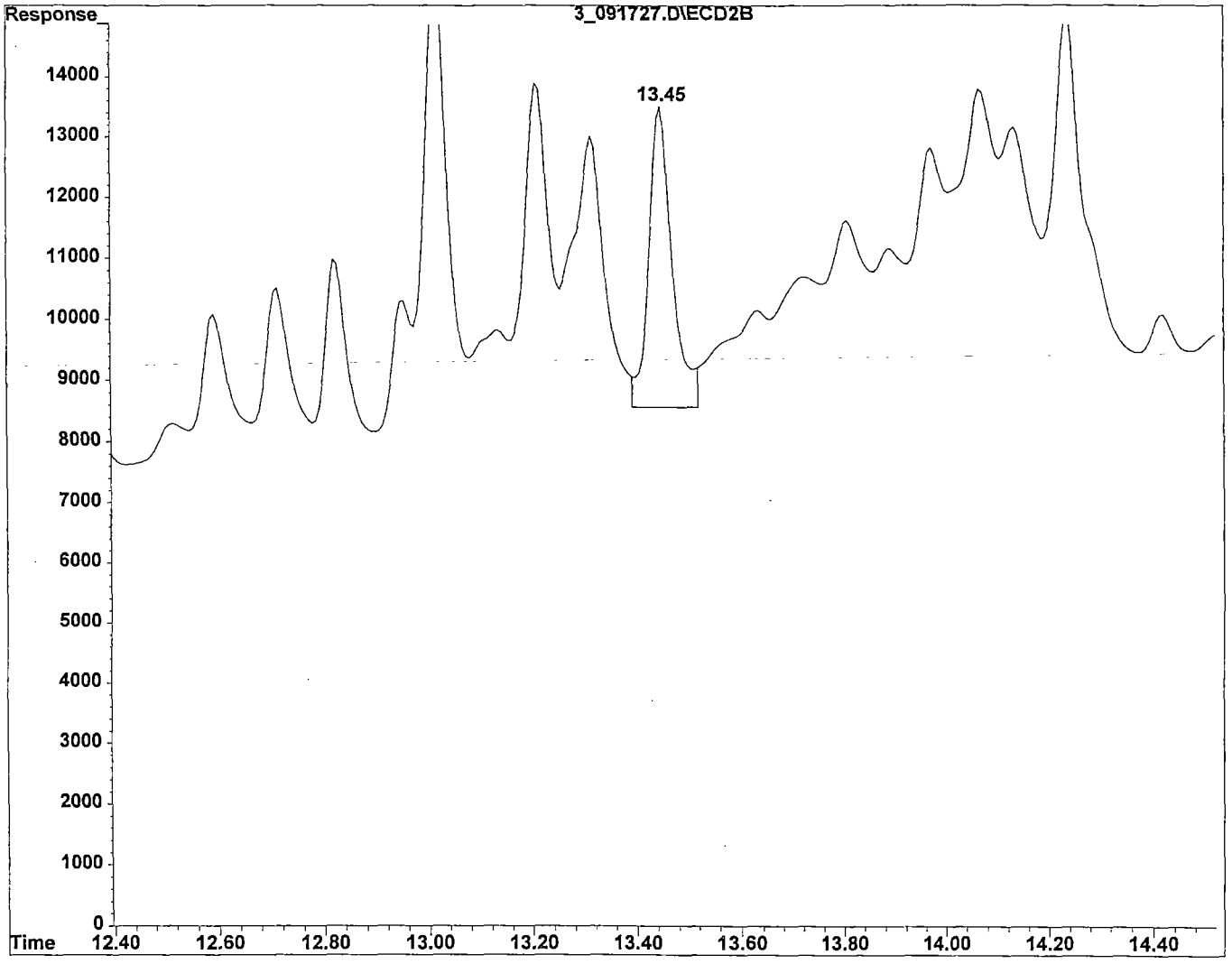
Integration Time Range: 12.97 - 13.08

BTB
091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091727.D
Report generated: Wed Sep 19 11:23:41 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091727.D
Date Acquired: 18 Sep 2001 4:09
Inst: HP_03 Operator ID: BTB
Name: 47348.07 *E03D3 *
Misc: *EPA*30.3G/5.0ML*43
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:00 2001 Quant Results File: XPCBI16.RES



OK 9-25-01

Aroclor-1254 {4} #2 13.45min area: 152648 m

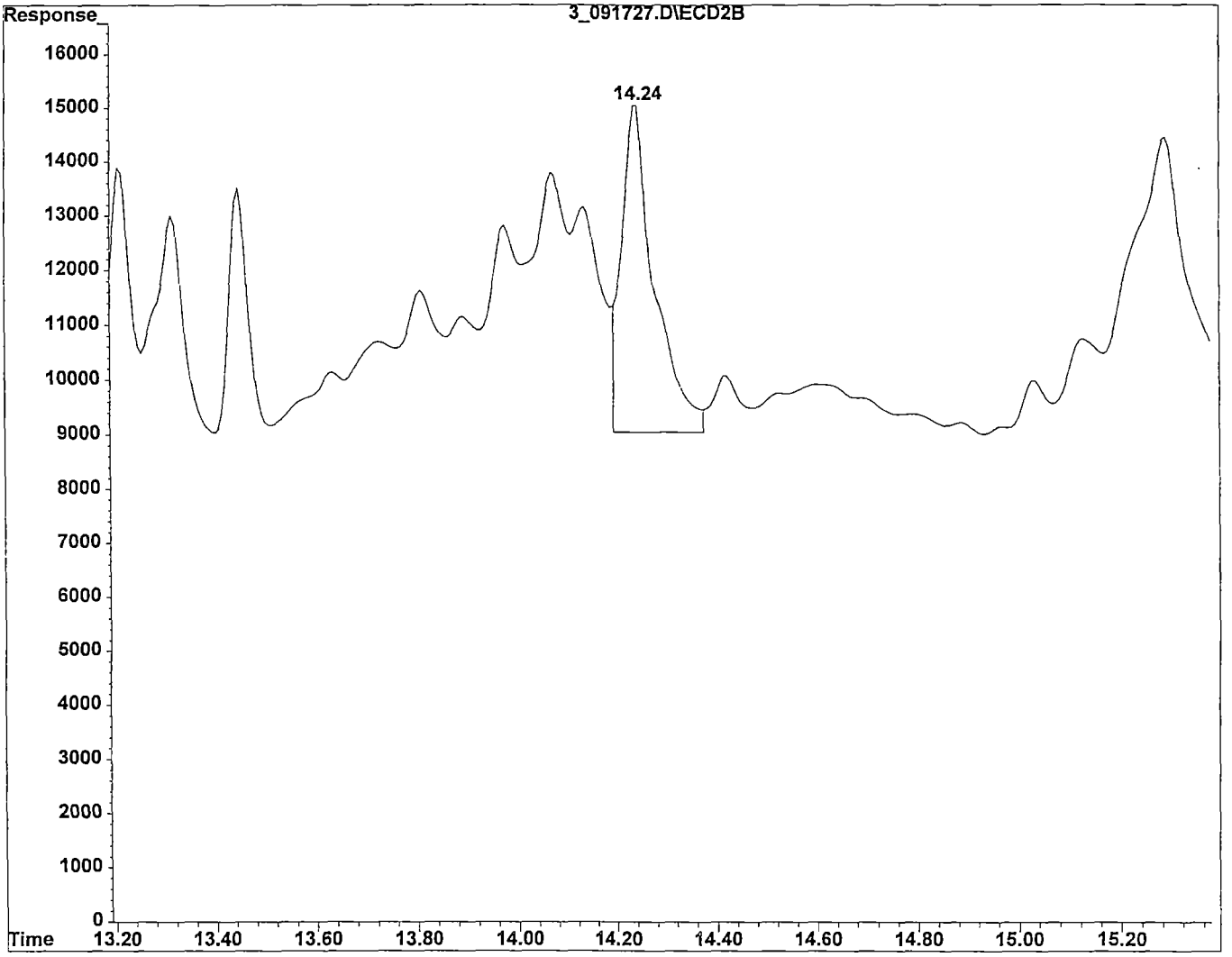
Integration Time Range: 13.39 - 13.52

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091727.D
Report generated: Wed Sep 19 11:23:42 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091727.D
Date Acquired: 18 Sep 2001 4:09
Inst: HP_03 Operator ID: BTB
Name: 47348.07 *E03D3 *
Misc: *EPA*30.3G/5.0ML*43
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:00 2001 Quant Results File: XPCBI16.RES



OK 9-25-01

Aroclor-1254 {5} #2 14.24min area: 269804 m

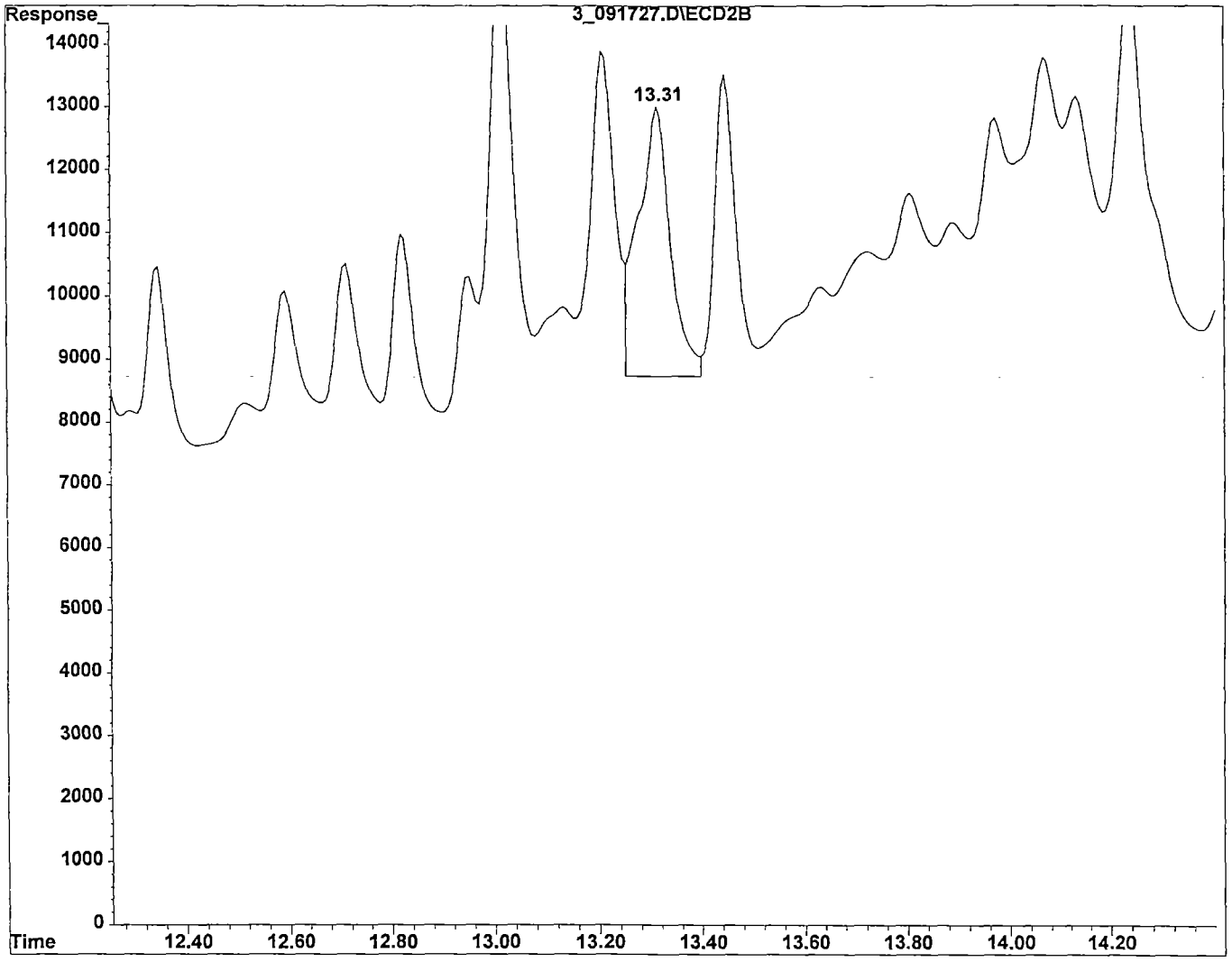
Integration Time Range: 14.19 - 14.37

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091727.D
Report generated: Wed Sep 19 11:23:42 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091727.D
Date Acquired: 18 Sep 2001 4:09
Inst: HP_03 Operator ID: BTB
Name: 47348.07 *E03D3 *
Misc: *EPA*30.3G/5.0ML*43
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:00 2001 Quant Results File: XPCBI16.RES



Aroclor-1260 #2 13.31min area: 182280 m

Integration Time Range: 13.26 - 13.40

BTB 091901

OK 9-25-01

F:\HPCHEM\HP\3\DATA\09_17_01\3_091727.D
Report generated: Wed Sep 19 11:23:43 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E03D4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Matrix: (soil/water) SOIL Lab Sample ID: 47348.08

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

% Moisture: 50 decanted: (Y/N) __ Date Received: 08/20/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/23/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/18/01

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	64	UJ
11104-28-2	Aroclor-1221	64	UJ
11141-16-5	Aroclor-1232	64	UJ
53469-21-9	Aroclor-1242	79	PJ
12672-29-6	Aroclor-1248	64	UJ
11097-69-1	Aroclor-1254	99	J
11096-82-5	Aroclor-1260	34	JP
Surrogate amount spiked		12.99	

212

TBS
10-11-01

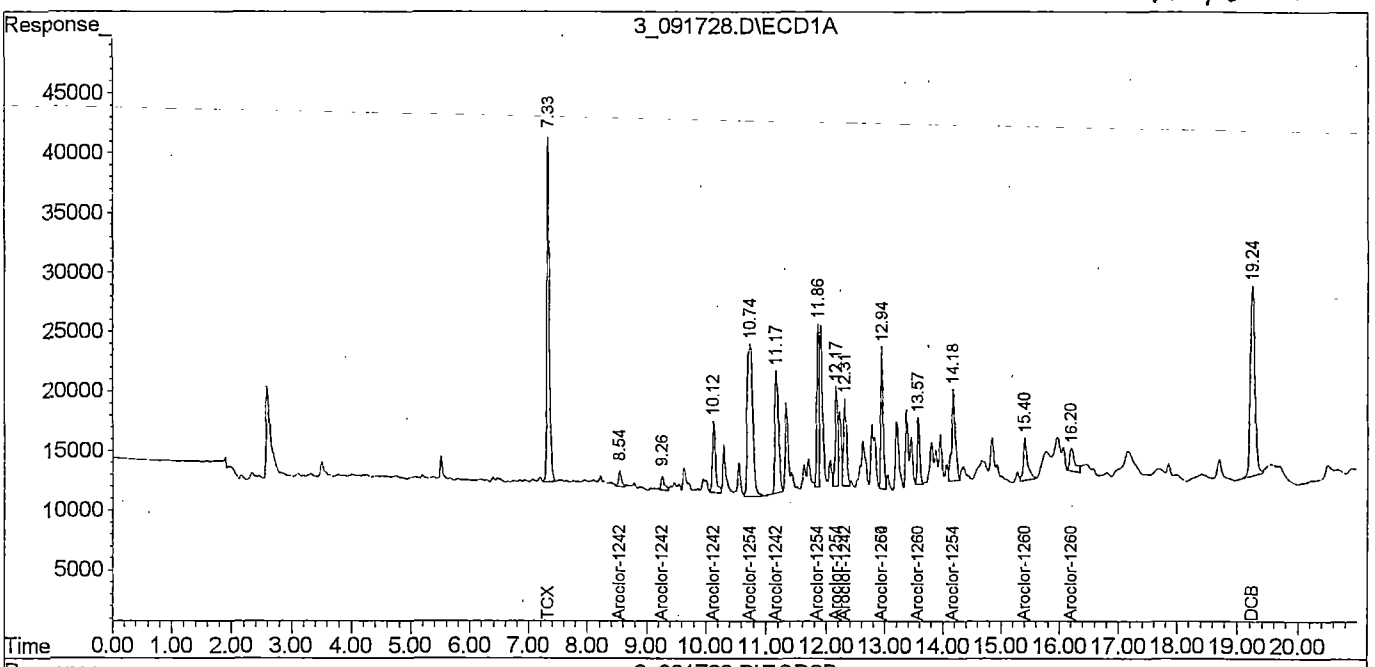
Chromatographic Report

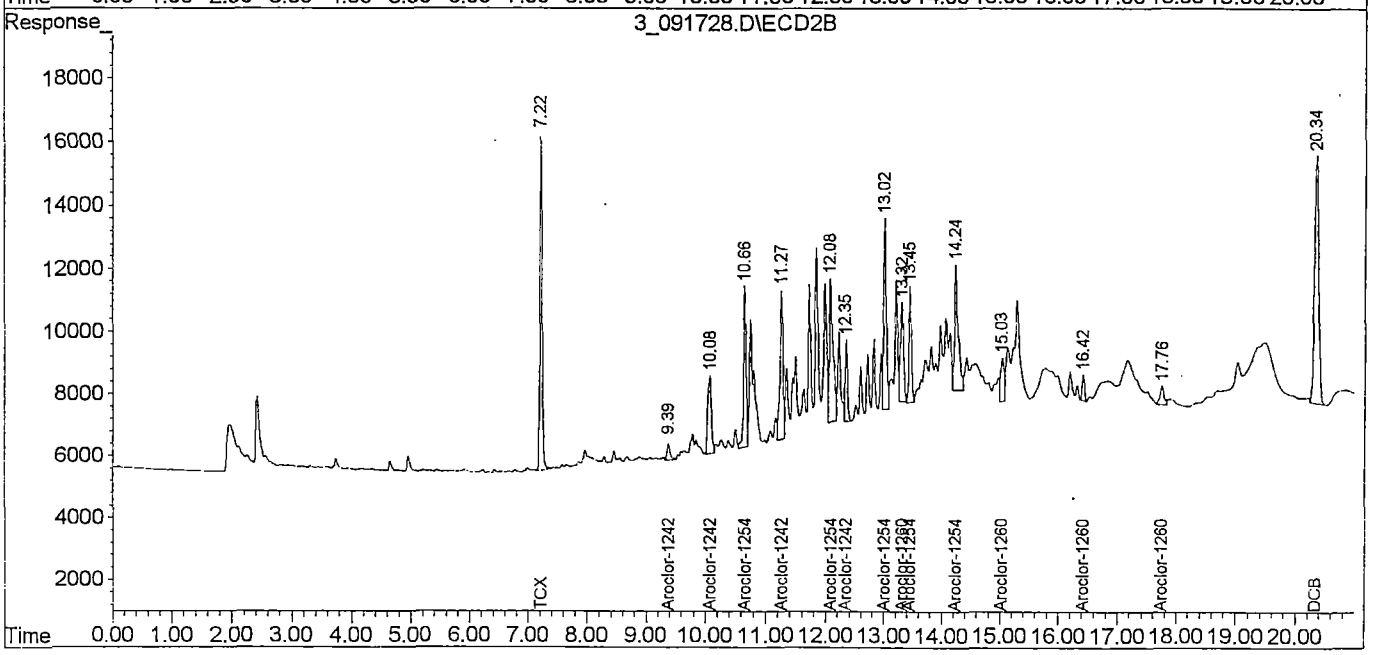
Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091728.D\ECD1A.CH Vial: 28
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091728.D\ECD2B.CH
Acq On : 18 Sep 2001 4:34 Operator: BTB
Sample : 47348.08 *E03D4 * Inst : HP_03
Misc : *EPA*30.8G/5.0ML*50 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 24 15:51 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

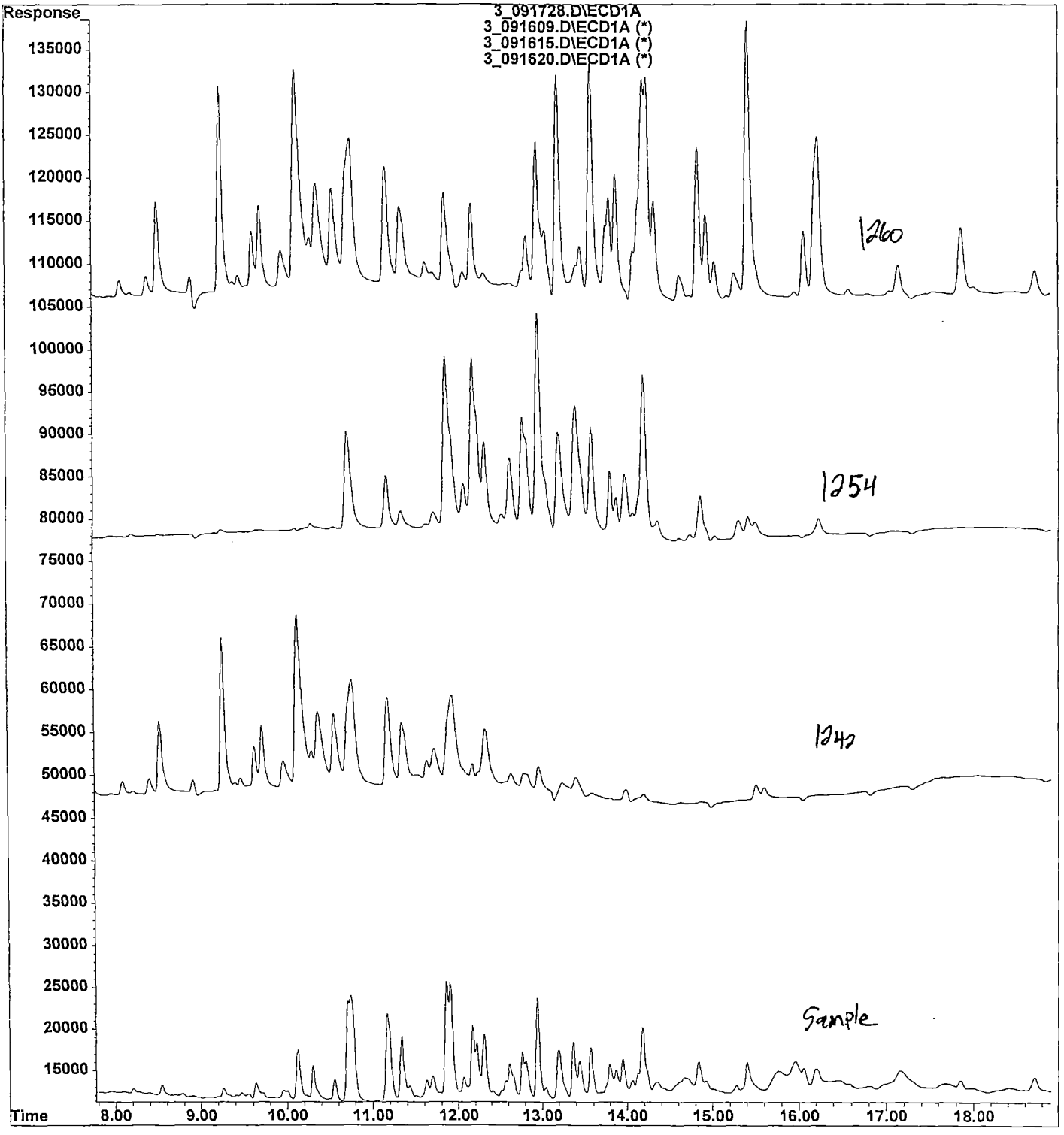
pk 9-25-01





File : F:\HPCHEM\HP\3\DATA\09_17_01\3_091728.D
Operator : BTB
Acquired : 18 Sep 2001 4:34 using AcqMethod OLM03.M
Instrument : HP_03
Sample Name: 47348.08 *E03D4 *
Misc Info : *EPA*30.8G/5.0ML*50
Vial Number: 28

OK 9-21-01



Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091728.D\ECD1A.CH Vial: 28
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091728.D\ECD2B.CH
Acq On : 18 Sep 2001 4:34 Operator: BTB
Sample : 47348.08 *E03D4 * Inst : HP_03
Misc : *EPA*30.8G/5.0ML*50 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 24 15:51 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

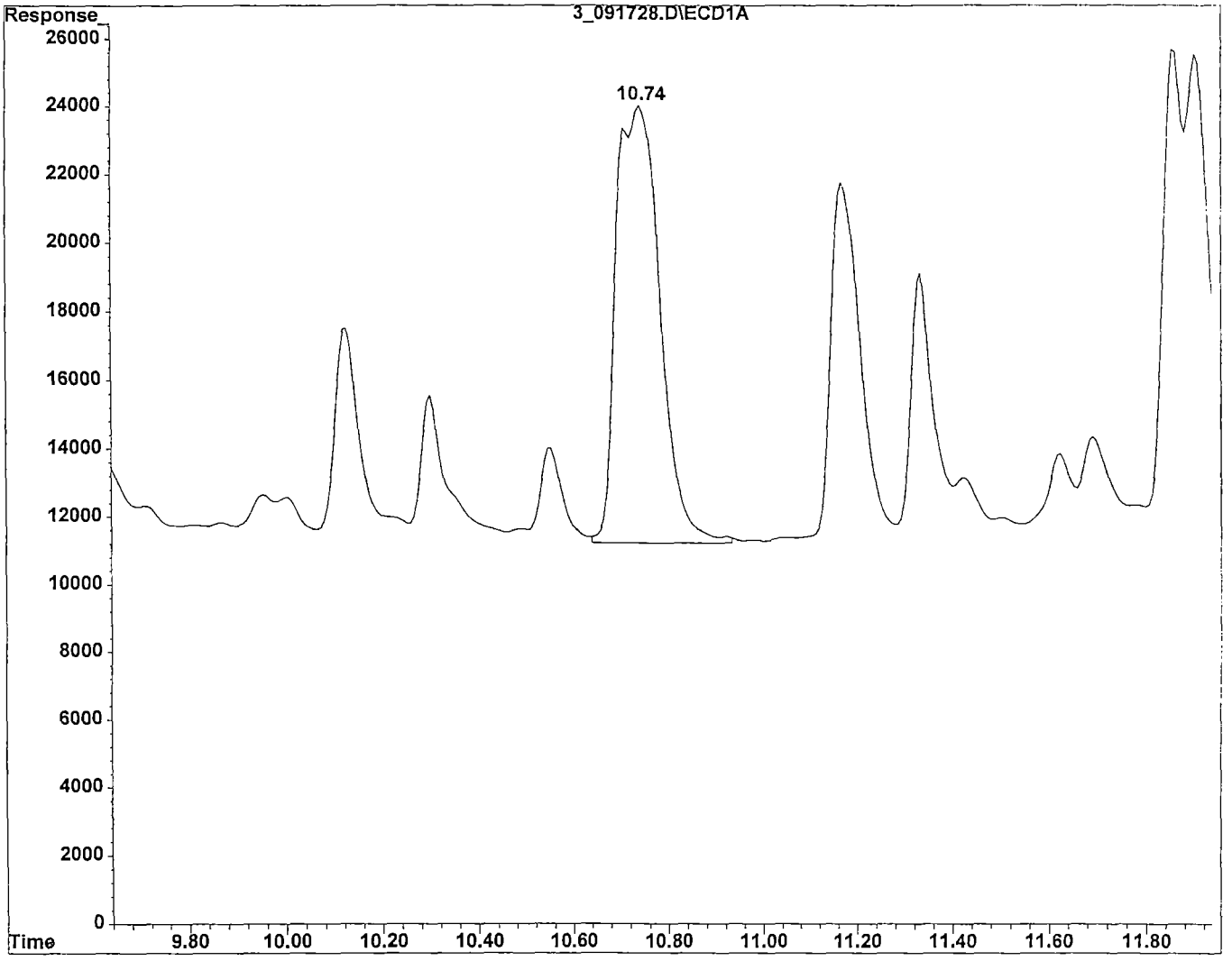
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	843832	274503	10.1	11.0
	Spiked Amount 12.987			Recovery	=	77.77%	84.70%
22)	S DCB	19.24	20.34	800556	400229	9.240m BTB	10.6
	Spiked Amount 12.987			Recovery	=	71.15% 092401	81.62%
	Target Compounds:						
7)	L4 Aroclor-1242	8.54	0.00	47144	0	27.1	N.D. d #
8)	L4 Aroclor-1242 {2}	9.26	9.39	44801	21004	14.7	19.9 #
9)	L4 Aroclor-1242 {3}	10.13	10.08	220163	103177	39.3	50.7 #
10)	L4 Aroclor-1242 {4}	11.17	11.27	429264	160154	174.6	240.3 #
11)	L4 Aroclor-1242 {5}	12.31	12.35	265683	70936	138.6	119.9m BTB 092401
	Sum Aroclor-1242			1007056	355270	394.3	430.8
	Average Aroclor-1242					78.856	107.694
12)	L6 Aroclor-1254	10.74	10.66	807328	156009	259.2m	207.9
13)	L6 Aroclor-1254 {2}	11.86	12.09	360501	195888	62.5	115.9m #
14)	L6 Aroclor-1254 {3}	12.17	13.01	242267	193588	45.9	85.5m #
15)	L6 Aroclor-1254 {4}	12.94	13.45	353629	103724	58.2	83.0m #
16)	L6 Aroclor-1254 {5}	14.18	14.24	349687	175656	71.0	105.0m #
	Sum Aroclor-1254			2113412	824865	496.8	597.2
	Average Aroclor-1254					99.356	119.440
17)	L7 Aroclor-1260	12.94	13.31	353629	126668	107.5	65.4m #
18)	L7 Aroclor-1260 {2}	13.57	0.00	165576	0	33.1m	N.D. d #
19)	L7 Aroclor-1260 {3}	0.00	15.04	0	58278	N.D. d	35.1 #
20)	L7 Aroclor-1260 {4}	15.40	16.43	170148	23160	23.6	13.6 #
21)	L7 Aroclor-1260 {5}	16.21	17.76	124384	28079	22.7	23.4
	Sum Aroclor-1260			813738	236185	121.4	89.2
	Average Aroclor-1260					46.739	34.341

(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\3\DATA\09_17_01\3_091728.D
Date Acquired: 18 Sep 2001 4:34
Inst: HP_03 Operator ID: BTB
Name: 47348.08 *E03D4 *
Misc: *EPA*30.8G/5.0ML*50
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 24 15:51 2001 Quant Results File: XPCBI16.RES



ok 9-25-01

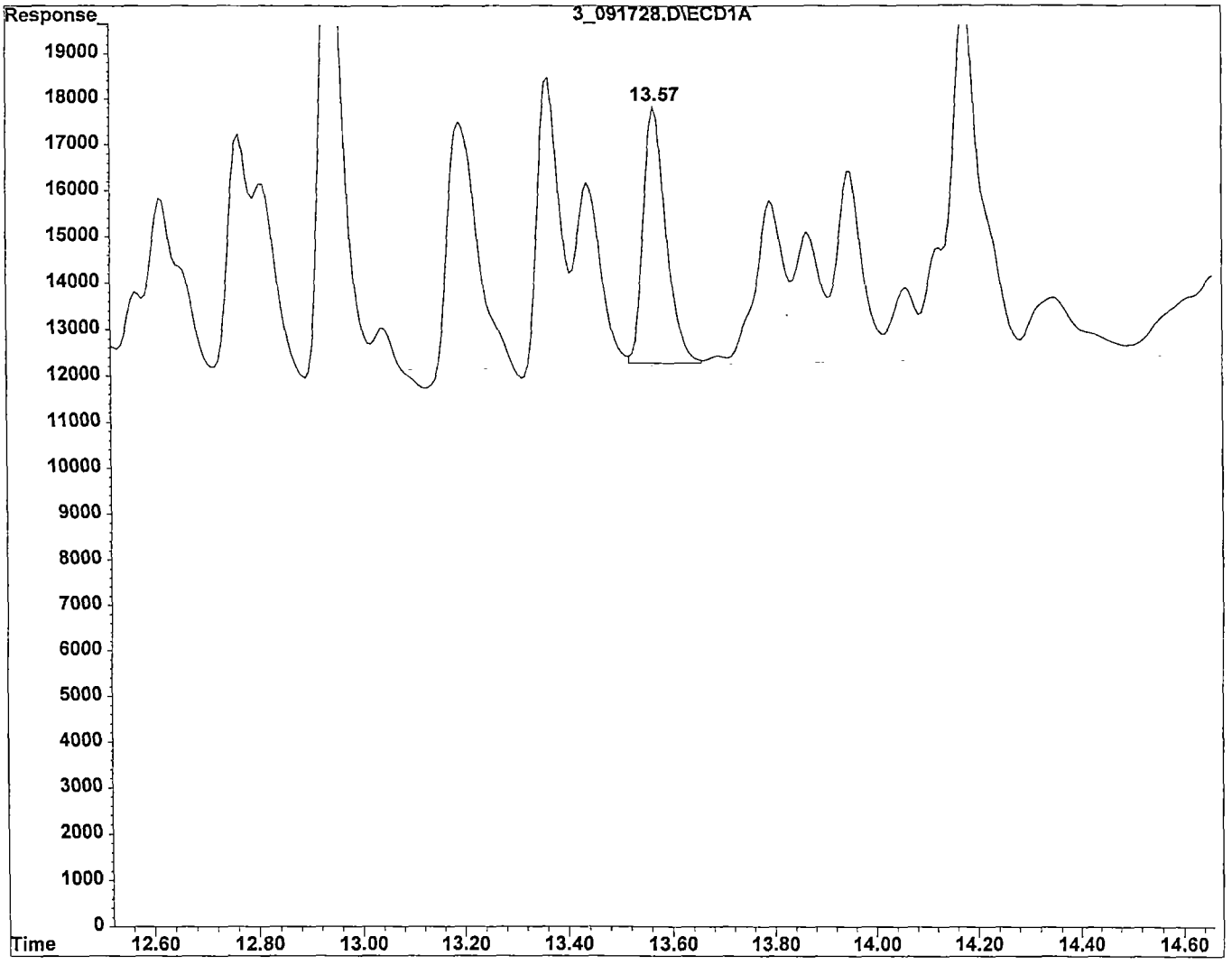
Aroclor-1254 10.74min area: 807328 m BTB

Integration Time Range: 10.64 - 10.94 092401

F:\HPCHEM\HP\3\DATA\09_17_01\3_091728.D
Report generated: Mon Sep 24 16:13:05 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091728.D
Date Acquired: 18 Sep 2001 4:34
Inst: HP_03 Operator ID: BTB
Name: 47348.08 *E03D4 *
Misc: *EPA*30.8G/5.0ML*50
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:06 2001 Quant Results File: XPCBI16.RES



OK 9-21-01

Aroclor-1260 {2} 13.57min area: 165576 m

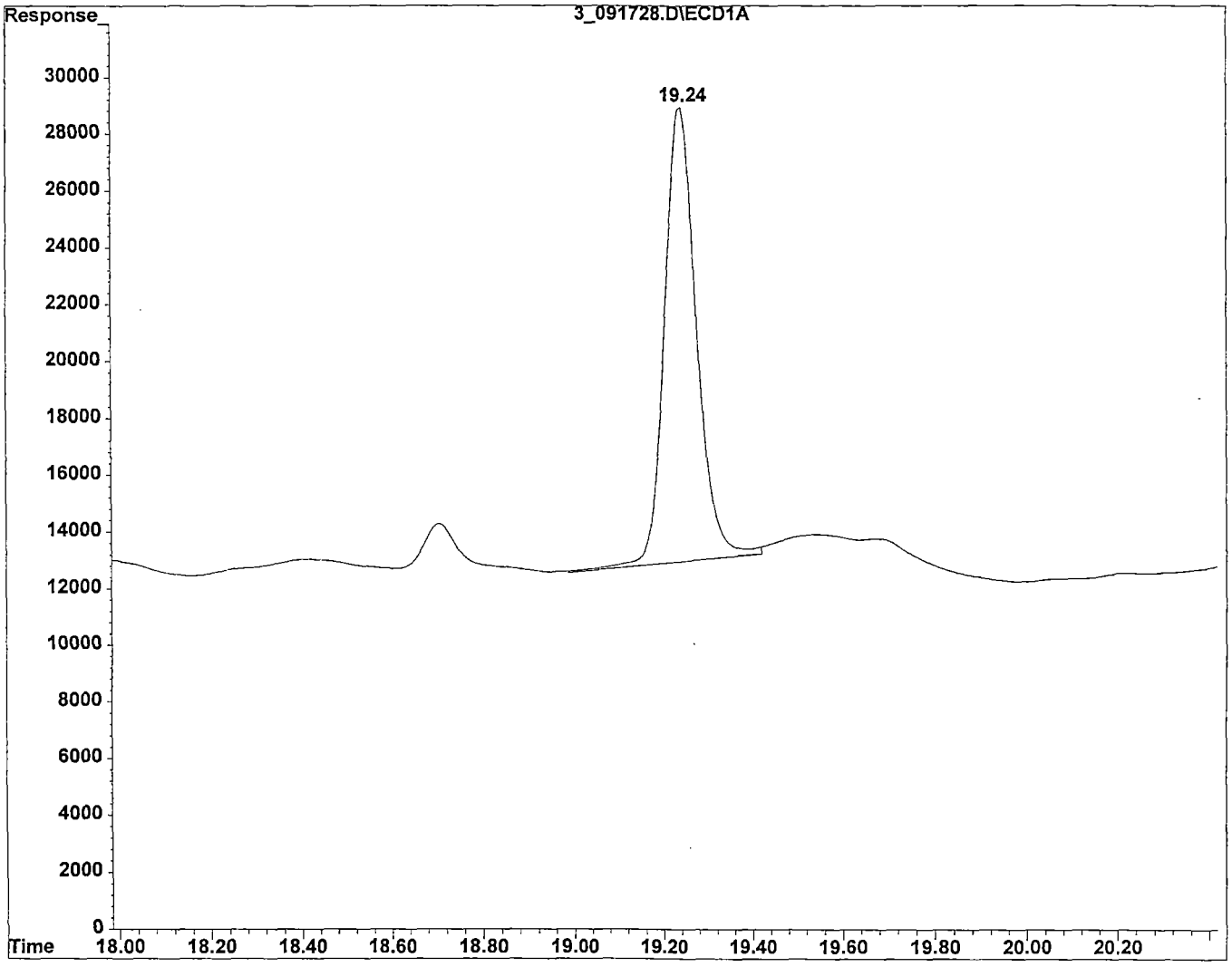
Integration Time Range: 13.52 - 13.66

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091728.D
Report generated: Wed Sep 19 11:23:44 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091728.D
Date Acquired: 18 Sep 2001 4:34
Inst: HP_03 Operator ID: BTB
Name: 47348.08 *E03D4 *
Misc: *EPA*30.8G/5.0ML*50
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:06 2001 Quant Results File: XPCBI16.RES



ok 9-21-01

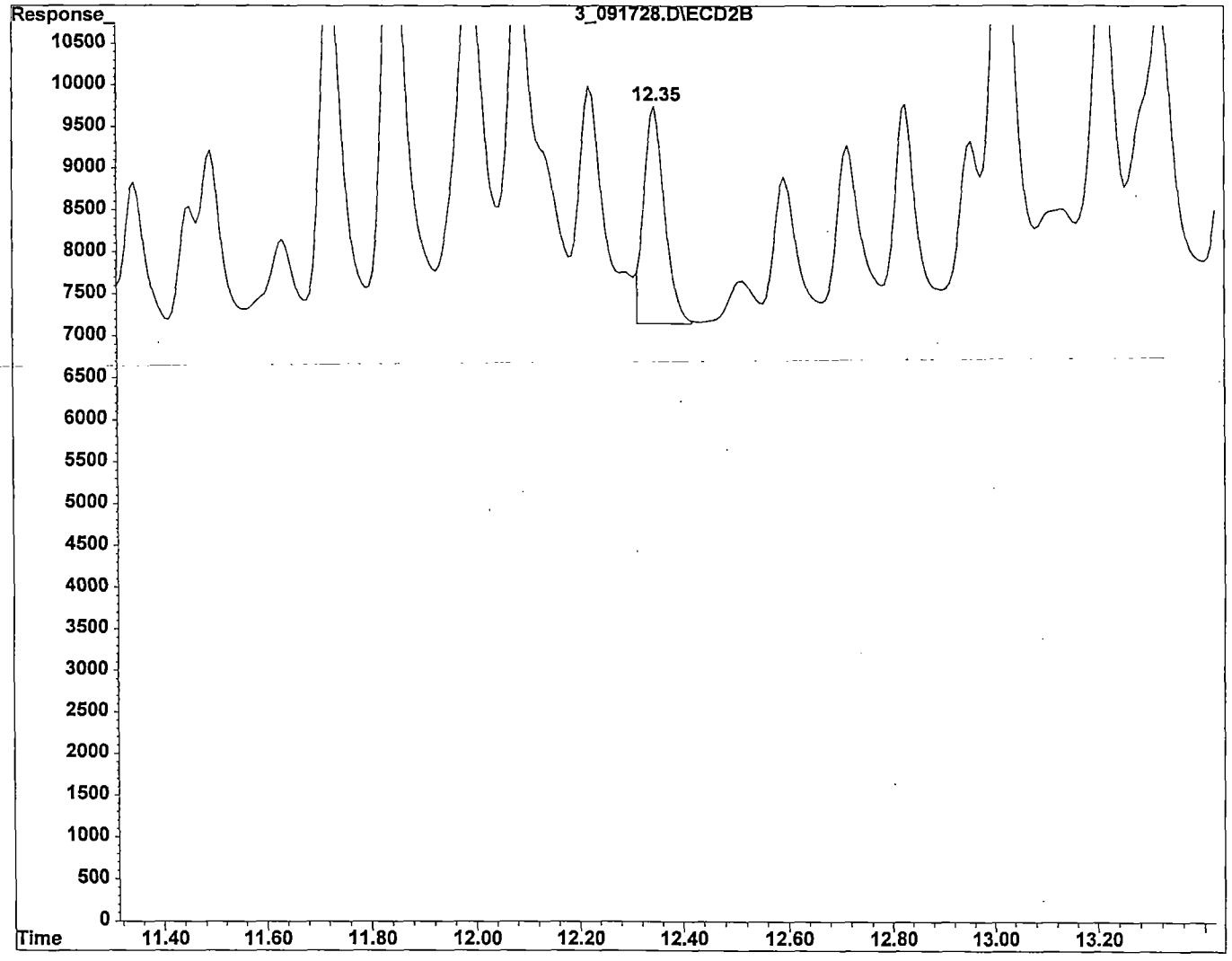
DCB 19.24min area: 800556 m BTB 091901

Integration Time Range: 18.99 - 19.42

F:\HPCHEM\HP\3\DATA\09_17_01\3_091728.D
Report generated: Wed Sep 19 11:23:45 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091728.D
Date Acquired: 18 Sep 2001 4:34
Inst: HP_03 Operator ID: BTB
Name: 47348.08 *E03D4 *
Misc: *EPA*30.8G/5.0ML*50
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:06 2001 Quant Results File: XPCBI16.RES



GK 9-21-01

Aroclor-1242 {5} #2 12.35min area: 70936 m

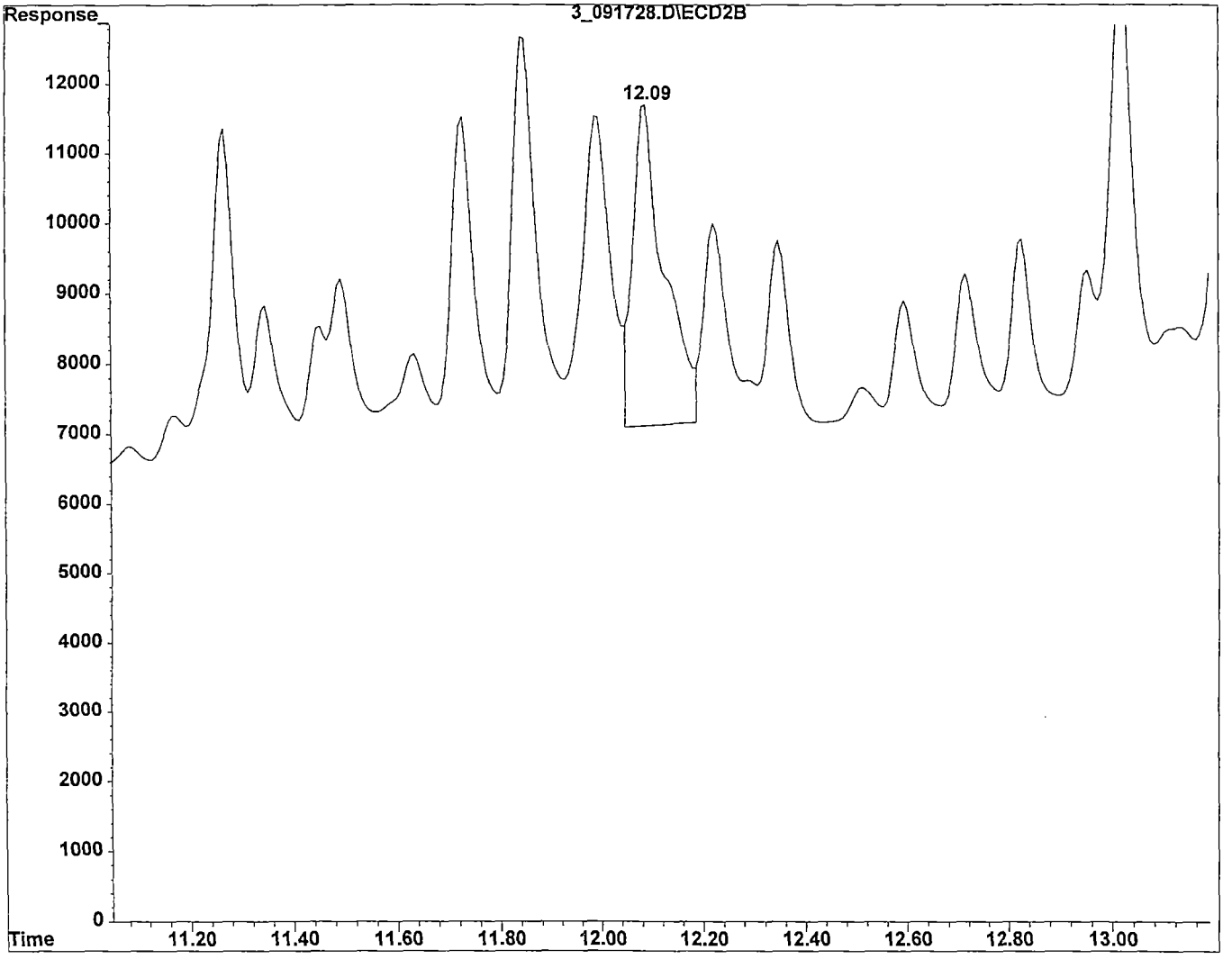
Integration Time Range: 12.31 - 12.42

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091728.D
Report generated: Wed Sep 19 11:23:46 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091728.D
Date Acquired: 18 Sep 2001 4:34
Inst: HP_03 Operator ID: BTB
Name: 47348.08 *E03D4 *
Misc: *EPA*30.8G/5.0ML*50
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:06 2001 Quant Results File: XPCBI16.RES



OK 9-21-01

Aroclor-1254 {2} #2 12.09min area: 195888 m

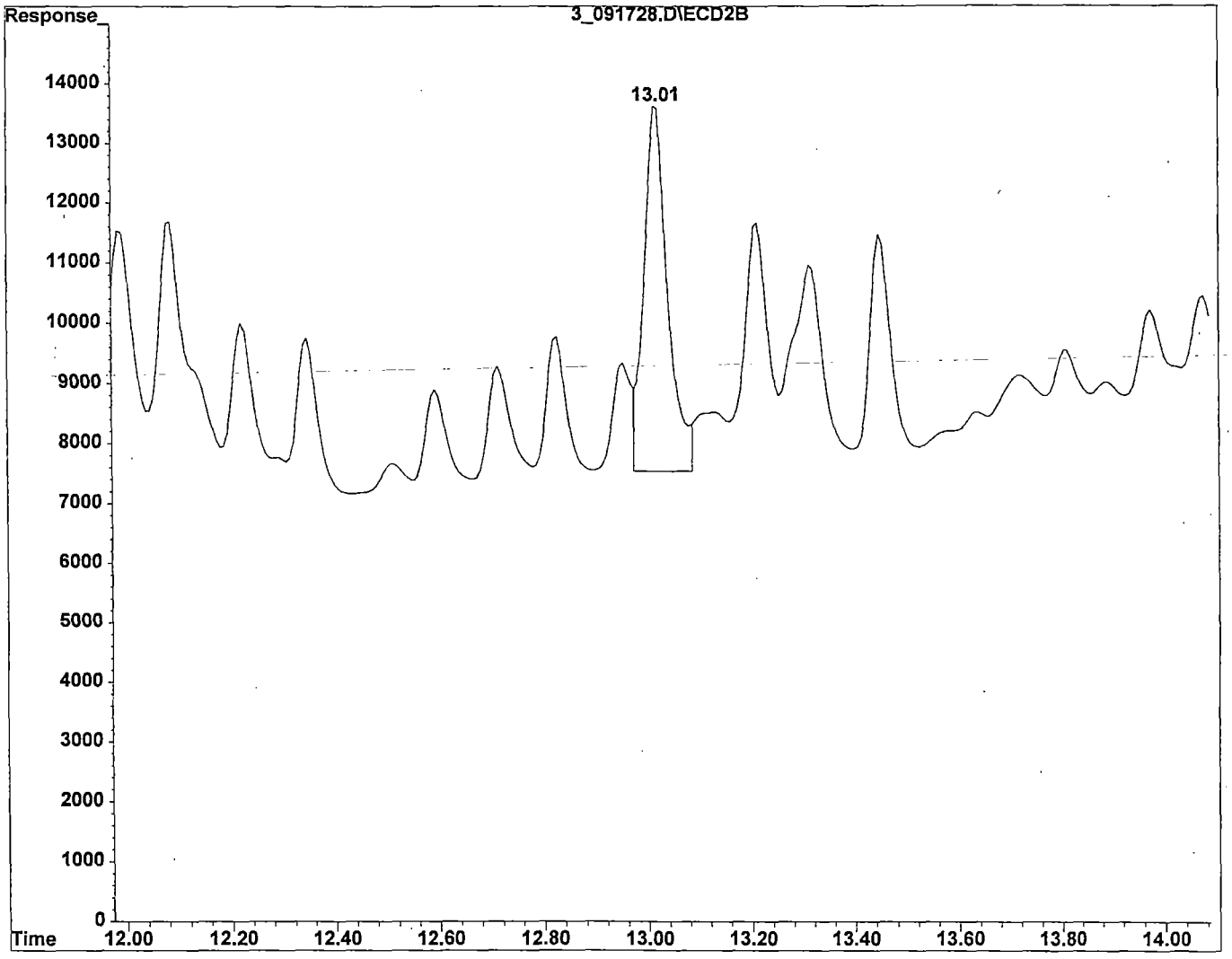
Integration Time Range: 12.05 - 12.18

BTB 09/19/01

F:\HPCHEM\HP\3\DATA\09_17_01\3_091728.D
Report generated: Wed Sep 19 11:23:46 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091728.D
Date Acquired: 18 Sep 2001 4:34
Inst: HP_03 Operator ID: BTB
Name: 47348.08 *E03D4 *
Misc: *EPA*30.8G/5.0ML*50
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:06 2001 Quant Results File: XPCBI16.RES



ok 9-21-01

Aroclor-1254 {3} #2 13.01min area: 193588 m

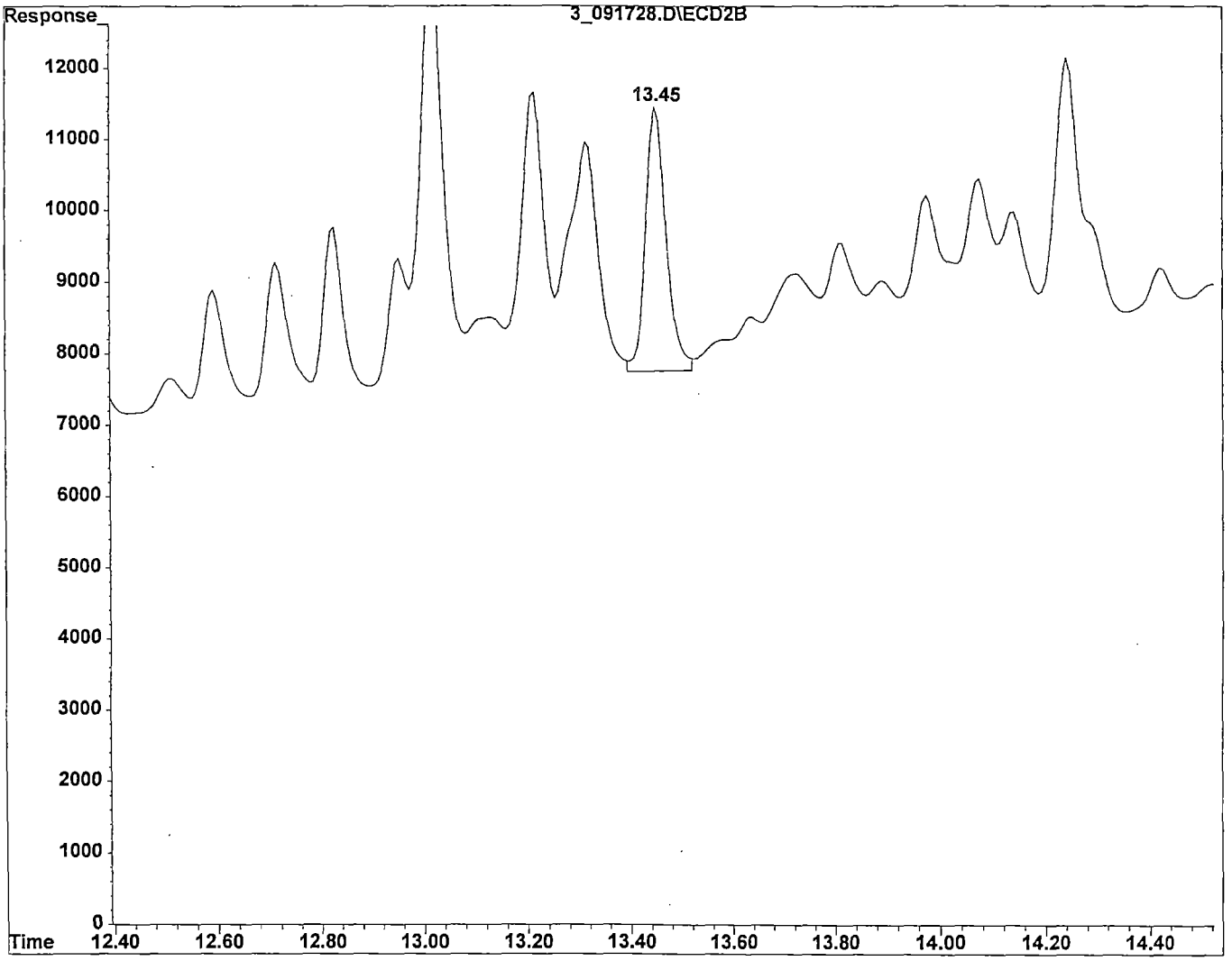
Integration Time Range: 12.97 - 13.08

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091728.D
Report generated: Wed Sep 19 11:23:47 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091728.D
Date Acquired: 18 Sep 2001 4:34
Inst: HP_03 Operator ID: BTB
Name: 47348.08 *E03D4 *
Misc: *EPA*30.8G/5.0ML*50
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:06 2001 Quant Results File: XPCBI16.RES



GK 9-21-01

Aroclor-1254 {4} #2 13.45min area: 103724 m

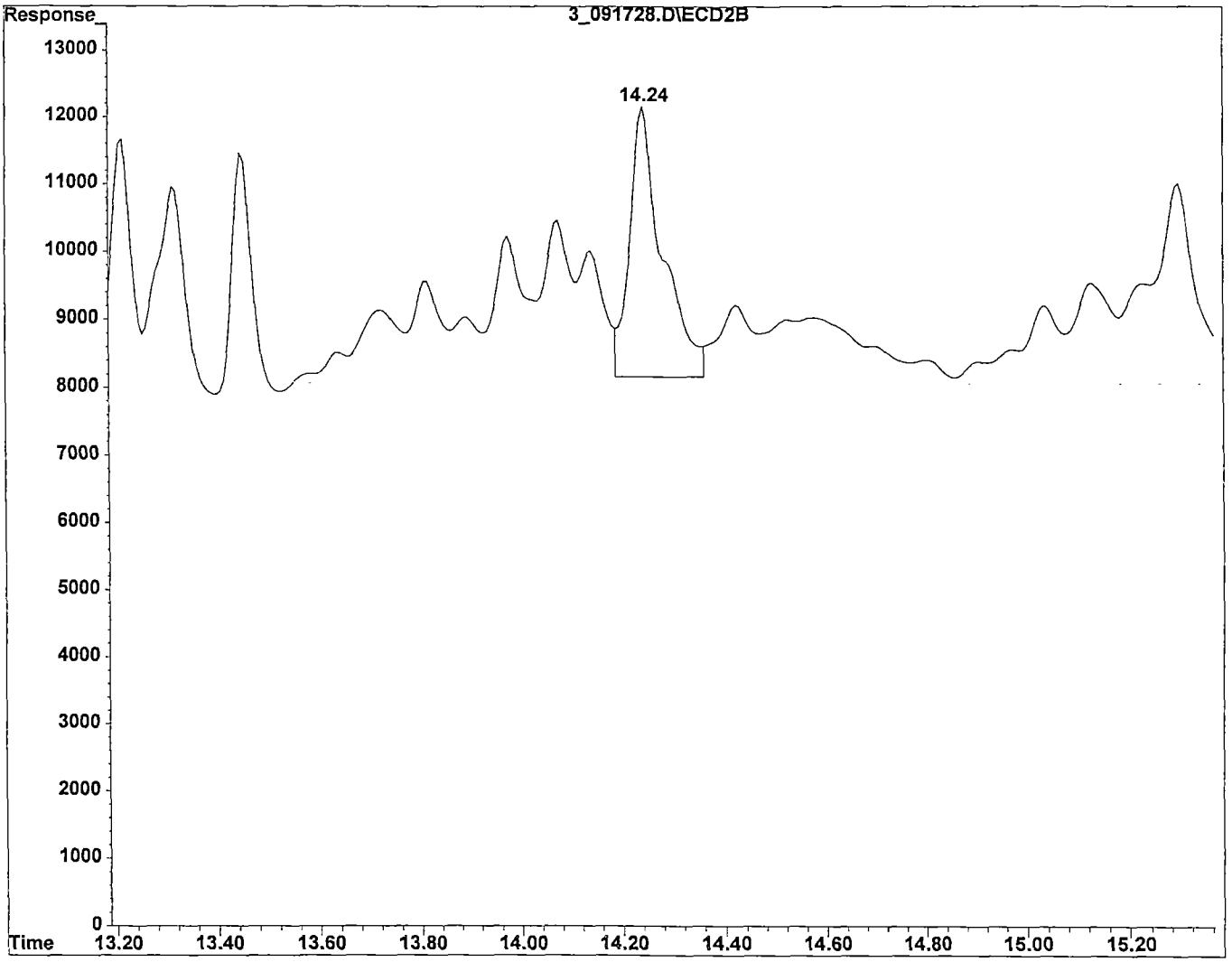
Integration Time Range: 13.39 - 13.52

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091728.D
Report generated: Wed Sep 19 11:23:47 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091728.D
Date Acquired: 18 Sep 2001 4:34
Inst: HP_03 Operator ID: BTB
Name: 47348.08 *E03D4 *
Misc: *EPA*30.8G/5.0ML*50
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:06 2001 Quant Results File: XPCBI16.RES



ok 9-21-01

Aroclor-1254 {5} #2 14.24min area: 175656 m

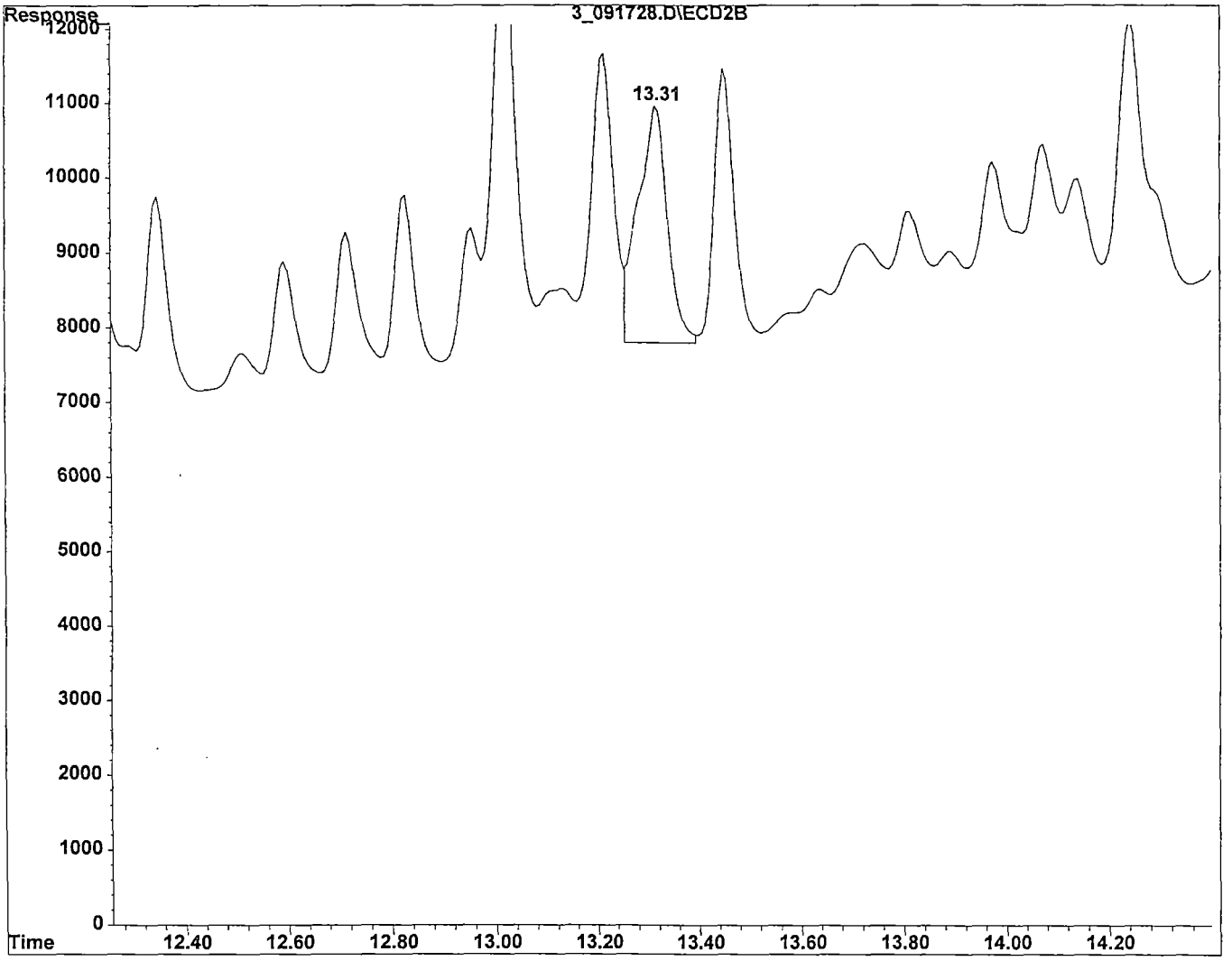
Integration Time Range: 14.19 - 14.36

BTB
091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091728.D
Report generated: Wed Sep 19 11:23:47 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091728.D
Date Acquired: 18 Sep 2001 4:34
Inst: HP_03 Operator ID: BTB
Name: 47348.08 *E03D4 *
Misc: *EPA*30.8G/5.0ML*50
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:06 2001 Quant Results File: XPCBI16.RES



OK 9-21-01

Aroclor-1260 #2 13.31min area: 126668 m

Integration Time Range: 13.26 - 13.39

BTB
091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091728.D
Report generated: Wed Sep 19 11:23:48 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E03D5

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Matrix: (soil/water) SOIL Lab Sample ID: 47348.09

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

% Moisture: 46 decanted: (Y/N) __ Date Received: 08/20/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/23/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/18/01

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	61	UJ
11104-28-2	Aroclor-1221	61	UJ
11141-16-5	Aroclor-1232	61	UJ
53469-21-9	Aroclor-1242	270	PJ
12672-29-6	Aroclor-1248	61	UJ
11097-69-1	Aroclor-1254	170	PJ
11096-82-5	Aroclor-1260	64	PJ
Surrogate amount spiked		12.30	

504 TBS 10-11-01

FORM I PCB

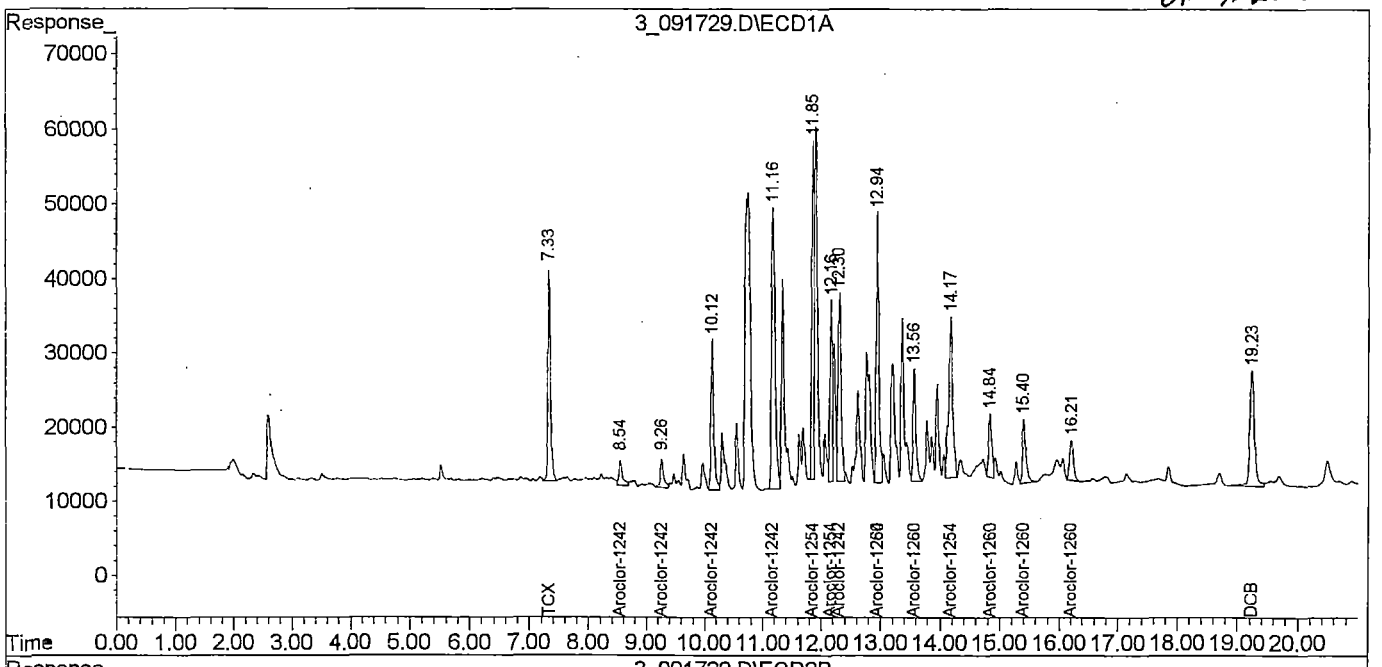
Chromatographic Report

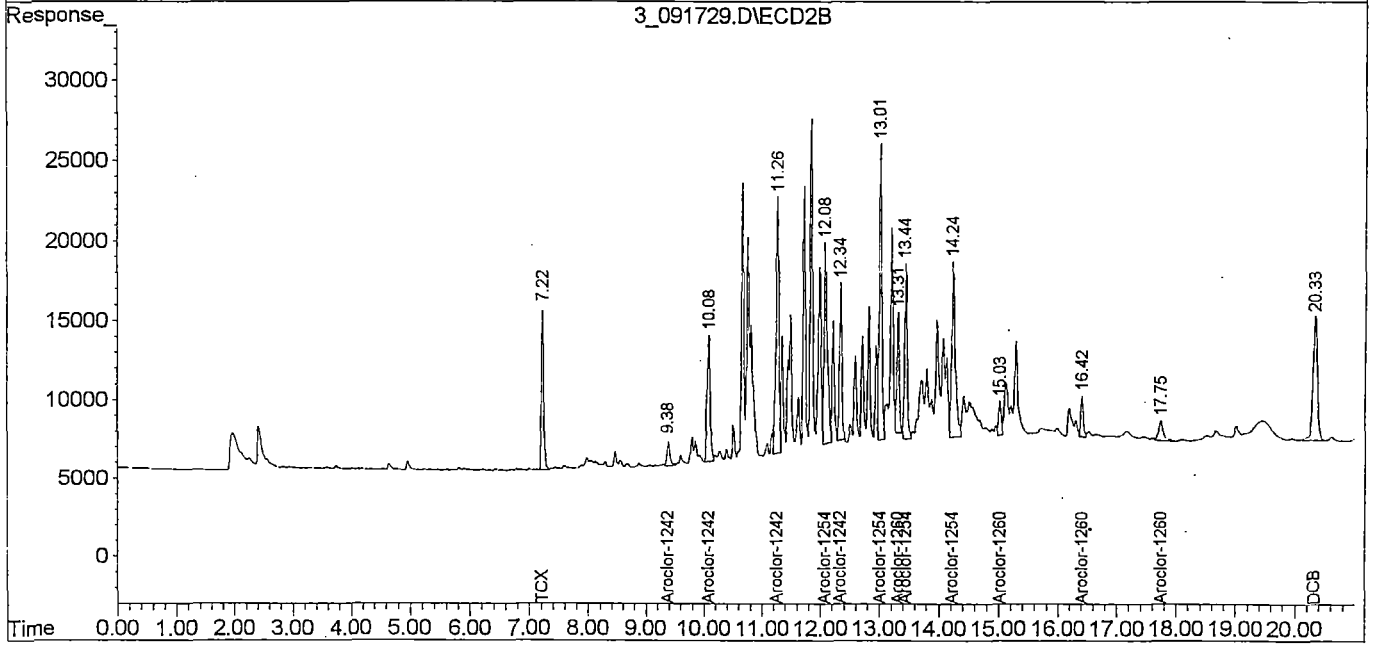
Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091729.D\ECD1A.CH Vial: 29
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091729.D\ECD2B.CH
Acq On : 18 Sep 2001 5:00 Operator: BTB
Sample : 47348.09 *E03D5 * Inst : HP_03
Misc : *EPA*30.1G/5.0ML*46 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 10:43 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

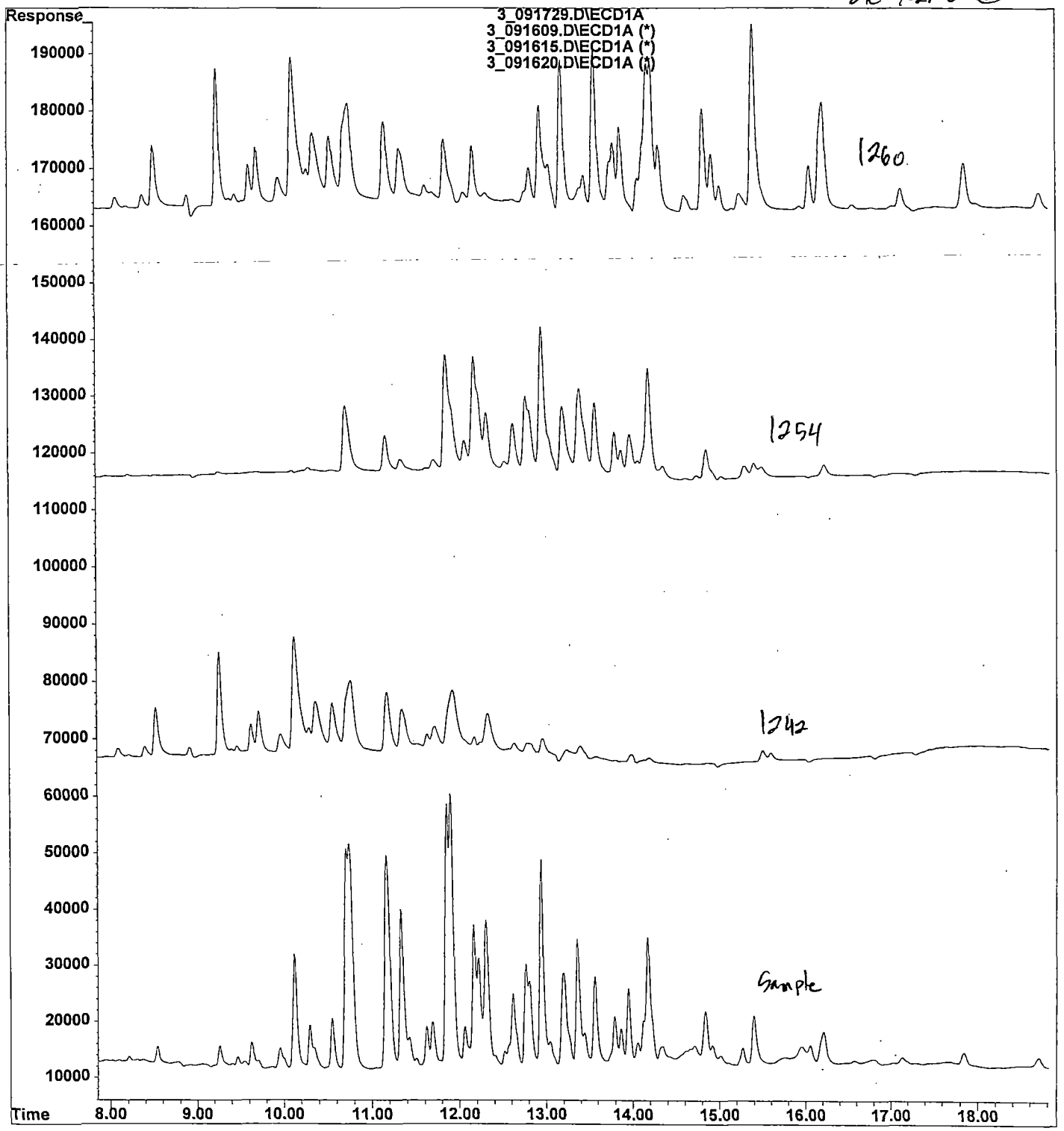
OK 9-25-01 GA





File : F:\HPCHEM\HP\3\DATA\09_17_01\3_091729.D
Operator : BTB
Acquired : 18 Sep 2001 5:00 using AcqMethod OLM03.M
Instrument : HP_03
Sample Name: 47348.09 *E03D5 *
Misc Info : *EPA*30.1G/5.0ML*46
Vial Number: 29

OK 9-21-01



Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091729.D\ECD1A.CH Vial: 29
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091729.D\ECD2B.CH
Acq On : 18 Sep 2001 5:00 Operator: BTB
Sample : 47348.09 *E03D5 * Inst : HP_03
Misc : *EPA*30.1G/5.0ML*46 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 10:43 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

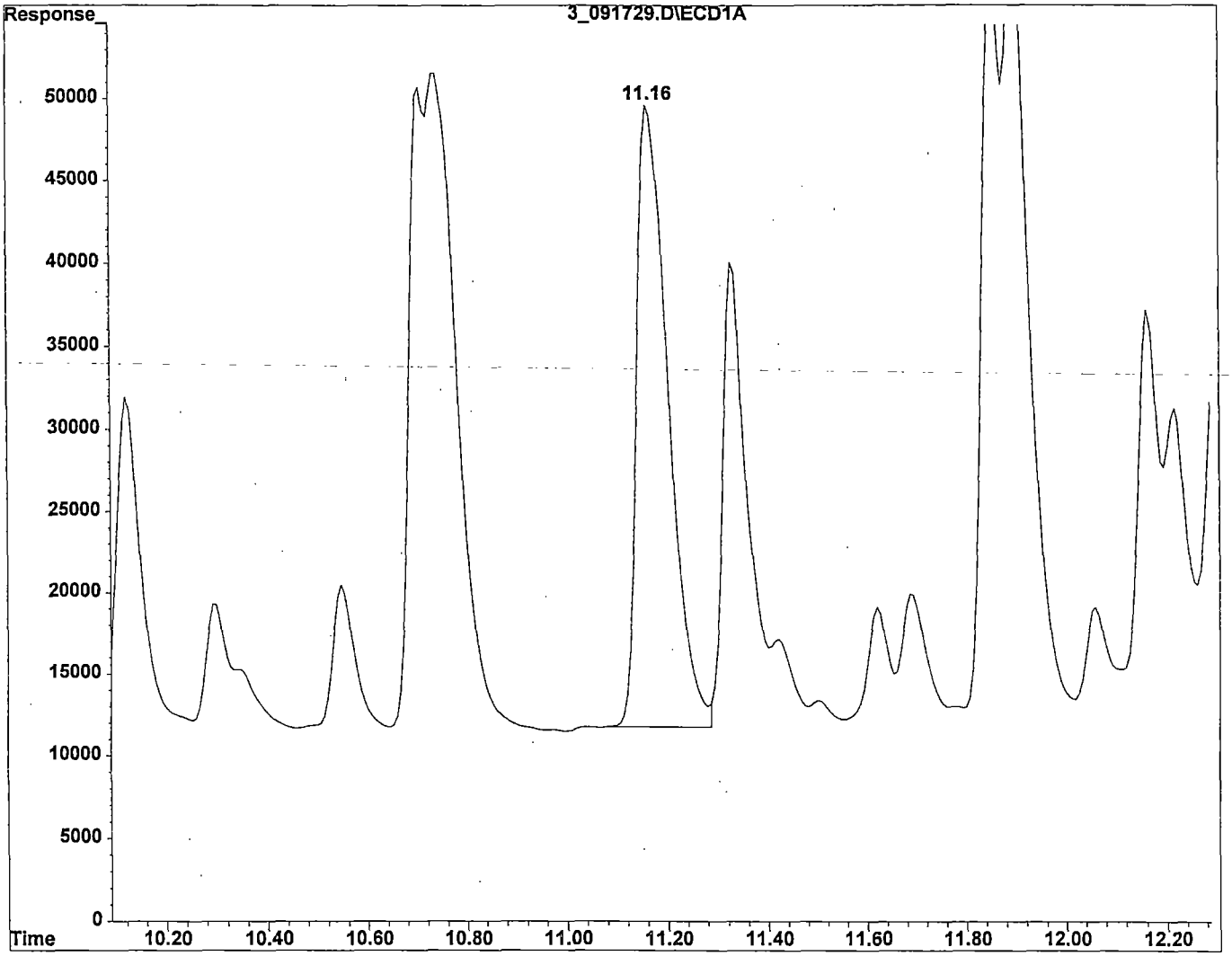
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	865315	268067	9.819	10.2
	Spiked Amount 12.305			Recovery	=	79.80%	82.90%
22)	S DCB	19.23	20.33	834744	420643	9.128	10.6
	Spiked Amount 12.305			Recovery	=	✓74.18%	✓86.15%
	Target Compounds:						
7)	L4 Aroclor-1242	8.54	0.00	136298	0	74.1	N.D. d #
8)	L4 Aroclor-1242 {2}	9.26	9.39	147587	52681	46.0	47.2
9)	L4 Aroclor-1242 {3}	10.12	10.08	724646	300350	122.5 9-25-01	139.7
10)	L4 Aroclor-1242 {4}	11.16	11.26	1643168	531987	633.1m	756.4
11)	L4 Aroclor-1242 {5}	12.30	12.34	955401	280495	472.3	449.3
	Sum Aroclor-1242			3607100	1165513	1348.1	1392.6
	Average Aroclor-1242					269.612	348.144
13)	L6 Aroclor-1254 {2}	11.85	12.08	1185764	471208	194.7m	264.2 #
14)	L6 Aroclor-1254 {3}	12.16	13.02	674097	551382	121.1	230.7 #
15)	L6 Aroclor-1254 {4}	12.94	13.45	1147596	324445	178.9	245.9 #
16)	L6 Aroclor-1254 {5}	14.18	14.24	979038	461736	188.4	261.4 #
	Sum Aroclor-1254			3986494	1808770	683.0	1002.1
	Average Aroclor-1254					170.760	250.536
17)	L7 Aroclor-1260	12.94	13.31	1147596	227716	330.6	111.3m #
18)	L7 Aroclor-1260 {2}	13.57	0.00	508396	0	96.3m	N.D. d #
19)	L7 Aroclor-1260 {3}	14.84	15.03	333575	68038	98.8	38.8 #
20)	L7 Aroclor-1260 {4}	15.40	16.42	343594	87180	45.2	48.5
21)	L7 Aroclor-1260 {5}	16.21	17.75	276946	74711	47.9	58.9
	Sum Aroclor-1260			2610106	457644	380.7	158.4
	Average Aroclor-1260					123.759	64.365

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091729.D
Date Acquired: 18 Sep 2001 5:00
Inst: HP_03 Operator ID: BTB
Name: 47348.09 *E03D5 *
Misc: *EPA*30.1G/5.0ML*46
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:09 2001 Quant Results File: XPCBI16.RES



OK 9-21-01

Aroclor-1242 {4} 11.16min area: 1643168 m

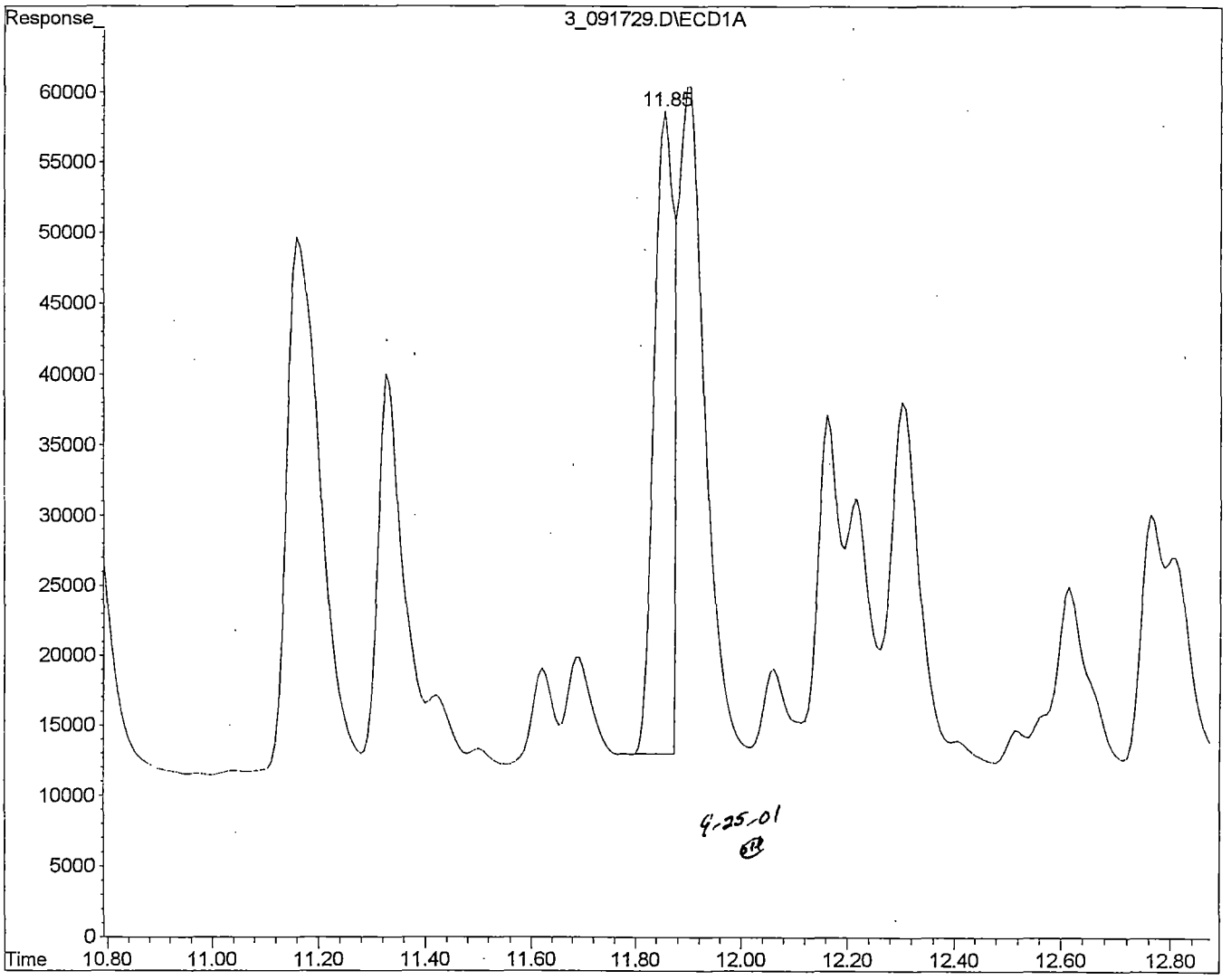
Integration Time Range: 11.09 - 11.29

BTB 09/19/01

F:\HPCHEM\HP\3\DATA\09_17_01\3_091729.D
Report generated: Wed Sep 19 11:23:49 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091729.D
Date Acquired: 18 Sep 2001 5:00
Inst: HP_03 Operator ID: BTB
Name: 47348.09 *E03D5 *
Misc: *EPA*30.1G/5.0ML*46
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 9:52 2001 Quant Results File: XPCBI16.RES



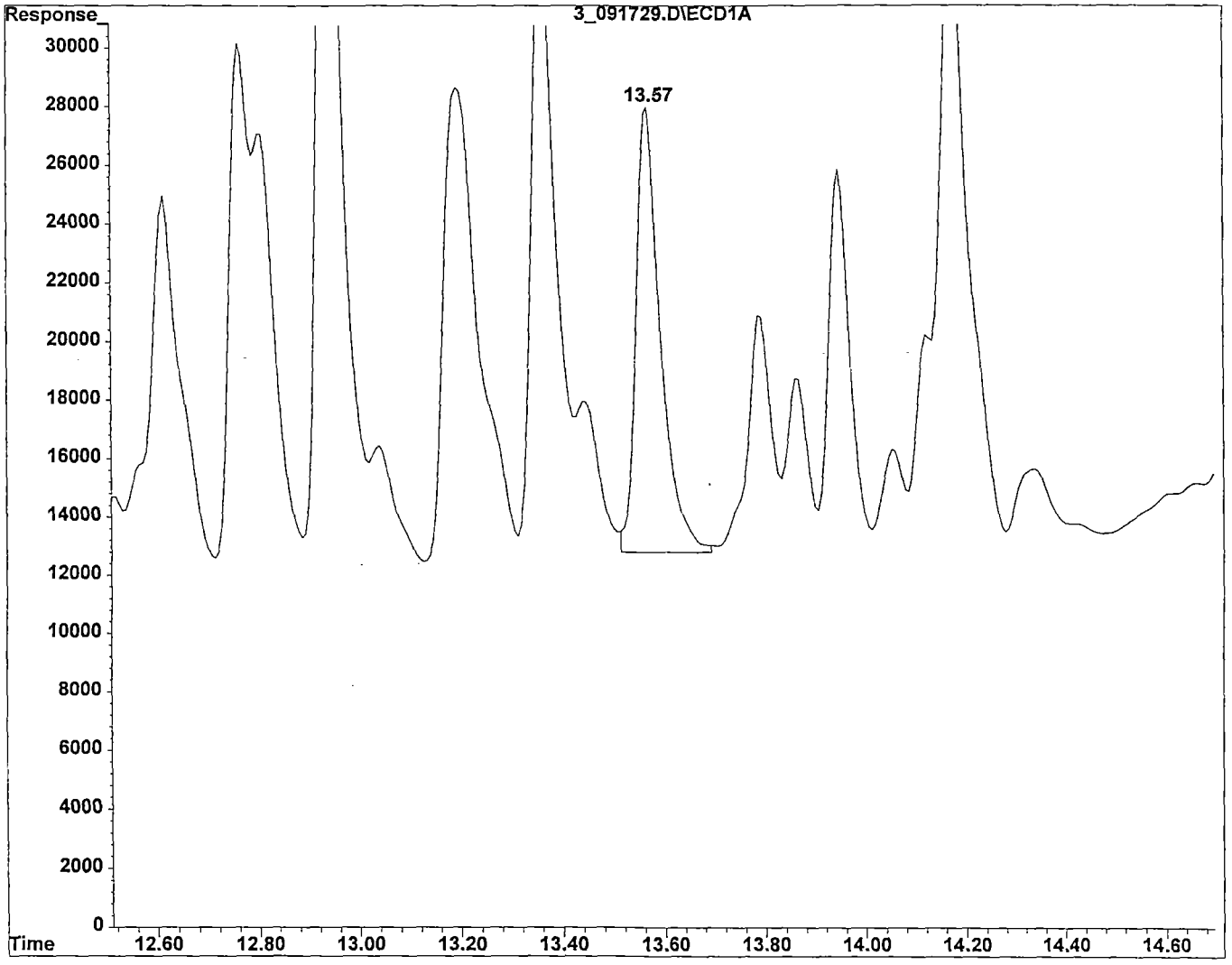
Aroclor-1254 {2} 11.85min area: 1185764 m

Integration Time Range: 11.79 - 11.87

F:\HPCHEM\HP\3\DATA\09_17_01\3_091729.D
Report generated: Tue Sep 25 09:52:54 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091729.D
Date Acquired: 18 Sep 2001 5:00
Inst: HP_03 Operator ID: BTB
Name: 47348.09 *E03D5 *
Misc: *EPA*30.1G/5.0ML*46
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:09 2001 Quant Results File: XPCBI16.RES



OK 9-21-01 BB

Aroclor-1260 {2} 13.57min area: 508396 m

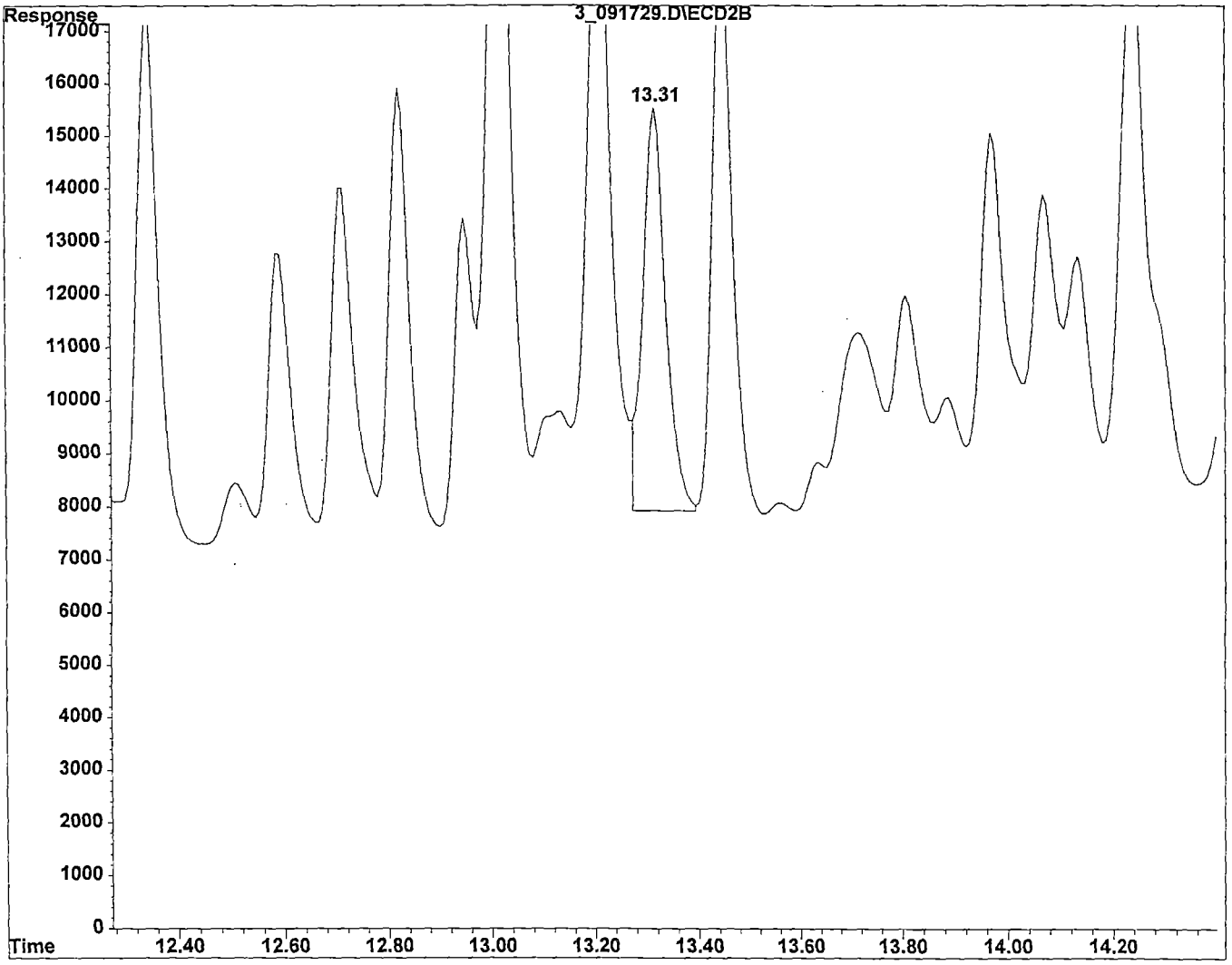
Integration Time Range: 13.51 - 13.69

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091729.D
Report generated: Wed Sep 19 11:23:50 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091729.D
Date Acquired: 18 Sep 2001 5:00
Inst: HP_03 Operator ID: BTB
Name: 47348.09 *E03D5 *
Misc: *EPA*30.1G/5.0ML*46
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:09 2001 Quant Results File: XPCBI16.RES



OK 9-21-01

Aroclor-1260 #2 13.31min area: 227716 m

Integration Time Range: 13.27 - 13.40

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091729.D
Report generated: Wed Sep 19 11:23:51 2001

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E03D6

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Matrix: (soil/water) SOIL Lab Sample ID: 47348.10

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

% Moisture: 31 decanted: (Y/N) __ Date Received: 08/20/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/23/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/18/01

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	47	UJ
11104-28-2	Aroclor-1221	47	UJ
11141-16-5	Aroclor-1232	47	UJ
53469-21-9	Aroclor-1242	~~460~~ 780D	~~EPJ~~
12672-29-6	Aroclor-1248	47	UJ
11097-69-1	Aroclor-1254	~~600~~ 1100D	~~EJ~~
11096-82-5	Aroclor-1260	190	PJ
Surrogate amount spiked		9.44	

2070

apply this results

TBS 10-11-01

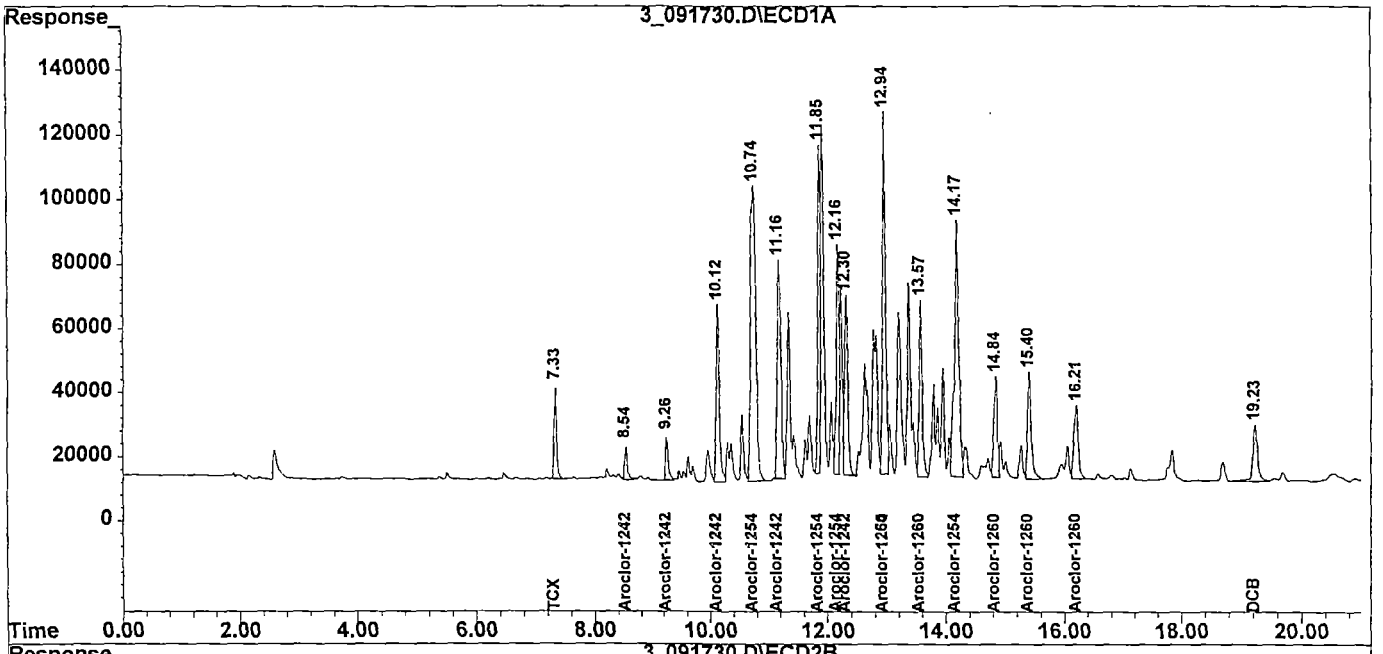
Chromatographic Report

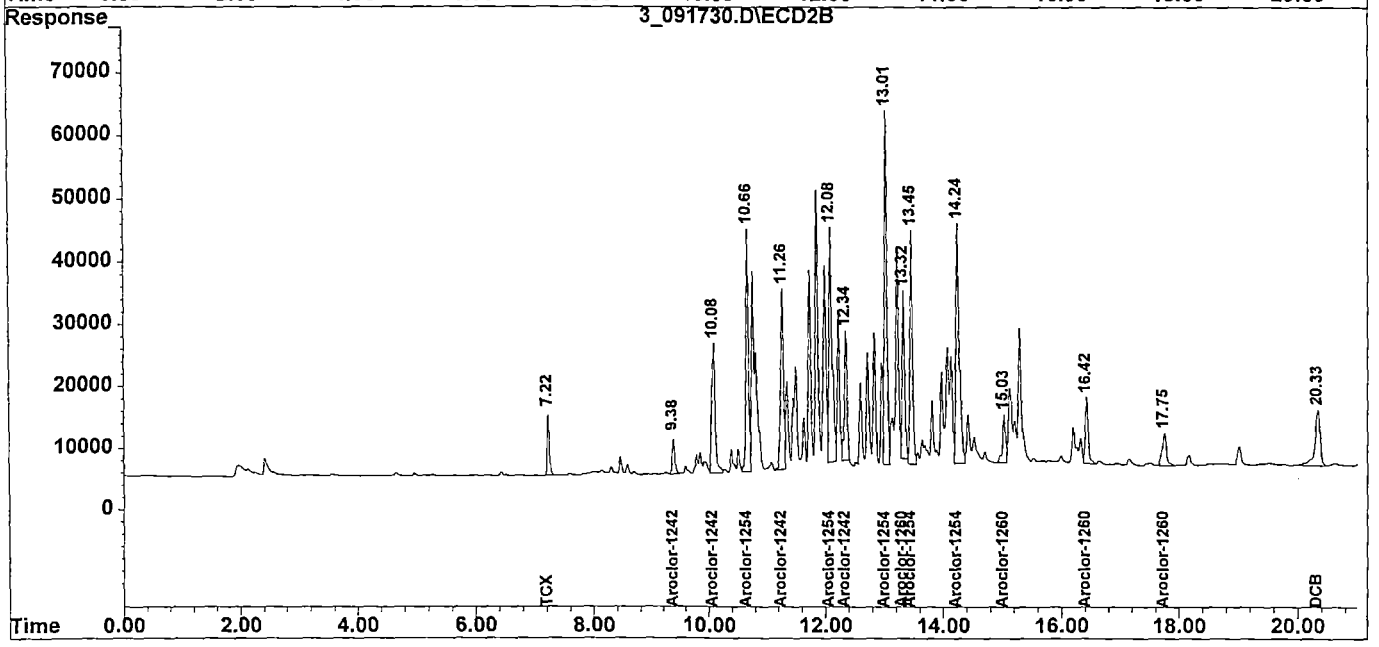
Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091730.D\ECD1A.CH Vial: 30
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091730.D\ECD2B.CH
Acq On : 18 Sep 2001 5:26 Operator: BTB
Sample : 47348.10 ✓,*E03D6 ✓ * Inst : HP_03
Misc : *EPA*30.7G/5.0ML*31 ✓ Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 11:12 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

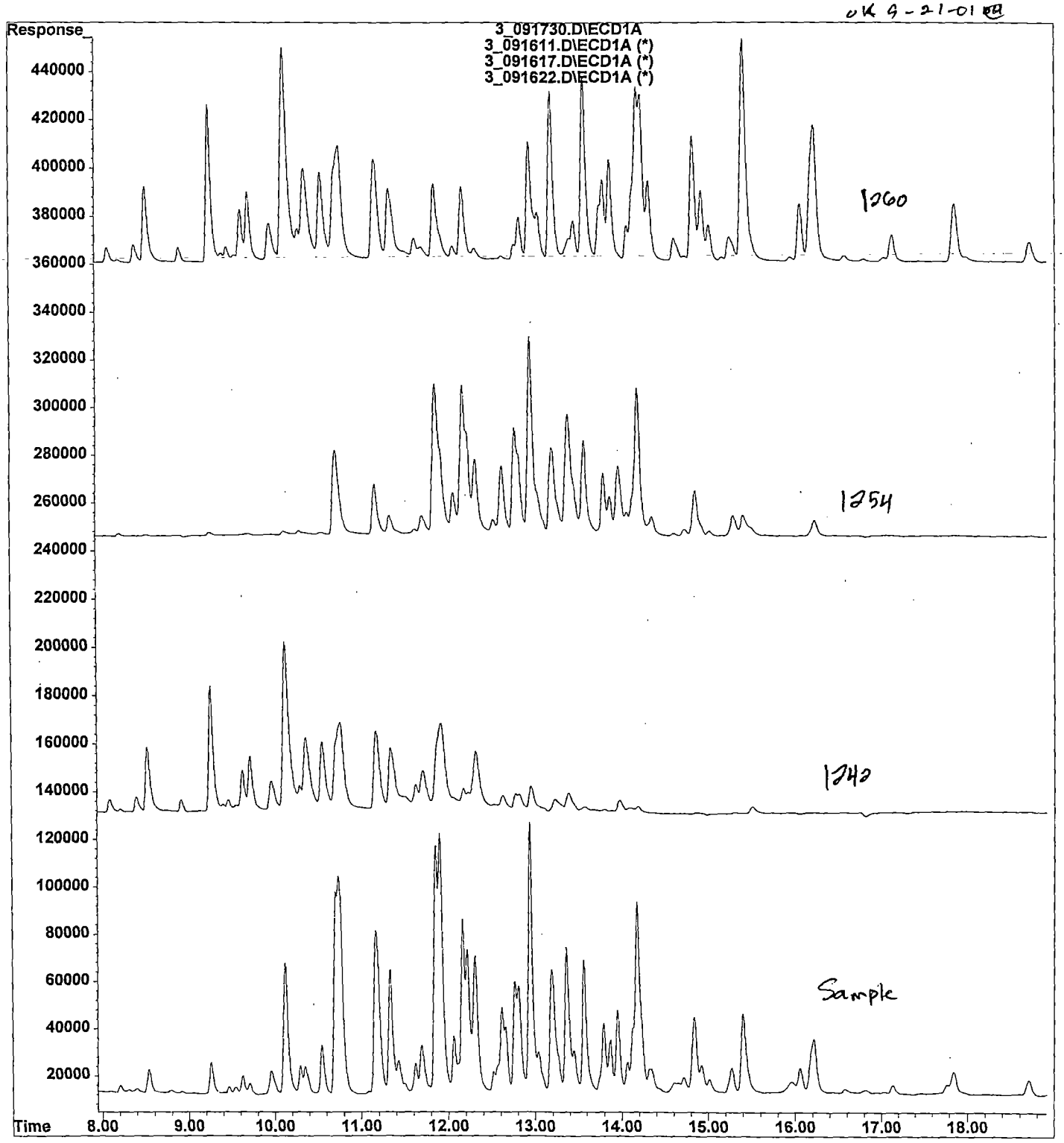
OK 9-21-01





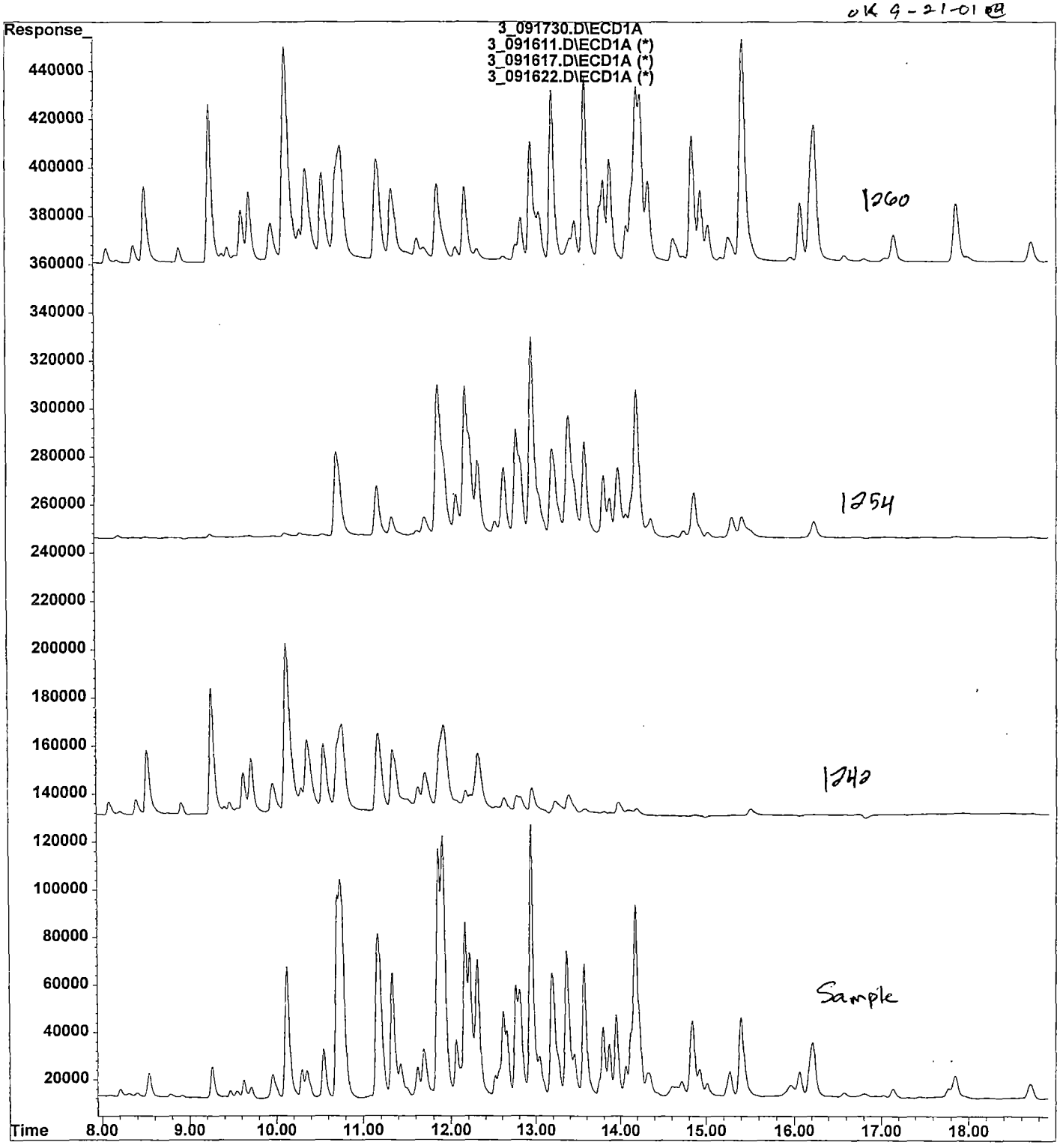
File : F:\HPCHEM\HP\3\DATA\09_17_01\3_091730.D
Operator : BTB
Acquired : 18 Sep 2001 5:26 using AcqMethod OLM03.M
Instrument : HP_03
Sample Name: 47348.10 *E03D6 *
Misc Info : *EPA*30.7G/5.0ML*31
Vial Number: 30

OK 9-21-01



File : F:\HPCHEM\HP\3\DATA\09_17_01\3_091730.D
Operator : BTB
Acquired : 18 Sep 2001 5:26 using AcqMethod OLM03.M
Instrument : HP_03
Sample Name: 47348.10 *E03D6 *
Misc Info : *EPA*30.7G/5.0ML*31
Vial Number: 30

ok 9-21-01



Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091730.D\ECD1A.CH Vial: 30
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091730.D\ECD2B.CH
Acq On : 18 Sep 2001 5:26 Operator: BTB
Sample : 47348.10 *E03D6 * Inst : HP_03
Misc : *EPA*30.7G/5.0ML*31 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 11:12 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

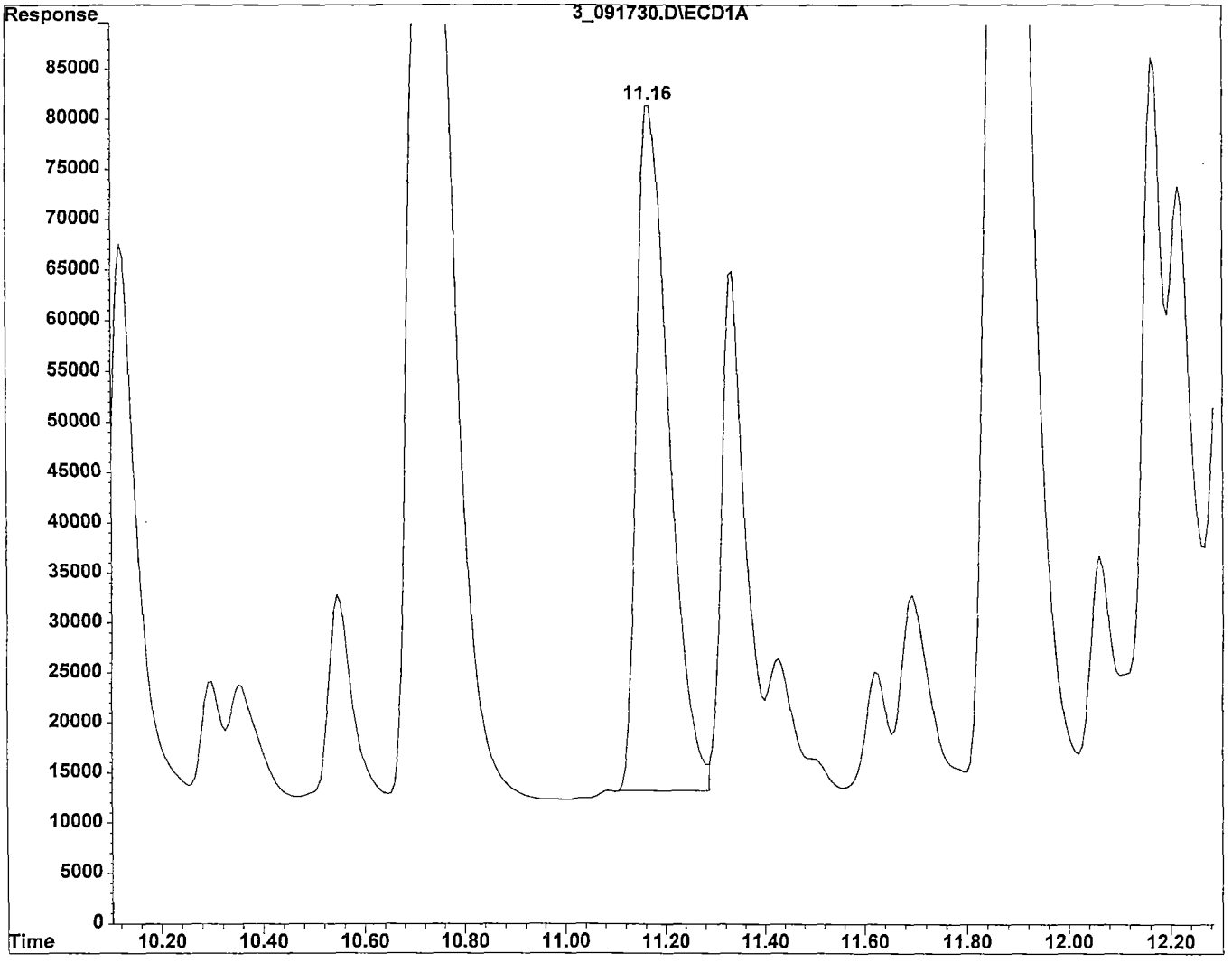
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	860642	263704	7.494	7.681
	Spiked Amount 9.442			Recovery	=	79.37%	81.35%
22)	S DCB	19.24	20.34	1000464	575163	8.395	11.1 #
	Spiked Amount 9.442			Recovery	=	✓88.92%	✓117.57%
	Target Compounds:						
7)	L4 Aroclor-1242	8.54	0.00	370175	0	154.5	N.D. d #
8)	L4 Aroclor-1242 {2}	9.26	9.39	439988	193047	105.3	132.7 #
9)	L4 Aroclor-1242 {3}	10.12	10.08	2119305	893136	275.0	318.8
10)	L4 Aroclor-1242 {4}	11.16	11.27	3062312	1002850	905.3mE BTB 091901	1094.1 E
11)	L4 Aroclor-1242 {5}	12.31	12.35	2242901	663085	850.8 E	814.9 E
	Sum Aroclor-1242			8234681	2752118	2290.8	2360.5
	Average Aroclor-1242					458.164	590.135
12)	L6 Aroclor-1254	10.74	10.66	5836398	1200462	1362.2 E	1162.9 E
13)	L6 Aroclor-1254 {2}	11.86	12.08	2569477	1461310	323.8	628.7 E#
14)	L6 Aroclor-1254 {3}	12.16	13.02	2067834	1769334	284.9	568.0 #
15)	L6 Aroclor-1254 {4}	12.94	13.45	3723171	1122404	445.3	652.7 E#
16)	L6 Aroclor-1254 {5}	14.18	14.24	3976550	1583086	587.2	687.7 E
	Sum Aroclor-1254			18173430	7136596	3003.3	3699.9
	Average Aroclor-1254					600.665	739.979
17)	L7 Aroclor-1260	12.94	13.31	3723171	819900	823.1 E	307.6m # BTB 091901
18)	L7 Aroclor-1260 {2}	13.57	0.00	1933756	0	281.0m	N.D. d #
19)	L7 Aroclor-1260 {3}	14.84	15.03	1228950	262055	279.3	114.6 #
20)	L7 Aroclor-1260 {4}	15.40	16.42	1450858	389461	146.5	166.1
21)	L7 Aroclor-1260 {5}	16.22	17.76	1220880	288263	161.9	174.4
	Sum Aroclor-1260			9557615	1759679	798.7	360.0
	Average Aroclor-1260					338.361	190.660

(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\3\DATA\09_17_01\3_091730.D
Date Acquired: 18 Sep 2001 5:26
Inst: HP_03 Operator ID: BTB
Name: 47348.10 *E03D6 *
Misc: *EPA*30.7G/5.0ML*31
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:12 2001 Quant Results File: XPCBI16.RES



OK 9-21-01

Aroclor-1242 {4} 11.16min area: 3062312 m

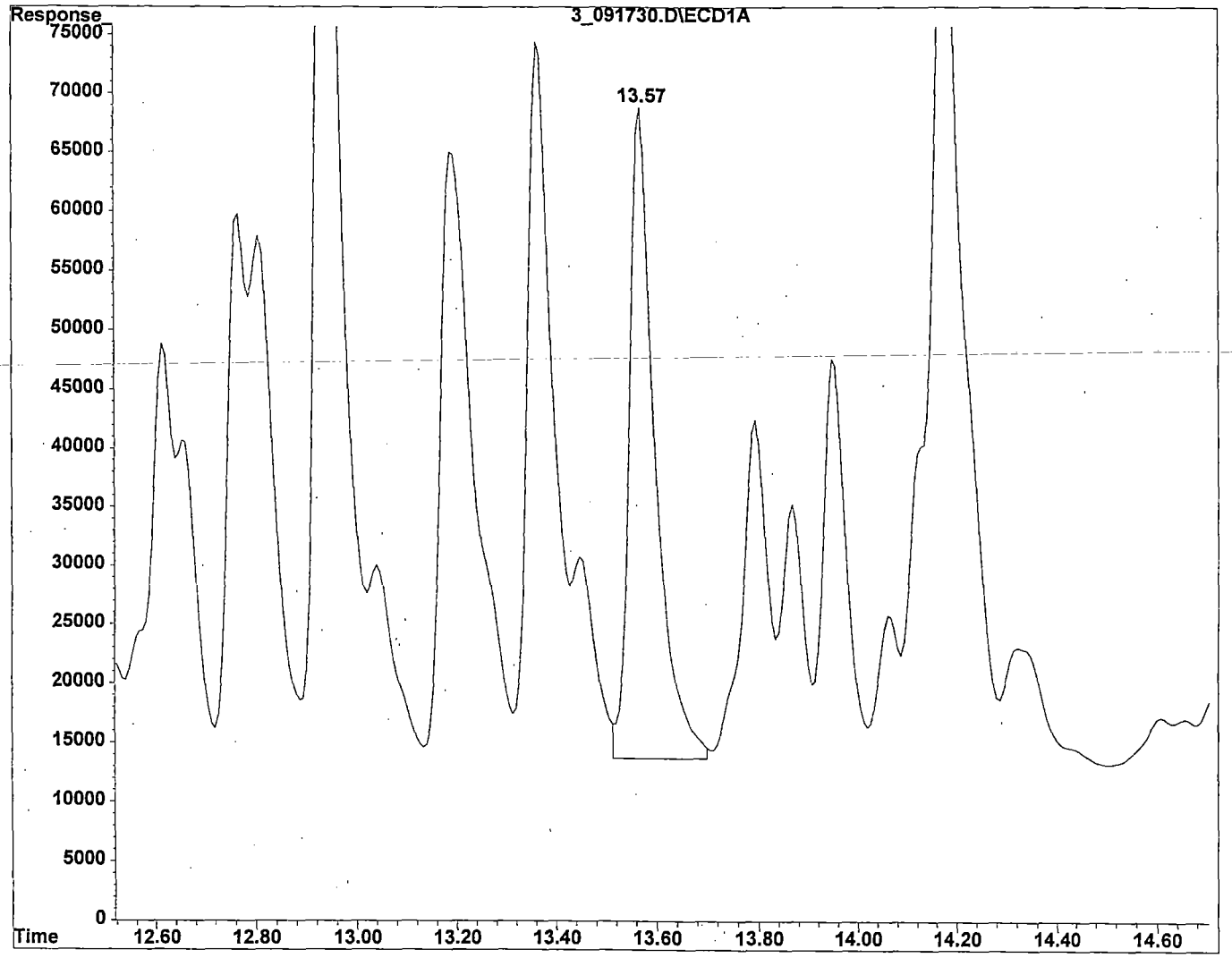
Integration Time Range: 11.10 - 11.28

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091730.D
Report generated: Wed Sep 19 11:23:52 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091730.D
Date Acquired: 18 Sep 2001 5:26
Inst: HP_03 Operator ID: BTB
Name: 47348.10 *E03D6 *
Misc: *EPA*30.7G/5.0ML*31
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:12 2001 Quant Results File: XPCBI16.RES



OK 9-21-01

Aroclor-1260 {2} 13.57min area: 1933756 m

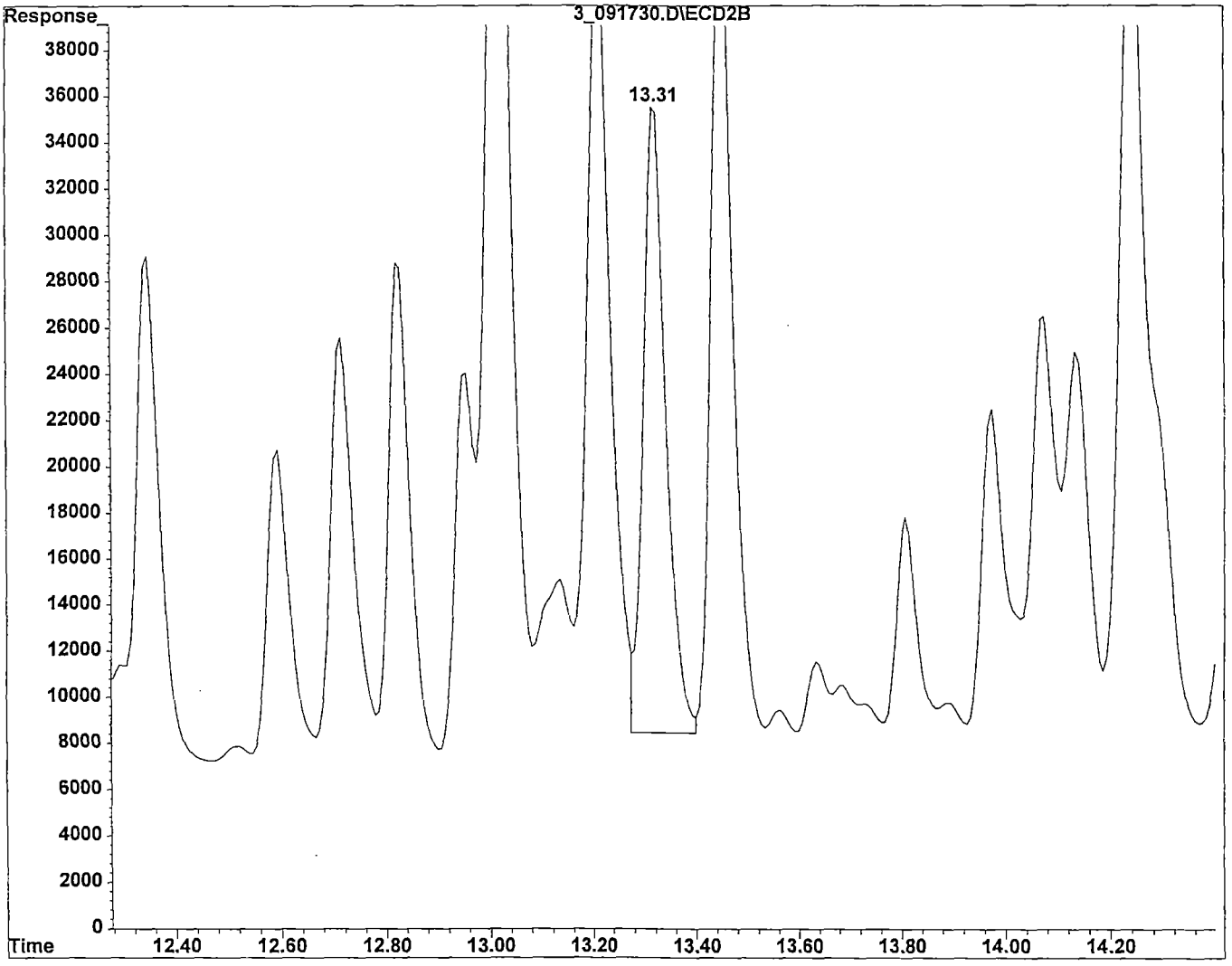
Integration Time Range: 13.52 - 13.70

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091730.D
Report generated: Wed Sep 19 11:23:53 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091730.D
Date Acquired: 18 Sep 2001 5:26
Inst: HP_03 Operator ID: BTB
Name: 47348.10 *E03D6 *
Misc: *EPA*30.7G/5.0ML*31
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:12 2001 Quant Results File: XPCBI16.RES



ck 9-21-01

Aroclor-1260 #2 13.31min area: 819900 m

Integration Time Range: 13.28 - 13.40

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091730.D
Report generated: Wed Sep 19 11:23:53 2001

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E03D6DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Matrix: (soil/water) SOIL Lab Sample ID: 47348.10DL

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

% Moisture: 31 decanted: (Y/N) __ Date Received: 08/20/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/23/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/19/01

Injection Volume: 0.5(uL) Dilution Factor: 10.0

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	470	U
11104-28-2	Aroclor-1221	470	U
11141-16-5	Aroclor-1232	470	U
53469-21-9	Aroclor-1242	780	D
12672-29-6	Aroclor-1248	470	U
11097-69-1	Aroclor-1254	1100	D
11096-82-5	Aroclor-1260	380	DJP
Surrogate amount spiked		9.44	

TBS
10-11-01

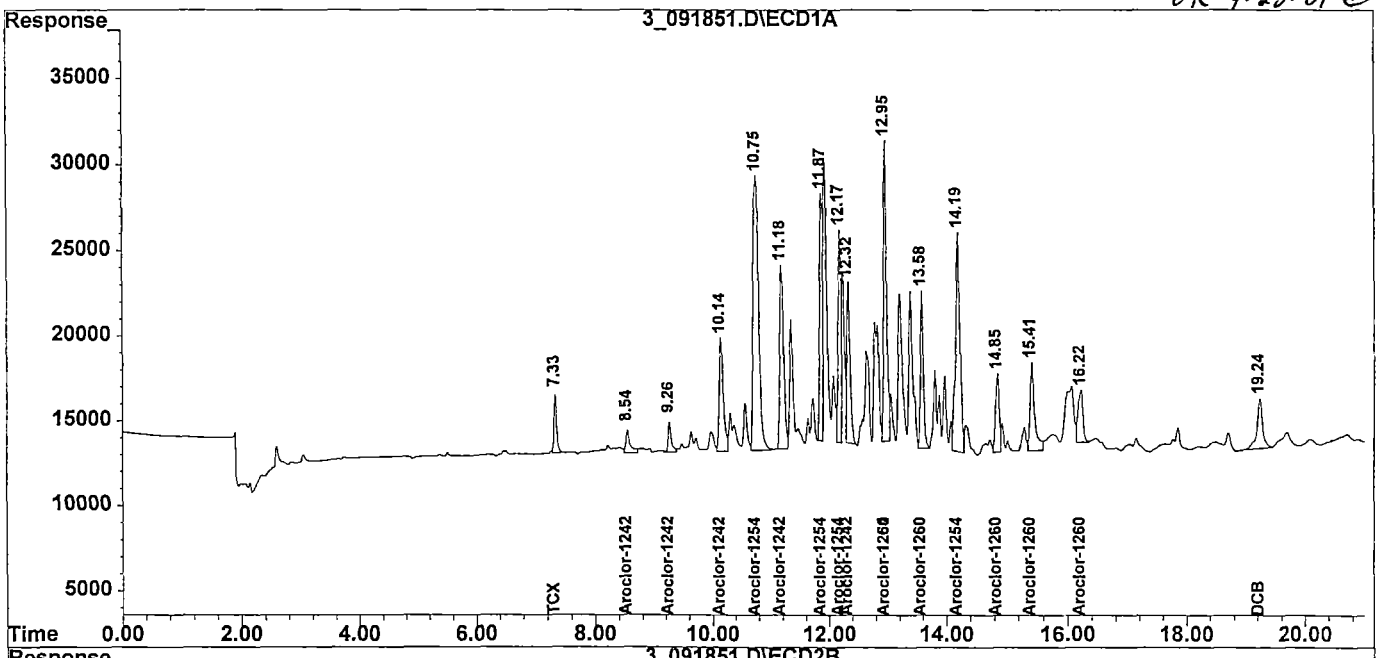
Chromatographic Report

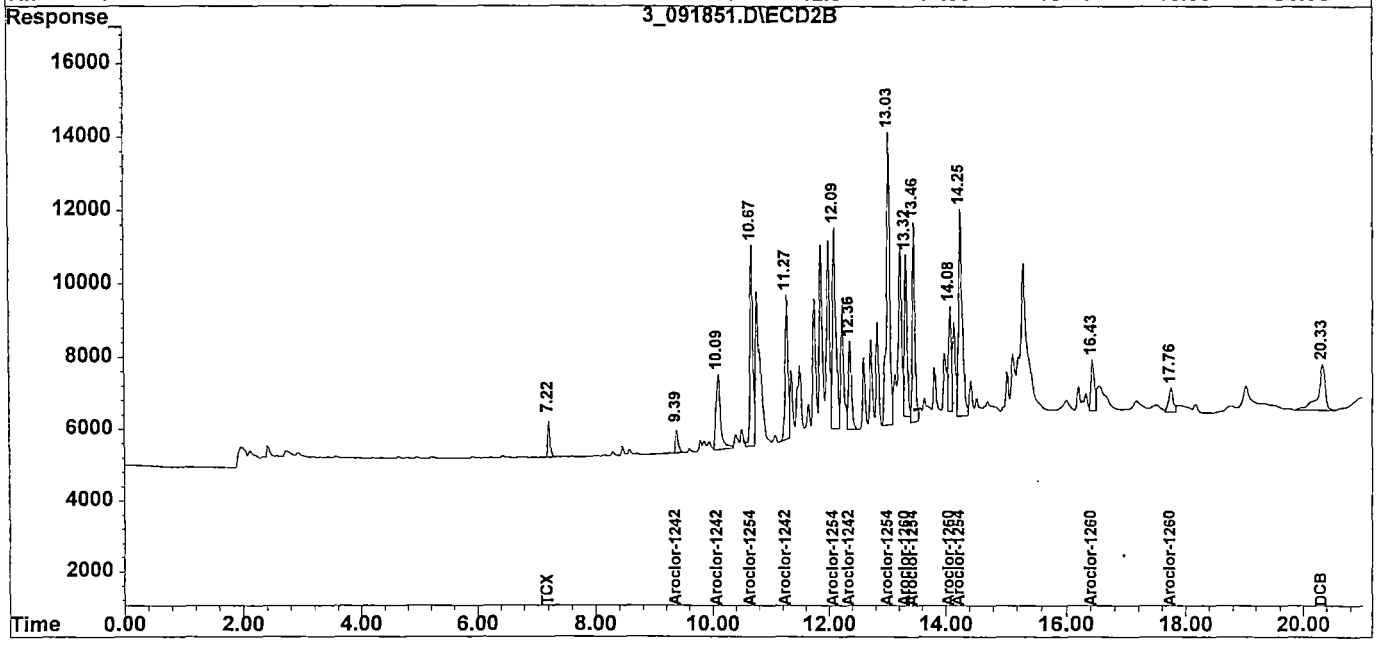
Signal #1 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091851.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091851.D\ECD2B.CH
Acq On : 19 Sep 2001 21:14 Operator: BTB
Sample : 47348.10DL *E03D6DL * Inst : HP_03
Misc : *EPA*30.7G/50ML*31 Dilution: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 9:22 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

OK 9-25-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091851.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091851.D\ECD2B.CH
Acq On : 19 Sep 2001 21:14 Operator: BTB
Sample : 47348.10DL *E03D6DL * Inst : HP_03
Misc : *EPA*30.7G/5.0ML*31 Dilution: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 9:22 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

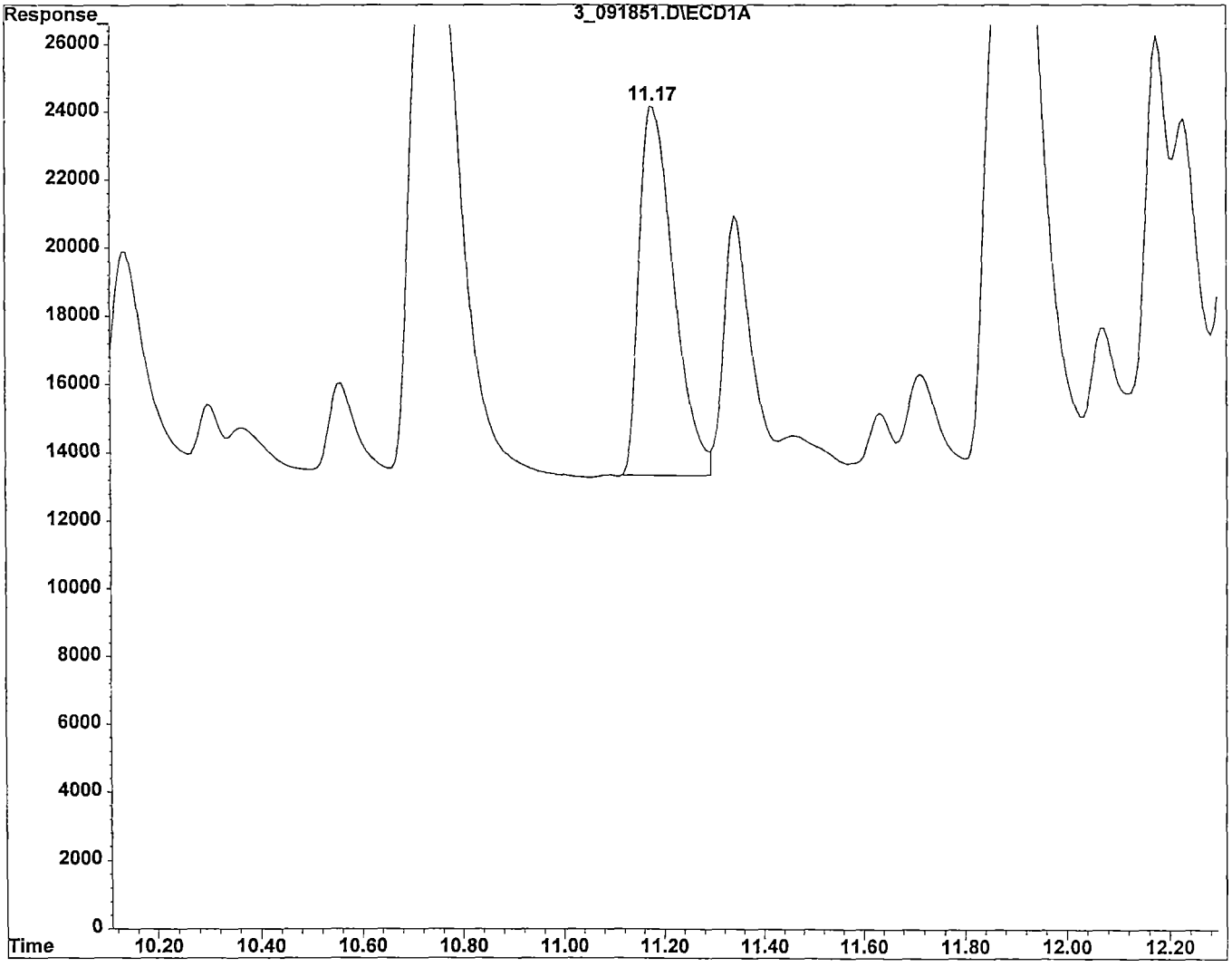
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	100394	26618	8.741	7.753
	Spiked Amount 9.442			Recovery	=	92.58%	82.12%
22)	S DCB	19.24	20.34	192920	110050	16.2m BTB 092001	21.2 #
	Spiked Amount 9.442			Recovery	=	171.58%	224.54%
	Target Compounds:						
7)	L4 Aroclor-1242	8.54	0.00	68571	0	286.1	N.D. d #
8)	L4 Aroclor-1242 {2}	9.26	9.39	70205	21088	168.0	145.0
9)	L4 Aroclor-1242 {3}	10.14	10.10	337126	117564	437.4	419.7
10)	L4 Aroclor-1242 {4}	11.17	11.28	517240	134394	1529.1m	1466.2
11)	L4 Aroclor-1242 {5}	12.32	12.36	396808	88380	1505.2	1086.2m # BTB 092001
	Sum Aroclor-1242			1389950	361427	3925.8	3117.0
	Average Aroclor-1242					785.166	779.257
12)	L6 Aroclor-1254	10.75	10.67	1098836	183670	2564.6	1779.2 #
13)	L6 Aroclor-1254 {2}	11.87	12.09	440080	232840	554.5	1001.7m #
14)	L6 Aroclor-1254 {3}	12.18	13.03	391092	318157	538.9	1021.3 #
15)	L6 Aroclor-1254 {4}	12.95	13.46	631021	173830	754.6	1010.8 #
16)	L6 Aroclor-1254 {5}	14.19	14.25	669018	248099	987.9	1077.8
	Sum Aroclor-1254			3230047	1156596	5400.6	5890.8
	Average Aroclor-1254					1080.115	1178.156
17)	L7 Aroclor-1260	12.95	13.33	631021	137976	1395.0	517.6m #
18)	L7 Aroclor-1260 {2}	13.57	14.08	321060	93652	466.6m	538.3m
19)	L7 Aroclor-1260 {3}	14.85	0.00	194352	0	441.7	N.D. d #
20)	L7 Aroclor-1260 {4}	15.41	16.44	268916	56421	271.6m	240.6
21)	L7 Aroclor-1260 {5}	16.22	17.76	178711	37509	237.0	226.9
	Sum Aroclor-1260			1594060	325559	13273.9	7192.0
	Average Aroclor-1260					562.361	380.869

(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\3\DATA\09_18_01\3_091851.D
Date Acquired: 19 Sep 2001 21:14
Inst: HP_03 Operator ID: BTB
Name: 47348.10DL *E03D6DL *
Misc: *EPA*30.7G/5.0ML*31
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 9:22 2001 Quant Results File: XPCBI16.RES



OK P-2501 [illegible]

Aroclor-1242 {4} 11.17min area: 517240 m

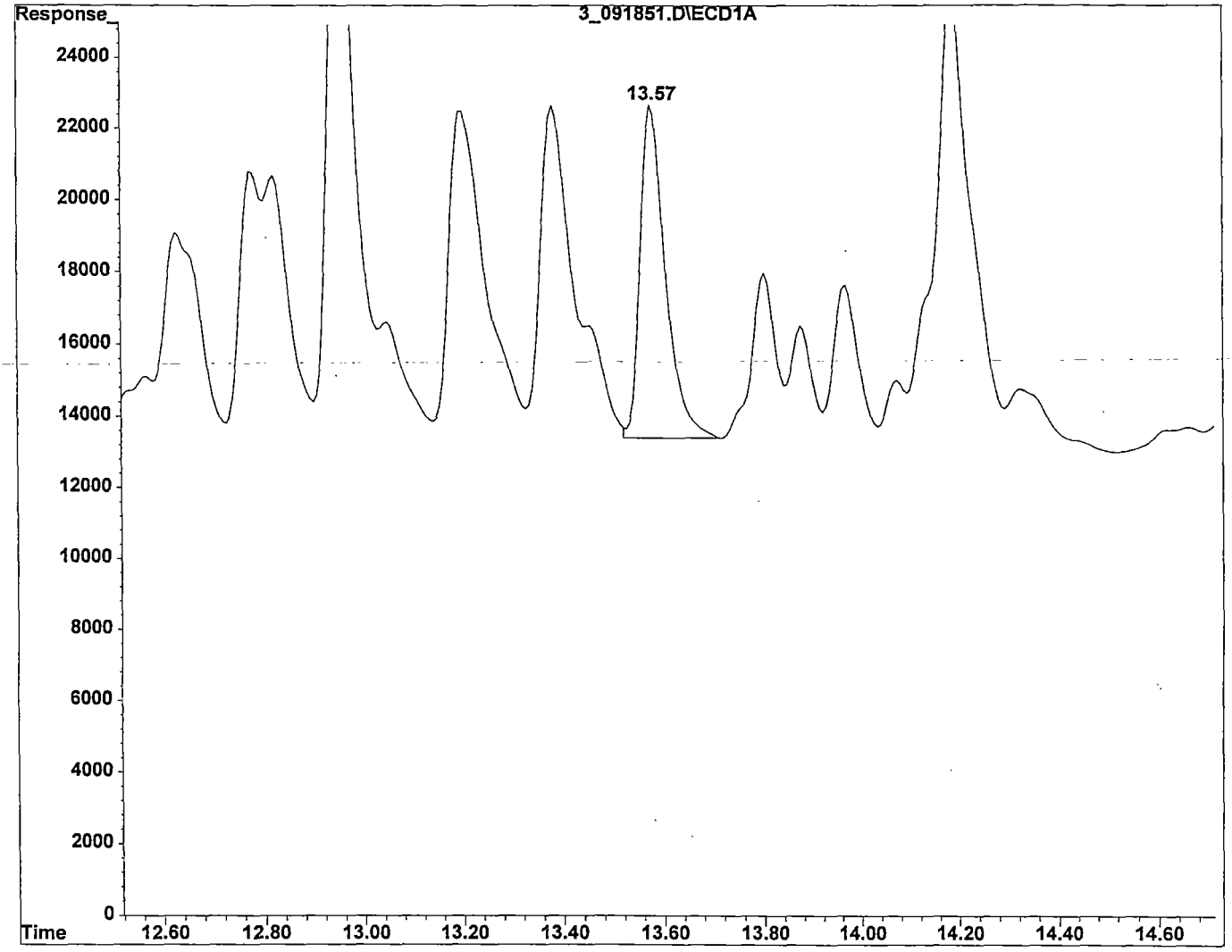
Integration Time Range: 11.11 - 11.29

BTB 092001

F:\HPCHEM\HP\3\DATA\09_18_01\3_091851.D
Report generated: Thu Sep 20 09:48:01 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_18_01\3_091851.D
Date Acquired: 19 Sep 2001 21:14
Inst: HP_03 Operator ID: BTB
Name: 47348.10DL *E03D6DL *
Misc: *EPA*30.7G/5.0ML*31
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 9:22 2001 Quant Results File: XPCBI16.RES



OK 9-25-01

Aroclor-1260 {2} 13.57min area: 321060 m

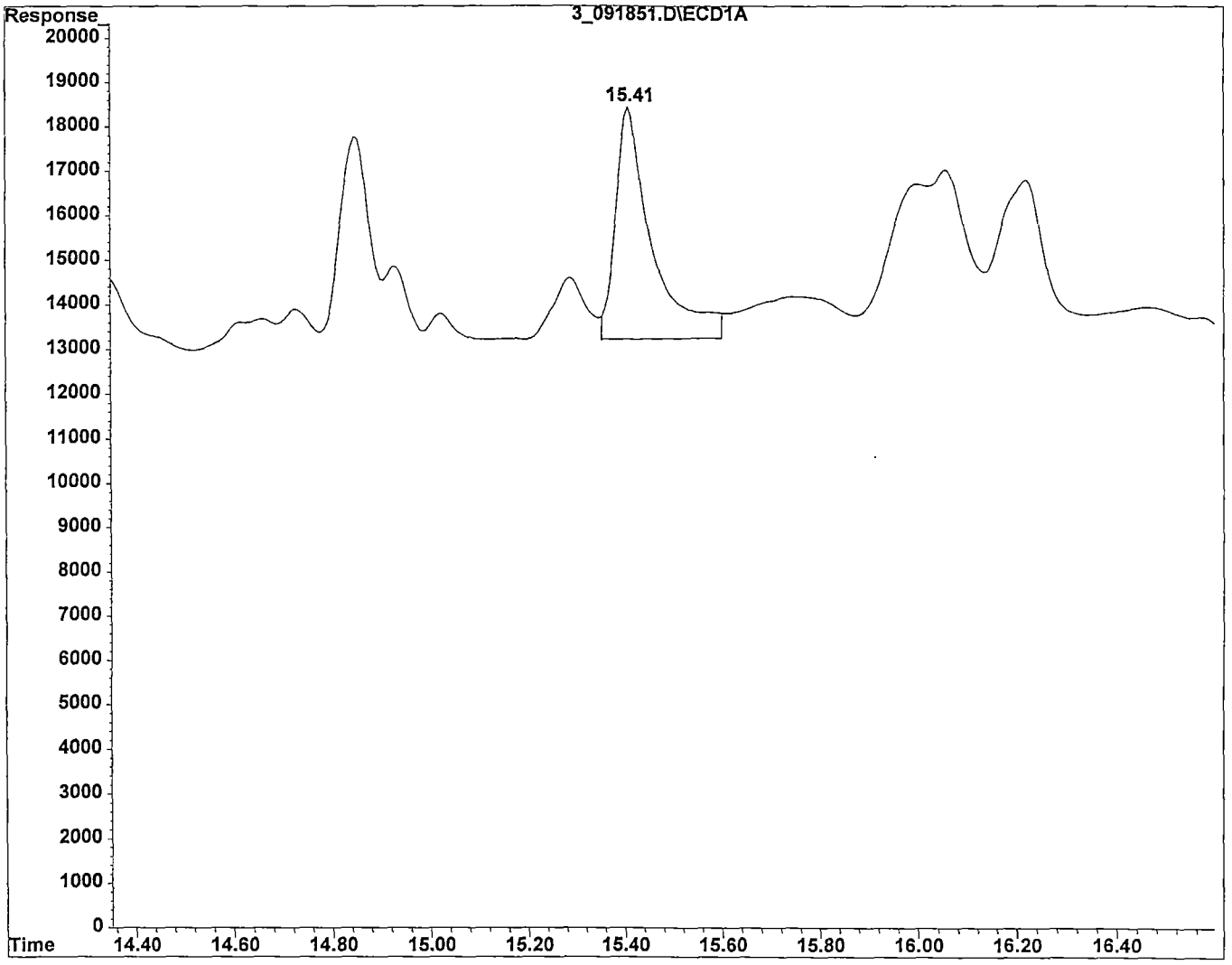
Integration Time Range: 13.52 - 13.71

BTB 092001

F:\HPCHEM\HP\3\DATA\09_18_01\3_091851.D
Report generated: Thu Sep 20 09:48:02 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_18_01\3_091851.D
Date Acquired: 19 Sep 2001 21:14
Inst: HP_03 Operator ID: BTB
Name: 47348.10DL *E03D6DL *
Misc: *EPA*30.7G/5.0ML*31
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 9:22 2001 Quant Results File: XPCBI16.RES



OK 9-25-01 RB

Aroclor-1260 {4} 15.41min area: 268916 m

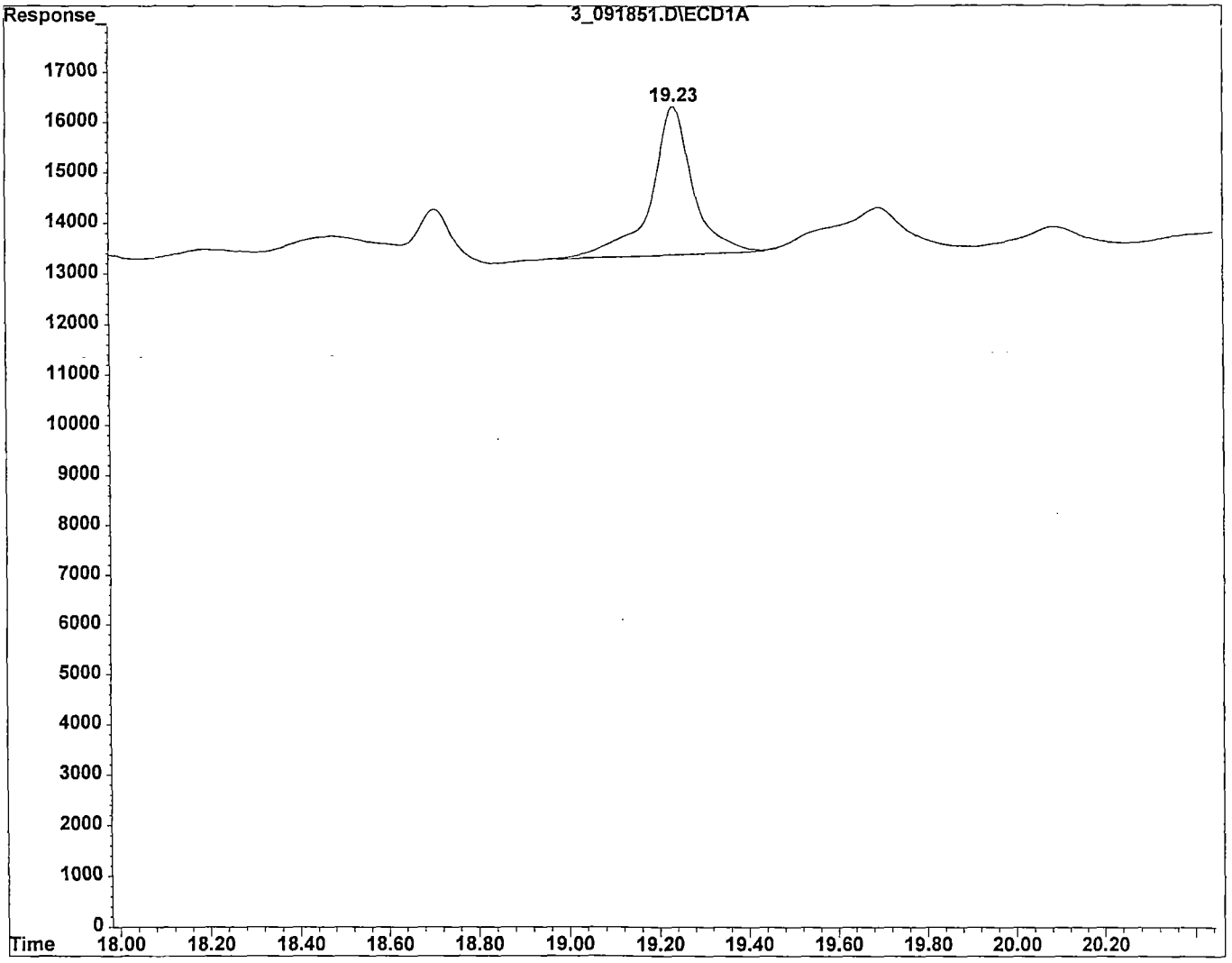
Integration Time Range: 15.35 - 15.60

BTB 092001

F:\HPCHEM\HP\3\DATA\09_18_01\3_091851.D
Report generated: Thu Sep 20 09:48:02 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_18_01\3_091851.D
Date Acquired: 19 Sep 2001 21:14
Inst: HP_03 Operator ID: BTB
Name: 47348.10DL *E03D6DL *
Misc: *EPA*30.7G/5.0ML*31
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 9:22 2001 Quant Results File: XPCBI16.RES



DCB 19.24min area: 192920 m BTB 092001

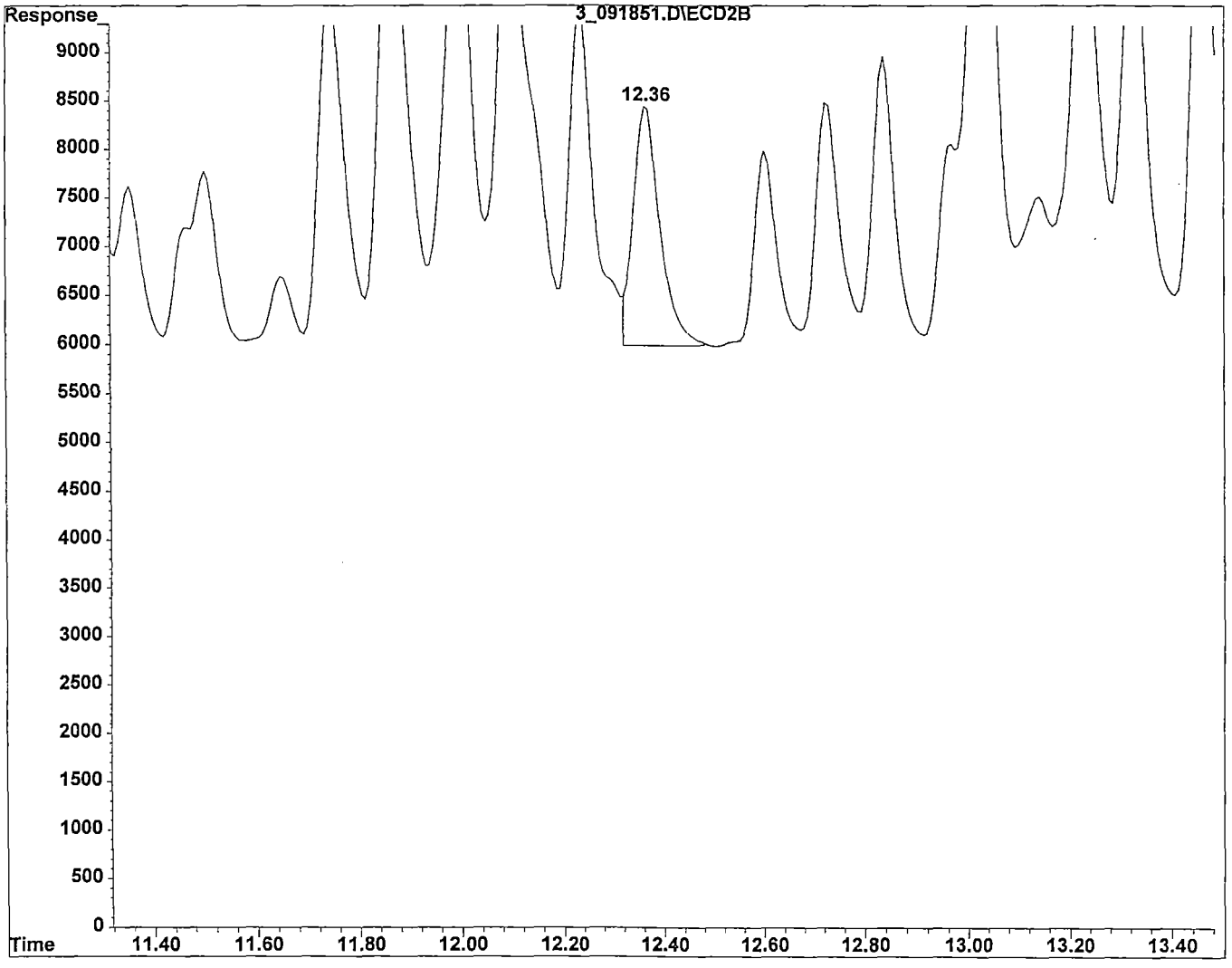
OK 9-25-01

Integration Time Range: 18.98 - 19.44

F:\HPCHEM\HP\3\DATA\09_18_01\3_091851.D
Report generated: Thu Sep 20 09:48:03 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_18_01\3_091851.D
Date Acquired: 19 Sep 2001 21:14
Inst: HP_03 Operator ID: BTB
Name: 47348.10DL *E03D6DL *
Misc: *EPA*30.7G/5.0ML*31
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 9:22 2001 Quant Results File: XPCBI16.RES



OK 9-25-01 BB

Aroclor-1242 {5} #2 12.36min area: 88380 m

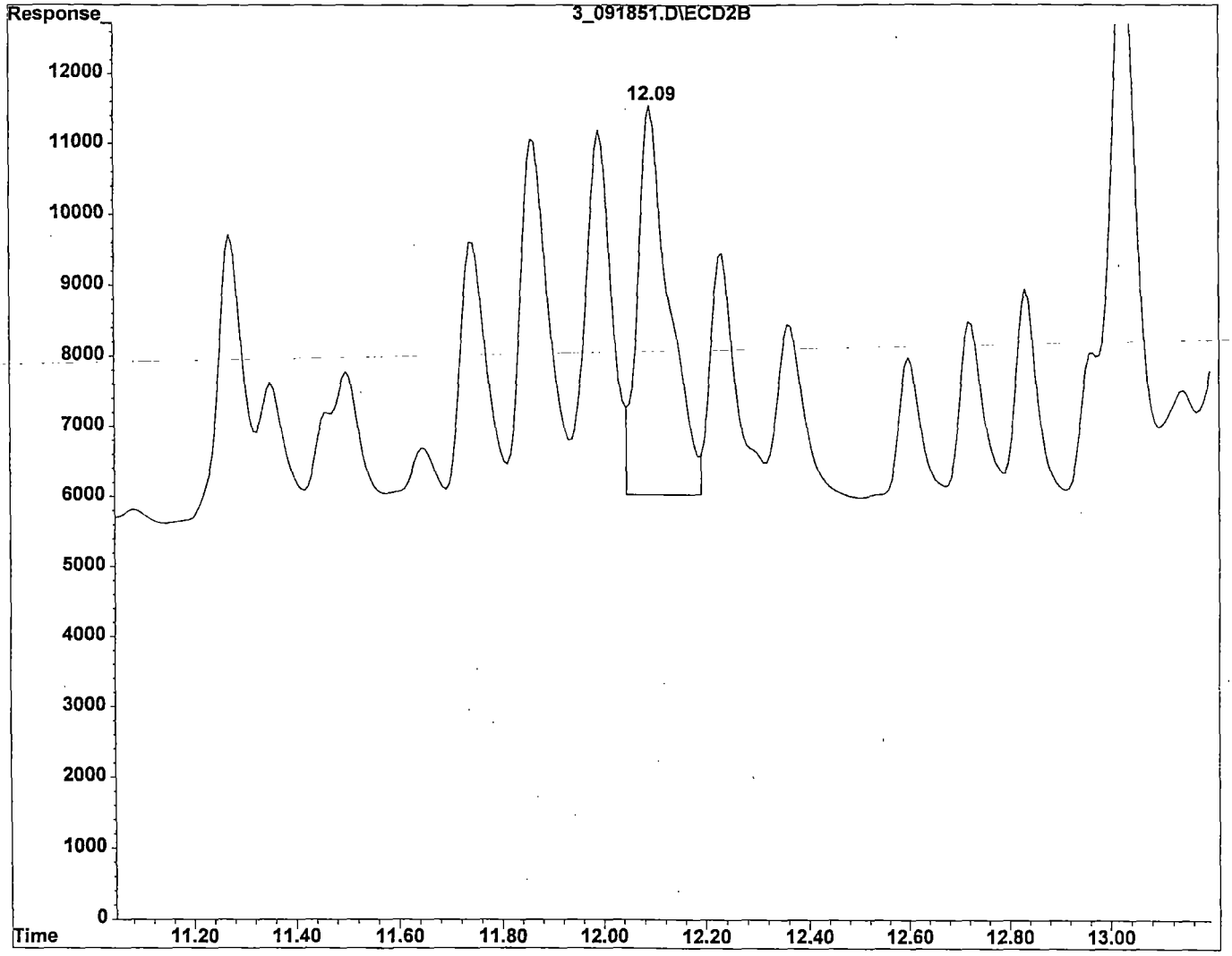
BTB 092001

Integration Time Range: 12.32 - 12.48

F:\HPCHEM\HP\3\DATA\09_18_01\3_091851.D
Report generated: Thu Sep 20 09:48:04 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_18_01\3_091851.D
Date Acquired: 19 Sep 2001 21:14
Inst: HP_03 Operator ID: BTB
Name: 47348.10DL *E03D6DL *
Misc: *EPA*30.7G/5.0ML*31
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 9:22 2001 Quant Results File: XPCBI16.RES



Aroclor-1254 {2} #2 12.09min area: 232840 m

Integration Time Range: 12.05 - 12.19

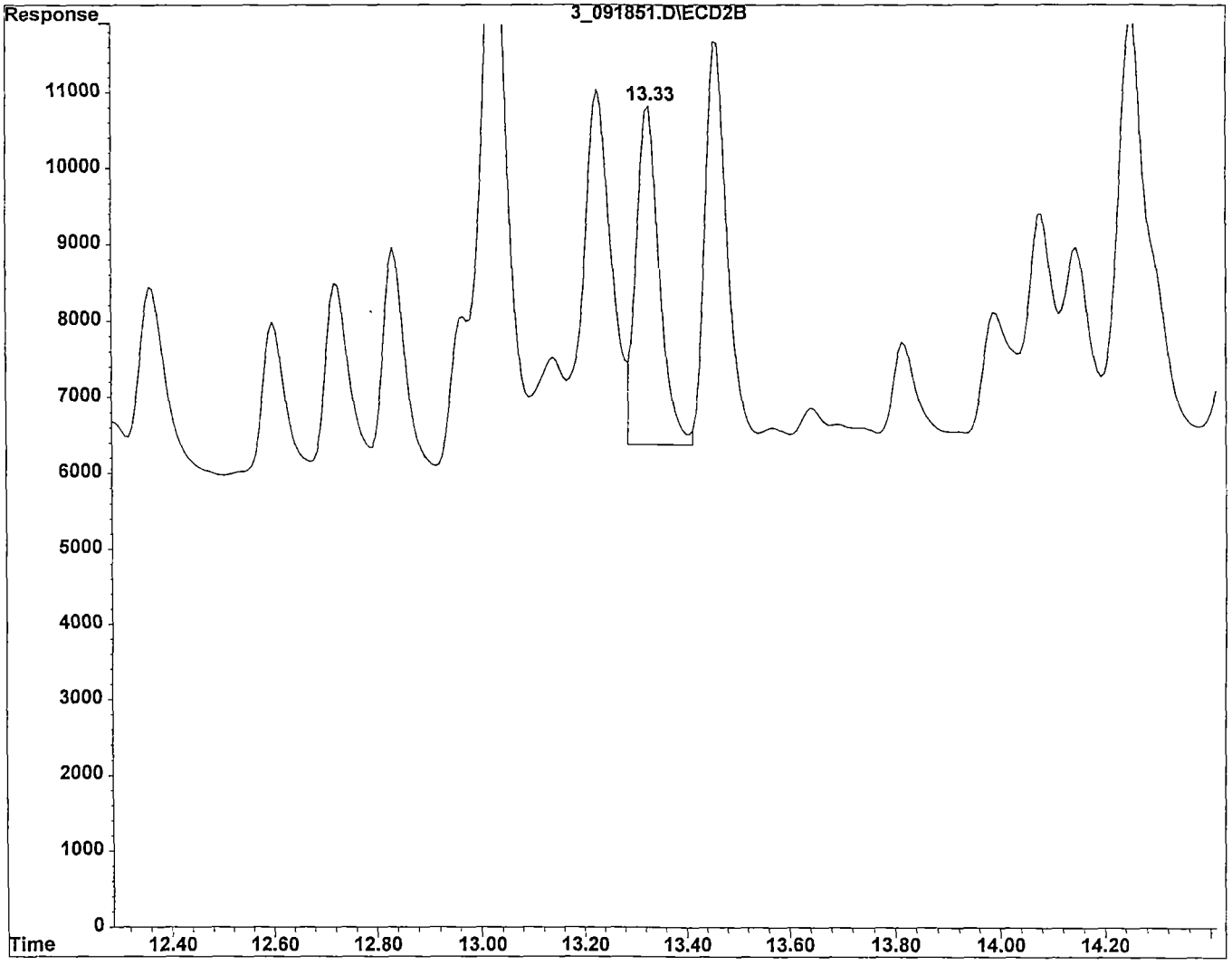
OK 9-25-01 GH

BTB
092001

F:\HPCHEM\HP\3\DATA\09_18_01\3_091851.D
Report generated: Thu Sep 20 09:48:04 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_18_01\3_091851.D
Date Acquired: 19 Sep 2001 21:14
Inst: HP_03 Operator ID: BTB
Name: 47348.10DL *E03D6DL *
Misc: *EPA*30.7G/5.0ML*31
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 9:22 2001 Quant Results File: XPCBI16.RES



OK 9-25-01 BM

Aroclor-1260 #2 13.33min area: 137976 m

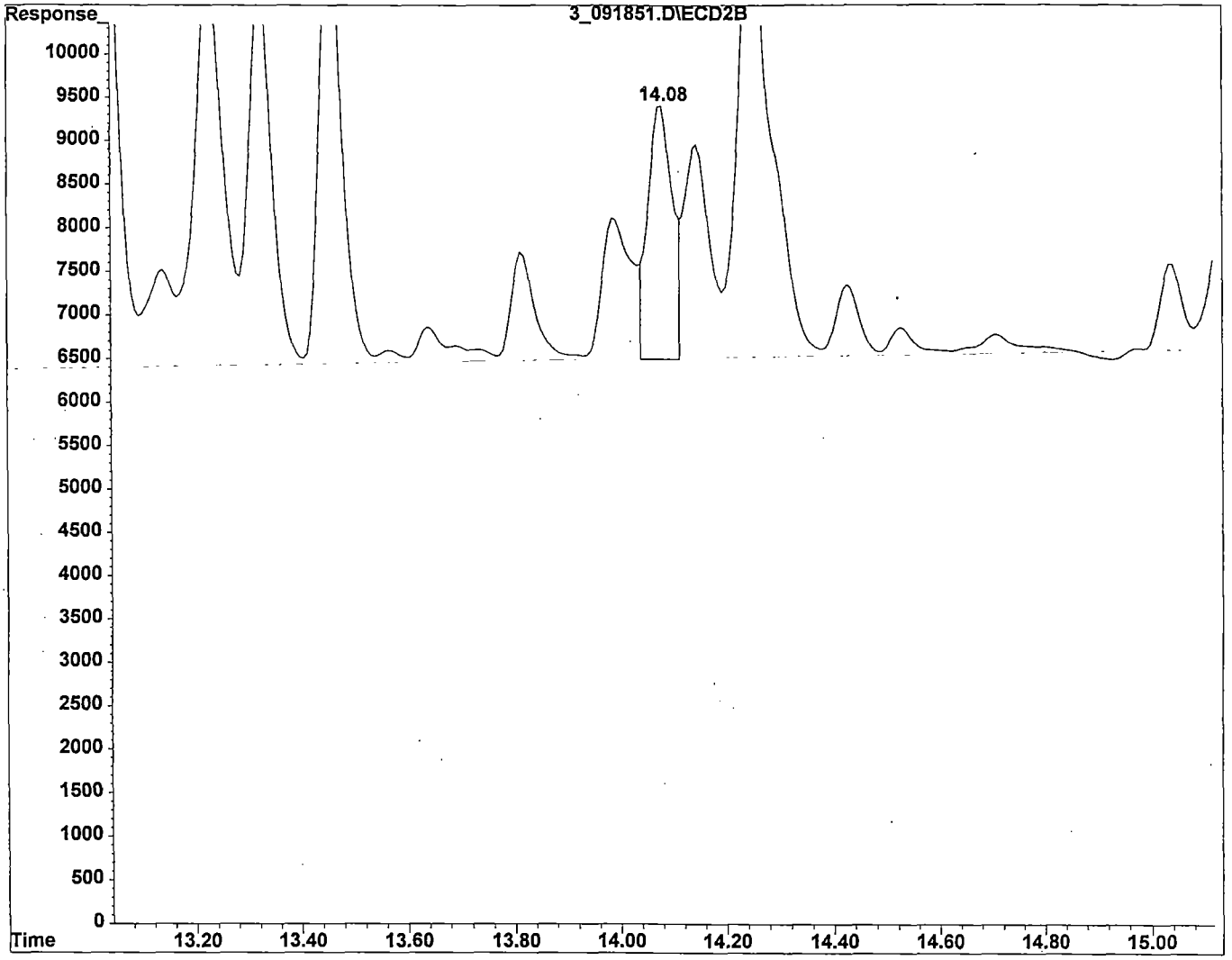
Integration Time Range: 13.29 - 13.41

BTB 092001

F:\HPCHEM\HP\3\DATA\09_18_01\3_091851.D
Report generated: Thu Sep 20 09:48:05 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_18_01\3_091851.D
Date Acquired: 19 Sep 2001 21:14
Inst: HP_03 Operator ID: BTB
Name: 47348.10DL *E03D6DL *
Misc: *EPA*30.7G/5.0ML*31
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 9:22 2001 Quant Results File: XPCBI16.RES



Aroclor-1260 {2} #2 14.08min area: 93652 m

Integration Time Range: 14.04 - 14.11

CK 9-25-01 BTB 09/20/01

F:\HPCHEM\HP\3\DATA\09_18_01\3_091851.D
Report generated: Thu Sep 20 09:48:05 2001

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E03D7

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Matrix: (soil/water) SOIL Lab Sample ID: 47348.11

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

% Moisture: 44 decanted: (Y/N) __ Date Received: 08/20/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/23/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/18/01

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	58	UJ
11104-28-2	Aroclor-1221	58	UJ
11141-16-5	Aroclor-1232	58	UJ
53469-21-9	Aroclor-1242	~~3600~~	6400D ~~EP~~ J
12672-29-6	Aroclor-1248	58	UJ
11097-69-1	Aroclor-1254	~~3900~~	7000 ~~E~~ DJ
11096-82-5	Aroclor-1260	~~1100~~	2100 ~~EP~~ DJP
Surrogate amount spiked		11.74	

15500

apply this results

TBS 10-11-01

FORM I PCB

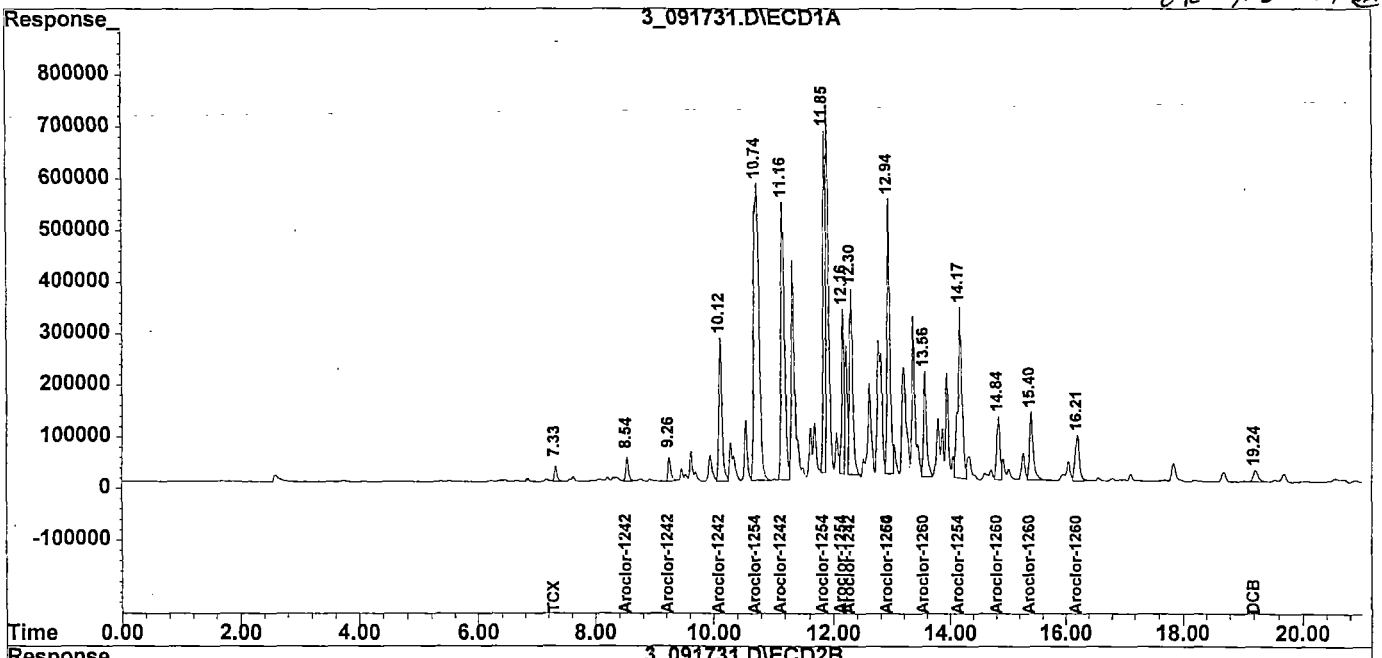
Chromatographic Report

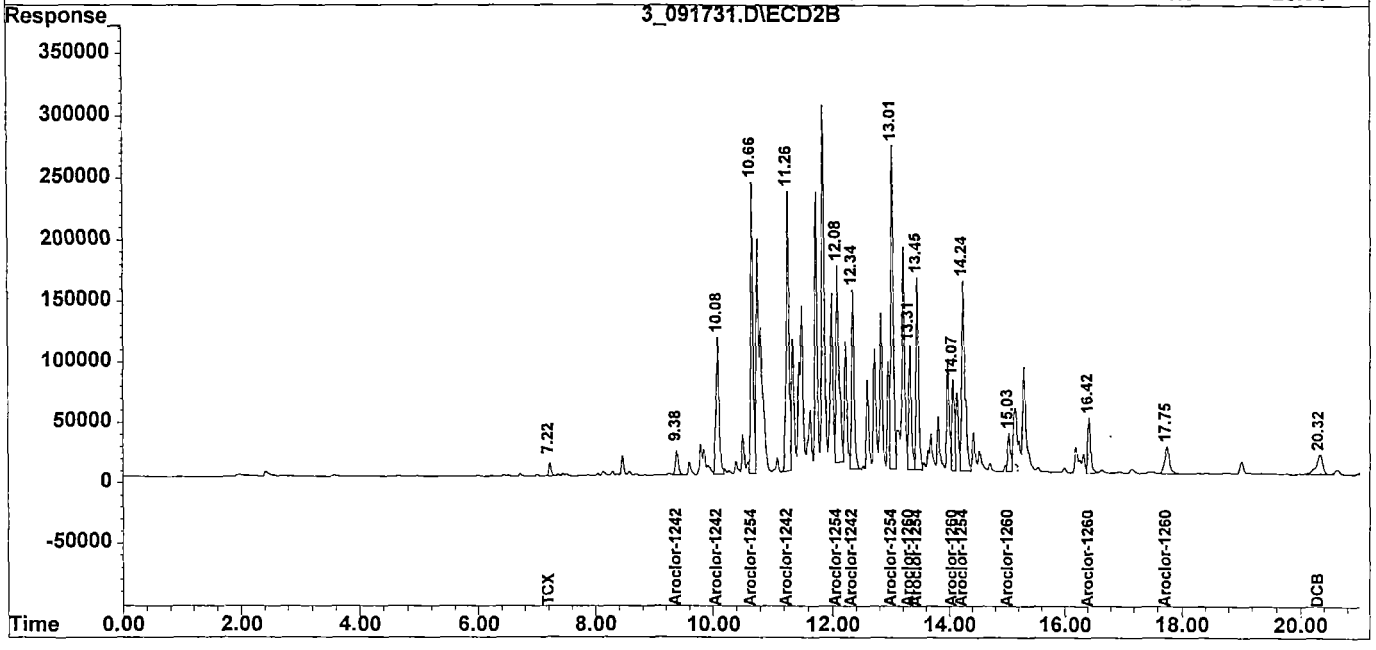
Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091731.D\ECD1A.CH Vial: 31
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091731.D\ECD2B.CH
Acq On : 18 Sep 2001 , 5:51 Operator: BTB
Sample : 47348.11 *E03D7 * Inst : HP_03
Misc : *EPA*30.4G/5.0ML*44 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 11:16 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

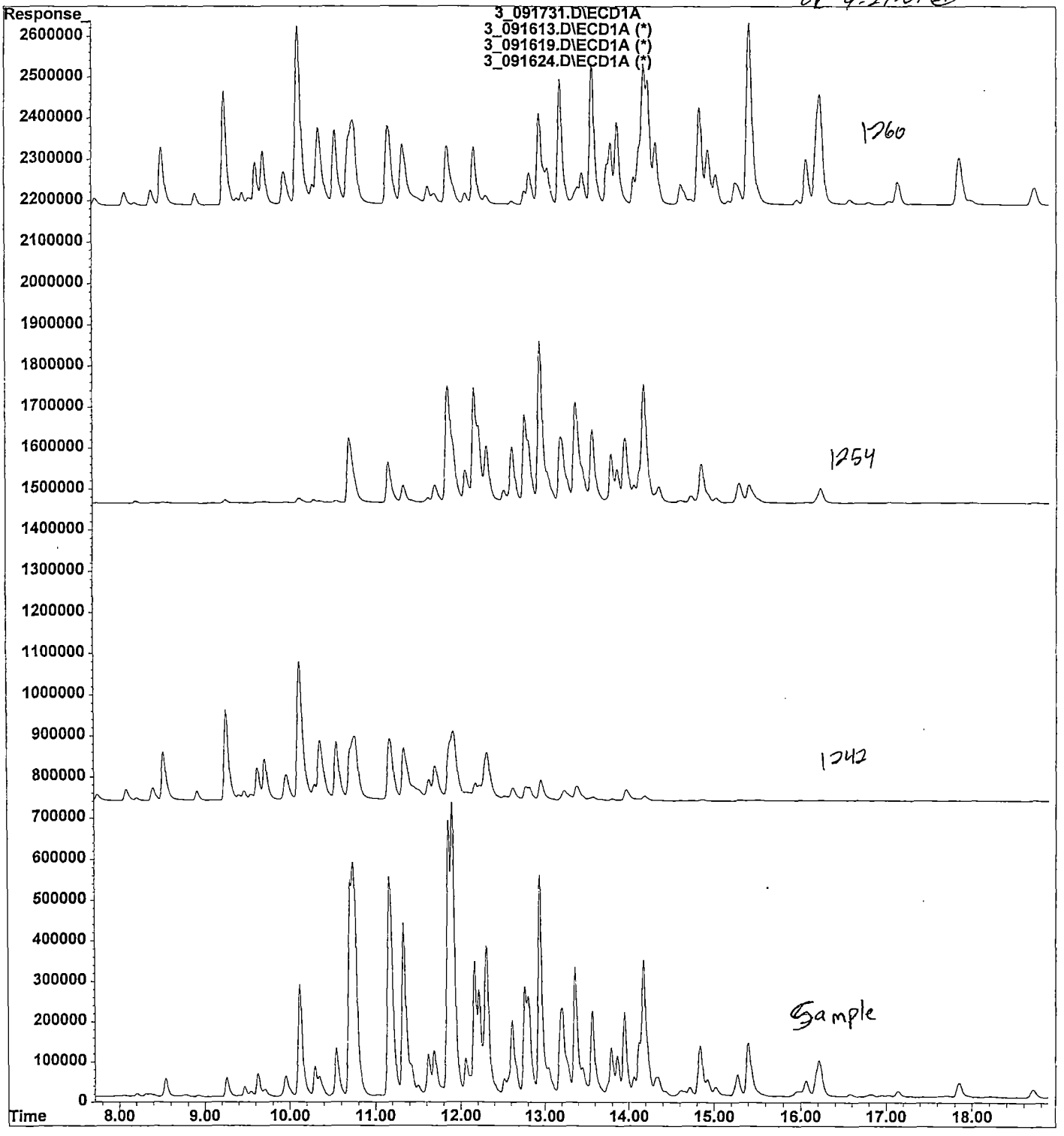
UK 9-25-01





File : F:\HPCHEM\HP\3\DATA\09_17_01\3_091731.D
Operator : BTB
Acquired : 18 Sep 2001 5:51 using AcqMethod OLM03.M
Instrument : HP_03
Sample Name: 47348.11 *E03D7 *
Misc Info : *EPA*30.4G/5.0ML*44
Vial Number: 31

OK 9-21-01



Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091731.D\ECD1A.CH Vial: 31
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091731.D\ECD2B.CH
Acq On : 18 Sep 2001 5:51 Operator: BTB
Sample : 47348.11 *E03D7 * Inst : HP_03
Misc : *EPA*30.4G/5.0ML*44 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 11:16 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

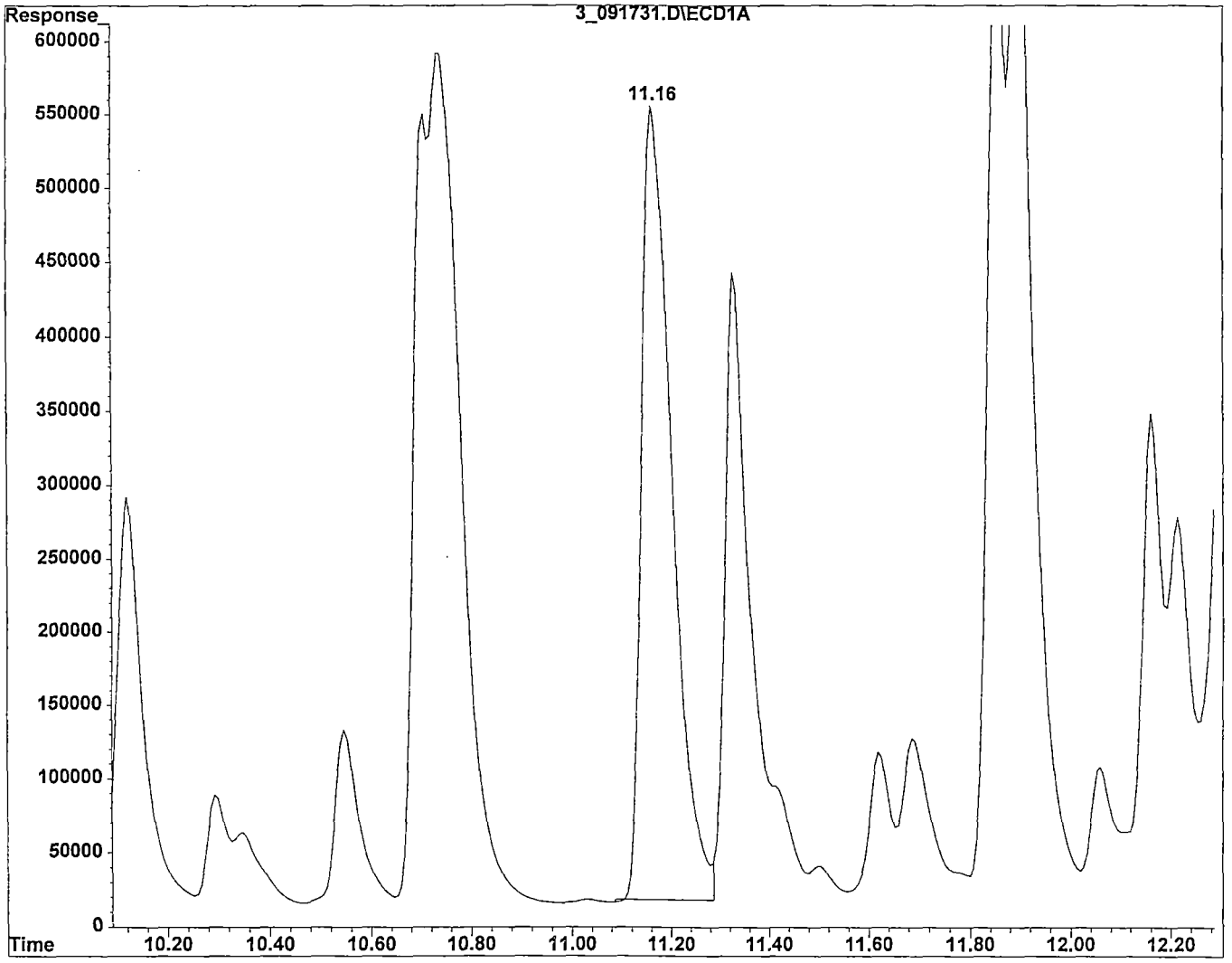
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	926442	287627	10.0	10.4
	Spiked Amount 11.748			Recovery	=	85.12%	88.52%
22)	S DCB	19.24	20.32	1240069	1245073	12.9	29.8m # BTB 091901
	Spiked Amount 11.748			Recovery	=	109.80%	253.66%
	Target Compounds:						
7)	L4 Aroclor-1242	8.54	0.00	1496865	0	777.2 E	N.D. d #
8)	L4 Aroclor-1242 {2}	9.26	9.39	1537398	729561	457.8	624.1 #
9)	L4 Aroclor-1242 {3}	10.12	10.08	9992399	4161496	1613.2 E	1848.4 E
10)	L4 Aroclor-1242 {4}	11.16	11.26	23070128	7326700	8486.4mE BTB 091901	9946.1 E
11)	L4 Aroclor-1242 {5}	12.30	12.34	14133392	4579460	6670.7 E	7003.0mE
	Sum Aroclor-1242			50230182	16797217	18005.4	19421.6
	Average Aroclor-1242					3601.075	4855.396
12)	L6 Aroclor-1254	10.74	10.66	35636053	6805353	10349.2 E	8202.8 E
13)	L6 Aroclor-1254 {2}	11.86	12.08	15253886	5792163	2391.6 E	3100.5 E#
14)	L6 Aroclor-1254 {3}	12.16	13.02	8452464	8138349	1449.3 E	3250.7 E#
15)	L6 Aroclor-1254 {4}	12.94	13.45	16948104	4708675	2522.0 E	3407.0 E#
16)	L6 Aroclor-1254 {5}	14.18	14.24	16473870	6343489	3026.8 E	3428.9 E
	Sum Aroclor-1254			92764377	31788029	19738.9	21390.0
	Average Aroclor-1254					3947.772	4277.997
17)	L7 Aroclor-1260	12.94	13.32	16948104	3257918	4662.0 E	1520.8 E#
18)	L7 Aroclor-1260 {2}	13.57	14.07	7246320	2395571	1310.4mE	1713.5 E#
19)	L7 Aroclor-1260 {3}	14.84	15.03	4752646	984482	1343.9 E	535.6 #
20)	L7 Aroclor-1260 {4}	15.40	16.43	5941412	1728154	746.6	917.1 E
21)	L7 Aroclor-1260 {5}	16.22	17.76	4860953	1275115	802.2	959.8 E
	Sum Aroclor-1260			39749435	9641240	5207.3	3316.9
	Average Aroclor-1260					1772.995	1129.347

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091731.D
Date Acquired: 18 Sep 2001 5:51
Inst: HP_03 Operator ID: BTB
Name: 47348.11 *E03D7 *
Misc: *EPA*30.4G/5.0ML*44
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:16 2001 Quant Results File: XPCBI16.RES



ok 9-25-01 BTB

Aroclor-1242 {4} 11.16min area: 23070128 m

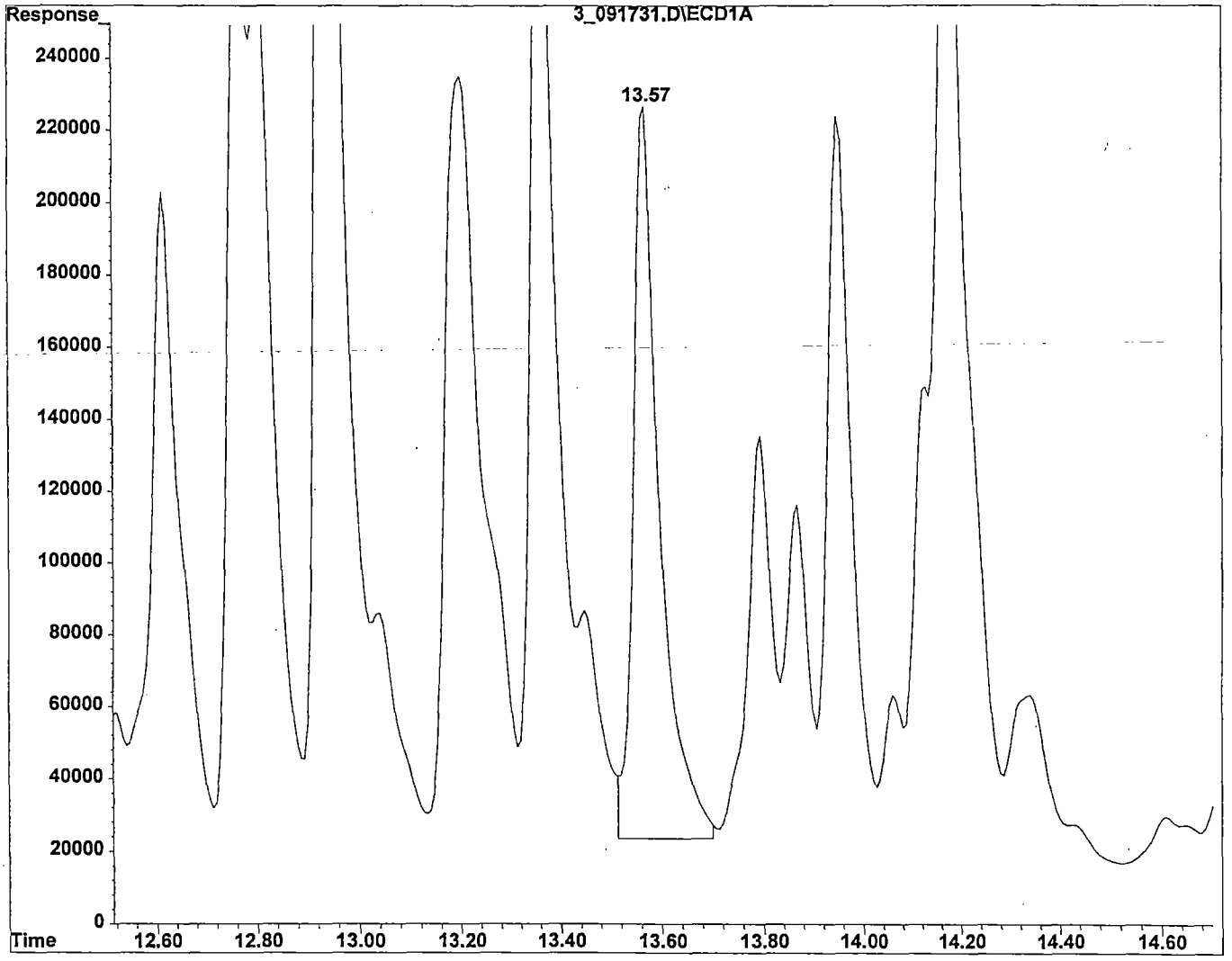
Integration Time Range: 11.09 - 11.28

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091731.D
Report generated: Wed Sep 19 11:23:55 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091731.D
Date Acquired: 18 Sep 2001 5:51
Inst: HP_03 Operator ID: BTB
Name: 47348.11 *E03D7 *
Misc: *EPA*30.4G/5.0ML*44
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:16 2001 Quant Results File: XPCBI16.RES



ok 9-25-01 eH

Aroclor-1260 {2} 13.57min area: 7246320 m

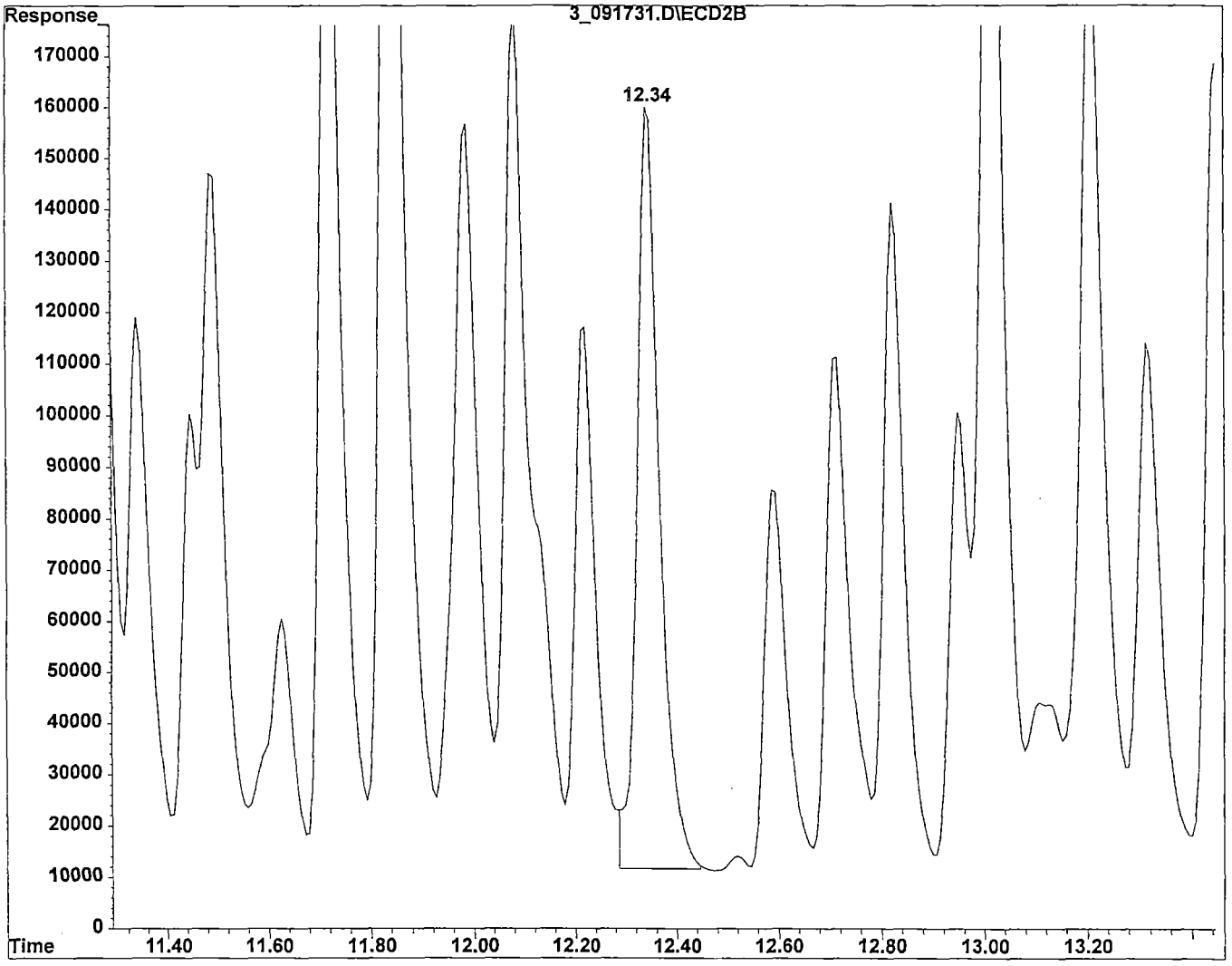
Integration Time Range: 13.51 - 13.70

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091731.D
Report generated: Wed Sep 19 11:23:55 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091731.D
Date Acquired: 18 Sep 2001 5:51
Inst: HP_03 Operator ID: BTB
Name: 47348.11 *E03D7 *
Misc: *EPA*30.4G/5.0ML*44
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:16 2001 Quant Results File: XPCBI16.RES



ok 9-25-01 [illegible]

Aroclor-1242 {5} #2 12.34min area: 4579460 m

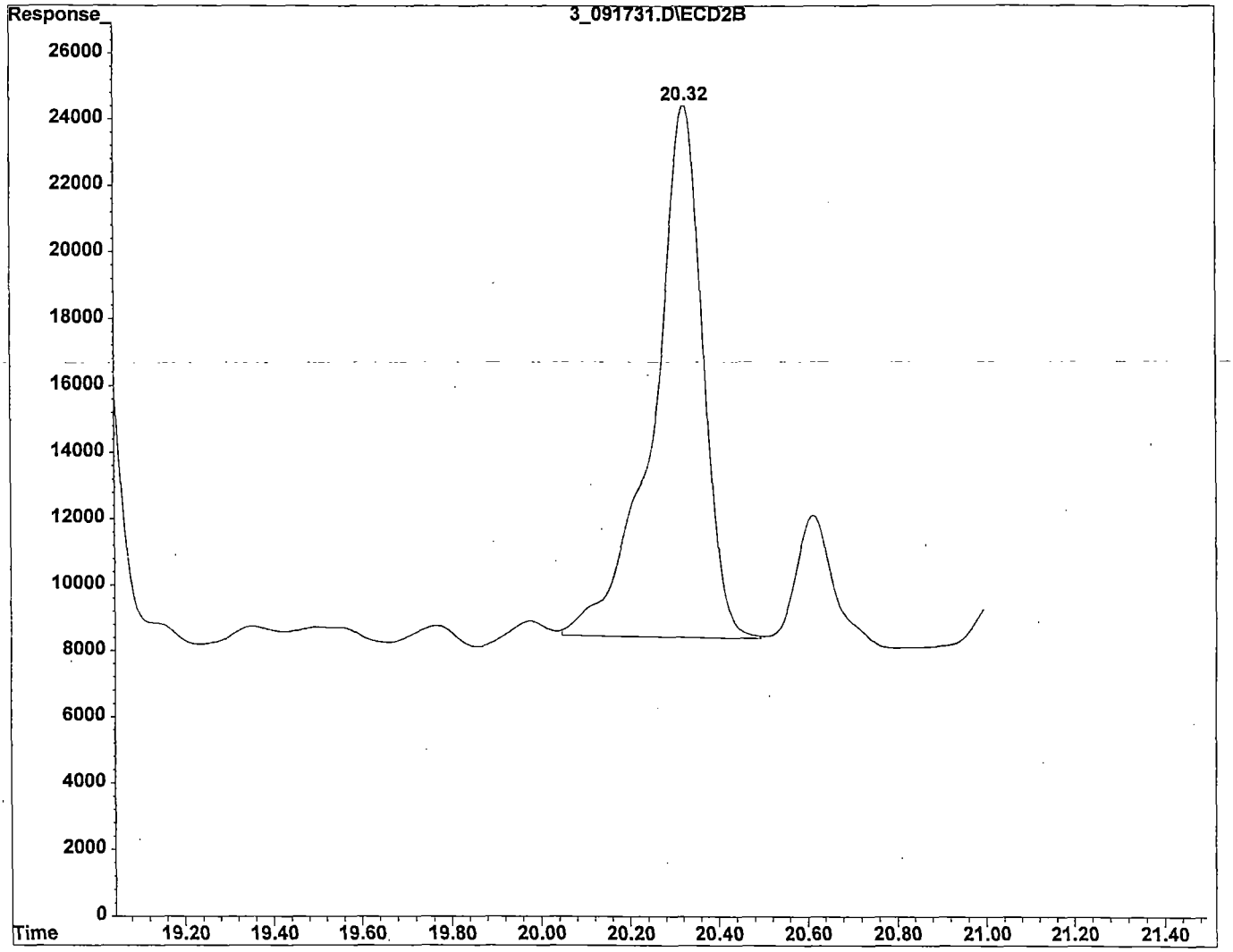
Integration Time Range: 12.29 - 12.44

BTB
091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091731.D
Report generated: Wed Sep 19 11:23:56 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091731.D
Date Acquired: 18 Sep 2001 5:51
Inst: HP_03 Operator ID: BTB
Name: 47348.11 *E03D7 *
Misc: *EPA*30.4G/5.0ML*44
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:16 2001 Quant Results File: XPCBI16.RES



ok 9-25-01 BH

DCB #2 20.32min area: 1245073 m BTB 091901

Integration Time Range: 20.04 - 20.49

F:\HPCHEM\HP\3\DATA\09_17_01\3_091731.D
Report generated: Wed Sep 19 11:23:56 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E03D7DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Matrix: (soil/water) SOIL Lab Sample ID: 47348.11DL

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

% Moisture: 44 decanted: (Y/N) __ Date Received: 08/20/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/23/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/19/01

Injection Volume: 0.5(uL) Dilution Factor: 20.0

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	1200	U
11104-28-2	Aroclor-1221	1200	U
11141-16-5	Aroclor-1232	1200	U
53469-21-9	Aroclor-1242	6400	D
12672-29-6	Aroclor-1248	1200	U
11097-69-1	Aroclor-1254	7000	D
11096-82-5	Aroclor-1260	2100	DP
Surrogate amount spiked		11.74	

TBS
10-11-01

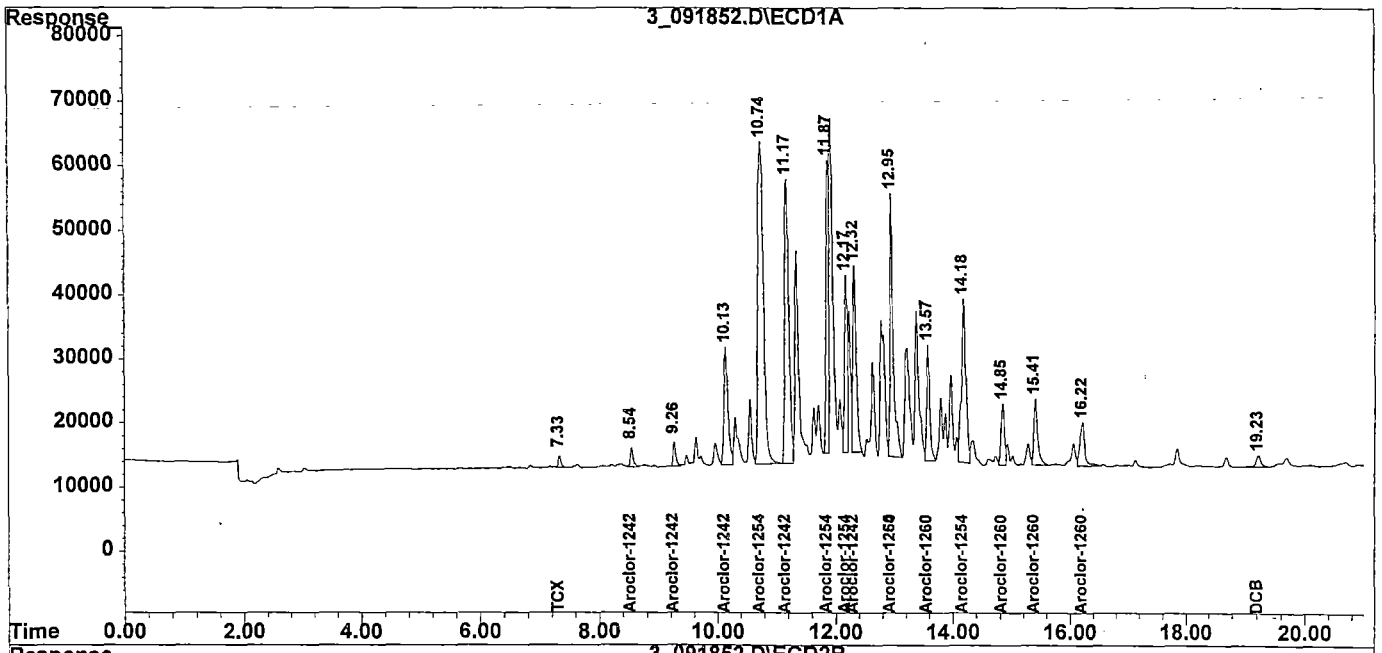
Chromatographic Report

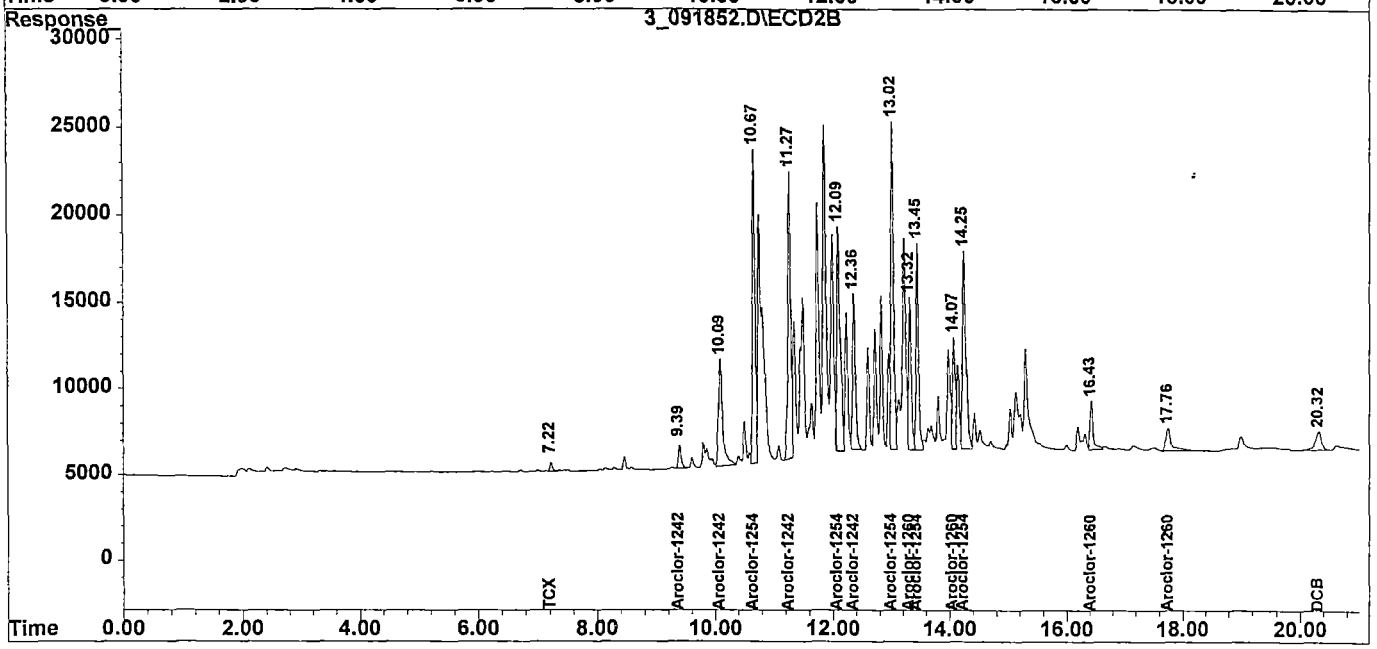
Signal #1 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091852.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091852.D\ECD2B.CH
Acq On : 19 Sep 2001 21:39 Operator: BTB
Sample : 47348.11DL *E03D7DL * Inst : HP_03
Misc : *EPA*30.4G/5.0ML*44 Dilution: 20.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 9:24 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

OK 9-21-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091852.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091852.D\ECD2B.CH
Acq On : 19 Sep 2001 21:39 Operator: BTB
Sample : 47348.11DL *E03D7DL * Inst : HP_03
Misc : *EPA*30.4G/5.0ML*44 Dilution: 20.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 9:24 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

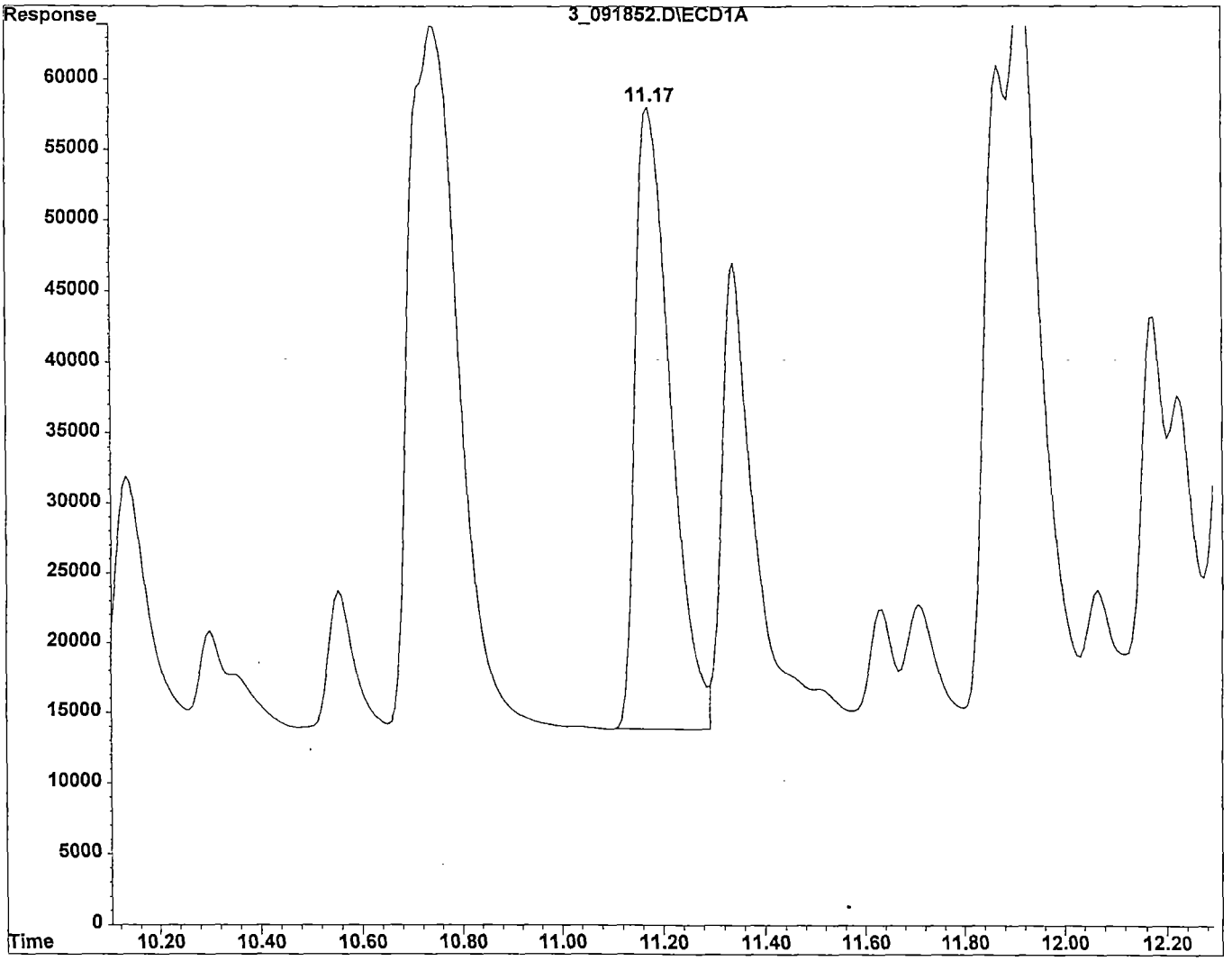
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.33	7.22	54047	14260	11.7	10.3	
	Spiked Amount 11.748			Recovery	=	99.59%	87.67%	
22)	S DCB	19.24	20.33	103132	78679	21.5	37.7	#
	Spiked Amount 11.748			Recovery	=	183.01%	320.90%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.54	0.00	105981	0	1100.5	N.D. d	#
8)	L4 Aroclor-1242 {2}	9.26	9.39	125191	46311	745.6	792.3	
9)	L4 Aroclor-1242 {3}	10.14	10.10	873792	311981	2821.4	2771.5	
10)	L4 Aroclor-1242 {4}	11.17	11.27	2130276	557038	15672.5m BTB	15123.8	
11)	L4 Aroclor-1242 {5}	12.32	12.36	1229702	316512	11608.0 092001	9680.3m BTB	
	Sum Aroclor-1242			4464942	1231842	31948.1	28367.8	
	Average Aroclor-1242					6389.614	7091.950 092001	
12)	L6 Aroclor-1254	10.75	10.67	3422026	565985	19876.0 E	13644.2	#
13)	L6 Aroclor-1254 {2}	11.87	12.09	1226680	525372	3846.5	5624.6m	#
14)	L6 Aroclor-1254 {3}	12.17	13.02	842963	647308	2890.7	5171.1	#
15)	L6 Aroclor-1254 {4}	12.95	13.46	1638698	376690	4877.0	5451.1	
16)	L6 Aroclor-1254 {5}	14.19	14.25	1345746	486145	4945.2	5255.6	
	Sum Aroclor-1254			8476112	2601500	36435.5	35146.7	
	Average Aroclor-1254					7287.093	7029.335	
17)	L7 Aroclor-1260	12.95	13.32	1638698	296075	9015.3	2764.1	#
18)	L7 Aroclor-1260 {2}	13.57	14.08	662768	214729	2397.0m	3071.7	#
19)	L7 Aroclor-1260 {3}	14.85	0.00	386035	0	2183.1	N.D. d	#
20)	L7 Aroclor-1260 {4}	15.41	16.43	475260	111433	1194.4	1182.7	
21)	L7 Aroclor-1260 {5}	16.22	17.76	411420	87266	1357.9	1313.8	
	Sum Aroclor-1260			3574180	709504	189704.7	97888.4	
	Average Aroclor-1260					3229.533	2083.064	

(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\3\DATA\09_18_01\3_091852.D
Date Acquired: 19 Sep 2001 21:39
Inst: HP_03 Operator ID: BTB
Name: 47348.11DL *E03D7DL *
Misc: *EPA*30.4G/5.0ML*44
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 9:24 2001 Quant Results File: XPCBI16.RES



Aroclor-1242 {4} 11.17min area: 2130276 m

Integration Time Range: 11.10 - 11.29

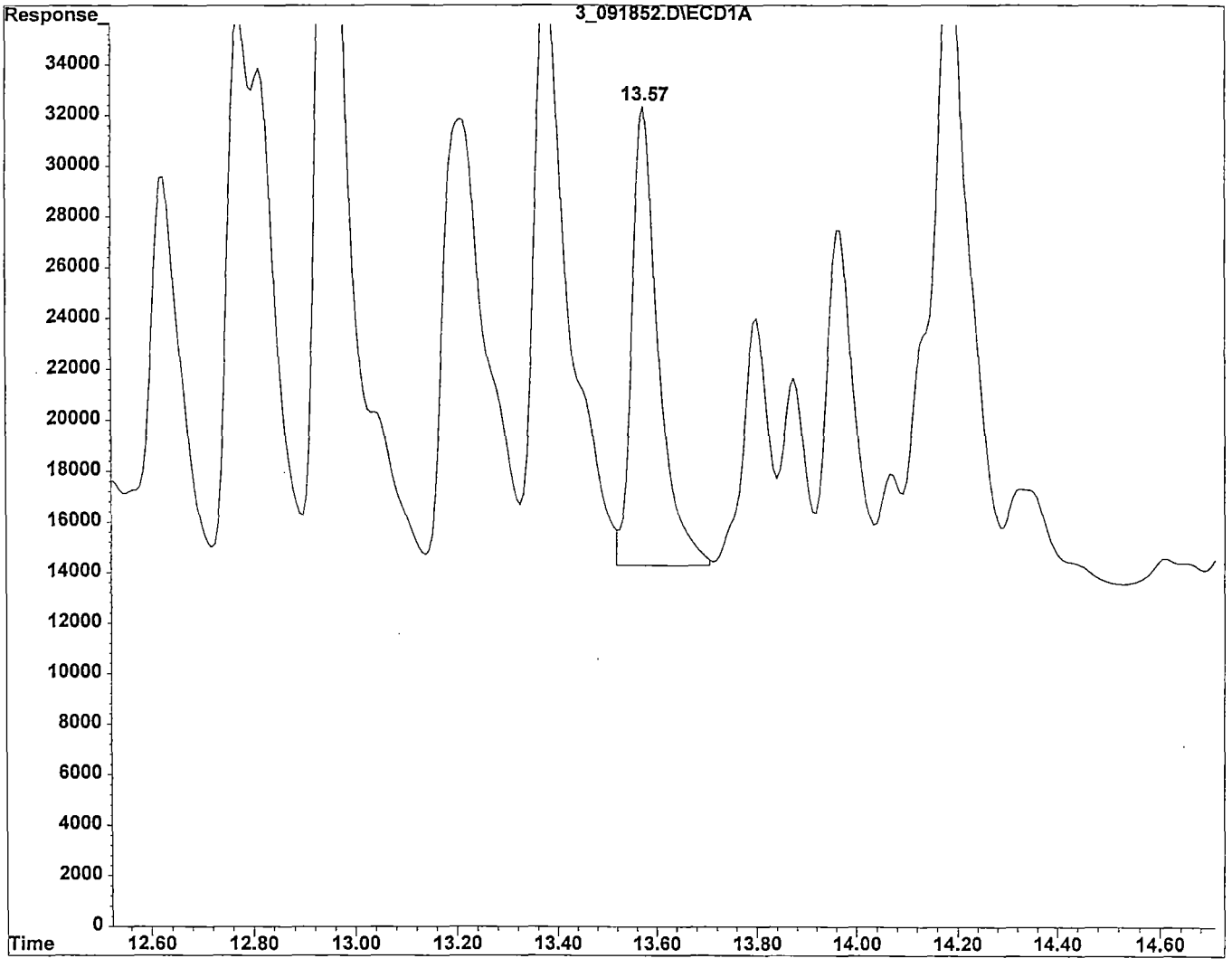
BTB 092001

GK 9-25-01

F:\HPCHEM\HP\3\DATA\09_18_01\3_091852.D
Report generated: Thu Sep 20 09:48:07 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_18_01\3_091852.D
Date Acquired: 19 Sep 2001 21:39
Inst: HP_03 Operator ID: BTB
Name: 47348.11DL *E03D7DL *
Misc: *EPA*30.4G/5.0ML*44
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 9:24 2001 Quant Results File: XPCBI16.RES



ok 9-25-01 ea

Aroclor-1260 {2} 13.57min area: 662768 m

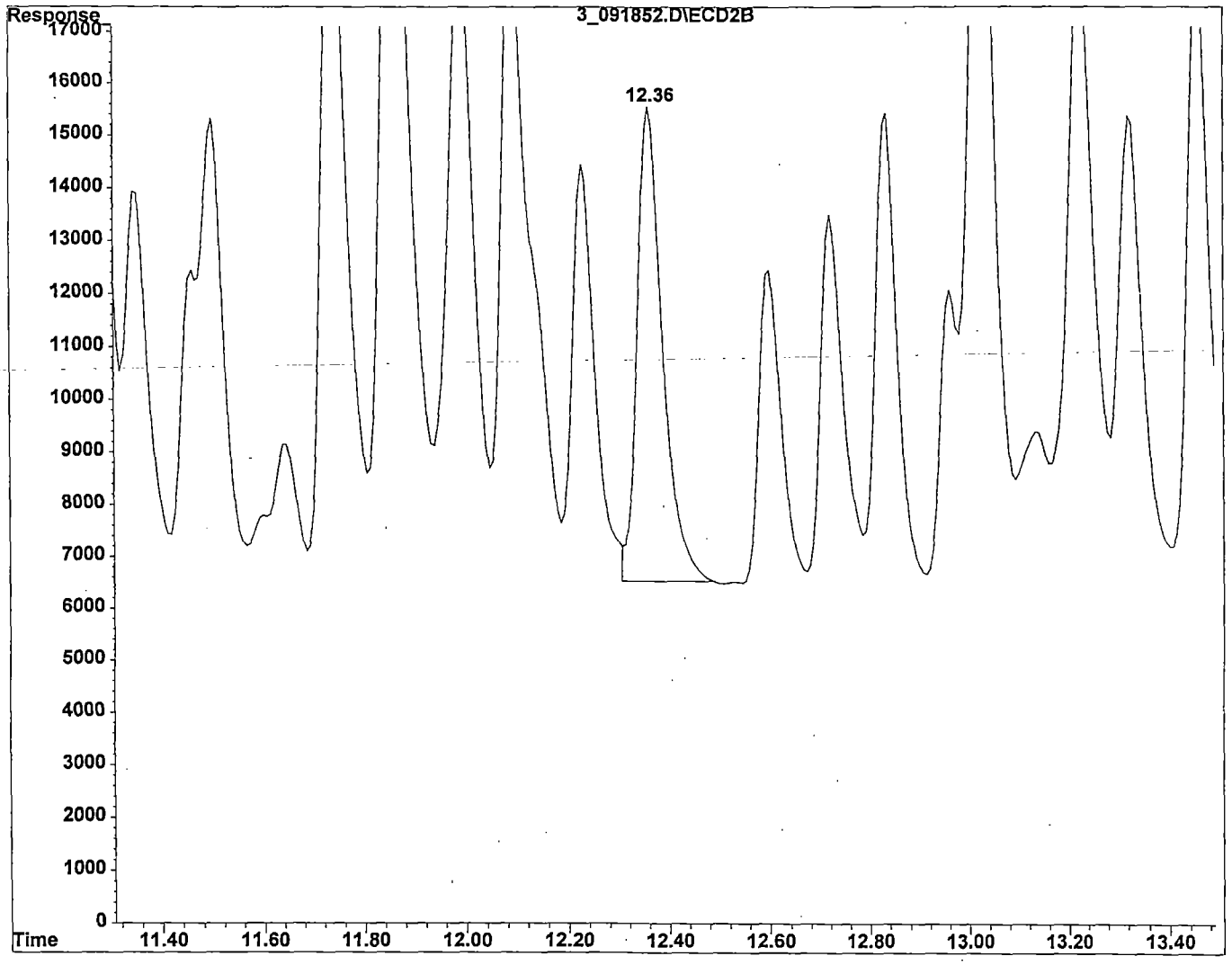
Integration Time Range: 13.52 - 13.71

BTB 092001

F:\HPCHEM\HP\3\DATA\09_18_01\3_091852.D
Report generated: Thu Sep 20 09:48:07 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_18_01\3_091852.D
Date Acquired: 19 Sep 2001 21:39
Inst: HP_03 Operator ID: BTB
Name: 47348.11DL *E03D7DL *
Misc: *EPA*30.4G/5.0ML*44
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 9:24 2001 Quant Results File: XPCBI16.RES



ok 9-25-01 KA

Aroclor-1242 {5} #2 12.36min area: 316512 m

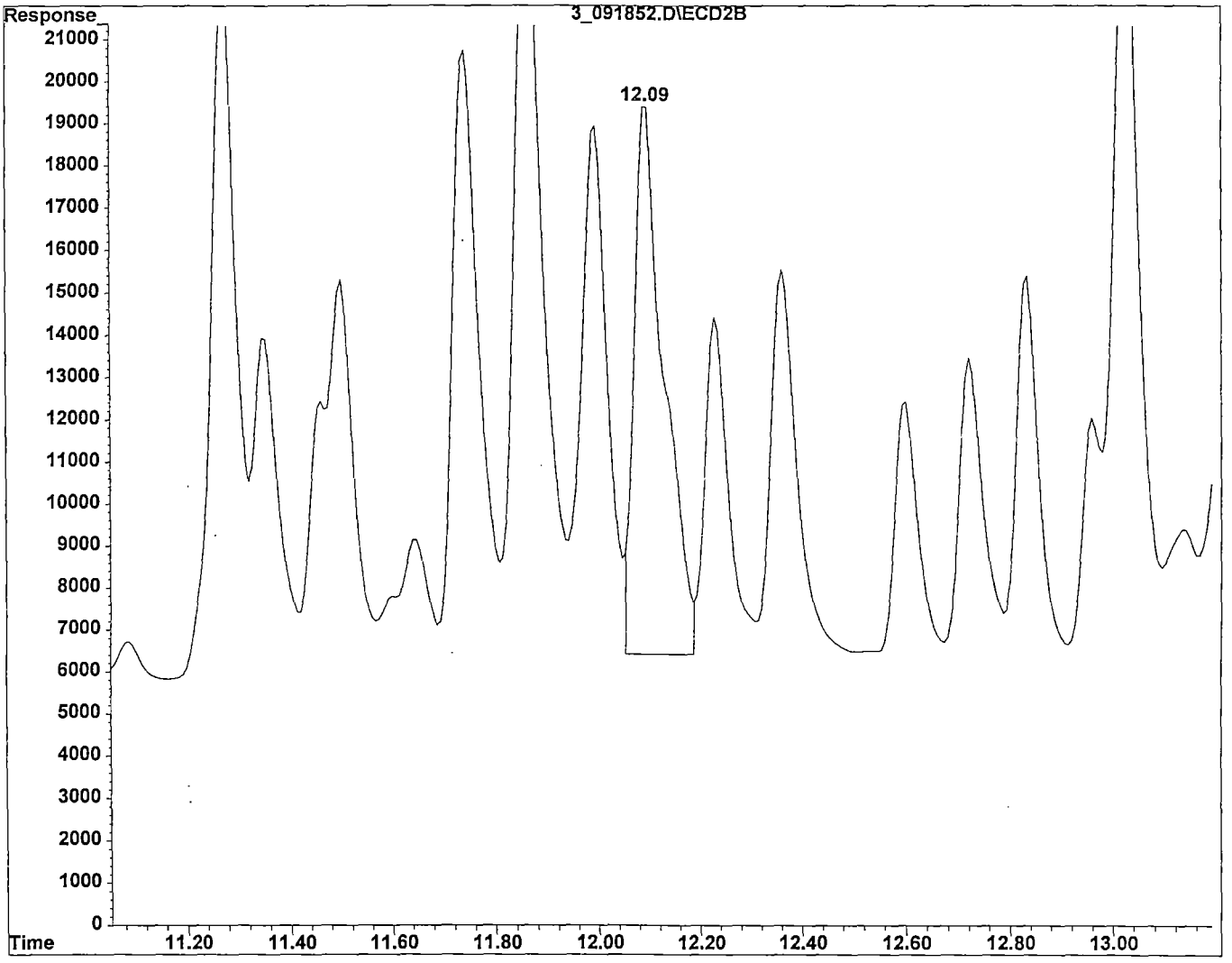
Integration Time Range: 12.31 - 12.49

BTB
092001

F:\HPCHEM\HP\3\DATA\09_18_01\3_091852.D
Report generated: Thu Sep 20 09:48:08 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_18_01\3_091852.D
Date Acquired: 19 Sep 2001 21:39
Inst: HP_03 Operator ID: BTB
Name: 47348.11DL *E03D7DL *
Misc: *EPA*30.4G/5.0ML*44
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 9:24 2001 Quant Results File: XPCBI16.RES



ok 9-25-01 EH

Aroclor-1254 {2} #2 12.09min area: 525372 m

Integration Time Range: 12.05 - 12.19

BTB 092001

F:\HPCHEM\HP\3\DATA\09_18_01\3_091852.D
Report generated: Thu Sep 20 09:48:09 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E03D8

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Matrix: (soil/water) SOIL Lab Sample ID: 47348.12

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

% Moisture: 45 decanted: (Y/N) __ Date Received: 08/20/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/23/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/18/01

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	59	U J
11104-28-2	Aroclor-1221	59	U
11141-16-5	Aroclor-1232	59	U
53469-21-9	Aroclor-1242	~~680~~	1000 D J ~~E~~
12672-29-6	Aroclor-1248	59	U J
11097-69-1	Aroclor-1254	~~880~~	1400 D J ~~E~~
11096-82-5	Aroclor-1260	340	J
Surrogate amount spiked		11.97	

2740

apply this results
TBS 10-11-01

FORM I PCB

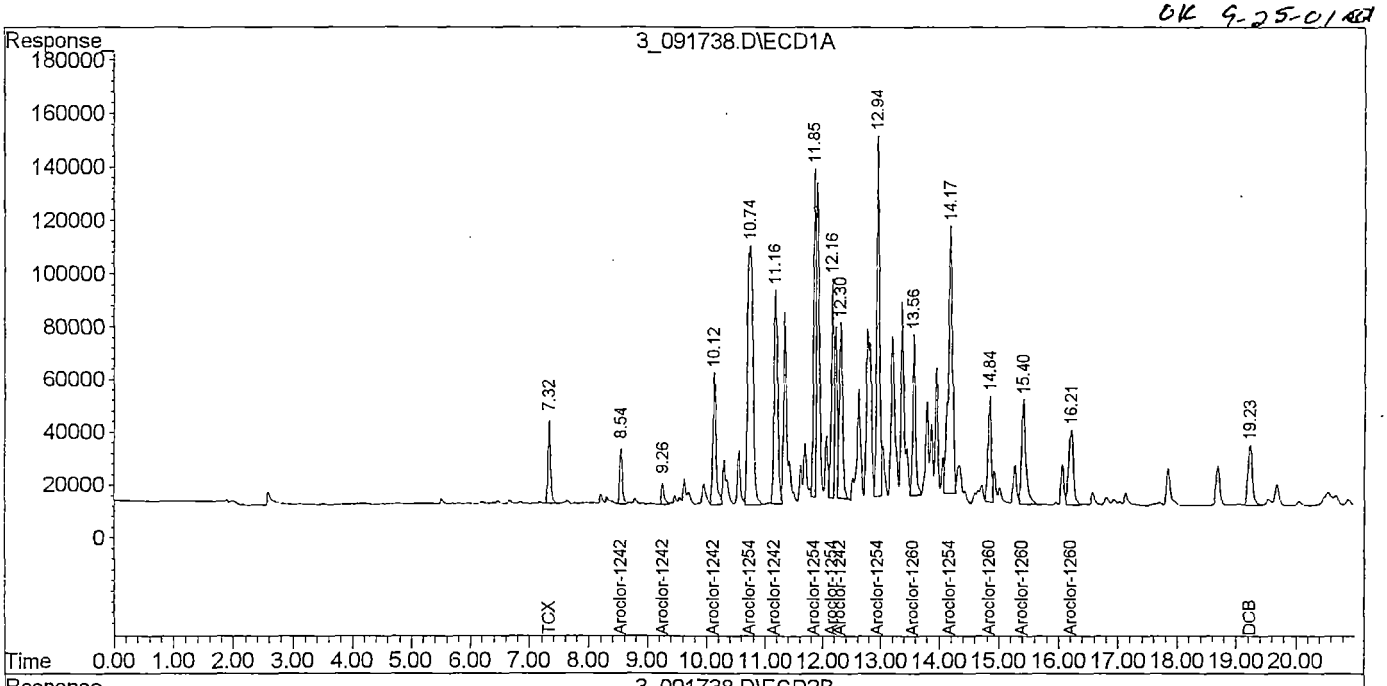
Chromatographic Report

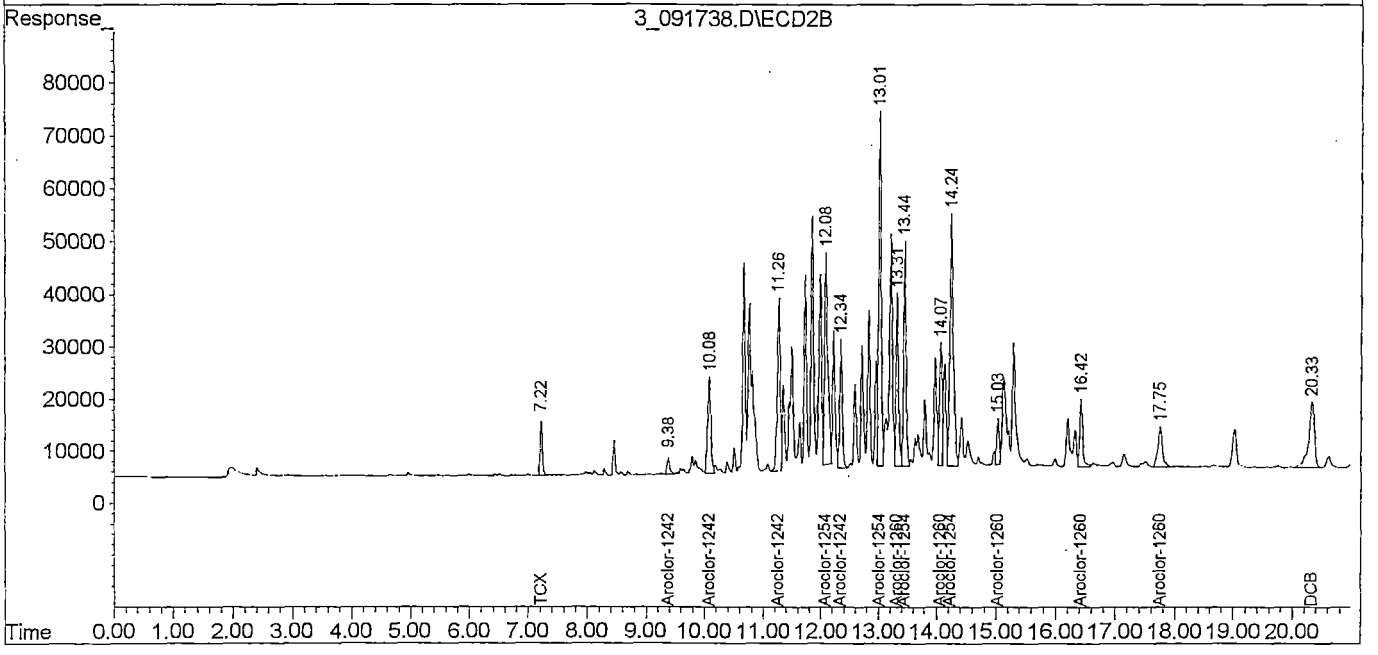
Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091738.D\ECD1A.CH Vial: 38
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091738.D\ECD2B.CH
Acq On : 18 Sep 2001 8:51 Operator: BTB
Sample : 47348.12 *E03D8 * Inst : HP_03
Misc : *EPA*30.4G/5.0ML*45 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 24 15:55 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

OK 9-25-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091738.D\ECD1A.CH Vial: 38
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091738.D\ECD2B.CH
Acq On : 18 Sep 2001 8:51 Operator: BTB
Sample : 47348.12 *E03D8 * Inst : HP_03
Misc : *EPA*30.4G/5.0ML*45 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 24 15:55 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

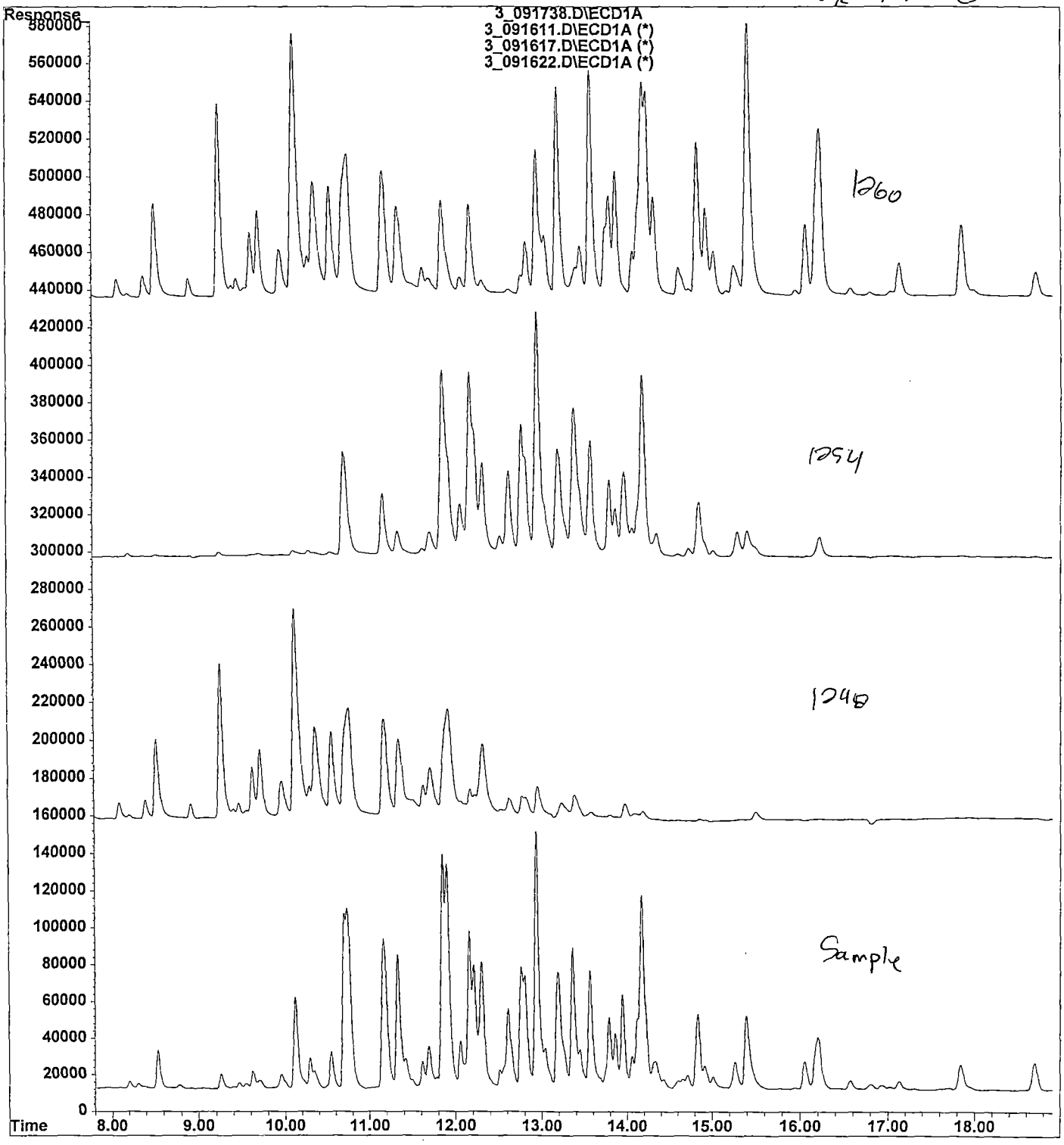
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	976710	289275	10.8	10.7
	Spiked Amount 11.962			Recovery	=	90.29%	89.45%
22)	S DCB	19.23	20.33	1170551	904666	12.4	22.1 #
	Spiked Amount 11.962			Recovery	=	103.66%	184.76%
	Target Compounds:						
7)	L4 Aroclor-1242	8.54	0.00	652895	0	345.2	N.D. d #
8)	L4 Aroclor-1242 {2}	9.26	9.38	277670	117572	84.2	102.4
9)	L4 Aroclor-1242 {3}	10.12	10.08	1926691	728680	316.7	329.5
10)	L4 Aroclor-1242 {4}	11.16	11.26	3665184	1101639	1372.8mE BTB	1522.7 E
11)	L4 Aroclor-1242 {5}	12.30	12.34	2677388	772776	1286.7 E 09240	1203.2mE BTB 09240
	Sum Aroclor-1242			9199828	2720667	3405.5	3157.9
	Average Aroclor-1242					681.095	789.463
12)	L6 Aroclor-1254	10.73	0.00	6383180	0	1887.5mE	N.D. d #
13)	L6 Aroclor-1254 {2}	11.85	12.08	3228332	1518850	515.4	827.8 E#
14)	L6 Aroclor-1254 {3}	12.16	13.01	2283603	2108926	398.7	857.7 E#
15)	L6 Aroclor-1254 {4}	12.94	13.45	4530104	1297634	686.4	956.0 E#
16)	L6 Aroclor-1254 {5}	14.17	14.24	4872768	1939526	911.6mE	1067.5 E
	Sum Aroclor-1254			21297987	6864936	4399.4	3708.9
	Average Aroclor-1254					879.887	927.237
17)	L7 Aroclor-1260	0.00	13.32	0	1051710	N.D. d	499.9 #
18)	L7 Aroclor-1260 {2}	13.56	14.07	2103060	773246	387.2m	563.1 #
19)	L7 Aroclor-1260 {3}	14.84	15.03	1522470	265742	438.3	147.2 #
20)	L7 Aroclor-1260 {4}	15.40	16.42	1906951	504655	244.0	272.7
21)	L7 Aroclor-1260 {5}	16.21	17.75	1610473	415291	270.6	318.3
	Sum Aroclor-1260			7142955	3010643	801.5	1077.2
	Average Aroclor-1260					335.030	360.230

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

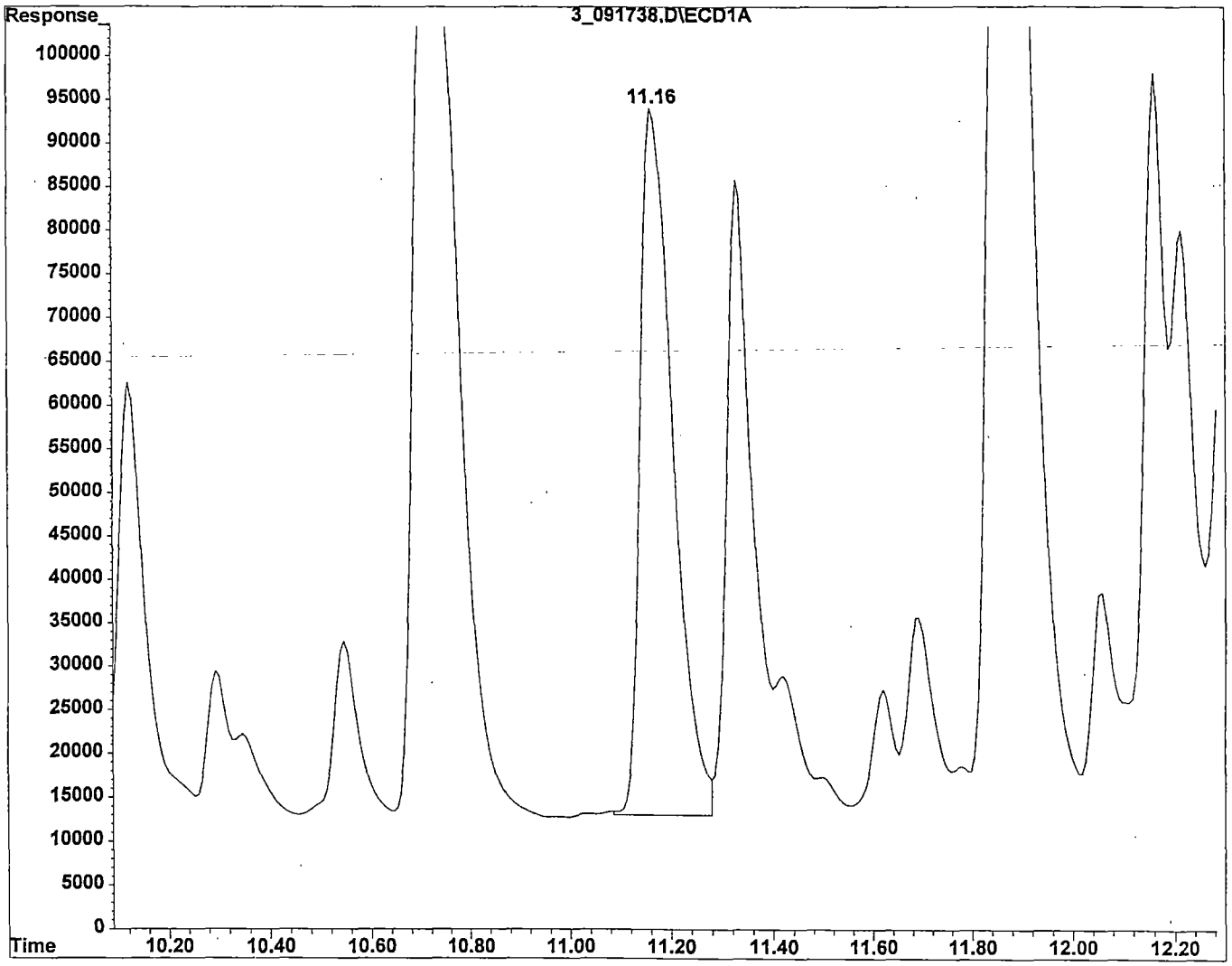
File : F:\HPCHEM\HP\3\DATA\09_17_01\3_091738.D
Operator : BTB
Acquired : 18 Sep 2001 8:51 using AcqMethod OLM03.M
Instrument : HP_03
Sample Name: 47348.12 *E03D8 *
Misc Info : *EPA*30.4G/5.0ML*45
Vial Number: 38

OK 9-21-01 KOH



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091738.D
Date Acquired: 18 Sep 2001 8:51
Inst: HP_03 Operator ID: BTB
Name: 47348.12 *E03D8 *
Misc: *EPA*30.4G/5.0ML*45
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:27 2001 Quant Results File: XPCBI16.RES



Aroclor-1242 {4} 11.16min area: 3665184 m

Integration Time Range: 11.09 - 11.28

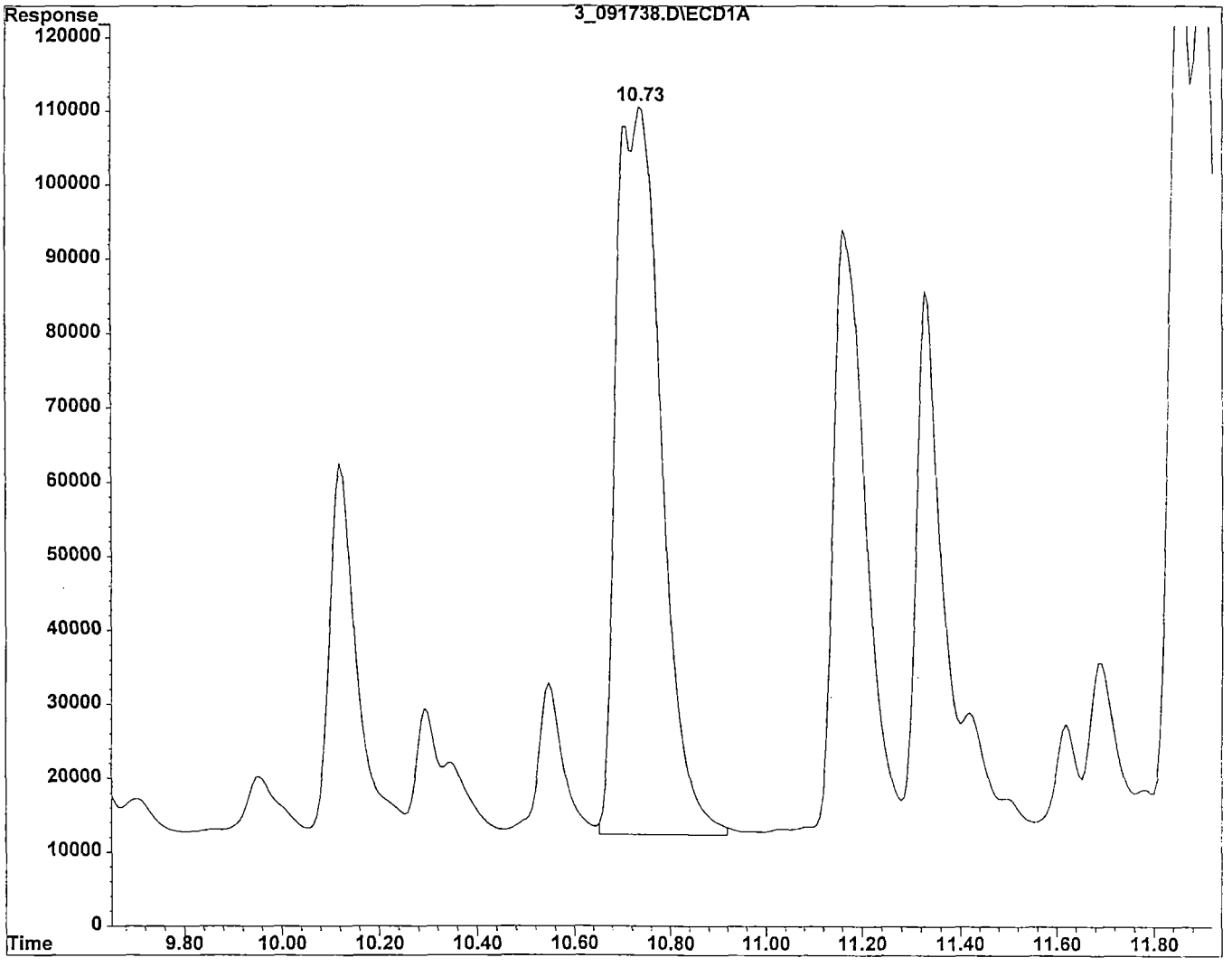
BTB 091901

ok 9-21-01

F:\HPCHEM\HP\3\DATA\09_17_01\3_091738.D
Report generated: Wed Sep 19 12:00:45 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091738.D
Date Acquired: 18 Sep 2001 8:51
Inst: HP_03 Operator ID: BTB
Name: 47348.12 *E03D8 *
Misc: *EPA*30.4G/5.0ML*45
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 24 15:55 2001 Quant Results File: XPCBI16.RES



OK 9-25-01 BH

Aroclor-1254 10.73min area: 6383180 m

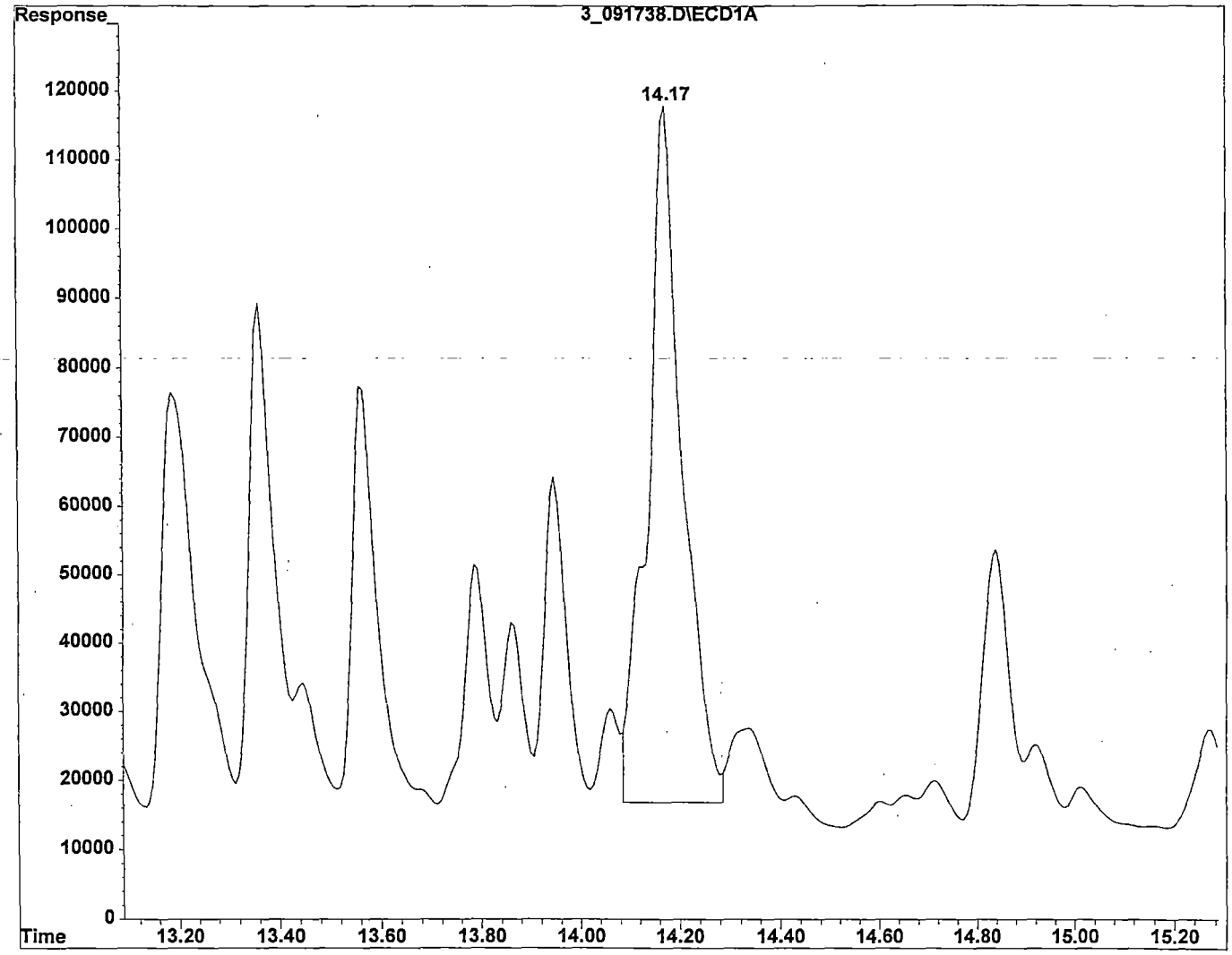
Integration Time Range: 10.65 - 10.92

BTB 092401

F:\HPCHEM\HP\3\DATA\09_17_01\3_091738.D
Report generated: Mon Sep 24 16:13:14 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091738.D
Date Acquired: 18 Sep 2001 8:51
Inst: HP_03 Operator ID: BTB
Name: 47348.12 *E03D8 *
Misc: *EPA*30.4G/5.0ML*45
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:27 2001 Quant Results File: XPCBI16.RES



Aroclor-1254 {5} 14.17min area: 4872768 m

Integration Time Range: 14.09 - 14.28

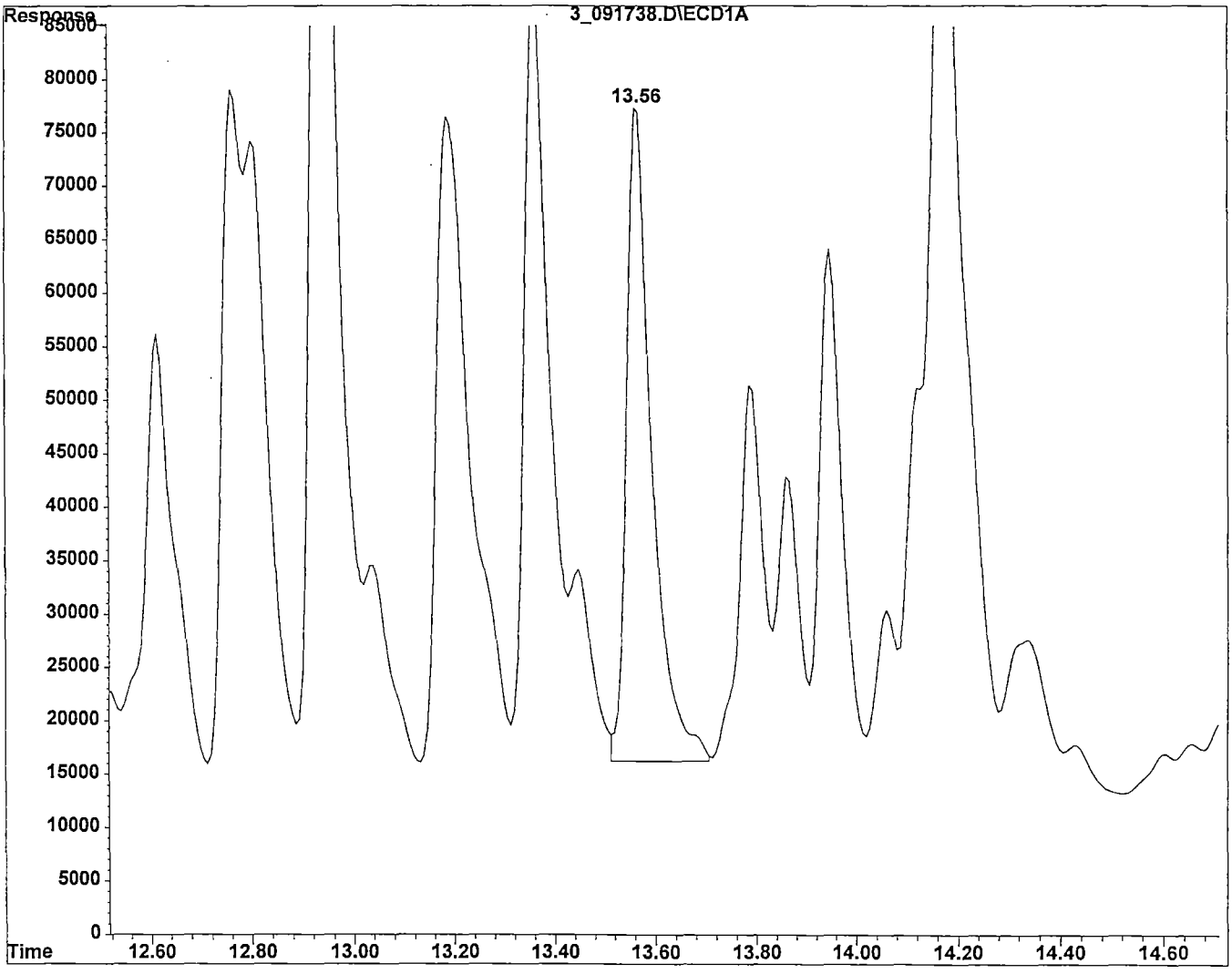
BTB 091901

OK 9-21-01

F:\HPCHEM\HP\3\DATA\09_17_01\3_091738.D
Report generated: Wed Sep 19 12:00:45 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091738.D
Date Acquired: 18 Sep 2001 8:51
Inst: HP_03 Operator ID: BTB
Name: 47348.12 *E03D8 *
Misc: *EPA*30.4G/5.0ML*45
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:27 2001 Quant Results File: XPCBI16.RES



Aroclor-1260 {2} 13.56min area: 2103060 m

Integration Time Range: 13.52 - 13.71

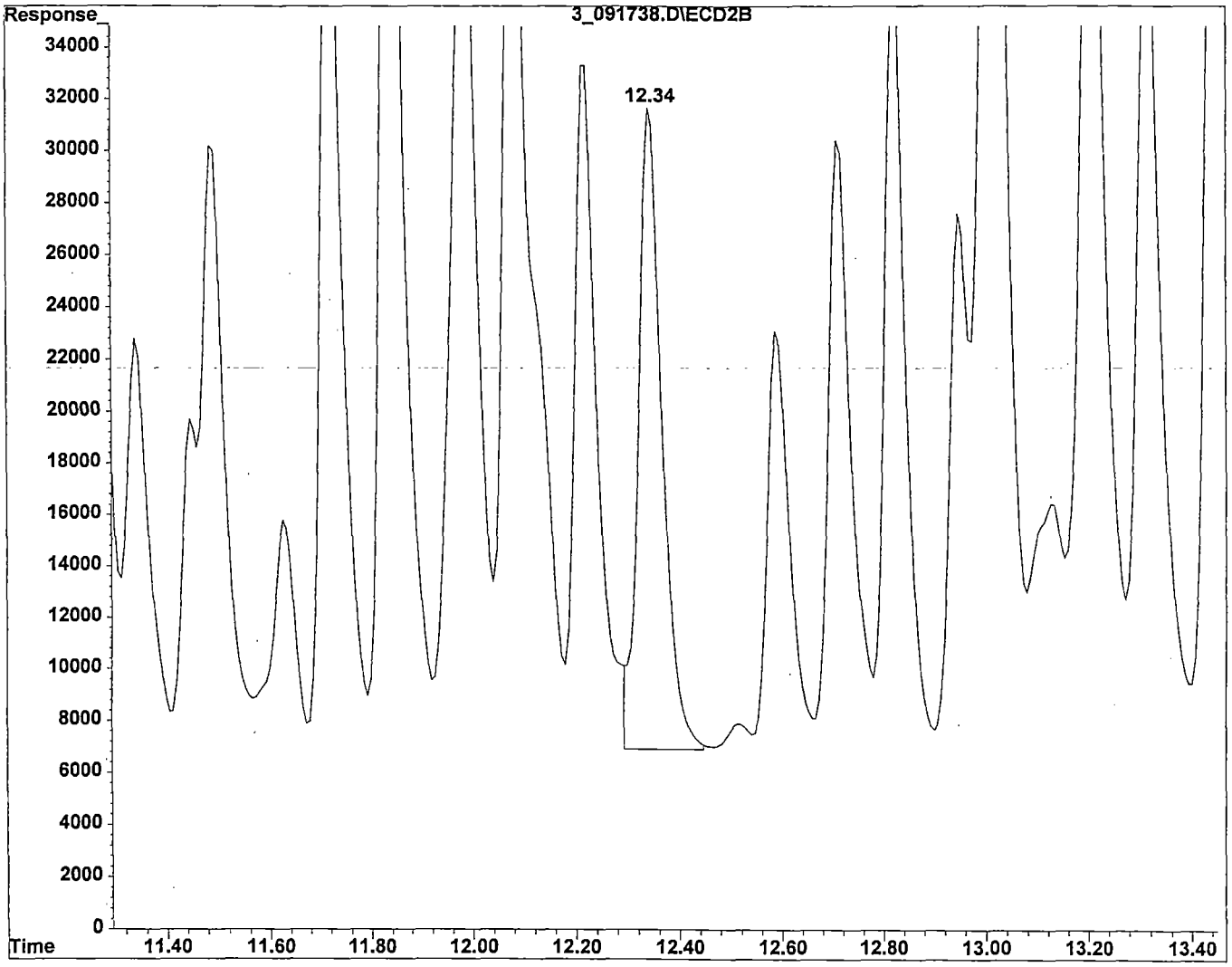
OK 9-21-01

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091738.D
Report generated: Wed Sep 19 12:00:46 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091738.D
Date Acquired: 18 Sep 2001 8:51
Inst: HP_03 Operator ID: BTB
Name: 47348.12 *E03D8 *
Misc: *EPA*30.4G/5.0ML*45
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:27 2001 Quant Results File: XPCBI16.RES



OK 9-21-01 EH

Aroclor-1242 {5} #2 12.34min area: 772776 m BTB 091901

Integration Time Range: 12.29 - 12.45

F:\HPCHEM\HP\3\DATA\09_17_01\3_091738.D
Report generated: Wed Sep 19 12:00:46 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E03D8DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Matrix: (soil/water) SOIL Lab Sample ID: 47348.12DL

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

% Moisture: 45 decanted: (Y/N) __ Date Received: 08/20/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/23/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/19/01

Injection Volume: 0.5(uL) Dilution Factor: 5.0

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	300	U
11104-28-2	Aroclor-1221	300	U
11141-16-5	Aroclor-1232	300	U
53469-21-9	Aroclor-1242	1000	D
12672-29-6	Aroclor-1248	300	U
11097-69-1	Aroclor-1254	1400	D
11096-82-5	Aroclor-1260	570	DP
Surrogate amount spiked		11.97	

TBJ
10-11-01

FORM I PCB

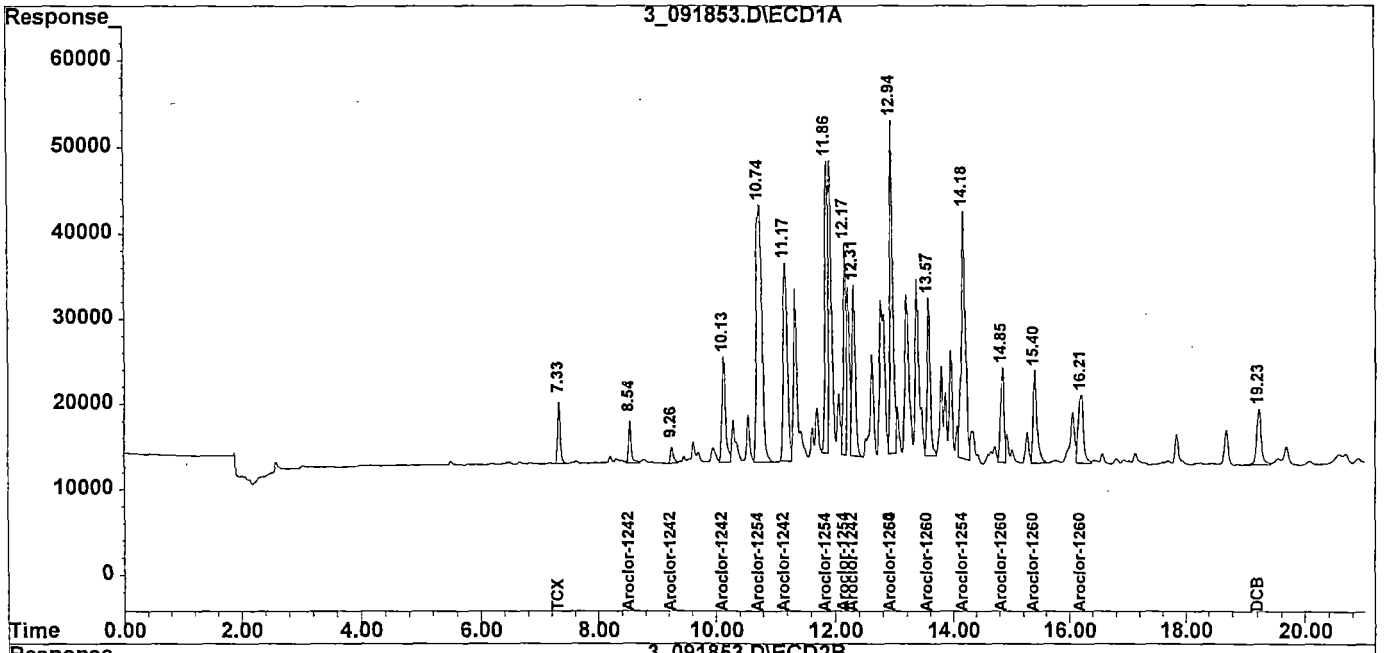
Chromatographic Report

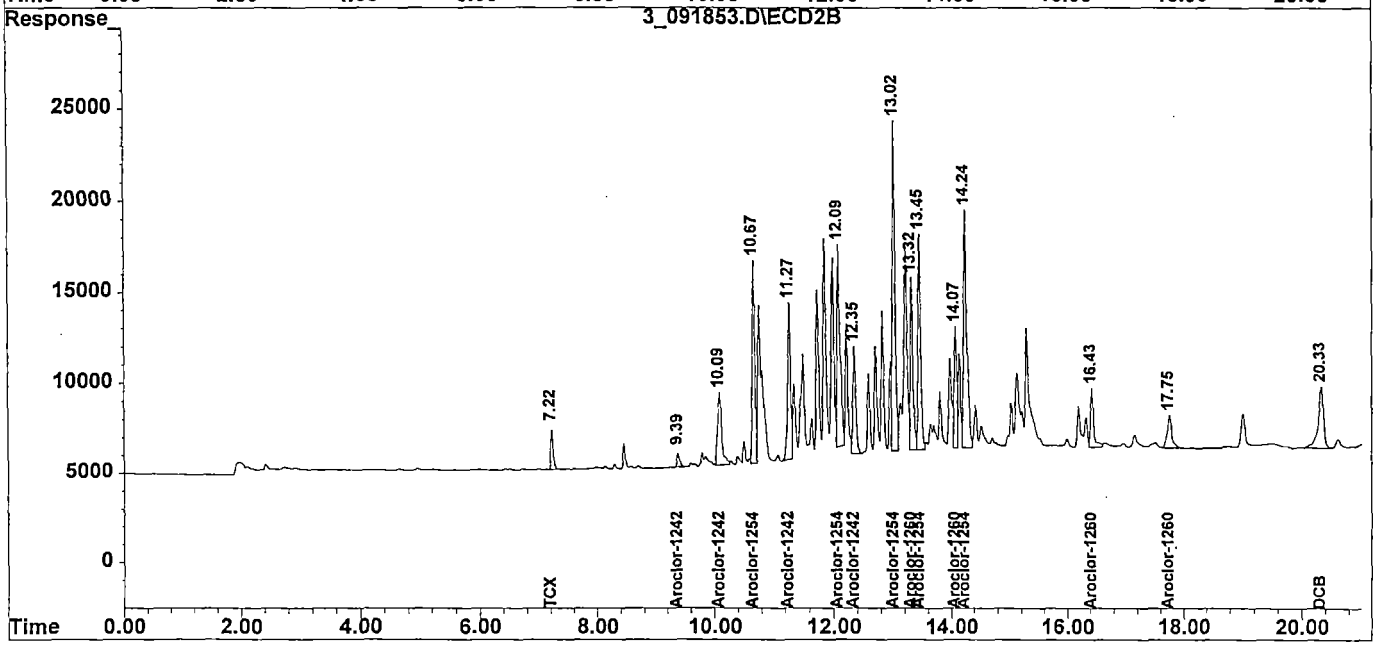
Signal #1 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091853.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091853.D\ECD2B.CH
Acq On : 19 Sep 2001 22:05 Operator: BTB
Sample : 47348.12DL *E03D8DL * Inst : HP_03
Misc : *EPA*30.4G/5.0ML*45 Dilution: 5.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 9:25 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

ok 9-25-01 OH





Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091853.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091853.D\ECD2B.CH
Acq On : 19 Sep 2001 22:05 Operator: BTB
Sample : 47348.12DL *E03D8DL * Inst : HP_03
Misc : *EPA*30.4G/5.0ML*45 Dilution: 5.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 9:25 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

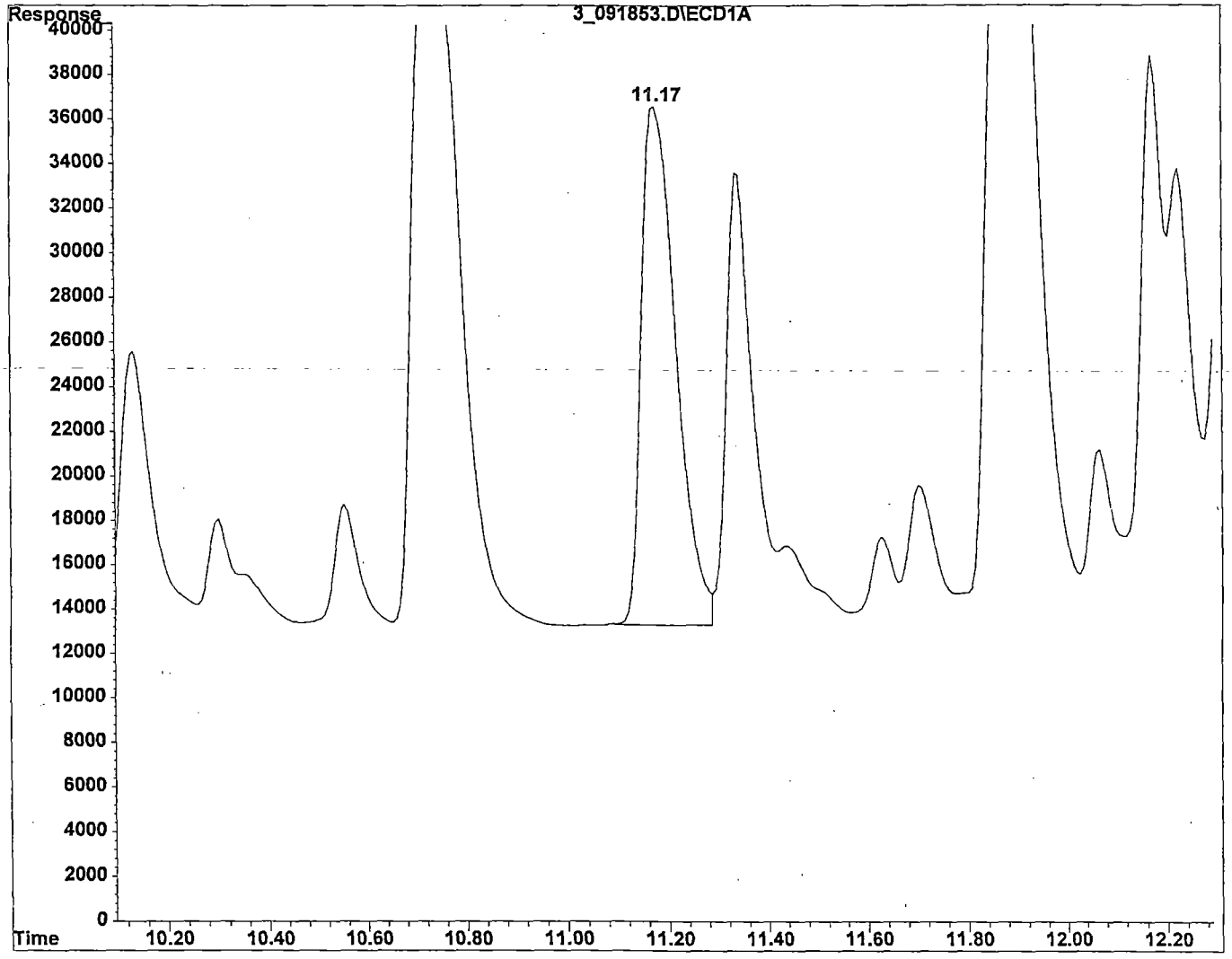
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.33	7.22	233147	62716	12.9	11.6	
	Spiked Amount 11.962			Recovery	=	107.84%	96.98%	
22)	S DCB	19.24	20.33	351769	222255	18.7	27.1	#
	Spiked Amount 11.962			Recovery	=	156.33%	226.56%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.54	0.00	169407	0	447.8	N.D. d	#
8)	L4 Aroclor-1242 {2}	9.26	9.39	67252	24639	102.0	107.3	
9)	L4 Aroclor-1242 {3}	10.13	10.09	546493	191819	449.2	433.7	
10)	L4 Aroclor-1242 {4}	11.17	11.27	1107516	290243	2074.0m BTB 092001	2005.9	
11)	L4 Aroclor-1242 {5}	12.32	12.35	797130	193908	1915.4	1509.6m BTB 092001	
	Sum Aroclor-1242			2687797	700608	4988.3	4056.5	
	Average Aroclor-1242					997.664	1014.125	
12)	L6 Aroclor-1254	10.74	10.67	2007808	342312	2968.5	2100.5	#
13)	L6 Aroclor-1254 {2}	11.86	12.09	994209	420881	793.5	1147.0	#
14)	L6 Aroclor-1254 {3}	12.17	13.02	730937	589826	638.0	1199.4	#
15)	L6 Aroclor-1254 {4}	12.95	13.45	1338487	360424	1014.0	1327.6	#
16)	L6 Aroclor-1254 {5}	14.18	14.24	1455117	537029	1361.1	1477.8	
	Sum Aroclor-1254			6526557	2250471	6775.1	7252.4	
	Average Aroclor-1254					1355.028	1450.472	
17)	L7 Aroclor-1260	12.95	13.32	1338487	306015	1874.4	727.2	#
18)	L7 Aroclor-1260 {2}	13.57	14.08	650548	222045	598.9m	808.5	#
19)	L7 Aroclor-1260 {3}	14.85	0.00	438016	0	630.5	N.D. d	#
20)	L7 Aroclor-1260 {4}	15.40	16.43	511221	127430	327.0	344.3	
21)	L7 Aroclor-1260 {5}	16.21	17.76	504401	101478	423.8	388.9	
	Sum Aroclor-1260			3442673	756968	11526.9	6784.9	
	Average Aroclor-1260					770.921	567.219	

(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\3\DATA\09_18_01\3_091853.D
Date Acquired: 19 Sep 2001 22:05
Inst: HP_03 Operator ID: BTB
Name: 47348.12DL *E03D8DL *
Misc: *EPA*30.4G/5.0ML*45
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 9:25 2001 Quant Results File: XPCBI16.RES



OK 9-25-01 BH

Aroclor-1242 {4} 11.17min area: 1107516 m

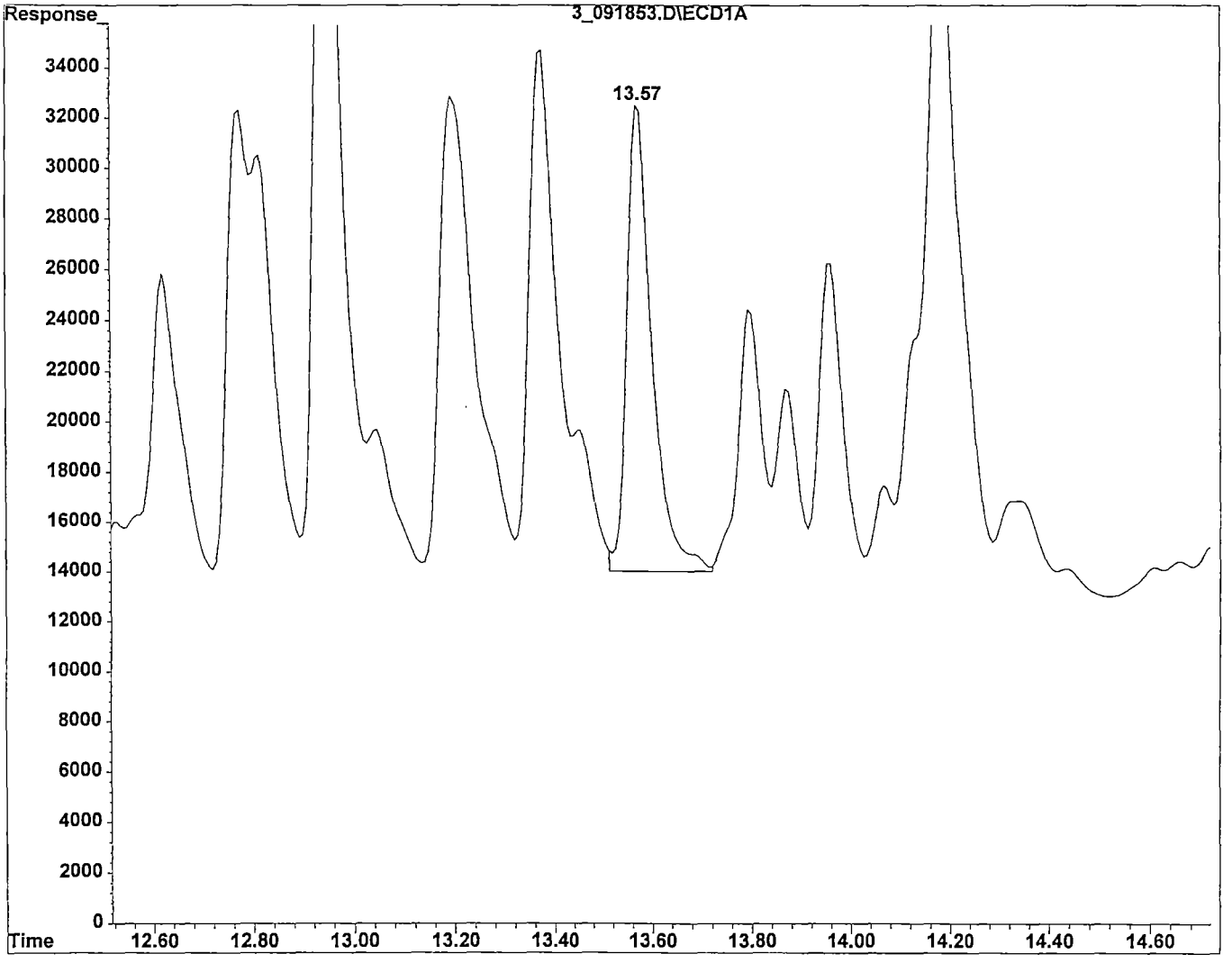
Integration Time Range: 11.10 - 11.29

BTB 092001

F:\HPCHEM\HP\3\DATA\09_18_01\3_091853.D
Report generated: Thu Sep 20 09:48:10 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_18_01\3_091853.D
Date Acquired: 19 Sep 2001 22:05
Inst: HP_03 Operator ID: BTB
Name: 47348.12DL *E03D8DL *
Misc: *EPA*30.4G/5.0ML*45
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 9:25 2001 Quant Results File: XPCBI16.RES



OK 9-25-01

Aroclor-1260 {2} 13.57min area: 650548 m

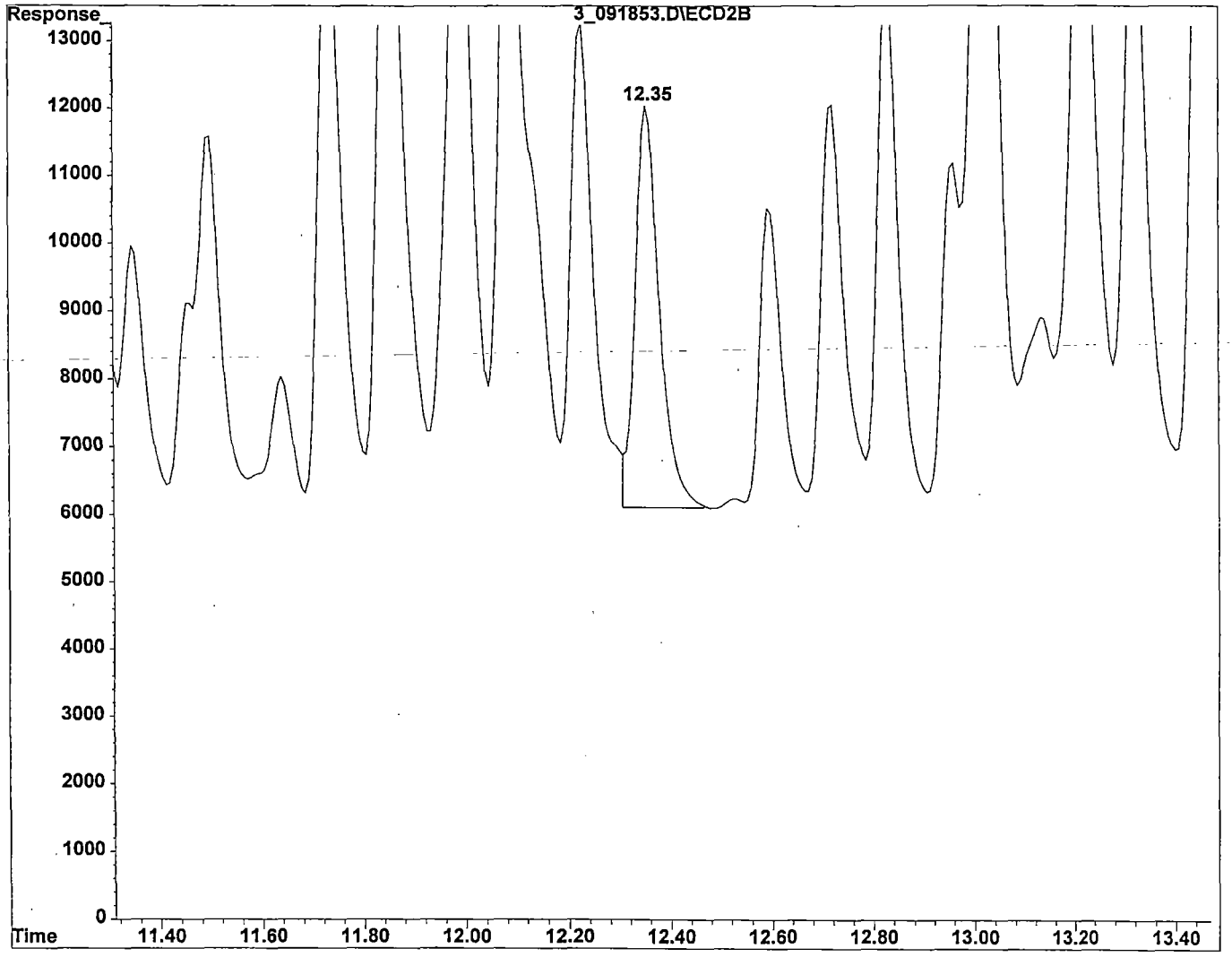
Integration Time Range: 13.51 - 13.72

BTB 092001

F:\HPCHEM\HP\3\DATA\09_18_01\3_091853.D
Report generated: Thu Sep 20 09:48:11 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_18_01\3_091853.D
Date Acquired: 19 Sep 2001 22:05
Inst: HP_03 Operator ID: BTB
Name: 47348.12DL *E03D8DL *
Misc: *EPA*30.4G/5.0ML*45
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 9:25 2001 Quant Results File: XPCBI16.RES



OK 9-25-01

Aroclor-1242 {5} #2 12.35min area: 193908 m

Integration Time Range: 12.31 - 12.47

BTB 092001

F:\HPCHEM\HP\3\DATA\09_18_01\3_091853.D
Report generated: Thu Sep 20 09:48:12 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E03D9

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Matrix: (soil/water) SOIL Lab Sample ID: 47348.13

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

% Moisture: 42 decanted: (Y/N) __ Date Received: 08/20/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/23/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/18/01

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	55	U J
11104-28-2	Aroclor-1221	55	U J
11141-16-5	Aroclor-1232	55	U J
53469-21-9	Aroclor-1242	65	J
12672-29-6	Aroclor-1248	55	U J
11097-69-1	Aroclor-1254	62	P J
11096-82-5	Aroclor-1260	24	JP
Surrogate amount spiked		11.20	

151

TBS
10-11-01

FORM I PCB

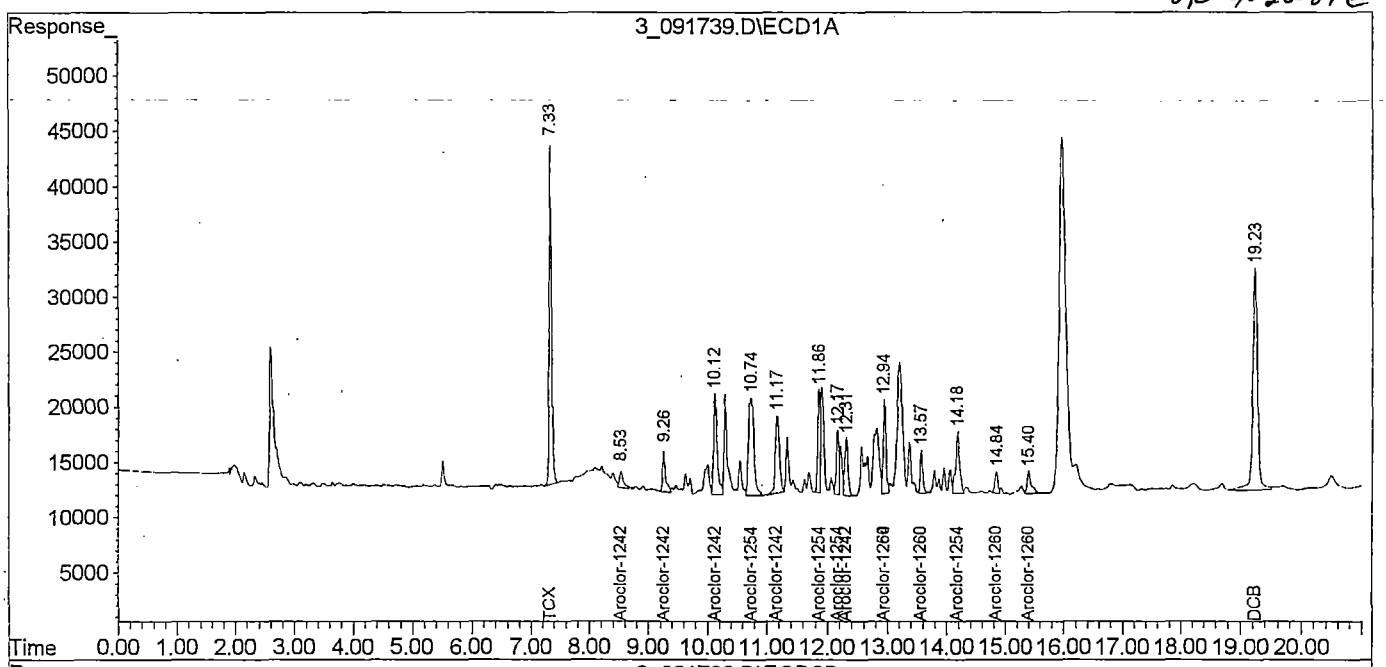
Chromatographic Report

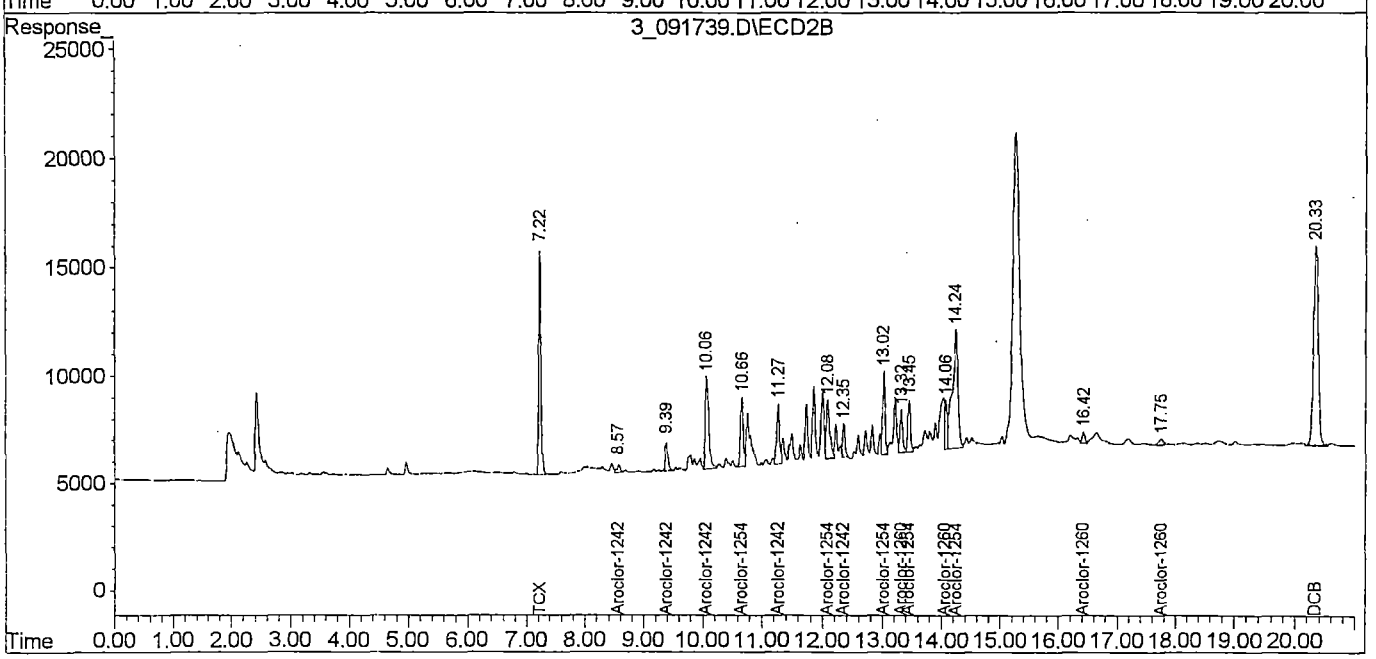
Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091739.D\ECD1A.CH Vial: 39
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091739.D\ECD2B.CH
Acq On : 18 Sep 2001 9:16 Operator: BTB
Sample : 47348.13 *E03D9 * Inst : HP_03
Misc : *EPA*30.8G/5.0ML*42 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 24 15:58 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

OK 9-25-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091739.D\ECD1A.CH Vial: 39
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091739.D\ECD2B.CH
Acq On : 18 Sep 2001 9:16 Operator: BTB
Sample : 47348.13 *E03D9 * Inst : HP_03
Misc : *EPA*30.8G/5.0ML*42 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 24 15:58 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

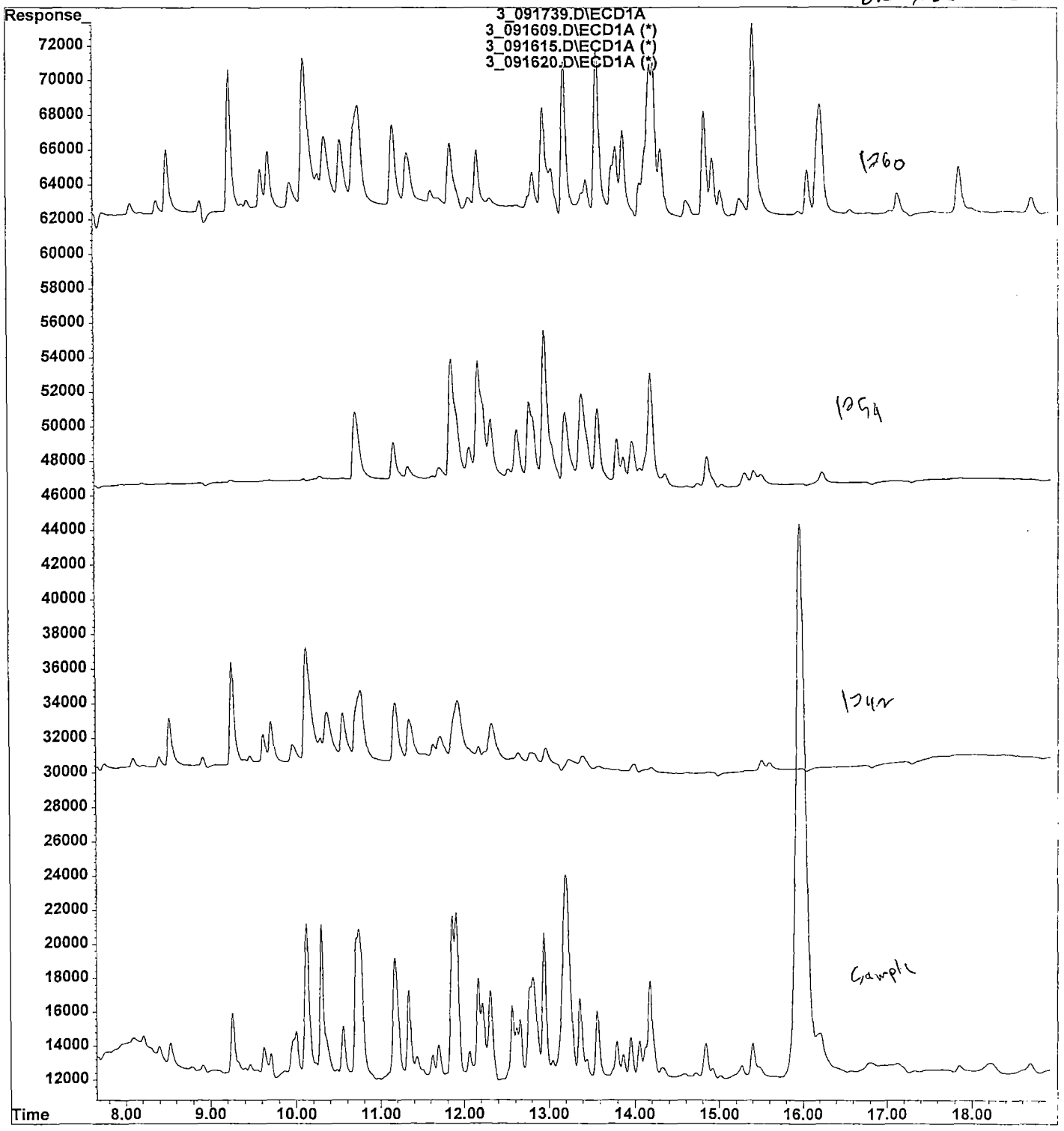
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.33	7.22	935210	281259	9.656	9.715	
	Spiked Amount 11.196			Recovery	=	86.25%	86.77%	
22)	S DCB	19.23	20.34	1097960	493498	10.9	11.3	
	Spiked Amount 11.196			Recovery	=	✓97.36%	✓100.93%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.53	8.57	75014	14997	37.1	26.5	#
8)	L4 Aroclor-1242 {2}	9.26	9.39	137100	41182	38.9	33.6	
9)	L4 Aroclor-1242 {3}	10.13	10.06	379607	183460	58.4	77.7	#
10)	L4 Aroclor-1242 {4}	11.17	11.27	323119	91826	113.3	118.8	
11)	L4 Aroclor-1242 {5}	12.31	12.35	200255	46360	90.1	67.6	
	Sum Aroclor-1242			1115095	377826	337.8	324.1	
	Average Aroclor-1242					67.555	64.825	
12)	L6 Aroclor-1254	10.74	10.66	573076	105226	158.6	120.9	
13)	L6 Aroclor-1254 {2}	11.86	12.09	252334	110418	37.7	56.3	#
14)	L6 Aroclor-1254 {3}	12.17	13.02	175294	119594	28.6	45.5	#
15)	L6 Aroclor-1254 {4}	12.94	13.45	272501	73140	38.6	50.4	#
16)	L6 Aroclor-1254 {5}	14.18	14.24	258903	371566	45.3	191.4	#
	Sum Aroclor-1254			1532108	779945	308.9	464.6	
	Average Aroclor-1254					61.785	92.911	
17)	L7 Aroclor-1260	12.94	13.32	272501	63789	71.4	28.4	#
18)	L7 Aroclor-1260 {2}	13.57	14.06	123552	66276	21.3m BTB	45.2	#
19)	L7 Aroclor-1260 {3}	14.84	0.00	74464	0	20.1 09240	N.D. d	#
20)	L7 Aroclor-1260 {4}	15.40	16.42	102153	18162	12.2	9.185	
21)	L7 Aroclor-1260 {5}	0.00	17.76	0	19037	N.D. d	13.7	#
	Sum Aroclor-1260			572670	167265	70.0	54.0	
	Average Aroclor-1260					31.256	24.098	

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

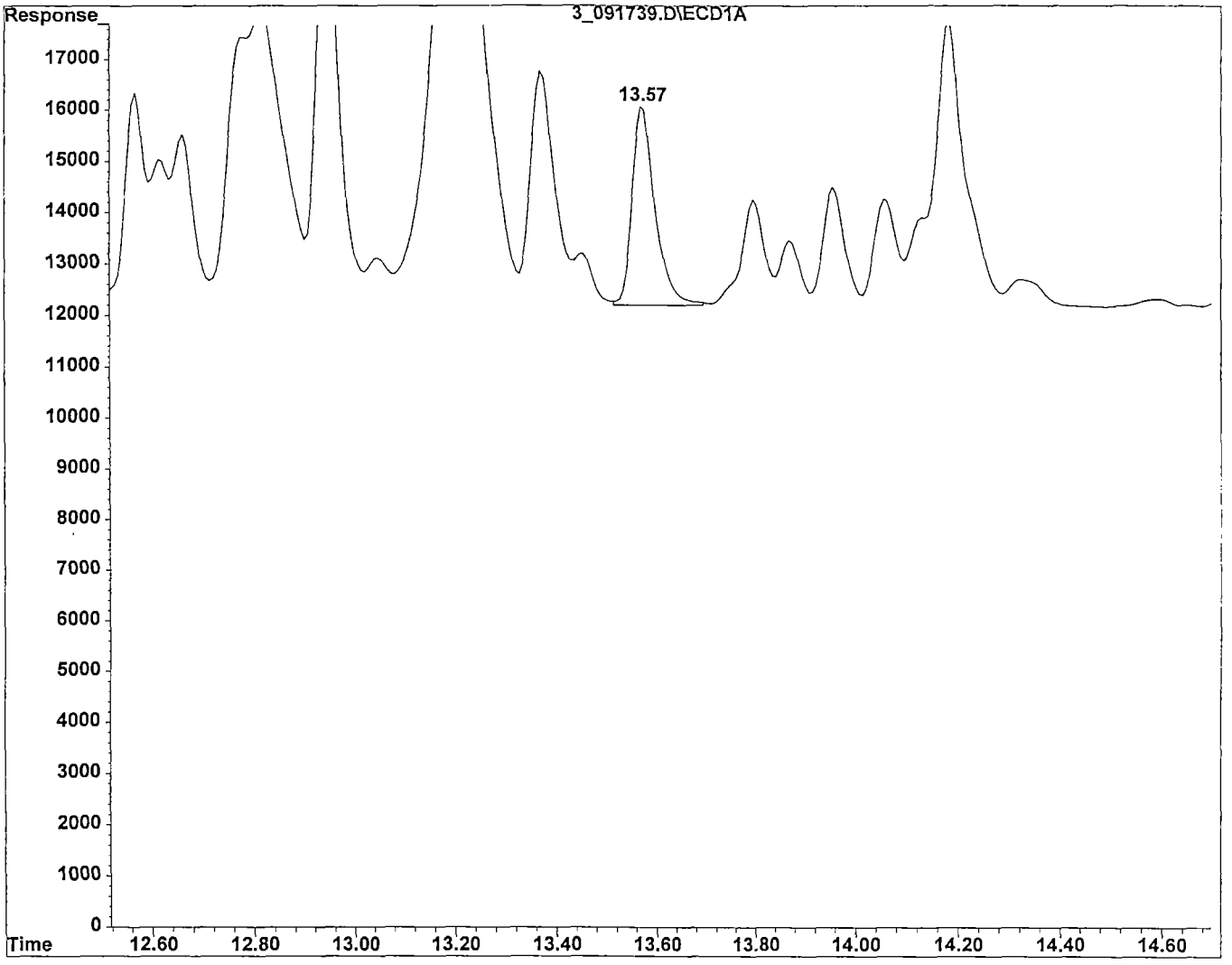
File : F:\HPCHEM\HP\3\DATA\09_17_01\3_091739.D
Operator : BTB
Acquired : 18 Sep 2001 9:16 using AcqMethod OLM03.M
Instrument : HP_03
Sample Name: 47348.13 *E03D9 *
Misc Info : *EPA*30.8G/5.0ML*42
Vial Number: 39

OK 9-25-01



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091739.D
Date Acquired: 18 Sep 2001 9:16
Inst: HP_03 Operator ID: BTB
Name: 47348.13 *E03D9 *
Misc: *EPA*30.8G/5.0ML*42
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 24 15:58 2001 Quant Results File: XPCBI16.RES



OK 9-25-01 DH

Aroclor-1260 {2} 13.57min area: 123552 m

Integration Time Range: 13.52 - 13.70

BTB 092401

F:\HPCHEM\HP\3\DATA\09_17_01\3_091739.D
Report generated: Mon Sep 24 16:13:17 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E03E0

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Matrix: (soil/water) SOIL Lab Sample ID: 47348.14

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

% Moisture: 41 decanted: (Y/N) __ Date Received: 08/20/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/23/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/18/01

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	56	UJ
11104-28-2	Aroclor-1221	56	UJ
11141-16-5	Aroclor-1232	56	UJ
53469-21-9	Aroclor-1242	48	J
12672-29-6	Aroclor-1248	56	UJ
11097-69-1	Aroclor-1254	50	J
11096-82-5	Aroclor-1260	11	J
Surrogate amount spiked		11.22	

109

TBS
10-11-01

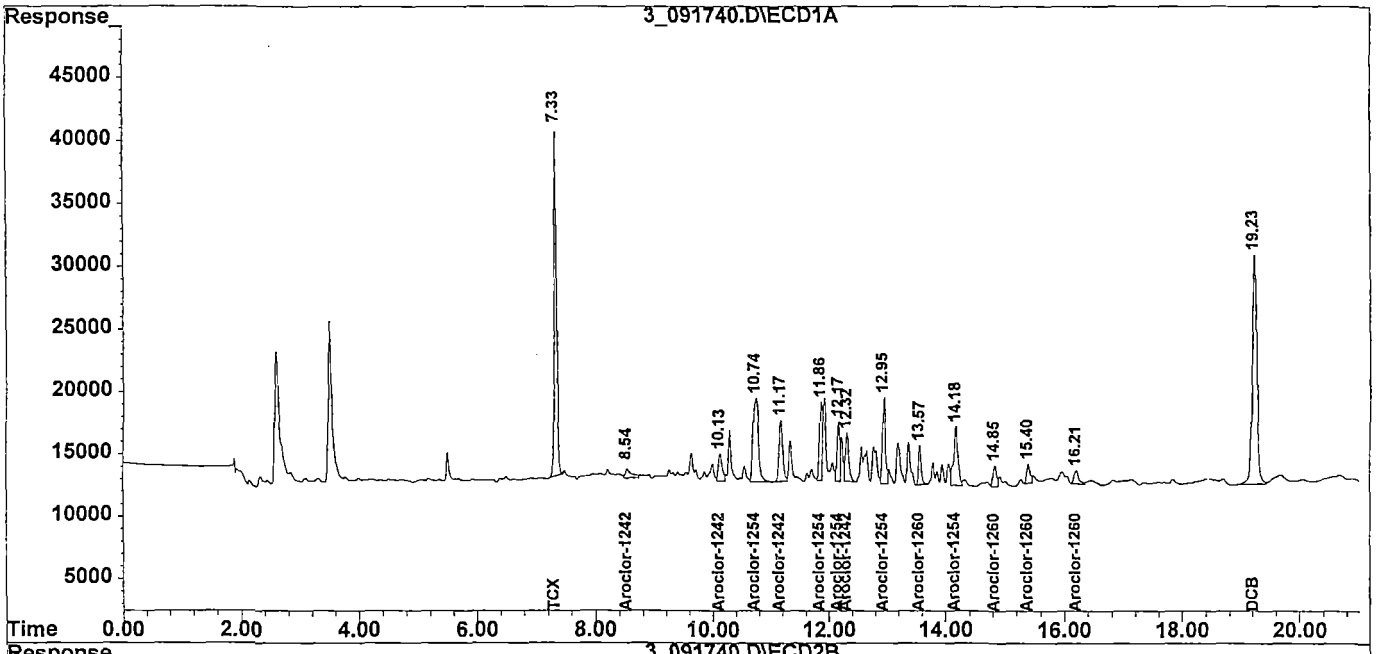
Chromatographic Report

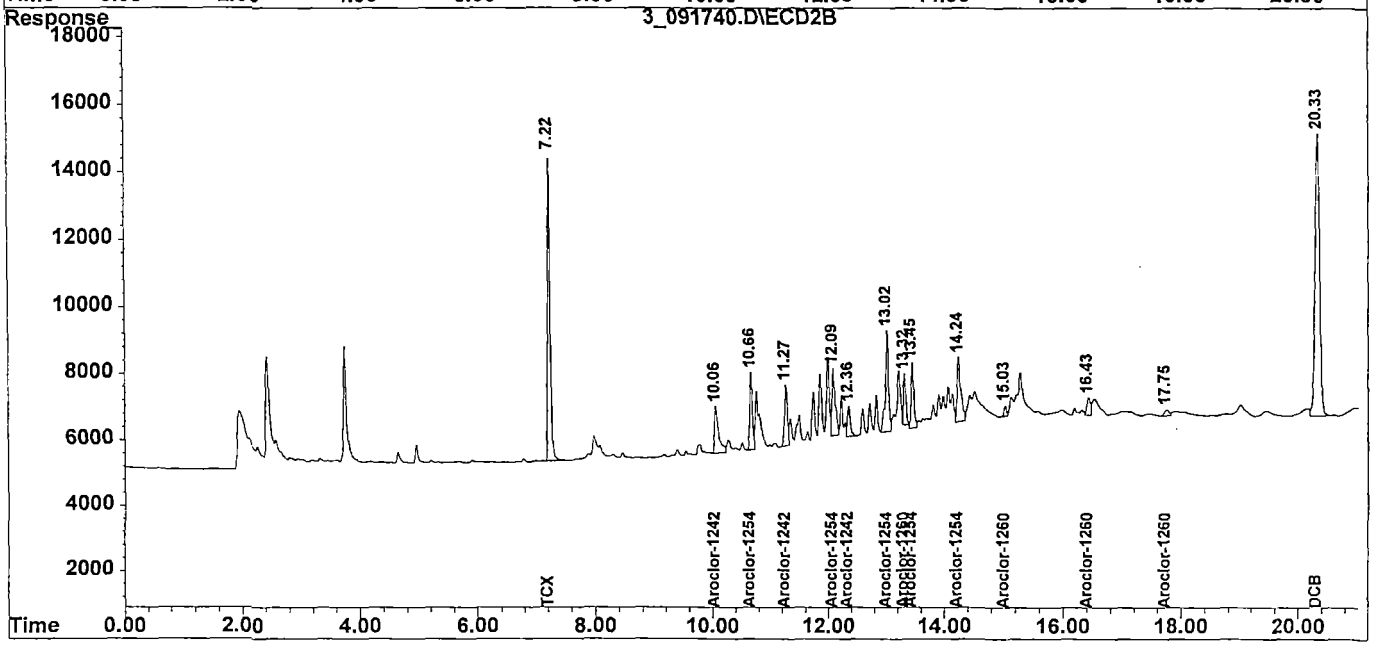
Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091740.D\ECD1A.CH Vial: 40
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091740.D\ECD2B.CH
Acq On : 18 Sep 2001 9:42 Operator: BTB
Sample : 47348.14 *E03E0 * Inst : HP_03
Misc : *EPA*30.2G/5.0ML*41 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 11:35 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

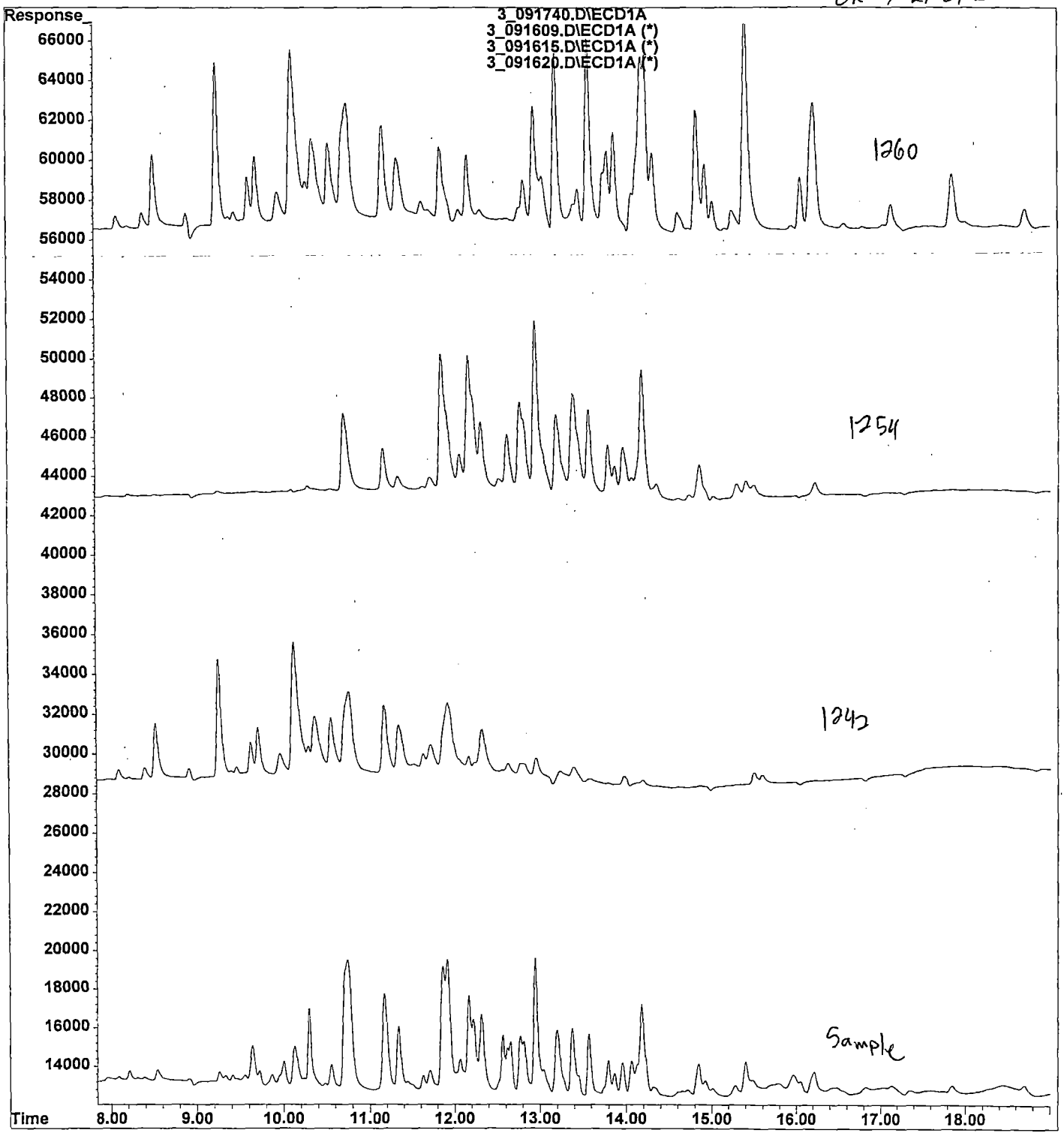
OK 9-25-01





File : F:\HPCHEM\HP\3\DATA\09_17_01\3_091740.D
Operator : BTB
Acquired : 18 Sep 2001 9:42 using AcqMethod OLM03.M
Instrument : HP_03
Sample Name: 47348.14 *E03E0 *
Misc Info : *EPA*30.2G/5.0ML*41
Vial Number: 40

OK 9-21-01



Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091740.D\ECD1A.CH Vial: 40
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091740.D\ECD2B.CH
Acq On : 18 Sep 2001 9:42 Operator: BTB
Sample : 47348.14 *E03E0 * Inst : HP_03
Misc : *EPA*30.2G/5.0ML*41 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 11:35 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

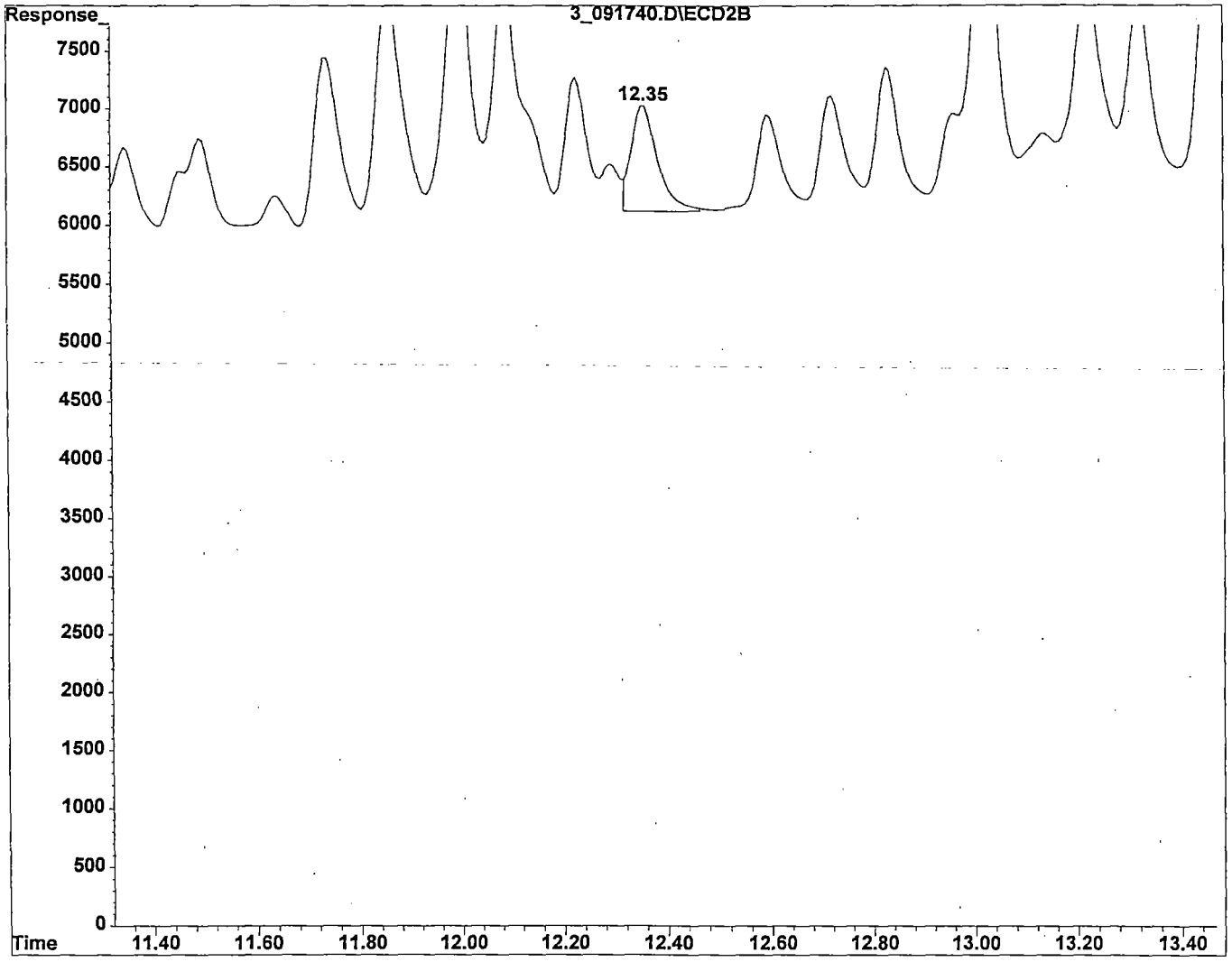
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.33	7.22	855947	260182	8.860	9.010	
	Spiked Amount 11.225			Recovery	=	78.93%	80.27%	
22)	S DCB	19.23	20.33	969699	441966	9.673	10.1	
	Spiked Amount 11.225			Recovery	=	86.18%	89.98%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.54	0.00	57628	0	28.6	N.D.	#
9)	L4 Aroclor-1242 {3}	10.13	10.06	98960	66479	15.3	28.2	#
10)	L4 Aroclor-1242 {4}	11.17	11.27	221968	60916	78.0	79.0	
11)	L4 Aroclor-1242 {5}	12.32	12.35	157895	31692	71.2	46.3m	# BTB 091901
	Sum Aroclor-1242			536451	159087	193.1	153.5	
	Average Aroclor-1242					48.267	51.175	
12)	L6 Aroclor-1254	10.74	10.67	442568	73201	122.8	84.3	#
13)	L6 Aroclor-1254 {2}	11.86	12.09	191815	80859	28.7	41.4	#
14)	L6 Aroclor-1254 {3}	12.17	13.02	150882	117669	24.7	44.9	#
15)	L6 Aroclor-1254 {4}	12.95	13.46	243533	62154	34.6	43.0	
16)	L6 Aroclor-1254 {5}	14.18	14.24	236044	87725	41.4	45.3	
	Sum Aroclor-1254			1264842	421607	252.3	258.8	
	Average Aroclor-1254					50.463	51.767	
17)	L7 Aroclor-1260	0.00	13.32	0	45748	N.D. d	20.4m	#
18)	L7 Aroclor-1260 {2}	13.57	0.00	99251	0	17.1	N.D. d	#
19)	L7 Aroclor-1260 {3}	14.85	15.03	67594	9593	18.3	4.987	#
20)	L7 Aroclor-1260 {4}	15.40	16.43	57321	21147	6.882	10.7	#
21)	L7 Aroclor-1260 {5}	16.22	17.76	61010	10095	9.619	7.260	
	Sum Aroclor-1260			285177	86583	29.1	24.3	
	Average Aroclor-1260					12.978	10.843	

(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\3\DATA\09_17_01\3_091740.D
Date Acquired: 18 Sep 2001 9:42
Inst: HP_03 Operator ID: BTB
Name: 47348.14 *E03E0 *
Misc: *EPA*30.2G/5.0ML*41
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:35 2001 Quant Results File: XPCBI16.RES



OK 9-21-01 RD

Aroclor-1242 {5} #2 12.35min area: 31692 m

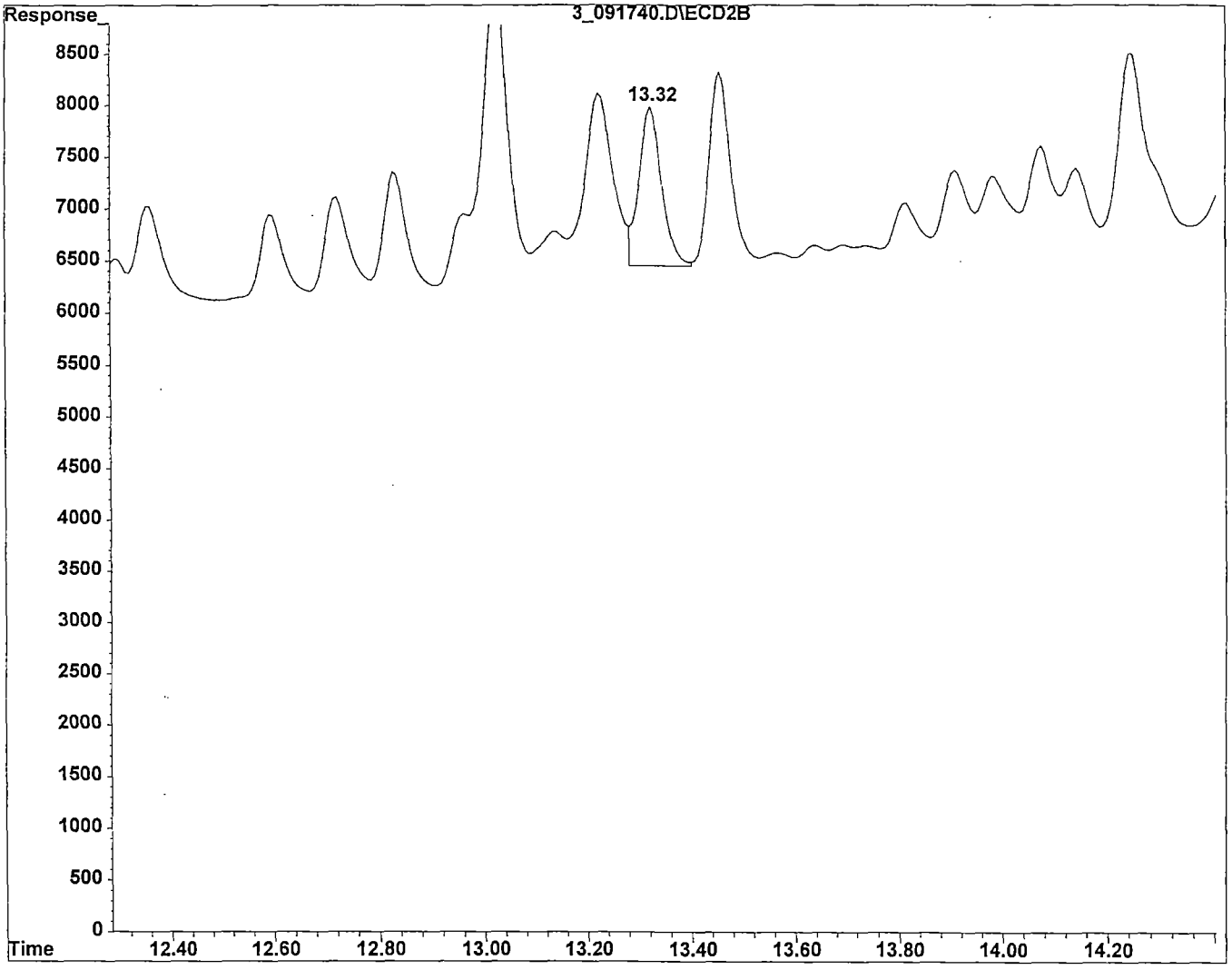
Integration Time Range: 12.32 - 12.47

BTB
091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091740.D
Report generated: Wed Sep 19 12:00:50 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091740.D
Date Acquired: 18 Sep 2001 9:42
Inst: HP_03 Operator ID: BTB
Name: 47348.14 *E03E0 *
Misc: *EPA*30.2G/5.0ML*41
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:35 2001 Quant Results File: XPCBI16.RES



OK 9-21-01

Aroclor-1260 #2 13.32min area: 45748 m

Integration Time Range: 13.28 - 13.40

BTB 09190

F:\HPCHEM\HP\3\DATA\09_17_01\3_091740.D
Report generated: Wed Sep 19 12:00:50 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E03E1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Matrix: (soil/water) SOIL Lab Sample ID: 47348.15

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

% Moisture: 31 decanted: (Y/N) __ Date Received: 08/20/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/23/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/18/01

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	48	UJ
11104-28-2	Aroclor-1221	48	U
11141-16-5	Aroclor-1232	48	U
53469-21-9	Aroclor-1242	50	J
12672-29-6	Aroclor-1248	48	UJ
11097-69-1	Aroclor-1254	53	J
11096-82-5	Aroclor-1260	12	JP
Surrogate amount spiked		9.66	

115

apply this results
TBS 10-11-01

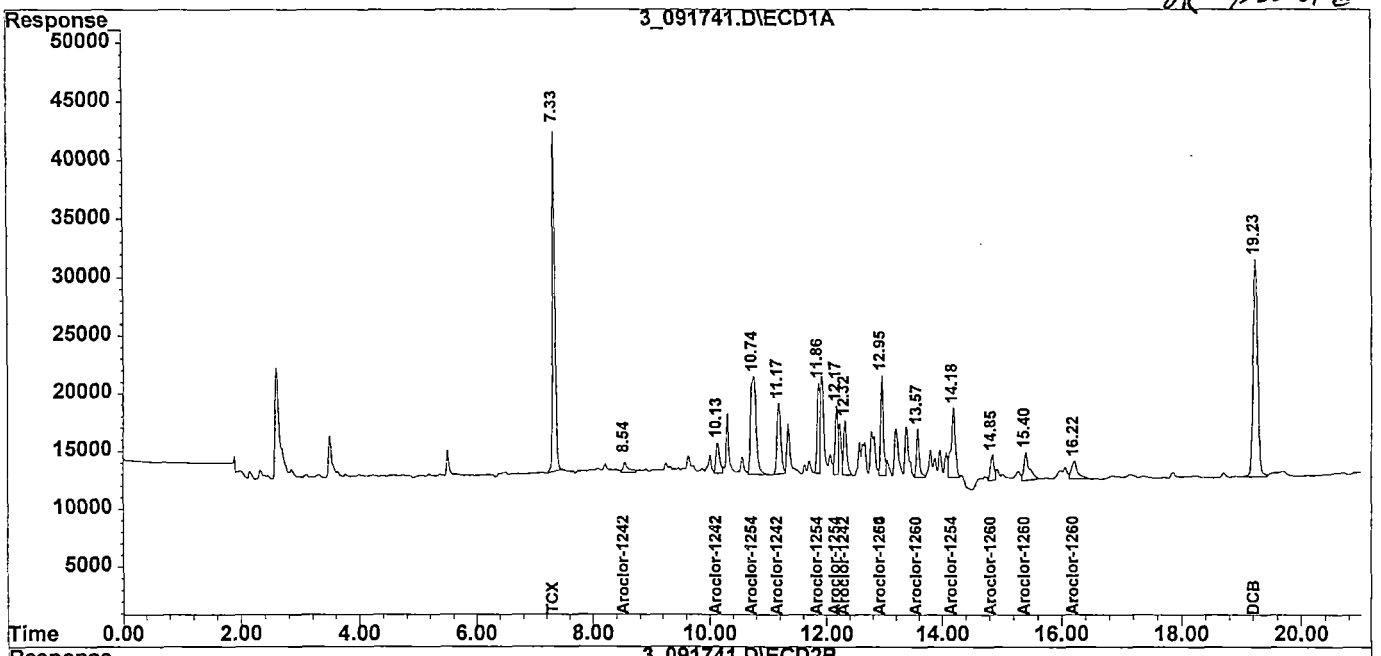
Chromatographic Report

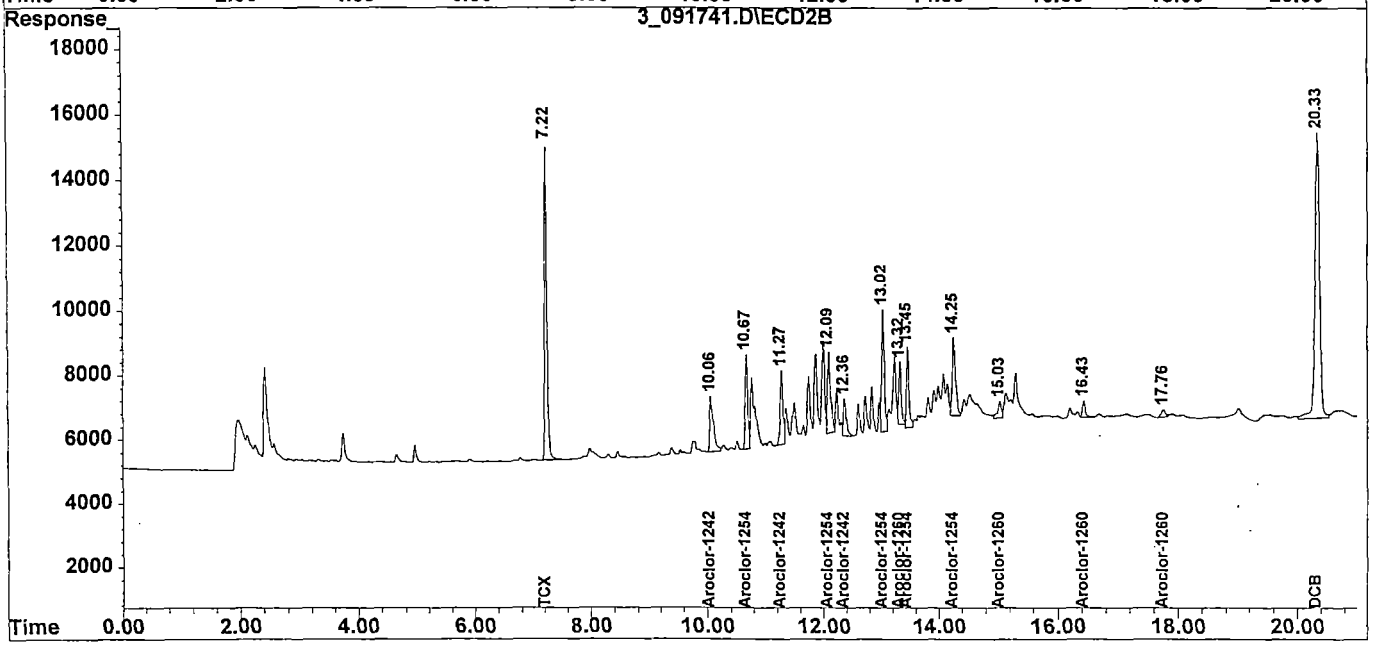
Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091741.D\ECD1A.CH Vial: 41
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091741.D\ECD2B.CH
Acq On : 18 Sep 2001 10:08 Operator: BTB
Sample : 47348.15 *E03E1 * Inst : HP_03
Misc : *EPA*30G/5.0ML*31, Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 11:39 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

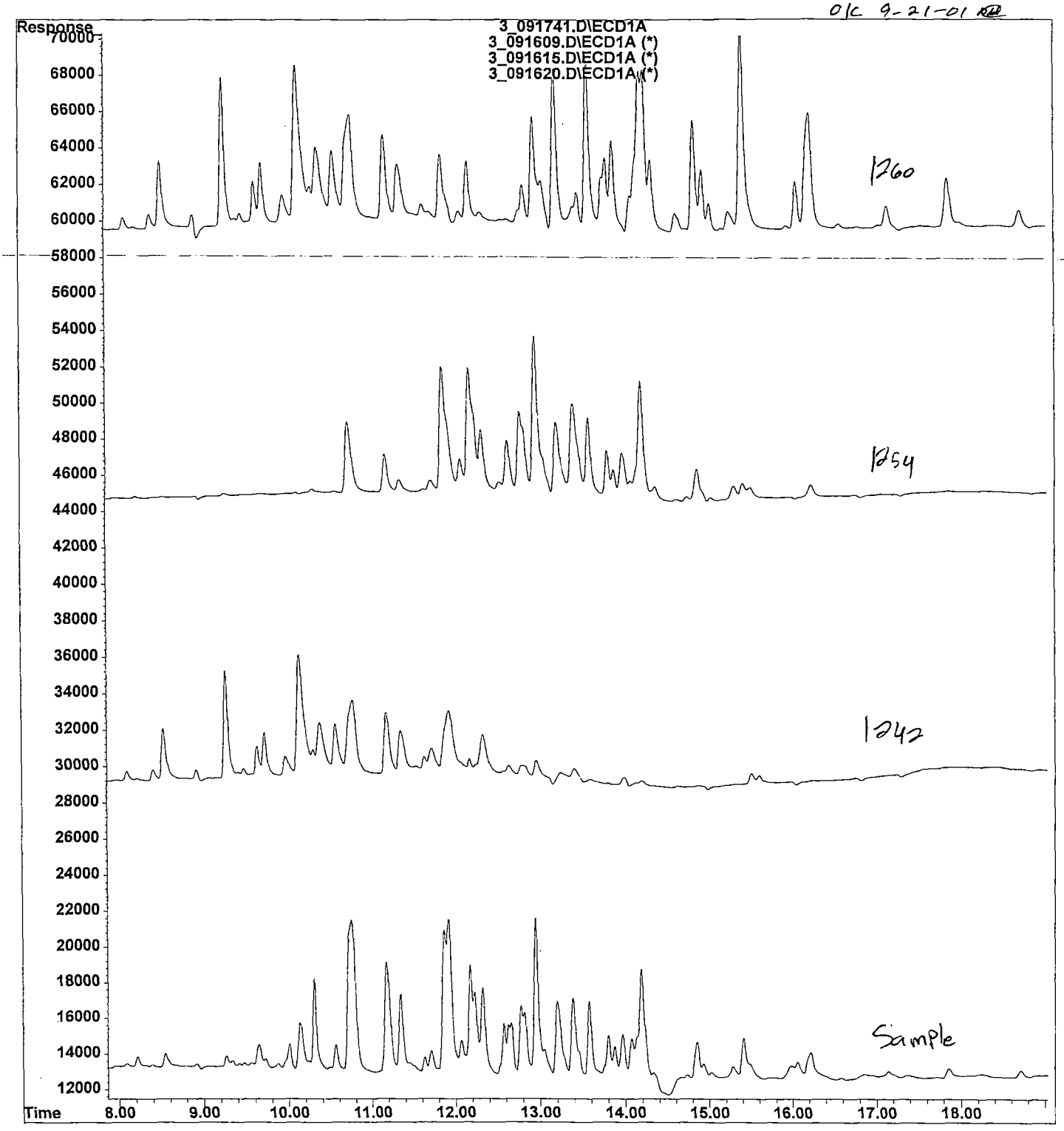
OK 9-25-01





File : F:\HPCHEM\HP\3\DATA\09_17_01\3_091741.D
Operator : BTB
Acquired : 18 Sep 2001 10:08 using AcqMethod OLM03.M
Instrument : HP_03
Sample Name: 47348.15 *E03E1 *
Misc Info : *EPA*30G/5.0ML*31
Vial Number: 41

O/C 9-21-01



Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091741.D\ECD1A.CH Vial: 41
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091741.D\ECD2B.CH
Acq On : 18 Sep 2001 10:08 Operator: BTB
Sample : 47348.15 *E03E1 * Inst : HP_03
Misc : *EPA*30G/5.0ML*31 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 11:39 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

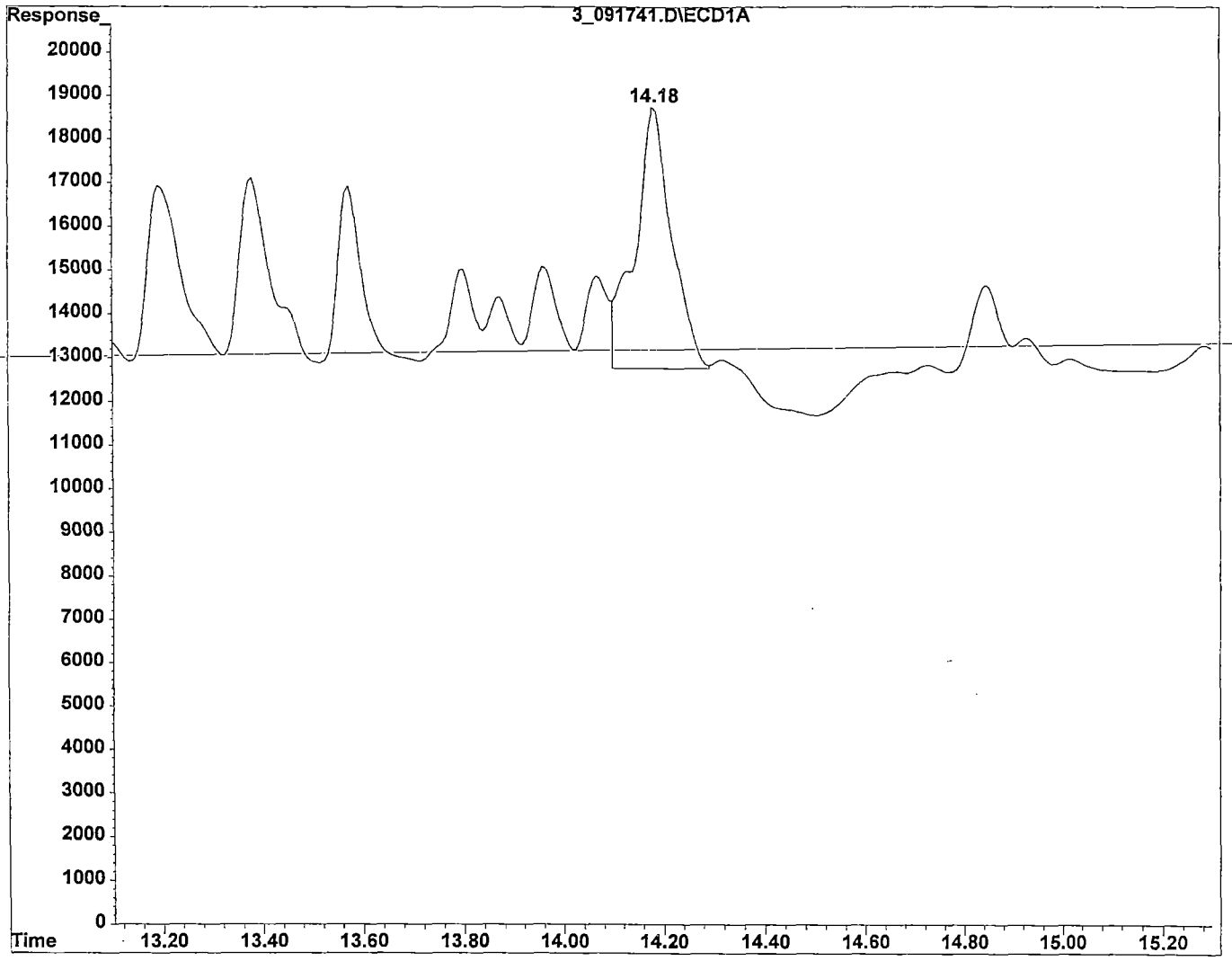
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.33	7.22	916460	272624	8.166	8.126	
	Spiked Amount 9.662			Recovery	=	84.52%	84.10%	
22)	S DCB	19.24	20.34	966797	481261	8.302	9.487	
	Spiked Amount 9.662			Recovery	=	85.93%	98.19%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.54	0.00	55980	0	23.9	N.D.	#
9)	L4 Aroclor-1242 {3}	10.13	10.06	119767	76935	15.9	28.1	#
10)	L4 Aroclor-1242 {4}	11.17	11.27	281896	75910	85.3	84.7	
11)	L4 Aroclor-1242 {5}	12.32	12.36	192519	41232	74.7	51.9m	# BTB 091901
	Sum Aroclor-1242			650163	194078	199.8	164.7	
	Average Aroclor-1242					49.954	54.903	
12)	L6 Aroclor-1254	10.74	10.67	562722	90700	134.4	89.9	#
13)	L6 Aroclor-1254 {2}	11.87	12.09	236964	99696	30.6	43.9	#
14)	L6 Aroclor-1254 {3}	12.17	13.03	182462	135177	25.7	44.4	#
15)	L6 Aroclor-1254 {4}	12.95	13.45	302782	77368	37.1	46.0m	
16)	L6 Aroclor-1254 {5}	14.18	14.25	299908	96480	45.3m BTB 091901	42.9m	
	Sum Aroclor-1254			1584838	499421	273.1	267.1	
	Average Aroclor-1254					54.612	53.427	
17)	L7 Aroclor-1260	12.95	13.32	302782	57652	68.5	22.1m	#
18)	L7 Aroclor-1260 {2}	13.57	0.00	146912	0	21.8m	N.D. d	#
19)	L7 Aroclor-1260 {3}	14.85	15.04	91708	21114	21.3m	9.448	#
20)	L7 Aroclor-1260 {4}	15.41	16.43	145084	19755	15.0	8.622	#
21)	L7 Aroclor-1260 {5}	16.22	17.76	113671	11792	15.4	7.300	#
	Sum Aroclor-1260			800157	110313	68.6	22.9	
	Average Aroclor-1260					28.419	11.875	

(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\3\DATA\09_17_01\3_091741.D
Date Acquired: 18 Sep 2001 10:08
Inst: HP_03 Operator ID: BTB
Name: 47348.15 *E03E1 *
Misc: *EPA*30G/5.0ML*31
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:39 2001 Quant Results File: XPCBI16.RES



Aroclor-1254 {5} 14.18min area: 299908 m

Integration Time Range: 14.10 - 14.30

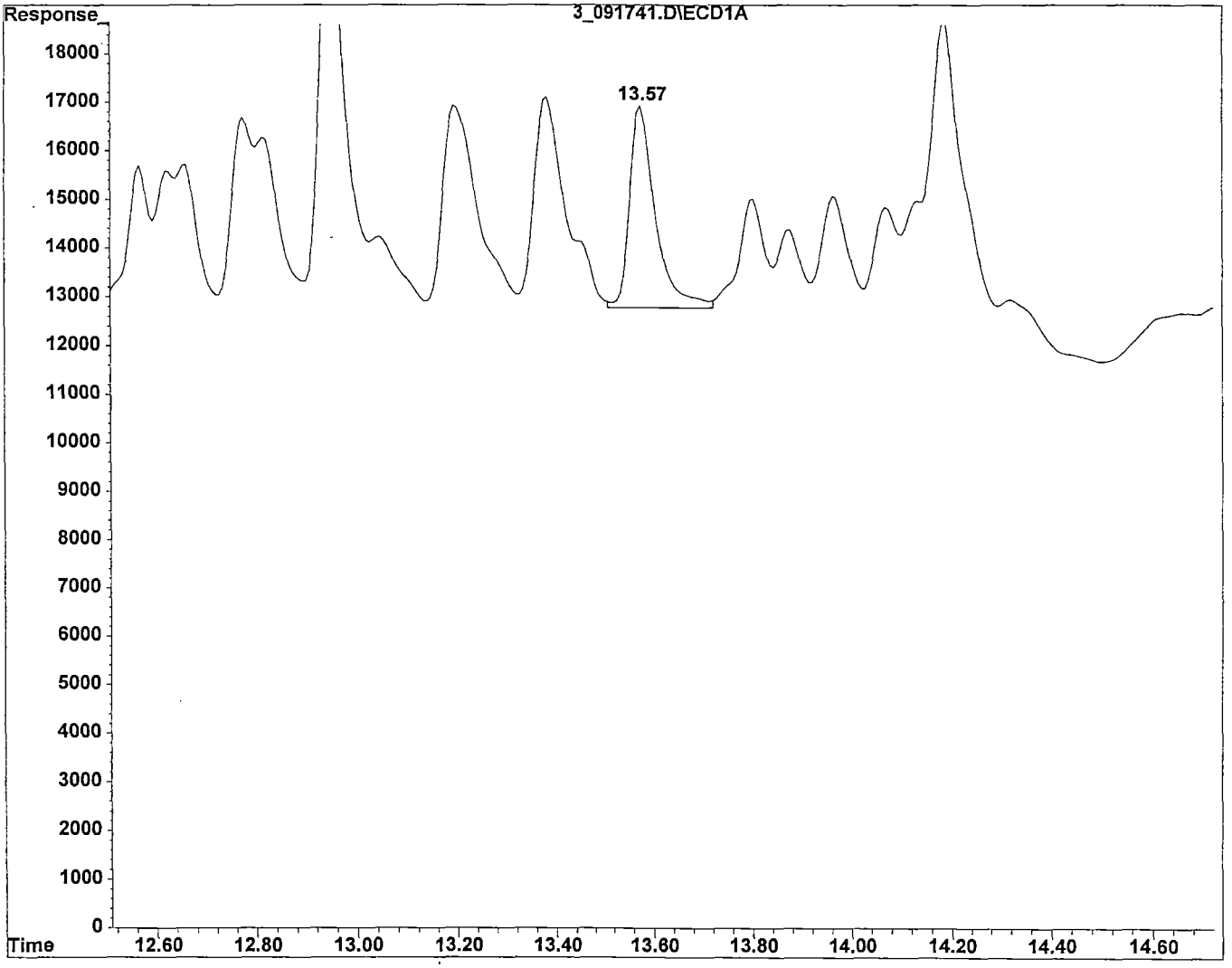
ok 9-25-01 GH

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091741.D
Report generated: Wed Sep 19 12:00:51 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091741.D
Date Acquired: 18 Sep 2001 10:08
Inst: HP_03 Operator ID: BTB
Name: 47348.15 *E03E1 *
Misc: *EPA*30G/5.0ML*31
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:39 2001 Quant Results File: XPCBI16.RES



Aroclor-1260 {2} 13.57min area: 146912 m

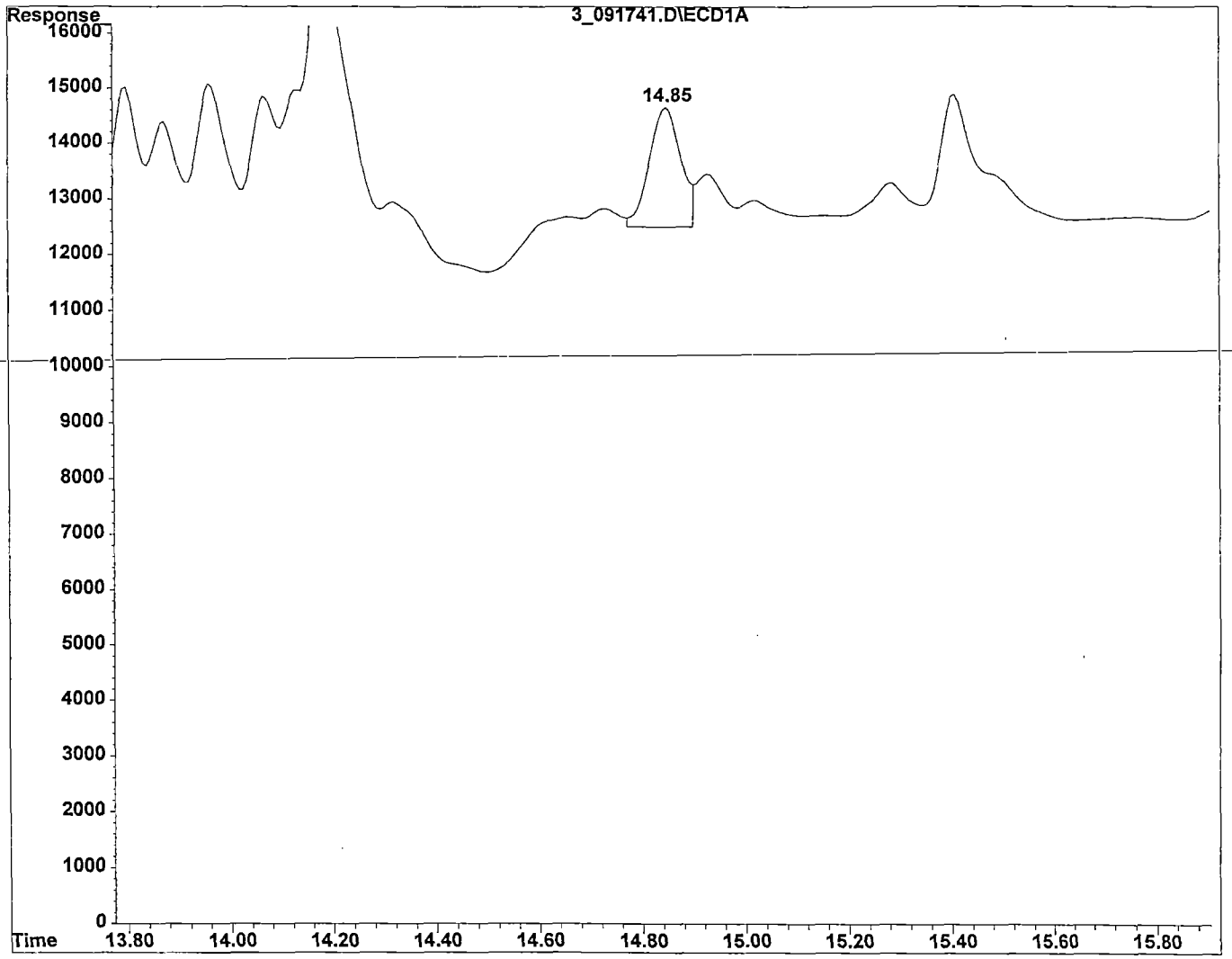
Integration Time Range: 13.51 - 13.72

ok 9-25-01 BTB
BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091741.D
Report generated: Wed Sep 19 12:00:52 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091741.D
Date Acquired: 18 Sep 2001 10:08
Inst: HP_03 Operator ID: BTB
Name: 47348.15 *E03E1 *
Misc: *EPA*30G/5.0ML*31
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:39 2001 Quant Results File: XPCBI16.RES



OK 9-25-01

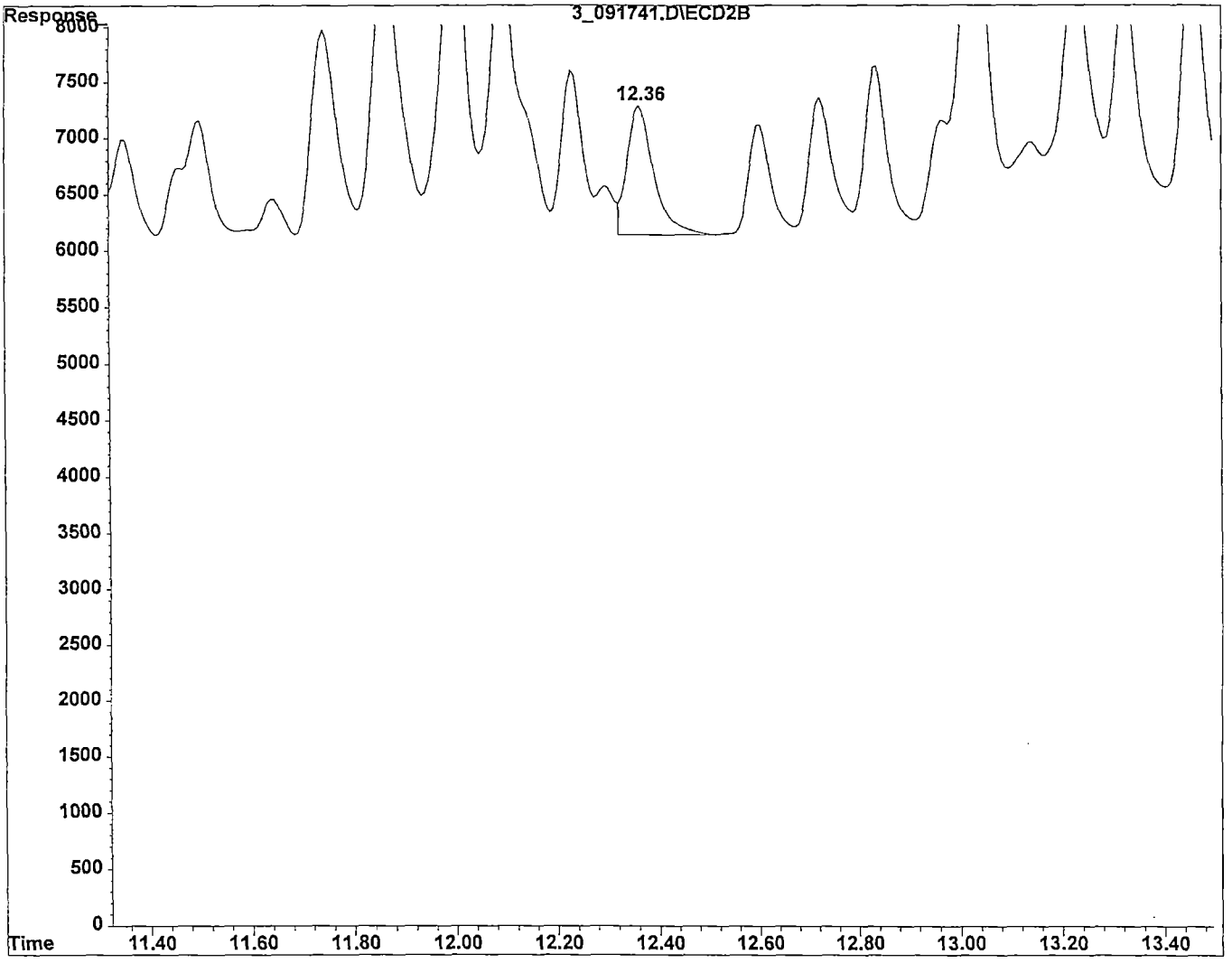
Aroclor-1260 {3} 14.85min area: 91708 m BTB 09/19/01

Integration Time Range: 14.77 - 14.90

F:\HPCHEM\HP\3\DATA\09_17_01\3_091741.D
Report generated: Wed Sep 19 12:00:52 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091741.D
Date Acquired: 18 Sep 2001 10:08
Inst: HP_03 Operator ID: BTB
Name: 47348.15 *E03E1 *
Misc: *EPA*30G/5.0ML*31
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:39 2001 Quant Results File: XPCBI16.RES



OK 9-25-01

Aroclor-1242 {5} #2 12.36min area: 41232 m

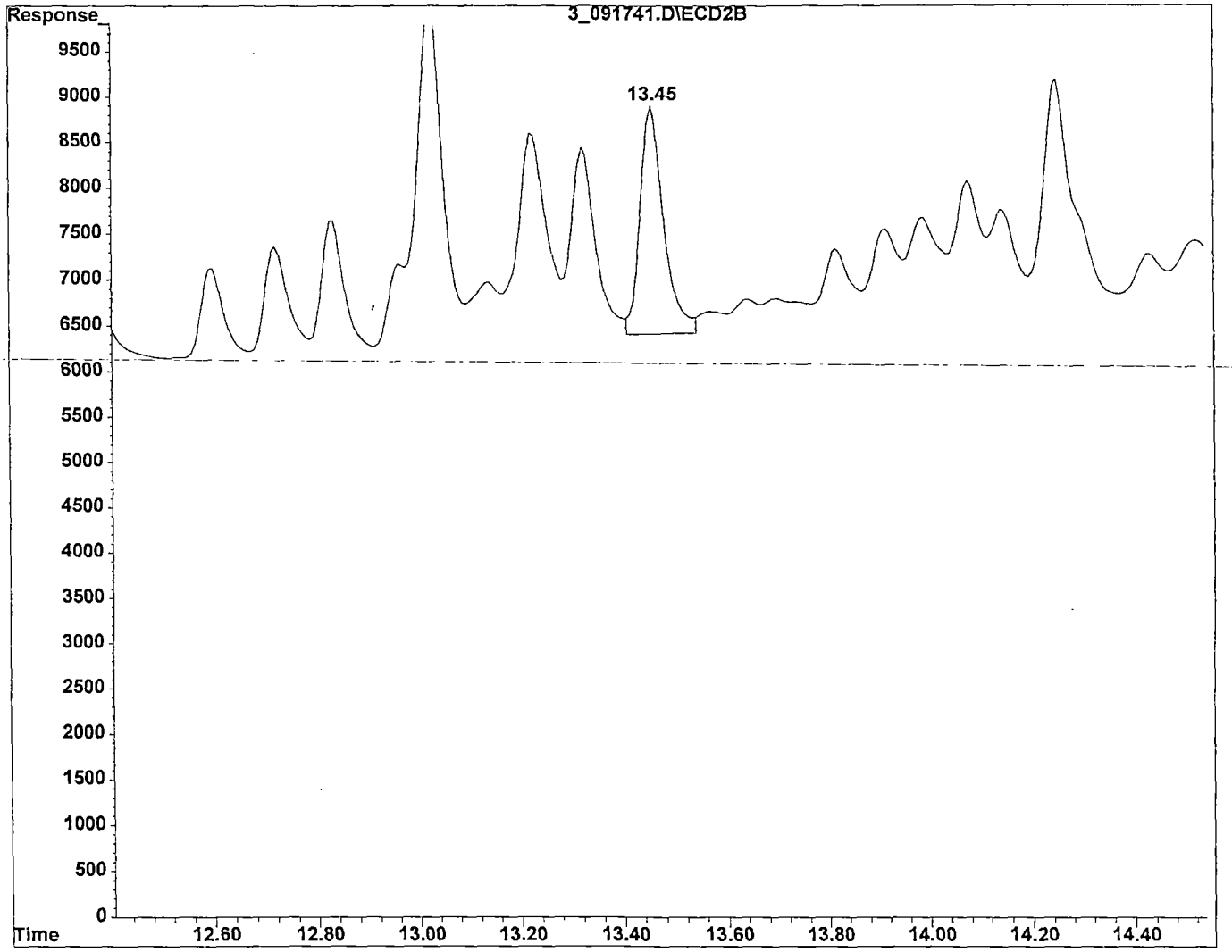
Integration Time Range: 12.32 - 12.49

BTB
091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091741.D
Report generated: Wed Sep 19 12:00:53 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091741.D
Date Acquired: 18 Sep 2001 10:08
Inst: HP_03 Operator ID: BTB
Name: 47348.15 *E03E1 *
Misc: *EPA*30G/5.0ML*31
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:39 2001 Quant Results File: XPCBI16.RES



OK 9-25-01

Aroclor-1254 {4} #2 13.45min area: 77368 m

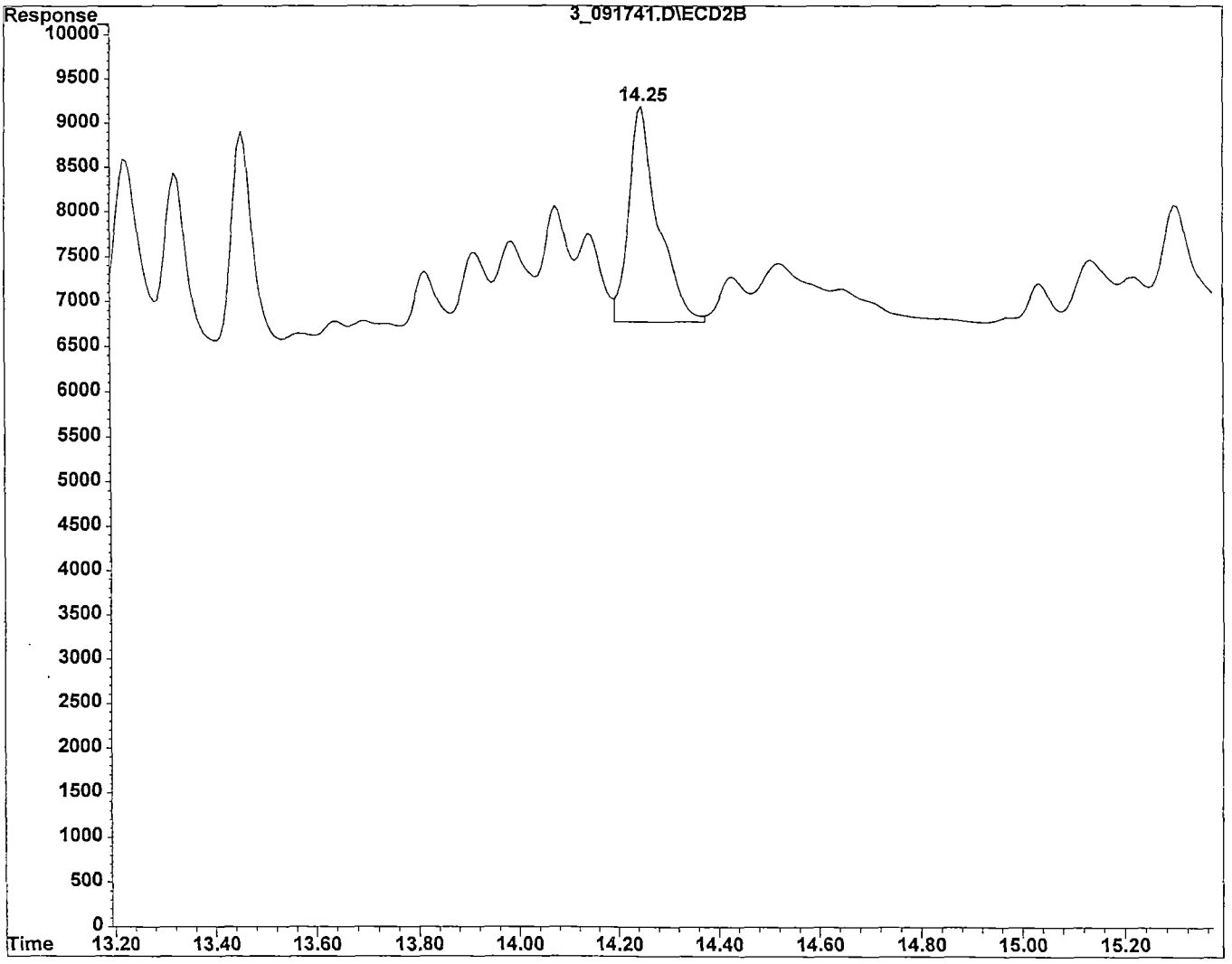
Integration Time Range: 13.40 - 13.54

BTB
091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091741.D
Report generated: Wed Sep 19 12:00:54 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091741.D
Date Acquired: 18 Sep 2001 10:08
Inst: HP_03 Operator ID: BTB
Name: 47348.15 *E03E1 *
Misc: *EPA*30G/5.0ML*31
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:39 2001 Quant Results File: XPCBI16.RES



OK 9-25-01

Aroclor-1254 {5} #2 14.25min area: 96480 m

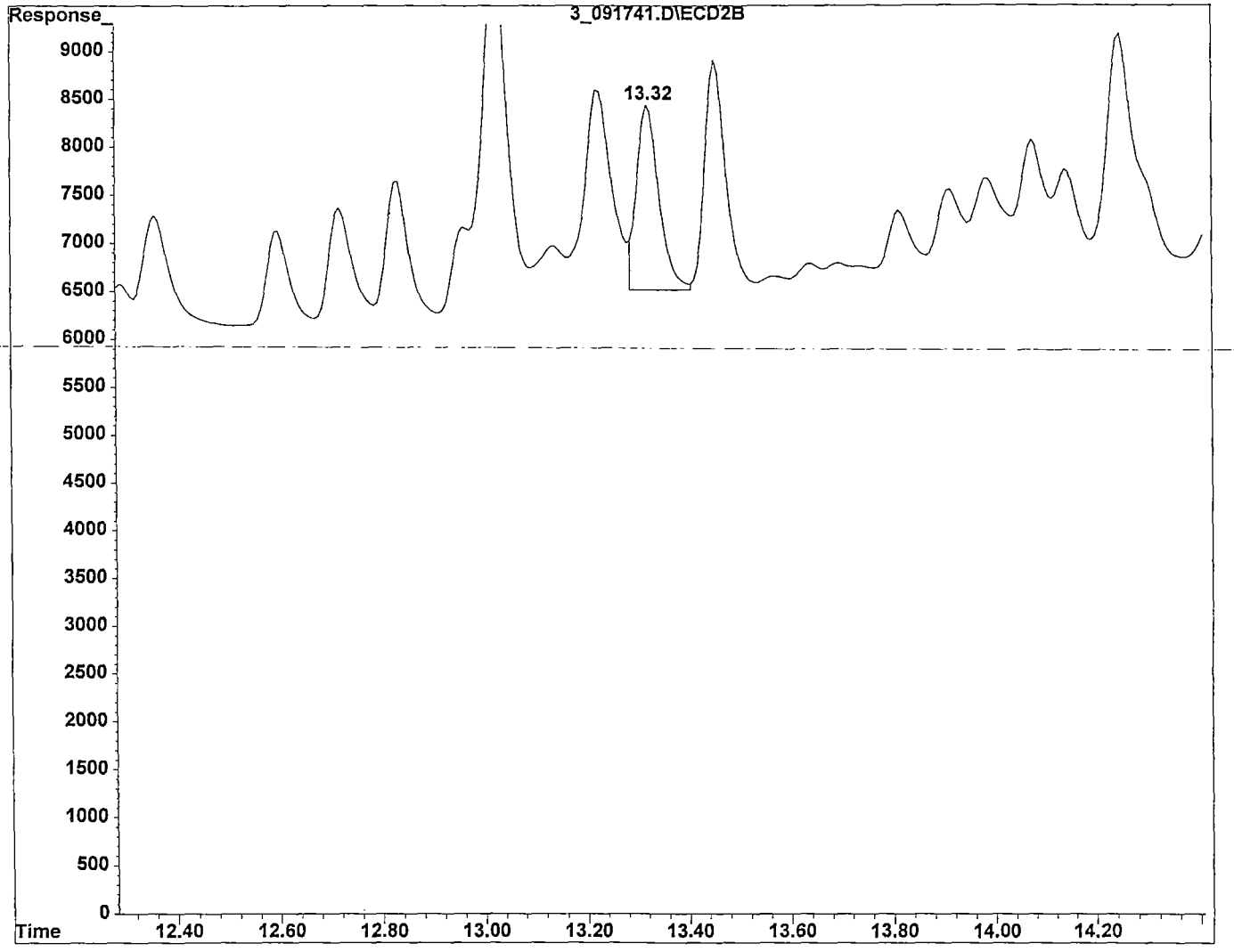
Integration Time Range: 14.19 - 14.37

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091741.D
Report generated: Wed Sep 19 12:00:54 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091741.D
Date Acquired: 18 Sep 2001 10:08
Inst: HP_03 Operator ID: BTB
Name: 47348.15 *E03E1 *
Misc: *EPA*30G/5.0ML*31
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:39 2001 Quant Results File: XPCBI16.RES



OK 9-25-01

Aroclor-1260 #2 13.32min area: 57652 m

Integration Time Range: 13.28 - 13.41

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091741.D
Report generated: Wed Sep 19 12:00:54 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E03E2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Matrix: (soil/water) SOIL Lab Sample ID: 47348.16

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

% Moisture: 33 decanted: (Y/N) __ Date Received: 08/20/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/23/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/18/01

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	48	U J
11104-28-2	Aroclor-1221	48	U J
11141-16-5	Aroclor-1232	48	U J
53469-21-9	Aroclor-1242	55	J
12672-29-6	Aroclor-1248	48	U J
11097-69-1	Aroclor-1254	57	J
11096-82-5	Aroclor-1260	14	J
Surrogate amount spiked		9.76	

126

TBS
10-11-01

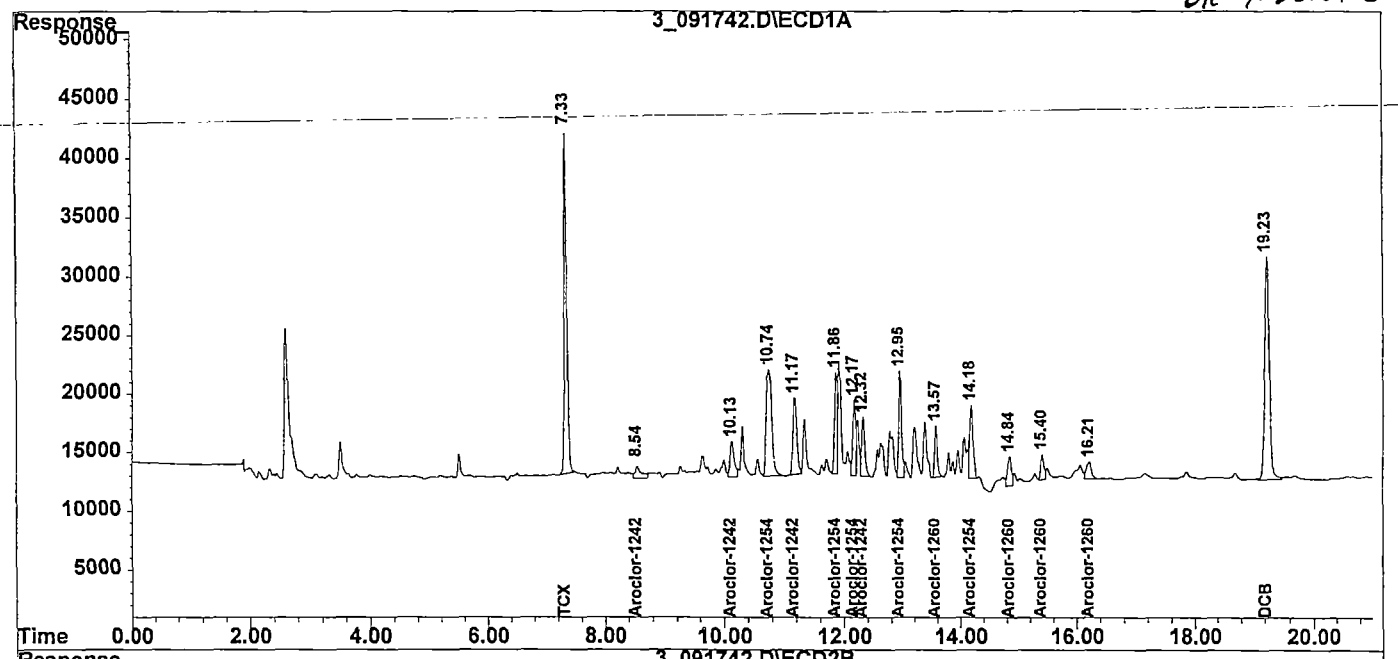
Chromatographic Report

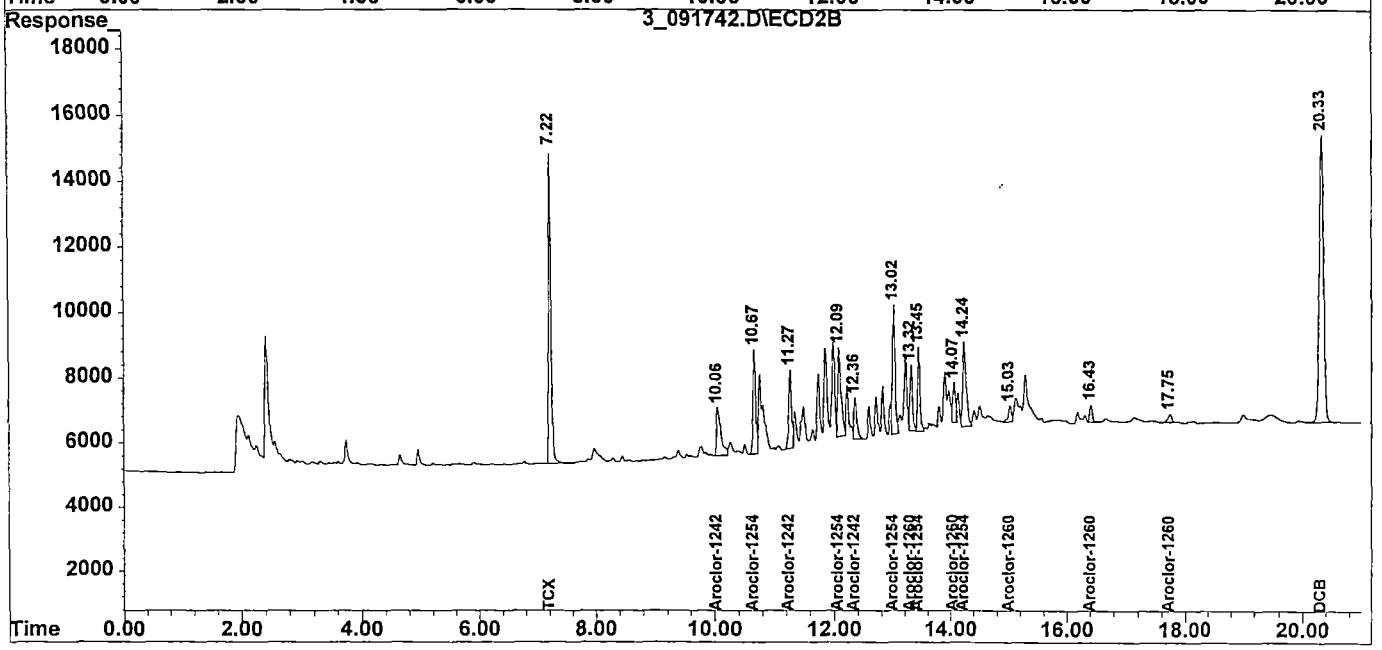
Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091742.D\ECD1A.CH Vial: 42
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091742.D\ECD2B.CH
Acq On : 18 Sep 2001 10:33 Operator: BTB
Sample : 47348.16',*E03E2' * Inst : HP_03
Misc : *EPA*30.6G/5.0ML*33' Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 11:42 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

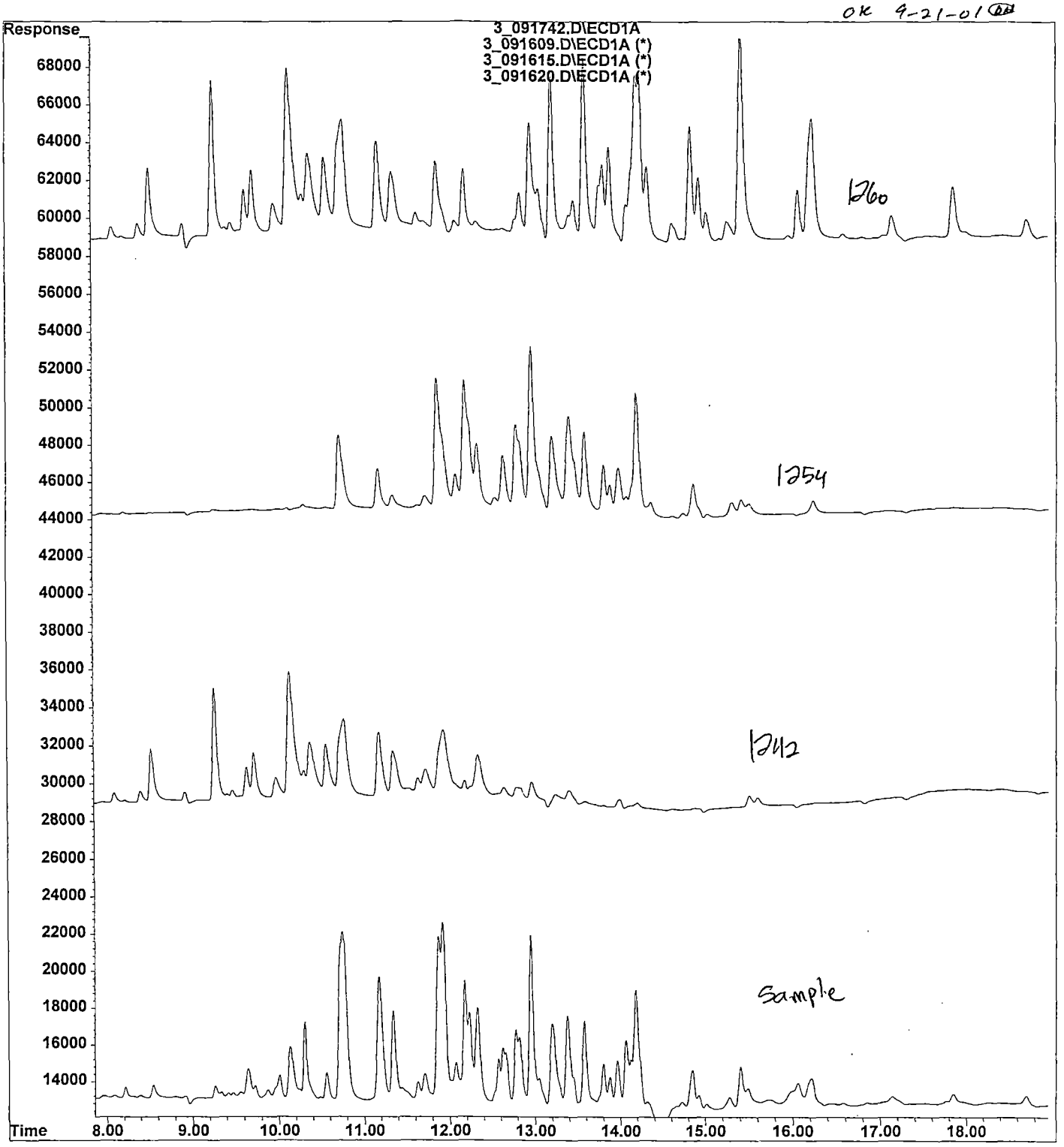
OK 9-25-01 GW





File : F:\HPCHEM\HP\3\DATA\09_17_01\3_091742.D
Operator : BTB
Acquired : 18 Sep 2001 10:33 using AcqMethod OLM03.M
Instrument : HP_03
Sample Name: 47348.16 *E03E2 *
Misc Info : *EPA*30.6G/5.0ML*33
Vial Number: 42

OK 9-21-01



Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091742.D\ECD1A.CH Vial: 42
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091742.D\ECD2B.CH
Acq On : 18 Sep 2001 10:33 Operator: BTB
Sample : 47348.16 *E03E2 * Inst : HP_03
Misc : *EPA*30.6G/5.0ML*33 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 11:42 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

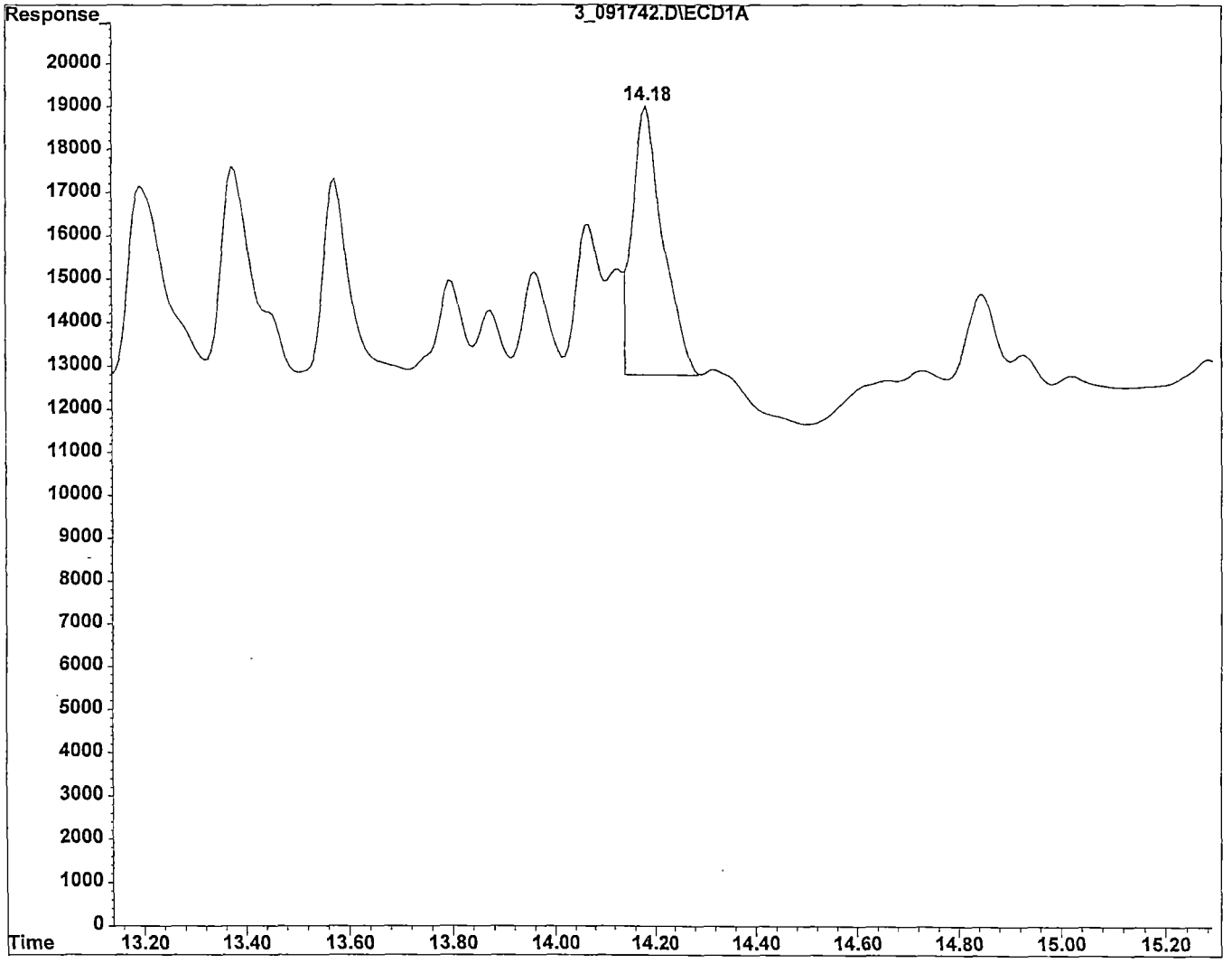
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.33	7.22	897628	266346	8.075	8.016	
	Spiked Amount 9.755			Recovery	=	82.78%	82.17%	
22)	S DCB	19.23	20.33	996041	456532	8.635	9.087	
	Spiked Amount 9.755			Recovery	=	88.52%	93.15%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.54	0.00	76559	0	33.0	N.D.	#
9)	L4 Aroclor-1242 {3}	10.13	10.06	141068	78991	18.9	29.1	#
10)	L4 Aroclor-1242 {4}	11.17	11.27	295119	79891	90.1	90.1	
11)	L4 Aroclor-1242 {5}	12.32	12.36	202302	44896	79.3	57.0m	# BTB 091901
	Sum Aroclor-1242			715047	203778	221.3	176.2	
	Average Aroclor-1242					55.337	58.732	
12)	L6 Aroclor-1254	10.74	10.67	597320	99706	144.0	99.8	#
13)	L6 Aroclor-1254 {2}	11.87	12.09	264170	110262	34.4	49.0	#
14)	L6 Aroclor-1254 {3}	12.17	13.02	197592	134597	28.1	44.6	#
15)	L6 Aroclor-1254 {4}	12.95	13.46	312436	77191	38.6	46.4	
16)	L6 Aroclor-1254 {5}	14.18	14.25	253916	109325	38.7m BTB	49.1	#
	Sum Aroclor-1254			1625434	531081	283.9 091901	288.9	
	Average Aroclor-1254					56.782	57.778	
17)	L7 Aroclor-1260	0.00	13.32	0	61668	N.D. d	23.9m	#
18)	L7 Aroclor-1260 {2}	13.57	14.07	145318	40012	21.8	23.8m	
19)	L7 Aroclor-1260 {3}	14.85	15.04	113231	19006	26.6	8.586	#
20)	L7 Aroclor-1260 {4}	15.40	16.43	77954	17421	8.134	7.677	
21)	L7 Aroclor-1260 {5}	16.22	17.76	89362	11088	12.2	6.931	#
	Sum Aroclor-1260			425865	149196	33.6	34.6	
	Average Aroclor-1260					17.196	14.172	

(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\3\DATA\09_17_01\3_091742.D
Date Acquired: 18 Sep 2001 10:33
Inst: HP_03 Operator ID: BTB
Name: 47348.16 *E03E2 *
Misc: *EPA*30.6G/5.0ML*33
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:42 2001 Quant Results File: XPCBI16.RES



OK 9-25-01

Aroclor-1254 {5} 14.18min area: 253916 m

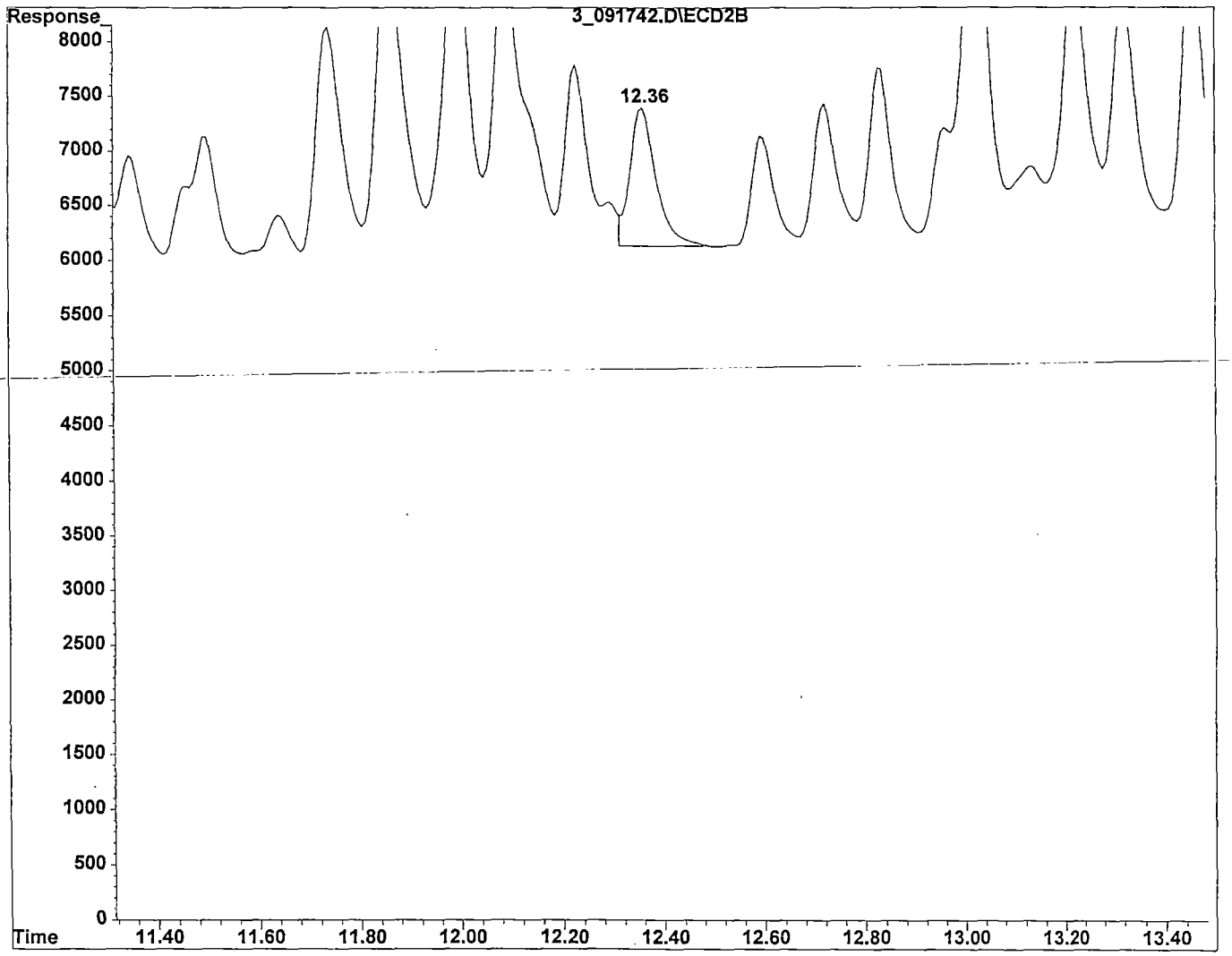
Integration Time Range: 14.14 - 14.29

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091742.D
Report generated: Wed Sep 19 12:00:56 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091742.D
Date Acquired: 18 Sep 2001 10:33
Inst: HP_03 Operator ID: BTB
Name: 47348.16 *E03E2 *
Misc: *EPA*30.6G/5.0ML*33
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:42 2001 Quant Results File: XPCBI16.RES



OK 9-25-01 BM

Aroclor-1242 {5} #2 12.36min area: 44896 m

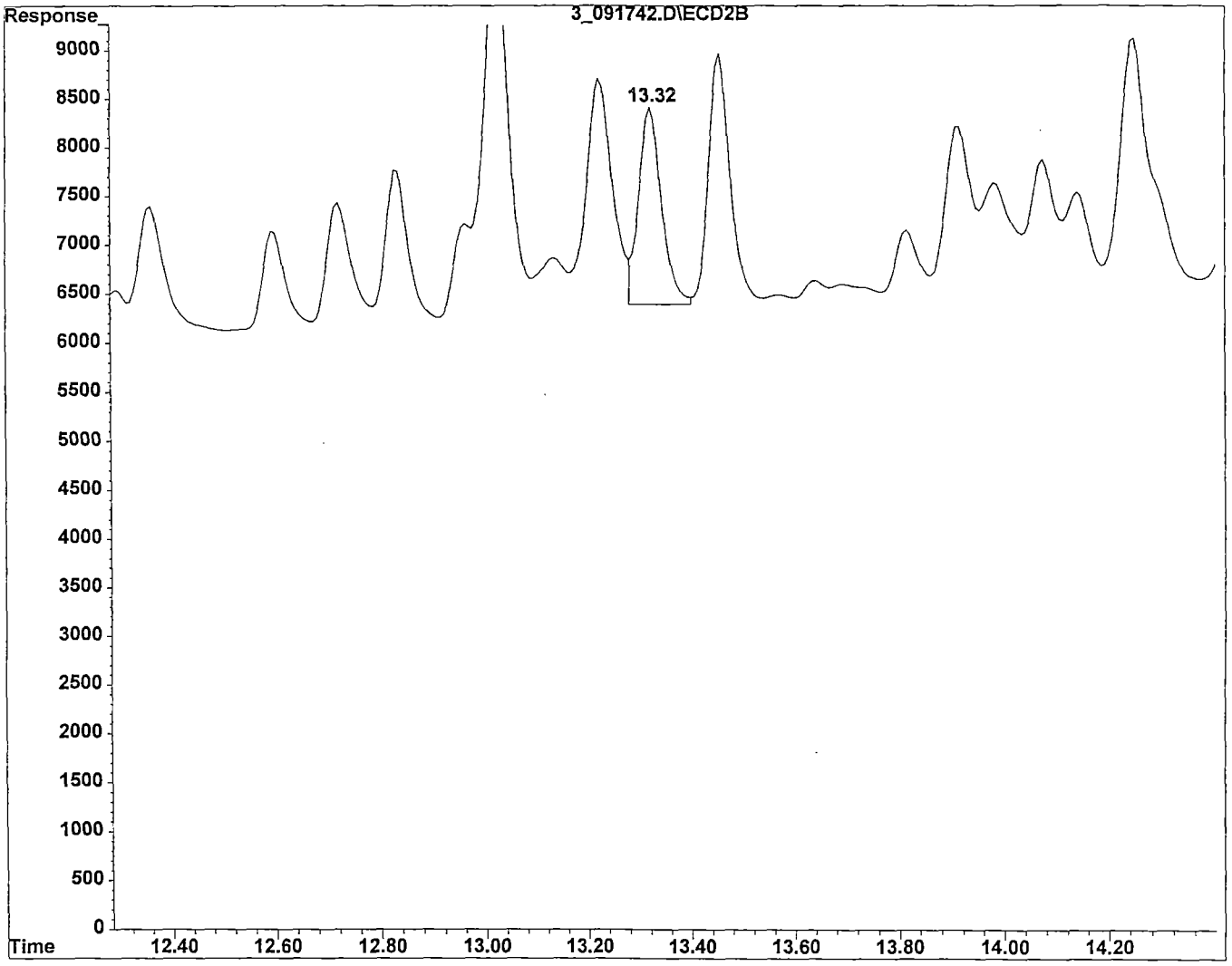
Integration Time Range: 12.32 - 12.48

BTB
091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091742.D
Report generated: Wed Sep 19 12:00:57 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091742.D
Date Acquired: 18 Sep 2001 10:33
Inst: HP_03 Operator ID: BTB
Name: 47348.16 *E03E2 *
Misc: *EPA*30.6G/5.0ML*33
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:42 2001 Quant Results File: XPCBI16.RES



OK 9-25-01

Aroclor-1260 #2 13.32min area: 61668 m

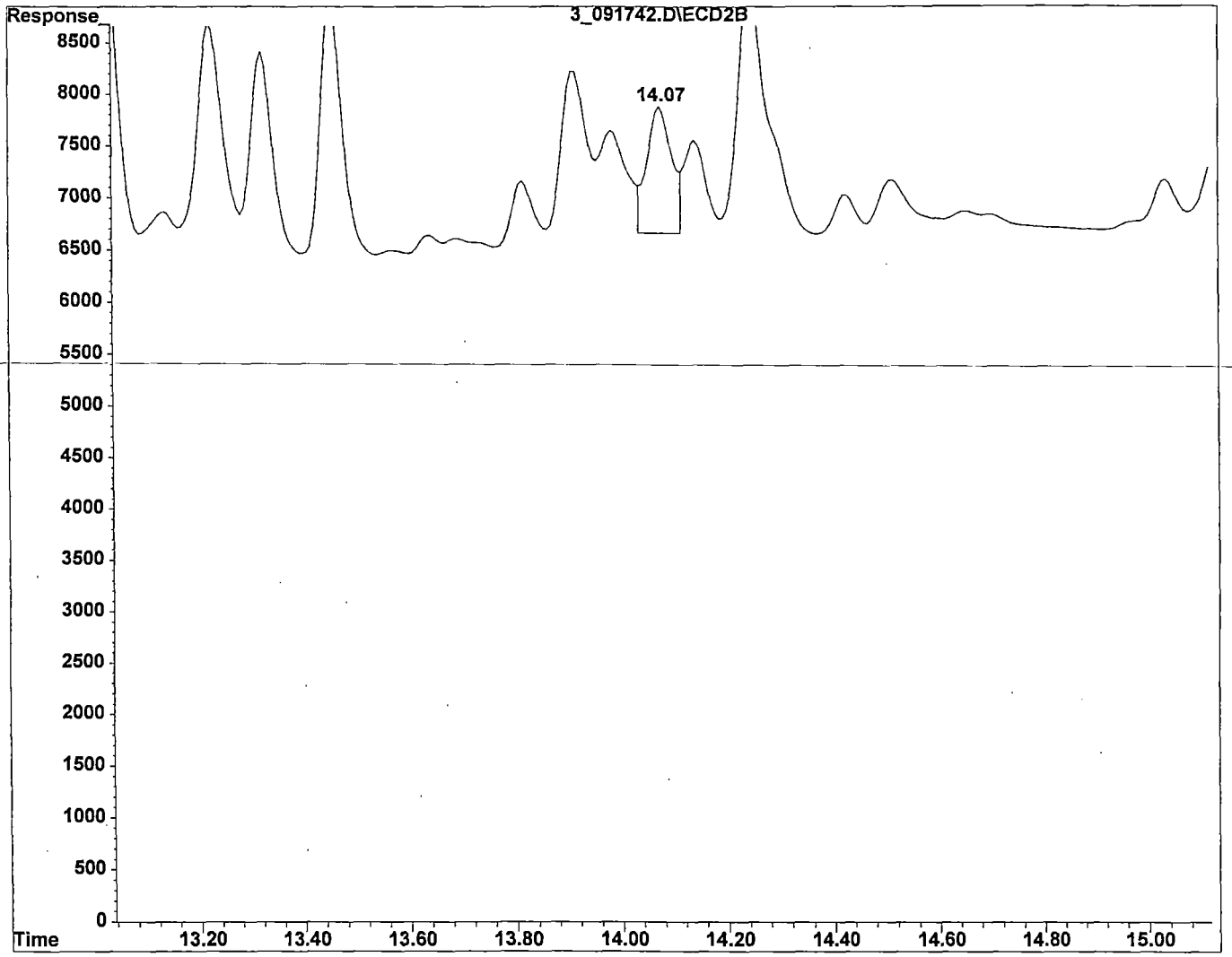
BTB 091901

Integration Time Range: 13.28 - 13.40

F:\HPCHEM\HP\3\DATA\09_17_01\3_091742.D
Report generated: Wed Sep 19 12:00:57 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091742.D
Date Acquired: 18 Sep 2001 10:33
Inst: HP_03 Operator ID: BTB
Name: 47348.16 *E03E2 *
Misc: *EPA*30.6G/5.0ML*33
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:42 2001 Quant Results File: XPCBI16.RES



OK 9-25-01 BA

Aroclor-1260 {2} #2 14.07min area: 40012 m

Integration Time Range: 14.04 - 14.12

BTB
091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091742.D
Report generated: Wed Sep 19 12:00:58 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E03E3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Matrix: (soil/water) SOIL Lab Sample ID: 47348.17

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

% Moisture: 19 decanted: (Y/N) __ Date Received: 08/20/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/23/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/18/01

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	40	UJ
11104-28-2	Aroclor-1221	40	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	200	J
12672-29-6	Aroclor-1248	40	UJ
11097-69-1	Aroclor-1254	82	PJ
11096-82-5	Aroclor-1260	22	J
Surrogate amount spiked		8.02	

304

JBS
10-11-01

FORM I PCB

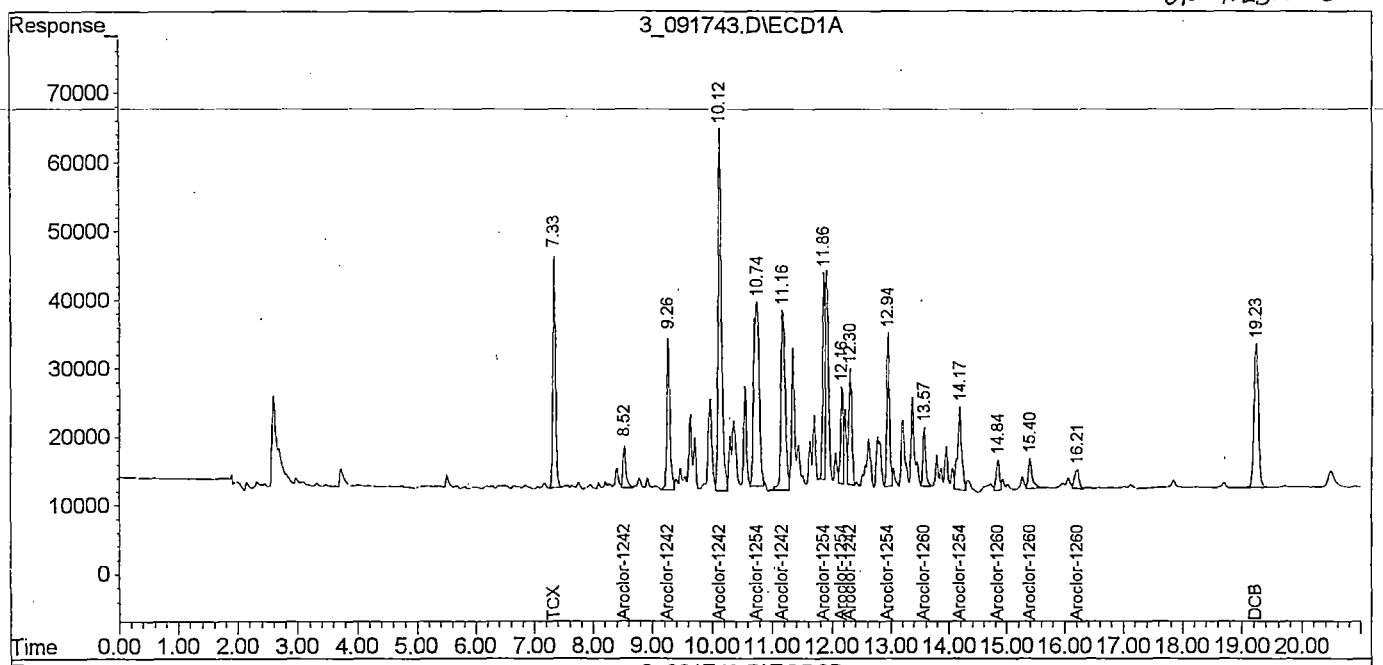
Chromatographic Report

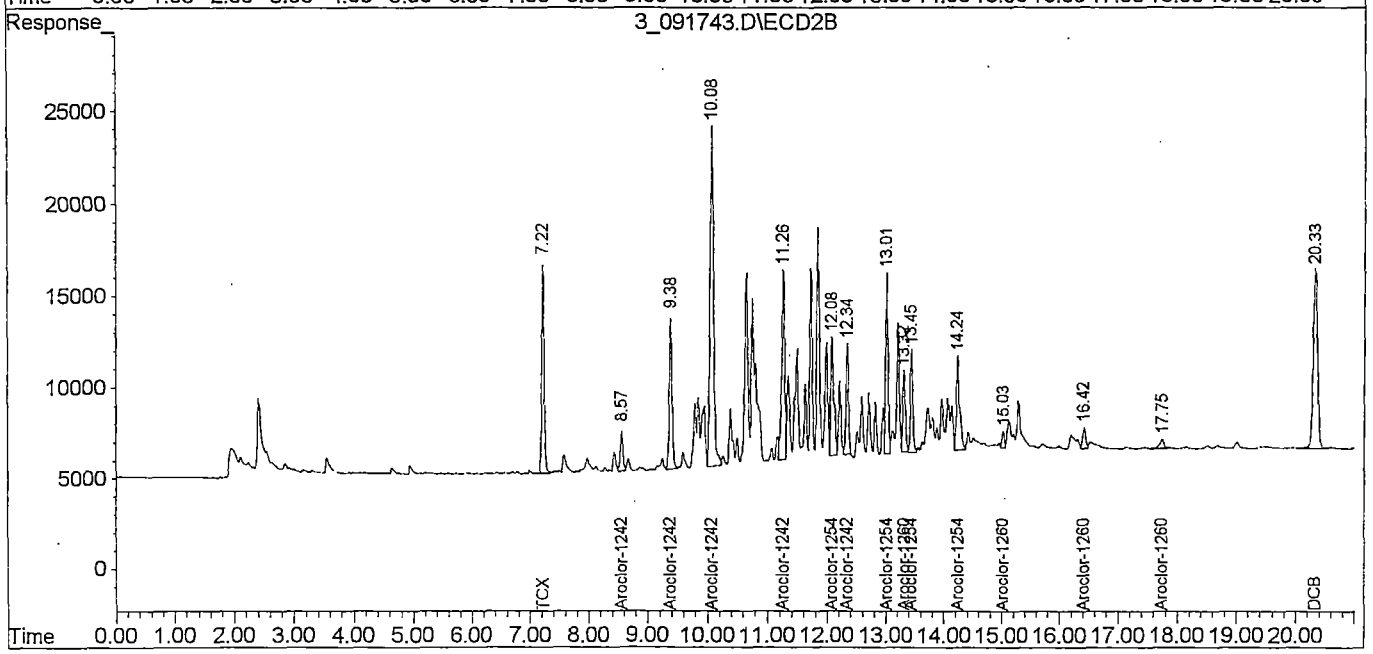
Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091743.D\ECD1A.CH Vial: 43
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091743.D\ECD2B.CH
Acq On : 18 Sep 2001 10:59 Operator: BTB
Sample : 47348.17 *E03E3 * Inst : HP_03
Misc : *EPA*30.8G/5.0ML*19 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 10:23 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

OK 9-25-01 ED





Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091743.D\ECD1A.CH Vial: 43
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091743.D\ECD2B.CH
Acq On : 18 Sep 2001 10:59 Operator: BTB
Sample : 47348.17 *E03E3 * Inst : HP_03
Misc : *EPA*30.8G/5.0ML*19 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 10:23 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

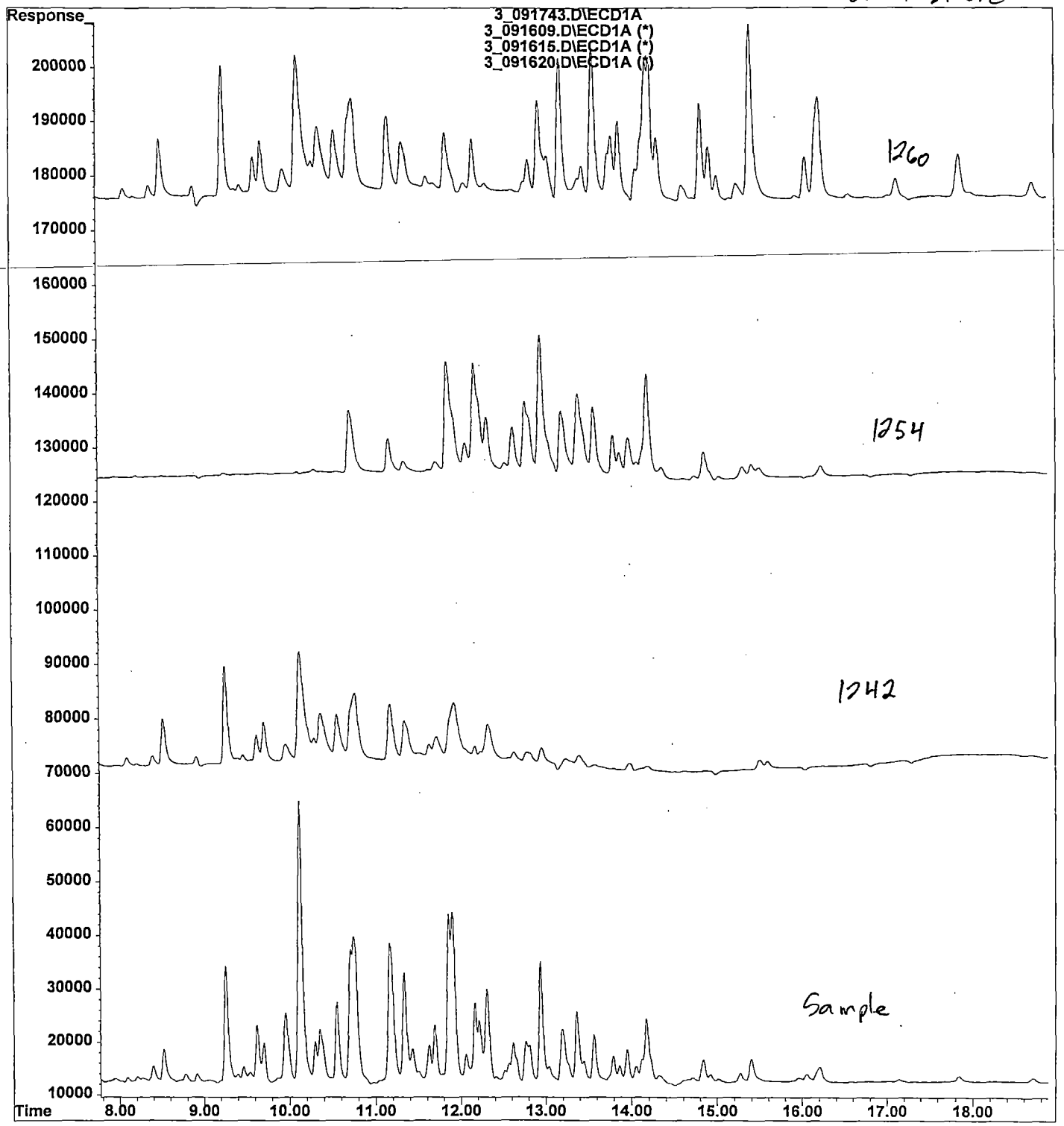
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	1065466	320326	7.877	7.922
	Spiked Amount 8.017			Recovery	=	98.26%	98.82%
22)	S DCB	19.23	20.33	1079616	511156	7.692	8.361
	Spiked Amount 8.017			Recovery	=	✓95.95%	✓104.30%
	Target Compounds:						
7)	L4 Aroclor-1242	8.53	8.57	223641	69890	79.2	88.6
8)	L4 Aroclor-1242 {2}	9.26	9.39	775102	269369	157.5	157.2
9)	L4 Aroclor-1242 {3}	10.12	10.08	2040494	772667	224.8	9-25-01 DH 234.2
10)	L4 Aroclor-1242 {4}	11.17	11.27	1240408	358200	311.4m	331.8
11)	L4 Aroclor-1242 {5}	12.31	12.35	635685	176982	204.7	184.7
	Sum Aroclor-1242			4915330	1647108	977.6	996.5
	Average Aroclor-1242					195.528	199.298
12)	L6 Aroclor-1254	10.74	0.00	1706724	0	338.2m	N.D. d #
13)	L6 Aroclor-1254 {2}	11.85	12.08	848216	247729	90.7m	90.5
14)	L6 Aroclor-1254 {3}	12.16	13.02	406588	298482	47.6	81.4 #
15)	L6 Aroclor-1254 {4}	12.94	13.45	700239	159231	71.1	78.6
16)	L6 Aroclor-1254 {5}	14.18	14.24	609539	206790	76.4	76.3
	Sum Aroclor-1254			4271305	912232	624.1	326.7
	Average Aroclor-1254					124.814	81.685
17)	L7 Aroclor-1260	0.00	13.32	0	137916	N.D. d	43.9m #
18)	L7 Aroclor-1260 {2}	13.57	0.00	282356	0	34.8m	N.D. d #
19)	L7 Aroclor-1260 {3}	14.84	15.03	177544	29006	34.3	10.8 #
20)	L7 Aroclor-1260 {4}	15.40	16.42	202878	42793	17.4	15.5
21)	L7 Aroclor-1260 {5}	16.21	17.75	152451	31084	17.2	16.0
	Sum Aroclor-1260			815229	240799	41.6	34.5
	Average Aroclor-1260					25.916	21.540

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

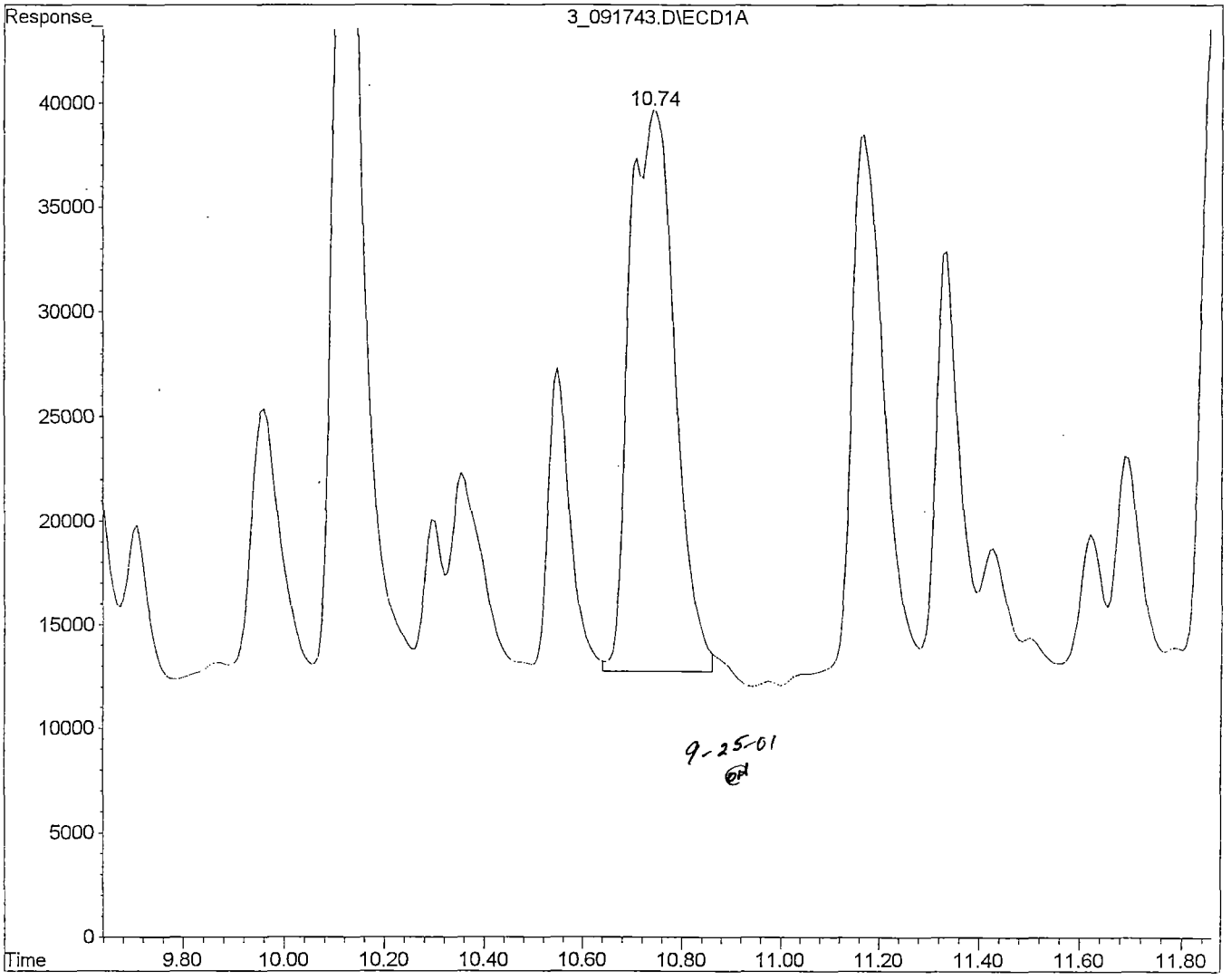
File : F:\HPCHEM\HP\3\DATA\09_17_01\3_091743.D
Operator : BTB
Acquired : 18 Sep 2001 10:59 using AcqMethod OLM03.M
Instrument : HP_03
Sample Name: 47348.17 *E03E3 *
Misc Info : *EPA*30.8G/5.0ML*19
Vial Number: 43

OK 9-21-01 BA



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091743.D
Date Acquired: 18 Sep 2001 10:59
Inst: HP_03 Operator ID: BTB
Name: 47348.17 *E03E3 *
Misc: *EPA*30.8G/5.0ML*19
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 10:23 2001 Quant Results File: XPCBI16.RES



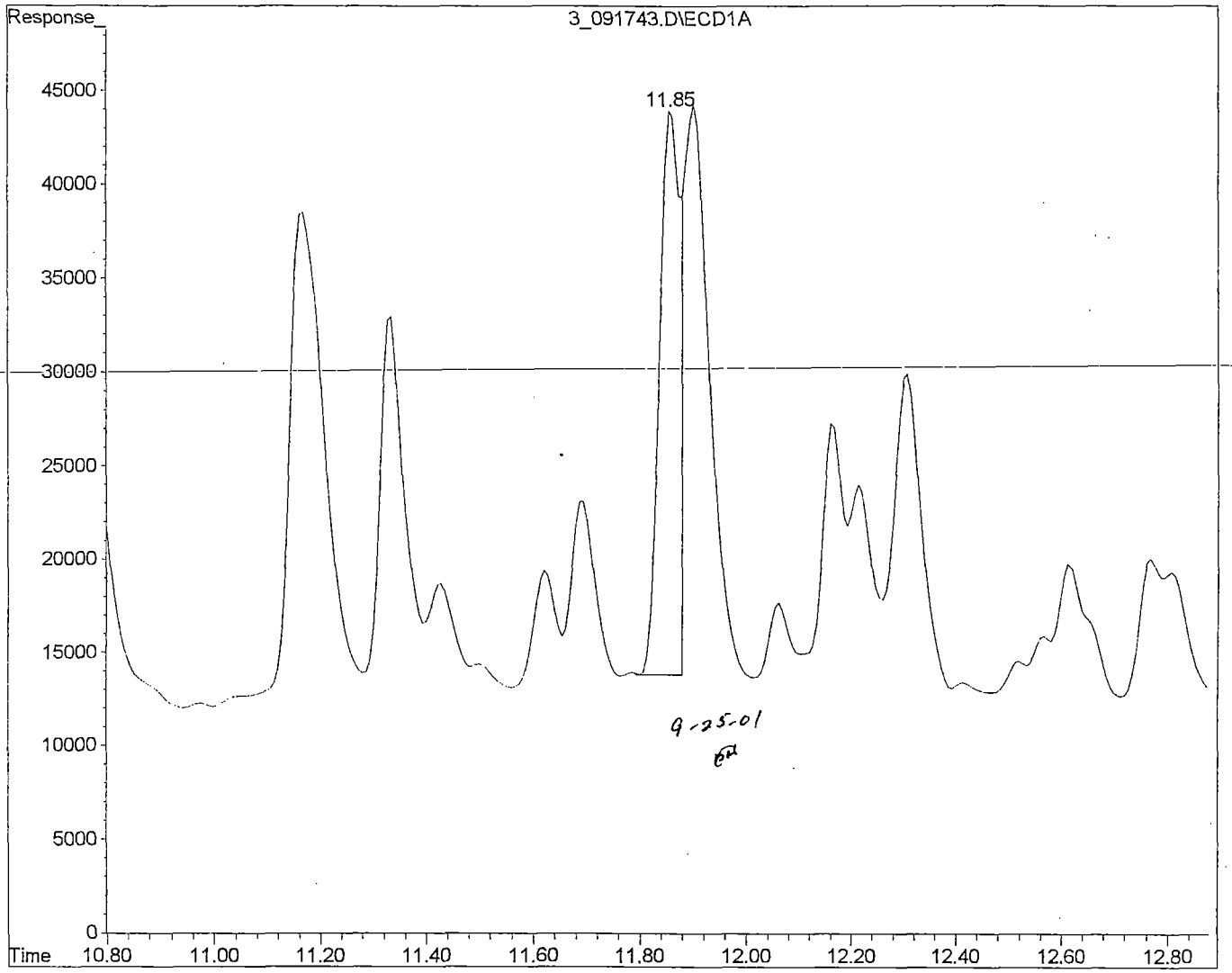
Aroclor-1254 10.74min area: 1706724 m

Integration Time Range: 10.64 - 10.86

F:\HPCHEM\HP\3\DATA\09_17_01\3_091743.D
Report generated: Tue Sep 25 10:23:53 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091743.D
Date Acquired: 18 Sep 2001 10:59
Inst: HP_03 Operator ID: BTB
Name: 47348.17 *E03E3 *
Misc: *EPA*30.8G/5.0ML*19
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 10:23 2001 Quant Results File: XPCBI16.RES



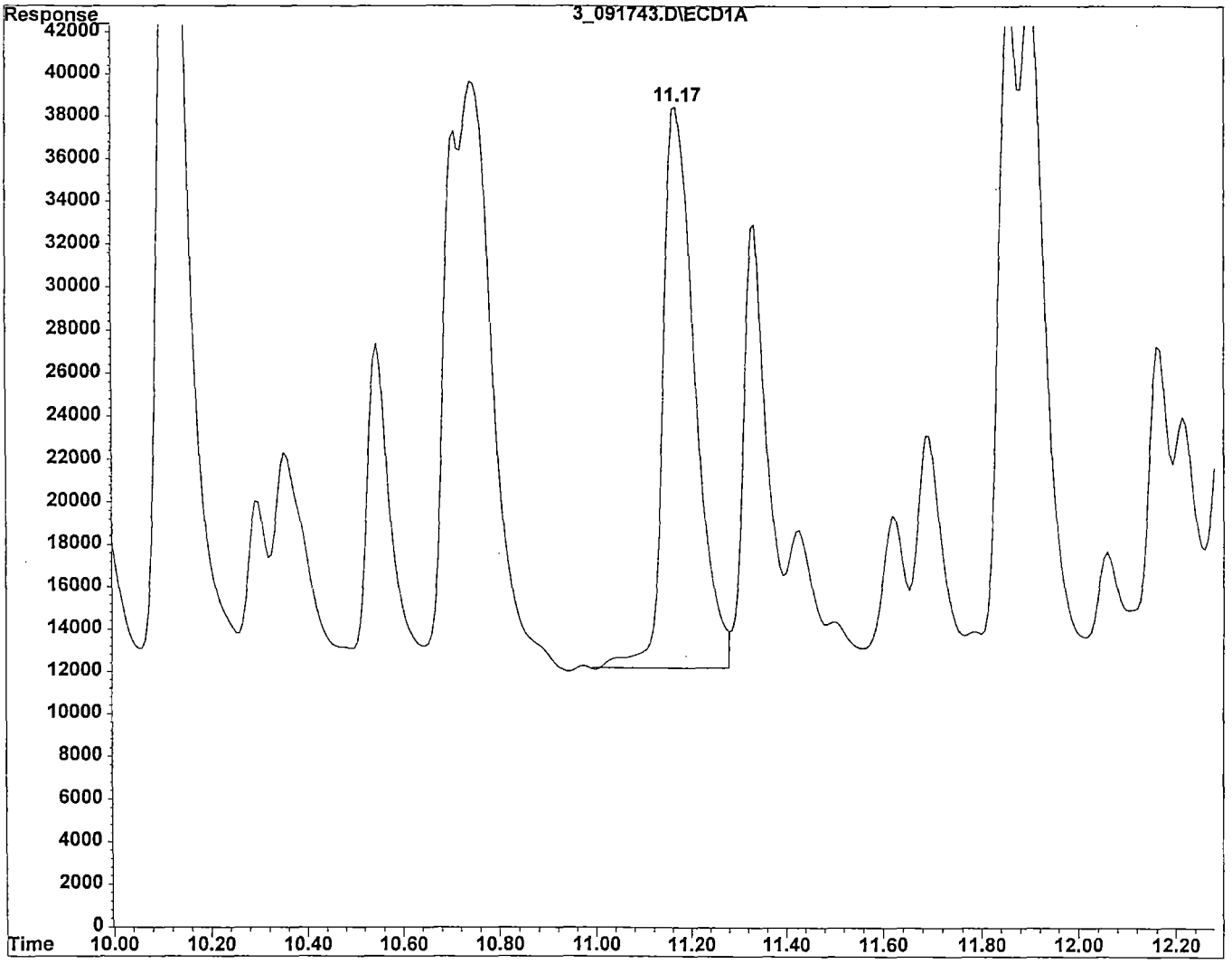
Aroclor-1254 {2} 11.85min area: 848216 m

Integration Time Range: 11.80 - 11.88

F:\HPCHEM\HP\3\DATA\09_17_01\3_091743.D
Report generated: Tue Sep 25 10:23:53 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091743.D
Date Acquired: 18 Sep 2001 10:59
Inst: HP_03 Operator ID: BTB
Name: 47348.17 *E03E3 *
Misc: *EPA*30.8G/5.0ML*19
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:45 2001 Quant Results File: XPCBI16.RES



OK 9-21-01

Aroclor-1242 {4} 11.17min area: 1240408 m

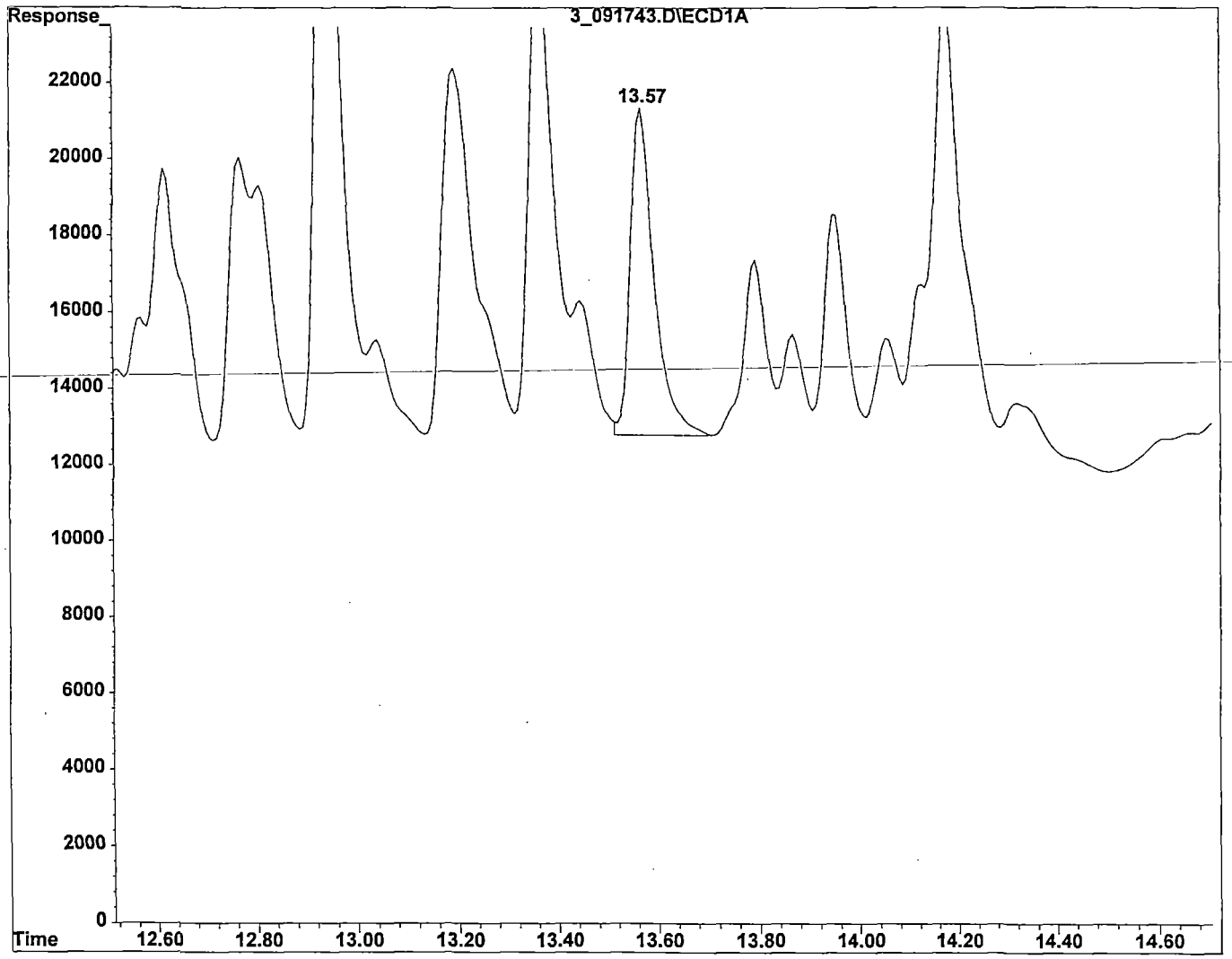
Integration Time Range: 11.00 - 11.28

BTB
091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091743.D
Report generated: Wed Sep 19 12:00:59 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091743.D
Date Acquired: 18 Sep 2001 10:59
Inst: HP_03 Operator ID: BTB
Name: 47348.17 *E03E3 *
Misc: *EPA*30.8G/5.0ML*19
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:45 2001 Quant Results File: XPCBI16.RES



OK 9-21-01

Aroclor-1260 {2} 13.57min area: 282356 m

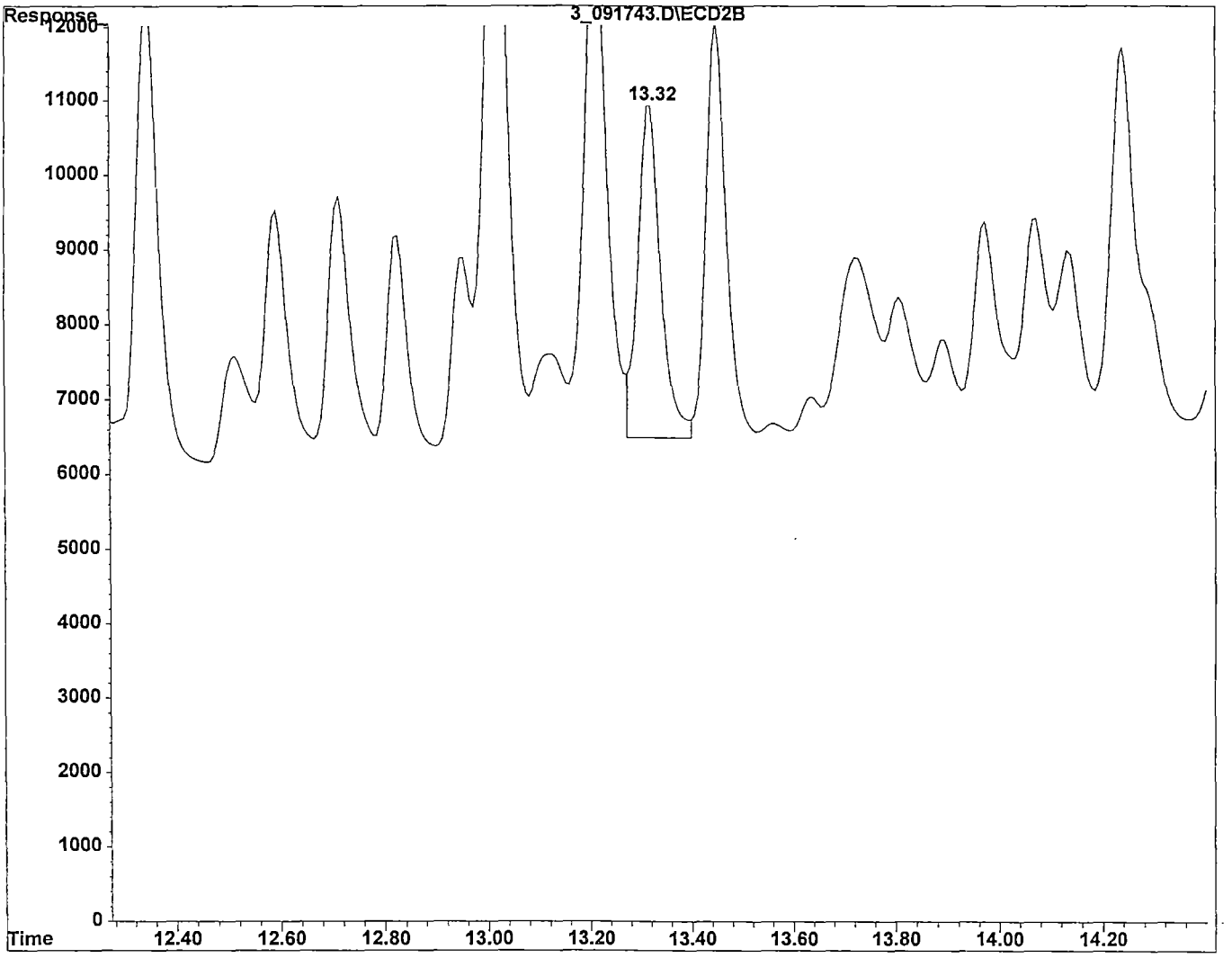
Integration Time Range: 13.51 - 13.70

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091743.D
Report generated: Wed Sep 19 12:01:00 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091743.D
Date Acquired: 18 Sep 2001 10:59
Inst: HP_03 Operator ID: BTB
Name: 47348.17 *E03E3 *
Misc: *EPA*30.8G/5.0ML*19
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:45 2001 Quant Results File: XPCBI16.RES



OK 9-21-01

Aroclor-1260 #2 13.32min area: 137916 m

BTB 091901

Integration Time Range: 13.27 - 13.40

F:\HPCHEM\HP\3\DATA\09_17_01\3_091743.D
Report generated: Wed Sep 19 12:01:01 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E03E4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Matrix: (soil/water) SOIL Lab Sample ID: 47348.18

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

% Moisture: 62 decanted: (Y/N) __ Date Received: 08/20/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/23/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/18/01

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	85	UJ
11104-28-2	Aroclor-1221	85	U
11141-16-5	Aroclor-1232	85	U
53469-21-9	Aroclor-1242	24	J
12672-29-6	Aroclor-1248	85	UJ
11097-69-1	Aroclor-1254	22	J
11096-82-5	Aroclor-1260	85	UJ
Surrogate amount spiked		17.20	

46

TBS
10-11-01

FORM I PCB

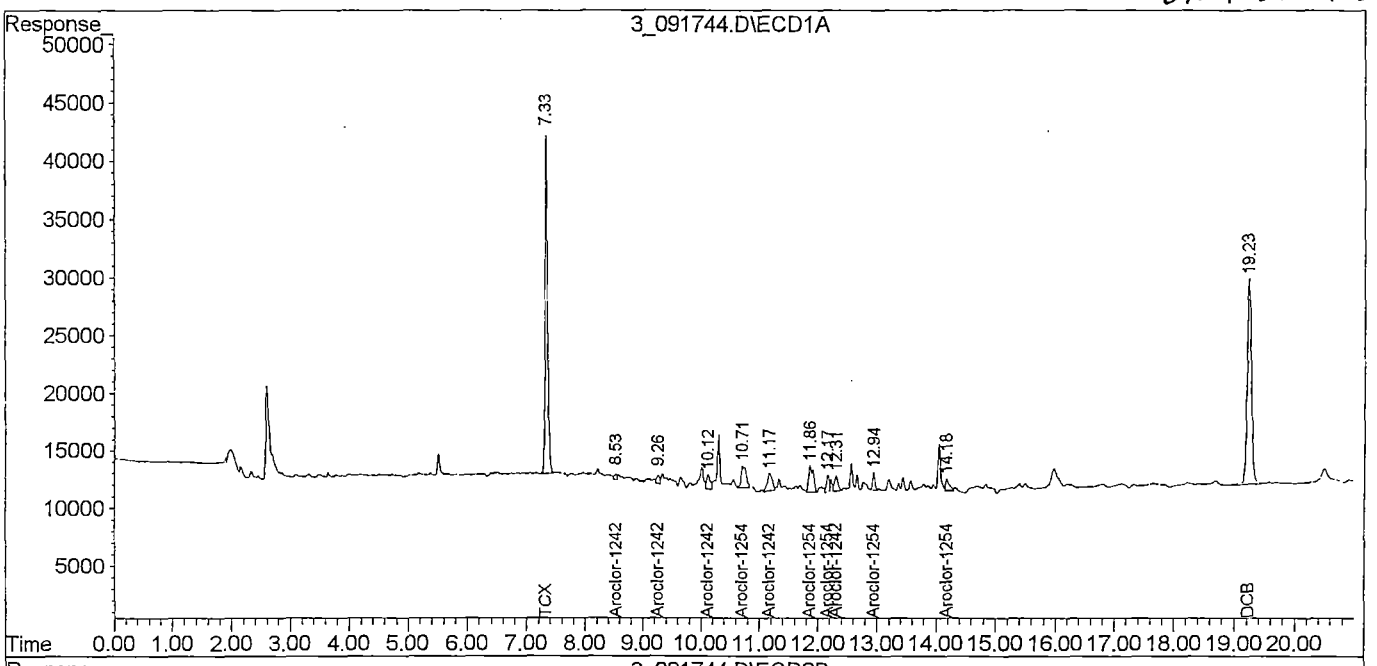
Chromatographic Report

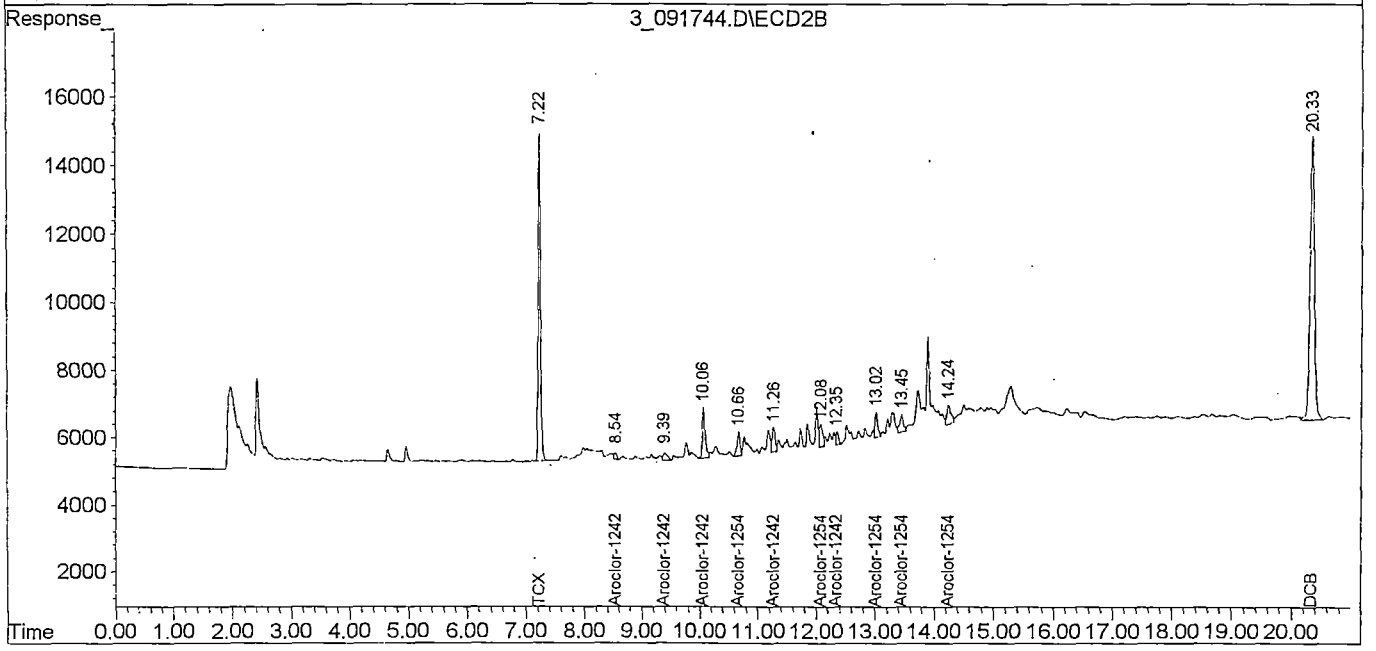
Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091744.D\ECD1A.CH Vial: 44
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091744.D\ECD2B.CH
Acq On : 18 Sep 2001 11:25 Operator: BTB
Sample : 47348.18, *E03E4 * Inst : HP_03
Misc : *EPA*30.6G/5.0ML*62 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 24 16:04 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

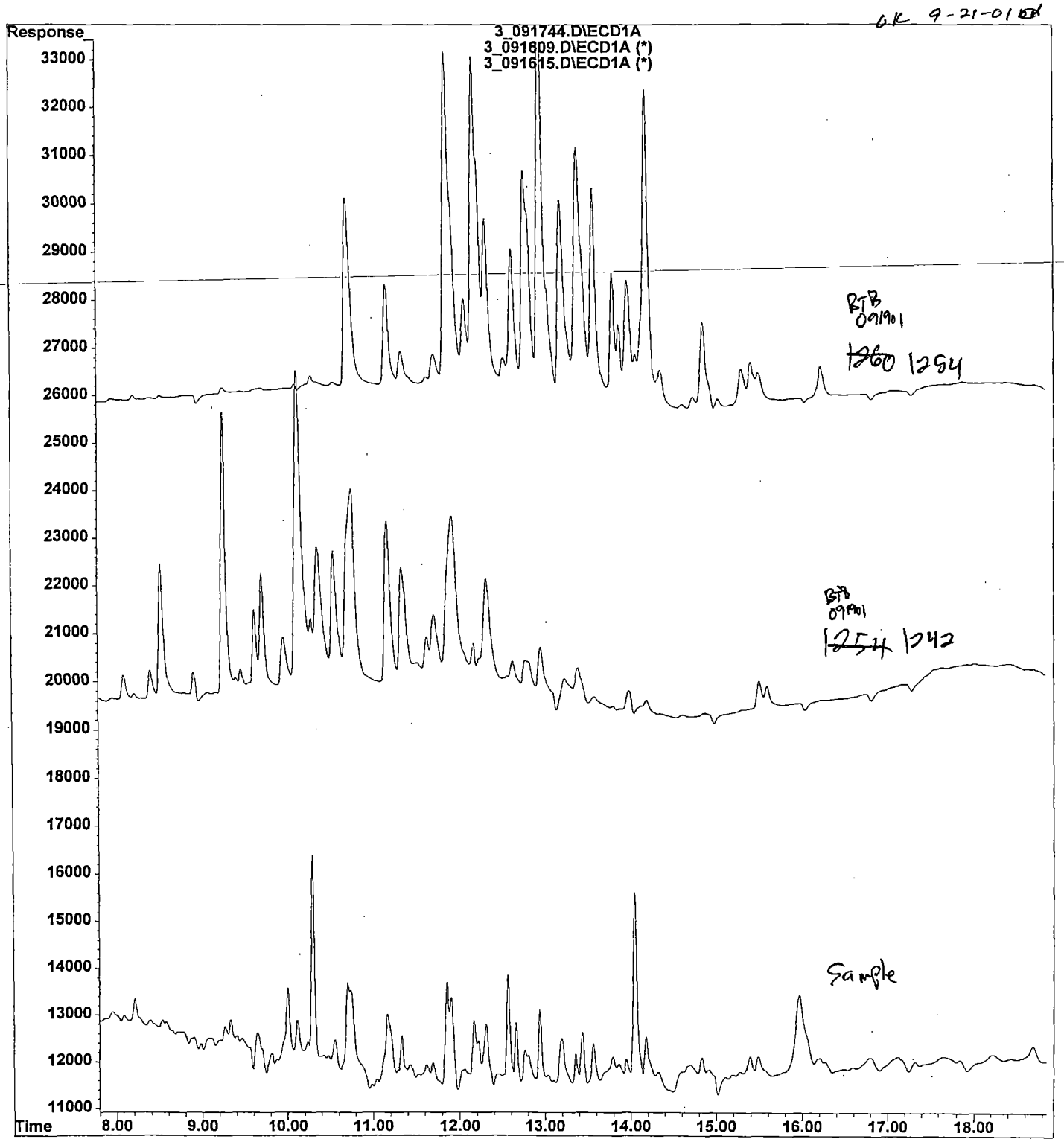
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

OK 9-25-01 GH





File : F:\HPCHEM\HP\3\DATA\09_17_01\3_091744.D
Operator : BTB
Acquired : 18 Sep 2001 11:25 using AcqMethod OLM03.M
Instrument : HP_03
Sample Name: 47348.18 *E03E4 *
Misc Info : *EPA*30.6G/5.0ML*62
Vial Number: 44



Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091744.D\ECD1A.CH Vial: 44
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091744.D\ECD2B.CH
Acq On : 18 Sep 2001 11:25 Operator: BTB
Sample : 47348.18 *E03E4 * Inst : HP_03
Misc : *EPA*30.6G/5.0ML*62 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 24 16:04 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

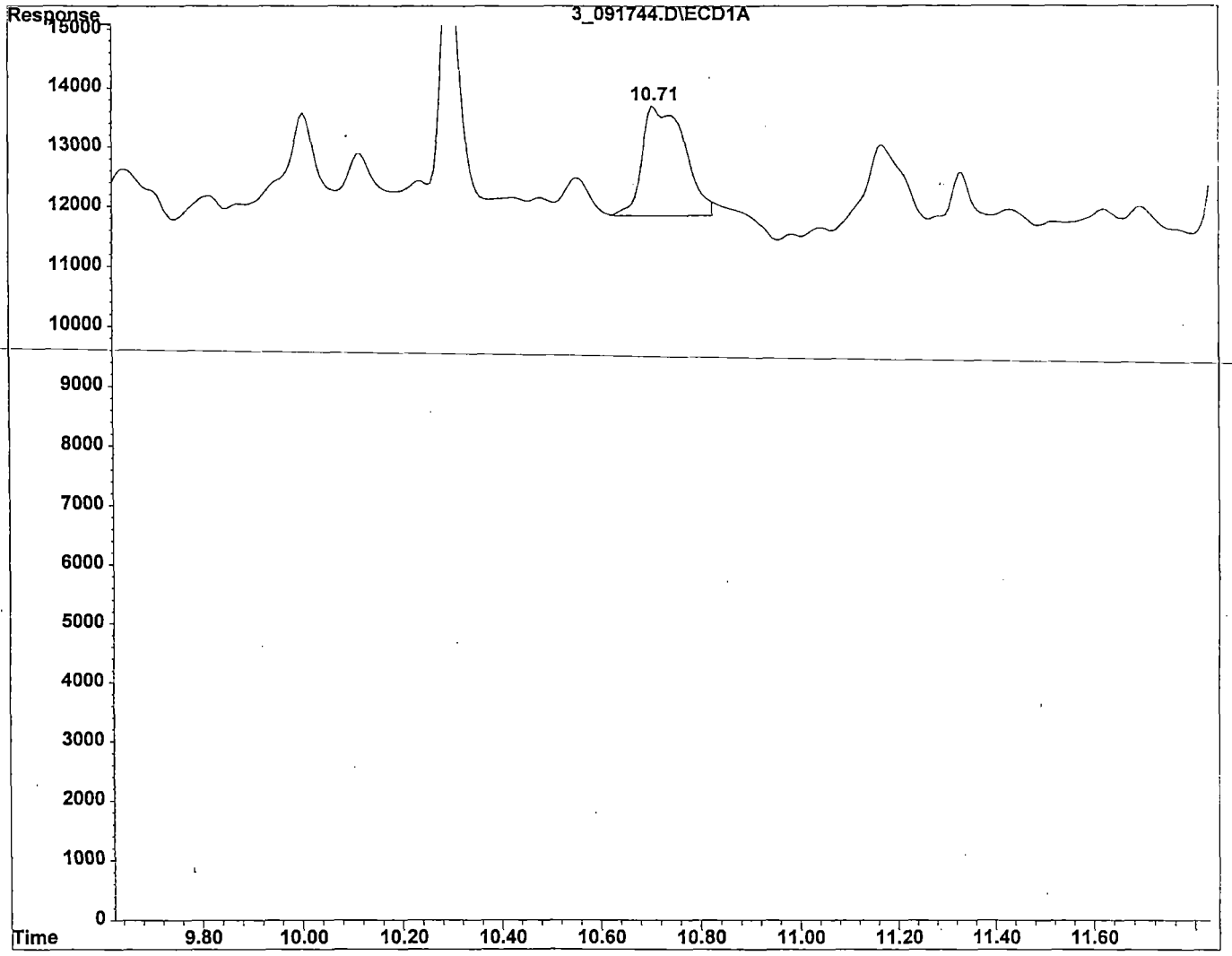
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.33	7.22	906212	263079	14.4	14.0	
	Spiked Amount 17.200			Recovery	=	83.72%	81.40%	
22)	S DCB	19.23	20.34	917195	439829	14.0	15.4	
	Spiked Amount 17.200			Recovery	=	✓81.40%	✓89.54%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.53	8.54	15480	6896	11.8	18.7	#
8)	L4 Aroclor-1242 {2}	9.26	9.39	22920	11269	9.993	14.1	#
9)	L4 Aroclor-1242 {3}	10.12	10.06	57249	50744	13.5	33.0	#
10)	L4 Aroclor-1242 {4}	11.17	11.27	86677	26085	46.7	51.8	
11)	L4 Aroclor-1242 {5}	12.31	12.35	54159	12365	37.4	27.7	#
	Sum Aroclor-1242			236486	107359	119.4	145.4	
	Average Aroclor-1242					23.879	29.077	
12)	L6 Aroclor-1254	10.71	10.66	109288	26551	46.5m BTB 092401	46.9	
13)	L6 Aroclor-1254 {2}	11.86	12.08	129496	24811	29.7m	19.4	#
14)	L6 Aroclor-1254 {3}	12.17	13.01	44930	24616	11.3	14.4m	# BTB 092401
15)	L6 Aroclor-1254 {4}	12.94	13.45	42716	22568	9.306	23.9m	#
16)	L6 Aroclor-1254 {5}	14.18	14.24	44776	28976	12.0m	22.9m	#
	Sum Aroclor-1254			371206	127522	108.8	127.5	
	Average Aroclor-1254					21.764	25.506	

(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\3\DATA\09_17_01\3_091744.D
Date Acquired: 18 Sep 2001 11:25
Inst: HP_03 Operator ID: BTB
Name: 47348.18 *E03E4 *
Misc: *EPA*30.6G/5.0ML*62
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 24 16:04 2001 Quant Results File: XPCBI16.RES



OIC 9-25-01

Aroclor-1254 10.71min area: 109288 m

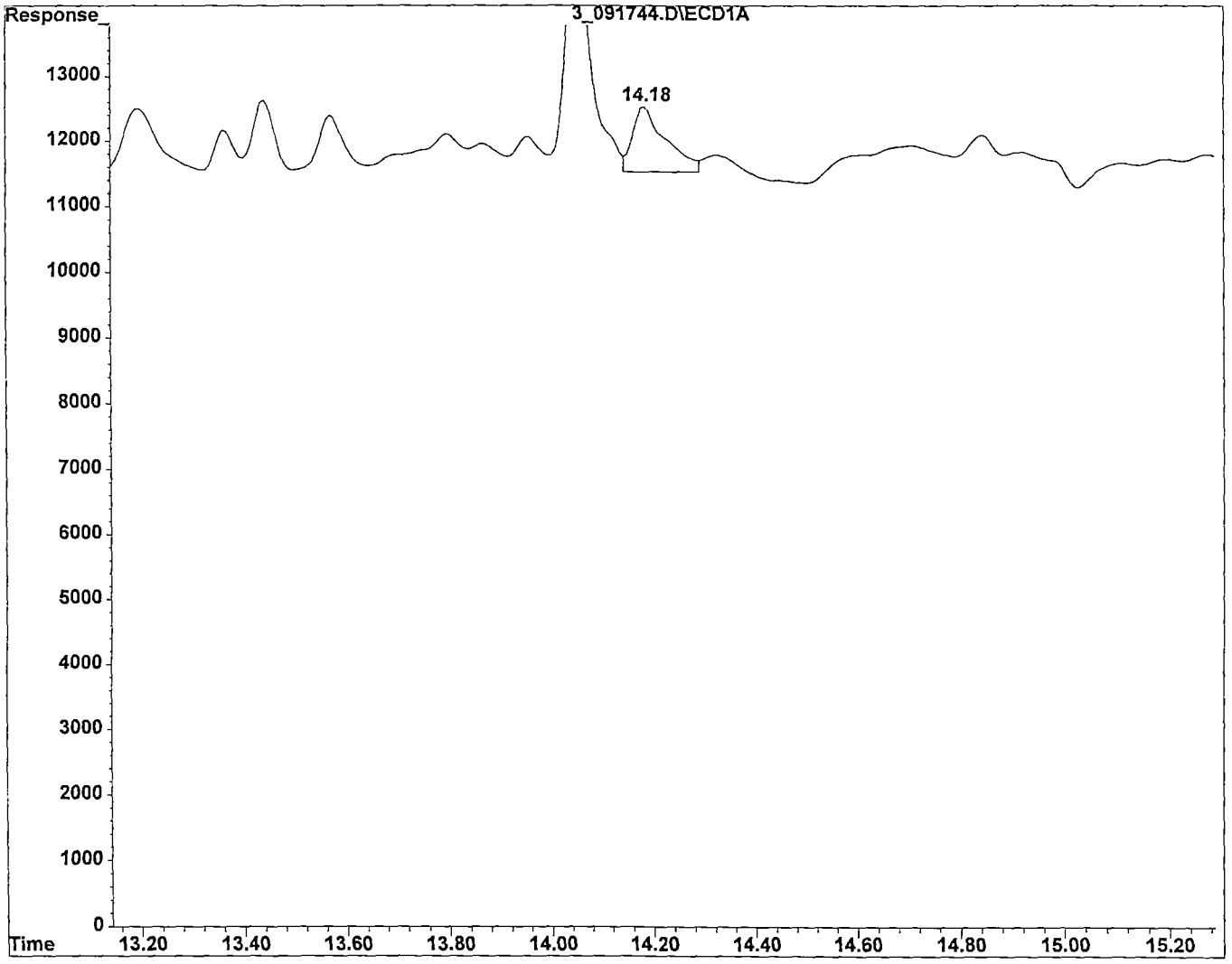
BTB 092401

Integration Time Range: 10.62 - 10.83

F:\HPCHEM\HP\3\DATA\09_17_01\3_091744.D
Report generated: Mon Sep 24 16:13:22 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091744.D
Date Acquired: 18 Sep 2001 11:25
Inst: HP_03 Operator ID: BTB
Name: 47348.18 *E03E4 *
Misc: *EPA*30.6G/5.0ML*62
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:48 2001 Quant Results File: XPCBI16.RES



OK 9-21-01

Aroclor-1254 {5} 14.18min area: 44776 m

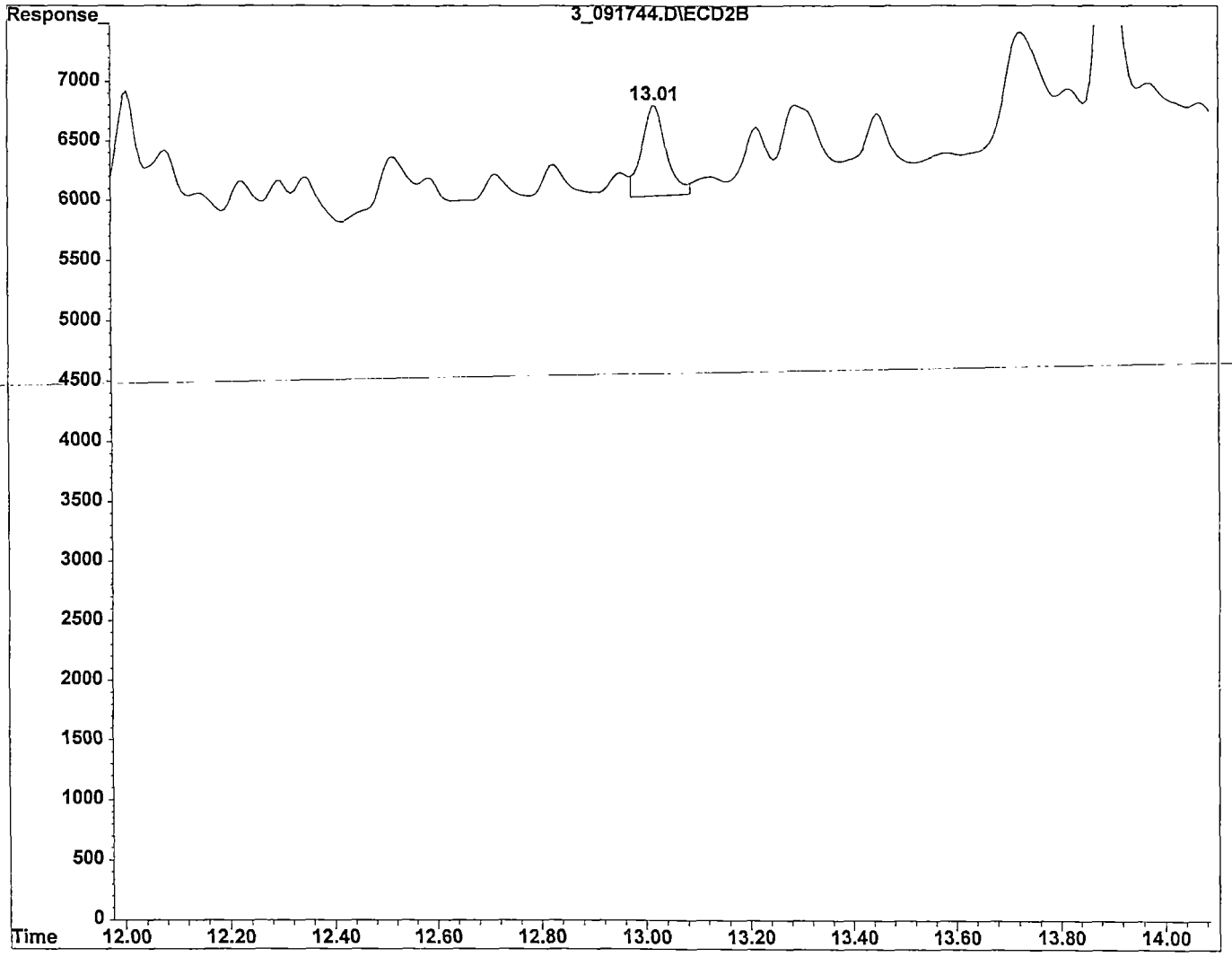
Integration Time Range: 14.14 - 14.29

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091744.D
Report generated: Wed Sep 19 12:01:02 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091744.D
Date Acquired: 18 Sep 2001 11:25
Inst: HP_03 Operator ID: BTB
Name: 47348.18 *E03E4 *
Misc: *EPA*30.6G/5.0ML*62
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:48 2001 Quant Results File: XPCBI16.RES



OK 9-21-01 BTB

Aroclor-1254 {3} #2 13.01min area: 24616 m

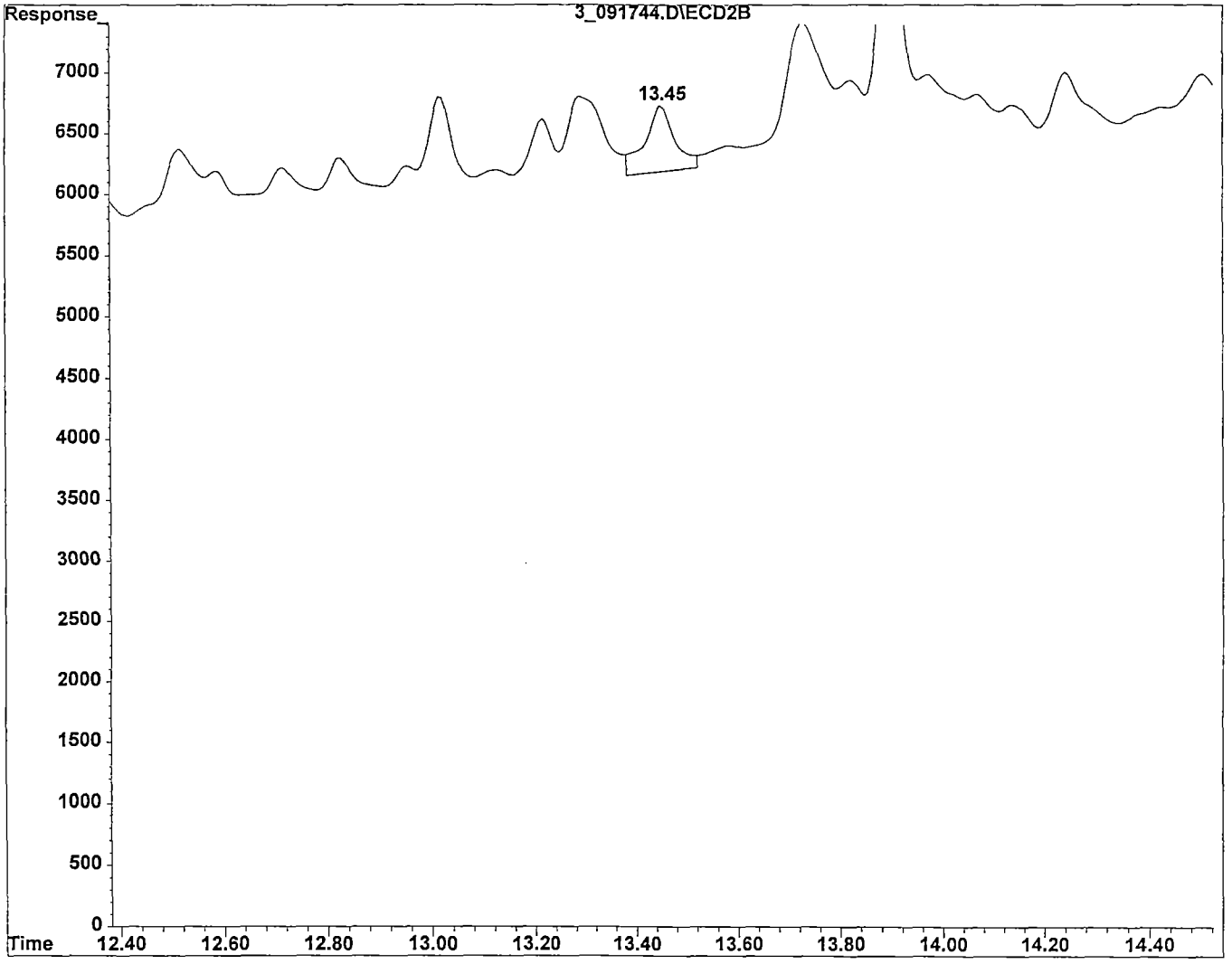
Integration Time Range: 12.98 - 13.09

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091744.D
Report generated: Wed Sep 19 12:01:03 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091744.D
Date Acquired: 18 Sep 2001 11:25
Inst: HP_03 Operator ID: BTB
Name: 47348.18 *E03E4 *
Misc: *EPA*30.6G/5.0ML*62
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:48 2001 Quant Results File: XPCBI16.RES



OK 9-21-01 BH

Aroclor-1254 {4} #2 13.45min area: 22568 m

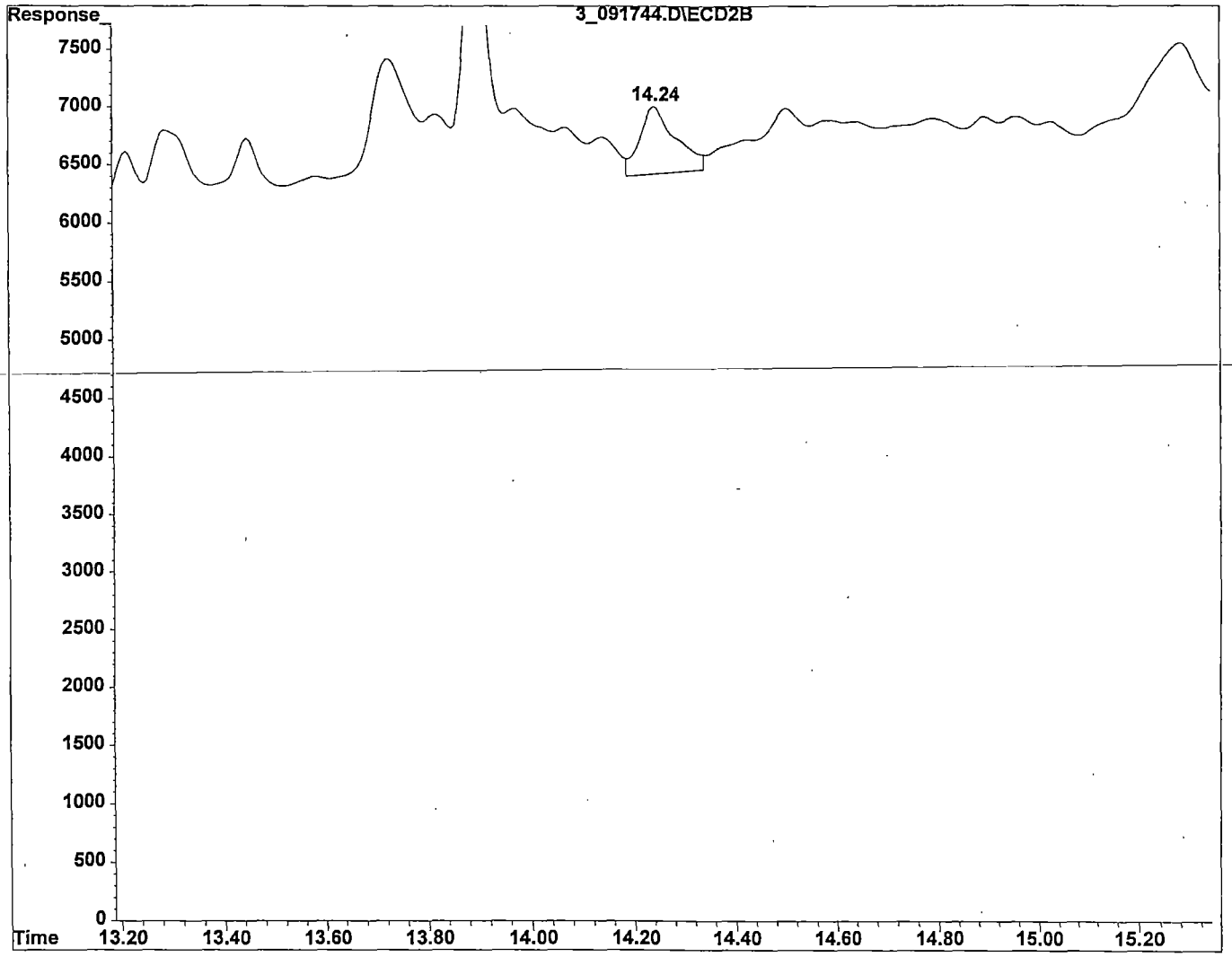
Integration Time Range: 13.38 - 13.52

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091744.D
Report generated: Wed Sep 19 12:01:04 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091744.D
Date Acquired: 18 Sep 2001 11:25
Inst: HP_03 Operator ID: BTB
Name: 47348.18 *E03E4 *
Misc: *EPA*30.6G/5.0ML*62
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 11:48 2001 Quant Results File: XPCBI16.RES



OK 9-21-01 BR

Aroclor-1254 {5} #2 14.24min area: 28976 m

Integration Time Range: 14.19 - 14.34

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091744.D
Report generated: Wed Sep 19 12:01:04 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E03E5

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Matrix: (soil/water) SOIL Lab Sample ID: 47348.19

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

% Moisture: 80 decanted: (Y/N) __ Date Received: 08/20/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/23/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/18/01

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	160	U
11104-28-2	Aroclor-1221	160	U
11141-16-5	Aroclor-1232	160	U
53469-21-9	Aroclor-1242	160	U
12672-29-6	Aroclor-1248	160	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U
Surrogate amount spiked		33.00	

TBS
10-11-01

UJ

FORM I PCB

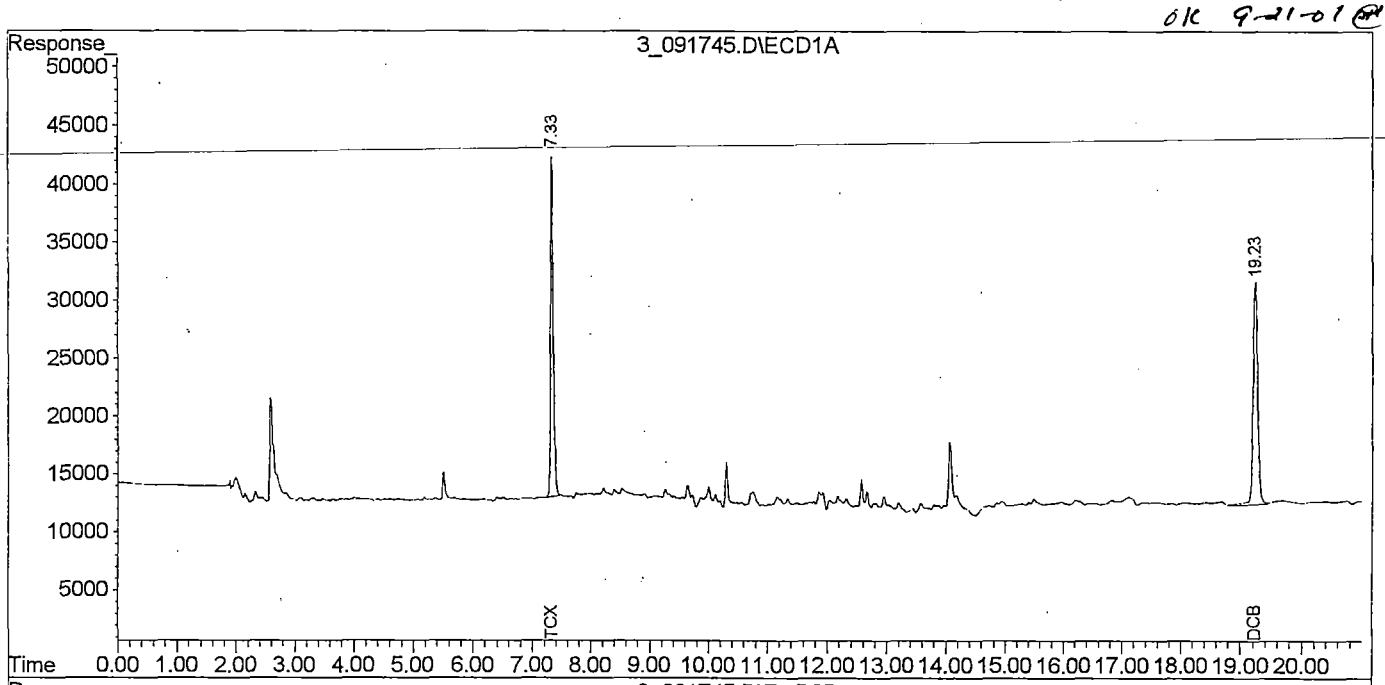
Chromatographic Report

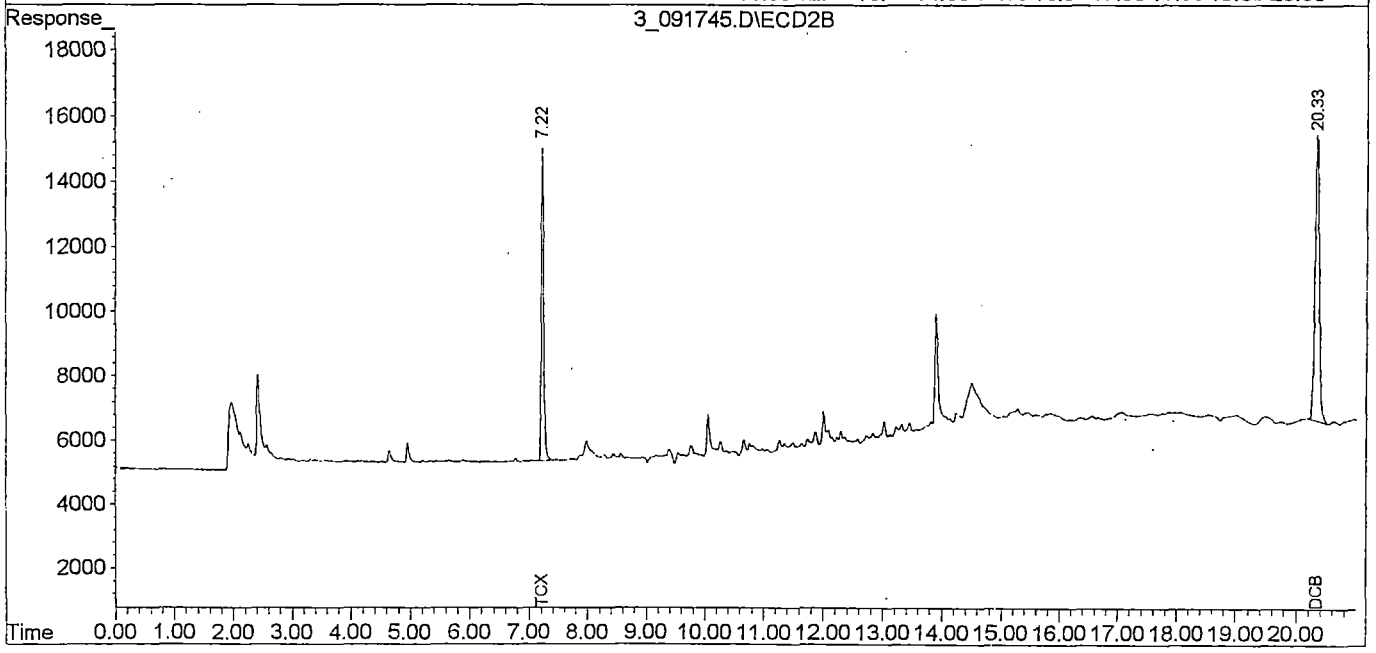
Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091745.D\ECD1A.CH Vial: 45
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091745.D\ECD2B.CH
Acq On : 18 Sep 2001 11:50 Operator: BTB
Sample : 47348.19 *E03E5 * Inst : HP_03
Misc : *EPA*30.3G/5.0ML*80 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 21 17:31 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

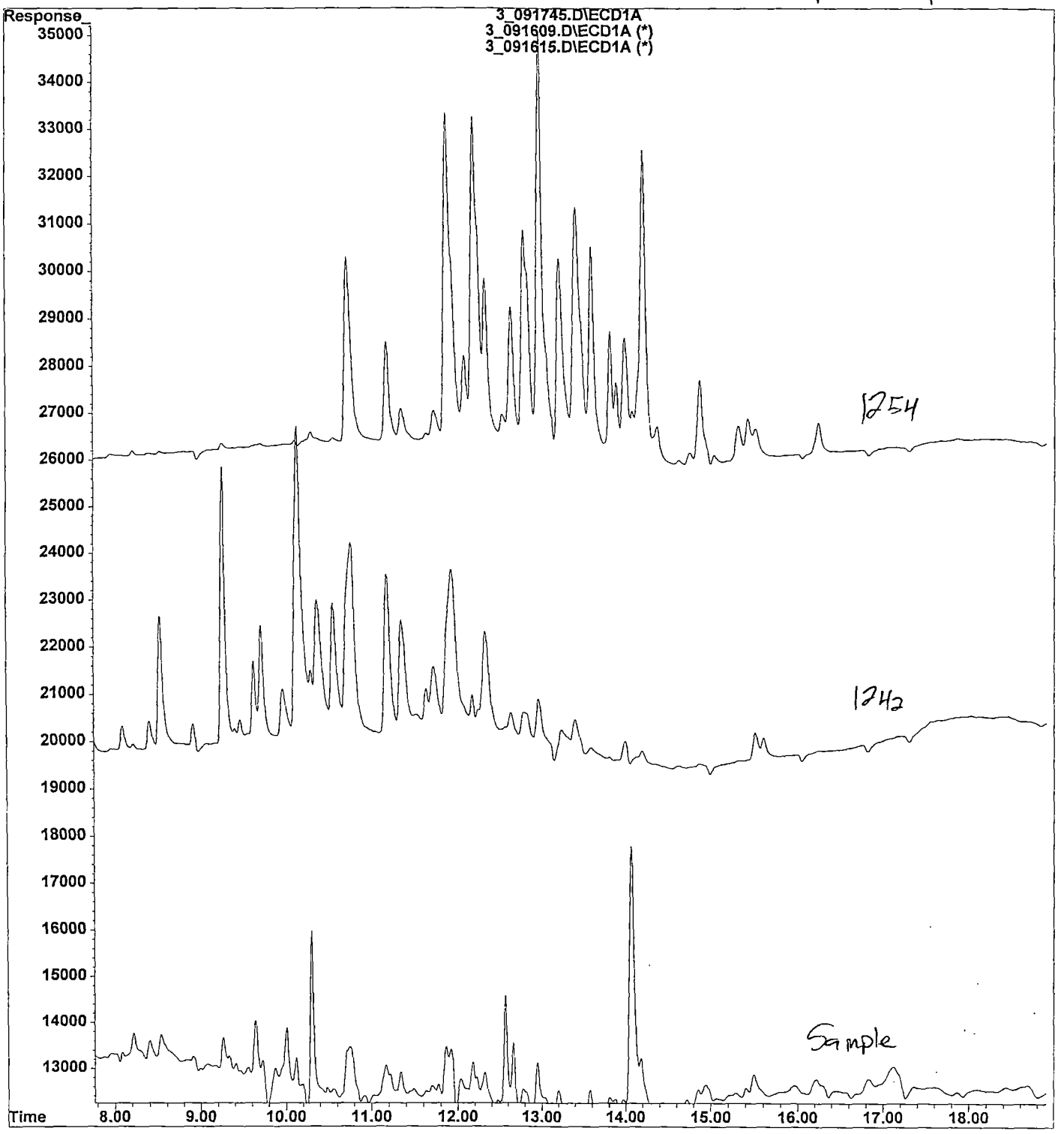
OK 9-21-01





File : F:\HPCHEM\HP\3\DATA\09_17_01\3_091745.D
Operator : BTB
Acquired : 18 Sep 2001 11:50 using AcqMethod OLM03.M
Instrument : HP_03
Sample Name: 47348.19 *E03E5 *
Misc Info : *EPA*30.3G/5.0ML*80
Vial Number: 45

No match 9-21-01



Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091745.D\ECD1A.CH Vial: 45
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091745.D\ECD2B.CH
Acq On : 18 Sep 2001 11:50 Operator: BTB
Sample : 47348.19 *E03E5 * Inst : HP_03
Misc : *EPA*30.3G/5.0ML*80 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 21 17:31 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	930079	276925	28.3	28.2
	Spiked Amount 33.003			Recovery	=	85.75%	85.45%
22)	S DCB	19.23	20.33	1004644	452259	29.5	30.5
	Spiked Amount 33.003			Recovery	=	89.39%	92.42%

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.

E03E6

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Matrix: (soil/water) SOIL Lab Sample ID: 47348.20

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

% Moisture: 62 decanted: (Y/N) __ Date Received: 08/20/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/23/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/18/01

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	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	

TBS
10-11-01

WJ

FORM I PCB

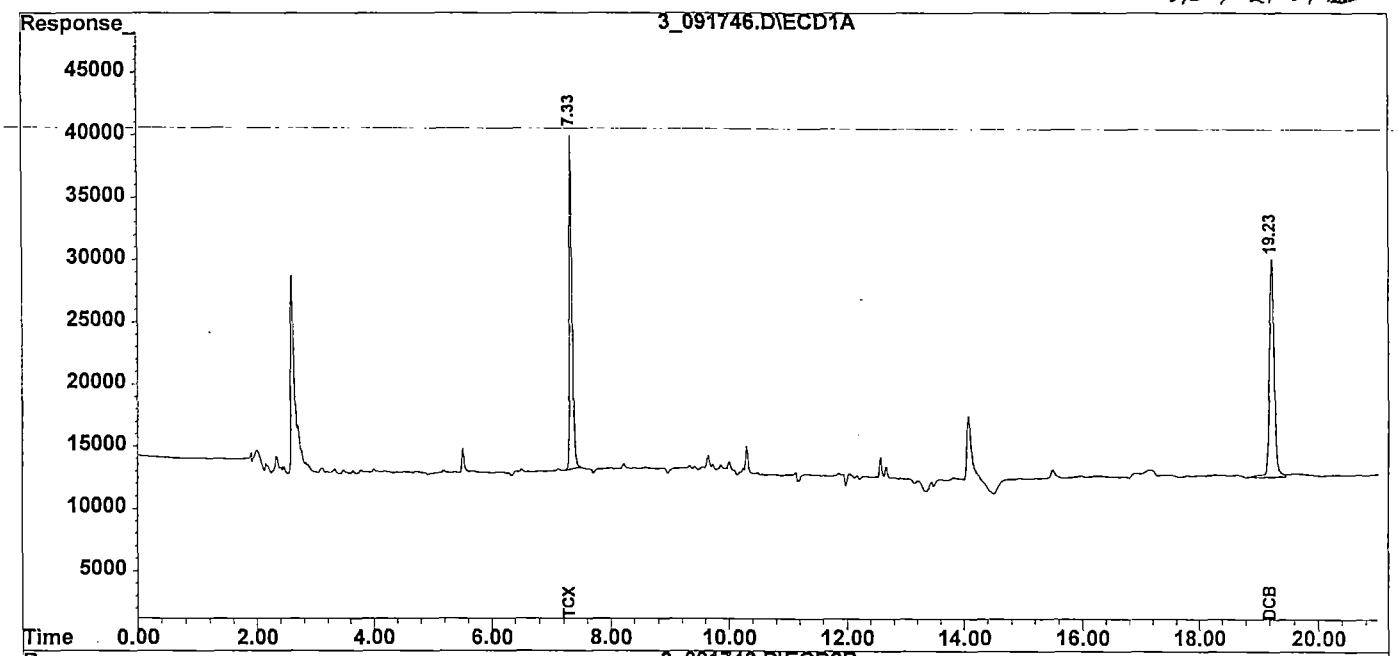
Chromatographic Report

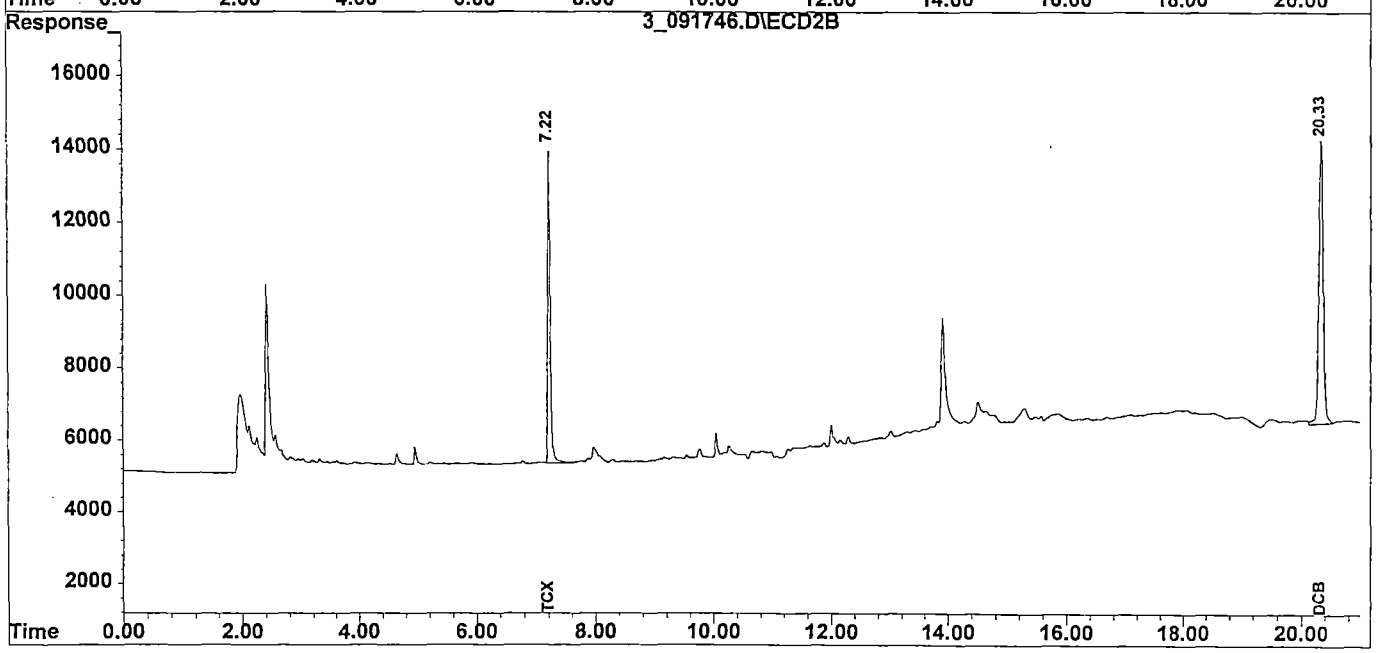
Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091746.D\ECD1A.CH Vial: 46
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091746.D\ECD2B.CH
Acq On : 18 Sep 2001 12:16 Operator: BTB
Sample : 47348.20 *E03E6 * Inst : HP_03
Misc : *EPA*30.4G/5.0ML*62 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 11:52 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

OK 9-21-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091746.D\ECD1A.CH Vial: 46
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091746.D\ECD2B.CH
Acq On : 18 Sep 2001 12:16 Operator: BTB
Sample : 47348.20 *E03E6 * Inst : HP_03
Misc : *EPA*30.4G/5.0ML*62 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 11:52 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	839442	252424	13.4	13.5
	Spiked Amount 17.313			Recovery	=	77.40%	77.98%
22)	S DCB	19.24	20.34	937697	415876	14.4	14.7
	Spiked Amount 17.313			Recovery	=	✓83.17%	✓84.91%

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.

E03E7

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Matrix: (soil/water) SOIL Lab Sample ID: 47348.21

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

% Moisture: 56 decanted: (Y/N) __ Date Received: 08/20/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/23/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/18/01

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	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	15.10	

WJ TBS 10-11-01

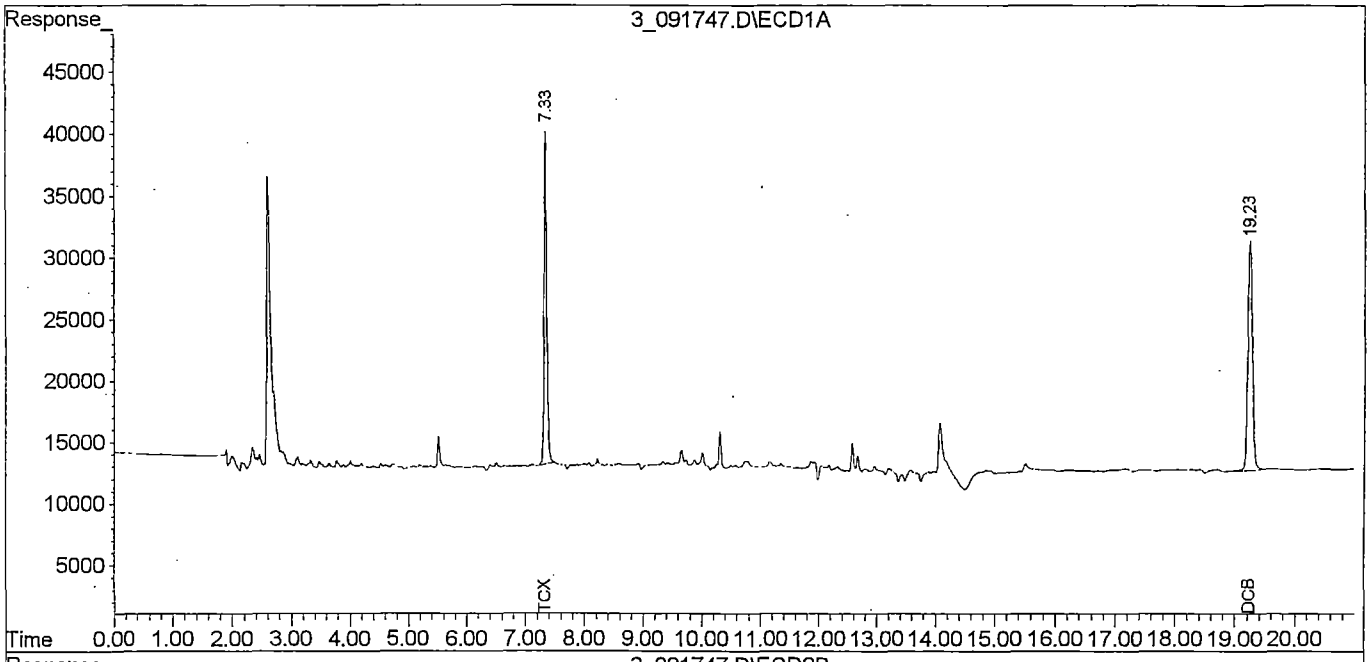
Chromatographic Report

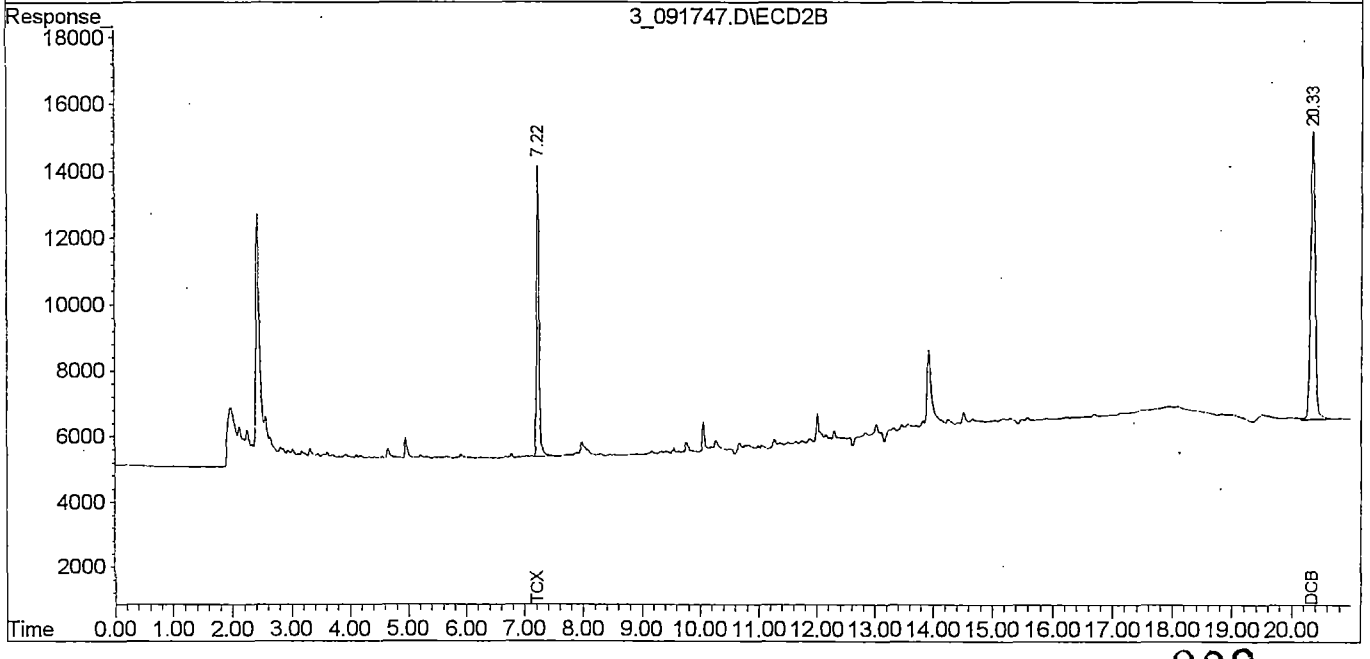
Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091747.D\ECD1A.CH Vial: 47
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091747.D\ECD2B.CH
Acq On : 18 Sep 2001 12:42 Operator: BTB
Sample : 47348.21 *E03E7 * Inst : HP_03
Misc : *EPA*30.1G/5.0ML*56 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 21 17:41 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

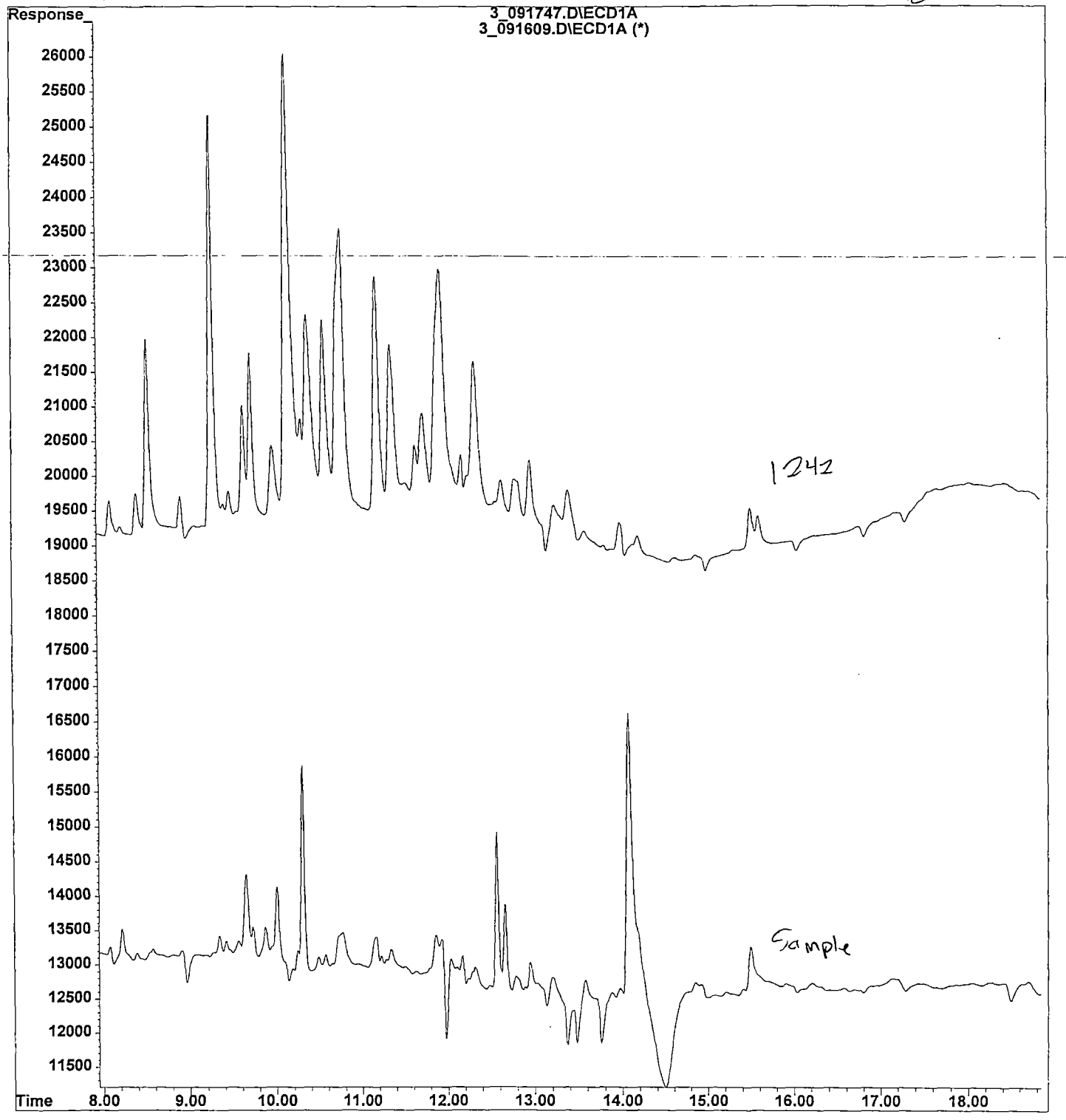
OK 9-21-01





File : F:\HPCHEM\HP\3\DATA\09_17_01\3_091747.D
Operator : BTB
Acquired : 18 Sep 2001 12:42 using AcqMethod OLM03.M
Instrument : HP_03
Sample Name: 47348.21 *E03E7 *
Misc Info : *EPA*30.1G/5.0ML*56
Vial Number: 47

No match 9-21-01



Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091747.D\ECD1A.CH Vial: 47
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091747.D\ECD2B.CH
Acq On : 18 Sep 2001 12:42 Operator: BTB
Sample : 47348.21 *E03E7 * Inst : HP_03
Misc : *EPA*30.1G/5.0ML*56 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 21 17:41 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	844928	249527	11.8	11.6
	Spiked Amount 15.101			Recovery	=	78.14%	76.82%
22)	S DCB	19.24	20.34	968748	450676	13.0	13.9
	Spiked Amount 15.101			Recovery	=	✓86.09%	✓92.05%
	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.

E03E8

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Matrix: (soil/water) SOIL Lab Sample ID: 47348.22

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

% Moisture: 30 decanted: (Y/N) __ Date Received: 08/20/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/23/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/18/01

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	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		9.31	

WJ TBS 10-11-01

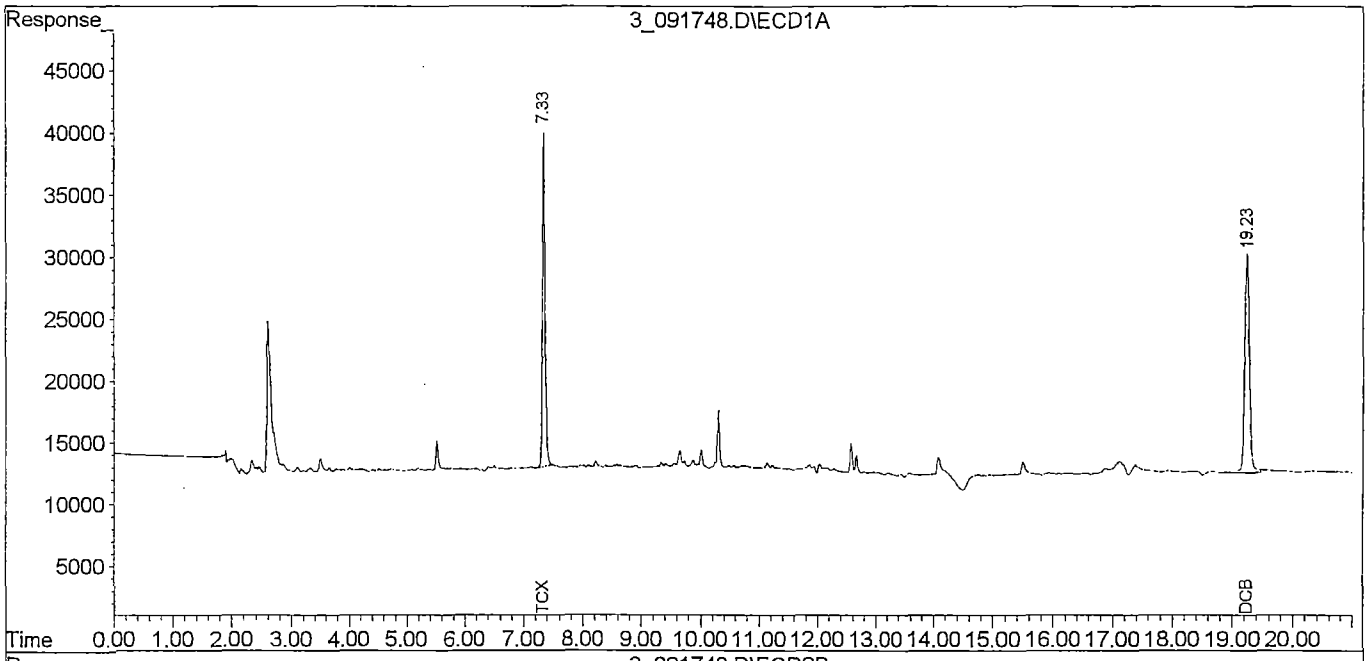
Chromatographic Report

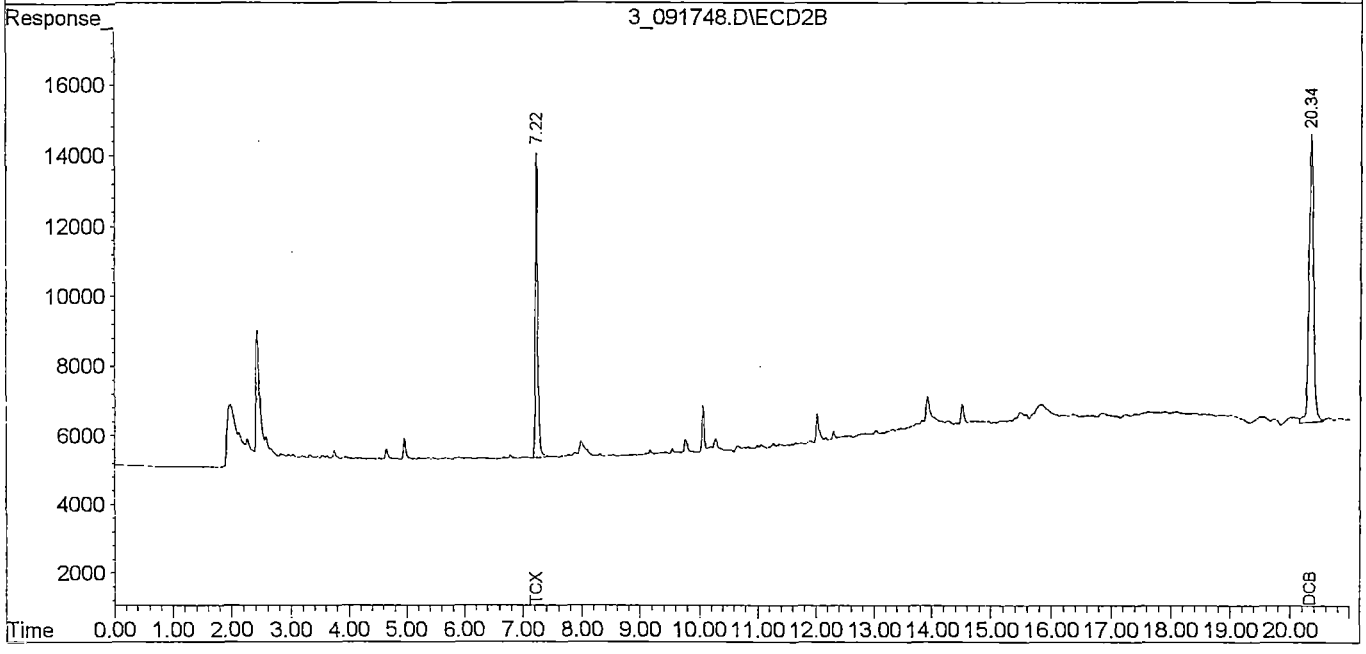
Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091748.D\ECD1A.CH Vial: 48
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091748.D\ECD2B.CH
Acq On : 18 Sep 2001 13:07 Operator: BTB
Sample : 47348.22 ✓ *E03E8 ✓ * Inst : HP_03
Misc : *EPA*30.7G/5.0ML*30 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 21 17:45 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

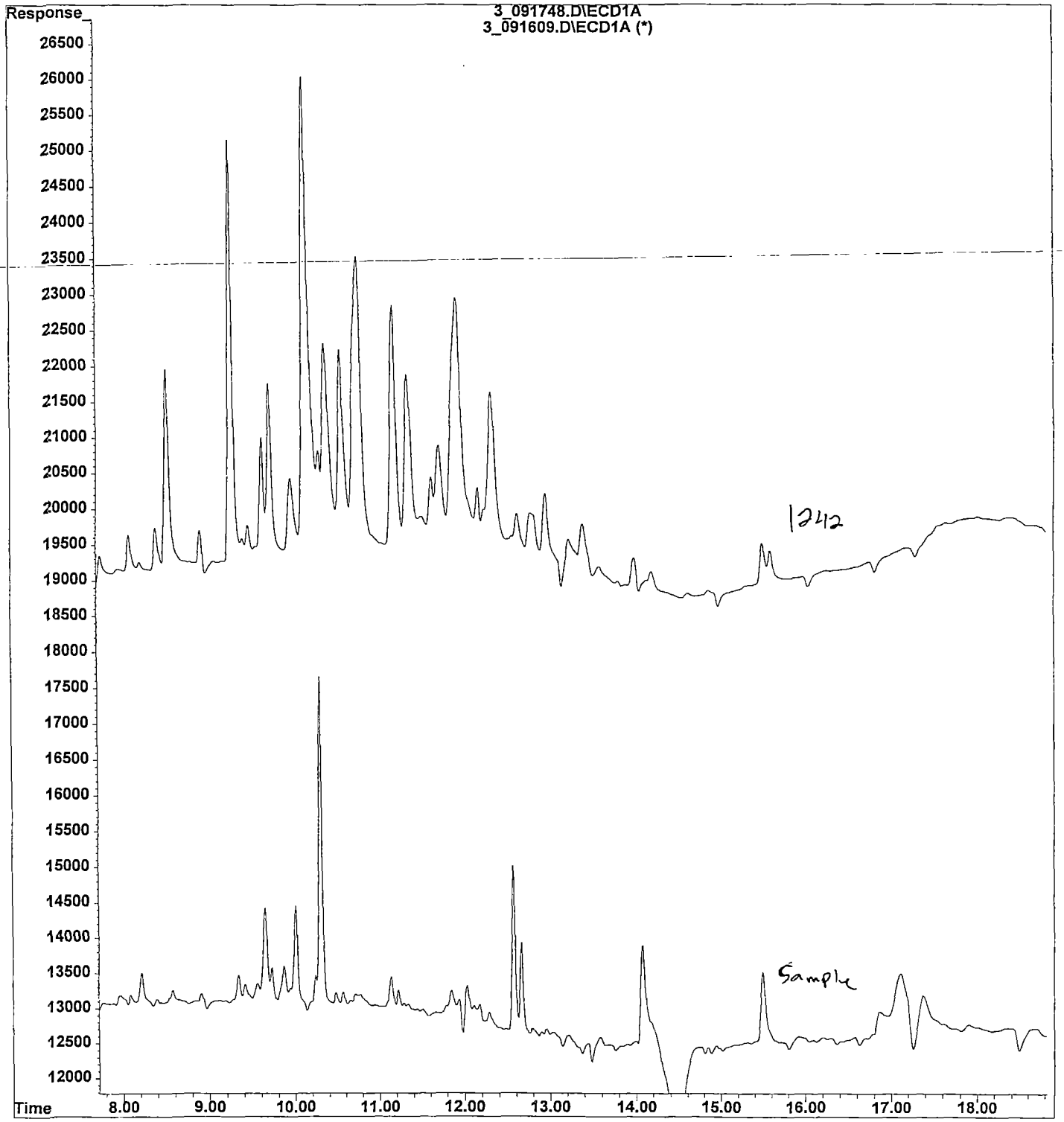
OK 9-21-01





File : F:\HPCHEM\HP\3\DATA\09_17_01\3_091748.D
Operator : BTB
Acquired : 18 Sep 2001 13:07 using AcqMethod OLM03.M
Instrument : HP_03
Sample Name: 47348.22 *E03E8 *
Misc Info : *EPA*30.7G/5.0ML*30
Vial Number: 48

No match 9-21-01



Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091748.D\ECD1A.CH Vial: 48
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091748.D\ECD2B.CH
Acq On : 18 Sep 2001 13:07 Operator: BTB
Sample : 47348.22 *E03E8 * Inst : HP_03
Misc : *EPA*30.7G/5.0ML*30 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 21 17:45 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	833024	242885	7.150	6.974
	Spiked Amount 9.307			Recovery	=	76.83%	74.94%
22)	S DCB	19.24	20.34	943234	441744	7.801	8.388
	Spiked Amount 9.307			Recovery	=	83.82%	90.13%

Target Compounds:

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

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Instrument ID: HP_03A Date(s) Analyzed: 09/16/01 09/16/01

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

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

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1242 L1	0.10	1	8.53	1392990	MEAN
		2	9.27	2277240	
		3	10.14	3926240	
		4	11.18	1637440	
		5	12.33	1224360	
Aroclor 1242 L2	0.20	1	8.53	1172510	MEAN
		2	9.26	2122345	
		3	10.13	3993125	
		4	11.18	1711780	
		5	12.33	1141420	
Aroclor 1242 L3	0.40	1	8.53	1180753	MEAN
		2	9.26	2061803	
		3	10.13	3837340	
		4	11.17	1705620	
		5	12.32	1336470	
Aroclor 1242 L4	0.80	1	8.53	1029215	MEAN
		2	9.26	1833078	
		3	10.13	3453063	
		4	11.17	1564910	
		5	12.31	1315550	
Aroclor 1242 L5	1.60	1	8.53	881244	MEAN
		2	9.26	1567898	
		3	10.13	2982248	
		4	11.17	1364523	
		5	12.31	1204945	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	8.53	8.48	8.58	1131342	16.9
	2	9.26	9.21	9.31	1972473	14.0
	3	10.13	10.08	10.18	3638403	11.6
	4	11.17	11.12	11.22	1596855	8.9
	5	12.32	12.27	12.37	1244549	6.5

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Instrument ID: HP_03B Date(s) Analyzed: 09/16/01 09/16/01

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

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

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1242 L1	0.10	1	8.57	321070	MEAN
		2	9.39	724160	
		3	10.09	1375630	
		4	11.28	422610	
		5	12.38	360800	
Aroclor 1242 L2	0.20	1	8.57	337375	MEAN
		2	9.39	741490	
		3	10.09	1423700	
		4	11.28	443310	
		5	12.38	421260	
Aroclor 1242 L3	0.40	1	8.57	337990	MEAN
		2	9.39	728935	
		3	10.09	1408403	
		4	11.28	462803	
		5	12.37	400020	
Aroclor 1242 L4	0.80	1	8.57	310388	MEAN
		2	9.39	662123	
		3	10.09	1288735	
		4	11.27	438244	
		5	12.37	379075	
Aroclor 1242 L5	1.60	1	8.57	274785	MEAN
		2	9.39	576599	
		3	10.09	1115940	
		4	11.27	396570	
		5	12.37	359465	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	8.57	8.52	8.62	316322	8.2
	2	9.39	9.34	9.44	686661	10.0
	3	10.09	10.04	10.14	1322482	9.6
	4	11.28	11.23	11.33	432707	5.7
	5	12.37	12.32	12.42	384124	6.9

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Instrument ID: HP_03A Date(s) Analyzed: 09/16/01 09/16/01

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

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

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1254 L1	0.10	1	10.72	2286500	MEAN
		2	11.87	4056410	
		3	12.18	3689490	
		4	12.96	4210990	
		5	14.20	3147000	
Aroclor 1254 L2	0.20	1	10.72	2400415	MEAN
		2	11.86	4260525	
		3	12.18	3857115	
		4	12.96	4620665	
		5	14.19	4031760	
Aroclor 1254 L3	0.40	1	10.72	2051763	MEAN
		2	11.86	3907293	
		3	12.18	3588648	
		4	12.96	4003333	
		5	14.19	3196185	
Aroclor 1254 L4	0.80	1	10.72	1813805	MEAN
		2	11.86	3474848	
		3	12.18	3172336	
		4	12.95	3667550	
		5	14.19	2933496	
Aroclor 1254 L5	1.60	1	10.72	1560790	MEAN
		2	11.86	3033997	
		3	12.17	2821695	
		4	12.95	3234499	
		5	14.18	2676723	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	10.72	10.67	10.77	2022655	16.9
	2	11.86	11.81	11.91	3746614	13.1
	3	12.18	12.13	12.23	3425857	12.3
	4	12.96	12.91	13.01	3947407	13.4
	5	14.19	14.14	14.24	3197033	15.9

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Instrument ID: HP_03B Date(s) Analyzed: 09/16/01 09/16/01

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

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

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1254 L1	0.10	1	10.68	511150	MEAN
		2	12.10	1175200	
		3	13.04	1586190	
		4	13.47	871670	
		5	14.26	1096500	
Aroclor 1254 L2	0.20	1	10.67	564030	MEAN
		2	12.10	1254995	
		3	13.03	1729885	
		4	13.46	926330	
		5	14.25	1239255	
Aroclor 1254 L3	0.40	1	10.67	498283	MEAN
		2	12.10	1129210	
		3	13.03	1567925	
		4	13.46	825438	
		5	14.25	1100335	
Aroclor 1254 L4	0.80	1	10.67	460596	MEAN
		2	12.09	1022094	
		3	13.03	1298030	
		4	13.46	756781	
		5	14.25	1041651	
Aroclor 1254 L5	1.60	1	10.67	402601	MEAN
		2	12.09	905229	
		3	13.02	1170963	
		4	13.46	678939	
		5	14.25	955746	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	10.67	10.62	10.72	487332	12.3
	2	12.10	12.05	12.15	1097346	12.4
	3	13.03	12.98	13.08	1470599	15.6
	4	13.46	13.41	13.51	811832	11.9
	5	14.25	14.20	14.30	1086698	9.5

6F

AROCLOR INTTIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Instrument ID: HP_03A Date(s) Analyzed: 09/16/01 09/16/01

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

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

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1016 L1	0.10	1	8.53	1593800	MEAN
		2	9.26	3058520	
		3	10.13	5160880	
		4	10.77	4542340	
		5	11.18	2086240	
Aroclor 1016 L2	0.20	1	8.53	1532780	MEAN
		2	9.26	2778360	
		3	10.13	5210130	
		4	10.77	4090865	
		5	11.18	2122895	
Aroclor 1016 L3	0.40	1	8.53	1379420	MEAN
		2	9.26	2593275	
		3	10.13	5014395	
		4	10.77	3767810	
		5	11.18	2096023	
Aroclor 1016 L4	0.80	1	8.53	1201891	MEAN
		2	9.26	2240040	
		3	10.13	4316955	
		4	10.77	3217446	
		5	11.18	1822983	
Aroclor 1016 L5	1.60	1	8.53	1068821	MEAN
		2	9.26	2006733	
		3	10.12	3887882	
		4	10.76	2845966	
		5	11.17	1682556	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	8.53	8.48	8.58	1355343	16.3
	2	9.26	9.21	9.31	2535386	16.5
	3	10.13	10.08	10.18	4718048	12.4
	4	10.77	10.72	10.82	3692886	18.3
	5	11.18	11.13	11.23	1962139	10.1

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Instrument ID: HP_03A Date(s) Analyzed: 09/16/01 09/16/01

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

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

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1260 L1	0.10	1	12.96	2545200	MEAN
		2	13.58	4087000	
		3	14.84	2274290	
		4	15.42	5229460	
		5	16.23	3842210	
Aroclor 1260 L2	0.20	1	12.96	2301790	MEAN
		2	13.58	3484120	
		3	14.84	2220095	
		4	15.42	4993640	
		5	16.23	3769560	
Aroclor 1260 L3	0.40	1	12.95	2166158	MEAN
		2	13.58	3313470	
		3	14.84	2152223	
		4	15.41	4780250	
		5	16.23	3681480	
Aroclor 1260 L4	0.80	1	12.95	1934058	MEAN
		2	13.57	2790880	
		3	14.84	1954621	
		4	15.41	4355330	
		5	16.23	3378309	
Aroclor 1260 L5	1.60	1	12.95	1730044	MEAN
		2	13.57	2565985	
		3	14.83	1785564	
		4	15.41	4015347	
		5	16.22	3126346	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	12.95	12.90	13.00	2135450	14.8
	2	13.58	13.53	13.63	3248291	18.5
	3	14.84	14.79	14.89	2077359	9.8
	4	15.41	15.36	15.46	4674805	10.5
	5	16.23	16.18	16.28	3559581	8.4

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Instrument ID: HP_03B Date(s) Analyzed: 09/16/01 09/16/01

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

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

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1016 L1	0.10	1	8.57	412770	MEAN
		2	9.39	998990	
		3	10.09	1793960	
		4	10.67	799760	
		5	11.28	553410	
Aroclor 1016 L2	0.20	1	8.57	409405	MEAN
		2	9.39	950955	
		3	10.09	1779860	
		4	10.67	819820	
		5	11.28	540970	
Aroclor 1016 L3	0.40	1	8.57	406708	MEAN
		2	9.39	924113	
		3	10.09	1823270	
		4	10.66	848460	
		5	11.28	542480	
Aroclor 1016 L4	0.80	1	8.57	361261	MEAN
		2	9.39	811813	
		3	10.09	1615808	
		4	10.66	767414	
		5	11.27	498305	
Aroclor 1016 L5	1.60	1	8.57	333530	MEAN
		2	9.39	740969	
		3	10.09	1478819	
		4	10.66	714483	
		5	11.27	474536	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	8.57	8.52	8.62	384735	9.2
	2	9.39	9.34	9.44	885368	12.0
	3	10.09	10.04	10.14	1698343	8.7
	4	10.66	10.61	10.71	789987	6.5
	5	11.28	11.23	11.33	521940	6.5

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Instrument ID: HP_03A Date(s) Analyzed: 09/16/01 09/16/01

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

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

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1221	0.40	1	8.10	811603	SINGLE
		2	8.40	584420	POINT
		3	8.53	2227165	
		4			
		5			
Aroclor 1232	0.40	1	8.41	432260	SINGLE
		2	9.26	1275500	POINT
		3	9.72	682990	
		4	10.56	835720	
		5			
Aroclor 1248	0.40	1	9.72	340080	SINGLE
		2	10.55	960600	POINT
		3	11.71	1316430	
		4	12.63	716480	
		5	13.97	657170	

FORM VI PCB-3

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Instrument ID: HP_03B Date(s) Analyzed: 09/16/01 09/16/01

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

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

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1221	0.40	1	8.14	226718	SINGLE
		2	8.44	157923	POINT
		3	8.57	496595	
		4			
		5			
Aroclor 1232	0.40	1	8.57	464300	SINGLE
		2	9.39	485510	POINT
		3	10.09	897530	
		4	11.28	230170	
		5			
Aroclor 1248	0.40	1	9.96	102743	SINGLE
		2	10.40	211753	POINT
		3	12.23	222470	
		4	12.60	238150	
		5	13.46	187335	

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MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 09/16/01 09/16/01

Client Sample No.(PIBLK): PIBLK3F Date Analyzed : 09/17/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1727

Client Sample No.: AR1660L33F Date Analyzed : 09/17/01

Lab Sample ID : 5-210-7 Time Analyzed : 1753

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.53	8.48	8.58	1299295	1355343	4.1
Aroclor 1016 #2	9.26	9.21	9.31	2381298	2535386	6.1
Aroclor 1016 #3	10.13	10.08	10.18	4510763	4718048	4.4
Aroclor 1016 #4	10.77	10.72	10.82	3479448	3692886	5.8
Aroclor 1016 #5	11.17	11.13	11.23	2012720	1962139	2.6
Aroclor 1260 #1	12.95	12.90	13.00	1987658	2135450	6.9
Aroclor 1260 #2	13.57	13.53	13.63	3005940	3248291	7.5
Aroclor 1260 #3	14.83	14.79	14.89	2025630	2077359	2.5
Aroclor 1260 #4	15.41	15.36	15.46	4423668	4674805	5.4
Aroclor 1260 #5	16.22	16.18	16.28	3381265	3559581	5.0

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

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MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 09/16/01 09/16/01

Client Sample No.(PIBLK): PIBLK3F Date Analyzed : 09/17/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1727

Client Sample No.: AR1660L33F Date Analyzed : 09/17/01

Lab Sample ID : 5-210-7 Time Analyzed : 1753

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.57	8.52	8.62	407350	384735	5.9
Aroclor 1016 #2	9.39	9.34	9.44	901230	885368	1.8
Aroclor 1016 #3	10.09	10.04	10.14	1764843	1698343	3.9
Aroclor 1016 #4	10.66	10.61	10.71	822515	789987	4.1
Aroclor 1016 #5	11.27	11.23	11.33	528525	521940	1.3
Aroclor 1260 #1	13.32	13.27	13.37	1250093	1258402	0.7
Aroclor 1260 #2	14.08	14.03	14.13	788495	821251	4.0
Aroclor 1260 #3	15.04	14.99	15.09	777063	1079631	28.0*
Aroclor 1260 #4	16.43	16.39	16.49	1056740	1106922	4.5
Aroclor 1260 #5	17.76	17.72	17.82	770888	780366	1.2

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

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MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 09/16/01 09/16/01

Client Sample No.(PIBLK): PIBLK3G Date Analyzed : 09/18/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 0018

Client Sample No.: AR1660L33H Date Analyzed : 09/18/01

Lab Sample ID : 5-210-7 Time Analyzed : 0044

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.52	8.48	8.58	1276730	1355343	5.8
Aroclor 1016 #2	9.26	9.21	9.31	2372153	2535386	6.4
Aroclor 1016 #3	10.12	10.08	10.18	4573123	4718048	3.1
Aroclor 1016 #4	10.76	10.72	10.82	3406478	3692886	7.8
Aroclor 1016 #5	11.17	11.13	11.23	1916050	1962139	2.4
Aroclor 1260 #1	12.94	12.90	13.00	1895648	2135450	11.2
Aroclor 1260 #2	13.57	13.53	13.63	2931930	3248291	9.7
Aroclor 1260 #3	14.83	14.79	14.89	2008623	2077359	3.3
Aroclor 1260 #4	15.40	15.36	15.46	4327713	4674805	7.4
Aroclor 1260 #5	16.22	16.18	16.28	3380120	3559581	5.0

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

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MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 09/16/01 09/16/01

Client Sample No.(PIBLK): PIBLK3G Date Analyzed : 09/18/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 0018

Client Sample No.: AR1660L33H Date Analyzed : 09/18/01

Lab Sample ID : 5-210-7 Time Analyzed : 0044

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.57	8.52	8.62	409893	384735	6.5
Aroclor 1016 #2	9.39	9.34	9.44	907620	885368	2.5
Aroclor 1016 #3	10.08	10.04	10.14	1816283	1698343	6.9
Aroclor 1016 #4	10.66	10.61	10.71	846815	789987	7.2
Aroclor 1016 #5	11.27	11.23	11.33	543050	521940	4.0
Aroclor 1260 #1	13.32	13.27	13.37	1261090	1258402	0.2
Aroclor 1260 #2	14.07	14.03	14.13	795873	821251	3.1
Aroclor 1260 #3	15.03	14.99	15.09	1125285	1079631	4.2
Aroclor 1260 #4	16.43	16.39	16.49	1087178	1106922	1.8
Aroclor 1260 #5	17.75	17.72	17.82	774808	780366	0.7

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

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MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 09/16/01 09/16/01

Client Sample No.(PIBLK): PIBLK3H Date Analyzed : 09/18/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 0734

Client Sample No.: AR1660L33J Date Analyzed : 09/18/01

Lab Sample ID : 5-210-7 Time Analyzed : 0759

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.53	8.48	8.58	1299558	1355343	4.1
Aroclor 1016 #2	9.26	9.21	9.31	2412803	2535386	4.8
Aroclor 1016 #3	10.13	10.08	10.18	4640328	4718048	1.7
Aroclor 1016 #4	10.77	10.72	10.82	3388025	3692886	8.3
Aroclor 1016 #5	11.18	11.13	11.23	1871143	1962139	4.6
Aroclor 1260 #1	12.95	12.90	13.00	1817925	2135450	14.9
Aroclor 1260 #2	13.57	13.53	13.63	2800980	3248291	13.8
Aroclor 1260 #3	14.83	14.79	14.89	1908383	2077359	8.1
Aroclor 1260 #4	15.41	15.36	15.46	4134868	4674805	11.5
Aroclor 1260 #5	16.22	16.18	16.28	3202803	3559581	10.0

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

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MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 09/16/01 09/16/01

Client Sample No.(PIBLK): PIBLK3H Date Analyzed : 09/18/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 0734

Client Sample No.: AR1660L33J Date Analyzed : 09/18/01

Lab Sample ID : 5-210-7 Time Analyzed : 0759

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.57	8.52	8.62	410873	384735	6.8
Aroclor 1016 #2	9.39	9.34	9.44	905930	885368	2.3
Aroclor 1016 #3	10.09	10.04	10.14	1765868	1698343	4.0
Aroclor 1016 #4	10.67	10.61	10.71	850213	789987	7.6
Aroclor 1016 #5	11.28	11.23	11.33	543573	521940	4.1
Aroclor 1260 #1	13.32	13.27	13.37	1229708	1258402	2.3
Aroclor 1260 #2	14.08	14.03	14.13	847048	821251	3.1
Aroclor 1260 #3	15.03	14.99	15.09	868190	1079631	19.6*
Aroclor 1260 #4	16.43	16.39	16.49	1064080	1106922	3.9
Aroclor 1260 #5	17.76	17.72	17.82	770058	780366	1.3

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

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MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 09/16/01 09/16/01

Client Sample No.(PIBLK): PIBLK3I Date Analyzed : 09/18/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1450

Client Sample No.: AR1660L33L Date Analyzed : 09/18/01

Lab Sample ID : 5-210-7 Time Analyzed : 1516

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.53	8.48	8.58	1225840	1355343	9.6
Aroclor 1016 #2	9.26	9.21	9.31	2332020	2535386	8.0
Aroclor 1016 #3	10.13	10.08	10.18	4576023	4718048	3.0
Aroclor 1016 #4	10.76	10.72	10.82	3418580	3692886	7.4
Aroclor 1016 #5	11.17	11.13	11.23	1944760	1962139	0.9
Aroclor 1260 #1	12.95	12.90	13.00	1880393	2135450	11.9
Aroclor 1260 #2	13.57	13.53	13.63	2781860	3248291	14.4
Aroclor 1260 #3	14.83	14.79	14.89	1945763	2077359	6.3
Aroclor 1260 #4	15.40	15.36	15.46	4289963	4674805	8.2
Aroclor 1260 #5	16.22	16.18	16.28	3272955	3559581	8.1

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

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MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 09/16/01 09/16/01

Client Sample No.(PIBLK): PIBLK3I Date Analyzed : 09/18/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1450

Client Sample No.: AR1660L33L Date Analyzed : 09/18/01

Lab Sample ID : 5-210-7 Time Analyzed : 1516

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.57	8.52	8.62	380033	384735	1.2
Aroclor 1016 #2	9.39	9.34	9.44	846325	885368	4.4
Aroclor 1016 #3	10.09	10.04	10.14	1680140	1698343	1.1
Aroclor 1016 #4	10.66	10.61	10.71	787673	789987	0.3
Aroclor 1016 #5	11.27	11.23	11.33	505493	521940	3.2
Aroclor 1260 #1	13.32	13.27	13.37	1190733	1258402	5.4
Aroclor 1260 #2	14.08	14.03	14.13	769308	821251	6.3
Aroclor 1260 #3	15.04	14.99	15.09	754730	1079631	30.1*
Aroclor 1260 #4	16.43	16.39	16.49	1013753	1106922	8.4
Aroclor 1260 #5	17.76	17.72	17.82	757680	780366	2.9

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

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MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 09/16/01 09/16/01

Client Sample No.(PIBLK): PIBLK3M Date Analyzed : 09/19/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1814

Client Sample No.: AR1660L33T Date Analyzed : 09/19/01

Lab Sample ID : 5-210-7 Time Analyzed : 1840

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.53	8.48	8.58	1383998	1355343	2.1
Aroclor 1016 #2	9.26	9.21	9.31	2545100	2535386	0.4
Aroclor 1016 #3	10.13	10.08	10.18	4834680	4718048	2.5
Aroclor 1016 #4	10.77	10.72	10.82	3791825	3692886	2.7
Aroclor 1016 #5	11.17	11.13	11.23	2045570	1962139	4.3
Aroclor 1260 #1	12.95	12.90	13.00	2074003	2135450	2.9
Aroclor 1260 #2	13.57	13.53	13.63	3110750	3248291	4.2
Aroclor 1260 #3	14.83	14.79	14.89	2170393	2077359	4.5
Aroclor 1260 #4	15.40	15.36	15.46	4794790	4674805	2.6
Aroclor 1260 #5	16.22	16.18	16.28	3624643	3559581	1.8

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

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 09/16/01 09/16/01

Client Sample No.(PIBLK): PIBLK3M Date Analyzed : 09/19/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1814

Client Sample No.: AR1660L33T Date Analyzed : 09/19/01

Lab Sample ID : 5-210-7 Time Analyzed : 1840

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.57	8.52	8.62	439748	384735	14.3
Aroclor 1016 #2	9.39	9.34	9.44	913128	885368	3.1
Aroclor 1016 #3	10.09	10.04	10.14	1840470	1698343	8.4
Aroclor 1016 #4	10.67	10.61	10.71	849295	789987	7.5
Aroclor 1016 #5	11.28	11.23	11.33	551535	521940	5.7
Aroclor 1260 #1	13.32	13.27	13.37	1281370	1258402	1.8
Aroclor 1260 #2	14.08	14.03	14.13	840480	821251	2.3
Aroclor 1260 #3	15.04	14.99	15.09	1111895	1079631	3.0
Aroclor 1260 #4	16.43	16.39	16.49	1126763	1106922	1.8
Aroclor 1260 #5	17.76	17.72	17.82	821350	780366	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.: 29602 SDG No.: E03C9

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 09/16/01 09/16/01

Client Sample No.(PIBLK): PIBLK3N Date Analyzed : 09/19/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 2347

Client Sample No.: AR1660L33V Date Analyzed : 09/20/01

Lab Sample ID : 5-210-7 Time Analyzed : 0013

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.53	8.48	8.58	1442245	1355343	6.4
Aroclor 1016 #2	9.26	9.21	9.31	2644748	2535386	4.3
Aroclor 1016 #3	10.13	10.08	10.18	5068195	4718048	7.4
Aroclor 1016 #4	10.76	10.72	10.82	3988280	3692886	8.0
Aroclor 1016 #5	11.17	11.13	11.23	2250260	1962139	14.7
Aroclor 1260 #1	12.95	12.90	13.00	2258403	2135450	5.8
Aroclor 1260 #2	13.57	13.53	13.63	3283810	3248291	1.1
Aroclor 1260 #3	14.83	14.79	14.89	2366768	2077359	13.9
Aroclor 1260 #4	15.41	15.36	15.46	5175503	4674805	10.7
Aroclor 1260 #5	16.22	16.18	16.28	3949995	3559581	11.0

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.: 29602 SDG No.: E03C9

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 09/16/01 09/16/01

Client Sample No.(PIBLK): PIBLK3N Date Analyzed : 09/19/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 2347

Client Sample No.: AR1660L33V Date Analyzed : 09/20/01

Lab Sample ID : 5-210-7 Time Analyzed : 0013

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.57	8.52	8.62	438650	384735	14.0
Aroclor 1016 #2	9.39	9.34	9.44	974333	885368	10.0
Aroclor 1016 #3	10.09	10.04	10.14	1975490	1698343	16.3*
Aroclor 1016 #4	10.67	10.61	10.71	917418	789987	16.1*
Aroclor 1016 #5	11.28	11.23	11.33	593060	521940	13.6
Aroclor 1260 #1	13.33	13.27	13.37	1396090	1258402	10.9
Aroclor 1260 #2	14.08	14.03	14.13	934660	821251	13.8
Aroclor 1260 #3	15.04	14.99	15.09	1236295	1079631	14.5
Aroclor 1260 #4	16.44	16.39	16.49	1244253	1106922	12.4
Aroclor 1260 #5	17.76	17.72	17.82	933998	780366	19.7*

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

FORM VII PCB

8D
AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SAS No.: SDG No.: E03C9

GC Column: DB-17MS ID: 0.32(mm) Init. Calib. Date(s): 09/16/01

Instrument ID: HP_03A

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	RESC3E	5-171-7	09/16/01	1303	7.34	19.25
02	AR1221L33E	5-420-6	09/16/01	1329	7.33	19.24
03	AR1232L33E	5-422-6	09/16/01	1355	7.33	19.24
04	AR1242L13E	5-11-7	09/16/01	1420	7.33	19.24
05	AR1242L23E	5-10-7	09/16/01	1446	7.33	19.25
06	AR1242L33E	5-9-7	09/16/01	1512	7.33	19.24
07	AR1242L43E	5-8-7	09/16/01	1537	7.33	19.24
08	AR1242L53E	5-7-7	09/16/01	1603	7.33	19.24
09	AR1248L33E	5-424-6	09/16/01	1629	7.33	19.24
10	AR1254L13E	5-6-7	09/16/01	1654	7.33	19.25
11	AR1254L23E	5-5-7	09/16/01	1720	7.33	19.24
12	AR1254L33E	5-4-7	09/16/01	1746	7.33	19.24
13	AR1254L43E	5-3-7	09/16/01	1811	7.33	19.25
14	AR1254L53E	5-2-7	09/16/01	1837	7.33	19.24
15	AR1660L13E	5-212-7	09/16/01	1902	7.33	19.24
16	AR1660L23E	5-211-7	09/16/01	1928	7.33	19.25
17	AR1660L33E	5-210-7	09/16/01	1954	7.33	19.24
18	AR1660L43E	5-209-7	09/16/01	2019	7.33	19.25
19	AR1660L53E	5-208-7	09/16/01	2045	7.33	19.24
20	PIBLK3E	5-131-7	09/16/01	2110	7.33	19.24
21	PIBLK3F	5-131-7	09/17/01	1727	7.34	19.26
22	AR1660L33F	5-210-7	09/17/01	1753	7.33	19.24
23	PBLKSB	BL0823SB	09/17/01	1936	7.33	19.23
24	ELCS1	LC0823SB	09/17/01	2027	7.33	19.23
25	ELCS2	LD0823SB	09/17/01	2053	7.33	19.23
26	PIBLK3G	5-131-7	09/18/01	0018	7.33	19.24
27	AR1660L33H	5-210-7	09/18/01	0044	7.33	19.23
28	E03C9	47348.01	09/18/01	0135	7.33	19.23
29	E03C9MS	47348.02MS	09/18/01	0201	7.33	19.23
30	E03C9MSD	47348.03MSD	09/18/01	0226	7.33	19.24
31	E03D0	47348.04	09/18/01	0252	7.33	19.23
32	E03D1	47348.05	09/18/01	0317	7.33	19.23
33	E03D2	47348.06	09/18/01	0343	7.33	19.24
34	E03D3	47348.07	09/18/01	0409	7.33	19.23
35	E03D4	47348.08	09/18/01	0434	7.33	19.24

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

8D
AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SAS No.: SDG No.: E03C9

GC Column: DB-17MS ID: 0.32(mm) Init. Calib. Date(s): 09/16/01

Instrument ID: HP_03A

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	E03D5	47348.09	09/18/01	0500	7.33	19.23
02	E03D6	47348.10	09/18/01	0526	7.33	19.24
03	E03D7	47348.11	09/18/01	0551	7.33	19.24
04	PIBLK3H	5-131-7	09/18/01	0734	7.33	19.24
05	AR1660L33J	5-210-7	09/18/01	0759	7.33	19.24
06	E03D8	47348.12	09/18/01	0851	7.33	19.23
07	E03D9	47348.13	09/18/01	0916	7.33	19.23
08	E03E0	47348.14	09/18/01	0942	7.33	19.23
09	E03E1	47348.15	09/18/01	1008	7.33	19.24
10	E03E2	47348.16	09/18/01	1033	7.33	19.23
11	E03E3	47348.17	09/18/01	1059	7.33	19.23
12	E03E4	47348.18	09/18/01	1125	7.33	19.23
13	E03E5	47348.19	09/18/01	1150	7.33	19.23
14	E03E6	47348.20	09/18/01	1216	7.33	19.24
15	E03E7	47348.21	09/18/01	1242	7.33	19.24
16	E03E8	47348.22	09/18/01	1307	7.33	19.24
17	PIBLK3I	5-131-7	09/18/01	1450	7.33	19.24
18	AR1660L33L	5-210-7	09/18/01	1516	7.33	19.23
19	PIBLK3M	5-131-7	09/19/01	1814	7.33	19.24
20	AR1660L33T	5-210-7	09/19/01	1840	7.33	19.23
21	E03C9DL	47348.01DL	09/19/01	1931	7.33	19.23
22	E03D0DL	47348.04DL	09/19/01	1957	7.33	19.23
23	E03D1DL	47348.05DL	09/19/01	2048	7.33	19.23
24	E03D6DL	47348.10DL	09/19/01	2114	7.33	19.24
25	E03D7DL	47348.11DL	09/19/01	2139	7.33	19.24
26	E03D8DL	47348.12DL	09/19/01	2205	7.33	19.24
27	PIBLK3N	5-131-7	09/19/01	2347	7.33	19.24
28	AR1660L33V	5-210-7	09/20/01	0013	7.33	19.24
29						
30						
31						
32						
33						
34						
35						

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

8D
AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SAS No.: SDG No.: E03C9

GC Column: DB-XLB ID: 0.32(mm) Init. Calib. Date(s): 09/16/01

Instrument ID: HP_03B

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	RESC3E	5-171-7	09/16/01	1303	7.23	20.35
02	AR1221L33E	5-420-6	09/16/01	1329	7.22	20.35
03	AR1232L33E	5-422-6	09/16/01	1355	7.22	20.35
04	AR1242L13E	5-11-7	09/16/01	1420	7.22	20.35
05	AR1242L23E	5-10-7	09/16/01	1446	7.22	20.35
06	AR1242L33E	5-9-7	09/16/01	1512	7.22	20.35
07	AR1242L43E	5-8-7	09/16/01	1537	7.22	20.34
08	AR1242L53E	5-7-7	09/16/01	1603	7.22	20.34
09	AR1248L33E	5-424-6	09/16/01	1629	7.22	20.34
10	AR1254L13E	5-6-7	09/16/01	1654	7.22	20.35
11	AR1254L23E	5-5-7	09/16/01	1720	7.22	20.34
12	AR1254L33E	5-4-7	09/16/01	1746	7.22	20.34
13	AR1254L43E	5-3-7	09/16/01	1811	7.22	20.35
14	AR1254L53E	5-2-7	09/16/01	1837	7.22	20.34
15	AR1660L13E	5-212-7	09/16/01	1902	7.22	20.34
16	AR1660L23E	5-211-7	09/16/01	1928	7.22	20.35
17	AR1660L33E	5-210-7	09/16/01	1954	7.22	20.34
18	AR1660L43E	5-209-7	09/16/01	2019	7.22	20.35
19	AR1660L53E	5-208-7	09/16/01	2045	7.22	20.34
20	PIBLK3E	5-131-7	09/16/01	2110	7.22	20.34
21	PIBLK3F	5-131-7	09/17/01	1727	7.23	20.36
22	AR1660L33F	5-210-7	09/17/01	1753	7.22	20.33
23	PBLKSB	BL0823SB	09/17/01	1936	7.22	20.34
24	ELCS1	LC0823SB	09/17/01	2027	7.22	20.33
25	ELCS2	LD0823SB	09/17/01	2053	7.22	20.33
26	PIBLK3G	5-131-7	09/18/01	0018	7.22	20.34
27	AR1660L33H	5-210-7	09/18/01	0044	7.22	20.33
28	E03C9	47348.01	09/18/01	0135	7.22	20.32
29	E03C9MS	47348.02MS	09/18/01	0201	7.22	20.32
30	E03C9MSD	47348.03MSD	09/18/01	0226	7.22	20.33
31	E03D0	47348.04	09/18/01	0252	7.22	20.32
32	E03D1	47348.05	09/18/01	0317	7.22	20.33
33	E03D2	47348.06	09/18/01	0343	7.22	20.34
34	E03D3	47348.07	09/18/01	0409	7.22	20.33
35	E03D4	47348.08	09/18/01	0434	7.22	20.34

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

8D
AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SAS No.: SDG No.: E03C9

GC Column: DB-XLB ID: 0.32(mm) Init. Calib. Date(s): 09/16/01

Instrument ID: HP_03B

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	E03D5	47348.09	09/18/01	0500	7.22	20.33
02	E03D6	47348.10	09/18/01	0526	7.22	20.34
03	E03D7	47348.11	09/18/01	0551	7.22	20.32
04	PIBLK3H	5-131-7	09/18/01	0734	7.22	20.34
05	AR1660L33J	5-210-7	09/18/01	0759	7.22	20.34
06	E03D8	47348.12	09/18/01	0851	7.22	20.33
07	E03D9	47348.13	09/18/01	0916	7.22	20.34
08	E03E0	47348.14	09/18/01	0942	7.22	20.33
09	E03E1	47348.15	09/18/01	1008	7.22	20.34
10	E03E2	47348.16	09/18/01	1033	7.22	20.33
11	E03E3	47348.17	09/18/01	1059	7.22	20.33
12	E03E4	47348.18	09/18/01	1125	7.22	20.34
13	E03E5	47348.19	09/18/01	1150	7.22	20.33
14	E03E6	47348.20	09/18/01	1216	7.22	20.34
15	E03E7	47348.21	09/18/01	1242	7.22	20.34
16	E03E8	47348.22	09/18/01	1307	7.22	20.34
17	PIBLK3I	5-131-7	09/18/01	1450	7.22	20.34
18	AR1660L33L	5-210-7	09/18/01	1516	7.22	20.34
19	PIBLK3M	5-131-7	09/19/01	1814	7.22	20.34
20	AR1660L33T	5-210-7	09/19/01	1840	7.22	20.33
21	E03C9DL	47348.01DL	09/19/01	1931	7.22	20.33
22	E03D0DL	47348.04DL	09/19/01	1957	7.22	20.33
23	E03D1DL	47348.05DL	09/19/01	2048	7.22	20.33
24	E03D6DL	47348.10DL	09/19/01	2114	7.22	20.34
25	E03D7DL	47348.11DL	09/19/01	2139	7.22	20.33
26	E03D8DL	47348.12DL	09/19/01	2205	7.22	20.33
27	PIBLK3N	5-131-7	09/19/01	2347	7.22	20.34
28	AR1660L33V	5-210-7	09/20/01	0013	7.22	20.34
29						
30						
31						
32						
33						
34						
35						

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

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

ELCS1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Lab Sample ID: LC0823SB Date(s) Analyzed: 09/17/01 09/17/01

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

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

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.71	10.67	10.77	93.8		
Aroclor-1254	2	11.86	11.81	11.91	102		
	3	12.17	12.13	12.23	106		
COLUMN 1	4	12.95	12.91	13.01	102		
	5	14.18	14.14	14.24	105	100	
	1	10.67	10.62	10.72	101		
	2	12.09	12.05	12.15	109		
	3	13.03	12.98	13.08	109		
COLUMN 2	4	13.45	13.41	13.51	110		
	5	14.25	14.20	14.30	111	110	10.0
	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.

ELCS2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Lab Sample ID: LD0823SB Date(s) Analyzed: 09/17/01 09/17/01

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

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

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.72	10.67	10.77	103		
Aroclor-1254	2	11.86	11.81	11.91	112		
	3	12.17	12.13	12.23	118		
COLUMN 1	4	12.95	12.91	13.01	111		
	5	14.18	14.14	14.24	114	110	
	1	10.67	10.62	10.72	110		
	2	12.09	12.05	12.15	120		
	3	13.02	12.98	13.08	108		
COLUMN 2	4	13.46	13.41	13.51	121		
	5	14.25	14.20	14.30	122	120	9.1
	1						
_____	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
_____	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E03C9

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Lab Sample ID: 47348.01 Date(s) Analyzed: 09/18/01 09/18/01

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

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

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1242 COLUMN 1	1	8.54	8.48	8.58	510		
	2	9.26	9.21	9.31	294		
	3	10.12	10.08	10.18	826		
	4	11.16	11.12	11.22	2960		
	5	12.30	12.27	12.37	2450	1400	
Aroclor-1242 COLUMN 2	1						
	2	9.38	9.34	9.44	378		
	3	10.08	10.04	10.14	914		
	4	11.26	11.23	11.33	3400		
	5	12.34	12.32	12.42	2800	1900	35.7
Aroclor-1254 COLUMN 1	1	10.73	10.67	10.77	3800		
	2	11.85	11.81	11.91	912		
	3	12.16	12.13	12.23	747		
	4	12.94	12.91	13.01	1230		
	5	14.17	14.14	14.24	1580	1700	
Aroclor-1254 COLUMN 2	1	10.66	10.62	10.72	3090		
	2	12.08	12.05	12.15	1680		
	3	13.01	12.98	13.08	1510		
	4	13.44	13.41	13.51	1640		
	5	14.24	14.20	14.30	1760	1900	11.8
Aroclor-1260 COLUMN 1	1	12.94	12.90	13.00	2280		
	2	13.56	13.53	13.63	723		
	3	14.84	14.79	14.89	668		
	4	15.40	15.36	15.46	406		
	5	16.21	16.18	16.28	438	900	
Aroclor-1260 COLUMN 2	1	13.31	13.27	13.37	860		
	2	14.07	14.03	14.13	916		
	3	15.03	14.99	15.09	288		
	4	16.42	16.39	16.49	494		
	5	17.75	17.72	17.82	539	620	45.2

At least 3 peaks are required for identification of multicomponent analytes

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10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E03C9DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Lab Sample ID: 47348.01DL Date(s) Analyzed: 09/19/01 09/19/01

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

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

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.54	8.48	8.58	681		
Aroclor-1242	2	9.26	9.21	9.31	437		
	3	10.13	10.08	10.18	1320		
COLUMN 1	4	11.17	11.12	11.22	4900		
	5	12.32	12.27	12.37	4010	2300	
	1						
	2	9.39	9.34	9.44	463		
	3	10.09	10.04	10.14	1230		
COLUMN 2	4	11.27	11.23	11.33	4760		
	5	12.35	12.32	12.42	3040	2400	4.3
	1	10.74	10.67	10.77	6610		
Aroclor-1254	2	11.86	11.81	11.91	1510		
	3	12.17	12.13	12.23	1300		
COLUMN 1	4	12.94	12.91	13.01	1960		
	5	14.18	14.14	14.24	2390	2800	
	1	10.67	10.62	10.72	4710		
	2	12.09	12.05	12.15	2390		
	3	13.02	12.98	13.08	2230		
COLUMN 2	4	13.45	13.41	13.51	2400		
	5	14.24	14.20	14.30	2370	2800	0.0
	1	12.94	12.90	13.00	3620		
Aroclor-1260	2	13.57	13.53	13.63	1160		
	3	14.84	14.79	14.89	996		
COLUMN 1	4	15.40	15.36	15.46	594		
	5	16.22	16.18	16.28	608	1400	
	1	13.32	13.27	13.37	1350		
	2	14.07	14.03	14.13	1360		
	3	15.03	14.99	15.09	378		
COLUMN 2	4	16.42	16.39	16.49	581		
	5	17.75	17.72	17.82	704	870	60.9

At least 3 peaks are required for identification of multicomponent analytes

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E03C9MS

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Lab Sample ID: 47348.02MS Date(s) Analyzed: 09/18/01 09/18/01

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

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

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.54	8.48	8.58	482		
Aroclor-1242	2	9.26	9.21	9.31	275		
	3	10.12	10.08	10.18	767		
COLUMN 1	4	11.16	11.12	11.22	2690		
	5	12.30	12.27	12.37	2360	1300	
	1						
	2	9.38	9.34	9.44	366		
	3	10.08	10.04	10.14	881		
COLUMN 2	4	11.26	11.23	11.33	3280		
	5	12.34	12.32	12.42	2680	1800	38.5
	1	10.73	10.67	10.77	3580		
Aroclor-1254	2	11.85	11.81	11.91	911		
	3	12.16	12.13	12.23	737		
COLUMN 1	4	12.94	12.91	13.01	1220		
	5	14.17	14.14	14.24	1540	1600	
	1	10.66	10.62	10.72	3010		
	2	12.08	12.05	12.15	1720		
	3	13.01	12.98	13.08	1550		
COLUMN 2	4	13.44	13.41	13.51	1700		
	5	14.24	14.20	14.30	1930	2000	25.0
	1						
Aroclor-1260	2	13.56	13.53	13.63	717		
	3	14.84	14.79	14.89	699		
COLUMN 1	4	15.40	15.36	15.46	396		
	5	16.21	16.18	16.28	465	570	
	1	13.32	13.27	13.37	884		
	2	14.07	14.03	14.13	969		
	3	15.03	14.99	15.09	281		
COLUMN 2	4	16.42	16.39	16.49	486		
	5	17.75	17.72	17.82	539	630	10.5

At least 3 peaks are required for identification of multicomponent analytes

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10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E03C9MSD

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Lab Sample ID: 47348.03MSD Date(s) Analyzed: 09/18/01 09/18/01

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

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

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.54	8.48	8.58	469		
Aroclor-1242	2	9.26	9.21	9.31	262		
	3	10.12	10.08	10.18	725		
COLUMN 1	4	11.16	11.12	11.22	2630		
	5	12.31	12.27	12.37	2260	1300	
	1						
	2	9.38	9.34	9.44	355		
	3	10.08	10.04	10.14	847		
COLUMN 2	4	11.26	11.23	11.33	3170		
	5	12.34	12.32	12.42	2590	1700	30.8
	1	10.74	10.67	10.77	3460		
Aroclor-1254	2	11.85	11.81	11.91	866		
	3	12.16	12.13	12.23	709		
COLUMN 1	4	12.94	12.91	13.01	1170		
	5	14.18	14.14	14.24	1540	1500	
	1	10.66	10.62	10.72	2940		
	2	12.08	12.05	12.15	1650		
	3	13.02	12.98	13.08	1500		
COLUMN 2	4	13.45	13.41	13.51	1620		
	5	14.24	14.20	14.30	1840	1900	26.7
	1						
Aroclor-1260	2	13.56	13.53	13.63	651		
	3	14.84	14.79	14.89	657		
COLUMN 1	4	15.40	15.36	15.46	348		
	5	16.22	16.18	16.28	372	510	
	1	13.32	13.27	13.37	850		
	2	14.07	14.03	14.13	928		
	3						
COLUMN 2	4	16.43	16.39	16.49	566		
	5	17.75	17.72	17.82	486	710	39.2

At least 3 peaks are required for identification of multicomponent analytes

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E03D0

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Lab Sample ID: 47348.04 Date(s) Analyzed: 09/18/01 09/18/01

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

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

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.54	8.48	8.58	703		
Aroclor-1242	2	9.26	9.21	9.31	477		
	3	10.12	10.08	10.18	1380		
COLUMN 1	4	11.16	11.12	11.22	6190		
	5	12.30	12.27	12.37	4870	2700	
	1						
	2	9.38	9.34	9.44	650		
	3	10.08	10.04	10.14	1610		
COLUMN 2	4	11.26	11.23	11.33	7300		
	5	12.34	12.32	12.42	5060	3700	37.0
	1	10.73	10.67	10.77	7500		
Aroclor-1254	2	11.85	11.81	11.91	1540		
	3	12.16	12.13	12.23	1130		
COLUMN 1	4	12.94	12.91	13.01	1850		
	5	14.17	14.14	14.24	2150	2800	
	1	10.66	10.62	10.72	6050		
	2	12.08	12.05	12.15	2520		
	3	13.01	12.98	13.08	2400		
COLUMN 2	4	13.44	13.41	13.51	2480		
	5	14.24	14.20	14.30	2550	3200	14.3
	1	12.94	12.90	13.00	3410		
Aroclor-1260	2	13.56	13.53	13.63	961		
	3	14.84	14.79	14.89	944		
COLUMN 1	4	15.40	15.36	15.46	486		
	5	16.21	16.18	16.28	553	1300	
	1	13.31	13.27	13.37	1140		
	2	14.07	14.03	14.13	1250		
	3	15.03	14.99	15.09	352		
COLUMN 2	4	16.42	16.39	16.49	751		
	5	17.75	17.72	17.82	731	840	54.8

At least 3 peaks are required for identification of multicomponent analytes

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E03D0DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Lab Sample ID: 47348.04DL Date(s) Analyzed: 09/19/01 09/19/01

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

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

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.54	8.48	8.58	1020		
Aroclor-1242	2	9.26	9.21	9.31	792		
	3	10.14	10.08	10.18	2460		
COLUMN 1	4	11.17	11.12	11.22	11600		
	5	12.32	12.27	12.37	8470	4900	
	1						
	2	9.39	9.34	9.44	857		
	3	10.09	10.04	10.14	2290		
COLUMN 2	4	11.27	11.23	11.33	10900		
	5	12.36	12.32	12.42	6740	5200	6.1
	1	10.75	10.67	10.77	15200		
Aroclor-1254	2	11.87	11.81	11.91	2770		
	3	12.17	12.13	12.23	2270		
COLUMN 1	4	12.95	12.91	13.01	3230		
	5	14.18	14.14	14.24	3520	5400	
	1	10.67	10.62	10.72	10100		
	2	12.09	12.05	12.15	4210		
	3	13.02	12.98	13.08	3860		
COLUMN 2	4	13.46	13.41	13.51	3930		
	5	14.25	14.20	14.30	3780	5200	3.8
	1	12.95	12.90	13.00	5970		
Aroclor-1260	2	13.57	13.53	13.63	1800		
	3	14.85	14.79	14.89	1500		
COLUMN 1	4	15.41	15.36	15.46	780		
	5	16.22	16.18	16.28	1050	2200	
	1	13.32	13.27	13.37	1820		
	2	14.07	14.03	14.13	2070		
	3						
COLUMN 2	4	16.43	16.39	16.49	754		
	5	17.76	17.72	17.82	968	1400	57.1

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E03D1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Lab Sample ID: 47348.05 Date(s) Analyzed: 09/18/01 09/18/01

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

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

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.54	8.48	8.58	425		
Aroclor-1242	2	9.26	9.21	9.31	132		
	3	10.12	10.08	10.18	414		
COLUMN 1	4	11.16	11.12	11.22	1900		
	5	12.30	12.27	12.37	1640	900	
	1						
	2	9.38	9.34	9.44	157		
	3	10.08	10.04	10.14	446		
COLUMN 2	4	11.26	11.23	11.33	2210		
	5	12.34	12.32	12.42	1520	1100	22.2
	1	10.73	10.67	10.77	2410		
Aroclor-1254	2	11.85	11.81	11.91	583		
	3	12.16	12.13	12.23	455		
COLUMN 1	4	12.94	12.91	13.01	723		
	5	14.18	14.14	14.24	1020	1000	
	1						
	2	12.08	12.05	12.15	957		
	3	13.01	12.98	13.08	970		
COLUMN 2	4	13.45	13.41	13.51	1120		
	5	14.24	14.20	14.30	1340	1100	10.0
	1	12.94	12.90	13.00	1340		
Aroclor-1260	2	13.56	13.53	13.63	408		
	3	14.84	14.79	14.89	497		
COLUMN 1	4	15.40	15.36	15.46	265		
	5	16.20	16.18	16.28	345	570	
	1	13.31	13.27	13.37	538		
	2	14.07	14.03	14.13	681		
	3	15.03	14.99	15.09	178		
COLUMN 2	4	16.42	16.39	16.49	323		
	5	17.75	17.72	17.82	572	460	23.9

At least 3 peaks are required for identification of multicomponent analytes

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E03D1DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Lab Sample ID: 47348.05DL Date(s) Analyzed: 09/19/01 09/19/01

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

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

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.54	8.48	8.58	735		
Aroclor-1242	2	9.26	9.21	9.31	223		
	3	10.14	10.08	10.18	705		
COLUMN 1	4	11.17	11.12	11.22	3590		
	5	12.31	12.27	12.37	2970	1600	
	1						
	2	9.39	9.34	9.44	201		
	3	10.09	10.04	10.14	673		
COLUMN 2	4	11.27	11.23	11.33	3300		
	5	12.35	12.32	12.42	2160	1600	0.0
	1	10.74	10.67	10.77	4870		
Aroclor-1254	2	11.86	11.81	11.91	1120		
	3	12.17	12.13	12.23	880		
COLUMN 1	4	12.95	12.91	13.01	1430		
	5	14.18	14.14	14.24	1720	2000	
	1	10.67	10.62	10.72	3190		
	2	12.09	12.05	12.15	1640		
	3	13.02	12.98	13.08	1540		
COLUMN 2	4	13.45	13.41	13.51	1770		
	5	14.25	14.20	14.30	1990	2000	0.0
	1	12.95	12.90	13.00	2640		
Aroclor-1260	2	13.57	13.53	13.63	736		
	3	14.85	14.79	14.89	813		
COLUMN 1	4	15.40	15.36	15.46	455		
	5	16.20	16.18	16.28	661	1100	
	1	13.32	13.27	13.37	986		
	2	14.08	14.03	14.13	1080		
	3						
COLUMN 2	4	16.43	16.39	16.49	408		
	5	17.76	17.72	17.82	906	850	29.4

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E03D2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Lab Sample ID: 47348.06 Date(s) Analyzed: 09/18/01 09/18/01

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

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

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.54	8.48	8.58	101		
Aroclor-1242	2	9.26	9.21	9.31	30.7		
	3	10.12	10.08	10.18	80.6		
COLUMN 1	4	11.17	11.12	11.22	372		
	5	12.31	12.27	12.37	352	190	
	1						
	2	9.39	9.34	9.44	31.2		
	3	10.08	10.04	10.14	96.7		
COLUMN 2	4	11.27	11.23	11.33	447		
	5	12.35	12.32	12.42	265	210	10.5
	1	10.74	10.67	10.77	508		
Aroclor-1254	2	11.86	11.81	11.91	120		
	3	12.16	12.13	12.23	112		
COLUMN 1	4	12.94	12.91	13.01	147		
	5	14.18	14.14	14.24	207	220	
	1	10.66	10.62	10.72	386		
	2	12.08	12.05	12.15	187		
	3	13.01	12.98	13.08	153		
COLUMN 2	4	13.45	13.41	13.51	189		
	5	14.24	14.20	14.30	335	250	13.6
	1	12.94	12.90	13.00	271		
Aroclor-1260	2	13.57	13.53	13.63	77.1		
	3	14.84	14.79	14.89	116		
COLUMN 1	4	16.19	15.36	15.46	34.7		
	5	16.20	16.18	16.28	45.0	110	
	1	13.31	13.27	13.37	185		
	2	14.07	14.03	14.13	250		
	3						
COLUMN 2	4	16.44	16.39	16.49	76.3		
	5	17.76	17.72	17.82	102	150	36.4

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E03D3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Lab Sample ID: 47348.07 Date(s) Analyzed: 09/18/01 09/18/01

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

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

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.54	8.48	8.58	24.5		
Aroclor-1242	2	9.26	9.21	9.31	17.1		
	3	10.13	10.08	10.18	44.9		
COLUMN 1	4	11.17	11.12	11.22	176		
	5	12.31	12.27	12.37	168	86	
	1						
	2	9.39	9.34	9.44	17.0		
	3	10.08	10.04	10.14	51.0		
COLUMN 2	4	11.27	11.23	11.33	237		
	5	12.35	12.32	12.42	124	110	27.9
	1	10.74	10.67	10.77	249		
Aroclor-1254	2	11.86	11.81	11.91	61.1		
	3	12.17	12.13	12.23	50.3		
COLUMN 1	4	12.94	12.91	13.01	67.9		
	5	14.18	14.14	14.24	95.4	100	
	1	10.66	10.62	10.72	214		
	2	12.08	12.05	12.15	105		
	3	13.01	12.98	13.08	95.6		
COLUMN 2	4	13.45	13.41	13.51	109		
	5	14.24	14.20	14.30	144	130	30.0
	1	12.94	12.90	13.00	125		
Aroclor-1260	2	13.57	13.53	13.63	40.2		
	3	14.84	14.79	14.89	87.9		
COLUMN 1	4	15.39	15.36	15.46	48.2		
	5	16.21	16.18	16.28	20.6	64	
	1	13.31	13.27	13.37	83.9		
	2						
	3	15.03	14.99	15.09	14.8		
COLUMN 2	4	16.42	16.39	16.49	22.3		
	5	17.76	17.72	17.82	19.0	35	82.9

At least 3 peaks are required for identification of multicomponent analytes

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10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E03D4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Lab Sample ID: 47348.08 Date(s) Analyzed: 09/18/01 09/18/01

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

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

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.54	8.48	8.58	27.1		
Aroclor-1242	2	9.26	9.21	9.31	14.7		
	3	10.13	10.08	10.18	39.3		
COLUMN 1	4	11.17	11.12	11.22	175		
	5	12.31	12.27	12.37	139	79	
	1						
	2	9.39	9.34	9.44	19.9		
	3	10.08	10.04	10.14	50.7		
COLUMN 2	4	11.27	11.23	11.33	240		
	5	12.35	12.32	12.42	120	110	39.2
	1	10.74	10.67	10.77	259		
Aroclor-1254	2	11.86	11.81	11.91	62.5		
	3	12.17	12.13	12.23	45.9		
COLUMN 1	4	12.94	12.91	13.01	58.2		
	5	14.18	14.14	14.24	71.0	99	
	1	10.66	10.62	10.72	208		
	2	12.09	12.05	12.15	116		
	3	13.01	12.98	13.08	85.5		
COLUMN 2	4	13.45	13.41	13.51	83.0		
	5	14.24	14.20	14.30	105	120	21.2
	1	12.94	12.90	13.00	108		
Aroclor-1260	2	13.57	13.53	13.63	33.1		
	3						
COLUMN 1	4	15.40	15.36	15.46	23.6		
	5	16.21	16.18	16.28	22.7	47	
	1	13.31	13.27	13.37	65.4		
	2						
	3	15.04	14.99	15.09	35.1		
COLUMN 2	4	16.43	16.39	16.49	13.6		
	5	17.76	17.72	17.82	23.4	34	38.2

At least 3 peaks are required for identification of multicomponent analytes

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E03D5

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Lab Sample ID: 47348.09 Date(s) Analyzed: 09/18/01 09/18/01

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

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

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.54	8.48	8.58	74.1		
Aroclor-1242	2	9.26	9.21	9.31	46.0		
	3	10.12	10.08	10.18	123		
COLUMN 1	4	11.16	11.12	11.22	633		
	5	12.30	12.27	12.37	472	270	
	1						
	2	9.39	9.34	9.44	47.2		
	3	10.08	10.04	10.14	140		
COLUMN 2	4	11.26	11.23	11.33	756		
	5	12.34	12.32	12.42	449	350	29.6
	1						
Aroclor-1254	2	11.85	11.81	11.91	195		
	3	12.16	12.13	12.23	121		
COLUMN 1	4	12.94	12.91	13.01	179		
	5	14.18	14.14	14.24	188	170	
	1						
	2	12.08	12.05	12.15	264		
	3	13.02	12.98	13.08	231		
COLUMN 2	4	13.45	13.41	13.51	246		
	5	14.24	14.20	14.30	261	250	47.1
	1	12.94	12.90	13.00	331		
Aroclor-1260	2	13.57	13.53	13.63	96.3		
	3	14.84	14.79	14.89	98.8		
COLUMN 1	4	15.40	15.36	15.46	45.2		
	5	16.21	16.18	16.28	47.9	120	
	1	13.31	13.27	13.37	111		
	2						
	3	15.03	14.99	15.09	38.8		
COLUMN 2	4	16.42	16.39	16.49	48.5		
	5	17.75	17.72	17.82	58.9	64	87.5

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E03D6

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Lab Sample ID: 47348.10 Date(s) Analyzed: 09/18/01 09/18/01

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

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

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.54	8.48	8.58	154		
Aroclor-1242	2	9.26	9.21	9.31	105		
	3	10.12	10.08	10.18	275		
COLUMN 1	4	11.16	11.12	11.22	905		
	5	12.31	12.27	12.37	851	460	
	1						
	2	9.39	9.34	9.44	133		
	3	10.08	10.04	10.14	319		
COLUMN 2	4	11.27	11.23	11.33	1090		
	5	12.35	12.32	12.42	815	590	28.3
	1	10.74	10.67	10.77	1360		
Aroclor-1254	2	11.86	11.81	11.91	324		
	3	12.16	12.13	12.23	285		
COLUMN 1	4	12.94	12.91	13.01	445		
	5	14.18	14.14	14.24	587	600	
	1	10.66	10.62	10.72	1160		
	2	12.08	12.05	12.15	629		
	3	13.02	12.98	13.08	568		
COLUMN 2	4	13.45	13.41	13.51	653		
	5	14.24	14.20	14.30	688	740	23.3
	1	12.94	12.90	13.00	823		
Aroclor-1260	2	13.57	13.53	13.63	281		
	3	14.84	14.79	14.89	279		
COLUMN 1	4	15.40	15.36	15.46	147		
	5	16.22	16.18	16.28	162	340	
	1	13.31	13.27	13.37	308		
	2						
	3	15.03	14.99	15.09	115		
COLUMN 2	4	16.42	16.39	16.49	166		
	5	17.76	17.72	17.82	174	190	78.9

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E03D6DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Lab Sample ID: 47348.10DL Date(s) Analyzed: 09/19/01 09/19/01

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

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

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.54	8.48	8.58	286		
Aroclor-1242	2	9.26	9.21	9.31	168		
	3	10.14	10.08	10.18	437		
COLUMN 1	4	11.17	11.12	11.22	1530		
	5	12.32	12.27	12.37	1510	790	
	1						
	2	9.39	9.34	9.44	145		
	3	10.10	10.04	10.14	420		
COLUMN 2	4	11.28	11.23	11.33	1470		
	5	12.36	12.32	12.42	1090	780	1.3
	1	10.75	10.67	10.77	2560		
Aroclor-1254	2	11.87	11.81	11.91	555		
	3	12.18	12.13	12.23	539		
COLUMN 1	4	12.95	12.91	13.01	755		
	5	14.19	14.14	14.24	988	1100	
	1	10.67	10.62	10.72	1780		
	2	12.09	12.05	12.15	1000		
	3	13.03	12.98	13.08	1020		
COLUMN 2	4	13.46	13.41	13.51	1010		
	5	14.25	14.20	14.30	1080	1200	9.1
	1	12.95	12.90	13.00	1390		
Aroclor-1260	2	13.57	13.53	13.63	467		
	3	14.85	14.79	14.89	442		
COLUMN 1	4	15.41	15.36	15.46	272		
	5	16.22	16.18	16.28	237	560	
	1	13.33	13.27	13.37	518		
	2	14.08	14.03	14.13	538		
	3						
COLUMN 2	4	16.44	16.39	16.49	241		
	5	17.76	17.72	17.82	227	380	47.4

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E03D7

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Lab Sample ID: 47348.11 Date(s) Analyzed: 09/18/01 09/18/01

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

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

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.54	8.48	8.58	777		
Aroclor-1242	2	9.26	9.21	9.31	458		
	3	10.12	10.08	10.18	1610		
COLUMN 1	4	11.16	11.12	11.22	8490		
	5	12.30	12.27	12.37	6670	3600	
	1						
	2	9.39	9.34	9.44	624		
	3	10.08	10.04	10.14	1850		
COLUMN 2	4	11.26	11.23	11.33	9950		
	5	12.34	12.32	12.42	7000	4900	36.1
	1	10.74	10.67	10.77	10300		
Aroclor-1254	2	11.86	11.81	11.91	2390		
	3	12.16	12.13	12.23	1450		
COLUMN 1	4	12.94	12.91	13.01	2520		
	5	14.18	14.14	14.24	3030	3900	
	1	10.66	10.62	10.72	8200		
	2	12.08	12.05	12.15	3100		
	3	13.02	12.98	13.08	3250		
COLUMN 2	4	13.45	13.41	13.51	3410		
	5	14.24	14.20	14.30	3430	4300	10.3
	1	12.94	12.90	13.00	4660		
Aroclor-1260	2	13.57	13.53	13.63	1310		
	3	14.84	14.79	14.89	1340		
COLUMN 1	4	15.40	15.36	15.46	747		
	5	16.22	16.18	16.28	802	1800	
	1	13.32	13.27	13.37	1520		
	2	14.07	14.03	14.13	1710		
	3	15.03	14.99	15.09	536		
COLUMN 2	4	16.43	16.39	16.49	917		
	5	17.76	17.72	17.82	960	1100	63.6

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E03D7DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Lab Sample ID: 47348.11DL Date(s) Analyzed: 09/19/01 09/19/01

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

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

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.54	8.48	8.58	1100		
Aroclor-1242	2	9.26	9.21	9.31	746		
	3	10.14	10.08	10.18	2820		
COLUMN 1	4	11.17	11.12	11.22	15700		
	5	12.32	12.27	12.37	11600	6400	
	1						
	2	9.39	9.34	9.44	792		
	3	10.10	10.04	10.14	2770		
COLUMN 2	4	11.27	11.23	11.33	15100		
	5	12.36	12.32	12.42	9680	7100	10.9
	1	10.75	10.67	10.77	19900		
Aroclor-1254	2	11.87	11.81	11.91	3850		
	3	12.17	12.13	12.23	2890		
COLUMN 1	4	12.95	12.91	13.01	4880		
	5	14.19	14.14	14.24	4950	7300	
	1	10.67	10.62	10.72	13600		
	2	12.09	12.05	12.15	5620		
	3	13.02	12.98	13.08	5170		
COLUMN 2	4	13.46	13.41	13.51	5450		
	5	14.25	14.20	14.30	5260	7000	4.3
	1	12.95	12.90	13.00	9020		
Aroclor-1260	2	13.57	13.53	13.63	2400		
	3	14.85	14.79	14.89	2180		
COLUMN 1	4	15.41	15.36	15.46	1190		
	5	16.22	16.18	16.28	1360	3200	
	1	13.32	13.27	13.37	2760		
	2	14.08	14.03	14.13	3070		
	3						
COLUMN 2	4	16.43	16.39	16.49	1180		
	5	17.76	17.72	17.82	1310	2100	52.4

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E03D8

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Lab Sample ID: 47348.12 Date(s) Analyzed: 09/18/01 09/18/01

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

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

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.54	8.48	8.58	345		
Aroclor-1242	2	9.26	9.21	9.31	84.2		
	3	10.12	10.08	10.18	317		
COLUMN 1	4	11.16	11.12	11.22	1370		
	5	12.30	12.27	12.37	1290	680	
	1						
	2	9.38	9.34	9.44	102		
	3	10.08	10.04	10.14	330		
COLUMN 2	4	11.26	11.23	11.33	1520		
	5	12.34	12.32	12.42	1200	790	16.2
	1	10.73	10.67	10.77	1890		
Aroclor-1254	2	11.85	11.81	11.91	515		
	3	12.16	12.13	12.23	399		
COLUMN 1	4	12.94	12.91	13.01	686		
	5	14.17	14.14	14.24	912	880	
	1						
	2	12.08	12.05	12.15	828		
	3	13.01	12.98	13.08	858		
COLUMN 2	4	13.45	13.41	13.51	956		
	5	14.24	14.20	14.30	1070	930	5.7
	1						
Aroclor-1260	2	13.56	13.53	13.63	387		
	3	14.84	14.79	14.89	438		
COLUMN 1	4	15.40	15.36	15.46	244		
	5	16.21	16.18	16.28	271	340	
	1	13.32	13.27	13.37	500		
	2	14.07	14.03	14.13	563		
	3	15.03	14.99	15.09	147		
COLUMN 2	4	16.42	16.39	16.49	273		
	5	17.75	17.72	17.82	318	360	5.9

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E03D8DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Lab Sample ID: 47348.12DL Date(s) Analyzed: 09/19/01 09/19/01

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

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

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.54	8.48	8.58	448		
Aroclor-1242	2	9.26	9.21	9.31	102		
	3	10.13	10.08	10.18	449		
COLUMN 1	4	11.17	11.12	11.22	2070		
	5	12.32	12.27	12.37	1920	1000	
	1						
	2	9.39	9.34	9.44	107		
	3	10.09	10.04	10.14	434		
COLUMN 2	4	11.27	11.23	11.33	2010		
	5	12.35	12.32	12.42	1510	1000	0.0
	1	10.74	10.67	10.77	2970		
Aroclor-1254	2	11.86	11.81	11.91	794		
	3	12.17	12.13	12.23	638		
COLUMN 1	4	12.95	12.91	13.01	1010		
	5	14.18	14.14	14.24	1360	1400	
	1	10.67	10.62	10.72	2100		
	2	12.09	12.05	12.15	1150		
	3	13.02	12.98	13.08	1200		
COLUMN 2	4	13.45	13.41	13.51	1330		
	5	14.24	14.20	14.30	1480	1500	7.1
	1	12.95	12.90	13.00	1870		
Aroclor-1260	2	13.57	13.53	13.63	599		
	3	14.85	14.79	14.89	631		
COLUMN 1	4	15.40	15.36	15.46	327		
	5	16.21	16.18	16.28	424	770	
	1	13.32	13.27	13.37	727		
	2	14.08	14.03	14.13	809		
	3						
COLUMN 2	4	16.43	16.39	16.49	344		
	5	17.76	17.72	17.82	389	570	35.1

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E03D9

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Lab Sample ID: 47348.13 Date(s) Analyzed: 09/18/01 09/18/01

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

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

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.53	8.48	8.58	37.1		
Aroclor-1242	2	9.26	9.21	9.31	38.9		
	3	10.13	10.08	10.18	58.4		
COLUMN 1	4	11.17	11.12	11.22	113		
	5	12.31	12.27	12.37	90.1	68	
	1	8.57	8.52	8.62	26.5		
	2	9.39	9.34	9.44	33.6		
	3	10.06	10.04	10.14	77.7		
COLUMN 2	4	11.27	11.23	11.33	119		
	5	12.35	12.32	12.42	67.6	65	4.6
	1	10.74	10.67	10.77	159		
Aroclor-1254	2	11.86	11.81	11.91	37.7		
	3	12.17	12.13	12.23	28.6		
COLUMN 1	4	12.94	12.91	13.01	38.6		
	5	14.18	14.14	14.24	45.3	62	
	1	10.66	10.62	10.72	121		
	2	12.09	12.05	12.15	56.3		
	3	13.02	12.98	13.08	45.5		
COLUMN 2	4	13.45	13.41	13.51	50.4		
	5	14.24	14.20	14.30	191	93	50.0
	1	12.94	12.90	13.00	71.4		
Aroclor-1260	2	13.57	13.53	13.63	21.3		
	3	14.84	14.79	14.89	20.1		
COLUMN 1	4	15.40	15.36	15.46	12.2		
	5					31	
	1	13.32	13.27	13.37	28.4		
	2	14.06	14.03	14.13	45.2		
	3						
COLUMN 2	4	16.42	16.39	16.49	9.2		
	5	17.76	17.72	17.82	13.7	24	29.2

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E03E0

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Lab Sample ID: 47348.14 Date(s) Analyzed: 09/18/01 09/18/01

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

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

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.54	8.48	8.58	28.6		
Aroclor-1242	2						
	3	10.13	10.08	10.18	15.3		
COLUMN 1	4	11.17	11.12	11.22	78.0		
	5	12.32	12.27	12.37	71.2	48	
	1						
	2						
	3	10.06	10.04	10.14	28.2		
COLUMN 2	4	11.27	11.23	11.33	79.0		
	5	12.35	12.32	12.42	46.3	51	6.3
	1	10.74	10.67	10.77	123		
Aroclor-1254	2	11.86	11.81	11.91	28.7		
	3	12.17	12.13	12.23	24.7		
COLUMN 1	4	12.95	12.91	13.01	34.6		
	5	14.18	14.14	14.24	41.4	50	
	1	10.67	10.62	10.72	84.3		
	2	12.09	12.05	12.15	41.4		
	3	13.02	12.98	13.08	44.9		
COLUMN 2	4	13.46	13.41	13.51	43.0		
	5	14.24	14.20	14.30	45.3	52	4.0
	1						
Aroclor-1260	2	13.57	13.53	13.63	17.1		
	3	14.85	14.79	14.89	18.3		
COLUMN 1	4	15.40	15.36	15.46	6.9		
	5	16.22	16.18	16.28	9.6	13	
	1	13.32	13.27	13.37	20.4		
	2						
	3	15.03	14.99	15.09	5.0		
COLUMN 2	4	16.43	16.39	16.49	10.7		
	5	17.76	17.72	17.82	7.3	11	18.2

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E03E1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Lab Sample ID: 47348.15 Date(s) Analyzed: 09/18/01 09/18/01

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

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

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.54	8.48	8.58	23.9		
Aroclor-1242	2						
	3	10.13	10.08	10.18	15.9		
COLUMN 1	4	11.17	11.12	11.22	85.3		
	5	12.32	12.27	12.37	74.7	50	
	1						
	2						
	3	10.06	10.04	10.14	28.1		
COLUMN 2	4	11.27	11.23	11.33	84.7		
	5	12.36	12.32	12.42	51.9	55	10.0
	1	10.74	10.67	10.77	134		
Aroclor-1254	2	11.87	11.81	11.91	30.6		
	3	12.17	12.13	12.23	25.7		
COLUMN 1	4	12.95	12.91	13.01	37.1		
	5	14.18	14.14	14.24	45.3	55	
	1	10.67	10.62	10.72	89.9		
	2	12.09	12.05	12.15	43.9		
	3	13.03	12.98	13.08	44.4		
COLUMN 2	4	13.45	13.41	13.51	46.0		
	5	14.25	14.20	14.30	42.9	53	3.8
	1	12.95	12.90	13.00	68.5		
Aroclor-1260	2	13.57	13.53	13.63	21.8		
	3	14.85	14.79	14.89	21.3		
COLUMN 1	4	15.41	15.36	15.46	15.0		
	5	16.22	16.18	16.28	15.4	28	
	1	13.32	13.27	13.37	22.1		
	2						
	3	15.04	14.99	15.09	9.4		
COLUMN 2	4	16.43	16.39	16.49	8.6		
	5	17.76	17.72	17.82	7.3	12	133

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E03E2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Lab Sample ID: 47348.16 Date(s) Analyzed: 09/18/01 09/18/01

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

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

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.54	8.48	8.58	33.0		
Aroclor-1242	2						
	3	10.13	10.08	10.18	18.9		
COLUMN 1	4	11.17	11.12	11.22	90.1		
	5	12.32	12.27	12.37	79.3	55	
	1						
	2						
	3	10.06	10.04	10.14	29.1		
COLUMN 2	4	11.27	11.23	11.33	90.1		
	5	12.36	12.32	12.42	57.0	59	7.3
	1	10.74	10.67	10.77	144		
Aroclor-1254	2	11.87	11.81	11.91	34.4		
	3	12.17	12.13	12.23	28.1		
COLUMN 1	4	12.95	12.91	13.01	38.6		
	5	14.18	14.14	14.24	38.7	57	
	1	10.67	10.62	10.72	99.8		
	2	12.09	12.05	12.15	49.0		
	3	13.02	12.98	13.08	44.6		
COLUMN 2	4	13.46	13.41	13.51	46.4		
	5	14.25	14.20	14.30	49.1	58	1.8
	1						
Aroclor-1260	2	13.57	13.53	13.63	21.8		
	3	14.85	14.79	14.89	26.6		
COLUMN 1	4	15.40	15.36	15.46	8.1		
	5	16.22	16.18	16.28	12.2	17	
	1	13.32	13.27	13.37	23.9		
	2	14.07	14.03	14.13	23.8		
	3	15.04	14.99	15.09	8.6		
COLUMN 2	4	16.43	16.39	16.49	7.7		
	5	17.76	17.72	17.82	6.9	14	21.4

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E03E3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Lab Sample ID: 47348.17 Date(s) Analyzed: 09/18/01 09/18/01

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

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

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.53	8.48	8.58	79.2		
Aroclor-1242	2	9.26	9.21	9.31	158		
	3	10.12	10.08	10.18	225		
COLUMN 1	4	11.17	11.12	11.22	311		
	5	12.31	12.27	12.37	205	200	
	1	8.57	8.52	8.62	88.6		
	2	9.39	9.34	9.44	157		
	3	10.08	10.04	10.14	234		
COLUMN 2	4	11.27	11.23	11.33	332		
	5	12.35	12.32	12.42	185	200	0.0
	1	10.74	10.67	10.77	338		
Aroclor-1254	2	11.85	11.81	11.91	90.7		
	3	12.16	12.13	12.23	47.6		
COLUMN 1	4	12.94	12.91	13.01	71.1		
	5	14.18	14.14	14.24	76.4	120	
	1						
	2	12.08	12.05	12.15	90.5		
	3	13.02	12.98	13.08	81.4		
COLUMN 2	4	13.45	13.41	13.51	78.6		
	5	14.24	14.20	14.30	76.3	82	46.3
	1						
Aroclor-1260	2	13.57	13.53	13.63	34.8		
	3	14.84	14.79	14.89	34.3		
COLUMN 1	4	15.40	15.36	15.46	17.4		
	5	16.21	16.18	16.28	17.2	26	
	1	13.32	13.27	13.37	43.9		
	2						
	3	15.03	14.99	15.09	10.8		
COLUMN 2	4	16.42	16.39	16.49	15.5		
	5	17.75	17.72	17.82	16.0	22	18.2

At least 3 peaks are required for identification of multicomponent analytes

page 1 of 1

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E03E4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Lab Sample ID: 47348.18 Date(s) Analyzed: 09/18/01 09/18/01

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

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

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.53	8.48	8.58	11.8		
Aroclor-1242	2	9.26	9.21	9.31	10.0		
	3	10.12	10.08	10.18	13.5		
COLUMN 1	4	11.17	11.12	11.22	46.7		
	5	12.31	12.27	12.37	37.4	24	
	1	8.54	8.52	8.62	18.7		
	2	9.39	9.34	9.44	14.1		
	3	10.06	10.04	10.14	33.0		
COLUMN 2	4	11.27	11.23	11.33	51.8		
	5	12.35	12.32	12.42	27.7	29	20.8
	1	10.71	10.67	10.77	46.5		
Aroclor-1254	2	11.86	11.81	11.91	29.7		
	3	12.17	12.13	12.23	11.3		
COLUMN 1	4	12.94	12.91	13.01	9.3		
	5	14.18	14.14	14.24	12.0	22	
	1	10.66	10.62	10.72	46.9		
	2	12.08	12.05	12.15	19.4		
	3	13.01	12.98	13.08	14.4		
COLUMN 2	4	13.45	13.41	13.51	23.9		
	5	14.24	14.20	14.30	22.9	26	18.2
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

page 1 of 1

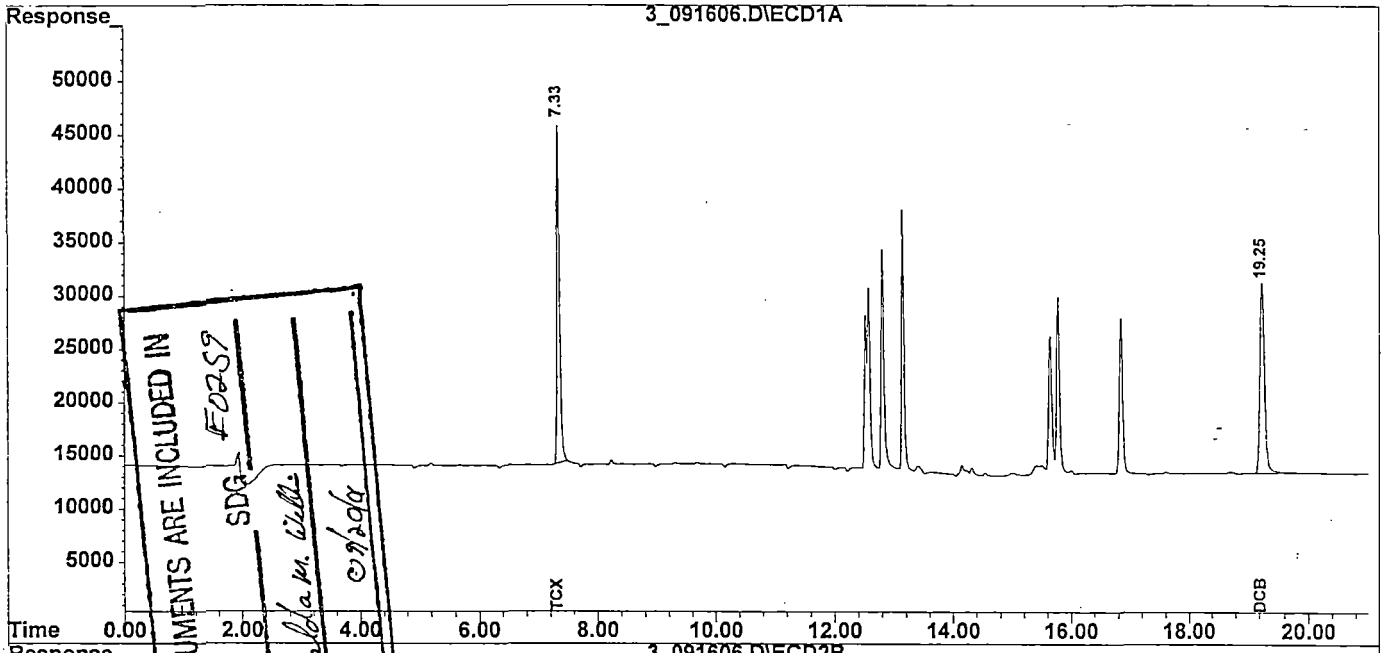
FORM X PCB

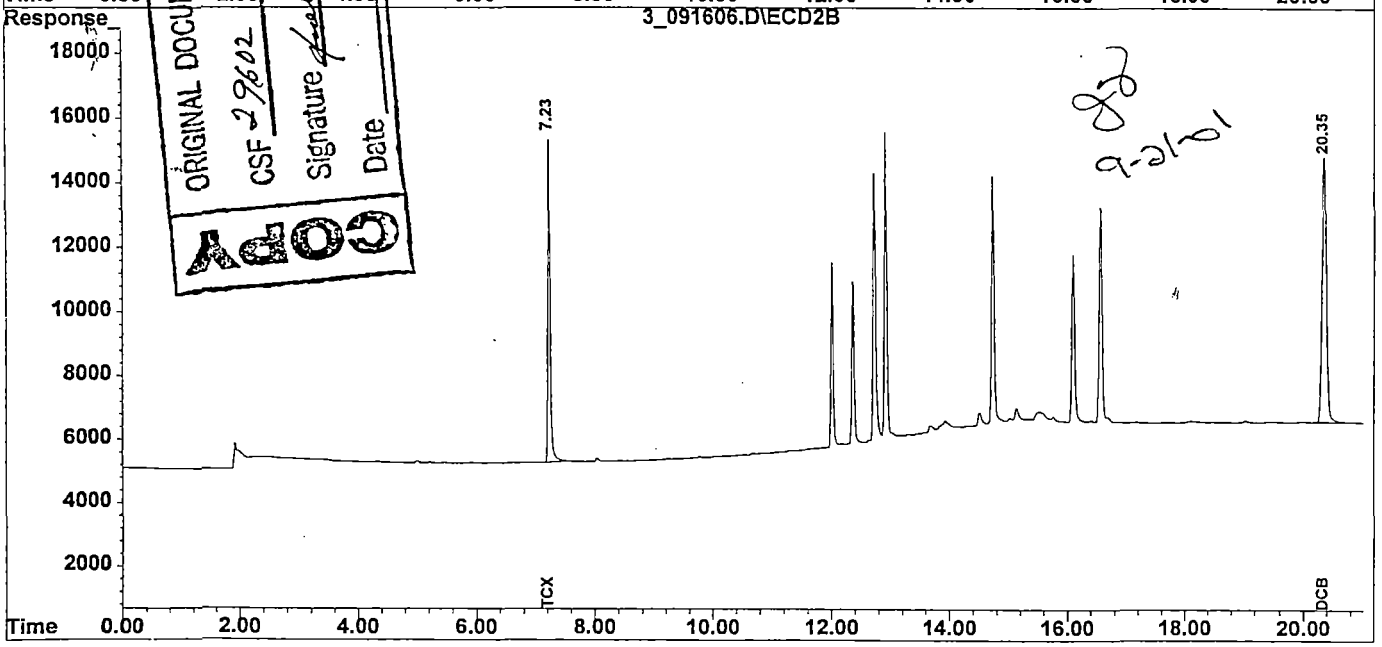
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091606.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091606.D\ECD2B.CH
Acq On : 16 Sep 2001 13:03 Operator: DDC
Sample : RESC3E Inst : HP_03
Misc : 5-171-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 9:48 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





ORIGINAL DOCUMENTS ARE INCLUDED IN
SDG E0259
CSF 29602
Signature
Date 09/20/01
COPY

9-21-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091606.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091606.D\ECD2B.CH
Acq On : 16 Sep 2001 13:03 Operator: DDC
Sample : RESC3E Inst : HP_03
Misc : 5-171-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 9:48 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.34	7.23	1030565	294835	32.5	25.5
22)	S DCB	19.25	20.35	974287	429721	23.2	21.5
	Target Compounds:						

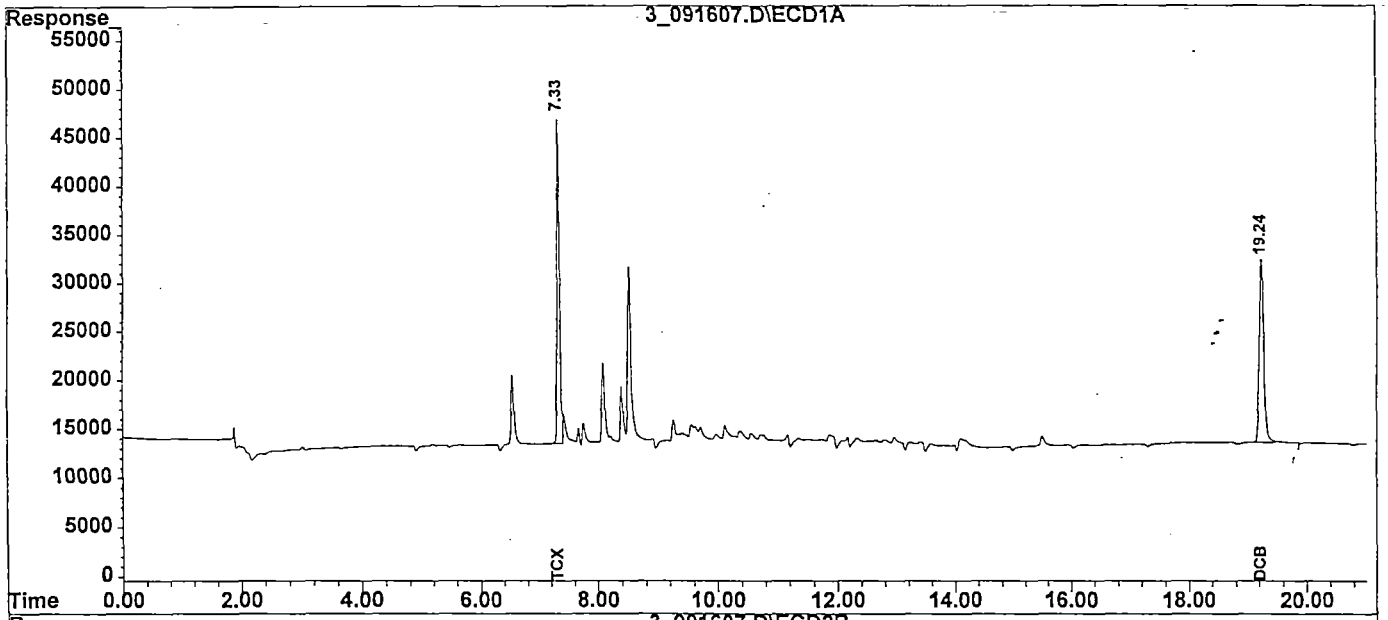
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

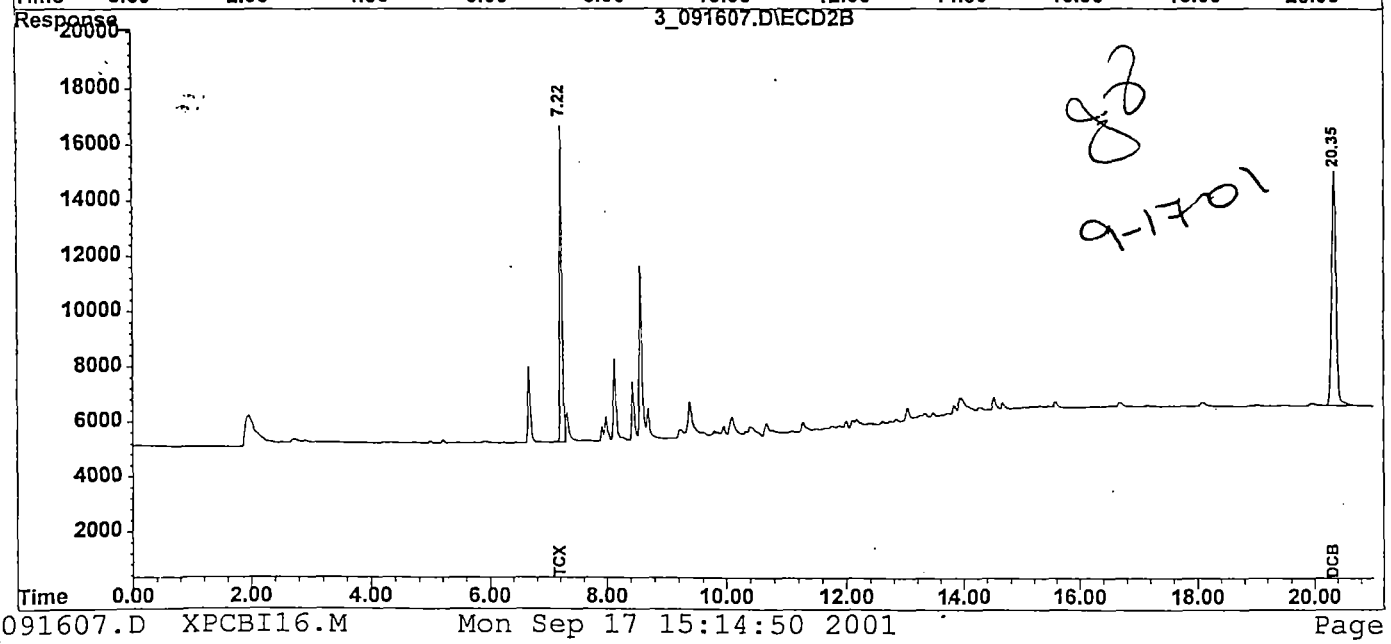
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091607.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091607.D\ECD2B.CH
Acq On : 16 Sep 2001 13:29 Operator: DDC
Sample : AR1221L33E Inst : HP_03
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 15:04 2001 Quant Results File: XPCBI16.RES
Quant Time: Sep 17 15:04 2001 Quant Results File: xspcbi16.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001

Multi-Component Method : f:\hpchem\hp\3\data\09_16_01\xspcbi16.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





8
9-1701

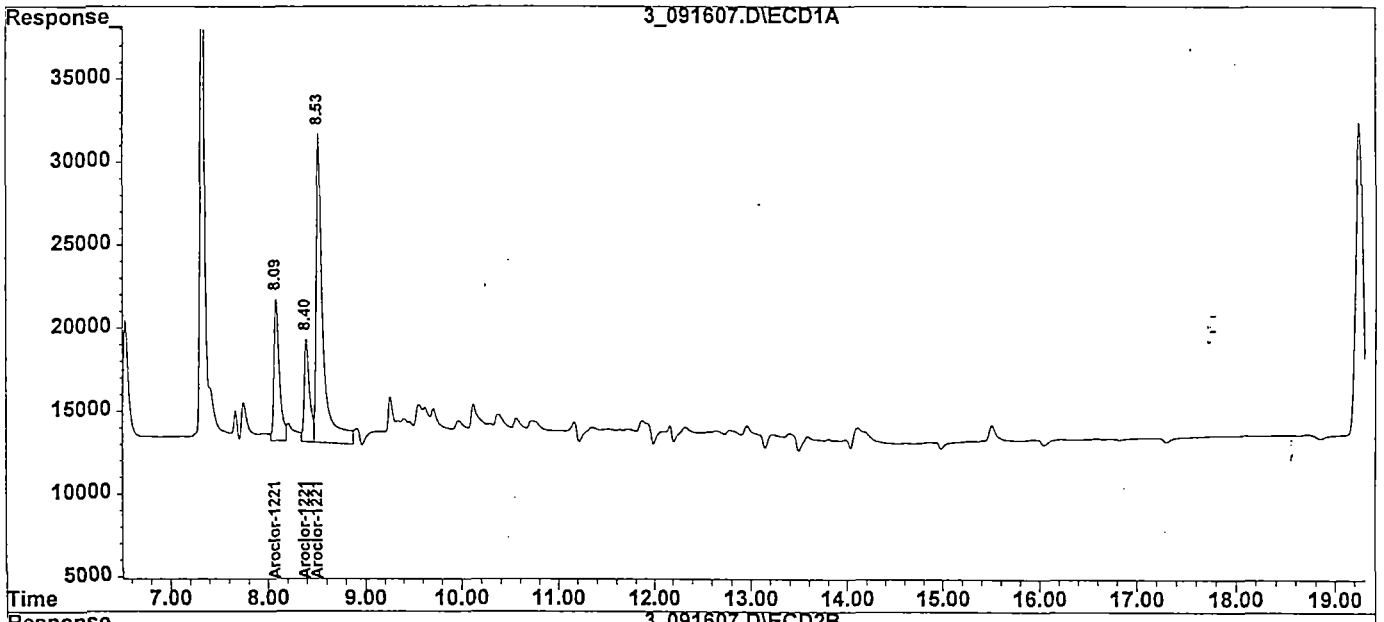
291A

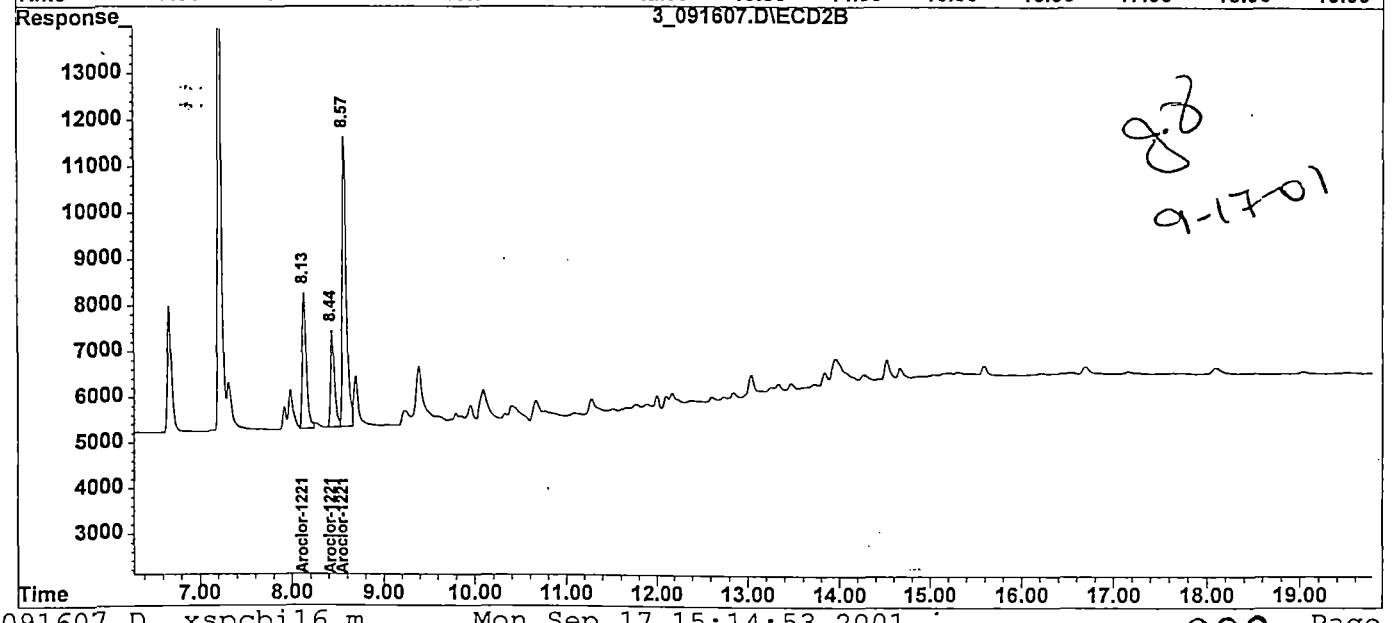
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091607.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091607.D\ECD2B.CH
Acq On : 16 Sep 2001 13:29 Operator: DDC
Sample : AR1221L33E Inst : HP_03
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 15:04 2001 Quant Results File: xspcbi16.RES
Quant Time: Sep 17 15:04 2001 Quant Results File: xspcbi16.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001

Multi-Component Method : f:\hpchem\hp\3\data\09_16_01\xspcbi16.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





8.8
9-17-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091607.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091607.D\ECD2B.CH
Acq On : 16 Sep 2001 13:29 Operator: DDC
Sample : AR1221L33E Inst : HP_03
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 15:04 2001 Quant Results File: XPCBI16.RES
Multi Time: Sep 17 15:04 2001 Quant Results File: xspcbi16.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001

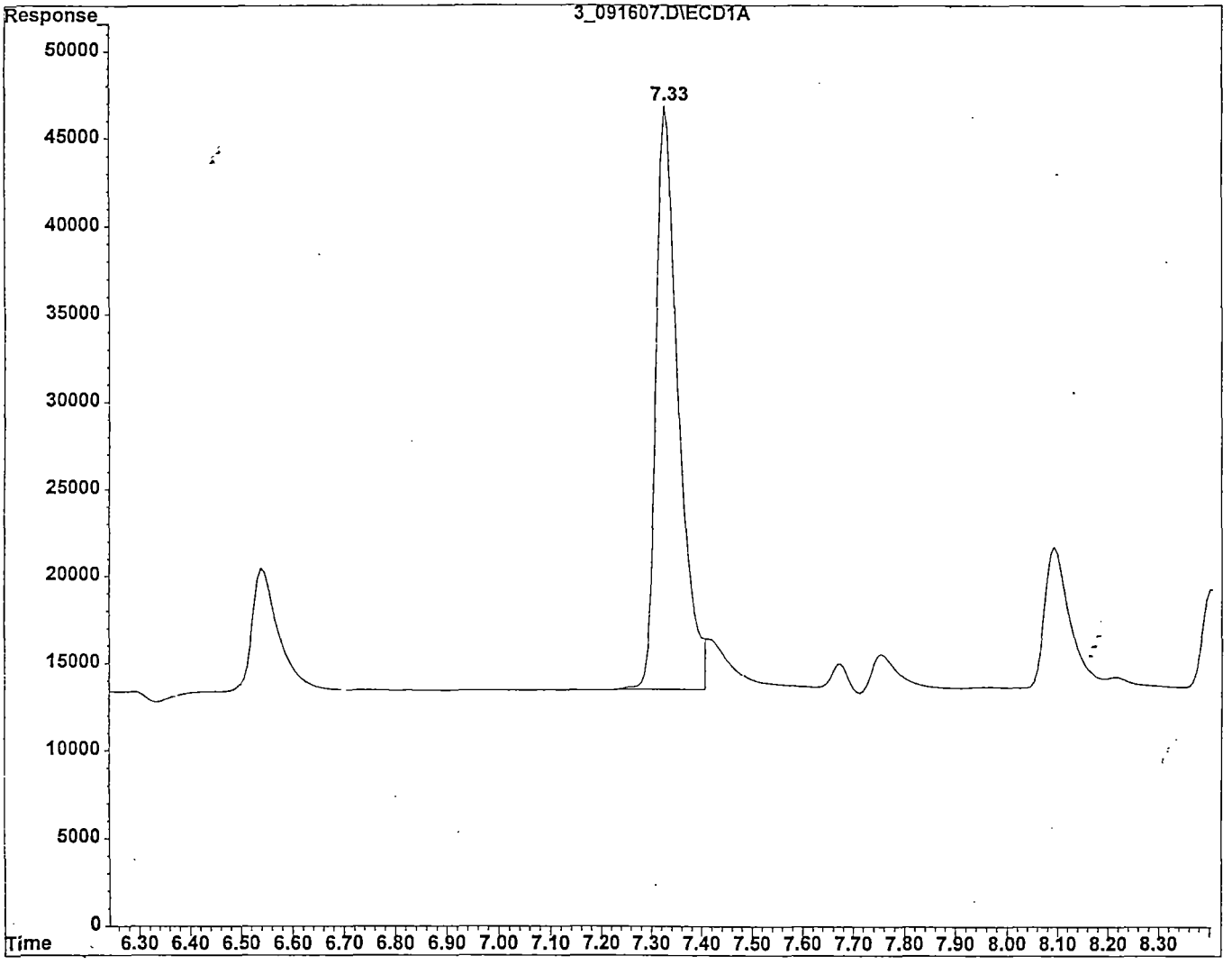
Multi-Component Method : f:\hpchem\hp\3\data\09_16_01\xspcbi16.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.33	7.22	1033451	299095	19.0m BTB	18.5	
22)	S DCB	19.24	20.35	994436	451721	17.7m BTB	18.4	
	Target Compounds:							
	Multi-Component Compounds:							
2)	L2 Aroclor-1221	8.10	8.14	324641	90687	808.5	543.2	#
3)	L2 Aroclor-1221 {2}	8.40	8.44	233768	63169	842.7	573.5	#
4)	L2 Aroclor-1221 {3}	8.53	8.57	890866	198638	785.2	535.0	#
	Sum Aroclor-1221			1449275	352495	2436.4	1651.8	
	Average Aroclor-1221					812.119	550.587	

(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\3\DATA\09_16_01\3_091607.D
Date Acquired: 16 Sep 2001 13:29
Inst: HP_03 Operator ID: DDC
Name: AR1221L33E
Misc: 5-420-6
Method: F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 17 15:04 2001 Quant Results File: XPCBI16.RES



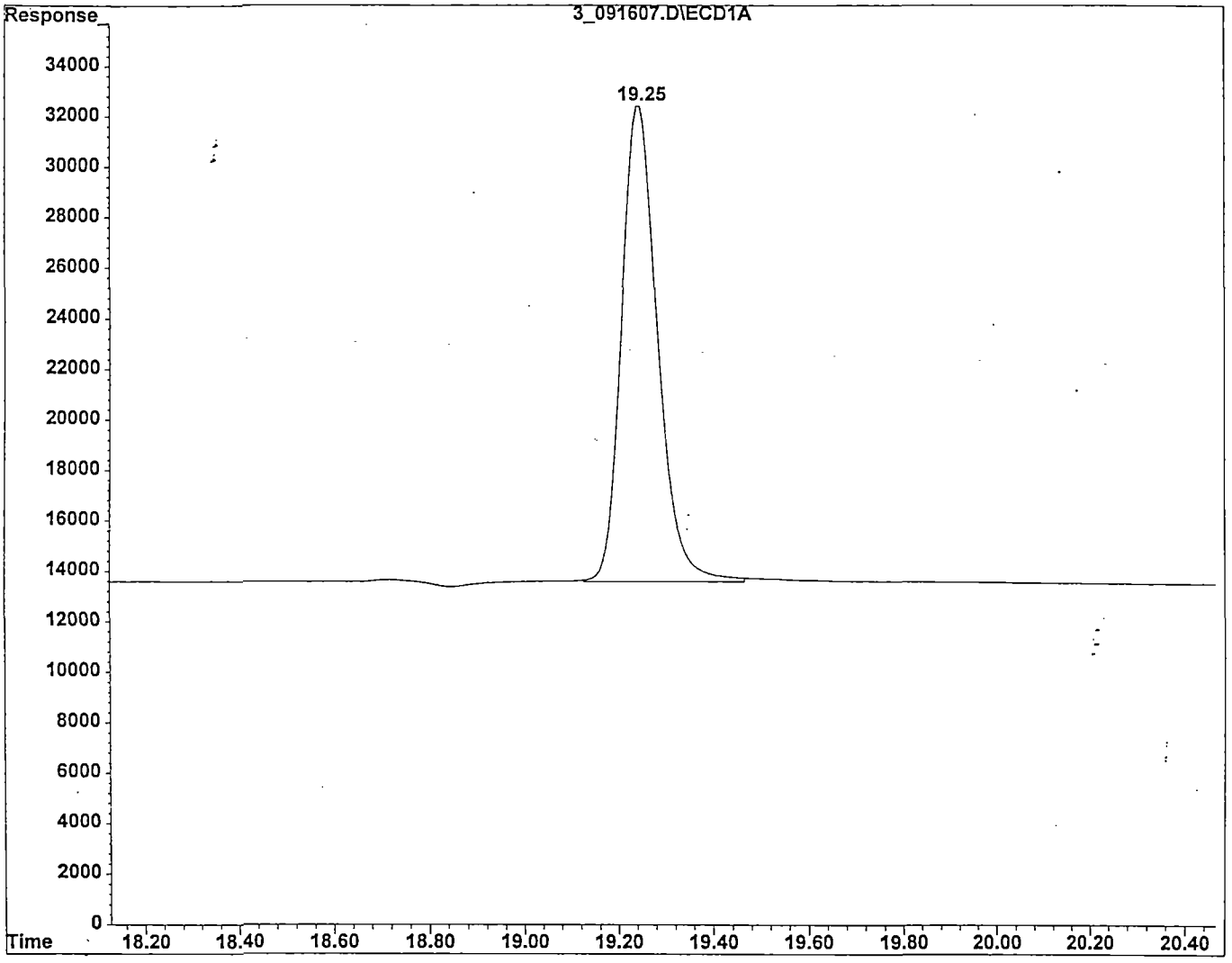
TCX 7.33min area: 1033451 m BTB

Integration Time Range: 7.24 - 7.40 091701

F:\HPCHEM\HP\3\DATA\09_16_01\3_091607.D
Report generated: Mon Sep 17 15:33:47 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_16_01\3_091607.D
Date Acquired: 16 Sep 2001 13:29
Inst: HP_03 Operator ID: DDC
Name: AR1221L33E
Misc: 5-420-6
Method: F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 17 15:04 2001 Quant Results File: XPCBI16.RES



DCB 19.24min area: 994436 m BTB 091701

Integration Time Range: 19.13 - 19.46

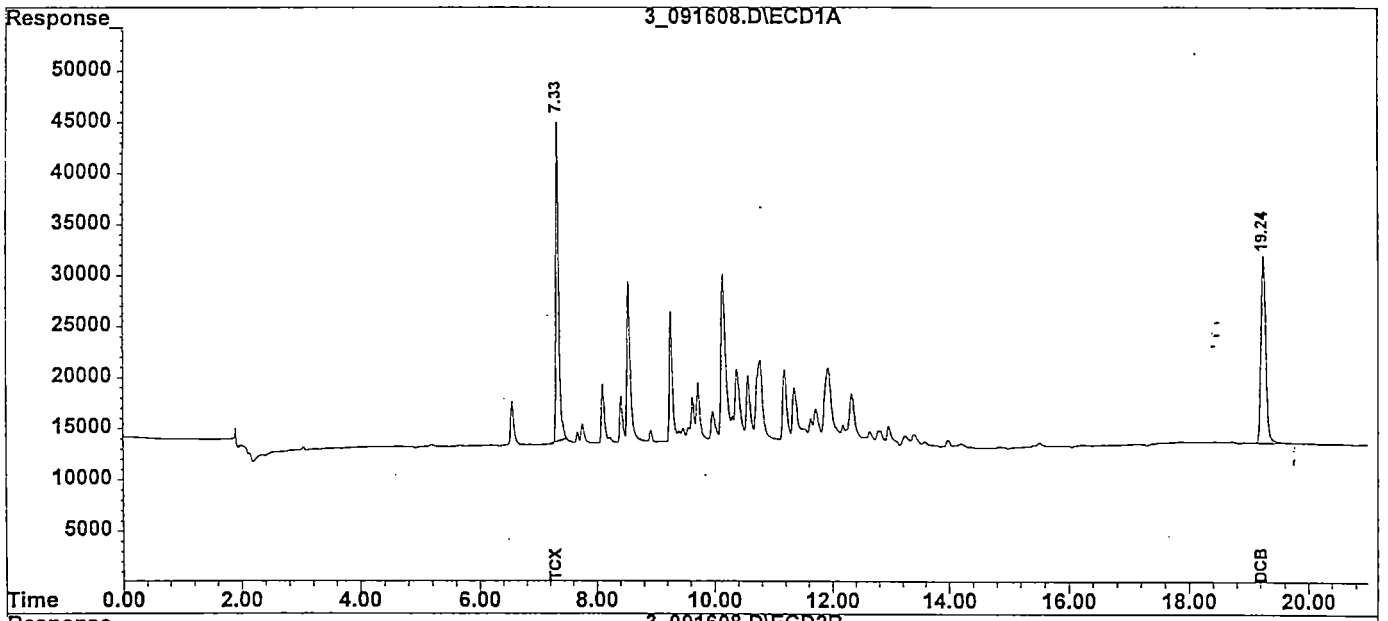
F:\HPCHEM\HP\3\DATA\09_16_01\3_091607.D
Report generated: Mon Sep 17 15:33:48 2001

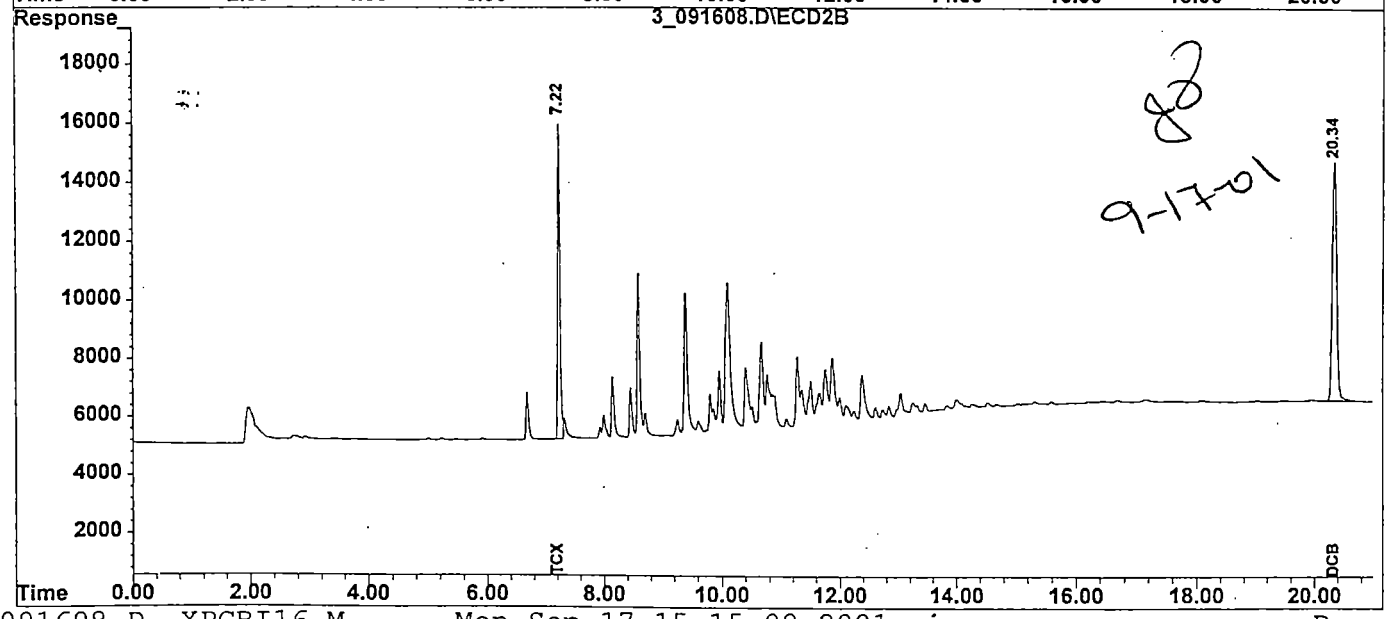
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091608.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091608.D\ECD2B.CH
Acq On : 16 Sep 2001 13:55 Operator: DDC
Sample : AR1232L33E Inst : HP_03
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 15:05 2001 Quant Results File: XPCBI16.RES
Quant Time: Sep 17 15:09 2001 Quant Results File: xspcbi16.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001

Multi-Component Method : f:\hpchem\hp\3\data\09_16_01\xspcbi16.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





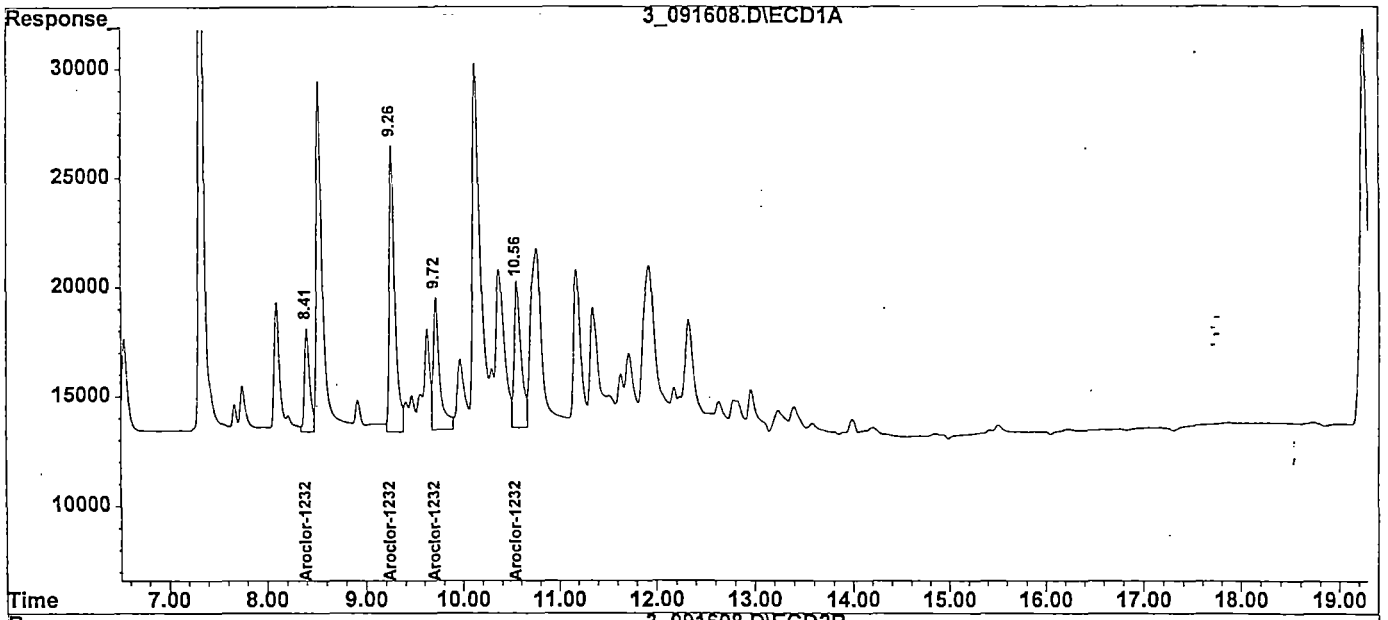
8
9-17-01

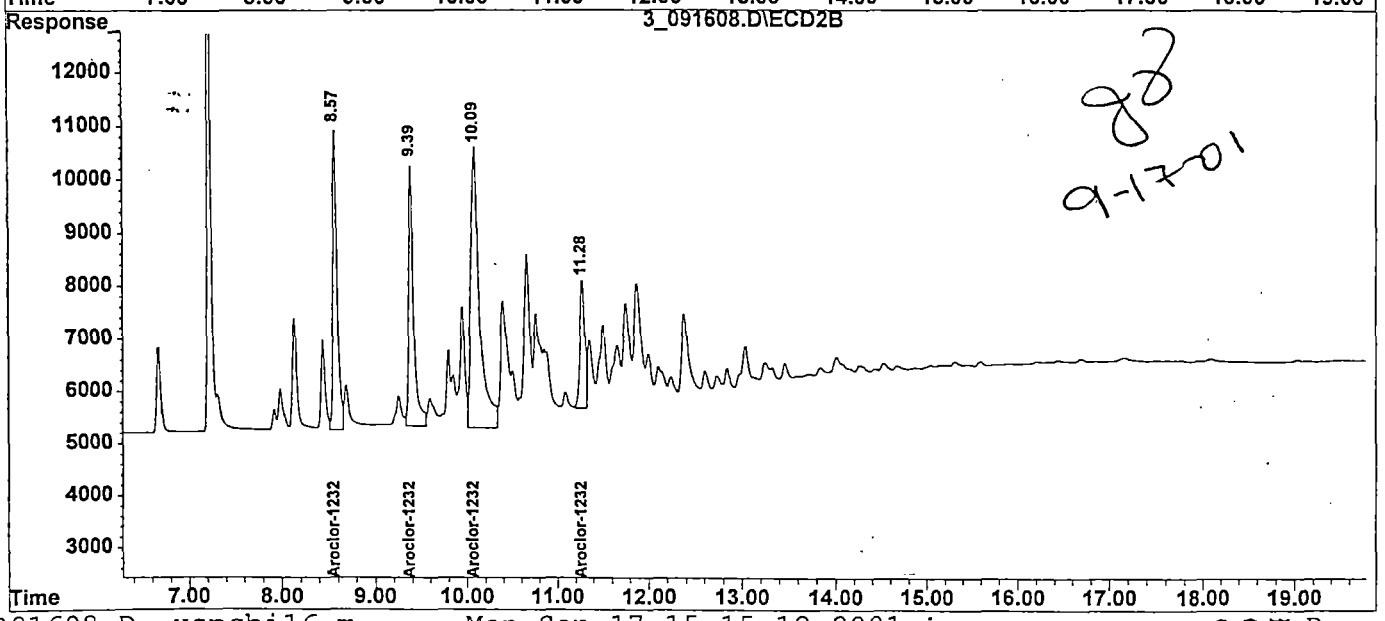
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091608.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091608.D\ECD2B.CH
Acq On : 16 Sep 2001 13:55 Operator: DDC
Sample : AR1232L33E Inst : HP_03
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 15:09 2001 Quant Results File: xspcbi16.RES
Quant Time: Sep 17 15:09 2001 Quant Results File: xspcbi16.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001

Multi-Component Method : f:\hpchem\hp\3\data\09_16_01\xspcbi16.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





gg
9-17-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091608.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091608.D\ECD2B.CH
Acq On : 16 Sep 2001 13:55 Operator: DDC
Sample : AR1232L33E Inst : HP_03
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 15:05 2001 Quant Results File: XPCBI16.RES
Multi Time: Sep 17 15:09 2001 Quant Results File: xspcbi16.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001

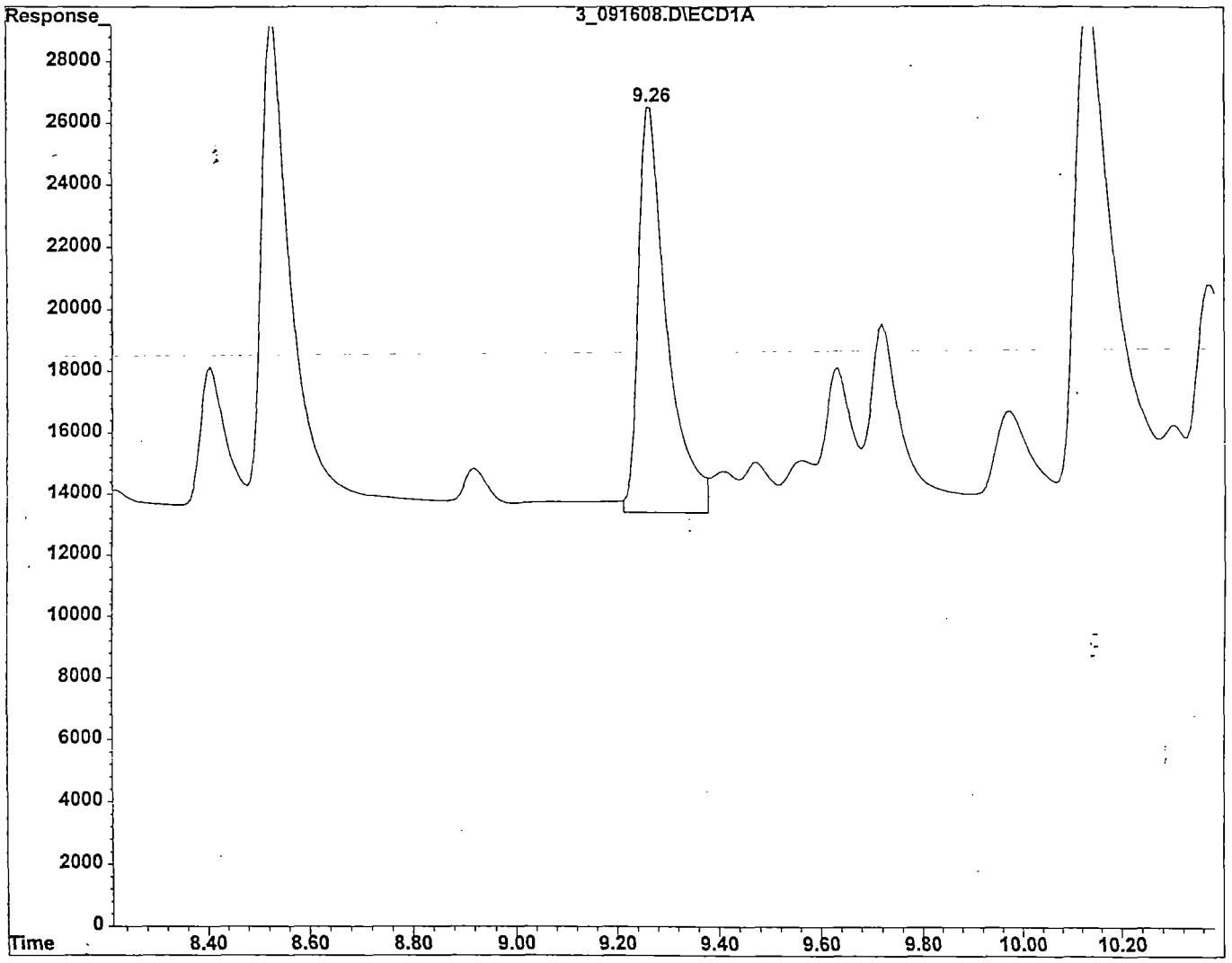
Multi-Component Method : f:\hpchem\hp\3\data\09_16_01\xspcbi16.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	1026319	293385	18.9	18.1
22)	S DCB	19.24	20.35	1004385	438886	17.9	17.9
	Target Compounds:						
	Multi-Component Compounds:						
5)	L3 Aroclor-1232	8.41	8.57f	172904	185720	795.2	2207.1m # BTB 091701
6)	L3 Aroclor-1232 {2}	9.26	9.39f	510200	194204	692.0m BTB 091701	1474.5m #
7)	L3 Aroclor-1232 {3}	9.72	10.09f	273196	359012	836.9m	2204.3m #
8)	L3 Aroclor-1232 {4}	10.56	11.28f	334288	92068	851.1m	660.9m
	Sum Aroclor-1232			1290588	831004	3175.2	6546.8
	Average Aroclor-1232					793.808	1636.702

(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\3\DATA\09_16_01\3_091608.D
Date Acquired: 16 Sep 2001 13:55
Inst: HP_03 Operator ID: DDC
Name: AR1232L33E
Misc: 5-422-6
Method: f:\hpchem\hp\3\data\09_16_01\xspcbi16.m
Title:
Quant Time: Sep 17 15:09 2001 Quant Results File: xspcbi16.RES



Aroclor-1232 {2} 9.26min area: 510200 m

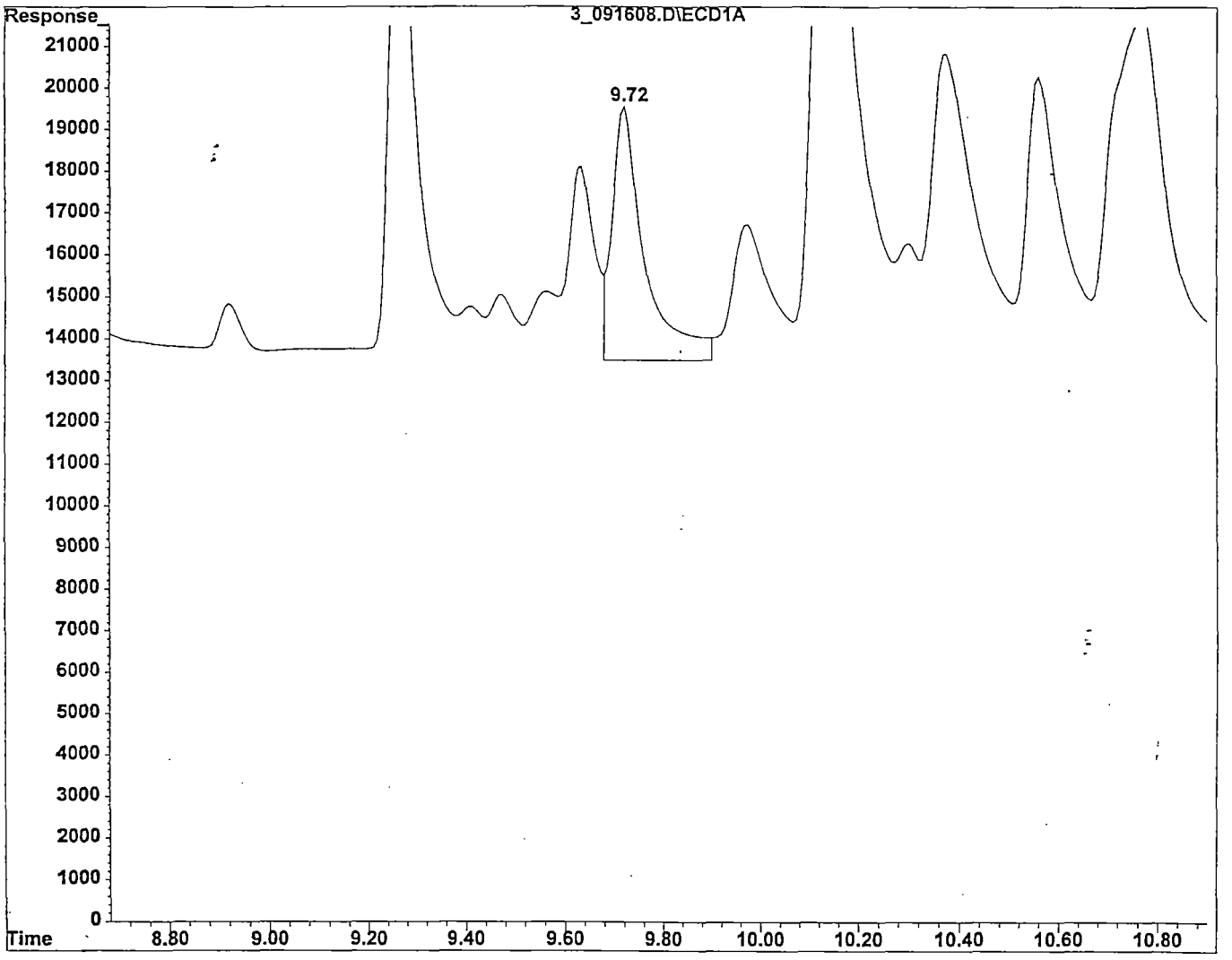
Integration Time Range: 9.21 - 9.38

BTB 091701

F:\HPCHEM\HP\3\DATA\09_16_01\3_091608.D
Report generated: Mon Sep 17 15:33:51 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_16_01\3_091608.D
Date Acquired: 16 Sep 2001 13:55
Inst: HP_03 Operator ID: DDC
Name: AR1232L33E
Misc: 5-422-6
Method: f:\hpchem\hp\3\data\09_16_01\xspcbi16.m
Title:
Quant Time: Sep 17 15:09 2001 Quant Results File: xspcbi16.RES



Aroclor-1232 {3} 9.72min area: 273196 m

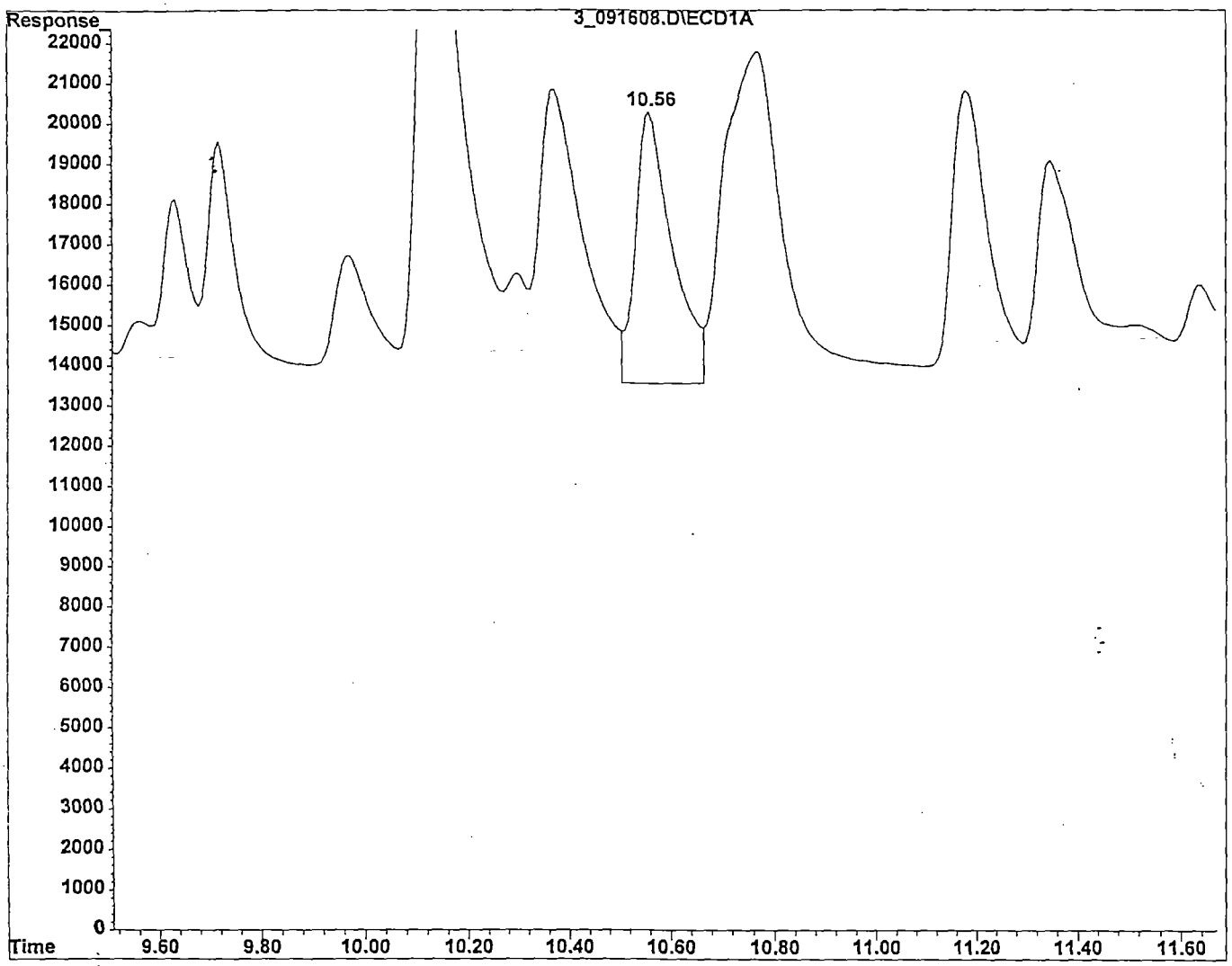
Integration Time Range: 9.68 - 9.90

BTB
091701

F:\HPCHEM\HP\3\DATA\09_16_01\3_091608.D
Report generated: Mon Sep 17 15:33:52 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_16_01\3_091608.D
Date Acquired: 16 Sep 2001 13:55
Inst: HP_03 Operator ID: DDC
Name: AR1232L33E
Misc: 5-422-6
Method: f:\hpchem\hp\3\data\09_16_01\xspcbi16.m
Title:
Quant Time: Sep 17 15:09 2001 Quant Results File: xspcbi16.RES



Aroclor-1232 {4} 10.56min area: 334288 m

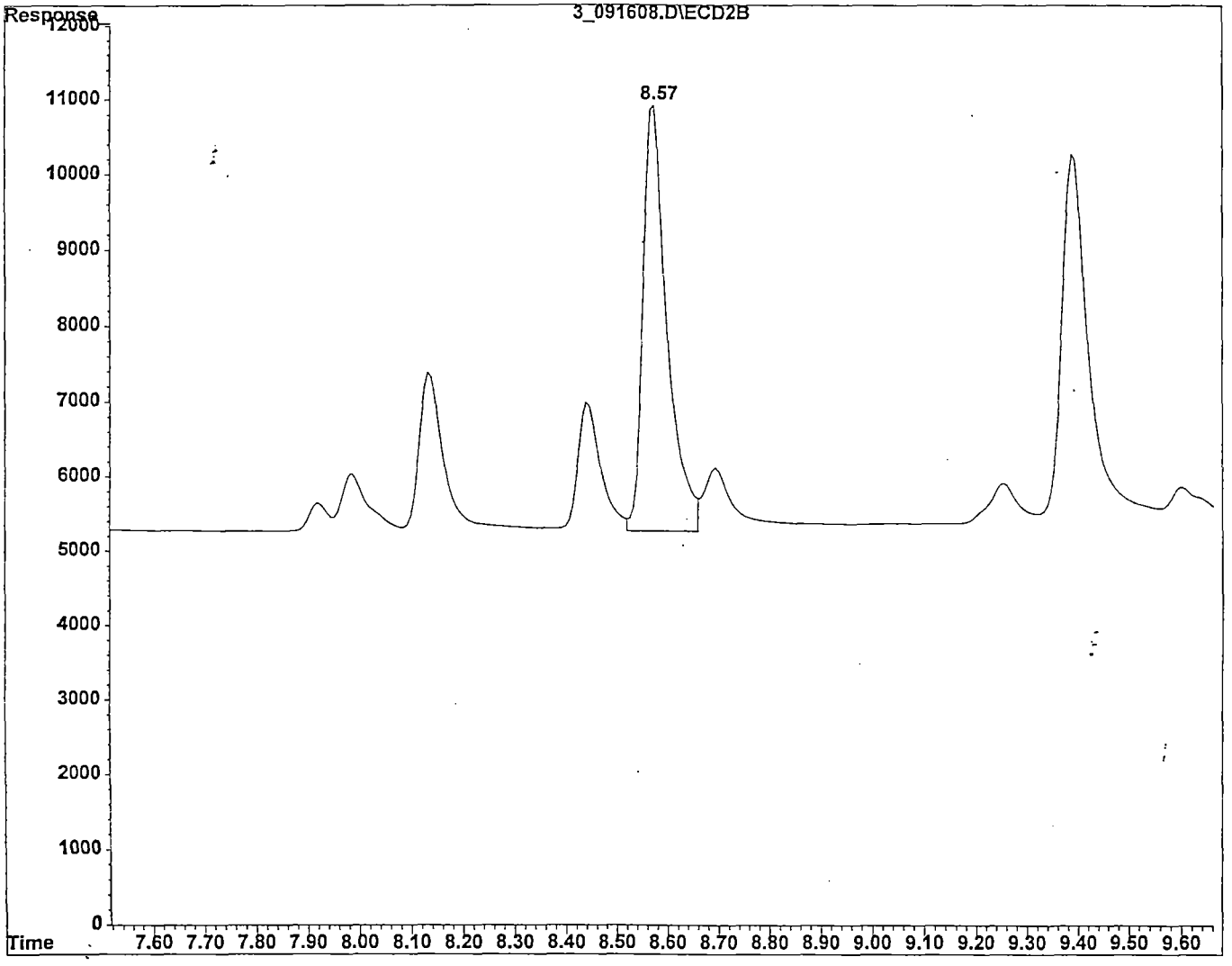
Integration Time Range: 10.51 - 10.67

BTB 091701

F:\HPCHEM\HP\3\DATA\09_16_01\3_091608.D
Report generated: Mon Sep 17 15:33:52 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_16_01\3_091608.D
Date Acquired: 16 Sep 2001 13:55
Inst: HP_03 Operator ID: DDC
Name: AR1232L33E
Misc: 5-422-6
Method: f:\hpchem\hp\3\data\09_16_01\xspcbi16.m
Title:
Quant Time: Sep 17 15:09 2001 Quant Results File: xspcbi16.RES



Aroclor-1232 #2 8.57min area: 185720 m

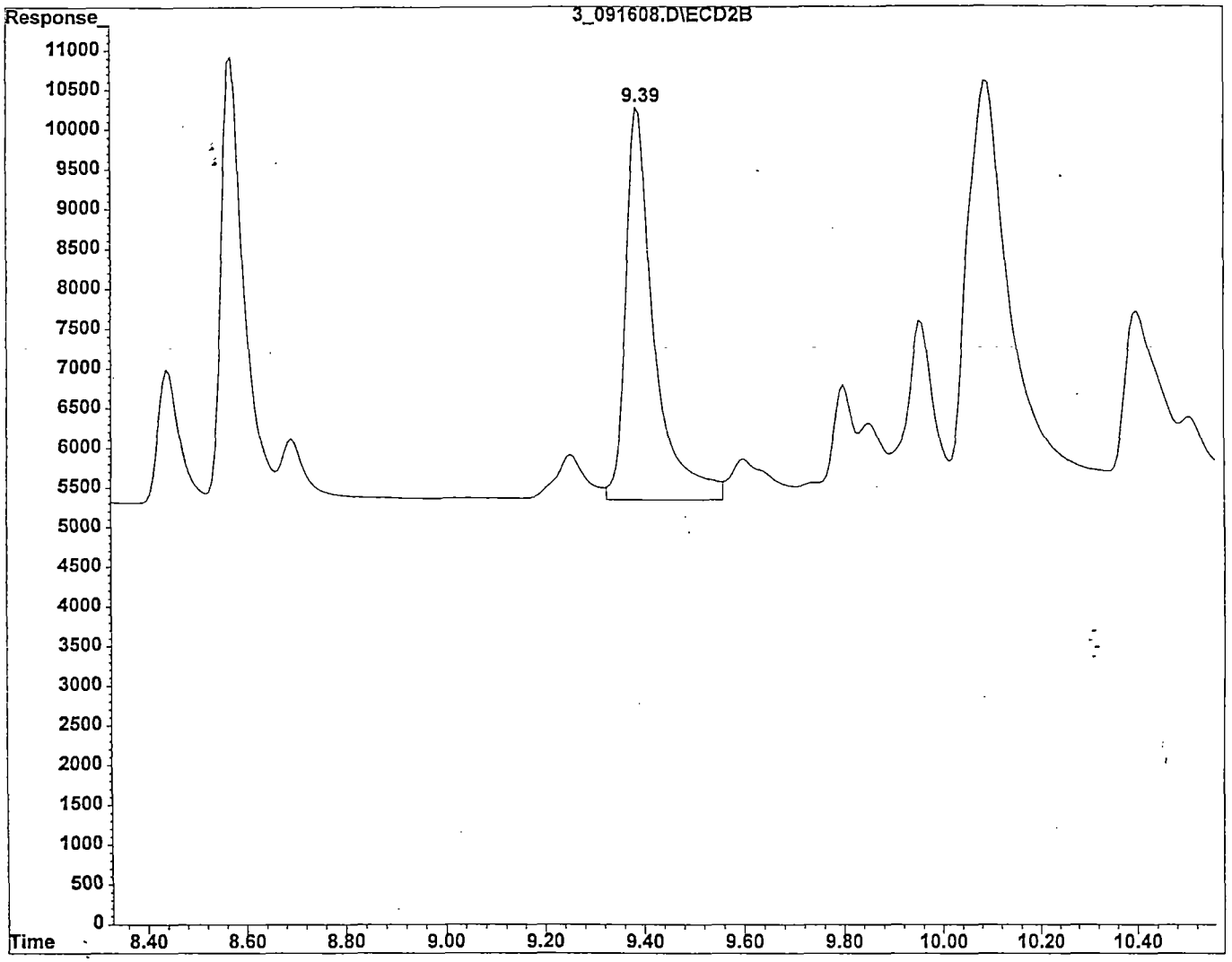
Integration Time Range: 8.52 - 8.66

BTB
091701

F:\HPCHEM\HP\3\DATA\09_16_01\3_091608.D
Report generated: Mon Sep 17 15:33:53 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_16_01\3_091608.D
Date Acquired: 16 Sep 2001 13:55
Inst: HP_03 Operator ID: DDC
Name: AR1232L33E
Misc: 5-422-6
Method: f:\hpchem\hp\3\data\09_16_01\xspcbi16.m
Title:
Quant Time: Sep 17 15:09 2001 Quant Results File: xspcbi16.RES



Aroclor-1232 {2} #2 9.39min area: 194204 m

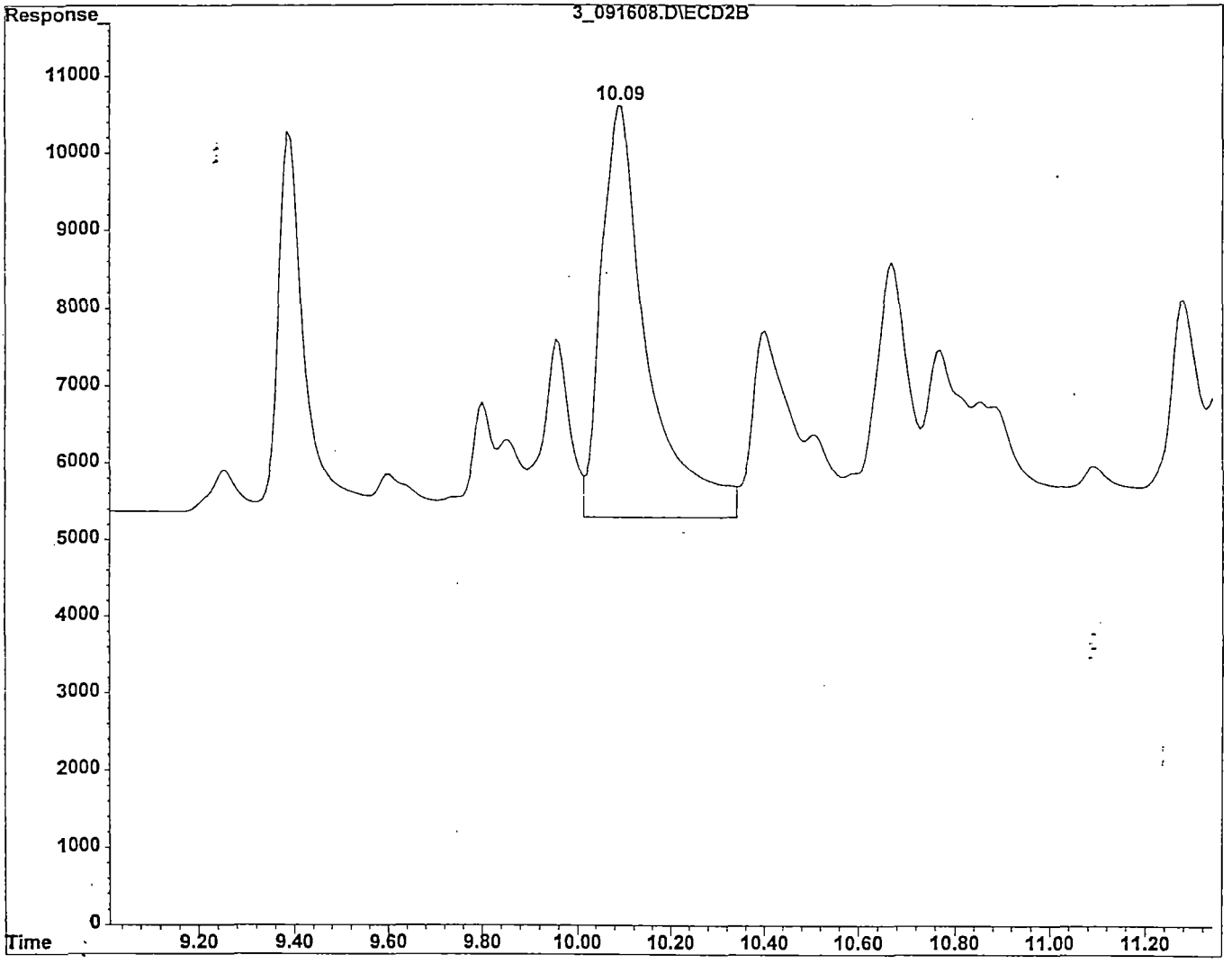
BTB 091701

Integration Time Range: 9.33 - 9.56

F:\HPCHEM\HP\3\DATA\09_16_01\3_091608.D
Report generated: Mon Sep 17 15:33:53 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_16_01\3_091608.D
Date Acquired: 16 Sep 2001 13:55
Inst: HP_03 Operator ID: DDC
Name: AR1232L33E
Misc: 5-422-6
Method: f:\hpchem\hp\3\data\09_16_01\xspcbi16.m
Title:
Quant Time: Sep 17 15:09 2001 Quant Results File: xspcbi16.RES



Aroclor-1232 {3} #2 10.09min area: 359012 m

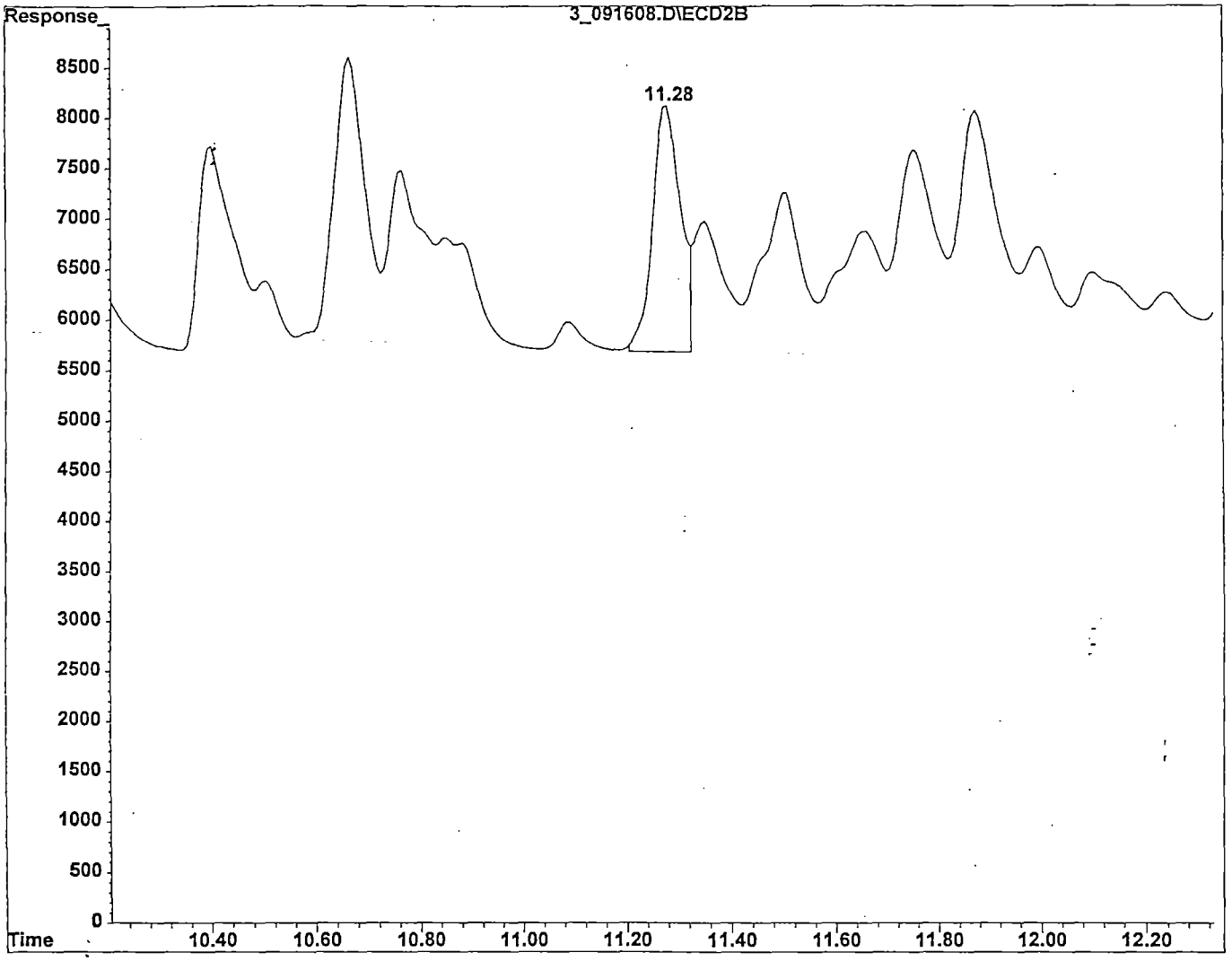
Integration Time Range: 10.01 - 10.34

BTB
091701

F:\HPCHEM\HP\3\DATA\09_16_01\3_091608.D
Report generated: Mon Sep 17 15:33:54 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_16_01\3_091608.D
Date Acquired: 16 Sep 2001 13:55
Inst: HP_03 Operator ID: DDC
Name: AR1232L33E
Misc: 5-422-6
Method: f:\hpchem\hp\3\data\09_16_01\xspcbi16.m
Title:
Quant Time: Sep 17 15:09 2001 Quant Results File: xspcbi16.RES



Aroclor-1232 {4} #2 11.28min area: 92068 m

BTB 091701

Integration Time Range: 11.20 - 11.33

F:\HPCHEM\HP\3\DATA\09_16_01\3_091608.D
Report generated: Mon Sep 17 15:33:54 2001

Response Factor Report HP_03

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

Calibration Files
L1 =3_091609.D L2 =3_091610.D L3 =3_091611.D
L4 =3_091612.D L5 =3_091613.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
7) Aroclor-1242	1.4	1.2	1.2	1.0	0.9	1.1 E3	16.86
8) Aroclor-1242 {2}	2.3	2.1	2.1	1.8	1.6	2.0 E3	14.03
9) Aroclor-1242 {3}	3.9	4.0	3.8	3.5	3.0	3.6 E3	11.61
10) Aroclor-1242 {4}	1.6	1.7	1.7	1.6	1.4	1.6 E3	8.95
11) Aroclor-1242 {5}	1.2	1.1	1.3	1.3	1.2	1.2 E3	6.49

Signal #2 Calibration Files
L1 =3_091609.D L2 =3_091610.D L3 =3_091611.D
L4 =3_091612.D L5 =3_091613.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
30) Aroclor-1242 #2	321.1	337.4	338.0	310.4	274.8	316.3	8.21
31) Aroclor-1242 {2} #2	724.2	741.5	728.9	662.1	576.6	686.7	10.01
32) Aroclor-1242 {3} #2	1.4	1.4	1.4	1.3	1.1	1.3 E3	9.58
33) Aroclor-1242 {4} #2	422.6	443.3	462.8	438.2	396.6	432.7	5.73
34) Aroclor-1242 {5} #2	360.8	421.3	400.0	379.1	359.5	384.1	6.90

(#) = Out of Range

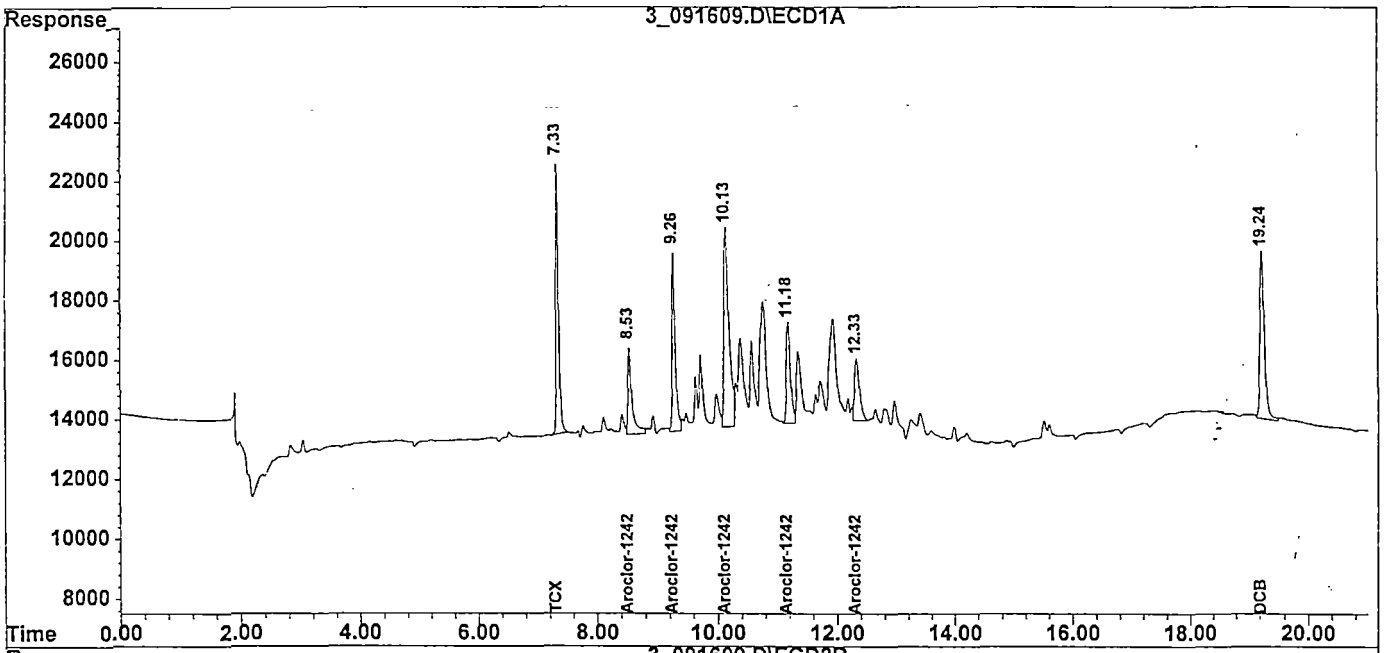
XPCBI16.M Mon Sep 17 11:21:12 2001

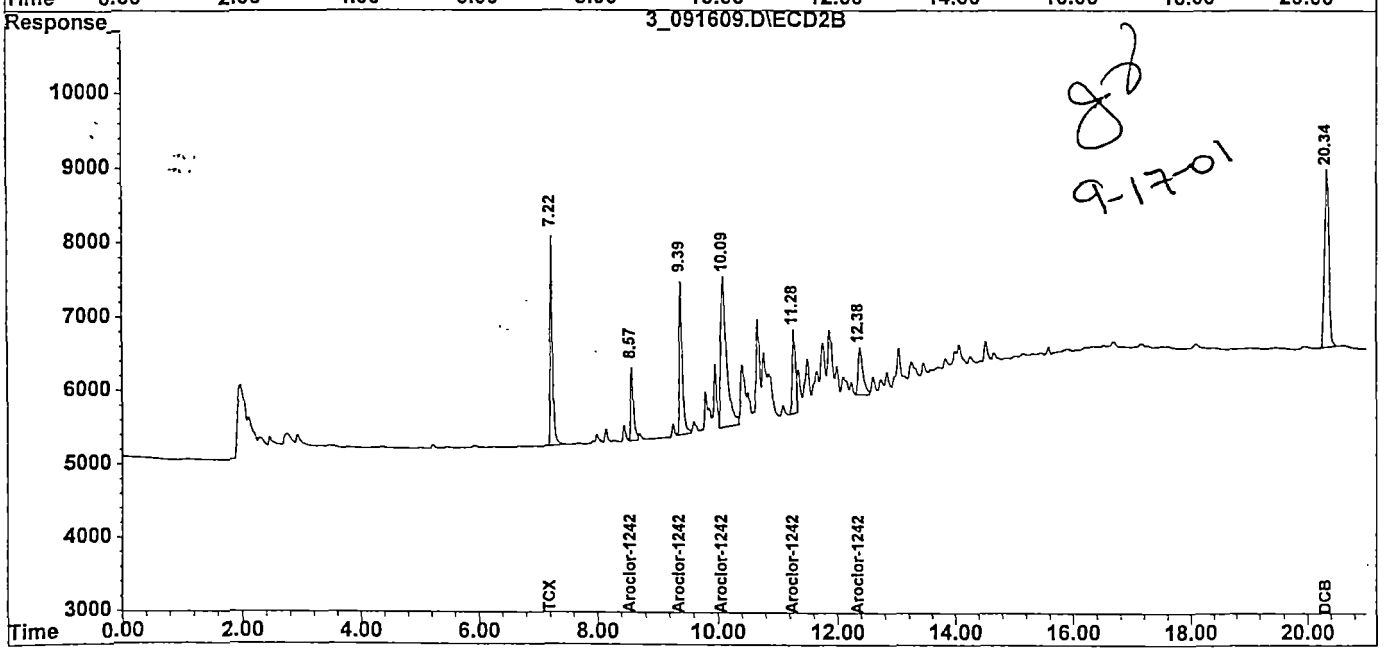
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091609.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091609.D\ECD2B.CH
Acq On : 16 Sep 2001 14:20 Operator: DDC
Sample : AR1242L13E Inst : HP_03
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 10:57 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





gd
9-17-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091609.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091609.D\ECD2B.CH
Acq On : 16 Sep 2001 14:20 Operator: DDC
Sample : AR1242L13E Inst : HP_03
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 10:57 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

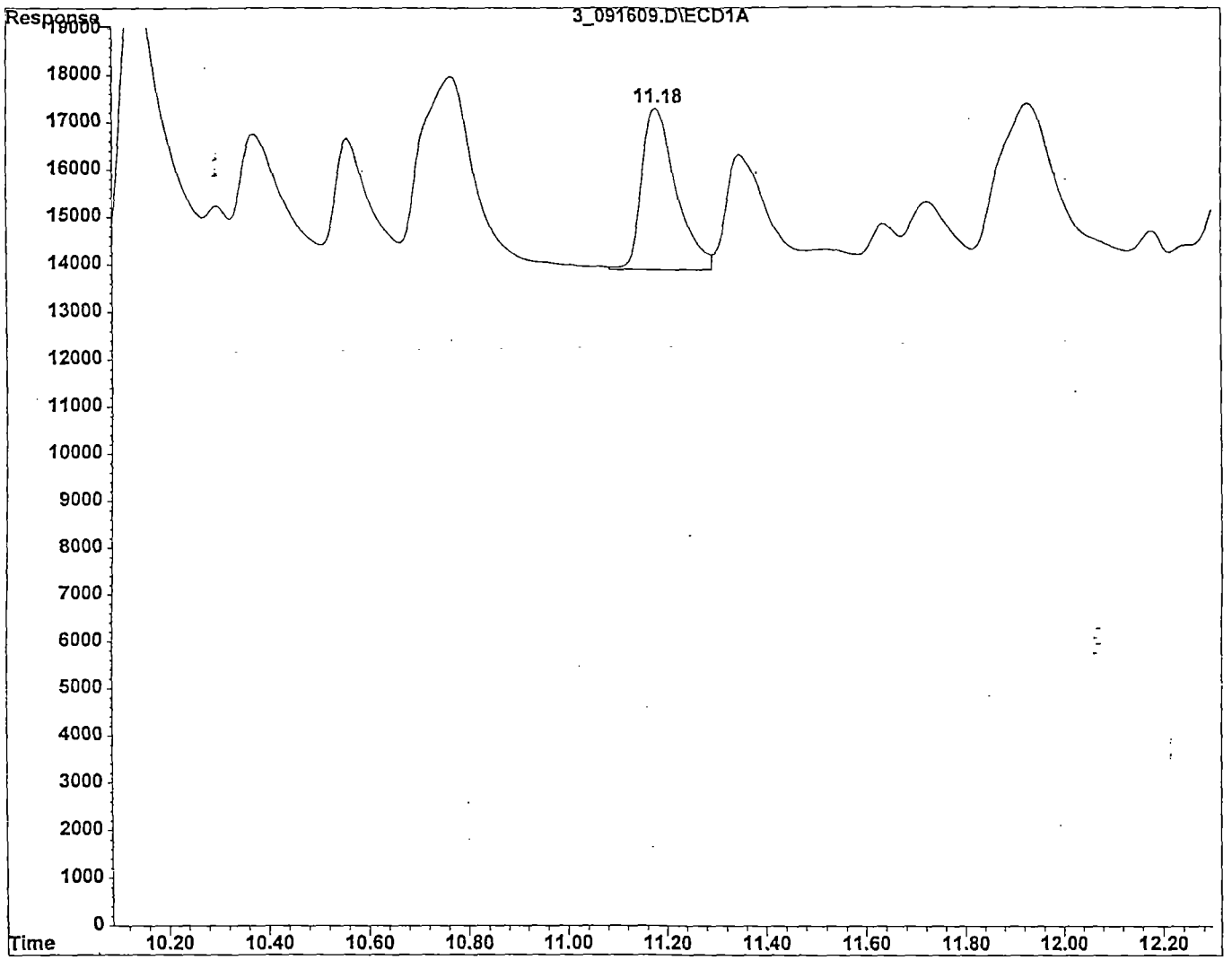
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	281165	80426	7.593	6.364
22)	S DCB	19.24	20.35	292155	121665	6.568	5.869
	Target Compounds:						
7)	L4 Aroclor-1242	8.53	8.57	139299	32107	179.2	136.3
8)	L4 Aroclor-1242 {2}	9.27	9.39	227724	72416	164.9	136.3
9)	L4 Aroclor-1242 {3}	10.14	10.09	392624	137563	254.7	227.5
10)	L4 Aroclor-1242 {4}	11.18	11.28	163744	42261	151.9m BTB	123.8
11)	L4 Aroclor-1242 {5}	12.33	12.38	122436	36080	188.9m 09170	89.3m # BTB 09170
	Sum Aroclor-1242			1045828	320426	939.6	713.2
	Average Aroclor-1242					187.923	142.637

(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\3\DATA\09_16_01\3_091609.D
Date Acquired: 16 Sep 2001 14:20
Inst: HP_03 Operator ID: DDC
Name: AR1242L13E
Misc: 5-11-7
Method: F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 17 10:57 2001 Quant Results File: XPCBI16.RES



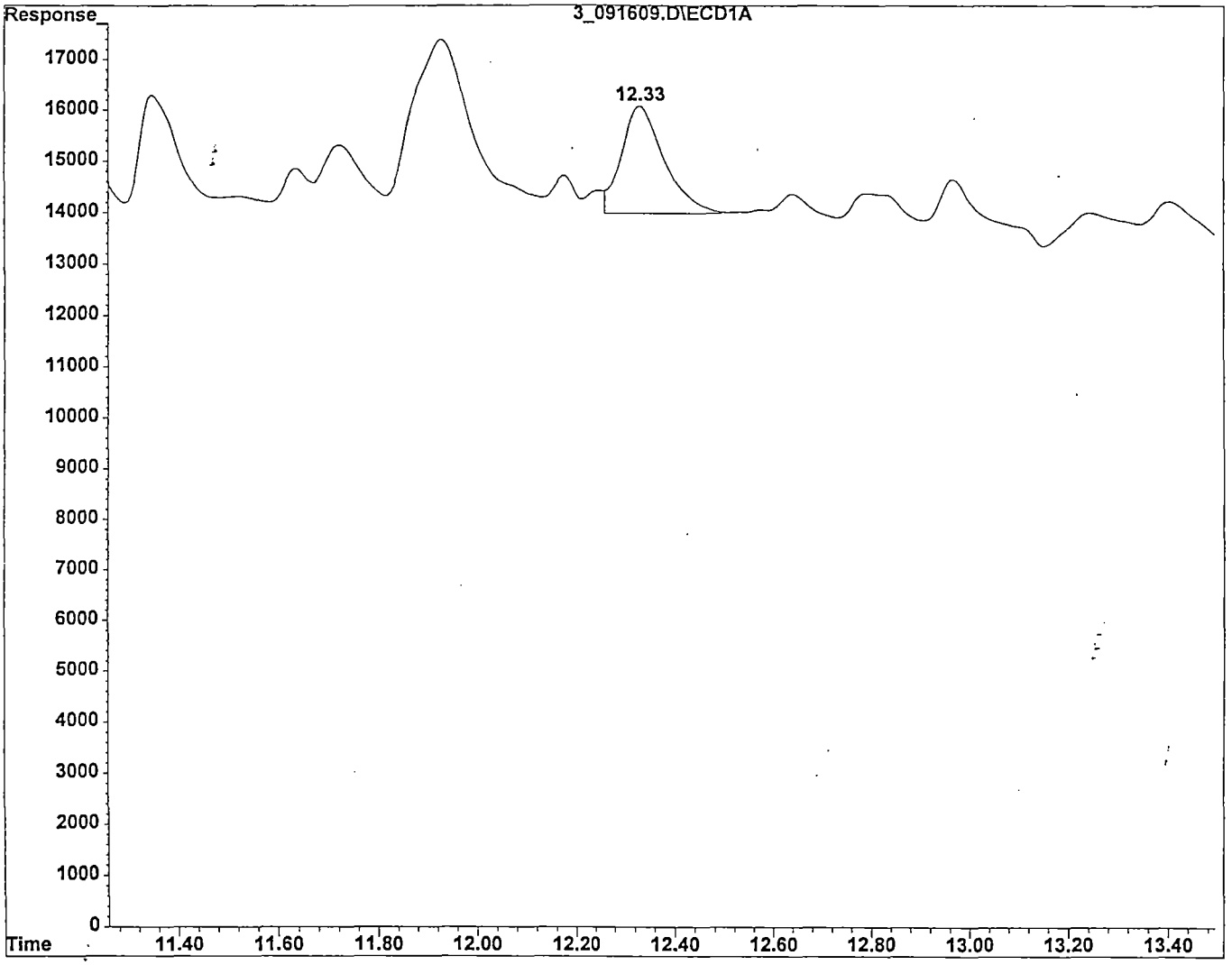
Aroclor-1242 {4} 11.18min area: 163744 m BTB 091701

Integration Time Range: 11.09 - 11.30

F:\HPCHEM\HP\3\DATA\09_16_01\3_091609.D
Report generated: Mon Sep 17 11:25:05 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_16_01\3_091609.D
Date Acquired: 16 Sep 2001 14:20
Inst: HP_03 Operator ID: DDC
Name: AR1242L13E
Misc: 5-11-7
Method: F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 17 10:57 2001 Quant Results File: XPCBI16.RES



Aroclor-1242 {5} 12.33min area: 122436 m

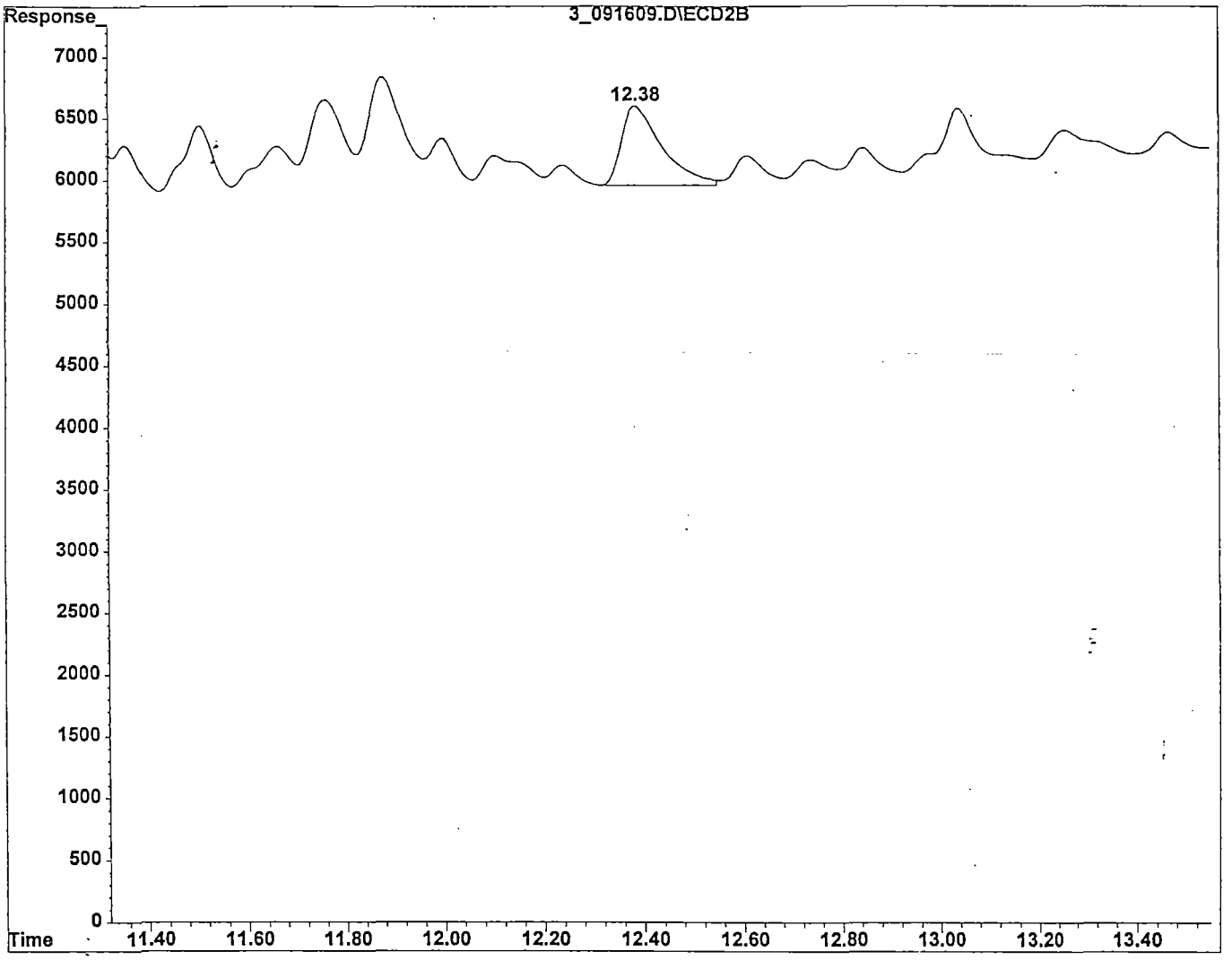
Integration Time Range: 12.26 - 12.49

BTB 091701

F:\HPCHEM\HP\3\DATA\09_16_01\3_091609.D
Report generated: Mon Sep 17 11:25:06 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_16_01\3_091609.D
Date Acquired: 16 Sep 2001 14:20
Inst: HP_03 Operator ID: DDC
Name: AR1242L13E
Misc: 5-11-7
Method: F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 17 10:57 2001 Quant Results File: XPCBI16.RES



Aroclor-1242 {5} #2 12.38min area: 36080 m

Integration Time Range: 12.32 - 12.55

BJB 091701

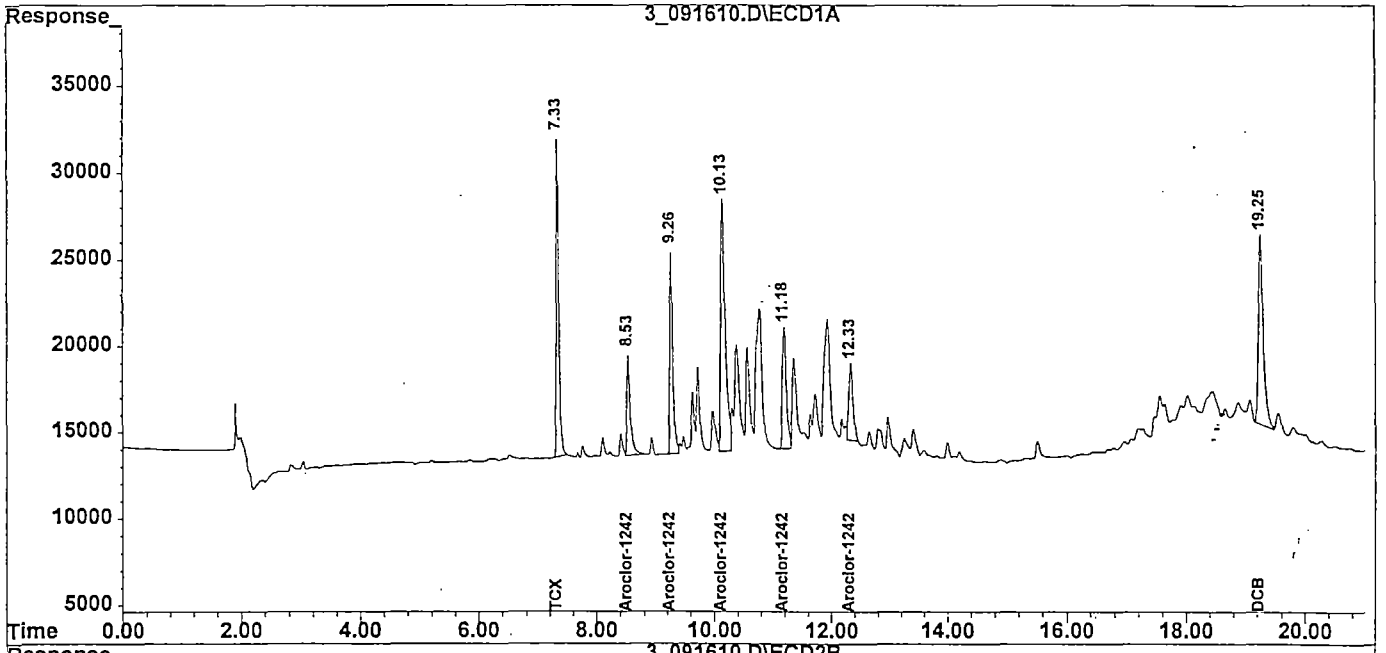
F:\HPCHEM\HP\3\DATA\09_16_01\3_091609.D
Report generated: Mon Sep 17 11:25:07 2001

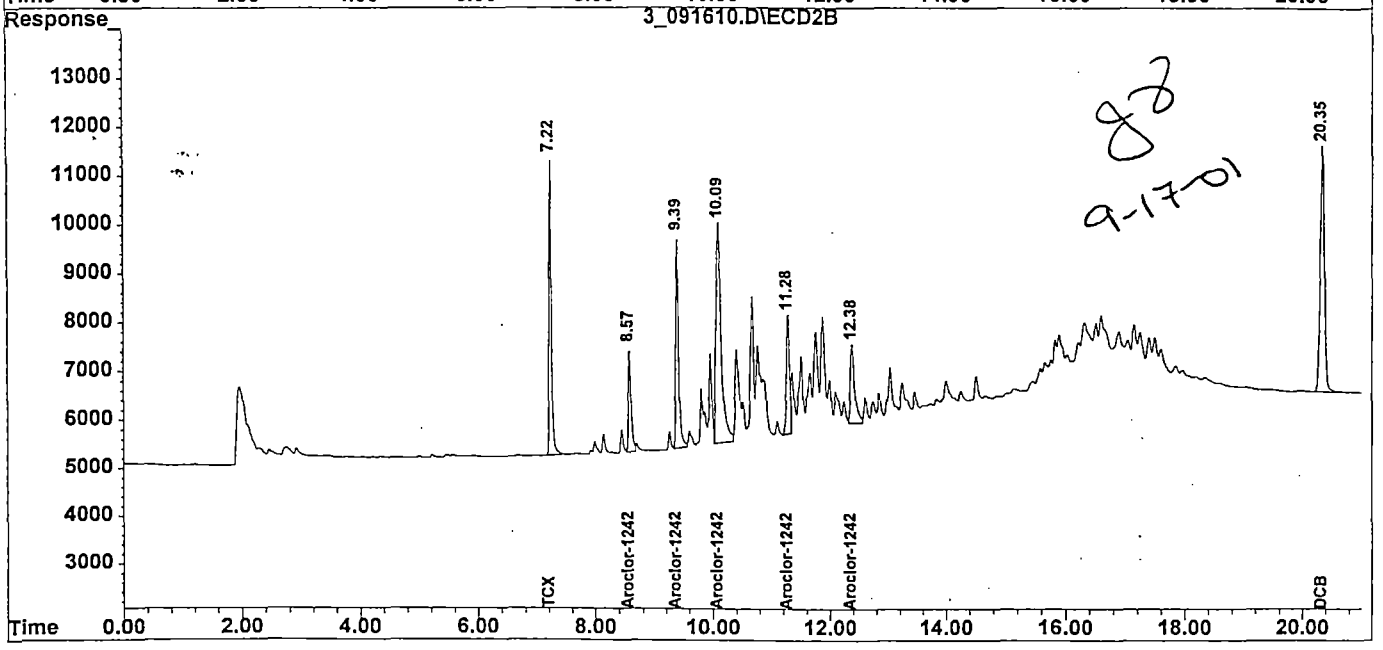
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091610.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091610.D\ECD2B.CH
Acq On : 16 Sep 2001 14:46 Operator: DDC
Sample : AR1242L23E Inst : HP_03
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 10:58 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





gg
9-17-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091610.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091610.D\ECD2B.CH
Acq On : 16 Sep 2001 14:46 Operator: DDC
Sample : AR1242L23E Inst : HP_03
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 10:58 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

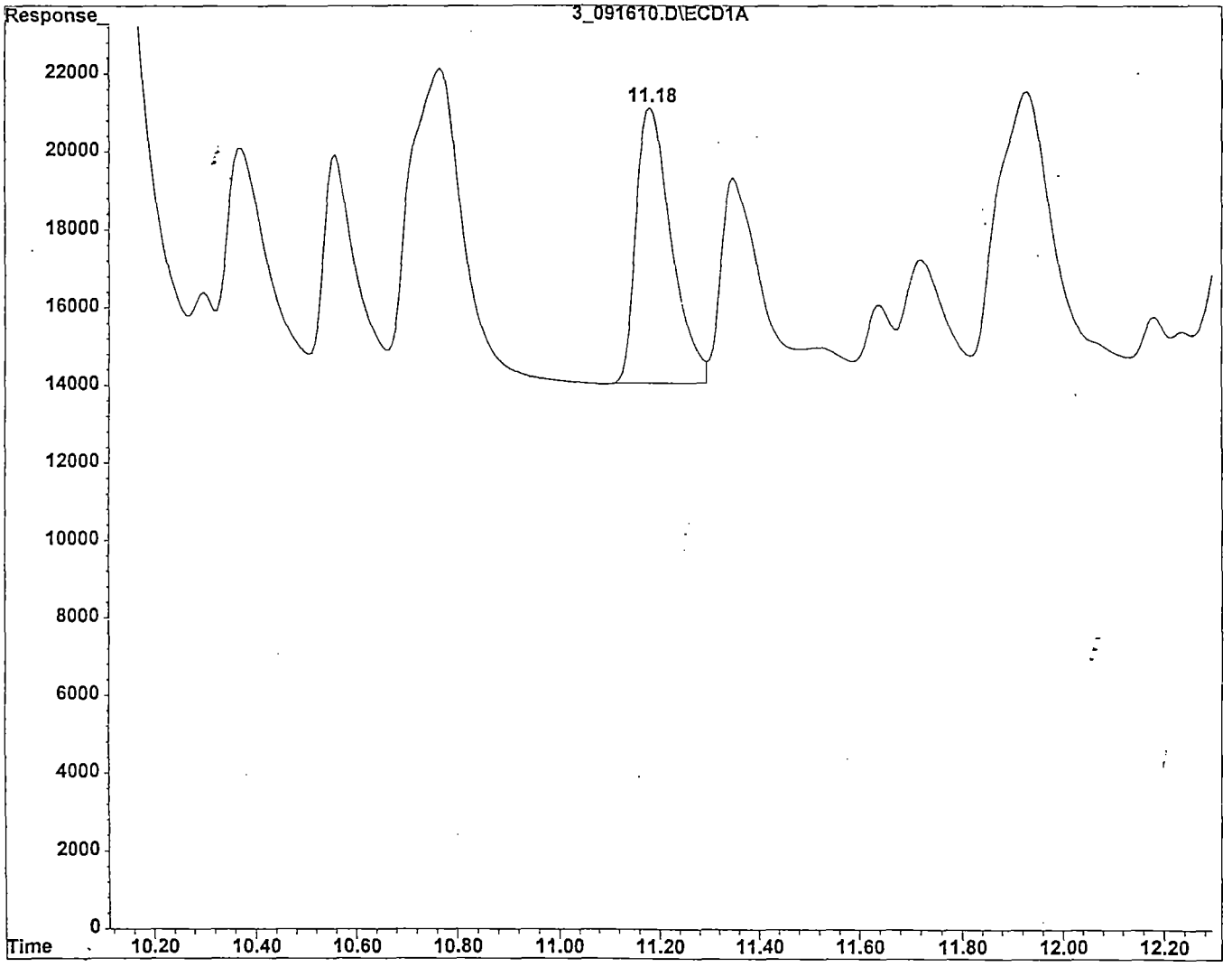
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	576559	169507	15.6	13.4
22)	S DCB	19.25	20.35	626932	253672	14.1	12.2
	Target Compounds:						
7)	L4 Aroclor-1242	8.53	8.57	234502	67475	301.7	286.5
8)	L4 Aroclor-1242 {2}	9.26	9.39	424469	148298	307.4	279.1
9)	L4 Aroclor-1242 {3}	10.13	10.09	798625	284740	518.1	470.9
10)	L4 Aroclor-1242 {4}	11.18	11.28	342356	88662	317.5m BTB 091701	259.7
11)	L4 Aroclor-1242 {5}	12.33	12.38	228284	84252	352.3	208.4m # BTB 091701
	Sum Aroclor-1242			2028236	673427	1796.9	1504.7
	Average Aroclor-1242					359.386	300.938

(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\3\DATA\09_16_01\3_091610.D
Date Acquired: 16 Sep 2001 14:46
Inst: HP_03 Operator ID: DDC
Name: AR1242L23E
Misc: 5-10-7
Method: F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 17 10:58 2001 Quant Results File: XPCBI16.RES



Aroclor-1242 {4} 11.18min area: 342356 m

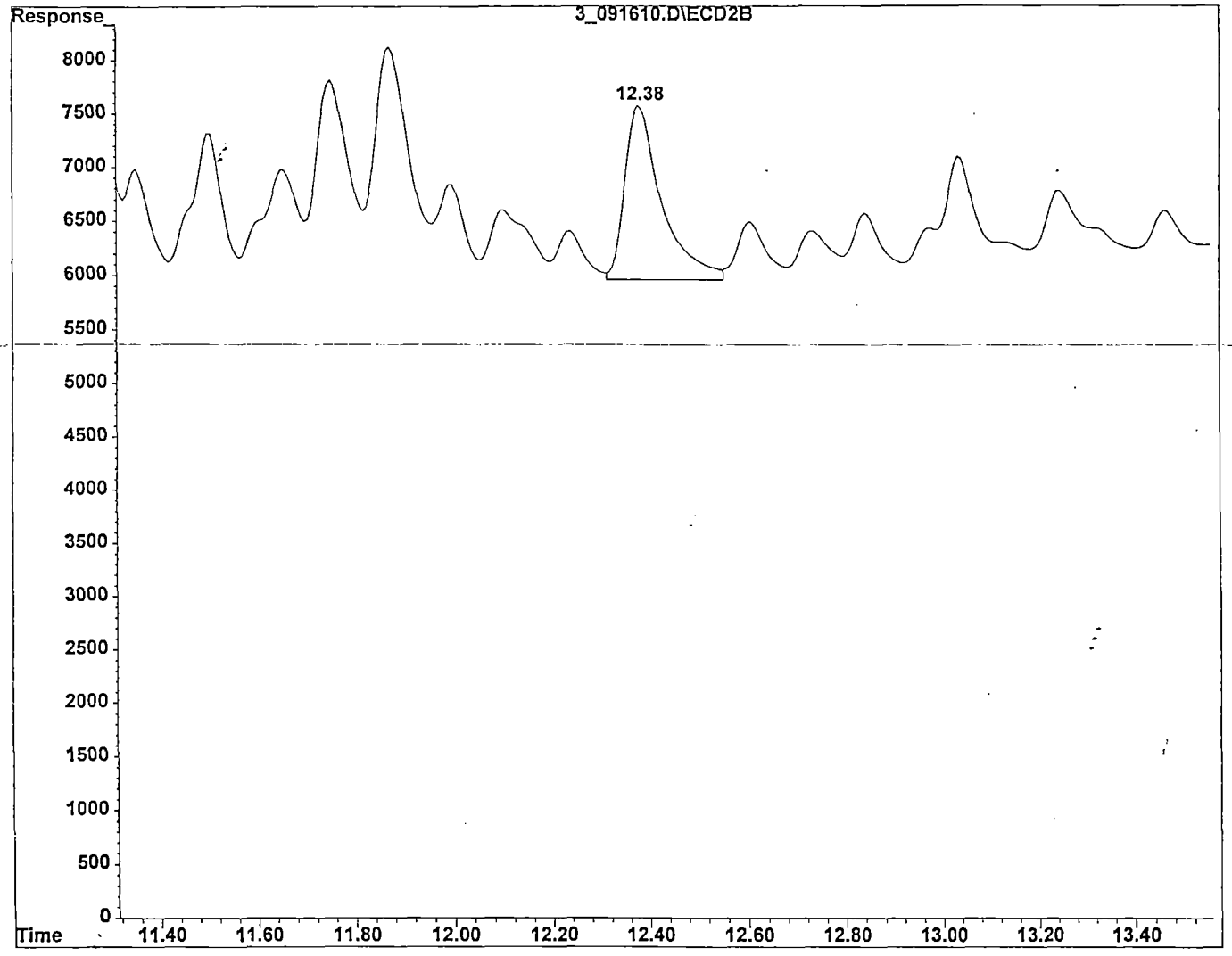
BTB 091701

Integration Time Range: 11.11 - 11.29

F:\HPCHEM\HP\3\DATA\09_16_01\3_091610.D
Report generated: Mon Sep 17 11:25:08 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_16_01\3_091610.D
Date Acquired: 16 Sep 2001 14:46
Inst: HP_03 Operator ID: DDC
Name: AR1242L23E
Misc: 5-10-7
Method: F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 17 10:58 2001 Quant Results File: XPCBI16.RES



Aroclor-1242 {5} #2 12.38min area: 84252 m

BTB 091701

Integration Time Range: 12.31 - 12.55

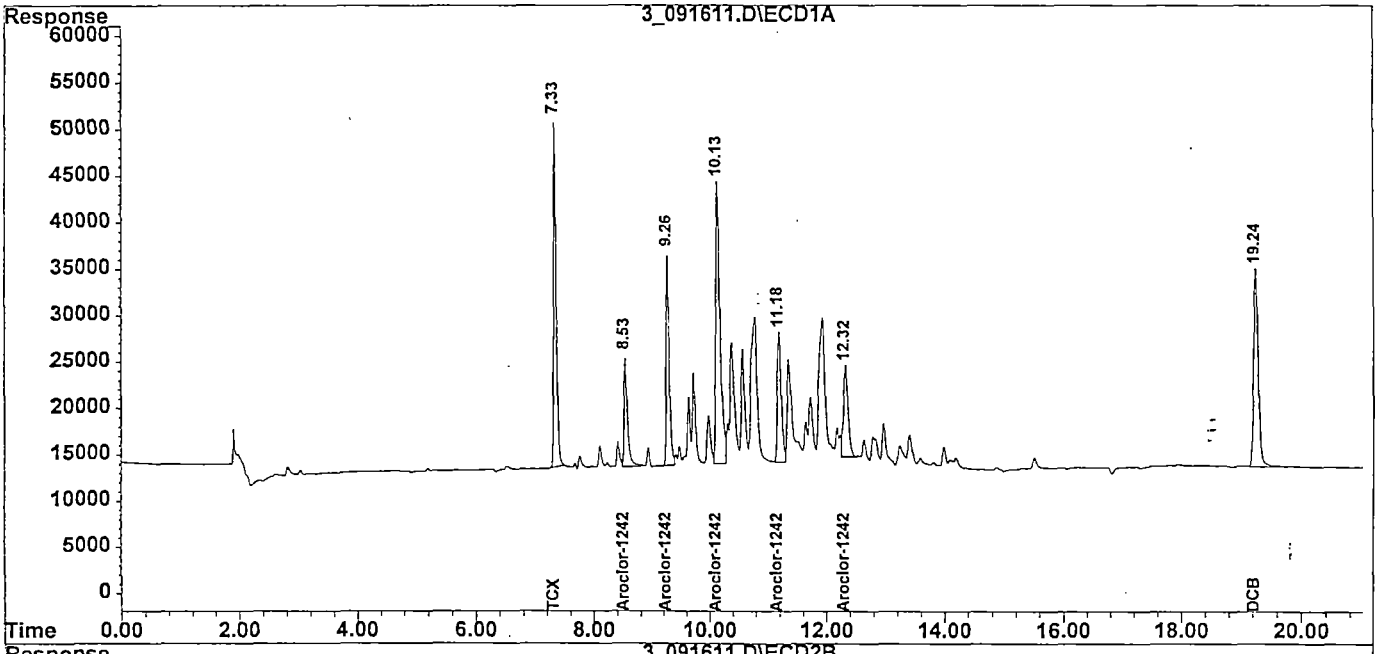
F:\HPCHEM\HP\3\DATA\09_16_01\3_091610.D
Report generated: Mon Sep 17 11:25:08 2001

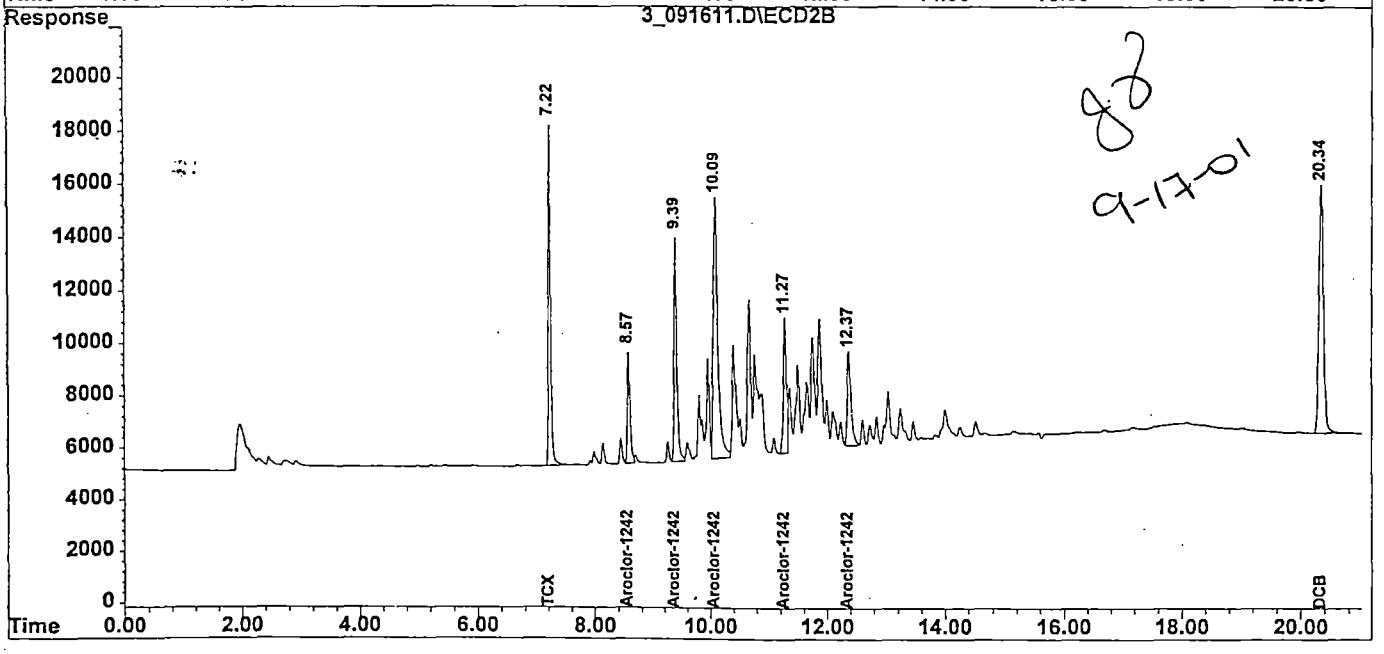
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091611.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091611.D\ECD2B.CH
Acq On : 16 Sep 2001 15:12 Operator: DDC
Sample : AR1242L33E Inst : HP_03
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 10:59 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





8
9-17-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091611.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091611.D\ECD2B.CH
Acq On : 16 Sep 2001 15:12 Operator: DDC
Sample : AR1242L33E Inst : HP_03
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 10:59 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

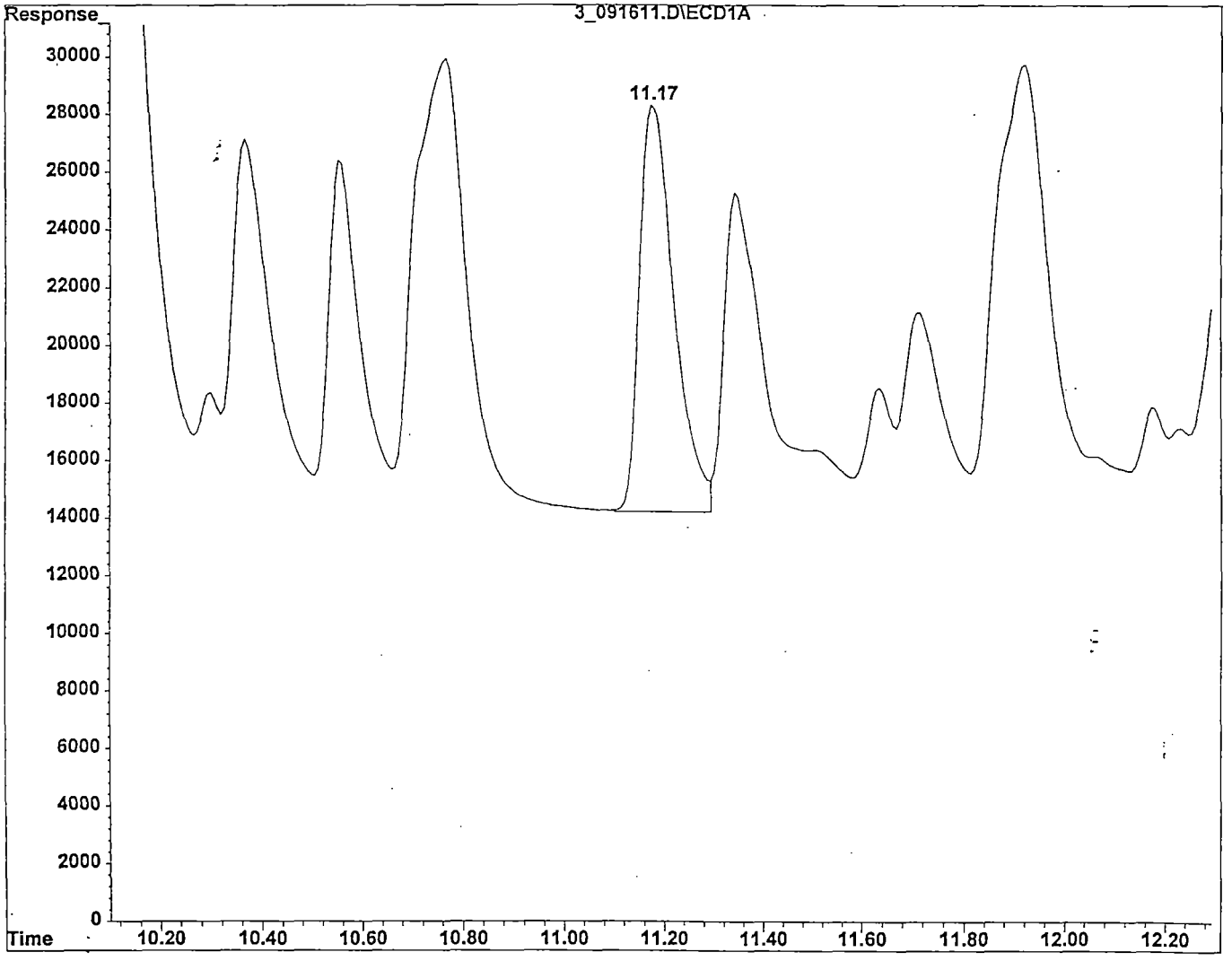
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	1183544	357391	32.0	28.3
22)	S DCB	19.24	20.35	1144022	505581	25.7	24.4
	Target Compounds:						
7)	L4 Aroclor-1242	8.53	8.57	472301	135196	607.7	574.1
8)	L4 Aroclor-1242 {2}	9.26	9.39	824721	291574	597.2	548.8
9)	L4 Aroclor-1242 {3}	10.13	10.09	1534936	563361	995.8	931.8
10)	L4 Aroclor-1242 {4}	11.17	11.28	682248	185121	632.7m BTB 091701	542.2
11)	L4 Aroclor-1242 {5}	12.32	12.37	534588	160008	825.0m	395.8m #BTB 091701
	Sum Aroclor-1242			4048795	1335260	3658.3	2992.7
	Average Aroclor-1242					731.651	598.534

(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\3\DATA\09_16_01\3_091611.D
Date Acquired: 16 Sep 2001 15:12
Inst: HP_03 Operator ID: DDC
Name: AR1242L33E
Misc: 5-9-7
Method: F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 17 10:59 2001 Quant Results File: XPCBI16.RES



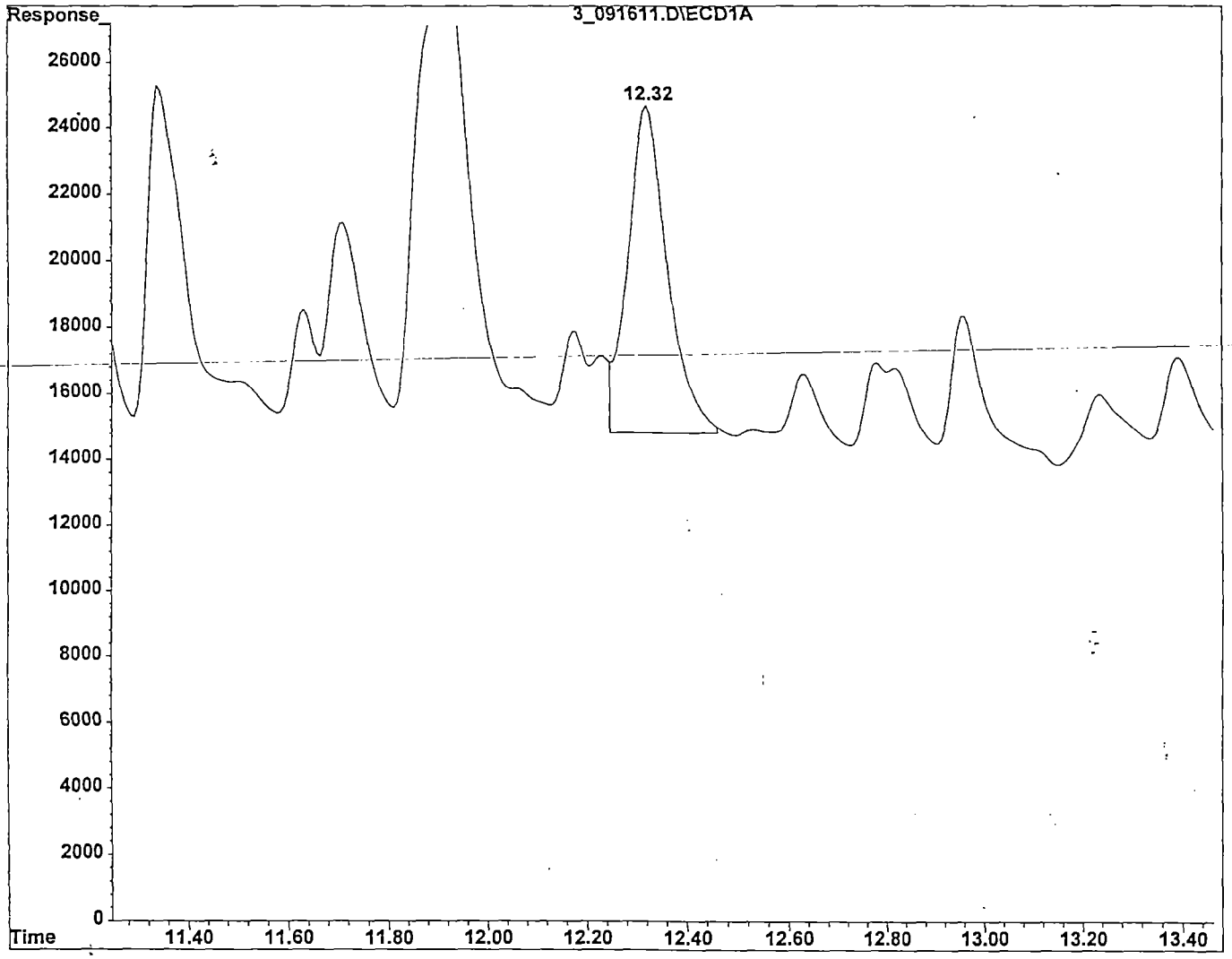
Aroclor-1242 {4} 11.17min area: 682248 m BTB 09/01

Integration Time Range: 11.10 - 11.29

F:\HPCHEM\HP\3\DATA\09_16_01\3_091611.D
Report generated: Mon Sep 17 11:25:10 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_16_01\3_091611.D
Date Acquired: 16 Sep 2001 15:12
Inst: HP_03 Operator ID: DDC
Name: AR1242L33E
Misc: 5-9-7
Method: F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 17 10:59 2001 Quant Results File: XPCBI16.RES



Aroclor-1242 {5} 12.32min area: 534588 m

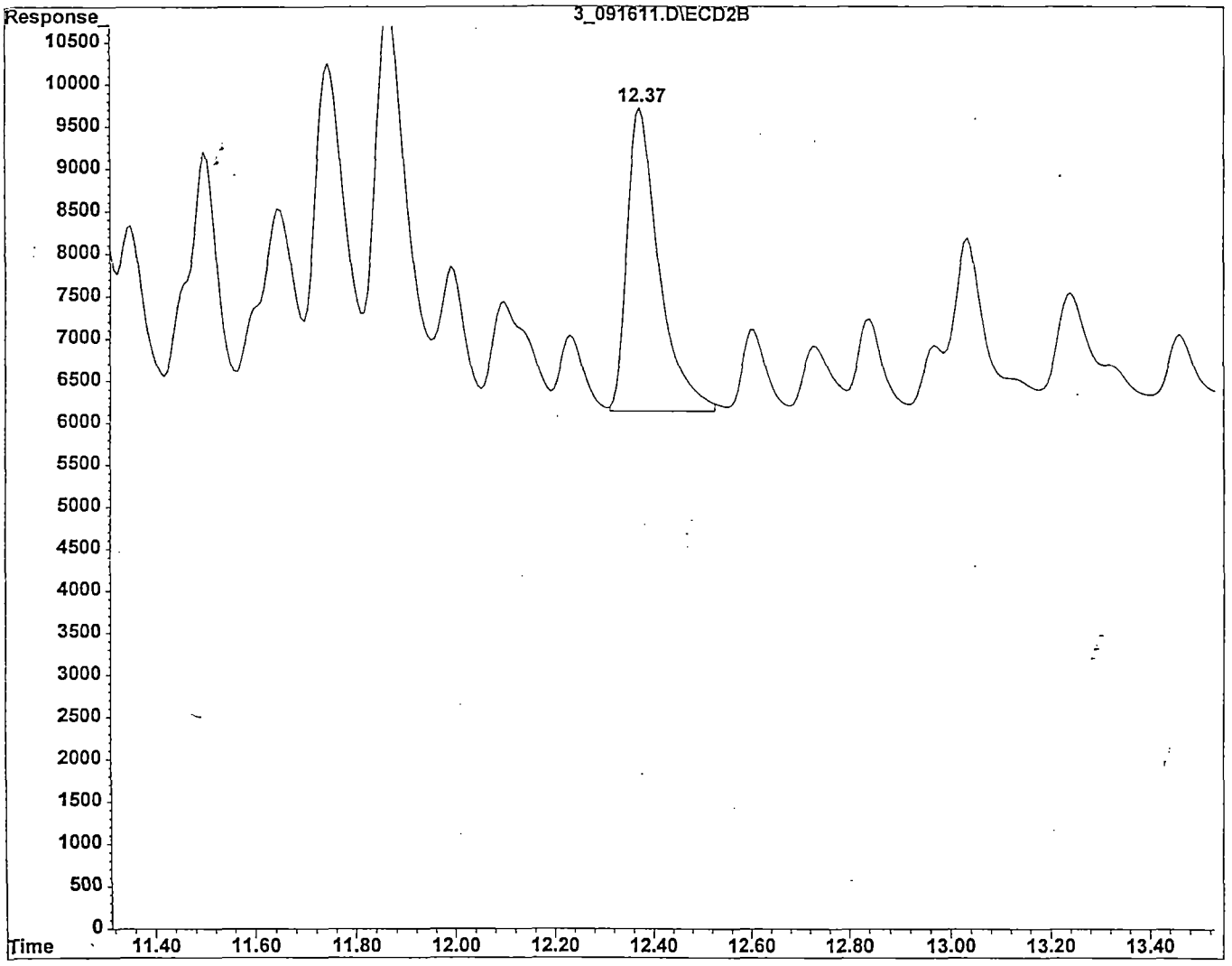
BTB 091701

Integration Time Range: 12.25 - 12.46

F:\HPCHEM\HP\3\DATA\09_16_01\3_091611.D
Report generated: Mon Sep 17 11:25:10 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_16_01\3_091611.D
Date Acquired: 16 Sep 2001 15:12
Inst: HP_03 Operator ID: DDC
Name: AR1242L33E
Misc: 5-9-7
Method: F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 17 10:59 2001 Quant Results File: XPCBI16.RES



Aroclor-1242 {5} #2 12.37min area: 160008 m

BTB
091701

Integration Time Range: 12.31 - 12.53

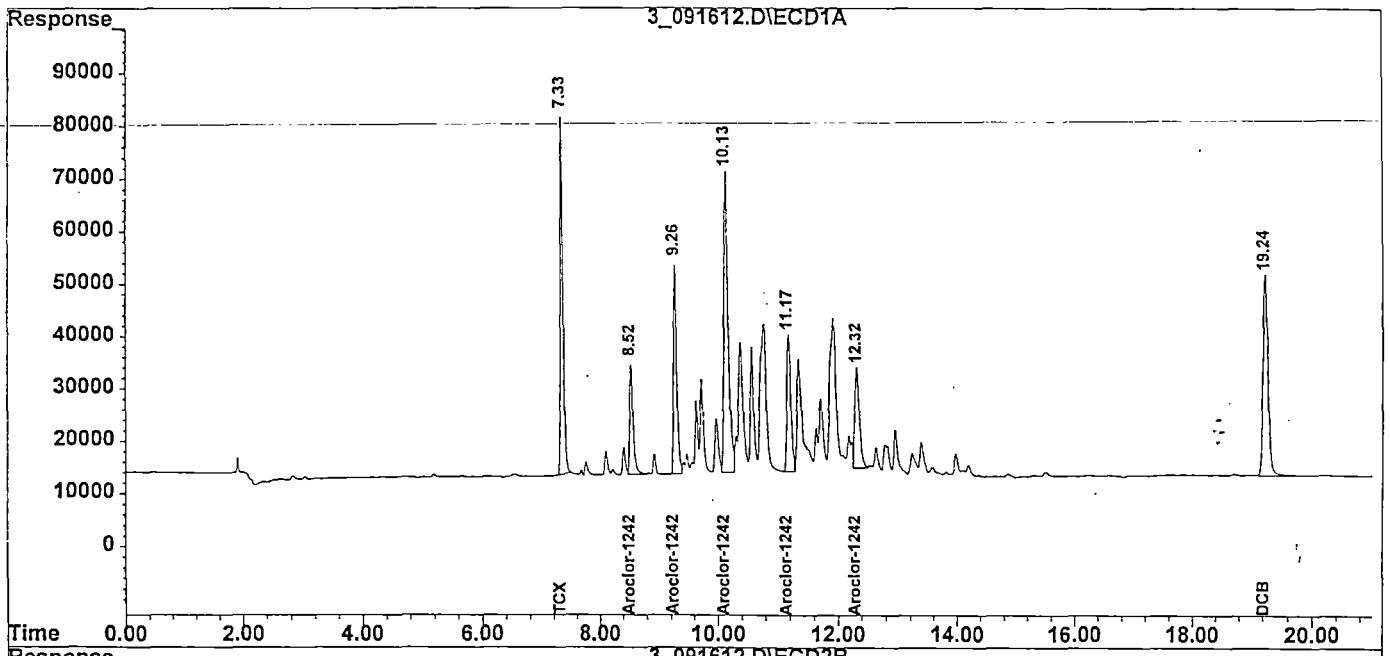
F:\HPCHEM\HP\3\DATA\09_16_01\3_091611.D
Report generated: Mon Sep 17 11:25:11 2001

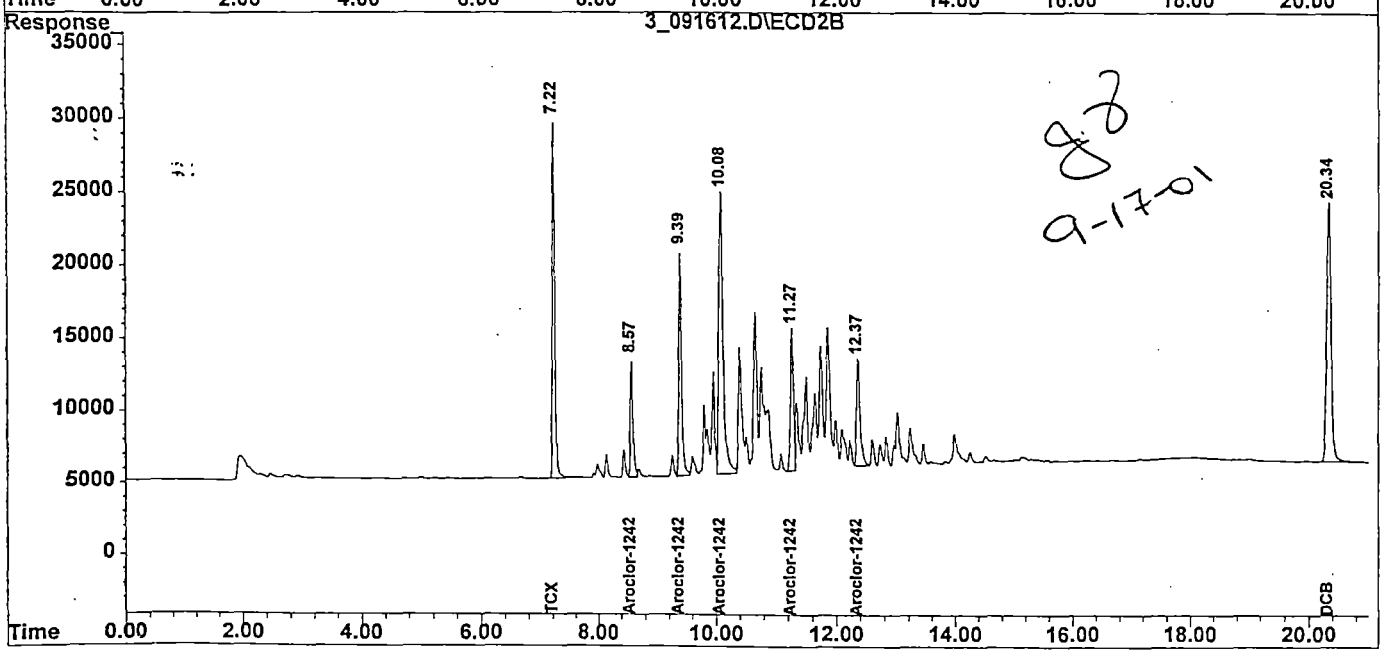
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091612.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091612.D\ECD2B.CH
Acq On : 16 Sep 2001 15:37 Operator: DDC
Sample : AR1242L43E Inst : HP_03
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 11:00 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





8.8
9-17-01

Quantitation Report

gnal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091612.D\ECD1A.CH Vial: 12
gnal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091612.D\ECD2B.CH
q On : 16 Sep 2001 15:37 Operator: DDC
mple : AR1242L43E Inst : HP_03
sc : 5-8-7 Dilution: 1.00
tFile Signal #1: events.e IntFile Signal #2: events2.e
ant Time: Sep 17 11:00 2001 Quant Results File: XPCBI16.RES

thod : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
tle-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
st Update : Thu Sep 06 08:09:33 2001
sponse via : Initial Calibration

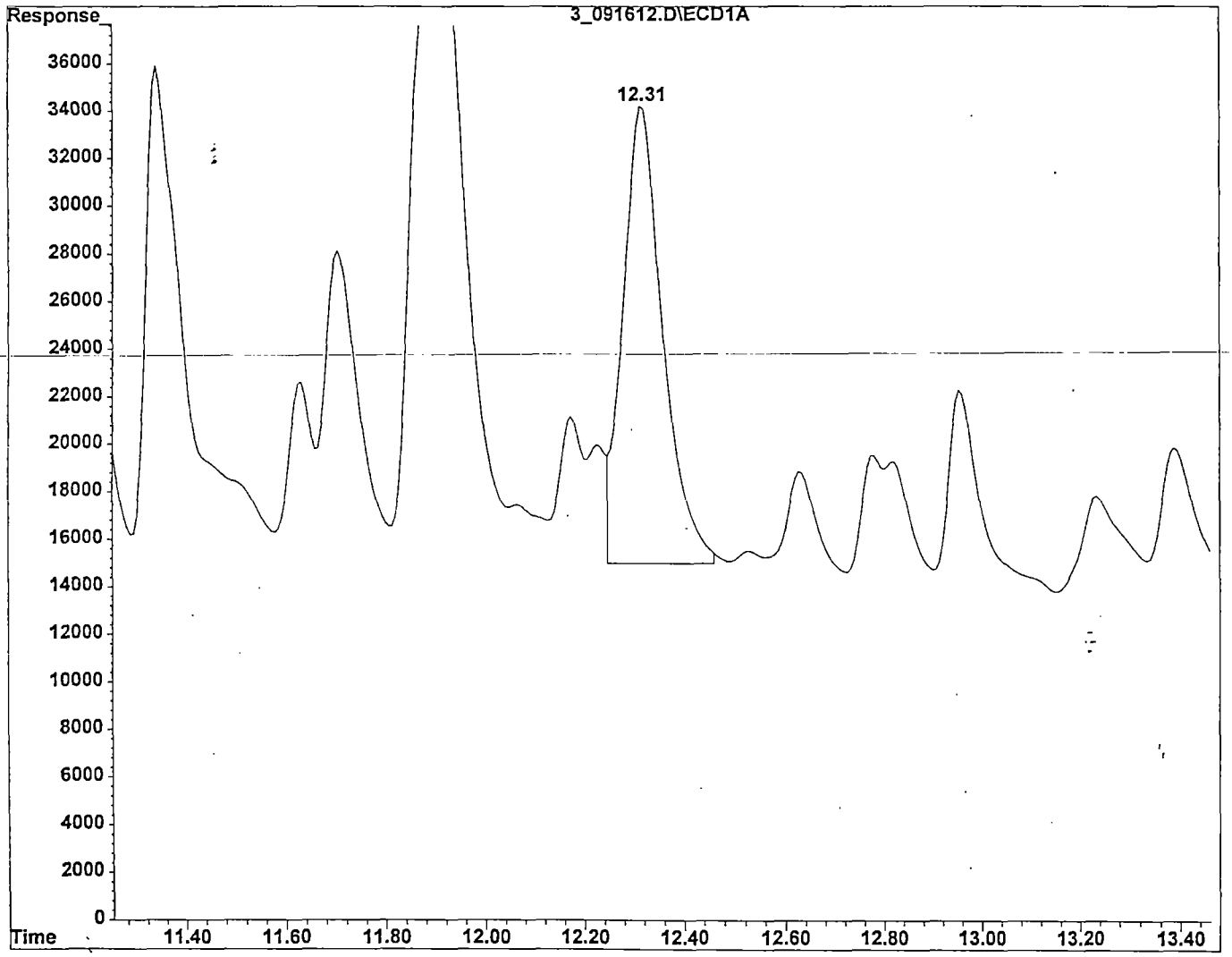
lume Inj. : 0.5uL
gnal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
gnal #1 Info : .32 mm Signal #2 Info : .32 mm
gnal #1 Inst : HP_03A Signal #2 Inst : HP_03B

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
tem Monitoring Compounds:						
TCX	7.33	7.22	2212667	687042	59.8	54.4
DCB	19.24	20.34	2134950	955976	48.0	46.1
get Compounds:						
Aroclor-1242	8.53	8.57	823372	248310	1059.3	1054.4
Aroclor-1242 {2}	9.26	9.39	1466462	529698	1061.9	997.0
Aroclor-1242 {3}	10.13	10.09	2762450	1030988	1792.1	1705.2
Aroclor-1242 {4}	11.17	11.27	1251928	350595	1161.0m BTB 091701	1026.8
Aroclor-1242 {5}	12.31	12.37	1052440	303260	1624.1m	750.2m # BTB 091701
Aroclor-1242			7356653	2462851	6698.4	5533.6
Aroclor-1242					1339.677	1106.726

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_16_01\3_091612.D
Date Acquired: 16 Sep 2001 15:37
Inst: HP_03 Operator ID: DDC
Name: AR1242L43E
Misc: 5-8-7
Method: F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 17 11:00 2001 Quant Results File: XPCBI16.RES



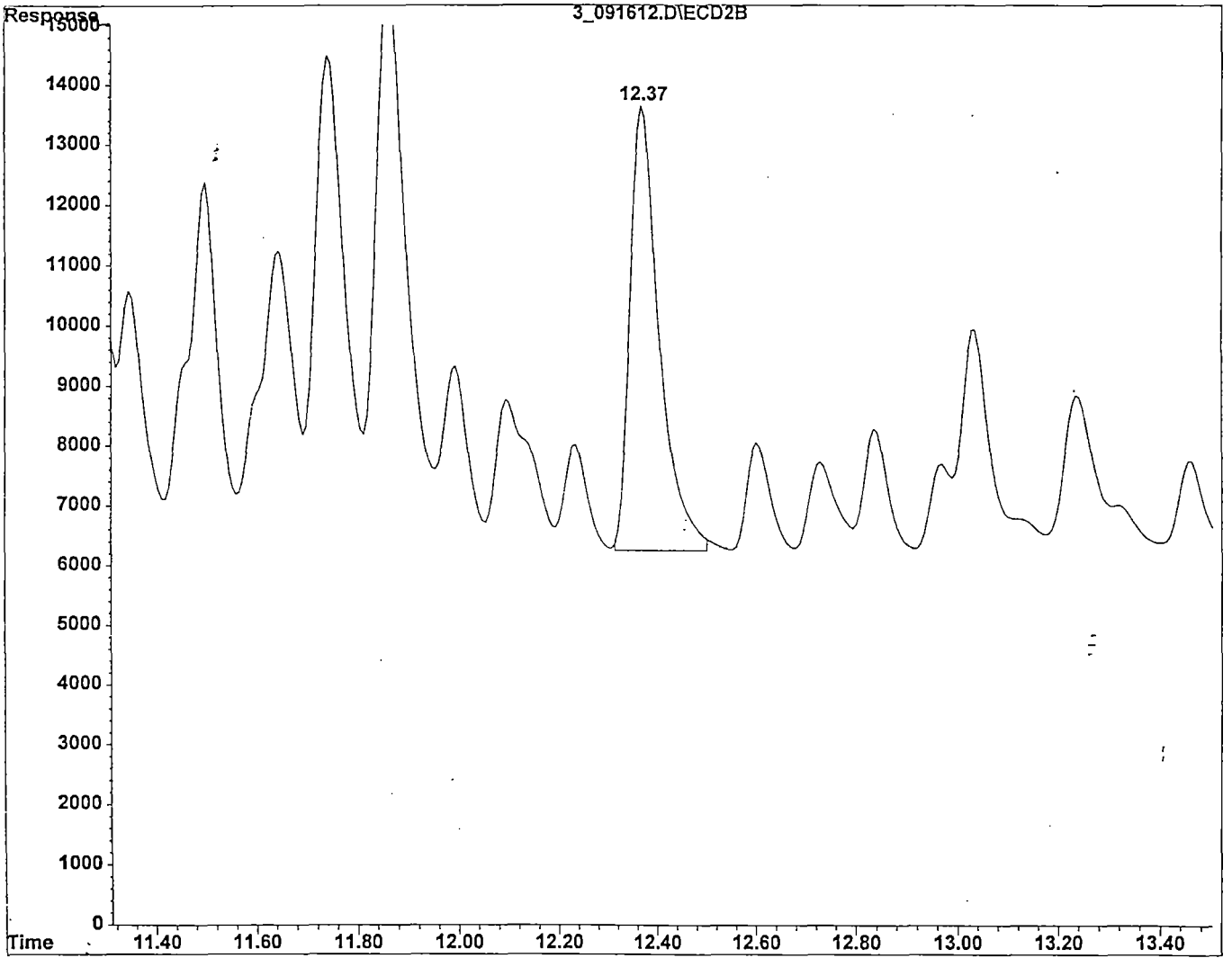
Aroclor-1242 {5} 12.31min area: 1052440 m BTB D91701

Integration Time Range: 12.25 - 12.46

F:\HPCHEM\HP\3\DATA\09_16_01\3_091612.D
Report generated: Mon Sep 17 11:25:12 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_16_01\3_091612.D
Date Acquired: 16 Sep 2001 15:37
Inst: HP_03 Operator ID: DDC
Name: AR1242L43E
Misc: 5-8-7
Method: F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 17 11:00 2001 Quant Results File: XPCBI16.RES



Aroclor-1242 {5} #2 12.37min area: 303260 m

Integration Time Range: 12.31 - 12.50

BTB
091701

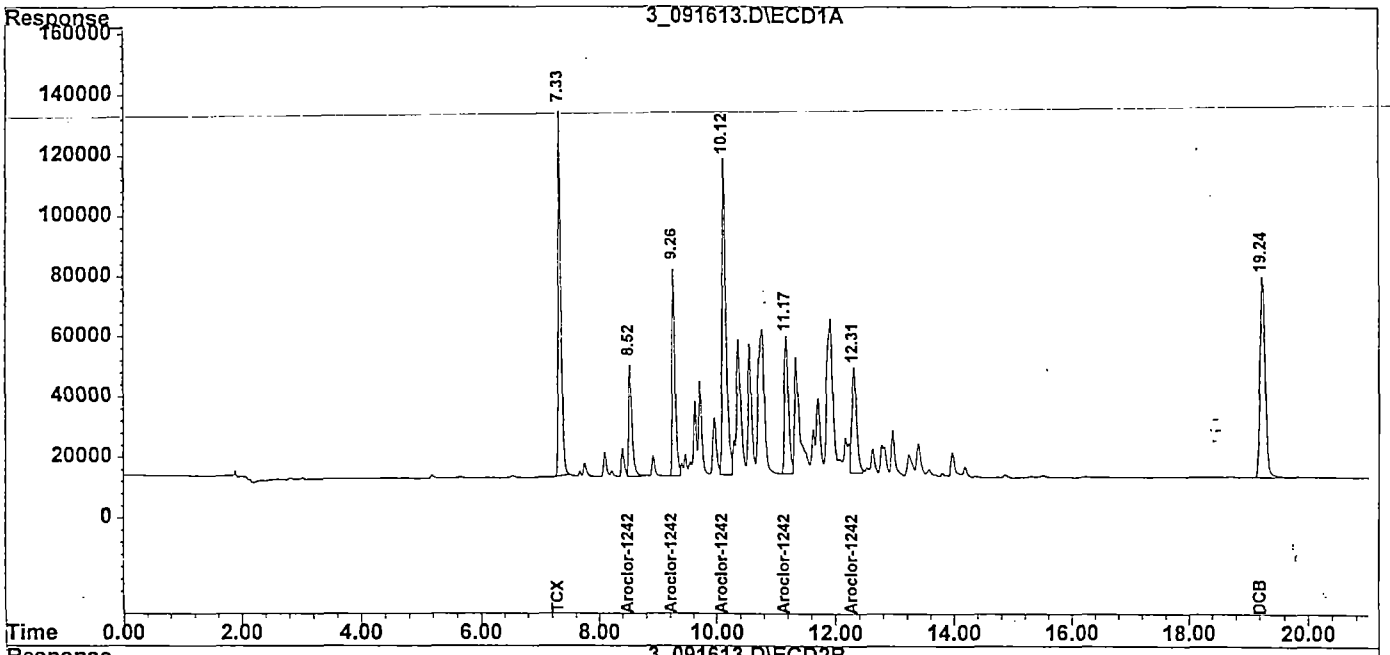
F:\HPCHEM\HP\3\DATA\09_16_01\3_091612.D
Report generated: Mon Sep 17 11:25:13 2001

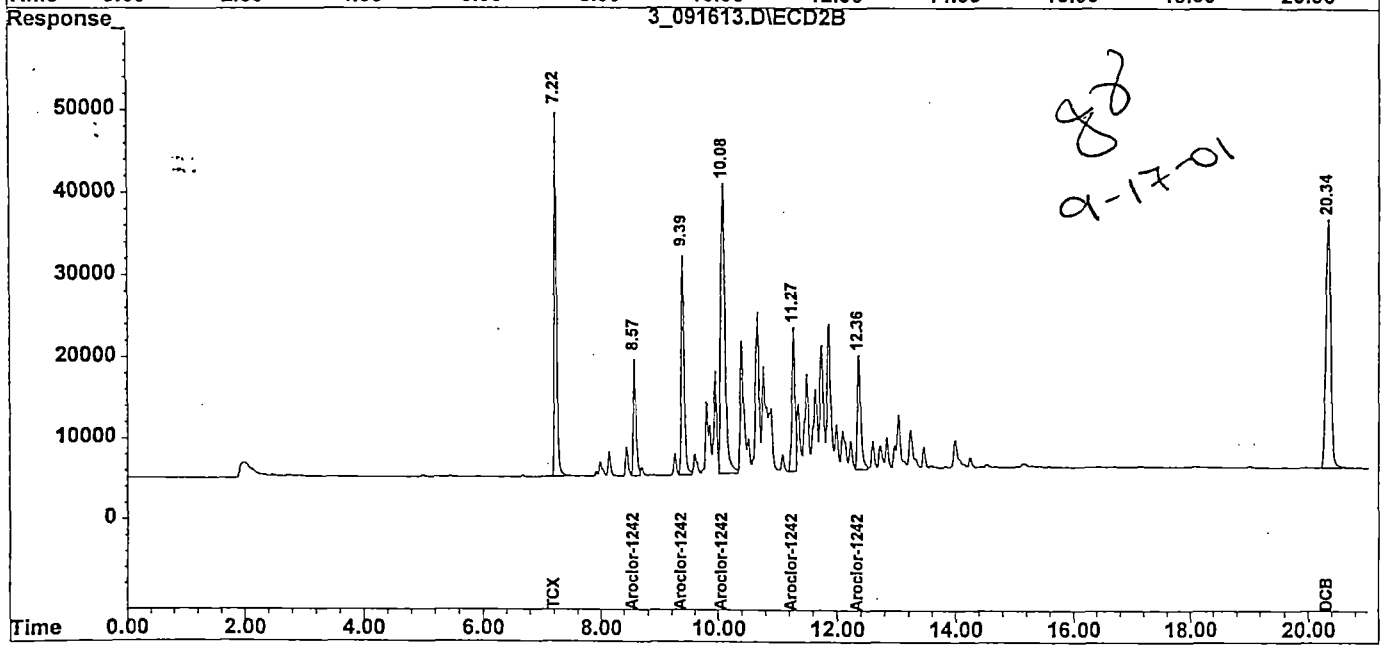
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091613.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091613.D\ECD2B.CH
Acq On : 16 Sep 2001 16:03 Operator: DDC
Sample : AR1242L53E Inst : HP_03
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 11:01 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





9-17-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091613.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091613.D\ECD2B.CH
Acq On : 16 Sep 2001 16:03 Operator: DDC
Sample : AR1242L53E Inst : HP_03
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 11:01 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

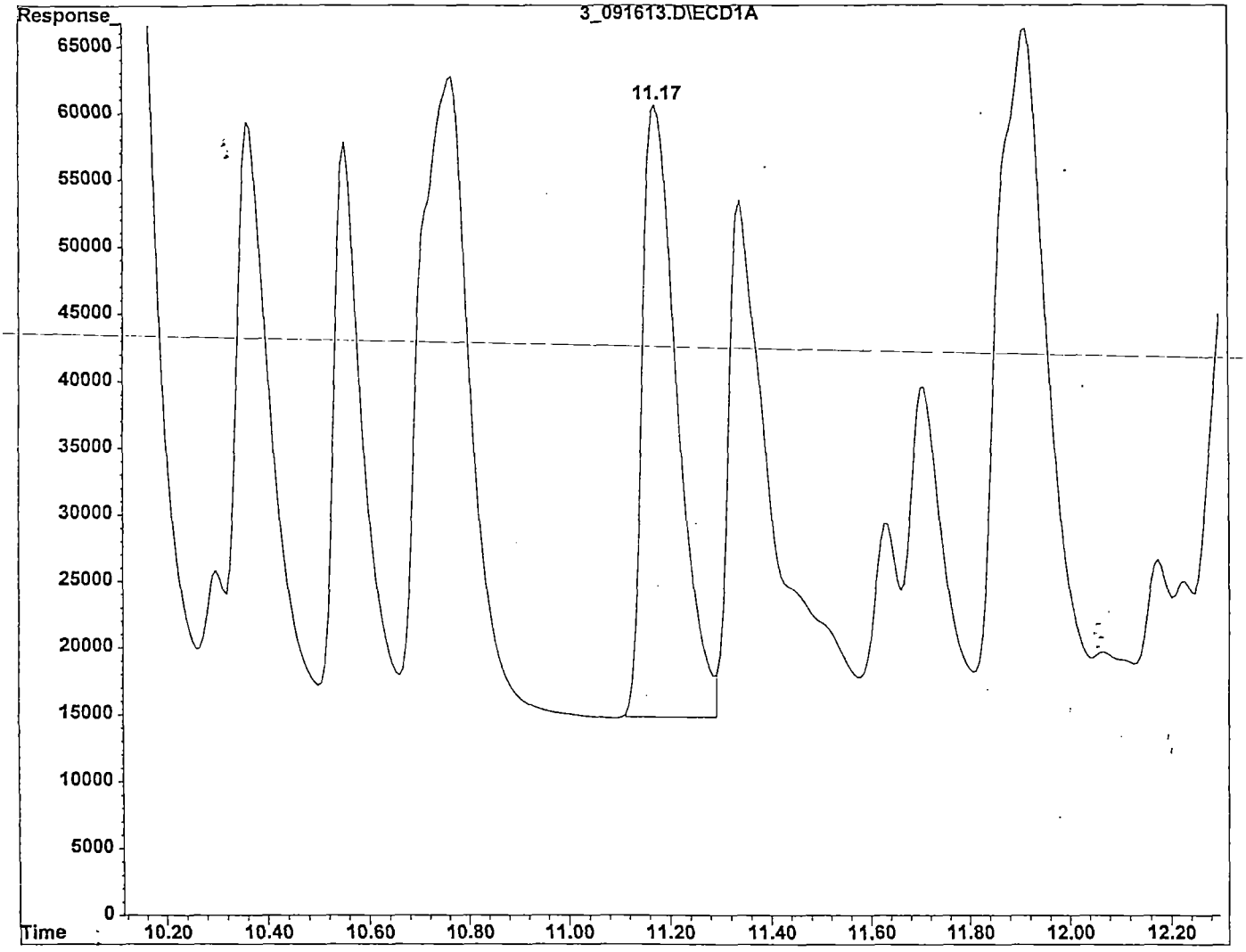
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	4012531	1282368	108.4 E	101.5 E
22)	S DCB	19.24	20.34	3716001	1693523	83.5	81.7
	Target Compounds:						
7)	L4 Aroclor-1242	8.53	8.57	1409990	439656	1814.1 E	1866.8
8)	L4 Aroclor-1242 {2}	9.26	9.39	2508637	922559	1816.5	1736.5 E
9)	L4 Aroclor-1242 {3}	10.13	10.09	4771597	1785504	3095.5	2953.2 E
10)	L4 Aroclor-1242 {4}	11.17	11.27	2183236	634512	2024.7m BTB	1858.4 E
11)	L4 Aroclor-1242 {5}	12.31	12.37	1927912	575144	2975.1mE 09/17/01	1422.8m # BTB 09/17/01
	Sum Aroclor-1242			12801373	4357375	11725.8	9837.6
	Average Aroclor-1242					2345.166	1967.529

(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\3\DATA\09_16_01\3_091613.D
Date Acquired: 16 Sep 2001 16:03
Inst: HP_03 Operator ID: DDC
Name: AR1242L53E
Misc: 5-7-7
Method: F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 17 11:01 2001 Quant Results File: XPCBI16.RES



Aroclor-1242 {4} 11.17min area: 2183236 m

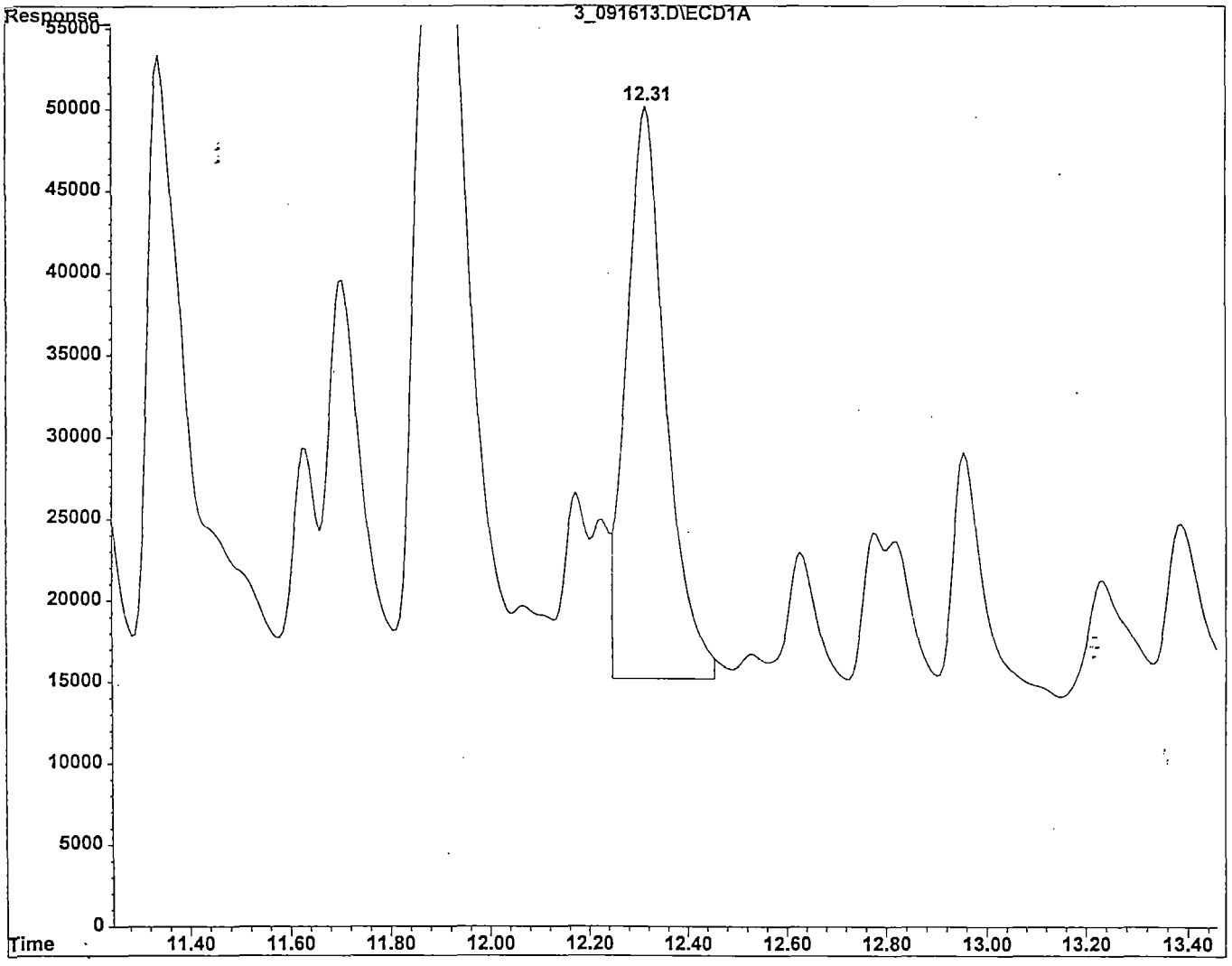
BTB 091701

Integration Time Range: 11.11 - 11.30

F:\HPCHEM\HP\3\DATA\09_16_01\3_091613.D
Report generated: Mon Sep 17 11:25:15 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_16_01\3_091613.D
Date Acquired: 16 Sep 2001 16:03
Inst: HP_03 Operator ID: DDC
Name: AR1242L53E
Misc: 5-7-7
Method: F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 17 11:01 2001 Quant Results File: XPCBI16.RES



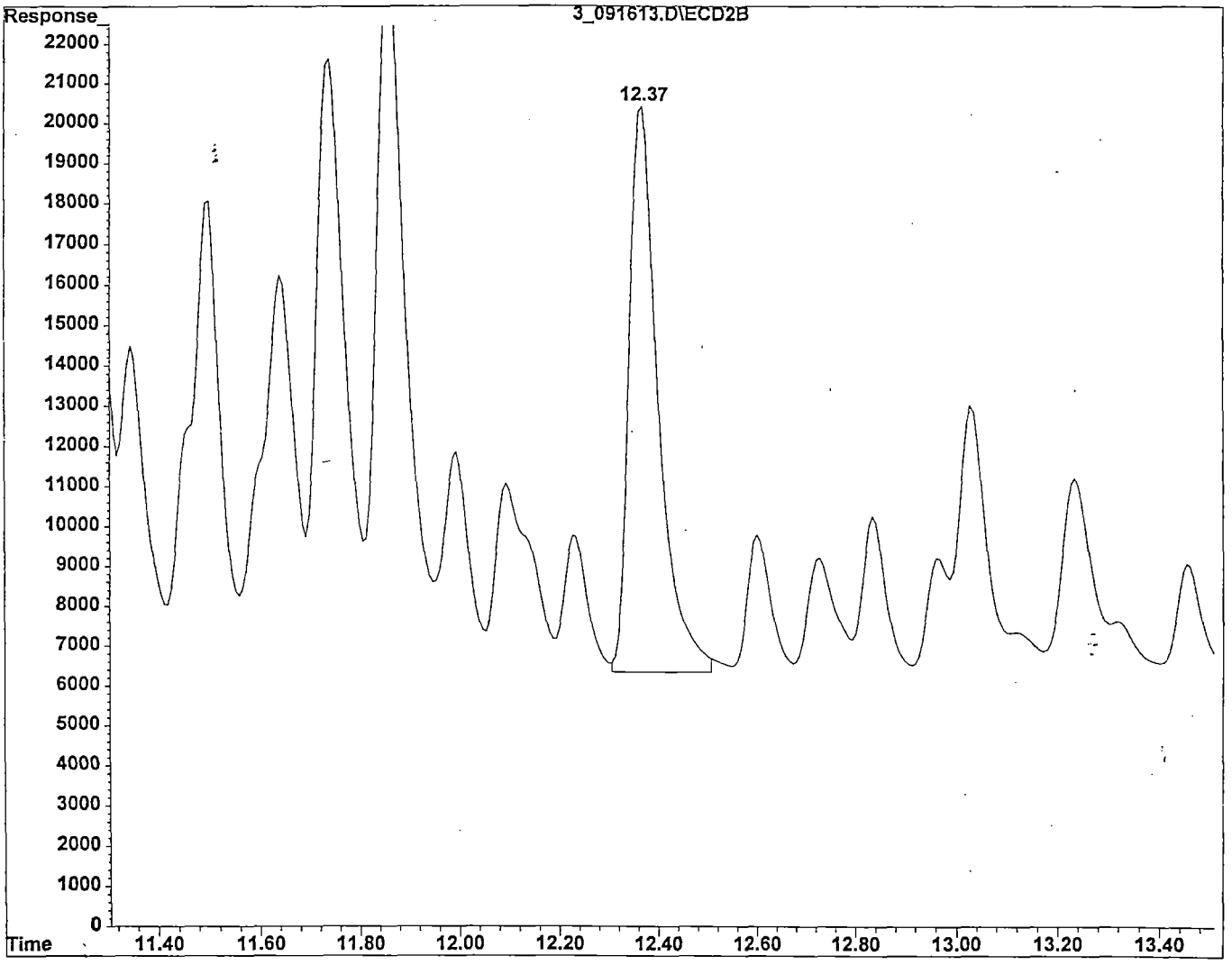
Aroclor-1242 {5} 12.31min area: 1927912 m BTB 091701

Integration Time Range: 12.25 - 12.46

F:\HPCHEM\HP\3\DATA\09_16_01\3_091613.D
Report generated: Mon Sep 17 11:25:15 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_16_01\3_091613.D
Date Acquired: 16 Sep 2001 16:03
Inst: HP_03 Operator ID: DDC
Name: AR1242L53E
Misc: 5-7-7
Method: F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 17 11:01 2001 Quant Results File: XPCBI16.RES



Aroclor-1242 {5} #2 12.37min area: 575144 m
BTB 091701

Integration Time Range: 12.31 - 12.51

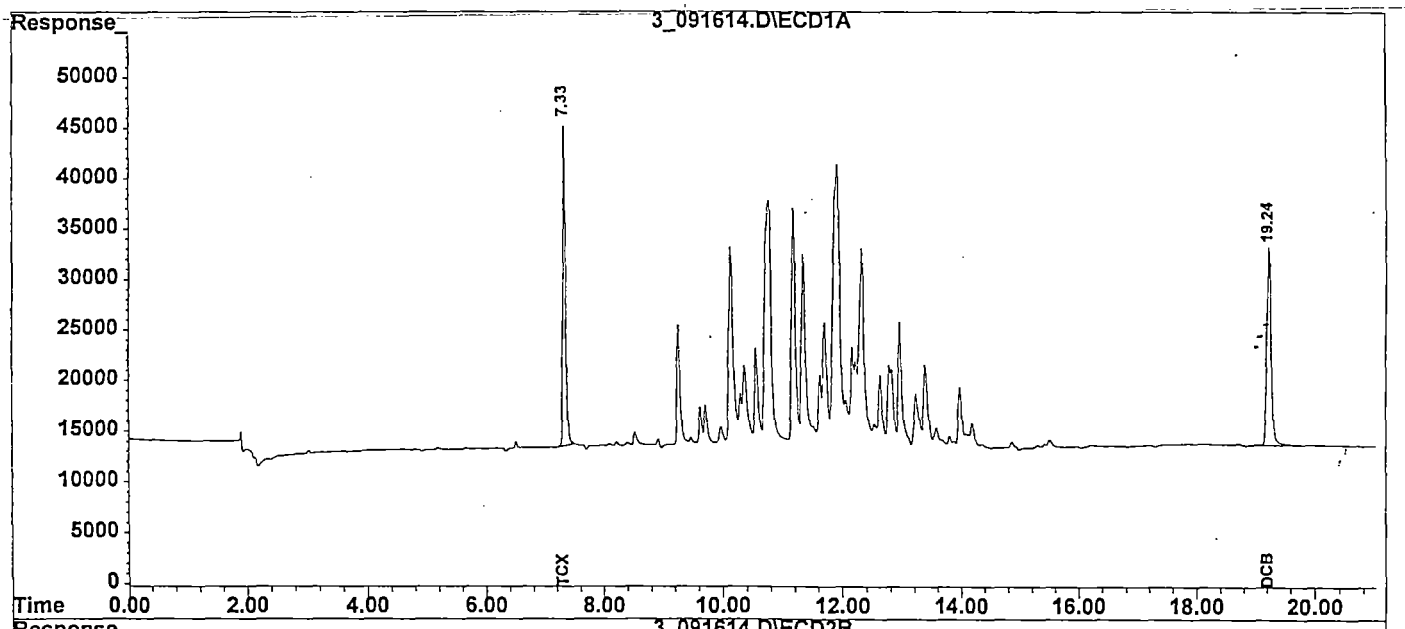
F:\HPCHEM\HP\3\DATA\09_16_01\3_091613.D
Report generated: Mon Sep 17 11:25:16 2001

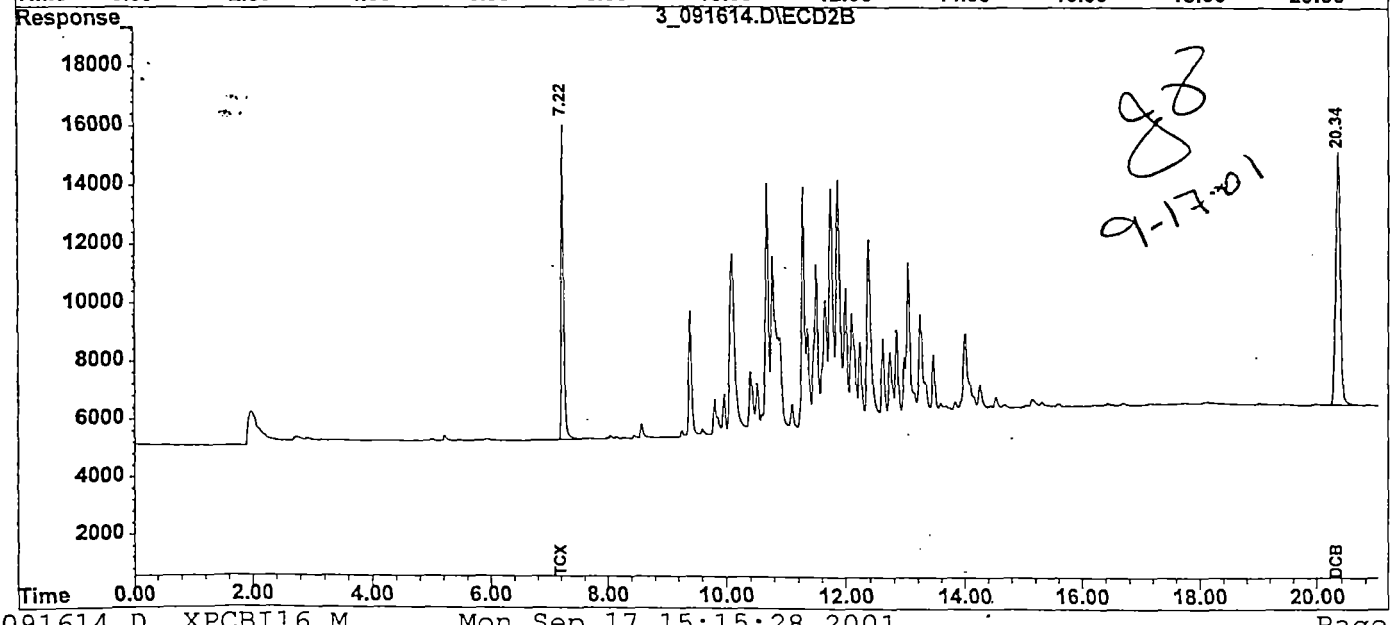
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091614.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091614.D\ECD2B.CH
Acq On : 16 Sep 2001 16:29 Operator: DDC
Sample : AR1248L33E Inst : HP_03
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 15:11 2001 Quant Results File: XPCBI16.RES
Quant Time: Sep 17 15:13 2001 Quant Results File: xspcbi16.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001

Multi-Component Method : f:\hpchem\hp\3\data\09_16_01\xspcbi16.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





gs
9-17-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091614.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091614.D\ECD2B.CH
Acq On : 16 Sep 2001 16:29 Operator: DDC
Sample : AR1248L33E Inst : HP_03
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 15:11 2001 Quant Results File: XPCBI16.RES
Multi Time: Sep 17 15:13 2001 Quant Results File: xspcbi16.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001

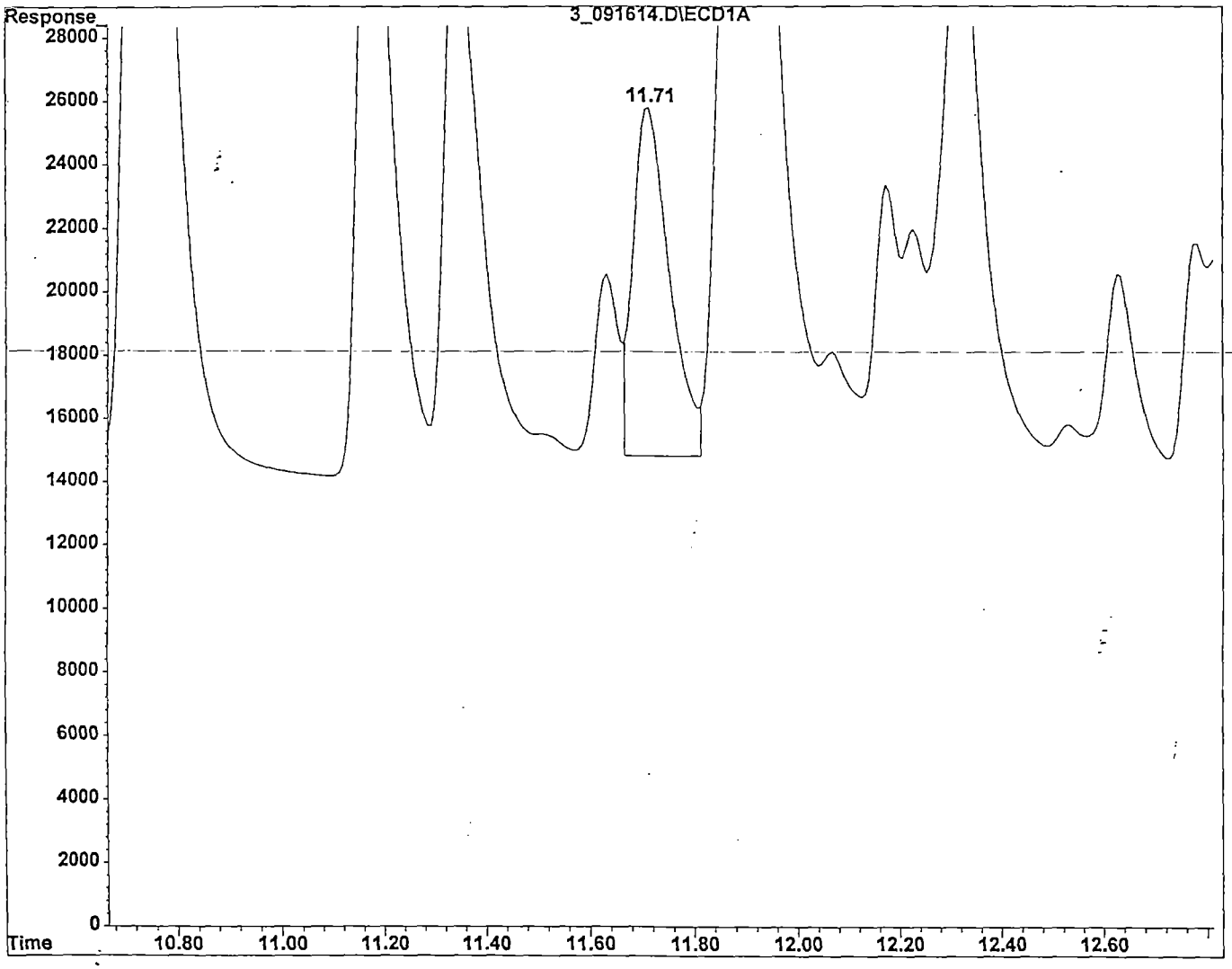
Multi-Component Method : f:\hpchem\hp\3\data\09_16_01\xspcbi16.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds:						
S TCX	7.33	7.22	1029821	307157	18.9	19.0
S DCB	19.24	20.34	1086286	468840	19.3	19.1
Target Compounds:						
Multi-Component Compounds:						
L5 Aroclor-1248	9.72	9.96	136032	41097	730.9m BTB 091701	572.5
L5 Aroclor-1248 {2}	10.55	10.40	384240	84701	740.1m	565.7
L5 Aroclor-1248 {3}	11.71	12.23	526572	88988	589.2m	487.3m BTB 091701
L5 Aroclor-1248 {4}	12.63	12.60	286592	95260	644.0m	543.7m
L5 Aroclor-1248 {5}	13.97	13.46	262868	74934	601.3m	532.9
Sum Aroclor-1248			1596304	384979	3305.5	2702.1
age Aroclor-1248					661.098	540.423

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_16_01\3_091614.D
Date Acquired: 16 Sep 2001 16:29
Inst: HP_03 Operator ID: DDC
Name: AR1248L33E
Misc: 5-424-6
Method: f:\hpchem\hp\3\data\09_16_01\xspcbi16.m
Title:
Quant Time: Sep 17 15:13 2001 Quant Results File: xspcbi16.RES



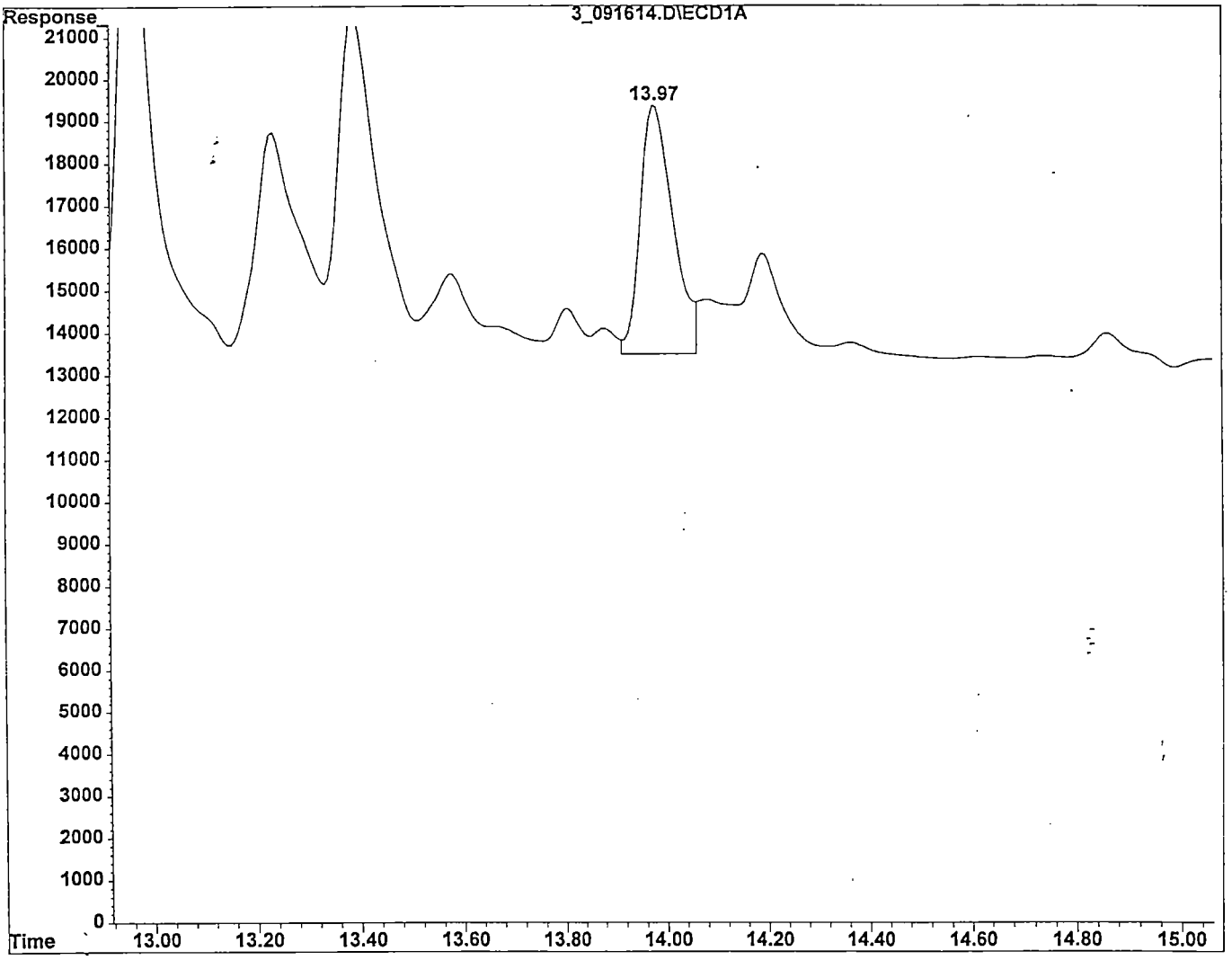
Aroclor-1248 {3} 11.71min area: 526572 m

BTB
091701

Integration Time Range: 11.67 - 11.81

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_16_01\3_091614.D
Date Acquired: 16 Sep 2001 16:29
Inst: HP_03 Operator ID: DDC
Name: AR1248L33E
Misc: 5-424-6
Method: f:\hpchem\hp\3\data\09_16_01\xspcbi16.m
Title:
Quant Time: Sep 17 15:13 2001 Quant Results File: xspcbi16.RES



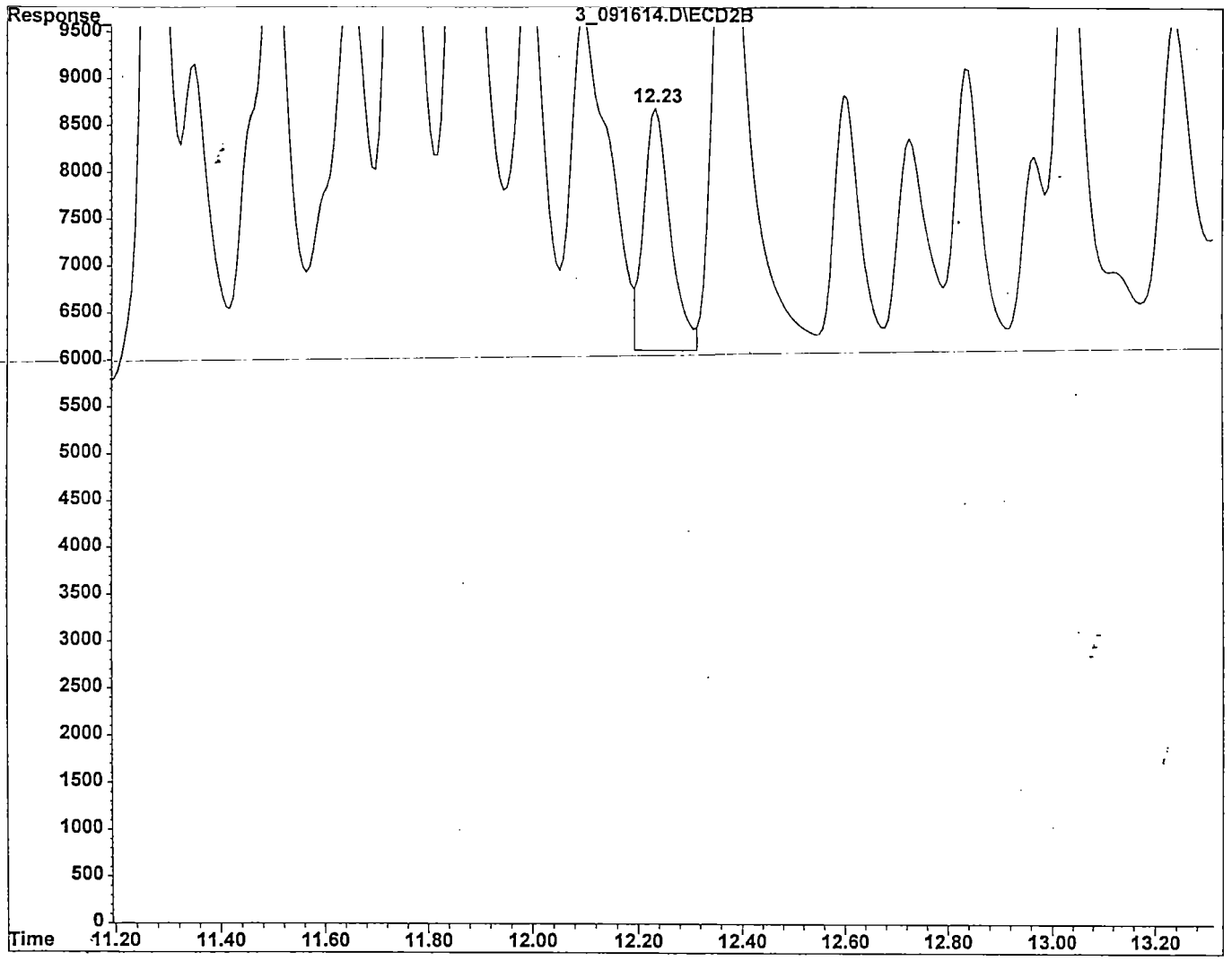
Aroclor-1248 {5} 13.97min area: 262868 m

Integration Time Range: 13.92 - 14.06

BTB 091701

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_16_01\3_091614.D
Date Acquired: 16 Sep 2001 16:29
Inst: HP_03 Operator ID: DDC
Name: AR1248L33E
Misc: 5-424-6
Method: f:\hpchem\hp\3\data\09_16_01\xspcbi16.m
Title:
Quant Time: Sep 17 15:13 2001 Quant Results File: xspcbi16.RES



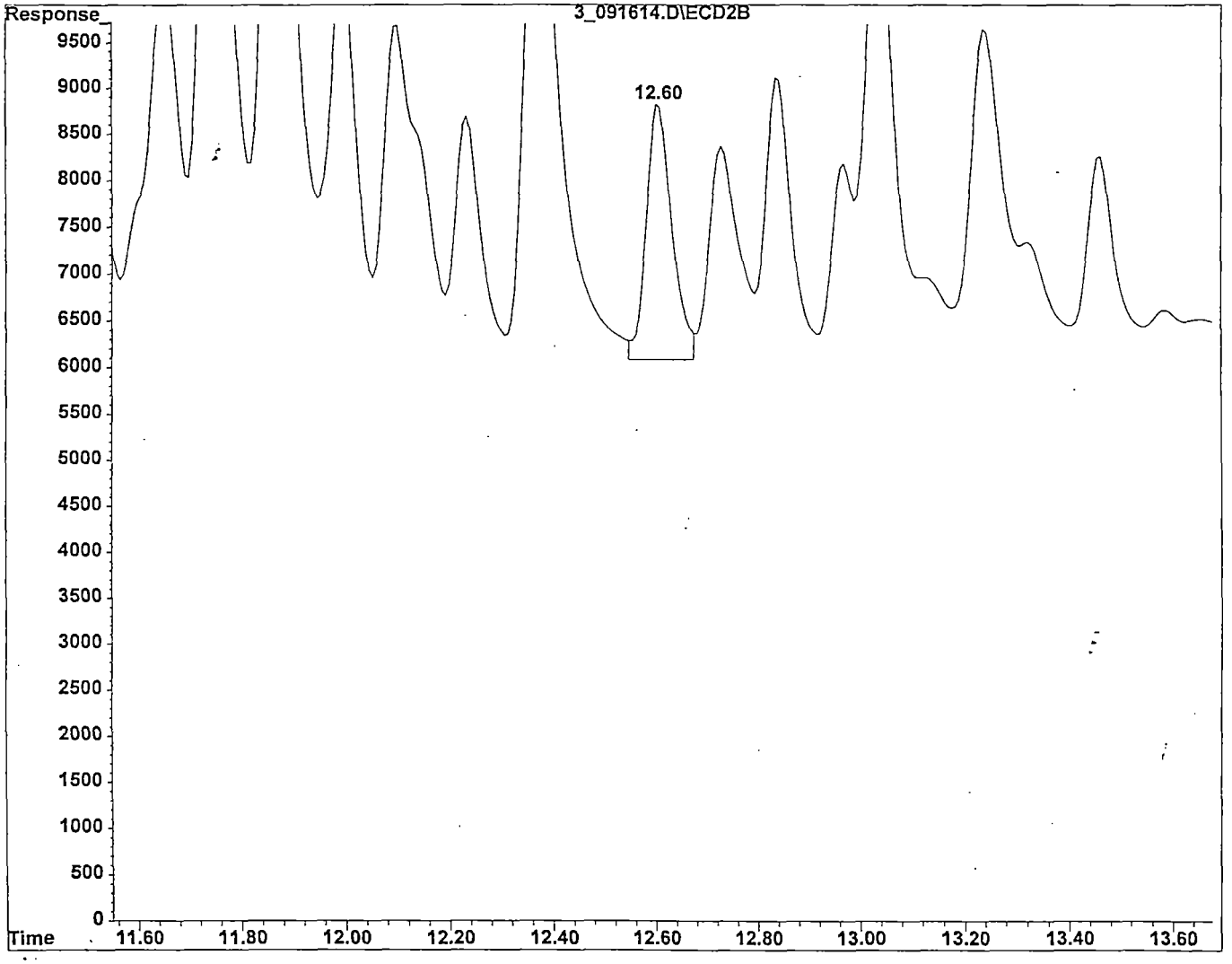
Aroclor-1248 {3} #2 12.23min area: 88988 m

Integration Time Range: 12.20 - 12.31

BTB
091701

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_16_01\3_091614.D
Date Acquired: 16 Sep 2001 16:29
Inst: HP_03 Operator ID: DDC
Name: AR1248L33E
Misc: 5-424-6
Method: f:\hpchem\hp\3\data\09_16_01\xspcbi16.m
Title:
Quant Time: Sep 17 15:13 2001 Quant Results File: xspcbi16.RES



Aroclor-1248 {4} #2 12.60min area: 95260 m

Integration Time Range: 12.55 - 12.68

BTB
091701

Response Factor Report HP_03

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

Calibration Files
L1 =3_091615.D L2 =3_091616.D L3 =3_091617.D
L4 =3_091618.D L5 =3_091619.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
12) Aroclor-1254	2.3	2.4	2.1	1.8	1.6	2.0 E3	16.95
13) Aroclor-1254 {2}	4.1	4.3	3.9	3.5	3.0	3.7 E3	13.13
14) Aroclor-1254 {3}	3.7	3.9	3.6	3.2	2.8	3.4 E3	12.31
15) Aroclor-1254 {4}	4.2	4.6	4.0	3.7	3.2	3.9 E3	13.36
16) Aroclor-1254 {5}	3.1	4.0	3.2	2.9	2.7	3.2 E3	15.95

Signal #2 Calibration Files
L1 =3_091615.D L2 =3_091616.D L3 =3_091617.D
L4 =3_091618.D L5 =3_091619.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
35) Aroclor-1254 #2	511.2	564.0	498.3	460.6	402.6	487.3	12.34
36) Aroclor-1254 {2} #2	1.2	1.3	1.1	1.0	0.9	1.1 E3	12.44
37) Aroclor-1254 {3} #2	1.6	1.7	1.6	1.3	1.2	1.5 E3	15.57
38) Aroclor-1254 {4} #2	871.7	926.3	825.4	756.8	678.9	811.8	11.94
39) Aroclor-1254 {5} #2	1.1	1.2	1.1	1.0	1.0	1.1 E3	9.51

(#) = Out of Range

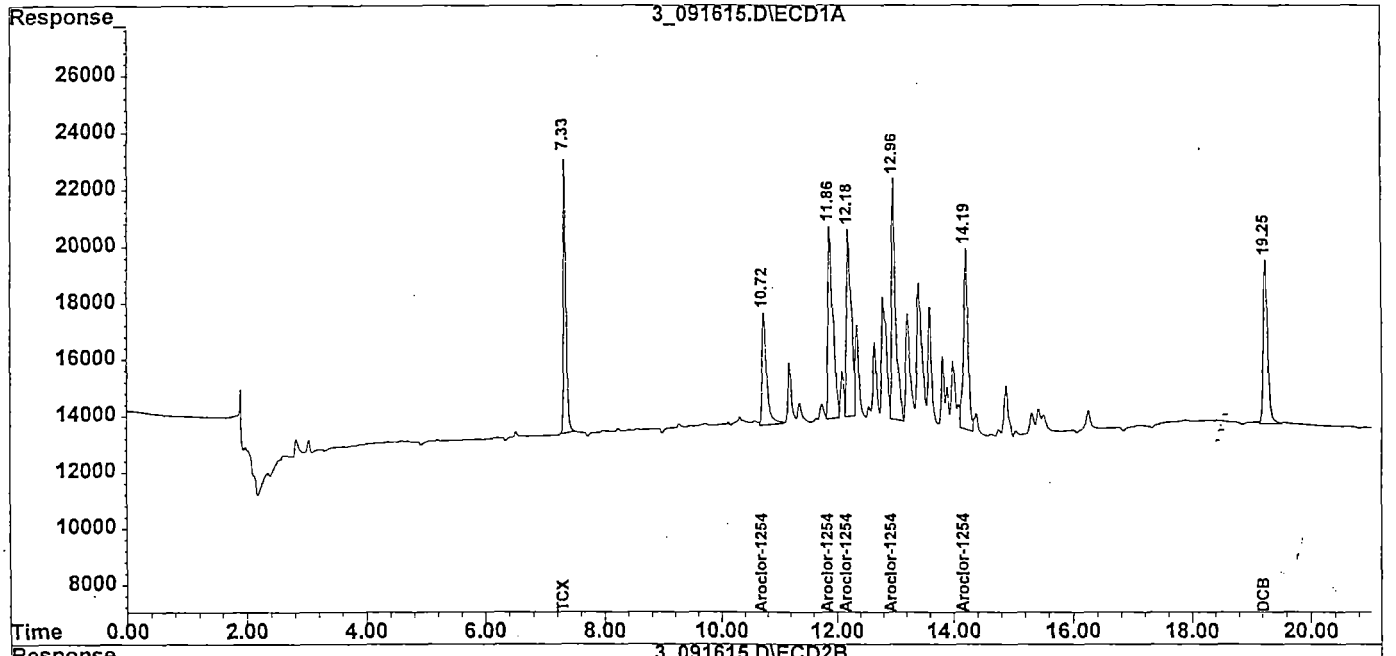
XPCBI16.M Mon Sep 17 11:30:23 2001

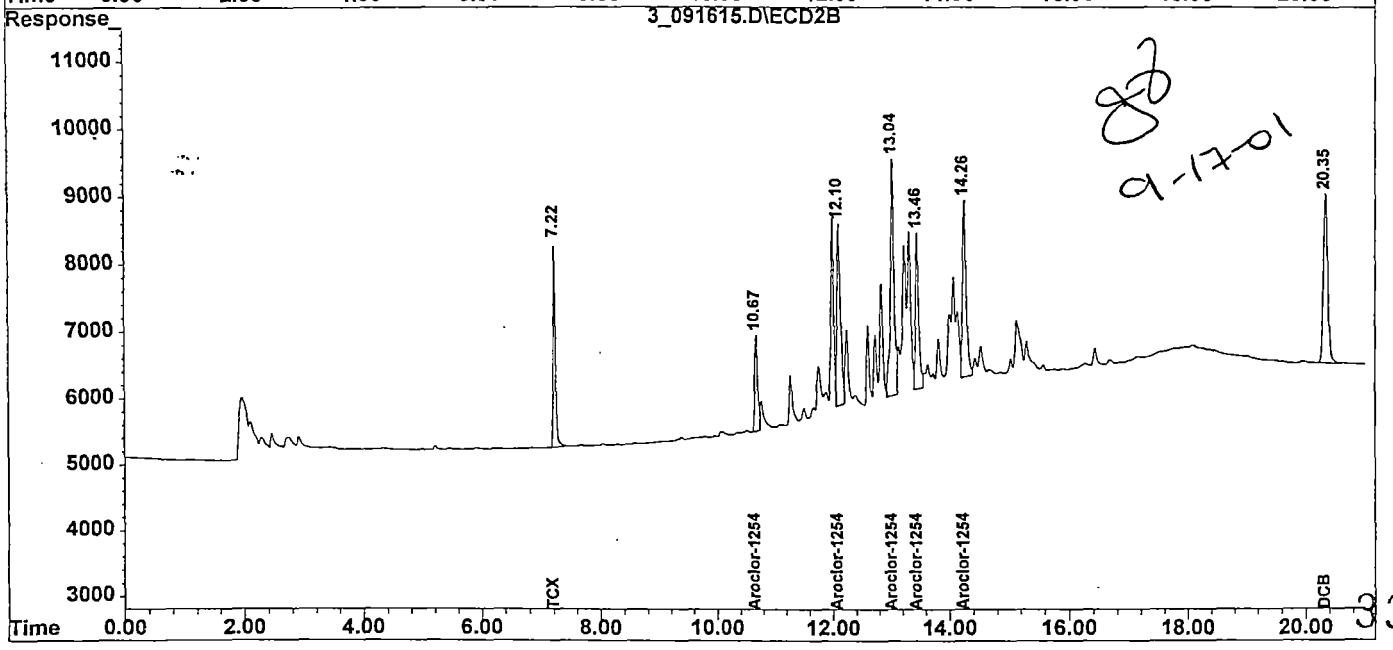
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091615.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091615.D\ECD2B.CH
Acq On : 16 Sep 2001 16:54 Operator: DDC
Sample : AR1254L13E Inst : HP_03
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 11:09 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





8
9-17-01

337

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091615.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091615.D\ECD2B.CH
Acq On : 16 Sep 2001 16:54 Operator: DDC
Sample : AR1254L13E Inst : HP_03
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 11:09 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	292578	83731	7.805	6.557
22)	S DCB	19.25	20.35	297359	128486	6.654	6.118
	Target Compounds:						
12)	L6 Aroclor-1254	10.72	10.68	228650	51115	171.1	137.6
13)	L6 Aroclor-1254 {2}	11.87	12.10	405641	117520	158.7	126.0
14)	L6 Aroclor-1254 {3}	12.18	13.04	368949	158619	148.7	125.7
15)	L6 Aroclor-1254 {4}	12.96	13.47	421099	87167	146.1	123.5
16)	L6 Aroclor-1254 {5}	14.20	14.26	314700	109650	151.4	117.1
	Sum Aroclor-1254			1739039	524071	775.9	629.9
	Average Aroclor-1254					155.186	125.989

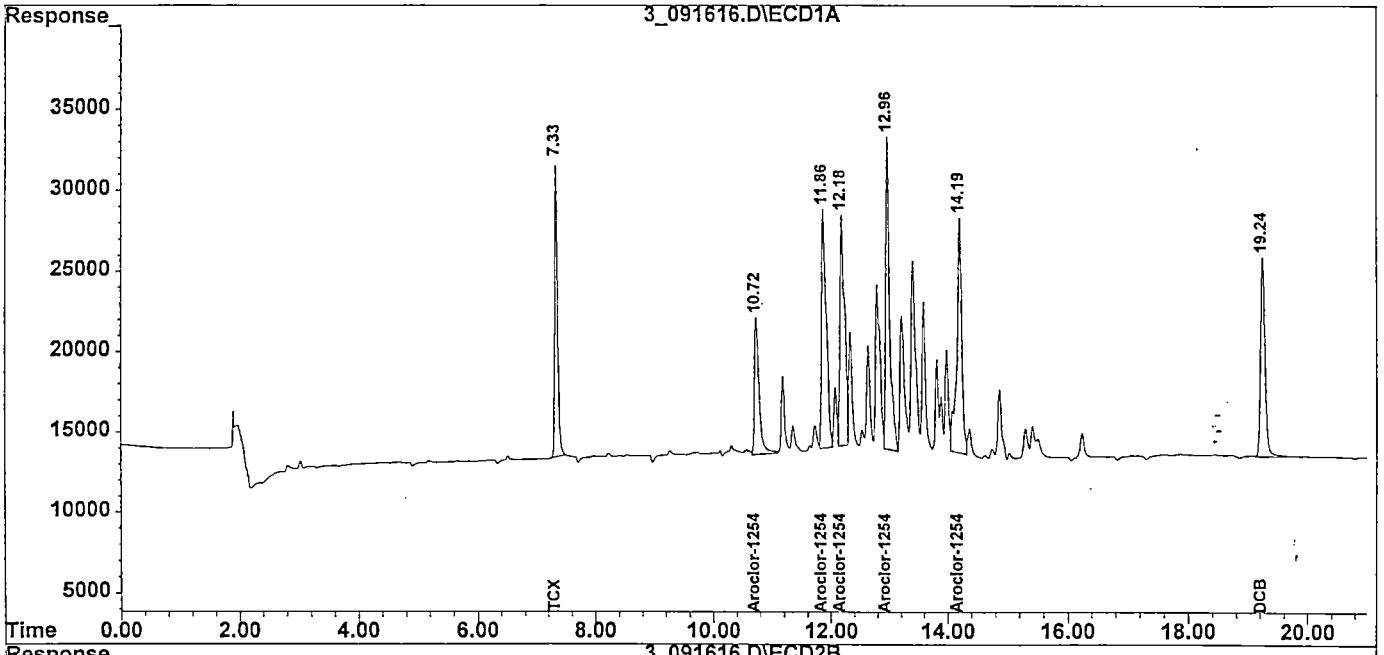
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

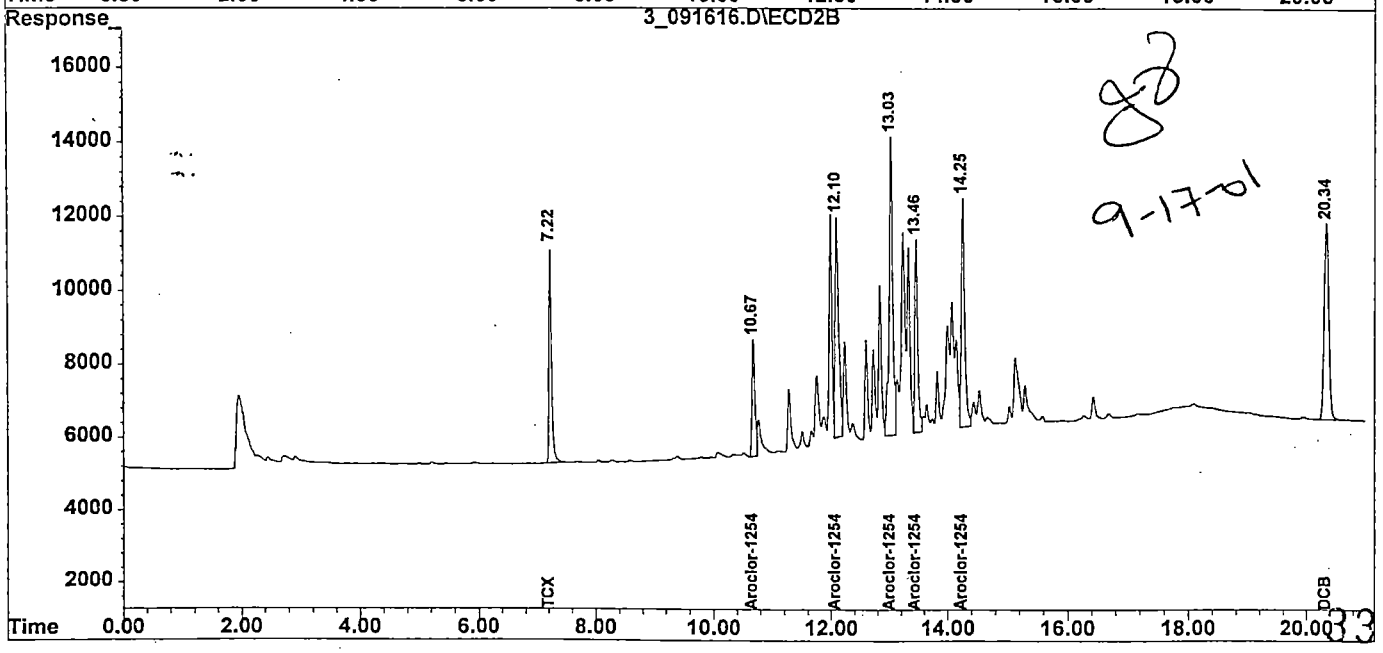
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091616.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091616.D\ECD2B.CH
Acq On : 16 Sep 2001 17:20 Operator: DDC
Sample : AR1254L23E Inst : HP_03
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 11:10 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





gB
9-17-01

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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091616.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091616.D\ECD2B.CH
Acq On : 16 Sep 2001 17:20 Operator: DDC
Sample : AR1254L23E Inst : HP_03
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 11:10 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds:						
1) S TCX	7.33	7.22	622943	182076	16.6	14.3
22) S DCB	19.24	20.34	667770	283063	14.9	13.5
Target Compounds:						
12) L6 Aroclor-1254	10.72	10.67	480083	112806	359.2	303.8
13) L6 Aroclor-1254 {2}	11.86	12.10	852105	250999	333.3	269.0
14) L6 Aroclor-1254 {3}	12.18	13.03	771423	345977	310.9	274.1
15) L6 Aroclor-1254 {4}	12.96	13.46	924133	185266	320.6	262.6
16) L6 Aroclor-1254 {5}	14.19	14.25	806352	247851	387.9	264.7 #
Sum Aroclor-1254			3834096	1142900	1711.9	1374.2
Average Aroclor-1254					342.389	274.847

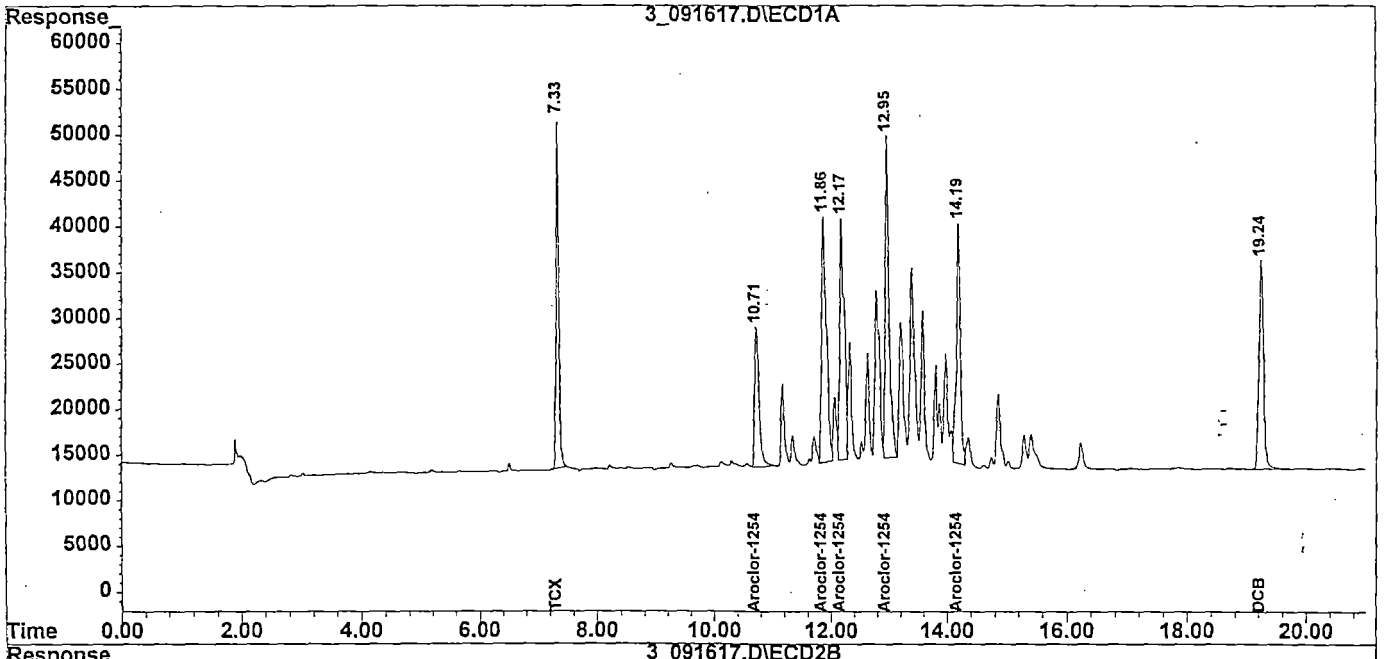
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

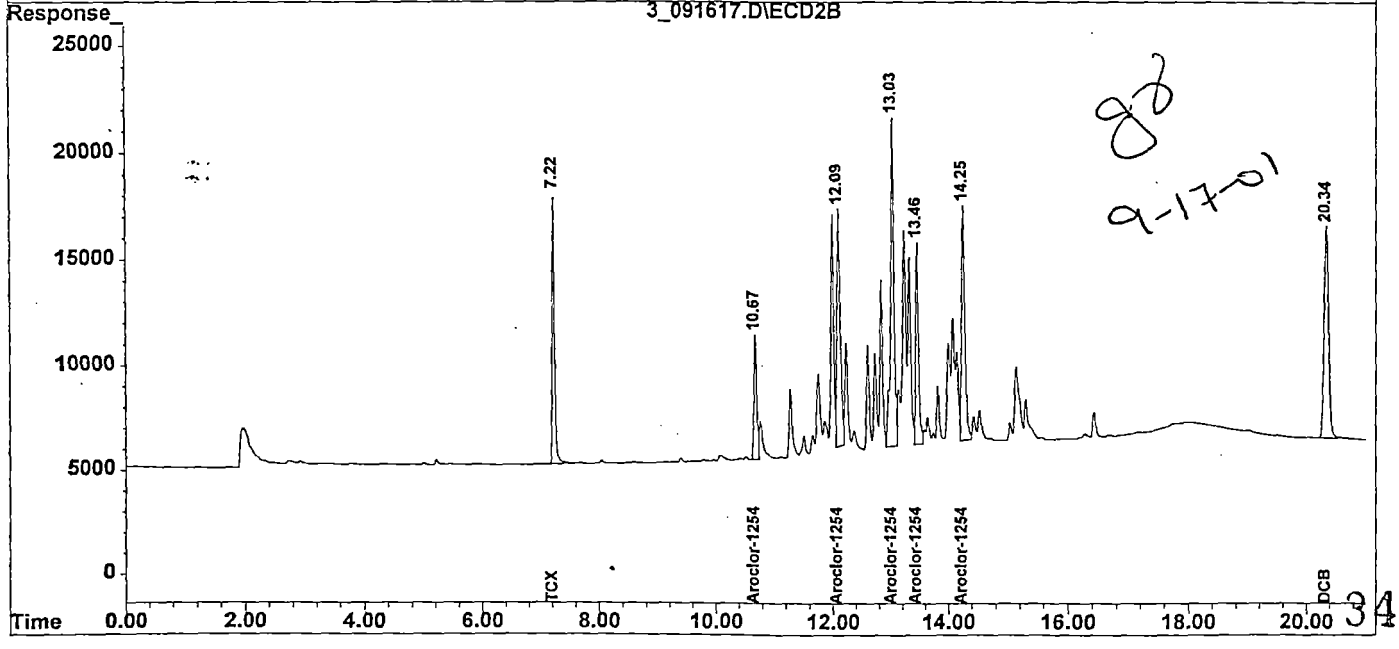
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091617.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091617.D\ECD2B.CH
Acq On : 16 Sep 2001 17:46 Operator: DDC
Sample : AR1254L33E Inst : HP_03
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 11:10 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





gb
9-17-01

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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091617.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091617.D\ECD2B.CH
Acq On : 16 Sep 2001 17:46 Operator: DDC
Sample : AR1254L33E Inst : HP_03
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 11:10 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	1199193	359688	32.0	28.2
22)	S DCB	19.24	20.34	1221907	533828	27.3	25.4
	Target Compounds:						
12)	L6 Aroclor-1254	10.72	10.67	820705	199313	614.1	536.7
13)	L6 Aroclor-1254 {2}	11.86	12.10	1562917	451684	611.4	484.2
14)	L6 Aroclor-1254 {3}	12.18	13.03	1435459	627170	578.5	497.0
15)	L6 Aroclor-1254 {4}	12.96	13.46	1601333	330175	555.5	467.9
16)	L6 Aroclor-1254 {5}	14.19	14.25	1278474	440134	615.1	470.1
	Sum Aroclor-1254			6698888	2048477	2974.5	2455.8
	Average Aroclor-1254					594.907	491.167

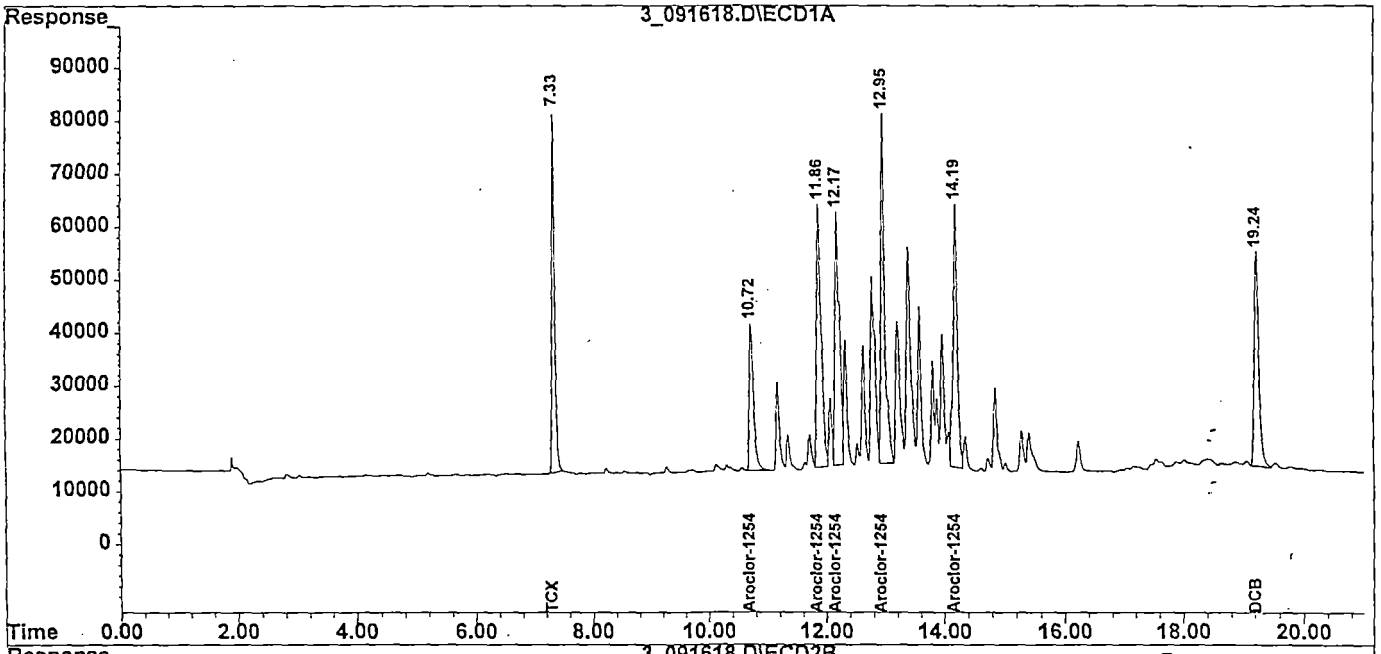
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

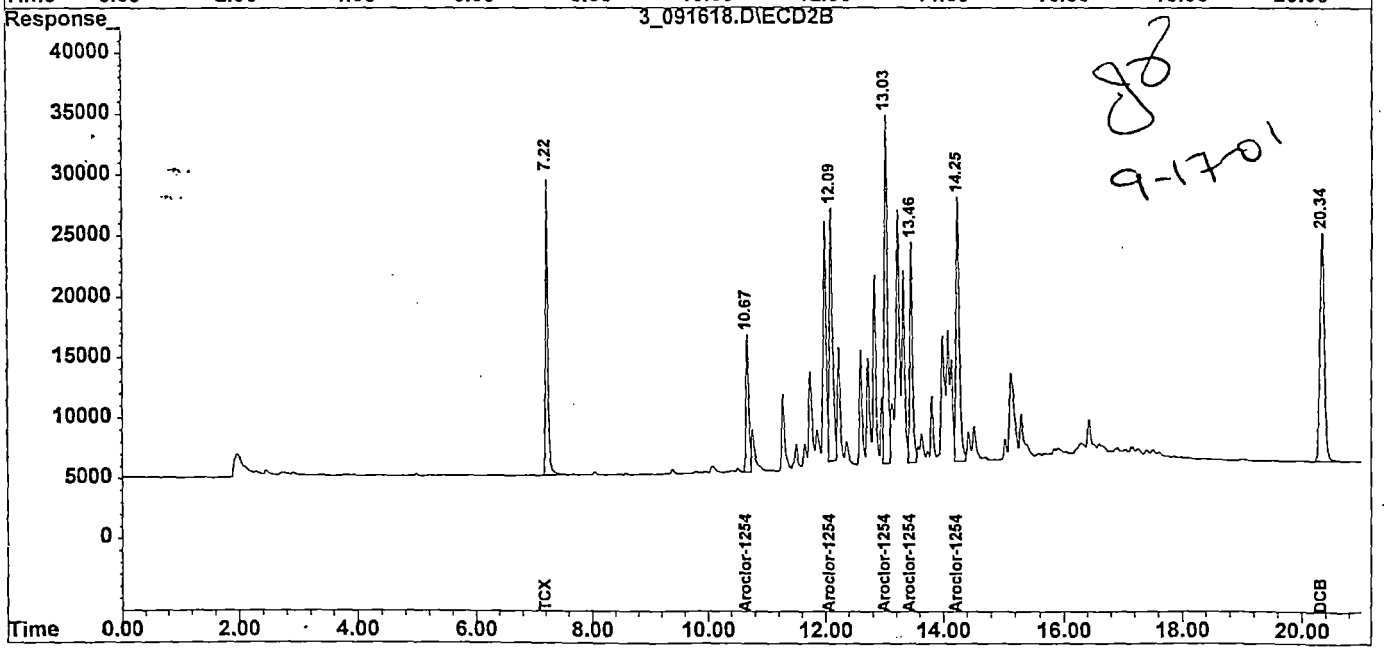
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091618.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091618.D\ECD2B.CH
Acq On : 16 Sep 2001 18:11 Operator: DDC
Sample : AR1254L43E Inst : HP_03
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 11:11 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





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9-17-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091618.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091618.D\ECD2B.CH
Acq On : 16 Sep 2001 18:11 Operator: DDC
Sample : AR1254L43E Inst : HP_03
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 11:11 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds:						
1) S TCX	7.33	7.22	2255388	700820	60.2	54.9
22) S DCB	19.25	20.35	2216204	991444	49.6	47.2
Target Compounds:						
12) L6 Aroclor-1254	10.72	10.67	1451044	368477	1085.7	992.3
13) L6 Aroclor-1254 {2}	11.86	12.09	2779878	817675	1087.5	876.5
14) L6 Aroclor-1254 {3}	12.18	13.03	2537869	1038424	1022.7	822.8
15) L6 Aroclor-1254 {4}	12.95	13.46	2934040	605425	1017.9	858.0
16) L6 Aroclor-1254 {5}	14.19	14.25	2346797	833321	1129.0	890.0
Sum Aroclor-1254			12049627	3663322	5342.8	4439.6
Average Aroclor-1254					1068.559	887.912

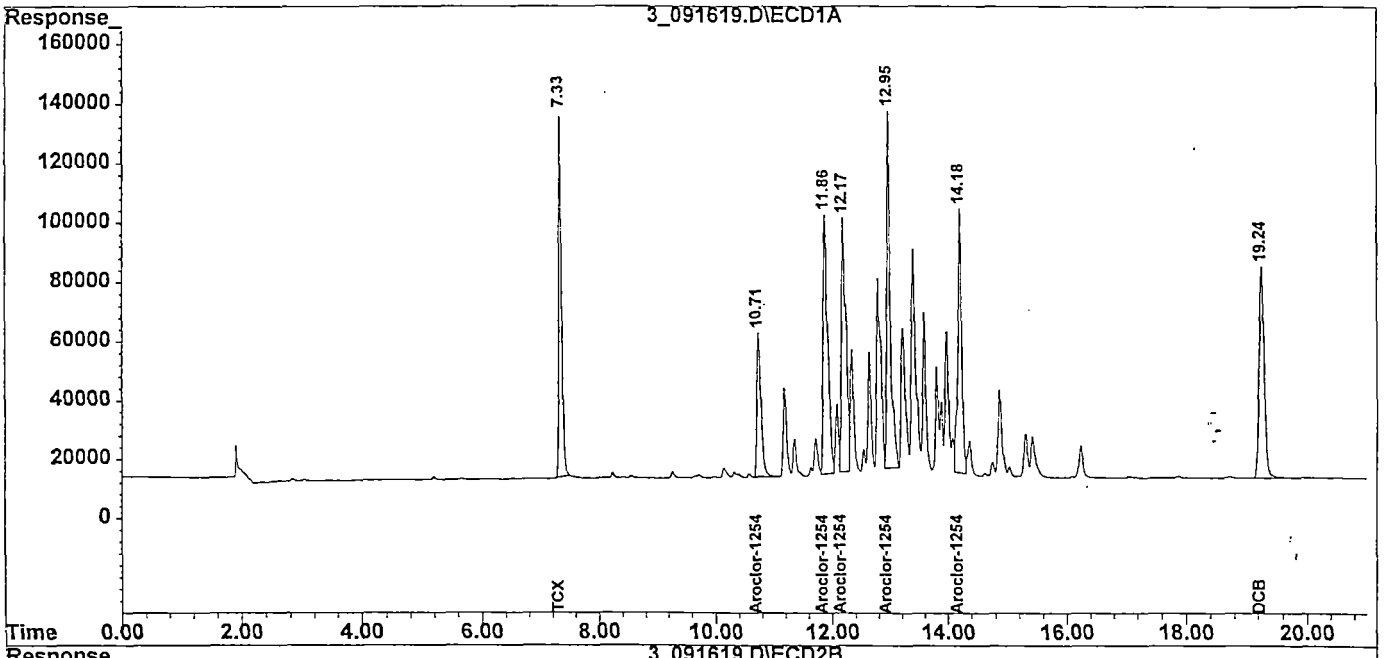
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

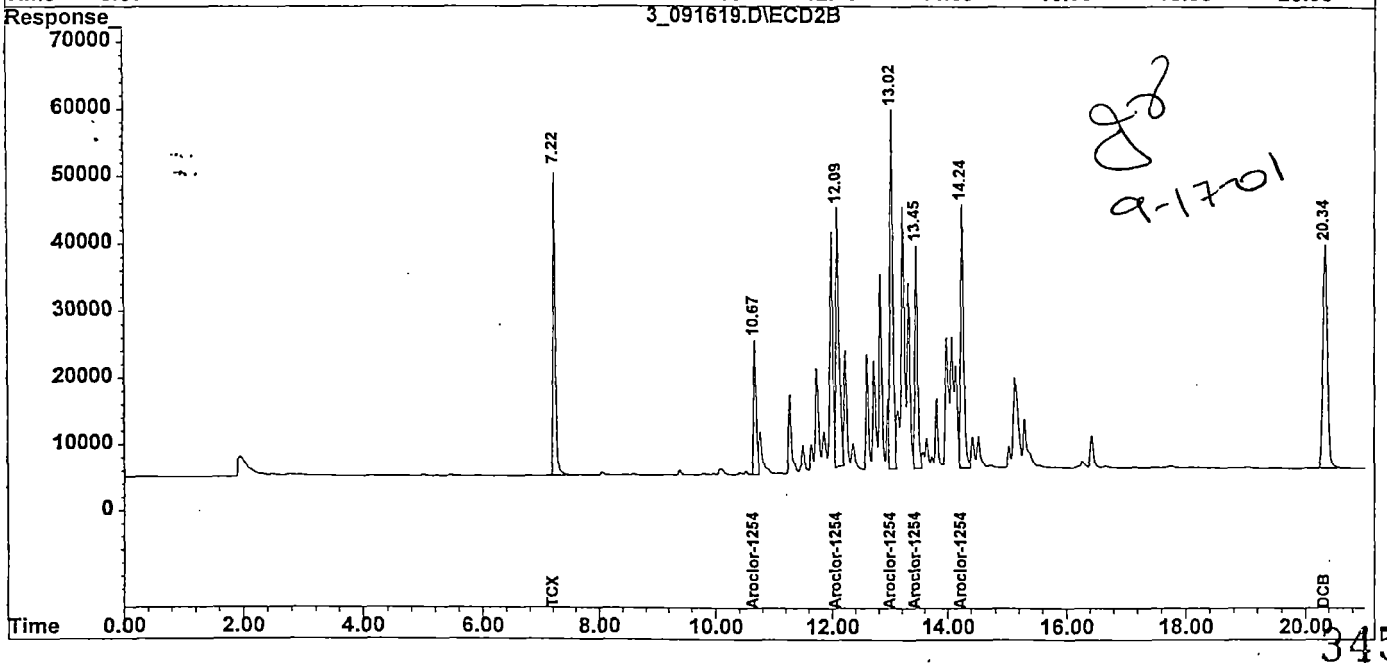
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091619.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091619.D\ECD2B.CH
Acq On : 16 Sep 2001 18:37 Operator: DDC
Sample : AR1254L53E Inst : HP_03
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 11:11 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





9-17-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091619.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091619.D\ECD2B.CH
Acq On : 16 Sep 2001 18:37 Operator: DDC
Sample : AR1254L53E Inst : HP_03
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 11:11 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	4159402	1343579	111.0 E	105.2 E
22)	S DCB	19.24	20.34	4036729	1814523	90.3 E	86.4 E
	Target Compounds:						
12)	L6 Aroclor-1254	10.72	10.67	2497264	644161	1868.5 E	1734.7
13)	L6 Aroclor-1254 {2}	11.86	12.09	4854395	1448366	1899.1	1552.5
14)	L6 Aroclor-1254 {3}	12.17	13.02	4514712	1873541	1819.3 E	1484.5 E
15)	L6 Aroclor-1254 {4}	12.95	13.46	5175198	1086303	1795.4	1539.5 E
16)	L6 Aroclor-1254 {5}	14.18	14.25	4282756	1529194	2060.4	1633.2 E
	Sum Aroclor-1254			21324326	6581565	9442.7	7944.4
	Average Aroclor-1254					1888.530	1588.883

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

Response Factor Report HP_03

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

Calibration Files
L1 =3_091620.D L2 =3_091621.D L3 =3_091622.D
L4 =3_091623.D L5 =3_091624.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
1) TCX	58.0	56.5	56.4	50.9	49.3	54.2 E3	7.13
2) Aroclor-1016	1.6	1.5	1.4	1.2	1.1	1.4 E3	16.27
3) Aroclor-1016 {2}	3.1	2.8	2.6	2.2	2.0	2.5 E3	16.53
4) Aroclor-1016 {3}	5.2	5.2	5.0	4.3	3.9	4.7 E3	12.43
5) Aroclor-1016 {4}	4.5	4.1	3.8	3.2	2.8	3.7 E3	18.31
6) Aroclor-1016 {5}	2.1	2.1	2.1	1.8	1.7	2.0 E3	10.09
17) Aroclor-1260	2.5	2.3	2.2	1.9	1.7	2.1 E3	14.83
18) Aroclor-1260 {2}	4.1	3.5	3.3	2.8	2.6	3.2 E3	18.46
19) Aroclor-1260 {3}	2.3	2.2	2.2	2.0	1.8	2.1 E3	9.78
20) Aroclor-1260 {4}	5.2	5.0	4.8	4.4	4.0	4.7 E3	10.47
21) Aroclor-1260 {5}	3.8	3.8	3.7	3.4	3.1	3.6 E3	8.42
22) DCB	61.8	60.5	57.5	53.0	48.4	56.3 E3	9.89

Signal #2 Calibration Files
L1 =3_091620.D L2 =3_091621.D L3 =3_091622.D
L4 =3_091623.D L5 =3_091624.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
24) TCX #2	16.3	16.3	16.9	15.9	15.7	16.2 E3	3.03
25) Aroclor-1016 #2	412.8	409.4	406.7	361.3	333.5	384.7	9.24
26) Aroclor-1016 {2} #2	999.0	951.0	924.1	811.8	741.0	885.4	11.98
27) Aroclor-1016 {3} #2	1.8	1.8	1.8	1.6	1.5	1.7 E3	8.65
28) Aroclor-1016 {4} #2	799.8	819.8	848.5	767.4	714.5	790.0	6.52
29) Aroclor-1016 {5} #2	553.4	541.0	542.5	498.3	474.5	521.9	6.48
40) Aroclor-1260 #2	1.4	1.4	1.3	1.2	1.0	1.3 E3	13.31
41) Aroclor-1260 {2} #2	921.4	925.8	850.8	745.4	662.9	821.3	13.97
42) Aroclor-1260 {3} #2	1.1	1.1	1.1	1.1	1.0	1.1 E3	7.07
43) Aroclor-1260 {4} #2	1.2	1.1	1.1	1.1	1.0	1.1 E3	6.16
44) Aroclor-1260 {5} #2	779.7	805.5	800.3	775.3	741.1	780.4	3.27
45) DCB #2	26.2	25.8	25.5	23.5	21.6	24.5 E3	7.95

(#) = Out of Range

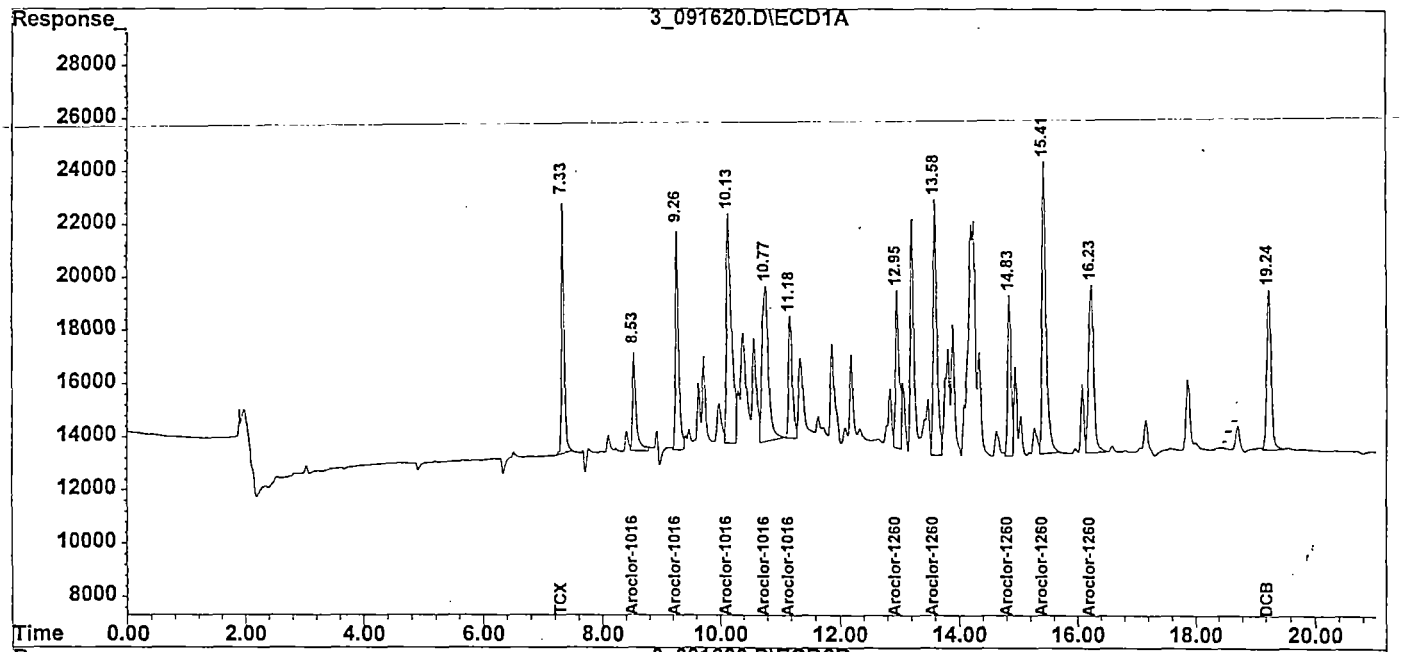
XPCBI16.M Mon Sep 17 15:32:24 2001

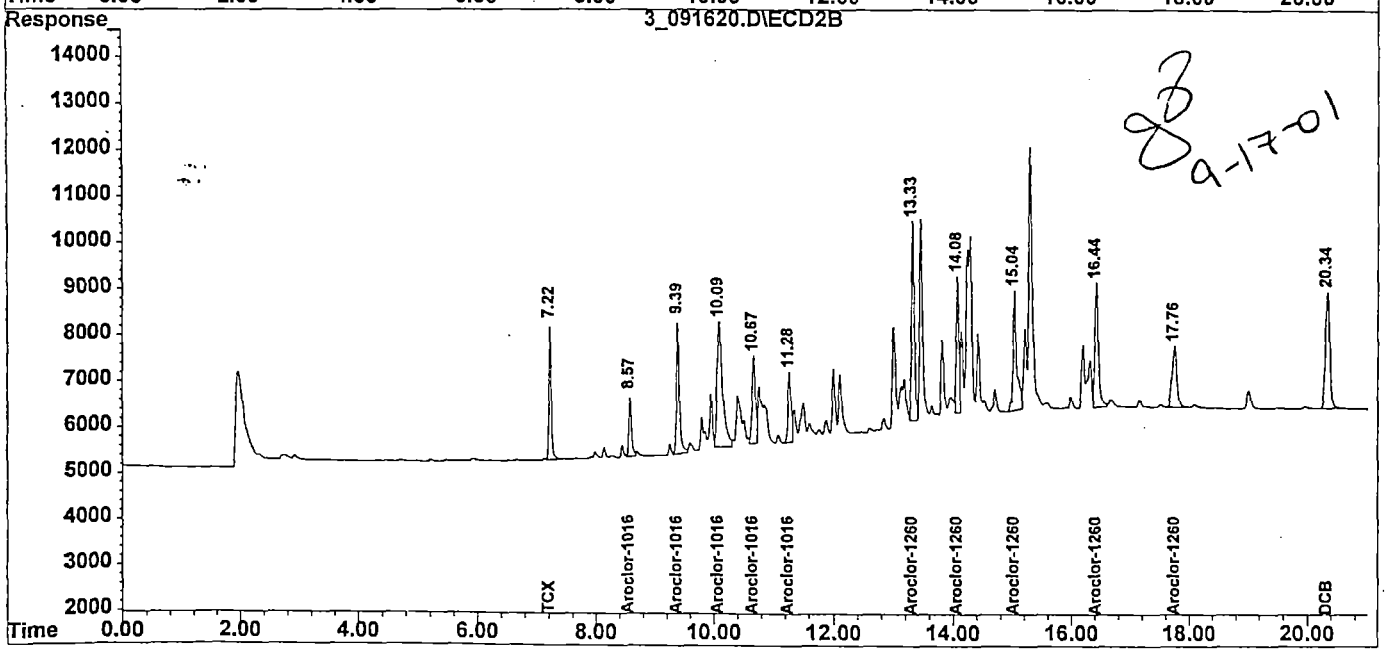
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091620.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091620.D\ECD2B.CH
Acq On : 16 Sep 2001 19:02 Operator: DDC
Sample : AR1660L13E Inst : HP_03
Misc : 5-212-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 15:26 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





9-17-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091620.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091620.D\ECD2B.CH
Acq On : 16 Sep 2001 19:02 Operator: DDC
Sample : AR1660L13E Inst : HP_03
Misc : 5-212-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 15:26 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

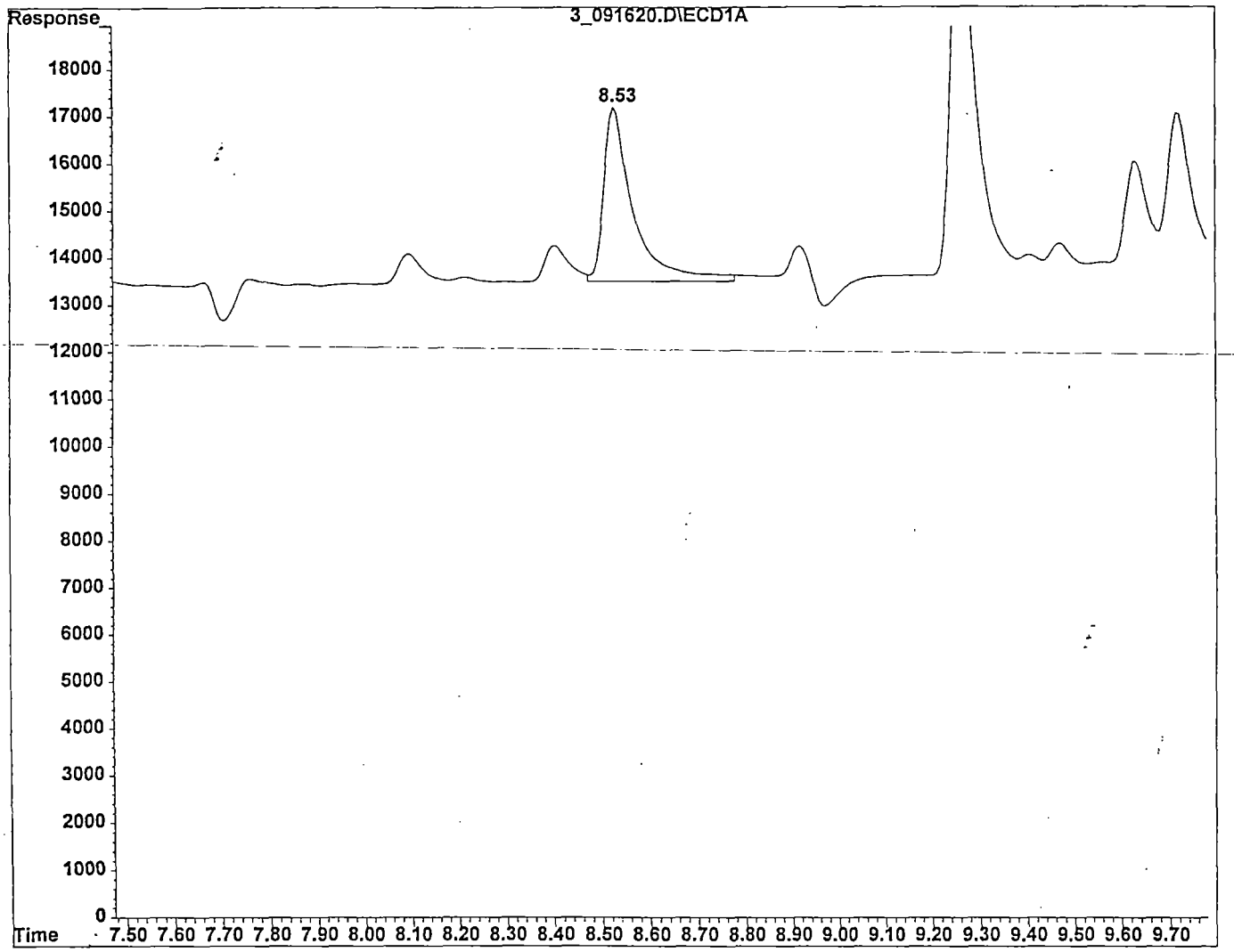
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	290000	81308	5.333	5.017
22)	S DCB	19.24	20.34	309189	131064	5.496	5.348
	Target Compounds:						
2)	L1 Aroclor-1016	8.53	8.57	159380	41277	64.2m BTB	56.4
3)	L1 Aroclor-1016 {2}	9.26	9.39	305852	99899	121.7m 091701	112.9
4)	L1 Aroclor-1016 {3}	10.13	10.09	516088	179396	134.6m	180.4m # BTB
5)	L1 Aroclor-1016 {4}	10.77	10.67	454234	79976	214.6	107.3m # 091701
6)	L1 Aroclor-1016 {5}	11.18	11.28	208624	55341	71.4m	45.3 #
	Sum Aroclor-1016			1644178	455889	606.5	502.3
	Average Aroclor-1016					121.297	100.465
17)	L7 Aroclor-1260	12.96	13.33	254520	139000	119.2	111.7m
18)	L7 Aroclor-1260 {2}	13.58	14.08	408700	92136	125.1m	109.4m
19)	L7 Aroclor-1260 {3}	14.84	15.04	227429	114669	109.5	106.2
20)	L7 Aroclor-1260 {4}	15.42	16.44	522946	116683	111.9	105.4
21)	L7 Aroclor-1260 {5}	16.23	17.77	384221	77966	107.9	99.9
	Sum Aroclor-1260			1797816	540454	573.6	532.6
	Average Aroclor-1260					114.722	106.522

(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\3\DATA\09_16_01\3_091620.D
Date Acquired: 16 Sep 2001 19:02
Inst: HP_03 Operator ID: DDC
Name: AR1660L13E
Misc: 5-212-7
Method: F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 17 15:26 2001 Quant Results File: XPCBI16.RES



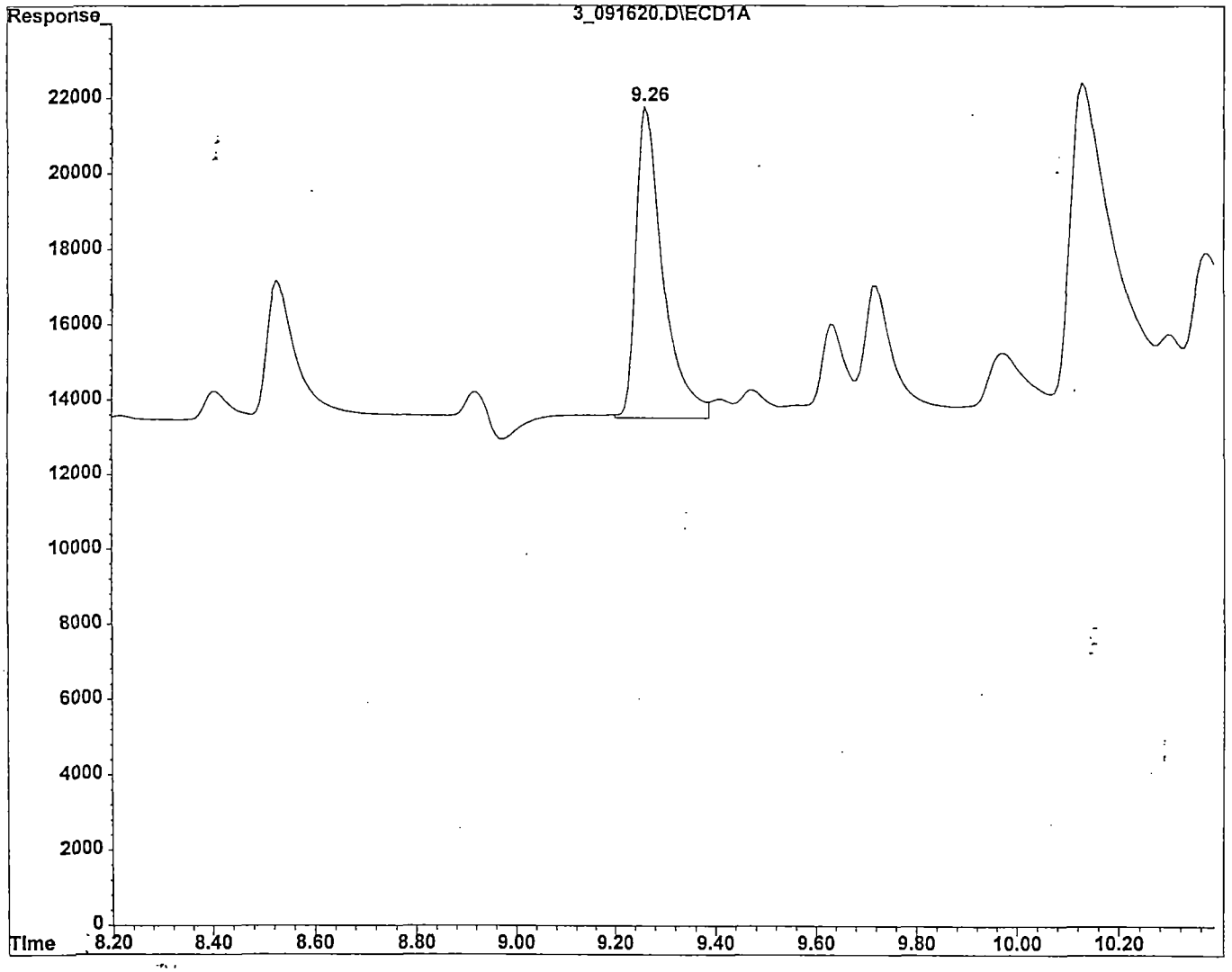
Aroclor-1016 8.53min area: 159380 m

Integration Time Range: 8.47 - 8.78 BTB 091701

F:\HPCHEM\HP\3\DATA\09_16_01\3_091620.D
Report generated: Mon Sep 17 15:34:01 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_16_01\3_091620.D
Date Acquired: 16 Sep 2001 19:02
Inst: HP_03 Operator ID: DDC
Name: AR1660L13E
Misc: 5-212-7
Method: F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 17 15:26 2001 Quant Results File: XPCBI16.RES



Aroclor-1016 {2} 9.26min area: 305852 m

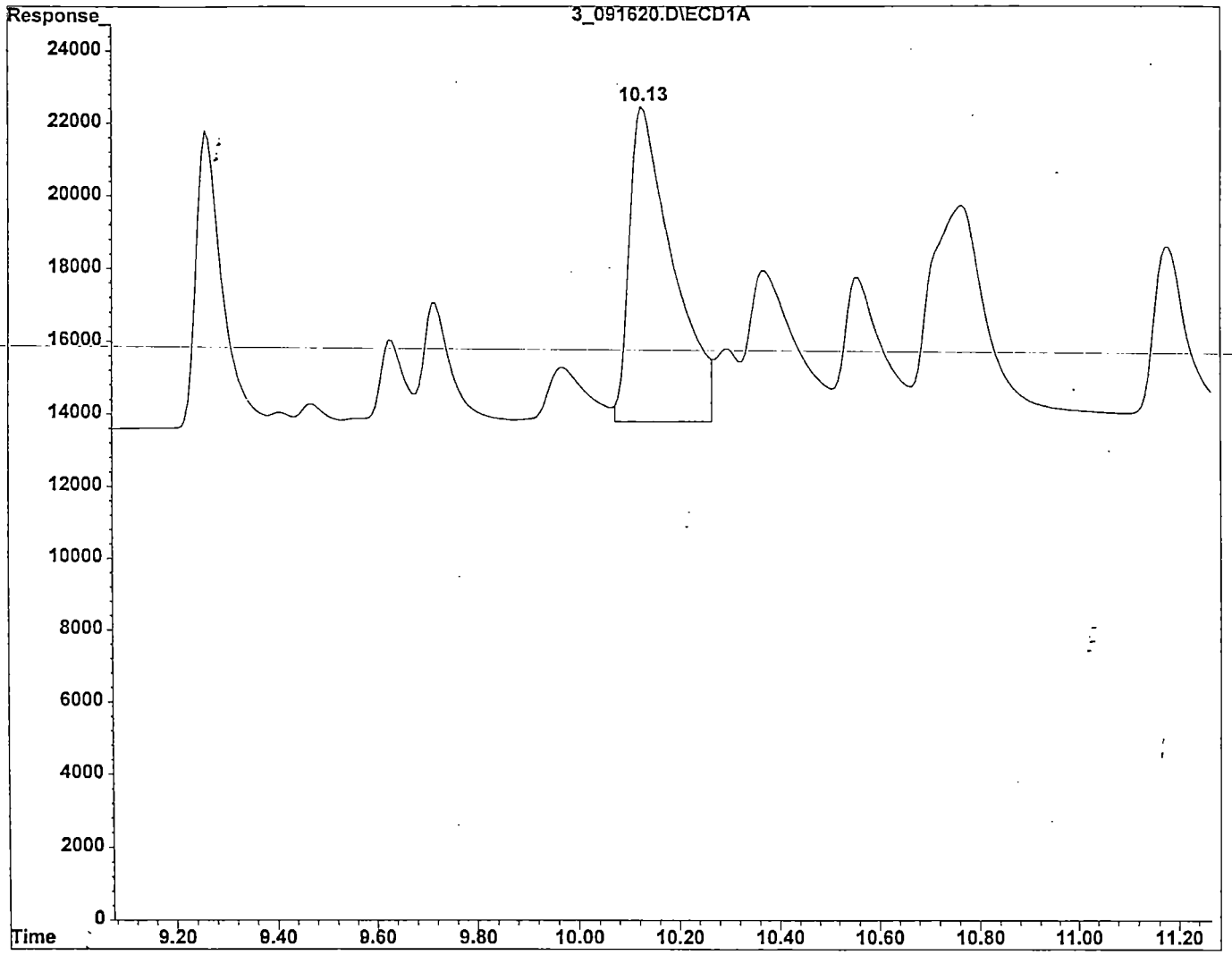
Integration Time Range: 9.20 - 9.39

BTB
091701

F:\HPCHEM\HP\3\DATA\09_16_01\3_091620.D
Report generated: Mon Sep 17 15:34:02 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_16_01\3_091620.D
Date Acquired: 16 Sep 2001 19:02
Inst: HP_03 Operator ID: DDC
Name: AR1660L13E
Misc: 5-212-7
Method: F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 17 15:26 2001 Quant Results File: XPCBI16.RES



Aroclor-1016 {3} 10.13min area: 516088 m

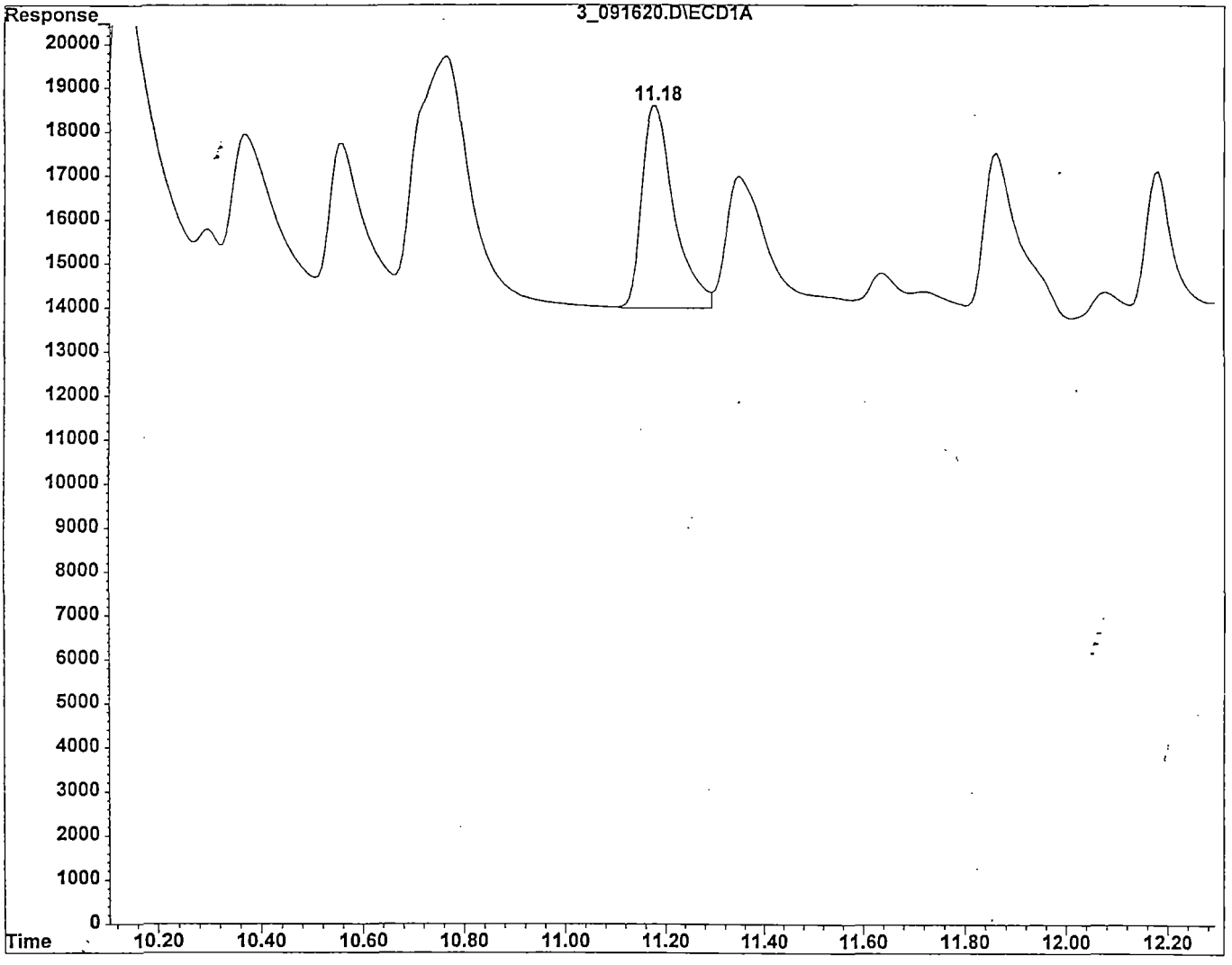
Integration Time Range: 10.07 - 10.27

BTB
091701

F:\HPCHEM\HP\3\DATA\09_16_01\3_091620.D
Report generated: Mon Sep 17 15:34:02 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_16_01\3_091620.D
Date Acquired: 16 Sep 2001 19:02
Inst: HP_03 Operator ID: DDC
Name: AR1660L13E
Misc: 5-212-7
Method: F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 17 15:26 2001 Quant Results File: XPCBI16.RES



Aroclor-1016 {5} 11.18min area: 208624 m

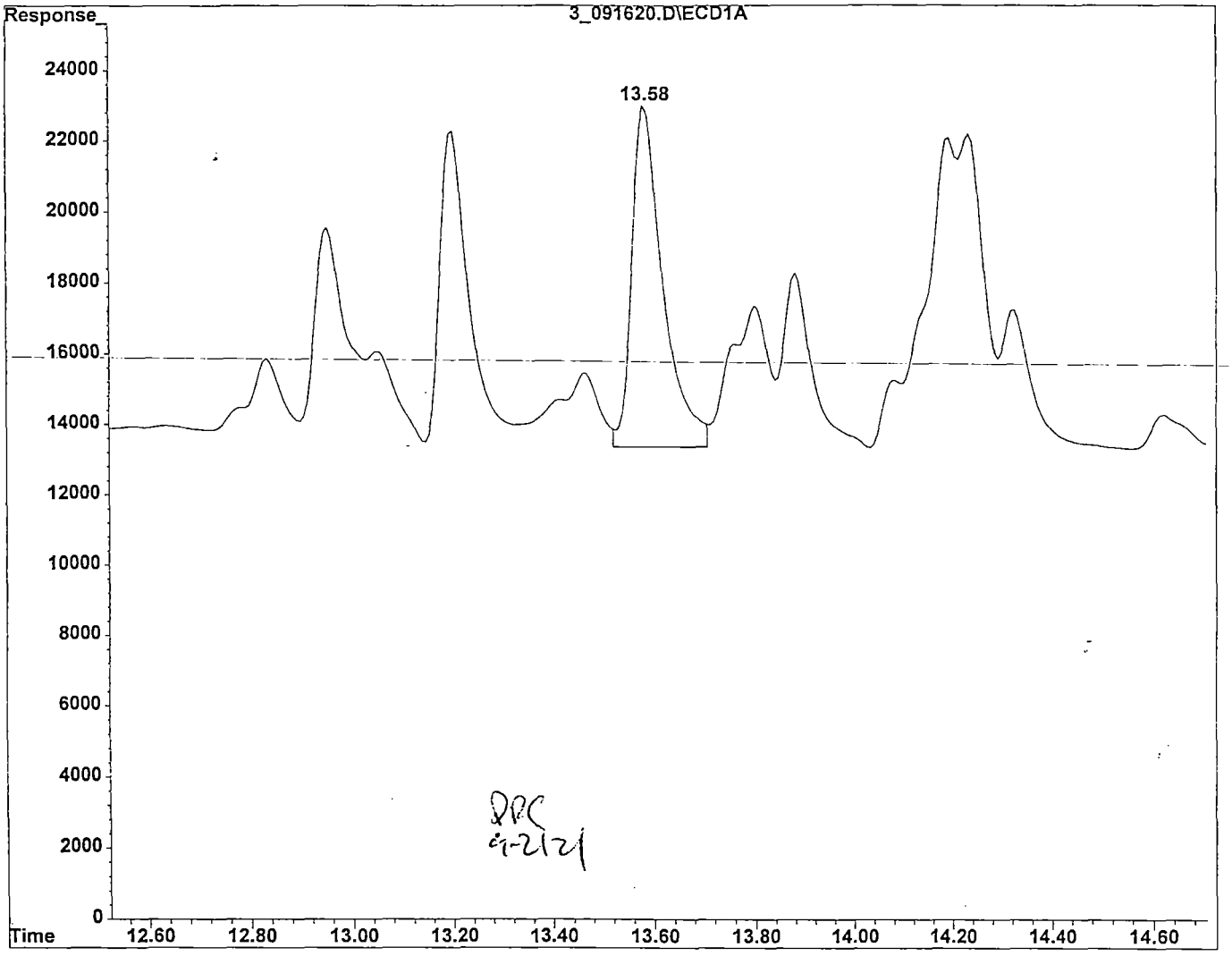
Integration Time Range: 11.11 - 11.29

BJB 091701

F:\HPCHEM\HP\3\DATA\09_16_01\3_091620.D
Report generated: Mon Sep 17 15:34:03 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_16_01\3_091620.D
Date Acquired: 16 Sep 2001 19:02
Inst: HP_03 Operator ID: DDC
Name: ARI660L13E
Misc: 5-212-7
Method: F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 17 15:26 2001 Quant Results File: XPCBI16.RES



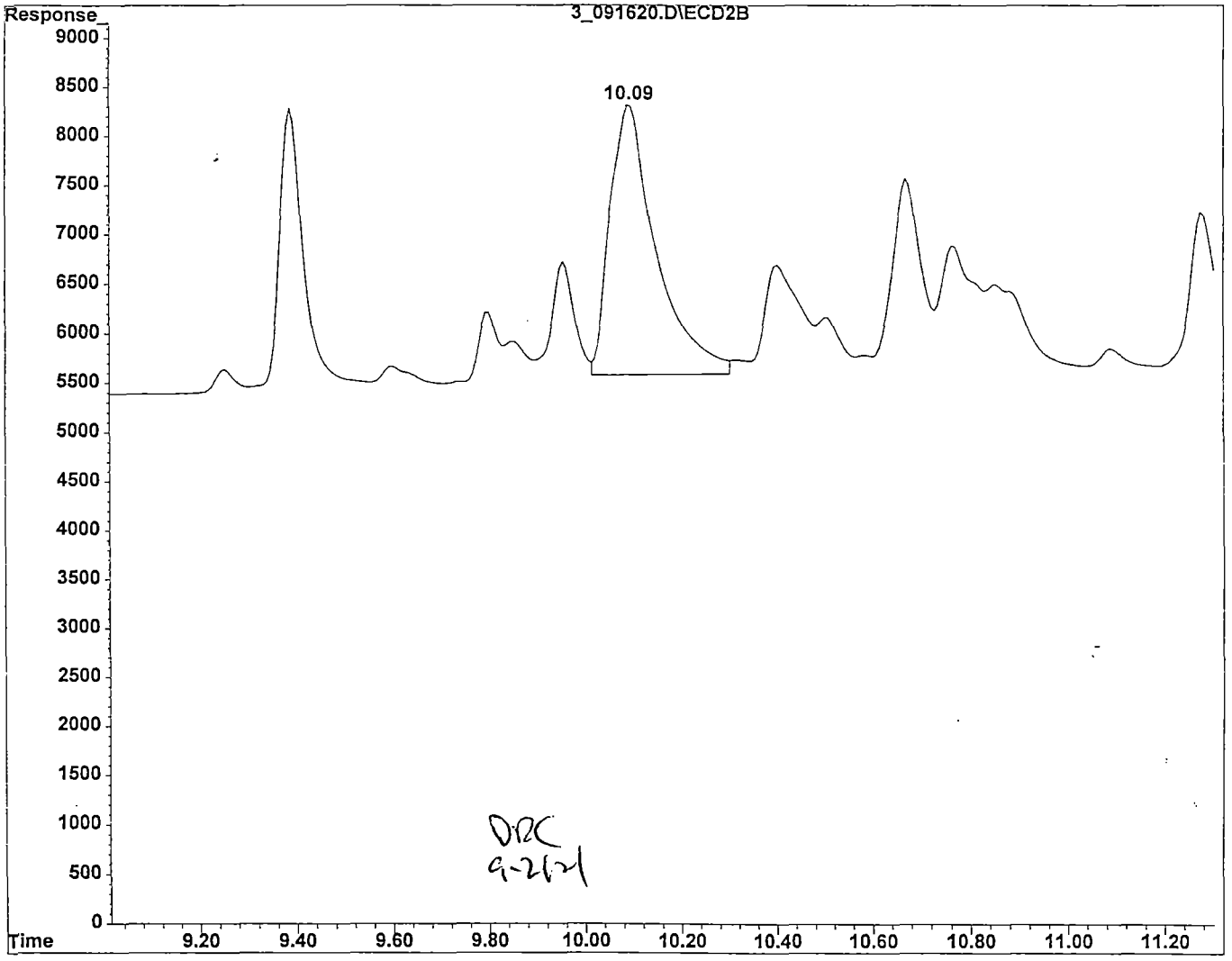
Aroclor-1260 {2} 13.58min area: 408700 m

Integration Time Range: 13.52 - 13.70

F:\HPCHEM\HP\3\DATA\09_16_01\3_091620.D
Report generated: Fri Sep 21 08:54:39 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_16_01\3_091620.D
Date Acquired: 16 Sep 2001 19:02
Inst: HP_03 Operator ID: DDC
Name: AR1660L13E
Misc: 5-212-7
Method: F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 17 15:26 2001 Quant Results File: XPCBI16.RES



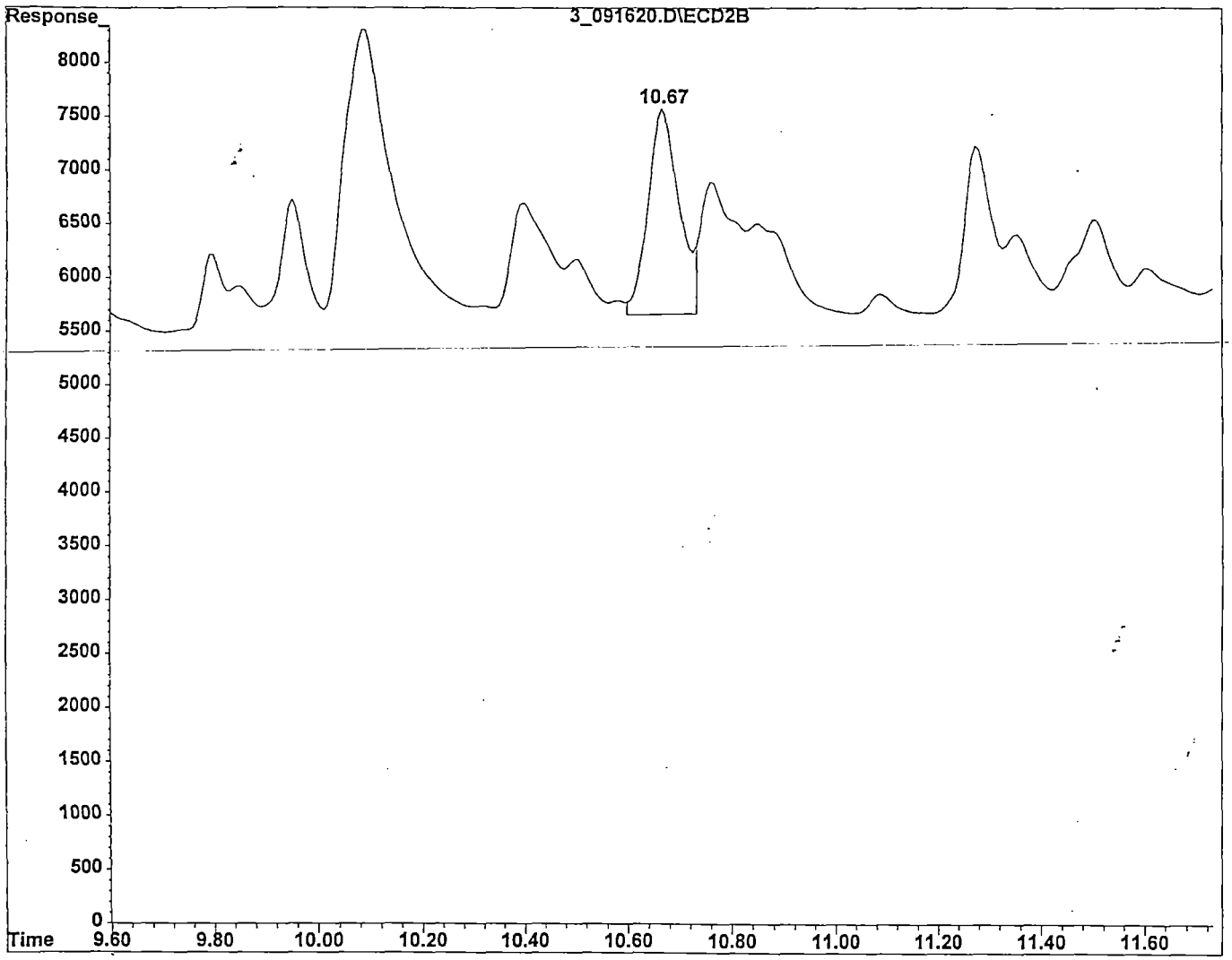
Aroclor-1016 {3} #2 10.09min area: 179396 m

Integration Time Range: 10.01 - 10.30

F:\HPCHEM\HP\3\DATA\09_16_01\3_091620.D
Report generated: Fri Sep 21 08:54:39 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_16_01\3_091620.D
Date Acquired: 16 Sep 2001 19:02
Inst: HP_03 Operator ID: DDC
Name: AR1660L13E
Misc: 5-212-7
Method: F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 17 15:26 2001 Quant Results File: XPCBI16.RES



Aroclor-1016 {4} #2 10.67min area: 79976 m

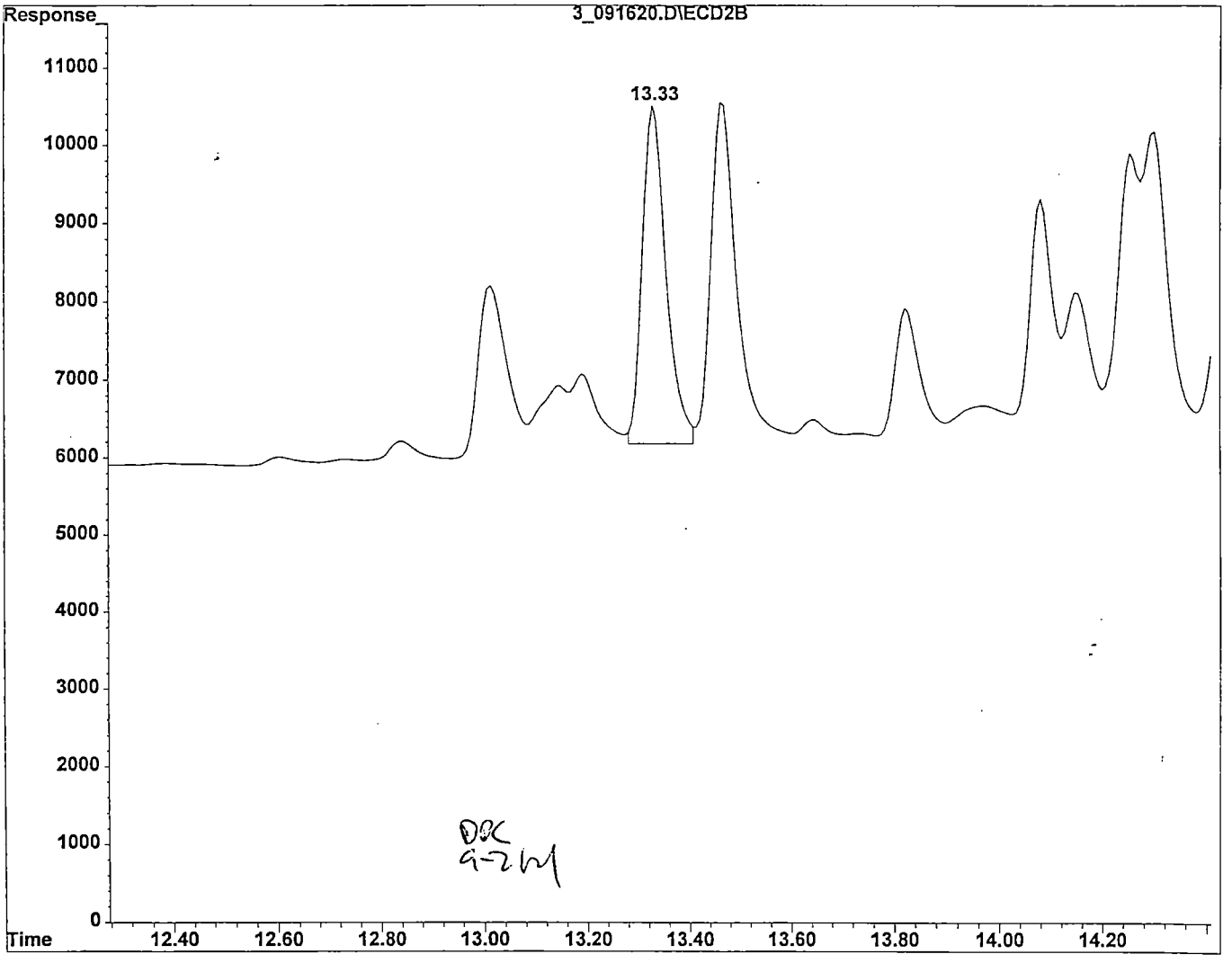
Integration Time Range: 10.60 - 10.73

BTB
091701

F:\HPCHEM\HP\3\DATA\09_16_01\3_091620.D
Report generated: Mon Sep 17 15:34:04 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_16_01\3_091620.D
Date Acquired: 16 Sep 2001 19:02
Inst: HP_03 Operator ID: DDC
Name: AR1660L13E
Misc: 5-212-7
Method: F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 17 15:26 2001 Quant Results File: XPCBI16.RES



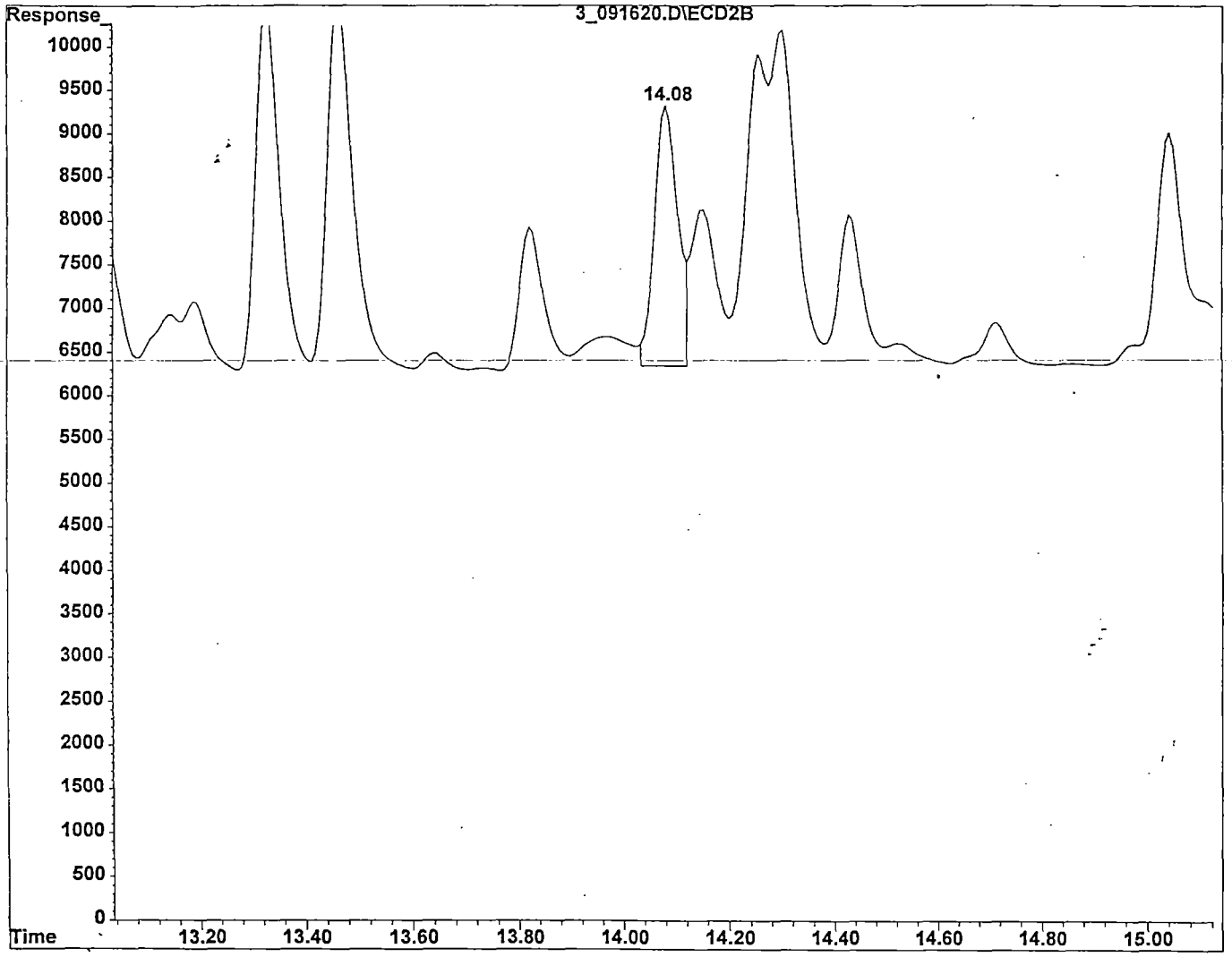
Aroclor-1260 #2 13.33min area: 139000 m

Integration Time Range: 13.28 - 13.41

F:\HPCHEM\HP\3\DATA\09_16_01\3_091620.D
Report generated: Fri Sep 21 08:54:40 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_16_01\3_091620.D
Date Acquired: 16 Sep 2001 19:02
Inst: HP_03 Operator ID: DDC
Name: ARI660L13E
Misc: 5-212-7
Method: F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 17 15:26 2001 Quant Results File: XPCBI16.RES



Aroclor-1260 {2} #2 14.08min area: 92136 m

Integration Time Range: 14.03 - 14.12

BTB
091701

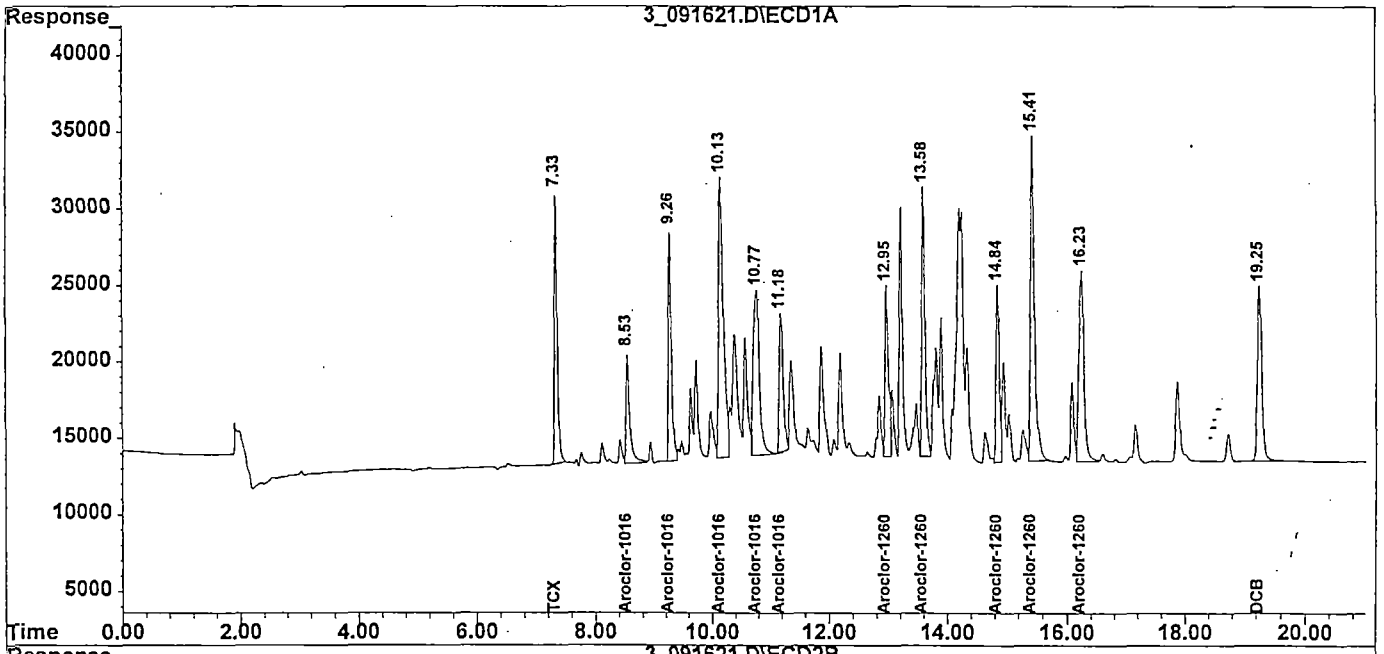
F:\HPCHEM\HP\3\DATA\09_16_01\3_091620.D
Report generated: Mon Sep 17 15:34:06 2001

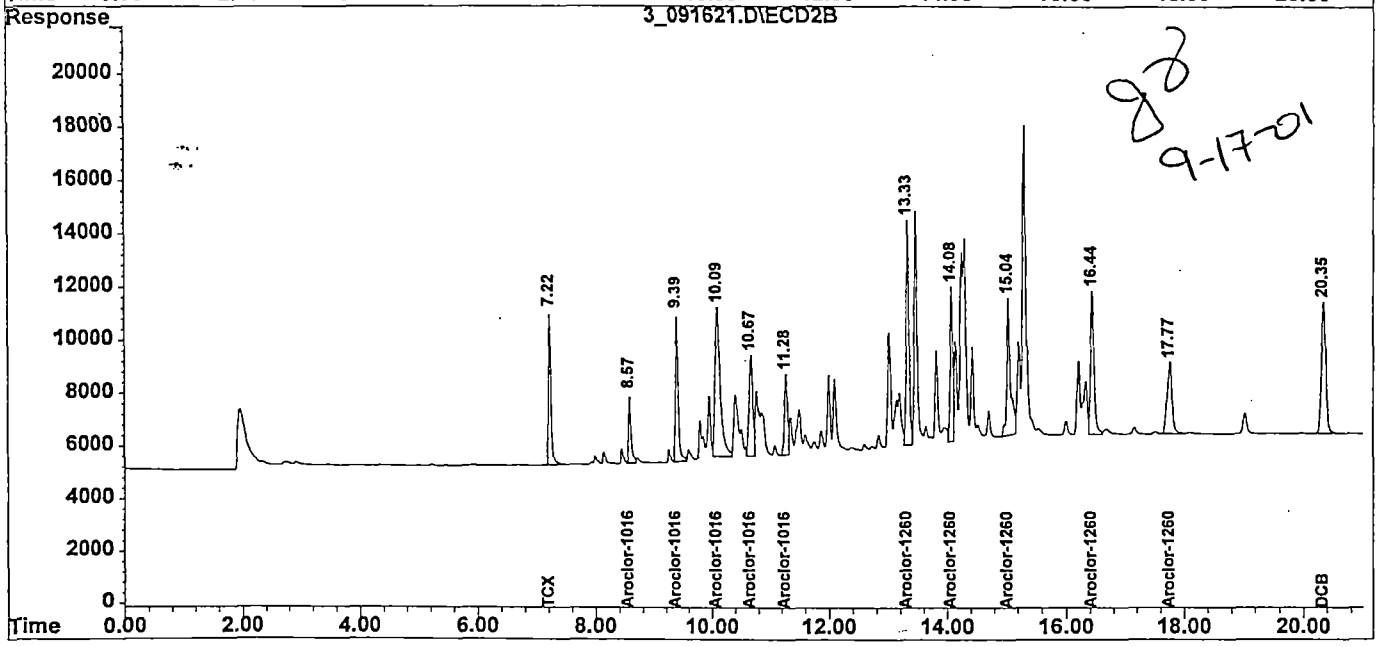
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091621.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091621.D\ECD2B.CH
Acq On : 16 Sep 2001 19:28 Operator: DDC
Sample : AR1660L23E Inst : HP_03
Misc : 5-211-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 15:27 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





8 9-17-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091621.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091621.D\ECD2B.CH
Acq On : 16 Sep 2001 19:28 Operator: DDC
Sample : AR1660L23E Inst : HP_03
Misc : 5-211-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 15:27 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

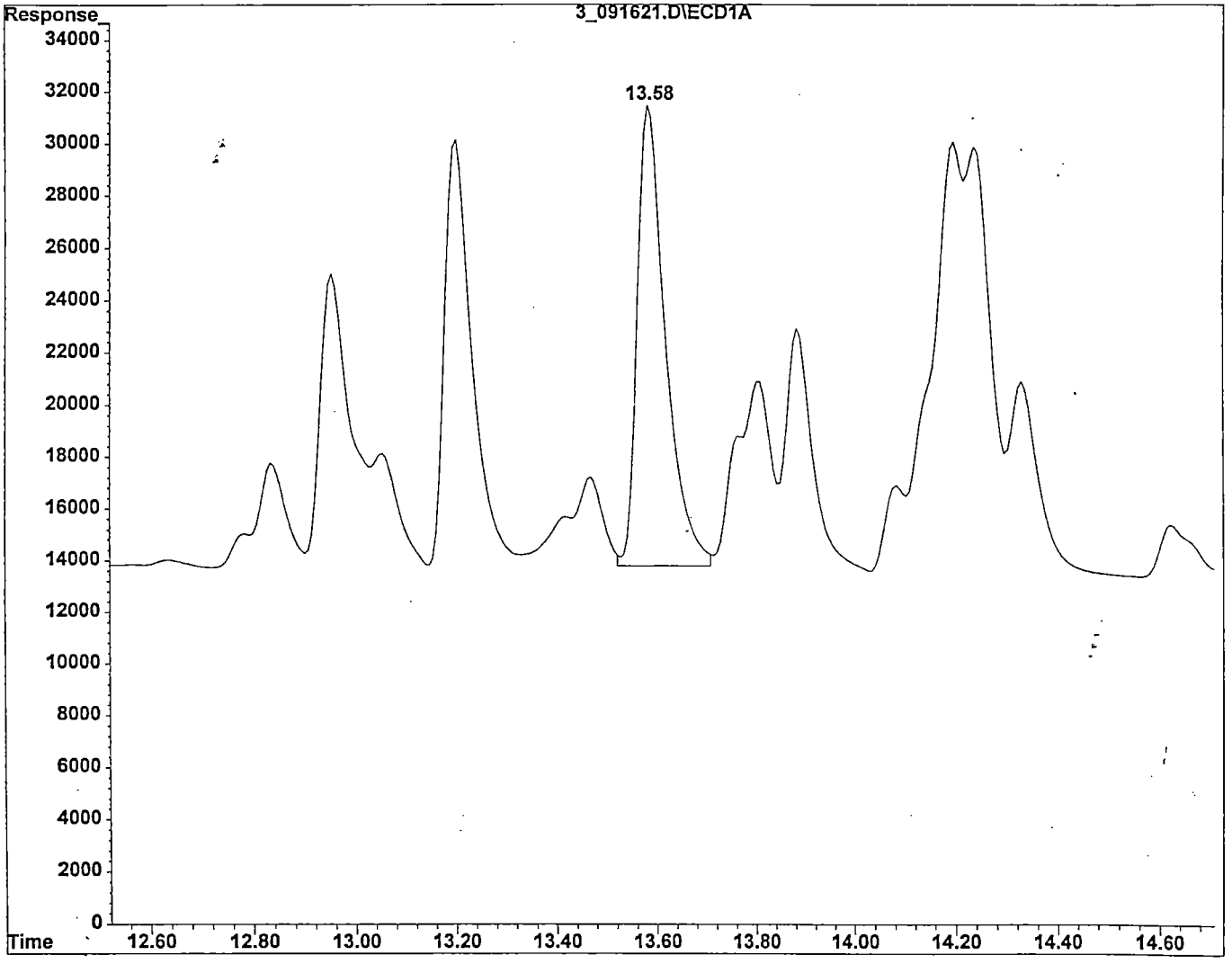
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	564921	162974	10.4	10.1
22)	S DCB	19.25	20.35	605323	257961	10.8	10.5
	Target Compounds:						
2)	L1 Aroclor-1016	8.53	8.57	306556	81881	110.8	112.1
3)	L1 Aroclor-1016 {2}	9.26	9.39	555672	190191	202.0	214.8
4)	L1 Aroclor-1016 {3}	10.13	10.09	1042026	355972	268.6	354.4m # BTB
5)	L1 Aroclor-1016 {4}	10.77	10.67	818173	163964	374.0	221.9m # 09/17/01
6)	L1 Aroclor-1016 {5}	11.18	11.28	424579	108194	146.1	89.1 # ↓
	Sum Aroclor-1016			3147007	900202	1101.5	992.4
	Average Aroclor-1016					220.307	198.485
17)	L7 Aroclor-1260	12.96	13.33	460358	282599	215.6	222.7
18)	L7 Aroclor-1260 {2}	13.58	14.08	696824	185170	223.6m BTB	221.0
19)	L7 Aroclor-1260 {3}	14.84	15.04	444019	227966	213.7 09/17/01	211.2
20)	L7 Aroclor-1260 {4}	15.42	16.44	998728	229845	213.6	207.6
21)	L7 Aroclor-1260 {5}	16.23	17.77	753912	161109	211.8	206.5
	Sum Aroclor-1260			3353841	1086689	1078.3	1068.9
	Average Aroclor-1260					215.663	213.778

(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\3\DATA\09_16_01\3_091621.D
Date Acquired: 16 Sep 2001 19:28
Inst: HP_03 Operator ID: DDC
Name: AR1660L23E
Misc: 5-211-7
Method: F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 17 15:27 2001 Quant Results File: XPCBI16.RES



Aroclor-1260 {2} 13.58min area: 696824 m

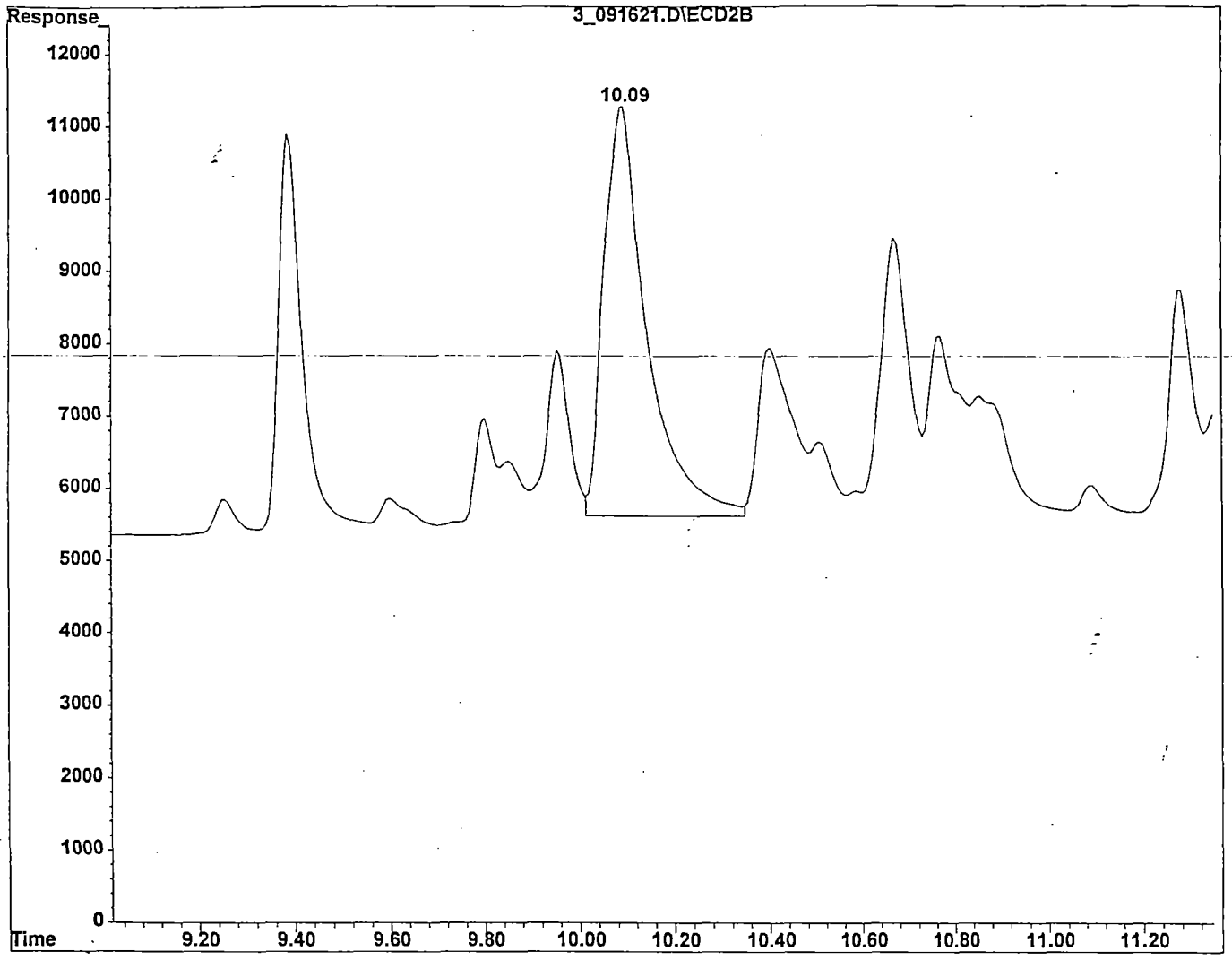
Integration Time Range: 13.52 - 13.71

BTB
091711

F:\HPCHEM\HP\3\DATA\09_16_01\3_091621.D
Report generated: Mon Sep 17 15:34:07 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_16_01\3_091621.D
Date Acquired: 16 Sep 2001 19:28
Inst: HP_03 Operator ID: DDC
Name: AR1660L23E
Misc: 5-211-7
Method: F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 17 15:27 2001 Quant Results File: XPCBI16.RES



Aroclor-1016 {3} #2 10.09min area: 355972 m

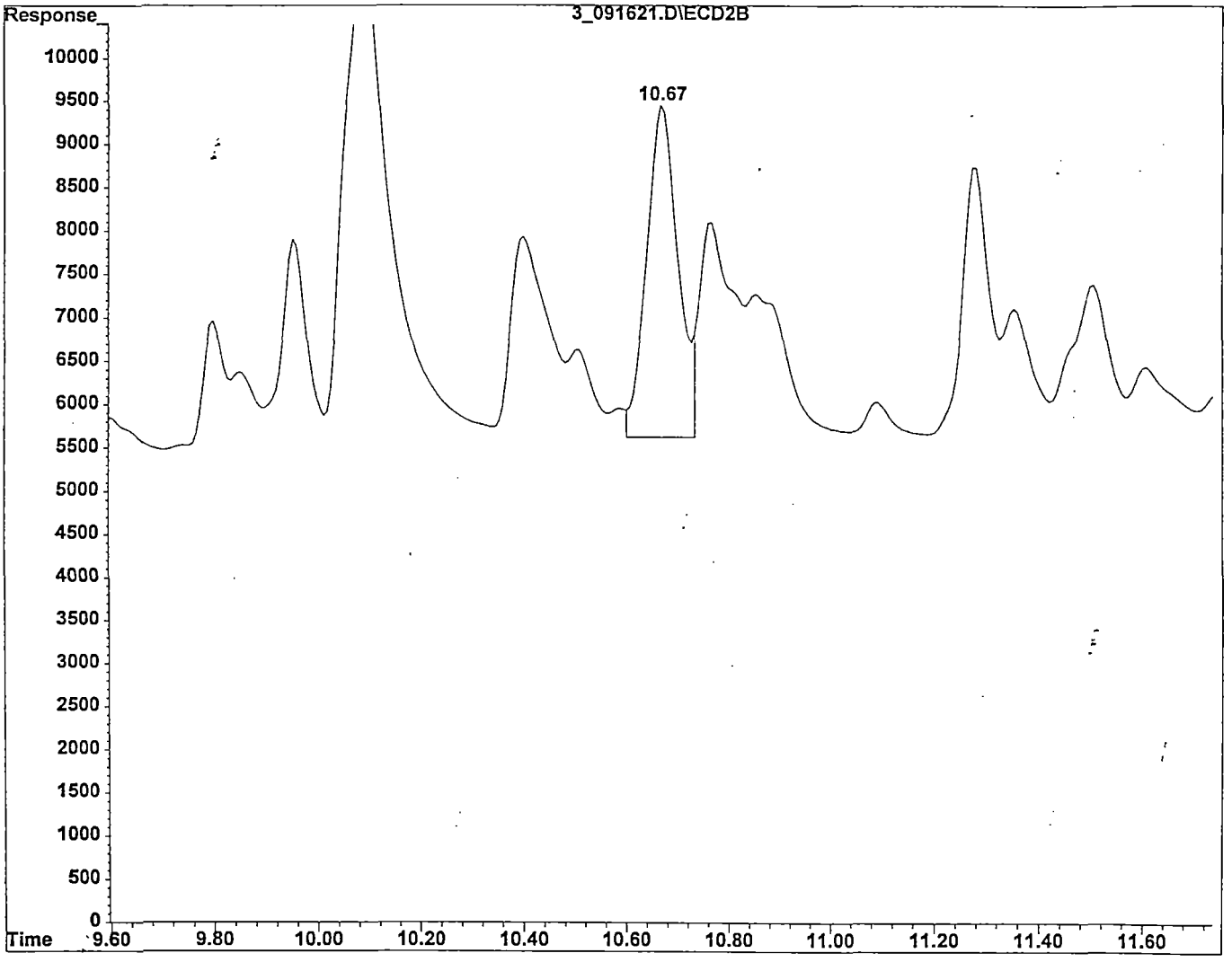
Integration Time Range: 10.02 - 10.34

BJB 091701

F:\HPCHEM\HP\3\DATA\09_16_01\3_091621.D
Report generated: Mon Sep 17 15:34:08 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_16_01\3_091621.D
Date Acquired: 16 Sep 2001 19:28
Inst: HP_03 Operator ID: DDC
Name: AR1660L23E
Misc: 5-211-7
Method: F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 17 15:27 2001 Quant Results File: XPCBI16.RES



Aroclor-1016 {4} #2 10.67min area: 163964 m

Integration Time Range: 10.60 - 10.74

BTB
091701

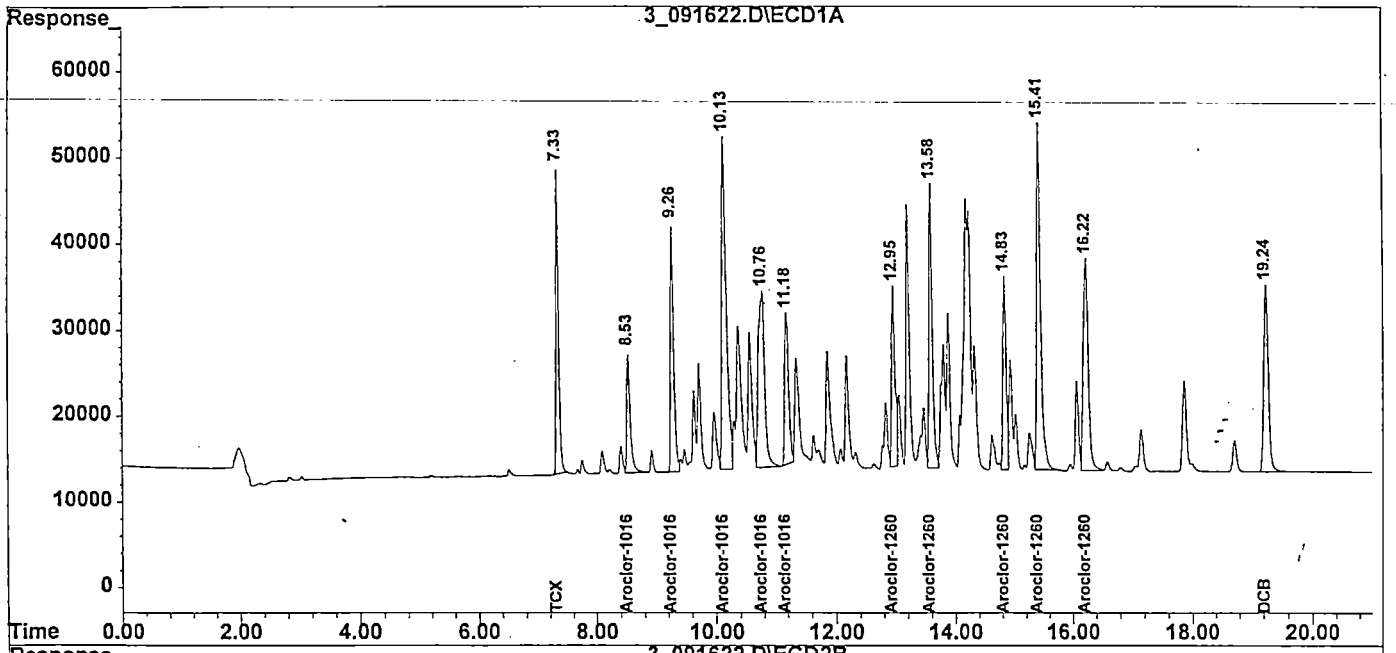
F:\HPCHEM\HP\3\DATA\09_16_01\3_091621.D
Report generated: Mon Sep 17 15:34:08 2001

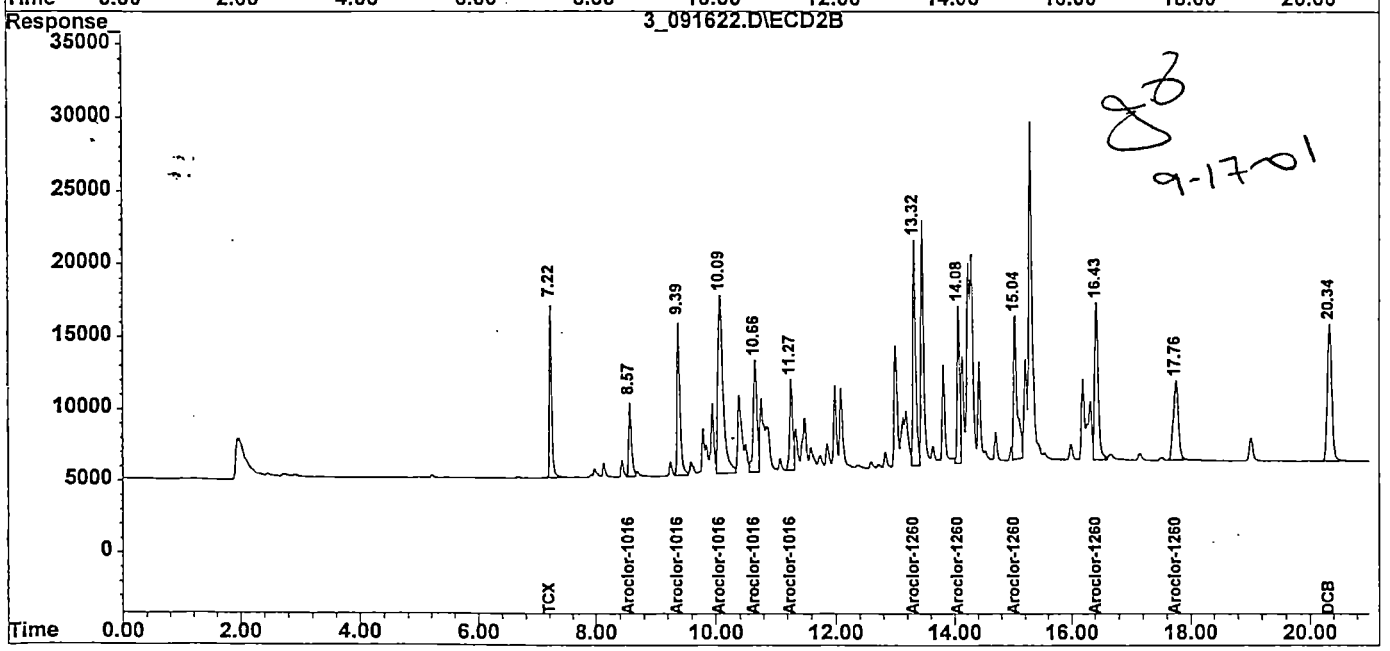
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091622.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091622.D\ECD2B.CH
Acq On : 16 Sep 2001 19:54 Operator: DDC
Sample : AR1660L33E Inst : HP_03
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 15:28 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





9-17-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091622.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091622.D\ECD2B.CH
Acq On : 16 Sep 2001 19:54 Operator: DDC
Sample : AR1660L33E Inst : HP_03
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 15:28 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

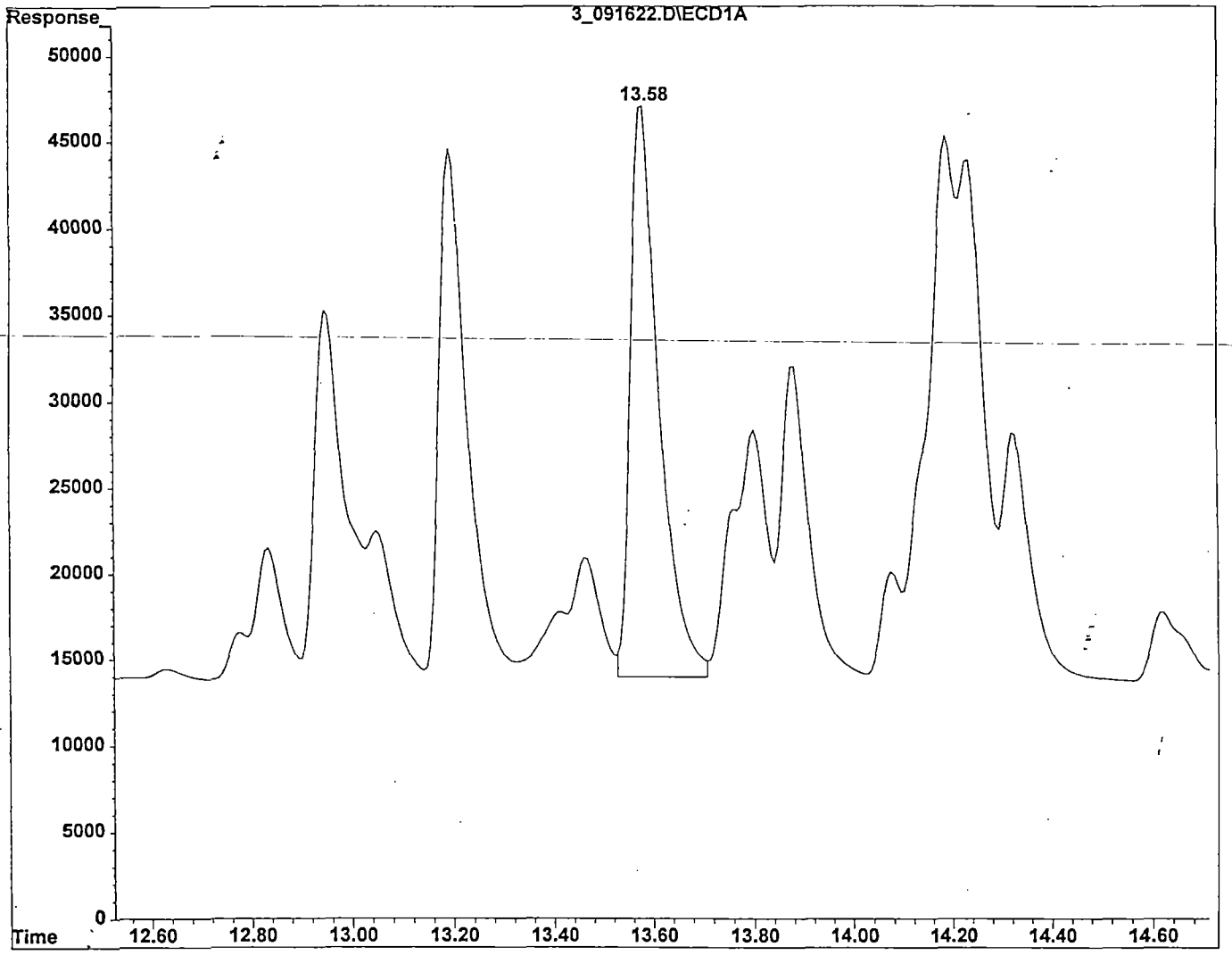
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.33	7.22	1128271	338870	20.8	20.9	
22)	S DCB	19.24	20.34	1150850	509623	20.5	20.8	
	Target Compounds:							
2)	L1 Aroclor-1016	8.53	8.57	551768	162683	220.0	250.6	
3)	L1 Aroclor-1016 {2}	9.26	9.39	1037310	369645	377.1	417.5	
4)	L1 Aroclor-1016 {3}	10.13	10.09	2005758	729308	488.8	599.0	
5)	L1 Aroclor-1016 {4}	10.77	10.66	1507124	339384	567.7	458.5	
6)	L1 Aroclor-1016 {5}	11.18	11.28	838409	216992	318.1	215.3	#
	Sum Aroclor-1016			5940369	1818013	1971.7	1940.9	
	Average Aroclor-1016					394.340	388.182	
17)	L7 Aroclor-1260	12.95	13.33	866463	526579	405.8	411.0	
18)	L7 Aroclor-1260 {2}	13.58	14.08	1325388	340330	443.5m	406.1	
19)	L7 Aroclor-1260 {3}	14.84	15.04	860889	436860	414.4	404.6	
20)	L7 Aroclor-1260 {4}	15.41	16.44	1912100	457716	409.0	413.5	
21)	L7 Aroclor-1260 {5}	16.23	17.76	1472592	320111	413.7	410.2	
	Sum Aroclor-1260			6437432	2081597	2086.4	2045.5	
	Average Aroclor-1260					417.273	409.097	

BTP 091701

(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\3\DATA\09_16_01\3_091622.D
Date Acquired: 16 Sep 2001 19:54
Inst: HP_03 Operator ID: DDC
Name: AR1660L33E
Misc: 5-210-7
Method: F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 17 15:28 2001 Quant Results File: XPCBI16.RES



Aroclor-1260 {2} 13.58min area: 1325388 m

Integration Time Range: 13.53 - 13.71

BTB
091701

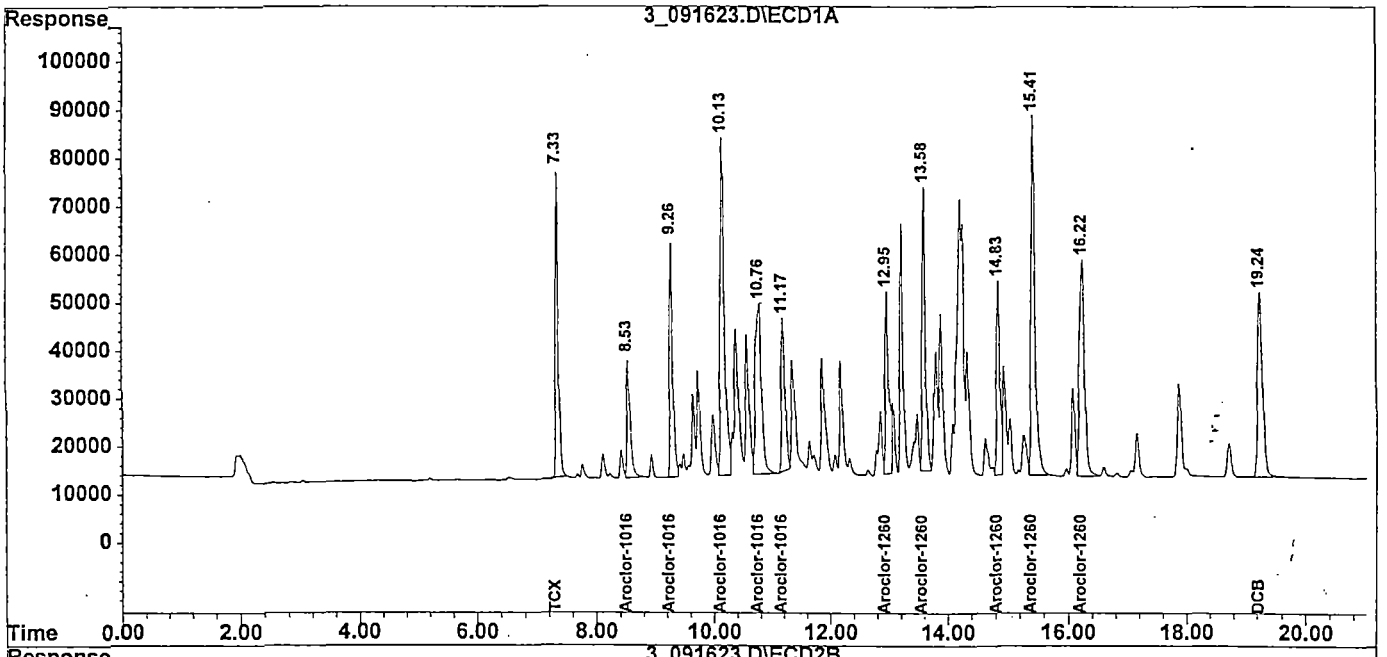
F:\HPCHEM\HP\3\DATA\09_16_01\3_091622.D
Report generated: Mon Sep 17 15:34:09 2001

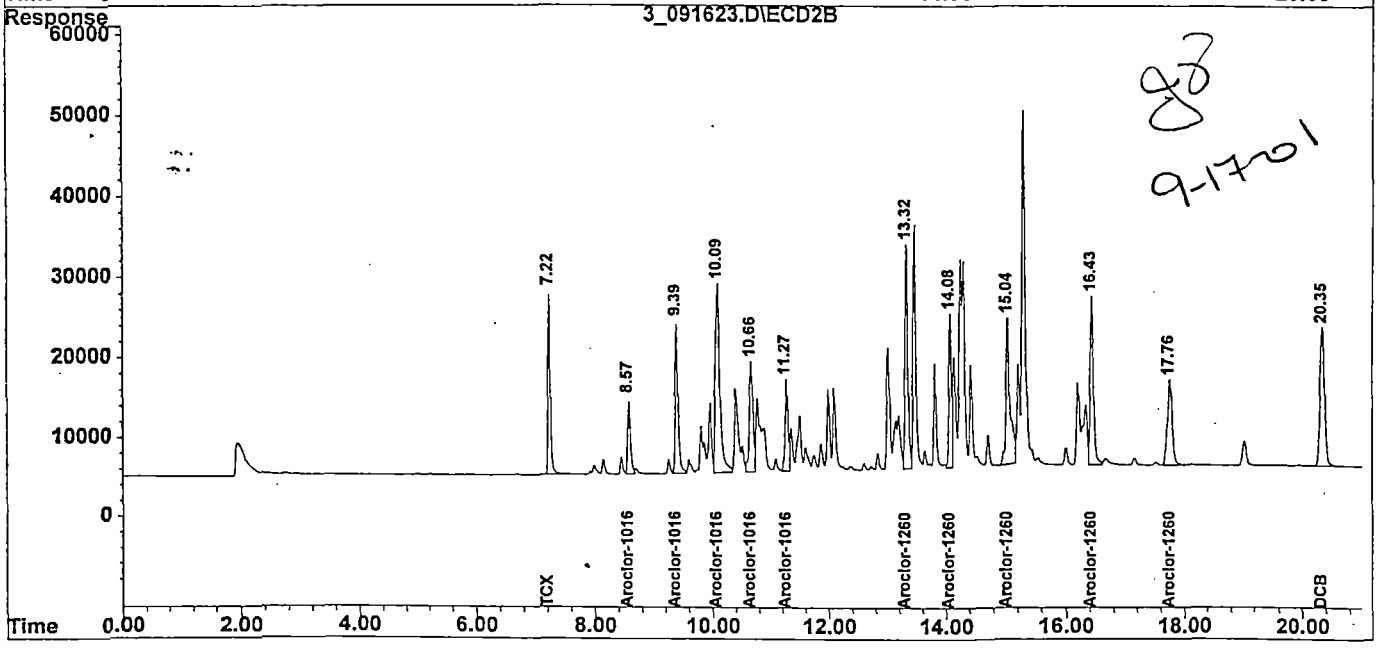
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091623.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091623.D\ECD2B.CH
Acq On : 16 Sep 2001 20:19 Operator: DDC
Sample : AR1660L43E Inst : HP_03
Misc : 5-209-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 15:28 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





gg
9-17-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091623.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091623.D\ECD2B.CH
Acq On : 16 Sep 2001 20:19 Operator: DDC
Sample : AR1660L43E Inst : HP_03
Misc : 5-209-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 15:28 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

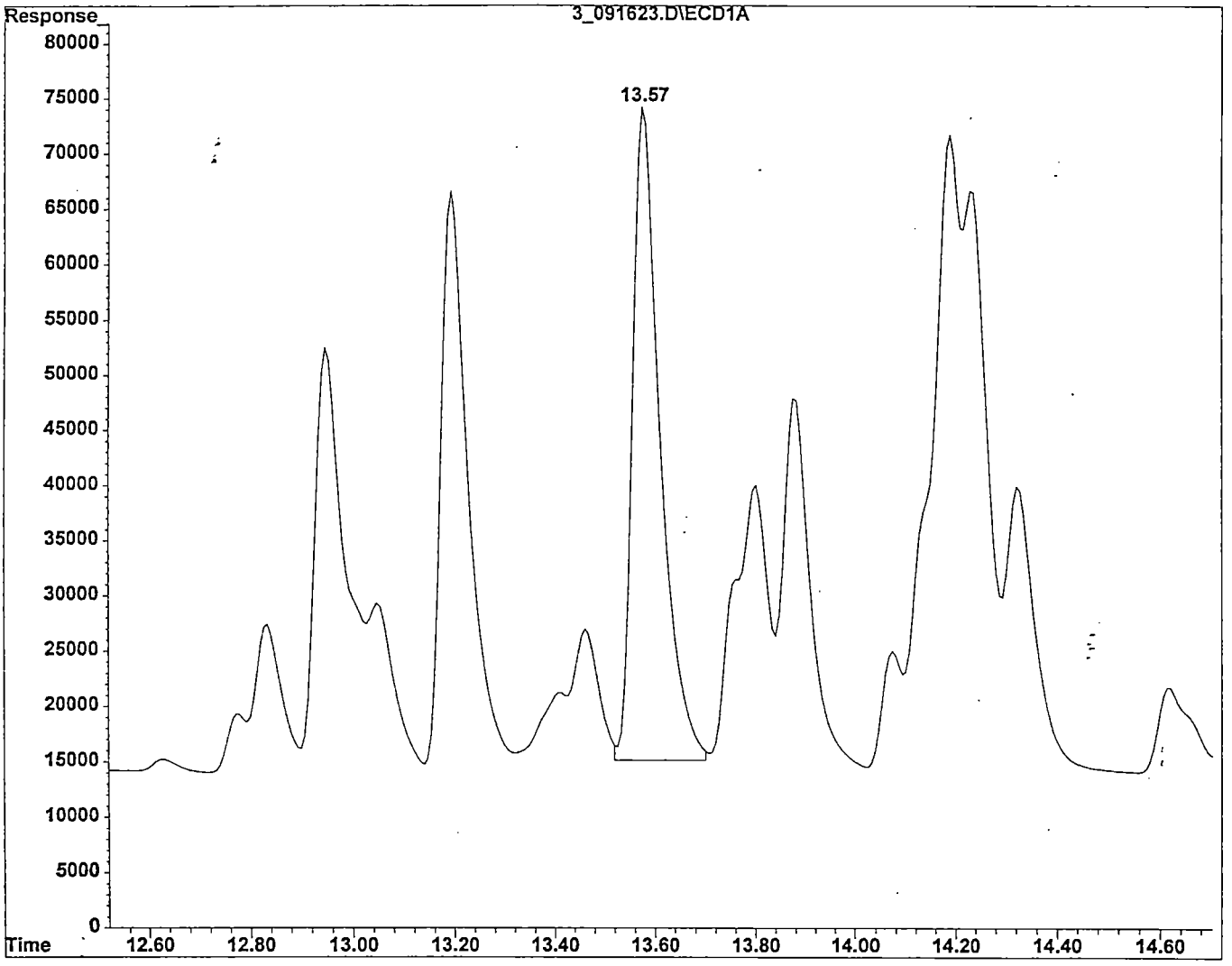
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	2036568	635095	37.6	39.2
22)	S DCB	19.25	20.35	2120962	938260	37.7	38.3
	Target Compounds:						
2)	L1 Aroclor-1016	8.53	8.57	961513	289009	433.1	515.1
3)	L1 Aroclor-1016 {2}	9.26	9.39	1792032	649450	651.5	733.5
4)	L1 Aroclor-1016 {3}	10.13	10.09	3453564	1292646	793.4	915.2
5)	L1 Aroclor-1016 {4}	10.77	10.66	2573957	613931	845.5	811.7
6)	L1 Aroclor-1016 {5}	11.18	11.27	1458386	398644	621.2	485.3
	Sum Aroclor-1016			10239452	3243681	3344.7	3460.8
	Average Aroclor-1016					668.942	692.155
17)	L7 Aroclor-1260	12.95	13.32	1547246	920720	724.6	718.6
18)	L7 Aroclor-1260 {2}	13.57	14.08	2232704	596286	776.7m	711.6
19)	L7 Aroclor-1260 {3}	14.84	15.04	1563697	848887	752.7	786.3
20)	L7 Aroclor-1260 {4}	15.41	16.44	3484264	855564	745.3	772.9
21)	L7 Aroclor-1260 {5}	16.23	17.77	2702647	620234	759.3	794.8
	Sum Aroclor-1260			11530559	3841691	3758.6	3784.2
	Average Aroclor-1260					751.712	756.842

BTB 09/17/01

(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\3\DATA\09_16_01\3_091623.D
Date Acquired: 16 Sep 2001 20:19
Inst: HP_03 Operator ID: DDC
Name: AR1660L43E
Misc: 5-209-7
Method: F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 17 15:28 2001 Quant Results File: XPCBI16.RES



Aroclor-1260 {2} 13.57min area: 2232704 m

Integration Time Range: 13.52 - 13.70

BJB
091701

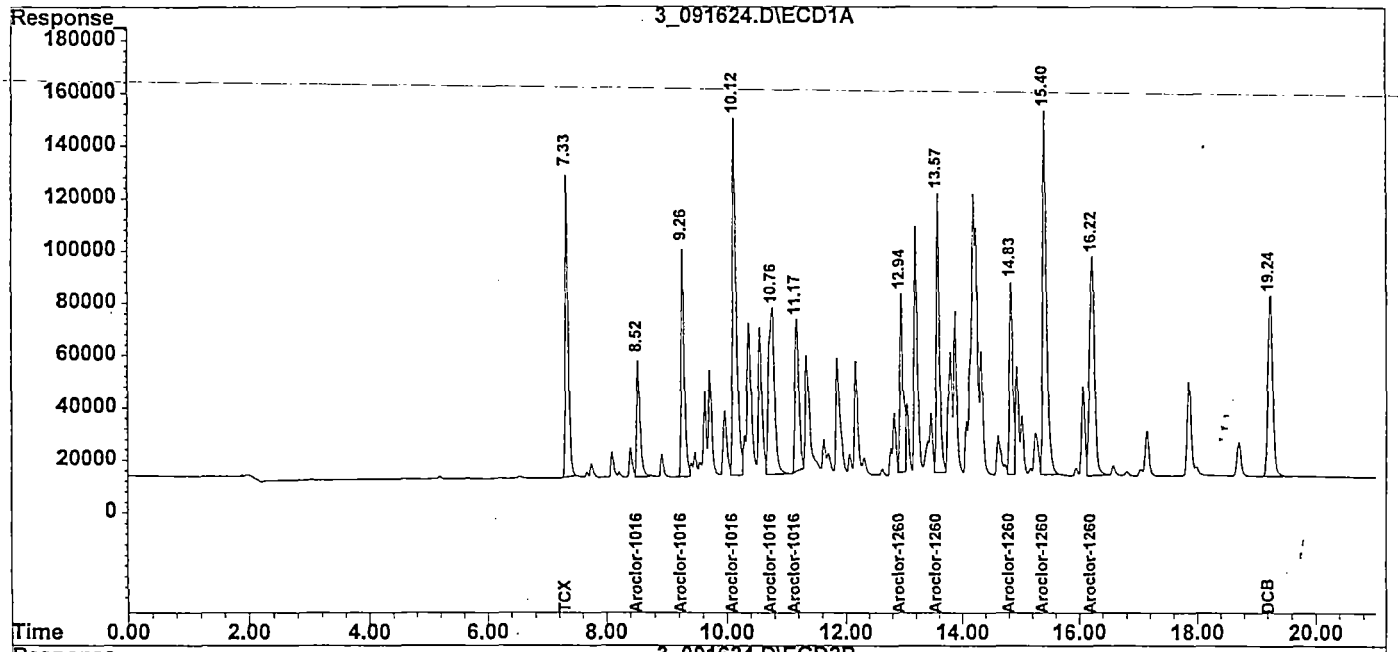
F:\HPCHEM\HP\3\DATA\09_16_01\3_091623.D
Report generated: Mon Sep 17 15:34:11 2001

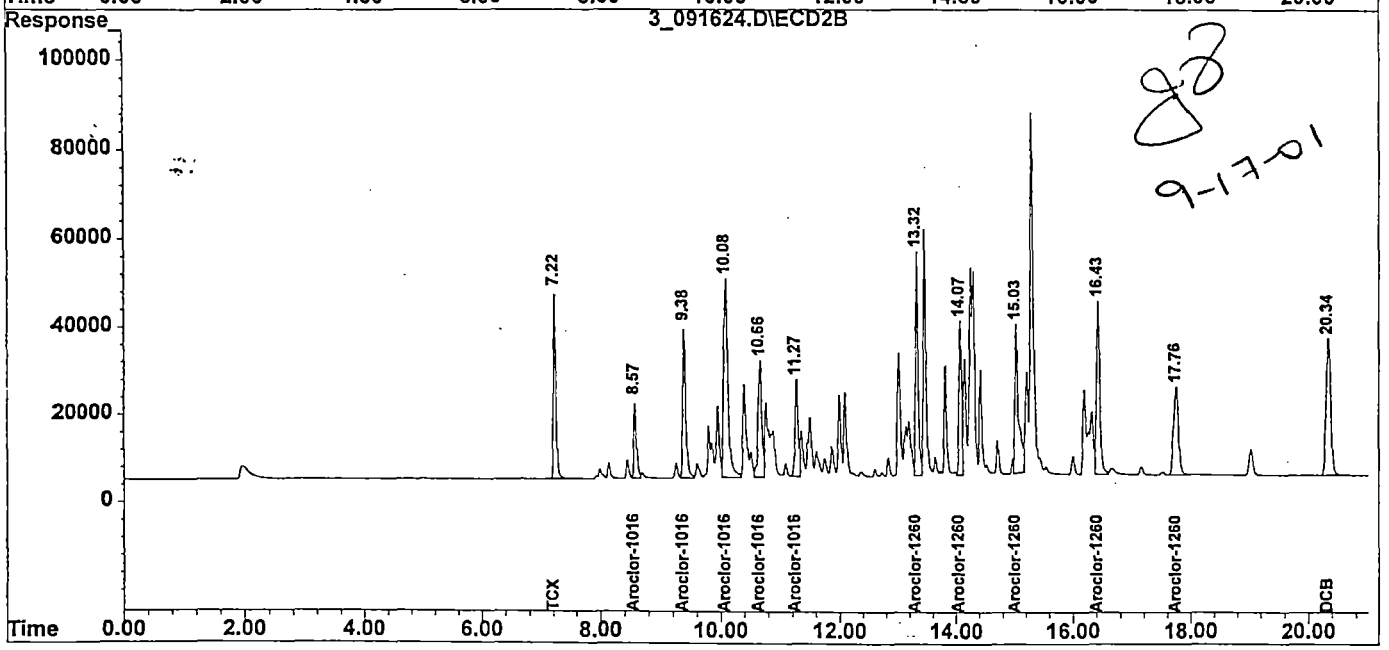
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091624.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091624.D\ECD2B.CH
Acq On : 16 Sep 2001 20:45 Operator: DDC
Sample : AR1660L53E Inst : HP_03
Misc : 5-208-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 15:29 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





9-17-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091624.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091624.D\ECD2B.CH
Acq On : 16 Sep 2001 20:45 Operator: DDC
Sample : AR1660L53E Inst : HP_03
Misc : 5-208-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 15:29 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

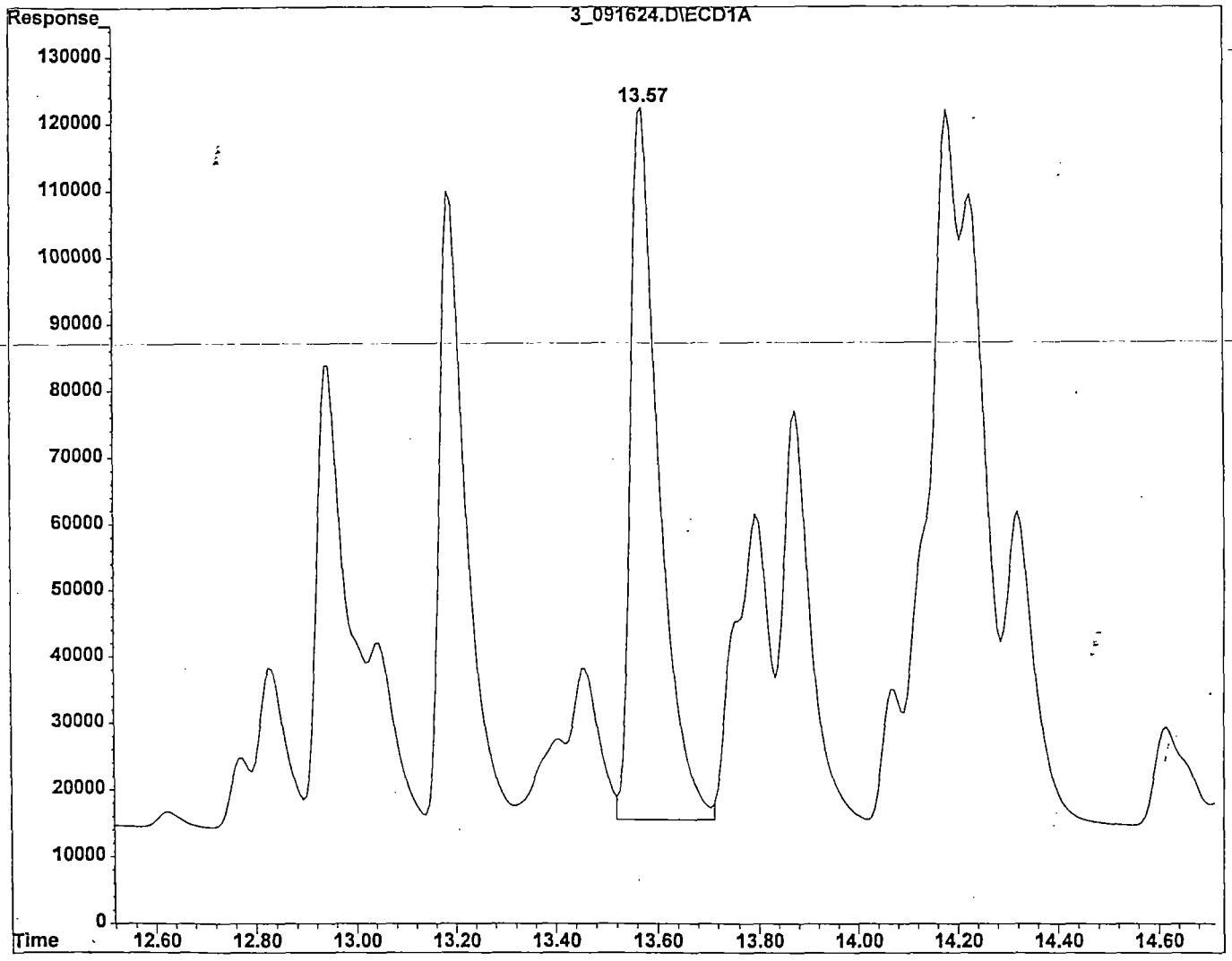
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	3941218	1252395	72.7	77.3
22)	S DCB	19.24	20.34	3869321	1726435	68.8 E	70.5
	Target Compounds:						
2)	L1 Aroclor-1016	8.53	8.57	1710114	533648	889.2 E	1124.5 E#
3)	L1 Aroclor-1016 {2}	9.26	9.39	3210773	1185551	1167.3 E	1339.0 E
4)	L1 Aroclor-1016 {3}	10.12	10.09	6220611	2366110	1360.4 E	1495.5 E
5)	L1 Aroclor-1016 {4}	10.76	10.66	4553546	1143173	1335.3	1480.1 E
6)	L1 Aroclor-1016 {5}	11.17	11.27	2692089	759258	1263.9	1149.2 E
	Sum Aroclor-1016			18387134	5987740	6016.1	6588.3
	Average Aroclor-1016					1203.223	1317.670
17)	L7 Aroclor-1260	12.95	13.32	2768070	1634664	1296.2 E	1275.9 E
18)	L7 Aroclor-1260 {2}	13.57	14.08	4105576	1060576	1468.8mE	1265.6
19)	L7 Aroclor-1260 {3}	14.83	15.04	2856903	1533399	1375.3 E	1420.3
20)	L7 Aroclor-1260 {4}	15.41	16.43	6424555	1607693	1374.3	1452.4 E
21)	L7 Aroclor-1260 {5}	16.22	17.76	5002154	1185688	1405.3 E	1519.4
	Sum Aroclor-1260			21157259	7022020	6919.9	6933.6
	Average Aroclor-1260					1383.976	1386.723

(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\3\DATA\09_16_01\3_091624.D
Date Acquired: 16 Sep 2001 20:45
Inst: HP_03 Operator ID: DDC
Name: AR1660L53E
Misc: 5-208-7
Method: F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 17 15:29 2001 Quant Results File: XPCBI16.RES



Aroclor-1260 {2} 13.57min area: 4105576 m

Integration Time Range: 13.52 - 13.71

BTB
091701

F:\HPCHEM\HP\3\DATA\09_16_01\3_091624.D
Report generated: Mon Sep 17 15:34:12 2001

Continuing Calibration Report HP_03

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Tue Sep 18 09:08:32 2001
Response via : Initial Calibration

Continuing Calibration File: 3_091703.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	54.217	51.351	E3	5.3	91
2	L1	Aroclor-1016	1.355	1.299	E3	4.1	94
3	L1	Aroclor-1016 {2}	2.535	2.381	E3	6.1	92
4	L1	Aroclor-1016 {3}	4.718	4.511	E3	4.4	90
5	L1	Aroclor-1016 {4}	3.693	3.479	E3	5.8	92
6	L1	Aroclor-1016 {5}	1.962	2.013	E3	-2.6	96
17	L7	Aroclor-1260	2.135	1.988	E3	6.9	92
18	L7	Aroclor-1260 {2}	3.248	3.006	E3	7.5	91
19	L7	Aroclor-1260 {3}	2.077	2.026	E3	2.5	94
20	L7	Aroclor-1260 {4}	4.675	4.424	E3	5.4	93
21	L7	Aroclor-1260 {5}	3.560	3.381	E3	5.0	92
22	S	DCB	56.261	52.808	E3	6.1	92

Signal #2
Continuing Calibration File: 3_091703.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	16.207	15.753	E3	2.8	93
2	L1	Aroclor-1016	384.734	407.351		-5.9	100
3	L1	Aroclor-1016 {2}	885.369	901.230		-1.8	98
4	L1	Aroclor-1016 {3}	1.698	1.765	E3	-3.9	97
5	L1	Aroclor-1016 {4}	789.988	822.516		-4.1	97
6	L1	Aroclor-1016 {5}	521.940	528.525		-1.3	97
17	L7	Aroclor-1260	1.258	1.250	E3	0.7	95
18	L7	Aroclor-1260 {2}	821.251	788.496		4.0	93
19	L7	Aroclor-1260 {3}	1.080	0.777	E3	28.0#	71
20	L7	Aroclor-1260 {4}	1.107	1.057	E3	4.5	92
21	L7	Aroclor-1260 {5}	780.367	770.888		1.2	96
22	S	DCB	24.505	24.112	E3	1.6	95

(#) = Out of Range SPCC's out = 0 CCC's out = 0

3_091703.D XPCBI16.M Tue Sep 18 09:08:45 2001

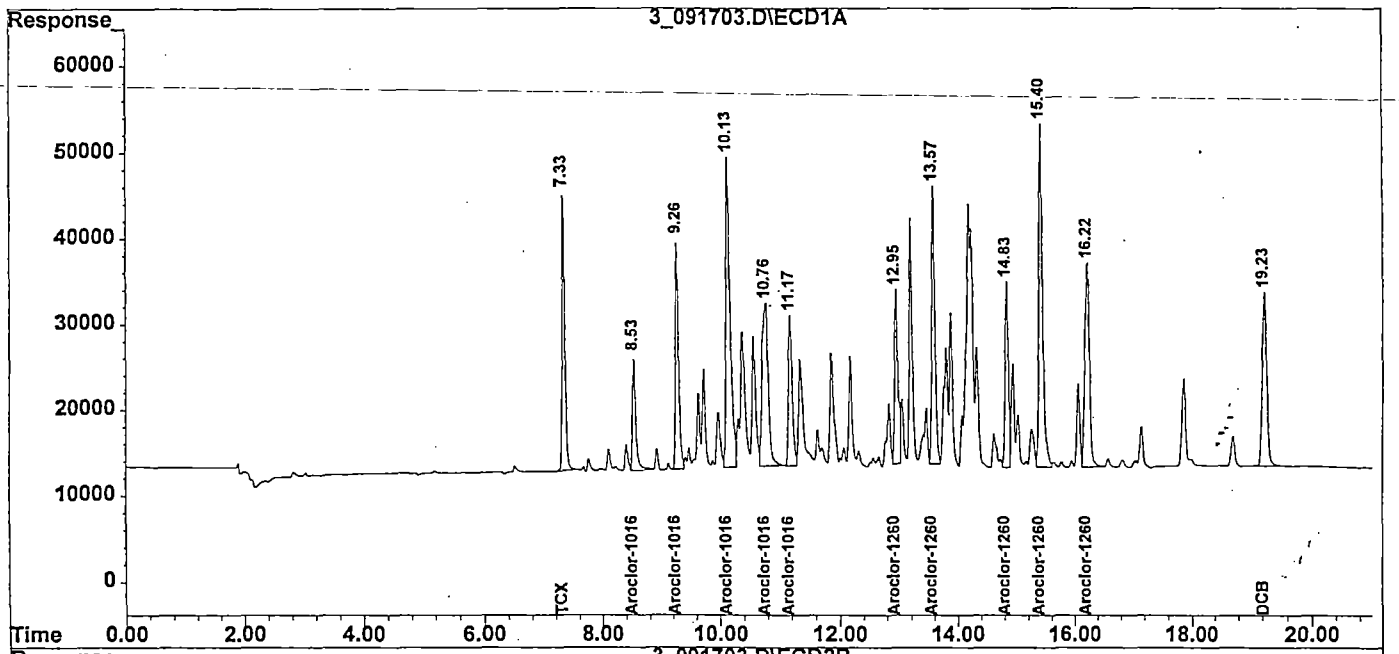
COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29600 SDG E0259
Signature Angelda M. Vellin
Date 09/20/01

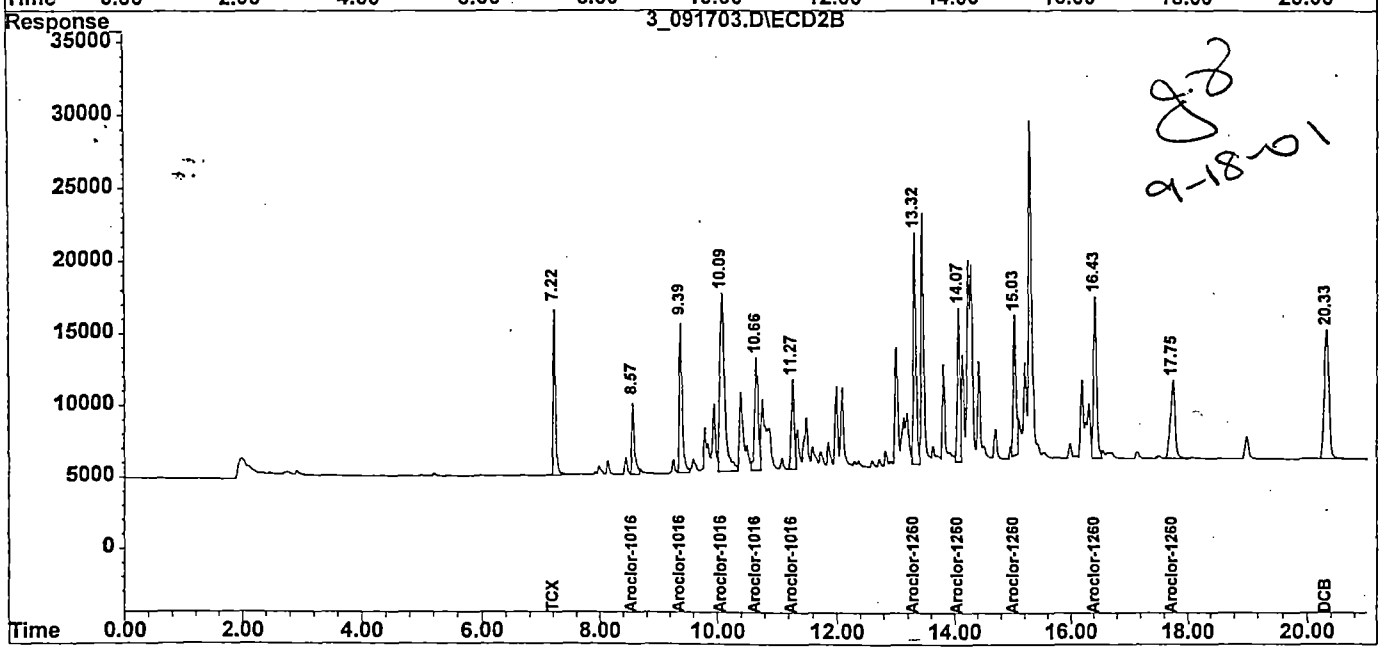
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091703.D\ECD1A.CH Vial: 3
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091703.D\ECD2B.CH
Acq On : 17 Sep 2001 17:53 Operator: BTB
Sample : AR1660L33F Inst : HP_03
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 18 9:08 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





9-18-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091703.D\ECD1A.CH Vial: 3
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091703.D\ECD2B.CH
Acq On : 17 Sep 2001 17:53 Operator: BTB
Sample : AR1660L33F Inst : HP_03
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 18 9:08 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

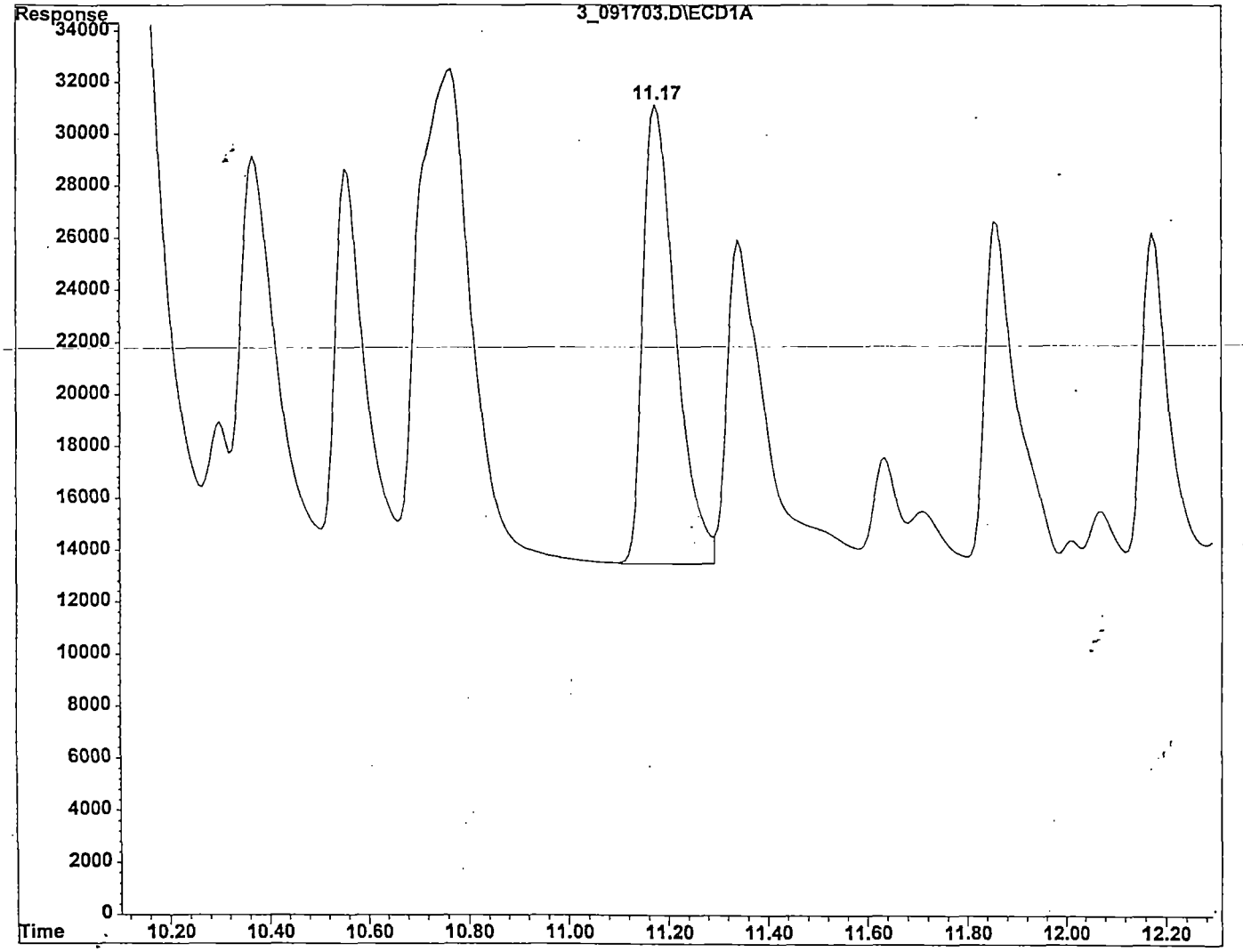
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.33	7.22	1027014	315062	18.9	19.4	
22)	S DCB	19.24	20.33	1056161	482239	18.8	19.7	
	Target Compounds:							
2)	L1 Aroclor-1016	8.53	8.57	519718	162940	383.5	423.5	
3)	L1 Aroclor-1016 {2}	9.26	9.39	952519	360492	375.7	407.2	
4)	L1 Aroclor-1016 {3}	10.13	10.09	1804305	705937	382.4	415.7	
5)	L1 Aroclor-1016 {4}	10.77	10.66	1391779	329006	376.9	416.5	
6)	L1 Aroclor-1016 {5}	11.17	11.27	805088	211410	410.3m BTB	405.0	
	Sum Aroclor-1016			5473409	1769786	1928.8	2067.9	
	Average Aroclor-1016					385.753	413.572	
17)	L7 Aroclor-1260	12.95	13.32	795063	500037	372.3	397.4	
18)	L7 Aroclor-1260 {2}	13.57	14.08	1202376	315398	370.2m	384.0	
19)	L7 Aroclor-1260 {3}	14.83	15.04	810252	310825	390.0	287.9	#
20)	L7 Aroclor-1260 {4}	15.41	16.43	1769467	422696	378.5	381.9	
21)	L7 Aroclor-1260 {5}	16.22	17.76	1352506	308355	380.0	395.1	
	Sum Aroclor-1260			5929664	1857311	1891.0	1846.3	
	Average Aroclor-1260					378.197	369.262	

(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\3\DATA\09_17_01\3_091703.D
Date Acquired: 17 Sep 2001 17:53
Inst: HP_03 Operator ID: BTB
Name: AR1660L33F
Misc: 5-210-7
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 18 9:08 2001 Quant Results File: XPCBI16.RES



Aroclor-1016 {5} 11.17min area: 805088 m

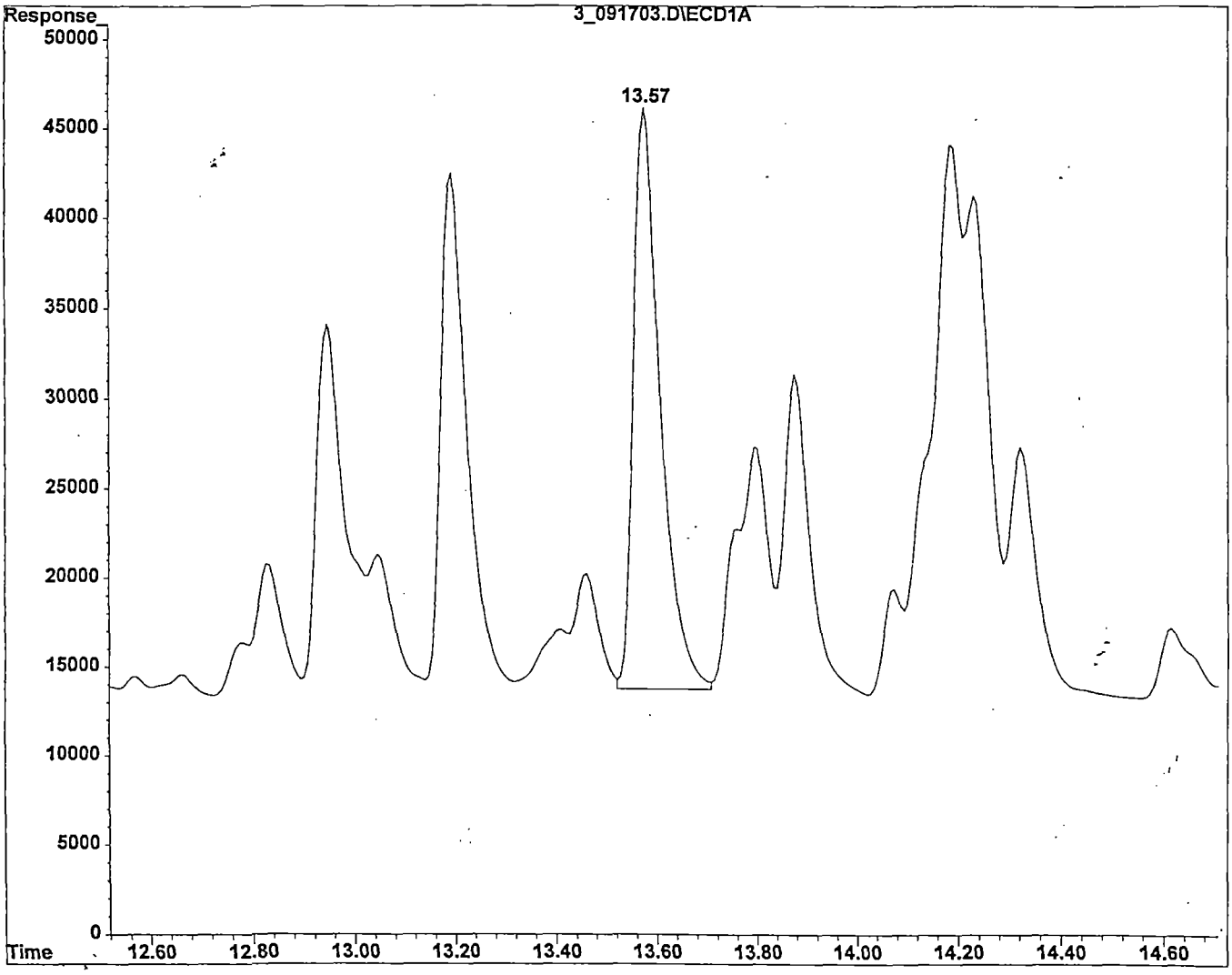
BTB 091801

Integration Time Range: 11.10 - 11.29

F:\HPCHEM\HP\3\DATA\09_17_01\3_091703.D
Report generated: Tue Sep 18 09:10:06 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091703.D
Date Acquired: 17 Sep 2001 17:53
Inst: HP_03 Operator ID: BTB
Name: AR1660L33F
Misc: 5-210-7
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 18 9:08 2001 Quant Results File: XPCBI16.RES



Aroclor-1260 {2} 13.57min area: 1202376 m

BTB
091801

Integration Time Range: 13.52 - 13.71

F:\HPCHEM\HP\3\DATA\09_17_01\3_091703.D
Report generated: Tue Sep 18 09:10:07 2001

Continuing Calibration Report HP_03

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Tue Sep 18 09:12:00 2001
Response via : Initial Calibration

Continuing Calibration File: 3_091719.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	54.217	53.398	E3	1.5	95
2	L1	Aroclor-1016	1.355	1.277	E3	5.8	93
3	L1	Aroclor-1016 {2}	2.535	2.372	E3	6.4	91
4	L1	Aroclor-1016 {3}	4.718	4.573	E3	3.1	91
5	L1	Aroclor-1016 {4}	3.693	3.406	E3	7.8	90
6	L1	Aroclor-1016 {5}	1.962	1.916	E3	2.3	91
17	L7	Aroclor-1260	2.135	1.896	E3	11.2	88
18	L7	Aroclor-1260 {2}	3.248	2.932	E3	9.7	88
19	L7	Aroclor-1260 {3}	2.077	2.009	E3	3.3	93
20	L7	Aroclor-1260 {4}	4.675	4.328	E3	7.4	91
21	L7	Aroclor-1260 {5}	3.560	3.380	E3	5.0	92
22	S	DCB	56.261	50.930	E3	9.5	89

Signal #2
Continuing Calibration File: 3_091719.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	16.207	16.605	E3	-2.5	98
2	L1	Aroclor-1016	384.734	409.893		-6.5	101
3	L1	Aroclor-1016 {2}	885.369	907.619		-2.5	98
4	L1	Aroclor-1016 {3}	1.698	1.816	E3	-6.9	100
5	L1	Aroclor-1016 {4}	789.988	846.815		-7.2	100
6	L1	Aroclor-1016 {5}	521.940	543.051		-4.0	100
17	L7	Aroclor-1260	1.258	1.261	E3	-0.2	96
18	L7	Aroclor-1260 {2}	821.251	795.871		3.1	94
19	L7	Aroclor-1260 {3}	1.080	1.125	E3	-4.2	103
20	L7	Aroclor-1260 {4}	1.107	1.087	E3	1.8	95
21	L7	Aroclor-1260 {5}	780.367	774.807		0.7	97
22	S	DCB	24.505	24.767	E3	-1.1	97

(#) = Out of Range SPCC's out = 0 CCC's out = 0

3_091719.D XPCBI16.M Tue Sep 18 09:12:09 2001

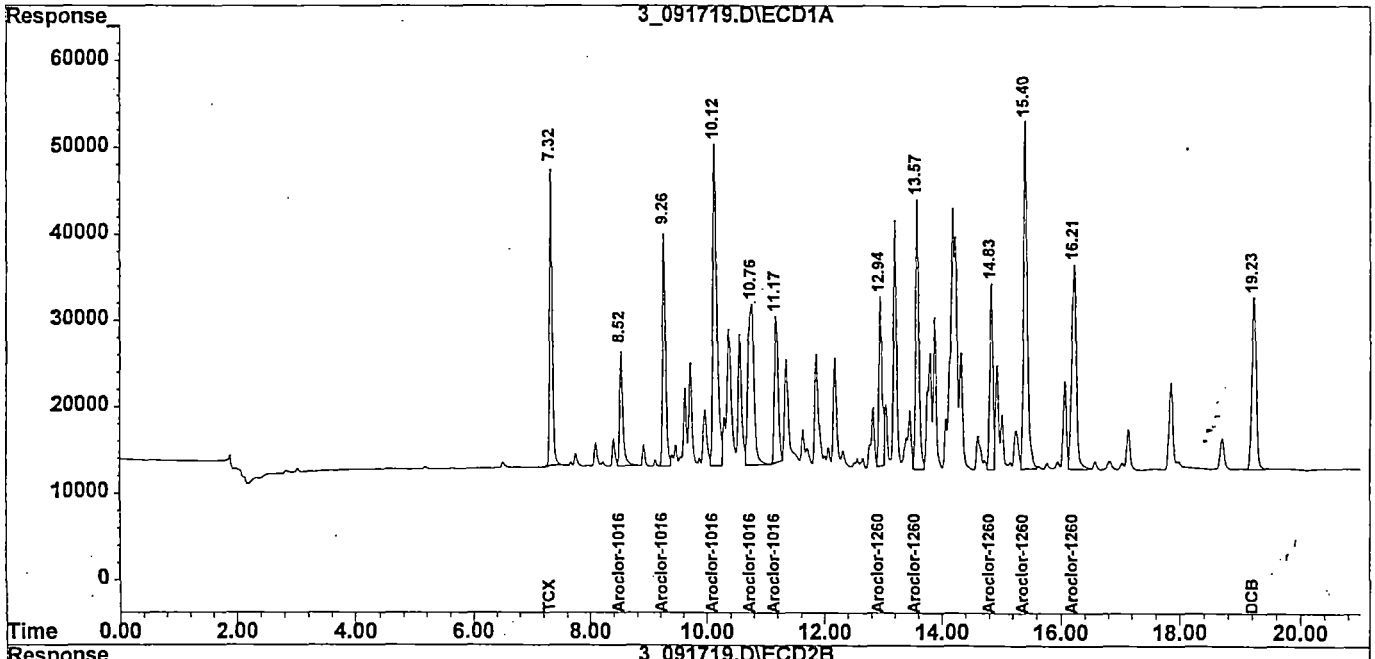
COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29602 SDG E0259
Signature Arelda M. Willi
Date 09/20/01

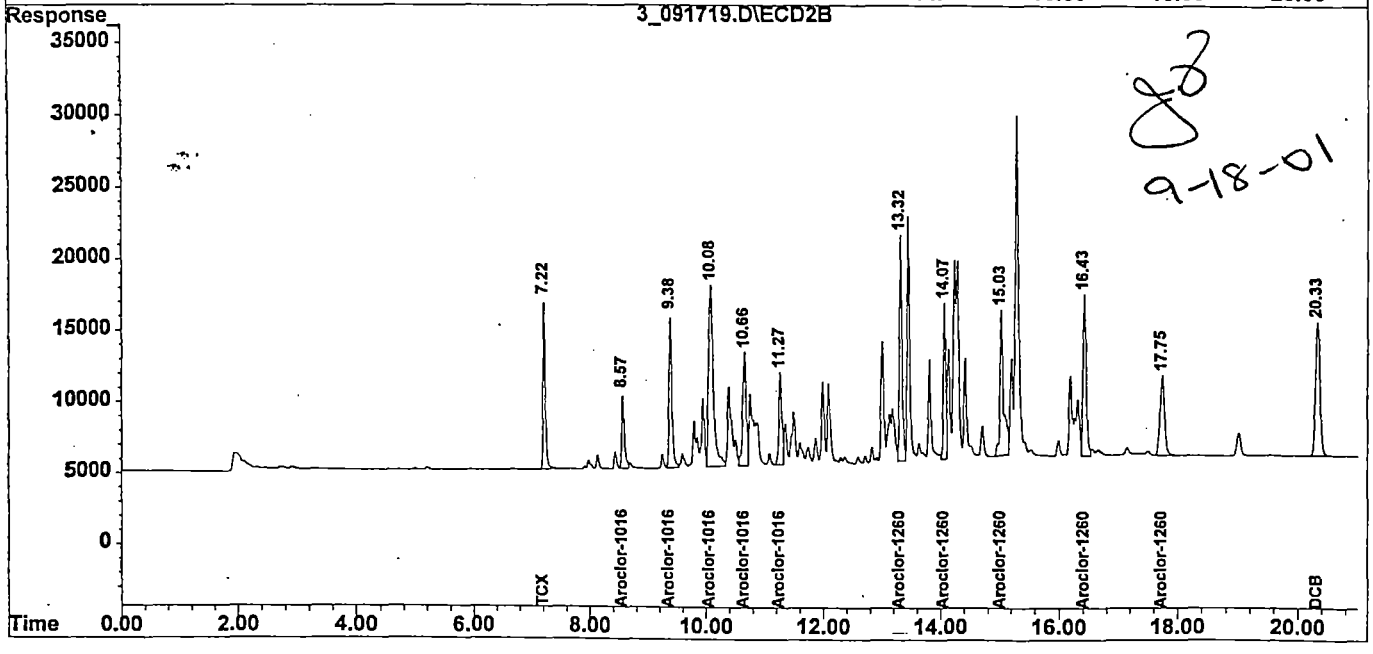
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091719.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091719.D\ECD2B.CH
Acq On : 18 Sep 2001 00:44 Operator: BTB
Sample : AR1660L33H Inst : HP_03
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 18 9:11 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





9-18-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091719.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091719.D\ECD2B.CH
Acq On : 18 Sep 2001 00:44 Operator: BTB
Sample : AR1660L33H Inst : HP_03
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 18 9:11 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

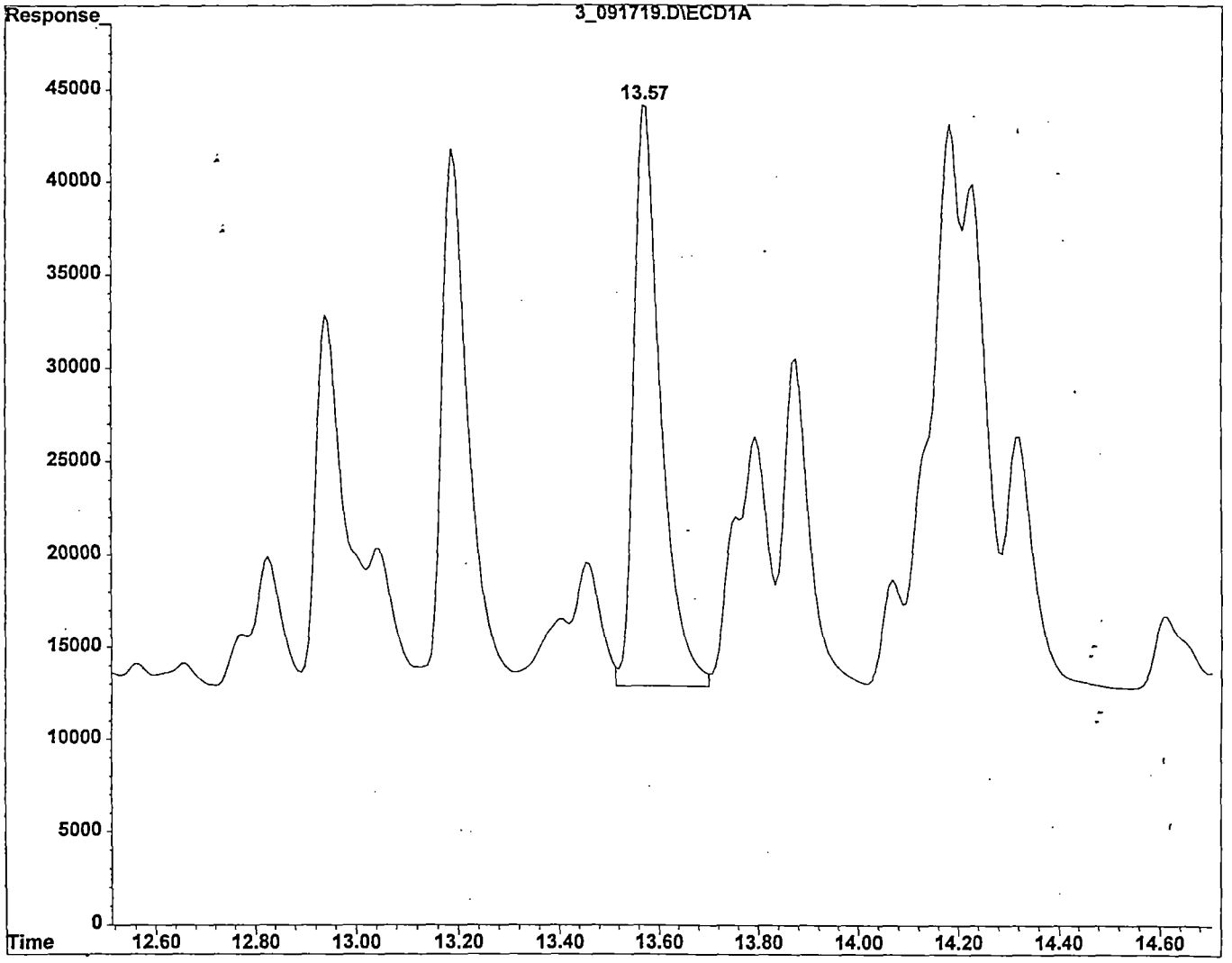
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	1067954	332103	19.7	20.5
22)	S DCB	19.23	20.33	1018591	495339	18.1	20.2
	Target Compounds:						
2)	L1 Aroclor-1016	8.52	8.57	510692	163957	376.8	426.2
3)	L1 Aroclor-1016 {2}	9.26	9.39	948861	363048	374.2	410.1
4)	L1 Aroclor-1016 {3}	10.12	10.08	1829249	726513	387.7	427.8
5)	L1 Aroclor-1016 {4}	10.76	10.66	1362591	338726	369.0	428.8
6)	L1 Aroclor-1016 {5}	11.17	11.27	766420	217220	390.6	416.2
	Sum Aroclor-1016			5417813	1809464	1898.3	2108.9
	Average Aroclor-1016					379.668	421.788
17)	L7 Aroclor-1260	12.94	13.32	758259	504436	355.1	400.9
18)	L7 Aroclor-1260 {2}	13.57	14.07	1172772	318349	361.0m BTB	387.6
19)	L7 Aroclor-1260 {3}	14.83	15.03	803449	450114	386.8 091811	416.9
20)	L7 Aroclor-1260 {4}	15.40	16.43	1731085	434871	370.3	392.9
21)	L7 Aroclor-1260 {5}	16.22	17.75	1352048	309923	379.8	397.2
	Sum Aroclor-1260			5817613	2017691	1853.0	1995.4
	Average Aroclor-1260					370.605	399.084

(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\3\DATA\09_17_01\3_091719.D
Date Acquired: 18 Sep 2001 00:44
Inst: HP_03 Operator ID: BTB
Name: AR1660L33H
Misc: 5-210-7
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 18 9:11 2001 Quant Results File: XPCBI16.RES



Aroclor-1260 {2} 13.57min area: 1172772 m

Integration Time Range: 13.51 - 13.70

BTB
091801

F:\HPCHEM\HP\3\DATA\09_17_01\3_091719.D
Report generated: Tue Sep 18 09:13:25 2001

Continuing Calibration Report HP_03

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Tue Sep 18 09:22:51 2001
Response via : Initial Calibration

Continuing Calibration File: 3_091736.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	54.217	54.454	E3	-0.4	97
2	L1	Aroclor-1016	1.355	1.300	E3	4.1	94
3	L1	Aroclor-1016 {2}	2.535	2.413	E3	4.8	93
4	L1	Aroclor-1016 {3}	4.718	4.640	E3	1.6	93
5	L1	Aroclor-1016 {4}	3.693	3.388	E3	8.3	90
6	L1	Aroclor-1016 {5}	1.962	1.871	E3	4.6	89
17	L7	Aroclor-1260	2.135	1.818	E3	14.9	84
18	L7	Aroclor-1260 {2}	3.248	2.801	E3	13.8	85
19	L7	Aroclor-1260 {3}	2.077	1.908	E3	8.1	89
20	L7	Aroclor-1260 {4}	4.675	4.135	E3	11.5	86
21	L7	Aroclor-1260 {5}	3.560	3.203	E3	10.0	87
22	S	DCB	56.261	50.967	E3	9.4	89

Signal #2
Continuing Calibration File: 3_091736.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	16.207	16.496	E3	-1.8	97
2	L1	Aroclor-1016	384.734	410.873		-6.8	101
3	L1	Aroclor-1016 {2}	885.369	905.930		-2.3	98
4	L1	Aroclor-1016 {3}	1.698	1.766	E3	-4.0	97
5	L1	Aroclor-1016 {4}	789.988	850.213		-7.6	100
6	L1	Aroclor-1016 {5}	521.940	543.572		-4.1	100
17	L7	Aroclor-1260	1.258	1.230	E3	2.3	93
18	L7	Aroclor-1260 {2}	821.251	847.047		-3.1	100
19	L7	Aroclor-1260 {3}	1.080	0.868	E3	19.6#	79
20	L7	Aroclor-1260 {4}	1.107	1.064	E3	3.9	93
21	L7	Aroclor-1260 {5}	780.367	770.058		1.3	96
22	S	DCB	24.505	24.778	E3	-1.1	97

(#) = Out of Range SPCC's out = 0 CCC's out = 0

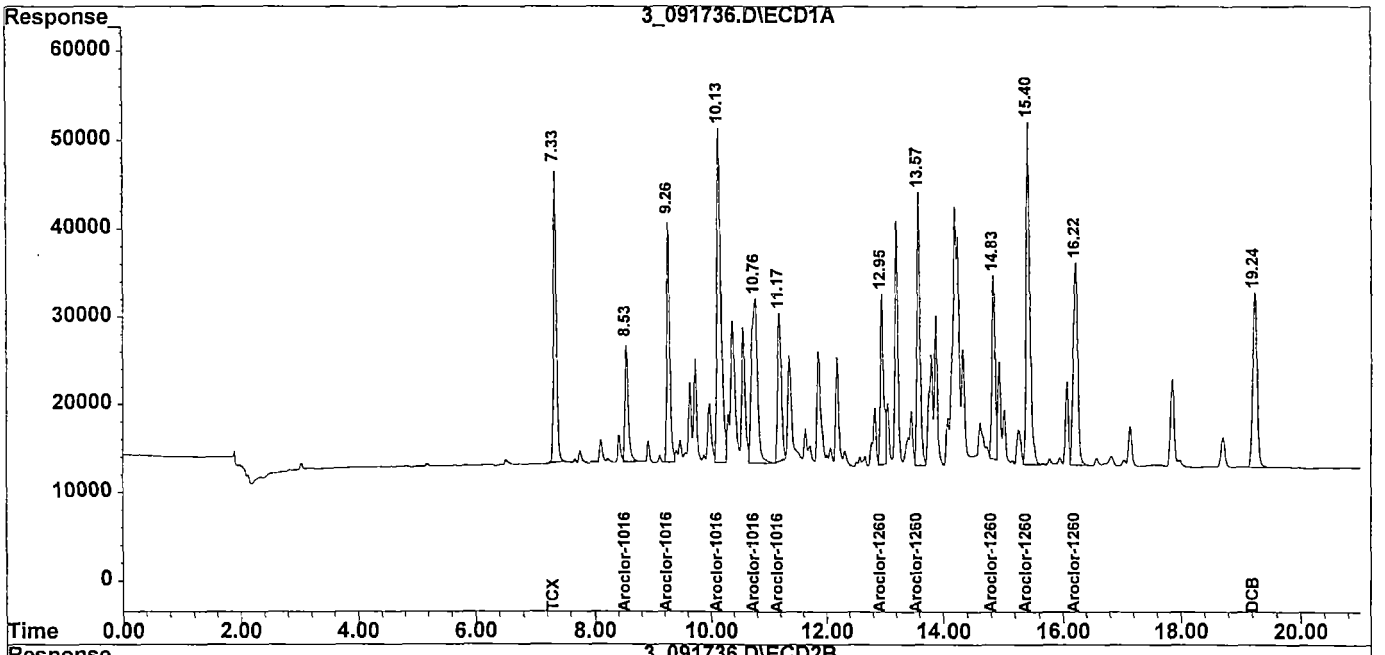
3_091736.D XPCBI16.M Tue Sep 18 09:23:04 2001

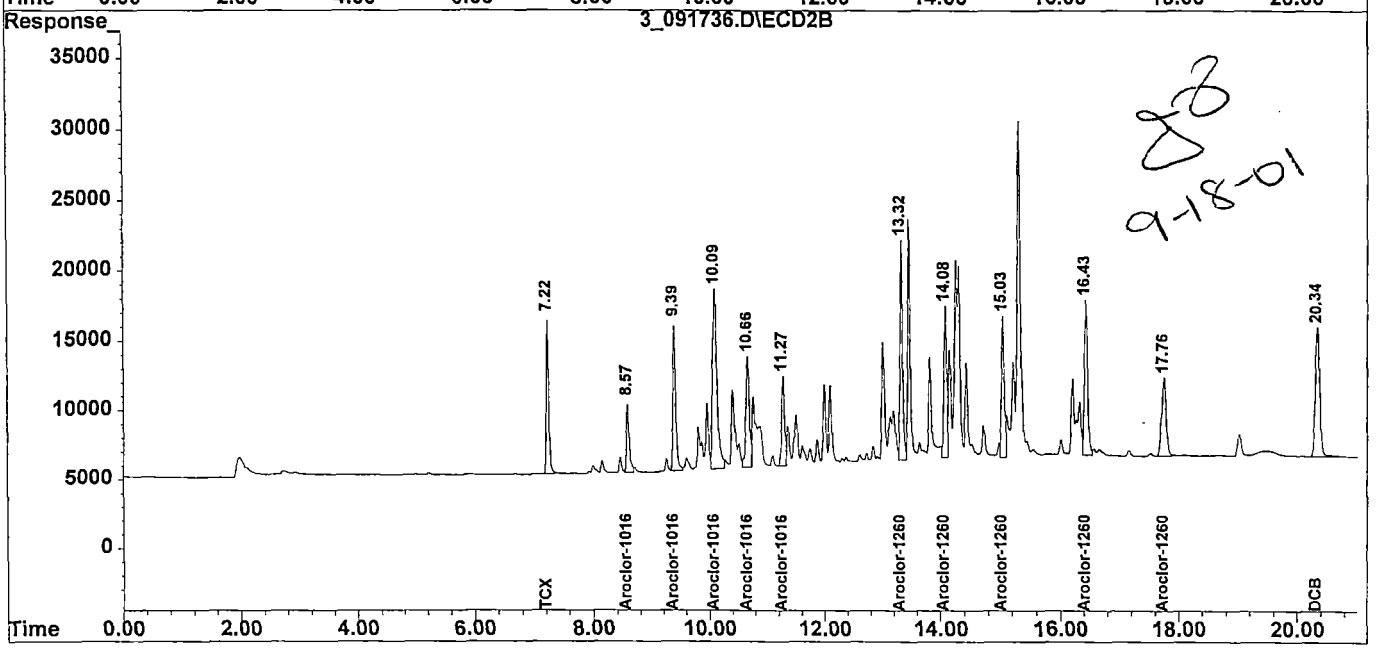
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091736.D\ECD1A.CH Vial: 36
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091736.D\ECD2B.CH
Acq On : 18 Sep 2001 7:59 Operator: BTB
Sample : AR1660L33J Inst : HP_03
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 18 9:22 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





9-18-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091736.D\ECD1A.CH Vial: 36
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091736.D\ECD2B.CH
Acq On : 18 Sep 2001 7:59 Operator: BTB
Sample : AR1660L33J Inst : HP_03
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 18 9:22 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

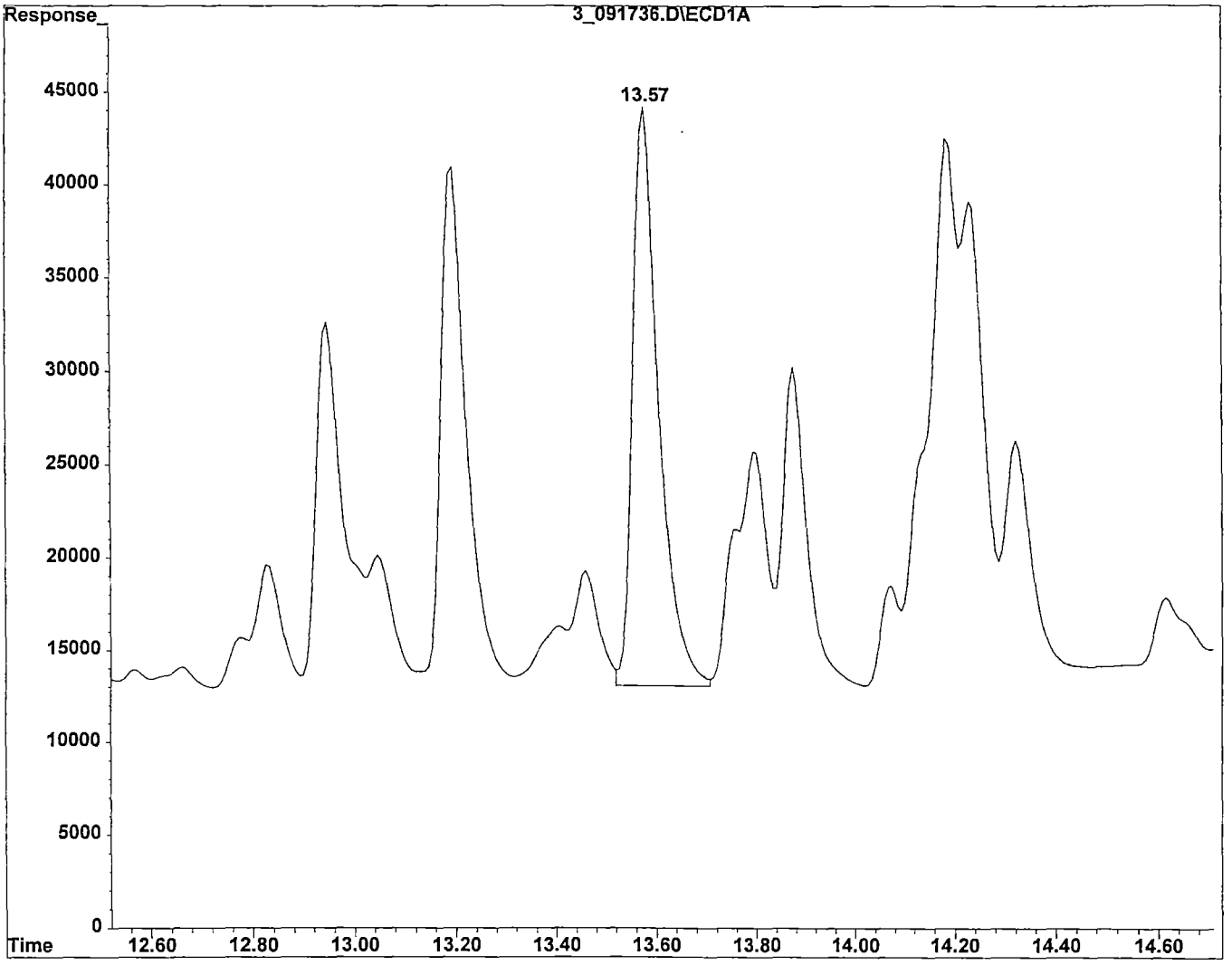
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds:						
1) S TCX	7.33	7.22	1089082	329917	20.1	20.4
22) S DCB	19.24	20.34	1019346	495553	18.1	20.2
Target Compounds:						
2) L1 Aroclor-1016	8.53	8.57	519823	164349	383.5	427.2
3) L1 Aroclor-1016 {2}	9.26	9.39	965121	362372	380.7	409.3
4) L1 Aroclor-1016 {3}	10.13	10.09	1856131	706347	393.4	415.9
5) L1 Aroclor-1016 {4}	10.77	10.67	1355210	340085	367.0	430.5
6) L1 Aroclor-1016 {5}	11.18	11.28	748457	217429	381.4	416.6
Sum Aroclor-1016			5444742	1790582	1906.0	2099.4
Average Aroclor-1016					381.207	419.888
17) L7 Aroclor-1260	12.95	13.32	727170	491883	340.5	390.9
18) L7 Aroclor-1260 {2}	13.57	14.08	1120392	338819	344.9m BTB	412.6
19) L7 Aroclor-1260 {3}	14.83	15.03	763353	347276	367.5 091801	321.7m BTB
20) L7 Aroclor-1260 {4}	15.41	16.43	1653947	425632	353.8	384.5 091801
21) L7 Aroclor-1260 {5}	16.22	17.76	1281121	308023	359.9	394.7
Sum Aroclor-1260			5545984	1911634	1766.6	1904.3
Average Aroclor-1260					353.322	380.868

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091736.D
Date Acquired: 18 Sep 2001 7:59
Inst: HP_03 Operator ID: BTB
Name: AR1660L33J
Misc: 5-210-7
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 18 9:22 2001 Quant Results File: XPCBI16.RES



Aroclor-1260 {2} 13.57min area: 1120392 m

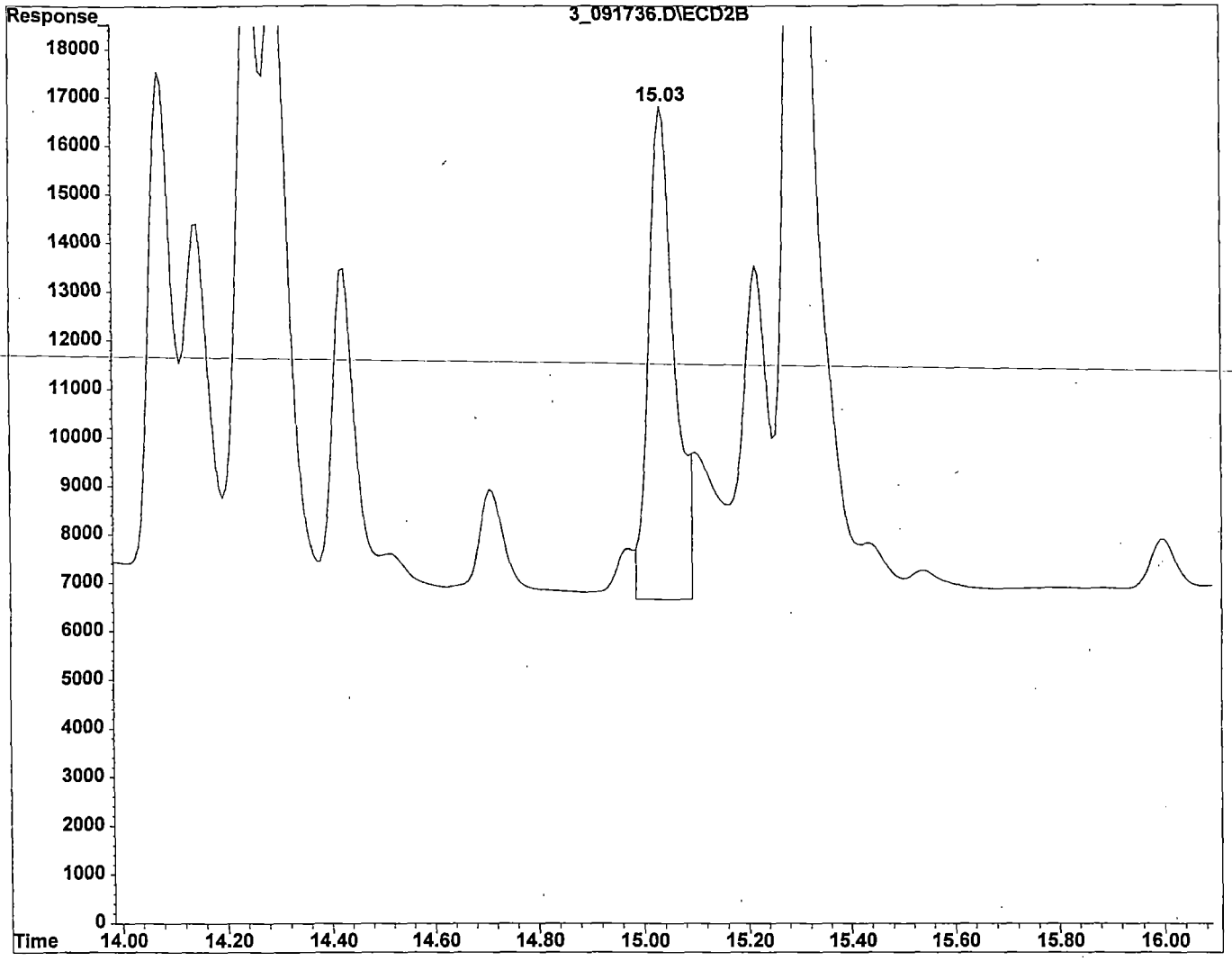
BTB 091801

Integration Time Range: 13.52 - 13.71

F:\HPCHEM\HP\3\DATA\09_17_01\3_091736.D
Report generated: Tue Sep 18 09:24:26 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091736.D
Date Acquired: 18 Sep 2001 7:59
Inst: HP_03 Operator ID: BTB
Name: AR1660L33J
Misc: 5-210-7
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 18 9:22 2001 Quant Results File: XPCBI16.RES



Aroclor-1260 {3} #2 15.03min area: 347276 m

Integration Time Range: 14.98 - 15.09

BTB 091801

F:\HPCHEM\HP\3\DATA\09_17_01\3_091736.D
Report generated: Tue Sep 18 09:24:26 2001

Continuing Calibration Report HP_03

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Tue Sep 18 17:09:49 2001
Response via : Initial Calibration

Continuing Calibration File: 3_091753.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	54.217	51.260	E3	5.5	91
2	L1	Aroclor-1016	1.355	1.226	E3	9.6	89
3	L1	Aroclor-1016 {2}	2.535	2.332	E3	8.0	90
4	L1	Aroclor-1016 {3}	4.718	4.576	E3	3.0	91
5	L1	Aroclor-1016 {4}	3.693	3.419	E3	7.4	91
6	L1	Aroclor-1016 {5}	1.962	1.945	E3	0.9	93
17	L7	Aroclor-1260	2.135	1.880	E3	11.9	87
18	L7	Aroclor-1260 {2}	3.248	2.782	E3	14.4	84
19	L7	Aroclor-1260 {3}	2.077	1.946	E3	6.3	90
20	L7	Aroclor-1260 {4}	4.675	4.290	E3	8.2	90
21	L7	Aroclor-1260 {5}	3.560	3.273	E3	8.1	89
22	S	DCB	56.261	50.738	E3	9.8	88

Signal #2
Continuing Calibration File: 3_091753.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	16.207	15.108	E3	6.8	89
2	L1	Aroclor-1016	384.734	380.031		1.2	93
3	L1	Aroclor-1016 {2}	885.369	846.325		4.4	92
4	L1	Aroclor-1016 {3}	1.698	1.680	E3	1.1	92
5	L1	Aroclor-1016 {4}	789.988	787.673		0.3	93
6	L1	Aroclor-1016 {5}	521.940	505.493		3.2	93
17	L7	Aroclor-1260	1.258	1.191	E3	5.4	90
18	L7	Aroclor-1260 {2}	821.251	769.308		6.3	90
19	L7	Aroclor-1260 {3}	1.080	0.755	E3	30.1#	69
20	L7	Aroclor-1260 {4}	1.107	1.014	E3	8.4	89
21	L7	Aroclor-1260 {5}	780.367	757.679		2.9	95
22	S	DCB	24.505	23.092	E3	5.8	91

(#) = Out of Range SPCC's out = 0 CCC's out = 0

3_091753.D XPCBI16.M Tue Sep 18 17:10:32 2001

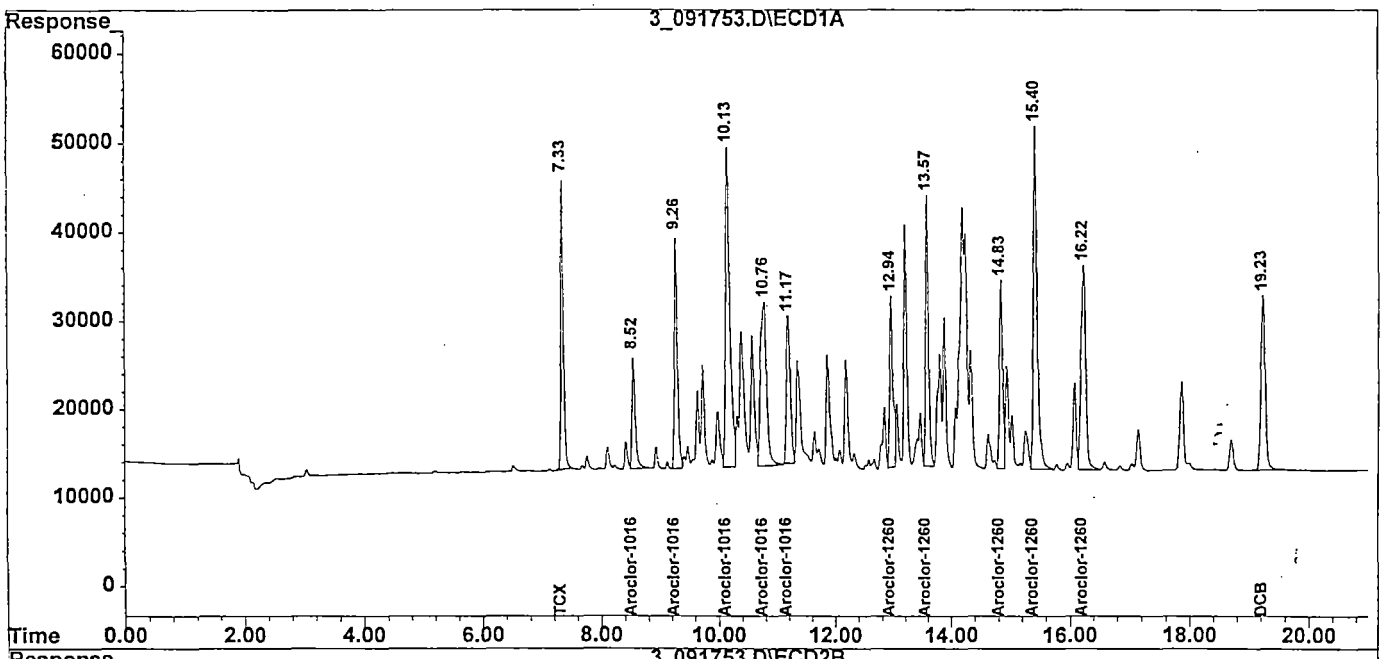
COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29602 SDG E02P5
Signature Arnelda M. Vellini
Date 09/24/01

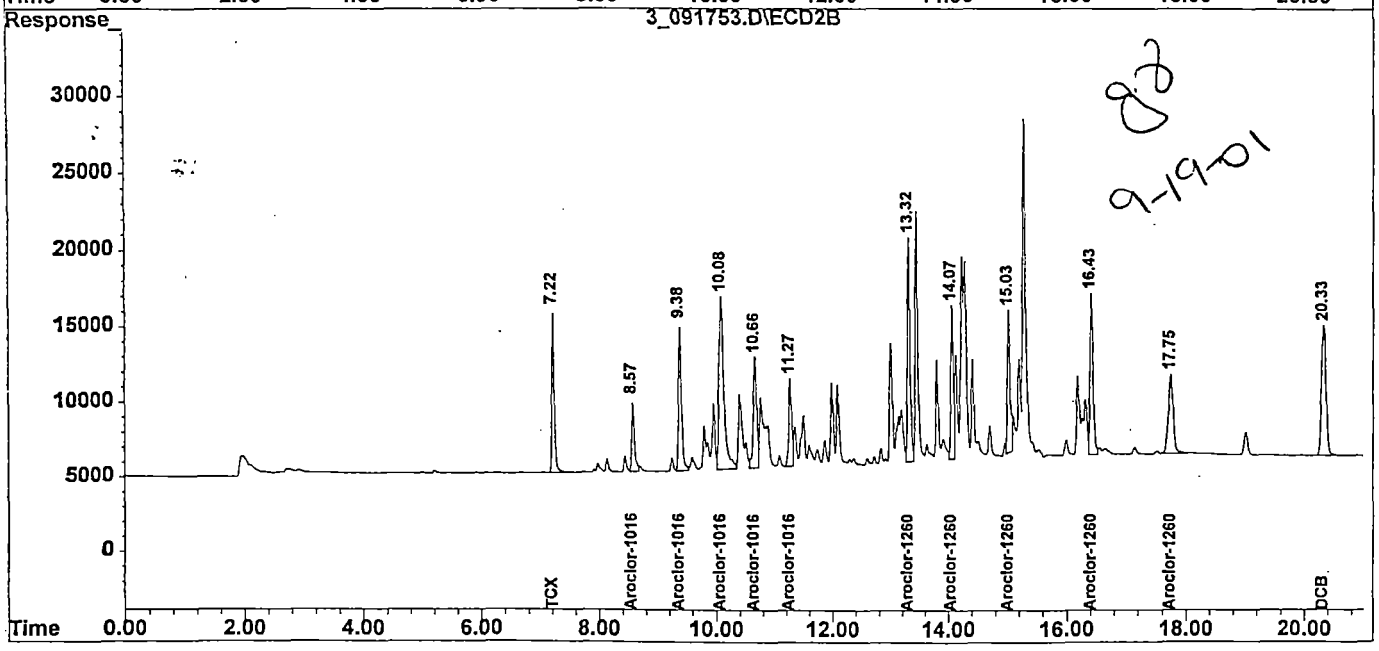
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091753.D\ECD1A.CH Vial: 53
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091753.D\ECD2B.CH
Acq On : 18 Sep 2001 15:16 Operator: BTB
Sample : AR1660L33L Inst : HP_03
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 18 17:09 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





8?
9-19-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091753.D\ECD1A.CH Vial: 53
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091753.D\ECD2B.CH
Acq On : 18 Sep 2001 15:16 Operator: BTB
Sample : AR1660L33L Inst : HP_03
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 18 17:09 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

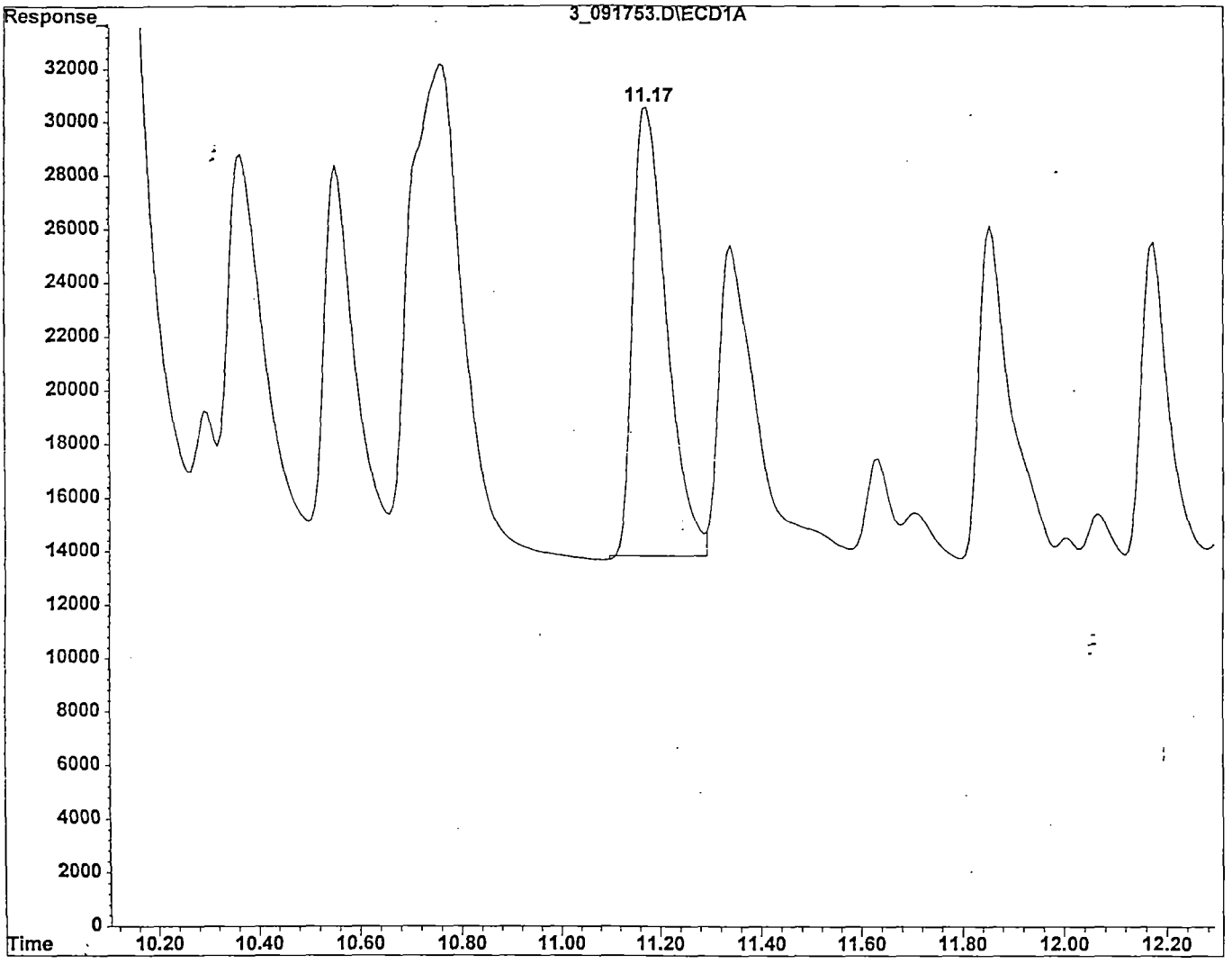
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	1025207	302152	18.9	18.6
22)	S DCB	19.23	20.34	1014764	461838	18.0	18.8
	Target Compounds:						
2)	L1 Aroclor-1016	8.53	8.57	490336	152013	361.8	395.1
3)	L1 Aroclor-1016 {2}	9.26	9.39	932808	338530	367.9	382.4
4)	L1 Aroclor-1016 {3}	10.13	10.09	1830409	672056	388.0	395.7
5)	L1 Aroclor-1016 {4}	10.76	10.66	1367432	315069	370.3	398.8
6)	L1 Aroclor-1016 {5}	11.17	11.27	777904	202197	396.5m BTB 091801	387.4
	Sum Aroclor-1016			5398889	1679865	1884.4	1959.4
	Average Aroclor-1016					376.880	391.881
17)	L7 Aroclor-1260	12.95	13.32	752157	476293	352.2	378.5
18)	L7 Aroclor-1260 {2}	13.57	14.08	1112744	307723	342.6m	374.7
19)	L7 Aroclor-1260 {3}	14.83	15.04	778305	301892	374.7	279.6 #
20)	L7 Aroclor-1260 {4}	15.40	16.43	1715985	405501	367.1	366.3
21)	L7 Aroclor-1260 {5}	16.22	17.76	1309182	303072	367.8	388.4
	Sum Aroclor-1260			5668374	1794480	1804.3	1787.5
	Average Aroclor-1260					360.862	357.504

(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\3\DATA\09_17_01\3_091753.D
Date Acquired: 18 Sep 2001 15:16
Inst: HP_03 Operator ID: BTB
Name: AR1660L33L
Misc: 5-210-7
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 18 17:09 2001 Quant Results File: XPCBI16.RES

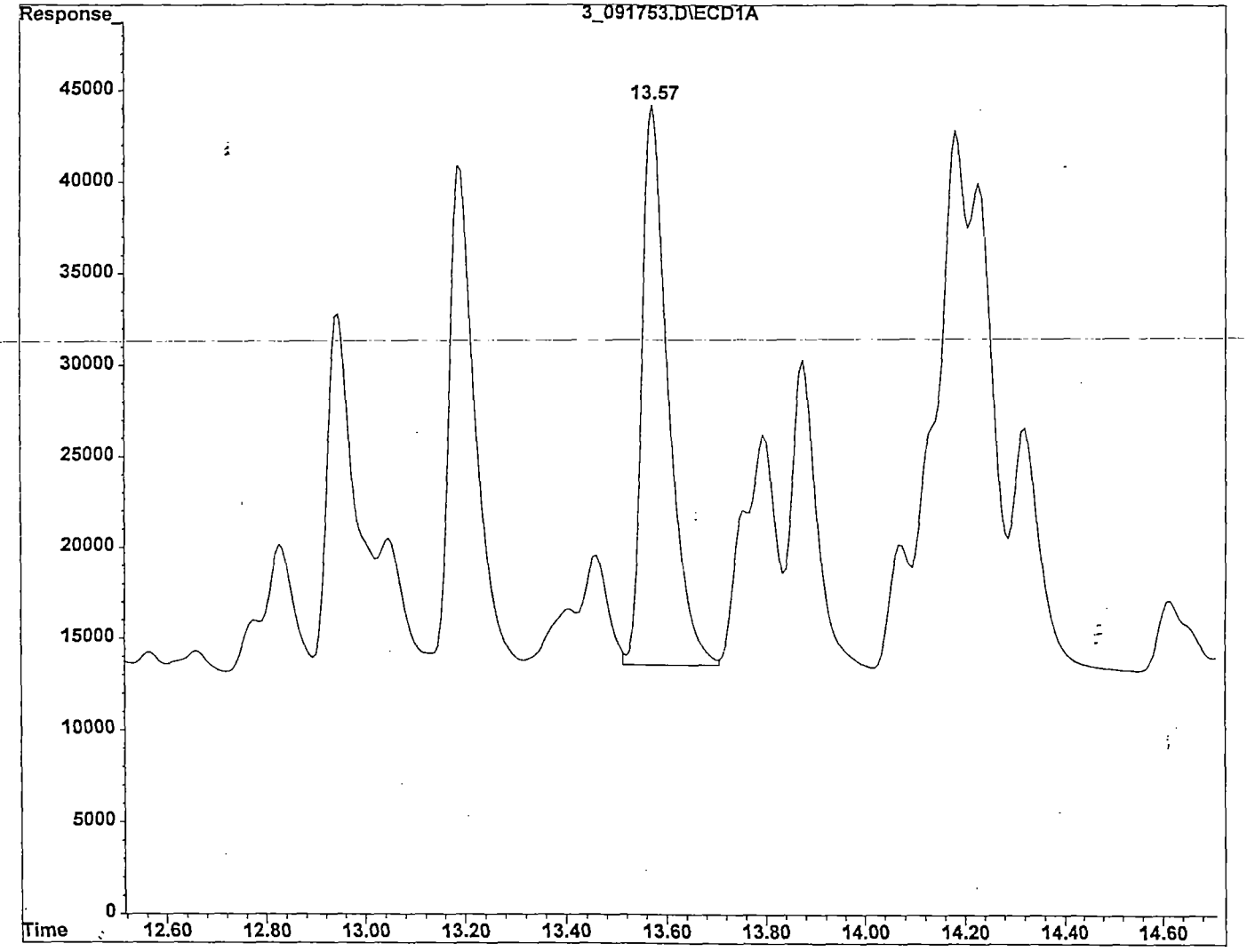


Aroclor-1016 {5} 11.17min area: 777904 m BTB 091801

Integration Time Range: 11.10 - 11.29

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091753.D
Date Acquired: 18 Sep 2001 15:16
Inst: HP_03 Operator ID: BTB
Name: AR1660L33L
Misc: 5-210-7
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 18 17:09 2001 Quant Results File: XPCBI16.RES



Aroclor-1260 {2} 13.57min area: 1112744 m BTB 091801

Integration Time Range: 13.52 - 13.71

Continuing Calibration Report HP_03

Method : F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 20 07:30:10 2001
Response via : Initial Calibration

Continuing Calibration File: 3_091845.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

ok 9-22-01

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	54.217	55.554	E3	-2.5	98
2	L1	Aroclor-1016	1.355	1.384	E3	-2.1	100
3	L1	Aroclor-1016 {2}	2.535	2.545	E3	-0.4	98
4	L1	Aroclor-1016 {3}	4.718	4.835	E3	-2.5	96
5	L1	Aroclor-1016 {4}	3.693	3.792	E3	-2.7	101
6	L1	Aroclor-1016 {5}	1.962	2.046	E3	-4.3	98
17	L7	Aroclor-1260	2.135	2.074	E3	2.9	96
18	L7	Aroclor-1260 {2}	3.248	3.111	E3	4.2	94
19	L7	Aroclor-1260 {3}	2.077	2.170	E3	-4.5	101
20	L7	Aroclor-1260 {4}	4.675	4.795	E3	-2.6	100
21	L7	Aroclor-1260 {5}	3.560	3.625	E3	-1.8	98
22	S	DCB	56.261	59.090	E3	-5.0	103

Signal #2
Continuing Calibration File: 3_091845.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	16.207	15.993	E3	1.3	94
2	L1	Aroclor-1016	384.734	439.746		-14.3	108
3	L1	Aroclor-1016 {2}	885.369	913.129		-3.1	99
4	L1	Aroclor-1016 {3}	1.698	1.840	E3	-8.4	101
5	L1	Aroclor-1016 {4}	789.988	849.294		-7.5	100
6	L1	Aroclor-1016 {5}	521.940	551.536		-5.7	102
17	L7	Aroclor-1260	1.258	1.281	E3	-1.8	97
18	L7	Aroclor-1260 {2}	821.251	840.479		-2.3	99
19	L7	Aroclor-1260 {3}	1.080	1.112	E3	-3.0	102
20	L7	Aroclor-1260 {4}	1.107	1.127	E3	-1.8	98
21	L7	Aroclor-1260 {5}	780.367	821.351		-5.3	103
22	S	DCB	24.505	25.394	E3	-3.6	100

(#) = Out of Range SPCC's out = 0 CCC's out = 0

3_091845.D XPCBI16.M Thu Sep 20 07:30:19 2001

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29602 SDG E03K0
Signature Angela M. Williams
Date 09/24/01

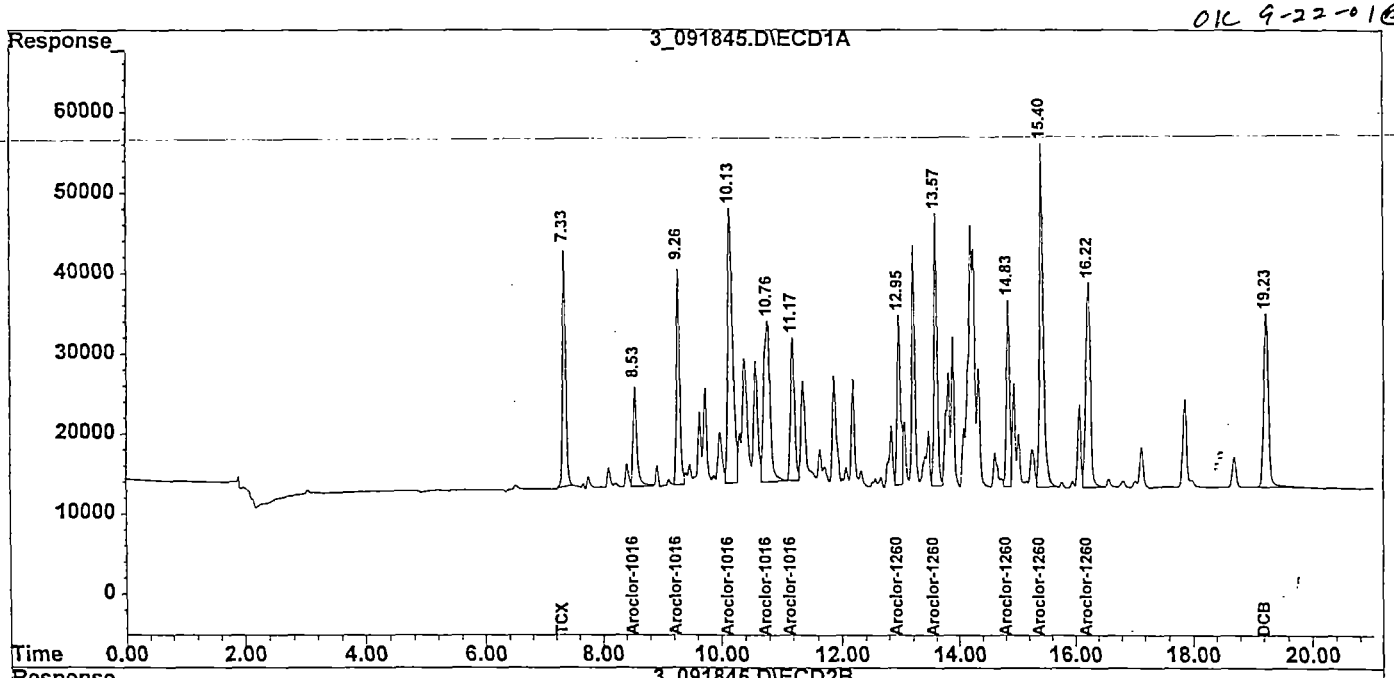
Chromatographic Report

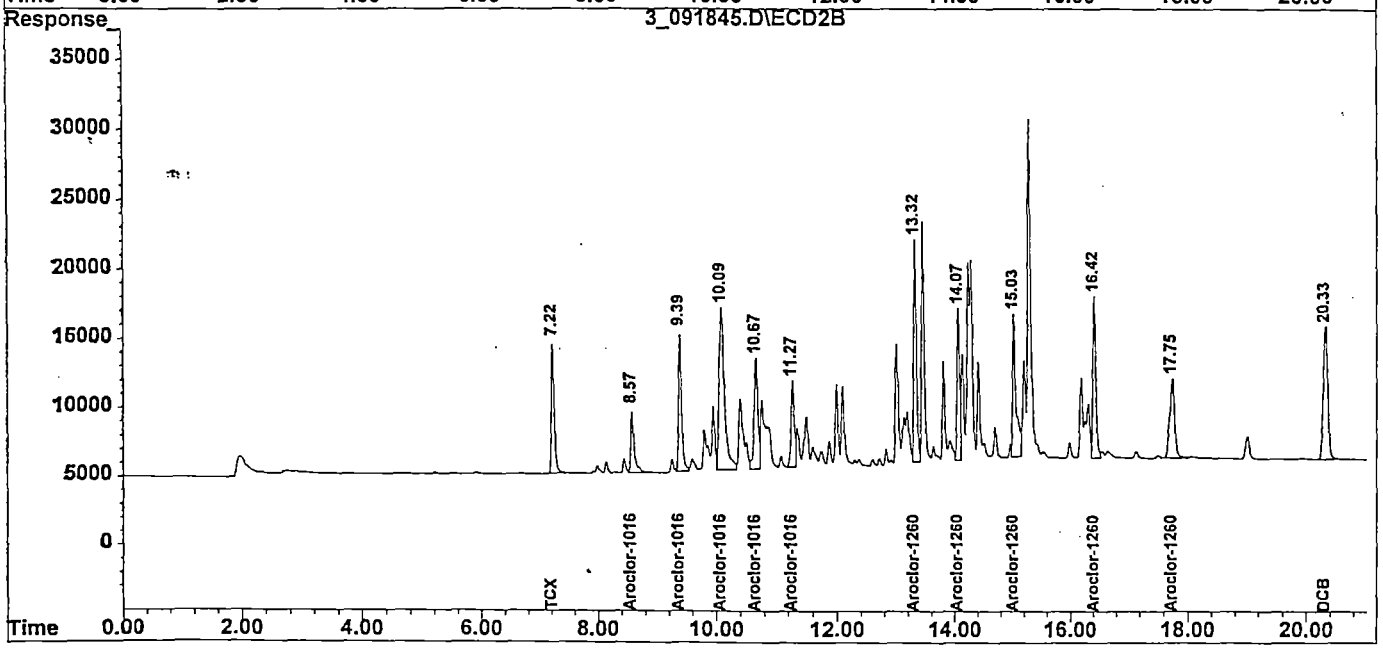
Signal #1 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091845.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091845.D\ECD2B.CH
Acq On : 19 Sep 2001 18:40 Operator: BTB
Sample : AR1660L33T Inst : HP_03
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 7:29 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

OK 9-22-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091845.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091845.D\ECD2B.CH
Acq On : 19 Sep 2001 18:40 Operator: BTB
Sample : AR1660L33T Inst : HP_03
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 7:29 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

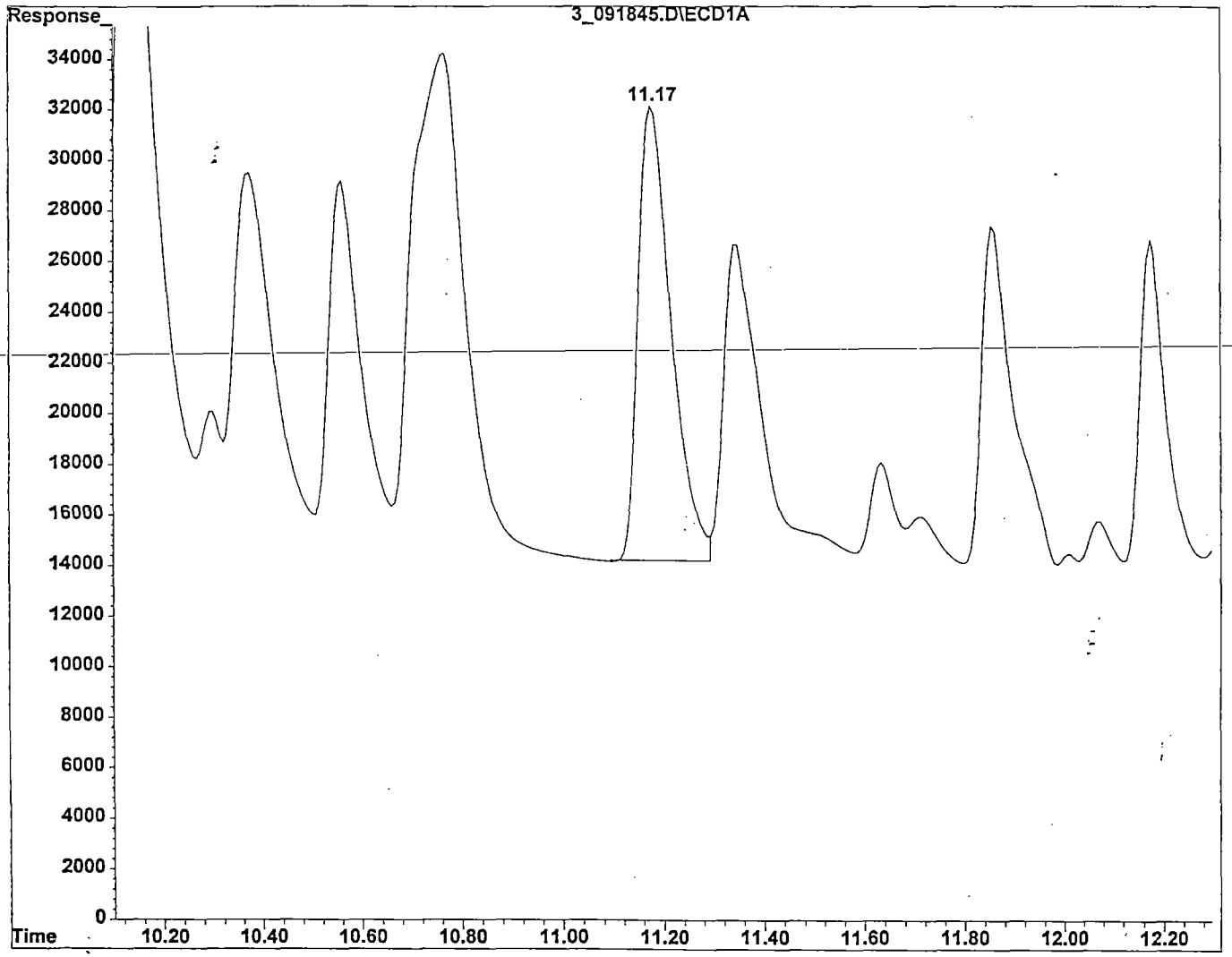
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	1111086	319851	20.5	19.7
22)	S DCB	19.23	20.33	1181805	507876	21.0	20.7
	Target Compounds:						
2)	L1 Aroclor-1016	8.53	8.57	553599	175899	408.5	457.2
3)	L1 Aroclor-1016 {2}	9.26	9.39	1018040	365251	401.5	412.5
4)	L1 Aroclor-1016 {3}	10.13	10.09	1933872	736188	409.9	433.5
5)	L1 Aroclor-1016 {4}	10.77	10.67	1516730	339718	410.7	430.0
6)	L1 Aroclor-1016 {5}	11.17	11.28	818228	220614	417.0m BTB	422.7
	Sum Aroclor-1016			5840469	1837670	2047.6 092001	2155.9
	Average Aroclor-1016					409.520	431.184
17)	L7 Aroclor-1260	12.95	13.32	829601	512548	388.5	407.3m BTB
18)	L7 Aroclor-1260 {2}	13.57	14.08	1244300	336192	383.1m	409.4 092001
19)	L7 Aroclor-1260 {3}	14.83	15.04	868157	444758	417.9	412.0
20)	L7 Aroclor-1260 {4}	15.40	16.43	1917916	450705	410.3	407.2
21)	L7 Aroclor-1260 {5}	16.22	17.76	1449857	328540	407.3	421.0
	Sum Aroclor-1260			6309831	2072743	2007.0	2056.8
	Average Aroclor-1260					401.409	411.359

(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\3\DATA\09_18_01\3_091845.D
Date Acquired: 19 Sep 2001 18:40
Inst: HP_03 Operator ID: BTB
Name: AR1660L33T
Misc: 5-210-7
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 7:29 2001 Quant Results File: XPCBI16.RES



OK 9-22-01

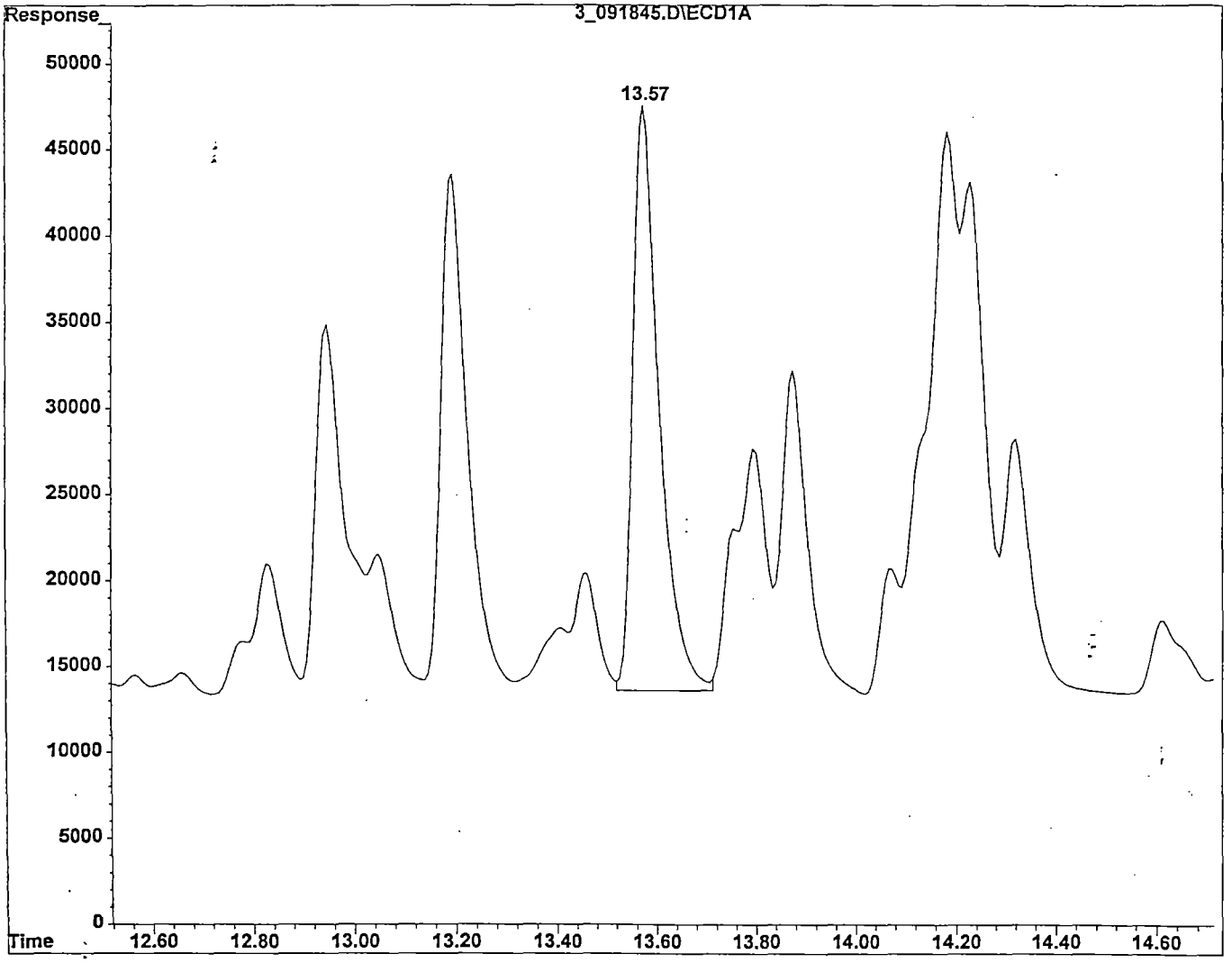
Aroclor-1016 {5} 11.17min area: 818228 m BTB 092001

Integration Time Range: 11.10 - 11.30

F:\HPCHEM\HP\3\DATA\09_18_01\3_091845.D
Report generated: Thu Sep 20 07:31:35 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_18_01\3_091845.D
Date Acquired: 19 Sep 2001 18:40
Inst: HP_03 Operator ID: BTB
Name: AR1660L33T
Misc: 5-210-7
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 7:29 2001 Quant Results File: XPCBI16.RES



ok 9-22-01

Aroclor-1260 {2} 13.57min area: 1244300 m

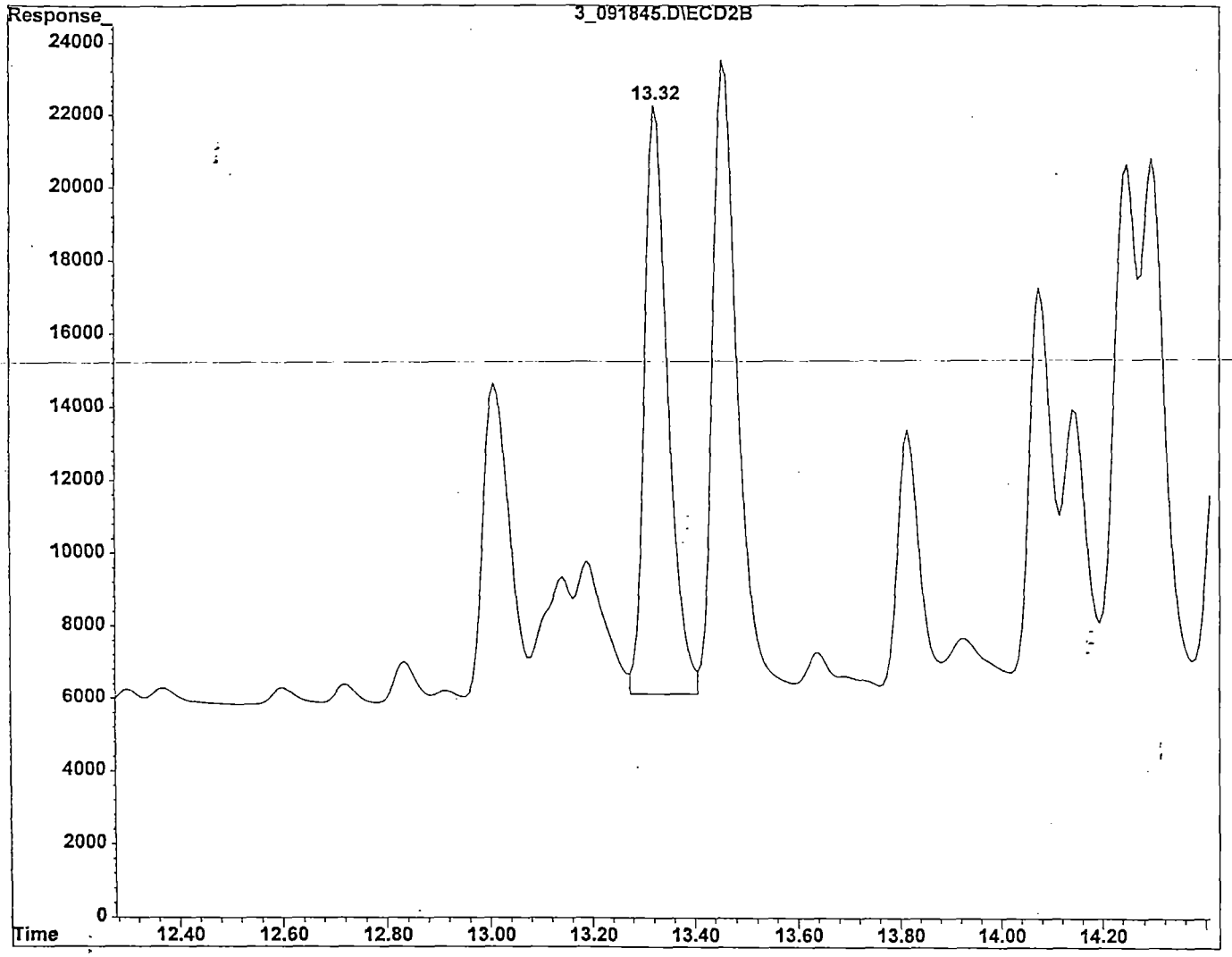
BTB 092001

Integration Time Range: 13.52 - 13.71

F:\HPCHEM\HP\3\DATA\09_18_01\3_091845.D
Report generated: Thu Sep 20 07:31:36 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_18_01\3_091845.D
Date Acquired: 19 Sep 2001 18:40
Inst: HP_03 Operator ID: BTB
Name: ARI660L33T
Misc: 5-210-7
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 7:29 2001 Quant Results File: XPCBI16.RES



GK 9-22-01

Aroclor-1260 #2 13.32min area: 512548 m

BTB 092001

Integration Time Range: 13.28 - 13.41

F:\HPCHEM\HP\3\DATA\09_18_01\3_091845.D
Report generated: Thu Sep 20 07:31:36 2001

Continuing Calibration Report HP_03

Method : F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 20 07:33:43 2001
Response via : Initial Calibration

Continuing Calibration File: 3_091858.D

OK 9-22-01

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	54.217	58.417	E3	-7.7	104
2	L1	Aroclor-1016	1.355	1.442	E3	-6.4	105
3	L1	Aroclor-1016 {2}	2.535	2.645	E3	-4.3	102
4	L1	Aroclor-1016 {3}	4.718	5.068	E3	-7.4	101
5	L1	Aroclor-1016 {4}	3.693	3.988	E3	-8.0	106
6	L1	Aroclor-1016 {5}	1.962	2.250	E3	-14.7	107
17	L7	Aroclor-1260	2.135	2.258	E3	-5.8	104
18	L7	Aroclor-1260 {2}	3.248	3.284	E3	-1.1	99
19	L7	Aroclor-1260 {3}	2.077	2.367	E3	-13.9	110
20	L7	Aroclor-1260 {4}	4.675	5.176	E3	-10.7	108
21	L7	Aroclor-1260 {5}	3.560	3.950	E3	-11.0	107 ✓
22	S	DCB	56.261	61.117	E3	-8.6	106

Signal #2
Continuing Calibration File: 3_091858.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	16.207	17.266	E3	-6.5	102
2	L1	Aroclor-1016	384.734	438.649		-14.0	108
3	L1	Aroclor-1016 {2}	885.369	974.333		-10.0	105
4	L1	Aroclor-1016 {3}	1.698	1.975	E3	-16.3#	108
5	L1	Aroclor-1016 {4}	789.988	917.419		-16.1#	108
6	L1	Aroclor-1016 {5}	521.940	593.059		-13.6	109
17	L7	Aroclor-1260	1.258	1.396	E3	-10.9	106
18	L7	Aroclor-1260 {2}	821.251	934.661		-13.8	110
19	L7	Aroclor-1260 {3}	1.080	1.236	E3	-14.5	113
20	L7	Aroclor-1260 {4}	1.107	1.244	E3	-12.4	109
21	L7	Aroclor-1260 {5}	780.367	933.998		-19.7#	117
22	S	DCB	24.505	28.263	E3	-15.3#	111

(#) = Out of Range SPCC's out = 0 CCC's out = 0

3_091858.D XPCBI16.M Thu Sep 20 07:33:51 2001

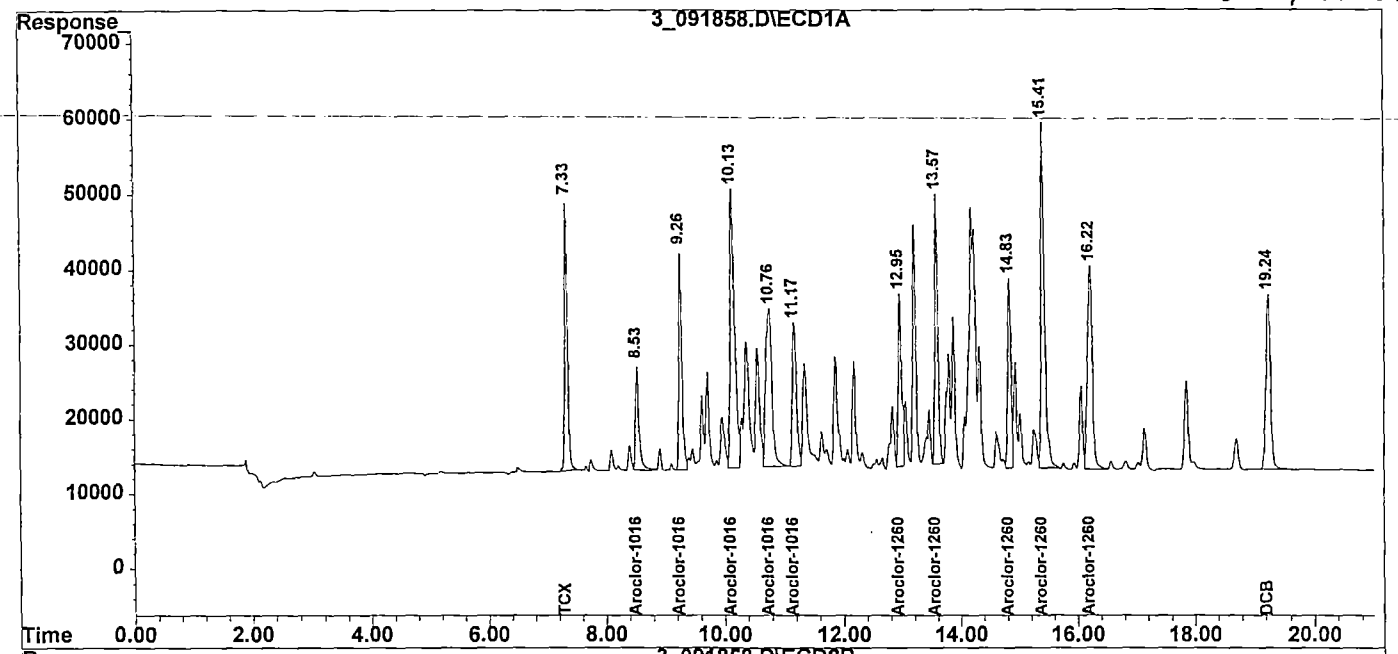
Chromatographic Report

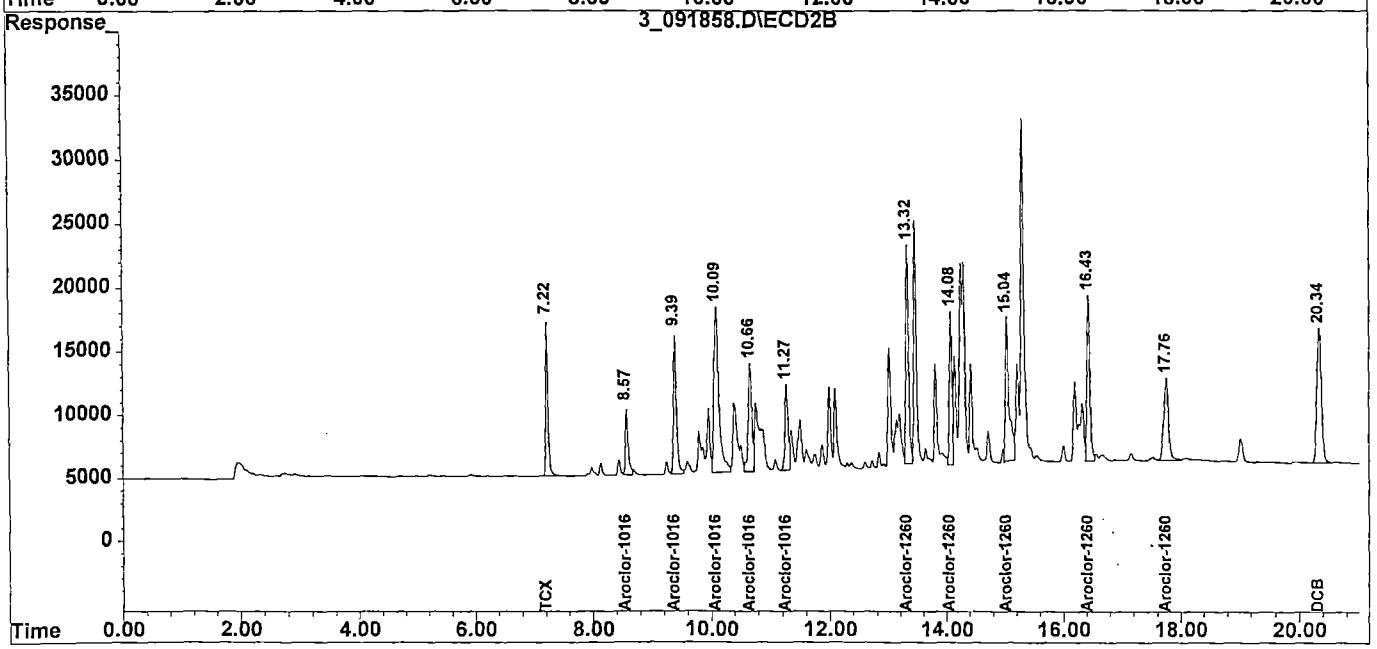
Signal #1 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091858.D\ECD1A.CH Vial: 30
Signal #2 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091858.D\ECD2B.CH
Acq On : 20 Sep 2001 00:13 Operator: BTB
Sample : AR1660L33V Inst : HP_03
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 7:33 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

OK 9-22-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091858.D\ECD1A.CH Vial: 30
Signal #2 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091858.D\ECD2B.CH
Acq On : 20 Sep 2001 00:13 Operator: BTB
Sample : AR1660L33V Inst : HP_03
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 7:33 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

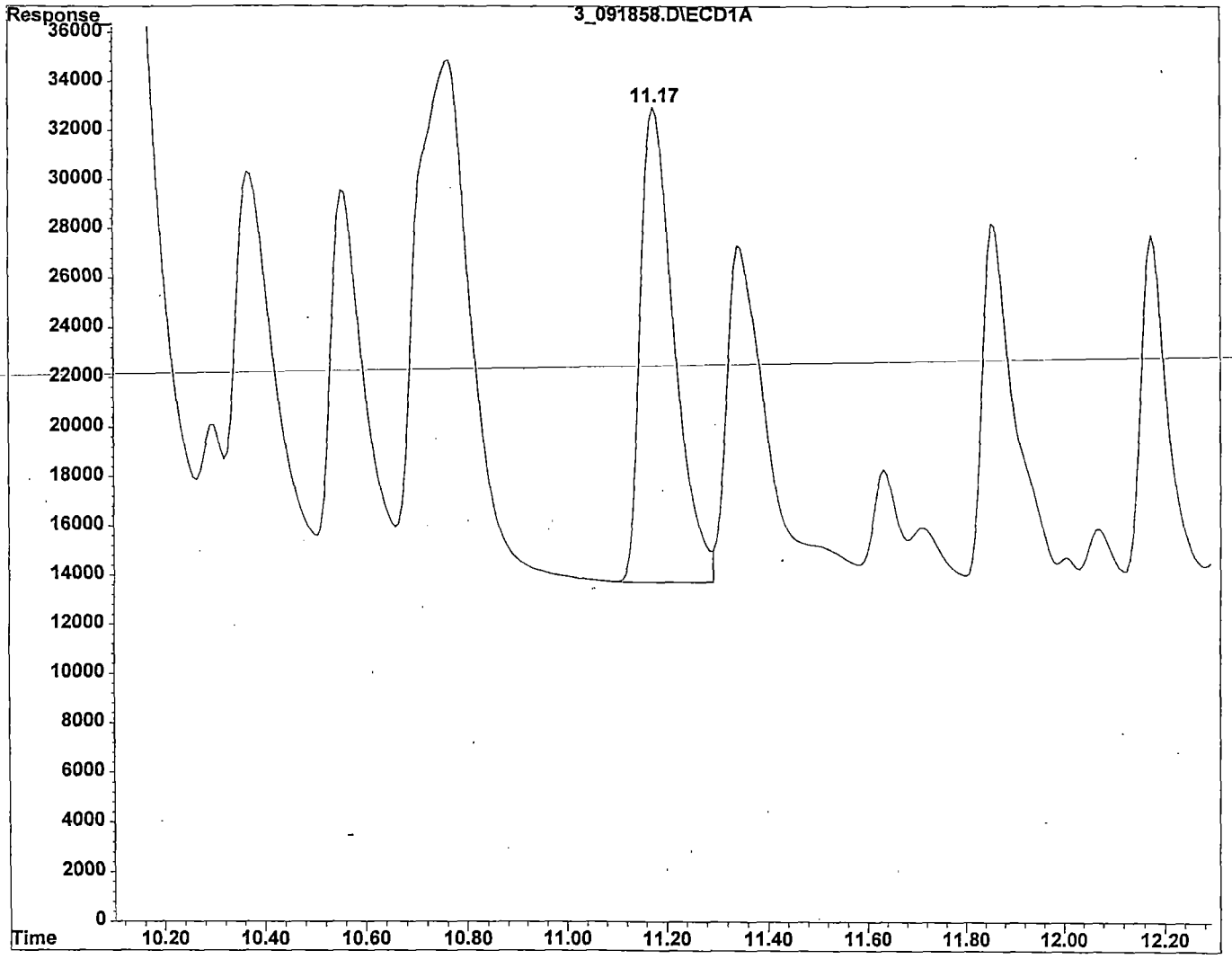
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	1168341	345319	21.5	21.3
22)	S DCB	19.24	20.34	1222340	565268	21.7	23.1
	Target Compounds:						
2)	L1 Aroclor-1016	8.53	8.57	576898	175460	425.6	456.1
3)	L1 Aroclor-1016 {2}	9.26	9.39	1057899	389733	417.3	440.2
4)	L1 Aroclor-1016 {3}	10.13	10.09	2027278	790196	429.7	465.3
5)	L1 Aroclor-1016 {4}	10.76	10.67	1595312	366967	432.0	464.5
6)	L1 Aroclor-1016 {5}	11.17	11.28	900104	237224	458.7m BTB 092001	454.5
	Sum Aroclor-1016			6157492	1959580	2163.3	2280.5
	Average Aroclor-1016					432.664	456.110
17)	L7 Aroclor-1260	12.95	13.33	903361	558436	423.0	443.8m BTB 092001
18)	L7 Aroclor-1260 {2}	13.57	14.08	1313524	373864	404.4m	455.2
19)	L7 Aroclor-1260 {3}	14.83	15.04	946707	494518	455.7	458.0
20)	L7 Aroclor-1260 {4}	15.41	16.44	2070201	497701	442.8	449.6
21)	L7 Aroclor-1260 {5}	16.22	17.76	1579998	373599	443.9	478.7
	Sum Aroclor-1260			6813792	2298119	2169.8	2285.4
	Average Aroclor-1260					433.969	457.085

(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\3\DATA\09_18_01\3_091858.D
Date Acquired: 20 Sep 2001 00:13
Inst: HP_03 Operator ID: BTB
Name: AR1660L33V
Misc: 5-210-7
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 7:33 2001 Quant Results File: XPCBI16.RES



OK 9-22-01

Aroclor-1016 {5} 11.17min area: 900104 m

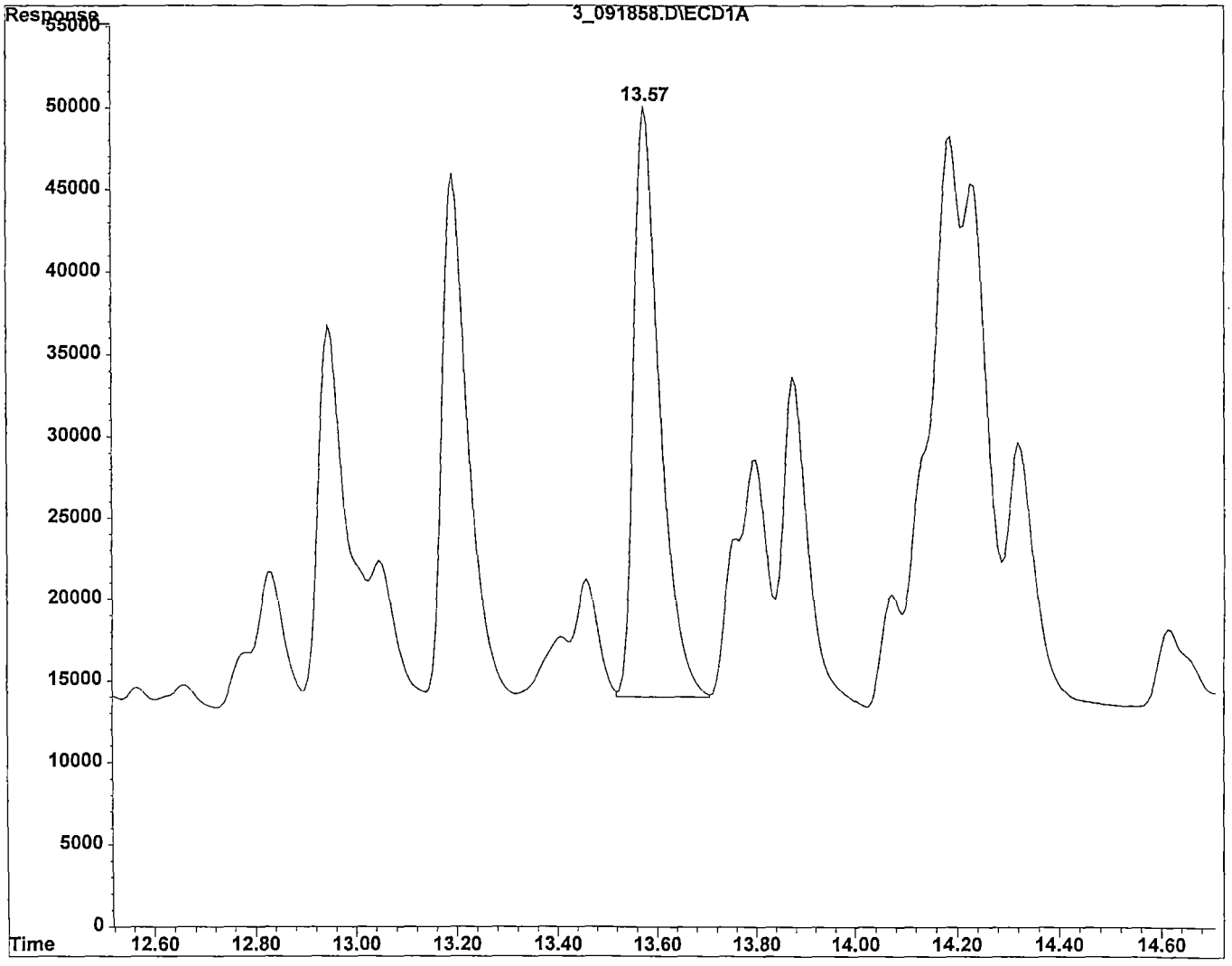
BTB 092001

Integration Time Range: 11.10 - 11.29

F:\HPCHEM\HP\3\DATA\09_18_01\3_091858.D
Report generated: Thu Sep 20 07:35:47 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_18_01\3_091858.D
Date Acquired: 20 Sep 2001 00:13
Inst: HP_03 Operator ID: BTB
Name: AR1660L33V
Misc: 5-210-7
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 7:33 2001 Quant Results File: XPCBI16.RES



OK 9-22-01

Aroclor-1260 {2} 13.57min area: 1313524 m

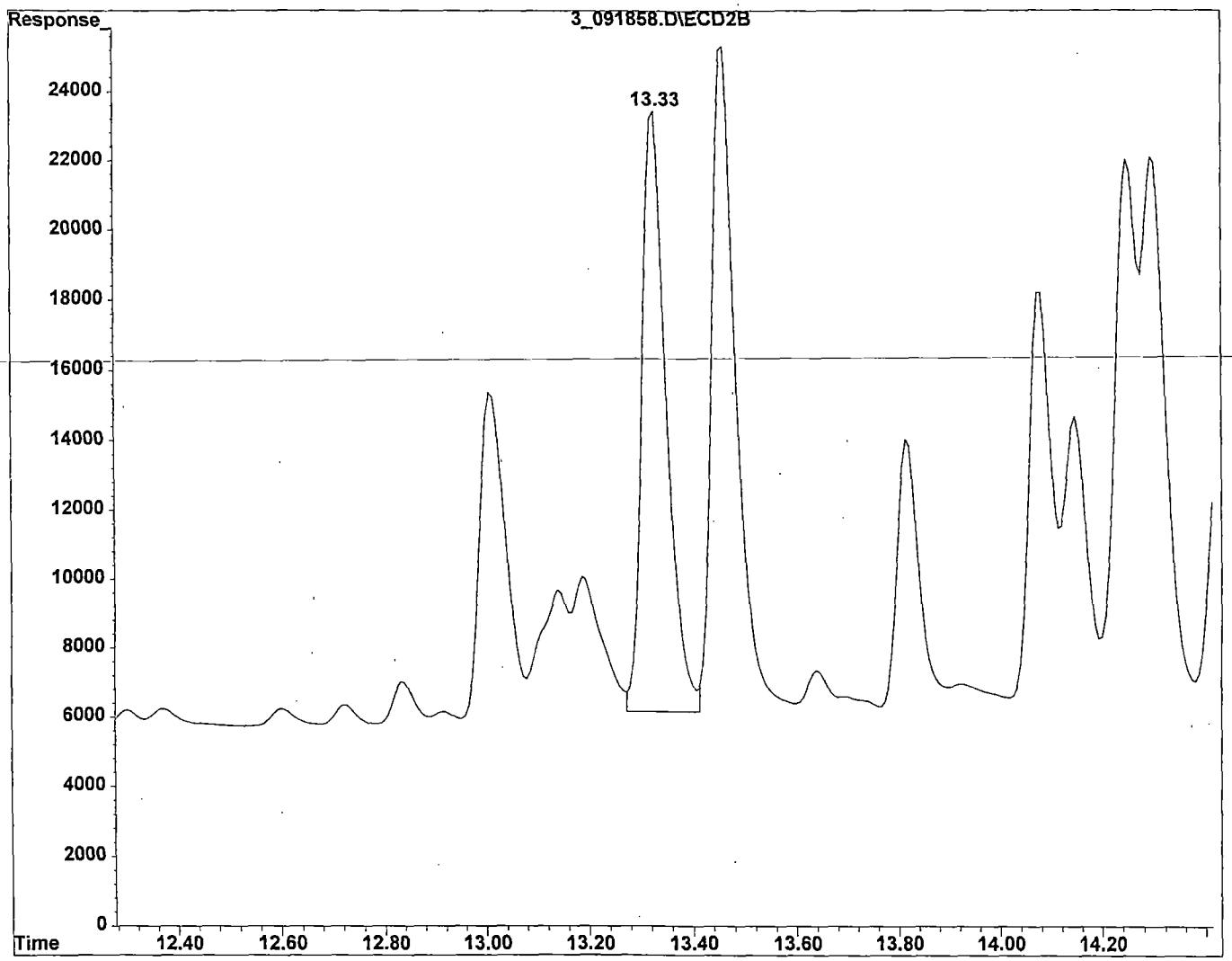
BTB 09/20/01

Integration Time Range: 13.52 - 13.71

F:\HPCHEM\HP\3\DATA\09_18_01\3_091858.D
Report generated: Thu Sep 20 07:35:48 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_18_01\3_091858.D
Date Acquired: 20 Sep 2001 00:13
Inst: HP_03 Operator ID: BTB
Name: AR1660L33V
Misc: 5-210-7
Method: F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 7:33 2001 Quant Results File: XPCBI16.RES



OK 9-22-01

Aroclor-1260 #2 13.33min area: 558436 m

BTB 09/2001

Integration Time Range: 13.28 - 13.41

F:\HPCHEM\HP\3\DATA\09_18_01\3_091858.D
Report generated: Thu Sep 20 07:35:48 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PBLKSB

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Matrix: (soil/water) SOIL Lab Sample ID: BL0823SB

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

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/23/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/17/01

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	

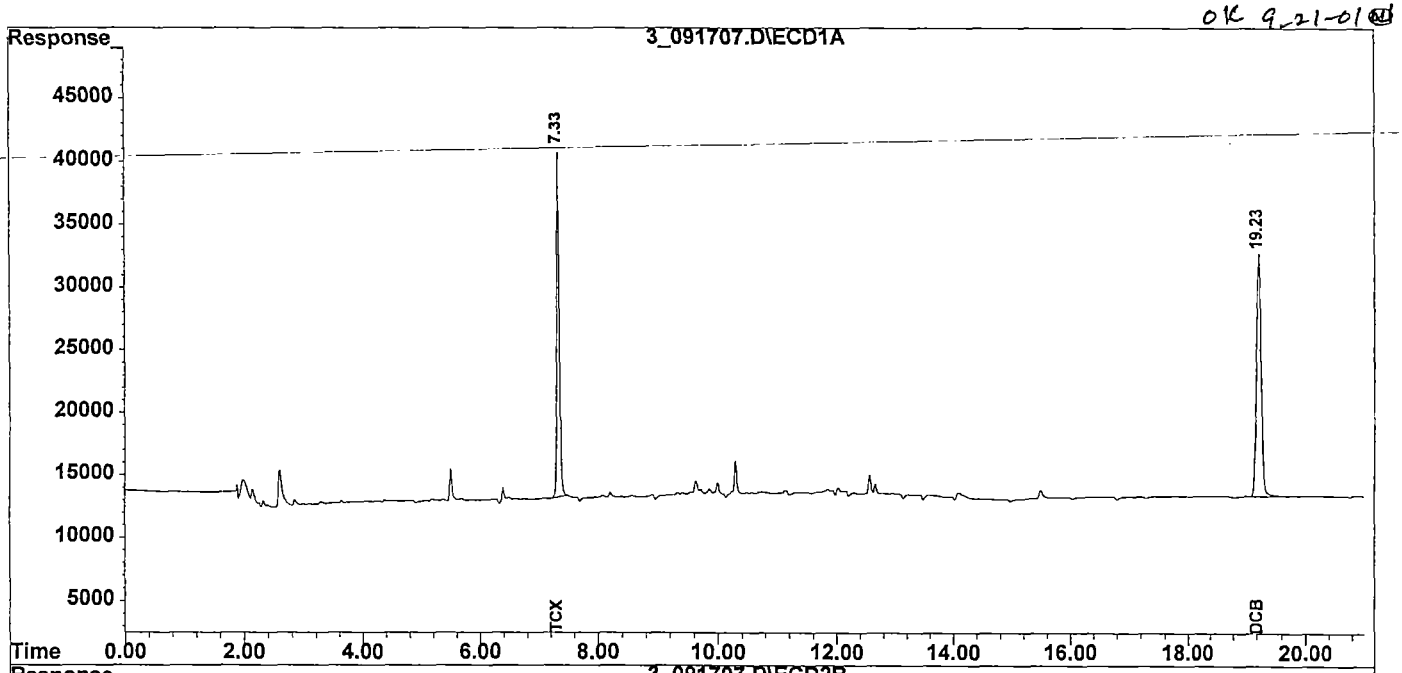
Chromatographic Report

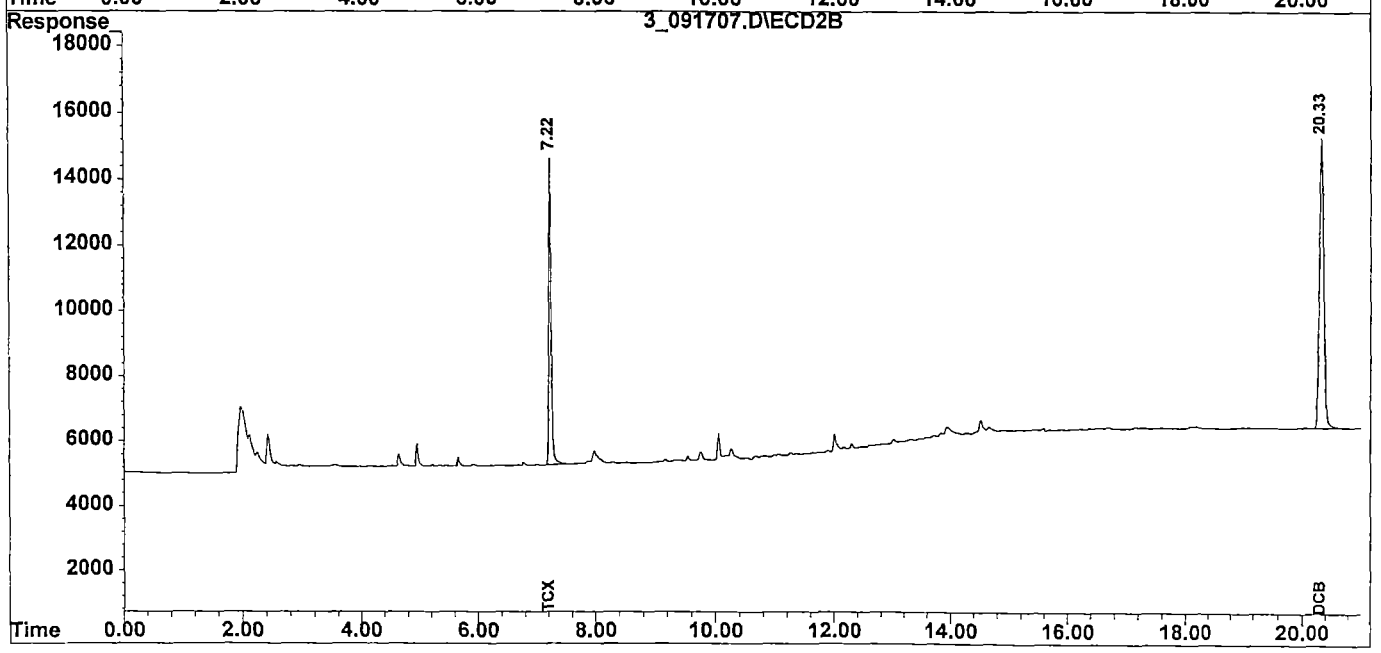
Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091707.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091707.D\ECD2B.CH
Acq On : 17 Sep 2001 19:36 Operator: BTB
Sample : BL0823SB *PBLKSB * Inst : HP_03
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 10:21 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

OK 9-21-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091707.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091707.D\ECD2B.CH
Acq On : 17 Sep 2001 19:36 Operator: BTB
Sample : BL0823SB *PBLKSB * Inst : HP_03
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 10:21 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	849224	260521	5.221	5.358
	Spiked Amount 6.667			Recovery	=	78.32%	80.37%
22)	S DCB	19.23	20.34	1003968	465919	5.948	6.338
	Spiked Amount 6.667			Recovery	=	89.22%	95.07%

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.

PIBLK3E

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

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: 09/16/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK3E

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

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: 09/16/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

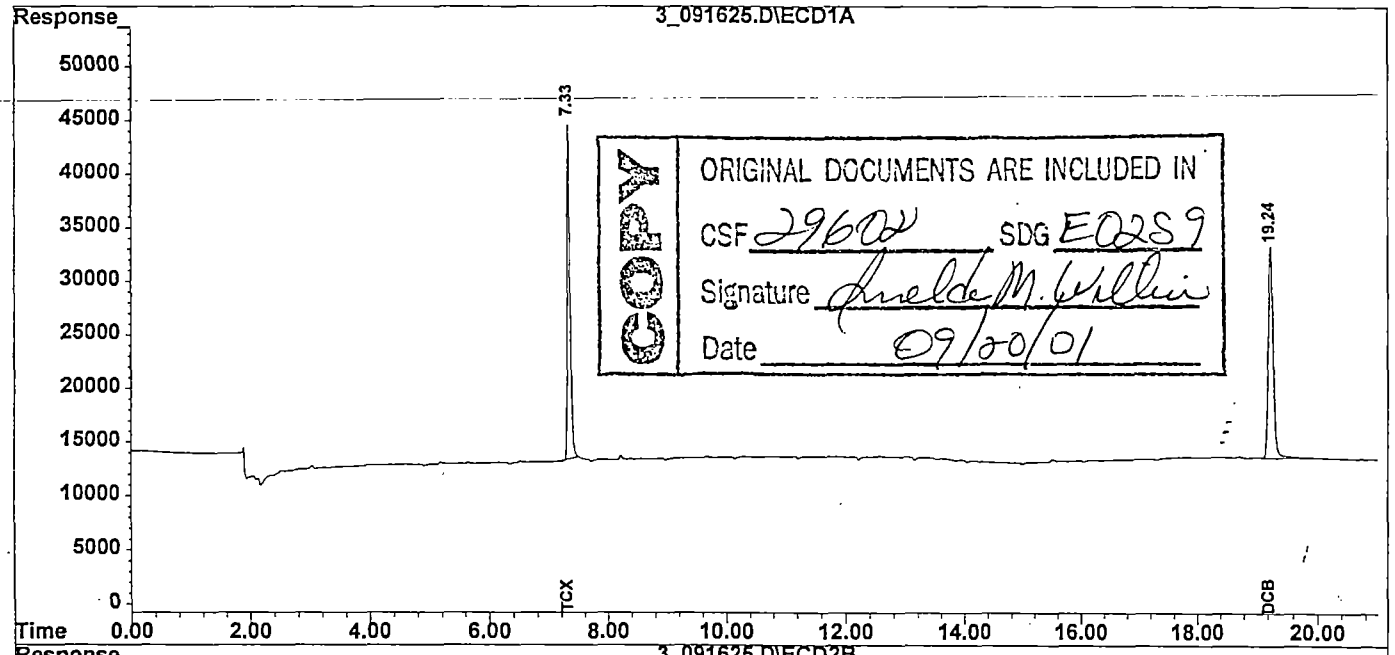
FORM I PCB

Chromatographic Report

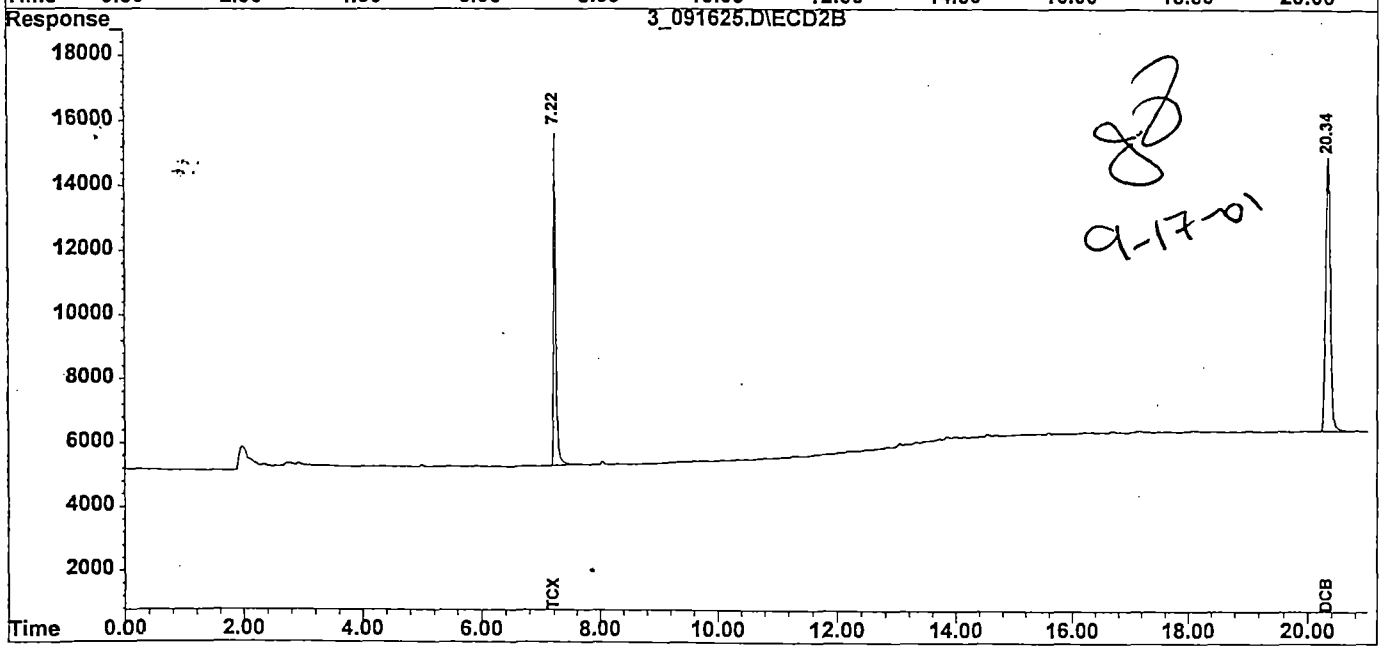
Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091625.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091625.D\ECD2B.CH
Acq On : 16 Sep 2001 21:10 Operator: DDC
Sample : PIBLK3E Inst : HP_03
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 12:05 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B



ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 2960 SDG E02S9
Signature Arnelda M. Willis
Date 09/20/01



9-17-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091625.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\3\DATA\09_16_01\3_091625.D\ECD2B.CH
Acq On : 16 Sep 2001 21:10 Operator: DDC
Sample : PIBLK3E Inst : HP_03
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 12:05 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_16_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	1016125	304880	18.7	18.8
22)	S DCB	19.24	20.34	1073125	463612	19.1	18.9

Target Compounds:

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK3F

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

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: 09/17/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK3F

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

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: 09/17/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

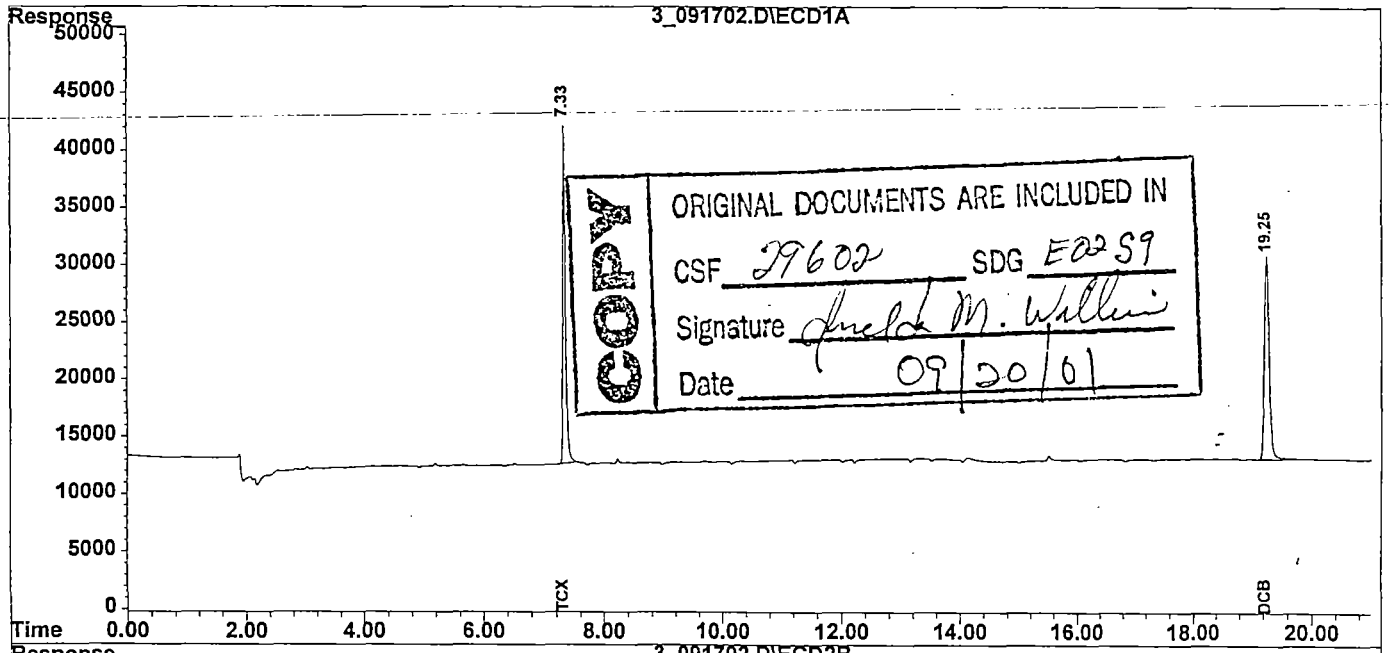
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Chromatographic Report

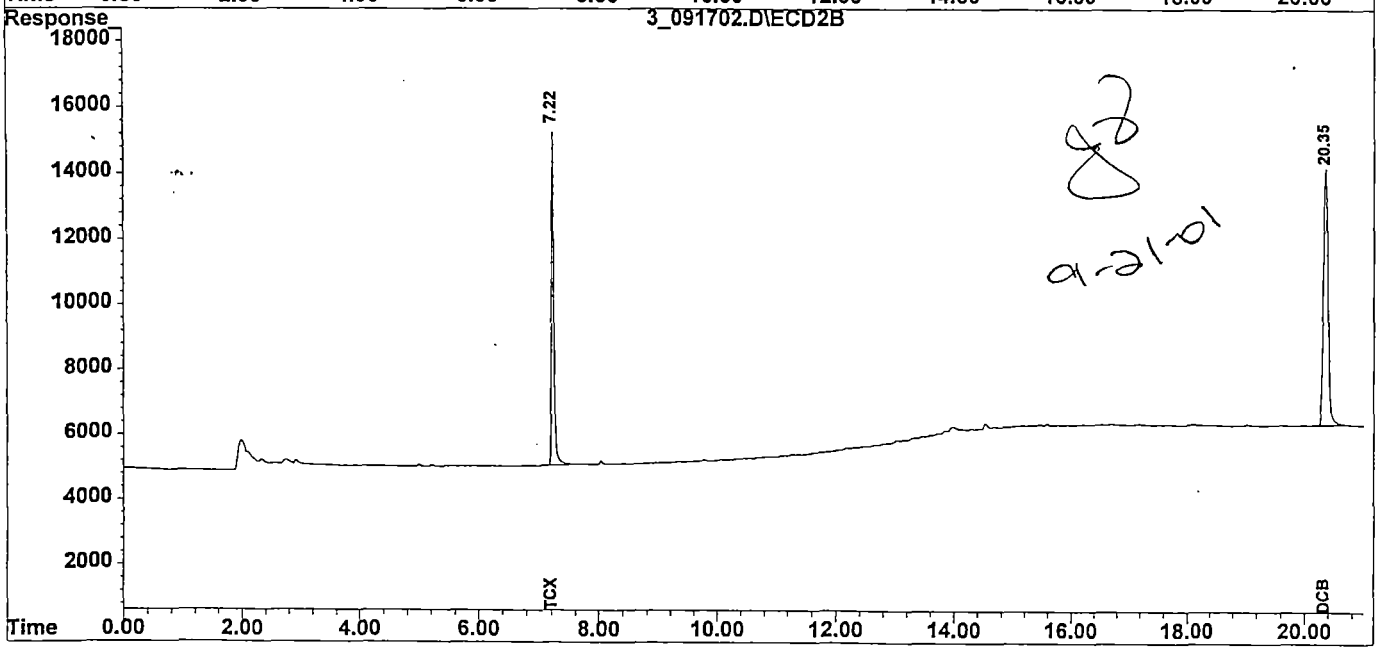
Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091702.D\ECD1A.CH Vial: 2
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091702.D\ECD2B.CH
Acq On : 17 Sep 2001 17:27 Operator: BTB
Sample : PIBLK3F Inst : HP_03
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 18 9:06 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B



ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29602 SDG E0259
Signature Angela M. Williams
Date 09/20/01



9-21-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091702.D\ECD1A.CH Vial: 2
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091702.D\ECD2B.CH
Acq On : 17 Sep 2001 17:27 Operator: BTB
Sample : PIBLK3F Inst : HP_03
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 18 9:06 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_07_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.34	7.23	939828	290425	17.3	17.9
22)	S DCB	19.26	20.36	951670	432878	16.9	17.7
	Target Compounds:						

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK3G

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

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: 09/18/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK3G

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

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: 09/18/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

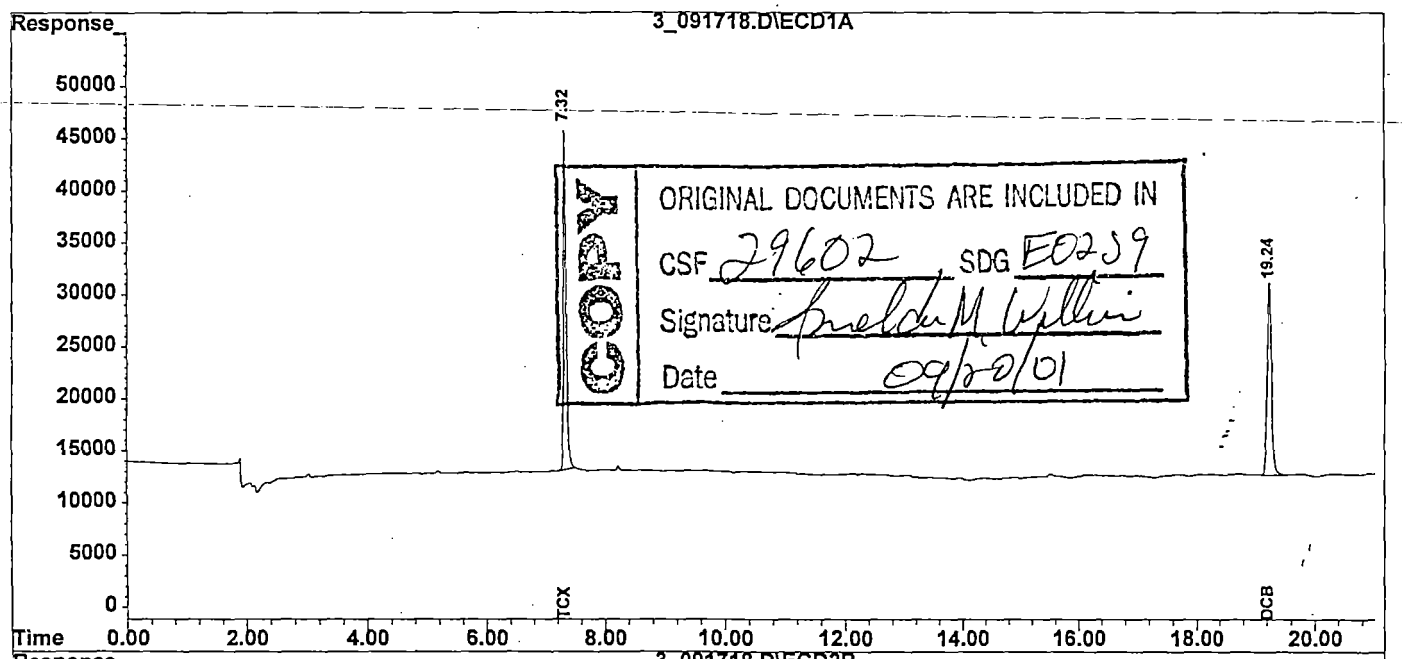
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Chromatographic Report

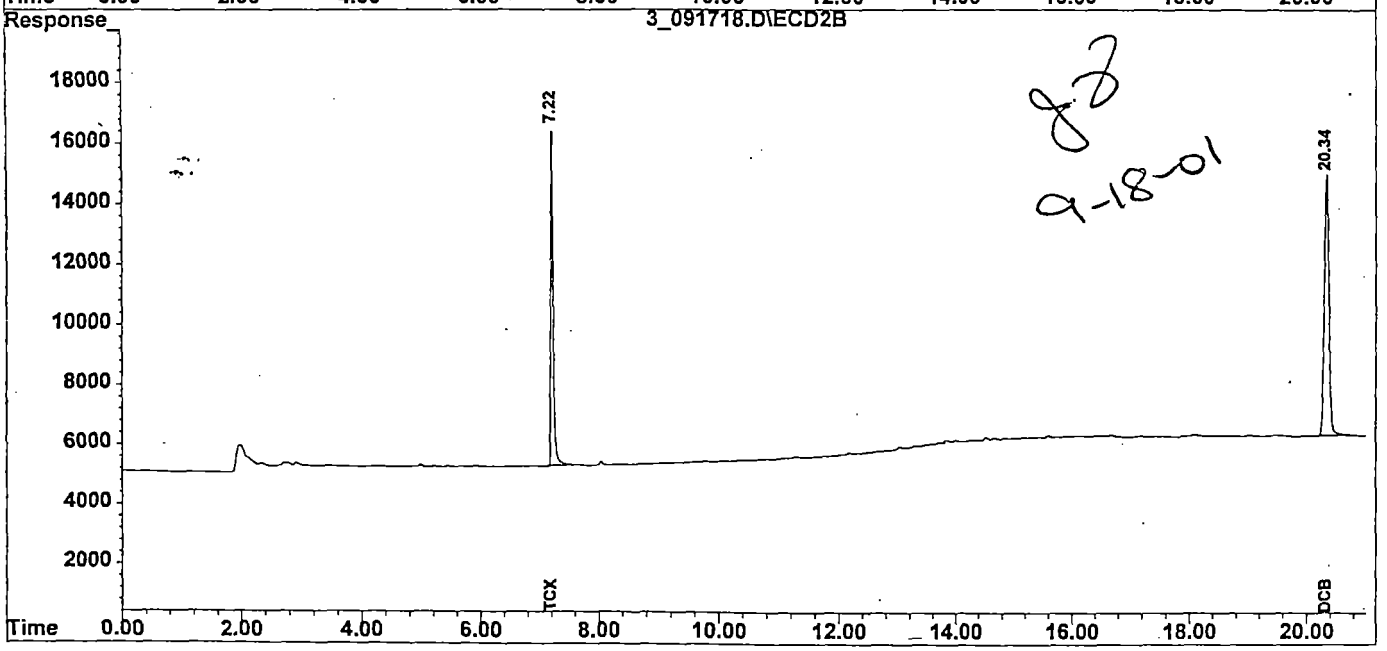
Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091718.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091718.D\ECD2B.CH
Acq On : 18 Sep 2001 00:18 Operator: BTB
Sample : PIBLK3G Inst : HP_03
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 18 9:10 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B



ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29602 SDG E0259
Signature Sheldon M. Williams
Date 09/20/01



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9-18-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091718.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091718.D\ECD2B.CH
Acq On : 18 Sep 2001 00:18 Operator: BTB
Sample : PIBLK3G Inst : HP_03
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 18 9:10 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	1020648	316114	18.8	19.5
22)	S DCB	19.24	20.34	976437	471058	17.4	19.2
	Target Compounds:						

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK3H

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

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: 09/18/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK3H

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

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: 09/18/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

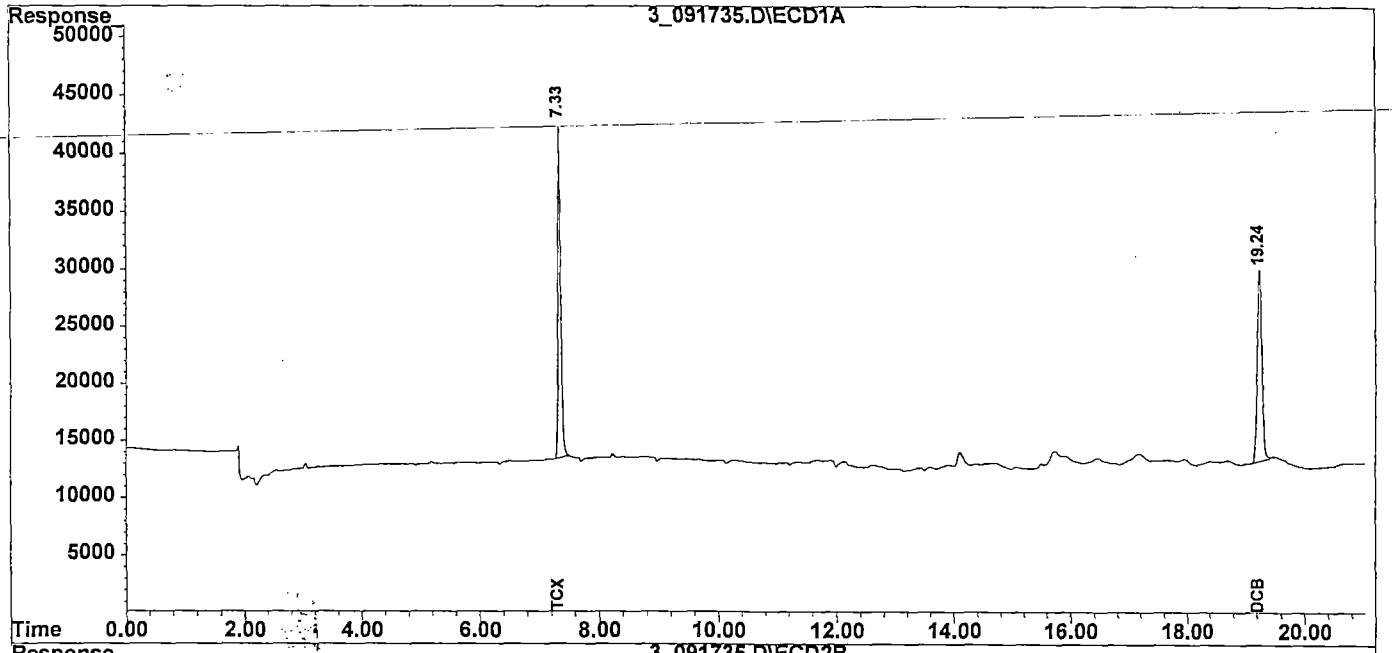
FORM I PCB

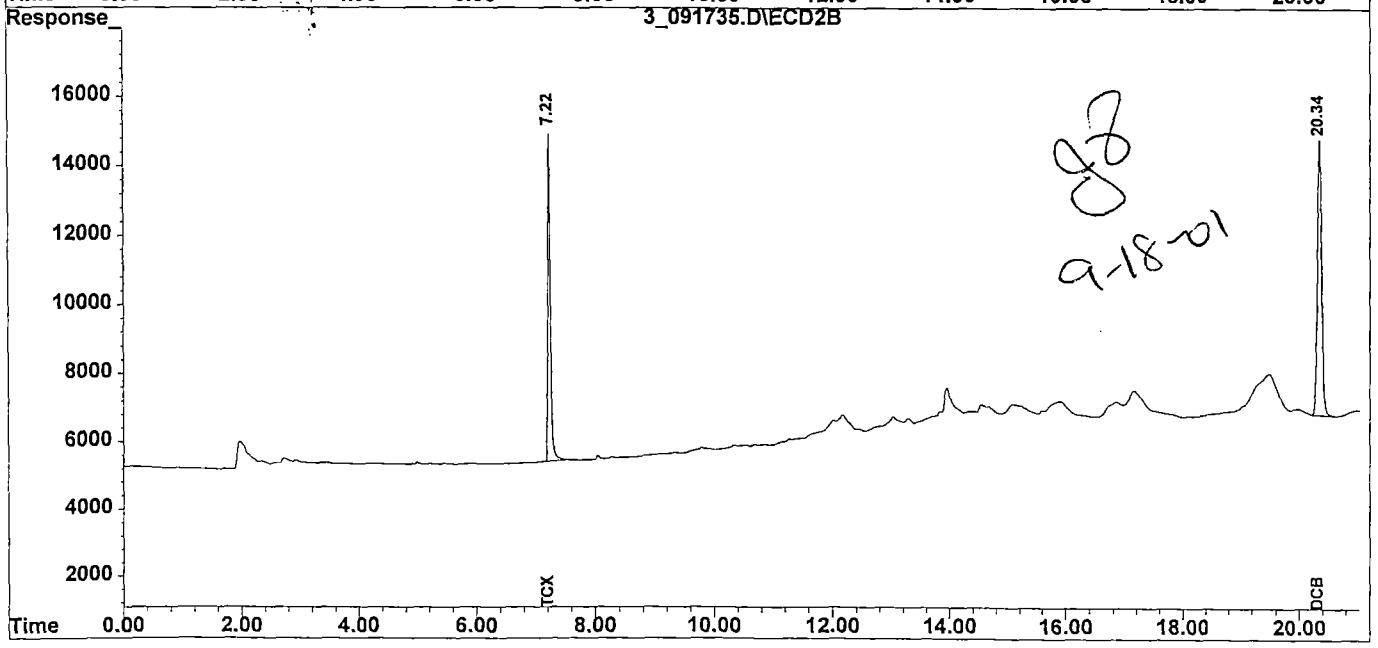
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091735.D\ECD1A.CH Vial: 35
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091735.D\ECD2B.CH
Acq On : 18 Sep 2001 7:34 Operator: BTB
Sample : PIBLK3H Inst : HP_03
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 18 9:15 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





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9-18-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091735.D\ECD1A.CH Vial: 35
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091735.D\ECD2B.CH
Acq On : 18 Sep 2001 7:34 Operator: BTB
Sample : PIBLK3H Inst : HP_03
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 18 9:15 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

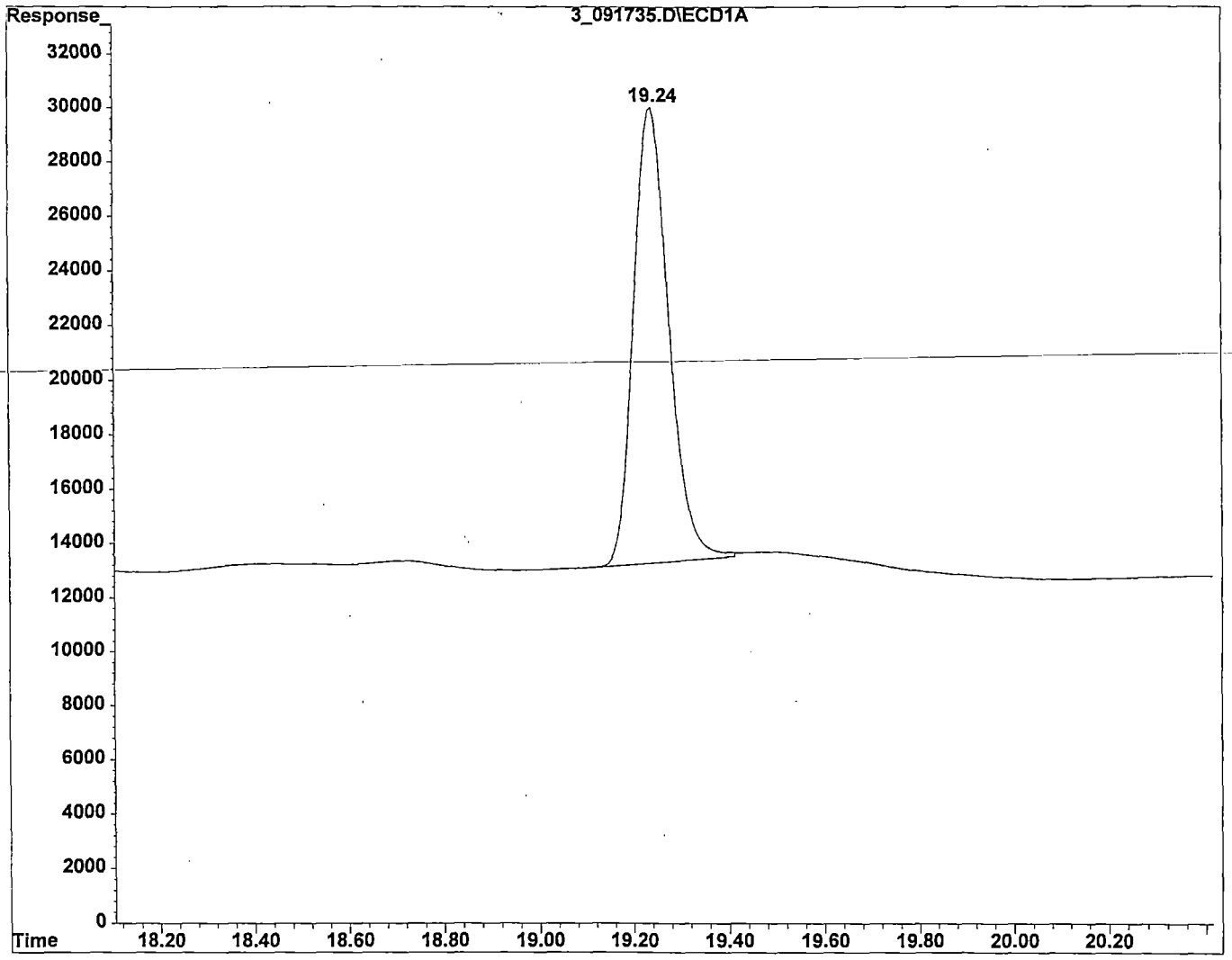
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	920746	279470	17.0	17.2
22)	S DCB	19.24	20.34	861605	415114	15.3m	16.9
	Target Compounds:						

BTB 091801

(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\3\DATA\09_17_01\3_091735.D
Date Acquired: 18 Sep 2001 7:34
Inst: HP_03 Operator ID: BTB
Name: PIBLK3H
Misc: 5-131-7
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 18 9:15 2001 Quant Results File: XPCBI16.RES



DCB 19.24min area: 861605 m BTB091801

Integration Time Range: 19.11 - 19.41

F:\HPCHEM\HP\3\DATA\09_17_01\3_091735.D
Report generated: Tue Sep 18 09:16:12 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK3I

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

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: 09/18/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK3I

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

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: 09/18/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

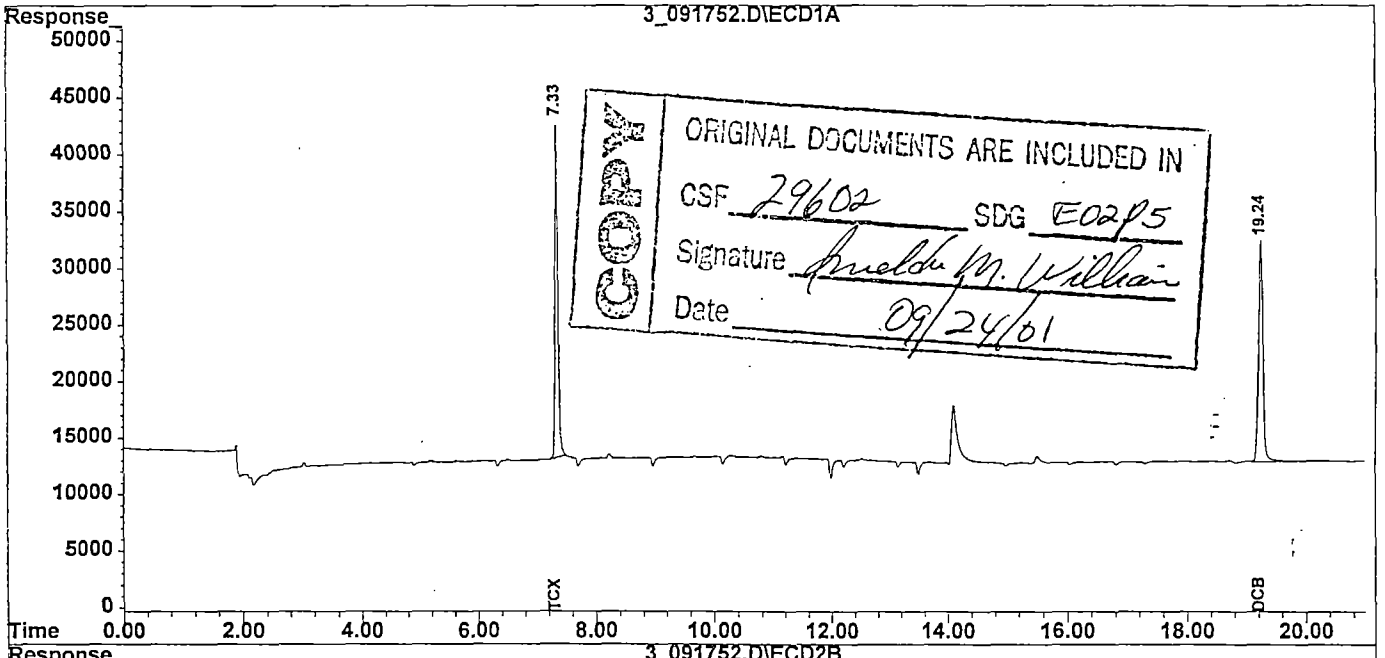
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Chromatographic Report

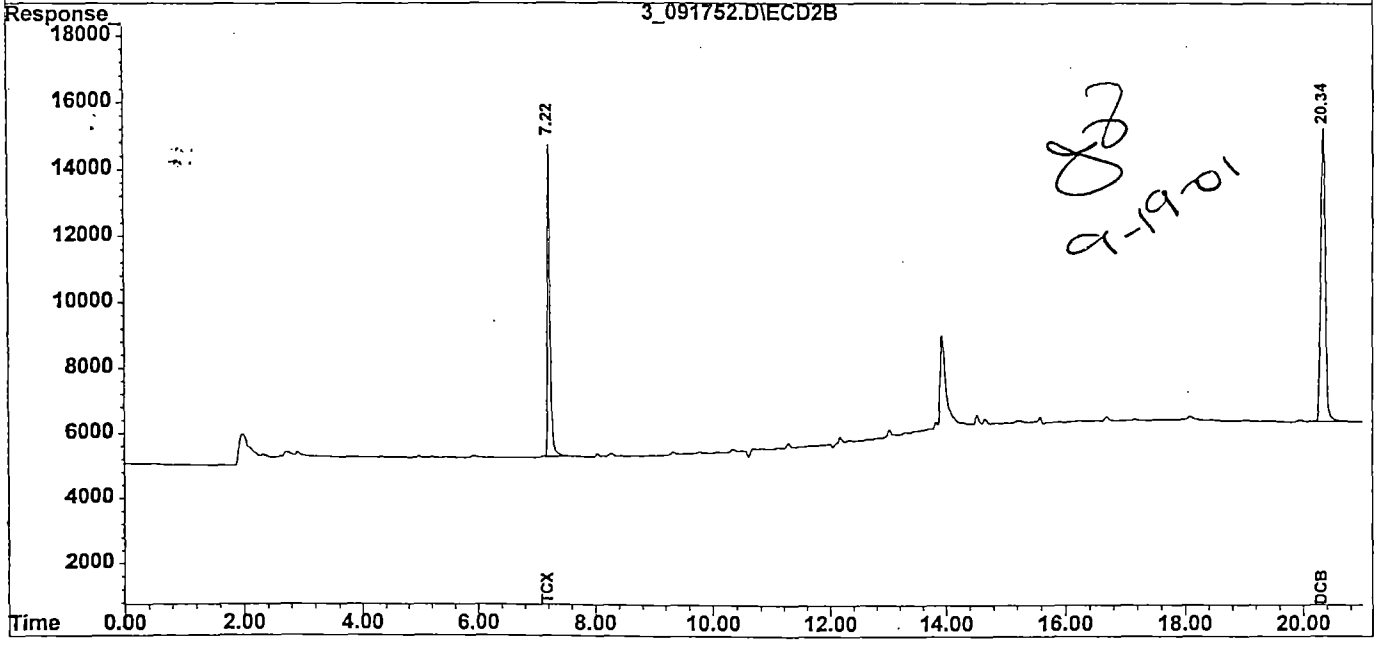
Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091752.D\ECD1A.CH Vial: 52
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091752.D\ECD2B.CH
Acq On : 18 Sep 2001 14:50 Operator: BTB
Sample : PIBLK3I Inst : HP_03
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 18 17:07 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B



COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29602 SDG E02P5
Signature Arnelda M. William
Date 09/24/01



8 9-19-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091752.D\ECD1A.CH Vial: 52
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091752.D\ECD2B.CH
Acq On : 18 Sep 2001 14:50 Operator: BTB
Sample : PIBLK3I Inst : HP_03
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 18 17:07 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	983375	290398	18.1	17.9
22)	S DCB	19.24	20.34	1067706	476486	19.0	19.4

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.

PIBLK3M

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

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: 09/19/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK3M

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

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: 09/19/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

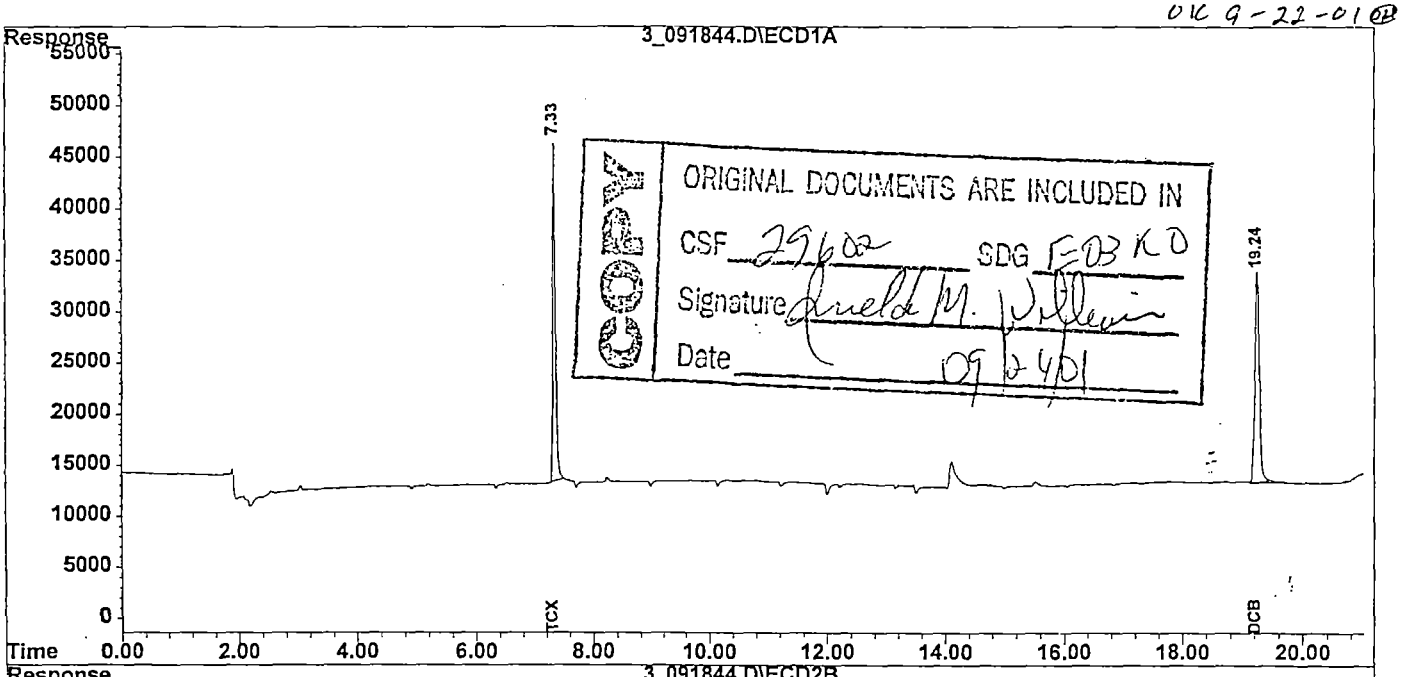
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091844.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091844.D\ECD2B.CH
Acq On : 19 Sep 2001 18:14 Operator: BTB
Sample : PIBLK3M Inst : HP_03
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 7:28 2001 Quant Results File: XPCBI16.RES

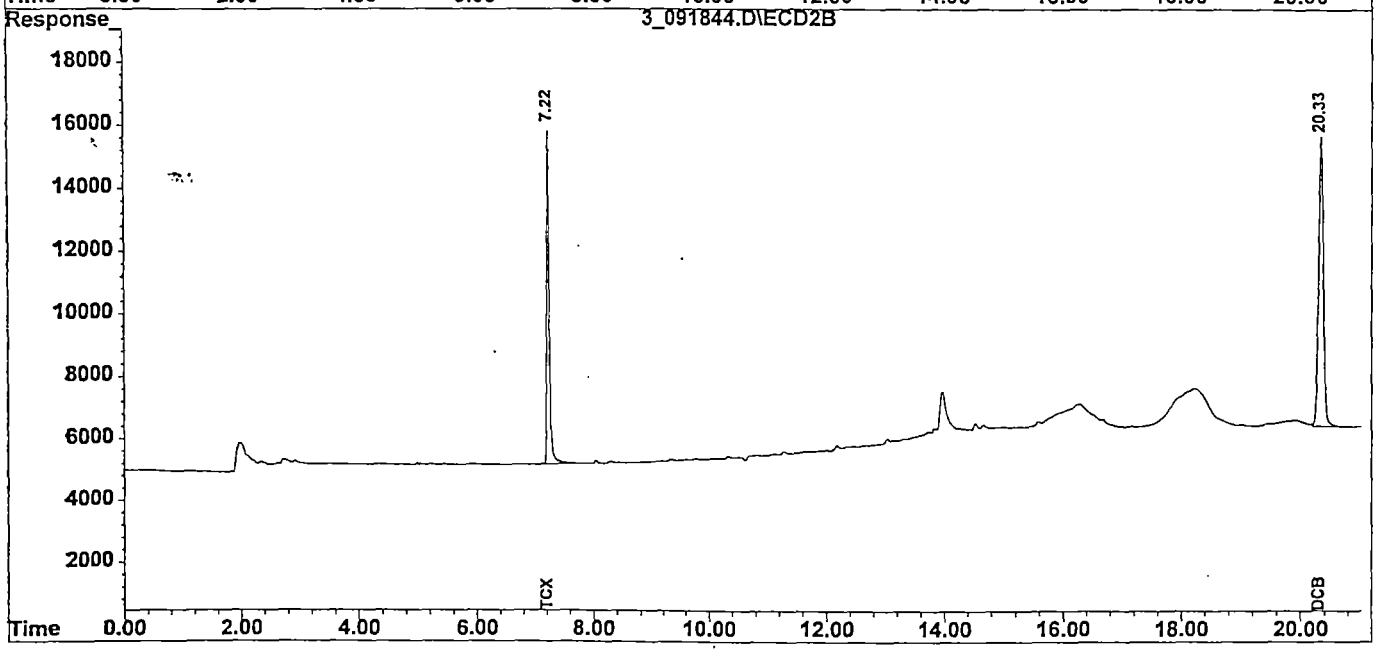
Method : F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

OK 9-22-01



ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29602 SDG F-03 KD
Signature Arnold M. Williams
Date 09/24/01



Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091844.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091844.D\ECD2B.CH
Acq On : 19 Sep 2001 18:14 Operator: BTB
Sample : PIBLK3M Inst : HP_03
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 7:28 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds:							
1) S	TCX	7.33	7.22	1073709	316729	19.8	19.5
22) S	DCB	19.24	20.34	1121742	491173	19.9	20.0

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.

PIBLK3N

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

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: 09/19/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK3N

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

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: 09/19/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

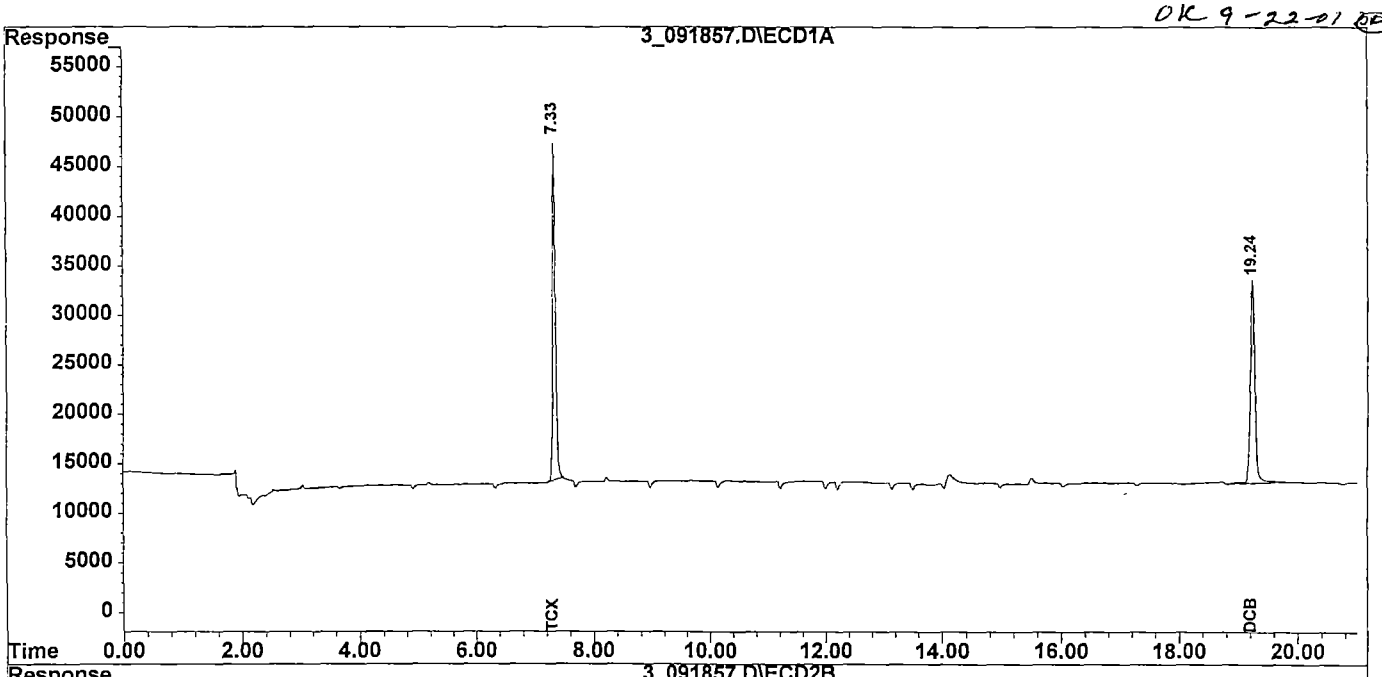
Chromatographic Report

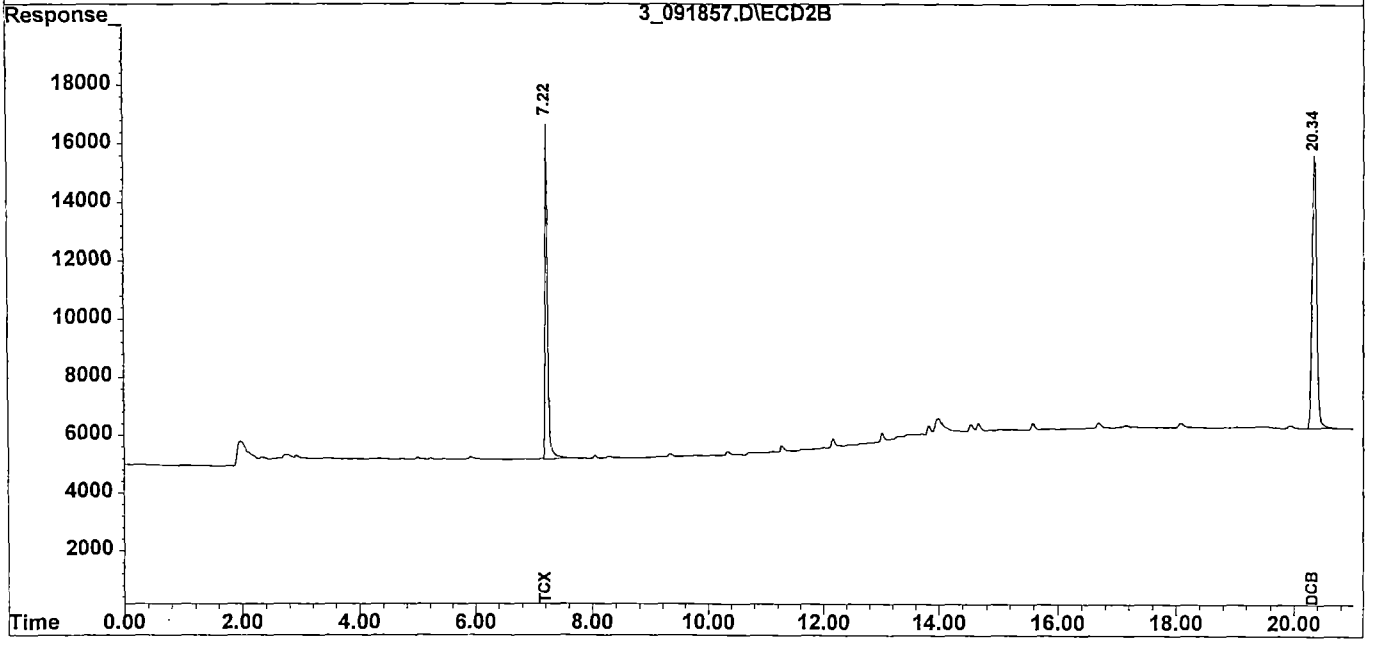
Signal #1 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091857.D\ECD1A.CH Vial: 29
Signal #2 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091857.D\ECD2B.CH
Acq On : 19 Sep 2001 23:47 Operator: BTB
Sample : PIBLK3N ✓ Inst : HP_03
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 7:32 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

OK 9-22-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091857.D\ECD1A.CH Vial: 29
Signal #2 : F:\HPCHEM\HP\3\DATA\09_18_01\3_091857.D\ECD2B.CH
Acq On : 19 Sep 2001 23:47 Operator: BTB
Sample : PIBLK3N Inst : HP_03
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 7:32 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_18_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	1111083	340690	20.5	21.0
22)	S DCB	19.24	20.34	1167356	508147	20.7	20.7
	Target Compounds:						

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ELCS1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Matrix: (soil/water) SOIL Lab Sample ID: LC0823SB

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

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/23/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/17/01

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	100	
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

FORM I PCB

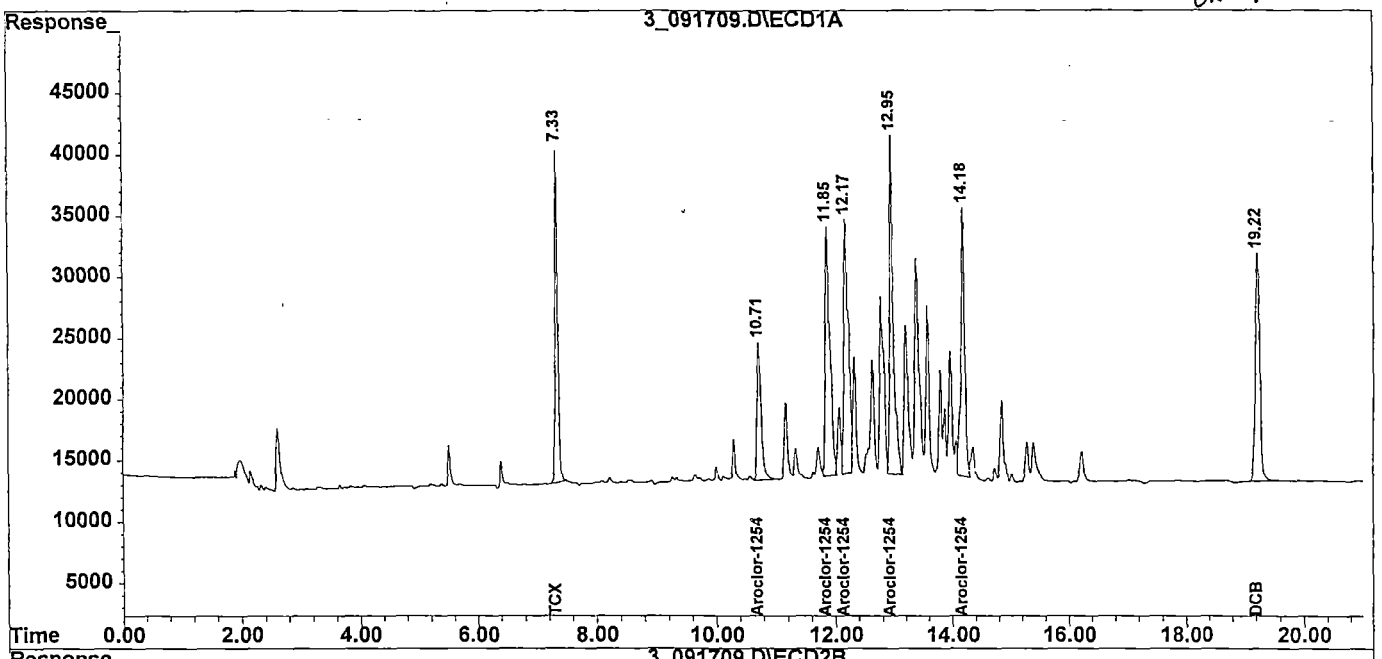
Chromatographic Report

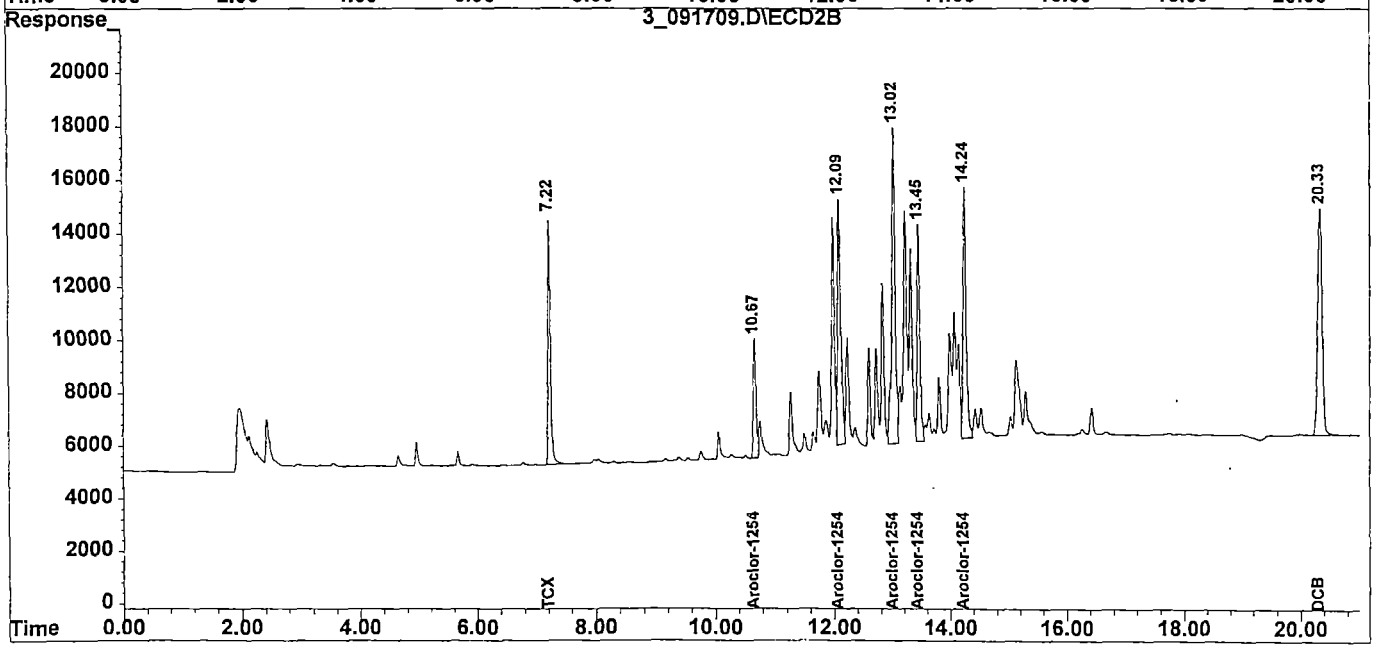
Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091709.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091709.D\ECD2B.CH
Acq On : 17 Sep 2001 20:27 Operator: BTB
Sample : LC0823SB✓ *ELCS1✓ * Inst : HP_03
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 10:22 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

OK 9-21-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091709.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091709.D\ECD2B.CH
Acq On : 17 Sep 2001 20:27 Operator: BTB
Sample : LC0823SB *ELCS1 * Inst : HP_03
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 10:22 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	858322	263929	5.277	5.428
	Spiked Amount 6.667			Recovery	=	79.16%	81.42%
22)	S DCB	19.23	20.33	965777	445759	5.722	6.063
	Spiked Amount 6.667			Recovery	=	✓85.83%	✓90.95%
	Target Compounds:						
12)	L6 Aroclor-1254	10.71	10.67	569306	148161	93.8	101.3
13)	L6 Aroclor-1254 {2}	11.86	12.09	1146273	358959	102.0	109.0
14)	L6 Aroclor-1254 {3}	12.17	13.03	1090559	479423	106.1	108.7
15)	L6 Aroclor-1254 {4}	12.95	13.45	1213350	266734	102.5	109.5
16)	L6 Aroclor-1254 {5}	14.18	14.25	1002704	362104	104.5	111.1
	Sum Aroclor-1254			5022192	1615381	508.9	539.6
	Average Aroclor-1254					101.784	107.928
						76%	81%

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ELCS2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Matrix: (soil/water) SOIL Lab Sample ID: LD0823SB

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

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/23/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/17/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	110	
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

FORM I PCB

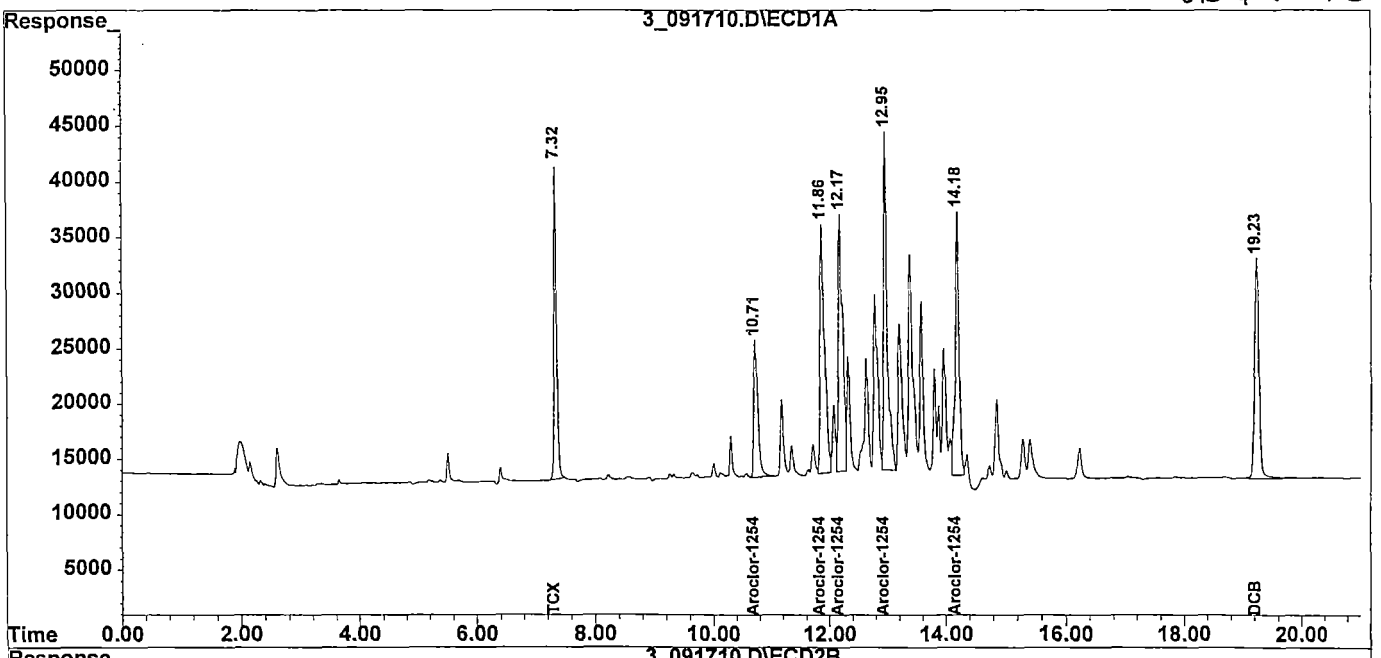
Chromatographic Report

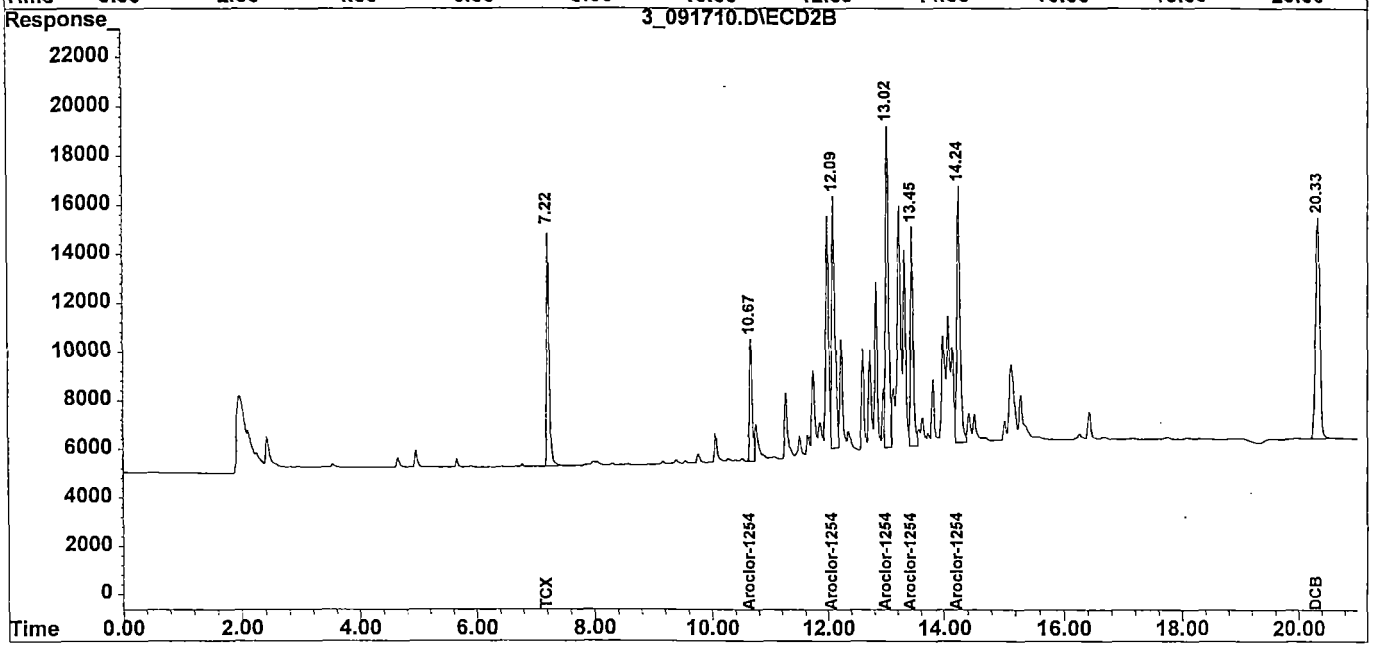
Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091710.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091710.D\ECD2B.CH
Acq On : 17 Sep 2001 20:53 Operator: BTB
Sample : LD0823SB / *ELCS2 / * Inst : HP_03
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 10:26 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

OK 9-21-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091710.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091710.D\ECD2B.CH
Acq On : 17 Sep 2001 20:53 Operator: BTB
Sample : LD0823SB *ELCS2 * Inst : HP_03
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 10:26 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

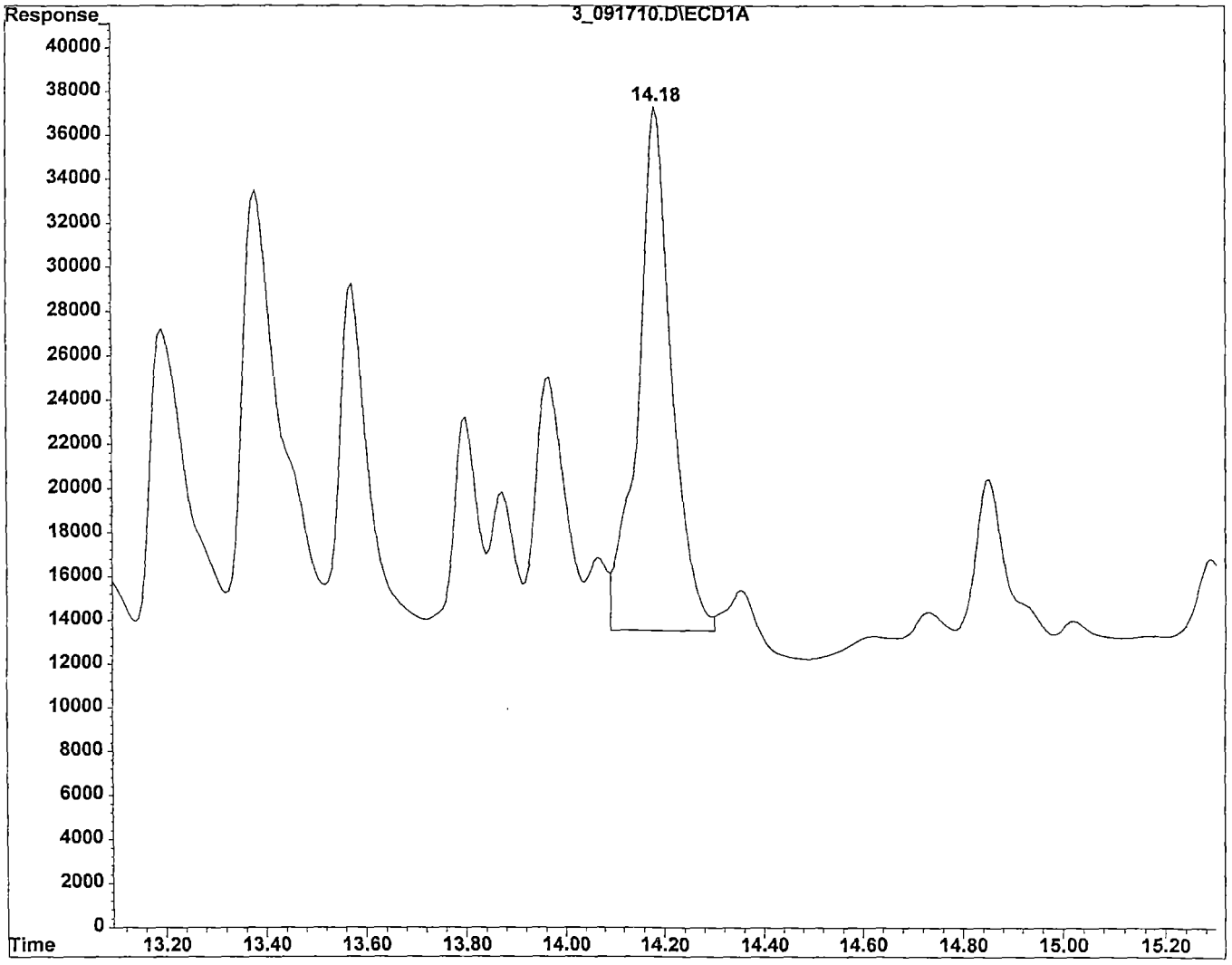
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	915221	284549	5.627	5.852
	Spiked Amount 6.667			Recovery	=	84.41%	87.78%
22)	S DCB	19.23	20.33	1063028	478432	6.298	6.508
	Spiked Amount 6.667			Recovery	=	94.47%	97.62%
	Target Compounds:						
12)	L6 Aroclor-1254	10.72	10.67	622663	161316	102.6	110.3
13)	L6 Aroclor-1254 {2}	11.86	12.09	1256987	395733	111.8	120.2
14)	L6 Aroclor-1254 {3}	12.17	13.02	1208442	478191	117.6	108.4
15)	L6 Aroclor-1254 {4}	12.95	13.46	1319741	294719	111.4	121.0
16)	L6 Aroclor-1254 {5}	14.18	14.25	1096720	399116	114.3m BTB 09190	122.4
	Sum Aroclor-1254			5504554	1729075	557.8	582.4
Average Aroclor-1254						111.564	116.474
						84%	88%

(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\3\DATA\09_17_01\3_091710.D
Date Acquired: 17 Sep 2001 20:53
Inst: HP_03 Operator ID: BTB
Name: LD0823SB *ELCS2 *
Misc: **30G/5.0ML*0
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:26 2001 Quant Results File: XPCBI16.RES



OK 9-21-01

Aroclor-1254 {5} 14.18min area: 1096720 m BTB 091901

Integration Time Range: 14.09 - 14.30

F:\HPCHEM\HP\3\DATA\09_17_01\3_091710.D
Report generated: Wed Sep 19 11:23:08 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E03C9MS

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Matrix: (soil/water) SOIL Lab Sample ID: 47348.02MS

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

% Moisture: 40 decanted: (Y/N) __ Date Received: 08/20/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/23/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/18/01

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	55	U
11104-28-2	Aroclor-1221	55	U
11141-16-5	Aroclor-1232	55	U
53469-21-9	Aroclor-1242	1300	EP
12672-29-6	Aroclor-1248	55	U
11097-69-1	Aroclor-1254	1600	E
11096-82-5	Aroclor-1260	570	E
Surrogate amount spiked		11.08	

FORM I PCB

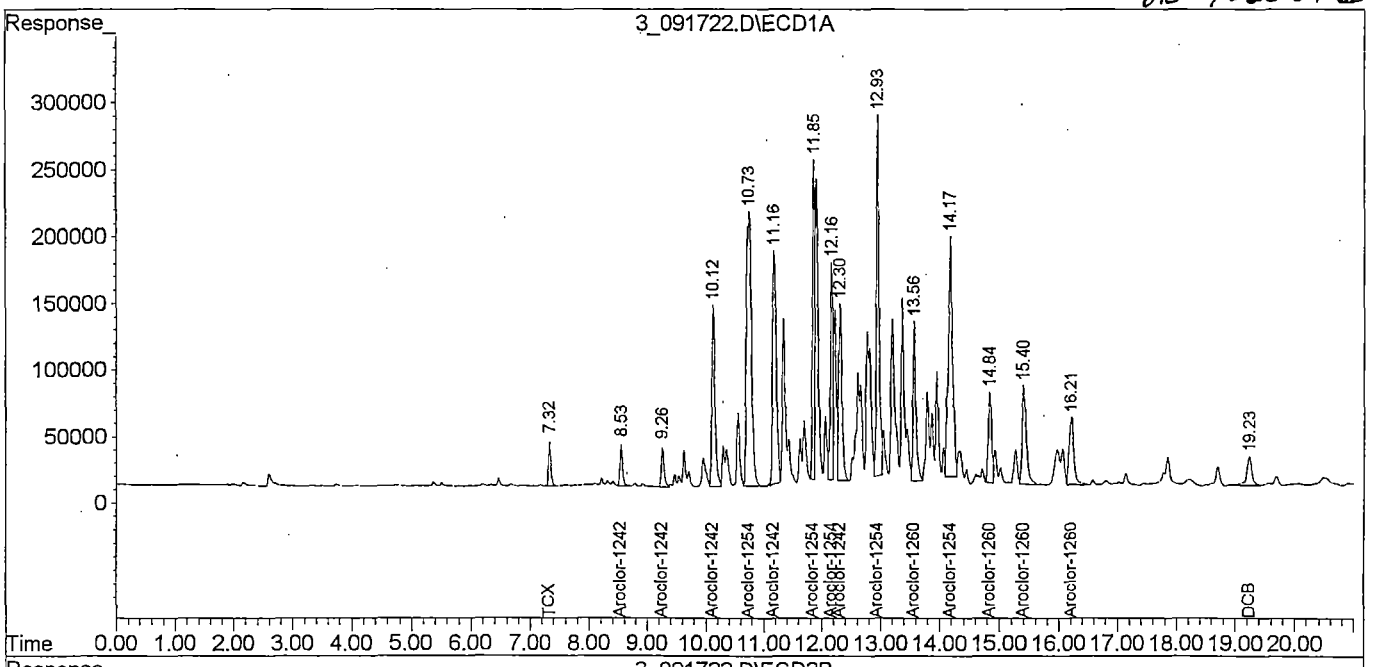
Chromatographic Report

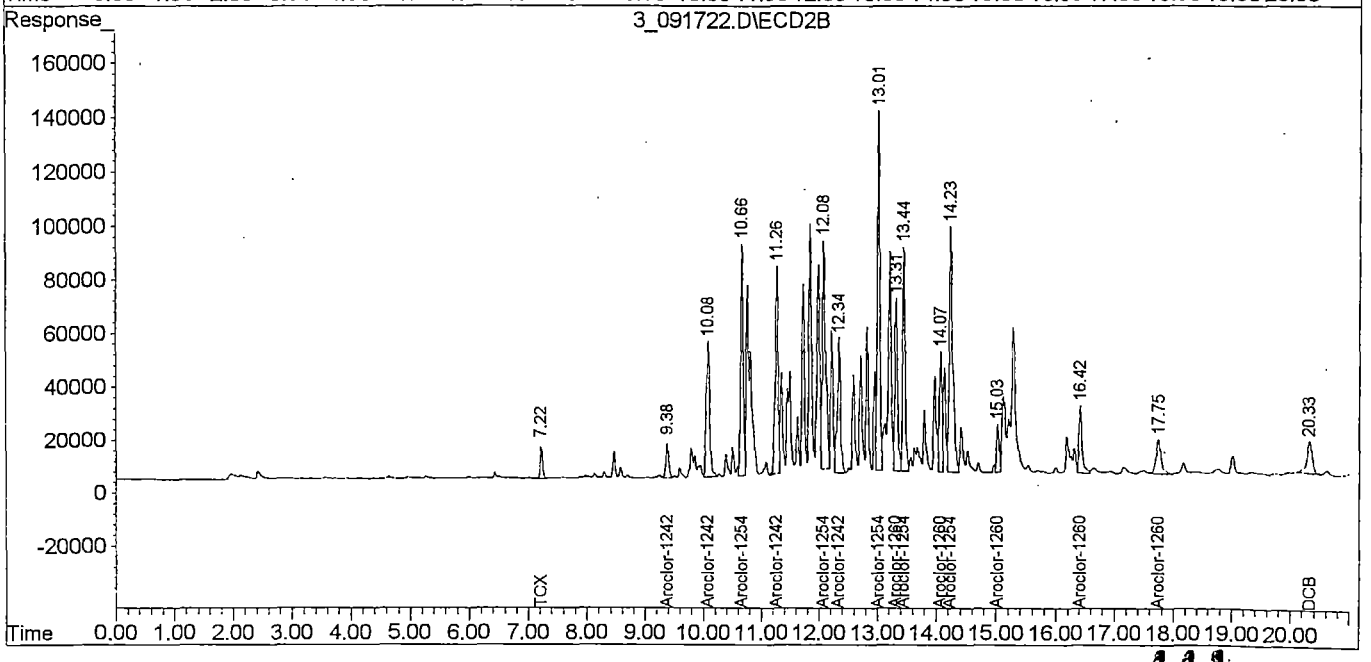
Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091722.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091722.D\ECD2B.CH
Acq On : 18 Sep 2001 2:01 Operator: BTB
Sample : 47348.02MS *E03C9MS * Inst : HP_03
Misc : *EPA*30.1G/5.0ML*40 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 24 15:47 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

GK 9-25-01





444

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091722.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091722.D\ECD2B.CH
Acq On : 18 Sep 2001 2:01 Operator: BTB
Sample : 47348.02MS *E03C9MS * Inst : HP_03
Misc : *EPA*30.1G/5.0ML*40 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 24 15:47 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

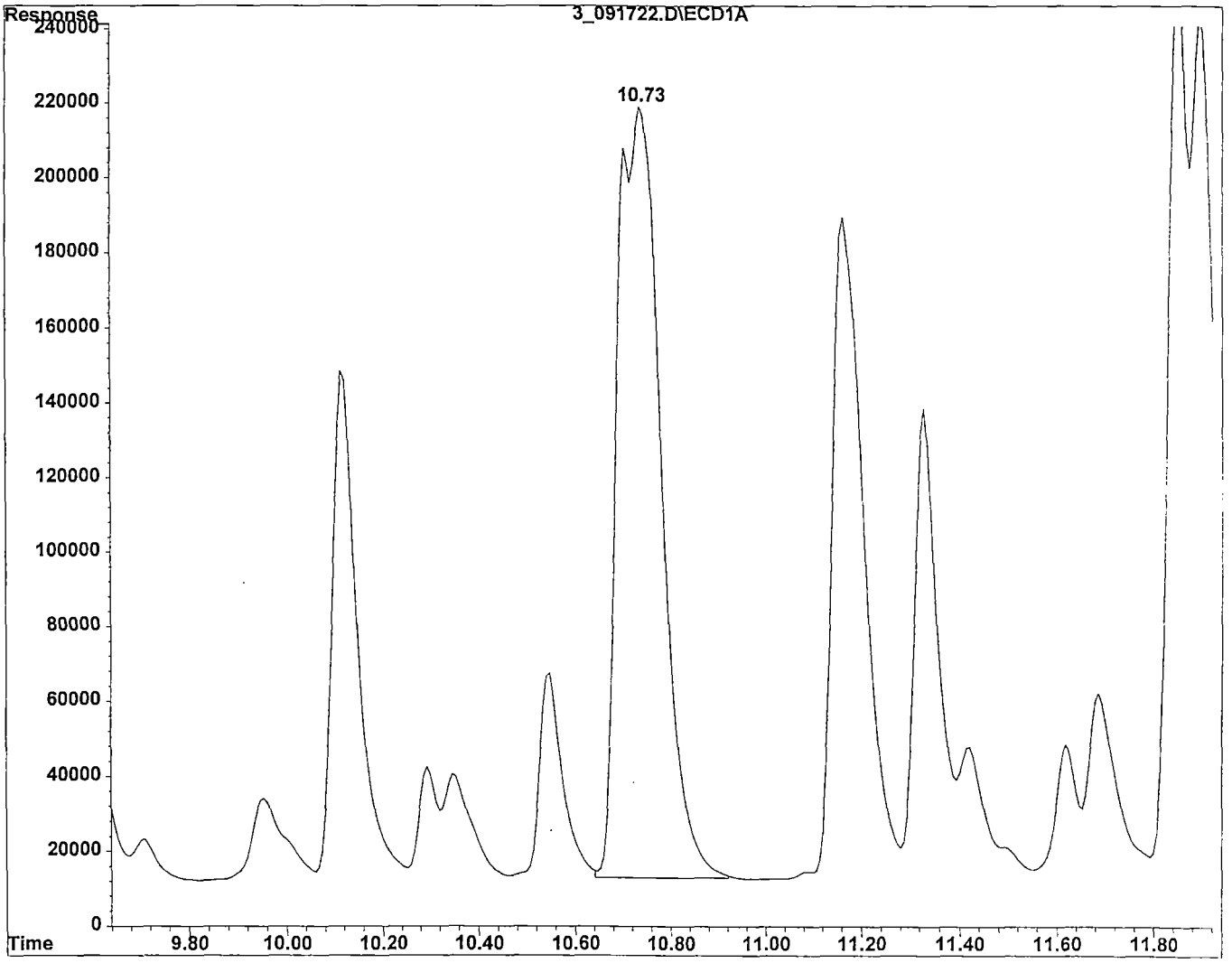
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	1005731	311619	10.3	10.6
	Spiked Amount 11.074			Recovery	=	93.01%	95.72%
22)	S DCB	19.23	20.32	1420242	761692	14.0	17.2m BTB 092401
	Spiked Amount 11.074			Recovery	=	✓126.42%	✓155.32%
	Target Compounds:						
7)	L4 Aroclor-1242	8.54	0.00	984106	0	481.6	N.D. d #
8)	L4 Aroclor-1242 {2}	9.26	9.38	980548	454100	275.3	366.2 #
9)	L4 Aroclor-1242 {3}	10.12	10.08	5040116	2104766	767.0 E	881.2 E
10)	L4 Aroclor-1242 {4}	11.16	11.26	7745366	2559810	2685.7 E	3275.6 E
11)	L4 Aroclor-1242 {5}	12.30	12.34	5308944	1859704	2362.0 E	2680.7mE
	Sum Aroclor-1242			20059079	6978381	6571.6	7203.8
	Average Aroclor-1242					1314.327	1800.951
12)	L6 Aroclor-1254	10.73	10.66	13059268	2648710	3575.0mE BTB	3009.5 E
13)	L6 Aroclor-1254 {2}	11.85	12.08	6167259	3409316	911.5 E 092401	1720.3 E#
14)	L6 Aroclor-1254 {3}	12.16	13.01	4561603	4125876	737.3 E	1553.5 E#
15)	L6 Aroclor-1254 {4}	12.94	13.44	8704668	2498315	1221.0 E	1704.0 E#
16)	L6 Aroclor-1254 {5}	14.17	14.24	8903940	3783835	1542.1mE	1928.0 E#
	Sum Aroclor-1254			41396738	16466051	7986.9	9915.2
	Average Aroclor-1254					1597.379	1983.045
17)	L7 Aroclor-1260	0.00	13.32	0	2009755	N.D. d	884.3 E#
18)	L7 Aroclor-1260 {2}	13.56	14.07	4206148	1436642	717.0mE	968.6 E#
19)	L7 Aroclor-1260 {3}	14.84	15.03	2623604	548226	699.3	281.2 #
20)	L7 Aroclor-1260 {4}	15.40	16.42	3343657	971449	396.0	485.9
21)	L7 Aroclor-1260 {5}	16.21	17.75	2987008	759821	464.6	539.1
	Sum Aroclor-1260			13160416	5725893	1260.8	1749.3
	Average Aroclor-1260					569.245	631.836

(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\3\DATA\09_17_01\3_091722.D
Date Acquired: 18 Sep 2001 2:01
Inst: HP_03 Operator ID: BTB
Name: 47348.02MS *E03C9MS *
Misc: *EPA*30.1G/5.0ML*40
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 24 15:47 2001 Quant Results File: XPCBI16.RES



ok 9-25-01 BTB

Aroclor-1254 10.73min area: 13059268 m

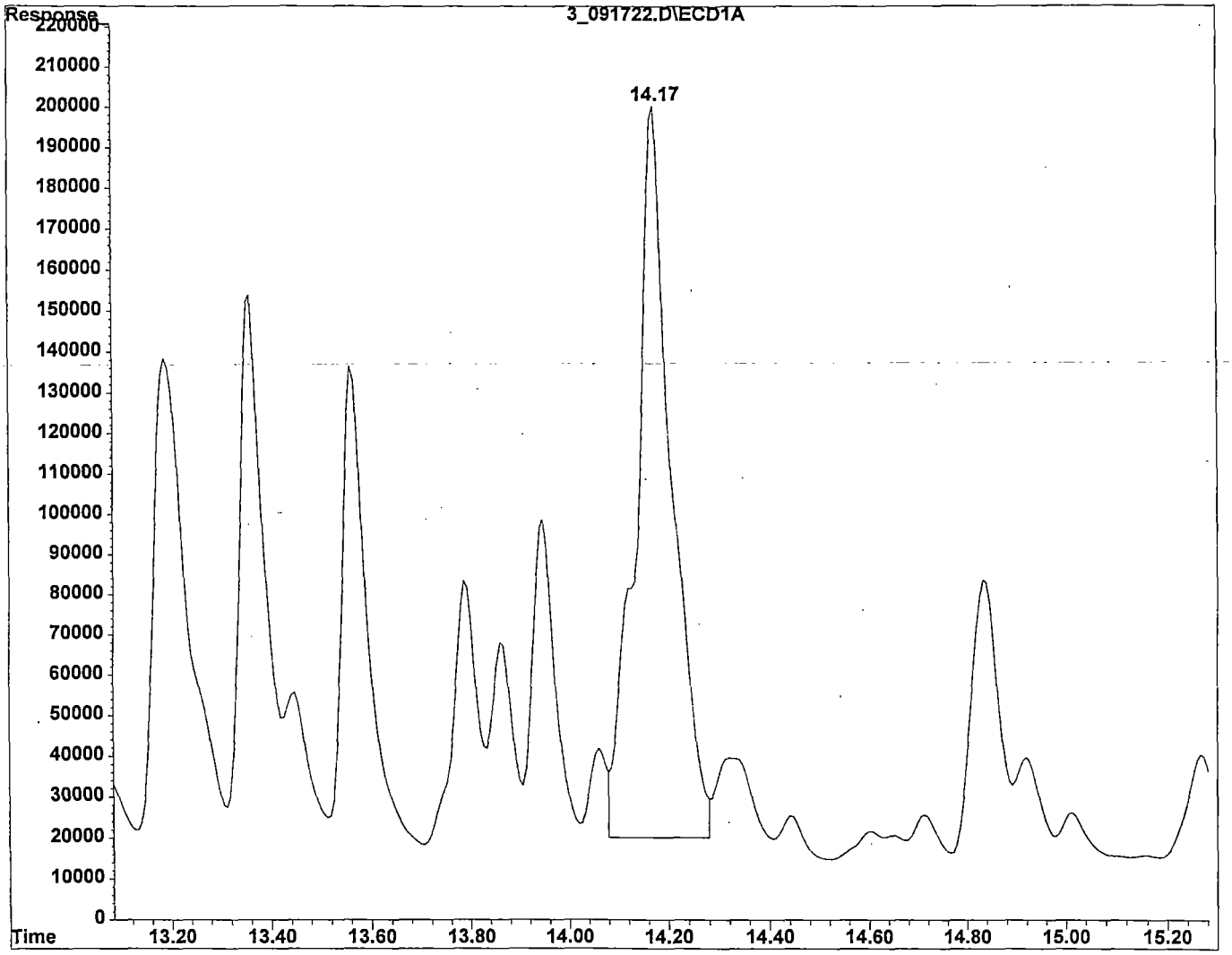
BTB

Integration Time Range: 10.64 - 10.92 09/24/01

F:\HPCHEM\HP\3\DATA\09_17_01\3_091722.D
Report generated: Mon Sep 24 16:12:39 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091722.D
Date Acquired: 18 Sep 2001 2:01
Inst: HP_03 Operator ID: BTB
Name: 47348.02MS *E03C9MS *
Misc: *EPA*30.1G/5.0ML*40
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:36 2001 Quant Results File: XPCBI16.RES



OK 9-21-01

Aroclor-1254 {5} 14.17min area: 8903940 m

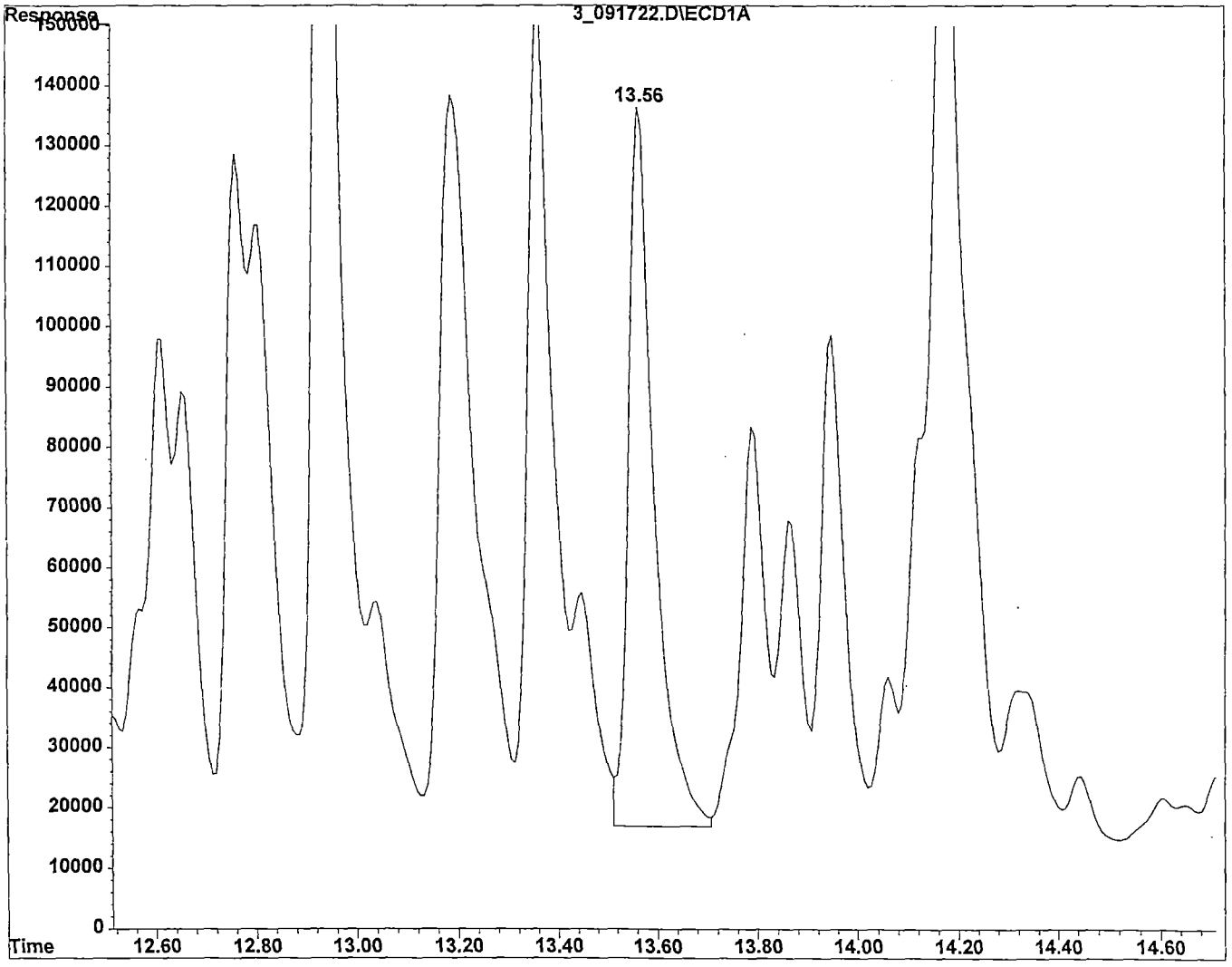
BTB 091901

Integration Time Range: 14.08 - 14.28

F:\HPCHEM\HP\3\DATA\09_17_01\3_091722.D
Report generated: Wed Sep 19 11:23:14 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091722.D
Date Acquired: 18 Sep 2001 2:01
Inst: HP_03 Operator ID: BTB
Name: 47348.02MS *E03C9MS *
Misc: *EPA*30.1G/5.0ML*40
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:36 2001 Quant Results File: XPCBI16.RES



OK 9-21-01

Aroclor-1260 {2} 13.56min area: 4206148 m

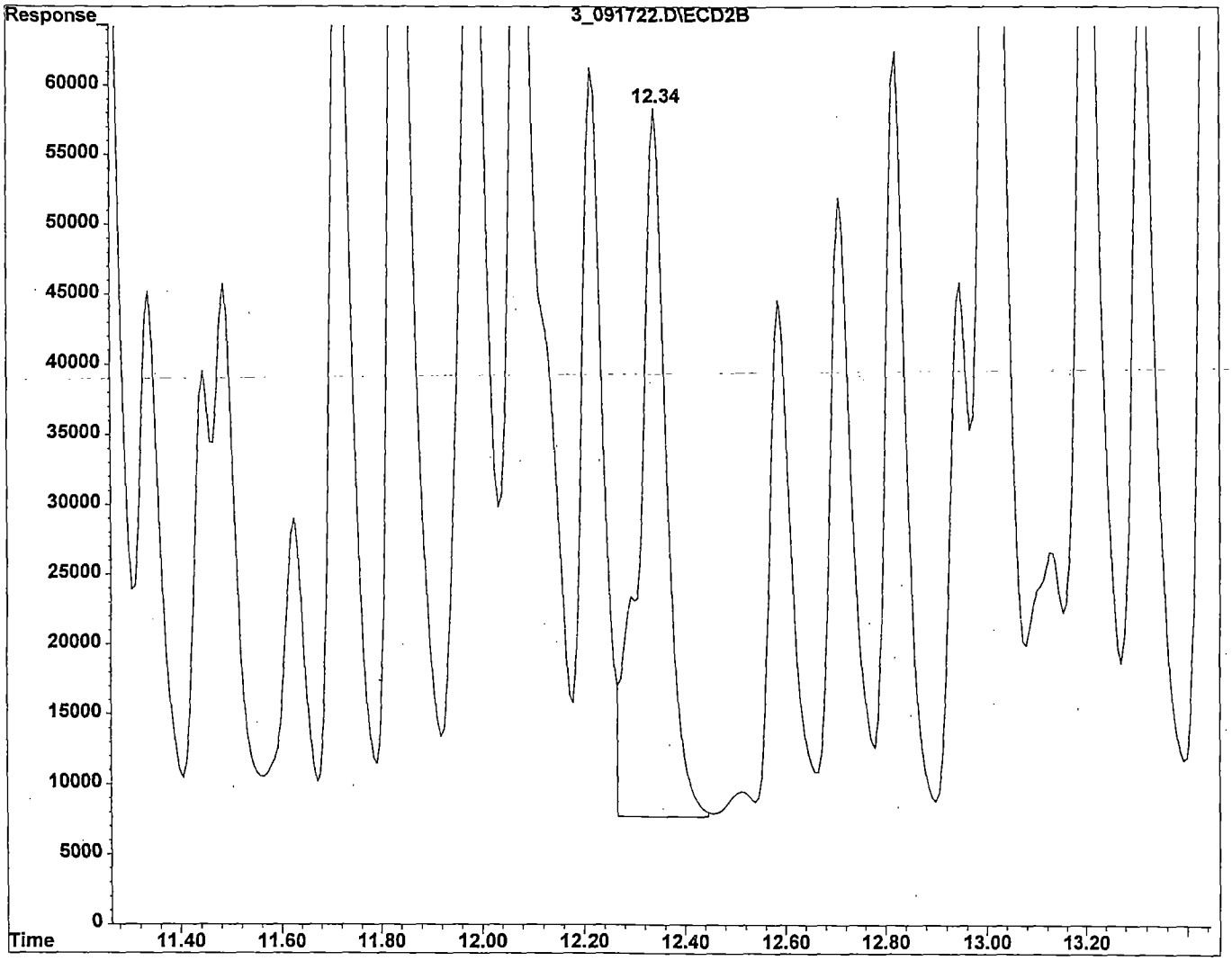
BTB 091901

Integration Time Range: 13.51 - 13.71

F:\HPCHEM\HP\3\DATA\09_17_01\3_091722.D
Report generated: Wed Sep 19 11:23:14 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091722.D
Date Acquired: 18 Sep 2001 2:01
Inst: HP_03 Operator ID: BTB
Name: 47348.02MS *E03C9MS *
Misc: *EPA*30.1G/5.0ML*40
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:36 2001 Quant Results File: XPCBI16.RES



OK 9-21-01

Aroclor-1242 {5} #2 12.34min area: 1859704 m

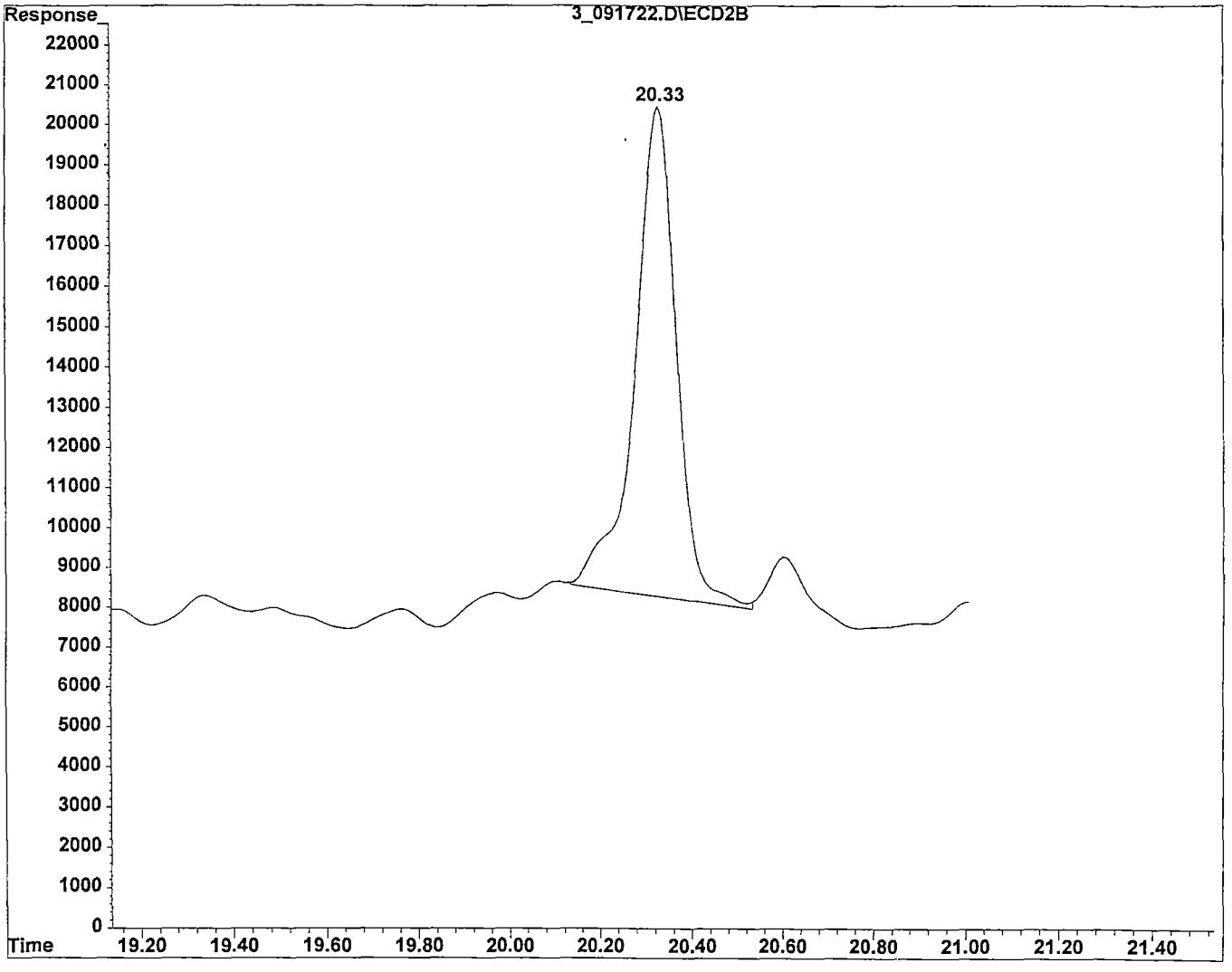
Integration Time Range: 12.26 - 12.45

BTB
091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091722.D
Report generated: Wed Sep 19 11:23:15 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091722.D
Date Acquired: 18 Sep 2001 2:01
Inst: HP_03 Operator ID: BTB
Name: 47348.02MS *E03C9MS *
Misc: *EPA*30.1G/5.0ML*40
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:36 2001 Quant Results File: XPCBI16.RES



GK 9-21-01

DCB #2 20.33min area: 761692 m BTB 091901

Integration Time Range: 20.13 - 20.53

F:\HPCHEM\HP\3\DATA\09_17_01\3_091722.D
Report generated: Wed Sep 19 11:23:15 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E03C9MSD

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E03C9

Matrix: (soil/water) SOIL Lab Sample ID: 47348.03MSD

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

% Moisture: 40 decanted: (Y/N) __ Date Received: 08/20/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/23/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/18/01

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	55	U
11104-28-2	Aroclor-1221	55	U
11141-16-5	Aroclor-1232	55	U
53469-21-9	Aroclor-1242	1300	EP
12672-29-6	Aroclor-1248	55	U
11097-69-1	Aroclor-1254	1500	EP
11096-82-5	Aroclor-1260	510	P
Surrogate amount spiked		11.08	

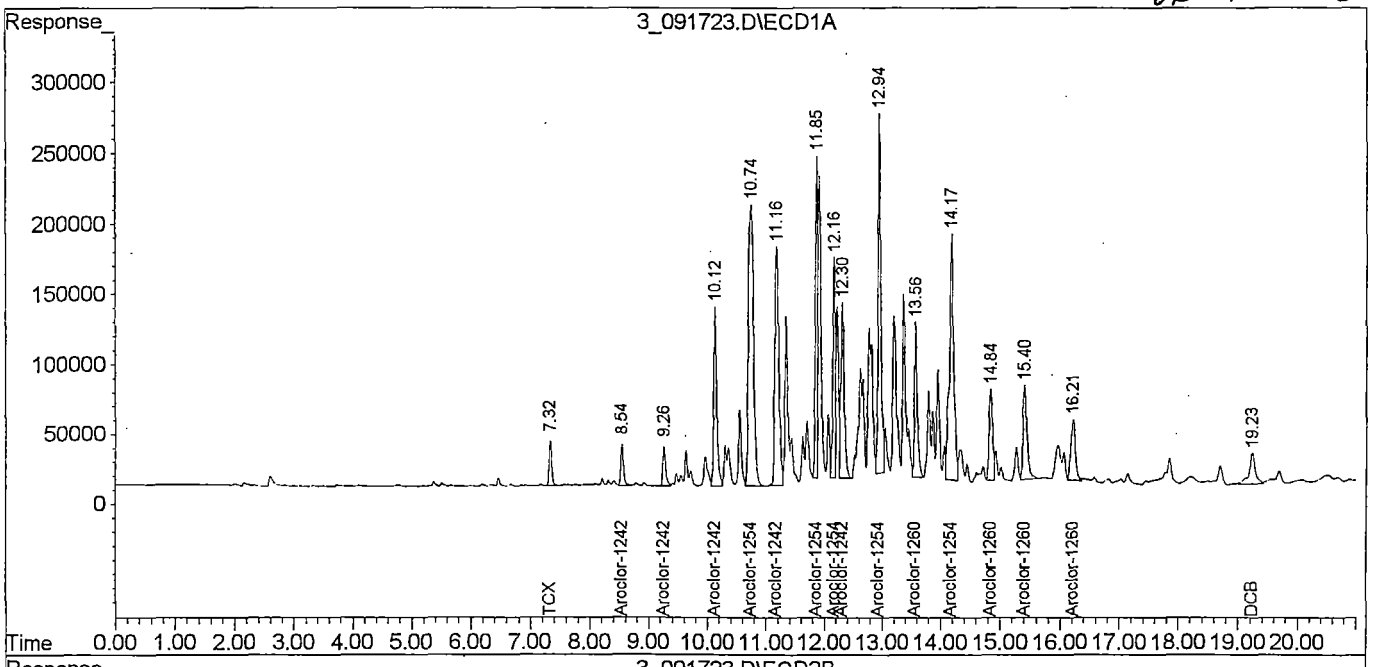
Chromatographic Report

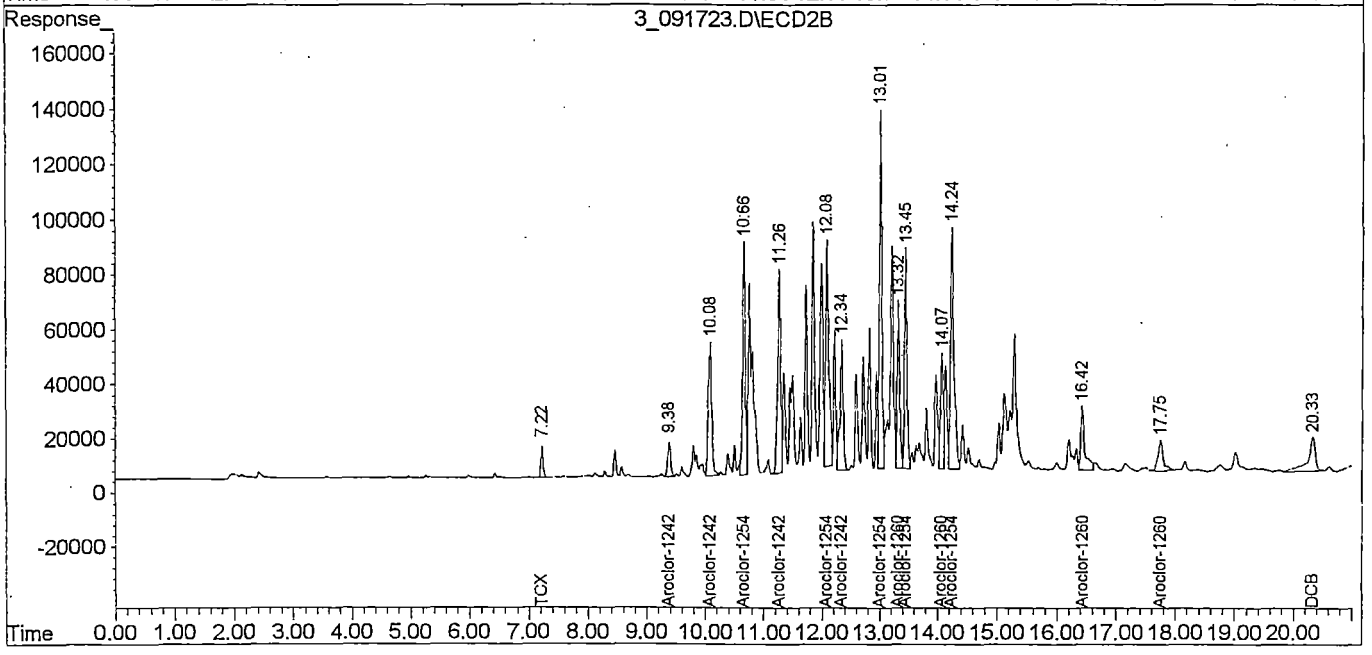
Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091723.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091723.D\ECD2B.CH
Acq On : 18 Sep 2001 2:26 Operator: BTB
Sample : 47348.03MSD *E03C9MSD * Inst : HP_03
Misc : *EPA*30.1G/5.0ML*40 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 24 15:47 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

OK 9-05-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091723.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091723.D\ECD2B.CH
Acq On : 18 Sep 2001 2:26 Operator: BTB
Sample : 47348.03MSD *E03C9MSD * Inst : HP_03
Misc : *EPA*30.1G/5.0ML*40 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 24 15:47 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	938361	295222	9.583	10.1
	Spiked Amount 11.074			Recovery	=	86.53%	91.20%
22)	S DCB	19.24	20.33	1591914	1097196	15.7	24.8m #
	Spiked Amount 11.074			Recovery	=	141.77%	223.94%
	Target Compounds:						
7)	L4 Aroclor-1242	8.54	0.00	957319	0	468.5	N.D. d #
8)	L4 Aroclor-1242 {2}	9.26	9.38	931734	440118	261.6	354.9 #
9)	L4 Aroclor-1242 {3}	10.12	10.08	4764916	2023553	725.1	847.2 E
10)	L4 Aroclor-1242 {4}	11.16	11.26	7581976	2479872	2629.1mE	3173.4 E
11)	L4 Aroclor-1242 {5}	12.31	12.34	5089647	1797132	2264.4 E	2590.5mE
	Sum Aroclor-1242			19325592	6740675	6348.7	6966.0
	Average Aroclor-1242					1269.744	1741.509
12)	L6 Aroclor-1254	10.74	10.66	12629304	2588812	3457.3mE	2941.4 E
13)	L6 Aroclor-1254 {2}	11.85	12.08	5862893	3270231	866.5 E	1650.1 E#
14)	L6 Aroclor-1254 {3}	12.16	13.02	4388905	3996546	709.4	1504.8 E#
15)	L6 Aroclor-1254 {4}	12.94	13.45	8356358	2380372	1172.2 E	1623.5 E#
16)	L6 Aroclor-1254 {5}	14.18	14.24	8889003	3610888	1539.5 E	1839.9 E
	Sum Aroclor-1254			40126464	15846849	7744.9	9559.7
	Average Aroclor-1254					1548.970	1911.946
17)	L7 Aroclor-1260	0.00	13.32	0	1930737	N.D. d	849.5 E#
18)	L7 Aroclor-1260 {2}	13.56	14.07	3820656	1376350	651.3m	928.0 E#
19)	L7 Aroclor-1260 {3}	14.84	0.00	2465388	0	657.1	N.D. d #
20)	L7 Aroclor-1260 {4}	15.40	16.43	2935341	1130886	347.7	565.7 #
21)	L7 Aroclor-1260 {5}	16.22	17.75	2391884	684961	372.1	486.0 #
	Sum Aroclor-1260			11613268	5122934	1123.0	1566.6
	Average Aroclor-1260					507.040	707.308

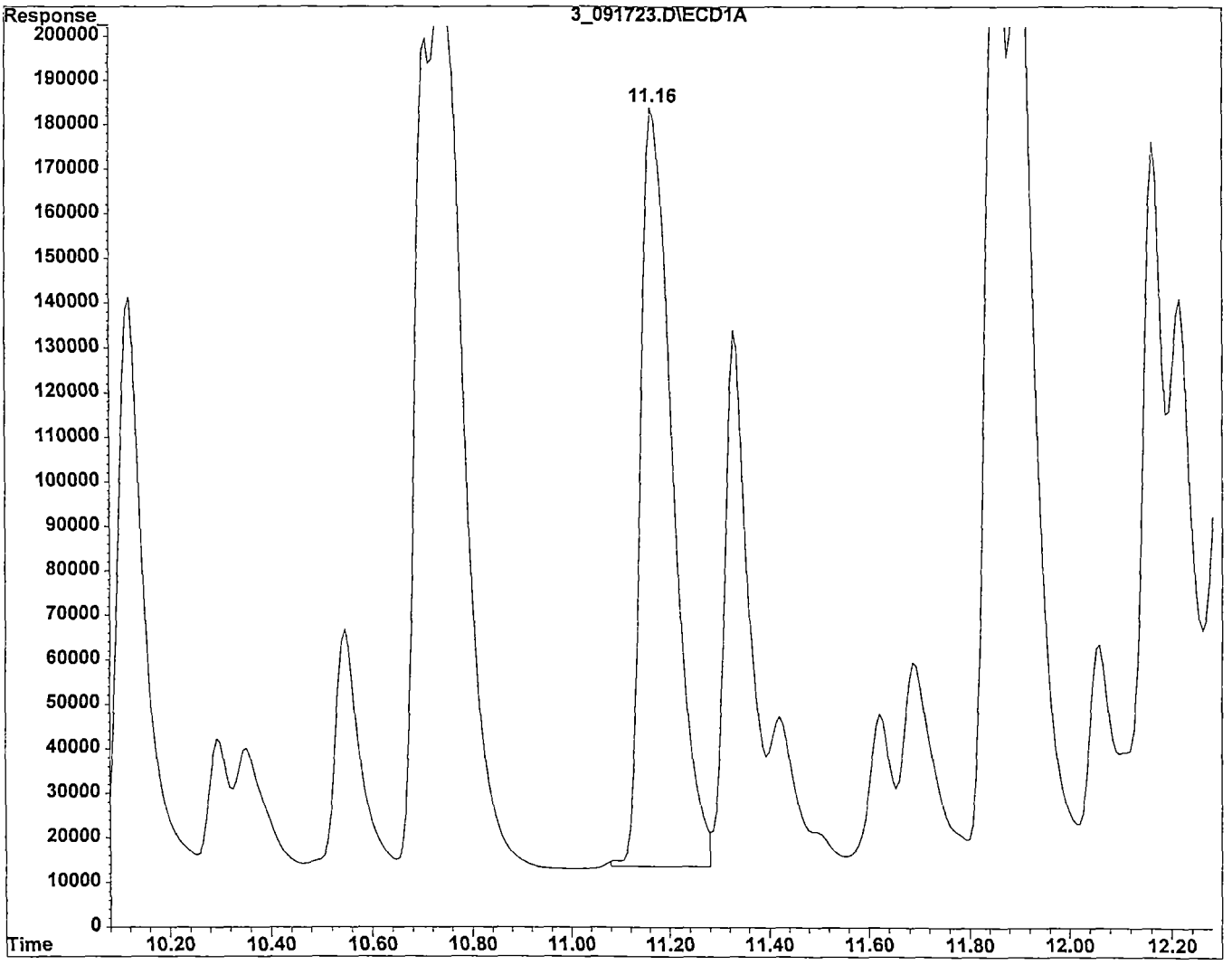
BTB 092401

BTB 092402

(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\3\DATA\09_17_01\3_091723.D
Date Acquired: 18 Sep 2001 2:26
Inst: HP_03 Operator ID: BTB
Name: 47348.03MSD *E03C9,MSD *
Misc: *EPA*30.1G/5.0ML*40
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:38 2001 Quant Results File: XPCBI16.RES



UK 9-25-01

Aroclor-1242 {4} 11.16min area: 7581976 m

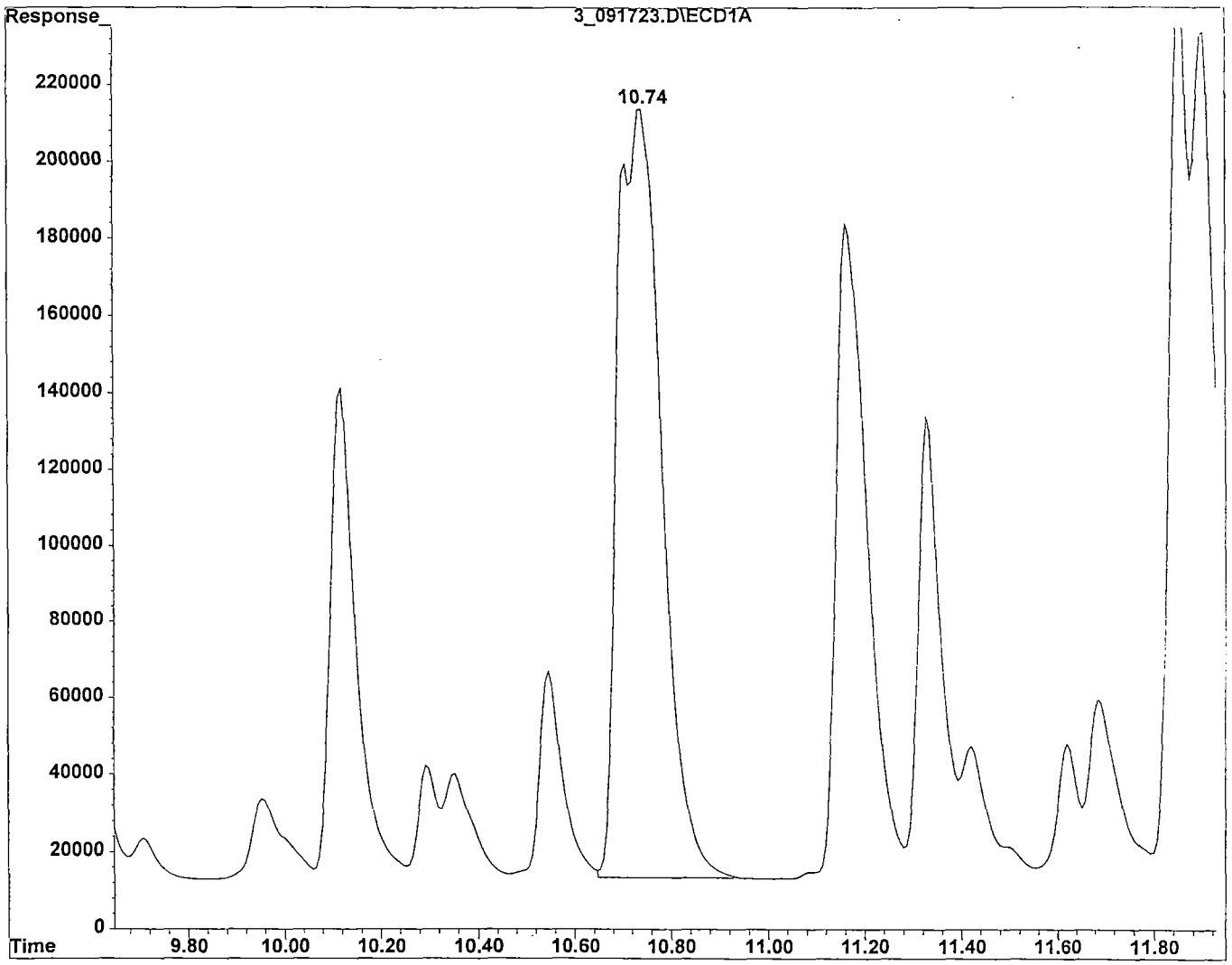
BTB 091901

Integration Time Range: 11.08 - 11.28

F:\HPCHEM\HP\3\DATA\09_17_01\3_091723.D
Report generated: Wed Sep 19 11:23:17 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091723.D
Date Acquired: 18 Sep 2001 2:26
Inst: HP_03 Operator ID: BTB
Name: 47348.03MSD *E03C9MSD *
Misc: *EPA*30.1G/5.0ML*40
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 24 15:47 2001 Quant Results File: XPCBI16.RES



OK 9-25-01

Aroclor-1254 10.74min area: 12629304 m

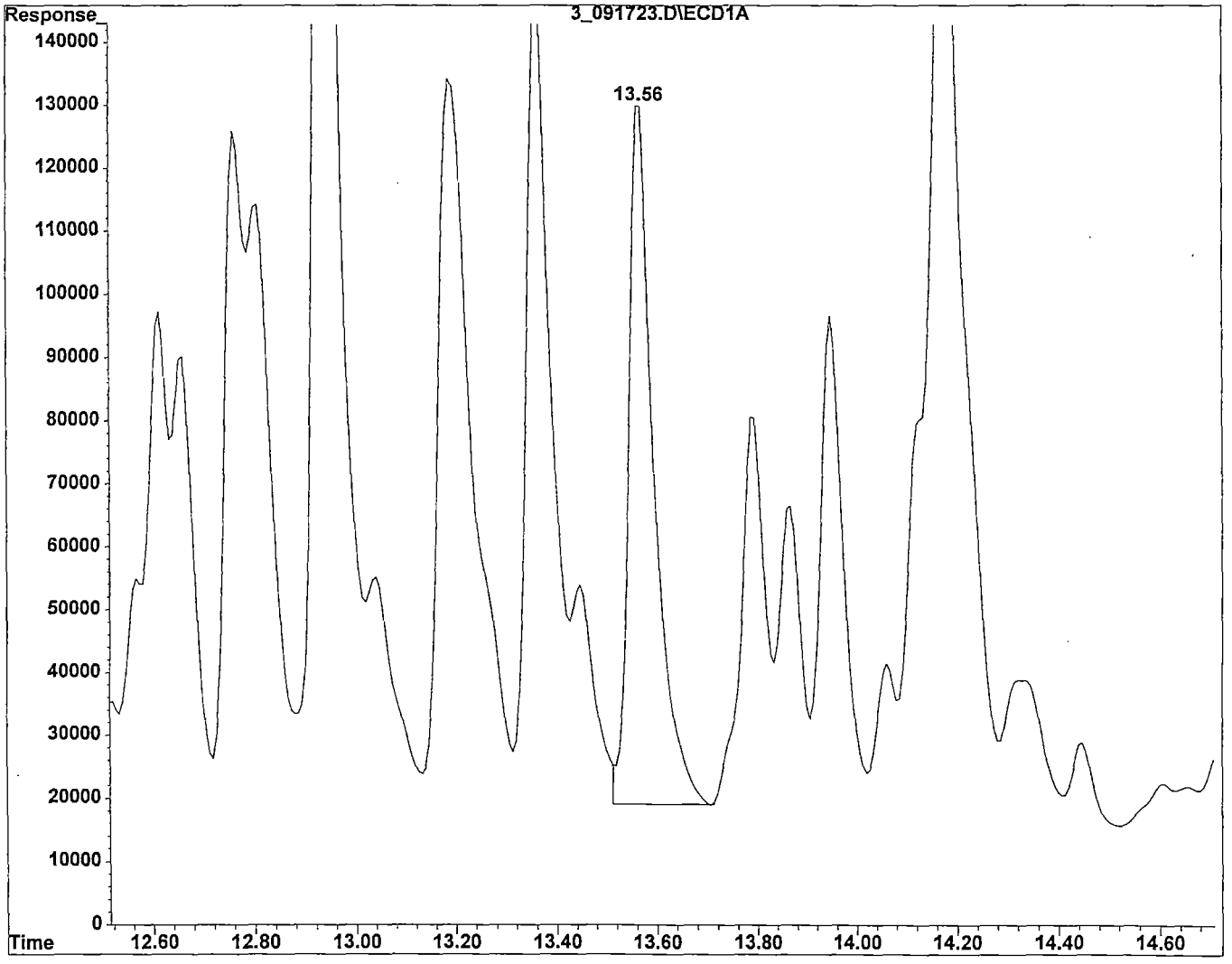
BTB 092401

Integration Time Range: 10.65 - 10.93

F:\HPCHEM\HP\3\DATA\09_17_01\3_091723.D
Report generated: Mon Sep 24 16:12:43 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091723.D
Date Acquired: 18 Sep 2001 2:26
Inst: HP_03 Operator ID: BTB
Name: 47348.03MSD *E03C9,MSD *
Misc: *EPA*30.1G/5.0ML*40
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:38 2001 Quant Results File: XPCBI16.RES



OK 9-25-01 CH

Aroclor-1260 {2} 13.56min area: 3820656 m

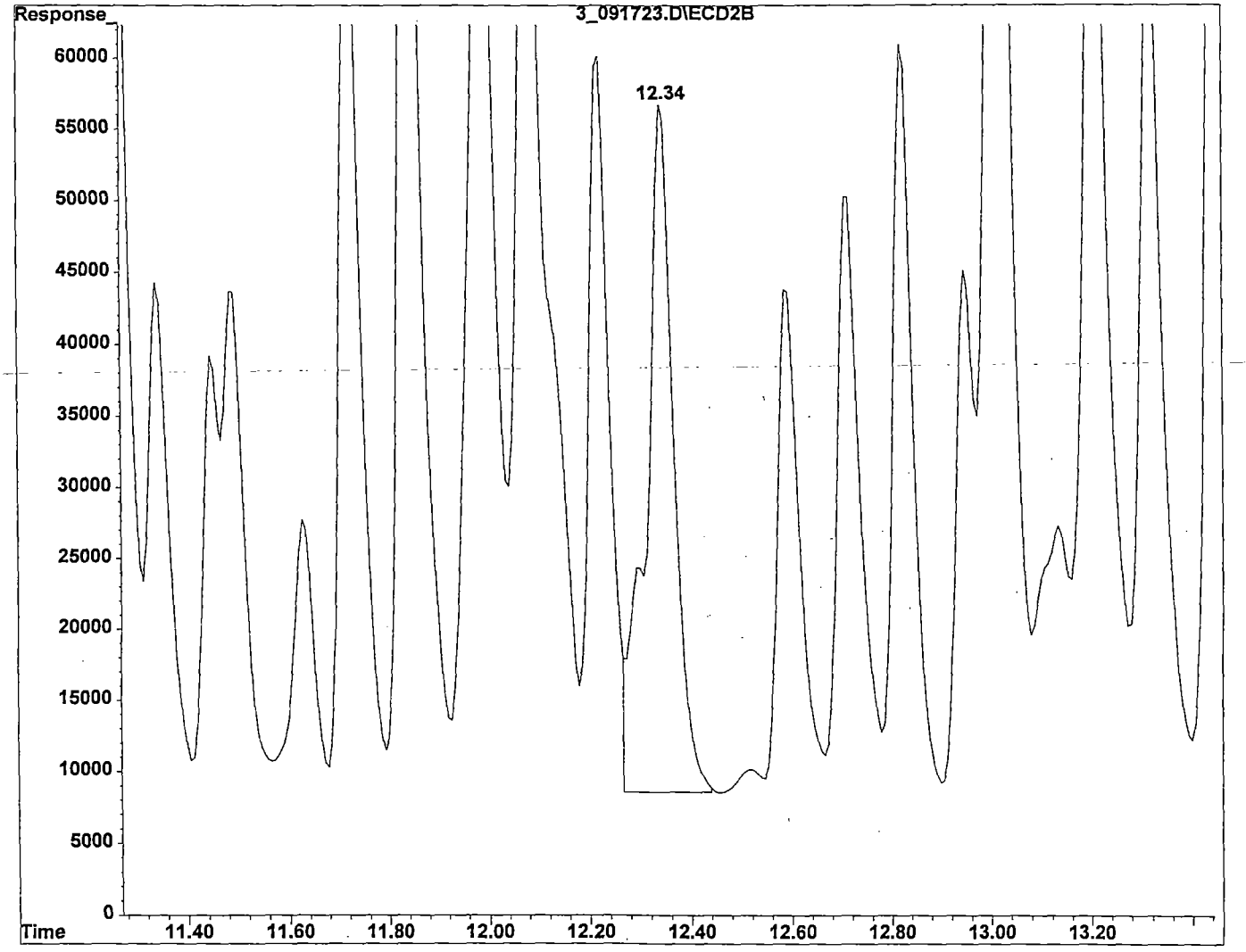
BTB 09/19/01

Integration Time Range: 13.51 - 13.71

F:\HPCHEM\HP\3\DATA\09_17_01\3_091723.D
Report generated: Wed Sep 19 11:23:17 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091723.D
Date Acquired: 18 Sep 2001 2:26
Inst: HP_03 Operator ID: BTB
Name: 47348.03MSD *E03C9,MSD *
Misc: *EPA*30.1G/5.0ML*40
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:38 2001 Quant Results File: XPCBI16.RES



OK 9-25-01

Aroclor-1242 {5} #2 12.34min area: 1797132 m

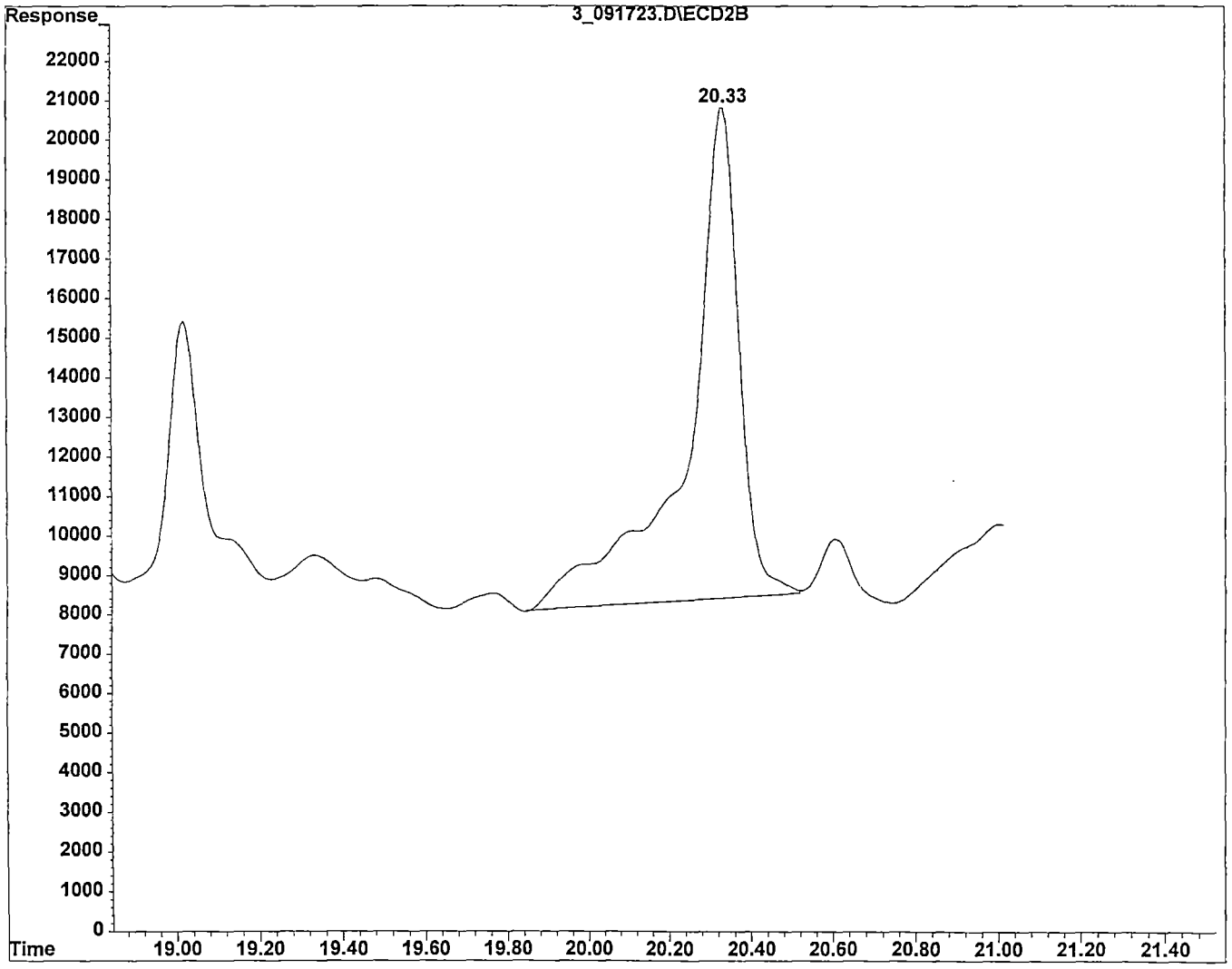
Integration Time Range: 12.27 - 12.44

BTB 091901

F:\HPCHEM\HP\3\DATA\09_17_01\3_091723.D
Report generated: Wed Sep 19 11:23:18 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_17_01\3_091723.D
Date Acquired: 18 Sep 2001 2:26
Inst: HP_03 Operator ID: BTB
Name: 47348.03MSD *E03C9,MSD *
Misc: *EPA*30.1G/5.0ML*40
Method: F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:38 2001 Quant Results File: XPCBI16.RES



DCB #2 20.33min area: 1097196 m

Integration Time Range: 19.84 - 20.52

BTB 091901

ok 9-25-01 [illegible]

F:\HPCHEM\HP\3\DATA\09_17_01\3_091723.D
Report generated: Wed Sep 19 11:23:18 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
08/27/01 15:14	1	CAL STD (INITIAL)	2_082701	
08/27/01 15:45	2	SB	2_082702	
08/27/01 16:16	3	SB	2_082703	
08/27/01 16:47	4	SB	2_082704	
08/27/01 17:19	5	SB	2_082705	
08/27/01 17:50	6	SB#082701C (PEST)	2_082706	
08/27/01 18:21	7	SB#082701D (PEST)	2_082707	
08/27/01 18:52	8	BL0823SB-EPA	2_082708	
08/27/01 19:23	9	BB0823SB-EPA	2_082709	
08/27/01 19:54	10	LC0823SB-EPA	2_082710	
08/27/01 20:25	11	LD0823SB-EPA	2_082711	
08/27/01 20:56	12	47348.14-E03E0-EPA	2_082712	
08/27/01 21:27	13	47348.15-E03E1-EPA	2_082713	
08/27/01 21:58	14	47348.16-E03E2-EPA	2_082714	
08/27/01 22:30	15	47348.21-E03E7-EPA	2_082715	
08/27/01 23:01	16	47348.13-E03D9-EPA	2_082716	
08/27/01 23:32	17	47348.22-E03E8-EPA	2_082717	
08/28/01 00:03	18	47348.20-E03E6-EPA	2_082718	
08/28/01 00:34	19	47348.17-E03E3-EPA	2_082719	
08/28/01 01:05	20	47348.12-E03D8-EPA	2_082720	
08/28/01 01:36	21	47348.10-E03D6-EPA	2_082721	

9/6/2001
Verification Signature/Date

9/5/01
Analyst Signature/Date

Book: OE-102-16-RUN-

Page No.: 26

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
08/28/01 02:07	22	47348.19-E03E5-EPA	2_082722	
08/28/01 02:38	23	47348.07-E03D3-EPA	2_082723	
08/28/01 03:09	24	47348.08-E03D4-EPA	2_082724	
08/28/01 03:41	25	47348.09-E03D5-EPA	2_082725	
08/28/01 04:12	26	47348.18-E03E4-EPA	2_082726	
08/28/01 04:43	27	47348.11-E03D7-EPA	2_082727	
08/28/01 05:14	28	47348.01-E03C9-EPA	2_082728	
08/28/01 05:45	29	47348.02-MS-E03C9-EPA	2_082729	
08/28/01 06:16	30	47348.03-MSD-E03C9-EPA	2_082730	
08/28/01 06:47	31	47348.04-E03D0-EPA	2_082731	
08/28/01 07:18	32	47348.05-E03D1-EPA	2_082732	
08/28/01 07:49	33	47348.06-E03D2-EPA	2_082733	
08/28/01 08:20	34	SB	2_082734	
08/28/01 08:52	35	SB	2_082735	
08/28/01 09:23	36	SB	2_082736	
08/28/01 09:54	37	SB	2_082737	
08/28/01 10:25	38	CAL STD (FINAL)	2_082738	

Compound	Initial RT	Final RT	% Difference
Phthalate	15.24	14.47	5.05
Methoxychlor	16.97	16.10	5.13
Perylene	22.28	21.17	4.98

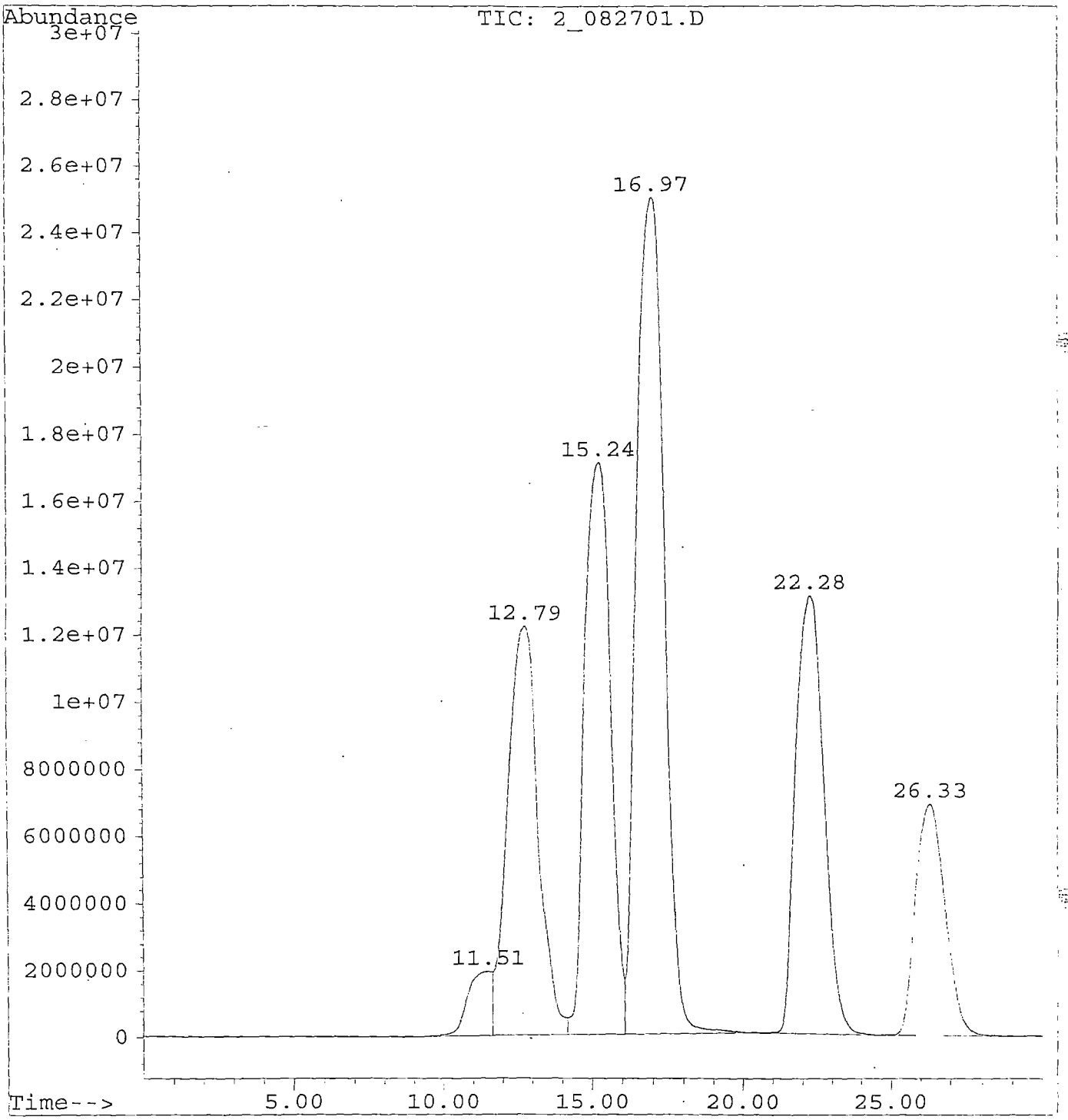
9/8/2001
Verification Signature/Date

9/5/01
Analyst Signature/Date

Book: OE-102-16-RUN- Page No.: 27

Data File : C:\HPCHEM\6\DATA\082701\2_082701.D
Acq On : 27 Aug 01 15:14
Sample : CAL STD (INITIAL)
Misc : COL# 364134

Vial: 1
Operator: CR COL#
Inst : GPC2
Multiplr: 1.00



4) 11.51 = Corn Oil
5) 15.24 = Methoxychlor

Chromatographic Resolution Report

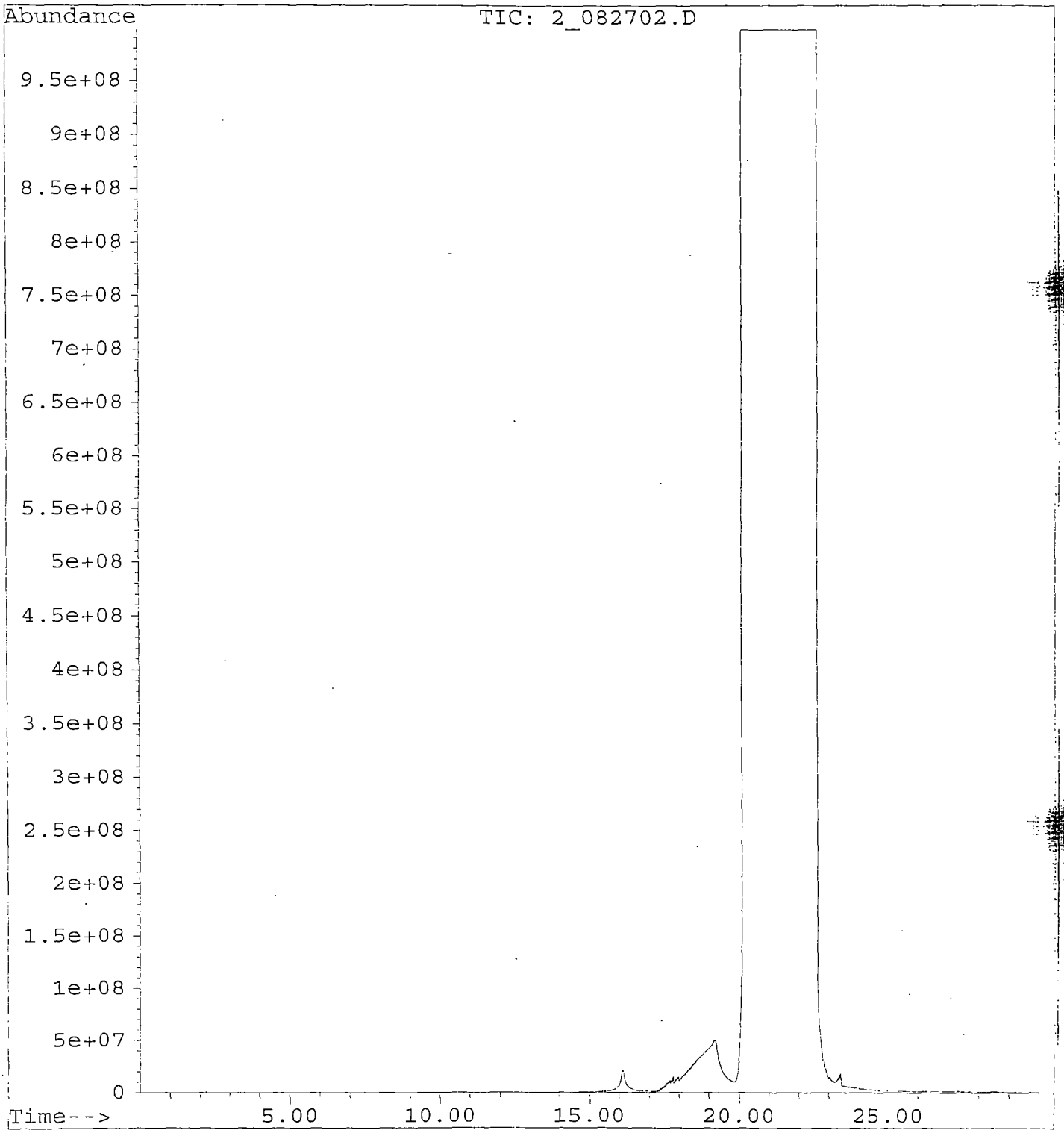
Data File : C:\HPCHEM\6\DATA\082701\2_082701.D
Acq On : 27-Aug-01 15:14
Sample : CAL STD (INITIAL)
Misc : COL# 364134

Vial: 1
Operator: CR COL# 36
Inst : GPC2
Multiplr: 1.00

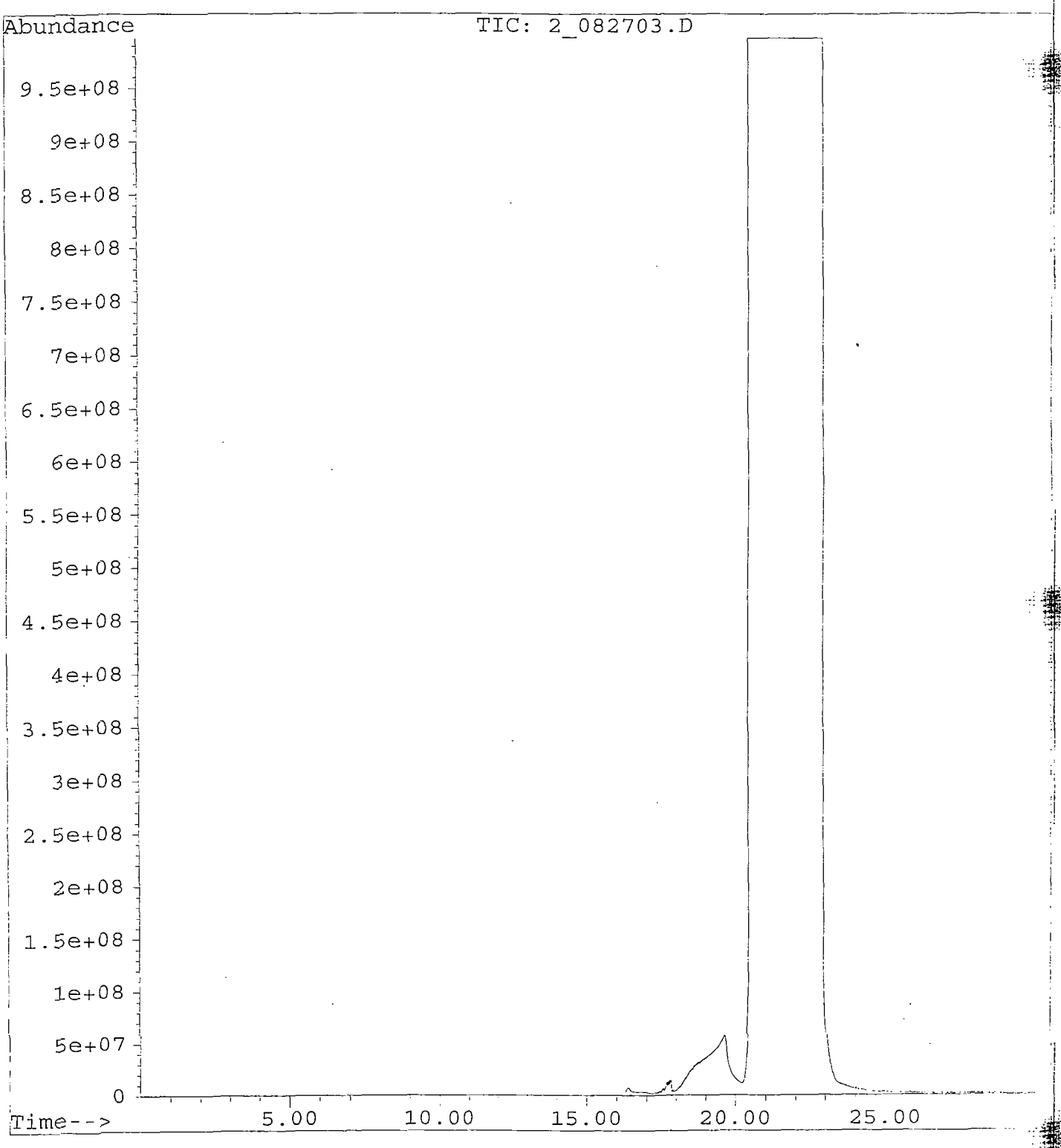
Method : C:\HPCHEM\6\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
11.513	12.787	1.72
12.787	15.245	95.68
15.245	16.969	90.29
16.969	22.285	100.00
22.285	26.332	100.00

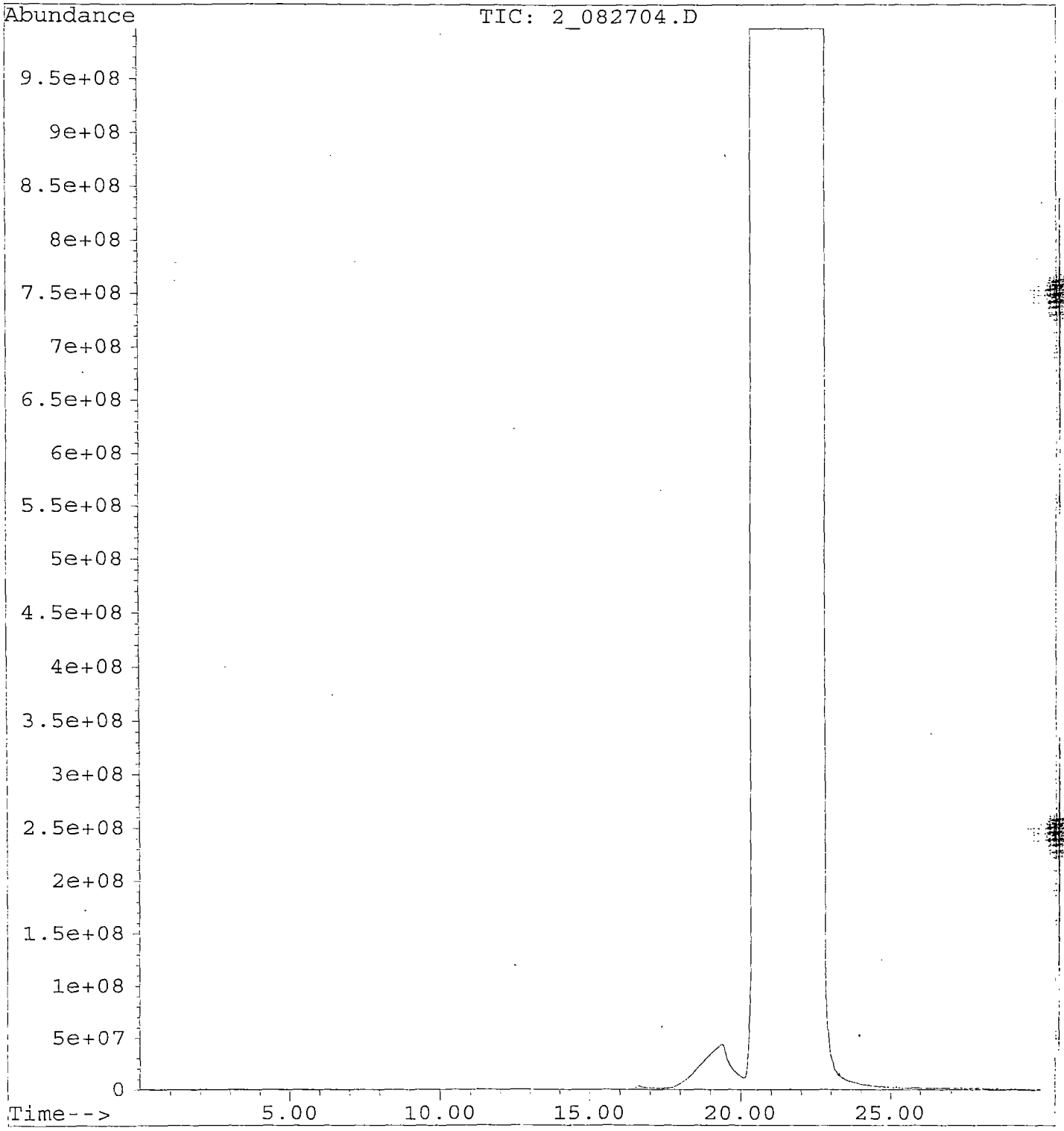
File : C:\HPCHEM\6\DATA\082701\2_082702.D
Operator : CR COL# 364134
Acquired : 27 Aug 01 15:45 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 2



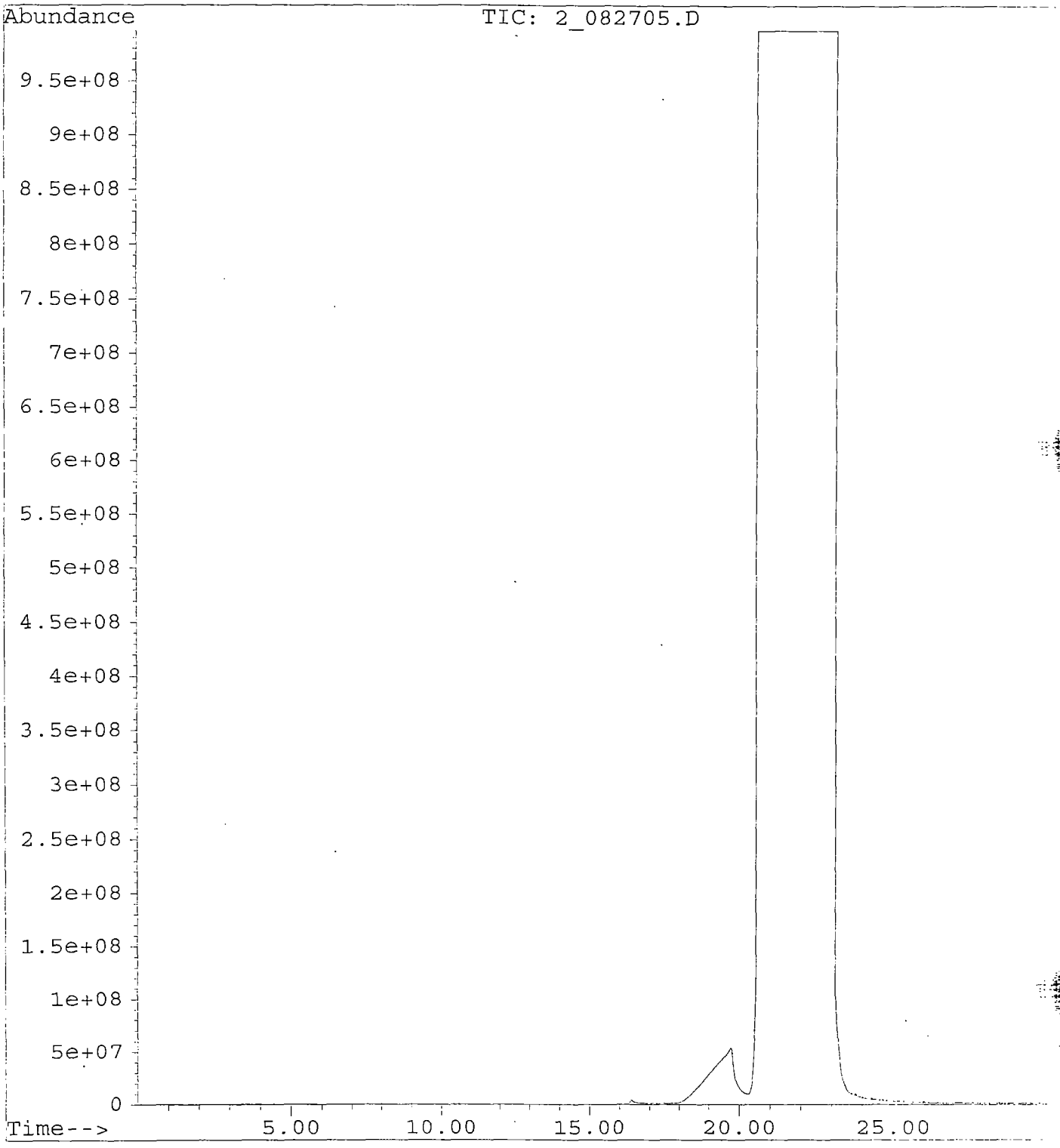
File : C:\HPCHEM\6\DATA\082701\2_082703.D
Operator : CR COL# 364134
Acquired : 27 Aug 01 16:16 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 3



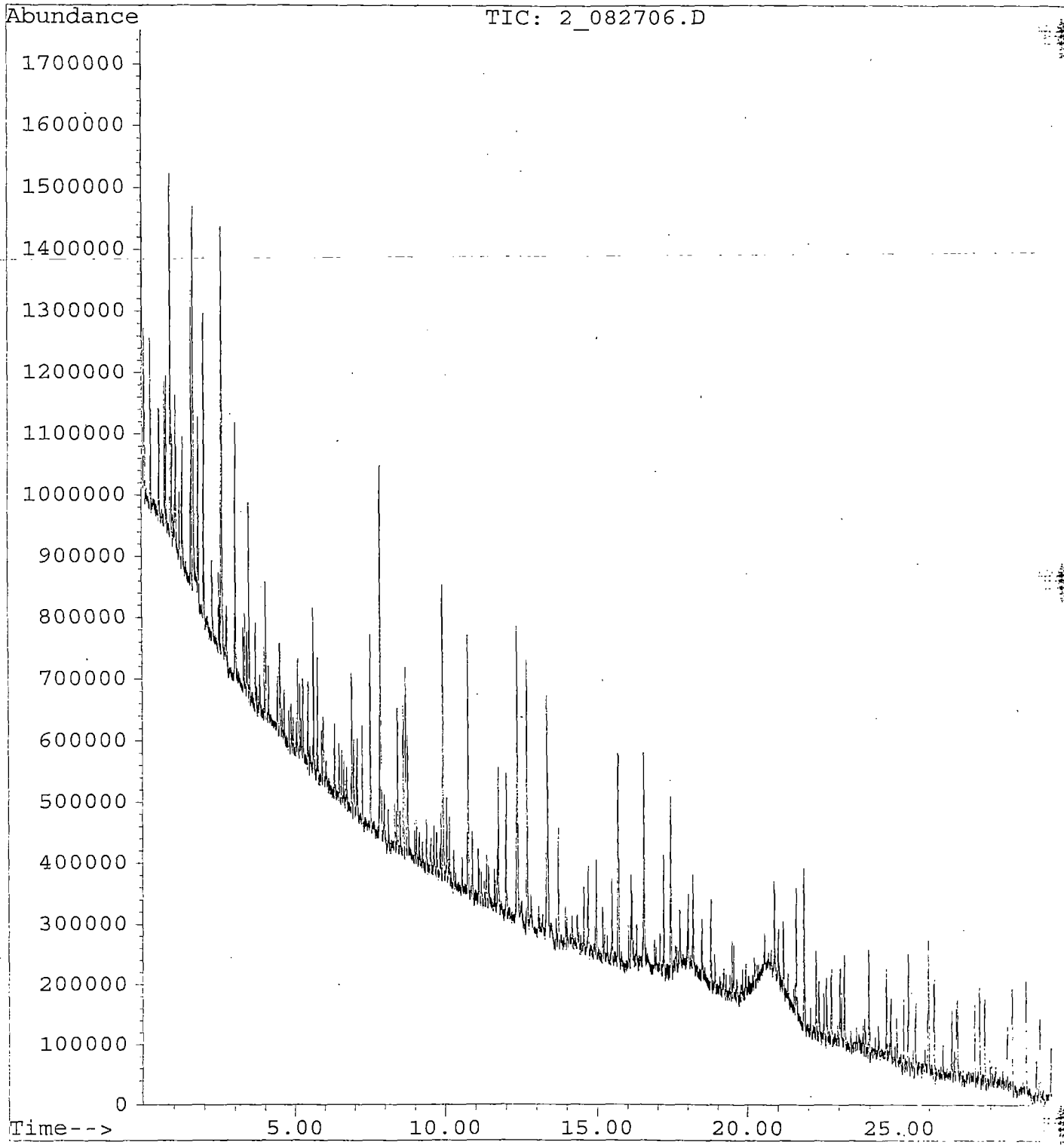
File : C:\HPCHEM\6\DATA\082701\2_082704.D
Operator : CR COL# 364134
Acquired : 27 Aug 01 16:47 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 4



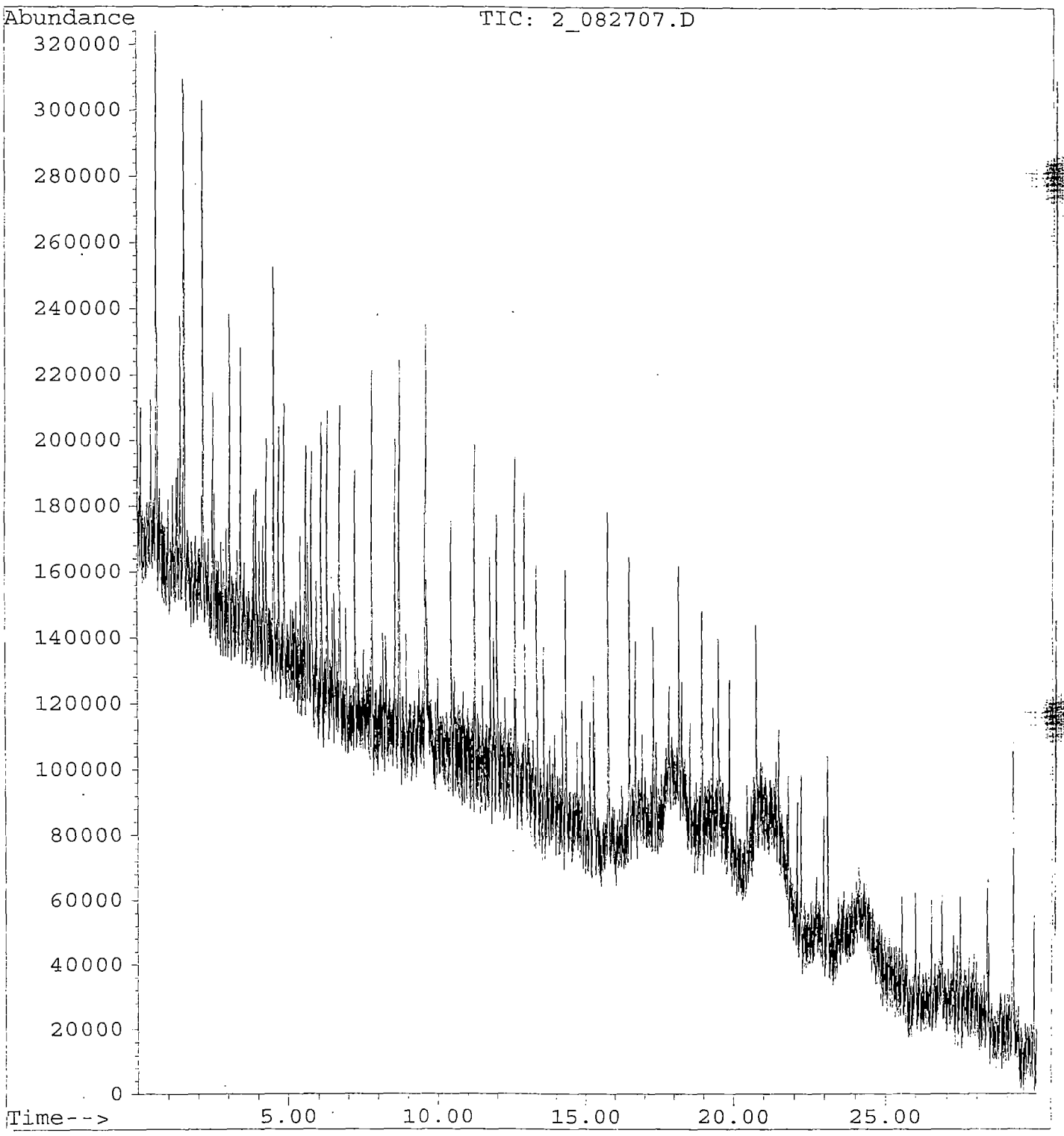
File : C:\HPCHEM\6\DATA\082701\2_082705.D
Operator : CR COL# 364134
Acquired : 27 Aug 01 17:19 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 5



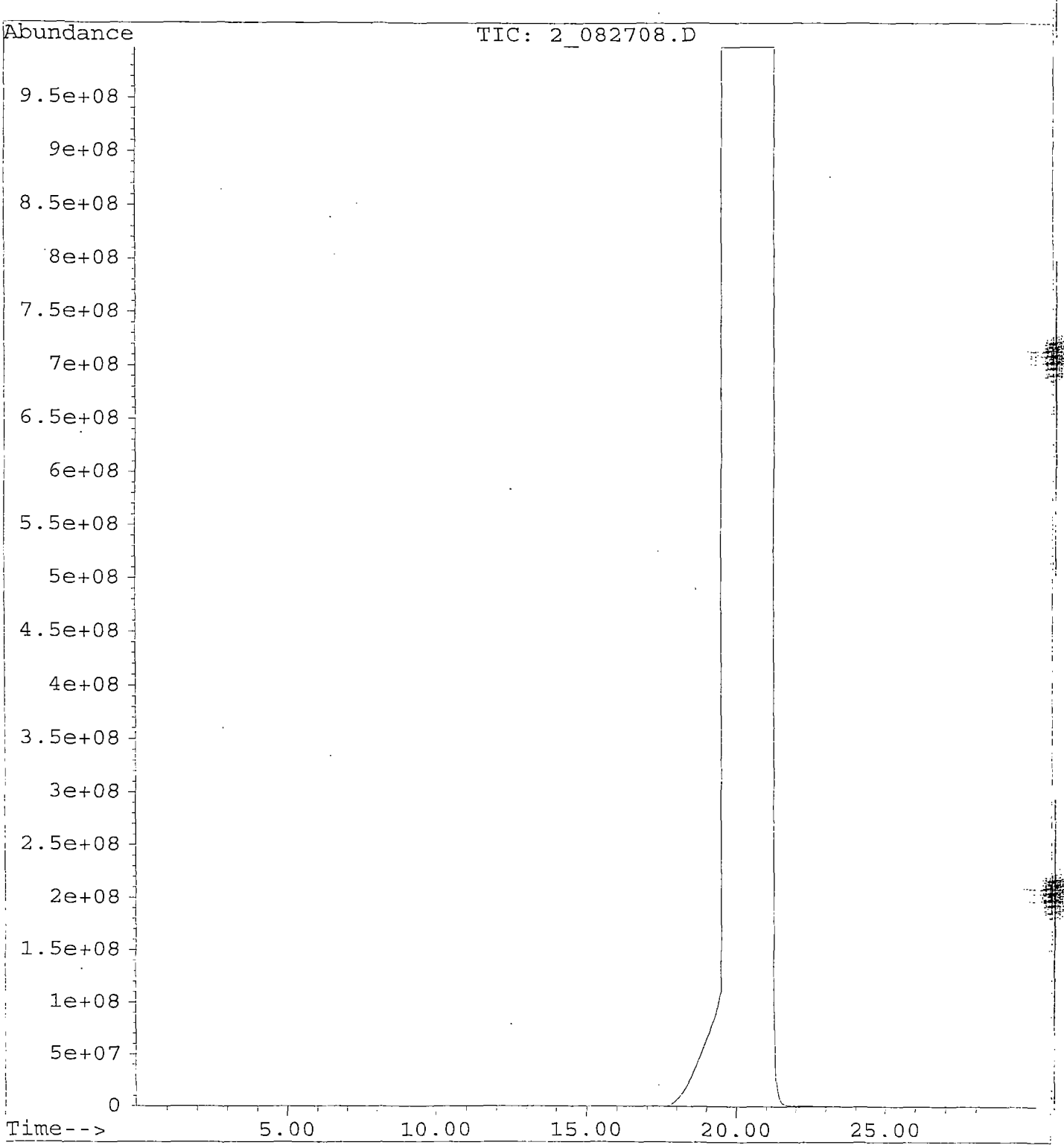
File : C:\HPCHEM\6\DATA\082701\2_082706.D
Operator : CR COL# 364134
Acquired : 27 Aug 01 17:50 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB#082701C (PEST)
Misc Info : COL# 364134
Vial Number: 6



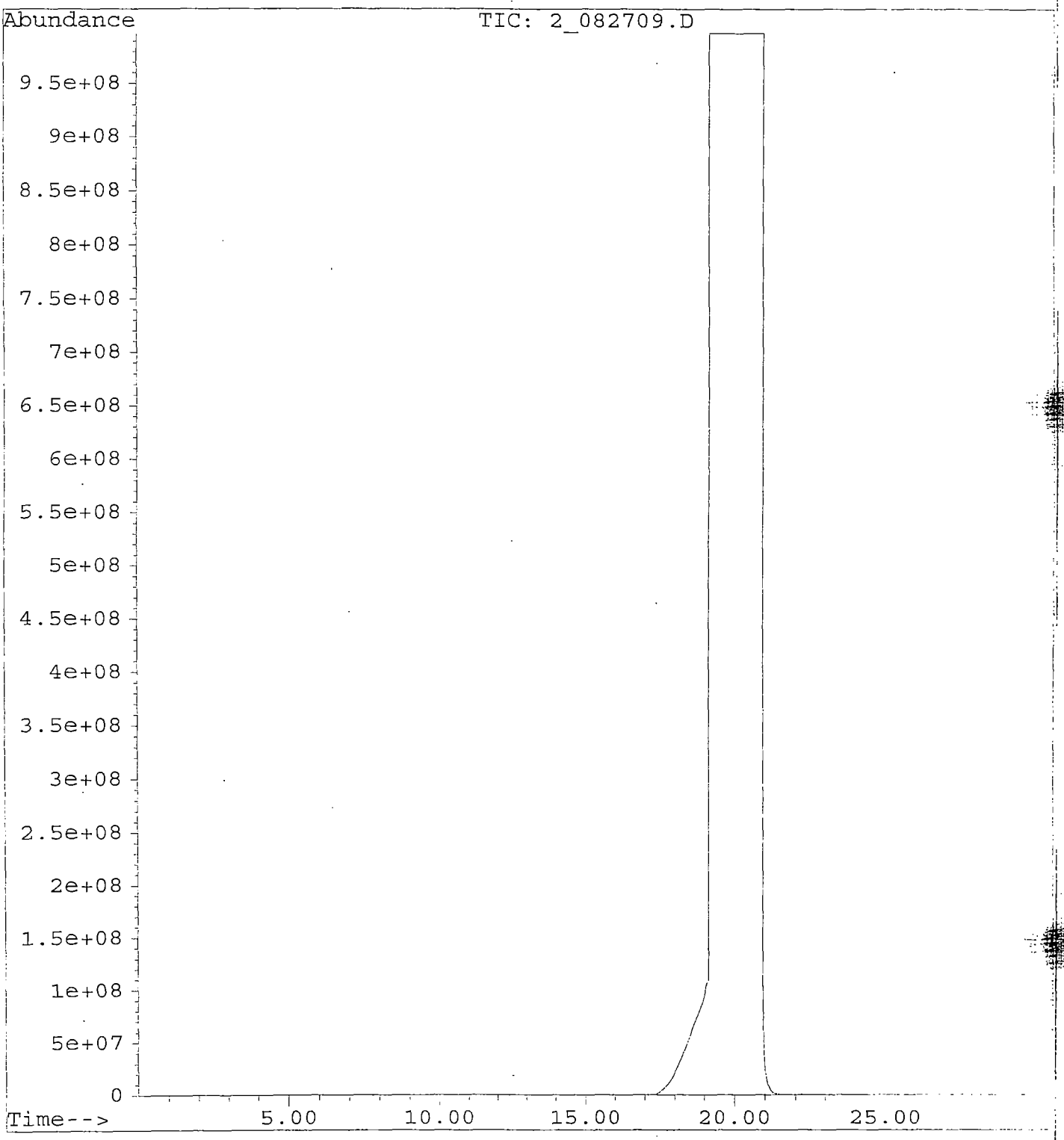
File : C:\HPCHEM\6\DATA\082701\2_082707.D
Operator : CR COL# 364134
Acquired : 27 Aug 01 18:21 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB#082701D (PEST)
Misc Info : COL# 364134
Vial Number: 7



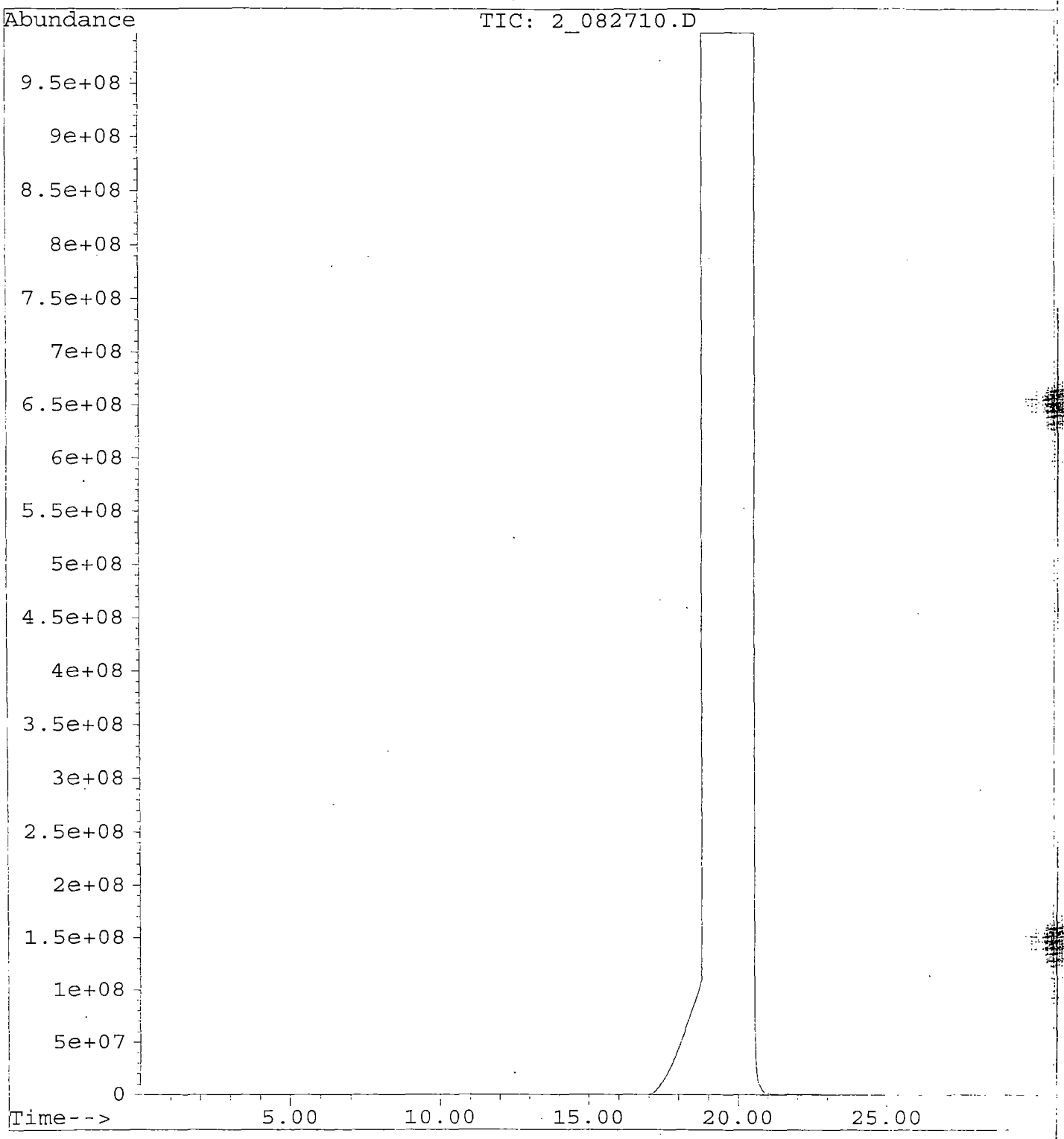
File : C:\HPCHEM\6\DATA\082701\2_082708.D
Operator : CR COL# 364134
Acquired : 27 Aug 01 18:52 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: BL0823SB-EPA
Misc Info : COL# 364134
Vial Number: 8



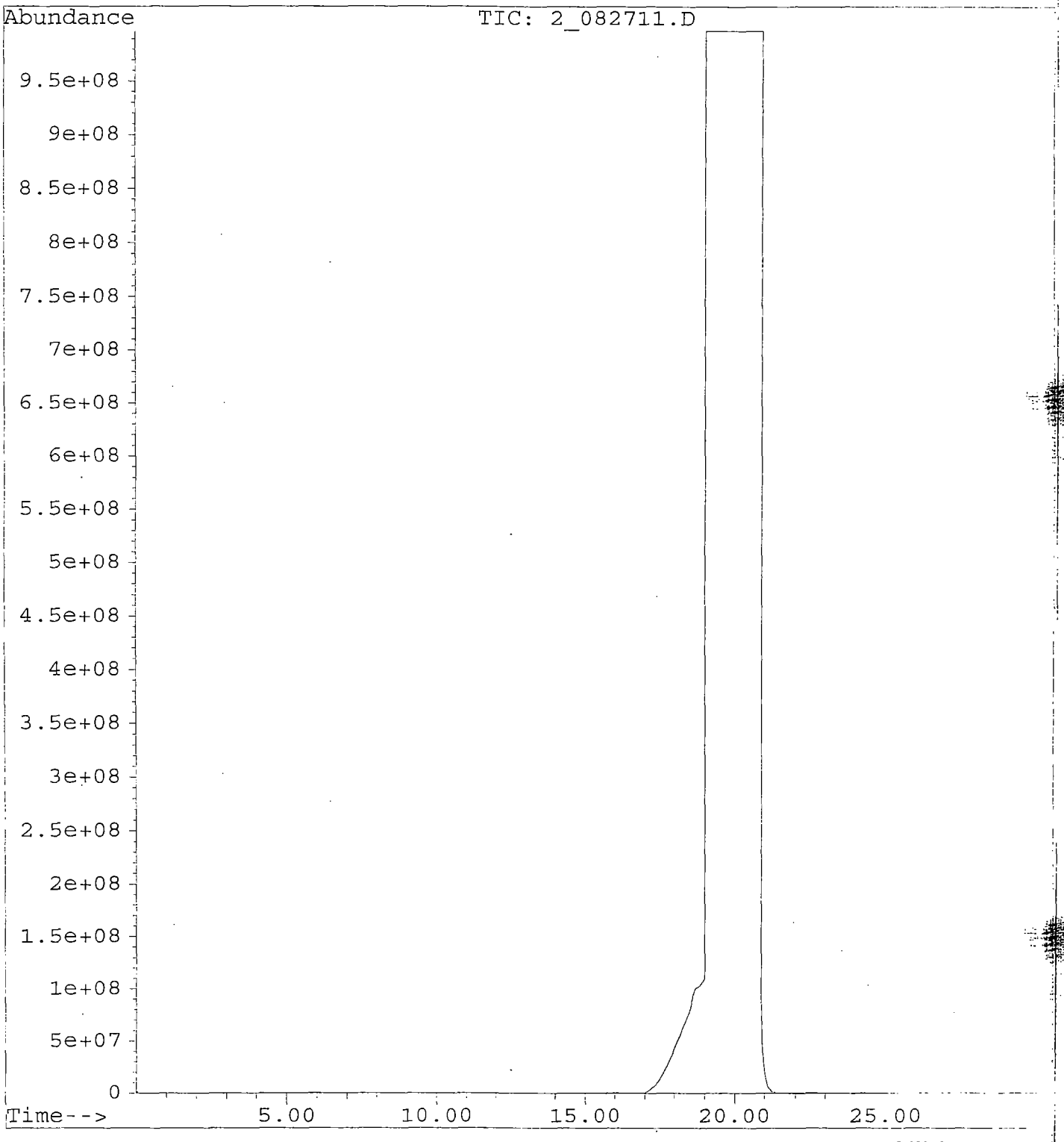
File : C:\HPCHEM\6\DATA\082701\2_082709.D
Operator : CR COL# 364134
Acquired : 27 Aug 01 19:23 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: BB0823SB-EPA
Misc Info : COL# 364134
Vial Number: 9



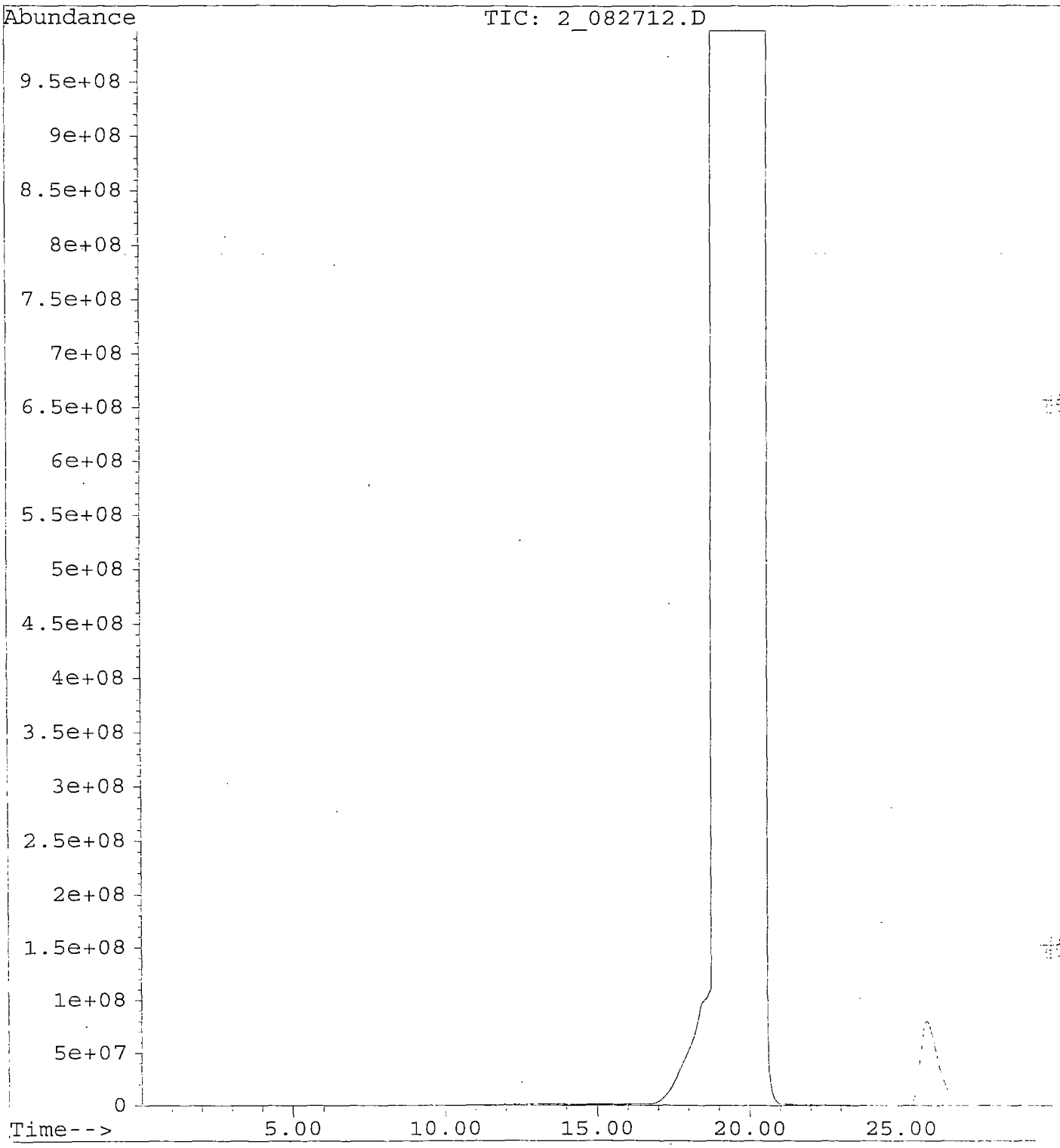
File : C:\HPCHEM\6\DATA\082701\2_082710.D
Operator : CR COL# 364134
Acquired : 27 Aug 01 19:54 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: LC0823SB-EPA
Misc Info : COL# 364134
Vial Number: 10



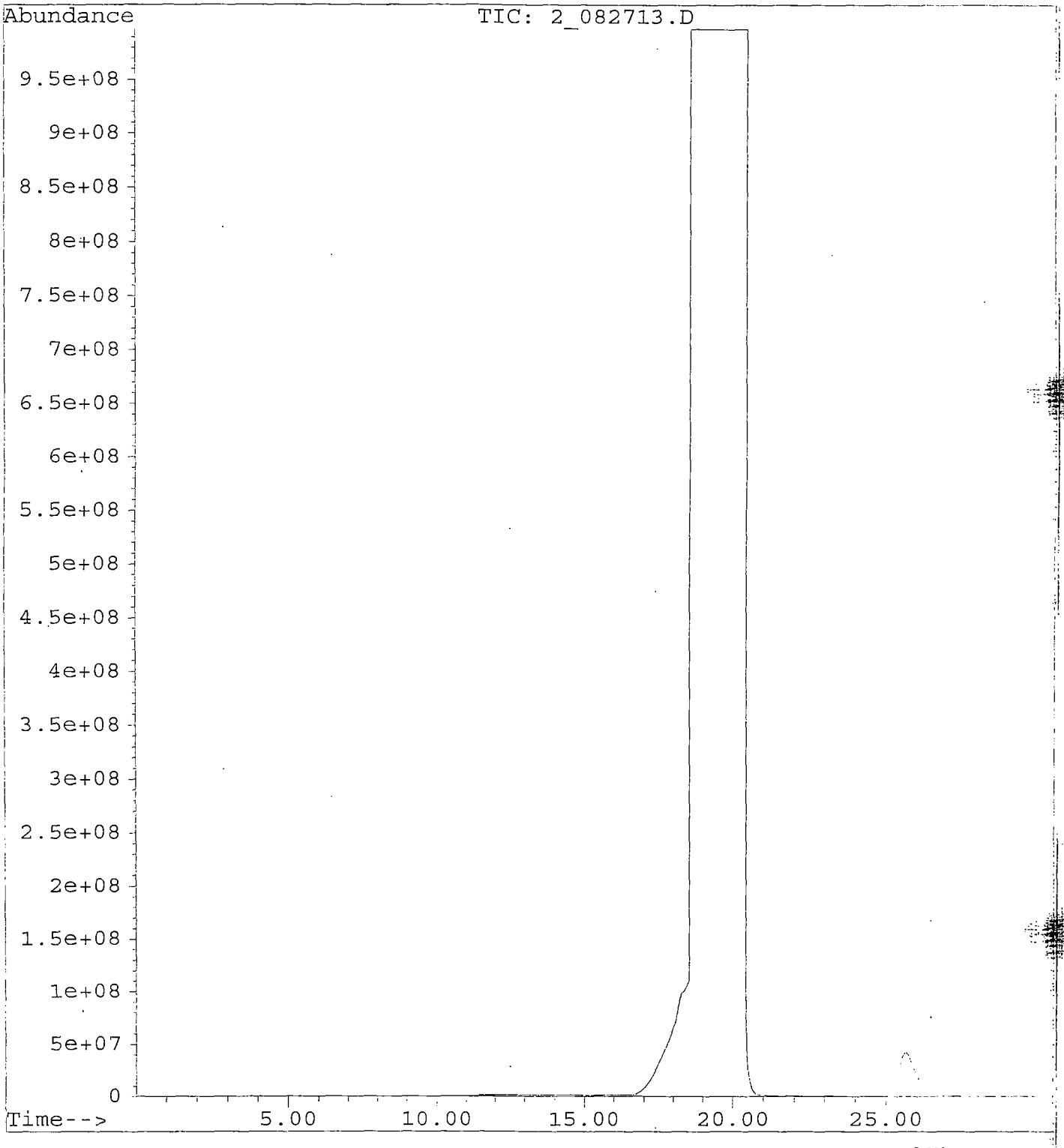
File : C:\HPCHEM\6\DATA\082701\2_082711.D
Operator : CR COL# 364134
Acquired : 27 Aug 01 20:25 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: LD0823SB-EPA
Misc Info : COL# 364134
Vial Number: 11



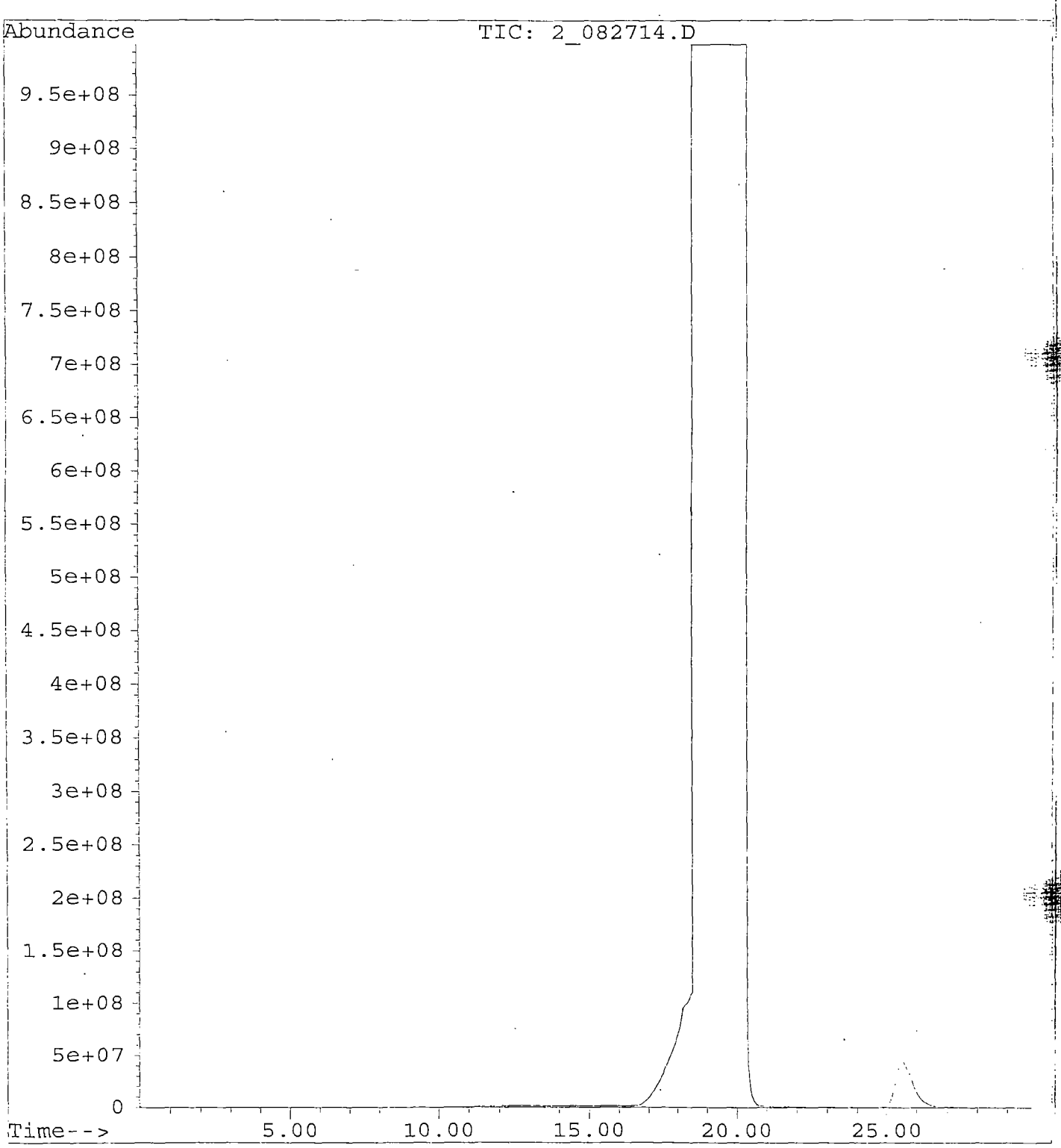
File : C:\HPCHEM\6\DATA\082701\2_082712.D
Operator : CR COL# 364134
Acquired : 27 Aug 01 20:56 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47348.14-E03E0-EPA
Misc Info : COL# 364134
Vial Number: 12



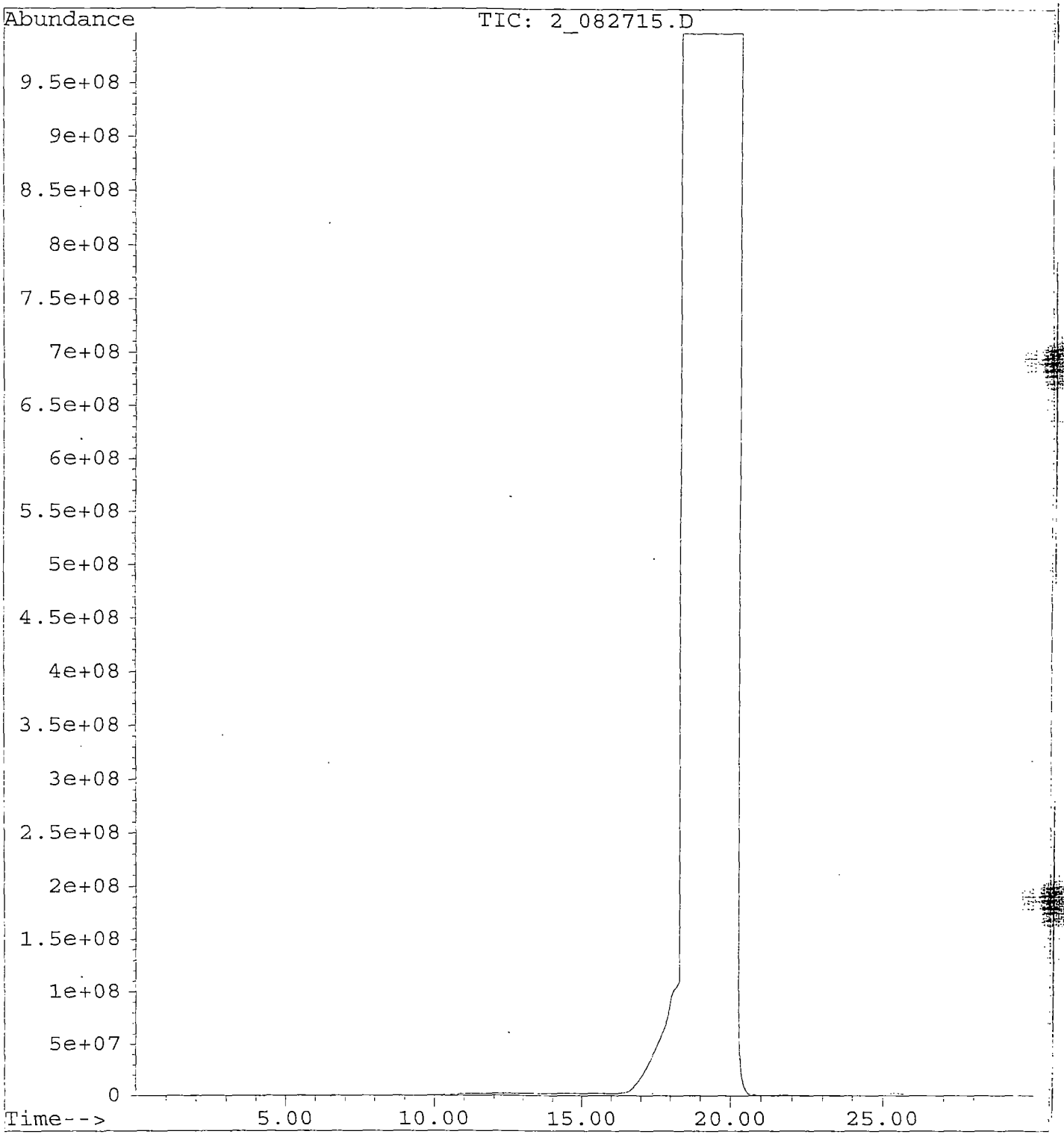
File : C:\HPCHEM\6\DATA\082701\2_082713.D
Operator : CR COL# 364134
Acquired : 27 Aug 01 21:27 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47348.15-E03E1-EPA
Misc Info : COL# 364134
Vial Number: 13



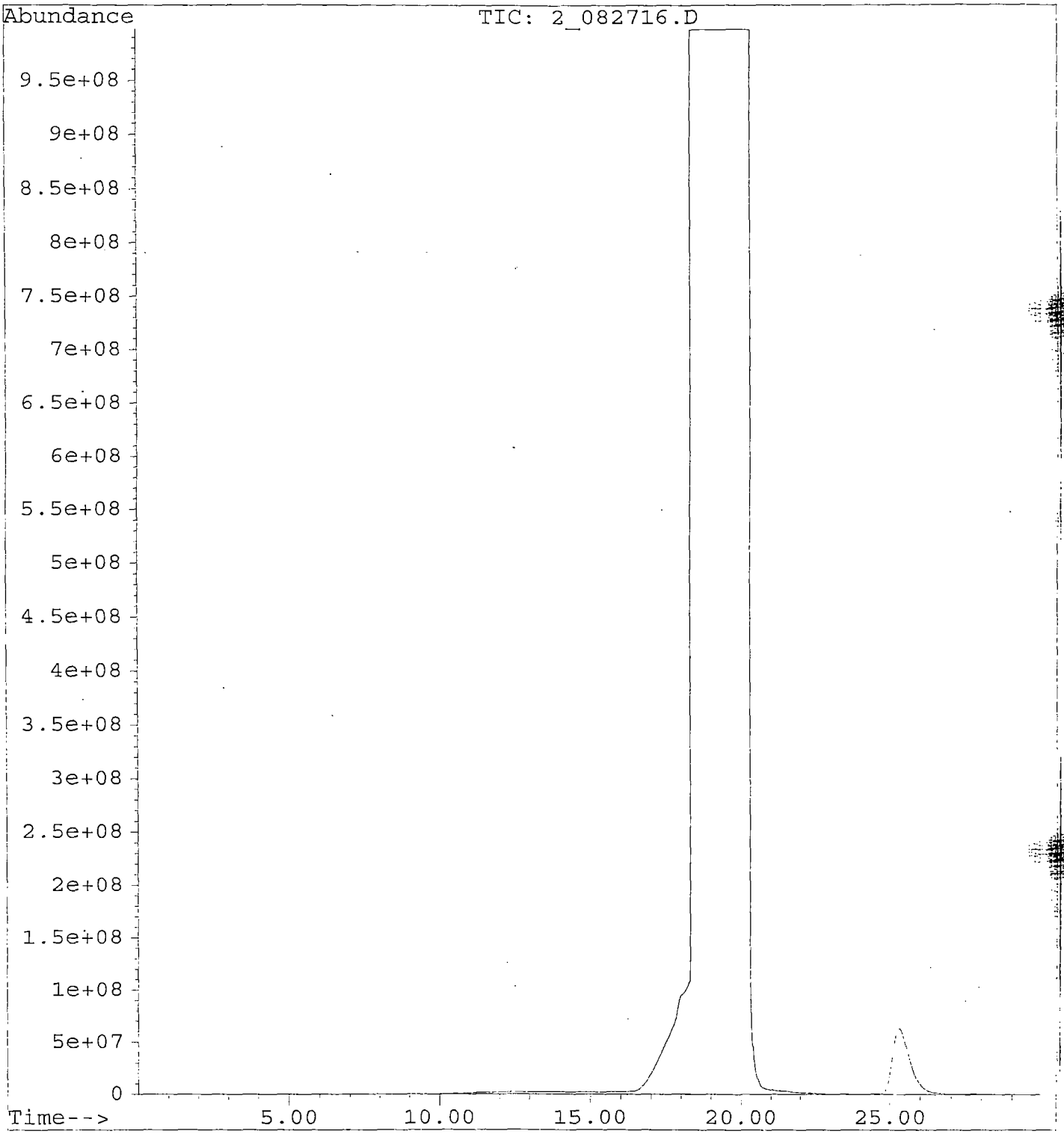
File : C:\HPCHEM\6\DATA\082701\2_082714.D
Operator : CR COL# 364134
Acquired : 27 Aug 01 21:58 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47348.16-E03E2-EPA
Misc Info : COL# 364134
Vial Number: 14



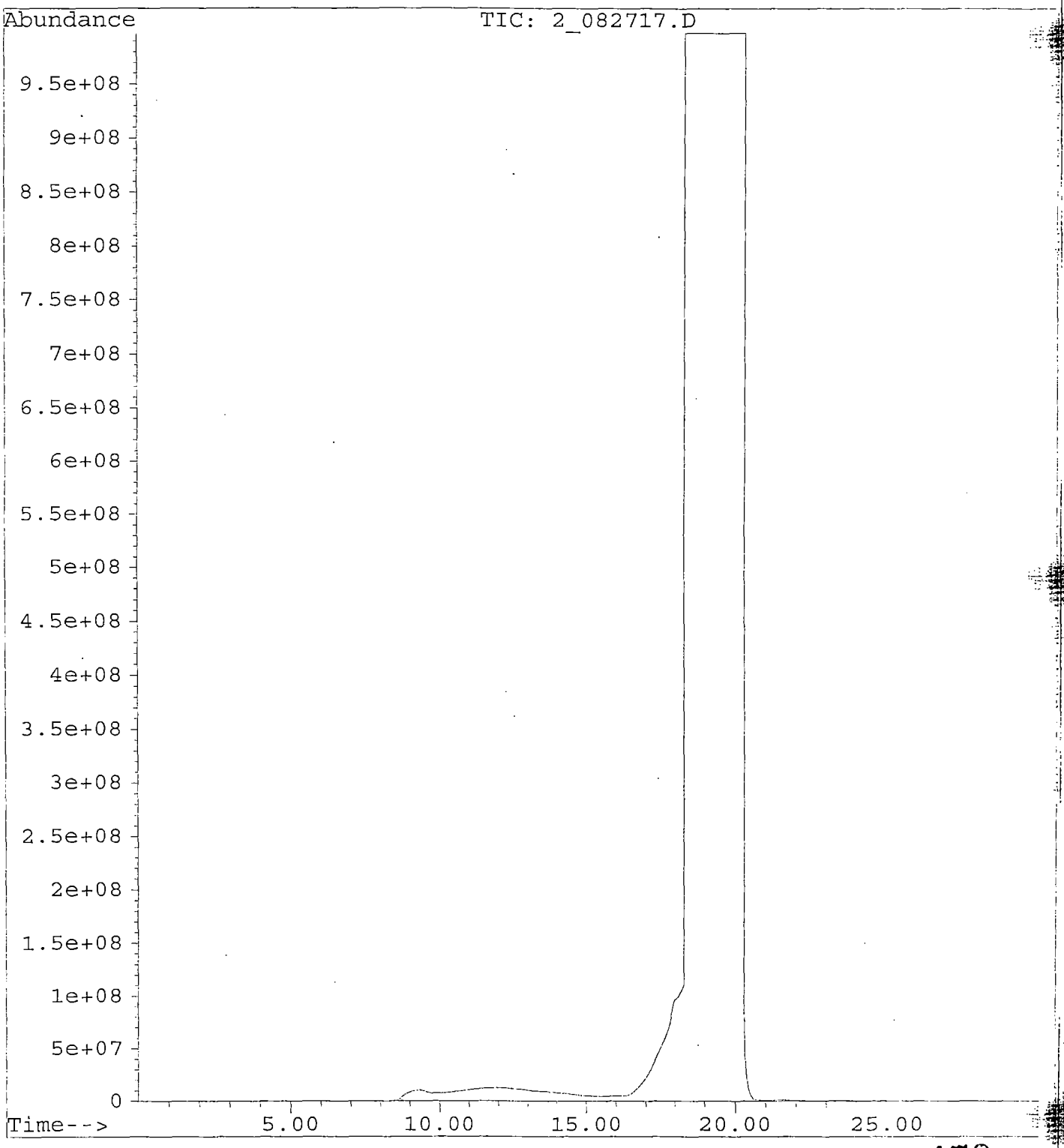
File : C:\HPCHEM\6\DATA\082701\2_082715.D
Operator : CR COL# 364134
Acquired : 27 Aug 01 22:30 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47348.21-E03E7-EPA
Misc Info : COL# 364134
Vial Number: 15



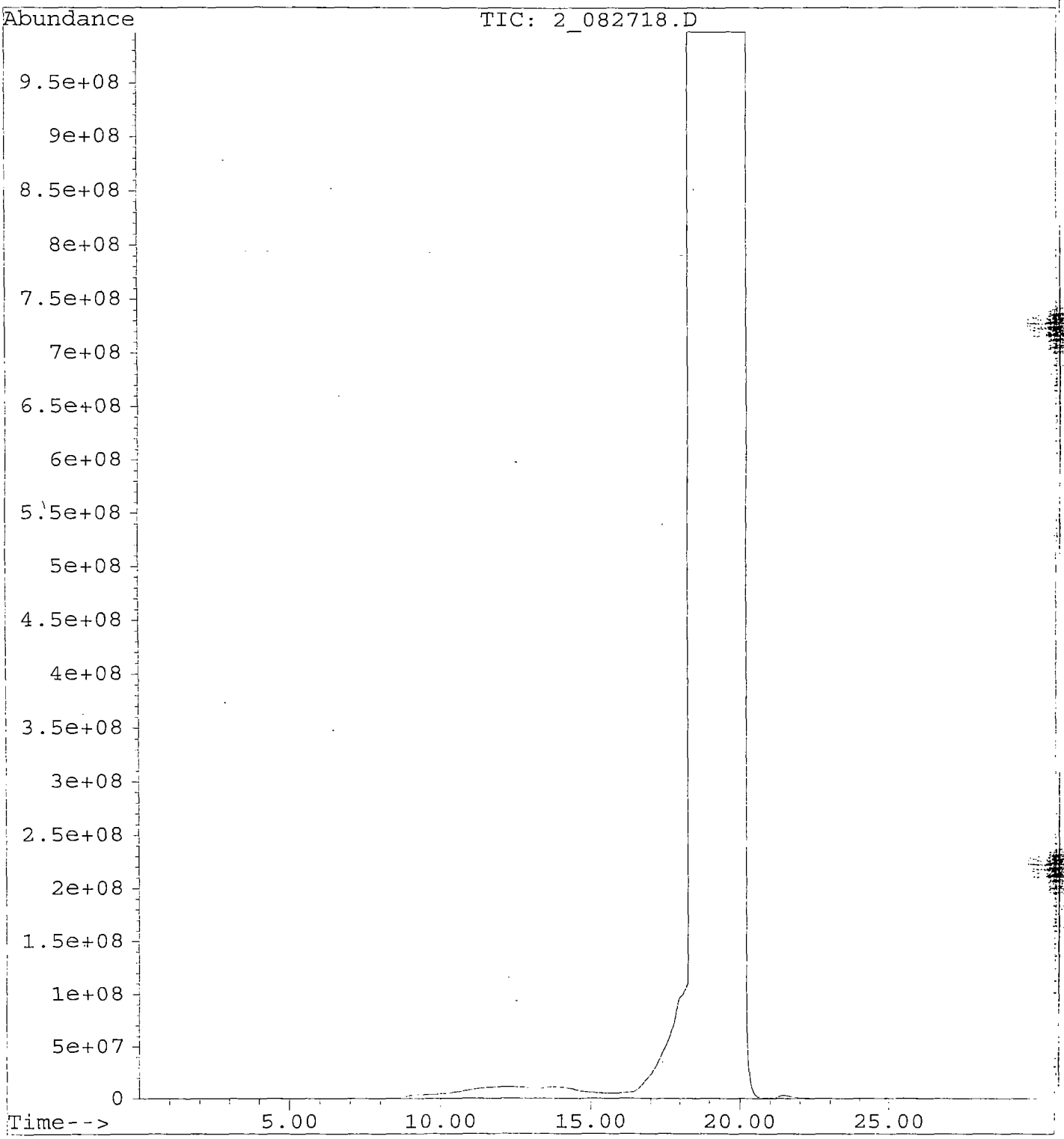
File : C:\HPCHEM\6\DATA\082701\2_082716.D
Operator : CR COL# 364134
Acquired : 27 Aug 01 23:01 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47348.13-E03D9-EPA
Misc Info : COL# 364134
Vial Number: 16



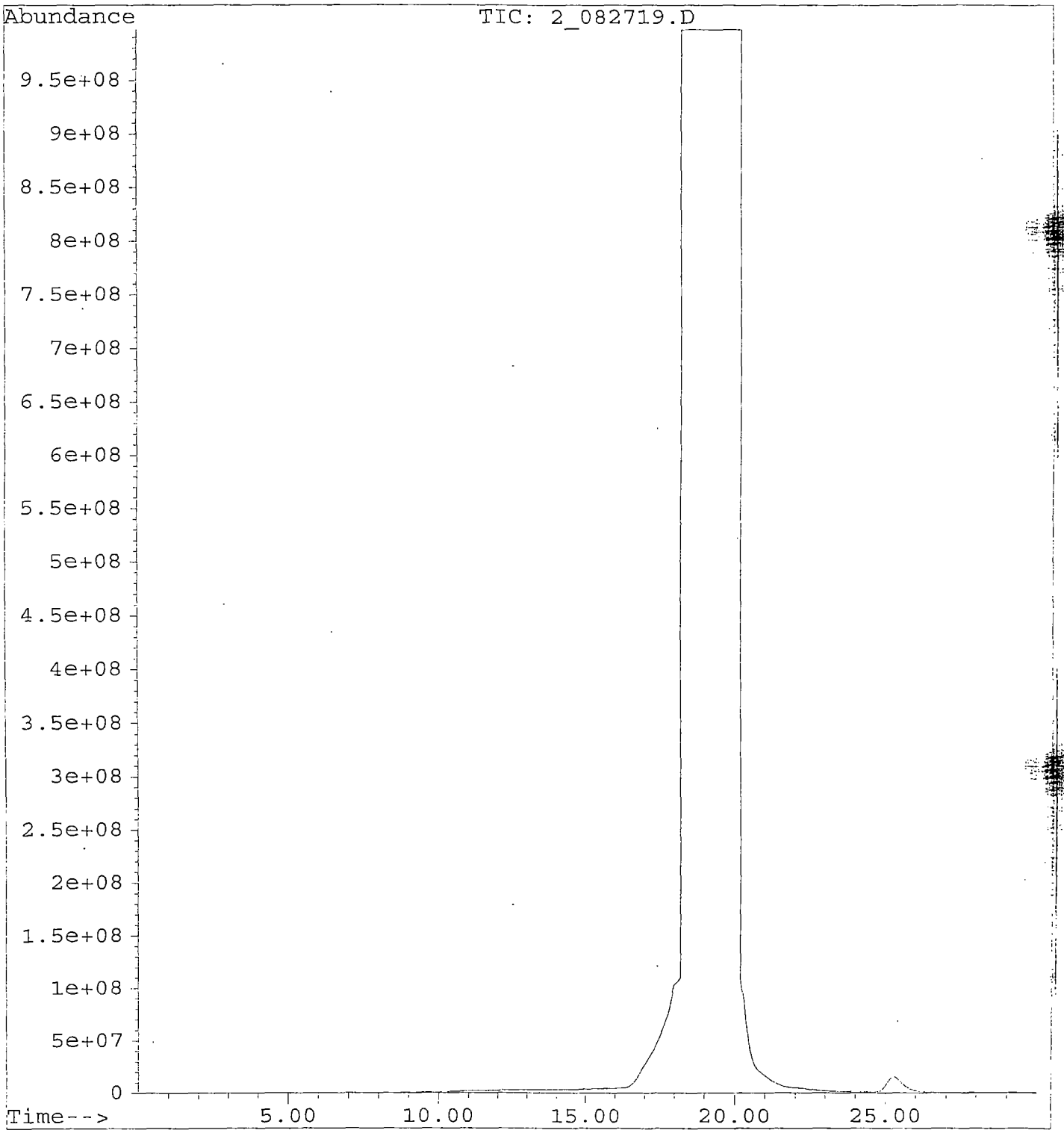
File : C:\HPCHEM\6\DATA\082701\2_082717.D
Operator : CR COL# 364134
Acquired : 27 Aug 01 23:32 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47348.22-E03E8-EPA
Misc Info : COL# 364134
Vial Number: 17



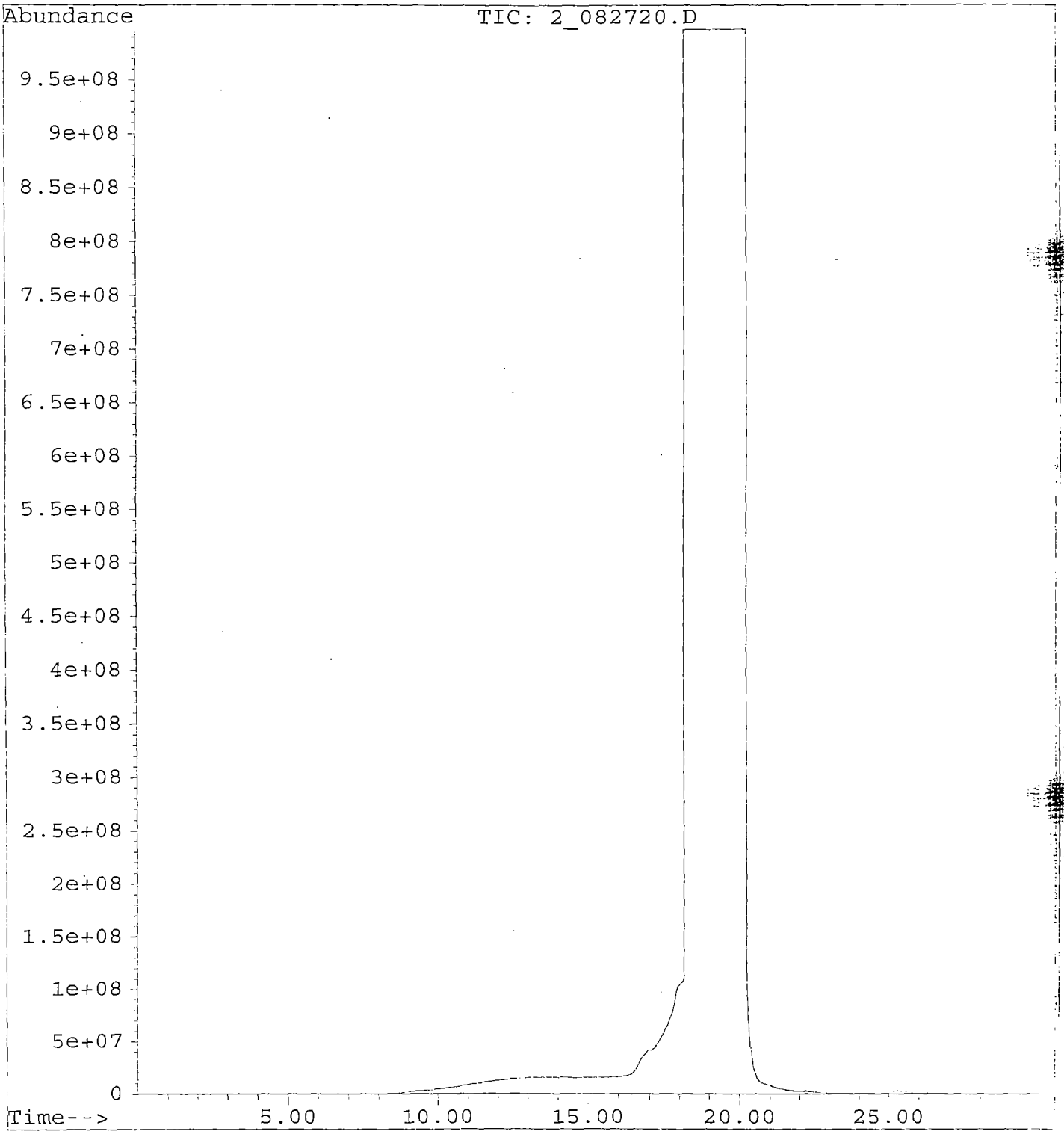
File : C:\HPCHEM\6\DATA\082701\2_082718.D
Operator : CR COL# 364134
Acquired : 28 Aug 01 00:03 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47348.20-E03E6-EPA
Misc Info : COL# 364134
Vial Number: 18



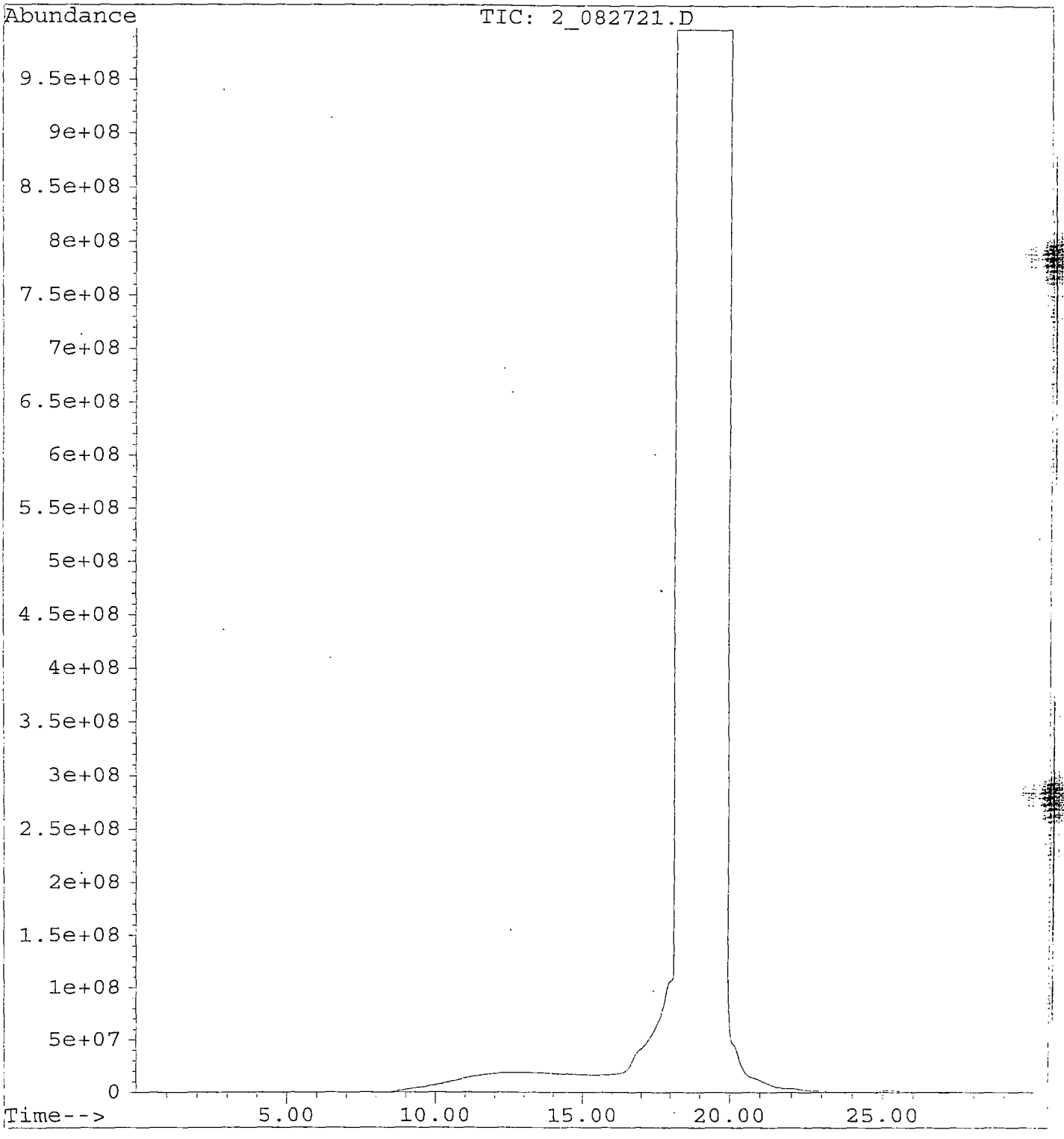
File : C:\HPCHEM\6\DATA\082701\2_082719.D
Operator : CR COL# 364134
Acquired : 28 Aug 01 00:34 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47348.17-E03E3-EPA
Misc Info : COL# 364134
Vial Number: 19



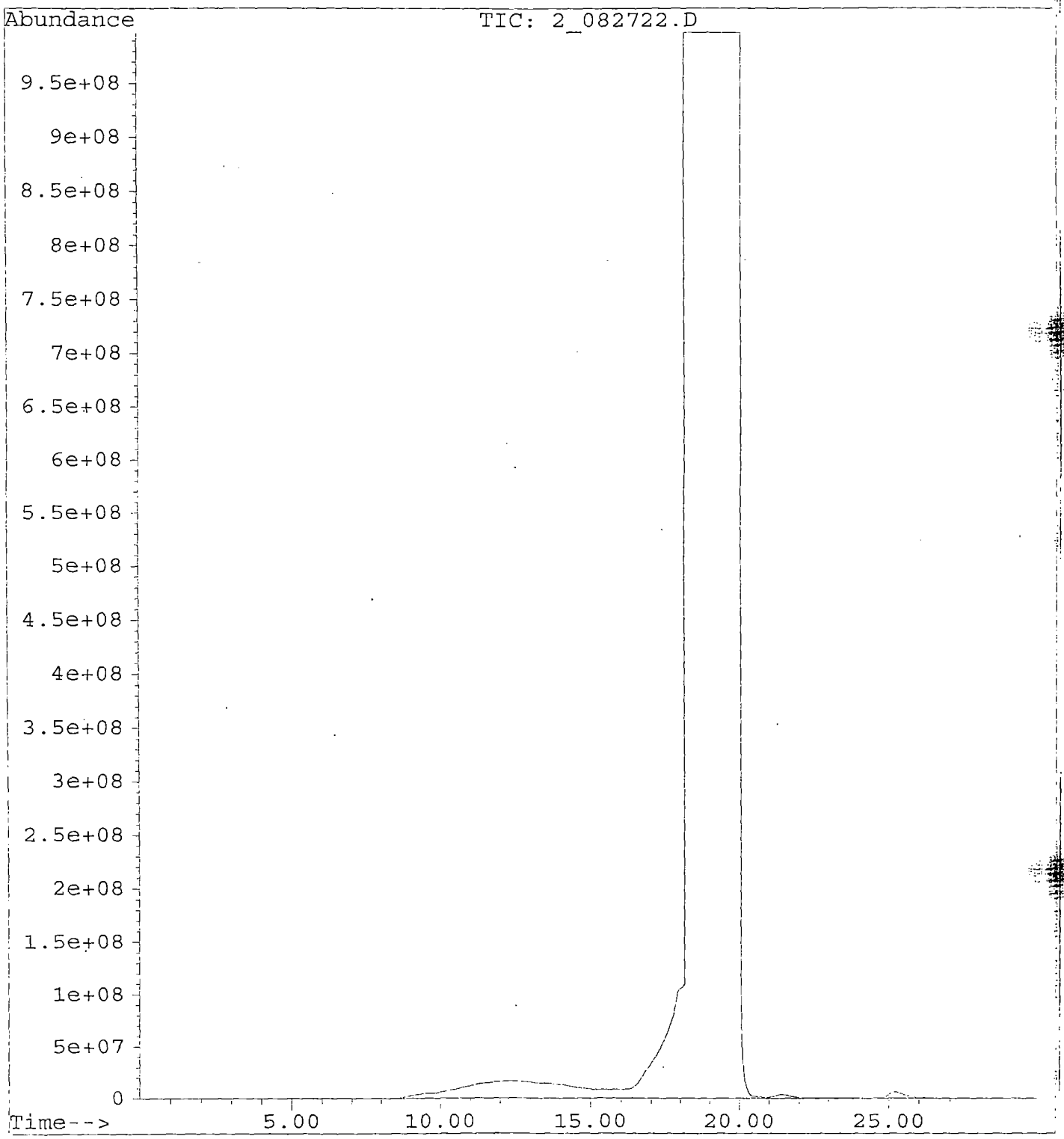
File : C:\HPCHEM\6\DATA\082701\2_082720.D
Operator : CR COL# 364134
Acquired : 28 Aug 01 01:05 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47348.12-E03D8-EPA
Misc Info : COL# 364134
Vial Number: 20



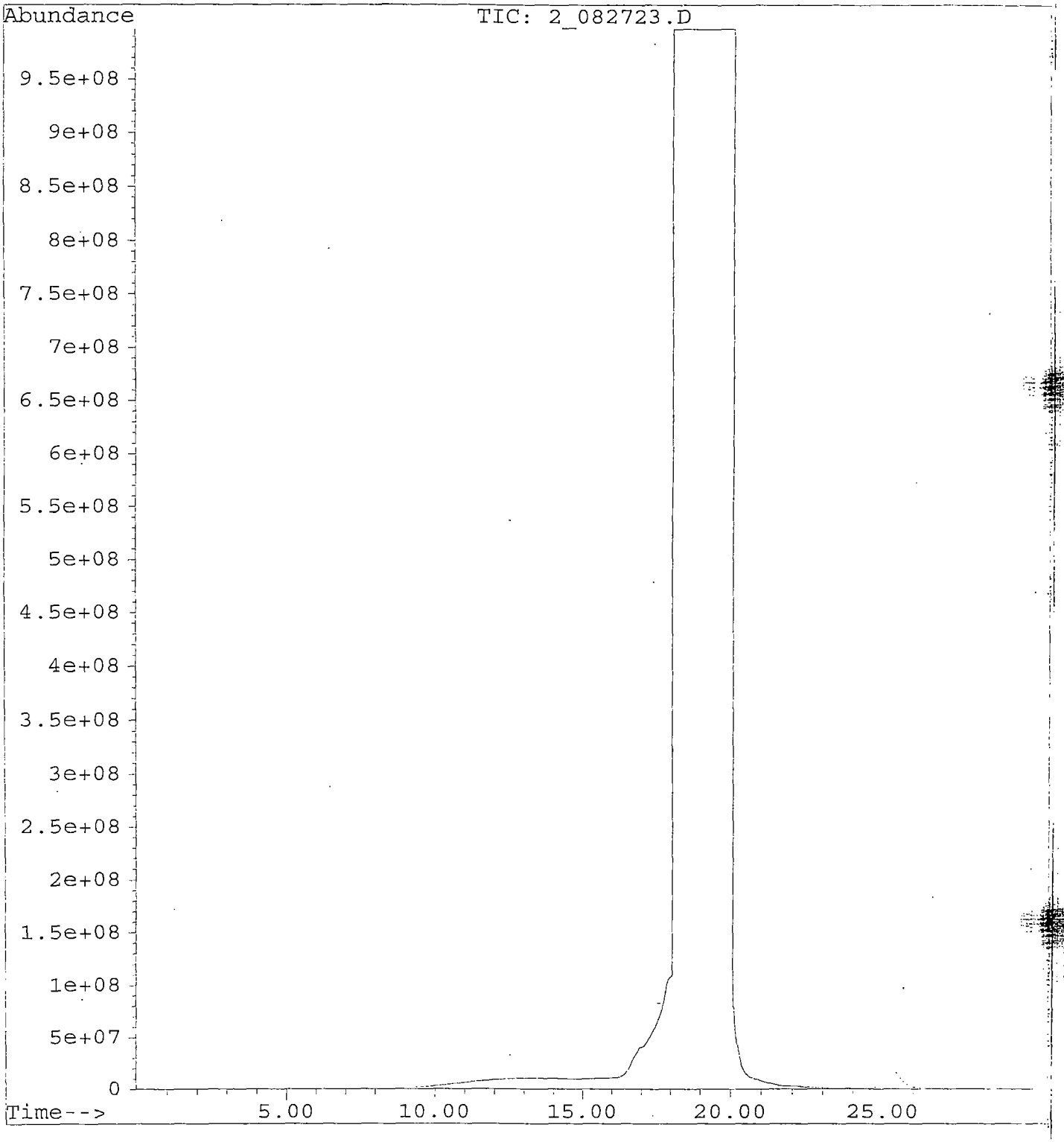
File : C:\HPCHEM\6\DATA\082701\2_082721.D
Operator : CR COL# 364134
Acquired : 28 Aug 01 01:36 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47348.10-E03D6-EPA
Misc Info : COL# 364134
Vial Number: 21



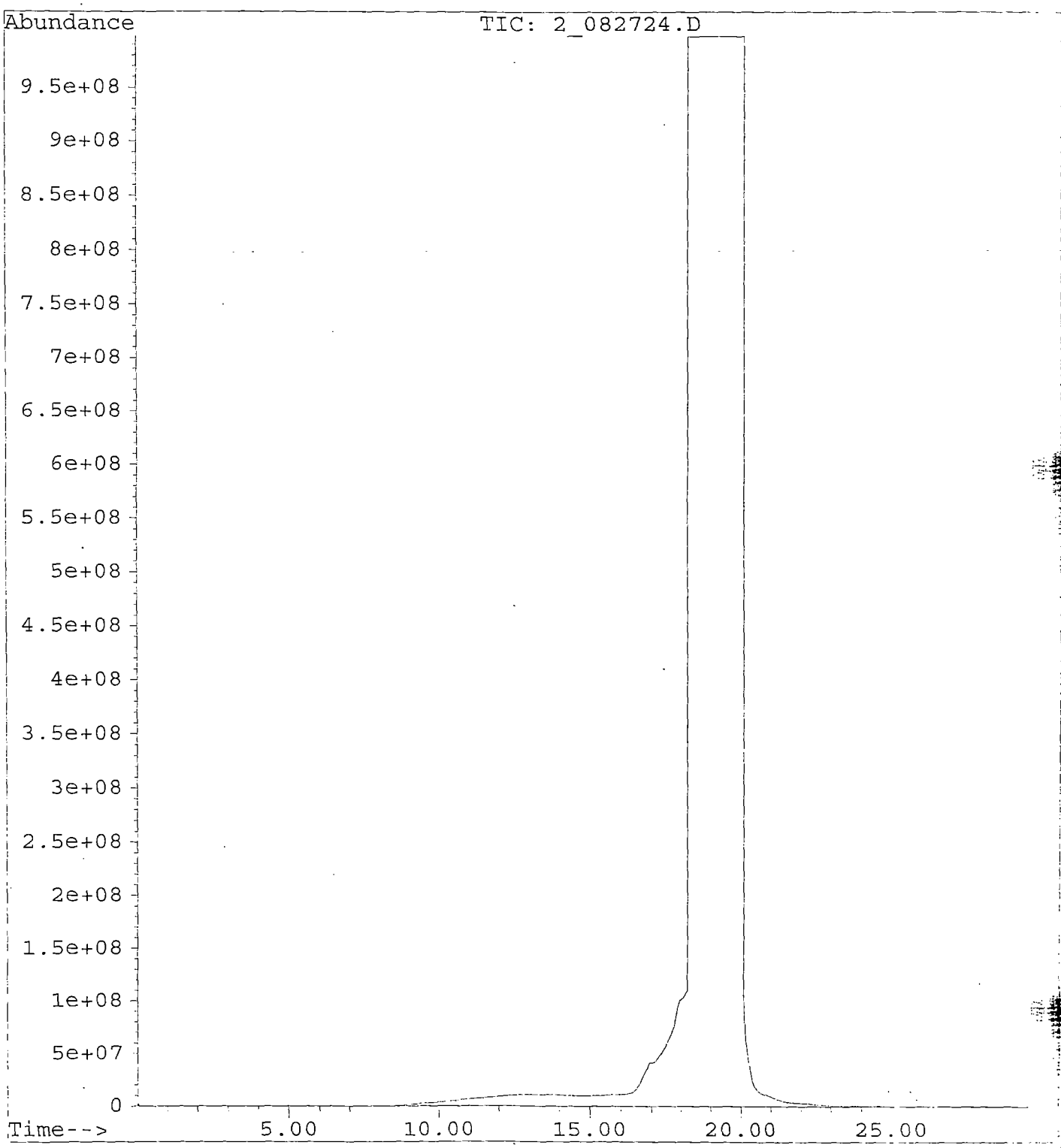
File : C:\HPCHEM\6\DATA\082701\2_082722.D
Operator : CR COL# 364134
Acquired : 28 Aug 01 02:07 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47348.19-E03E5-EPA
Misc Info : COL# 364134
Vial Number: 22



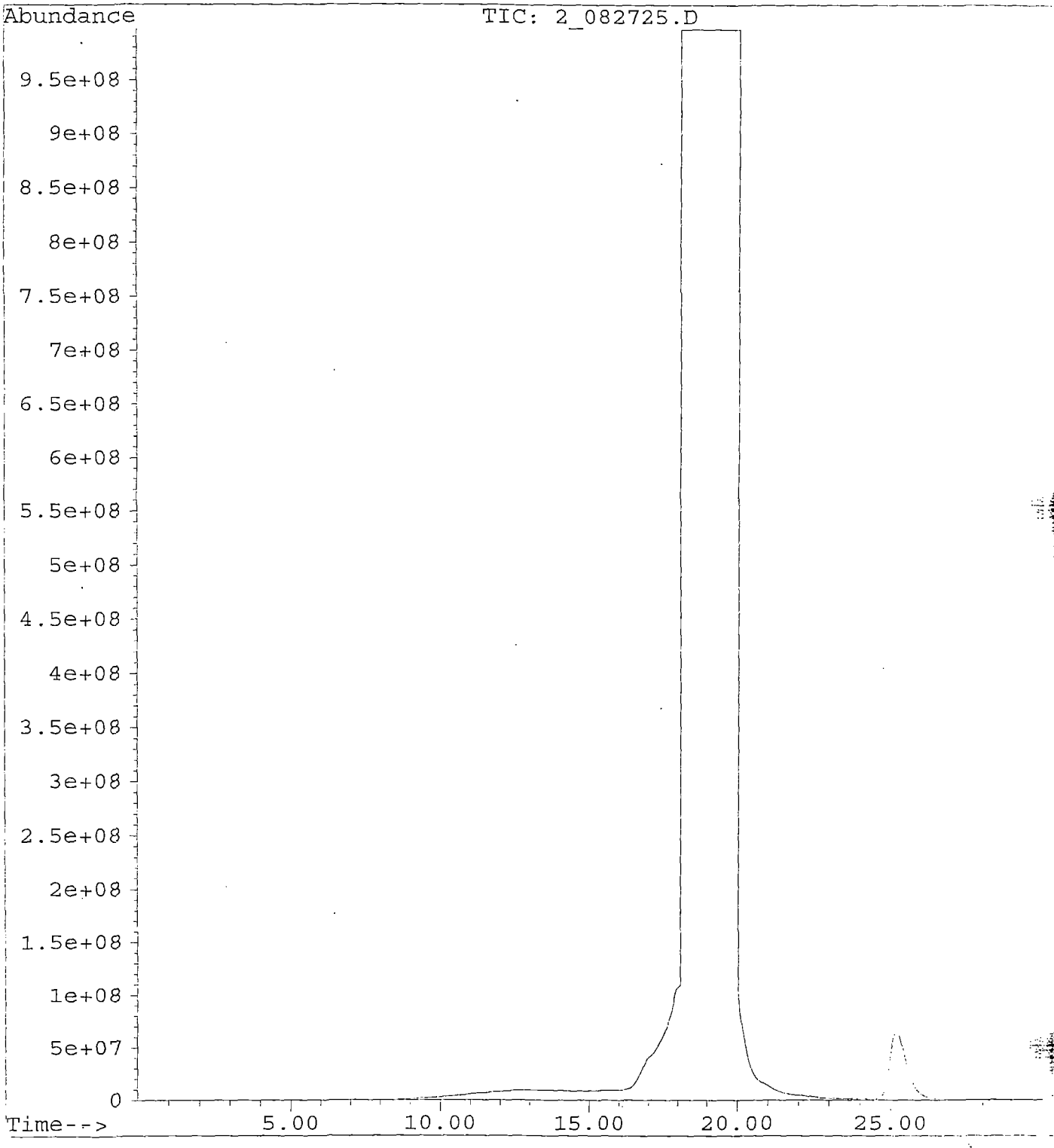
File : C:\HPCHEM\6\DATA\082701\2_082723.D
Operator : CR COL# 364134
Acquired : 28 Aug 01 02:38 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47348.07-E03D3-EPA
Misc Info : COL# 364134
Vial Number: 23



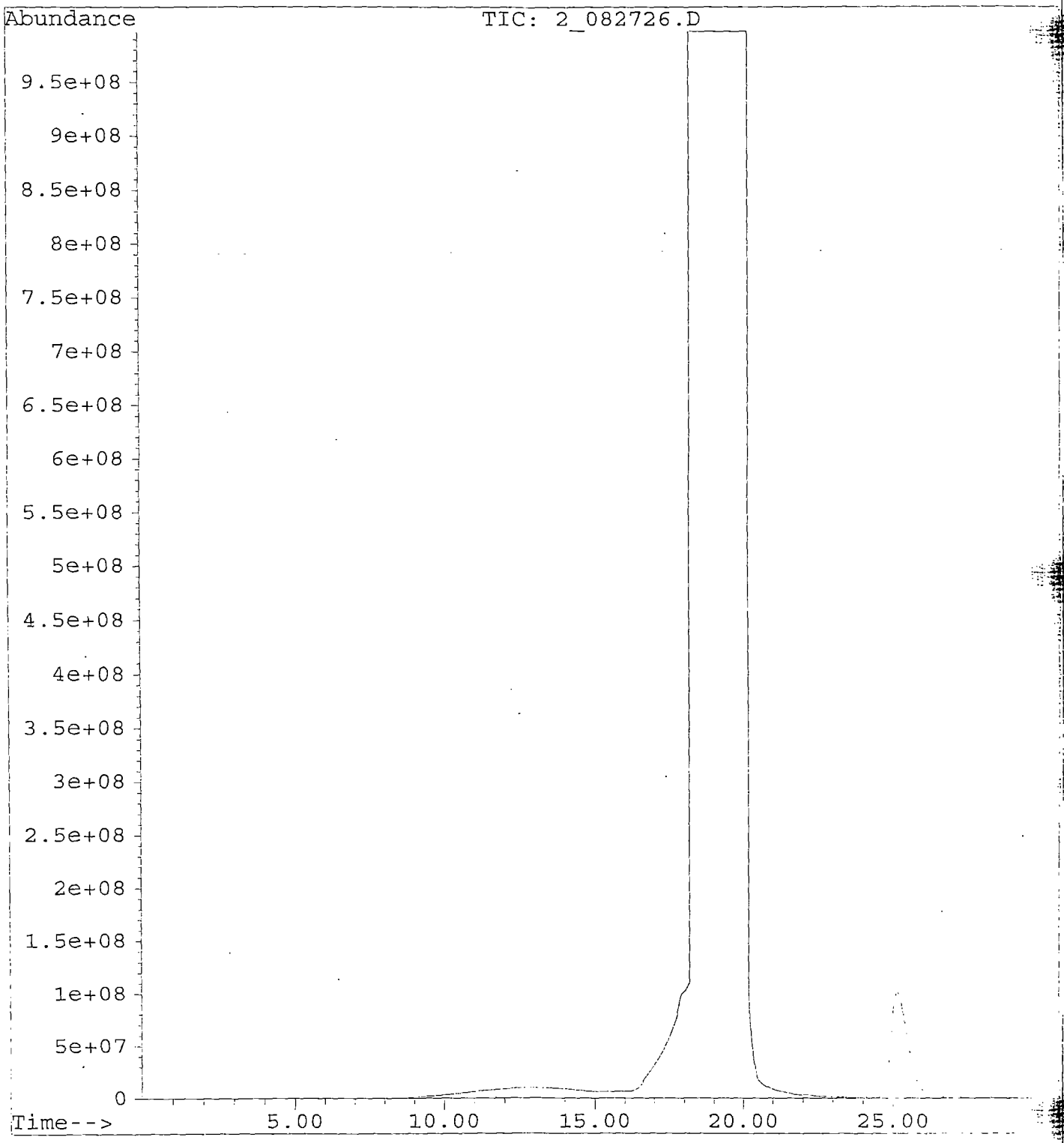
File : C:\HPCHEM\6\DATA\082701\2_082724.D
Operator : CR COL# 364134
Acquired : 28 Aug 01 03:09 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47348.08-E03D4-EPA
Misc Info : COL# 364134
Vial Number: 24



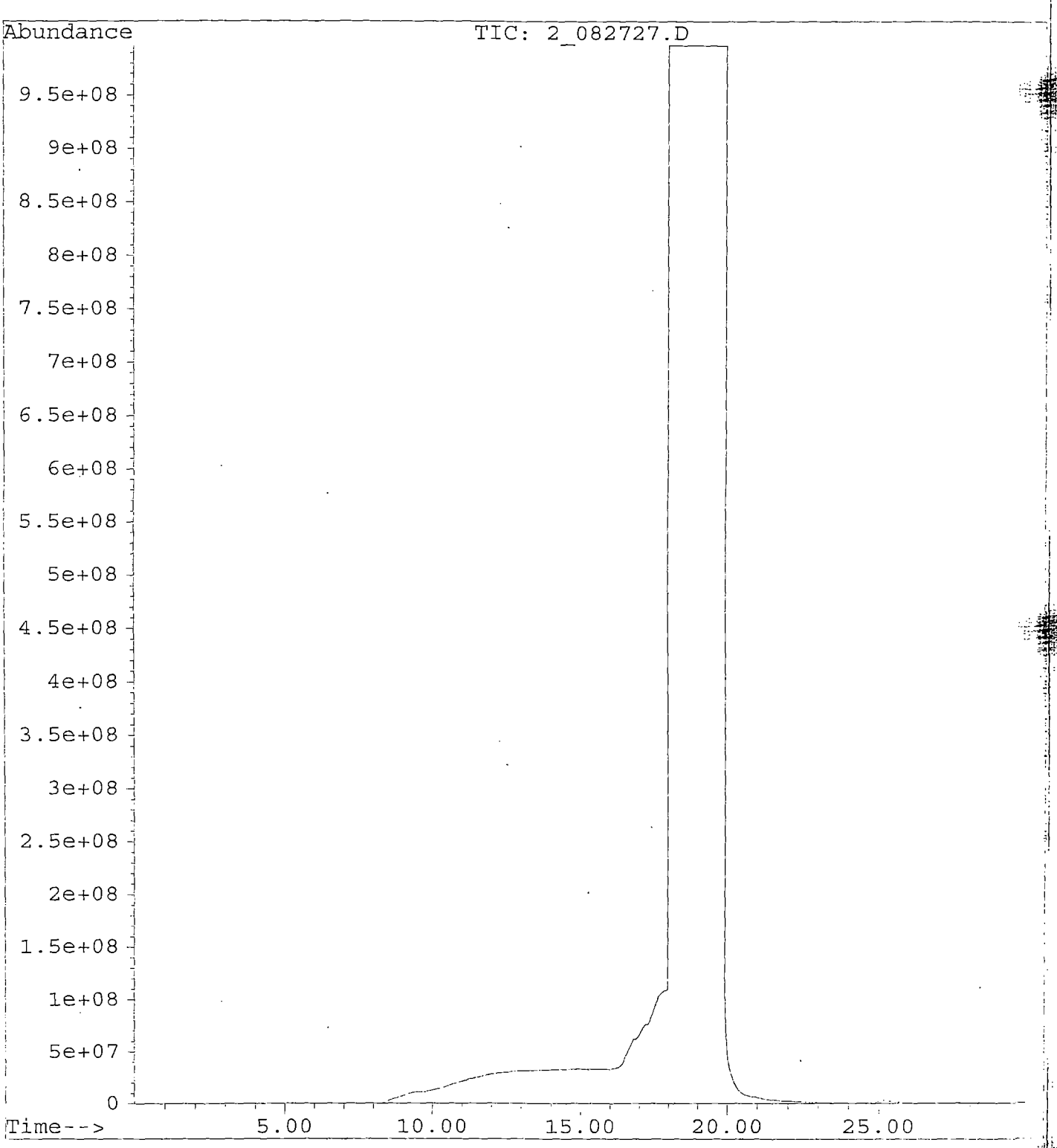
File : C:\HPCHEM\6\DATA\082701\2_082725.D
Operator : CR COL# 364134
Acquired : 28 Aug 01 03:41 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47348.09-E03D5-EPA
Misc Info : COL# 364134
Vial Number: 25



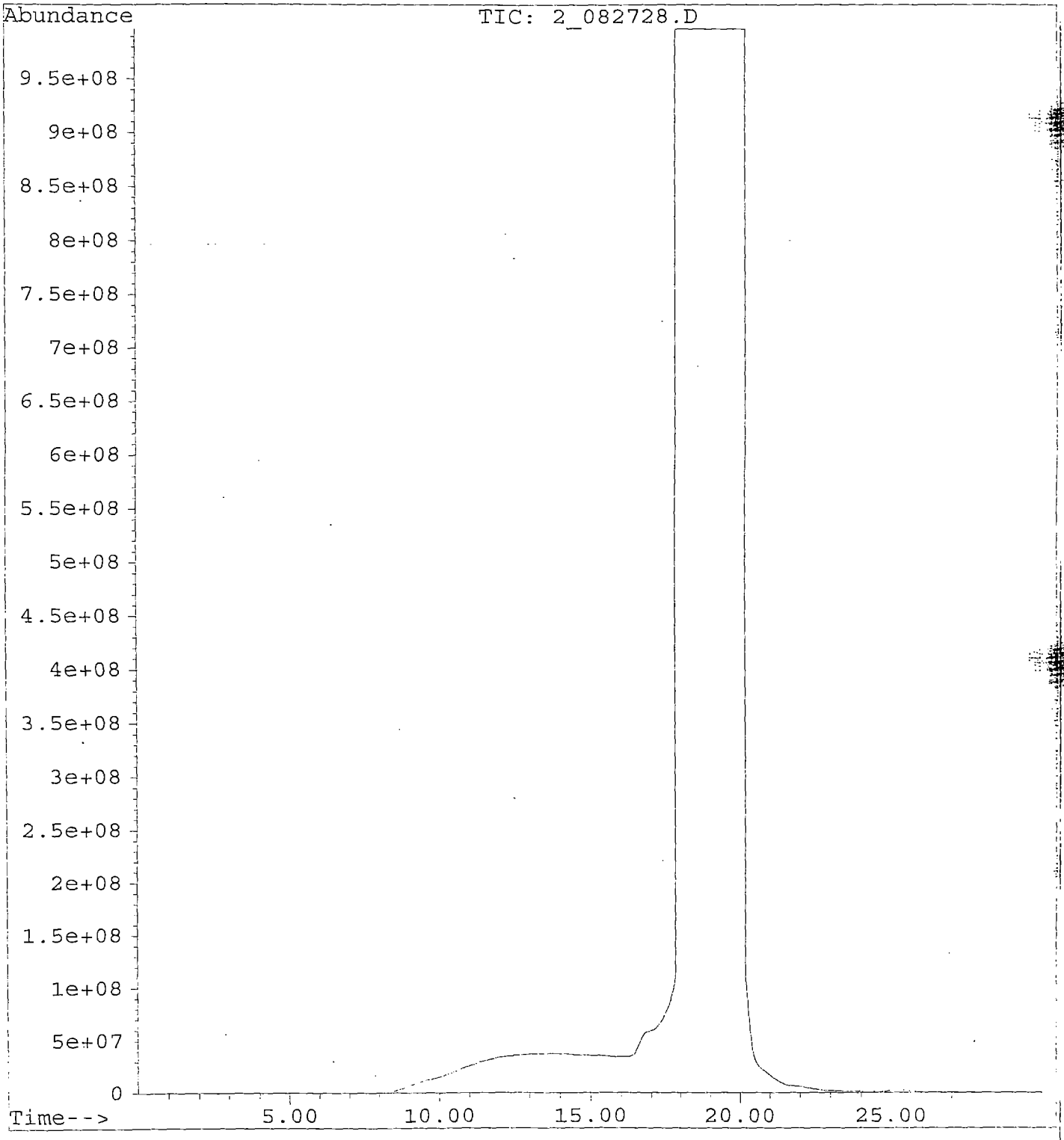
File : C:\HPCHEM\6\DATA\Q82701\2_082726.D
Operator : CR COL# 364134
Acquired : 28 Aug 01 04:12 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47348.18-E03E4-EPA
Misc Info : COL# 364134
Vial Number: 26



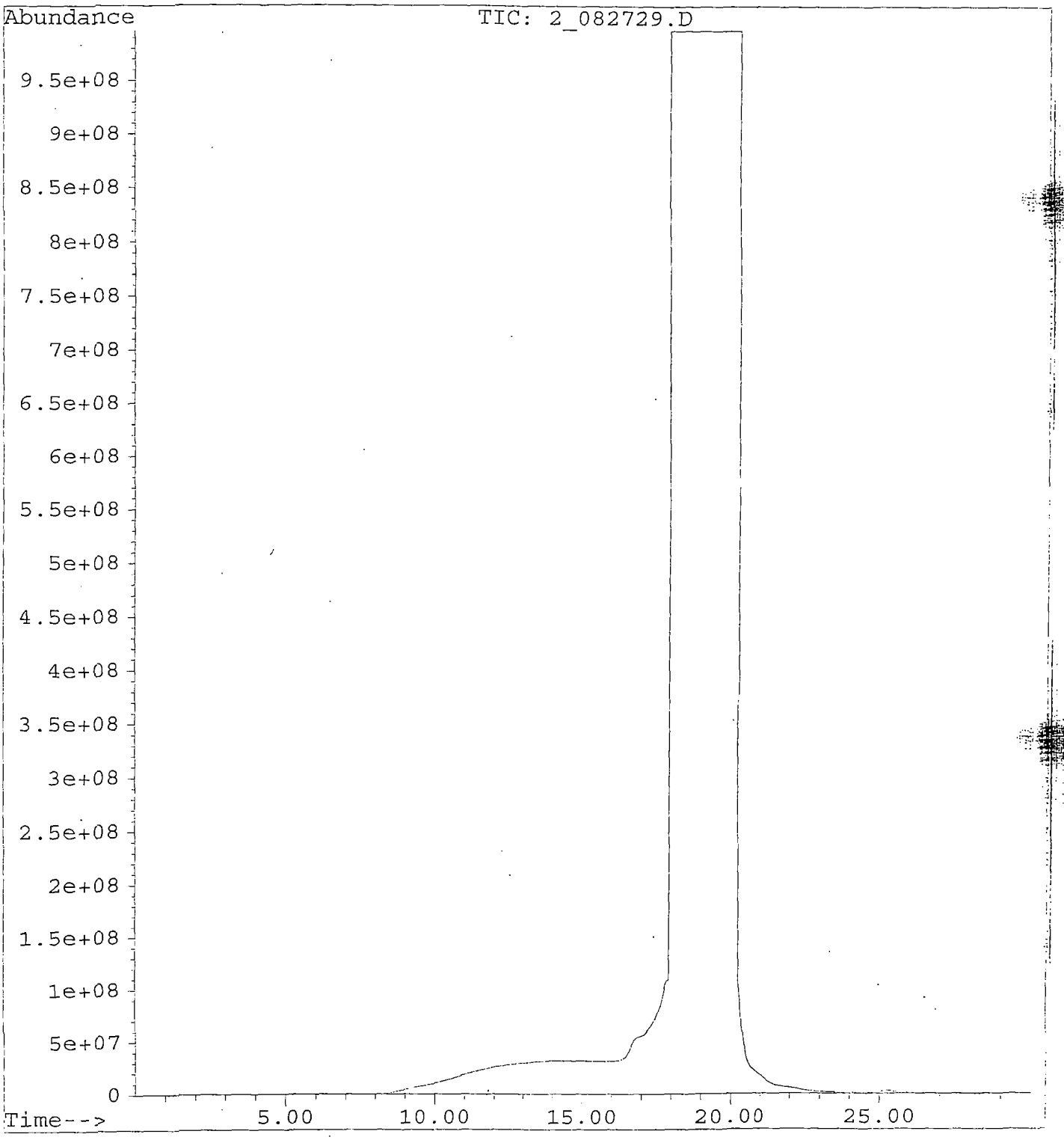
File : C:\HPCHEM\6\DATA\082701\2_082727.D
Operator : CR COL# 364134
Acquired : 28 Aug 01 04:43 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47348.11-E03D7-EPA
Misc Info : COL# 364134
Vial Number: 27



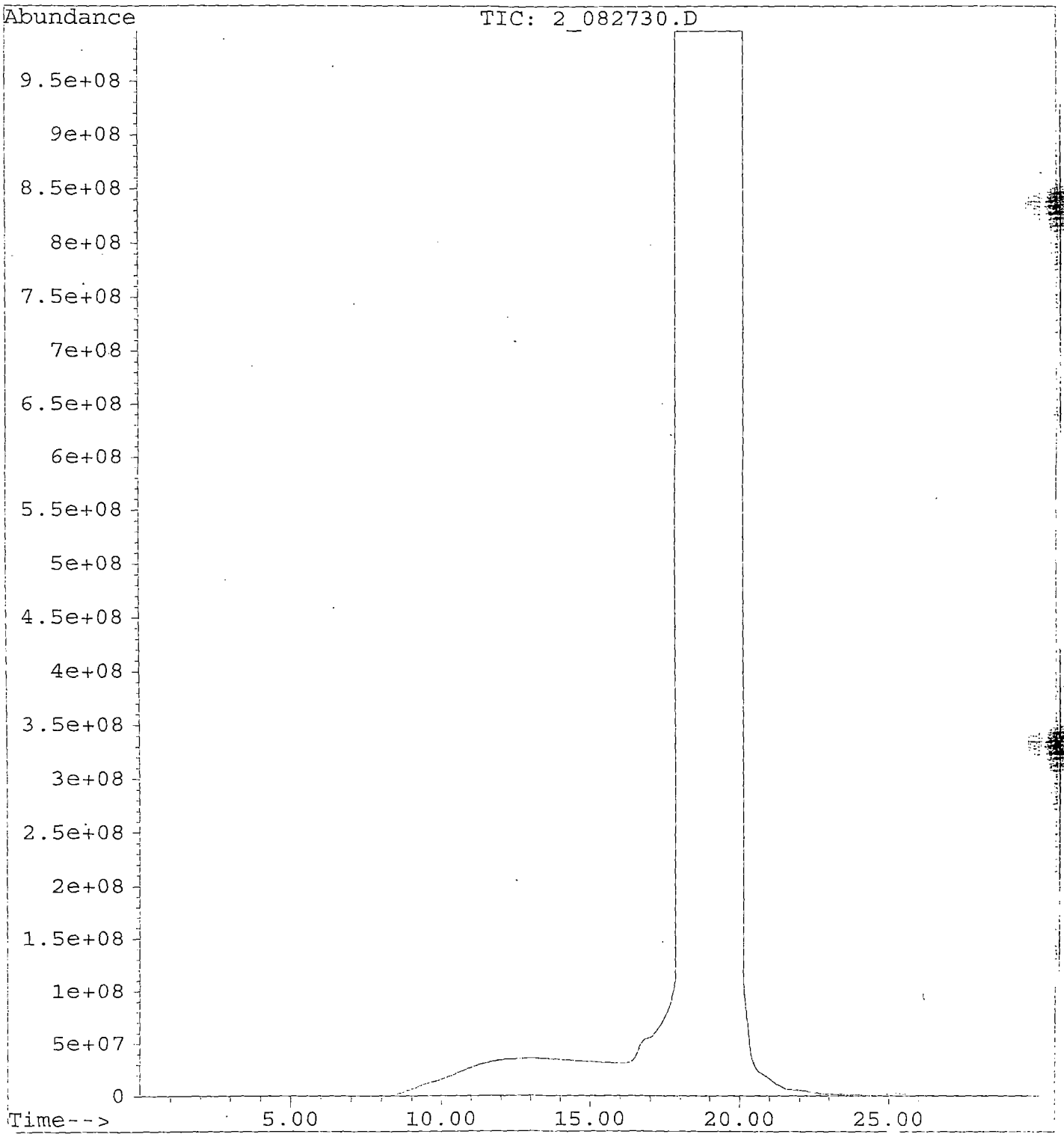
File : C:\HPCHEM\6\DATA\082701\2_082728.D
Operator : CR COL# 364134
Acquired : 28 Aug 01 05:14 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47348.01-E03C9-EPA
Misc Info : COL# 364134
Vial Number: 28



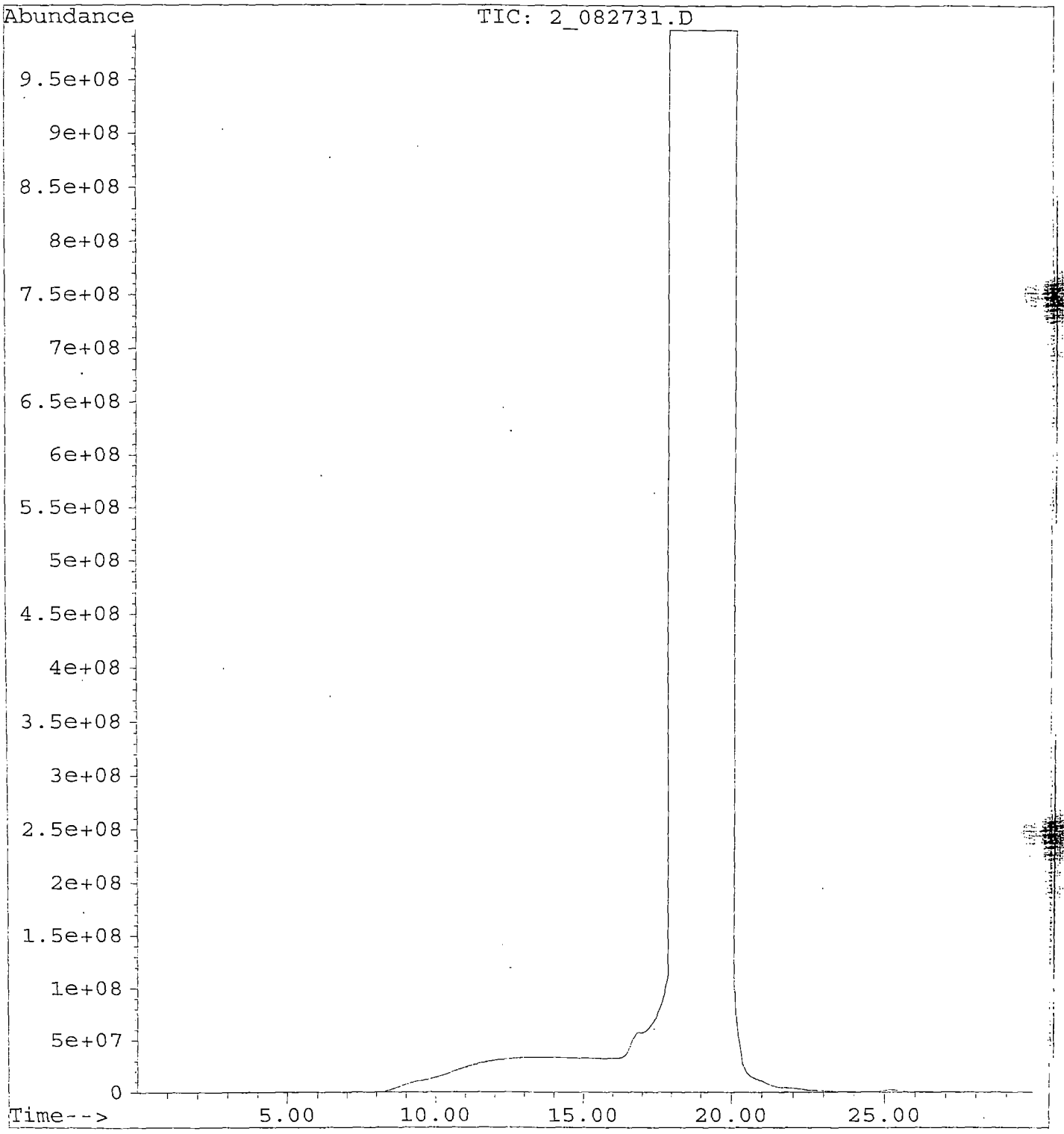
File : C:\HPCHEM\6\DATA\082701\2_082729.D
Operator : CR COL# 364134
Acquired : 28 Aug 01 05:45 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47348.02-MS-E03C9-EPA
Misc Info : COL# 364134
Vial Number: 29



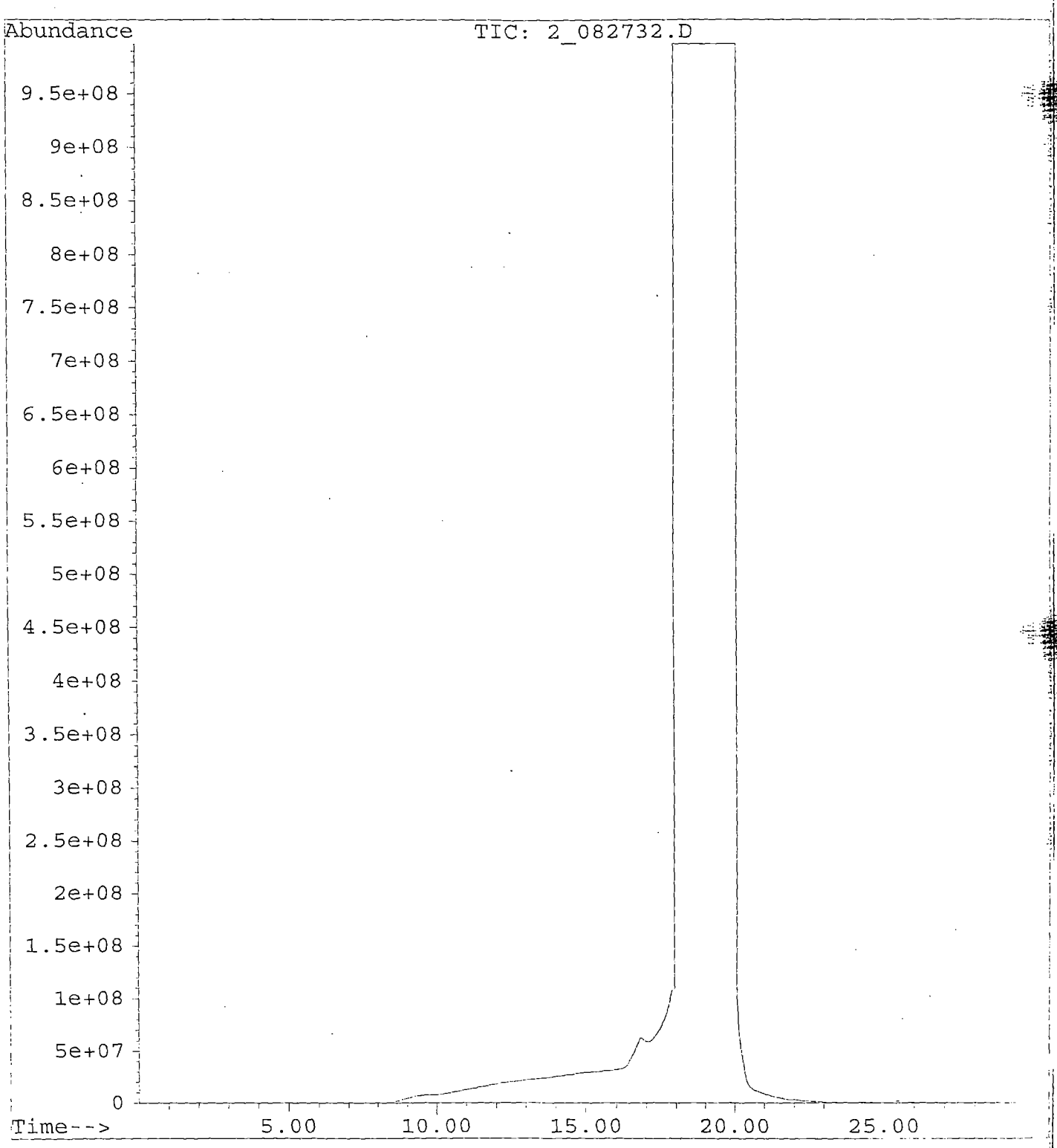
File : C:\HPCHEM\6\DATA\082701\2_082730.D
Operator : CR COL# 364134
Acquired : 28 Aug 01 06:16 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47348.03-MSD-E03C9-EPA
Misc Info : COL# 364134
Vial Number: 30



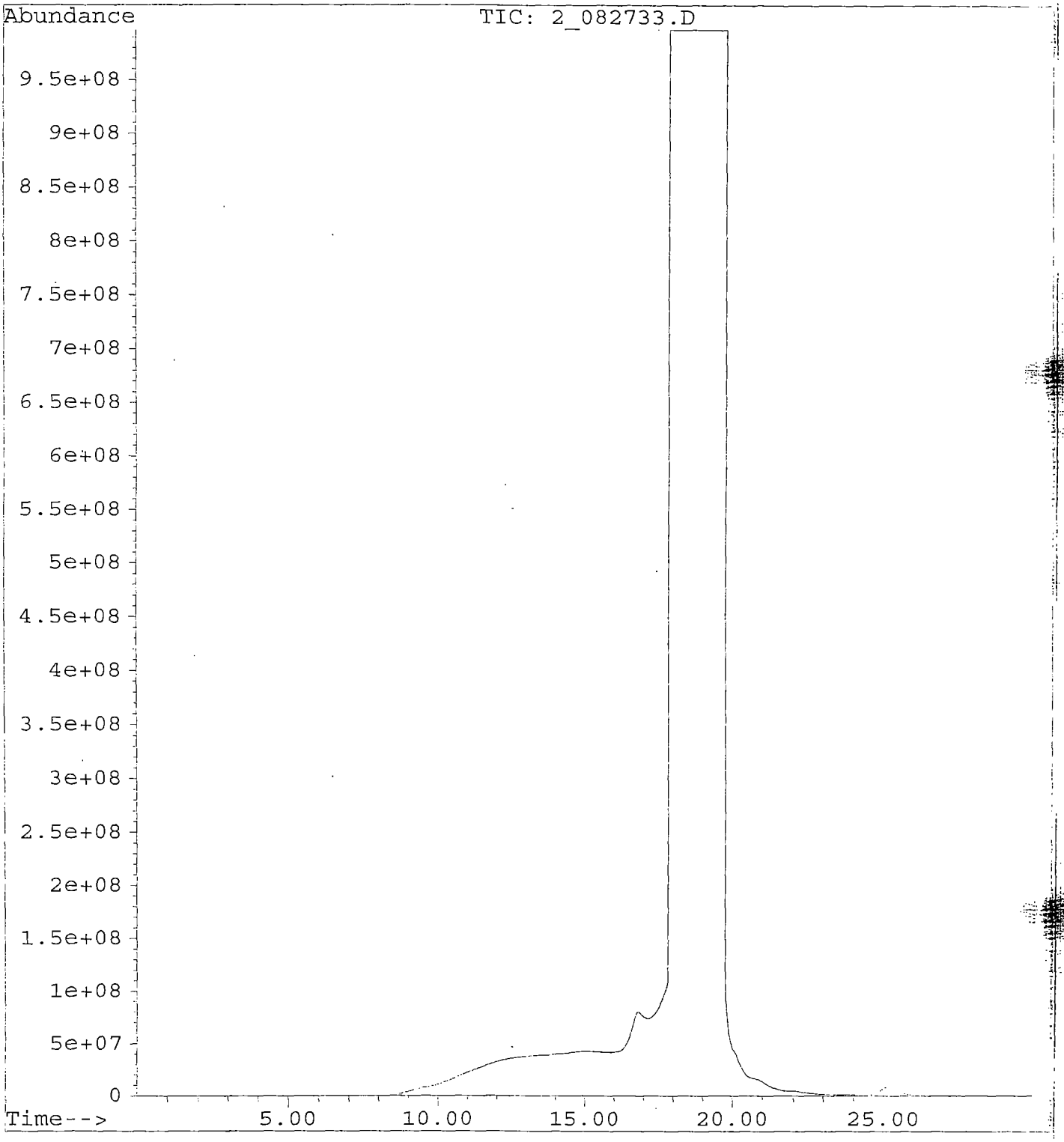
File : C:\HPCHEM\6\DATA\082701\2_082731.D
Operator : CR COL# 364134
Acquired : 28 Aug 01 06:47 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47348.04-E03D0-EPA
Misc Info : COL# 364134
Vial Number: 31



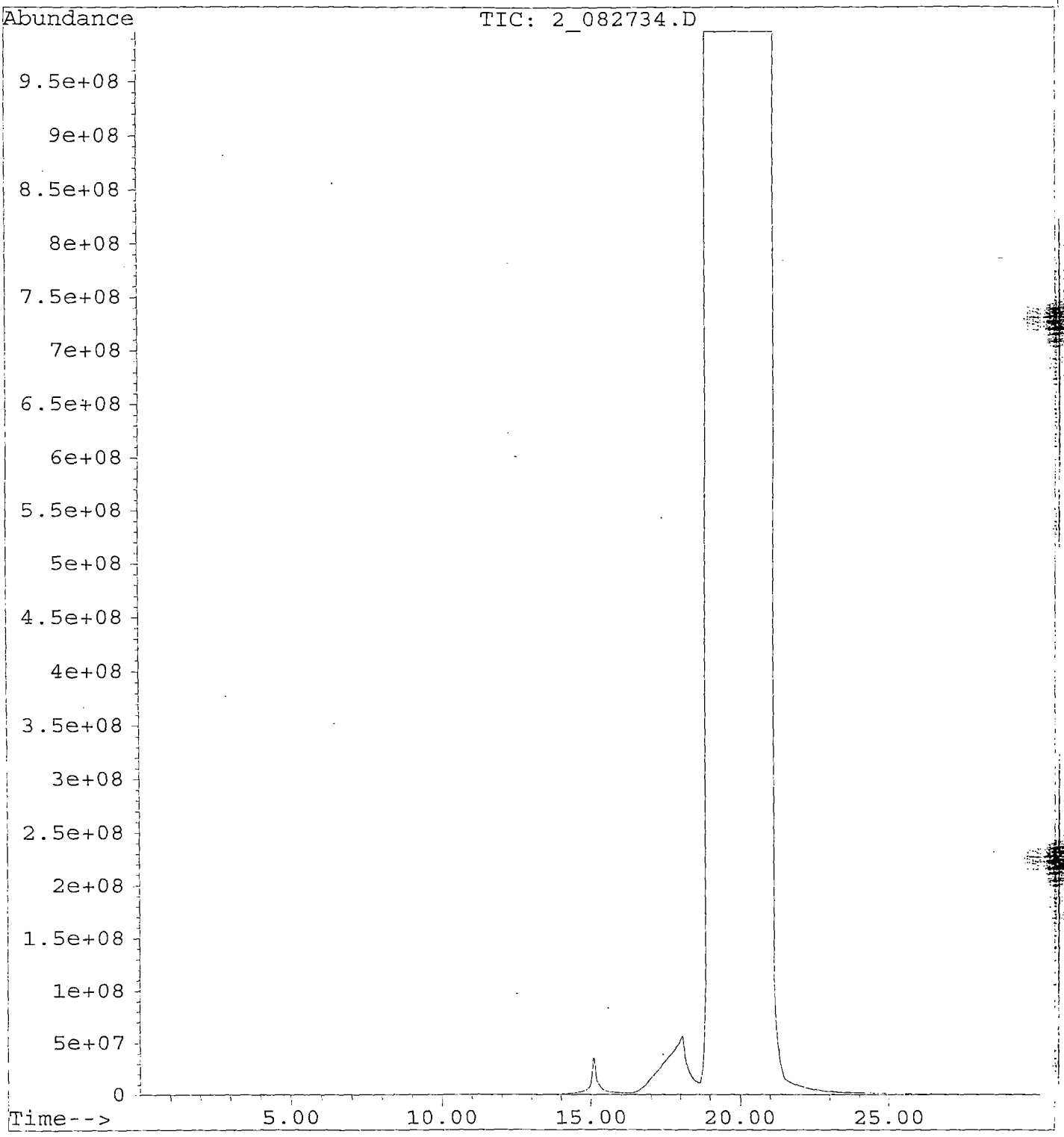
File : C:\HPCHEM\6\DATA\082701\2_082732.D
Operator : CR COL# 364134
Acquired : 28 Aug 01 07:18 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47348.05-E03D1-EPA
Misc Info : COL# 364134
Vial Number: 32



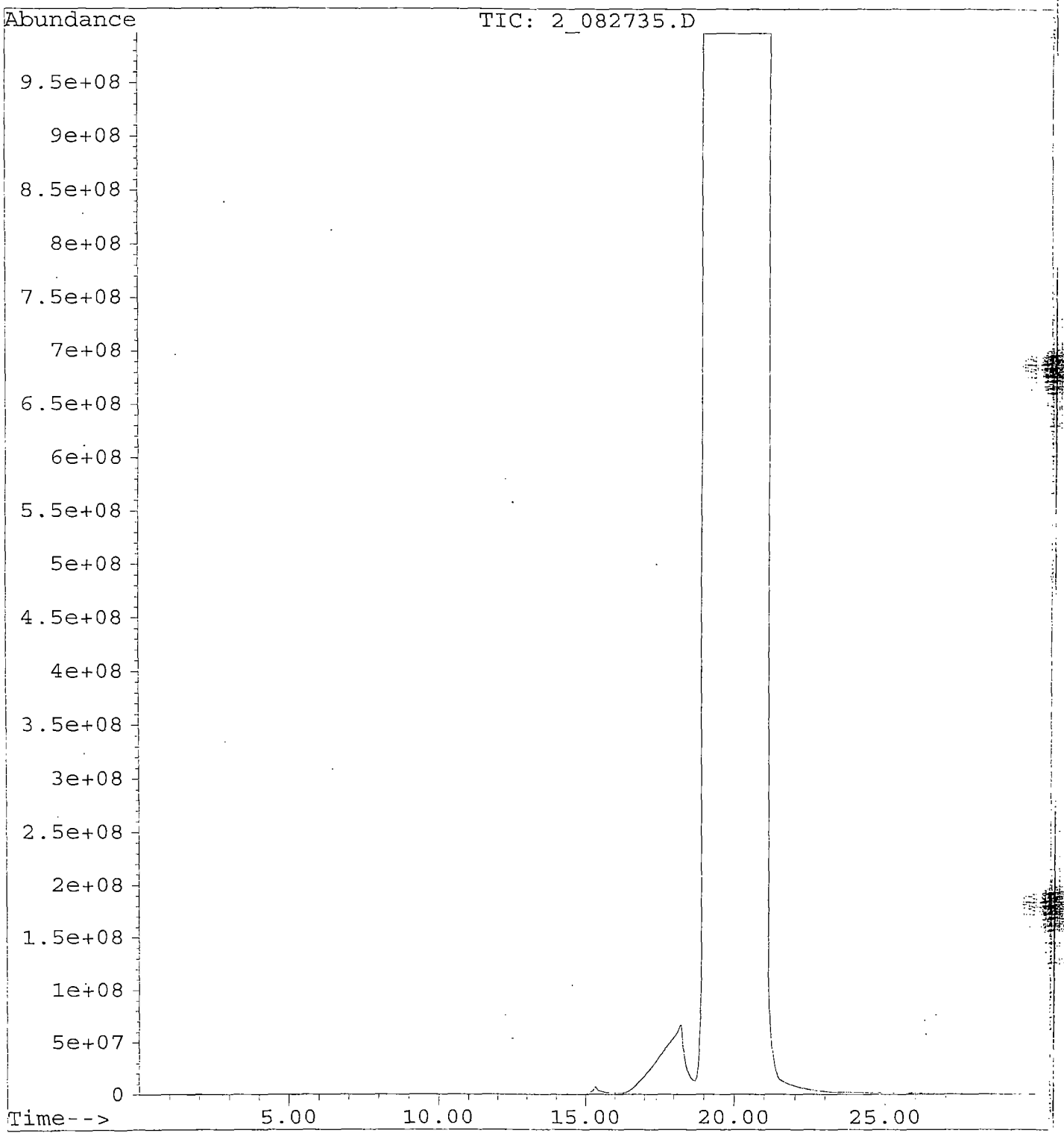
File : C:\HPCHEM\6\DATA\082701\2_082733.D
Operator : CR COL# 364134
Acquired : 28 Aug 01 07:49 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47348.06-E03D2-EPA
Misc Info : COL# 364134
Vial Number: 33



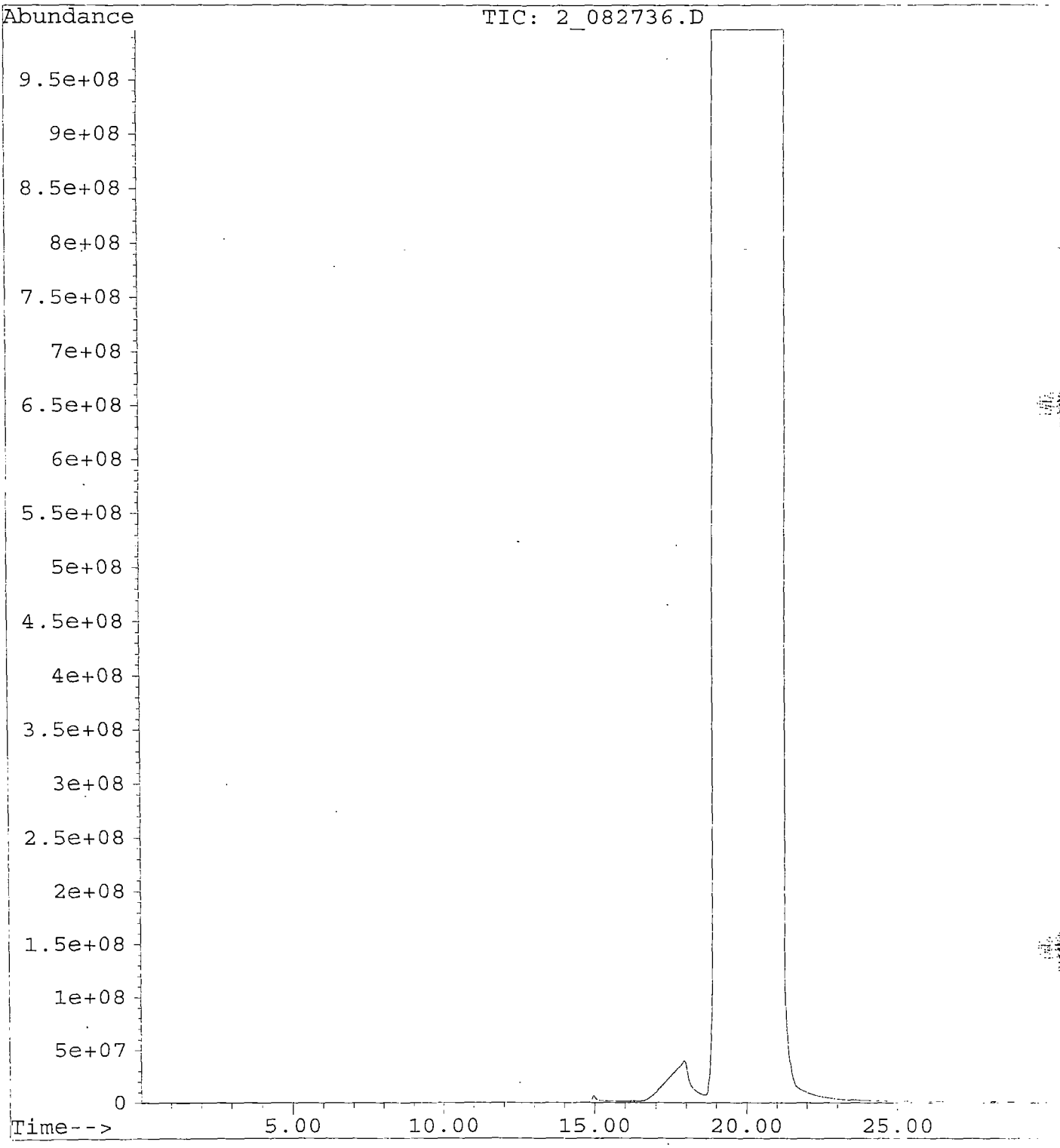
File : C:\HPCHEM\6\DATA\082701\2_082734.D
Operator : CR COL# 364134
Acquired : 28 Aug 01 08:20 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 34



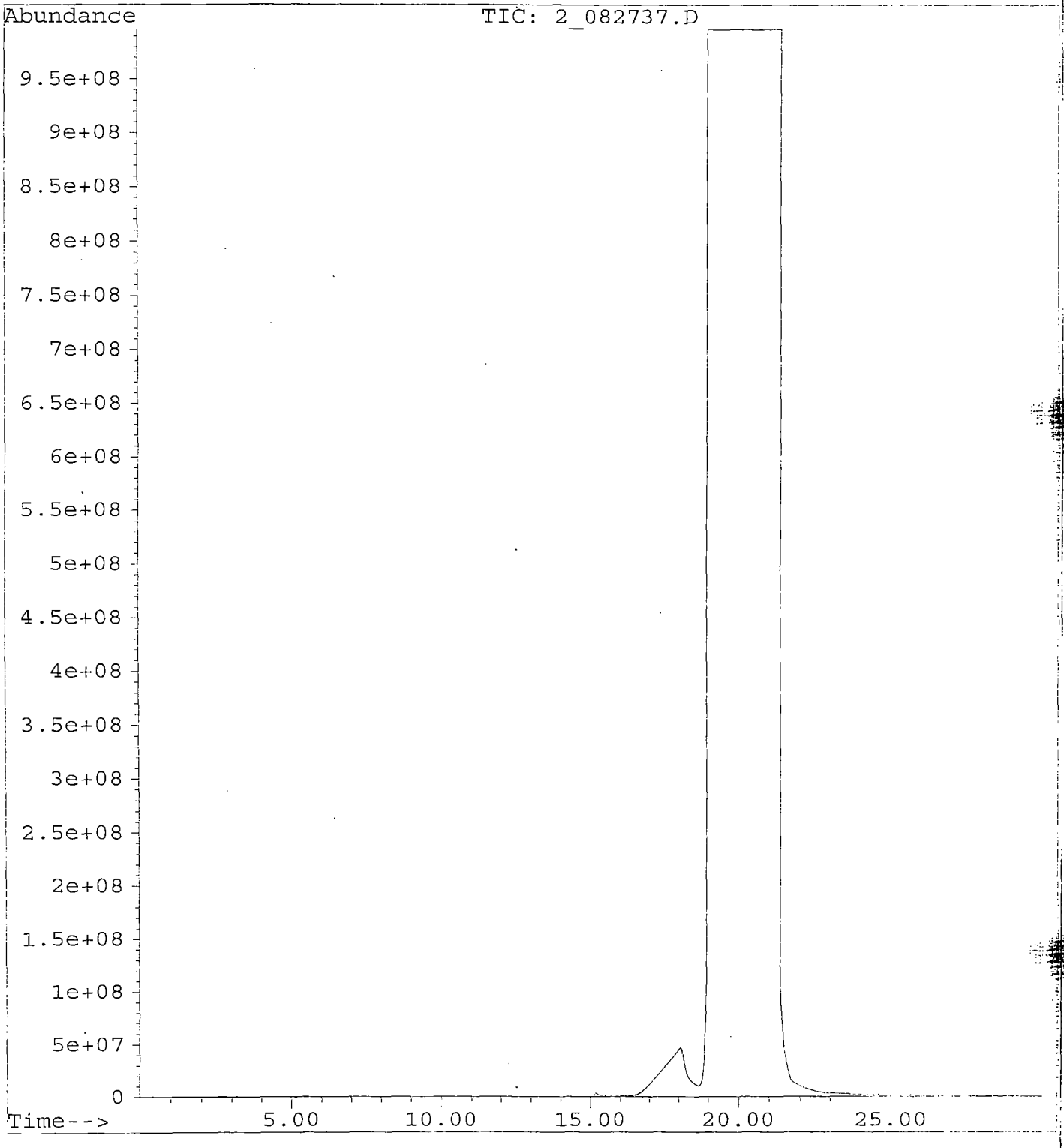
File : C:\HPCHEM\6\DATA\082701\2_082735.D
Operator : CR COL# 364134
Acquired : 28 Aug 01 08:52 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 35



File : C:\HPCHEM\6\DATA\082701\2_082736.D
Operator : CR COL# 364134
Acquired : 28 Aug 01 09:23 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 36

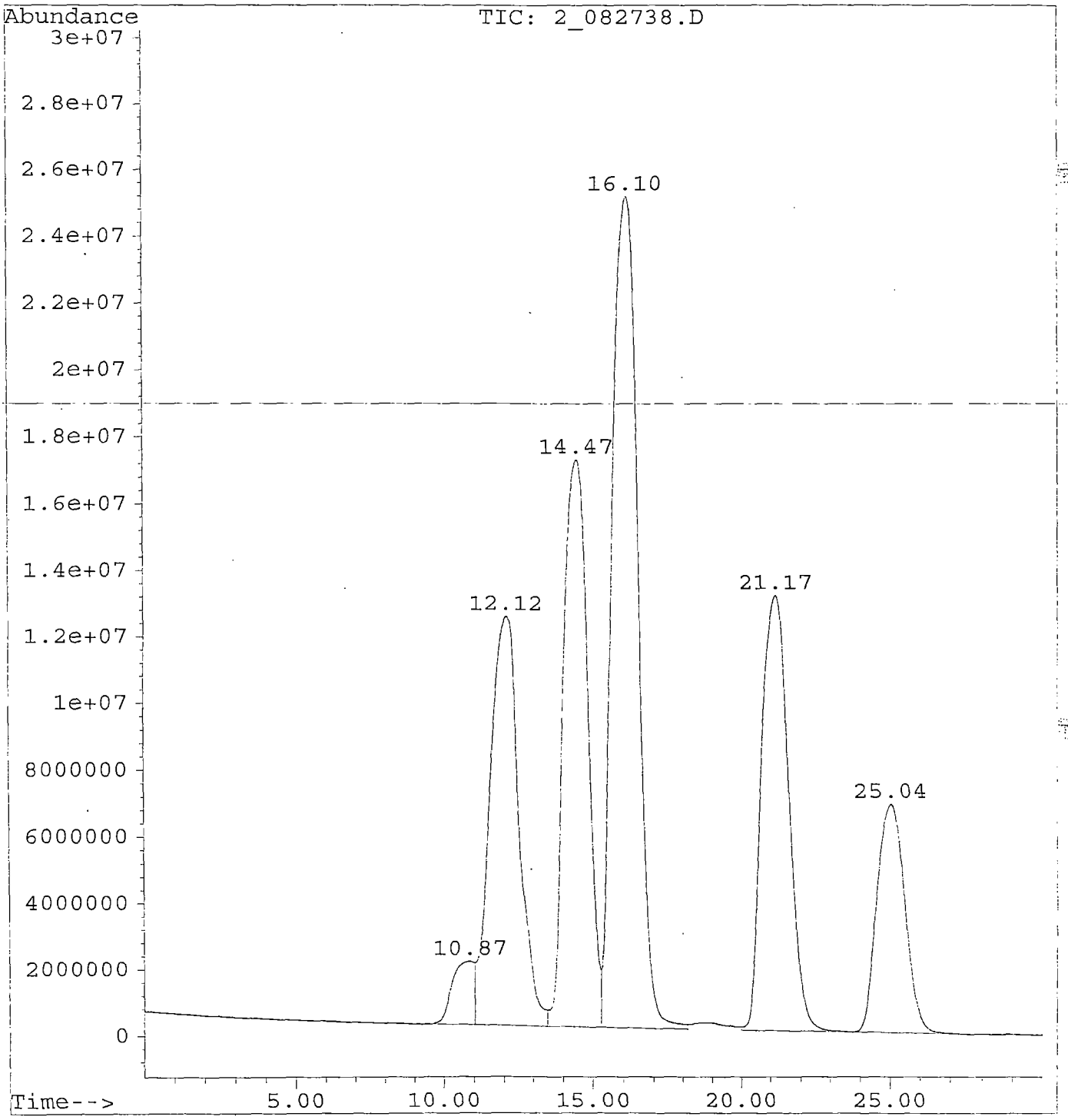


File : C:\HPCHEM\6\DATA\082701\2_082737.D
Operator : CR COL# 364134
Acquired : 28 Aug 01 09:54 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 37



Data File : C:\HPCHEM\6\DATA\082701\2_082738.D
Acq On : 28 Aug 01 10:25 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\082701\2_082738.D
Acq On : 28 Aug 01 10:25
Sample : CAL STD (FINAL)
Misc : COL# 364134

Vial: 38
Operator: CR COL#
Inst : GPC2
Multiplr: 1.00

Method : C:\HPCHEM\6\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
10.868	12.116	3.06
12.116	14.472	96.34
14.472	16.102	89.98
16.102	21.175	100.00
21.175	25.035	99.89

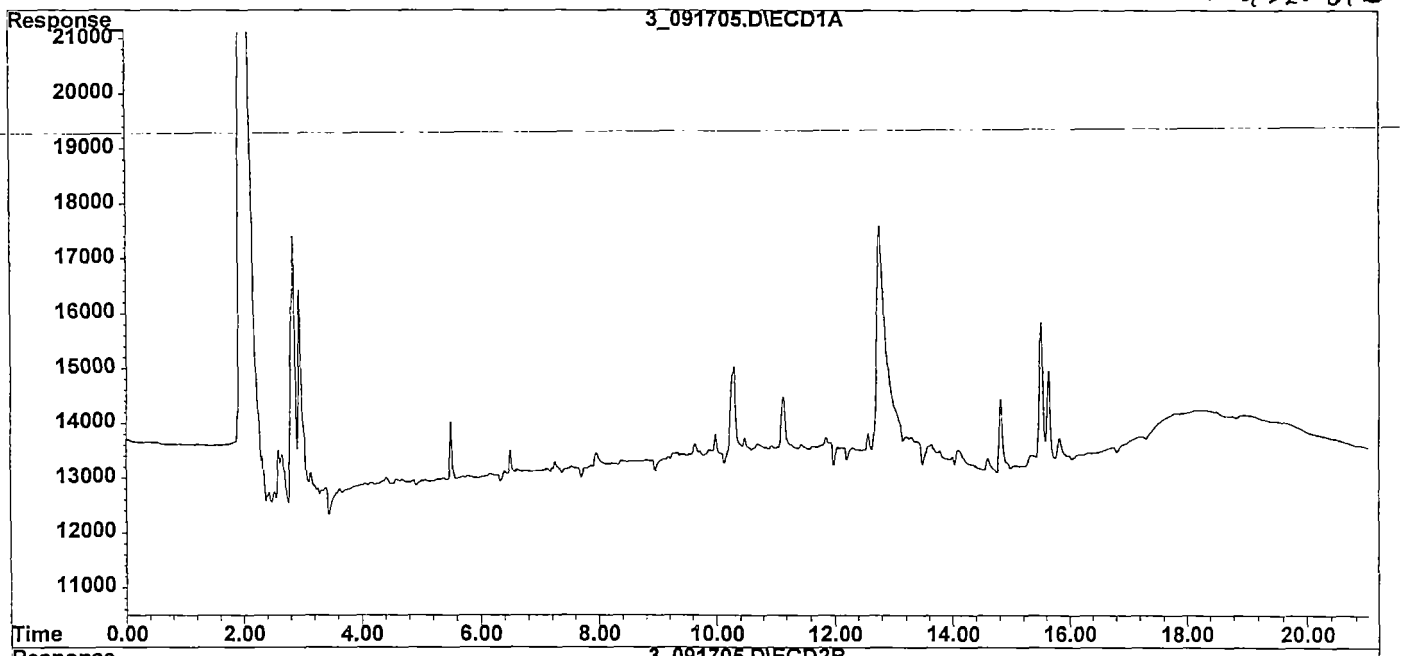
Chromatographic Report

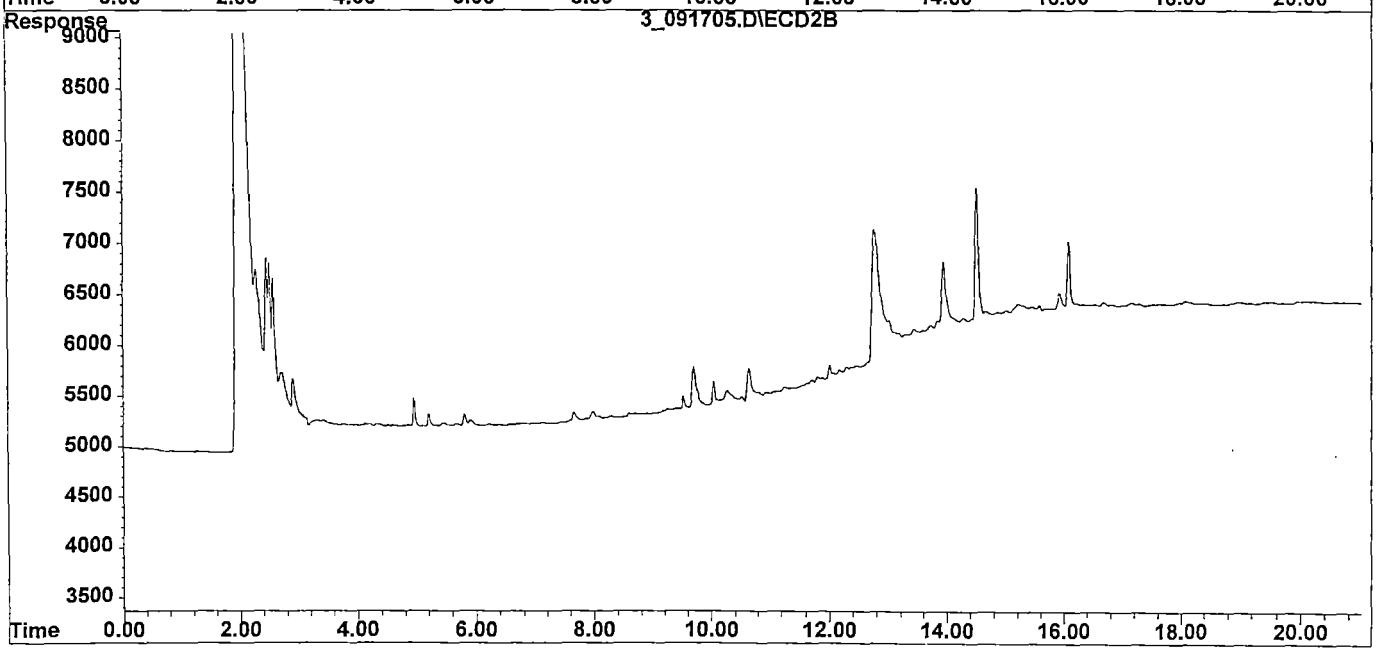
Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091705.D\ECD1A.CH Vial: 5
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091705.D\ECD2B.CH
Acq On : 17 Sep 2001 18:44 Operator: BTB
Sample : SB082701C *SB082701C * Inst : HP_03
Misc : **1000ML/10ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 10:20 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

ok 9-21-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091705.D\ECD1A.CH Vial: 5
Signal #2 : F:\HPCHEM\HP\3\DATA\09_17_01\3_091705.D\ECD2B.CH
Acq On : 17 Sep 2001 18:44 Operator: BTB
Sample : SB082701C *SB082701C * Inst : HP_03
Misc : **1000ML/10ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 10:20 2001 Quant Results File: XPCBI16.RES

Method : F:\HPCHEM\HP\3\DATA\09_17_01\XPCBI16.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL

System Monitoring Compounds:

Target Compounds:

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

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-13 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_03
SDG NO. : SWLO METHOD FILE(S): XPCBI07

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/16/01 10:55	HEX	HEX	3_091601	Sol
09/16/01 11:21	HEX	HEX	3_091602	
09/16/01 11:46	HEX	HEX	3_091603	
09/16/01 12:12	HEX	HEX	3_091604	
09/16/01 12:38	HEX	HEX	3_091605	
09/16/01 13:03	RESC3E	5-171-7	3_091606	OK
09/16/01 13:29	AR1221L33E	5-420-6	3_091607	
09/16/01 13:55	AR1232L33E	5-422-6	3_091608	
09/16/01 14:20	AR1242L13E	5-11-7	3_091609	
09/16/01 14:46	AR1242L23E	5-10-7	3_091610	
09/16/01 15:12	AR1242L33E	5-9-7	3_091611	
09/16/01 15:37	AR1242L43E	5-8-7	3_091612	
09/16/01 16:03	AR1242L53E	5-7-7	3_091613	
09/16/01 16:29	AR1248L33E	5-424-6	3_091614	
09/16/01 16:54	AR1254L13E	5-6-7	3_091615	
09/16/01 17:20	AR1254L23E	5-5-7	3_091616	
09/16/01 17:46	AR1254L33E	5-4-7	3_091617	
09/16/01 18:11	AR1254L43E	5-3-7	3_091618	
09/16/01 18:37	AR1254L53E	5-2-7	3_091619	
09/16/01 19:02	AR1660L13E	5-212-7	3_091620	
09/16/01 19:28	AR1660L23E	5-211-7	3_091621	

Unless noted, Client Ids are the same for the quant. & confirmation columns

Jennifer Freeman 9/18/01 Dawn Bolds 09/18/01
Verification Signature/Date Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-13 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_03
SDG NO. : SWLO METHOD FILE(S): XPCBI07

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/16/01 19:54	AR1660L33E	5-210-7	3_091622	OK
09/16/01 20:19	AR1660L43E	5-209-7	3_091623	
09/16/01 20:45	AR1660L53E	5-208-7	3_091624	
09/16/01 21:10	PIBLK3E	5-131-7	3_091625	

Unless noted, Client Ids are the same for the quant. & confirmation columns

Jennifer Zielman 9/18/01 Dan Bailey 09 801
Verification Signature/Date Analyst Signature/Date

Page No.: 28

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-13 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_03
SDG NO. : SWLO METHOD FILE(S): XPCBI07

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/17/01 17:02	HEX	HEX	3_091701	SOL
09/17/01 17:27	PIBLK3F	5-131-7	3_091702	OK
09/17/01 17:53	AR1660L33F	5-210-7	3_091703	OK
09/17/01 18:19	AR1660L33G	5-210-7	3_091704	NV
09/17/01 18:44	SB082701C	SB082701C	3_091705	OK
09/17/01 19:10	SB082701D	SB082701D	3_091706	
09/17/01 19:36	PBLKSB	BL0823SB	3_091707	
09/17/01 20:01	PBLKSB	BB0823SB	3_091708	
09/17/01 20:27	ELCS1	LC0823SB	3_091709	
09/17/01 20:53	ELCS2	LD0823SB	3_091710	
09/17/01 21:18	E02T6	47316.10	3_091711	
09/17/01 21:44	E02T6DL	47316.10DL	3_091712	Verifies 3_091271
09/17/01 22:10	E02Q6DL	47293.12DL	3_091713	Verifies 3_091225
09/17/01 22:35	E0329	47324.01	3_091714	
09/17/01 23:01	HEX	HEX	3_091715	SOL
09/17/01 23:27	HEX	HEX	3_091716	SOL
09/17/01 23:52	HEX	HEX	3_091717	SOL
09/18/01 00:18	PIBLK3G	5-131-7	3_091718	OK
09/18/01 00:44	AR1660L33H	5-210-7	3_091719	OK
09/18/01 1:09	AR1660L33I	5-210-7	3_091720	NV
09/18/01 1:35	E03C9	47348.01	3_091721	Needs 10x

Unless noted, Client Ids are the same for the quant. & confirmation columns

Verification Signature/Date

Analyst Signature/Date 091901

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-13 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_03
SDG NO. : SWLO METHOD FILE(S): XPCBI07

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/18/01 2:01	E03C9MS	47348.02MS	3_091722	OK
09/18/01 2:26	E03C9,MSD	47348.03MSD	3_091723	OK
09/18/01 2:52	E03D0	47348.04	3_091724	Needs 20X
09/18/01 3:17	E03D1	47348.05	3_091725	Needs 10X
09/18/01 3:43	E03D2	47348.06	3_091726	OK
09/18/01 4:09	E03D3	47348.07	3_091727	
09/18/01 4:34	E03D4	47348.08	3_091728	
09/18/01 5:00	E03D5	47348.09	3_091729	
09/18/01 5:26	E03D6	47348.10	3_091730	Needs 10X
09/18/01 5:51	E03D7	47348.11	3_091731	Needs 20X
09/18/01 6:17	HEX	HEX	3_091732	SOL
09/18/01 6:43	HEX	HEX	3_091733	SOL
09/18/01 7:08	HEX	HEX	3_091734	SOL
09/18/01 7:34	PIBLK3H	5-131-7	3_091735	OK
09/18/01 7:59	AR1660L33J	5-210-7	3_091736	OK
09/18/01 8:25	AR1660L33K	5-210-7	3_091737	NU
09/18/01 8:51	E03D8	47348.12	3_091738	Needs 5X
09/18/01 9:16	E03D9	47348.13	3_091739	OK
09/18/01 9:42	E03E0	47348.14	3_091740	
09/18/01 10:08	E03E1	47348.15	3_091741	
09/18/01 10:33	E03E2	47348.16	3_091742	

Unless noted, Client Ids are the same for the quant. & confirmation columns

Verification Signature/Date

Blaine Baldy 09/18/01
Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-13 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_03
SDG NO. : SWLO METHOD FILE(S): XPCBI07

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/18/01 10:59	E03E3	47348.17	3_091743	OK
09/18/01 11:25	E03E4	47348.18	3_091744	
09/18/01 11:50	E03E5	47348.19	3_091745	
09/18/01 12:16	E03E6	47348.20	3_091746	
09/18/01 12:42	E03E7	47348.21	3_091747	
09/18/01 13:07	E03E8	47348.22	3_091748	
09/18/01 13:33	HEX	HEX	3_091749	SOL
09/18/01 13:58	HEX	HEX	3_091750	SOL
09/18/01 14:24	HEX	HEX	3_091751	SOL
09/18/01 14:50	PIBLK3I	5-131-7	3_091752	OK
09/18/01 15:16	AR1660L33L	5-210-7	3_091753	OK
09/18/01 15:41	AR1660L33M	5-210-7	3_091754	NV
09/18/01 16:07	SB091501A	SB091501A	3_091755	OK
09/18/01 16:33	SB091501B	SB091501B	3_091756	
09/18/01 16:58	PBLKSA	BL0914SA	3_091757	
09/18/01 17:24	PBLKSA	BB0914SA	3_091758	
09/18/01 17:50	ELCS1	LC0914SA	3_091759	
09/18/01 18:16	ELCS2	LD0914SA	3_091760	
09/18/01 18:41	E02R3RE	47293.21RE	3_091761	
09/18/01 19:07	E0332DL	47324.06DL	3_091762	Verified 3_091418
09/18/01 19:33	E0339DL	47324.13DL	3_091763	Verified 3_091426

Unless noted, Client Ids are the same for the quant. & confirmation columns

9-19-01 — Verification Signature/Date

Blaine Baldwin 091901 — Analyst Signature/Date