US EPA RECORDS CENTER REGION 5
396638

OMC

OUTBOARD MARINE CORPORATION

100 Sea Horse Drive
Waukegan, Illinois 60085-2195
Phone 847/689-6200

June 9, 2000

Mr. Kevin Adler
Remedial Project Manager/
Waukegan Harbor Site On-Scene Coordinator
U.S. Environmental Protection Agency
77 W. Jackson Blvd.
Chicago, IL 60604-3590

RE: **Waukegan Harbor Superfund Site**
United States of America and the People of the State of Illinois
vs. The Outboard Marine Corporation
Civil Action # 88 C 8571
Transmittal of Quarterly Report

Dear Mr. Adler:

As called for in the subject consent decree, OMC herein submits a quarterly report for the period ending May 31, 2000. If you have any questions, please feel free to call me at (847) 689-7046.

Sincerely,

Michael W. Rehor

Michael W. Rehor, P.E.
Manager, Environmental Services

MR/kah
Enclosure
cc: See Distribution List (attached)

S:\EHS\REMEDIAL\HARBOR\Correspondence\2000\QTR-03.doc

QUARTERLY PROGRESS REPORT

MARCH 1, 2000
THROUGH
MAY 31, 2000

WAUKEGAN HARBOR
REMEDIAL ACTION

QUARTERLY PROGRESS REPORT

March 1, 2000 Through May 31, 2000

WAUKEGAN HARBOR REMEDIAL ACTION

This report presents a quarterly report for the above-specified time period for the Waukegan Harbor Superfund Site pursuant to the Consent Decree for remedial action.

WORK COMPLETED: NEW DATA AND TEST RESULTS

Bi-weekly water level measurements were taken throughout the quarter to insure inward hydraulic gradient during the shutdown period. Tables 3, 4, and 5 present water level measurements collected during the quarter for the Slip 3, East, and West Containment Cells, respectively. An inward hydraulic gradient was maintained at the containment cells throughout the quarter. Table 6 presents water level measurements for the Temporary Designated Soil Stockpile (PNA Cell).

Attachment 1 contains copies of Discharge Monitoring Reports for NPDES Permit Number IL0002267 for March, April, and May 2000.

Semi-annual ground water sampling was conducted during the quarter. Data reports and evaluations are included in attachments 2 and 3. Water treatment systems were not operated during the quarter due to low water levels inside of the containment cells. Accordingly, no sampling was conducted.

PLANS FOR THE NEXT QUARTER

1. Weekly water level measurements will be taken throughout the next quarter to insure inward hydraulic gradient.

2. The water treatment systems will be started up in the next quarter if water level data and weather conditions indicate the need.

LEGAL ISSUES

There have been no legal developments during the past quarter.

TABLES

TABLE 1a

Analytical Results

Slip No. 3 Containment Cell

DATE						
3/1/00						COMMENTS
Thru						System off. No activity during quarter.
5/31/00						

TABLE 1 b

Analytical Results

East Containment Cell

DATE						
3/1/00						COMMENTS
Thru						System off. No activity during quarter.
5/31/00						

TABLE 1 c

Analytical Results

West Containment Cell

DATE						
3/1/00						COMMENTS
Thru						System off. No activity during quarter.
5/31/00						

Michael W. Rehn

TABLE 2a

Category 5 Water Treatment Plant

Operational Data

Slip No. 3 Containment Cell

DATE	TIME	TOTALIZER R-1	TOTALIZER R2	GALLONS PER PERIOD	GALLONS TOTAL	COMMENTS
3/1/00						System off. No activity during quarter.
Thru						
5/31/00						

TABLE 2b

Category 5 Water Treatment Plant

Operational Data

East Containment Cell

DATE	TIME	TOTALIZER R-3	TOTALIZER R4	GALLONS PER PERIOD	GALLONS TOTAL	COMMENTS
3/1/00						System off. No activity during quarter.
Thru						
5/31/00						

TABLE 2c

Category 5 Water Treatment Plant

Operational Data

West Containment Cell

DATE	TIME	TOTALIZER R-5	TOTALIZER R6	GALLONS PER PERIOD	GALLONS TOTAL	COMMENTS
3/1/00						System off. No activity during quarter.
Thru						
5/31/00						

Table 3
Slip 3 Containment Ground Water Data
Waukegan Harbor Remedial Action

		W-1	P-1	W-2	P-2	W-3	P-3	W-4	P-4	R-1	R-2
	T.O.R.	586.49	587.59	587.52	587.94	585.97	588.61	582.3	587.54	590.6	591.17
DATE		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
March 14, 2000	DEPTH	4.89	16.03	5.51	16.72	4.10	17.46	2.50	17.17	19.92	20.81
11:20 AM	ELEV.	581.6	571.56	581.96	571.22	581.87	571.15	579.8	573.85	570.68	570.36
	DIFF.	10.04		10.74		10.72		5.95			
March 31, 2000	DEPTH	4.84	15.94	5.47	16.60	4.08	17.34	2.46	17.00	19.76	20.67
12:40 PM	ELEV.	581.65	571.65	582	571.34	581.89	571.27	579.84	574.02	570.84	570.5
	DIFF.	10.00		10.66		10.62		5.82			
April 12, 2000	DEPTH	4.81	15.86	5.25	16.44	4.10	17.11	2.35	16.8	19.56	20.45
10:00 AM	ELEV.	581.68	571.73	582.22	571.5	581.87	571.5	579.95	574.22	571.04	570.72
	DIFF.	9.95		10.72		10.37		5.73			
April 24, 2000	DEPTH	4.38	15.70	4.80	16.31	3.80	17.04	2.07	16.75	20.45	20.40
11:00 AM	ELEV.	582.11	571.89	582.67	571.63	582.17	571.57	580.23	574.27	570.15	570.77
	DIFF.	10.22		11.04		10.6		5.96			
May 11, 2000	DEPTH	4.51	15.62	5.11	16.23	3.87	16.92	2.21	16.62	20.5	20.36
10:15	ELEV.	581.98	571.97	582.36	571.71	582.1	571.69	580.09	574.4	570.1	570.81
	DIFF.	10.01		10.65		10.41		5.69			

Table 3
Slip 3 Containment Ground Water Data
Waukegan Harbor Remedial Action

		W-1	P-1	W-2	P-2	W-3	P-3	W-4	P-4	R-1	R-2
	T.O.R.	586.49	587.59	587.52	587.94	585.97	588.61	582.3	587.54	590.6	591.17
DATE		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
May 17, 2000	DEPTH	4.67	15.45	5.32	16.11	4.00	16.85	2.30	16.51	19.24	20.20
9:30 A.M.	ELEV.	581.82	572.14	582.15	571.83	581.97	571.76	580	574.51	571.36	570.97
	DIFF.	9.68		10.32		10.21		5.49			
May 23, 2000	DEPTH	4.30	15.30	4.40	15.92	3.72	16.62	1.80	16.29	19.05	20.60
10:20 AM	ELEV.	582.19	572.29	583.07	572.02	582.25	571.99	580.5	574.73	571.55	570.57
	DIFF.	9.90		11.05		10.26		5.77			
May 31, 2000	DEPTH	4.22	15.26	4.84	15.90	3.96	16.60	1.80	16.28	19.00	20.31
11:00 AM	ELEV.	582.27	572.33	582.63	572.04	582.01	572.01	580.5	574.74	571.6	570.86
	DIFF.	9.94		10.59		10.00		5.76			
June 6, 2000	DEPTH	4.07	15.20	4.76	15.82	3.44	16.60	1.81	16.25	18.98	19.95
1:00 PM	ELEV.	582.42	572.39	582.71	572.12	582.53	572.01	580.49	574.77	571.62	571.22
	DIFF.	10.03		10.59		10.52		5.72			

Table 4
East Containment Ground Water Data
Waukegan Harbor Remedial Action

		W-5	P-5	W-6	P-6	W-7	P-7	W-8	P-8	R-3	R-4
	T.O.R.	588.8	587.9	588.31	587.96	586.71	587.08	586.67	587.86	591.93	591.98
DATE		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
March 14, 2000	DEPTH	7.84	14.11	6.99	14.08	5.61	12.89	6.9	14.02	18.06	18.2
10:55 AM	ELEV.	580.96	573.79	581.32	573.88	581.1	574.19	579.77	573.84	573.87	573.78
	DIFF.	7.17		7.44		6.91		5.93			
March 31, 2000	DEPTH	7.90	14.32	7.00	14.3	5.64	13.09	7.08	14.20	18.27	18.34
1:12 PM	ELEV.	580.9	573.58	581.31	573.66	581.07	573.99	579.59	573.66	573.66	573.64
	DIFF.	7.32		7.65		7.08		5.93			
April 12, 2000	DEPTH	7.70	13.95	6.95	13.97	5.54	12.7	6.30	13.9	17.85	18.00
11:30 AM	ELEV.	581.1	573.95	581.36	573.99	581.17	574.38	580.37	573.96	574.08	573.98
	DIFF.	7.15		7.37		6.79		6.41			
April 24, 2000	DEPTH	6.87	14.20	6.65	14.15	5.30	13.00	6.35	14.10	18.18	18.25
11:00 AM	ELEV.	581.93	573.7	581.66	573.81	581.41	574.08	580.32	573.76	573.75	573.73
	DIFF.	8.23		7.85		7.33		6.56			
May 11, 2000	DEPTH	7.02	14.21	6.72	14.10	5.44	13.01	6.55	14.12	18.20	18.18
1:45 PM	ELEV.	581.78	573.69	581.59	573.86	581.27	574.07	580.12	573.74	573.73	573.8
	DIFF.	8.09		7.73		7.20		6.38			

Table 4
East Containment Ground Water Data
Waukegan Harbor Remedial Action

		W-5	P-5	W-6	P-6	W-7	P-7	W-8	P-8	R-3	R-4
	T.O.R.	588.8	587.9	588.31	587.96	586.71	587.08	586.67	587.86	591.93	591.98
DATE		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
May 17, 2000	DEPTH	7.66	14.22	6.80	14.24	5.65	13.04	6.81	14.13	18.23	18.30
1:00 PM	ELEV.	581.14	573.68	581.51	573.72	581.06	574.04	579.86	573.73	573.7	573.68
	DIFF.	7.46		7.79		7.02		6.13			
May 23, 2000	DEPTH	6.88	14.60	6.45	13.81	5.30	12.68	6.40	13.85	21.42	18.80
1:00 PM	ELEV.	581.92	573.3	581.86	574.15	581.41	574.4	580.27	574.01	570.51	573.18
	DIFF.	8.62		7.71		7.01		6.26			
May 31, 2000	DEPTH	6.72	14.51	6.26	14.25	5.22	12.87	6.36	13.92	21.66	18.81
2:10 PM	ELEV.	582.08	573.39	582.05	573.71	581.49	574.21	580.31	573.94	570.27	573.17
	DIFF.	8.69		8.34		7.28		6.37			
June 6, 2000	DEPTH	6.58	14.40	6.14	14.28	5.18	13.00	6.20	14.30	21.80	18.95
1:20 PM	ELEV.	582.22	573.5	582.17	573.68	581.53	574.08	580.47	573.56	570.13	573.03
	DIFF.	8.72		8.49		7.45		6.91			

Table 5
West Containment Ground Water Data
Waukegan Harbor Remedial Action

		W-9	P-9	W-10	P-10	W-11	P-11	W-12	P-12	R-5	R-6
	T.O.R.	587.81	588.01	587.51	587.52	589.26	588.12	587.13	587.8	603.83	601.56
DATE		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
March 14, 2000	DEPTH	5.80	12.00	4.95	11.83	6.64	12.36	5.86	10.51	28.1	25.61
10:25 AM	ELEV.	582.01	576.01	582.56	575.69	582.62	575.76	581.27	577.29	575.73	575.95
	DIFF.	6.00		6.87		6.86		3.98			
March 31, 2000	DEPTH	5.73	11.84	4.90	11.65	6.5	12.21	5.88	10.38	27.93	25.36
12:55 PM	ELEV.	582.08	576.17	582.61	575.87	582.76	575.91	581.25	577.42	575.9	576.2
	DIFF.	5.91		6.74		6.85		3.83			
April 12, 2000	DEPTH	5.65	11.62	4.80	11.39	6.41	12.80	5.76	10.21	27.65	25.17
10:40 AM	ELEV.	582.16	576.39	582.71	576.13	582.85	575.32	581.37	577.59	576.18	576.39
	DIFF.	5.77		6.58		7.53		3.78			
April 24, 2000	DEPTH	5.51	11.25	4.20	11.33	5.62	11.97	5.25	10.00	27.65	25.12
11:00 AM	ELEV.	582.3	576.76	583.31	576.19	583.64	576.15	581.88	577.8	576.18	576.44
	DIFF.	5.54		7.12		7.49		4.08			
May 11, 2000	DEPTH	5.51	11.25	4.38	11.19	5.89	11.84	5.38	9.92	27.51	25.01
11:30 AM	ELEV.	582.3	576.76	583.13	576.33	583.37	576.28	581.75	577.88	576.32	576.55
	DIFF.	5.54		6.8		7.09		3.87			

Table 5
West Containment Ground Water Data
Waukegan Harbor Remedial Action

		W-9	P-9	W-10	P-10	W-11	P-11	W-12	P-12	R-5	R-6
	T.O.R.	587.81	588.01	587.51	587.52	589.26	588.12	587.13	587.8	603.83	601.56
DATE		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
May 17, 2000	DEPTH	5.55	11.24	4.65	11.02	6.03	11.62	5.60	9.85	27.36	24.86
10:30 AM	ELEV.	582.26	576.77	582.86	576.5	583.23	576.5	581.53	577.95	576.47	576.7
	DIFF.	5.49		6.36		6.73		3.58			
May 23, 2000	DEPTH	5.10	11.20	4.00	10.85	5.44	11.40	5.15	9.60	27.17	27.75
11:15 AM	ELEV.	582.71	576.81	583.51	576.67	583.82	576.72	581.98	578.2	576.66	573.81
	DIFF.	5.90		6.84		7.1		3.78			
May 31, 2000	DEPTH	5.01	11.33	3.92	10.90	5.47	11.51	5.08	9.72	27.26	27.99
1:30 PM	ELEV.	582.8	576.68	583.59	576.62	583.79	576.61	582.05	578.08	576.57	573.57
	DIFF.	6.12		6.97		7.18		3.97			
June 6, 2000	DEPTH	4.90	11.52	3.82	10.97	5.50	11.60	5.00	9.78	27.40	28.52
12:45 PM	ELEV.	582.91	576.49	583.69	576.55	583.76	576.52	582.13	578.02	576.43	573.04
	DIFF.	6.42		7.14		7.24		4.11			

TABLE 6

Temporary Designated Soil Stockpile (PNA Cell)
Water Level Readings
Waukegan Harbor Remedial Action

READING DATE	READING ABOVE SUMP (in inches)	ELEVATION (feet MSL)	ACTION LEVEL (feet MSL)	DIFFERENCE (in inches)	COMMENTS/ INSPECTION NOTES
2/28/00	30.50	585.35	586.14	-9.46	Cover OK.
3/31/00	31.00	585.39	586.14	-8.96	Cover OK.
4/12/00	31.00	585.39	586.14	-8.96	Cover OK.
5/23/00	31.40	585.43	586.14	-8.56	Cover OK.

ATTACHMENT 1

DISCHARGE MONITORING REPORTS

OMC

OUTBOARD MARINE CORPORATION

100 Sea Horse Drive
Waukegan, Illinois 60085-2195
Phone 847/689-6200

March 24, 2000

Mr. Dan Ray
Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, IL 62702

Re: Discharge Monitoring Report - February 2000
NPDES Permit No. IL 0002267

Dear Mr. Ray:

Enclosed is the February 2000 Discharge Monitoring Report for the OMC Waukegan facility.

If you have any questions regarding these matters, I can be contacted at 847 / 689-5363.

Sincerely,

Anthony M. Montemurro, CHMM
Environmental Specialist
Outboard Marine Corporation

encl.

cc: J. R. Crawford
J. Moran

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: *OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION*

ADDRESS: *100 SEA-HORSE DRIVE*
WAUKEGAN, IL 60085 *ATTN: ANTHONY MONTEMURRO*

PHONE: *(847)689-5363*

COMMENTS

(2-3) ST	(4-16) PERMIT NUMBER	(17-19) DIS	SIC	LATITUDE	LONGITUDE
IL	0002267	001	3519	42° 21' 48"	87° 49' 18"

REPORTING PERIOD FROM (20-21) YEAR 0 0 (22-23) MO 0 2 (24-25) DAY 0 1 TO (26-27) YEAR 0 0 (28-29) MO 0 2 (30-31) DAY 2 9

(32-37) PARAMETER		3 card only QUANTITY (38-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-62) NO EX	4 card only CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX	(64-68) FREQUENCY OF ANALYSIS	(68-70) SAMPLE TYPE
	REPORTED	0.215	0.354	0.478	10^6	0						4/30	24 HOUR
FLOW	PERMIT CONDITION				Gallons							1/30	24 HOUR
pH	REPORTED						7.4	7.4	7.4		0	1/30	GRAB
(00440)	PERMIT CONDITION						6		9			1/30	GRAB
TEMPERATURE	REPORTED						52.5	52.5	52.5		0	1/30	GRAB
(00010)	PERMIT CONDITION									°F		1/30	GRAB
POLYCHLORINATED	REPORTED						<0.0005	<0.0005	<0.0005		0	1/7	24 HOUR
BIPHENYLS	PERMIT CONDITION								0.005	Mg/l		1/7	24 HOUR
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER	TITLE OF THE OFFICER	DATE
SCHNEIDER, TERRY D. (LAST FIRST MI)	PLANT MANAGER (TITLE)	0 0 (YEAR) 0 3 (MO) 2 4 (DAY)

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate.

T. Schneider, PM
SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532-0092
WPC 242 11/79

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 ½, Section 1042. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $10,000.00 per day of violation or a fine up to $25,000.00 per day of violation and imprisonment up to one year. This form has been approved by the Forms Management Center

044 020

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: *OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION*

ADDRESS: *100 SEA-HORSE DRIVE*
WAUKEGAN, IL 60085 *ATTN: ANTHONY MONTEMURRO*

PHONE: *(847)689-5363*

COMMENTS

** DUE TO THE INSTALLATION OF A CLOSED LOOP COOLING SYSTEM IN DECEMBER 1993, DISCHARGE FROM THIS OUTFALL HAS BEEN ELIMINATED.*

(2-3) ST	(4-16) PERMIT NUMBER	(17-19) DIS	SIC	LATITUDE	LONGITUDE
IL	0002267	006	3519	42° 21' 51"	87° 49' 17"

REPORTING PERIOD FROM (20-21) YEAR 00 (22-23) MO 02 (24-25) DAY 01 TO (26-27) YEAR 00 (28-29) MO 02 (30-31) DAY 29

(32-37) PARAMETER		QUANTITY (3 card only) (38-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	(62-62) UNITS	NO EX.	CONCENTRATION (4 card only) (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	(62-63) UNITS	NO EX.	(64-68) FREQUENCY OF ANALYSIS	(68-70) SAMPLE TYPE
	REPORTED	*	*	*	10^6		*	*	*				24 HOUR
FLOW	PERMIT CONDITION				Gallons							1/7	24 HOUR
pH	REPORTED						*	*	*				GRAB
(00440)	PERMIT CONDITION						6		9			1/30	GRAB
TEMPERATURE	REPORTED						*	*	*				GRAB
(00010)	PERMIT CONDITION									°F		1/30	GRAB
OIL & GREASE	REPORTED						*	*	*				GRAB
(00550)	PERMIT CONDITION							15	30	mg/l		1/30	GRAB
POLYCHLORINATED	REPORTED						*	*	*				24 HOUR
BIPHENYLS	PERMIT CONDITION								0.005	mg/l		1/7	24 HOUR
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER	TITLE OF THE OFFICER	DATE	
SCHNEIDER, TERRY D (LAST FIRST MI)	PLANT MANAGER (TITLE)	00 (YEAR) 03 (MO) 24 (DAY)	

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate

T. Schneider

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532-0092
WPC 242 11/79

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 ½, Section 1042. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $10,000.00 per day of violation or a fine up to $25,000.00 per day of violation and imprisonment up to one year. This form has been approved by the Forms Management Center

044 020

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: *OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION*

ADDRESS: *100 SEA-HORSE DRIVE*
WAUKEGAN, IL 60085 *ATTN: ANTHONY MONTEMURRO*

PHONE: *(847)689-5363*

COMMENTS

(2-3)	(4-16)	(17-19)			
IL	*0002267*	*007*	*3519*	*42° 22' 6"*	*87° 48' 54"*
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM (20-21) (22-23) (24-25): *0 0* YEAR, *0 2* MO, *0 1* DAY TO (26-27) (28-29) (30-31): *0 0* YEAR, *0 2* MO, *2 9* DAY

(32-37) PARAMETER		3 card only QUANTITY (38-34) MINIMUM	(48-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-62) NO EX.	4 card only CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX.	(64-68) FREQUENCY OF ANALYSIS	(68-70) SAMPLE TYPE
	REPORTED	*0.114*	*0.139*	*0.159*	*10^6*	*0*						*2/7*	*24 HOUR*
FLOW	PERMIT CONDITION				*Gallons*							*2/7*	*24 HOUR*
pH	REPORTED						*7.1*	*7.15*	*7.2*		*0*	*2/30*	*GRAB*
(00440)	PERMIT CONDITION						*6*		*9*			*1/30*	*GRAB*
TEMPERATURE	REPORTED						*53.8*	*54.1*	*54.5*		*0*	*2/30*	*GRAB*
(00010)	PERMIT CONDITION									*°F*		*1/30*	*GRAB*
POLYCHLORINATED	REPORTED						*<0.0005*	*<0.0005*	*<0.0005*		*0*	*2/7*	*24 HOUR*
BIPHENYLS	PERMIT CONDITION							*0.001*	*0.005*	*mg/l*		*2/7*	*24 HOUR*
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER	DATE		
SCHNEIDER,	*TERRY*	*D.*	*PLANT MANAGER*	*0 0*	*0 3*	*2 4*
LAST	FIRST	MI	TITLE	YEAR	MO	DAY

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate

T. Schneider

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532-0092
WPC 242 11/79

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 ½, Section 1042. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $10,000.00 per day of violation or a fine up to $25,000.00 per day of violation and imprisonment up to one year. This form has been approved by the Forms Management Center

044 020

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: *OMC WAUKEGAN – FACILITY OF OUTBOARD MARINE CORPORATION*

ADDRESS: *100 SEA-HORSE DRIVE*
WAUKEGAN, IL 50085 *ATTN: ANTHONY MONTEMURRO*

PHONE: *(847)689-5363*

COMMENTS

**No flow at this outfall during this reporting period. This discharge conveys overflow from outfall 007 only.*

(2-3)	(4-16)	(17-19)			
IL	*0002267*	*008*	*3519*	*42° 22' 4"*	*87° 49' 14"*
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM

(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)
0 0	*0 2*	*0 1*	TO	*0 0*	*0 2*	*2 9*
YEAR	MO	DAY		YEAR	MO	DAY

(32-37) PARAMETER		3 card only QUANTITY (38-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-62) NO EX.	4 card only CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX.	(64-68) FREQUENCY OF ANALYSIS	(68-70) SAMPLE TYPE
FLOW	REPORTED	*No Flow**	*No Flow**	*No Flow**	*10^6*	*0*						*2/7*	*24 HOUR*
	PERMIT CONDITION				*Gallons*							*2/7*	*24 HOUR*
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER	DATE		
SCHNEIDER,	*TERRY*	*D.*	*PLANT MANAGER*	*0 0*	*0 3*	*2 4*
LAST	FIRST	MI	TITLE	YEAR	MO	DAY

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate

T. Schneider

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532-0092
WPC 242 11/79

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044 020

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: *OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION*

ADDRESS: *100 SEA-HORSE DRIVE*
WAUKEGAN, IL 60085 *ATTN: ANTHONY MONTEMURRO*

PHONE: *(847)689-5363*

COMMENTS

STORM WATER DISCHARGES FROM THIS OUTFALL HAVE BEEN DIRECTED TO THE STORM WATER RETENTION POND. THE POND DISCHARGE HAS BEEN DESIGNATED TO OUTFALL 017.

(2-3)	(4-16)	(17-19)			
IL	0002267	014	3519	42° 22' 15"	87° 49' 18"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM (20-21) (22-23) (24-25) 0 0 | 0 2 | 0 1 (YEAR MO DAY) TO (26-27) (28-29) (30-31) 0 0 | 0 2 | 2 9 (YEAR MO DAY)

(32-37) PARAMETER		QUANTITY (3 card only) (38-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-62) NO EX.	CONCENTRATION (4 card only) (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX	(64-68) FREQUENCY OF ANALYSIS	(68-70) SAMPLE TYPE
	REPORTED	NO FLOW AT THIS OUTFALL.			10^6								24 HOUR
FLOW	PERMIT CONDITION				Gallons							2/7	24 HOUR
pH	REPORTED												GRAB
(00440)	PERMIT CONDITION						6		9			1/30	GRAB
TEMPERATURE	REPORTED												GRAB
(00010)	PERMIT CONDITION									°F		1/30	GRAB
POLYCHLORINATED	REPORTED												24 HOUR
BIPHENYLS	PERMIT CONDITION							0.001	0.005	mg/l		2/7	24 HOUR
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER	DATE		
SCHNEIDER,	TERRY	D.	PLANT MANAGER	0 0	0 3	2 4
LAST	FIRST	MI	TITLE	YEAR	MO	DAY

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete and accurate

T. Schneider

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532-0092
WPC 242 11/79

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044 020

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: *OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION*

ADDRESS: *100 SEA-HORSE DRIVE*
WAUKEGAN, IL 60085 *ATTN: ANTHONY MONTEMURRO*

PHONE: *(847)689-5363*

COMMENTS

** SAMPLES REQUIRED FOR EACH PRECIPITATION EVENT GREATER THAN 0.3 INCHES IN A 24 HOUR PERIOD*

STORM WATER DISCHARGES FROM THIS OUTFALL HAVE BEEN DIRECTED TO THE STORM WATER RETENTION POND. THE POND DISCHARGE HAS BEEN DESIGNATED OUTFALL 017.

(2-3)	(4-16)	(17-19)			
IL	0002267	015	3519	42° 22' 19"	87° 48' 59"
ST	PERMIT NUMBER	DS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM (20-21) YEAR 00 (22-23) MO 02 (24-25) DAY 01 TO (26-27) YEAR 00 (28-29) MO 02 (30-31) DAY 29

(32-37) PARAMETER		QUANTITY (3 card only) (38-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-62) NO EX	CONCENTRATION (4 card only) (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX	(64-68) FREQUENCY OF ANALYSIS	(68-70) SAMPLE TYPE
	REPORTED	NO FLOW AT THIS OUTFALL.			10^6								Calculation
FLOW	PERMIT CONDITION				Gallons							*/30	Calculation
pH	REPORTED												Grab
(00440)	PERMIT CONDITION						6		9			*/30	Grab
TOTAL	REPORTED												Storm Composite
SUSPENDED SOLIDS	PERMIT CONDITION								30	mg/l		*/30	Storm Composite
POLYCHLORINATED	REPORTED												Storm Composite
BIPHENYLS	PERMIT CONDITION								0.005	mg/l		*/30	Storm Composite
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER	TITLE OF THE OFFICER	DATE			
SCHNEIDER, TERRY D.	PLANT MANAGER	00	03	24	I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate.
LAST FIRST MI	TITLE	YEAR	MO	DAY	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532-0092
WPC 242 11/79

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044 020

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: *OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION*

ADDRESS: *100 SEA-HORSE DRIVE*
WAUKEGAN, IL 60085 *ATTN: ANTHONY MONTEMURRO*

PHONE: *(847)689-5363*

COMMENTS

** SAMPLES REQUIRED FOR EACH PRECIPITATION EVENT GREATER THAN 0.3 INCHES IN A 24 HOUR PERIOD*

STORM WATER DISCHARGES FROM THIS OUTFALL HAVE BEEN DIRECTED TO THE STORM WATER RETENTION POND. THE POND DISCHARGE HAS BEEN DESIGNATED OUTFALL 017.

(2-3)	(4-16)	(17-19)			
IL	0002267	016	3519	42° 22' 19"	87° 49' 15"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM	(20-21)	(22-23)	(24-25)	TO	(26-27)	(28-29)	(30-31)
	0 0	0 2	0 1		0 0	0 2	2 9
	YEAR	MO	DAY		YEAR	MO	DAY

(32-37) PARAMETER		QUANTITY (5 card only) (38-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-62) NO EX.	CONCENTRATION (4 card only) (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX	(64-68) FREQUENCY OF ANALYSIS	(68-70) SAMPLE TYPE
	REPORTED	NO FLOW AT THIS OUTFALL.			10^6								Calculation
FLOW	PERMIT CONDITION				Gallons							*/30	Calculation
pH	REPORTED												Grab
(00440)	PERMIT CONDITION						6		9			*/30	Grab
TOTAL	REPORTED												Storm Composite
SUSPENDED SOLIDS	PERMIT CONDITION								30	mg/l		*/30	Storm Composite
POLYCHLORINATED	REPORTED												Storm Composite
BIPHENYLS	PERMIT CONDITION								0.005	mg/l		*/30	Storm Composite
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER	TITLE OF THE OFFICER	DATE			
SCHNEIDER, TERRY D.	PLANT MANAGER	0 0	0 3	2 4	I certify that I am familiar with the information contained in this report and that to the best of my knowledge and Belief such information is true, complete, and accurate
LAST FIRST MI	TITLE	YEAR	MO	DAY	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

T. Schneider

IL532-0092
WPC 242 11/79

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044-020

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DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: *OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION*

ADDRESS: *100 SEA-HORSE DRIVE*
WAUKEGAN, IL 60085 *ATTN: ANTHONY MONTEMURRO*

PHONE: *(847)689-5363*

COMMENTS

** SAMPLES REQUIRED FOR EACH PRECIPITATION EVENT GREATER THAN 0.3 INCHES IN A 24 HOUR PERIOD*
*** No samples exceeding 0.3" in 24 hour during this reporting period*

THIS DISCHARGE IS FROM THE STORM RETENTION POND, CONSTRUCTED AS AGREED TO IN THE CONSENT DECREE ENTERED IN NRDC V. OMC, N.D. ILL. 87 C 4648

(2-3) ST	(4-16) PERMIT NUMBER	(17-19) DIS	SIC	LATITUDE	LONGITUDE
IL	*0002267*	*017*	*3519*	*42° 22' 19"*	*87° 49' 15"*

REPORTING PERIOD FROM	(20-21) YEAR	(22-23) MO	(24-25) DAY	TO	(26-27) YEAR	(28-29) MO	(30-31) DAY
	0 0	*0 2*	*0 1*		*0 0*	*0 2*	*2 9*

(32-37) PARAMETER		3 card only QUANTITY (38-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-62) NO EX.	4 card only CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX.	(64-68) FREQUENCY OF ANALYSIS	(58-70) SAMPLE TYPE
	REPORTED	**	**	**	10^6	0						*/30	Calculation
FLOW	PERMIT CONDITION				Gallons							*/30	Calculation
pH	REPORTED						**	**	**		0	*1/30	Grab
(00440)	PERMIT CONDITION						6		9			*/30	Grab
TOTAL	REPORTED						**	**	**		0	*/30	Storm Composite
SUSPENDED SOLIDS	PERMIT CONDITION									mg/l		*/30	Storm Composite
POLYCHLORINATED	REPORTED						**	**	**		0	*/30	Storm Composite
BIPHENYLS	PERMIT CONDITION									mg/l		*/30	Storm Composite
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER	DATE		
SCHNEIDER,	*TERRY*	*D.*	*PLANT MANAGER*	*0 0*	*0 3*	*2 4*
LAST	FIRST	MI	TITLE	YEAR	MO	DAY

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate

T. Schneider

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532-0092
WPC 242 11/79

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044 020

OMC®

OUTBOARD MARINE CORPORATION

100 Sea Horse Drive
Waukegan, Illinois 60085-2195
Phone 847/689-6200

April 27, 2000

Mr. Dan Ray
Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, IL 62702

Re: Discharge Monitoring Report - March 2000
NPDES Permit No. IL 0002267

Dear Mr. Ray:

Enclosed is the March 2000 Discharge Monitoring Report for the OMC Waukegan facility. If you have any questions regarding these matters, I can be contacted at 847 / 689-5363.

Sincerely,

Anthony M. Montemurro, CHMM
Environmental Specialist
Outboard Marine Corporation

encl.

cc: J. R. Crawford
J. Moran

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: *OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION*

ADDRESS: *100 SEA-HORSE DRIVE*
WAUKEGAN, IL 60085 *ATTN: ANTHONY MONTEMURRO*

PHONE: *(847)689-5363*

COMMENTS

(2-3) ST	(4-16) PERMIT NUMBER	(17-19) DIS	SIC	LATITUDE	LONGITUDE
IL	0002267	001	3519	42°21'48"	87°49'18"

REPORTING PERIOD FROM (20-21) YEAR 00 (22-23) MO 03 (24-25) DAY 01 TO (26-27) YEAR 00 (28-29) MO 03 (30-31) DAY 31

(32-37) PARAMETER		3 card only QUANTITY (38-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-62) NO EX.	4 card only CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX.	(64-68) FREQUENCY OF ANALYSIS	(68-70) SAMPLE TYPE
	REPORTED	0.204	0.366	0.657	10^6	0						4/30	24 HOUR
FLOW	PERMIT CONDITION				Gallons							1/30	24 HOUR
pH	REPORTED						7.2	7.2	7.2		0	1/30	GRAB
(00440)	PERMIT CONDITION						6		9			1/30	GRAB
TEMPERATURE	REPORTED						52	52	52		0	1/30	GRAB
(00010)	PERMIT CONDITION									°F		1/30	GRAB
POLYCHLORINATED	REPORTED						<0.0005	0.0005	0.00064		0	1/7	24 HOUR
BIPHENYLS	PERMIT CONDITION								0.005	Mg/l		1/7	24 HOUR
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER	DATE		
SCHNEIDER,	TERRY	D.	PLANT MANAGER	00	04	25
LAST	FIRST	MI	TITLE	YEAR	MO	DAY

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate.

T. Schneider

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532-0092
WPC 242 11/79

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044-020

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

ADDRESS: 100 SEA-HORSE DRIVE
WAUKEGAN, IL. 60085 ATTN: ANTHONY MONTEMURRO

PHONE: (847)689-5363

COMMENTS:

* DUE TO THE INSTALLATION OF A CLOSED LOOP COOLING SYSTEM IN DECEMBER 1993, DISCHARGE FROM THIS OUTFALL HAS BEEN ELIMINATED.

(2-3)	(4-16)	(17-19)			
IL	0002267	006	3519	42°21'51"	87°49'17"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM 00 (YEAR) 03 (MO) 01 (DAY) TO 00 (YEAR) 03 (MO) 31 (DAY)

(32-37) PARAMETER		QUANTITY (2 card only) MINIMUM (38-34)	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS (62-62)	NO EX.	CONCENTRATION (4 card only) MINIMUM (38-45)	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS (62-63)	NO EX.	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (68-70)
	REPORTED	*	*	*	10^6		*	*	*				24 HOUR
FLOW	PERMIT CONDITION				Gallons							1/7	24 HOUR
pH	REPORTED						*	*	*				GRAB
(00440)	PERMIT CONDITION						6		9			1/30	GRAB
TEMPERATURE	REPORTED						*	*	*				GRAB
(00010)	PERMIT CONDITION									°F		1/30	GRAB
OIL & GREASE	REPORTED						*	*	*				GRAB
(00550)	PERMIT CONDITION							15	30	mg/l		1/30	GRAB
POLYCHLORINATED	REPORTED						*	*	*				24 HOUR
BIPHENYLS	PERMIT CONDITION								0.005	mg/l		1/7	24 HOUR
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER	TITLE OF THE OFFICER	DATE			
SCHNEIDER, TERRY D.	PLANT MANAGER	00	04	25	I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate.
LAST FIRST MI	TITLE	YEAR	MO	DAY	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

T. Schneider / Dm

IL532-0092
WPC 242 11/79

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044-020

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

ADDRESS: 100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085 ATTN: ANTHONY MONTEMURRO

PHONE: (847)689-5363

COMMENTS

(2-3) ST	(4-16) PERMIT NUMBER	(17-19) DIS	SIC	LATITUDE	LONGITUDE
IL	0002267	007	3519	42° 22' 6"	87° 48' 54"

REPORTING PERIOD FROM (20-21) YEAR 00 (22-23) MO 03 (24-25) DAY 01 TO (26-27) YEAR 00 (28-29) MO 03 (30-31) DAY 31

(32-37) PARAMETER		3 card only QUANTITY (38-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-62) NO EX.	4 card only CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX.	(64-68) FREQUENCY OF ANALYSIS	(68-70) SAMPLE TYPE
	REPORTED	0.103	0.143	0.186	10^6	0						2/7	24 HOUR
FLOW	PERMIT CONDITION				Gallons							2/7	24 HOUR
pH	REPORTED						7.1	7.05	7.1		0	2/30	GRAB
(00440)	PERMIT CONDITION						6		9			1/30	GRAB
TEMPERATURE	REPORTED						55.1	55.15	55.2		0	2/30	GRAB
(00010)	PERMIT CONDITION									°F		1/30	GRAB
POLYCHLORINATED	REPORTED						<0.0005	<0.0005	<0.0005		0	2/7	24 HOUR
BIPHENYLS	PERMIT CONDITION							0.001	0.005	mg/l		2/7	24 HOUR
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER	DATE		
SCHNEIDER,	TERRY	D.	PLANT MANAGER	00	04	25
LAST	FIRST	MI	TITLE	YEAR	MO	DAY

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate.

T. Schneider

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532-0092
WPC 242 11/79

This Agency is authorized to require this information under Illinois Revised Statutes 1979, Chapter 111 ½, Section 1042. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $10,000.00 per day of violation or a fine up to $25,000.00 per day of violation and imprisonment up to one year. This form has been approved by the Forms Management Center.

044-020

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: *OMC WAUKEGAN – FACILITY OF OUTBOARD MARINE CORPORATION*

ADDRESS: *100 SEA-HORSE DRIVE*
WAUKEGAN, IL 60085 *ATTN: ANTHONY MONTEMURRO*

PHONE: *(847)689-5363*

COMMENTS

**No flow at this outfall during this reporting period. This discharge conveys overflow from outfall 007 only.*

(2-3) ST	(4-16) PERMIT NUMBER	(17-19) DIS	SIC	LATITUDE	LONGITUDE
IL	0002267	008	3519	42° 22' 4"	87° 49' 14"

REPORTING PERIOD FROM (20-21) YEAR 00 (22-23) MO 03 (24-25) DAY 01 TO (26-27) YEAR 00 (28-29) MO 03 (30-31) DAY 31

(32-37) PARAMETER		3 card only QUANTITY (38-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-62) NO EX.	4 card only CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX.	(64-68) FREQUENCY OF ANALYSIS	(68-70) SAMPLE TYPE
FLOW	REPORTED	No Flow*	No Flow*	No Flow*	10^6	0						2/7	24 HOUR
	PERMIT CONDITION				Gallons							2/7	24 HOUR
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER	DATE		
SCHNEIDER,	TERRY	D.	PLANT MANAGER	00	04	25
LAST	FIRST	MI	TITLE	YEAR	MO	DAY

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and Belief such information is true, complete, and accurate.

T. Schneider

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532-0992
WPC 242 11/79

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044-020

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

ADDRESS: 100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085 ATTN: ANTHONY MONTEMURRO

PHONE: (847)689-5363

COMMENTS

STORM WATER DISCHARGES FROM THIS OUTFALL HAVE BEEN DIRECTED TO THE STORM WATER RETENTION POND. THE POND DISCHARGE HAS BEEN DESIGNATED TO OUTFALL 017.

(2-3)	(4-16)	(17-19)			
IL	0002267	014	3519	42°22' 15"	87°49' 18"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM 00 (YEAR) 03 (MO) 01 (DAY) TO 00 (YEAR) 03 (MO) 31 (DAY)

(32-37) PARAMETER		3 card only QUANTITY (38-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-62) NO EX.	4 card only CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX.	(64-68) FREQUENCY OF ANALYSIS	(68-70) SAMPLE TYPE
	REPORTED	NO FLOW AT THIS OUTFALL.			10^6								24 HOUR
FLOW	PERMIT CONDITION				Gallons							2/7	24 HOUR
pH	REPORTED												GRAB
(00440)	PERMIT CONDITION						6		9			1/30	GRAB
TEMPERATURE	REPORTED												GRAB
(00010)	PERMIT CONDITION									°F		1/30	GRAB
POLYCHLORINATED	REPORTED												24 HOUR
BIPHENYLS	PERMIT CONDITION							0.001	0.005	mg/l		2/7	24 HOUR
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER	DATE		
SCHNEIDER,	TERRY	D.	PLANT MANAGER	00	03	25
LAST	FIRST	MI	TITLE	YEAR	MO	DAY

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate.

T. Schneider / Dla

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532-0092
WPC 242 11/79

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044-020

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: *OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION*

ADDRESS: *100 SEA-HORSE DRIVE*
WAUKEGAN, IL 60085 *ATTN: ANTHONY MONTEMURRO*

PHONE: *(847)689-5363*

COMMENTS

** SAMPLES REQUIRED FOR EACH PRECIPITATION EVENT GREATER THAN 0.3 INCHES IN A 24 HOUR PERIOD*

STORM WATER DISCHARGES FROM THIS OUTFALL HAVE BEEN DIRECTED TO THE STORM WATER RETENTION POND. THE POND DISCHARGE HAS BEEN DESIGNATED OUTFALL 017.

(2-3)	(4-16)	(17-19)		
IL	0002267	015	3519	42° 22' 19" / 87° 48' 59"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE / LONGITUDE

REPORTING PERIOD FROM (20-21) YEAR 0 0 (22-23) MO 0 3 (24-25) DAY 0 1 TO (26-27) YEAR 0 0 (28-29) MO 0 3 (30-31) DAY 3 1

(32-37) PARAMETER		3 card only QUANTITY (38-44) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-62) NO EX.	4 card only CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX.	(64-68) FREQUENCY OF ANALYSIS	(68-70) SAMPLE TYPE
	REPORTED	NO FLOW AT THIS OUTFALL.			10^6								Calculation
FLOW	PERMIT CONDITION				Gallons	■					■	*/30	Calculation
pH	REPORTED												Grab
(00440)	PERMIT CONDITION					■	6		9		■	*/30	Grab
TOTAL	REPORTED												Storm Composite
SUSPENDED SOLIDS	PERMIT CONDITION					■			30	mg/l	■	*/30	Storm Composite
POLYCHLORINATED	REPORTED												Storm Composite
BIPHENYLS	PERMIT CONDITION					■			0.005	mg/l	■	*/30	Storm Composite
	REPORTED												
	PERMIT CONDITION					■					■		
	REPORTED												
	PERMIT CONDITION					■					■		
	REPORTED												
	PERMIT CONDITION					■					■		

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER	DATE		
SCHNEIDER,	TERRY	D.	PLANT MANAGER	0 0	0 4	2 5
LAST	FIRST	MI	TITLE	YEAR	MO	DAY

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and Belief such information is true, complete, and accurate.

T. Schneider

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532-0092
WPC 242 11/79

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044-020

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

ADDRESS: 100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085 ATTN: ANTHONY MONTEMURRO

PHONE: (847)689-5363

COMMENTS

* SAMPLES REQUIRED FOR EACH PRECIPITATION EVENT GREATER THAN 0.3 INCHES IN A 24 HOUR PERIOD

STORM WATER DISCHARGES FROM THIS OUTFALL HAVE BEEN DIRECTED TO THE STORM WATER RETENTION POND. THE POND DISCHARGE HAS BEEN DESIGNATED OUTFALL 017.

(2-3)	(4-16)	(17-19)			
IL	0002267	016	3519	42° 22' 19"	87° 49' 15"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM	(20-21) YEAR	(22-23) MO	(24-25) DAY	TO	(26-27) YEAR	(28-29) MO	(30-31) DAY
	0 0	0 3	0 1		0 0	0 3	3 1

(32-37) PARAMETER		3 card only QUANTITY (38-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-62) NO EX.	4 card only CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX.	(64-68) FREQUENCY OF ANALYSIS	(68-70) SAMPLE TYPE
	REPORTED	NO FLOW AT THIS OUTFALL.			10^6								Calculation
FLOW	PERMIT CONDITION				Gallons							*/30	Calculation
pH	REPORTED												Grab
(00440)	PERMIT CONDITION						6		9			*/30	Grab
TOTAL	REPORTED												Storm Composite
SUSPENDED SOLIDS	PERMIT CONDITION								30	mg/l		*/30	Storm Composite
POLYCHLORINATED	REPORTED												Storm Composite
BIPHENYLS	PERMIT CONDITION								0.005	mg/l		*/30	Storm Composite
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER	DATE		
SCHNEIDER,	TERRY	D.	PLANT MANAGER	0 0	0 4	2 5
LAST	FIRST	MI	TITLE	YEAR	MO	DAY

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and Belief such information is true, complete, and accurate.

T. Schneider

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532-0092
WPC 242 11/79

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044-020

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: *OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION*

ADDRESS: *100 SEA-HORSE DRIVE*
WAUKEGAN, IL 60085 *ATTN: ANTHONY MONTEMURRO*

PHONE: *(847)689-5363*

COMMENTS

** SAMPLES REQUIRED FOR EACH PRECIPITATION EVENT GREATER THAN 0.3 INCHES IN A 24 HOUR PERIOD*
*** No samples exceeding 0.3" in 24 hour during this reporting period*

THIS DISCHARGE IS FROM THE STORM RETENTION POND, CONSTRUCTED AS AGREED TO IN THE CONSENT DECREE ENTERED IN NRDC V. OMC, N.D. ILL. 87 C 4648

(2-3)	(4-16)	(17-19)			
IL	*0002267*	*017*	*3519*	*42° 22' 19"*	*87° 49' 15"*
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM	(20-21) YEAR	(22-23) MO	(24-25) DAY	TO	(26-27) YEAR	(28-29) MO	(30-31) DAY
	0 0	0 3	0 1		0 0	0 3	3 1

(32-37) PARAMETER		3 card only QUANTITY (38-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-62) NO EX.	4 card only CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX.	(64-66) FREQUENCY OF ANALYSIS	(68-70) SAMPLE TYPE
	REPORTED	**	**	**	10^6	0						*/30	Calculation
FLOW	PERMIT CONDITION				Gallons							*/30	Calculation
pH	REPORTED						**	**	**		0	*1/30	Grab
(00440)	PERMIT CONDITION						6		9			*/30	Grab
TOTAL	REPORTED						**	**	**		0	*/30	Storm Composite
SUSPENDED SOLIDS	PERMIT CONDITION									mg/l		*/30	Storm Composite
POLYCHLORINATED	REPORTED						**	**	**		0	*/30	Storm Composite
BIPHENYLS	PERMIT CONDITION									mg/l		*/30	Storm Composite
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER	DATE		
SCHNEIDER,	TERRY	D.	PLANT MANAGER	0 0	0 4	2 5
LAST	FIRST	MI	TITLE	YEAR	MO	DAY

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate.

T. Schneider

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532-0092
WPC 242 11/79

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044-0[illegible]

OMC

OUTBOARD MARINE CORPORATION

100 Sea Horse Drive
Waukegan, Illinois 60085-2195
Phone 847/689-6200

May 25, 2000

Mr. Dan Ray
Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, IL 62702

Re: Discharge Monitoring Report - April 2000
NPDES Permit No. IL 0002267

Dear Mr. Ray:

Enclosed is the April 2000 Discharge Monitoring Report for the OMC Waukegan facility. If you have any questions regarding these matters, I can be contacted at 847 / 689-5363.

Sincerely,

Anthony Montemurro

Anthony M. Montemurro, CHMM
Environmental Specialist
Outboard Marine Corporation

encl.

cc: J. R. Crawford
J. Moran

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

COMMENTS

ADDRESS: 100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085 ATTN: ANTHONY MONTEMURRO

PHONE: (847)689-5363

(2-3) ST	(4-16) PERMIT NUMBER	(17-19) DIS	SIC	LATITUDE	LONGITUDE
IL	0002267	001	3519	42° 21' 48"	87° 49' 18"

REPORTING PERIOD FROM (20-21) YEAR 0 0 (22-23) MO 0 4 (24-25) DAY 0 1 TO (26-27) YEAR 0 0 (28-29) MO 0 4 (30-31) DAY 3 0

(32-37) PARAMETER		3 card only QUANTITY (38-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-62) NO EX	4 card only CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX	(64-68) FREQUENCY OF ANALYSIS	(69-70) SAMPLE TYPE
	REPORTED	0.246	0.612	0.749	10^6	0						4/30	24 HOUR
FLOW	PERMIT CONDITION				Gallons							1/30	24 HOUR
pH	REPORTED						6.8	6.8	6.8		0	1/30	GRAB
(00440)	PERMIT CONDITION						6		9			1/30	GRAB
TEMPERATURE	REPORTED						60.8	60.8	60.8		0	1/30	GRAB
(00010)	PERMIT CONDITION									°F		1/30	GRAB
POLYCHLORINATED	REPORTED						<0.0005	0.00051	0.00054		0	1/7	24 HOUR
BIPHENYLS	PERMIT CONDITION								0.005	Mg/l		1/7	24 HOUR
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER	TITLE OF THE OFFICER	DATE	
SCHNEIDER, TERRY D. (LAST, FIRST, MI)	PLANT MANAGER (TITLE)	YEAR 0 0, MO 0 5, DAY 2 5	

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true complete and accurate

Terry D. Schneider

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532-0092
WPC 242 11/79

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[redacted]ONAL [redacted]UTAN[redacted]HARGE [redacted]NATIO[redacted]TEM [redacted]

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: *OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION*

ADDRESS: *100 SEA-HORSE DRIVE*
WAUKEGAN, IL. 60085 *ATTN: ANTHONY MONTEMURRO*

PHONE: *(847)689-5363*

COMMENTS

** DUE TO THE INSTALLATION OF A CLOSED LOOP COOLING SYSTEM IN DECEMBER 1993, DISCHARGE FROM THIS OUTFALL HAS BEEN ELIMINATED.*

(2-3) ST	(4-16) PERMIT NUMBER	(17-19) DIS	SIC	LATITUDE	LONGITUDE
IL	0002267	006	3519	42° 21' 51"	87° 49' 17"

REPORTING PERIOD FROM	(20-21) YEAR	(22-23) MO	(24-25) DAY	TO	(26-27) YEAR	(28-29) MO	(30-31) DAY
	0 0	0 4	0 1		0 0	0 4	3 0

(32-37) PARAMETER		QUANTITY (3 card only) (38-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62 62) NO EX.	CONCENTRATION (4 card only) (38-45) MINIMUM	(46-53) AVERAGE	(54 61) MAXIMUM	UNITS	(62 63) NO EX	(64-68) FREQUENCY OF ANALYSIS	(68 70) SAMPLE TYPE
	REPORTED	*	*	*	10^6		*	*	*				24 HOUR
FLOW	PERMIT CONDITION				Gallons							1/7	24 HOUR
pH	REPORTED						*	*	*				GRAB
(00440)	PERMIT CONDITION						6		9			1/30	GRAB
TEMPERATURE	REPORTED						*	*	*				GRAB
(00010)	PERMIT CONDITION									°F		1/30	GRAB
OIL & GREASE	REPORTED						*	*	*				GRAB
(00550)	PERMIT CONDITION							15	30	mg/l		1/30	GRAB
POLYCHLORINATED	REPORTED						*	*	*				24 HOUR
BIPHENYLS	PERMIT CONDITION								0.005	mg/l		1/7	24 HOUR
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER	TITLE OF THE OFFICER	DATE
SCHNEIDER, TERRY D.	PLANT MANAGER	0 0 / 0 5 / 2 5
LAST FIRST MI	TITLE	YEAR / MO / DAY

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true complete and accurate

Terry D. Schneider

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532-0092
WPC 242 11/79

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044 020

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: *OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION*

ADDRESS: *100 SEA-HORSE DRIVE*
WAUKEGAN, IL 60085 *ATTN: ANTHONY MONTEMURRO*

PHONE: *(847)689-5363*

COMMENTS

(2-3)	(4-16)	(17-19)			
IL	*0002267*	*007*	*3519*	*42° 22' 6"*	*87° 48' 54"*
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM (20-21) YEAR *0 0* (22-23) MO *0 4* (24-25) DAY *0 1* TO (26-27) YEAR *0 0* (28-29) MO *0 4* (30-31) DAY *3 0*

(32-37) PARAMETER		3 card only QUANTITY (38-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-62) NO EX.	4 card only CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX	(64-68) FREQUENCY OF ANALYSIS	(68-70) SAMPLE TYPE
	REPORTED	*0.164*	*0.487*	*1.109*	*10^6*	*0*						*2/7*	*24 HOUR*
FLOW	PERMIT CONDITION				*Gallons*							*2/7*	*24 HOUR*
pH	REPORTED						*7.0*	*7.05*	*7.1*		*0*	*2/30*	*GRAB*
(00440)	PERMIT CONDITION						*6*		*9*			*1/30*	*GRAB*
TEMPERATURE	REPORTED						*57.2*	*57.2*	*57.2*		*0*	*2/30*	*GRAB*
(00010)	PERMIT CONDITION									*°F*		*1/30*	*GRAB*
POLYCHLORINATED	REPORTED						*<0.0005*	*<0.0005*	*<0.0005*		*0*	*2/7*	*24 HOUR*
BIPHENYLS	PERMIT CONDITION							*0.001*	*0.005*	*mg/l*		*2/7*	*24 HOUR*
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER	DATE		
SCHNEIDER,	*TERRY*	*D*	*PLANT MANAGER*	*0 0*	*0 5*	*2 5*
LAST	FIRST	MI	TITLE	YEAR	MO	DAY

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true complete and accurate

Terry D. Schneider

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532-0092
WPC 242 1/79

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044 020

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: *OMC WAUKEGAN -- FACILITY OF OUTBOARD MARINE CORPORATION*

ADDRESS: *100 SEA-HORSE DRIVE*
WAUKEGAN, IL 60085 *ATTN: ANTHONY MONTEMURRO*

PHONE: *(847)689-5363*

COMMENTS

**No flow at this outfall during this reporting period. This discharge conveys overflow from outfall 007 only.*

(2-3) ST	(4-16) PERMIT NUMBER	(17-19) DIS	SIC	LATITUDE	LONGITUDE
IL	*0002267*	*008*	*3519*	*42° 22' 4"*	*87° 49' 14"*

REPORTING PERIOD FROM (20-21) YEAR *0 0* (22-23) MO *0 4* (24-25) DAY *0 1* TO (26-27) YEAR *0 0* (28-29) MO *0 4* (30-31) DAY *3 0*

(32-37) PARAMETER		3 card only QUANTITY (38-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-62) NO EX.	4 card only CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX	(64-68) FREQUENCY OF ANALYSIS	(68-70) SAMPLE TYPE
FLOW	REPORTED	*No Flow**	*No Flow**	*No Flow**	*10^6 Gallons*	*0*						*2/7*	*24 HOUR*
	PERMIT CONDITION											*2/7*	*24 HOUR*
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER	TITLE OF THE OFFICER	DATE
SCHNEIDER, TERRY D.	*PLANT MANAGER*	*0 0* YEAR *0 5* MO *2 5* DAY
LAST FIRST MI	TITLE	

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and Belief such information is true, complete and accurate

Terry D. Schneider

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532-0092
WPC 242 1/79

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0-44 020

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: *OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION*

ADDRESS: *100 SEA-HORSE DRIVE*
WAUKEGAN, IL 60085 *ATTN: ANTHONY MONTEMURRO*

PHONE: *(847)689-5363*

COMMENTS

STORM WATER DISCHARGES FROM THIS OUTFALL HAVE BEEN DIRECTED TO THE STORM WATER RETENTION POND. THE POND DISCHARGE HAS BEEN DESIGNATED TO OUTFALL 017.

(2-3)	(4-16)	(17-19)			
IL	*0002267*	*014*	*3519*	*42° 22' 15"*	*87° 49' 18"*
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM (20-21) (22-23) (24-25) *0 0* YEAR *0 4* MO *0 1* DAY TO (26-27) (28-29) (30-31) *0 0* YEAR *0 4* MO *3 0* DAY

PARAMETER (32-37)		QUANTITY (3 card only) MINIMUM (38-34)	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	NO EX (62-62)	CONCENTRATION (4 card only) MINIMUM (38-45)	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	NO EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (68-70)
	REPORTED	*NO FLOW AT THIS OUTFALL.*			*10^6*								*24 HOUR*
FLOW	PERMIT CONDITION				*Gallons*							*2/7*	*24 HOUR*
pH	REPORTED												*GRAB*
(00440)	PERMIT CONDITION						*6*		*9*			*1/30*	*GRAB*
TEMPERATURE	REPORTED												*GRAB*
(00010)	PERMIT CONDITION									°F		*1/30*	*GRAB*
POLYCHLORINATED	REPORTED												*24 HOUR*
BIPHENYLS	PERMIT CONDITION							*0.001*	*0.005*	*mg/l*		*2/7*	*24 HOUR*
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER	TITLE OF THE OFFICER	DATE
SCHNEIDER, TERRY D.	*PLANT MANAGER*	*0 0* YEAR *0 5* MO *2 5* DAY
LAST FIRST MI	TITLE	

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true complete and accurate

Terry D. Schneider

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532-0092
WPC 242 11/79

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C-14 020

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: *OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION*

ADDRESS: *100 SEA-HORSE DRIVE*
WAUKEGAN, IL 60085 *ATTN: ANTHONY MONTEMURRO*

PHONE: *(847)689-5363*

COMMENTS

** SAMPLES REQUIRED FOR EACH PRECIPITATION EVENT GREATER THAN 0.3 INCHES IN A 24 HOUR PERIOD*

STORM WATER DISCHARGES FROM THIS OUTFALL HAVE BEEN DIRECTED TO THE STORM WATER RETENTION POND. THE POND DISCHARGE HAS BEEN DESIGNATED OUTFALL 017.

(2-3)	(4-16)	(17-19)			
IL	*0002267*	*015*	*3519*	*42° 22' 19"*	*87° 48' 59"*
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM (20-21) (22-23) (24-25): *0 0* YEAR, *0 4* MO, *0 1* DAY TO (26-27) (28-29) (30-31): *0 0* YEAR, *0 4* MO, *3 0* DAY

(32-37) PARAMETER		QUANTITY (3 card only) MINIMUM (38-34)	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	NO EX (62-62)	CONCENTRATION (4 card only) MINIMUM (38-45)	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	NO EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (68-70)
	REPORTED	*NO FLOW AT THIS OUTFALL.*			*10^6*								*Calculation*
FLOW	PERMIT CONDITION				*Gallons*	■					■	**/30*	*Calculation*
pH	REPORTED												*Grab*
(00440)	PERMIT CONDITION					■	*6*		*9*		■	**/30*	*Grab*
TOTAL	REPORTED												*Storm Composite*
SUSPENDED SOLIDS	PERMIT CONDITION					■			*30*	*mg/l*	■	**/30*	*Storm Composite*
POLYCHLORINATED	REPORTED												*Storm Composite*
BIPHENYLS	PERMIT CONDITION					■			*0.005*	*mg/l*	■	**/30*	*Storm Composite*
	REPORTED												
	PERMIT CONDITION					■					■		
	REPORTED												
	PERMIT CONDITION					■					■		
	REPORTED												
	PERMIT CONDITION					■					■		

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER	DATE			
SCHNEIDER,	*TERRY*	*D.*	*PLANT MANAGER*	*0 0*	*0 4*	*2 5*	*I certify that I am familiar with the information contained in this report and that to the best of my knowledge and Belief such information is true complete and accurate*
LAST	FIRST	MI	TITLE	YEAR	MO	DAY	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532-0092
WPC 242 11/79

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044 020

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: *OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION*

ADDRESS: *100 SEA-HORSE DRIVE*
WAUKEGAN, IL 60085 *ATTN: ANTHONY MONTEMURRO*

PHONE: *(847)689-5363*

COMMENTS

** SAMPLES REQUIRED FOR EACH PRECIPITATION EVENT GREATER THAN 0.3 INCHES IN A 24 HOUR PERIOD*

STORM WATER DISCHARGES FROM THIS OUTFALL HAVE BEEN DIRECTED TO THE STORM WATER RETENTION POND. THE POND DISCHARGE HAS BEEN DESIGNATED OUTFALL 017.

(2-3) ST	(4-16) PERMIT NUMBER	(17-19) DIS	SIC	LATITUDE	LONGITUDE
IL	0002267	016	3519	42° 22' 19"	87° 49' 15"

REPORTING PERIOD FROM	(20-21) YEAR	(22-23) MO	(24-25) DAY	TO	(26-27) YEAR	(28-29) MO	(30-31) DAY
	0 0	0 4	0 1		0 0	0 4	3 0

(32-37) PARAMETER		QUANTITY (0 card only) (38-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62 62) NO EX	CONCENTRATION (4 card only) (38 45) MINIMUM	(46-53) AVERAGE	(54 61) MAXIMUM	UNITS	(62 63) NO EX	(64 68) FREQUENCY OF ANALYSIS	(68 70) SAMPLE TYPE
	REPORTED	NO FLOW AT THIS OUTFALL.			10^6								Calculation
FLOW	PERMIT CONDITION				Gallons							*/30	Calculation
pH	REPORTED												Grab
(00440)	PERMIT CONDITION						6		9			*/30	Grab
TOTAL	REPORTED												Storm Composite
SUSPENDED SOLIDS	PERMIT CONDITION								30	mg/l		*/30	Storm Composite
POLYCHLORINATED	REPORTED												Storm Composite
BIPHENYLS	PERMIT CONDITION								0.005	mg/l		*/30	Storm Composite
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER	DATE		
SCHNEIDER,	TERRY	D.	PLANT MANAGER	0 0	0 5	2 5
LAST	FIRST	MI	TITLE	YEAR	MO	DAY

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and Belief such information is true, complete and accurate

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532-0092
WPC 242 11/79

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044 020

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: *OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION*

ADDRESS: *100 SEA-HORSE DRIVE*
WAUKEGAN, IL 60085 *ATTN: ANTHONY MONTEMURRO*

PHONE: *(847)689-5363*

COMMENTS

** SAMPLES REQUIRED FOR EACH PRECIPITATION EVENT GREATER THAN 0.3 INCHES IN A 24 HOUR PERIOD*

THIS DISCHARGE IS FROM THE STORM RETENTION POND, CONSTRUCTED AS AGREED TO IN THE CONSENT DECREE ENTERED IN NRDC V. OMC, N.D. ILL. 87 C 4648

(2-3)	(4-16)	(17-19)			
IL	*0002267*	*017*	*3519*	*42° 22' 19"*	*87° 49' 15"*
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM	(20-21)	(22-23)	(24-25)	TO	(26-27)	(28-29)	(30-31)
	0 0	*0 4*	*0 1*		*0 0*	*0 4*	*3 0*
	YEAR	MO	DAY		YEAR	MO	DAY

(32-37) PARAMETER		3 card only QUANTITY (38-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-62) NO EX.	4 card only CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX	(64-68) FREQUENCY OF ANALYSIS	(68-70) SAMPLE TYPE
	REPORTED	*0.386*	*0.454*	*0.522*	*10^6*	*0*						*2/30*	*Calculation*
FLOW	PERMIT CONDITION				*Gallons*							**/30*	*Calculation*
pH	REPORTED						*7.1*	*7.15*	*7.2*		*0*	*2/30*	*Grab*
(00440)	PERMIT CONDITION						*6*		*9*			**/30*	*Grab*
TOTAL	REPORTED						*10*	*13.5*	*17*		*0*	*2/30*	*Storm Composite*
SUSPENDED SOLIDS	PERMIT CONDITION									*mg/l*		**/30*	*Storm Composite*
POLYCHLORINATED	REPORTED						*<0.0005*	*<0.0005*	*<0.0005*		*0*	*2/30*	*Storm Composite*
BIPHENYLS	PERMIT CONDITION									*mg/l*		**/30*	*Storm Composite*
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER	DATE		
SCHNEIDER,	*TERRY*	*D.*	*PLANT MANAGER*	*0 0*	*0 5*	*2 5*
LAST	FIRST	MI	TITLE	YEAR	MO	DAY

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete and accurate

Terry D. Schneider

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

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WPC 242 11/79

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044 020

ATTACHMENT 2

GROUNDWATER SAMPLING DATA

2a SAMPLE ANALYSIS
2b SAMPLING FIELD LOG

2a

SAMPLE ANALYSIS

1.0 Summary Report

1.1 Laboratory Report

Cover Page
Laboratory Narrative
Laboratory Results

KEMRON Environmental Services
109 Starlite Park
Marietta, Ohio 45750
Phone: (740) 373-4071

Outboard Marine Corporation
190 Sea Horse Drive
Waukegan, IL 60085

Attention: Mr. Tony Montemurro

PO Number:
Account Number: OUTBOARD-379

Login #: L0004550
Report Date: 05/04/00
Work ID: CMC WAUKEGAN SEMI ANNUAL
Date Received: 04/27/00

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
L0004550-01	W-1	L0004550-02	W-2
L0004550-03	W-3	L0004550-04	W-4
L0004550-05	W-5	L0004550-06	W-5F
L0004550-07	W-6	L0004550-08	W-7
L0004550-09	W-8	L0004550-10	W-9
L0004550-11	W-10	L0004550-12	W-10D
L0004550-13	W-10/MS	L0004550-14	W-10/MSD
L0004550-16	W-11	L0004550-17	W-12
L0004550-18	W-12D		

RECEIVED
MAY 11 2000
A.M. MONTEMURRO

CC: Mark Traxler
One Plymoth Meeting
Plymoth Meeting PA 19462

All results on solids/sludges are reported on a dry weight basis, where applicable, unless otherwise specified. This report shall not be reproduced, except in full, without the written approval of KEMRON.

NYSDOH ELAP ID: 10861

Certified By
David L. Bumgarner

KEMRON
ENVIRONMENTAL SERVICES

KEMRON ENVIRONMENTAL SERVICES
REPORT NARRATIVE

All samples were received intact. The cooler temperatures were 3, 2, 1 and 2 degrees Celsius.

Sample W10-F was on the Chain of Custody, cancelled per Dave Wesner.

PCB's - 8082:

There were no technical difficulties encountered during the analysis of this Sample Delivery Group (SDG).

Login #L0004550
May 4, 2000 11:32 am

KEMRON ENVIRONMENTAL SERVICES

Product: 8082 - PCB

Lab Sample ID: L0004550-01
Client Sample ID: W-1
Site/Work ID: OMC WAUKEGAN SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: 02884/
Date Collected: 04/25/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 04/28/00
Analysis Date: 04/28/00 Time: 19:05

Instrument: HP4
Analyst: ECL
Lab File ID: 4GR3585

Method: 8082\3510C
Run ID: R88434
Batch : WG75962

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016	ug/L		ND	0.50	1
11104-28-2	Aroclor-1221	ug/L		ND	0.50	1
11141-16-5	Aroclor-1232	ug/L		ND	0.50	1
53469-21-9	Aroclor-1242	ug/L		ND	0.50	1
12672-29-6	Aroclor-1248	ug/L		ND	0.50	1
11097-69-1	Aroclor-1254	ug/L		ND	0.50	1
11096-82-5	Aroclor-1260	ug/L		ND	0.50	1

SURROGATES- In Percent Recovery:

2,4,5,6-Tetrachloro-m-xylene	60.5	(13 - 154%)
Decachlorobiphenyl	33.0	(25 - 140%)

Product: 8082 - PCB

Lab Sample ID: L0004550-02
Client Sample ID: W-2
Site/Work ID: OMC WAUKEGAN SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/25/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 04/28/00
Analysis Date: 04/28/00 Time: 19:23

Instrument: HP4
Analyst: ECL
Lab File ID: 4GR3586

Method: 8082\3510C
Run ID: R88434
Batch : WG75962

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016	ug/L		ND	0.50	1
11104-28-2	Aroclor-1221	ug/L		ND	0.50	1
11141-16-5	Aroclor-1232	ug/L		ND	0.50	1
53469-21-9	Aroclor-1242	ug/L		ND	0.50	1
12672-29-6	Aroclor-1248	ug/L		ND	0.50	1
11097-69-1	Aroclor-1254	ug/L		ND	0.50	1
11096-82-5	Aroclor-1260	ug/L		ND	0.50	1

RL = Reporting Limit

Login #L0004550
May 4, 2000 11:32 am

KEMRON ENVIRONMENTAL SERVICES

Product: 8082 - PCB

Lab Sample ID: LC004550-02
Client Sample ID: W-2
Site/Work ID: OMC WAUKEGAN SEMI ANNUAL
Matrix: Water

TCLP Extract Date: N/A
Extract Date: 04/28/00
Analysis Date: 04/28/00 Time: 19:23

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/25/00

Instrument: HP4
Analyst: ECL
Lab File ID: 4GR3586

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

Method: 8082\3510C
Run ID: R88434
Batch : WG75962

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
	SURROGATES- In Percent Recovery:					
	2,4,5,6-Tetrachloro-m-xylene.....	60.6		(13 - 154%)		
	Decachlorobiphenyl.....	47.6		(25 - 140%)		

Product: 8082 - PCB

Lab Sample ID: LC004550-03
Client Sample ID: W-3
Site/Work ID: OMC WAUKEGAN SEMI ANNUAL
Matrix: Water

TCLP Extract Date: N/A
Extract Date: 04/28/00
Analysis Date: 04/28/00 Time: 19:42

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/25/00

Instrument: HP4
Analyst: ECL
Lab File ID: 4GR3587

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

Method: 8082\3510C
Run ID: R88434
Batch : WG75962

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016.....	ug/L		ND	0.50	1
11104-28-2	Aroclor-1221.....	ug/L		ND	0.50	1
11141-16-5	Aroclor-1232.....	ug/L		ND	0.50	1
53469-21-9	Aroclor-1242.....	ug/L		ND	0.50	1
12672-29-6	Aroclor-1248.....	ug/L		ND	0.50	1
11097-69-1	Aroclor-1254.....	ug/L		ND	0.50	1
11096-82-5	Aroclor-1260.....	ug/L		ND	0.50	1
	SURROGATES- In Percent Recovery:					
	2,4,5,6-Tetrachloro-m-xylene.....	59.7		(13 - 154%)		
	Decachlorobiphenyl.....	60.4		(25 - 140%)		

RL = Reporting Limit

Login #L0004550
May 4, 2000 11:32 am

KEMRON ENVIRONMENTAL SERVICES

Product: 8082 - PCB

Lab Sample ID: L0004550-04
Client Sample ID: W-4
Site/Work ID: OMC WAUKEGAN SEMI ANNUAL
Matrix: Water

TCLP Extract Date: N/A
Extract Date: 04/28/00
Analysis Date: 04/28/00 Time: 20:00

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/25/00

Instrument: HP4
Analyst: ECL
Lab File ID: 4GR3588

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

Method: 8082\3510C
Run ID: R88434
Batch : WG75962

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016	ug/L		ND	0.55	1.1
11104-28-2	Aroclor-1221	ug/L		ND	0.55	1.1
11141-16-5	Aroclor-1232	ug/L		ND	0.55	1.1
53469-21-9	Aroclor-1242	ug/L		ND	0.55	1.1
12672-29-6	Aroclor-1248	ug/L		ND	0.55	1.1
11097-69-1	Aroclor-1254	ug/L		ND	0.55	1.1
11096-82-5	Aroclor-1260	ug/L		ND	0.55	1.1

SURROGATES- In Percent Recovery:

2,4,5,6-Tetrachloro-m-xylene	58.9	(13 - 154%)
Decachlorobiphenyl	51.4	(25 - 140%)

Product: 8082 - PCB

Lab Sample ID: L0004550-05
Client Sample ID: W-5
Site/Work ID: OMC WAUKEGAN SEMI ANNUAL
Matrix: Water

TCLP Extract Date: N/A
Extract Date: 04/28/00
Analysis Date: 04/28/00 Time: 20:19

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/25/00

Instrument: HP4
Analyst: ECL
Lab File ID: 4GR3589

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

Method: 8082\3510C
Run ID: R88434
Batch : WG75962

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016	ug/L		ND	0.55	1.1
11104-28-2	Aroclor-1221	ug/L		ND	0.55	1.1
11141-16-5	Aroclor-1232	ug/L		ND	0.55	1.1
53469-21-9	Aroclor-1242	ug/L		ND	0.55	1.1
12672-29-6	Aroclor-1248	ug/L		ND	0.55	1.1
11097-69-1	Aroclor-1254	ug/L		ND	0.55	1.1
11096-82-5	Aroclor-1260	ug/L		ND	0.55	1.1

RL = Reporting Limit

Login #L0004550
May 4, 2000 11:32 am

KEMRON ENVIRONMENTAL SERVICES

Product: 8082 - PCB

Lab Sample ID: L0004550-05
Client Sample ID: W-5
Site/Work ID: OMC WAUKEGAN SEMI ANNUAL
Matrix: Water

TCLP Extract Date: N/A
Extract Date: 04/28/00
Analysis Date: 04/28/00 Time: 20:19

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/25/00

Instrument: HP4
Analyst: ECL
Lab File ID: 4GR3589

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

Method: 8082\3510C
Run ID: R88434
Batch : WG75962

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
	SURROGATES- In Percent Recovery:					
	2,4,5,6-Tetrachloro-m-xylene.....	48.0		(13 - 154%)		
	Decachlorobiphenyl.....	44.6		(25 - 140%)		

Product: 8082 - PCB

Lab Sample ID: L0004550-06
Client Sample ID: W-5F
Site/Work ID: OMC WAUKEGAN SEMI ANNUAL
Matrix: Water

TCLP Extract Date: N/A
Extract Date: 04/28/00
Analysis Date: 04/28/00 Time: 20:37

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/25/00

Instrument: HP4
Analyst: ECL
Lab File ID: 4GR3590

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

Method: 8082\3510C
Run ID: R88434
Batch : WG75962

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016.....	ug/L		ND	0.55	1.1
11104-28-2	Aroclor-1221.....	ug/L		ND	0.55	1.1
11141-16-5	Aroclor-1232.....	ug/L		ND	0.55	1.1
53469-21-9	Aroclor-1242.....	ug/L		ND	0.55	1.1
12672-29-6	Aroclor-1248.....	ug/L		ND	0.55	1.1
11097-69-1	Aroclor-1254.....	ug/L		ND	0.55	1.1
11096-82-5	Aroclor-1260.....	ug/L		ND	0.55	1.1
	SURROGATES- In Percent Recovery:					
	2,4,5,6-Tetrachloro-m-xylene.....	47.1		(13 - 154%)		
	Decachlorobiphenyl.....	68.0		(25 - 140%)		

RL = Reporting Limit

Login #L0004550
May 4, 2000 11:32 am

KEMRON ENVIRONMENTAL SERVICES

Product: 8082 - PCB

Lab Sample ID: L0004550-07
Client Sample ID: W-6
Site/Work ID: OMC WAUKEGAN SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/25/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 04/28/00
Analysis Date: 04/28/00 Time: 20:56

Instrument: HP4
Analyst: ECL
Lab File ID: 4GR3591

Method: 8082\3510C
Run ID: R88434
Batch : WG75962

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016	ug/L		ND	0.55	1.1
11104-28-2	Aroclor-1221	ug/L		ND	0.55	1.1
11141-16-5	Aroclor-1232	ug/L		ND	0.55	1.1
53469-21-9	Aroclor-1242	ug/L		ND	0.55	1.1
12672-29-6	Aroclor-1248	ug/L		ND	0.55	1.1
11097-69-1	Aroclor-1254	ug/L		ND	0.55	1.1
11096-82-5	Aroclor-1260	ug/L		ND	0.55	1.1

SURROGATES- In Percent Recovery:

2,4,5,6-Tetrachloro-m-xylene	52.0	(13 - 154%)
Decachlorobiphenyl	41.9	(25 - 140%)

Product: 8082 - PCB

Lab Sample ID: L0004550-08
Client Sample ID: W-7
Site/Work ID: OMC WAUKEGAN SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/25/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 04/28/00
Analysis Date: 04/28/00 Time: 21:14

Instrument: HP4
Analyst: ECL
Lab File ID: 4GR3592

Method: 8082\3510C
Run ID: R88434
Batch : WG75962

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016	ug/L		ND	0.55	1.1
11104-28-2	Aroclor-1221	ug/L		ND	0.55	1.1
11141-16-5	Aroclor-1232	ug/L		ND	0.55	1.1
53469-21-9	Aroclor-1242	ug/L		ND	0.55	1.1
12672-29-6	Aroclor-1248	ug/L		ND	0.55	1.1
11097-69-1	Aroclor-1254	ug/L		ND	0.55	1.1
11096-82-5	Aroclor-1260	ug/L		ND	0.55	1.1

RL = Reporting Limit

Login #L0C04550
May 4, 2000 11:32 am

KEMRON ENVIRONMENTAL SERVICES

Product: 8082 - PCB

Lab Sample ID: L0004550-08
Client Sample ID: W-7
Site/Work ID: OMC WAUKEGAN SEMI ANNUAL
Matrix: Water

TCLP Extract Date: N/A
Extract Date: 04/28/00
Analysis Date: 04/28/00 Time: 21:14

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/25/00

Instrument: HP4
Analyst: ECL
Lab File ID: 4GR3592

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

Method: 8082\3510C
Run ID: R88434
Batch : WG75962

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
	SURROGATES- In Percent Recovery:					
	2,4,5,6-Tetrachloro-m-xylene.....	50.1		(13 - 154%)		
	Decachlorobiphenyl.....	66.5		(25 - 140%)		

Product: 8082 - PCB

Lab Sample ID: L0004550-09
Client Sample ID: W-8
Site/Work ID: OMC WAUKEGAN SEMI ANNUAL
Matrix: Water

CLP Extract Date: N/A
Extract Date: 04/28/00
Analysis Date: 04/28/00 Time: 22:09

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/25/00

Instrument: HP4
Analyst: ECL
Lab File ID: 4GR3595

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

Method: 8082\3510C
Run ID: R88434
Batch : WG75962

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016.....	ug/L		ND	0.55	1.1
11104-28-2	Aroclor-1221.....	ug/L		ND	0.55	1.1
11141-16-5	Aroclor-1232.....	ug/L		ND	0.55	1.1
53469-21-9	Aroclor-1242.....	ug/L		ND	0.55	1.1
12672-29-6	Aroclor-1248.....	ug/L		ND	0.55	1.1
11097-69-1	Aroclor-1254.....	ug/L		ND	0.55	1.1
11096-82-5	Aroclor-1260.....	ug/L		ND	0.55	1.1
	SURROGATES- In Percent Recovery:					
	2,4,5,6-Tetrachloro-m-xylene.....	57.3		(13 - 154%)		
	Decachlorobiphenyl.....	43.5		(25 - 140%)		

RL = Reporting Limit

KEMRON ENVIRONMENTAL SERVICES

Product: 8082 - PCB

Lab Sample ID: L0004550-10
Client Sample ID: W-9
Site/Work ID: OMC WAUKEGAN SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/25/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 04/28/00
Analysis Date: 04/28/00 Time: 22:27

Instrument: HP4
Analyst: ECL
Lab File ID: 4GR3596

Method: 8082\3510C
Run ID: R88434
Batch : WG75962

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016	ug/L		ND	0.55	1.1
11104-28-2	Aroclor-1221	ug/L		ND	0.55	1.1
11141-16-5	Aroclor-1232	ug/L		ND	0.55	1.1
53469-21-9	Aroclor-1242	ug/L		ND	0.55	1.1
12672-29-6	Aroclor-1248	ug/L		ND	0.55	1.1
11097-69-1	Aroclor-1254	ug/L		ND	0.55	1.1
11096-82-5	Aroclor-1260	ug/L		ND	0.55	1.1

SURROGATES- In Percent Recovery:

2,4,5,6-Tetrachloro-m-xylene	61.4	(13 - 154%)
Decachlorobiphenyl	40.4	(25 - 140%)

Product: 8082 - PCB

Lab Sample ID: L0004550-11
Client Sample ID: W-10
Site/Work ID: OMC WAUKEGAN SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/25/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 04/28/00
Analysis Date: 04/28/00 Time: 22:45

Instrument: HP4
Analyst: ECL
Lab File ID: 4GR3597

Method: 8082\3510C
Run ID: R88434
Batch : WG75962

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016	ug/L		ND	0.55	1.1
11104-28-2	Aroclor-1221	ug/L		ND	0.55	1.1
11141-16-5	Aroclor-1232	ug/L		ND	0.55	1.1
53469-21-9	Aroclor-1242	ug/L		ND	0.55	1.1
12672-29-6	Aroclor-1248	ug/L	1.7		0.55	1.1
11097-69-1	Aroclor-1254	ug/L		ND	0.55	1.1
11096-82-5	Aroclor-1260	ug/L		ND	0.55	1.1

RL = Reporting Limit

Login #L0004550
May 4, 2000 11:32 am

KEMRON ENVIRONMENTAL SERVICES

Product: 8082 - PCB

Lab Sample ID: L0004550-11
Client Sample ID: W-10
Site/Work ID: OMC WAUKEGAN SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/25/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 04/28/00
Analysis Date: 04/28/00 Time: 22:45

Instrument: HP4
Analyst: ECL
Lab File ID: 4GR3597

Method: 8082\3510C
Run ID: R88434
Batch : WG75962

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
	SURROGATES- In Percent Recovery:					
	2,4,5,6-Tetrachloro-m-xylene.....	74.7		(13 - 154%)		
	Decachlorobiphenyl.....	50.3		(25 - 140%)		

Product: 8082 - PCB

Lab Sample ID: L0004550-12
Client Sample ID: W-10D
Site/Work ID: OMC WAUKEGAN SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/25/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 04/28/00
Analysis Date: 04/28/00 Time: 23:03

Instrument: HP4
Analyst: ECL
Lab File ID: 4GR3598

Method: 8082\3510C
Run ID: R88434
Batch : WG75962

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016.....	ug/L		ND	0.55	1.1
11104-28-2	Aroclor-1221.....	ug/L		ND	0.55	1.1
11141-16-5	Aroclor-1232.....	ug/L		ND	0.55	1.1
53469-21-9	Aroclor-1242.....	ug/L		ND	0.55	1.1
12672-29-6	Aroclor-1248.....	ug/L	1.9		0.55	1.1
11097-69-1	Aroclor-1254.....	ug/L		ND	0.55	1.1
11096-82-5	Aroclor-1260.....	ug/L		ND	0.55	1.1
	SURROGATES- In Percent Recovery:					
	2,4,5,6-Tetrachloro-m-xylene.....	80.0		(13 - 154%)		
	Decachlorobiphenyl.....	52.3		(25 - 140%)		

RL = Reporting Limit

KEMRON ENVIRONMENTAL SERVICES

Product: 8082 - PCB

Lab Sample ID: L0004550-13
Client Sample ID: W-10/MS
Site/Work ID: OMC WAUKEGAN SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/25/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 04/28/00
Analysis Date: 04/28/00 Time: 23:22

Instrument: HP4
Analyst: ECL
Lab File ID: 4GR3599

Method: 8082\3510C
Run ID: R88434
Batch : WG75962

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016	% Recovery		NS	0.50	1.1
11104-28-2	Aroclor-1221	% Recovery		NS	0.50	1.1
11141-16-5	Aroclor-1232	% Recovery		NS	0.50	1.1
53469-21-9	Aroclor-1242	% Recovery		NS	0.50	1.1
12672-29-6	Aroclor-1248	% Recovery	113		0.50	1.1
11097-69-1	Aroclor-1254	% Recovery		NS	0.50	1.1
11096-82-5	Aroclor-1260	% Recovery		NS	0.50	1.1

SURROGATES- In Percent Recovery:

2,4,5,6-Tetrachloro-m-xylene	84.1	(13 - 154%)
Decachlorobiphenyl	68.6	(25 - 140%)

Product: 8082 - PCB

Lab Sample ID: L0004550-14
Client Sample ID: W-10/MSD
Site/Work ID: OMC WAUKEGAN SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/25/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 04/28/00
Analysis Date: 04/28/00 Time: 23:41

Instrument: HP4
Analyst: ECL
Lab File ID: 4GR3600

Method: 8082\3510C
Run ID: R88434
Batch : WG75962

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016	% Recovery		NS	0.50	1.1
11104-28-2	Aroclor-1221	% Recovery		NS	0.50	1.1
11141-16-5	Aroclor-1232	% Recovery		NS	0.50	1.1
53469-21-9	Aroclor-1242	% Recovery		NS	0.50	1.1
12672-29-6	Aroclor-1248	% Recovery	113		0.50	1.1
11097-69-1	Aroclor-1254	% Recovery		NS	0.50	1.1
11096-82-5	Aroclor-1260	% Recovery		NS	0.50	1.1

RL = Reporting Limit

Login #L0004550
May 4, 2000 11:32 am

KEMRON ENVIRONMENTAL SERVICES

Product: 8082 - PCB

Lab Sample ID: L0004550-14
Client Sample ID: W-10/MSD
Site/Work ID: OMC WAUKEGAN SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/25/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 04/28/00
Analysis Date: 04/28/00 Time: 23:41

Instrument: HP4
Analyst: ECL
Lab File ID: 4GR3600

Method: 8082\3510C
Run ID: R88434
Batch : WG75962

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
	SURROGATES- In Percent Recovery:					
	2,4,5,6-Tetrachloro-m-xylene.....		77.9	(13 - 154%)		
	Decachlorobiphenyl.....		53.4	(25 - 140%)		

Product: 8082 - PCB

Lab Sample ID: L0004550-16
Client Sample ID: W-11
Site/Work ID: OMC WAUKEGAN SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/25/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 04/28/00
Analysis Date: 04/28/00 Time: 23:59

Instrument: HP4
Analyst: ECL
Lab File ID: 4GR3601

Method: 8082\3510C
Run ID: R88434
Batch : WG75962

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016.....	ug/L		ND	0.55	1.1
11104-28-2	Aroclor-1221.....	ug/L		ND	0.55	1.1
11141-16-5	Aroclor-1232.....	ug/L		ND	0.55	1.1
53469-21-9	Aroclor-1242.....	ug/L		ND	0.55	1.1
12672-29-6	Aroclor-1248.....	ug/L		ND	0.55	1.1
11097-69-1	Aroclor-1254.....	ug/L		ND	0.55	1.1
11096-82-5	Aroclor-1260.....	ug/L		ND	0.55	1.1
	SURROGATES- In Percent Recovery:					
	2,4,5,6-Tetrachloro-m-xylene.....		74.0	(13 - 154%)		
	Decachlorobiphenyl.....		58.5	(25 - 140%)		

RL = Reporting Limit

KEMRON ENVIRONMENTAL SERVICES

Product: 8082 - PCB

Lab Sample ID: L0004550-17
Client Sample ID: W-12
Site/Work ID: OMC WAUKEGAN SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/25/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 04/28/00
Analysis Date: 04/29/00 Time: 00:18

Instrument: HP4
Analyst: ECL
Lab File ID: 4GR3602

Method: 8082\3510C
Run ID: R88437
Batch : WG75962

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016	ug/L		ND	0.55	1.1
11104-28-2	Aroclor-1221	ug/L		ND	0.55	1.1
11141-16-5	Aroclor-1232	ug/L		ND	0.55	1.1
53469-21-9	Aroclor-1242	ug/L		ND	0.55	1.1
12672-29-6	Aroclor-1248	ug/L		ND	0.55	1.1
11097-69-1	Aroclor-1254	ug/L		ND	0.55	1.1
11096-82-5	Aroclor-1260	ug/L		ND	0.55	1.1

SURROGATES- In Percent Recovery:

2,4,5,6-Tetrachloro-m-xylene	95.4	(13 - 154%)
Decachlorobiphenyl	103	(25 - 140%)

Product: 8082 - PCB

Lab Sample ID: L0004550-18
Client Sample ID: W-12D
Site/Work ID: OMC WAUKEGAN SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/25/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 04/28/00
Analysis Date: 04/29/00 Time: 00:36

Instrument: HP4
Analyst: ECL
Lab File ID: 4GR3603

Method: 8082\3510C
Run ID: R88437
Batch : WG75962

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016	ug/L		ND	0.55	1.1
11104-28-2	Aroclor-1221	ug/L		ND	0.55	1.1
11141-16-5	Aroclor-1232	ug/L		ND	0.55	1.1
53469-21-9	Aroclor-1242	ug/L		ND	0.55	1.1
12672-29-6	Aroclor-1248	ug/L		ND	0.55	1.1
11097-69-1	Aroclor-1254	ug/L		ND	0.55	1.1
11096-82-5	Aroclor-1260	ug/L		ND	0.55	1.1

RL = Reporting Limit

Login #L0004550
May 4, 2000 11:32 am

KEMRON ENVIRONMENTAL SERVICES

Product: 8082 - PCB

Lab Sample ID: L0004550-18
Client Sample ID: W-12D
Site/Work ID: OMC WAUKEGAN SEMI ANNUAL
Matrix: Water

TCLP Extract Date: N/A
Extract Date: 04/28/00
Analysis Date: 04/29/00 Time: 00:36

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/25/00

Instrument: HP4
Analyst: ECL
Lab File ID: 4GR3603

Sample Weight: N/A
Extract Volume: N/A

% Solid: N/A

Method: 8082\3510C
Run ID: R88437
Batch : WG75962

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
	SURROGATES- In Percent Recovery:					
	2,4,5,6-Tetrachloro-m-xylene.....	76.6		(13 - 154%)		
	Decachlorobiphenyl.....	75.6		(25 - 140%)		

RL = Reporting Limit

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Order #: 00-04-550
May 4, 2000 11:32 am

KEMRON ENVIRONMENTAL SERVICES
WORK GROUPS

Work Group	Run ID	Sample	Dil Type	Matrix	Product	Method	Date Collected	Department
WG75921	R88434	L0004550-01		Water	PCB	8082\3510C	25-APR-2000	Extraction
WG75921	R88434	L0004550-02		Water	PCB	8082\3510C	25-APR-2000	Extraction
WG75921	R88434	L0004550-03		Water	PCB	8082\3510C	25-APR-2000	Extraction
WG75921	R88434	L0004550-04		Water	PCB	8082\3510C	25-APR-2000	Extraction
WG75921	R88434	L0004550-05		Water	PCB	8082\3510C	25-APR-2000	Extraction
WG75921	R88434	L0004550-06		Water	PCB	8082\3510C	25-APR-2000	Extraction
WG75921	R88434	L0004550-07		Water	PCB	8082\3510C	25-APR-2000	Extraction
WG75921	R88434	L0004550-08		Water	PCB	8082\3510C	25-APR-2000	Extraction
WG75921	R88434	L0004550-09		Water	PCB	8082\3510C	25-APR-2000	Extraction
WG75921	R88434	L0004550-10		Water	PCB	8082\3510C	25-APR-2000	Extraction
WG75921	R88434	L0004550-11		Water	PCB	8082\3510C	25-APR-2000	Extraction
WG75921	R88434	L0004550-12		Water	PCB	8082\3510C	25-APR-2000	Extraction
WG75921	R88434	L0004550-13		Water	PCB	8082\3510C	25-APR-2000	Extraction
WG75921	R88434	L0004550-14		Water	PCB	8082\3510C	25-APR-2000	Extraction
WG75921	R88434	L0004550-16		Water	PCB	8082\3510C	25-APR-2000	Extraction
WG75921	R88437	L0004550-17		Water	PCB	8082\3510C	25-APR-2000	Extraction
WG75921	R88437	L0004550-18		Water	PCB	8082\3510C	25-APR-2000	Extraction
WG75962	R88434	L0004550-01		Water	PCB	8082\3510C	25-APR-2000	Semivolatile - GC
WG75962	R88434	L0004550-02		Water	PCB	8082\3510C	25-APR-2000	Semivolatile - GC
WG75962	R88434	L0004550-03		Water	PCB	8082\3510C	25-APR-2000	Semivolatile - GC
WG75962	R88434	L0004550-04		Water	PCB	8082\3510C	25-APR-2000	Semivolatile - GC
WG75962	R88434	L0004550-05		Water	PCB	8082\3510C	25-APR-2000	Semivolatile - GC
WG75962	R88434	L0004550-06		Water	PCB	8082\3510C	25-APR-2000	Semivolatile - GC
WG75962	R88434	L0004550-07		Water	PCB	8082\3510C	25-APR-2000	Semivolatile - GC
WG75962	R88434	L0004550-08		Water	PCB	8082\3510C	25-APR-2000	Semivolatile - GC
WG75962	R88434	L0004550-09		Water	PCB	8082\3510C	25-APR-2000	Semivolatile - GC
WG75962	R88434	L0004550-10		Water	PCB	8082\3510C	25-APR-2000	Semivolatile - GC
WG75962	R88434	L0004550-11		Water	PCB	8082\3510C	25-APR-2000	Semivolatile - GC
WG75962	R88434	L0004550-12		Water	PCB	8082\3510C	25-APR-2000	Semivolatile - GC
WG75962	R88434	L0004550-13		Water	PCB	8082\3510C	25-APR-2000	Semivolatile - GC
WG75962	R88434	L0004550-14		Water	PCB	8082\3510C	25-APR-2000	Semivolatile - GC
WG75962	R88434	L0004550-16		Water	PCB	8082\3510C	25-APR-2000	Semivolatile - GC
WG75962	R88437	L0004550-17		Water	PCB	8082\3510C	25-APR-2000	Semivolatile - GC
WG75962	R88437	L0004550-18		Water	PCB	8082\3510C	25-APR-2000	Semivolatile - GC

1.2 Attachments

KEMRON ANALYST LIST

Ohio Valley Laboratory

04/24/00

ABW - Angela B. Wigal
ALT - Ann L. Thayer
ARS - Angelina (Nina) R. Scott
BKL - Brian K. LeMasters
BRG - Brenda R. Gregory
CAG - Cheryl A. Graham
CAK - Cheryl A. Koelsch
CBN - Charles B. Noll
CEA - Carla E. Allen
CEB - Chad E. Barnes
CLC - Chrys L. Crawford
CLK - Carl L. King
CLW - Charissa L. Winters
CMS - Crystal M. Stevens
CPA - Cliff P. Asher
CRC - Carla R. Cochran
CSH - Chris S. Hill
CWS - Clark W. Stanley
DAM - Dan A. Musgrave
DAS - Dallas A. Sullivan
DAT - Debbie A. Tornes
DEL - Don E. Lightfritz
DEV - David E. Vandenberg
DGB - Douglas G. Butcher
DIB - Dalia I. Brown
DIH - Deanna I. Hesson
DLA - Denise L. Adams
DLB - David L. Bumgarner
DLN - Deanna L. Norton
DLP - Dorothy L. Payne
DLR - Dianna L. Rauch
DMD - David M. Dye
DST - Dennis S. Tepe
EAW - Elizabeth (Beth) A. Weber
ECL - Eric C. Lawson
EIE - Elizabeth (Betsy) I. Eagle
GSG - Galen S. George
GWH - George W. Hutchinson
HV - Hema Vilasagar
JCR - Jennifer C. Randall
JDN - Jamie D. Newell
JKM - June K. Morris
JKW - Jane K. Warden
JLH - Janice L. Holland
JMT - Joy M. Thomas
JMW - John M. Wass
JRM - Jay R. McDougal
JWR - John W. Richards
JWS - Jack W. Sheaves
JYH - Ji Y. Hu
KDS - Kristi D. Stone
KHR - Kim H. Rhodes
KRA - Kathy R. Albertson
KSL - Kelly S. Lauer
LKM - Laura K Morris
LKN - Linda K. Nedeff
LLB - Lori L. Bradley
LSA - Lucinda (Cindy) S. Arnold
LSB - Leslie S. Bucina
MDA - Mike D. Albertson
MDC - Michael D. Cochran
MDG - Melissa D. Grimes
MEF - Mike E. Flanagan
MES - Mary E. Schilling
MFB - Mike F. Barrow
MLS - Michael L. Schimmel
MMB- Maren M. Beery
MSW - Matt S. Wilson
NJB - Natalie J. Booth
PML - Paula M. Leidy
RDC - Rebecca D. Cutlip
REF - Ron E. Fertile
REK - Robert E. Keyer
RJW - Rhonda J. Wittekind
RLW - Ron L. Watson
RSH - Renee S. Hennes
RSS - Regina S. Simmons
RWC - Rod W. Campbell
SJK - Sindy J. Kinney
SLP - Sheri L. Pfalzgraf
SLT - Stephanie L. Tepe
SMW - Shauna M. Welch
SPL - Steve P. Learn
SPS - Steve P. Swatzel
TJH - Tim J. Hoeflich
TLD - Teresa L. Davis
TMM- Tammy M. Morris
TRS - Todd R. Stack
VC - Vicki Collier

KEMRON Environmental Services, Inc.
LIST OF VALID QUALIFIERS (qual)
December 10, 1998

Qualifier	Description
A	See the report narrative
NA	Not applicable
+	Correlation coefficient for the MSA is less than 0.995
<	Less than
>	Greater than
B	Present in the method blank
C	Confirmed by GC/MS
*	Surrogate or spike compound out of range
CG	Confluent growth
D	The analyte was quantified at a secondary dilution factor
DL	Surrogate or spike was diluted out
E	Estimated concentration due to sample matrix interference
F	Present below nominal reporting limit (AFCEE only)
FL	Free liquid
I	Semiquantitative result, out of instrument calibration range
J	Present below nominal reporting limit
L	Sample reporting limits elevated due to matrix interference
M	Duplicate injection precision not met

Qualifier	Description
N	Tentatively Identified Compound (TIC)
ND	Not detected at or above the reporting limit (RL)
NF	Not found
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentration > 25% difference between the two GC columns
QNS	Quantity not sufficient to perform analysis
R	Analyte exceeds regulatory limit
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TNTC	Too numerous to count
U	Analyzed for but not detected
W	Post-digestion spike for furnace AA out of control limits
Z	Can not be resolved from isomer. See below.

Special Notes for Organic Analytes

1. Acrolein and acrylonitrile by method 624 are semiquantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methyphenol and 4-Methyphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent.

OMC

OUTBOARD MARINE CORPORATION

CHAIN OF CUSTODY

OMC FACILITY: OMC WAUKEGAN

PHONE NO.: 847-689-5363

ADDRESS:

SAMPLE COLLECTED BY: (Please Print) DAVID R. WESNER

(SIGNATURE)

FIELD SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	NO. OF CONTAINERS	METHOD 8082 (PCB)								COMMENTS
W-1	4-25-00			2	X								GRAB
W-2	4-25-00			2	X								
W-3	4-25-00			2	X								
W-4	4-25-00			2	X								

RECEIVED MAY 11 2000 A.M. MONTEMURRO

TRANSFER NUMBER	RELINQUISHED BY (Signature)	ACCEPTED BY (Signature)	DATE	TIME
1				
2		Julia Brown	4/27/00	09:30
3		C of C Sealed Cooler temp 3,2,1,2 SXS intact		

DISTRIBUTION:

WHITE- ACCOMPANIES SHIPMENT (LAB COPY)

CANARY- ACCOMPANIES SHIPMENT (COURIER COPY)

PINK- OMC FILE

No. 02884

21

OMC

OUTBOARD MARINE CORPORATION

CHAIN OF CUSTODY

OMC FACILITY: OMC WAUKEGAN

PHONE NO.: 847-689-5363

ADDRESS:

SAMPLE COLLECTED BY: (Please Print) DAVID R. WESNER

(SIGNATURE)

FIELD SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	NO. OF CONTAINERS	METHOD 8022 (PCB)								COMMENTS
W-5	4-25-00			2	X								GRAB
W-6	4-25-00			2	X								
W-7	4-25-00			2	X								
W-8	4-25-00			2	X								
W-5F	4-25-00			2	X								

RECEIVED MAY 11 2000 A.M. MONTEMURRO

TRANSFER NUMBER	RELINQUISHED BY (Signature)	ACCEPTED BY (Signature)	DATE	TIME
1				
2		Dalia Brown	4/27	9:30
3		COC Sealed Cooler Temp 32,12, SXS intact DOB		

DISTRIBUTION:

WHITE - ACCOMPANIES SHIPMENT (LAB COPY)

CANARY - ACCOMPANIES SHIPMENT (COURIER COPY)

PINK - OMC FILE

No. 02885

OMC

OUTBOARD MARINE CORPORATION

CHAIN OF CUSTODY

OMC FACILITY: OMC - WAUKEGAN

PHONE NO.: 847-689-5363

ADDRESS:

SAMPLE COLLECTED BY: (Please Print) DAVID R. WESNER

(SIGNATURE) [signature]

FIELD SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	NO. OF CONTAINERS	METHOD 8082 (PCB)									COMMENTS
W-9	4-25-00			2	X									
W-10 B	4-25-00			2	X									
W-10 D	4-25-00			2	X									
W-10 MS	4-25-00			2	X									
W-10 MSD	4-25-00			2	X									
~~W-10F~~	~~4-25-00~~			~~2~~	~~X~~									as cancel
W-11	4-25-00			2	X									
W-12	4-25-00			2	X									
W-12D	4-25-00			2	X									

RECEIVED
MAY 11 2000
A.M. MONTEMURRO

TRANSFER NUMBER	RELINQUISHED BY (Signature)	ACCEPTED BY (Signature)	DATE	TIME
1	[signature]			
2		Julia L. Brown	4/27	9:30
3		C&C Sealed Cooler Temp 3,2,1,2 SXS intact [signature]		

DISTRIBUTION:

WHITE - ACCOMPANIES SHIPMENT (LAB COPY)

CANARY - ACCOMPANIES SHIPMENT (COURIER COPY)

PINK - OMC FILE

No. 02882

2.0 Full Sample Data Package

2.2 Semivolatiles Data

2.2.3 PCB GC Data (8082)

PCB-GC DATA (8082)

Login Number: ~~04-462~~ 04-550

A. **QC Summary**

✓ Batch QC Summary Form

B. **Sample Data**

✓ Target Compound List results and surrogate recoveries - See section 1.0 (c) (laboratory report)

✓ Chromatogram and external standard report for each sample analysis and re-analysis (if re-analyzed).

C. **Standards Data**

✓ Initial calibration summary form (Average Response Factor Calibration Data)

✓ Chromatograms and external standard reports for standards

✓ Calibration verification standards (Continuing Calibration Data) initial and ending checks, chromatograms and external standard reports (chronological)

NA Retention time window summary (if applicable)

D. **Raw QC Data**

✓ Method Blank, chromatogram and external standard report for each matrix type

✓ Laboratory Control Sample, chromatogram and external standard report for each matrix type

✓ Matrix Spike/Matrix Spike Duplicate, chromatograms and external standard reports (if not reported as samples)

✓ Instrument runlogs

✓ Extraction bench sheets

Checked By: EC2 Date: 5/3/00

2.2.3.1 QC Summary

KEMRON ENVIRONMENTAL SERVICES
MARIETTA, OH
QUALITY CONTROL SUMMARY / PCB WATERS , REAR

INSTRUMENT : HP4
EXT'N DATE : 4/28/00
ANALYST : ECL
BLK FLNM : 4GR3583
SMPL ID : L0004550-11
EXT'N BENCH SHT : V137 P49
RUN DATE : 4/28/00
LCS FLNM : 4GR3584
SMPL FLNM : 4GR3597
EXT'N WORK GRP : WG75921
ANAL WORK GRP : WG75962
MS FLNM : 4GR3599
MSD FLNM : 4GR3600

COMPOUND	RDL	CONCENTRATION , ug/L					% RECOVERY									PERCENT						
		Blank	LCS	Sample	MS	MSD	Blank	LCS	LCS LCL	LCS UCL	Sample	MS	MSD	MS LCL	MS UCL	RPD	RPD Advisory Limits	Blank	LCS	Sample	MS	MSD
AROCLOR 1016	0.5	ND	NA	ND	NA	NA	NA	NA	39	113	NA	NA	NA	39	113	NA	0-46					
AROCLOR 1221	0.5	ND	NA	ND	NA	NA	NA	NA	15	175	NA	NA	NA	15	175	NA	0-38					
AROCLOR 1232	0.5	ND	NA	ND	NA	NA	NA	NA	15	210	NA	NA	NA	15	210	NA	0-35					
AROCLOR 1242	0.5	ND	NA	ND	NA	NA	NA	NA	35	154	NA	NA	NA	35	154	NA	0-35					
AROCLOR 1248	0.5	ND	2.40	1.65	4.77	4.76	NA	96.0	34	116	NA	113	113	34	116	0.3	0-31					
AROCLOR 1254	0.5	ND	NA	ND	NA	NA	NA	NA	25	135	NA	NA	NA	25	135	NA	0-36					
AROCLOR 1260	0.5	ND	NA	ND	NA	NA	NA	NA	44	129	NA	NA	NA	44	129	NA	0-41					
SURROGATES																						
2,4,5,6-TETRACHLORO-M-XYLENE		12.2	12.4	14.9	16.8	15.6	60.8	61.8	13	154	74.7	84.1	77.9	13	154							
DECACHLOROBIPHENYL		20.5	15.1	10.1	13.7	10.7	103	75.5	25	140	50.3	68.6	53.4	25	140							

NOTES & DEFINITIONS :

LCS, MS & MSD spiked at 2.5 ug/L
SURROGATES spiked at 20 ug/L
NA = NOT APPLICABLE
DL = DILUTED OUT
ND = NOT DETECTED
RDL=REPORTING DETECTION LIMIT

LCS=LABORATORY CONTROL SAMPLE
MS=MATRIX SPIKE
MSD=MATRIX SPIKE DUPLICATE

2.2.3.2 Sample Data

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3585.D Vial: 77
Acq On : 28 Apr 2000 19:05 Operator: ECL
Sample : L0004550-01 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:23 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

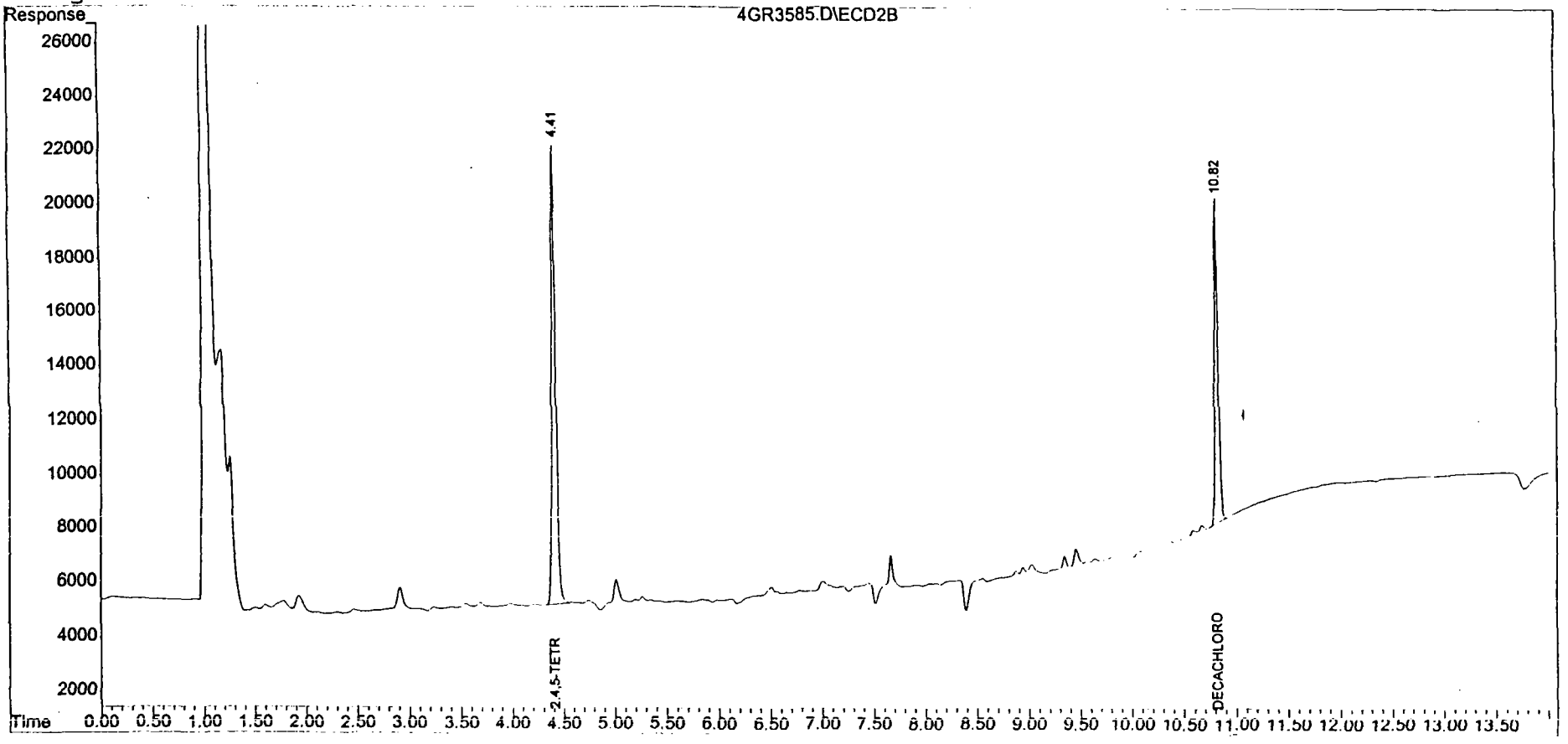
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.41	486602	12.099 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	60.49%
12) S DECACHLOROBIPHENYL	10.82	278350	6.603 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	33.02%
Target Compounds			
2) L1 PCB 1016-1	0.00	0	N.D. UG/L
3) L1 PCB 1016-2	0.00	0	N.D. UG/L
4) L1 PCB 1016-3	0.00	0	N.D. UG/L
5) L1 PCB 1016-4	0.00	0	N.D. UG/L
6) L1 PCB 1016-5	0.00	0	N.D. UG/L
Sum PCB 1016-1		0	N.D. UG/L
Average PCB 1016-1			0.000 UG/L
7) L2 PCB 1260-1	0.00	0	N.D. UG/L
8) L2 PCB 1260-2	0.00	0	N.D. UG/L
9) L2 PCB 1260-3	0.00	0	N.D. UG/L
10) L2 PCB 1260-4	0.00	0	N.D. UG/L
11) L2 PCB 1260-5	0.00	0	N.D. UG/L
Sum PCB 1260-1		0	N.D. UG/L
Average PCB 1260-1			0.000 UG/L

f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3585.D Vial: 77
Acq On : 28 Apr 2000 19:05 Operator: ECL
Sample : L0004550-01 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:23 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3586.D Vial: 78
Acq On : 28 Apr 2000 19:23 Operator: ECL
Sample : L0004550-02 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:23 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.41	487159	12.112 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	60.56%
12) S DECACHLOROBIPHENYL	10.82	400863	9.509 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	47.55%
Target Compounds			
2) L1 PCB 1016-1	0.00	0	N.D. UG/L
3) L1 PCB 1016-2	0.00	0	N.D. UG/L
4) L1 PCB 1016-3	0.00	0	N.D. UG/L
5) L1 PCB 1016-4	0.00	0	N.D. UG/L
6) L1 PCB 1016-5	0.00	0	N.D. UG/L
Sum PCB 1016-1		0	N.D. UG/L
Average PCB 1016-1			0.000 UG/L
7) L2 PCB 1260-1	0.00	0	N.D. UG/L
8) L2 PCB 1260-2	0.00	0	N.D. UG/L
9) L2 PCB 1260-3	0.00	0	N.D. UG/L
10) L2 PCB 1260-4	0.00	0	N.D. UG/L
11) L2 PCB 1260-5	0.00	0	N.D. UG/L
Sum PCB 1260-1		0	N.D. UG/L
Average PCB 1260-1			0.000 UG/L

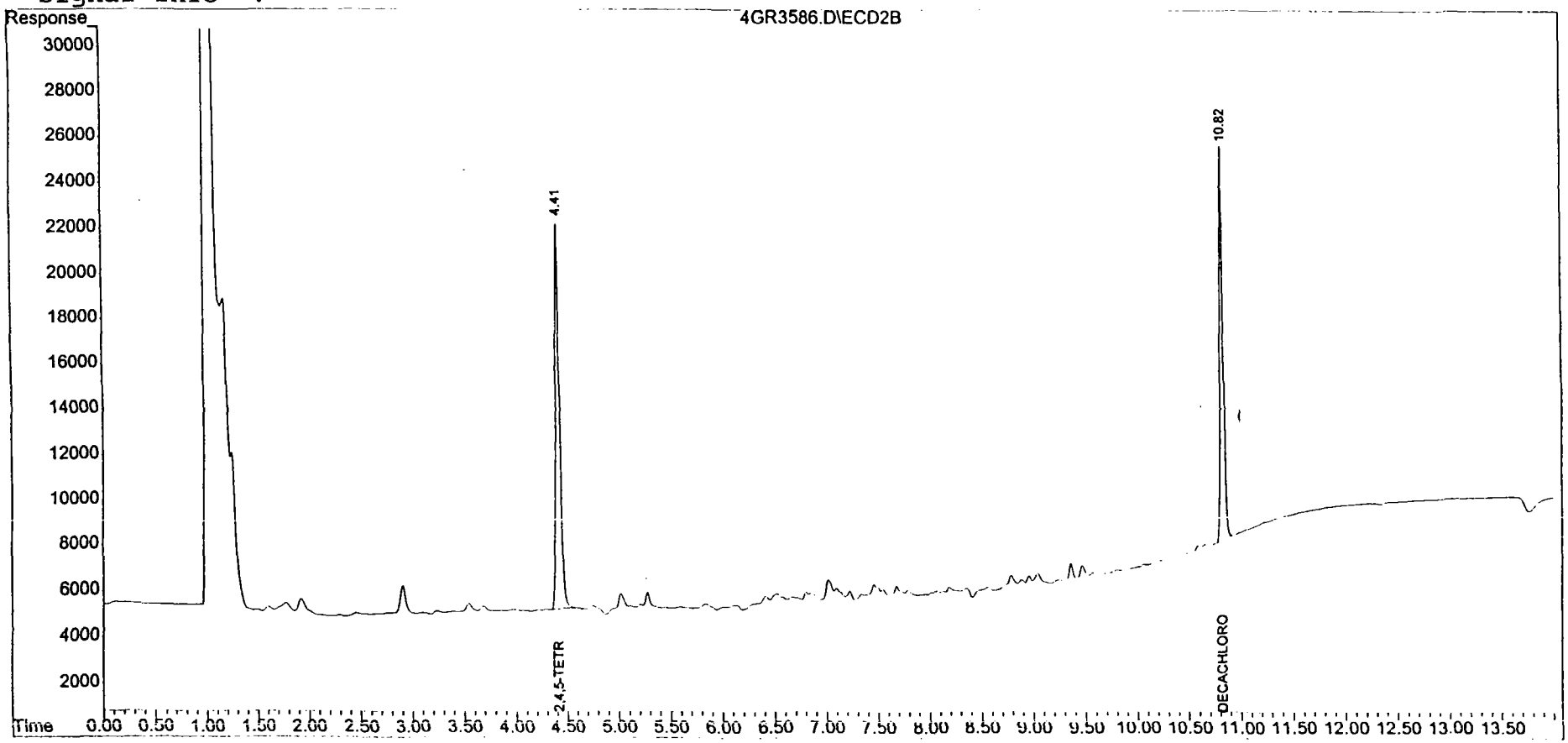
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3586.D Vial: 78
Acq On : 28 Apr 2000 19:23 Operator: ECL
Sample : L0004550-02 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:23 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3587.D Vial: 79
Acq On : 28 Apr 2000 19:42 Operator: ECL
Sample : L0004550-03 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:23 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

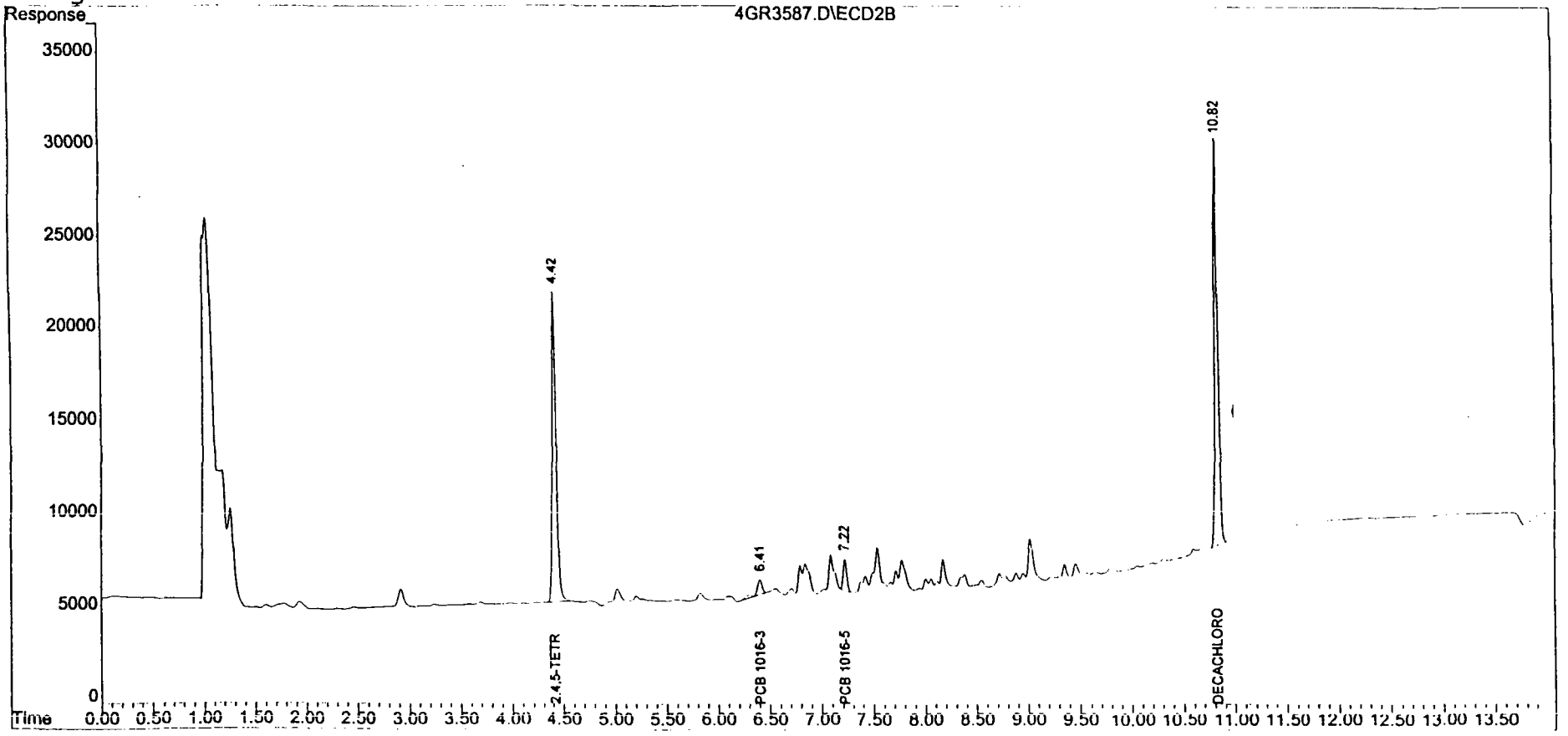
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.42	479944	11.933 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	59.66%
2) S DECACHLOROBIPHENYL	10.82	509008	12.075 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	60.38%
Target Compounds			
2) L1 PCB 1016-1	0.00	0	N.D. UG/L
3) L1 PCB 1016-2	0.00	0	N.D. UG/L
4) L1 PCB 1016-3	6.41	30662	0.094 UG/L
5) L1 PCB 1016-4	0.00	0	N.D. UG/L
6) L1 PCB 1016-5	7.22	39790	0.443 UG/L
Sum PCB 1016-1		70452	0.537 UG/L
Average PCB 1016-1			0.268 UG/L
7) L2 PCB 1260-1	0.00	0	N.D. UG/L
8) L2 PCB 1260-2	0.00	0	N.D. UG/L
9) L2 PCB 1260-3	0.00	0	N.D. UG/L
10) L2 PCB 1260-4	0.00	0	N.D. UG/L
11) L2 PCB 1260-5	0.00	0	N.D. UG/L
Sum PCB 1260-1		0	N.D. UG/L
Average PCB 1260-1			0.000 UG/L

f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3587.D Vial: 79
Acq On : 28 Apr 2000 19:42 Operator: ECL
Sample : L0004550-03 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:23 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3587.D Vial: 79
Acq On : 28 Apr 2000 19:42 Operator: ECL
Sample : L0004550-03 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:43 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:20:46 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.42	480322	11.952 UG/L
Spiked Amount 20.000		Recovery =	59.76%
7) S DECACHLOROBIPHENYL	10.82	509203	12.045 UG/L
Spiked Amount 20.000		Recovery =	60.22%
Target Compounds			
2) L1 PCB 1248-1	0.00	0	N.D. UG/L
3) L1 PCB 1248-2	6.41	24230	0.112 UG/L
4) L1 PCB 1248-3	7.09	60377	0.409 UG/L
5) L1 PCB 1248-4	7.77	34445	0.247 UG/L
6) L1 PCB 1248-5	8.17	33937	0.780 UG/L
Sum PCB 1248-1		152989	1.549 UG/L
Average PCB 1248-1			~~0.387 UG/L~~

BRL

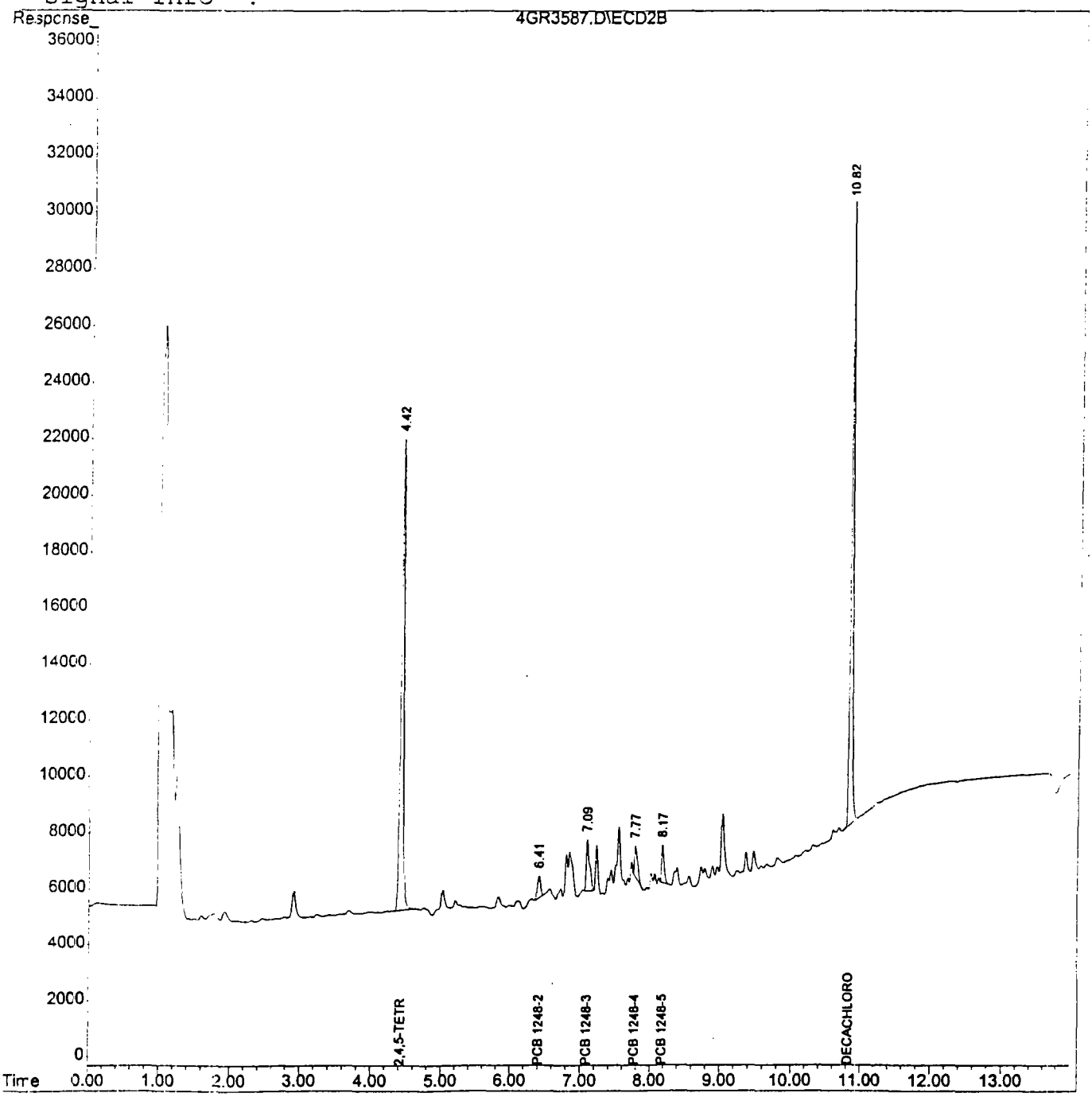
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3587.D Vial: 79
Acq On : 28 Apr 2000 19:42 Operator: ECL
Sample : L0004550-03 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:43 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:20:46 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3588.D Vial: 80
Acq On : 28 Apr 2000 20:00 Operator: ECL
Sample : L0004550-04 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:24 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

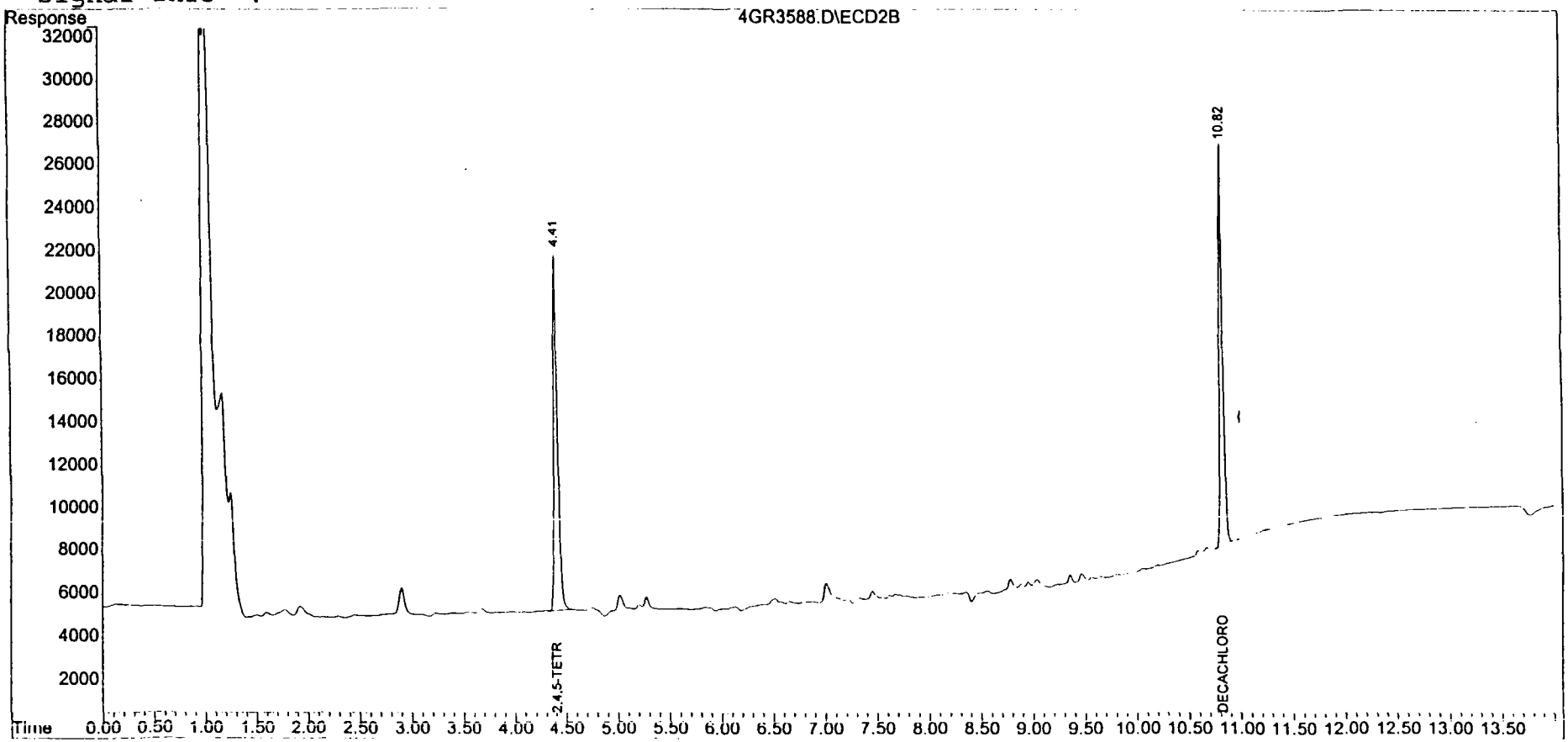
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.41	473841	11.781 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	58.91%
12) S DECACHLOROBIPHENYL	10.82	433509	10.284 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	51.42%
Target Compounds			
2) L1 PCB 1016-1	0.00	0	N.D. UG/L
3) L1 PCB 1016-2	0.00	0	N.D. UG/L
4) L1 PCB 1016-3	0.00	0	N.D. UG/L
5) L1 PCB 1016-4	0.00	0	N.D. UG/L
6) L1 PCB 1016-5	0.00	0	N.D. UG/L
Sum PCB 1016-1		0	N.D. UG/L
Average PCB 1016-1			0.000 UG/L
7) L2 PCB 1260-1	0.00	0	N.D. UG/L
8) L2 PCB 1260-2	0.00	0	N.D. UG/L
9) L2 PCB 1260-3	0.00	0	N.D. UG/L
10) L2 PCB 1260-4	0.00	0	N.D. UG/L
11) L2 PCB 1260-5	0.00	0	N.D. UG/L
Sum PCB 1260-1		0	N.D. UG/L
Average PCB 1260-1			0.000 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3588.D Vial: 80
Acq On : 28 Apr 2000 20:00 Operator: ECL
Sample : L0004550-04 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:24 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



40

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3589.D Vial: 81
Acq On : 28 Apr 2000 20:19 Operator: ECL
Sample : L0004550-05 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:24 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.41	385689	9.590 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	47.95%
12) S DECACHLOROBIPHENYL	10.82	375653	8.911 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	44.56%
Target Compounds			
2) L1 PCB 1016-1	0.00	0	N.D. UG/L
3) L1 PCB 1016-2	0.00	0	N.D. UG/L
4) L1 PCB 1016-3	0.00	0	N.D. UG/L
5) L1 PCB 1016-4	0.00	0	N.D. UG/L
6) L1 PCB 1016-5	0.00	0	N.D. UG/L
Sum PCB 1016-1		0	N.D. UG/L
Average PCB 1016-1			0.000 UG/L
7) L2 PCB 1260-1	0.00	0	N.D. UG/L
8) L2 PCB 1260-2	0.00	0	N.D. UG/L
9) L2 PCB 1260-3	0.00	0	N.D. UG/L
10) L2 PCB 1260-4	0.00	0	N.D. UG/L
11) L2 PCB 1260-5	0.00	0	N.D. UG/L
Sum PCB 1260-1		0	N.D. UG/L
Average PCB 1260-1			0.000 UG/L

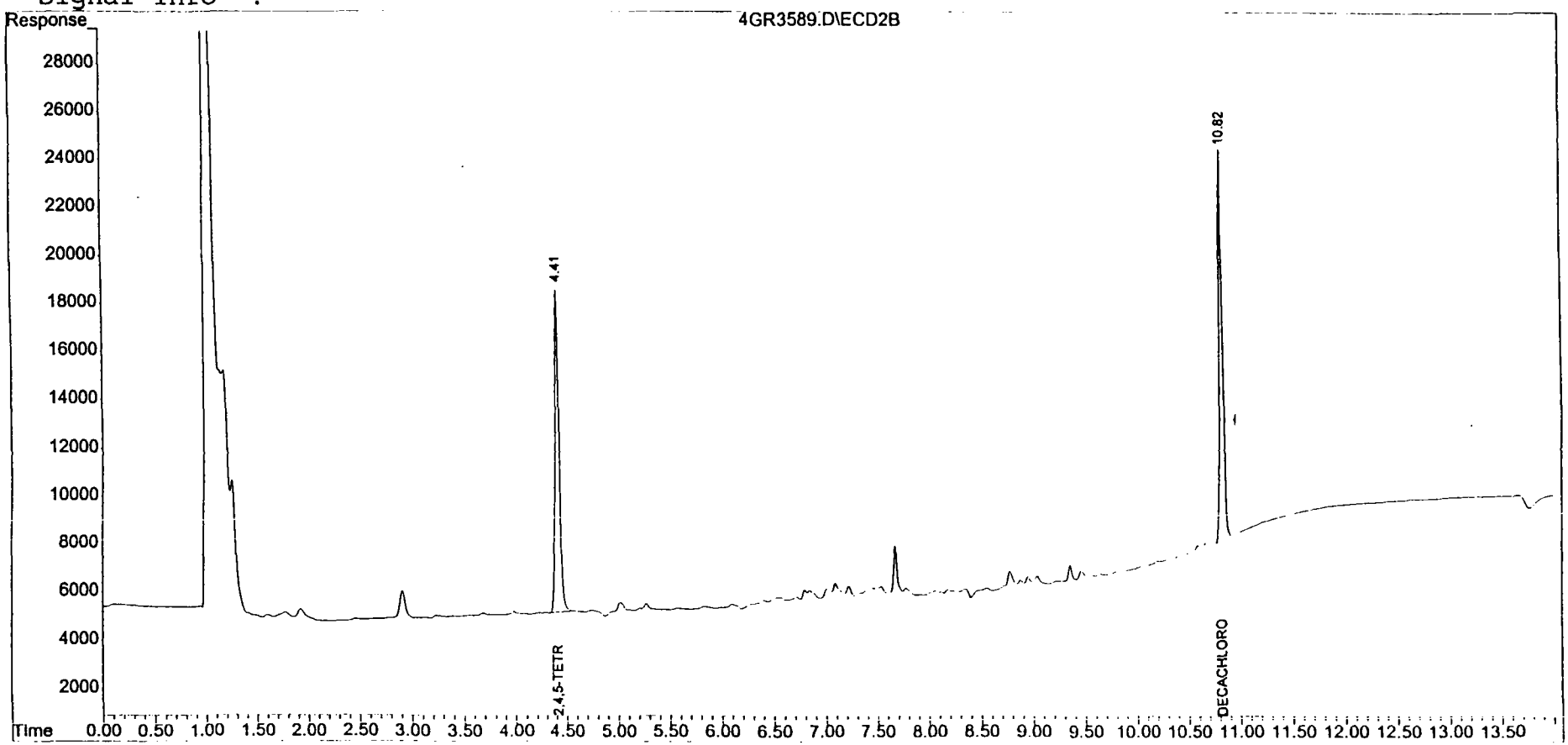
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3589.D Vial: 81
Acq On : 28 Apr 2000 20:19 Operator: ECL
Sample : L0004550-05 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:24 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3590.D Vial: 82
Acq On : 28 Apr 2000 20:37 Operator: ECL
Sample : L0004550-06 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:24 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.41	379122	9.426 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	47.13%
2) S DECACHLOROBIPHENYL	10.82	572984	13.593 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	67.97%
Target Compounds			
2) L1 PCB 1016-1	0.00	0	N.D. UG/L
3) L1 PCB 1016-2	0.00	0	N.D. UG/L
4) L1 PCB 1016-3	0.00	0	N.D. UG/L
5) L1 PCB 1016-4	0.00	0	N.D. UG/L
6) L1 PCB 1016-5	0.00	0	N.D. UG/L
Sum PCB 1016-1		0	N.D. UG/L
Average PCB 1016-1			0.000 UG/L
7) L2 PCB 1260-1	0.00	0	N.D. UG/L
8) L2 PCB 1260-2	0.00	0	N.D. UG/L
9) L2 PCB 1260-3	0.00	0	N.D. UG/L
10) L2 PCB 1260-4	0.00	0	N.D. UG/L
11) L2 PCB 1260-5	0.00	0	N.D. UG/L
Sum PCB 1260-1		0	N.D. UG/L
Average PCB 1260-1			0.000 UG/L

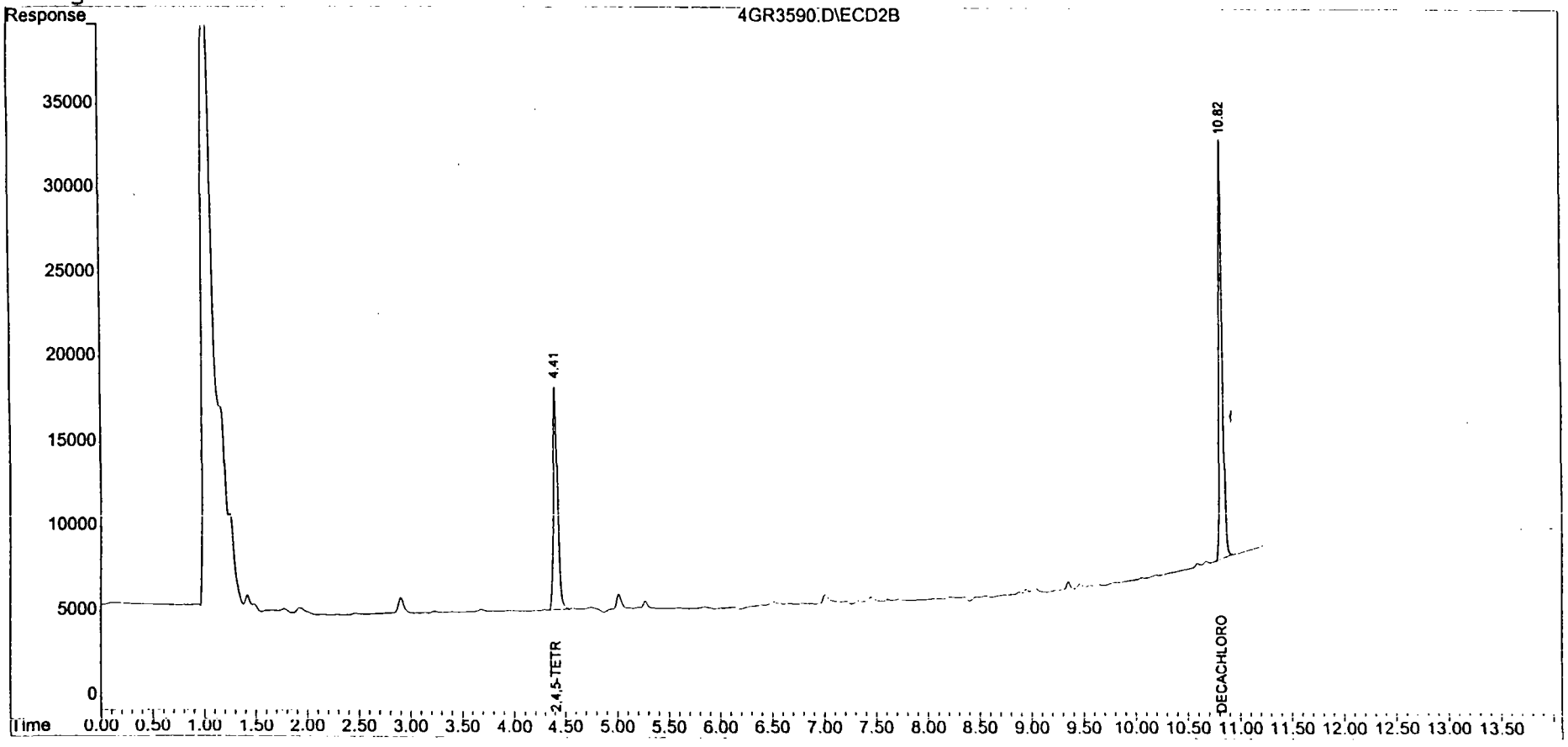
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3590.D Vial: 82
Acq On : 28 Apr 2000 20:37 Operator: ECL
Sample : L0004550-06 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:24 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3591.D Vial: 83
Acq On : 28 Apr 2000 20:56 Operator: ECL
Sample : L0004550-07 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:24 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

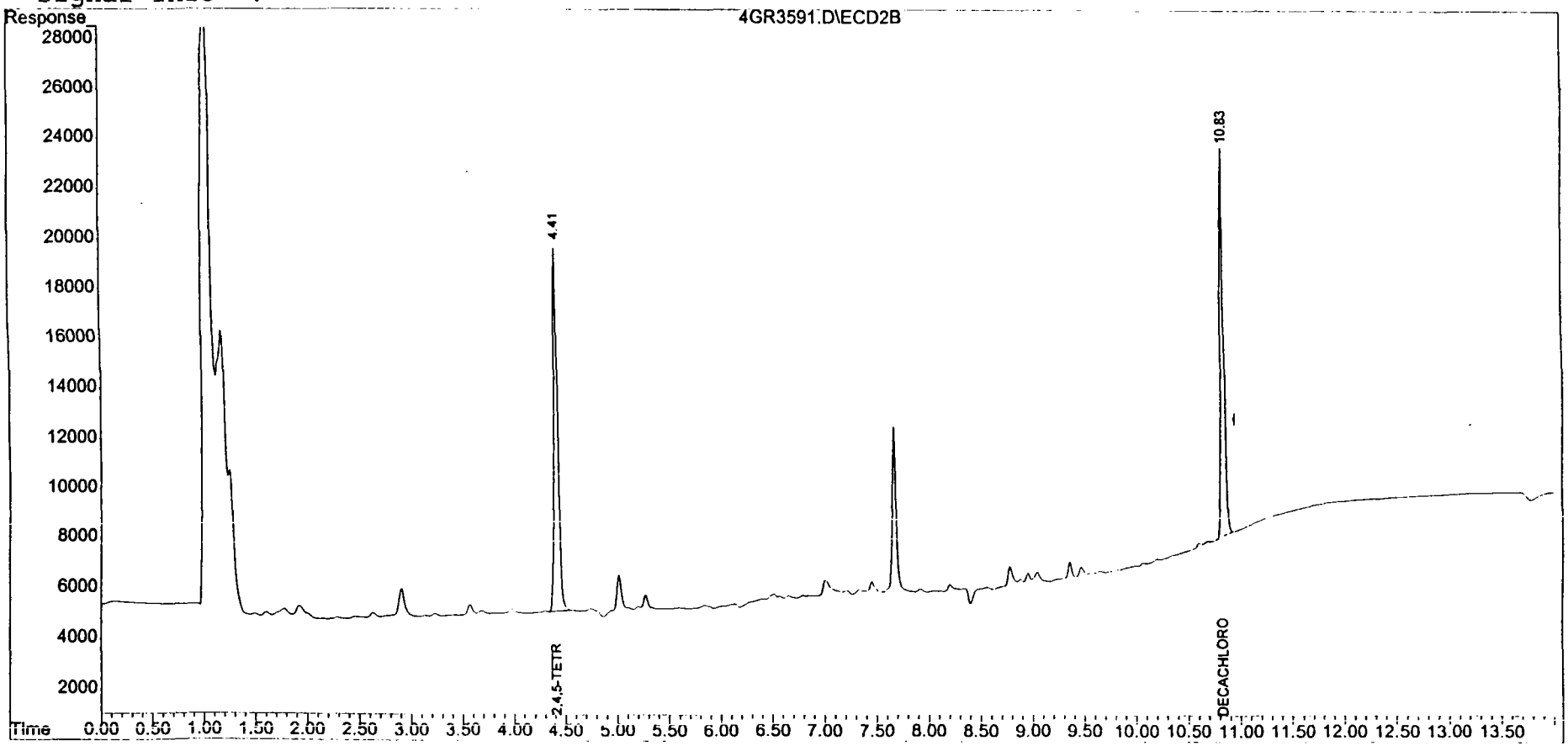
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.41	418239	10.399 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	51.99%
12) S DECACHLOROBIPHENYL	10.83	353271	8.380 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	41.90%
Target Compounds			
2) L1 PCB 1016-1	0.00	0	N.D. UG/L
3) L1 PCB 1016-2	0.00	0	N.D. UG/L
4) L1 PCB 1016-3	0.00	0	N.D. UG/L
5) L1 PCB 1016-4	0.00	0	N.D. UG/L
6) L1 PCB 1016-5	0.00	0	N.D. UG/L
Sum PCB 1016-1		0	N.D. UG/L
Average PCB 1016-1			0.000 UG/L
7) L2 PCB 1260-1	0.00	0	N.D. UG/L
8) L2 PCB 1260-2	0.00	0	N.D. UG/L
9) L2 PCB 1260-3	0.00	0	N.D. UG/L
10) L2 PCB 1260-4	0.00	0	N.D. UG/L
11) L2 PCB 1260-5	0.00	0	N.D. UG/L
Sum PCB 1260-1		0	N.D. UG/L
Average PCB 1260-1			0.000 UG/L

f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3591.D Vial: 83
Acq On : 28 Apr 2000 20:56 Operator: ECL
Sample : L0004550-07 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:24 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



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Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3592.D Vial: 84
Acq On : 28 Apr 2000 21:14 Operator: ECL
Sample : L0004550-08 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:24 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

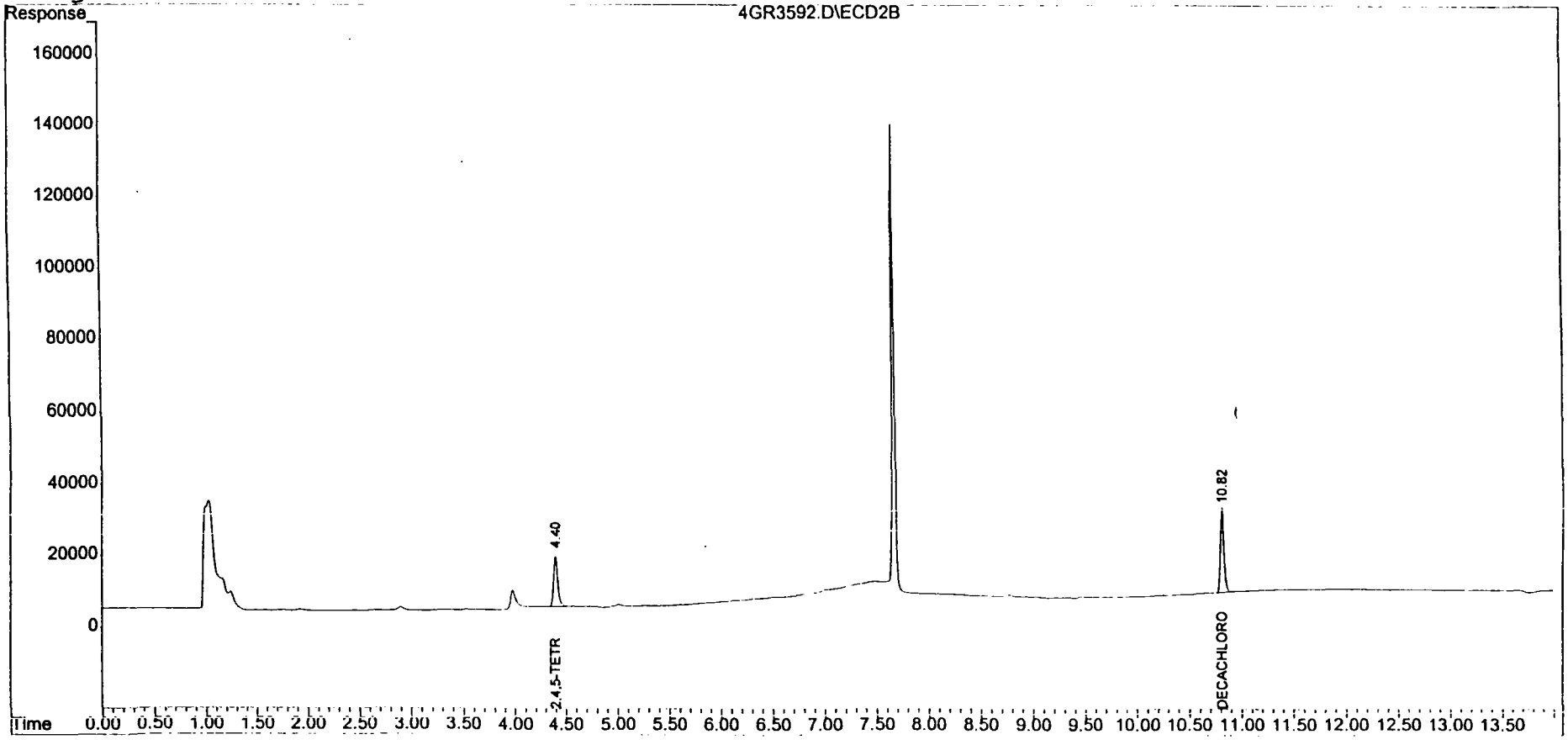
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.41	403386	10.029 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	50.14%
12) S DECACHLOROBIPHENYL	10.82	560563	13.298 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	66.49%
Target Compounds			
2) L1 PCB 1016-1	0.00	0	N.D. UG/L
3) L1 PCB 1016-2	0.00	0	N.D. UG/L
4) L1 PCB 1016-3	0.00	0	N.D. UG/L
5) L1 PCB 1016-4	0.00	0	N.D. UG/L
6) L1 PCB 1016-5	0.00	0	N.D. UG/L
Sum PCB 1016-1		0	N.D. UG/L
Average PCB 1016-1			0.000 UG/L
7) L2 PCB 1260-1	0.00	0	N.D. UG/L
8) L2 PCB 1260-2	0.00	0	N.D. UG/L
9) L2 PCB 1260-3	0.00	0	N.D. UG/L
10) L2 PCB 1260-4	0.00	0	N.D. UG/L
11) L2 PCB 1260-5	0.00	0	N.D. UG/L
Sum PCB 1260-1		0	N.D. UG/L
Average PCB 1260-1			0.000 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3592.D Vial: 84
Acq On : 28 Apr 2000 21:14 Operator: ECL
Sample : L0004550-08 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:24 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



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Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3595.D Vial: 87
Acq On : 28 Apr 2000 22:09 Operator: ECL
Sample : L0004550-09 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:24 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.42	460970	11.461 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	57.31%
12) S DECACHLOROBIPHENYL	10.82	366879	8.703 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	43.52%
Target Compounds			
2) L1 PCB 1016-1	5.28	25580	0.333 UG/L
3) L1 PCB 1016-2	0.00	0	N.D. UG/L
4) L1 PCB 1016-3	0.00	0	N.D. UG/L
5) L1 PCB 1016-4	0.00	0	N.D. UG/L
6) L1 PCB 1016-5	0.00	0	N.D. UG/L
Sum PCB 1016-1		25580	0.333 UG/L
Average PCB 1016-1			0.333 UG/L
7) L2 PCB 1260-1	0.00	0	N.D. UG/L
8) L2 PCB 1260-2	0.00	0	N.D. UG/L
9) L2 PCB 1260-3	0.00	0	N.D. UG/L
10) L2 PCB 1260-4	0.00	0	N.D. UG/L
11) L2 PCB 1260-5	0.00	0	N.D. UG/L
Sum PCB 1260-1		0	N.D. UG/L
Average PCB 1260-1			0.000 UG/L

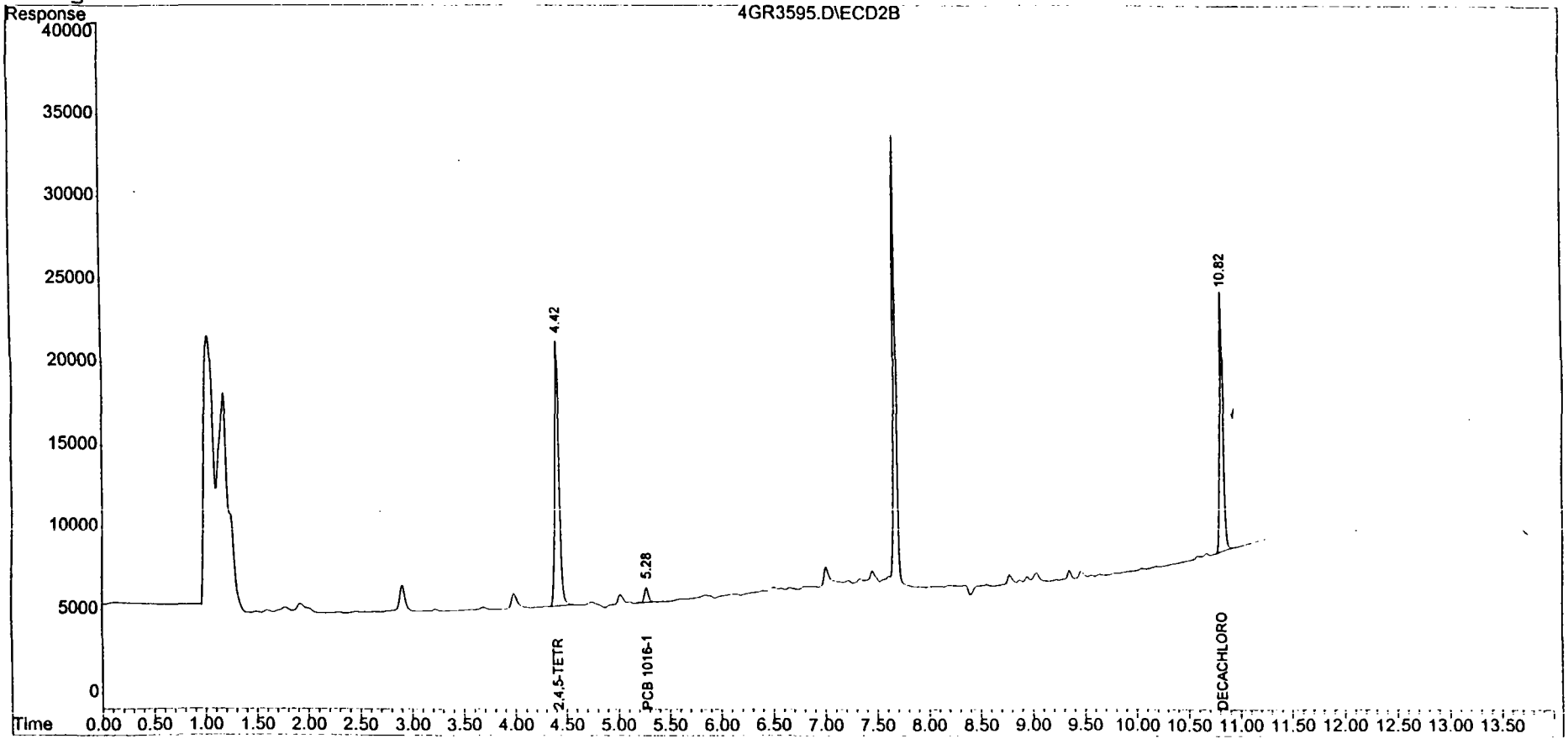
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3595.D Vial: 87
Acq On : 28 Apr 2000 22:09 Operator: ECL
Sample : L0004550-09 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:24 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



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Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3596.D Vial: 88
Acq On : 28 Apr 2000 22:27 Operator: ECL
Sample : L0004550-10 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:24 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.41	494080	12.284 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	61.42%
2) S DECACHLOROBIPHENYL	10.82	340177	8.070 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	40.35%
Target Compounds			
2) L1 PCB 1016-1	0.00	0	N.D. UG/L
3) L1 PCB 1016-2	0.00	0	N.D. UG/L
4) L1 PCB 1016-3	0.00	0	N.D. UG/L
5) L1 PCB 1016-4	0.00	0	N.D. UG/L
6) L1 PCB 1016-5	0.00	0	N.D. UG/L
Sum PCB 1016-1		0	N.D. UG/L
Average PCB 1016-1			0.000 UG/L
7) L2 PCB 1260-1	0.00	0	N.D. UG/L
8) L2 PCB 1260-2	0.00	0	N.D. UG/L
9) L2 PCB 1260-3	0.00	0	N.D. UG/L
10) L2 PCB 1260-4	0.00	0	N.D. UG/L
1) L2 PCB 1260-5	0.00	0	N.D. UG/L
Sum PCB 1260-1		0	N.D. UG/L
Average PCB 1260-1			0.000 UG/L

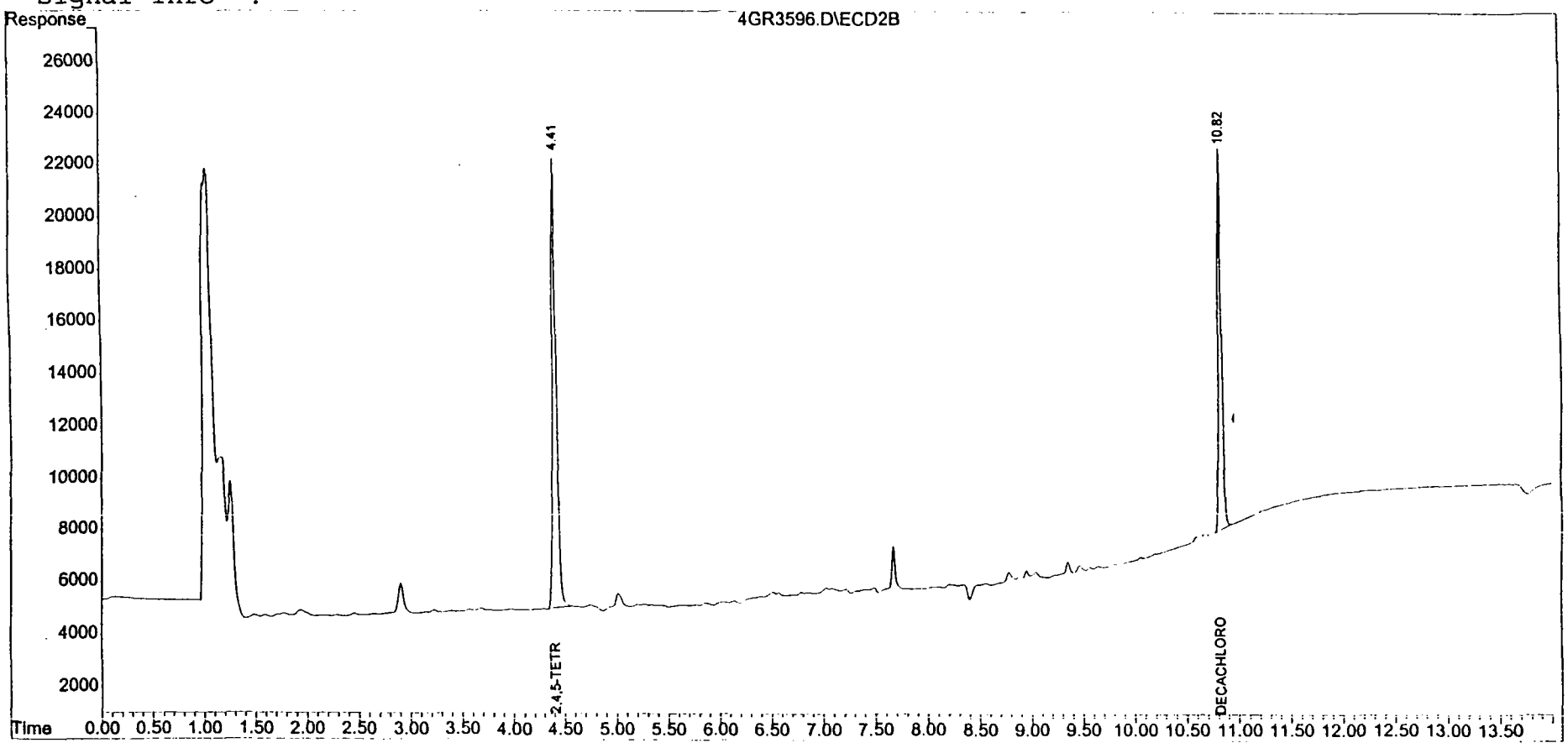
f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3596.D Vial: 88
Acq On : 28 Apr 2000 22:27 Operator: ECL
Sample : L0004550 10 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:24 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



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Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3597.D Vial: 89
Acq On : 28 Apr 2000 22:45 Operator: ECL
Sample : L0004550-11 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:24 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.41	600517	14.931 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	74.65%
12) S DECACHLOROBIPHENYL	10.82	423992	10.058 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	50.29%
Target Compounds			
2) L1 PCB 1016-1	5.25	56983	0.742 UG/L
3) L1 PCB 1016-2	5.82	245334	1.708 UG/L
4) L1 PCB 1016-3	6.40	287506	0.971 UG/L
5) L1 PCB 1016-4	6.57	108127	0.880 UG/L
6) L1 PCB 1016-5	7.22	117863	1.442 UG/L
Sum PCB 1016-1		815813	5.744 UG/L
Average PCB 1016-1			1.149 UG/L
7) L2 PCB 1260-1	0.00	0	N.D. UG/L
8) L2 PCB 1260-2	0.00	0	N.D. UG/L
9) L2 PCB 1260-3	0.00	0	N.D. UG/L
10) L2 PCB 1260-4	0.00	0	N.D. UG/L
11) L2 PCB 1260-5	0.00	0	N.D. UG/L
Sum PCB 1260-1		0	N.D. UG/L
Average PCB 1260-1			0.000 UG/L

1248

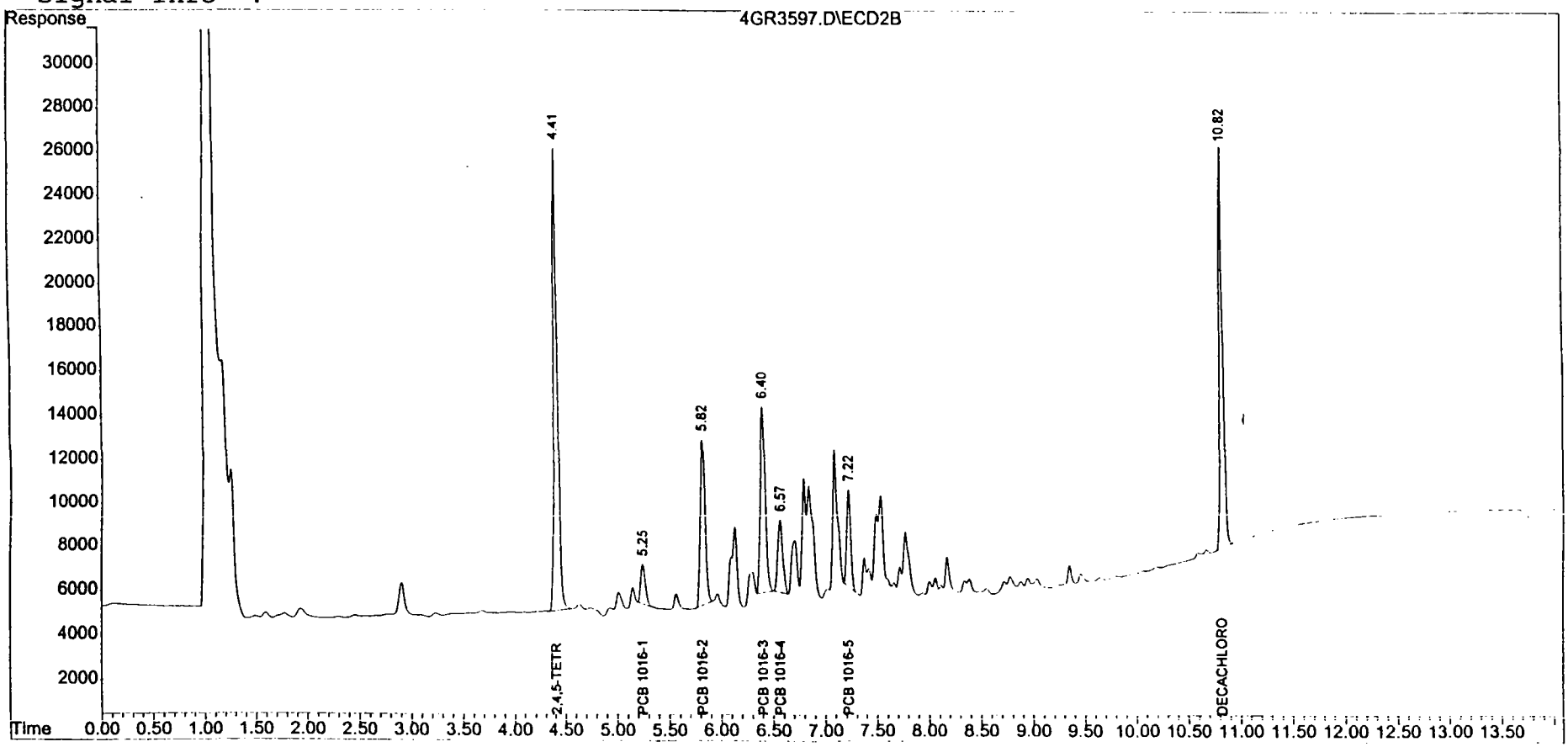
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3597.D Vial: 89
Acq On : 28 Apr 2000 22:45 Operator: ECL
Sample : L0004550-11 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:24 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3597.D Vial: 89
Acq On : 28 Apr 2000 22:45 Operator: ECL
Sample : L0004550-11 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:45 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:20:46 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

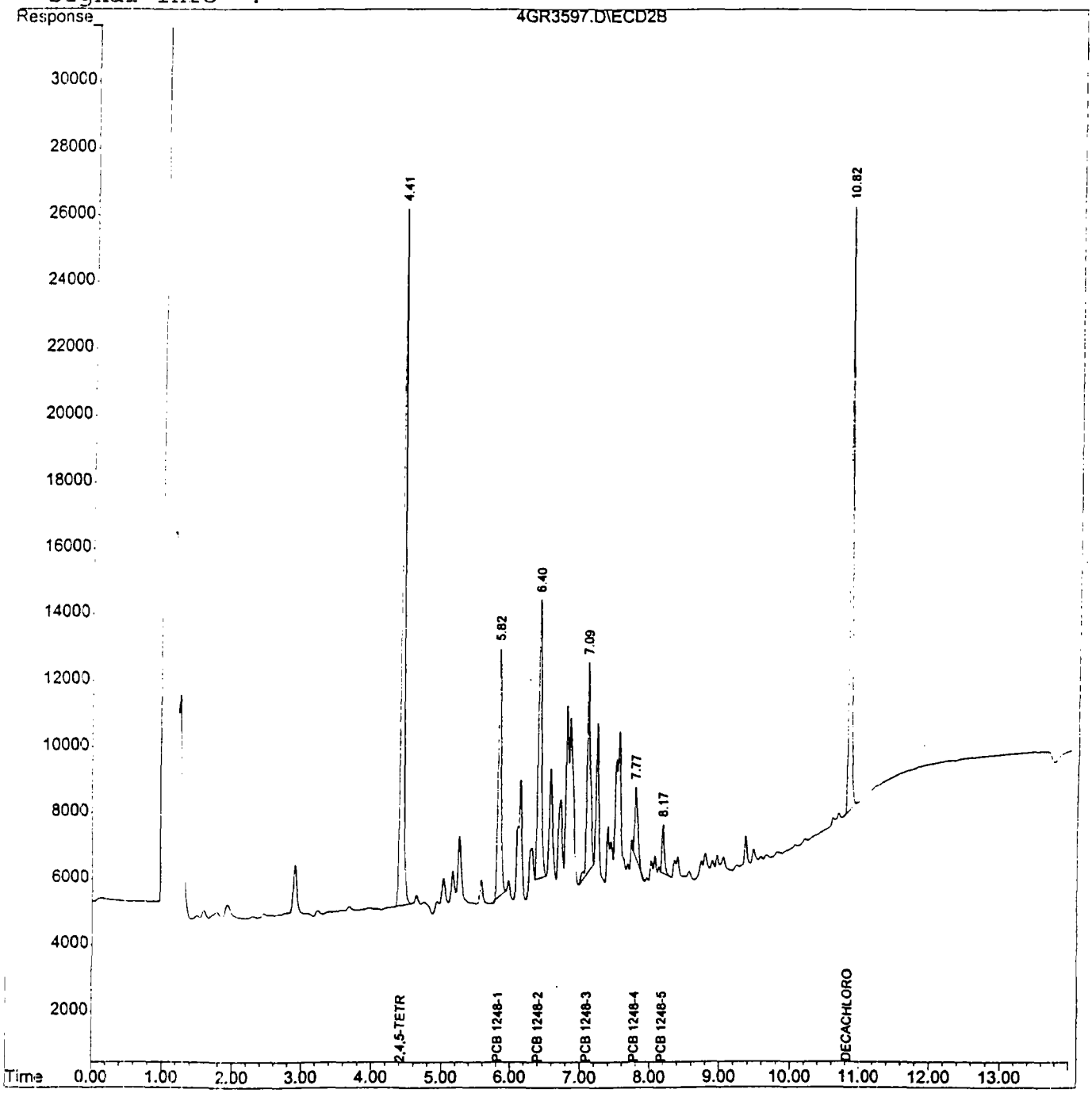
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.41	598746	14.899 UG/L
Spiked Amount 20.000		Recovery =	74.50%
7) S DECACHLOROBIPHENYL	10.82	424125	10.032 UG/L
Spiked Amount 20.000		Recovery =	50.16%
Target Compounds			
2) L1 PCB 1248-1	5.82	242323	3.723 UG/L
3) L1 PCB 1248-2	6.40	287588	1.463 UG/L
4) L1 PCB 1248-3	7.09	209727	1.565 UG/L
5) L1 PCB 1248-4	7.78	66686	0.526 UG/L
6) L1 PCB 1248-5	8.18	37919	0.959 UG/L
Sum PCB 1248-1		844243	8.236 UG/L
Average PCB 1248-1			1.647 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3597.D Vial: 89
Acq On : 28 Apr 2000 22:45 Operator: ECL
Sample : L0004550-11 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:45 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:20:46 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\050200\4GF3883.D Vial: 6
Acq On : 2 May 2000 13:07 Operator: ECL
Sample : L0004550-11 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 3 8:50 2000 Quant Results File: 1248F.RES

Quant Method : C:\HPCHEM\2\METHODS\1248F.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 13:51:33 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	3.22	480185	13.818 UG/L
Spiked Amount 20.000		Recovery =	69.09%
7) S DECACHLOROBIPHENYL	9.64	292187	9.100 UG/L
Spiked Amount 20.000		Recovery =	45.50%
Target Compounds			
2) L1 PCB 1248-1	4.50	195046	3.127 UG/L
3) L1 PCB 1248-2	5.18	185492	1.138 UG/L
4) L1 PCB 1248-3	5.89	147240	1.196 UG/L
5) L1 PCB 1248-4	7.05	33775	0.661 UG/L
6) L1 PCB 1248-5	7.34	14786	0.320 UG/L
Sum PCB 1248-1		576339	6.442 UG/L
Average PCB 1248-1			1.288 UG/L

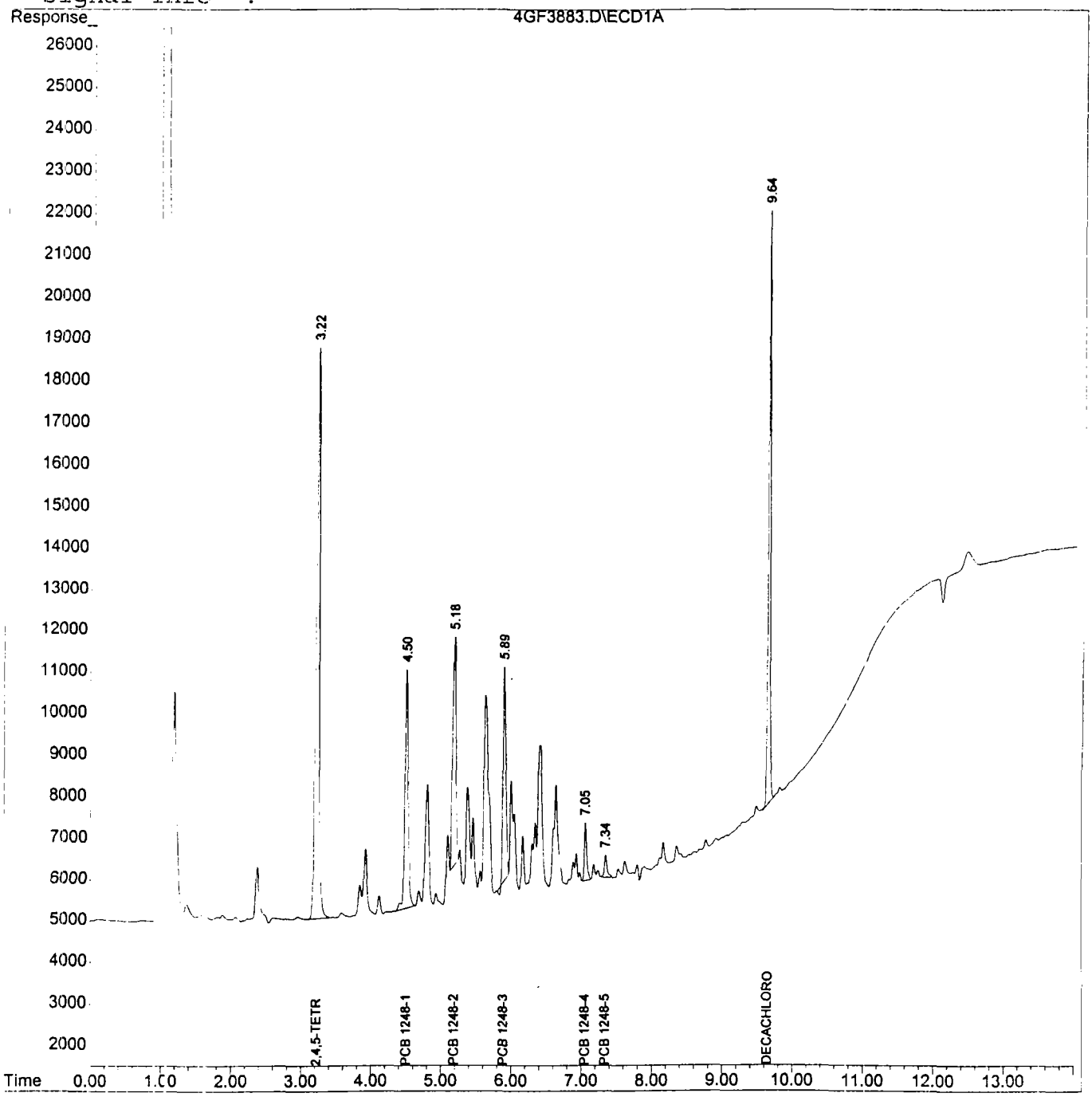
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\050200\4GF3883.D Vial: 6
Acq On : 2 May 2000 13:07 Operator: ECL
Sample : L0004550-11 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 3 8:50 2000 Quant Results File: 1248F.RES

Quant Method : C:\HPCHEM\2\METHODS\1248F.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 13:51:33 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3598.D Vial: 90
Acq On : 28 Apr 2000 23:03 Operator: ECL
Sample : L0004550-12 DUP Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:24 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.41	643697	16.004 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	80.02%
12) S DECACHLOROBIPHENYL	10.82	441168	10.466 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	52.33%
Target Compounds			
2) L1 PCB 1016-1	5.25	77554	1.010 UG/L
3) L1 PCB 1016-2	5.82	301786	2.101 UG/L
4) L1 PCB 1016-3	6.40	350536	1.184 UG/L
5) L1 PCB 1016-4	6.57	128159	1.043 UG/L
6) L1 PCB 1016-5	7.22	129709	1.587 UG/L
Sum PCB 1016-1		987744	6.926 UG/L
Average PCB 1016-1			1.385 UG/L
7) L2 PCB 1260-1	0.00	0	N.D. UG/L
8) L2 PCB 1260-2	0.00	0	N.D. UG/L
9) L2 PCB 1260-3	0.00	0	N.D. UG/L
10) L2 PCB 1260-4	0.00	0	N.D. UG/L
11) L2 PCB 1260-5	0.00	0	N.D. UG/L
Sum PCB 1260-1		0	N.D. UG/L
Average PCB 1260-1			0.000 UG/L

1248

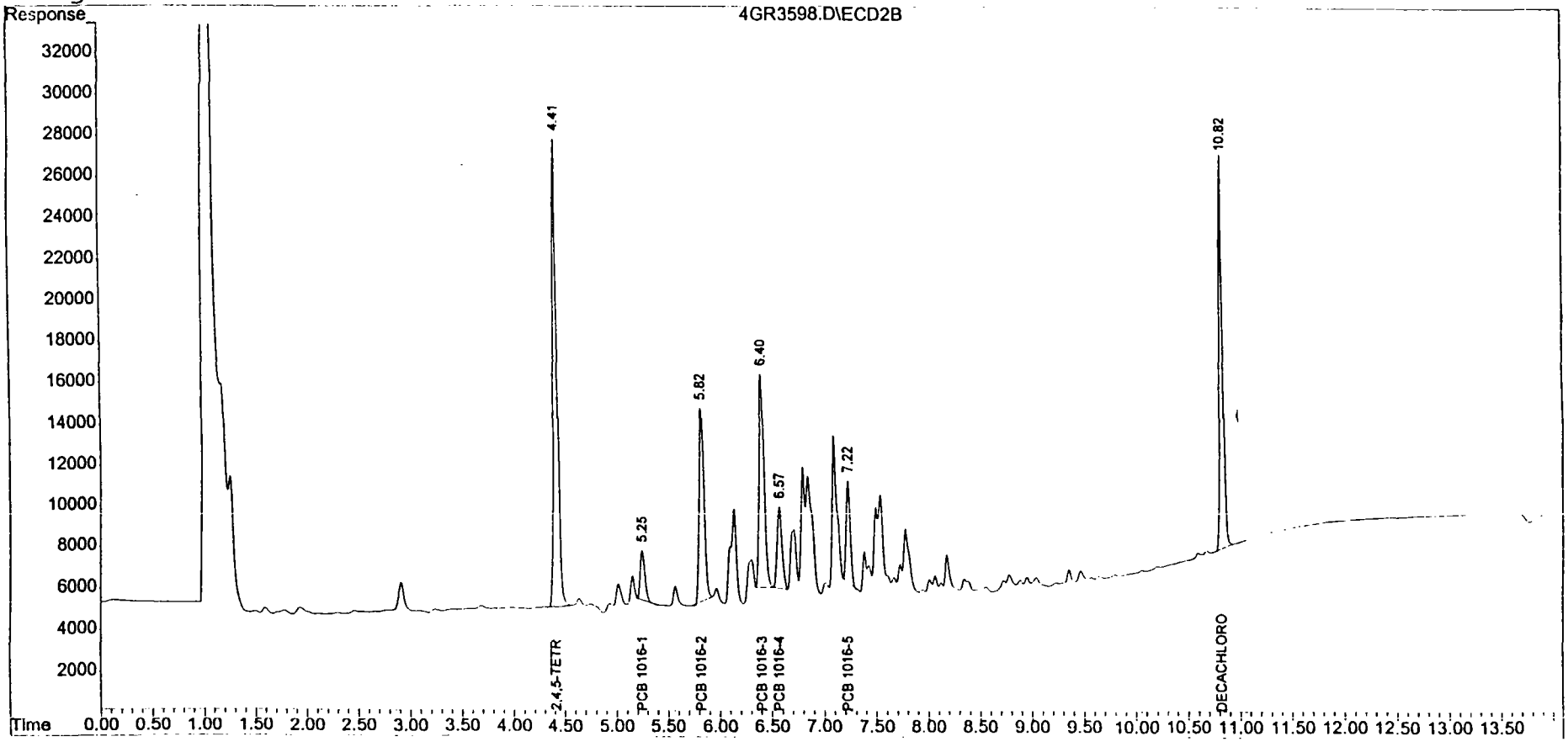
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3598.D Vial: 90
Acq On : 28 Apr 2000 23:03 Operator: ECL
Sample : L0004550-12 DUP Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:24 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3598.D Vial: 90
Acq On : 28 Apr 2000 23:03 Operator: ECL
Sample : L0004550-12 DUP Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:45 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:20:46 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

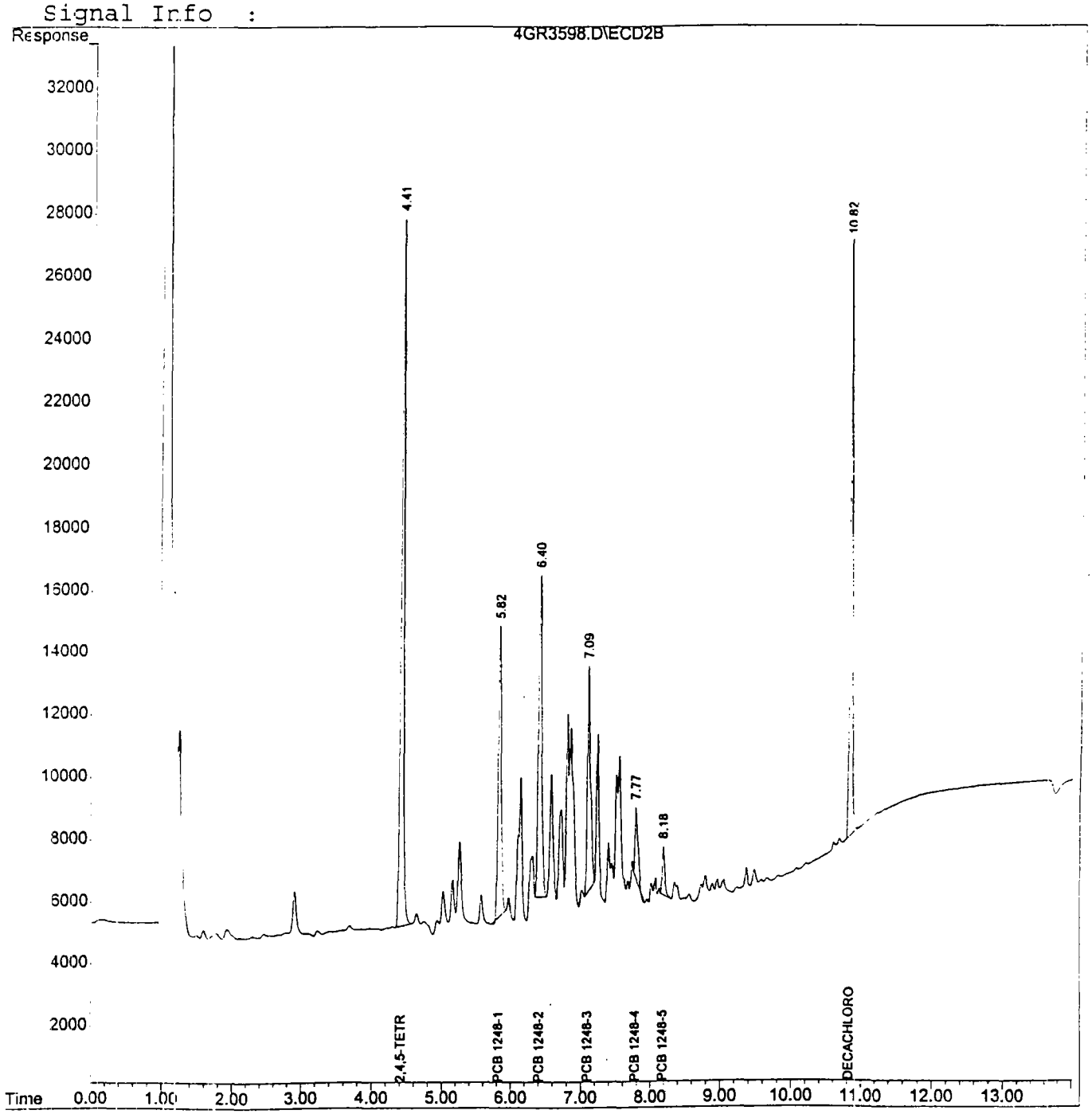
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.41	644266	16.032 UG/L
Spiked Amount 20.000		Recovery =	80.16%
7) S DECACHLOROBIPHENYL	10.82	440999	10.431 UG/L
Spiked Amount 20.000		Recovery =	52.15%
Target Compounds			
2) L1 PCB 1248-1	5.82	300787	4.621 UG/L
3) L1 PCB 1248-2	6.40	350564	1.784 UG/L
4) L1 PCB 1248-3	7.09	226616	1.691 UG/L
5) L1 PCB 1248-4	7.78	70776	0.558 UG/L
6) L1 PCB 1248-5	8.18	42093	1.064 UG/L
Sum PCB 1248-1		990837	9.718 UG/L
Average PCB 1248-1			1.944 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3598.D Vial: 90
Acq On : 28 Apr 2000 23:03 Operator: ECL
Sample : L0004550-12 DUP Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:45 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:20:46 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\050200\4GF3884.D Vial: 7
Acq On : 2 May 2000 13:25 Operator: ECL
Sample : L0004550-12 DUP Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 3 8:50 2000 Quant Results File: 1248F.RES

Quant Method : C:\HPCHEM\2\METHODS\1248F.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 13:51:33 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	3.22	546450	15.725 UG/L
Spiked Amount 20.000		Recovery =	78.63%
7) S DECACHLOROBIPHENYL	9.64	323874	10.087 UG/L
Spiked Amount 20.000		Recovery =	50.43%
Target Compounds			
2) L1 PCB 1248-1	4.50	242783	3.892 UG/L
3) L1 PCB 1248-2	5.18	235631	1.446 UG/L
4) L1 PCB 1248-3	5.89	186204	1.512 UG/L
5) L1 PCB 1248-4	7.05	40756	0.798 UG/L
6) L1 PCB 1248-5	7.33	10631	0.230 UG/L
Sum PCB 1248-1		716005	7.878 UG/L
Average PCB 1248-1			1.576 UG/L

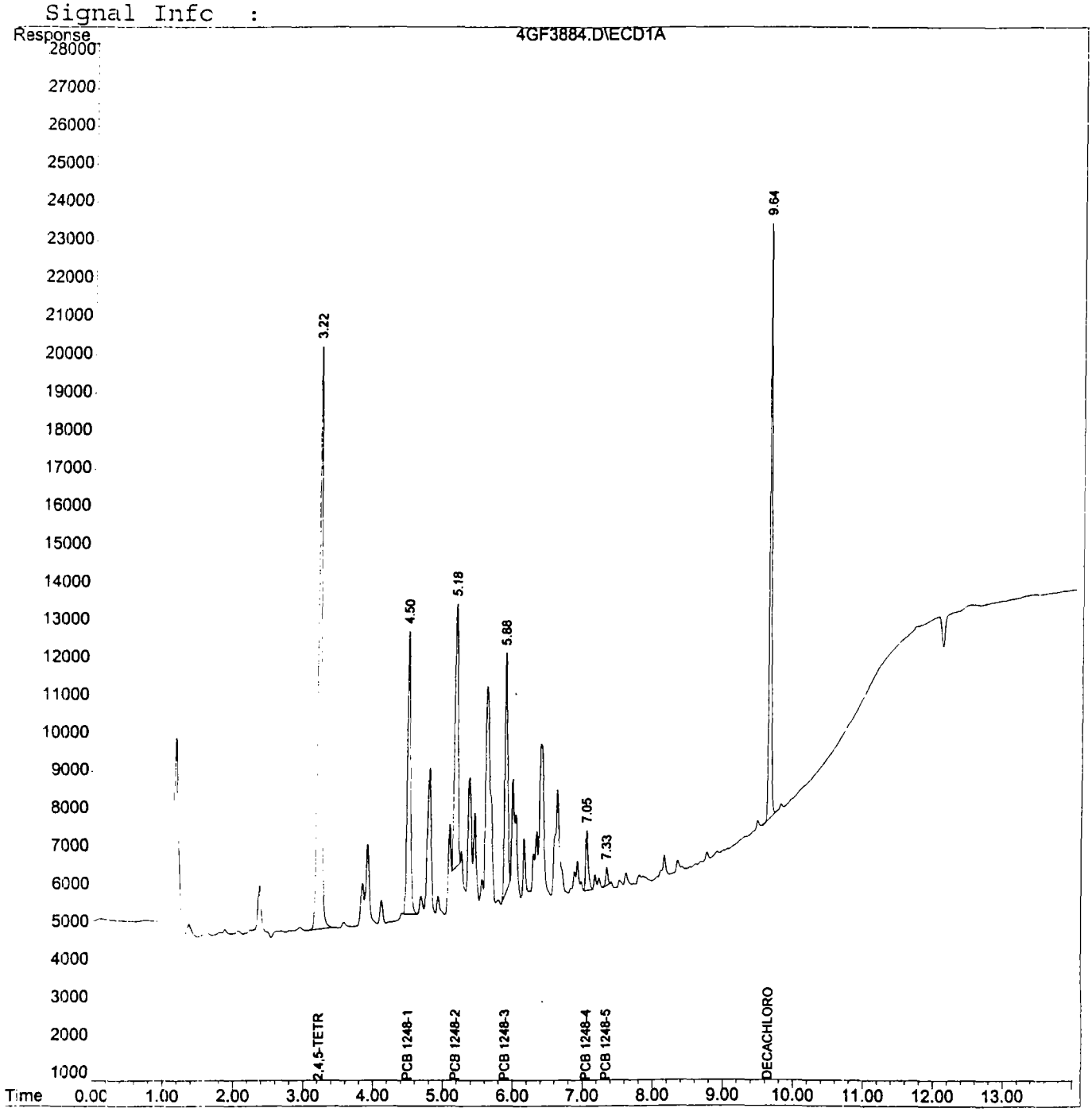
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\050200\4GF3884.D Vial: 7
Acq On : 2 May 2000 13:25 Operator: ECL
Sample : L0004550-12 DUP Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 3 8:50 2000 Quant Results File: 1248F.RES

Quant Method : C:\HPCHEM\2\METHODS\1248F.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 13:51:33 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3599.D Vial: 91
Acq On : 28 Apr 2000 23:22 Operator: ECL
Sample : L0004550-13 MS WG75921-04 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:46 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:20:46 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

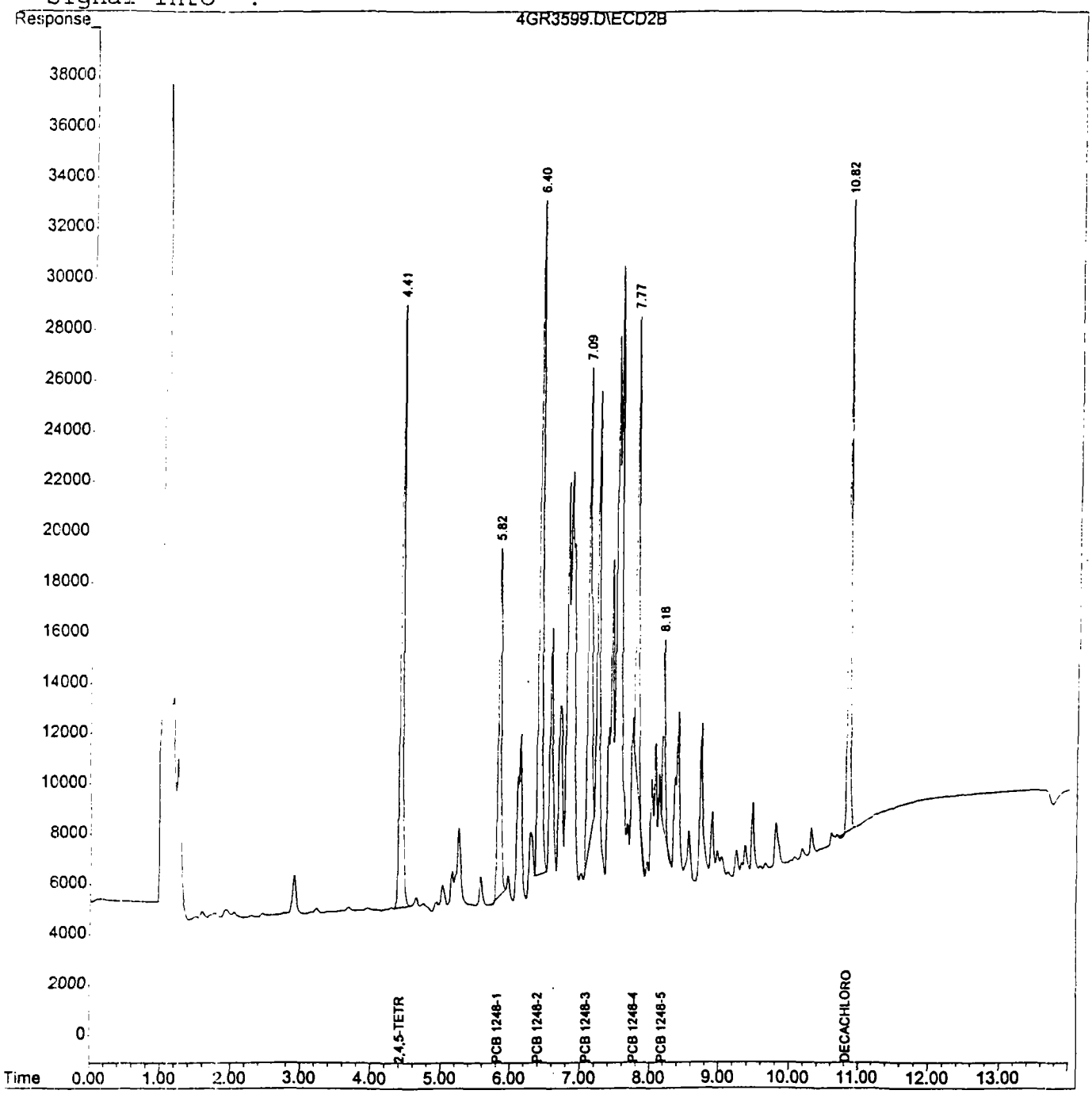
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.41	677951	16.870 UG/L
Spiked Amount 20.000		Recovery =	84.35%
7) S DECACHLOROBIPHENYL	10.82	571858	13.527 UG/L
Spiked Amount 20.000		Recovery =	67.64%
Target Compounds			
2) L1 PCB 1248-1	5.82	440657	6.770 UG/L
3) L1 PCB 1248-2	6.40	890002	4.529 UG/L
4) L1 PCB 1248-3	7.09	611219	4.560 UG/L
5) L1 PCB 1248-4	7.77	465365	3.672 UG/L
6) L1 PCB 1248-5	8.18	170904	4.321 UG/L
Sum PCB 1248-1		2578147	23.852 UG/L
Average PCB 1248-1			4.770 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3599.D Vial: 91
Acq On : 28 Apr 2000 23:22 Operator: ECL
Sample : L0004550-13 MS WG75921-04 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:46 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:20:46 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3599.D Vial: 91
Acq On : 28 Apr 2000 23:22 Operator: ECL
Sample : L0004550-13 MS WG75921-04 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:24 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.41	676161	16.812 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	84.06%
12) S DECACHLOROBIPHENYL	10.82	577984	13.711 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	68.55%
Target Compounds			
2) L1 PCB 1016-1	5.25	72004	0.937 UG/L
3) L1 PCB 1016-2	5.82	442331	3.080 UG/L
4) L1 PCB 1016-3	6.40	889757	3.006 UG/L
5) L1 PCB 1016-4	6.57	303524	2.471 UG/L
6) L1 PCB 1016-5	7.22	471088	5.765 UG/L
Sum PCB 1016-1		2178704	15.260 UG/L
Average PCB 1016-1			3.052 UG/L
7) L2 PCB 1260-1	8.39f	72898	0.414 UG/L
8) L2 PCB 1260-2	8.72	193147	1.037 UG/L
9) L2 PCB 1260-3	8.89	51874	0.221 UG/L
10) L2 PCB 1260-4	9.46	66606	0.217 UG/L
11) L2 PCB 1260-5	9.79	63124	0.169 UG/L
Sum PCB 1260-1		447649	2.057 UG/L
Average PCB 1260-1			0.411 UG/L

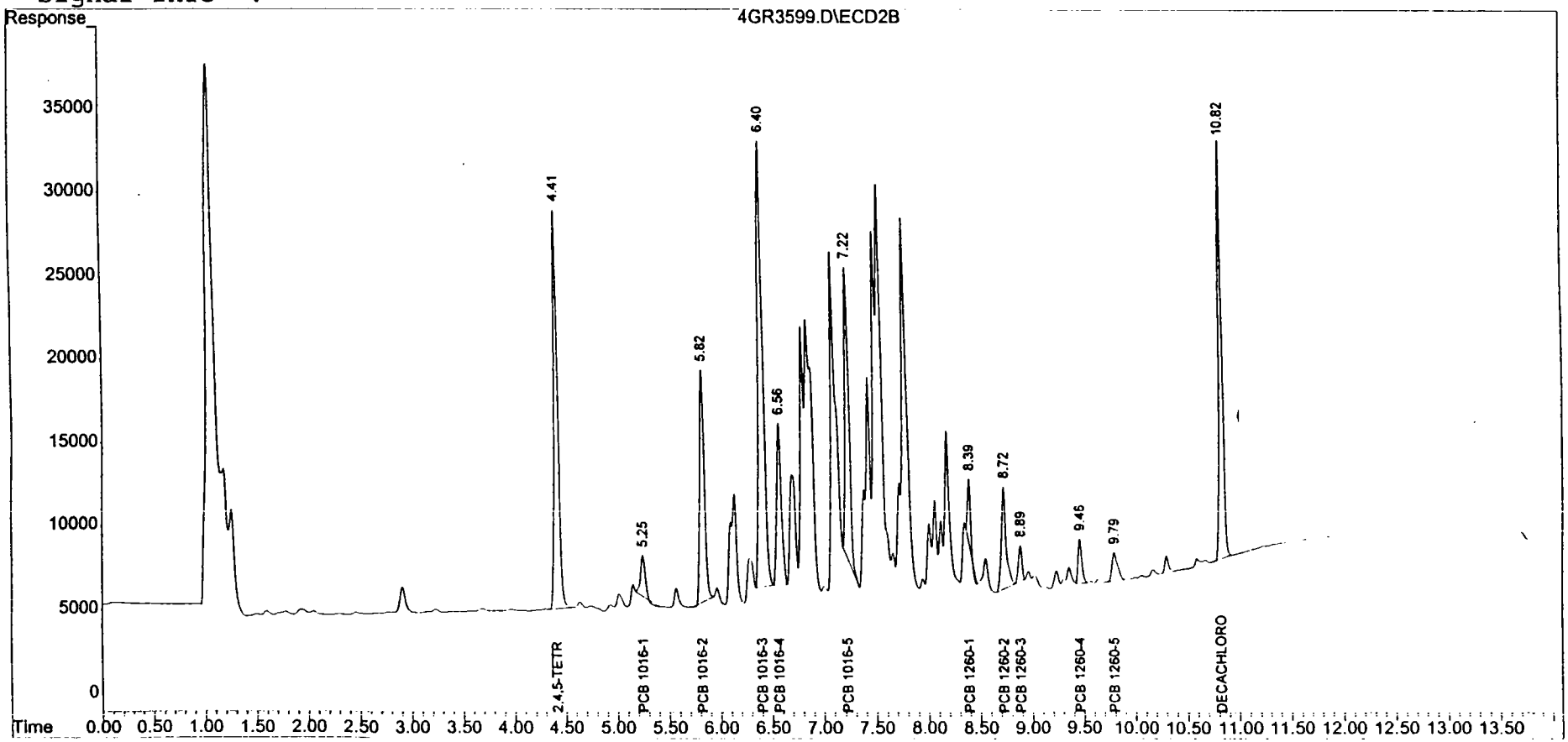
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3599.D Vial: 91
Acq On : 28 Apr 2000 23:22 Operator: ECL
Sample : L0004550-13 MS WG75921-04 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:24 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3600.D Vial: 92
Acq On : 28 Apr 2000 23:41 Operator: ECL
Sample : L0004550-14 MSD WG75921-05 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:46 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:20:46 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

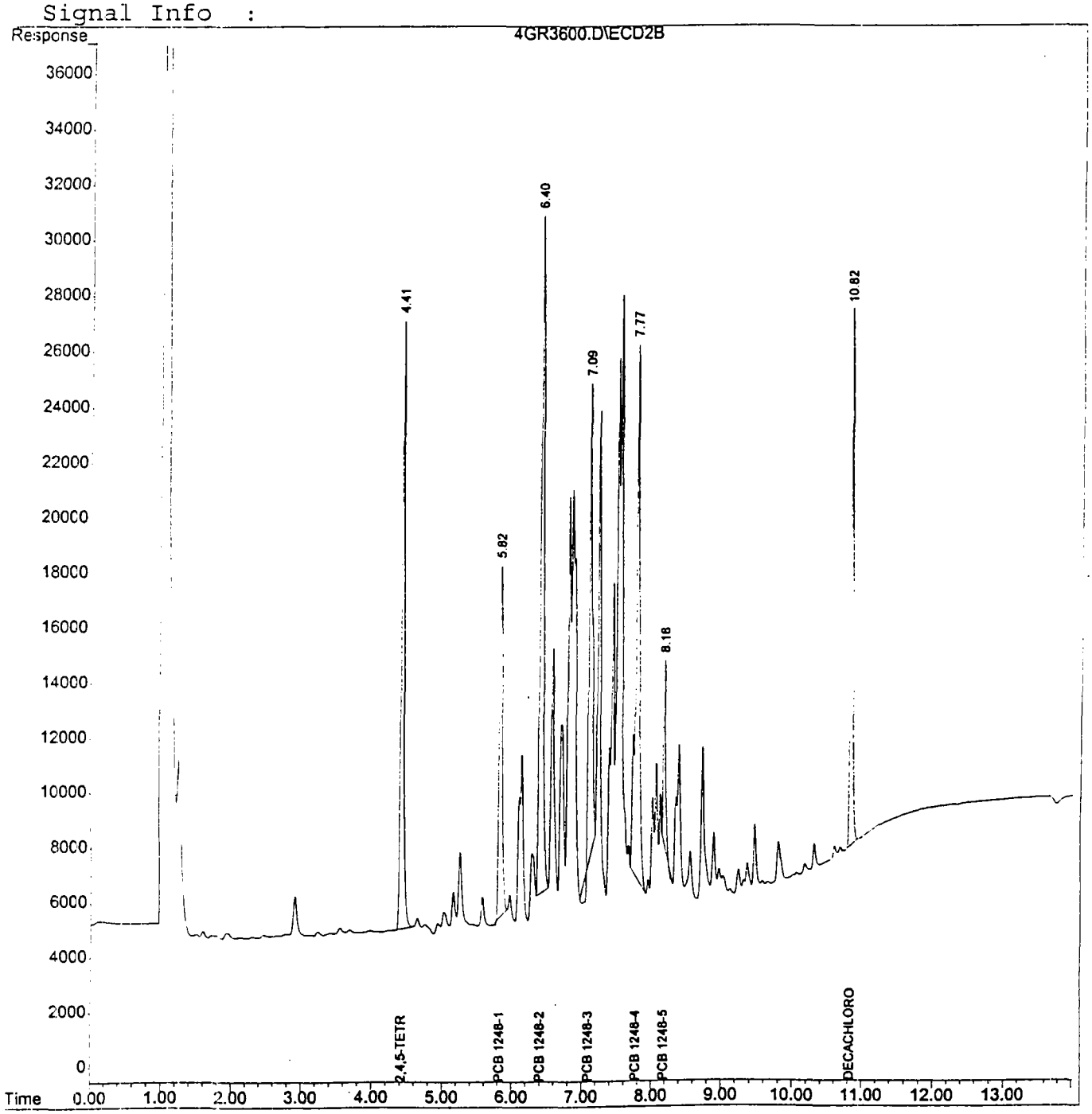
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.42	625151	15.556 UG/L
Spiked Amount 20.000		Recovery =	77.78%
7) S DECACHLOROBIPHENYL	10.82	451520	10.680 UG/L
Spiked Amount 20.000		Recovery =	53.40%
Target Compounds			
2) L1 PCB 1248-1	5.82	404933	6.221 UG/L
3) L1 PCB 1248-2	6.40	818182	4.163 UG/L
4) L1 PCB 1248-3	7.09	502297	3.747 UG/L
5) L1 PCB 1248-4	7.77	732317	5.778 UG/L
6) L1 PCB 1248-5	8.18	152949	3.867 UG/L
Sum PCB 1248-1		2610678	23.777 UG/L
Average PCB 1248-1			4.755 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3600.D Vial: 92
Acq On : 28 Apr 2000 23:41 Operator: ECL
Sample : L0004550-14 MSD WG75921-05 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:46 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:20:46 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3600.D Vial: 92
Acq On : 28 Apr 2000 23:41 Operator: ECL
Sample : L0004550-14 MSD WG75921-05 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:24 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.42	626274	15.571 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	77.85%
12) S DECACHLOROBIPHENYL	10.82	449869	10.672 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	53.36%
Target Compounds			
2) L1 PCB 1016-1	5.25	73645	0.959 UG/L
3) L1 PCB 1016-2	5.82	408426	2.844 UG/L
4) L1 PCB 1016-3	6.40	818164	2.764 UG/L
5) L1 PCB 1016-4	6.57	277091	2.256 UG/L
6) L1 PCB 1016-5	7.22	435001	5.323 UG/L
Sum PCB 1016-1		2012326	14.146 UG/L
Average PCB 1016-1			2.829 UG/L
7) L2 PCB 1260-1	8.39f	52686	0.299 UG/L
8) L2 PCB 1260-2	8.72	170947	0.918 UG/L
9) L2 PCB 1260-3	8.89	43712	0.186 UG/L
10) L2 PCB 1260-4	9.46	54698	0.178 UG/L
11) L2 PCB 1260-5	9.79	53411	0.143 UG/L
Sum PCB 1260-1		375453	1.724 UG/L
Average PCB 1260-1			0.345 UG/L

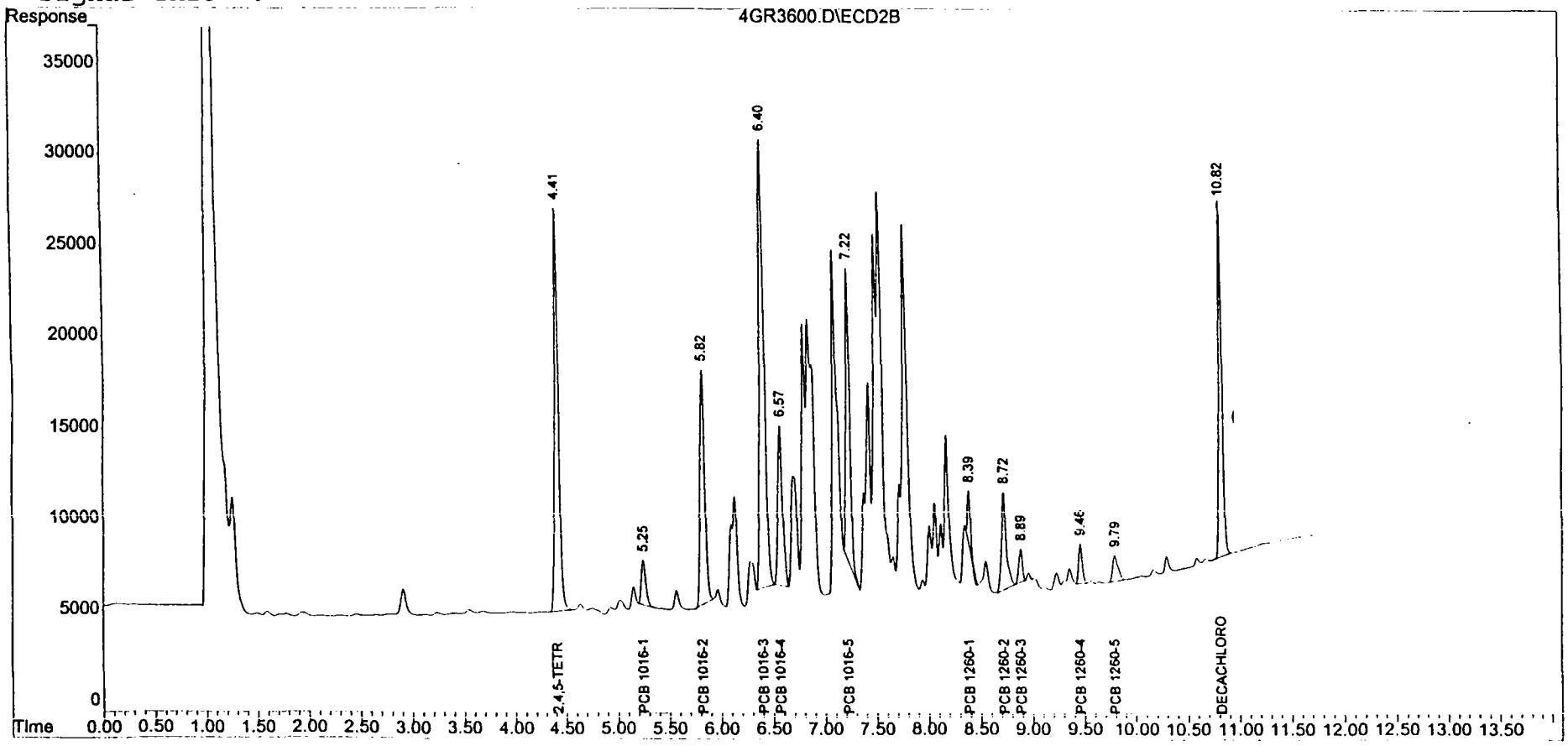
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3600.D Vial: 92
Acq On : 28 Apr 2000 23:41 Operator: ECL
Sample : L0004550-14 MSD WG75921 05 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:24 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3601.D Vial: 93
Acq On : 28 Apr 2000 23:59 Operator: ECL
Sample : L0004550-16 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:24 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.41	595054	14.795 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	73.98%
12) S DECACHLOROBIPHENYL	10.82	493268	11.701 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	58.51%
Target Compounds			
2) L1 PCB 1016-1	0.00	0	N.D. UG/L
3) L1 PCB 1016-2	0.00	0	N.D. UG/L
4) L1 PCB 1016-3	0.00	0	N.D. UG/L
5) L1 PCB 1016-4	0.00	0	N.D. UG/L
6) L1 PCB 1016-5	0.00	0	N.D. UG/L
Sum PCB 1016-1		0	N.D. UG/L
Average PCB 1016-1			0.000 UG/L
7) L2 PCB 1260-1	0.00	0	N.D. UG/L
8) L2 PCB 1260-2	0.00	0	N.D. UG/L
9) L2 PCB 1260-3	0.00	0	N.D. UG/L
10) L2 PCB 1260-4	0.00	0	N.D. UG/L
11) L2 PCB 1260-5	0.00	0	N.D. UG/L
Sum PCB 1260-1		0	N.D. UG/L
Average PCB 1260-1			0.000 UG/L

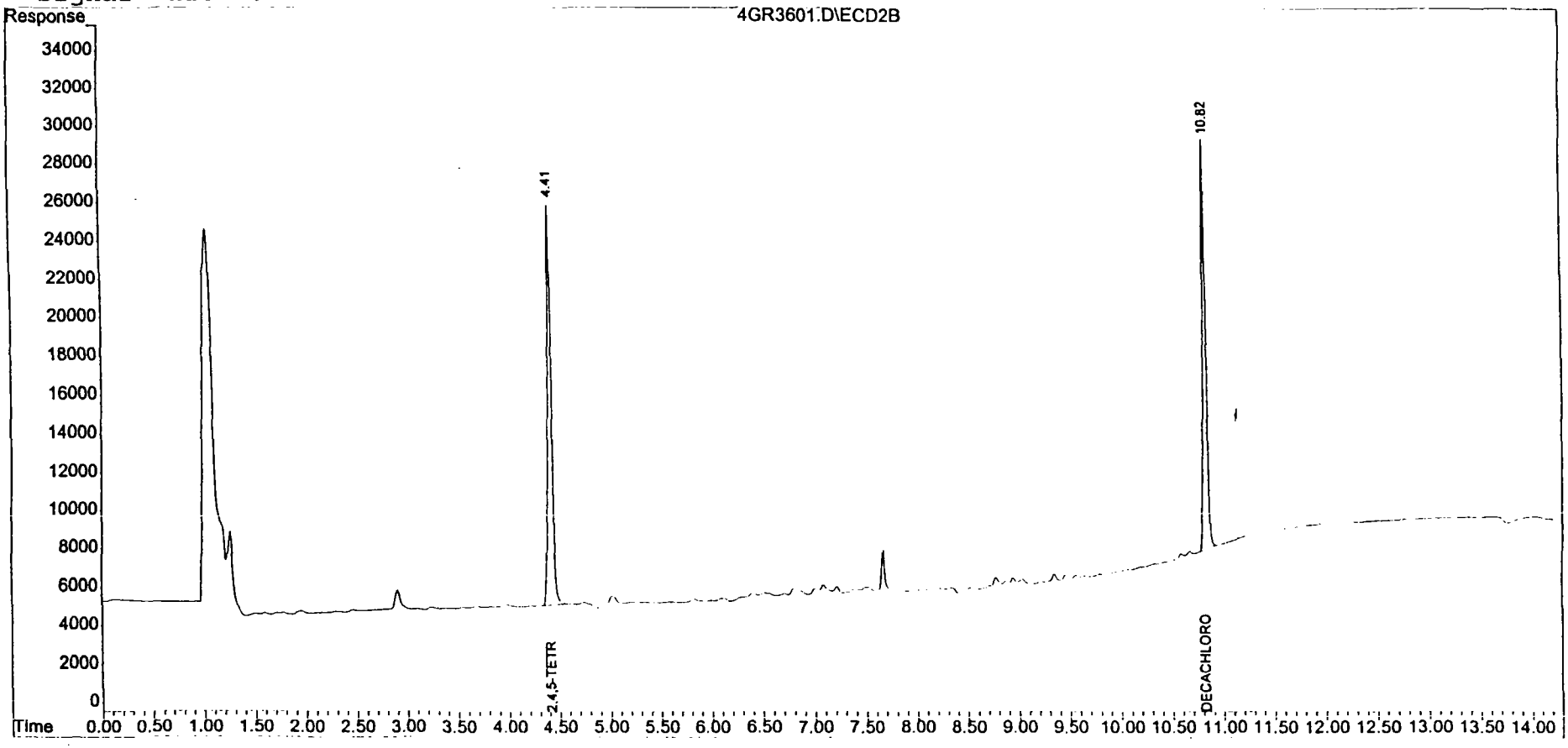
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3601.D Vial: 93
Acq On : 28 Apr 2000 23:59 Operator: ECL
Sample : L0004550-16 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:24 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



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Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3602.D Vial: 94
Acq On : 29 Apr 2000 00:18 Operator: ECL
Sample : L0004550-17 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:24 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.42	767531	19.083 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	95.41%
12) S DECACHLOROBIPHENYL	10.82	871487	20.674 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	103.37%
Target Compounds			
2) L1 PCB 1016-1	0.00	0	N.D. UG/L
3) L1 PCB 1016-2	0.00	0	N.D. UG/L
4) L1 PCB 1016-3	0.00	0	N.D. UG/L
5) L1 PCB 1016-4	0.00	0	N.D. UG/L
6) L1 PCB 1016-5	0.00	0	N.D. UG/L
Sum PCB 1016-1		0	N.D. UG/L
Average PCB 1016-1			0.000 UG/L
7) L2 PCB 1260-1	0.00	0	N.D. UG/L
8) L2 PCB 1260-2	0.00	0	N.D. UG/L
9) L2 PCB 1260-3	0.00	0	N.D. UG/L
10) L2 PCB 1260-4	0.00	0	N.D. UG/L
11) L2 PCB 1260-5	0.00	0	N.D. UG/L
Sum PCB 1260-1		0	N.D. UG/L
Average PCB 1260-1			0.000 UG/L

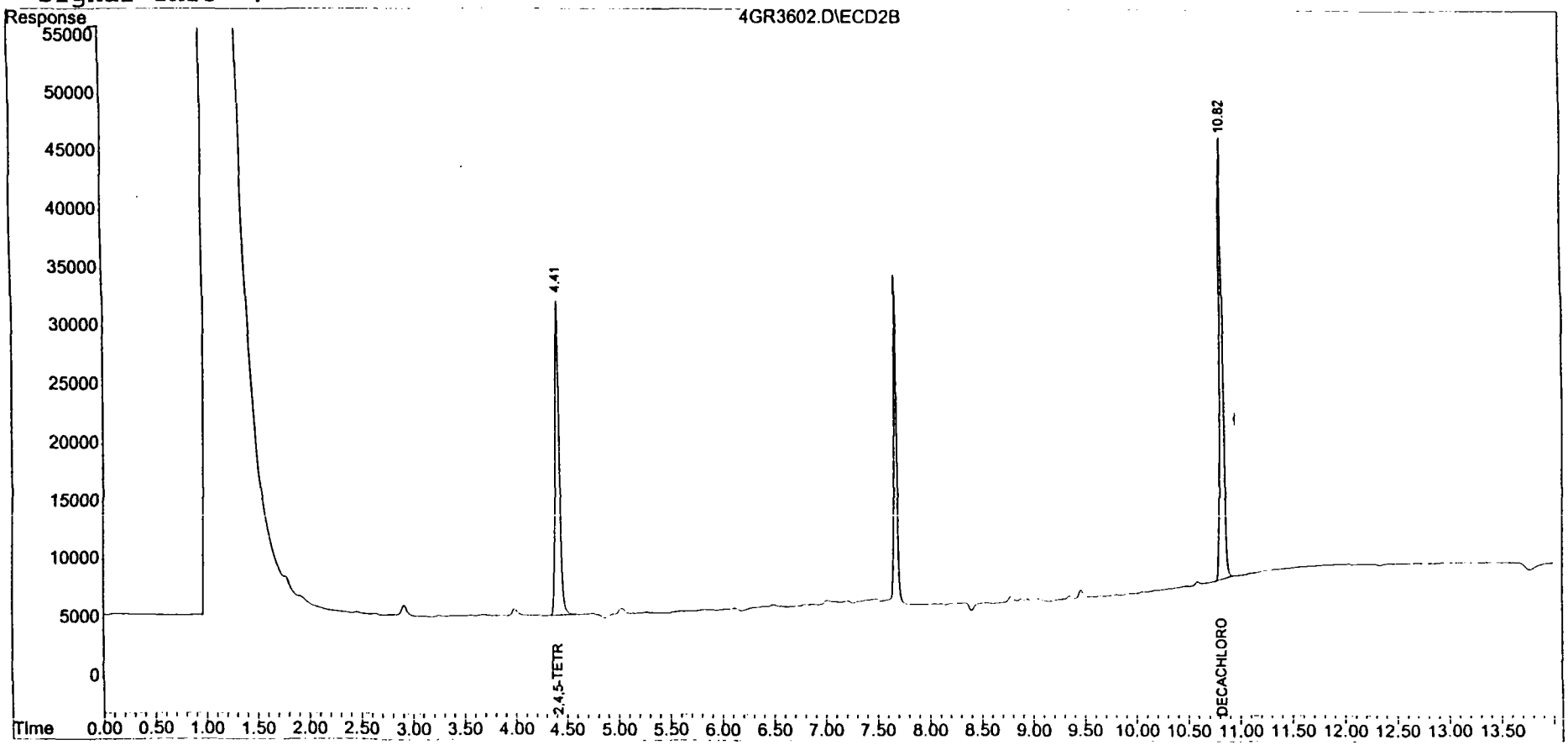
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3602.D Vial: 94
Acq On : 29 Apr 2000 00:18 Operator: ECL
Sample : L0004550-17 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:24 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3603.D Vial: 95
Acq On : 29 Apr 2000 00:36 Operator: ECL
Sample : L0004550-18 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:25 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.41	615854	15.312 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	76.56%
12) S DECACHLOROBIPHENYL	10.82	637263	15.117 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	75.59%
Target Compounds			
2) L1 PCB 1016-1	0.00	0	N.D. UG/L
3) L1 PCB 1016-2	0.00	0	N.D. UG/L
4) L1 PCB 1016-3	0.00	0	N.D. UG/L
5) L1 PCB 1016-4	0.00	0	N.D. UG/L
6) L1 PCB 1016-5	0.00	0	N.D. UG/L
Sum PCB 1016-1		0	N.D. UG/L
Average PCB 1016-1			0.000 UG/L
7) L2 PCB 1250-1	0.00	0	N.D. UG/L
8) L2 PCB 1250-2	0.00	0	N.D. UG/L
9) L2 PCB 1250-3	0.00	0	N.D. UG/L
10) L2 PCB 1250-4	0.00	0	N.D. UG/L
11) L2 PCB 1250-5	0.00	0	N.D. UG/L
Sum PCB 1250-1		0	N.D. UG/L
Average PCB 1250-1			0.000 UG/L

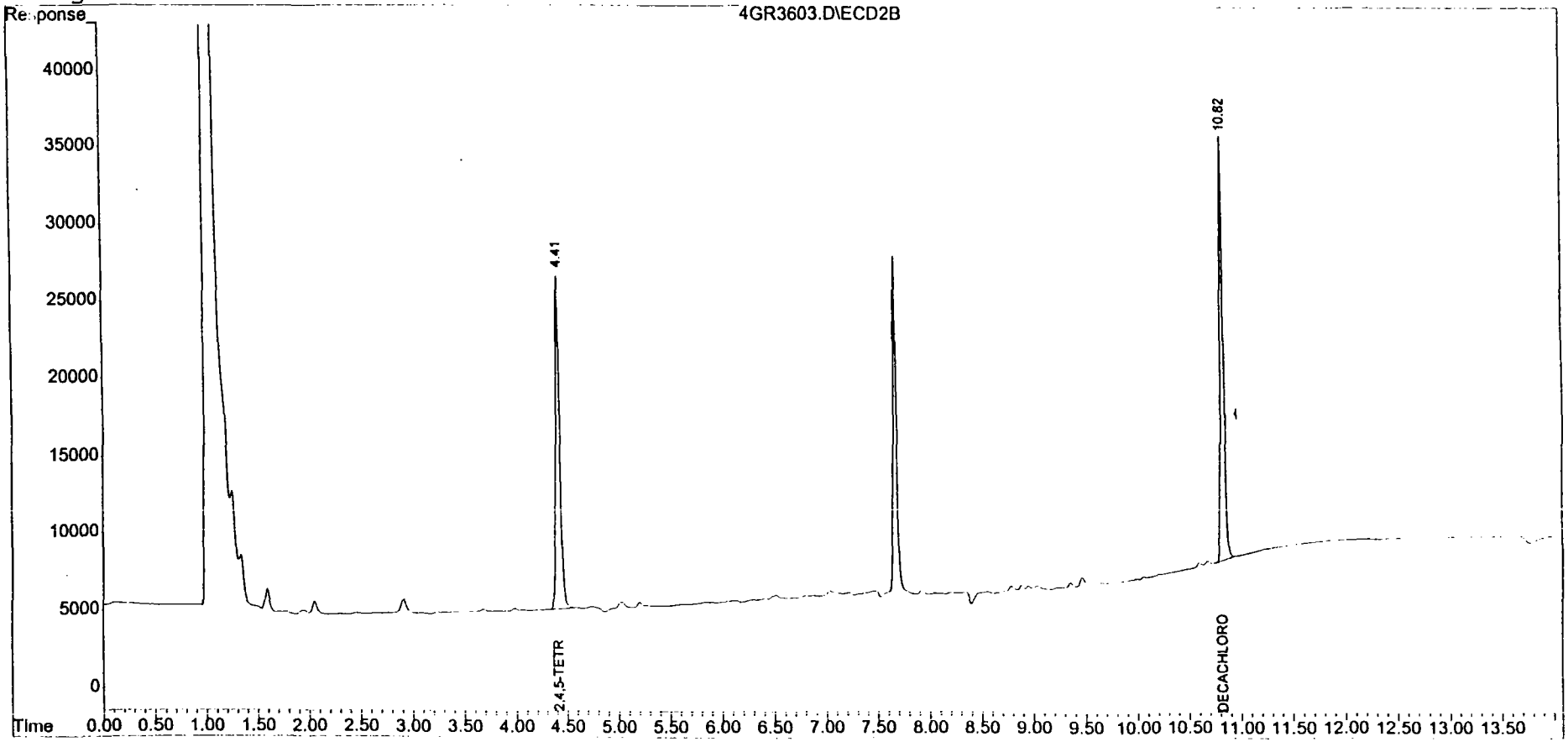
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3603.D Vial: 95
Acq On : 29 Apr 2000 00:36 Operator: ECL
Sample : L0004550-18 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:25 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



2.2.3.3 Standards Data

Response Factor Report HP 4

Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000

Calibration Files

6	=4GR3464.D	5	=4GR3463.D	4	=4GR3462.D
3	=4GR3461.D	2	=4GR3460.D	1	=4GR3459.D

		Compound	6	5	4	3	2	1	Avg		%RSD
1)	S	2,4,5-TETRACHLORO-M	3.801	4.066	4.099	4.163	3.973	4.031	4.022	E4	3.13
2)	L1	PCB 1016-1	0.634	0.727	0.812	0.902	0.962	1.033	0.845	E3	17.69
3)	L1	PCB 1016-2	1.195	1.368	1.464	1.606	1.826	2.020	1.580	E3	19.21
4)	L1	PCB 1016-3	2.556	2.860	3.129	3.425	3.611	3.952	3.256	E3	15.67
5)	L1	PCB 1016-4	1.078	1.213	1.318	1.413	1.481	1.602	1.351	E3	13.97
6)	L1	PCB 1016-5	0.754	0.817	0.867	0.936	0.975	1.044	0.899	E3	11.86
7)	L2	PCB 1260-1	1.485	1.674	1.857	2.001	2.186	2.431	1.939	E3	17.71
8)	L2	PCB 1260-2	1.678	1.824	1.979	2.166	2.230	2.416	2.049	E3	13.35
9)	L2	PCB 1260-3	2.145	2.305	2.499	2.738	2.804	3.032	2.587	E3	12.82
10)	L2	PCB 1260-4	2.761	2.961	3.226	3.571	3.725	4.046	3.382	E3	14.37
11)	L2	PCB 1260-5	3.566	3.810	4.075	4.381	4.293	4.459	4.097	E3	8.56
12)	S	DECACHLOROBIPHENYL	3.248	3.640	4.073	4.587	4.754	4.991	4.215	E4	16.14

(#) = Cut of Range

Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3459.D Vial: 51
Acq On : 25 Apr 2000 15:02 Operator: ECL
Sample : 1660 0.05 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:07 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

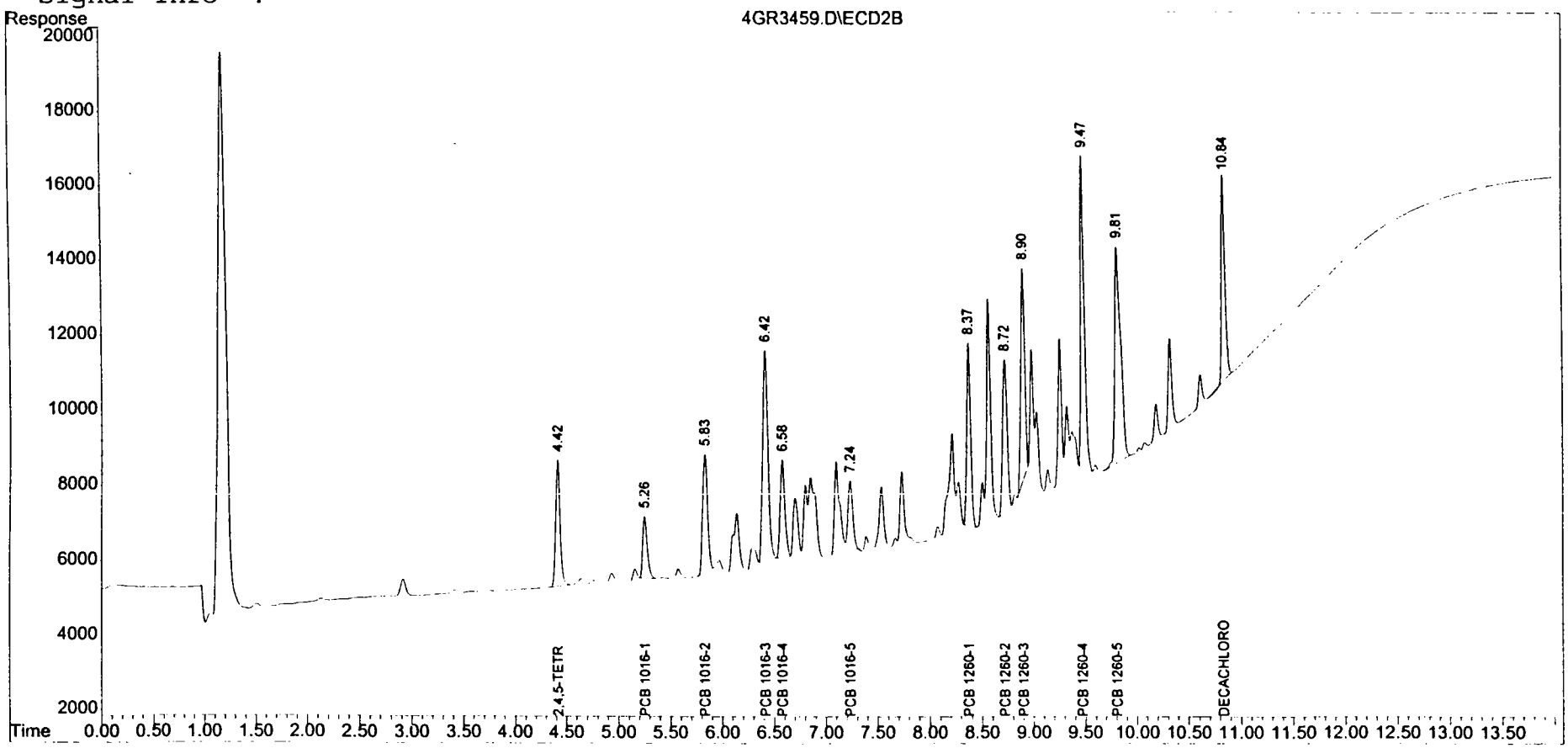
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.42	100764	2.505 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	12.53%#
12) S DECACHLOROBIPHENYL	10.84	124764	2.960 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	14.80%#
Target Compounds			
2) L1 PCB 1016-1	5.26	51663	61.141 UG/L
3) L1 PCB 1016-2	5.84	100982	63.916 UG/L
4) L1 PCB 1016-3	6.42	197619	60.702 UG/L
5) L1 PCB 1016-4	6.58	80122	59.304 UG/L
6) L1 PCB 1016-5	7.24	52207	58.080 UG/L
Sum PCB 1016-1		482593	303.144 UG/L
Average PCB 1016-1			60.629 UG/L
7) L2 PCB 1260-1	8.37	121551	62.691 UG/L
8) L2 PCB 1260-2	8.72	120777	58.955 UG/L
9) L2 PCB 1260-3	8.90	151584	58.592 UG/L
10) L2 PCB 1260-4	9.48	202315	59.826 UG/L
11) L2 PCB 1260-5	9.81	222951	54.413 UG/L
Sum PCB 1260-1		819178	294.477 UG/L
Average PCB 1260-1			58.895 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3459.D Vial: 51
Acq On : 25 Apr 2000 15:02 Operator: ECL
Sample : 1660 0.05 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:07 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3460.D Vial: 52
Acq On : 25 Apr 2000 15:21 Operator: ECL
Sample : 1660 0.1 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:07 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

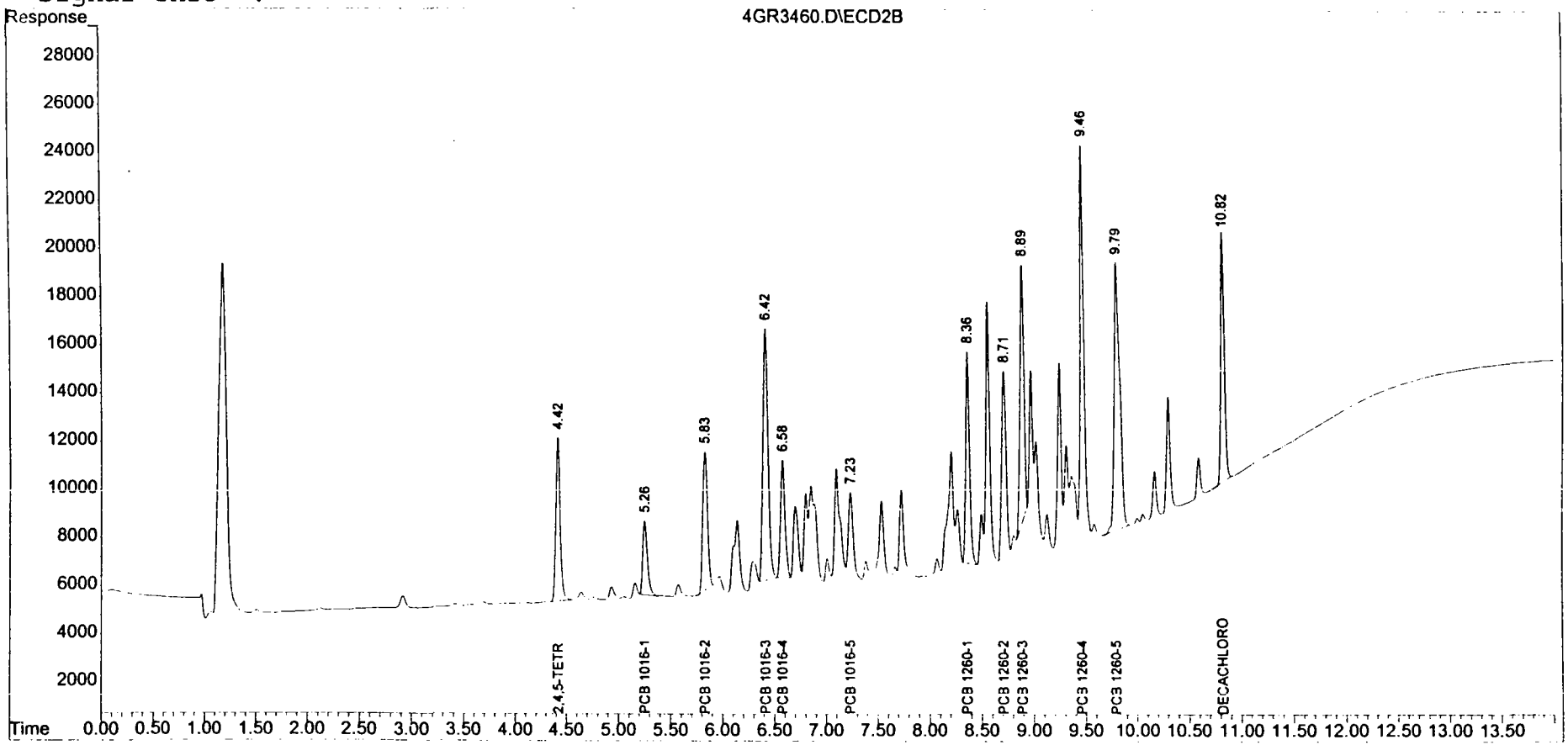
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.42	198634	4.939 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	24.70%
12) S DECACHLOROBIPHENYL	10.82	237691	5.639 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	28.20%
Target Compounds			
2) L1 PCB 1016-1	5.26	96164	113.806 UG/L
3) L1 PCB 1016-2	5.84	182618	115.587 UG/L
4) L1 PCB 1016-3	6.42	361077	110.911 UG/L
5) L1 PCB 1016-4	6.58	148061	109.592 UG/L
6) L1 PCB 1016-5	7.24	97492	108.461 UG/L
Sum PCB 1016-1		885411	558.356 UG/L
Average PCB 1016-1			111.671 UG/L
7) L2 PCB 1260-1	8.37	218552	112.719 UG/L
8) L2 PCB 1260-2	8.71	222952	108.830 UG/L
9) L2 PCB 1260-3	8.89	280428	108.395 UG/L
10) L2 PCB 1260-4	9.46	372453	110.136 UG/L
11) L2 PCB 1260-5	9.80	429304	104.776 UG/L
Sum PCB 1260-1		1523689	544.856 UG/L
Average PCB 1260-1			108.971 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3460.D Vial: 52
Acq On : 25 Apr 2000 15:21 Operator: ECL
Sample : 1660 0.1 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:07 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3461.D Vial: 53
Acq On : 25 Apr 2000 15:39 Operator: ECL
Sample : 1660 0.25 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:07 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

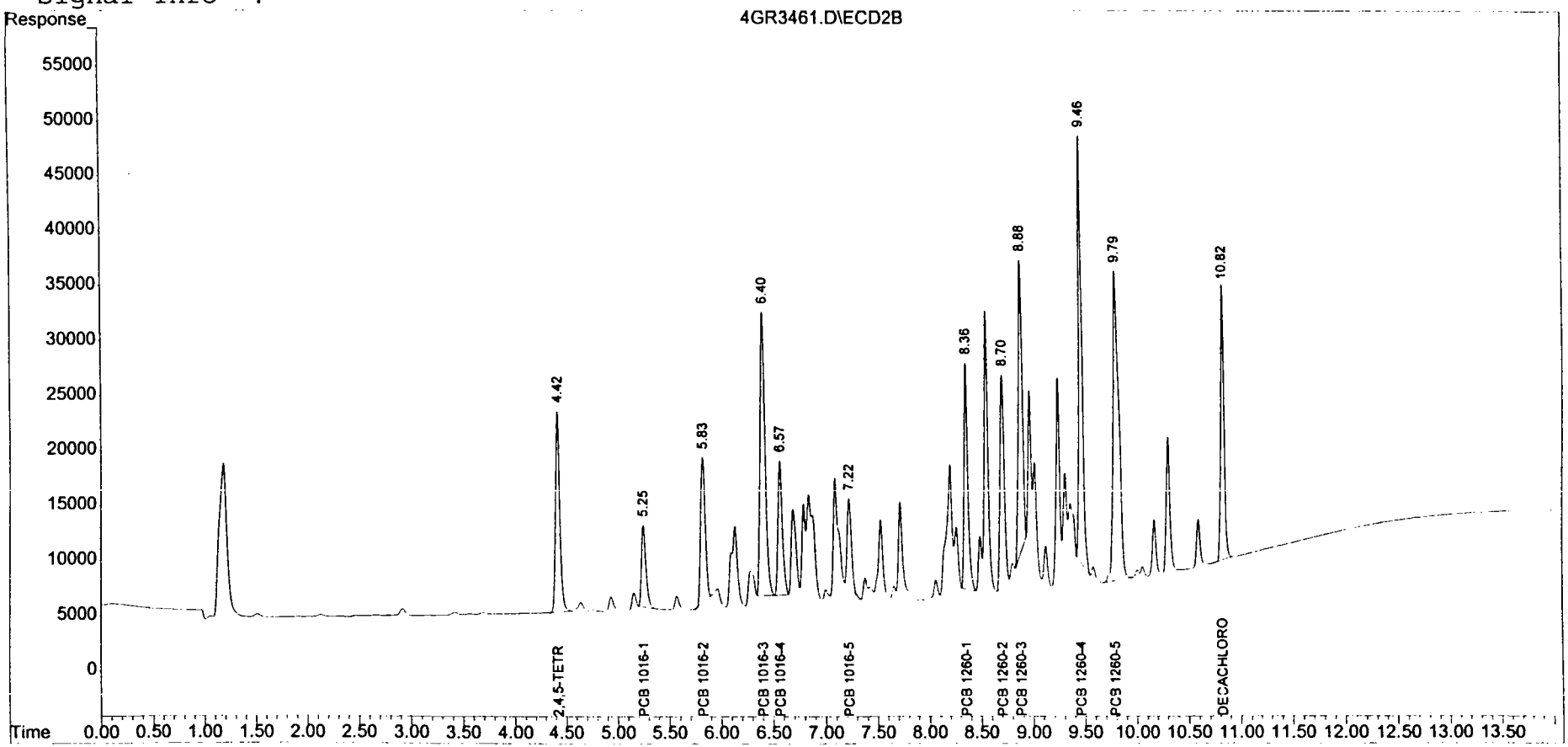
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.42	520333	12.937 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	64.68%
12) S DECACHLOROBIPHENYL	10.83	573389	13.602 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	68.01%
Target Compounds			
2) L1 PCB 1016-1	5.25	225536	266.912 UG/L
3) L1 PCB 1016-2	5.83	401388	254.057 UG/L
4) L1 PCB 1016-3	6.40	856155	262.984 UG/L
5) L1 PCB 1016-4	6.57	353287	261.495 UG/L
6) L1 PCB 1016-5	7.22	233897	260.214 UG/L
Sum PCB 1016-1		2070263	1305.661 UG/L
Average PCB 1016-1			261.132 UG/L
7) L2 PCB 1260-1	8.36	500218	257.990 UG/L
8) L2 PCB 1260-2	8.70	541560	264.354 UG/L
9) L2 PCB 1260-3	8.88	684425	264.552 UG/L
10) L2 PCB 1260-4	9.46	892784	264.001 UG/L
11) L2 PCB 1260-5	9.79	1095199	267.294 UG/L
Sum PCB 1260-1		3714186	1318.190 UG/L
Average PCB 1260-1			263.638 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3461.D Vial: 53
Acq On : 25 Apr 2000 15:39 Operator: ECL
Sample : 1660 0.25 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:07 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3462.D Vial: 54
Acq On : 25 Apr 2000 15:58 Operator: ECL
Sample : 1660 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:07 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

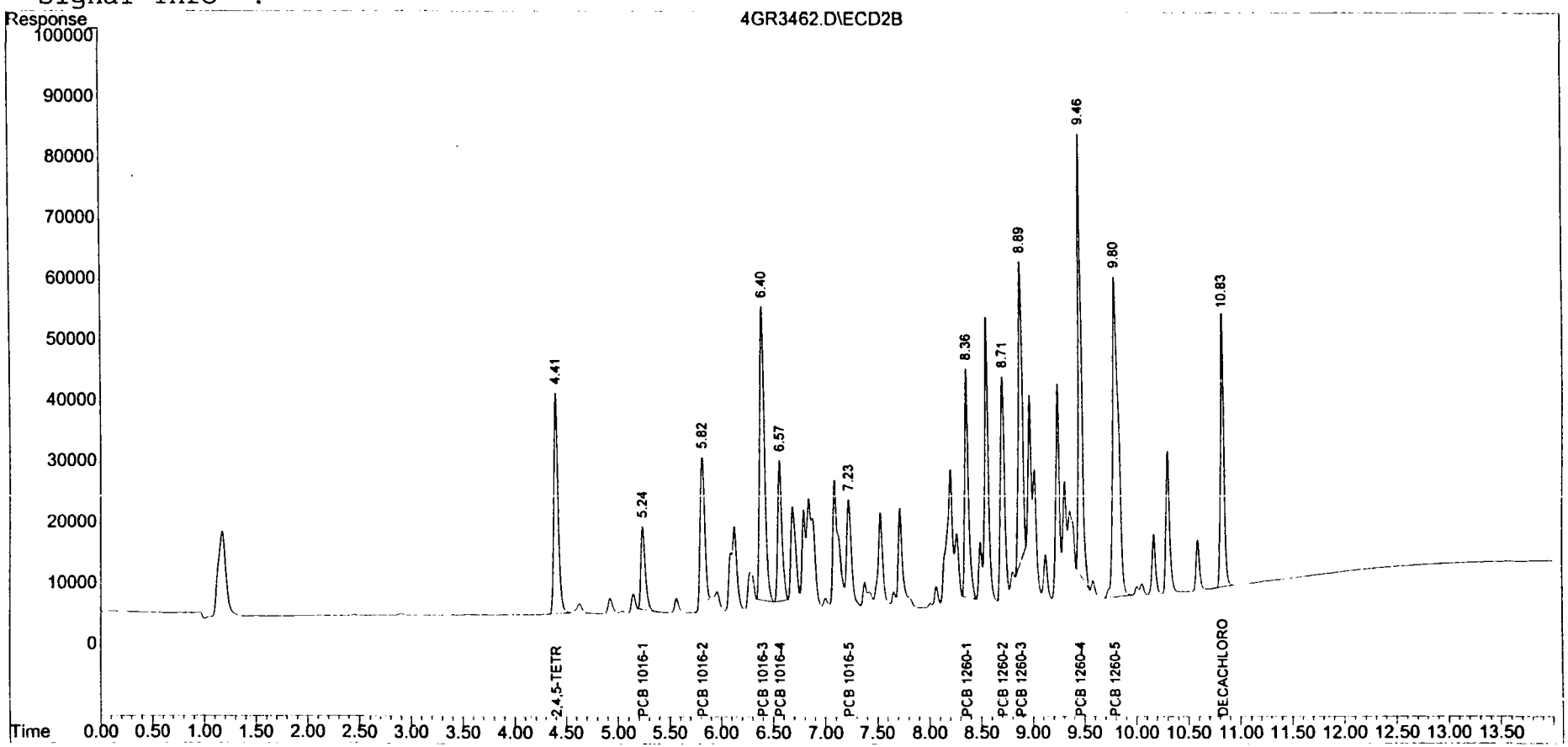
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.41	1024814	25.480 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	127.40%
12) S DECACHLOROBIPHENYL	10.83	1018273	24.156 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	120.78%
Target Compounds			
2) L1 PCB 1016-1	5.24	405753	480.191 UG/L
3) L1 PCB 1016-2	5.82	732200	463.443 UG/L
4) L1 PCB 1016-3	6.40	1564587	480.591 UG/L
5) L1 PCB 1016-4	6.57	659099	487.850 UG/L
6) L1 PCB 1016-5	7.23	433740	482.542 UG/L
Sum PCB 1016-1		3795379	2394.617 UG/L
Average PCB 1016-1			478.923 UG/L
7) L2 PCB 1260-1	8.36	928546	478.902 UG/L
8) L2 PCB 1260-2	8.71	989338	482.929 UG/L
9) L2 PCB 1260-3	8.89	1249329	482.905 UG/L
10) L2 PCB 1260-4	9.46	1613141	477.014 UG/L
11) L2 PCB 1260-5	9.80	2037447	497.258 UG/L
Sum PCB 1260-1		6817801	2419.009 UG/L
Average PCB 1260-1			483.802 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3462.D Vial: 54
Acq On : 25 Apr 2000 15:58 Operator: ECL
Sample : 1660 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:07 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3463.D Vial: 55
Acq On : 25 Apr 2000 16:16 Operator: ECL
Sample : 1660 1.0 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:07 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

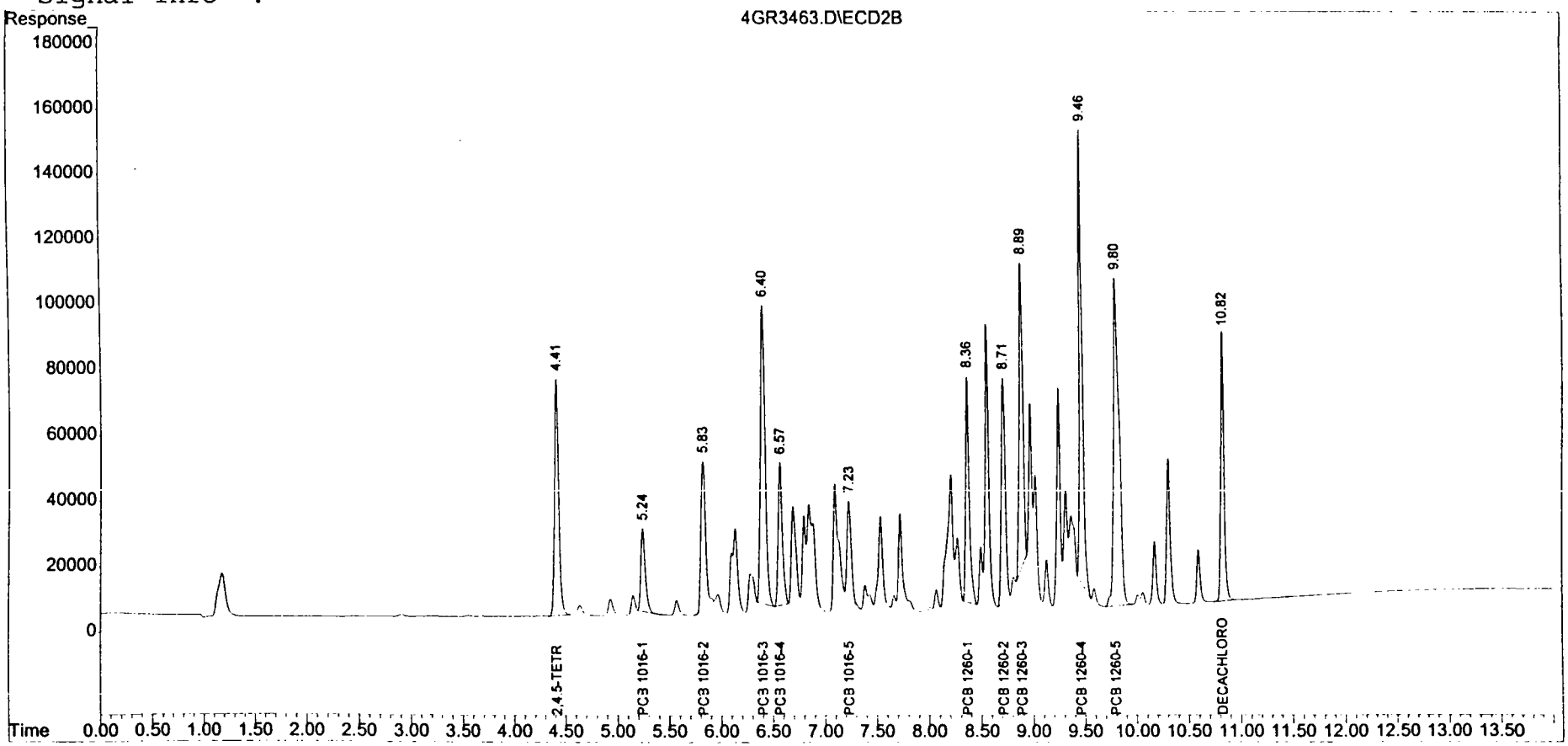
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.41	2033053	50.548 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	252.74%#
12) S DECACHLOROBIPHENYL	10.83	1819791	43.170 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	215.85%#
Target Compounds			
2) L1 PCB 1016-1	5.25	727012	860.387 UG/L
3) L1 PCB 1016-2	5.83	1368487	866.179 UG/L
4) L1 PCB 1016-3	6.40	2859880	878.464 UG/L
5) L1 PCB 1016-4	6.57	1213332	898.081 UG/L
6) L1 PCB 1016-5	7.23	816689	908.578 UG/L
Sum PCB 1016-1		6985400	4411.689 UG/L
Average PCB 1016-1			882.338 UG/L
7) L2 PCB 1260-1	8.36	1673611	863.173 UG/L
8) L2 PCB 1260-2	8.71	1823568	890.145 UG/L
9) L2 PCB 1260-3	8.89	2304898	890.917 UG/L
10) L2 PCB 1260-4	9.47	2960916	875.558 UG/L
11) L2 PCB 1260-5	9.80	3810056	929.880 UG/L
Sum PCB 1260-1		12573048	4449.673 UG/L
Average PCB 1260-1			889.935 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3463.D Vial: 55
Acq On : 25 Apr 2000 16:16 Operator: ECL
Sample : 1660 1.0 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:07 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3464.D Vial: 56
Acq On : 25 Apr 2000 16:35 Operator: ECL
Sample : 1660 2.0 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:07 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

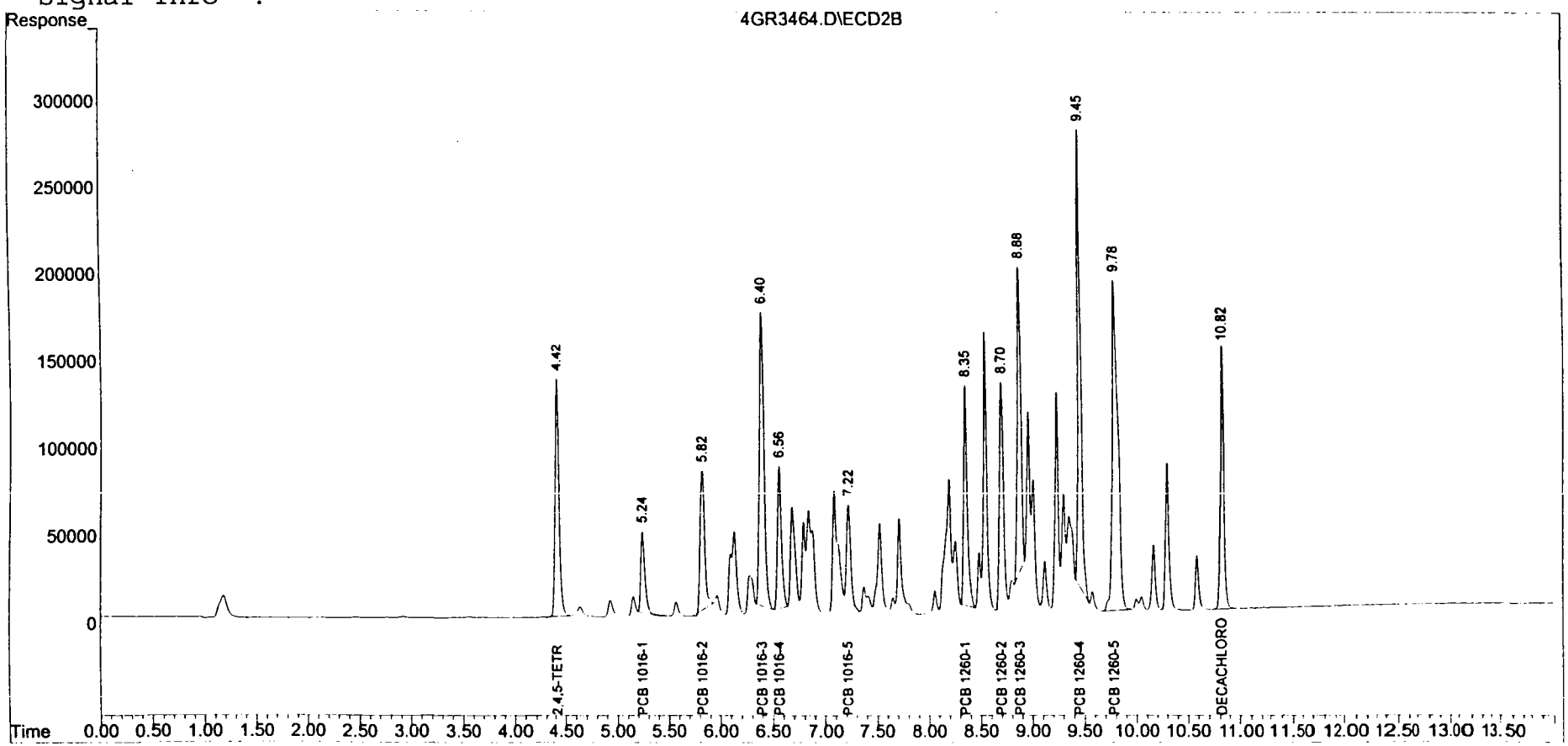
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.42	3800715	94.498 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	472.49%#
12) S DECACHLOROBIPHENYL	10.82	3248446	77.061 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	385.31%#
Target Compounds			
2) L1 PCB 1016-1	5.24	1268661	1501.406 UG/L
3) L1 PCB 1016-2	5.82	2390450	1513.026 UG/L
4) L1 PCB 1016-3	6.40	5112913	1570.523 UG/L
5) L1 PCB 1016-4	6.56	2156871	1596.468 UG/L
6) L1 PCB 1016-5	7.22	1508779	1678.537 UG/L
Sum PCB 1016-1		12437673	7859.960 UG/L
Average PCB 1016-1			1571.992 UG/L
7) L2 PCB 1260-1	8.35	2970613	1532.109 UG/L
8) L2 PCB 1260-2	8.70	3356372	1638.357 UG/L
9) L2 PCB 1260-3	8.88	4290881	1658.562 UG/L
10) L2 PCB 1260-4	9.45	5522639	1633.072 UG/L
11) L2 PCB 1260-5	9.79	7132732	1740.810 UG/L
Sum PCB 1260-1		23273236	8202.912 UG/L
Average PCB 1260-1			1640.582 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3464.D Vial: 56
Acq On : 25 Apr 2000 16:35 Operator: ECL
Sample : 1660 2.0 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:07 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3465.D Vial: 57
Acq On : 25 Apr 2000 16:53 Operator: ECL
Sample : 1660 ALT 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 10% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	2,4,5-TETRACHLORO-M-XYLENE	25.000	24.629	1.5	97	0.00
2	L1	PCB 1016-1	500.000	468.488	6.3	98	0.00
3	L1	PCB 1016-2	500.000	459.012	8.2	99	0.00
4	L1	PCB 1016-3	500.000	469.596	6.1	98	0.00
5	L1	PCB 1016-4	500.000	476.280	4.7	98	0.00
6	L1	PCB 1016-5	500.000	474.303	5.1	98	0.00
7	L2	PCB 1260-1	500.000	467.678	6.5	98	0.01
8	L2	PCB 1260-2	500.000	471.180	5.8	98	0.01
9	L2	PCB 1260-3	500.000	468.172	6.4	97	0.01
10	L2	PCB 1260-4	500.000	465.956	6.8	98	0.01
11	L2	PCB 1260-5	500.000	486.321	2.7	98	0.01
12	S	DECACHLOROBIPHENYL	25.000	25.880	-3.5	107	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3465.D Vial: 57
Acq On : 25 Apr 2000 16:53 Operator: ECL
Sample : 1660 ALT 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:08 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

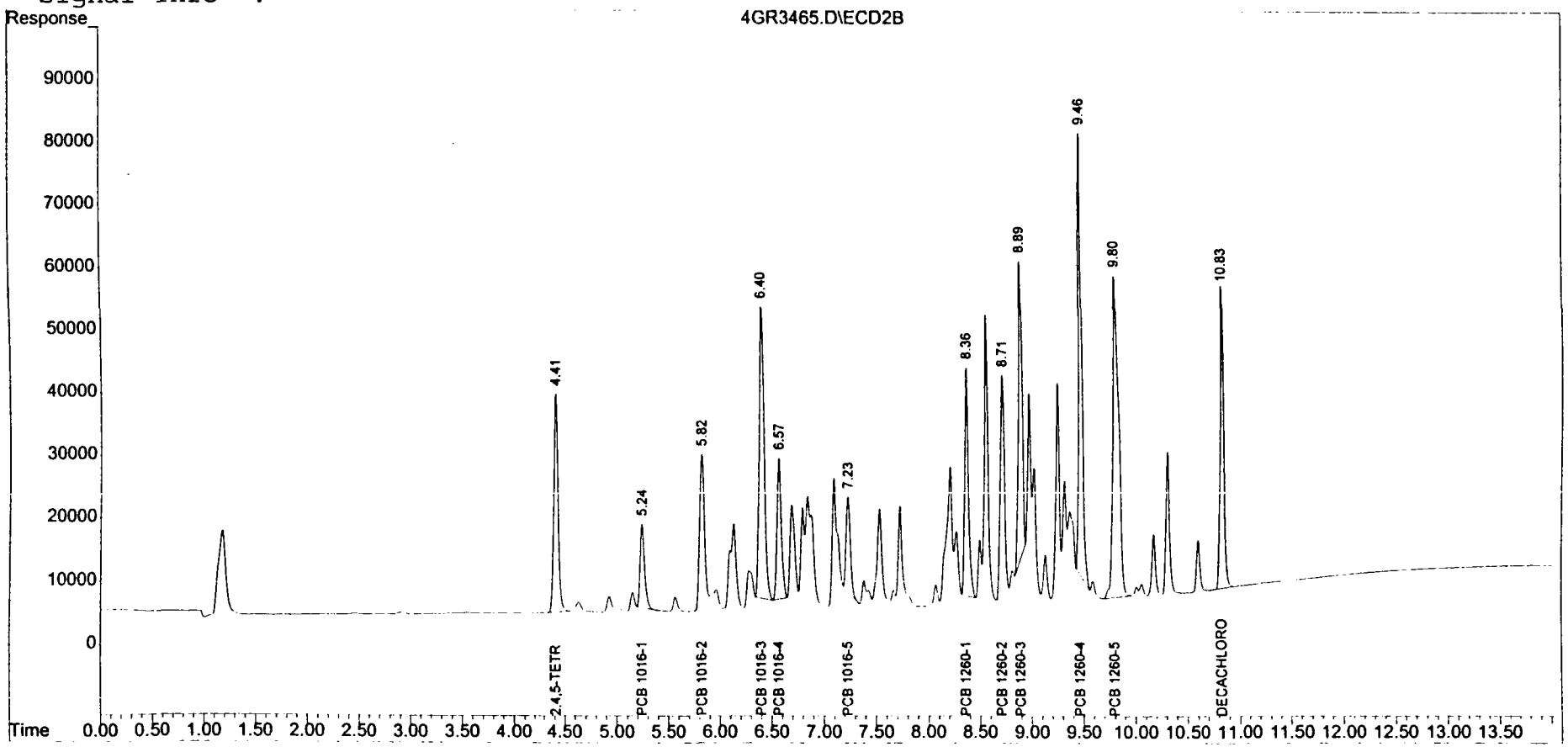
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.41	990584	24.629 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	123.15%
12) S DECACHLOROBIPHENYL	10.83	1090937	25.880 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	129.40%
Target Compounds			
2) L1 PCB 1016-1	5.24	395864	468.488 UG/L
3) L1 PCB 1016-2	5.82	725200	459.012 UG/L
4) L1 PCB 1016-3	6.40	1528792	469.596 UG/L
5) L1 PCB 1016-4	6.57	643467	476.280 UG/L
6) L1 PCB 1016-5	7.23	426334	474.303 UG/L
Sum PCB 1016-1		3719657	2347.679 UG/L
Average PCB 1016-1			469.536 UG/L
7) L2 PCB 1260-1	8.36	906783	467.678 UG/L
8) L2 PCB 1260-2	8.71	965268	471.180 UG/L
9) L2 PCB 1260-3	8.89	1211213	468.172 UG/L
10) L2 PCB 1260-4	9.47	1575746	465.956 UG/L
11) L2 PCB 1260-5	9.80	1992632	486.321 UG/L
Sum PCB 1260-1		6651642	2359.307 UG/L
Average PCB 1260-1			471.861 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3465.D Vial: 57
Acq On : 25 Apr 2000 16:53 Operator: ECL
Sample : 1660 ALT 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:08 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Response Factor Report HP 4

Method : C:\HPCHEM\2\METHODS\1254R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:15:24 2000

Calibration Files
6 =4GR3471.D 5 =4GR3470.D 4 =4GR3469.D
3 =4GR3468.D 2 =4GR3467.D 1 =4GR3466.D

		Compound	6	5	4	3	2	1	Avg		%RSD
1)	S	2,4,5-TETRACHLORO-M	4.045	4.410	4.088	4.175	4.078	3.969	4.127	E4	3.72
2)	L1	PCB 1254-1	0.986	1.176	1.196	1.351	1.502	1.536	1.291	E3	16.36
3)	L1	PCB 1254-2	1.551	1.801	1.798	1.955	2.130	2.287	1.920	E3	13.68
4)	L1	PCB 1254-3	1.689	1.936	1.927	2.128	2.655	2.687	2.170	E3	18.98
5)	L1	PCB 1254-4	1.580	1.776	1.727	1.836	1.963	2.173	1.842	E3	11.13
6)	L1	PCB 1254-5	1.934	2.191	2.165	2.346	2.591	2.601	2.305	E3	11.33
7)	S	DECACHLOROBIPHENYL	3.480	4.090	4.284	4.818	5.406	5.480	4.593	E4	17.10

(#) = Out of Range

Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3466.D Vial: 58
Acq On : 25 Apr 2000 17:11 Operator: ECL
Sample : 1254 0.05 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:16 2000 Quant Results File: 1254R.RES

Quant Method : C:\HPCHEM\2\METHODS\1254R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:15:24 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

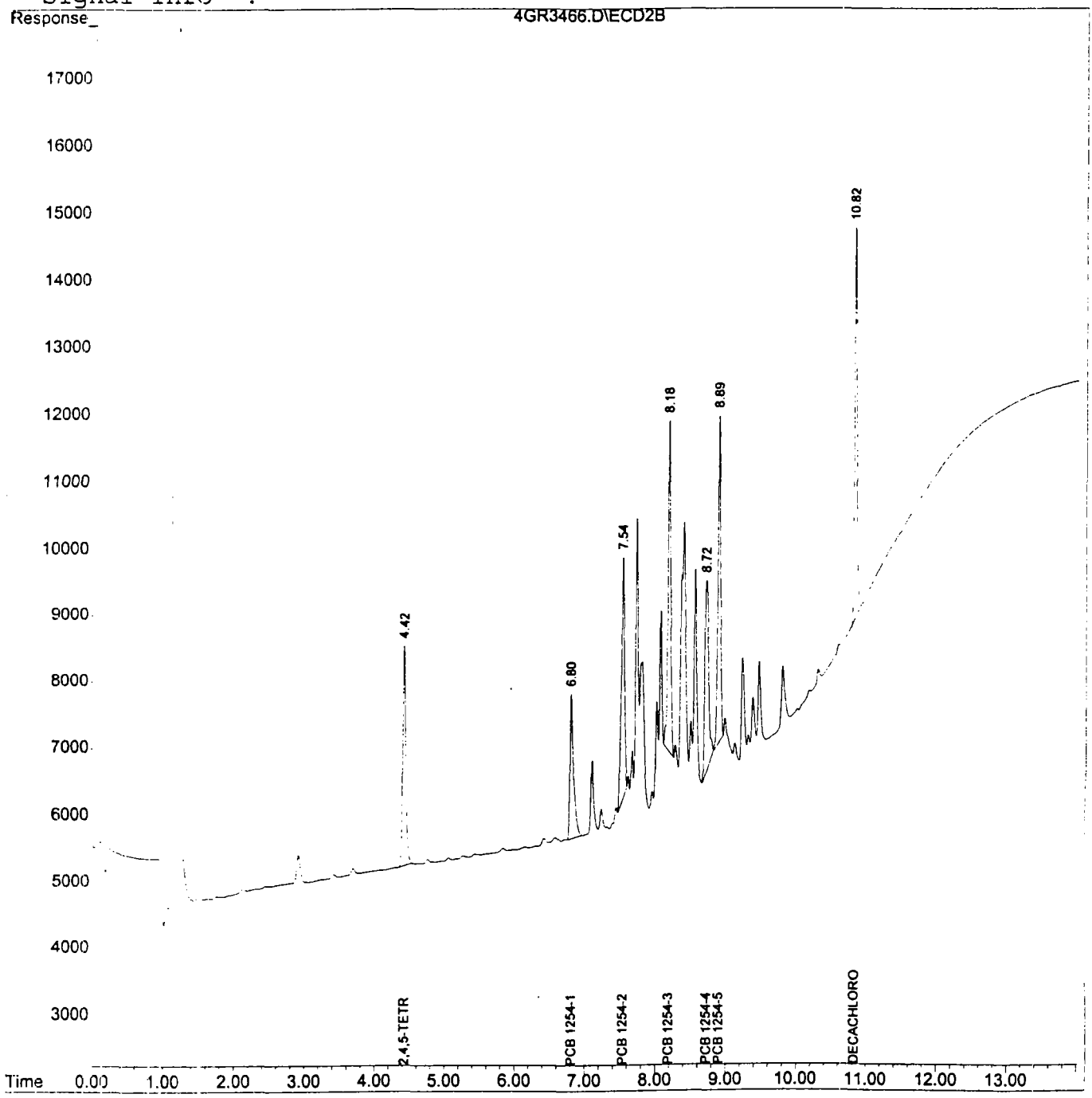
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.42	99215	2.404 UG/L
Spiked Amount 20.000 Range 30 - 132		Recovery =	12.02%#
7) S DECACHLOROBIPHENYL	10.82	136999	2.983 UG/L
Spiked Amount 20.000 Range 36 - 144		Recovery =	14.92%#
Target Compounds			
2) L1 PCB 1254-1	6.80	76787	59.462 UG/L
3) L1 PCB 1254-2	7.54	114363	59.549 UG/L
4) L1 PCB 1254-3	8.19	134342	61.901 UG/L
5) L1 PCB 1254-4	8.72	108627	58.957 UG/L
6) L1 PCB 1254-5	8.90	130033	56.421 UG/L
Sum PCB 1254-1		564154	296.290 UG/L
Average PCB 1254-1			59.258 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3466.D Vial: 58
Acq On : 25 Apr 2000 17:11 Operator: ECL
Sample : 1254 0.05 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:16 2000 Quant Results File: 1254R.RES

Quant Method : C:\HPCHEM\2\METHODS\1254R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:15:24 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3467.D Vial: 59
Acq On : 25 Apr 2000 17:30 Operator: ECL
Sample : 1254 0.1 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:17 2000 Quant Results File: 1254R.RES

Quant Method : C:\HPCHEM\2\METHODS\1254R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:15:24 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

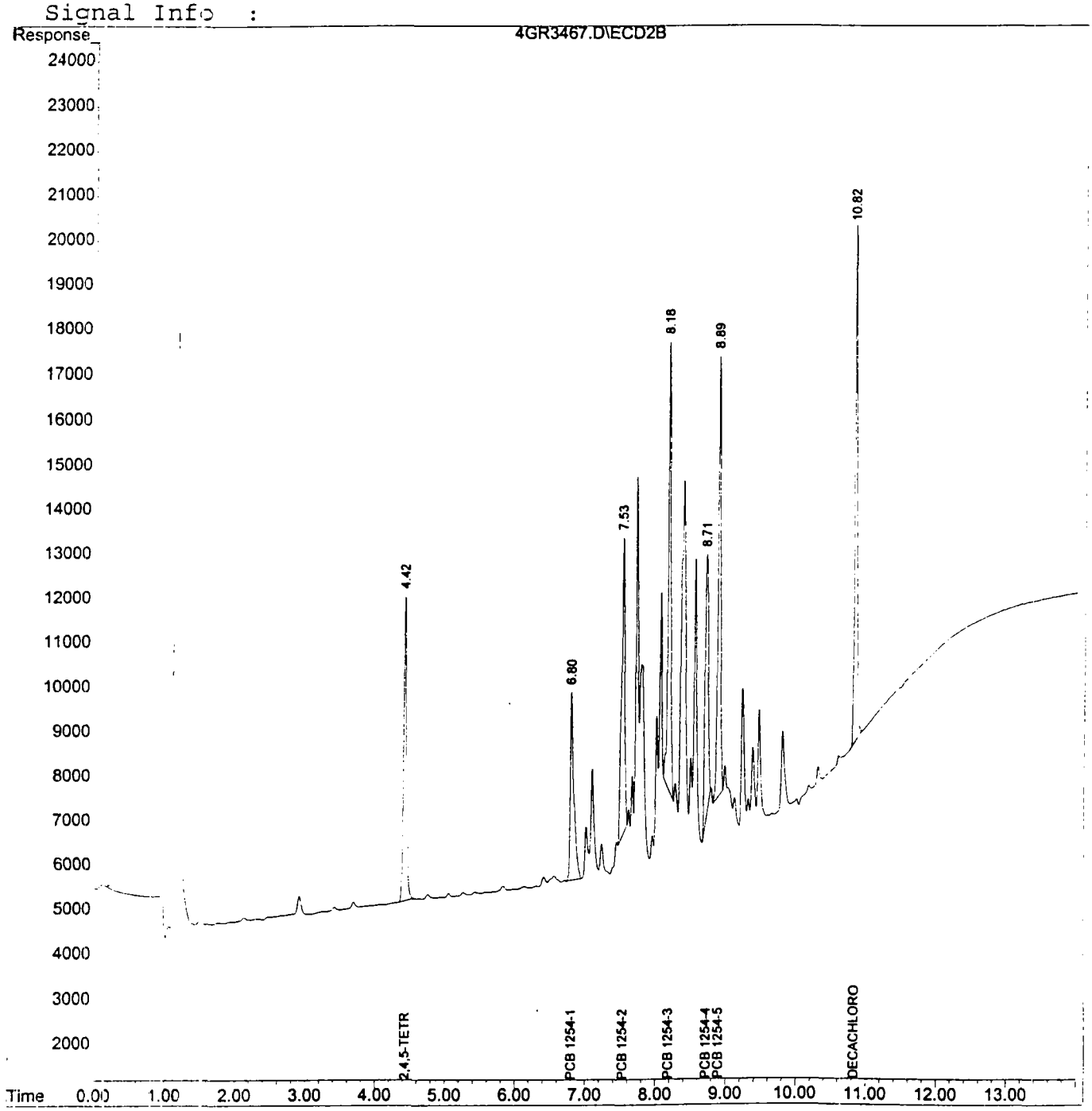
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.42	203906	4.940 UG/L
Spiked Amount 20.000 Range 30 - 132		Recovery =	24.70%#
7) S DECACHLOROBIPHENYL	10.83	270304	5.885 UG/L
Spiked Amount 20.000 Range 36 - 144		Recovery =	29.43%#
Target Compounds			
2) L1 PCB 1254-1	6.80	150249	116.349 UG/L
3) L1 PCB 1254-2	7.53	212980	110.898 UG/L
4) L1 PCB 1254-3	8.18	265472	122.322 UG/L
5) L1 PCB 1254-4	8.72	196310	106.547 UG/L
6) L1 PCB 1254-5	8.89	259095	112.420 UG/L
Sum PCB 1254-1		1084105	568.535 UG/L
Average PCB 1254-1			113.707 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3467.D Vial: 59
Acq On : 25 Apr 2000 17:30 Operator: ECL
Sample : 1254 0.1 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:17 2000 Quant Results File: 1254R.RES

Quant Method : C:\HPCHEM\2\METHODS\1254R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:15:24 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3468.D Vial: 60
Acq On : 25 Apr 2000 17:48 Operator: ECL
Sample : 1254 0.25 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:17 2000 Quant Results File: 1254R.RES

Quant Method : C:\HPCHEM\2\METHODS\1254R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:15:24 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

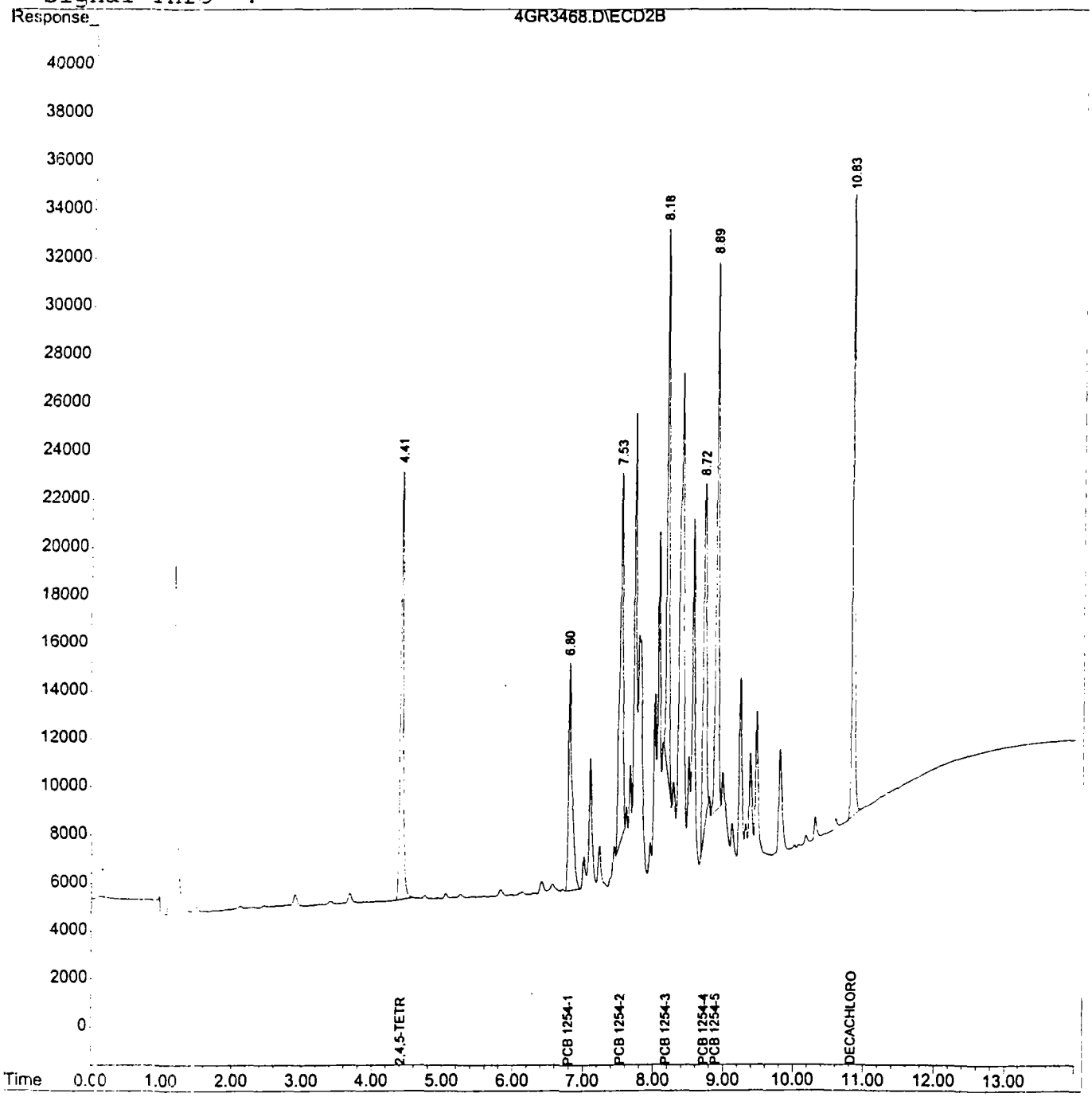
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.42	521903	12.645 UG/L
Spiked Amount 20.000 Range 30 - 132		Recovery =	63.22%
7) S DECACHLOROBIPHENYL	10.83	602302	13.113 UG/L
Spiked Amount 20.000 Range 36 - 144		Recovery =	65.56%
Target Compounds			
2) L1 PCB 1254-1	6.80	337856	261.627 UG/L
3) L1 PCB 1254-2	7.54	488798	254.517 UG/L
4) L1 PCB 1254-3	8.18	531965	245.114 UG/L
5) L1 PCB 1254-4	8.72	459030	249.138 UG/L
6) L1 PCB 1254-5	8.90	586589	254.517 UG/L
Sum PCB 1254-1		2404238	1264.912 UG/L
Average PCB 1254-1			252.982 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3468.D Vial: 60
Acq On : 25 Apr 2000 17:48 Operator: ECL
Sample : 1254 0.25 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:17 2000 Quant Results File: 1254R.RES

Quant Method : C:\HPCHEM\2\METHODS\1254R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:15:24 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3469.D Vial: 61
Acq On : 25 Apr 2000 18:07 Operator: ECL
Sample : 1254 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:17 2000 Quant Results File: 1254R.RES

Quant Method : C:\HPCHEM\2\METHODS\1254R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:15:24 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

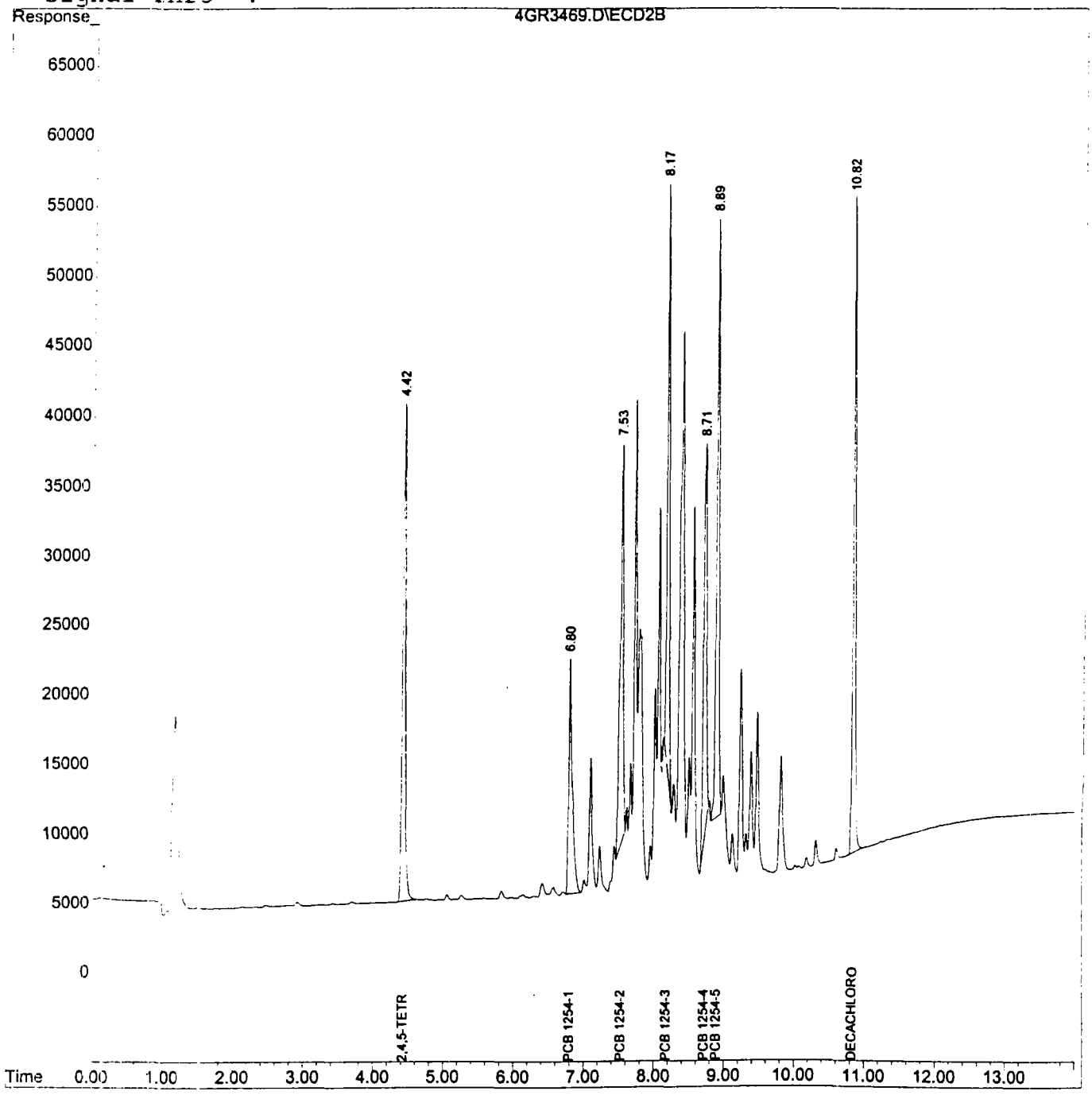
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.42	1021909	24.760 UG/L
Spiked Amount 20.000 Range 30 - 132		Recovery =	123.80%
7) S DECACHLOROBIPHENYL	10.83	1070992	23.317 UG/L
Spiked Amount 20.000 Range 36 - 144		Recovery =	116.59%
Target Compounds			
2) L1 PCB 1254-1	6.80	597911	463.006 UG/L
3) L1 PCB 1254-2	7.53	899244	468.235 UG/L
4) L1 PCB 1254-3	8.18	963312	443.866 UG/L
5) L1 PCB 1254-4	8.71	863467	468.645 UG/L
6) L1 PCB 1254-5	8.89	1082483	469.683 UG/L
Sum PCB 1254-1		4406416	2313.434 UG/L
Average PCB 1254-1			462.687 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3469.D Vial: 61
Acq On : 25 Apr 2000 18:07 Operator: ECL
Sample : 1254 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:17 2000 Quant Results File: 1254R.RES

Quant Method : C:\HPCHEM\2\METHODS\1254R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:15:24 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3470.D Vial: 62
Acq On : 25 Apr 2000 18:25 Operator: ECL
Sample : 1254 1.0 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:17 2000 Quant Results File: 1254R.RES

Quant Method : C:\HPCHEM\2\METHODS\1254R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:15:24 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

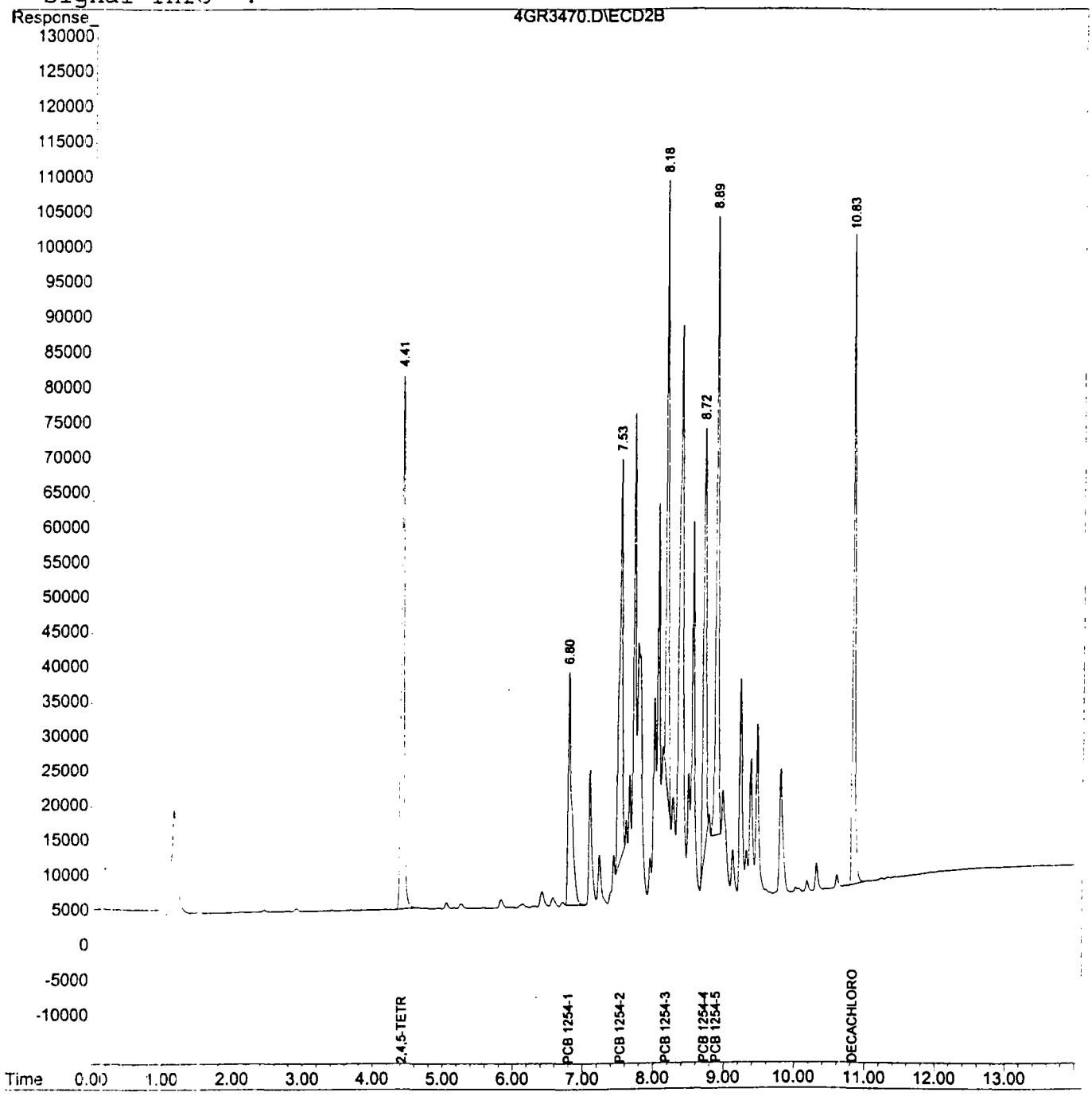
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.41	2204794	53.420 UG/L
Spiked Amount 20.000 Range 30 - 132		Recovery =	267.10%#
7) S DECACHLOROBIPHENYL	10.83	2045153	44.526 UG/L
Spiked Amount 20.000 Range 36 - 144		Recovery =	222.63%#
Target Compounds			
2) L1 PCB 1254-1	6.80	1176344	910.929 UG/L
3) L1 PCB 1254-2	7.53	1801212	937.888 UG/L
4) L1 PCB 1254-3	8.18	1936366	892.221 UG/L
5) L1 PCB 1254-4	8.72	1776427	964.152 UG/L
6) L1 PCB 1254-5	8.89	2191306	950.794 UG/L
Sum PCB 1254-1		8881656	4655.985 UG/L
Average PCB 1254-1			931.197 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3470.D Vial: 62
Acq On : 25 Apr 2000 18:25 Operator: ECL
Sample : 1254 1.0 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:17 2000 Quant Results File: 1254R.RES

Quant Method : C:\HPCHEM\2\METHODS\1254R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:15:24 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

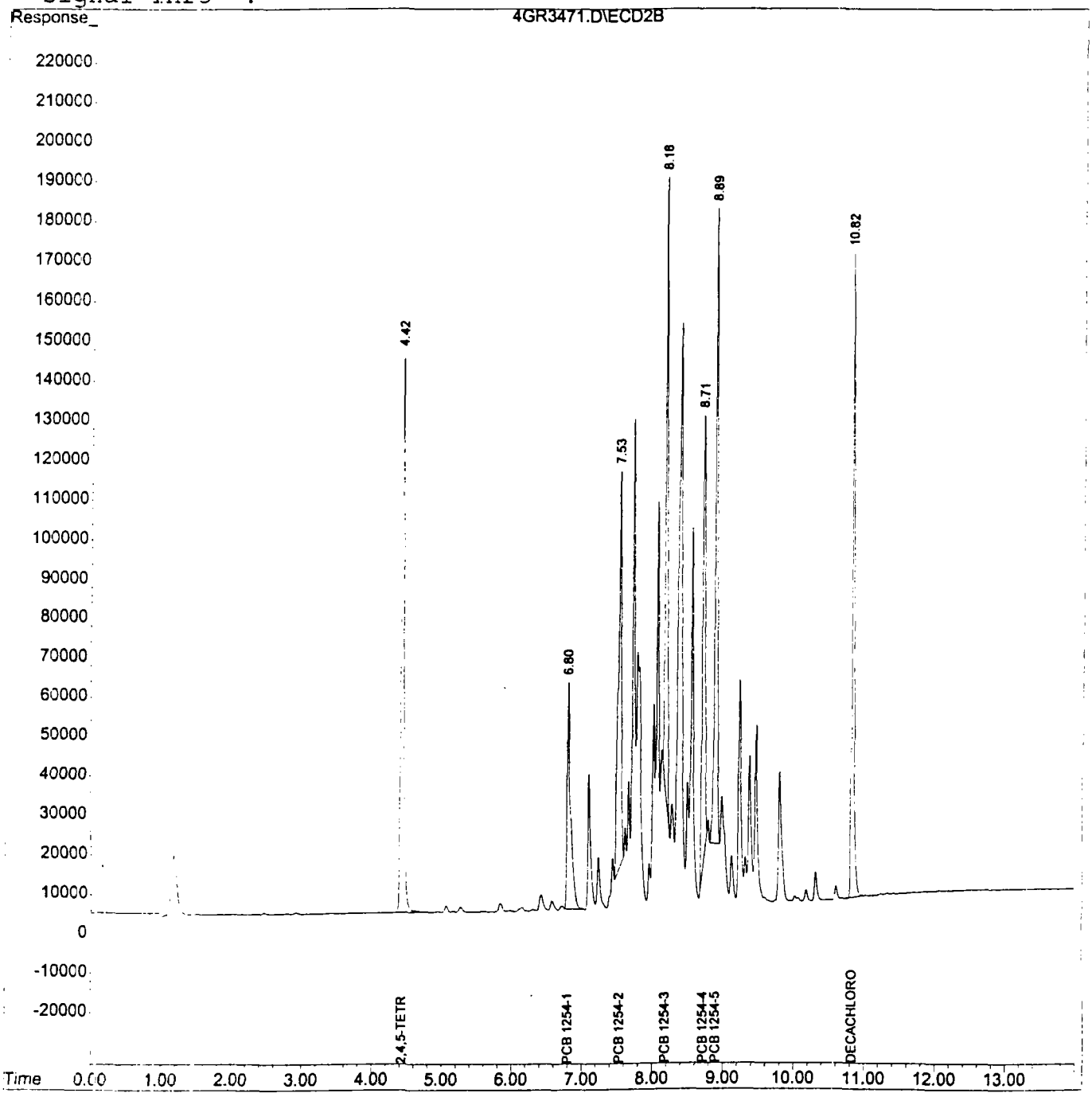


```
Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3471.D        Vial: 63
Acq On    : 25 Apr 2000  18:44                        Operator: ECL
Sample    : 1254 2.0 PPM                              Inst    : HP 4
Misc      :                                           Multiplr: 1.00
IntFile   : events.e
Quant Time: Apr 26  9:17 2000  Quant Results File: 1254R.RES

Quant Method : C:\HPCHEM\2\METHODS\1254R.M (Chemstation Integrator)
Title        : April 25, 2000
Last Update  : Wed Apr 26 09:15:24 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj.  :
Signal Phase :
Signal Info  :

        Compound                          R.T.       Response    Conc Units
    ------------------------------------------------------------------------

    System Monitoring Compounds
  1) S   2,4,5-TETRACHLORO-M-XYLENE   4.42        4044540   97.995 UG/L
 Spiked Amount      20.000   Range  30 - 132    Recovery    =  489.98%#
  7) S   DECACHLOROBIPHENYL          10.82        3480407   75.773 UG/L
 Spiked Amount      20.000   Range  36 - 144    Recovery    =  378.86%#

    Target Compounds
  2) L1  PCB 1254-1                   6.80        1972751 1527.646 UG/L
  3) L1  PCB 1254-2                   7.53        3102054 1615.235 UG/L
  4) L1  PCB 1254-3                   8.18        3378492 1556.710 UG/L
  5) L1  PCB 1254-4                   8.72        3159466 1714.793 UG/L
  6) L1  PCB 1254-5                   8.89        3868049 1678.323 UG/L
     Sum PCB 1254-1                         15480813 8092.706 UG/L
 Average PCB 1254-1                                          1618.541 UG/L
```

Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3471.D Vial: 63
Acq On : 25 Apr 2000 18:44 Operator: ECL
Sample : 1254 2.0 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:17 2000 Quant Results File: 1254R.RES

Quant Method : C:\HPCHEM\2\METHODS\1254R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:15:24 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3472.D Vial: 64
Acq On : 25 Apr 2000 19:02 Operator: ECL
Sample : 1254 ALT 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\2\METHODS\1254R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:15:24 2000
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	2,4,5-TETRACHLORO-M-XYLENE	25.000	24.730	1.1	100	0.00
2	L1	PCB 1254-1	500.000	505.255	-1.1	109	0.00
3	L1	PCB 1254-2	500.000	492.499	1.5	105	0.00
4	L1	PCB 1254-3	500.000	432.603	13.5	97	0.00
5	L1	PCB 1254-4	500.000	460.084	8.0	98	0.00
6	L1	PCB 1254-5	500.000	449.517	10.1	96	0.00
7	S	DECACHLOROBIPHENYL	25.000	22.833	8.7	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4GR3472.D 1254R.M Wed Apr 26 09:17:44 2000 Page 1

Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3472.D Vial: 64
Acq On : 25 Apr 2000 19:02 Operator: ECL
Sample : 1254 ALT 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:17 2000 Quant Results File: 1254R.RES

Quant Method : C:\HPCHEM\2\METHODS\1254R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:15:24 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

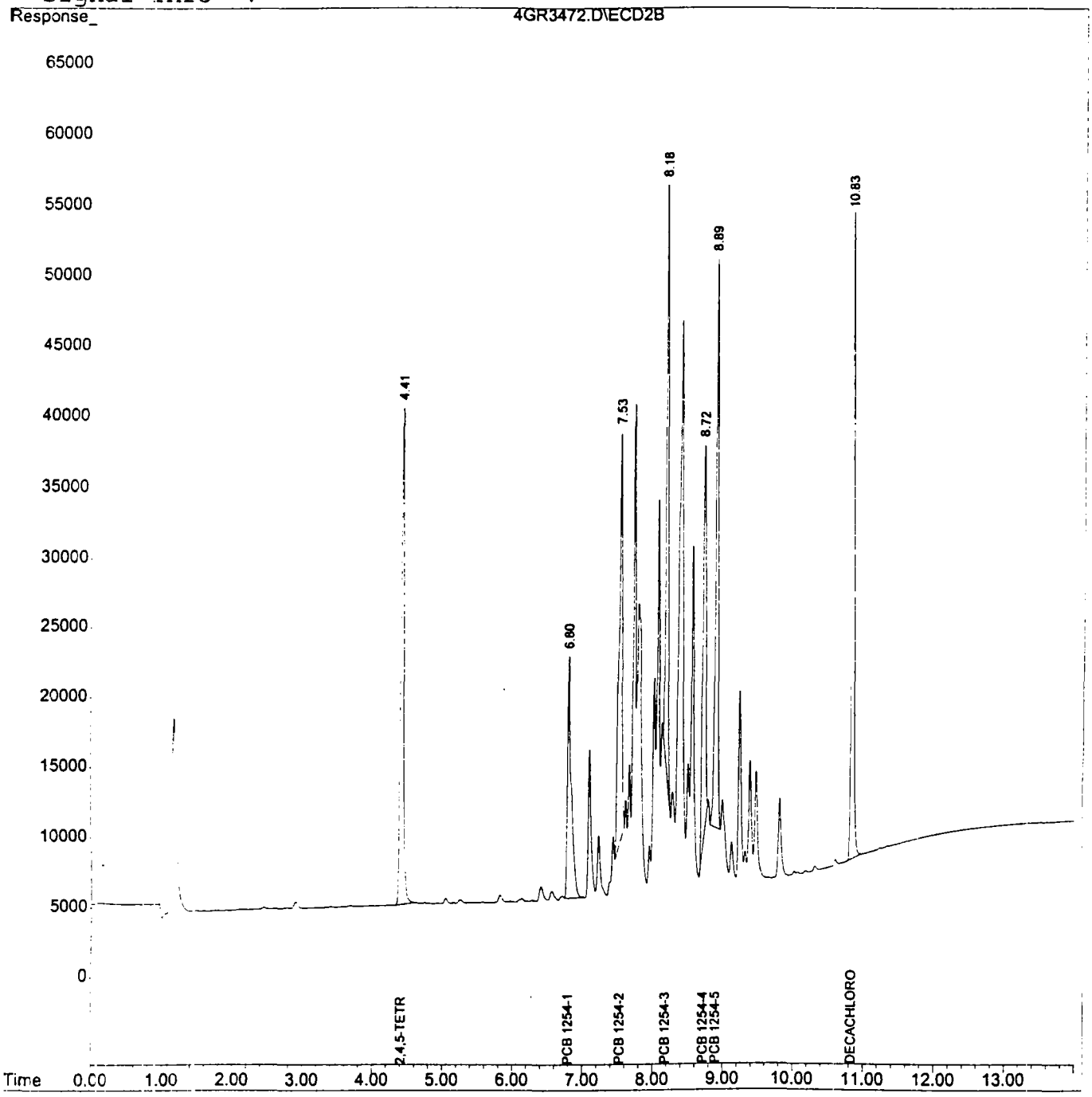
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.41	1020665	24.730 UG/L
Spiked Amount 20.000 Range 30 - 132		Recovery = 123.65%	
7) S DECACHLOROBIPHENYL	10.83	1048756	22.833 UG/L
Spiked Amount 20.000 Range 36 - 144		Recovery = 114.16%	
Target Compounds			
2) L1 PCB 1254-1	6.80	652470	505.255 UG/L
3) L1 PCB 1254-2	7.53	945843	492.499 UG/L
4) L1 PCB 1254-3	8.18	938868	432.603 UG/L
5) L1 PCB 1254-4	8.72	847695	460.084 UG/L
6) L1 PCB 1254-5	8.89	1036006	449.517 UG/L
Sum PCB 1254-1		4420882	2339.958 UG/L
Average PCB 1254-1			467.992 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3472.D Vial: 64
Acq On : 25 Apr 2000 19:02 Operator: ECL
Sample : 1254 ALT 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:17 2000 Quant Results File: 1254R.RES

Quant Method : C:\HPCHEM\2\METHODS\1254R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:15:24 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Response Factor Report HP 4

Method : C:\HPCHEM\2\METHODS\1248SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:20:46 2000

Calibration Files
= = =
= = 1 =4GR3473.D

		Compound		1	Avg	%RSD
1)	S	2,4,5-TETRACHLORO-M	4.019		4.019#E4	0.00
2)	L1	PCB 1248-1	7.160		7.160#E2	0.00
3)	L1	PCB 1248-2	2.162		2.162#E3	0.00
4)	L1	PCB 1248-3	1.474		1.474#E3	0.00
5)	L1	PCB 1248-4	1.394		1.394#E3	0.00
6)	L1	PCB 1248-5	4.350		4.350#E2	0.00
7)	S	DECACHLOROBIPHENYL	4.228		4.228#E4	0.00

(#) = Out of Range

Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3473.D Vial: 65
Acq On : 25 Apr 2000 19:21 Operator: ECL
Sample : 1248 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:20 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:20:46 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

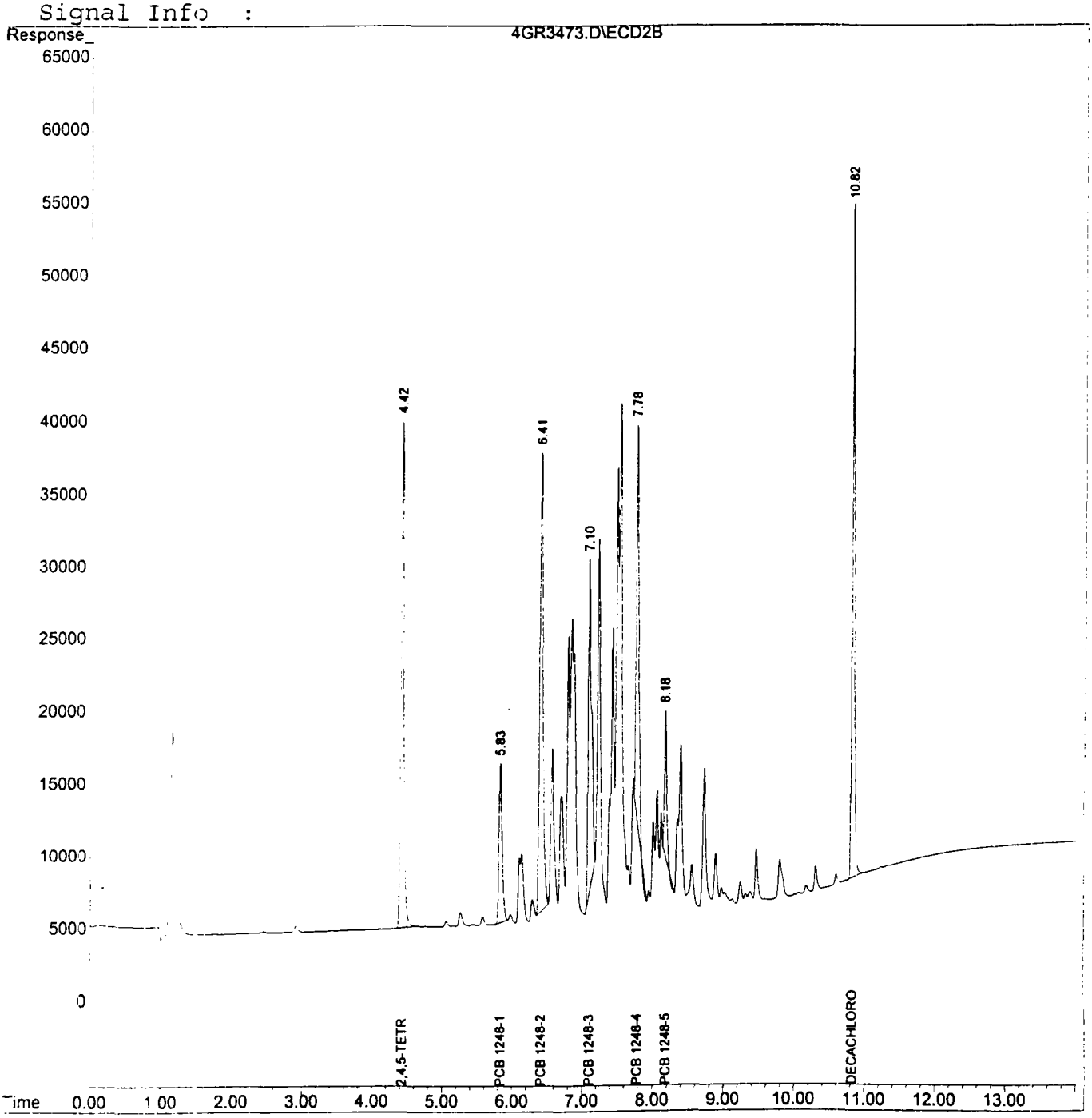
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.42	1004665	25.000 UG/L
Spiked Amount 20.000		Recovery =	125.00%
7) S DECACHLOROBIPHENYL	10.82	1056897	25.000 UG/L
Spiked Amount 20.000		Recovery =	125.00%
Target Compounds			
2) L1 PCB 1248-1	5.83	358014	500.000 UG/L
3) L1 PCB 1248-2	6.41	1080823	500.000 UG/L
4) L1 PCB 1248-3	7.10	737226	500.000 UG/L
5) L1 PCB 1248-4	7.78	697079	500.000 UG/L
6) L1 PCB 1248-5	8.18	217520	500.000 UG/L
Sum PCB 1248-1		3090662	2500.000 UG/L
Average PCB 1248-1			500.000 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3473.D Vial: 65
Acq On : 25 Apr 2000 19:21 Operator: ECL
Sample : 1248 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:20 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:20:46 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3474.D Vial: 66
Acq On : 25 Apr 2000 19:39 Operator: ECL
Sample : 1248 ALT 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:21 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:20:46 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

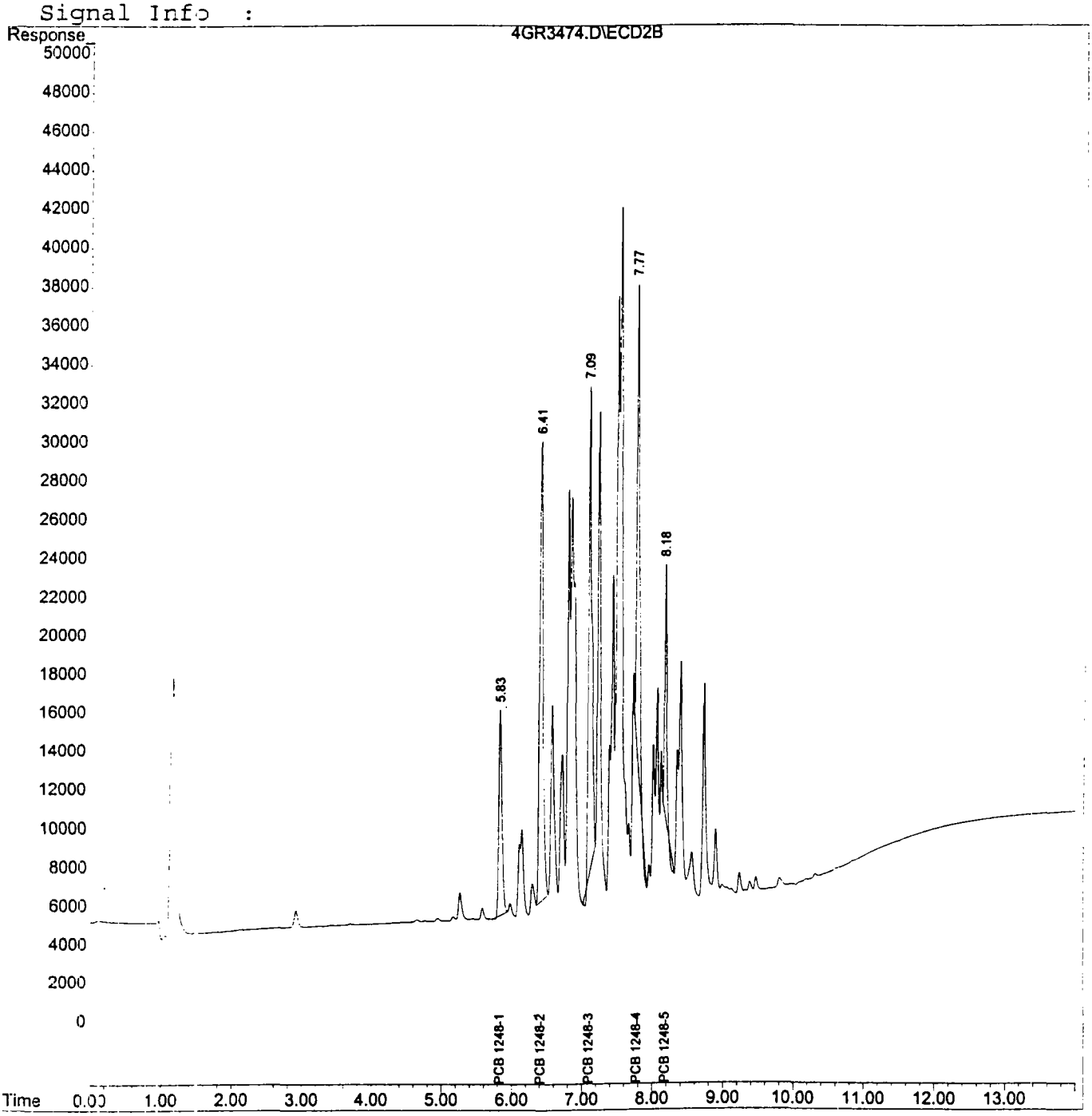
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S 2,4,5-TETRACHLORO-M-XYLENE	0.00	0	N.D.	UG/L
Spiked Amount 20.000	Recovery	=	0.00%	
7) S DECACHLOROBIPHENYL	0.00	0	N.D.	UG/L
Spiked Amount 20.000	Recovery	=	0.00%	
Target Compounds				
2) L1 PCB 1248-1	5.83	340444	475.462	UG/L
3) L1 PCB 1248-2	6.41	837127	387.263	UG/L
4) L1 PCB 1248-3	7.09	773593	524.665	UG/L
5) L1 PCB 1248-4	7.77	636888	456.826	UG/L
6) L1 PCB 1248-5	8.18	255399	587.070	UG/L
Sum PCB 1248-1		2843451	2431.287	UG/L
Average PCB 1248-1			486.257	UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3474.D Vial: 66
Acq On : 25 Apr 2000 19:39 Operator: ECL
Sample : 1248 ALT 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:21 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:20:46 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Response Factor Report HP 4

Method : C:\HPCHEM\2\METHODS\1242SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:22:53 2000

Calibration Files

=	=		=
=	=	1	=4GR3475.D

		Compound		1	Avg	%RSD
1)	S	2,4,5-TETRACHLORO-M	4.096		4.096#E4	0.00
2)	L1	PCB 1242-1	6.888		6.888#E2	0.00
3)	L1	PCB 1242-2	1.174		1.174#E3	0.00
4)	L1	PCB 1242-3	2.531		2.531#E3	0.00
5)	L1	PCB 1242-4	1.060		1.060#E3	0.00
6)	L1	PCB 1242-5	7.303		7.303#E2	0.00
7)	S	DECACHLOROBIPHENYL	4.286		4.286#E4	0.00

(#) = Out of Range

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3475.D Vial: 67
Acq On : 25 Apr 2000 19:57 Operator: ECL
Sample : 1242 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:23 2000 Quant Results File: 1242SR.RES

Quant Method : C:\HPCHEM\2\METHODS\1242SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:22:53 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

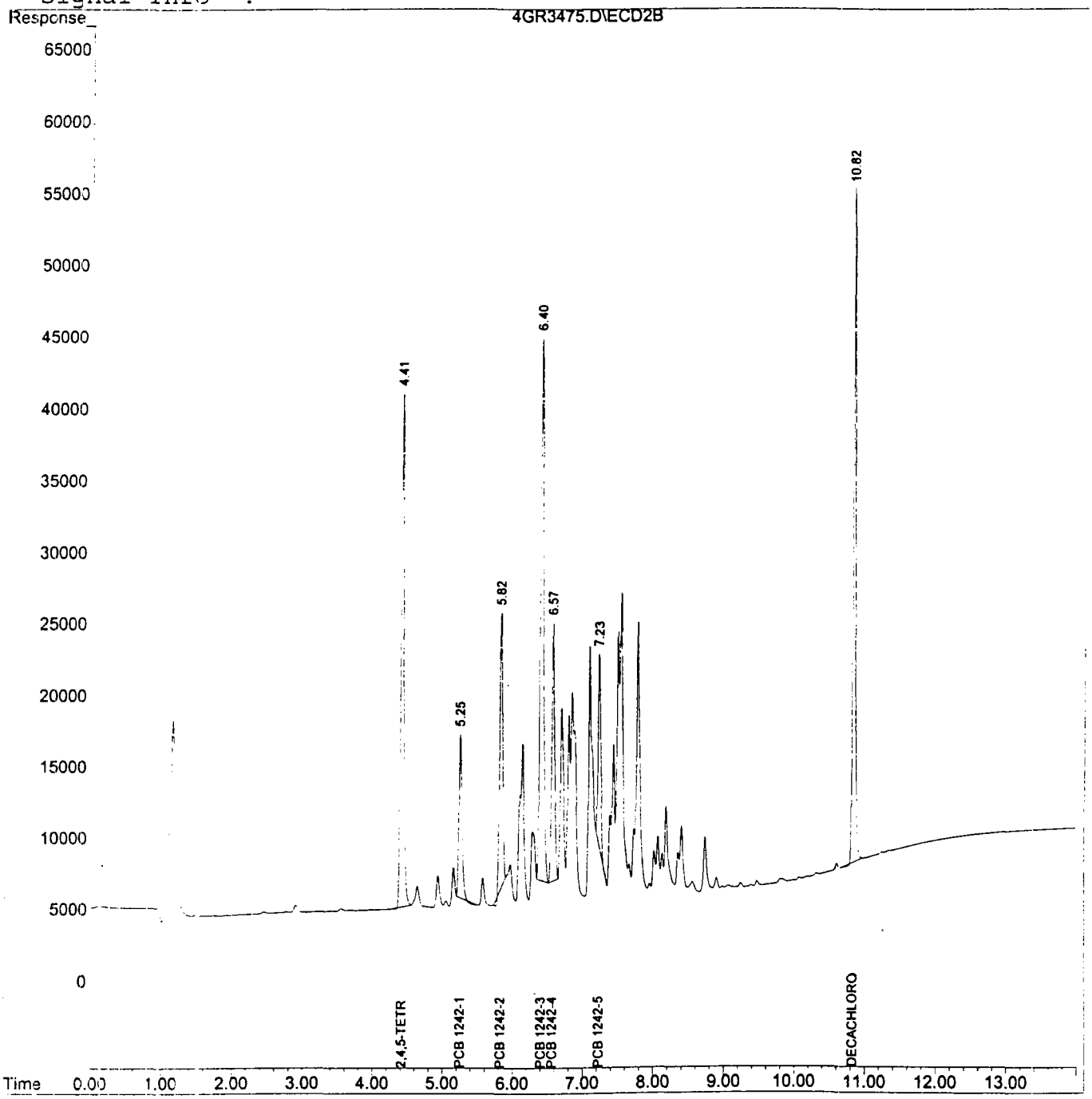
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.41	1023943	25.000 UG/L
Spiked Amount 20.000		Recovery =	125.00%
7) S DECACHLOROBIPHENYL	10.82	1071384	25.000 UG/L
Spiked Amount 20.000		Recovery =	125.00%
Target Compounds			
2) L1 PCB 1242-1	5.25	344379	500.000 UG/L
3) L1 PCB 1242-2	5.83	587058	500.000 UG/L
4) L1 PCB 1242-3	6.40	1265434	500.000 UG/L
5) L1 PCB 1242-4	6.57	529999	500.000 UG/L
6) L1 PCB 1242-5	7.23	365146	500.000 UG/L
Sum PCB 1242-1		3092015	2500.000 UG/L
Average PCB 1242-1			500.000 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3475.D Vial: 67
Acq On : 25 Apr 2000 19:57 Operator: ECL
Sample : 1242 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:23 2000 Quant Results File: 1242SR.RES

Quant Method : C:\HPCHEM\2\METHODS\1242SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:22:53 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3476.D Vial: 68
Acq On : 25 Apr 2000 20:16 Operator: ECL
Sample : 1242 ALT 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:23 2000 Quant Results File: 1242SR.RES

Quant Method : C:\HPCHEM\2\METHODS\1242SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:22:53 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

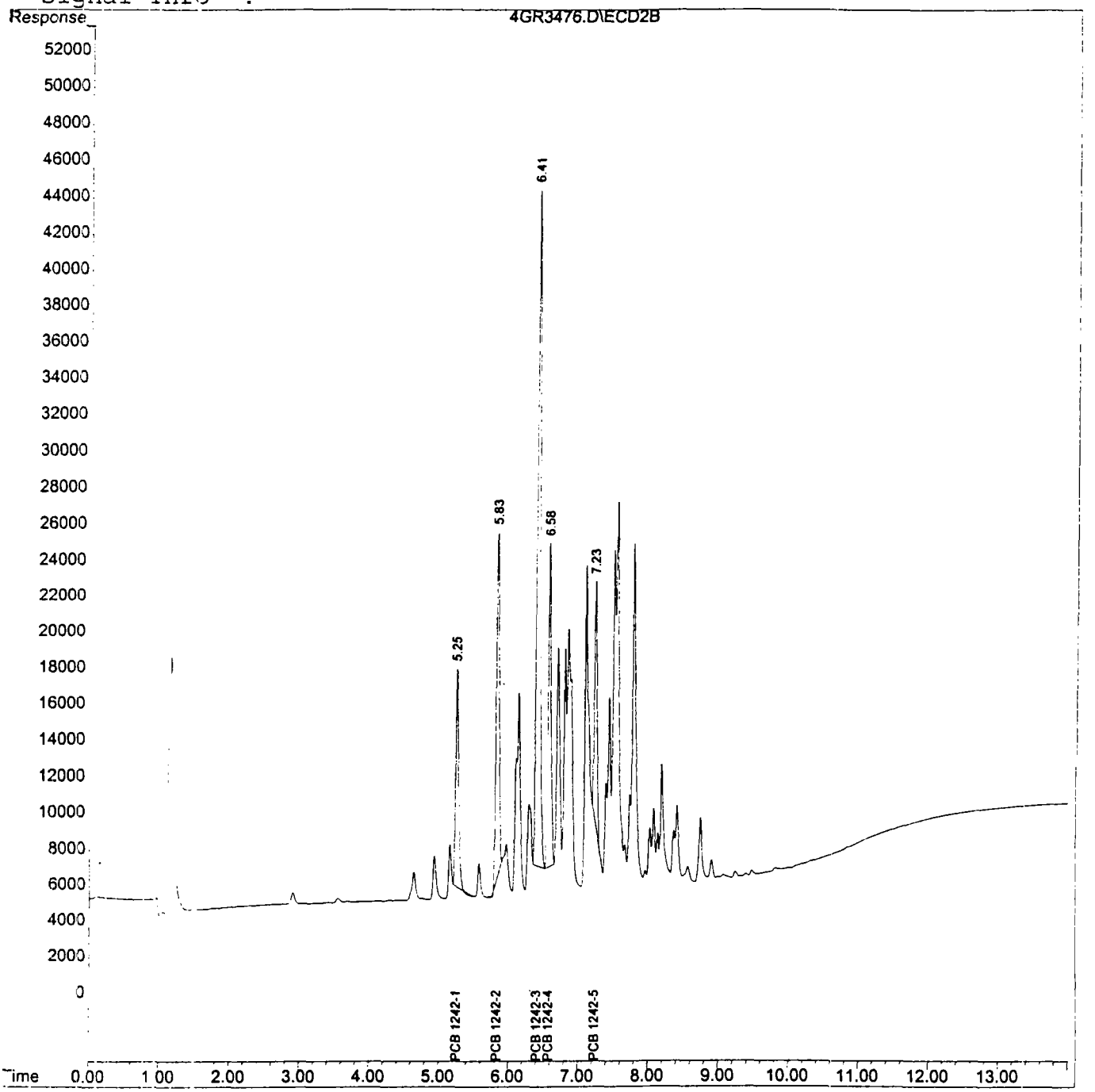
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S 2,4,5-TETRACHLORO-M-XYLENE	0.00	0	N.D.	UG/L
Spiked Amount 20.000	Recovery	=	0.00%	
7) S DECACHLOROBIPHENYL	0.00	0	N.D.	UG/L
Spiked Amount 20.000	Recovery	=	0.00%	
Target Compounds				
2) L1 PCB 1242-1	5.25	361880	525.410	UG/L
3) L1 PCB 1242-2	5.83	592776	504.870	UG/L
4) L1 PCB 1242-3	6.41	1252751	494.989	UG/L
5) L1 PCB 1242-4	6.58	526064	496.288	UG/L
6) L1 PCB 1242-5	7.23	362062	495.777	UG/L
Sum PCB 1242-1		3095533	2517.334	UG/L
Average PCB 1242-1			503.467	UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3476.D Vial: 68
Acq On : 25 Apr 2000 20:16 Operator: ECL
Sample : 1242 ALT 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:23 2000 Quant Results File: 1242SR.RES

Quant Method : C:\HPCHEM\2\METHODS\1242SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:22:53 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Response Factor Report HP 4

Method : C:\HPCHEM\2\METHODS\1232SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:26:29 2000

Calibration Files

=	=		=	
=	=	1	=4GR3477.D	

		Compound		1	Avg	%RSD
1)	S	2,4,5-TETRACHLORO-M	3.957		3.957#E4	0.00
2)	L1	PCB 1232-1	2.641		2.641#E2	0.00
3)	L1	PCB 1232-2	7.605		7.605#E2	0.00
4)	L1	PCB 1232-3	6.780		6.780#E2	0.00
5)	L1	PCB 1232-4	1.401		1.401#E3	0.00
6)	L1	PCB 1232-5	5.839		5.839#E2	0.00
7)	S	DECACHLOROBIPHENYL	4.438		4.438#E4	0.00

(#) = Out of Range

Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3477.D Vial: 69
Acq On : 25 Apr 2000 20:34 Operator: ECL
Sample : 1232 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:26 2000 Quant Results File: 1232SR.RES

Quant Method : C:\HPCHEM\2\METHODS\1232SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:26:29 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

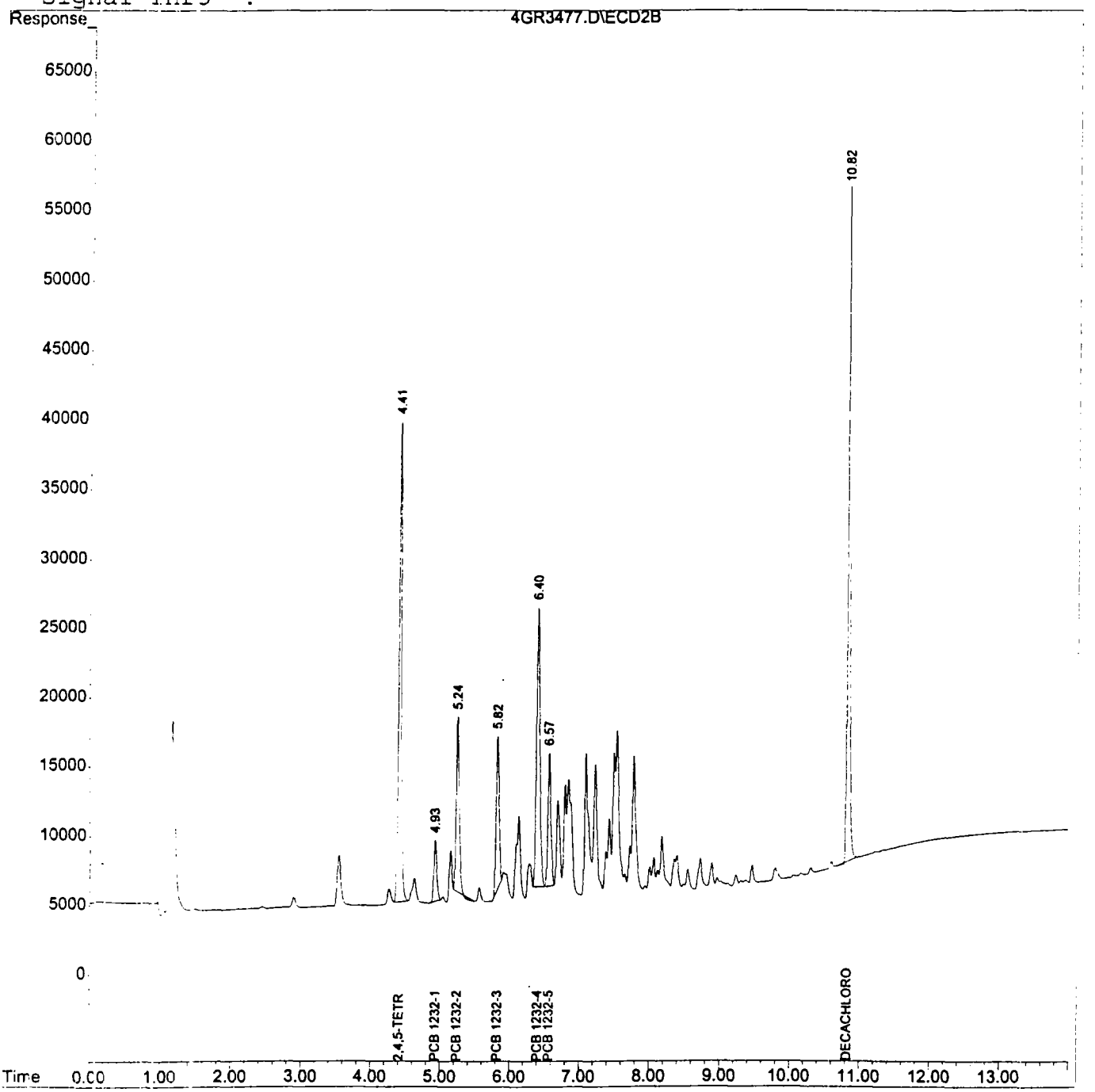
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.41	989145	25.000 UG/L
Spiked Amount 20.000		Recovery =	125.00%
7) S DECACHLOROBIPHENYL	10.82	1109601	25.000 UG/L
Spiked Amount 20.000		Recovery =	125.00%
Target Compounds			
2) L1 PCB 1232-1	4.93	132029	500.000 UG/L
3) L1 PCB 1232-2	5.25	380267	500.000 UG/L
4) L1 PCB 1232-3	5.82	339020	500.000 UG/L
5) L1 PCB 1232-4	6.41	700349	500.000 UG/L
6) L1 PCB 1232-5	6.57	291943	500.000 UG/L
Sum PCB 1232-1		1843609	2500.000 UG/L
Average PCB 1232-1			500.000 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3477.D Vial: 69
Acq On : 25 Apr 2000 20:34 Operator: ECL
Sample : 1232 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:26 2000 Quant Results File: 1232SR.RES

Quant Method : C:\HPCHEM\2\METHODS\1232SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:26:29 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3478.D Vial: 70
Acq On : 25 Apr 2000 20:52 Operator: ECL
Sample : 1232 ALT 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:26 2000 Quant Results File: 1232SR.RES

Quant Method : C:\HPCHEM\2\METHODS\1232SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:26:29 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

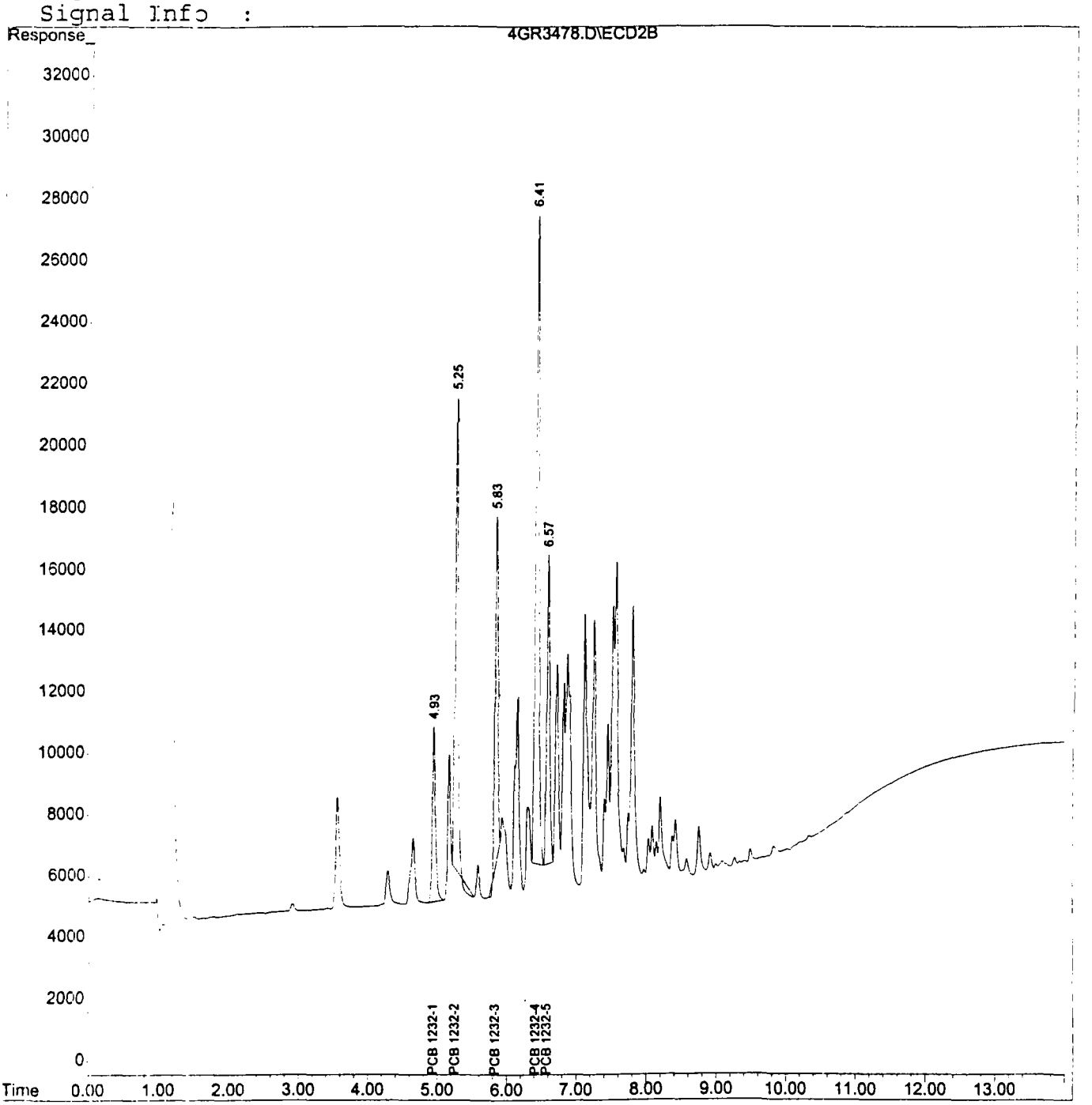
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S 2,4,5-TETRACHLORO-M-XYLENE	0.00	0	N.D.	UG/L
Spiked Amount 20.000	Recovery	=	0.00%	
7) S DECACHLOROBIPHENYL	0.00	0	N.D.	UG/L
Spiked Amount 20.000	Recovery	=	0.00%	
Target Compounds				
2) L1 PCB 1232-1	4.94	184901	700.226	UG/L
3) L1 PCB 1232-2	5.25	452083	594.428	UG/L
4) L1 PCB 1232-3	5.83	337366	497.561	UG/L
5) L1 PCB 1232-4	6.41	730476	521.508	UG/L
6) L1 PCB 1232-5	6.58	304098	520.817	UG/L
Sum PCB 1232-1		2008924	2834.540	UG/L
Average PCB 1232-1			566.908	UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3478.D Vial: 70
Acq On : 25 Apr 2000 20:52 Operator: ECL
Sample : 1232 ALT 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:26 2000 Quant Results File: 1232SR.RES

Quant Method : C:\HPCHEM\2\METHODS\1232SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:26:29 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Response Factor Report HP 4

Method : C:\HPCHEM\2\METHODS\1221SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:28:32 2000

Calibration Files

=	=	=
=	=	1 =4GR3479.D

		Compound	1	Avg	%RSD
1)	S	2,4,5-TETRACHLORO-M	4.247	4.247#E4	0.00
2)	L1	PCB 1221-1	4.666	4.666#E2	0.00
3)	L1	PCB 1221-2	4.883	4.883#E2	0.00
4)	L1	PCB 1221-3	2.615	2.615#E2	0.00
5)	L1	PCB 1221-4	1.052	1.052#E3	0.00
6)	L1	PCB 1221-5	2.183	2.183#E2	0.00
7)	S	DECACHLOROBIPHENYL	3.957	3.957#E4	0.00

(#) = Out of Range

Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3479.D Vial: 71
Acq On : 25 Apr 2000 21:10 Operator: ECL
Sample : 1221 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:28 2000 Quant Results File: 1221SR.RES

Quant Method : C:\HPCHEM\2\METHODS\1221SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:28:32 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

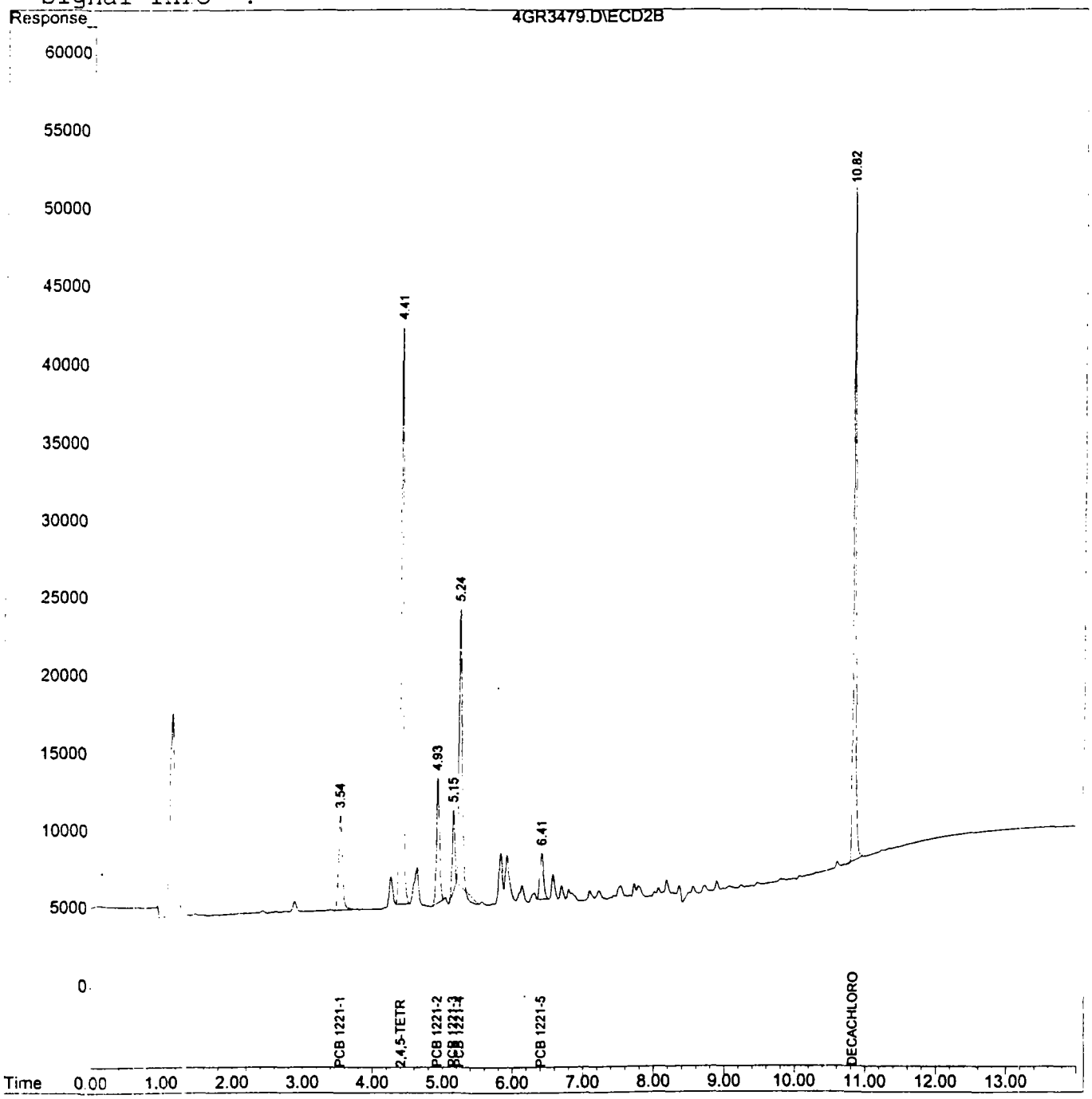
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.41	1061764	25.000	UG/L
Spiked Amount 20.000		Recovery =	125.00%	
7) S DECACHLOROBIPHENYL	10.82	989211	25.000	UG/L
Spiked Amount 20.000		Recovery =	125.00%	
Target Compounds				
2) L1 PCB 1221-1	3.54	233296	500.000	UG/L
3) L1 PCB 1221-2	4.93	244164	500.000	UG/L
4) L1 PCB 1221-3	5.15	130769	500.000	UG/L
5) L1 PCB 1221-4	5.24	526230	500.000	UG/L
6) L1 PCB 1221-5	6.41	109130	500.000	UG/L
Sum PCB 1221-1		1243588	2500.000	UG/L
Average PCB 1221-1			500.000	UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3479.D Vial: 71
Acq On : 25 Apr 2000 21:10 Operator: ECL
Sample : 1221 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:28 2000 Quant Results File: 1221SR.RES

Quant Method : C:\HPCHEM\2\METHODS\1221SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:28:32 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3480.D Vial: 72
Acq On : 25 Apr 2000 21:29 Operator: ECL
Sample : 1221 ALT 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:29 2000 Quant Results File: 1221SR.RES

Quant Method : C:\HPCHEM\2\METHODS\1221SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:28:32 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S 2,4,5-TETRACHLORO-M-XYLENE	0.00	0	N.D.	UG/L
Spiked Amount 20.000	Recovery	=	0.00%	
7) S DECACHLOROBIPHENYL	0.00	0	N.D.	UG/L
Spiked Amount 20.000	Recovery	=	0.00%	
Target Compounds				
2) L1 PCB 1221-1	3.55	237854	509.770	UG/L
3) L1 PCB 1221-2	4.94	271577	556.137	UG/L
4) L1 PCB 1221-3	5.16	135504	518.105	UG/L
5) L1 PCB 1221-4	5.25	529102	502.728	UG/L
6) L1 PCB 1221-5	6.42	81673	374.202	UG/L
Sum PCB 1221-1		1255711	2460.943	UG/L
Average PCB 1221-1			492.189	UG/L

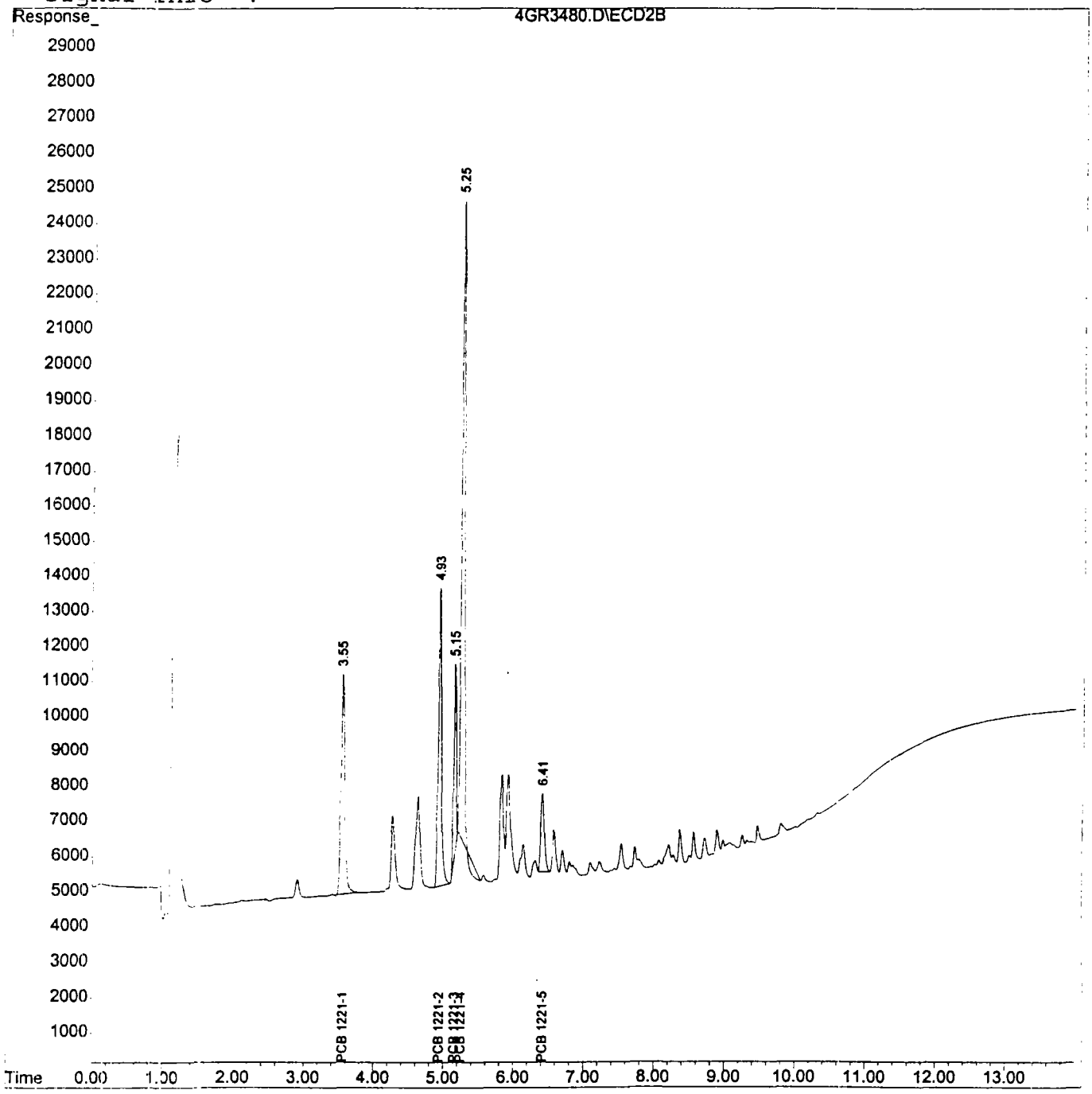
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042500.SEC\4GR3480.D Vial: 72
Acq On : 25 Apr 2000 21:29 Operator: ECL
Sample : 1221 ALT 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 26 9:29 2000 Quant Results File: 1221SR.RES

Quant Method : C:\HPCHEM\2\METHODS\1221SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:28:32 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3581.D Vial: 73
Acq On : 28 Apr 2000 17:52 Operator: ECL
Sample : 1660 CHECK 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 10% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	2,4,5-TETRACHLORO-M-XYLENE	25.000	27.552	-10.2	108	-0.01
2	L1	PCB 1016-1	500.000	502.817	-0.6	105	0.00
3	L1	PCB 1016-2	500.000	486.695	2.7	105	0.00
4	L1	PCB 1016-3	500.000	507.610	-1.5	106	0.00
5	L1	PCB 1016-4	500.000	512.551	-2.5	105	0.00
6	L1	PCB 1016-5	500.000	511.774	-2.4	106	0.00
7	L2	PCB 1260-1	500.000	493.148	1.4	103	0.00
8	L2	PCB 1260-2	500.000	507.179	-1.4	105	0.00
9	L2	PCB 1260-3	500.000	506.485	-1.3	105	0.00
10	L2	PCB 1260-4	500.000	498.894	0.2	105	0.00
11	L2	PCB 1260-5	500.000	516.346	-3.3	104	0.00
12	S	DECACHLOROBIPHENYL	25.000	24.580	1.7	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3581.D Vial: 73
Acq On : 28 Apr 2000 17:52 Operator: ECL
Sample : 1660 CHECK 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 1 15:16 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

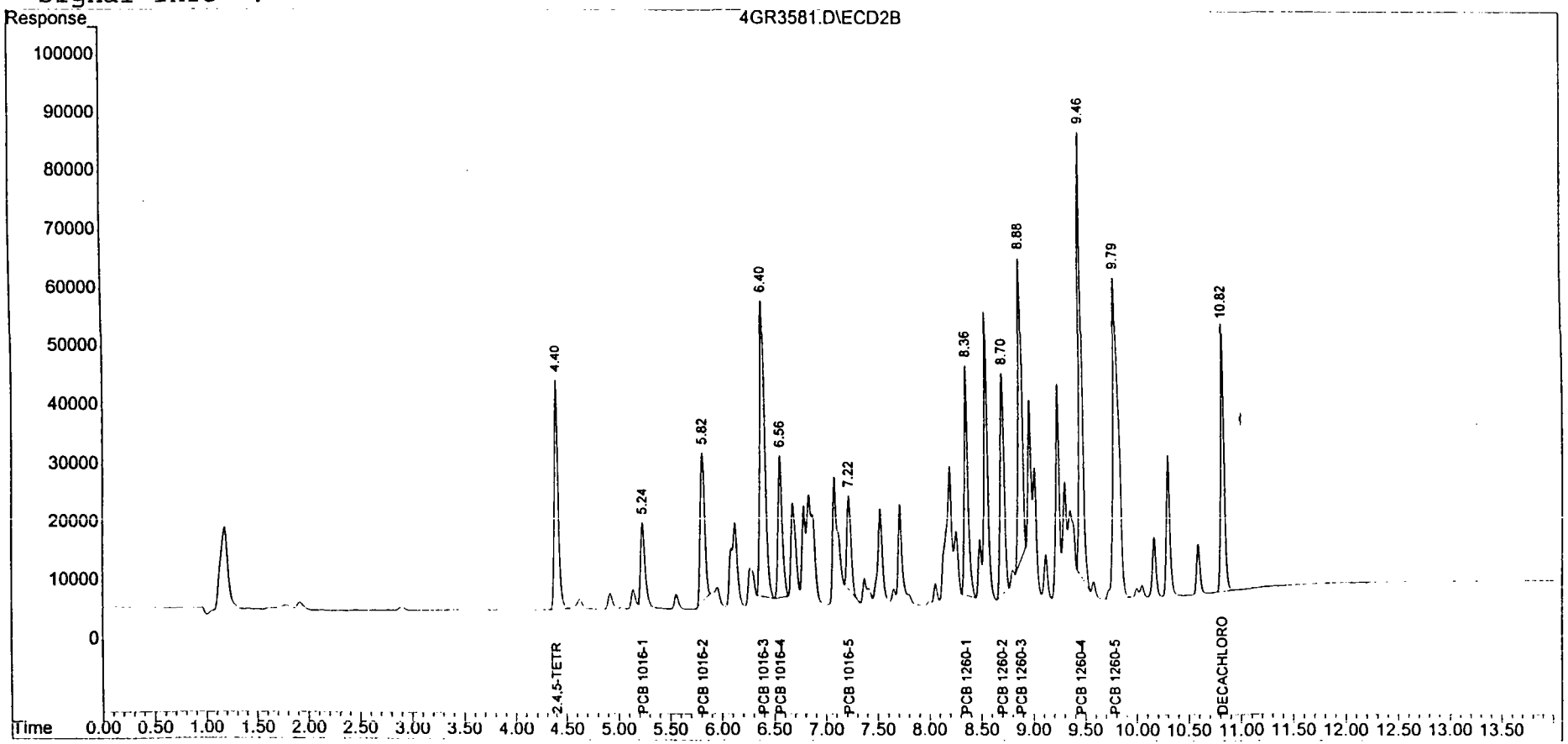
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.41	1108126	27.552 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	137.76%
2) S DECACHLOROBIPHENYL	10.83	1036166	24.580 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	122.90%
Target Compounds			
2) L1 PCB 1016-1	5.24	424872	502.817 UG/L
3) L1 PCB 1016-2	5.82	768936	486.695 UG/L
4) L1 PCB 1016-3	6.40	1652548	507.610 UG/L
5) L1 PCB 1016-4	6.56	692471	512.551 UG/L
6) L1 PCB 1016-5	7.22	460016	511.774 UG/L
Sum PCB 1016-1		3998842	2521.447 UG/L
Average PCB 1016-1			504.289 UG/L
7) L2 PCB 1260-1	8.36	956166	493.148 UG/L
8) L2 PCB 1260-2	8.70	1039016	507.179 UG/L
9) L2 PCB 1260-3	8.88	1310331	506.485 UG/L
10) L2 PCB 1260-4	9.46	1687135	498.894 UG/L
11) L2 PCB 1260-5	9.79	2115656	516.346 UG/L
Sum PCB 1260-1		7108305	2522.052 UG/L
Average PCB 1260-1			504.410 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3581.D Vial: 73
Acq On : 28 Apr 2000 17:52 Operator: ECL
Sample : 1660 CHECK 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 1 15:16 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



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Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3582.D Vial: 74
Acq On : 28 Apr 2000 18:10 Operator: ECL
Sample : 1248 CHECK 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\2\METHODS\1248SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:20:46 2000
Response via : Single Level Calibration

Min. RRF : 15.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	2,4,5-TETRACHLORO-M-XYLENE	25.000	27.054	-8.2	108	-0.01
2	L1	PCB 1248-1	500.000	527.498	-5.5	105	0.00
3	L1	PCB 1248-2	500.000	531.254	-6.3	106	0.00
4	L1	PCB 1248-3	500.000	499.890	0.0	100	0.00
5	L1	PCB 1248-4	500.000	544.109	-8.8	109	0.00
6	L1	PCB 1248-5	500.000	539.233	-7.8	108	0.00
7	S	DECACHLOROBIPHENYL	25.000	25.059	-0.2	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3582.D Vial: 74
Acq On : 28 Apr 2000 18:10 Operator: ECL
Sample : 1248 CHECK 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 1 15:19 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:20:46 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.41	1087229	27.054 UG/L
Spiked Amount 20.000		Recovery =	135.27%
7) S DECACHLOROBIPHENYL	10.82	1059386	25.059 UG/L
Spiked Amount 20.000		Recovery =	125.30%
Target Compounds			
2) L1 PCB 1248-1	5.83	377703	527.498 UG/L
3) L1 PCB 1248-2	6.41	1148383	531.254 UG/L
4) L1 PCB 1248-3	7.10	737063	499.890 UG/L
5) L1 PCB 1248-4	7.77	758574	544.109 UG/L
6) L1 PCB 1248-5	8.18	234588	539.233 UG/L
Sum PCB 1248-1		3256311	2641.983 UG/L
Average PCB 1248-1			528.397 UG/L

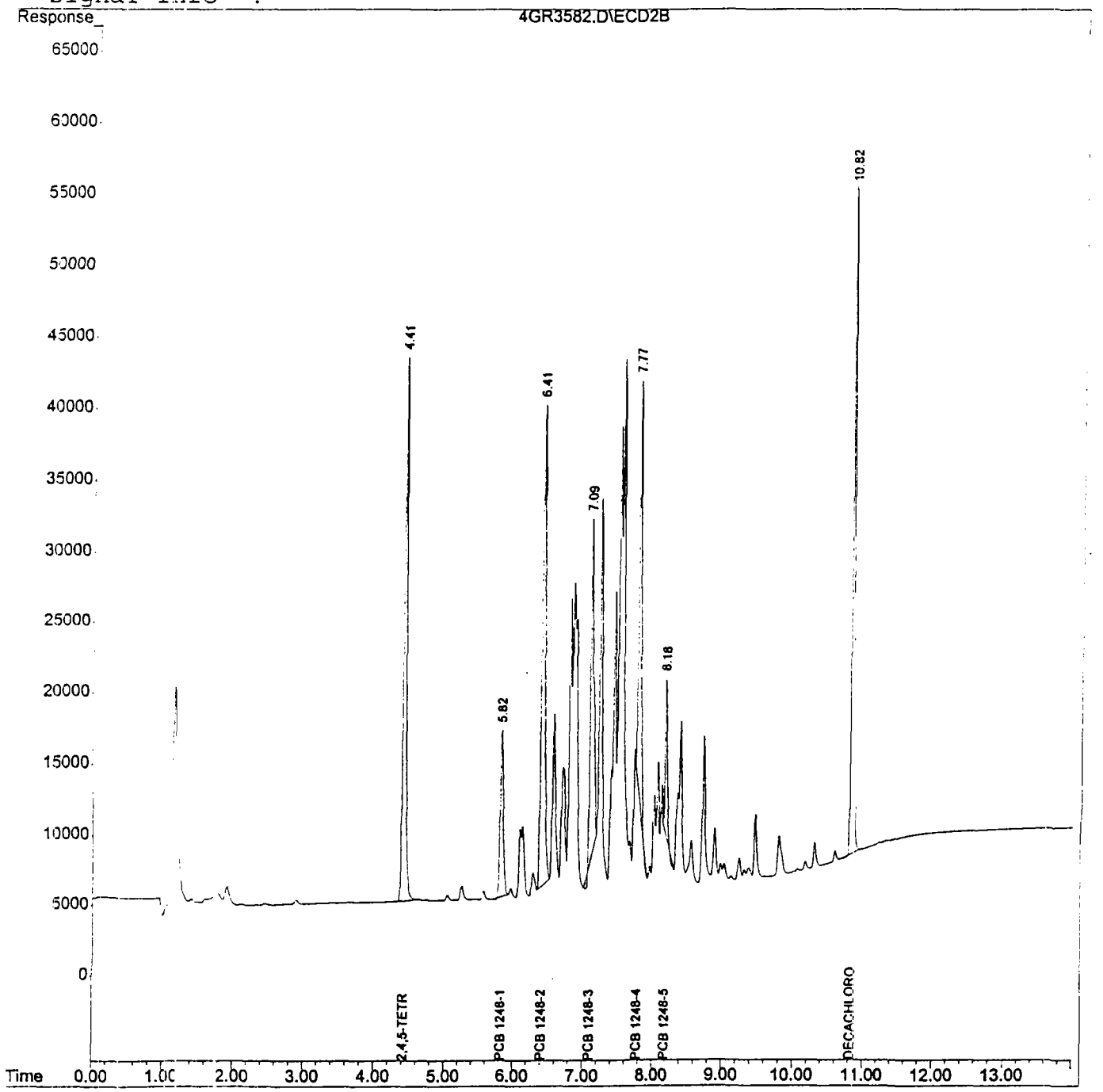
f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3582.D Vial: 74
Acq On : 28 Apr 2000 18:10 Operator: ECL
Sample : 1248 CHECK 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 1 15:19 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:20:46 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3593.D Vial: 85
Acq On : 28 Apr 2000 21:32 Operator: ECL
Sample : 1660 CHECK 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 10% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	2,4,5-TETRACHLORO-M-XYLENE	25.000	28.519	-14.1	112	0.00
2	L1	PCB 1016-1	500.000	518.579	-3.7	108	0.00
3	L1	PCB 1016-2	500.000	509.552	-1.9	110	0.00
4	L1	PCB 1016-3	500.000	523.590	-4.7	109	0.00
5	L1	PCB 1016-4	500.000	529.502	-5.9	109	0.00
6	L1	PCB 1016-5	500.000	534.780	-7.0	111	0.00
7	L2	PCB 1260-1	500.000	511.697	-2.3	107	0.00
8	L2	PCB 1260-2	500.000	527.262	-5.5	109	0.00
9	L2	PCB 1260-3	500.000	524.290	-4.9	109	0.00
10	L2	PCB 1260-4	500.000	521.910	-4.4	109	0.00
11	L2	PCB 1260-5	500.000	540.569	-8.1	109	0.00
12	S	DECACHLOROBIPHENYL	25.000	25.651	-2.6	106	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3593.D Vial: 85
Acq On : 28 Apr 2000 21:32 Operator: ECL
Sample : 1660 CHECK 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 1 15:17 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.41	1147036	28.519 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	142.59%
12) S DECACHLOROBIPHENYL	10.82	1081321	25.651 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	128.26%
Target Compounds			
2) L1 PCB 1016-1	5.24	438190	518.579 UG/L
3) L1 PCB 1016-2	5.82	805047	509.552 UG/L
4) L1 PCB 1016-3	6.40	1704572	523.590 UG/L
5) L1 PCB 1016-4	6.57	715372	529.502 UG/L
6) L1 PCB 1016-5	7.22	480696	534.780 UG/L
Sum PCB 1016-1		4143876	2616.003 UG/L
Average PCB 1016-1			523.201 UG/L
7) L2 PCB 1260-1	8.36	992132	511.697 UG/L
8) L2 PCB 1260-2	8.70	1080159	527.262 UG/L
9) L2 PCB 1260-3	8.88	1356396	524.290 UG/L
10) L2 PCB 1260-4	9.46	1764969	521.910 UG/L
11) L2 PCB 1260-5	9.79	2214909	540.569 UG/L
Sum PCB 1260-1		7408565	2625.729 UG/L
Average PCB 1260-1			525.146 UG/L

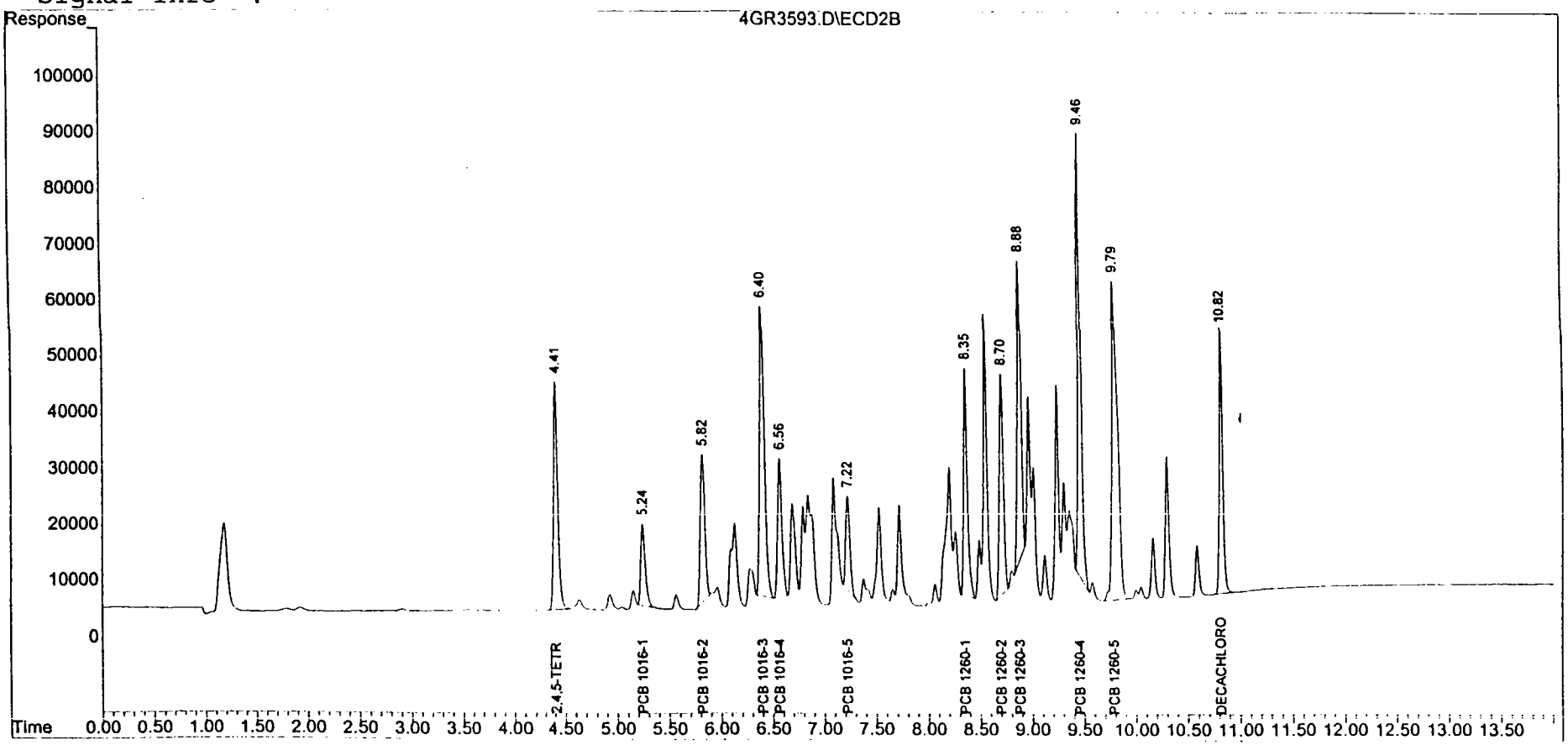
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3593.D Vial: 85
Acq On : 28 Apr 2000 21:32 Operator: ECL
Sample : 1660 CHECK 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 1 15:17 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



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Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3594.D Vial: 86
Acq On : 28 Apr 2000 21:51 Operator: ECL
Sample : 1248 CHECK 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\2\METHODS\1248SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:20:46 2000
Response via : Single Level Calibration

Min. RRF : 15.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	2,4,5-TETRACHLORO-M-XYLENE	25.000	27.208	-8.8	109	-0.01
2	L1	PCB 1248-1	500.000	534.450	-6.9	107	-0.01
3	L1	PCB 1248-2	500.000	538.313	-7.7	108	-0.01
4	L1	PCB 1248-3	500.000	541.291	-8.3	108	0.00
5	L1	PCB 1248-4	500.000	536.509	-7.3	107	0.00
6	L1	PCB 1248-5	500.000	550.100	-10.0	110	0.00
7	S	DECACHLOROBIPHENYL	25.000	25.568	-2.3	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3594.D Vial: 86
Acq On : 28 Apr 2000 21:51 Operator: ECL
Sample : 1248 CHECK 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 1 15:20 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:20:46 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

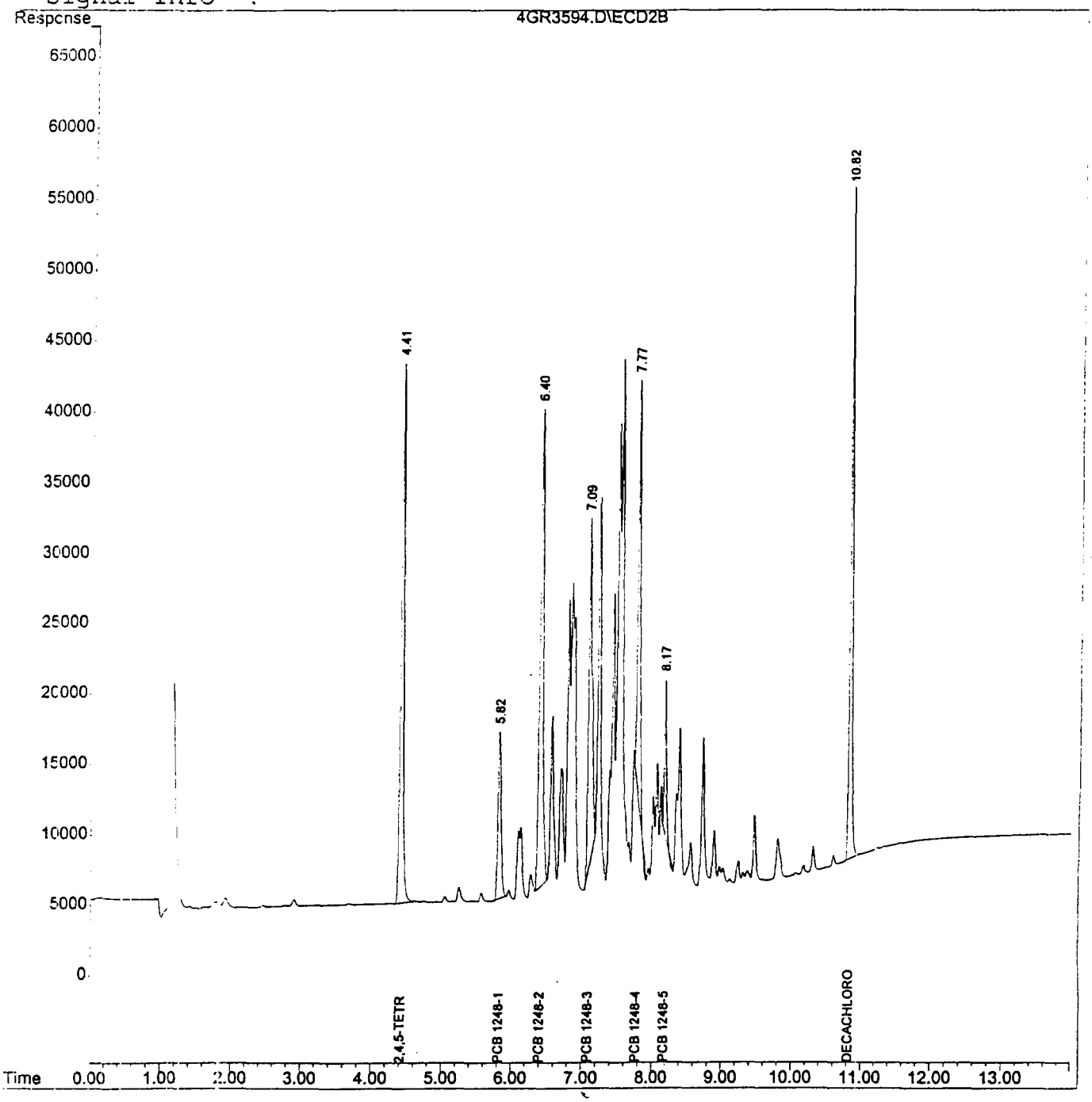
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.41	1093410	27.208	UG/L
Spiked Amount 20.000		Recovery =	136.04%	
7) S DECACHLOROBIPHENYL	10.82	1080896	25.568	UG/L
Spiked Amount 20.000		Recovery =	127.84%	
Target Compounds				
2) L1 PCB 1248-1	5.82	382681	534.450	UG/L
3) L1 PCB 1248-2	6.40	1163643	538.313	UG/L
4) L1 PCB 1248-3	7.09	798107	541.291	UG/L
5) L1 PCB 1248-4	7.77	747979	536.509	UG/L
6) L1 PCB 1248-5	8.17	239316	550.100	UG/L
Sum PCB 1248-1		3331725	2700.663	UG/L
Average PCB 1248-1			540.133	UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3594.D Vial: 86
Acq On : 28 Apr 2000 21:51 Operator: ECL
Sample : 1248 CHECK 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 1 15:20 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:20:46 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3604.D Vial: 96
Acq On : 29 Apr 2000 00:54 Operator: ECL
Sample : 1660 CHECK 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 10% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	2,4,5-TETRACHLORO-M-XYLENE	25.000	28.421	-13.7	112	0.00
2	L1	PCB 1016-1	500.000	521.514	-4.3	109	0.00
3	L1	PCB 1016-2	500.000	509.241	-1.8	110	0.00
4	L1	PCB 1016-3	500.000	525.234	-5.0	109	0.00
5	L1	PCB 1016-4	500.000	531.162	-6.2	109	0.00
6	L1	PCB 1016-5	500.000	534.987	-7.0	111	0.00
7	L2	PCB 1260-1	500.000	491.786	1.6	103	0.00
8	L2	PCB 1260-2	500.000	530.661	-6.1	110	0.00
9	L2	PCB 1260-3	500.000	528.633	-5.7	109	0.00
10	L2	PCB 1260-4	500.000	526.533	-5.3	110	0.00
11	L2	PCB 1260-5	500.000	544.677	-8.9	110	0.00
12	S	DECACHLOROBIPHENYL	25.000	25.792	-3.2	107	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3604.D Vial: 96
Acq On : 29 Apr 2000 00:54 Operator: ECL
Sample : 1660 CHECK 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 1 15:18 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.42	1143085	28.421 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	142.10%
12) S DECACHLOROBIPHENYL	10.82	1087263	25.792 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	128.96%
Target Compounds			
2) L1 PCB 1016-1	5.25	440670	521.514 UG/L
3) L1 PCB 1016-2	5.82	804556	509.241 UG/L
4) L1 PCB 1016-3	6.40	1709922	525.234 UG/L
5) L1 PCB 1016-4	6.57	717614	531.162 UG/L
6) L1 PCB 1016-5	7.22	480881	534.987 UG/L
Sum PCB 1016-1		4153643	2622.137 UG/L
Average PCB 1016-1			524.427 UG/L
7) L2 PCB 1260-1	8.36	953526	491.786 UG/L
8) L2 PCB 1260-2	8.70	1087122	530.661 UG/L
9) L2 PCB 1260-3	8.88	1367631	528.633 UG/L
10) L2 PCB 1260-4	9.46	1780603	526.533 UG/L
11) L2 PCB 1260-5	9.79	2231740	544.677 UG/L
Sum PCB 1260-1		7420622	2622.290 UG/L
Average PCB 1260-1			524.458 UG/L

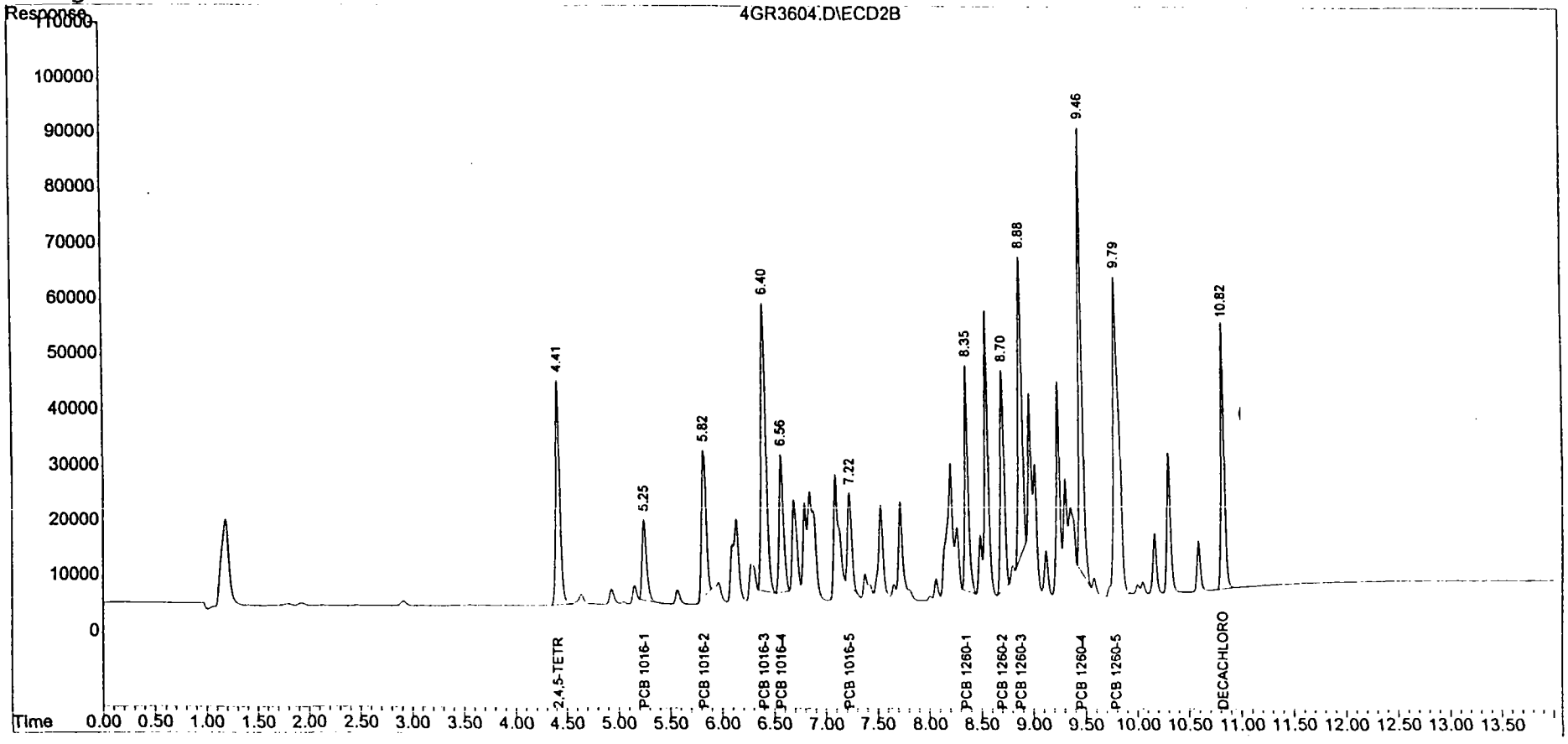
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3604.D Vial: 96
Acq On : 29 Apr 2000 00:54 Operator: ECL
Sample : 1660 CHECK 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 1 15:18 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3605.D Vial: 97
Acq On : 29 Apr 2000 1:13 Operator: ECL
Sample : 1248 CHECK 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\2\METHODS\1248SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:20:46 2000
Response via : Single Level Calibration

Min. RRF : 15.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	2,4,5-TETRACHLORO-M-XYLENE	25.000	26.648	-6.6	107	0.00
2	L1	PCB 1248-1	500.000	527.367	-5.5	105	0.00
3	L1	PCB 1248-2	500.000	525.463	-5.1	105	0.00
4	L1	PCB 1248-3	500.000	526.079	-5.2	105	0.00
5	L1	PCB 1248-4	500.000	521.438	-4.3	104	0.00
6	L1	PCB 1248-5	500.000	530.461	-6.1	106	0.00
7	S	DECACHLOROBIPHENYL	25.000	24.917	0.3	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3605.D Vial: 97
Acq On : 29 Apr 2000 1:13 Operator: ECL
Sample : 1248 CHECK 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 1 15:20 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:20:46 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.42	1070883	26.648 UG/L
Spiked Amount 20.000		Recovery =	133.24%
7) S DECACHLOROBIPHENYL	10.82	1053404	24.917 UG/L
Spiked Amount 20.000		Recovery =	124.59%
Target Compounds			
2) L1 PCB 1248-1	5.82	377609	527.367 UG/L
3) L1 PCB 1248-2	6.40	1135865	525.463 UG/L
4) L1 PCB 1248-3	7.09	775678	526.079 UG/L
5) L1 PCB 1248-4	7.77	726967	521.438 UG/L
6) L1 PCB 1248-5	8.18	230772	530.461 UG/L
Sum PCB 1248-1		3246892	2630.809 UG/L
Average PCB 1248-1			526.162 UG/L

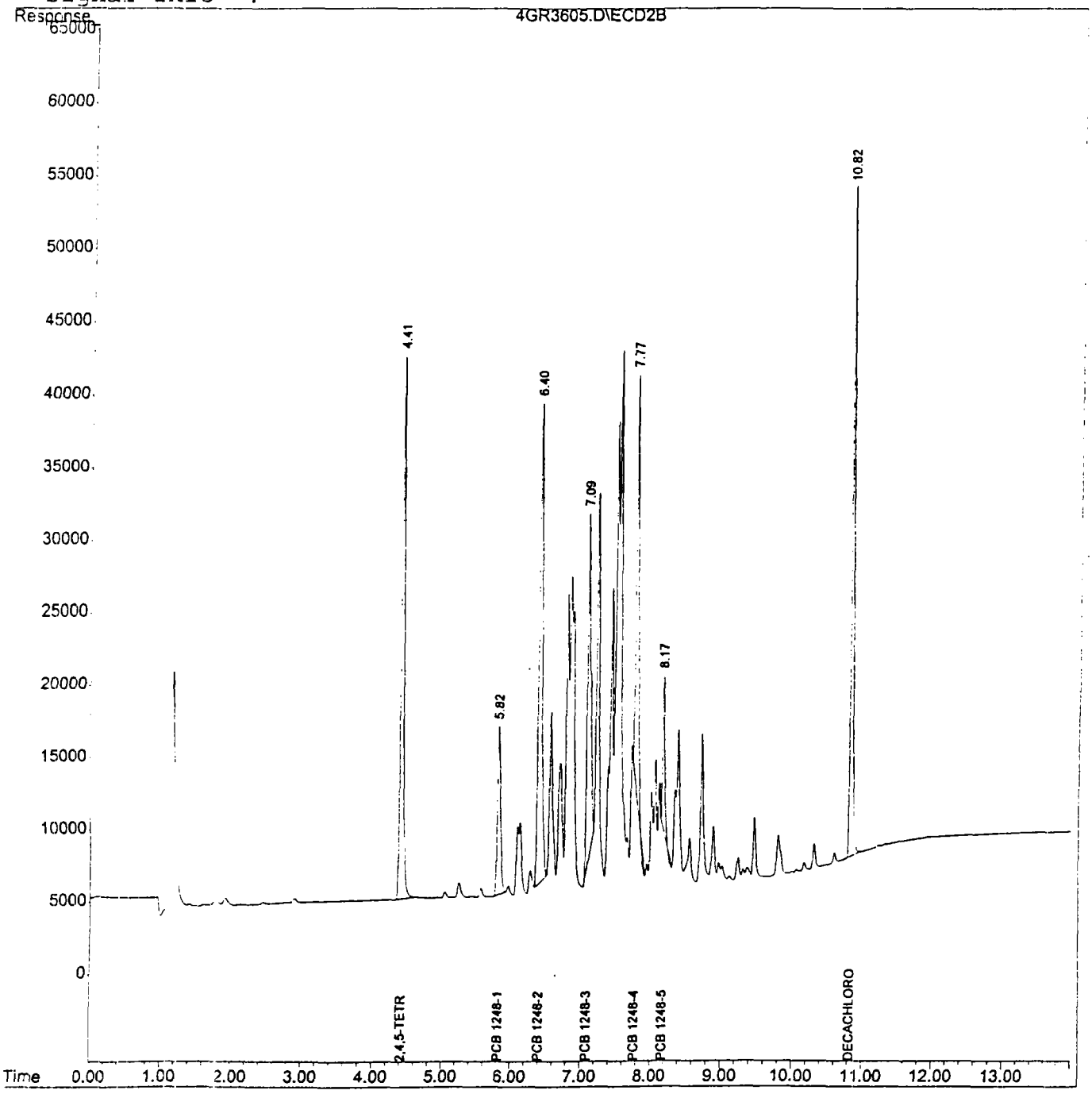
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3605.D Vial: 97
Acq On : 29 Apr 2000 1:13 Operator: ECL
Sample : 1248 CHECK 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 1 15:20 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:20:46 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\050200\4GF3882.D Vial: 5
Acq On : 2 May 2000 12:48 Operator: ECL
Sample : 1248 CHECK 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\2\METHODS\1248F.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 13:51:33 2000
Response via : Multiple Level Calibration

Min. RRF : 15.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	S	2,4,5-TETRACHLORO-M-XYLENE	34.751	34.121 E3	1.8	99	-0.02
2	L1	PCB 1248-1	623.776	599.968	3.8	100	-0.01
3	L1	PCB 1248-2	1.630	1.516#E3	7.0	100	0.00
4	L1	PCB 1248-3	1.231	1.191#E3	3.2	103	-0.01
5	L1	PCB 1248-4	510.969	494.306	3.3	99	-0.01
6	L1	PCB 1248-5	461.662	407.501	11.7	91	-0.01
7	S	DECACHLOROBIPHENYL	32.109	30.387 E3	5.4	99	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data File : C:\HPCHEM\2\DATA\050200\4GF3882.D Vial: 5
Acq On : 2 May 2000 12:48 Operator: ECL
Sample : 1248 CHECK 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 3 8:47 2000 Quant Results File: 1248F.RES

Quant Method : C:\HPCHEM\2\METHODS\1248F.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 13:51:33 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

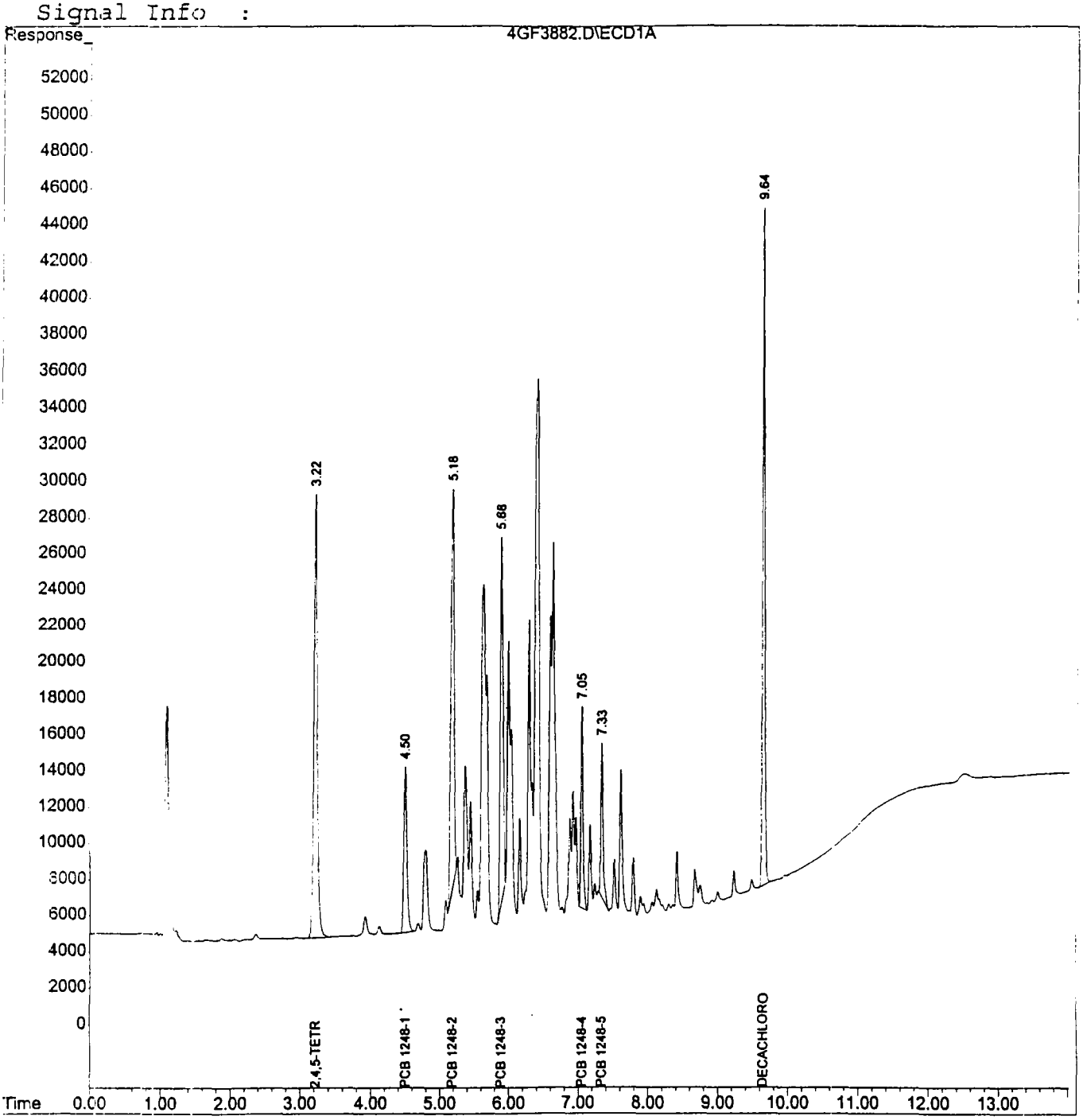
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	3.22	853034	24.547 UG/L
Spiked Amount 20.000		Recovery =	122.74%
7) S DECACHLOROBIPHENYL	9.64	759686	23.660 UG/L
Spiked Amount 20.000		Recovery =	118.30%
Target Compounds			
2) L1 PCB 1248-1	4.50	299984	480.917 UG/L
3) L1 PCB 1248-2	5.18	757821	464.967 UG/L
4) L1 PCB 1248-3	5.89	595449	483.596 UG/L
5) L1 PCB 1248-4	7.05	247153	483.694 UG/L
6) L1 PCB 1248-5	7.33	203751	441.341 UG/L
Sum PCB 1248-1		2104158	2354.515 UG/L
Average PCB 1248-1			470.903 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\050200\4GF3882.D Vial: 5
Acq On : 2 May 2000 12:48 Operator: ECL
Sample : 1248 CHECK 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 3 8:47 2000 Quant Results File: 1248F.RES

Quant Method : C:\HPCHEM\2\METHODS\1248F.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 13:51:33 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\050200\4GF3885.D Vial: 8
Acq On : 2 May 2000 13:43 Operator: ECL
Sample : 1248 CHECK 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\2\METHODS\1248F.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 13:51:33 2000
Response via : Multiple Level Calibration

Min. RRF : 15.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	S	2,4,5-TETRACHLORO-M-XYLENE	34.751	35.142 E3	-1.1	102	-0.03
2	L1	PCB 1248-1	623.776	619.626	0.7	104	-0.02
3	L1	PCB 1248-2	1.630	1.601#E3	1.8	105	-0.02
4	L1	PCB 1248-3	1.231	1.235#E3	-0.3	107	-0.02
5	L1	PCB 1248-4	510.969	524.813	-2.7	105	-0.01
6	L1	PCB 1248-5	461.662	415.561	10.0	93	-0.01
7	S	DECACHLOROBIPHENYL	32.109	32.390 E3	-0.9	105	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data File : C:\HPCHEM\2\DATA\050200\4GF3885.D Vial: 8
Acq On : 2 May 2000 13:43 Operator: ECL
Sample : 1248 CHECK 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 3 8:47 2000 Quant Results File: 1248F.RES

Quant Method : C:\HPCHEM\2\METHODS\1248F.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 13:51:33 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

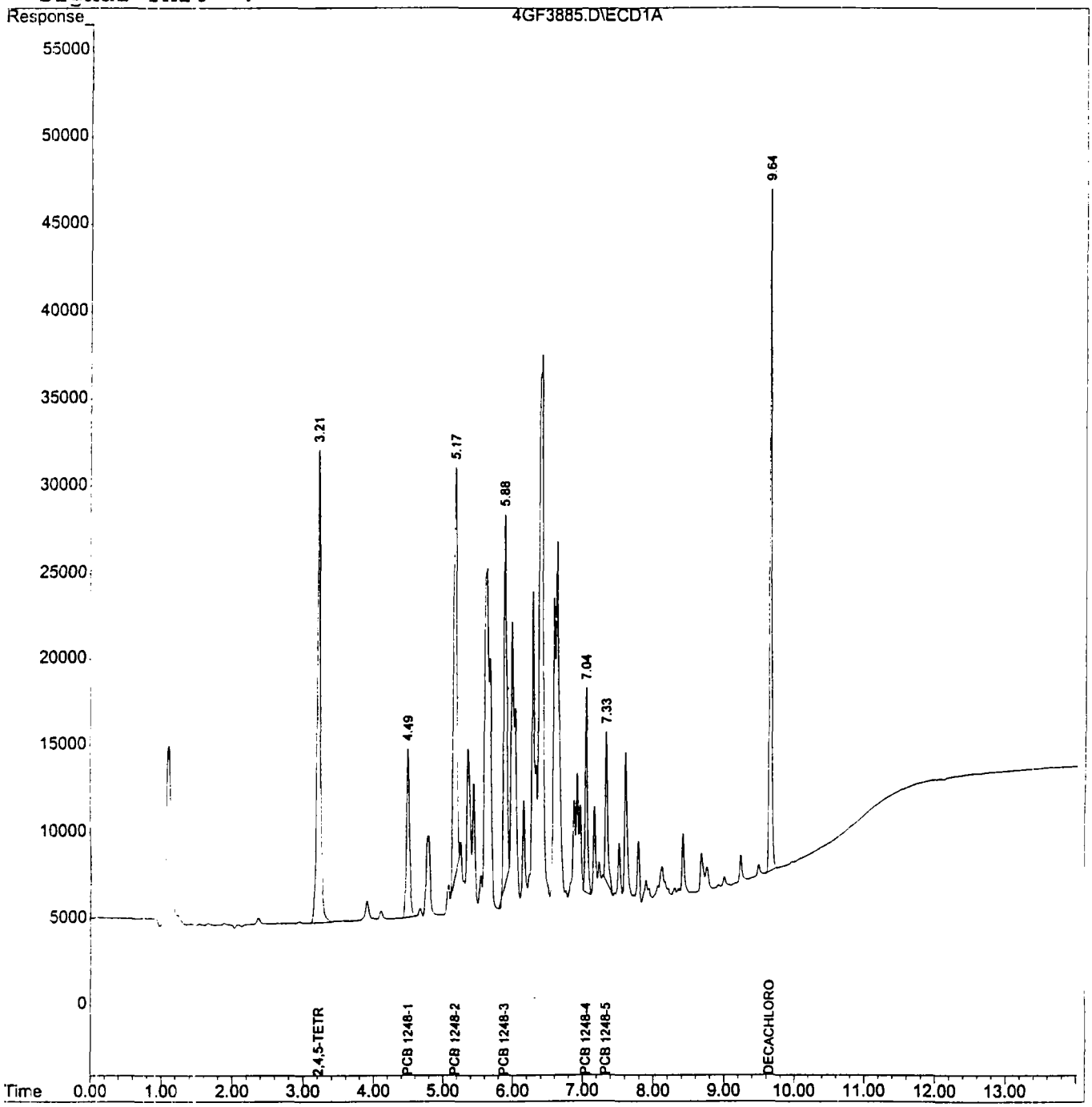
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	3.21	878551	25.281 UG/L
Spiked Amount 20.000		Recovery =	126.40%
7) S DECACHLOROBIPHENYL	9.64	809738	25.218 UG/L
Spiked Amount 20.000		Recovery =	126.09%
Target Compounds			
2) L1 PCB 1248-1	4.49	309813	496.674 UG/L
3) L1 PCB 1248-2	5.17	800730	491.294 UG/L
4) L1 PCB 1248-3	5.88	617653	501.629 UG/L
5) L1 PCB 1248-4	7.04	262407	513.546 UG/L
6) L1 PCB 1248-5	7.33	207780	450.070 UG/L
Sum PCB 1248-1		2198383	2453.214 UG/L
Average PCB 1248-1			490.643 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\050200\4GF3885.D Vial: 8
Acq On : 2 May 2000 13:43 Operator: ECL
Sample : 1248 CHECK 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 3 8:47 2000 Quant Results File: 1248F.RES

Quant Method : C:\HPCHEM\2\METHODS\1248F.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 13:51:33 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



2.2.3.4 Raw QC Data

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3583.D Vial: 75
Acq On : 28 Apr 2000 18:28 Operator: ECL
Sample : WG75921-02 BLANK V137 P49 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:23 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.41	489063	12.160 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	60.80%
12) S DECACHLOROBIPHENYL	10.82	864440	20.507 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	102.54%
Target Compounds			
2) L1 PCB 1016-1	0.00	0	N.D. UG/L
3) L1 PCB 1016-2	0.00	0	N.D. UG/L
4) L1 PCB 1016-3	0.00	0	N.D. UG/L
5) L1 PCB 1016-4	0.00	0	N.D. UG/L
6) L1 PCB 1016-5	0.00	0	N.D. UG/L
Sum PCB 1016-1		0	N.D. UG/L
Average PCB 1016-1			0.000 UG/L
7) L2 PCB 1260-1	0.00	0	N.D. UG/L
8) L2 PCB 1260-2	0.00	0	N.D. UG/L
9) L2 PCB 1260-3	0.00	0	N.D. UG/L
10) L2 PCB 1260-4	0.00	0	N.D. UG/L
11) L2 PCB 1260-5	0.00	0	N.D. UG/L
Sum PCB 1260-1		0	N.D. UG/L
Average PCB 1260-1			0.000 UG/L

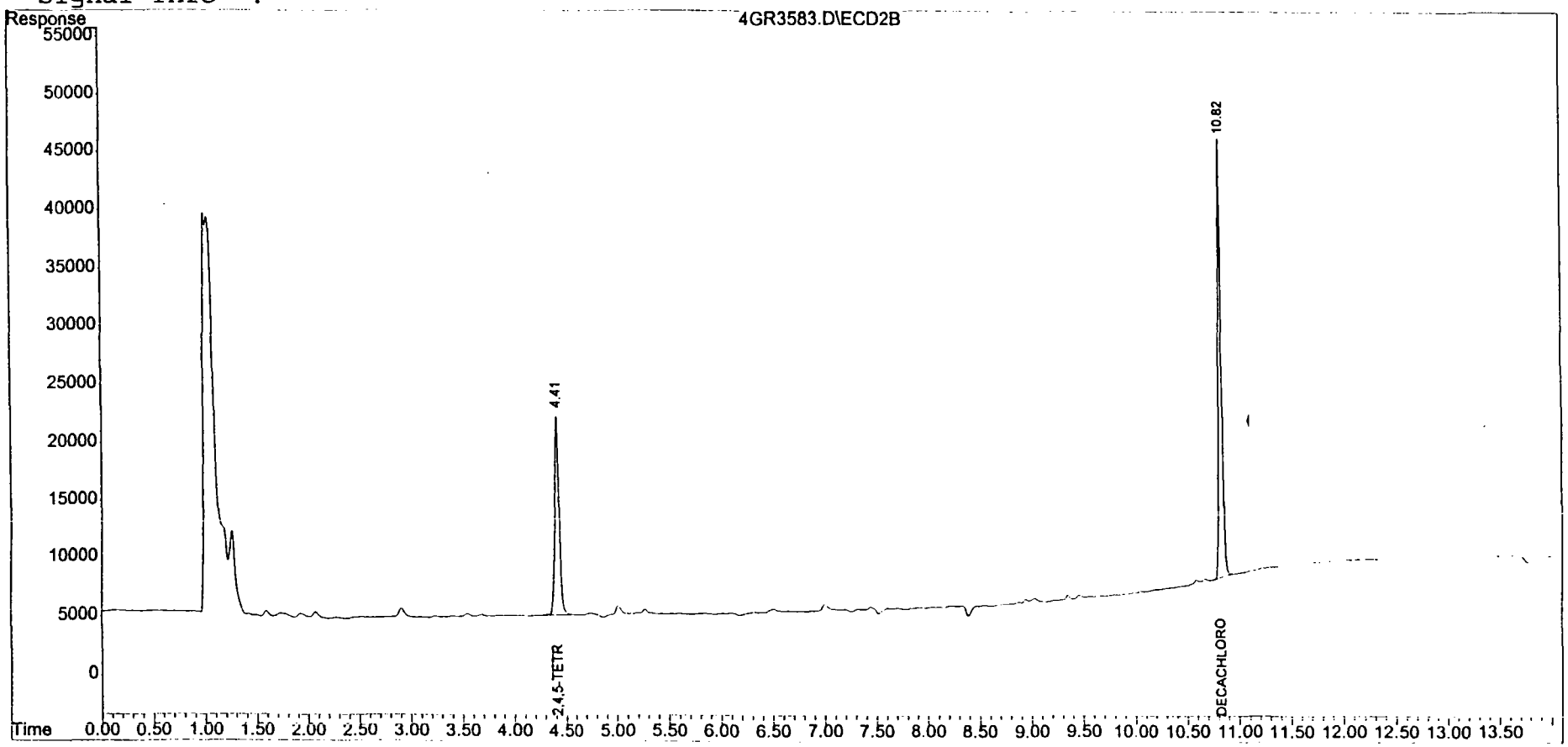
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3583.D Vial: 75
Acq On : 28 Apr 2000 18:28 Operator: ECL
Sample : WG75921-02 BLANK V137 P49 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:23 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3584.D Vial: 76
Acq On : 28 Apr 2000 18:47 Operator: ECL
Sample : WG75921-03 LCS V137 P49 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:42 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:20:46 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.42	505299	12.574 UG/L
Spiked Amount 20.000		Recovery =	62.87%
7) S DECACHLOROBIPHENYL	10.82	637587	15.082 UG/L
Spiked Amount 20.000		Recovery =	75.41%
Target Compounds			
2) L1 PCB 1248-1	5.83	158251	2.210 UG/L
3) L1 PCB 1248-2	6.41	492342	2.278 UG/L
4) L1 PCB 1248-3	7.10	359401	2.438 UG/L
5) L1 PCB 1248-4	7.78	336655	2.415 UG/L
6) L1 PCB 1248-5	8.18	115920	2.665 UG/L
Sum PCB 1248-1		1462569	12.005 UG/L
Average PCB 1248-1			2.401 UG/L

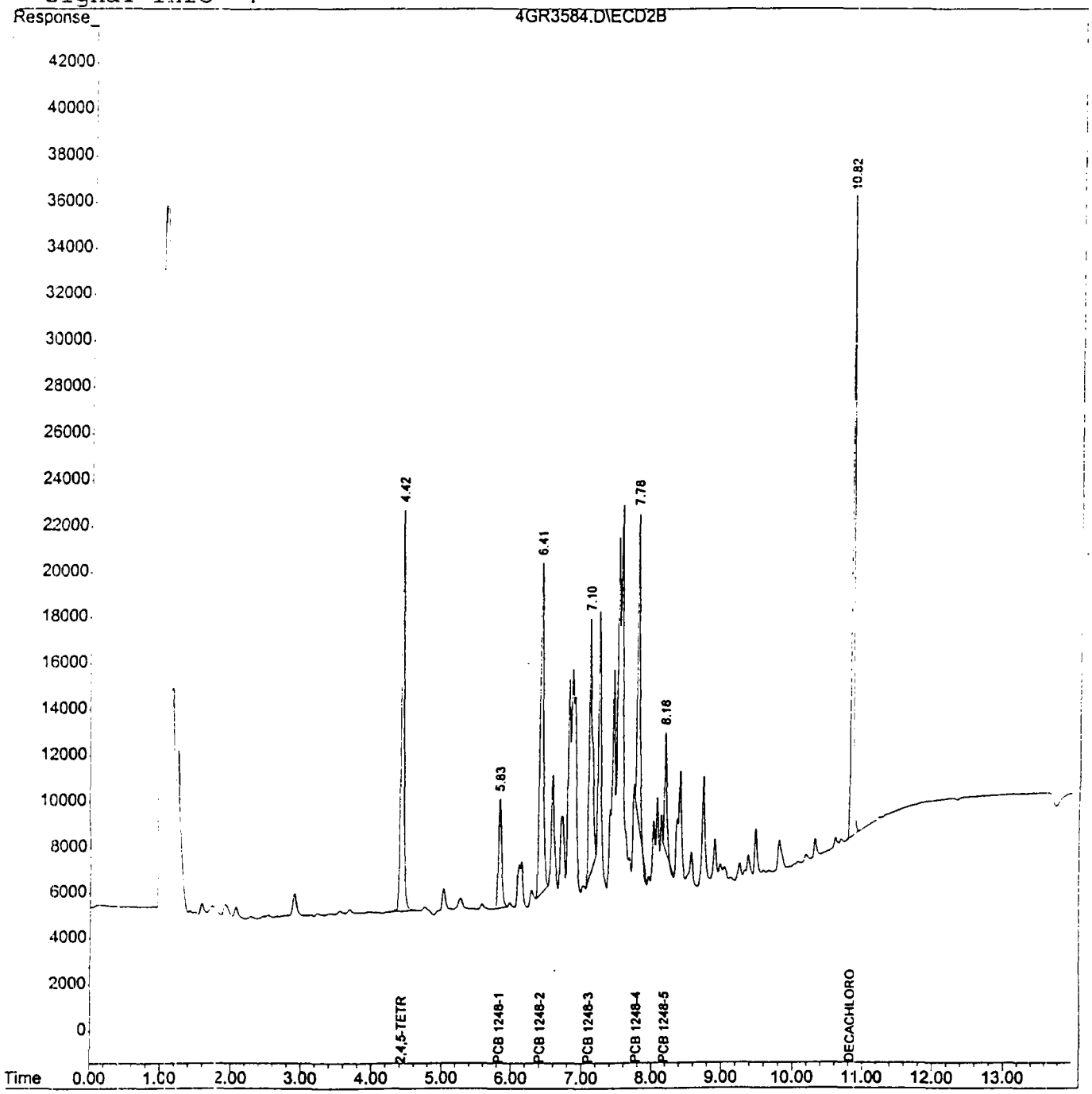
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3584.D Vial: 76
Acq On : 28 Apr 2000 18:47 Operator: ECL
Sample : WG75921-03 LCS V137 P49 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:42 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SR.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:20:46 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3584.D Vial: 76
Acq On : 28 Apr 2000 18:47 Operator: ECL
Sample : WG75921-03 LCS V137 P49 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:23 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

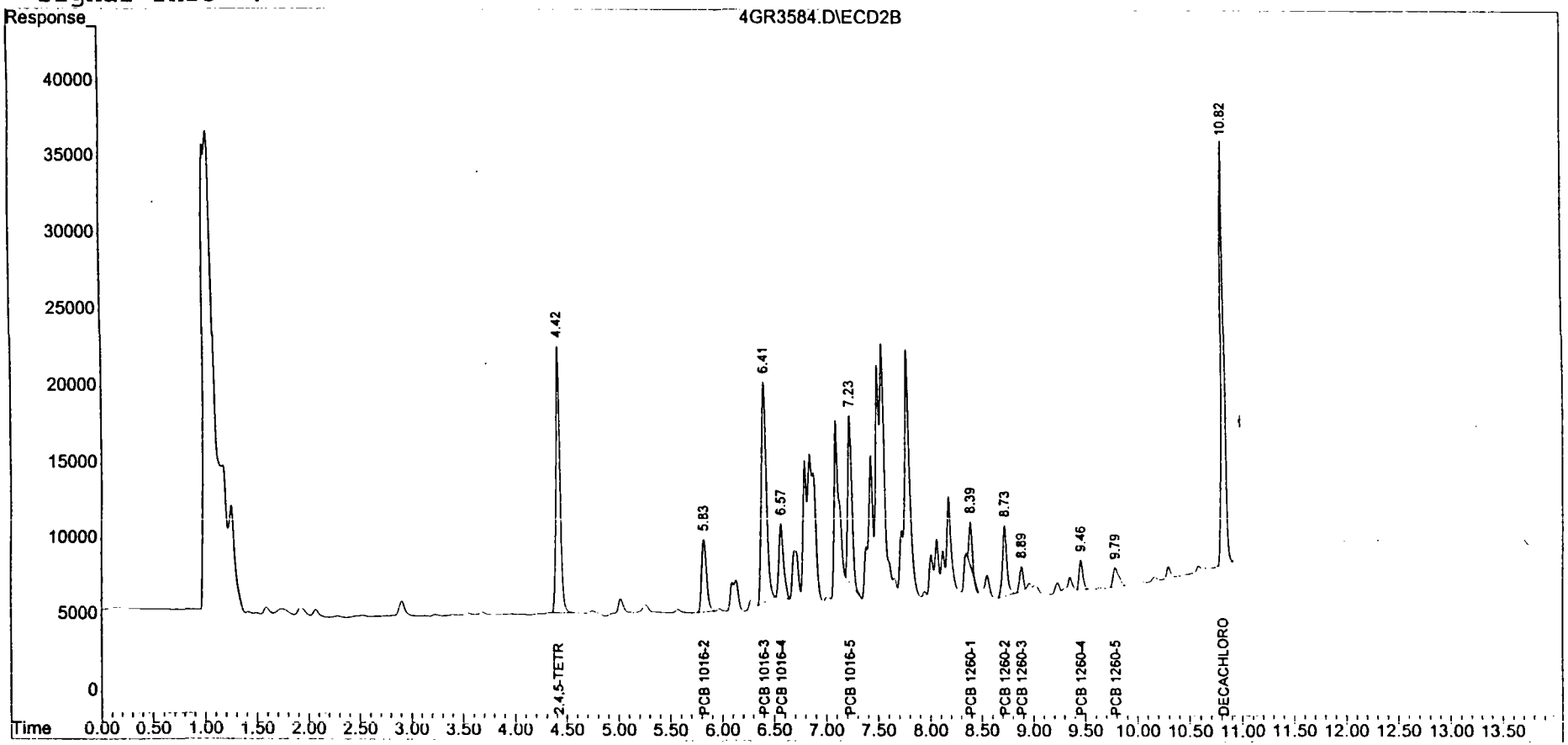
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.42	497346	12.366 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	61.83%
12) S DECACHLOROBIPHENYL	10.82	636913	15.109 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	75.55%
Target Compounds			
2) L1 PCB 1016-1	0.00	0	N.D. UG/L
3) L1 PCB 1016-2	5.83	158535	1.003 UG/L
4) L1 PCB 1016-3	6.41	492342	1.512 UG/L
5) L1 PCB 1016-4	6.57	152194	1.127 UG/L
6) L1 PCB 1016-5	7.23	300568	3.344 UG/L
Sum PCB 1016-1		1103639	6.986 UG/L
Average PCB 1016-1			1.747 UG/L
7) L2 PCB 1260-1	8.40f	56531	0.292 UG/L
8) L2 PCB 1260-2	8.73	135780	0.663 UG/L
9) L2 PCB 1260-3	8.89	39241	0.152 UG/L
10) L2 PCB 1260-4	9.46	48978	0.145 UG/L
11) L2 PCB 1260-5	9.79	47000	0.115 UG/L
Sum PCB 1260-1		327530	1.366 UG/L
Average PCB 1260-1			0.273 UG/L

f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\042800.SEC\4GR3584.D Vial: 76
Acq On : 28 Apr 2000 18:47 Operator: ECL
Sample : WG75921-03 LCS V137 P49 Inst : HP 4
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: May 1 15:23 2000 Quant Results File: 1660R.RES

Quant Method : C:\HPCHEM\2\METHODS\1660R.M (Chemstation Integrator)
Title : April 25, 2000
Last Update : Wed Apr 26 09:02:12 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Date 4/25/00 Column ID RTX-CLP II Analyst ECL SOP # GCS09 Rev. # 0 8081A
Instrument ID HP4 Data Subdirectory 042500.SEC SOP # GCS10 Rev. # 1 ✓ 8082
SOP # GCS01 Rev. # 0 8100 SOP # GCS02 Rev. # 0 8015B Mod (DRO) SOP # GCS04 Rev. # 2 8151
SOP # GCS03 Rev. # 0 PRO SOP # GCS02 Rev. # 0 8015B Mod (Alcohol) SOP # GCS07 Rev. # 0 8011

Daily Check	
gases >500 psi	✓
change liner	✓
change septum	✓
Preventative Maintenance	
change o-ring	
clip column (44 cm)	✓
injection port seal (goldseal)	
change gases	

Additional Maintenance

Problem:

Action Taken:

Returned to Control? Yes No Additional Discussion on Page

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
4GR 3459	PCB 1660 0.05 PPM	NA	8082	✓	SV 44-17
60	0.1				
61	0.25				
62	0.5				
63	1.0				
64	2.0				
65	Alt. ✓ 0.5 PPM				SV 44-44
66	PCB 1254 0.05 PPM				SV 46-35
67	0.1				
68	0.25				
69	0.5				
70	1.0				

Comments:

✓ Compliant Analysis, Reanalysis complete
RR Rerun
WDL Rerun at a specified Level

SMI = Sample matrix interference
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis

Reviewed By: CLK 4/26/00

IS or SS = Interference with internal and/or surrogate standards
CC = Continuing calibration failed

Semivolatile GC Laboratory Maintenance / Runlog

Date 4/25/00 Instrument ID HP 4 Data Subdirectory 042500.SEC Column ID RTX-CLP II

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
4GR 3471	PCB 1254 2.0 PPM	NA	8082	✓	
72	⊥ Alt. ✓ 0.5 PPM				SV 44-18
73	PCB 1248 0.5 PPM				SV 46-39
74	⊥ Alt. ✓ 0.5 PPM				SV 45-34
75	PCB 1242 0.5 PPM				SV 46-37
76	⊥ Alt. ✓ 0.5 PPM				SV 44-19
77	PCB 1232 0.5 PPM				SV 46-15
78	⊥ Alt. ✓ 0.5 PPM				SV 46-16
79	PCB 1221 0.5 PPM				SV 45-35
80	⊥ Alt. ✓ 0.5 PPM				SV 46-34
81	PCB 1248 ✓ 0.5 PPM			✓	
82	Instrument Blank			✓	
83	L0004376-01			✓	Confirmation only.
84	⊥ 02			✓	
85	PCB 1248 ✓ 0.5 PPM			✓	
86	PCB 1660 ✓ 0.5 PPM			✓	SV 44-17
87	L0004378-02				
88	⊥ 04				
89	Blank V136 P181 WG75639-02				
90	LCS ⊥ ⊥ -03				
91	L0004454-01 -01				
92	⊥ 01MS -04				
93	⊥ 01MSD ⊥ -05				
94	Blank V136 P177 WG75618-02				

Comments:

Reviewed By: CLK 4/26/00

✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified level

SMI = Sample matrix interference
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis

IS or SS = Interference with internal and/or surrogate standards
CC = Continuing calibration failed

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Date 4/28/00 Instrument ID HP4 Data Subdirectory 042800-SEC Column ID RTX-CLP II

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
HGR3571	L0004519-10	NA	8082	✓	
72	⊥ 11				
73	L0004529-05				
74	05MS WG75852-04				
75	05MSD ⊥ 05				
76	06				
77	14				
78	15				
79	20				
80	21				
81	PCB 1660 ✓ 0.5 PPM			✓	SV 44-17
82	PCB 1248 ✓ 0.5 PPM			✓	SV 46-39
83	Blank V137 P49 WG75921-02				
84	LCS ⊥ ⊥ ⊥ -03				
85	L0004550-01				
86	02				
87	03				
88	04				
89	05				
90	06				
91	07				
92	08				
93	PCB 1660 ✓ 0.5 PPM			✓	
94	PCB 1248 ✓ 0.5 PPM			✓	

Comments:

Reviewed By: SMW 05-01-00

✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified level

SMI = Sample matrix interference
MT = Missed Tune, beyound method tuning requirements
RE = Re-extraction analysis

I or SS = Interference with internal and/or surrogate standards
C = Continuing calibration failed

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Date 4/28/00 cont. Column ID RTX-CLP II Analyst ECL SOP # GCS09 Rev. # 0 ____ 8081A
Instrument ID HP 4 Data Subdirectory 042800-SEC SOP # GCS10 Rev. # 1 ✓ 8082
SOP # GCS01 Rev. # 0 ____ 8100 SOP # GCS02 Rev. # 0 ____ 8015B Mod (DRO) SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ____ PRO SOP # GCS02 Rev. # 0 ____ 8015B Mod (Alcohol) SOP # GCS07 Rev. # 0 ____ 8011

Daily Check	
gases >500 psi	
change liner	
change septum	
Preventative Maintenance	
change o-ring	
clip column (cm)	
injection port seal (goldseal)	
change gases	

Additional Maintenance

Problem:

Action Taken:

Returned to Control? Yes No Additional Discussion on Page

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
4GR3595	L0004550-09	NA	8082	✓	
96	10				
97	11				
98	12 DUP				
99	13 MS				
4GR3600	14 MSD				
01	16				
02	17				
03 ECS 5/1/00	18				
04 ~~05~~	PCB 1660 ✓ 0.5 PPM			✓	SV S 44-17
05	PCB 1248 ✓ 0.5 PPM			✓	SV 46-39
	ECS 5/1/00				

Comments:

✓ = Compliant Analysis. Reanalysis complete

SMI = Sample matrix interference

Reviewed By: SMW 05-01-00

IS or SS = Interference with internal and/or surrogate standards

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Date 5/2/00 Column ID RTX-CLP Analyst ECL SOP # GCS09 Rev. # 0 ___ 8081A
Instrument ID HP4 Data Subdirectory 050200 SOP # GCS10 Rev. # 1 ✓ 8082
SOP # GCS01 Rev. # 0 ___ 8100 SOP # GCS02 Rev. # 0 ___ 8015B Mod (DRO) SOP # GCS04 Rev. # 2 ___ 8151
SOP # GCS03 Rev. # 0 ___ PRO SOP # GCS02 Rev. # 0 ___ 8015B Mod (Alcohol) SOP # GCS07 Rev # 0 ___ 8011

Daily Check	
gases >500 psi	✓
change liner	
change septum	✓
Preventative Maintenance	
change o-ring	
clip column (cm)	
injection port seal (goldseal)	
change gases	

Additional Maintenance

Problem:

Action Taken:

Returned to Control? Yes No Additional Discussion on Page

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
4GF3878	PCB 1248 ✓ 0.5 PPM	NA	8082	✓	SV 46-39
79	Instrument Blank				
80	L0004530-07				
81	⊥ 08				
82	PCB 1248 ✓ 0.5 PPM				
83	~~L0005~~ L0004550-11				Confirmations
84	EC 5/3/00 ⊥ 12 pup				
85	PCB 1248 ✓ 0.5 PPM				
	EC 5/3/00				

Comments

Reviewed By: SMN 5-2-00

✓ = Compliant Analysis, Reanalysis complete SMI = Sample matrix interference IS or SS = Interference with internal and/or surrogate standards

RR = Re

Sample Extract Log Sheet

Parameter: PCB-H2O SOP #: EXP01 Revision #: 8
Ext Analyst(s): CAG, JDN, BCK TV/KD Analyst(s): WB
Date/Time Ext: 04/28/00@1000 Date TV/KD: 04/28/00
Spike/Surrogate Analyst: CAG Witness: JDN
Extract Relinquished By:
Extract Received By: [signature] Date Ext. Received: 4/28/00

SW-846 Method			On	Off	On	Off
Continuous L-L	3520C					
Soxhlet	3540C					
ASE*	3545					
Separatory Funnel	3510C	✓				
Sonication	3550B					
Waste	3580A					

Extraction Work Group WG 75921
Analytical Work Group WG 75962

	Client ID	Sample ID	pH <2	pH N	pH >12	Test Code	Initial Vol. / Wt	Amount Surrogated	Amount Spike	Final Volume	Emulsion A	Emulsion BN	Emulsion N	Comments
1		Blank		✓			1L	200 ul ESS-0032-04		10mL				WG 75921-02
2		LCS		✓					100 ul ESS-0030-25					WG 75921-03
3	OUTBOARD	04-550-01		✓		8082								
4		-02		✓										
5		-03		✓										
6		-04		✓			930mL							
7		-05		✓			910mL							
8		-06		✓										
9		-07		✓										
10		-08		✓			810mL							
11		-09		✓			940mL							
12		-10		✓			930mL							
13		-11		✓			900mL							
14		-12 DUP		✓			900mL							
15		-13MS		✓			885mL		100ul ESS-0030-25					WG 75921-04
16		-14MSD		✓			910mL							WG 75921-05
17		-16		✓			960mL							
18		-17		✓			915mL							
19		-18		✓			900mL							
20														
21														
22														
23														
24														

WB 4/28/00

Reviewed By: [signature] Date: 04/28/00

* Accelerated Solvent Extractor (ASE)

2b

SAMPLING FIELD LOG

LABORATORY NOTEBOOK

OMC

m Page No: SPRING 2000 HARBOR CELL SAMPLING

PERSONNEL: TIME: 0820 DATE: 4/25/2000

DAVE WESNER

JOE GEIGER

WEATHER

TEMP 44°F

WIND N @ 10 mph

ACTIVITIES: CONDUCT GROUNDWATER SAMPLING OF HARBOR PROJECT WELLS SEMI ANNUAL - SPRING 2000

CALIBRATION

PH - STANDARD	CAL
7	7.01
10	10.04

TURBIDITY

0.00	0.00

SAMPLING OF 3 CELLS BEGINNING WITH SLIP 3, WEST, AND EAST.

SAMPLES SHIPPED TO KEMRON ENVTL SERVICES MARIETTA, OHIO

ssed & Understood by me, | Date | Invented by | Date

rom Page No.__

SLIP #3

SET UP ON W-1 @ 0817
SAMPLED AT 0930

WATER LEVEL
W1 4.38
P1 15.70
FT TO BOTTOM 9.85
WELL VOLUME(G) 0.9

GAL REMOVED	TEMP	CONDUCTIVITY	PH	TURBIDITY
5	53.2	1.93	5.4	1.47
10	50.7	1.80	5.6	1.50
15	50.6	1.80	6.0	0.71
20	50.4	1.82	6.1	0.69
25	50.4	1.84	6.3	0.80

W-2

SET UP AT 0900
SAMPLED AT 0910

WATER LEVEL
W2 4.80
P2 16.31
FEET TO BOTTOM 19.86
WELL VOLUME(G) 2.5

GAL REMOVED	TEMP	CONDUCTIVITY	PH	TURBIDITY
5	52.7	2.3	6.4	86.4
10	53.2	2.4	6.2	48.3
15	53.3	2.5	6.3	39.0
20	53.0	2.5	6.3	27.4

To Page No.__

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ITLE _____ Book No. _____

From Page No. ___

W-3

SET UP AT 0920

SAMPLED at 0940

Water Level

WL 3.80

PT 17.04

Feet to Bottom 24.14

Well Volume (G) 3.3

Gal Removed	Temp	Conductivity	pH	Turbidity
5	56.3	1.88	6.3	20.9
10	55.9	1.84	6.4	8.6
15	53.8	1.87	6.3	5.7
20	54.3	1.81	6.4	5.2

W-4

Set up at 0950

Sampled at 1015

Water Level

WL 2.07

PT 16.75

Feet to Bottom 17.89

Well Volume (G) 2.5

Gal Removed	Temp	Conductivity	pH	Turbidity
5	55.7	1.75	6.50	5.6
10	54.6	1.44	6.39	9.2
15	54.4	1.71	6.41	8.7
20	54.5	1.69	6.44	9.5

To Page

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From Page No.__

EAST

W-5

Set up at 1345
Sampled at 1400

Water Level
W5 6.87
P5 14.20
Feet to Bottom 29.36
Well Volume (G) 3.6

Gal Removed	Temp	Conductivity	pH	Turbidity
5	61.2	1.05	7.2	8.4
10	59.2	1.04	6.94	6.8
15	57.0	1.01	6.84	6.3
20	56.1	1.02	6.6	4.6

W-6

Set up at 1450
Sampled at 1455

Water Level
W-6 6.65
P-6 14.15
Feet to Bottom 30.70
Well Volume (G) 3.9

Gal Removed	Temp	Conductivity	pH	Turbidity
	~~59.5~~	~~2.71~~	~~7.08~~	
5	59.5	2.71	7.08	3.55
10	57.8	2.66	6.23	2.29
15	57.0	2.69	6.13	2.13
20	56.2	2.69	6.13	1.74

To Page No

Witnessed & Understood by me, | Date | Invented by | Date

Recorded by

TITLE _____ Book No. _____

From Page No. ___

W-7

Set up at 1430
Sampled at 1440

Water Level
W7 5.30
P7 13.00
Feet to Bottom 25.42
Well Volume (G) 3.3

Gal Removed	Temp		Conductivity		pH		Turbidity	
5	56.8	61.7	1.07	1.18	7.2	7.4	8.53	6.24
10	55.1	58.8	1.04	1.10	6.9	7.2	4.53	7.02
15	54.6	57.6	1.02	1.14	6.8	7.1	3.74	6.18
20	54.2	57.2	1.01	1.08	6.7	7.0	3.04	5.18
	NV		NV		NV		NV	

W-8

Set up at 1410
Sampled at 1420

Water Level
W8 6.35
P8 14.10
Feet to Bottom 28.74
Well Volume (G) 3.6

Gal Removed	Temp	Conductivity	pH	Turbidity
5	56.8	1.07	7.2	8.53
10	55.1	1.04	6.9	4.53
15	54.6	1.02	6.8	3.74
20	54.2	1.01	6.7	3.04

To Page N

Witnessed & Understood by me, | Date | Invented by | Date

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WEST

W-11

Set up at 1225

Sampled at 1240

Water Level

W11	~~5.51~~	5.62
P11	~~11.25~~	11.97
Feet to Bottom	~~26.81~~	27.18
Well Volume (G)	3.5	3.5

Gal Removed	Temp	Conductivity	pH	Turbidity
5	63.3	1.92	6.6	6.38
10	60.9	1.89	6.4	5.24
15	59.5	1.82	6.5	4.17
20	60.1	1.96	6.6	2.89

W-10

Set up at 1135

Sampled at 1145

Water Level

W10	4.20
P10	11.33
Feet to Bottom	25.08
Well Volume (G)	3.4

Gal Removed	Temp	Conductivity	pH	Turbidity
5	58.4	1.87	6.6	24.50
10	57.0	1.82	6.3	14.04
15	56.4	1.81	6.1	10.16
20	55.9	1.82	6.2	7.71
25	55.5	1.78	6.1	6.41

To Page No.__

Witnessed & Understood by me,	Date	Invented by	Date
		Recorded by	

TLE _____ Book No. _____

From Page No. ___

W-9

Set up at 1305

Sampled at 1315

Water Level

W9 ~~5.62~~ 5.51

P9 ~~11.97~~ 11.25

Feet to Bottom ~~27.18~~ 26.81

Well Volume (G) 3.5

Gal Recovered	Temp	Conductivity	pH	Turbidity
5	63.4	1.56	6.8	2.01
10	59.9	1.50	6.6	1.48
15	58.9	1.74	6.5	1.38
20	57.1	1.67	6.5	1.40

W-12

Set up at 1250

Sampled at 1300

Water Level

W12 5.25

P12 10.00

Feet to Bottom 28.42

Well Volume (G) 3.7

Gal Recovered	Temp	Conductivity	pH	Turbidity
5	60.4	1.28	6.7	3.16
10	58.7	1.25	6.7	2.14
15	56.7	1.21	6.7	1.97
20	57.8	1.21	6.7	1.74

To Page N

Witnessed & Understood by me, | Date | Invented by | Date

Recorded by

ATTACHMENT 3

BCM ENGINEERS
A Division of ATC

920 Germantown Pike, Suite 200
Plymouth Meeting, Pennsylvania 19462
www.atc-enviro.com
610.313.3100
Fax 610.313.3151

May 31, 2000

TO: Anthony M. Montemurro, CHMM
OMC Environmental Affairs
190 Seahorse Drive
Waukegan, Illinois 60085

RECEIVED
JUN 5 2000
A.M. MONTEMURRO

FROM: Mark Traxler, CPC, CQA MT
Senior Quality Assurance Scientist
BCM Engineers
920 Germantown Pike, Suite 200
Plymouth Meeting, Pennsylvania 19462

SUBJECT: PCB Data Review
April 25, 2000 Groundwater Sampling Event
Waukegan Harbor Superfund Site

INTRODUCTION

A data review of the first half, 2000 polychlorinated biphenyls (PCBs) groundwater sampling data package that was prepared for the April 25, 2000 sampling event has been performed. The data package consisted of 12 groundwater samples, 2 field duplicates, 1 matrix spike (MS), 1 matrix spike duplicate (MSD), and 1 field blank that were analyzed for PCBs following SW-846 Method 8082. Method 8082 is an Update III method, which was promulgated by EPA in 1997 and designed specifically for PCBs. The samples were analyzed by Kemron Environmental Services (Kemron), located in Marietta, Ohio under Kemron project Order Number L0004550. The data package contained raw instrument data for the initial and continuing calibration standards; field and quality control (QC) samples; tabulated calibration results; and tabulated MS/MSD and surrogate spike results. The data package was in good condition, containing all of the required deliverables, as defined by the project-specific Quality Assurance Project Plan (QAPjP) for the Operation and Maintenance Plan.

REVIEW

The samples were collected by Mr. David R. Wesner on April 25, 2000 and shipped under three chain-of-custodies in four shipment coolers containing the samples (identified as Batch L0004550). The samples collected on April 25 were stored in an onsite locked refrigerator maintained at 4 degrees Celsius (°C) overnight and were shipped on April 26 overnight on ice to the laboratory by Federal Express, received with custody seals intact, and logged into their

computer system on April 27. Cooler temperatures were recorded at 3, 2, 1, and 2 °C, which are acceptable. Method 8082 recommends preservation at 4 (± 2)°C.

All samples were analyzed within the analytical holding times for aqueous samples for PCBs of 7 days from sample collection to sample extraction and 40 days from extraction to laboratory analysis. The aqueous PCB samples were extracted following SW-846 Method 3510 and were analyzed by Gas Chromatography/Electron Capture Detector (GC/ECD) following SW-846 Method 8082

All initial and continuing calibrations were within the method acceptance criteria. The CLP-II ("B") column on GC instrument HP4 was used to report all Order L0004550 sample data. Positive results were not confirmed on a second column since the analytes of interest are known from historical data. Method 8082 allows historical data to be used as confirmation of an analyte.

The laboratory identified and reported Aroclor-1248 in samples W-10 and W-10D, based on the best match to their Aroclor calibration standards. The total PCBs for W-10 and W-10D from this sampling event were reported as 1.7 and 1.9 micrograms per liter (µg/L), respectively.

Sample W-5F was collected as a field rinse blank. The rinse blank and the laboratory method blank were found to contain no reportable PCBs, and are acceptable without qualification.

Surrogate spike recoveries were within the project-specific acceptance criteria (50-150% for at least one of the two surrogate spike compounds) for all samples, except sample W-5 (48.0, 44.6%). The low surrogate recoveries for W-5 caused the non-detected Aroclor results for this sample to be qualified as estimated values.

Kemron's laboratory acceptance criteria for surrogate spike recoveries are lower than the project-specific acceptance criteria, at 25-140% for decachlorobiphenyl (DCB) and 13-154% for tetra-chloro-meta-xylene (TCMX). These criteria have remained the same over the past four years and three methods (8080, 8081, 8082), even after requests during the last several sampling events to update the criteria. It is the data validator's judgment that this criteria is invalid and that the laboratory should provide current, statistically derived data for their internal acceptance criteria for this project.

The laboratory control sample (LCS) percent recovery for Aroclor-1248 (96.0%R) was within the laboratory acceptance criteria of 34-116%. The MS/MSD percent recoveries for Aroclor-1248 (W-10MS/W-10MSD, 113% & 113%R) were within the project-specific acceptance criteria of 50-150%. The RPD for the MS/MSD results (0.0%) was within the project-specific acceptance criteria of 35%.

Two field duplicates were collected with the groundwater samples and submitted to Kemron for analysis. These samples were collected for quality assurance/quality control (QA/QC) purposes in accordance with the proposed QAPjP guidelines. Field duplicates W-12/W-12D (ND 0.5/ND 0.5 µg/L, 0% RPD) and W-10/W-10D (1.7/1.9 µg/L Aroclor-1248, 11% RPD) are within the project-specific acceptance criteria of 35%.

This data validation report covers the first half, 2000 groundwater sampling data package. All project-specific QA/QC criteria have been met with the exception of surrogate recoveries for sample W-5, as identified and discussed above. If you have any questions regarding this data review, please contact me at (610) 313-3100 x218.