m60050

Pacific Analytical, Inc.

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NARRATIVE REPORT

Pacific Analytical 02/20/92

P A Reference: 103

Hadley Industries

Samples:

INFLUENT, BETWEEN, EFFLUENT, PS#1, PS#3, PS#4

Comments:

The above samples were analyzed by the CLP Volatiles method. Recoveries of the system monitoring compounds, internal standard areas and retention times were all within the specified limits for this type of analysis. No matrix spike or matrix spike duplicate was performed.

Elana Colby

Elana Colby

Senior Chemist

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	SMC1 (TOL)#	SMC2 (BFB)#	SMC3 (DCE)#	OTHER	TOT OUT
01	VBLK5	103	102	88		0
02	INFLUENT	104	102	94		0
03	BETWEEN	105	100	101		0
04	EFFLUENT	104	112	80		0
05	PS#1	105	108	88		0
06	PS#3	107	94	89		0
07	PS#4	103	112	87		0
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	QC LIMITS
SMC1 (TOL) = Toluene-d8	(88-110)
SMC2 (BFB) = Bromofluorobenzene	(86-115)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM II VOA-1 3/90 Rev.

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK5

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

Lab File ID: ZZ1071 Lab Sample ID: 00000

Date Analyzed: 02/12/92 Time Analyzed: 1527

GC Column: 1%SP1000 ID: 2 (mm) Heated Purge: (Y/N) N

Instrument ID: VG#2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	BETWEEN	10302	ZZ1091	1728
02	EFFLUENT	10303	ZZ1101	1819
03	INFLUENT	10301	ZZ1081	1638
04	PS#1	10304	ZZ1111	1910
05	PS#3	10305	ZZ1121	2000
06	PS#4	10306	ZZ1131	2051
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COMMENTS:

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

Lab File ID: BFB1011 BFB Injection Date: 02/12/92

Instrument ID: VG#2 BFB Injection Time: 0925

GC Column: 1%SP1000 ID: 2 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	18.4
75	30.0 - 66.0% of mass 95	49.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	65.0
175	4.0 - 9.0% of mass 174	4.1 (6.3)1
176	93.0 - 101.0% of mass 174	61.3 (94.6)1
177	5.0 - 9.0% of mass 176	3.9 (6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATA ANALYZED	TIME ANALYZED
01	VSTD200	00200	ZZ1011	02/12/92	1011
02	VSTD100	00100	ZZ1021	02/12/92	1103
03	VSTD050	00050	ZZ1031	02/12/92	1151
04	VSTD020	00020	ZZ1041	02/12/92	1240
05	VSTS010	00010	ZZ1051	02/12/92	1328
06					
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5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

Lab File ID: BFB1011 BFB Injection Date: 02/12/92

Instrument ID: VG#2 BFB Injection Time: 0925

GC Column: 1%SP1000 ID: 2 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	18.4
75	30.0 - 66.0% of mass 95	49.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	65.0
175	4.0 - 9.0% of mass 174	4.1 (6.3)1
176	93.0 - 101.0% of mass 174	61.5 (94.6)1
177	5.0 - 9.0% of mass 176	3.9 (6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATA ANALYZED	TIME ANALYZED
01	VTSD050	00050	ZZ1061	02/12/92	1416
02	VBLK5	00000	ZZ1071	02/12/92	1527
03	INFLUENT	10301	ZZ1081	02/12/92	1638
04	BETWEEN	10302	ZZ1091	02/12/92	1728
05	EFFLUENT	10303	ZZ1101	02/12/92	1819
06	PS#1	10304	ZZ1111	02/12/92	1910
07	PS#3	10305	ZZ1121	02/12/92	2000
08	PS#4	10306	ZZ1131	02/12/92	2051
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8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

Lab File ID (Standard): ZZ1061 Date Analyzed: 02/12/92

Instrument ID: VG#2 Time Analyzed: 1416

GC Column: 1%SP1000 ID: 2 (mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	7506000	11.35	48747001	22.28	42992001	27.72
	UPPER LIMIT	15012000	11.85	97494002	22.78	85984001	28.22
	LOWER LIMIT	3753000	10.85	24373500	21.78	21496000	27.22
	EPA SAMPLE NO.						
01	VBLK5	8679000	11.30	47412001	22.28	38642001	27.78
02	INFLUENT	8680000	11.28	50149001	22.28	41780001	27.77
03	BETWEEN	9294000	11.32	54347001	22.27	44533001	27.75
04	EFFLUENT	10453000	11.32	53507001	22.27	42738001	27.75
05	PS#1	9879000	11.33	53462001	22.27	41782001	27.77
06	PS#3	9625000	11.28	48164001	22.28	37433001	27.77
07	PS#4	10202000	11.28	53552001	22.23	46830001	27.78
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IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

page _1 of _1

FORM VIII VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

INFLUENT

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 10301

Sample wt/vol: 5.0(g/mL) ML Lab File ID: ZZ1081

Level: (low/med) LOW Date Received: 02/06/92

% Moisture: not dec. 0 Date Analyzed: 02/12/92

GC Column: 1%SP1000 ID: 2 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	8	J
67-64-1	Acetone	5	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-35-3	1,1-Dichloroethane	10	U
156-60-5	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	68	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
591-78-6	4-Methyl-2-Pentanone	10	U
108-10-1	2-Hexanone	10	U
127-18-4	Tetrachloroethene	37	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

INFLUENT

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 10301

Sample wt/vol: 5.0(g/mL) ML Lab File ID: ZZ1081

Level: (low/med) LOW Date Received: 02/06/92

% Moisture: not dec. 0 Date Analyzed: 02/12/92

GC Column: 1%SP1000 ID: 2(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg)ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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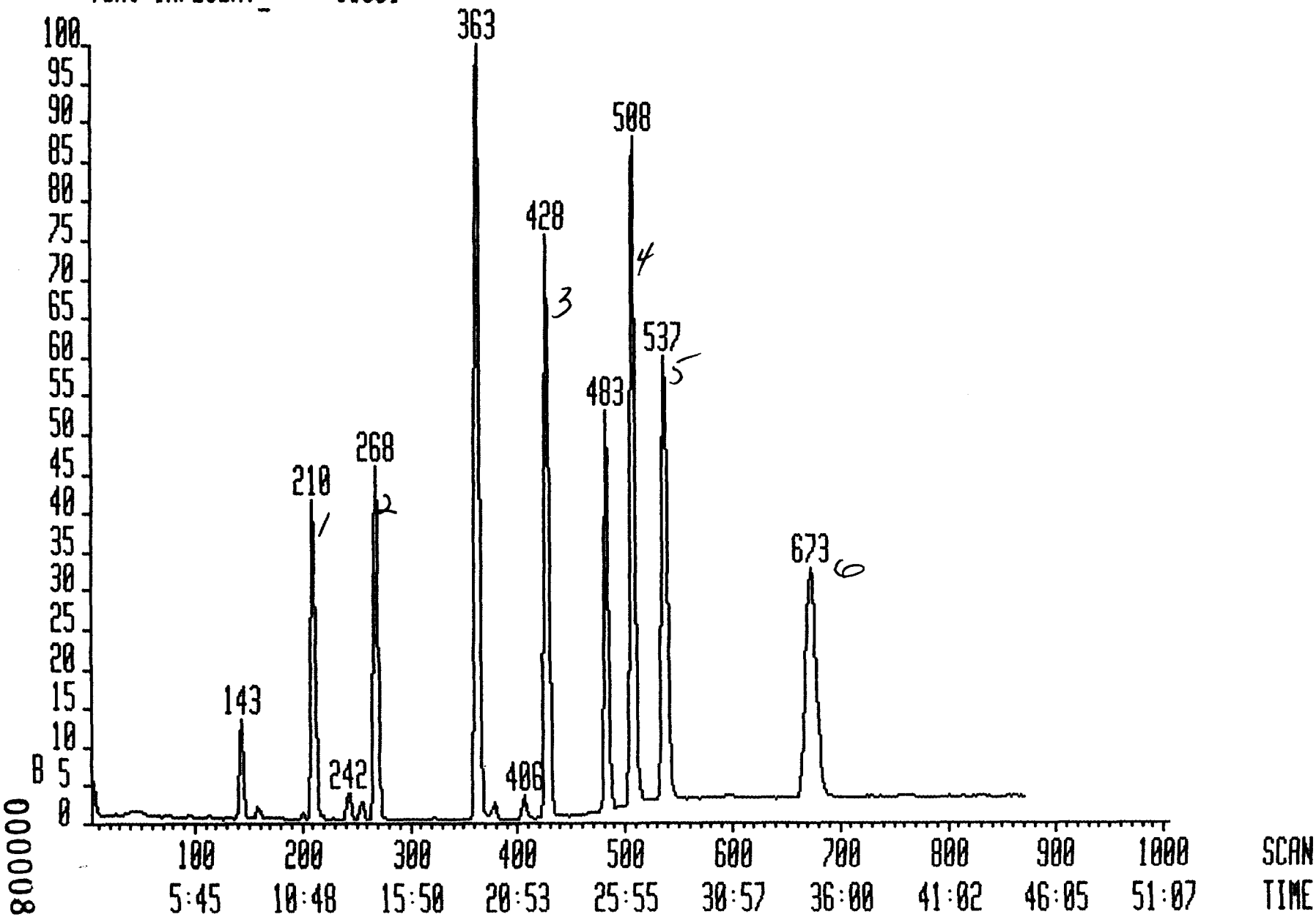
ZZ1081 #5-870 12-FEB-92 16:38 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 41227000

Text:INFLUENT_ 10301



000008

Interim Report Sample Analysis 13-FEB-92 03:56:14

Datafile: ZZ1081 12-FEB-92 16:38
Database: VOA91S
Library: VOA91

Instrument: VG#2
Account:
Text: INFLUENT_ 10301

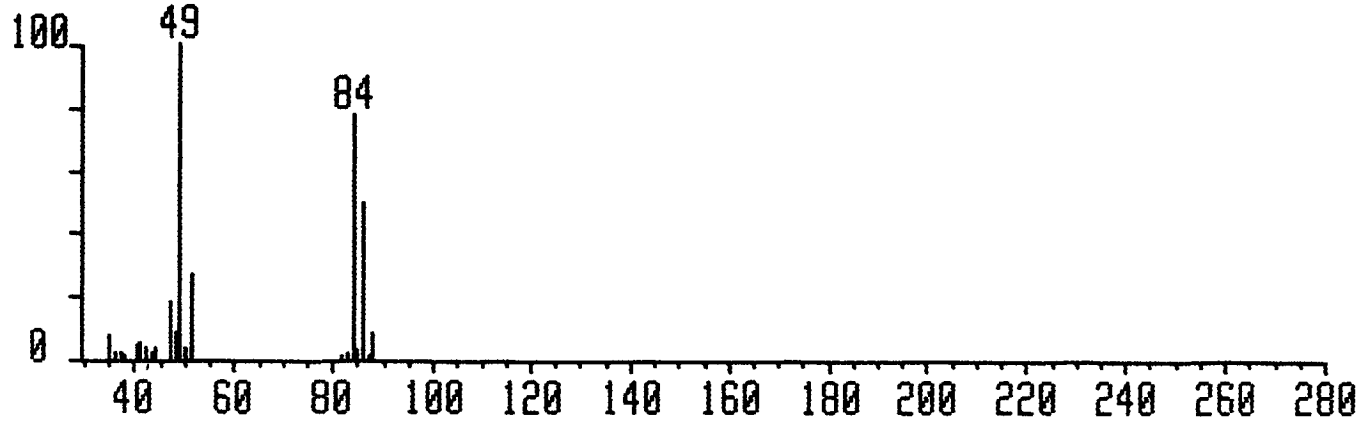
QRE 2/13/92

No.	Rank	Spectrum Match	Scan Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	100	92	99	-1	8680000	bb	210	211	128	Bromochloromethane
2	99	88	99	1	26404000	bv	268	267	65	1,2-Dichloroethane-d4
3	42	5	74	0	31000	bb	25	25	50	Chloromethane
4	---------- No Trace Found ----------							54	94	Bromomethane
5	---------- No Trace Found ----------							73	62	Vinyl Chloride
6	---------- No Trace Found ----------							97	64	Chloroethane
7	98	86	98	0	4844000	bb	143	143	84	Methylene Chloride
8	84	62	99	-2	1614000	bv	159	161	43	Acetone
9	50	24	73	3	79000	bb	177	174	76	Carbon Disulfide
	25	11	40	6	11000	bb	180			
	22	11	34	8	3000	?b	182			
10	86	62	99	0	208000	bb	201	201	96	1,1-Dichloroethene
11	70	39	91	0	231000	bb	228	228	63	1,1-Dichloroethane
12	98	85	99	0	1272000	bb	242	242	96	1,2-Dichloroethene (to
13	96	83	99	1	1549000	bb	255	254	83	Chloroform
14	26	17	31	0	125000	bb	270	270	62	1,2-Dichloroethane
15	43	6	84	-8	10000	bb	262	270	43	2-Butanone
	36	3	84	-18	11000	bb	252			
16	80	55	98	2	50149000	bv*	428	426	114	1,4-Difluorobenzene
17	52	23	75	0	80000	bb	298	298	97	1,1,1-Trichloroethane
18	44	16	67	0	55000	bb	307	307	117	Carbon Tetrachloride
	19	0	37	3	2000	bb	310			
	18	0	37	-7	2000	bb	300			
19	---------- No Trace Found ----------							288	1	
20	24	3	43	1	21000	bb	317	316	83	Bromodichloromethane
21	23	6	37	0	23000	bb	346	346	63	1,2-Dichloropropane
	19	2	44	17	66000	bb	363			
22	40	10	65	0	24000	bb	351	351	75	cis-1,3-Dichloropropen
	15	0	36	-16	3000	bb	335			
23	95	79	99	0	30983000	bb	362	362	130	Trichloroethene
24	19	0	37	2	3000	bb	378	376	129	Dibromochloromethane
	16	1	34	-13	38000	bb	363			
25	84	67	93	1	768000	vb	379	378	97	1,1,2-Trichloroethane
26	21	7	33	1	220000	bb	374	373	78	Benzene
27	18	0	37	8	3000	bb	386	378	75	trans-1,3-dichloroprop
28	---------- No Trace Found ----------							372	1	
29	6	0	12	2	1000	bb	435	433	173	Bromoform
30	89	70	98	1	41780000	bv	537	536	117	Chlorobenzene-d5
31	83	60	98	-1	30385340	bv	673	674	95	4-Bromofluorobenzene
32	81	59	95	-1	59063000	bb	508	509	98	Toluene-d8
33	57	26	81	0	36839	??	446	446	43	4-Methyl-2-Pentanone
	55	27	81	4	6545	??	450			
	53	26	82	6	2743	??	452			
34	59	31	81	-1	0	??	477	478	43	2-Hexanone
	51	30	79	-9	7300	??	469			
	50	28	82	11	17400	??	489			
35	94	81	98	-1	11090000	bb	483	484	164	Tetrachloroethene
36	41	0	78	-1	278000	bb	482	483	83	1,1,2,2-Tetrachloroeth
	41	0	77	1	278000	bb	484			
	20	0	44	10	4000	bb	493			

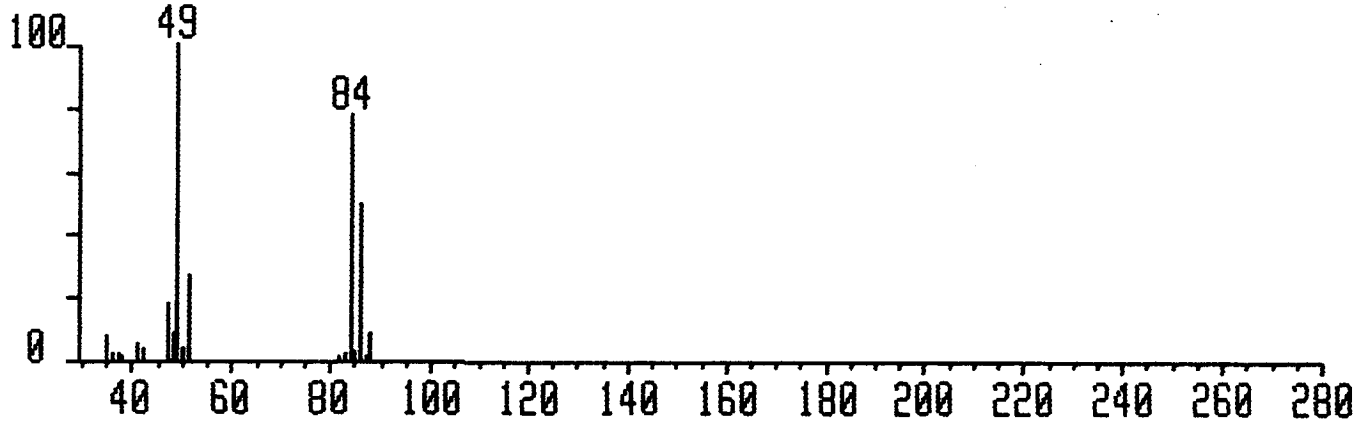
000009

	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
37	51	7	90	-1	473000	bb	512	513	91	Toluene 221081
38	39	2	71	-1	188000	bb	541	542	112	Chlorobenzene
	18	0	39	12	5000	bb	554			
39	40	7	67	0	53000	bb	598	598	106	Ethylbenzene
	28	4	51	-4	8000	bb	594			
40	10	1	18	2	10000	?b	722	720	104	Styrene
	9	1	17	-3	19000	b?	717			
	7	0	13	0	41000	?b	720			
41	33	6	57	-1	35000	bb	728	729	106	m-Xylene
	23	3	42	-3	10000	bb	726			
42	37	7	63	0	121000	?b	759	759	106	o-/p-Xylene
	31	6	54	-3	61000	b?	756			
43	---------- No Trace Found ----------							0	-	

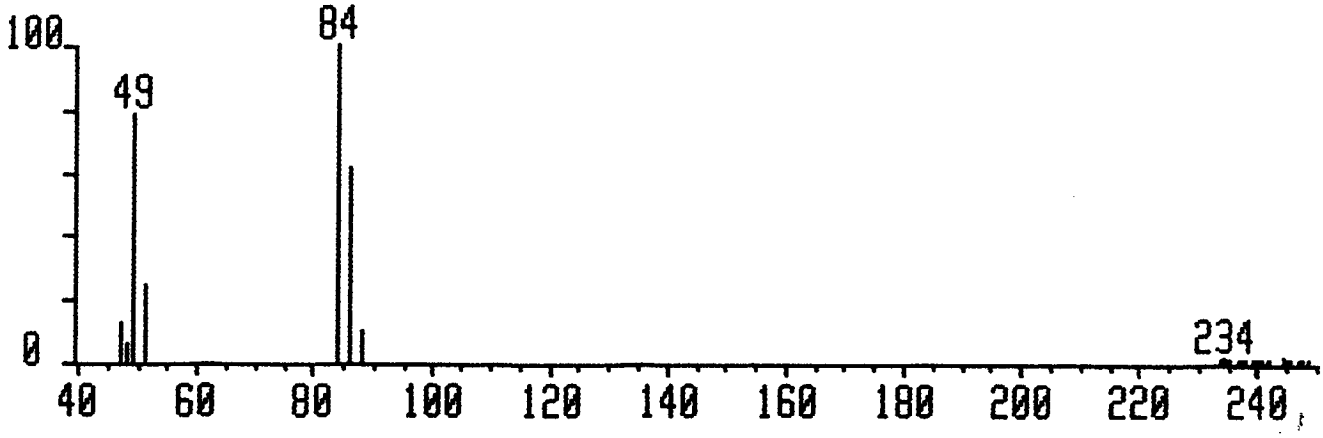
ZZ1081#143 x1 Bgd=1 12-FEB-92 16:38+0:07:55 EI+
I=260mv TIC=5534000 Acnt:
Text:INFLUENT_10301_Methylene Chloride



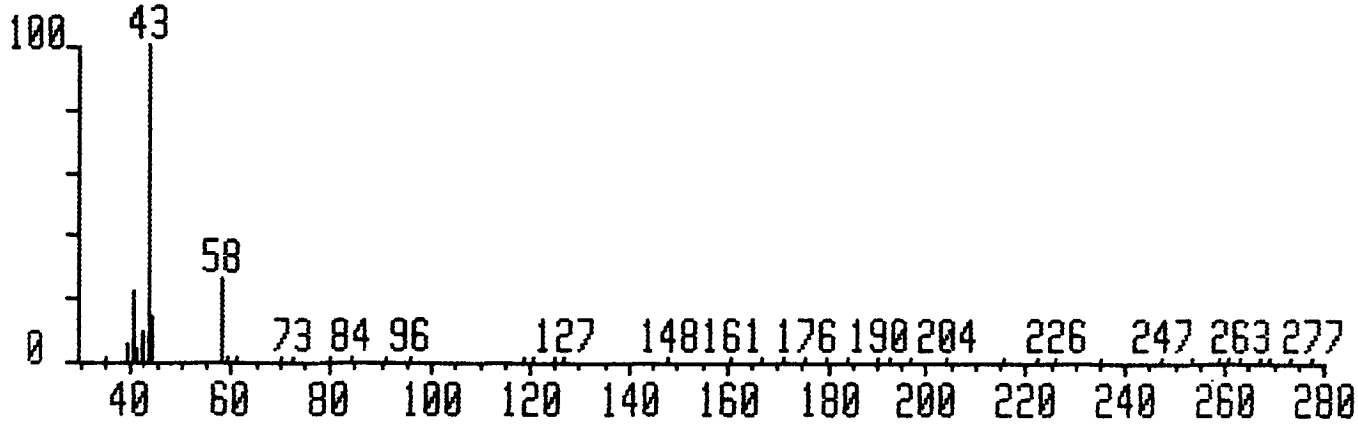
ZZ1081S#143 x1 Bgd=138 12-FEB-92 16:38+0:07:55 EI+
I=260mv TIC=5391000 SU Acnt:
Text:INFLUENT_10301_Methylene Chloride



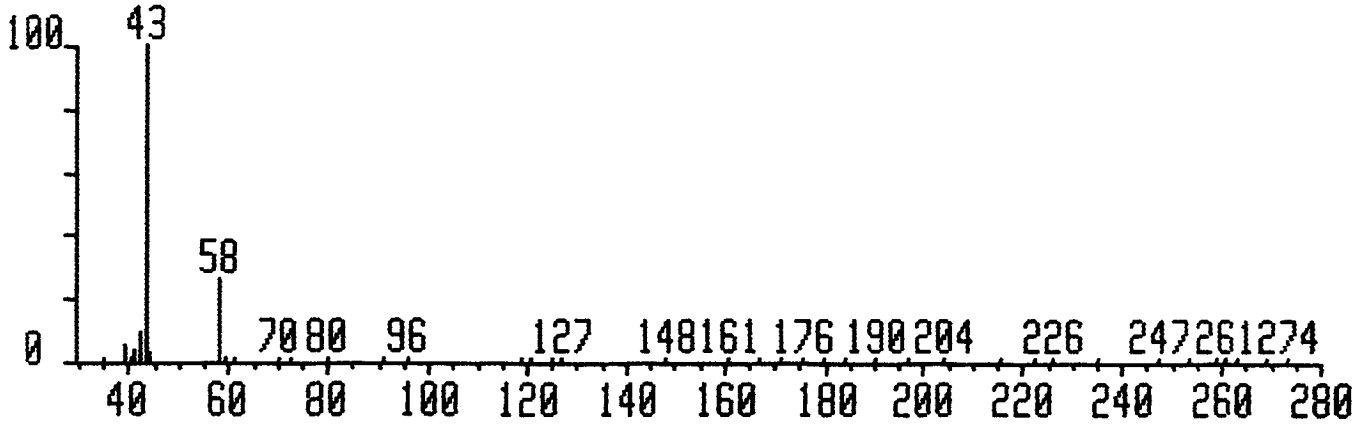
V8240#7 x1 Bgd=1 1-DEC-89 13:03+0:00:23 EI+
I=234mv TIC=10910000 Acnt:VG#2
Text:Methylene Chloride



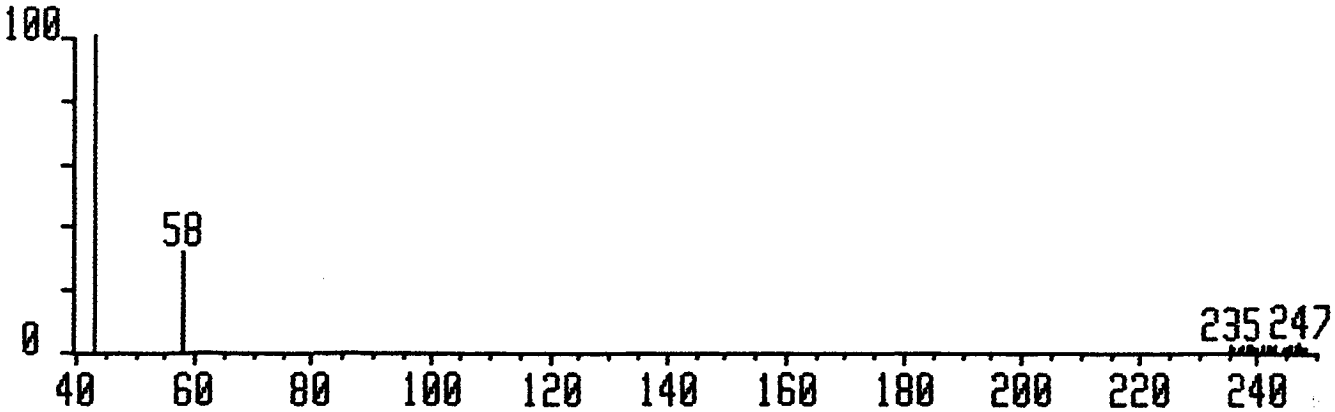
ZZ1081#159 x1 Bgd=1 12-FEB-92 16:38+0:08:43 EI+
I=55mv TIC=732000 Acnt:
Text:INFLUENT_10301_Acetone



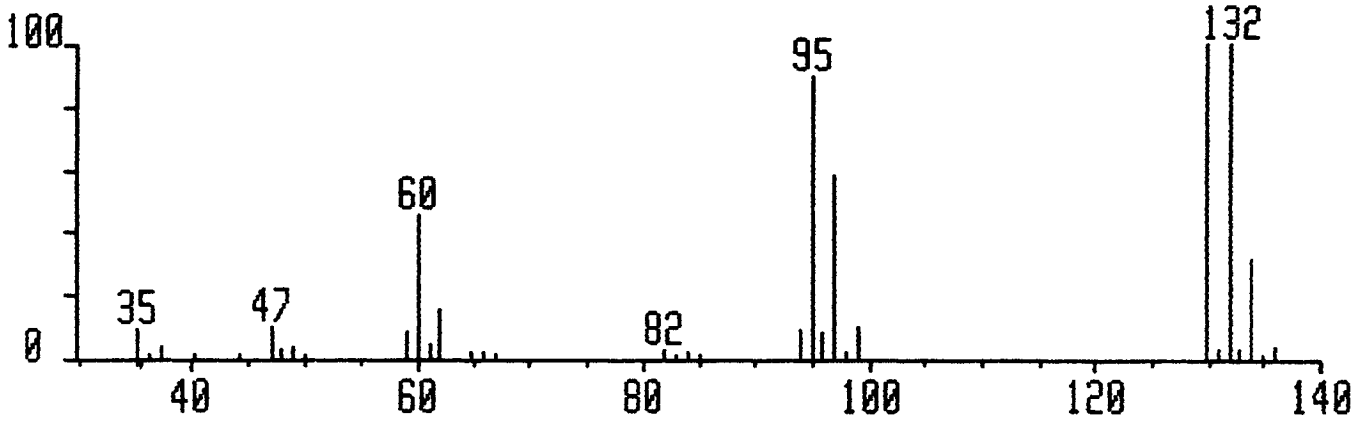
ZZ1081S#159 x1 Bgd=153 12-FEB-92 16:38+0:08:43 EI+
I=55mv TIC=603000 SU Acnt:
Text:INFLUENT_10301_Acetone



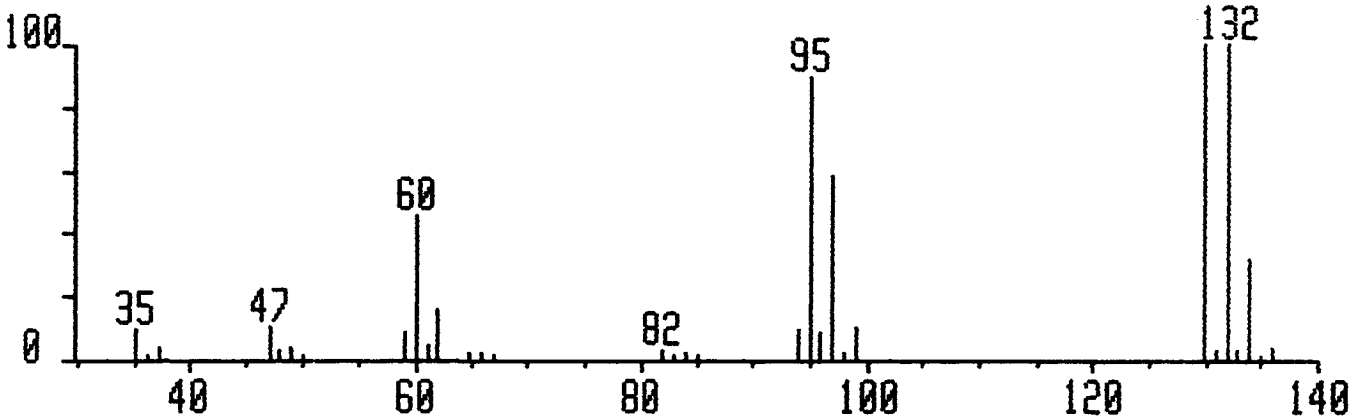
V8240#8 x1 Bgd=1 1-DEC-89 13:03+0:00:26 EI+
I=226mv TIC=11124000 Acnt:VG#2
Text:Acetone



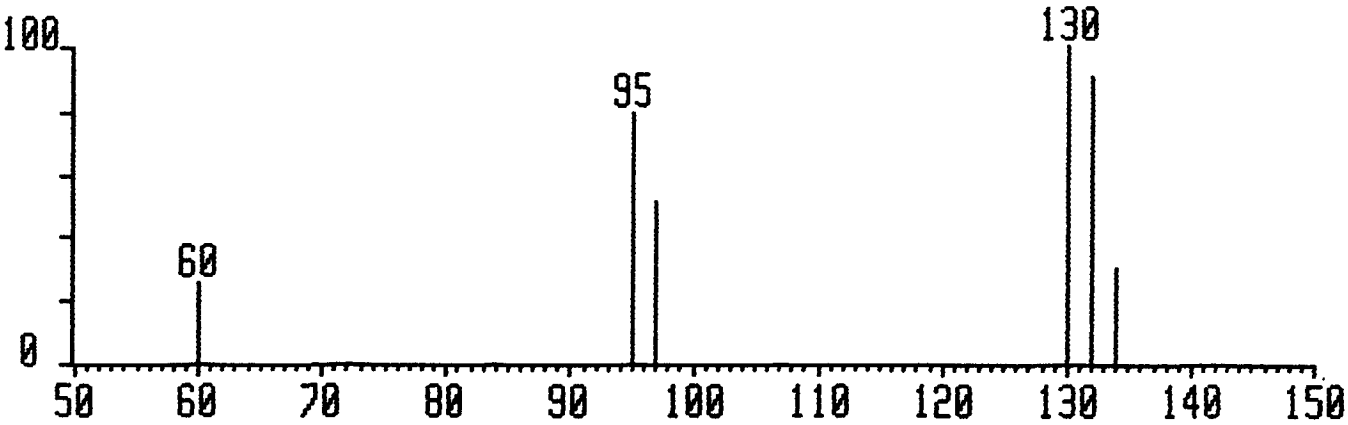
ZZ1081#362 x1 Bgd=354 12-FEB-92 16:38+0:18:57 EI+
I=1.1v TIC=38852000 Acnt:
Text:INFLUENT_10301_TrichLoroethene



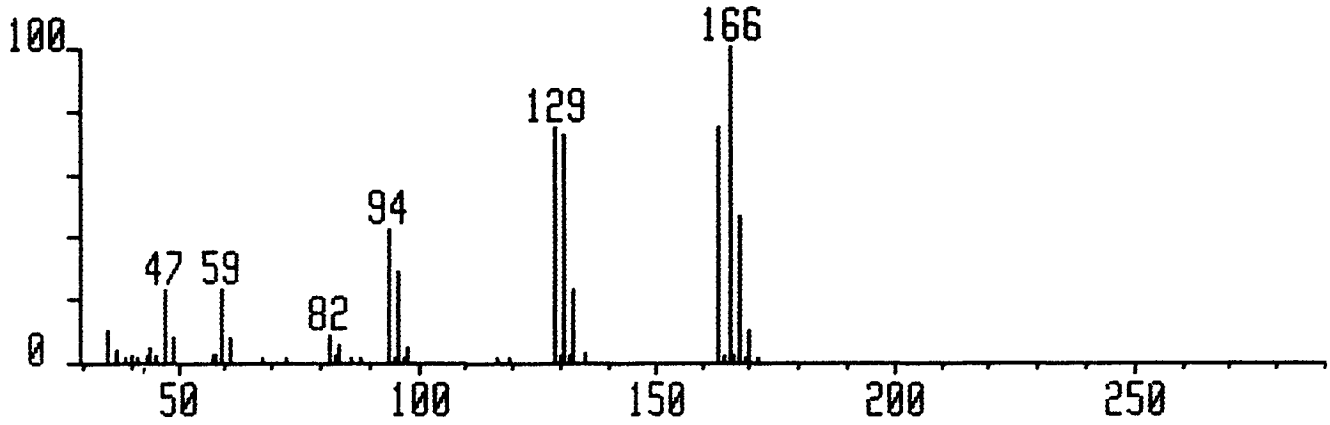
ZZ1081S#362 x1 Bgd=356 12-FEB-92 16:38+0:18:57 EI+
I=1.1v TIC=38746000 SU Acnt:
Text:INFLUENT_10301_TrichLoroethene



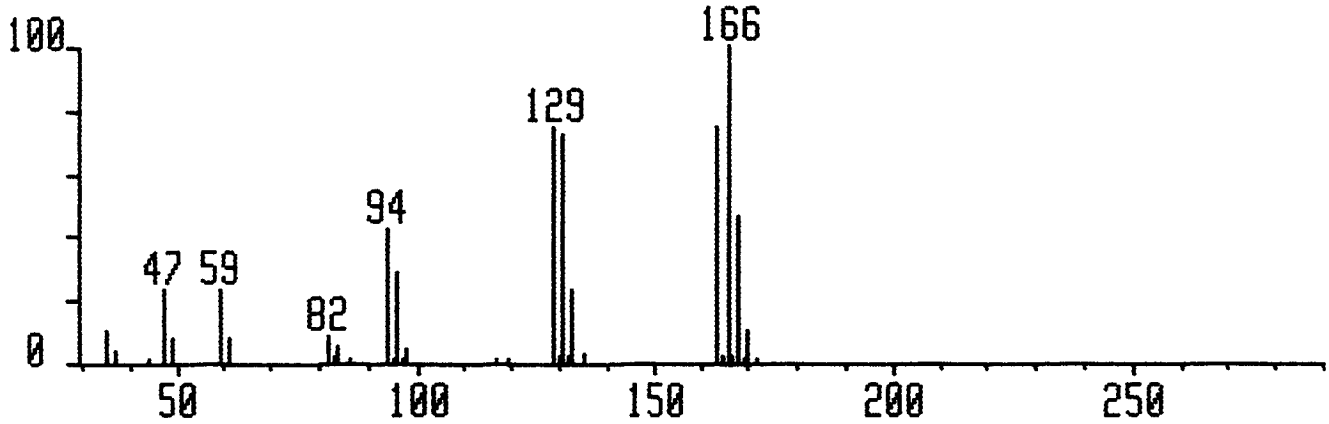
V8240#23 x1 Bgd=1 1-DEC-89 13:03+0:01:11 EI+
I=251mv TIC=11543000 Acnt:VG#2
Text:TrichLoroethene



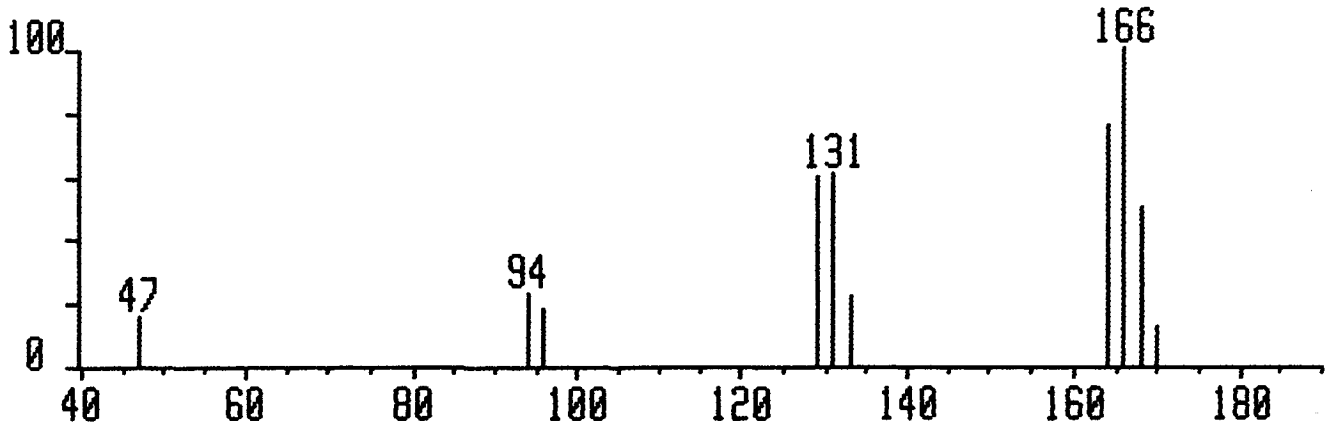
ZZ1081#483 x1 Bgd=474 12-FEB-92 16:38+0:25:03 EI+
I=557mv TIC=21755000 Acnt:
Text:INFLUENT_10301_Tetrachloroethene



ZZ1081S#483 x1 Bgd=477 12-FEB-92 16:38+0:25:03 EI+
I=557mv TIC=21256000 SU Acnt:
Text:INFLUENT_10301_Tetrachloroethene



V8240#35 x1 Bgd=1 1-DEC-89 13:03+0:01:47 EI+
I=248mv TIC=11347000 Acnt:VG#2
Text:Tetrachloroethene



ATT Results ZZ1081 TIC 20:51:00

Internal Standard	Scan	Area	Conc
Bromochloromethane	210	3906	50
1,4-Difluorobenzene	428	7021	50
Chlorobenzene-d5	537	7938	50

TIC Scan	BKG Scan	IS Scan	Area	Conc

QAE
2/03/92
KD

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BETWEEN

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 10302

Sample wt/vol: 5.0(g/mL) ML Lab File ID: ZZ1091

Level: (low/med) LOW Date Received: 02/06/92

% Moisture: not dec. 0 Date Analyzed: 02/12/92

GC Column: 1%SP1000 ID: 2 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-35-3	1,1-Dichloroethane	10	U
156-60-5	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
591-78-6	4-Methyl-2-Pentanone	10	U
108-10-1	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BETWEEN

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 10302

Sample wt/vol: 5.0(g/mL) ML Lab File ID: ZZ1091

Level: (low/med) LOW Date Received: 02/06/92

% Moisture: not dec. 0 Date Analyzed: 02/12/92

GC Column: 1%SP1000 ID: 2(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg)ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
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16.					
17.					
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19.					
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21.					
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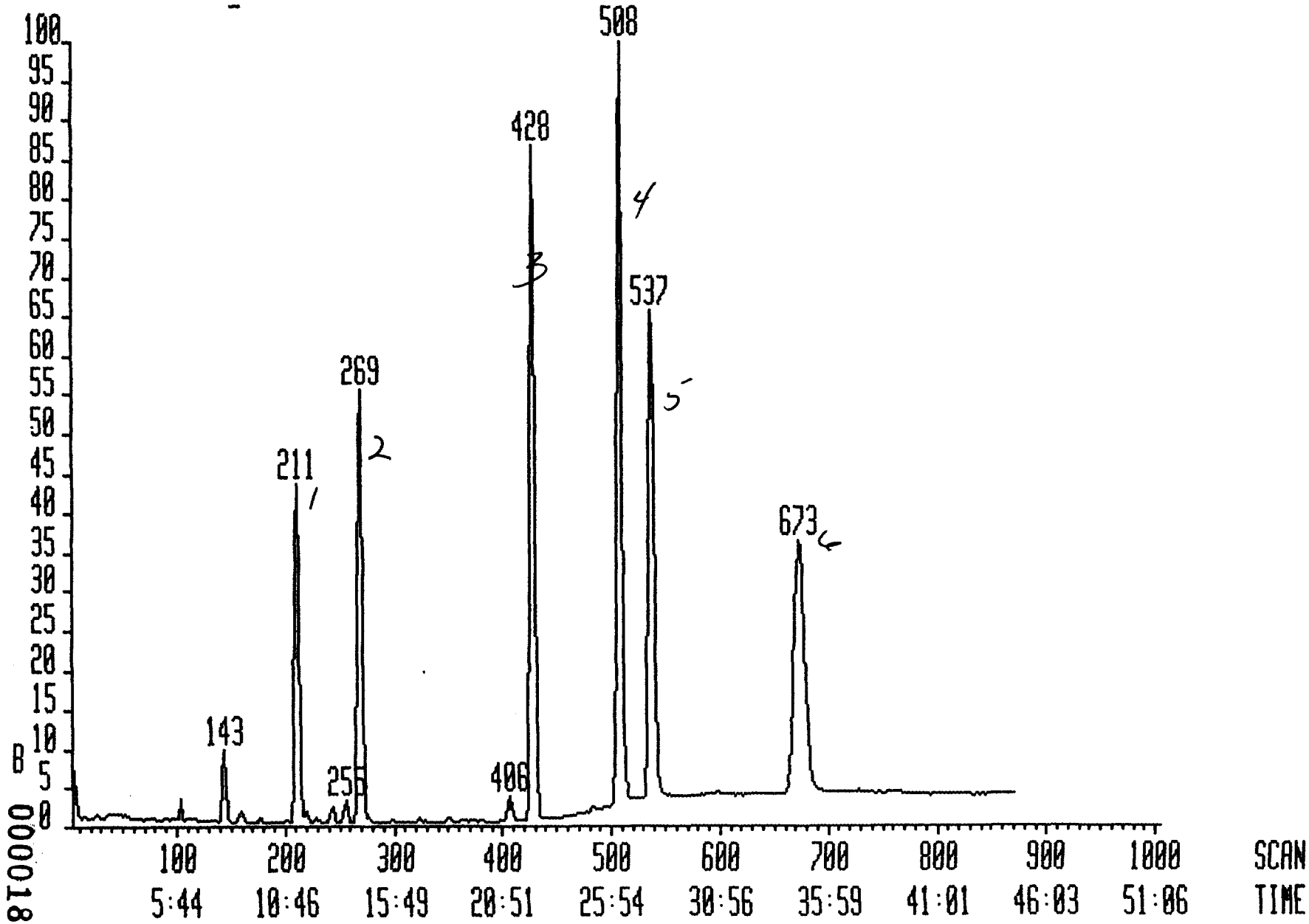
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

ZZ1091 #5-870 12-FEB-92 17:28 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 39002000

Text:BETWEEN_ 10302



000018

Interim Report Sample Analysis 13-FEB-92 04:02:56

Datafile: ZZ1091 12-FEB-92 17:28
Database: VOA91S
Library: VOA91

Instrument: VG#2
Account:
Text: BETWEEN_ 10302

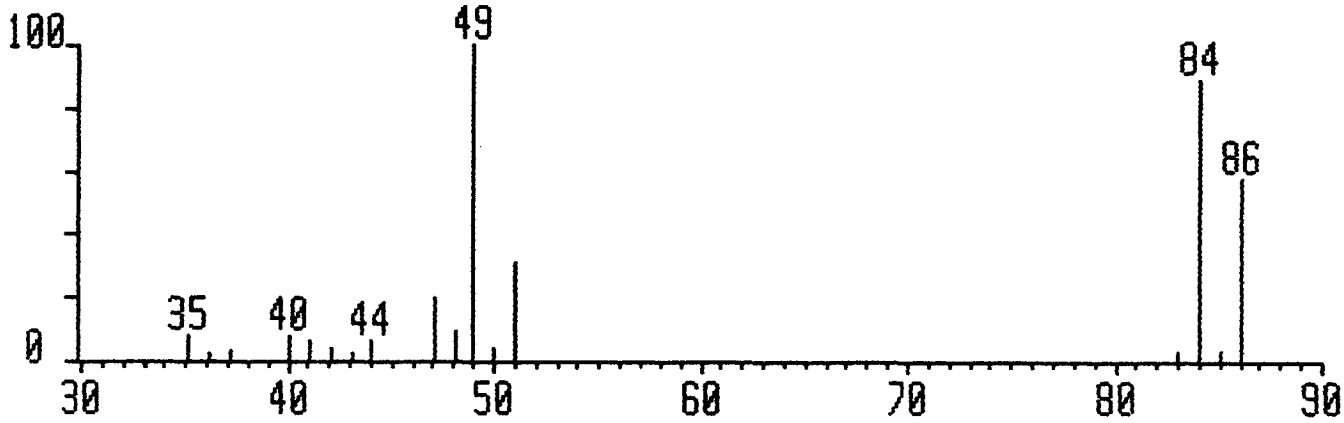
QLE 2/13/92 D

No.	Rank	Spectrum Match	Scan Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	98	88	95	0	9294000	bb	211	211	128	Bromochloromethane
2	98	87	99	1	30286000	bb	269	268	65	1,2-Dichloroethane-d4
3	46	12	74	0	213000	bb	25	25	50	Chloromethane
4	----------		No	Trace	Found	----------		54	94	Bromomethane
5	----------		No	Trace	Found	----------		73	62	Vinyl Chloride
6	----------		No	Trace	Found	----------		97	64	Chloroethane
7	94	83	95	-1	3479000	bb	143	144	84	Methylene Chloride
8	64	50	75	-3	1847000	vb*	159	162	43	Acetone
	44	15	75	6	1847000	?b	168			
	43	14	75	8	37000	b?	170			
9	78	63	87	2	316000	bb	177	175	76	Carbon Disulfide
10	43	17	63	0	39000	bb	202	202	96	1,1-Dichloroethene
11	74	47	91	0	410000	bb	229	229	63	1,1-Dichloroethane
12	95	79	99	0	662000	bb	243	243	96	1,2-Dichloroethene (to
13	91	77	94	0	1857000	bb	255	255	83	Chloroform
14	28	19	34	0	230000	bb	271	271	62	1,2-Dichloroethane
15	47	15	84	-8	87000	b?	263	271	43	2-Butanone
	45	1	84	1	303000	vv	272			
	44	11	84	-10	14000	b?	261			
16	83	57	98	0	54347000	bb	428	428	114	1,4-Difluorobenzene
	55	23	95	10	53000	bb	438			
17	35	13	53	1	76000	bb	299	298	97	1,1,1-Trichloroethane
18	22	4	37	0	30000	bb	307	307	117	Carbon Tetrachloride
19	----------		No	Trace	Found	----------		288	1	
20	25	3	43	0	12000	bb	316	316	83	Bromodichloromethane
21	27	8	43	1	25000	bb	347	346	63	1,2-Dichloropropane
22	31	7	53	2	47000	bb	353	351	75	cis-1,3-Dichloropropen
23	57	26	84	2	44000	bb	364	362	130	Trichloroethene
24	19	0	37	2	4000	bb	378	376	129	Dibromochloromethane
25	32	8	53	1	41000	bb	379	378	97	1,1,2-Trichloroethane
	10	1	23	-15	23000	bb	363			
26	40	20	56	1	232000	bb	374	373	78	Benzene
27	27	5	47	1	11000	bb	379	378	75	trans-1,3-dichloroprop
28	----------		No	Trace	Found	----------		372	1	
29	----------		No	Trace	Found	----------		433	173	Bromoform
30	89	71	98	1	44533000	bb*	537	536	117	Chlorobenzene-d5
31	83	59	98	-1	31983000	bv	673	674	95	4-Bromofluorobenzene
32	81	60	94	-1	63679000	bb	508	509	98	Toluene-d8
33	61	33	82	-1	23586	??	445	446	43	4-Methyl-2-Pentanone
	60	33	81	1	31310	??	447			
	57	30	82	4	12103	??	450			
34	64	38	84	1	2500	??	479	478	43	2-Hexanone
	62	34	84	-1	11808	??	477			
	60	33	83	3	34	??	481			
35	51	12	84	-1	46000	bb	483	484	164	Tetrachloroethene
36	46	2	84	0	22000	bb	483	483	83	1,1,2,2-Tetrachloroeth
37	53	10	90	0	542000	bb	513	513	91	Toluene
38	35	2	63	0	180000	bb	542	542	112	Chlorobenzene
39	32	5	56	2	12000	bb	600	598	106	Ethylbenzene
40	17	2	30	-1	62000	bb	719	719	104	Styrene

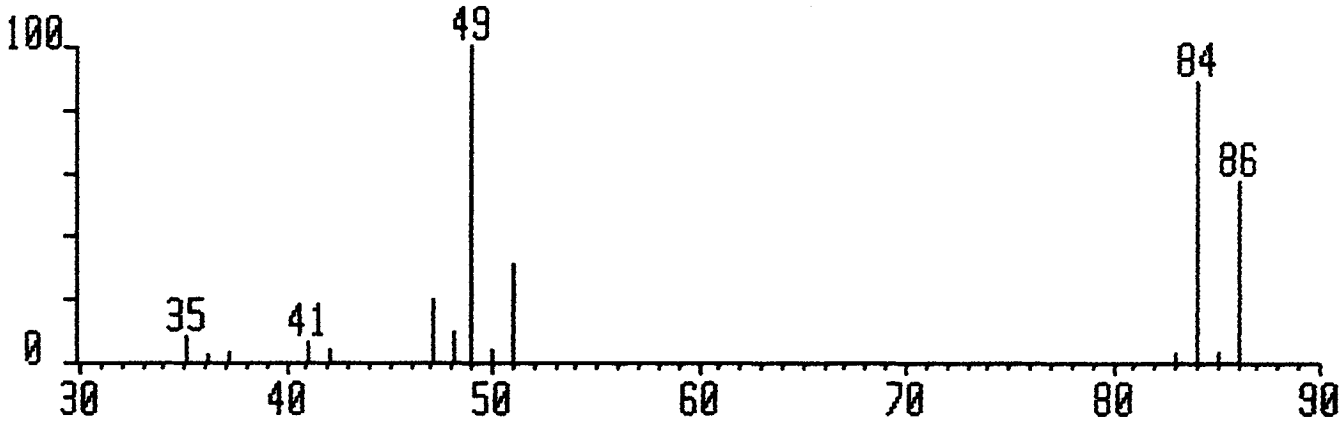
000019

40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Styrene
41	29	4	50	1	14000	bb	730	729	106	m-Xylene 22/091
42	35	6	61	-1	50000	bb	758	759	106	o-/p-Xylene
	35	6	62	3	19000	bb	762			
	33	6	60	5	13000	bb	764			
43	---------- No Trace Found ----------							0	-	

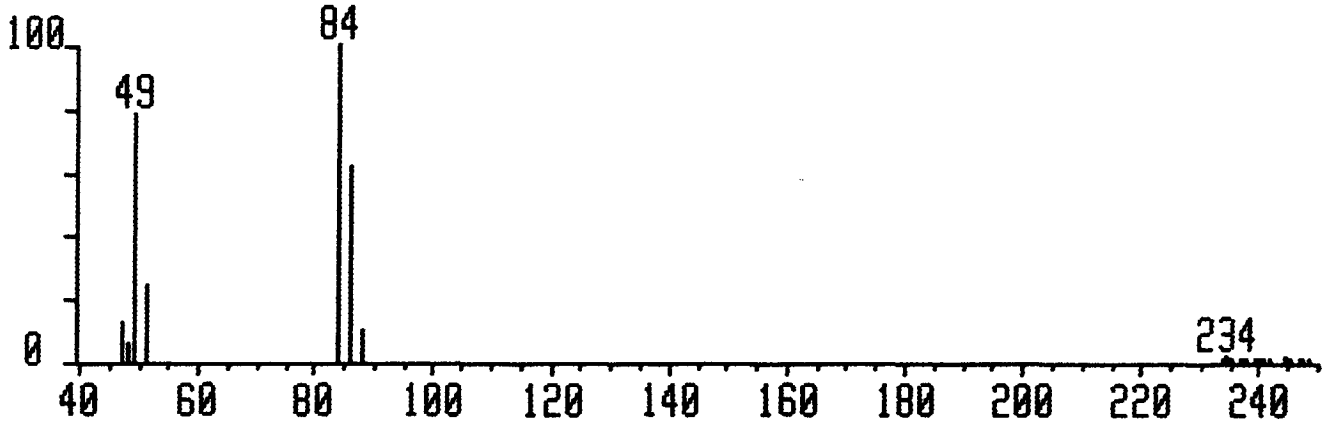
ZZ1091#143 x1 Bgd=1 12-FEB-92 17:28+0:07:54 EI+
I=164mv TIC=3749000 Acnt:
Text:BETWEEN_10302_Methylene Chloride



ZZ1091S#143 x1 Bgd=139 12-FEB-92 17:28+0:07:54 EI+
I=164mv TIC=3593000 SU Acnt:
Text:BETWEEN_10302_Methylene Chloride



V8240#7 x1 Bgd=1 1-DEC-89 13:03+0:00:23 EI+
I=234mv TIC=10910000 Acnt:VG#2
Text:Methylene Chloride



ATT Results ZZ1091 TIC 20:51:00

Internal Standard	Scan	Area	Conc
Bromochloromethane	211	4182	50
1,4-Difluorobenzene	428	7609	50
Chlorobenzene-d5	537	8461	50

TIC Scan	BKG Scan	IS Scan	Area	Conc

QAF
21.3/92
KD

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EFFLUENT

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 10303

Sample wt/vol: 5.0(g/mL) ML Lab File ID: ZZ1101

Level: (low/med) LOW Date Received: 02/06/92

% Moisture: not dec. 0 Date Analyzed: 02/12/92

GC Column: 1%SP1000 ID: 2 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-35-3	1,1-Dichloroethane	10	U
156-60-5	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
591-78-6	4-Methyl-2-Pentanone	10	U
108-10-1	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EFFLUENT

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 10303

Sample wt/vol: 5.0(g/mL) ML Lab File ID: ZZ1101

Level: (low/med) LOW Date Received: 02/06/92

% Moisture: not dec. 0 Date Analyzed: 02/12/92

GC Column: 1%SP1000 ID: 2(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg)ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
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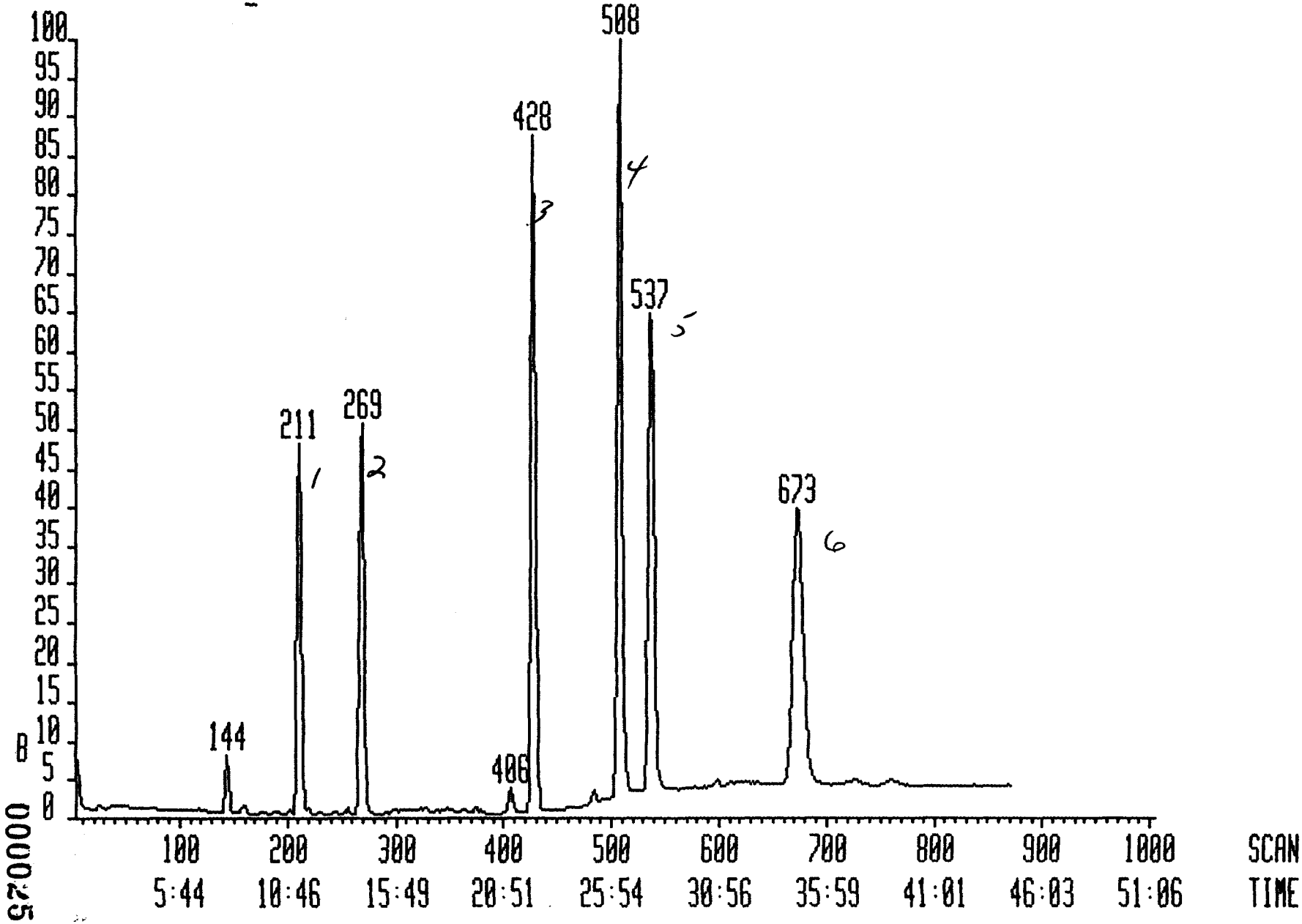
26.					
27.					
28.					
29.					
30.					

ZZ1101 #5-870 12-FEB-92 18:19 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 37717000

Text:EFFLUENT_ 10303



000025

Interim Report Sample Analysis 13-FEB-92 04:09:37

Datafile: ZZ1101 12-FEB-92 18:19
Database: VOA91S
Library: VOA91

Instrument: VG#2
Account:
Text: EFFLUENT_ 10303

QAE 2/13/92 KD

No.	Rank	Spectrum Match	Scan Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	97	87	95	0	10453000	bb	211	211	128	Bromochloromethane
2	98	87	99	1	27162000	bb	269	268	65	1,2-Dichloroethane-d4
3	44	8	74	0	137000	bb	25	25	50	Chloromethane
4	---------- No Trace Found ----------							54	94	Bromomethane
5	---------- No Trace Found ----------							73	62	Vinyl Chloride
6	---------- No Trace Found ----------							97	64	Chloroethane
7	94	81	95	0	2719000	bb	144	144	84	Methylene Chloride
8	61	44	75	-3	1223833	vv*	159	162	43	Acetone
	48	20	75	4	74250	??	166			
	43	15	75	9	37583	??	171			
9	---------- No Trace Found ----------							175	76	Carbon Disulfide
10	55	27	75	0	76000	bb	202	202	96	1,1-Dichloroethene
11	49	23	68	0	220000	bb	229	229	63	1,1-Dichloroethane
	33	7	68	14	85000	bb	243			
	28	0	68	-18	123000	bb	211			
12	56	34	71	0	109000	bb	243	243	96	1,2-Dichloroethene (to
13	86	67	94	0	549000	bb	255	255	83	Chloroform
14	28	18	34	0	149000	bb	271	271	62	1,2-Dichloroethane
15	46	12	84	-8	41000	bb	263	271	43	2-Butanone
	45	2	84	2	299000	bb	273			
	44	10	84	-10	12000	bb	261			
16	83	58	98	0	53507000	bb	428	428	114	1,4-Difluorobenzene
17	59	29	82	1	169000	bb	299	298	97	1,1,1-Trichloroethane
18	48	15	74	0	133000	vb	307	307	117	Carbon Tetrachloride
	37	3	69	3	133000	vb	310			
	32	2	66	-9	20000	bv	298			
19	---------- No Trace Found ----------							288	1	
20	51	15	82	1	123000	bb	317	316	83	Bromodichloromethane
	36	1	69	-3	3000	bb	313			
21	63	32	87	1	143000	bb	347	346	63	1,2-Dichloropropane
22	52	21	78	1	191000	bb	352	351	75	cis-1,3-Dichloropropen
	24	1	57	-18	9000	??	333			
	24	1	50	-10	15000	?b	341			
23	80	52	99	1	157000	bb	363	362	130	Trichloroethene
24	20	1	37	-1	12000	bb	375	376	129	Dibromochloromethane
25	43	13	68	0	35000	bb	378	378	97	1,1,2-Trichloroethane
26	79	58	91	1	540000	bb	374	373	78	Benzene
27	31	11	49	2	96000	bb	380	378	75	trans-1,3-dichloroprop
	16	0	37	-13	3000	bb	365			
28	---------- No Trace Found ----------							372	1	
29	---------- No Trace Found ----------							433	173	Bromoform
30	89	71	98	1	42738000	bv	537	536	117	Chlorobenzene-d5
31	83	60	98	-1	34235000	bv	673	674	95	4-Bromofluorobenzene
32	82	61	95	-1	60458000	bb*	508	509	98	Toluene-d8
33	64	36	83	0	51475	??	446	446	43	4-Methyl-2-Pentanone
	58	34	81	4	14700	??	450			
	56	33	81	6	7850	??	452			
34	64	39	83	1	0	??	479	478	43	2-Hexanone
	64	39	83	-2	3429	??	476			
	63	36	86	3	40	??	481			

35	50	15	80	-1	105000	bb	483	484	164	Tetrachloroethene 221101
36	45	2	84	-1	49000	bb	482	483	83	1,1,2,2-Tetrachloroeth
37	59	15	95	0	913000	bb	513	513	91	Toluene
38	47	4	83	0	413000	bb	542	542	112	Chlorobenzene
39	---------- No Trace Found ----------							598	106	Ethylbenzene
40	36	6	62	0	238000	bb	720	720	104	Styrene
	7	0	14	-6	16000	bb	714			
41	47	11	76	0	29000	bb	729	729	106	m-Xylene
	45	11	75	2	26000	bb	731			
	34	7	62	-7	10000	bb	722			
42	53	16	85	1	95000	bb	760	759	106	o-/p-Xylene
	47	12	78	-2	40000	bb	757			
	40	10	73	7	24000	bb	766			
43	---------- No Trace Found ----------							0	-	

ATT Results ZZ1101 TIC 20:51:00

Internal Standard	Scan	Area	Conc
Bromochloromethane	211	4704	50
1,4-Difluorobenzene	428	7491	50
Chlorobenzene-d5	537	8120	50

TIC Scan	BKG Scan	IS Scan	Area	Conc
~~599~~ Noise		537	1085	7
~~144~~		211	658	7

Methylene chloride small

QNE
2/3/92
KD

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PS#1

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 10304

Sample wt/vol: 5.0(g/mL) ML Lab File ID: ZZ1111

Level: (low/med) LOW Date Received: 02/06/92

% Moisture: not dec. 0 Date Analyzed: 02/12/92

GC Column: 1%SP1000 ID: 2 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-35-3	1,1-Dichloroethane	10	U
156-60-5	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	5	J
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
591-78-6	4-Methyl-2-Pentanone	10	U
108-10-1	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

PS#1

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 10304

Sample wt/vol: 5.0(g/mL) ML Lab File ID: ZZ1111

Level: (low/med) LOW Date Received: 02/06/92

% Moisture: not dec. 0 Date Analyzed: 02/12/92

GC Column: 1%SP1000 ID: 2(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

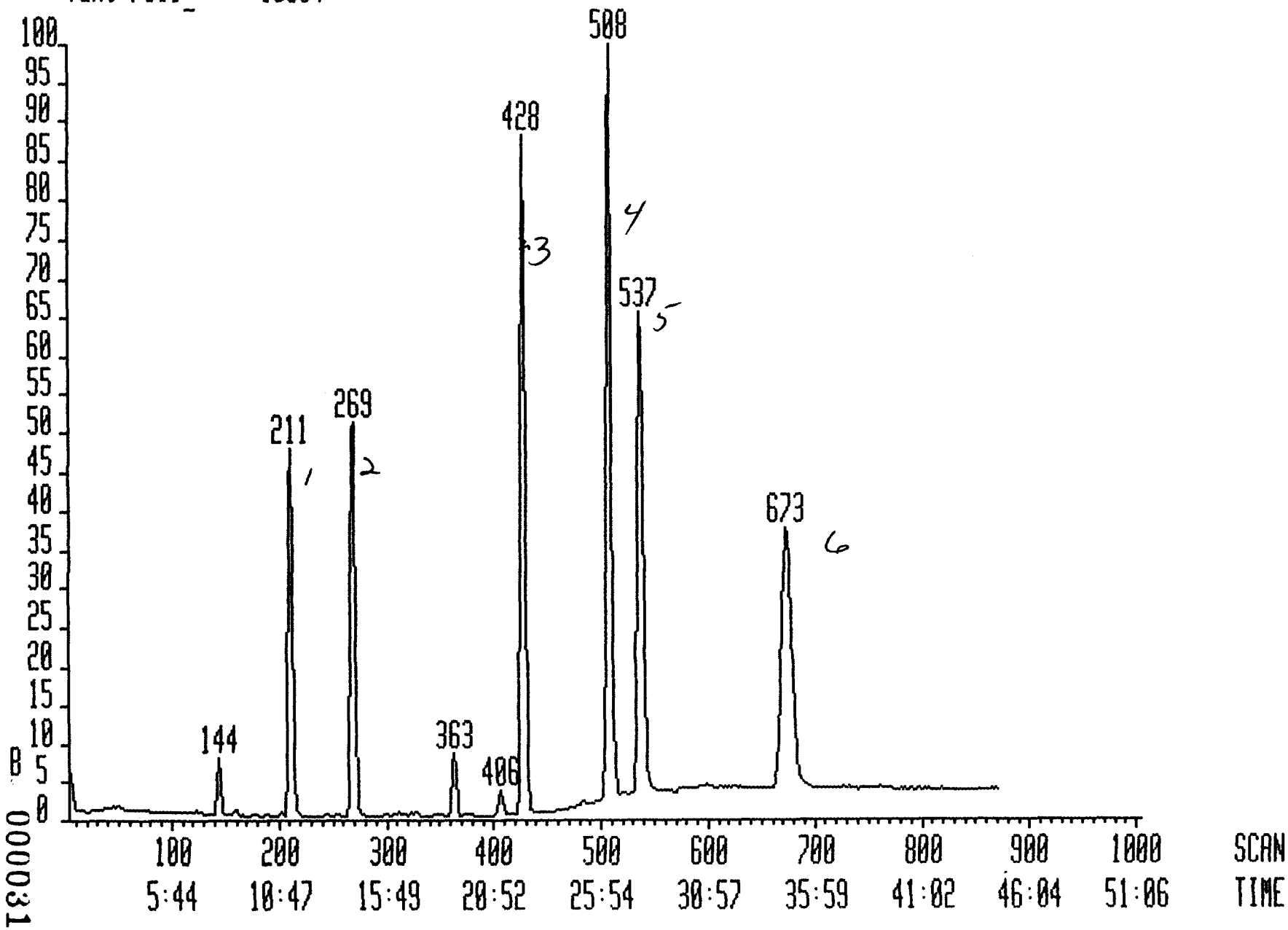
CONCENTRATION UNITS:
(ug/L or ug/Kg)ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

ZZ1111 #5-870 12-FEB-92 19:10 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 37155000

Text:PS#1_ 10304



000031

Interim Report Sample Analysis 13-FEB-92 04:16:17

Datafile: ZZ1111 12-FEB-92 19:10
Database: VOA91S
Library: VOA91

Instrument: VG#2
Account:
Text: PS#1_ 10304

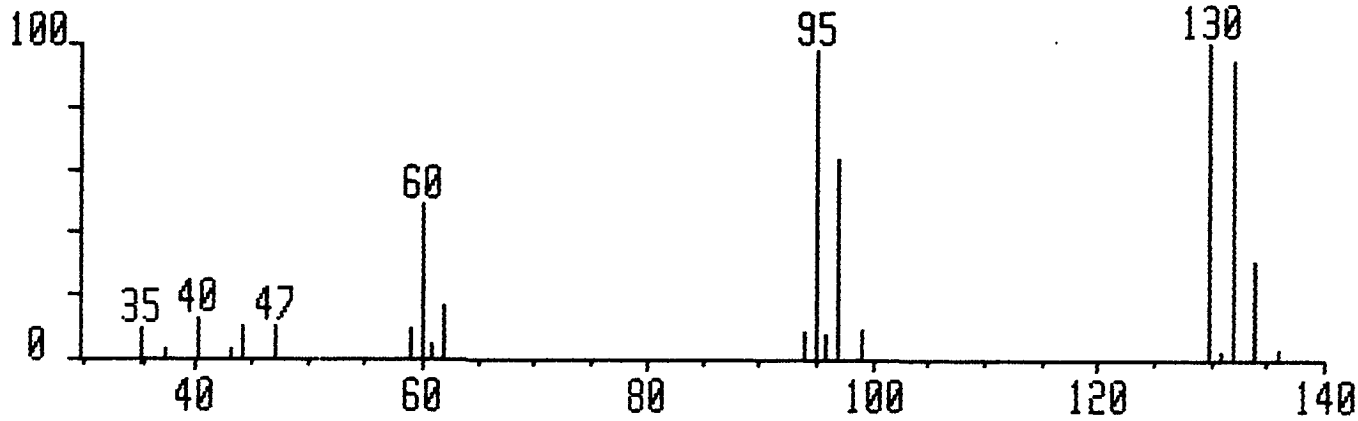
QAE
2/13/92
KD

No.	Rank	Spectrum Match	Fit	Scan Diff	Peak Area	Flgs	Scan Found	Pred	Quan m/z	Compound Name
1	97	87	95	0	9879000	bb	211	211	128	Bromochloromethane
2	99	88	99	1	28235000	bb	269	268	65	1,2-Dichloroethane-d4
3	----------		No	Trace	Found	----------		25	50	Chloromethane
4	----------		No	Trace	Found	----------		54	94	Bromomethane
5	----------		No	Trace	Found	----------		73	62	Vinyl Chloride
6	----------		No	Trace	Found	----------		97	64	Chloroethane
7	94	81	95	0	2623000	bb	144	144	84	Methylene Chloride
8	60	40	75	-2	948488	bv	160	162	43	Acetone
	40	12	75	11	12390	??	173			
	39	8	75	-9	2098	??	153			
9	----------		No	Trace	Found	----------		175	76	Carbon Disulfide
10	55	28	75	0	76000	bb	202	202	96	1,1-Dichloroethene
11	32	6	68	14	77000	bb	243	229	63	1,1-Dichloroethane
	28	0	68	-18	104000	bb	211			
12	56	33	71	0	99000	bb	243	243	96	1,2-Dichloroethene (to
13	41	21	55	0	216000	bb	255	255	83	Chloroform
14	25	17	30	0	61000	bb	271	271	62	1,2-Dichloroethane
15	45	11	84	-9	11000	bb	262	271	43	2-Butanone
	45	2	84	2	210000	bb	273			
	43	5	84	8	11000	bb	279			
16	83	58	98	0	53462000	bb	428	428	114	1,4-Difluorobenzene
	64	34	98	7	106000	bb	435			
	58	26	96	9	61000	bb	437			
17	56	32	75	1	153000	bb	299	298	97	1,1,1-Trichloroethane
18	47	22	67	-1	114000	bb	306	307	117	Carbon Tetrachloride
	43	15	67	1	114000	bb	308			
19	----------		No	Trace	Found	----------		288	1	
20	50	17	77	1	56000	bb	317	316	83	Bromodichloromethane
21	47	23	65	0	77000	bb	346	346	63	1,2-Dichloropropane
22	36	14	54	1	92000	bb	352	351	75	cis-1,3-Dichloropropen
23	94	80	99	1	2239000	bb	363	362	130	Trichloroethene
24	----------		No	Trace	Found	----------		376	129	Dibromochloromethane
25	25	8	50	-14	1395000	bb	364	378	97	1,1,2-Trichloroethane
	13	1	23	0	22000	bb	378			
26	42	22	56	0	98000	bb	373	373	78	Benzene
27	31	9	49	1	35000	bb	379	378	75	trans-1,3-dichloroprop
28	----------		No	Trace	Found	----------		372	1	
29	----------		No	Trace	Found	----------		433	173	Bromoform
30	89	71	98	1	41782000	bv	537	536	117	Chlorobenzene-d5
31	83	60	98	-1	32263000	bv*	673	674	95	4-Bromofluorobenzene
32	82	60	95	-1	59418000	bb*	508	509	98	Toluene-d8
33	58	29	79	0	75313	??	446	446	43	4-Methyl-2-Pentanone
	57	30	79	2	81000	??	448			
	56	32	79	4	84688	??	450			
34	63	37	84	-2	148333	??	476	478	43	2-Hexanone
	61	36	81	2	32500	b?	480			
	58	35	83	-6	189889	??	472			
35	46	12	75	-1	68000	bb	483	484	164	Tetrachloroethene
36	26	0	49	0	10000	bb	483	483	83	1,1,2,2-Tetrachloroeth
37	56	12	92	0	626000	bb	513	513	91	Toluene

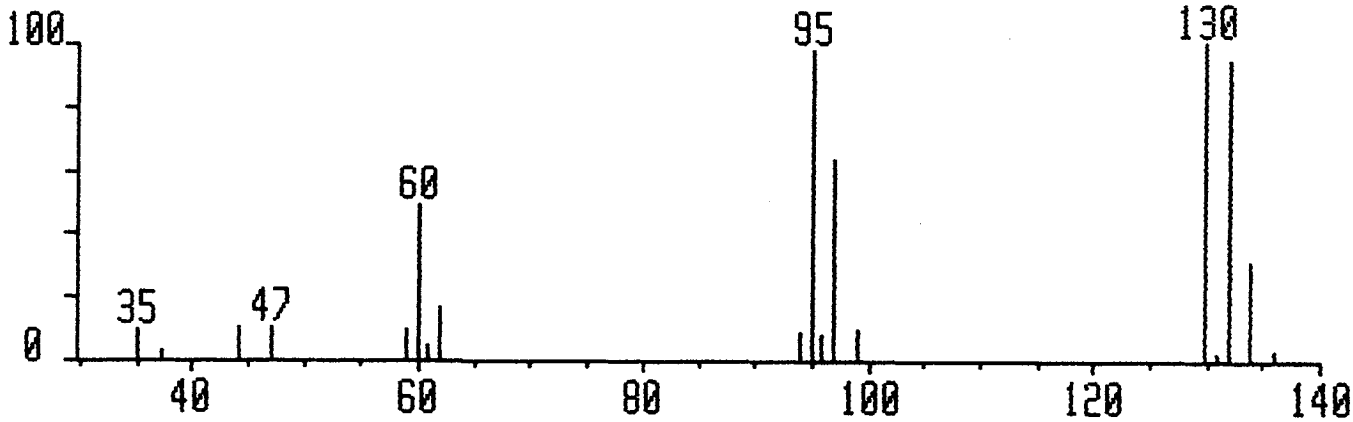
000032

38	33	2	60	-1	241000	bb	541	542	112	Chlorobenzene 22111
39	44	10	73	0	38000	bb	598	598	106	Ethylbenzene
	37	7	64	-2	28000	bb	596			
	30	5	54	3	11000	bb	601			
40	14	1	25	0	89000	bb	720	720	104	Styrene
	11	1	21	4	11000	bb	724			
	10	1	18	-4	10000	b?	716			
41	29	5	49	-1	24000	bb	728	729	106	m-Xylene
	24	3	43	3	12000	bb	732			
42	37	7	63	0	20000	bb	759	759	106	o-/p-Xylene
	37	7	66	5	15000	bb	764			
	36	7	62	2	19000	bb	761			
43	---------- No Trace Found ----------							0	-	

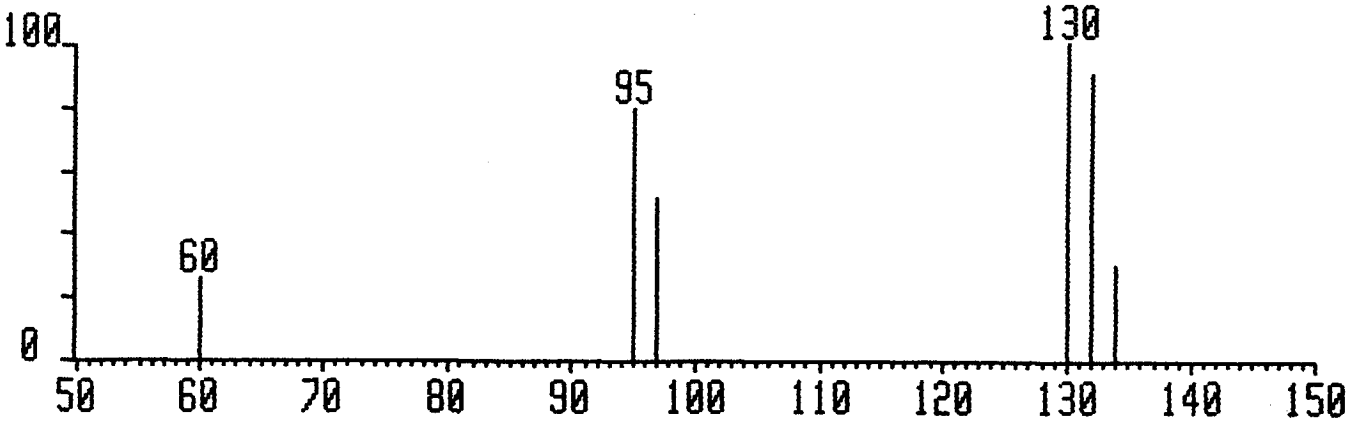
ZZ1111#363 x1 Bgd=260 12-FEB-92 19:10+0:18:59 EI+
I=90mv TIC=3183000 Acnt:
Text:PS#1_10304_Trichloroethene



ZZ1111S#363 x1 Bgd=358 12-FEB-92 19:10+0:18:59 EI+
I=90mv TIC=3101000 SU Acnt:
Text:PS#1_10304_Trichloroethene



V8240#23 x1 Bgd=1 1-DEC-89 13:03+0:01:11 EI+
I=251mv TIC=11543000 Acnt:VG#2
Text:Trichloroethene



ATT Results ZZ1111 TIC 20:51:00

Internal Standard	Scan	Area	Conc
Bromochloromethane	211	4446	50
1,4-Difluorobenzene	428	7485	50
Chlorobenzene-d5	537	7939	50

TIC Scan	BKG Scan	IS Scan	Area	Conc
~~144~~		211	640	7

Methylene chloride Small

QRE 2/3/92 KD

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PS#3

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 10305

Sample wt/vol: 5.0(g/mL) ML Lab File ID: ZZ1121

Level: (low/med) LOW Date Received: 02/06/92

% Moisture: not dec. 0 Date Analyzed: 02/12/92

GC Column: 1%SP1000 ID: 2 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-35-3	1,1-Dichloroethane	10	U
156-60-5	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	43	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
591-78-6	4-Methyl-2-Pentanone	10	U
108-10-1	2-Hexanone	10	U
127-18-4	Tetrachloroethene	47	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

PS#3

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 10305

Sample wt/vol: 5.0(g/mL) ML Lab File ID: ZZ1121

Level: (low/med) LOW Date Received: 02/06/92

% Moisture: not dec. 0 Date Analyzed: 02/12/92

GC Column: 1%SP1000 ID: 2(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg)ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
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14.					
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16.					
17.					
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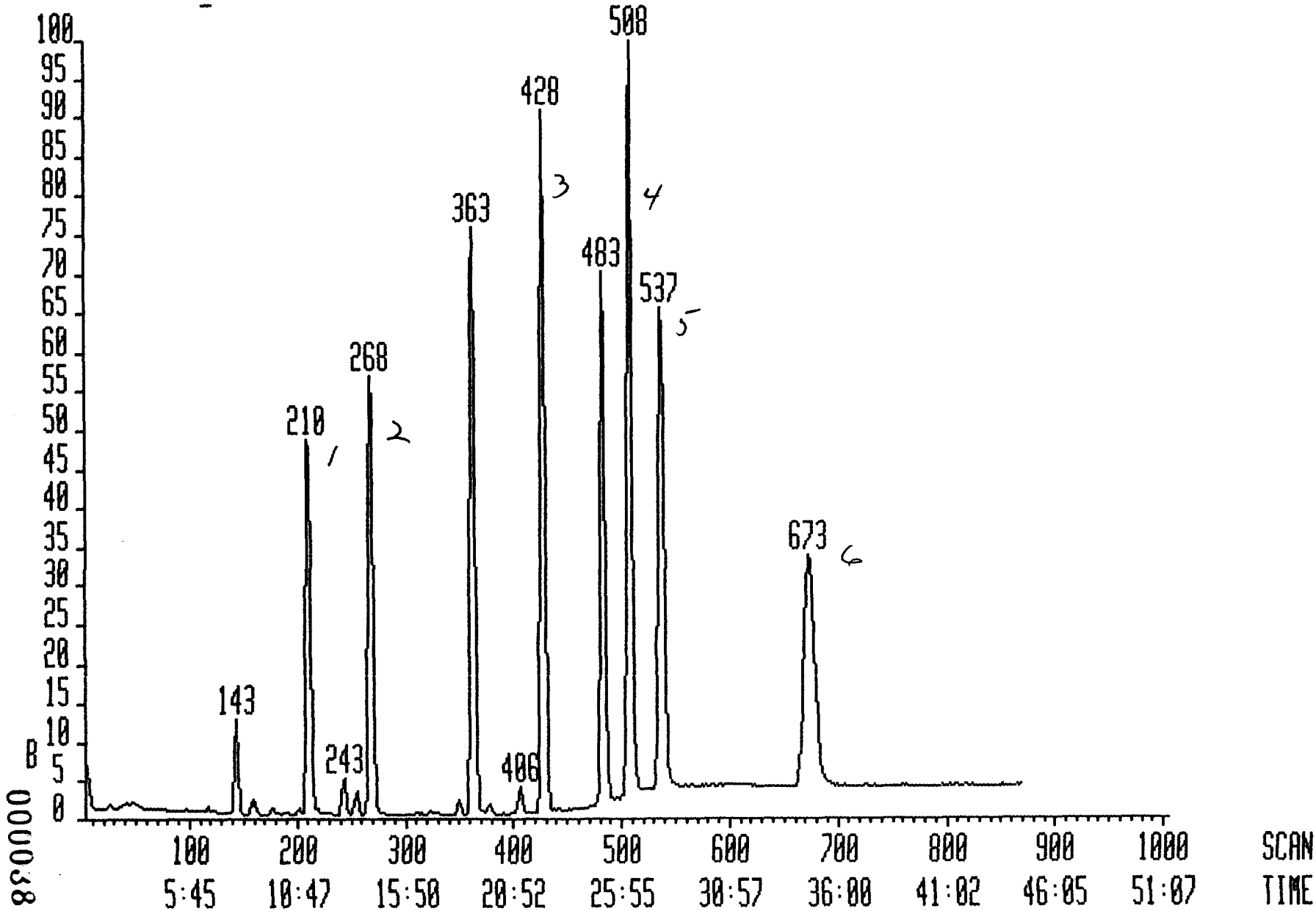
24.					
25.					
26.					
27.					
28.					
29.					
30.					

Z21121 #5-869 12-FEB-92 20:00 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 33187000

Text:PS#3_ 10305



000038

Interim Report Sample Analysis 13-FEB-92 04:22:57

Datafile: ZZ1121 12-FEB-92 20:00
Database: VOA91S
Library: VOA91

Instrument: VG#2
Account:
Text: PS#3_ 10305

QRP 2/13/92

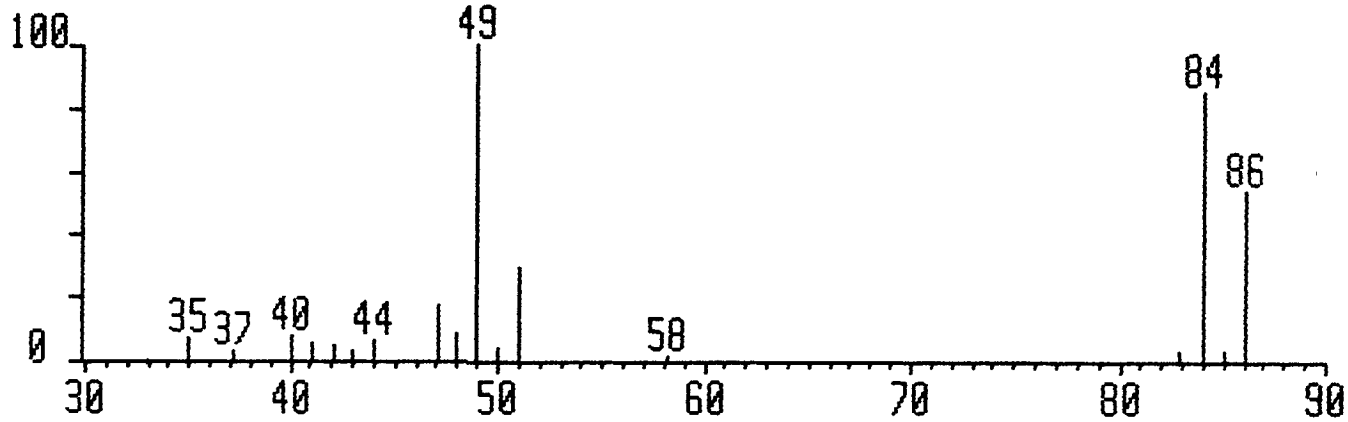
No.	Rank	Spectrum Match	Fit	Scan Diff	Peak Area	Flgs	Scan Found	Pred	Quan m/z	Compound Name
1	96	87	95	-1	9625000	bb	210	211	128	Bromochloromethane
2	99	88	99	1	27599000	bb	268	267	65	1,2-Dichloroethane-d4
3	47	13	74	0	276000	bb	25	25	50	Chloromethane
4	----------		No	Trace	Found	----------		54	94	Bromomethane
5	----------		No	Trace	Found	----------		73	62	Vinyl Chloride
6	----------		No	Trace	Found	----------		97	64	Chloroethane
7	95	83	95	0	3833000	bb	143	143	84	Methylene Chloride
8	65	49	75	-2	1868429	bv*	159	161	43	Acetone
	42	13	75	-8	4159	??	153			
	40	13	75	-11	1149	??	150			
9	77	62	88	3	559000	bb	177	174	76	Carbon Disulfide
10	56	31	75	1	113000	bb	202	201	96	1,1-Dichloroethene
11	49	24	68	1	243000	bb	229	228	63	1,1-Dichloroethane
	32	7	68	15	736000	bb	243			
	28	0	68	-17	102000	bb	211			
12	97	85	99	1	1396000	bb	243	242	96	1,2-Dichloroethene (to
13	90	77	94	1	1562000	bb	255	254	83	Chloroform
14	27	18	34	1	136000	bb	271	270	62	1,2-Dichloroethane
15	47	12	84	-7	116000	bv	263	270	43	2-Butanone
	45	4	84	3	365000	vv	273			
	42	6	84	10	35000	?b	280			
16	81	58	98	2	48164000	bb	428	426	114	1,4-Difluorobenzene
	55	24	95	11	49000	bb	437			
17	----------		No	Trace	Found	----------		298	97	1,1,1-Trichloroethane
18	----------		No	Trace	Found	----------		307	117	Carbon Tetrachloride
19	----------		No	Trace	Found	----------		288	1	
20	----------		No	Trace	Found	----------		316	83	Bromodichloromethane
21	18	2	41	17	27000	bb	363	346	63	1,2-Dichloropropane
22	----------		No	Trace	Found	----------		351	75	cis-1,3-Dichloropropen
23	94	79	99	1	18565000	bb	363	362	130	Trichloroethene
24	----------		No	Trace	Found	----------		376	129	Dibromochloromethane
25	74	50	88	0	353000	bb	378	378	97	1,1,2-Trichloroethane
26	19	3	33	1	78000	bb	374	373	78	Benzene
27	----------		No	Trace	Found	----------		378	75	trans-1,3-dichloroprop
28	----------		No	Trace	Found	----------		372	1	
29	----------		No	Trace	Found	----------		433	173	Bromoform
30	89	71	98	1	37433000	bb*	537	536	117	Chlorobenzene-d5
31	83	59	98	-1	25277000	bv	673	674	95	4-Bromofluorobenzene
32	82	60	95	-1	54222000	bb*	508	509	98	Toluene-d8
33	59	33	81	3	25400	??	449	446	43	4-Methyl-2-Pentanone
	58	31	80	-2	9400	??	444			
	56	32	80	5	4270	??	451			
34	61	35	80	-1	0	??	477	478	43	2-Hexanone
	57	33	80	-5	7652	??	473			
	54	33	80	-8	6000	??	470			
35	95	81	99	-1	12651000	bb	483	484	164	Tetrachloroethene
36	39	0	74	-1	267000	bb	482	483	83	1,1,2,2-Tetrachloroeth
	27	0	52	1	267000	bb	484			
37	41	5	71	0	266000	bb	513	513	91	Toluene
38	25	1	46	-1	11000	bb	541	541	112	Chlorobenzene

541 chlorobenzene

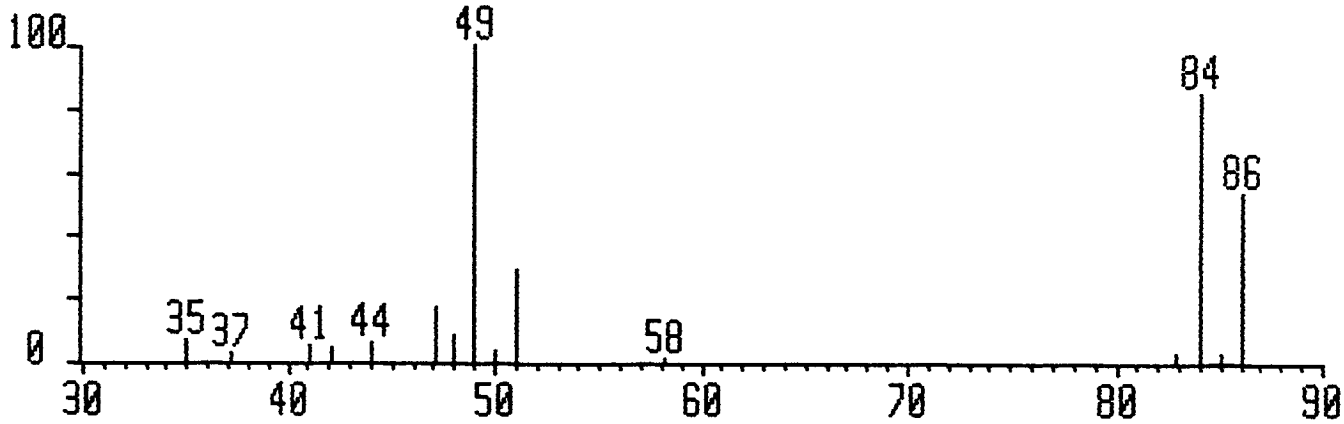
000039

39	----------	No Trace Found	----------	598	106	Ethylbenzene 22/121
40	----------	No Trace Found	----------	720	104	Styrene
41	----------	No Trace Found	----------	729	106	m-Xylene
42	----------	No Trace Found	----------	759	106	o-/p-Xylene
43	----------	No Trace Found	----------	0	-	

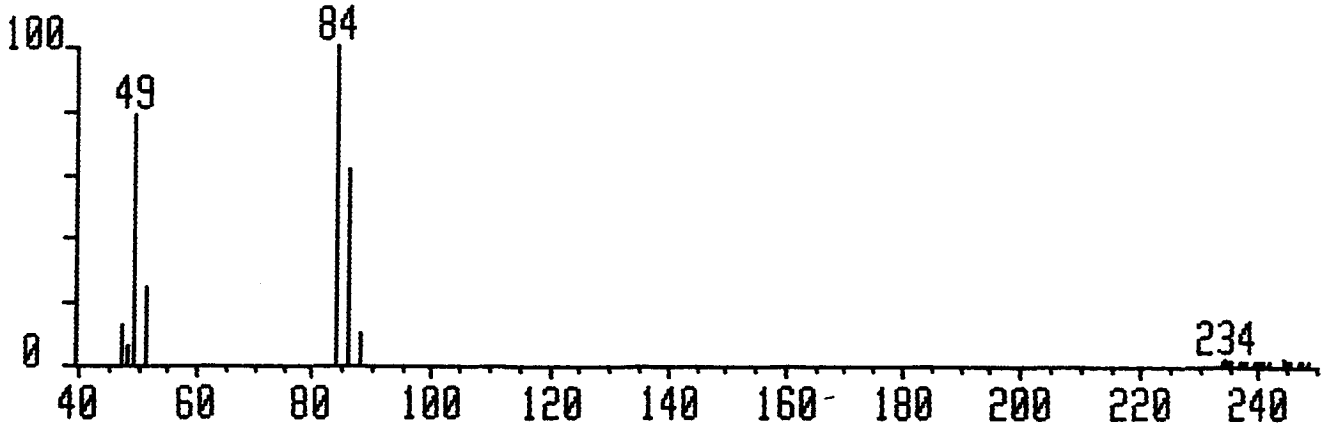
ZZ1121#143 x1 Bgd=1 12-FEB-92 20:00+0:07:55 EI+
I=193mv TIC=4213000 Acnt:
Text:PS#3_10305_Methylene Chloride



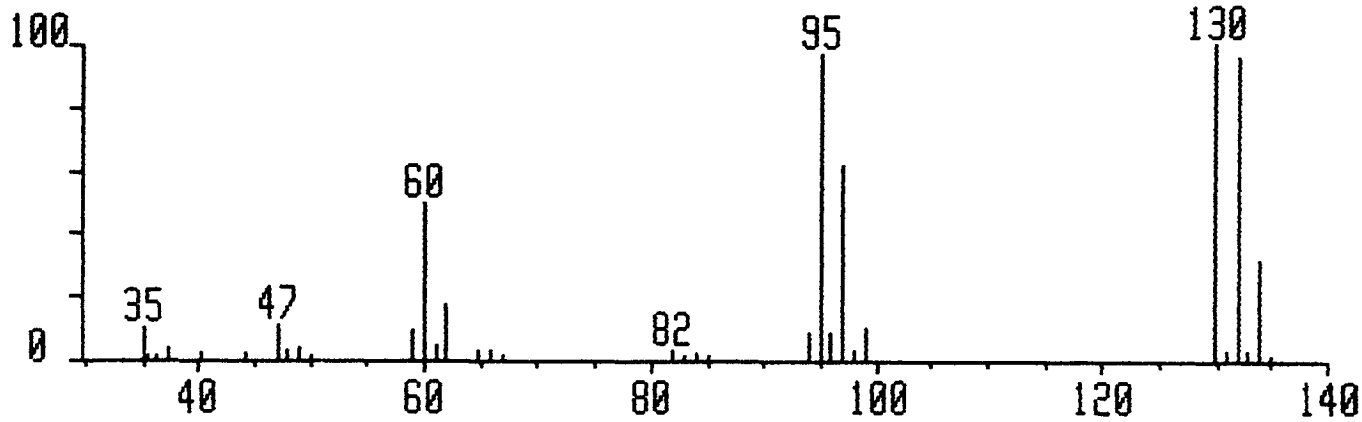
ZZ1121S#143 x1 Bgd=139 12-FEB-92 20:00+0:07:55 EI+
I=193mv TIC=4105000 SU Acnt:
Text:PS#3_10305_Methylene Chloride



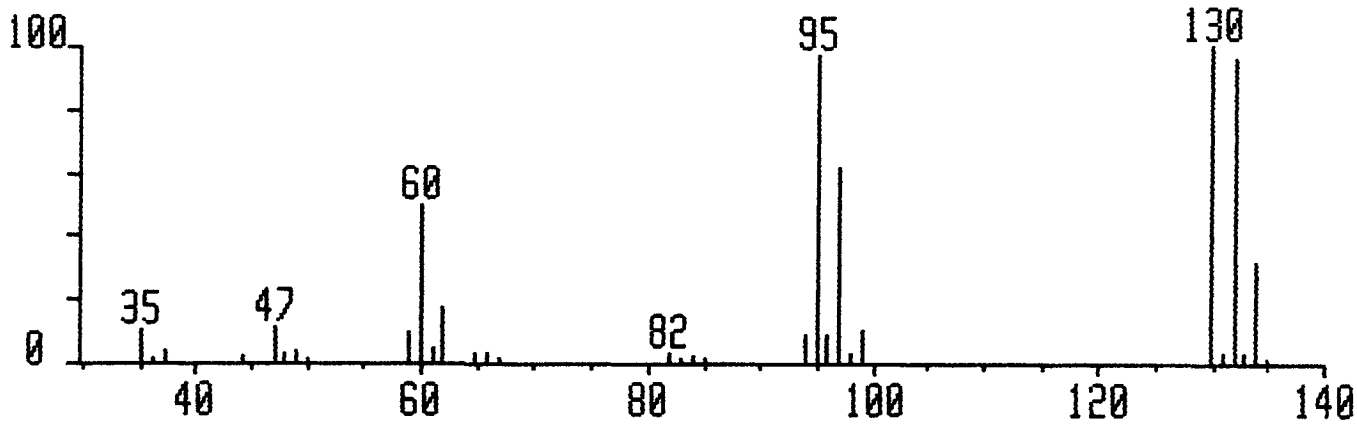
V8240#7 x1 Bgd=1 1-DEC-89 13:03+0:00:23 EI+
I=234mv TIC=10910000 Acnt:VG#2
Text:Methylene Chloride



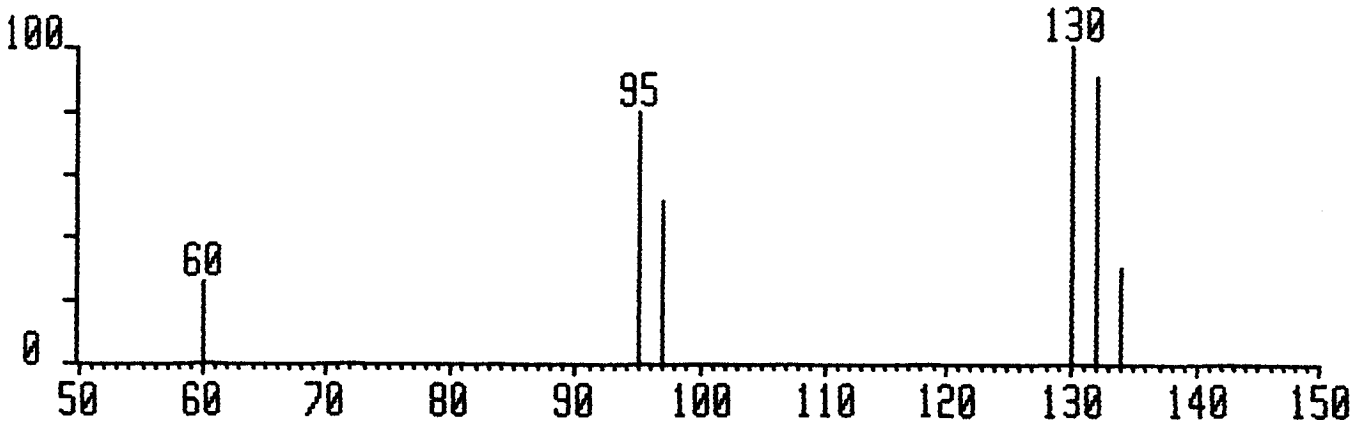
ZZ1121#363 x1 Bgd=355 12-FEB-92 20:00+0:19:00 EI+
I=708mv TIC=25199000 Acnt:
Text:PS#3_10305_TrichLoroethene



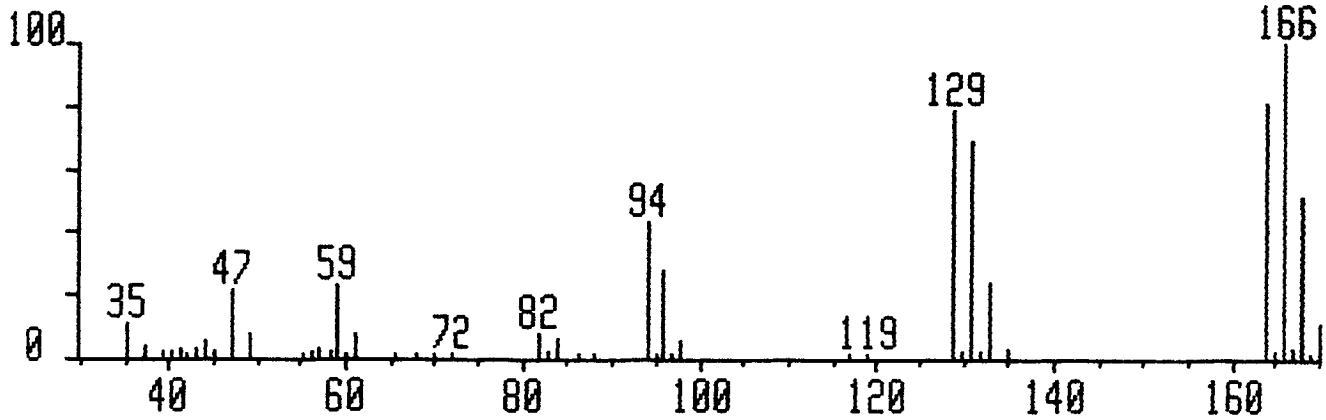
ZZ1121S#363 x1 Bgd=357 12-FEB-92 20:00+0:19:00 EI+
I=708mv TIC=25117000 SU Acnt:
Text:PS#3_10305_TrichLoroethene



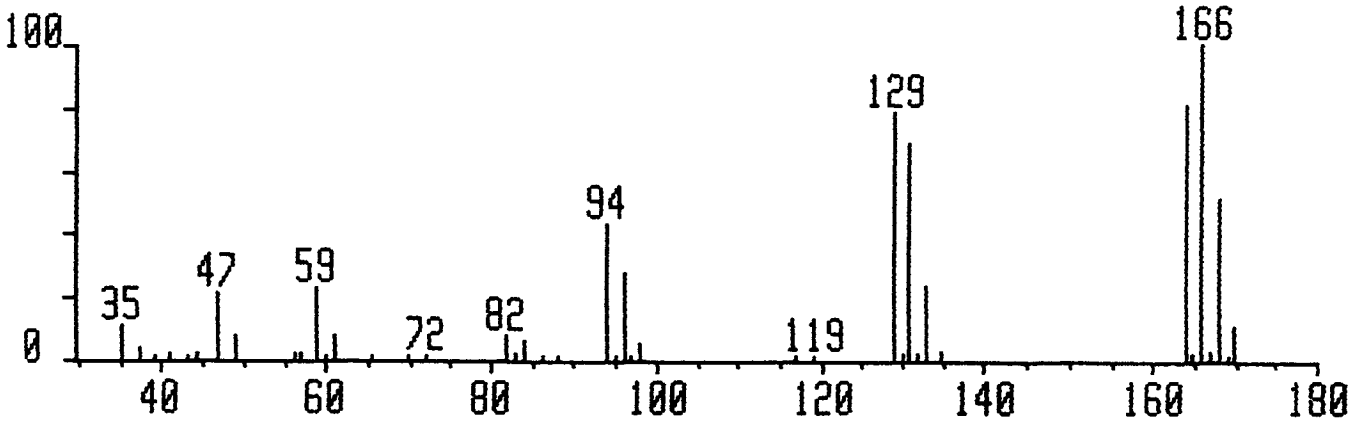
V8240#23 x1 Bgd=1 1-DEC-89 13:03+0:01:11 EI+
I=251mv TIC=11543000 Acnt:VG#2
Text:TrichLoroethene



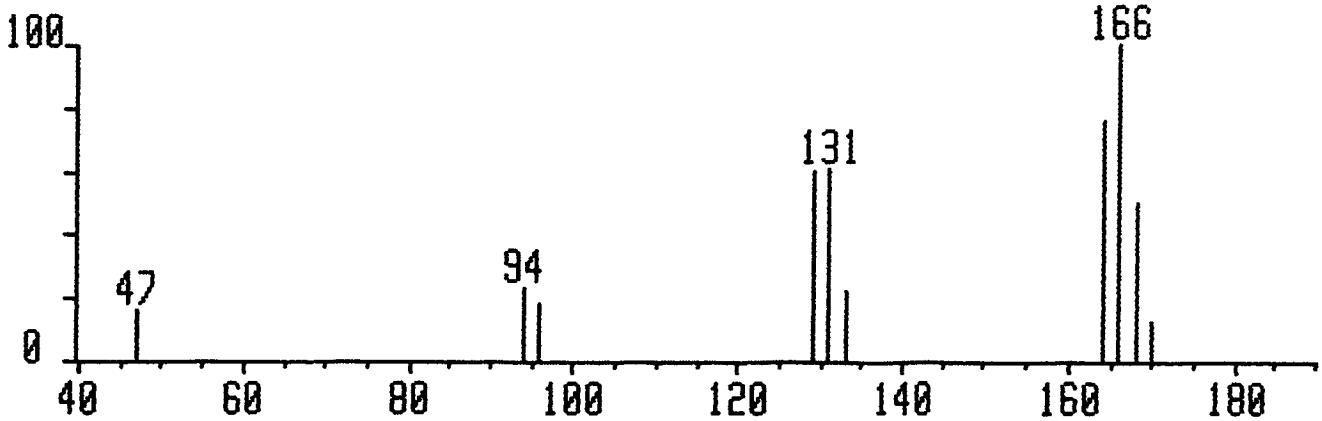
ZZ1121#483 x1 Bgd=473 12-FEB-92 20:00+0:25:03 EI+
I=575mv TIC=23244000 Acnt:
Text:PS#3_10305_Tetrachloroethene



ZZ1121S#483 x1 Bgd=477 12-FEB-92 20:00+0:25:03 EI+
I=575mv TIC=22762000 SU Acnt:
Text:PS#3_10305_Tetrachloroethene



V8240#35 x1 Bgd=1 1-DEC-89 13:03+0:01:47 EI+
I=248mv TIC=11347000 Acnt:VG#2
Text:Tetrachloroethene



ATT Results ZZ1121 TIC 10305

Internal Standard	Scan	Area	Conc
Bromochloromethane	210	4331	50
1,4-Difluorobenzene	428	6743	50
Chlorobenzene-d5	537	7112	50

TIC Scan	BKG Scan	IS Scan	Area	Conc

QRE
2/13/92
KO

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PS#4

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 10306

Sample wt/vol: 5.0(g/mL) ML Lab File ID: ZZ1131

Level: (low/med) LOW Date Received: 02/06/92

% Moisture: not dec. 0 Date Analyzed: 02/12/92

GC Column: 1%SP1000 ID: 2 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	9	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-35-3	1,1-Dichloroethane	10	U
156-60-5	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	39	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
591-78-6	4-Methyl-2-Pentanone	10	U
108-10-1	2-Hexanone	10	U
127-18-4	Tetrachloroethene	27	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

PS#4

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 10306

Sample wt/vol: 5.0(g/mL) ML Lab File ID: ZZ1131

Level: (low/med) LOW Date Received: 02/06/92

% Moisture: not dec. 0 Date Analyzed: 02/12/92

GC Column: 1%SP1000 ID: 2(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

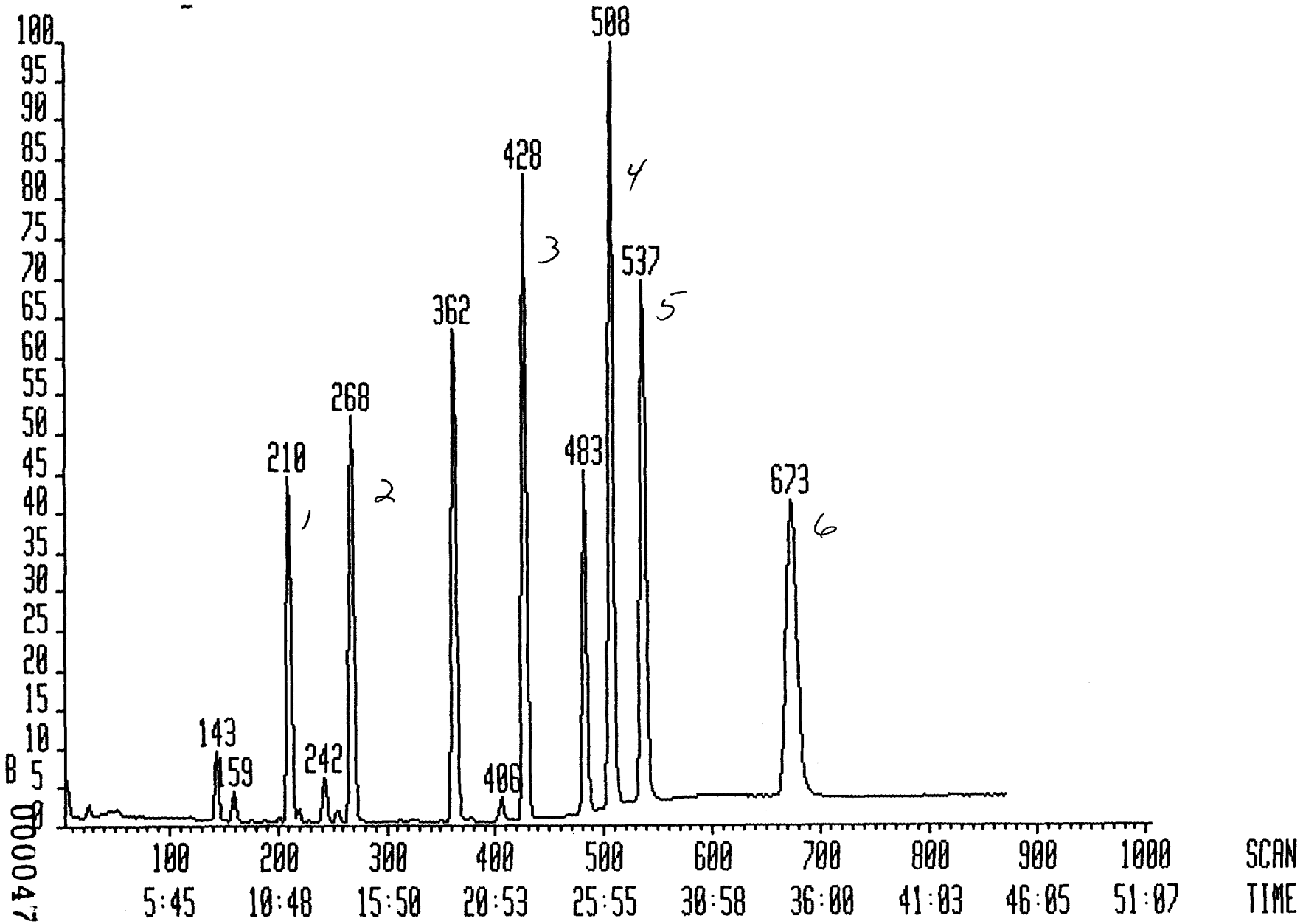
CONCENTRATION UNITS:
(ug/L or ug/Kg)ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	G
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

ZZ1131 #5-870 12-FEB-92 20:51 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 39313000

Text:PS#4_ 10306



000047

Interim Report Sample Analysis 13-FEB-92 04:29:36

Datafile: ZZ1131 12-FEB-92 20:51
Database: VOA91S
Library: VOA91

Instrument: VG#2
Account:
Text: PS#4_ 10306

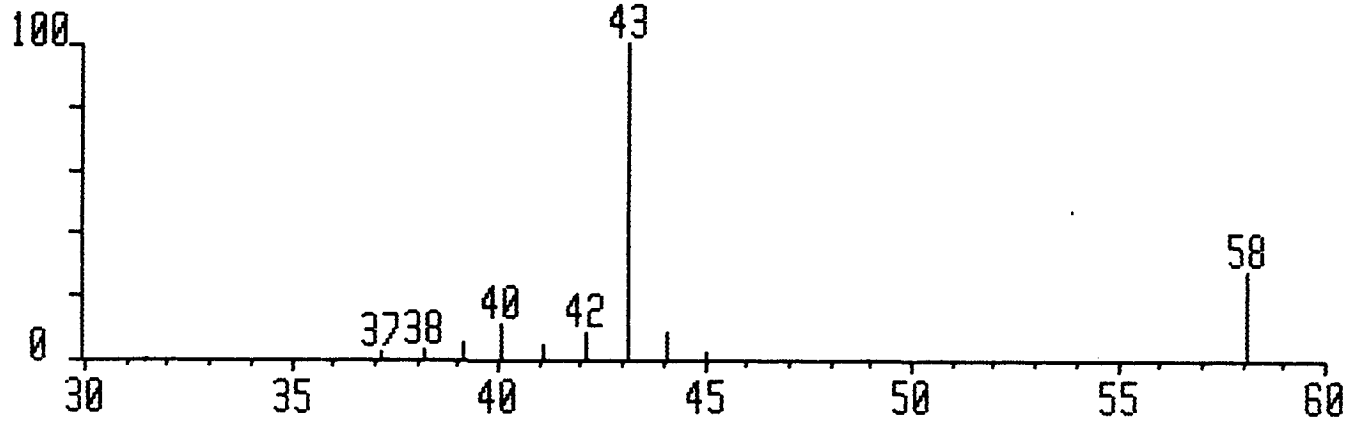
QRE 2/13/92 KD

No.	Rank	Spectrum Match	Fit	Scan Diff	Peak Area	Flgs	Scan Found	Pred	Quan m/z	Compound Name
1	96	87	95	-1	10202000	bb	210	211	128	Bromochloromethane
2	99	88	99	1	28734000	bb	268	267	65	1,2-Dichloroethane-d4
3	58	35	74	0	1431000	bb	25	25	50	Chloromethane
4	----------	No	Trace	Found	----------			54	94	Bromomethane
5	----------	No	Trace	Found	----------			73	62	Vinyl Chloride
6	----------	No	Trace	Found	----------			97	64	Chloroethane
7	95	82	95	0	3233000	bb	143	143	84	Methylene Chloride
8	91	76	99	-2	3706500	bv	159	161	43	Acetone
9	----------	No	Trace	Found	----------			174	76	Carbon Disulfide
10	38	9	63	1	15000	bb	202	201	96	1,1-Dichloroethene
11	45	16	68	0	41000	bb	228	228	63	1,1-Dichloroethane
	33	7	68	14	953000	bb	242			
	28	0	68	-18	103000	bb	210			
12	98	84	99	0	1842000	bb	242	242	96	1,2-Dichloroethene (to
13	89	75	94	1	1008000	bb	255	254	83	Chloroform
14	27	18	34	1	111000	bb	271	270	62	1,2-Dichloroethane
15	53	2	99	1	449000	vb	271	270	43	2-Butanone
	47	14	84	-8	102000	??	262			
	41	6	84	-12	22000	b?	258			
16	82	58	98	1	53552000	bb	427	426	114	1,4-Difluorobenzene
17	----------	No	Trace	Found	----------			297	97	1,1,1-Trichloroethane
18	----------	No	Trace	Found	----------			306	117	Carbon Tetrachloride
19	----------	No	Trace	Found	----------			288	1	
20	----------	No	Trace	Found	----------			315	83	Bromodichloromethane
21	18	2	41	18	26000	bb	363	345	63	1,2-Dichloropropane
22	16	0	36	-15	3000	bb	335	350	75	cis-1,3-Dichloropropen
	15	1	36	-18	5000	bb	332			
23	94	79	99	1	18843000	bb	362	361	130	Trichloroethene
24	16	1	34	-12	22000	bb	363	375	129	Dibromochloromethane
25	69	46	85	1	225000	bb	378	377	97	1,1,2-Trichloroethane
26	26	8	41	2	114000	bb	374	372	78	Benzene
27	----------	No	Trace	Found	----------			377	75	trans-1,3-dichloroprop
28	----------	No	Trace	Found	----------			372	1	
29	----------	No	Trace	Found	----------			432	173	Bromoform
30	89	72	98	2	46830000	bv*	537	535	117	Chlorobenzene-d5
31	84	61	98	-1	37576000	bv	673	674	95	4-Bromofluorobenzene
32	81	59	94	-1	65779000	bb	508	509	98	Toluene-d8
33	57	27	80	0	11645	??	446	446	43	4-Methyl-2-Pentanone
	56	31	80	4	8529	??	450			
	55	26	79	2	7323	??	448			
34	59	32	80	-1	0	??	477	478	43	2-Hexanone
	59	34	80	-3	0	??	475			
	57	34	79	-5	2826	??	473			
35	95	81	99	-1	9133000	bb	483	484	164	Tetrachloroethene
36	40	0	75	0	196000	bb	483	483	83	1,1,2,2-Tetrachloroeth
37	44	4	80	-1	266000	bb	512	513	91	Toluene
38	22	1	42	-2	12000	bb	540	542	112	Chlorobenzene
39	----------	No	Trace	Found	----------			598	106	Ethylbenzene
40	----------	No	Trace	Found	----------			720	104	Styrene
41	----------	No	Trace	Found	----------			729	106	m-Xylene m-Xylene

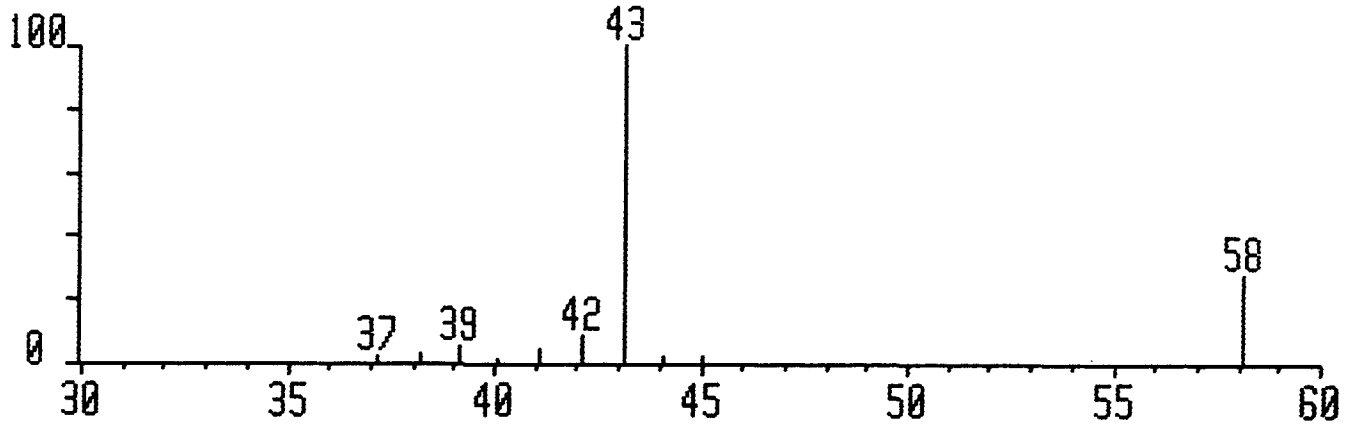
000048

41	No Trace Found	727	105	m-Xylene
42	No Trace Found	759	106	o-/p-Xylene 22431
43	No Trace Found	0	-	

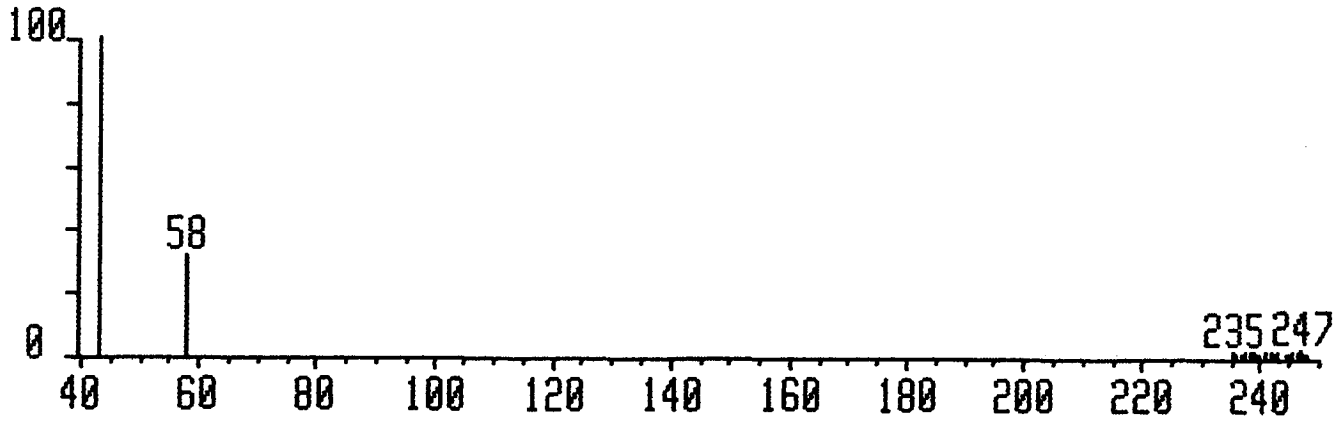
ZZ1131#159 x1 Bgd=1 12-FEB-92 20:51+0:08:43 EI+
I=151mv TIC=1652000 Acnt:
Text:PS#4_10306_Acetone



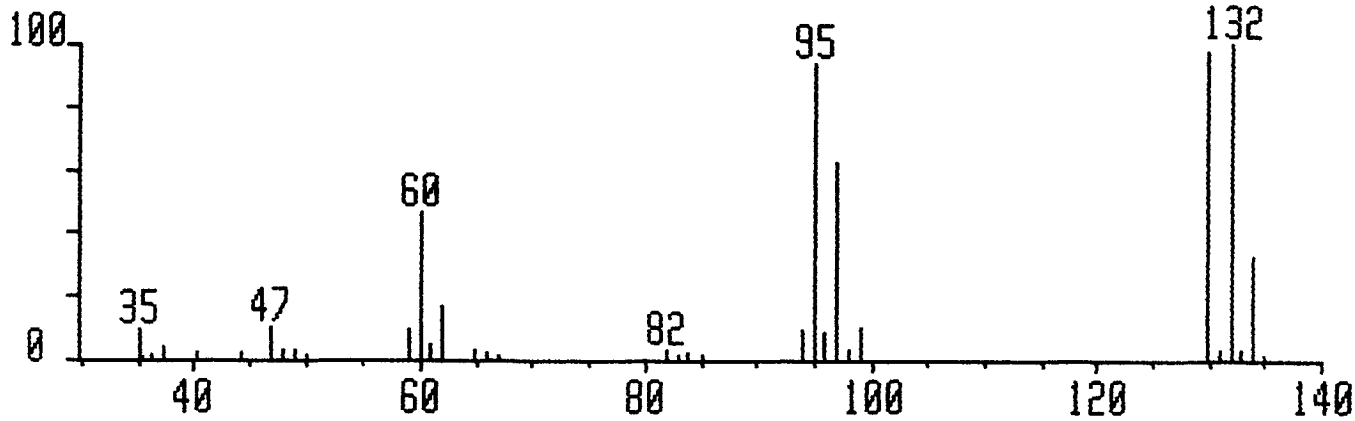
ZZ1131S#159 x1 Bgd=152 12-FEB-92 20:51+0:08:43 EI+
I=148mv TIC=1482000 SU Acnt:
Text:PS#4_10306_Acetone



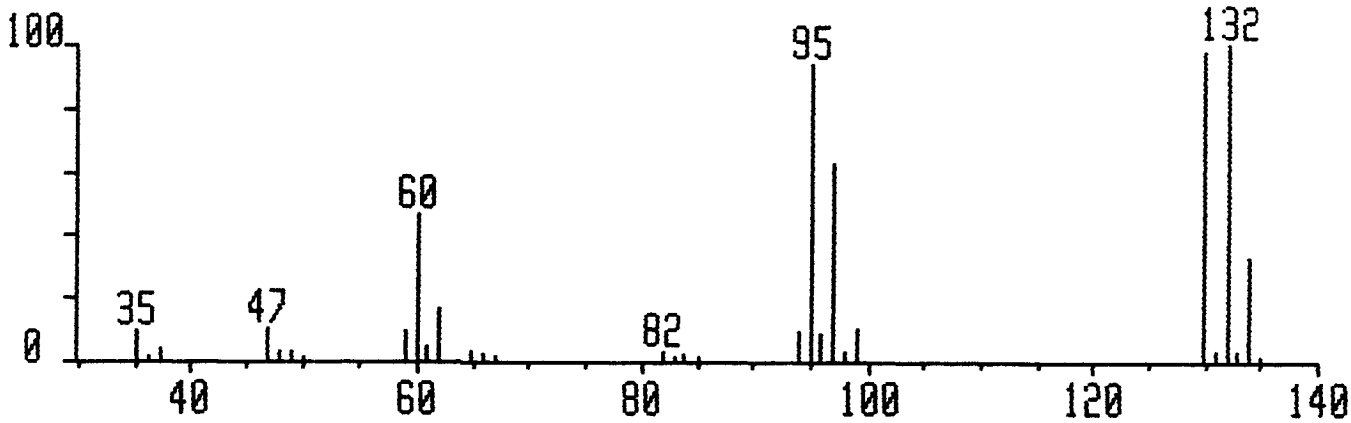
V8240#8 x1 Bgd=1 1-DEC-89 13:03+0:00:26 EI+
I=226mv TIC=11124000 Acnt:VG#2
Text:Acetone



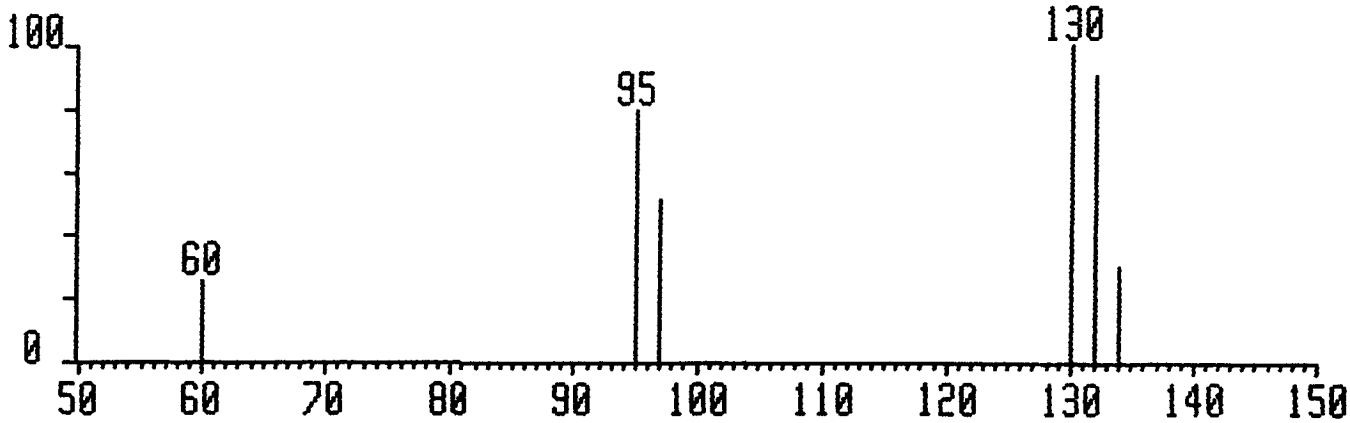
ZZ1131#362 x1 Bgd=356 12-FEB-92 20:51+0:18:57 EI+
I=708mv TIC=24869000 Acnt:
Text:PS#4_10306_Trichloroethene



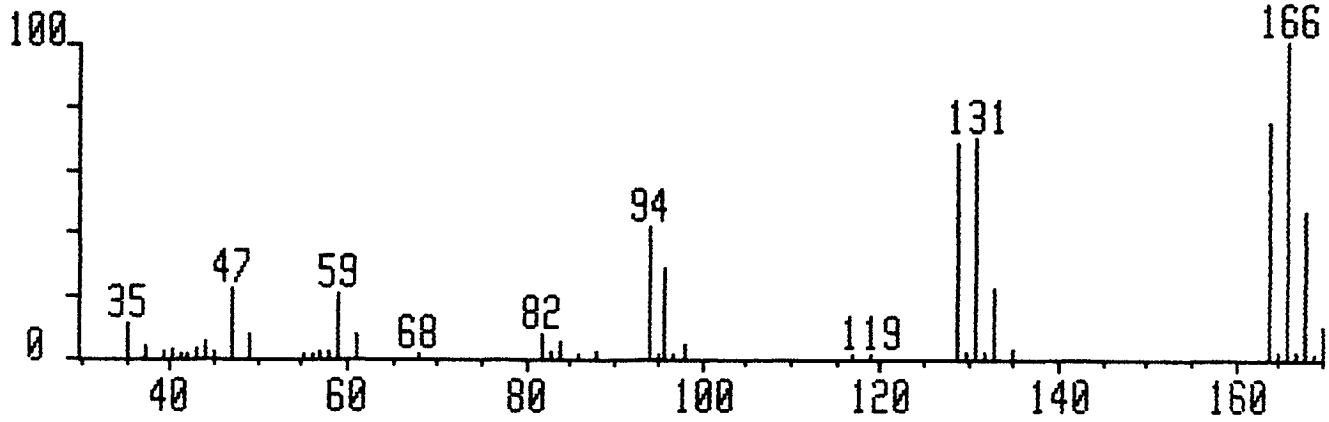
ZZ1131S#362 x1 Bgd=357 12-FEB-92 20:51+0:18:57 EI+
I=708mv TIC=24739000 SU Acnt:
Text:PS#4_10306_Trichloroethene



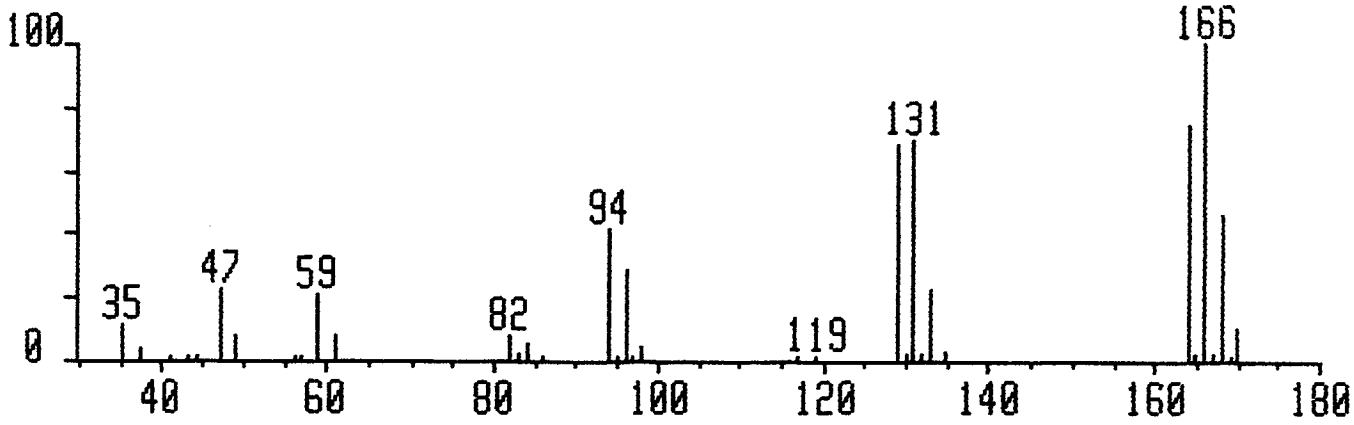
V8240#23 x1 Bgd=1 1-DEC-89 13:03+0:01:11 EI+
I=251mv TIC=11543000 Acnt:VG#2
Text:Trichloroethene



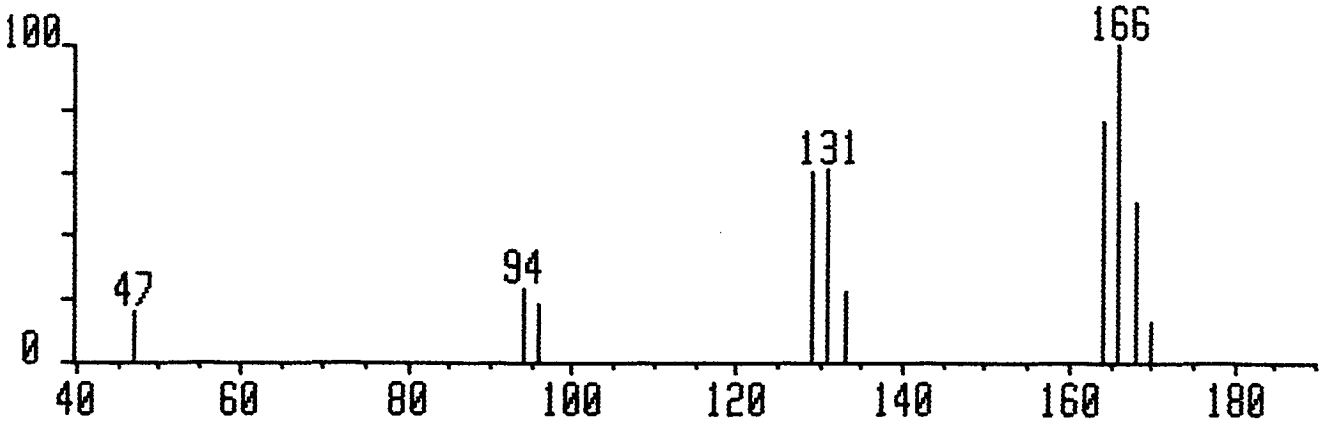
ZZ1131#483 x1 Bgd=475 12-FEB-92 20:51+0:25:03 EI+
I=464mv TIC=17766000 Acnt:
Text:PS#4_10306_Tetrachloroethene



ZZ1131S#483 x1 Bgd=477 12-FEB-92 20:51+0:25:03 EI+
I=464mv TIC=17241000 SU Acnt:
Text:PS#4_10306_Tetrachloroethene



V8240#35 x1 Bgd=1 1-DEC-89 13:03+0:01:47 EI+
I=248mv TIC=11347000 Acnt:VG#2
Text:Tetrachloroethene



ATT Results ZZ1131 TIC 20:51:00

Internal Standard	Scan	Area	Conc
Bromochloromethane	210	4591	50
1,4-Difluorobenzene	427	7497	50
Chlorobenzene-d5	537	8898	50

TIC Scan	BKG Scan	IS Scan	Area	Conc

QAE
21.3.92
KD

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SGD No.:

Instrument ID: VG#2 Calibration Date(s): 02/12/92 02/12/92

Heated Purge: (Y/N) N Calibration Times: 1011 1328

GC Column: 1%SP1000 ID: 2 (mm)

LAB FILE ID: RRF10 =ZZ1051 RRF20 =ZZ1041
RRF50=ZZ1031 RRF100=ZZ1021 RRF200=ZZ1011

COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Chloromethane	2.486	0.684	0.418	0.508	0.905	1.000	85.1
Bromomethane	* 0.489	0.463	0.454	0.438	0.458	0.460	4.0*
Vinyl Chloride	* 0.352	0.218	0.151	0.170	0.293	0.237	35.7*
Chloroethane	0.564	0.539	0.524	0.508	0.554	0.538	4.2
Methylene Chloride	8.246	5.449	3.584	3.014	2.699	4.598	50.0
Acetone	2.753	2.268	1.841	1.905	1.578	2.069	22.0
Carbon Disulfide	6.987	7.111	7.173	6.800	6.918	6.998	2.1
1,1-Dichloroethene	* 2.395	2.294	2.122	2.126	2.109	2.209	5.8*
1,1-Dichloroethane	* 4.920	4.856	4.799	4.672	4.501	4.750	3.5*
1,2-Dichloroethene (total)	2.437	2.528	2.394	2.444	2.334	2.427	2.9
Chloroform	* 5.127	5.107	4.691	4.560	4.540	4.805	6.1*
1,2-Dichloroethane	* 3.808	3.802	3.552	3.425	3.202	3.558	7.3*
2-Butanone	2.863	2.839	2.425	2.571	2.080	2.556	12.6
1,1,1-Trichloroethane	* 0.639	0.665	0.629	0.610	0.614	0.631	3.5*
Carbon Tetrachloride	* 0.448	0.480	0.460	0.454	0.451	0.459	2.8*
Bromodichloromethane	* 0.675	0.674	0.662	0.680	0.667	0.672	1.1*
1,2-Dichloropropane	0.574	0.560	0.518	0.495	0.497	0.529	6.9
cis-1,3-Dichloropropene	* 0.788	0.827	0.796	0.800	0.776	0.797	2.4*
Trichloroethene	* 0.429	0.465	0.437	0.443	0.435	0.442	3.1*
Dibromochloromethane	* 0.401	0.421	0.415	0.411	0.378	0.405	4.2*
1,1,2-Trichloroethane	* 0.396	0.394	0.376	0.368	0.353	0.377	4.8*
Benzene	* 1.718	1.689	1.623	1.600	1.400	1.606	7.8*
trans-1,3-dichloropropene	* 0.774	0.743	0.720	0.698	0.665	0.720	5.8*
Bromoform	* 0.099	0.112	0.129	0.137	0.147	0.125	15.4*
4-Methyl-2-Pentanone	0.600	0.619	0.595	0.582	0.533	0.586	5.5
2-Hexanone	0.554	0.561	0.575	0.559	0.528	0.555	3.1
Tetrachloroethene	* 0.336	0.341	0.354	0.333	0.333	0.339	2.6*
1,1,2,2-Tetrachloroethane	* 0.546	0.556	0.574	0.565	0.544	0.557	2.3*
Toluene	* 1.738	1.687	1.659	1.649	1.675	1.682	2.1*
Chlorobenzene	* 1.099	1.177	1.152	1.069	1.067	1.113	4.5*
Ethylbenzene	* 0.598	0.638	0.608	0.598	0.581	0.605	3.5*
Styrene	* 1.252	1.278	1.291	1.204	1.192	1.243	3.5*
Xylene (total)	* 0.750	0.730	0.733	0.729	0.678	0.724	3.7*
Toluene-d8	1.518	1.476	1.368	1.301	1.307	1.394	7.1
4-Bromofluorobenzene	* 0.735	0.758	0.727	0.722	0.699	0.728	2.9*
1,2-Dichloroethane-d4	3.473	3.523	3.168	3.114	2.914	3.238	7.9

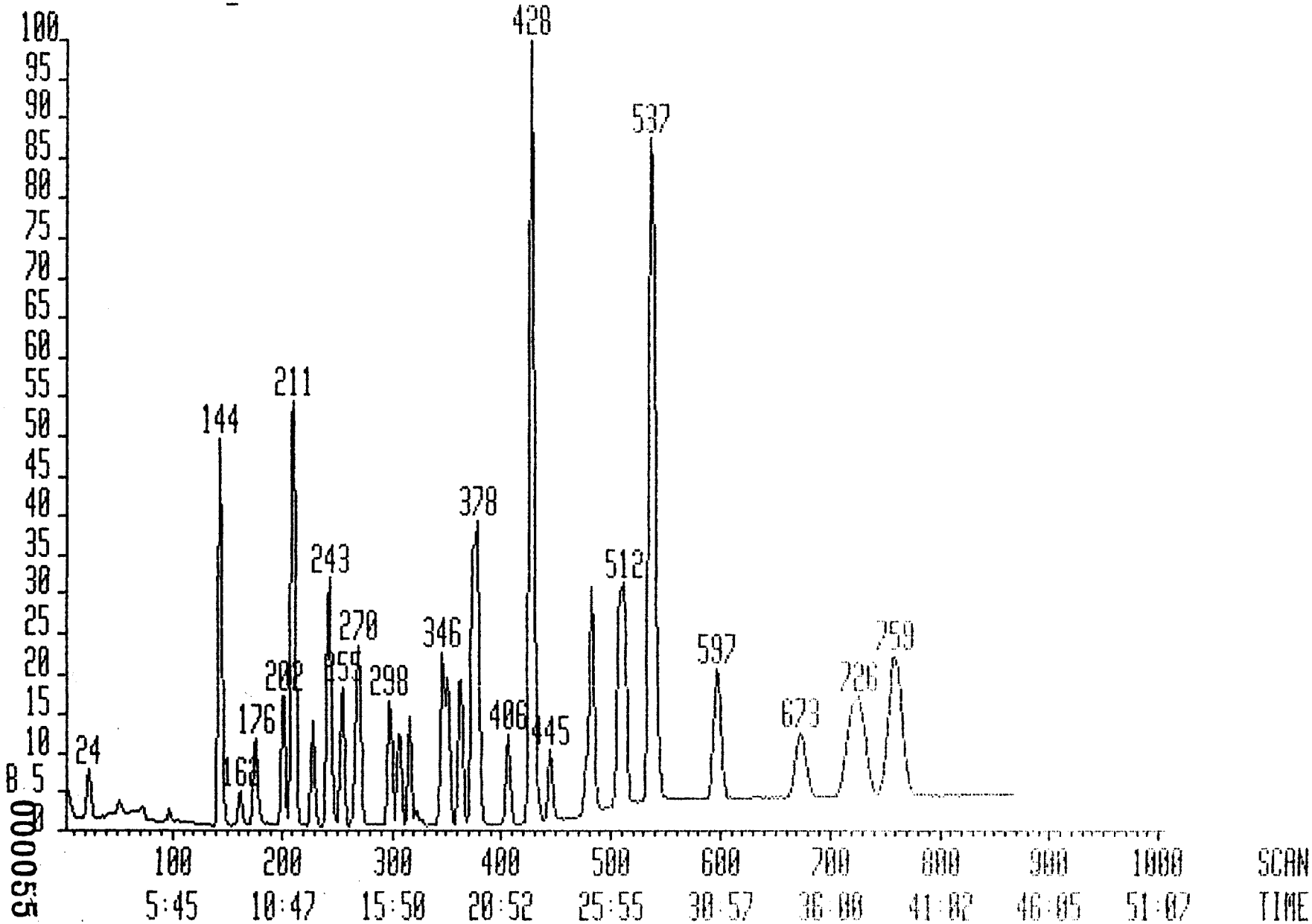
* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

FORM VI VOA

ZZ1051 #5-869 12-FEB-92 13:28 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 25907000

Text:VSTS010_ 00010



000055

Interim Report Sample Analysis 12-FEB-92 14:18:04

Datafile: ZZ1051 12-FEB-92 13:28
Database: VOA91R
Library: VOA91

Instrument: VG#2
Account:
Text: VSTS010_ 00010

QRE 2/12/92 KD.

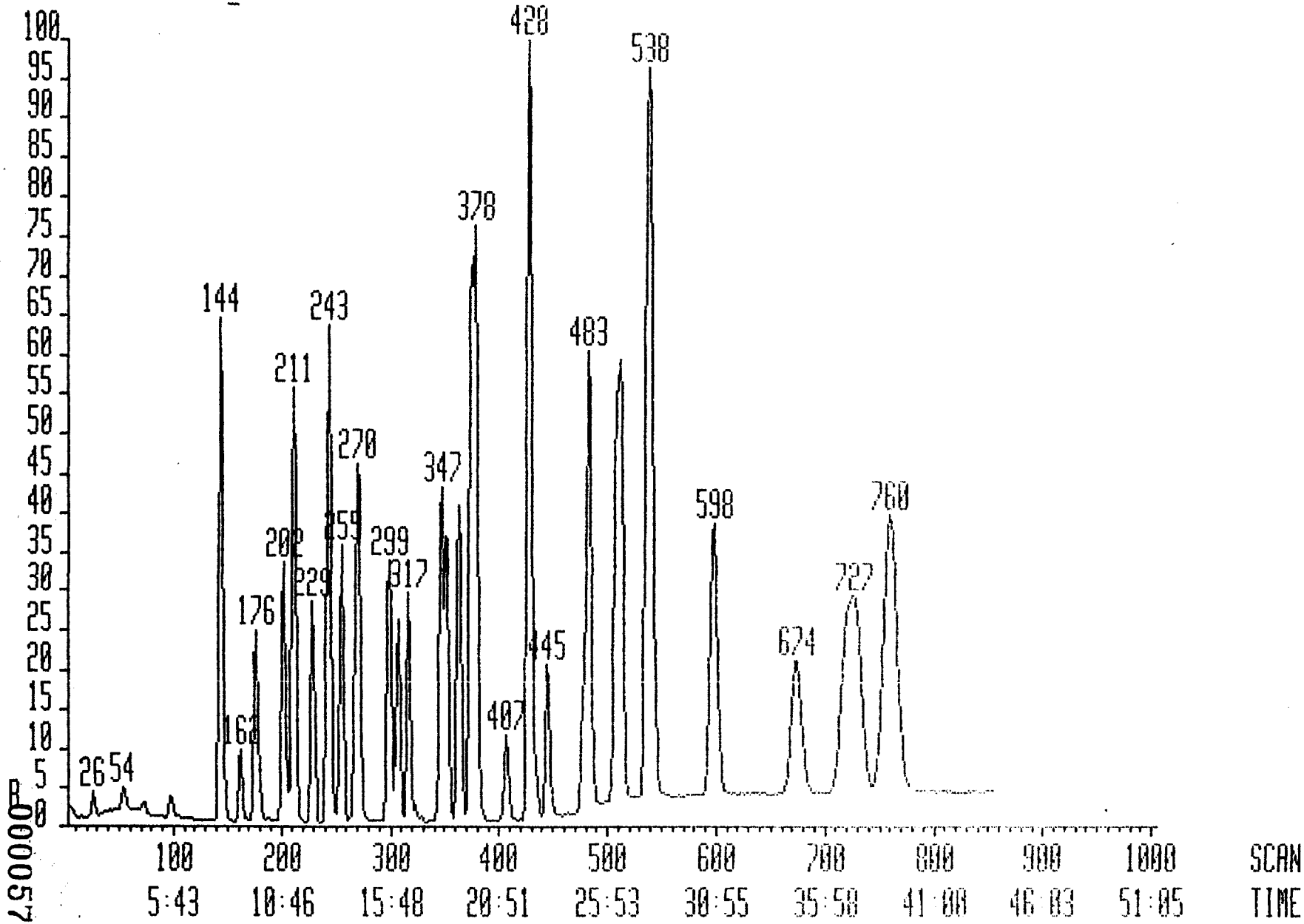
No.	Rank	Spectrum Match	Spectrum Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	100	92	99	1	7025000	bb	211	210	128	Bromochloromethane
2	88	86	99	0	4879000	bb	268	268	65	1,2-Dichloroethane-d4
3	89	69	99	-1	3493000	bb	24	25	50	Chloromethane
4	75	44	99	-1	687000	bb	52	53	94	Bromomethane
5	63	20	99	-1	494000	bb	72	73	62	Vinyl Chloride
	63	20	99	1	494000	bb	74			
6	87	64	99	0	793000	bb	97	97	64	Chloroethane
7	96	85	95	0	11586000	bb	144	144	84	Methylene Chloride
8	71	58	75	0	3868610	vv	162	162	43	Acetone
	48	12	94	-12	27000	b?	150			
	42	13	75	-8	8750	??	154			
9	91	81	90	0	9817000	bb	176	176	76	Carbon Disulfide
10	98	86	99	-1	3365000	bb	201	202	96	1,1-Dichloroethene
11	91	74	99	-1	6912000	bb	228	229	63	1,1-Dichloroethane
12	99	86	99	0	6847000	bb	243	243	96	1,2-Dichloroethene (to
13	98	87	99	-1	7204000	bb	255	256	83	Chloroform
14	84	63	95	0	5350000	bb	271	271	62	1,2-Dichloroethane
15	62	18	99	-1	4023000	bv	270	271	43	2-Butanone
	44	11	84	-10	52000	bb	261			
	41	18	84	19	161000	??	290			
16	80	56	98	-2	42037000	bb*	428	430	114	1,4-Difluorobenzene
17	97	83	99	0	5373000	bb	298	298	97	1,1,1-Trichloroethane
18	98	88	98	1	3764000	vb	307	306	117	Carbon Tetrachloride
19	----------		No	Trace	Found	----------		288	1	
20	96	80	99	0	5675000	bb	316	316	83	Bromodichloromethane
21	97	83	98	0	4828000	bb	346	346	63	1,2-Dichloropropane
22	93	76	97	0	6623000	bb	351	351	75	cis-1,3-Dichloropropen
23	93	78	99	1	3606000	bb	363	362	130	Trichloroethene
24	66	24	99	0	3374000	bb	376	376	129	Dibromochloromethane
25	74	39	99	0	3328000	bb	378	378	97	1,1,2-Trichloroethane
26	88	71	96	1	14442000	bb	374	373	78	Benzene
27	70	36	96	1	6510000	bb	379	378	75	trans-1,3-dichloroprop
28	----------		No	Trace	Found	----------		372	1	
29	81	54	98	0	833000	bb	433	433	173	Bromoform
30	87	66	98	1	35162000	bv	537	536	117	Chlorobenzene-d5
31	75	45	98	-1	5166000	bb	673	674	95	4-Bromofluorobenzene
32	83	57	99	0	10673000	bb	508	508	98	Toluene-d8
33	98	87	99	-1	4221615	vb	445	446	43	4-Methyl-2-Pentanone
34	96	81	99	0	3897614	vv	478	478	43	2-Hexanone
35	80	53	98	-1	2364000	bb	483	484	164	Tetrachloroethene
36	64	22	99	-1	3841000	bb	482	483	83	1,1,2,2-Tetrachloroeth
37	89	69	99	-1	12224000	bv	512	513	91	Toluene
38	72	36	99	0	7730000	bb	541	541	112	Chlorobenzene
39	87	65	99	-1	4206000	bb	597	598	106	Ethylbenzene
40	84	60	98	0	4006000	b?	717	717	104	Styrene KD 2/12/92
	82	59	98	2	5630000	?b	719			880455
41	82	59	98	2	2864429	?b	729	727	106	m-Xylene 5278
42	90	70	99	0	5976892	?b	760	760	106	o-/p-Xylene 10716635
43	----------		No	Trace	Found	----------		0	-	

000056

ZZ1041 #5-855 12-FEB-92 12:40 VG#2 (EI+) Sys VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 26773000

Text:VSTD020_ 00020



Interim Report · Sample Analysis 12-FEB-92 13:37:36

Datafile: ZZ1041 12-FEB-92 12:40
Database: VOA91R
Library: VOA91

Instrument: VG#2
Account:
Text: VSTD020_ 00020

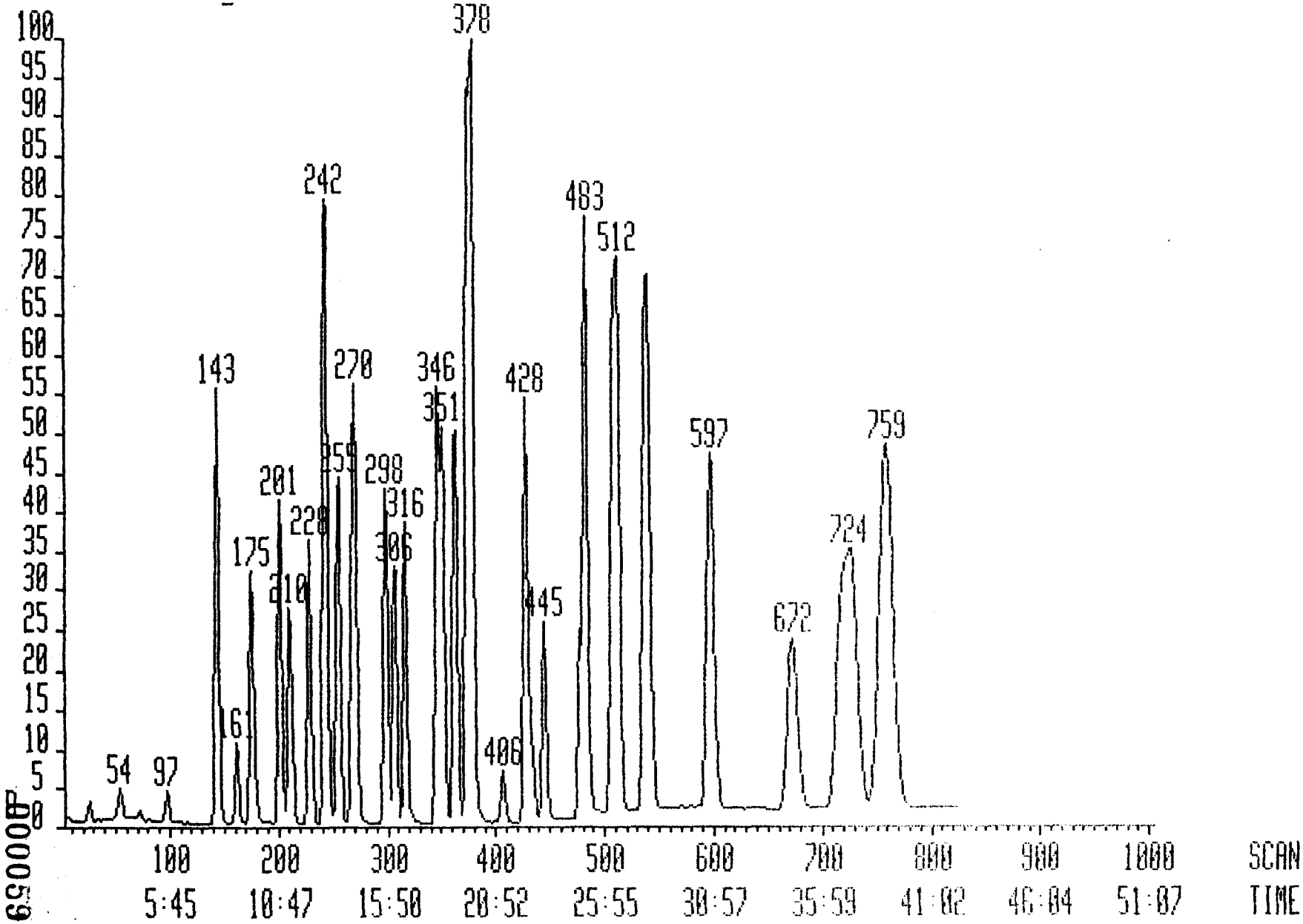
QAE 2/12/92 KD

No.	Rank	Spectrum Match	Spectrum Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	100	92	99	1	7138000	bb	211	210	128	Bromochloromethane
2	94	76	99	0	10052000	bb	268	268	65	1,2-Dichloroethane-d4
3	62	43	74	1	1953000	bb	26	25	50	Chloromethane
4	82	57	99	1	1321000	bb	54	53	94	Bromomethane
5	68	28	99	0	622000	bb	73	73	62	Vinyl Chloride
6	90	70	99	0	1539000	bb	97	97	64	Chloroethane
7	97	86	95	0	15547000	bb	144	144	84	Methylene Chloride
8	97	83	99	0	6472369	vv*	162	162	43	Acetone
9	100	91	99	0	20288000	bb	176	176	76	Carbon Disulfide
10	99	86	99	0	6545000	bb	202	202	96	1,1-Dichloroethene
11	92	73	99	0	13854000	bb	229	229	63	1,1-Dichloroethane
12	98	84	99	0	14428000	bb*	243	243	96	1,2-Dichloroethene (to
13	98	86	99	-1	14572000	bb	255	256	83	Chloroform
14	83	61	94	0	10847000	bb	271	271	62	1,2-Dichloroethane
15	63	19	99	0	8100000	vv	271	271	43	2-Butanone
	43	6	84	-8	28000	b?	263			
	37	0	84	-13	10000	bb	258			
16	80	56	98	-2	42910000	bb*	428	430	114	1,4-Difluorobenzene
17	97	84	99	1	11412000	bb	299	298	97	1,1,1-Trichloroethane
18	98	88	98	1	8246000	vb	307	306	117	Carbon Tetrachloride
19	----------		No	Trace	Found	----------		288	1	
20	94	79	99	1	11576000	bb	317	316	83	Bromodichloromethane
21	95	82	98	1	9604000	bb	347	346	63	1,2-Dichloropropane
22	91	76	97	1	14190000	bb	352	351	75	cis-1,3-Dichloropropen
23	94	79	99	1	7974000	bb	363	362	130	Trichloroethene
24	65	23	99	0	7227000	bb	376	376	129	Dibromochloromethane
25	72	39	98	1	6757000	bb	379	378	97	1,1,2-Trichloroethane
26	89	73	95	1	28996000	bb	374	373	78	Benzene
27	70	35	97	1	12754000	bb	379	378	75	trans-1,3-dichloroprop
28	----------		No	Trace	Found	----------		372	1	
29	91	75	98	1	1928000	bb	434	433	173	Bromoform
30	86	65	98	1	36455000	bb	537	536	117	Chlorobenzene-d5
31	81	54	97	0	11053000	bb	674	674	95	4-Bromofluorobenzene
32	85	60	99	0	21529000	bb	508	508	98	Toluene-d8
33	100	90	99	-1	9030200	vv	445	446	43	4-Methyl-2-Pentanone
34	99	87	99	0	8181872	vv	478	478	43	2-Hexanone
35	80	54	98	-1	4968000	bb	483	484	164	Tetrachloroethene
36	65	22	99	0	8112000	bb	483	483	83	1,1,2,2-Tetrachloroeth
37	90	71	99	-1	24595000	bb	512	513	91	Toluene
38	80	53	99	1	17169000	bb	542	541	112	Chlorobenzene
39	91	71	99	0	9310000	bb	598	598	106	Ethylbenzene
40	87	68	99	2	18640000	bb	719	717	104	Styrene KD 2/12/92
41	86	70	98	3	5565000	?b	730	727	106	m-Xylene 10644213
42	92	76	99	-1	21259000	bb	759	760	106	o-/p-Xylene
43	----------		No	Trace	Found	----------		0	-	

ZZ1031 #5-824 12-FEB-92 11:51 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 55216000

Text:VSTD050_ 00050



00005B

Interim Report Sample Analysis 12-FEB-92 12:49:56

Datafile: ZZ1031 12-FEB-92 11:51
Database: VOA91R
Library: VOA91

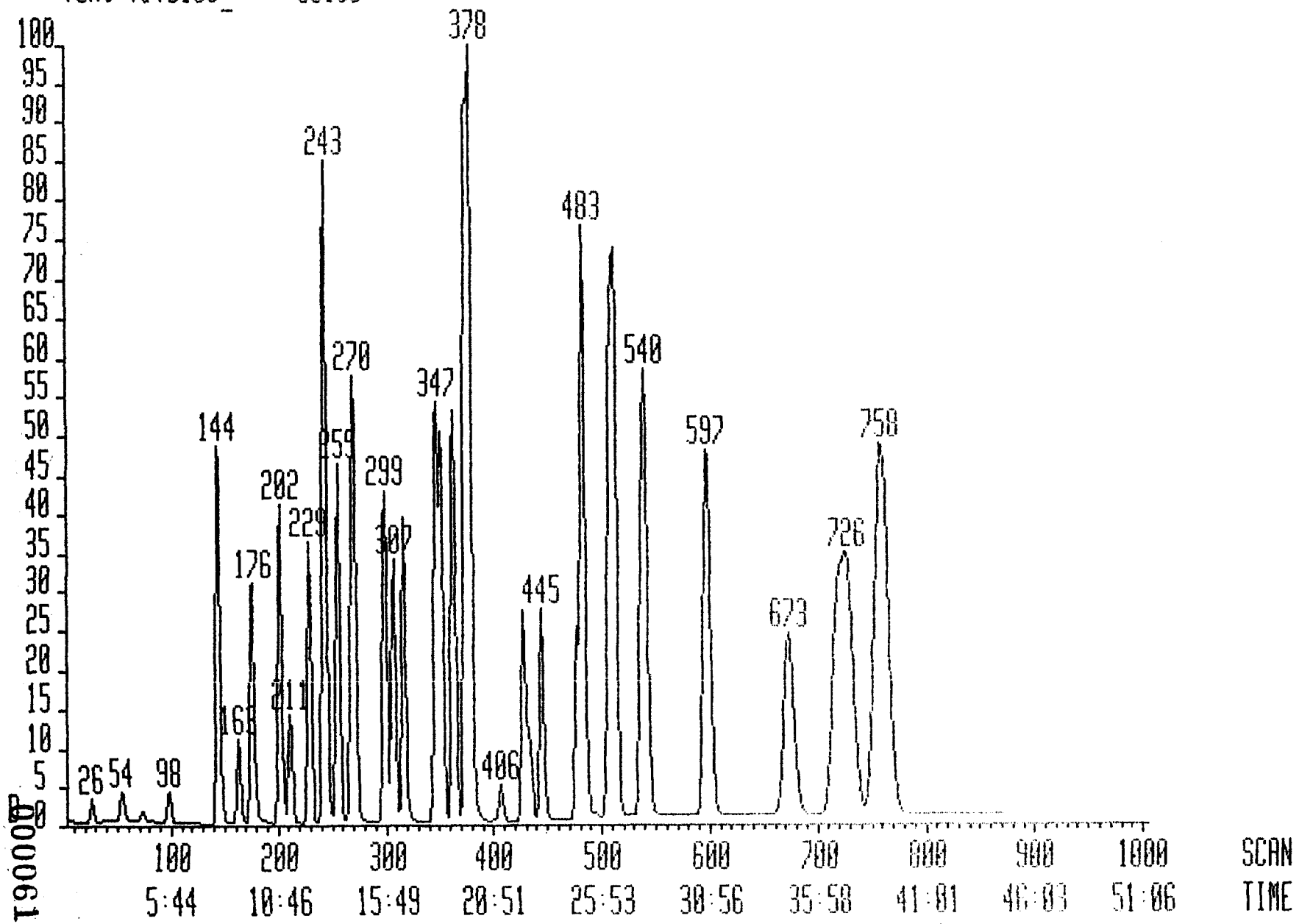
Instrument: VG#2
Account:
Text: VSTD050_ 00050

No.	Rank	Spectrum Match	Fit	Scan Diff	Peak Area	Flgs	Scan Found	Pred	Quan m/z	Compound Name
1	97	87	95	0	7896000	bb	210	210	128	Bromochloromethane
2	86	63	99	1	25014000	bv	268	267	65	1,2-Dichloroethane-d4
3	65	48	74	0	3297000	bb	25	25	50	Chloromethane
4	91	74	99	1	3584000	bb	54	53	94	Bromomethane
5	74	39	99	0	1194000	bb	73	73	62	Vinyl Chloride
6	93	75	99	0	4137000	bb	97	97	64	Chloroethane
7	97	86	95	0	28303000	bb	143	143	84	Methylene Chloride
8	97	83	99	0	14540370	bv*	161	161	43	Acetone
9	100	91	99	0	56639160	bv	175	175	76	Carbon Disulfide
10	98	85	99	0	16754000	bb	201	201	96	1,1-Dichloroethene
11	93	74	99	0	37892000	bv	228	228	63	1,1-Dichloroethane
12	98	84	99	0	37812000	bv	242	242	96	1,2-Dichloroethene (to
13	98	86	99	-1	37042000	bb	254	255	83	Chloroform
14	82	60	94	0	28049000	bb	270	270	62	1,2-Dichloroethane
15	63	18	99	0	19150480	vv*	270	270	43	2-Butanone
	45	28	84	19	217481	?b	289			
	42	4	84	-8	0	??	262			
16	82	56	98	0	48256000	bb*	428	428	114	1,4-Difluorobenzene
17	98	84	99	0	30369000	bb	298	298	97	1,1,1-Trichloroethane
18	99	88	98	0	22216000	vb	306	306	117	Carbon Tetrachloride
19	----------		No	Trace	Found	----------		288	1	
20	95	79	99	0	31924000	bv	316	316	83	Bromodichloromethane
21	96	82	98	0	24998000	bb	346	346	63	1,2-Dichloropropane
22	93	77	97	0	38403500	bb	351	351	75	cis-1,3-Dichloropropen
23	95	79	99	0	21100000	bv	362	362	130	Trichloroethene
24	66	24	99	0	20029000	bb	376	376	129	Dibromochloromethane
25	73	38	98	0	18136000	vv	378	378	97	1,1,2-Trichloroethane
26	91	76	95	0	78325000	bb	373	373	78	Benzene
27	70	34	97	0	34728780	bv	378	378	75	trans-1,3-dichloroprop
28	----------		No	Trace	Found	----------		372	1	
29	97	83	99	0	6208000	bb	433	433	173	Bromoform
30	84	59	98	0	39801000	bv	536	536	117	Chlorobenzene-d5
31	83	60	98	-1	28936000	bv	672	673	95	4-Bromofluorobenzene
32	84	60	99	1	54434000	bb	508	507	98	Toluene-d8
33	100	90	99	0	23672300	vv	445	445	43	4-Methyl-2-Pentanone
34	98	86	99	1	22900500	bb*	478	477	43	2-Hexanone
35	82	56	98	0	14096000	bb	483	483	164	Tetrachloroethene
36	66	25	99	0	22830000	bb	482	482	83	1,1,2,2-Tetrachloroeth
	36	2	84	16	13000	?b	498			
37	94	76	99	0	66024000	bv	512	512	91	Toluene
38	86	63	99	1	45849500	bv	541	540	112	Chlorobenzene
39	91	74	99	-1	24185000	bb	596	597	106	Ethylbenzene
40	95	79	99	0	51363500	bb	716	716	104	Styrene
41	90	75	98	2	29181500	bb	728	726	106	m-Xylene
42	95	81	99	-1	58947000	bb	758	759	106	o-/p-Xylene
43	----------		No	Trace	Found	----------		0	-	

ZZ1021 #5-870 12-FEB-92 11:03 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 109324000

Text:VSTD100_ 00100



T90061

Interim Report · Sample Analysis 12-FEB-92 12:10:14

Datafile: ZZ1021 12-FEB-92 11:03
Database: VOA91R
Library: VOA91

Instrument: VG#2
Account:
Text: VSTD100_ 00100

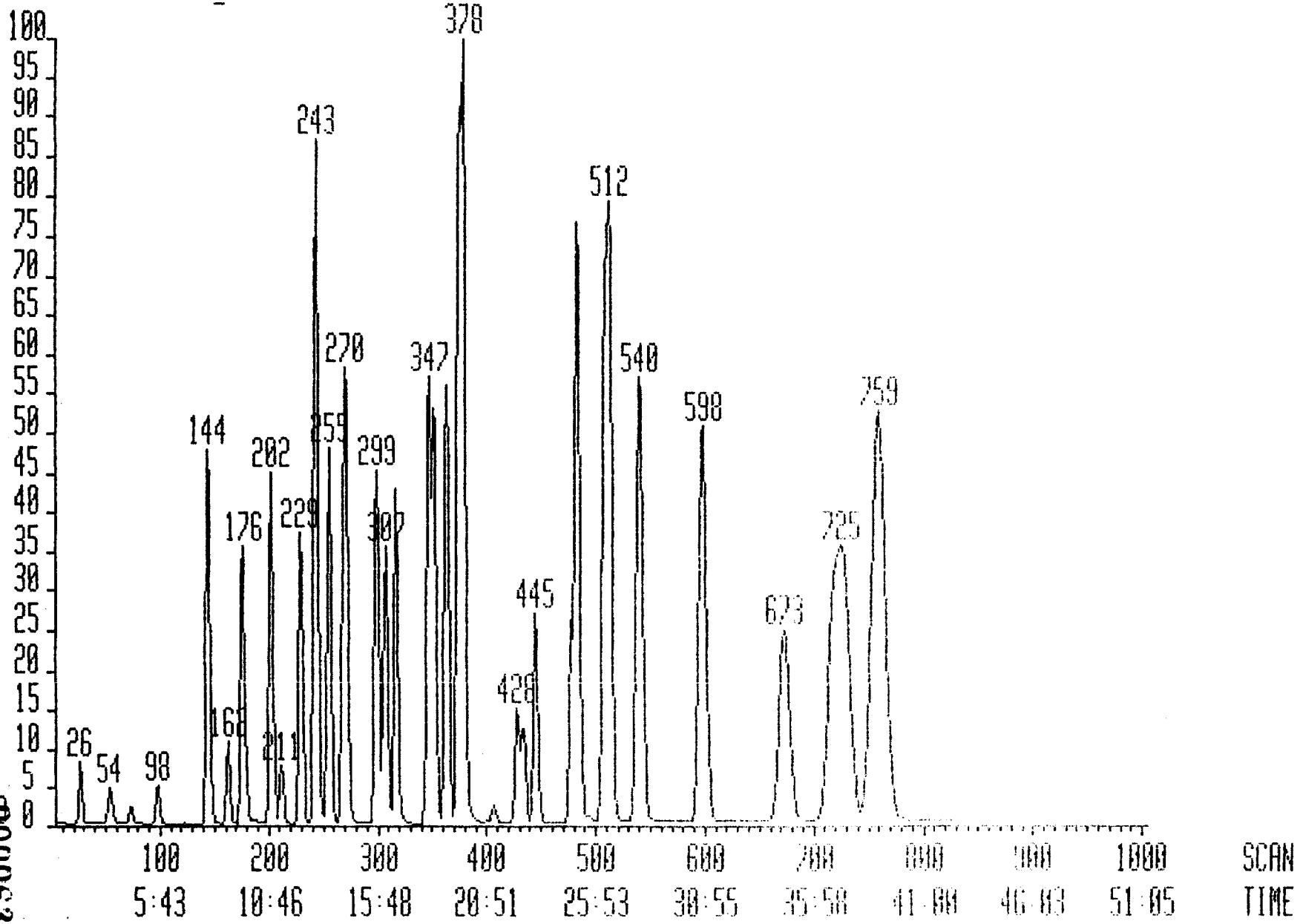
QRE 2/12/92

No.	Rank	Spectrum Match	Spectrum Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	96	87	98	1	7961000	bb	211	210	126	Bromochloromethane
2	92	72	99	0	49582000	bv	268	268	65	1,2-Dichloroethane-d4
3	67	52	74	1	8091000	bb	26	25	50	Chloromethane
4	96	82	99	1	6973000	bb	54	53	94	Bromomethane
5	82	54	99	0	2714000	bb	73	73	62	Vinyl Chloride
6	93	78	99	1	8085000	bb	98	97	64	Chloroethane
7	100	89	98	0	47992000	bb	144	144	84	Methylene Chloride
8	97	84	99	1	30325680	vv*	163	162	43	Acetone
9	100	91	99	0	108268000	bb	176	176	76	Carbon Disulfide
10	98	85	99	0	33856000	bb	202	202	96	1,1-Dichloroethene
11	93	74	99	0	74394880	bv	229	229	63	1,1-Dichloroethane
12	98	84	99	0	77821820	bv*	243	243	96	1,2-Dichloroethene (to
13	98	86	99	-1	72603000	bv	255	256	83	Chloroform
14	83	60	95	0	54539000	bv	271	271	62	1,2-Dichloroethane
15	64	21	99	0	40941710	vv*	271	271	43	2-Butanone
	55	38	99	19	349590	??	290			
	42	3	84	-8	22000	??	263			
16	80	56	98	-2	47787000	bb*	428	430	114	1,4-Difluorobenzene
17	96	83	99	1	58277000	bb	299	298	97	1,1,1-Trichloroethane
18	98	87	98	1	43428000	vb	307	306	117	Carbon Tetrachloride
19	----------		No	Trace	Found	----------		288	1	
20	94	79	99	1	64947500	bb	317	316	83	Bromodichloromethane
21	94	81	98	1	47287000	bv	347	346	63	1,2-Dichloropropane
22	93	76	98	0	76447010	bb	351	351	75	cis-1,3-Dichloropropen
23	94	79	99	1	42315540	bv	363	362	130	Trichloroethene
24	66	25	99	0	39266000	bb	376	376	129	Dibromochloromethane
25	73	38	99	0	35198730	vv	378	378	97	1,1,2-Trichloroethane
26	88	71	95	1	152958100	bv	374	373	78	Benzene
27	70	35	97	1	66694220	bv	379	378	75	trans-1,3-dichloroprop
28	----------		No	Trace	Found	----------		372	1	
29	99	86	99	0	13055000	bb	433	433	173	Bromoform
30	81	54	98	0	41455000	bb*	536	536	117	Chlorobenzene-d5
31	86	63	98	0	59899710	bv	673	673	95	4-Bromofluorobenzene
32	84	61	99	1	107825000	bb	508	507	98	Toluene-d8
33	100	90	99	0	48262300	vv	445	445	43	4-Methyl-2-Pentanone
34	100	90	99	0	46379090	vv*	477	477	43	2-Hexanone
35	82	55	98	0	27577000	bb	483	483	164	Tetrachloroethene
36	67	27	99	0	46851000	bv	482	482	83	1,1,2,2-Tetrachloroeth
37	94	76	99	0	136689100	bv	512	512	91	Toluene
38	88	68	99	1	88630000	bb	541	540	112	Chlorobenzene KJ 2/12/92
39	94	77	99	0	49574000	bb	597	597	106	Ethylbenzene
40	93	79	99	2	58460100	b?	718	716	104	Styrene 99817864
41	91	79	99	3	31613180	?b	729	726	106	m-Xylene 60447980
42	97	83	99	0	113738400	bv	759	759	106	o-/p-Xylene
43	----------		No	Trace	Found	----------		0	-	

ZZ1011 #5-827 12-FEB-92 10:11 VG#2 (EI+) Sys:V0N91 IHP

Chromatogram Identifiers : B1:35:260 B: 230158192

Text:VSTD200_ 00200



000063

Interim Report Sample Analysis 12-FEB-92 11:12:31

Datafile: ZZ1011 12-FEB-92 10:11
Database: VOA91R
Library: VOA91

Instrument: VG#2
Account:
Text: VSTD200_ 00200

QRE 2/12/92 KD

No.	Rank	Spectrum Match	Spectrum Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	96	86	95	1	9203000	bb	211	210	128	Bromochloromethane
2	94	76	99	0	107288000	bv	268	268	65	1,2-Dichloroethane-d4
3	95	81	99	1	33323000	bb	26	25	50	Chloromethane
4	98	87	99	1	16853000	bb	54	53	94	Bromomethane
5	89	70	99	1	10800000	bb	74	73	62	Vinyl Chloride
6	94	80	99	1	30403000	bb	98	97	64	Chloroethane
7	100	90	98	0	99372000	bb*	144	144	84	Methylene Chloride
8	98	84	99	0	38105510	vv*	162	162	43	Acetone
9	100	91	99	0	234647400	bv*	176	176	76	Carbon Disulfide
10	99	86	99	0	77627000	bv	202	202	96	1,1-Dichloroethene
11	92	73	99	0	165688200	bv	229	229	63	1,1-Dichloroethane
12	98	85	99	0	171867600	bv*	243	243	96	1,2-Dichloroethene (to
13	98	86	99	-1	167141000	bv	255	256	83	Chloroform
14	84	62	96	0	117587700	bv	271	271	62	1,2-Dichloroethane
15	63	19	99	0	76581310	vv*	271	271	43	2-Butanone
	41	1	84	-7	31000	b?	264			
	33	0	77	-15	536455	vb	256			
16	80	56	98	-2	54430000	bv*	428	430	114	1,4-Difluorobenzene
17	96	84	98	1	133740000	bb	299	298	97	1,1,1-Trichloroethane
18	98	88	98	1	98221000	vb	307	306	117	Carbon Tetrachloride
19	---------- No Trace Found ----------							288	1	
20	94	79	99	1	145178400	vb	317	316	83	Bromodichloromethane
21	94	81	98	1	108274700	bv	347	346	63	1,2-Dichloropropane
22	93	76	98	0	168943600	bb	351	351	75	cis-1,3-Dichloropropen
23	94	79	99	1	94813650	bv	363	362	130	Trichloroethene
24	67	26	99	0	82259000	bb	376	376	129	Dibromochloromethane
25	74	42	99	1	76759370	vv	379	378	97	1,1,2-Trichloroethane
26	94	79	96	0	304877400	bv	373	373	78	Benzene
27	70	35	97	1	144756100	bv	379	378	75	trans-1,3-dichloroprop
28	---------- No Trace Found ----------							372	1	
29	100	88	99	0	32041000	bb	433	433	173	Bromoform
30	78	47	98	0	46611000	bv*	536	536	117	Chlorobenzene-d5
31	87	64	98	0	82680180	?v	673	673	95	4-Bromofluorobenzene
	84	64	98	-2	60614180	b?	671	130308736 KD 2/12/92		
32	84	62	98	1	243741100	bb	508	507	98	Toluene-d8
33	100	90	99	0	99343060	vv*	445	445	43	4-Methyl-2-Pentanone
34	99	89	99	1	98353980	bv*	478	477	43	2-Hexanone
35	83	59	98	1	62161000	bb	484	483	164	Tetrachloroethene
36	65	25	99	1	101432700	bv	483	482	83	1,1,2,2-Tetrachloroeth
37	94	79	99	1	312337500	bv	513	512	91	Toluene
38	89	70	99	1	198908100	bv	541	540	112	Chlorobenzene
39	95	78	99	0	108318000	bb	597	597	106	Ethylbenzene
40	96	82	99	1	222173200	bb	717	716	104	Styrene
41	93	79	99	2	126412000	bb	728	726	106	m-Xylene
42	97	84	99	-1	251096100	bb	758	759	106	o-/p-Xylene
43	---------- No Trace Found ----------							0	-	

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

Instrument ID: VG#2 Calibration Date: 02/12/92 Time: 1416

Lab File ID: ZZ1061 Init. Calib. Date(s): 02/12/92 02/12/92

Heated Purge: (Y/N) N Init. Calib. Times: 1011 1328

GC Column: 1%SP1000 ID: 2 (mm)

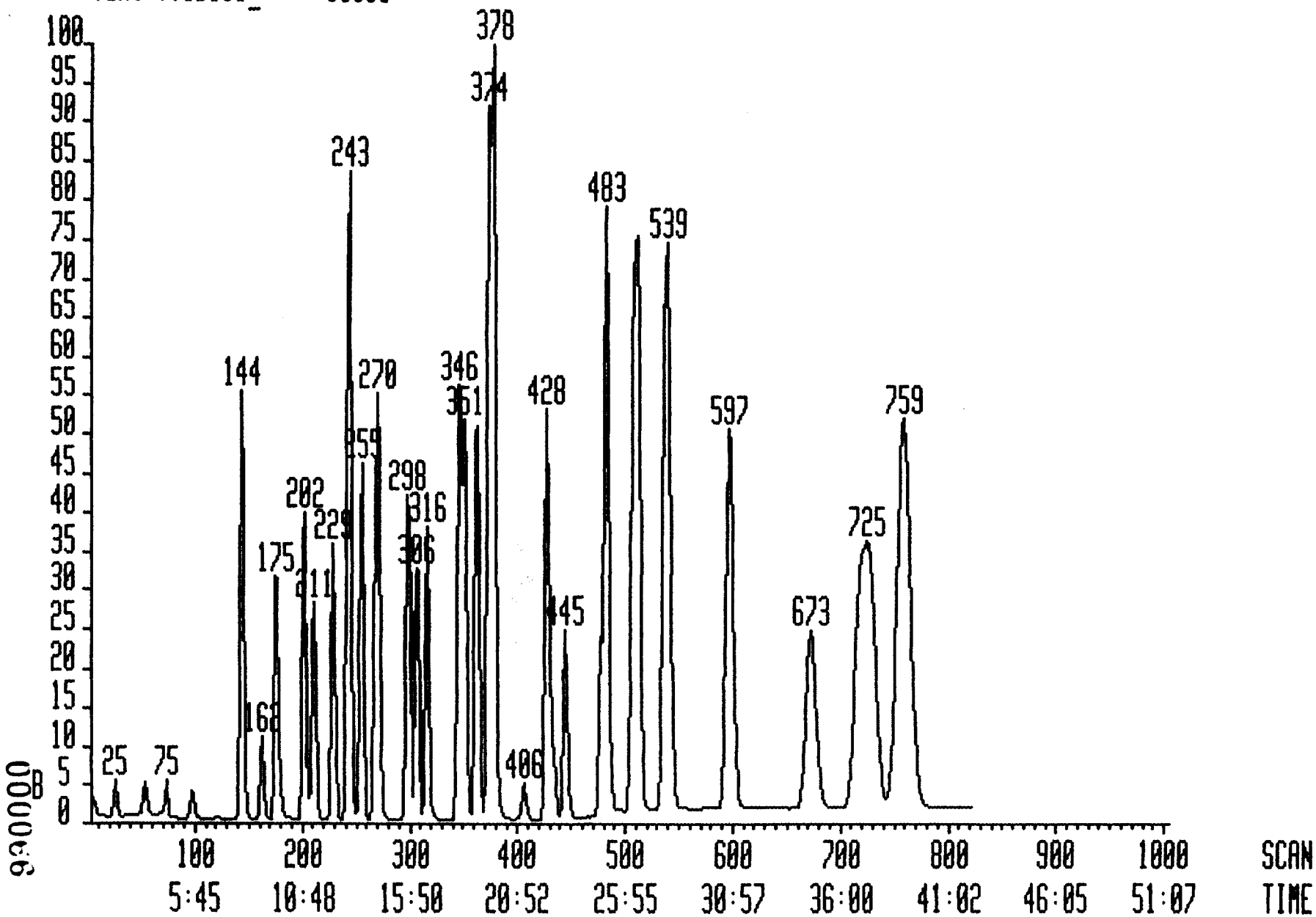
COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	1.000	0.817		18.0	
Bromomethane	0.460	0.516	0.100	-12.0	25.0
Vinyl Chloride	0.237	0.256	0.100	-8.0	25.0
Chloroethane	0.538	0.613		-14.0	
Methylene Chloride	4.598	3.683		20.0	
Acetone	2.069	2.062		0.0	
Carbon Disulfide	6.998	7.665		-10.0	
1,1-Dichloroethene	2.209	2.251	0.100	-2.0	25.0
1,1-Dichloroethane	4.750	5.021	0.200	-6.0	25.0
1,2-Dichloroethene (total)	2.427	2.656		-9.0	
Chloroform	4.805	5.140	0.200	-7.0	25.0
1,2-Dichloroethane	3.558	3.680	0.100	-3.0	25.0
2-Butanone	2.556	2.483		3.0	
1,1,1-Trichloroethane	0.631	0.625	0.100	1.0	25.0
Carbon Tetrachloride	0.459	0.463	0.100	-1.0	25.0
Bromodichloromethane	0.672	0.657	0.200	2.0	25.0
1,2-Dichloropropane	0.529	0.544		-3.0	
cis-1,3-Dichloropropene	0.797	0.796	0.200	0.0	25.0
Trichloroethene	0.442	0.452	0.300	-2.0	25.0
Dibromochloromethane	0.405	0.422	0.100	-4.0	25.0
1,1,2-Trichloroethane	0.377	0.371	0.100	2.0	25.0
Benzene	1.606	1.663	0.500	-4.0	25.0
trans-1,3-dichloropropene	0.720	0.737	0.100	-2.0	25.0
Bromoform	0.125	0.125	0.100	0.0	25.0
4-Methyl-2-Pentanone	0.586	0.522		11.0	
2-Hexanone	0.555	0.527		5.0	
Tetrachloroethene	0.339	0.362	0.200	-7.0	25.0
1,1,2,2-Tetrachloroethane	0.557	0.526	0.500	6.0	25.0
Toluene	1.682	1.643	0.400	2.0	25.0
Chlorobenzene	1.113	1.145	0.500	-3.0	25.0
Ethylbenzene	0.605	0.619	0.100	-2.0	25.0
Styrene	1.243	1.261	0.300	-1.0	25.0
Xylene (total)	0.724	0.722	0.300	0.0	25.0
Toluene-d8	1.394	1.360		2.0	
4-Bromofluorobenzene	0.728	0.716	0.200	2.0	25.0
1,2-Dichloroethane-d4	3.238	3.239		0.0	

All other compounds must meet a minimum RRF of 0.010.

ZZ1061 #5-822 12-FEB-92 14:16 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 56693000

Text:VTSD050_ 00050



Interim Report Sample Analysis 12-FEB-92 15:32:02

Datafile: ZZ1061 12-FEB-92 14:16
Database: VOA91S
Library: VOA91

Instrument: VG#2
Account:
Text: VTSD050_ 00050

QRE 2/12/92 KO

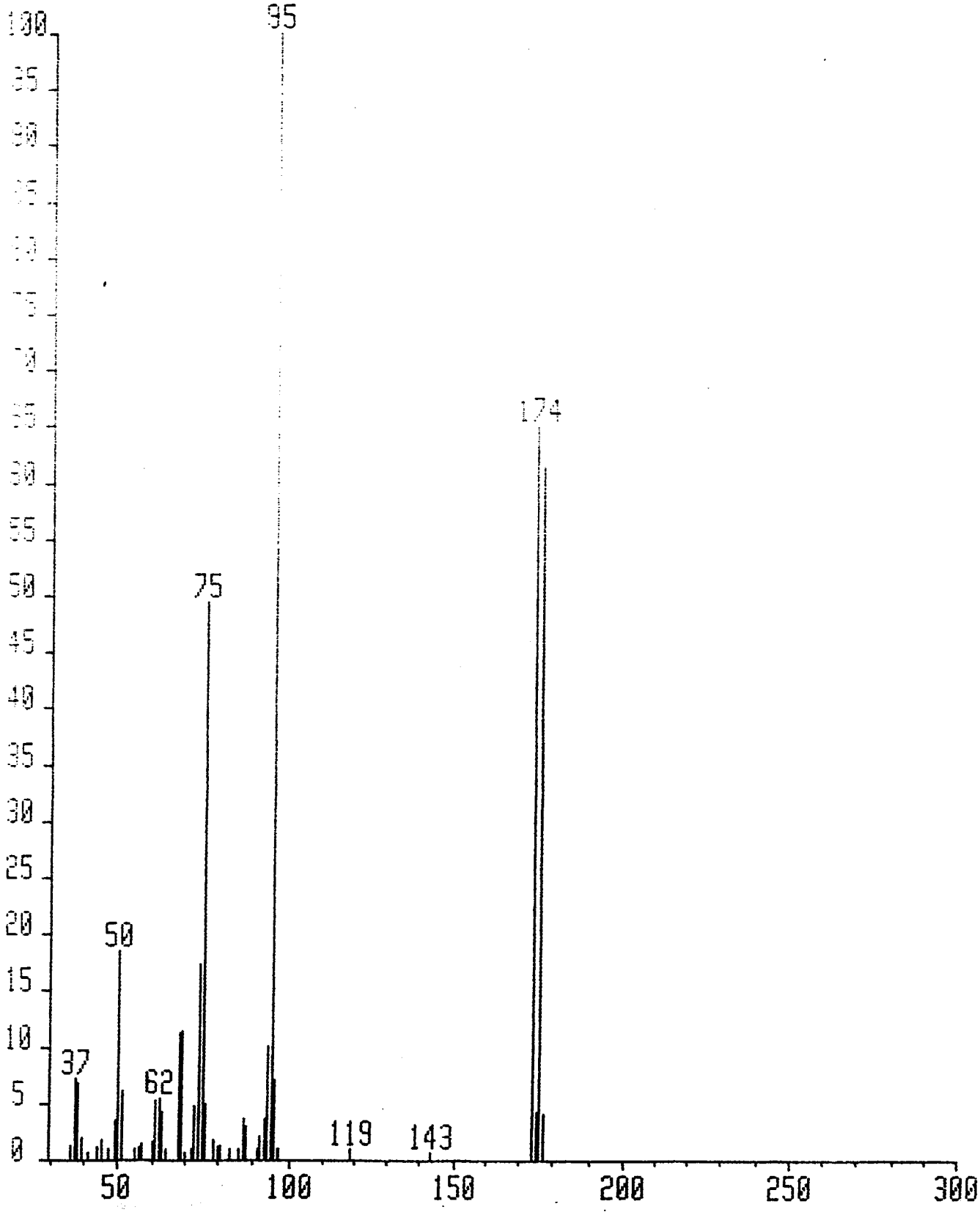
No.	Rank	Spectrum Match	Spectrum Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	100	92	99	1	7506000	bb	211	210	128	Bromochloromethane
2	90	69	99	0	24310000	bb	268	268	65	1,2-Dichloroethane-d4
3	66	50	74	0	6136000	bb	25	25	50	Chloromethane
4	92	76	99	1	3871000	bb	54	53	94	Bromomethane
5	80	51	99	0	1925000	bb*	73	73	62	Vinyl Chloride
6	76	61	82	0	4602000	bb	97	97	64	Chloroethane
7	97	86	95	0	27646000	bb	144	144	84	Methylene Chloride
8	98	84	99	0	15481100	bv*	162	162	43	Acetone
9	100	91	99	-1	57533000	bb	175	176	76	Carbon Disulfide
10	99	86	99	0	16899000	bb	202	202	96	1,1-Dichloroethene
11	92	73	99	0	37690000	bb	229	229	63	1,1-Dichloroethane
12	98	84	99	0	39866000	bb	243	243	96	1,2-Dichloroethene (to
13	98	86	99	-1	38578000	bv	255	256	83	Chloroform
14	84	62	96	0	27622000	bb	271	271	62	1,2-Dichloroethane
15	67	40	99	8	477250	bv	279	271	43	2-Butanone
	64	21	99	0	18635000	vb	271			
	63	36	99	10	477250	b?	281			
16	80	56	98	-2	48747000	bb*	428	430	114	1,4-Difluorobenzene
17	98	84	99	0	30452000	bb	298	298	97	1,1,1-Trichloroethane
18	98	88	98	1	22591000	vb	307	306	117	Carbon Tetrachloride
19	----------		No	Trace	Found	----------		288	1	
20	95	79	99	0	32031000	bb	316	316	83	Bromodichloromethane
21	96	82	98	0	26516000	bb	346	346	63	1,2-Dichloropropane
22	93	76	97	0	38782000	bb	351	351	75	cis-1,3-Dichloropropen
23	95	79	99	0	22044000	bv	362	362	130	Trichloroethene
24	67	26	99	0	20556000	bb	376	376	129	Dibromochloromethane
25	73	38	98	0	18106000	vb	378	378	97	1,1,2-Trichloroethane
26	92	77	95	0	81044000	bb	373	373	78	Benzene
27	70	34	97	0	35928220	bv	378	378	75	trans-1,3-dichloroprop
28	----------		No	Trace	Found	----------		372	1	
29	97	83	99	0	6082000	bb	433	433	173	Bromoform
30	85	61	98	0	42992000	bb	536	536	117	Chlorobenzene-d5
31	85	61	98	0	30791000	bv	673	673	95	4-Bromofluorobenzene
32	84	60	99	1	58469000	bb	508	507	98	Toluene-d8
33	100	90	99	0	22421130	vb	445	445	43	4-Methyl-2-Pentanone
34	100	90	99	0	22657060	bv	477	477	43	2-Hexanone
35	83	57	98	0	15584000	bb	483	483	164	Tetrachloroethene
36	66	24	99	0	22632000	bb	482	482	83	1,1,2,2-Tetrachloroeth
37	94	76	99	0	70652000	bv	512	512	91	Toluene
38	86	63	99	1	49213000	bv	541	540	112	Chlorobenzene
39	94	76	99	0	26621000	bb	597	597	106	Ethylbenzene
40	92	77	99	2	54225000	bb	718	716	104	Styrene
41	90	75	98	2	31053500	bb	728	726	106	m-Xylene
42	96	82	99	-1	32871120	b?	758	759	106	o-/p-Xylene
43	----------		No	Trace	Found	----------		0	-	

KA 2/12/92

63166880

000067

BFBTUNS#1 x1 Bgd=420 12-FEB-92 10:06+0:22:19 EI+
I=185mv TIC=5457000 AV SU Acnt:
Text:02/12/92 _TIME_0925_ BFB1011_AVE_(429-431)



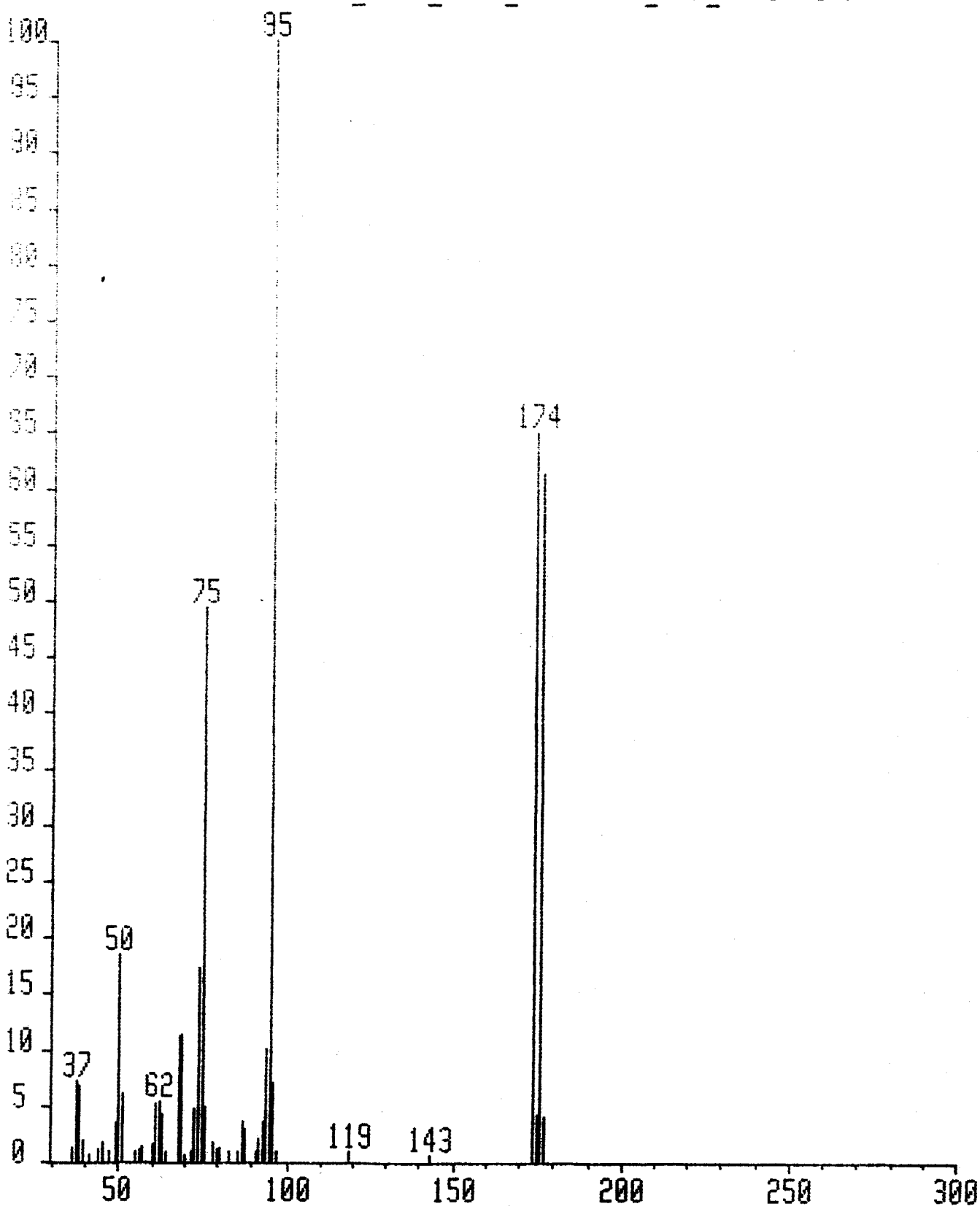
BFBTUNS#1 x1 Bgd=420 12-FEB-92 10:06+0:22:19 VG#2 EI+ 1
BpM=95 I=185mv Hm=297 TIC=5457000 AV SU Acnt: Sys:BFB91
Text:02/12/92 _TIME_0925 _ BFB1011_AVE_(429-431)-SPT=0 Cal:

Mass	Abs. Ht	% Mass
36	14000	1.2
37	87000	7.1
38	81000	6.7
39	22000	1.8
41	7000	0.6
44	12000	1.0
45	20000	1.6
47	11000	0.9
49	40000	3.3
50	224000	18.4
51	73000	6.0
55	11000	0.9
56	13000	1.1
57	17000	1.4
60	19000	1.6
61	63000	5.2
62	64000	5.3
63	51000	4.2
64	11000	0.9
66	4000	0.3
67	3000	0.2
68	136000	11.2
69	138000	11.3
70	7000	0.6
72	10000	0.8
73	57000	4.7
74	209000	17.2
75	600000	49.3
76	59000	4.8
77	4000	0.3
79	21000	1.7
80	12000	1.0
81	15000	1.2
83	11000	0.9
86	11000	0.9
87	42000	3.5
88	34000	2.8
89	3000	0.2
91	10000	0.8
92	25000	2.1
93	42000	3.5
94	120000	9.9
95	1217000	100.0
96	84000	6.9
97	10000	0.8
119	10000	0.8
133	6000	0.5
141	6000	0.5
143	7000	0.6
155	3000	0.2
157	2000	0.2
159	2000	0.2
165	2000	0.2
174	791000	65.0
175	50000	4.1
176	748000	61.5

BFBTUNS#1 x1 Bgd=420 12-FEB-92 10:06+0:22:19 VG#2 EI+ :
BpM=95 I=185mv Hm=297 TIC=5457000 AV SU Acnt: Sys:BFB91
Text:02/12/92 _TIME_0925 _ BFB1011_AVE_(429-431)-SPT=0 Cal:

Mass	Abs. Ht	% Mass
177	48000	3.9
181	3000	0.2
183	2000	0.2
191	2000	0.2
207	4000	0.3
208	2000	0.2
213	2000	0.2
218	2000	0.2
237	2000	0.2
251	2000	0.2
254	3000	0.2
258	2000	0.2

BFBTUNS#1 x1 Bgd=420 12-FEB-92 10:06+0:22:19 EI+
I=185mv TIC=5457000 AV SU Acnt:
Text:02/12/92 _TIME_0925_ BFB1011_AVE_(429-431)



BFBTUNS#1 x1 Bgd=420 12-FEB-92 10:06+0:22:19 VG#2 EI+ 1
BpM=95 I=185mv Hm=297 TIC=5457000 AV SU Acnt: Sys:BFB91
Text:02/12/92 _TIME_0925 _ BFB1011_AVE_(429-431)-SPT=0 Cal:

Mass	Abs. Ht	% Mass
36	14000	1.2
37	87000	7.1
38	81000	6.7
39	22000	1.8
41	7000	0.6
44	12000	1.0
45	20000	1.6
47	11000	0.9
49	40000	3.3
50	224000	18.4
51	73000	6.0
53	11000	0.9
54	13000	1.1
57	17000	1.4
60	19000	1.6
61	63000	5.2
62	64000	5.3
63	51000	4.2
64	11000	0.9
66	4000	0.3
67	3000	0.2
68	136000	11.2
69	138000	11.3
70	7000	0.6
72	10000	0.8
73	57000	4.7
74	209000	17.2
75	600000	49.3
76	59000	4.8
77	4000	0.3
79	21000	1.7
80	12000	1.0
81	15000	1.2
83	11000	0.9
86	11000	0.9
87	42000	3.5
88	34000	2.8
89	3000	0.2
91	10000	0.8
92	25000	2.1
93	42000	3.5
94	120000	9.9
95	1217000	100.0
96	84000	6.9
97	10000	0.8
119	10000	0.8
133	6000	0.5
141	6000	0.5
143	7000	0.6
155	3000	0.2
157	2000	0.2
159	2000	0.2
165	2000	0.2
174	791000	65.0
175	50000	4.1
176	748000	61.5

BFBTUNS#1 x1 Bgd=420 12-FEB-92 10:06+0:22:19 VG#2 EI+ 1
BpM=95 I=185mv Hm=297 TIC=5457000 AV SU Acnt: Sys:BFB91
Text:02/12/92 _TIME_0925 _ BFB1011_AVE_(429-431)-SPT=0 Cal:

Mass	Abs. Ht	% Mass
177	48000	3.9
181	3000	0.2
183	2000	0.2
191	2000	0.2
207	4000	0.3
208	2000	0.2
213	2000	0.2
218	2000	0.2
237	2000	0.2
251	2000	0.2
254	3000	0.2
258	3000	0.2

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK5

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 00000

Sample wt/vol: 5.0(g/mL) ML Lab File ID: ZZ1071

Level: (low/med) LOW Date Received: 02/06/92

% Moisture: not dec. 0 Date Analyzed: 02/12/92

GC Column: 1%SP1000 ID: 2 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-35-3	1,1-Dichloroethane	10	U
156-60-5	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
591-78-6	4-Methyl-2-Pentanone	10	U
108-10-1	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK5

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 00000

Sample wt/vol: 5.0(g/mL) ML Lab File ID: ZZ1071

Level: (low/med) LOW Date Received: 02/06/92

% Moisture: not dec. 0 Date Analyzed: 02/12/92

GC Column: 1%SP1000 ID: 2(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

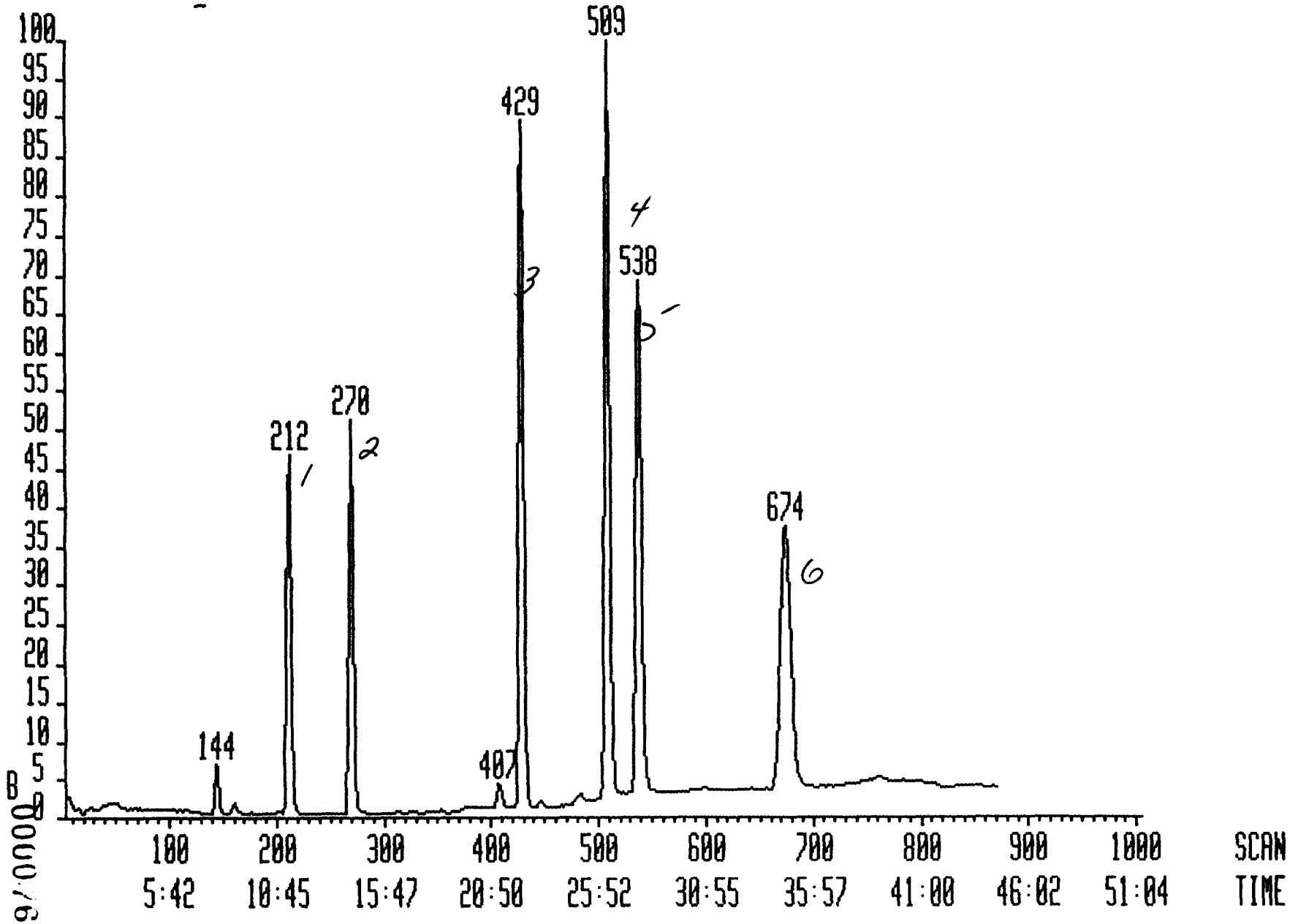
CONCENTRATION UNITS:
(ug/L or ug/Kg)ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

ZZ1071 #5-870 12-FEB-92 15:27 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 33204000

Text:VBLK5_ 00000



9/00076

Interim Report Sample Analysis 13-FEB-92 03:49:24

Datafile: ZZ1071 12-FEB-92 15:27
Database: VOA91S
Library: VOA91

Instrument: VG#2
Account:
Text: VBLK5_ 00000

QAL
2/13/92
KD

No.	Rank	Spectrum Match	Fit	Scan Diff	Peak Area	Flgs	Scan Found	Pred	Quan m/z	Compound Name
1	98	88	95	0	8679000	bb	211	211	128	Bromochloromethane
2	99	88	99	1	24671000	bb	269	268	65	1,2-Dichloroethane-d4
3	44	10	74	1	147000	bb	26	25	50	Chloromethane
4	21	0	40	-1	9000	bb	53	54	94	Bromomethane
	20	0	40	-5	2000	bb	49			
	19	0	40	-8	2000	bb	46			
5	---------- No Trace Found ----------							73	62	Vinyl Chloride
6	---------- No Trace Found ----------							97	64	Chloroethane
7	96	84	95	0	2065000	bb	144	144	84	Methylene Chloride
8	89	70	99	-1	1502000	bv	161	162	43	Acetone
9	57	34	76	2	39000	bb	177	175	76	Carbon Disulfide
10	41	14	63	1	25000	bb	203	202	96	1,1-Dichloroethene
11	39	3	90	17	4000	bb	246	229	63	1,1-Dichloroethane
	31	5	68	15	10000	bb	244			
	28	0	68	-17	81000	bb	212			
12	41	9	71	3	5000	bb	246	243	96	1,2-Dichloroethene (to
13	45	16	71	2	63000	bb	257	255	83	Chloroform
14	---------- No Trace Found ----------							271	62	1,2-Dichloroethane
15	59	15	99	3	874000	bb	274	271	43	2-Butanone
	44	6	84	-7	10000	bb	264			
16	81	56	98	1	47412000	bb	429	428	114	1,4-Difluorobenzene
17	36	12	57	1	57000	bb	300	299	97	1,1,1-Trichloroethane
18	43	14	67	0	46000	bb	308	308	117	Carbon Tetrachloride
19	---------- No Trace Found ----------							288	1	
20	24	3	43	1	21000	bb	318	317	83	Bromodichloromethane
21	28	6	47	1	34000	bb	348	347	63	1,2-Dichloropropane
22	44	10	73	1	50000	bb	353	352	75	cis-1,3-Dichloropropen
	22	0	49	-12	2000	bb	340			
	21	0	43	-8	2000	bb	344			
23	66	35	90	1	72000	bb	364	363	130	Trichloroethene
24	43	3	78	0	37000	bv	377	377	129	Dibromochloromethane
	43	1	87	7	6000	vb	384			
	31	0	67	10	1000	bb	387			
25	48	10	81	1	60000	bb	380	379	97	1,1,2-Trichloroethane
	29	1	57	6	2000	bb	385			
	28	1	68	19	2000	bb	398			
26	43	14	67	1	205000	bb	375	374	78	Benzene
	37	2	82	13	2000	bb	387			
	35	3	79	15	1000	bb	389			
27	45	6	80	1	46000	bv	380	379	75	trans-1,3-dichloroprop
	45	3	84	3	46000	b?	382			
	41	1	83	7	7000	?b	386			
28	---------- No Trace Found ----------							372	1	
29	30	2	64	-11	1000	b?	423	434	173	Bromoform
	26	2	61	-18	2000	bb	416			
	23	0	49	10	2000	bb	444			
30	89	71	98	1	38642000	bv*	538	537	117	Chlorobenzene-d5
31	83	60	98	-1	16160710	?v	675	676	95	4-Bromofluorobenzene
	82	61	98	-3	14093290	b?	673			
32	80	60	94	-2	54261000	bb	508	510	98	Toluene-d8

000077

28139000 KD 2/13/92 54261000

33	87	64	98	0	681162	vb	447	447	43	4-Methyl-2-Pentanone
34	81	55	96	0	553949	v?*	479	479	43	2-Hexanone 221071
	61	37	88	7	69923	??	486			
	60	38	88	9	37692	??	488			
35	54	13	89	-1	45000	bb	484	485	164	Tetrachloroethene
	30	1	64	-11	1000	bb	474			
36	58	15	94	0	351000	bb	484	484	83	1,1,2,2-Tetrachloroeth
37	53	12	87	0	541000	bb	514	514	91	Toluene
38	36	2	67	-2	262000	bb	541	543	112	Chlorobenzene
39	48	13	78	-1	112000	bb	598	599	106	Ethylbenzene
	27	4	49	4	6000	bb	603			
40	26	4	46	-1	188000	bb	720	721	104	Styrene
	25	4	44	1	188000	bb	722			
	10	1	23	19	2000	bb	740			
41	36	7	62	-2	134000	bb	729	731	106	m-Xylene
	25	3	49	7	4000	bb	738			
	21	3	48	17	3000	bb	748			
42	50	11	82	0	362000	bv	761	761	106	o-/p-Xylene
	48	11	83	-3	124000	b?	758			
	24	3	50	12	362000	b?	773			
43	---------- No Trace Found ----------							0	-	

ATT Results ZZ1071 TIC 20:51:00

Internal Standard	Scan	Area	Conc
Bromochloromethane	211	3906	50.
1,4-Difluorobenzene	429	6638	50
Chlorobenzene-d5	538	7342	50

TIC Scan	BKG Scan	IS Scan	Area	Conc
~~144~~		211	516	7

methylene Chloride Small

KD QRE 2/13/92