VOA Chemist

Pacific Analytical 08/26/92

P A Reference: 262

Hadley Industries

Samples:

INFLUENT, BETWEEN, EFFLUENT

Comments:

The above samples were analyzed by the CLP Volatiles method. Recoveries of the system monitoring compounds were all within the specified limits for this type of analysis. The internal standard areas and retention times were good for all analyses.

The samples contained trace levels of methylene chloride and acetone, most likely from laboratory conytamination. The INFLUENT sample contained trichloroethene and tetrachloroethene and the BETWEEN sample contained trichloroethene and a trace of 1,2-dichloroethene.

No tentatively identified compounds were present in the samples or blank.

Mark Gregg
VOA Chemist

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: PACIFIC ANALYTICAL Contract: D10098

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

	EPA SAMPLE NO.	SMC1 (TOL)#	SMC2 (BFB)#	SMC3 (DCE)#	OTHER	TOT OUT
01	VBLK84	93	100	94		0
02	EFFLUENT	95	101	93		0
03	BETWEEN	98	102	88		0
04	INFLUENT	97	100	90		0
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

	QC LIMITS
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

page 1 of 1

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK84

Lab Name: PACIFIC ANALYTICAL Contract: D10098

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

Lab File ID: II1041 Lab Sample ID: 00000

Date Analyzed: 07/24/92 Time Analyzed: 1553

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	EFFLUENT	~~22603~~ 26203	II1091	2045
02	BETWEEN	~~22602~~ 26202	II1101	2137
03	INFLUENT	~~22601~~ 26201	II1121	2320
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

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: FF3071 BFB Injection Date: 07/16/92

Instrument ID: VG#2 BFB Injection Time: 1616

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	29.2
75	30.0 - 66.0% of mass 95	50.0
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	86.9
175	4.0 - 9.0% of mass 174	5.0 (5.8)1
176	93.0 - 101.0% of mass 174	85.4 (98.2)1
177	5.0 - 9.0% of mass 176	5.0 (5.9)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	FF3091	07/16/92	1844
02	VSTD100	00100	FF3101	07/16/92	1935
03	VSTD020	00020	FF3111	07/16/92	2027
04	VSTD010	00010	FF3121	07/16/92	2118
05	VSTD050	00050	FF3131	07/16/92	2210
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: PACIFIC ANALYTICAL Contract: D10098

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

Lab File ID: II1011 BFB Injection Date: 07/24/92

Instrument ID: VG#2 BFB Injection Time: 1155

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	9.1
75	30.0 - 66.0% of mass 95	46.0
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	77.4
175	4.0 - 9.0% of mass 174	4.2 (5.4)1
176	93.0 - 101.0% of mass 174	73.9 (95.5)1
177	5.0 - 9.0% of mass 176	4.2 (5.7)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	VSTD050	00050	II1021	07/24/92	1241
02	VBLK84	00000	II1041	07/24/92	1553
03	EFFLUENT	~~22603~~ 26203	II1091	07/24/92	2045
04	BETWEEN	~~22602~~ 26202	II1101	07/24/92	2137
05	INFLUENT	~~22601~~ 26201	II1121	07/24/92	2320
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: PACIFIC ANALYTICAL Contract: D10098

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

Lab File ID (Standard): II1021 Date Analyzed: 07/24/92

Instrument ID: VG#2 Time Analyzed: 1241

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	7600000	12.20	37993001	22.98	30232000	28.83
	UPPER LIMIT	15200000	12.70	75986002	23.48	60464001	29.33
	LOWER LIMIT	3800000	11.70	18996500	22.48	15116000	28.33
	EPA SAMPLE NO.						
01	VBLK84	7917000	12.15	41227001	22.98	34660501	28.83
02	EFFLUENT	8431000	12.15	41015001	22.98	35976005	28.88
03	BETWEEN	8832000	12.15	41792001	23.03	35951961	28.88
04	INFLUENT	8432000	12.13	42643001	23.02	36514005	28.87
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

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.

000005

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

INFLUENT

Lab Name: PACIFIC ANALYTICAL Contract: D10098

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

Matrix: (soil/water) Lab Sample ID: ~~22601~~ 26201

Sample wt/vol: 5.0(g/mL) ML Lab File ID: II1121

Level: (low/med) LOW Date Received: 07/16/92

% Moisture: not dec. Date Analyzed: 07/24/92

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	7	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	34	
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: D10098

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

Matrix: (soil/water) Lab Sample ID: ~~22601~~ 26201

Sample wt/vol: 5.0(g/mL) ML Lab File ID: II1121

Level: (low/med) LOW Date Received: 07/16/92

% Moisture: not dec. Date Analyzed: 07/24/92

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

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

Number TICs found: 0

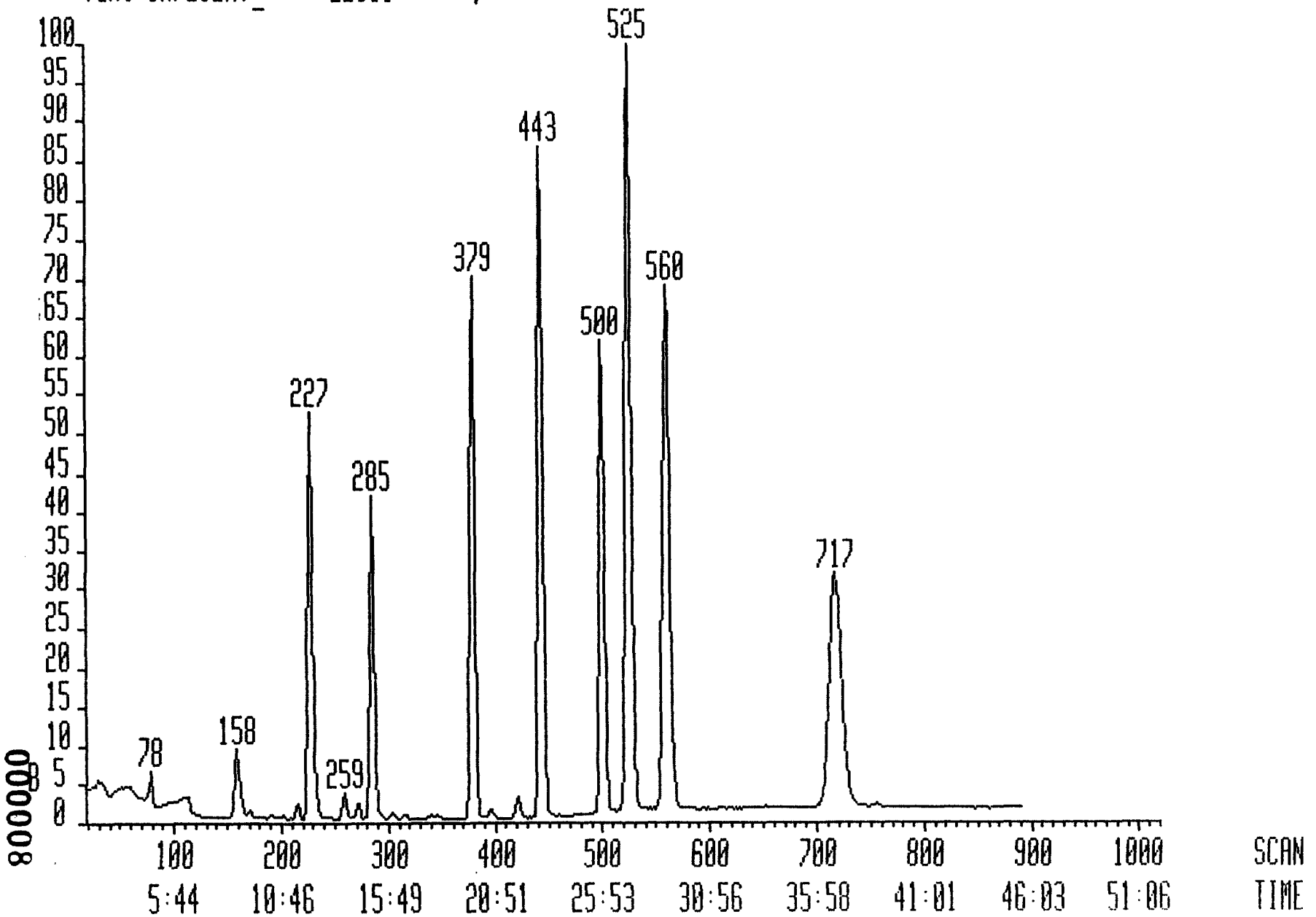
CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

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.				

III121 #20-890 24-JUL-92 23:20 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 23169000

Text:INFLUENT_ ~~22601~~ 26201



8000000

Interim Report Sample Analysis 24-AUG-92 13:44:50

Datafile: II1121 24-JUL-92 23:20
Database: VOA91H
Library: VOA91

QRE
M.H.
8/24/92

Instrument: VG#2
Account:
Text: INFLUENT_ ~~22601~~ 26201

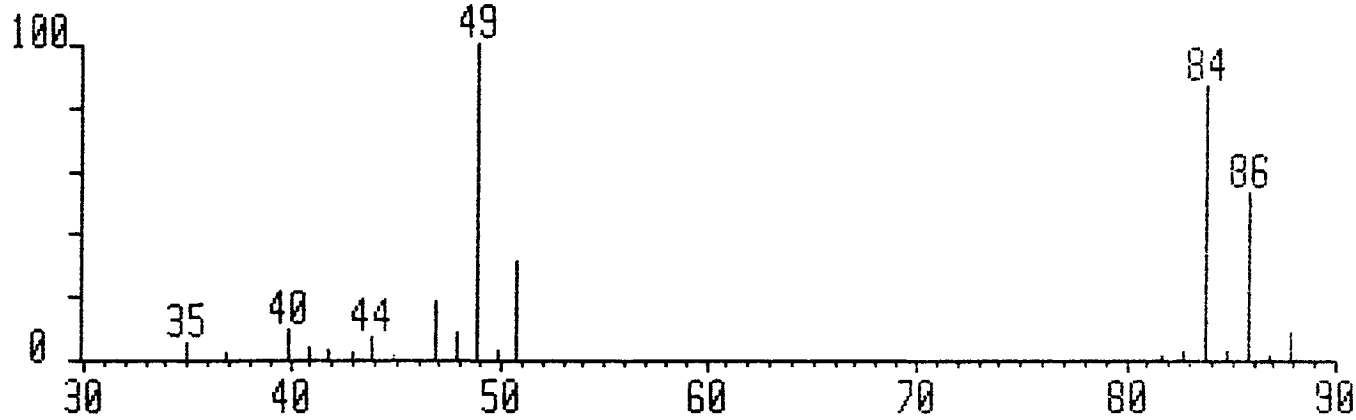
No.	Rank	Spectrum Match	Spectrum Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	100	92	99	1	8432000	bb	227	226	128	Bromochloromethane
2	96	86	98	2	12610000	bb	285	283	65	1,2-Dichloroethane-d4
3	51	0	96	1	42000	bb*	28	27	50	Chloromethane
	36	0	89	19	3000	bb	46			
	31	0	74	17	7000	bb	44			
4	45	2	84	2	20222	v?	61	59	94	Bromomethane
	38	2	76	7	2241	??	66			
	37	2	76	9	2161	??	68			
5	40	0	77	-2	4000	bb	77	79	62	Vinyl Chloride
	32	0	77	17	3000	bb	96			
6	---------- No Trace Found ----------							106	64	Chloroethane
7	96	87	98	2	2924000	bb	159	157	84	Methylene Chloride
8	80	55	99	-2	602067	bv*	170	172	43	Acetone
	55	16	99	8	29000	??	180			
9	76	56	94	4	352000	bb	191	187	76	Carbon Disulfide
10	90	73	99	2	428000	bb	215	213	96	1,1-Dichloroethene
11	63	20	99	1	79000	bb	244	243	63	1,1-Dichloroethane
	39	0	91	-15	56000	bb	228			
12	91	79	99	3	933000	bb	259	256	96	1,2-Dichloroethene (to
13	86	66	99	2	681000	bb	272	270	83	Chloroform
14	28	18	35	1	51000	bb	287	286	62	1,2-Dichloroethane
15	51	0	98	2	73634	vv	284	282	43	2-Butanone
	49	9	99	-12	114293	vv	270			
	46	7	84	-4	8610	??	278			
16	84	62	99	2	42643000	bv	443	441	114	1,4-Difluorobenzene
17	86	65	98	1	263000	bb	315	314	97	1,1,1-Trichloroethane
18	41	8	70	2	18000	bb	325	323	117	Carbon Tetrachloride
	40	8	67	0	18000	bb	323			
	37	5	72	-7	27000	bb	316			
19	---------- No Trace Found ----------							0	1	
20	---------- No Trace Found ----------							334	83	Bromodichloromethane
21	19	1	45	17	22000	bb	379	362	63	1,2-Dichloropropane
	14	2	31	-15	4000	bb	347			
22	24	6	54	-19	3000	bb	348	367	75	cis-1,3-Dichloropropen
23	94	81	99	2	13480000	bv	379	377	130	Trichloroethene
24	22	0	42	2	6000	bb	396	394	129	Dibromochloromethane
	16	1	35	-15	28000	bb	379			
25	71	46	88	1	206000	vb	397	396	97	1,1,2-Trichloroethane
26	35	9	58	2	66000	bb	389	387	78	Benzene
27	---------- No Trace Found ----------							394	75	trans-1,3-dichloroprop
28	---------- No Trace Found ----------							0	1	
29	---------- No Trace Found ----------							453	173	Bromoform
30	91	75	99	2	36514000	bb	559	557	117	Chlorobenzene-d5
31	84	68	99	5	20410860	bv	717	712	95	4-Bromofluorobenzene
32	84	66	95	2	48297790	bv	525	523	98	Toluene-d8
33	51	19	79	2	15632	??	462	460	43	4-Methyl-2-Pentanone
	50	23	84	10	0	??	470			
	49	19	80	6	3632	??	466			
34	63	29	88	0	4600	??	493	493	43	2-Hexanone

000009

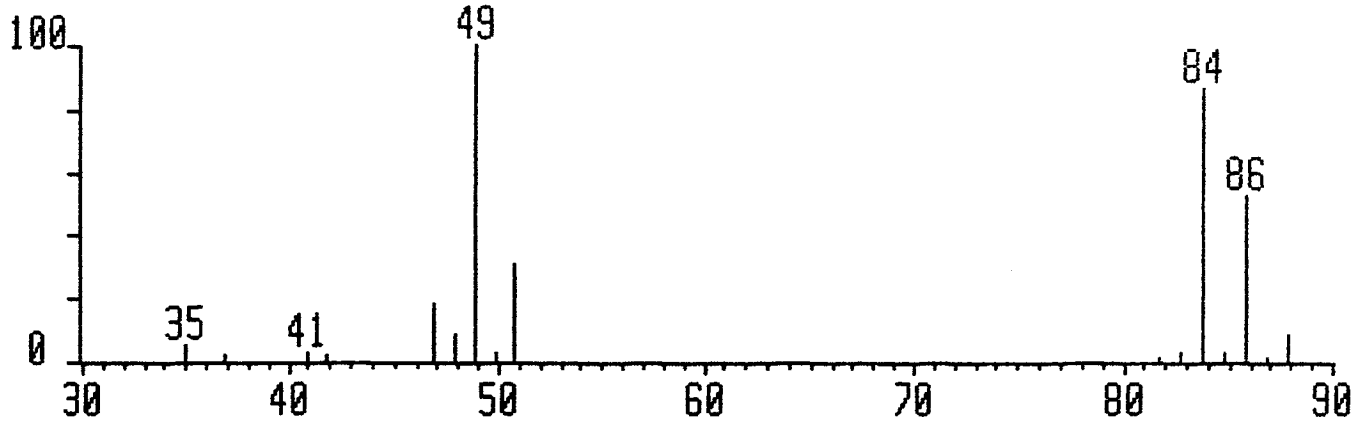
	53	24	82	-5	4429	??	488			
	52	24	84	-8	353	??	485			
35	96	85	99	2	9679000	bb	500	498	164	Tetrachloroethene
~~36~~	42	3	85	-9	4105	??	493	502	83	1,1,2,2-Tetrachloroeth
	41	0	79	-2	203246	vv	500			
	40	4	79	8	6607	??	510			
~~37~~	49	5	90	3	195000	bb	531	528	91	Toluene
~~38~~	20	0	37	-1	7000	b?	560	561	112	Chlorobenzene
~~39~~	---------- No Trace Found ----------							625	106	Ethylbenzene
~~40~~	24	1	46	-4	5000	bb	756	760	104	Styrene
	13	0	25	5	4000	bb	765			
~~41~~	11	0	25	-11	4000	bb	758	769	106	m-Xylene
~~42~~	---------- No Trace Found ----------							803	106	o-/p-Xylene
~~43~~	---------- No Trace Found ----------							0	-	

II 1121

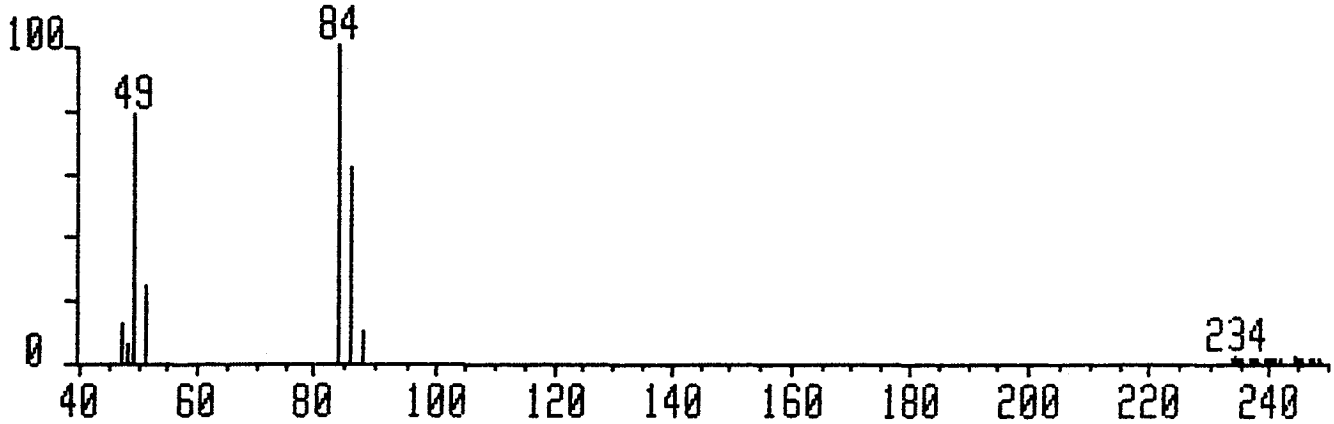
II1121#159 x1 Bgd=1 24-JUL-92 23:20+0:08:42 EI+
I=92mv TIC=2075000 Acnt:
Text:INFLUENT_~~22601~~ 26201 _MethyLene ChLoride



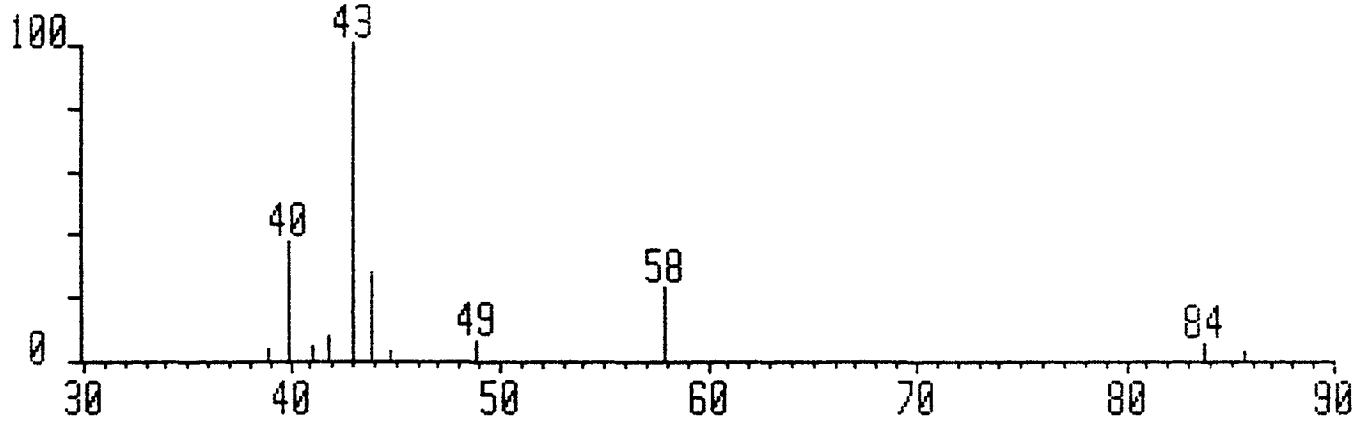
II1121S#159 x1 Bgd=153 24-JUL-92 23:20+0:08:42 EI+
I=92mv TIC=1960000 SU Acnt:
Text:INFLUENT_~~22601~~ 26201 _MethyLene ChLoride



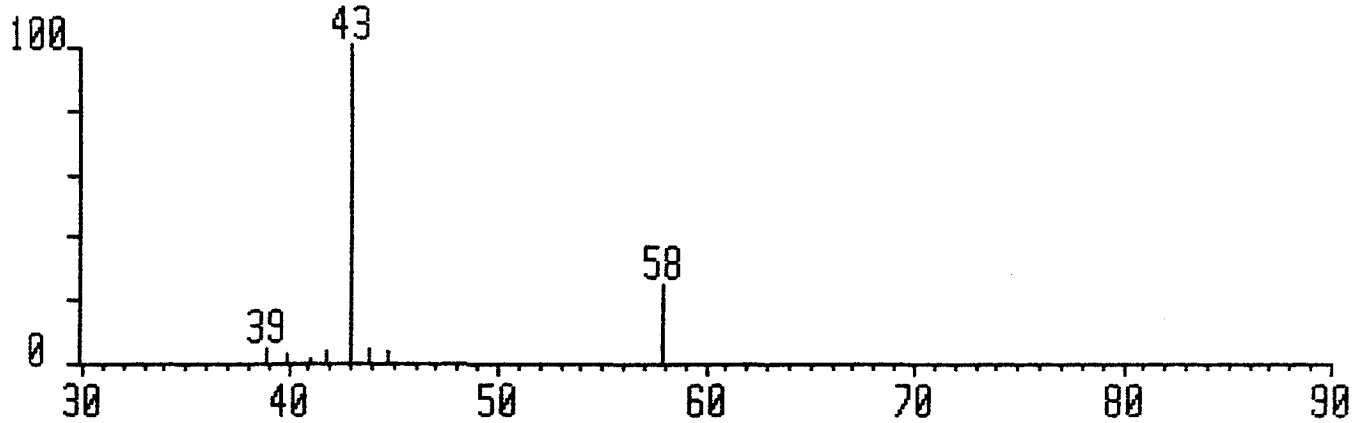
V8240#7 x1 Bgd=1 1-DEC-89 13:03+0:00:23 EI+
I=234mv TIC=10910000 Acnt:VG#2
Text:MethyLene ChLoride



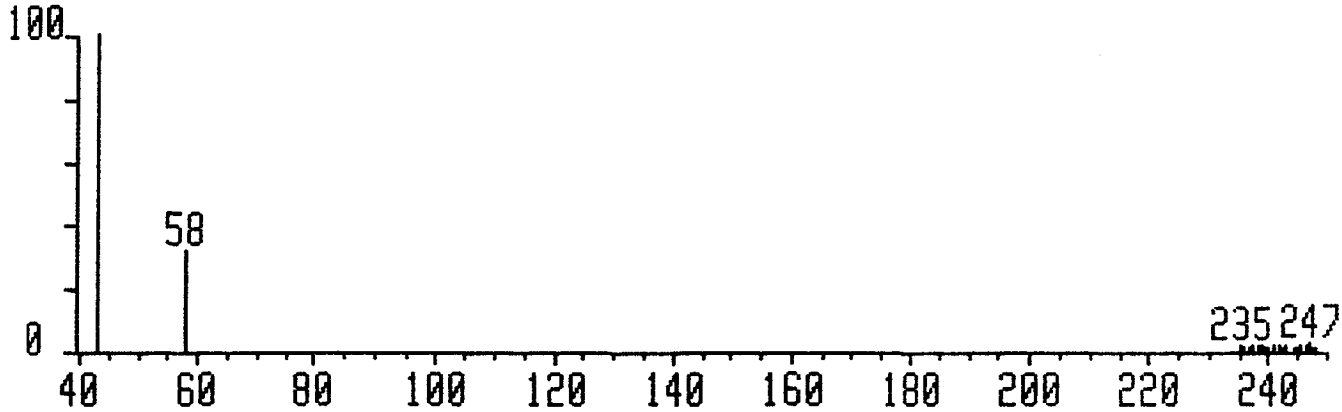
II1121#170 x1 Bgd=1 24-JUL-92 23:20+0:09:15 EI+
I=22mv TIC=313000 26201 Acnt:
Text:INFLUENT_~~22601~~_Acetone



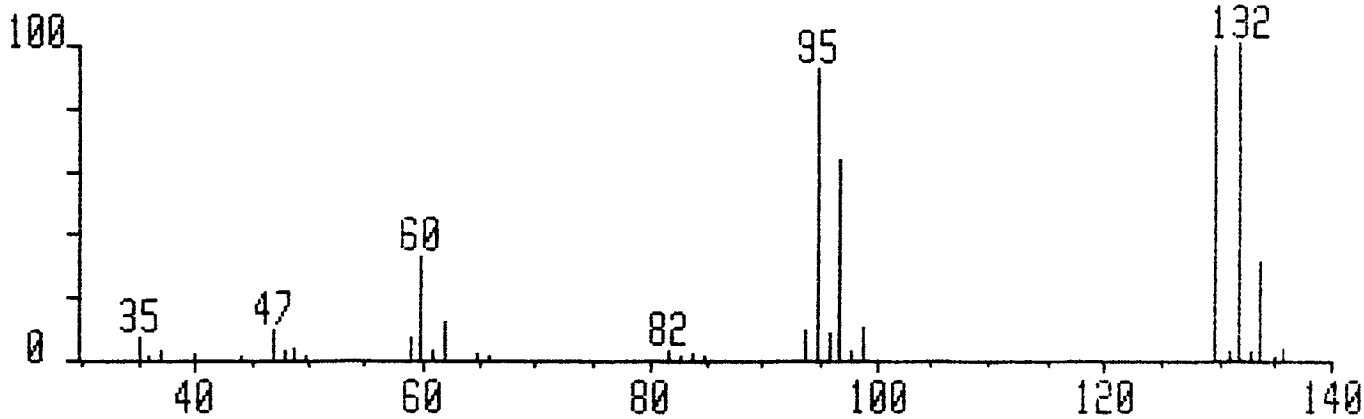
II1121S#170 x1 Bgd=165 24-JUL-92 23:20+0:09:15 EI+
I=20mv TIC=188000 26201 SU Acnt:
Text:INFLUENT_~~22601~~_Acetone



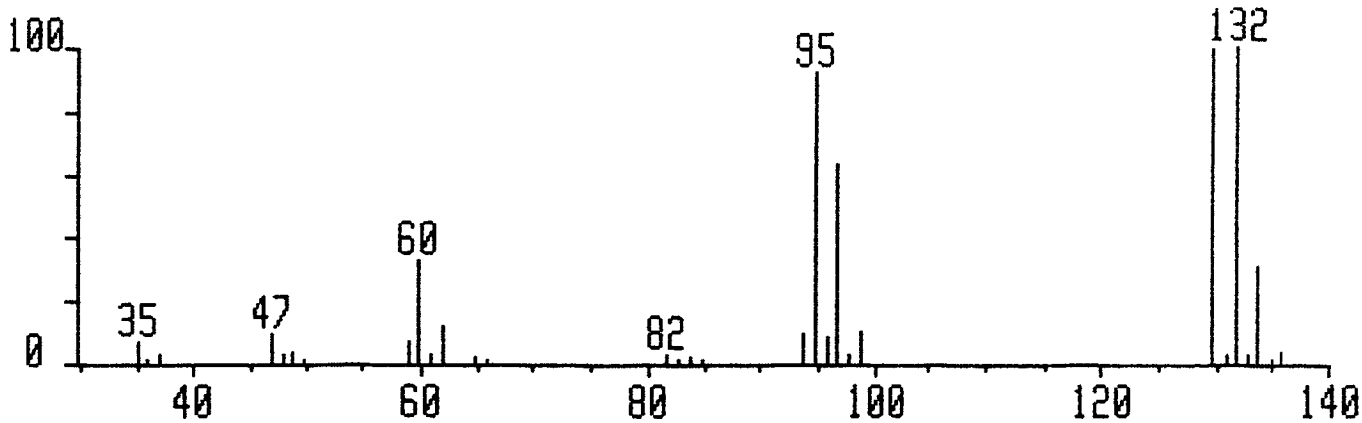
V8240#8 x1 Bgd=1 1-DEC-89 13:03+0:00:26 EI+
I=226mv TIC=11124000 Acnt:VG#2
Text:Acetone



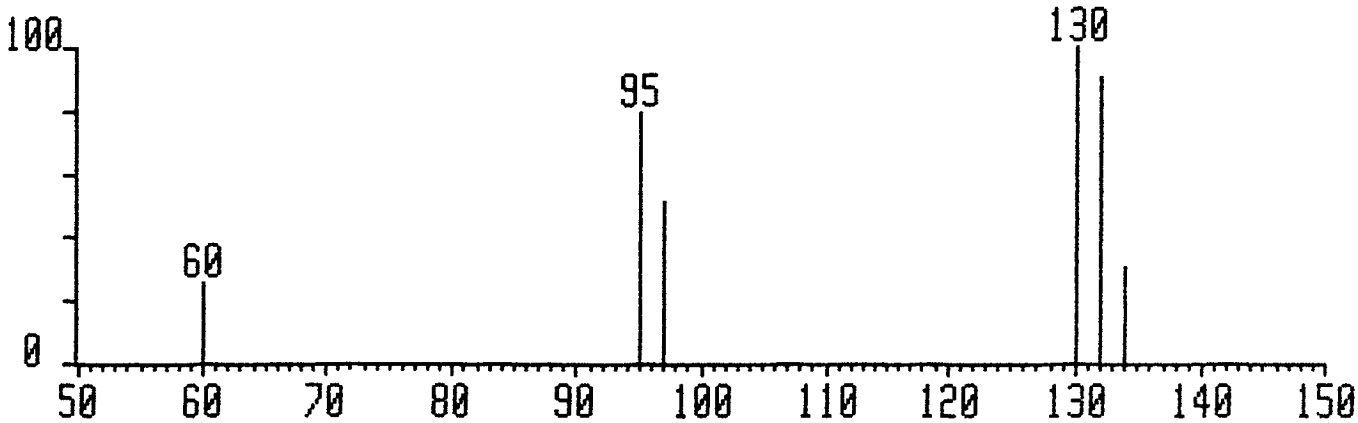
II1121#379 x1 Bgd=371 24-JUL-92 23:20+0:19:47 EI+
I=482mv TIC=16233000 Acnt:
Text:INFLUENT_~~22601~~ 26201 _TrichLoroethene



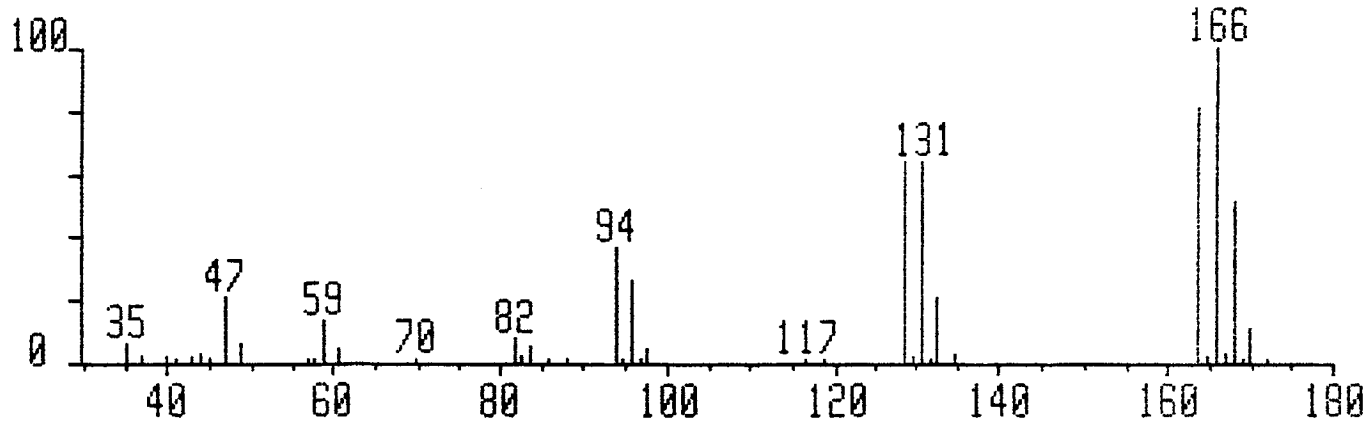
II1121S#379 x1 Bgd=372 24-JUL-92 23:20+0:19:47 EI+
I=482mv TIC=16157000 SU Acnt:
Text:INFLUENT_~~22601~~ 26201 _TrichLoroethene



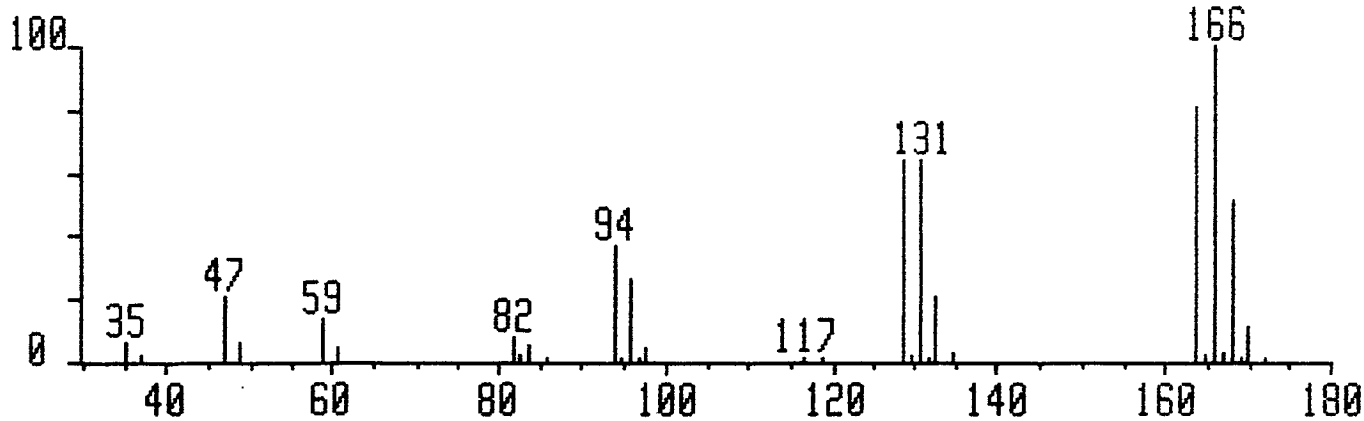
V8240#23 x1 Bgd=1 1-DEC-89 13:03+0:01:11 EI+
I=251mv TIC=11543000 Acnt:VG#2
Text:TrichLoroethene



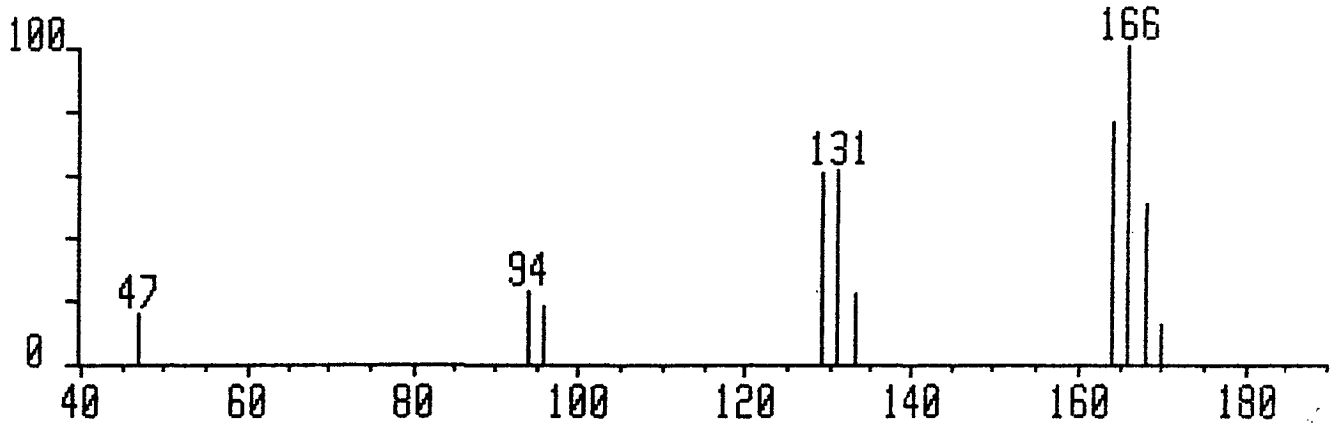
II1121#500 x1 Bgd=489 24-JUL-92 23:20+0:25:53 EI+
I=400mv TIC=14359000 26201 Acnt:
Text:INFLUENT_~~22601~~_TetrachLoroethene



II1121S#500 x1 Bgd=493 24-JUL-92 23:20+0:25:53 EI+
I=400mv TIC=14117000 26201 SU Acnt:
Text:INFLUENT_~~22601~~_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 II1121 TIC ~~22601~~ 26201

Internal Standard	Scan	Area	Conc
Bromochloromethane	227	3794	50
1,4-Difluorobenzene	443	5970	50
Chlorobenzene-d5	559	6938	50

TIC Scan	BKG Scan	IS Scan	Area	Conc
~~114~~		~~227~~	~~1023~~	~~13~~

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BETWEEN

Lab Name: PACIFIC ANALYTICAL Contract: D10098

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

Matrix: (soil/water) Lab Sample ID: ~~22602~~ 26202

Sample wt/vol: 5.0(g/mL) ML Lab File ID: II1101

Level: (low/med) LOW Date Received: 07/16/92

% Moisture: not dec. Date Analyzed: 07/24/92

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	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)	5	J
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	11	
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

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BETWEEN

Lab Name: PACIFIC ANALYTICAL Contract: D10098

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

Matrix: (soil/water) Lab Sample ID: ~~22602~~ 26202

Sample wt/vol: 5.0(g/mL) ML Lab File ID: II1101

Level: (low/med) LOW Date Received: 07/16/92

% Moisture: not dec. Date Analyzed: 07/24/92

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

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

Number TICs found: 0

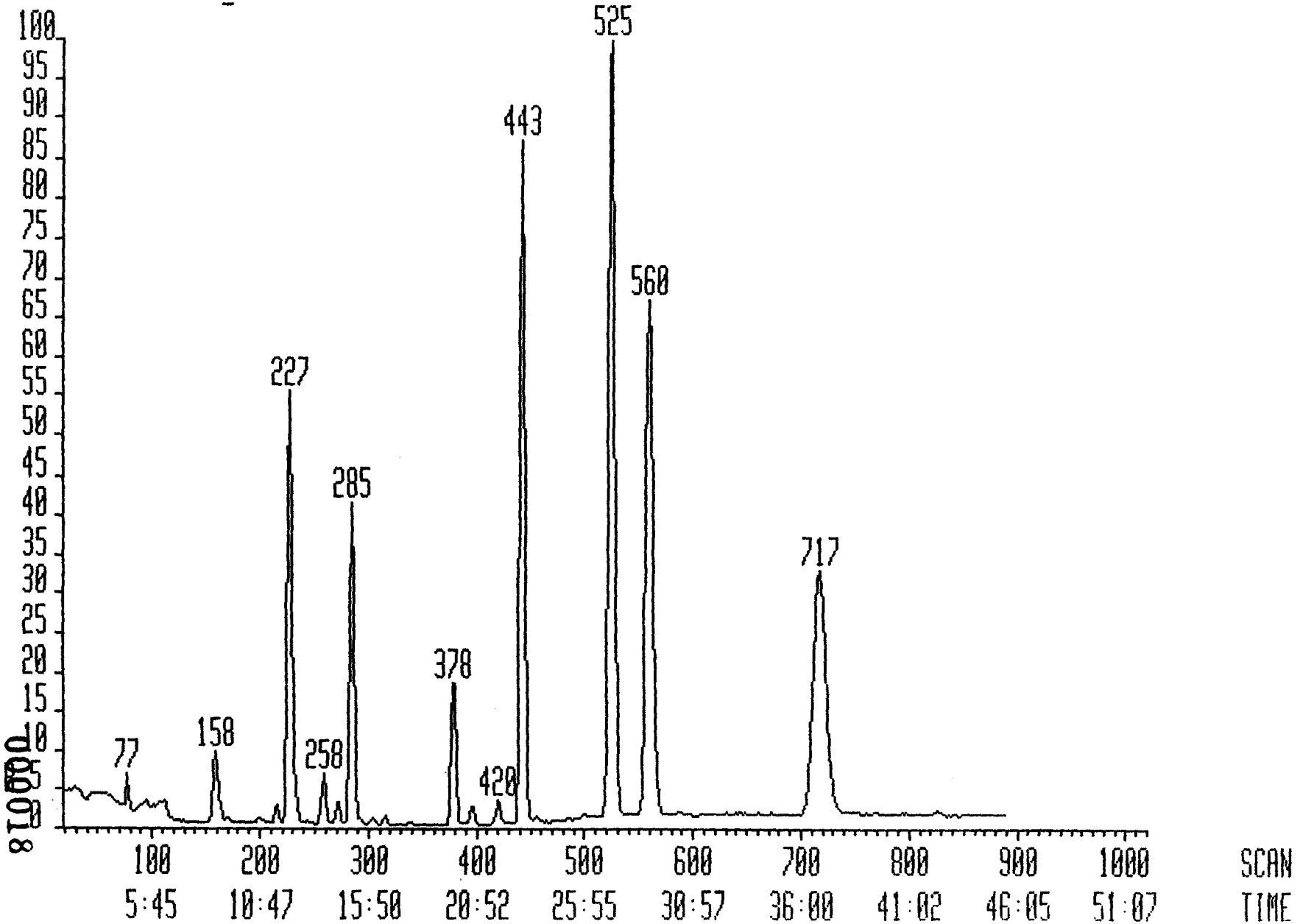
CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	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.					

II1101 #20-889 24-JUL-92 21:37 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 22356000

Text:BETWEEN_ ~~22602~~ 26202



Interim Report Sample Analysis 24-AUG-92 13:38:03

Datafile: II1101 24-JUL-92 21:37
Database: VOA91H
Library: VOA91

Instrument: VG#2
Account:
Text: BETWEEN_ ~~22602~~ 26202

QRE
M.H.
8/24/92

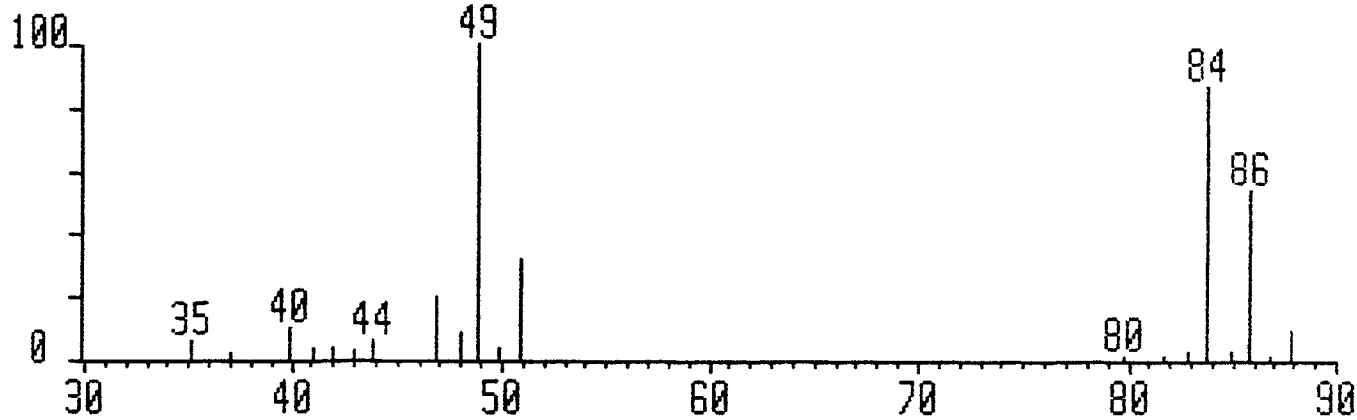
No.	Rank	Spectrum Match	Spectrum Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	100	92	99	1	8832000	bb	227	226	128	Bromochloromethane
2	96	86	99	2	12990000	bv	285	283	65	1,2-Dichloroethane-d4
3	50	0	93	0	14000	bb	27	27	50	Chloromethane
	49	0	95	2	14000	bb	29			
	39	0	96	18	4000	bb	45			
4	44	2	81	1	6429	??	60	59	94	Bromomethane
	41	2	81	6	273	??	65			
	40	2	75	3	13286	v?	62			
5	40	1	94	17	5000	bb	96	79	62	Vinyl Chloride
	35	0	77	12	3000	bb	91			
6	36	1	79	-13	4000	bb	93	106	64	Chloroethane
	32	1	67	-9	11000	bb	97			
	23	0	47	-6	3000	bb	100			
7 OK	96	87	98	2	3044000	bb	159	157	84	Methylene Chloride
8	76	46	99	-2	445683	vv	170	172	43	Acetone
	59	17	99	4	20366	??	176			
	55	15	99	8	44683	??	180			
9	56	35	73	3	112000	bv	190	187	76	Carbon Disulfide
	39	22	58	7	24000	?b	194			
	26	6	52	13	7000	bb	200			
10	91	76	99	2	555000	bb	215	213	96	1,1-Dichloroethene
11	64	23	99	1	97000	bb	244	243	63	1,1-Dichloroethane
	39	0	90	-15	58000	bb	228			
12	94	81	99	2	1659000	bb	258	256	96	1,2-Dichloroethene (to
13	89	71	99	2	963000	bb	272	270	83	Chloroform
14	29	18	36	1	54000	bb	287	286	62	1,2-Dichloroethane
15	52	0	99	1	112000	vv	283	282	43	2-Butanone
	41	1	84	7	22000	??	289			
	40	5	84	-12	212000	vv	270			
16	84	62	99	2	41792000	bv	443	441	114	1,4-Difluorobenzene
17	88	68	98	1	351000	bb	315	314	97	1,1,1-Trichloroethane
18	43	11	71	1	14000	bb	324	323	117	Carbon Tetrachloride
	42	6	82	-8	38000	bb	315			
19	---------- No Trace Found ----------							0	1	
20	---------- No Trace Found ----------							334	83	Bromodichloromethane
21	---------- No Trace Found ----------							362	63	1,2-Dichloropropane
22	---------- No Trace Found ----------							367	75	cis-1,3-Dichloropropen
23	95	81	99	1	3635000	bb	378	377	130	Trichloroethene
24	---------- No Trace Found ----------							394	129	Dibromochloromethane
25	83	63	94	1	452000	bb	397	396	97	1,1,2-Trichloroethane
26	43	13	69	2	50000	bb	389	387	78	Benzene
27	---------- No Trace Found ----------							394	75	trans-1,3-dichloroprop
28	---------- No Trace Found ----------							0	1	
29	16	1	31	4	3000	bb	457	453	173	Bromoform
30	91	75	99	2	35951960	bv	559	557	117	Chlorobenzene-d5
31	85	68	99	4	20336150	bv	716	712	95	4-Bromofluor[illegible]
32	83	65	95	2	48038000	bv	525	523	98	Toluene-d8
33	52	20	80	2	14375	??	462	460	43	4-Methyl-2-Pentanone
	49	18	78	4	8875	??	464			

000019

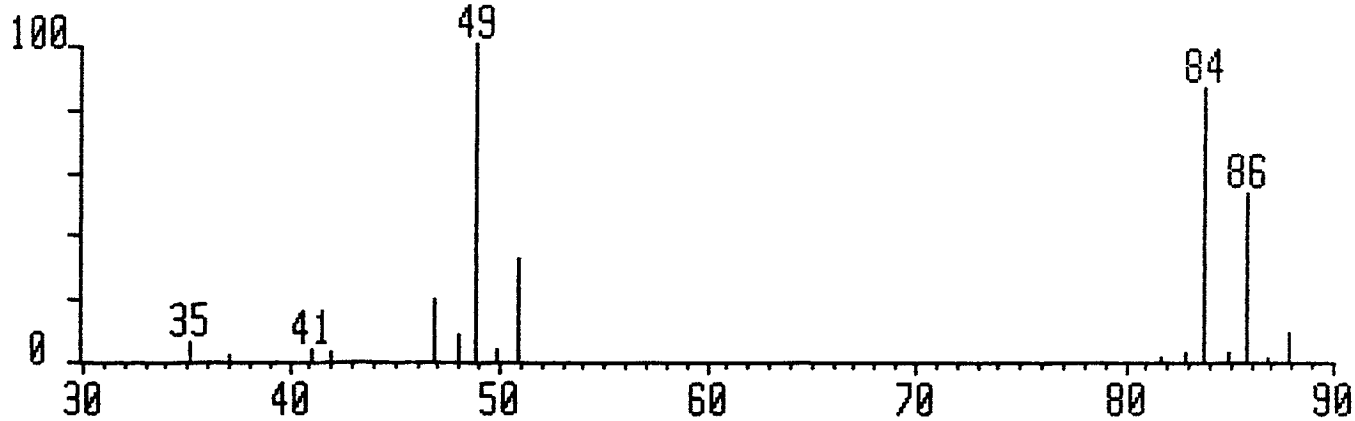
	48	16	77	-2	0	??	458				
34	61	27	89	1	13568	??	494	493	43	2-Hexanone	
	57	27	87	-5	1000	??	488				
	57	31	86	7	81784	v?	500				
35	---------- No Trace Found ----------							498	164	Tetrachloroethene	
36	45	4	82	1	16000	??	503	502	83	1,1,2,2-Tetrachloroeth	
	44	4	82	3	16000	??	505				
	42	3	85	-8	20000	??	494				
37	47	4	87	2	215000	bb	530	528	91	Toluene	
38	25	1	49	4	8000	bb	565	561	112	Chlorobenzene	
	20	0	38	1	7000	bb	562				
39	---------- No Trace Found ----------							625	106	Ethylbenzene	
40	---------- No Trace Found ----------							760	104	Styrene	
41	---------- No Trace Found ----------							769	106	m-Xylene	
42	---------- No Trace Found ----------							803	106	o-/p-Xylene	
43	---------- No Trace Found ----------							0	-		

II 1101

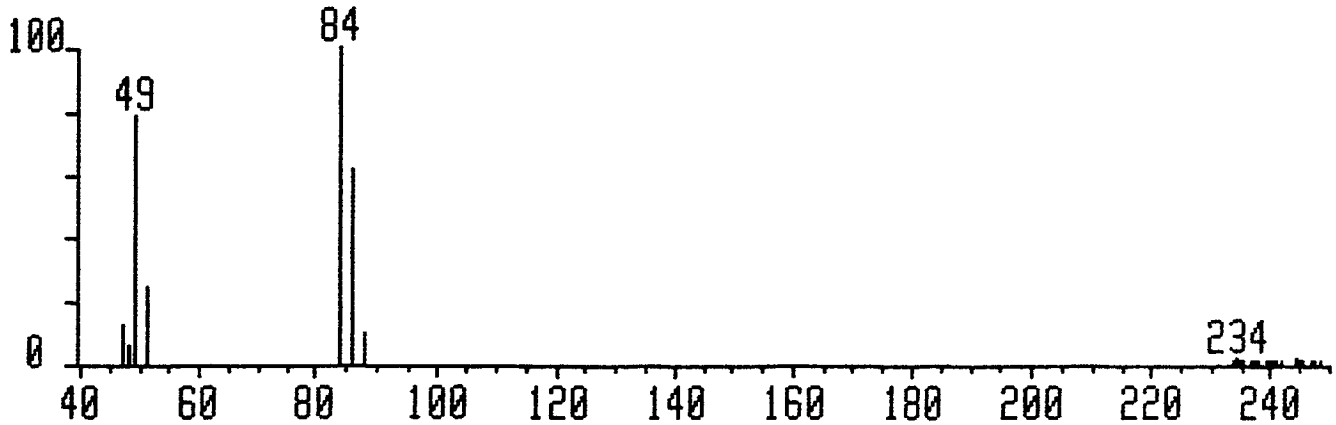
II1101#159 x1 Bgd=1 24-JUL-92 21:37+0:08:43 EI+
I=91mv TIC=2091000 26202 Acnt:
Text:BETWEEN ~~22602~~ Methylene Chloride



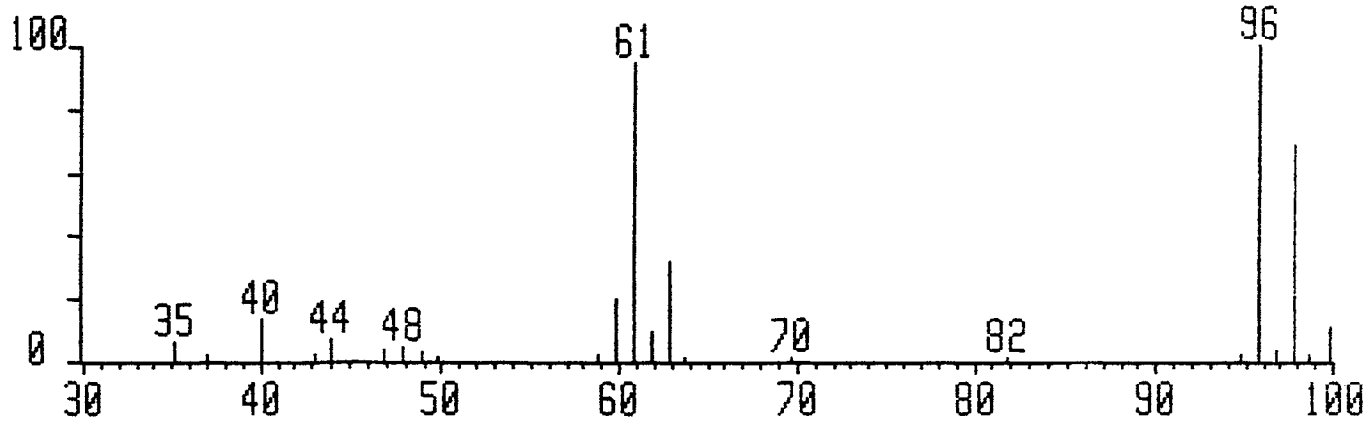
II1101S#159 x1 Bgd=153 24-JUL-92 21:37+0:08:43 EI+
I=91mv TIC=1972000 26202 SU Acnt:
Text:BETWEEN ~~22602~~ Methylene Chloride



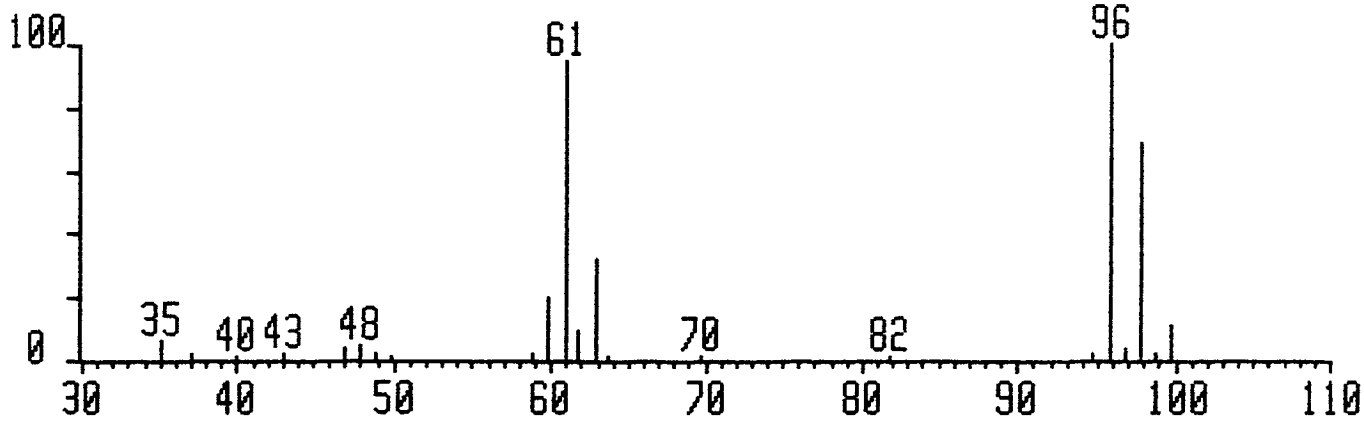
V8240#7 x1 Bgd=1 1-DEC-89 13:03+0:00:23 EI+
I=234mv TIC=10910000 Acnt:VG#2
Text:Methylene Chloride



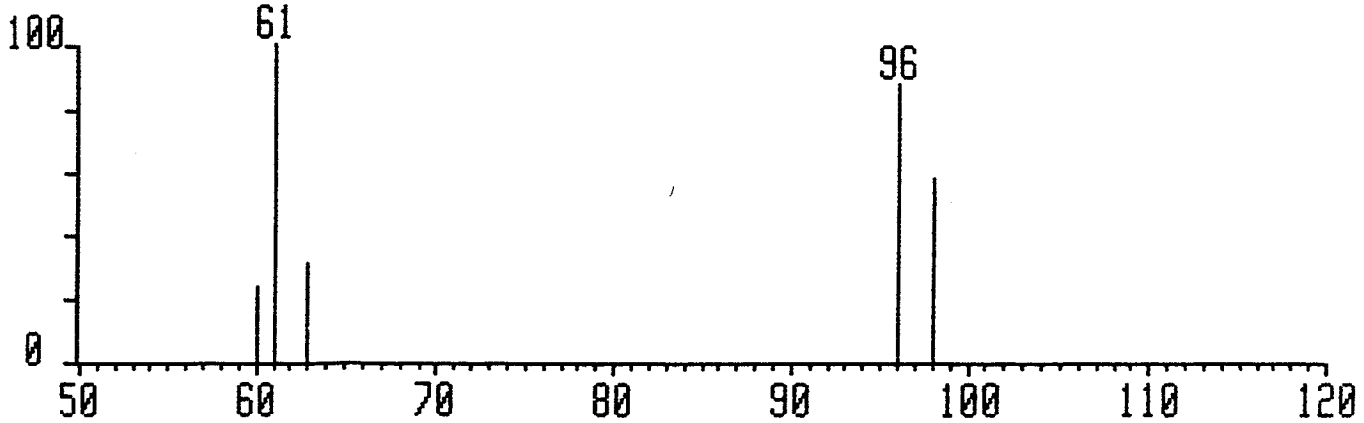
II1101#258 x1 Bgd=221 24-JUL-92 21:37+0:13:42 EI+
I=60mv TIC=1526000 26202 Acnt:
Text:BETWEEN_~~22602~~_1,2-Dichloroethene (total)



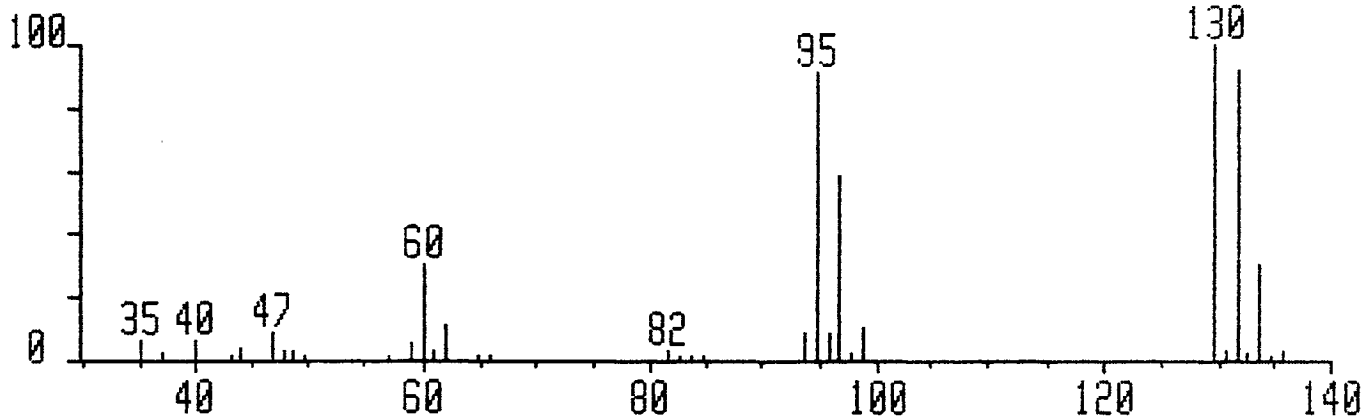
II1101S#258 x1 Bgd=253 24-JUL-92 21:37+0:13:42 EI+
I=60mv TIC=1449000 26202 SU Acnt:
Text:BETWEEN_~~22602~~_1,2-Dichloroethene (total)



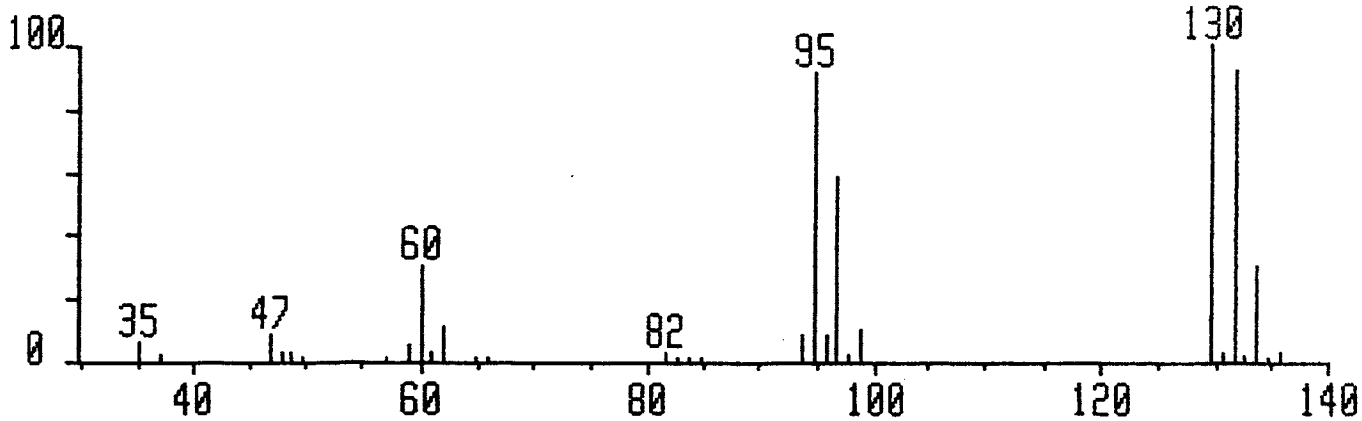
V8240#12 x1 Bgd=1 1-DEC-89 13:03+0:00:38 EI+
I=236mv TIC=11204000 Acnt:VG#2
Text:trans-1,2-Dichloroethene



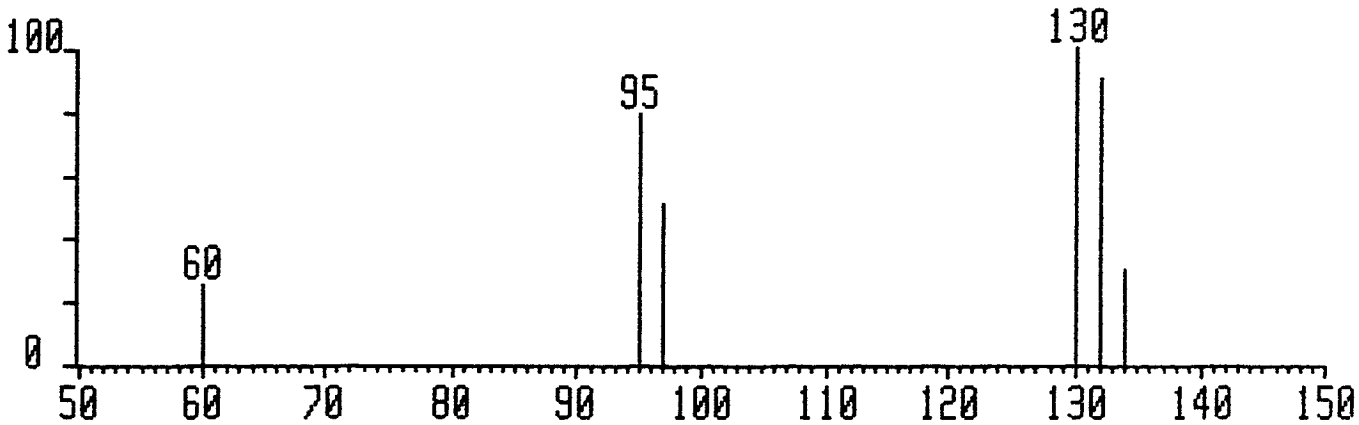
II1101#378 x1 Bgd=277 24-JUL-92 21:37+0:19:45 EI+
I=128mv TIC=4152000 Acnt:
Text:BETWEEN_~~22602~~ 26202 _TrichLoroethene



II1101S#378 x1 Bgd=372 24-JUL-92 21:37+0:19:45 EI+
I=128mv TIC=4075000 SU Acnt:
Text:BETWEEN_~~22602~~ 26202 _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 II1101 TIC ~~22602~~ 26202

Internal Standard	Scan	Area	Conc
Bromochloromethane	227	3974	50
1,4-Difluorobenzene	443	5851	50
Chlorobenzene-d5	559	6831	50

TIC Scan	BKG Scan	IS Scan	Area	Conc
~~112~~		~~227~~	~~486~~	~~6~~

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EFFLUENT

Lab Name: PACIFIC ANALYTICAL Contract: D10098

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

Matrix: (soil/water) Lab Sample ID: ~~22609~~ 26203

Sample wt/vol: 5.0(g/mL) ML Lab File ID: II1091

Level: (low/med) LOW Date Received: 07/16/92

% Moisture: not dec. Date Analyzed: 07/24/92

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	J
67-64-1	Acetone	6	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	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: D10098

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

Matrix: (soil/water) Lab Sample ID: ~~22608~~ 26203

Sample wt/vol: 5.0(g/mL) ML Lab File ID: II1091

Level: (low/med) LOW Date Received: 07/16/92

% Moisture: not dec. Date Analyzed: 07/24/92

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

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

Number TICs found: 0

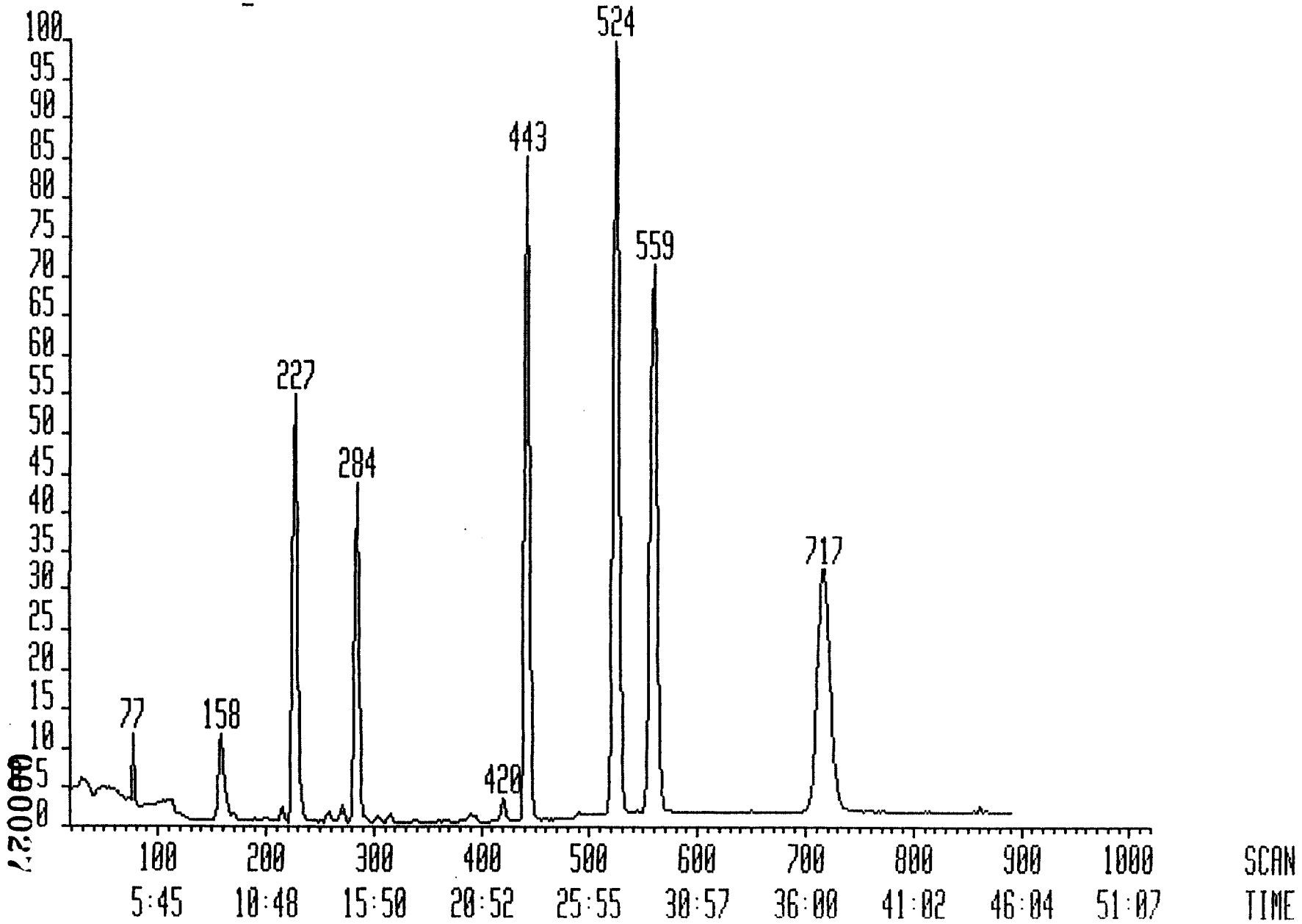
CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

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.				

II1091 #20-890 24-JUL-92 20:45 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 22154000

Text:EFFLUENT_ ~~22603~~ 26203



Interim Report Sample Analysis 24-AUG-92 13:31:21

Datafile: II1091 24-JUL-92 20:45
Database: VOA91H
Library: VOA91

Instrument: VG#2
Account:
Text: EFFLUENT_ ~~22603~~ 26203

QRE
M.S.
8/24/92

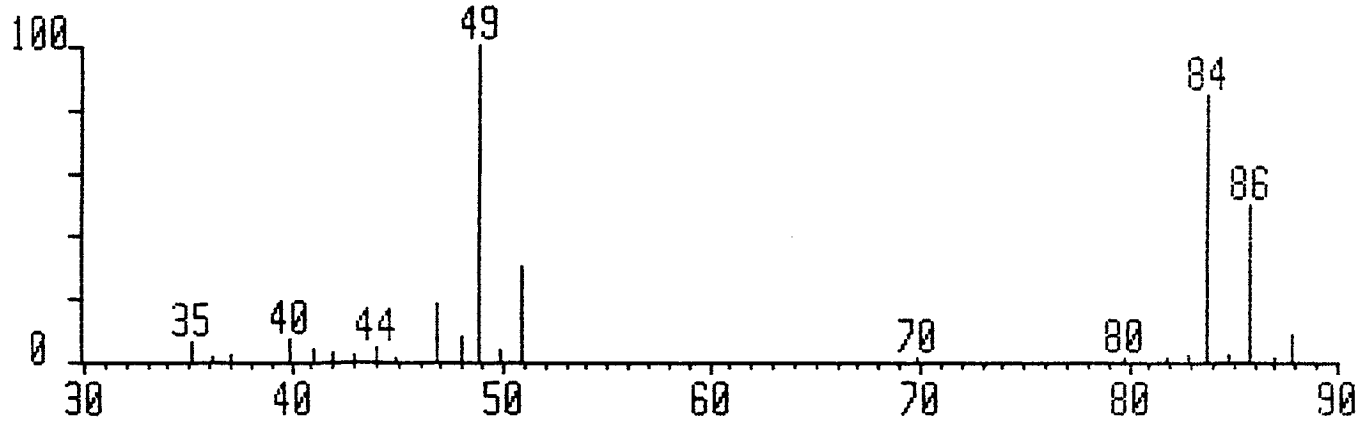
No.	Rank	Spectrum Match	Spectrum Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	100	92	99	1	8431000	bv	227	226	128	Bromochloromethane
2	97	86	98	1	13039000	bb	284	283	65	1,2-Dichloroethane-d4
3	52	0	97	0	16000	bb	27	27	50	Chloromethane
	49	0	96	4	7000	bb	31			
	48	0	93	2	5000	?b	29			
4	45	2	83	1	25600	v?	60	59	94	Bromomethane
	42	3	88	10	3121	??	69			
	40	2	81	8	1600	??	67			
5	37	0	77	8	6000	bb	87	79	62	Vinyl Chloride
	35	0	77	12	3000	bb	91			
6	24	0	57	17	4000	bb	123	106	64	Chloroethane
	23	1	57	19	4000	bb	125			
7	98	88	98	1	3732000	bb	158	157	84	Methylene Chloride
8	77	48	99	-2	517531	bv*	170	172	43	Acetone
9	72	51	90	3	260000	bb	190	187	76	Carbon Disulfide
10	89	71	99	2	393000	bb	215	213	96	1,1-Dichloroethene
11	64	20	99	0	71000	bb	243	243	63	1,1-Dichloroethane
	39	0	91	-15	53000	bb	228			
12	89	72	99	2	360000	bb	258	256	96	1,2-Dichloroethene (to
13	82	57	99	1	611000	bb	271	270	83	Chloroform
14	27	18	34	1	52000	bb	287	286	62	1,2-Dichloroethane
15	53	0	99	0	80000	?b	282	282	43	2-Butanone
	50	12	98	-12	228000	vv	270			
	46	6	84	-3	8500	??	279			
16	85	62	99	1	41015000	bv*	442	441	114	1,4-Difluorobenzene
17	88	68	98	1	349000	bb	315	314	97	1,1,1-Trichloroethane
18	42	7	81	-8	33000	bb	315	323	117	Carbon Tetrachloride
19	---------- No Trace Found ----------							0	1	
20	---------- No Trace Found ----------							334	83	Bromodichloromethane
21	---------- No Trace Found ----------							362	63	1,2-Dichloropropane
22	23	3	53	19	4000	bb	386	367	75	cis-1,3-Dichloropropen
23	29	4	50	1	4000	bb	378	377	130	Trichloroethene
	14	0	31	13	4000	bb	390			
	12	0	26	11	4000	bb	388			
24	---------- No Trace Found ----------							394	129	Dibromochloromethane
25	37	8	63	-1	24000	bb	395	396	97	1,1,2-Trichloroethane
	37	10	60	1	24000	bb	397			
	23	2	46	-9	4000	bb	387			
26	40	5	73	4	67000	bb	391	387	78	Benzene
	33	5	59	2	55000	b?	389			
27	30	3	60	-8	4000	bb	386	394	75	trans-1,3-dichloroprop
	29	2	55	-4	7000	bb	390			
	20	0	37	0	4000	bb	394			
28	---------- No Trace Found ----------							0	1	
29	---------- No Trace Found ----------							453	173	Bromoform
30	91	75	99	2	35976000	bv	559	557	117	Chlorobenzene-d5
31	83	67	99	5	20282630	bv	717	712	95	4-Bromofluorobenzene
32	84	65	94	1	46589860	bv	524	523	98	Toluene-d8
33	56	22	84	1	12222	??	461	460	43	4-Methyl-2-Pentanone

000028

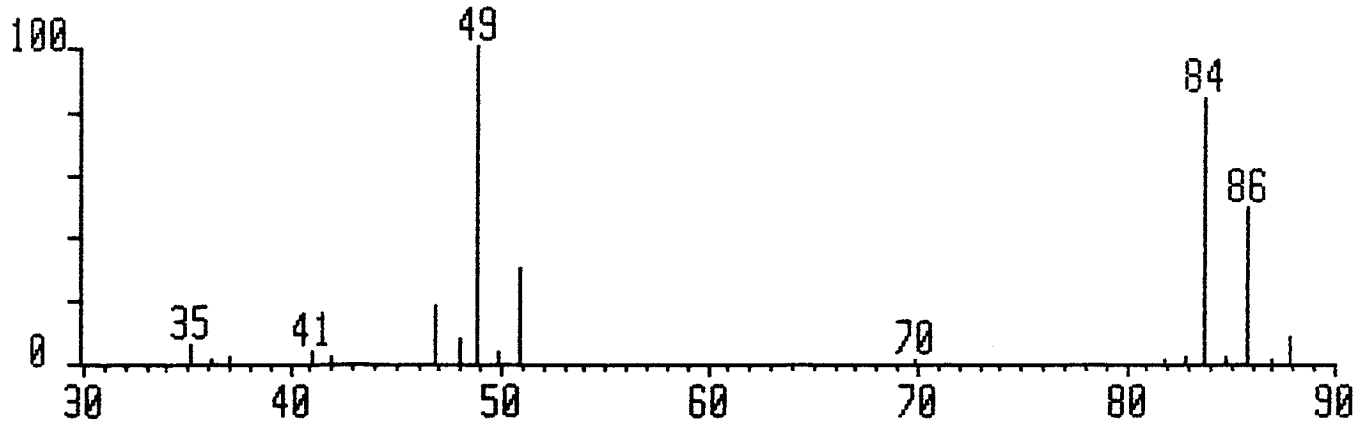
	50	18	78	-2	7185	??	458			
	50	21	80	6	3419	??	466			
34	59	26	88	2	9675	??	495	493	43	2-Hexanone
	57	22	85	0	2438	??	493			
	57	29	88	7	26750	??	500			
35	----------		No	Trace	Found	----------		498	164	Tetrachloroethene
36	44	4	79	0	2765	??	502	502	83	1,1,2,2-Tetrachloroeth
	42	2	85	-7	6556	??	495			
	42	3	77	-2	2000	??	500			
37	53	6	96	2	251000	vb	530	528	91	Toluene
38	25	1	47	3	15000	bb	564	561	112	Chlorobenzene
	19	0	37	-2	4000	bb	559			
	17	0	39	15	3000	bb	576			
39	----------		No	Trace	Found	----------		625	106	Ethylbenzene
40	11	0	21	3	3000	bb	763	760	104	Styrene
41	----------		No	Trace	Found	----------		769	106	m-Xylene
42	----------		No	Trace	Found	----------		803	106	o-/p-Xylene
43	----------		No	Trace	Found	----------		0	-	

II1091

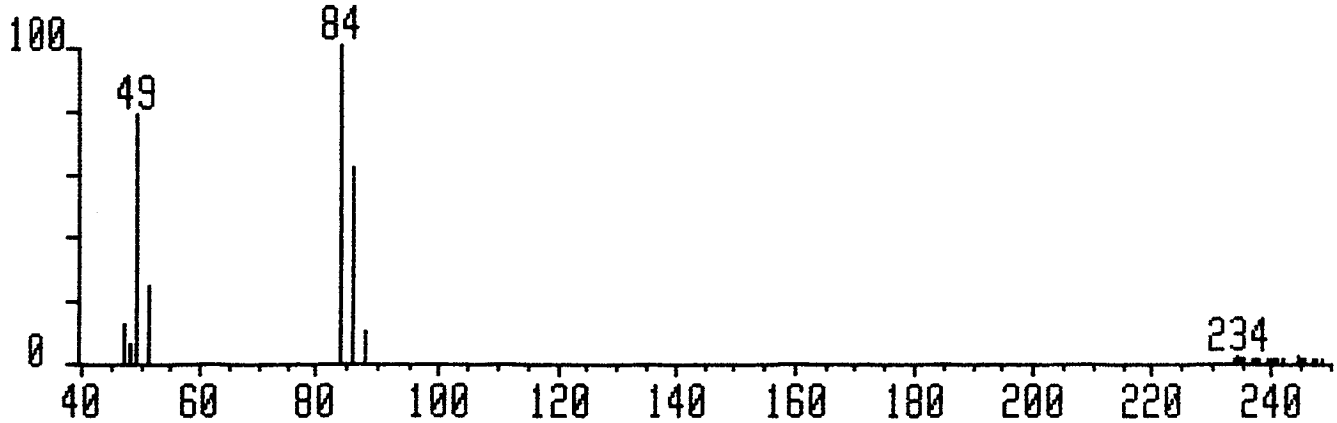
II1091#158 x1 Bgd=1 24-JUL-92 20:45+0:08:40 EI+
I=118mv TIC=2592000 Acnt:
Text:EFFLUENT_~~22603~~ 26203 _MethyLene ChLoride



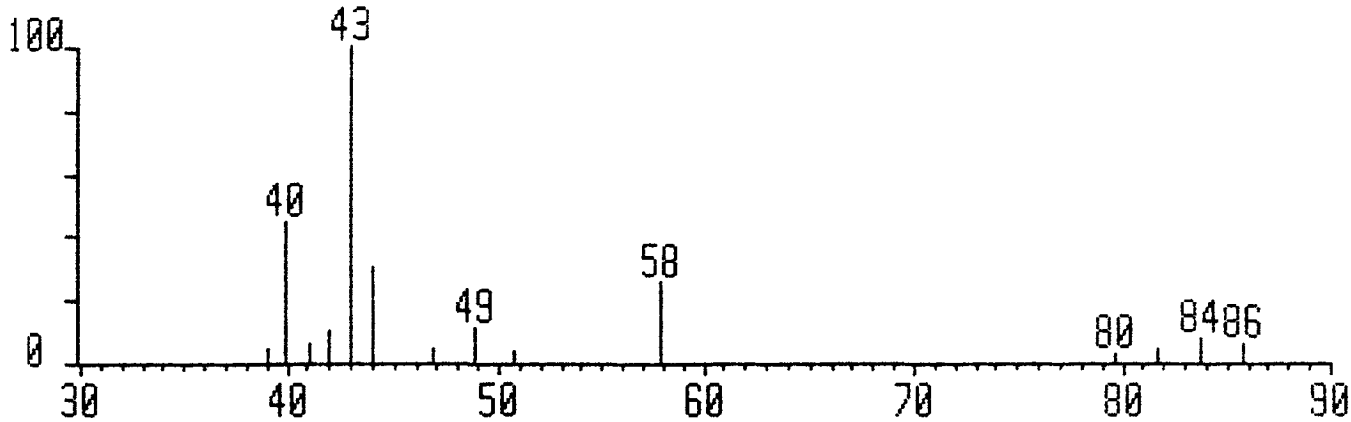
II1091S#158 x1 Bgd=152 24-JUL-92 20:45+0:08:40 EI+
I=118mv TIC=2481000 26203 SU Acnt:
Text:EFFLUENT_~~22603~~ _MethyLene ChLoride



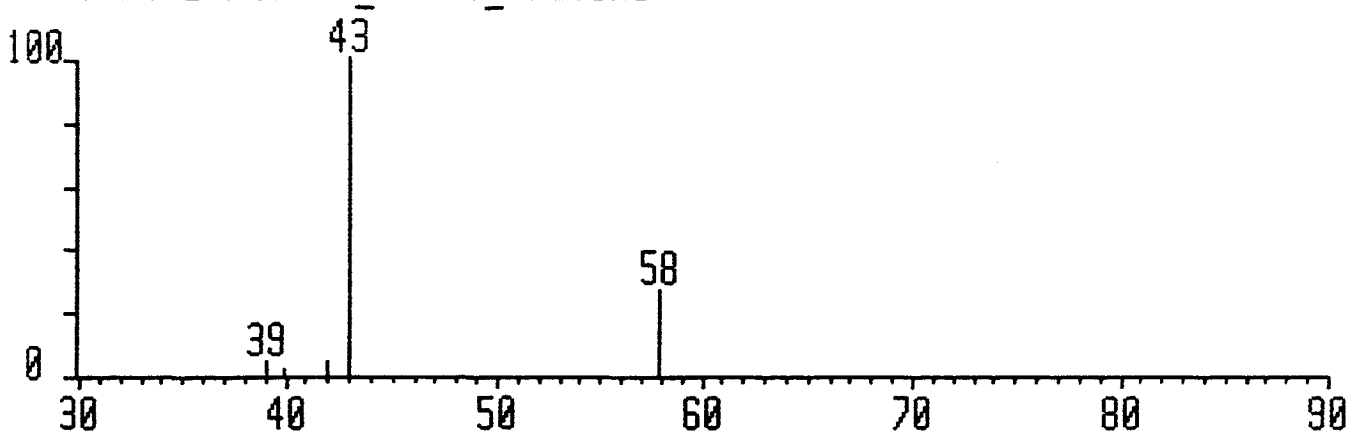
V8240#7 x1 Bgd=1 1-DEC-89 13:03+0:00:23 EI+
I=234mv TIC=10910000 Acnt:VG#2
Text:MethyLene ChLoride



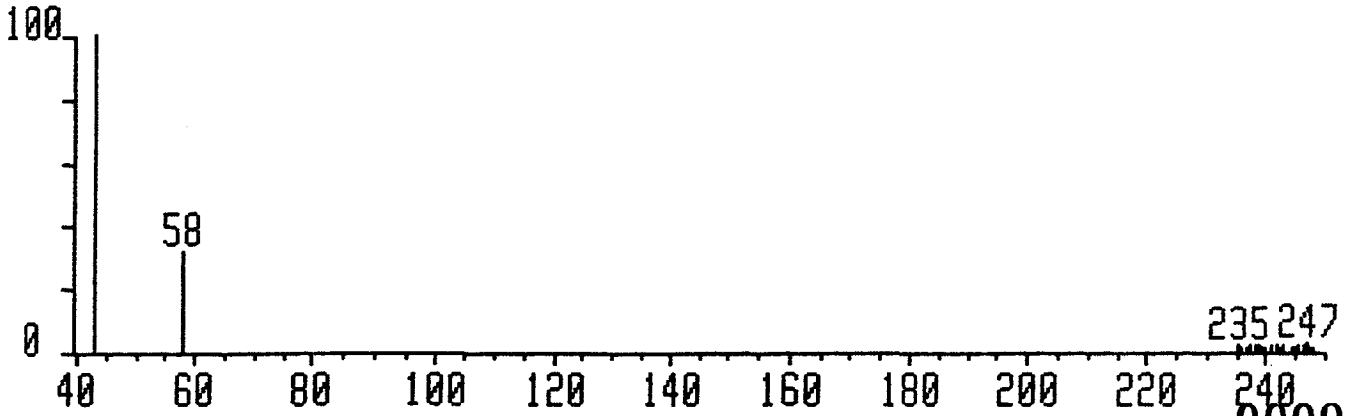
II1091#170 x1 Bgd=1 24-JUL-92 20:45+0:09:16 EI+
I=19mv TIC=318000 Acnt:
Text:EFFLUENT_~~22603~~ 26203 _Acetone



II1091S#170 x1 Bgd=164 24-JUL-92 20:45+0:09:16 EI+
I=17mv TIC=158000 SU Acnt:
Text:EFFLUENT_~~22603~~ 26203 _Acetone



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



ATT RESULTS II1091 TIC ~~22608~~ 26203

Internal Standard	Scan	Area	Conc
Bromochloromethane	227	3794	50
1,4-Difluorobenzene	442	5742	50
Chlorobenzene-d5	559	6835	50

TIC Scan	BKG Scan	IS Scan	Area	Conc

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): 07/16/92 07/16/92

Heated Purge: (Y/N) N Calibration Times: 1844 2210

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

LAB FILE ID: RRF10 =FF3121 RRF20 =FF3111
RRF50=FF3131 RRF100=FF3101 RRF200=FF3091

COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Chloromethane	1.933	1.929	2.106	2.239	2.051	2.052	6.3
Bromomethane	* 1.325	1.263	1.068	1.006	0.941	1.121	14.8*
Vinyl Chloride	* 1.488	1.452	1.457	1.365	1.372	1.427	3.9*
Chloroethane	0.875	0.858	0.938	0.933	0.908	0.902	3.9
Methylene Chloride	2.906	2.457	2.182	1.951	1.876	2.274	18.4
Acetone	0.591	0.524	0.452	0.441	0.376	0.477	17.3
Carbon Disulfide	4.475	4.845	4.941	5.146	4.763	4.834	5.1
1,1-Dichloroethene	* 1.611	1.785	1.748	1.881	1.717	1.748	5.6*
1,1-Dichloroethane	* 2.519	2.646	2.895	2.914	2.648	2.724	6.3*
1,2-Dichloroethene (total)	1.741	1.842	1.853	2.018	1.804	1.852	5.6
Chloroform	* 3.231	3.395	3.406	3.507	3.230	3.354	3.6*
1,2-Dichloroethane	* 1.729	1.847	1.865	2.036	1.869	1.869	5.9*
2-Butanone	0.735	0.743	0.728	0.845	0.677	0.746	8.2
1,1,1-Trichloroethane	* 0.577	0.613	0.603	0.640	0.575	0.602	4.5*
Carbon Tetrachloride	* 0.527	0.557	0.564	0.610	0.554	0.562	5.4*
Bromodichloromethane	* 0.504	0.550	0.534	0.592	0.522	0.540	6.2*
1,2-Dichloropropane	0.306	0.311	0.312	0.331	0.293	0.311	4.4
cis-1,3-Dichloropropene	* 0.577	0.577	0.588	0.665	0.578	0.597	6.4*
Trichloroethene	* 0.381	0.401	0.420	0.434	0.394	0.406	5.2*
Dibromochloromethane	* 0.374	0.388	0.409	0.437	0.403	0.402	5.9*
1,1,2-Trichloroethane	* 0.295	0.315	0.300	0.337	0.286	0.307	6.5*
Benzene	* 1.099	1.123	1.131	1.263	1.055	1.134	6.9*
trans-1,3-dichloropropene	* 0.414	0.437	0.378	0.477	0.413	0.424	8.6*
Bromoform	* 0.212	0.229	0.236	0.257	0.235	0.234	6.9*
4-Methyl-2-Pentanone	0.333	0.358	0.361	0.396	0.356	0.361	6.3
2-Hexanone	0.246	0.209	0.221	0.241	0.216	0.227	7.1
Tetrachloroethene	* 0.337	0.347	0.352	0.379	0.360	0.355	4.4*
1,1,2,2-Tetrachloroethane	* 0.410	0.422	0.449	0.477	0.445	0.441	5.9*
Toluene	* 1.357	1.368	1.425	1.399	1.337	1.377	2.5*
Chlorobenzene	* 1.005	1.040	1.021	1.058	1.030	1.031	1.9*
Ethylbenzene	* 0.560	0.579	0.558	0.619	0.578	0.579	4.2*
Styrene	* 1.101	1.056	1.103	1.202	1.100	1.112	4.8*
Xylene (total)	* 0.674	0.661	0.660	0.700	0.664	0.672	2.5*
Toluene-d8	1.269	1.255	1.227	1.296	1.328	1.275	3.0
4-Bromofluorobenzene	* 0.580	0.576	0.536	0.596	0.574	0.572	3.9*
1,2-Dichloroethane-d4	1.618	1.683	1.682	1.705	1.712	1.680	2.2

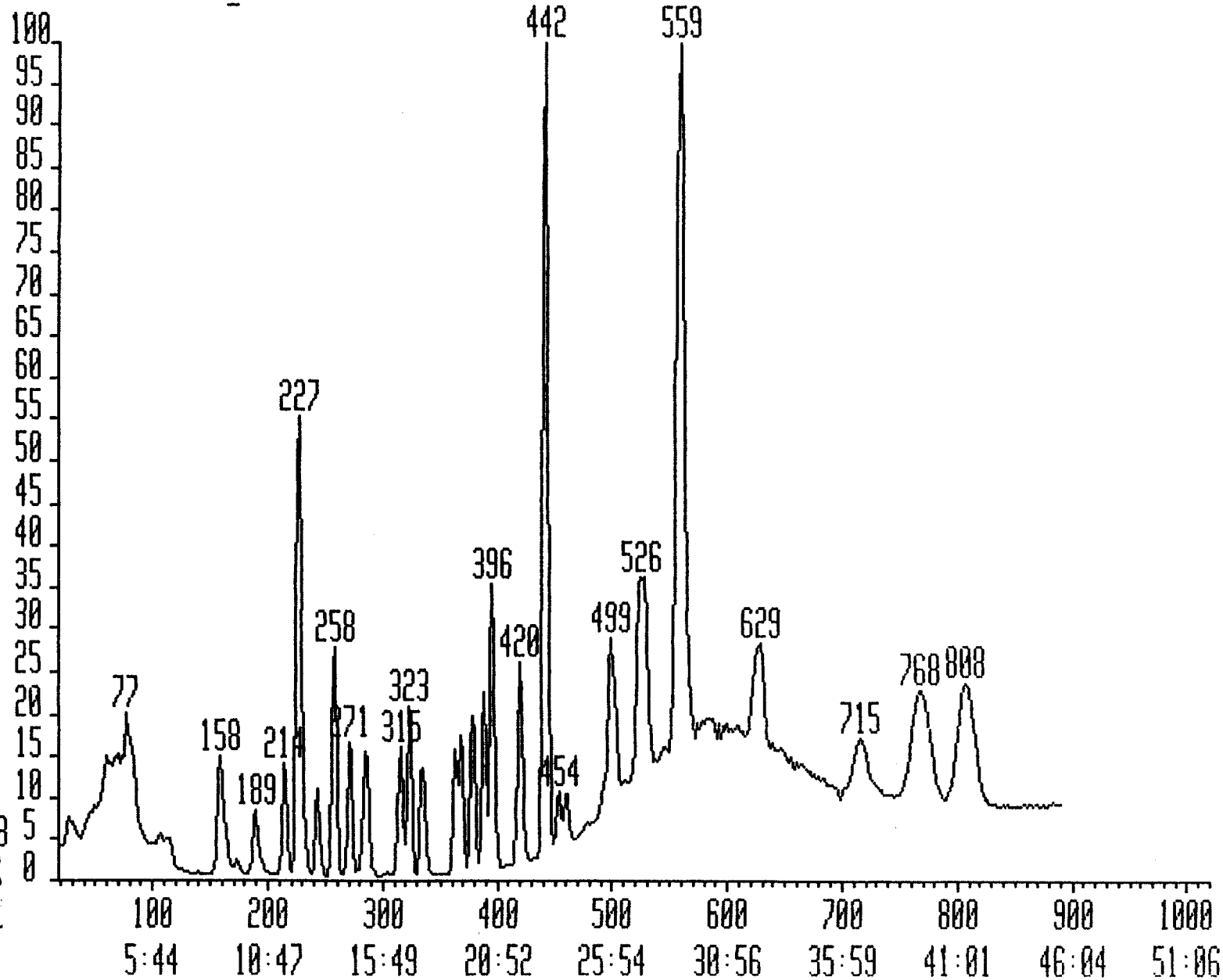
* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

000033

FF3121 #20-890 16-JUL-92 21:18 VG#2 (EI+) Sys:IDVOA IHP

Chromatogram Identifiers : B1:35:260 B: 21014000

Text:VSTD010_ 00010



000034

Datafile: FF3121 16-JUL-92 21:18
Database: VOA91Y
Library: VOA91

Instrument: VG#2
Account:
Text: VSTD010_ 00010

QRE
gm. 8.
7/17/92

No.	Rank	Spectrum Match	Spectrum Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	91	74	99	1	8578000	bb	227	226	128	Bromochloromethane
2	65	25	98	1	2775000	bb	284	283	65	1,2-Dichloroethane-d4
3	56	6	99	0	~~1403000 b~~?		27	27	50	Chloromethane 3317059
	53	5	99	4	2253000	?v	31			
	31	0	74	17	55000	?b	44			
4	52	0	98	1	~~1125134~~	b?	60	59	94	Bromomethane 2273976
	48	0	96	5	1147256	?v	64			
	32	0	80	19	288385	??	78			
5	53	0	99	0	~~1347000~~	bv	79	79	62	Vinyl Chloride 2552555
	47	0	99	8	1339222	?b	87			
6	53	2	98	1	~~878000~~	v?*	107	106	64	Chloroethane 1500761
	49	1	98	6	752000	?b	112			
7	73	40	98	1	4986000	bb	158	157	84	Methylene Chloride
8	56	7	99	1	1014414	bv	173	172	43	Acetone
	37	0	75	-6	1290	??	166			
	36	0	75	-8	0	??	164			
9	67	29	99	2	7678000	bv	189	187	76	Carbon Disulfide
10	72	38	99	1	2764000	bv	214	213	96	1,1-Dichloroethene
11	67	27	99	0	4321000	bb	243	243	63	1,1-Dichloroethane
	38	0	90	-16	62000	bb	227			
12	78	51	99	2	5973000	bb	258	256	96	1,2-Dichloroethene (to
13	75	43	99	1	5543000	bb	271	270	83	Chloroform
14	68	31	97	1	2967000	bb	287	286	62	1,2-Dichloroethane
15	55	6	99	1	1261333	vv	283	282	43	2-Butanone
	45	0	97	-10	10667	??	272			
	44	0	98	-12	9800	??	270			
16	79	51	99	1	41786000	bb	442	441	114	1,4-Difluorobenzene
17	74	42	98	1	4823000	bb	315	314	97	1,1,1-Trichloroethane
18	72	37	98	0	4406000	vb	323	323	117	Carbon Tetrachloride
	50	6	98	-8	630000	bv	315			
19	---------- No Trace Found ----------							0	1	
20	73	38	99	0	4212000	bb	334	334	83	Bromodichloromethane
21	72	39	98	1	2559000	bb	363	362	63	1,2-Dichloropropane
22	73	39	99	1	4819000	bb	368	367	75	cis-1,3-Dichloropropen
23	76	45	99	1	3183000	bb	378	377	130	Trichloroethene
24	62	19	99	1	3123000	bb	395	394	129	Dibromochloromethane
25	66	25	99	0	2468185	vb	396	396	97	1,1,2-Trichloroethane
26	78	51	96	1	9181000	bb	388	387	78	Benzene
27	62	19	99	1	3456000	vb	395	394	75	trans-1,3-dichloroprop
28	---------- No Trace Found ----------							0	1	
29	65	25	99	1	1770000	bb	454	453	173	Bromoform
30	78	50	99	2	35718930	vv	559	557	117	Chlorobenzene-d5
31	59	16	98	3	~~2271119 v?~~		715	712	95	4-Bromofluorobenzene
	57	16	98	5	2285237	?v	717		4146174	
32	70	33	99	1	9068938	vv	524	523	98	Toluene-d8
33	68	30	98	1	2375769	vb	461	460	43	4-Methyl-2-Pentanone
	43	9	82	9	15857	??	469			
	41	10	82	13	0	??	473			
34	62	27	91	1	1754971	vb	494	493	43	2-Hexanone

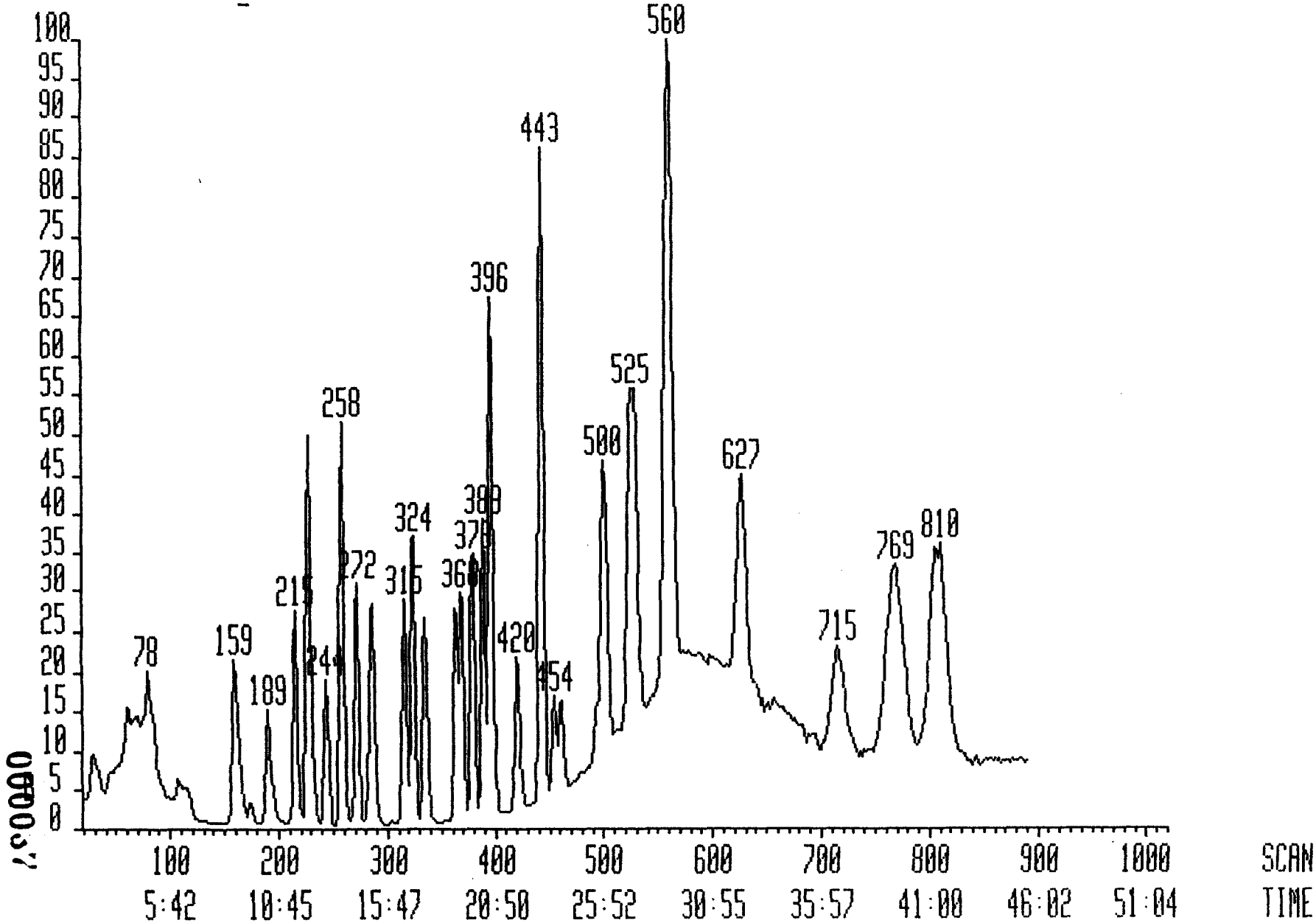
	41	12	74	-8	24300	??	485			
	40	12	74	-10	18333	??	483			
35	72	37	99	1	2409000	bb	499	498	164	Tetrachloroethene
36	62	18	99	1	2927500	vv	503	502	83	1,1,2,2-Tetrachloroeth
	43	3	89	9	16000	??	511			
	41	3	83	-9	15034	??	493			
37	70	34	99	1	9692756	vv	529	528	91	Toluene
38	60	17	99	2	7181689	vv	563	561	112	Chlorobenzene
	33	0	77	16	50156	??	577			
	31	0	70	-13	10158	??	548			
39	67	27	99	1	4001000	bb	626	625	106	Ethylbenzene
40	62	24	98	4	7862571	bv	764	760	104	Styrene
41	63	27	96	3	4814000	bb	772	769	106	m-Xylene
42	68	36	99	5	9265316	vv	808	803	106	o-/p-Xylene
	39	3	85	-14	5938	??	789			
43	---------- No Trace Found ----------							0	-	

FF3121

FF3111 #20-890 16-JUL-92 20:27 VG#2 (EI+) Sys:IDVOA IHP

Chromatogram Identifiers : B1:35:260 B: 24031000

Text:VSTD020_ 00020



Interim Report Sample Analysis 17-JUL-92 09:05:16

Datafile: FF3111 16-JUL-92 20:27
Database: VOA91Y
Library: VOA91

Instrument: VG#2
Account:
Text: VSTD020_ 00020

QRE
m. 8.
7/17/92

No.	Rank	Spectrum Match	Spectrum Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	90	72	99	1	8603000	bb	227	226	128	Bromochloromethane
2	69	33	99	2	5792000	bb	285	283	65	1,2-Dichloroethane-d4
3	58	11	99	1	~~2482000~~	b?	28	27	50	Chloromethane 6636703
	55	10	99	4	4910000	?v	31			
	37	0	90	-18	10000	bb	9			
4	52	0	99	1	~~2163308~~	bv	60	59	94	Bromomethane 4347845
	48	0	98	6	2135462	?v	65			
5	52	0	99	1	~~2283242~~	bv	80	79	62	Vinyl Chloride 4995523
	47	0	99	9	3001069	?b	88			
6	54	4	98	1	~~1490000~~ v	?*	107	106	64	Chloroethane 2951369
	49	3	98	7	1006000	??	113			
	48	3	98	9	1095000	?v	115			
7	77	49	98	2	8455000	bb	159	157	84	Methylene Chloride
8	58	12	99	2	1803000	bv	174	172	43	Acetone
	35	0	75	-9	24000	??	163			
	33	0	75	-14	30722	??	158			
9	74	44	99	2	16672420	bv	189	187	76	Carbon Disulfide
10	79	52	99	2	6142000	bv	215	213	96	1,1-Dichloroethene
11	72	35	99	0	9106000	bv	243	243	63	1,1-Dichloroethane
12	84	62	99	2	12674000	bv	258	256	96	1,2-Dichloroethene (to
13	83	60	99	2	11684000	bb	272	270	83	Chloroform
14	72	41	95	1	6355000	bb	287	286	62	1,2-Dichloroethane
15	57	9	99	1	2557138	vv	283	282	43	2-Butanone
	44	0	93	-9	9586	??	273			
	43	0	96	-12	3500	??	270			
16	80	52	99	1	42543000	bb	442	441	114	1,4-Difluorobenzene
17	82	57	98	1	10435000	bb	315	314	97	1,1,1-Trichloroethane
18	79	51	98	1	9481000	vb	324	323	117	Carbon Tetrachloride
	51	8	99	-8	1379000	bv	315			
19	---------- No Trace Found ----------							0	1	
20	79	51	99	1	9365000	bb	335	334	83	Bromodichloromethane
21	78	50	98	1	5289000	bb	363	362	63	1,2-Dichloropropane
22	80	54	99	2	9823000	bb	369	367	75	cis-1,3-Dichloropropen
23	83	58	99	1	6819000	bb	378	377	130	Trichloroethene
24	64	23	99	1	6605000	bb	395	394	129	Dibromochloromethane
25	69	32	99	1	5361500	vb	397	396	97	1,1,2-Trichloroethane
26	84	63	96	1	19103000	bb	388	387	78	Benzene
27	64	22	99	1	7436000	vb	395	394	75	trans-1,3-dichloroprop
28	---------- No Trace Found ----------							0	1	
29	73	40	99	1	3900000	bb	454	453	173	Bromoform
30	76	46	99	2	37312010	vv	559	557	117	Chlorobenzene-d5
31	63	26	98	4	8600752	vb	716	712	95	4-Bromofluorobenzene
32	74	42	99	1	18734330	vv	524	523	98	Toluene-d8
33	74	42	99	1	5347637	vv	461	460	43	4-Methyl-2-Pentanone
	45	11	82	8	53500	??	468			
34	70	37	95	1	3121445	vb	494	493	43	2-Hexanone
	42	14	73	-8	98571	??	485			
35	78	50	99	2	5173000	bb	500	498	164	Tetrachloroethene
36	65	25	99	1	6294556	vv	503	502	83	1,1,2,2-Tetrachloroeth

000038

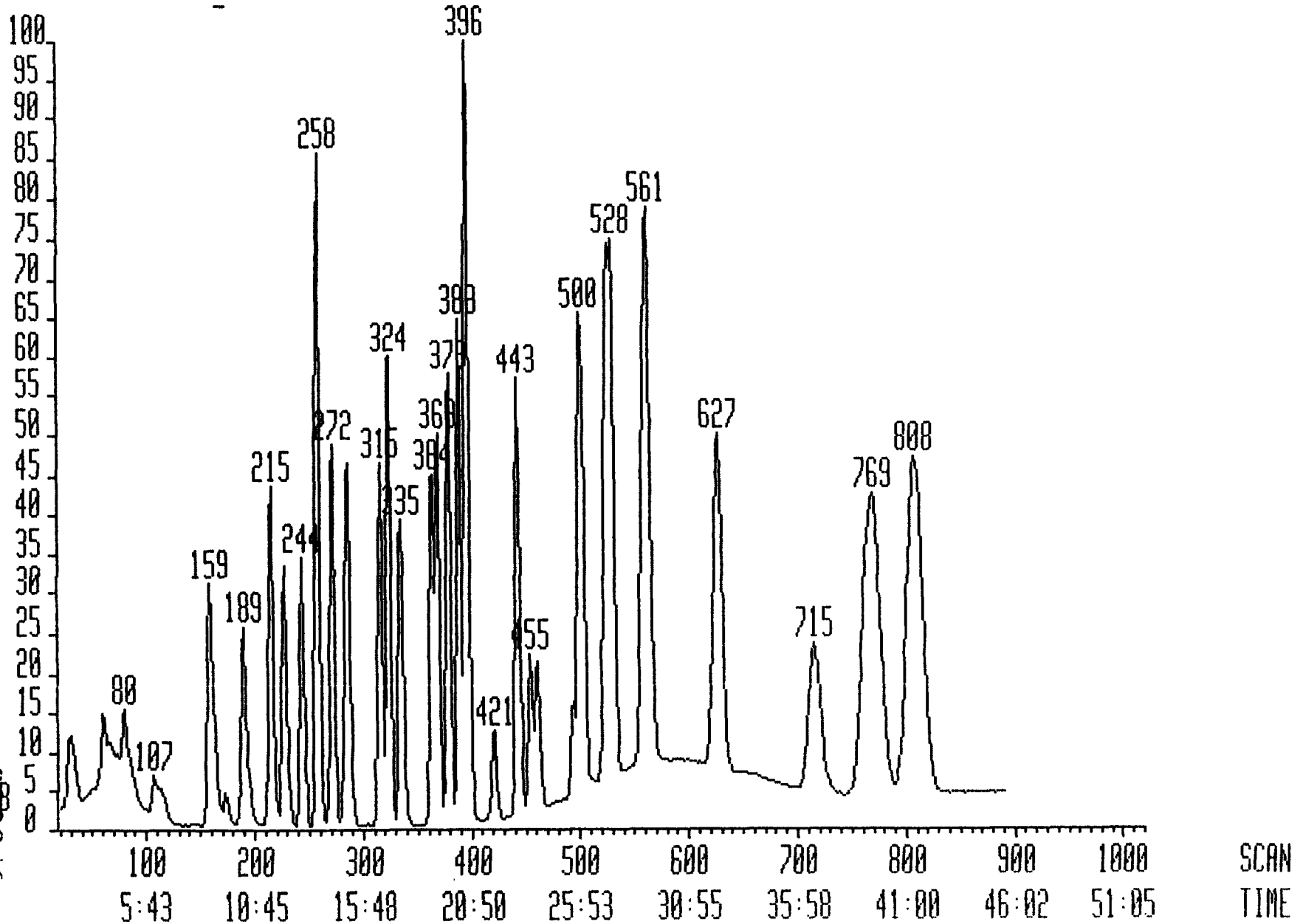
	41	4	85	10	20741	??	512			
	40	4	85	12	24778	??	514			
37	76	45	99	1	20421800	vv	529	528	91	Toluene
38	65	26	99	2	15515640	vv	563	561	112	Chlorobenzene
39	71	37	99	2	8644000	bb	627	625	106	Ethylbenzene
40	70	37	99	3	~~11190780~~	~~b?~~	763	760	104	Styrene 15 761 363
	67	36	98	5	11190780	b?	765			
41	71	40	96	2	~~2527900~~	??	771	769	106	m-Xylene 9863668
42	75	51	99	5	~~10789720~~	b?	808	803	106	o-/p-Xylene 19 432 424
	72	50	99	7	9536327	?v	810			
43	---------- No Trace Found ----------							0	-	

FF3111

FF3131 #20-890 16-JUL-92 22:10 VG#2 (EI+) Sys:IDVOA IHP

Chromatogram Identifiers : B1:35:260 B: 36951000

Text:VSTD050_ 00050



000040

Interim Report Sample Analysis 17-JUL-92 09:15:11

Datafile: FF3131 16-JUL-92 22:10
Database: VOA91Y
Library: VOA91

Instrument: VG#2
Account:
Text: VSTD050_ 00050

QRE
on. H.
7/17/92

No.	Rank	Spectrum Match	Spectrum Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	90	71	99	1	8669000	bb	227	226	128	Bromochloromethane
2	73	41	98	1	14585000	bb	284	283	65	1,2-Dichloroethane-d4
3	65	22	99	0	~~6234750~~	b?	27	27	50	Chloromethane 18 259 444
	63	26	99	4	13703500	?v	31			
	35	0	88	-19	5000	bb	8			
4	52	0	99	1	~~5076000~~	bv	60	59	94	Bromomethane 9 259 600
	49	0	99	6	4398000	?v	65			
5	52	0	99	1	~~5675586~~	b?	80	79	62	Vinyl Chloride 12632895
	48	2	99	8	7772656	?b	87			
6	57	10	98	1	~~4024000~~	v?*	107	106	64	Chloroethane 8 128717
	51	7	98	7	3187000	?v	113			
7	86	67	98	2	18916000	bb	159	157	84	Methylene Chloride
8	62	19	99	1	3918936	vv*	173	172	43	Acetone
	45	0	99	-12	38277	??	160			
	35	0	75	-9	21681	??	163			
9	85	64	99	2	42832390	bv	189	187	76	Carbon Disulfide
10	85	64	99	2	15155000	bb	215	213	96	1,1-Dichloroethene
11	77	47	99	1	25098000	bv	244	243	63	1,1-Dichloroethane
12	89	71	99	2	32125740	bv	258	256	96	1,2-Dichloroethene (to
13	90	73	99	2	29529000	bv	272	270	83	Chloroform
14	78	51	96	1	16170000	bb	287	286	62	1,2-Dichloroethane
15	59	13	99	1	6312376	vv	283	282	43	2-Butanone
	48	0	98	-7	14312	??	275			
	43	0	96	-13	8708	??	269			
16	78	51	99	2	42200000	bv*	443	441	114	1,4-Difluorobenzene
17	89	69	99	1	25434000	bb	315	314	97	1,1,1-Trichloroethane
18	83	60	98	1	23782000	vb	324	323	117	Carbon Tetrachloride
19	----------		No	Trace	Found	----------		0	1	
20	87	66	99	1	22537000	bv	335	334	83	Bromodichloromethane
21	84	62	98	1	13182000	bb	363	362	63	1,2-Dichloropropane
22	85	64	99	2	24815000	bb	369	367	75	cis-1,3-Dichloropropen
23	88	69	99	2	17705000	bv	379	377	130	Trichloroethene
24	67	28	99	1	17277000	bb	395	394	129	Dibromochloromethane
25	71	35	99	1	12646000	vv	397	396	97	1,1,2-Trichloroethane
26	90	76	96	2	47742000	bb	389	387	78	Benzene
27	63	22	99	2	15960070	vb	396	394	75	trans-1,3-dichloroprop
28	----------		No	Trace	Found	----------		0	1	
29	85	65	99	2	9966000	bb	455	453	173	Bromoform
30	74	43	99	2	37002260	bv	559	557	117	Chlorobenzene-d5
31	72	44	99	4	19849710	vv	716	712	95	4-Bromofluorobenzene
32	81	55	99	1	45391070	vv	524	523	98	Toluene-d8
33	83	59	99	1	13351730	vv	461	460	43	4-Methyl-2-Pentanone
34	79	51	98	1	8175375	vb	494	493	43	2-Hexanone
35	85	65	99	2	13030000	bb	500	498	164	Tetrachloroethene
36	72	39	99	2	16602120	vv	504	502	83	1,1,2,2-Tetrachloroeth
	43	3	90	10	19118	??	512			
	42	3	90	12	18059	??	514			
37	85	64	99	2	52725580	vv	530	528	91	Toluene
38	75	45	99	2	37790060	vv	563	561	112	Chlorobenzene

000041

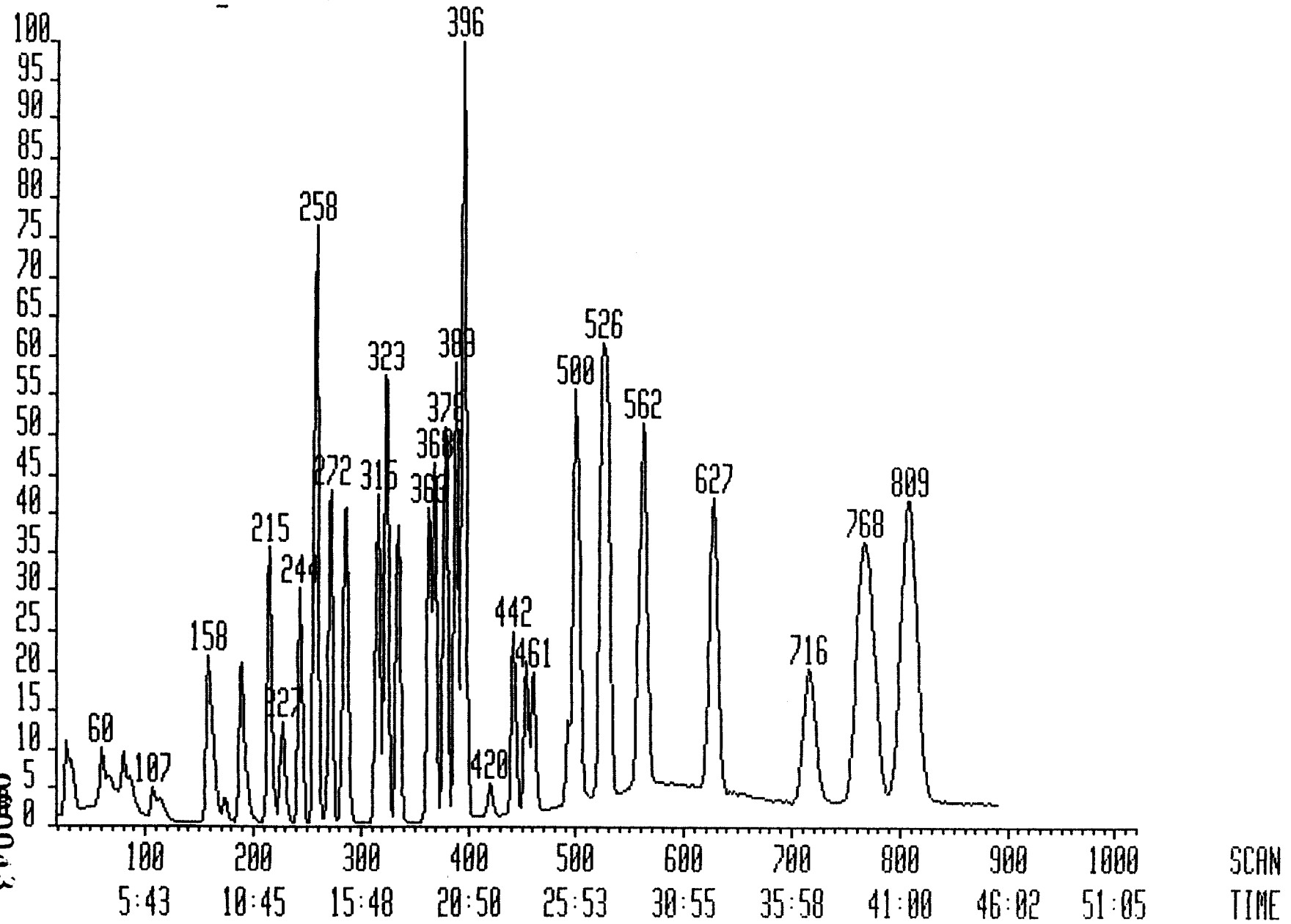
39	82	59	99	2	20650000	bv	627	625	106	Ethylbenzene
40	77	52	99	4	40817940	vv	764	760	104	Styrene
41	79	56	96	2	24409000	bb	771	769	106	m-Xylene
	78	57	97	4	24409000	bb	773			
42	85	67	99	3	~~21470130 b~~?		806	803	106	o-/p-Xylene 49 257 796
	83	67	99	5	29128630	?b	808			
43	---------- No Trace Found ----------							0		-

FF3131

FF3101 #20-890 16-JUL-92 19:35 VG#2 (EI+) Sys:IDVOA IHP

Chromatogram Identifiers : B1:35:260 B: 86382000

Text:VSTD100_ 00100



000043

Interim Report Sample Analysis 17-JUL-92 09:00:23

Datafile: FF3101 16-JUL-92 19:35
Database: VOA91Y
Library: VOA91

QRE
m.g.
7/17/92

Instrument: VG#2
Account:
Text: VSTD100_ 00100

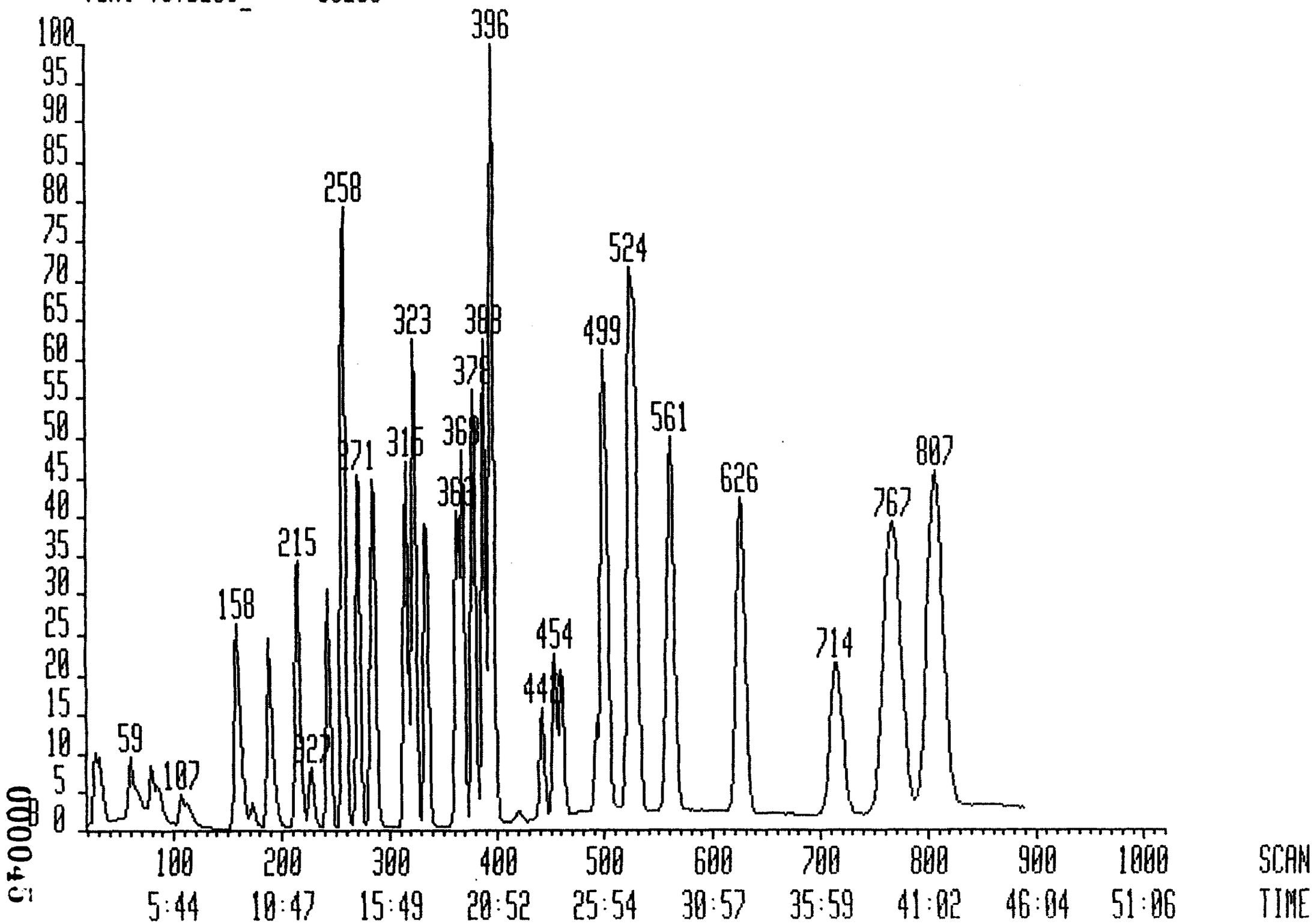
No.	Rank	Spectrum Match	Fit	Scan Diff	Peak Area	Flgs	Scan Found	Pred	Quan m/z	Compound Name
1	90	72	99	1	8424000	bb	227	226	128	Bromochloromethane
2	73	41	99	2	28734000	bb	285	283	65	1,2-Dichloroethane-d4
3	75	42	99	0	~~15587380~~	b?	27	27	50	Chloromethane 37716156
	69	38	99	5	19044880	?b	32			
4	53	1	99	1	~~9125500~~	bv	60	59	94	Bromomethane 16945974
	48	0	99	7	8862700	?v	66			
5	52	0	99	1	~~10463450~~	bv	80	79	62	Vinyl Chloride 22993050
	47	3	99	10	13982210	?b	89			
6	60	15	98	1	~~7368305~~	v?*	107	106	64	Chloroethane 15722587
	53	12	98	7	8015348	?v	113			
7	91	74	98	1	32872000	bb	158	157	84	Methylene Chloride
8	69	31	99	1	7431152	bv*	173	172	43	Acetone
9	90	74	99	2	86702460	bv	189	187	76	Carbon Disulfide
10	88	70	99	2	31694000	bb	215	213	96	1,1-Dichloroethene
11	79	50	99	1	49092310	bv	244	243	63	1,1-Dichloroethane
12	91	76	99	2	68014010	bb	258	256	96	1,2-Dichloroethene (to
13	93	79	99	2	59088900	bv	272	270	83	Chloroform
14	80	55	96	1	34299000	bv	287	286	62	1,2-Dichloroethane
15	61	17	99	1	14230670	vv*	283	282	43	2-Butanone
	36	0	84	-15	11000	??	267			
	36	0	84	16	4000	??	298			
16	79	50	99	1	41887000	bb	442	441	114	1,4-Difluorobenzene
17	92	75	99	1	53622000	bv	315	314	97	1,1,1-Trichloroethane
18	86	64	98	1	51081000	vb	324	323	117	Carbon Tetrachloride
19	----------		No	Trace	Found	----------		0	1	
20	90	72	99	1	49591500	vv	335	334	83	Bromodichloromethane
21	87	67	98	1	27747470	bv	363	362	63	1,2-Dichloropropane
22	91	73	99	1	55699000	bb	368	367	75	cis-1,3-Dichloropropen
23	91	74	99	1	36388000	bv	378	377	130	Trichloroethene
24	67	27	99	1	36647000	bb	395	394	129	Dibromochloromethane
25	72	37	99	1	28195830	vv	397	396	97	1,1,2-Trichloroethane
26	91	79	95	2	105780700	bv	389	387	78	Benzene
27	66	26	99	1	39993620	vv*	395	394	75	trans-1,3-dichloroprop
28	----------		No	Trace	Found	----------		0	1	
29	91	74	99	1	21542000	bb	454	453	173	Bromoform
30	73	39	99	1	35237920	bv	558	557	117	Chlorobenzene-d5
31	76	51	99	4	42030620	vb	716	712	95	4-Bromofluorobenzene
32	84	60	99	1	91342480	vv	524	523	98	Toluene-d8
33	89	70	99	1	27884920	vb	461	460	43	4-Methyl-2-Pentanone
34	86	61	99	0	16982880	vb	493	493	43	2-Hexanone
35	91	73	99	1	26729000	bb	499	498	164	Tetrachloroethene
36	75	45	99	2	33643000	vv	504	502	83	1,1,2,2-Tetrachloroeth
37	88	67	99	1	98604220	vv	529	528	91	Toluene
38	81	57	99	2	74538780	vv	563	561	112	Chlorobenzene
39	86	66	99	2	43640140	bv	627	625	106	Ethylbenzene
40	82	61	99	3	84721860	vb	763	760	104	Styrene
41	81	61	96	3	49339020	bb*	772	769	106	m-Xylene
42	86	73	99	5	99899550	bb	808	803	106	o-/p-Xylene
43	----------		No	Trace	Found	----------		0	-	

000044

FF3091 #20-889 16-JUL-92 18:44 VG#2 (EI+) Sys:IDVOA IHP

Chromatogram Identifiers : B1:35:260 B: 145881136

Text:VSTD200_ 00200



00004

Interim Report Sample Analysis 17-JUL-92 08:55:25

Datafile: FF3091 16-JUL-92 18:44
Database: VOA91Y
Library: VOA91

Instrument: VG#2
Account:
Text: VSTD200_ 00200

QRE
m.g.
7/17/92

No.	Rank	Spectrum Match	Spectrum Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	90	71	99	1	8267000	bb	227	226	128	Bromochloromethane
2	77	48	98	1	56613000	bv	284	283	65	1,2-Dichloroethane-d4
3	80	51	99	0	~~25008130~~	b?	27	27	50	Chloromethane 67835760
	79	55	99	3	50997200	?b	30			
4	55	3	99	0	31120100	bv	59	59	94	Bromomethane
5	53	1	99	0	~~19434830~~	b?	79	79	62	Vinyl Chloride 45362440
	51	7	99	8	28685690	?b	87			
6	63	22	98	1	~~15525130~~	b?	107	106	64	Chloroethane 30020288
	59	19	98	5	17121410	?b	111			
	57	19	98	7	17121410	?b	113			
7	96	83	98	1	62042000	bv	158	157	84	Methylene Chloride
8	74	42	99	1	12432670	vv	173	172	43	Acetone
9	95	81	99	1	157491300	bv	188	187	76	Carbon Disulfide
10	91	74	99	1	56764000	bb	214	213	96	1,1-Dichloroethene
11	81	53	99	0	87553660	bv*	243	243	63	1,1-Dichloroethane
12	92	77	99	2	119298000	bv	258	256	96	1,2-Dichloroethene (to
13	96	82	99	1	106816000	bv	271	270	83	Chloroform
14	83	60	97	1	61812500	bb	287	286	62	1,2-Dichloroethane
15	63	19	99	0	22381590	vv*	282	282	43	2-Butanone
	46	1	99	11	22432960	??	293			
	36	0	84	15	14932	??	297			
16	78	49	99	1	42304000	bv	442	441	114	1,4-Difluorobenzene
17	93	77	99	1	97294760	bv	315	314	97	1,1,1-Trichloroethane
18	89	70	98	1	93741000	vb	324	323	117	Carbon Tetrachloride
19	----------		No	Trace	Found	----------		0	1	
20	93	75	99	0	88321210	vv	334	334	83	Bromodichloromethane
21	88	69	98	1	49520330	bv	363	362	63	1,2-Dichloropropane
22	91	74	99	1	97729000	bb	368	367	75	cis-1,3-Dichloropropen
23	92	76	99	1	66597000	bv	378	377	130	Trichloroethene
24	67	28	99	1	68159000	bv	395	394	129	Dibromochloromethane
25	73	39	99	1	48429840	vb*	397	396	97	1,1,2-Trichloroethane
26	93	81	95	1	178580200	bv	388	387	78	Benzene
27	66	26	99	1	69915770	vv*	395	394	75	trans-1,3-dichloroprop
28	----------		No	Trace	Found	----------		0	1	
29	94	80	99	1	39729000	bb	454	453	173	Bromoform
30	71	34	99	0	35441000	bv	557	557	117	Chlorobenzene-d5
31	82	59	99	2	81362700	vv	714	712	95	4-Bromofluorobenzene
32	87	63	99	0	188239100	bv	523	523	98	Toluene-d8
33	93	74	99	0	50419810	vb	460	460	43	4-Methyl-2-Pentanone
34	89	67	99	0	30579000	vv	493	493	43	2-Hexanone
35	91	74	99	1	51048000	bb	499	498	164	Tetrachloroethene
36	77	46	99	1	63082520	vv	503	502	83	1,1,2,2-Tetrachloroeth
37	90	72	99	1	189596000	vv	529	528	91	Toluene
38	87	65	99	1	146080700	vv	562	561	112	Chlorobenzene
39	90	72	99	1	81939680	vv	626	625	106	Ethylbenzene
40	85	65	99	2	155930000	bb	762	760	104	Styrene
41	84	65	96	2	94148020	bb	771	769	106	m-Xylene
42	92	77	99	2	~~88441500~~	b?	805	803	106	o-/p-Xylene 188208768
	89	77	99	4	106944000	?b	807			

000046

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: PACIFIC ANALYTICAL Contract: D10098

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

Instrument ID: VG#2 Calibration Date: 07/24/92 Time: 1241

Lab File ID: II1021 Init. Calib. Date(s): 07/16/92 07/16/92

Heated Purge: (Y/N) N Init. Calib. Times: 1844 2210

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

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	2.052	1.826		11.0	
Bromomethane	1.121	0.941	0.100	16.0	25.0
Vinyl Chloride	1.427	1.229	0.100	14.0	25.0
Chloroethane	0.902	1.013		-12.0	
Methylene Chloride	2.274	2.295		-1.0	
Acetone	0.477	0.510		-7.0	
Carbon Disulfide	4.834	4.616		5.0	
1,1-Dichloroethene	1.748	1.604	0.100	8.0	25.0
1,1-Dichloroethane	2.724	2.705	0.200	1.0	25.0
1,2-Dichloroethene (total)	1.852	1.789		3.0	
Chloroform	3.354	3.363	0.200	0.0	25.0
1,2-Dichloroethane	1.869	1.845	0.100	1.0	25.0
2-Butanone	0.746	0.633		15.0	
1,1,1-Trichloroethane	0.602	0.592	0.100	2.0	25.0
Carbon Tetrachloride	0.562	0.561	0.100	0.0	25.0
Bromodichloromethane	0.540	0.531	0.200	2.0	25.0
1,2-Dichloropropane	0.311	0.304		2.0	
cis-1,3-Dichloropropene	0.597	0.575	0.200	4.0	25.0
Trichloroethene	0.406	0.404	0.300	0.0	25.0
Dibromochloromethane	0.402	0.386	0.100	4.0	25.0
1,1,2-Trichloroethane	0.307	0.298	0.100	3.0	25.0
Benzene	1.134	1.155	0.500	-2.0	25.0
trans-1,3-dichloropropene	0.424	0.423	0.100	0.0	25.0
Bromoform	0.234	0.223	0.100	5.0	25.0
4-Methyl-2-Pentanone	0.361	0.345		4.0	
2-Hexanone	0.227	0.215		5.0	
Tetrachloroethene	0.355	0.394	0.200	-11.0	25.0
1,1,2,2-Tetrachloroethane	0.441	0.441	0.500	0.0	25.0
Toluene	1.377	1.473	0.400	-7.0	25.0
Chlorobenzene	1.031	1.101	0.500	-7.0	25.0
Ethylbenzene	0.579	0.615	0.100	-6.0	25.0
Styrene	1.112	1.237	0.300	-11.0	25.0
Xylene (total)	0.672	0.729	0.300	-8.0	25.0
Toluene-d8	1.275	1.363		-7.0	
4-Bromofluorobenzene	0.572	0.557	0.200	3.0	25.0
1,2-Dichloroethane-d4	1.680	1.666		1.0	

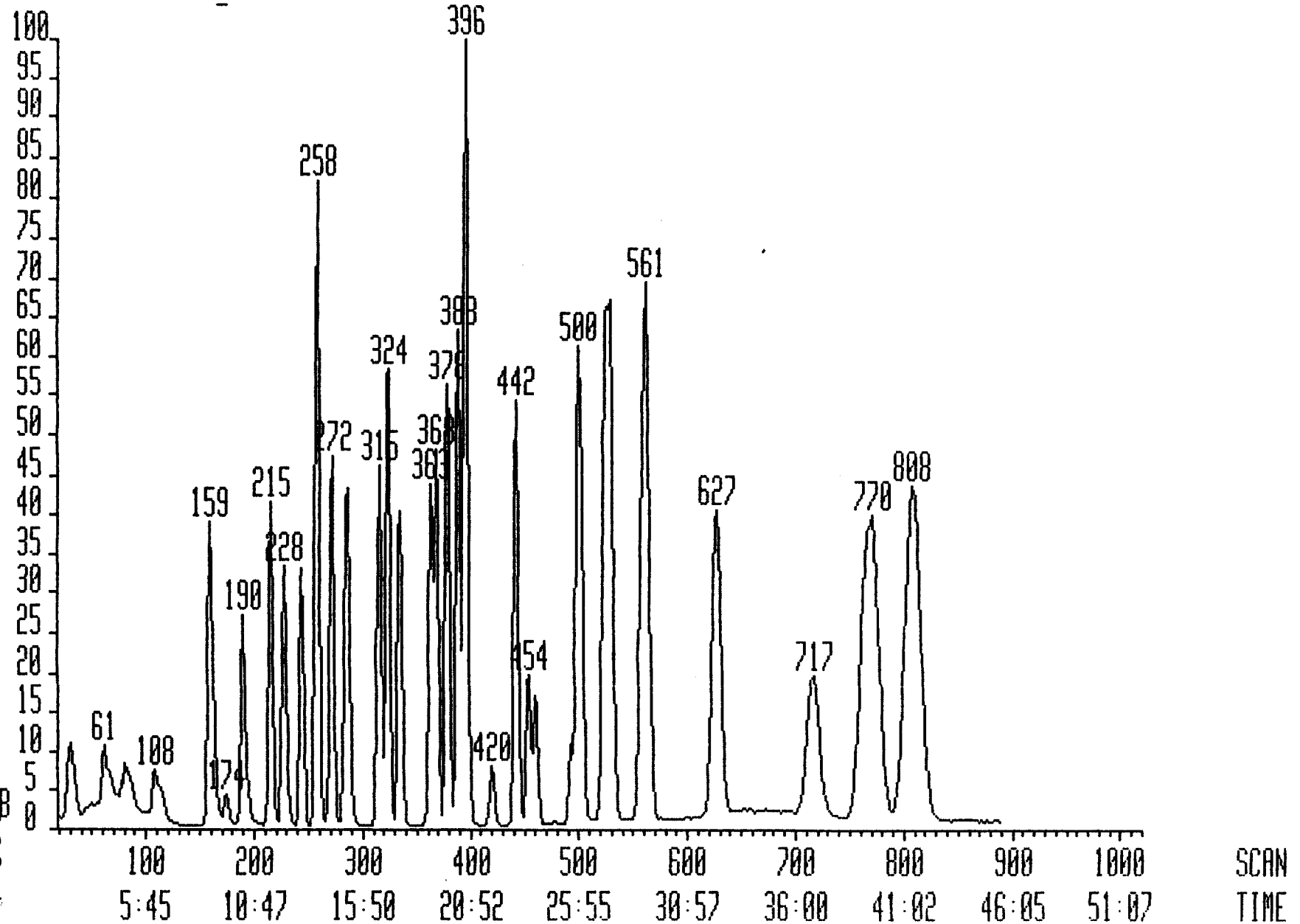
All other compounds must meet a minimum RRF of 0.010.

000047

II1021 #20-889 24-JUL-92 12:41 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 33580000

Text:VSTD050_ 00050



000048

Interim Report Sample Analysis 24-AUG-92 13:07:12

Datafile: II1021 24-JUL-92 12:41
Database: VOA91H
Library: VOA91

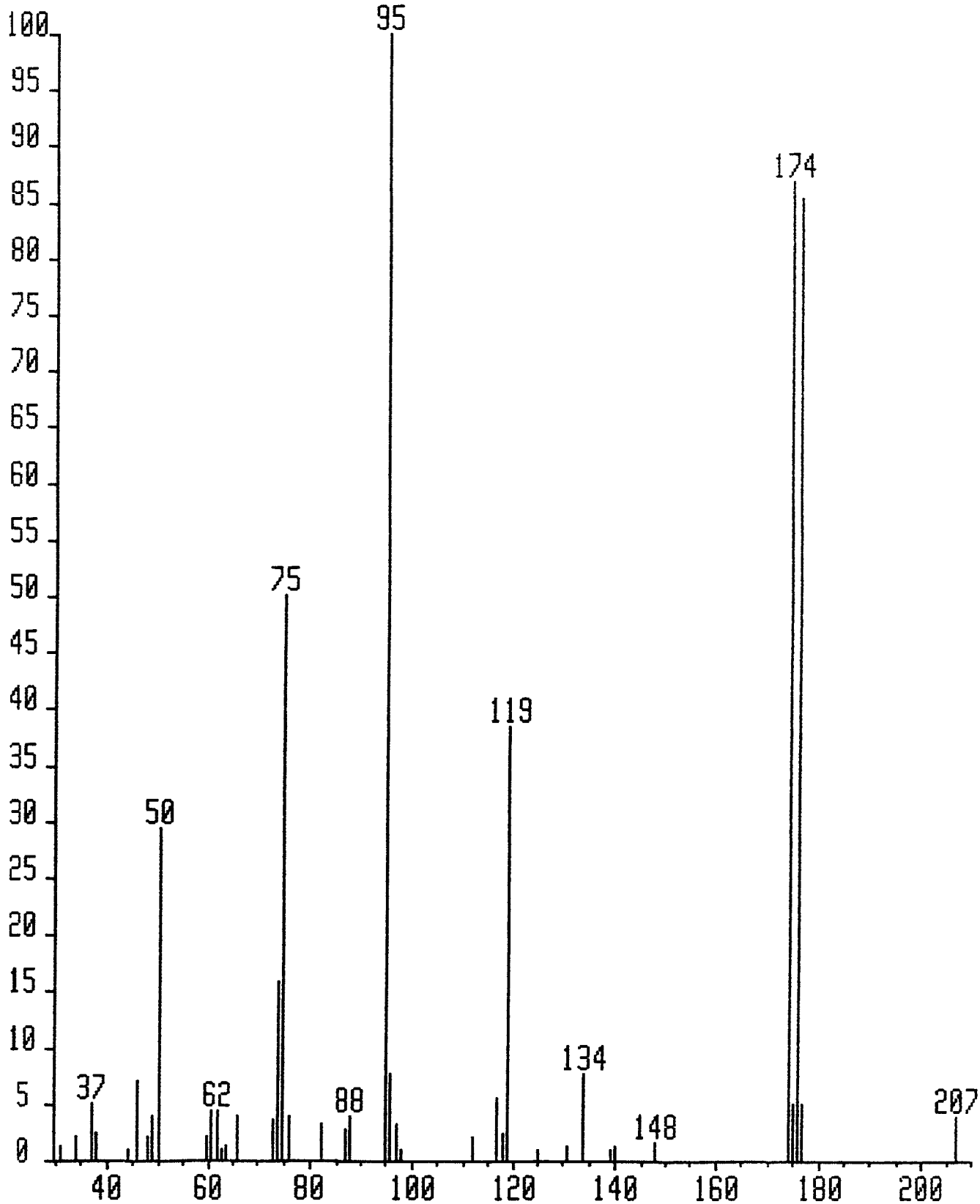
QRE
M. G.
8/24/92

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	99	92	99	2	7600000	bb	228	226	128	Bromochloromethane
2	85	63	98	1	12663000	bb	284	283	65	1,2-Dichloroethane-d4
3	89	70	99	1	~~4706000~~	b?	28	27	50	Chloromethane 13880178
	87	70	99	3	11116000	?v	30			
4	85	64	99	2	~~6681420~~	vv*	61	59	94	Bromomethane 7150178
5	77	49	99	2	~~4032742~~	b?	81	79	62	Vinyl Chloride 9336623
	75	50	99	5	6101807	?b	84			
6	82	60	98	2	~~7700000~~	bb*OK	108	106	64	Chloroethane 7700000
7	97	89	97	2	17445000	bb*	159	157	84	Methylene Chloride
8	91	75	99	2	3876857	vv	174	172	43	Acetone
9	98	92	99	3	35082080	bv	190	187	76	Carbon Disulfide
10	94	82	99	2	12187000	bv	215	213	96	1,1-Dichloroethene
11	89	69	99	1	20560420	bv	244	243	63	1,1-Dichloroethane
12	95	84	99	2	27191000	bv	258	256	96	1,2-Dichloroethene (to
13	96	86	99	2	25557000	bv	272	270	83	Chloroform
14	90	75	96	1	14021000	bb	287	286	62	1,2-Dichloroethane
15	62	18	99	1	4808385	vv*	283	282	43	2-Butanone
	41	0	90	-12	29346	??	270			
	39	8	84	16	13462	??	298			
16	84	61	99	1	37993000	bb	442	441	114	1,4-Difluorobenzene
17	97	85	99	1	22499000	bb	315	314	97	1,1,1-Trichloroethane
18	90	72	98	1	21331000	vb	324	323	117	Carbon Tetrachloride
19	----------		No	Trace	Found	----------		0	1	
20	93	78	99	1	20163000	bv	335	334	83	Bromodichloromethane
21	93	78	98	1	11541000	bb	363	362	63	1,2-Dichloropropane
22	93	78	99	1	21852500	bb	368	367	75	cis-1,3-Dichloropropen
23	94	80	99	1	15348000	bv	378	377	130	Trichloroethene
24	70	32	99	0	14681000	bb	394	394	129	Dibromochloromethane
25	74	42	99	1	11314000	vb	397	396	97	1,1,2-Trichloroethane
26	96	85	96	1	43863000	bv	388	387	78	Benzene
27	67	27	99	1	16070330	vv	395	394	75	trans-1,3-dichloroprop
28	----------		No	Trace	Found	----------		0	1	
29	100	90	99	1	8466000	bb	454	453	173	Bromoform
30	83	59	99	1	30232000	bb	558	557	117	Chlorobenzene-d5
31	85	65	99	2	~~7601600~~	v?	714	712	95	4-Bromofluorobenzene
	84	66	99	4	11091500	?b	716	16831420		
32	87	66	99	1	41217420	bv	524	523	98	Toluene-d8
33	100	89	99	0	10443120	vv	460	460	43	4-Methyl-2-Pentanone
34	99	87	99	0	6502242	vv	493	493	43	2-Hexanone
35	94	79	99	1	11923000	bv	499	498	164	Tetrachloroethene
36	78	48	99	1	13321710	vv	503	502	83	1,1,2,2-Tetrachloroeth
37	92	76	99	1	44546000	bb	529	528	91	Toluene
38	82	59	99	2	33295460	bv	563	561	112	Chlorobenzene
39	91	76	99	2	18592000	bb	627	625	106	Ethylbenzene
40	88	72	99	3	37397210	bv	763	760	104	Styrene
41	86	72	97	4	22053000	bb	773	769	106	m-Xylene
42	92	84	99	5	~~23678750~~	b?	808	803	106	o-/p-Xylene 42905484
	88	83	99	7	21041760	?b	810			
43	----------		No	Trace	Found	----------		0	-	

000049

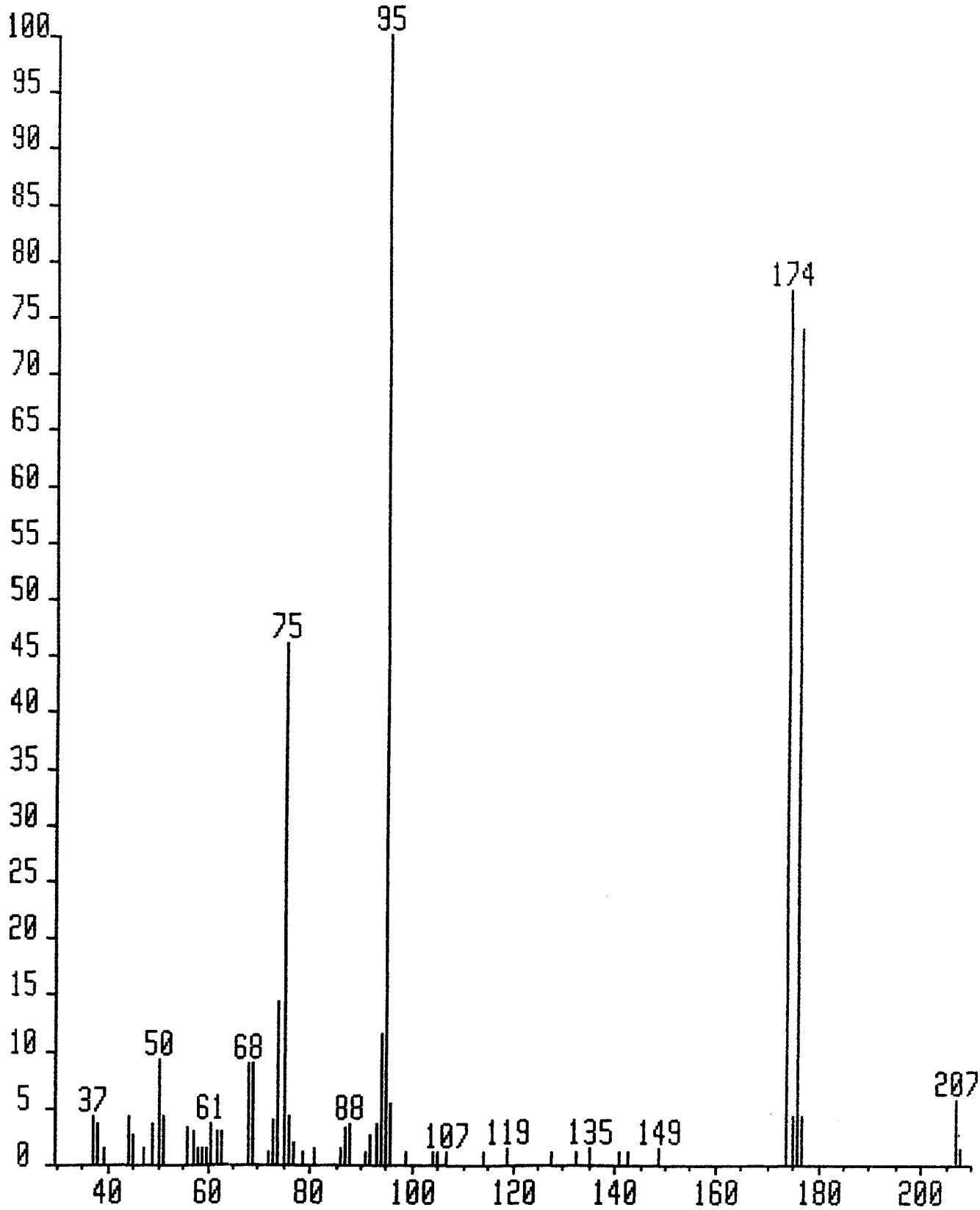
BFBTUNS#1 x1 Bgd=695 24-AUG-92 11:16+0:36:38 EI+
I=39mv TIC=1335000 AV SU Acnt:
Text:07/16/92 _TIME_1616_ FF3071_AVE_(713-715)-



BFBTUNS#1 x1 Bgd=695 24-AUG-92 11:16+0:36:38 VG#2 EI+ 1.1
BpM=95 I=39mv Hm=207 TIC=1335000 AV SU Acnt: Sys: IDVOA
Text: 07/16/92 _TIME_1616 _ FF3071_AVE_(713-715)-SCPT=0 Cal:

Mass	Abs. Ht	% Mass
37	13000	5.0
38	6000	2.3
44	2000	0.8
46	18000	6.9
48	5000	1.9
49	10000	3.8
50	76000	29.2
60	5000	1.9
61	11000	4.2
62	11000	4.2
63	2000	0.8
64	3000	1.2
66	10000	3.8
73	9000	3.5
74	41000	15.8
75	130000	50.0
76	10000	3.8
82	8000	3.1
87	7000	2.7
88	10000	3.8
95	260000	100.0
96	20000	7.7
97	8000	3.1
98	2000	0.8
111	1000	0.4
112	5000	1.9
114	1000	0.4
116	1000	0.4
117	14000	5.4
118	6000	2.3
119	100000	38.5
125	2000	0.8
128	1000	0.4
131	3000	1.2
134	20000	7.7
139	2000	0.8
140	3000	1.2
141	1000	0.4
148	4000	1.5
174	226000	86.9
175	13000	5.0
176	222000	85.4
177	13000	5.0
180	1000	0.4
207	10000	3.8

BFBTUNS#1 x1 Bgd=695 24-AUG-92 16:03+0:36:49 EI+
I=43mv TIC=1313000 AV SU Acnt:
Text:07/24/92 _TIME_1155_ II1011_AVE_(717-719)-



BFBTUNS#1 x1 Bgd=695 24-AUG-92 16:03+0:36:49 VG#2 EI+ 1.1
BpM=95 I=43mv Hm=208 TIC=1313000 AV SU Acnt: Sys:VOA91
Text:07/24/92 _TIME_1155 ± II1011_AVE_(717-719)-SCPT=0 Cal:

Mass	Abs. Ht	% Mass
37	12000	4.2
38	10000	3.5
39	4000	1.4
44	12000	4.2
45	7000	2.4
47	4000	1.4
49	10000	3.5
50	26000	9.1
51	12000	4.2
55	1000	0.3
56	9000	3.1
57	8000	2.8
58	4000	1.4
59	4000	1.4
60	4000	1.4
61	10000	3.5
62	8000	2.8
63	8000	2.8
68	25000	8.7
69	25000	8.7
70	1000	0.3
71	1000	0.3
72	3000	1.0
73	11000	3.8
74	41000	14.3
75	132000	46.0
76	12000	4.2
77	5000	1.7
79	3000	1.0
81	4000	1.4
86	4000	1.4
87	9000	3.1
88	10000	3.5
89	1000	0.3
91	3000	1.0
92	7000	2.4
93	10000	3.5
94	33000	11.5
95	287000	100.0
96	15000	5.2
97	1000	0.3
99	3000	1.0
104	3000	1.0
105	3000	1.0
107	3000	1.0
114	3000	1.0
119	4000	1.4
128	3000	1.0
133	3000	1.0
135	4000	1.4
141	3000	1.0
143	3000	1.0
149	4000	1.4
174	222000	77.4
175	12000	4.2
176	212000	73.9

BFBTUNS#1 x1 Bgd=695 24-AUG-92 16:03+0:36:49 VG#2 EI+ 1.E
BpM=95 I=43mv Hm=208 TIC=1313000 AV SU Acnt: Sys:VOA91
Text:07/24/92 _TIME_1155 _ II1011_AVE_(717-719)-SCPT=0 Cal:

Mass	Abs. Ht	% Mass
177	12000	4.2
207	16000	5.6
208	4000	1.4

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK84

Lab Name: PACIFIC ANALYTICAL Contract: D10098

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: II1041

Level: (low/med) LOW Date Received: NA

% Moisture: not dec. Date Analyzed: 07/24/92

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.

VBLK84

Lab Name: PACIFIC ANALYTICAL Contract: D10098

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: II1041

Level: (low/med) LOW Date Received: NA

% Moisture: not dec. Date Analyzed: 07/24/92

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

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

Number TICs found: 0

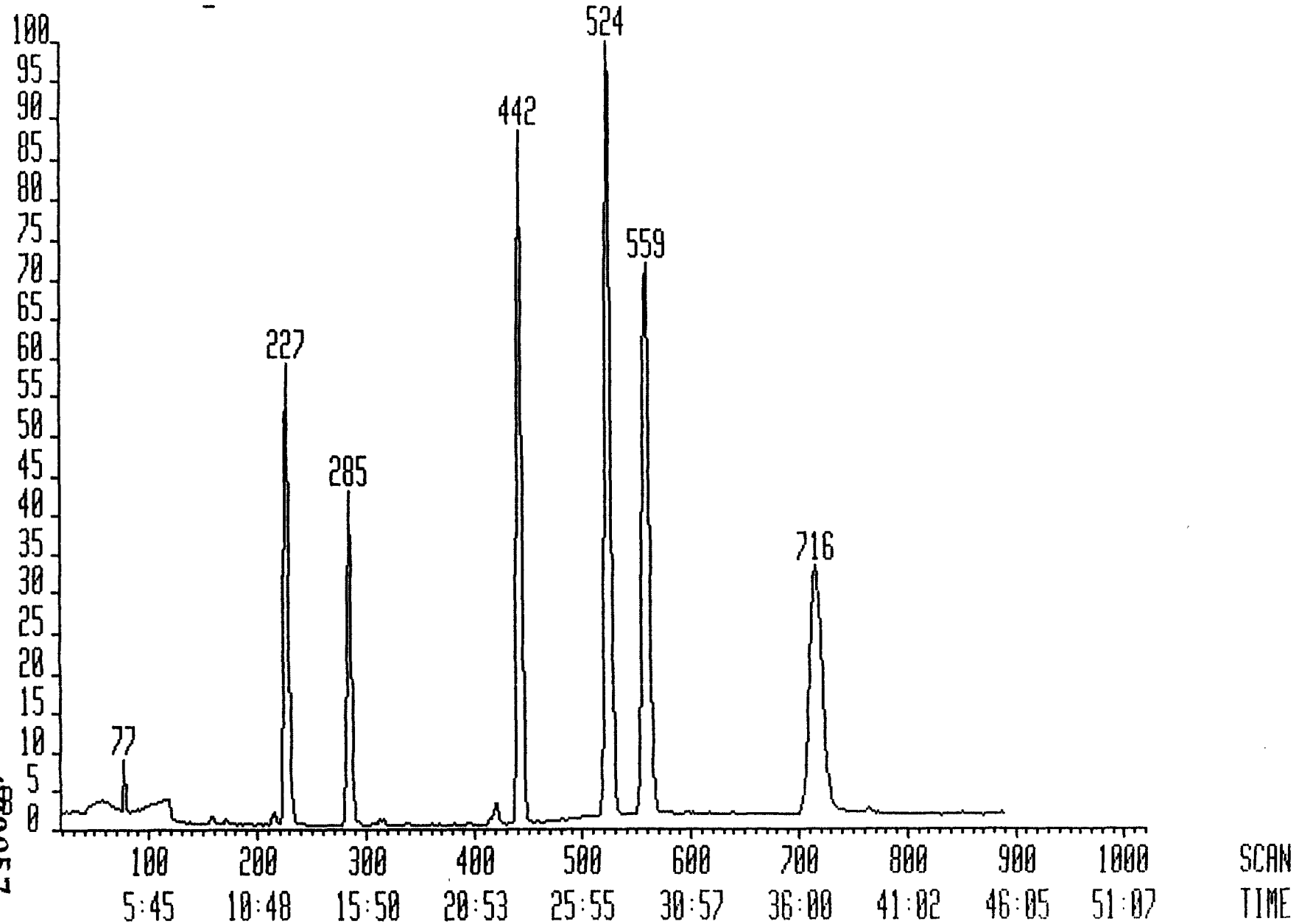
CONCENTRATION UNITS:
(ug/L or ug/Kg)ug/L

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.				

II1041 #20-889 24-JUL-92 15:53 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 21144000

Text:VBLK84_ 00000



000057

Interim Report Sample Analysis 24-AUG-92 13:24:31

Datafile: II1041 24-JUL-92 15:53
Database: VOA91H
Library: VOA91

Instrument: VG#2
Account:
Text: VBLK84_ 00000

QRE
M.J.
8/24/92

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	7917000	bb	227	226	128	Bromochloromethane
2	96	86	98	2	12444000	bv	285	283	65	1,2-Dichloroethane-d4
3	49	1	93	2	4000	bb	29	27	50	Chloromethane
	40	0	74	0	3000	bb	27			
	38	1	89	16	6000	bb	43			
4	40	2	74	2	13000	??	61	59	94	Bromomethane
	36	3	72	7	227	??	66			
	32	2	67	10	2154	??	69			
5	34	0	77	13	3000	bb	92	79	62	Vinyl Chloride
	33	0	77	15	3000	bb	94			
	32	0	77	17	4000	bb	96			
6	32	0	63	4	3000	bb	110	106	64	Chloroethane
	31	0	63	6	3000	bb	112			
	30	0	63	9	3000	bb	115			
7	83	60	98	1	258000	bb	158	157	84	Methylene Chloride
8	78	49	99	-1	372972	vv	171	172	43	Acetone
	56	14	99	6	372972	??	178			
	52	15	99	11	23583	??	183			
9	38	19	54	3	36000	bb	190	187	76	Carbon Disulfide
10	89	72	99	2	322000	bb	215	213	96	1,1-Dichloroethene
11	39	0	91	-16	59000	bb	227	243	63	1,1-Dichloroethane
12	---------- No Trace Found ----------							256	96	1,2-Dichloroethene (to
13	---------- No Trace Found ----------							270	83	Chloroform
14	23	15	28	-1	7000	bb	285	286	62	1,2-Dichloroethane
15	47	7	84	-3	14452	??	279	282	43	2-Butanone
	46	8	84	-5	4097	??	277			
	42	8	84	-12	29258	??	270			
16	86	63	99	1	41227000	bb	442	441	114	1,4-Difluorobenzene
17	31	3	57	2	13000	bb	316	314	97	1,1,1-Trichloroethane
18	37	7	73	-10	4000	bb	313	323	117	Carbon Tetrachloride
	17	0	35	-8	3000	bb	315			
19	---------- No Trace Found ----------							0	1	
20	19	1	43	-15	3000	bb	319	334	83	Bromodichloromethane
21	---------- No Trace Found ----------							362	63	1,2-Dichloropropane
22	---------- No Trace Found ----------							367	75	cis-1,3-Dichloropropen
23	14	1	26	2	4000	bb	379	377	130	Trichloroethene
24	---------- No Trace Found ----------							394	129	Dibromochloromethane
25	---------- No Trace Found ----------							396	97	1,1,2-Trichloroethane
26	29	7	49	2	42000	bb	389	387	78	Benzene
27	---------- No Trace Found ----------							394	75	trans-1,3-dichloroprop
28	---------- No Trace Found ----------							0	1	
29	---------- No Trace Found ----------							453	173	Bromoform
30	92	75	99	1	34660500	bb	558	557	117	Chlorobenzene-d5
31	87	68	99	2	19362000	bb	714	712	95	4-Bromofluorobenzene
	84	67	99	4	19362000	bb	716			
32	84	65	94	1	43904770	bv	524	523	98	Toluene-d8
33	51	18	77	0	0	??	460	460	43	4-Methyl-2-Pentanone
	51	20	77	2	0	??	462			
	50	19	79	-3	6000	??	457			

34	61	28	89	-2	17278	??	491	493	43	2-Hexanone
	60	26	86	0	17278	??	493			
	59	26	89	3	2821	??	496			
35	---------- No Trace Found ----------							498	164	Tetrachloroethene
36	47	4	83	0	9176	??	502	502	83	1,1,2,2-Tetrachloroeth
	42	5	81	6	2364	??	508			
	42	4	79	4	263	??	506			
37	41	2	76	2	92000	bb	530	528	91	Toluene
	19	0	41	-11	3000	bb	517			
	19	0	39	8	3000	bb	536			
38	---------- No Trace Found ----------							561	112	Chlorobenzene
39	---------- No Trace Found ----------							625	106	Ethylbenzene
40	25	1	48	5	5000	bb	765	760	104	Styrene
	21	2	38	0	4000	bb	760			
	17	0	32	2	4000	bb	762			
41	13	1	26	-9	3000	bb	760	769	106	m-Xylene
42	---------- No Trace Found ----------							803	106	o-/p-Xylene
43	---------- No Trace Found ----------							0	-	

II1041

ATT RESULTS II1041 TIC 00000

Internal Standard	Scan	Area	Conc
Bromochloromethane	227	3563	50
1,4-Difluorobenzene	442	5772	50
Chlorobenzene-d5	558	6585	50

TIC Scan	BKG Scan	IS Scan	Area	Conc
~~56~~		~~227~~	~~1277~~	~~18~~