M60050.000062
MCAS EL TORO
SSIC # 5090.3

HADLEY INDUSTRIES

February 18, 1992

Mr. Andy Piszkin
Southwest Division, NAVFACENGCOM
1220 Pacific Highway (Code 0214)
San Diego, California 92132-5190

RE: MCAS EL TORO
Santa Ana, California

Dear Mr. Piszkin:

Enclosed is the Sample Data Package of CLP analytical work and associated Quality Assurance/Quality Control data for the samples collected during the month of January 1992.

Please feel free to call me at 1-800-345-4227 if you have any questions regarding this information.

Sincerely,

HADLEY INDUSTRIES

Donald A. Klemm

Donald A. Klemm
National Operations Manager

dlb

Enclosures

PACIFIC ANALYTICAL 01/22/92

Hadley

Samples: INFLUENT-1, INFLUENT-2, BETWEEN-3, BETWEEN-4, EFFLUENT-5, EFFLUENT-6

Three of the above samples were received broken. Samples INFLUENT-1, BETWEEN-3, and EFFLUENT-5 were analyzed following the CLP Volatiles procedure for waters.

Two data files are reported for sample BETWEEN-3 because the internal standard areas for the first analysis were low with respect to the daily calibration standard. The second analysis verified the results of the first with low internal standard recoveries, but the concentrations of the target compounds were very similar and the surrogate recoveries of both analyses were excellent.

Note that there is a difference in the concentration of trichloroethene reported on the Form I of the INFLUENT-1 matrix spike duplicate and that on the MATRIX SPIKE FORM. This is because the Form I value is reported to only two significant figures. The actual calculated value is 115.

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	VBLK4	98	98	96		0
02	INFLU-1	100	102	97		0
03	INFLU-1MS	102	100	93		0
04	INFLU-1MSD	97	99	97		0
05	BETWEEN-3	106	102	98		0
06	EFFLU-5	106	95	99		0
07	BETWEEN-3	102	103	99		0
08						
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11						
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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

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK4

Lab Name: PACIFIC ANALYTICAL Contract:

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

Lab File ID: TT1021 Lab Sample ID: VBLK4

Date Analyzed: 01/14/92 Time Analyzed: 0937

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-3	06215	TT2041	1422
02	BETWEEN-3	06215	TT2061	1605
03	EFFLU-5	06217	TT2051	1514
04	INFLU-1	06213	TT2011	1134
05	INFLU-1MS	06213	TT2021	1236
06	INFLU-1MSD	06213	TT2031	1330
07				
08				
09				
10				
11				
12				
13				
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30				

COMMENTS:

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: PACIFIC ANALYTICAL Contract: D10098

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

Lab File ID: BFB1011 BFB Injection Date: 12/27/91

Instrument ID: VG#2 BFB Injection Time: 1347

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	19.5
75	30.0 - 66.0% of mass 95	38.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.3 (0.5)1
174	50.0 - 120.0% of mass 95	65.2
175	4.0 - 9.0% of mass 174	4.6 (7.1)1
176	93.0 - 101.0% of mass 174	62.9 (96.5)1
177	5.0 - 9.0% of mass 176	4.4 (7.0)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		PP1011	12/27/91	1436
02	VSTD100		PP1021	12/27/91	1532
03	VSTD050		PP1031	12/27/91	1637
04	VSTD020		PP1041	12/27/91	1729
05	VSTD010		PP1051	12/27/91	1821
06					
07					
08					
09					
10					
11					
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19					
20					
21					
22					

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: BFB4011 BFB Injection Date: 01/14/92

Instrument ID: VG#2 BFB Injection Time: 0751

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	15.8
75	30.0 - 66.0% of mass 95	42.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.1
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	67.4
175	4.0 - 9.0% of mass 174	4.1 (6.0)1
176	93.0 - 101.0% of mass 174	64.1 (95.1)1
177	5.0 - 9.0% of mass 176	3.8 (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	VSTD050	00050	TT1011	01/14/92	0846
02	VBLK4	VBLK4	TT1021	01/14/92	0937
03	INFLU-1	06213	TT2011	01/14/92	1134
04	INFLU-1MS	06213	TT2021	01/14/92	1236
05	INFLU-1MSD	06213	TT2031	01/14/92	1330
06	BETWEEN-3	06215	TT2041	01/14/92	1422
07	EFFLU-5	06217	TT2051	01/14/92	1514
08	BETWEEN-3	06215	TT2061	01/14/92	1605
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

3B

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: PACIFIC ANALYTICAL Contract:

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

Matrix Spike - EPA Sample No.: INFLU-1 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50	0	44	89	61-145
Trichloroethene	50	69	120	102	71-120
Benzene	50	0	49	98	76-127
Toluene	50	0	52	104	76-125
Chlorobenzene	50	0	52	104	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50	43	86	3	14	61-145
Trichloroethene	50	115	93	4	14	71-120
Benzene	50	50	100	1	11	76-127
Toluene	50	49	98	6	13	76-125
Chlorobenzene	50	49	98	6	13	75-130

#Column to be used to flag recovery and RPD values with an asterisk

*Values outside of limits

RPD: 0 out of 5 outside of limits
Spike Recovery: 0 out of 10 outside of limits

Comments: _____

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): TT1011 Date Analyzed: 01/14/92

Instrument ID: VG#2 Time Analyzed: 0846

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	13775000	11.27	80160001	22.15	70412122	27.60
	UPPER LIMIT	27550000	11.77	160320003	22.65	140824243	28.10
	LOWER LIMIT	6887500	10.77	40080001	21.65	35206061	27.10
	EPA SAMPLE NO.						
01	VBLK4	13089000	11.30	77711002	22.20	67925474	27.63
02	INFLU-1	13475000	11.28	72515001	22.17	60265205	27.67
03	INFLU-1MS	12714000	11.27	70320001	22.15	54774345	27.60
04	INFLU-1MSD	12602000	11.28	68148002	22.17	61696797	27.62
05	BETWEEN-3	6132000*	11.23	30580000*	22.13	22952630*	27.62
06	EFFLU-5	11881000	11.25	62763001	22.18	44444989	27.68
07	BETWEEN-3	6745000*	0.00	40145001	0.00	32839864*	27.62
08							
09							
10							
11							
12							
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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.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BETWEEN-3

Lab Name: PACIFIC ANALYTICAL Contract:

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

Matrix: (soil/water) WATER Lab Sample ID: 06215

Sample wt/vol: 5.0(g/mL) ML Lab File ID: TT2041

Level: (low/med) LOW Date Received: 01/09/92

% Moisture: not dec. 0 Date Analyzed: 01/14/92

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	74	
67-64-1	Acetone	16	
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-3

Lab Name: PACIFIC ANALYTICAL Contract:

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

Matrix: (soil/water) WATER Lab Sample ID: 06215

Sample wt/vol: 5.0(g/mL) ML Lab File ID: TT2041

Level: (low/med) LOW Date Received: 01/09/92

% Moisture: not dec. 0 Date Analyzed: 01/14/92

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.					
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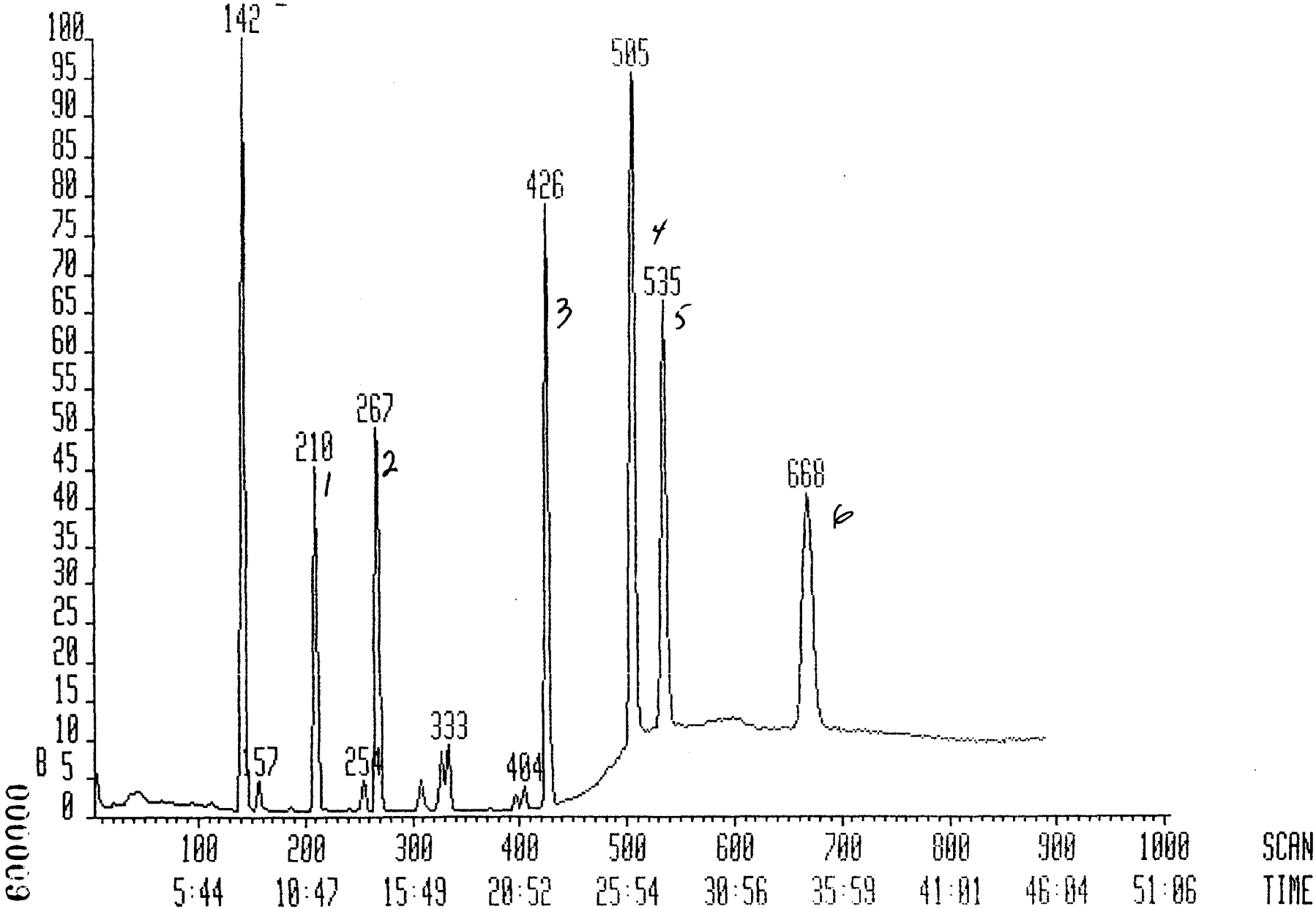
27.					
28.					
29.					
30.					

TT2041 #5-889 14-JAN-92 14:22 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 23412000

Text:BETWEEN-3 06215



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Interim Report Sample Analysis 14-JAN-92 15:19:13

Datafile: TT2041 14-JAN-92 14:22
Database: VOA91K
Library: VOA91

Instrument: VG#2
Account:
Text: BETWEEN-3_ 06215

QRE 1/15/92 KD

No.	Rank	Spectrum Match	Fit	Scan Diff	Peak Area	Flgs	Scan Found	Pred	Quan m/z	Compound Name
1	100	93	99	0	6132000	bb	210	210	128	Bromochloromethane
2	100	89	99	0	16613000	bb	267	267	65	1,2-Dichloroethane-d4
3	40	0	74	0	6000	bb	26	26	50	Chloromethane
4	20	0	40	6	1000	bb	59	53	94	Bromomethane
5	---------- No Trace Found ----------							73	62	Vinyl Chloride
6	---------- No Trace Found ----------							96	64	Chloroethane
7	99	89	98	-1	20878000	bb	142	143	84	Methylene Chloride
8	89	76	99	-4	2558244	bv	157	161	43	Acetone
9	27	13	38	1	14000	bb	175	174	76	Carbon Disulfide
10	---------- No Trace Found ----------							201	96	1,1-Dichloroethene
11	63	25	95	-1	99000	bb	227	228	63	1,1-Dichloroethane
	36	0	87	-18	22000	bb	210			
12	76	46	97	0	65000	bb	242	242	96	1,2-Dichloroethene (to
13	94	81	97	-1	1517000	bb	254	255	83	Chloroform
14	28	19	33	0	114000	bb	270	270	62	1,2-Dichloroethane
15	45	1	84	1	80000	vv	271	270	43	2-Butanone
	43	1	98	-15	47000	vv	255			
	41	2	84	8	9000	?b	278			
16	84	59	98	0	30580000	bb	426	426	114	1,4-Difluorobenzene
17	53	20	79	0	69000	bb	298	298	97	1,1,1-Trichloroethane
18	---------- No Trace Found ----------							306	117	Carbon Tetrachloride
19	---------- No Trace Found ----------							288	1	
20	---------- No Trace Found ----------							317	83	Bromodichloromethane
21	43	44	53	-13	4881000	bb	333	346	63	1,2-Dichloropropane
22	19	0	36	1	2000	bb	352	351	75	cis-1,3-Dichloropropen
23	61	16	98	0	11000	bb	362	362	130	Trichloroethene
24	---------- No Trace Found ----------							376	129	Dibromochloromethane
25	10	0	23	-17	9000	bb	361	378	97	1,1,2-Trichloroethane
26	52	23	75	0	130000	bb	373	373	78	Benzene
27	27	2	51	4	13000	bb	382	378	75	trans-1,3-dichloroprop
28	---------- No Trace Found ----------							372	1	
29	17	0	37	9	1000	bb	442	433	173	Bromoform
30	87	64	99	0	22952630	bv	534	534	117	Chlorobenzene-d5
31	79	51	99	-1	17170060	vv	668	669	95	4-Bromofluorobenzene
32	82	59	96	-1	34221290	vv	505	506	98	Toluene-d8
33	58	30	82	3	41000	??	446	443	43	4-Methyl-2-Pentanone
	56	29	81	-4	15931	??	439			
	56	29	82	5	3368	??	448			
34	59	33	77	0	10833	??	476	476	43	2-Hexanone
	55	33	77	-5	39935	??	471			
	55	32	76	4	12750	??	480			
35	32	2	58	-1	1000	bb	481	482	164	Tetrachloroethene
	26	2	47	1	1000	bb	483			
	14	0	28	5	1000	bb	487			
36	46	3	87	3	6538	??	485	482	83	1,1,2,2-Tetrachloroeth
	45	3	83	1	3667	??	483			
	43	2	80	-2	3273	??	480			
37	60	15	97	0	1247000	vv	510	510	91	Toluene
	34	3	66	7	22250	??	517			

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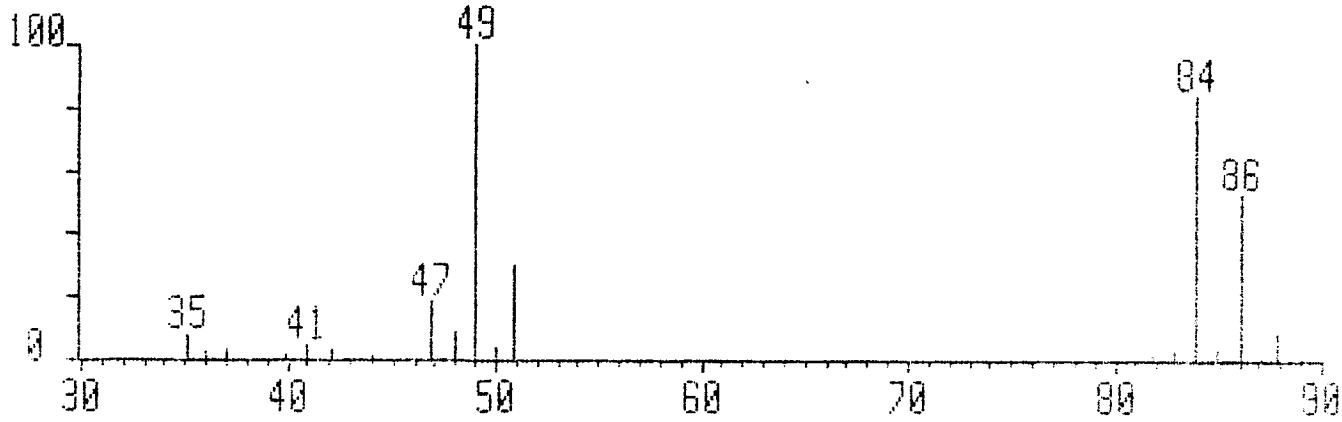
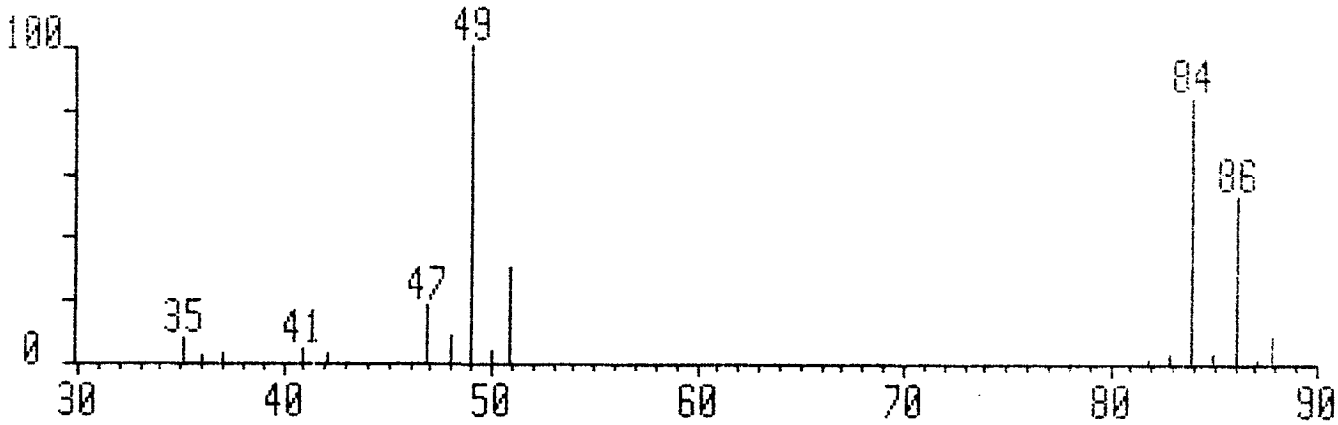
TT2041

	32	3	65	9	32250	??	519			
38	34	1	63	-1	53000	bv	538	539	112	Chlorobenzene
	32	1	65	7	3000	??	546			
	32	1	66	9	4000	??	548			
39	41	5	72	-1	13000	b?	593	594	106	Ethylbenzene
	40	5	72	2	10000	?b	596			
	34	4	66	-7	3000	??	587			
40	25	2	45	1	8000	vv	712	711	104	Styrene
	23	2	41	-1	5000	bv	710			
	22	2	43	6	7000	vb	717			
41	42	5	73	0	25227	?b	721	721	106	m-Xylene
	40	5	72	-2	9182	??	719			
	38	5	71	-5	6682	b?	716			
42	40	5	72	-2	31000	vv	750	752	106	o-/p-Xylene
	39	5	72	-4	31000	vv	748			
	36	4	69	-6	5000	??	746			
43	---------- No Trace Found ----------							0	-	

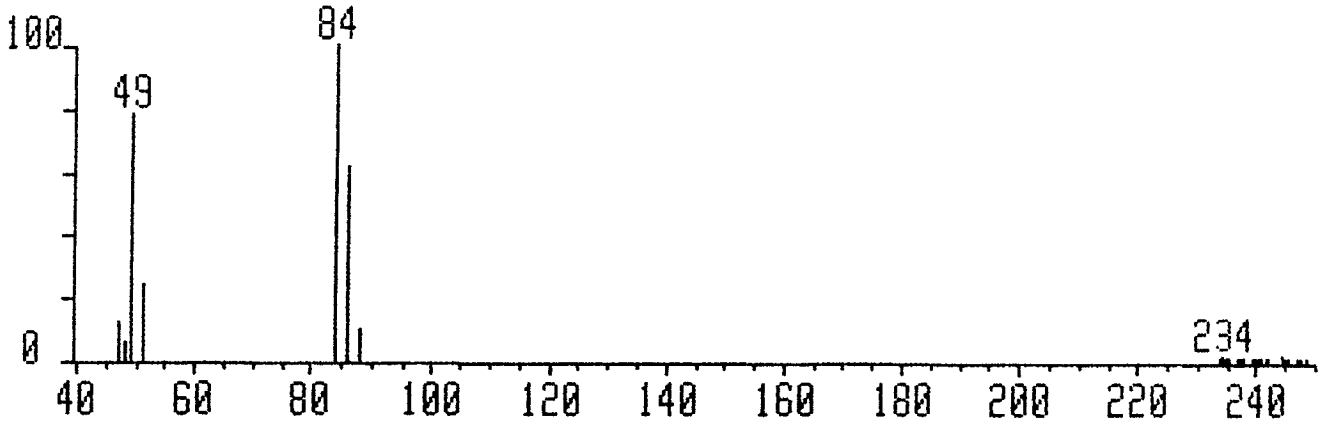
TT2041#142 x1 Bgd=135 14-JAN-92 14:22+0:07:51 EI+
I=1.1v TIC=23412000 Acnt:
Text:BETWEEN-3_06215_Methylene Chloride



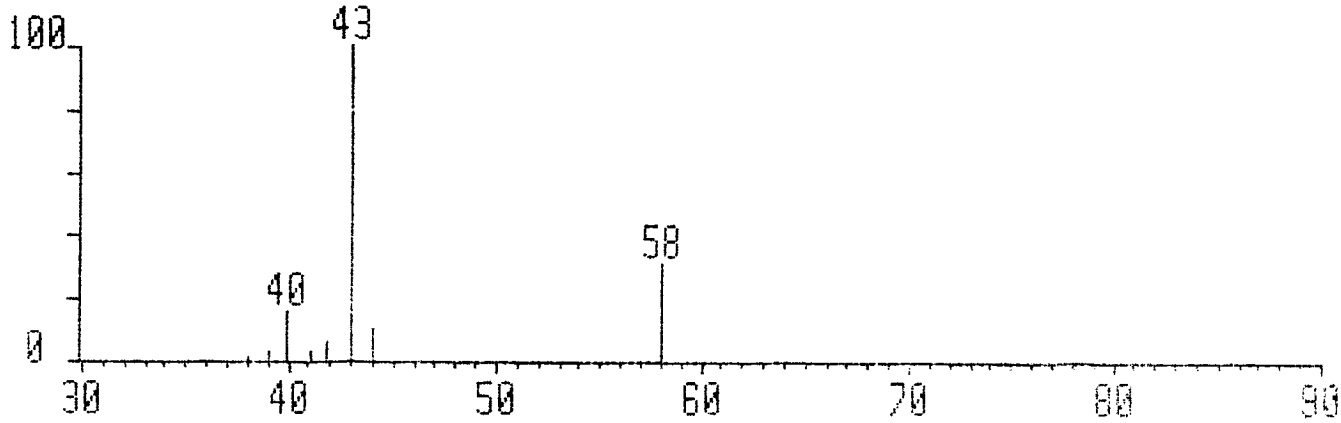
TT2041S#142 x1 Bgd=136 14-JAN-92 14:22+0:07:51 EI+
I=1.1v TIC=23265000 SU Acnt:
Text:BETWEEN-3_06215_Methylene Chloride



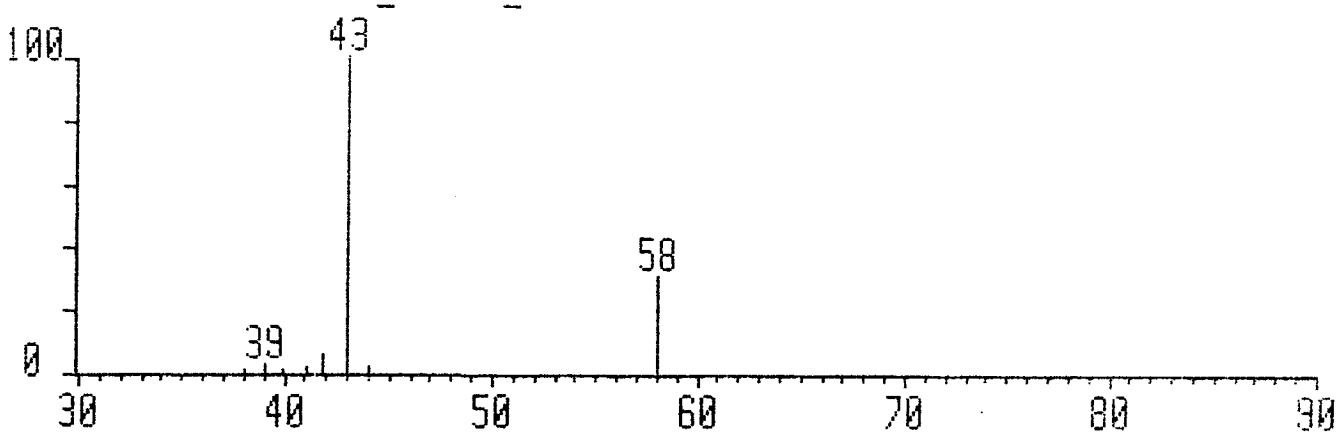
V8240#7 x1 Bgd=1 1-DEC-89 13:03+0:00:23 EI+
I=234mv TIC=10910000 Acnt:VG#2
Text:Methylene Chloride



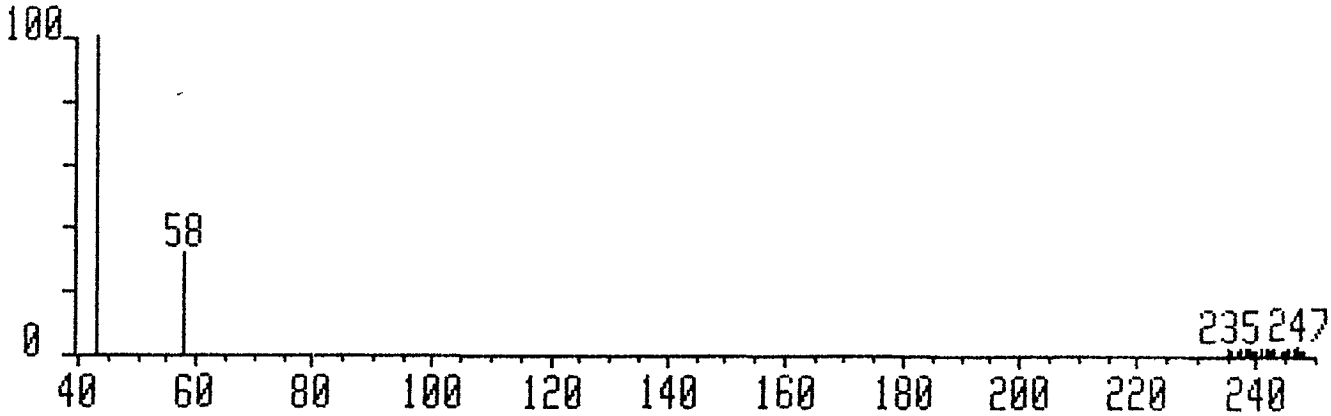
TT2041#157 x1 Bgd=135 14-JAN-92 14:22+0:08:36 EI+
I=94mv TIC=1048000 Acnt:
Text:BETWEEN-3_06215_Acetone



TT2041S#157 x1 Bgd=151 14-JAN-92 14:22+0:08:36 EI+
I=93mv TIC=892000 SU Acnt:
Text:BETWEEN-3_06215_Acetone



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



Report File: TIC
Data File: TT2041

TIC Scan	TIC Bkg	TIC Area	TIC Amount	Nearest IS
~~42~~ NOISE		322	6	210

1/15/92
NO QUA.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BETWEEN-3

Lab Name: PACIFIC ANALYTICAL Contract:

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

Matrix: (soil/water) WATER Lab Sample ID: 06215

Sample wt/vol: 5.0(g/mL) ML Lab File ID: TT2061

Level: (low/med) LOW Date Received: 01/09/92

% Moisture: not dec. 0 Date Analyzed: 01/14/92

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	60	
67-64-1	Acetone	15	
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-3

Lab Name: PACIFIC ANALYTICAL Contract:

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

Matrix: (soil/water) WATER Lab Sample ID: 06215

Sample wt/vol: 5.0(g/mL) ML Lab File ID: TT2061

Level: (low/med) LOW Date Received: 01/09/92

% Moisture: not dec. 0 Date Analyzed: 01/14/92

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.					
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6.					
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9.					
10.					
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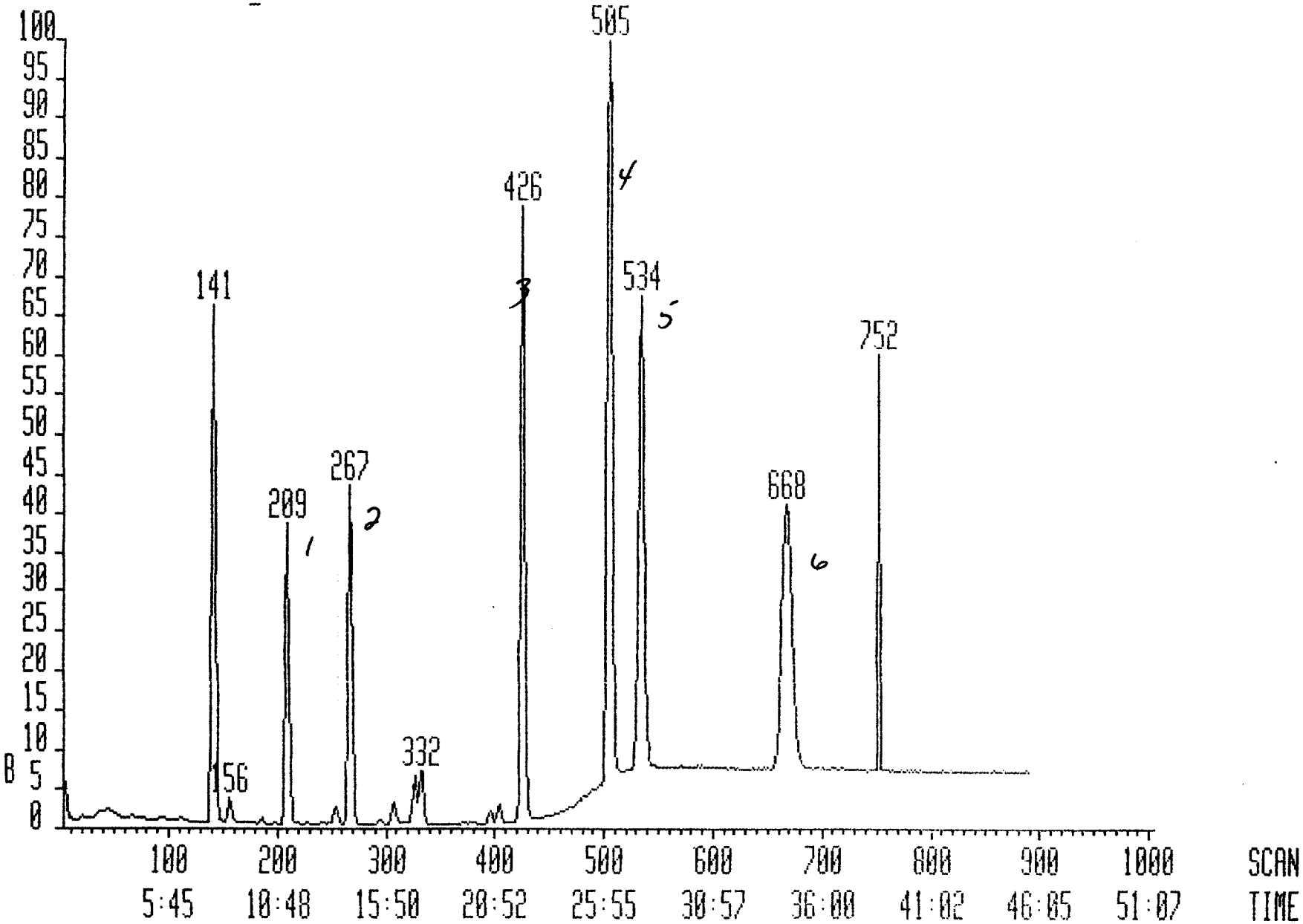
26.					
27.					
28.					
29.					
30.					

TT2061 #5-889 14-JAN-92 16:05 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 30413000

Text:BETWEEN-3_ 06215



000017

Interim Report Sample Analysis 15-JAN-92 04:22:11

Datafile: TT2061 14-JAN-92 16:05
Database: VOA91K
Library: VOA91

Instrument: VG#2
Account:
Text: BETWEEN-3_ 06215

QRE KD 1/5/92

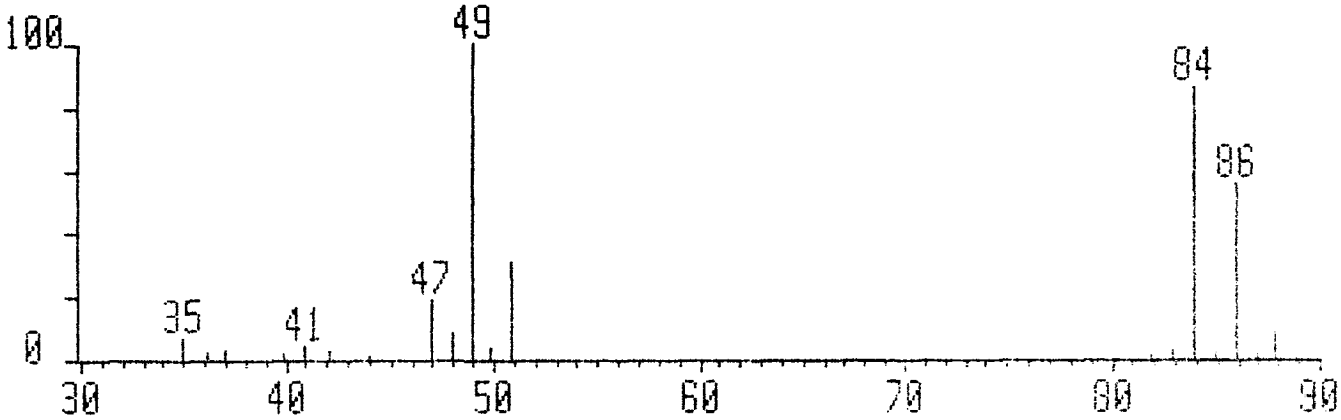
No.	Rank	Spectrum Match	Fit	Scan Diff	Peak Area	Flgs	Scan Found	Pred	Quan m/z	Compound Name
1	100	93	99	-1	6745000	bb	209	210	128	Bromochloromethane
2	99	88	99	1	18569000	bv	267	266	65	1,2-Dichloroethane-d4
3	39	0	74	-1	4000	bb	25	26	50	Chloromethane
4	----------	No	Trace	Found	----------			53	94	Bromomethane
5	----------	No	Trace	Found	----------			73	62	Vinyl Chloride
6	----------	No	Trace	Found	----------			96	64	Chloroethane
7	99	89	98	-1	18663000	bb	141	142	84	Methylene Chloride
8	90	78	99	-4	2623091	bv*	156	160	43	Acetone
9	37	18	52	1	30000	bb	174	173	76	Carbon Disulfide
10	----------	No	Trace	Found	----------			200	96	1,1-Dichloroethene
11	58	19	89	0	79000	bb	227	227	63	1,1-Dichloroethane
	38	0	90	-17	34000	bb	210			
	32	5	68	14	43000	bb	241			
12	76	47	96	0	65000	bb	241	241	96	1,2-Dichloroethene (to
13	94	78	97	0	1083000	bb	254	254	83	Chloroform
14	27	18	32	0	118000	bb	269	269	62	1,2-Dichloroethane
15	52	0	98	1	77438	bv	270	269	43	2-Butanone
	41	2	84	-8	3270	??	261			
	37	1	84	-14	31120	vv	255			
16	84	60	99	1	40145000	bv	425	424	114	1,4-Difluorobenzene
17	49	16	77	-1	50000	bb	297	298	97	1,1,1-Trichloroethane
18	----------	No	Trace	Found	----------			305	117	Carbon Tetrachloride
19	----------	No	Trace	Found	----------			288	1	
20	----------	No	Trace	Found	----------			316	83	Bromodichloromethane
21	42	43	51	-12	5143000	bb	333	345	63	1,2-Dichloropropane
22	28	1	53	2	2000	bb	352	350	75	cis-1,3-Dichloropropen
	19	0	45	-16	0	?v	334			
	19	0	36	-1	1000	bb	349			
23	50	4	89	0	1000	bb	361	361	130	Trichloroethene
24	----------	No	Trace	Found	----------			375	129	Dibromochloromethane
25	10	0	23	-16	2000	bb	361	377	97	1,1,2-Trichloroethane
26	50	18	75	0	89000	bb	372	372	78	Benzene
27	25	4	46	4	46000	bb	381	377	75	trans-1,3-dichloroprop
28	----------	No	Trace	Found	----------			372	1	
29	----------	No	Trace	Found	----------			432	173	Bromoform
30	88	68	98	1	32839860	vv	534	533	117	Chlorobenzene-d5
31	82	57	99	-1	24774810	vv	668	669	95	4-Bromofluorobenzene
32	81	59	95	-1	47361690	vv	505	506	98	Toluene-d8
33	58	28	81	1	7588	??	444	443	43	4-Methyl-2-Pentanone
	55	29	83	6	6541	??	449			
	54	24	82	-3	6429	??	440			
34	59	31	79	0	12500	??	476	476	43	2-Hexanone
	57	31	78	-2	0	??	474			
	53	31	77	7	10093	??	483			
35	----------	No	Trace	Found	----------			482	164	Tetrachloroethene
36	47	3	85	0	18946	v?	482	482	83	1,1,2,2-Tetrachloroeth
	45	3	85	-3	7324	??	479			
	45	3	84	3	0	??	485			
37	60	16	97	0	1085220	vv	510	510	91	Toluene

000018

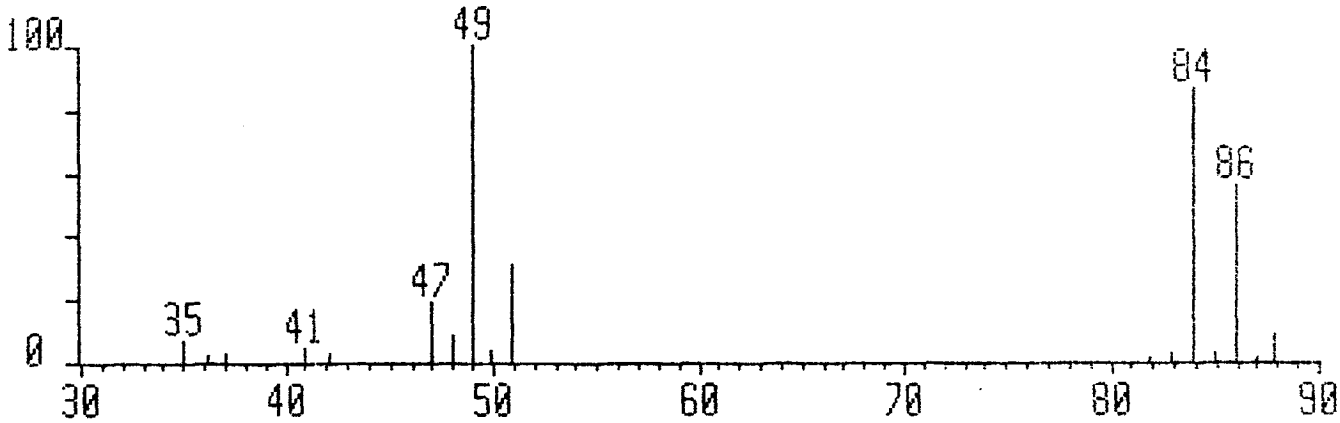
TT2061

38	29	0	63	10	1000	??	549	539	112	Chlorobenzene
	29	0	65	13	3000	??	552			
	28	0	69	-15	1000	??	524			
39	29	2	58	-7	2136	b?	587	594	106	Ethylbenzene
	28	2	55	6	0	??	600			
	28	2	56	8	4500	bb	602			
40	25	2	45	0	23000	bb	711	711	104	Styrene
	23	2	43	-2	23000	bb	709			
	22	2	42	-4	2000	b?	707			
41	39	4	68	0	19610	?b	721	721	106	m-Xylene
	38	5	69	-3	11220	??	718			
	37	4	69	-5	7098	v?	716			
42	40	4	72	-2	31000	vv	750	752	106	o-/p-Xylene
	34	4	66	7	8000	?b	759			
	33	4	65	-8	6000	b?	744			
43	---------- No Trace Found ----------							0	-	

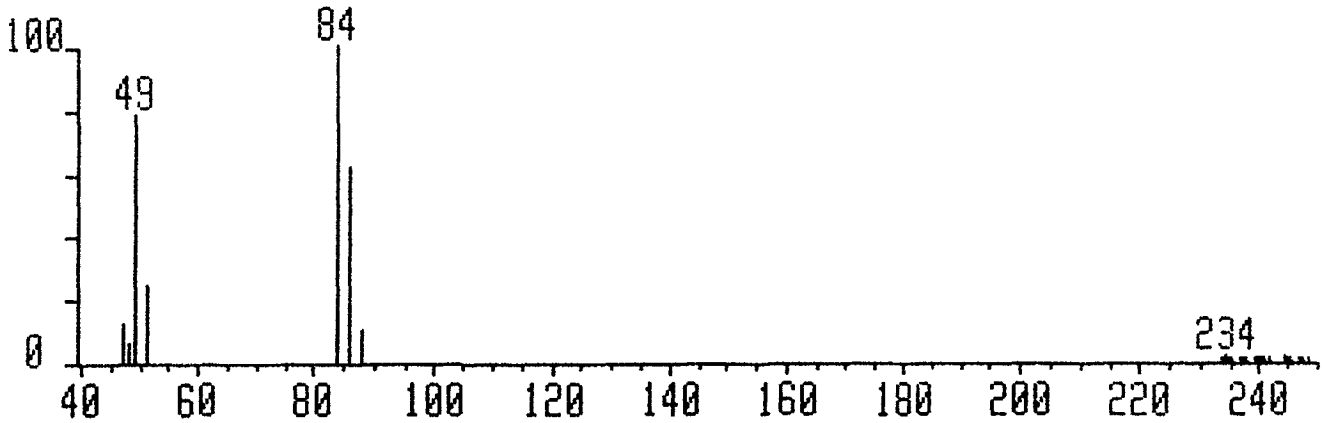
TT2061#141 x1 Bgd=136 14-JAN-92 16:05+0:07:49 EI+
I=905mv TIC=20100000 Acnt:
Text:BETWEEN-3_06215_Methylene Chloride



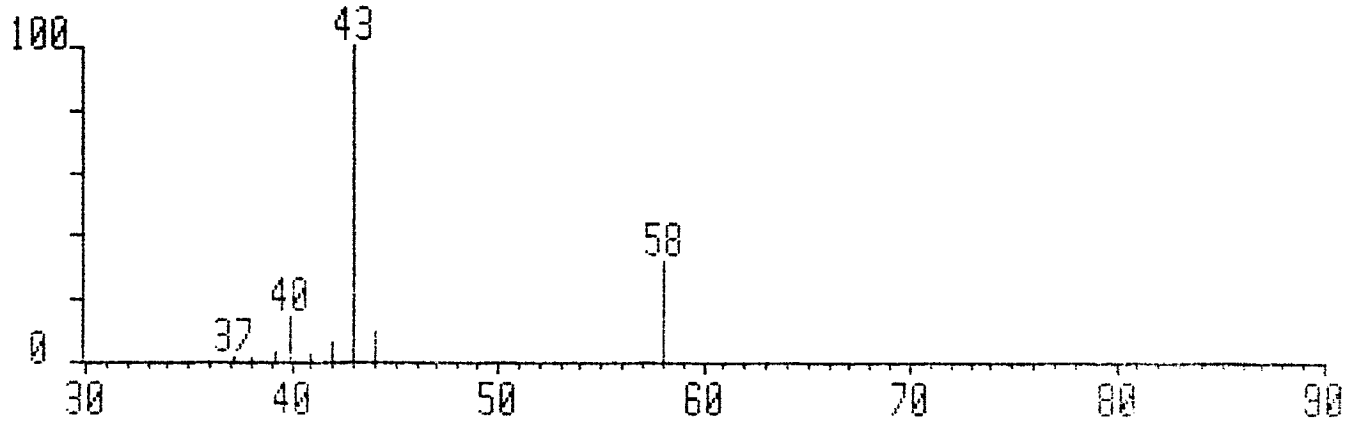
TT2061S#141 x1 Bgd=136 14-JAN-92 16:05+0:07:49 EI+
I=905mv TIC=19946000 SU Acnt:
Text:BETWEEN-3_06215_Methylene Chloride



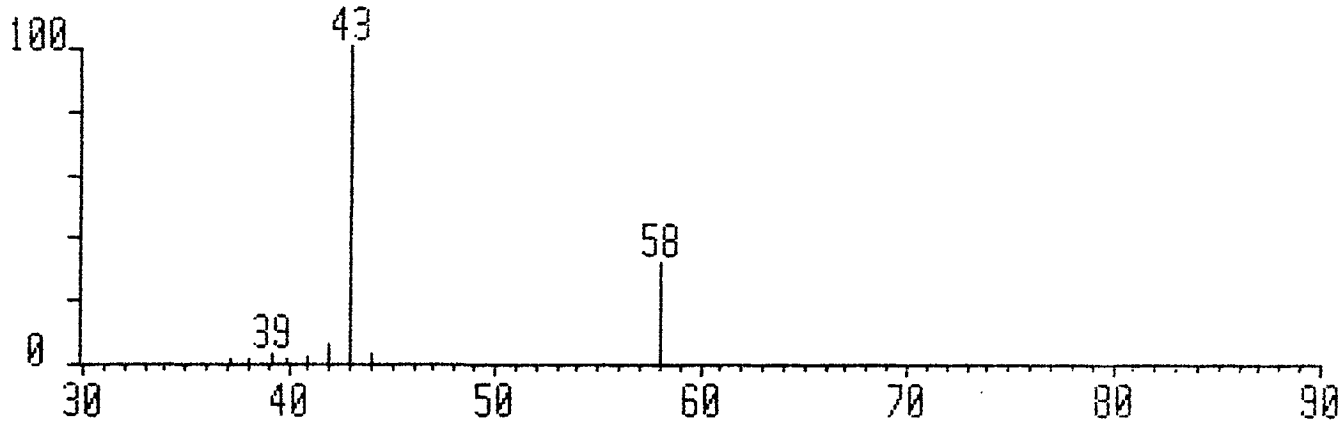
V8240#7 x1 Bgd=1 1-DEC-89 13:03+0:00:23 EI+
I=234mv TIC=10910000 Acnt:VG#2
Text:Methylene Chloride



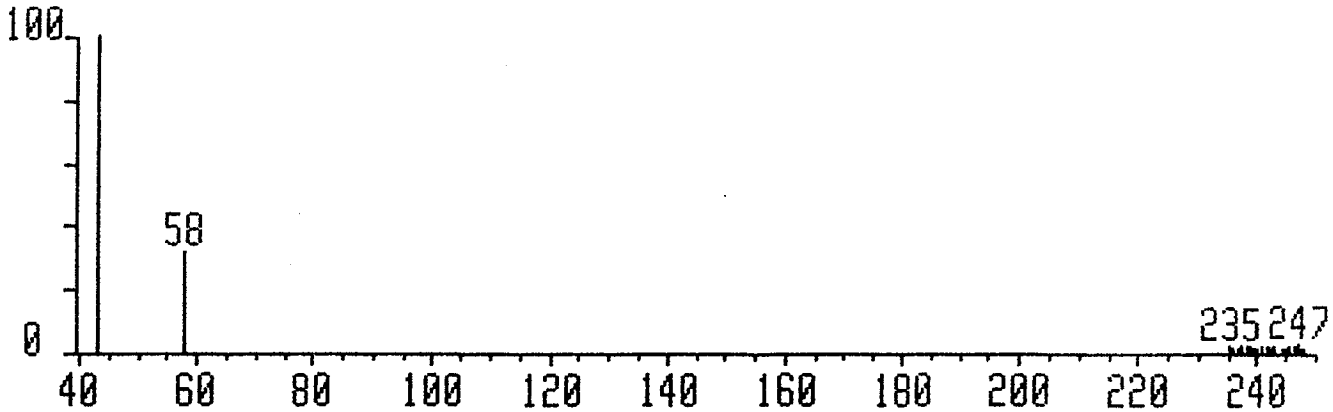
TT2061#156 x1 Bgd=136 14-JAN-92 16:05+0:08:34 EI+
I=102mv TIC=1118000 Acnt:
Text:BETWEEN-3_06215_Acetone



TT2061S#156 x1 Bgd=150 14-JAN-92 16:05+0:08:34 EI+
I=101mv TIC=973000 SU Acnt:
Text:BETWEEN-3_06215_Acetone



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



Report File: TIC
Data File: TT2061

TIC Scan	TIC Bkg	TIC Area	TIC Amount	Nearest IS
~~489~~		1713	14	534
~~45~~		324	5	209

NOISE

1/15/92 QUA.
KD.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EFFLU-5

Lab Name: PACIFIC ANALYTICAL Contract:

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

Matrix: (soil/water) WATER Lab Sample ID: 06217

Sample wt/vol: 5.0(g/mL) ML Lab File ID: TT2051

Level: (low/med) LOW Date Received: 01/09/92

% Moisture: not dec. 0 Date Analyzed: 01/14/92

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	7	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.

EFFLU-5

Lab Name: PACIFIC ANALYTICAL Contract:

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

Matrix: (soil/water) WATER Lab Sample ID: 06217

Sample wt/vol: 5.0(g/mL) ML Lab File ID: TT2051

Level: (low/med) LOW Date Received: 01/09/92

% Moisture: not dec. 0 Date Analyzed: 01/14/92

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.				
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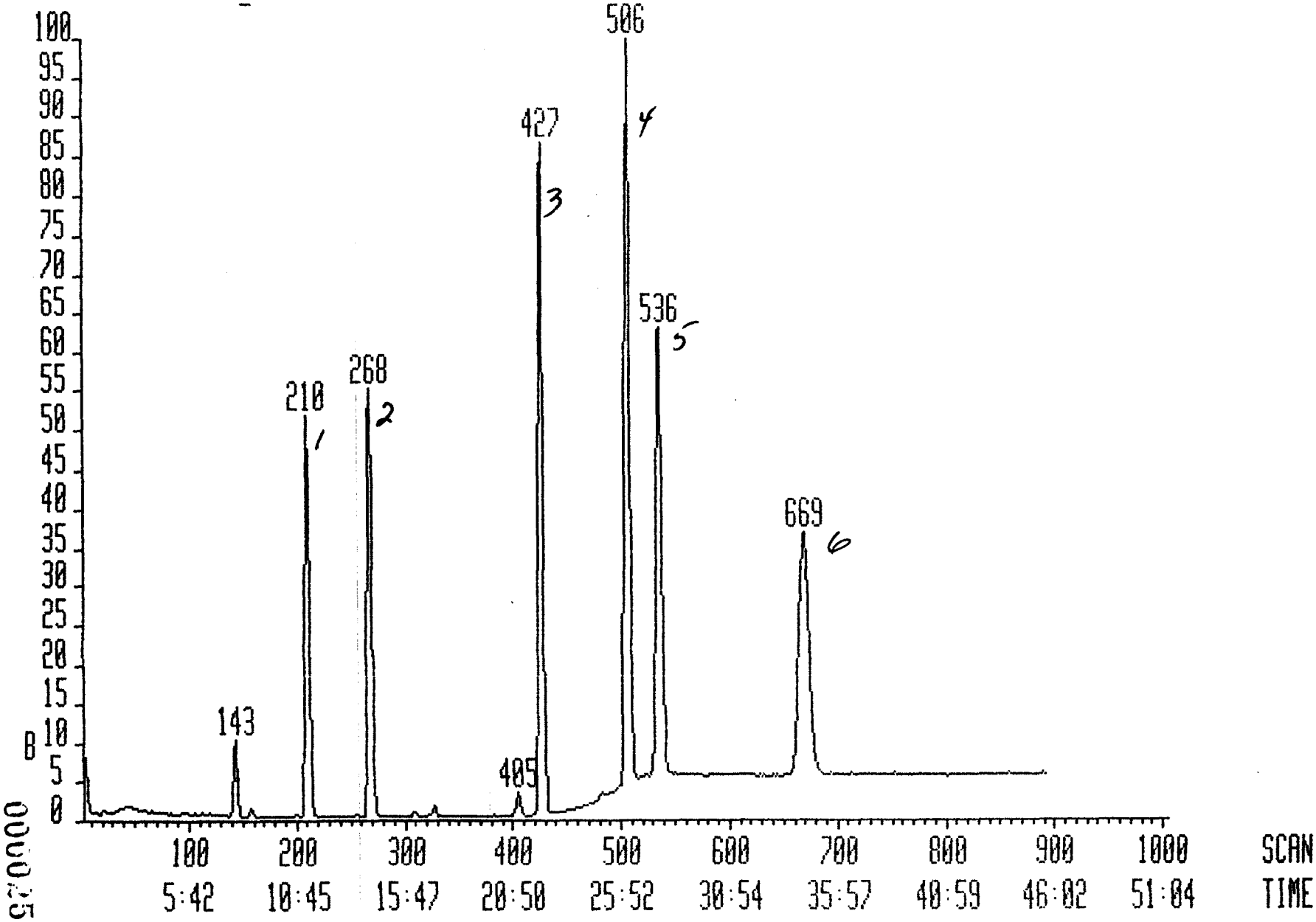
30.				

TT2051 #5-890 14-JAN-92 15:14 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 42517000

Text:EFFLU-5_ 06217



000025

Interim Report Sample Analysis 15-JAN-92 04:27:21

Datafile: TT2051 14-JAN-92 15:14
Database: VOA91K
Library: VOA91

Instrument: VG#2
Account:
Text: EFFLU-5_ 06217

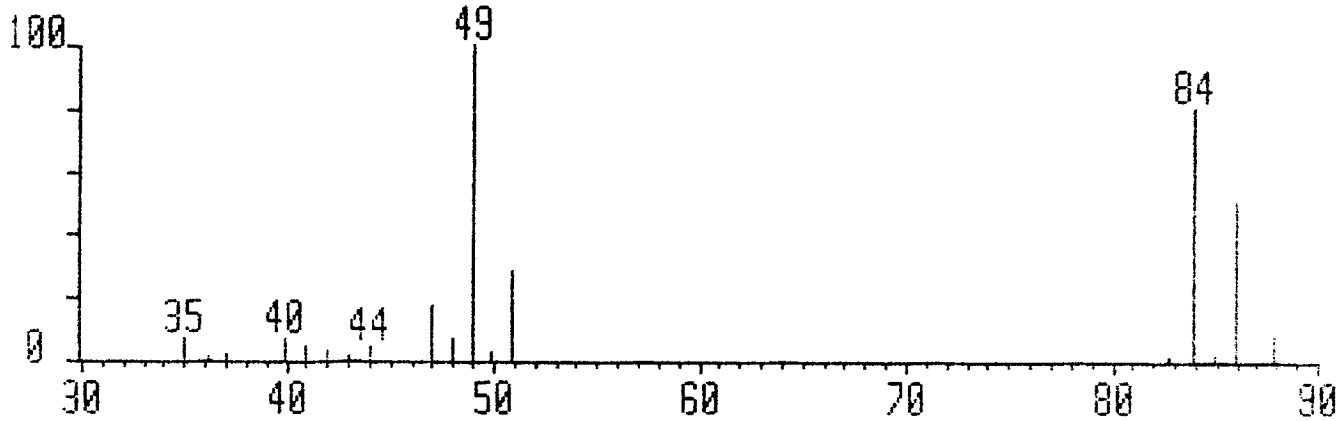
QRE 1/15/92 KD

No.	Rank	Spectrum Match	Spectrum Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	100	93	99	0	11881000	bv	210	210	128	Bromochloromethane
2	99	88	99	1	32758000	bv	268	267	65	1,2-Dichloroethane-d4
3	50	0	93	0	2000	bb	26	26	50	Chloromethane
4	21	0	40	2	1000	bb	55	53	94	Bromomethane
	20	0	40	4	1000	bb	57			
5	---------- No Trace Found ----------							73	62	Vinyl Chloride
6	---------- No Trace Found ----------							96	64	Chloroethane
7	99	88	98	0	3810000	bb	143	143	84	Methylene Chloride
8	86	68	99	-3	1191000	bv*	158	161	43	Acetone
9	49	28	64	1	76000	bb	175	174	76	Carbon Disulfide
10	51	6	89	0	4000	bb	201	201	96	1,1-Dichloroethene
11	41	4	90	14	16000	bb	242	228	63	1,1-Dichloroethane
	36	1	68	-1	5000	bb	227			
	36	0	88	-18	83000	bb	210			
12	30	0	62	-7	1000	bb	235	242	96	1,2-Dichloroethene (to
	14	0	29	8	1000	bb	250			
	14	0	29	-9	1000	bb	233			
13	63	28	89	0	120000	bb	255	255	83	Chloroform
14	21	14	26	-1	8000	bb	269	270	62	1,2-Dichloroethane
15	52	0	97	0	129246	vv	270	270	43	2-Butanone
	49	6	98	-9	21180	vv	261			
	44	1	84	2	129246	vv	272			
16	83	60	98	1	62763000	bb	427	426	114	1,4-Difluorobenzene
17	44	6	78	-1	12000	bb	298	299	97	1,1,1-Trichloroethane
18	---------- No Trace Found ----------							307	117	Carbon Tetrachloride
19	---------- No Trace Found ----------							288	1	
20	---------- No Trace Found ----------							318	83	Bromodichloromethane
21	18	6	35	-14	60000	bb	333	347	63	1,2-Dichloropropane
22	---------- No Trace Found ----------							352	75	cis-1,3-Dichloropropen
23	12	0	26	13	1000	bb	376	363	130	Trichloroethene
24	---------- No Trace Found ----------							377	129	Dibromochloromethane
25	16	1	37	-17	8000	bb	362	379	97	1,1,2-Trichloroethane
26	51	19	78	-1	93000	bb	373	374	78	Benzene
27	28	5	49	3	44000	bb	382	379	75	trans-1,3-dichloroprop
28	---------- No Trace Found ----------							372	1	
29	---------- No Trace Found ----------							434	173	Bromoform
30	88	69	98	1	44444990	vv*	536	535	117	Chlorobenzene-d5
31	81	59	99	-3	30901170	vv	669	672	95	4-Bromofluorobenzene
32	81	61	95	-2	66638000	vv	506	508	98	Toluene-d8
33	57	29	81	2	3135	??	447	445	43	4-Methyl-2-Pentanone
	55	28	81	5	5462	??	450			
	53	25	82	-6	12000	??	439			
34	59	32	78	0	0	??	478	478	43	2-Hexanone
	54	31	76	4	76000	??	482			
	54	32	77	6	76000	??	484			
35	---------- No Trace Found ----------							484	164	Tetrachloroethene
36	47	3	84	0	3103	??	484	484	83	1,1,2,2-Tetrac[illegible]
	45	3	84	2	4875	??	486			
	44	3	85	5	412	??	489			

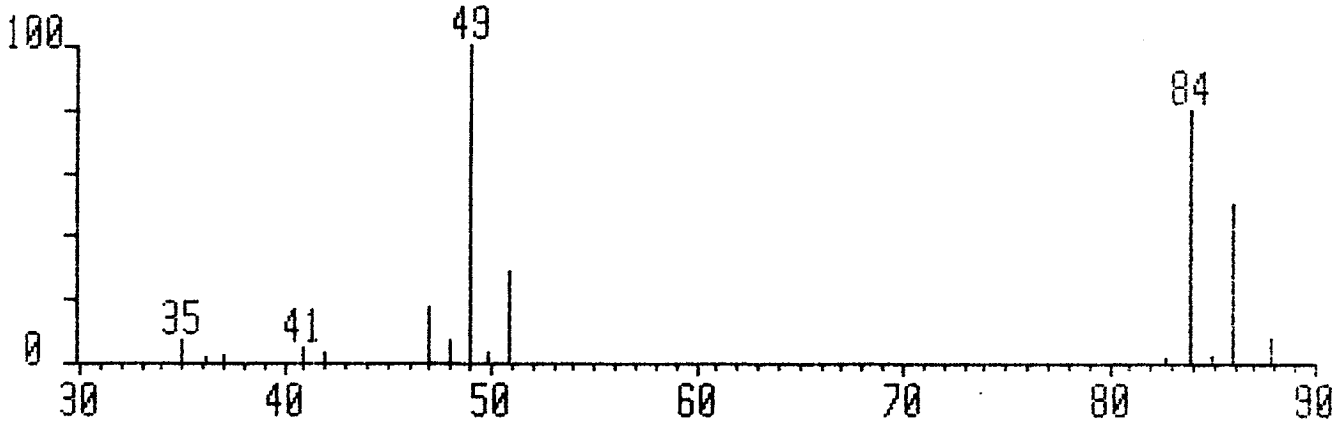
TT2051

37	53	7	93	-1	500073	vv	511	512	91	Toluene
	29	2	56	5	9390	??	517			
	29	2	58	8	4756	??	520			
38	33	1	68	9	4385	??	550	541	112	Chlorobenzene
	30	0	66	11	1077	??	552			
	30	0	67	-12	1375	??	529			
39	38	4	68	-1	38692	bv	595	596	106	Ethylbenzene
	36	3	65	1	22538	?v	597			
	30	3	60	-8	1026	b?	588			
40	23	2	41	0	6000	bb	713	713	104	Styrene
	21	2	39	-3	1000	b?	710			
	21	2	41	7	1000	bb	720			
41	41	5	72	-1	9000	?b	723	724	106	m-Xylene
	40	5	73	-3	24000	?b	721			
	37	5	71	-7	7000	b?	717			
42	41	5	72	-1	15000	?v	754	755	106	o-/p-Xylene
	40	5	74	-4	22000	b?	751			
	38	5	72	-6	12000	b?	749			
43	---------- No Trace Found ----------							0	-	

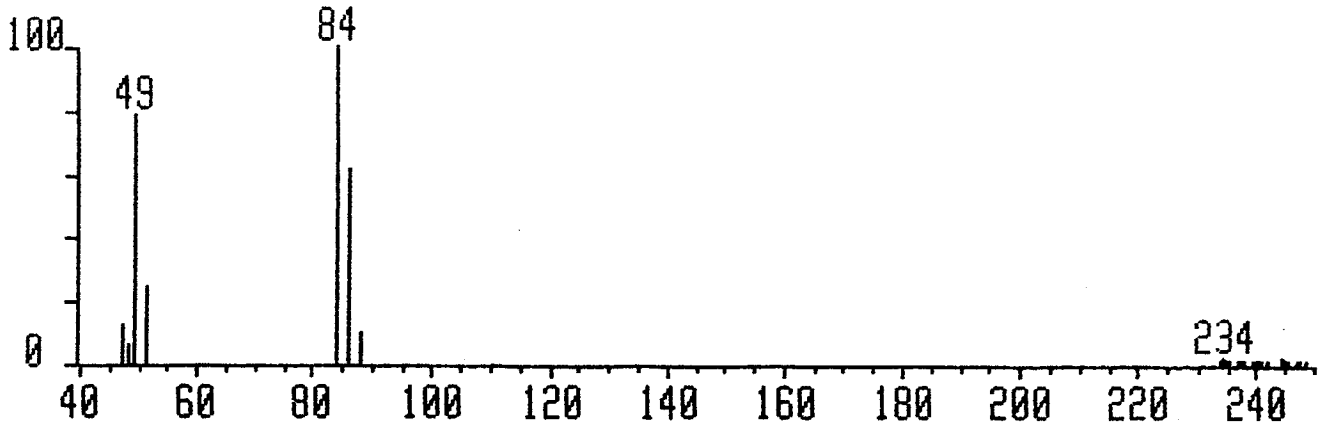
TT2051#143 x1 Bgd=1 14-JAN-92 15:14+0:07:52 EI+
I=207mv TIC=4357000 Acnt:
Text:EFFLU-5_06217_Methylene Chloride



TT2051S#143 x1 Bgd=138 14-JAN-92 15:14+0:07:52 EI+
I=207mv TIC=4203000 SU Acnt:
Text:EFFLU-5_06217_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



Report File: TIC
Data File: TT2051

TIC Scan	TIC Bkg	TIC Area	TIC Amount	Nearest IS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

INFLU-1

Lab Name: PACIFIC ANALYTICAL Contract:

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

Matrix: (soil/water) WATER Lab Sample ID: 06213

Sample wt/vol: 5.0(g/mL) ML Lab File ID: TT2011

Level: (low/med) LOW Date Received: 01/09/92

% Moisture: not dec. 0 Date Analyzed: 01/14/92

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	69	
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	35	
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.

INFLU-1

Lab Name: PACIFIC ANALYTICAL Contract:

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

Matrix: (soil/water) WATER Lab Sample ID: 06213

Sample wt/vol: 5.0(g/mL) ML Lab File ID: TT2011

Level: (low/med) LOW Date Received: 01/09/92

% Moisture: not dec. 0 Date Analyzed: 01/14/92

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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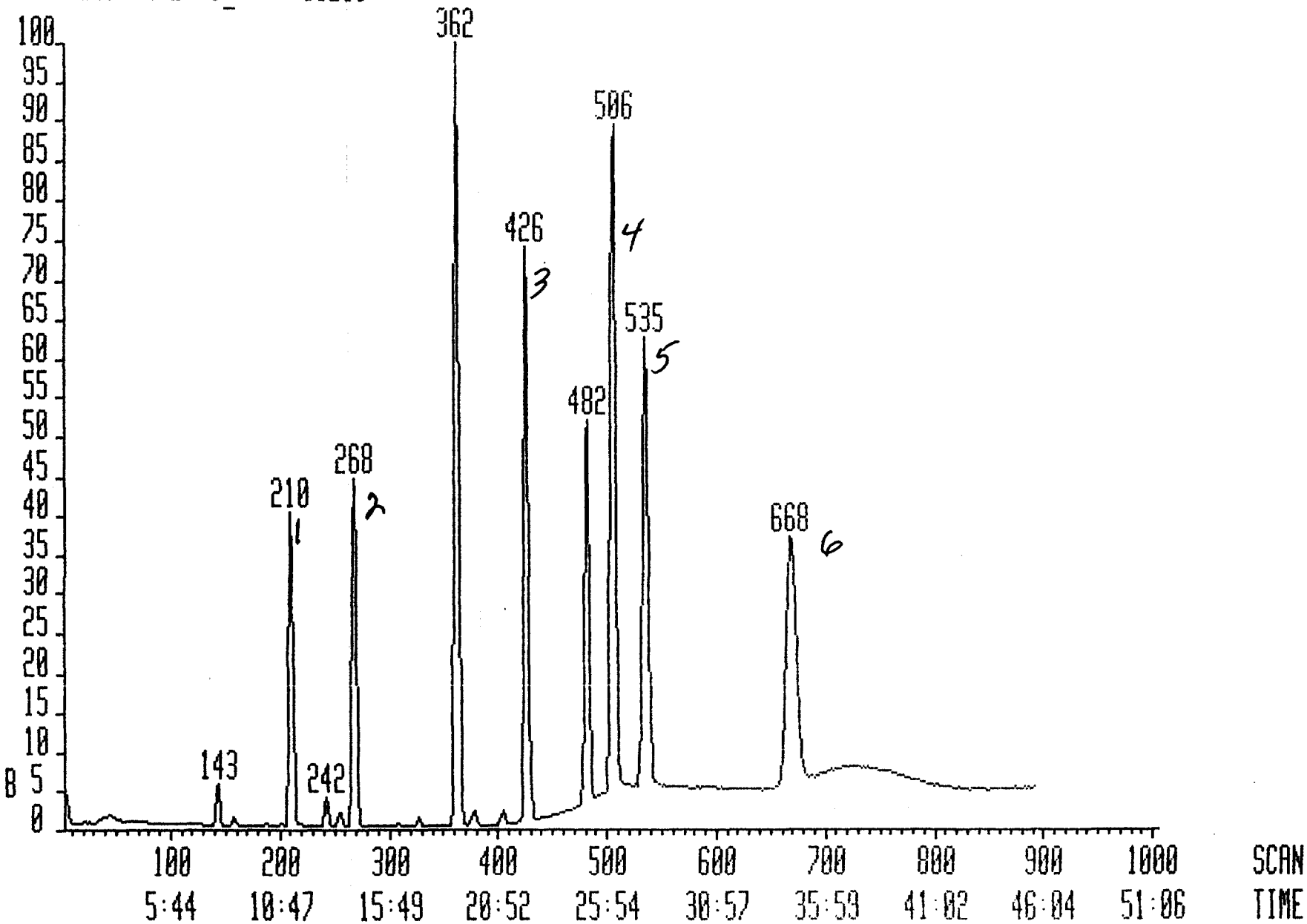
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TT2011 #5-890 14-JAN-92 11:34 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 60376000

Text:INFLU-1_ 06213



0000032

Interim Report Sample Analysis 14-JAN-92 12:50:35

Datafile: TT2011 14-JAN-92 11:34
Database: VOA91K
Library: VOA91

Instrument: VG#2
Account:
Text: INFLU-1_ 06213

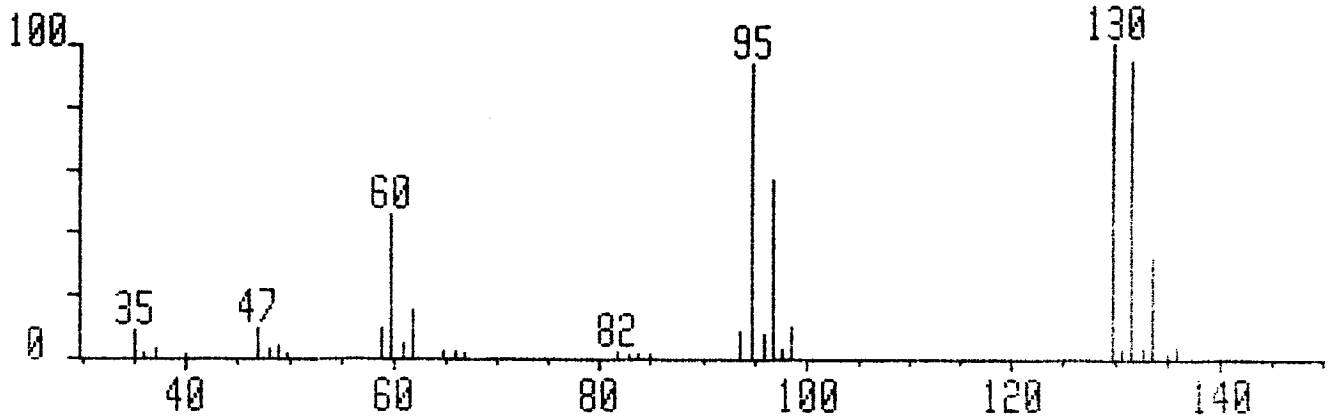
ORE 1/14/92 KD

No.	Rank	Spectrum Match	Scan Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	100	93	99	0	13475000	bb	210	210	128	Bromochloromethane
2	99	89	99	1	36192000	bv	268	267	65	1,2-Dichloroethane-d4
3	62	18	98	0	169000	bb	26	26	50	Chloromethane
4	21	0	40	-1	1000	bb	52	53	94	Bromomethane
5	----------	No	Trace	Found	----------			73	62	Vinyl Chloride
6	----------	No	Trace	Found	----------			96	64	Chloroethane
7	99	88	98	0	3079000	bb	143	143	84	Methylene Chloride
8	88	72	100	-3	1587000	bv*	158	161	43	Acetone
9	34	17	47	1	28000	bb	175	174	76	Carbon Disulfide
10	84	60	97	0	162000	bb	201	201	96	1,1-Dichloroethene
11	72	39	95	0	209000	bb	228	228	63	1,1-Dichloroethane
12	99	86	99	0	1772000	bb	242	242	96	1,2-Dichloroethene (to
13	97	84	98	0	1851000	bb	255	255	83	Chloroform
14	26	17	31	0	98000	bb	270	270	62	1,2-Dichloroethane
15	51	0	96	1	138000	vb	271	270	43	2-Butanone
	41	2	84	-9	8000	??	261			
	39	1	84	-11	1000	??	259			
16	84	59	99	0	72515000	bv	426	426	114	1,4-Difluorobenzene
17	55	17	85	0	39000	bb	298	298	97	1,1,1-Trichloroethane
18	35	2	64	0	4000	bb	306	306	117	Carbon Tetrachloride
19	----------	No	Trace	Found	----------			288	1	
20	----------	No	Trace	Found	----------			317	83	Bromodichloromethane
21	19	8	34	-13	100000	bb	333	346	63	1,2-Dichloropropane
	19	1	43	16	73000	bb	362			
22	----------	No	Trace	Found	----------			351	75	~~cis-1,3-Dichloropropen~~
23	96	80	99	0	44656000	bb	362	362	130	Trichloroethene
24	15	1	34	-14	61000	bb	362	376	129	~~Dibromochloromethane~~
25	87	70	93	0	1034000	vb	378	378	97	1,1,2-Trichloroethane
26	54	18	83	0	118000	bb	373	373	78	Benzene
27	32	4	59	4	54000	bb	382	378	75	trans-1,3-dichloroprop
28	----------	No	Trace	Found	----------			372	1	
29	----------	No	Trace	Found	----------			433	173	Bromoform
30	88	69	98	1	60265200	vv	535	534	117	Chlorobenzene-d5
31	83	60	99	-2	44860730	vv	668	670	95	4-Bromofluorobenzene
32	82	60	96	-1	85348230	vv	506	507	98	Toluene-d8
33	53	20	80	-1	60000	v?	443	444	43	4-Methyl-2-Pentanone
	49	19	78	4	0	??	448			
	47	19	78	7	4568	??	451			
34	57	27	81	-1	212675	??	476	477	43	2-Hexanone
	48	22	74	-5	3444	??	472			
	44	21	73	-10	13000	??	467			
35	94	81	99	-2	16768000	bb	481	483	164	Tetrachloroethene
36	45	2	85	3	314941	??	486	483	83	1,1,2,2-Tetrachloroeth
	44	0	83	-1	314941	vb	482			
	42	3	84	7	10342	??	490			
37	53	8	92	0	679600	vv	511	511	91	Toluene
	39	4	74	5	725800	??	516			
	36	4	73	9	38600	??	520			
38	33	1	63	3	4000	??	543	540	112	Chlorobenzene

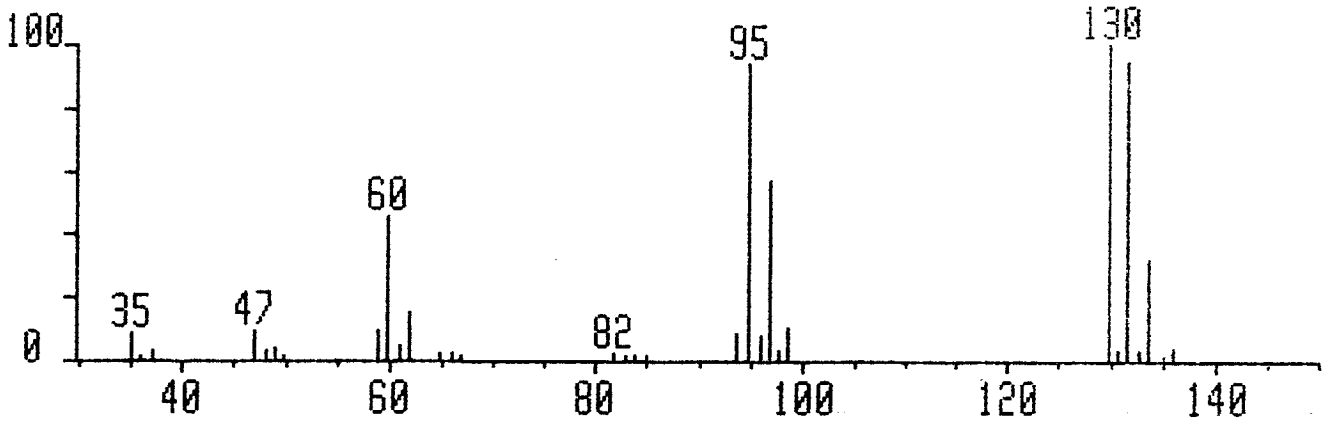
TT2011

	32	1	63	5	4000	??	545			
	32	1	64	7	6000	??	547			
39	41	5	74	-2	30000	bv	593	595	106	Ethylbenzene
	37	4	71	6	4000	??	601			
	34	4	68	9	4000	??	604			
40	19	3	34	3	18000	b?	715	712	104	Styrene
	19	3	33	-3	6000	b?	709			
	18	3	33	5	32000	bv	717			
41	43	4	78	-1	36375	?b	721	722	106	m-Xylene
	40	4	75	-5	6875	??	717			
	38	4	76	-8	9111	??	714			
42	44	5	77	0	25750	b?	753	753	106	o-/p-Xylene
	41	5	75	4	6300	??	757			
	40	4	76	-5	3150	??	748			
43	---------- No Trace Found ----------							0	-	

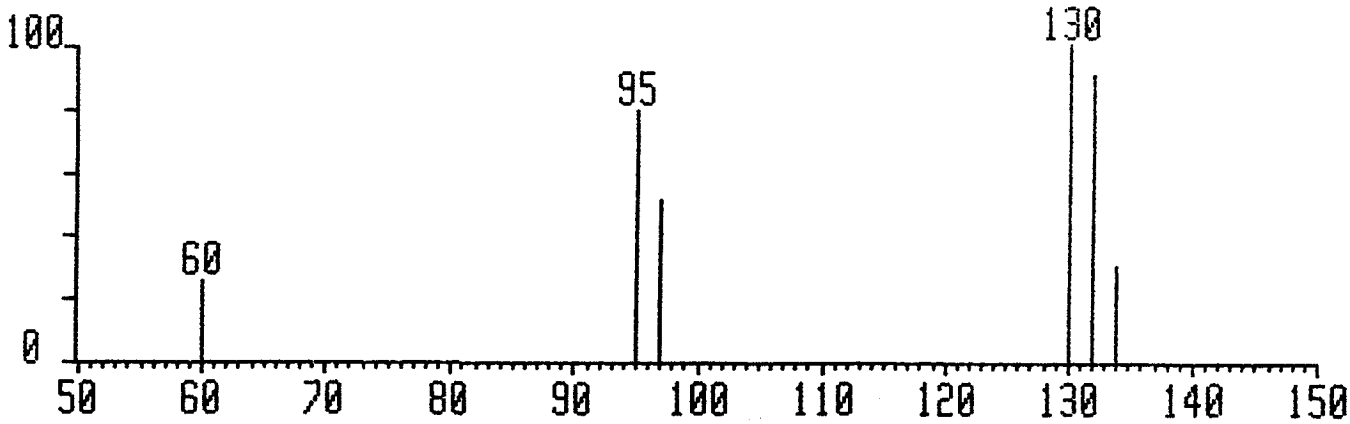
TT2011#362 x1 Bgd=350 14-JAN-92 11:34+0:18:57 EI+
I=1.8v TIC=60376000 Acnt:
Text:INFLU-1_06213_TrichLoroethene



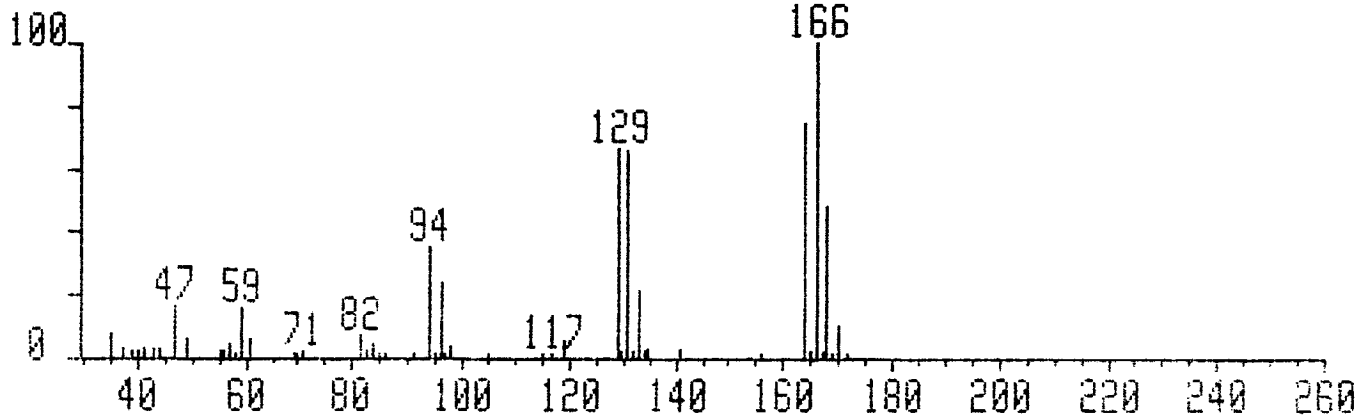
TT2011S#362 x1 Bgd=356 14-JAN-92 11:34+0:18:57 EI+
I=1.8v TIC=60248000 SU Acnt:
Text:INFLU-1_06213_TrichLoroethene



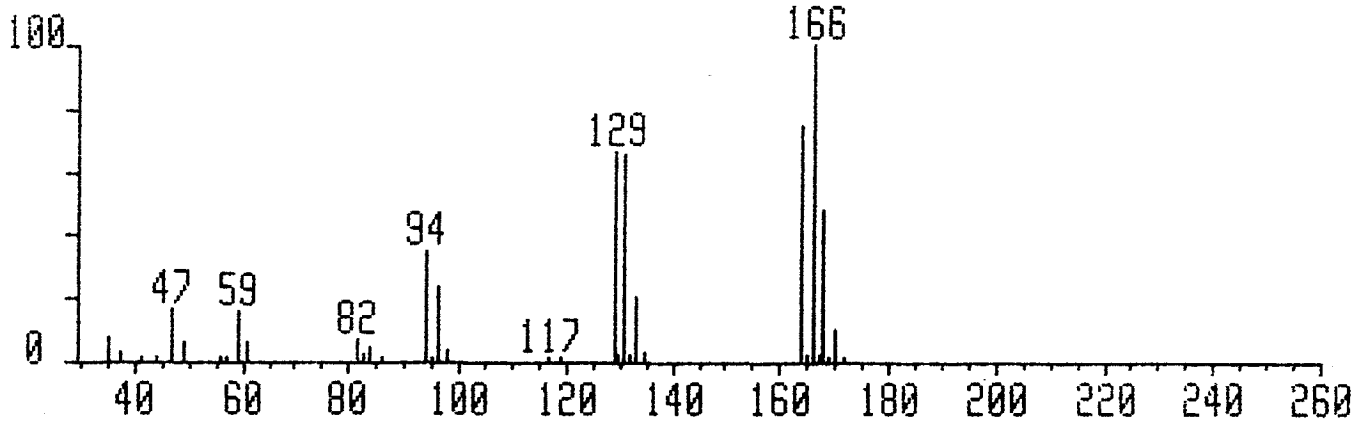
V8240#23 x1 Bgd=1 1-DEC-89 13:03+0:01:11 EI+
I=251mv TIC=11543000 Acnt:VG#2
Text:TrichLoroethene



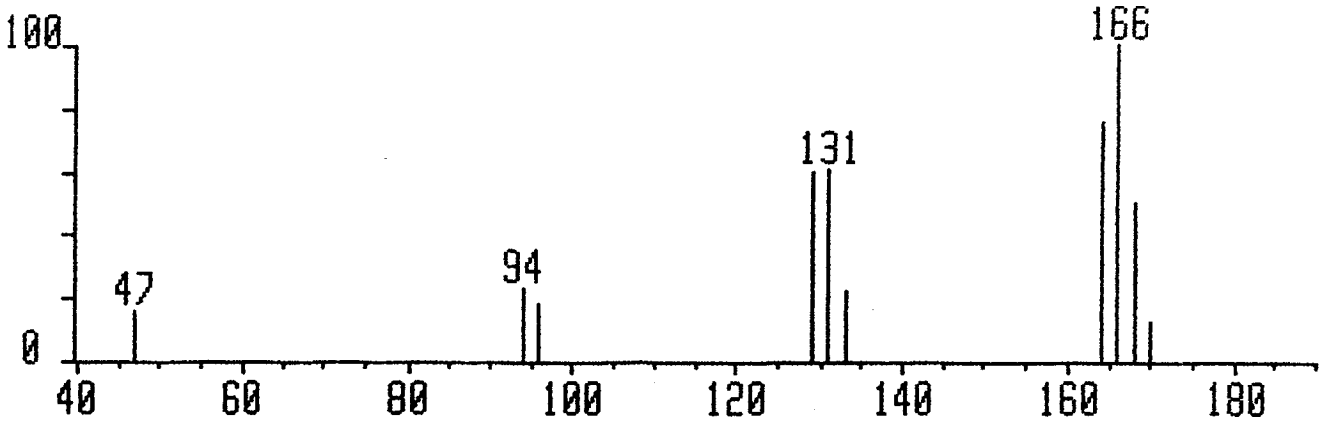
TT2011#481 x1 Bgd=444 14-JAN-92 11:34+0:24:56 EI+
I=812mv TIC=29967000 Acnt:
Text:INFLU-1_06213_Tetrachloroethene



TT2011S#481 x1 Bgd=475 14-JAN-92 11:34+0:24:56 EI+
I=812mv TIC=28174000 SU Acnt:
Text:INFLU-1_06213_Tetrachloroethene



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



Report File: TIC
Data File: TT2011

TIC Scan	TIC Bkg	TIC Area	TIC Amount	Nearest IS
426		11342	50	535
~~143~~		~~729~~	6	210

~~Yes~~. NO

Internal Std

QUA
KO
1/14/92

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF SAS No.: SGD No.

Instrument ID: VG#2 Calibration Date(s): 12/27/91 12/27/91

Heated Purge: (Y/N) N Calibration Times: 1821 1436

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

LAB FILE ID: RRF10 =PP1051 RRF20 =PP1041
RRF50=PP1031 RRF100=PP1021 RRF200=PP1011

COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Chloromethane	1.577	1.796	1.484	1.886	1.873	1.723	10.6
Bromomethane	* 0.461	0.520	0.516	0.544	0.620	0.532	10.8*
Vinyl Chloride	* 0.327	0.406	0.359	0.376	0.403	0.374	8.8*
Chloroethane	0.488	0.511	0.516	0.490	0.542	0.509	4.3
Methylene Chloride	3.943	3.230	2.345	2.233	2.129	2.776	28.3
Acetone	1.201	1.109	1.104	1.118	1.245	1.155	5.5
Carbon Disulfide	5.795	6.213	6.393	6.675	6.292	6.274	5.1
1,1-Dichloroethene	* 1.732	1.759	1.750	1.800	1.733	1.755	1.6*
1,1-Dichloroethane	* 4.166	4.461	4.297	4.450	4.231	4.321	3.0*
1,2-Dichloroethene (total)	1.930	2.003	2.048	2.018	1.862	1.976	3.5
Chloroform	* 3.566	3.665	3.893	3.798	3.826	3.750	3.5*
1,2-Dichloroethane	* 2.933	3.089	3.211	2.987	2.947	3.033	3.8*
2-Butanone	1.289	1.227	1.486	1.462	1.699	1.433	12.9
1,1,1-Trichloroethane	* 0.585	0.585	0.542	0.579	0.523	0.563	5.1*
Carbon Tetrachloride	* 0.432	0.486	0.465	0.515	0.488	0.477	6.5*
Bromodichloromethane	* 0.504	0.595	0.567	0.580	0.545	0.558	6.3*
1,2-Dichloropropane	0.507	0.570	0.544	0.546	0.512	0.536	4.9
cis-1,3-Dichloropropene	* 0.536	0.670	0.651	0.659	0.650	0.633	8.7*
Trichloroethene	* 0.386	0.438	0.458	0.429	0.396	0.421	7.1*
Dibromochloromethane	* 0.390	0.449	0.438	0.432	0.402	0.422	5.9*
1,1,2-Trichloroethane	* 0.356	0.399	0.364	0.328	0.309	0.351	9.9*
Benzene	* 1.161	1.280	1.266	1.325	1.158	1.238	6.1*
trans-1,3-dichloropropene	* 0.580	0.660	0.651	0.618	0.605	0.623	5.3*
Bromoform	* 0.201	0.257	0.257	0.256	0.250	0.244	10.0*
4-Methyl-2-Pentanone	0.437	0.444	0.457	0.441	0.486	0.453	4.4
2-Hexanone	0.330	0.378	0.438	0.430	0.532	0.422	17.9
Tetrachloroethene	* 0.403	0.411	0.422	0.427	0.389	0.410	3.7*
1,1,2,2-Tetrachloroethane	* 0.544	0.610	0.514	0.552	0.513	0.547	7.2*
Toluene	* 1.772	2.019	1.858	1.824	1.574	1.809	8.9*
Chlorobenzene	* 1.098	1.198	1.149	1.236	1.183	1.173	4.4*
Ethylbenzene	* 0.630	0.664	0.678	0.702	0.660	0.667	3.9*
Styrene	* 1.264	1.407	1.453	1.427	1.360	1.382	5.4*
Xylene (total)	* 0.752	0.831	0.853	0.843	0.778	0.811	5.4*
Toluene-d8	1.683	1.652	1.638	1.657	1.447	1.615	5.9
4-Bromofluorobenzene	* 0.854	0.811	0.861	0.878	0.810	0.843	3.6*
1,2-Dichloroethane-d4	2.802	2.505	2.746	2.698	2.619	2.674	4.3

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

FORM VI VOA

3/90 Rev.

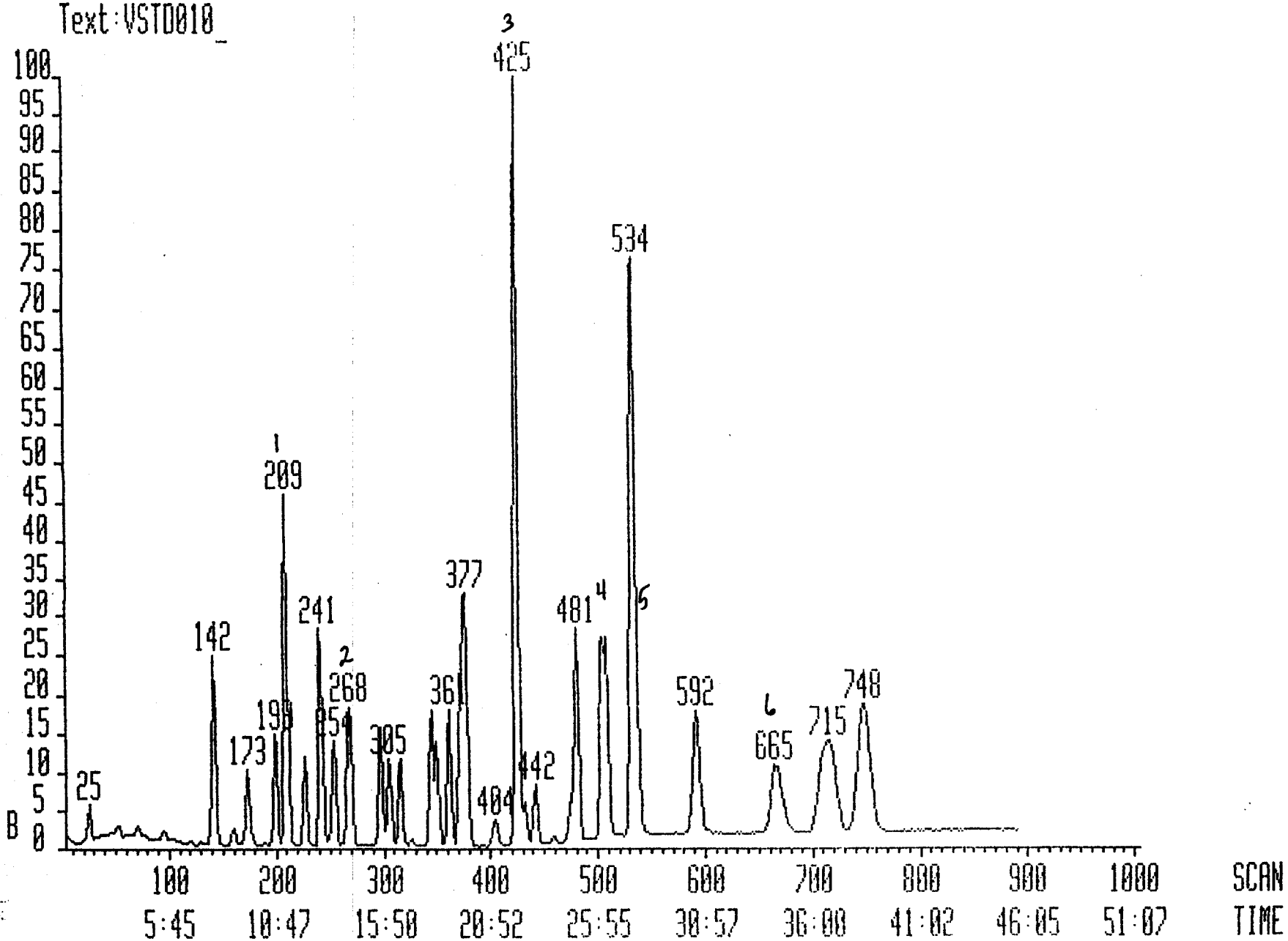
000040

~~000039~~ MEC 01-21-92

PP1051 #5-890 27-DEC-91 18:21 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 33476000

Text:VSTD010_



000041

Datafile: PP1051 27-DEC-91 18:21
Database: VOA91D
Library: VOA91

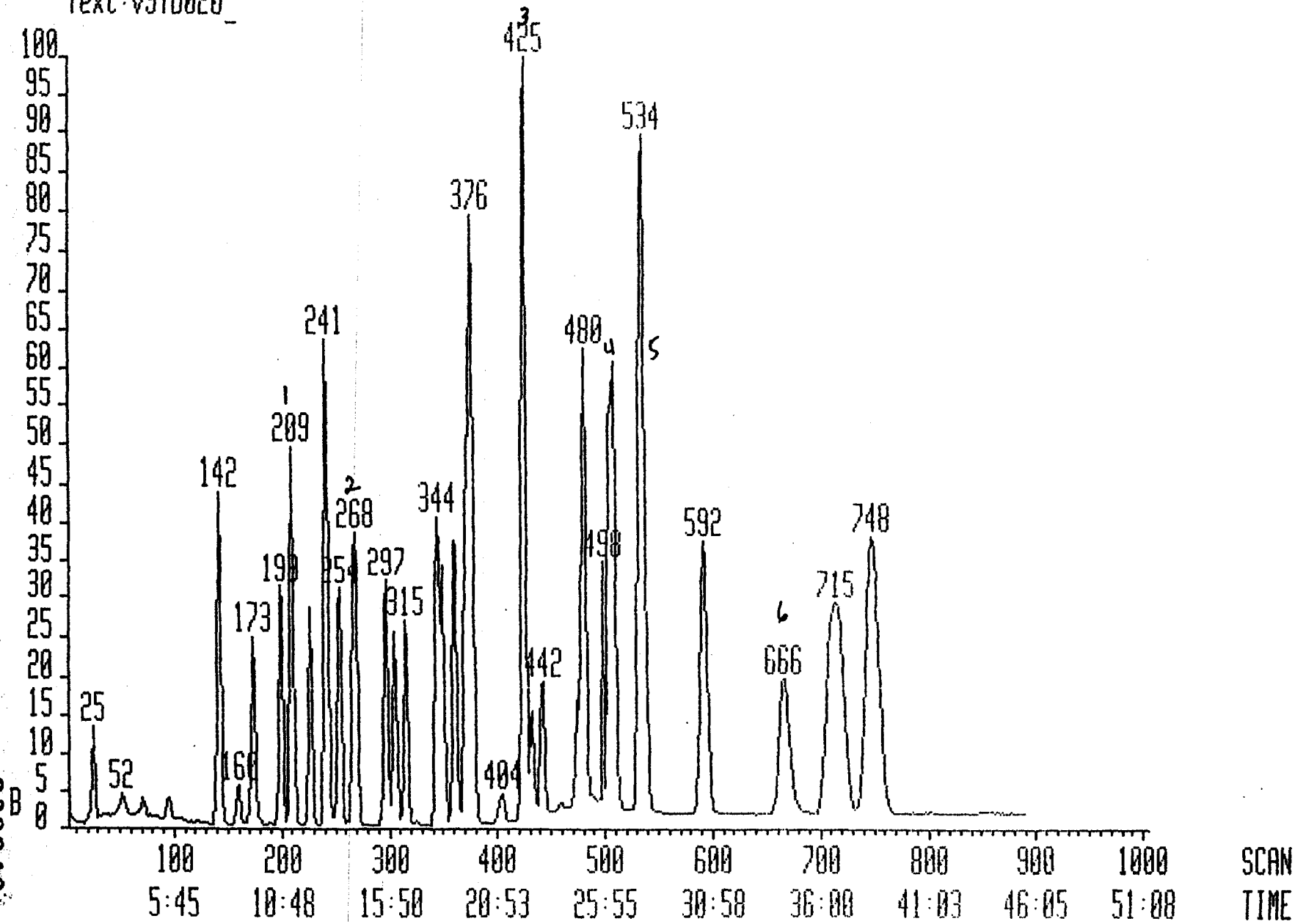
Instrument: VG#2
Account:
Text: VSTD010_

No.	Rank	Spectrum Match	Spectrum Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	96	87	94	-1	9227000	bb	209	210	128	Bromochloromethane
2	85	62	99	1	5170000	bb	267	266	65	1,2-Dichloroethane-d4
3	88	68	99	-1	2910000	bb	25	26	50	Chloromethane
4	43	19	62	0	850000	bb	52	52	94	Bromomethane
5	48	14	77	-1	603000	bb	71	72	62	Vinyl Chloride
6	65	42	82	1	900000	bb	95	94	64	Chloroethane
7	96	84	95	0	7276000	bb	142	142	84	Methylene Chloride
8	68	53	75	0	2216000	bv	160	160	43	Acetone
	41	11	75	-8	1500	??	152			
9	91	80	90	0	10695000	bb	173	173	76	Carbon Disulfide
10	97	83	99	0	3196000	bb	199	199	96	1,1-Dichloroethene
11	94	76	99	0	7688000	bb	227	227	63	1,1-Dichloroethane
12	99	86	99	0	7122000	bb	241	241	96	1,2-Dichloroethene (to
13	98	84	99	0	6581000	bb	254	254	83	Chloroform
14	85	66	93	0	5412000	bb	269	269	62	1,2-Dichloroethane
15	58	11	98	0	2379000	vb	268	268	43	2-Butanone
	46	7	84	-5	65000	b?	263			
	44	7	84	-7	65000	b?	261			
16	82	58	99	2	52714000	bb	425	423	114	1,4-Difluorobenzene
17	97	85	99	-1	6172000	bb	297	298	97	1,1,1-Trichloroethane
18	98	88	98	-1	4553000	vb	305	306	117	Carbon Tetrachloride
19	---------- No Trace Found ----------							288	1	
20	95	79	99	0	5310000	bb	316	316	83	Bromodichloromethane
21	98	84	99	0	5344000	bb	345	345	63	1,2-Dichloropropane
22	94	77	98	0	5655000	bb	350	350	75	cis-1,3-Dichloropropen
23	95	79	99	0	4074000	bb	361	361	130	Trichloroethene
24	70	31	99	0	4110000	bb	375	375	129	Dibromochloromethane
25	74	41	99	-1	3751000	bb	377	378	97	1,1,2-Trichloroethane
26	94	83	96	-1	12242000	bb	371	372	78	Benzene
27	68	30	98	0	6111000	bb	377	377	75	trans-1,3-dichloroprop
28	---------- No Trace Found ----------							372	1	
29	97	84	99	-1	2124000	bb	432	433	173	Bromoform
30	89	71	98	-1	39579000	bb*	533	534	117	Chlorobenzene-d5
31	82	56	99	-1	6759000	bb	665	666	95	4-Bromofluorobenzene
32	86	62	98	0	13325000	bb	504	504	98	Toluene-d8
33	98	87	98	1	3463056	bv	442	441	43	4-Methyl-2-Pentanone
34	92	81	94	1	2613828	vb	475	474	43	2-Hexanone
35	84	59	99	0	3188000	bb	480	480	164	Tetrachloroethene
36	65	22	99	0	4305000	bb	481	481	83	1,1,2,2-Tetrachloroeth
37	92	76	99	1	14025000	bb	509	508	91	Toluene
38	72	36	99	0	8689000	bb	537	537	112	Chlorobenzene
39	91	71	99	0	4986000	bb	592	592	106	Ethylbenzene
40	89	67	99	0	10004000	bb	709	709	104	Styrene
41	89	69	99	1	5956000	bb	718	717	106	m-Xylene
42	94	77	99	0	12047500	bb	748	748	106	o-/p-Xylene
43	---------- No Trace Found ----------							0	-	

PP1041 #5-889 27-DEC-91 17:29 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 32255000

Text:VSTD020_



0000043

Datafile: PP1041 27-DEC-91 17:29
Database: VOA91D
Library: VOA91

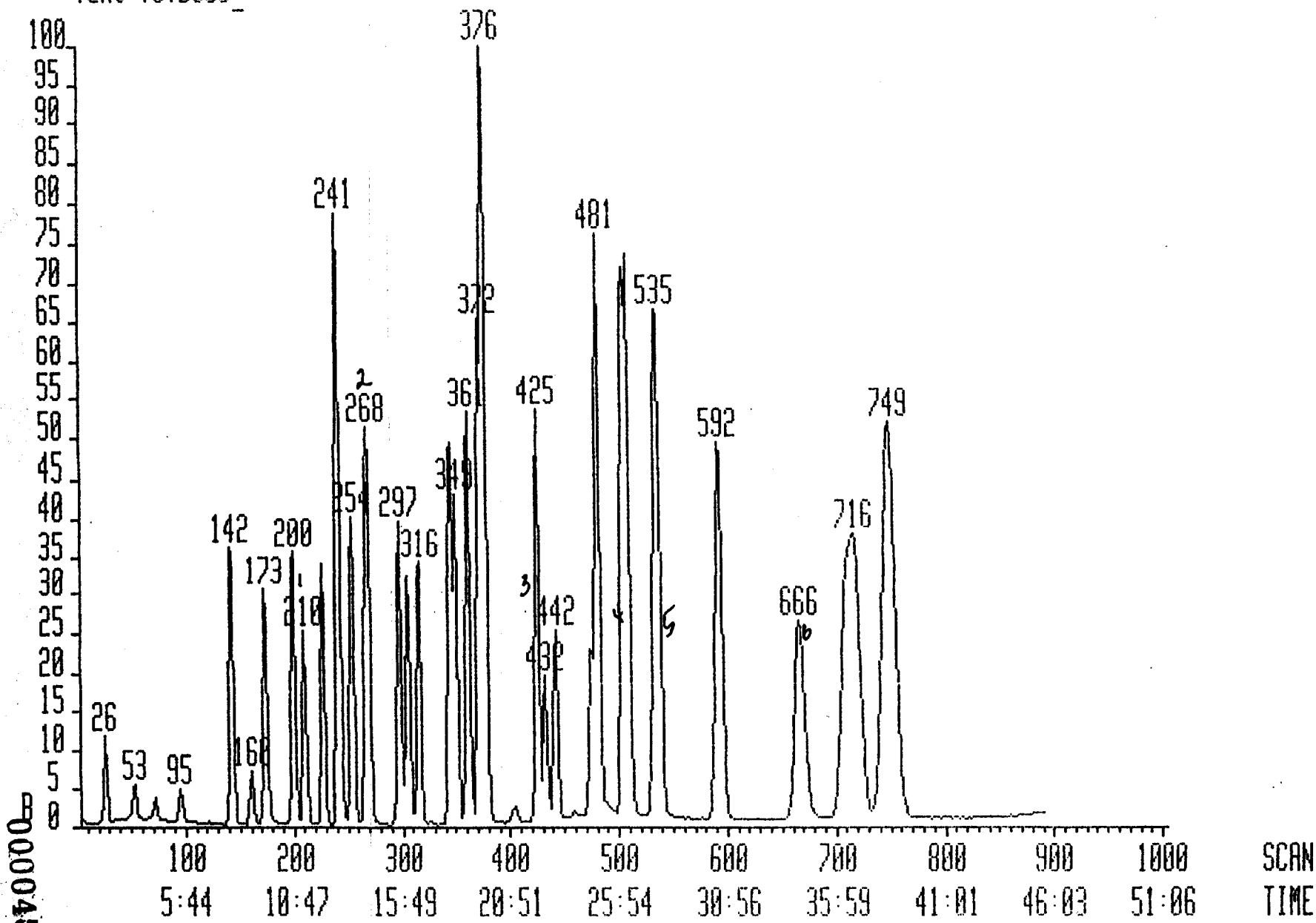
Instrument: VG#2
Account:
Text: VSTD020_

No.	Rank	Spectrum Match	Spectrum Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	96	87	95	-1	9612000	bb	209	210	128	Bromochloromethane
2	90	70	99	0	9632000	bb	266	266	65	1,2-Dichloroethane-d4
3	92	76	99	-1	6904000	bb	25	26	50	Chloromethane
4	50	31	62	0	1999000	bb	52	52	94	Bromomethane
5	55	27	77	-1	1562000	bb	71	72	62	Vinyl Chloride
6	69	48	82	1	1965000	bb	95	94	64	Chloroethane
7	96	85	95	0	12419000	bb	142	142	84	Methylene Chloride
8	95	79	99	0	4263000	bv	160	160	43	Acetone
9	100	90	99	0	23888000	bb	173	173	76	Carbon Disulfide
10	98	85	98	0	6764000	bb	199	199	96	1,1-Dichloroethene
11	93	75	99	0	17151000	bb	227	227	63	1,1-Dichloroethane
12	99	86	99	0	15403000	bv	241	241	96	1,2-Dichloroethene (to
13	98	84	99	0	14093000	bb	254	254	83	Chloroform
14	89	71	95	0	11877000	bb	269	269	62	1,2-Dichloroethane
15	59	11	99	0	4716000	vv*	268	268	43	2-Butanone
	53	13	97	-7	130000	v?	261			
	43	14	84	14	36000	??	282			
16	80	56	98	2	49673000	bb*	425	423	114	1,4-Difluorobenzene
17	96	83	99	-1	11617000	bb	297	298	97	1,1,1-Trichloroethane
18	98	88	98	-1	9664000	vb	305	306	117	Carbon Tetrachloride
19	----------		No	Trace	Found	----------		288	1	
20	93	78	99	-1	11825000	bb	315	316	83	Bromodichloromethane
21	97	84	99	-1	11322000	bb	344	345	63	1,2-Dichloropropane
22	92	76	99	-1	13316000	bb	349	350	75	cis-1,3-Dichloropropen
23	94	80	99	-1	8695000	bb	360	361	130	Trichloroethene
24	70	34	99	-1	8926000	bb	374	375	129	Dibromochloromethane
25	74	42	98	-1	7928000	bb	377	378	97	1,1,2-Trichloroethane
26	94	82	97	-1	25440000	bb	371	372	78	Benzene
27	68	31	98	-1	13112000	bb	376	377	75	trans-1,3-dichloroprop
28	----------		No	Trace	Found	----------		372	1	
29	96	82	99	-1	5104000	bb	432	433	173	Bromoform
30	87	66	98	-1	40581000	bb	533	534	117	Chlorobenzene-d5
31	86	61	99	0	13162000	bv	666	666	95	4-Bromofluorobenzene
32	86	62	99	0	26818000	vb	504	504	98	Toluene-d8
33	94	81	98	1	7205667	vv	442	441	43	4-Methyl-2-Pentanone
34	92	75	97	0	6139000	vv	474	474	43	2-Hexanone
35	82	55	99	0	6675000	bb	480	480	164	Tetrachloroethene
36	66	24	99	0	9907000	bb	481	481	83	1,1,2,2-Tetrachloroeth
37	93	78	99	1	32769000	bb	509	508	91	Toluene
38	80	51	99	0	19447000	bv	537	537	112	Chlorobenzene
39	93	75	99	0	10785000	bb	592	592	106	Ethylbenzene
40	93	75	99	0	22846000	bb	709	709	104	Styrene
41	90	73	98	1	13490000	bv	718	717	106	m-Xylene
42	96	82	99	1	26485000	bb	749	748	106	o-/p-Xylene
43	----------		No	Trace	Found	----------		0	-	

PP1031 #5-890 27-DEC-91 16:37 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 66370000

Text:VSTD050



0000045

Interim Report Sample Analysis 27-DEC-91 19:16:21

Datafile: PP1031 27-DEC-91 16:37 QRE
Database: VOA91D
Library: VOA91

Instrument: VG#2
Account:
Text: VSTD050_

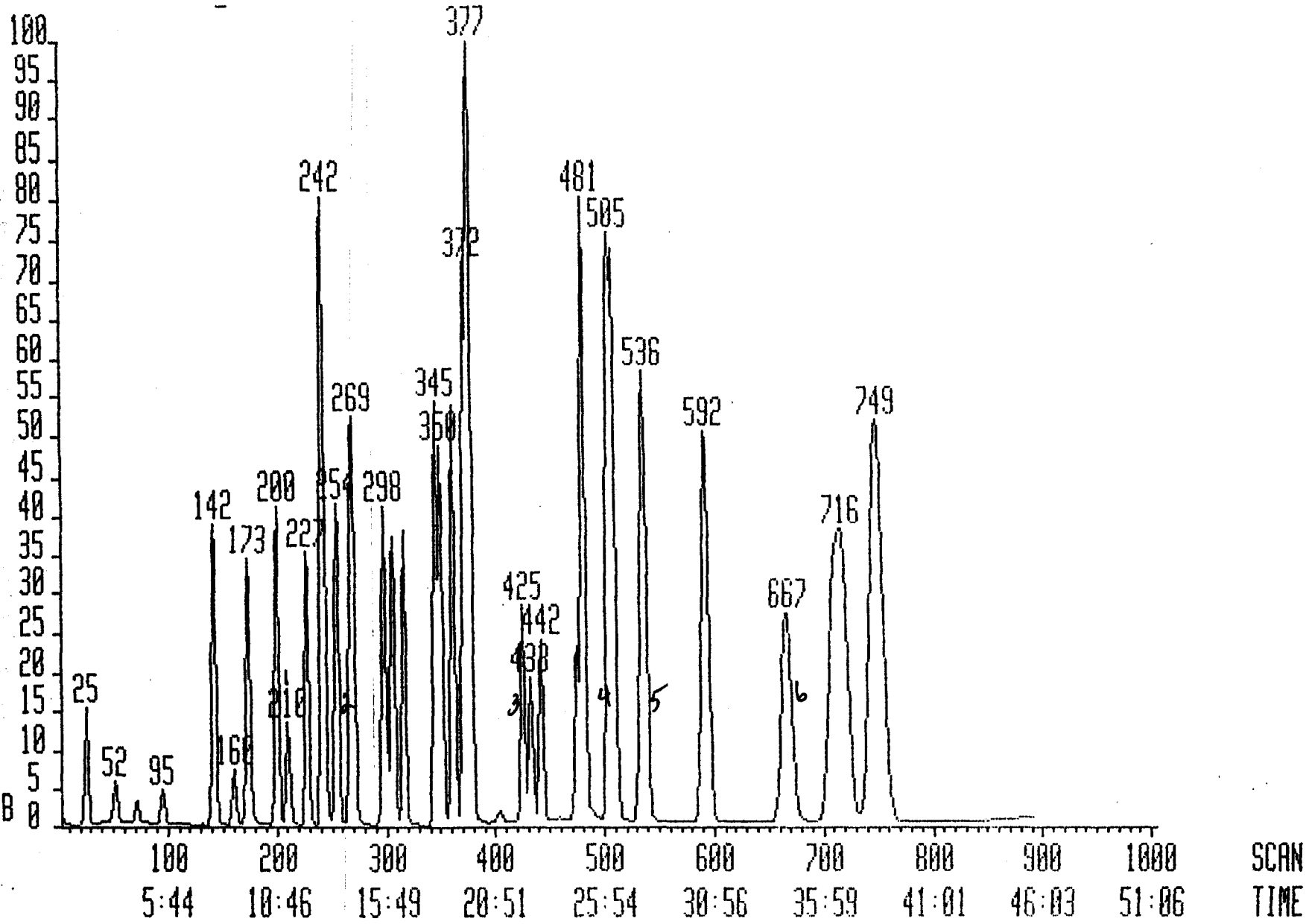
No.	Rank	Spectrum Match	Fit	Scan Diff	Peak Area	Flgs	Scan Found	Pred	Quan m/z	Compound Name
1	97	87	95	0	9526000	bb	210	210	128	Bromochloromethane
2	84	58	99	0	26158000	bb	267	267	65	1,2-Dichloroethane-d4
3	95	76	99	0	14139000	bb	26	26	50	Chloromethane
4	92	75	99	1	4918000	bb	53	52	94	Bromomethane
5	82	54	99	0	3419000	bb	72	72	62	Vinyl Chloride
6	92	73	99	0	4919000	bb	95	95	64	Chloroethane
7	95	85	95	-1	22343000	bb	142	143	84	Methylene Chloride
8	96	83	99	-1	10516780	bv*	160	161	43	Acetone
9	100	90	99	-1	60902000	bb	173	174	76	Carbon Disulfide
10	98	86	98	0	16673000	bv	200	200	96	1,1-Dichloroethene
11	91	74	99	-1	40934000	bb	227	228	63	1,1-Dichloroethane
12	97	85	99	-1	39012000	bv*	241	242	96	1,2-Dichloroethane (to
13	97	85	99	-1	37088000	bb	254	255	83	Chloroform
14	85	67	94	-1	30585000	bb	269	270	62	1,2-Dichloroethane
15	60	14	99	-1	14160000	vv*	268	269	43	2-Butanone
	45	27	84	18	63698	??	287			
	43	4	84	-7	113860	??	262			
16	83	57	99	0	54864000	bb*	425	425	114	1,4-Difluorobenzene
17	97	84	99	-1	29726000	bb	297	298	97	1,1,1-Trichloroethane
18	99	89	98	-1	25514000	vb	305	306	117	Carbon Tetrachloride
19	----------		No	Trace	Found	----------		288	1	
20	95	78	99	0	31130000	bb	316	316	83	Bromodichloromethane
21	96	83	99	-1	29824000	bb	344	345	63	1,2-Dichloropropane
22	93	77	99	-1	35722000	bb	349	350	75	cis-1,3-Dichloropropen
23	95	79	99	0	25103000	bv	361	361	130	Trichloroethene
24	70	34	98	-1	24053000	bb	374	375	129	Dibromochloromethane
25	73	40	99	-1	19951000	vb	377	378	97	1,1,2-Trichloroethane
26	95	83	97	-1	69470000	bv	371	372	78	Benzene
27	68	31	98	-1	35737500	bb	376	377	75	trans-1,3-dichloroprop
28	----------		No	Trace	Found	----------		372	1	
29	99	88	99	-1	14103000	bb	432	433	173	Bromoform
30	83	60	98	-1	44620000	bv*	533	534	117	Chlorobenzene-d5
31	89	67	99	0	38430000	bv	666	666	95	4-Bromofluorobenzene
32	87	64	98	0	73102000	bb	504	504	98	Toluene-d8
33	97	86	98	1	20409320	vv	442	441	43	4-Methyl-2-Pentanone
34	96	83	98	1	19544580	bv	475	474	43	2-Hexanone
35	86	62	99	0	18837000	bb	480	480	164	Tetrachloroethene
36	64	21	99	0	22931000	bv	481	481	83	1,1,2,2-Tetrachloroeth
	38	1	85	14	53000	?b	495			
37	94	79	99	1	82911000	bv	509	508	91	Toluene
38	86	61	99	0	51250000	bv	537	537	112	Chlorobenzene
39	95	78	99	0	30250000	bb	592	592	106	Ethylbenzene
40	95	81	99	-1	64823020	bb	708	709	104	Styrene
41	92	78	99	2	20039420	?b	719	717	106	m-Xylene 38058000
42	97	84	99	1	73509020	bb	749	748	106	o-/p-Xylene
43	----------		No	Trace	Found	----------		0	-	

WEC 12-27-91

PP1021 #5-890 27-DEC-91 15:32 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 129076000

Text:VSTD100_



000047

Interim Report Sample Analysis 27-DEC-91 19:11:19

Datafile: PP1021 27-DEC-91 15:32 QRE
Database: VOA91D
Library: VOA91

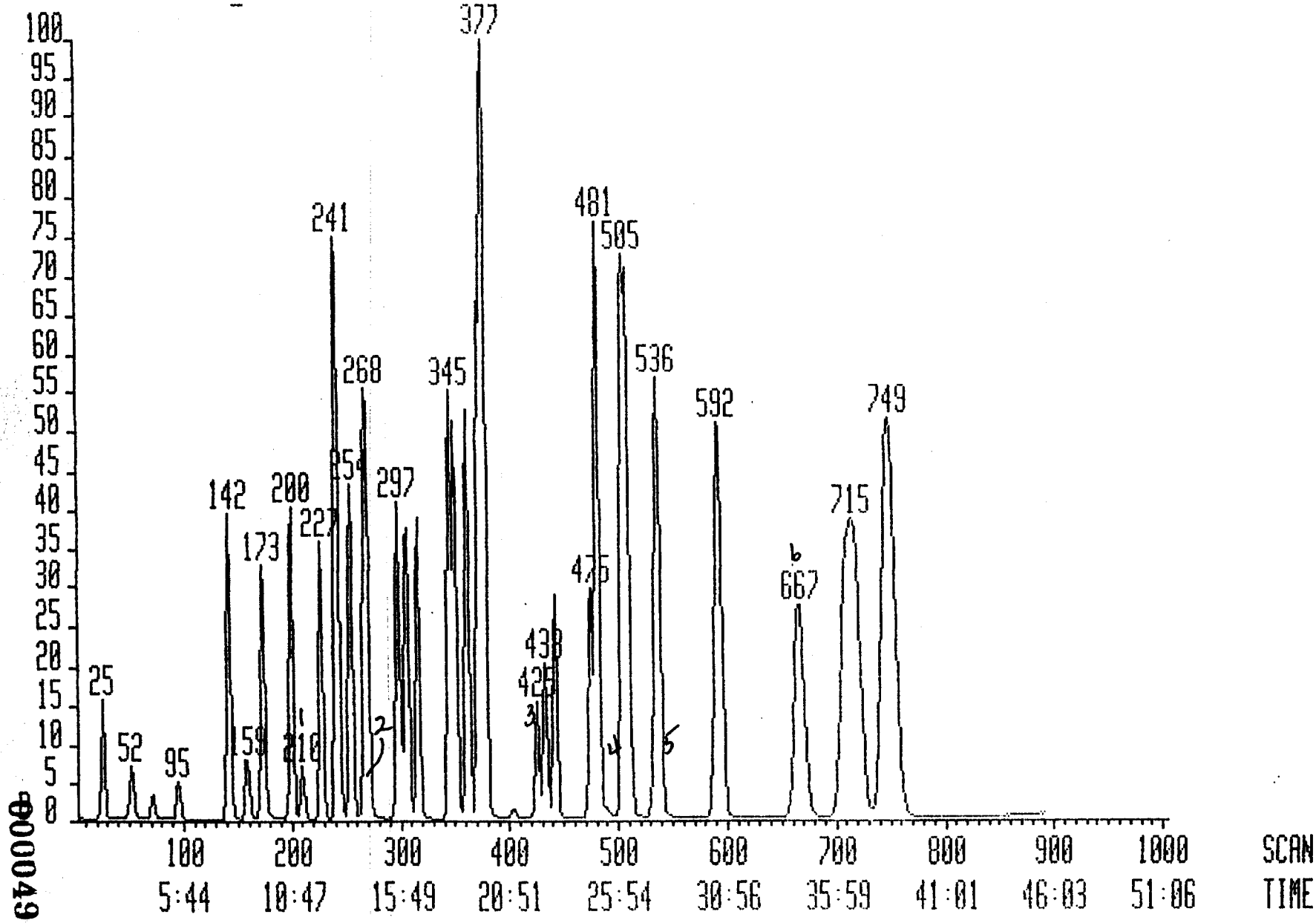
Instrument: VG#2
Account:
Text: VSTD100_

No.	Rank	Spectrum Match	Fit	Scan Diff	Peak Area	Flgs	Scan Found	Pred	Quan m/z (MSC 12-27-91)	Compound Name
1	97	86	95	0	9968000	bb	210	210	128	Bromochloromethane
2	89	68	99	0	53794000	bv	267	267	65	1,2-Dichloroethane-d4
3	95	81	99	-1	37609000	bb	25	26	50	Chloromethane
4	98	84	99	0	10845000	bb	52	52	94	Bromomethane
5	87	63	99	0	7488000	bb	72	72	62	Vinyl Chloride
6	94	77	99	0	9776000	bb	95	95	64	Chloroethane
7	99	89	99	-1	44526000	bb	142	143	84	Methylene Chloride
8	96	83	99	-1	22288500	bv	160	161	43	Acetone
9	100	90	99	-1	133071000	bb*	173	174	76	Carbon Disulfide
10	98	85	98	0	35882000	bb	200	200	96	1,1-Dichloroethene
11	91	74	99	-1	88710570	bv	227	228	63	1,1-Dichloroethane
12	97	85	99	-1	80449540	bv*	241	242	96	1,2-Dichloroethene (to
13	97	85	99	-1	75713000	bv	254	255	83	Chloroform
14	88	69	95	0	59557000	bb	270	270	62	1,2-Dichloroethane
15	60	14	99	0	29141500	vv	269	269	43	2-Butanone
	42	3	84	-7	21500	??	262			
	34	1	84	-19	41833	b?	250			
16	83	57	99	0	56976000	bv*	425	425	114	1,4-Difluorobenzene
17	97	84	99	-1	65927000	bb	297	298	97	1,1,1-Trichloroethane
18	100	89	98	0	58650000	vb	306	306	117	Carbon Tetrachloride
19	---------- No Trace Found ----------							288	1	
20	95	78	99	0	66084000	bb	316	316	83	Bromodichloromethane
21	97	83	99	0	62227000	bv	345	345	63	1,2-Dichloropropane
22	95	78	99	0	75093020	bb	350	350	75	cis-1,3-Dichloropropen
23	96	80	99	0	48937000	bv	361	361	130	Trichloroethene
24	72	35	99	0	49234000	bb	375	375	129	Dibromochloromethane
25	74	41	98	0	37360970	vb	378	378	97	1,1,2-Trichloroethane
26	96	82	97	0	151040100	bb	372	372	78	Benzene
27	70	33	98	0	70458220	bv	377	377	75	trans-1,3-dichloroprop
28	---------- No Trace Found ----------							372	1	
29	100	90	99	0	29217000	bb	433	433	173	Bromoform
30	80	53	98	-1	44729000	bb*	533	534	117	Chlorobenzene-d5
31	88	67	99	1	78525010	bb	667	666	95	4-Bromofluorobenzene
32	87	64	98	0	148226200	bv	504	504	98	Toluene-d8
33	97	86	98	1	39449410	vv	442	441	43	4-Methyl-2-Pentanone
34	97	86	97	1	38500970	vv	475	474	43	2-Hexanone
35	87	64	99	0	38191000	bb	480	480	164	Tetrachloroethene
36	65	24	99	1	49343000	bv*	482	481	83	1,1,2,2-Tetrachloroeth
37	94	79	99	1	163144600	bv	509	508	91	Toluene
38	89	68	99	0	110549000	bb	537	537	112	Chlorobenzene
39	95	78	99	0	62790000	bb	592	592	106	Ethylbenzene
40	96	83	99	-1	127699000	bv	708	709	104	Styrene
	93	78	99	1	127699000	bv	710			
41	93	79	99	2	41306160	?b	719	717	106	m-Xylene TS 368408
42	98	84	99	0	147128000	bb	748	748	106	o-/p-Xylene
43	---------- No Trace Found ----------							0	-	

PP1011 #5-890 27-DEC-91 14:36 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 270230176

Text:VSTD200



000049

Interim Report Sample Analysis 27-DEC-91 15:37:30

Datafile: PP1011 27-DEC-91 14:36 QRK
Database: VOA91D
Library: VOA91

Instrument: VG#2
Account:
Text: VSTD200_

No.	Rank	Spectrum Match	Fit	Scan Diff	Peak Area	Flgs	Scan Found	Pred	Quan m/z	Compound Name
1	97	86	95	0	10926000	bb	210	210	128	Bromochloromethane
2	86	61	99	0	114459400	bv	267	267	65	1,2-Dichloroethane-d4
3	96	82	99	-1	81870000	bb	25	26	50	Chloromethane
4	100	88	99	0	27111000	bb	52	52	94	Bromomethane
5	90	70	99	0	17610000	bb	72	72	62	Vinyl Chloride
6	96	80	99	0	23672000	bb	95	95	64	Chloroethane
7	99	89	98	-1	93001000	bv	142	143	84	Methylene Chloride
8	94	83	99	-3	54411500	bv	158	161	43	Acetone
9	100	90	99	-1	274967900	bv*	173	174	76	Carbon Disulfide
10	98	85	98	0	75753000	bb*	200	200	96	1,1-Dichloroethene
11	92	75	99	-1	184897200	bv	227	228	63	1,1-Dichloroethane
12	97	84	99	-1	164472400	bv*	241	242	96	1,2-Dichloroethene (to
13	97	85	99	-1	167213100	bv	254	255	83	Chloroform
14	89	71	96	0	128792200	bv	270	270	62	1,2-Dichloroethane
15	61	17	99	-1	74247560	vv*	268	269	43	2-Butanone
	49	18	99	17	203542	??	286			
	49	22	99	19	203542	?b	288			
16	83	56	99	0	64675000	bv*	425	425	114	1,4-Difluorobenzene
17	97	84	99	-1	135362000	bb	297	298	97	1,1,1-Trichloroethane
18	99	88	98	0	126324000	vb	306	306	117	Carbon Tetrachloride
19	---------- No Trace Found ----------							288	1	
20	95	78	99	0	141095100	vb	316	316	83	Bromodichloromethane
21	97	83	99	0	132571300	bv	345	345	63	1,2-Dichloropropane
22	95	78	99	0	168071100	bb	350	350	75	cis-1,3-Dichloropropen
23	95	79	99	0	102512300	bv	361	361	130	Trichloroethene
24	72	35	99	0	104055000	bb	375	375	129	Dibromochloromethane
25	75	42	99	0	79945510	vv	378	378	97	1,1,2-Trichloroethane
26	96	84	97	-1	299511200	bv*	371	372	78	Benzene
27	70	33	98	0	156452900	bv	377	377	75	trans-1,3-dichloroprop
28	---------- No Trace Found ----------							372	1	
29	100	91	99	-1	64667000	bb	432	433	173	Bromoform
30	79	54	98	-2	51262000	bv*	532	534	117	Chlorobenzene-d5
31	86	68	99	3	166121700	bv	667	664	95	4-Bromofluorobenzene
32	85	63	98	1	296752700	vv	504	503	98	Toluene-d8
33	97	88	98	2	99562010	vv	442	440	43	4-Methyl-2-Pentanone
34	97	89	98	2	109085200	vv	475	473	43	2-Hexanone
35	83	60	99	2	79709260	bv	481	479	164	Tetrachloroethene
36	65	25	99	2	105160200	vv*	482	480	83	1,1,2,2-Tetrachloroeth
37	92	78	99	2	322769800	bv	509	507	91	Toluene
38	90	72	99	1	242494100	bv	537	536	112	Chlorobenzene
39	93	78	99	1	135386000	bb	592	591	106	Ethylbenzene
40	95	81	99	1	278811100	bb	709	708	104	Styrene
41	92	80	99	3	159577100	bb	719	716	106	m-Xylene
42	97	84	99	1	155092600	b?	747	746	106	o-/p-Xylene
	95	85	99	3	181135200	?v	749			
43	---------- No Trace Found ----------							0	-	

31173977G ✓
KD 12/27/91

000050

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: 01/14/92 Time: 0846

Lab File ID: TT1011 Init. Calib. Date(s): 12/27/91 12/27/91

Heated Purge: (Y/N) N Init. Calib. Times: 1821 1436

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

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	1.723	1.596		7.0	
Bromomethane	0.532	0.450	0.100	15.0	25.0
Vinyl Chloride	0.374	0.420	0.100	-12.0	25.0
Chloroethane	0.509	0.496		3.0	
Methylene Chloride	2.776	2.309		17.0	
Acetone	1.155	1.269		-10.0	
Carbon Disulfide	6.274	6.713		-7.0	
1,1-Dichloroethene	1.755	1.842	0.100	-5.0	25.0
1,1-Dichloroethane	4.321	4.281	0.200	1.0	25.0
1,2-Dichloroethene (total)	1.976	2.140		-8.0	
Chloroform	3.750	3.964	0.200	-6.0	25.0
1,2-Dichloroethane	3.033	3.112	0.100	-3.0	25.0
2-Butanone	1.433	1.701		-19.0	
1,1,1-Trichloroethane	0.563	0.579	0.100	-3.0	25.0
Carbon Tetrachloride	0.477	0.466	0.100	2.0	25.0
Bromodichloromethane	0.558	0.574	0.200	-3.0	25.0
1,2-Dichloropropane	0.536	0.548		-2.0	
cis-1,3-Dichloropropene	0.633	0.711	0.200	-12.0	25.0
Trichloroethene	0.421	0.449	0.300	-7.0	25.0
Dibromochloromethane	0.422	0.448	0.100	-6.0	25.0
1,1,2-Trichloroethane	0.351	0.356	0.100	-1.0	25.0
Benzene	1.238	1.409	0.500	-14.0	25.0
trans-1,3-dichloropropene	0.623	0.678	0.100	-9.0	25.0
Bromoform	0.244	0.233	0.100	5.0	25.0
4-Methyl-2-Pentanone	0.453	0.436		4.0	
2-Hexanone	0.422	0.445		-5.0	
Tetrachloroethene	0.410	0.397	0.200	3.0	25.0
1,1,2,2-Tetrachloroethane	0.547	0.489	0.500	11.0	25.0
Toluene	1.809	1.679	0.400	7.0	25.0
Chlorobenzene	1.173	1.145	0.500	2.0	25.0
Ethylbenzene	0.667	0.668	0.100	0.0	25.0
Styrene	1.382	1.318	0.300	5.0	25.0
Xylene (total)	0.811	0.764	0.300	6.0	25.0
Toluene-d8	1.615	1.413		13.0	
4-Bromofluorobenzene	0.843	0.732	0.200	13.0	25.0
1,2-Dichloroethane-d4	2.674	2.775		-4.0	

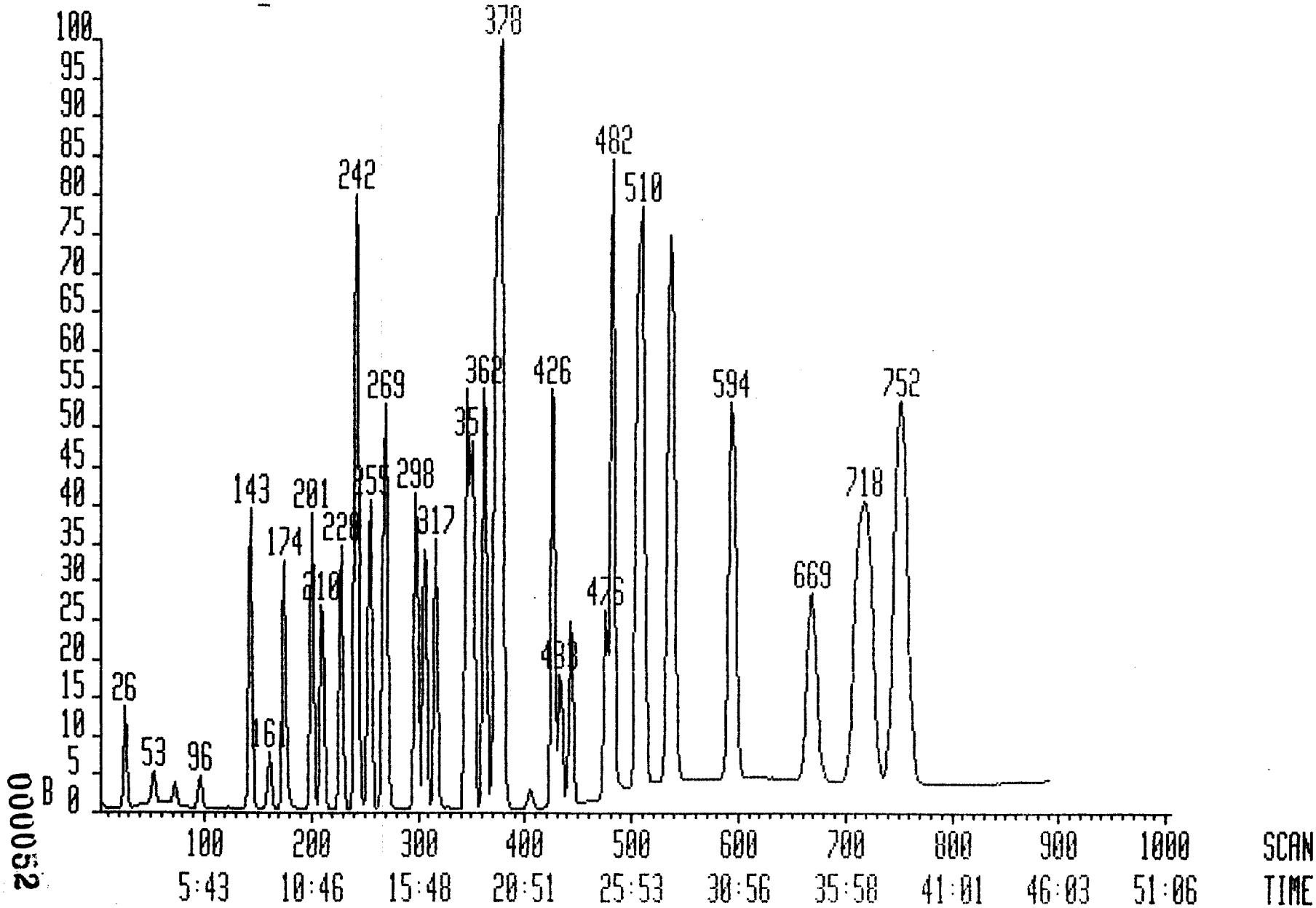
All other compounds must meet a minimum RRF of 0.010.

FORM VII VOA 3/90 Rev.

TT1011 #5-890 14-JAN-92 08:46 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 91081000

Text:VSTD050_ 00050



000052

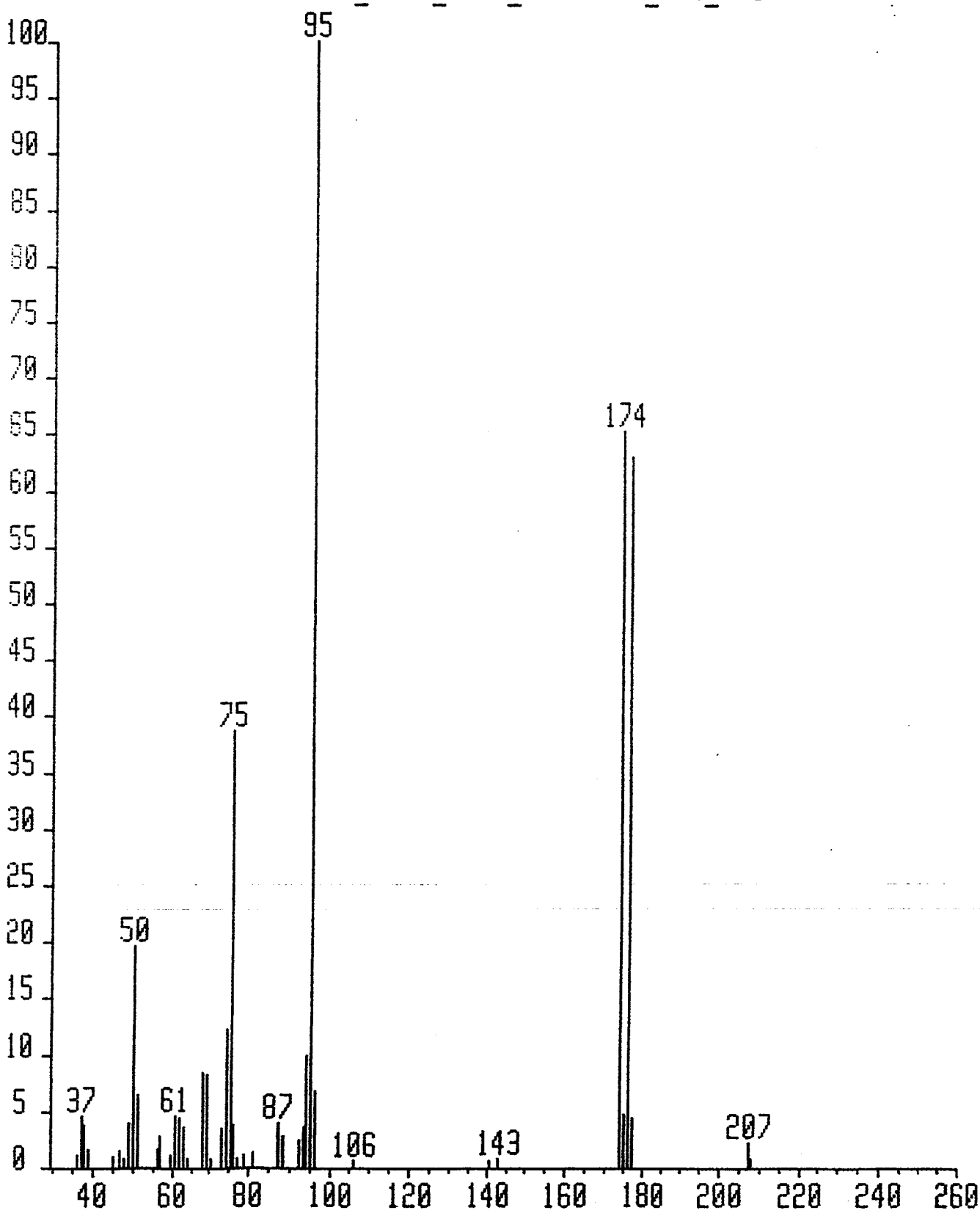
Interim Report Sample Analysis 14-JAN-92 09:55:26

Datafile: TT1011 14-JAN-92 08:46
Database: VOA91K
Library: VOA91

Instrument: VG#2
Account:
Text: VSTD050_ 00050

No.	Rank	Spectrum Match	Spectrum Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	100	93	99	0	13775000	bb	210	210	128	Bromochloromethane
2	94	77	99	0	38223000	bv	267	267	65	1,2-Dichloroethane-d4
3	96	81	99	0	21988000	bb	26	26	50	Chloromethane
4	94	77	99	0	6193000	bb	53	53	94	Bromomethane
5	84	61	99	1	5783000	bb	73	72	62	Vinyl Chloride
6	95	79	99	0	6826000	bb	96	96	64	Chloroethane
7	100	89	99	0	31810000	bb	143	143	84	Methylene Chloride
8	98	84	99	0	17477730	bv	161	161	43	Acetone
9	100	91	99	1	92471990	bb	174	173	76	Carbon Disulfide
10	98	86	99	1	25377000	bv	201	200	96	1,1-Dichloroethene
11	92	75	99	1	58972610	bv	228	227	63	1,1-Dichloroethane
12	97	85	99	1	58946720	bv*	242	241	96	1,2-Dichloroethene (to
13	98	86	99	1	54607000	vv	255	254	83	Chloroform
14	83	63	94	1	42866010	bb	270	269	62	1,2-Dichloroethane
15	61	16	99	1	23432320	vv	270	269	43	2-Butanone
	41	0	84	-7	11250	vb	262			
	34	0	84	-19	13000	bb	250			
16	82	57	99	1	80160000	bb*	426	425	114	1,4-Difluorobenzene
17	98	85	99	0	46393000	bb	298	298	97	1,1,1-Trichloroethane
18	99	88	98	0	37337000	vb	306	306	117	Carbon Tetrachloride
19	---------- No Trace Found ----------							288	1	
20	95	79	99	0	46023000	bb	317	317	83	Bromodichloromethane
21	98	84	99	0	43958220	bv	346	346	63	1,2-Dichloropropane
22	94	78	98	0	56982000	bb	351	351	75	cis-1,3-Dichloropropen
23	96	80	99	0	35994230	bv	362	362	130	Trichloroethene -.449✓
24	70	31	99	0	35936000	bb	376	376	129	Dibromochloromethane
25	73	38	99	0	28509510	vb*	378	378	97	1,1,2-Trichloroethane
26	94	79	96	0	112968000	bb	373	373	78	Benzene
27	70	34	97	0	54350100	bv	378	378	75	trans-1,3-dichloroprop
28	---------- No Trace Found ----------							372	1	
29	99	89	99	-1	18703000	bb	433	434	173	Bromoform
30	84	61	99	-1	70412120	bv	534	535	117	Chlorobenzene-d5
31	83	59	99	1	51570860	bv	669	668	95	4-Bromofluorobenzene
32	84	61	99	1	99475770	vv	506	505	98	Toluene-d8
33	99	89	98	1	30704050	vb	443	442	43	4-Methyl-2-Pentanone
34	97	86	98	1	31365330	vb	476	475	43	2-Hexanone
35	84	60	99	1	27962000	bv	482	481	164	Tetrachloroethene
36	64	21	99	0	34446000	vb	482	482	83	1,1,2,2-Tetrachloroeth
	37	4	77	-11	6333	??	471			
	36	4	82	16	11023	??	498			
37	92	75	99	1	118211800	vv	510	509	91	Toluene
38	85	62	99	1	80642730	bv	539	538	112	Chlorobenzene
39	91	73	99	1	47035500	vv	594	593	106	Ethylbenzene
40	93	75	99	0	92777010	bb	711	711	104	Styrene
41	89	72	98	2	53773790	vb	721	719	106	m-Xylene
42	93	80	99	2	107011500	bv	752	750	106	o-/p-Xylene
43	---------- No Trace Found ----------							0	-	

BFBTUNS#1 x1 Bgd=410 27-DEC-91 14:38+0:22:06 EI+
I=605mv TIC=16732000 AV SU Acnt:
Text:12/27/91 _TIME_1347_ BFB1011_AVE_(425-427)



BFBTUNS#1 x1 Bgd=410 27-DEC-91 14:38+0:22:06 VG#2 EI+ 1.1
BpM=95 I=605mv Hm=256 TIC=16732000 AV SU Acnt: Sys:BFB91
Text:12/27/91 _TIME_1347 _ BFB1011_AVE_(425-427)-SPT=0 Cal:

Mass	Abs. Ht	% Mass
36	40000	1.0
37	176000	4.4
38	146000	3.7
39	62000	1.6
41	13000	0.3
42	4000	0.1
43	7000	0.2
44	11000	0.3
45	32000	0.8
47	52000	1.3
48	26000	0.7
49	153000	3.9
50	774000	19.5
51	249000	6.3
52	14000	0.4
55	16000	0.4
56	56000	1.4
57	104000	2.6
59	4000	0.1
60	39000	1.0
61	175000	4.4
62	172000	4.3
63	137000	3.5
64	25000	0.6
67	12000	0.3
68	330000	8.3
69	319000	8.0
70	24000	0.6
71	7000	0.2
72	16000	0.4
73	132000	3.3
74	483000	12.2
75	1533000	38.6
76	144000	3.6
77	26000	0.7
78	9000	0.2
79	38000	1.0
80	18000	0.5
81	45000	1.1
82	6000	0.2
83	7000	0.2
84	4000	0.1
87	148000	3.7
88	105000	2.6
91	11000	0.3
92	89000	2.2
93	136000	3.4
94	386000	9.7
95	3971000	100.0
96	264000	6.6
97	10000	0.3
98	4000	0.1
99	14000	0.4
103	13000	0.3
104	16000	0.4
105	19000	0.5

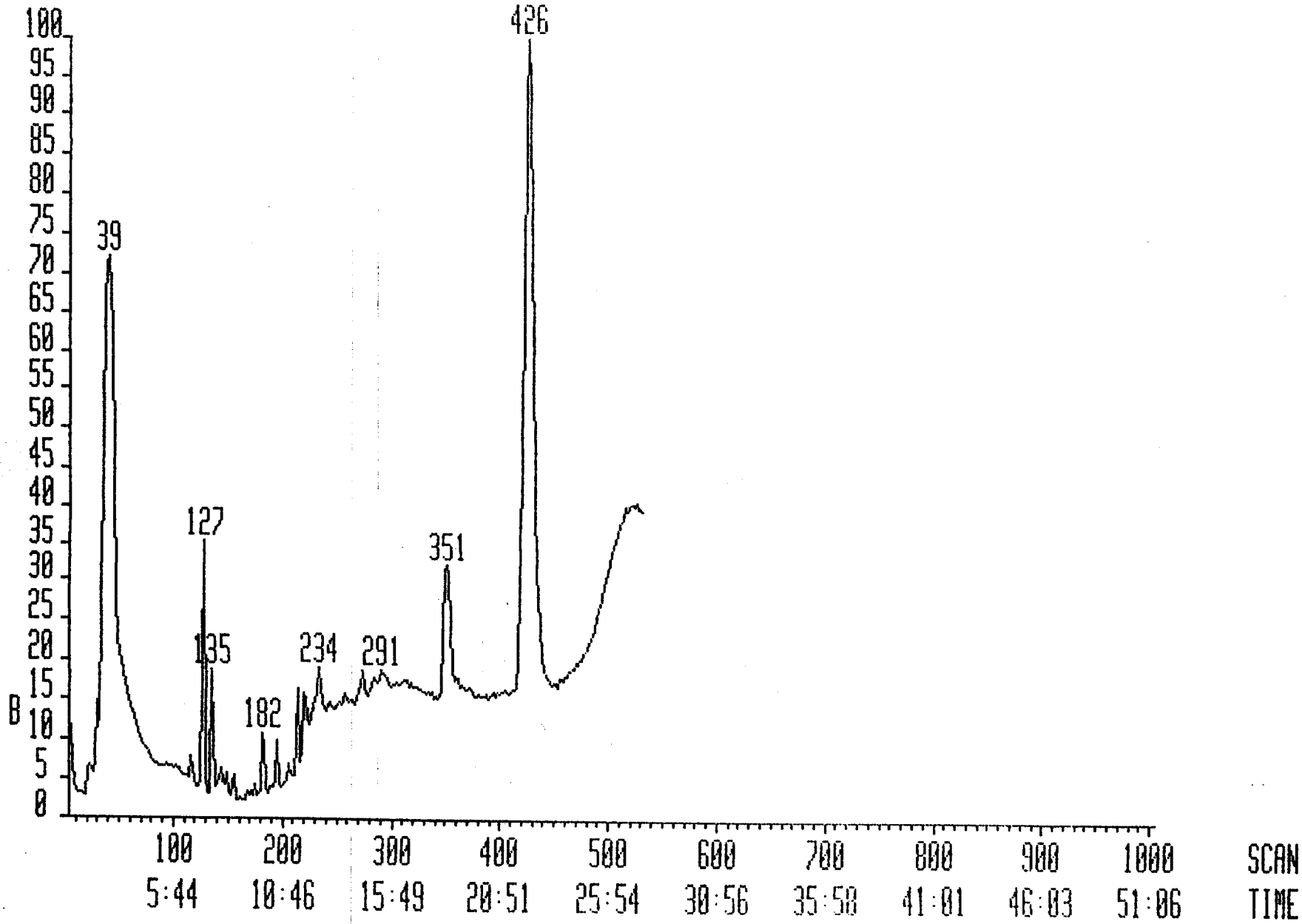
BFBTUNS#1 x1 Bgd=410 27-DEC-91 14:38+0:22:06 VG#2 EI+ 1.3
BpM=95 I=605mv Hm=256 TIC=16732000 AV SU Acnt: Sys:BFB91
Text:12/27/91 _TIME_1347 _ BFB1011_AVE_(425-427)-SPT=0 Cal:

Mass	Abs. Ht	% Mass
106	21000	0.5
107	15000	0.4
112	12000	0.3
115	15000	0.4
116	13000	0.3
117	19000	0.5
118	13000	0.3
119	11000	0.3
121	11000	0.3
128	8000	0.2
130	14000	0.4
131	15000	0.4
133	6000	0.2
135	13000	0.3
141	22000	0.6
143	25000	0.6
147	13000	0.3
148	13000	0.3
149	13000	0.3
173	13000	0.3
174	2588000	65.2
175	183000	4.6
176	2498000	62.9
177	174000	4.4
184	12000	0.3
191	15000	0.4
207	85000	2.1
208	25000	0.6
209	17000	0.4
256	7000	0.2

BFB1011 #5-531 27-DEC-91 13:47 VG#2 (EI+) Sys:BFB91 IHP

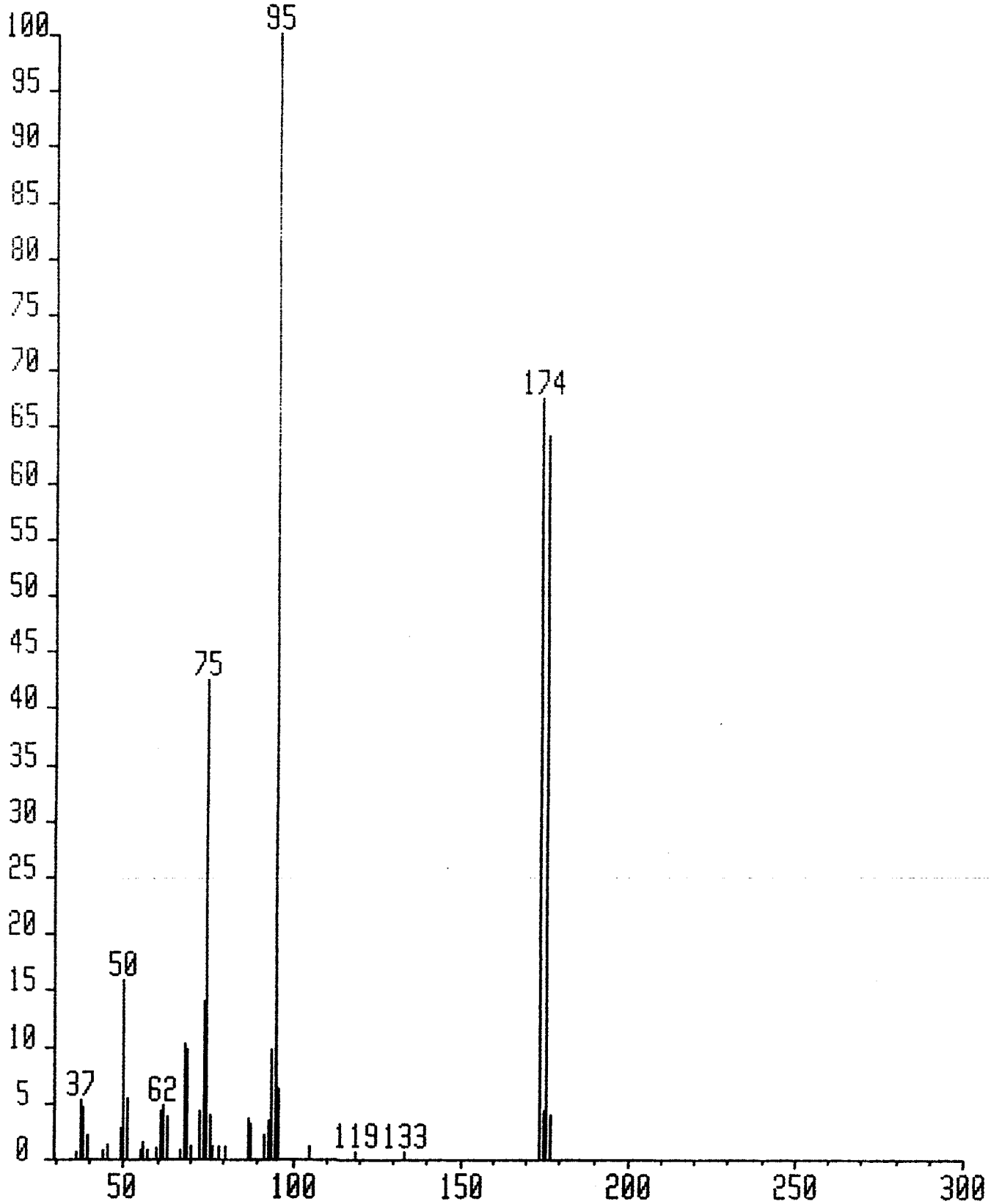
Chromatogram Identifiers : B1:35:260 B: 20407000

Text:



000057

BFBTUNS#1 x1 Bgd=417 14-JAN-92 08:33+0:22:05 EI+
I=315mv TIC=8647000 AV SU Acnt:
Text:01/14/92 _TIME_0751 / BFB4011_AVE_(425-427)



000058

BFBTUNS#1 x1 Bgd=417 14-JAN-92 08:33+0:22:05 VG#2 EI+ 1.1
BpM=95 I=315mv Hm=292 TIC=8647000 AV SU Acnt: Sys:BFB91
Text:01/14/92 _TIME_0751 _ BFB4011_AVE_(425-427)-SPT=0 Cal:

Mass	Abs. Ht	% Mass
36	11000	0.5
37	107000	5.2
38	91000	4.4
39	41000	2.0
41	8000	0.4
42	5000	0.2
44	13000	0.6
45	23000	1.1
47	7000	0.3
48	3000	0.1
49	54000	2.6
50	326000	15.8
51	109000	5.3
55	12000	0.6
56	29000	1.4
57	14000	0.7
60	16000	0.8
61	84000	4.1
62	96000	4.6
63	74000	3.6
64	5000	0.2
67	12000	0.6
68	208000	10.1
69	200000	9.7
70	21000	1.0
72	8000	0.4
73	85000	4.1
74	289000	14.0
75	877000	42.4
76	77000	3.7
77	19000	0.9
78	5000	0.2
79	22000	1.1
80	5000	0.2
81	21000	1.0
87	71000	3.4
88	61000	3.0
91	8000	0.4
92	40000	1.9
93	69000	3.3
94	199000	9.6
95	2066000	100.0
96	127000	6.1
97	4000	0.2
104	3000	0.1
105	19000	0.9
106	5000	0.2
115	5000	0.2
117	7000	0.3
118	3000	0.1
119	11000	0.5
128	6000	0.3
129	3000	0.1
131	3000	0.1
133	11000	0.5
134	3000	0.1

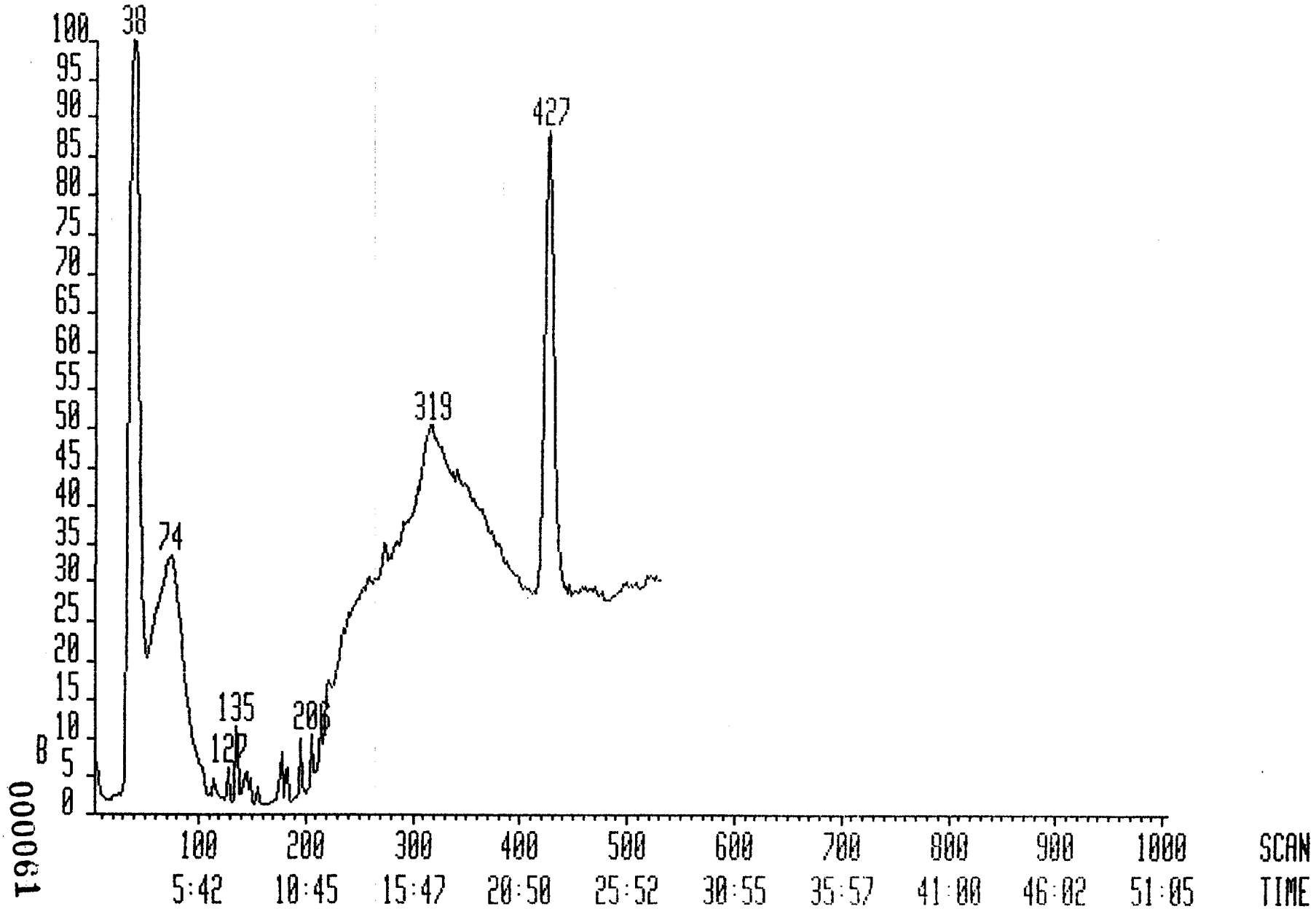
BFBTUNS#1 x1 Bgd=417 14-JAN-92 08:33+0:22:05 VG#2 EI+ 1.2
BpM=95 I=315mv Hm=292 TIC=8647000 AV SU Acnt: Sys:BFB91
Text:01/14/92 _TIME_0751 _ BFB4011_AVE_(425-427)-SPT=0 Cal:

Mass	Abs. Ht	% Mass
141	5000	0.2
143	7000	0.3
153	4000	0.2
157	3000	0.1
174	1392000	67.4
175	84000	4.1
176	1324000	64.1
177	78000	3.8
207	8000	0.4

BFB4011 #5-531 14-JAN-92 07:51 VG#2 (EI+) Sys:BFB91 IHP

Chromatogram Identifiers : B1:35:260 B: 15293000

Text:



000061

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK4

Lab Name: PACIFIC ANALYTICAL Contract:

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

Matrix: (soil/water) WATER Lab Sample ID: VBLK4

Sample wt/vol: 5.0(g/mL) ML Lab File ID: TT1021

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

% Moisture: not dec. 0 Date Analyzed: 01/14/92

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.

VBLK4

Lab Name: PACIFIC ANALYTICAL Contract:

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

Matrix: (soil/water) WATER Lab Sample ID: VBLK4

Sample wt/vol: 5.0(g/mL) ML Lab File ID: TT1021

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

% Moisture: not dec. 0 Date Analyzed: 01/14/92

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

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

Number TICs found: 0

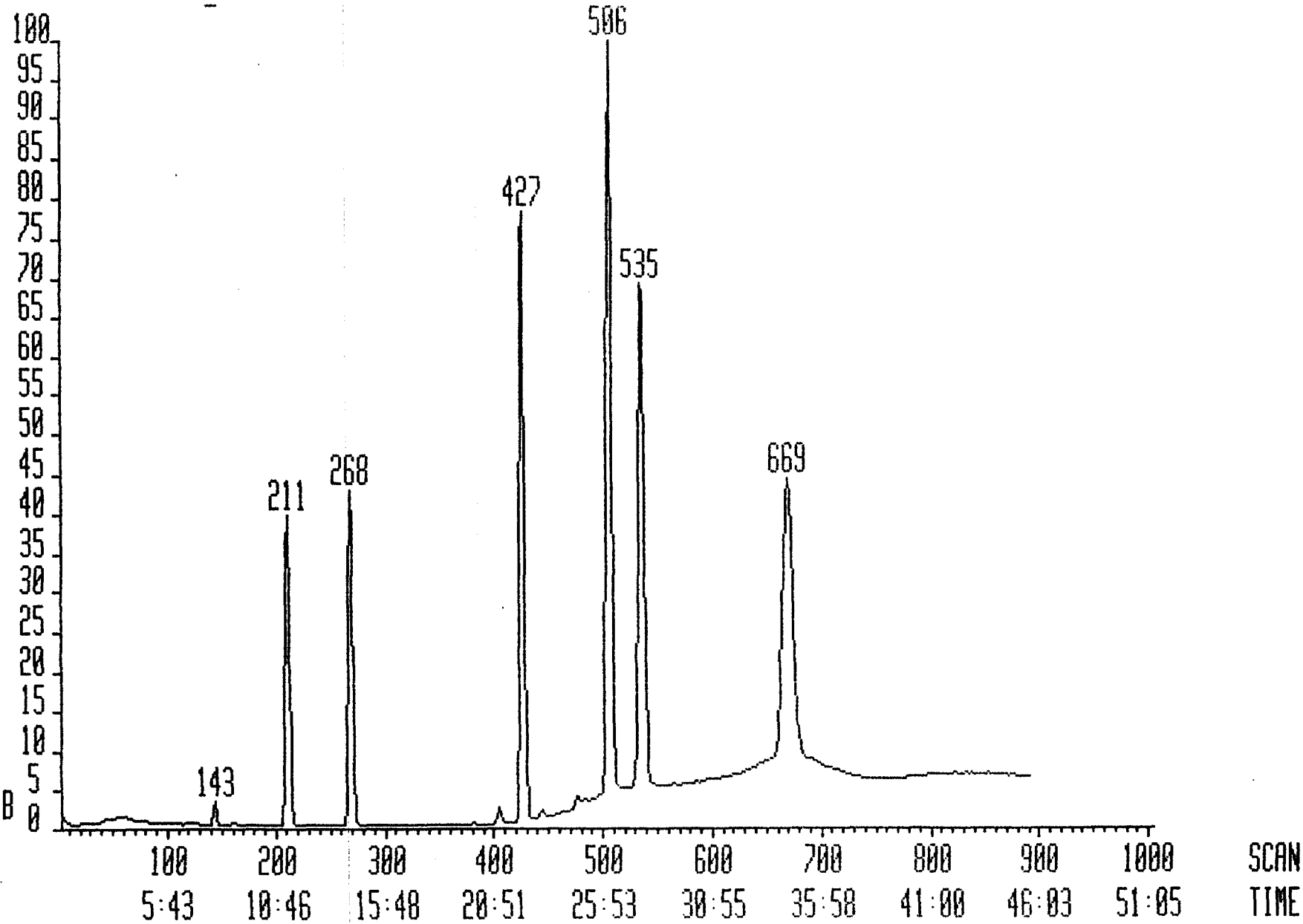
CONCENTRATION UNITS:
(ug/L or ug/Kg)ug/L

	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.					

TT1021 #5-890 14-JAN-92 09:37 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 59132000

Text:BLANK4_ VBLK4



000064

Interim Report Sample Analysis 14-JAN-92 11:26:37

Datafile: TT1021 14-JAN-92 09:37
Database: VOA91K
Library: VOA91

Instrument: VG#2
Account:
Text: BLANK4_ VBLK4

QRE KD 11/4/92

No.	Rank	Spectrum Match	Scan Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	100	93	99	1	13089000	bb	211	210	128	Bromochloromethane
2	100	89	99	0	34719000	bv	268	268	65	1,2-Dichloroethane-d4
3	40	0	74	0	6000	bb	26	26	50	Chloromethane
4	----------	No	Trace	Found	----------			53	94	Bromomethane
5	----------	No	Trace	Found	----------			73	62	Vinyl Chloride
6	----------	No	Trace	Found	----------			96	64	Chloroethane
7	98	87	98	-1	1741000	bb	143	144	84	Methylene Chloride
8	83	61	99	-2	808410	bv	160	162	43	Acetone
	53	15	95	7	144231	??	169			
9	60	38	76	1	160000	bb	176	175	76	Carbon Disulfide
10	34	1	62	0	3000	bb	202	202	96	1,1-Dichloroethene
	9	0	20	9	5000	bb	211			
11	36	0	88	-18	96000	bb	211	229	63	1,1-Dichloroethane
	31	1	68	12	11000	bb	241			
	30	1	68	14	11000	bb	243			
12	----------	No	Trace	Found	----------			243	96	1,2-Dichloroethene (to
13	41	8	70	-1	29000	bb	255	256	83	Chloroform
14	21	14	26	-2	6000	bb	269	271	62	1,2-Dichloroethane
15	40	3	84	-10	12000	?b*	261	271	43	2-Butanone
	38	3	84	-14	19000	??	257			
	36	5	84	18	29000	vb	289			
16	83	59	99	-1	77711000	bb*	427	428	114	1,4-Difluorobenzene
17	41	4	72	0	9000	bb	299	299	97	1,1,1-Trichloroethane
18	----------	No	Trace	Found	----------			307	117	Carbon Tetrachloride
19	----------	No	Trace	Found	----------			288	1	
20	----------	No	Trace	Found	----------			318	83	Bromodichloromethane
21	----------	No	Trace	Found	----------			347	63	1,2-Dichloropropane
22	----------	No	Trace	Found	----------			352	75	cis-1,3-Dichloropropen
23	39	1	71	0	1000	bb	363	363	130	Trichloroethene
24	----------	No	Trace	Found	----------			377	129	Dibromochloromethane
25	52	12	85	0	24000	bb	379	379	97	1,1,2-Trichloroethane
26	44	12	71	-1	62000	bb	373	374	78	Benzene
27	30	8	50	3	175000	bb	382	379	75	trans-1,3-dichloroprop
28	----------	No	Trace	Found	----------			372	1	
29	24	1	44	-1	6000	bb	433	434	173	Bromoform
30	91	71	99	0	67925470	vv	535	535	117	Chlorobenzene-d5
31	82	57	99	-1	48780330	vv	669	670	95	4-Bromofluorobenzene
32	82	61	95	-1	94237080	vv	506	507	98	Toluene-d8
33	83	59	96	0	939405	vv	444	444	43	4-Methyl-2-Pentanone
34	79	54	93	0	1476883	vv	477	477	43	2-Hexanone
	49	28	73	7	38412	??	484			
35	27	4	48	-1	2000	bb	482	483	164	Tetrachloroethene
36	59	13	97	0	442812	vb	483	483	83	1,1,2,2-Tetrachloroeth
	43	4	82	5	3294	??	488			
	42	4	83	7	2333	??	490			
37	50	5	88	0	422804	vv	511	511	91	Toluene
	36	3	70	6	22435	??	517			
	35	3	71	9	26196	??	520			
38	32	1	66	8	1429	??	548	540	112	Chlorobenzene

TT 1021

	32	1	69	-11	6517	??	529			
	31	1	66	10	1600	??	550			
39	44	6	77	-1	31000	v?	594	595	106	Ethylbenzene
	42	5	76	2	18000	?b	597			
	35	4	71	-9	4000	??	586			
40	22	4	38	0	23125	??	712	712	104	Styrene
	22	4	39	2	23125	??	714			
	22	4	40	6	12667	?v	718			
41	45	5	80	0	69000	bv	722	722	106	m-Xylene
	45	5	81	2	69000	bv	724			
	39	5	77	9	9000	??	731			
42	48	8	81	0	52714	b?	753	753	106	o-/p-Xylene
	46	8	81	3	94964	b?	756			
	41	7	79	8	11750	?b	761			
43	---------- No Trace Found ----------							0	-	

Report File: TIC
Data File: TT1021

TIC Scan	TIC Bkg	TIC Area	TIC Amount	Nearest IS
~~645~~		2782	11	535
~~58~~		1409	12	211

KD
QWA
1/14/91

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

INFLU-1MS

Lab Name: PACIFIC ANALYTICAL Contract:

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

Matrix: (soil/water) WATER Lab Sample ID: 06213

Sample wt/vol: 5.0(g/mL) ML Lab File ID: TT2021

Level: (low/med) LOW Date Received: 01/09/92

% Moisture: not dec. 0 Date Analyzed: 01/14/92

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

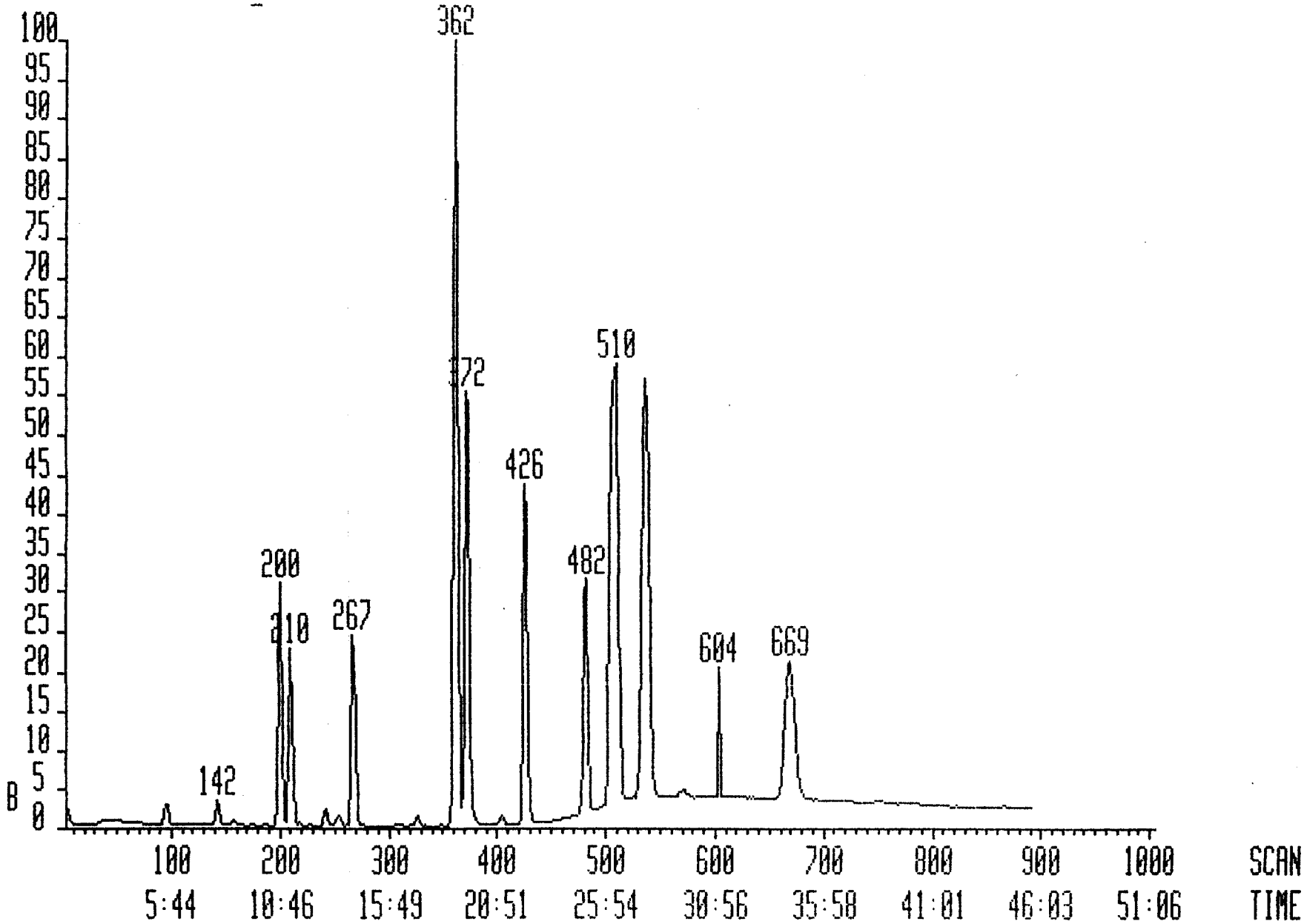
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

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	44	
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	120	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	49	
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	38	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	52	
108-90-7	Chlorobenzene	52	
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

TT2021 #5-890 14-JAN-92 12:36 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 97300000

Text:INFLU-1MS_ 06213



690000

Interim Report Sample Analysis 14-JAN-92 13:48:09

Datafile: TT2021 14-JAN-92 12:36
Database: VOA91K
Library: VOA91

Instrument: VG#2
Account:
Text: INFLU-1MS_ 06213

OPE 11/14/92 KD

No.	Rank	Spectrum Match	Scan Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	100	93	99	0	12714000	bb	210	210	128	Bromochloromethane
2	100	89	99	0	32880000	bv	267	267	65	1,2-Dichloroethane-d4
3	40	0	74	0	7000	bb	26	26	50	Chloromethane
4	----------	No	Trace	Found	----------			53	94	Bromomethane
5	----------	No	Trace	Found	----------			73	62	Vinyl Chloride
6	----------	No	Trace	Found	----------			96	64	Chloroethane
7	99	89	99	-1	2941000	bb	142	143	84	Methylene Chloride
8	87	73	99	-4	1575667	bv*	157	161	43	Acetone
9	47	25	64	1	62000	bb	175	174	76	Carbon Disulfide
10	98	86	99	-1	20764000	bv	200	201	96	1,1-Dichloroethene
11	70	37	96	-1	194000	bb	227	228	63	1,1-Dichloroethane
12	98	86	99	-1	1643000	bb	241	242	96	1,2-Dichloroethene (to
13	97	85	98	-1	2000000	bb	254	255	83	Chloroform
14	26	17	31	0	87000	bb	270	270	62	1,2-Dichloroethane
15	52	0	97	0	186622	vb	270	270	43	2-Butanone
	48	4	98	-9	23973	vv	261			
	40	1	84	10	1081	?b	280			
16	84	58	99	0	70320000	bb	426	426	114	1,4-Difluorobenzene
17	48	12	79	-1	33000	bb	297	298	97	1,1,1-Trichloroethane
18	39	2	72	-1	5000	bb	305	306	117	Carbon Tetrachloride
19	----------	No	Trace	Found	----------			288	1	
20	----------	No	Trace	Found	----------			317	83	Bromodichloromethane
21	23	10	41	-13	91000	bb	333	346	63	1,2-Dichloropropane
	19	1	43	16	157000	bb	362			
22	----------	No	Trace	Found	----------			351	75	cis-1,3-Dichloropropen
23	95	81	99	-1	75579000	bb	361	362	130	Trichloroethene 119.68
24	17	0	37	9	1000	bb	385	376	129	Dibromochloromethane
	15	1	34	-14	143000	bb	362			
25	80	56	94	0	1060000	vb	378	378	97	1,1,2-Trichloroethane
26	96	85	96	-1	97370310	bv	372	373	78	Benzene
27	34	11	57	4	305000	vb	382	378	75	trans-1,3-dichloroprop
	27	8	47	-6	1737000	bv	372			
28	----------	No	Trace	Found	----------			372	1	
29	----------	No	Trace	Found	----------			433	173	Bromoform
30	84	59	99	0	54774340	vv	534	534	117	Chlorobenzene-d5
31	83	57	99	0	40112860	vv	669	669	95	4-Bromofluorobenzene
32	84	61	98	-1	79269110	vv	505	506	98	Toluene-d8
33	55	23	80	0	3273	??	443	443	43	4-Methyl-2-Pentanone
	53	22	80	2	9091	??	445			
	51	22	79	4	7800	??	447			
34	55	25	78	0	0	??	476	476	43	2-Hexanone
	46	23	75	-9	21138	??	467			
	45	23	75	-11	12880	??	465			
35	94	80	99	-1	16417000	bb	481	482	164	Tetrachloroethene
36	45	0	86	1	291949	vv*	483	482	83	1,1,2,2-Tetrachloroeth
	42	2	84	6	4538	??	488			
	40	2	85	10	1186	??	492			
37	93	75	99	0	95457460	vv	510	510	91	Toluene
38	82	56	99	-1	65255680	bv	538	539	112	Chlorobenzene

000070

39	45	8	76	0	59000	vv	594	594	106	Ethylbenzene TT2021
	37	6	69	-6	5000	??	588			
	36	6	69	8	4000	??	602			
40	32	5	54	0	14000	??	711	711	104	Styrene
	31	5	55	2	5000	??	713			
	31	5	56	5	20000	?b	716			
41	48	11	79	1	49500	??	722	721	106	m-Xylene
	46	10	77	-1	25214	??	720			
	45	10	78	3	42714	?v	724			
42	46	10	78	1	54571	?v	753	752	106	o-/p-Xylene
	45	9	78	-2	63143	v?	750			
	42	9	76	-6	17000	v?	746			
43	---------- No Trace Found ----------							0	-	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

INFLU-1MSD

Lab Name: PACIFIC ANALYTICAL Contract:

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

Matrix: (soil/water) WATER Lab Sample ID: 06213

Sample wt/vol: 5.0(g/mL) ML Lab File ID: TT2031

Level: (low/med) LOW Date Received: 01/09/92

% Moisture: not dec. 0 Date Analyzed: 01/14/92

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

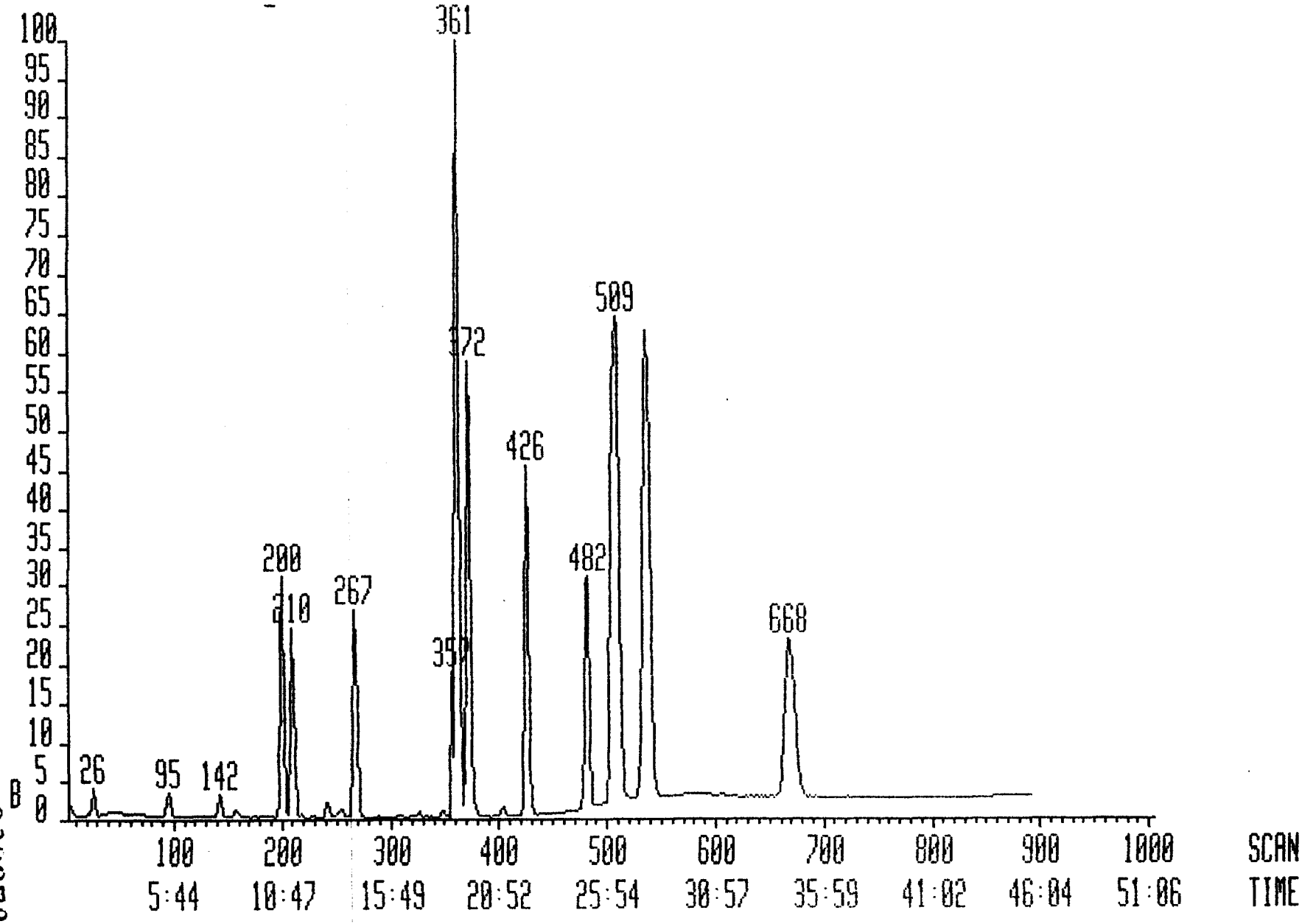
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

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	43	
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	120	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	50	
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	33	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	49	
108-90-7	Chlorobenzene	49	
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

TT2031 #5-890 14-JAN-92 13:30 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 93859000

Text:INFLU-1MSD_ 06213



000073

Interim Report Sample Analysis 14-JAN-92 14:57:34

Datafile: TT2031 14-JAN-92 13:30
Database: VOA91K
Library: VOA91

Instrument: VG#2
Account:
Text: INFLU-1MSD_ 06213

QRE 1/14/92 KD

No.	Rank	Spectrum Match	Fit	Scan Diff	Peak Area	Flgs	Scan Found	Pred	Quan m/z	Compound Name
1	100	93	99	0	12602000	bv	210	210	128	Bromochloromethane
2	100	88	99	0	33850000	bv	267	267	65	1,2-Dichloroethane-d4
3	94	76	99	0	6109000	bb	26	26	50	Chloromethane
4	21	0	40	2	2000	bb	55	53	94	Bromomethane
	19	0	40	10	1000	bb	63			
	17	0	40	16	3000	bb	69			
5	---------- No Trace Found ----------							73	62	Vinyl Chloride
6	---------- No Trace Found ----------							96	64	Chloroethane
7	98	87	98	-1	2675000	bb	142	143	84	Methylene Chloride
8	88	73	99	-3	2289700	bv*	158	161	43	Acetone
9	59	34	78	1	174000	bb	175	174	76	Carbon Disulfide
10	98	86	99	-1	19910000	bv	200	201	96	1,1-Dichloroethene
11	68	34	94	-1	180000	bb	227	228	63	1,1-Dichloroethane
12	99	86	99	0	1547000	bb	242	242	96	1,2-Dichloroethene (to
13	96	84	98	-1	1636000	bb	254	255	83	Chloroform
14	24	16	29	-1	95000	bb	269	270	62	1,2-Dichloroethane
15	52	2	97	1	281520	vv	271	270	43	2-Butanone
	50	9	99	-10	39240	bv	260			
	43	22	84	18	155000	bb	288			
16	84	59	98	0	68148000	bb	426	426	114	1,4-Difluorobenzene
17	32	3	57	-1	9000	bb	297	298	97	1,1,1-Trichloroethane
18	35	1	66	-1	4000	bb	305	306	117	Carbon Tetrachloride
19	---------- No Trace Found ----------							288	1	
20	---------- No Trace Found ----------							317	83	Bromodichloromethane
21	19	2	43	16	131000	bb	362	346	63	1,2-Dichloropropane
	19	7	35	-13	81000	bb	333			
22	---------- No Trace Found ----------							351	75	cis-1,3-Dichloropropen
23	95	81	99	-1	70405000	bb	361	362	130	Trichloroethene
24	16	1	35	-15	139000	bb	361	376	129	Dibromochloromethane
25	81	57	94	0	1026000	vb	378	378	97	1,1,2-Trichloroethane
26	96	85	96	-1	95597250	bv	372	373	78	Benzene
27	35	9	61	4	155000	vb	382	378	75	trans-1,3-dichloroprop
	27	8	47	-6	1697000	bv	372			
28	---------- No Trace Found ----------							372	1	
29	---------- No Trace Found ----------							433	173	Bromoform
30	86	61	99	0	61696800	vv	534	534	117	Chlorobenzene-d5
31	84	61	99	-1	44794120	vv	668	669	95	4-Bromofluorobenzene
32	86	61	99	0	84846620	vv	506	506	98	Toluene-d8
33	58	28	80	0	0	??	443	443	43	4-Methyl-2-Pentanone
	57	29	81	2	12062	??	445			
	54	28	79	4	2471	??	447			
34	60	33	79	0	0	??	476	476	43	2-Hexanone
	52	31	76	-7	35806	??	469			
	47	30	76	-13	12500	??	463			
35	96	82	99	-1	16128000	bb	481	482	164	Tetrachloroethene
36	44	0	83	0	293000	vb	482	482	83	1,1,2,2-Tetrachloroeth
	44	3	86	6	4700	??	488			
	43	2	86	-6	0	??	476			
37	94	77	99	0	101748100	vv	510	510	91	Toluene

115.046

000074

38	82	57	99	-1	69288940	bv	538	539	112	Chlorobenzene
39	47	8	80	0	84000	bb	594	594	106	Ethylbenzene
	34	5	66	8	1000	??	602			
	33	5	67	11	1000	??	605			
40	25	3	46	4	11000	vb	715	711	104	Styrene
	25	2	44	0	11000	bv	711			
	21	2	43	-9	2000	bb	702			
41	46	8	80	-1	105000	vb	720	721	106	m-Xylene
	35	5	70	-10	3000	b?	711			
	33	5	69	-13	2000	??	708			
42	46	8	80	-1	57600	b?	751	752	106	o-/p-Xylene
	46	8	80	1	47133	?v	753			
	45	8	80	-3	32500	b?	749			
43	---------- No Trace Found ----------							0		-

TT2031