Pacific Analytical 09/16/92

P A Reference: 283

Hadley Industries

Samples:

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

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 also good for all analyses.

All samples and the blank contained trace levels of 1,1-dichloroethene. This compound has recently been detected as a laboratory contaminant.

No spectra for the identified target compounds is included in this report because the raw data files could not be restored from the tape on which they had been stored. No tentatively identified compounds were present in the samples or blank.

Lee Helms for

Elana Colby
Senior 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	VBLK07	101	97	95		0
02						
03						
04						
05						
06	EFFLUENT	102	100	99		0
07	BETWEEN	103	96	94		0
08	INFLUENT	103	100	101		0
09	PS#4	105	102	97		0
10	PS#3	105	101	100		0
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

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK07

Lab Name: PACIFIC ANALYTICAL Contract: D10098

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

Lab File ID: MM2031 Lab Sample ID: 00000

Date Analyzed: 08/15/92 Time Analyzed: 1154

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				
02				
03				
04				
05	EFFLUENT	28303	MM2081	1645
06	BETWEEN	28302	MM2091	1737
07	INFLUENT	28301	MM2101	1829
08	PS#4	28304	MM2111	1921
09	PS#3	28305	MM2121	2013
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					

page _1 of _1

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: MM2011 BFB Injection Date: 08/15/92

Instrument ID: VG#2 BFB Injection Time: 1011

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	18.8
75	30.0 - 66.0% of mass 95	47.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	72.7
175	4.0 - 9.0% of mass 174	4.5 (6.2)1
176	93.0 - 101.0% of mass 174	71.0 (97.8)1
177	5.0 - 9.0% of mass 176	4.1 (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	MM2021	08/15/92	1057
02	VBLK07	00000	MM2031	08/15/92	1154
03					
04					
05					
06					
07	EFFLUENT	28303	MM2081	08/15/92	1645
08	BETWEEN	28302	MM2091	08/15/92	1737
09	INFLUENT	28301	MM2101	08/15/92	1829
10	PS#4	28304	MM2111	08/15/92	1921
11	PS#3	28305	MM2121	08/15/92	2013
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

page _1 of _1

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): MM2021 Date Analyzed: 08/15/92

Instrument ID: VG#2 Time Analyzed: 1057

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	7116000	12.35	35644001	23.18	30868000	29.13
	UPPER LIMIT	14232000	12.85	71288002	23.68	61736001	29.63
	LOWER LIMIT	3558000	11.85	17822000	22.68	15434000	28.63
	EPA SAMPLE NO.						
01	VBLK07	4889000	12.38	22410000	23.23	19990000	29.18
02							
03							
04							
05							
06	EFFLUENT	7496000	12.35	37401001	23.18	32410998	29.18
07	BETWEEN	7714000	12.33	36624001	23.18	32854000	29.18
08	INFLUENT	7597000	12.30	36880001	23.20	32473262	29.15
09	PS#4	7445000	12.33	36196001	23.17	31536912	29.12
10	PS#3	7517000	12.32	37476001	23.15	32902000	29.10
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.

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) WATER Lab Sample ID: 28301

Sample wt/vol: 5.0(g/mL) mL Lab File ID: MM2101

Level: (low/med) LOW Date Received: 08/07/92

% Moisture: not dec. Date Analyzed: 08/15/92

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

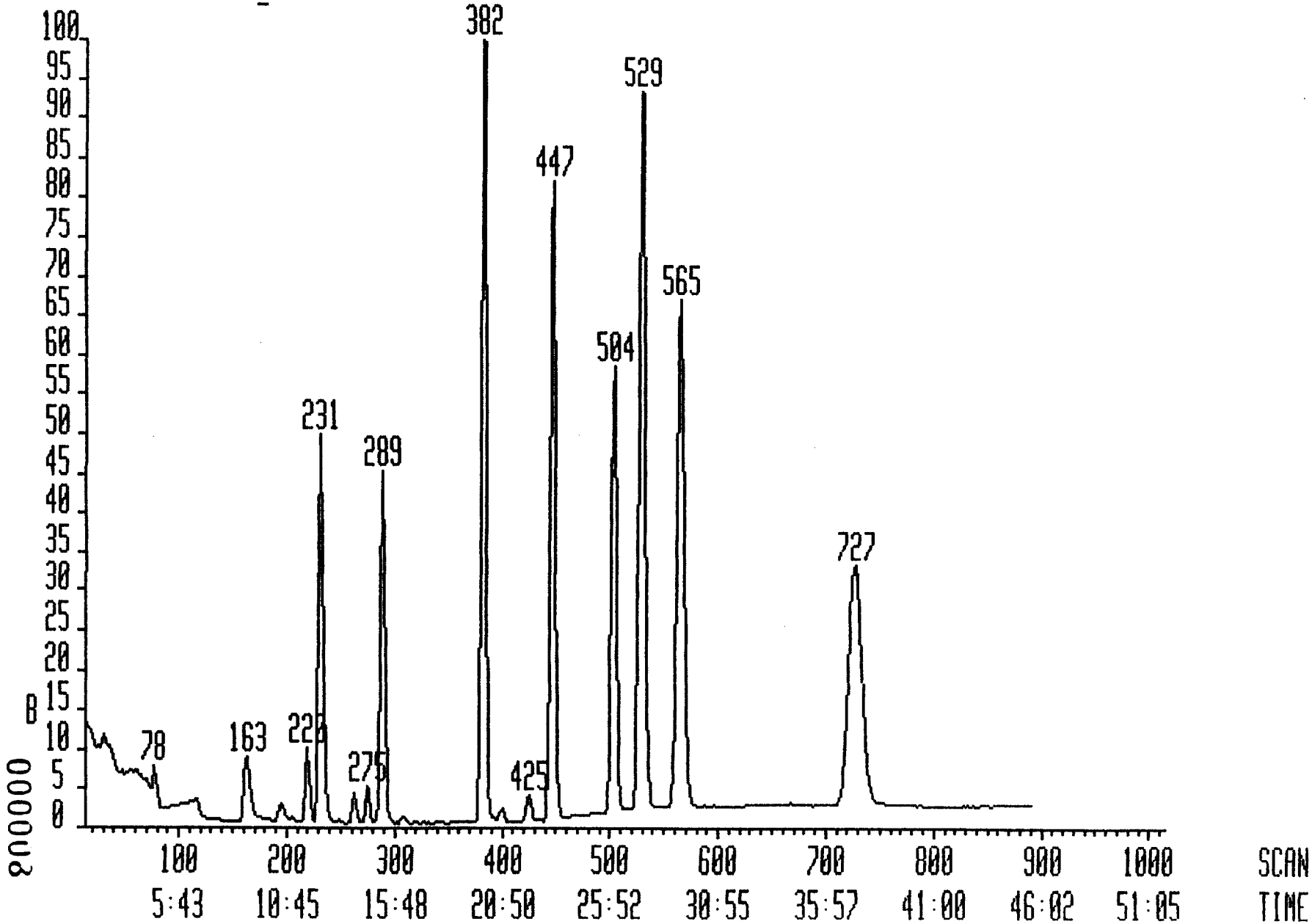
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	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	
67-64-1	Acetone	6	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	6	J
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	57	
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

MM2101 #15-891 15-AUG-92 18:29 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 21551000

Text:INFLUENT_ 28301



Interim Report Sample Analysis 16-AUG-92 22:05:02

Datafile: MM2101 15-AUG-92 18:29
Database: VOA91M
Library: VOA91

QRE
M.D.
9/10/92

Instrument: VG#2
Account: VG#2
Text: INFLUENT_ 28301

No.	Rank	Spectrum Match	Fit	Scan Diff	Peak Area	Flgs	Scan Found	Pred	Quan m/z	Compound Name
1	98	92	99	-3	7597000	bv	231	234	128	Bromochloromethane
2	97	85	98	-1	13429000	bb*	289	290	65	1,2-Dichloroethane-d4
3	51	0	97	-1	29000	bb*	30	31	50	Chloromethane
	41	0	96	15	19000	b?	46			
	39	0	93	17	7000	?b	48			
4	50	2	92	-1	14000	v?	65	66	94	Bromomethane
	45	2	90	7	4138	??	73			
	45	2	87	5	0	??	71			
5	41	0	77	0	3000	bb	86	86	62	Vinyl Chloride
	34	0	77	13	3000	bb	99			
6	33	1	63	-2	6000	bb	112	114	64	Chloroethane
7	97	87	99	-2	3100000	bb	163	165	84	Methylene Chloride
8	69	44	99	-8	350846	bv	175	183	43	Acetone
	68	31	97	0	250718	??	183			
	62	25	98	4	92462	?v	187			
9	97	84	99	-1	2491000	bb	195	196	76	Carbon Disulfide
10	96	83	99	-1	2079000	bb	220	221	96	1,1-Dichloroethene
11	61	20	99	-3	89000	bb*	248	251	63	1,1-Dichloroethane
	33	5	68	12	316000	bb	263			
12	93	79	99	-2	984000	bb	262	264	96	1,2-Dichloroethene (to
13	70	37	98	-2	775000	bb	276	278	83	Chloroform
14	27	17	34	-2	51000	bb	291	293	62	1,2-Dichloroethane
15	54	31	99	17	301000	bb	308	291	43	2-Butanone
	51	1	99	-3	474000	bv	288			
	48	15	98	-16	640000	bb	275			
16	84	60	99	-1	36880000	bv	447	448	114	1,4-Difluorobenzene
17	47	16	75	-2	47000	bb	319	321	97	1,1,1-Trichloroethane
18	39	7	66	-1	8000	bb	329	330	117	Carbon Tetrachloride
19	---------- No Trace Found ----------							0	1	
20	---------- No Trace Found ----------							340	83	Bromodichloromethane
21	21	1	47	13	34000	bb	382	369	63	1,2-Dichloropropane
22	---------- No Trace Found ----------							374	75	cis-1,3-Dichloropropen
23	94	81	99	-2	18743000	bv	382	384	130	Trichloroethene
24	16	1	37	-18	48000	bb	382	400	129	Dibromochloromethane
25	79	55	94	-1	349000	vb	401	402	97	1,1,2-Trichloroethane
26	49	16	77	-1	108000	bb	393	394	78	Benzene
27	---------- No Trace Found ----------							401	75	trans-1,3-dichloroprop
28	---------- No Trace Found ----------							0	1	
29	---------- No Trace Found ----------							459	173	Bromoform
30	91	73	99	-1	32473260	bv	565	566	117	Chlorobenzene-d5
31	84	64	99	-3	19998950	bv	727	730	95	4-Bromofluorobenzene
32	83	65	95	-2	45147380	bv	529	531	98	Toluene-d8
33	57	23	83	0	12821	??	466	466	43	4-Methyl-2-Pentanone
	54	23	83	-3	3000	??	463			
	54	25	82	4	8903	??	470			
34	57	26	84	-2	6929	??	497	499	43	2-Hexanone
	56	26	85	-4	5857	??	495			
	54	27	84	-7	22375	??	492			
35	96	83	99	-1	8478000	bb	504	505	164	Tetrachloroethene
36	42	0	83	-4	159000	bb	505	509	83	1,1,2,2-Tetrachloroeth

000009

	41	3	78	5	2000	??	514			
	36	2	73	8	6000	??	517			
37	52	7	91	0	292000	bb	536	536	91	Toluene
38	35	1	66	1	22000	?b	572	571	112	Chlorobenzene
	27	0	62	15	3000	bb	586			
	25	0	62	-18	14000	bb	553			
39	35	3	66	-4	4000	bb	634	638	106	Ethylbenzene
	33	3	60	-2	11000	bb	636			
40	49	10	85	-3	105000	??	776	779	104	Styrene
	49	9	83	-1	53000	??	778			
	46	8	80	1	142000	?v	780			
41	31	4	59	-6	3000	bb	785	791	106	m-Xylene
	29	4	56	-8	3000	bb	783			
42	24	2	47	-6	3000	bb	821	827	106	o-/p-Xylene
43	---------- No Trace Found ----------							0	-	

MM2101

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) WATER Lab Sample ID: 28302

Sample wt/vol: 5.0(g/mL) mL Lab File ID: MM2091

Level: (low/med) LOW Date Received: 08/07/92

% Moisture: not dec. Date Analyzed: 08/15/92

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

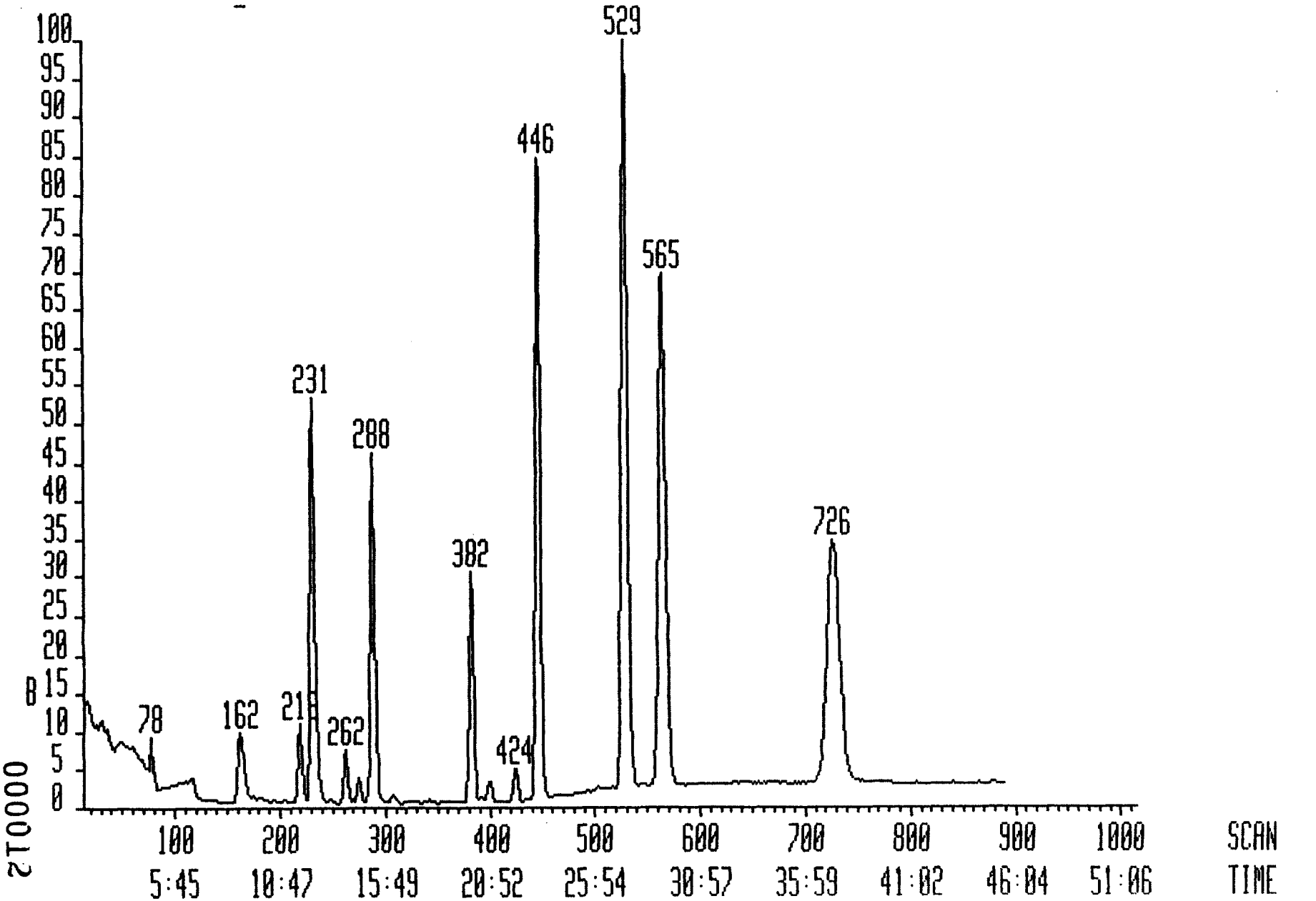
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	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	
67-64-1	Acetone	10	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	6	J
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	16	
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

MM2091 #15-889 15-AUG-92 17:37 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 20738000

Text:BETWEEN_ 28302



000012

Interim Report Sample Analysis 16-AUG-92 22:00:12

Datafile: MM2091 15-AUG-92 17:37
Database: VOA91M
Library: VOA91

Instrument: VG#2
Account: VG#2
Text: BETWEEN_ 28302

QRE
M.Y.
9/10/92

No.	Rank	Spectrum Match	Fit	Scan Diff	Peak Area	Flgs	Scan Found	Pred	Quan m/z	Compound Name
1	98	92	99	-3	7714000	bb	231	234	128	Bromochloromethane
2	95	85	98	-2	12759000	bv	288	290	65	1,2-Dichloroethane-d4
3	52	0	97	0	20000	?b	31	31	50	Chloromethane
	51	0	97	-2	15000	b?	29			
	41	0	89	10	6000	bb	41			
4	48	2	91	-3	10296	v?*	63	66	94	Bromomethane
	45	2	87	5	258	??	71			
	44	3	88	8	2371	??	74			
5	40	0	77	3	3000	bb	89	86	62	Vinyl Chloride
	33	0	77	15	6000	bb	101			
6	33	0	63	1	3000	bb	115	114	64	Chloroethane
7	95	86	99	-3	3127000	bb	162	165	84	Methylene Chloride
8	71	40	97	-2	627250	vv*	181	183	43	Acetone
	69	44	99	-8	372455	bv	175			
	49	8	99	11	6341	??	194			
9	71	45	90	-1	249000	bb	195	196	76	Carbon Disulfide
10	95	83	99	-2	2103000	bv	219	221	96	1,1-Dichloroethene
11	60	20	99	-4	82000	bb	247	251	63	1,1-Dichloroethane
	33	5	68	11	510000	bb	262			
12	94	82	99	-2	1639000	bb	262	264	96	1,2-Dichloroethene (to
13	81	59	99	-3	873000	bb	275	278	83	Chloroform
14	27	17	34	-2	50000	bb	291	293	62	1,2-Dichloroethane
15	55	33	99	17	335000	bb*	308	291	43	2-Butanone
	52	1	99	-2	452000	vb	289			
	45	8	99	-17	197000	bv	274			
16	82	59	99	-2	36624000	bv*	446	448	114	1,4-Difluorobenzene
17	45	11	75	-2	31000	bb	319	321	97	1,1,1-Trichloroethane
18	38	7	67	-3	16000	bb	327	330	117	Carbon Tetrachloride
19	---------- No Trace Found ----------							0	1	
20	---------- No Trace Found ----------							340	83	Bromodichloromethane
21	---------- No Trace Found ----------							369	63	1,2-Dichloropropane
22	---------- No Trace Found ----------							374	75	cis-1,3-Dichloropropen
23	93	80	99	-2	5237000	bb	382	384	130	Trichloroethene
24	15	1	35	-18	4000	bb	382	400	129	Dibromochloromethane
25	81	61	94	-2	467000	bb	400	402	97	1,1,2-Trichloroethane
26	44	14	70	-1	88000	bb	393	394	78	Benzene
27	---------- No Trace Found ----------							401	75	trans-1,3-dichloroprop
28	---------- No Trace Found ----------							0	1	
29	---------- No Trace Found ----------							459	173	Bromoform
30	91	73	99	-1	32854000	bv*	565	566	117	Chlorobenzene-d5
31	84	63	99	-2	~~11191720~~ ?v		728	730	95	4-Bromofluorobenzene
	83	64	99	-4	10441090	b?	726		19379840	
32	83	64	95	-2	45546250	bv	529	531	98	Toluene-d8
33	58	26	86	-2	9552	??	464	466	43	4-Methyl-2-Pentanone
	56	24	81	0	5276	??	466			
	55	24	81	2	7000	??	468			
34	59	28	86	3	106750	??	502	499	43	2-Hexanone
	57	24	84	-1	14500	??	498			
	56	27	84	5	106750	??	504			
35	---------- No Trace Found ----------							505	164	Tetrachloroethene

000013

36	39	2	79	-8	12000	??	501	509	83	1,1,2,2-Tetrachloroeth
	39	2	79	8	3000	??	517			
	26	1	49	-3	11000	??	506			
37	49	4	89	-1	225000	bb	535	536	91	Toluene
38	32	1	63	4	13000	?b	575	571	112	Chlorobenzene
	31	0	62	6	3000	?b	577			
	28	0	60	9	3000	bb	580			
39	35	3	65	-3	6000	bb	635	638	106	Ethylbenzene
40	47	9	83	-3	59914	??	776	779	104	Styrene
	47	8	81	1	85629	??	780			
	45	8	80	3	24086	??	782			
41	---------- No Trace Found ----------							791	106	m-Xylene
42	33	4	59	-2	3000	bb	825	827	106	o-/p-Xylene
	31	3	58	-4	3000	bb	823			
43	---------- No Trace Found ----------							0	-	

MM2091

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) WATER Lab Sample ID: 28303

Sample wt/vol: 5.0(g/mL) mL Lab File ID: MM2081

Level: (low/med) LOW Date Received: 08/07/92

% Moisture: not dec. Date Analyzed: 08/15/92

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

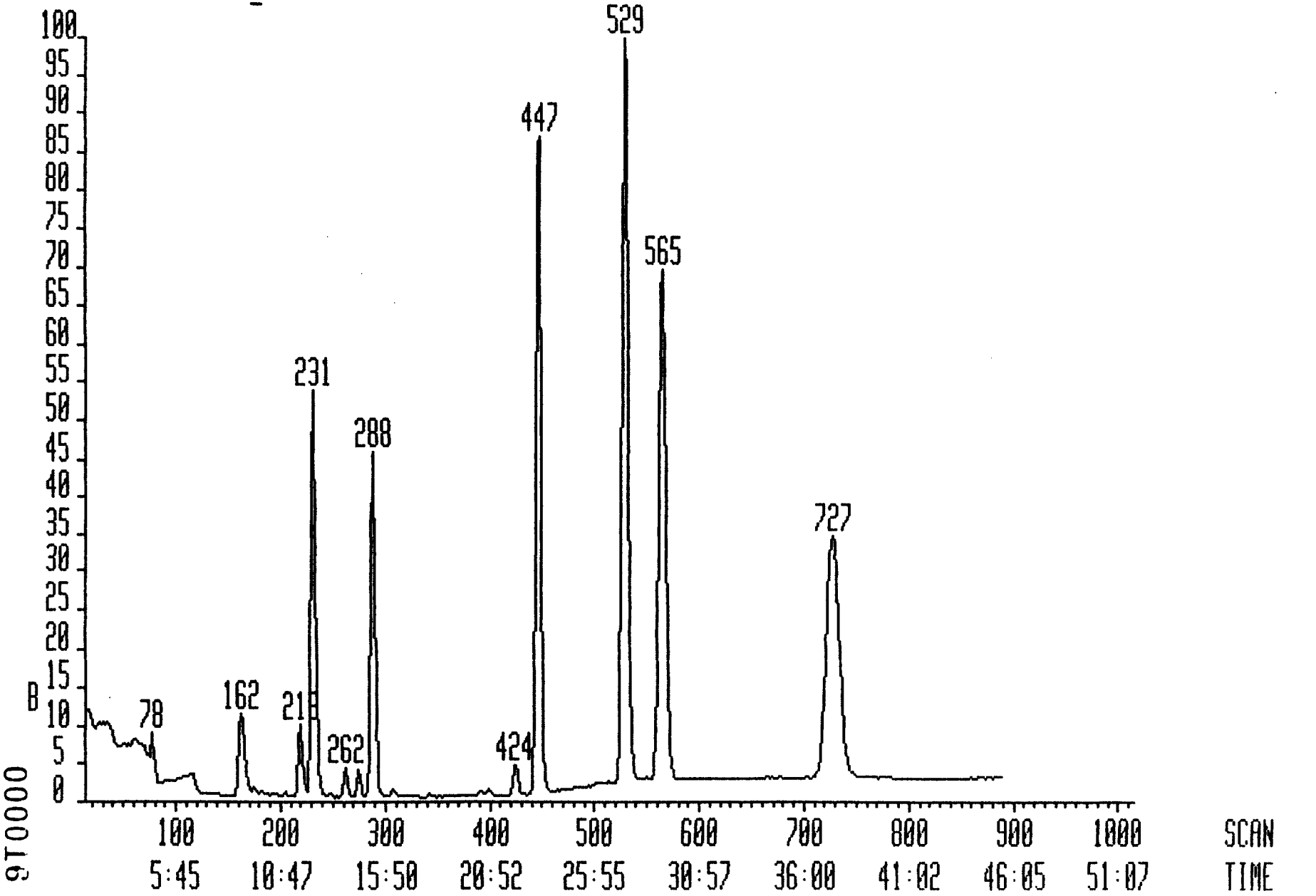
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	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	12	
67-64-1	Acetone	6	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	6	J
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

MM2081 #15-889 15-AUG-92 16:45 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 20223000

Text:EFFLUENT_ 28303



Interim Report Sample Analysis 16-AUG-92 21:55:22

Datafile: MM2081 15-AUG-92 16:45
Database: VOA91M
Library: VOA91

Instrument: VG#2
Account: VG#2
Text: EFFLUENT_ 28303

QRE
M.G.
9/10/92

No.	Rank	Spectrum Match	Spectrum Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	98	92	99	-3	7496000	bb	231	234	128	Bromochloromethane
2	95	85	98	-2	13105000	bv	288	290	65	1,2-Dichloroethane-d4
3	51	0	97	-2	32000	bb*	29	31	50	Chloromethane
	38	0	93	18	23000	bb	49			
	38	0	89	16	23000	bb	47			
4	49	2	92	-2	15808	v?	64	66	94	Bromomethane
	45	2	86	4	4258	??	70			
	43	2	86	7	0	??	73			
5	35	0	77	11	3000	bb	97	86	62	Vinyl Chloride
	34	0	77	13	3000	bb	99			
6	---------- No Trace Found ----------							114	64	Chloroethane
7	96	87	99	-3	3672000	bb	162	165	84	Methylene Chloride
8	71	39	96	-1	383308	v?*	182	183	43	Acetone
	69	45	99	-8	516308	bv	175			
	66	31	97	3	197615	?v	186			
9	79	57	94	-2	394000	bb	194	196	76	Carbon Disulfide
10	95	83	99	-2	2046000	bb	219	221	96	1,1-Dichloroethene
11	60	19	99	-4	86000	bb	247	251	63	1,1-Dichloroethane
	33	5	68	12	255000	bb	263			
12	93	80	99	-2	906000	bb	262	264	96	1,2-Dichloroethene (to
13	81	57	98	-2	859000	bb	276	278	83	Chloroform
14	26	17	33	-3	58000	bb	290	293	62	1,2-Dichloroethane
15	54	30	99	17	291870	vb	308	291	43	2-Butanone
	51	1	99	-3	513273	vv	288			
	45	10	99	-17	300714	bv	274			
16	83	61	99	-2	37401000	bv	446	448	114	1,4-Difluorobenzene
17	33	6	57	-2	24000	bb	319	321	97	1,1,1-Trichloroethane
18	---------- No Trace Found ----------							330	117	Carbon Tetrachloride
19	---------- No Trace Found ----------							0	1	
20	---------- No Trace Found ----------							340	83	Bromodichloromethane
21	---------- No Trace Found ----------							369	63	1,2-Dichloropropane
22	---------- No Trace Found ----------							374	75	cis-1,3-Dichloropropen
23	51	14	84	-2	19000	bb	382	384	130	Trichloroethene
24	---------- No Trace Found ----------							400	129	Dibromochloromethane
25	65	35	88	-1	67000	?b	401	402	97	1,1,2-Trichloroethane
26	59	21	90	0	111000	bb	394	394	78	Benzene
27	15	0	37	18	3000	bb	419	401	75	trans-1,3-dichloroprop
28	---------- No Trace Found ----------							0	1	
29	---------- No Trace Found ----------							459	173	Bromoform
30	90	72	99	-1	32411000	vv	565	566	117	Chlorobenzene-d5
31	84	64	99	-3	19932620	bv	727	730	95	4-Bromofluorobenzene
32	83	65	95	-2	44661330	bv	529	531	98	Toluene-d8
33	55	26	81	3	13079	??	469	466	43	4-Methyl-2-Pentanone
	55	23	82	-2	0	??	464			
	53	26	81	6	4927	??	472			
34	59	27	85	-1	6000	??	498	499	43	2-Hexanone
	58	26	85	2	20341	??	501			
	54	26	84	6	38293	??	505			
35	---------- No Trace Found ----------							505	164	Tetrachloroethene
36	41	2	77	2	56	??	511	509	83	1,1,2,2-Tetrachloroeth

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	36	2	78	-12	3000	??	497			
	32	2	69	12	36	??	521			
37	55	8	97	-1	412000	bb	535	536	91	Toluene
38	31	0	62	5	4000	?b	576	571	112	Chlorobenzene
	30	1	56	0	26000	?b	571			
	30	0	62	8	6000	bb	579			
39	35	3	65	-3	7000	?b	635	638	106	Ethylbenzene
	32	2	61	-5	7000	b?	633			
40	48	8	82	0	241000	?v	779	779	104	Styrene
	45	8	79	-2	241000	?v	777			
	42	7	78	-6	73000	v?	773			
41	---------- No Trace Found ----------							791	106	m-Xylene
42	29	2	52	1	3000	bb	828	827	106	o-/p-Xylene
43	---------- No Trace Found ----------							0	-	

MM2081

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PS#3

Lab Name: PACIFIC ANALYTICAL Contract: D10098

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

Matrix: (soil/water) WATER Lab Sample ID: 28305

Sample wt/vol: 5.0(g/mL) WL Lab File ID: MM2121

Level: (low/med) LOW Date Received: 08/07/92

% Moisture: not dec. Date Analyzed: 08/15/92

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

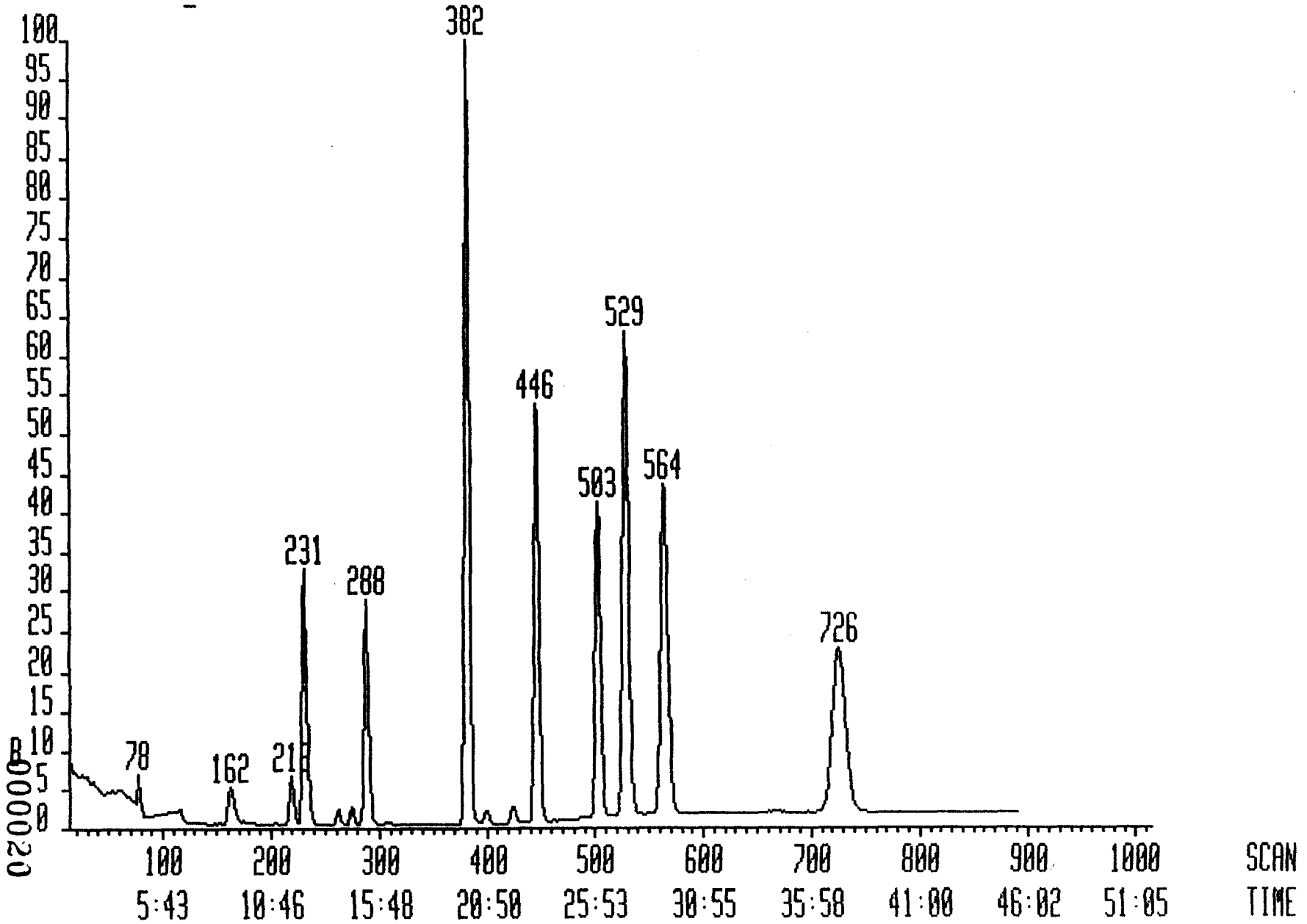
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	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	9	J
67-64-1	Acetone	6	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	6	J
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	82	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
591-78-6	4-Methyl-2-Pentanone	10	U
108-10-1	2-Hexanone	10	U
127-18-4	Tetrachloroethene	37	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

MM2121 #15-891 15-AUG-92 20:13 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 33071000

Text:PS#3_ 28305



Interim Report Sample Analysis 16-AUG-92 22:14:42

Datafile: MM2121 15-AUG-92 20:13
Database: VOA91M
Library: VOA91

Instrument: VG#2
Account: VG#2
Text: PS#3_ 28305

QRE
M.D.
9/10/92

No.	Rank	Spectrum Match	Spectrum Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	98	92	99	-3	7517000	bb	231	234	128	Bromochloromethane
2	96	86	98	-2	13250000	bb*	288	290	65	1,2-Dichloroethane-d4
3	52	0	98	-1	51000	bb	30	31	50	Chloromethane
	51	0	97	2	19000	?b	33			
	41	0	93	14	19000	b?	45			
4	49	2	92	-2	19739	v?	64	66	94	Bromomethane
	43	2	87	7	1759	??	73			
	42	2	88	10	12588	??	76			
5	40	0	77	-3	3000	bb	83	86	62	Vinyl Chloride
6	33	1	63	-2	3000	bb	112	114	64	Chloroethane
	31	0	65	-9	3000	bb	105			
7	95	85	99	-3	2610000	bv	162	165	84	Methylene Chloride
8	68	33	97	-2	348308	?v	181	183	43	Acetone
	68	42	99	-8	322846	bv	175			
	61	23	98	5	28897	??	188			
9	57	34	75	-2	130000	bb	194	196	76	Carbon Disulfide
10	95	84	99	-2	2158000	bv	219	221	96	1,1-Dichloroethene
11	64	25	99	-3	100000	bb	248	251	63	1,1-Dichloroethane
12	92	78	99	-2	805000	bb	262	264	96	1,2-Dichloroethene (to
13	82	60	99	-3	1025000	bb	275	278	83	Chloroform
14	25	17	32	-3	47000	bb	290	293	62	1,2-Dichloroethane
15	54	31	99	17	237000	vb	308	291	43	2-Butanone
	51	0	99	-3	284000	vv	288			
	45	8	99	-17	240000	vv	274			
16	83	61	99	-2	37476000	bv	446	448	114	1,4-Difluorobenzene
17	33	7	57	-2	28000	bb	319	321	97	1,1,1-Trichloroethane
18	36	4	67	-3	10000	b?	327	330	117	Carbon Tetrachloride
19	----------		No	Trace	Found	----------		0	1	
20	----------		No	Trace	Found	----------		340	83	Bromodichloromethane
21	20	1	45	13	49000	bb	382	369	63	1,2-Dichloropropane
22	----------		No	Trace	Found	----------		374	75	cis-1,3-Dichloropropen
23	94	81	99	-2	27664000	bb*	382	384	130	Trichloroethene
24	19	0	37	-2	4000	bb	398	400	129	Dibromochloromethane
	18	1	37	8	3000	bb	408			
	15	1	36	-19	66000	bb	381			
25	81	61	94	-2	561000	vb	400	402	97	1,1,2-Trichloroethane
26	41	11	67	-1	88000	bb	393	394	78	Benzene
27	----------		No	Trace	Found	----------		401	75	trans-1,3-dichloroprop
28	----------		No	Trace	Found	----------		0	1	
29	----------		No	Trace	Found	----------		459	173	Bromoform
30	90	73	99	-2	32902000	bv	564	566	117	Chlorobenzene-d5
31	82	63	99	-4	20512840	bv*	726	730	95	4-Bromofluorobenzene
32	83	65	95	-2	46525430	bv	529	531	98	Toluene-d8
33	58	27	82	-1	7724	??	465	466	43	4-Methyl-2-Pentanone
	54	26	81	5	2611	??	471			
	53	25	79	3	4545	??	469			
34	57	24	85	-2	9022	??	497	499	43	2-Hexanone
	55	27	85	-6	6600	??	493			
	50	24	86	12	16592	??	511			
35	95	84	99	-2	9326000	bb	503	505	164	Tetrachloroethene

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36	41	3	79	5	6848	??	514	509	83	1,1,2,2-Tetrachloroeth
	38	0	78	-6	165957	vb	503			
	37	2	79	11	29	??	520			
37	50	4	90	-1	198000	vb	535	536	91	Toluene
38	33	1	65	4	7000	b?	575	571	112	Chlorobenzene
	31	1	57	-1	19000	?b	570			
	22	1	42	-4	42000	b?	567			
39	----------		No	Trace	Found	----------		638	106	Ethylbenzene
40	45	6	78	0	147000	??	779	779	104	Styrene
	44	6	78	2	48000	??	781			
	44	7	78	-3	46000	??	776			
41	----------		No	Trace	Found	----------		791	106	m-Xylene
42	----------		No	Trace	Found	----------		827	106	o-/p-Xylene
43	----------		No	Trace	Found	----------		0	-	

MM2121

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PS#4

Lab Name: PACIFIC ANALYTICAL Contract: D10098

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

Matrix: (soil/water) WATER Lab Sample ID: 28304

Sample wt/vol: 5.0(g/mL) mL Lab File ID: MM2111

Level: (low/med) LOW Date Received: 08/07/92

% Moisture: not dec. Date Analyzed: 08/15/92

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

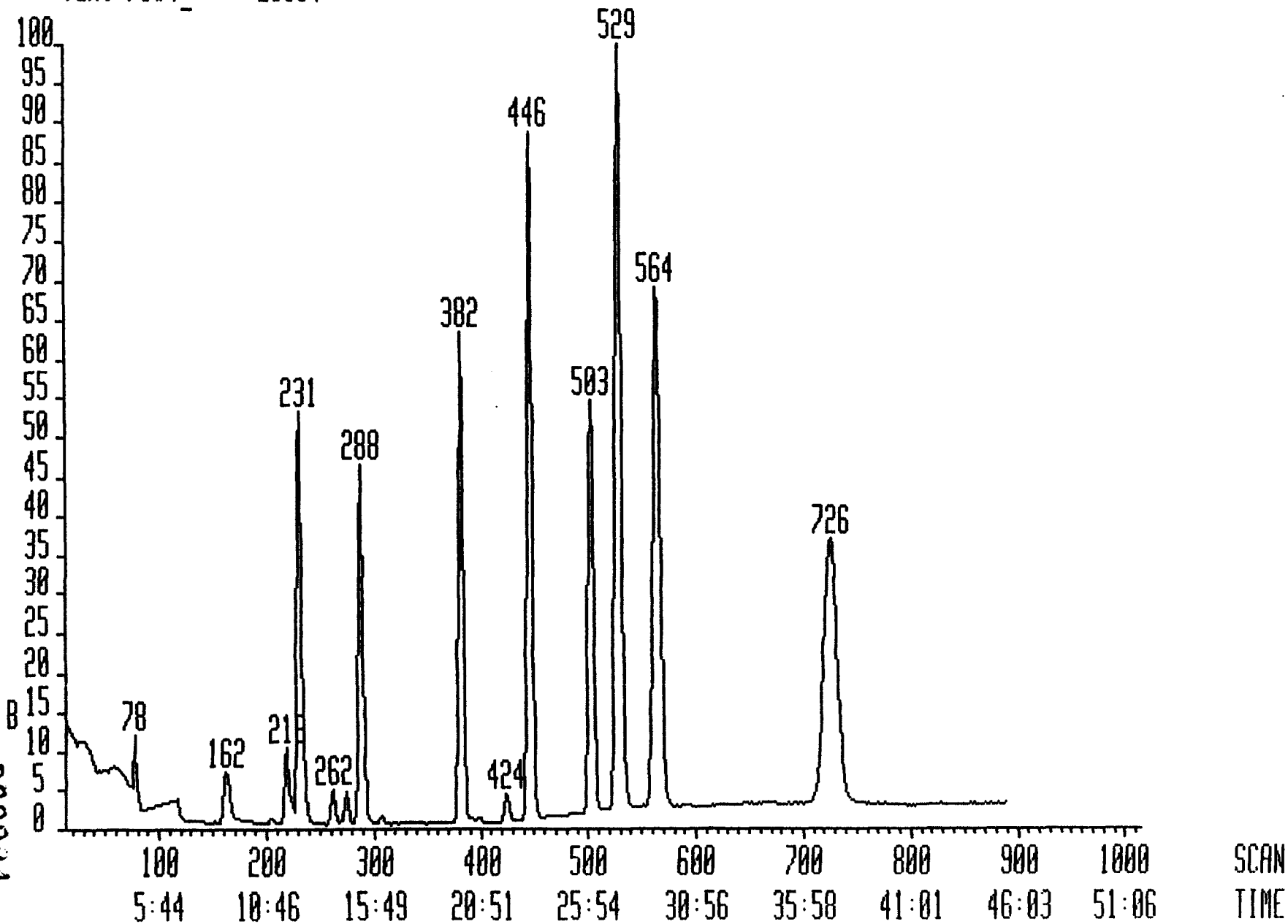
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	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	6	J
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	32	
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	30	
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

MM2111 #15-889 15-AUG-92 19:21 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 20062000

Text:PS#4_ 28304



000024

Interim Report Sample Analysis 16-AUG-92 22:09:52

Datafile: MM2111 15-AUG-92 19:21
Database: VOA91M
Library: VOA91

Instrument: VG#2
Account: VG#2
Text: PS#4_ 28304

QRE
M.H.
9/10/92

No.	Rank	Spectrum Match	Spectrum Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	98	92	99	-3	7445000	bb	231	234	128	Bromochloromethane
2	95	85	98	-2	12738000	bb	288	290	65	1,2-Dichloroethane-d4
3	52	0	98	-1	38000	bb	30	31	50	Chloromethane
	49	0	96	-3	38000	bb	28			
	38	0	93	18	11000	bb	49			
4	46	1	88	2	4333	??	68	66	94	Bromomethane
	45	1	86	-2	9259	v?	64			
	43	3	89	9	23279	??	75			
5	35	0	77	11	3000	bb	97	86	62	Vinyl Chloride
	32	0	77	18	3000	bb	104			
6	---------- No Trace Found ----------							114	64	Chloroethane
7	95	85	99	-3	2259000	bb	162	165	84	Methylene Chloride
8	70	36	96	-1	419200	vv*	182	183	43	Acetone
	66	41	99	-9	290250	bv	174			
	51	10	99	10	14950	??	193			
9	64	38	84	-2	128000	bb	194	196	76	Carbon Disulfide
10	95	83	99	-2	1956000	bv	219	221	96	1,1-Dichloroethene
11	52	12	90	-4	48000	bb	247	251	63	1,1-Dichloroethane
	33	5	68	11	331000	bb	262			
12	92	78	99	-2	1024000	bb	262	264	96	1,2-Dichloroethene (to
13	63	24	98	-3	444000	bb	275	278	83	Chloroform
14	26	17	33	-3	55000	bb	290	293	62	1,2-Dichloroethane
15	56	33	99	16	321000	vv*	307	291	43	2-Butanone
	52	0	99	-2	317000	vv	289			
	49	19	98	-17	680000	vv	274			
16	83	61	99	-2	36196000	bb*	446	448	114	1,4-Difluorobenzene
17	31	4	57	-3	16000	bb	318	321	97	1,1,1-Trichloroethane
18	38	6	68	-4	19000	bb	326	330	117	Carbon Tetrachloride
19	---------- No Trace Found ----------							0	1	
20	---------- No Trace Found ----------							340	83	Bromodichloromethane
21	20	1	45	13	15000	bb	382	369	63	1,2-Dichloropropane
22	---------- No Trace Found ----------							374	75	cis-1,3-Dichloropropen
23	93	80	99	-2	10488000	bb	382	384	130	Trichloroethene
24	15	1	35	-18	24000	bb	382	400	129	Dibromochloromethane
25	60	29	87	-2	98000	bb	400	402	97	1,1,2-Trichloroethane
26	43	13	68	-1	97000	bb	393	394	78	Benzene
27	18	0	37	8	3000	bb	409	401	75	trans-1,3-dichloroprop
	16	0	37	16	6000	bb	417			
28	---------- No Trace Found ----------							0	1	
29	---------- No Trace Found ----------							459	173	Bromoform
30	89	72	99	-2	31536910	bv*	564	566	117	Chlorobenzene-d5
31	82	61	99	-3	19815920	vv*	727	730	95	4-Bromofluorobenzene
32	83	64	95	-2	44525910	bv	529	531	98	Toluene-d8
33	58	26	86	-2	18111	??	464	466	43	4-Methyl-2-Pentanone
	54	22	81	1	8333	??	467			
	52	25	80	6	24438	??	472			
34	56	23	85	-2	6323	??	497	499	43	2-Hexanone
	55	26	83	-4	0	??	495			
	52	26	82	-8	0	??	491			
35	95	83	99	-2	7112000	bb	503	505	164	Tetrachloroethene

000025

36	40	0	80	-5	141000	bb	504	509	83	1,1,2,2-Tetrachloroeth
	36	2	78	13	2000	??	522			
	25	1	48	3	5000	??	512			
37	50	5	90	-1	248000	bb	535	536	91	Toluene
38	29	0	62	9	9000	bb	580	571	112	Chlorobenzene
	28	1	52	-2	34000	?b	569			
	26	0	62	-17	6000	bb	554			
39	---------- No Trace Found ----------							638	106	Ethylbenzene
40	35	4	61	0	73000	?v	779	779	104	Styrene
	34	4	62	-3	146000	?v	776			
	32	3	60	-5	36000	??	774			
41	---------- No Trace Found ----------							791	106	m-Xylene
42	---------- No Trace Found ----------							827	106	o-/p-Xylene
43	---------- No Trace Found ----------							0	-	

MM2111

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: PACIFIC ANALYTICAL Contract: D10098

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

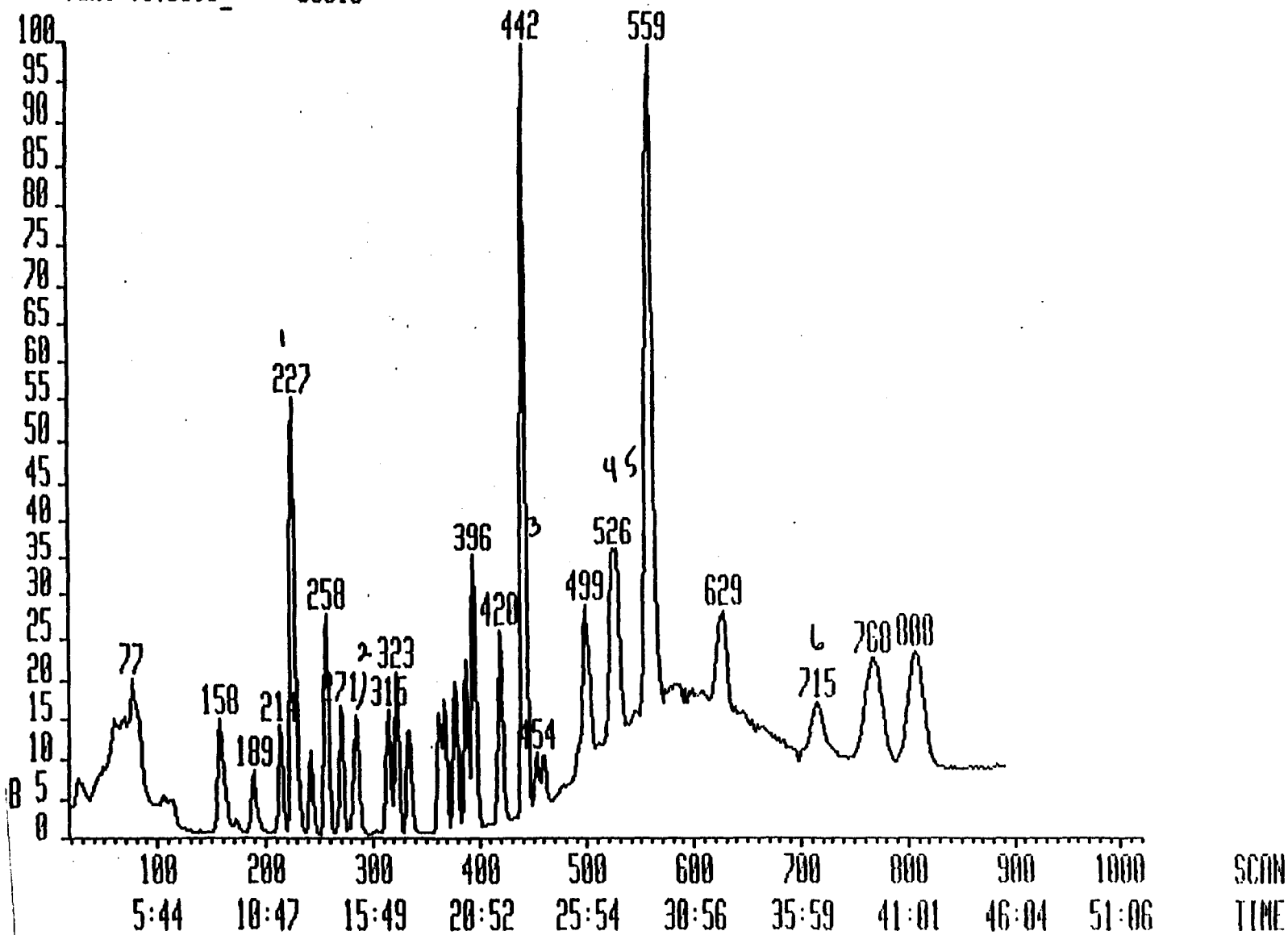
* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

FORM VI VOA

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

Chromatogram Identifiers : B1:35:260 B: 21014000

Text:VSTD010_ 00010



000028

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

Instrument: VG#2
Account:
Text: VSTD010_ 00010

QRE
gm. E.
7/17/92

No.	Rank	Spectrum Match	Spectrum Fit	Scan Diff	Peak Area	Figs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	91	74	99	1	8578000	bb	227	226	122	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	~~1120134~~	b?	60	59	94	Bromomethane 2273976
	48	0	96	5	1147256	?v	64			
	32	0	80	19	288385	??	78			
5	53	0	99	0	~~1247000~~	bv	79	79	62	Vinyl Chloride 2552555
	47	0	99	8	1339222	?b	87			
6	53	2	98	1	~~875000~~	v?*	107	106	64	Chloroethane 1500761
	49	1	98	6	732000	?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

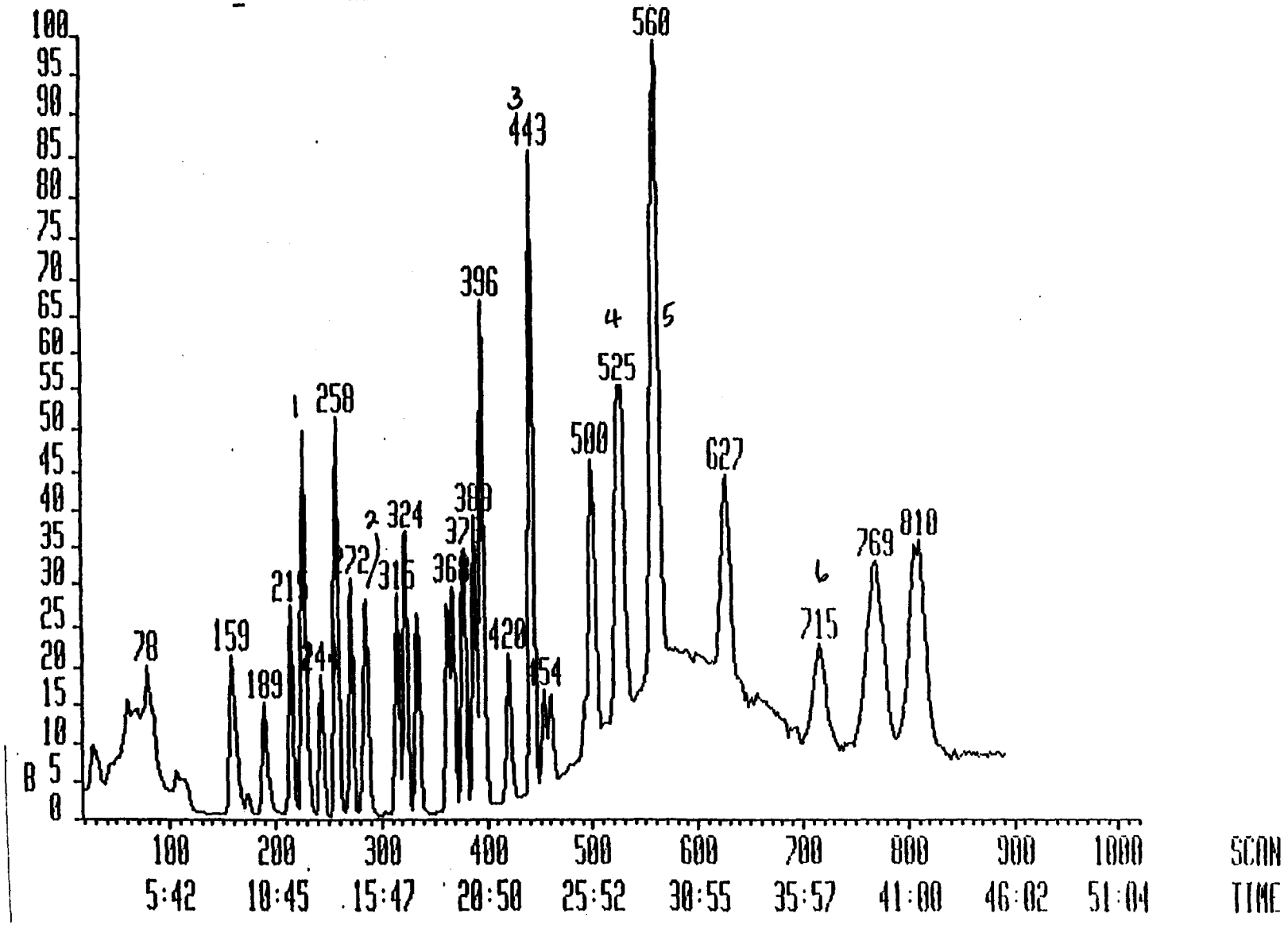
	41	12	74	-3	24300	??	485			
	40	12	74	-10	18333	??	483			
35	72	37	99	1	2409000	bb	499	498	164	Tetrachloroethene
36	62	18	99	1	2927500	vv	503	502	83	1,1,2,2-Tetrachloroeth
	43	3	89	9	16000	??	511			
	41	3	83	-9	15034	??	493			
37	70	34	99	1	9692756	vv	529	528	91	Toluene
38	60	17	99	2	7181689	vv	563	561	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



T00031

Interim Report Sample Analysis 17-JUL-92 09:15:1[illegible]

Datafile: FF3111 16-JUL-92 20:37
Database: VOA91Y
Library: VOA91

Instrument: VG#2
Account:
Text: VSTD020_ 00020

G.25
m. F.
7/17/92

No.	Rank	Spectrum Match	Fit	Scan Diff	Peak Area	Flgs	Scan Found	Pred	Quan m/z	Compound Name
1	90	72	99	1	9603000	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	~~2133808~~	bv	60	59	94	Bromomethane 4347845
	48	0	98	6	2135462	?v	65			
5	52	0	99	1	~~2253242~~	bv	80	79	62	Vinyl Chloride 4995523
	47	0	99	9	3001069	?b	88			
6	54	4	98	1	~~2176000~~	?*	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

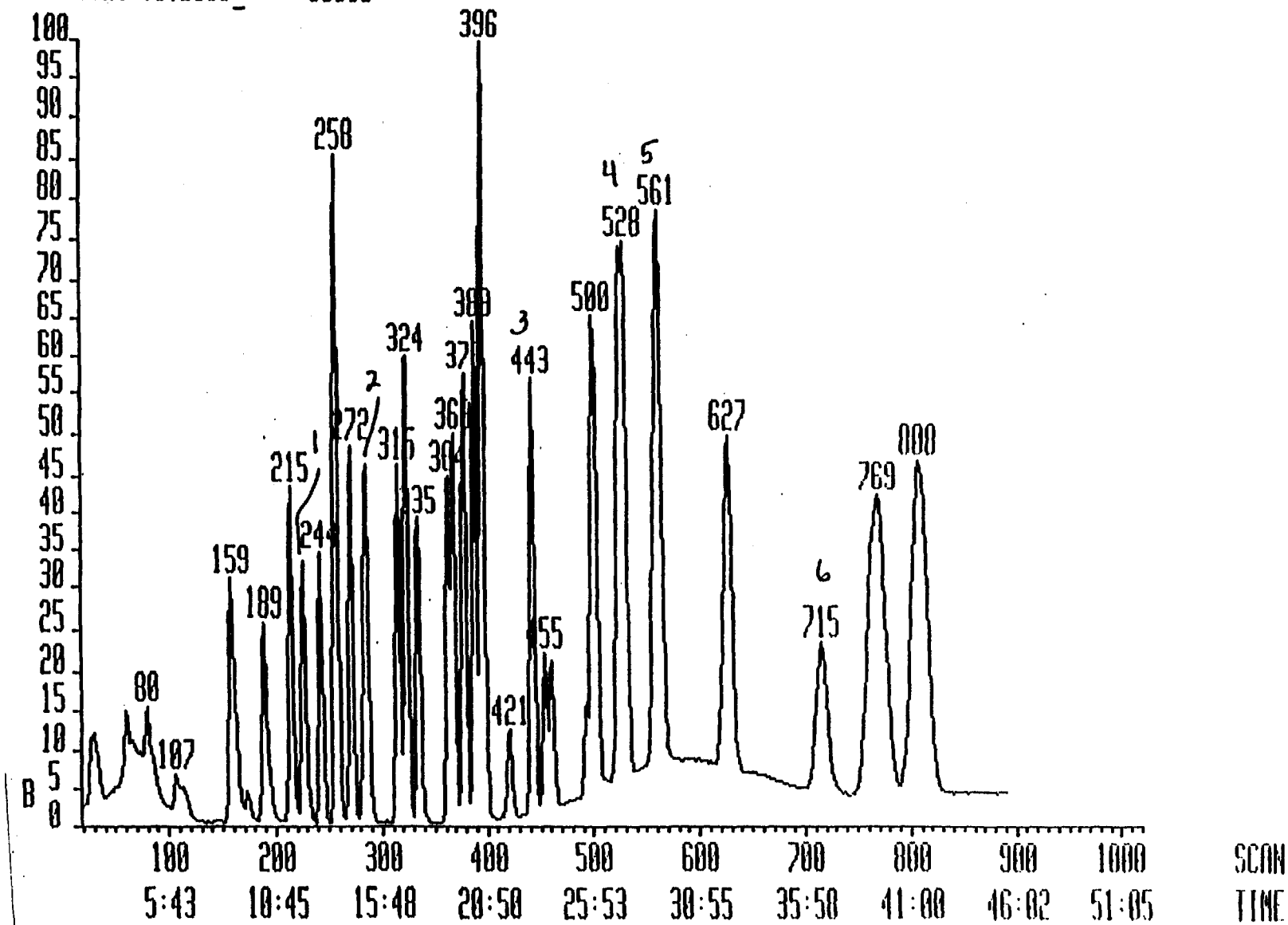
	41	4	85	10	20741	??	512			
	40	4	85	12	24778	??	514			
37	76	45	99	1	20421800	vv	527	528	91	Toluene
38	65	26	99	2	15515640	vv	563	561	112	Chlorobenzene
39	71	37	99	2	8644000	bb	627	625	106	Ethylbenzene
40	70	37	99	3	~~11190780~~	~~bb~~	763	760	104	Styrene 15 761 363
	67	36	98	5	11190780	bb	765			
41	71	40	96	2	~~2527790~~	??	771	769	106	m-Xylene 9863668
42	75	51	99	5	~~19797720~~	bb	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 THP

Chromatogram Identifiers : B1:35:260 B: 36951000

Text:VSTD050_ 00050



000034

Interim Report Sample Analysis 17-JUL-92 15:13:11

Datafile: FF3131 16-JUL-92 22:10
Database: VCA91Y
Library: VCA91

Instrument: VG#2
Account:
Text: VSTD050_ 00050

QRE
on. 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	63	1,2-Dichloroethane-d4
3	65	22	99	0	~~6224750~~	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	~~3072000~~	bv	60	59	94	Bromomethane 9 259 600
	49	0	99	6	4398000	?v	63			
5	52	0	99	1	~~3475886~~	b?	80	79	62	Vinyl Chloride 12632895
	48	2	99	8	7772656	?b	87			
6	57	10	98	1	~~4924000~~	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

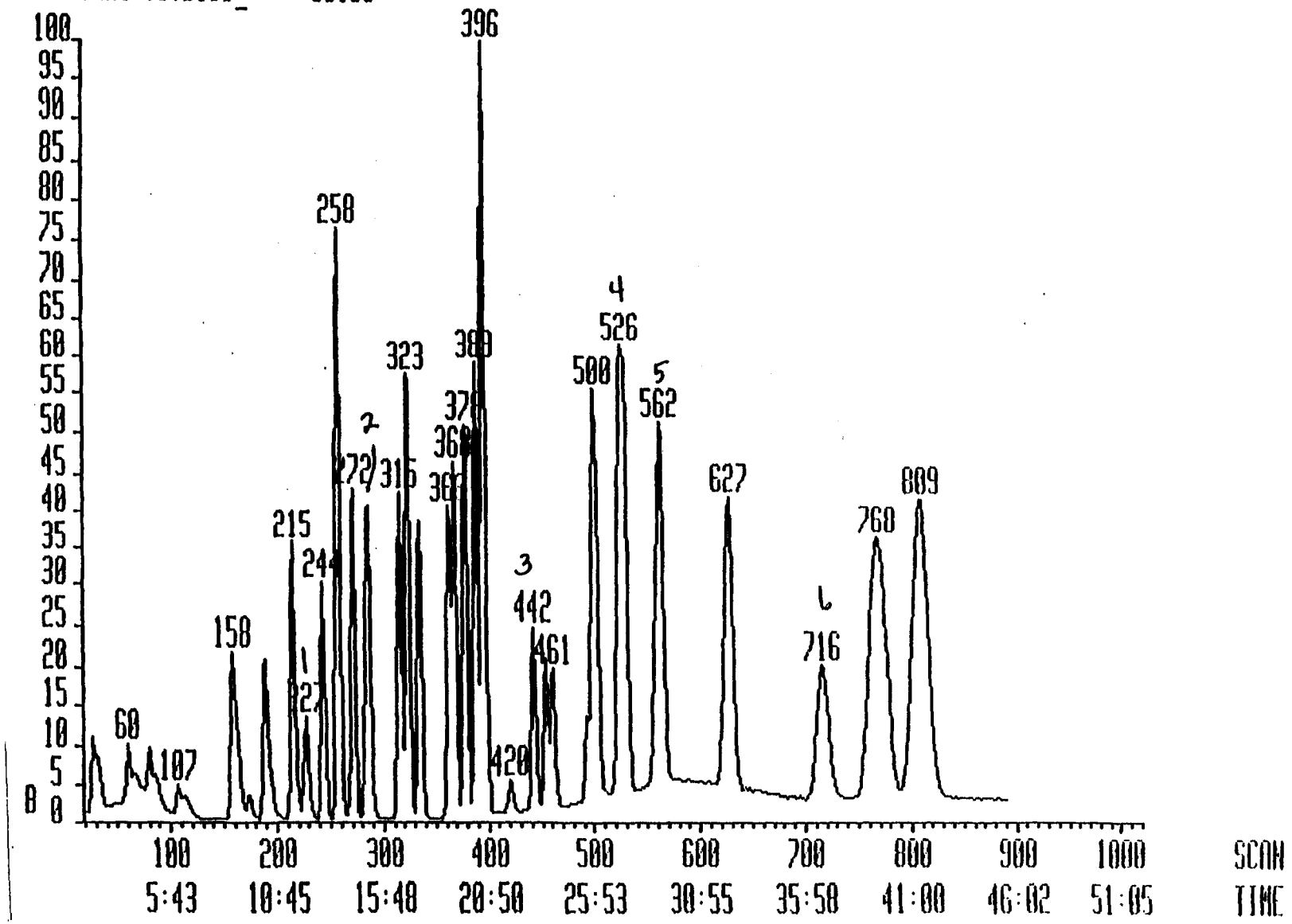
39	82	59	99	2	20650000 bv	627	625	106	Ethylbenzene
40	77	52	99	4	40817940 vv	764	760	104	Styrene
41	79	56	96	2	24409000 bb	771	769	106	m-Xylene
	78	57	97	4	24409000 bb	773			
42	85	67	99	3	~~21478130 b~~?	806	803	106	o-/p-Xylene 49 257 796
	83	67	99	5	29128630 ?b	802			
43	---------- No Trace Found ----------						0	-	

FF3131

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

Chromatogram Identifiers : B1:35:260 B: 06302000

Text:VSTD100_ 00100



0000037

Interim Report Sample Analysis 17-JUL-92 09:00:33

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

Instrument: VG#2
Account:
Text: VSTD100_ 00100

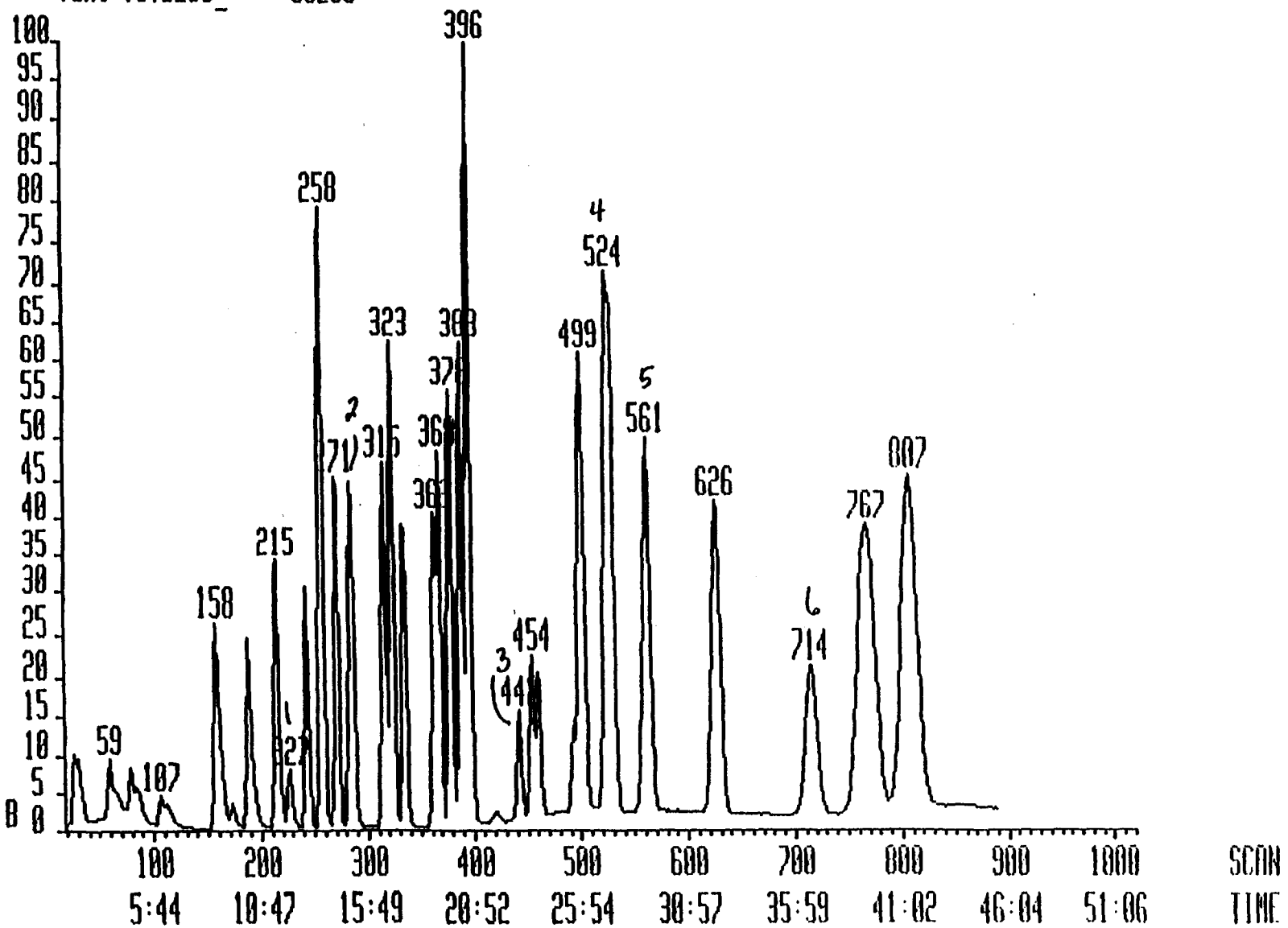
QRE
m.S.
7/17/92

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	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	~~13587380~~	b?	27	27	50	Chloromethane 37716156
	69	38	99	5	19044880	?b	32			
4	53	1	99	1	~~7125500~~	bv	60	59	94	Bromomethane 16945974
	48	0	99	7	8862700	?v	66			
5	52	0	99	1	~~10462456~~	bv	80	79	62	Vinyl Chloride 22993050
	47	3	99	10	13982210	?b	89			
6	60	15	98	1	~~7568805~~	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	-	

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

Chromatogram Identifiers : B1:35:260 B: 145081136

Text:VSTD200_ 00200



000033

Interim Report: Sample Analysis 17-JUL-92 09:55:29

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

Instrument: VG#2
Account:
Text: VSTD200_ 00200

QRE
m.D.
7/17/92

No.	Rank	Spectrum Match	Spectrum Fit	Scan Diff	Peak Area	Figs	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	~~25008120~~	b?	27	27	50	Chloromethane 67835760
	79	55	99	3	30997200	?b	30			
4	55	3	99	0	31120100	bv	59	59	94	Bromomethane
5	53	1	99	0	~~19434880~~	b?	79	79	62	Vinyl Chloride 45362440
	51	7	99	8	28685690	?b	87			
6	63	22	98	1	~~18525130~~	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 188 308 768
	89	77	99	4	106944000	?b	807			

000040

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: 08/15/92 Time: 1057

Lab File ID: MM2021 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	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	2.052	1.424		31.0	
Bromomethane	1.121	0.864	0.100	23.0	25.0
Vinyl Chloride	1.427	1.111	0.100	22.0	25.0
Chloroethane	0.902	1.039		-15.0	
Methylene Chloride	2.274	1.967		14.0	
Acetone	0.477	0.416		13.0	
Carbon Disulfide	4.834	4.960		-3.0	
1,1-Dichloroethene	1.748	2.328	0.100	-33.0	25.0
1,1-Dichloroethane	2.724	2.843	0.200	-4.0	25.0
1,2-Dichloroethene (total)	1.852	2.090		-13.0	
Chloroform	3.354	3.405	0.200	-2.0	25.0
1,2-Dichloroethane	1.869	1.990	0.100	-6.0	25.0
2-Butanone	0.746	0.697		7.0	
1,1,1-Trichloroethane	0.602	0.656	0.100	-9.0	25.0
Carbon Tetrachloride	0.562	0.577	0.100	-3.0	25.0
Bromodichloromethane	0.540	0.575	0.200	-6.0	25.0
1,2-Dichloropropane	0.311	0.323		-4.0	
cis-1,3-Dichloropropene	0.597	0.636	0.200	-7.0	25.0
Trichloroethene	0.406	0.448	0.300	-10.0	25.0
Dibromochloromethane	0.402	0.413	0.100	-3.0	25.0
1,1,2-Trichloroethane	0.307	0.341	0.100	-11.0	25.0
Benzene	1.134	1.175	0.500	-4.0	25.0
trans-1,3-dichloropropene	0.424	0.480	0.100	-13.0	25.0
Bromoform	0.234	0.226	0.100	3.0	25.0
4-Methyl-2-Pentanone	0.361	0.353		2.0	
2-Hexanone	0.227	0.226		0.0	
Tetrachloroethene	0.355	0.380	0.200	-7.0	25.0
1,1,2,2-Tetrachloroethane	0.441	0.422	0.500	4.0	25.0
Toluene	1.377	1.502	0.400	-9.0	25.0
Chlorobenzene	1.031	1.080	0.500	-5.0	25.0
Ethylbenzene	0.579	0.625	0.100	-8.0	25.0
Styrene	1.112	1.225	0.300	-10.0	25.0
Xylene (total)	0.672	0.743	0.300	-11.0	25.0
Toluene-d8	1.275	1.345		-5.0	
4-Bromofluorobenzene	0.572	0.616	0.200	-8.0	25.0
1,2-Dichloroethane-d4	1.680	1.758		-5.0	

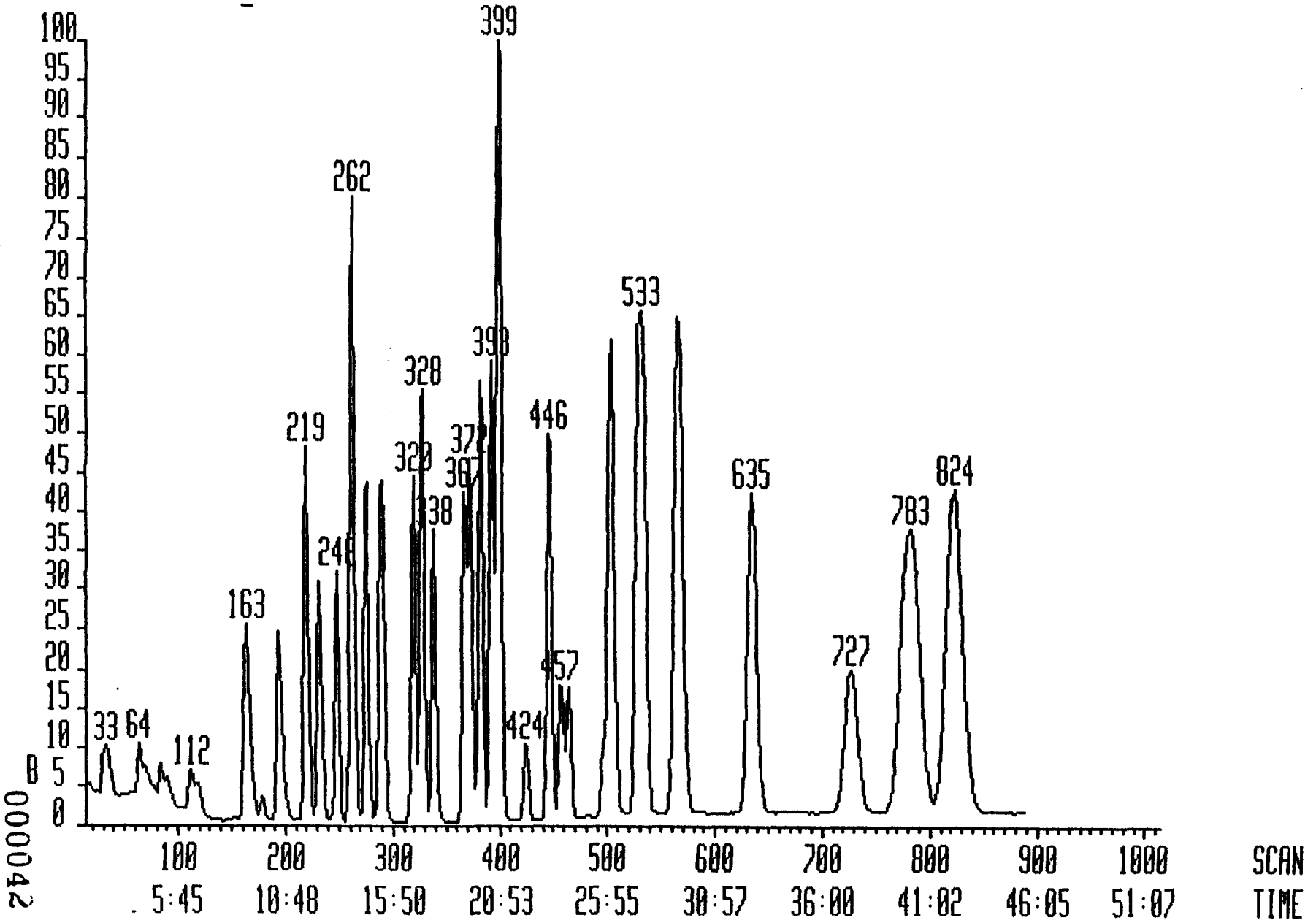
All other compounds must meet a minimum RRF of 0.010.

FORM VII VOA 3/90 Rev.

MM2021 #15-889 15-AUG-92 10:57 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 33605000

Text:VSTD050_ 00050



000042

Interim Report Sample Analysis 15-AUG-92 17:01:08

Datafile: MM2021 15-AUG-92 10:57
Database: VOA91M
Library: VOA91

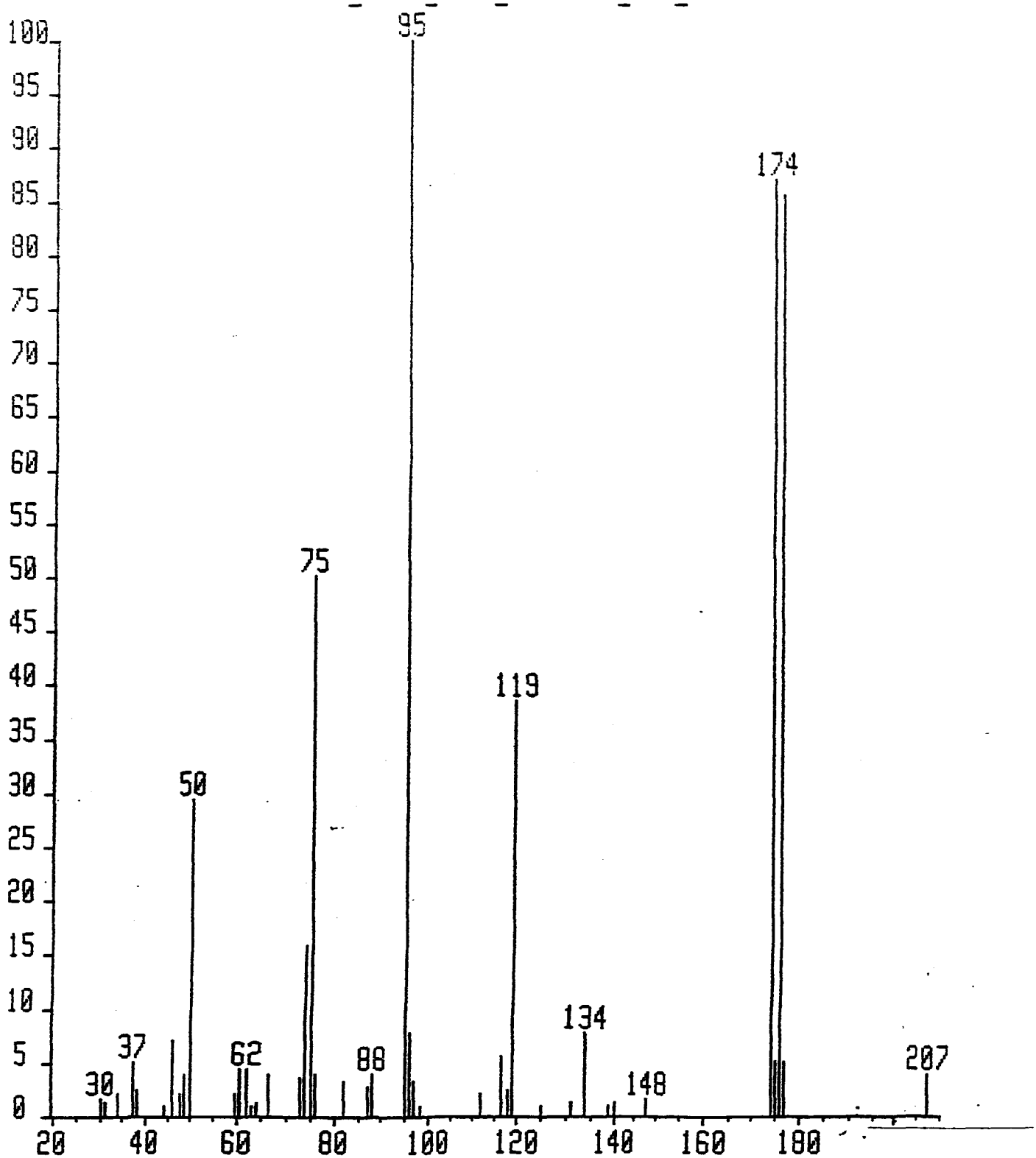
QRE
m.G.
8/15/92

Instrument: VG#2
Account: VG#2
Text: VSTD050_ 00050

No.	Rank	Spectrum Match	Spectrum Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	98	91	99	-3	7116000	bb	231	234	128	Bromochloromethane
2	81	54	99	-1	12507000	bb	289	290	65	1,2-Dichloroethane-d4
3	79	50	99	-1	~~3694000~~	b?	30	31	50	Chloromethane 10 129 885
	77	49	99	2	7705000	?b	33			
4	81	57	99	-2	~~8223333~~	vv	64	66	94	Bromomethane 6 149 787
	72	42	99	3	2923352	?v	69			
5	76	46	99	-2	~~3620552~~	b?	84	86	62	Vinyl Chloride 7 903 098
	75	49	99	4	4792794	?b	90			
6	81	58	98	-2	~~3944737~~	b?*	112	114	64	Chloroethane 7 392 285
	76	49	98	3	4050211	?b	117			
7	98	89	99	-2	13995000	bb*	163	165	84	Methylene Chloride
8	86	73	99	-5	2959000	bv	178	183	43	Acetone
9	99	92	99	-2	35297890	bv	194	196	76	Carbon Disulfide
10	94	82	99	-2	16565000	bv	219	221	96	1,1-Dichloroethene
11	86	68	99	-3	20233000	bv	248	251	63	1,1-Dichloroethane
12	95	84	99	-2	29741530	bv*	262	264	96	1,2-Dichloroethene (to
13	95	86	99	-3	24233000	bv	275	278	83	Chloroform
14	88	73	95	-2	14164000	bv	291	293	62	1,2-Dichloroethane
15	57	12	99	-3	4961370	vv*	288	291	43	2-Butanone
	50	19	99	16	104804	?v	307			
	36	0	88	-18	26000	b?	273			
16	83	61	99	-2	35644000	bb*	446	448	114	1,4-Difluorobenzene
17	96	84	98	-1	23385000	bb	320	321	97	1,1,1-Trichloroethane
18	88	71	98	-2	20571000	vb	328	330	117	Carbon Tetrachloride
19	----------		No	Trace	Found	----------		0	1	
20	92	78	99	-2	20491980	vv	338	340	83	Bromodichloromethane
21	92	79	98	-2	11523000	bv	367	369	63	1,2-Dichloropropane
22	92	78	99	-2	22654000	bb	372	374	75	cis-1,3-Dichloropropen
23	93	80	99	-2	15967000	bv	382	384	130	Trichloroethene
24	67	30	99	-2	14725000	bb	398	400	129	Dibromochloromethane
25	75	43	99	-1	12153000	vv	401	402	97	1,1,2-Trichloroethane
26	96	85	96	-1	41864000	bv	393	394	78	Benzene
27	65	26	99	-2	17123770	vv	399	401	75	trans-1,3-dichloroprop
28	----------		No	Trace	Found	----------		0	1	
29	98	89	99	-2	8073000	bb	457	459	173	Bromoform
30	81	56	99	-2	30868000	bv*	564	566	117	Chlorobenzene-d5
31	85	64	99	-2	19019620	bv*	728	730	95	4-Bromofluorobenzene
32	86	66	99	-2	41504000	bv	529	531	98	Toluene-d8
33	99	89	99	-1	10910330	vv	465	466	43	4-Methyl-2-Pentanone
34	96	85	99	-2	6971125	vv	497	499	43	2-Hexanone
35	92	77	99	-2	11723000	bb	503	505	164	Tetrachloroethene
36	75	45	99	-2	13021000	vv	507	509	83	1,1,2,2-Tetrachloroeth
37	90	74	99	-2	46371000	bb	534	536	91	Toluene
38	82	58	99	-2	33341510	bv	569	571	112	Chlorobenzene
39	90	77	99	-3	19302000	bb	635	638	106	Ethylbenzene
40	88	72	99	-3	~~17595250~~	v?	776	779	104	Styrene 37 801 856
41	83	69	96	-5	~~12836750~~	?b	786	791	106	m-Xylene 22 938 590
42	94	83	99	-3	~~24880480~~	?v	824	827	106	o-/p-Xylene 44 340 236
	91	83	99	-5	20262960	b?	822			
43	----------		No	Trace	Found	----------		0	-	

000043

BFBTUNS#1 x1 Bgd=695 10-AUG-92 23:00+0:36:38 EI+
I=39mv TIC=1339000 AV SU Acnt:
Text:07/16/92 _TIME_1616_ FF3071_AVE_(713-715)-



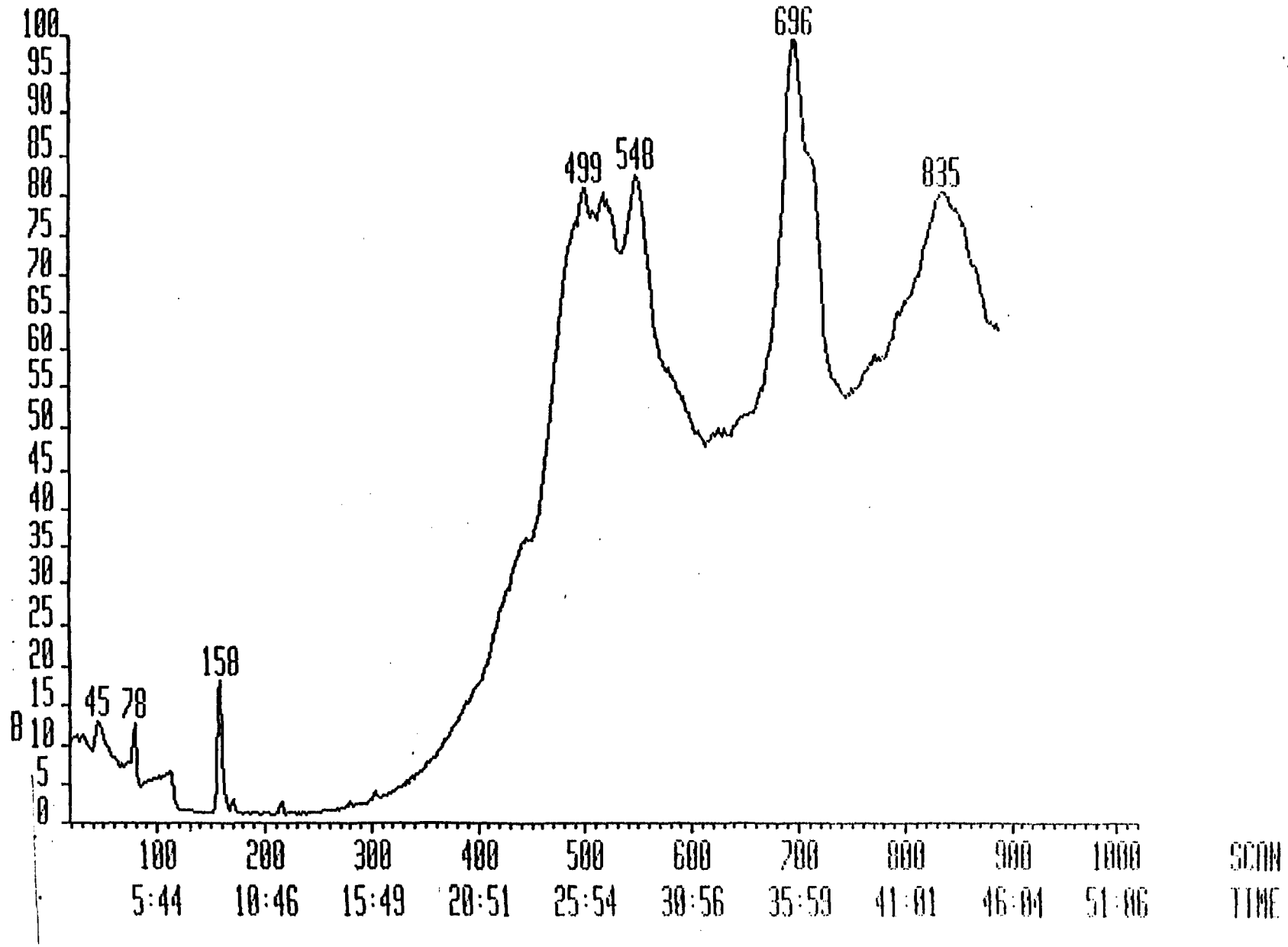
BFBTUNS#1 x1 Bgd=695 10-AUG-92 22:00+0:36:38 VG#2 EI+ 1
BpM=95 I=39mv Hm=207 TIC=1339000 AV SU Acnt: Sys: IDVOA
Text: 07/16/92 _TIME_1616_ FF3071_AVE_(713-715)-SCPT=0 Cal:

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

FF3071 #20-889 16-JUL-92 16:16 VG#2 (EI+) Sys:IDVOA THP

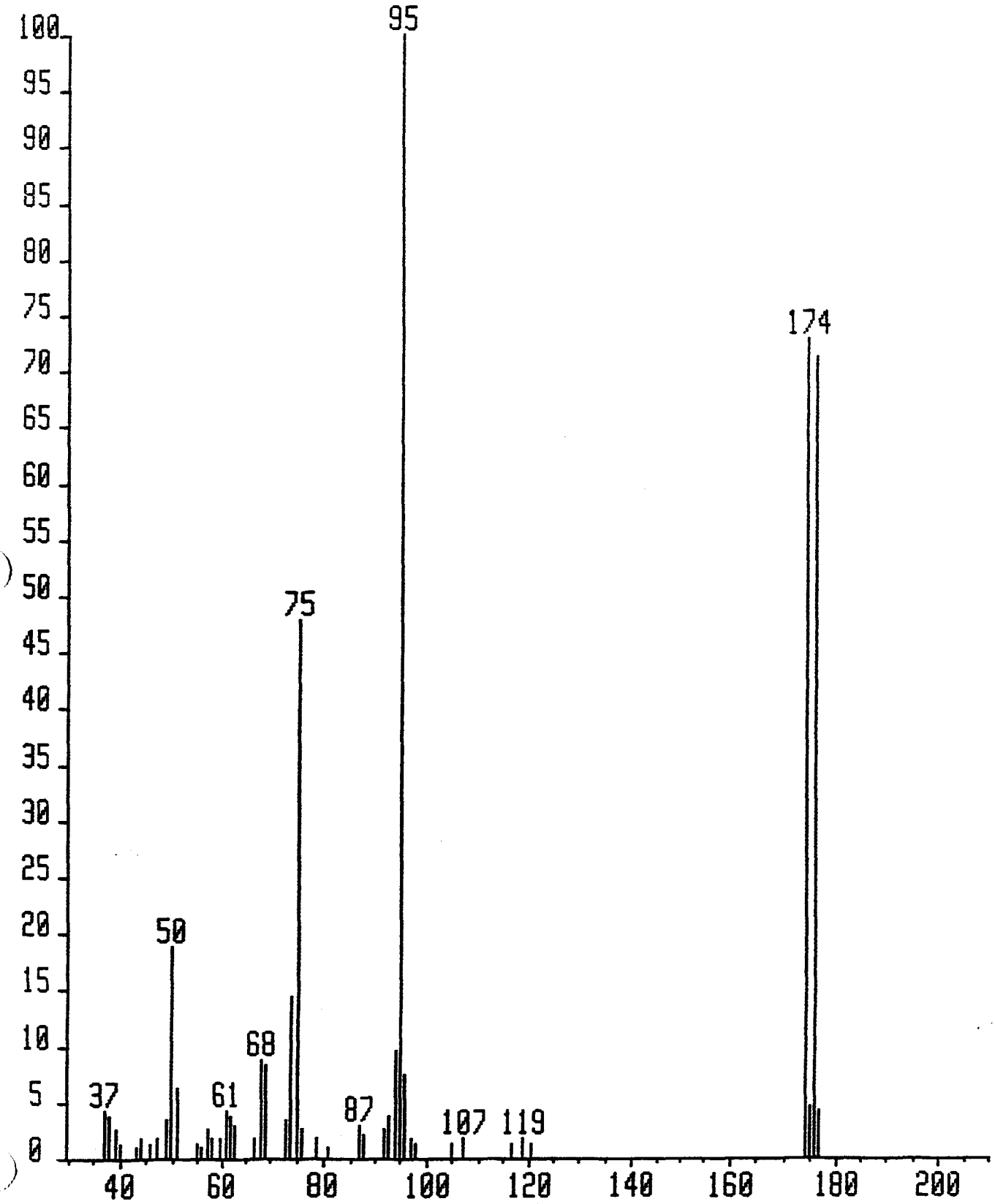
Chromatogram Identifiers : B1:35:260 B: 8399000

Text:



000046

BFBTUNS#1 x1 Bgd=715 19-AUG-92 09:47+0:37:16 EI+
I=37mv TIC=1094000 AV SU Acnt:VG#2
Text:08/15/92 _TIME_1011_ MM2011_AVE_(726-728)-



BFBTUNS#1 x1 Bgd=715 19-AUG-92 09:47+0:37:16 VG#2 EI+ 1.1
BpM=95 I=37mv Hm=207 TIC=1094000 AV SU Acnt:VG#2 Sys:VOA91
Text:08/15/92 _TIME_1011 _ MM2011_AVE_(726-728)-SCPT=0 Cal:

Mass	Abs. Ht	% Mass
37	10000	4.1
38	9000	3.7
39	6000	2.4
40	3000	1.2
41	1000	0.4
43	2000	0.8
44	4000	1.6
45	1000	0.4
46	3000	1.2
47	4000	1.6
49	8000	3.3
50	46000	18.8
51	15000	6.1
55	3000	1.2
56	2000	0.8
57	6000	2.4
58	4000	1.6
60	4000	1.6
61	10000	4.1
62	9000	3.7
63	7000	2.9
67	4000	1.6
68	21000	8.6
69	20000	8.2
70	1000	0.4
71	1000	0.4
72	1000	0.4
73	8000	3.3
74	35000	14.3
75	117000	47.8
76	6000	2.4
77	1000	0.4
79	4000	1.6
80	1000	0.4
81	2000	0.8
86	1000	0.4
87	7000	2.9
88	5000	2.0
91	1000	0.4
92	6000	2.4
93	9000	3.7
94	23000	9.4
95	245000	100.0
96	18000	7.3
97	4000	1.6
98	3000	1.2
103	1000	0.4
105	3000	1.2
107	4000	1.6
117	3000	1.2
119	4000	1.6
121	3000	1.2
135	1000	0.4
174	178000	72.7
175	11000	4.5
176	174000	71.0

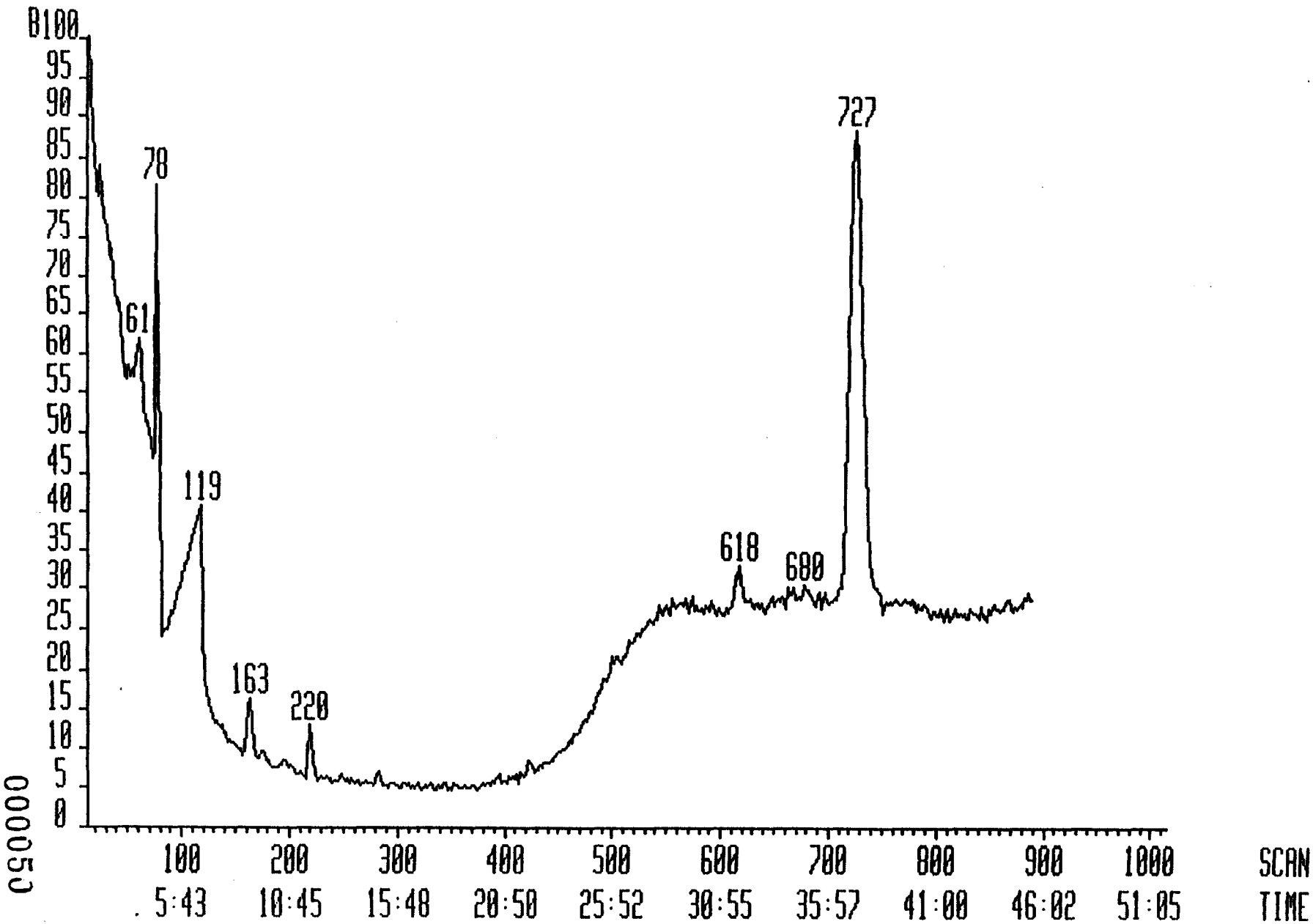
BFBTUNS#1 x1 Bgd=715 19-AUG-92 09:47+0:37:16 VG#2 EI+ 1.2
BpM=95 I=37mv Hm=207 TIC=1094000 AV SU Acnt:VG#2 Sys:VOA91
Text:08/15/92 _TIME_1011 _ MM2011_AVE_(726-728)-SCPT=0 Cal:

Mass	Abs. Ht	% Mass
177	10000	4.1
207	1000	0.4

MM2011 #15-890 15-AUG-92 10:11 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 1938000

Text:



000050

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK07

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: MM2031

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

% Moisture: not dec. Date Analyzed: 08/15/92

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

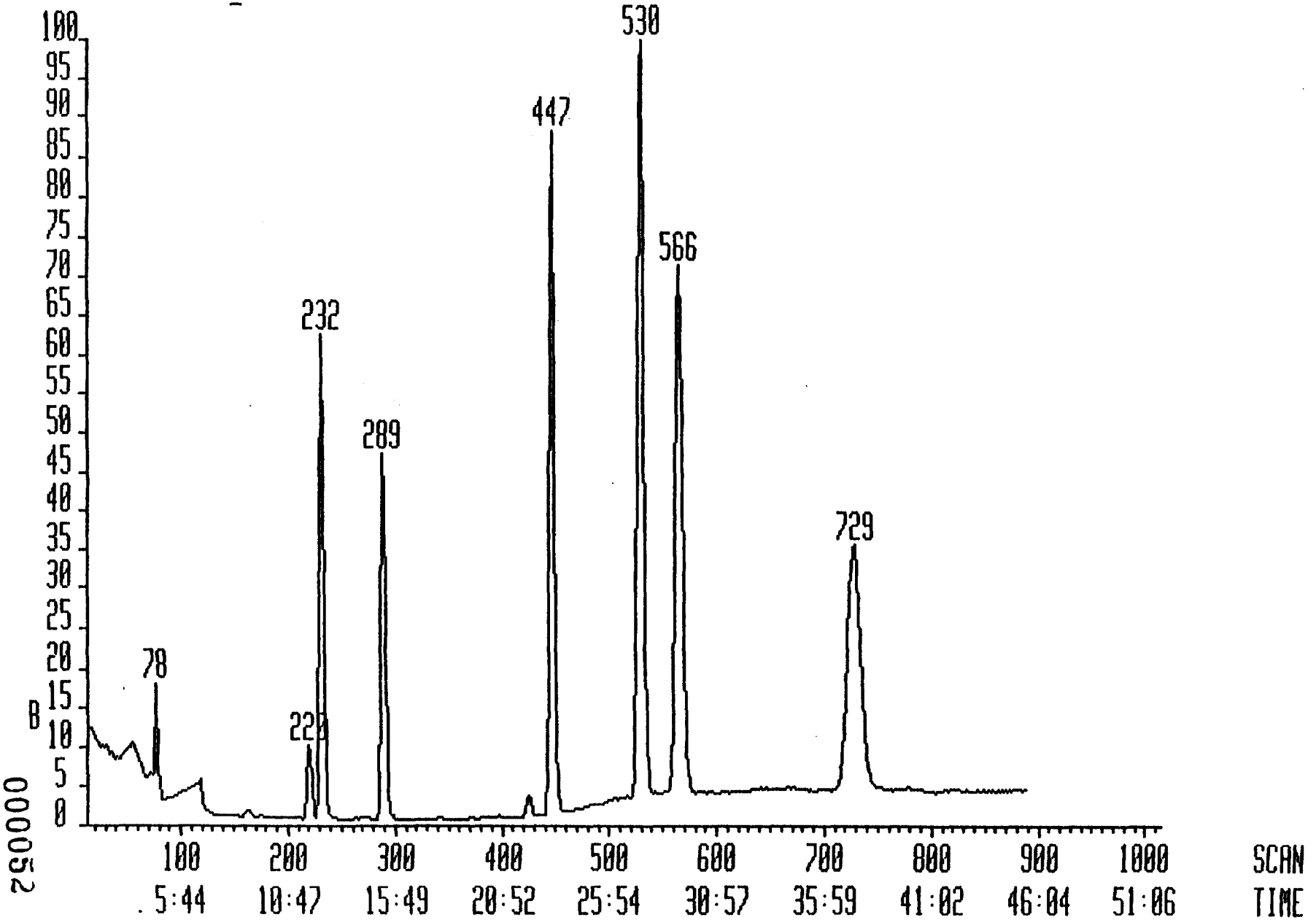
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

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	5	J
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

MM2031 #15-889 15-AUG-92 11:54 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 12252000

Text:VBLK07_ 00000



000052

Interim Report Sample Analysis 16-AUG-92 21:31:04

Datafile: MM2031 15-AUG-92 11:54
Database: VOA91M
Library: VOA91

Instrument: VG#2
Account: VG#2
Text: VBLK07_ 00000

QRE
M. A.
9/10/92

No.	Rank	Spectrum Match	Spectrum Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	99	92	99	-2	4889000	bb	232	234	128	Bromochloromethane
2	97	86	98	-1	8146000	bb	289	290	65	1,2-Dichloroethane-d4
3	40	0	74	0	13000	bb	31	31	50	Chloromethane
	30	0	74	18	3000	bb	49			
4	43	3	78	0	33000	v?	66	66	94	Bromomethane
	39	2	72	2	13714	??	68			
	37	2	71	5	7143	??	71			
5	41	0	77	1	3000	bb	87	86	62	Vinyl Chloride
	32	0	77	18	3000	bb	104			
6	35	1	66	-1	3000	bb	113	114	64	Chloroethane
	32	0	64	5	3000	bb	119			
7	74	47	96	-2	137000	bb	163	165	84	Methylene Chloride
8	57	20	98	-7	137000	vv	176	183	43	Acetone
	43	6	75	-1	23000	??	182			
	42	5	75	1	21000	??	184			
9	51	25	71	-1	79000	bb	195	196	76	Carbon Disulfide
	25	10	40	5	3000	bb	201			
10	96	82	99	-1	1164000	bb	220	221	96	1,1-Dichloroethene
11	No Trace Found							251	63	1,1-Dichloroethane
12	36	6	62	-1	14000	bb	263	264	96	1,2-Dichloroethene (to
13	24	2	43	-1	13000	bb	277	278	83	Chloroform
14	No Trace Found							293	62	1,2-Dichloroethane
15	52	0	99	-1	64000	vb	290	291	43	2-Butanone
	44	1	84	3	5000	?b	294			
	43	6	84	-8	6000	bb	283			
16	84	60	99	-1	22410000	bb	447	448	114	1,4-Difluorobenzene
17	No Trace Found							321	97	1,1,1-Trichloroethane
18	No Trace Found							330	117	Carbon Tetrachloride
19	No Trace Found							0	1	
20	No Trace Found							340	83	Bromodichloromethane
21	No Trace Found							369	63	1,2-Dichloropropane
22	No Trace Found							374	75	cis-1,3-Dichloropropen
23	52	14	85	-1	14000	bb	383	384	130	Trichloroethene
24	No Trace Found							400	129	Dibromochloromethane
25	9	0	23	-19	3000	bb	383	402	97	1,1,2-Trichloroethane
26	39	13	61	1	75000	bb	395	394	78	Benzene
27	No Trace Found							401	75	trans-1,3-dichloroprop
28	No Trace Found							0	1	
29	No Trace Found							459	173	Bromoform
30	90	72	99	-1	19990000	bv*	565	566	117	Chlorobenzene-d5
31	85	62	99	-1	11898260	bv	729	730	95	4-Bromofluorobenzene
32	84	64	95	-1	27114820	bv	530	531	98	Toluene-d8
33	58	26	82	0	22450	??	466	466	43	4-Methyl-2-Pentanone
	54	24	82	4	22875	??	470			
	53	20	81	-2	17150	??	464			
34	59	26	86	-1	28333	??*	498	499	43	2-Hexanone
	54	24	89	8	4364	??	507			
	53	25	85	-7	9000	??	492			
35	No Trace Found							505	164	Tetrachloroethene
36	45	4	82	-2	5000	??*	507	509	83	1,1,2,2-Tetrachloroeth

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	43	3	81	-4	11000	??	505			
	36	2	74	8	5000	??	517			
37	42	2	77	-1	121000	bb	535	536	91	Toluene
	16	0	34	9	17000	bb	545			
	16	0	31	5	6000	bb	541			
38	43	2	78	0	94000	bb	571	571	112	Chlorobenzene
	35	1	66	-2	94000	bb	569			
	26	0	58	-12	3000	bb	559			
39	33	3	59	0	7000	bb	638	638	106	Ethylbenzene
40	38	4	68	1	69000	??	780	779	104	Styrene
	36	4	66	-2	13000	??	777			
	32	3	60	3	26000	??	782			
41	---------- No Trace Found ----------							791	106	m-Xylene
42	41	6	75	-4	29000	??	823	827	106	o-/p-Xylene
	40	5	71	1	16000	?b	828			
	39	5	69	-1	13000	??	826			
43	---------- No Trace Found ----------							0	-	

MM2031