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WATER ANALYSIS FOR SAAD WASTE OIL SITE

Nashville, TN

Project No. 3-70-69190499

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INTRODUCTION

On September 13, 1986, 10 water samples and one oil sample from the Saad Waste Oil Site in Nashville, Tennessee were received by Enviresponse, Inc. They were submitted to Clayton Environmental Consultants for priority pollutant volatile organics, PCB/Pesticides, and Base Neutral/Acid Extractables analyses plus chlorides, bromides, and 15 metals. In addition, oil fingerprinting analyses were performed.

PROCEDURES

All priority pollutant organics and metals analyses were conducted in accordance with Contract Lab Program (CLP) protocols. Method blank results for all priority pollutant parameters were below the required limit of detection.

Volatile Organics Analysis: All water samples were analyzed by purge and trap-GC/MS. The oil sample was dissolved in methanol and a portion of the methanol was injected into water for purge and trap-GC/MS analysis.

PCB/Pesticides Analysis: Water samples were serially extracted with methylene chloride, concentrated to a final volume of 1 ml, and solvent exchanged with iso-octane. The oil sample was dissolved in iso-octane. All samples were analyzed by electron capture detector-gas chromatography (ECD-GC). GC/MS confirmation was not performed for sample parameters which were undetected or below the method detection limit for GC/MS. Confirmation of PCBs in sample 7334, oil and water, were performed using capillary column ECD-GC.

Base Neutral/Acid Extractables: Water samples were serially extracted with methylene chloride after treatment with NaOH to raise the pH to 12. The water was then acidified to a pH less than 2 and serially extracted with methylene chloride. The extracts were combined and concentrated to a final volume of 1 ml. The oil sample was diluted with methylene chloride. Sample extracts were then analyzed by GC/MS.

Metals: The water samples were analyzed according to EPA Document 600-4-79-020, Methods for the Examination of Water and Wastewater. The oil sample was analyzed according to EPA Document SW 846, Method 3050, Test Methods for Evaluating Solid Waste.

Chlorides/Bromides: The analysis of the water samples was performed according to EPA Document 600-4-790-20, Method 300.1, Methods for the Examination of Water and Wastewater.

Oil Fingerprinting: The water samples were extracted with Freon prior to flame ionization detector-gas chromatography (FID-GC) analysis. The oil sample was diluted using Freon. No. 2 diesel fuel was diluted with Freon to various concentrations and analyzed by FID-GC. The chromatograms of the oil and water extracts were analyzed and compared to the diesel fuel chromatograms.

Results and detection limits for the above described analyses are presented in Tables 1-11.

Table 1. Detection Limits for Volatile Organics Analysis

Parameter	Detection Limit (water) ug/l	Detection Limit (oil) ug/g
Chloromethane	10	50
Bromomethane	10	50
Vinyl Chloride	10	50
Chloroethane	10	50
Methylene Chloride	5	25
Trichlorofluoromethane	1	25
1,1-Dichloroethylene	5	25
1,1-Dichloroethane	5	25
Trans-1,2-Dichloroethylene	5	25
Chloroform	1	25
1,2-Dichloroethane	5	25
1,1,1-Trichloroethane	5	25
Carbon Tetrachloride	5	25
Bromodichloromethane	5	25
1,2-Dichloropropane	7	35
Trans-1,3-Dichloropropylene	5	25
Trichloroethylene	5	25
Dibromochloromethane	5	25
1,1,2-Trichloroethane	5	25
Benzene	5	25
cis-1,3-Dichloroporpane	5	25
2-Chloroethylvinyl ether	10	50
Bromoform	5	25
Tetrachloroethylene	5	25
Toluene	1	25
Chlorobenzene	5	25
Ethylbenzene	5	25
1,3-Dichlorobenzene	15	75
1,4-Dichlorobenzene	15	75
1,2-Dichlorobenzene	7	35

Table 2. Results of Volatile Organics Analysis

Sample No.	Parameter	Concentration
Water		(reported as ug/l)
7331	Trichloroethylene	<5
7332	None Detected	---
7333	None Detected	---
7334	Vinyl chloride	9800
	Methylene chloride	5500
	1,1-Dichloroethane	1700
	Trans-,2-dichloroethylene	52000
	1,1,1-Trichloroethane	6300
	Trichloroethylene	30000
	Tetrachloroethylene	9600
	Toluene	4600
	Ethyl benzene	500
7335	Chloroform	<1
	Toluene	<1
7341	Chloroethane	130
	Methylene chloride	6.0
	1,1-Dichloroethane	8.0
7342	None Detected	---
7344	Trans-1,2-dichloroethylene	<5
	Tetrachloroethylene	6.0
7345	Trans-1,2-dichloroethylene	<5
	Trichloroethylene	7.0
	Tetrachloroethylene	6.0
7346	Trans-1,2-dichloroethylene	<5
	Toluene	<5
7353	None Detected	---

Table 2. Results of Volatile Organics Analysis (Cont'd)

Sample No.	Parameter	Concentration
Oil		(reported as ug/g)
7334	Vinyl chloride	290.
	Methylene chloride	670.
	1,1-Dichloroethane	130
	Trans-1,2-dichloroethylene	4200.
	1,1,1-Trichloroethane	1700.
	Trichloroethylene	4800
	Tetrachloroethylene	4800.
	Toluene	1300.
	Ehtyl benzene	230.

Table 3. Detection Limits for PCB/Pesticides Analysis

Parameter	Detection Limit (water) ug/l	Detection Limit (oil) ug/kg
α BHC	.05	78
β BHC	.05	78
δ BHC	.05	78
Δ BHC (Lindane)	.05	78
Heptachlor	.05	78
Aldrin	.05	78
Heptachlor Epoxide	.05	78
Endosulfan I	.05	78
Dieldrin	.10	160
4,4'-DDE	.10	160
Endrin	.10	160
Endosulfan II	.10	160
4,4'-DDD	.10	160
Endosulfan Sulfate	.10	160
4,4'-DDT	.10	160
Methoxychlor	.50	780
Endrin Ketone	.10	160
Chlordane	.50	780
Toxaphene	1.0	1600
Aroclor 1016	.50	780
Aroclor 1221	.50	780
Aroclor 1232	.50	780
Aroclor 1242	.5	780
Aroclor 1248	.5	780
Aroclor 1254	1.0	1600
Aroclor 1260	1.0	1600

Table 4. Results of PCB/Pesticides Analysis

Sample No.	Parameter	Concentration
Water		(reported as ug/l)
7332	None Detected	---
7333	None Detected	---
7334	Aroclor 1242 Aroclor 1260	130. 74
7335	None Detected	---
7341	None Detected	---
7342	None Detected	---
7344	None Detected	---
7346	None Detected	---
7353	None Detected	---
Oil		(reported as ug/g)
7334	Aroclor 1242 Aroclor 1260	36.0 17.0

Table 5. Detection Limits for Base Neutral/Acid Extractables Analysis

Parameter	Detection Limit (water) ug/l	Detection Limit (oil) ug/kg
N-nitrosodimethylamine	11	120
Phenol	10	110
bis(2-chloroethyl)ether	10	110
2-Chlorophenol	10	110
1,3-Dichlorobenzene	10	110
1,4-Dichlorobenzene	10	110
1,2-Dichlorobenzene	10	110
bis(2-Chloroisopropyl)ether	10	110
N-nitroso-di-n-propylamine	10	110
Hexachloroethane	10	110
Nitrobenzene	10	110
Isophorone	10	110
2-Nitrophenol	10	110
2,4-Dimethylphenol	10	150
bis(2-Chloroethoxy)methane	10	110
2,4-Dichlorophenol	10	110
1,2,4-Trichlorobenzene	10	110
Naphthalene	10	150
Hexachlorobutadiene	10	110
2,4,6-Trichlorophenol	10	110
2-Chloronaphthalene	10	110
Dimethyl phthalate	10	110
Acenaphthylene	10	110
Acenaphthene	10	110
2,4-Dinitrophenol	50	560
4-Nitrophenol	50	560
2,4-Dinitrotoluene	10	110
2,6-Dinitrotoluene	10	110
Diethylphthalate	10	110
4-Chlorophenyl-phenylether	10	110
Fluorene	10	110
4,6-Dinitro-2-methylphenol	50	560
N-Nitrosodiphenylamine	10	110
4-Bromophenyl-phenylether	10	110
Hexachlorobenzene	10	110
Pentachlorophenol	50	560
Phenanthrene	10	110
Anthracene	10	110
Di-n-butylphthalate	10	110
Fluoranthene	10	110
Benzidene	160	1800
Pyrene	10	110
Butylbenzylphthalate	10	110
3,3'-Dichlorobenzidene	28	310

Table 5. Detection Limits for Base Neutral/Acid Extractables Analysis (Cont'd)

Parameter	Detection Limit (water) ug/l	Detection Limit (oil) ug/kg
Benzo(a)anthracene	10	110.
bis(2-ethylhexyl)phthalate	10	110
Chrysene	10	110.
Di-n-octylphthalate	10	110.
Benzo(b)fluoranthene	11	120.
Benzo(k)fluoranthene	10	110.
Benzo(a)pyrene	10	110.
Indeno(1,2,3-cd)pyrene	13	150.
Dibenzo(a,h)anthracene	16	180.
Benzo(g,h,i)perylene	17	190

Table 6. Results for Base Neutral/Acid Extractables Analysis

Sample No.	Parameter	Concentration
Waters		reported as ug/l
7332	Diethylphthalate*,**	<10.
	bis(2-ethylhexyl)phthalate	78.
7333	Diethylphthalate*,**	<10.
	Di-n-butylphthalate*,**	<10.
7334	Phenol	1900.
	2,4-Dimethylphenol	4900.
	Napthalene**	150.
	4-Chloro-3-methylphenol**	160.
	bis(2-ethyl hexyl)phthalate	180.
7335	None Detected	--
7341	Diethylphthalate*,**	< 10.
	bis(2-ethylhexyl)phthalate	22.
	Di-n-octylphthalate**	< 10
7342	Diethylphthalate	<10
7344	Diethylphthalate*,**	<10
	bis(2-ethylhexyl)phthalate	<10
7345	Di-n-butylphthalate**	<10
	bis(2-ethylhexyl)phthalate	72.
7346	Diethylphthalate*,**	< 10
7353	Phenol**	<10
	Fluorene**	<10
	Butylbenzylphthalate	12.
	bis(2-ethylhexyl)phthalate	<10
	Di-n-octyl phthalate	<10

* Compound was also detected in the method blank.
** Value is below the limit of quantification.

Table 6. Results for Base Neutral/Acid Extractables Analysis (Cont'd)

Sample No.	Parameter	Concentration
Oil		reported as ug/g
7334	Naphthalene	150
	2,4-Dimethylphenol	150
	Hexachlorobutadiene**	20
	Fluorene**	24
	Phenanthrene**	92
	Anthracene**	11
	Fluoranthene**	18
	Pyrene**	18
	Butylbenzylphthalate**	27
	Bis(2-ethyl hexyl)phthalate	410

*Compound was also found in the method blank.

**Value is approxmate due to its proximity to the detection limit.

Table 7. Detection Limits for Metals Analysis

(Concentration reported as mg/l)

Parameter	Total Concentration	Dissolved Concentration
Arsenic	.001	NA
Aluminum	.10	.20
Barium	.03	NA
Beryllium	.003	NA
Boron	2.0	NA
Cadmium	.003	NA
Chromium	.005	NA
Copper	.005	NA
Iron	.005	.01
Lead	.02	NA
Manganese	.005	.01
Nickel	.01	NA
Selenium	.002	NA
Vanadium	.10	NA
Zinc	.005	NA

NA denotes not analyzed

Table 8. Results of Total Metals Analysis - Waters

Concentrations reported in mg/l

Parameter	Sample No.									
	7346 (Blank)	7332	7333	7334	7335	7353	7341	7342	7344	7345
Arsenic	ND	.003	ND	.14	ND	.012	.008	.001	ND	ND
Aluminum	ND	7.8	.10	.20	.10	6.5	4.1	.40	.20	.20
Barium	.060	.11	ND	.44	ND	.10	.090	ND	ND	ND
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron	3.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	.009	.009	.007	.026	.006	.008	.005	.005	.006	.006
Chromium	ND	.019	ND	.005	ND	.016	.030	ND	ND	ND
Copper	.010	.032	.011	.016	.010	.033	.021	.011	.010	.007
Iron	.30	7.4	.84	38.	.30	9.3	20.	1.2	.18	.35
Lead	.12	.10	.080	.080	.060	.090	.080	.060	.080	.060
Manganese	.017	1.8	1.7	31.	.019	1.4	1.9	.74	.065	.065
Nickel	.020	.080	.050	.11	.030	.050	.080	.020	.030	.030
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	.018	.091	.025	.043	.017	6.5	4.1	.40	.20	.20

ND denotes not detected

Table 8. Results of Metals Analysis - Oil

(Concentrations reported as ug/g)

Sample No. 7334

Parameter	Concentration	Detection Limit
Aluminum	1000	50.
Arsenic	8.4	.50
Barium	54.	15.
Beryllium	ND	2.0
Boron	ND	750
Cadmium	4.0	2.0
Chromium	30.	3.0
Copper	7	3.0
Iron	711	3.0
Lead	23.	10.
Manganese	78.	3.0
Nickel	5.5	5.0
Selenium	ND	1.0
Vanadium	ND	50.
Zinc	44.	3.0

ND denotes not detected

Table 9. Results of Dissolved Metals Analysis

Concentrations in mg/l

Parameter	Sample No.								
	7346 (Blank)	7332	7333	7335	7353	7341	7342	7344	7345
Aluminum	ND	.30	ND	ND	ND	ND	ND	.30	ND
Manganese	.020	.050	1.8	.030	1.3	1.8	.12	.080	.070
Iron	.20	.34	.58	.17	1.0	1.7	.27	.38	.22

ND denotes not detected

Table 10. Results of Chlorides and Bromides Analysis

(Concentrations in mg/l)

Sample No.	Chlorides	Bromides
Method Blank	ND	ND
7332	4.0	ND
7333	11.	ND
7334	310	11.
7335	6.4	ND
7341	22.	ND
7342	64	ND
7344	11.	ND
7345	11.	ND
7346	ND	ND
7353	10.	ND

ND denotes not detected. Detection limits were .5 mg/l for chlorides and 1.0 ug/l for bromides.

QA/QC PROCEDURES

Volatile Organics Analysis: Three surrogate standards were spiked into each sample prior to analysis to ensure the efficiency of the purge and trap unit. Recoveries for these standards are presented in QA/QC Table 12. The recoveries for water ranged from 85% - 106% and for the oil sample from 84% - 106%.

One water sample (7331) and the oil sample (7334) were analyzed in duplicate to determine sample homogeneity. The results are presented in QA/QC Table 13. Methylene chloride was detected in the water sample but not in the duplicate. Methylene chloride was also detected in the method blank. This is a common laboratory solvent and is often seen as contamination during sample analysis. Its presence at detection limit levels in one sample and not in a duplicate can be disregarded since the background in a laboratory can vary. The relative percent differences for the oil sample ranged from 0 to 16 indicating good sample homogeneity.

A water sample, 7346, and the oil sample, 7334, were spiked with five volatile organics to determine any matrix interferences that may be present. These results are listed in QA/QC Table 14. Recoveries ranged from 86% - 106% for the water and from 90% - 120% for the oil and were within the QA/QC limits for this laboratory.

PCB/Pesticides Analysis: All water samples and standards were spiked with dibutyl chlorendate to assure proper instrument performance. These surrogate standard results are presented in QA/QC Table 15. The recovery for two samples, 7332, its duplicate, and 7334, could not be calculated due to a contamination peak that coeluted with dibutyl clorendate. All other recoveries were within the QA/QC limits of the laboratory. CLP protocols do not require surrogate spiking for oil matrices.

One water sample, 7332, was analyzed in duplicate to determine sample homogeneity. PCBs and pesticides were undetected in both. The oil sample, 7334, was also analyzed in duplicate. Results for the oil sample are presented in QA/QC Table 16. The relative percent difference for Aroclor 1242 and Aroclor 1260 were 2.8 and 6.1, respectively.

One water sample was spiked with six pesticides to determine the presence of matrix interferences. Results are presented in QA/QC Table 17. All compounds except 4,4'-DDT were within the laboratory's QA/QC limits.

Base Neutral/Acid Extractables Analysis: All water samples and method blanks were spiked with three surrogate standards to ensure extraction efficiency. The results are presented in QA/QC Table 18. Surrogate spiking was not required for the oil sample since the sample preparation does not include an extraction process. Recoveries for water sample 7334 could not be determined due to high levels of phenol and 2,4-dimethyl phenol which required dilution of the extract prior to analysis. All other surrogate standard recoveries were within the QA/QC limits of the laboratory.

The results of duplicate analyses of water sample 7332 and oil sample 7334 are presented in QA/QC Table 19. Relative percent difference for diethylphthalate was not calculated because its concentration was less than the method limit of quantification. Bis(2-ethylhexyl)phthalate was found at 78 ug/l in the sample but undetected in the duplicate. Reproducibility for three compounds above the limit of quantification found in the oil sample ranged from 0-6.4 relative percent difference.

Results of the matrix spike analysis for water sample 7346 and the oil sample are presented in QA/QC Table 20. All recoveries were within the QA/QC limits of the laboratory.

Metals Analysis: The results of duplicate metals analyses are presented in QA/QC Table 21. Relative percent differences for the water ranged from 0-26. For the oil sample, relative percent difference ranged from 0 to 25.

One water sample was spiked with fifteen metals to determine any matrix interferences. Results are presented in QA/QC Table 22. Recoveries ranged from 93-134%. The oil sample was also spiked with fifteen metals as shown in QA/QC Table 22. Recoveries ranged from 61 to 112% for all compounds except selenium. Recovery for selenium was 3%. Historical data for selenium in oil indicates low recoveries are usual.

Chlorides/Bromides Analysis: Duplicate chlorides and bromides results are presented in QA/QC Table 23. Water sample 7341 was analyzed in duplicate and showed no relative percent difference for chlorides. Bromides were undetected in the sample and duplicate.

Matrix spike results for chlorides and bromides are presented in QA/QC Table 24. One sample, 7341, was spiked with both analytes and two other water samples, 7344 and 7335, were spiked with chlorides and bromides, respectively. Recoveries ranged from 96-110%.

Oil Fingerprinting: Two deionized water samples were spiked with 5 ul of pure diesel fuel oil to determine extraction efficiency. Quantification of the oil was performed by selecting the twelve highest peak area responses and comparing to a diesel fuel standard. Recoveries were 110% and 114%.

QA/QC Table 12. Surrogate Standard Recoveries for Volatile Organic Analysis

Sample No.	% Recovery		
	Toluene-D8	4-Bromofluorobenzene	1,2-Dichloroethane-D4
Water			
7331	103.	106.	99.
7332	101.	98.	102.
7332 (Duplicate)	101.	100.	102
7333	96.	100.	97.
7334 (water)	94.	100.	99.
7335	101.	98.	97.
7341	91.	106.	101.
7342	98.	100.	93.
7344	105.	101.	93.
7345	100.	102.	92.
7346	102.	99.	100.
7353	99.	102.	85.
7346 MS	99.	99.	100.
Method Blank I	98.	101.	101.
Method Blank II	100.	104.	90.
Method Blank III	101.	103.	95.
Oil			
7334	87.	98.	95.
7334 MS	97.	104.	87.
7334 (Duplicate)	102	106.	84.
Method Blank	93.	107.	86.

QA/QC Table 13. Results of Duplicate Volatile Organics Analysis

Parameter	Run 1	Run 2	RPD
Sample No. 7331 (water) - Concentrations reported as ug/l			
Methylene chloride	<5	ND	--
Sample No. 7334 (oil) - Concentrations reported as ug/g			
Vinyl chloride	290.	300.	3.4
Methylene chloride	670.	570.	16.
1,1-Dichloroethane	130.	130.	0.
Trans-1,2-dichloroethylene	4200.	4000.	4.9
1,1,1-Trichloroethane	1700.	1700.	0
Trichloroethylene	4800.	4900.	2.1
Tetrachloroethylene	4800.	5600.	15.
Toluene	1300.	1400.	7.4
Ethyl benzene	230.	270.	16.

RPD denotes relative percent difference

QA/QC Table 14. Results of Matrix Spike Volatile Organics Analysis

Parameter	Spike Conc.	Sample Conc.	Recovered Conc.	% Recovery
Sample No. 7346 (water) - concentrations reported as ug/l				
1,1-Dichloroethane	50.	ND	43.	86.
Trichloroethylene	50.	ND	52.	104.
Chlorobenzene	50.	ND	51.	102.
Toluene	50.	.6	50.	99.
Benzene	50.	ND	53.	106.
Sample 7334 (oil) - concentrations reported as ug/g				
1,1-Dichloroethane	3100	ND	2800	90.
Trichloroethylene	3100	4800	8500	120.
Chlorobenzene	3100	ND	3300	106.
Toluene	3100	1300	4500	103.
Benzene	3100	ND	2900	94.

QA/QC Table 15. Surrogate Standard Recoveries for PCB/Pesticides Analysis

Sample No.	Parameter	% Recovery
7332	Dibutyl Chlorendate	*
7332 Duplicate	Dibutyl Chlorendate	*
7333	Dibutyl Chlorendate	97.0
7334	Dibutyl Chlorendate	*
7335	Dibutyl Chlorendate	88.0
7341	Dibutyl Chlorendate	53.0
7342	Dibutyl Chlorendate	86.0
7344	Dibutyl Chlorendate	91.0
7345	Dibutyl Chlorendate	90.0
7346	Dibutyl Chlorendate	102.0
7346 MS	Dibutyl Chlorendate	86.0
7353	Dibutyl Chlorendate	101.0
Method Blank	Dibutyl Chlorendate	93.0

*Surrogate standard recovery could not be calculated due to coelution of dibutyl chlorendate with interference peak.

QA/QC Table 16. Results of Duplicate PCB/Pesticides Analysis

Concentrations in ug/g

Parameter	Run 1	Run 2	RPD
Sample 7334 (Oil)			
Aroclor 1242	36.	35.	2.8
Aroclor 1260	17.	16.	1.06

RPD denotes relative percent difference

QA/QC Table 17. Results of Matrix Spike PCB/Pesticides Analysis

Concentrations reported as ug/l

Parameter	Spike Conc.	Sample Conc.	Recovered Conc.	% Recovery
Sample No. 7332 (water)				
Lindane	.20	ND	.19	95.
Heptachlor	.20	ND	.14	70.
Aldrin	.20	ND	.12	60.
Dieldrin	.50	ND	.43	86.
Endrin	.50	ND	.44	88.
4,4'-DDT	.50	ND	.66	130.

QA/QC Table 18. Surrogate Standard Recoveries for Base Neutral/Acid Extractables

Sample No.	% Recovery		
	2-Fluorophenol	2-Fluorobiphenyl	2,4,6-Tribromophenol
7332	50.	63.	48.
7332 (duplicate)	51.	59.	50.
7333	58.	66.	81.
7334 (water)	*	*	*
7334 (oil)	not required	not required	not required
7335	57.	80.	65.
7341	53.	76.	71.
7342	55.	69.	68.
7344	52.	78.	58.
7345	47	87.	62.
7346	62.	57.	96.
7346 MS	60.	65.	76.
7353	56.	66.	58.
Method Blank	59.	70.	82.

*Surrogate standards were diluted out due to high concentrations of phenol and 2,4-dimethylphenol in sample.

QA/QC Table 19. Results of Duplicate Base Neutral/Acid Extractables Analysis

Parameter	Run 1	Run 2	RPD
Sample 7332 (water) - concentrations reported as ug/l			
Diethylphthalate	<10	<10	--
Bis(2-ethylhexyl)phthalate	78	ND	--
Sample 7334 (oil) - concentrations reported as ug/g			
2,4-Dimethylphenol	150.	160.	6.4
Naphthalene	150.	150.	0
Hexachlorobutadiene	<110.	<110.	--
Fluorene	<110.	<110.	--
Phenanthrene	<110.	<110.	--
Anthracene	<110.	<110.	--
Fluoranthene	<110.	ND	--
Pyrene	<110.	<110.	--
Butylbenzylphthalate	<110.	<110.	--
Bis(2-ethylhexyl)phthalate	410.	400.	2.5

QA/QC Table 20. Results of Matrix Spike Base Neutral/Acid Extractables Analysis

Concentrations reported as ug/l

Sample 7346 water:

Parameter	Spike Conc.	Sample Conc.	Recovered Conc.	% Recovery
1,2,4-Trichlorobenzene	130	ND	69.	53.
Acenapthene	130	ND	89.	68.
2,4-Dinitrotoluene	130	ND	120	92.
Pyrene	130	ND	150	115
N-nitroso-di-n-propylamine	130	ND	89.	68.
1,4-Dichlorobenzene	130	ND	66.	51.
Pentachlorophenol	270	ND	240	89
Phenol	270	ND	120	44.
2-Chlorophenol	270	ND	200	73.
4-Chloro-3-methylphenol	270	ND	230	85.
4-Nitrophenol	270	ND	100	37.

QA/QC Table 21. Results of Duplicate Metals Analysis

Concentrations reported as mg/l

Parameter	Run 1	Run 2	RPD
Total Metals:	Sample No. 7335 (water)		
Arsenic	ND	ND	--
Aluminum	.1	.1	0
Barium	ND	ND	--
Beryllium	ND	ND	--
Boron	ND	ND	--
Cadmium	.006	.006	0
Chromium	ND	ND	--
Copper	.010	.008	22.
Iron	.30	.39	26.
Lead	.06	.06	0
Manganese	.019	.017	11.
Nickel	.03	.03	0
Selenium	ND	ND	--
Vanadium	ND	ND	--
Zinc	.017	.018	5.7
Dissolved Metals:	Sample 7341 (water)		
Manganese	1.8	1.8	0
Iron	1.7	1.7	0
Aluminum	ND	ND	--
Total Metals:	Sample 7334 (oil) - concentrations in ug/g		
Aluminum	8.4	8.2	2.4
Barium	54.	47.	4.7
Beryllium	ND	ND	--
Boron	ND	ND	--
Cadmium	4.0	4.0	0
Chromium	30.	31.	3.3
Copper	7.0	9.0	25.
Iron	711	710	.14
Lead	23.	22.	4.4
Manganese	78	94	19.
Nickel	5.5	5.4	1.8
Selenium	ND	ND	--
Vanadium	ND	ND	--
Zinc	44.	49.	11

QA/QC Table 22. Results of Matrix Spike for Metals Analysis

Parameter	% Recovery
Sample 7335 - Water	
Arsenic	95.
Aluminum	106
Barium	126
Beryllium	101
Boron	93.
Cadmium	95.
Chromium	94.
Copper	93.
Iron	93.
Lead	95.
Manganese	134
Nickel	113
Selenium	95.
Vanadium	126
Zinc	123
Sample 7334 - Oil	
Arsenic	61.
Aluminum	88.
Barium	112
Beryllium	66.
Boron	76.
Cadmium	94.
Chromium	107
Copper	100
Iron	78.
Lead	107
Manganese	100
Nickel	92.
Selenium	3.0
Vanadium	107
Zinc	89.

QA/QC Table 23. Results of Duplicate Chlorides and Bromides Analysis

Concentrations in mg/l

Sample No.	Chlorides			Bromides		
	Run 1	Run 2	RPD	Run 1	Run 2	RPD
7341	22.	22.	0	ND	ND	--

QA/QC Table 24. Results of Matrix Spike
for Chlorides and Bromides Analysis

Sample No.	% Recovery Chloride	% Recovery Bromides
7341	98.	110
7344	96.	---
7335	--	98.

GC/MS TUNING AND MASS CALIBRATION

2 2 011-01 0363

Bromofluorobenzene (BFB)

Client ~~Case~~ No. Envirespance Contractor Clayton Environmental Contract No N/A

Instrument ID 2-B Date 6-11-86 Time 7:19

Lab ID B4012 Data Release Authorized By: [signature]

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	15.87
75	30.0 - 60.0% of the base peak	44.14
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of the base peak	5.62
173	Less than 1.0% of the base peak	0.00
174	Greater than 50.0% of the base peak	55.56
175	5.0 - 9.0% of mass 174	4.70 (8.46) [1]
176	Greater than 95.0%, but less than 101.0% of mass 174	53.85 (96.92) [1]
177	5.0 - 9.0% of mass 176	3.30 (6.13) [2]

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

[1] Value in parenthesis is % mass 174
[2] Value in parenthesis is % mass 176.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
50 PPB VOA Std	> B4014	6-11-86	9:52
200 PPB VOA Std	> B4015	6-11-86	11:27
150 PPB VOA Std	> B4016	6-11-86	12:25
20 PPB VOA Std	> B4018	6-11-86	14:29
100 PPB VOA Std	> B4019	6-11-86	15:58

011-02
2 2 0364

GC/MS TUNING AND MASS CALIBRATION

4-Bromofluorobenzene (BFB)

Client ~~Case No.~~ Envir.response Contractor Clayton Env.

Instrument ID 2-8 Date / Time 9/03/86 15:06

Lab ID >B4964::EE Data Release Authorized By: Daryl Strandright

Scans Used 90-84

m/z	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	17.70 OK
75	30.0 - 60.0% of the base peak	39.57 OK
95	base peak, 100% relative abundance	100.00 OK
96	5.0 - 9.0% of the base peak	7.61 OK
173	less than 1.0% of base peak	0.00 OK
174	greater than 50.0% of the base peak	70.36 OK
175	5.0 - 9.0% of mass 174	5.46 OK (7.755) #1
176	greater than 95.0%, but less than 101.0% of mass 174	67.54 OK (95.99) #1
177	5.0 - 9.0% of mass 176	4.33 OK (6.415) #2

#1 - value is % mass 174 #2 - value is % mass 176

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS, AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
50ppb VOA Std	> B4965	9-3-86	15:52
20ppb VOA Std	> B4966	9-3-86	17:06
100ppb VOA Std	> B4967	9-3-86	17:52
150ppb VOA Std	> B4968	9-3-86	18:38
200ppb VOA Std	> B4969	9-3-86	19:27

Analyst BG

047

Checked by RMU

FORM V 7/85

GC/MS TUNING AND MASS CALIBRATION

011-03
2 2 0365

Bromofluorobenzene (BFB)

Client ~~Case No.~~ Enviresponse Contractor [illegible] Contract No. N/A

Instrument ID 2 Date 9/21/86 Time 13:19

Lab ID B5120 Data Release Authorized By: [signature]

scan 62-58

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	19.35
75	30.0 - 60.0% of the base peak	44.83
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of the base peak	8.88
173	Less than 1.0% of the base peak	0
174	Greater than 50.0% of the base peak	69.60
175	5.0 - 9.0% of mass 174	5.65 (8.12)[1]
176	Greater than 95.0%, but less than 101.0% of mass 174	66.35 (95.32)[1]
177	5.0 - 9.0% of mass 176	5.65 (8.52)[2]

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

[1] Value in parenthesis is % mass 174
[2] Value in parenthesis is % mass 176.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
50ppb VOA STD	B5121	9/21/86	13:59
MBLK I 4/W	B5122	9/21/86	15:25
7331-	B5123 (493408)	9/21/86	16:57
7332-	B5124 (493409)	9/21/86	18:01
7332-DUP	B5125 (493409 Dup)	9/21/86	18:58
7333-	B5126 (493410)	9/21/86	19:55
7346-	B5127 (493412)	9/21/86	20:53
7346-MS	B5128 (493412 MS)	9/21/86	21:50
7335-	B5129 (493413)	9/21/86	22:47
7341-	B5131 (493415)	~~9/22/86~~ 9/22/86	00:42

GC/MS TUNING AND MASS CALIBRATION

011-04
2 2 0366

Bromofluorobenzene (BFB)

Client: ~~Case No.~~ Enviresponse Contractor Clayton Environmental Contract No. N/A

Instrument ID 2 Date 9/22/86 Time 09:27

Lab ID B5135 Data Release Authorized By: [signature]

65-62

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	15.50
75	30.0 - 60.0% of the base peak	44.35
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of the base peak	8.76
173	Less than 1.0% of the base peak	0
174	Greater than 50.0% of the base peak	74.13
175	5.0 - 9.0% of mass 174	4.83 (6.57) [1]
176	Greater than 95.0%, but less than 101.0% of mass 174	70.49 (95.09) [1]
177	5.0 - 9.0% of mass 176	4.41 (6.26) [2]

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

[1] Value in parenthesis is % mass 174
[2] Value in parenthesis is % mass 176.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
50ppb VOA STD	B5136	9/22/86	10:13
M-BLK II 4/w	B5137	9/22/86	11:22
7353-	B5138 (493414)	9/22/86	12:27
7342-	B5139 (493416)	9/22/86	13:21
7344-	B5140 (493417)	9/22/86	14:09
7345-	~~B5140~~ (493418) B5141	9/22/86	14:56

GC/MS TUNING AND MASS CALIBRATION

011-05
2 2 0367

Bromofluorobenzene (BFB)

Client: ~~Case No.~~ Envirespense Contractor Clayton Environmental Contract No. N/A

Instrument ID 2 Date 9/22/86 Time 22:16

Lab ID B5147 Data Release Authorized By: [signature]

65-62

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE	
50	15.0 - 40.0% of the base peak	15.65	
75	30.0 - 60.0% of the base peak	43.56	
95	Base peak, 100% relative abundance	100	
96	5.0 - 9.0% of the base peak	5.42	
173	Less than 1.0% of the base peak	0	
174	Greater than 50.0% of the base peak	78.36	
175	5.0 - 9.0% of mass 174	4.75	(6.06)[1]
176	Greater than 95.0%, but less than 101.0% of mass 174	74.92	(95.61)[1]
177	5.0 - 9.0% of mass 176	6.51	(8.69)[2]

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

[1] Value in parenthesis is % mass 174
[2] Value in parenthesis is % mass 176.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
50 ppb VOA STD	B5148	9/22/86	23:08
M-BLK III (1/w)	B5149	9/23/86	00:38
7334-	B5150 (493411)	9/23/86	02:01

GC/MS TUNING AND MASS CALIBRATION

011-06
2 2 0368

Bromofluorobenzene (BFB)

Client ~~Case~~ No. Enviresponse Contractor Clayton Environmental Contract No. N/A

Instrument ID 2-B Date 9-24-86 Time 8:14

Lab ID B5178 66-61 Data Release Authorized By: [signature]

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	15.00
75	30.0 - 60.0% of the base peak	43.77
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of the base peak	6.80
173	Less than 1.0% of the base peak	0.00
174	Greater than 50.0% of the base peak	76.28
175	5.0 - 9.0% of mass 174	5.30 (6.95)[1]
176	Greater than 95.0%, but less than 101.0% of mass 174	72.98 (95.67)[1]
177	5.0 - 9.0% of mass 176	5.47 (7.50)[2]

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

[1] Value in parenthesis is % mass 174
[2] Value in parenthesis is % mass 176.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
50ppb VOA STD	B5179	9/24/86	08:56
M-BLK I (M/O)	B5180	9/24/86	11:00
7334-	B5181 (493439)	9/24/86	12:10
7334-Dup	B5182 (493439 Dup)	9/24/86	13:56
7334-MS	B5183 (493439 MS)	9/24/86	15:10

2 2 0369

LABORATORY GENERATED INSTRUMENT LIMIT OF DETECTION

019-01 –

Instrument 2B

Organics Analysis Data Sheet
(Page 1)

MAYCO ENVIRONMENTAL CONSULTANTS, INC.

Laboratory Name: _____ Case No: _____

Lab Sample ID No: _____ QC Report No: _____

Sample Matrix: _____ Contract No: _____

Data Release Authorized By: _____ Date Sample Received: _____

Volatile Compounds / Priority Pollutants

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: _____

Date Analyzed: 2/18/86

Conc/Dil Factor: _____ pH _____

Percent Moisture: (Not Decanted) _____

CAS Number		* (ug/l) or ug/Kg (Circle One)
74-87-3	Chloromethane	8
74-83-9	Bromomethane	8
75-01-4	Vinyl Chloride	4
75-00-3	Chloroethane	5
75-09-2	Methylene Chloride	5
~~75-69-4~~	~~Trichlorofluoromethane~~	1
75-35-4	1, 1-Dichloroethene	4
75-34-3	1, 1-Dichloroethane	1
156-60-5	Trans-1, 2-Dichloroethene	3
67-66-3	Chloroform	3
107-06-2	1, 2-Dichloroethane	4
71-55-6	1, 1, 1-Trichloroethane	1
56-23-5	Carbon Tetrachloride	3
75-27-4	Bromodichloromethane	0.5

CAS Number		* (ug/l) or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	1 N
10061-02-6	Trans-1, 3-Dichloropropene	3
79-01-6	Trichloroethene	4
124-48-1	Dibromochloromethane	3
79-00-5	1, 1, 2-Trichloroethane	4
71-43-2	Benzene	3
10061-01-5	cis-1, 3-Dichloropropene	3
110-75-8	2-Chloroethylvinylether	3
75-25-2	Bromoform	2
127-18-4	Tetrachloroethene	1
79-34-5	1, 1, 2, 2-Tetrachloroethane	1
108-88-3	Toluene	3
108-90-7	Chlorobenzene	2
100-41-4	Ethylbenzene	3
541-73-1	1, 3-Dichlorobenzene	1.5 N
106-46-7	1, 4-Dichlorobenzene	1.5 N
95-50-1	1, 2-Dichlorobenzene	1 N

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit report the value

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

M Matrix spike compound

N Instrument limit of detection was used because it was higher than the CRDL

268A

A Indicates a value less than the diluted corrected limit of detection but greater than the CRDL

* Total (ug) instrument detection limits are 5x the (ug/L) limits

020-01

Calibration Report

Title: PRIORITY POLLUTANTS - METHOD 624
Calibrated: 060612 12:33

Compound	Files: >04010 RF 20.00	>04014 RF 50.00	>04019 RF 100.00	>04016 RF 150.00	>04015 RF 200.00	$\overline{RRT}$	$\overline{RF}$	% RSD	
CHLOROMETHANE	1.11393	1.04305	1.14548	1.22018	1.22026	.195	1.14856	6.547	
BROMOMETHANE	1.64796	1.54920	1.68261	1.69199	1.63025	.304	1.64040	3.465	
VINYL CHLORIDE	1.61127	1.47931	1.57849	1.71737	1.67622	.392	1.61253	5.714	
CHLOROETHANE	1.06440	1.02002	1.03961	1.12071	1.09044	.500	1.06704	3.748	
METHYLENE CHLORIDE	3.66654	1.94788	1.95402	1.91403	1.77252	.711	2.25100	35.305	
ACROLEIN	.08820	.08793	.08211	.08842	.07911	.776	.08516	5.035	
ACRYLONITRILE	.26860	.29340	.25664	.28039	.25723	.834	.27125	5.804	
TRICHLOROFLUOROMETHANE	1.78298	1.73679	1.65933	1.68836	1.67722	.895	1.70894	2.947	
1,1-DICHLOROETHENE	1.40903	1.42717	1.42169	1.44535	1.44668	.958	1.42998	1.123	
1,1-DICHLOROETHANE	2.55423	2.58322	2.53428	2.62864	2.70922	1.068	2.60192	2.678	
TRANS-1,2-DICHLOROETHENE	1.56917	1.63519	1.59451	1.63093	1.66346	1.125	1.61865	2.283	
CHLOROFORM	2.91259	2.89542	2.82105	2.84799	2.97202	1.178	2.88981	2.032	
D4-1,2-DICHLOROETHANE(SS)	1.33733	1.36520	1.39299	1.54014	1.60871	1.231	1.44887	8.199	(Conc=50.0,50.0,50.0,50.0,50.0)
1,2-DICHLOROETHANE	1.37143	1.36043	1.29880	1.34976	1.39236	1.241	1.35457	2.576	
1,1,1-TRICHLOROETHANE	.40391	.41736	.40271	.41655	.42750	.719	.41361	2.503	
CARBON TETRACHLORIDE	.33980	.35675	.33905	.35051	.35534	.738	.34829	2.418	
BROMODICHLOROMETHANE	.58510	.61004	.58683	.60379	.61552	.763	.60026	2.283	
1,2-DICHLOROPROPANE	.39702	.41108	.40289	.40473	.41136	.824	.40542	1.484	
TRANS-1,3-DICHLOROPROPENE	.45106	.47526	.45113	.46967	.47297	.895	.46402	2.578	
TRICHLOROETHENE	.72425	.50310	.43784	.41658	.41625	.860	.49960	26.123	
DIBROMOCHLOROMETHANE	.45284	.46021	.44053	.44881	.45099	.894	.45068	1.577	
1,1,2-TRICHLOROETHANE	.35462	.35261	.33868	.34588	.34016	.897	.34639	2.066	
BENZENE	1.17335	1.19466	1.19556	1.23672	1.25152	.802	1.21036	2.685	
CIS-1,3-DICHLOROPROPENE	.58687	.62955	.59222	.61097	.63398	.836	.61072	3.480	
2-CHLOROETHYLVINYL ETHER	.19248	.21193	.19596	.21606	.20574	.944	.20443	4.940	
BROMOFORM	.25051	.26683	.25140	.26867	.26456	1.019	.26039	3.358	
TETRACHLOROETHENE	.31390	.31511	.28952	.29777	.29181	.910	.30162	4.027	
1,1,2,2-TETRACHLOROETHANE	.69378	.71002	.64592	.68759	.67272	.914	.68200	3.548	
D8-TOLUENE(SS)	1.33496	1.35091	1.36572	1.35921	1.39118	.952	1.36040	1.522	(Conc=50.0,50.0,50.0,50.0,50.0)
TOLUENE	.83465	.85760	.82172	.83651	.87688	.958	.84547	2.574	
CHLOROBENZENE	.96398	.96395	.93356	.95614	.97360	1.005	.95825	1.578	
ETHYLBENZENE	.50146	.51178	.47482	.49550	.51531	1.089	.49977	3.210	
4-BROMOFLUOROBENZENE(SS)	.69389	.68621	.68121	.70154	.69594	1.203	.69176	1.165	(Conc=50.0,50.0,50.0,50.0,50.0)
1,3-DICHLOROBENZENE	.86381	.80035	.76122	.80562	.79767	1.498	.80573	4.581	
1,2-DICHLOROBENZENE	.84427	.70115	.66792	.75754	.70639	1.548	.73545	9.350	
1,4-DICHLOROBENZENE	.82811	.84963	.78536	.78329	.82382	1.574	.81404	3.543	

RF - Response Factor (Subscript is amount in ug/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

INITIAL CALIBRATION DATA
Volatile HSL Compounds

Client ~~Case No.~~: ~~Enviresponse~~ Region: NA

Contractor : CLAYTON ENV.

Contractor No.: ~~60-01~~ NA

Instrument ID : 2-B

Calibration Date : 860903 20:17

Minimum $\overline{RF}$ for SPCC is 0.300 (0.25 for Bromoform)

Maximum %RSD for CCC is 30%

Laboratory ID : >84966::49 >84965::49 >84967::49 >84968::49 >84969::

Compound	RF20	RF50	RF100	RF150	RF200	$\overline{RF}$	%RSD	CCC * SPCC **
Chloromethane	1.6376	1.5617	1.4601	1.5195	1.6633	1.5684	5.33	** ✓
Bromomethane	1.6453	1.7678	1.5858	1.5522	1.5434	1.6189	5.70	
Vinyl Chloride	2.3042	2.4112	2.2282	2.3677	2.3524	2.3327	2.99	* ✓
Chloroethane	1.1324	1.1539	1.1256	1.1301	1.1327	1.1349	.97	
Methylene Chloride	2.9089	1.9541	1.6014	1.5011	1.4811	1.8893	31.80	
Acetone	1.0944	.5269	.3903	.3282	.3314	.5342	60.53	
Carbon Disulfide	4.5730	4.5375	4.8155	4.7903	5.0452	4.7523	4.33	
1,1-Dichloroethene	1.2869	1.2378	1.3115	1.2971	1.4073	1.3081	4.74	* ✓
1,1-Dichloroethane	3.0516	3.0583	3.2384	3.0658	3.3147	3.1458	3.90	** ✓
Trans-1,2-Dichloroethene	1.5105	1.5155	1.5487	1.5171	1.6118	1.5407	2.76	
Chloroform	3.0807	3.1413	3.2321	3.1033	3.2648	3.1645	2.54	* ✓
1,2-Dichloroethane	1.7390	1.8110	1.9265	1.8341	1.9481	1.8517	4.64	
2-Butanone	.0561	.0328	.0318	.0304	.0306	.0363	30.54	
1,1,1-Trichloroethane	.4661	.4428	.5023	.4806	.5160	.4816	6.02	
Carbon Tetrachloride	.3860	.3865	.4213	.4049	.4365	.4071	5.41	
Vinyl Acetate	.5709	.5938	.6770	.6262	.6578	.6251	7.01	
Bromodichloromethane	.6156	.6346	.6770	.6361	.6793	.6485	4.36	
1,2-Dichloropropane	.4906	.4605	.5045	.5009	.4880	.4889	3.54	* ✓
Trans-1,3-Dichloropropene	.7049	.6480	.7413	.7348	.7685	.7195	6.38	
Trichloroethene	.5921	.4507	.4453	.4205	.4274	.4672	15.18	
Dibromochloromethane	.5313	.4901	.5548	.5329	.5554	.5329	4.99	
1,1,2-Trichloroethane	.3442	.3197	.3444	.3403	.3594	.3416	4.18	
Benzene	1.2102	1.1341	1.2441	1.2217	1.2793	1.2179	4.41	
Cis-1,3-Dichloropropene	.4512	.4240	.4682	.4576	.4581	.4518	3.70	
2-Chloroethylvinylether	.2666	.2546	.2809	.2717	.2604	.2668	3.80	
Bromoform	.3356	.3321	.3432	.3345	.3630	.3417	3.69	** ✓
4-Methyl-2-Pentanone	.4207	.3755	.4000	.3984	.4212	.4032	4.69	
2-Hexanone	.2996	.2735	.2637	.2656	.2819	.2769	5.28	
Tetrachloroethene	.3612	.3806	.3614	.3474	.3760	.3653	3.62	
1,1,2,2-Tetrachloroethane	.6095	.6303	.6112	.6020	.6445	.6195	2.81	** ✓
Toluene	.8447	.8653	.8107	.7749	.8264	.8244	4.17	* ✓
Chlorobenzene	9937	.9719	.9815	.9293	.9830	.9719	2.58	** ✓
Ethylbenzene	.4847	.4836	.4827	.4625	.4962	.4819	2.52	* ✓
Styrene	.9850	1.0233	.9963	.9757	1.0349	1.0030	2.51	
Total Xylenes	.6098	.5977	.5985	.5747	.6136	.5989	2.53	

RF - Response Factor (subscript is the amount of ug/L)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*)

SPCC - System Performance Check Compounds (**)

Analyst JZ Form VI 7/85

1/64

020-08

Calibration Report

Title: PRIORITY POLLUTANTS - METHOD 624
Calibrated: 860924 11:44

Compound	Files: >B4966 RF 20.00	>B4965 RF 50.00	>B4967 RF 100.00	>B4968 RF 150.00	>B4969 RF 200.00	$\overline{RRT}$	$\overline{RF}$	% RSD	
CHLOROMETHANE	1.63755	1.56128	1.46010	1.51954	1.66327	.174	1.56835	5.330	
BROMOMETHANE	1.64531	1.76779	1.58581	1.55219	1.54337	.259	1.61889	5.705	
VINYL CHLORIDE	2.30418	2.41124	2.22816	2.36767	2.35241	.331	2.33273	2.995	
CHLOROETHANE	1.13240	1.15391	1.12557	1.13010	1.13275	.426	1.13494	.968	
METHYLENE CHLORIDE	2.90888	1.95407	1.60136	1.50107	1.48108	.649	1.88929	31.802	
ACROLEIN	.08820	.08793	.08211	.08842	.07911	.776	.08516	5.035	
ACRYLONITRILE	.26860	.29340	.25664	.28039	.25723	.834	.27125	5.804	
TRICHLOROFLUOROMETHANE	1.78298	1.73679	1.65933	1.68836	1.67722	.895	1.70894	2.947	
1,1-DICHLOROETHENE	1.28690	1.23784	1.31155	1.29711	1.40733	.960	1.30815	4.738	
1,1-DICHLOROETHANE	3.05158	3.05831	3.23841	3.06576	3.31475	1.088	3.14576	3.895	
TRANS-1,2-DICHLOROETHENE	1.51046	1.51549	1.54866	1.51714	1.61178	1.167	1.54071	2.758	
CHLOROFORM	3.08075	3.14127	3.23210	3.10332	3.26481	1.221	3.16445	2.544	
D4-1,2-DICHLOROETHANE(SS)	1.68574	1.73703	1.97148	2.03587	2.13331	1.284	1.91269	10.113	(Conc=50.0,50.0,50.0,50.0,50.0)
1,2-DICHLOROETHANE	1.73900	1.81100	1.92650	1.83412	1.94810	1.293	1.85174	4.642	
1,1,1-TRICHLOROETHANE	.46607	.44277	.50226	.48065	.51603	.692	.48156	6.020	
CARBON TETRACHLORIDE	.38603	.38653	.42126	.40493	.43654	.710	.40706	5.408	
BROMODICHLOROMETHANE	.61560	.63457	.67702	.63612	.67934	.743	.64853	4.357	
1,2-DICHLOROPROPANE	.49060	.46051	.50454	.50094	.48802	.806	.48892	3.542	
TRANS-1,3-DICHLOROPROPENE	.70487	.64799	.74130	.73484	.76846	.884	.71949	6.382	
TRICHLOROETHENE	.59211	.45068	.44531	.42047	.42738	.849	.46719	15.182	
DIBROMOCHLROMETHANE	.45284	.46021	.44053	.44881	.45099	.894	.45068	1.577	
1,1,2-TRICHLOROETHANE	.34420	.31969	.34438	.34032	.35943	.884	.34160	4.176	
BENZENE	1.21016	1.13407	1.24409	1.22172	1.27933	.872	1.21787	4.414	
CIS-1,3-DICHLOROPROPENE	.45117	.42402	.46824	.45761	.45812	.821	.45183	3.697	
2-CHLOROETHYLVINYL ETHER	.19248	.21193	.19596	.21606	.20574	.944	.20443	4.340	
BROMOFORM	.33560	.33208	.34317	.33450	.36297	1.011	.34166	3.691	
TETRACHLOROETHENE	.36123	.38056	.36143	.34739	.37598	.909	.36532	3.619	
1,1,2,2-TETRACHLOROETHANE	.60952	.63028	.61121	.60199	.64450	.909	.61950	2.815	
D8-TOLUENE(SS)	1.29862	1.30947	1.30028	1.29559	1.27577	.953	1.29594	.958	(Conc=50.0,50.0,50.0,50.0,50.0)
TOLUENE	.84473	.86528	.81072	.77485	.82637	.960	.82439	4.171	
CHLOROBENZENE	.99373	.97186	.98151	.92928	.98300	1.004	.97188	2.577	
ETHYLBENZENE	.48467	.48361	.48275	.46251	.49617	1.077	.48194	2.522	
4-BROMOFLUOROBENZENE(SS)	.68715	.69583	.68769	.67885	.64832	1.165	.67957	2.718	(Conc=50.0,50.0,50.0,50.0,50.0)
1,3-DICHLOROBENZENE	.86381	.80035	.76122	.80562	.79767	1.498	.80573	4.581	
1,2-DICHLOROBENZENE	.84427	.70115	.66792	.75754	.70639	1.548	.73545	9.350	
1,4-DICHLOROBENZENE	.82811	.84963	.78536	.78329	.82382	1.574	.81404	3.543	

RF - Response Factor (Subscript is amount in ug/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

022-02

Calibration Check Report

Title: PRIORITY POLLUTANTS - METHOD 624
Calibrated: 860924 11:44

Check Standard Data File: >85121
Injection Time: 860921 13:59

Compound	$\overline{RF}$	RF	%Diff	Calib Meth
CHLOROMETHANE	1.56835	1.26254	19.50	Average
BROMOMETHANE	1.61889	2.19901	35.83	Average
VINYL CHLORIDE	2.33273	2.43542	4.40	Average ✔
CHLOROETHANE	1.13494	1.12489	.89	Average
METHYLENE CHLORIDE	1.88929	2.23801	18.46	Average
ACROLEIN	.08516	.12576	47.68	Average
ACRYLONITRILE	.27125	.47634	75.61	Average
TRICHLOROFLUOROMETHANE	1.70894	1.04476	38.86	Average
1,1-DICHLOROETHENE	1.30815	1.51736	15.99	Average
1,1-DICHLOROETHANE	3.14576	2.91017	7.49	Average
TRANS-1,2-DICHLOROETHENE	1.54071	1.73070	12.33	Average
CHLOROFORM	3.16445	2.96826	6.20	Average
D4-1,2-DICHLOROETHANE(SS)	1.91269	1.33004	30.46	Average
1,2-DICHLOROETHANE	1.85174	1.43039	22.75	Average
1,1,1-TRICHLOROETHANE	.48156	.44809	6.95	Average
CARBON TETRACHLORIDE	.40706	.34710	14.73	Average
BROMODICHLOROMETHANE	.64853	.61739	4.80	Average
1,2-DICHLOROPROPANE	.48892	.48426	.95	Average
TRANS-1,3-DICHLOROPROPENE	.71949	.63386	11.90	Average
TRICHLOROETHENE	.46719	.42759	8.48	Average
DIBROMOCHLROMETHANE	.45068	0.5440	20.7	Average
1,1,2-TRICHLOROETHANE	.34160	.36604	7.15	Average
BENZENE	1.21787	1.24792	2.47	Average
CIS-1,3-DICHLOROPROPENE	.45183	.42454	6.04	Average
2-CHLOROETHYLVINYL ETHER	.20443	0.2570	25.8	Average
BROMOFORM	.34166	.35545	4.03	Average
TETRACHLOROETHENE	.36532	.39115	7.07	Average
1,1,2,2-TETRACHLOROETHANE	.61950	.69715	12.53	Average
D8-TOLUENE(SS)	1.29594	1.28051	1.19	Average
TOLUENE	.82439	.85611	3.85	Average
CHLOROBENZENE	.97188	.97623	.45	Average
ETHYLBENZENE	.48194	.51416	6.69	Average
4-BROMOFLUOROBENZENE(SS)	.67957	.63555	6.48	Average
1,3-DICHLOROBENZENE	.80573	.87083	8.08	Average
1,2-DICHLOROBENZENE	.73545	.85799	16.66	Average
1,4-DICHLOROBENZENE	.81404	.81117	.35	Average

RF - Response Factor from daily standard file at 50.00 ug/L

$\overline{RF}$ - Average Response Factor from Initial Calibration

%Diff - % Difference from original average or curve

022-03

Calibration Check Report

Title: PRIORITY POLLUTANTS - METHOD 624
Calibrated: 860924 11:44

Check Standard Data File: >85136
Injection Time: 860922 10:13

Compound	$\overline{RF}$	RF	%Diff	Calib Meth
CHLOROMETHANE	1.56835	1.04665	33.26	Average
BROMOMETHANE	1.61889	2.04344	26.22	Average
VINYL CHLORIDE	2.33273	2.10508	9.76	Average
CHLOROETHANE	1.13494	1.04240	8.15	Average
METHYLENE CHLORIDE	1.88929	2.11112	11.74	Average
ACROLEIN	.08516	.11495	34.98	Average
ACRYLONITRILE	.27125	.39310	44.92	Average
TRICHLOROFLUOROMETHANE	1.70894	1.00232	41.35	Average
1,1-DICHLOROETHENE	1.30815	1.51301	15.66	Average
1,1-DICHLOROETHANE	3.14576	2.65161	15.71	Average
TRANS-1,2-DICHLOROETHENE	1.54071	1.61107	4.57	Average
CHLOROFORM	3.16445	2.99582	5.33	Average
D4-1,2-DICHLOROETHANE(SS)	1.91269	1.30446	31.80	Average
1,2-DICHLOROETHANE	1.85174	1.42941	22.81	Average
1,1,1-TRICHLOROETHANE	.48156	.41048	14.76	Average
CARBON TETRACHLORIDE	.40706	.32262	20.74	Average
BROMODICHLOROMETHANE	.64853	.56270	13.23	Average
1,2-DICHLOROPROPANE	.48892	.42866	12.33	Average
TRANS-1,3-DICHLOROPROPENE	.71949	.60116	16.45	Average
TRICHLOROETHENE	.46719	.46165	1.19	Average
DIBROMOCHLROMETHANE	.45068	0.53706	19.2	Average
1,1,2-TRICHLOROETHANE	.34160	.34303	.42	Average
BENZENE	1.21787	1.24148	1.94	Average
CIS-1,3-DICHLOROPROPENE	.45183	.39236	13.16	Average
2-CHLOROETHYLVINYL ETHER	.20443	0.23166	13.4	Average
BROMOFORM	.34166	.35833	4.88	Average
TETRACHLOROETHENE	.36532	.40143	9.89	Average
1,1,2,2-TETRACHLOROETHANE	.61950	.61568	.62	Average
D8-TOLUENE(SS)	1.29594	1.22708	5.31	Average
TOLUENE	.82439	.84384	2.36	Average
CHLOROBENZENE	.97188	.97674	.50	Average
ETHYLBENZENE	.48194	.50160	4.08	Average
4-BROMOFLUOROBENZENE(SS)	.67957	.59662	12.21	Average
1,3-DICHLOROBENZENE	.80573	.88039	9.27	Average
1,2-DICHLOROBENZENE	.73545	.83680	13.78	Average
1,4-DICHLOROBENZENE	.81404	.93306	14.62	Average

RF - Response factor from daily standard file at 50.00 ug/L

$\overline{RF}$ - Average Response Factor from Initial Calibration

%Diff - % Difference from original average or curve

022-04

Calibration Check Report

Title: PRIORITY POLLUTANTS - METHOD 624
Calibrated: 860924 11:44

Check Standard Data File:)85148
Injection Time: 860922 23:08

Compound	$\overline{RF}$	RF	%Diff	Calib Meth
CHLOROMETHANE	1.56835	1.00847	35.70	Average
BROMOMETHANE	1.61889	1.83395	13.28	Average
VINYL CHLORIDE	2.33273	1.89664	18.69	Average
CHLOROETHANE	1.13494	.93765	17.38	Average
METHYLENE CHLORIDE	1.88929	2.35025	24.40	Average
ACROLEIN	.08516	.11750	37.98	Average
ACRYLONITRILE	.27125	.39920	47.17	Average
TRICHLOROFLUOROMETHANE	1.70894	.95238	44.27	Average
1,1-DICHLOROETHENE	1.30815	1.43583	9.76	Average
1,1-DICHLOROETHANE	3.14576	2.64952	15.77	Average
TRANS-1,2-DICHLOROETHENE	1.54071	1.70397	10.60	Average
CHLOROFORM	3.16445	2.84827	9.99	Average
D4-1,2-DICHLOROETHANE(SS)	1.91269	1.26938	33.63	Average
1,2-DICHLOROETHANE	1.85174	1.37703	25.64	Average
1,1,1-TRICHLOROETHANE	.48156	.39164	18.67	Average
CARBON TETRACHLORIDE	.40706	.30498	25.08	Average
BROMODICHLOROMETHANE	.64853	.55985	13.67	Average
1,2-DICHLOROPROPANE	.48892	.44874	8.22	Average
TRANS-1,3-DICHLOROPROPENE	.71949	.60998	15.22	Average
TRICHLOROETHENE	.46719	.45154	3.35	Average
DIBROMOCHLROMETHANE	.45068	0.55192	22.5	Average
1,1,2-TRICHLOROETHANE	.34160	.36331	6.35	Average
BENZENE	1.21787	1.29717	6.51	Average
CIS-1,3-DICHLOROPROPENE	.45183	.39041	13.59	Average
2-CHLOROETHYLVINYL ETHER	.20443	0.24736	21.0	Average
BROMOFORM	.34166	.35871	4.99	Average
TETRACHLOROETHENE	.36532	.34227	6.31	Average
1,1,2,2-TETRACHLOROETHANE	.61950	.59864	3.37	Average
D8-TOLUENE(SS)	1.29594	1.22343	5.60	Average
TOLUENE	.82439	.80201	2.71	Average
CHLOROBENZENE	.97188	.92637	4.68	Average
ETHYLBENZENE	.48194	.46037	4.48	Average
4-BROMOFLUOROBENZENE(SS)	.67957	.62757	7.65	Average
1,3-DICHLOROBENZENE	.80573	.85991	6.72	Average
1,2-DICHLOROBENZENE	.73545	.82758	12.53	Average
1,4-DICHLOROBENZENE	.81404	.87557	7.56	Average

RF - Response factor from daily standard file at 50.00 ug/L

$\overline{RF}$ - Average Response Factor from Initial Calibration

%Diff - % Difference from original average or curve

022-05

Calibration Check Report

Title: PRIORITY POLLUTANTS - METHOD 624
Calibrated: 860924 11:44

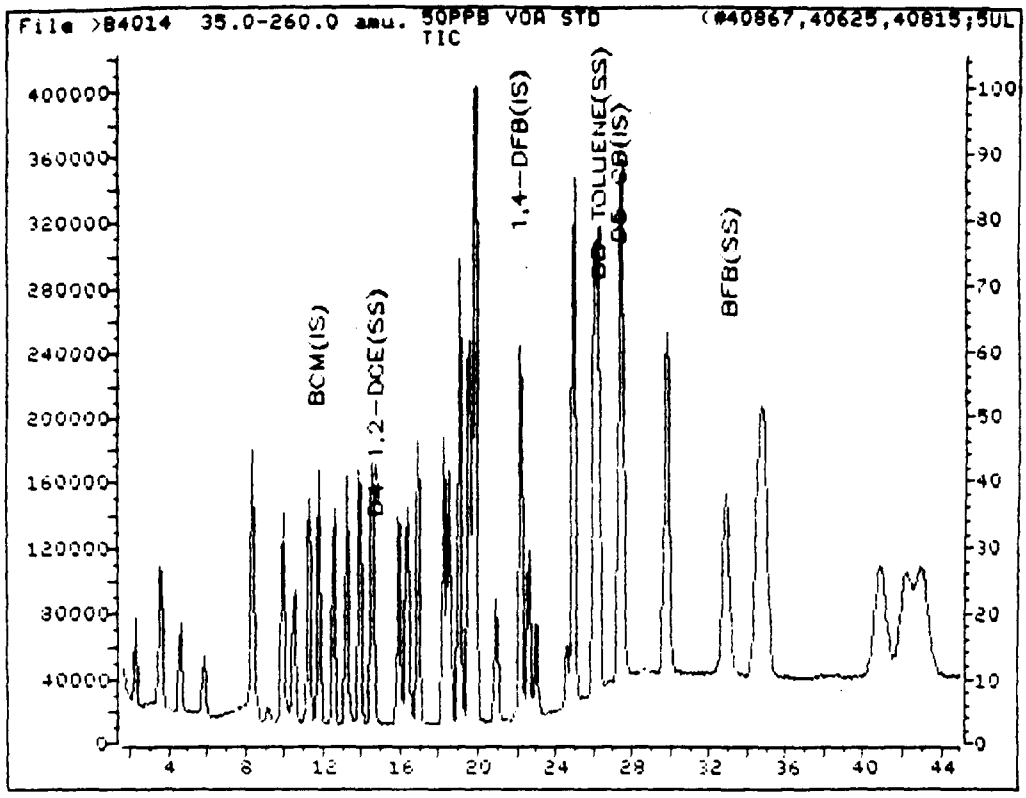
Check Standard Data File: >85179
Injection Time: 860924 08:56

Compound	$\overline{RF}$	RF	%Diff	Calib Meth
CHLOROMETHANE	1.56835	1.03750	33.85	Average
BROMOMETHANE	1.61889	1.90692	17.79	Average
VINYL CHLORIDE	2.33273	2.11346	9.40	Average
CHLOROETHANE	1.13494	1.11790	1.50	Average
METHYLENE CHLORIDE	1.88929	2.39530	26.78	Average
ACROLEIN	.08516	.12722	49.40	Average
ACRYLONITRILE	.27125	.47968	76.84	Average
TRICHLOROFLUOROMETHANE	1.70894	1.00656	41.10	Average
1,1-DICHLOROETHENE	1.30815	1.58124	20.88	Average
1,1-DICHLOROETHANE	3.14576	2.99934	4.65	Average
TRANS-1,2-DICHLOROETHENE	1.54071	1.85148	20.17	Average
CHLOROFORM	3.16445	3.28288	3.74	Average
D4-1,2-DICHLOROETHANE(SS)	1.91269	1.39106	27.27	Average
1,2-DICHLOROETHANE	1.85174	1.60353	13.40	Average
1,1,1-TRICHLOROETHANE	.48156	.46045	4.38	Average
CARBON TETRACHLORIDE	.40706	.35664	12.39	Average
BROMODICHLOROMETHANE	.64853	.63834	1.57	Average
1,2-DICHLOROPROPANE	.48892	.51805	5.96	Average
TRANS-1,3-DICHLOROPROPENE	.71949	.63999	11.05	Average
TRICHLOROETHENE	.46719	.47401	1.46	Average
DIBROMOCHLOROMETHANE	.45068	0.57093	26.7	Average
1,1,2-TRICHLOROETHANE	.34160	.37457	9.65	Average
BENZENE	1.21787	1.39037	14.16	Average
CIS-1,3-DICHLOROPROPENE	.45183	.46256	2.38	Average
2-CHLOROETHYLVINYL ETHER	.20443	0.24753	21.1	Average
BROMOFORM	.34166	.37347	9.31	Average
TETRACHLOROETHENE	.36532	.39530	8.21	Average
1,1,2,2-TETRACHLOROETHANE	.61950	.68634	10.79	Average
D8-TOLUENE(SS)	1.29594	1.26395	2.47	Average
TOLUENE	.82439	.89600	8.69	Average
CHLOROBENZENE	.97188	1.00149	3.05	Average
ETHYLBENZENE	.48194	.52373	8.67	Average
4-BROMOFLUOROBENZENE(SS)	.67957	.60090	11.58	Average
1,3-DICHLOROBENZENE	.80573	.84381	4.73	Average
1,2-DICHLOROBENZENE	.73545	.86772	17.98	Average
1,4-DICHLOROBENZENE	.81404	.73483	9.73	Average

RF - Response factor from daily standard file at 50.00 ug/L

$\overline{RF}$ - Average Response Factor from Initial Calibration

2 2 0377
026-01



MS data file header from : B4014

Sample: 50PPB VOA STD Operator: SUSAN MS 6/11/86 9:52
Misc : (#40867,40625,40815;5UL) IS,SS=50PPB(#40858,5UL)
Sys. #: 2B MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: VOAME2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 50 Transfer line temp. : 0

Chromatographic temperatures :	50.	60.	0.	0.	0.
Chromatographic times, min. :	1.0	13.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	0.0	0.0	0.0	0.0

QUANT REPORT

Operator ID: SUSAN Quant Rev: 4 Quant Time: 860612 10:45
Output File: ^P4014::EE Injected at: 860611 09:52
Data File: >B4014::AA Dilution Factor: 1.000
Name: 50PPB VOA STD
Misc: (*40867,40625,40815;5UL) IS,SS=50PPB(*40858,5UL)

ID File: PPVID2::PS
Title: PRIORITY POLLUTANTS - METHOD 624
Last Calibration: 860611 13:07

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE(IS)	11.79	178	262311	50.00	ug/L	72
2)	CHLOROMETHANE	2.25	24	273603	41.36	ug/L	100
3)	BROMOMETHANE	3.55	45	406371	37.47	ug/L	97
4)	VINYL CHLORIDE	4.60	62	388038	39.11	ug/L	100
5)	CHLOROETHANE	5.90	83	267563	39.03	ug/L	100
6)	METHYLENE CHLORIDE	8.38	123	510951	33.04	ug/L	72
7)	ACROLEIN	9.12	135	23066	47.01	ug/L	1
8)	ACRYLONITRILE	9.87	147	76962	52.22	ug/L	99
9)	TRICHLOROFLUOROMETHANE	10.55	158	455578	41.63	ug/L	100
10)	1,1-DICHLOROETHENE	11.29	170	374362	42.36	ug/L	80
11)	1,1-DICHLOROETHANE	12.59	191	677608	43.51	ug/L	69
12)	TRANS-1,2-DICHLOROETHENE	13.27	202	428928	42.90	ug/L	81
13)	CHLOROFORM	13.89	212	759500	43.01	ug/L	97
14)	D4-1,2-DICHLOROETHANE(SS)	14.51	222	358108	52.84	ug/L	100
15)	1,2-DICHLOROETHANE	14.63	224	356856	45.05	ug/L	99
16)	*1,4-DIFLUOROBENZENE(IS)	22.19	346	1210552	50.00	ug/L	100
17)	1,1,1-TRICHLOROETHANE	15.93	245	505237	40.85	ug/L	100
18)	CARBON TETRACHLORIDE	16.37	252	431865	42.23	ug/L	100
19)	BROMODICHLOROMETHANE	16.92	261	738482	41.73	ug/L	100
20)	1,2-DICHLOROPROPANE	18.29	283	497636	43.15	ug/L	65
21)	TRANS-1,3-DICHLOROPROPENE	19.83	308	575330	44.11	ug/L	100
22)	TRICHLOROETHENE	19.09	296	609034	45.16	ug/L	89
23)	DIBROMOCHLROMETHANE	19.83	308	557110	41.60	ug/L	95
24)	1,1,2-TRICHLOROETHANE	19.90	309	426857	42.63	ug/L	93
25)	BENZENE	19.59	304	1446203	41.74	ug/L	100
26)	CIS-1,3-DICHLOROPROPENE	18.53	287	762109	43.29	ug/L	100
27)	2-CHLOROETHYLVINYL ETHER	20.95	326	256552	42.31	ug/L	93
28)	BROMOFORM	22.62	353	323006	41.94	ug/L	100
29)	*D5-CHLOROBENZENE(IS)	27.39	430	1020250	50.00	ug/L	100
30)	TETRACHLOROETHENE	24.91	390	321487	42.09	ug/L	89
31)	1,1,2,2-TETRACHLOROETHANE	25.04	392	724395	45.43	ug/L	100
32)	D8-TOLUENE(SS)	26.03	408	1378267	50.07	ug/L	97
33)	TOLUENE	26.21	411	874966	42.49	ug/L	95
34)	CHLOROBENZENE	27.52	432	983468	42.05	ug/L	63
35)	ETHYLBENZENE	29.81	469	522143	42.49	ug/L	99
36)	4-BROMOFLUOROBENZENE(SS)	32.91	519	700106	50.34	ug/L	81
37)	1,3-DICHLOROBENZENE	40.31	648	816559	40.81	ug/L	100
38)	1,2-DICHLOROBENZENE	42.27	670	715344	38.80	ug/L	100
39)	1,4-DICHLOROBENZENE	42.95	681	866832	26067.64	ug/L	100

* Compound is ISTD

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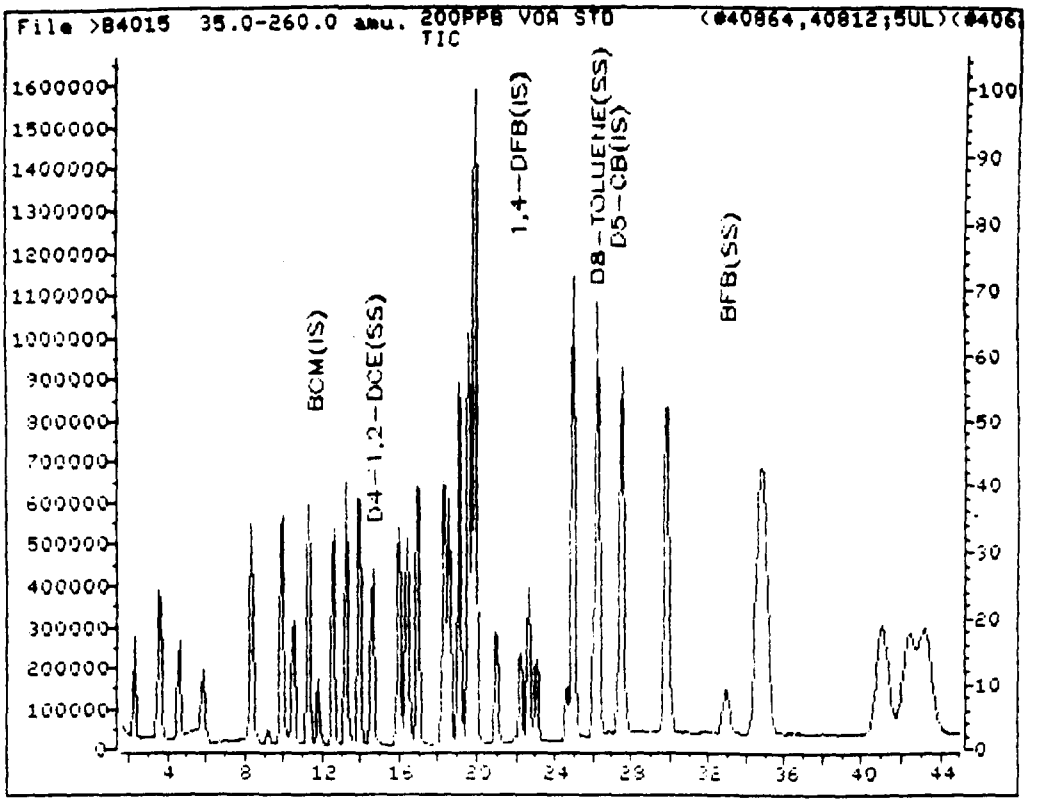
026-02



MS data file header from : B4015

Sample: 200PPB VOA STD Operator: SUSAN MS 6/11/86 11:27
Misc : (#40864,40812;5UL)(#40625,20UL) IS,SS=50PPB(#40858,5UL)
Sys. #: 2β MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: VOAME2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 50 Transfer line temp. : 0

Chromatographic temperatures :	50.	60.	0.	0.	0.
Chromatographic times, min. :	1.0	13.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	0.0	0.0	0.0	0.0

QUANT REPORT

Operator ID: SUSAN Quant Rev: 4 Quant Time: 860612 10:47
Output File: ^P4015::EE Injected at: 860611 11:27
Data File: >B4015::AA Dilution Factor: 1.000
Name: 200PPB VOA STD
Misc: (#40864,40812;5UL)(#40625,20UL) IS,SS=50PPB(#40858,5UL)

ID File: PPVID2::PS
Title: PRIORITY POLLUTANTS - METHOD 624
Last Calibration: 860611 13:07

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE(IS)	11.79	178	258738	50.00	ug/L	69
2)	CHLOROMETHANE	2.25	24	1262910	193.54	ug/L	100
3)	BROMOMETHANE	3.55	45	1687235	157.73	ug/L	99
4)	VINYL CHLORIDE	4.60	62	1734812	177.27	ug/L	100
5)	CHLOROETHANE	5.90	83	1128558	166.88	ug/L	100
6)	METHYLENE CHLORIDE	8.32	122	1834472	120.26	ug/L	65
7)	ACROLEIN	9.12	135	81874	169.18	ug/L	1
8)	ACRYLONITRILE	9.81	146	266222	183.13	ug/L	97
9)	TRICHLOROFLUOROMETHANE	10.55	158	1735845	160.82	ug/L	100
10)	1,1-DICHLOROETHENE	11.29	170	1497245	171.77	ug/L	82
11)	1,1-DICHLOROETHANE	12.59	191	2803917	182.51	ug/L	68
12)	TRANS-1,2-DICHLOROETHENE	13.27	202	1721599	174.58	ug/L	94
13)	CHLOROFORM	13.89	212	3075898	176.58	ug/L	97
14)	D4-1,2-DICHLOROETHANE(SS)	14.57	223	416234	62.26	ug/L	100
15)	1,2-DICHLOROETHANE	14.63	224	1441023	184.42	ug/L	97
16)	*1,4-DIFLUOROBENZENE(IS)	22.25	347	1187696	50.00	ug/L	100
17)	1,1,1-TRICHLOROETHANE	16.00	246	2030974	167.38	ug/L	100
18)	CARBON TETRACHLORIDE	16.37	252	1688145	168.25	ug/L	100
19)	BROMODICHLOROMETHANE	16.93	261	2924221	168.41	ug/L	100
20)	1,2-DICHLOROPROPANE	18.29	283	1954297	172.72	ug/L	65
21)	TRANS-1,3-DICHLOROPROPENE	18.90	309	2246981	175.60	ug/L	100
22)	TRICHLOROETHENE	19.09	296	1977499	149.46	ug/L	93
23)	DIBROMOCHLROMETHANE	19.84	308	2142569	163.05	ug/L	93
24)	1,1,2-TRICHLOROETHANE	19.96	310	1616024	164.49	ug/L	90
25)	BENZENE	19.59	304	5945702	174.90	ug/L	100
26)	CIS-1,3-DICHLOROPROPENE	18.60	288	3011908	174.38	ug/L	100
27)	2-CHLOROETHYLVINYL ETHER	20.95	326	977438	164.31	ug/L	93
28)	BROMOFORM	22.62	353	1256883	166.35	ug/L	100
29)	*D5-CHLOROBENZENE(IS)	27.39	430	975941	50.00	ug/L	100
30)	TETRACHLOROETHENE	24.98	391	1139138	155.93	ug/L	85
31)	1,1,2,2-TETRACHLOROETHANE	25.04	392	2626131	172.17	ug/L	100
32)	D8-TOLUENE(SS)	26.09	409	1357709	51.56	ug/L	96
33)	TOLUENE	26.28	412	3423121	173.77	ug/L	96
34)	CHLOROBENZENE	27.52	432	3800701	169.89	ug/L	62
35)	ETHYLBENZENE	29.81	469	2011664	171.12	ug/L	98
36)	4-BROMOFLUOROBENZENE(SS)	32.97	520	679200	51.05	ug/L	83
37)	1,3-DICHLOROBENZENE	41.03	650	3113917	162.69	ug/L	100
38)	1,2-DICHLOROBENZENE	42.46	673	2757596	156.38	ug/L	100
39)	1,4-DICHLOROBENZENE	43.20	685	3216014	101103.9	ug/L	100

* Compound is ISTD

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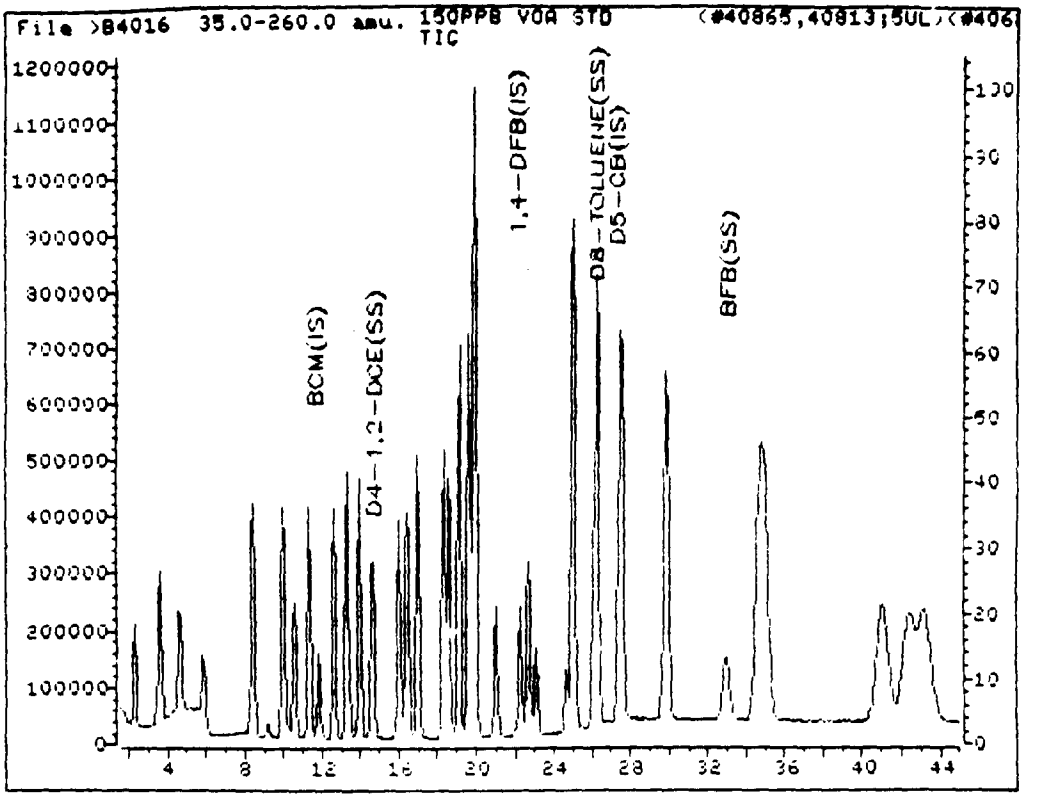
026.03



MS data file header from : B4016

Sample: 150PPB VOA STD Operator: SUSAN MS 6/11/86 12:25
Misc : (#40865,40813;5UL)(#40625,15UL) IS,SS=50PPB(#40858,5UL)
Sys. #: 2B MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: VOAME2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 50 Transfer line temp. : 0

Chromatographic temperatures :	50.	60.	0.	0.	0.
Chromatographic times, min. :	1.0	13.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	0.0	0.0	0.0	0.0

QUANT REPORT

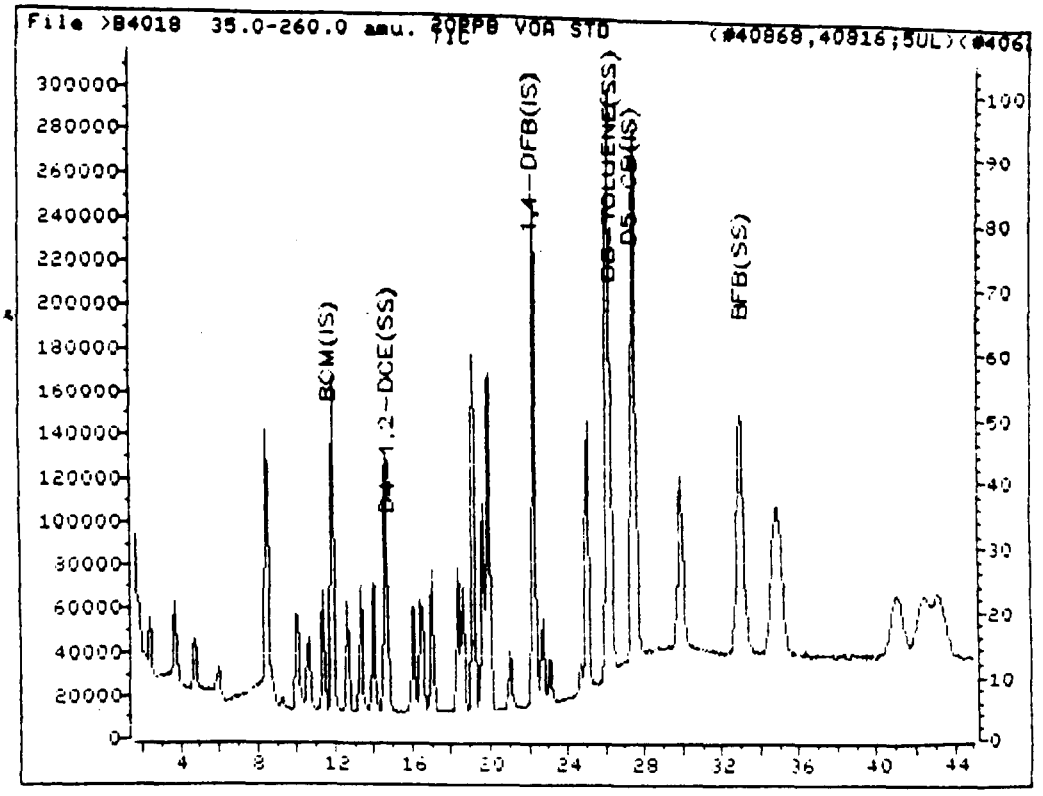
Operator ID: SUSAN Quant Rev: 4 Quant Time: 860612 10:48
Output File: ^P4016::EE Injected at: 860611 12:25
Data File: >B4016::AA Dilution Factor: 1.000
Name: 150PPB VOA STD
Misc: (#40865,40813;5UL)(#40625,15UL) IS,SS=50PPB(#40858,5UL)

ID File: PPVID2::PS
Title: PRIORITY POLLUTANTS - METHOD 624
Last Calibration: 860611 13:07

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE(IS)	11.83	178	255212	50.00	ug/L	72
2)	CHLOROMETHANE	2.30	24	934215	145.15	ug/L	100
3)	BROMOMETHANE	3.60	45	1295448	122.78	ug/L	98
4)	VINYL CHLORIDE	4.59	61	1314879	136.22	ug/L	100
5)	CHLOROETHANE	5.89	82	858058	128.63	ug/L	100
6)	METHYLENE CHLORIDE	8.42	123	1465447	97.39	ug/L	45
7)	ACROLEIN	9.17	135	67701	141.83	ug/L	1
8)	ACRYLONITRILE	9.85	146	214676	149.71	ug/L	97
9)	TRICHLOROFLUOROMETHANE	10.59	158	1292666	121.41	ug/L	100
10)	1,1-DICHLOROETHENE	11.33	170	1106614	128.71	ug/L	79
11)	1,1-DICHLOROETHANE	12.63	191	2012585	132.81	ug/L	68
12)	TRANS-1,2-DICHLOROETHENE	13.32	202	1248699	128.37	ug/L	90
13)	CHLOROFORM	13.93	212	2180522	126.91	ug/L	98
14)	D4-1,2-DICHLOROETHANE(SS)	14.55	222	393062	59.61	ug/L	100
15)	1,2-DICHLOROETHANE	14.68	224	1333423	134.08	ug/L	96
16)	*1,4-DIFLUOROBENZENE(IS)	22.23	346	1197036	50.00	ug/L	100
17)	1,1,1-TRICHLOROETHANE	15.98	245	1495885	122.32	ug/L	100
18)	CARBON TETRACHLORIDE	16.41	252	1258731	124.47	ug/L	100
19)	BROMODICHLOROMETHANE	16.97	261	2168277	123.90	ug/L	100
20)	1,2-DICHLOROPROPANE	18.33	283	1453432	127.45	ug/L	66
21)	TRANS-1,3-DICHLOROPROPENE	19.94	309	1686642	130.78	ug/L	100
22)	TRICHLOROETHENE	19.13	296	1495996	112.18	ug/L	90
23)	DIBROMOCHLROMETHANE	19.88	308	1611727	121.70	ug/L	94
24)	1,1,2-TRICHLOROETHANE	19.94	309	1242105	125.44	ug/L	91
25)	BENZENE	19.63	304	4441199	129.62	ug/L	100
26)	CIS-1,3-DICHLOROPROPENE	18.58	287	2194051	126.04	ug/L	100
27)	2-CHLOROETHYLVINYL ETHER	20.99	326	775911	129.42	ug/L	95
28)	BROMOFORM	22.67	353	964828	126.70	ug/L	100
29)	*D5-CHLOROBENZENE(IS)	27.37	429	1014229	50.00	ug/L	100
30)	TETRACHLOROETHENE	24.96	390	906024	119.34	ug/L	89
31)	1,1,2,2-TETRACHLOROETHANE	25.02	391	2092110	131.98	ug/L	100
32)	D8-TOLUENE(SS)	26.07	408	1378552	50.37	ug/L	98
33)	TOLUENE	26.26	411	2545251	124.33	ug/L	96
34)	CHLOROBENZENE	27.56	432	2909239	125.13	ug/L	62
35)	ETHYLBENZENE	29.85	469	1507643	123.40	ug/L	98
36)	4-BROMOFLUOROBENZENE(SS)	32.95	519	711520	51.46	ug/L	84
37)	1,3-DICHLOROBENZENE	41.08	650	2451254	123.23	ug/L	100
38)	1,2-DICHLOROBENZENE	42.44	672	2304967	125.78	ug/L	100
39)	1,4-DICHLOROBENZENE	43.18	684	2393303	72096.91	ug/L	100

* Compound is ISTD

026-04



MS data file header from : B4018

Sample: 20PPB VOA STD Operator: SUSAN MS 6/11/86 14:29
Misc : (#40868,40816;5UL)(#40625,2UL) IS,SS=50PPB(#40858,5UL)
Sys. #: 2B MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: VOAME2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 50 Transfer line temp. : 0

Chromatographic temperatures :	50.	60.	0.	0.	0.
Chromatographic times, min. :	1.0	13.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	0.0	0.0	0.0	0.0

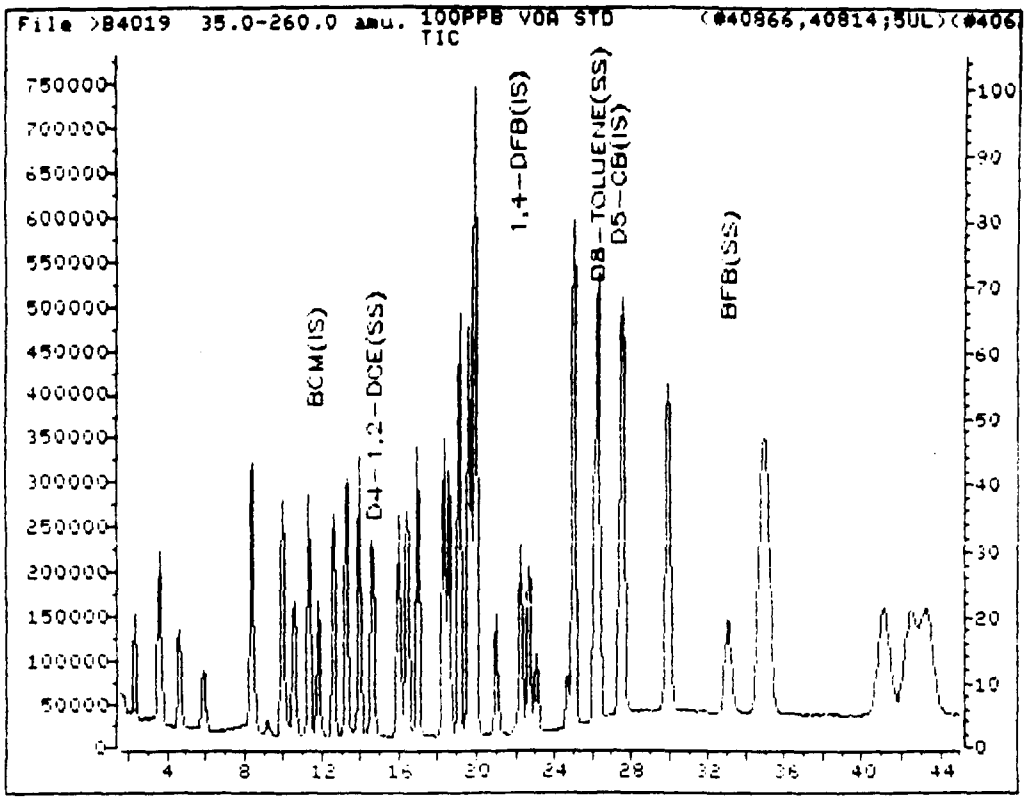
QUANT REPORT

Operator ID: SUSAN Quant Rev: 4 Quant Time: 860612 10:49
Output File: ^P4018::EE Injected at: 860611 14:29
Data File: >B4018::AA Dilution Factor: 1.000
Name: 20PPB VOA STD
Misc: (#40868,40816;5UL)(#40625,2UL) IS,SS=50PPB(#40858,5UL)

ID File: PPVID2::PS
Title: PRIORITY POLLUTANTS - METHOD 624
Last Calibration: 860611 13:07

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE(IS)	11.88	178	259376	50.00	ug/L	67
2)	CHLOROMETHANE	2.40	25	115560	17.67	ug/L	100
3)	BROMOMETHANE	3.70	46	170976	15.94	ug/L	96
4)	VINYL CHLORIDE	4.76	63	167170	17.04	ug/L	100
5)	CHLOROETHANE	5.99	83	110432	16.29	ug/L	100
6)	METHYLENE CHLORIDE	8.47	123	380405	24.88	ug/L	65
7)	ACROLEIN	9.29	136	9151	18.86	ug/L	9
8)	ACRYLONITRILE	9.96	147	27867	19.12	ug/L	95
9)	TRICHLOROFLUOROMETHANE	10.64	158	184985	17.10	ug/L	100
10)	1,1-DICHLOROETHENE	11.38	170	146187	16.73	ug/L	75
11)	1,1-DICHLOROETHANE	12.68	191	265002	17.21	ug/L	68
12)	TRANS-1,2-DICHLOROETHENE	13.36	202	162802	16.47	ug/L	78
13)	CHLOROFORM	13.98	212	302182	17.30	ug/L	98
14)	D4-1,2-DICHLOROETHANE(SS)	14.60	222	346871	51.76	ug/L	100
15)	1,2-DICHLOROETHANE	14.72	224	142286	18.16	ug/L	99
16)	*1,4-DIFLUOROBENZENE(IS)	22.28	346	1231279	50.00	ug/L	100
17)	1,1,1-TRICHLOROETHANE	16.02	245	198928	15.81	ug/L	100
18)	CARBON TETRACHLORIDE	16.46	252	167353	16.09	ug/L	100
19)	BROMODICHLOROMETHANE	17.01	261	288167	16.01	ug/L	100
20)	1,2-DICHLOROPROPANE	18.38	283	195537	16.67	ug/L	66
21)	TRANS-1,3-DICHLOROPROPENE	19.99	309	222154	16.75	ug/L	100
22)	TRICHLOROETHENE	19.18	296	356700	26.00	ug/L	92
23)	DIBROMOCHLROMETHANE	19.92	308	223027	16.37	ug/L	95
24)	1,1,2-TRICHLOROETHANE	19.99	309	174653	17.15	ug/L	91
25)	BENZENE	19.68	304	577887	16.40	ug/L	100
26)	CIS-1,3-DICHLOROPROPENE	18.62	287	289039	16.14	ug/L	100
27)	2-CHLOROETHYLVINYL ETHER	21.04	326	94797	15.37	ug/L	90
28)	BROMOFORM	22.71	353	123378	15.75	ug/L	100
29)	*D5-CHLOROBENZENE(IS)	27.48	430	1019743	50.00	ug/L	100
30)	TETRACHLOROETHENE	25.00	390	128040	16.77	ug/L	90
31)	1,1,2,2-TETRACHLOROETHANE	25.13	392	282989	17.76	ug/L	100
32)	D8-TOLUENE(SS)	26.12	408	1361313	49.48	ug/L	98
33)	TOLUENE	26.30	411	340452	16.54	ug/L	93
34)	CHLOROBENZENE	27.60	432	393205	16.82	ug/L	64
35)	ETHYLBENZENE	29.90	469	204543	16.65	ug/L	99
36)	4-BROMOFLUOROBENZENE(SS)	33.00	519	707585	50.90	ug/L	84
37)	1,3-DICHLOROBENZENE	41.12	650	352347	17.62	ug/L	100
38)	1,2-DICHLOROBENZENE	42.48	672	344377	18.69	ug/L	100
39)	1,4-DICHLOROBENZENE	43.23	684	337783	10162.96	ug/L	100

* Compound is ISTD



MS data file header from : B4019

Sample: 100PPB VOA STD Operator: SUSAN MS 6/11/86 1:5
Misc : (#40866,40814;5UL)(#40625,10UL) IS,SS=50PPB(#40858,5UL)
Sys. #: 2B MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: VOAME2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 50 Transfer line temp. 0

Chromatographic temperatures :	50.	60.	0.	0.	.
Chromatographic times, min. :	1.0	13.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	0.0	0.0	0.0	0.0

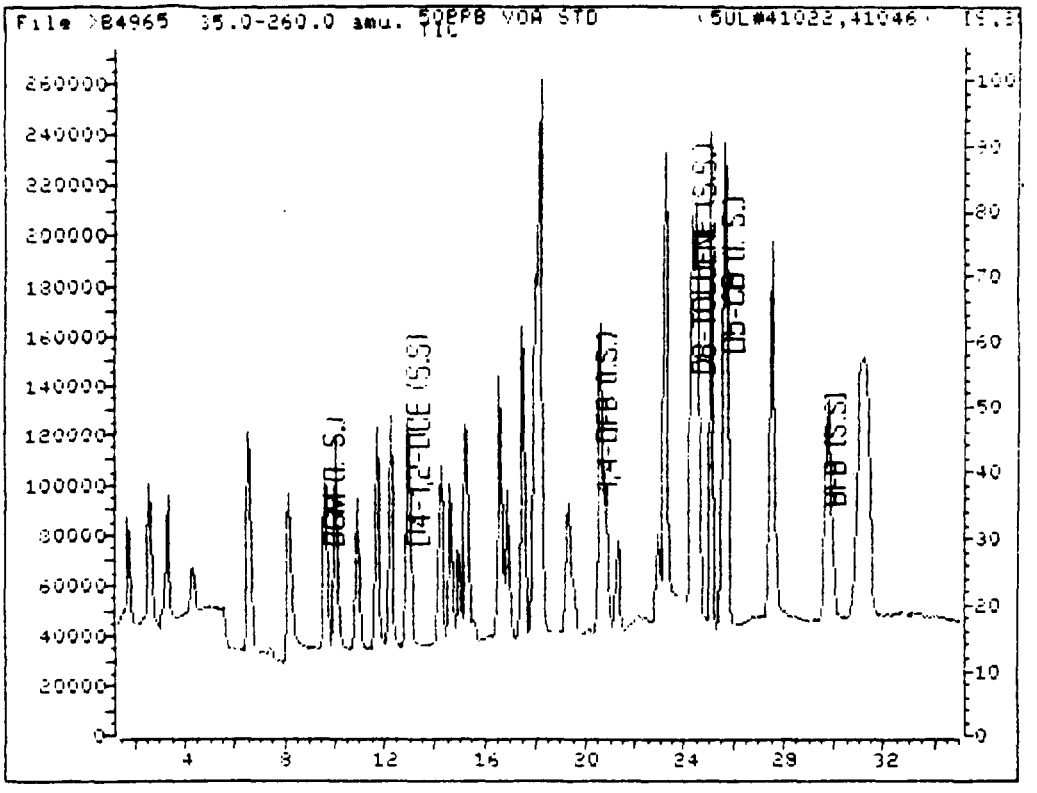
QUANT REPORT

Operator ID: SUSAN Quant Rev: 4 Quant Time: 860612 10:51
Output File: ^P4019::EE Injected at: 860611 15:58
Data File: >B4019::AA Dilution Factor: 1.000
Name: 100PPB VOA STD
Misc: (#40866,40814;5UL)(#40625,10UL) IS,SS=50PPB(#40858,5UL)

ID File: PPVID2::PS
Title: PRIORITY POLLUTANTS - METHOD 624
Last Calibration: 860611 13:07

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE(IS)	11.83	178	259100	50.00	ug/L	70
2)	CHLOROMETHANE	2.29	24	593590	90.84	ug/L	100
3)	BROMOMETHANE	3.59	45	871929	81.40	ug/L	99
4)	VINYL CHLORIDE	4.65	62	817972	83.47	ug/L	100
5)	CHLOROETHANE	5.88	82	538728	79.55	ug/L	100
6)	METHYLENE CHLORIDE	8.42	123	1012575	66.29	ug/L	69
7)	ACROLEIN	9.17	135	42549	87.80	ug/L	1
8)	ACRYLONITRILE	9.85	146	132989	91.35	ug/L	99
9)	TRICHLOROFLUOROMETHANE	10.59	158	859865	79.55	ug/L	100
10)	1,1-DICHLOROETHENE	11.33	170	736719	84.40	ug/L	78
11)	1,1-DICHLOROETHANE	12.63	191	1313265	85.36	ug/L	68
12)	TRANS-1,2-DICHLOROETHENE	13.25	201	826275	83.67	ug/L	70
13)	CHLOROFORM	13.93	212	1461866	83.80	ug/L	98
14)	D4-1,2-DICHLOROETHANE(SS)	14.55	222	360925	53.91	ug/L	100
15)	1,2-DICHLOROETHANE	14.67	224	573078	86.02	ug/L	96
16)	*1,4-DIFLUOROBENZENE(IS)	22.23	346	1201375	50.00	ug/L	100
17)	1,1,1-TRICHLOROETHANE	15.97	245	367616	78.84	ug/L	100
18)	CARBON TETRACHLORIDE	16.41	252	314653	80.27	ug/L	100
19)	BROMODICHLOROMETHANE	16.97	261	1410007	80.28	ug/L	100
20)	1,2-DICHLOROPROPANE	18.33	283	968047	84.58	ug/L	66
21)	TRANS-1,3-DICHLOROPROPENE	19.88	308	1083958	83.74	ug/L	100
22)	TRICHLOROETHENE	19.13	296	1052026	78.60	ug/L	91
23)	DIBROMOCHLROMETHANE	19.88	308	1058493	79.63	ug/L	94
24)	1,1,2-TRICHLOROETHANE	19.94	309	813770	81.89	ug/L	91
25)	BENZENE	19.63	304	2872621	83.54	ug/L	100
26)	CIS-1,3-DICHLOROPROPENE	18.58	287	1422957	81.45	ug/L	100
27)	2-CHLOROETHYLVINYL ETHER	20.99	326	470838	78.25	ug/L	93
28)	BROMOFORM	22.66	353	604058	79.04	ug/L	100
29)	*D5-CHLOROBENZENE(IS)	27.43	430	993434	50.00	ug/L	100
30)	TETRACHLOROETHENE	24.95	390	575240	77.35	ug/L	90
31)	1,1,2,2-TETRACHLOROETHANE	25.08	392	1283360	82.66	ug/L	100
32)	D8-TOLUENE(SS)	26.13	409	1356751	50.62	ug/L	97
33)	TOLUENE	26.32	412	1632657	81.42	ug/L	96
34)	CHLOROBENZENE	27.56	432	1954857	81.45	ug/L	63
35)	ETHYLBENZENE	29.91	470	943413	78.84	ug/L	99
36)	4-BROMOFLUOROBENZENE(SS)	33.01	520	676741	49.97	ug/L	87
37)	1,3-DICHLOROBENZENE	4[illegible].13	651	1512440	77.63	ug/L	100
38)	1,2-DICHLOROBENZENE	42.56	674	1327062	73.93	ug/L	100
39)	1,4-DICHLOROBENZENE	43.24	685	1560407	48191.70	ug/L	100

* Compound is ISTD



MS data file header from : >B4965

Sample: 50PPB VOA STD Operator: MIKE MS 9/03/86 15:52
Misc : (SUL#41022,41046) IS,SS=50PPB(SUL#41036)
Sys. #: 2B MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: VOAME2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 50 Transfer line temp. : 0

Chromatographic temperatures :	50.	60.	0.	0.	0.
Chromatographic times, min. :	1.0	13.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	0.0	0.0	0.0	0.0

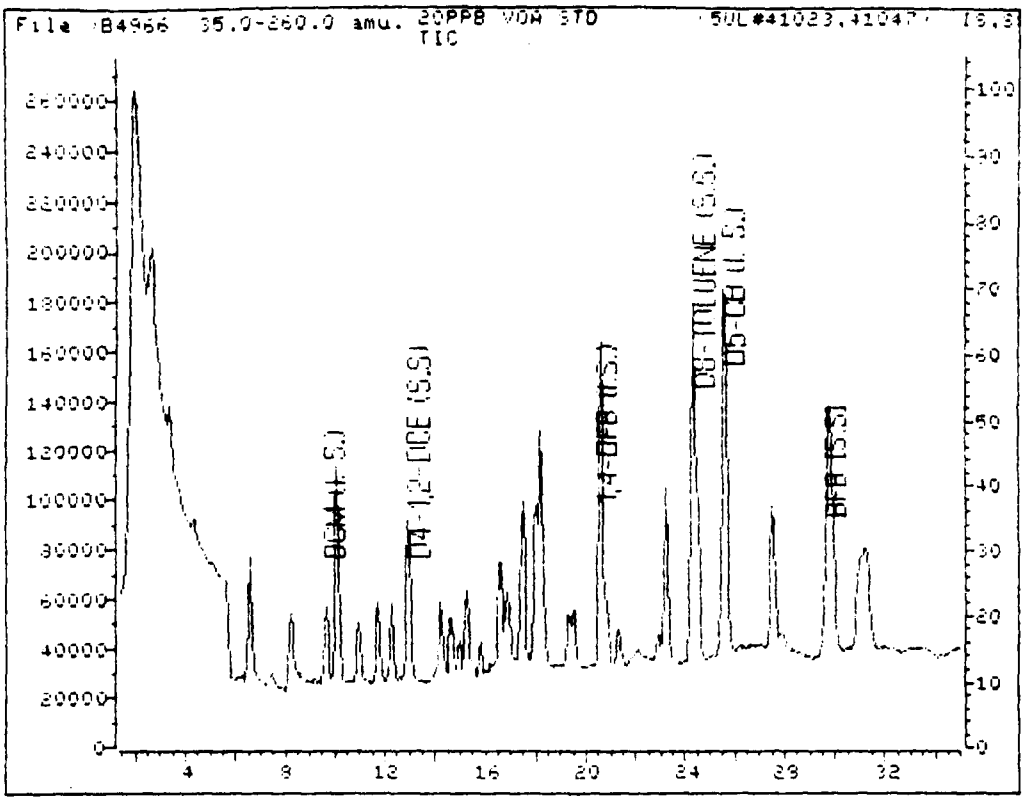
QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860903 20:51
Output File: ^B4965::AQ Injected at: 860903 15:52
Data File: >B4965::EE Dilution Factor: 1.00
Name: 50PPB VOA STD
Misc: (5UL#41022,41046) IS,SS=50PPB(5UL#41036)

ID File: VOAID2::EE
Title: VOLATILES BY USEPA SOW REV. 1/85
Last Calibration: 860903 20:51

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE(IS)	10.07	142	114228	50.00	ug/L	82
2)	CHLOROMETHANE	1.73	7	178342	49.99	ug/L	98
3)	BROMOMETHANE	2.59	21	201931	50.00	ug/L	98
4)	VINYL CHLORIDE	3.33	33	275431	50.00	ug/L	96
5)	CHLOROETHANE	4.32	49	131809	50.00	ug/L	99
6)	METHYLENE CHLORIDE	6.55	85	223209	50.00	ug/L	86
7)	ACETONE	7.48	100	60184	50.00	ug/L	96
8)	CARBON DISULFIDE	8.22	112	518309	50.00	ug/L	100
9)	1,1-DICHLOROETHENE	9.64	135	141396	50.00	ug/L	93
10)	1,1-DICHLOROETHANE	10.94	156	349345	50.00	ug/L	92
11)	TRANS-1,2-DICHLOROETHENE	11.74	169	173111	50.00	ug/L	97
12)	CHLOROFORM	12.30	178	358821	50.00	ug/L	91
13)	D4-1,2-DICHLOROETHANE(SS)	12.92	188	198417	50.00	ug/L	100
14)	1,2-DICHLOROETHANE	13.04	190	206867	50.00	ug/L	96
15)	*1,4-DIFLUOROBENZENE(IS)	20.58	312	554678	50.00	ug/L	100
16)	2-BUTANONE	13.04	190	18183	50.00	ug/L	87
17)	1,1,1-TRICHLOROETHANE	14.28	210	245596	50.00	ug/L	93
18)	CARBON TETRACHLORIDE	14.65	216	214402	50.00	ug/L	99
19)	VINYL ACETATE	14.96	221	329375	50.00	ug/L	100
20)	BROMODICHLOROMETHANE	15.26	226	351983	50.00	ug/L	92
21)	1,2-DICHLOROPROPANE	16.62	248	255432	50.00	ug/L	64
22)	CIS-1,3-DICHLOROPROPENE	16.93	253	235192	50.00	ug/L	96
23)	TRICHLOROETHENE	17.49	262	249982	50.00	ug/L	97
24)	DIBROMOCHLOROMETHANE	18.11	272	271839	50.00	ug/L	93
25)	1,1,2-TRICHLOROETHANE	18.23	274	177325	50.00	ug/L	88
26)	BENZENE	17.99	270	629045	50.00	ug/L	90
27)	TRANS-1,3-DICHLOROPROPENE	18.23	274	359428	50.00	ug/L	93
28)	2-CHLOROETHYLVINYLETHER	19.35	292	141226	50.00	ug/L	96
29)	BROMOFORM	20.83	316	184196	50.00	ug/L	98
30)	*D5-CHLOROBENZENE(IS)	25.59	393	459286	50.00	ug/L	100
31)	4-METHYL-2-PENTANONE	21.32	324	172464	50.00	ug/L	87
32)	2-HEXANONE	22.93	350	125612	50.00	ug/L	56
33)	TETRACHLOROETHENE	23.24	355	174784	50.00	ug/L	82
34)	1,1,2,2-TETRACHLOROETHANE	23.24	355	289481	50.00	ug/L	96
35)	D8-TOLUENE(SS)	24.35	373	601419	50.00	ug/L	97
36)	TOLUENE	24.54	376	397413	50.00	ug/L	87
37)	CHLOROBENZENE	25.72	395	446363	50.00	ug/L	85
38)	ETHYLBENZENE	27.57	425	222114	50.00	ug/L	83
39)	4-BROMOFLUOROBENZENE(SS)	29.80	461	319583	50.00	ug/L	95
40)	STYRENE	31.04	481	469991	50.00	ug/L	73
41)	TOTAL XYLENES	31.35	486	274507	50.00	ug/L	70

* Compound is ISTD



MS data file header from : :B4966

Sample: 20PPB VOA STD Operator: MIKE MS 9/03/96 17:06
Misc : (SUL#41023,41047) IS,SS=50PPB(SUL#41036)
Sys. #: 2 MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: VOAME2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 50 Transfer line temp. : 0

Chromatographic temperatures :	50.	50.	0.	0.	0.
Chromatographic times, min. :	1.0	13.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	0.0	0.0	0.0	0.0

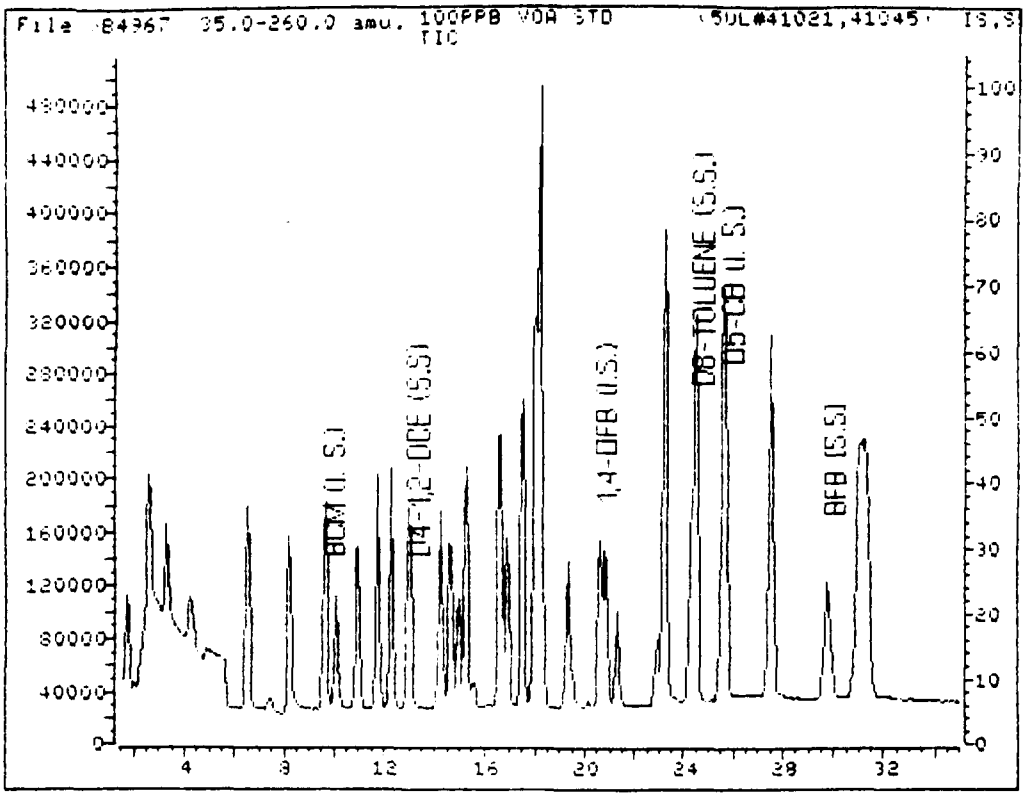
QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860903 17:43
Output File: ^B4966::AQ Injected at: 860903 17:06
Data File: >B4966::EE Dilution Factor: 1.00
Name: 20PPB VOA STD
Misc: (5UL#41023,41047) IS,SS=50PPB(5UL#41036)

ID File: VOAID2::EE
Title: VOLATILES BY USEPA SOW REV. 1/85
Last Calibration: 860818 21:32

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE(IS)	10.11	142	113995	50.00	ug/L	74
2)	CHLOROMETHANE	1.77	7	74669	23.41	ug/L	98
3)	BROMOMETHANE	2.63	21	75023	16.44	ug/L	95
4)	VINYL CHLORIDE	3.37	33	105066	26.49	ug/L	95
5)	CHLOROETHANE	4.36	49	51635	15.94	ug/L	97
6)	METHYLENE CHLORIDE	6.59	85	132639	14.92	ug/L	86
7)	ACETONE	7.52	100	49904	56.83	ug/L	88
8)	CARBON DISULFIDE	8.26	112	208518	15.51	ug/L	100
9)	1,1-DICHLOROETHENE	9.68	135	58680	16.41	ug/L	91
10)	1,1-DICHLOROETHANE	10.98	156	139146	18.23	ug/L	92
11)	TRANS-1,2-DICHLOROETHENE	11.78	169	68874	16.58	ug/L	92
12)	CHLOROFORM	12.28	177	140476	17.28	ug/L	90
13)	D4-1,2-DICHLOROETHANE(SS)	12.96	188	192166	49.14	ug/L	100
14)	1,2-DICHLOROETHANE	13.02	189	79295	19.87	ug/L	99
15)	*1,4-DIFLUOROBENZENE(IS)	20.62	312	549309	50.00	ug/L	100
16)	2-BUTANONE	13.08	190	12327	28.99	ug/L	83
17)	1,1,1-TRICHLOROETHANE	14.25	209	102406	21.20	ug/L	96
18)	CARBON TETRACHLORIDE	14.62	215	84820	21.77	ug/L	96
19)	VINYL ACETATE	15.00	221	125449	19.80	ug/L	100
20)	BROMODICHLOROMETHANE	15.30	226	135262	18.24	ug/L	93
21)	1,2-DICHLOROPROPANE	16.60	247	107797	20.15	ug/L	64
22)	CIS-1,3-DICHLOROPROPENE	16.91	252	99133	19.33	ug/L	96
23)	TRICHLOROETHENE	17.53	262	130100	24.51	ug/L	92
24)	DIBROMOCHLOROMETHANE	18.15	272	116748	20.28	ug/L	93
25)	1,1,2-TRICHLOROETHANE	18.21	273	75629	18.33	ug/L	89
26)	BENZENE	17.96	269	265901	18.68	ug/L	91
27)	TRANS-1,3-DICHLOROPROPENE	18.21	273	154877	19.61	ug/L	95
28)	2-CHLOROETHYLVINYLETHER	19.32	291	58568	20.31	ug/L	95
29)	BROMOFORM	20.87	316	73739	21.01	ug/L	98
30)	*D5-CHLOROBENZENE(IS)	25.57	392	465668	50.00	ug/L	100
31)	4-METHYL-2-PENTANONE	21.36	324	78356	24.48	ug/L	91
32)	2-HEXANONE	22.97	350	55811	27.48	ug/L	58
33)	TETRACHLOROETHENE	23.28	355	67286	22.26	ug/L	77
34)	1,1,2,2-TETRACHLOROETHANE	23.22	354	113533	16.71	ug/L	94
35)	D8-TOLUENE(SS)	24.33	372	604725	50.43	ug/L	98
36)	TOLUENE	24.58	376	157345	19.57	ug/L	88
37)	CHLOROBENZENE	25.69	394	185100	20.56	ug/L	86
38)	ETHYLBENZENE	27.55	424	90279	20.35	ug/L	80
39)	4-BROMOFLUOROBENZENE(SS)	29.77	460	319982	45.55	ug/L	97
40)	STYRENE	31.01	480	183469	19.09	ug/L	72
41)	TOTAL XYLENES	31.32	485	113590	20.70	ug/L	67

* Compound is ISTD



MS data file header from : 84967

Sample: 100PPB VOA STD Operator: MIKE MS 9/03/86 17:52
Misc : (SUL#41021,41045) IS,SS=50PPB(SUL#41036)
Sys. #: 20 MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: VOAME2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 50 Transfer line temp. : 0

Chromatographic temperatures :	50.	60.	0.	0.	0.
Chromatographic times, min. :	1.0	13.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	0.0	0.0	0.0	0.0

027-08

QUANT REPORT

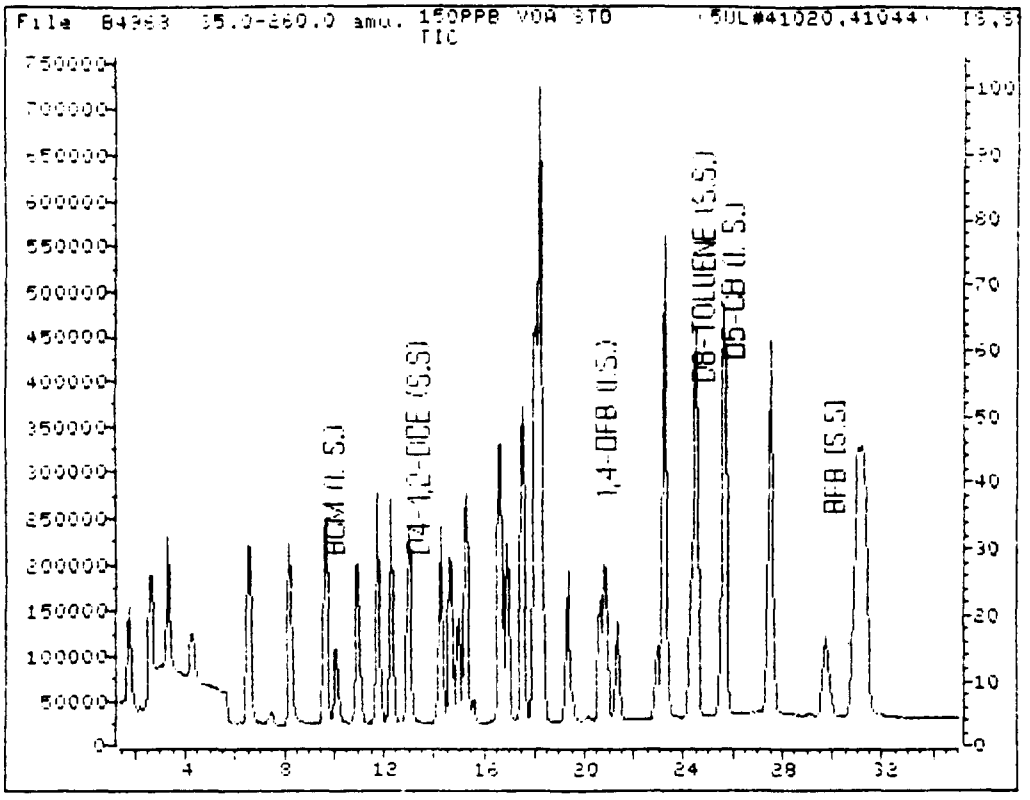
Operator ID: MIKE Quant Rev: 4 Quant Time: 860903 18:32
Output File: ^84967::AQ Injected at: 860903 17:52
Data File: >84967::EE Dilution Factor: 1.00
Name: 100PPB VOA STD
Misc: (5UL#41021,41045) IS,SS=50PPB(5UL#41036)

ID File: VOAID2::EE
Title: VOLATILES BY USEPA SOW REV. 1/85
Last Calibration: 860818 21:32

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE(IS)	10.06	142	112770	50.00	ug/L	87
2)	CHLOROMETHANE	1.71	7	329311	104.36	ug/L	98
3)	BROMOMETHANE	2.58	21	357664	79.23	ug/L	98
4)	VINYL CHLORIDE	3.32	33	502539	128.07	ug/L	95
5)	CHLOROETHANE	4.25	48	253860	79.21	ug/L	99
6)	METHYLENE CHLORIDE	6.54	85	361171	41.07	ug/L	84
7)	ACETONE	7.46	100	88025	101.32	ug/L	79
8)	CARBON DISULFIDE	8.20	112	1086081	81.68	ug/L	100
9)	1,1-DICHLOROETHENE	9.69	136	295806	83.60	ug/L	90
10)	1,1-DICHLOROETHANE	10.99	157	730390	96.73	ug/L	91
11)	TRANS-1,2-DICHLOROETHENE	11.79	170	349284	84.98	ug/L	90
12)	CHLOROFORM	12.35	179	728968	90.66	ug/L	92
13)	D4-1,2-DICHLOROETHANE(SS)	12.96	189	222324	57.47	ug/L	100
14)	1,2-DICHLOROETHANE	13.03	190	434502	110.04	ug/L	96
5)	*1,4-DIFLUOROBENZENE(IS)	20.63	313	515157	50.00	ug/L	100
16)	2-BUTANONE	13.03	190	32719	82.05	ug/L	86
17)	1,1,1-TRICHLOROETHANE	14.26	210	517488	114.26	ug/L	95
18)	CARBON TETRACHLORIDE	14.63	216	434027	118.80	ug/L	97
19)	VINYL ACETATE	15.00	222	697523	117.39	ug/L	100
20)	BROMODICHLOROMETHANE	15.31	227	697540	100.29	ug/L	93
21)	1,2-DICHLOROPROPANE	16.61	248	519834	103.63	ug/L	63
22)	CIS-1,3-DICHLOROPROPENE	16.92	253	482435	100.30	ug/L	95
23)	TRICHLOROETHENE	17.48	262	458812	92.18	ug/L	98
24)	DIBROMOCHLOROMETHANE	18.09	272	571659	105.91	ug/L	93
25)	1,1,2-TRICHLOROETHANE	18.22	274	354817	91.68	ug/L	90
26)	BENZENE	17.97	270	1281803	96.04	ug/L	90
27)	TRANS-1,3-DICHLOROPROPENE	18.22	274	763770	103.13	ug/L	95
28)	2-CHLOROETHYLVINYLETHER	19.33	292	289369	107.02	ug/L	96
29)	BROMOFORM	20.81	316	353569	107.41	ug/L	98
30)	*D5-CHLOROBENZENE(IS)	25.58	393	449405	50.00	ug/L	100
31)	4-METHYL-2-PENTANONE	21.31	324	359527	116.41	ug/L	88
32)	2-HEXANONE	22.92	350	236979	120.91	ug/L	58
33)	TETRACHLOROETHENE	23.23	355	324859	111.38	ug/L	83
34)	1,1,2,2-TETRACHLOROETHANE	23.23	355	549361	83.80	ug/L	94
35)	D8-TOLUENE(SS)	24.34	373	584352	50.50	ug/L	98
36)	TOLUENE	24.52	376	728685	93.91	ug/L	88
37)	CHLOROBENZENE	25.64	394	882191	101.52	ug/L	90
38)	ETHYLBENZENE	27.55	425	433899	101.34	ug/L	82
39)	4-BROMOFLUOROBENZENE(SS)	29.78	461	309050	45.59	ug/L	97
40)	STYRENE	31.02	481	895513	96.54	ug/L	69
41)	TOTAL XYLENES	31.27	485	537930	101.58	ug/L	67

* Compound is ISTD

2 2 0393
026-09



MS data file header from : 84968

Sample: 150PPB VOA STD Operator: MIKE MS 9/03/86 18:38
Misc : (SUL#41020,41044) IS,SS=50PPB(SUL#41036)
Sys. #: 26 MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: VOAME2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 50 Transfer line temp. : 0

Chromatographic temperatures :	50.	60.	0.	0.	0.
Chromatographic times, min. :	1.0	13.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	0.0	0.0	0.0	0.0

2 2 0394
027-09

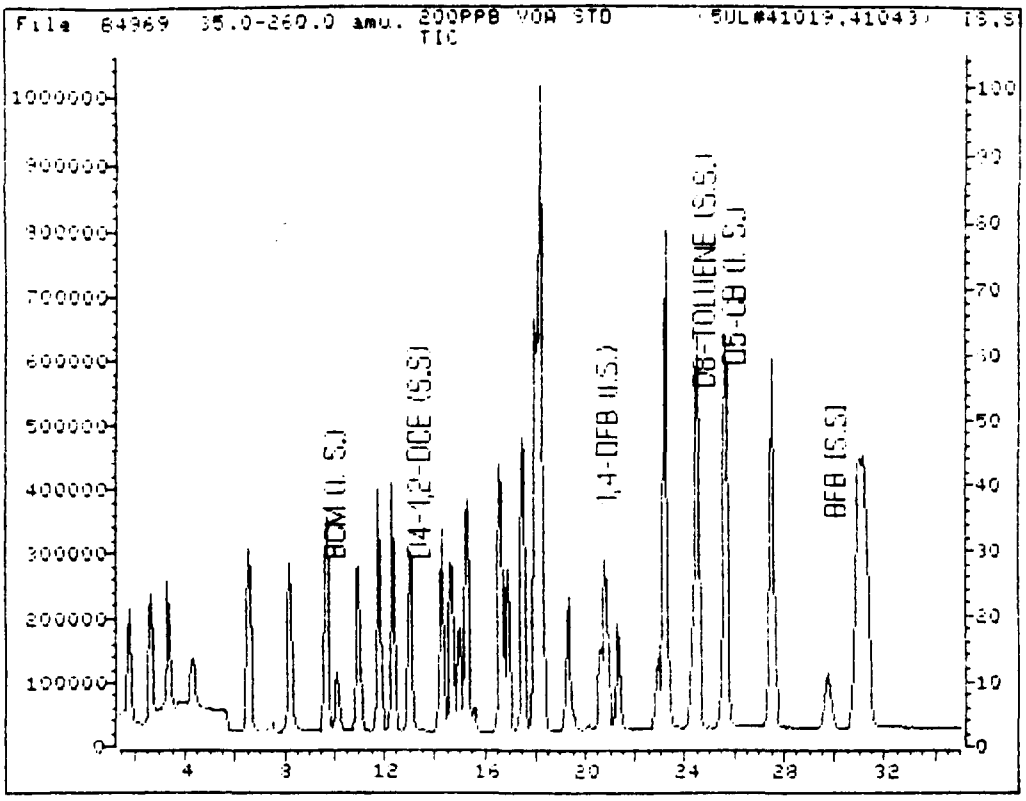
QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860903 19:16
Output File: ^B4968::AQ Injected at: 860903 18:38
Data File: >B4968::EE Dilution Factor: 1.00
Name: 150PPB VOA STD
Misc: (5UL#41020,41044) IS,SS=50PPB(5UL#41036)

ID File: VOAID2::EE
Title: VOLATILES BY USEPA SOW REV. 1/85
Last Calibration: 860818 21:32

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE(IS)	10.06	142	113898	50.00	ug/L	84
2)	CHLOROMETHANE	1.77	8	519218	162.91	ug/L	96
3)	BROMOMETHANE	2.64	22	530373	116.33	ug/L	96
4)	VINYL CHLORIDE	3.32	33	809018	204.13	ug/L	95
5)	CHLOROETHANE	4.25	48	386149	119.29	ug/L	98
6)	METHYLENE CHLORIDE	6.53	85	512907	57.75	ug/L	86
7)	ACETONE	7.46	100	112134	127.80	ug/L	76
8)	CARBON DISULFIDE	8.20	112	1636826	121.88	ug/L	100
9)	1,1-DICHLOROETHENE	9.69	136	443216	124.02	ug/L	90
10)	1,1-DICHLOROETHANE	10.98	157	1047553	137.36	ug/L	91
11)	TRANS-1,2-DICHLOROETHENE	11.73	169	518398	124.88	ug/L	97
12)	CHLOROFORM	12.28	178	1060385	130.58	ug/L	93
13)	D4-1,2-DICHLOROETHANE(SS)	12.96	189	231882	59.34	ug/L	100
14)	1,2-DICHLOROETHANE	13.02	190	626708	157.14	ug/L	96
5)	*1,4-DIFLUOROBENZENE(IS)	20.63	313	520167	50.00	ug/L	100
6)	2-BUTANONE	13.02	190	47401	117.72	ug/L	86
17)	1,1,1-TRICHLOROETHANE	14.26	210	750049	164.01	ug/L	96
18)	CARBON TETRACHLORIDE	14.63	216	631898	171.30	ug/L	97
19)	VINYL ACETATE	15.00	222	977180	162.87	ug/L	100
20)	BROMODICHLOROMETHANE	15.31	227	992661	141.35	ug/L	93
21)	1,2-DICHLOROPROPANE	16.61	248	781715	154.34	ug/L	64
22)	CIS-1,3-DICHLOROPROPENE	16.92	253	714106	147.04	ug/L	96
23)	TRICHLOROETHENE	17.54	263	656151	130.56	ug/L	89
24)	DIBROMOCHLOROMETHANE	18.15	273	831587	152.58	ug/L	96
25)	1,1,2-TRICHLOROETHANE	18.22	274	531072	135.90	ug/L	91
26)	BENZENE	17.97	270	1906488	141.46	ug/L	91
27)	TRANS-1,3-DICHLOROPROPENE	18.22	274	1146716	153.34	ug/L	95
28)	2-CHLOROETHYLVINYLETHER	19.33	292	424023	155.32	ug/L	96
29)	BROMOFORM	20.81	316	521992	157.05	ug/L	98
30)	*D5-CHLOROBENZENE(IS)	25.51	392	467814	50.00	ug/L	100
31)	4-METHYL-2-PENTANONE	21.31	324	559173	173.93	ug/L	90
32)	2-HEXANONE	22.91	350	372811	182.73	ug/L	60
33)	TETRACHLOROETHENE	23.22	355	487537	160.57	ug/L	81
34)	1,1,2,2-TETRACHLOROETHANE	23.22	355	844860	123.80	ug/L	95
35)	D8-TOLUENE(SS)	24.34	373	606094	50.32	ug/L	97
36)	TOLUENE	24.52	376	1087464	134.63	ug/L	87
37)	CHLOROBENZENE	25.64	394	1304185	144.17	ug/L	86
38)	ETHYLBENZENE	27.49	424	649102	145.64	ug/L	79
39)	4-BROMOFLUOROBENZENE(SS)	29.72	460	317574	45.00	ug/L	98
40)	STYRENE	30.95	480	1369355	141.82	ug/L	71
1)	TOTAL XYLENES	31.26	485	806623	146.32	ug/L	67

* Compound is ISTD



MS data file header from : 84969

Sample: 200PPB VOA STD Operator: MIKE MS 9/03/96 19:27
Misc : (SUL#41019,41043) IS,SS=50PPB(SUL#41036)
Sys. #: 2B MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: VOAME2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 50 Transfer line temp. : 0

Chromatographic temperatures :	50.	60.	0.	0.	0.
Chromatographic times, min. :	1.0	13.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	0.0	0.0	0.0	0.0

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027-10

QUANT REPORT

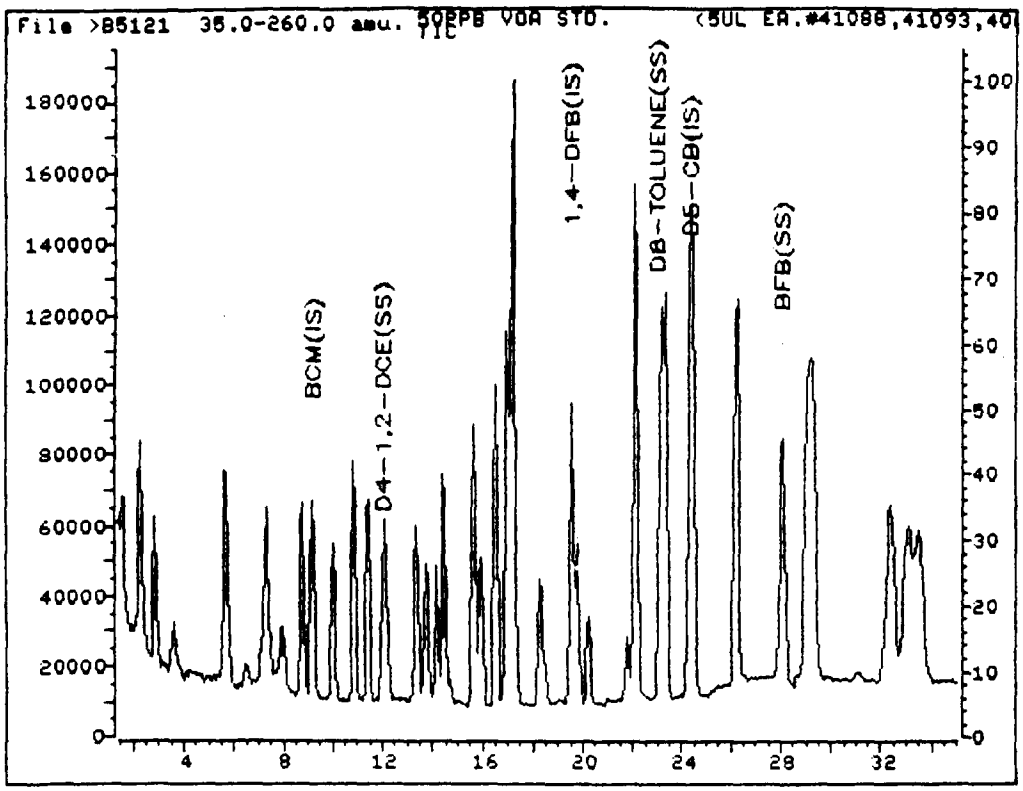
Operator ID: MIKE Quant Rev: 4 Quant Time: 860903 20:11
Output File: ^B4969::AQ Injected at: 860903 19:27
Data File: >B4969::EE Dilution Factor: 1.00
Name: 200PPB VOA STD
Misc: (5UL#41019,41043) IS,SS=50PPB(5UL#41036)

ID File: VOAID2::EE
Title: VOLATILES BY USEPA SOW REV. 1/85
Last Calibration: 860818 21:32

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE(IS)	10.12	143	114601	50.00	ug/L	71
2)	CHLOROMETHANE	1.77	8	762450	237.77	ug/L	96
3)	BROMOMETHANE	2.64	22	707487	154.23	ug/L	99
4)	VINYL CHLORIDE	3.32	33	1078356	270.43	ug/L	95
5)	CHLOROETHANE	4.31	49	519256	159.43	ug/L	99
6)	METHYLENE CHLORIDE	6.53	85	678931	75.98	ug/L	84
7)	ACETONE	7.46	100	151914	172.07	ug/L	72
8)	CARBON DISULFIDE	8.20	112	2312718	171.15	ug/L	100
9)	1,1-DICHLOROETHENE	9.69	136	645126	179.41	ug/L	91
10)	1,1-DICHLOROETHANE	10.98	157	1519494	198.02	ug/L	92
11)	TRANS-1,2-DICHLOROETHENE	11.79	170	738848	176.89	ug/L	94
12)	CHLOROFORM	12.34	179	1496604	183.16	ug/L	92
13)	D4-1,2-DICHLOROETHANE(SS)	12.96	189	244480	62.18	ug/L	100
14)	1,2-DICHLOROETHANE	13.09	191	893016	222.54	ug/L	95
15)	*1,4-DIFLUOROBENZENE(IS)	20.56	312	527587	50.00	ug/L	100
16)	2-BUTANONE	13.02	190	64626	158.24	ug/L	86
17)	1,1,1-TRICHLOROETHANE	14.26	210	1088996	234.78	ug/L	96
18)	CARBON TETRACHLORIDE	14.63	216	921244	246.23	ug/L	97
19)	VINYL ACETATE	15.00	222	1388119	228.11	ug/L	100
20)	BROMODICHLOROMETHANE	15.31	227	1433639	201.27	ug/L	94
21)	1,2-DICHLOROPROPANE	16.61	248	1029899	200.48	ug/L	64
22)	CIS-1,3-DICHLOROPROPENE	16.92	253	966784	196.27	ug/L	96
23)	TRICHLOROETHENE	17.47	262	901910	176.94	ug/L	96
24)	DIBROMOCHLOROMETHANE	18.09	272	1172188	212.05	ug/L	97
25)	1,1,2-TRICHLOROETHANE	18.22	274	758516	191.37	ug/L	89
26)	BENZENE	17.97	270	2699832	197.51	ug/L	91
27)	TRANS-1,3-DICHLOROPROPENE	18.22	274	1621717	213.81	ug/L	95
28)	2-CHLOROETHYLVINYLETHER	19.33	292	549581	198.48	ug/L	97
29)	BROMOFORM	20.81	316	765989	227.22	ug/L	98
30)	*D5-CHLOROBENZENE(IS)	25.51	392	471081	50.00	ug/L	100
31)	4-METHYL-2-PENTANONE	21.31	324	793770	245.19	ug/L	90
32)	2-HEXANONE	22.91	350	531240	258.57	ug/L	60
33)	TETRACHLOROETHENE	23.22	355	708474	231.72	ug/L	82
34)	1,1,2,2-TETRACHLOROETHANE	23.22	355	1214452	176.73	ug/L	95
35)	D8-TOLUENE(SS)	24.34	373	600990	49.55	ug/L	97
36)	TOLUENE	24.52	376	1557140	191.44	ug/L	88
37)	CHLOROBENZENE	25.63	394	1852282	203.35	ug/L	87
38)	ETHYLBENZENE	27.49	424	934944	208.32	ug/L	80
39)	4-BROMOFLUOROBENZENE(SS)	29.72	460	305411	42.98	ug/L	98
40)	STYRENE	30.95	480	1950035	200.56	ug/L	72
41)	TOTAL XYLENES	31.20	484	1156285	208.30	ug/L	67

* Compound is ISTD

026-11



MS data file header from : >B5121

Sample: 50PPB VOA STD. Operator: MIKE MS 9/21/86 13:59
Misc : (SUL EA.#41088,41093,40625) IS,SS=50PPB(SUL#41036)
Sys. #: 2 MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: VOAME2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 0 Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

POOR LEGIBILITY

PORTIONS OF THIS DOCUMENT MAY BE UNREADABLE, DUE TO THE QUALITY OF THE ORIGINAL

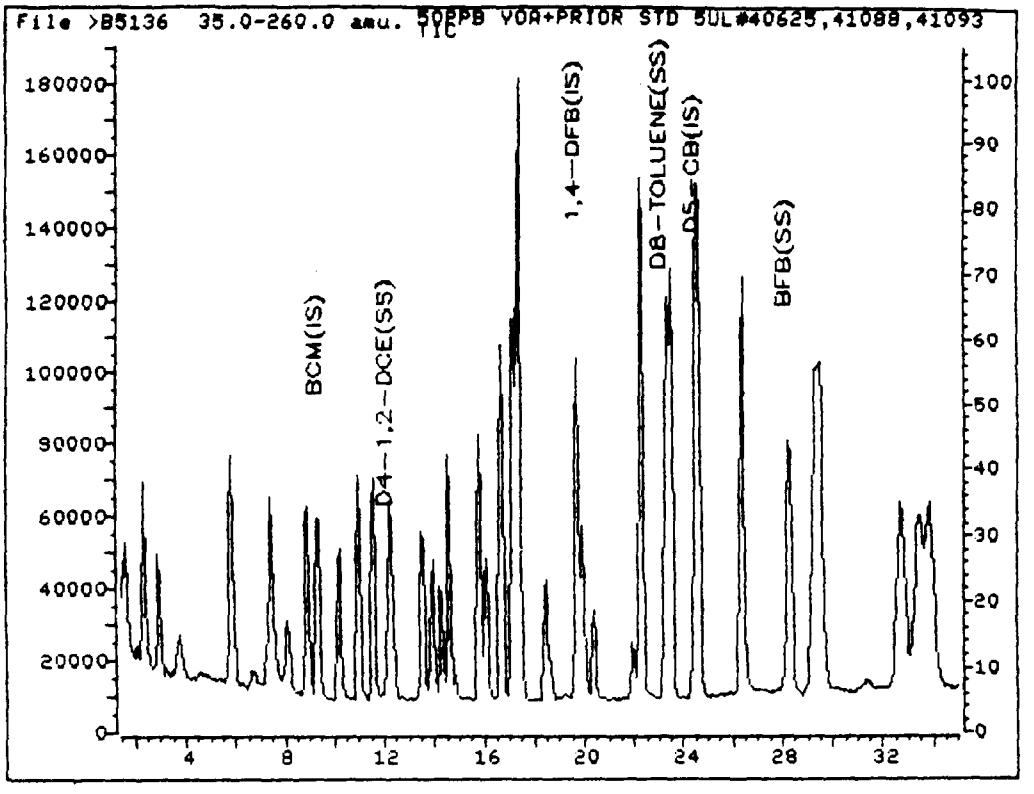
QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860921 17:27
Output File: ^P5121::AQ Injected at: 860921 13:59
Data File: >B5121::BB Dilution Factor: 1.00
Name: 50PPB VOA STD.
Misc: (50UL EA.#41088,41093,40625) IS,SS=50PPB(50UL #41036)

ID File: PPVID2::PS
Title: PRIORITY POLLUTANTS - METHOD 624
Last Calibration: 860921 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE(IS)	9.14	127	86211	50.00	ug/L	94
2)	CHLOROMETHANE	1.59	5	108945	50.00	ug/L	97
3)	BROMOMETHANE	2.27	16	189579	50.00	ug/L	99
4)	VINYL CHLORIDE	2.83	25	289960	50.00	ug/L	97
5)	CHLOROETHANE	3.57	37	96978	50.00	ug/L	97
6)	METHYLENE CHLORIDE	5.61	70	192941	50.00	ug/L	[illegible]
7)	ACROLEIN	6.42	83	10842	50.00	ug/L	95
8)	ACRYLONITRILE	7.10	94	41066	50.00	ug/L	99
9)	TRICHLOROFLUOROMETHANE	7.97	108	900720	50.00	ug/L	99
10)	1,1-DICHLOROETHENE	8.77	121	138913	50.00	ug/L	94
11)	1,1-DICHLOROETHANE	10.01	141	250889	50.00	ug/L	67
12)	TRANS-1,2-DICHLOROETHENE	10.82	154	149705	50.00	ug/L	98
[illegible])	CHLOROFORM	11.43	164	255897	50.00	ug/L	96
[illegible])	D4-1,2-DICHLOROETHANE(SS)	12.05	174	114664	50.00	ug/L	100
[illegible])	1,2-DICHLOROETHANE	12.12	175	133315	50.00	ug/L	88
16)	*1,4-DIFLUOROBENZENE(IS)	12.55	195	483863	50.00	ug/L	100
17)	1,1,1-TRICHLOROETHANE	13.35	195	180965	50.00	ug/L	91
18)	CARBON TETRACHLORIDE	13.73	201	140181	50.00	ug/L	94
19)	BROMODICHLOROMETHANE	14.41	212	249342	50.00	ug/L	97
20)	1,2-DICHLOROPROPANE	15.65	232	195574	50.00	ug/L	98
21)	TRANS-1,3-DICHLOROPROPENE	17.19	257	255994	50.00	ug/L	94
22)	TRICHLOROETHENE	16.51	246	172687	50.00	ug/L	[illegible]
23)	DIBROMOCHLOROMETHANE	17.13	256	219717	50.00	ug/L	94
24)	1,1,2-TRICHLOROETHANE	17.19	257	147528	50.00	ug/L	97
25)	BENZENE	16.95	253	503987	50.00	ug/L	91
26)	CIS-1,3-DICHLOROPROPENE	15.96	237	171457	50.00	ug/L	[illegible]
27)	2-CHLOROETHYL VINYL ETHER	18.25	274	103837	50.00	ug/L	96
28)	BROMOFORM	19.73	298	143552	50.00	ug/L	[illegible]
29)	*D5-CHLOROBENZENE(IS)	24.32	372	348631	50.00	ug/L	100
30)	TETRACHLOROETHENE	22.09	336	176166	50.00	ug/L	95
31)	1,1,2,2-TETRACHLOROETHANE	22.09	335	243049	50.00	ug/L	94
32)	D8-TOLUENE(SS)	23.14	353	445427	50.00	ug/L	99
33)	TOLUENE	23.33	356	298465	50.00	ug/L	94
34)	CHLOROBENZENE	24.34	374	341345	50.00	ug/L	97
35)	ETHYLBENZENE	26.17	402	179252	50.00	ug/L	97
36)	4-BROMOFLUOROBENZENE(SS)	28.10	433	221572	50.00	ug/L	95
37)	1,3-DICHLOROBENZENE	32.37	502	303598	50.00	ug/L	95
38)	1,2-DICHLOROBENZENE	33.05	513	299123	50.00	ug/L	[illegible]
[illegible])	1,4-DICHLOROBENZENE	33.49	520	282798	50.00	ug/L	100

* Compound is ISTD



MS data file header from : >B5136

Sample: 50PPB VOA+PRIOR STD Operator: MIKE MS 9/22/86 10:13
Misc : SUL#40625,41088,41093 IS,SS=50PPB(SUL#41036)
Sys. #: 2B MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: VOAME2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 0 Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

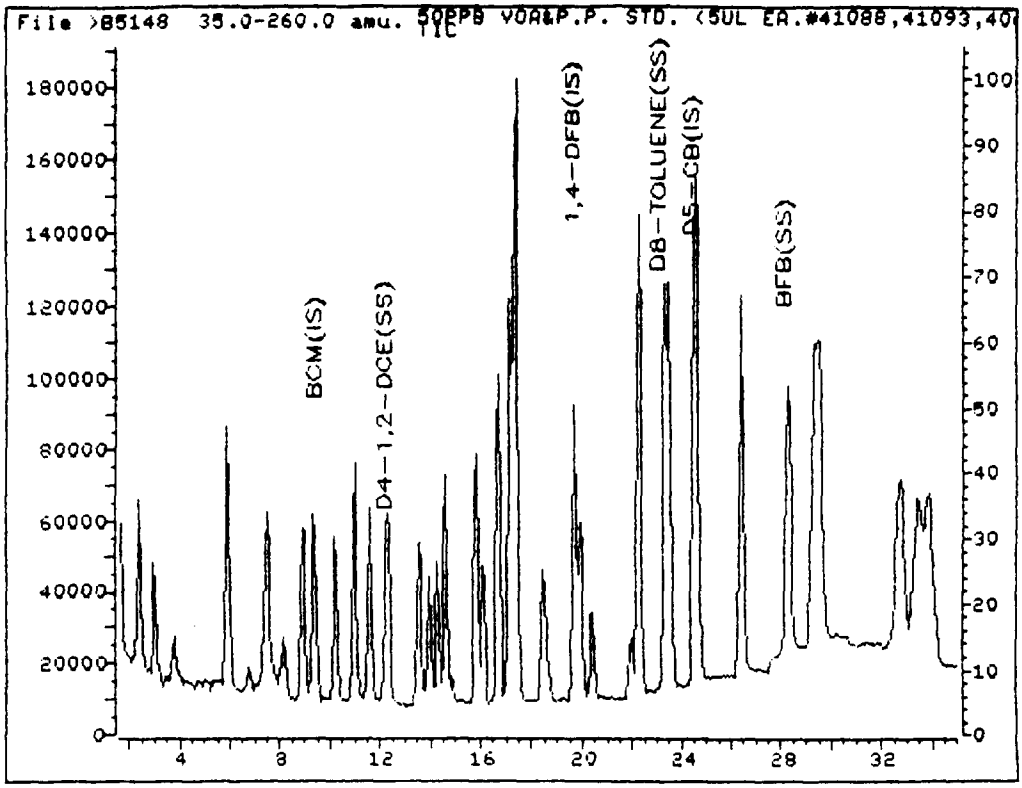
QUANT REPORT

erator ID: MIKE Quant Rev: 4 Quant Time: 860922 11:25
Output File: ^P5136::AQ Injected at: 860922 10:13
Data File: >B5136::BB Dilution Factor: 1.00
Name: 50PPB VOA+PRIOR STD
Misc: 5UL#40625,41088,41093 IS,SS=50PPB(5UL#41036)

ID File: PPVID2::PS
Title: PRIORITY POLLUTANTS - METHOD 624
Last Calibration: 860922 11:16

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE(IS)	9.30	129	89086	50.00	ug/L	85
2)	CHLOROMETHANE	1.62	5	95242	50.00	ug/L	[illegible]
3)	BROMOMETHANE	2.36	12	182042	50.00	ug/L	99
4)	VINYL CHLORIDE	2.92	26	182533	50.00	ug/L	[illegible]
5)	CHLOROETHANE	3.23	39	92863	50.00	ug/L	97
6)	METHYLENE CHLORIDE	5.33	73	188071	50.00	ug/L	[illegible]
7)	ACROLEIN	6.64	86	10240	50.00	ug/L	92
8)	ACRYLONITRILE	7.26	96	35020	50.00	ug/L	[illegible]
9)	TRICHLOROFLUOROMETHANE	8.12	110	89293	50.00	ug/L	99
10)	1,1-DICHLOROETHENE	8.87	122	154788	50.00	ug/L	[illegible]
11)	1,1-DICHLOROETHANE	10.23	144	236221	50.00	ug/L	67
12)	TRANS-1,2-DICHLOROETHENE	10.97	156	143524	50.00	ug/L	[illegible]
	CHLOROFORM	11.59	166	266886	50.00	ug/L	94
[illegible])	D4-1,2-DICHLOROETHANE(SS)	12.21	176	116709	50.00	ug/L	[illegible]
[illegible])	1,2-DICHLOROETHANE	12.33	178	127340	50.00	ug/L	98
16)	*1,4-DIFLUOROBENZENE(IS)	19.70	292	435111	50.00	ug/L	[illegible]
17)	1,1,1-TRICHLOROETHANE	13.51	192	178605	50.00	ug/L	93
18)	CARBON TETRACHLORIDE	13.94	204	140375	50.00	ug/L	[illegible]
19)	BROMODICHLOROMETHANE	14.56	214	244839	50.00	ug/L	94
20)	1,2-DICHLOROPROPANE	15.90	234	186514	50.00	ug/L	[illegible]
21)	TRANS-1,3-DICHLOROPROPENE	17.35	259	261571	50.00	ug/L	93
22)	TRICHLOROETHENE	16.67	248	200870	50.00	ug/L	[illegible]
23)	DIBROMOCHLOROMETHANE	17.29	258	233682	50.00	ug/L	94
24)	1,1,2-TRICHLOROETHANE	17.41	260	149254	50.00	ug/L	[illegible]
25)	BENZENE	17.10	255	540183	50.00	ug/L	91
26)	CIS-1,3-DICHLOROPROPENE	16.11	239	170770	50.00	ug/L	[illegible]
27)	2-CHLOROETHYL VINYL ETHER	18.47	277	100883	50.00	ug/L	95
28)	BROMOFORM	19.89	300	155913	50.00	ug/L	[illegible]
29)	*D5-CHLOROBENZENE(IS)	24.47	374	374258	50.00	ug/L	100
30)	TETRACHLOROETHENE	22.74	338	150240	50.00	ug/L	[illegible]
31)	1,1,2,2-TETRACHLOROETHANE	22.24	338	230423	50.00	ug/L	93
32)	D8-TOLUENE(SS)	23.30	355	459243	50.00	ug/L	[illegible]
33)	TOLUENE	23.48	358	315815	50.00	ug/L	92
34)	CHLOROBENZENE	24.40	376	365552	50.00	ug/L	[illegible]
35)	ETHYLBENZENE	26.39	405	187726	50.00	ug/L	[illegible]
36)	4-BROMOFLUOROBENZENE(SS)	28.25	435	223299	50.00	ug/L	[illegible]
37)	1,3-DICHLOROBENZENE	32.71	507	329493	50.00	ug/L	95
[illegible])	1,2-DICHLOROBENZENE	33.40	518	313190	50.00	ug/L	[illegible]
[illegible])	1,4-DICHLOROBENZENE	33.83	525	349204	50.00	ug/L	101

* Compound is ISTD



MS data file header from : >B5148

Sample: 50PPB VOA&P.P. STD. Operator: MIKE MS 9/22/86 23:08
Misc : (SUL EA.#41088,41093,40625) IS,SS=50PPB(SUL#41036)
Sys. #: 2B MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: VOAME2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 0 Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

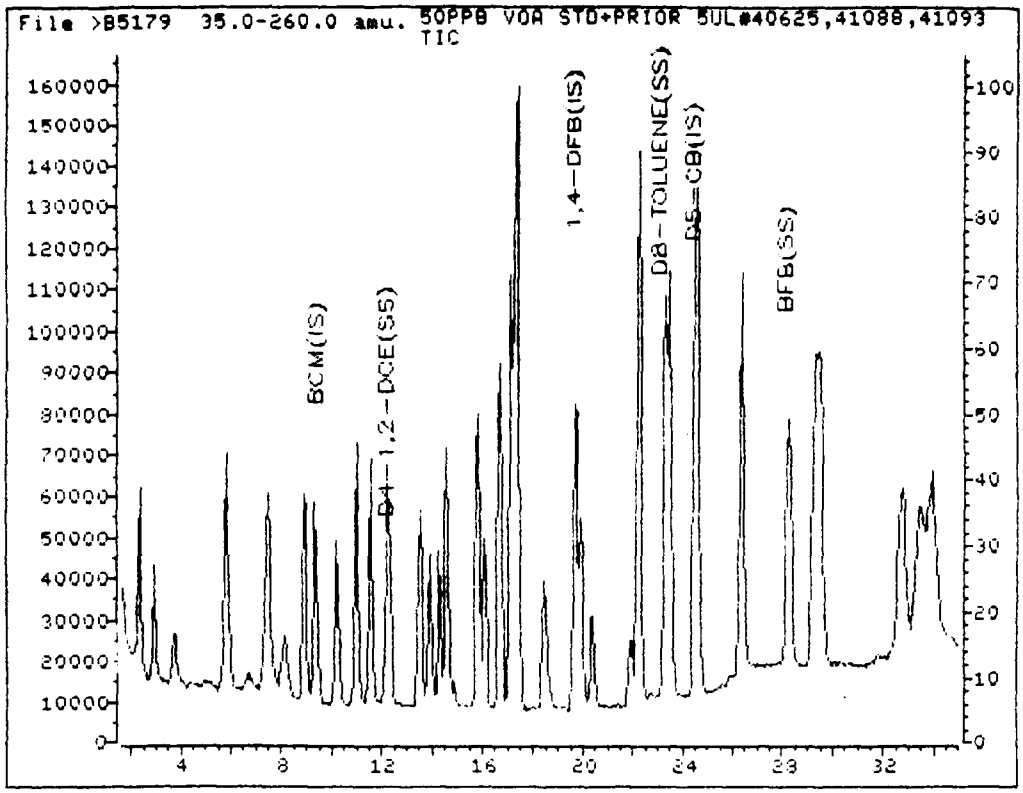
QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860923 00:03
Output File: ^P5148::AQ Injected at: 860922 23:08
Data File: >85148::BB Dilution Factor: 1.00
Name: 50PPB VOA&P.P. STD.
Misc: (5UL EA.#41088,41093,40625) IS,SS=50PPB(5UL#41036)

ID File: PPVID2::PS
Title: PRIORITY POLLUTANTS - METHOD 624
Last Calibration: 860923 00:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE(IS)	9.33	130	91848	50.00	ug/L	88
2)	CHLOROMETHANE	1.45	6	92626	50.00	ug/L	99
3)	BROMOMETHANE	2.39	18	168445	50.00	ug/L	98
4)	VINYL CHLORIDE	2.95	22	174203	50.00	ug/L	96
5)	CHLOROETHANE	3.76	40	86121	50.00	ug/L	98
6)	METHYLENE CHLORIDE	5.86	74	215866	50.00	ug/L	74
7)	ACROLEIN	6.62	82	10792	50.00	ug/L	90
8)	ACRYLONITRILE	7.29	92	36666	50.00	ug/L	97
9)	TRICHLOROFLUOROMETHANE	8.15	111	87474	50.00	ug/L	98
10)	1,1-DICHLOROETHENE	8.90	123	131879	50.00	ug/L	90
11)	1,1-DICHLOROETHANE	10.20	144	243353	50.00	ug/L	67
12)	TRANS-1,2-DICHLOROETHENE	11.00	157	156506	50.00	ug/L	88
13)	CHLOROFORM	11.56	166	261608	50.00	ug/L	93
)	D4-1,2-DICHLOROETHANE(SS)	12.24	177	116590	50.00	ug/L	100
15)	1,2-DICHLOROETHANE	12.36	179	126477	50.00	ug/L	89
16)	*1,4-DIFLUOROBENZENE(IS)	19.67	297	421602	50.00	ug/L	100
17)	1,1,1-TRICHLOROETHANE	13.54	198	165115	50.00	ug/L	94
18)	CARBON TETRACHLORIDE	13.97	205	179581	50.00	ug/L	95
19)	BROMODICHLOROMETHANE	14.59	215	216033	50.00	ug/L	96
20)	1,2-DICHLOROPROPANE	15.83	235	189190	50.00	ug/L	93
21)	TRANS-1,3-DICHLOROPROPENE	17.38	260	257170	50.00	ug/L	93
22)	TRICHLOROETHENE	16.70	249	190159	50.00	ug/L	99
23)	DIBROMOCHLOROMETHANE	17.32	259	212690	50.00	ug/L	94
24)	1,1,2-TRICHLOROETHANE	17.58	260	151172	50.00	ug/L	90
25)	BENZENE	17.13	256	546891	50.00	ug/L	91
26)	CIS-1,3-DICHLOROPROPENE	16.08	239	154598	50.00	ug/L	99
27)	2-CHLOROETHYL VINYL ETHER	18.43	277	104296	50.00	ug/L	94
28)	BROMOFORM	19.92	301	151732	50.00	ug/L	97
29)	*D5-CHLOROBENZENE(IS)	24.50	375	377888	50.00	ug/L	100
30)	TETRACHLOROETHENE	22.27	339	129540	50.00	ug/L	9
31)	1,1,2,2-TETRACHLOROETHANE	22.27	339	226220	50.00	ug/L	91
32)	D8-TOLUENE(SS)	23.53	356	462318	50.00	ug/L	99
33)	TOLUENE	23.51	359	303070	50.00	ug/L	91
34)	CHLOROBENZENE	24.63	372	350863	50.00	ug/L	[illegible]
35)	ETHYLBENZENE	26.42	406	173967	50.00	ug/L	97
36)	4-BROMOFLUOROBENZENE(SS)	28.78	436	237150	50.00	ug/L	86
37)	1,3-DICHLOROBENZENE	32.75	508	374949	50.00	ug/L	96
38)	1,2-DICHLOROBENZENE	33.43	519	312133	50.00	ug/L	99
)	1,4-DICHLOROBENZENE	33.86	526	330868	50.00	ug/L	100

* Compound is ISTD



MS data file header from : B5179

Sample: 50PPB VOA STD+PRIOR Operator: MIKE MS 9/24/86 8:56
Misc : SUL#40625,41088,41093 IS,SS=50PPB(SUL#41035)
Sys. #: 20 MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: VOAME2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 0 Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

2 2 0404
027-14

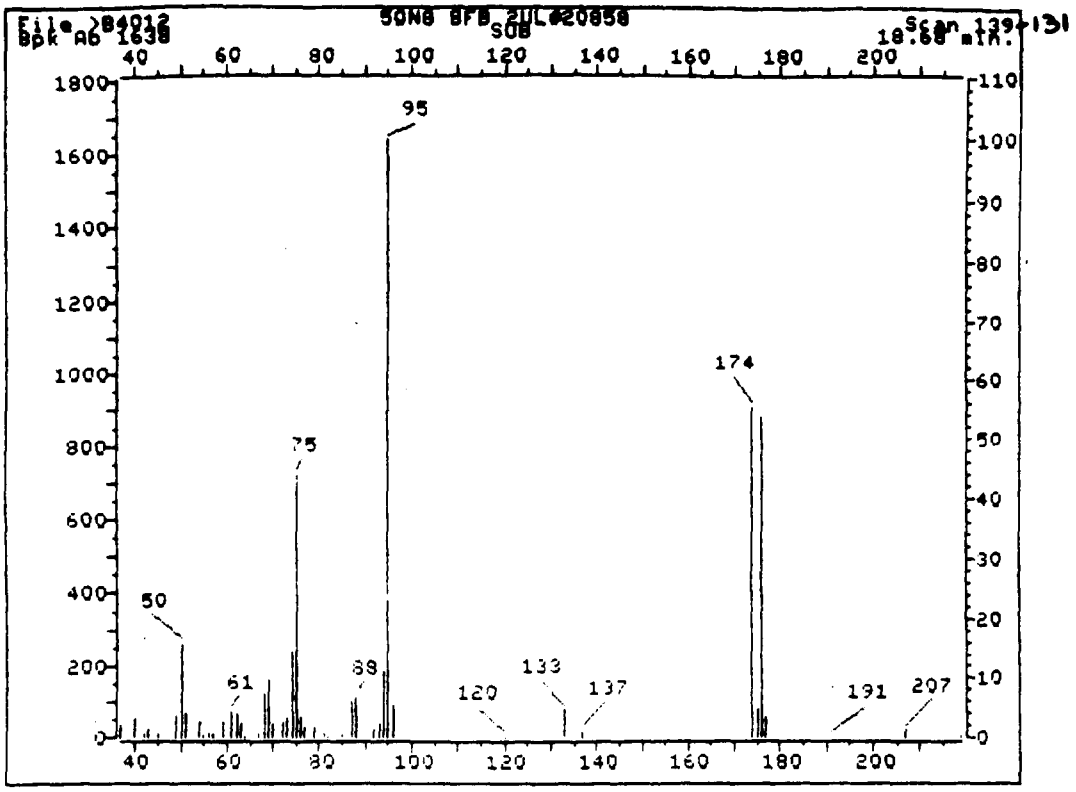
QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860924 12:57
Output File: ^P5179::AQ Injected at: 860924 08:56
Data File: >B5179::BB Dilution Factor: 1.00
Name: 50PPB VOA STD+PRIOR
Misc: 5UL#40625,41088,41093 IS,SS=50PPB(5UL#41036)

ID File: PPVID2::PS
Title: PRIORITY POLLUTANTS - METHOD 624
Last Calibration: 860924 10:44

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE(IS)	9.33	130	75922	50.00	ug/L	95
2)	CHLOROMETHANE	1.59	5	78769	50.00	ug/L	[illegible]
3)	BROMOMETHANE	2.33	17	144777	50.00	ug/L	99
4)	VINYL CHLORIDE	2.89	26	160458	50.00	ug/L	[illegible]
5)	CHLOROETHANE	3.70	39	84973	50.00	ug/L	97
6)	METHYLENE CHLORIDE	5.80	73	181856	50.00	ug/L	
7)	ACROLEIN	6.61	86	9659	50.00	ug/L	99
8)	ACRYLONITRILE	[illegible]	97	36418	50.00	ug/L	[illegible]
9)	TRICHLOROFLUOROMETHANE	8.15	111	76420	50.00	ug/L	99
10)	1,1-DICHLOROETHENE	8.90	123	120051	50.00	ug/L	[illegible]
11)	1,1-DICHLOROETHANE	10.20	144	227716	50.00	ug/L	67
12)	TRANS-1,2-DICHLOROETHENE	11.00	157	140568	50.00	ug/L	91
[illegible]	CHLOROFORM	11.56	166	249243	50.00	ug/L	94
[illegible]	D4-1,2-DICHLOROETHANE(SS)	12.18	176	105612	50.00	ug/L	1[illegible]
15)	1,2-DICHLOROETHANE	12.30	178	121743	50.00	ug/L	89
16)	*1,4-DIFLUOROBENZENE(IS)	19.67	297	362876	50.00	ug/L	100
17)	1,1,1-TRICHLOROETHANE	13.54	198	167085	50.00	ug/L	95
18)	CARBON TETRACHLORIDE	13.91	204	129417	50.00	ug/L	[illegible]
19)	BROMODICHLOROMETHANE	14.59	215	231637	50.00	ug/L	97
20)	1,2-DICHLOROPROPANE	15.83	235	187987	50.00	ug/L	[illegible]
21)	TRANS-1,3-DICHLOROPROPENE	17.38	260	232236	50.00	ug/L	94
22)	TRICHLOROETHENE	16.70	249	172007	50.00	ug/L	[illegible]
23)	DIBROMOCHLOROMETHANE	17.26	258	207178	50.00	ug/L	93
24)	1,1,2-TRICHLOROETHANE	17.38	60	135523	50.00	ug/L	[illegible]
25)	BENZENE	17.13	256	504531	50.00	ug/L	91
26)	CIS-1,3-DICHLOROPROPENE	16.08	239	167853	50.00	ug/L	[illegible]
27)	2-CHLOROETHYL VINYL ETHER	18.43	277	85823	50.00	ug/L	[illegible]
28)	BROMOFORM	19.92	301	135522	50.00	ug/L	[illegible]
29)	*D5-CHLOROBENZENE(IS)	24.50	375	312384	50.00	ug/L	100
30)	TETRACHLOROETHENE	22.27	339	123484	50.00	ug/L	[illegible]
31)	1,1,2,2-TETRACHLOROETHANE	22.27	339	214403	50.00	ug/L	94
32)	D8-TOLUENE(SS)	23.33	356	394838	50.00	ug/L	[illegible]
33)	TOLUENE	23.51	359	279895	50.00	ug/L	[illegible]
34)	CHLOROBENZENE	24.63	377	312849	50.00	ug/L	[illegible]
35)	ETHYLBENZENE	26.36	405	173604	50.00	ug/L	94
36)	4-BROMOFLUOROBENZENE(SS)	28.78	436	187012	50.00	ug/L	[illegible]
37)	1,3-DICHLOROBENZENE	32.[illegible]	508	253592	50.00	ug/L	94
38)	1,2-DICHLOROBENZENE	33.43	519	271062	50.00	ug/L	[illegible]
[illegible]	1,4-DICHLOROBENZENE	33.86	[illegible]	229550	50.00	ug/L	10[illegible]

* Compound is ISTD



MS data file header from : B4012

Sample: 50NG BFB 2UL#20858 Operator: SUSAN MS 6/11/86 7:19
Misc :
Sys. #: 2B MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: BFB2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 50 Transfer line temp. : 0

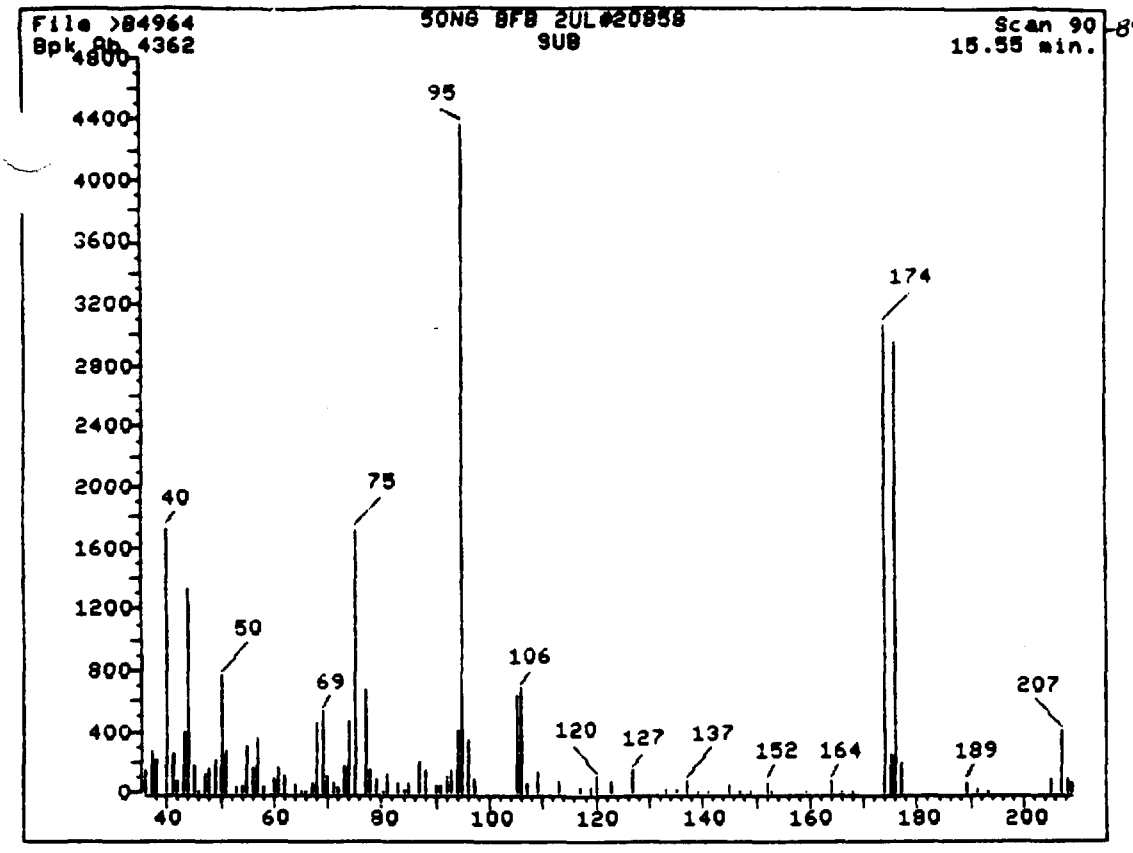
Chromatographic temperatures :	50.	60.	0.	0.	0.
Chromatographic times, min. :	1.0	13.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	0.0	0.0	0.0	0.0

2 2 0406
034-01

>B4012 50NG BFB 2UL#20858
139 SUB NRM

File: >B4012 Scan #: 139 131 Retn. time: 18.68

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.95	2.14	56.05	.73	70.00	2.32	85.00	.73	120.05	.37
39.95	3.48	57.05	.92	72.00	2.69	87.00	6.29	132.95	4.76
42.05	.67	59.05	2.75	73.00	3.60	88.00	6.84	137.05	1.10
43.05	1.34	61.05	4.58	74.00	14.53	92.00	1.40	173.90	55.56
45.05	.73	62.05	4.15	75.00	44.14	93.00	2.56	175.00	4.70
49.05	3.79	63.05	2.32	76.00	3.30	94.00	11.23	175.90	53.85
50.05	15.87	64.05	.12	77.00	1.65	95.00	100.00	177.00	3.30
51.05	4.27	67.00	.61	79.00	1.77	96.00	5.62	191.15	.24
54.05	2.81	68.00	7.63	81.00	.92	97.15	.24	206.95	1.34
55.05	.37	69.00	9.71	82.00	.18	119.05	.24	219.05	.43



MS data file header from : >B4964

Sample: 50NG BFB 2UL#20858 Operator: MIKE MS 9/03/86 15:06
Misc :
Sys. #: 2B MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: BFB2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 50 Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

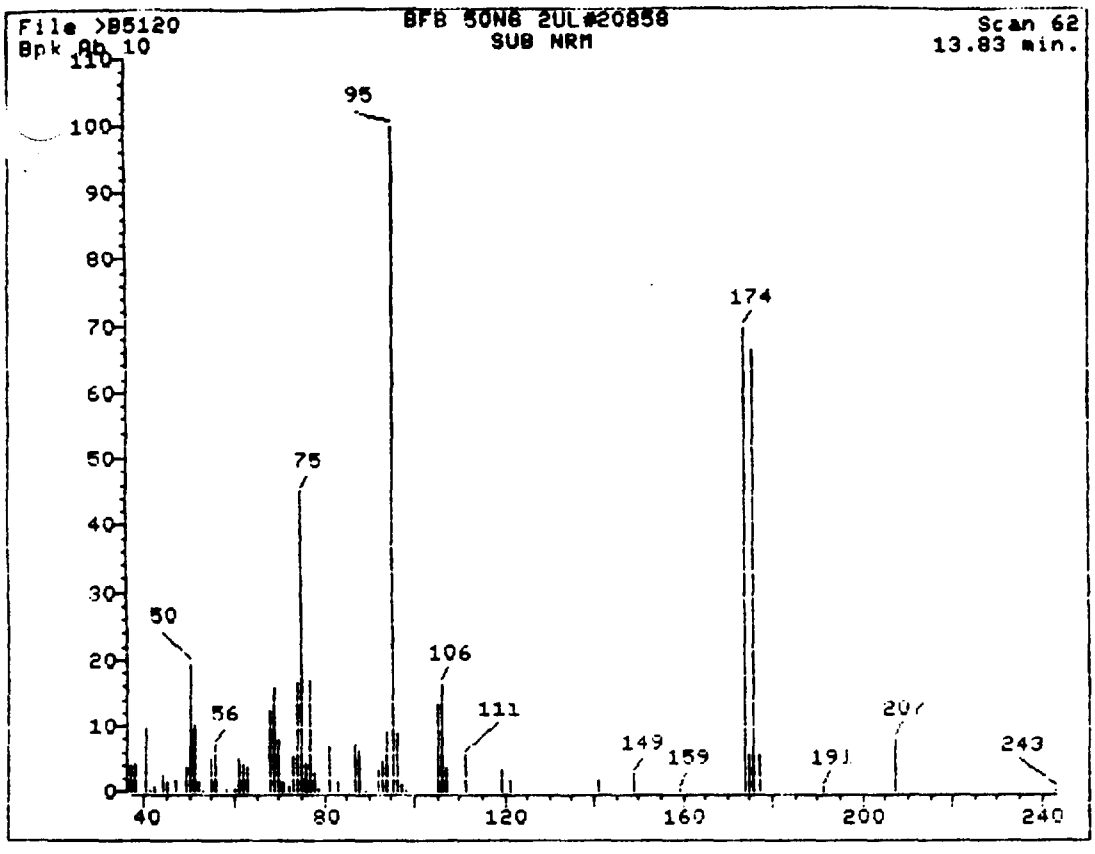
D3 - 2

>B4964 50NG BFB 2UL#20858
90 SUB NRM

File: >B4964 Scan #: 90 84 Retn. time: 15.55

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.05	3.37	56.05	3.76	77.05	15.50	105.05	14.56	15[illegible].05	1.42
37.05	6.21	57.05	8.21	78.05	3.23	106.05	15.64	15[illegible].05	.05
38.05	4.88	58.05	.78	79.05	1.93	107.05	1.22	15[illegible].15	.07
39.95	39.59	60.05	1.93	80.05	.21	109.05	2.98	16[illegible].00	1.54
41.05	5.78	61.05	3.76	81.05	2.59	113.05	1.77	16[illegible].00	.05
42.05	1.77	62.05	2.41	83.05	1.24	117.05	.60	16[illegible].15	.11
43.05	9.12	64.05	1.01	84.05	.48	119.05	.83	17[illegible].00	0.36
44.05	30.35	65.05	.09	85.05	1.33	120.05	2.18	17[illegible].15	5.46
45.05	3.83	66.05	.23	86.95	4.54	123.05	1.81	17[illegible].00	7.54
45.95	.23	67.05	1.33	88.05	3.16	127.05	3.21	17[illegible].15	4.33
47.05	2.64	68.05	10.22	89.95	1.12	133.05	.30	18[illegible].15	1.51
47.95	3.67	69.05	12.10	91.05	1.17	135.05	.25	19[illegible].15	.30
49.05	4.81	70.05	2.45	92.05	2.48	137.05	1.65	19[illegible].15	.16
50.05	17.70	71.05	1.26	93.05	3.37	139.05	.02	20[illegible].15	2.02
51.05	6.17	72.05	.73	94.05	9.38	141.05	.18	20[illegible].15	9.03
53.05	.66	73.05	3.97	95.05	100.00	145.05	1.08	20[illegible].15	2.06
54.05	.94	74.05	10.55	96.05	7.61	147.05	.23	20[illegible].15	1.33
55.05	6.81	75.05	39.57	97.05	1.93	149.05	.11		

-5F 033-03



MS data file header from : >B5120

Sample: BFB 50NG 2UL#20858 Operator: MIKE MS 9/21/86 13:19
Misc :
Sys. #: 2B MS model: B/ SW/HW rev.: CA ALS # : 0
Method file: BFB2 Tuning file: DUA'U2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 0 Transfer line temp. : 0

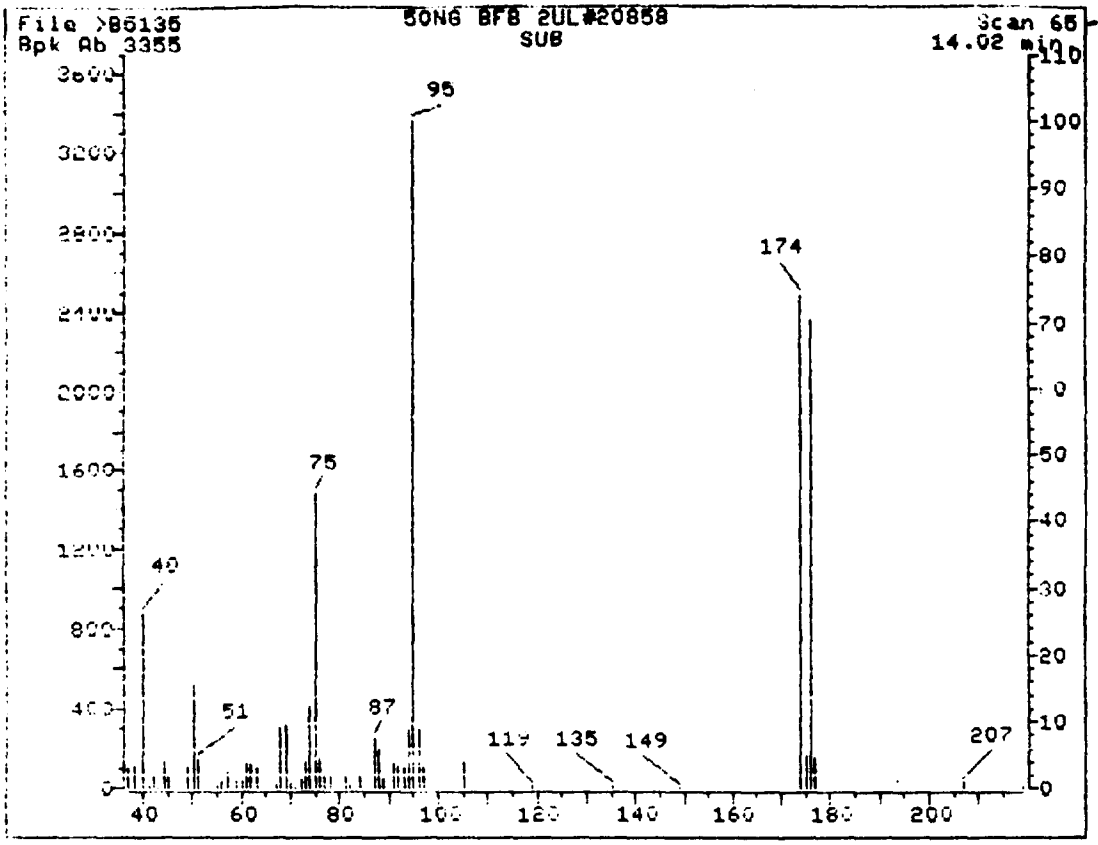
Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

034-03

>B5120 BFB 50NG 2UL#20858
62 SUB NRM

File: >B5120 Scan #: 62 -58 Retn. time: 13.83

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.05	4.02	53.00	.03	72.00	.83	88.95	.17	119.05	3.17
38.05	4.12	55.00	4.92	73.00	5.12	91.95	3.23	121.05	1.76
40.05	9.64	56.00	7.12	74.00	16.26	92.95	4.49	141.00	1.76
41.05	.13	58.00	.53	75.00	44.83	93.95	9.08	149.00	2.53
42.05	.57	60.00	.47	76.00	4.36	95.05	100.00	159.05	.27
44.05	2.23	61.00	4.76	77.00	16.76	96.05	8.88	173.95	69.60
45.05	1.43	62.00	4.06	78.00	2.59	97.05	.96	174.95	5.[illegible]
47.05	1.90	63.00	3.56	79.00	.43	98.05	.17	175.95	65.35
49.05	3.66	68.00	12.37	81.00	6.65	105.05	13.10	176.95	5.85
50.05	19.35	69.00	15.80	83.15	1.33	106.05	16.23	191.05	.57
51.05	10.11	70.00	7.72	84.00	7.12	107.05	3.49	207.00	7.[illegible]
52.05	1.43	71.00	1.23	87.95	6.29	111.05	5.52	243.05	.10



-62 033-04

MS data file header from : >B5135

Sample: 50N6 BFB 2UL#20858 Operator: MIKE MS 9/22/86 9:27
Misc :
Sys. #: 2 MS model: 87 SW/HW rev.: CA ALS # : 0
Method File: BFB2 Tuning File: VUA1H2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 0 Transfer line temp. : 0

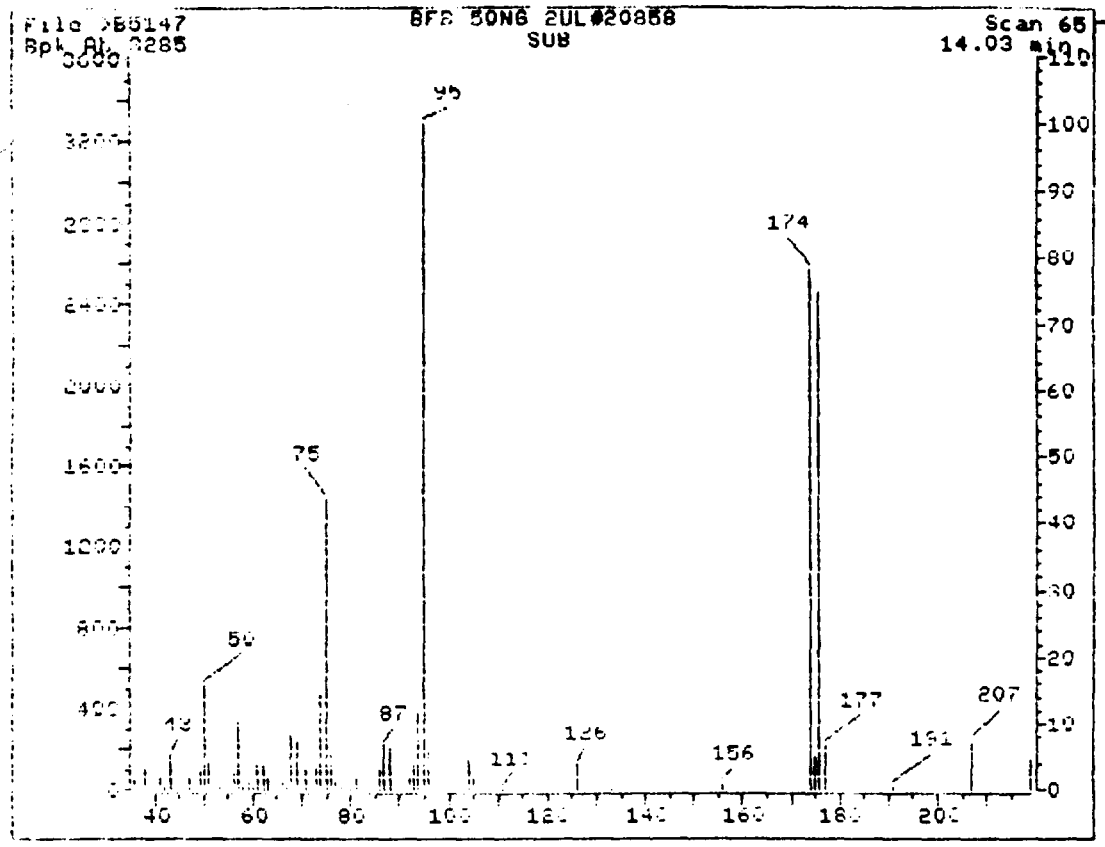
Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

>B5135 50NG BFB 2UL#20858
65 SUB NRM

File: >B5135 Scan #: 65-67 Retn. time: 14.02

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.05	2.95	55.15	.25	70.00	.72	84.00	1.67	105.05	3.90
38.05	3.13	56.00	1.10	71.00	.06	87.00	7.60	119.05	.36
39.95	26.11	57.15	2.27	72.00	1.22	87.95	5.81	135.00	.36
41.05	.27	59.00	1.19	73.00	3.96	88.95	1.31	149.00	.06
42.05	1.94	60.00	1.10	74.00	12.37	90.95	3.76	173.95	24.13
43.05	.12	61.00	3.67	75.00	44.35	91.95	3.40	174.95	4.83
44.05	4.41	62.00	3.52	76.00	4.53	92.95	2.83	175.95	20.49
45.05	1.55	63.00	2.86	77.00	1.67	93.95	8.67	176.95	4.41
49.05	3.19	67.00	.60	78.00	1.76	94.95	100.00	207.00	.98
50.05	15.50	68.00	8.94	81.00	1.67	95.95	8.76	219.00	.36
51.05	4.35	69.00	9.51	82.00	.39	97.05	3.10		

-62 033-05



MS data file header from : >B5147

Sample: BFB 50NG 2UL#20858 Operator: MIKE MS 9/22/86 22:16
Misc :
Sys. #: 23 MS model: 8[illegible] SW/HW rev.: CA ALS # : 0
Method file: [illegible] Tuning file: [illegible] No. of extra records: 1
Source temp.: [illegible] Analyzer temp.: 0 Transfer line temp. : 0

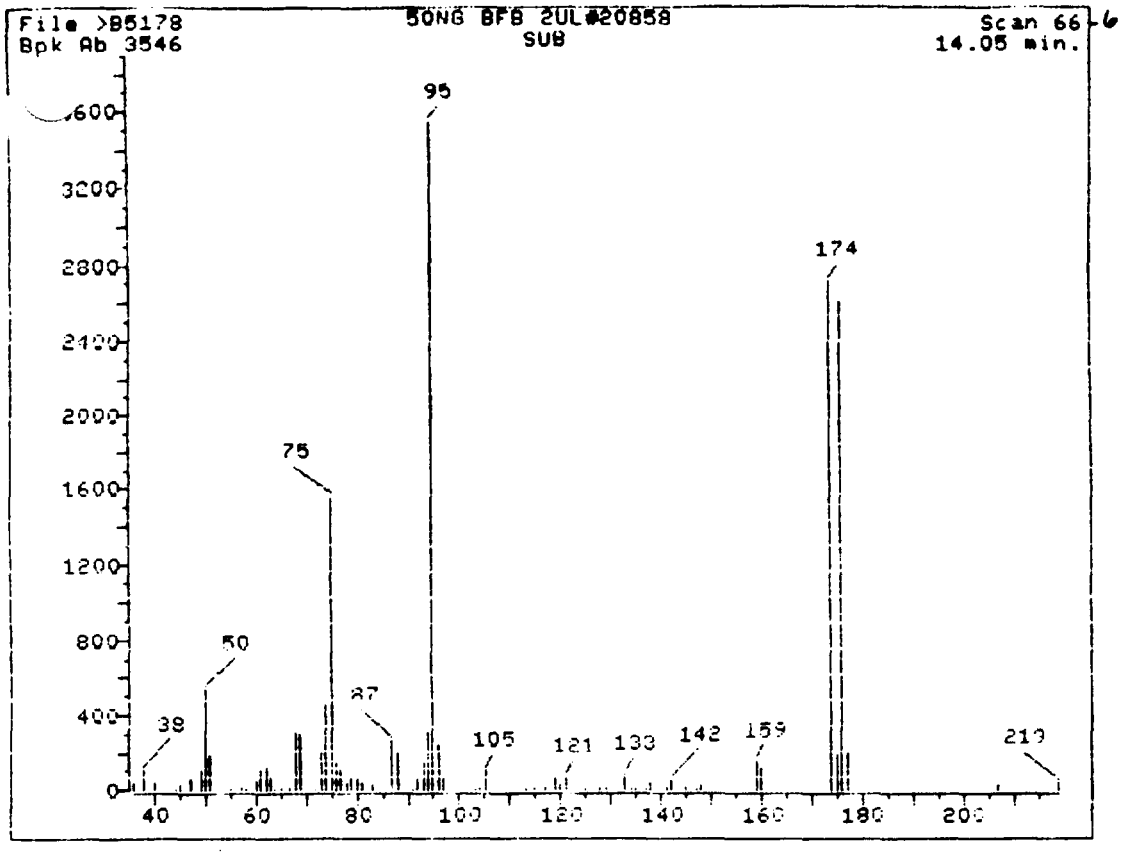
Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

>B5147 BHB 50NG 2UL#20858
65 SUM NRM

File: >B5147 Scan #: 65 Retn. time: 14.05

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
55.05	1.49	58.00	.40	71.00	3.20	87.00	6.67	111.05	.15
58.05	2.92	59.00	1.16	72.00	.12	87.95	6.21	121.05	.03
41.05	1.98	60.00	.52	73.00	3.44	91.95	1.95	126.15	3.81
42.05	.49	61.00	3.53	74.00	14.03	92.95	4.69	133.00	.03
43.05	5.18	62.00	3.59	75.00	43.56	93.95	11.75	156.15	.23
45.05	.52	63.00	1.70	76.00	5.18	94.95	100.00	173.95	78.36
47.05	1.92	64.00	.06	77.00	.94	95.95	5.42	174.95	4.75
49.05	7.77	65.00	.37	78.00	.67	98.05	.27	175.95	74.92
50.05	15.65	66.00	1.19	79.00	.94	99.05	.37	176.95	6.51
51.05	4.02	67.00	.37	80.00	.49	104.05	4.54	191.05	.46
53.00	.58	68.00	8.01	81.00	1.52	105.05	1.52	207.00	7.18
56.00	2.47	69.00	6.97	84.15	.64	110.05	.12	219.15	4.69
57.00	10.14	70.00	.43	86.15	2.92				

033-06



M data file header from : >B5178

mple: 50NG BFB 2UL#20858 Operator: MIKE MS 9/24/86 8:14
isc :
Sys. #: 2B MS model: 8 SW/HW rev.: CA ALS # : 0
Method file: BFB2 Tuning file: [illegible] No. of extra records: [illegible]
Source temp.: 200 Analyzer temp.: 0 Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

034-06

:
>B5178 50NG BFB 2UL#20858
66 SUB NRM

File: >B5178 Scan #: 66-61 Retn. time: 14.05

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
35.95	1.16	63.00	2.03	80.00	1.66	105.05	2.88	138.00	.90
38.05	2.90	64.00	.03	81.00	1.13	113.05	.11	141.00	.42
39.95	1.10	65.00	.51	83.00	.76	115.05	.31	142.00	1.[illegible]
44.05	.08	67.00	.39	87.00	7.42	117.05	.42	145.00	.51
45.05	.59	68.00	8.83	87.95	5.64	119.05	1.92	147.00	.[illegible]
47.05	1.78	69.00	8.52	90.95	.23	120.05	.65	148.00	.76
49.05	3.02	72.00	.70	91.95	1.55	121.05	1.95	159.05	4.[illegible]
50.05	15.00	73.00	5.39	92.95	4.37	125.00	.23	160.05	5.33
51.05	5.27	74.00	12.75	93.95	8.69	128.00	.42	173.95	76.[illegible]
55.00	.06	75.00	43.77	94.95	100.00	129.00	.45	174.95	5.30
57.00	.42	76.00	4.57	95.95	6.80	133.00	2.26	175.95	72.[illegible]
58.00	.06	77.00	3.02	97.05	1.72	134.00	.20	176.95	5.47
60.00	1.35	78.00	.90	102.95	.14	135.00	.03	216.90	.[illegible]
61.00	3.36	79.00	1.78	103.95	.31	137.00	.20	219.00	.96
62.00	3.36								

2 2 0417

Sample Number
M-BIKI (L/W)

037-01

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Clayton Environmental
Client: Envirosponse
Lab Sample ID No: B5122
QC Report No: NA
Sample Matrix: water
Contract No: NA
Data Release Authorized By:
Date Sample Received: 9/18/86

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9/21/86

Date Analyzed: 9/21/86

Conc/Dil Factor 1 pH 6.8

Percent Moisture: (Not Decanted) NA

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10 U
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	10 U
75-00-3	Chloroethane	10 U
75-09-2	Methylene Chloride	5 U
75-69-4	Trichlorofluoromethane	1 N
75-35-4	1, 1-Dichloroethene	5 U
75-34-3	1, 1-Dichloroethane	5 U
156-60-5	Trans-1, 2-Dichloroethene	5 U
67-66-3	Chloroform	5 U
107-06-2	1, 2-Dichloroethane	5 U
71-55-6	1, 1, 1-Trichloroethane	5 U
56-23-5	Carbon Tetrachloride	5 U
75-27-4	Bromodichloromethane	5 U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	7 N
10061-02-6	Trans-1, 3-Dichloropropene	5 U
79-01-6	Trichloroethene	5 U
124-48-1	Dibromochloromethane	5 U
79-00-5	1, 1, 2-Trichloroethane	5 U
71-43-2	Benzene	5 U
10061-01-5	cis-1, 3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U
75-25-2	Bromoform	5 U
127-18-4	Tetrachloroethene	5 U
79-34-5	1, 1, 2, 2-Tetrachloroethane	5 U
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
541-73-1	1, 3-Dichlorobenzene	15 N
106-46-7	1, 4-Dichlorobenzene	15 N
95-50-1	1, 2-Dichlorobenzene	7 N

✓ MM ✓

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

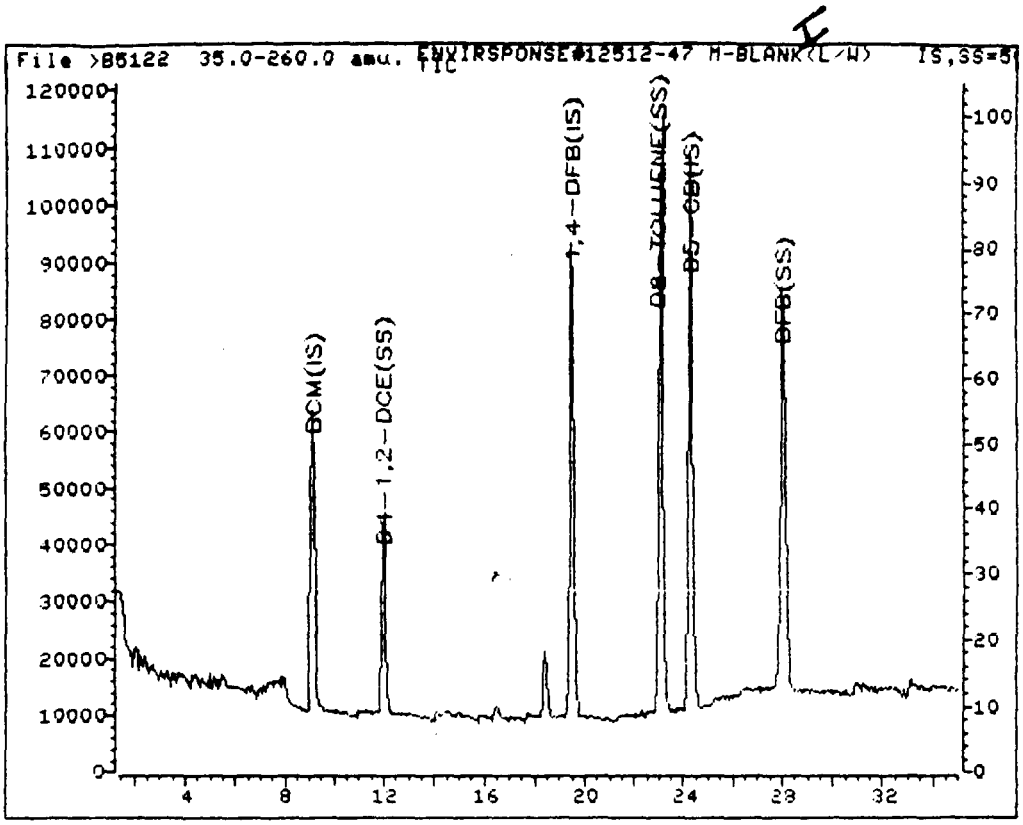
M Matrix spike compound

N Instrument limit of detection

A Indicates a value less than the dilution corrected limit of detection but greater than the CRDL

441

038-01



MS data file header from : >B5122

Sample: ENVIRSPONSE#12512-47 Operator: MIKE MS 9/21/86 15:25
Misc : M-BLANK(L/W) IS,SS=50PPB(SUL#41036)
Sys. #: 28 MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: VOAME2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 0 Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860921 16:08
Output File: ^P5122::AQ Injected at: 860921 15:25
Data File: >B5122::BB Dilution Factor: 1.000
Name: ENVIRSPONSE#12512-47
Misc: M-BLANK(L/W) IS,SS=50PPB(5UL#41036)

ID File: PPVID2::PS
Title: PRIORITY POLLUTANTS - METHOD 624
Last Calibration: 860921 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE(IS)	9.14	127	80552	50.00	ug/L	94
14)	D4-1,2-DICHLOROETHANE(SS)	12.05	174	107901	50.36	ug/L	100
16)	*1,4-DIFLUOROBENZENE(IS)	19.48	294	395736	50.00	ug/L	100
29)	*D5-CHLOROBENZENE(IS)	24.31	372	352131	50.00	ug/L	100
32)	D8-TOLUENE(SS)	23.14	353	443600	49.19	ug/L	98
36)	4-BROMOFLUOROBENZENE(SS)	28.03	432	224974	50.26	ug/L	91

* Compound is ISTD

Sample Number
M-Blk I(oil).

Organics Analysis Data Sheet
(Page 1)

037-04

Laboratory Name: CLAYTON ENVIRONMENTAL CONSULTANTS, INC. client: Case No: Envirresponse

Lab Sample ID No: B 5180 QC Report No: NA

Sample Matrix: Oil Contract No: NA

Data Release Authorized By: [signature] Date Sample Received: 9-18-86

Volatile Compounds

Concentration: Low (Medium) (Circle One)

Date Extracted/Prepared: 9-24-86

Date Analyzed: 9/24/86

Conc/(Dil Factor): 1 pH NA

Percent Moisture: (Not Decanted) NA

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	1000 U
74-83-9	Bromomethane	1000 U
75-01-4	Vinyl Chloride	1000 U
75-00-3	Chloroethane	1000 U
75-09-2	Methylene Chloride	440 J
75-69-4	Trichlorofluoromethane	100 N
75-35-4	1, 1-Dichloroethene	500 U
75-34-3	1, 1-Dichloroethane	500 U
156-60-5	Trans-1, 2-Dichloroethene	500 U
67-66-3	Chloroform	500 U
107-06-2	1, 2-Dichloroethane	500 U
71-55-6	1, 1, 1-Trichloroethane	500 U
56-23-5	Carbon Tetrachloride	500 U
75-27-4	Bromodichloromethane	500 U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	700 N
10061-02-6	Trans-1, 3-Dichloropropene	500 U
79-01-6	Trichloroethene	500 U
124-48-1	Dibromochloromethane	500 U
79-00-5	1, 1, 2-Trichloroethane	500 U
71-43-2	Benzene	500 U
10061-01-5	cis-1, 3-Dichloropropene	500 U
110-75-8	2-Chloroethylvinylether	1000 U
75-25-2	Bromoform	500 U
127-18-4	Tetrachloroethene	500 U
79-34-5	1, 1, 2, 2-Tetrachloroethane	160 J
108-88-3	Toluene	500 U
108-90-7	Chlorobenzene	500 U
100-41-4	Ethylbenzene	84 J
541-73-1	1, 3-Dichlorobenzene	1500 N
106-46-7	1, 4-Dichlorobenzene	1500 N
95-50-1	1, 2-Dichlorobenzene	700 N

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value — If the result is a value greater than or equal to the detection limit, report the value

U — Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J — Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J

C — This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

B — This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action

Other — Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

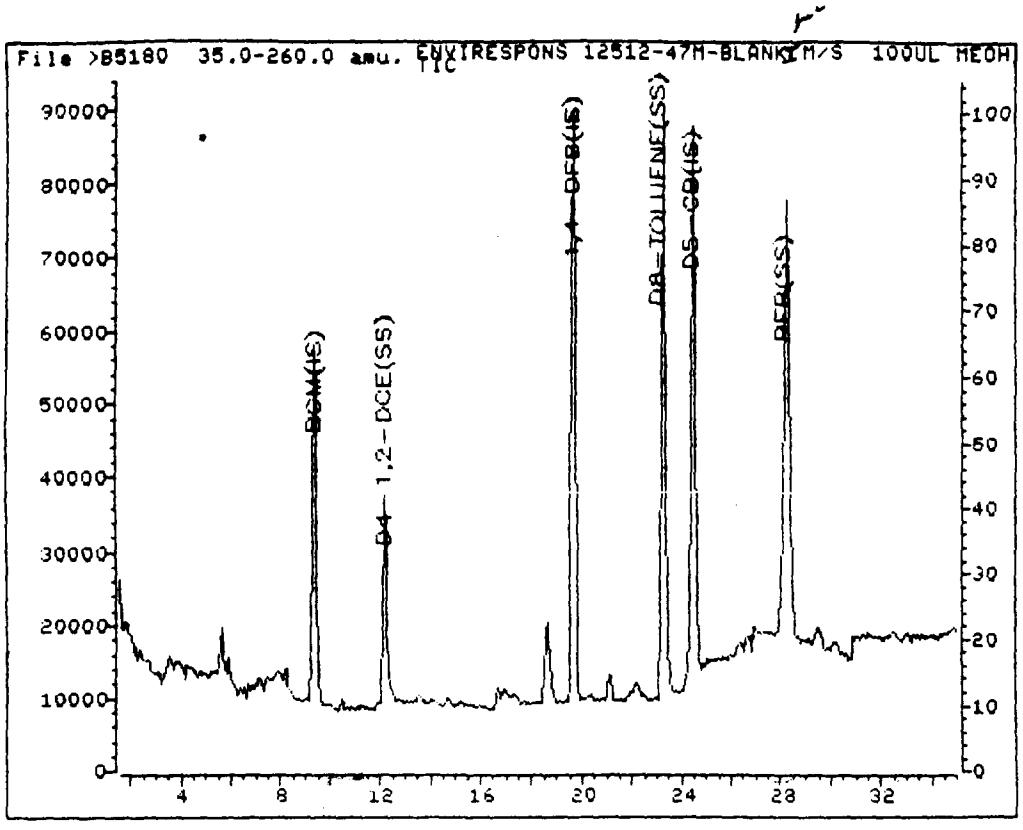
N — Matrix spike compound

N — Instrument limit of detection

A — Indicates a value less than the dilution corrected limit of detection but greater than the CRDL

2 2 0421

038-03



MS data file header from : >B5180

Sample: ENVIRESPONS 12512-47 Operator: MIKE MS 9/24/86 11:00
Misc : M-BLANK M/S 100UL MEOH IS,SS=50PPB(SUL#41036)
Sys. #: 2 MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: VOAME2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 0 Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

039-03

QUANT REPORT

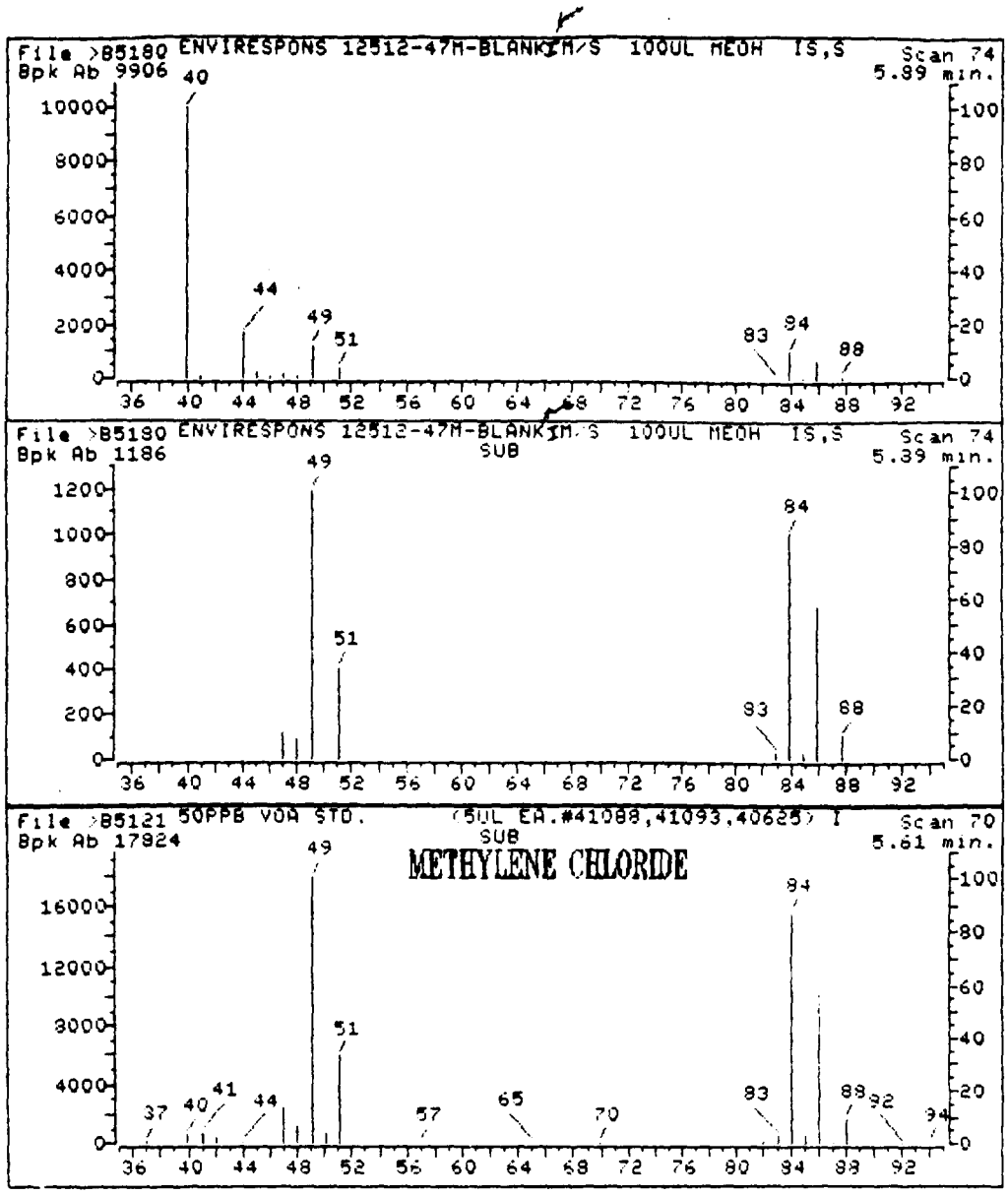
Operator ID: MIKE Quant Rev: 4 Quant Time: 860925 09:59
Output File: ^B5180::AQ Injected at: 860924 11:00
Data File: >B5180::BB Dilution Factor: 125.000
Name: ENVIRESPONS 12512-47
Misc: M-BLANK$M/S, 100UL MEOH IS,SS=50PPB(SUL#41036)

ID File: PPSID2::AA
Title: PRIORITY POLLUTANTS (SOILS)
Last Calibration: 860925 09:31

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE(IS)	9.36	130	74740	50.00	ug/Kg	94
6)	METHYLENE CHLORIDE	5.89	74	12508	436.67	ug/Kg	76
14)	D4-1,2-DICHLOROETHANE(SS)-	12.21	176	89831	5400.17	ug/Kg	100
16)	*1,4-DIFLUOROBENZENE(IS)	19.70	297	362562	50.00	ug/Kg	100
29)	*D5-CHLOROBENZENE(IS)	24.47	374	295838	50.00	ug/Kg	100
31)	1,1,2,2-TETRACHLOROETHANE	22.24	338	5079	156.34	ug/Kg	78
32)	D8-TOLUENE(SS)-	23.29	355	348819	5830.37	ug/Kg	99
35)	ETHYLBENZENE	26.39	405	2093	84.43	ug/Kg	98
36)	4-BROMOFLUOROBENZENE(SS)-	28.31	436	189870	6675.43	ug/Kg	98

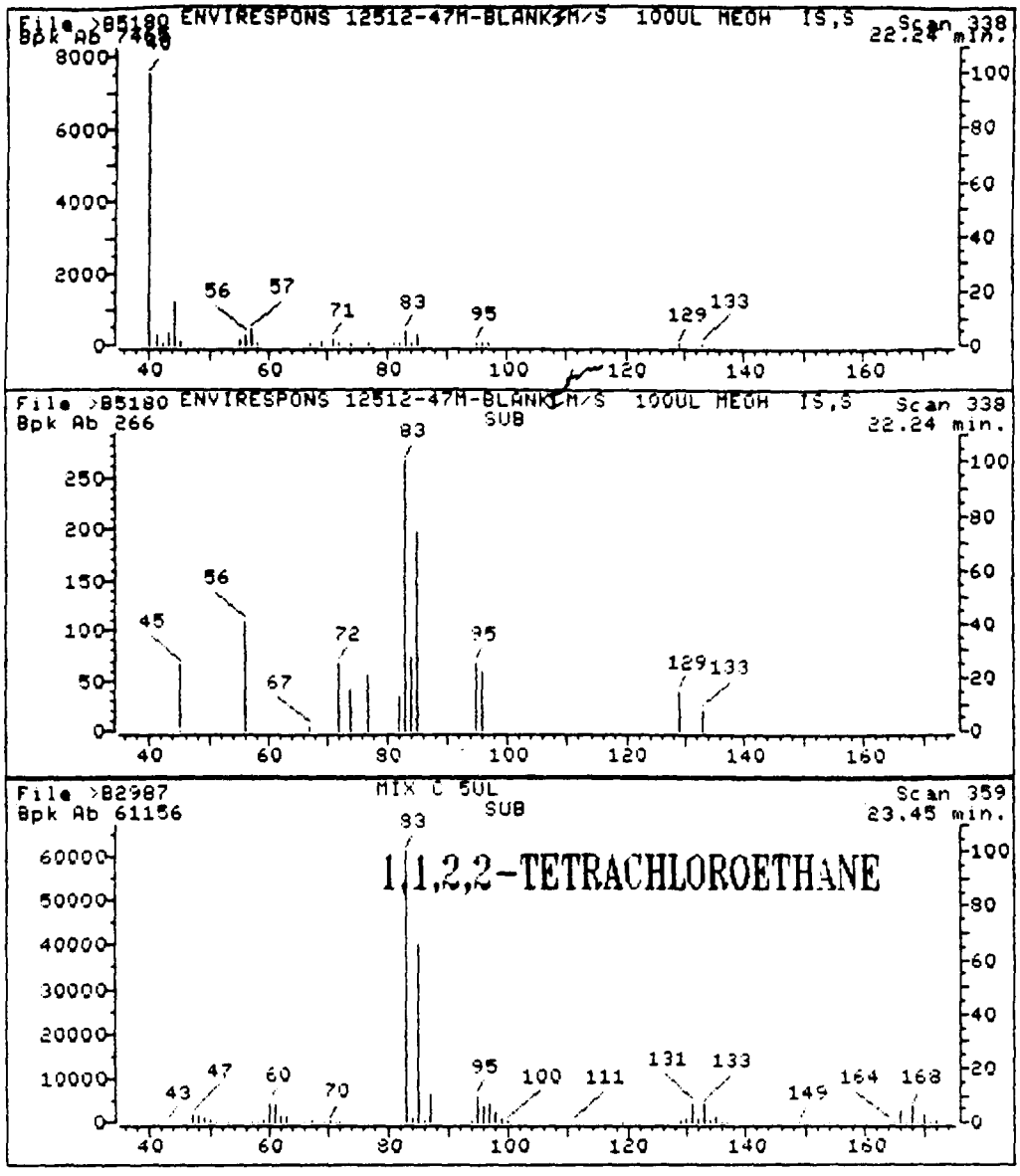
* Compound is ISTD

040-02


File >B5180 ENVIRESPONS 12512-47M-BLANK M/S 100UL MEOH IS,S
Scan 74
5.89 min.
Bpk Ab 9906
File >B5180 ENVIRESPONS 12512-47M-BLANK M/S 100UL MEOH IS,S
SUB
Scan 74
5.89 min.
Bpk Ab 1186
File >B5121 50PPB VOA STD. (5UL EA.#41088,41093,40625) I
SUB
Scan 70
5.61 min.
Bpk Ab 17924
METHYLENE CHLORIDE

/CP1

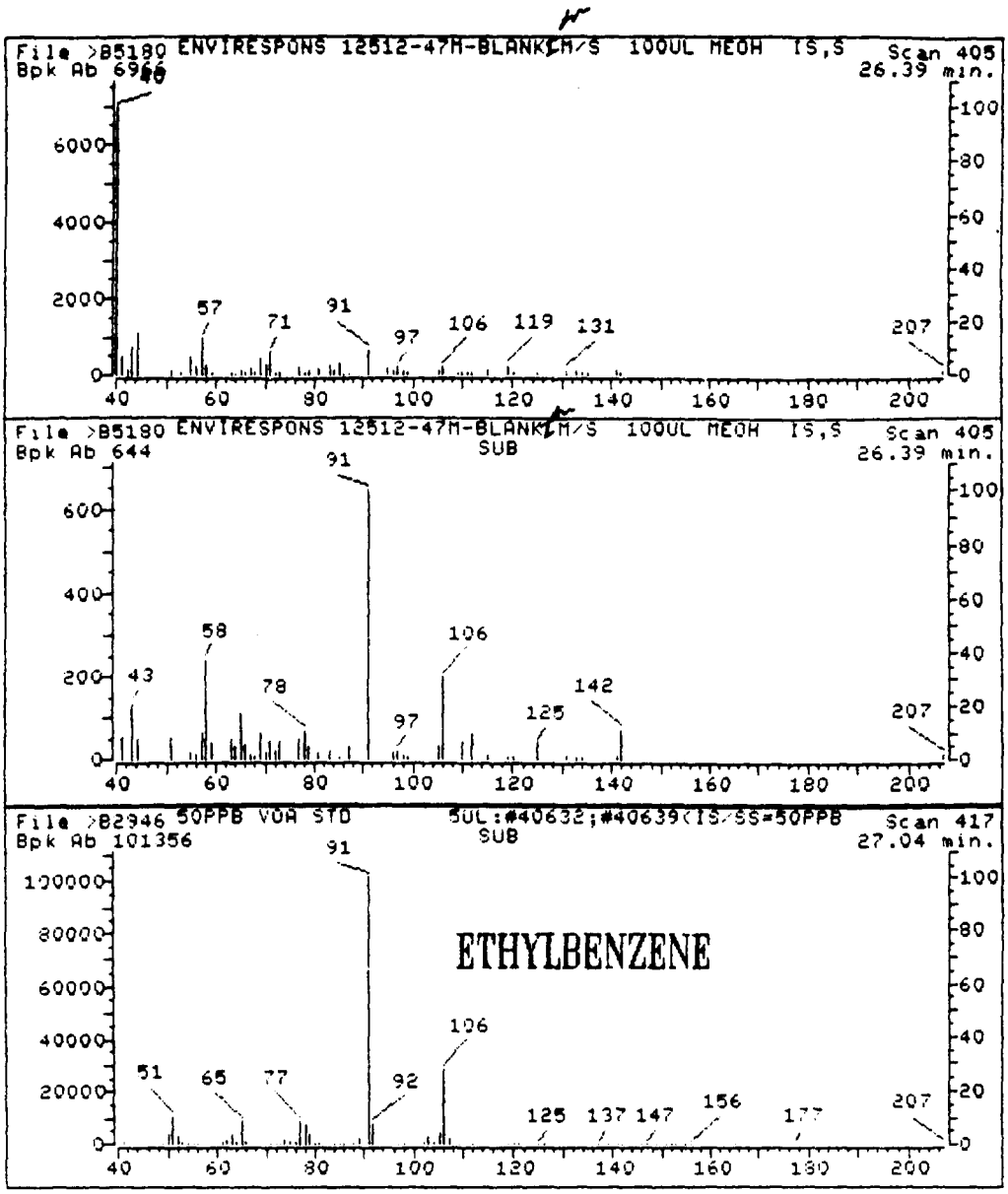
040-03



MANY EXTRANEOUS IONS PRESENT

87

040-04



MANY EXTRANEOUS IONS PRESENT

2 2 0426

Sample Number
M-Blk II (L/W)

037-07

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Clayton Environmental
Client: ~~Case No:~~ Enviresponse
Lab Sample ID No: B 5137
QC Report No: NA
Sample Matrix: water
Contract No: NA
Data Release Authorized By: [signature]
Date Sample Received: 9-18-86

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 9-22-86
Date Analyzed: 9-22-86
Conc/Dil Factor: 1 pH NA
Percent Moisture: (Not Decanted) _____

CAS Number		ug/l or ug/Kg (Circle One)
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	4 J
75-69-4	Trichlorofluoromethane	1 N
75-35-4	1, 1-Dichloroethene	5 U
75-34-3	1, 1-Dichloroethane	5 U
156-60-5	Trans-1, 2-Dichloroethene	5 U
67-66-3	Chloroform	5 U
107-06-2	1, 2-Dichloroethane	5 U
71-55-6	1, 1, 1-Trichloroethane	5 U
56-23-5	Carbon Tetrachloride	5 U
75-27-4	Bromodichloromethane	5 U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	7 N
10061-02-6	Trans-1, 3-Dichloropropene	5 U
79-01-6	Trichloroethene	5 U
124-48-1	Dibromochloromethane	5 U
79-00-5	1, 1, 2-Trichloroethane	5 U
71-43-2	Benzene	5 U
10061-01-5	cis-1, 3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U
75-25-2	Bromoform	5 U
127-18-4	Tetrachloroethene	5 U
79-34-5	1, 1, 2, 2-Tetrachloroethane	1 J
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
541-73-1	1, 3-Dichlorobenzene	15 N
106-46-7	1, 4-Dichlorobenzene	15 N
95-50-1	1, 2-Dichlorobenzene	7 N

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

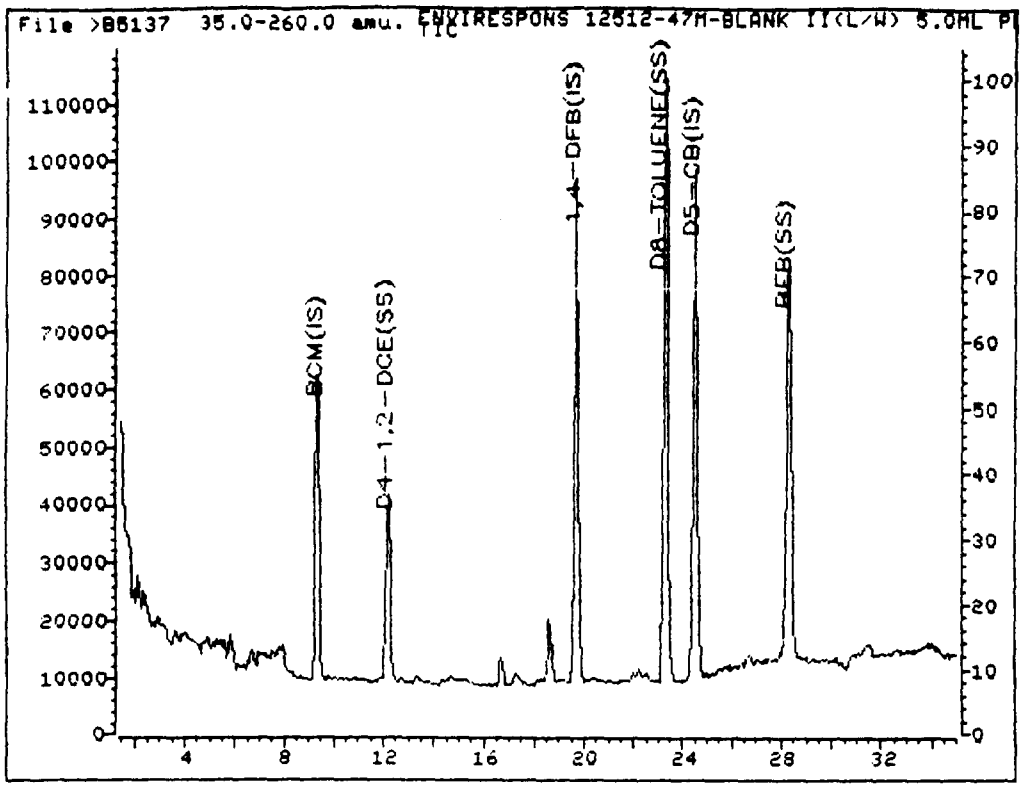
Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

M Matrix spike compound

N Instrument limit of detection

463

X Indicates a value less than the dilution corrected limit of detection but greater than the CRDL



MS data file header from : >B5137

Sample: ENVIRESPONS 12512-47 Operator: MIKE MS 9/22/86 11:22
Misc : M-BLANK II(L/W) 5.0ML PRGD IS,SS=50PPB(SUL#41036)
Sys. #: 2B MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: VOAME2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 0 Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

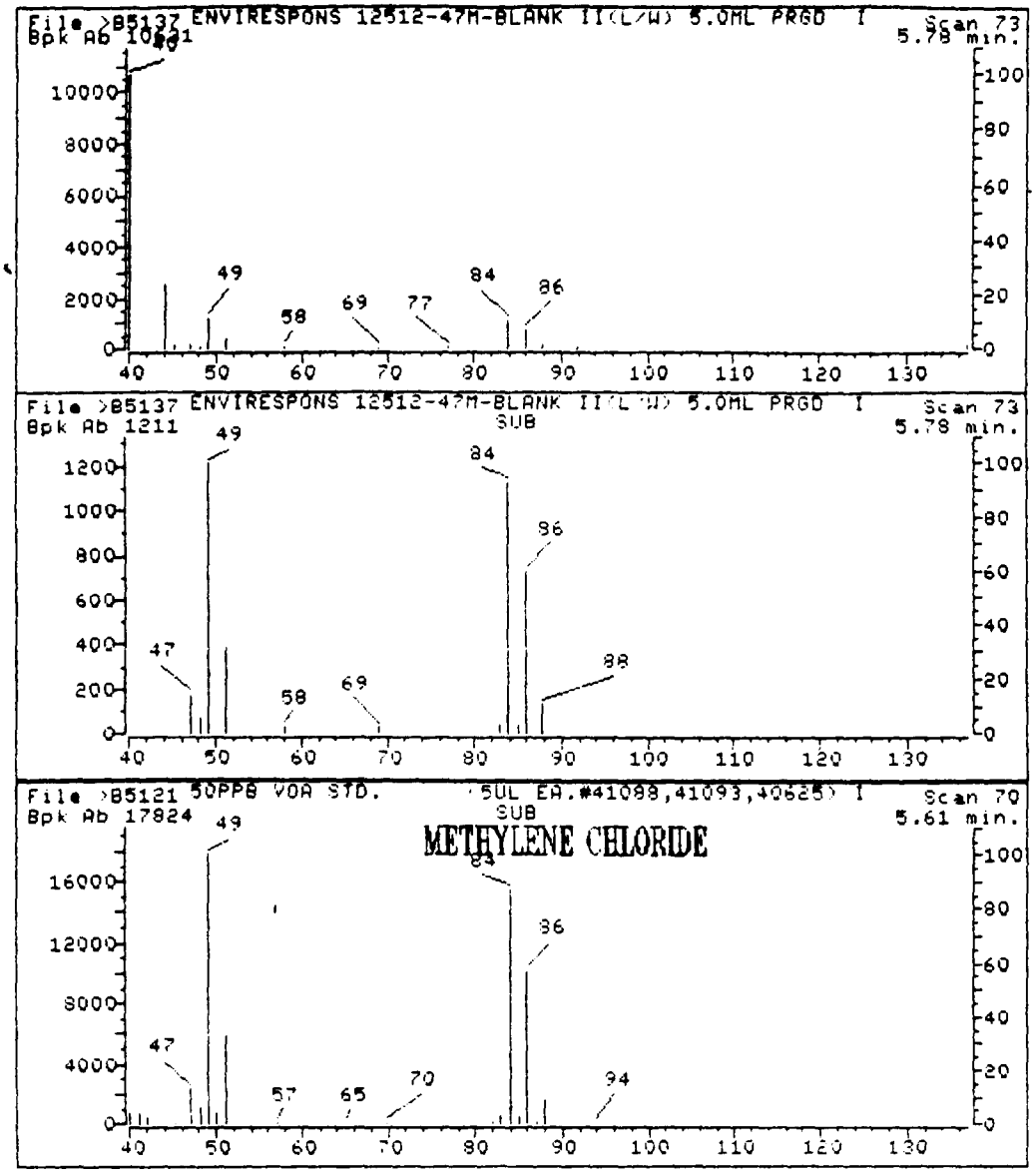
QUANT REPORT

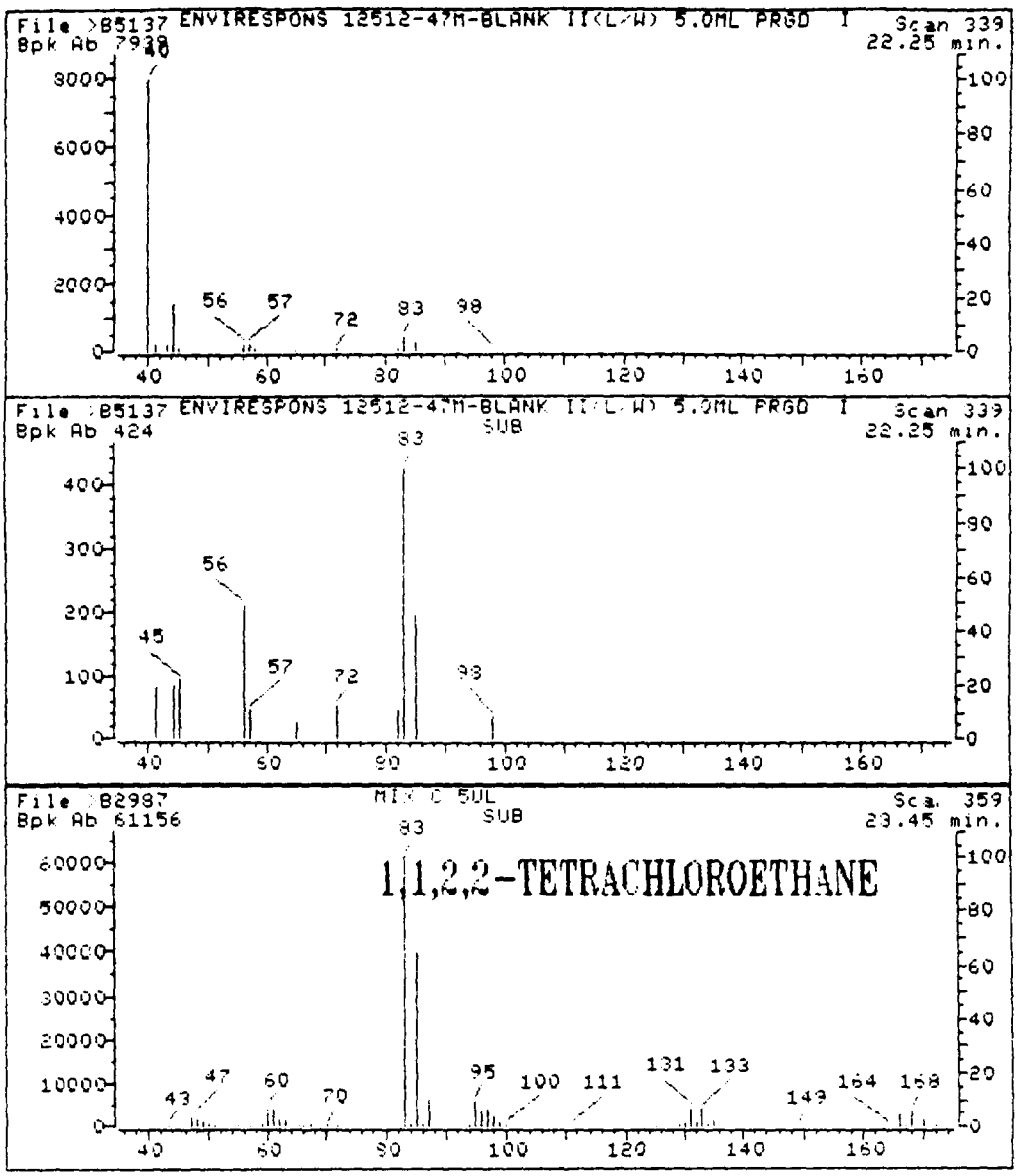
Operator ID: MIKE Quant Rev: 4 Quant Time: 860922 12:05
Output File: ^P5137::AA Injected at: 860922 11:22
Data File: >B5137::BB Dilution Factor: 1.000
Name: ENVIRESPONS 12512-47
Misc: M-BLANK II(L/W) 5.0ML PRGD IS,SS=50PPB(5UL#41036)

ID File: PPVID2::PS
Title: PRIORITY POLLUTANTS - METHOD 624
Last Calibration: 860922 11:16

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE(IS)	9.31	130	87502	50.00	ug/L	87
6)	METHYLENE CHLORIDE	5.78	73	13393	3.63	ug/L	69
14)	D4-1,2-DICHLOROETHANE(SS)	12.22	177	102535	44.92	ug/L	100
16)	*1,4-DIFLUOROBENZENE(IS)	19.71	298	420565	50.00	ug/L	100
29)	*D5-CHLOROBENZENE(IS)	24.48	375	364017	50.00	ug/L	100
31)	1,1,2,2-TETRACHLOROETHANE	22.25	339	4094	.91	ug/L	95
32)	D8-TOLUENE(SS)	23.31	356	446117	49.94	ug/L	99
36)	4-BROMOFLUOROBENZENE(SS)	28.32	437	225132	51.83	ug/L	97

* Compound is ISTD


File >B5137 ENVIRESPONS 12512-47M-BLANK II(L/W) 5.0ML PRGD I
Scan 73
5.78 min.
Bpk Ab 10821
49
58
69
77
84
86
File >B5137 ENVIRESPONS 12512-47M-BLANK II(L/W) 5.0ML PRGD I
SUB
Scan 73
5.78 min.
Bpk Ab 1211
47
49
58
69
84
86
88
File >B5121 50PPB VOA STD. (5UL EA.#41088,41093,40625) I
SUB
Scan 70
5.61 min.
Bpk Ab 17824
METHYLENE CHLORIDE
47
49
57
65
70
84
86
94


File >B5137 ENVIRESPONS 12512-47M-BLANK II(L/W) 5.0ML PRGD I Scan 339
Bpk Ab 7938
22.25 min.
File >B5137 ENVIRESPONS 12512-47M-BLANK II(L/W) 5.0ML PRGD I Scan 339
SUB
Bpk Ab 424
22.25 min.
File >B2987
MIX C 5UL
SUB
Sca. 359
Bpk Ab 61156
23.45 min.
1,1,2,2-TETRACHLOROETHANE

Sample Number
M-BX III (5)
0E7 08

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Clayton Environmental
Client: ~~Case No~~: Enviresponse
Lab Sample ID No: B 5149
QC Report No: N/A
Sample Matrix: Water
Contract No: N/A
Data Release Authorized By: [signature]
Date Sample Received: 9/18/86

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 9/23/86
Date Analyzed: 9/23/86
Conc/Dil Factor: 1 pH N/A
Percent Moisture: (Not Decanted) N/A

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10 U
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	10 U
75-00-3	Chloroethane	10 U
75-09-2	Methylene Chloride	5 U
75-69-4	Trichlorofluoromethane	1 N
75-35-4	1, 1-Dichloroethene	5 U
75-34-3	1, 1-Dichloroethane	5 U
156-60-5	Trans-1, 2-Dichloroethene	5 U
67-66-3	Chloroform	5 U
107-06-2	1, 2-Dichloroethane	5 U
71-55-6	1, 1, 1-Trichloroethane	5 U
56-23-5	Carbon Tetrachloride	5 U
75-27-4	Bromodichloromethane	5 U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	N
10061-02-6	Trans-1, 3-Dichloropropene	U
79-01-6	Trichloroethene	U
124-48-1	Dibromochloromethane	U
79-00-5	1, 1, 2-Trichloroethane	U
71-43-2	Benzene	U
10061-01-5	cis-1, 3-Dichloropropene	U
110-75-8	2-Chloroethylvinylether	10 U
75-25-2	Bromoform	U
127-18-4	Tetrachloroethene	U
79-34-5	1, 1, 2, 2-Tetrachloroethane	U
108-88-3	Toluene	U
108-90-7	Chlorobenzene	U
100-41-4	Ethylbenzene	U
541-73-1	1, 3-Dichlorobenzene	15 N
106-46-7	1, 4-Dichlorobenzene	15 N
95-50-1	1, 2-Dichlorobenzene	7 N

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

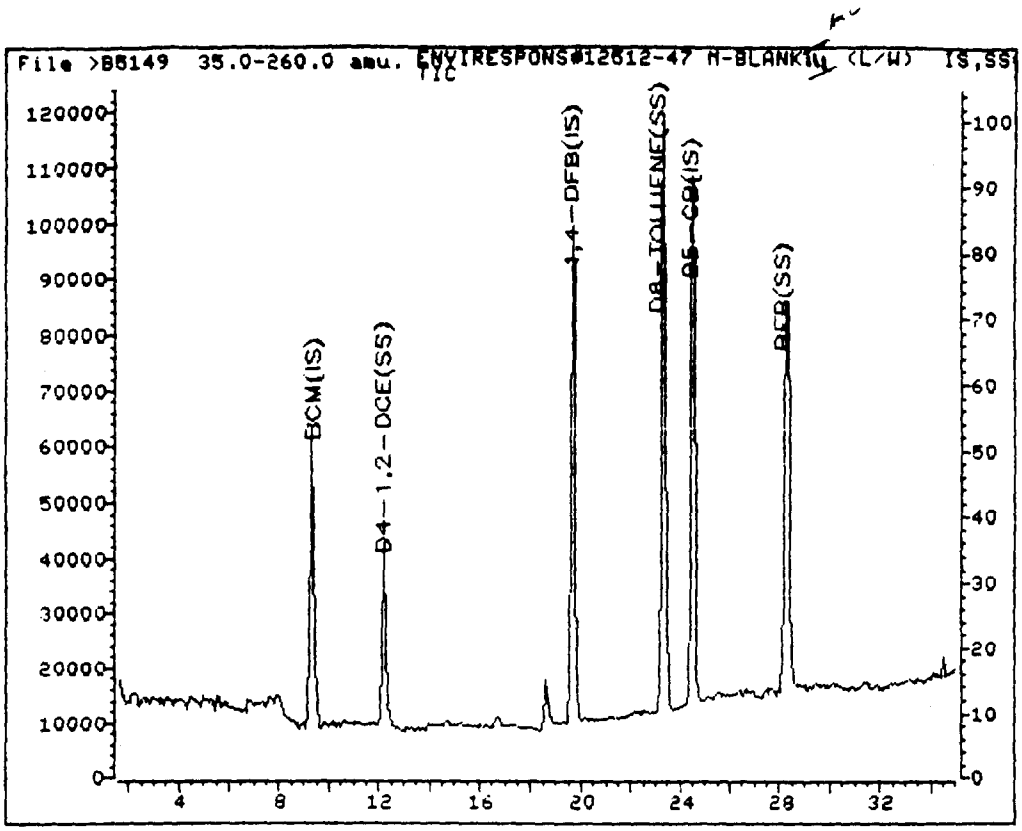
M Matrix spike compound

N Instrument limit of detection was used because it was higher than the CRDL

A Indicates a value less than the dilution corrected limit of detection but greater than the CRDL

Form I 11/85

D38-06



MS data file header from : >B5149

Sample: ENVIRESPONS#12512-47 Operator: MIKE MS 9/23/86 0:38
Misc : M-BLANK (L/W) IS,SS=50PPB(SUL#41036)
Sys. #: 2 MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: VOAME2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 0 Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

039-06

QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860923 01:19
Output File: ^PS149::AQ Injected at: 860923 00:38
Data File: >BS149::BB Dilution Factor: 1.000
Name: ENVIRESPONS#12512-47
Misc: M-BLANK(L/W) IS,SS=50PPB(SUL#41036)

ID File: PPVID2::PS
Title: PRIORITY POLLUTANTS - METHOD 624
Last Calibration: 860923 00:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE(IS)	9.34	130	87464	50.00	ug/L	94
14)	D4-1,2-DICHLOROETHANE(SS)	12.25	177	105530	47.53	ug/L	100
16)	*1,4-DIFLUOROBENZENE(IS)	19.68	297	431113	50.00	ug/L	100
29)	*D5-CHLOROBENZENE(IS)	24.51	375	368889	50.00	ug/L	100
32)	D8-TOLUENE(SS)	23.33	356	455447	50.46	ug/L	98
36)	4-BROMOFLUOROBENZENE(SS)	28.35	437	238182	51.44	ug/L	98

* Compound is ISTD

2 2 0434

Sample Number
7334 M S (oil)

042-01

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CLAYTON ENVIRONMENTAL CONSULTANTS, INC.
Case No: Enviresponse
Lab Sample ID No: B 5183 (493439 MS)
QC Report No: NA
Sample Matrix: oil
Contract No: NA
Data Release Authorized By: [signature]
Date Sample Received: 9-18-86

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 9-24-86
Date Analyzed: 9-24-86
Conc/Dil Factor: 50 pH NA
Percent Moisture: (Not Decanted) NA

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	50000 U
74-83-9	Bromomethane	50000 U
75-01-4	Vinyl Chloride	300000
75-00-3	Chloroethane	50000 U
75-09-2	Methylene Chloride	2800000 B
75-69-4	Trichlorofluoromethane	5000 U
75-35-4	1, 1-Dichloroethene	2800000 M
75-34-3	1, 1-Dichloroethane	130000
156-60-5	Trans-1, 2-Dichloroethene	4200000
67-66-3	Chloroform	25000 U
107-06-2	1, 2-Dichloroethane	25000 U
71-55-6	1, 1, 1-Trichloroethane	1900000
56-23-5	Carbon Tetrachloride	25000 U
75-27-4	Bromodichloromethane	25000 U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	35000 N
10061-02-6	Trans-1, 3-Dichloropropene	25000 U
79-01-6	Trichloroethene	8500000 M
124-48-1	Dibromochloromethane	25000 U
79-00-5	1, 1, 2-Trichloroethane	25000 U
71-43-2	Benzene	2900000 M
10061-01-5	cis-1, 3-Dichloropropene	25000 U
110-75-8	2-Chloroethylvinylether	50000 U
75-25-2	Bromoform	25000 U
127-18-4	Tetrachloroethene	6000000
79-34-5	1, 1, 2, 2-Tetrachloroethane	25000 U
108-88-3	Toluene	4500000 M
108-90-7	Chlorobenzene	3300000 M
100-41-4	Ethylbenzene	280000 B
541-73-1	1, 3-Dichlorobenzene	75000 N
106-46-7	1, 4-Dichlorobenzene	75000 N
95-50-1	1, 2-Dichlorobenzene	35000 N

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

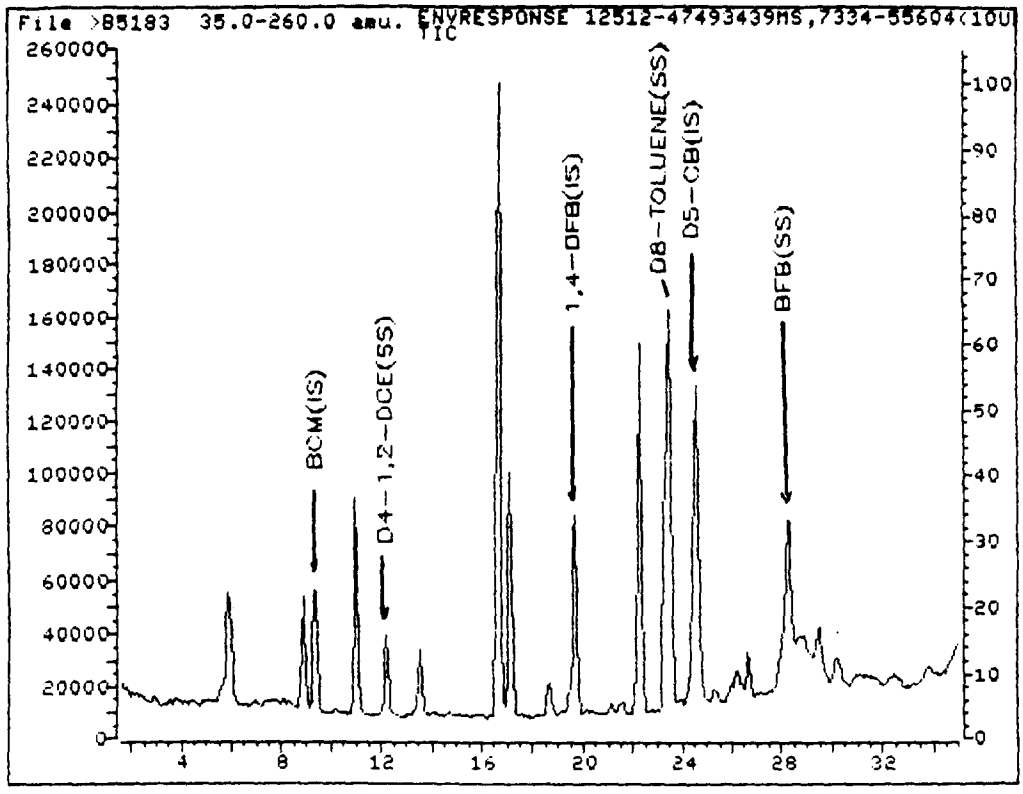
B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

M Matrix spike compound

N Instrument limit of detection

471 **A** Indicates a value less than the dilution corrected limit of detection but greater than the CRDL



MS data file header from : >85183

Sample: ENVRESPONSE 12512-47 Operator: MIKE MS 9/24/86 15:10
Misc : 493439MS,7334-55604(10UL/1:50)MS,IS,SS=50PPB(5UL#41036
Sys. #: 26 MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: VOAME2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 0 Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

044-01

QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860925 09:39
Output File: ^B5183::AQ Injected at: 860924 15:10
Data File: >B5183::BB Dilution Factor: 62500.00
Name: ENVRESPONSE 12512-47
Misc: 493439MS,7334-55604(10UL/1:50)MS,IS,SS=50PPB(SUL#41036

ID File: PPSID2::AA
Title: PRIORITY POLLUTANTS (SOILS)
Last Calibration: 860925 09:31

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE(IS)	9.31	130	77536	50.00	ug/Kg	92
4)	VINYL CHLORIDE	2.87	26	15780	300926.1	ug/Kg	96
6)	METHYLENE CHLORIDE	5.85	74	164071	2760695.	ug/Kg	72
10)	1,1-DICHLOROETHENE	8.88	123	111089	2831519.	ug/Kg	90
11)	1,1-DICHLOROETHANE	10.18	144	9878	132736.3	ug/Kg	68
12)	TRANS-1,2-DICHLOROETHENE	10.99	157	194520	4234402.	ug/Kg	81
14)	D4-1,2-DICHLOROETHANE(SS)	12.22	177	93578	2711282.	ug/Kg	100
16)	*1,4-DIFLUOROBENZENE(IS)	19.72	298	356332	50.00	ug/Kg	100
17)	1,1,1-TRICHLOROETHANE	13.52	198	97305	1853323.	ug/Kg	94
22)	TRICHLOROETHENE	16.68	249	459507	8501576.	ug/Kg	99
25)	BENZENE	17.12	256	456026	2876439.	ug/Kg	91
29)	*D5-CHLOROBENZENE(IS)	24.49	375	296514	50.00	ug/Kg	100
30)	TETRACHLOROETHENE	22.26	339	223500	5958822.	ug/Kg	97
32)	D8-TOLUENE(SS)	23.31	356	364271	3037381.	ug/Kg	97
33)	TOLUENE	23.50	359	384580	4523610.	ug/Kg	91
34)	CHLOROBENZENE	24.61	377	312021	3283542.	ug/Kg	83
35)	ETHYLBENZENE	26.41	406	14121	284161.4	ug/Kg	96
36)	4-BROMOFLUOROBENZENE(SS)	28.33	437	185983	3261931.	ug/Kg	97

* Compound is ISTD

2 2 0437

Sample Number
T346 HS

042-04

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Clayton Environmental
client: ~~Case No~~: Envirosponge Inc.
Lab Sample ID No: B5128 (49342 HS)
QC Report No: N/A
Sample Matrix: Water
Contract No: N/A
Data Release Authorized By: [signature]
Date Sample Received: 9/18/86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 9/21/86
Date Analyzed: 9/21/86
Conc/(Dil Factor): 1 pH 7.2
Percent Moisture: (Not Decanted) N/A

CAS Number		(ug/l or ug/Kg) (Circle One)
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	37
75-69-4	Trichlorofluoromethane	1 N
75-35-4	1, 1-Dichloroethene	43 M
75-34-3	1, 1-Dichloroethane	5 U
156-60-5	Trans-1, 2-Dichloroethene	1 J
67-66-3	Chloroform	5 U
107-06-2	1, 2-Dichloroethane	5 U
71-55-6	1, 1, 1-Trichloroethane	5 U
56-23-5	Carbon Tetrachloride	5 U
75-27-4	Bromodichloromethane	5 U

CAS Number		(ug/l or ug/Kg) (Circle One)
78-87-5	1, 2-Dichloropropane	7 N
10061-02-6	Trans-1, 3-Dichloropropene	5 U
79-01-6	Trichloroethene	52 M
124-48-1	Dibromochloromethane	5 U
79-00-5	1, 1, 2-Trichloroethane	5 U
71-43-2	Benzene	53 M
10061-01-5	cis-1, 3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U
75-25-2	Bromoform	5 U
127-18-4	Tetrachloroethene	5 U
79-34-5	1, 1, 2, 2-Tetrachloroethane	5 U
108-88-3	Toluene	50 M
108-90-7	Chlorobenzene	51 M
100-41-4	Ethylbenzene	5 U
541-73-1	1, 3-Dichlorobenzene	15 N
106-46-7	1, 4-Dichlorobenzene	15 N
95-50-1	1, 2-Dichlorobenzene	7 N

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value — If the result is a value greater than or equal to the detection limit, report the value

U — Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J — Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J

C — This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

B — This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action

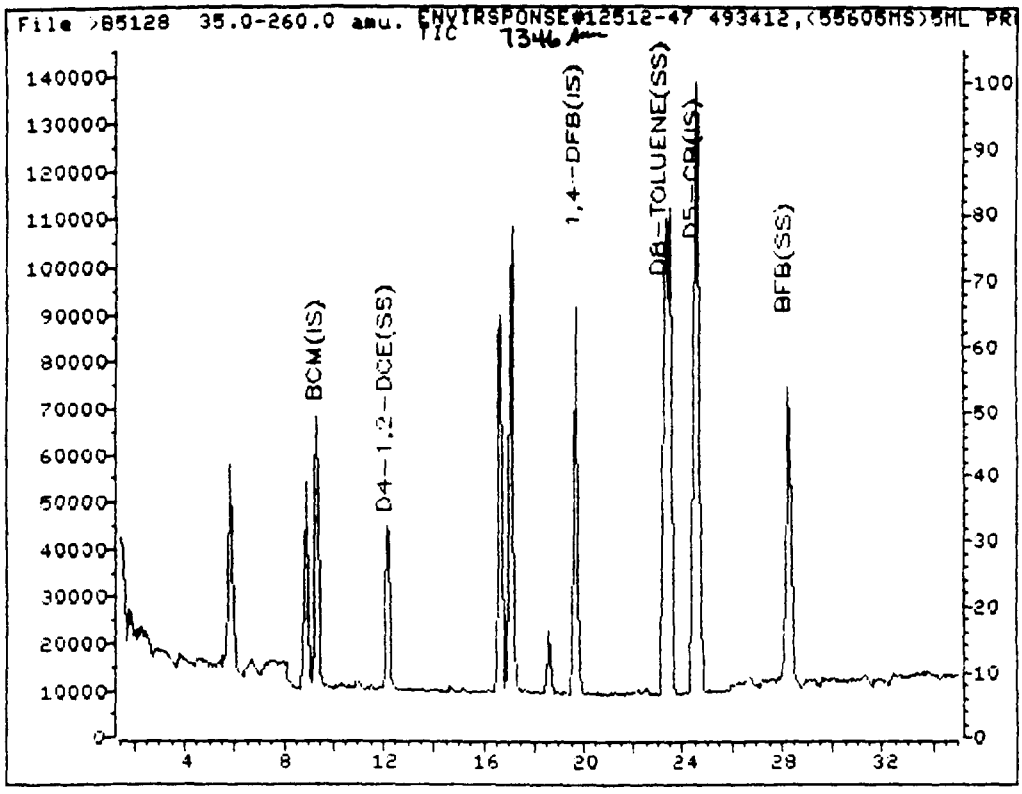
Other — Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

M — Matrix spike compound

N — Instrument limit of detection

A — Indicates a value less than the dilution corrected limit of detection but greater than the CRQL

043-03



MS data file header from : >B5128

Sample: ENVIRSPONSE#12512-47 T346 Operator: MIKE MS 9/21/86 21:50
Misc : 493412,(55605MS)5ML PRGD. IS,SS=50PPB(SUL#41036)MS=5U
Sys. #: 2 MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: VOAME2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 0 Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

044-03

QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860921 22:41
Output File: ^P5128::AQ Injected at: 860921 21:50
Data File: >B5128::BB Dilution Factor: 1.000
Name: ENVIRSPONSE#12512-47-13
Misc: 493412,(55605MS)5ML PRGD. IS,SS=50PPB(5UL#41036)MS=5U

ID File: PPVID2::PS
Title: PRIORITY POLLUTANTS - METHOD 624
Last Calibration: 860921 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE(IS)	9.32	130	84672	50.00	ug/L	86
6)	METHYLENE CHLORIDE	5.85	74	141698	37.39	ug/L	81
10)	1,1-DICHLOROETHENE	8.88	123	109595	42.65	ug/L	91
12)	TRANS-1,2-DICHLOROETHENE	10.99	157	3963	1.35	ug/L	82
14)	D4-1,2-DICHLOROETHANE(SS)	12.16	176	113106	50.22	ug/L	100
16)	*1,4-DIFLUOROBENZENE(IS)	19.66	297	377943	50.00	ug/L	100
22)	TRICHLOROETHENE	16.62	248	168538	52.15	ug/L	96
25)	BENZENE	17.12	256	500750	53.09	ug/L	91
29)	*D5-CHLOROBENZENE(IS)	24.49	375	319013	50.00	ug/L	100
32)	D8-TOLUENE(SS)	23.31	356	402527	49.27	ug/L	98
33)	TOLUENE	23.49	359	273855	50.14	ug/L	94
34)	CHLOROBENZENE	24.61	377	316220	50.77	ug/L	82
36)	4-BROMOFLUOROBENZENE(SS)	28.26	436	200293	49.39	ug/L	96

* Compound is ISTD

2 2 0440

Sample Number
7331

013-01

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Clayton Environmental
~~Case No~~ Client: Envirosponse
Lab Sample ID No: 493408 (B5123)
QC Report No: NA
Sample Matrix: Water
Contract No: NA
Data Release Authorized By: [signature]
Date Sample Received: 9/18/86

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 9/21/86
Date Analyzed: 9/21/86
Conc/Dil Factor: 1 pH NA
Percent Moisture: (Not Decanted) NA

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10 U
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	10 U
75-00-3	Chloroethane	10 U
75-09-2	Methylene Chloride	5 U
75-69-4	Trichlorofluoromethane	1 N
75-35-4	1, 1-Dichloroethene	5 U
75-34-3	1, 1-Dichloroethane	5 U
156-60-5	Trans-1, 2-Dichloroethene	5 U
67-66-3	Chloroform	5 U
107-06-2	1, 2-Dichloroethane	5 U
71-55-6	1, 1, 1-Trichloroethane	5 U
56-23-5	Carbon Tetrachloride	5 U
75-27-4	Bromodichloromethane	5 U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	7 N
10061-02-6	Trans-1, 3-Dichloropropene	5 U
79-01-6	Trichloroethene	4 J
124-48-1	Dibromochloromethane	5 U
79-00-5	1, 1, 2-Trichloroethane	5 U
71-43-2	Benzene	5 U
10061-01-5	cis-1, 3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U
75-25-2	Bromoform	5 U
127-18-4	Tetrachloroethene	5 U
79-34-5	1, 1, 2, 2-Tetrachloroethane	5 U
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
541-73-1	1, 3-Dichlorobenzene	15 N
106-46-7	1, 4-Dichlorobenzene	15 N
95-50-1	1, 2-Dichlorobenzene	7 N

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

N Matrix spike compound

N Instrument limit of detection

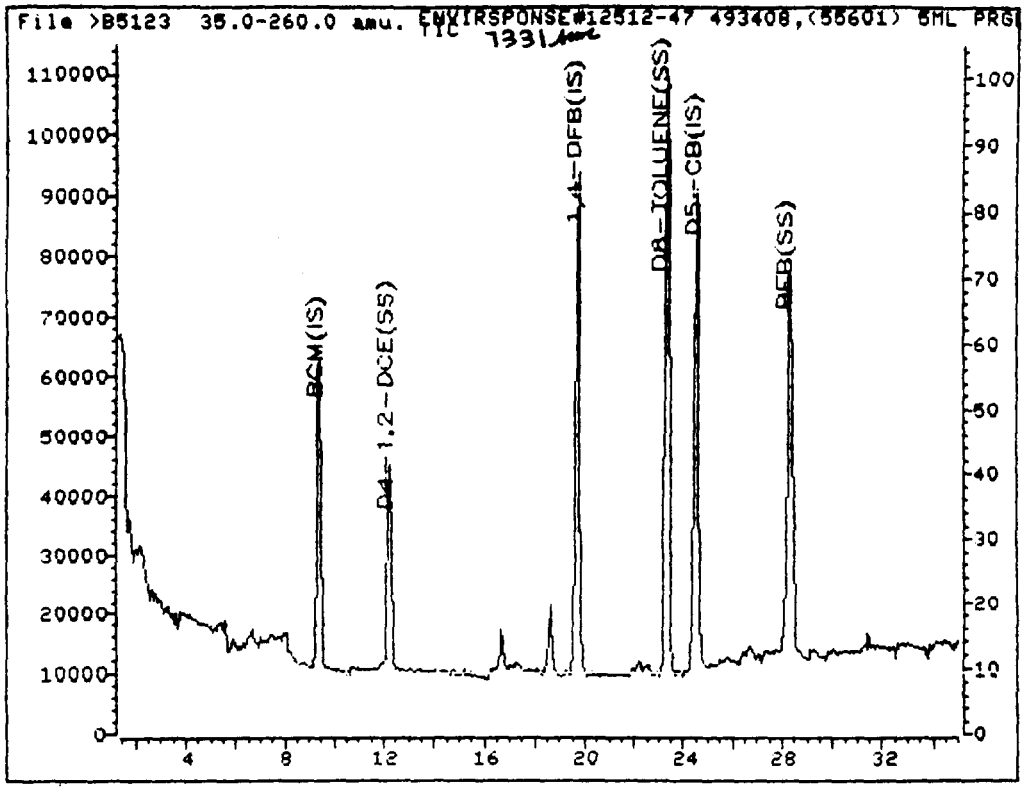
A Indicates a value less than the dilution corrected limit of detection but greater than the CRDL

059

Form I

11/85

2 2 0441
014-01



MS data file header from : >B5123

Sample: ENVIRSPONSE#12512-47 7331 Amc Operator: MIKE MS 9/21/86 16:57
Misc : 493408,(55601) 5ML PRGD. IS,SS=50PPB(SUL#41036)
Sys. #: 2B MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: VOAME2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 0 Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

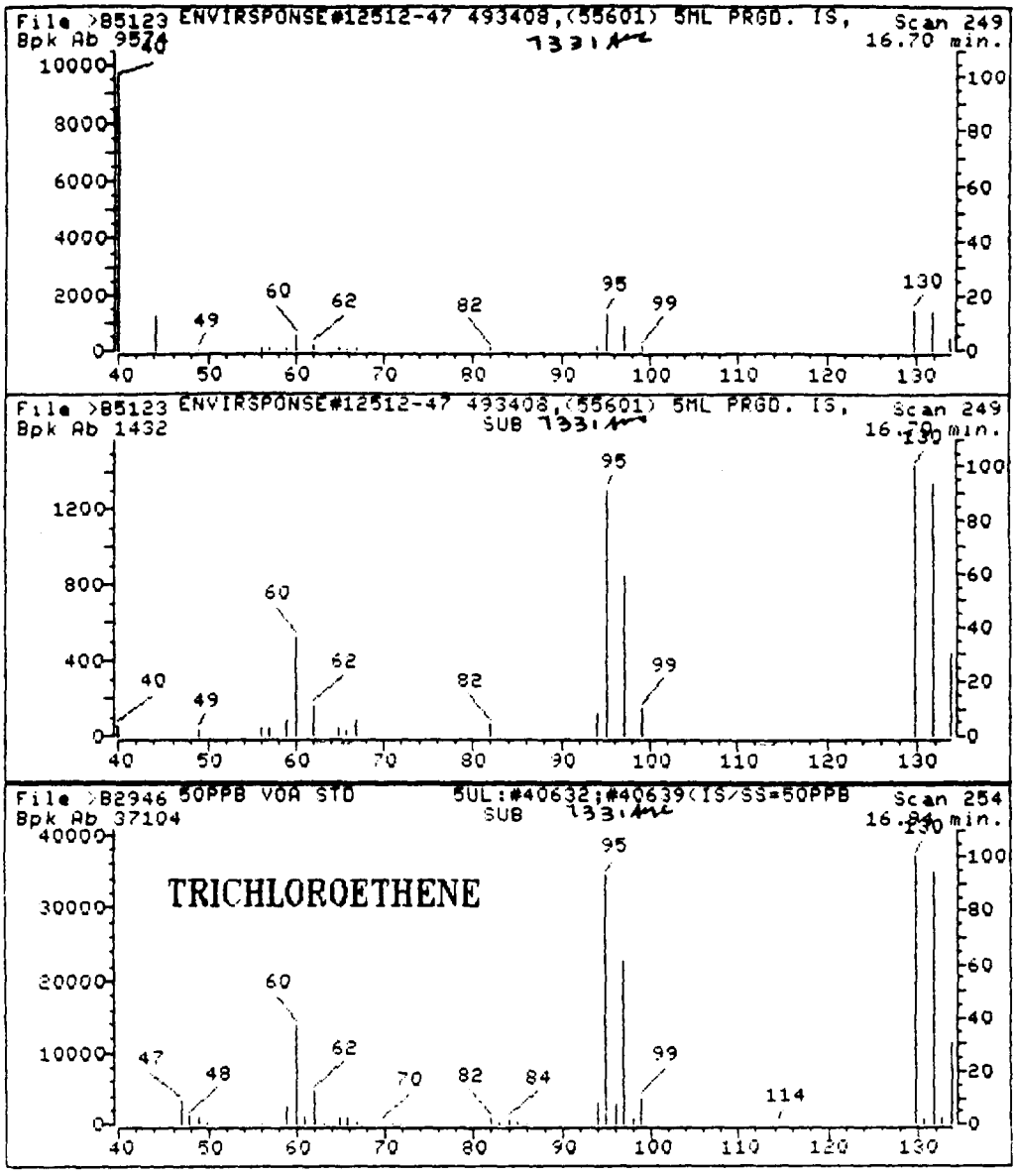
QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860921 17:48
Output File: ^P5123::AQ Injected at: 860921 16:57
Data File: >B5123::BB Dilution Factor: 1.000
Name: ENVIRSPONSE#12512-47 -1331 Amc
Misc: 493408,(55601) 5ML PRGD. IS,SS=50PPB(5UL#41036)

ID File: PPVID2::PS
Title: PRIORITY POLLUTANTS - METHOD 624
Last Calibration: 860921 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE(IS)	9.33	130	80750	50.00	ug/L	93
14)	D4-1,2-DICHLOROETHANE(SS)	12.24	177	106073	49.38	ug/L	100
16)	*1,4-DIFLUOROBENZENE(IS)	19.73	298	387836	50.00	ug/L	100
22)	TRICHLOROETHENE	16.70	249	13831	4.17	ug/L	98
29)	*D5-CHLOROBENZENE(IS)	24.50	375	316402	50.00	ug/L	100
32)	D8-TOLUENE(SS)	23.32	356	416544	51.41	ug/L	98
36)	4-BROMOFLUOROBENZENE(SS)	28.34	437	212510	52.84	ug/L	92

* Compound is ISTD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Bpk Ab 9574
16.70 min.
File >B5123 ENVIRSPONSE#12512-47 493408,(55601) 5ML PRGD. IS, Scan 249
Bpk Ab 1432
SUB
16.70 min.
File >B2946 50PPB VOA STD 5UL:#40632;#40639(IS/SS=50PPB Scan 254
Bpk Ab 37104
SUB
16.84 min.
TRICHLOROETHENE

2 2 0444

Sample Number
7332

013-02

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Clayton Environmental
Client: ~~Case No~~: EnviResponse
Lab Sample ID No: B5124 (493409)
QC Report No: NA
Sample Matrix: Water
Contract No: NA
Data Release Authorized By: [signature]
Date Sample Received: 9/18/86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 9/21/86
Date Analyzed: 9/21/86
Conc/(Dil Factor): 1 pH 6.4
Percent Moisture: (Not Decanted) NA

CAS Number		ug/l or ug/Kg (Circle One)
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	1 J
75-69-4	Trichlorofluoromethane	1 N
75-35-4	1, 1-Dichloroethene	5 U
75-34-3	1, 1-Dichloroethane	5 U
156-60-5	Trans-1, 2-Dichloroethene	5 U
67-66-3	Chloroform	5 U
107-06-2	1, 2-Dichloroethane	5 U
71-55-6	1, 1, 1-Trichloroethane	5 U
56-23-5	Carbon Tetrachloride	5 U
75-27-4	Bromodichloromethane	5 U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	7 N
10061-02-6	Trans-1, 3-Dichloropropene	5 U
79-01-6	Trichloroethene	5 U
124-48-1	Dibromochloromethane	5 U
79-00-5	1, 1, 2-Trichloroethane	5 U
71-43-2	Benzene	5 U
10061-01-5	cis-1, 3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U
75-25-2	Bromoform	5 U
127-18-4	Tetrachloroethene	5 U
79-34-5	1, 1, 2, 2-Tetrachloroethane	5 U
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
541-73-1	1, 3-Dichlorobenzene	15 N
106-46-7	1, 4-Dichlorobenzene	15 N
95-50-1	1, 2-Dichlorobenzene	7 N

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value — If the result is a value greater than or equal to the detection limit report the value

U — Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J — Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J

C — This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

B — This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action

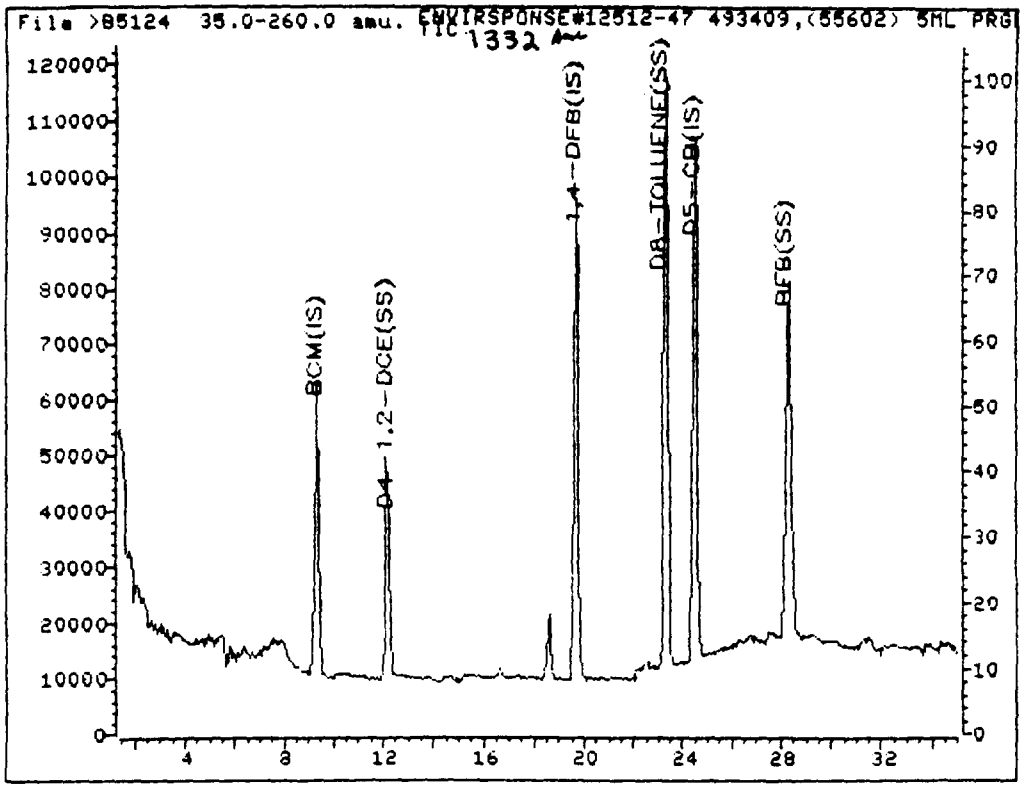
Other — Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

N — Matrix spike compound

N — Instrument limit of detection

A — Indicates a value less than the dilution corrected limit of detection but greater than the CRQL

Ub3



MS data file header from : >B5124

Sample: ENVIRSPONSE#12512-47 Operator: MIKE MS 9/21/86 18:01
Misc 1332-493409,(55602) 5ML PRGD. IS,SS=50PPB(SUL#41036)
Sys. #: 2B MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: VOAME2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 0 Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

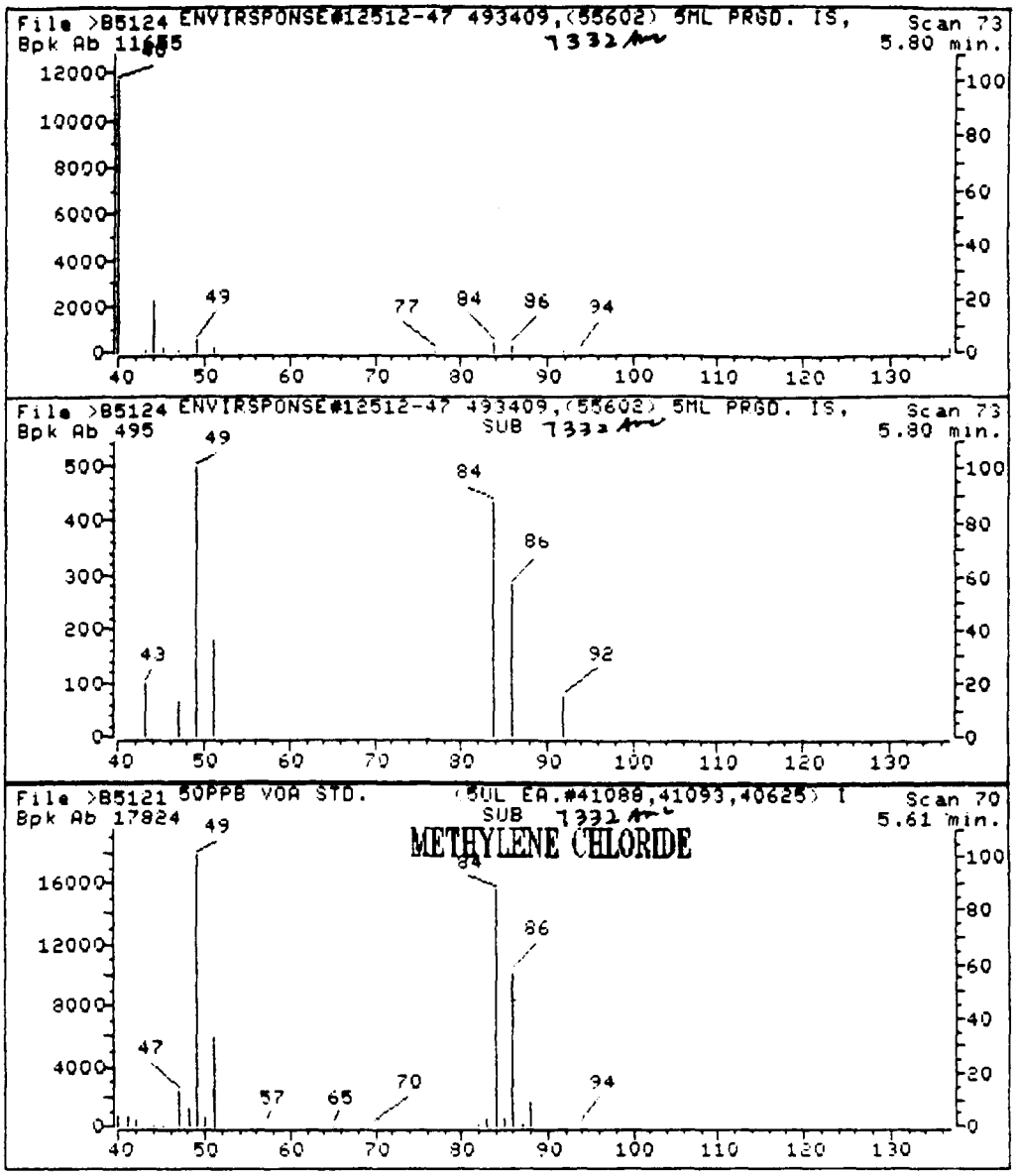
QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860921 18:51
Output File: ^PS124::AQ Injected at: 860921 18:01
Data File: >BS124::BB Dilution Factor: 1.000
Name: ENVIRSPONSE#12512-47 - 1332
Misc: 493409,(55602) 5ML PRGD. IS,SS=50PPB(SUL#41036)

ID File: PPVID2::PS
Title: PRIORITY POLLUTANTS - METHOD 624
Last Calibration: 860921 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE(IS)	9.27	129	81564	50.00	ug/L	93
6)	METHYLENE CHLORIDE	5.80	73	4093	1.12	ug/L	75
14)	D4-1,2-DICHLOROETHANE(SS)	12.18	176	110931	51.13	ug/L	100
16)	*1,4-DIFLUOROBENZENE(IS)	19.67	297	397792	50.00	ug/L	100
29)	*D5-CHLOROBENZENE(IS)	24.50	375	341540	50.00	ug/L	100
32)	D8-TOLUENE(SS)	23.32	356	440717	50.39	ug/L	97
36)	4-BROMOFLUOROBENZENE(SS)	28.28	436	212643	48.98	ug/L	88

* Compound is ISTD


File >B5124 ENVIRSPONSE#12512-47 493409,(55602) 5ML PRGD. IS,
Scan 73
Bpk Ab 11655
5.80 min.
7332
49
77
84
86
94
File >B5124 ENVIRSPONSE#12512-47 493409,(55602) 5ML PRGD. IS,
Scan 73
Bpk Ab 495
SUB 7332
5.80 min.
49
84
86
43
92
File >B5121 50PPB VOA STD. (5UL EA.#41088,41093,40625) I
Scan 70
Bpk Ab 17824
SUB 7332
5.61 min.
METHYLENE CHLORIDE
49
84
86
47
57
65
70
94

2 2 0448

Sample Number
T332 DUP

013-05

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Clayton Environmental
Client ~~Case No~~: Envirespons e
Lab Sample ID No: B 5125 (493409)
QC Report No: NA
Sample Matrix: water
Contract No: NA
Data Release Authorized By: [signature]
Date Sample Received: 9/18/86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 9/21/86
Date Analyzed: 9/21/86
Conc/(Dil Factor) 1 pH 6.4
Percent Moisture: (Not Decanted) NA

CAS Number		(ug/l) or ug/Kg (Circle One)
74-87-3	Chloromethane	10 U
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	10 U
75-00-3	Chloroethane	10 U
75-09-2	Methylene Chloride	5 U
75-69-4	Trichlorofluoromethane	1 N
75-35-4	1, 1-Dichloroethene	5 U
75-34-3	1, 1-Dichloroethane	5 U
156-60-5	Trans-1, 2-Dichloroethene	5 U
67-66-3	Chloroform	5 U
107-06-2	1, 2-Dichloroethane	5 U
71-55-6	1, 1, 1-Trichloroethane	5 U
56-23-5	Carbon Tetrachloride	5 U
75-27-4	Bromodichloromethane	5 U

CAS Number		(ug/l) or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	7 N
10061-02-6	Trans-1, 3-Dichloropropene	5 U
79-01-6	Trichloroethene	5 U
124-48-1	Dibromochloromethane	5 U
79-00-5	1, 1, 2-Trichloroethane	5 U
71-43-2	Benzene	5 U
10061-01-5	cis-1, 3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U
75-25-2	Bromoform	5 U
127-18-4	Tetrachloroethene	5 U
79-34-5	1, 1, 2, 2-Tetrachloroethane	5 U
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
541-73-1	1, 3-Dichlorobenzene	15 N
106-46-7	1, 4-Dichlorobenzene	15 N
95-50-1	1, 2-Dichlorobenzene	7 N

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value — If the result is a value greater than or equal to the detection limit report the value

U — Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read U- Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J — Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J

C — This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

B — This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action

Other — Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

M Matrix spike compound

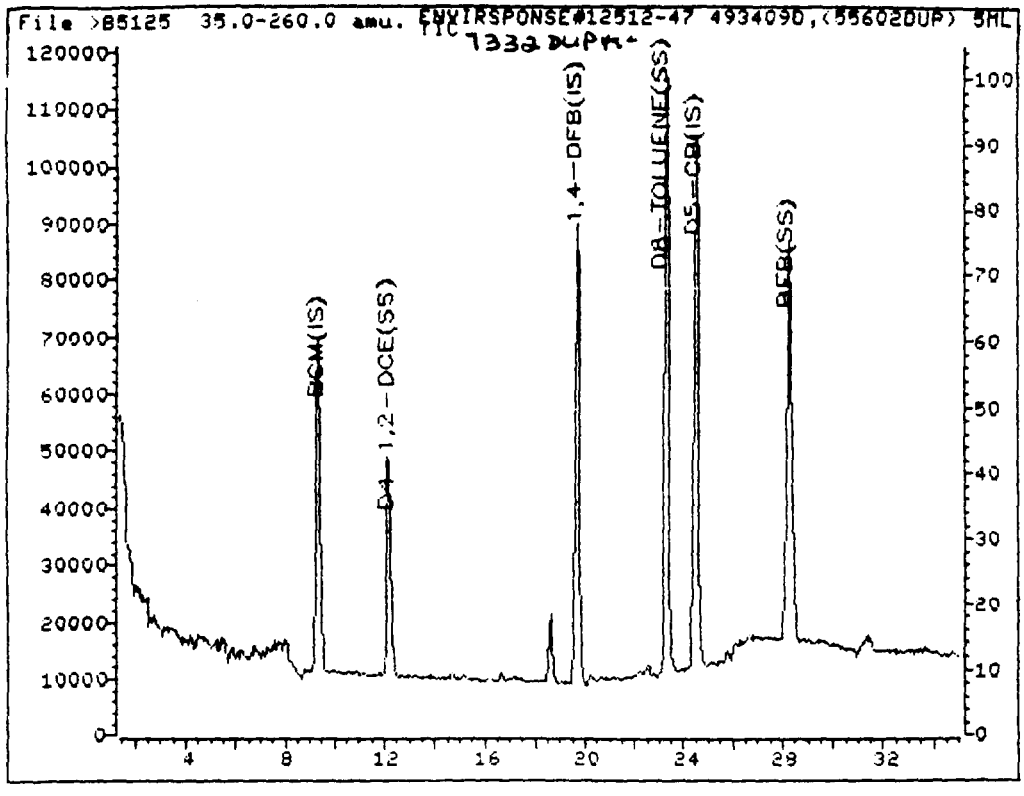
N Instrument limit of detection

A Indicates a value less than the dilution corrected limit of detection but greater than the CRDL

074

Form I

11/85



MS data file header from : >B5125

Sample: ENVIRSPONSE#12512-47/ 7332 DUPM Operator: MIKE MS 9/21/86 18:58
Misc : 493409D,(55602DUP) SML PRGD. IS,SS=50PPB(SUL#41036)
Sys. #: 2 B MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: VOAME2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 0 Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860921 19:49
Output File: ^PS125::AQ Injected at: 860921 18:58
Data File: >BS125::BB Dilution Factor: 1.000
Name: ENVIRSPONSE#12512-47
Misc: 493409D,(55602DUP) 5ML PRGD. IS,SS=50PPB(5UL#41036)
7332 DuP 1ml
ID File: PPVID2::PS
Title: PRIORITY POLLUTANTS - METHOD 624
Last Calibration: 860921 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE(IS)	9.33	129	87127	50.00	ug/L	86
14)	D4-1,2-DICHLOROETHANE(SS)	12.17	175	115650	49.90	ug/L	100
16)	*1,4-DIFLUOROBENZENE(IS)	19.67	296	380813	50.00	ug/L	100
29)	*D5-CHLOROBENZENE(IS)	24.50	374	336082	50.00	ug/L	100
32)	D8-TOLUENE(SS)	23.32	355	432665	50.27	ug/L	99
36)	4-BROMOFLUOROBENZENE(SS)	28.28	435	218697	51.19	ug/L	98

* Compound is ISTD

2 2 0451

Sample Number
7332

013-08

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Clayton Environmental
Client Case No: Envirosponse
Lab Sample ID No: B 5126 (493410)
QC Report No: N/A
Sample Matrix: water
Contract No: N/A
Data Release Authorized By: [signature]
Date Sample Received: 9/18/86

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 9/21/86
Date Analyzed: 9/21/86
Conc/Dil Factor: 1 pH 6.8
Percent Moisture: (Not Decanted) N/A

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10 U
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	10 U
75-00-3	Chloroethane	10 U
75-09-2	Methylene Chloride	5 U
75-69-4	Trichlorofluoromethane	1 N
75-35-4	1, 1-Dichloroethene	5 U
75-34-3	1, 1-Dichloroethane	5 U
156-60-5	Trans-1, 2-Dichloroethene	5 U
67-66-3	Chloroform	5 U
107-06-2	1, 2-Dichloroethane	5 U
71-55-6	1, 1, 1-Trichloroethane	5 U
56-23-5	Carbon Tetrachloride	5 U
75-27-4	Bromodichloromethane	5 U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	7 N
10061-02-6	Trans-1, 3-Dichloropropene	5 U
79-01-6	Trichloroethene	5 U
124-48-1	Dibromochloromethane	5 U
79-00-5	1, 1, 2-Trichloroethane	5 U
71-43-2	Benzene	5 U
10061-01-5	cis-1, 3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U
75-25-2	Bromoform	5 U
127-18-4	Tetrachloroethene	5 U
79-34-5	1, 1, 2, 2-Tetrachloroethane	5 U
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
541-73-1	1 3-Dichlorobenzene	15 N
106-46-7	1 4-Dichlorobenzene	15 N
95-50-1	1 2-Dichlorobenzene	7 N

J Am

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action

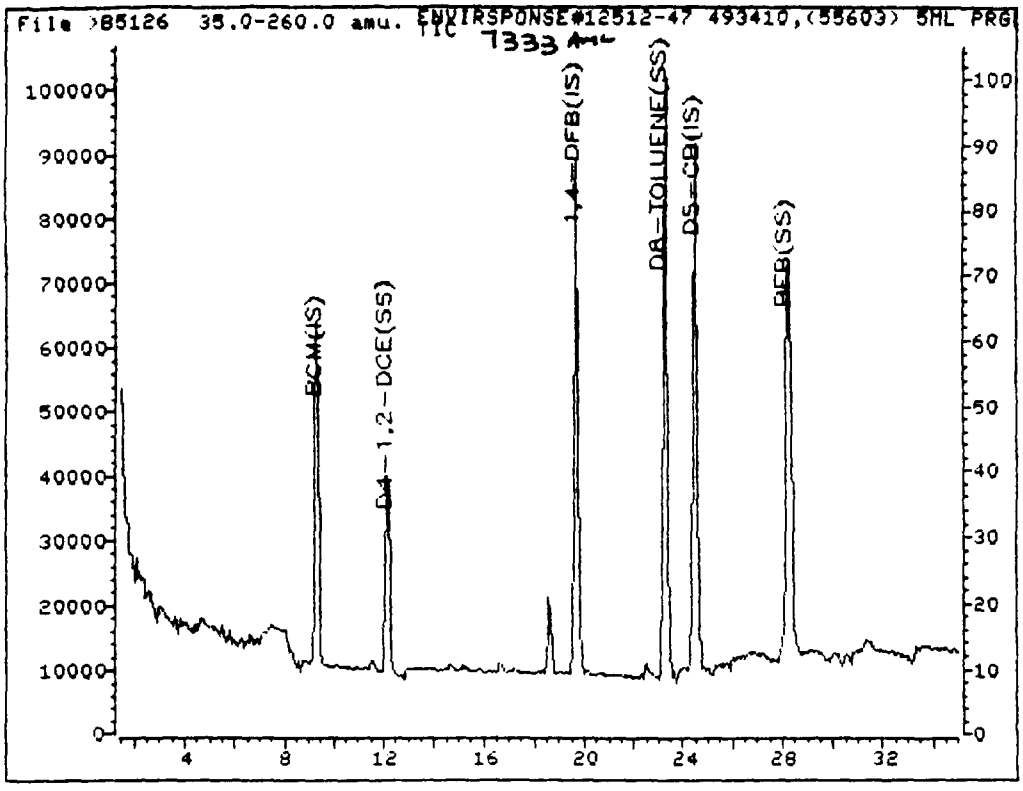
Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

M Matrix spike compound

N Instrument limit of detection

083

A Indicates a value less than the dilution corrected limit of detection but greater than the CRDL



MS data file header from : >B5126

Sample: ENVIRSPONSE#12512-47 7333 AMU Operator: MIKE MS 9/21/86 19:55
Misc : 493410,(55603) 5ML PRGD. IS,SS=50PPB(SUL#41036)
Sys. #: 2 B MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: VOAME2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 0 Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860921 0:4[illegible]
Output File: ^P5126::AQ Injected at: 860921 [illegible]:5[illegible]
Data File: >B5126::BB Dilution Factor: [illegible].0[illegible]
Name: ENVIRSPONSE#12512-47-1333 mc
Misc: 493410,(55603) SML PRGD. IS,SS=50PPB(5UL#41036)

ID File: PPVID2::PS
Title: PRIORITY POLLUTANTS - METHOD 624
Last Calibration: 860921 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	
1)	*BROMOCHLOROMETHANE(IS)	9.31	130	77574	50.00	u/L	[illegible]0
14)	D4-1,2-DICHLOROETHANE(SS)	12.16	176	100103	48.51	u/L	[illegible]0
16)	*1,4-DIFLUOROBENZENE(IS)	19.71	298	368185	50.00	u/L	[illegible]0
29)	*D5-CHLOROBENZENE(IS)	24.48	375	310510	50.00	u/L	[illegible]0
32)	D8-TOLUENE(SS)	23.30	356	382709	48.13	u/L	[illegible]9
36)	4-BROMOFLUOROBENZENE(SS)	28.32	437	198305	50.24	u/L	[illegible]3

* Compound is ISTD

2 2 0454

Sample Number
T334-
013-11

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Clayton Environmental
Client Case No: Envirespense
Lab Sample ID No: B5150(493411)
QC Report No: N/A
Sample Matrix: Water
Contract No: N/A
Data Release Authorized By:
Date Sample Received: 9/18/86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 9/23/86
Date Analyzed: 9/23/86
Conc/(Dil Factor) 500 pH 5.0
Percent Moisture: (Not Decanted) N/A

CAS Number		(ug/l or ug/Kg) (Circle One)
74-87-3	Chloromethane	5000 U
74-83-9	Bromomethane	5000 U
75-01-4	Vinyl Chloride	9800
75-00-3	Chloroethane	5000 U
75-09-2	Methylene Chloride	5500
75-69-4	Trichlorofluoromethane	500 N
75-35-4	1, 1-Dichloroethene	2500 U
75-34-3	1, 1-Dichloroethane	1700 J
156-60-5	Trans-1, 2-Dichloroethene	52000
67-66-3	Chloroform	2500 U
107-06-2	1, 2-Dichloroethane	2500 U
71-55-6	1, 1, 1-Trichloroethane	6300
56-23-5	Carbon Tetrachloride	2500 U
75-27-4	Bromodichloromethane	2500 U

CAS Number		(ug/l or ug/Kg) (Circle One)
78-87-5	1, 2-Dichloropropane	3500 N
10061-02-6	Trans-1, 3-Dichloropropene	2500 U
79-01-6	Trichloroethene	30000
124-48-1	Dibromochloromethane	2500 U
79-00-5	1, 1, 2-Trichloroethane	2500 U
71-43-2	Benzene	2500 U
10061-01-5	cis-1, 3-Dichloropropene	2500 U
110-75-8	2-Chloroethylvinylether	5000 U
75-25-2	Bromoform	2500 U
127-18-4	Tetrachloroethene	9600
79-34-5	1, 1, 2, 2-Tetrachloroethane	2500 U
108-88-3	Toluene	4600
108-90-7	Chlorobenzene	2500 U
100-41-4	Ethylbenzene	500 J
541-73-1	1 3-Dichlorobenzene	7500 N
106-46-7	1 4-Dichlorobenzene	7500 N
95-50-1	1 2-Dichlorobenzene	3500 N

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value — If the result is a value greater than or equal to the detection limit report the value

U — Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J — Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J

C — This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

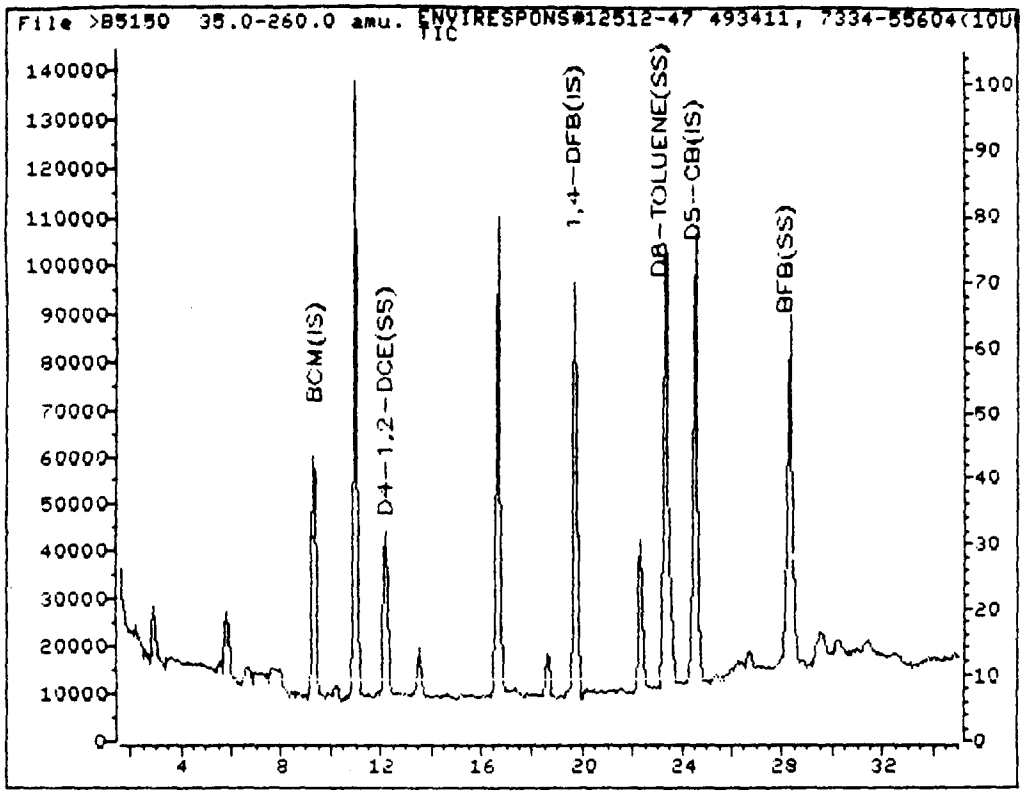
B — This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action

Other — Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

M Matrix spike compound

N Instrument limit of detection

093A Indicates a value less than the dilution corrected limit of detection but greater than the CRDL



MS data file header from : >B5150

Sample: ENVIRESPONS#12512-47 Operator: MIKE MS 9/23/86 2:01
Misc : 493411, 7334-55604(10UL PRGD.) IS,SS=50PPB(SUL#41036)
Sys. #: 2B MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: VOAME2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 0 Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

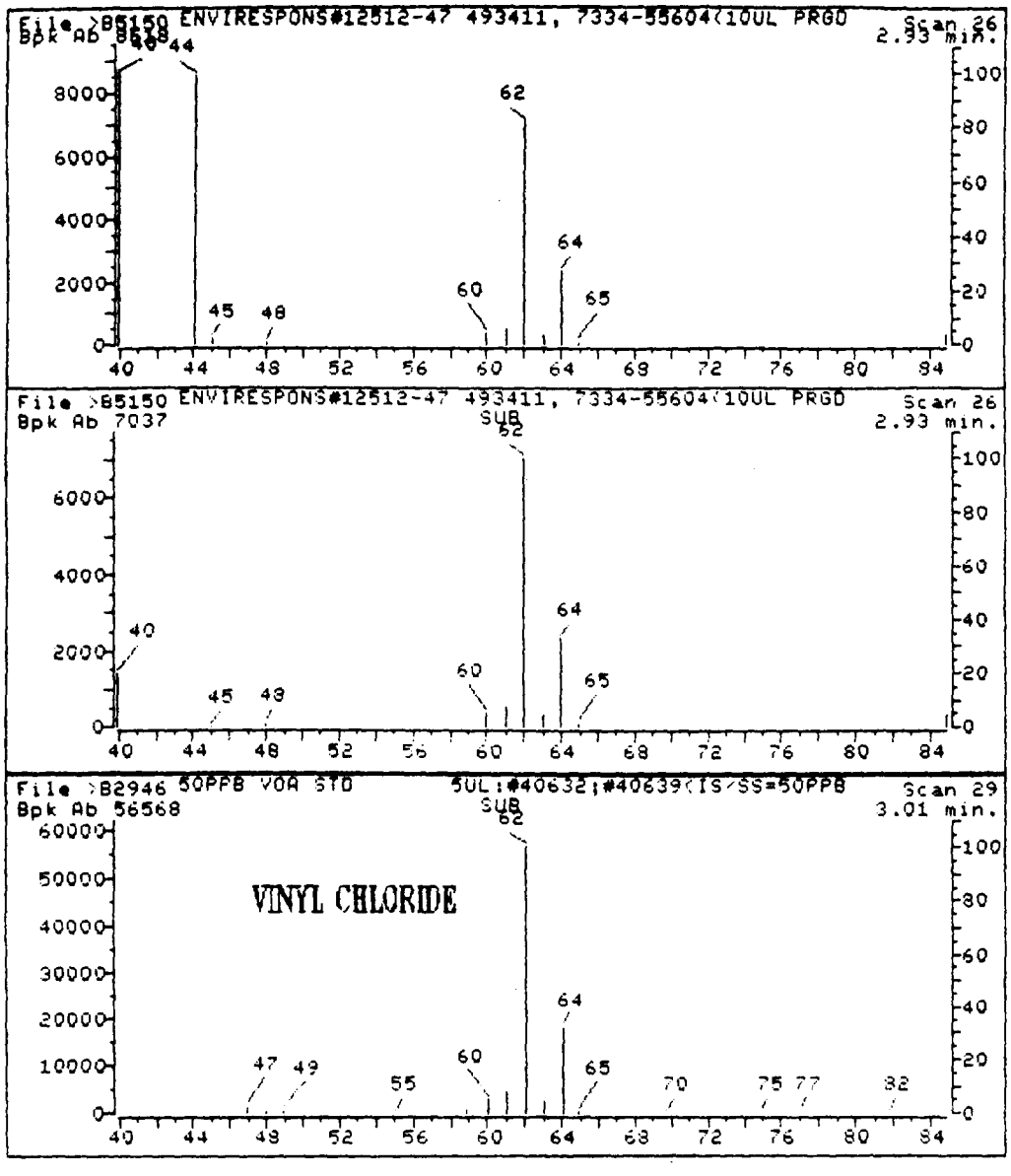
QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860923 02:50
Output File: ^PS150::AQ Injected at: 860923 02:01
Data File: >B5150::BB Dilution Factor: 500.000
Name: ENVIRESPONS#12512-47
Misc: 493411, 7334-55604(10UL PRGD.) IS,SS=50PPB(5UL#41036)

ID File: PPVID2::PS
Title: PRIORITY POLLUTANTS - METHOD 624
Last Calibration: 860923 00:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE(IS)	9.31	129	83633	50.00	ug/L	91
4)	VINYL CHLORIDE	2.93	26	62161	9797.03	ug/L	97
6)	METHYLENE CHLORIDE	5.84	73	43278	5504.46	ug/L	73
11)	1,1-DICHLOROETHANE	10.17	143	15148	1709.03	ug/L	67
12)	TRANS-1,2-DICHLOROETHENE	10.98	156	299007	52454.45	ug/L	80
14)	D4-1,2-DICHLOROETHANE(SS)	12.22	176	105448	24831.85	ug/L	100
16)	*1,4-DIFLUOROBENZENE(IS)	19.71	297	382410	50.00	ug/L	100
17)	1,1,1-TRICHLOROETHANE	13.52	197	37715	6295.66	ug/L	92
22)	TRICHLOROETHENE	16.67	248	209070	30269.76	ug/L	99
29)	*D5-CHLOROBENZENE(IS)	24.54	375	358806	50.00	ug/L	100
30)	TETRACHLOROETHENE	22.31	339	46987	9565.07	ug/L	97
32)	D8-TOLUENE(SS)	23.30	355	411830	23454.20	ug/L	99
33)	TOLUENE	23.55	359	53509	4648.66	ug/L	93
35)	ETHYLBENZENE	26.40	405	3293	498.39	ug/L	87
36)	4-BROMOFLUOROBENZENE(SS)	28.32	436	225760	25064.97	ug/L	96

* Compound is ISTD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SUB
Scan 26
2.93 min.
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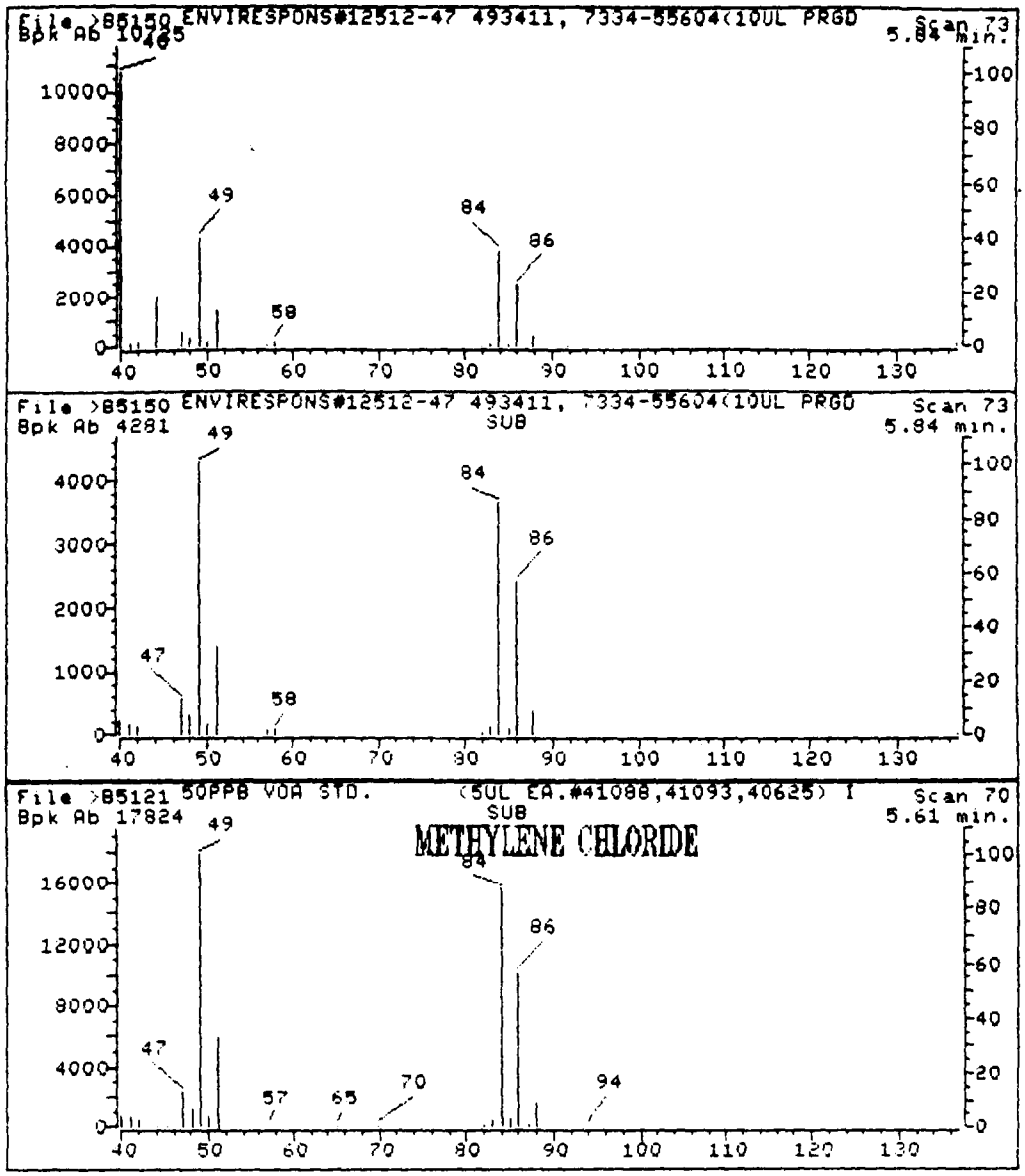
Bpk Ab 56568
SUB
Scan 29
3.01 min.
VINYL CHLORIDE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Scan 73
5.84 min.
49
84
86
58
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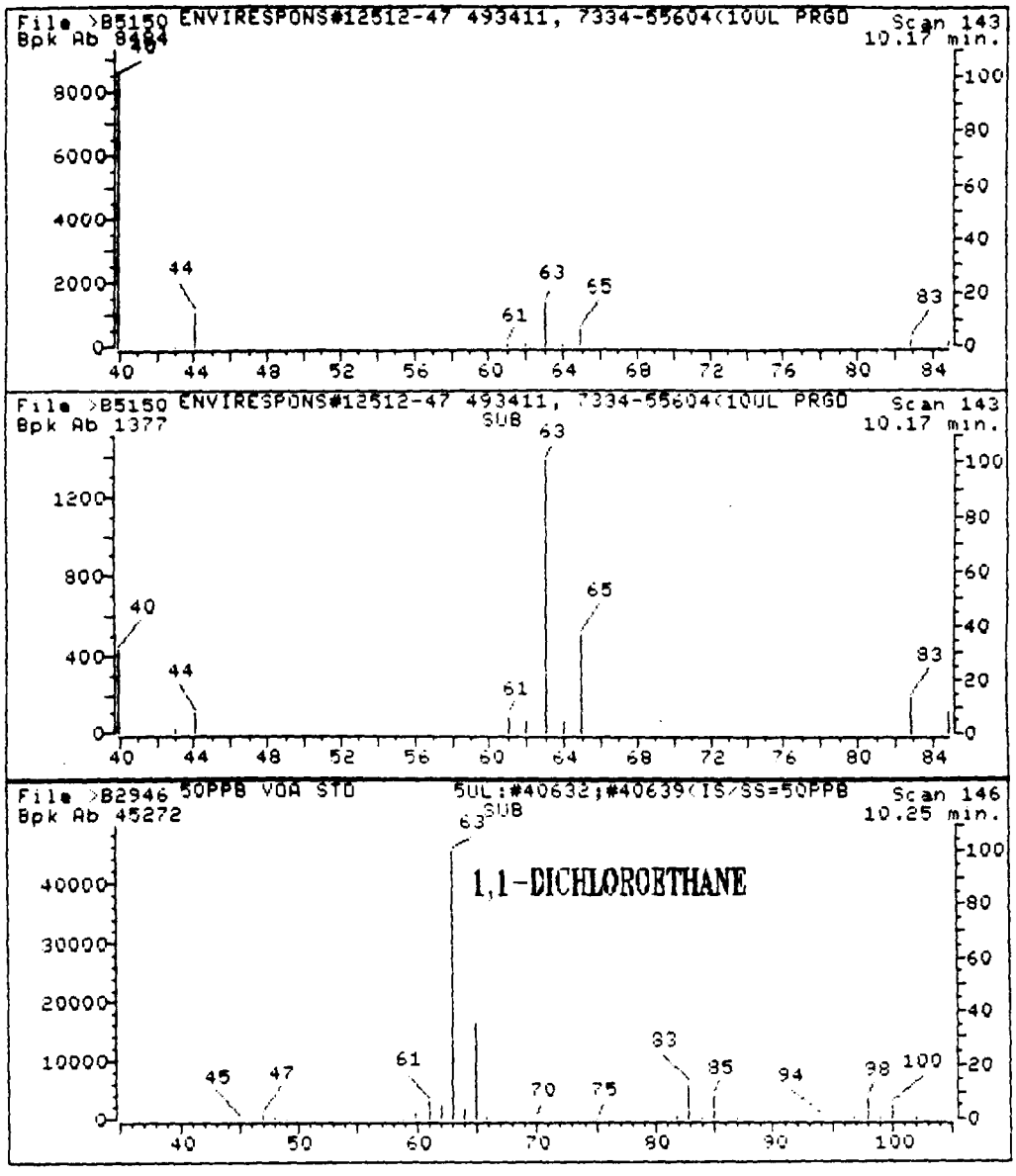
SUB
Bpk Ab 4281
Scan 73
5.84 min.
49
84
86
47
58
File >B5121 50PPB VOA STD. (5UL EA.#41088,41093,40625) I
SUB
Bpk Ab 17824
Scan 70
5.61 min.
METHYLENE CHLORIDE
49
84
86
47
57
65
70
94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SUB
Scan 143
10.17 min.
File >B2946 50PPB VOA STD
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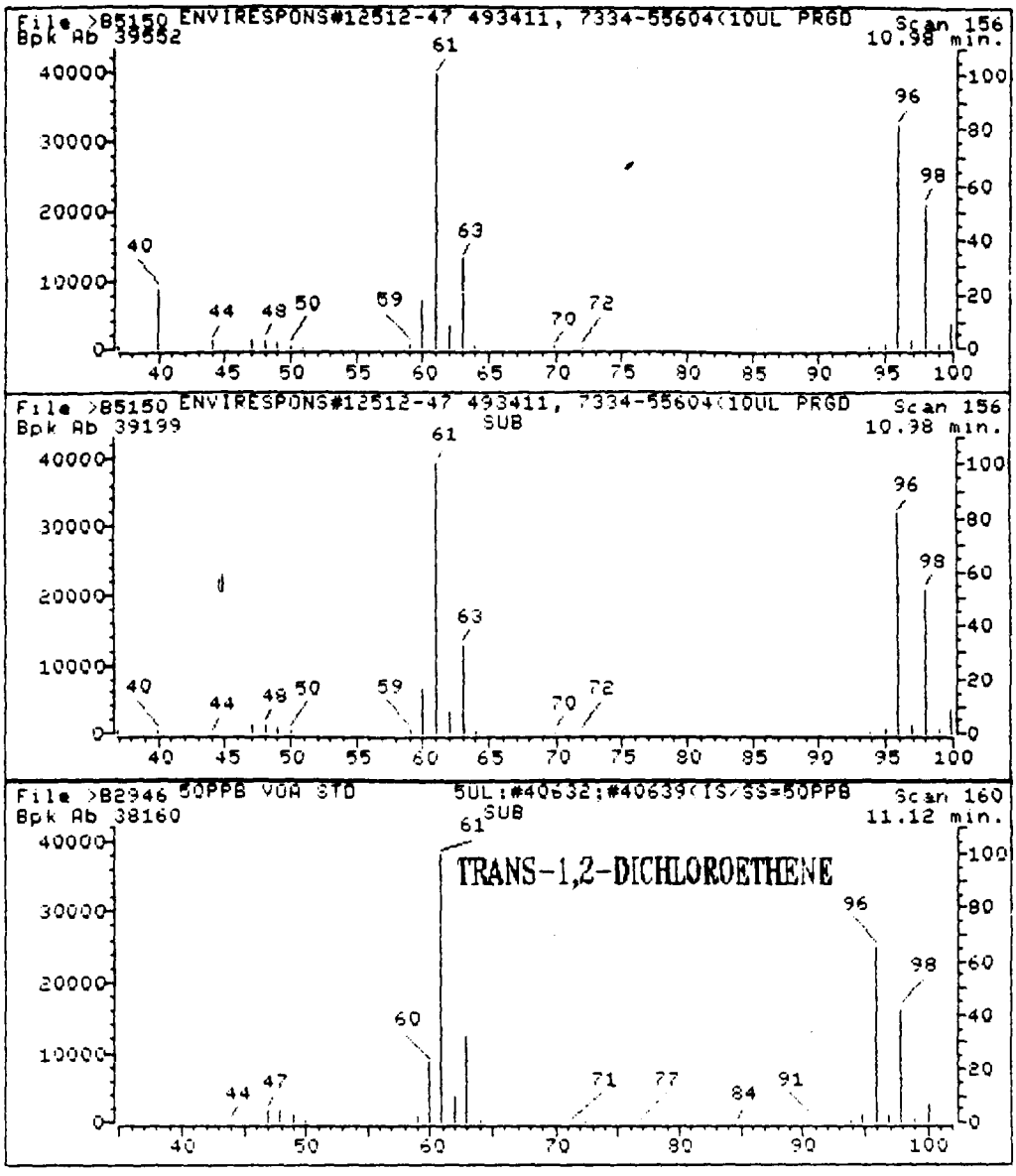
Bpk Ab 45272
SUB
Scan 146
10.25 min.
1,1-DICHLOROETHANE

10P.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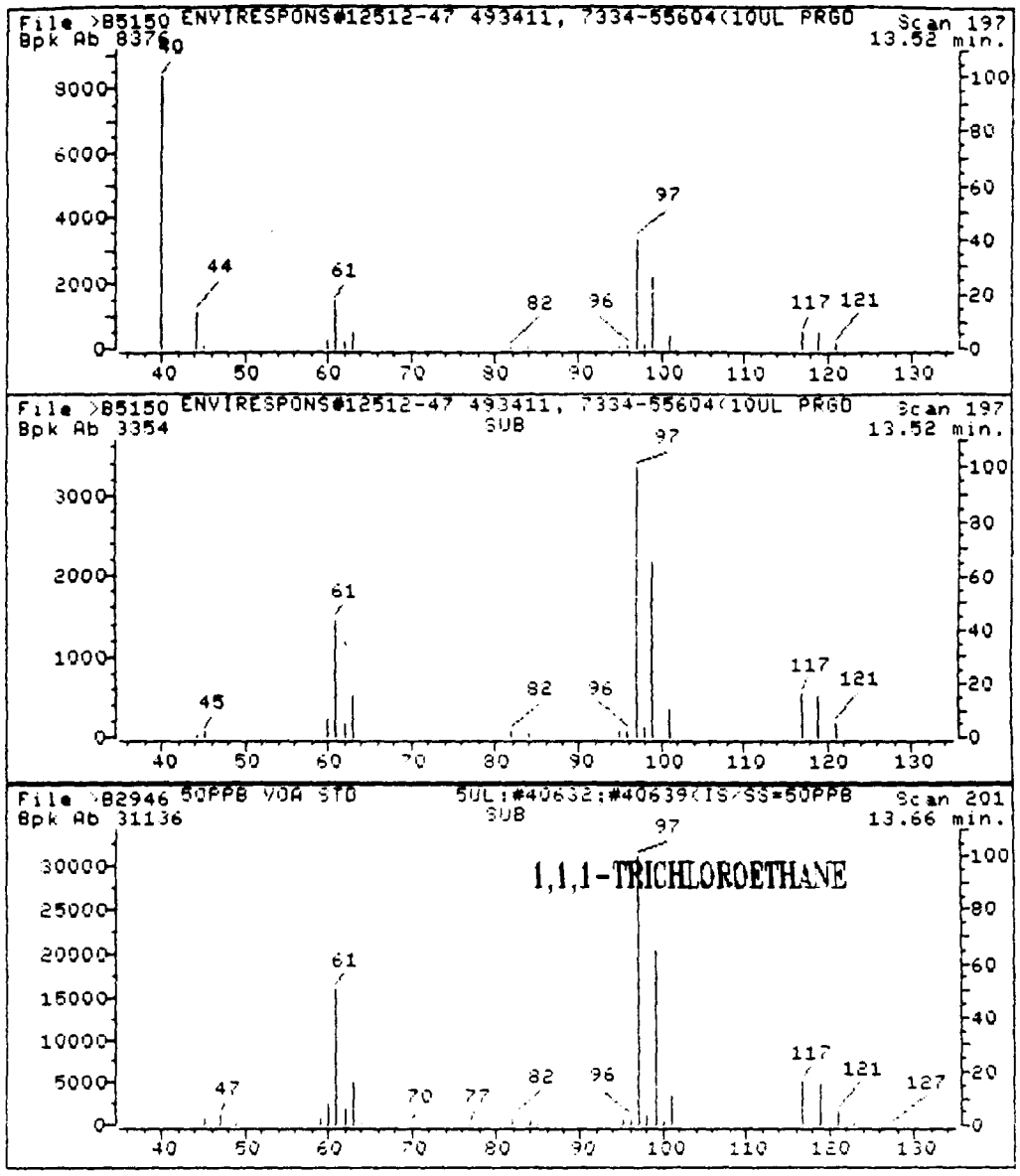
TRANS-1,2-DICHLOROETHENE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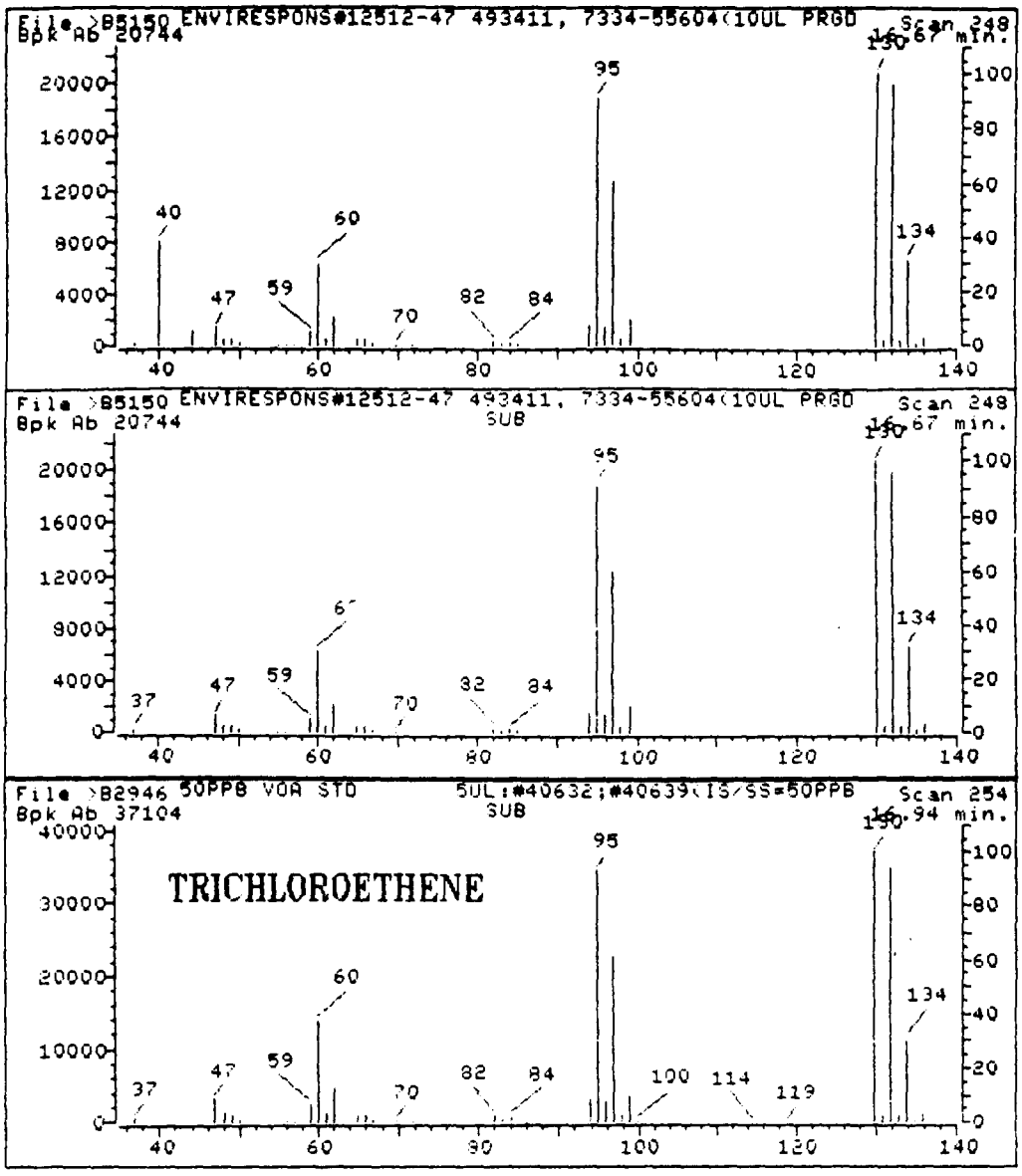
File >B5150 ENVIRESPONS#12512-47 493411, 7334-55604(10UL PRGD Scan 197
Bpk Ab 3354 SUB 13.52 min.
File >B2946 50PPB VOA STD 5UL:#40632:#40639(IS/SS=50PPB Scan 201
Bpk Ab 31136 SUB 13.66 min.
1,1,1-TRICHLOROETHANE

185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Scan 254
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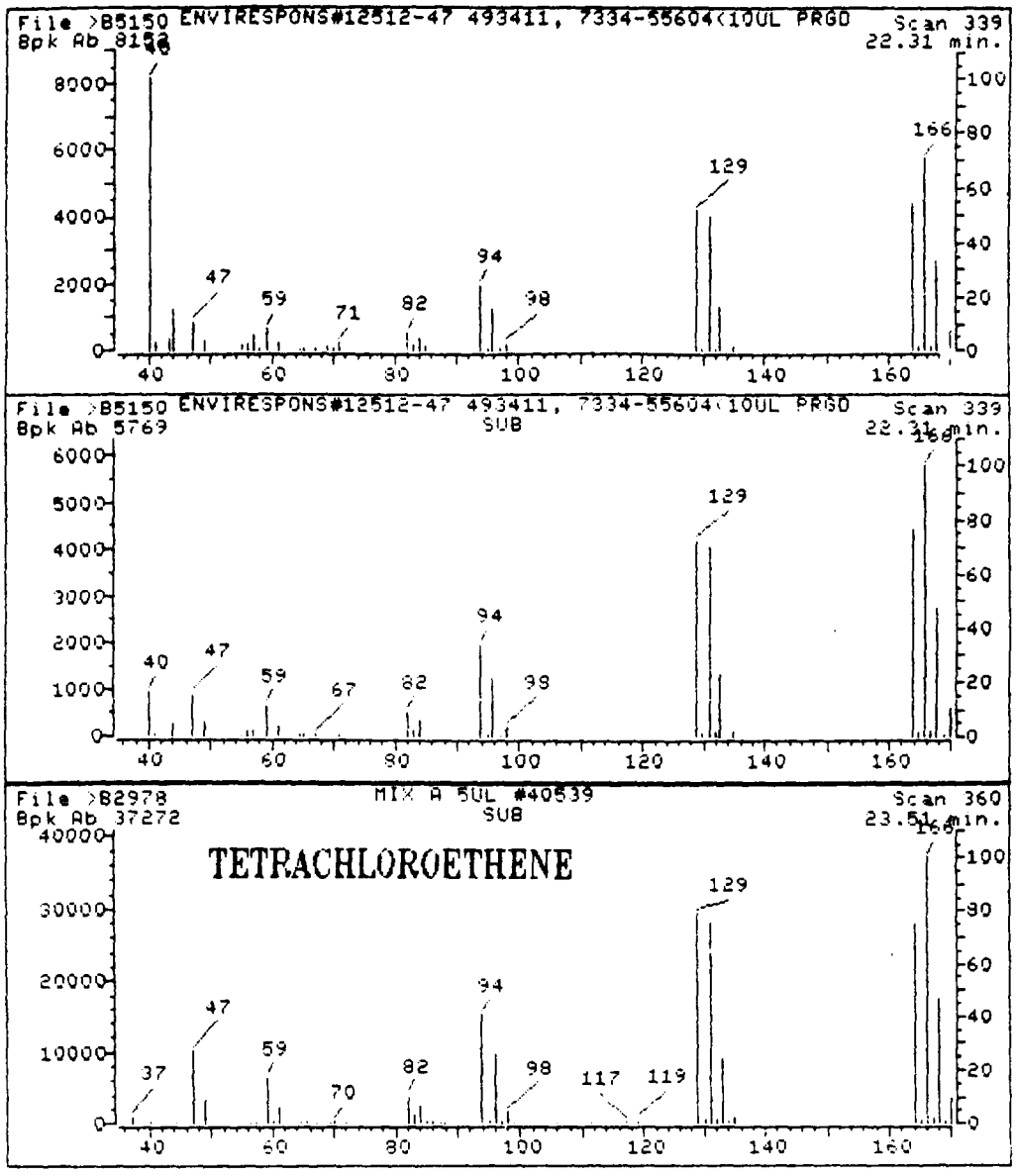
94 min.
TRICHLOROETHENE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Scan 339
Bpk Ab 5769
SUB
22.31 min.
File >B2978
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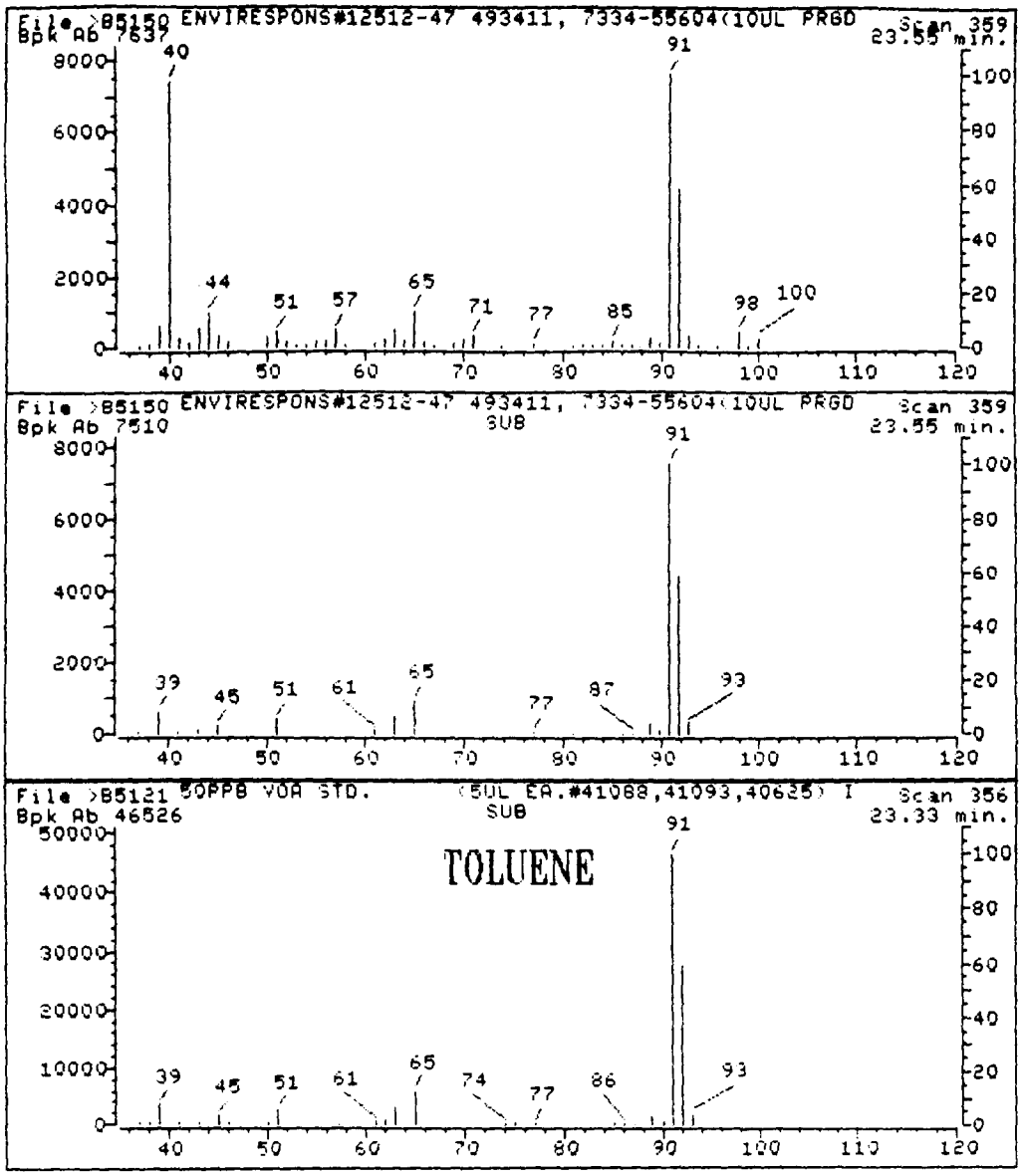
Scan 360
Bpk Ab 37272
SUB
23.51 min.
TETRACHLOROETHENE


File >B5150 ENVIRESPONS#12512-47 493411, 7334-55604(10UL PRGD
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Scan 359
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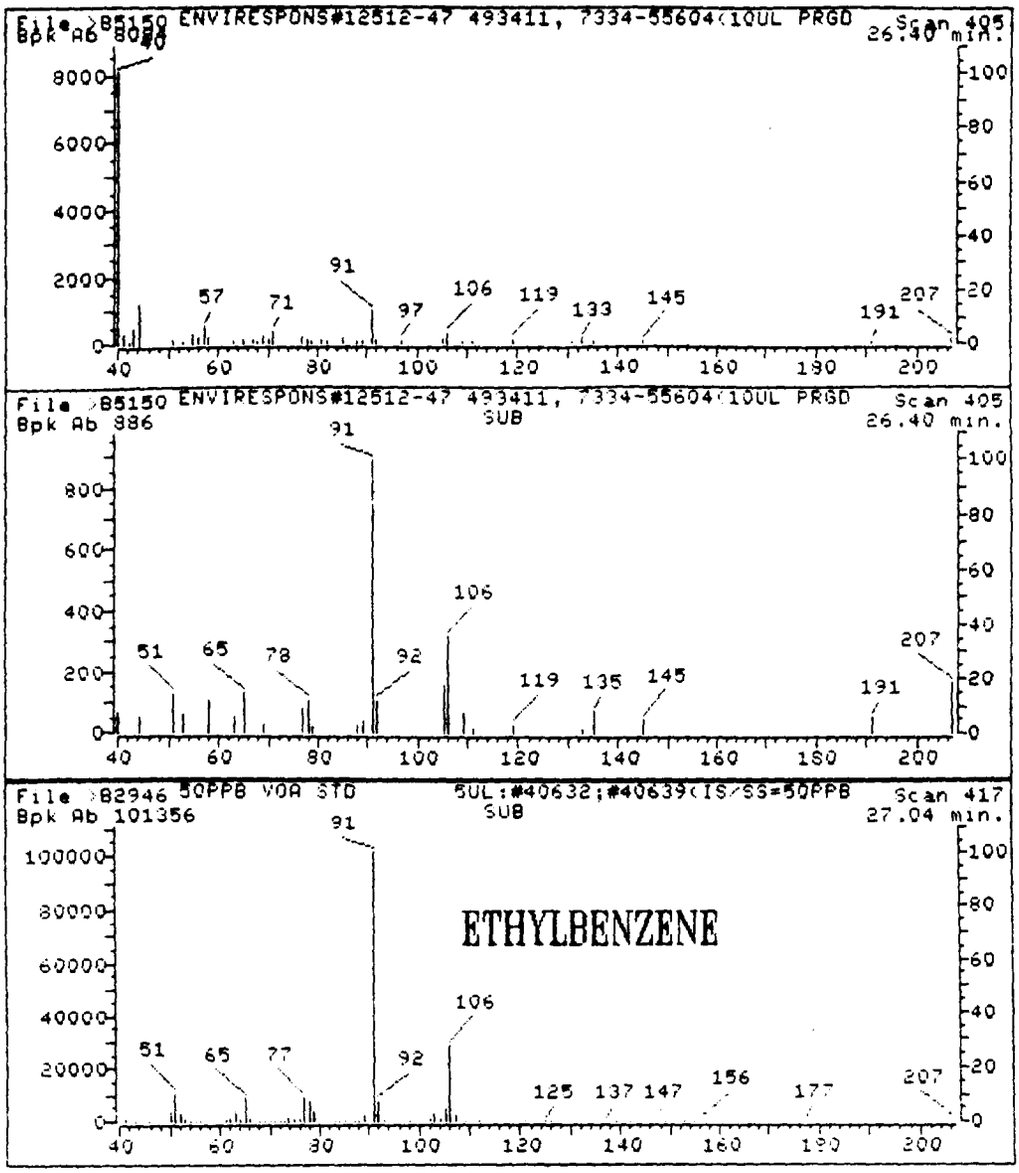
File >B5150 ENVIRESPONS#12512-47 493411, 7334-55604(10UL PRGD
Bpk Ab 7510
SUB
Scan 359
23.55 min.
File >B5121 50PPB VOA STD. (5UL EA.#41088,41093,40625) I
Bpk Ab 46526
SUB
Scan 356
23.33 min.
TOLUENE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File >B5150 ENVIRESPONS#12512-47 493411, 7334-55604(10UL PRGD Scan 405
SUB
Bpk Ab 886 26.40 min.
File >B2946 50PPB VOA STD 5UL:#40632;#40639(IS/SS=50PPB Scan 417
SUB
Bpk Ab 101356 27.04 min.
ETHYLBENZENE

2 2 0466

Sample Number
7334 (oil)

013-14

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: DAYTON ENVIRONMENTAL CONSULTANTS, INC.

Case No: Envirresponse

Lab Sample ID No: B5181 (493439)

QC Report No: NA

Sample Matrix: oil

Contract No: NA

Data Release Authorized By: [signature]

Date Sample Received: 9-18-86

Volatile Compounds

Concentration: Low (Medium) (Circle One)

Date Extracted/Prepared: 9-24-86

Date Analyzed: 9-24-86

Conc/(Dil Factor) 50 pH NA

Percent Moisture: (Not Decanted) NA

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	50000 U
74-83-9	Bromomethane	50000 U
75-01-4	Vinyl Chloride	290000
75-00-3	Chloroethane	50000 U
75-09-2	Methylene Chloride	670000 B
75-69-4	Trichlorofluoromethane	5000 N
75-35-4	1, 1-Dichloroethene	25000 U
75-34-3	1, 1-Dichloroethane	130000
156-60-5	Trans-1, 2-Dichloroethene	4200000
67-66-3	Chloroform	25000 U
107-06-2	1, 2-Dichloroethane	25000 U
71-55-6	1, 1, 1-Trichloroethane	1700000
56-23-5	Carbon Tetrachloride	25000 U
75-27-4	Bromodichloromethane	25000 U

CAS Number		ug/l or (ug/Kg) (Circle One)
78-87-5	1, 2-Dichloropropane	35000 N
10061-02-6	Trans-1, 3-Dichloropropene	25000 U
79-01-6	Trichloroethene	4800000
124-48-1	Dibromochloromethane	25000 U
79-00-5	1, 1, 2-Trichloroethane	25000 U
71-43-2	Benzene	25000 U
10061-01-5	cis-1, 3-Dichloropropene	25000 U
110-75-8	2-Chloroethylvinylether	50000 U
75-25-2	Bromoform	25000 U
127-18-4	Tetrachloroethene	4800000
79-34-5	1, 1, 2, 2-Tetrachloroethane	25000 U
108-88-3	Toluene	1300000
108-90-7	Chlorobenzene	25000 U
100-41-4	Ethylbenzene	230000 B
541-73-1	1, 3-Dichlorobenzene	75000 N
106-46-7	1, 4-Dichlorobenzene	75000 N
95-50-1	1, 2-Dichlorobenzene	35000 N

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit report the value

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action

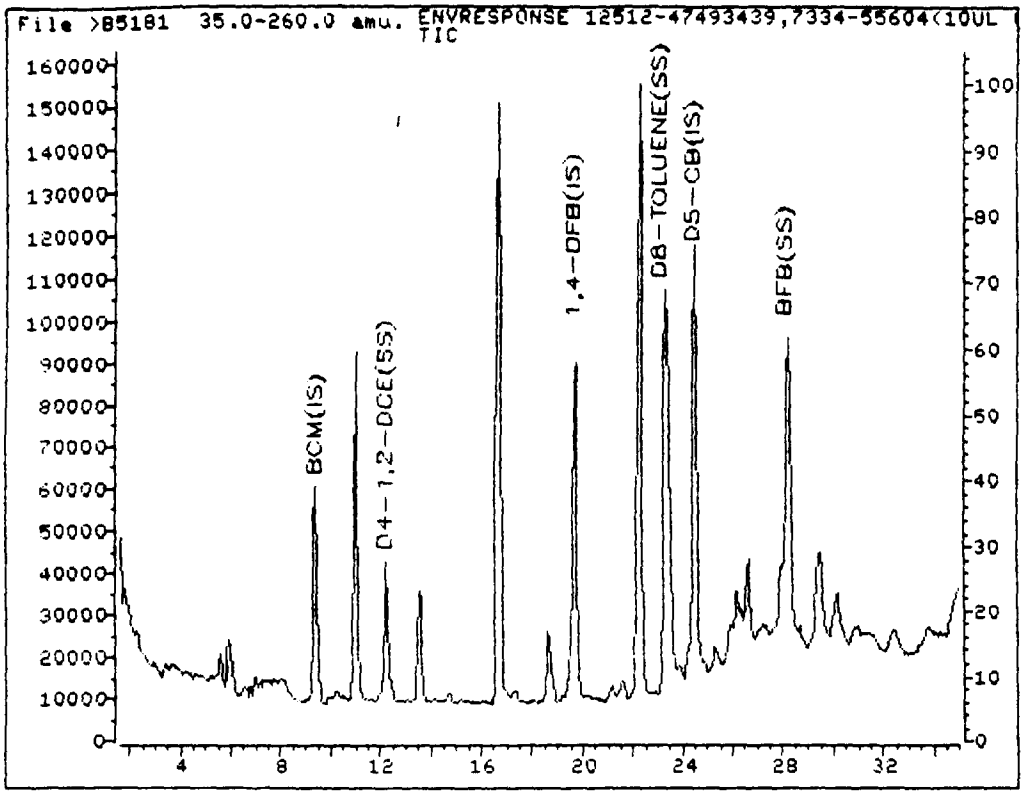
Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

M Matrix spike compound

N Instrument limit of detection

A Indicates a value less than the dilution corrected limit of detection but greater than the CRDL

014-10



MS data file header from : >B5181

Sample: ENVRESPONSE 12512-47 Operator: MIKE MS 9/24/86 12:10
Misc : 493439,7334-55604(10UL OF 1:50) IS,SS=50PPB(5UL#41036)
Sys. #: 20 MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: VOAME2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 0 Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

QUANT REPORT

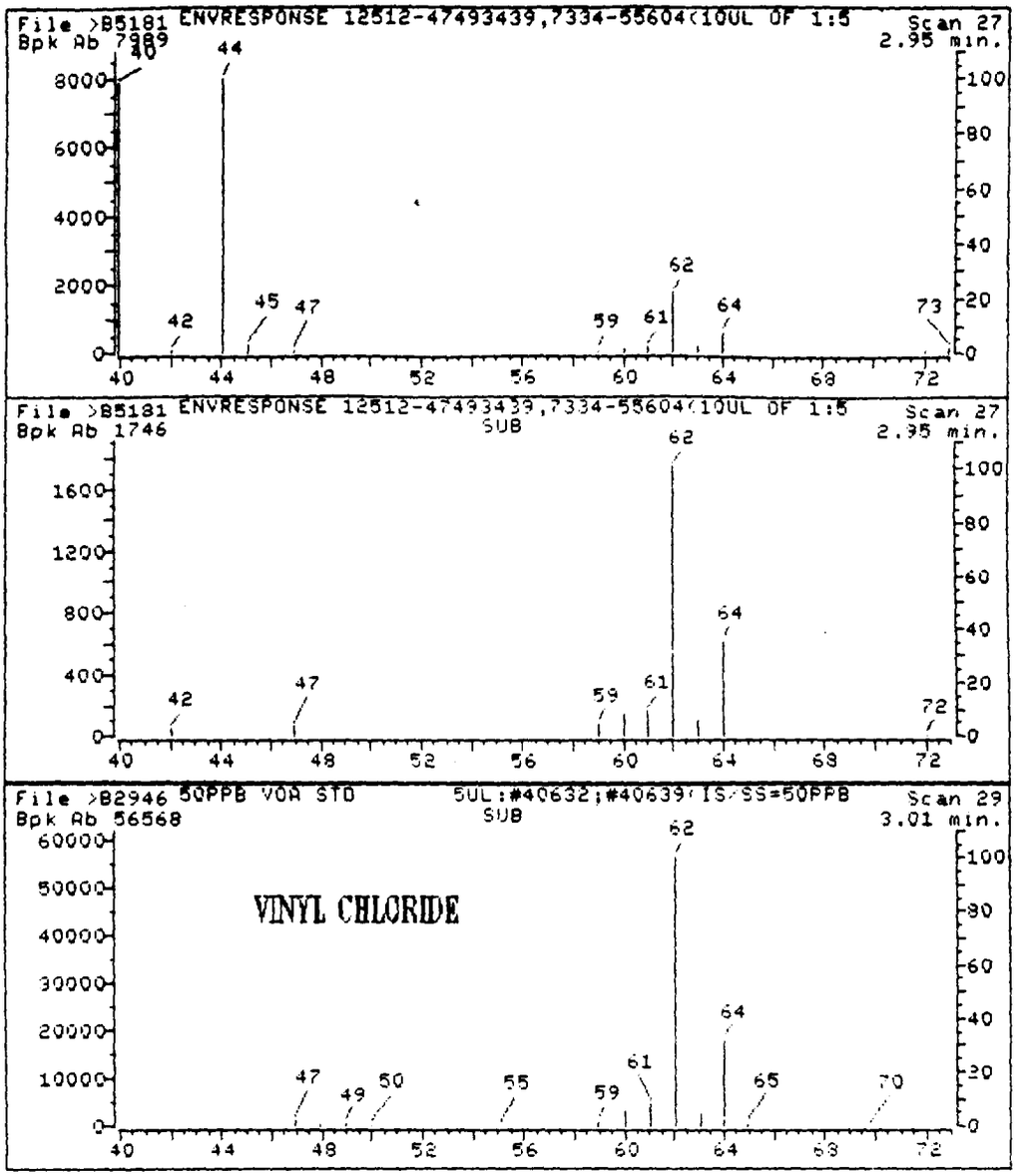
Operator ID: MIKE Quant Rev: 4 Quant Time: 860925 09:34
Output File: ^B5181::AQ Injected at: 860924 12:10
Data File: >B5181::BB Dilution Factor: 62500.00
Name: ENVRESPONSE 12512-47
Misc: 493439,7334-55604(10UL OF 1:50) IS,SS=50PPB(5UL#41036)

ID File: PPSID2::AA
Title: PRIORITY POLLUTANTS (SOILS)
Last Calibration: 860925 09:31

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE(IS)	9.39	131	79190	50.00	ug/Kg	86
4)	VINYL CHLORIDE	2.95	27	15554	290421.0	ug/Kg	99
6)	METHYLENE CHLORIDE	5.93	75	40414	665811.9	ug/Kg	77
11)	1,1-DICHLOROETHANE	10.26	145	10208	134305.7	ug/Kg	65
12)	TRANS-1,2-DICHLOROETHENE	11.00	157	196132	4180318.	ug/Kg	82
14)	D4-1,2-DICHLOROETHANE(SS)*	12.24	177	104497	2964407.	ug/Kg	100
16)	*1,4-DIFLUOROBENZENE(IS)	19.67	297	395484	50.00	ug/Kg	100
17)	1,1,1-TRICHLOROETHANE	13.54	198	99254	1703295.	ug/Kg	96
22)	TRICHLOROETHENE	16.70	249	289167	4820387.	ug/Kg	98
29)	*D5-CHLOROBENZENE(IS)	24.51	375	367171	50.00	ug/Kg	100
30)	TETRACHLOROETHENE	22.28	339	223618	4814670.	ug/Kg	97
32)	D8-TOLUENE(SS)*	23.33	356	402208	2708333.	ug/Kg	99
33)	TOLUENE	23.51	359	141359	1342761.	ug/Kg	92
35)	ETHYLBENZENE	26.36	405	14417	234288.7	ug/Kg	97
36)	4-BROMOFLUOROBENZENE(SS)*	28.29	436	217200	3076367.	ug/Kg	95

* Compound is ISTD

016-22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Scan 27
2.95 min.
Bpk Ab 1746
SUB
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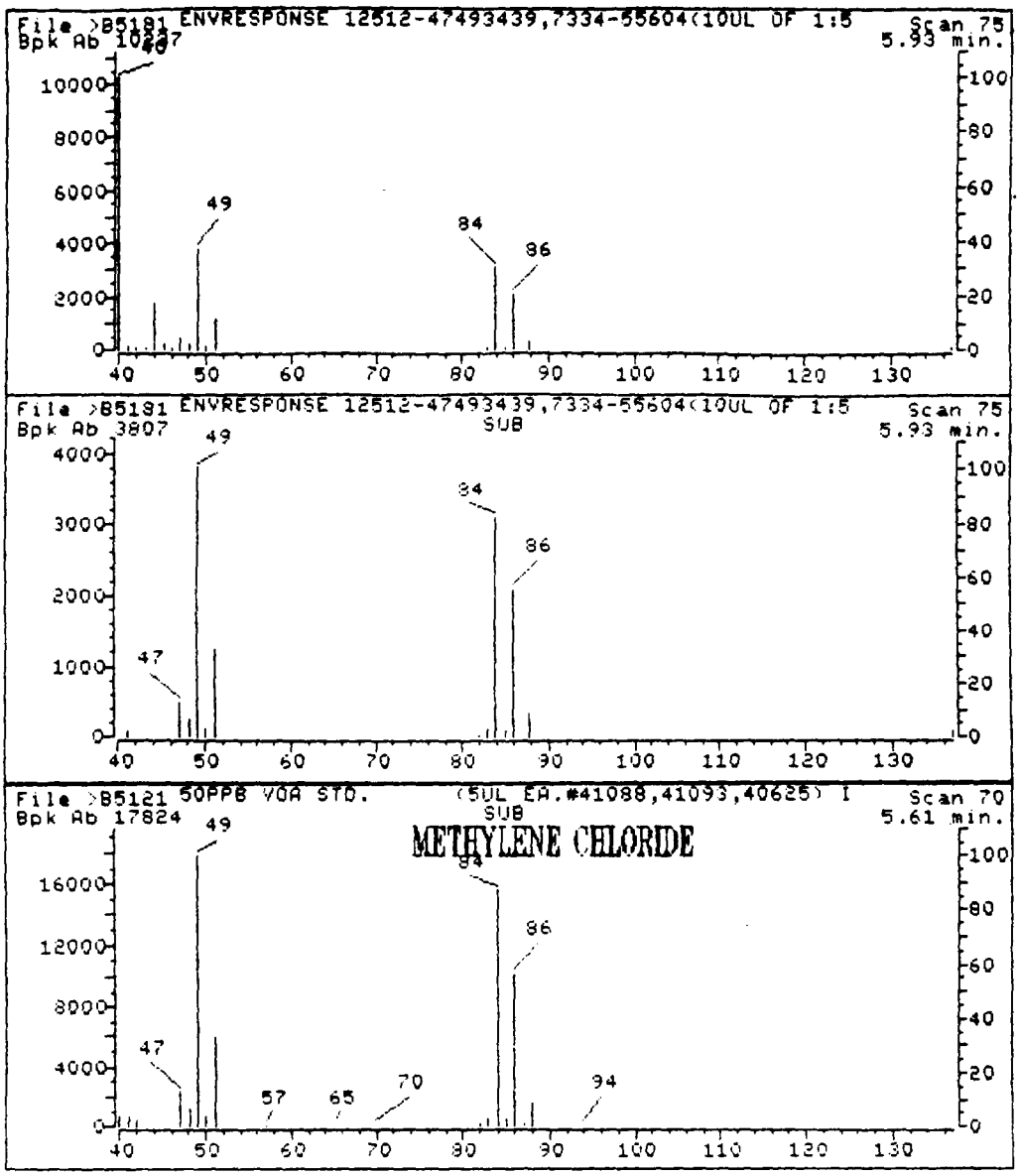
5UL:#40632;#40639(IS/SS=50PPB
Scan 29
3.01 min.
Bpk Ab 56568
SUB
VINYL CHLORIDE

18

016-23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Bpk Ab 10407
49
84
86
File >B5181 ENVRESPONSE 12512-47493439,7334-55604(10UL OF 1:5
SUB
Scan 75
5.93 min.
Bpk Ab 3807
49
84
86
47
File >B5121 50PPB VOA STD. (5UL EA.#41088,41093,40625) I
SUB
Scan 70
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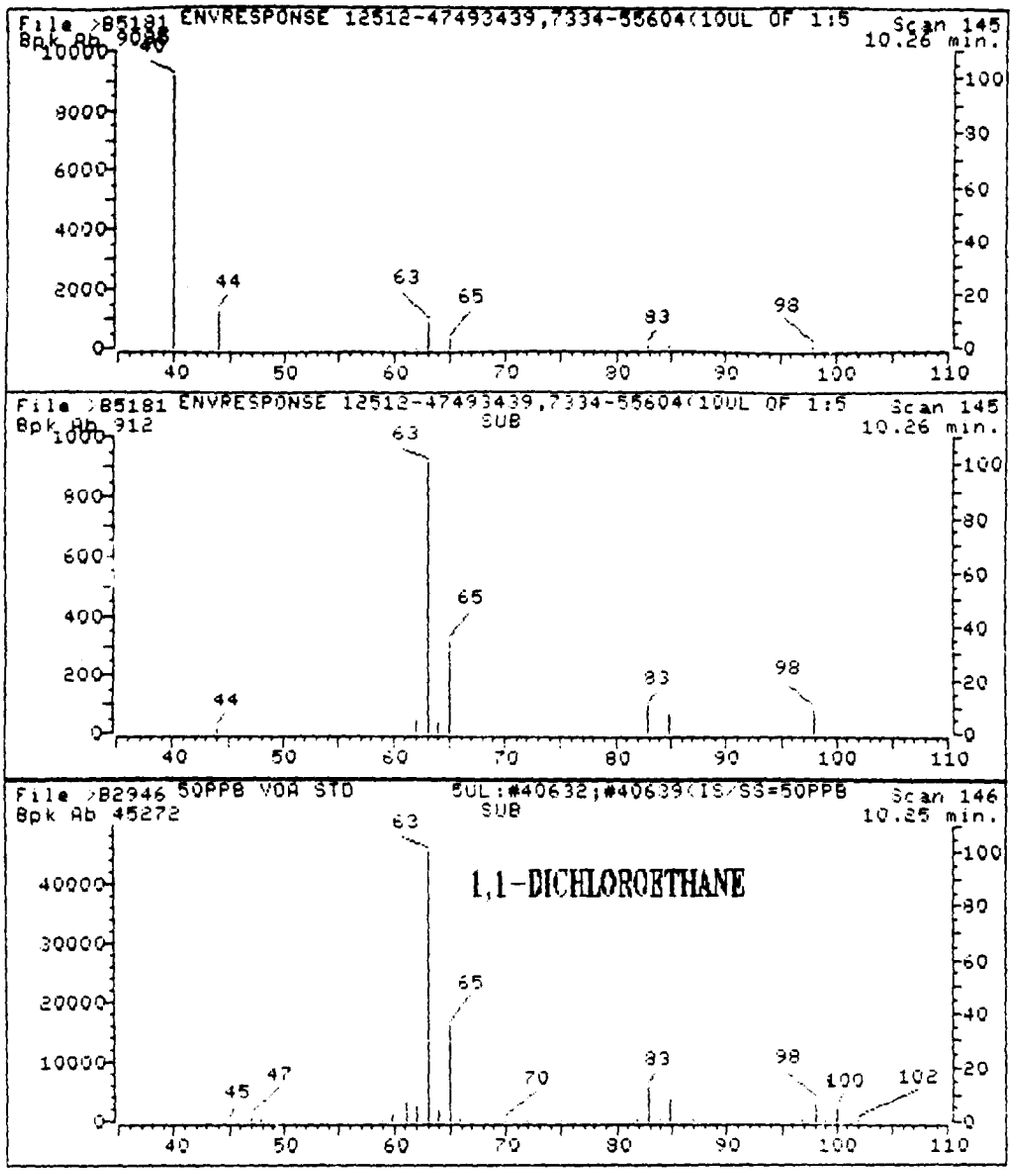
Bpk Ab 17824
METHYLENE CHLORIDE
49
84
86
47
57
65
70
94

016-24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44
63
65
83
98
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SUB
Scan 145
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Bpk Ab 912
63
65
44
83
98
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SUL:#40632;#40639(IS/SS=50PPB
SUB
Scan 146
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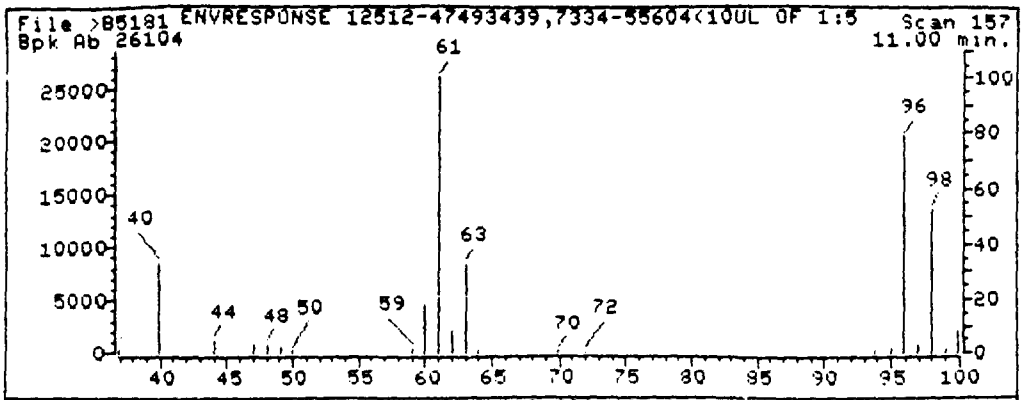
Bpk Ab 45272
63
1,1-DICHLOROETHANE
65
45
47
70
83
98
100
102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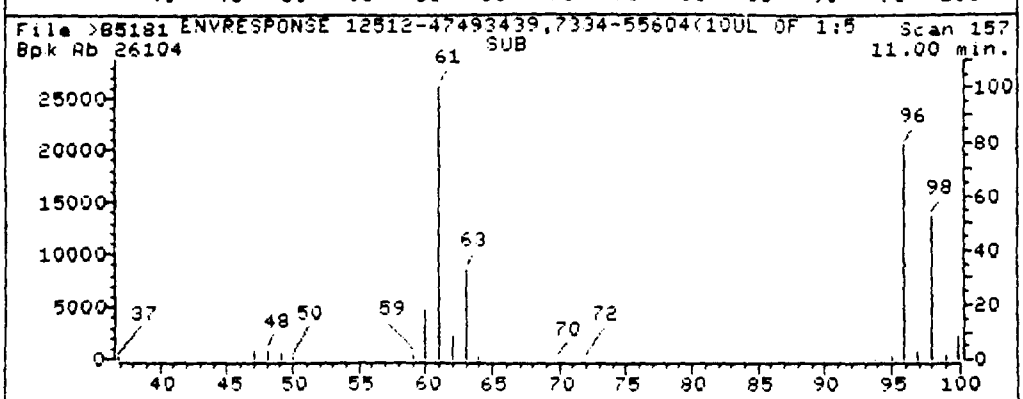
11.00 min.
61
96
98
40
63
44
48
50
59
70
72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SUB
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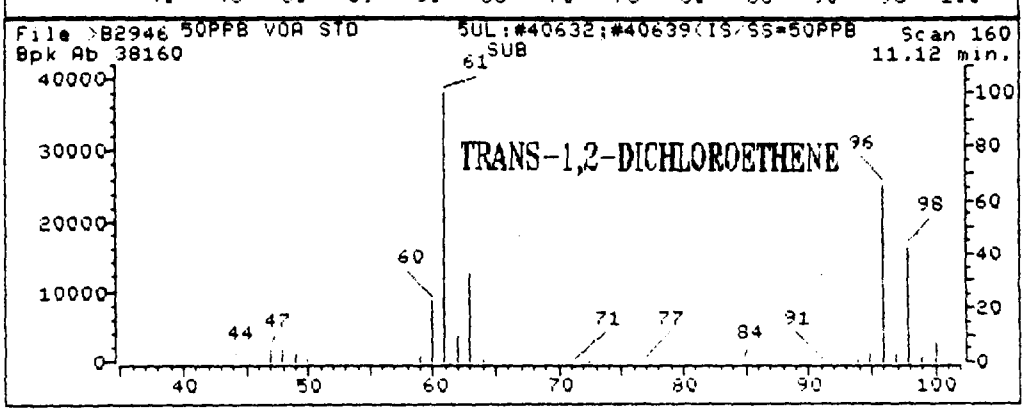
96
98
63
37
48
50
59
70
72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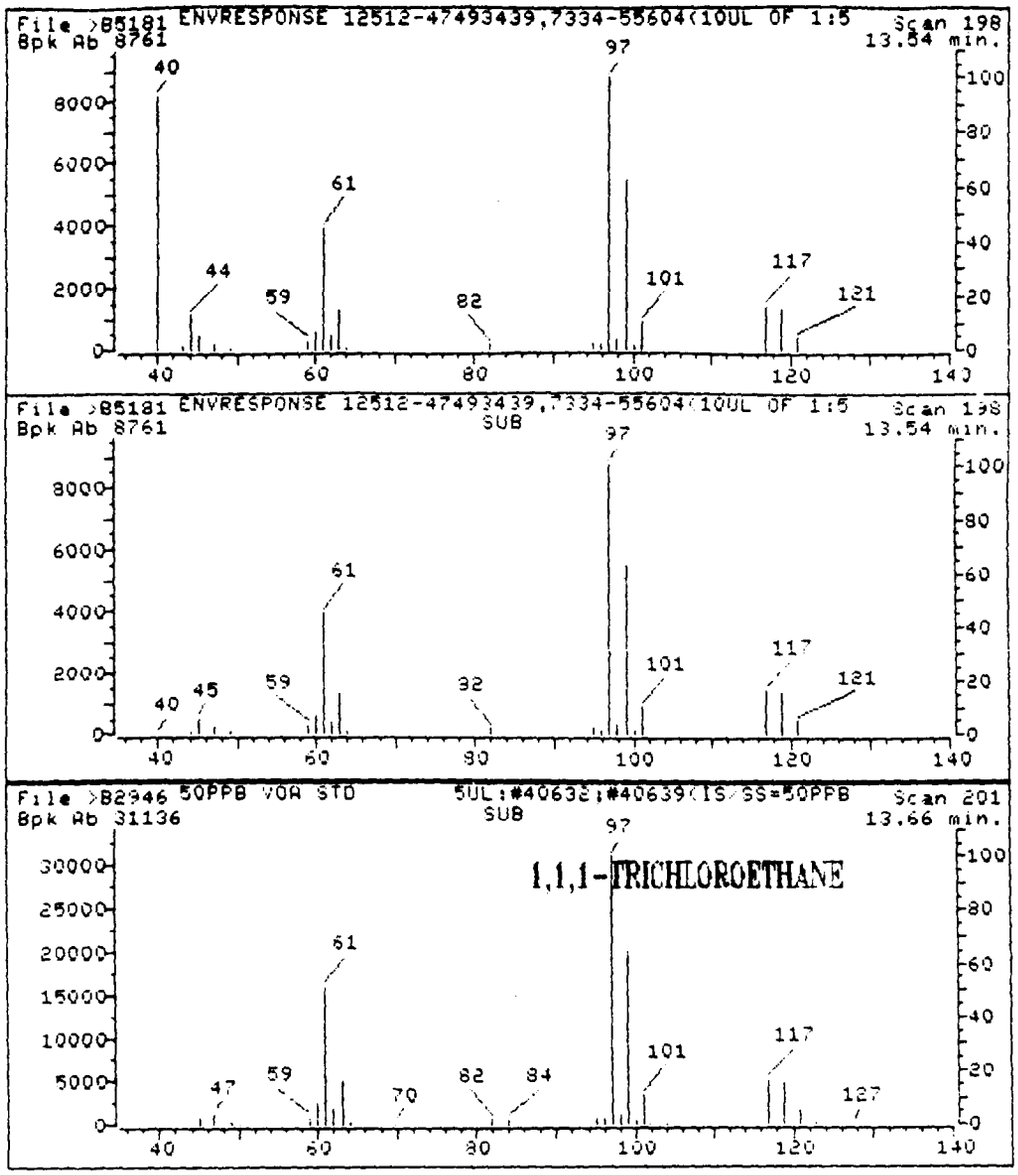
SUB
Scan 160
Bpk Ab 38160
11.12 min.
61
TRANS-1,2-DICHLOROETHENE
96
98
60
44
47
71
77
84
91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13.54 min.
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SUB
Scan 198
Bpk Ab 8761
13.54 min.
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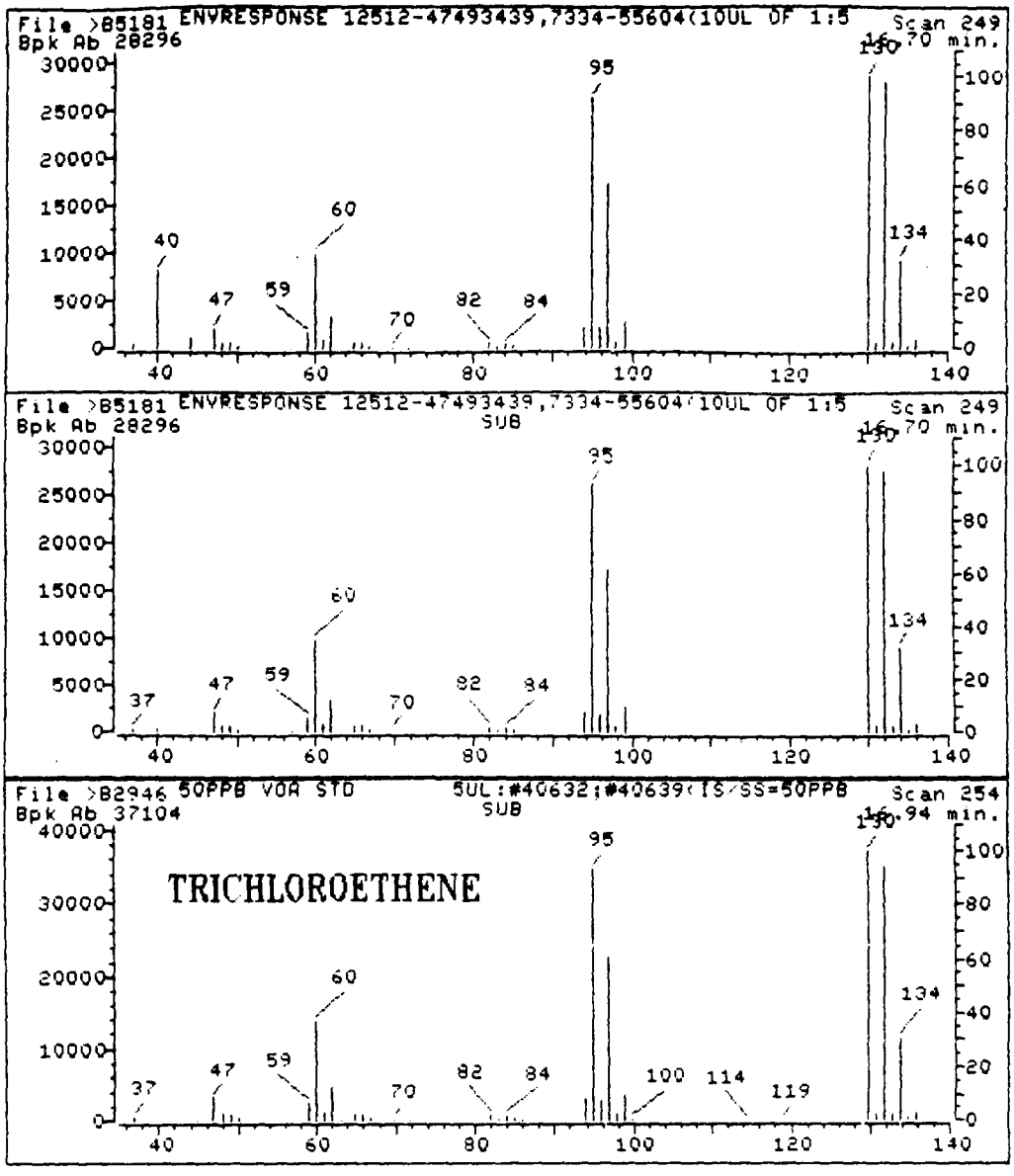
SUB
Scan 201
Bpk Ab 31136
13.66 min.
1,1,1-TRICHLOROETHANE

Inf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Scan 249
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70 min.
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SUB
Scan 249
Bpk Ab 28296
70 min.
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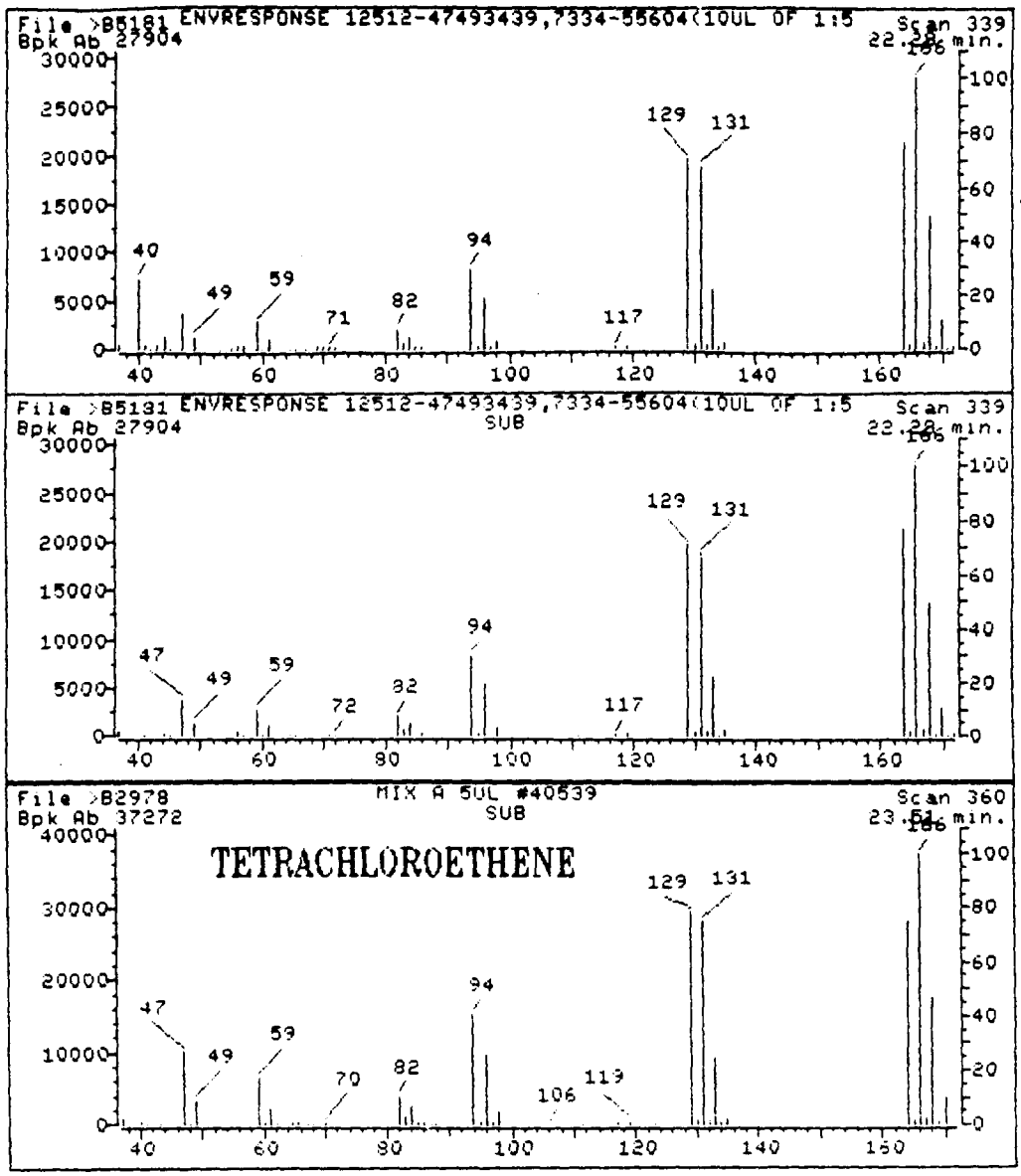
5UL:#40632;#40639(IS/SS=50PPB
SUB
Scan 254
Bpk Ab 37104
94 min.
TRICHLOROETHENE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40
49
59
71
82
94
117
129
131
166
File >B5131 ENVRESPONSE 12512-47493439,7334-55604(10UL OF 1:5
SUB
Scan 339
Bpk Ab 27904
22.28 min.
47
49
59
72
82
94
117
129
131
166
File >B2978
MIX A 5UL #40539
SUB
Scan 360
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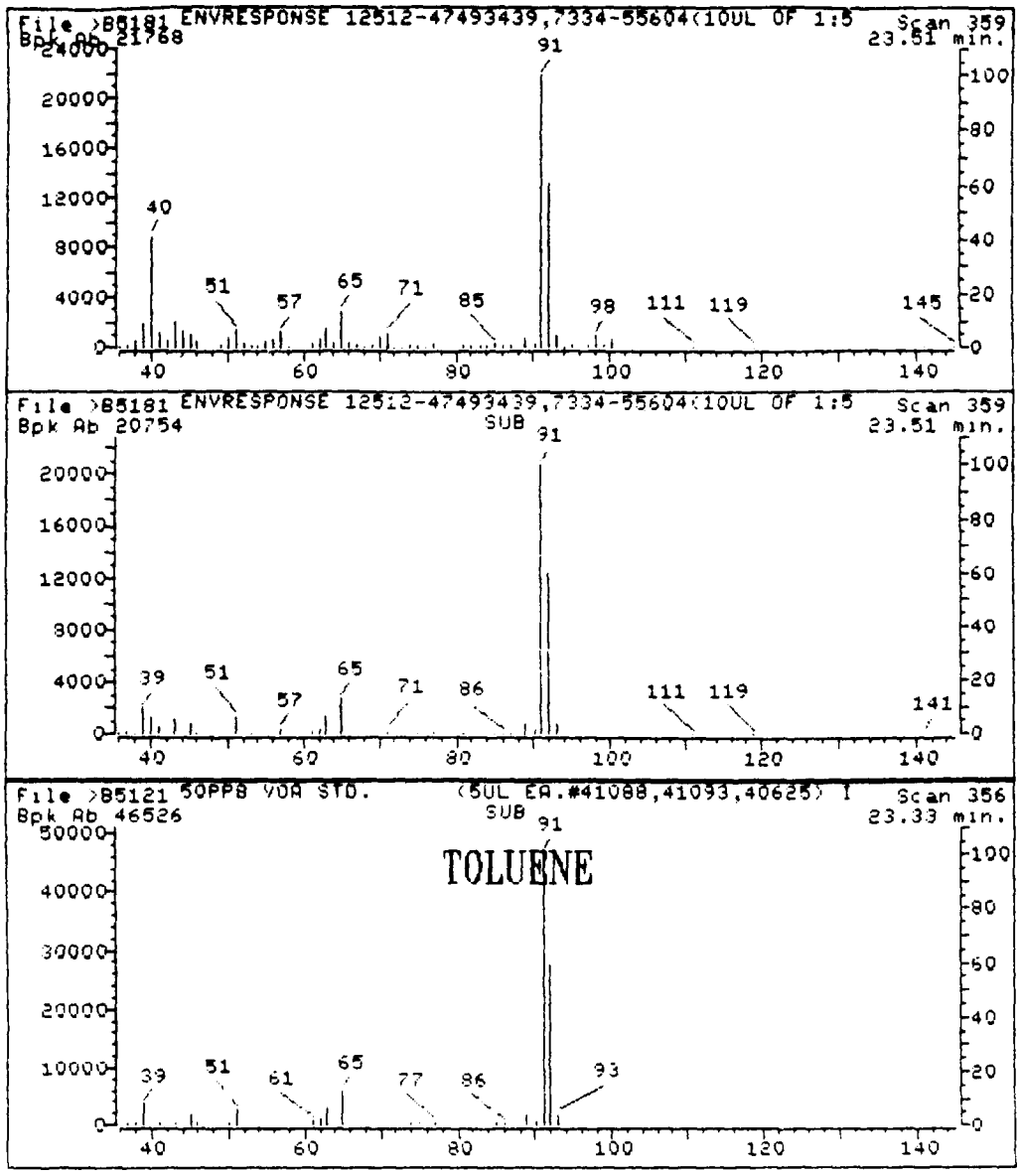
23.51 min.
TETRACHLOROETHENE
47
49
59
70
82
94
106
113
129
131
166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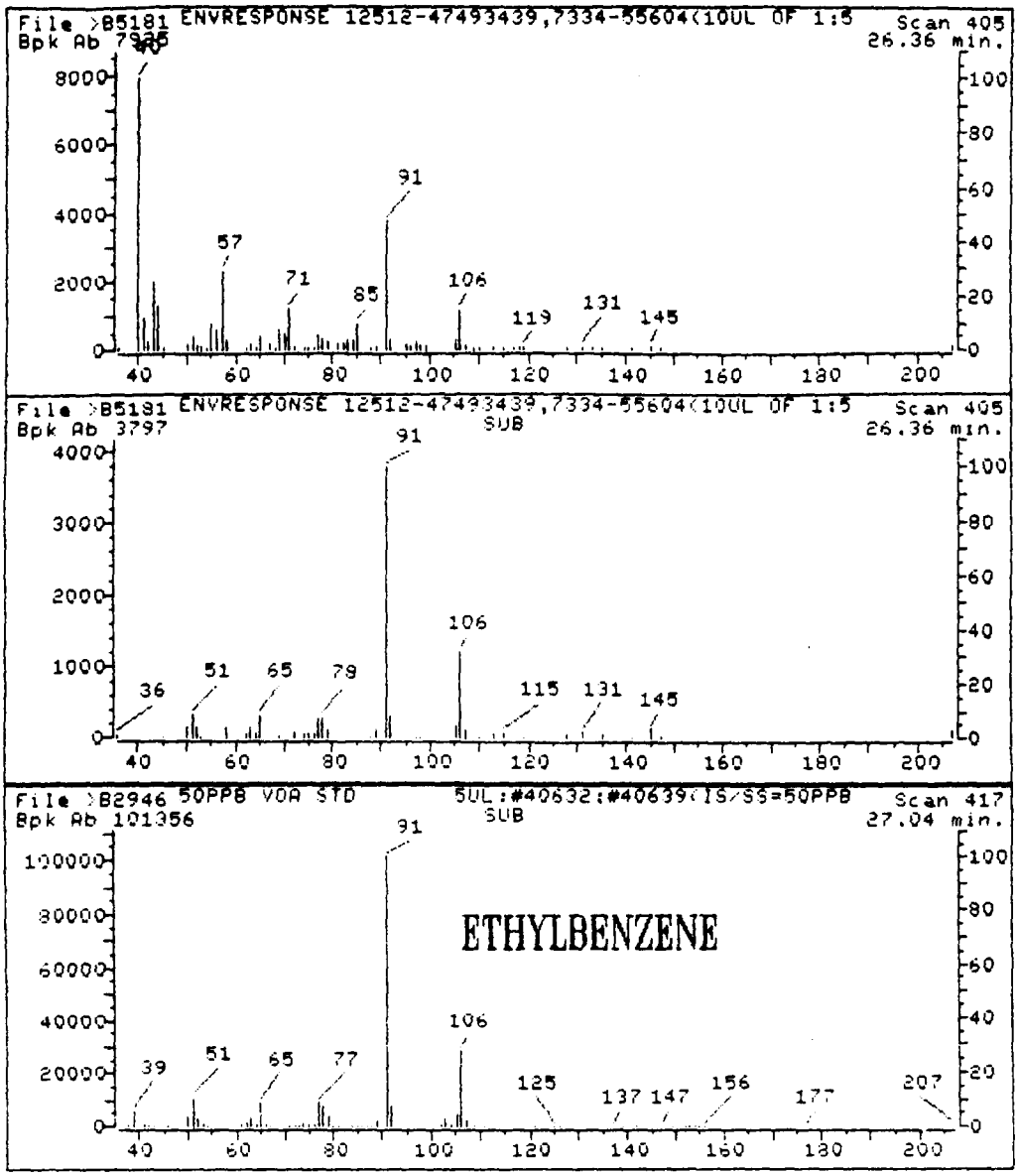
23.51 min.
File >B5181 ENVRESPONSE 12512-47493439,7334-55604(10UL OF 1:5 Scan 359
Bpk Ab 20754
SUB
23.51 min.
File >B5121 50PPB VOA STD. (5UL EA.#41088,41093,40625) I Scan 356
Bpk Ab 46526
SUB
23.33 min.
TOLUENE

016-30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Scan 405
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91
57
71
85
106
119
131
145
File >B5181 ENVRESPONSE 12512-47493439,7334-55604(10UL OF 1:5
SUB
Scan 405
Bpk Ab 3797
26.36 min.
91
106
36
51
65
79
115
131
145
File >B2946 50PPB VOA STD
5UL:#40632:#40639(IS/SS=50PPB
SUB
Scan 417
Bpk Ab 101356
27.04 min.
91
ETHYLBENZENE
106
39
51
65
77
125
137
147
156
177
207

2 2 0478

Sample Number
7334-DUP(0.1)

013-17

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CLAYTON ENVIRONMENTAL CONSULTANTS, INC. Case No: Enviresponse

Lab Sample ID No: B5182 (493439 Dup) QC Report No: NA

Sample Matrix: oil Contract No: NA

Data Release Authorized By: [signature] Date Sample Received: 9-18-86

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9-24-86

Date Analyzed: 9-24-86

Conc/Dil Factor: 50 pH NA

Percent Moisture: (Not Decanted) NA

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	50000 U
74-83-9	Bromomethane	50000 U
75-01-4	Vinyl Chloride	300000
75-00-3	Chloroethane	50000 U
75-09-2	Methylene Chloride	570000 B
75-69-4	Trichlorofluoromethane	5000 N
75-35-4	1, 1-Dichloroethene	25000 U
75-34-3	1, 1-Dichloroethane	130000
156-60-5	Trans-1, 2-Dichloroethene	4000000
67-66-3	Chloroform	25000 U
107-06-2	1, 2-Dichloroethane	25000 U
71-55-6	1, 1, 1-Trichloroethane	1700000
56-23-5	Carbon Tetrachloride	25000 U
75-27-4	Bromodichloromethane	25000 U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	35000 N
10061-02-6	Trans-1, 3-Dichloropropene	25000 U
79-01-6	Trichloroethene	4900000
124-48-1	Dibromochloromethane	25000 U
79-00-5	1, 1, 2-Trichloroethane	25000 U
71-43-2	Benzene	25000 U
10061-01-5	cis-1, 3-Dichloropropene	25000 U
110-75-8	2-Chloroethylvinylether	50000 U
75-25-2	Bromoform	25000 U
127-18-4	Tetrachloroethene	5600000
79-34-5	1, 1, 2, 2-Tetrachloroethane	25000 U
108-88-3	Toluene	1400000
108-90-7	Chlorobenzene	25000 U
100-41-4	Ethylbenzene	270000 B
541-73-1	1, 3-Dichlorobenzene	75000 N
106-46-7	1, 4-Dichlorobenzene	75000 N
95-50-1	1, 2-Dichlorobenzene	35000 N

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action

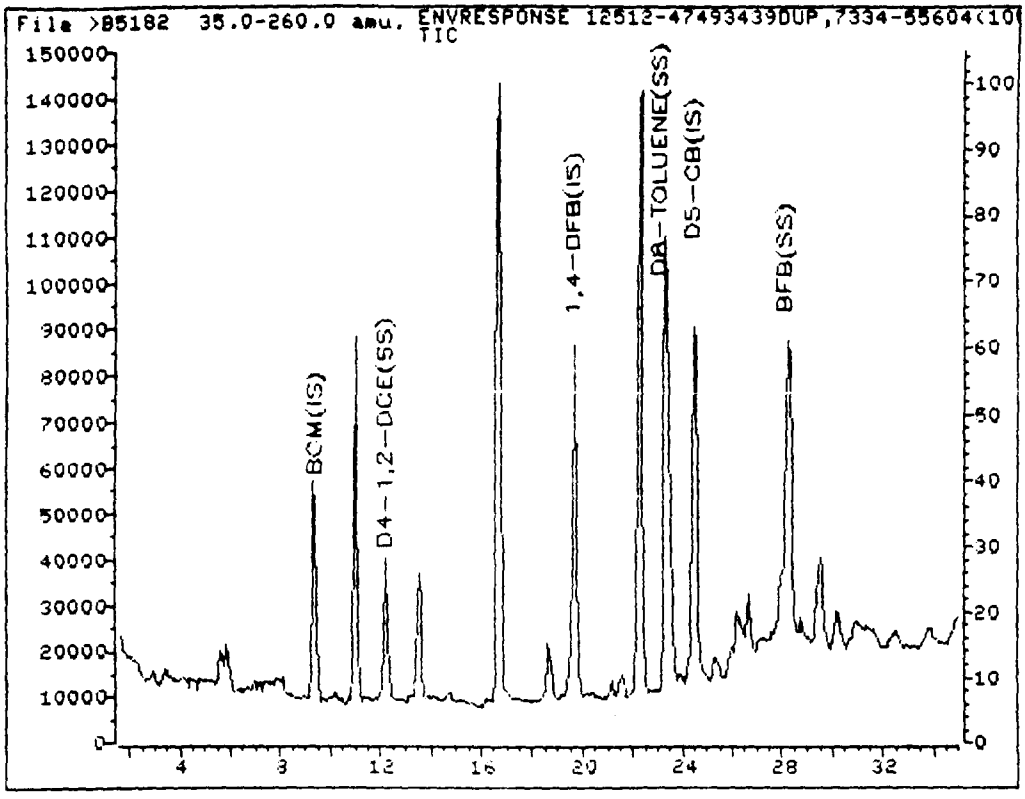
Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

M Matrix spike compound

N Instrument limit of detection

149A Indicates a value less than the dilution corrected limit of detection but greater than the CRDL

014-12



MS data file header from : >B5182

Sample: ENVRESPONSE 12512-47 Operator: MIKE MS 9/24/86 13:56
Misc : 493439DUP,7334-55604(10UL OF 1:50) IS,SS=50PPB(5UL#410
Sys. #: 20 MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: VOAME2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 0 Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

QUANT REPORT

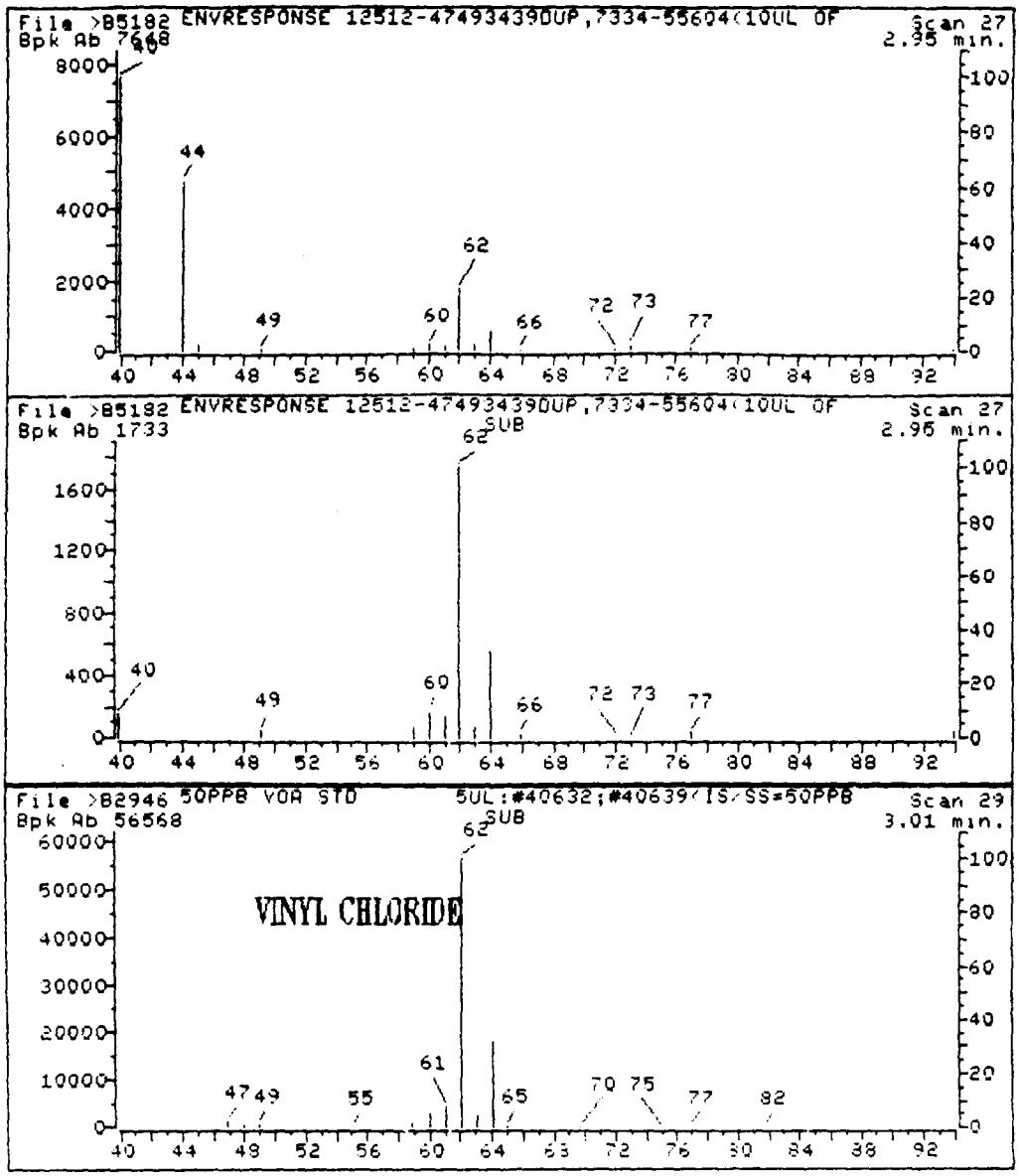
Operator ID: MIKE Quant Rev: 4 Quant Time: 860925 09:36
Output File: ^B5182::AQ Injected at: 860924 13:56
Data File: >B5182::BB Dilution Factor: 62500.00
Name: ENVRESPONSE 12512-47
Misc: 493439DUP,7334-55604(10UL OF 1:50) IS,SS=50PPB(5UL#410

ID File: PPSID2::AA
Title: PRIORITY POLLUTANTS (SOILS)
Last Calibration: 860925 09:31

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE(IS)	9.33	130	77715	50.00	ug/Kg	89
4)	VINYL CHLORIDE	2.95	27	15673	298197.2	ug/Kg	95
6)	METHYLENE CHLORIDE	5.86	74	33698	565704.1	ug/Kg	74
11)	1,1-DICHLOROETHANE	10.20	144	9435	126491.5	ug/Kg	66
12)	TRANS-1,2-DICHLOROETHENE	11.00	157	182008	3952909.	ug/Kg	81
14)	D4-1,2-DICHLOROETHANE(SS)→	12.24	177	101500	2934036.	ug/Kg	100
16)	*1,4-DIFLUOROBENZENE(IS)	19.67	297	383302	50.00	ug/Kg	100
17)	1,1,1-TRICHLOROETHANE	13.54	198	98468	1743512.	ug/Kg	94
22)	TRICHLOROETHENE	16.70	249	283884	4882722.	ug/Kg	97
29)	*D5-CHLOROBENZENE(IS)	24.50	375	306459	50.00	ug/Kg	100
30)	TETRACHLOROETHENE	22.27	339	215524	5559700.	ug/Kg	97
32)	D8-TOLUENE(SS)→	23.33	356	393980	3178496.	ug/Kg	99
33)	TOLUENE	23.51	359	124988	1422459.	ug/Kg	93
35)	ETHYLBENZENE	26.42	406	13732	267366.1	ug/Kg	97
36)	4-BROMOFLUOROBENZENE(SS)→	28.28	436	194850	3306547.	ug/Kg	88

* Compound is ISTD

016-41.


File >B5182 ENVRESPONSE 12512-474934390UP,7334-55604(10UL OF
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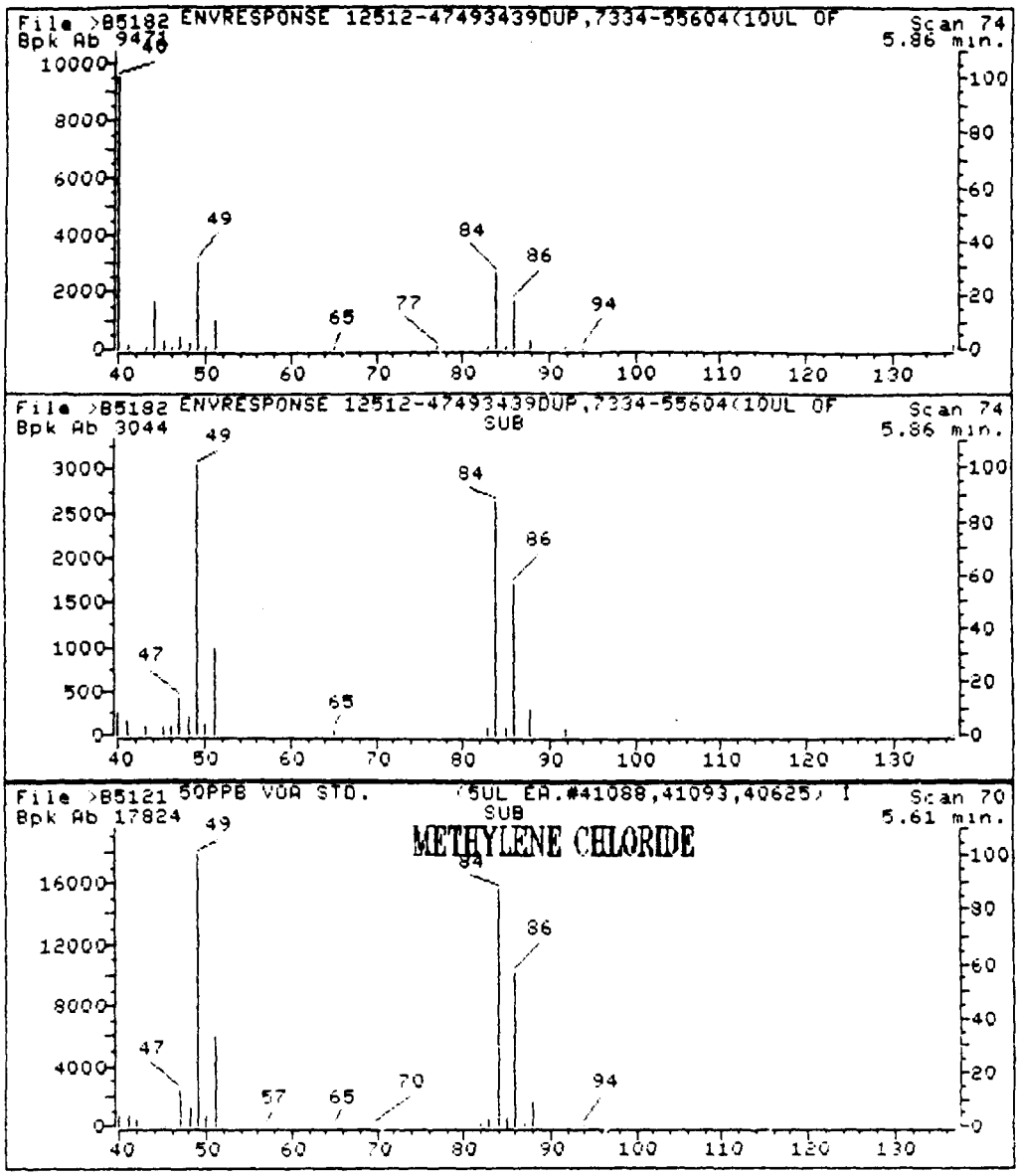
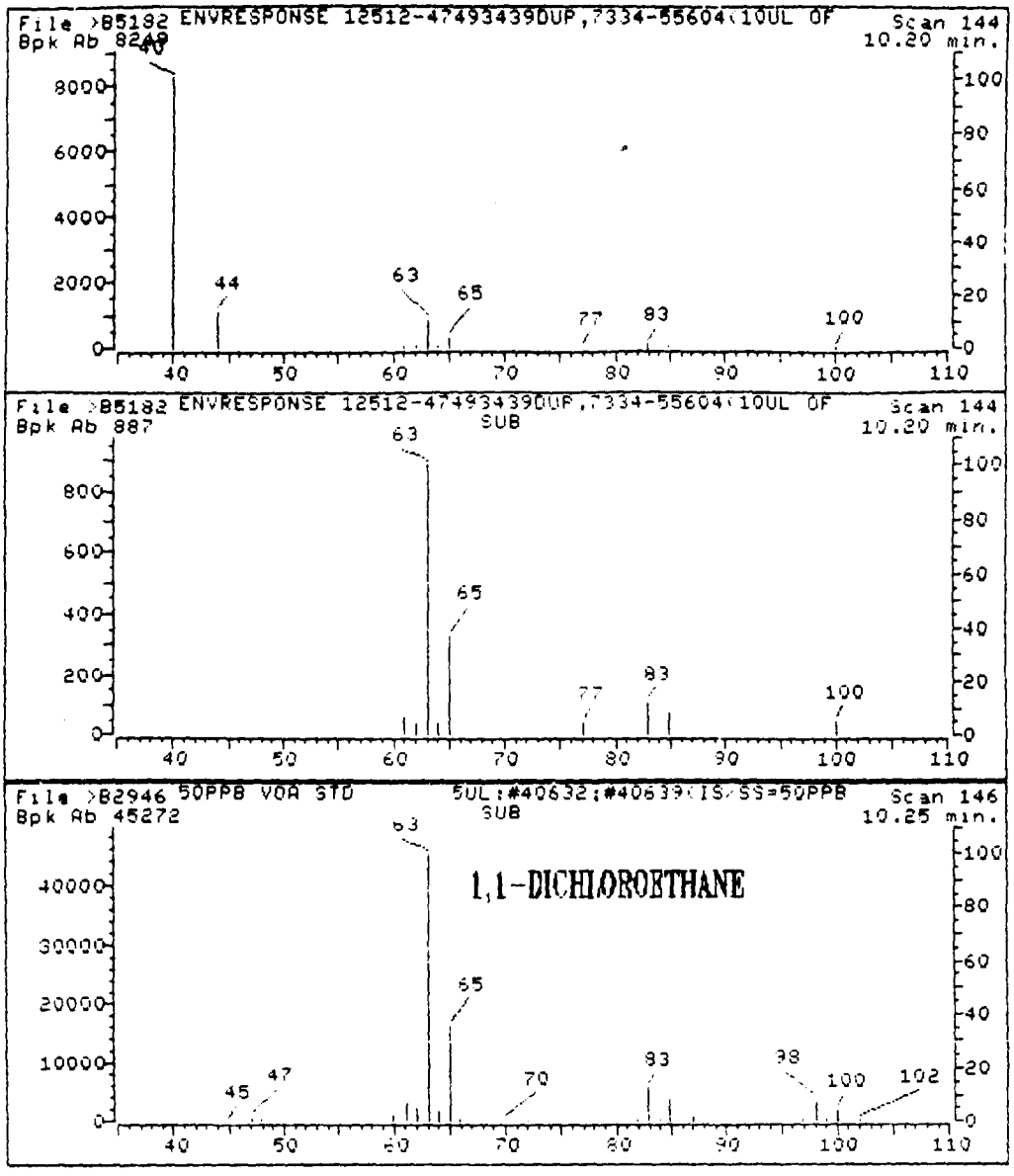
2.95 min.
Bpk Ab 7648
File >B5182 ENVRESPONSE 12512-474934390UP,7334-55604(10UL OF
Scan 27
2.95 min.
Bpk Ab 1733
SUB
File >B2946 50PPB VOA STD
5UL:#40632;#40639(IS/SS=50PPB
Scan 29
3.01 min.
Bpk Ab 56568
SUB
VINYL CHLORIDE

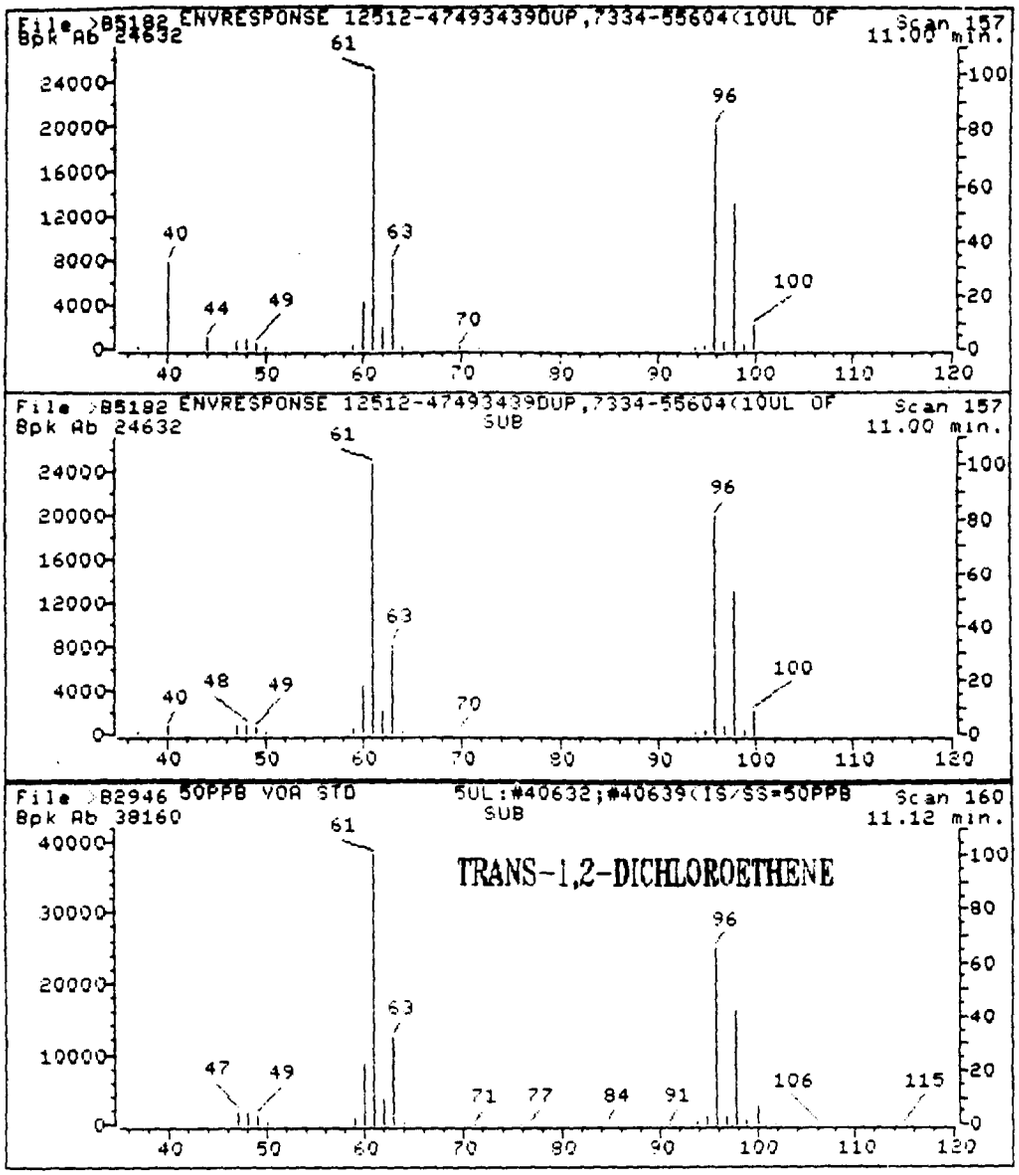
016-42


File >B5182 ENVRESPONSE 12512-47493439DUP,7334-55604(10UL OF
Bpk Ab 9471
Scan 74
5.86 min.
49
84
86
65
77
94
File >B5182 ENVRESPONSE 12512-47493439DUP,7334-55604(10UL OF
SUB
Bpk Ab 3044
Scan 74
5.86 min.
49
84
86
47
65
File >B5121 50PPB VOA STD. (5UL EA.#41088,41093,40625) I
SUB
Bpk Ab 17824
Scan 70
5.61 min.
METHYLENE CHLORIDE
49
84
86
47
57
65
70
94

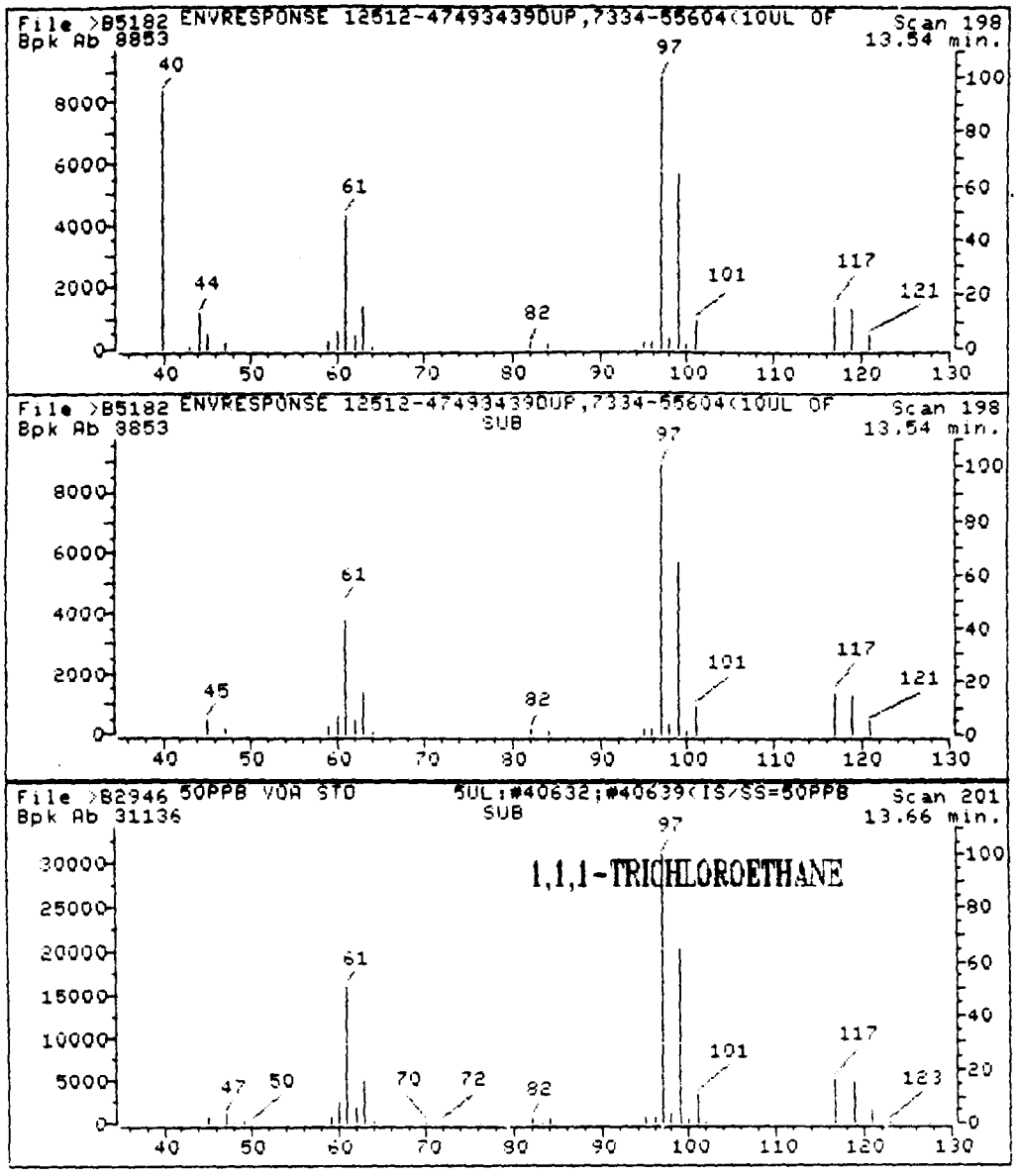
016-43


File >B5182 ENVRESPONSE 12512-47493439DUP,7334-55604(10UL OF
Scan 144
Bpk Ab 8249
10.20 min.
File >B5182 ENVRESPONSE 12512-47493439DUP,7334-55604(10UL OF
SUB
Scan 144
Bpk Ab 887
10.20 min.
File >B2946 50PPB VOA STD
5UL:#40632:#40639(IS/SS=50PPB
SUB
Scan 146
Bpk Ab 45272
10.25 min.
1,1-DICHLOROETHANE

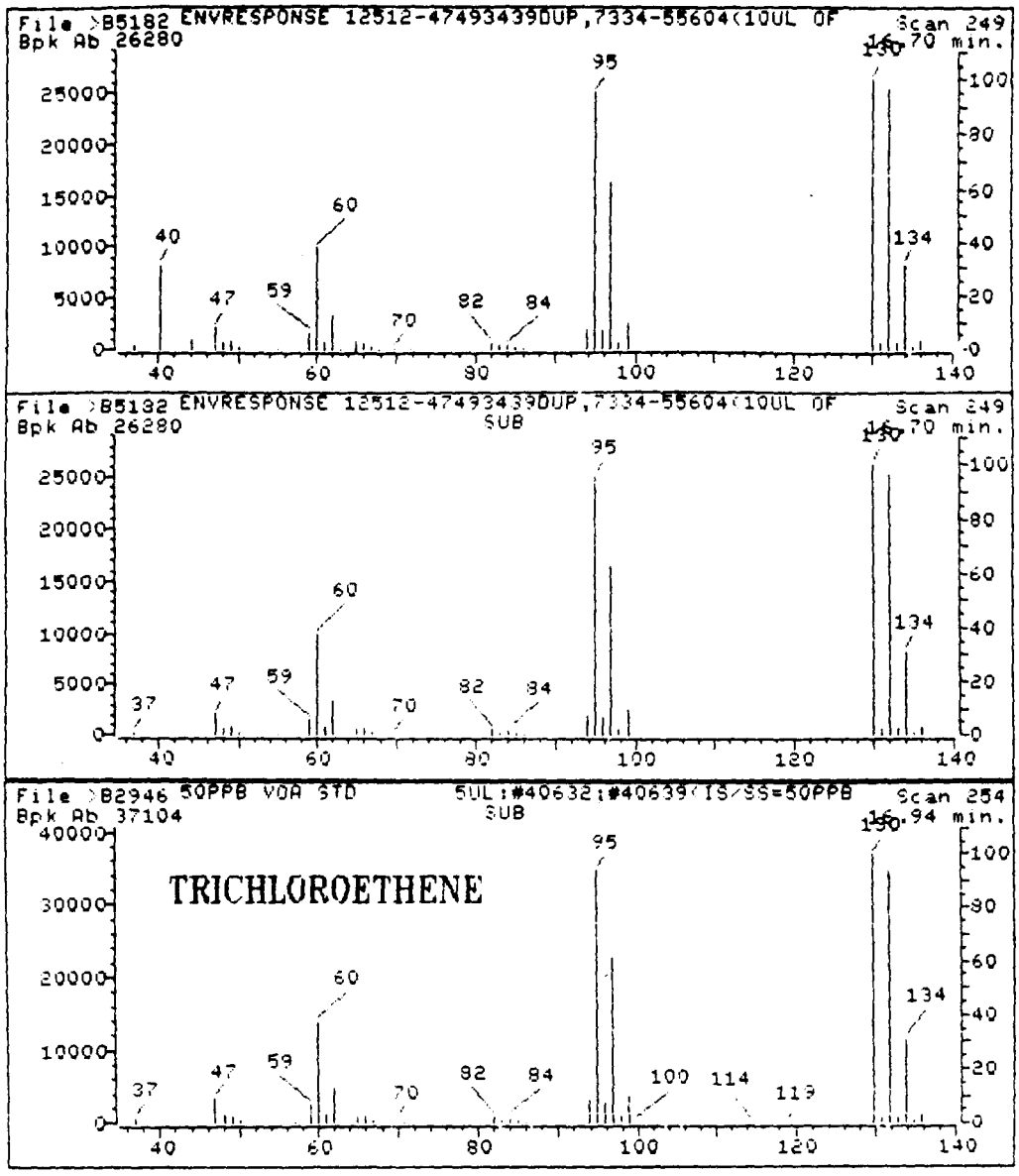
016-44


File >B5182 ENVRESPONSE 12512-47493439DUP,7334-55604(10UL OF
Bpk Ab 24632
Scan 157
11.00 min.
61
96
40
63
44
49
70
100
File >B5182 ENVRESPONSE 12512-47493439DUP,7334-55604(10UL OF
SUB
Bpk Ab 24632
Scan 157
11.00 min.
61
96
63
40
48
49
70
100
File >B2946 50PPB VOA STD
5UL:#40632;#40639(IS/SS=50PPB
SUB
Bpk Ab 38160
Scan 160
11.12 min.
61
TRANS-1,2-DICHLOROETHENE
96
63
47
49
71
77
84
91
106
115

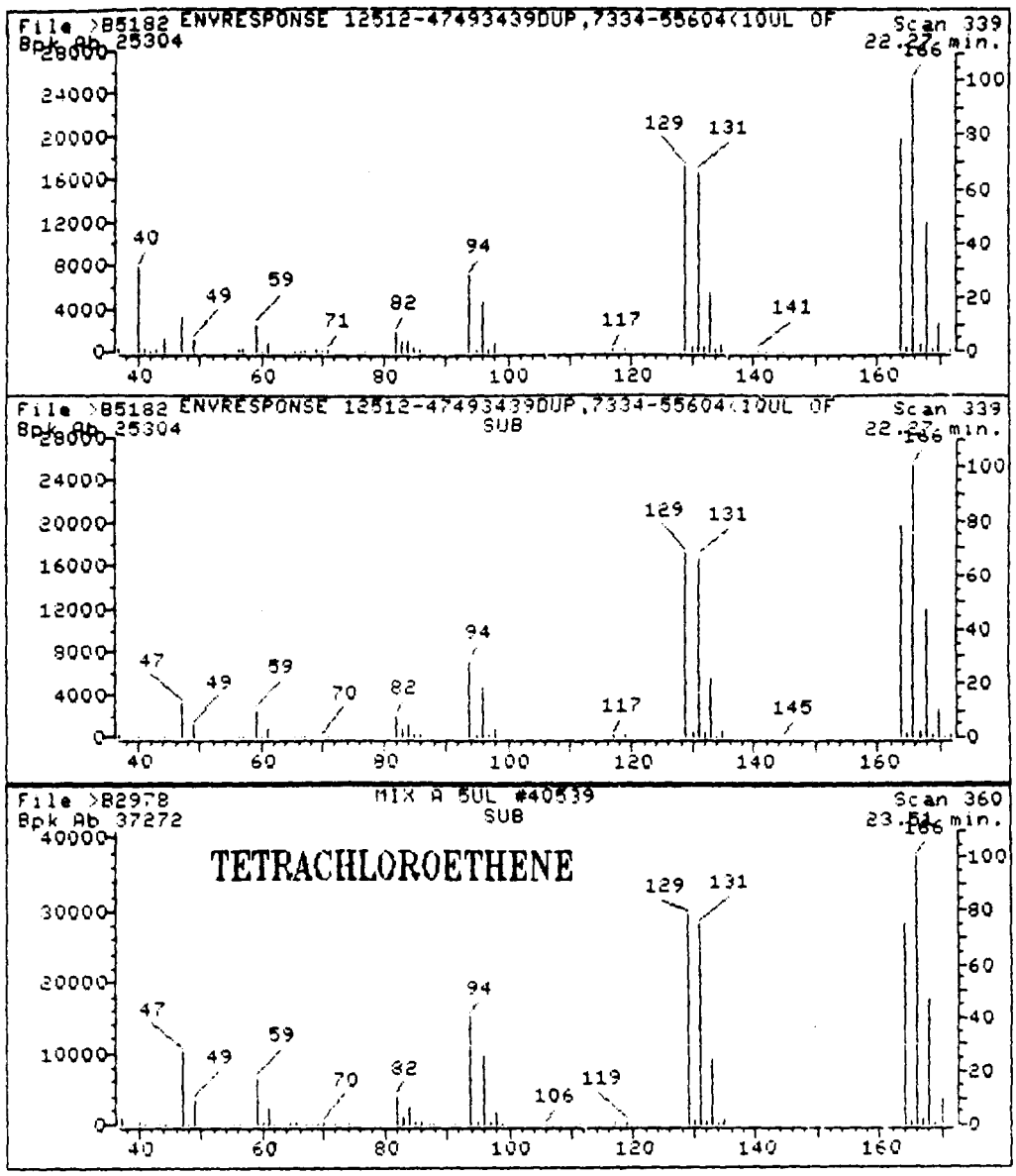
016-45


File >B5182 ENVRESPONSE 12512-47493439DUP,7334-55604(10UL OF
Bpk Ab 8853
Scan 198
13.54 min.
File >B5182 ENVRESPONSE 12512-47493439DUP,7334-55604(10UL OF
SUB
Bpk Ab 8853
Scan 198
13.54 min.
File >B2946 50PPB VOA STD
5UL;#40632;#40639(IS/SS=50PPB
SUB
Bpk Ab 31136
Scan 201
13.66 min.
1,1,1-TRICHLOROETHANE

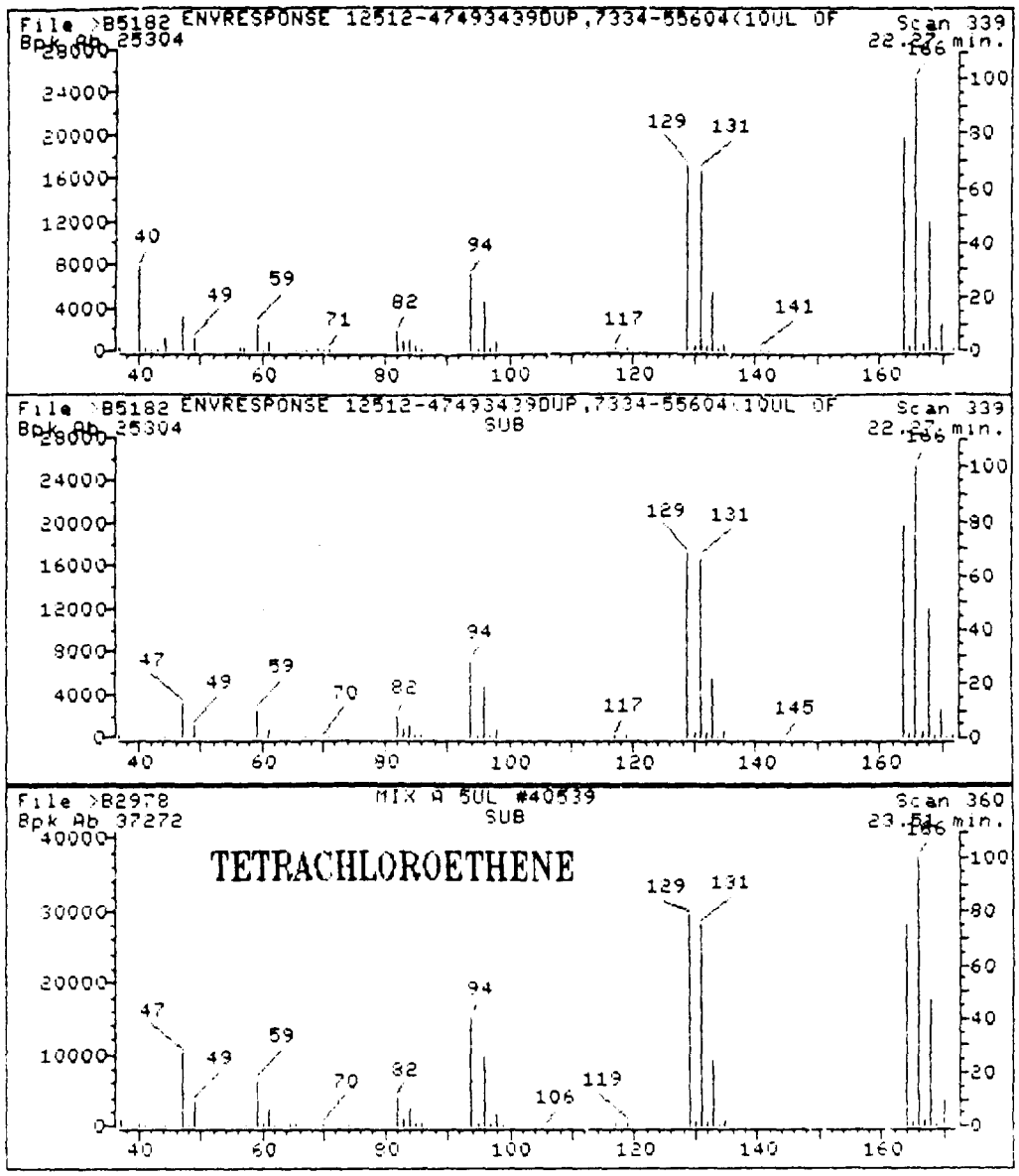
016-46


File >B5182 ENVRESPONSE 12512-47493439DUP,7334-55604(10UL OF
Bpk Ab 26280
Scan 249
16.70 min.
File >B5132 ENVRESPONSE 12512-47493439DUP,7334-55604(10UL OF
SUB
Bpk Ab 26280
Scan 249
16.70 min.
File >B2946 50PPB VOA STD
5UL:#40632:#40639(IS/SS=50PPB
SUB
Bpk Ab 37104
Scan 254
16.94 min.
TRICHLOROETHENE

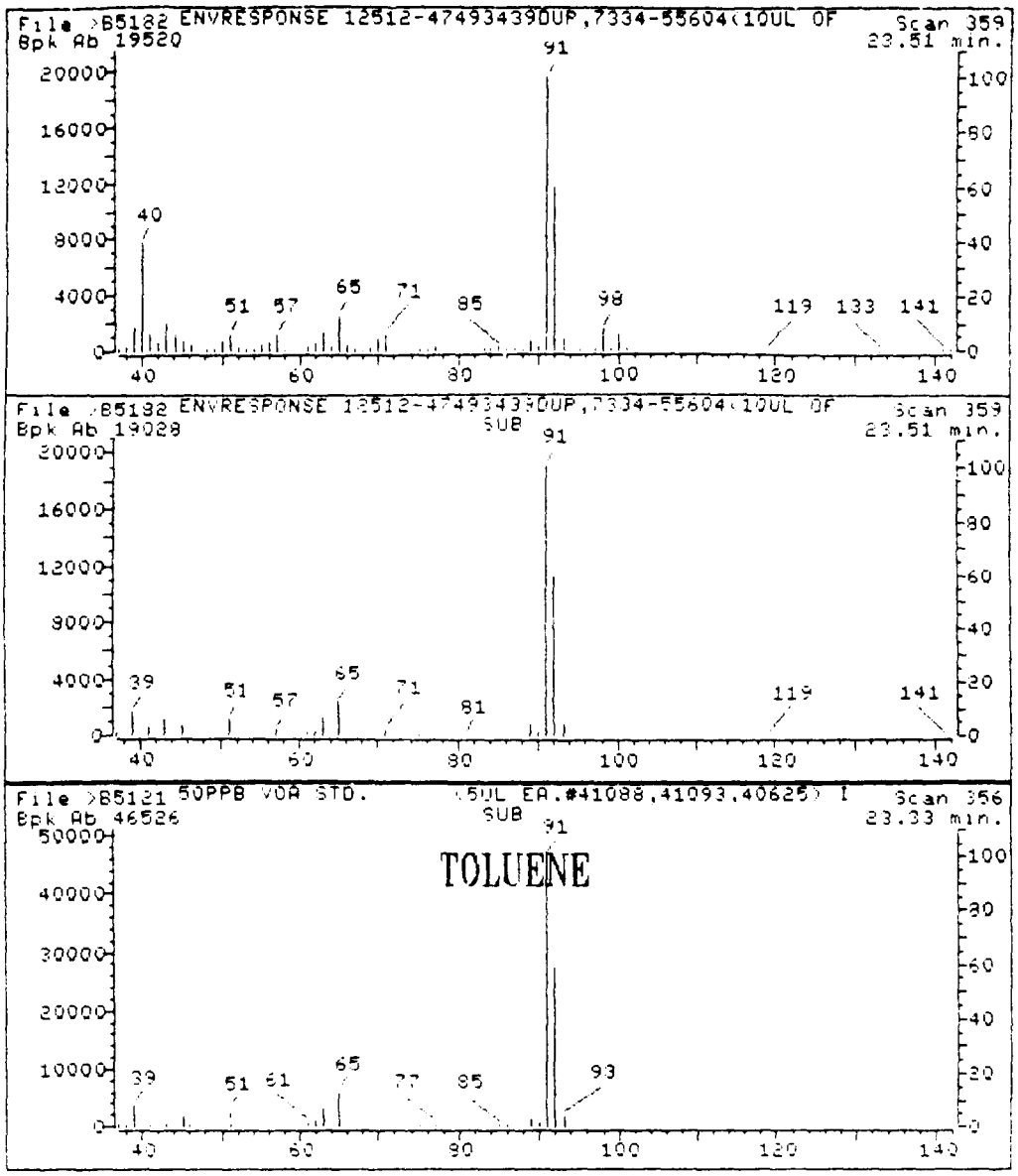
016-47


File >B5182 ENVRESPONSE 12512-47493439DUP,7334-55604(10UL OF
Bpk Ab 25304
Scan 339
22.27 min.
SUB
File >B2978
Bpk Ab 37272
MIX A 5UL #40539
Scan 360
23.51 min.
TETRACHLOROETHENE

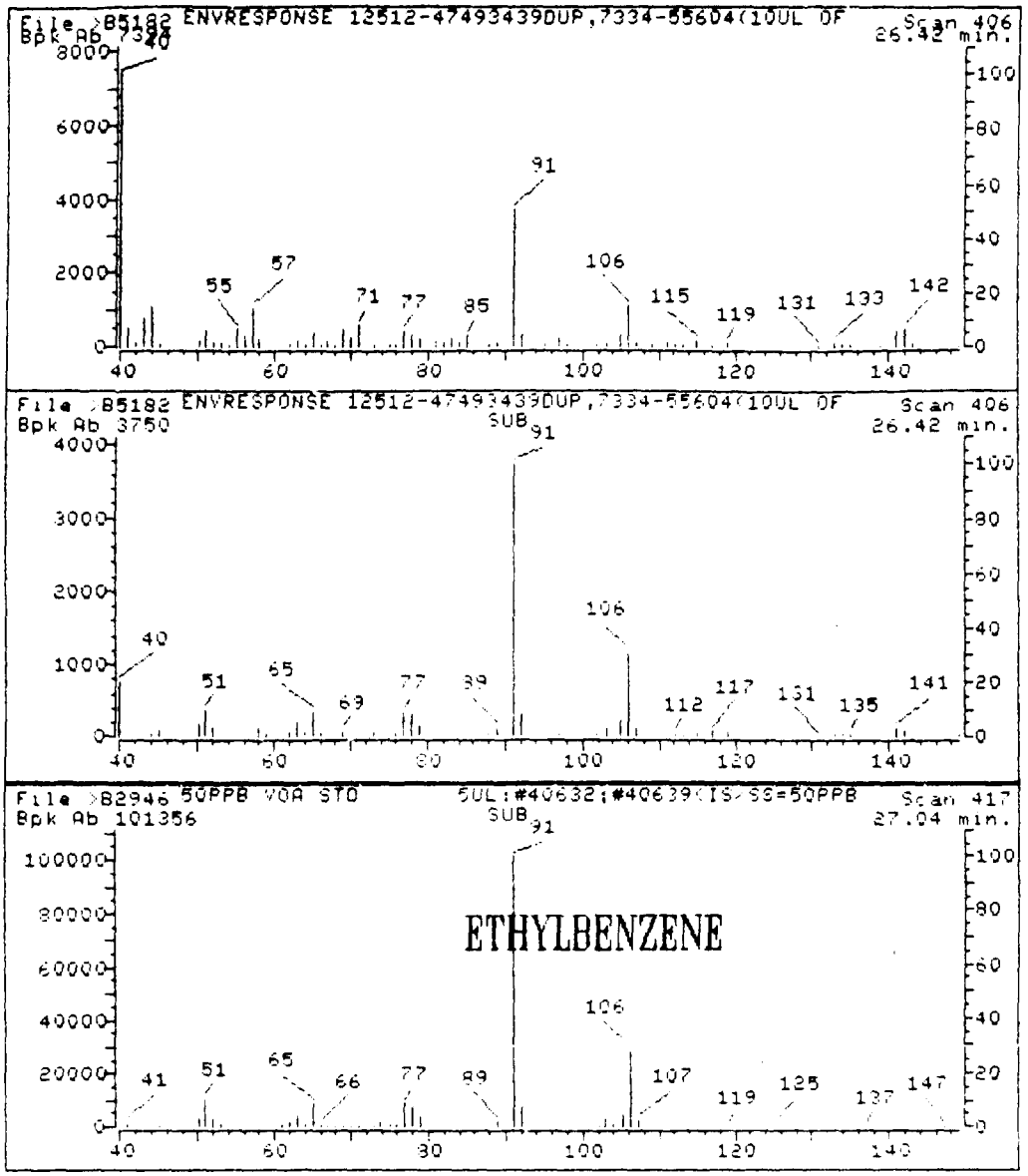
016-47


File >B5182 ENVRESPONSE 12512-47493439DUP,7334-55604(10UL OF
Scan 339
Bpk Ab 25304
22.27 min.
File >B5182 ENVRESPONSE 12512-47493439DUP,7334-55604(10UL OF
SUB
Scan 339
Bpk Ab 25304
22.27 min.
File >B2978
MIX A 5UL #40539
SUB
Scan 360
Bpk Ab 37272
23.51 min.
TETRACHLOROETHENE

016-48


File >B5182 ENVRESPONSE 12512-474934390UP,7334-55604(10UL OF
Scan 359
Bpk Ab 19520
23.51 min.
File >B5182 ENVRESPONSE 12512-474934390UP,7334-55604(10UL OF
Scan 359
Bpk Ab 19028
SUB
23.51 min.
File >B5121 50PPB VOA STD. (5UL EA.#41088,41093,40625) I
Scan 356
Bpk Ab 46526
SUB
23.33 min.
TOLUENE

016-49


File >B5182 ENVRESPONSE 12512-47493439DUP,7334-55604(10UL OF
Bpk Ab 7340
Scan 406
26.42 min.
File >B5182 ENVRESPONSE 12512-47493439DUP,7334-55604(10UL OF
Bpk Ab 3750
SUB
Scan 406
26.42 min.
File >B2946 50PPB VOA STD
5UL:#40632;#40639(IS)SS=50PPB
Bpk Ab 101356
SUB
Scan 417
27.04 min.
ETHYLBENZENE

2 2 0490

Sample Number
7335

013-20

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Clayton Environmental
Client: ~~Case No~~: Enviresponse
Lab Sample ID No: B5129 (493413)
QC Report No: NA
Sample Matrix: water
Contract No: NA
Data Release Authorized By: [signature]
Date Sample Received: 9/18/86

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 9/21/86
Date Analyzed: 9/21/86
Conc/Dil Factor: 1 pH 6.3
Percent Moisture: (Not Decanted) NA

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10 U
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	10 U
75-00-3	Chloroethane	10 U
75-09-2	Methylene Chloride	5 U
75-69-4	Trichlorofluoromethane	1 N
75-35-4	1, 1-Dichloroethene	5 U
75-34-3	1, 1-Dichloroethane	5 U
156-60-5	Trans-1, 2-Dichloroethene	5 U
67-66-3	Chloroform	1 J
107-06-2	1, 2-Dichloroethane	5 U
71-55-6	1, 1, 1-Trichloroethane	5 U
56-23-5	Carbon Tetrachloride	5 U
75-27-4	Bromodichloromethane	5 U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	7 N
10061-02-6	Trans-1, 3-Dichloropropene	5 U
79-01-6	Trichloroethene	5 U
124-48-1	Dibromochloromethane	5 U
79-00-5	1, 1, 2-Trichloroethane	5 U
71-43-2	Benzene	5 U
10061-01-5	cis-1, 3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U
75-25-2	Bromoform	5 U
127-18-4	Tetrachloroethene	5 U
79-34-5	1, 1, 2, 2-Tetrachloroethane	5 U
108-88-3	Toluene	1 J
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
541-73-1	1, 3-Dichlorobenzene	15 N
106-46-7	1, 4-Dichlorobenzene	15 N
95-50-1	1, 2-Dichlorobenzene	7 N

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

M Matrix spike compound

N Instrument limit of detection

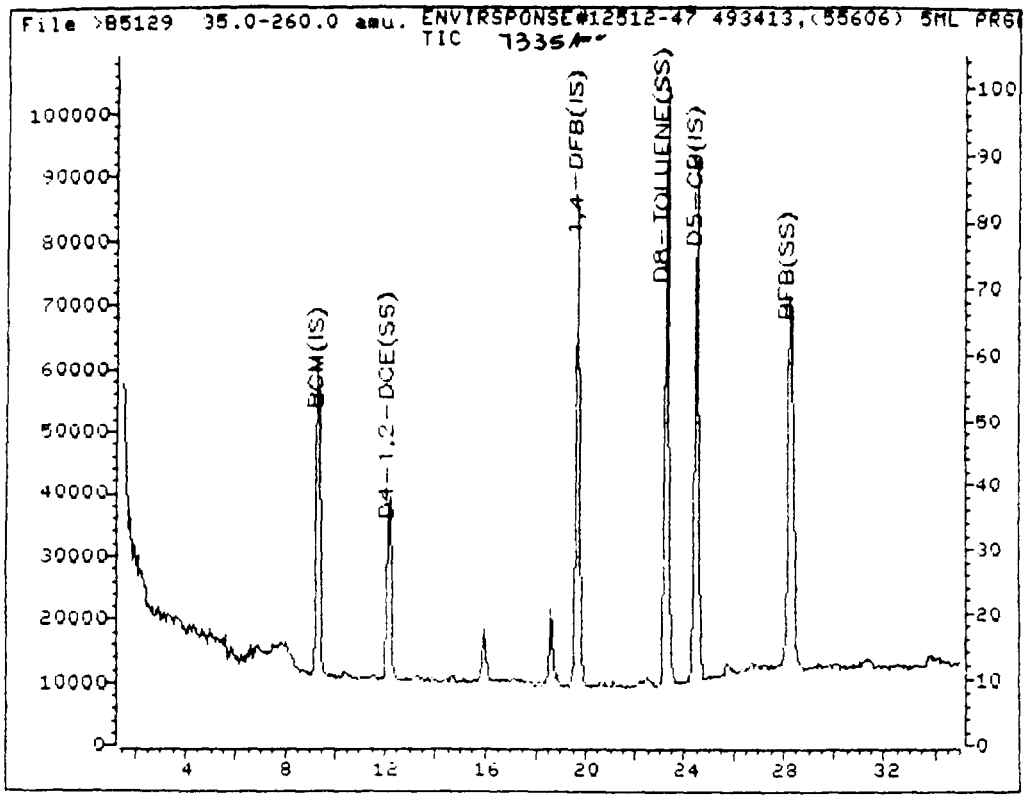
A Indicates a value less than the dilution corrected limit of detection but greater than the CRDL

178

Form I

11/85

014-14



MS data file header from : >B5129

7335

Sample: ENVIRSPONSE#12512-47 Operator: MIKE MS 9/21/86 22:47
Misc : 493413,(55606) 5ML PRGD. IS,SS=50PPB(SUL#41036)
Sys. #: 2B MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: VOAME2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 0 Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

QUANT REPORT

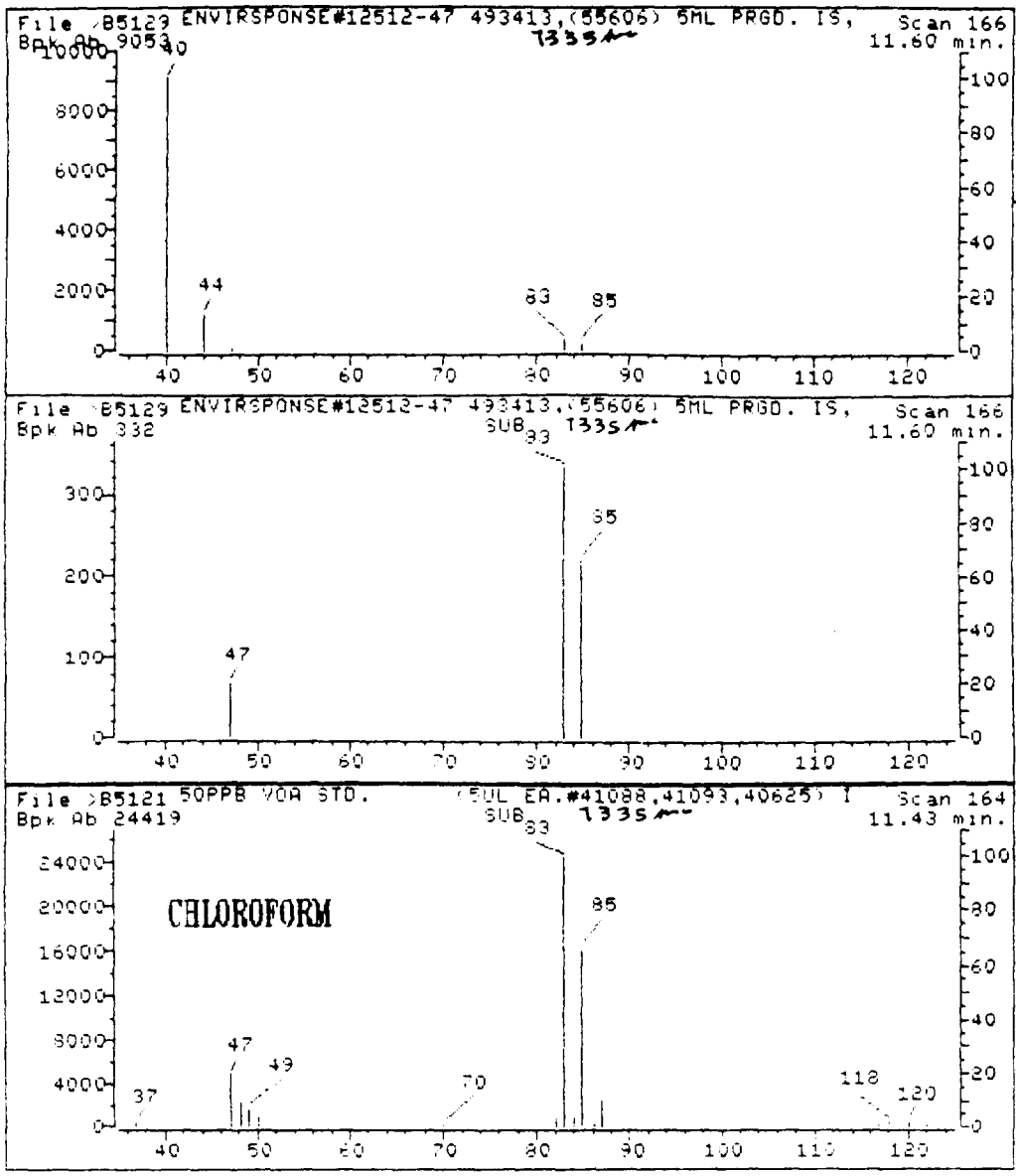
Operator ID: MIKE Quant Rev: 4 Quant Time: 860921 23:38
Output File: ^P5129::AQ Injected at: 860921 22:47
Data File: >B5129::BB Dilution Factor: 1.000
Name: ENVIRSPONSE#12512-47-7335
Misc: 493413,(55606) 5ML PRGD. IS,SS=50PPB(5UL#41036)

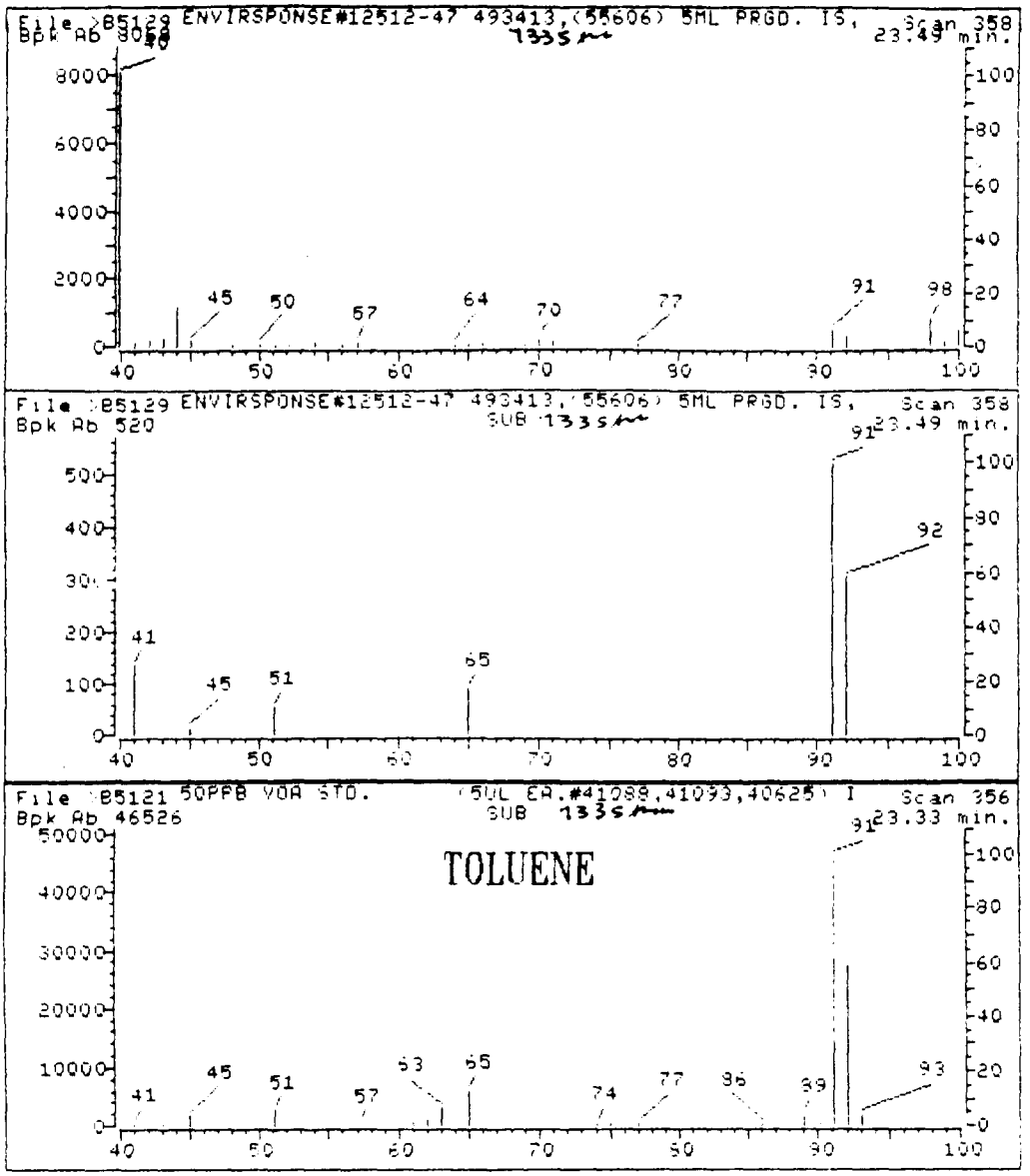
ID File: PPVID2::PS
Title: PRIORITY POLLUTANTS - METHOD 624
Last Calibration: 860921 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE(IS)	9.31	129	73492	50.00	ug/L	91
13)	CHLOROFORM	11.60	166	3398	.78	ug/L	97
14)	D4-1,2-DICHLOROETHANE(SS)	12.22	176	94852	48.52	ug/L	100
16)	*1,4-DIFLUOROBENZENE(IS)	19.65	296	365486	50.00	ug/L	100
29)	*D5-CHLOROBENZENE(IS)	24.48	374	303268	50.00	ug/L	100
32)	D8-TOLUENE(SS)	23.30	355	391197	50.37	ug/L	97
33)	TOLUENE	23.49	358	3095	.60	ug/L	94
36)	4-BROMOFLUOROBENZENE(SS)	28.26	435	189718	49.22	ug/L	97

* Compound is ISTD

016-59


File >B5129 ENVIRSPONSE#12512-47 493413,(55606) 5ML PRGD. IS,
Scan 166
11.60 min.
Bpk Ab 9053
1335
40
44
83
85
File >B5129 ENVIRSPONSE#12512-47 493413,(55606) 5ML PRGD. IS,
Scan 166
11.60 min.
Bpk Ab 332
SUB
1335
83
85
47
File >B5121 50PPB VOA STD. (5UL EA.#41088,41093,40625) I
Scan 164
11.43 min.
Bpk Ab 24419
SUB
1335
CHLOROFORM
83
85
47
49
37
70
118
120


File :B5129 ENVIRSPONSE#12512-47 493413,(55606) 5ML PRGD. IS, Scan 358
Bpk Ab 30560
SUB 1335
23.49 min.
File :B5129 ENVIRSPONSE#12512-47 493413,(55606) 5ML PRGD. IS, Scan 358
Bpk Ab 520
SUB 1335
23.49 min.
File :B5121 50PPB VOA STD. (5UL EA.#41088,41093,40625) I Scan 356
Bpk Ab 46526
SUB 1335
23.33 min.
TOLUENE

2 2 0495

Sample Number
7341

013-23

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Clayton Enviromental

Client ~~Case No~~: Enviresponse

Lab Sample ID No: B 5131 (493415)

QC Report No: N/A

Sample Matrix: water

Contract No: NA

Data Release Authorized By: [signature]

Date Sample Received: 9/18/86

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 9/22/86

Date Analyzed: 9/22/86

Conc/(Dil Factor): 1 pH 6.3

Percent Moisture: (Not Decanted) NA

CAS Number		(ug/l) or ug/Kg (Circle One)
74-87-3	Chloromethane	10 u
74-83-9	Bromomethane	10 u
75-01-4	Vinyl Chloride	10 u
75-00-3	Chloroethane	130
75-09-2	Methylene Chloride	6
75-69-4	Trichlorofluoromethane	1 N
75-35-4	1, 1-Dichloroethene	5 u
75-34-3	1, 1-Dichloroethane	8
156-60-5	Trans-1, 2-Dichloroethene	5 u
67-66-3	Chloroform	5 u
107-06-2	1, 2-Dichloroethane	5 u
71-55-6	1, 1, 1-Trichloroethane	5 u
56-23-5	Carbon Tetrachloride	5 u
75-27-4	Bromodichloromethane	5 u

CAS Number		(ug/l) or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	7 N
10061-02-6	Trans-1, 3-Dichloropropene	5 u
79-01-6	Trichloroethene	5 u
124-48-1	Dibromochloromethane	5 u
79-00-5	1, 1, 2-Trichloroethane	5 u
71-43-2	Benzene	5 u
10061-01-5	cis-1, 3-Dichloropropene	5 u
110-75-8	2-Chloroethylvinylether	10 u
75-25-2	Bromoform	5 u
127-18-4	Tetrachloroethene	5 u
79-34-5	1, 1, 2, 2-Tetrachloroethane	5 u
108-88-3	Toluene	5 u
108-90-7	Chlorobenzene	5 u
100-41-4	Ethylbenzene	5 u
541-73-1	1, 3-Dichlorobenzene	15 N
106-46-7	1, 4-Dichlorobenzene	15 N
95-50-1	1, 2-Dichlorobenzene	7 N

1 Am C

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

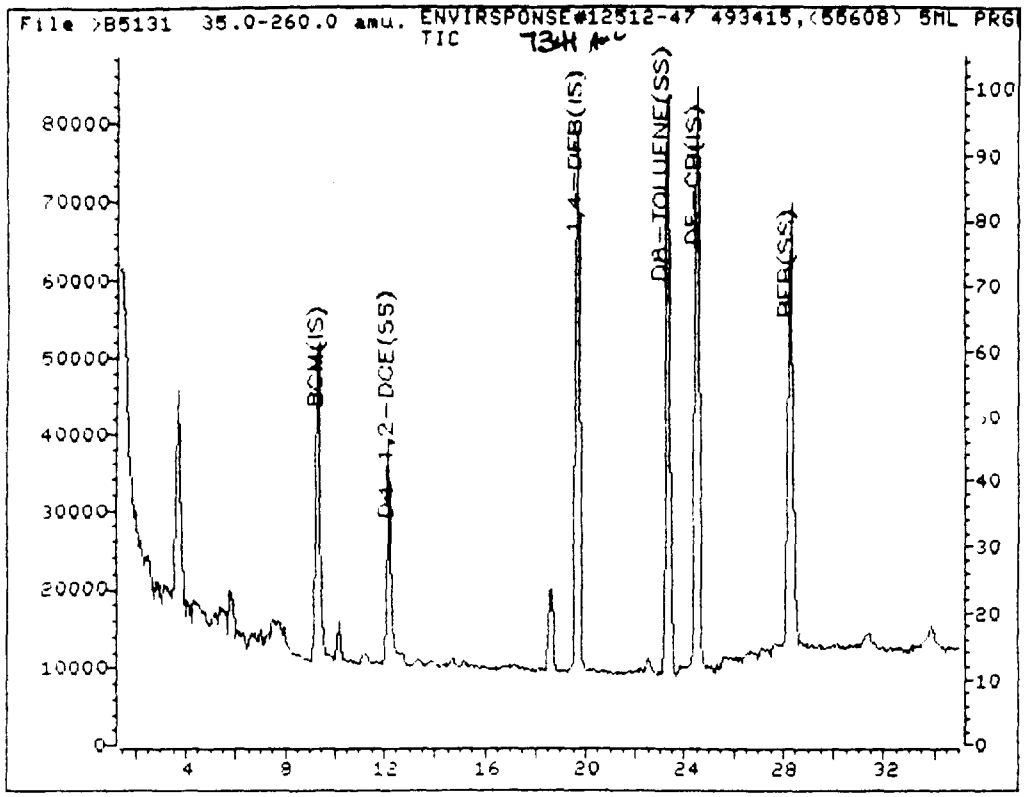
M Matrix spike compound

N Instrument limit of detection

188 **A** Indicates a value less than the dilution corrected limit of detection but greater than the CRDL

2 2 0496

014-16



MS data file header from : >B5131

Sample: ENVIRSPONSE#12512-47/ 7341 Am Operator: MIKE MS 9/22/86 0:42
Misc : 493415,(55608) 5ML PRGD. IS,SS=50PPB(SUL#41036)
Sys. #: 2 BMS model: 87 SW/HW rev.: CA ALS # : 0
Method file: VOAME2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 0 Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

015-16

QUANT REPORT

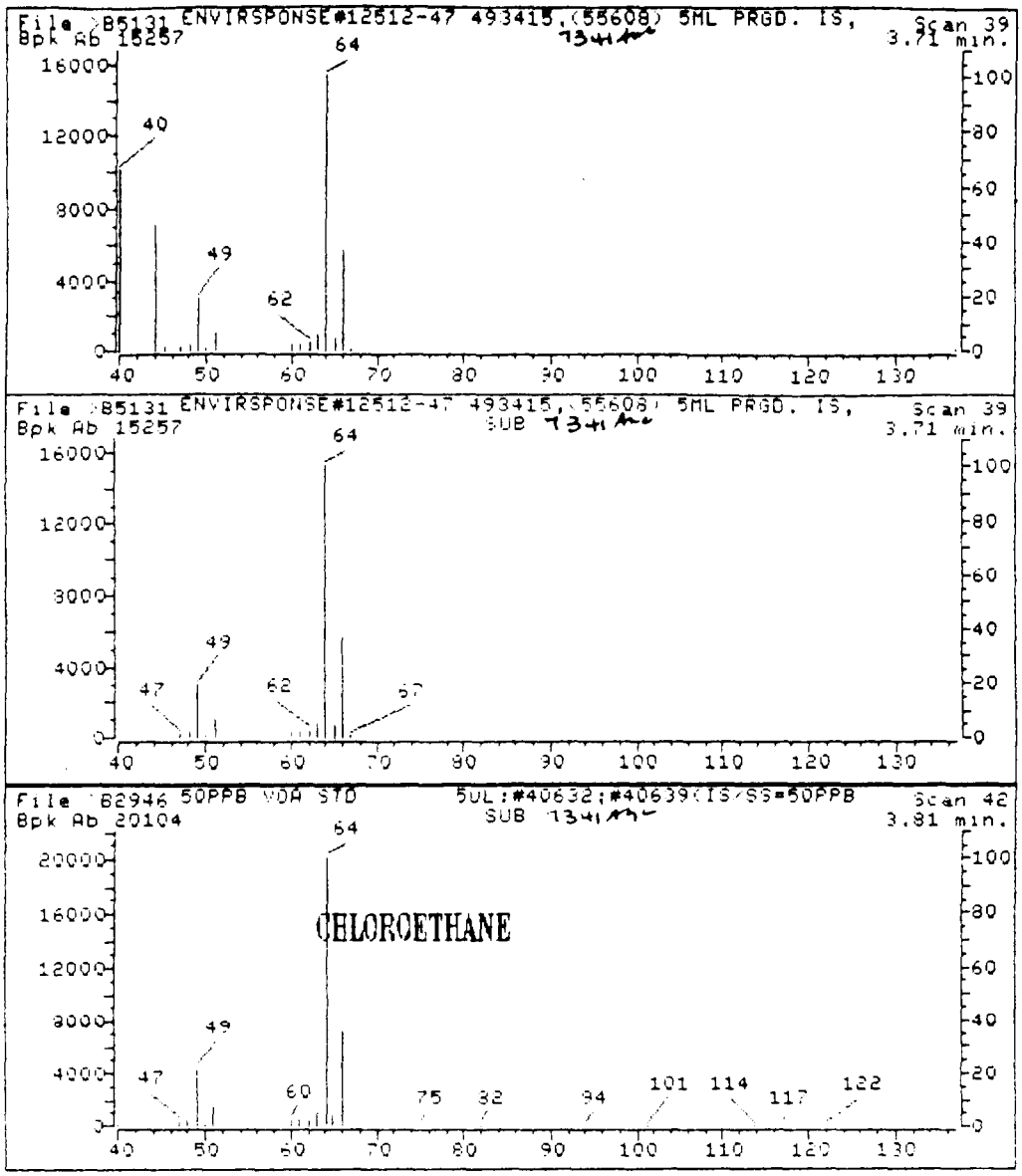
Operator ID: MIKE Quant Rev: 4 Quant Time: 860922 01:33
Output File: ^P5131::AQ Injected at: 860922 00:42
Data File: >B5131::BB Dilution Factor: 1.000
Name: ENVIRSPONSE#12512-47-734
Misc: 493415,(55608) 5ML PRGD. IS,SS=50PPB(5UL#41036)

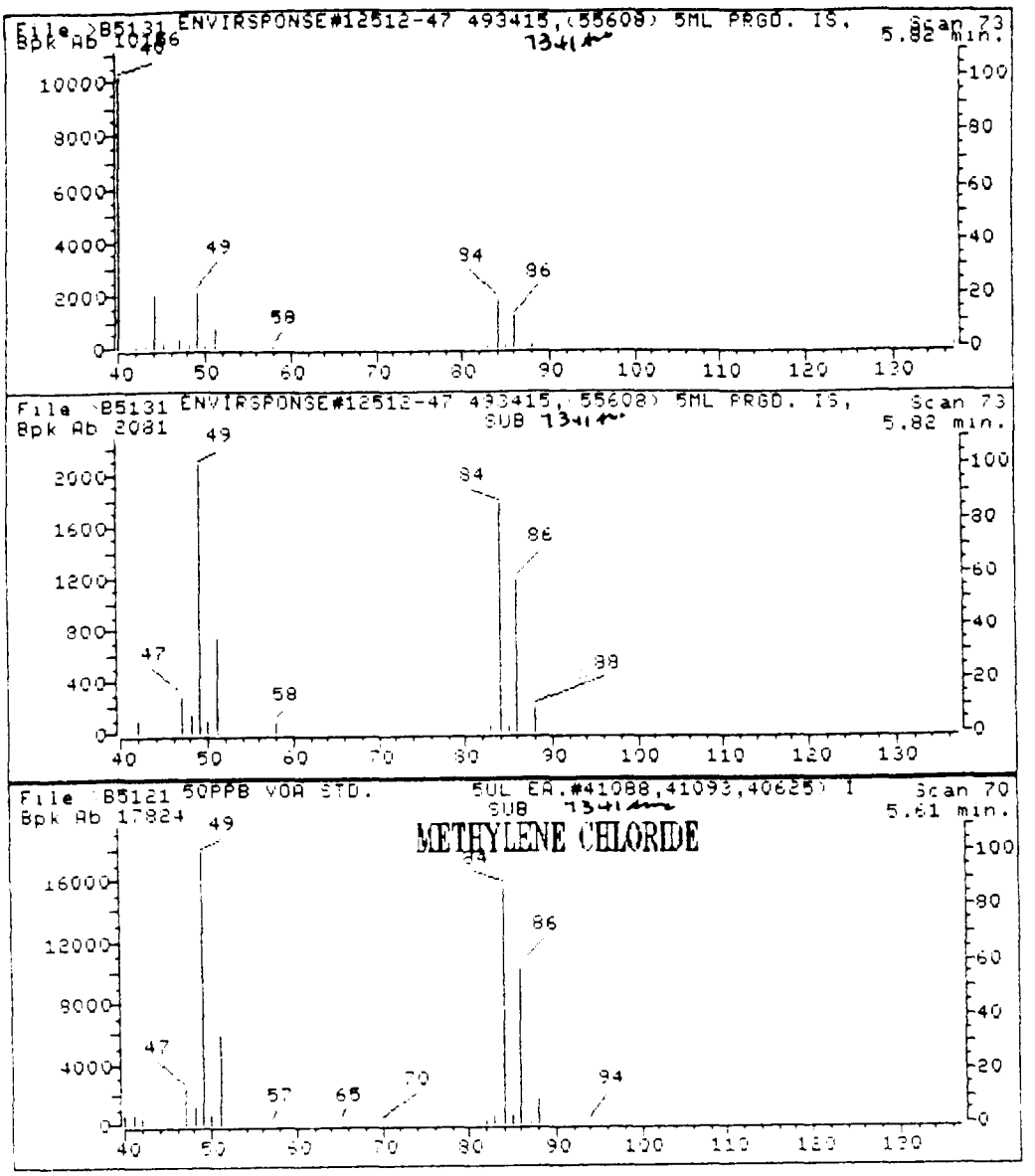
ID File: PPVID2::PS
Title: PRIORITY POLLUTANTS - METHOD 624
Last Calibration: 860921 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE(IS)	9.28	129	71362	50.00	ug/L	95
5)	CHLOROETHANE	3.71	39	209158	130.28	ug/L	96
6)	METHYLENE CHLORIDE	5.82	73	19653	6.15	ug/L	77
11)	1,1-DICHLOROETHANE	10.15	143	33822	8.14	ug/L	67
14)	D4-1,2-DICHLOROETHANE(SS)	12.19	176	96107	50.63	ug/L	100
16)	*1,4-DIFLUOROBENZENE(IS)	19.69	297	311738	50.00	ug/L	100
29)	*D5-CHLOROBENZENE(IS)	24.52	375	269356	50.00	ug/L	100
32)	D8-TOLUENE(SS)	23.34	356	312758	45.34	ug/L	97
36)	4-BROMOFLUOROBENZENE(SS)	28.29	436	180938	52.85	ug/L	98

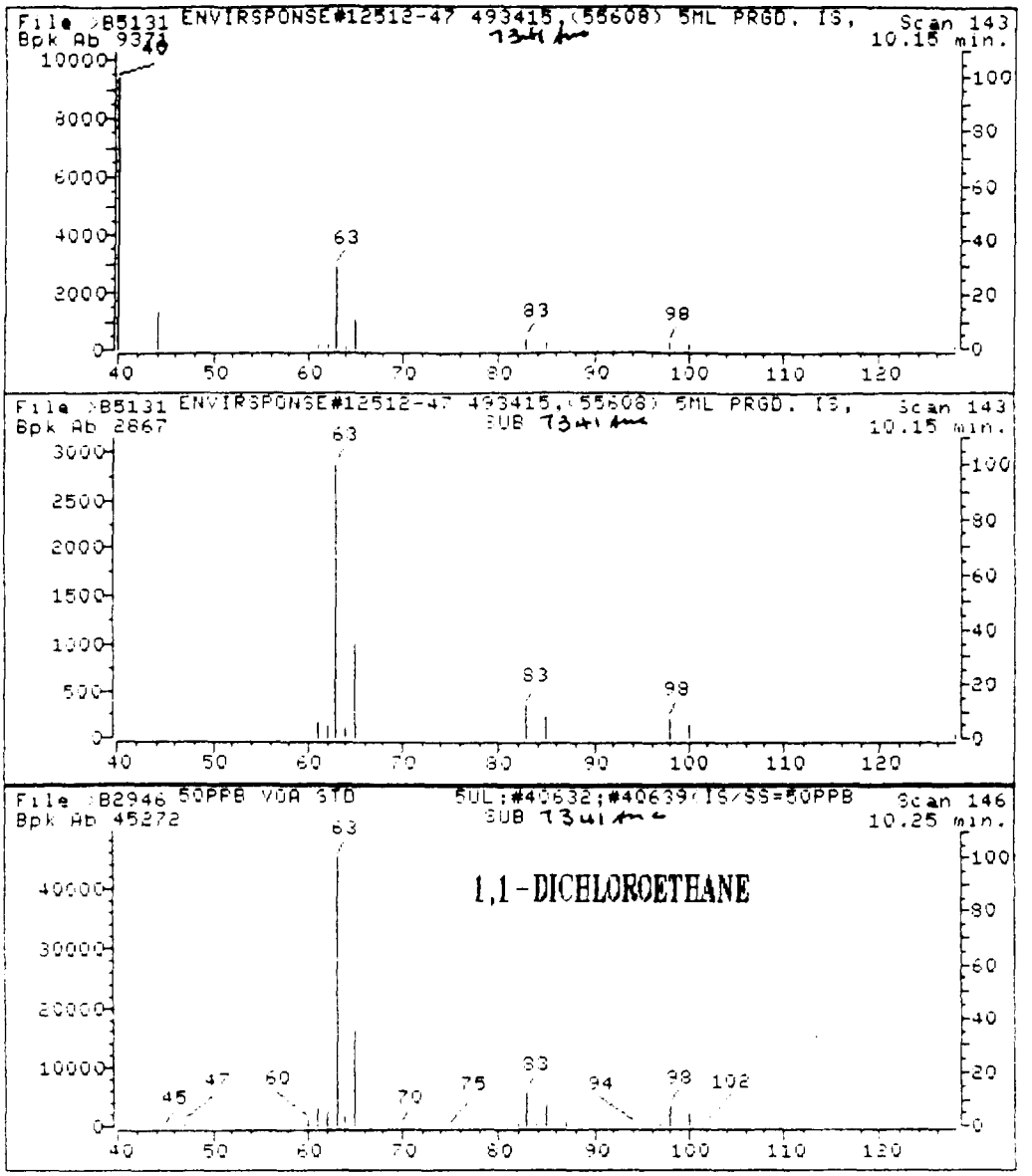
* Compound is ISTD

016-61


File B5131 ENVIRSPONSE#12512-47 493415,(55608) 5ML PRGD. IS,
Bpk Ab 15257
Scan 39
3.71 min.
64
40
49
62
File B5131 ENVIRSPONSE#12512-47 493415,(55608) 5ML PRGD. IS,
Bpk Ab 15257
SUB
Scan 39
3.71 min.
64
49
47
62
67
File B2946 50PPB VOA STD
5UL:#40632;#40639(IS/SS=50PPB
Bpk Ab 20104
SUB
Scan 42
3.81 min.
64
CHLOROETHANE
49
47
60
75
82
94
101
114
117
122


File B5131 ENVIRSPONSE#12512-47 493415,(55608) 5ML PRGD. IS, Scan 73
Bpk Ab 10186 5.82 min.
File B5131 ENVIRSPONSE#12512-47 493415, 55608) 5ML PRGD. IS, Scan 73
Bpk Ab 2081 SUB 5.82 min.
File B5121 50PPB VOA STD. 5UL EA.#41088,41093,40625) 1 Scan 70
Bpk Ab 17824 SUB 5.61 min.
METHYLENE CHLORIDE

016-63


File :B5131 ENVIRSPONSE#12512-47 493415,(55608) 5ML PRGD. IS, Scan 143
Bpk Ab 9371
10.15 min.
63
83
98
File :B5131 ENVIRSPONSE#12512-47 493415,(55608) 5ML PRGD. IS, Scan 143
Bpk Ab 2867
SUB
10.15 min.
63
83
98
File :B2946 50PPB VOA STD 5UL:#40632;#40639(IS/SS=50PPB Scan 146
Bpk Ab 45272
SUB
10.25 min.
63
1,1-DICHLOROETHANE
45
47
60
70
75
83
94
98
102

2 2 0501

Sample Number
7342

013-26

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Clayton Environmental
Client Case No: Enviresponse
Lab Sample ID No: B 5139 (493416)
QC Report No: N/A
Sample Matrix: Water
Contract No: N/A
Data Release Authorized By: [signature]
Date Sample Received: 9-18-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 9-22-86
Date Analyzed: 9-22-86
Conc/(Dil Factor) 1 pH 6.6
Percent Moisture: (Not Decanted) NA

CAS Number		(ug/l) or ug/Kg (Circle One)
74-87-3	Chloromethane	10 U
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	10 U
75-00-3	Chloroethane	10 U
75-09-2	Methylene Chloride	5 U
75-69-4	Trichlorofluoromethane	1 N
75-35-4	1, 1-Dichloroethene	5 U
75-34-3	1, 1-Dichloroethane	5 U
156-60-5	Trans-1, 2-Dichloroethene	5 U
67-66-3	Chloroform	5 U
107-06-2	1, 2-Dichloroethane	5 U
71-55-6	1, 1, 1-Trichloroethane	5 U
56 23-5	Carbon Tetrachloride	5 U
75-27-4	Bromodichloromethane	5 U

CAS Number		(ug/l) or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	7 N
10061-02-6	Trans-1, 3-Dichloropropene	5 U
79-01-6	Trichloroethene	5 U
124-48-1	Dibromochloromethane	5 U
79-00-5	1, 1, 2-Trichloroethane	5 U
71-43-2	Benzene	5 U
10061-01-5	cis-1, 3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U
75-25-2	Bromoform	5 U
127-18-4	Tetrachloroethene	5 U
79-34-5	1, 1, 2, 2-Tetrachloroethane	5 U
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
541-73-1	1 3-Dichlorobenzene	15 N
106-46-7	1 4-Dichlorobenzene	15 N
95-50-1	1 2-Dichlorobenzene	7 N

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value — If the result is a value greater than or equal to the detection limit report the value

U — Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J — Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J

C — This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

B — This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action

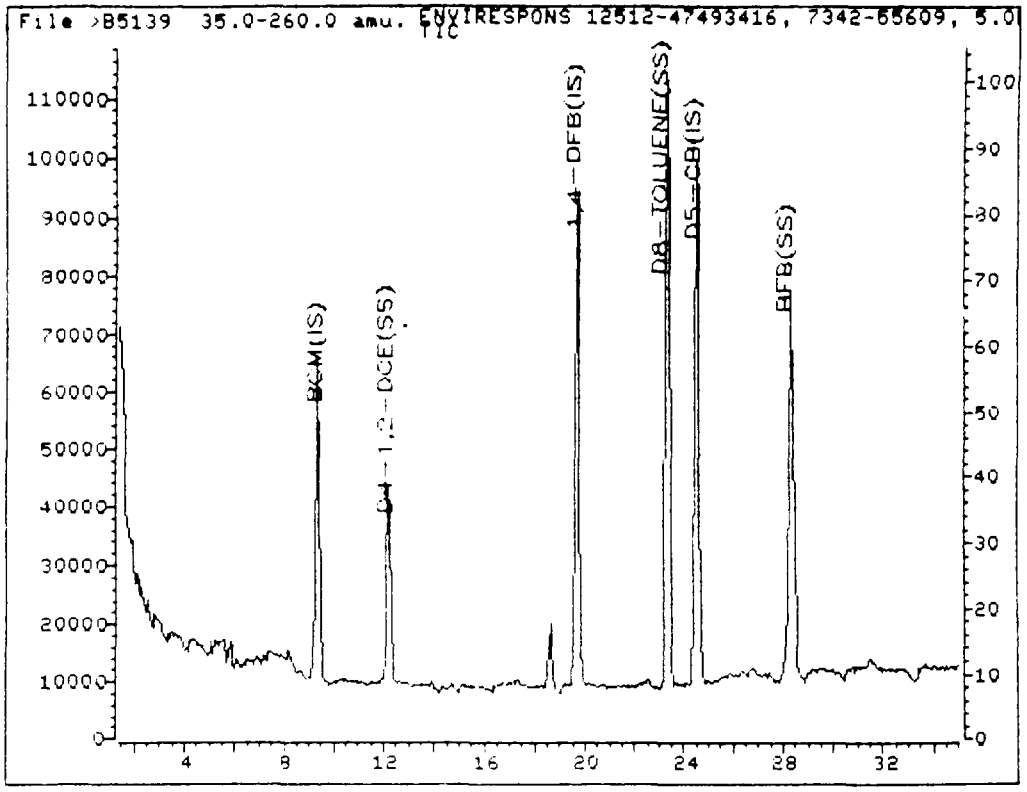
Other — Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

M Matrix spike compound

N Instrument limit of detection

A Indicates a value less than the dilution corrected limit of detection but greater than the CRDL

014-18



MS data file header from : B5139

Sample: ENVIRESPONS 12512-47 Operator: MIKE MS 9/22/86 13:21
Misc : 493416, 7342-55609, 5.0ML PRGD IS,SS=50PPB(SUL#41036)
Sys. #: 2B MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: VOAME2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 0 Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

015-18

QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860922 14:14
Output File: ^P5139::AA Injected at: 860922 13:21
Data File: >B5139::BB Dilution Factor: 1.000
Name: ENVIRESPONS 12512-47
Misc: 493416, 7342-55609, 5.0ML PRGD IS,SS=50PPB(SUL#41036)

ID File: PPVID2::PS
Title: PRIORITY POLLUTANTS - METHOD 624
Last Calibration: 860922 11:16

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE(IS)	9.33	130	88417	50.00	ug/L	93
14)	D4-1,2-DICHLOROETHANE(SS)	12.18	176	107000	46.39	ug/L	100
16)	*1,4-DIFLUOROBENZENE(IS)	13.67	297	431053	50.00	ug/L	100
29)	*D5-CHLOROBENZENE(IS)	24.50	375	361402	50.00	ug/L	100
32)	D8-TOLUENE(SS)	23.32	356	436753	49.24	ug/L	98
36)	4-BROMOFLUOROBENZENE(SS)	28.34	437	215553	49.98	ug/L	96

* Compound is ISTD

Sample Number
7344

013-29

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Clayton Environmental
Client Case No: Envirespense
Lab Sample ID No: B 5140 (493417)
QC Report No: N/A
Sample Matrix: Water
Contract No: N/A
Data Release Authorized By: [signature]
Date Sample Received: 9/18/86

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 9/22/86
Date Analyzed: 9/22/86
Conc/Dil Factor: 1 pH 6.8
Percent Moisture: (Not Decanted) NA

CAS Number		ug/l or ug/Kg (Circle One)
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	3 JB
75-69-4	Trichlorofluoromethane	1 N
75-35-4	1, 1-Dichloroethene	5 U
75-34-3	1, 1-Dichloroethane	5 U
156-60-5	Trans-1, 2-Dichloroethene	1 J
67-66-3	Chloroform	5 U
107-06-2	1, 2-Dichloroethane	5 U
71-55-6	1, 1, 1-Trichloroethane	5 U
56-23-5	Carbon Tetrachloride	5 U
75-27-4	Bromodichloromethane	5 U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	7 N
10061-02-6	Trans-1, 3-Dichloropropene	5 U
79-01-6	Trichloroethene	5 U
124-48-1	Dibromochloromethane	5 U
79-00-5	1, 1, 2-Trichloroethane	5 U
71-43-2	Benzene	5 U
10061-01-5	cis-1, 3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U
75-25-2	Bromoform	5 U
127-18-4	Tetrachloroethene	6
79-34-5	1, 1, 2, 2-Tetrachloroethane	5 U
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
541-73-1	1, 3-Dichlorobenzene	15 N
106-46-7	1, 4-Dichlorobenzene	15 N
95-50-1	1, 2-Dichlorobenzene	7 N

VAM

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value — If the result is a value greater than or equal to the detection limit, report the value.

U — Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J — Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

C — This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B — This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other — Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

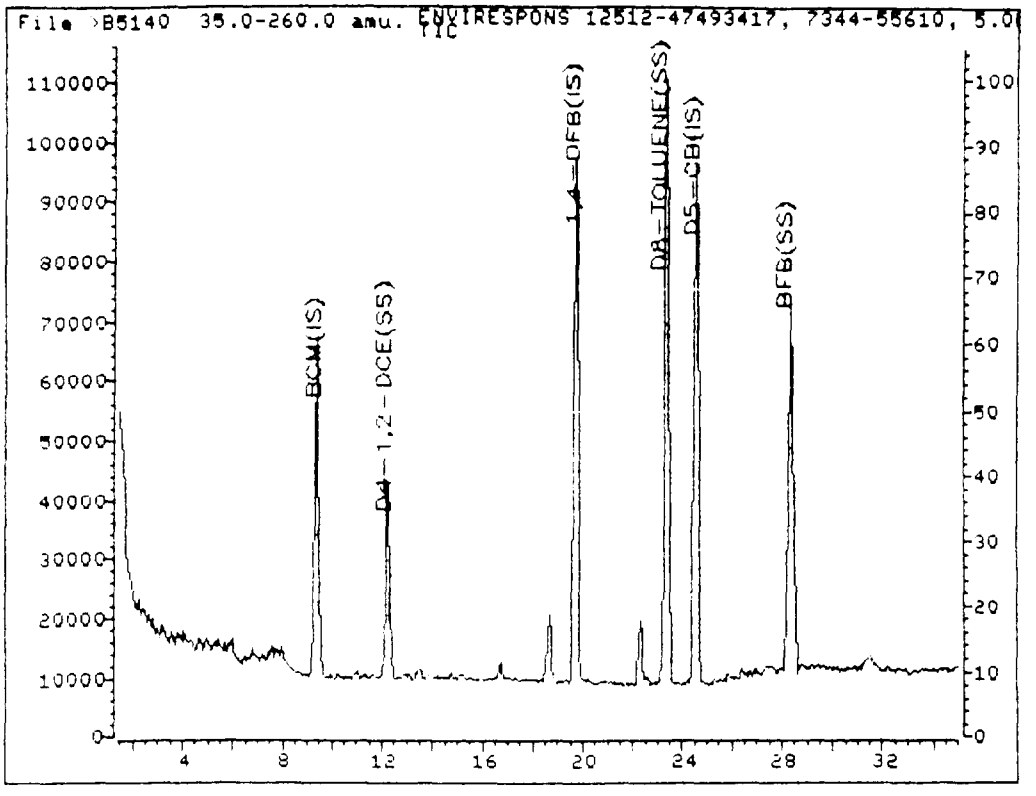
N Matrix spike compound

N Instrument limit of detection

A Indicates a value less than the dilution corrected limit of detection but greater than the CRDL

2 2 0505

014-20



MS data file header from : >B5140

Sample: ENVIRESPONS 12512-47 Operator: BETSY MS 9/22/86 14:09
Misc : 493417, 7344-55610, 5.0ML PRGD IS,SS=50PPB(5UL#41036)
Sys. #: 2β MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: VOAME2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 0 Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

015-20

QUANT REPORT

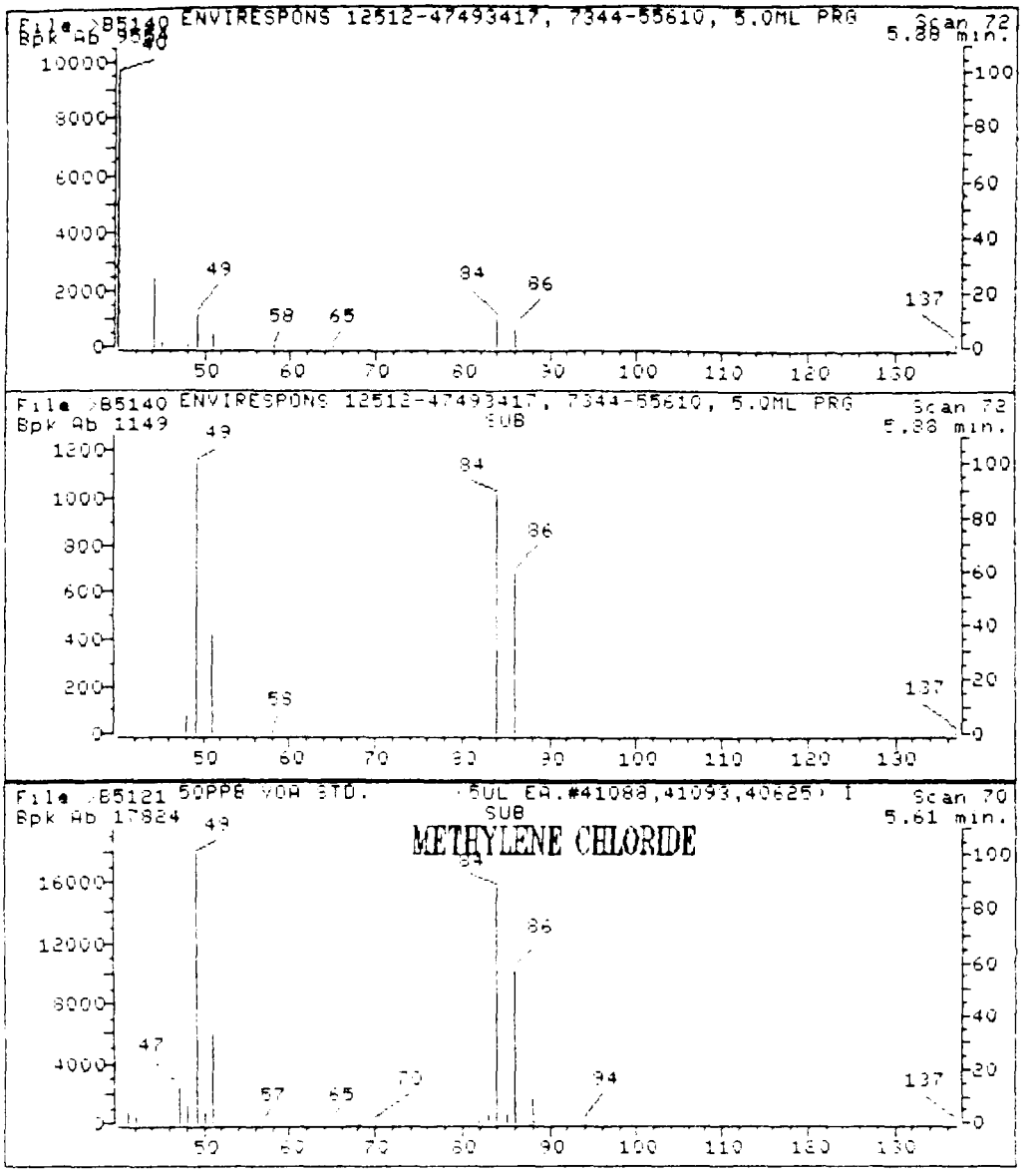
Operator ID: BETSY Quant Rev: 4 Quant Time: 860922 14:49
Output File: ^P5140::AA Injected at: 860922 14:09
Data File: >B5140::BB Dilution Factor: 1.000
Name: ENVIRESPONS 12512-47
Misc: 493417, 7344-55610, 5.0ML PRGD IS,SS=50PPB(SUL#41036)

ID File: PPVID2::PS
Title: PRIORITY POLLUTANTS - METHOD 624
Last Calibration: 860922 11:16

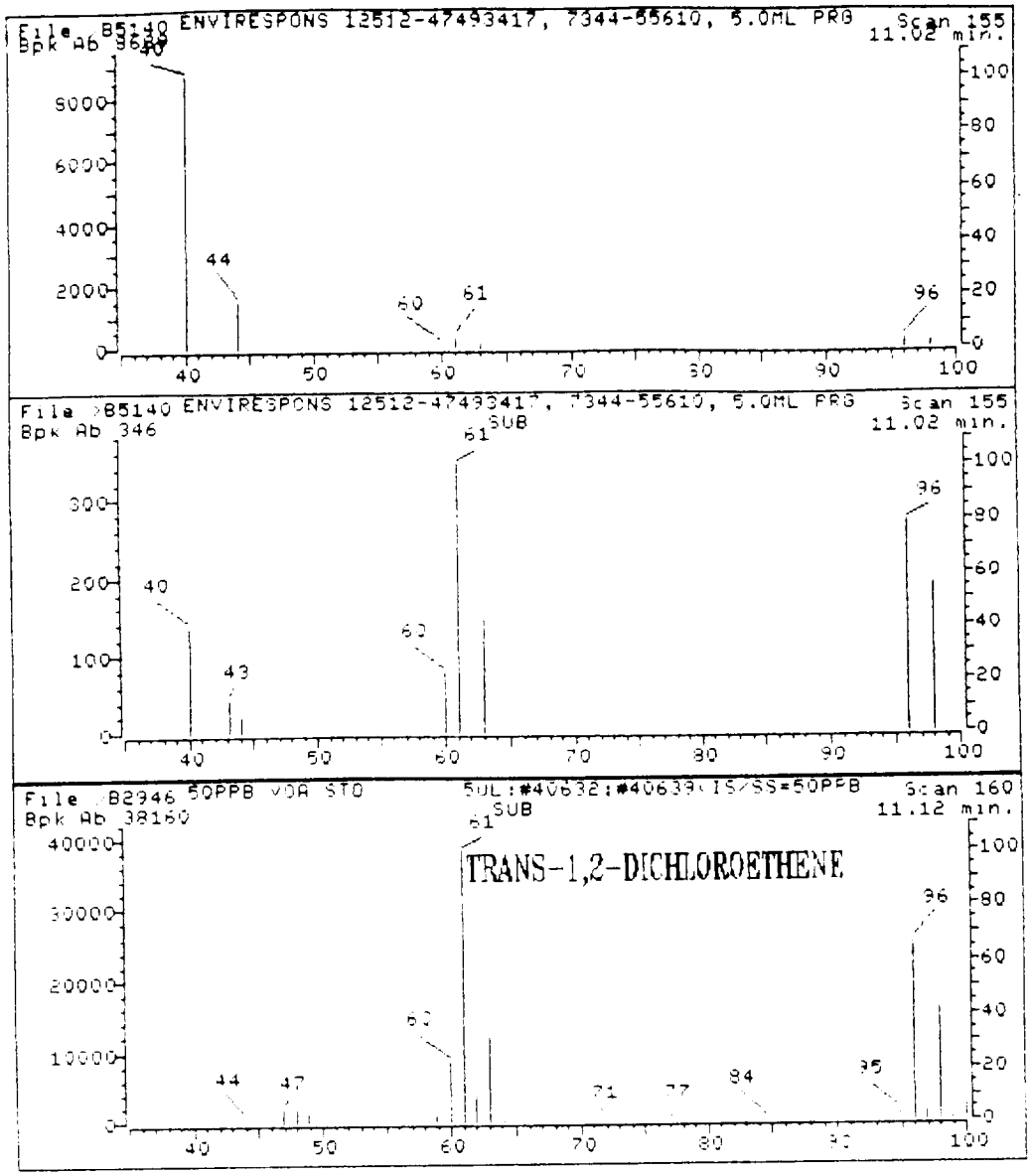
	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE(IS)	9.35	128	89468	50.00	ug/L	95
6)	METHYLENE CHLORIDE	5.88	72	11769	3.12	ug/L	74
12)	TRANS-1,2-DICHLOROETHENE	11.02	155	2533	.88	ug/L	79
14)	D4-1,2-DICHLOROETHANE(SS)	12.20	174	108985	46.69	ug/L	100
16)	*1,4-DIFLUOROBENZENE(IS)	19.69	295	424337	50.00	ug/L	100
29)	*D5-CHLOROBENZENE(IS)	24.52	373	337548	50.00	ug/L	100
30)	TETRACHLOROETHENE	22.29	337	16567	6.11	ug/L	96
32)	D8-TOLUENE(SS)	23.34	354	435156	52.53	ug/L	98
36)	4-BROMOFLUOROBENZENE(SS)	28.36	435	203173	50.44	ug/L	92

* Compound is ISTD

016-68

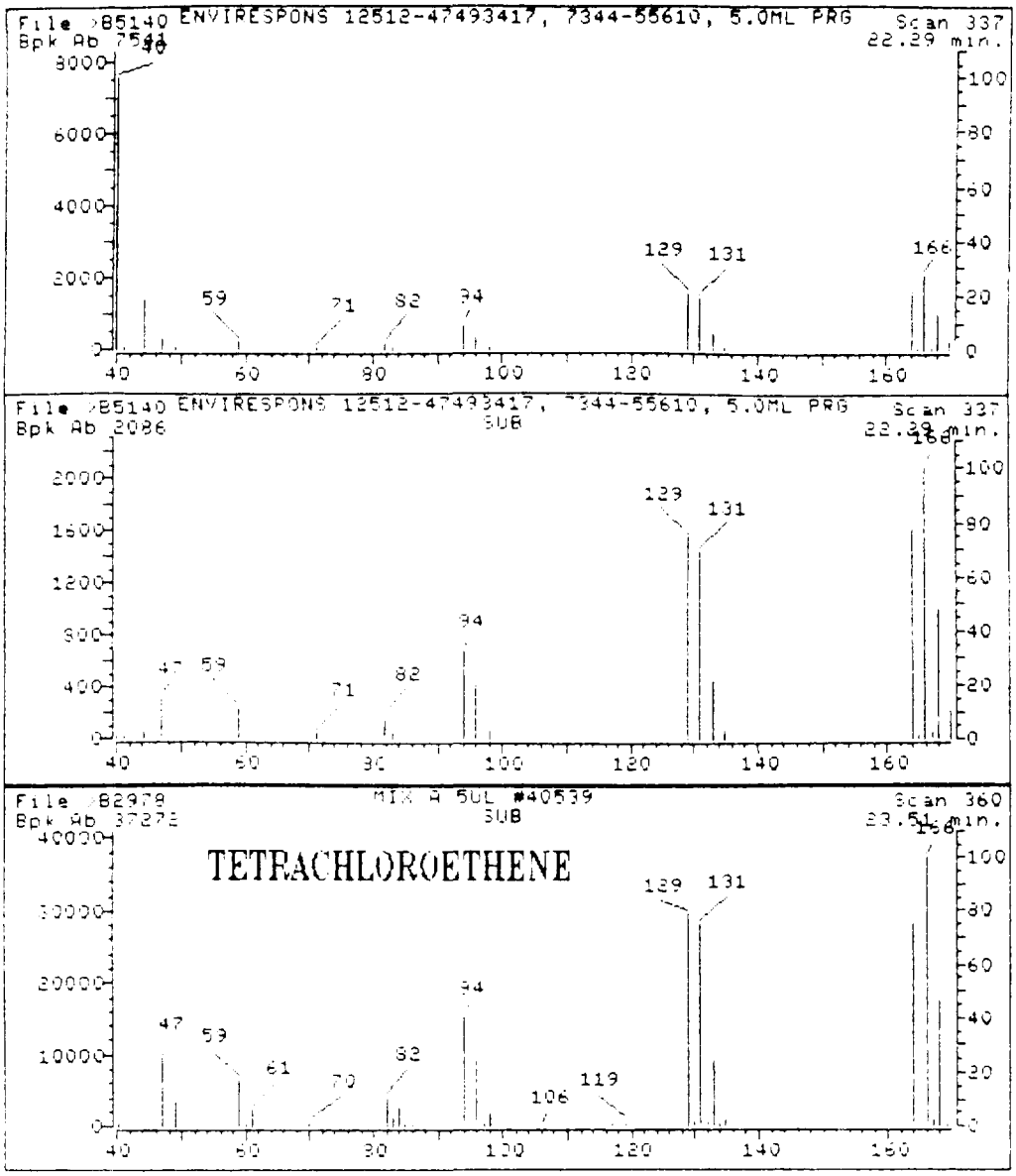

File >B5140 ENVIRESPONS 12512-47493417, 7344-55610, 5.0ML PRG
Bpk Ab 9540
Scan 72
5.88 min.
File >B5140 ENVIRESPONS 12512-47493417, 7344-55610, 5.0ML PRG
SUB
Bpk Ab 1149
Scan 72
5.88 min.
File >B5121 50PPB VOA STD. (50UL EA.#41088,41093,40625) I
SUB
Bpk Ab 17824
Scan 70
5.61 min.
METHYLENE CHLORIDE

016-69



m/z=40 is background

016-70


File >B5140 ENVIRESPONS 12512-47493417, 7344-55610, 5.0ML PRG
Scan 337
22.29 min.
Bpk Ab 7544
40
59
71
82
94
129
131
166
File >B5140 ENVIRESPONS 12512-47493417, 7344-55610, 5.0ML PRG
Scan 337
22.29 min.
Bpk Ab 2086
SUB
47
59
71
82
94
129
131
166
File >B2978
MIX A 5UL #40539
Scan 360
23.51 min.
Bpk Ab 37272
SUB
TETRACHLOROETHENE
47
59
61
70
82
94
106
119
129
131
166

2 2 0510

Sample Number
7345

013-32

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Clayton Environmental
Client: ~~Case No~~: Envirosponse
Lab Sample ID No: B5141 (493418)
QC Report No: N/A
Sample Matrix: water
Contract No: N/A
Data Release Authorized By: [signature]
Date Sample Received: 9/18/86

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 9/22/86
Date Analyzed: 9/22/86
Conc/Dil Factor: 1 pH 6.9
Percent Moisture: (Not Decanted) N/A

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10 U
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	10 U
75-00-3	Chloroethane	10 U
75-09-2	Methylene Chloride	5 U
75-69-4	Trichlorofluoromethane	1 N
75-35-4	1, 1-Dichloroethene	5 U
75-34-3	1, 1-Dichloroethane	5 U
156-60-5	Trans-1, 2-Dichloroethene	1 J
67-66-3	Chloroform	5 U
107-06-2	1, 2-Dichloroethane	5 U
71-55-6	1, 1, 1-Trichloroethane	5 U
56-23-5	Carbon Tetrachloride	5 U
75-27-4	Bromodichloromethane	5 U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	7 N
10061-02-6	Trans-1, 3-Dichloropropene	5 U
79-01-6	Trichloroethene	7
124-48-1	Dibromochloromethane	5 U
79-00-5	1, 1, 2-Trichloroethane	5 U
71-43-2	Benzene	5 U
10061-01-5	cis-1, 3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U
75-25-2	Bromoform	5 U
127-18-4	Tetrachloroethene	6
79-34-5	1, 1, 2, 2-Tetrachloroethane	5 U
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
541-73-1	1, 3-Dichlorobenzene	15 N
106-46-7	1, 4-Dichlorobenzene	15 N
95-50-1	1, 2-Dichlorobenzene	7 N

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

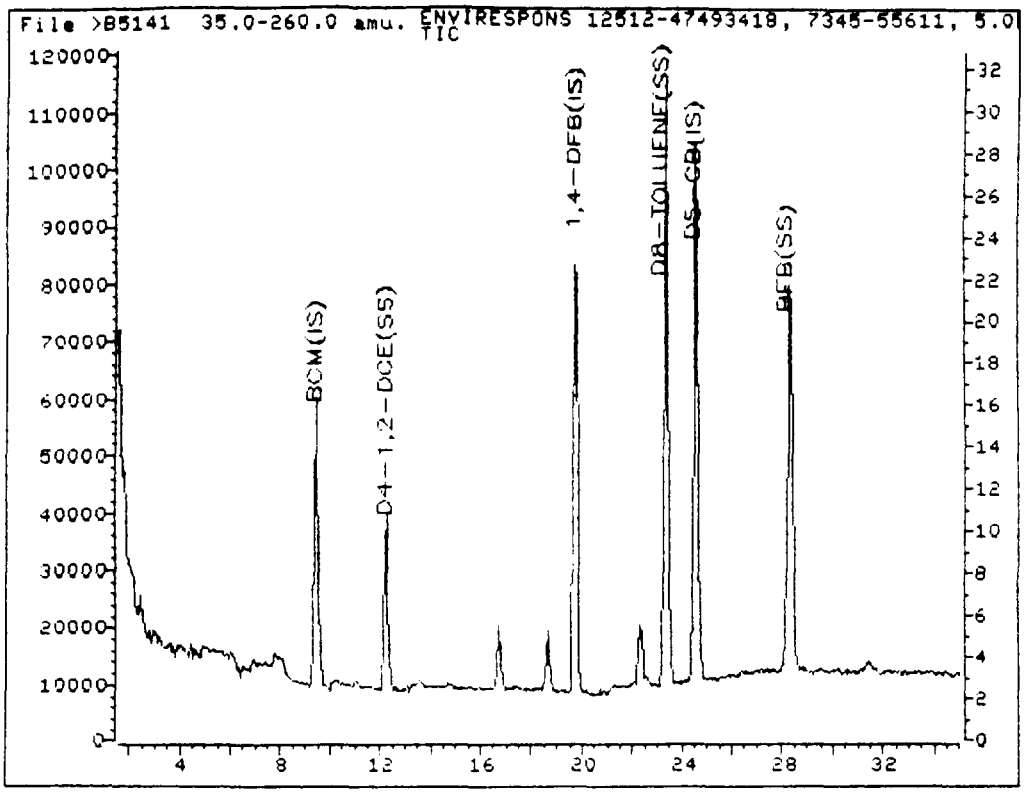
Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

M Matrix spike compound

N Instrument limit of detection

A Indicates a value less than the dilution corrected limit of detection but greater than the CRDL

014-22



MS data file header from : >B5141

Sample: ENVIRESPONS 12512-47 Operator: MIKE MS 9/22/86 14:56
Misc : 493418, 7345-55611, 5.0ML PRGD IS,SS=50PPB(SUL#41036)
Sys. #: 2B MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: VOAME2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 0 Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

015-22

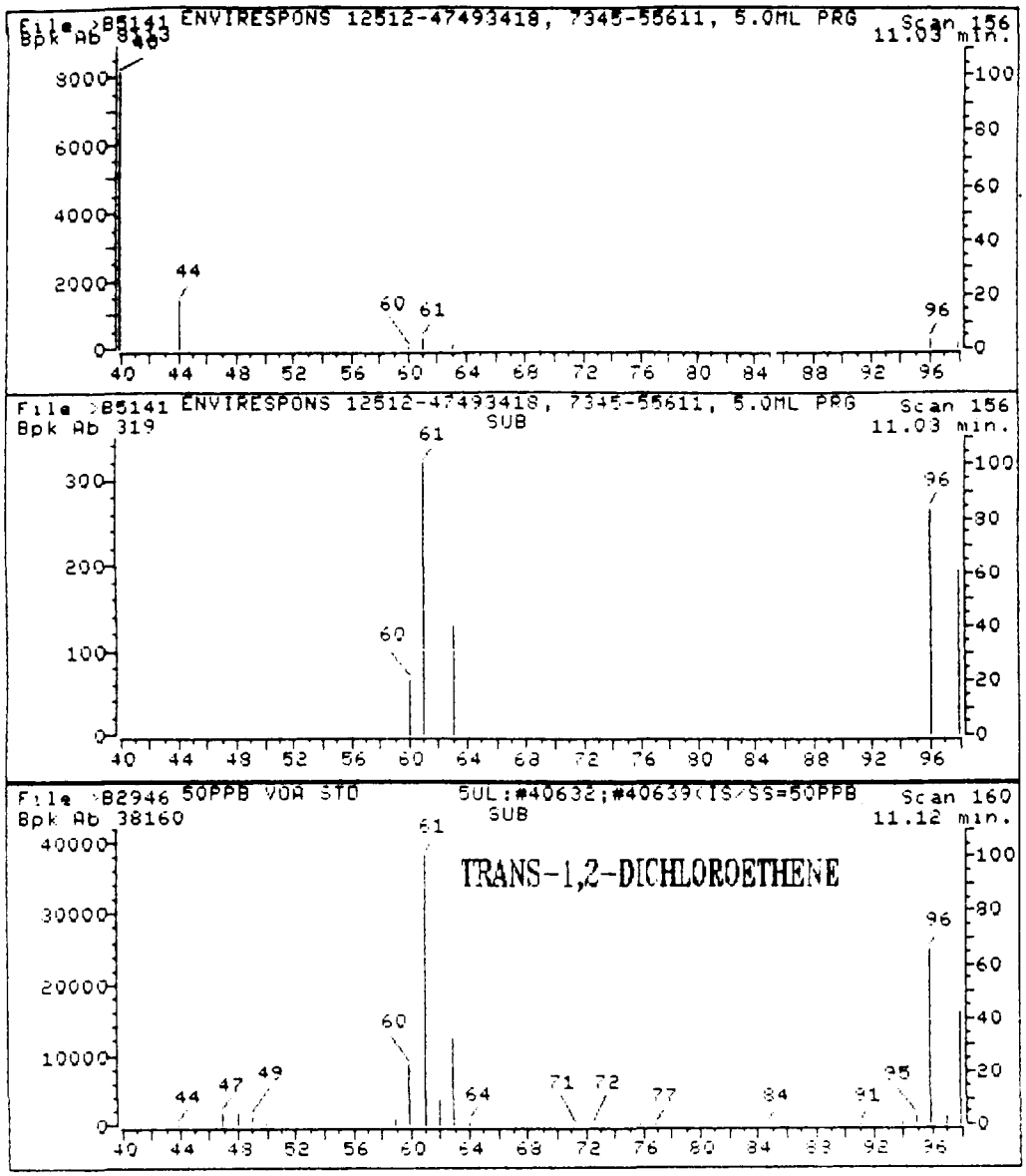
QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860922 15:36
Output File: ^P5141::AA Injected at: 860922 14:56
Data File: >B5141::BB Dilution Factor: 1.000
Name: ENVIRESPONS 12512-47
Misc: 493418, 7345-55611, 5.0ML PRGD IS,SS=50PPB(5UL#41036)

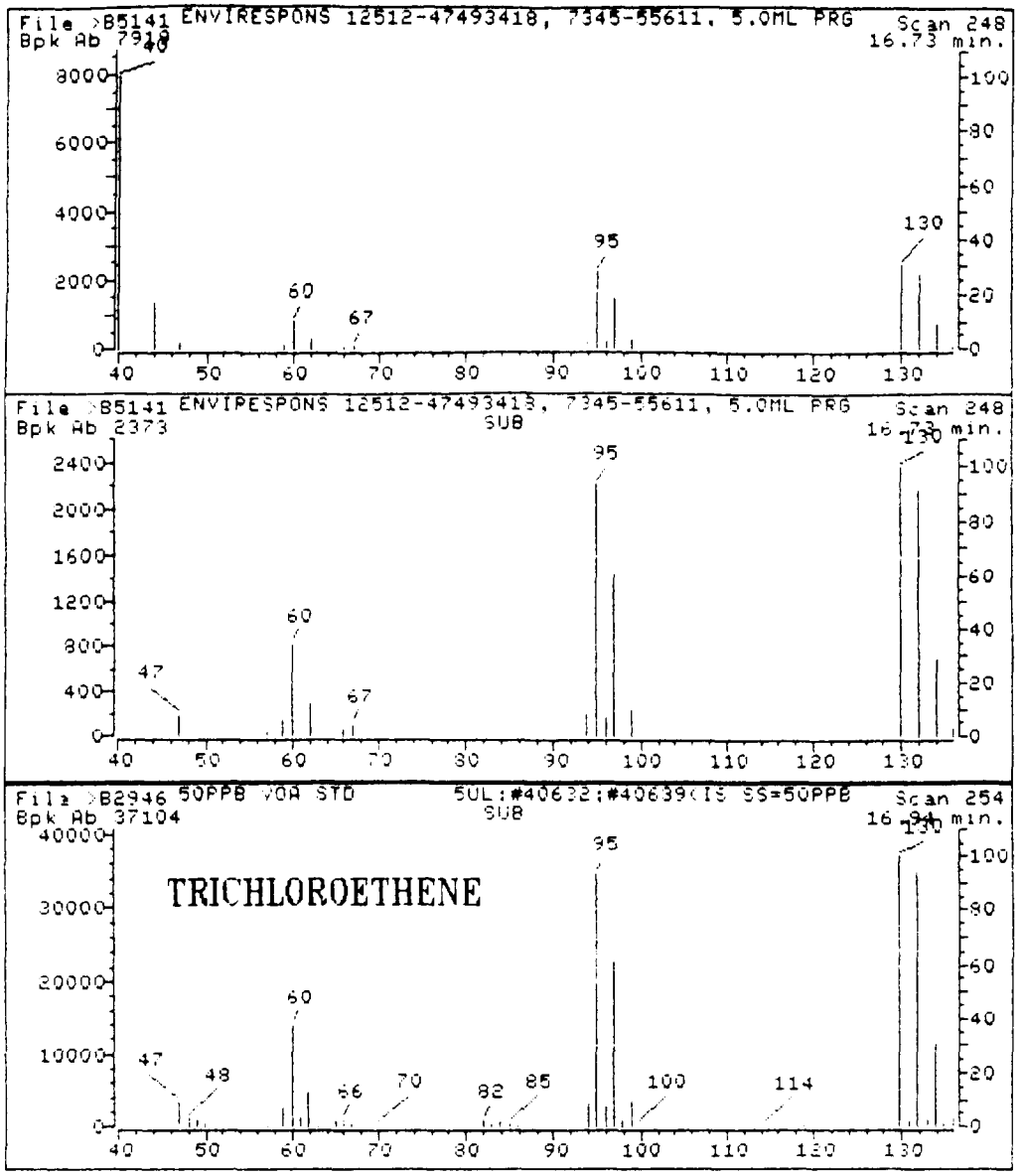
ID File: PPVID2::PS
Title: PRIORITY POLLUTANTS - METHOD 624
Last Calibration: 860922 11:16

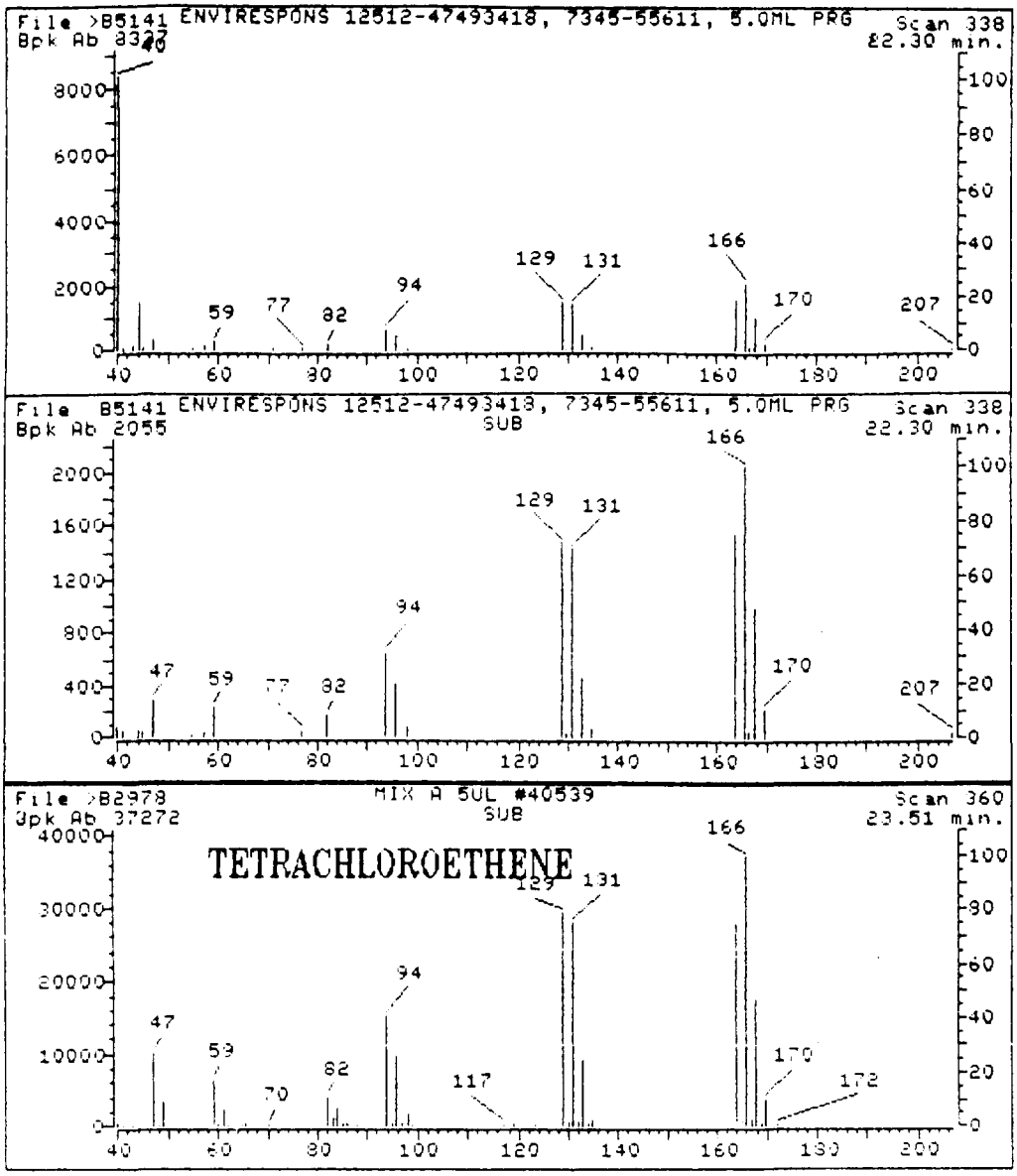
	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE(IS)	9.42	130	81889	50.00	ug/L	93
12)	TRANS-1,2-DICHLOROETHENE	11.03	156	2526	.96	ug/L	75
14)	D4-1,2-DICHLOROETHANE(SS)	12.27	176	38161	45.95	ug/L	100
16)	*1,4-DIFLUOROBENZENE(IS)	19.70	296	380549	50.00	ug/L	100
22)	TRICHLOROETHENE	16.73	248	25365	7.22	ug/L	97
29)	*D5-CHLOROBENZENE(IS)	24.53	374	359163	50.00	ug/L	100
30)	TETRACHLOROETHENE	22.30	338	16673	5.78	ug/L	98
32)	D8-TOLUENE(SS)	23.35	355	439150	49.82	ug/L	98
36)	4-BROMOFLUOROBENZENE(SS)	28.31	435	218167	50.91	ug/L	89

* Compound is ISTD


File >B5141 ENVIRESPONS 12512-47493418, 7345-55611, 5.0ML PRG Scan 156
Bpk Ab 8443
11.03 min.
44
60
61
96
File >B5141 ENVIRESPONS 12512-47493418, 7345-55611, 5.0ML PRG Scan 156
Bpk Ab 319
SUB
11.03 min.
61
60
96
File >B2946 50PPB VOA STD 5UL:#40632;#40639(IS/SS=50PPB Scan 160
Bpk Ab 38160
SUB
11.12 min.
TRANS-1,2-DICHLOROETHENE
61
60
44
47
49
64
71
72
77
84
91
95
96

016-74


File >B5141 ENVIRESPONS 12512-47493418, 7345-55611, 5.0ML PRG
Scan 248
Bpk Ab 7919
16.73 min.
File >B5141 ENVIRESPONS 12512-47493413, 7345-55611, 5.0ML PRG
Scan 248
Bpk Ab 2373
SUB
File >B2946 50PPB VOA STD
5UL:#40632:#40639(IS SS=50PPB
Scan 254
Bpk Ab 37104
SUB
TRICHLOROETHENE


File >B5141 ENVIRESPONS 12512-47493418, 7345-55611, 5.0ML PRG
Scan 338
Bpk Ab 8327
22.30 min.
59 77 82 94 129 131 166 170 207
File B5141 ENVIRESPONS 12512-47493418, 7345-55611, 5.0ML PRG
SUB
Scan 338
Bpk Ab 2055
22.30 min.
47 59 77 82 94 129 131 166 170 207
File >B2978
MIX A 5UL #40539
SUB
Scan 360
Bpk Ab 37272
23.51 min.
TETRACHLOROETHENE
47 59 70 82 94 117 129 131 166 170 172

10P1

2 2 0516

Sample Number
7346

Organics Analysis Data Sheet
(Page 1)

013-35

Laboratory Name: Clayton Enviromental
~~Case No~~ Client: Enviresponse Inc.
Lab Sample ID No: B5127 (493412)
QC Report No: N/A
Sample Matrix: Water
Contract No: N/A
Data Release Authorized By: [signature]
Date Sample Received: 9/18/86

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 9/21/86
Date Analyzed: 9/21/86
Conc/Dil Factor: 1 pH 7.2
Percent Moisture: (Not Decanted) N/A

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10 U
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	10 U
75-00-3	Chloroethane	10 U
75-09-2	Methylene Chloride	5 U
75-69-4	Trichlorofluoromethane	1 N
75-35-4	1, 1-Dichloroethene	5 U
75-34-3	1, 1-Dichloroethane	5 U
156-60-5	Trans-1, 2-Dichloroethene	1 J
67-66-3	Chloroform	5 U
107-06-2	1, 2-Dichloroethane	5 U
71-55-6	1, 1, 1-Trichloroethane	5 U
56-23-5	Carbon Tetrachloride	5 U
75-27-4	Bromodichloromethane	5 U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	7 N
10061-02-6	Trans-1, 3-Dichloropropene	5 U
79-01-6	Trichloroethene	5 U
124-48-1	Dibromochloromethane	5 U
79-00-5	1, 1, 2-Trichloroethane	5 U
71-43-2	Benzene	5 U
10061-01-5	cis-1, 3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U
75-25-2	Bromoform	5 U
127-18-4	Tetrachloroethene	5 U
79-34-5	1, 1, 2, 2-Tetrachloroethane	5 U
108-88-3	Toluene	1 J
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
541-73-1	1, 3-Dichlorobenzene	15 N
106-46-7	1, 4-Dichlorobenzene	15 N
95-50-1	1, 2-Dichlorobenzene	7 N

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

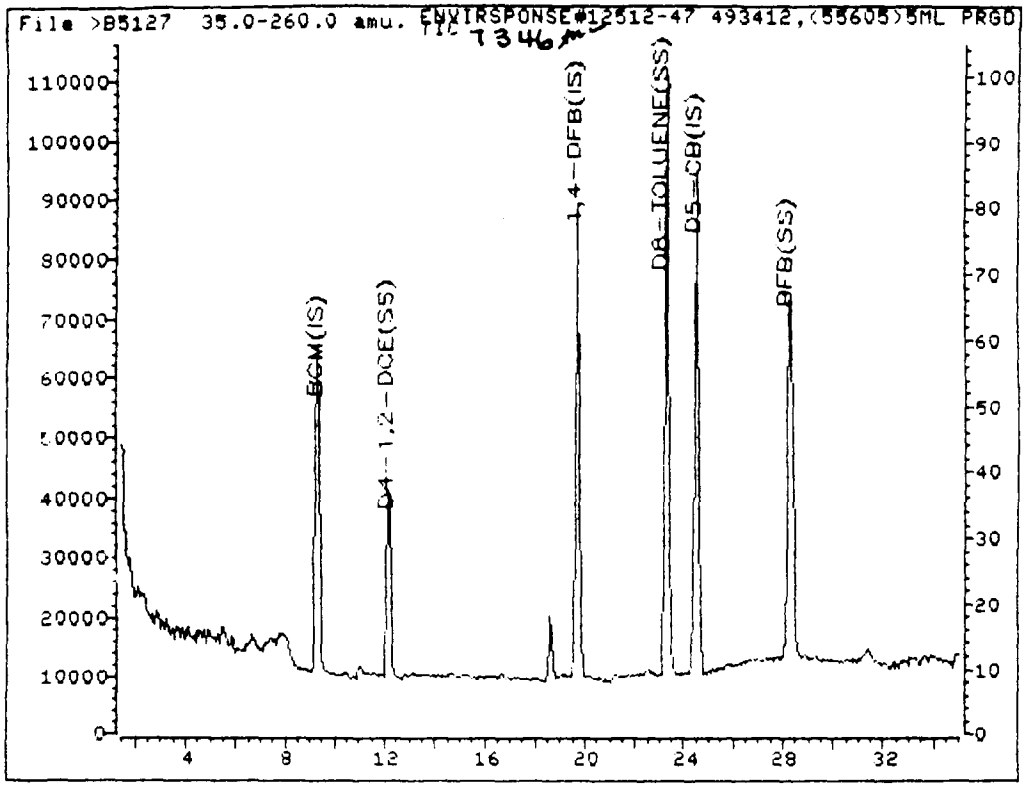
M Matrix spike compound

N Instrument limit of detection

A Indicates a value less than the dilution corrected limit of detection but greater than the CRDL

239

014-24



MS data file header from : >B5127

Sample: ENVIRSPONSE#12512-47 1346 AM Operator: MIKE MS 9/21/86 20:53
Misc : 493412,(55605)5ML PRGD. IS,SS=50PPB(SUL#41036)
Sys. #: 2 MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: VOAME2 Tuning file: VOATU2 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 0 Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

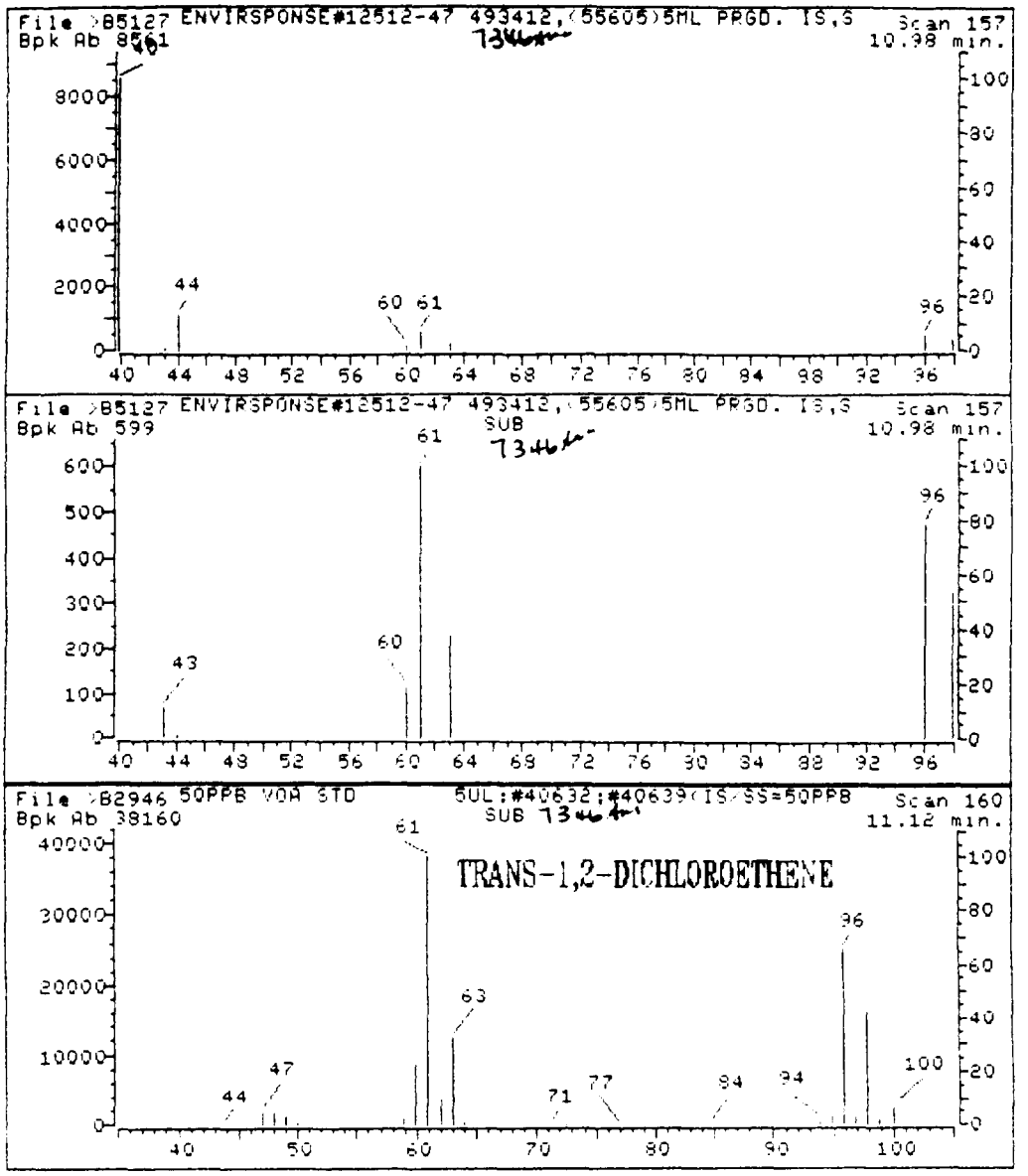
QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860921 21:43
Output File: ^P5127::AQ Injected at: 860921 20:53
Data File: >B5127::BB Dilution Factor: 1.000
Name: ENVIRSPONSE#12512-47-1346
Misc: 493412,(55605)5ML PRGD. IS,SS=50PPB(SUL#41036)

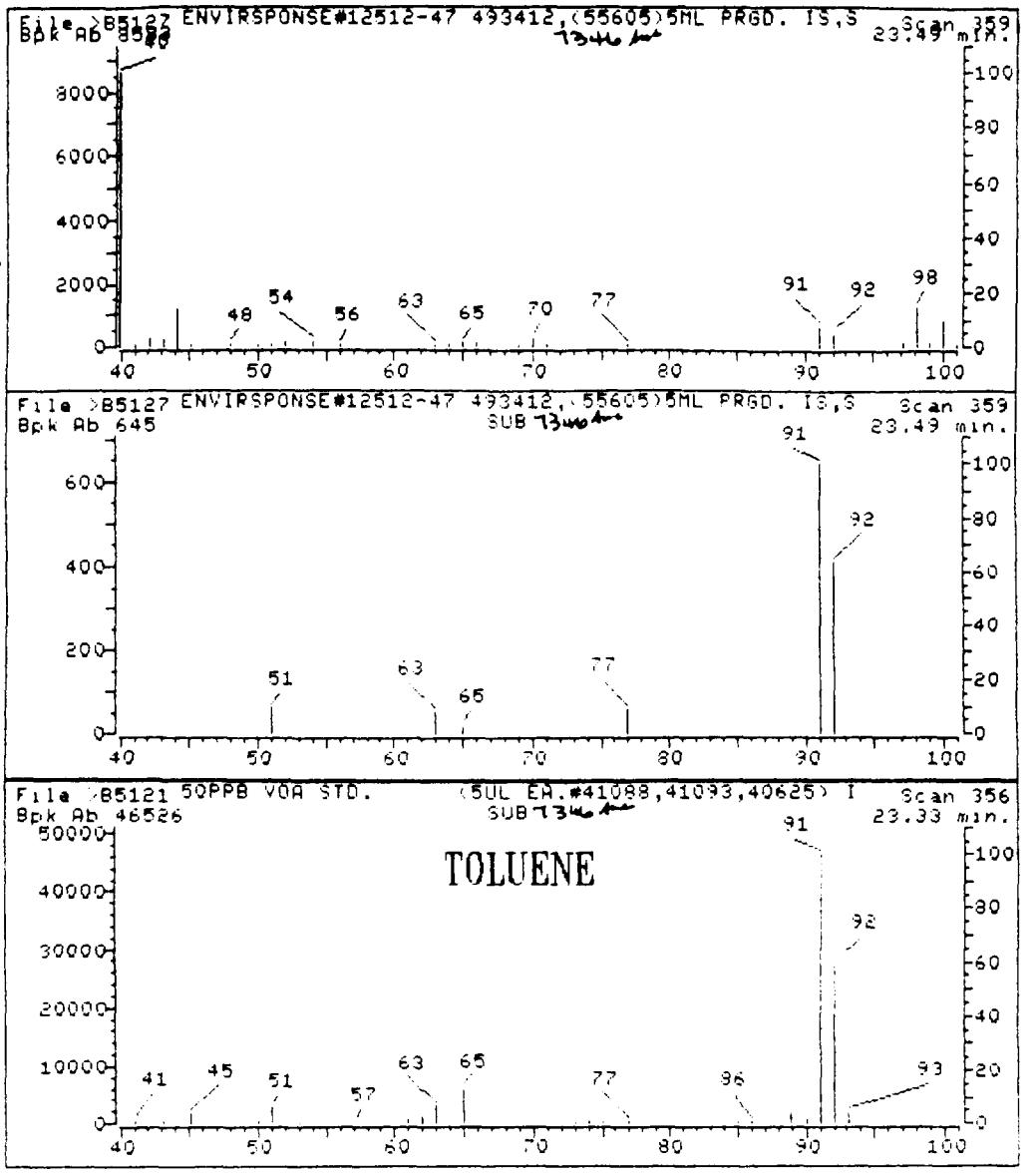
ID File: PPVID2::PS
Title: PRIORITY POLLUTANTS - METHOD 624
Last Calibration: 860921 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE(IS)	9.31	130	79909	50.00	ug/L	89
12)	TRANS-1,2-DICHLOROETHENE	10.98	157	3967	1.43	ug/L	82
14)	D4-1,2-DICHLOROETHANE(SS)	12.16	176	106504	50.10	ug/L	100
16)	*1,4-DIFLUOROBENZENE(IS)	19.65	297	375843	50.00	ug/L	100
29)	*D5-CHLOROBENZENE(IS)	24.48	375	316818	50.00	ug/L	100
32)	D8-TOLUENE(SS)	23.30	356	413234	50.93	ug/L	97
33)	TOLUENE	23.49	359	3511	.65	ug/L	88
36)	4-BROMOFLUOROBENZENE(SS)	28.26	436	200238	49.72	ug/L	95

* Compound is ISTD


File >B5127 ENVIRSPONSE#12512-47 493412,(55605)5ML PRGD. IS,S
Scan 157
10.98 min.
Bpk Ab 8561
8000
6000
4000
2000
0
44
60 61
96
File >B5127 ENVIRSPONSE#12512-47 493412,(55605)5ML PRGD. IS,S
Scan 157
10.98 min.
Bpk Ab 599
SUB
600
500
400
300
200
100
0
43
60
61
96
File >B2946 50PPB VOA STD
SUL:#40632:#40639(IS/SS=50PPB
Scan 160
11.12 min.
Bpk Ab 38160
SUB
40000
30000
20000
10000
0
TRANS-1,2-DICHLOROETHENE
44
47
61
63
71
77
94
94
96
100

1 of 1


File >B5127 ENVIRSPONSE#12512-47 493412,(55605)5ML PRGD. IS,S Scan 359
Bpk Ab 8546
23.49 min.
File >B5127 ENVIRSPONSE#12512-47 493412,(55605)5ML PRGD. IS,S Scan 359
Bpk Ab 645
SUB 73466
23.49 min.
File >B5121 50PPB VOA STD. (5UL EA.#41088,41093,40625) I Scan 356
Bpk Ab 46526
SUB 73466
23.33 min.
TOLUENE

2 2 0521

Laboratory Name: CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

Client Case No: Envirosponse

Sample Number: 7353

013-39

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9-18-86

Date Analyzed: 9-23-86

Conc/Dil Factor: 1

Percent Moisture (Decanted) NA

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☑Yes

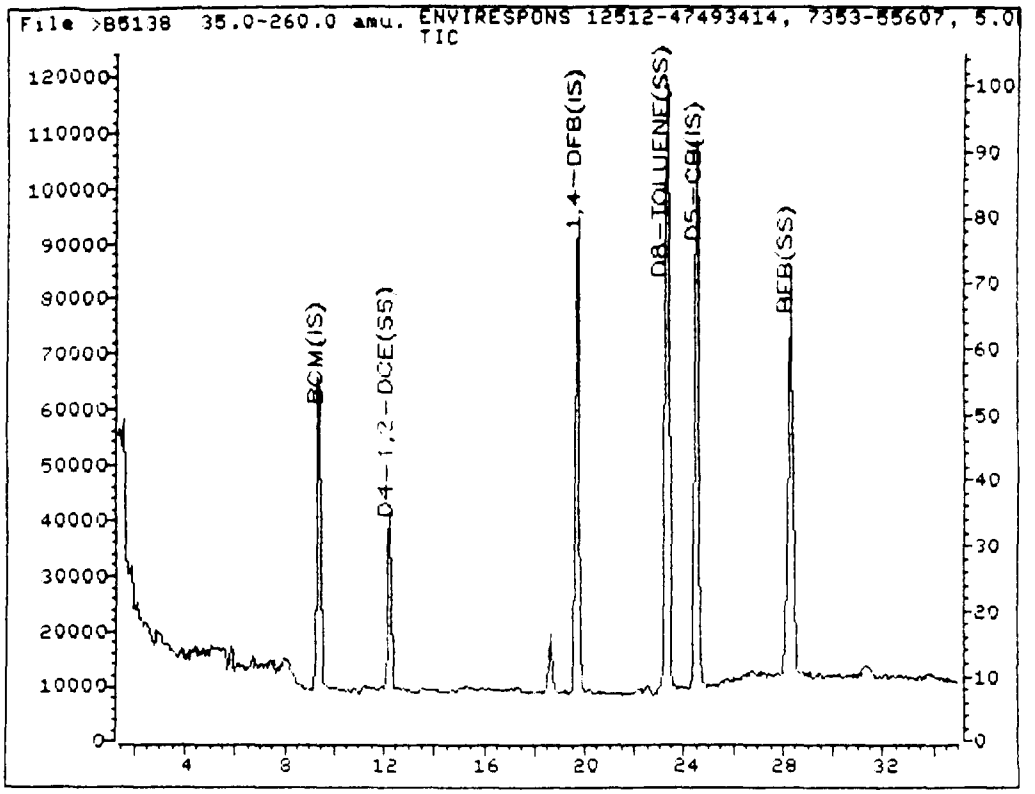
Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	11 N
108-95-2	Phenol	8 J
111-44-4	bis(-2-Chloroethyl)Ether	10 u
95-57-8	2-Chlorophenol	10 u
541-73-1	1, 3-Dichlorobenzene	10 u
106-46-7	1, 4-Dichlorobenzene	10 u
95-50-1	1, 2-Dichlorobenzene	10 u
39638-32-9	bis(2-chloroisopropyl)Ether	10 u
621-64-7	N-Nitroso-Di-n-Propylamine	10 u
67-72-1	Hexachloroethane	10 u
98-95-3	Nitrobenzene	10 u
78-59-1	Isophorone	10 u
88-75-5	2-Nitrophenol	10 u
105-67-9	2, 4-Dimethylphenol	10 u
111-91-1	bis(-2-Chloroethoxy)Methane	10 u
120-83-2	2, 4-Dichlorophenol	10 u
120-82-1	1 2, 4-Trichlorobenzene	10 u
91-20-3	Naphthalene	10 u
87-68-3	Hexachlorobutadiene	10 u
59-50-7	4-Chloro-3-Methylphenol	10 u
77-47-4	Hexachlorocyclopentadiene	10 u
88-06-2	2, 4 6-Trichlorophenol	10 u
91-58-7	2-Chloronaphthalene	10 u
131-11-3	Dimethyl Phthalate	10 u
208-96-8	Acenaphthylene	10 u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	10 u
51-28-5	2, 4-Dinitrophenol	50 u
100-02-7	4-Nitrophenol	50 u
121-14-2	2, 4-Dinitrotoluene	10 u
606-20-2	2, 6-Dinitrotoluene	10 u
84-66-2	Diethylphthalate	10 u
7005-72-3	4-Chlorophenyl-phenylether	10 u
86-73-7	Fluorene	3 J
534-52-1	4, 6-Dinitro-2-Methylphenol	50 u
86-30-6	N-Nitrosodiphenylamine (1)	10 u
101-55-3	4-Bromophenyl-phenylether	10 u
118-74-1	Hexachlorobenzene	10 u
87-86-5	Pentachlorophenol	50 u
85-01-8	Phenanthrene	10 u
120-12-7	Anthracene	10 u
84-74-2	Di-n-Butylphthalate	10 u
206-44-0	Fluoranthene	10 u
92-87-5	Benzidine	160 N
129-00-0	Pyrene	10 u
85-68-7	Butylbenzylphthalate	12
91-94-1	3, 3'-Dichlorobenzidine	28 N
56-55-3	Benzo(a)Anthracene	10 u
117-81-7	bis(2-Ethylhexyl)Phthalate	10
218-01-9	Chrysene	10 u
117-84-0	Di-n-Octyl Phthalate	10
205-99-2	Benzo(b)Fluoranthene	11 N
207-08-9	Benzo(k)Fluoranthene	10 u
50-32-8	Benzo(a)Pyrene	10 u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	13 N
53-70-3	Dibenzo(a, h)Anthracene	16 N
191-24-2	Benzo(g, h, i)Perylene	17 N

(1)-Cannot be separated from diphenylamine

Form I



MS data file header from : >B5138

Sample: ENVIRESPONS 12512-47 Operator: MIKE MS 8/22/86 12:2
Misc : 493414, 7353-55607, 5.0ML PRGD IS,SS=50PPB(SUL#41036)
Sys. #: 2B MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: VOAME2 Tuning file: VOATU2 No. of extra records : 1
Source temp.: 200 Analyzer temp.: 0 Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

015-26

QUANT REPORT

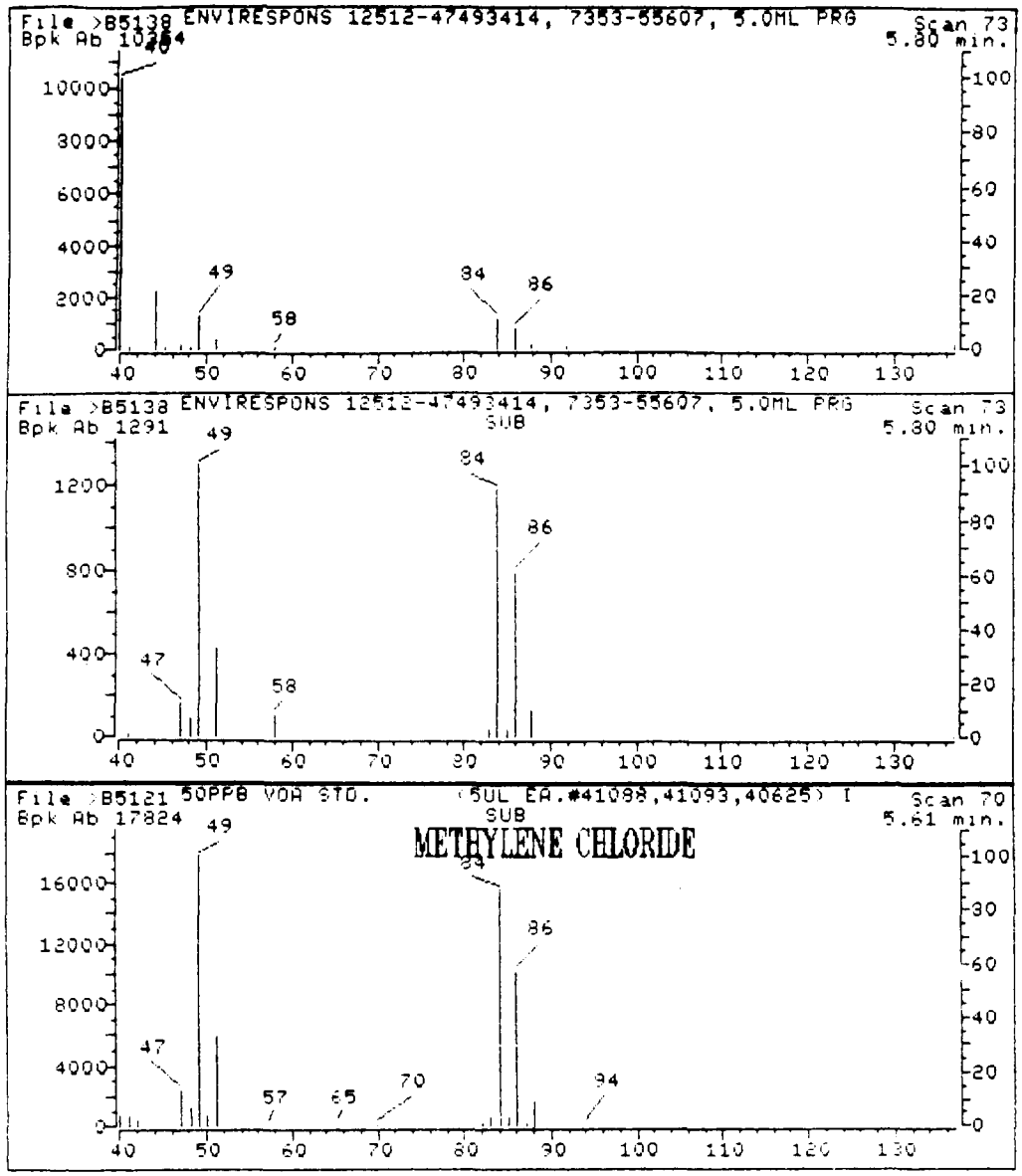
Operator ID: MIKE Quant Rev: 4 Quant Time: 860922 13:11
Output File: ^P5138::AA Injected at: 860922 12:27
Data File: >B5138::B8 Dilution Factor: 1.000
Name: ENVIRESPONS 12512-47-7353
Misc: 493414, 7353-55607, 5.0ML PRGD IS,SS=50PPB(5UL#41036)

ID File: PPVID2::PS
Title: PRIORITY POLLUTANTS - METHOD 624
Last Calibration: 860922 11:16

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE(IS)	9.33	130	88970	50.00	ug/L	89
6)	METHYLENE CHLORIDE	5.80	73	12389	3.30	ug/L	70
14)	D4-1,2-DICHLOROETHANE(SS)	12.24	177	99007	42.65	ug/L	100
16)	*1,4-DIFLUOROBENZENE(IS)	19.73	298	424178	50.00	ug/L	100
29)	*D5-CHLOROBENZENE(IS)	24.50	375	375054	50.00	ug/L	100
32)	D8-TOLUENE(SS)	23.33	356	454136	49.34	ug/L	99
36)	4-BROMOFLUOROBENZENE(SS)	28.28	436	229130	51.20	ug/L	88

* Compound is ISTD

016-81


File >B5138 ENVIRESPONS 12512-47493414, 7353-55607, 5.0ML PRG
Scan 73
5.80 min.
Bpk Ab 10354
40
49
58
84
86
File >B5138 ENVIRESPONS 12512-47493414, 7353-55607, 5.0ML PRG
SUB
Scan 73
5.80 min.
Bpk Ab 1291
49
84
86
47
58
File >B5121 50PPB VOA STD. (5UL EA.#41088,41093,40625) I
SUB
Scan 70
5.61 min.
Bpk Ab 17824
METHYLENE CHLORIDE
49
84
86
47
57
65
70
94

2 2 0525

CLINTON ENVIRONMENTAL CONSULTANTS, INC.

Laboratory Name _____

Case No _____

LABORATORY GENERATED INSTRUMENT LIMIT OF DETECTION

HP-5733 A

019-03

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration Low Medium (Circle One)

Date Extracted/Prepared: _____

Date Analyzed: June 1-3 1986

Conc./Dil Factor: _____

Percent Moisture (decanted) _____

GPC Cleanup ☐Yes ☐No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		* ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.008
319-85-7	Beta-BHC	0.016
319-86-8	Delta-BHC	0.012
58-89-9	Gamma-BHC (Lindane)	0.01
76-44-8	Heptachlor	0.015
309-00-2	Aldrin	0.016
1024-57-3	Heptachlor Epoxide	0.02
959-98-8	Endosulfan I	0.05
60-57-1	Dieldrin	0.028
72-55-9	4,4'-DDE	0.018
72-20-8	Endrin	0.042
33213-65-9	Endosulfan II	0.027
72-54-8	4,4'-DDD	0.037
1031-07-8	Endosulfan Sulfate	0.056
50-29-3	4,4'-DDT	0.083
72-43-5	Methoxychlor	0.11
53494-70-5	Endrin Ketone	0.074
57-74-9	Chlordane	0.086
8001-35-2	Toxaphene	0.36
12674-11-2	Aroclor-1016	0.012
11104-28-2	Aroclor-1221	0.25
11141-16-5	Aroclor-1232	0.13
53469-21-9	Aroclor-1242	0.001
12672-29-6	Aroclor-1248	0.27
11097-69-1	Aroclor-1254	0.26
11096-82-5	Aroclor-1260	0.18

*ug/L equivalent to 10 x total ug injected

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s _____ V_t _____ V_i _____

Form 1

7 85

Pesticide Evaluation Standards Summary
(Page 1)

Region: N/A
Client: ENVIRESPONSE INC.
Date of Analysis 23-25 Sept. 1986

Laboratory: Clayton
GC Column: Packed
Instrument ID: HP-5733A

Evaluation Check for Linearity

Laboratory ID	Run* 123	Run* 127	Run* 128	
Pesticide	Calibration Factor Eval. Mix A	Calibration Factor Eval. Mix B	Calibration Factor Eval. Mix C	% RSD (≤10%)
Aldrin	158642857	150638571	177350000	8.5
Endrin	82635000	76548000	73768000	5.8
4,4'- DDT(1)	62052000	64096000	64640000	2.1
Dibutyl Chlorendate	112630000	99686000	94452000	9.2

Evaluation Check for 4,4'- DDT/Endrin Breakdown
(percent breakdown expressed as total degradation)

	Laboratory I.D.	Time of Analysis	Endrin	4,4'- DDT	Combined(2)
Eval Mix B 72 Hour	Run* 127	13:14	0.37	6.5	
Eval Mix B	Run* 144	03:37	2.6*	6.9	
Eval Mix B	Run* 158	18:04	0.0	4.3	
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					

* manual peak height measurement was used for calculation

(1) See Exhibit E, Section 7.5.4
(2) See Exhibit E, Section 7.3.1.2.2.1

T.O. 9-25-86
R.H. 9-30-86

2 2 0527
024-02

Pesticide Evaluation Standards Summary
(Page 2)
Evaluation of Retention Time Shift for Dibutyl Chlorendate
Report all standards, blanks and samples

SMO Sample No.	Lab ID	Time of Analysis	Percent Diff.	SMO Sample No.	Lab ID	Time of Analysis	Percent Diff
End Std Mix A	#125	10:57	0.00				
End Std Mix B	#127	13:14	0.23				
End Std Mix C	#128	13:48	0.23				
End Std Mix A	#129	14:26	0.27				
End Std Mix B	#130	15:00	0.31				
Toxaphene	#131	15:37	0.35				
Tech. Chlordane	#132	16:43	0.31				
Methoxychlor	#133	17:24	0.35				
Aroclor 1221	#134	18:06	0.35				
Aroclor 1232	#135	18:48	0.31				
Aroclor 1242	#136	19:23	0.35				
Aroclor 1248	#137	20:25	0.31				
Aroclor 1254	#138	21:26	0.059				
M-8141 I (4/10)	#139	22:28	0.16				
7332	#140	23:30	0.34				
7333	#142	01:33	0.12				
7346	#143	02:35	0.078				
End Std Mix B	#144	03:37	0.039				
7335	#145	08:12	0.078				
7333	#146	08:54	0.039				
7341	#147	09:46	0.12				
7342	#148	10:32	0.19				
7344	#149	11:22	0.16				
End Std Mix A	#150	12:09	[illegible]				
7333 Dup.	#153	13:56	*				
7345	#154	14:43	0.23				
7346 MS (4/10)	#155	15:30	0.21				
7334 (1/100)	#156	16:21	DL				
End Std Mix B	#158	18:04	0.31				
7341 (1/10)	#159	19:06	0.43				
7334 (1/50)	#165	07:25	DL				
7332 (1/10)	#166	08:23	0.35				
7334 (1/10)	#167	09:09	*				
End Std Mix B	#188	22:04	0.51				

DL - Diluted Out
[illegible] Percent Diff. o.w. be
Form VIII (Continued)

T.O. 10-2-86

7 85

2 2 0528
024-09

Pesticide Evaluation Standards Summary
(Page 1)

Region: N/A
Client: ENVIRESPONSE, INC
Date of Analysis: 29-30 Sept. 1986

Laboratory: Clayton
GC Column: Packed
Instrument ID: HP 5733A

Evaluation Check for Linearity

Laboratory ID	Run # 247	Run # 248	Run # 249	
Pesticide	Calibration Factor Eval. Mix A	Calibration Factor Eval. Mix B	Calibration Factor Eval Mix C	% RSD (≤10%)
Aldrin	760980810	708733154	660028860	7.1 *
Endrin	77684000	70528000	65658000	8.5
4,4'- DDT(1)	56603000	60380000	56288000	3.9
Dibutyl Chlorendate	99030000	88250000	83522000	8.8

Evaluation Check for 4,4'- DDT/Endrin Breakdown
(percent breakdown expressed as total degradation)

	Laboratory I.D.	Time of Analysis	Endrin	4,4'- DDT	Combined(2)
Eval Mix B 72 Hour	Run # 248	10:17	5.9	12	
Eval Mix B	Run # 267	01:35	3.9	9.4	
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					

* Calculated by Ar/Ht ratio

(1) See Exhibit E, Section 7.5.4
(2) See Exhibit E, Section 7.3.1.2.2.1

R.H 9, 30, 1986
T.O. 10-1-86

2 2 0529
024-04

Pesticide Evaluation Standards Summary
(Page 2)
Evaluation of Retention Time Shift for Dibutyl Chlorendate
Report all standards, blanks and samples

SMO Sample No.	Lab I.D.	Time of Analysis	Percent Diff.	SMO Sample No.	Lab I.D.	Time of Analysis	Percent Diff
Eval Std Mix A	#247	09:43	0.00				
Eval Std Mix B	#248	10:17	0.16				
Eval Std Mix C	#249	10:52	0.23				
Ind Std Mix A	#250	11:40	0.35				
Ind Std Mix B	#251	12:15	0.27				
Toxaphene	#252	12:55	0.35				
Tech. Chlordane	#253	13:36	0.35				
Aroclor 1016/1260	#254	14:18	0.31				
Aroclor 1221	#255	15:00	0.43				
Aroclor 1232	#256	15:34	0.12				
Aroclor 1242	#257	16:06	0.31				
Aroclor 1248	#258	16:39	0.47				
Aroclor 1254	#259	17:20	0.43				
7334 (1/100)	#261	19:24	DL				
7334 Dup. (1/100)	#262	20:26	DL				
7334 MS (1/100)	#263	21:28	DL				
Eval Std Mix B	#267	01:35	0.51				
7334 (1/10)	#268	02:36	*				
7334 Dup (1/10)	#270	04:40	*				
M-Blk (oil)	#274	08:49	0.51				
Ind Std Mix B	#279	11:36	0.12				

DL = Diluted Out. Late percent diff. due to

T.O. 10-2-86

7 85

Form VIII (Continued)

Pesticide Evaluation Standards Summary
(Page 1)

024-05
2 2 0530

Case No: N/A Region: N/A
Client: Envirosphere
Date of Analysis 30 Sept - 1 Oct 1986

Laboratory: Clayton
GC Column: Capillary
Instrument ID: HP-5890A

Evaluation Check for Linearity

Laboratory ID	Run* 457	Run* 458	Run* 459		
Pesticide	Calibration Factor Eval. Mix A	Calibration Factor Eval. Mix B	Calibration Factor Eval. Mix C	% RSD (≤10%)	
Aldrin	8984286	9821489	9925357	5.4	
Endrin	5704500	7015000	8524500	20.	*
4,4'- DDT(1)	3638050	4771400	5475800	20.	*
Dibutyl Chlorendate	4000000	6089800	7782500	32.	*

Evaluation Check for 4,4'- DDT/Endrin Breakdown
(percent breakdown expressed as total degradation)

	Laboratory I.D.	Time of Analysis	Endrin	4,4'- DDT	Combined(2)
Eval Mix B 72 Hour	Run* 458	13:12	11.	0.0	
Eval Mix B	Run* 470	21:46	8.8	3.2	
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					

* Not used for quantitation
(1) See Exhibit E, Section 7.5.4
(2) See Exhibit E, Section 7.3.1.2.2.1

T.O. 10-1-86

Pesticide Evaluation Standards Summary
(Page 2)
Evaluation of Retention Time Shift for Dibutyl Chlorendate
Report all standards, blanks and samples

SMO Sample No.	Lab I.D.	Time of Analysis	Percent Diff.	SMO Sample No.	Lab I.D.	Time of Analysis	Percent Diff.
Ind Std Mix A	*457	12:36	0.00				
Ind Std Mix B	*458	13:12	0.00				
Ind Std Mix C	*459	13:48	0.00				
Ind Std Mix A	*460	14:25	0.00				
Ind Std Mix B	*461	15:01	0.00				
Aroclor 1016/1260	*462	15:37	0.00				
Aroclor 1242	*463	16:23	0.038				
M-BLK (1/10)	*464	17:10	0.038				
7353 (1/10)	*465	17:56	0.038				
7341 (1/10)	*466	18:42	0.038				
7334 (1/50)	*468	20:14	DL				
Ind Std Mix B	*470	21:46	0.00				
M-BLK (1/10)	*472	23:19	0.038				
7334 (1/100)	*473	00:05	DL				
7334 Dup (1/100)	*474	00:51	DL				
Ind Std Mix B	*477	01:00	0.038				

DL = Below Det Limit

Form VIII (Continued)

7 85

PESTICIDE/PCB S[illegible]NDARDS SUMMARY

Laboratory Clayton

Client: ENVIRESPONSE, INC. GC Column Packed GC Instrument ID HP-5733A

	DATE OF ANALYSIS 23 Sept. 1986 TIME OF ANALYSIS 14:26 - 21:26 LABORATORY ID Run# 129 - Run# 138				DATE OF ANALYSIS 24 Sept. 1986 TIME OF ANALYSIS 12:09 LABORATORY ID Run# 150			
COMPOUND	RT	RETENTION TIME WINDOW	CALIBRATION FACTOR	CONF. OR QUANT.	RT	CALIBRATION FACTOR	CONF. OR QUANT.	PERCENT DIFF.**
alpha-BHC	2.74	2.68 - 2.80	127026829	Quant.			Quant.	
beta-BHC	3.64	3.56 - 3.72	68643750					
delta-BHC	4.21	4.10 - 4.32	97123333					
gamma-BHC	3.31	3.22 - 3.40	127190000		3.32	121536000		4.4
Heptachlor	4.00	3.90 - 4.10	132742000		4.01	127050000		4.3
Aldrin	4.76	4.64 - 4.88	136851429		4.76	136730000		0.089
Heptachlor Epoxide	6.58	6.42 - 6.74	130287500		6.59	122182500		6.2
Endosulfan I	8.12	7.95 - 8.29	124281818		8.13	115945454		6.7
Dieldrin	9.70	9.47 - 9.93	122258333		9.71	114366667		6.5
4,4'-DDE	9.14	8.91 - 9.37	114772727					
Endrin	11.66	11.38 - 11.94	73072727					
Endosulfan II	13.71	13.41 - 14.01	115300000		13.73	107475000		6.8
4,4'-DDD	13.29	12.97 - 13.61	89325000					
Endosulfan Sulfate	19.76	19.28 - 20.24	67576000					
4,4'-DDT	15.85	15.51 - 16.19	52480000		15.86	51356000		2.1
Methoxychlor	28.57	27.99 - 29.15	23381429		28.56	23605714		0.96
Endrin Ketone	27.51	26.87 - 28.15	80512821					
Tech. Chlordane	7.31	7.23 - 7.39	24488120					
alpha-Chlordane*								
gamma-Chlordane*								
Toxaphene	13.98	13.76 - 14.20	15884854					
Aroclor - 1016	3.95	3.92 - 3.98	26018133					
Aroclor - 1221	3.18	3.15 - 3.21	4486425					
Aroclor - 1232	3.95	3.90 - 4.00	12613800					
Aroclor - 1242	3.95	3.85 - 4.05	25773013					
Aroclor - 1248	4.76	4.66 - 4.86	32319720					
Aroclor - 1254	10.11	10.08 - 10.14	38635000					
Aroclor - 1260	15.76	15.64 - 15.88	69789300					

* SEE EXHIBIT E, PART 7

** CONF. = CONFIRMATION (<20% DIFFERENCE)
QUANT. = QUANTITATION (<15% DIFFERENCE)

7/85

FORM IX

9.0. 9-24-86

0532

2 2
025-01

299

PESTICIDE/PCB S[illegible]NDARDS SUMMARY

Laboratory Clayton

Client: ENIRESPONSE, INC. GC Column Packed GC Instrument ID HP-5733A

	DATE OF ANALYSIS 23 Sept. 1986 TIME OF ANALYSIS 14:26 - 21:26 LABORATORY ID Run# 129 - Run# 138				DATE OF ANALYSIS 25 Sept. 1986 TIME OF ANALYSIS 22:04 LABORATORY ID Run# 188			
COMPOUND	RT	RETENTION TIME WINDOW	CALIBRATION FACTOR	CONF. OR QUANT.	RT	CALIBRATION FACTOR	CONF. OR QUANT.	PERCENT DIFF.**
alpha - BHC	2.74	2.68 - 2.80	127026829	Quant.	2.73	111834146	Quant.	12.
beta - BHC	3.64	3.56 - 3.72	68643750		3.62	59121250		14.
delta - BHC	4.21	4.10 - 4.32	97123333		4.20	88731667		8.6
gamma - BHC	3.31	3.22 - 3.40	127190000					
Heptachlor	4.00	3.90 - 4.10	132742000					
Aldrin	4.76	4.64 - 4.88	136851429					
Heptachlor Epoxide	6.58	6.42 - 6.74	130287500					
Endosulfan I	8.12	7.95 - 8.29	124281818					
Dieldrin	9.70	9.47 - 9.93	122258333					
4,4'-DDE	9.14	8.91 - 9.37	114772727		9.11	97727273		15.
Endrin	11.66	11.38 - 11.94	73072727		11.63	66668182		8.8
Endosulfan II	13.71	13.41 - 14.01	115300000					
4,4'-DDD	13.29	12.97 - 13.61	89325000		13.22	79420000		11.
Endosulfan Sulfate	19.76	19.28 - 20.24	67376000		19.69	71544000		6.2
4,4'-DDT	15.85	15.51 - 16.19	52480000					
Methoxychlor	28.57	27.99 - 29.15	23381429					
Endrin Ketone	27.51	26.87 - 28.15	80512821		27.44	74031339		8.1
Tech. Chlordane	7.31	7.23 - 7.39	24488120					
alpha - Chlordane*								
gamma - Chlordane*								
Toxaphene	13.98	13.76 - 14.20	15884854					
Aroclor - 1016	3.95	3.92 - 3.98	26018133					
Aroclor - 1221	3.18	3.15 - 3.21	4486425					
Aroclor - 1232	3.95	3.90 - 4.00	12613800					
Aroclor - 1242	3.95	3.85 - 4.05	25773013					
Aroclor - 1248	4.76	4.66 - 4.86	32319720					
Aroclor - 1254	10.11	10.08 - 10.14	38635000					
Aroclor - 1260	15.76	15.64 - 15.88	69789300					

* SEE EXHIBIT E, PART 7

** CONF. = CONFIRMATION (<20% DIFFERENCE)
QUANT. = QUANTITATION (<15% DIFFERENCE)

FORM IX

7/85

025-02

0533

90.9-25-86

300

PESTICIDE/PCB S NDARDS SUMMARY

Laboratory Clayton

CLIENT: ENVIRESPONSE, INC. GC Column Packed GC Instrument ID HP5733A

	DATE OF ANALYSIS 29 Sept 1986				DATE OF ANALYSIS 30 Sept. 1986			
	TIME OF ANALYSIS 11:40 - 17:20				TIME OF ANALYSIS 11:36			
	LABORATORY ID Run# 250 - Run# 259				LABORATORY ID Run# 279			
COMPOUND	RT	RETENTION TIME WINDOW	CALIBRATION FACTOR	CONF. OR QUANT.	RT	CALIBRATION FACTOR	CONF. OR QUANT.	PERCENT DIFF. **
alpha - BHC	2.72	2.66 - 2.78	119636585	Quant.	2.73	102439024	Quant.	14.
beta - BHC	3.62	3.54 - 3.70	63990000		3.63	57116250		11.
delta - BHC	4.19	4.08 - 4.30	88740000		4.20	81498333		8.2
gamma - BHC	3.30	3.21 - 3.39	118820000					
Heptachlor	3.98	3.88 - 4.08	123908000					
Aldrin	4.74	4.62 - 4.86	125814286					
Heptachlor Epoxide	6.55	6.39 - 6.71	119091250					
Endosulfan I	8.08	7.91 - 8.25	128854546					
Dieldrin	9.66	9.43 - 9.89	111166667					
4,4'-DDE	9.11	8.88 - 9.34	103700000		9.12	92700000		11.
Endrin	11.61	11.33 - 11.89	64986364		11.63	63927273		1.6
Endosulfan II	13.65	13.35 - 13.95	104495000					
4,4'-DDD	13.24	12.92 - 13.56	80205000		13.24	74490000		7.1
Endosulfan Sulfate	19.66	19.18 - 20.14	65988000		19.68	68396000		6.9
4,4'-DDT	15.79	15.45 - 16.13	45572000					
Methoxychlor	28.46	27.88 - 29.04	21631429					
Endrin Ketone	27.41	26.77 - 28.05	74660969		27.45	72441595		3.0
Tech. Chlordane	7.28	7.20 - 7.36	22321300					
alpha-Chlordane*								
gamma-Chlordane*								
Toxaphene	13.93	13.71 - 14.15	14383246					
Aroclor - 1016	3.94	3.91 - 3.97	24044267					
Aroclor - 1221	3.17	3.14 - 3.20	3959010					
Aroclor - 1232	3.94	3.89 - 3.99	11177850					
Aroclor - 1242	3.94	3.84 - 4.04	24547387					
Aroclor - 1248	4.74	4.64 - 4.84	29318893					
Aroclor - 1254	10.04	10.01 - 10.07	34746487					
Aroclor - 1260	15.73	15.61 - 15.85	63880287					

* SEE EXHIBIT E, PART 7

** CONF. = CONFIRMATION (<20% DIFFERENCE)
QUANT. = QUANTITATION (<15% DIFFERENCE)

T.O.-30 Sept. 1986

FORM IX

7/85

PESTICIDE/PCB S[illegible]NDARDS SUMMARY

Client: Envirospace Laboratory Clayton

GC Column Capillary GC Instrument ID [illegible]-5890A

	DATE OF ANALYSIS 30 Sept. 1986 TIME OF ANALYSIS 14:25 - 16:23 LABORATORY ID Run# 460 - Run# 463				DATE OF ANALYSIS 1 Oct. 1986 TIME OF ANALYSIS 09:08 LABORATORY ID Run# 477			
COMPOUND	RT	RETENTION TIME WINDOW	CALIBRATION FACTOR	CONF. OR QUANT.	RT	CALIBRATION FACTOR	CONF. OR QUANT.	PERCENT DIFF.**
alpha-BHC	7.18	7.15-7.21	5897683	Conf.	7.19		Conf.	4.7
beta-BHC	8.15	8.11-8.19	5882188		8.14			6.7
delta-BHC	9.29	9.26-9.32	4714417		9.29			6.9
gamma-BHC	8.37	8.31-8.43	7046900					
Heptachlor	11.31	11.28-11.34	11352000					
Aldrin	12.83	12.79-12.87	8001429					
Heptachlor Epoxide	14.72	14.68-14.76	7974375					
Endosulfan I	16.44	16.40-16.48	7312727					
Dieldrin	17.73	17.69-17.77	6194167					
4,4'-DDE	17.86	17.83-17.89	6244364		17.84			29. +
Endrin	18.78	18.75-18.81	7261136		18.77			2.5
Endosulfan II	19.26	19.23-19.29	5539250					
4,4'-DDD	19.95	19.92-19.98	3885750		19.93			25. +
Endosulfan Sulfate	21.45	21.42-21.48	7215400		21.44			15.
4,4'-DDT	21.82	21.78-21.86	3594600					
Methoxychlor	24.90	24.87-24.93	1101214					
Endrin Ketone	23.71	23.66-23.76	7189886		23.69			26. +
Tech. Chlordane								
alpha-Chlordane*								
gamma-Chlordane*								
Toxaphene								
Aroclor - 1016	10.72	10.69-10.75	6483373					
Aroclor - 1221								
Aroclor - 1232								
Aroclor - 1242	13.19	13.17-13.21	5826473					
Aroclor - 1248								
Aroclor - 1254								
Aroclor - 1260	22.89	22.86-22.92	10768573					

7/85

* SEE EXHIBIT E, PART 7

** CONF. = CONFIRMATION (<20% DIFFERENCE)
QUANT. = QUANTITATION (<15% DIFFERENCE)

+ Not used for quantitation

FORM IX

T.O. 10-1-86

302

025-04

22

0535

Pesticide CB Identification

Client: Envirosphere

Laboratory: Clayton

Contract No. N/A

SAMPLE ID	PRIMARY COLUMN	PESTICIDE/ PCB	RT OF TENTATIVE ID	RT WINDOW OF APPROPRIATE STANDARD	CONFIRMATION COLUMN	RT ON CONFIRMATORY COLUMN	RT WINDOW OF APPROPRIATE STANDARD	GC/MS CONFIRMED (Y or N)
7334	Packed	Aroclor 1242	3.97	3.85-4.05	Capillary	12.24	12.24-12.28	N
"	"	Aroclor 1260	15.82	15.64-15.88	"	22.88	22.86-22.92	N
7334-oil	Packed	Aroclor 1242	3.93	3.85-4.05	"	12.24	12.24-12.28	N
"	"	Aroclor 1260	15.70	15.64-15.88	"	22.87	22.86-22.92	N
7334-Dup-oil	Packed	Aroclor 1242	3.93	3.85-4.05	"	12.24	12.24-12.28	N
"	"	Aroclor 1260	15.66	15.64-15.88	"	22.87	22.86-22.92	N
7334 MS-oil	Packed	Aroclor 1242	3.93	3.85-4.08	*			
	"	Aroclor 1260	15.68	15.64-15.88	*			

* The MS was not run for confirmation due to the fact that these compounds were confirmed [illegible]

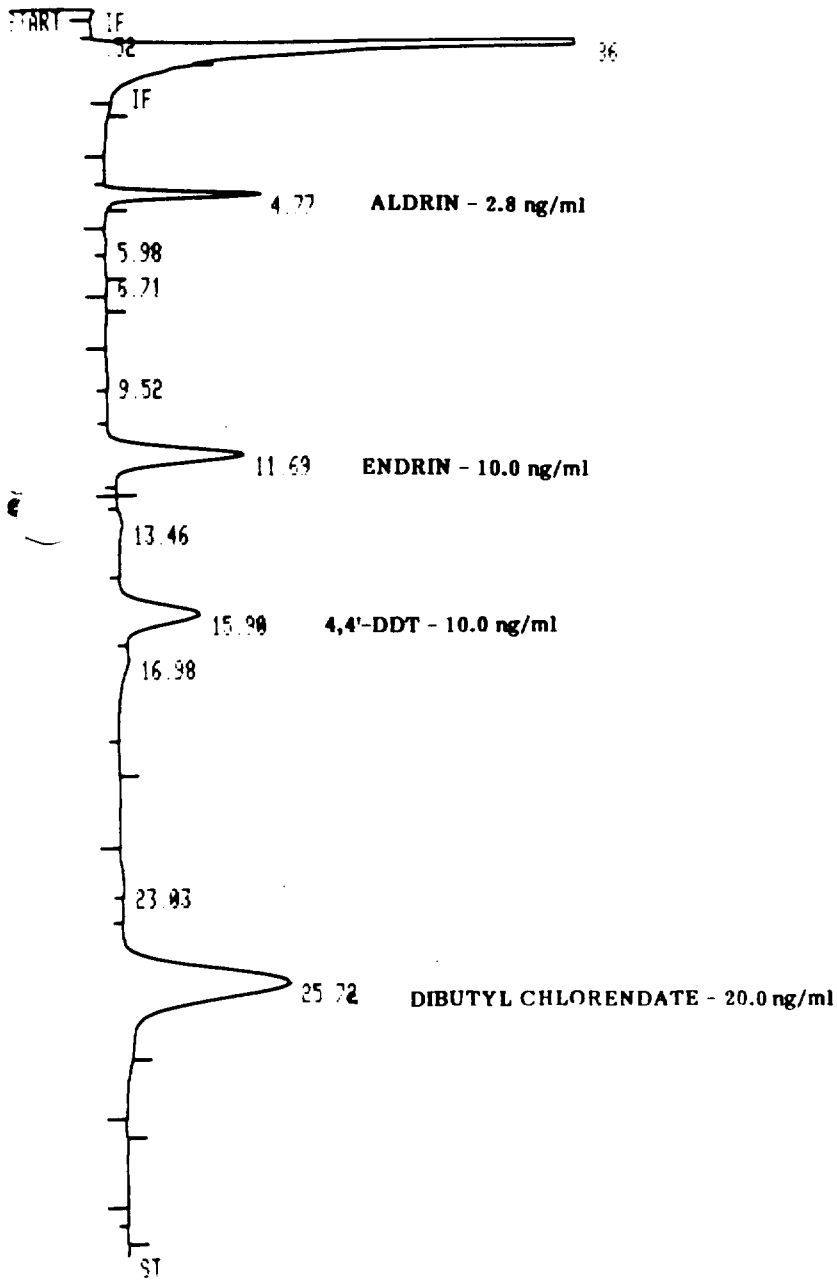
4/84

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN & PACKING: 1.8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Lab No:

EVALUATION STANDARD MIX A



RUN # 123 SEP/23/86 10:57:20
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 1

AREA%

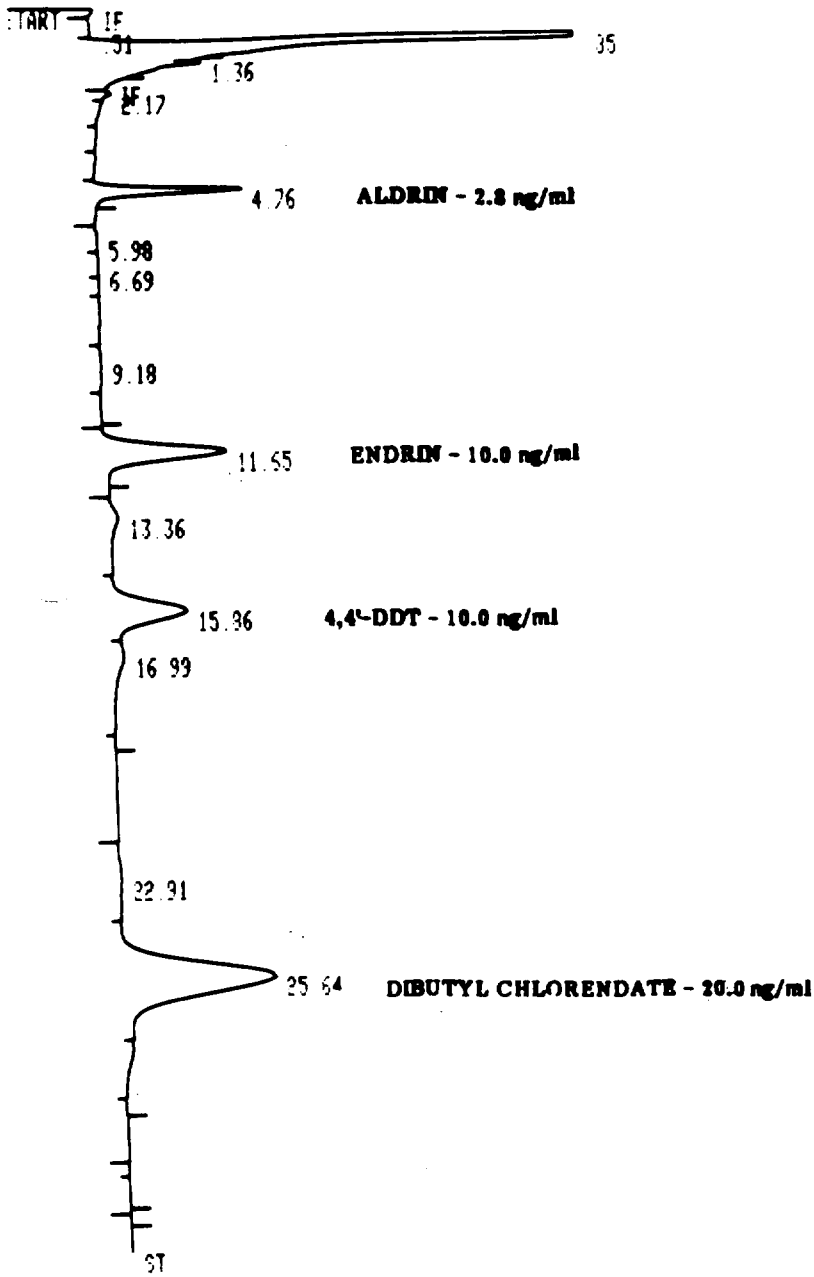
RT	AREA	TYPE	AR/H	AREA%
0.52	6915	BB	0.33[illegible]	0.095
0.86	3023800	BB	0.15[illegible]	41.690
4.77	444200	PB	0.19[illegible]	6.124
5.98	5311	BB	0.261	0.073
6.71	1918	BB	0.25[illegible]	0.026
9.52	10742	BB	0.69[illegible]	0.148
11.69	826330	PB	0.43[illegible]	11.393
13.46	42095	VB	0.662	0.580
15.90	620520	BB	0.57[illegible]	8.555
23.03	18665	PB	0.661	0.257
25.72	2252600	PB	0.96[illegible]	31.057

TOTAL AREA= 7253000
MUL FACTOR= 1.0000E+00

PACKED COLUMN-QUANTITATION

STRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN & PACKING: .8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Lab No:



EVALUATION STANDARD MIX A

RUN # 247 SEP/29/86 09:43:21
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 1

AREA%

RT	AREA	TYPE	AR/H	AREA%
0.51	7422	PB	0.31[illegible]	0.111
0.85	2768700	BB	0.14[illegible]	41.455
1.36	1073	D BB	0.00[illegible]	0.016
2.17	9603	D BB	0.10[illegible]	0.144
4.76	428280	PB	0.201	6.413
5.98	4928	PB	0.268	0.074
6.69	1881	BB	0.23[illegible]	0.028
9.18	13806	PB	0.609	0.207
11.65	776840	PB	0.44[illegible]	11.621
13.36	74585	BB	0.675	1.117
15.86	566030	BB	0.56[illegible]	8.475
16.99	12924	BB	0.196	0.194
22.91	32131	BB	0.85[illegible]	0.481
25.64	1980600	BB	0.922	29.655

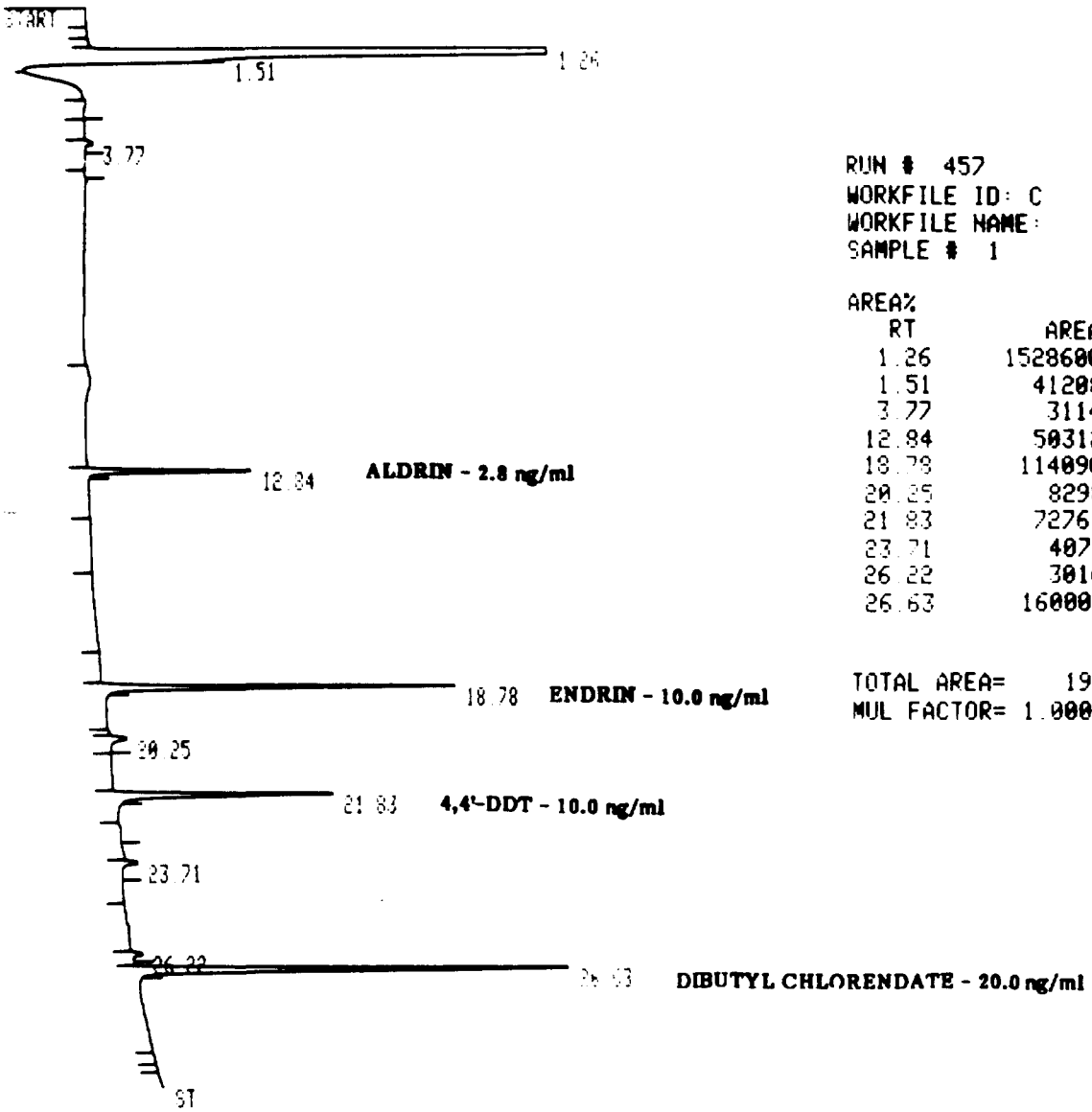
TOTAL AREA= 6678800
MUL FACTOR= 1.0000E+00

CAPILLARY COLUMN-CONFIRMATION

INSTRUMENT: H-P 5890A GC; H-P 7673A Autosampler; H-P 3392A Integrator. **COLUMN:** 30 m long x .25 mm ID fused silica capillary DB-5, 0.25 micrometer film thickness (J&W Scientific) ; helium carrier gas at 1.1 mL/min at 270C and 25 psi; splitless mode; septum purge at 5.5 mL/min; total flow at 27 mL/min; 5% methane/ 95% argon as make-up gas. **CONDITIONS:** Injector at 180C; column temperature programmed with an initial 2 min. hold at 160C and ramped at 3.5C/min to 270C, held for a final 6.5 minutes; detector at 300C. **VOLUME INJECTED:** 2.0 microliters.

Lab No:

EVALUATION STANDARD MIX A



RUN # 457 SEP/30/86 12:36:34
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 1

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.26	1528600	BV	0.155	76.989
1.51	41208	D VB	0.060	2.075
3.77	3114	PB	0.095	0.157
12.84	50312	PB	0.083	2.534
18.78	114090	PB	0.087	5.746
20.25	8298	BB	0.126	0.418
21.83	72761	PB	0.090	3.665
23.71	4072	BB	0.079	0.205
26.22	3016	PB	0.077	0.152
26.63	160000	PB	0.086	8.059

TOTAL AREA= 1985500
MUL FACTOR= 1.0000E+00

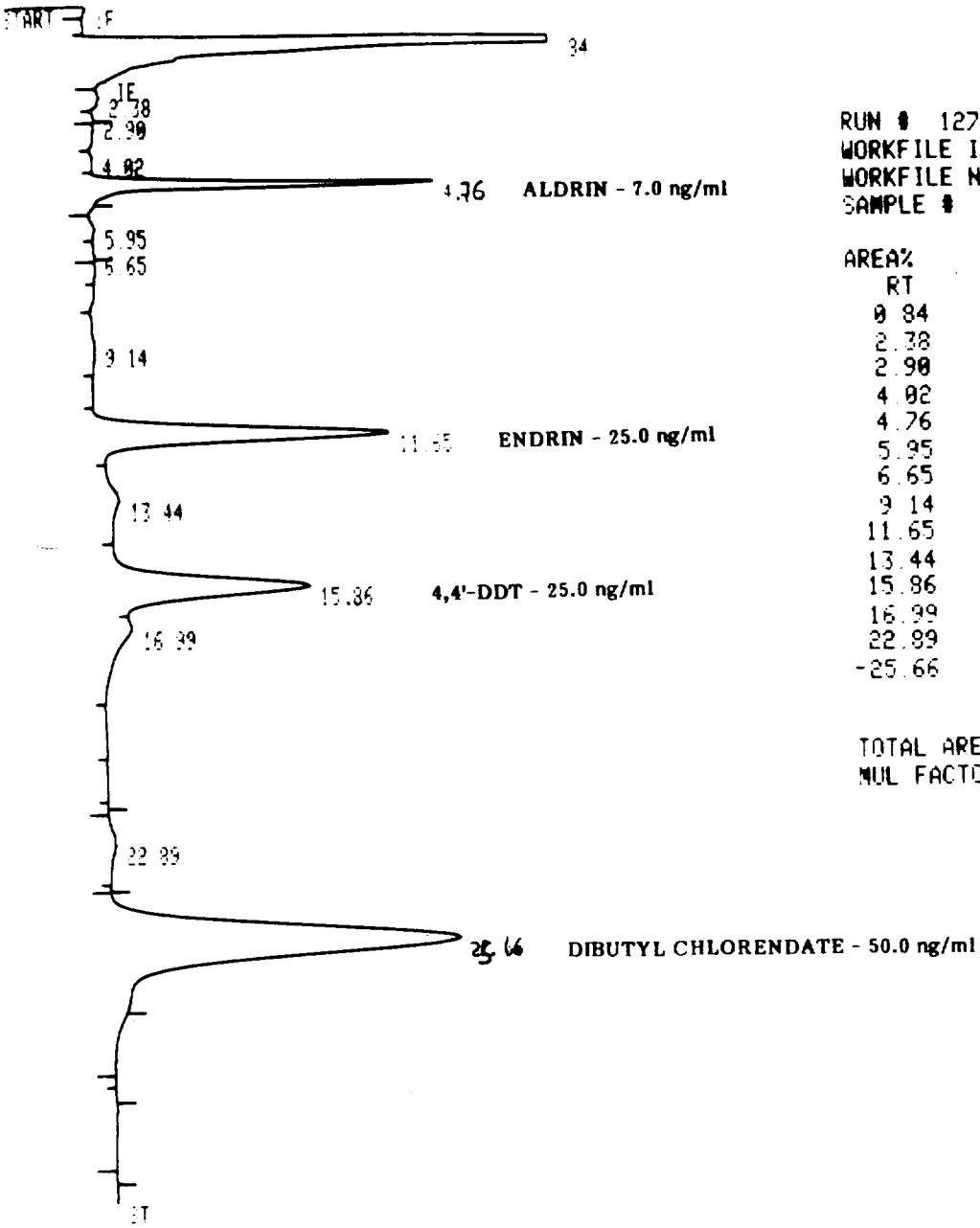
2 2 0540
630-04

PACKED COLUMN-QUANTITATION

STRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN & PACKING: 3 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Lab No:

EVALUATION STANDARD MIX B



RUN # 127 SEP/23/86 13:14:23
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 3

AREA%

RT	AREA	TYPE	AR/H	AREA%
0.84	9810700	ISPB	0.14[illegible]	49.868
2.38	32672	PB	0.439	0.166
2.90	3866	BB	0.16[illegible]	0.020
4.02	9774	PB	0.251	0.050
4.76	1054400	BB	0.20[illegible]	5.360
5.95	19420	PB	0.326	0.099
6.65	1080	BB	0.18[illegible]	0.006
9.14	49162	PB	0.920	0.250
11.65	1913700	PB	0.44[illegible]	9.729
13.44	110790	BB	0.745	0.563
15.86	1602400	BB	0.57[illegible]	8.145
16.99	7111	BB	0.06[illegible]	0.036
22.89	73836	BB	0.82[illegible]	0.375
-25.66	-4984300	PB	0.965	25.335

TOTAL AREA= 1.9673E+07
MUL FACTOR= 1.0000E+00

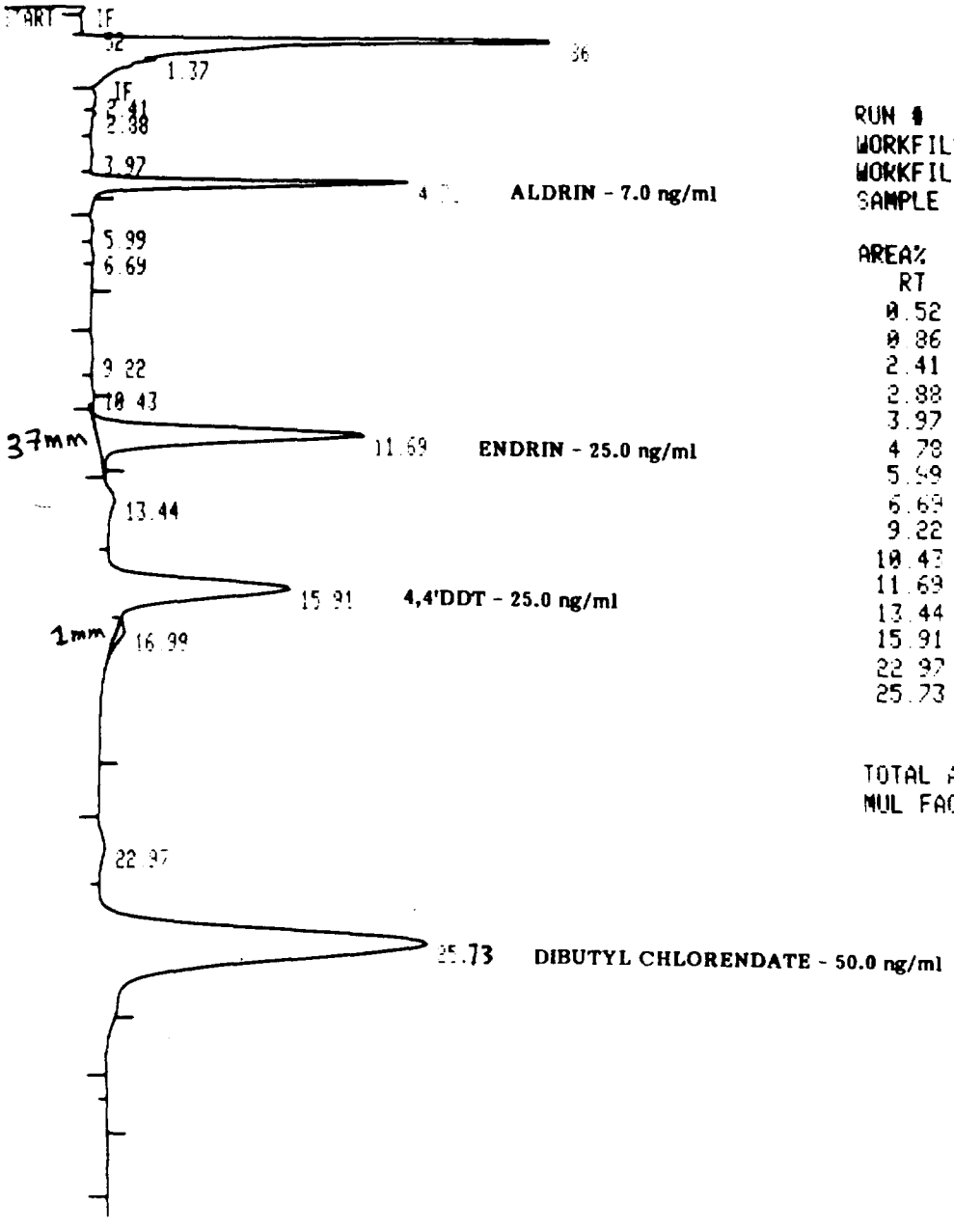
630-05

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN & PACKING: [illegible] m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Lab No:

EVALUATION STANDARD MIX B



RUN # 144 SEP/24/86 [illegible]
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 27

AREA%

RT	AREA	TYPE	AR/H	AREA%
0.52	7739	PB	0.34[illegible]	0.073
0.86	1682400	BB	0.17[illegible]	15.806
2.41	12303	BB	0.29[illegible]	0.116
2.88	6680	BB	0.15[illegible]	0.063
3.97	9356	BB	0.34[illegible]	0.088
4.78	933760	BB	0.19[illegible]	8.773
5.99	10036	PB	0.28[illegible]	0.094
6.69	4219	BB	0.25[illegible]	0.040
9.22	21140	PB	0.68[illegible]	0.199
10.43	1376	BB	0.15[illegible]	0.013
11.69	1758300	PB	0.44[illegible]	16.520
13.44	86837	PB	0.68[illegible]	0.816
15.91	1462100	BB	0.56[illegible]	13.732
22.97	64428	PB	0.76[illegible]	0.605
25.73	4583000	BB	0.95[illegible]	43.059

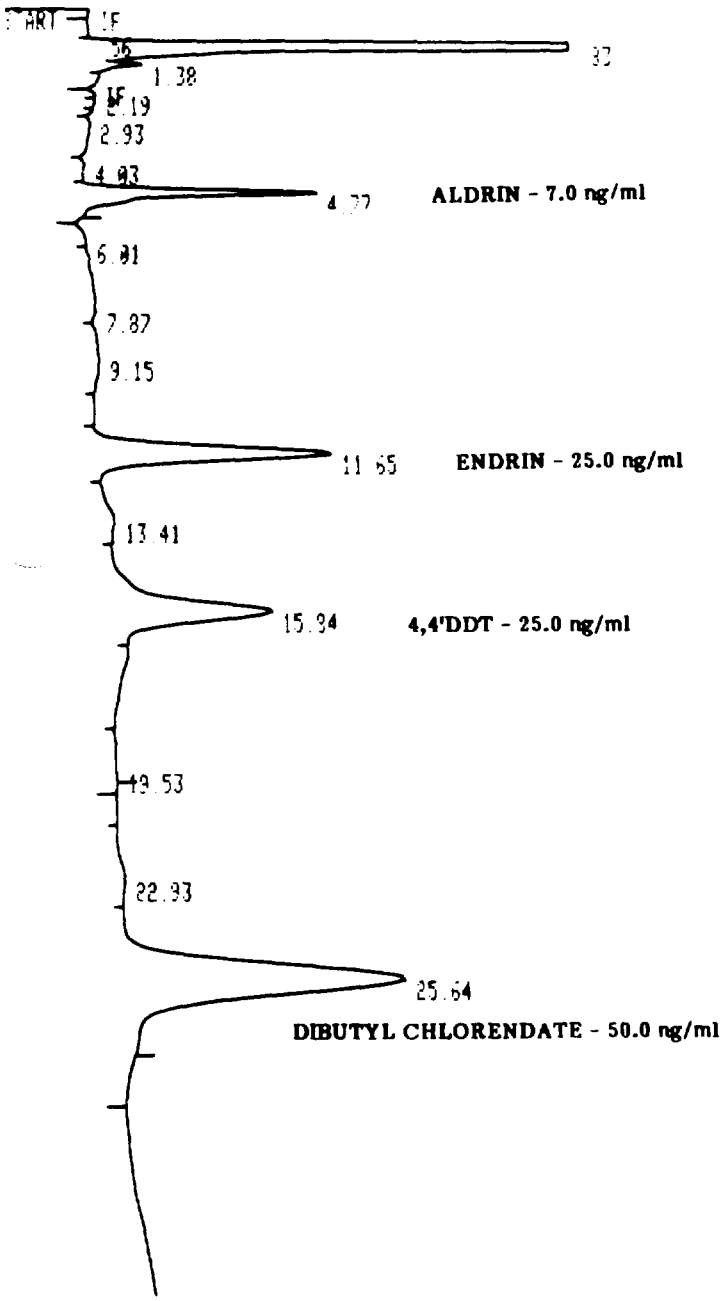
TOTAL AREA= 1.0644E+07
MUL FACTOR= 1.0000E+00

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator **COLUMN & PACKING:** .8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; **CONDITIONS:** Injector at 200C; column at 220C (isothermal); detector at 300C; **VOLUME INJECTED:** 1.0 microliter

Lab No:

EVALUATION STANDARD MIX B



RUN # 158 SEP/24/86 18:04:42
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 21

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.56	4405	PB	0.356	0.025
0.83	7217500	SPB	0.124	41.571
1.38	46386	D BB	0.106	0.267
2.19	7629	PB	0.136	0.044
2.93	64578	PB	1.01[illegible]	0.372
4.03	13282	BB	0.290	0.077
4.77	803970	BB	0.23[illegible]	4.631
6.01	15606	PB	0.454	0.090
7.87	99639	BB	1.43[illegible]	0.574
9.15	94343	BB	1.109	0.543
11.65	1467900	PB	0.436	8.455
13.41	58890	BB	0.637	0.339
15.84	1316900	BB	0.61[illegible]	7.585
19.53	9931	PB	0.736	0.057
22.93	25126	PB	0.484	0.145
25.64	3820400	BB	0.96[illegible]	22.005
37.93	2052600	PB	7.70[illegible]	11.822
48.76	215170	BB	6.779	1.239
59.19	27459	PB	7.62[illegible]	0.158

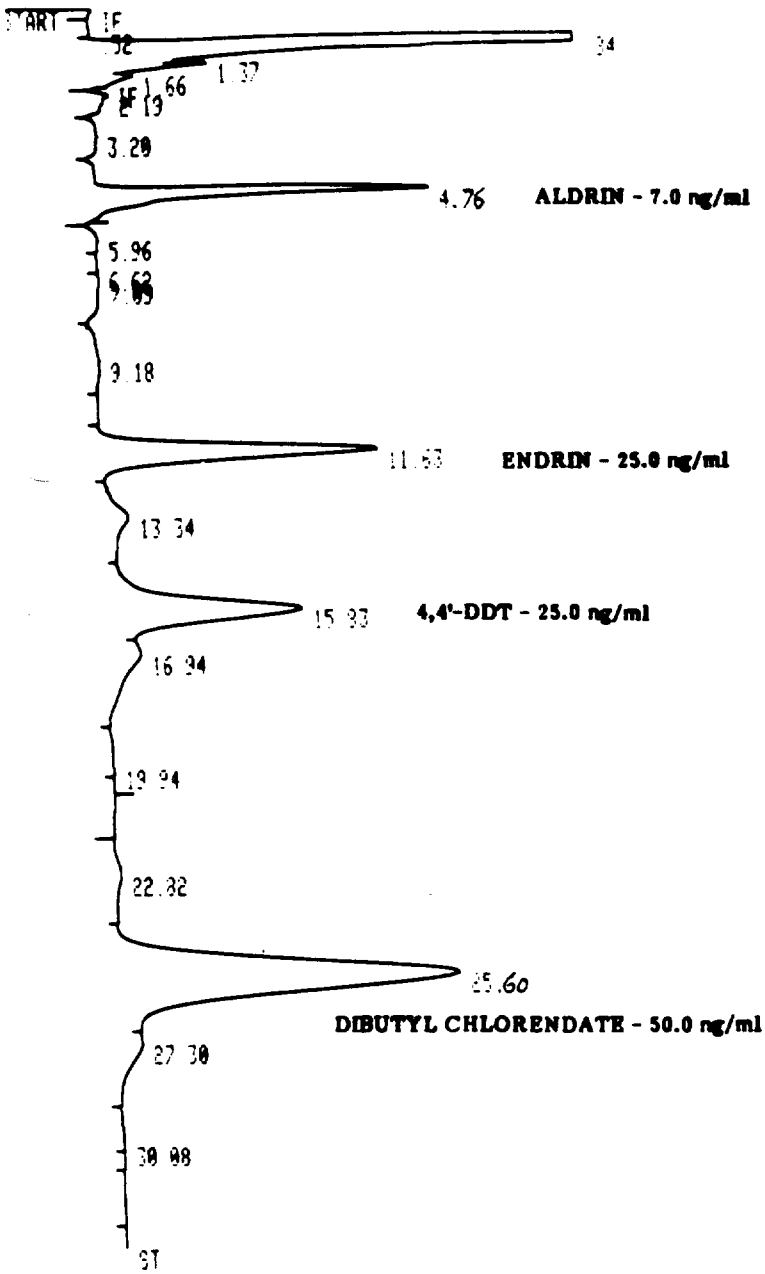
TOTAL AREA= 1.7362E+07
MUL FACTOR= 1.0000E+00

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator **COLUMN & PACKING:** 1.8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; **CONDITIONS:** Injector at 200C; column at 220C (isothermal); detector at 300C; **VOLUME INJECTED:** 1.0 microliter

Lab No:

EVALUATION STANDARD MIX B



RUN # 248 SEP/29/[illegible] 10:17:54
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 3

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.52	7296	BB	0.297	0.038
0.84	9096500	SPB	0.135	47.479
1.37	92257	D BB	0.13	0.482
1.66	55542	I BB	0.264	0.290
2.19	131710	PB	0.448	0.688
3.20	139860	BB	0.848	0.730
4.76	1314700	BB	0.265	6.862
5.96	41157	PB	0.427	0.215
6.62	2458	BB	0.285	0.013
7.09	84781	BB	1.429	0.443
9.18	108310	BB	1.137	0.565
11.63	1763200	PB	0.444	9.203
13.34	196730	BB	0.746	1.027
15.83	1509500	BB	0.598	7.879
16.94	81898	BB	0.585	0.428
19.94	14278	BB	1.337	0.075
22.82	73090	PB	0.836	0.382
25.60	4412500	BB	0.926	23.031
27.30	27694	BB	0.396	0.145
30.08	5319	BB	0.869	0.028

TOTAL AREA= 1.9159E+07
MUL FACTOR= 1.0000E+00

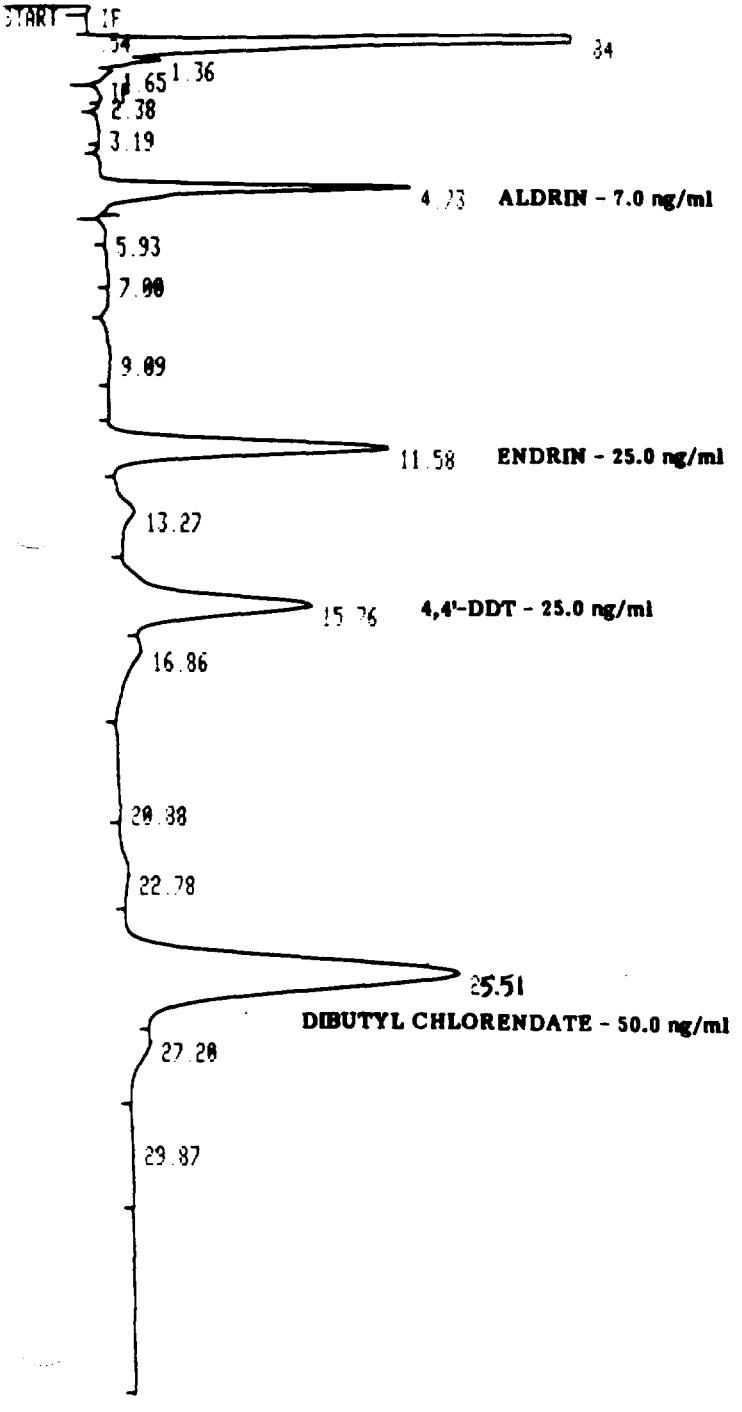
2 2 0544-
030-08

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN & PACKING: .8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Lab No:

EVALUATION STANDARD MIX B



RUN # 267 SEP/30/8_ 01 35:11
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 27

AREA%

RT	AREA	TYPE	AR/H.	AREA%
0.54	5718	PB	0.30	0.033
0.84	8235700	SPB	0.131	47.053
1.36	43300	O BB	0.11	0.247
1.65	21520	I BB	0.310	0.123
2.38	25882	BB	0.36	0.148
3.19	30256	PB	0.591	0.173
4.23	1154300	PB	0.25	6.595
5.93	22822	PB	0.37	0.130
7.00	14041	BB	0.67	0.080
9.09	74905	PB	1.016	0.428
11.58	1738000	PB	0.43	9.930
13.27	162860	BB	0.696	0.931
15.76	1563600	BB	0.61	8.934
16.86	47222	BB	0.447	0.270
20.88	31552	BB	2.64	0.180
22.78	57134	BB	0.739	0.326
-25.51	-4179200	BB	0.91	23.877
27.20	23244	BB	0.37	0.133
29.87	22854	BB	1.31	0.131
48.42	48820	BB	10.995	0.279

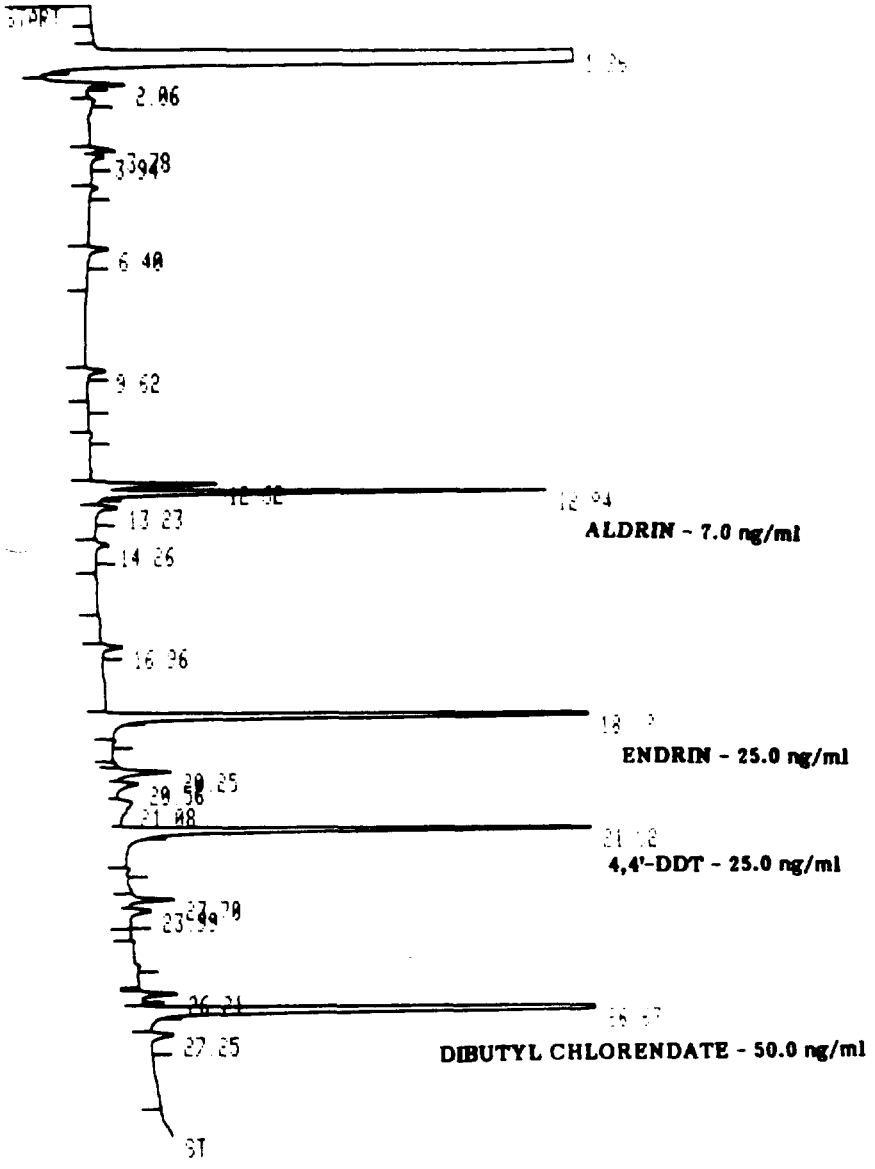
TOTAL AREA= 1.7503E+07
MUL FACTOR= 1.0000E+00

CAPILLARY COLUMN-CONFIRMATION

INSTRUMENT: H-P 5890A GC; H-P 7673A Autosampler; H-P 3392A Integrator. **COLUMN:** 30 m long x .25 mm ID fused silica capillary DB-5, 0.25 micrometer film thickness (J&W Scientific) ; helium carrier gas at 1.1 mL/min at 270C and 25 psi; splitless mode; septum purge at 5.5 mL/min; total flow at 27 mL/min; 5% methane/ 95% argon as make-up gas. **CONDITIONS:** Injector at 180C; column temperature programmed with an initial 2 min. hold at 160C and ramped at 3.5C/min to 270C, held for a final 6.5 minutes; detector at 300C. **VOLUME INJECTED:** 2.0 microliters.

Lab No:

EVALUATION STANDARD MIX B



RUN # 458 SEP/30/86 13 12 31
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 2

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.26	4276300	BB	0.164	73.314
2.06	17744	PB	0.091	0.304
3.78	7614	BV	0.086	0.131
3.94	6663	VB	0.131	0.114
6.40	9349	BB	0.124	0.160
9.62	7552	PB	0.107	0.130
12.62	47441	PV	0.107	0.813
12.84	137500	VB	0.085	2.357
13.23	7967	BB	0.112	0.137
14.26	7038	BB	0.135	0.121
16.36	9148	BB	0.117	0.157
18.78	350750	PB	0.085	6.013
20.25	25451	BV	0.128	0.436
20.56	11442	VP	0.144	0.196
21.08	16133	PP	0.305	0.277
21.82	238570	PB	0.088	4.090
23.70	15839	BP	0.100	0.272
23.99	10855	PB	0.135	0.186
26.21	9881	PB	0.079	0.169
26.63	608980	PB	0.086	10.440
27.25	10634	BB	0.129	0.182

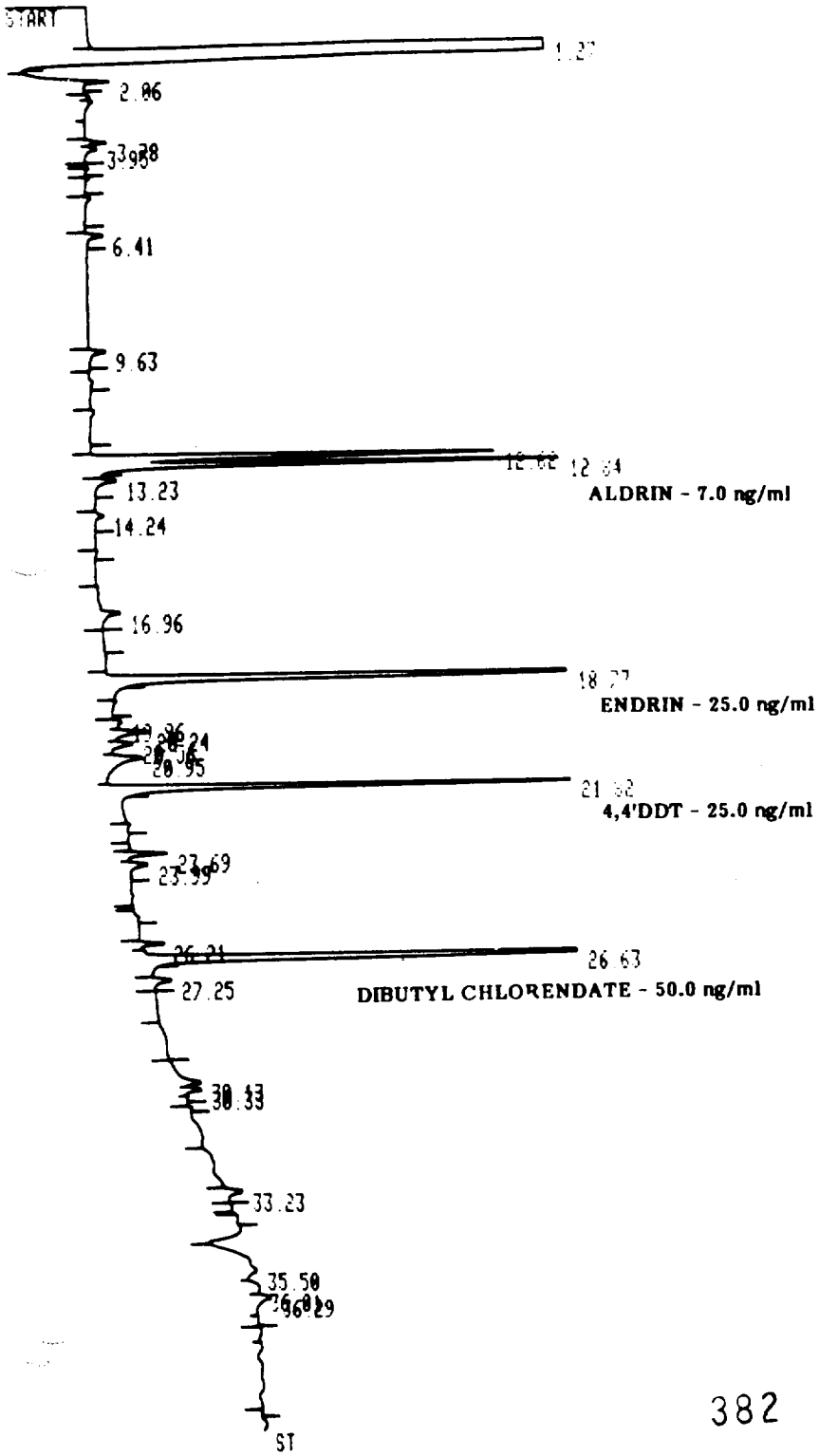
TOTAL AREA= 5832900
NUL FACTOR= 1.0000E+00

CAPILLARY COLUMN-CONFIRMATION

INSTRUMENT: H-P 5890A GC; H-P 7673A Autosampler; H-P 3392A Integrator. COLUMN: 30 m long x .25 mm ID fused silica capillary DB-5, 0.25 micrometer film thickness (J&W Scientific) ; helium carrier gas at 1.1 mL/min at 270C and 25 psi; splitless mode; septum purge at 5.5 mL/min; total flow at 27 mL/min; 5% methane/ 95% argon as make-up gas. CONDITIONS: Injector at 180C; column temperature programmed with an initial 2 min. hold at 160C and ramped at 3.5C/min to 270C, held for a final 6.5 minutes; detector at 300C. VOLUME INJECTED: 2.0 microliters.

Lab No:

EVALUATION STANDARD MIX B



RUN # 470 SEP/30/86 21:46:57
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 14

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.27	3962800	BB	0.154	69.310
2.06	30620	PB	0.143	0.536
3.78	6669	BV	0.081	0.117
3.95	6438	VB	0.135	0.113
6.41	8205	PB	0.119	0.144
9.63	8309	BB	0.124	0.145
12.62	174630	PV	0.115	3.054
12.84	162560	VB	0.091	2.843
13.23	6313	BB	0.095	0.110
14.24	4969	PB	0.132	0.087
16.96	11905	PB	0.152	0.208
18.77	349410	PB	0.089	6.111
19.96	6553	BV	0.170	0.115
20.24	21500	VV	0.152	0.376
20.56	13780	VV	0.153	0.241
20.95	30352	VP	0.236	0.531
21.82	195800	PB	0.093	3.425
23.69	12397	BP	0.087	0.217
23.99	10711	PB	0.143	0.187
26.21	7694	PP	0.083	0.135
26.63	486520	PB	0.090	8.509
27.25	9233	BB	0.128	0.162
30.13	15814	BV	0.187	0.277
30.33	10001	VV	0.134	0.175
33.23	8748	BB	0.136	0.153
35.50	87909	PV	0.734	1.538
36.01	32188	VV	0.361	0.563
36.29	35486	VV	0.316	0.621

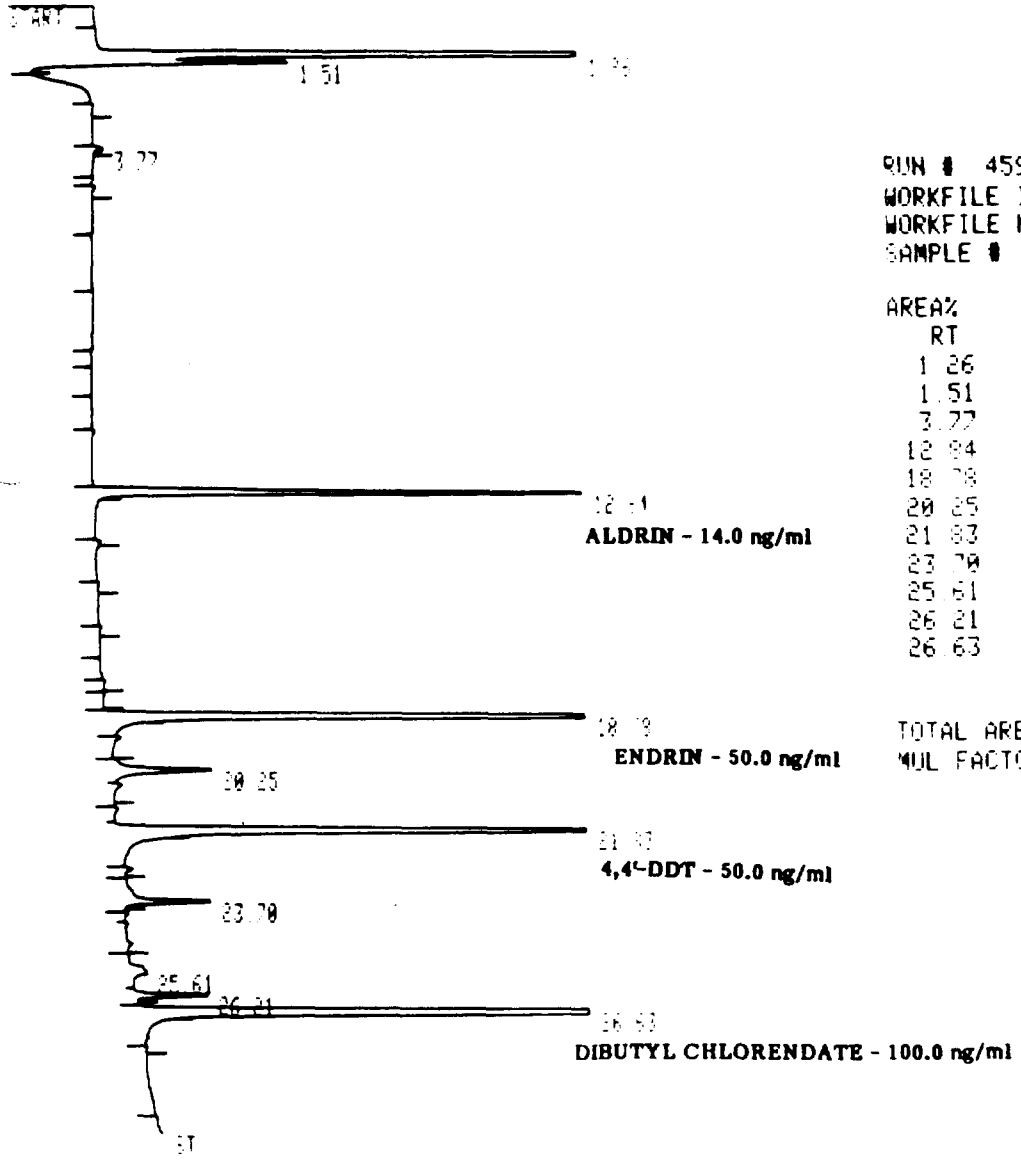
TOTAL AREA= 5717500
MUL FACTOR= 1.0000E+00

CAPILLARY COLUMN-CONFIRMATION

INSTRUMENT: H-P 5890A GC; H-P 7673A Autosampler; H-P 3392A Integrator. **COLUMN:** 30 m long x .25 mm ID fused silica capillary DB-5, 0.25 micrometer film thickness (J&W Scientific) ; helium carrier gas at 1.1 mL/min at 270C and 25 psi; splitless mode; septum purge at 5.5 mL/min; total flow at 27 mL/min; 5% methane/ 95% argon as make-up gas. **CONDITIONS:** Injector at 180C; column temperature programmed with an initial 2 min. hold at 160C and ramped at 3.5C/min to 270C, held for a final 6.5 minutes; detector at 300C. **VOLUME INJECTED:** 2.0 microliters.

Lab No:

EVALUATION STANDARD MIX C



RUN # 459 SEP/30/86 13 48 09
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 3

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.26	717430	BV	0.155	17.125
1.51	106550	VB	0.121	2.544
3.77	3767	PB	0.090	0.090
12.84	277910	PB	0.082	6.634
18.78	852450	PB	0.082	20.348
20.25	54526	BV	0.154	1.302
21.83	547580	PB	0.083	13.071
23.70	37942	BB	0.123	0.906
25.61	13944	PP	0.249	0.333
26.21	20640	PB	0.081	0.493
26.63	1556500	PB	0.087	37.155

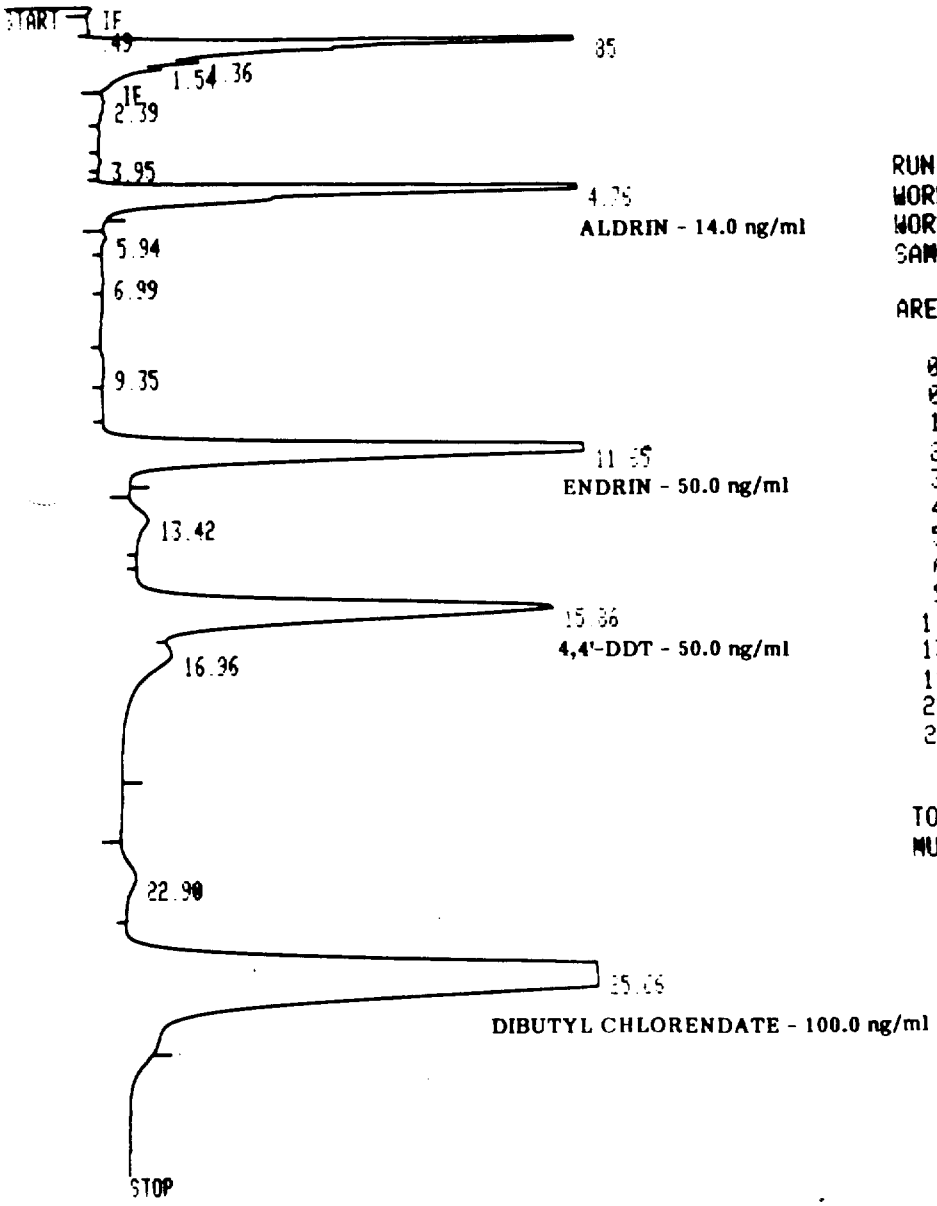
TOTAL AREA= 4189200
MUL FACTOR= 1.0000E+00

PACKED COLUMN-QUANTITATION

'STRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN & PACKING: .8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Lab No:

EVALUATION STANDARD MIX C



RUN # 128 SEP/23/86 13:48:56
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 5

AREA%

RT	AREA	TYPE	AR/H	AREA%
0.49	6604	BB	0.316	0.031
0.85	1934400	BB	0.171	9.135
1.36	21563	D BB	0.076	0.102
2.39	20687	BB	0.461	0.098
3.95	7160	VB	0.236	0.034
4.76	2482900	PB	0.250	11.724
5.94	11088	BB	0.216	0.052
6.99	10529	BB	0.559	0.050
9.35	23076	PB	0.628	0.109
11.65	3688400	PB	0.440	17.417
13.42	141760	PB	0.625	0.669
15.86	3232000	PB	0.568	15.262
22.90	151770	PB	0.836	0.717
25.66	9445200	BB	0.968	44.601

TOTAL AREA= 2.1177E+07
MUL FACTOR= 1.0000E+00

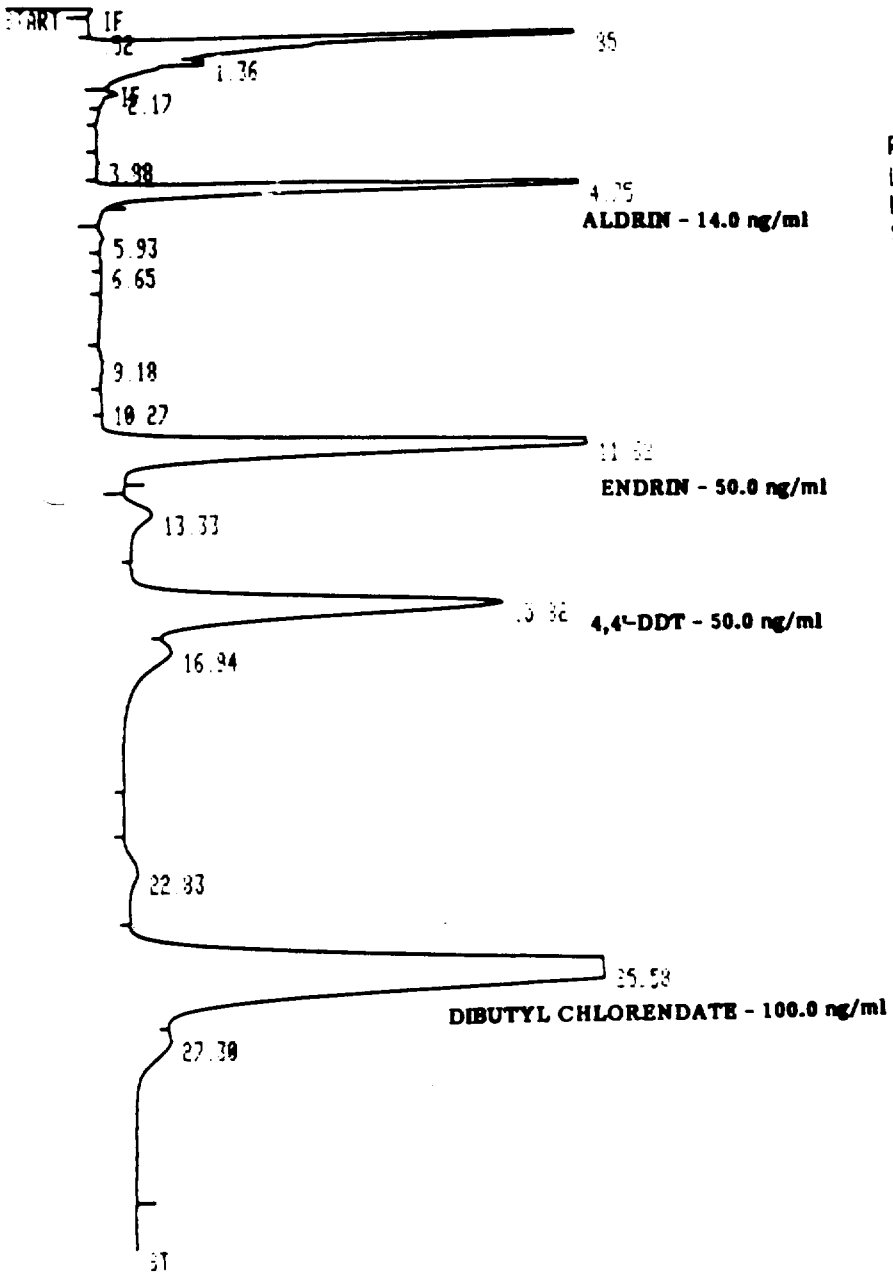
2 2 0549
030-13

PACKED COLUMN-QUANTITATION

TRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN & PACKING: 6 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Lab No:

EVALUATION STANDARD MIX C



RUN # 249 SEP/29/[illegible] 10:52:33
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 5

AREA%

RT	AREA	TYPE	AR/H	AREA%
0.52	7693	BB	0.33[illegible]	0.041
0.85	1897900	BB	0.16[illegible]	10.1[illegible]
2.17	24976	PB	0.13[illegible]	0.134
3.88	8262	PB	0.31[illegible]	0.044
4.75	1829600	BB	0.193	9.811
5.93	15983	PB	0.258	0.086
6.65	1424	BB	0.242	0.008
9.18	27735	PB	0.582	0.149
10.27	2529	BB	0.32[illegible]	0.014
11.62	3282900	BB	0.435	17.605
13.33	238960	PB	0.63[illegible]	1.282
15.82	2814400	BB	0.556	15.093
22.83	143230	PB	0.84[illegible]	0.768
25.58	8352200	BB	0.92[illegible]	44.789

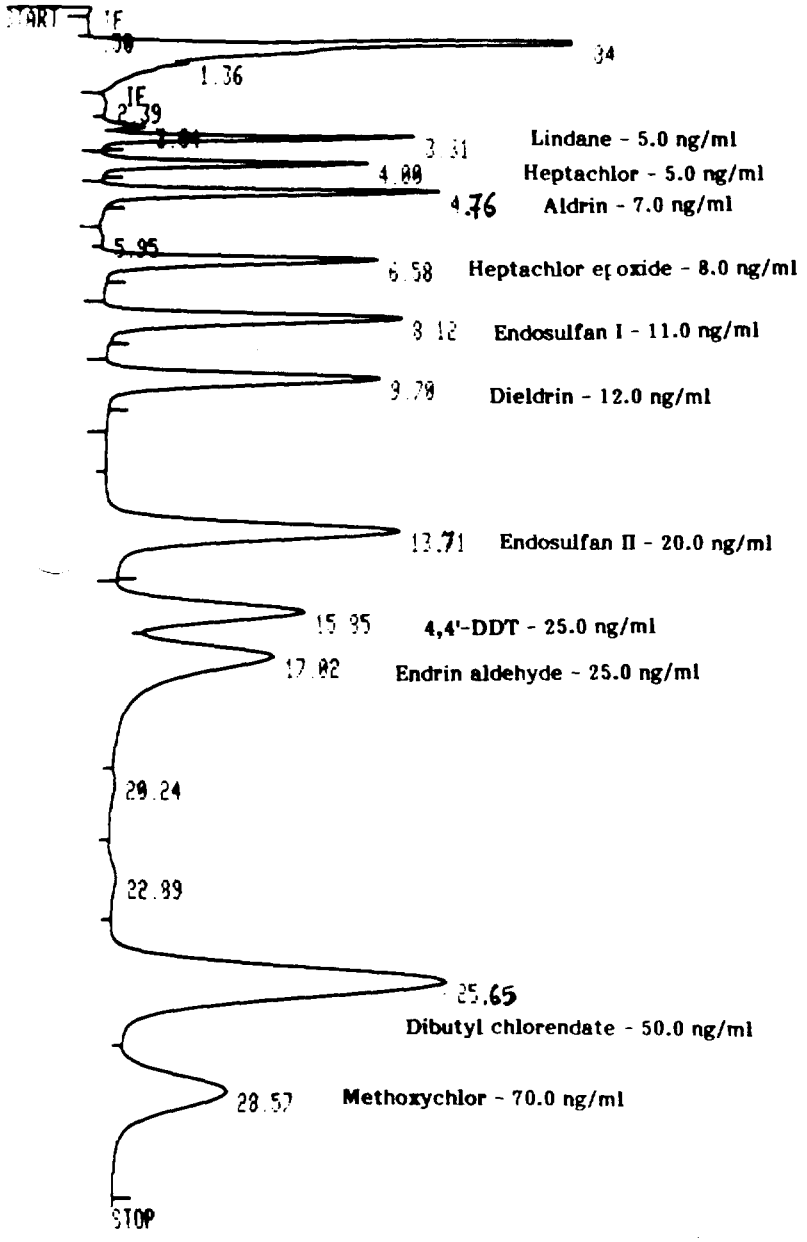
TOTAL AREA= 1.8648E+07
MUL FACTOR= 1.0000E+00

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN & PACKING: [illegible] m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Lab No:

INDIVIDUAL STANDARD MIX A



RUN # 129 SEP/23/86 14:25:13
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 7

AREA%

RT	AREA	TYPE	AR/H.	AREA%
0.50	6670	BB	0.31[illegible]	0.034
0.84	2218300	BB	0.16[illegible]	11.202
2.39	19488	PB	0.36[illegible]	0.098
3.04	57138	BB	0.11[illegible]	0.289
3.31	635950	BB	0.14[illegible]	3.211
4.00	663710	BB	0.17[illegible]	3.352
4.76	957960	PB	0.19[illegible]	4.837
5.95	8474	BB	0.24[illegible]	0.043
6.58	1042300	BB	0.26[illegible]	5.263
8.12	1367100	PB	0.320	6.903
9.70	1467100	BB	0.37[illegible]	7.408
13.71	2306000	PB	0.55[illegible]	11.644
15.85	1312000	PB	0.53[illegible]	6.625
17.02	1513600	BB	0.775	7.643
20.24	25752	BB	0.61[illegible]	0.130
22.89	74085	BB	0.82[illegible]	0.374
- 25.65	- 4491400	BB	0.94[illegible]	22.680
28.57	1636700	BB	1.057	8.265

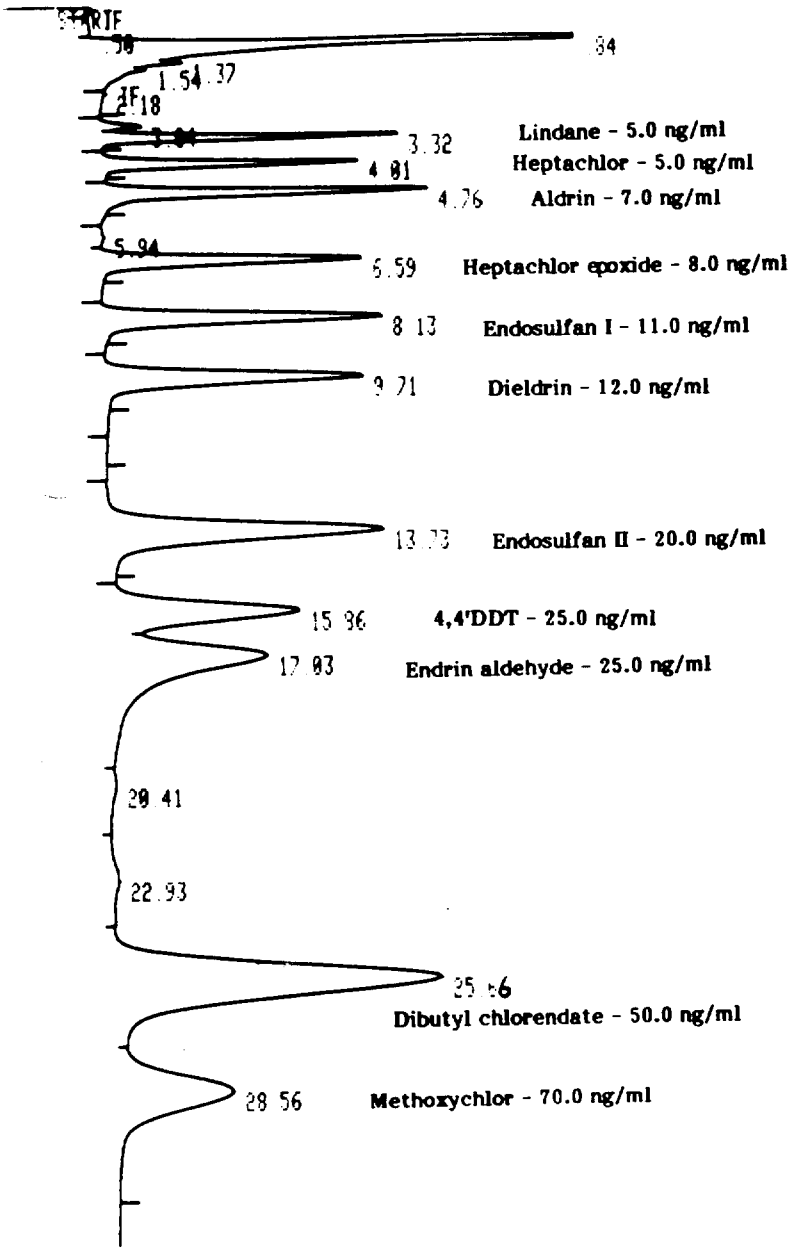
TOTAL AREA= 1.9804E+07
MUL FACTOR= 1.0000E+00

PACKED COLUMN-QUANTITATION

TRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN & PACKING: m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Lab No:

INDIVIDUAL STANDARD MIX A



RUN # 150 SEP/24/86 12:09:03
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 11

AREA%

RT	AREA	TYPE	AR/H	AREA%
0.50	8838	BB	0.32[illegible]	0.047
0 84	2109200	BB	0.158	11.097
1.37	22161	D BB	0.07[illegible]	0.117
2 10	1367	D BB	0.044	0.007
3.04	57669	PB	0.12[illegible]	0.303
3.32	607680	BB	0.145	3.197
4.01	635250	PB	0.17[illegible]	3.342
4.76	957110	BB	0.206	5.036
5.94	10885	BB	0.27[illegible]	0.057
6.59	977460	BB	0.261	5.143
8.13	1275400	PB	0.31[illegible]	6.710
9.71	1372400	PB	0.37[illegible]	7.221
13.73	2149500	PB	0.55[illegible]	11.309
15.86	1283900	PB	0.53[illegible]	6.755
17.03	1423700	BB	0.76[illegible]	7.491
20.41	26943	BB	0.55[illegible]	0.142
22.93	81604	BB	0.86[illegible]	0.429
25.66	-4353600	BB	0.94[illegible]	22.905
28.56	1652400	BB	1.04[illegible]	8.624

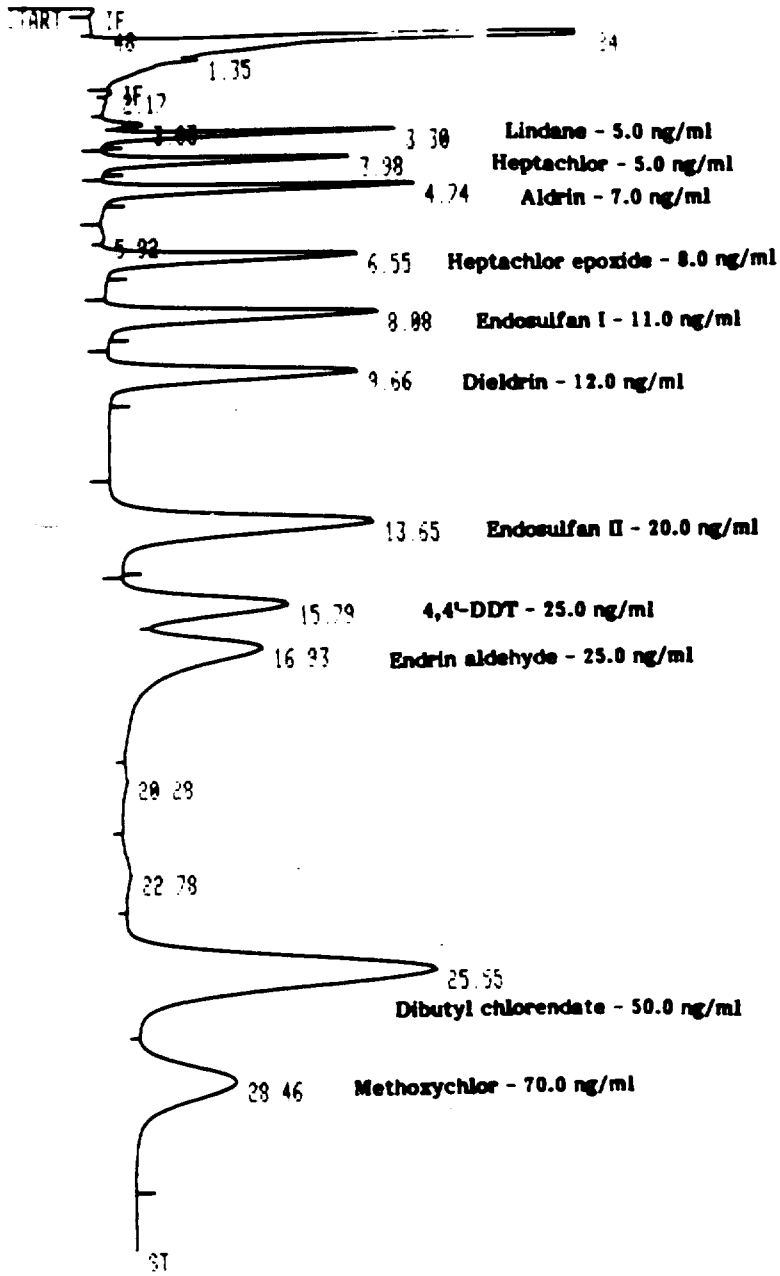
TOTAL AREA= 1.9007E+07
MUL FACTOR= 1.0000E+00

PACKED COLUMN-QUANTITATION

STRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN & PACKING: .8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Lab No:

INDIVIDUAL STANDARD MIX A



RUN # 250 SEP/29/86 11:40:46
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 7

AREA%

RT	AREA	TYPE	AR/H	AREA%
0.48	7887	BB	0.31[illegible]	0.043
0.84	2276900	BB	0.155	12.495
2.17	6698 D	BB	0.09[illegible]	0.037
3.03	52515	PB	0.117	0.288
3.30	594100	BB	0.14[illegible]	3.260
3.98	619540	BB	0.17[illegible]	3.400
4.74	880700	BB	0.19[illegible]	4.833
5.92	9881	BB	0.284	0.054
6.55	952730	BB	0.261	5.228
8.08	1241400	PB	0.318	6.813
9.66	1334000	BB	0.37[illegible]	7.321
13.65	2089900	PB	0.563	11.469
15.79	1139300	PB	0.527	6.252
16.93	1275500	BB	0.75[illegible]	7.000
20.28	20436	BB	0.50[illegible]	0.112
22.78	69939	BB	0.84[illegible]	0.384
25.55	4136900	BB	0.94[illegible]	22.702
28.46	1514200	BB	1.064	8.309

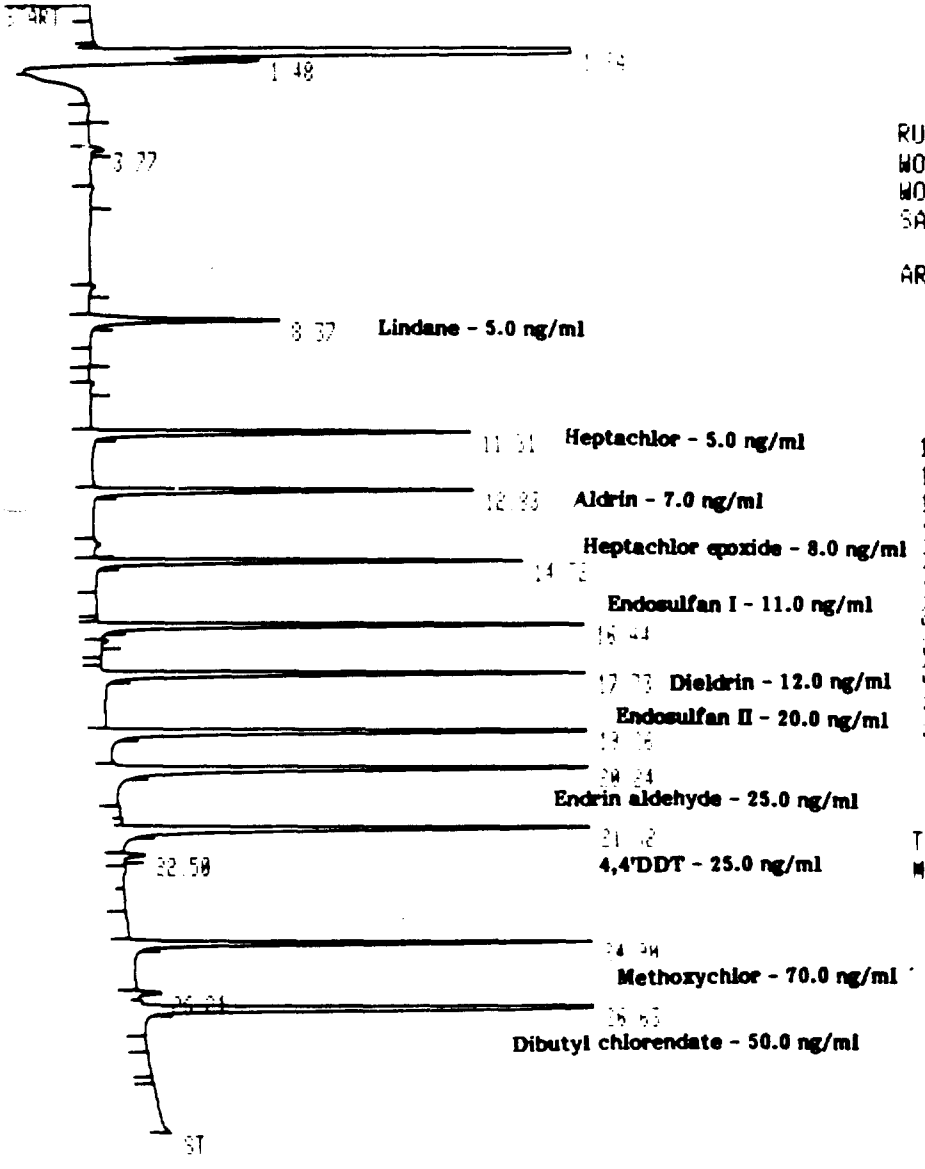
TOTAL AREA= 1.8222E+07
MUL FACTOR= 1.0000E+00

CAPILLARY COLUMN-CONFIRMATION

INSTRUMENT: H-P 5890A GC; H-P 7673A Autosampler; H-P 3392A Integrator. **COLUMN:** 30 m long x .25 mm ID fused silica capillary DB-5, 0.25 micrometer film thickness (J&W Scientific) ; helium carrier gas at 1.1 mL/min at 270C and 25 psi; splitless mode; septum purge at 5.5 mL/min; total flow at 27 mL/min; 5% methane/ 95% argon as make-up gas. **CONDITIONS:** Injector at 180C; column temperature programmed with an initial 2 min. hold at 160C and ramped at 3.5C/min to 270C, held for a final 6.5 minutes; detector at 300C. **VOLUME INJECTED:** 2.0 microliters.

Lab No:

INDIVIDUAL STANDARD MIX A



RUN # 460 SEP/30/86 14:25:33
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 4

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.24	707580	BV	0.144	25.877
1.48	91723	VB	0.122	3.357
3.77	5066	PB	0.100	0.185
8.37	70469	PB	0.103	2.579
11.31	113520	PB	0.083	4.154
12.83	112020	PB	0.082	4.099
14.72	127590	PB	0.083	4.669
16.44	160880	PB	0.084	5.887
17.73	148660	PB	0.085	5.440
19.26	221570	PB	0.087	8.108
20.24	220120	PB	0.096	8.055
21.82	179730	PB	0.091	6.577
22.50	6684	BB	0.083	0.245
24.90	154170	PB	0.088	5.642
26.21	7411	PP	0.083	0.271
26.63	405550	PB	0.086	14.840

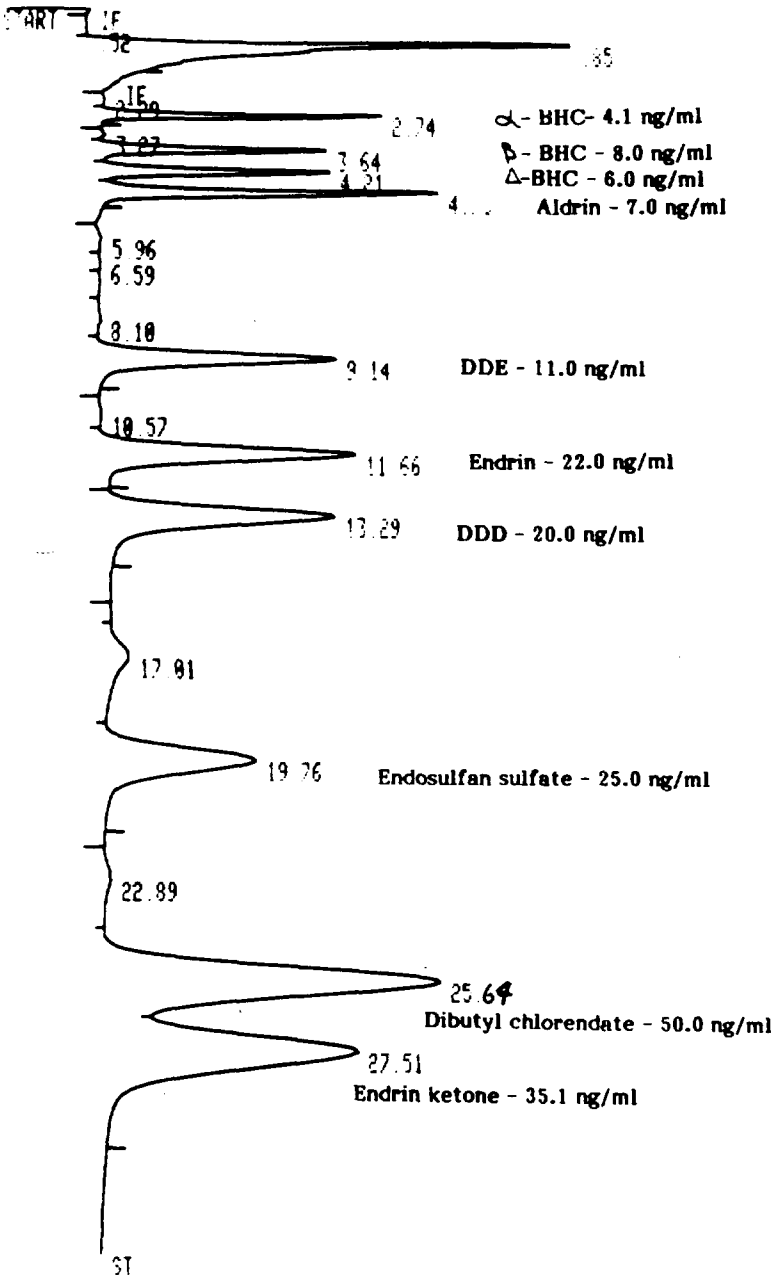
TOTAL AREA= 2732700
MUL FACTOR= 1.0000E+00

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN PACKING: m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Lab No:

INDIVIDUAL STANDARD MIX B



RUN # 130 SEP 23 5:00:39
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 9

AREA%

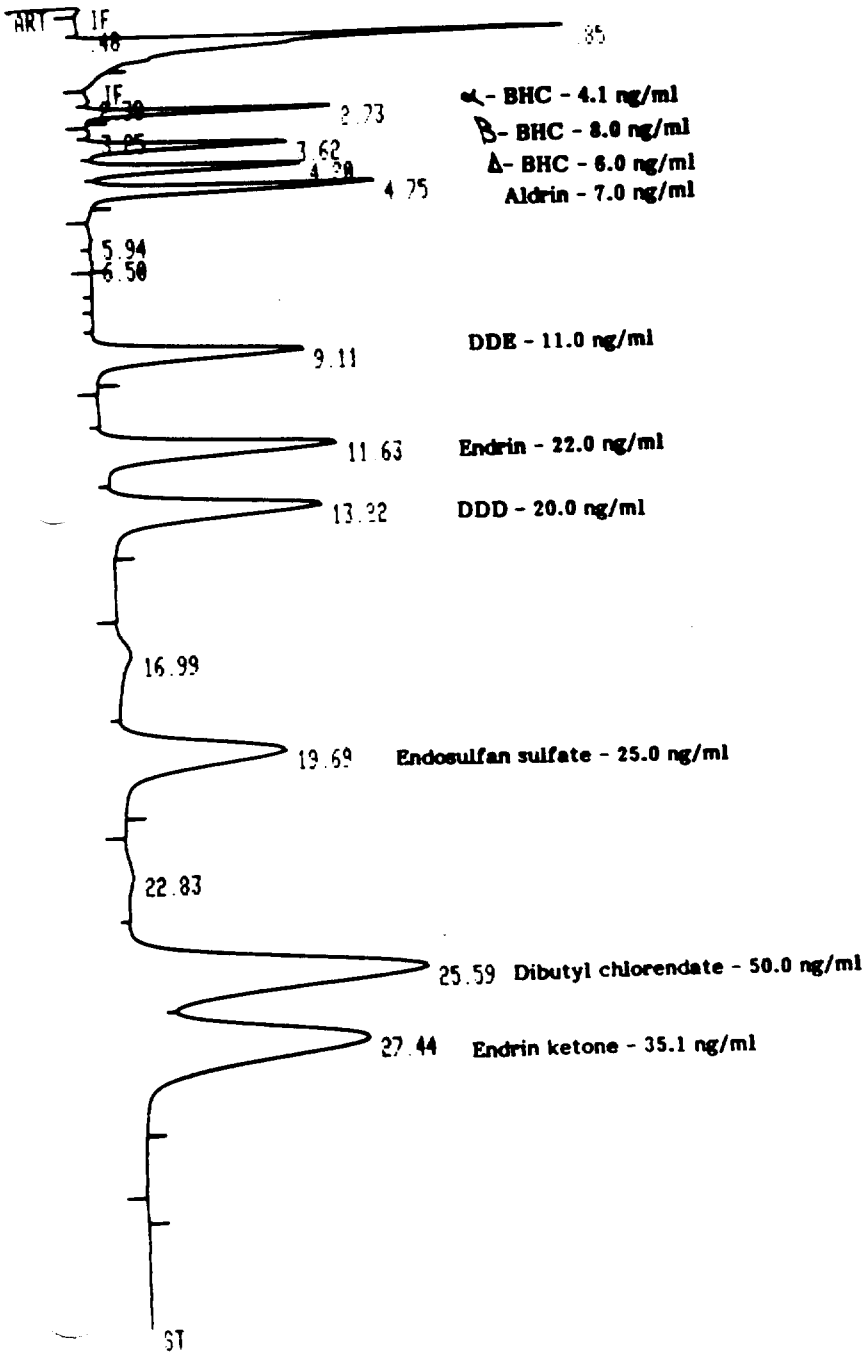
RT	AREA	TYPE	AR/H	AREA%
0.52	5870	PB	0.31	0.033
0.85	1988400	BB	0.22	11.087
2.29	5913	BB	0.24	0.033
2.74	520810	BB	0.12	2.904
3.27	10309	BB	0.15	0.058
3.64	549150	BB	0.16	3.062
4.21	582740	BB	0.18	3.249
4.76	938280	BB	0.19	5.232
5.96	16207	PB	0.33	0.090
6.59	2647	BB	0.22	0.015
8.10	13560	PB	0.38	0.076
9.14	1262500	BB	0.36	7.039
10.57	9012	BB	0.43	0.050
11.66	1607600	BB	0.44	8.963
13.29	1786500	BB	0.55	9.961
17.01	301170	VB	1.01	1.679
19.76	1684400	BB	0.78	9.392
22.89	74876	BB	0.80	0.418
-25.64	-3749300	BB	0.85	20.905
27.51	2826000	BB	0.90	15.757

TOTAL AREA= 1.7935E+07
MUL FACTOR= 1.0000E+00

PACKED COLUMN-QUANTITATION

RUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN & PACKING: 1.8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Lab No: INDIVIDUAL STANDARD MIX B



RUN # 188 SEP/25/86 22:04:04
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 33

AREA%

RT	AREA	TYPE	AR/H	AREA%
0.48	8236	BB	0.31	0.051
0.85	1877600	BB	0.223	11.584
2.38	11034	PB	0.240	0.068
2.73	458520	BB	0.136	2.829
3.25	8194	BB	0.158	0.051
3.62	472970	BB	0.166	2.918
4.20	532390	BB	0.17	3.285
4.75	800610	BB	0.198	4.940
5.94	12408	PB	0.356	0.077
6.50	2849	BB	0.23	0.018
9.11	1075000	PB	0.356	6.632
11.63	1466700	PB	0.436	9.049
13.22	1588400	BB	0.52	9.800
16.99	185429	BB	0.94	1.144
19.69	1788600	BB	0.76	11.035
22.83	68931	BB	0.821	0.425
25.59	3251800	BB	0.843	20.063
27.44	2598500	BB	0.906	16.032

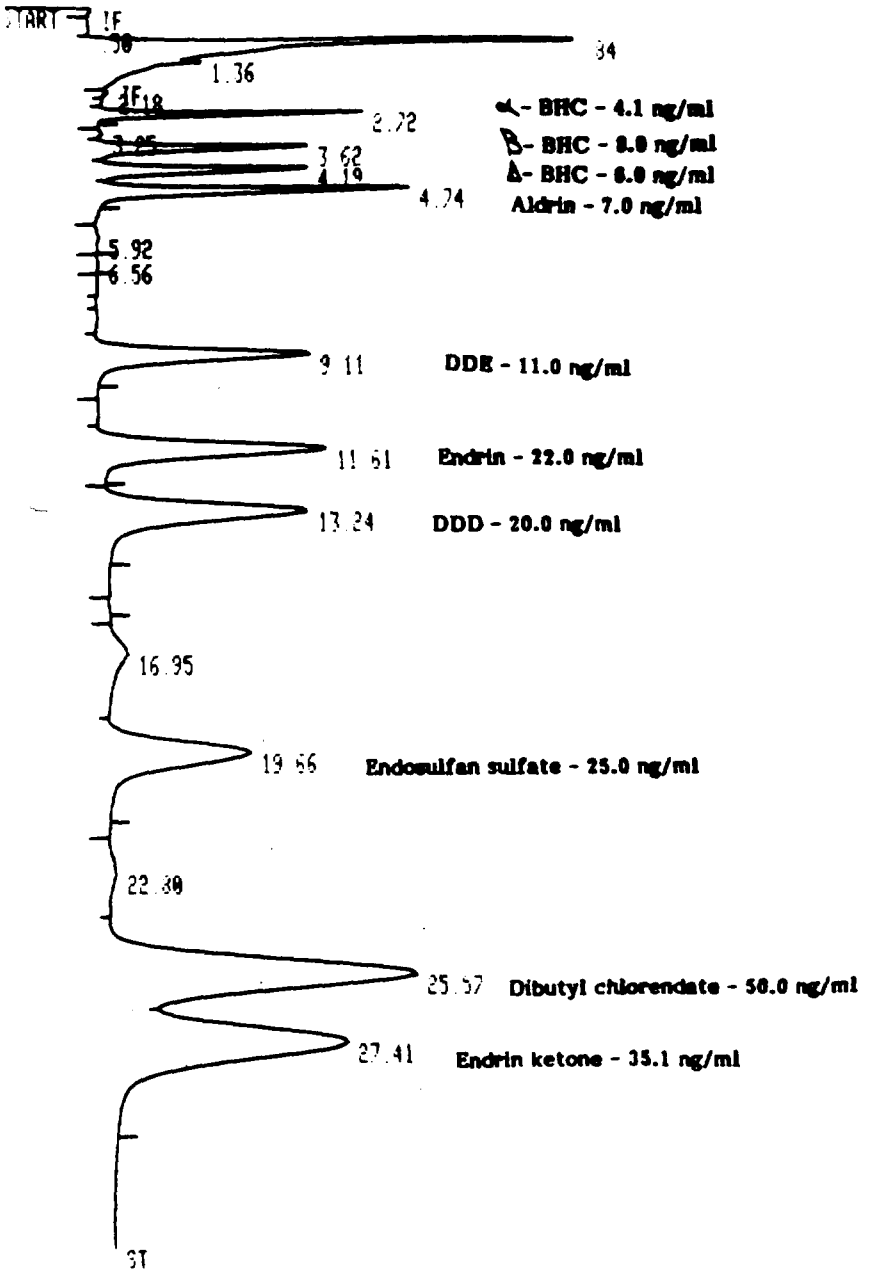
TOTAL AREA= 1.6208E+07
MUL FACTOR= 1.0000E+00

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator **COLUMN & PACKING:** 1.8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; **CONDITIONS:** Injector at 200C; column at 220C (isothermal); detector at 300C; **VOLUME INJECTED:** 1.0 microliter

Lab No:

INDIVIDUAL STANDARD MIX B



RUN # 251 SEP/29/86 12:15:24
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 9

AREA%

RT	AREA	TYPE	AR/H.	AREA%
0.50	7514	PB	0.33[illegible]	0.04[illegible]
0.84	1569200	BB	0.16[illegible]	9.760
2.18	6649 D	BB	0.09[illegible]	0.041
2.72	490510	PB	0.12[illegible]	3.051
3.25	8893	BB	0.15[illegible]	0.055
3.62	511920	BB	0.17[illegible]	3.184
4.19	532440	BB	0.18[illegible]	3.312
4.74	863710	BB	0.19[illegible]	5.372
5.92	12633	PB	0.31[illegible]	0.079
6.56	3019	BB	0.22[illegible]	0.019
9.11	1140700	PB	0.37[illegible]	7.095
11.61	1429700	PB	0.44[illegible]	8.892
13.24	1604100	PB	0.55[illegible]	9.977
16.95	236310	BB	0.93[illegible]	1.470
19.66	1599700	BB	0.77[illegible]	9.949
22.80	73428	BB	0.82[illegible]	0.457
25.57	3367000	BB	0.84[illegible]	20.941
27.41	2620600	BB	0.90[illegible]	16.299

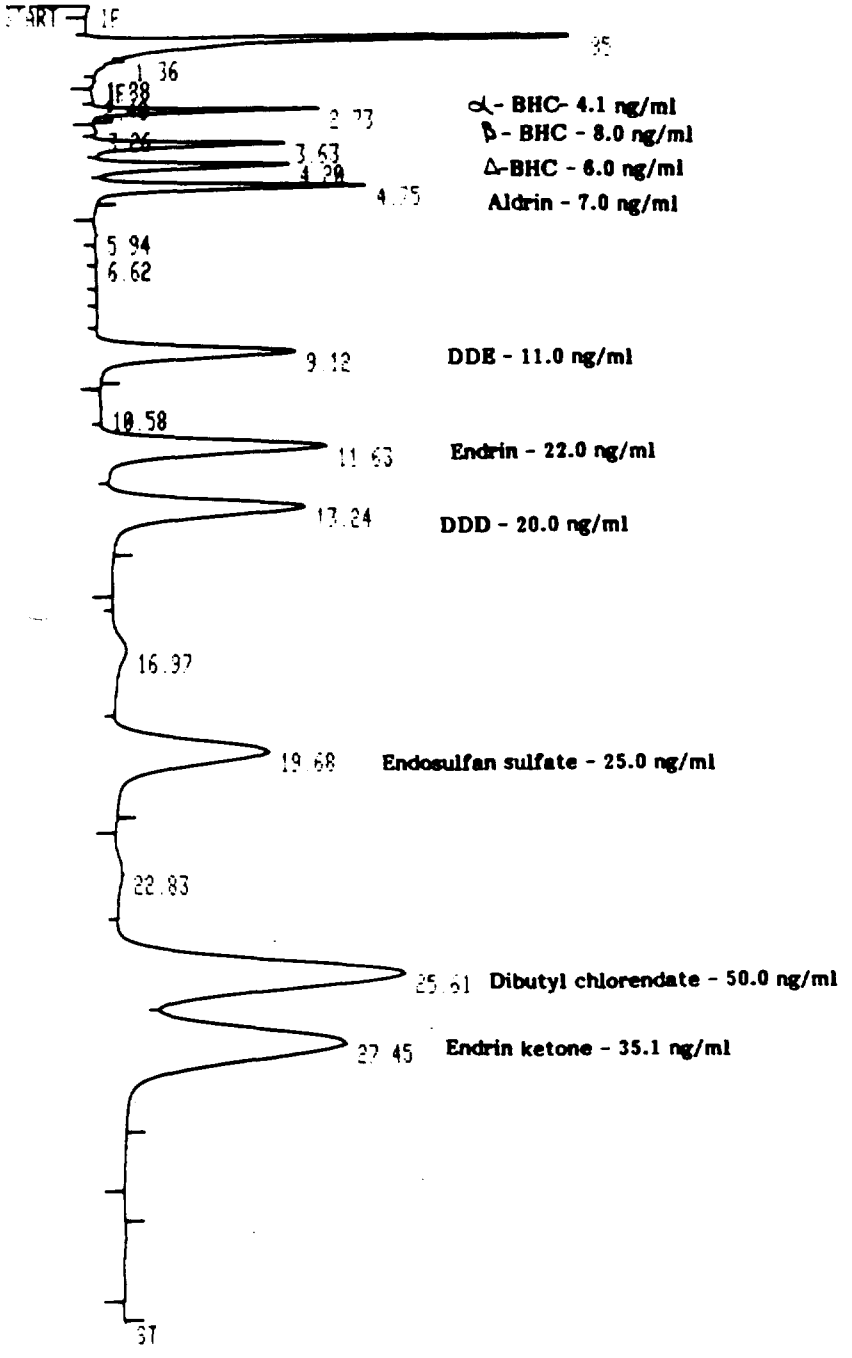
TOTAL AREA= 1.6078E+07
MUL FACTOR= 1.0000E+00

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN & PACKING: 8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Lab No:

INDIVIDUAL STANDARD MIX B



RUN # 279 SEP/30/[illegible] 11:36:[illegible]
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 1

AREA%

RT	AREA	TYPE	AR/H	AREA%
0.85	1462800	PB	0.15[illegible]	3.638
1.38	2102	I BB	0.08[illegible]	0.014
2.40	4576	PB	0.22[illegible]	0.030
2.73	420000	BB	0.12[illegible]	2.767
3.26	7818	PB	0.16[illegible]	0.052
3.63	456930	BB	0.16[illegible]	3.011
4.20	488990	BB	0.17[illegible]	3.222
4.75	753870	BB	0.19[illegible]	4.967
5.94	8864	BB	0.30[illegible]	0.058
6.62	2180	BB	0.300	0.014
9.12	1019700	PB	0.35[illegible]	6.718
10.58	6232	BB	0.393	0.041
11.63	1406400	BB	0.43[illegible]	9.26[illegible]
13.24	1489800	BB	0.52[illegible]	9.816
16.97	190050	VB	0.98[illegible]	1.252
19.68	1709900	BB	0.76[illegible]	11.266
22.83	69440	PB	0.82[illegible]	0.458
25.61	3135100	BB	0.83[illegible]	20.656
27.45	2542700	BB	0.89[illegible]	16.75[illegible]

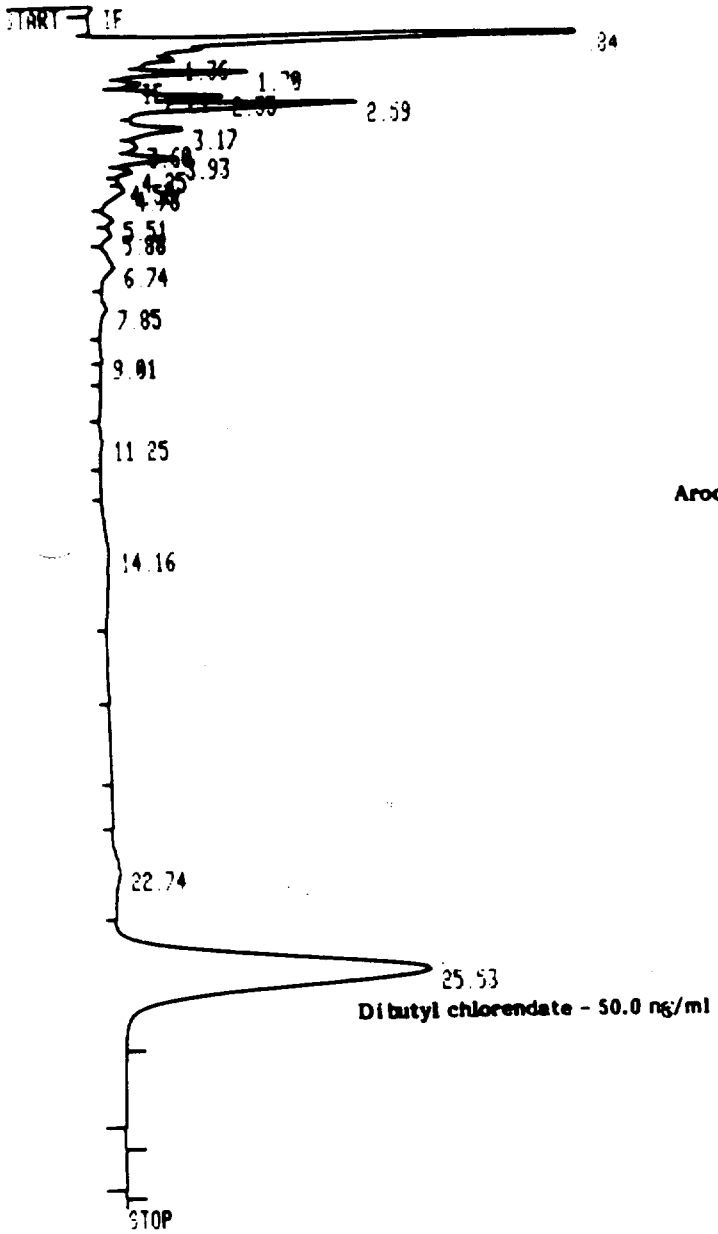
TOTAL AREA= 1.5177E+07
MUL FACTOR= 1.0000E+00

PACKED COLUMN-QUANTITATION

STRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator **COLUMN & PACKING:** .8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; **CONDITIONS:** Injector at 200C; column at 220C (isothermal); detector at 300C; **VOLUME INJECTED:** 1.0 microliter

Lab No:

AROCLOR-1221 - 200 ng/ml



RUN # 255 SEP/29/86 15:00:22
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 17

AREA%

RT	AREA	TYPE	AR/H	AREA%
0.84	2008000	PB	0.11[illegible]	25.849
1.36	27085	D PB	0.09[illegible]	0.349
1.70	172740	D BB	0.10[illegible]	2.224
2.21	11261	PB	0.088	0.145
2.35	80436	BB	0.09[illegible]	1.036
2.59	413760	BB	0.14[illegible]	5.326
3.17	133190	BB	0.17[illegible]	1.715
3.60	20404	BB	0.186	0.263
3.93	115880	BB	0.158	1.492
4.25	28132	BB	0.143	0.362
4.53	1855	BB	0.09[illegible]	0.024
4.73	30047	BB	0.233	0.387
5.51	22327	BB	0.190	0.287
5.88	21251	BB	0.223	0.274
6.74	90405	BB	0.53[illegible]	1.164
7.85	35489	BB	0.40[illegible]	0.457
9.01	3355	BB	0.24[illegible]	0.043
11.25	15691	PB	0.491	0.202
14.16	152740	VB	1.76[illegible]	1.96[illegible]
22.74	71500	PB	0.822	0.920
25.53	4312500	BB	0.95[illegible]	55.516

TOTAL AREA= 7768100
MUL FACTOR= 1.0

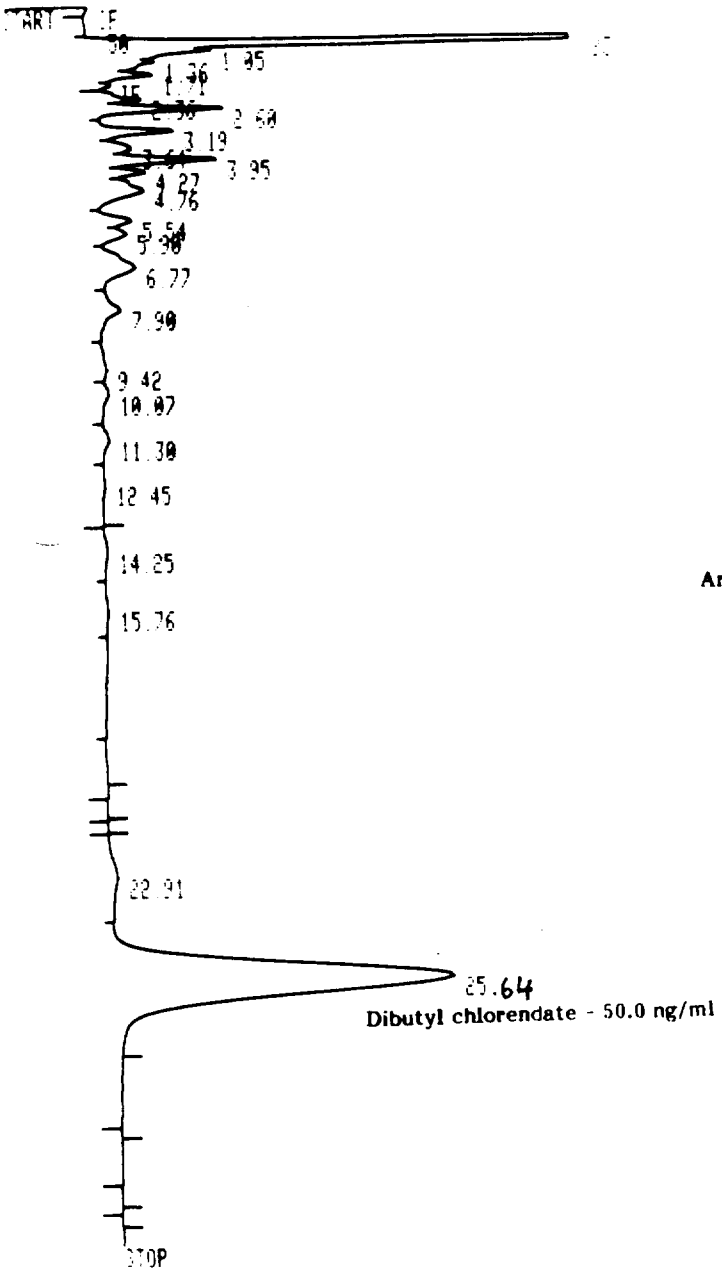
Aroclor-1221

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN & PACKING: 3 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Lab No:

AROCLOR-1232 - 100 ng/ml



Dibutyl chlorendate - 50.0 ng/ml

RUN # 135 SEP/23/86 13:48:27
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 9

AREA%

RT	AREA	TYPE	AR/H	AREA%
0.50	6734	BB	0.32[illegible]	0.079
0.83	2231200	BB	0.111	26.099
1.05	5780 D	BB	0.02[illegible]	0.068
1.36	11832 D	BB	0.101	0.138
1.71	40619 D	BB	0.09[illegible]	0.475
2.36	51315	PB	0.124	0.600
2.60	230660	BB	0.14[illegible]	2.698
3.19	154100	BB	0.155	1.803
3.64	39057	BB	0.19[illegible]	0.457
3.95	219150	BB	0.159	2.563
4.27	54343	BB	0.14[illegible]	0.636
4.76	164220	BB	0.347	1.921
5.54	61793	BB	0.19[illegible]	0.723
5.90	48412	BB	0.222	0.566
6.77	238330	BB	0.51[illegible]	2.789
7.90	107280	BB	0.41[illegible]	1.255
9.42	26808	BB	0.53[illegible]	0.314
10.07	26779	BB	0.35[illegible]	0.313
11.30	38793	BB	0.43[illegible]	0.453
12.45	11359	BB	0.435	0.133
14.25	29053	BB	0.60[illegible]	0.340
15.76	23435	BB	0.68[illegible]	0.274
22.91	77825	BB	0.85[illegible]	0.910
25.64	4650600	BB	0.96[illegible]	54.397

Aroclor-1232

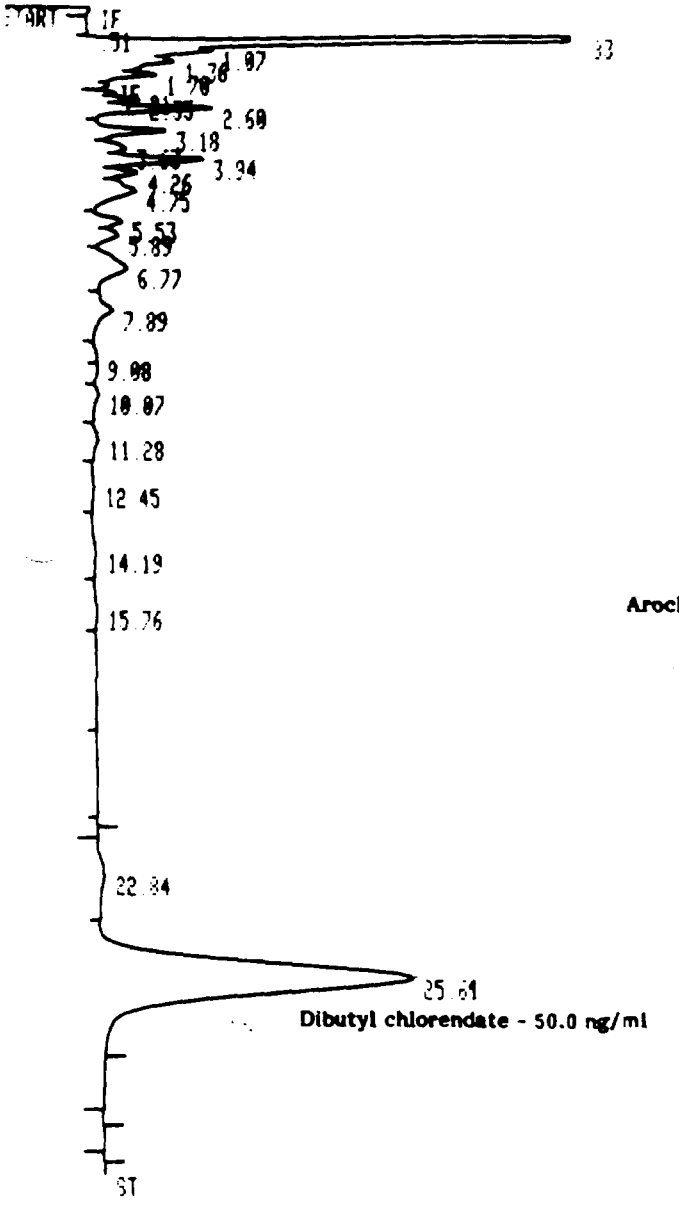
TOTAL AREA= 8549400
MUL FACTOR= 1.0000E+00

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator **COLUMN & PACKING:** [illegible] m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; **CONDITIONS:** Injector at 200C; column at 220C (isothermal); detector at 300C; **VOLUME INJECTED:** 1.0 microliter

Lab No:

AROCLOR-1232 - 100 ng/ml



Aroclor-1232

RUN # 256 SEP/29/86 15:34:13
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 19

AREA%

RT	AREA	TYPE	AR/H	AREA%
0.51	7375	PB	0.30	0.089
0.83	2413700	BB	0.112	29.105
1.07	23453	O BB	0.107	0.283
1.36	31921	O BB	0.105	0.385
1.70	43235	O BB	0.096	0.521
2.21	7748	PB	0.079	0.093
2.35	31539	O BB	0.096	0.380
2.60	211240	BB	0.141	2.547
3.18	146460	BB	0.156	1.766
3.63	36210	BB	0.191	0.437
3.94	204690	BB	0.166	2.468
4.26	50708	BB	0.144	0.611
4.75	151660	BB	0.34[illegible]	1.829
5.53	53405	BB	0.191	0.644
5.89	44322	BB	0.222	0.534
6.77	219090	BB	0.520	2.642
7.89	94258	BB	0.408	1.137
9.08	3864	BB	0.252	0.047
10.07	20629	PB	0.354	0.249
11.28	35569	BB	0.448	0.429
12.45	13369	BB	0.546	0.161
14.19	24139	BB	0.592	0.291
15.76	18669	BB	0.622	0.225
22.84	69916	PB	0.837	0.843
25.61	4336000	BB	0.966	52.284

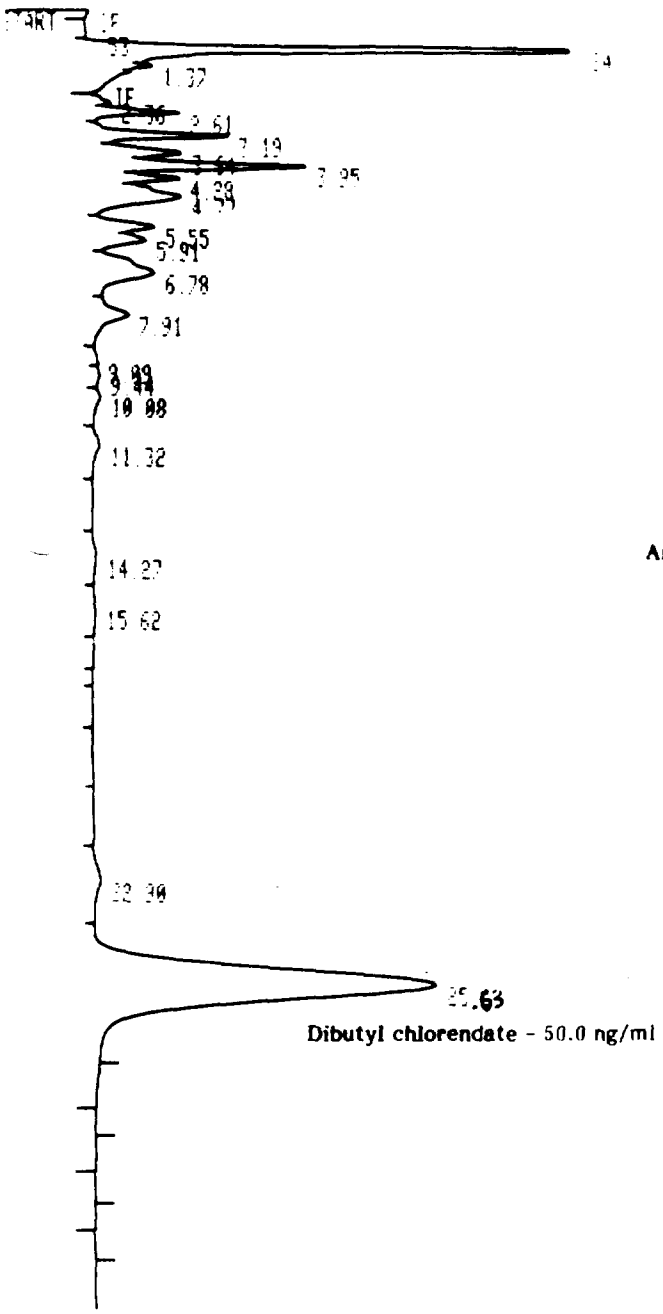
TOTAL AREA= 8293200
MUL FACTOR= 1.0000E+00

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN & PACKING: 5 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Lab No:

AROCLOR-1242 - 75.0 ng/ml



Dibutyl chlorendate - 50.0 ng/ml

RUN # 136 SEP/23/86 13:27:26
WORKFILE ID: C
WORKFILE NAME
SAMPLE # 11

AREA%

RT	AREA	TYPE	AR/H	AREA%
0.53	6823	BB	0.32	0.078
0.84	1656500	BB	0.16	19.030
1.37	14919	D BB	0.07	0.171
2.36	23197	PB	0.15	0.267
2.61	158260	BB	0.14	1.819
3.19	263060	BB	0.14	3.022
3.64	132180	BB	0.17	1.519
3.95	387360	BB	0.159	4.450
4.28	97176	BB	0.14	1.116
4.77	309180	BB	0.34	3.552
5.55	108560	BB	0.19	1.247
5.91	88020	BB	0.22	1.011
6.78	389180	BB	0.51	4.471
7.91	163830	BB	0.38	1.882
9.09	1489	BB	0.12	0.017
9.44	12043	BB	0.32	0.138
10.08	20544	BB	0.32	0.236
11.32	47511	BB	0.50	0.546
14.27	25895	PB	0.57	0.298
15.62	13746	BB	0.76	0.158
22.90	27854	PB	0.80	0.319
25.63	4709400	BB	0.96	54.102
46.16	1881	PB	0.51	0.022

Aroclor-1242

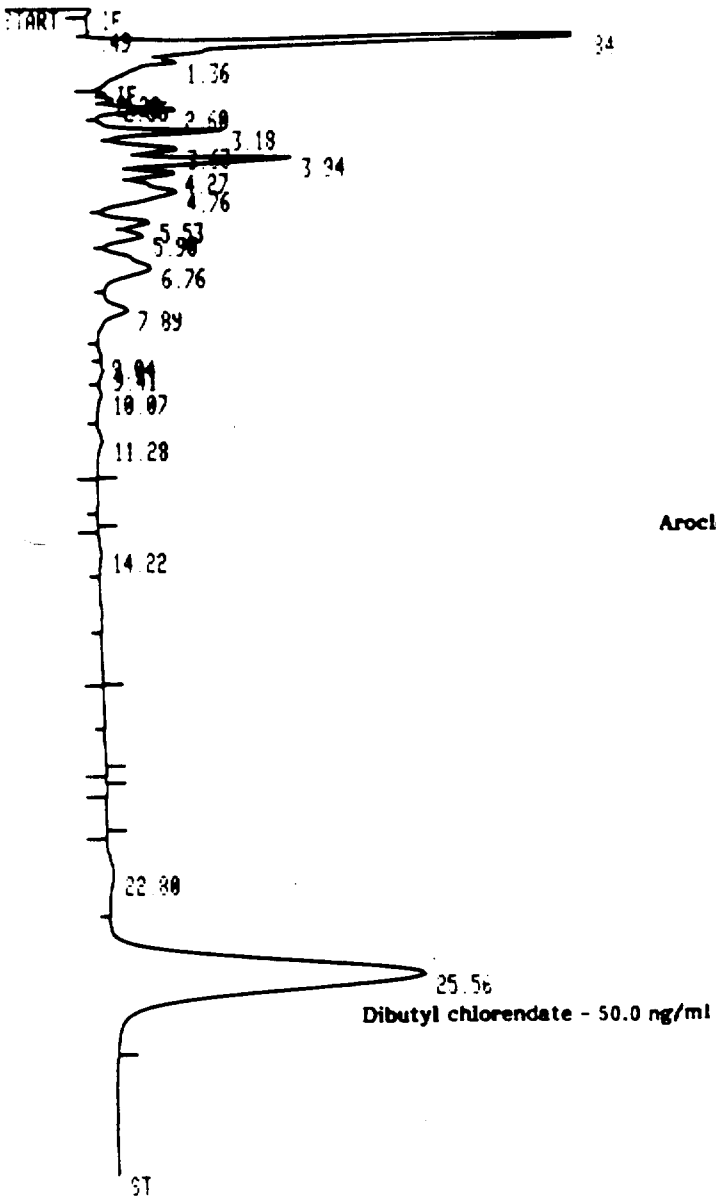
TOTAL AREA= 8704600
MUL FACTOR= 1.0000E+00

PACKED COLUMN-QUANTITATION

STRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN & PACKING: .8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Lab No:

AROCLOR-1242 - 75.0 ng/ml



RUN # 257 SEP/29/86 16 06 57
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 21

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.49	7646	BB	0.28[illegible]	0.092
0.84	1756700	BB	0.156	21.169
1.36	29646 I	BB	0.08[illegible]	0.357
2.22	6036	PB	0.084	0.073
2.36	9348 D	BB	0.08[illegible]	0.113
2.60	146360	BB	0.13[illegible]	1.764
3.18	251630	BB	0.14[illegible]	3.032
3.63	121150	BB	0.175	1.460
3.94	358800	BB	0.15[illegible]	4.324
4.27	90629	BB	0.145	1.092
4.76	327450	BB	0.39[illegible]	3.946
5.53	96289	BB	0.194	1.160
5.90	83766	BB	0.22[illegible]	1.009
6.76	364980	BB	0.536	4.398
7.89	140870	BB	0.37[illegible]	1.698
9.04	1299	BB	0.109	0.016
9.41	12863	BB	0.38[illegible]	0.155
10.07	15866	BB	0.312	0.191
11.28	39676	BB	0.48[illegible]	0.478
14.22	22494	BB	0.551	0.271
22.80	67823	PB	0.81[illegible]	0.81[illegible]
25.56	4347200	BB	0.960	52.386

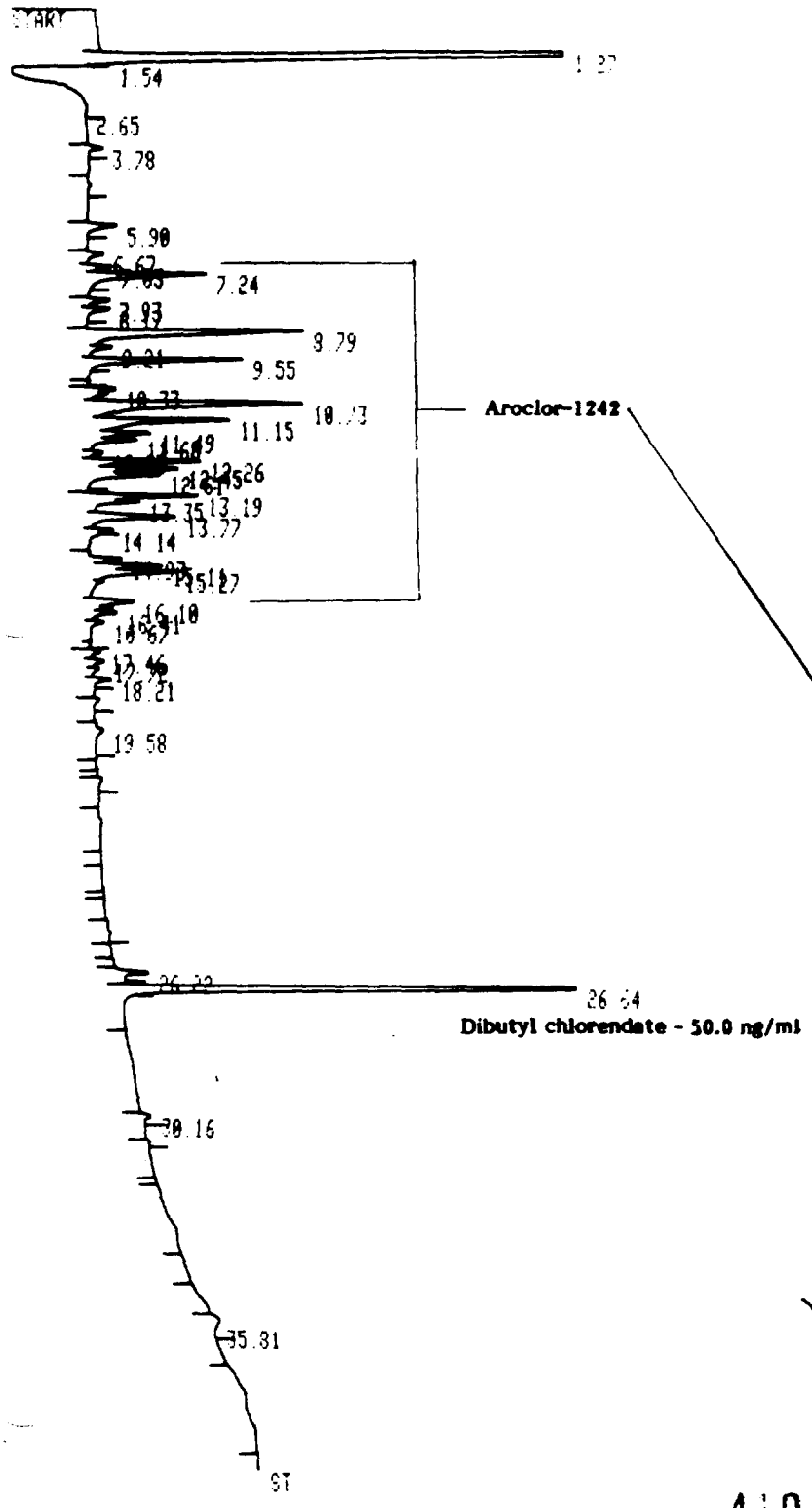
Aroclor-1242

TOTAL AREA= 8298500
MUL FACTOR= 1.0000E+00

CAPILLARY COLUMN-CONFIRMATION

INSTRUMENT: H-P 5890A GC; H-P 7673A Autosampler; H-P 3392A Integrator. **COLUMN:** 30 m long x .25 mm ID fused silica capillary DB-5, 0.25 micrometer film thickness (J&W Scientific) ; helium carrier gas at 1.1 mL/min at 270C and 25 psi; splitless mode; septum purge at 5.5 mL/min; total flow at 27 mL/min; 5% methane/ 95% argon as make-up gas. **CONDITIONS:** Injector at 180C; column temperature programmed with an initial 2 min. hold at 160C and ramped at 3.5C/min to 270C, held for a final 6.5 minutes; detector at 300C. **VOLUME INJECTED:** 2.0 microliters.

Lab No: **AROCLOR-1242 - 75.0 ng/ml**



RUN # 463 SEP/30/86 16:23:53
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 7

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.27	612980	BV	0.152	27.872
1.54	17334	D VP	0.053	0.788
2.65	97704	PB	1.234	4.443
3.78	5021	BB	0.085	0.228
5.90	13969	BB	0.124	0.635
6.67	7253	PP	0.112	0.329
7.03	9261	PV	0.101	0.[illegible]
7.24	57513	VB	0.131	2.[illegible]
7.93	7924	BV	0.094	0.360
8.17	8831	VB	0.102	0.402
8.79	122820	PV	0.153	5.585
9.21	11050	VV	0.120	0.502
9.55	57505	VB	0.101	2.615
10.73	9920	PV	0.091	0.451
10.73	140410	VV	0.176	6.384
11.15	78545	VV	0.149	3.572
11.49	29301	VV	0.126	1.332
11.68	22780	VV	0.126	1.036
12.03	6241	VV	0.103	0.284
12.26	41103	VV	0.098	1.869
12.45	33644	VV	0.101	1.530
12.61	37746	VB	0.141	1.716
13.19	39615	PV	0.098	1.801
13.35	24236	VV	0.129	1.102
13.77	43537	VP	0.137	1.980
14.14	5351	PB	0.075	0.243
14.93	14603	PV	0.114	0.664
15.11	32353	VV	0.119	1.471
15.27	48943	VV	0.153	2.225
16.10	23691	VV	0.138	1.077
16.41	13405	VV	0.124	0.610
16.67	8148	VV	0.140	0.371
17.46	4260	PV	0.106	0.194
17.72	5775	VV	0.112	0.262
18.21	7495	PB	0.104	0.341
19.58	6793	BB	0.202	0.309
26.22	8823	PB	0.083	0.401
IRC - 26.64	471410	PB	0.087	21.475
30.16	2960	PB	0.100	0.135
35.81	8995	BB	0.281	0.409

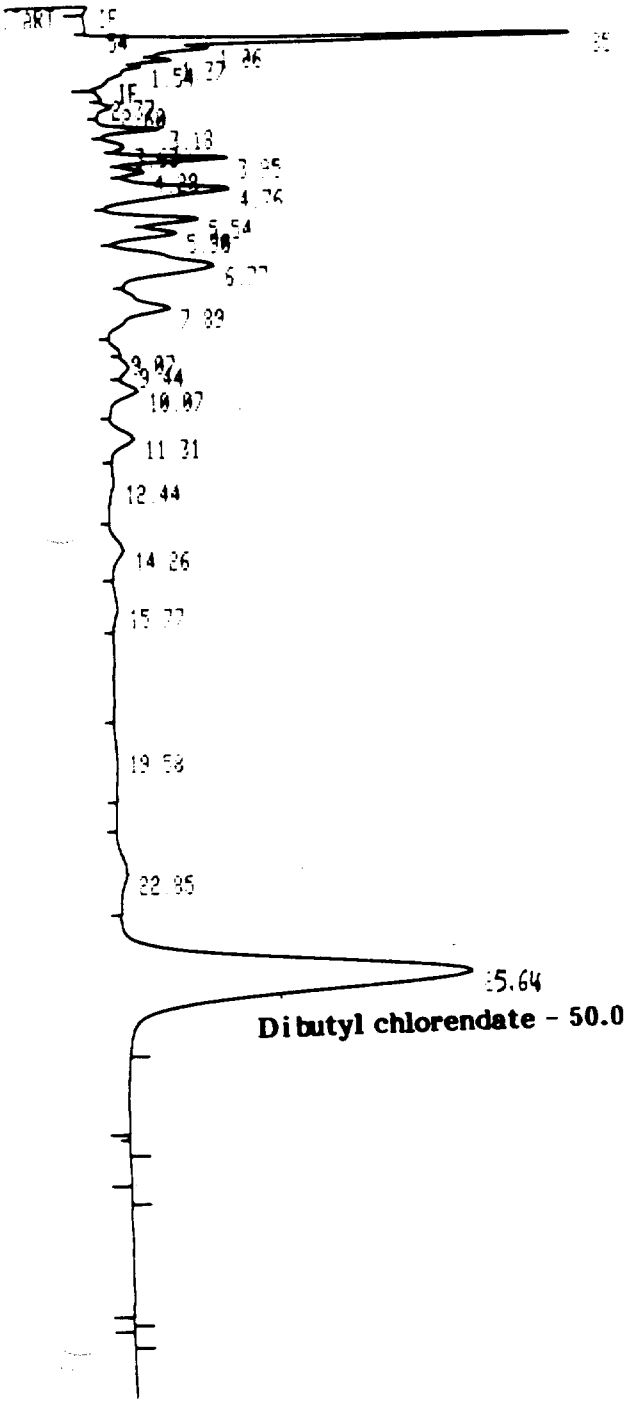
TOTAL AREA= 2199200
MUL FACTOR= 1.0000E+00

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN & PACKING: m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Lab No:

AROCLOR-1248 - 75.0 ng/ml



Dibutyl chlorendate - 50.0 ng/ml

RUN # 132 SEP 23/86 20:25:29
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 13

AREA%

RT	AREA	TYPE	AR/H	AREA%
0.54	7430	BB	0.33.	0.094
0.85	929600	BB	0.118	10.462
1.06	29621	D BB	0.08.	0.333
1.37	28138	D BB	0.07.	0.317
2.37	10052	PB	0.22.	0.113
2.60	25439	BB	0.137	0.286
3.18	125000	BB	0.14.	1.437
3.63	40820	BB	0.135	0.459
3.95	262080	BB	0.16.	2.950
4.28	52129	BB	0.14.	0.587
4.76	549440	BB	0.33.	6.184
5.54	198380	BB	0.19.	2.233
5.90	134920	BB	0.21.	1.518
6.77	283830	BB	0.51.	3.146
7.89	337380	BB	0.44.	3.797
9.07	3776	BB	0.11.	0.043
9.44	37529	BB	0.32.	0.422
10.07	89926	BB	0.30.	1.012
11.31	153430	BB	0.46.	1.727
12.44	21565	BB	0.49.	0.243
14.26	104640	BB	0.59.	1.178
15.77	43526	BB	0.68.	0.490
19.58	37407	PB	1.22.	0.421
22.85	105640	PB	0.87.	1.189
- 25.64	-4804600	BB	0.96.	54.071
42.47	24780	PB	1.56-	0.279
51.14	4601	PB	1.00.	0.052

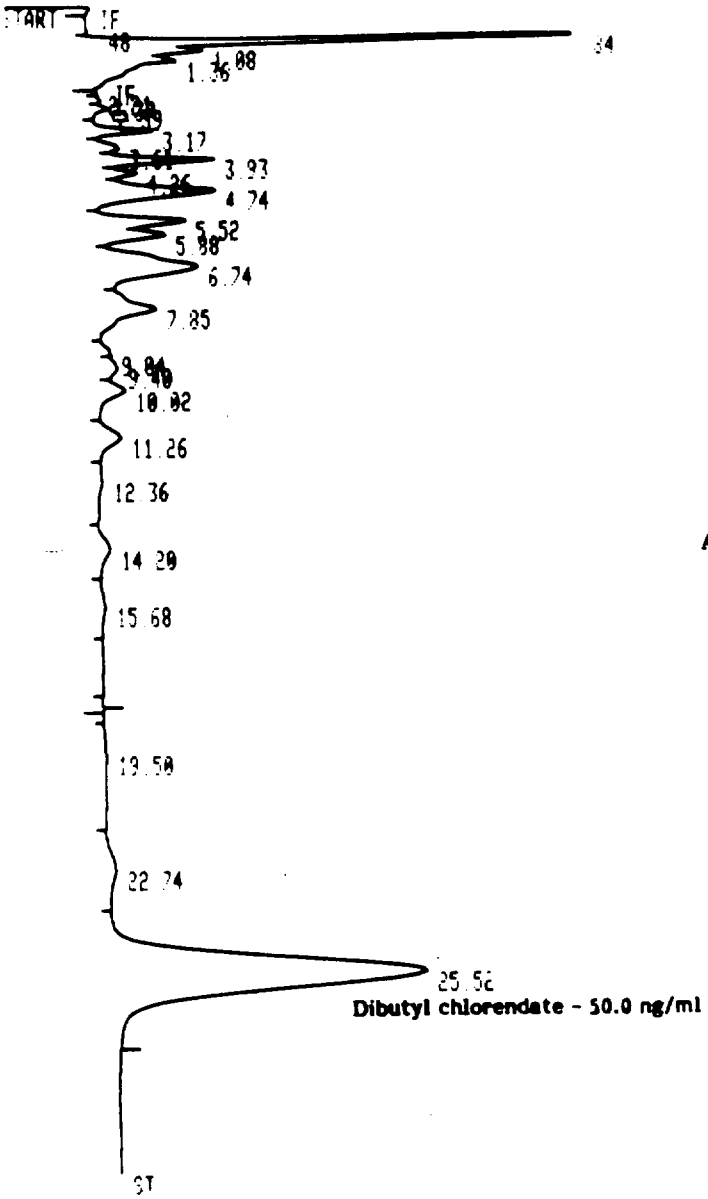
Aroclor-1248

TOTAL AREA= 8885700
MUL FACTOR= 1.0000E+00

PACKED COLUMN-QUANTITATION

STRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN & PACKING: 3 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Lab No: AROCLOR-1248 - 75.0 ng/ml



RUN # 258 SEP/29/86 16:39:39
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 23

AREA%

RT	AREA	TYPE	AR/H	AREA%
0.48	7548	PB	0.32[illegible]	0.092
0.84	1033700	BB	0.11[illegible]	12.610
1.08	44329	BB	0.11[illegible]	0.541
1.36	36718	I BB	0.09[illegible]	0.448
2.21	2106	PB	0.08[illegible]	0.026
2.37	3825	BB	0.10[illegible]	0.047
2.59	19634	BB	0.12[illegible]	0.240
3.17	118460	BB	0.145	1.445
3.61	39188	BB	0.196	0.479
3.93	243730	BB	0.16[illegible]	2.973
4.26	47629	BB	0.14[illegible]	0.581
4.74	475650	BB	0.306	5.802
5.52	181500	BB	0.19[illegible]	2.214
5.88	123310	BB	0.21[illegible]	1.504
6.74	659780	BB	0.51[illegible]	8.048
7.85	302170	BB	0.43[illegible]	3.686
9.04	3424	BB	0.12[illegible]	0.042
9.40	32596	BB	0.317	0.398
10.02	79411	BB	0.30[illegible]	0.969
11.26	135370	BB	0.46[illegible]	1.651
12.36	15341	BB	0.44[illegible]	0.187
14.20	90660	BB	0.59[illegible]	1.106
15.68	35377	BB	0.66[illegible]	0.432
19.50	41705	PB	1.46[illegible]	0.509
22.74	94548	BB	0.84[illegible]	1.153
25.52	4330000	BB	0.961	52.820

Aroclor-1248

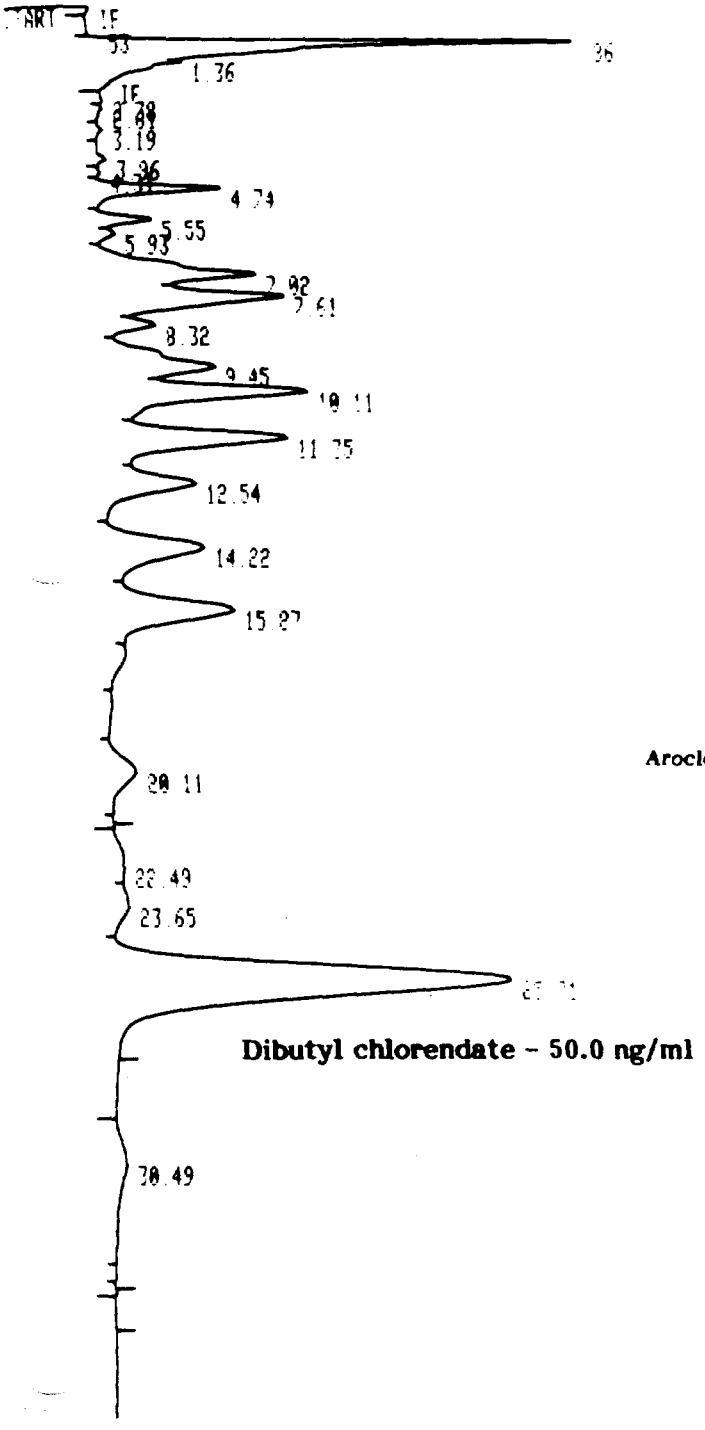
TOTAL AREA= 8197700
MUL FACTOR= 1.0000E+00

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN & PACKING: m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Lab No:

AROCLOR-1254 - 150.0 ng/ml



Dibutyl chlorendate - 50.0 ng/ml

RUN # 138 SEP/23/86 21 36 55
WORKFILE ID: C
WORKFILE NAME
SAMPLE # 15

AREA%

RT	AREA	TYPE	AR/H.	AREA%
0.53	7181	PB	0.33[illegible]	0.051
0.86	1549400	BB	0.18[illegible]	10.999
2.38	4580	PB	0.21[illegible]	0.033
2.61	3092	D BB	0.09[illegible]	0.022
3.19	11239	BB	0.15[illegible]	0.080
3.96	26363	BB	0.20[illegible]	0.187
4.31	5729	BB	0.14[illegible]	0.041
4.74	419940	BB	0.23[illegible]	2.981
5.55	142440	BB	0.20[illegible]	1.011
5.93	27151	BB	0.18[illegible]	0.193
7.02	493960	BB	0.33[illegible]	3.506
7.61	654380	BB	0.35[illegible]	4.645
8.32	109120	BB	0.24[illegible]	0.775
9.45	447170	BB	0.44[illegible]	3.174
10.11	835680	BB	0.37[illegible]	5.932
11.35	999900	BB	0.456	7.098
12.54	480390	BB	0.45[illegible]	3.410
14.22	795220	BB	0.61[illegible]	5.645
15.87	979430	BB	0.61[illegible]	6.952
20.11	285160	PB	0.78[illegible]	2.024
22.49	49496	PB	0.78[illegible]	0.351
23.65	94479	BB	0.71[illegible]	0.671
25.71	5421700	BB	0.95[illegible]	38.486
30.49	203280	BB	1.36[illegible]	1.443
44.87	41136	BB	2.02[illegible]	0.292

Aroclor-1254

TOTAL AREA= 1.4088E+07
MUL FACTOR= 1.0000E+00

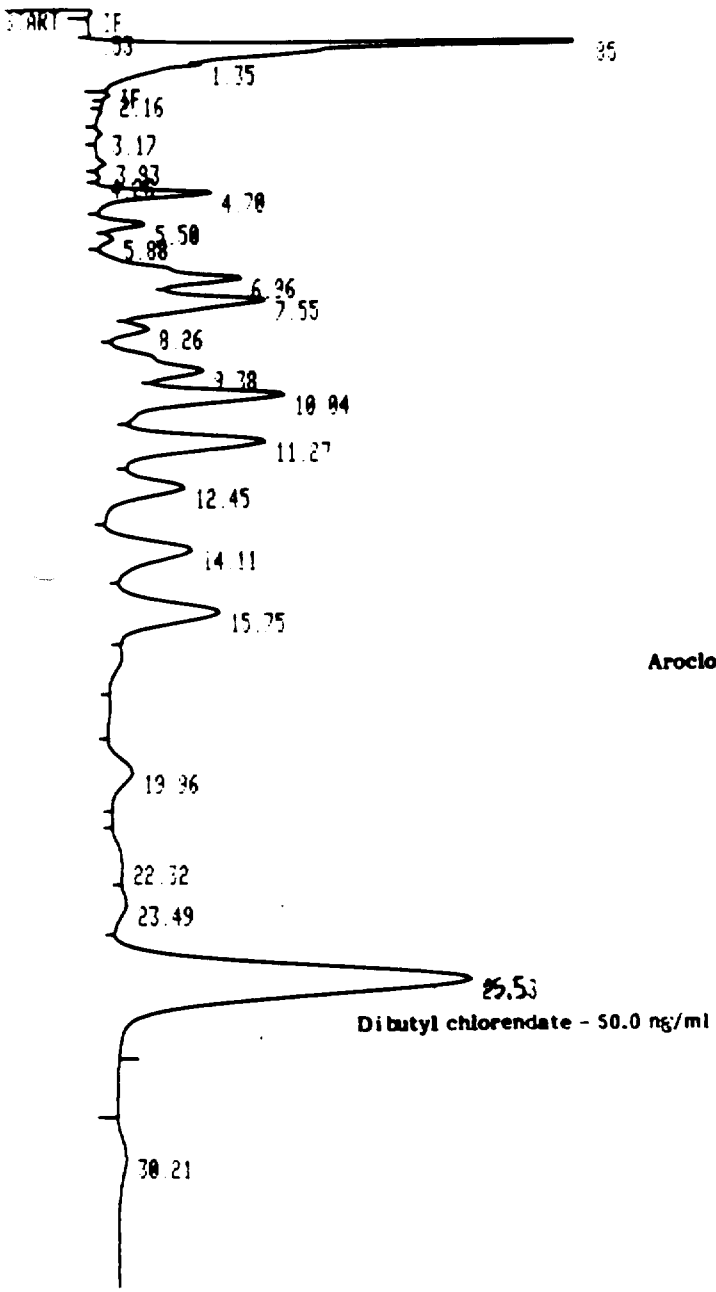
032-19

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN & PACKING: 1.8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Lab No:

AROCLOR-1254 - 150.0 ng/ml



RUN # 259 SEP/29/86 17:20:57
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 11

AREA%

RT	AREA	TYPE	AR/H	AREA%
0.53	8152	PB	0.32	0.063
0.85	1791800	BB	0.176	13.739
2.16	7316 D	BB	0.10	0.056
3.17	12045	PB	0.166	0.092
3.93	26058	BB	0.22	0.200
4.26	5214	BB	0.15	0.040
4.70	393230	BB	0.23	3.015
5.50	123990	BB	0.20	0.951
5.88	26457	BB	0.19	0.203
6.96	452200	BB	0.338	3.467
7.55	587830	BB	0.35	4.507
8.26	97713	BB	0.242	0.749
9.38	409750	BB	0.451	3.142
10.04	751160	BB	0.376	5.760
11.27	892780	BB	0.44	6.846
12.45	427180	BB	0.452	3.275
14.11	713330	BB	0.61	5.470
15.75	879130	BB	0.612	6.741
19.36	248560	PB	0.762	1.906
22.32	43869	PB	0.726	0.336
23.49	82269	BB	0.69	0.631
25.53	4886500	BB	0.954	37.463
30.21	175350	BB	1.39	1.345

Aroclor-1254

TOTAL AREA= 1.3042E+07
MUL FACTOR= 1.0000E+00

2 2 0568

Laboratory Name CLayton

Client: Enviresponse

Sample Number
M-BLANK(4W)

037-03

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared Sept, 18, 1986

Date Analyzed Sept. 23, 1986

Conc/Dil Factor 1

Percent Moisture (decanted) ——

GPC Cleanup ☐Yes ☒No.

Separatory Funnel Extraction ☒Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 ug
319-85-7	Beta-BHC	0.05 ug
319-86-8	Delta-BHC	0.05 ug
58-89-9	Gamma-BHC (Lindane)	0.05 ug
76-44-8	Heptachlor	0.05 ug
309-00-2	Aldrin	0.05 ug
1024-57-3	Heptachlor Epoxide	0.05 ug
959-98-8	Endosulfan I	0.05 ug
60-57-1	Dieldrin	0.10 ug
72-55-9	4,4'-DDE	0.10 ug
72-20-8	Endrin	0.10 ug
33213-65-9	Endosulfan II	0.10 ug
72-54-8	4,4'-DDD	0.10 ug
1031-07-8	Endosulfan Sulfate	0.10 ug
50-29-3	4,4'-DDT	0.10 ug
72-43-5	Methoxychlor	0.5 ug
53494-70-5	Endrin Ketone	0.10 ug
57-74-9	Chlordane	0.5 ug
8001-35-2	Toxaphene	1.0 ug
12674-11-2	Aroclor-1016	0.5 ug
11104-28-2	Aroclor-1221	0.5 ug
11141-16-5	Aroclor-1232	0.5 ug
53469-21-9	Aroclor-1242	0.5 ug
12672-29-6	Aroclor-1248	0.5 ug
11097-69-1	Aroclor-1254	1.0 ug
11096-82-5	Aroclor-1260	1.0 ug

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s —— V_t 10,000 µl V_i 1 µl

R.H 9-30-1986

VTO 10-1-86

Form 1

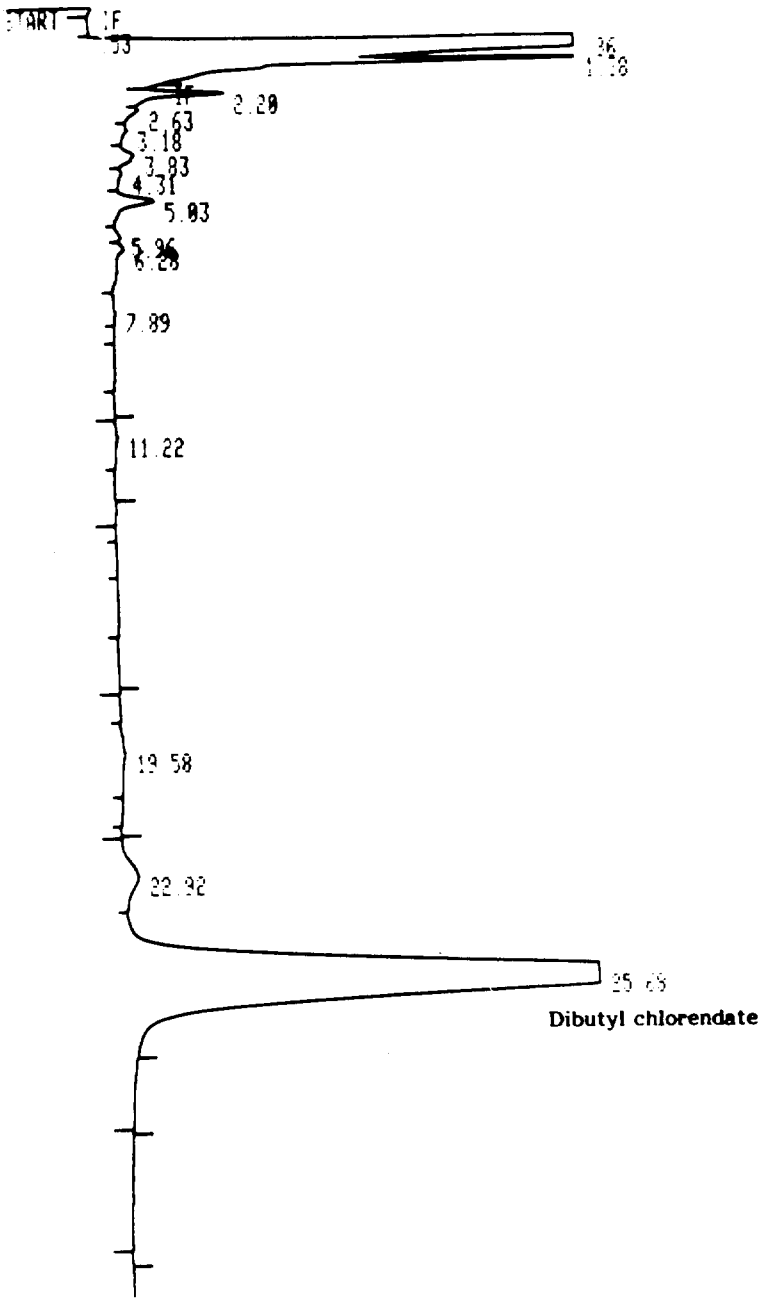
7/85

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN & PACKING: 1 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Lab No:

M-BLANK I (L/W)



RUN # 139 SEP/23/86 22 28 40
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 17

AREA%

RT	AREA	TYPE	AR/H	AREA%
0.53	7432	BB	0.33	0.042
0.86	8056900	SPB	0.151	45.882
1.38	68139	D BB	0.01	0.388
2.20	151390	PB	0.135	0.862
2.63	7010	D BB	0.150	0.040
3.18	7949	BB	0.196	0.045
3.83	57658	BB	0.30	0.328
4.31	4570	BB	0.146	0.026
5.03	136360	BB	0.25	0.777
5.96	7648	BB	0.178	0.044
6.28	31975	BB	0.34	0.182
7.89	9953	BB	0.475	0.057
11.22	18218	BB	0.53	0.104
19.58	38324	PB	0.826	0.218
22.92	154830	PB	0.79	0.882
25.68	8801600	BB	0.974	50.123

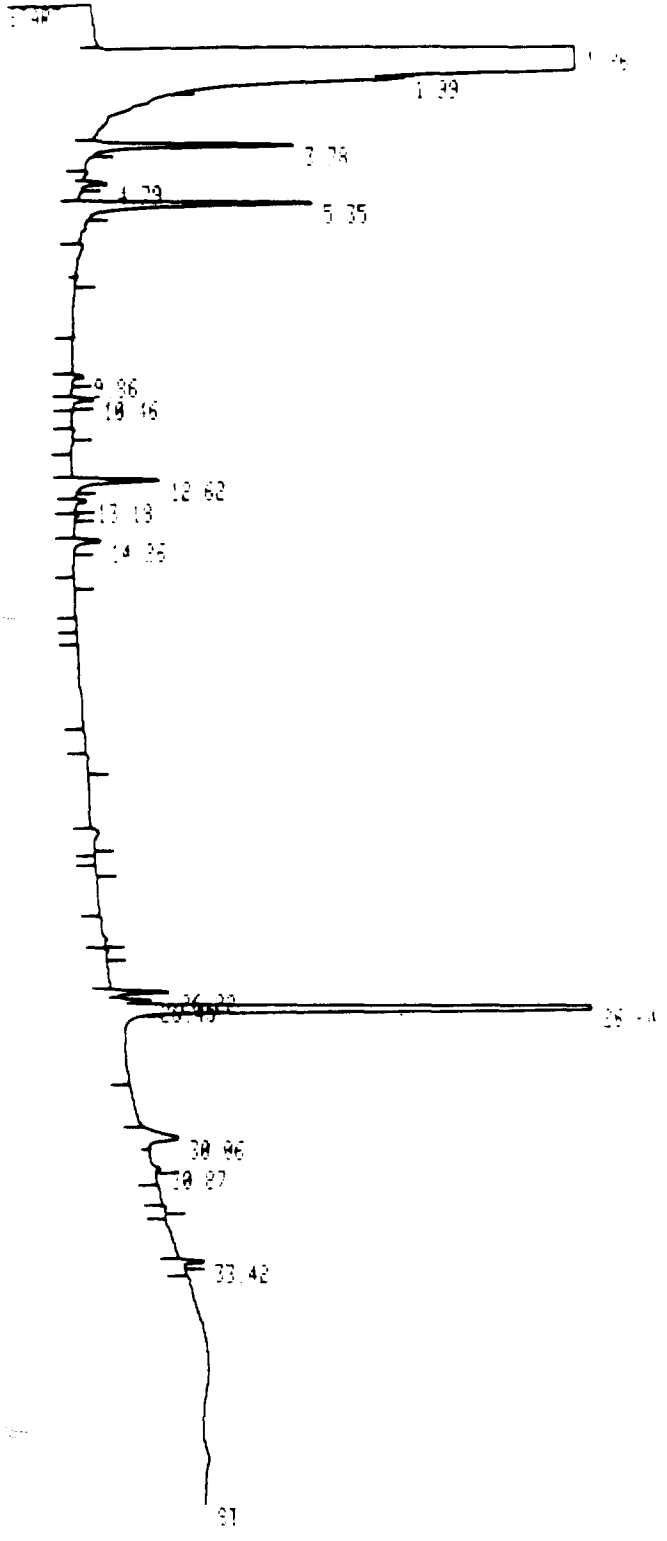
TOTAL AREA= 1.7560E+07
MUL FACTOR= 1.0000E+00

2 2 0570
04-02

CAPILLARY COLUMN CONFIRMATION

INSTRUMENT: H-P 5890A GC; H-P 7673A Autosampler; H-P 3392A Integrator. **COLUMN:** 30 m long x .25 mm ID fused silica capillary DB-5, 0.25 micrometer film thickness (J&W Scientific) ; helium carrier gas at 1.1 mL/min at 270C and 25 psi; splitless mode; septum purge at 5.5 mL/min; total flow at 27 mL/min; 5% methane/ 95% argon as make-up gas. **CONDITIONS:** Injector at 180C; column temperature programmed with an initial 2 min. hold at 160C and ramped at 3.5C/min to 270C, held for a final 6.5 minutes; detector at 300C. **VOLUME INJECTED:** 2.0 microliters.

Lab No: M-Blank (4/w)



Dibutyl chlorendate

RUN # 464 SEP/30/86 17 10 11
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 8

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.26	1.3346E+07	PB	0.222	91.497
3.78	80006	BB	0.111	0.549
4.79	8561	PB	0.093	0.059
5.35	114440	BB	0.138	0.785
9.86	3628	PB	0.083	0.025
10.46	7365	PB	0.094	0.051
12.62	37515	BB	0.123	0.257
13.18	3511	PB	0.086	0.024
14.26	11081	BB	0.112	0.076
26.22	15400	PP	0.080	0.106
26.45	7933	PV	0.081	0.054
26.64	915520	VB	0.087	6.277
30.06	26572	BV	0.223	0.182
30.87	1578	VB	0.077	0.011
33.42	7184	PB	0.084	0.049

TOTAL AREA= 1.4586E+07
MUL FACTOR= 1.0000E+00

2 2 0571

Laboratory Name Clayton

Client Envirosponse

Sample Number
M-Blank I (oil)

037-06

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration Low Medium (Circle One)

Date Extracted/Prepared: 25 Sept. 1986

Date Analyzed: 30 Sept. 1986

Conc/Dil Factor: 1/2 (GPC Effect) - 1

Percent Moisture (decanted) ——

GPC Cleanup ☑Yes ☐No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	80 u
319-85-7	Beta-BHC	80 u
319-86-8	Delta-BHC	80 u
58-89-9	Gamma-BHC (Lindane)	80 u
76-44-8	Heptachlor	80 u
309-00-2	Aldrin	80 u
1024-57-3	Heptachlor Epoxide	80 u
959-98-8	Endosulfan I	80 u
60-57-1	Dieldrin	160 u
72-55-9	4, 4'-DDE	160 u
72-20-8	Endrin	160 u
33213-65-9	Endosulfan II	160 u
72-54-8	4, 4'-DDD	160 u
1031-07-8	Endosulfan Sulfate	160 u
50-29-3	4, 4'-DDT	160 u
72-43-5	Methoxychlor	800 u
53494-70-5	Endrin Ketone	160 u
57-74-9	Chlordane	800 u
8001-35-2	Toxaphene	1600 u
12674-11-2	Aroclor-1016	800 u
11104-28-2	Aroclor-1221	800 u
11141-16-5	Aroclor-1232	800 u
53469-21-9	Aroclor-1242	800 u
12672-29-6	Aroclor-1248	800 u
11097-69-1	Aroclor-1254	1600 u
11096-82-5	Aroclor-1260	1600 u

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s —— or W_s 1.50 V_t 1000 ul V_i 1.0 ul

T.O. 10-2-86

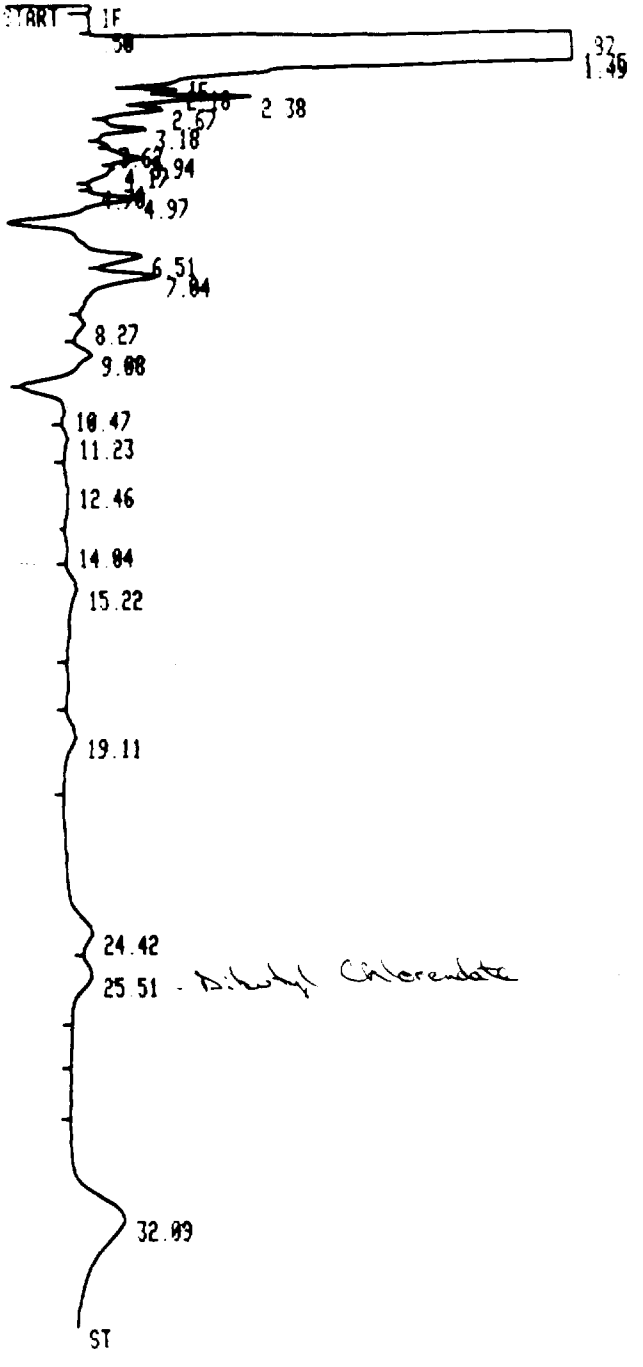
Form 1

7 85

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN & PACKING: .8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Lab No: oil M-BLANK I



RUN # 274 SEP/30/.. 08:49:46
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 1

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.50	5069	PB	0.33	0.010
0.87	4.5750E+07	SPB	0.154	90.613
1.35	691420	D BB	0.09	1.370
2.18	35576	PB	0.087	0.071
2.38	170900	BB	0.11	0.339
2.67	83276	BB	0.15	0.165
3.18	100400	BB	0.15	0.199
3.62	2969	BB	0.097	0.006
3.94	79380	BB	0.182	0.157
4.17	29429	D BB	0.338	0.058
4.70	2246	BB	0.09	0.005
4.97	424500	BB	0.446	0.841
6.51	590990	BB	0.64	1.171
7.04	257180	BB	0.289	0.509
8.27	28698	BB	0.30	0.057
9.08	388800	BB	0.834	0.770
10.47	169560	BB	0.65	0.336
11.23	30533	BB	0.439	0.061
12.46	56531	BB	1.11	0.112
14.04	14583	BB	0.491	0.029
15.22	137990	BB	0.918	0.273
19.11	113430	VB	0.796	0.225
25.51	102260	BB	0.59	0.203
32.09	1223800	I PP	1.678	2.424

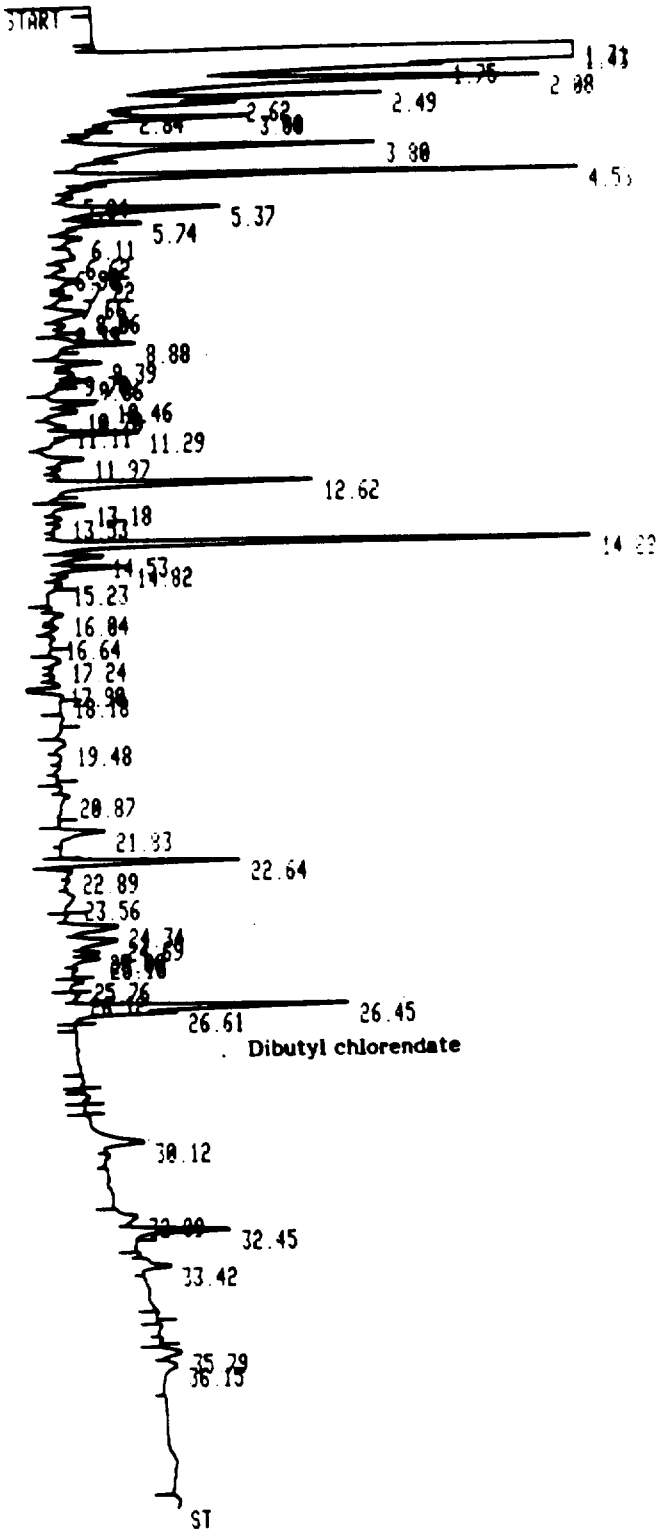
TOTAL AREA= 5.0489E+07
MUL FACTOR= 1.0000E+00

2 2 0573
041-04

CAPILLARY COLUMN CONFIGURATION

INSTRUMENT: H-P 5890A GC; H-P 7673A Autosampler; H-P 3392A Integrator. **COLUMN:** 30 m long x .25 mm ID fused silica capillary DB-5, 0.25 micrometer film thickness (J&W Scientific) ; helium carrier gas at 1.1 mL/min at 270C and 25 psi; splitless mode; septum purge at 5.5 mL/min; total flow at 27 mL/min; 5% methane/ 95% argon as make-up gas. **CONDITIONS:** Injector at 180C; column temperature programmed with an initial 2 min. hold at 160C and ramped at 3.5C/min to 270C, held for a final 6.5 minutes; detector at 300C. **VOLUME INJECTED:** 2.0 microliters.

Lab No: M-Blank I (oil)



RUN # 472 SEP/30/86 23:19:09
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 16

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.31	9965000	BV	0.134	57.918
1.43	4741700	D VV	0.093	27.559
1.75	171360	VV	0.136	0.996
2.08	316720	VV	0.196	1.841
2.49	104340	VV	0.100	0.606
2.62	53533	VV	0.104	0.311
2.84	12928	VV	0.095	0.075
3.00	54330	VV	0.097	0.316
3.80	128910	PV	0.121	0.749
4.53	144740	PB	0.078	0.841
5.04	3871	PP	0.095	0.023
5.37	35485	PV	0.146	0.497
5.74	33888	VV	0.110	0.197
6.11	15038	VV	0.155	0.087
6.62	21479	VV	0.273	0.125
6.90	7648	VP	0.161	0.045
7.22	17165	PV	0.159	0.100
7.66	9653	VP	0.125	0.056
8.06	22812	PP	0.193	0.133
8.39	2951	PV	0.084	0.017
8.88	29291	BB	0.104	0.170
9.39	15842	BV	0.092	0.092
9.70	10849	VV	0.155	0.063
9.96	9475	VB	0.083	0.055
10.46	23937	BV	0.110	0.139
10.70	19962	VV	0.161	0.116
11.11	12861	VV	0.141	0.075
11.29	39693	VV	0.113	0.231
11.97	24668	PV	0.160	0.143
12.62	119010	VB	0.127	0.692
13.18	15359	BV	0.117	0.089
13.53	4276	VV	0.109	0.025
14.22	262410	PB	0.086	1.525
14.53	18197	BV	0.117	0.106
14.82	23733	VV	0.095	0.138
15.23	2514	PB	0.075	0.015
16.84	7770	VV	0.129	0.045
16.64	3472	PB	0.111	0.020
17.24	22748	BV	0.235	0.132
17.90	43877	VP	0.174	0.255
18.18	19804	PB	0.205	0.115
19.48	7186	PP	0.193	0.042
20.87	12553	VB	0.272	0.073
21.33	25787	PV	0.150	0.150
22.64	75538	BP	0.111	0.439
22.89	17464	PV	0.163	0.102
23.56	24375	VB	0.390	0.142
24.34	33205	PV	0.173	0.193
24.69	34817	VV	0.193	0.202
25.00	11598	VV	0.105	0.067
25.16	12759	VV	0.123	0.074
25.76	3472	BB	0.086	0.020
26.12	4338	BV	0.142	0.025
26.45	118420	VV	0.120	0.689
26.61	36076	VB	0.098	0.210
30.12	44270	BV	0.249	0.257
32.09	11890	BV	0.185	0.069
32.45	40322	VB	0.112	0.234
33.42	17076	VB	0.149	0.099
35.79	14308	BV	0.184	0.083
36.15	16611	VB	0.287	0.097

TOTAL AREA= 1.7205E+07
MUL FACTOR= 1.0000E+00

2 2 0574

Laboratory Name Clayton

Client: Envirosphere

Sample Number
7334 MS-01

042-03

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 25 Sept 1986

Date Analyzed 29 Sept. 1986

Conc/Dil Factor 1/2 (GPC Effect) - 1/100

Percent Moisture (decanted) ——

GPC Cleanup ☒Yes ☐No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	79 u
319-85-7	Beta-BHC	79 u
319-86-8	Delta-BHC	79 u
58-89-9	Gamma-BHC (Lindane)	DL
76-44-8	Heptachlor	DL
309-00-2	Aldrin	DL
1024-57-3	Heptachlor Epoxide	79 u
959-98-8	Endosulfan I	79 u
60-57-1	Dieldrin	DL
72-55-9	4, 4'-DDE	160 u
72-20-8	Endrin	DL
33213-65-9	Endosulfan II	160 u
72-54-8	4, 4'-DDD	160 u
1031-07-8	Endosulfan Sulfate	160 u
50-29-3	4, 4'-DDT	DL
72-43-5	Methoxychlor	790 u
53494-70-5	Endrin Ketone	160 u
57-74-9	Chlordane	790 u
8001-35-2	Toxaphene	1600 u
12674-11-2	Aroclor-1016	790 u
11104-28-2	Aroclor-1221	790 u
11141-16-5	Aroclor-1232	790 u
53469-21-9	Aroclor-1242	34000
12672-29-6	Aroclor-1248	790 u
11097-69-1	Aroclor-1254	1600 u
11096-82-5	Aroclor-1260	15000

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s —— or W_s 15g V_t 5000ul 500000ul - 1000ul. V_i 1.0ul

473

T.O. 10-2-86

Form 1

7 85

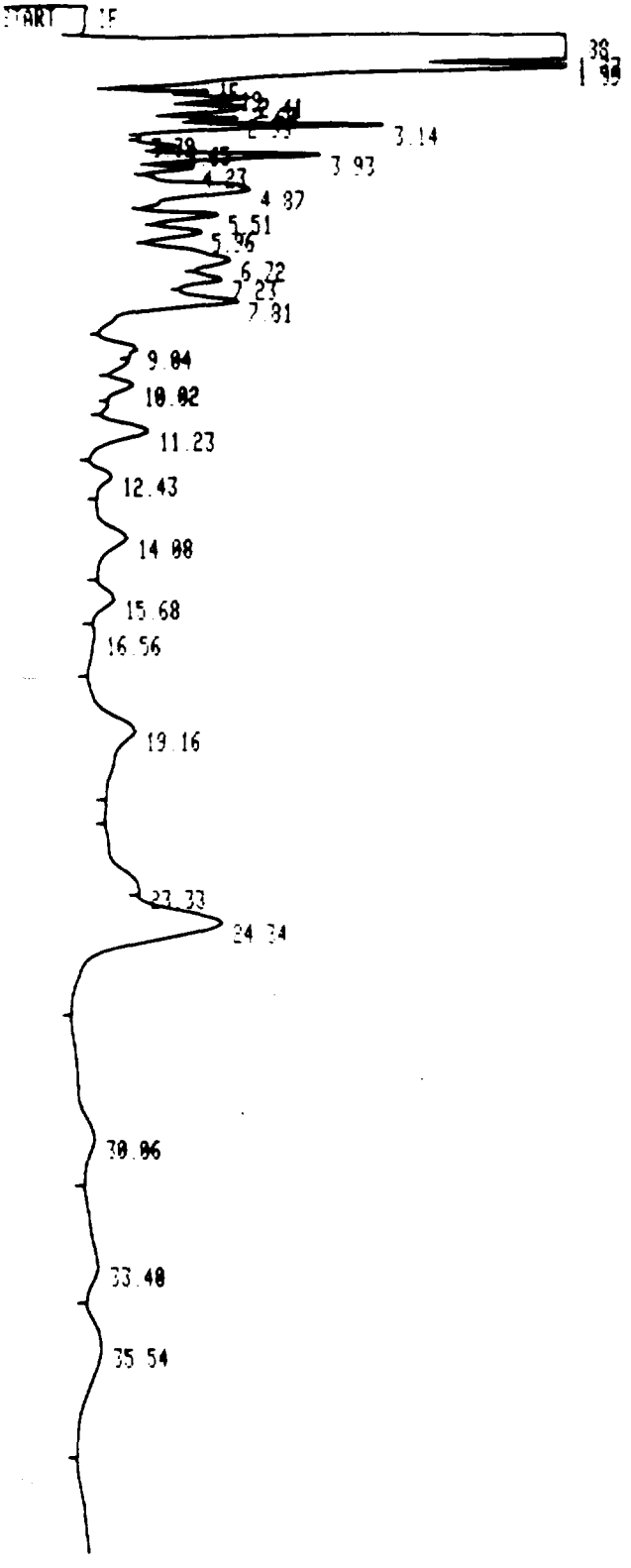
045-01

PACKED COLUMN-QUANTITATION

2 2 0575

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator **COLUMN & PACKING:** 8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; **CONDITIONS:** Injector at 200C; column at 220C (isothermal); detector at 300C; **VOLUME INJECTED:** 1.0 microliter

Sample Description: 7334 (oil)
Lab No: 493439 MS (Y100 Dilution)



RUN # 263 SEP/29/86 31 29 15
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 19

AREA%

RT	AREA	TYPE	AR/H.	AREA%
0.88	9.3741E+07	†SBB	0.19.	90.966
1.37	365120	D BB	0.111	0.354
1.59	608020	I BB	0.16.	0.590
2.19	72638	PB	0.092	0.071
2.41	121710	BB	0.12.	0.118
2.63	193230	BB	0.200	0.188
2.93	80789	BB	0.09.	0.078
3.14	400860	BB	0.129	0.389
3.39	1798	D BB	0.07.	0.002
3.65	48731	BB	0.11.	0.047
3.93	397750	BB	0.16.	0.386
4.23	87964	BB	0.13.	0.085
4.87	622490	BB	0.39.	0.604
5.51	196510	BB	0.191	0.191
5.96	178010	BB	0.23.	0.173
6.72	343990	BB	0.446	0.334
7.23	96766	BB	0.19.	0.094
7.81	249640	BB	0.211	0.242
9.04	66117	BB	0.24.	0.064
10.02	107450	PB	0.30.	0.104
11.23	335139	PB	0.45.	0.325
12.43	113080	BB	0.41.	0.110
14.08	284090	BB	0.65.	0.276
15.68	147470	BB	0.52.	0.143
16.56	23159	BB	0.63.	0.023
19.16	602390	BB	1.09.	0.585
24.34	970270	BB	0.66.	0.942
30.06	240380	BB	1.30.	0.233
33.40	242480	BB	1.46.	0.235
35.54	449150	BB	1.79.	0.436
41.69	72548	BB	6.33.	0.070
43.64	184400	BB	1.85.	0.179
47.73	1004700	BB	3.61.	0.975
56.68	400550	BB	2.73.	0.389

Aroclor 1242

Aroclor 1260

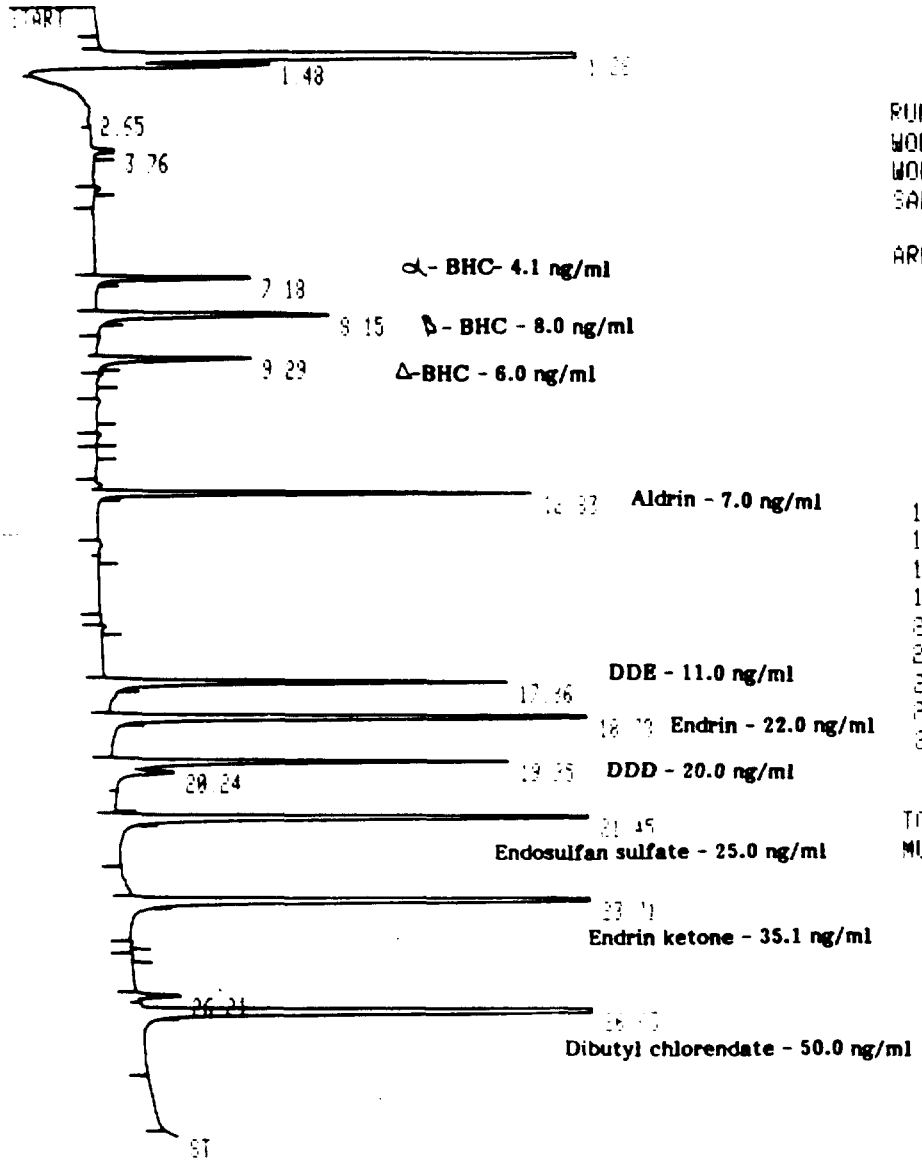
TOTAL AREA= 1.0305E+08
MUL FACTOR= 1.0000E+00

CAPILLARY COLUMN-CONFIRMATION

INSTRUMENT: H-P 5890A GC; H-P 7673A Autosampler; H-P 3392A Integrator. **COLUMN:** 30 m long x .25 mm ID fused silica capillary DB-5, 0.25 micrometer film thickness (J&W Scientific) ; helium carrier gas at 1.1 mL/min at 270C and 25 psi; splitless mode; septum purge at 5.5 mL/min; total flow at 27 mL/min; 5% methane/ 95% argon as make-up gas. **CONDITIONS:** Injector at 180C; column temperature programmed with an initial 2 min. hold at 160C and ramped at 3.5C/min to 270C, held for a final 6.5 minutes; detector at 300C. **VOLUME INJECTED:** 2.0 microliters.

Lab No:

INDIVIDUAL STANDARD MIX B



RUN # 461 SEP/30/86 15:01:32
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 5

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.26	537180	BV	0.140	15.614
1.48	94092	VP	0.120	2.735
2.65	111560	PV	0.910	3.243
3.76	54253	VB	0.552	1.577
7.18	48361	PB	0.087	1.406
8.15	81315	PB	0.098	2.364
9.29	56633	PB	0.102	1.646
12.37	128360	PB	0.082	3.731
17.36	136650	PB	0.095	3.972
18.78	319490	PB	0.086	9.286
19.95	155430	BV	0.109	4.519
20.24	36293	VV	0.162	1.055
21.45	360770	PB	0.087	10.486
23.71	504730	PB	0.086	14.670
26.21	12560	PP	0.080	0.365
26.63	802780	PB	0.086	23.334

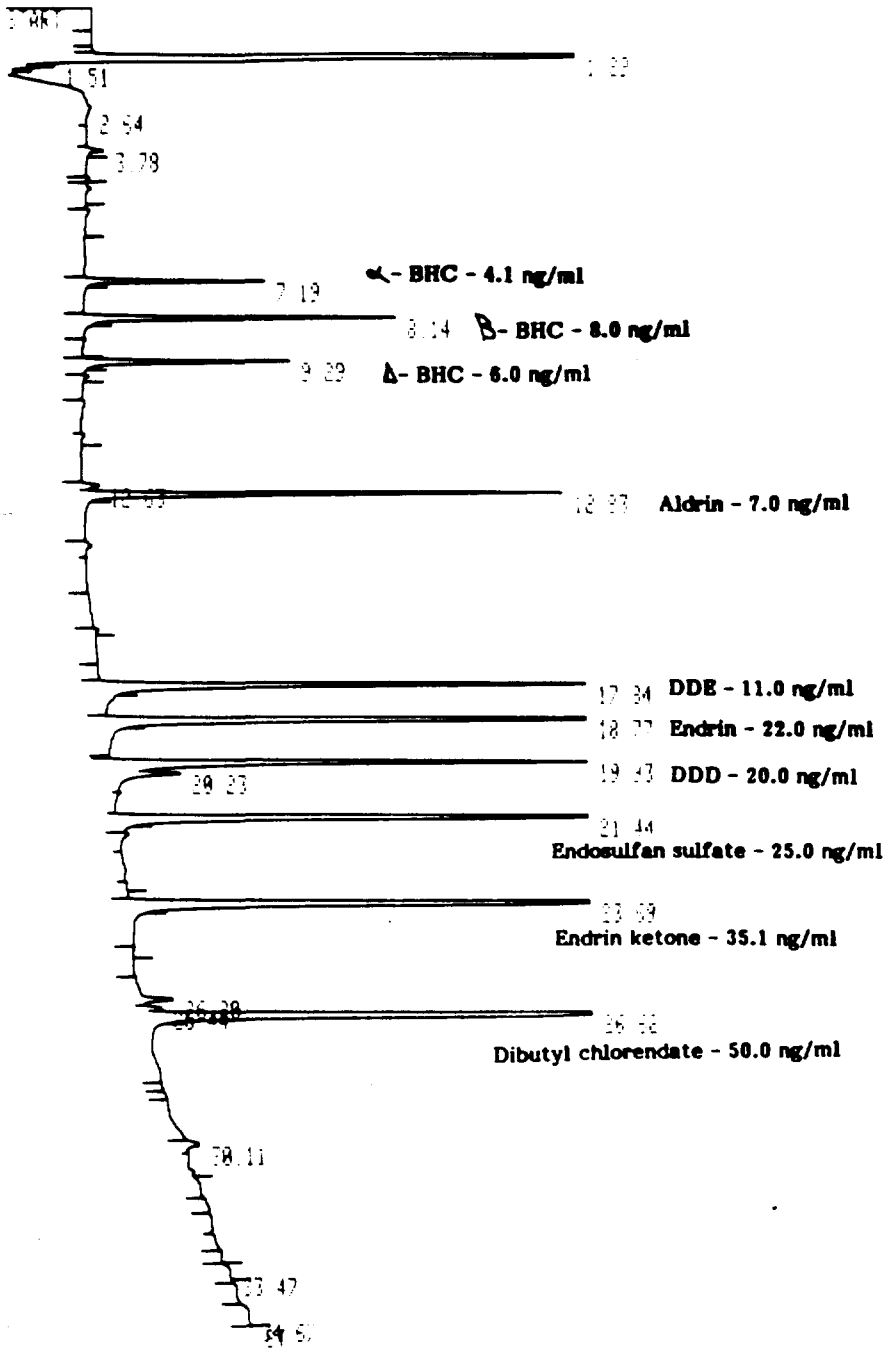
TOTAL AREA= 3440400
MUL FACTOR= 1.0000E+00

CAPILLARY COLUMN-CONFIRMATION

INSTRUMENT: H-P 5890A GC; H-P 7673A Autosampler; H-P 3392A Integrator. **COLUMN:** 30 m long x .25 mm ID fused silica capillary DB-5, 0.25 micrometer film thickness (J&W Scientific) ; helium carrier gas at 1.1 mL/min at 270C and 25 psi; splitless mode; septum purge at 5.5 mL/min; total flow at 27 mL/min; 5% methane/ 95% argon as make-up gas. **CONDITIONS:** Injector at 180C; column temperature programmed with an initial 2 min. hold at 160C and ramped at 3.5C/min to 270C, held for a final 6.5 minutes; detector at 300C. **VOLUME INJECTED:** 2.0 microliters.

Lab No:

INDIVIDUAL STANDARD MIX B



RUN # 477 OCT/01/86 09:08:30
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 21

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.29	327550	BP	0.123	11.489
1.51	4045	PB	0.047	0.142
2.64	169730	PV	0.990	5.953
3.78	13325	VB	0.164	0.467
7.19	46095	PB	0.072	1.617
8.14	86787	PB	0.078	3.044
9.29	60518	PB	0.082	2.123
12.63	5518	PV	0.102	0.194
12.83	144380	VB	0.084	5.064
17.84	176470	PB	0.093	6.190
18.77	311650	PB	0.088	10.931
19.93	194470	BV	0.112	6.821
20.23	43641	VV	0.179	1.531
21.44	308390	PB	0.088	10.817
23.69	374480	PB	0.090	13.135
26.20	9179	PP	0.085	0.322
26.44	4024	PV	0.082	0.141
26.62	555250	VB	0.089	19.475
30.11	6365	BP	0.129	0.223
33.47	3561	PB	0.256	0.125
34.67	5594	BB	0.462	0.196

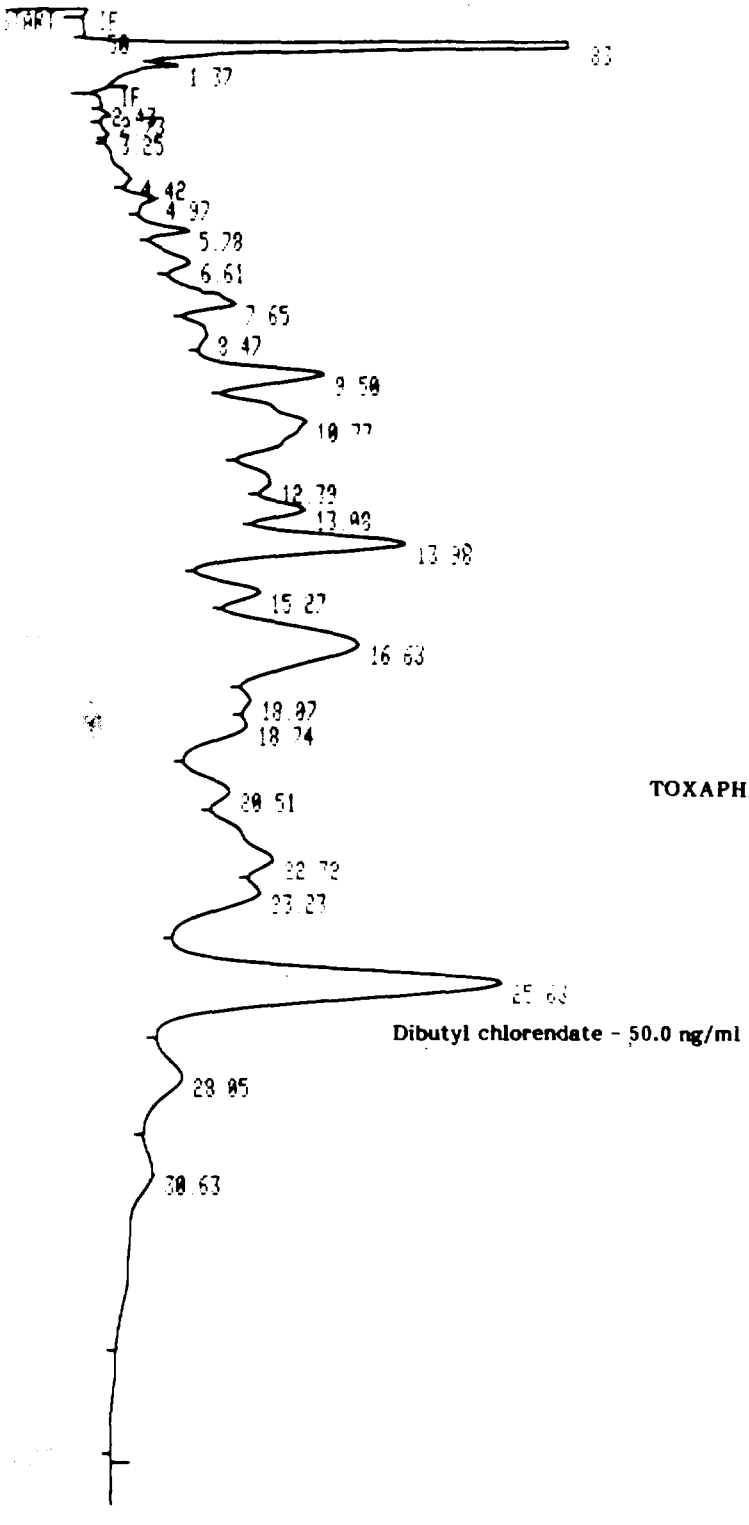
TOTAL AREA= 2851000
MUL FACTOR= 1.0000E+00

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator **COLUMN & PACKING:** .8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; **CONDITIONS:** Injector at 200C; column at 220C (isothermal); detector at 300C; **VOLUME INJECTED:** 1.0 microliter

Lab No:

TOXAPHENE - 500.0 ng/ml



Dibutyl chlorendate - 50.0 ng/ml

RUN # 131 SEP/23/86 15:27:25
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 1

AREA%

RT	AREA	TYPE	AR/H	AREA%
0.50	6576	PB	0.31[illegible]	0.036
0.83	5003500	SPB	0.12[illegible]	27.276
1.37	29894	D BR	0.96[illegible]	0.163
2.43	17681	PB	0.37[illegible]	0.096
2.73	16514	BB	0.13[illegible]	0.090
3.25	8693	BB	0.141	0.047
4.42	63070	PB	0.40[illegible]	0.344
4.97	92287	BB	0.266	0.503
5.78	143120	BB	0.23[illegible]	0.780
6.61	165350	BB	0.40[illegible]	0.901
7.65	400760	BB	0.49[illegible]	2.185
8.47	127000	BB	0.552	0.692
9.50	742620	BB	0.45[illegible]	4.048
10.77	1197300	BB	1.063	6.527
12.39	159430	BB	0.58[illegible]	0.869
13.08	264290	BB	0.38[illegible]	1.441
13.98	1356900	BB	0.53[illegible]	7.397
15.27	330200	BB	0.46[illegible]	1.800
16.63	1907400	BB	1.04[illegible]	10.398
18.07	43157	BB	0.359	0.235
18.74	126800	BB	0.49[illegible]	0.691
20.51	254620	BB	0.59[illegible]	1.388
22.32	475350	BB	0.93[illegible]	2.591
23.23	248130	BB	0.543	1.353
25.63	4436700	BB	0.91[illegible]	24.186
28.05	470860	BB	1.056	2.567
30.63	255910	BB	1.23[illegible]	1.395

TOXAPHENE

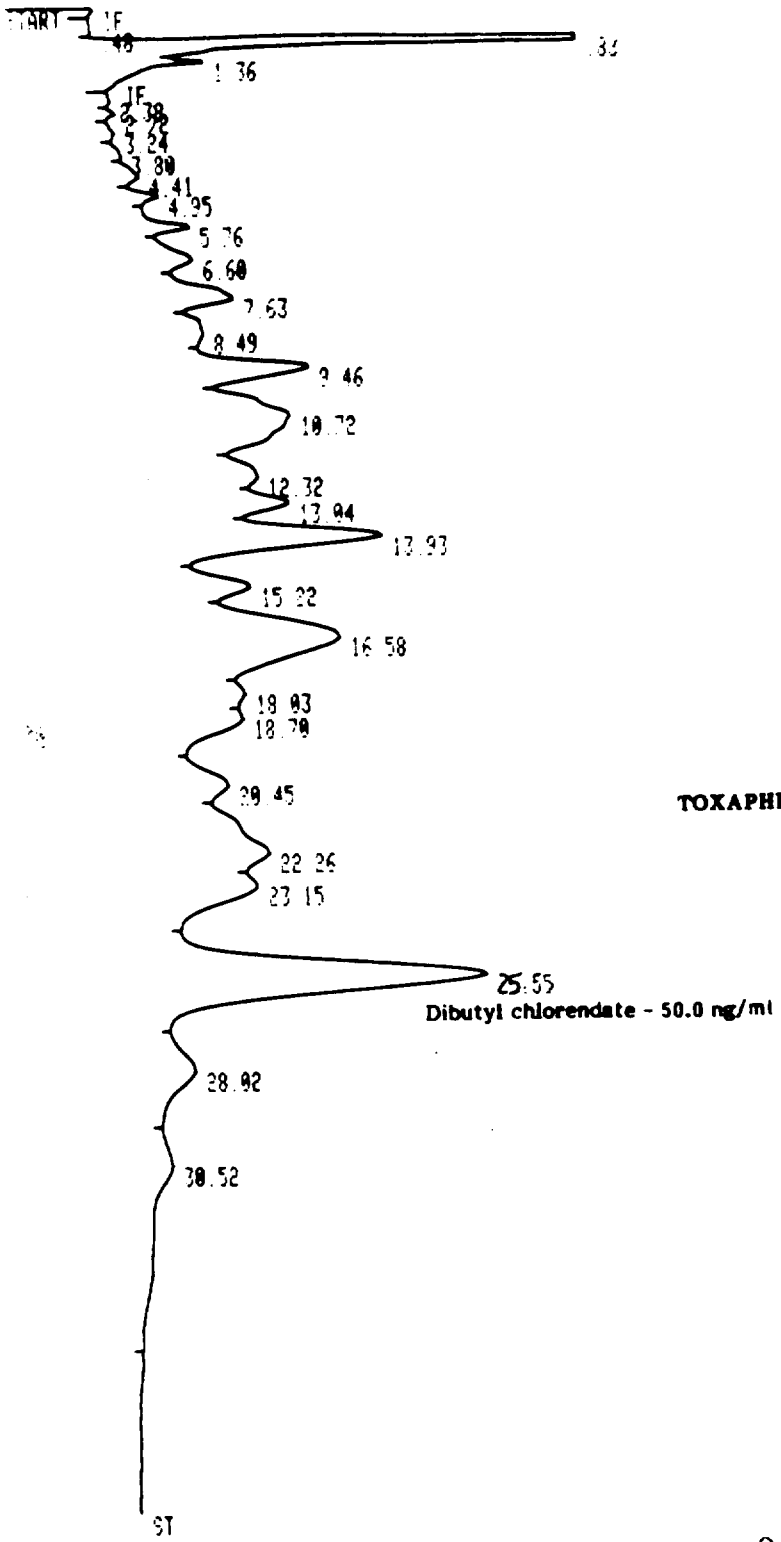
TOTAL AREA= 1.8344E+07
MUL FACTOR= 1.0000E+00

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator **COLUMN & PACKING:** 1.5 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; **CONDITIONS:** Injector at 200C; column at 220C (isothermal); detector at 300C; **VOLUME INJECTED:** 1.0 microliter

Lab No:

TOXAPHENE - 500.0 ng/ml



RUN # 252 SEP/29/86 12:55:00
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 11

AREA%

RT	AREA	TYPE	AR/H	AREA%
0.48	7488	BB	0.31[illegible]	0.043
0.83	5225300	SPB	0.11[illegible]	30.005
1.36	54964	I BB	0.08[illegible]	0.316
2.38	10869	BB	0.275	0.062
2.72	15510	BB	0.13[illegible]	0.089
3.24	18588	BB	0.244	0.107
3.80	4716	BB	0.23[illegible]	0.027
4.41	64685	BB	0.331	0.371
4.95	67848	BB	0.21[illegible]	0.390
5.76	112600	BB	0.20[illegible]	0.647
6.60	170290	BB	0.42[illegible]	0.978
7.63	377200	BB	0.480	2.166
8.49	108390	BB	0.63[illegible]	0.622
9.46	671150	BB	0.45[illegible]	3.854
10.72	1107800	BB	1.07[illegible]	6.361
12.32	141810	BB	0.55[illegible]	0.814
13.04	238010	BB	0.38[illegible]	1.367
13.93	1226500	BB	0.531	7.043
15.22	296790	BB	0.46[illegible]	1.704
16.58	1719900	BB	1.04[illegible]	9.876
18.03	39473	BB	0.35[illegible]	0.227
18.70	111130	BB	0.45[illegible]	0.638
20.45	226280	BB	0.59[illegible]	1.299
22.26	434400	BB	0.91[illegible]	2.495
23.15	209900	BB	0.53[illegible]	1.205
25.55	4071000	BB	0.91[illegible]	23.377
28.02	429360	BB	1.04[illegible]	2.466
30.52	252770	BB	1.27[illegible]	1.452

TOXAPHENE

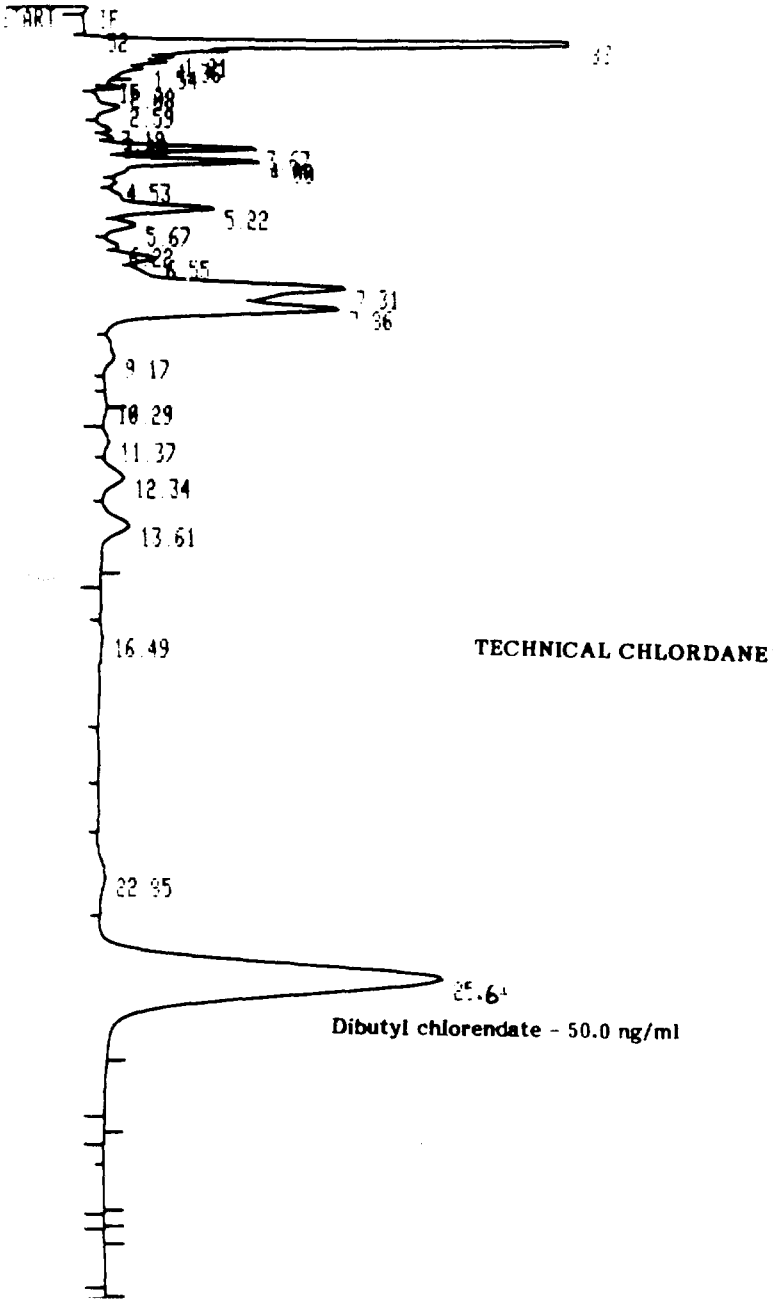
TOTAL AREA= 1.[illegible]415E+07
MUL FACTOR= 1.0000E+00

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN & PACKING: [illegible] m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Lab No:

TECHNICAL CHLORDANE - 75.0 ng/ml



TECHNICAL CHLORDANE

RUN # 132 SEP/23/86 16:4[illegible]:12
WORKFILE ID: 0
WORKFILE NAME:
SAMPLE # 3

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.52	7010	BB	0.32[illegible]	0.066
0.83	3334600	BB	0.114	31.361
1.21	5301	D BB	0.06[illegible]	0.050
1.36	13993	D BB	0.078	0.132
1.54	5809	D BB	0.05[illegible]	0.055
2.08	14185	D BB	0.07[illegible]	0.133
2.59	93839	BB	0.25[illegible]	0.883
3.18	15407	BB	0.12[illegible]	0.145
3.40	7815	BB	0.09[illegible]	0.074
3.67	304980	BB	0.14[illegible]	2.868
4.00	364670	BB	0.17[illegible]	3.430
4.53	6932	BB	0.12[illegible]	0.065
5.22	333980	BB	0.23[illegible]	3.141
5.67	68286	BB	0.20[illegible]	0.642
6.22	10555	BB	0.13[illegible]	0.099
6.55	88243	BB	0.19[illegible]	0.830
7.31	465650	BB	0.23[illegible]	4.379
7.86	210800	BB	0.124	1.983
9.17	72260	BB	0.52[illegible]	0.680
10.29	2042	PB	0.18[illegible]	0.019
11.37	29005	BB	0.37[illegible]	0.273
12.34	140750	BB	0.47[illegible]	1.324
13.61	200690	BB	0.51[illegible]	1.888
16.49	29143	VB	0.751	0.274
22.85	77674	PB	0.81[illegible]	0.731
25.64	4729100	BB	0.968	44.4[illegible]

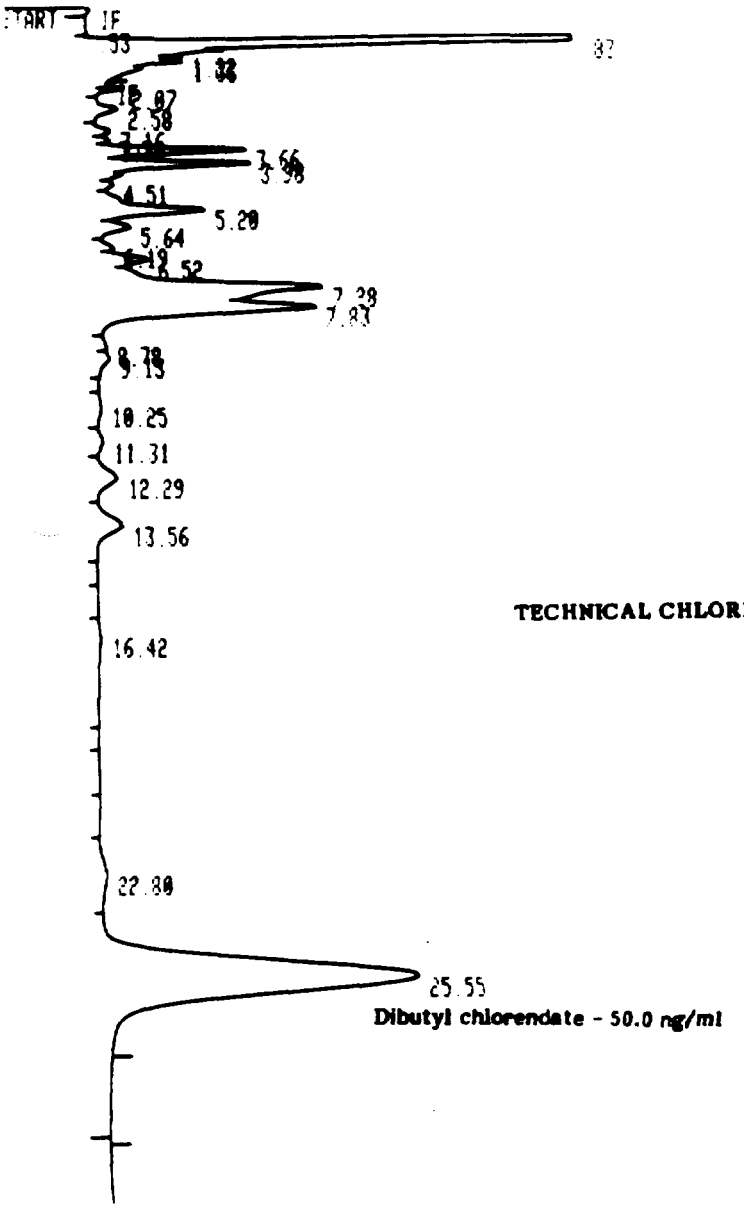
TOTAL AREA= 1.0633E+07
MUL FACTOR= 1.0000E+00

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator **COLUMN & PACKING:** [illegible] m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; **CONDITIONS:** Injector at 200C; column at 220C (isothermal); detector at 300C; **VOLUME INJECTED:** 1.0 microliter

Lab No:

TECHNICAL CHLORDANE - 75.0 ng/ml



TECHNICAL CHLORDANE

RUN # 253 SEP/29/86 13:36:47
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 13

AREA%

RT	AREA	TYPE	AR/H.	AREA%
0.53	7850	PB	0.31[illegible]	0.076
0.83	3631400	BB	0.114	35.234
1.22	5755 D	BB	0.06[illegible]	0.056
1.36	20537 D	BB	0.069	0.199
2.07	5985 D	BB	0.03[illegible]	0.058
2.58	66002	BB	0.21[illegible]	0.640
3.16	20092	BB	0.13[illegible]	0.195
3.39	6867	BB	0.09[illegible]	0.067
3.66	287350	BB	0.14[illegible]	2.788
3.98	294639	BB	0.15[illegible]	2.859
4.51	7820	PB	0.12[illegible]	0.076
5.20	329940	BB	0.24[illegible]	3.201
5.64	64532	BB	0.20[illegible]	0.626
6.19	10205	BB	0.13[illegible]	0.099
6.52	82187	BB	0.19[illegible]	0.797
7.28	438540	BB	0.241	4.255
7.83	176920	BB	0.11[illegible]	1.717
8.78	3992	BB	0.19[illegible]	0.039
9.13	21949	BB	0.28[illegible]	0.213
10.25	21101	VB	0.61[illegible]	0.205
11.31	25928	BB	0.37[illegible]	0.252
12.29	128279	BB	0.46[illegible]	1.245
13.56	182920	BB	0.51[illegible]	1.775
16.42	35005	VB	0.90[illegible]	0.340
22.80	73938	PB	0.82[illegible]	0.717
25.55	4356800	BB	0.965	42.272

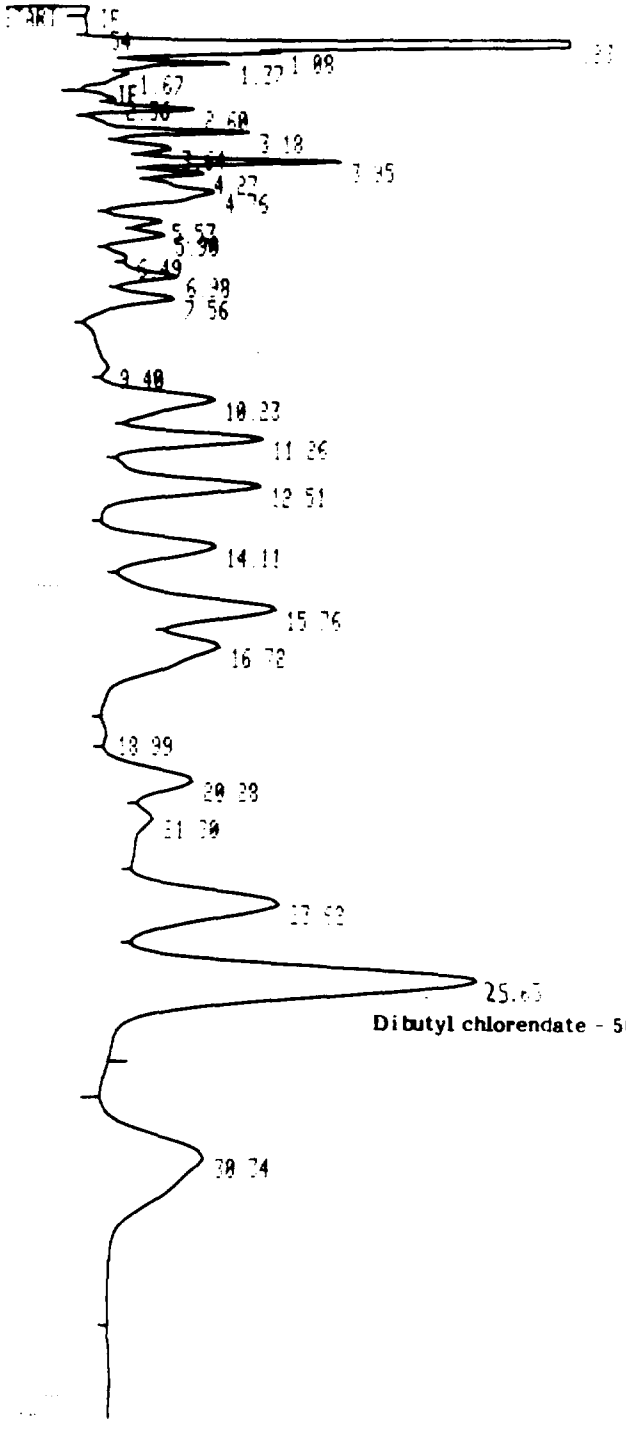
TOTAL AREA= 1.0307E+07
NUL FACTOR= 1.0000E+00

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN & PACKING: [illegible] m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Lab No:

AROCLOR-1016 - 75.0 ng/ml
AROCLOR-1260 - 150 ng/ml



Dibutyl chlorendate - 50.0 ng/ml

RUN # 133 SEP/23/86 17:34:[illegible]
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 5

AREA%

RT	AREA	TYPE	AR/H	AREA%
0.54	7767	BB	0.28[illegible]	0.02[illegible]
0.83	5771400	SPB	0.12[illegible]	24.180
1.08	37469	D BB	0.02[illegible]	0.157
1.22	186300	BB	0.12[illegible]	0.781
1.67	48370	I BB	0.30[illegible]	0.203
2.36	40768	PB	0.19[illegible]	0.171
2.60	198150	BB	0.14[illegible]	0.83[illegible]
3.18	328870	BB	0.161	1.378
3.64	114380	BB	0.20[illegible]	0.479
3.95	444320	BB	0.15[illegible]	1.862
4.27	116140	BB	0.14[illegible]	0.487
4.76	509630	BB	0.431	2.135
5.53	105930	BB	0.19[illegible]	0.444
5.90	133940	BB	0.231	0.561
6.49	19713	BB	0.18[illegible]	0.083
6.98	203320	BB	0.25[illegible]	0.852
7.56	311710	BB	0.32[illegible]	1.306
9.40	132300	BB	0.895	0.554
10.23	769510	BB	0.52[illegible]	3.224
11.26	794120	BB	0.392	3.327
12.51	1071200	BB	0.49[illegible]	4.488
14.11	920360	BB	0.60[illegible]	3.856
15.76	1074500	BB	0.59[illegible]	4.502
16.72	592510	BB	0.63[illegible]	2.482
18.99	24825	BB	0.41[illegible]	0.104
20.28	615700	BB	0.63[illegible]	2.580
21.30	129970	BB	0.58[illegible]	0.545
23.62	1765800	BB	0.83[illegible]	7.398
~~25.63~~	~~4689700~~	BB	0.92[illegible]	19.648
30.34	2709900	BB	1.85[illegible]	11.354

Aroclor-1016

Aroclor-1260

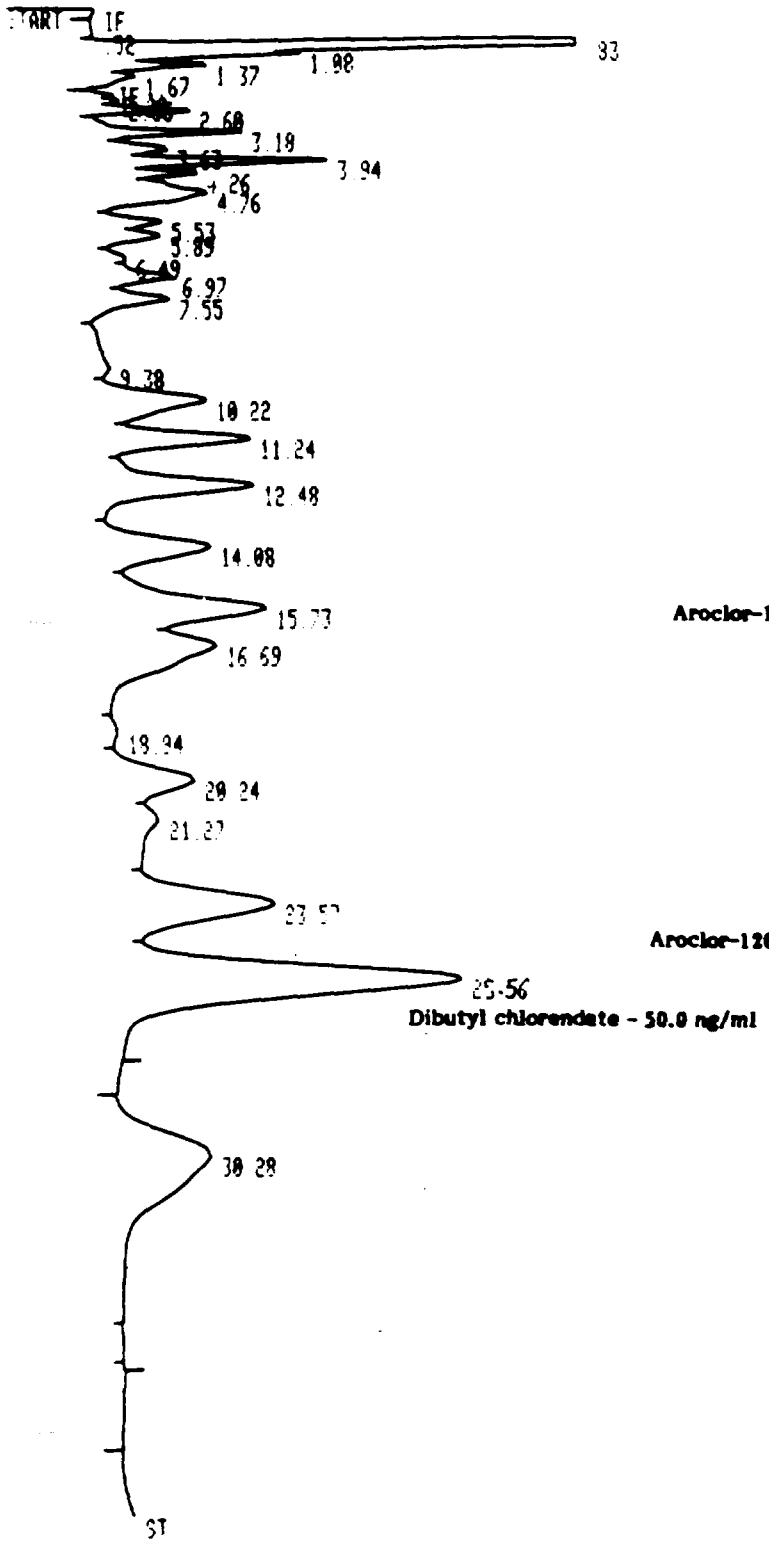
TOTAL AREA= 2.3868E+07
MUL FACTOR= 1.0000E+00

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN & PACKING: 6 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Lab No:

AROCLOR-1016 - 75.0 ng/ml
AROCLOR-1260 - 150 ng/ml



RUN # 254 SEP/29/86 14 18 32
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 15

AREA%

RT	AREA	TYPE	AR/H	AREA%
0.52	7728	BB	0.30	0.034
0.83	5994400	SPB	0.126	26.571
1.08	37828	D BB	0.06	0.168
1.37	140400	BB	0.142	0.622
1.67	71821	I BB	0.26	0.318
2.22	10196	PB	0.08	0.045
2.35	10104	D BB	0.08	0.045
2.60	180790	BB	0.142	0.801
3.18	302110	BB	0.15	1.339
3.63	100210	BB	0.201	0.444
3.94	420140	BB	0.15	1.862
4.26	107540	BB	0.144	0.477
4.76	467900	BB	0.42	2.074
5.53	106800	BB	0.198	0.473
5.89	117830	BB	0.22	0.522
6.49	18883	BB	0.194	0.084
6.97	186490	BB	0.25	0.827
7.55	262550	BB	0.31	1.164
9.38	94707	BB	0.76	0.420
10.22	702640	BB	0.527	3.115
11.24	724680	BB	0.39	3.212
12.48	1011700	BB	0.497	4.484
14.08	836470	BB	0.60	3.708
15.73	976920	BB	0.589	4.330
16.69	545550	BB	0.63	2.418
18.94	32093	BB	0.442	0.142
20.24	564630	BB	0.63	2.503
21.27	120260	BB	0.584	0.533
23.57	1598000	BB	0.83	7.083
~~25.56~~	~~4339600~~	BB	0.921	19.236
30.28	2469100	BB	1.85	10.945

Aroclor-1016

Aroclor-1260

TOTAL AREA= 2.2560E+07
MUL FACTOR= 1.0000E+00

2 2 0584 032-07

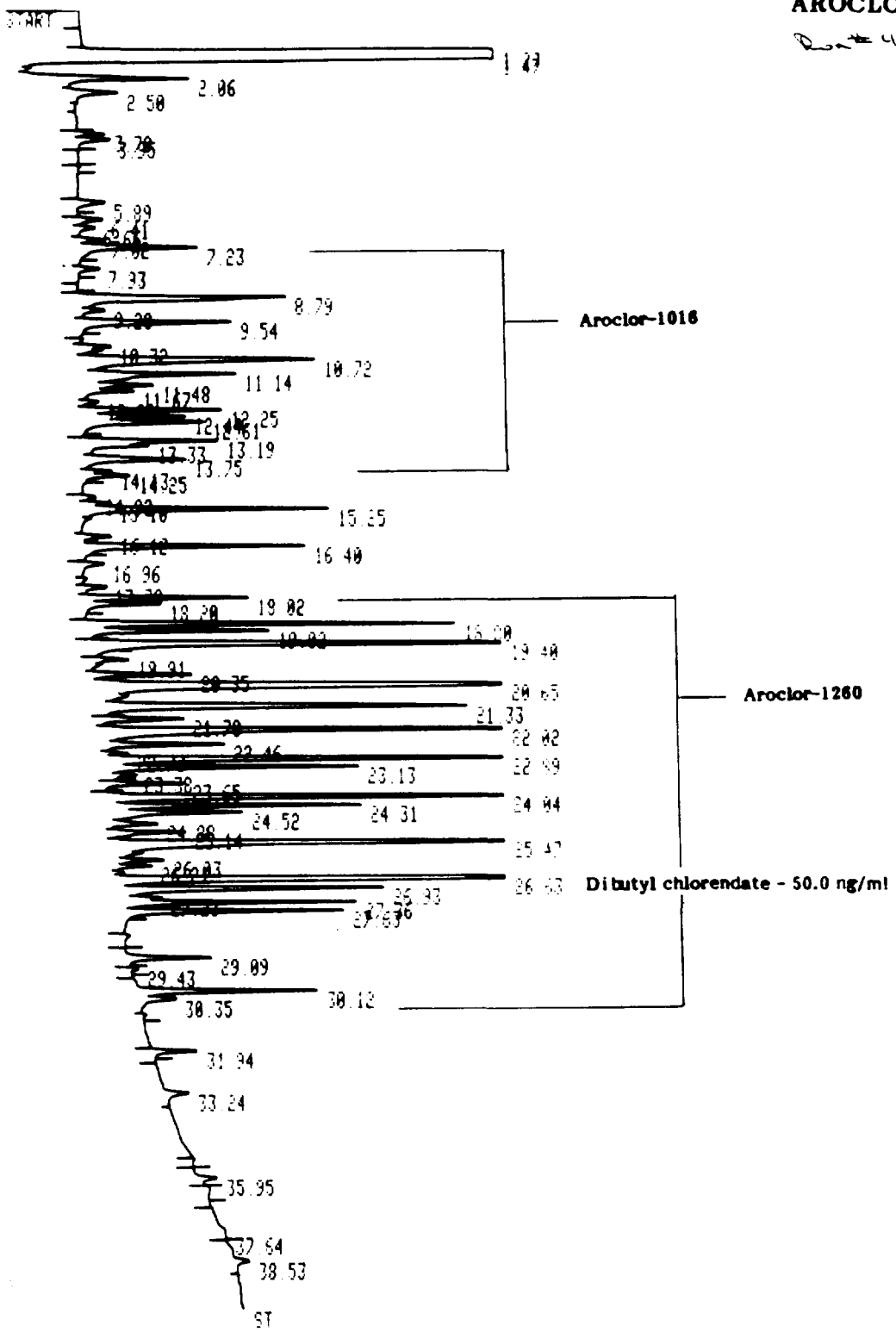
CAPILLARY COLUMN-CONFIRMATION

INSTRUMENT: H-P 5890A GC; H-P 7673A Autosampler; H-P 3392A Integrator. **COLUMN:** 30 m long x .25 mm ID fused silica capillary DB-5, 0.25 micrometer film thickness (J&W Scientific) ; helium carrier gas at 1.1 mL/min at 270C and 25 psi; splitless mode; septum purge at 5.5 mL/min; total flow at 27 mL/min; 5% methane/ 95% argon as make-up gas. **CONDITIONS:** Injector at 180C; column temperature programmed with an initial 2 min. hold at 160C and ramped at 3.5C/min to 270C, held for a final 6.5 minutes; detector at 300C. **VOLUME INJECTED:** 2.0 microliters.

Lab No:

AROCLOR-1016 - 75.0 ng/ml
AROCLOR-1260 - 150 ng/ml

Run # 462



RUN # 462 SEP/30/86 15:37:31
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 6

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.27	2249900	BV	0.159	28.201
1.47	300180 D	VP	0.065	3.763
2.06	96671	PV	0.147	1.212
2.50	78271	VV	0.254	0.981
3.78	10012	PV	0.085	0.126
3.95	17316	VB	0.124	0.217
5.89	14565	BB	0.121	0.183
6.41	11735	BV	0.112	0.147
6.66	8260	VP	0.115	0.104
7.02	10081	PV	0.101	0.126
7.23	67351	VB	0.137	0.844
7.93	8739	PB	0.097	0.110
8.79	136640	PV	0.157	1.713
9.20	14164	VV	0.131	0.178
9.54	74514	VB	0.118	0.934
10.32	12446	PV	0.093	0.156
10.72	169600	VV	0.172	2.126
11.14	100140	VV	0.154	1.255
11.48	37420	VV	0.125	0.469
11.67	26842	VV	0.124	0.337
12.02	6977	VV	0.100	0.088
12.25	55916	VV	0.096	0.701
12.44	42116	VV	0.099	0.528
12.61	67776	VB	0.135	0.850
13.19	60476	PV	0.108	0.758
13.33	33439	VV	0.124	0.419
13.75	57950	VV	0.138	0.726
14.13	9069	VV	0.080	0.114
14.25	18731	VB	0.102	0.235
14.92	6058	BV	0.103	0.076
15.10	12778	VV	0.103	0.160
15.25	111210	VV	0.108	1.394
16.12	10584	PV	0.089	0.133
16.40	94741	VB	0.104	1.188
16.96	10590	PP	0.120	0.133
17.70	10858	PV	0.106	0.136
18.02	61422	VV	0.090	0.770
18.20	35566	VB	0.113	0.446
18.80	139590	PV	0.090	1.750
19.02	79222	VB	0.105	0.993
19.40	307430	PB	0.096	3.854
19.91	11515	BV	0.085	0.144
20.35	37314	PV	0.090	0.468
20.65	406040	VV	0.133	5.090
21.33	200070	VB	0.132	2.508
21.70	32734	BP	0.101	0.410
22.02	264360	PV	0.123	3.314
22.46	47572	VP	0.096	0.596
22.73	5605	PV	0.068	0.070
22.89	222510	VV	0.091	2.789
23.13	94173	VV	0.092	1.180
23.38	6361	VB	0.076	0.080
23.65	25155	BB	0.084	0.315
24.04	201140	BV	0.098	2.521
24.31	99623	VV	0.094	1.249
24.52	75604	VV	0.135	0.948
24.88	22129	VV	0.112	0.277
25.14	32442	VV	0.106	0.407
25.47	340820	VV	0.107	4.272
26.03	19578	VV	0.100	0.245
26.21	12759	VP	0.090	0.160
26.63	616830	VV	0.086	7.732
26.93	130680	VV	0.119	1.638
27.27	16628	VV	0.104	0.208
27.76	92191	VV	0.096	1.156
27.63	92825	VB	0.103	1.164
29.09	33923	PB	0.098	0.425
29.43	2600	BB	0.078	0.033
30.12	80991	BV	0.106	1.015
30.75	27566	VV	0.168	0.346
31.94	16159	BB	0.088	0.203
32.24	11447	PB	0.115	0.144
35.95	6309	PB	0.091	0.079
37.54	3139	PB	0.222	0.039
38.53	11711	PB	0.186	0.147

Aroclor-1016

Aroclor-1260

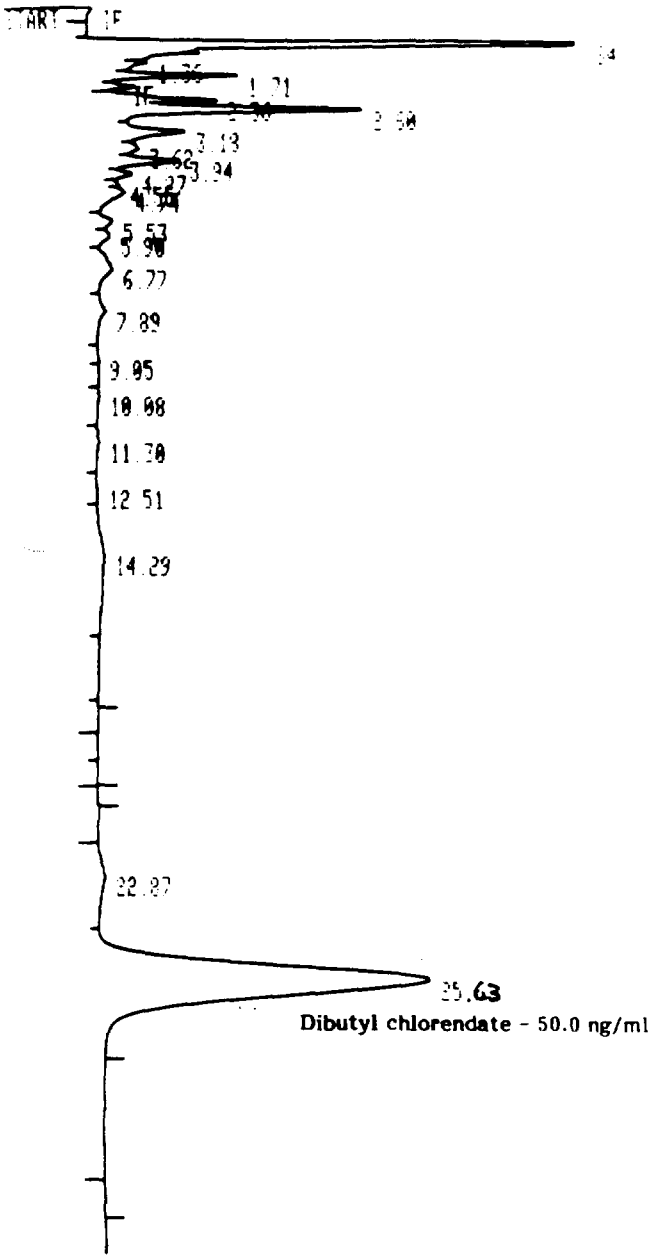
TOTAL AREA= 7977800
MUL FACTOR= 1.0000E+00

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN & PACKING: 5 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Lab No:

AROCLOR-1221 - 200 ng/ml



RUN # 134 SEP/23/86 19 06 46
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 7

AREA%

RT	AREA	TYPE	AR/H	AREA%
0.84	2007200	PB	0.11[illegible]	24.818
1.36	7531	D BB	0.074	0.093
1.71	172890	D BB	0.10[illegible]	2.137
2.36	127990	PB	0.12[illegible]	1.582
2.60	445490	BB	0.14[illegible]	5.507
3.18	143660	BB	0.17[illegible]	1.776
3.62	23687	BB	0.18[illegible]	0.293
3.94	125520	BB	0.15[illegible]	1.552
4.27	30938	BB	0.14[illegible]	0.382
4.55	2842	BB	0.106	0.035
4.74	30316	BB	0.23[illegible]	0.375
5.53	26579	BB	0.191	0.329
5.90	21364	BB	0.21[illegible]	0.264
6.77	99015	BB	0.51[illegible]	1.224
7.89	39940	BB	0.39[illegible]	0.494
9.05	1479	BB	0.19[illegible]	0.018
10.08	8991	VB	0.35[illegible]	0.111
11.30	16787	BB	0.45[illegible]	0.208
12.51	4547	BB	0.35[illegible]	0.056
14.29	156790	BB	1.732	1.938
22.87	84261	BB	0.84[illegible]	1.042
25.63	4511500	BB	0.954	55.768

Aroclor-1221

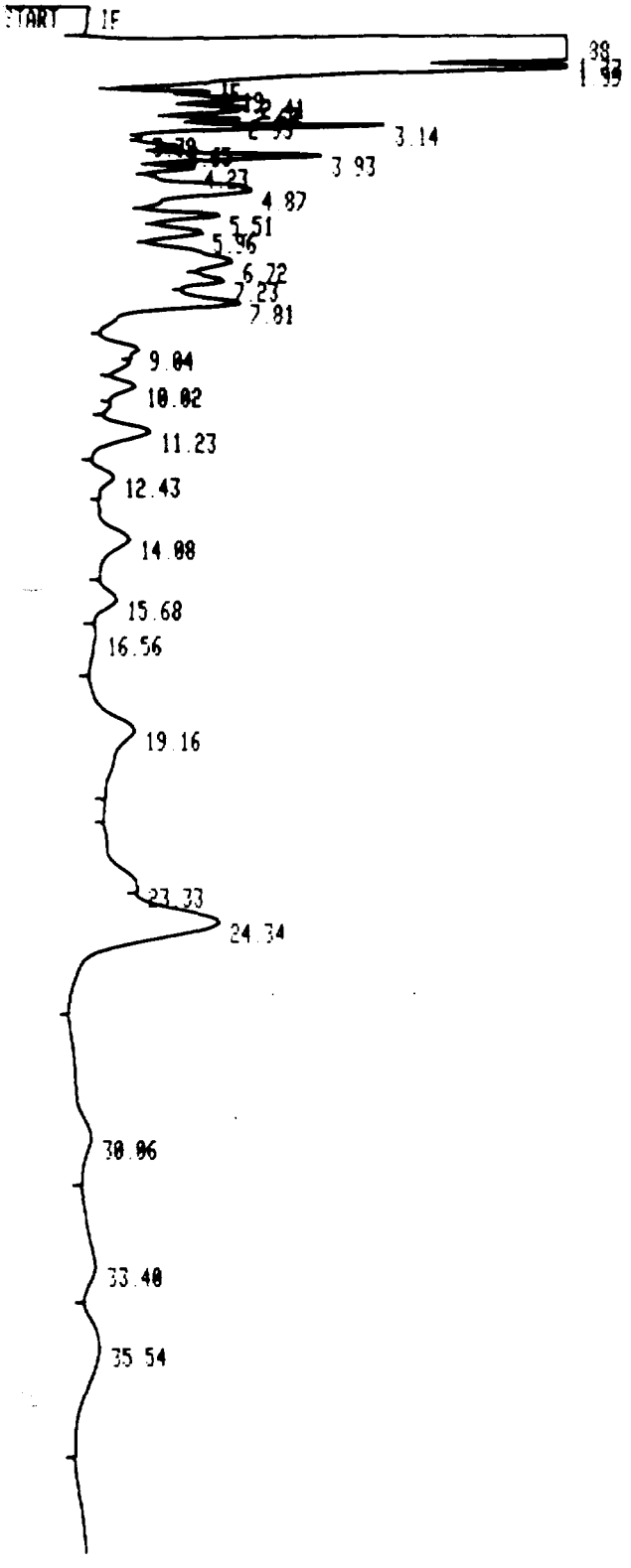
TOTAL AREA= 8089800
MUL FACTOR= 1.0000E+00

045-01

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator **COLUMN & PACKING:** .8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; **CONDITIONS:** Injector at 200C; column at 220C (isothermal); detector at 300C; **VOLUME INJECTED:** 1.0 microliter

Sample Description: 7334 (oil)
Lab No: 493439 MS (1/100 Dilution)



RUN # 263 SEP/29/86 21 29 15
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 19

AREA%

RT	AREA	TYPE	AR/H.	AREA%
0.88	9.3741E+07	↑SBB	0.19	90.966
1.37	365120	D BB	0.111	0.354
1.59	608020	I BB	0.16	0.590
2.19	72638	PB	0.09	0.071
2.41	121710	BB	0.12	0.118
2.63	193230	BB	0.200	0.188
2.93	80789	BB	0.09	0.078
3.14	400860	BB	0.129	0.389
3.39	1798	D BB	0.07	0.002
3.65	48731	BB	0.117	0.047
3.93	397750	BB	0.16	0.386
4.23	87964	BB	0.13	0.085
4.87	622490	BB	0.39	0.604
5.51	196510	BB	0.191	0.191
5.96	178010	BB	0.23	0.173
6.72	343990	BB	0.446	0.334
7.23	96766	BB	0.19	0.094
7.81	249640	BB	0.211	0.242
9.04	66117	BB	0.24	0.064
10.02	107450	PB	0.38	0.104
11.23	335130	PB	0.45	0.325
12.43	113080	BB	0.41	0.110
14.08	284090	BB	0.65	0.276
15.68	147470	BB	0.52	0.143
16.56	23159	BB	0.63	0.023
19.16	602390	BB	1.09	0.585
24.34	970270	BB	0.66	0.942
30.06	240380	BB	1.30	0.233
33.40	242480	BB	1.46	0.235
35.54	449150	BB	1.79	0.436
41.69	72548	BB	6.33	0.070
43.64	184400	BB	1.85	0.179
47.73	1004700	BB	3.61	0.975
56.68	400550	BB	2.73	0.389

TOTAL AREA= 1.0305E+08
MUL FACTOR= 1.0000E+00

2 2 0588

Laboratory Name Clayton

Client: Enviresponse

Sample Number 7346 MS

01-2-06

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date (Extracted) Prepared Sept, 18, 1986

Date Analyzed Sept, 24, 1986

Conc/(Dil) Factor: 4/10

Percent Moisture (decanted) ——

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☑Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		(ug/l) or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.17 U
319-85-7	Beta-BHC	0.17 U
319-86-8	Delta-BHC	0.17 U
58-89-9	Gamma-BHC (Lindane)	0.19 M
76-44-8	Heptachlor	0.14 M,A
309-00-2	Aldrin	0.12 M,A
1024-57-3	Heptachlor Epoxide	0.17 U
959-98-8	Endosulfan I	0.17 U
60-57-1	Dieldrin	0.43 M
72-55-9	4,4'-DDE	0.33 U
72-20-8	Endrin	0.44 M
33213-65-9	Endosulfan II	0.33 U
72-54-8	4,4'-DDD	0.33 U
1031-07-8	Endosulfan Sulfate	0.33 U
50-29-3	4,4'-DDT	0.66 M
72-43-5	Methoxychlor	1.7 U
53494-70-5	Endrin Ketone	0.33 U
57-74-9	Chlordane	1.7 U
8001-35-2	Toxaphene	3.3 U
12674-11-2	Aroclor-1016	1.7 U
11104-28-2	Aroclor-1221	1.7 U
11141-16-5	Aroclor-1232	1.7 U
53469-21-9	Aroclor-1242	1.7 U
12672-29-6	Aroclor-1248	1.7 U
11097-69-1	Aroclor-1254	3.3 U
11096-82-5	Aroclor-1260	3.3 U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

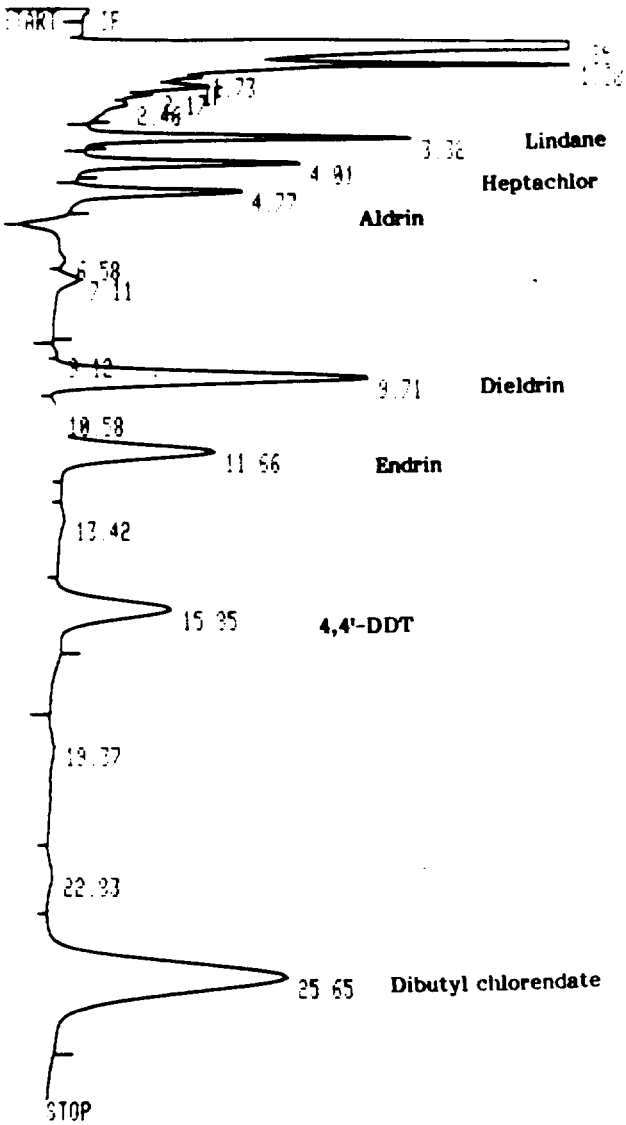
V_s 750 ml or W_s —— V_t 10,000 µl 25,000 µl due to 4/10 dil. V_i ___ µl

045-02

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN & PACKING: 1.8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Sample Description: 7346
Lab No: 493431 MS (4/10 Dilution)



RUN # 155 SEP/24/86 15:30:00
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 15

AREA%

	RT	AREA	TYPE	AR/H.	AREA%
	0.85	6032000	SPB	0.146	38.324
	1.38	600720	D BB	0.11[illegible]	3.817
	1.73	9674	D BB	0.05[illegible]	0.062
	2.17	8020	D BB	0.06[illegible]	0.051
	2.46	27898	BB	0.17[illegible]	0.177
	3.32	711260	PB	0.156	4.519
	4.01	543420	BB	0.17[illegible]	3.453
	4.77	496520	BB	0.20[illegible]	3.155
	6.58	282610	PB	1.456	1.796
	7.11	71531	BB	0.25[illegible]	0.455
	9.12	5066	PB	0.236	0.032
	9.71	1586400	BB	0.35[illegible]	10.079
	10.58	11981	BB	0.43[illegible]	0.076
	11.66	969240	BB	0.436	6.15[illegible]
	13.42	35802	VB	0.57[illegible]	0.22[illegible]
	15.85	941940	BB	0.58[illegible]	5.985
	19.37	81085	BB	1.27[illegible]	0.515
	22.83	57043	BB	0.79[illegible]	0.362
DBC	25.65	3267300	BB	0.96[illegible]	20.759

TOTAL AREA= .5740E+07
MUL FACTOR= .0000E+00

2 2 0590

013-04

Laboratory Name Clayton

Client: Envirosphere

Sample Number 7332

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared Sept, 18, 1986

Date Analyzed Sept, 23, 1986

Conc/Dil Factor 1

Percent Moisture (decanted) ——

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☑Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		(ug/l or ug/Kg) (Circle One)
319-84-6	Alpha-BHC	0.07 u
319-85-7	Beta-BHC	0.07 u
319-86-8	Delta-BHC	0.07 u
58-89-9	Gamma-BHC (Lindane)	0.07 u
76-44-8	Heptachlor	0.07 u
309-00-2	Aldrin	0.07 u
1024-57-3	Heptachlor Epoxide	0.07 u
959-98-8	Endosulfan I	0.07 u
60-57-1	Dieldrin	0.13 u
72-55-9	4,4'-DDE	0.13 u
72-20-8	Endrin	0.13 u
33213-65-9	Endosulfan II	0.13 u
72-54-8	4,4'-DDD	0.13 u
1031-07-8	Endosulfan Sulfate	0.13 u
50-29-3	4,4'-DDT	0.13 u
72-43-5	Methoxychlor	0.67 u
53494-70-5	Endrin Ketone	0.13 u
57-74-9	Chlordane	0.67 u
8001-35-2	Toxaphene	1.3 u
12674-11-2	Aroclor-1016	0.67 u
11104-28-2	Aroclor-1221	0.67 u
11141-16-5	Aroclor-1232	0.67 u
53469-21-9	Aroclor-1242	0.67 u
12672-29-6	Aroclor-1248	0.67 u
11097-69-1	Aroclor-1254	1.3 u
11096-82-5	Aroclor-1260	1.3 u

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 750 ml or W_s —— V_t 10,000 µl V_i 1 µl

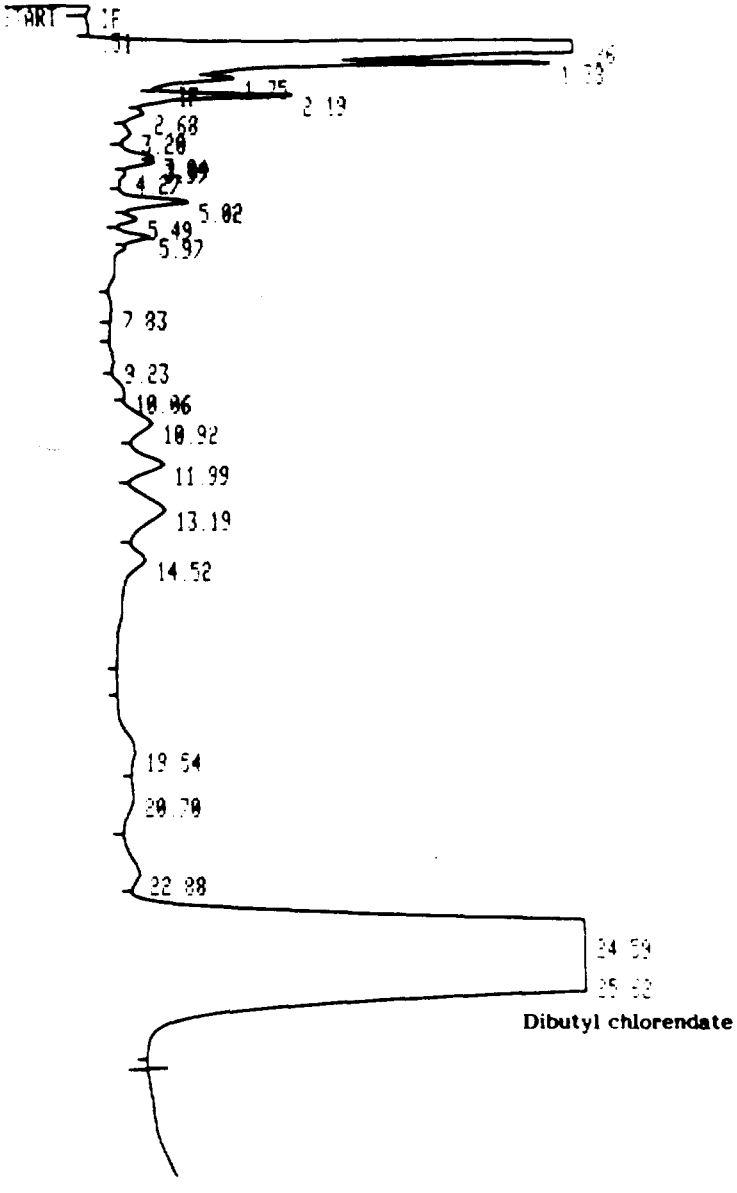
RH 9, 30, 1986

10-1-86

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator **COLUMN & PACKING:** 8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; **CONDITIONS:** Injector at 200C; column at 220C (isothermal); detector at 300C; **VOLUME INJECTED:** 1.0 microliter

Sample Description : 7332
Lab No: 493428



RUN # 140 SEP/23/86 23 38 16
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 19

AREA%

RT	AREA	TYPE	AR/H.	AREA%
0.51	7287	BB	0.34.	0.019
0.86	8955200	SPB	0.155	23.815
1.38	231330	D BB	0.06.	0.615
1.75	72632	I BB	0.130	0.193
2.19	310520	BB	0.15.	0.826
2.68	26985	BB	0.18.	0.072
3.20	30588	BB	0.27.	0.081
3.97	12227	D BB	0.098	0.033
4.27	1262	D BB	0.04.	0.003
5.02	212440	BB	0.224	0.565
5.49	40930	BB	0.18.	0.109
5.97	82034	BB	0.20.	0.218
7.83	15481	PB	0.39.	0.041
9.23	16227	PB	0.356	0.043
10.06	20434	BB	0.31.	0.054
10.92	181970	BB	0.51.	0.484
11.99	223190	BB	0.47.	0.594
13.19	360930	BB	0.726	0.960
14.52	64475	BB	0.27.	0.172
19.54	52289	PB	0.494	0.139
20.70	53736	BB	0.93.	0.143
22.88	98995	BB	0.67.	0.263
24.59	6087600	BB	0.69.	16.189
33.93	104950	BB	1.299	0.279
38.69	2390300	BB	1.89.	6.357
42.01	6633500	BB	2.186	17.641
47.09	3737600	BB	2.17.	9.939
51.35	5468400	BB	2.651	14.542
57.11	2110200	I BP	2.52.	5.612

TOTAL AREA= 3.7604E+07
MUL FACTOR= 1.0000E+00

2 2 0592

013-07

Laboratory Name Clayton

Client: Envirosphere

Sample Number 7332 Dup.

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared Sept, 18, 1986

Date Analyzed Sept, 24, 1986

Conc/Dil Factor 1

Percent Moisture (decanted) ——

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☑Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		(ug/l or ug/Kg) (Circle One)
319-84-6	Alpha-BHC	0.07 u
319-85-7	Beta-BHC	0.07 u
319-86-8	Delta-BHC	0.07 u
58-89-9	Gamma-BHC (Lindane)	0.07 u
76-44-8	Heptachlor	0.07 u
309-00-2	Aldrin	0.07 u
1024-57-3	Heptachlor Epoxide	0.07 u
959-98-8	Endosulfan I	0.07 u
60-57-1	Dieldrin	0.13 u
72-55-9	4,4'-DDE	0.13 u
72-20-8	Endrin	0.13 u
33213-65-9	Endosulfan II	0.13 u
72-54-8	4,4'-DDD	0.13 u
1031-07-8	Endosulfan Sulfate	0.13 u
50-29-3	4,4'-DDT	0.13 u
72-43-5	Methoxychlor	0.67 u
53494-70-5	Endrin Ketone	0.13 u
57-74-9	Chlordane	0.67 u
8001-35-2	Toxaphene	1.3 u
12674-11-2	Aroclor-1016	0.67 u
11104-28-2	Aroclor-1221	0.67 u
11141-16-5	Aroclor-1232	0.67 u
53469-21-9	Aroclor-1242	0.67 u
12672-29-6	Aroclor-1248	0.67 u
11097-69-1	Aroclor-1254	1.3 u
11096-82-5	Aroclor-1260	1.3 u

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 750ml or W_s —— V_t 10,000 µl V_i 1 µl

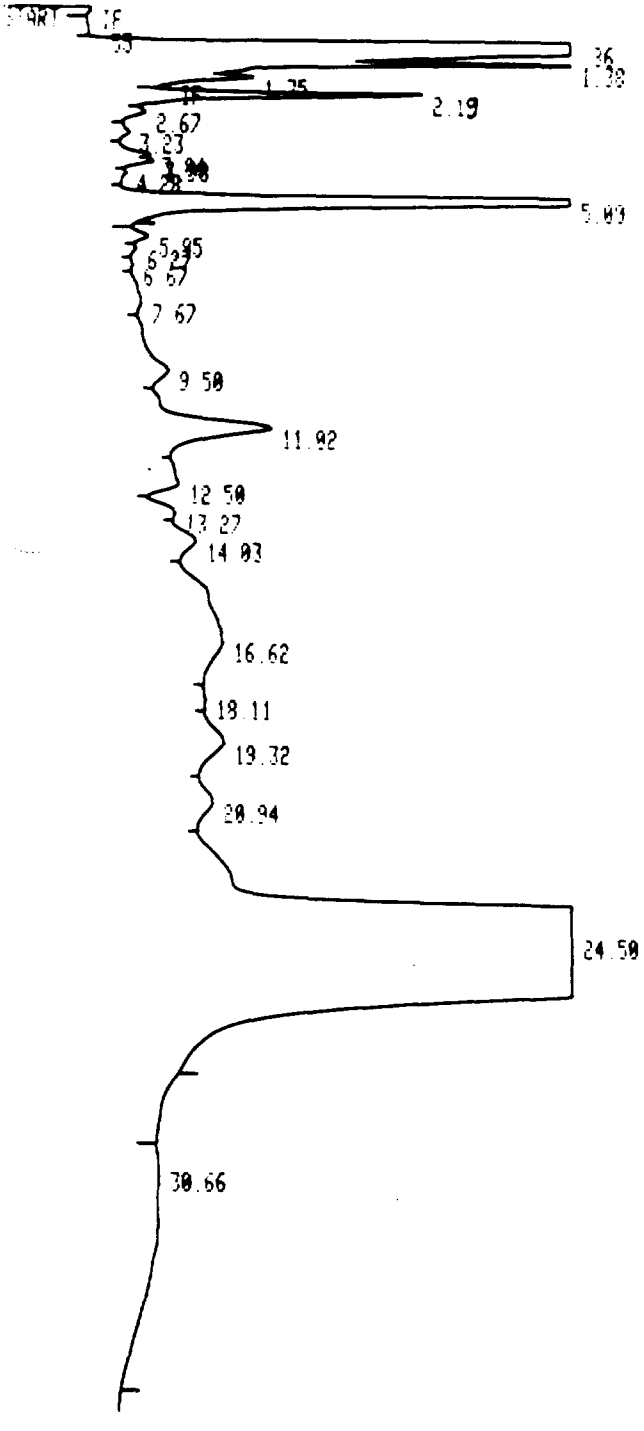
R.H 9,30,1986

10-1-86

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator **COLUMN & PACKING:** 1.8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; **CONDITIONS:** Injector at 200C; column at 220C (isothermal); detector at 300C; **VOLUME INJECTED:** 1.0 microliter

Sample Description: 7332
Lab No: 493428 Dup.



RUN # 153 SEP/24/86 13:56:25
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 11

AREA%

RT	AREA	TYPE	AR/H	AREA%
0.55	9796	PB	0.29[illegible]	0.012
0.86	7278400	SPB	0.161	9.529
1.38	268000	D BB	0.07[illegible]	0.316
1.75	90311	I BB	0.128	0.107
2.19	628740	BB	0.16[illegible]	0.742
2.67	31923	BB	0.183	0.038
3.23	28134	BB	0.23[illegible]	0.033
3.98	18016	D BB	0.107	0.021
4.28	3371	BB	0.09[illegible]	0.004
5.00	2978600	BB	0.257	3.515
5.95	43323	BB	0.20[illegible]	0.051
6.27	8012	BB	0.148	0.010
6.67	4487	BB	0.20[illegible]	0.005
7.67	61378	BB	0.628	0.072
9.50	174170	BB	0.61[illegible]	0.206
11.92	774720	BB	0.497	0.914
12.50	195490	BB	0.56[illegible]	0.231
13.27	55208	BB	0.374	0.065
14.03	41630	BB	0.50[illegible]	0.157
16.62	784740	BB	1.946	0.926
18.11	8056	BB	0.34[illegible]	0.010
19.32	256620	BB	0.796	0.303
20.94	43640	BB	0.66[illegible]	0.179
24.50	6.9[illegible]2E+07	BB	1.356	82.481
30.66	54300	BB	8.60[illegible]	0.002
39.06	94030	PB	1.553	0.111

TOTAL AREA= 1.4737E+07
MUL FACTOR= 1.0000E+00

2 2 0594

013-10

Laboratory Name Clayton

Client: Envirosphere

Sample Number 7333

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared Sept, 18, 1986

Date Analyzed Sept, 24, 1986

Conc/Dil Factor 1

Percent Moisture (decanted) ——

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☑Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		(ug/l) or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 u
319-85-7	Beta-BHC	0.05 u
319-86-8	Delta-BHC	0.05 u
58-89-9	Gamma-BHC (Lindane)	0.05 u
76-44-8	Heptachlor	0.05 u
309-00-2	Aldrin	0.05 u
1024-57-3	Heptachlor Epoxide	0.05 u
959-98-8	Endosulfan I	0.05 u
60-57-1	Dieldrin	0.10 u
72-55-9	4,4'-DDE	0.10 u
72-20-8	Endrin	0.10 u
33213-65-9	Endosulfan II	0.10 u
72-54-8	4,4'-DDD	0.10 u
1031-07-8	Endosulfan Sulfate	0.10 u
50-29-3	4,4'-DDT	0.10 u
72-43-5	Methoxychlor	0.5 u
53494-70-5	Endrin Ketone	0.10 u
57-74-9	Chlordane	0.5 u
8001-35-2	Toxaphene	1.0 u
12674-11-2	Aroclor-1016	0.5 u
11104-28-2	Aroclor-1221	0.5 u
11141-16-5	Aroclor-1232	0.5 u
53469-21-9	Aroclor-1242	0.5 u
12672-29-6	Aroclor-1248	0.5 u
11097-69-1	Aroclor-1254	1.0 u
11096-82-5	Aroclor-1260	1.0 u

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s —— V_t 10,000 ul V_i 1 ul

085

R.H 9,30,1986

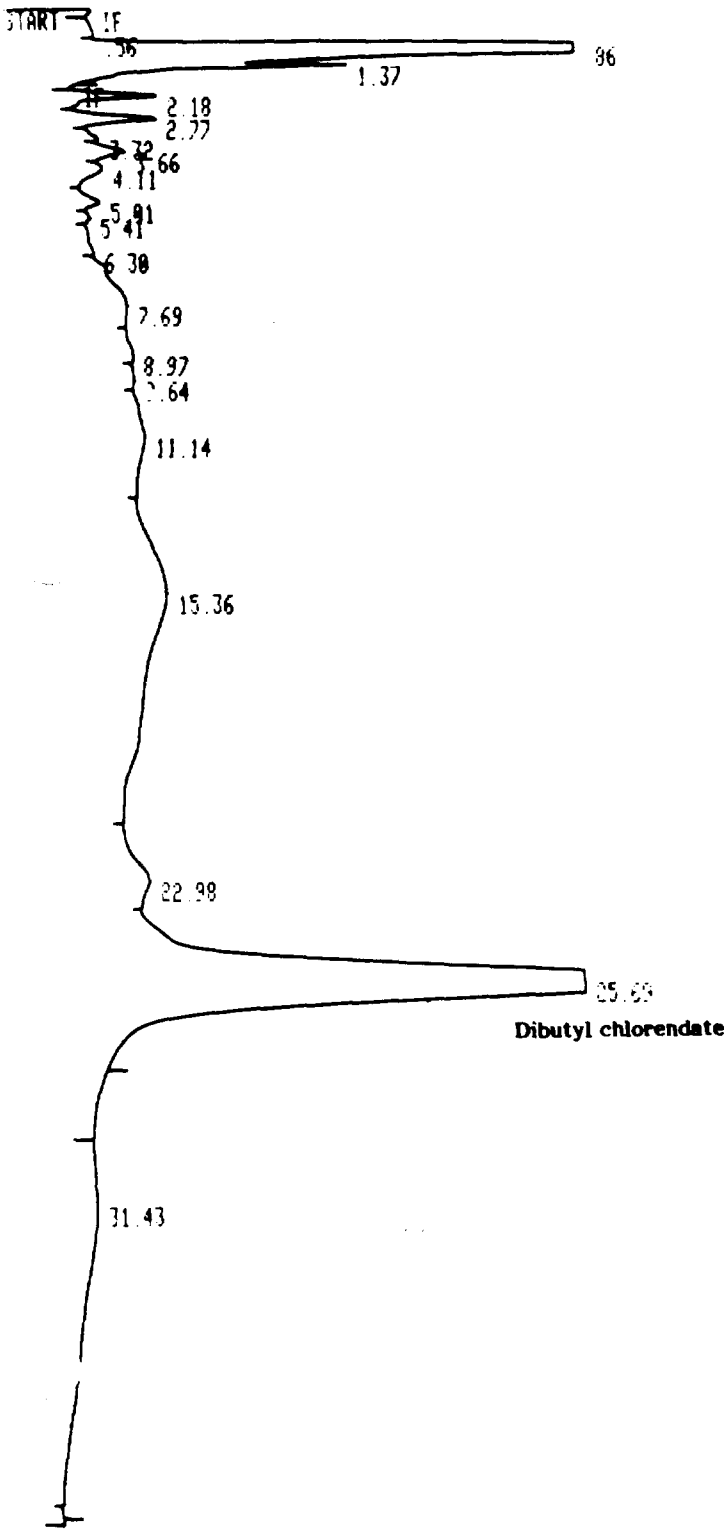
VJO. 10-1-86

017-03

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator **COLUMN & PACKING:** 8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; **CONDITIONS:** Injector at 200C; column at 220C (isothermal); detector at 300C; **VOLUME INJECTED:** 1.0 microliter

Sample Description: 7333
Lab No: 493429



Dibutyl chlorendate

RUN # 142 SEP/24/86 01:33:19
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 23

AREA%

RT	AREA	TYPE	HR/H.	AREA%
0.56	15896	PB	0.34[illegible]	0.072
0.86	9037600	SPB	0.15[illegible]	40.703
2.18	214890	BB	0.17[illegible]	0.968
2.77	234390	BB	0.20[illegible]	1.056
3.32	14157	BB	0.14[illegible]	0.064
3.66	96603	BB	0.234	0.435
4.11	45611	BB	0.29[illegible]	0.205
5.01	58944	BB	0.241	0.266
5.41	10135	BB	0.17[illegible]	0.046
6.30	3575	BB	0.147	0.016
7.69	163310	BB	1.06[illegible]	0.736
8.97	1187	BB	0.04[illegible]	0.005
9.64	8421	BB	0.32[illegible]	0.038
11.14	204590	BB	1.37[illegible]	0.921
15.36	1897100	BB	3.79[illegible]	8.544
22.98	159640	BB	0.771	0.719
DBC ~ 25.69	9162500	BB	1.02[illegible]	41.255
31.43	638310	BB	5.03[illegible]	2.875
42.40	111110	BB	2.45[illegible]	0.500
51.47	125910	PB	3.10[illegible]	0.567

TOTAL AREA= 2.2204E+07
MUL FACTOR= 1.0000E+00

Laboratory Name Clayton
Client: Envirosponse

Sample Number
7334

0134B

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)
Date (Extracted) Prepared 18 Sept. 1986
Date Analyzed 24-25 Sept. 1986
Conc/(Dil) Factor 1/50 + 1/100
Percent Moisture (decanted) ——

GPC Cleanup ☐Yes ☒~~No~~
Separatory Funnel Extraction ☒~~Yes~~
Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		(ug/l) or ug/Kg (Circle One)	
319-84-6	Alpha-BHC	<5.9 u	1/100
319-85-7	Beta-BHC	<5.9 u	
319-86-8	Delta-BHC	<5.9 u	
58-89-9	Gamma-BHC (Lindane)	<5.9 u	
76-44-8	Heptachlor	<5.9 u	
309-00-2	Aldrin	<5.9 u	
1024-57-3	Heptachlor Epoxide	<5.9 u	
959-98-8	Endosulfan I	<5.9 u	
60-57-1	Dieldrin	<5.9 u	1/50
72-55-9	4,4'-DDE	<5.9 u	
72-20-8	Endrin	<5.9 u	
33213-65-9	Endosulfan II	<5.9 u	
72-54-8	4,4'-DDD	<5.9 u	
1031-07-8	Endosulfan Sulfate	<5.9 u	
50-29-3	4,4'-DDT	<5.9 u	
72-43-5	Methoxychlor	<59. u	
53494-70-5	Endrin Ketone	<5.9 u	
57-74-9	Chlordane	<59. u	
8001-35-2	Toxaphene	<59. u	
12674-11-2	Aroclor-1016	<59. u	1/100
11104-28-2	Aroclor-1221	<59. u	
11141-16-5	Aroclor-1232	<59. u	
53469-21-9	Aroclor-1242	130	
12672-29-6	Aroclor-1248	<59. u	1/50
11097-69-1	Aroclor-1254	<59. u	
11096-82-5	Aroclor-1260	74	

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 850ml or W_s —— V_t 10000ml V_i 1.0ml

5000ml - 1/50 dil.
10000ml - 1/100 dil.

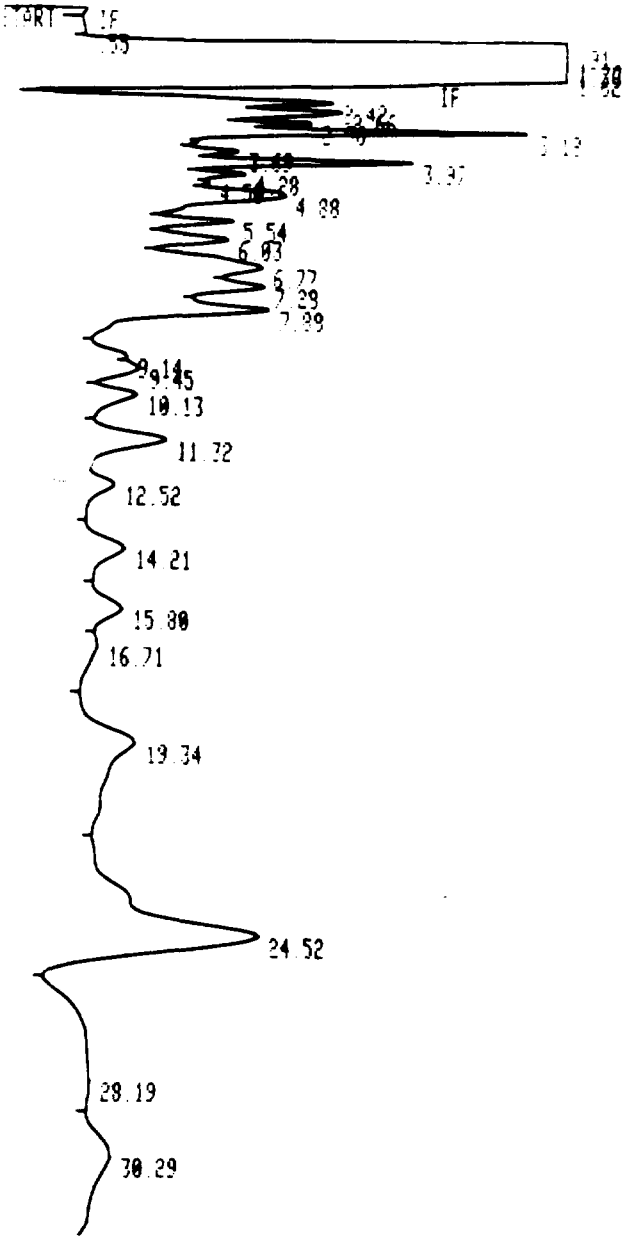
19-2-86

PACKED COLUMN-QUANTITATION

017-04

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator **COLUMN & PACKING:** 4 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; **CONDITIONS:** Injector at 200C; column at 220C (isothermal); detector at 300C; **VOLUME INJECTED:** 1.0 microliter

Sample Description: 7334
Lab No: 493430 (1/100 Dilution)



RUN # 156 SEP/24/86 16:01:11
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 17

AREA%

RT	AREA	TYPE	AR/H.	AREA%
0.55	6889	PB	0.306	0.007
0.91	8.3561E+07	↑SPB	0.178	81.330
1.28	20021	D BB	0.045	0.020
1.38	279290	D BB	0.085	0.272
1.62	1170300	I BB	0.20[illegible]	1.139
2.42	523990	PB	0.259	0.510
2.66	249930	BB	0.18[illegible]	0.243
2.96	82373	BB	0.095	0.080
3.18	557810	BB	0.13[illegible]	0.543
3.69	67602	PB	0.121	0.066
3.97	502590	BB	0.16[illegible]	0.489
4.28	86396	BB	0.135	0.084
4.50	6472	D BB	0.08[illegible]	0.006
4.88	521640	BB	0.362	0.508
5.54	197900	BB	0.185	0.193
6.03	257570	BB	0.249	0.251
6.77	409430	BB	0.44[illegible]	0.399
7.28	174030	BB	0.218	0.169
7.88	330780	BB	0.21[illegible]	0.322
9.14	3601	BB	0.058	0.004
9.45	114070	BB	0.332	0.111
10.13	236300	BB	0.402	0.230
11.32	504220	BB	0.47[illegible]	0.491
12.52	169000	BB	0.448	0.165
14.21	298390	BB	0.59[illegible]	0.290
15.80	224900	BB	0.545	0.219
16.71	64760	BB	0.691	0.063
19.34	961480	BB	1.315	0.936
24.52	3517000	BB	1.21[illegible]	3.423
28.19	758050	BB	3.916	0.738
30.29	2987700	BB	4.60[illegible]	2.908
37.04	819780	BB	2.838	0.798
38.96	39620	BB	1.052	0.039
48.81	679940	PB	4.148	0.662
50.84	916700	BB	2.467	0.892
56.58	1442000	BB	2.585	1.404

Aroclor 1242

Aroclor 1260

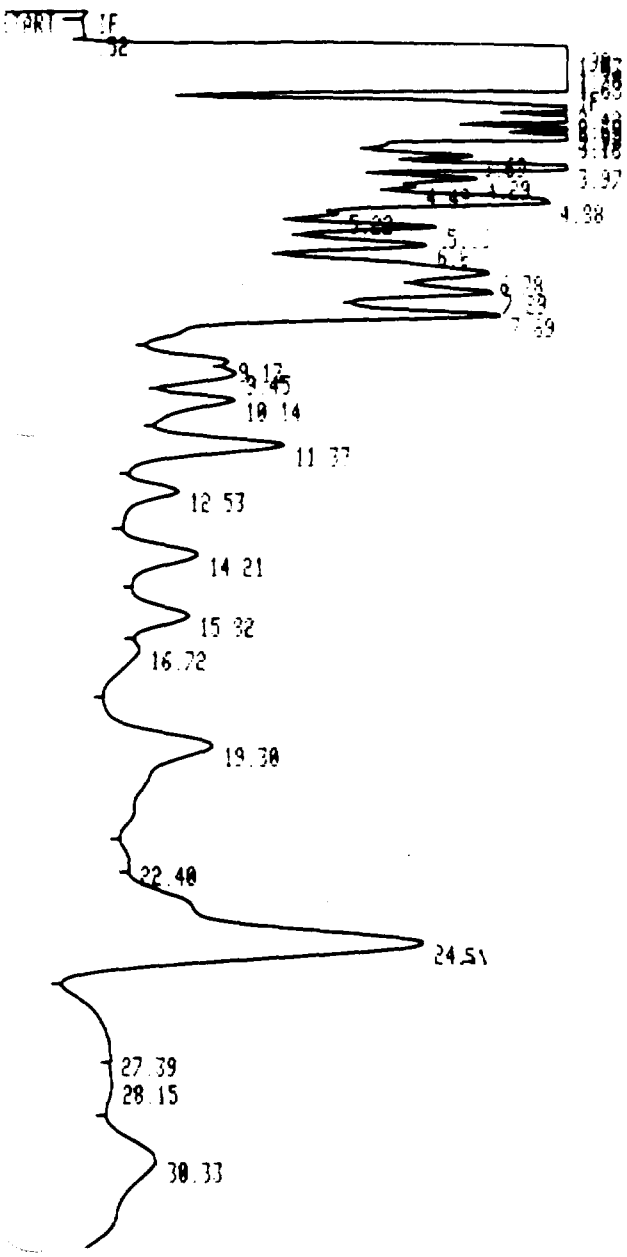
TOTAL AREA= 1.0274E+08
MUL FACTOR= 1.0000E+00

PACKED COLUMN-QUANTITATION

017-05

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator **COLUMN & PACKING:** 8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; **CONDITIONS:** Injector at 200C; column at 220C (isothermal); detector at 300C; **VOLUME INJECTED:** 1.0 microliter

Sample Description: 7334
Lab No: 493430 (1/50 Dilution)



RUN # 165 SEP/25/86 07:25:44
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 25

AREA%

RT	AREA	TYPE	AR/H.	AREA%
0.52	9535	BB	0.32[illegible]	0.036
1.38	500550	D BB	0.084	1.872
1.63	2382800	I BB	0.21[illegible]	8.911
2.42	867310	PB	0.24[illegible]	3.244
2.67	509470	BB	0.18[illegible]	1.905
2.97	148710	BB	0.09[illegible]	0.556
3.18	967590	BB	0.12[illegible]	7.619
3.69	137550	BB	0.121	0.514
3.97	961790	BB	0.16[illegible]	3.597
4.29	162810	BB	0.135	0.609
4.49	14305	D BB	0.10[illegible]	0.054
4.88	831370	BB	0.30[illegible]	3.109
5.22	25574	D BB	0.12[illegible]	0.096
5.56	382590	BB	0.190	1.431
6.04	477710	BB	0.24[illegible]	1.787
6.78	763450	BB	0.436	2.855
7.29	347960	BB	0.22[illegible]	1.301
7.89	581860	BB	0.197	2.176
9.13	52921	BB	0.16[illegible]	0.198
9.45	158270	BB	0.321	0.592
10.14	457080	BB	0.40[illegible]	1.709
11.33	935590	BB	0.465	3.499
12.53	338360	BB	0.45[illegible]	1.265
14.21	590280	BB	0.586	2.208
15.82	430890	BB	0.54[illegible]	1.611
16.72	113340	BB	0.664	0.424
19.30	1807600	BB	1.20[illegible]	6.760
22.40	22776	BB	0.54[illegible]	0.085
24.51	5243500	BB	1.07[illegible]	19.610
27.39	257060	BB	4.24[illegible]	0.961
28.15	38862	BB	0.87[illegible]	0.145
30.33	4103500	BB	3.685	15.346
37.08	997400	BB	2.65[illegible]	3.730
38.98	781270	BB	3.520	2.922
43.46	337560	BB	1.08[illegible]	1.262

Aroclor 1242

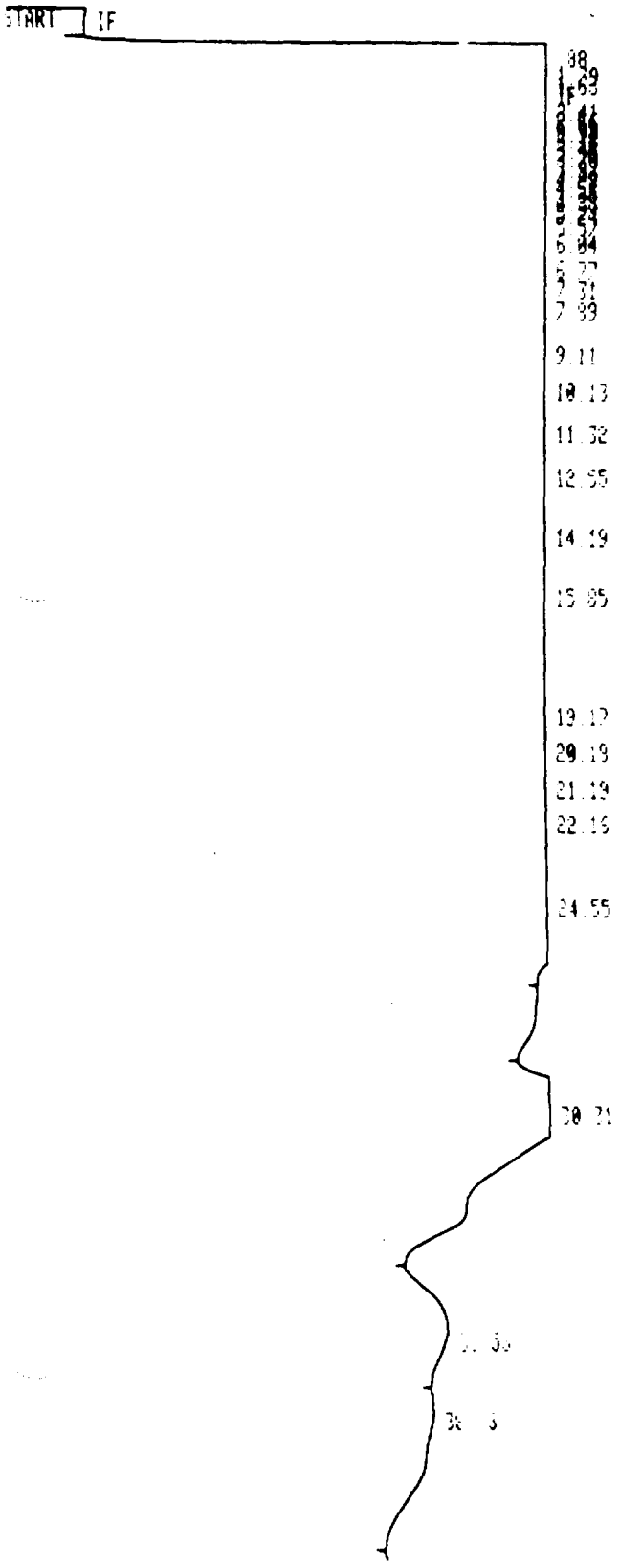
Aroclor 1260

TOTAL AREA= 2.6739E+07
MUL FACTOR= 1.0000E+00

PACKED COLUMN-QUANTITATION

017-06

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator **COLUMN & PACKING:** .8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; **CONDITIONS:** Injector at 200C; column at 220C (isothermal); detector at 300C; **VOLUME INJECTED:** 1.0 microliter



Sample Description: 7334
Lab No: 493430 (1/10 Dilution)

RUN # 167 SEP/25/86 09:09:59
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 27

AREA%

RT	AREA	TYPE	AR/H	AREA%
0.88	1.5024E+08	†SPB	0.33	68.553
1.39	1818300	D BB	0.087	0.830
1.63	6414500	I BB	0.22	2.927
2.41	3534900	PB	0.284	1.613
2.66	1941700	BB	0.19	0.886
2.97	481570	BB	0.091	0.220
3.18	3395200	BB	0.13	1.549
3.44	18176	BB	0.076	0.008
3.70	486440	BB	0.12	0.222
3.97	2996100	BB	0.16	1.367
4.28	561270	BB	0.12	0.256
4.54	84350	BB	0.092	0.039
4.88	3209400	BB	0.29	1.464
5.24	129920	D BB	0.121	0.059
5.57	1704500	BB	0.19	0.778
6.04	1437900	BB	0.235	0.656
6.77	2311300	BB	0.41	1.055
7.31	1411800	BB	0.245	0.644
7.89	1601800	BB	0.16	0.731
9.11	1052100	BB	0.276	0.480
10.13	2184000	PB	0.61	0.997
11.32	2622400	BB	0.438	1.197
12.55	1211300	BB	0.52	0.553
14.19	2210100	BB	0.577	1.008
15.85	3165000	BB	1.03	1.444
19.17	2964600	BB	0.681	1.353
20.18	55287	BB	0.53	0.025
21.19	68044	BB	0.475	0.031
22.16	135110	BB	0.58	0.062
24.55	1.2759E+07	BB	1.147	5.822
30.31	5405600	VB	2.03	2.467
36.53	815160	BB	1.890	0.372
38.73	586040	BB	4.23	0.267
42.36	147680	I BP	0.943	0.067

TOTAL AREA= 2.1916E+08
MUL FACTOR= 1.0000E+00

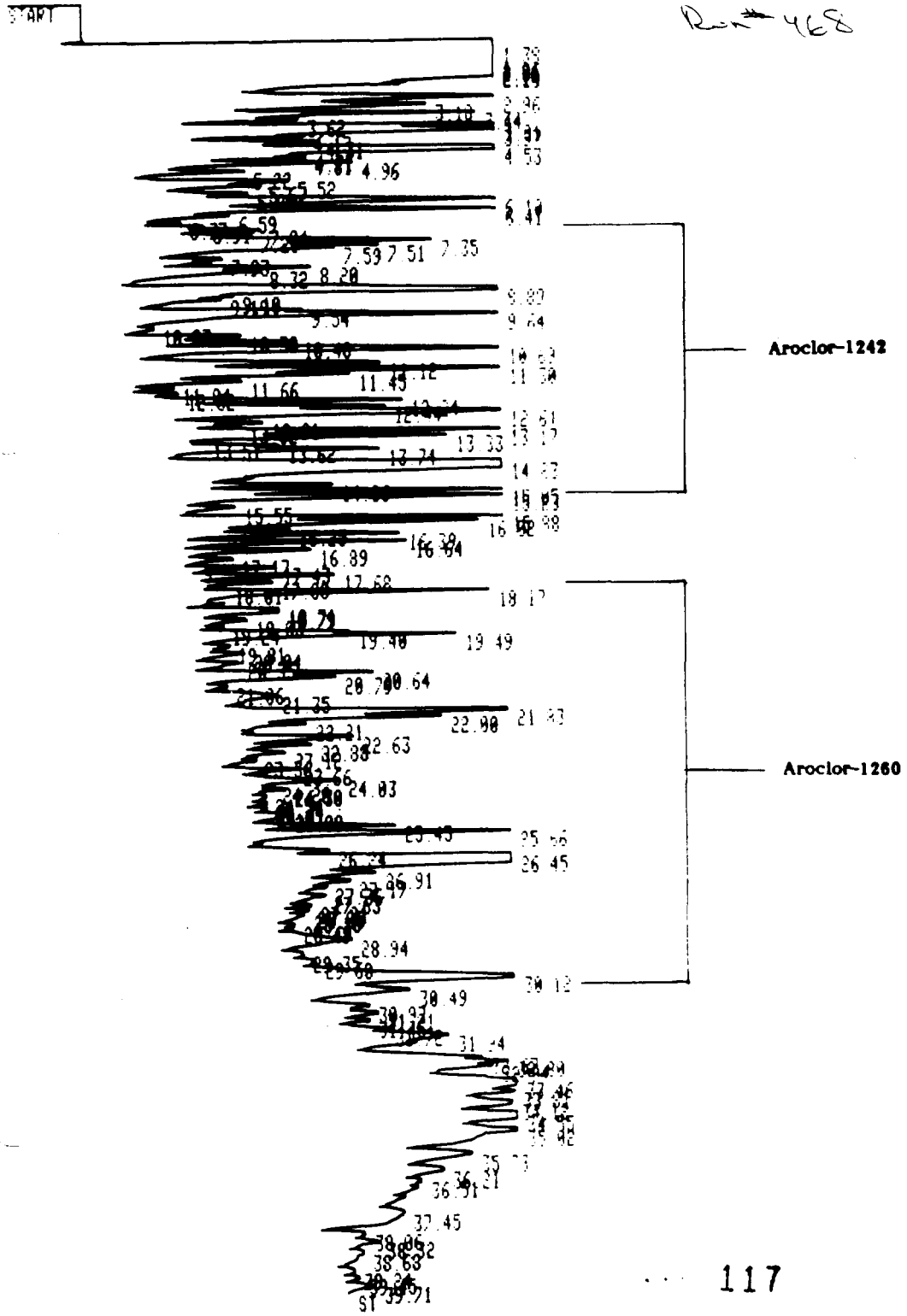
2 2 0600

017-07

CAPILLARY COLUMN-CONFIRMATION

INSTRUMENT: H-P 5890A GC; H-P 7673A Autosampler; H-P 3392A Integrator. **COLUMN:** 30 m long x .25 mm ID fused silica capillary DB-5, 0.25 micrometer film thickness (J&W Scientific) ; helium carrier gas at 1.1 mL/min at 270C and 25 psi; splitless mode; septum purge at 5.5 mL/min; total flow at 27 mL/min; 5% methane/ 95% argon as make-up gas. **CONDITIONS:** Injector at 180C; column temperature programmed with an initial 2 min. hold at 160C and ramped at 3.5C/min to 270C, held for a final 6.5 minutes; detector at 300C. **VOLUME INJECTED:** 2.0 microliters.

Sample Description: 7334
Lab No: 493430 (1/50 Dilution)
Run # 468



2 2 0601

017-08

Lab No: 493430 (1:50 Dilution)

RUN # 468 SEP/30/86 20:14:43
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 12

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.38	1.1415E+08	†SPB	0.229	65.594
1.96	865510	TBV	0.058	0.497
2.01	1572000	TVV	0.078	0.903
2.14	711020	TVV	0.063	0.409
2.20	930330	TVB	0.060	0.535
2.96	192640	BV	0.136	0.111
3.18	37901	VV	0.104	0.021
3.44	91005	VV	0.081	0.052
3.62	41354	VP	0.095	0.024
3.81	132040	PV	0.075	0.076
3.97	281910	VV	0.156	0.162
4.13	31411 D	VV	0.058	0.018
4.31	83111	VV	0.136	0.048
4.53	522020	VV	0.105	0.300
4.71	53250	VV	0.086	0.031
4.81	45199	VV	0.072	0.026
4.96	97975	VV	0.116	0.056
5.22	42778	VP	0.101	0.025
5.52	94103	PV	0.152	0.054
5.67	44085	VV	0.090	0.025
5.90	41848	VV	0.096	0.024
6.10	276500	VV	0.183	0.159
6.41	193450	VV	0.122	0.111
6.59	30510	VV	0.091	0.018
6.77	6669	VP	0.054	0.004
6.91	15199	PV	0.070	0.009
7.04	48412	VV	0.108	0.028
7.21	39647	VV	0.099	0.023
7.35	143500	VV	0.125	0.083
7.51	79285	VV	0.087	0.046
7.59	97109	VP	0.134	0.056
7.93	13496	PB	0.074	0.008
8.20	48915	BV	0.084	0.028
8.32	56190	VP	0.134	0.032
8.89	706240	PV	0.097	0.406
9.10	37791	VV	0.085	0.022
9.19	51177	VV	0.131	0.029
9.54	60201	VV	0.082	0.035
9.64	241310	VV	0.121	0.139
10.03	16714	VP	0.158	0.010
10.30	45864	PV	0.098	0.026
10.48	77681	VV	0.113	0.045
10.69	262790	VV	0.143	0.151
11.12	121320	VV	0.117	0.070
11.30	212710	VV	0.109	0.122
11.45	96630	VV	0.108	0.056
11.66	62187	VV	0.142	0.036
11.84	10809	VP	0.072	0.006
12.02	13905	PV	0.088	0.008
12.24	114950	VV	0.106	0.066
12.44	102400	VV	0.103	0.059
12.61	306620	VV	0.167	0.176
12.91	50762	VV	0.113	0.029
13.02	28841	VV	0.083	0.017
13.17	174410	VV	0.105	0.100
13.33	125630	VV	0.106	0.072
13.51	11566	VV	0.072	0.007
13.62	35142	VV	0.077	0.020
13.74	102100	VP	0.117	0.059
14.23	3.4639E+07	SPB	0.096	19.905
14.86	39498	TPV	0.081	0.023
15.05	117490	TVV	0.091	0.068
15.23	161810	TVP	0.111	0.093
15.55	18106	TPV	0.101	0.010
15.88	122200	TPV	0.086	0.070
16.02	156130	TVV	0.128	0.090
16.25	38441	TVV	0.091	0.022
17.17	17518	TVB	0.103	0.010
17.43	29927	BV	0.089	0.017
17.68	59293	VV	0.103	0.034
17.88	25993	VV	0.085	0.015
18.01	8739	VV	0.084	0.005
18.17	127500	VB	0.106	0.073
18.71	24914	BH	0.077	0.014
18.79	32403	HH	0.101	0.019
19.03	24436	HH	0.130	0.014
19.24	7722	HH	0.086	0.004
19.40	41829	HH	0.068	0.024
19.49	117840	HH	0.111	0.068
19.81	12788	HH	0.108	0.007
20.04	22525	HP	0.129	0.013
20.35	21616	PH	0.141	0.012
20.64	65404	HH	0.091	0.038
20.79	75473	HH	0.135	0.043
21.06	16070	HH	0.153	0.009
21.35	90864	HH	0.301	0.052
21.83	282160	HH	0.129	0.162
22.00	130890	HH	0.130	0.075
22.21	72483	HH	0.168	0.042
22.63	121100	HH	0.143	0.070
22.88	57457	HH	0.127	0.033
23.12	53960	HV	0.160	0.031
23.36	37115	VV	0.169	0.021
23.66	64724	VV	0.171	0.037
24.03	115910	VV	0.204	0.067
24.20	26853	VV	0.091	0.015
24.30	43248	VV	0.129	0.025
24.54	64104	VV	0.246	0.037
24.74	40298	VV	0.153	0.023
24.91	40198	VV	0.154	0.023
25.09	46612	VV	0.176	0.027
25.45	104600	VV	0.131	0.060
25.66	240100	VV	0.176	0.138
26.24	95192	VV	0.184	0.055
26.45	2593400	VV	0.152	1.490
26.91	129740	VV	0.183	0.075
27.17	127440	VV	0.211	0.073
27.36	119100	VV	0.219	0.068
27.67	125560	VV	0.253	0.072
27.91	57725	VV	0.132	0.033
28.05	50053	VV	0.118	0.029
28.18	1.0750	VV	0.274	0.064
28.49	44802	VV	0.127	0.026
28.94	260150	VV	0.472	0.150
29.35	99227	VV	0.226	0.057
29.60	116730	VV	0.262	0.067
30.12	537370	VV	0.308	0.309
30.49	194260	VV	0.375	0.111
30.97	136760	VV	0.205	0.079
31.21	153350	VV	0.218	0.088
31.45	118130	VV	0.177	0.068
31.72	144700	VV	0.196	0.083
31.94	302460	VV	0.303	0.174
32.67	276110	VV	0.243	0.159
32.80	188110	VV	0.151	0.108
32.94	323900	VV	0.273	0.186
33.46	638630	VV	0.472	0.367
33.81	278800	VV	0.214	0.160
34.12	432130	VV	0.390	0.247
34.55	593730	VV	0.387	0.341
35.02	829730	VV	0.569	0.477
35.77	465550	VV	0.428	0.268
36.21	347350	VV	0.359	0.200
36.51	184530	VV	0.212	0.106
37.45	438630	VV	0.616	0.251
38.06	161720	VV	0.258	0.093
38.32	210020	VV	0.309	0.121
38.68	313040	VV	0.506	0.180
39.24	153580	VV	0.265	0.088
39.45	132410	VV	0.222	0.076
39.71	232390 I	VH	0.350	0.134

Aroclor-1242

Aroclor-1260

Laboratory Name Clayton
Client: Envirosponse

Sample Number
7334 (oil)

013-16

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration Low Medium (Circle One)
Date Extracted/Prepared 25 Sept. 1986
Date Analyzed 29 Sept. 1986
Conc/Dil Factor ½ (GPC Effect) - 1/100 dil.
Percent Moisture (decanted) ——

GPC Cleanup ☒Yes ☐No
Separatory Funnel Extraction ☐Yes
Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	78 u
319-85-7	Beta-BHC	78 u
319-86-8	Delta-BHC	78 u
58-89-9	Gamma-BHC (Lindane)	78 u
76-44-8	Heptachlor	78 u
309-00-2	Aldrin	78 u
1024-57-3	Heptachlor Epoxide	78 u
959-98-8	Endosulfan I	78 u
60-57-1	Dieldrin	160 u
72-55-9	4, 4'-DDE	160 u
72-20-8	Endrin	160 u
33213-65-9	Endosulfan II	160 u
72-54-8	4, 4'-DDD	160 u
1031-07-8	Endosulfan Sulfate	160 u
50-29-3	4, 4'-DDT	160 u
72-43-5	Methoxychlor	780 u
53494-70-5	Endrin Ketone	160 u
57-74-9	Chlordane	780 u
8001-35-2	Toxaphene	1600 u
12674-11-2	Aroclor-1016	780 u
11104-28-2	Aroclor-1221	780 u
11141-16-5	Aroclor-1232	780 u
53469-21-9	Aroclor-1242	36000
12672-29-6	Aroclor-1248	780 u
11097-69-1	Aroclor-1254	1600 u
11096-82-5	Aroclor-1260	17000

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s —— or W_s 1.54 V_t 5000 ul V_i 1.0 ul
500000 ul - 1/100 dil.

T.O. 10-2-86

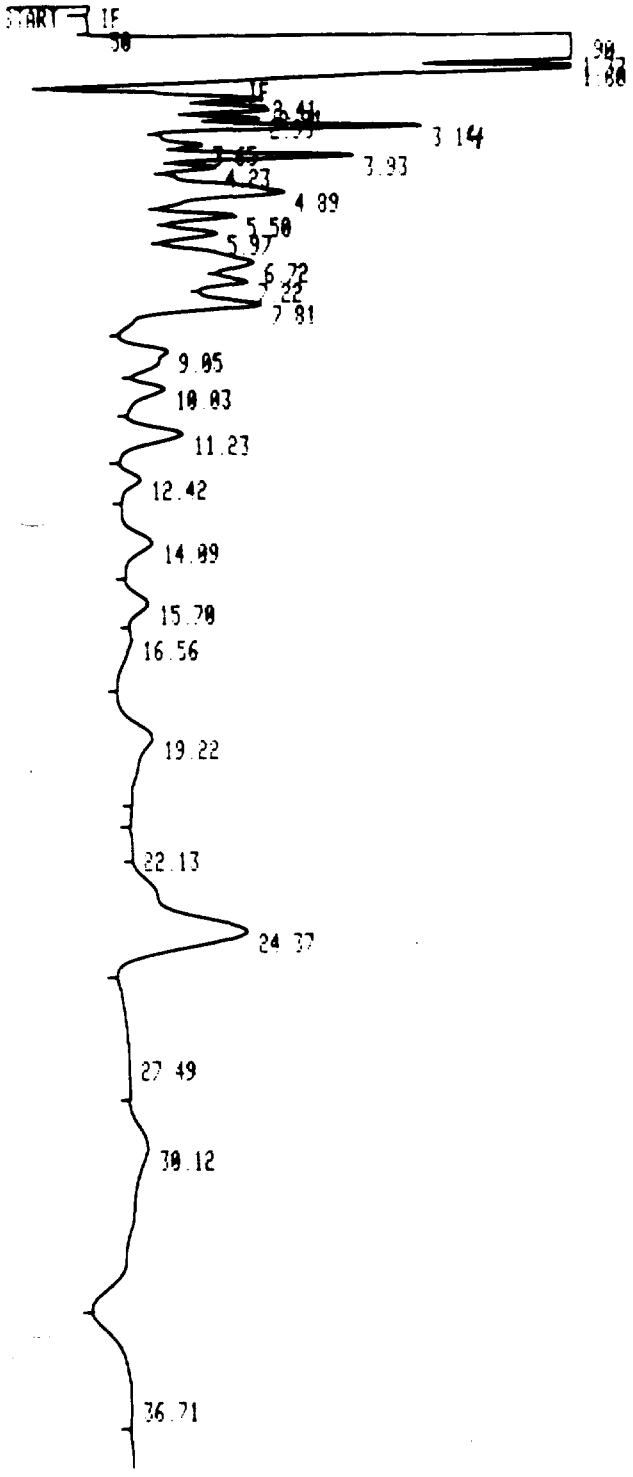
2 2 0603

017-09

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator **COLUMN & PACKING:** .8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; **CONDITIONS:** Injector at 200C; column at 220C (isothermal); detector at 300C; **VOLUME INJECTED:** 1.0 microliter

Sample Description : 7334 (oil)
Lab No: 493439 (1/100 Dilution)



RUN # 261 SEP/29/.. 19:24:23
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 15

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.50	4987	PB	0.31.	0.005
0.90	9.3112E+07	↑SPB	0.197	88.152
1.37	410940	D BB	0.12.	0.389
1.60	808750	I BB	0.194	0.766
2.41	353780	PB	0.24.	0.335
2.71	212500	BB	0.195	0.201
2.93	78671	BB	0.09.	0.075
3.14	436460	BB	0.136	0.413
3.65	59417	BB	0.12.	0.056
3.93	421970	BB	0.164	0.400
4.23	89138	BB	0.13.	0.084
4.89	706980	BB	0.395	0.669
5.50	202000	BB	0.18.	0.191
5.97	181670	BB	0.238	0.172
6.72	361600	BB	0.44.	0.342
7.22	108920	BB	0.195	0.103
7.81	273880	BB	0.22.	0.259
9.05	365430	BB	0.57.	0.346
10.03	198200	BB	0.39.	0.188
11.23	397910	BB	0.46.	0.377
12.42	120490	BB	0.41.	0.114
14.09	241630	BB	0.596	0.229
15.70	159870	BB	0.53.	0.151
16.56	42008	BB	0.664	0.040
19.22	432570	BB	1.03.	0.410
22.13	7709	PB	0.464	0.007
24.37	1957300	BB	1.08.	1.853
27.49	140980	BB	2.288	0.134
30.12	1602500	BB	4.00.	1.517
36.71	447590	BB	2.593	0.424
38.83	10730	BB	1.22.	0.010
39.95	82285	BB	2.293	0.078
48.69	470260	PB	3.76.	0.445
50.62	300180	BB	2.326	0.284
56.34	825650	BB	2.58.	0.782

Aroclor 1242

Aroclor 1260

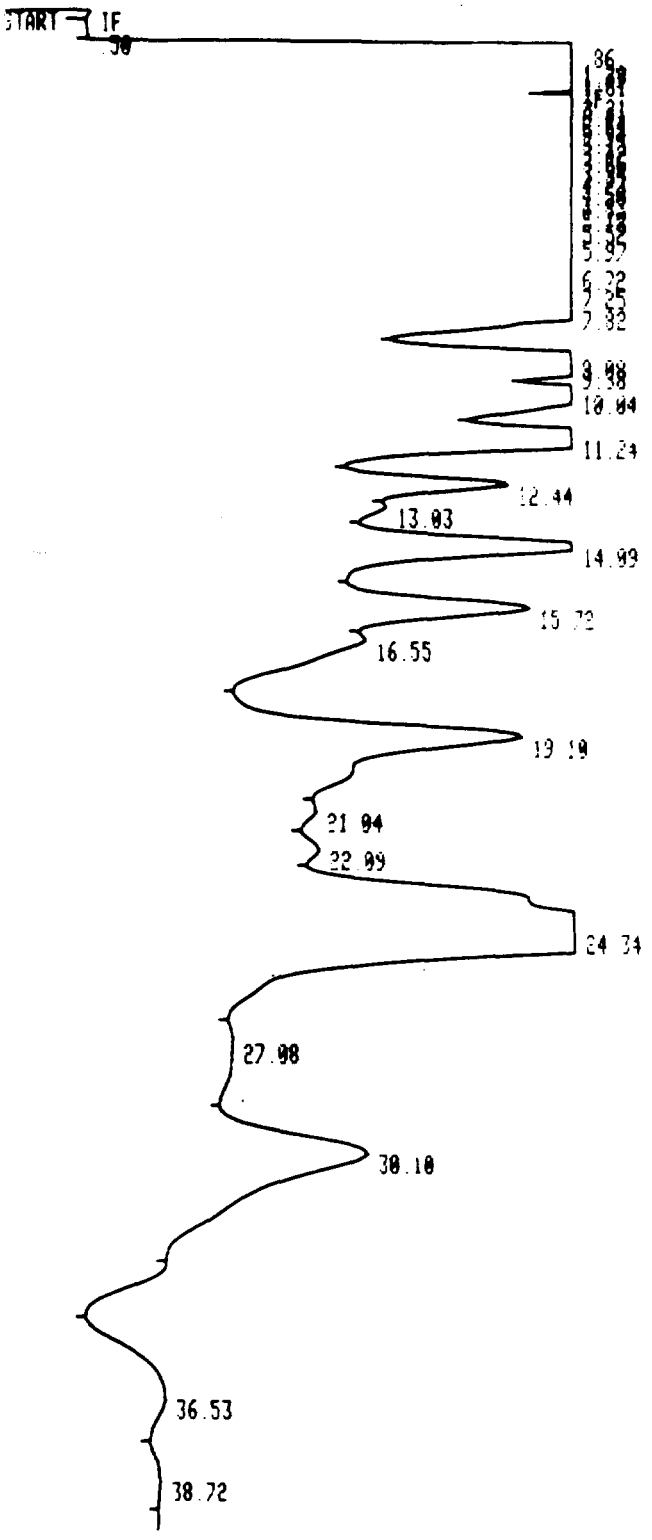
TOTAL AREA= 1.0563E+08
MUL FACTOR= 1.0000E+00

017-10

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7871A Autosampler; H-P 3392A Integrator **COLUMN & PACKING:** .8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; **CONDITIONS:** Injector at 200C; column at 220C (isothermal); detector at 300C; **VOLUME INJECTED:** 1.0 microliter

Sample Description: 7334 oil
Lab No: 493439 (1/10 dilution)



RUN # 268 SEP/30/8 02:36:51
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 29

AREA%

RT	AREA	TYPE	AR/H.	AREA%
0.50	7399	BB	0.32	0.003
0.86	1.5388E+08	↑SPB	0.338	70.930
1.28	247760	D BB	0.05	0.114
1.37	1057600	D BB	0.097	0.488
1.61	6222900	I BB	0.21	2.868
2.21	226060	PB	0.086	0.104
2.41	844900	BB	0.13	0.389
2.64	1506400	BB	0.192	0.694
2.94	474070	BB	0.09	0.219
3.15	2848400	BB	0.131	1.313
3.42	13588	BB	0.08	0.006
3.66	501220	BB	0.122	0.231
3.94	3009100	BB	0.16	1.387
4.23	576290	BB	0.128	0.266
4.50	68313	BB	0.09	0.032
4.83	2754600	BB	0.302	1.270
5.18	110580	D BB	0.12	0.051
5.52	1619300	BB	0.19	0.746
5.97	1340400	BB	0.23	0.618
6.72	2642500	BB	0.422	1.218
7.25	1067200	BB	0.21	0.492
7.82	1956500	BB	0.196	0.902
9.08	36531	BB	0.09	0.017
9.38	460870	BB	0.308	0.212
10.04	1593800	BB	0.42	0.735
11.24	2960700	BB	0.459	1.365
12.44	819740	BB	0.393	0.378
13.03	38123	BB	0.298	0.018
14.09	1981500	BB	0.56	0.913
15.72	1371200	BB	0.547	0.632
16.55	225600	BB	0.66	0.104
19.10	3388100	BB	0.932	1.562
21.04	43288	BB	0.41	0.020
22.09	103080	BB	0.491	0.048
24.34	1.2643E+07	BB	1.195	5.828
27.08	170550	BB	1.642	0.079
30.10	3727400	BB	1.56	1.718
36.53	1076500	PB	2.033	0.496
38.72	74670	BB	0.97	0.034
43.09	369720	VB	1.183	0.170
48.19	1046300	BB	2.17	0.482
50.46	562480	BB	1.776	0.259
56.08	1279200	BB	2.34	0.590

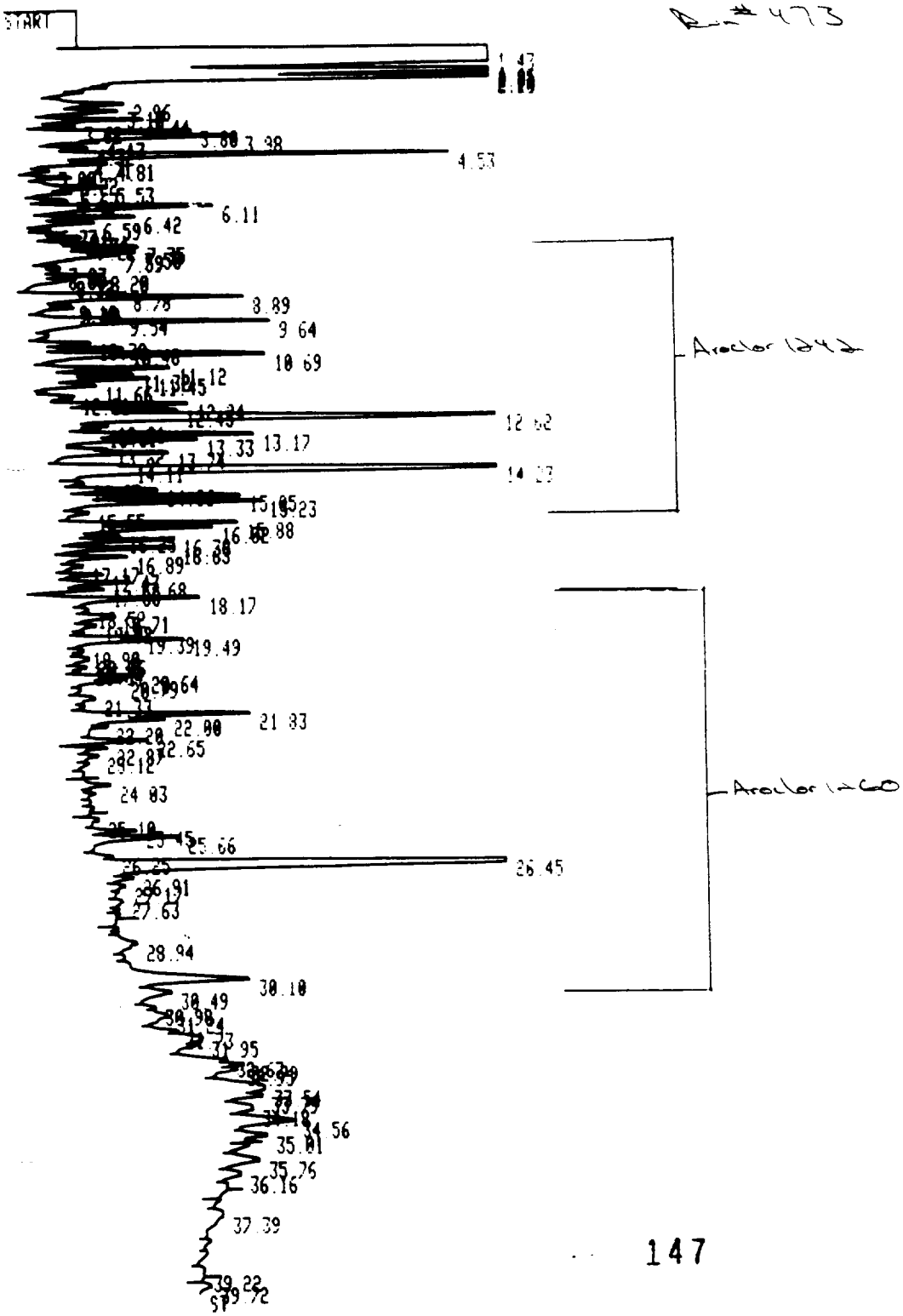
TOTAL AREA= 2.1695E+08

617-11

CAPILLARY COLUMN-CONFIRMATION

INSTRUMENT: H-P 5890A GC; H-P 7673A Autosampler; H-P 3392A Integrator. **COLUMN:** 30 m long x .25 mm ID fused silica capillary DB-5, 0.25 micrometer film thickness (J&W Scientific) ; helium carrier gas at 1.1 mL/min at 270C and 25 psi; splitless mode; septum purge at 5.5 mL/min; total flow at 27 mL/min; 5% methane/ 95% argon as make-up gas. **CONDITIONS:** Injector at 180C; column temperature programmed with an initial 2 min. hold at 160C and ramped at 3.5C/min to 270C, held for a final 6.5 minutes; detector at 300C. **VOLUME INJECTED:** 2.0 microliters.

Sample Description: 7334 (oil)
Lab No: 493439 (100 dilution)
Run # 473



2 2 0606

017-12

Lab No: 493439 (Joe Schulz)

RUN # 473 OCT/01/86 00:05:17
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 17

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.43	8.5723E+07	†SBB	0.172	91.892
1.95	150530	TBV	0.062	0.161
2.01	257130	TVV	0.063	0.276
2.14	120240	TVV	0.057	0.129
2.20	205900	TVP	0.057	0.221
2.96	47980	PV	0.142	0.051
3.18	42941	VV	0.133	0.046
3.44	40590	VV	0.091	0.044
3.62	14454	VP	0.086	0.016
3.80	44686	PV	0.067	0.048
3.98	131640	VV	0.153	0.141
4.13	19769	VV	0.070	0.021
4.32	29796	VV	0.122	0.032
4.53	188430	VV	0.106	0.202
4.71	17592	VV	0.072	0.019
4.81	29614	VV	0.086	0.032
5.00	10505	VP	0.106	0.011
5.22	15488	PV	0.079	0.017
5.53	52686	VV	0.151	0.057
5.67	19857	VV	0.101	0.021
5.94	19864	VV	0.111	0.021
6.11	117090	VV	0.148	0.126
6.42	37621	VV	0.081	0.040
6.59	35792	VV	0.122	0.038
6.77	7738	VV	0.073	0.008
6.91	15152	VV	0.097	0.016
7.04	23452	VV	0.099	0.025
7.22	28343	VV	0.105	0.030
7.35	59753	VV	0.125	0.064
7.50	35831	VV	0.077	0.038
7.59	47795	VV	0.124	0.051
7.93	12390	VV	0.085	0.013
8.06	20840	VV	0.141	0.022
8.20	29306	VV	0.090	0.031
8.32	30379	VP	0.170	0.033
8.78	28266	PV	0.068	0.030
8.89	103690	VV	0.113	0.111
9.10	15611	VV	0.088	0.017
9.19	21723	VV	0.117	0.023
9.54	32150	VV	0.085	0.035
9.64	121880	VV	0.121	0.131
10.30	12097	PB	0.070	0.013
10.48	19812	BP	0.072	0.021
10.69	117140	PP	0.130	0.126
11.12	57486	PV	0.106	0.062
11.32	36327	VV	0.094	0.039
11.45	47736	VV	0.105	0.051
11.66	31203	VP	0.134	0.034
12.01	16047	VV	0.116	0.017
12.24	58282	VV	0.096	0.063
12.43	55706	VV	0.101	0.060
12.62	357330	VV	0.144	0.383
12.91	29456	VV	0.116	0.032
13.01	18776	VV	0.087	0.020
13.17	90334	VV	0.105	0.097
13.33	67695	VV	0.110	0.073
13.62	17380	VV	0.075	0.019
13.74	58641	VP	0.121	0.063
14.11	11564	PV	0.048	0.012
14.23	1030000	VB	0.074	1.104
14.65	4337	BP	0.088	0.005
14.86	38676	PV	0.104	0.042
15.05	68142	VV	0.093	0.073
15.23	95102	VV	0.116	0.102
15.55	18660	VV	0.155	0.020
15.88	65940	VV	0.087	0.071
16.02	87240	VV	0.132	0.094
16.25	27086	VV	0.097	0.029
16.63	58569	VV	0.112	0.063
16.89	46170	VV	0.136	0.050
17.17	32179	VV	0.189	0.035
17.43	35098	VV	0.134	0.038
17.68	56719	VV	0.146	0.061
17.88	34021	VP	0.119	0.037
18.17	112320	PV	0.163	0.120
18.52	36800	VV	0.188	0.040
18.71	30110	VV	0.104	0.032
19.02	38915	VV	0.195	0.042
19.39	28635	VV	0.083	0.031
19.49	68984	VV	0.129	0.074
19.80	12517	VV	0.131	0.013
20.06	19533	VV	0.190	0.021
20.34	7742	VV	0.102	0.008
20.64	15454	PB	0.072	0.017
20.79	5239	BP	0.059	0.006
21.33	16214	PV	0.176	0.017
21.83	94850	VV	0.126	0.102
22.00	50432	VV	0.128	0.054
22.20	37019	VV	0.223	0.040
22.65	47706	VP	0.140	0.051
22.87	19478	PV	0.116	0.021
23.12	21520	VV	0.180	0.023
24.03	13581	BV	0.114	0.015
25.10	6682	PV	0.148	0.007
25.45	20062	VV	0.101	0.022
25.66	56763	VP	0.151	0.061
26.25	10994	PV	0.125	0.012
26.45	832900	VV	0.142	0.893
26.91	23057	VV	0.162	0.025
27.17	15099	VV	0.166	0.016
27.63	11431	VV	0.209	0.012
28.94	23790	PP	0.271	0.026
30.10	124710	VV	0.249	0.134
30.49	40651	VV	0.259	0.044
30.98	8141	VV	0.127	0.009
31.24	29803	VP	0.298	0.032
31.77	11801	PV	0.117	0.013
31.95	50070	VV	0.266	0.054
32.67	33044	VV	0.157	0.035
32.79	36391	VV	0.142	0.039
32.95	55315	VV	0.250	0.059
33.54	98802	VV	0.363	0.106
33.79	43871	VV	0.189	0.047
34.18	45342	VV	0.304	0.049
34.56	71713	VV	0.258	0.077
35.01	17968	VB	0.150	0.019
35.26	29741	PV	0.217	0.032
36.16	14449	VP	0.200	0.016
37.39	22124	PP	0.430	0.024
39.22	3064	PB	0.167	0.003
39.72	7930 I	BP	0.178	0.009

Aroclor 1242

Aroclor 1260

TOTAL AREA= 9.3287E+07
MUL FACTOR= 1.0000E+00

Laboratory Name Clayton

Client: Envirosphere

Sample Number (oil) 7334

013-19

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 25 Sept. 1986

Date Analyzed 29 Sept. 1986

Conc/Dil Factor 1/2 (GPC Effluent) - 1/100

Percent Moisture (decanted) _____

GPC Cleanup ☑Yes ☐No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or (ug/Kg) (Circle One)
319-84-6	Alpha-BHC	80 u
319-85-7	Beta-BHC	80 u
319-86-8	Delta-BHC	80 u
58-89-9	Gamma-BHC (Lindane)	80 u
76-44-8	Heptachlor	80 u
309-00-2	Aldrin	80 u
1024-57-3	Heptachlor Epoxide	80 u
959-98-8	Endosulfan I	80 u
60-57-1	Dieldrin	160 u
72-55-9	4,4'-DDE	160 u
72-20-8	Endrin	160 u
33213-65-9	Endosulfan II	160 u
72-54-8	4,4'-DDD	160 u
1031-07-8	Endosulfan Sulfate	160 u
50-29-3	4,4'-DDT	160 u
72-43-5	Methoxychlor	800 u
53494-70-5	Endrin Ketone	160 u
57-74-9	Chlordane	800 u
8001-35-2	Toxaphene	16000 u
12674-11-2	Aroclor-1016	800 u
11104-28-2	Aroclor-1221	800 u
11141-16-5	Aroclor-1232	800 u
53469-21-9	Aroclor-1242	35000
12672-29-6	Aroclor-1248	800 u
11097-69-1	Aroclor-1254	1600 u
11096-82-5	Aroclor-1260	16000

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 50 V_t 5000 ul V_i 100 ul

50000 ul - 1 ml oil.

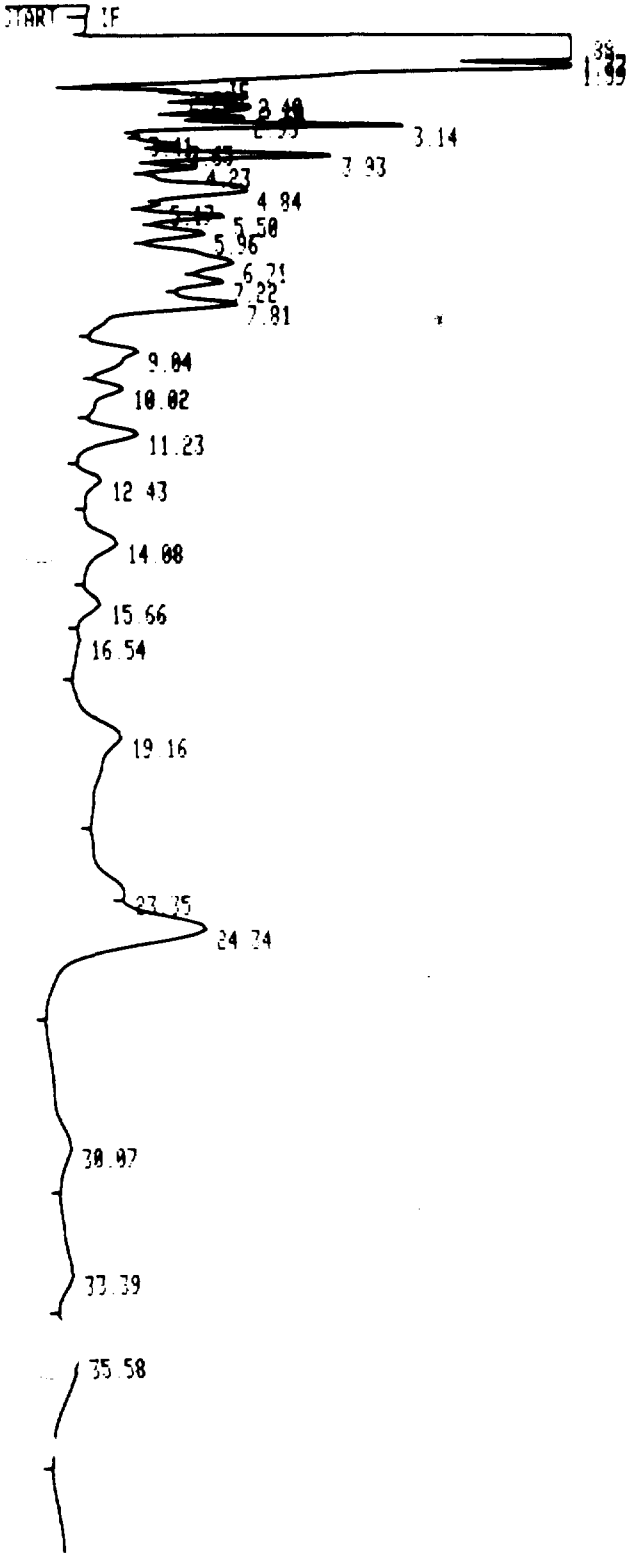
T.O. 10-2-86

017-13

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator **COLUMN & PACKING:** .8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; **CONDITIONS:** Injector at 200C; column at 220C (isothermal); detector at 300C; **VOLUME INJECTED:** 1.0 microliter

Sample Description: 7334 (oil)
Lab No: 493439 Duplicate (1/100 dilution



RUN # 262 SEP/29/8_ 20:26:21
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 17

AREA%

RT	AREA	TYPE	AR/H	AREA%
0.88	9.9264E+07	†SPR	0.21[illegible]	90.689
1.27	22061	D BB	0.04[illegible]	0.020
1.37	195130	D BB	0.08[illegible]	0.178
1.59	724800	I BB	0.17[illegible]	0.662
2.20	56232	PB	0.09[illegible]	0.051
2.40	140270	BB	0.12[illegible]	0.128
2.64	230110	BB	0.20[illegible]	0.210
2.93	84269	BB	0.09[illegible]	0.077
3.14	436910	BB	0.12[illegible]	0.399
3.41	2876	BB	0.079	0.003
3.65	54448	BB	0.11[illegible]	0.050
3.93	421690	BB	0.163	0.385
4.23	93230	BB	0.13[illegible]	0.085
4.84	474680	BB	0.350	0.434
5.17	11455	D BB	0.12[illegible]	0.011
5.50	210500	BB	0.190	0.192
5.96	189560	BB	0.23[illegible]	0.173
6.71	365230	BB	0.444	0.334
7.22	104370	BP	0.198	0.095
7.81	268740	BB	0.21[illegible]	0.246
9.04	364090	BB	0.53[illegible]	0.333
10.02	178800	BB	0.396	0.163
11.23	343310	BB	0.44[illegible]	0.314
12.43	123880	BB	0.427	0.113
14.08	313350	BB	0.66[illegible]	0.286
15.66	139720	BB	0.51[illegible]	0.128
16.54	22909	BB	0.63[illegible]	0.021
19.16	780130	BB	1.313	0.713
24.34	941840	BB	0.63[illegible]	0.861
30.07	263680	BB	1.34[illegible]	0.241
33.39	269380	BB	1.47[illegible]	0.246
35.58	493260	BB	1.806	0.451
41.72	92889	BB	4.76-	0.085
43.54	181290	BB	1.801	0.166
47.74	1154400	BB	3.84[illegible]	1.055
56.57	442600	BB	2.771	0.404

Aroclor 1242

Aroclor 1260

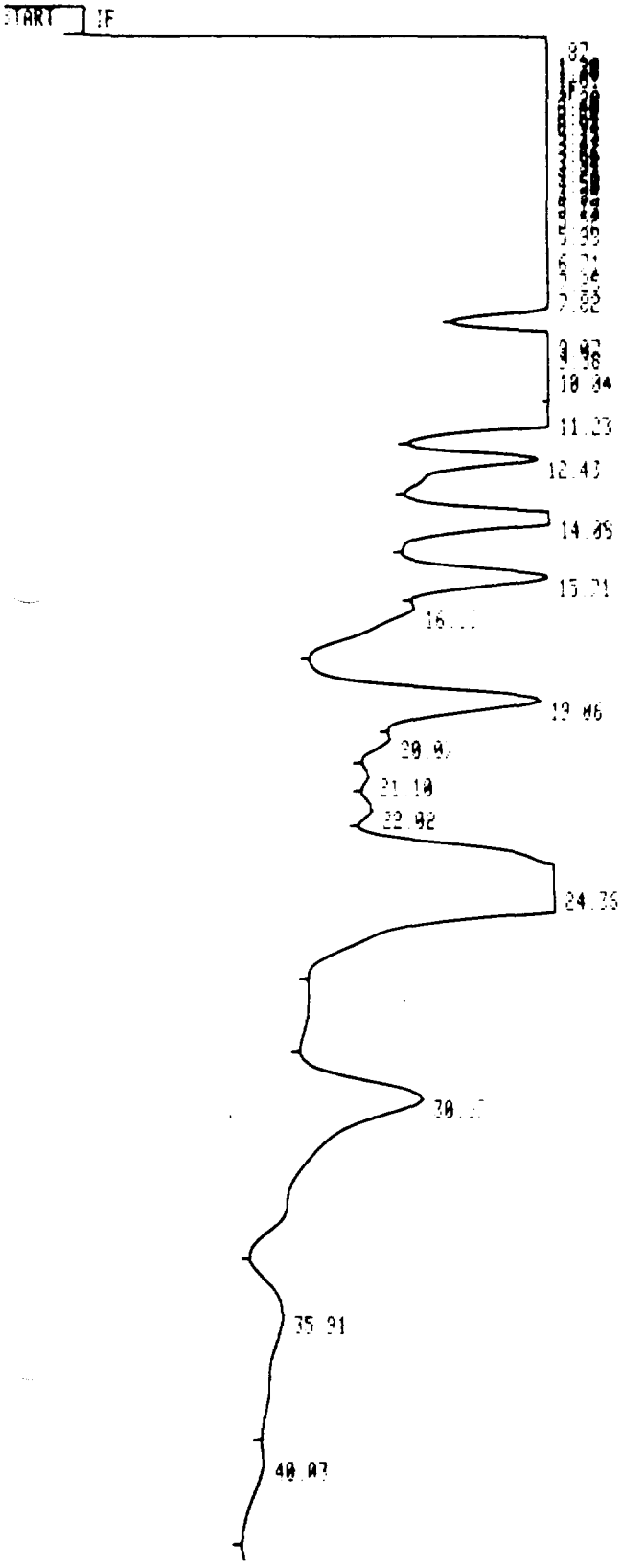
TOTAL AREA= 1.0946E+08
MUL FACTOR= 1.0000E+00

017-14

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator **COLUMN & PACKING:** 1.8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; **CONDITIONS:** Injector at 200C; column at 220C (isothermal); detector at 300C; **VOLUME INJECTED:** 1.0 microliter

Sample Description: 7334 (oil)
Lab No: 493439 Duplicate (1/10 dilution)



RUN # 270 SEP/30/[illegible] 04:40:20
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 33

AREA%

RT	AREA	TYPE	AR/H	AREA%
0.87	1.4758E+08	↑SBB	0.32[illegible]	73.120
1.28	217770	D BB	0.052	0.108
1.38	1253300	D BB	0.09[illegible]	0.621
1.61	3811900	I BB	0.184	1.889
2.20	354010	PB	0.08[illegible]	0.175
2.40	658930	BB	0.126	0.327
2.64	1319600	BB	0.18[illegible]	0.654
2.94	454840	BB	0.094	0.225
3.15	2477900	BB	0.13[illegible]	1.223
3.41	16902	BB	0.07[illegible]	0.008
3.66	408300	BB	0.12[illegible]	0.202
3.94	2492900	BB	0.164	1.235
4.24	516830	BB	0.13[illegible]	0.256
4.50	56686	BB	0.09[illegible]	0.028
4.85	2663100	BB	0.30[illegible]	1.319
5.19	87419	D BB	0.11[illegible]	0.043
5.52	1436200	BB	0.19[illegible]	0.712
5.98	1145800	BB	0.23[illegible]	0.568
6.71	2213500	BB	0.42[illegible]	1.097
7.25	928430	BB	0.21[illegible]	0.460
7.82	1535000	BB	0.18[illegible]	0.761
9.07	34028	BB	0.10[illegible]	0.017
9.38	358760	BB	0.30[illegible]	0.178
10.04	1749800	BB	0.581	0.867
11.23	2250600	BB	0.43[illegible]	1.115
12.43	948520	BB	0.486	0.470
14.08	1761100	BB	0.57[illegible]	0.873
15.71	1156600	BB	0.556	0.573
16.53	183040	BB	0.74[illegible]	0.091
19.06	1821600	BB	0.664	0.903
20.07	49282	BB	0.43[illegible]	0.024
21.10	42013	BB	0.42[illegible]	0.021
22.02	89777	BB	0.51[illegible]	0.045
24.36	1.2695E+07	BB	1.202	6.290
30.07	4154100	VB	1.98[illegible]	2.058
35.91	1071000	BB	2.496	0.531
40.03	110320	BB	1.19[illegible]	0.055
43.32	303600	BB	1.899	0.150
48.08	535060	BB	2.19[illegible]	0.265
56.07	889650	PB	2.416	0.441

TOTAL AREA= 2.0183E+08
MUL FACTOR= 1.0000E+00

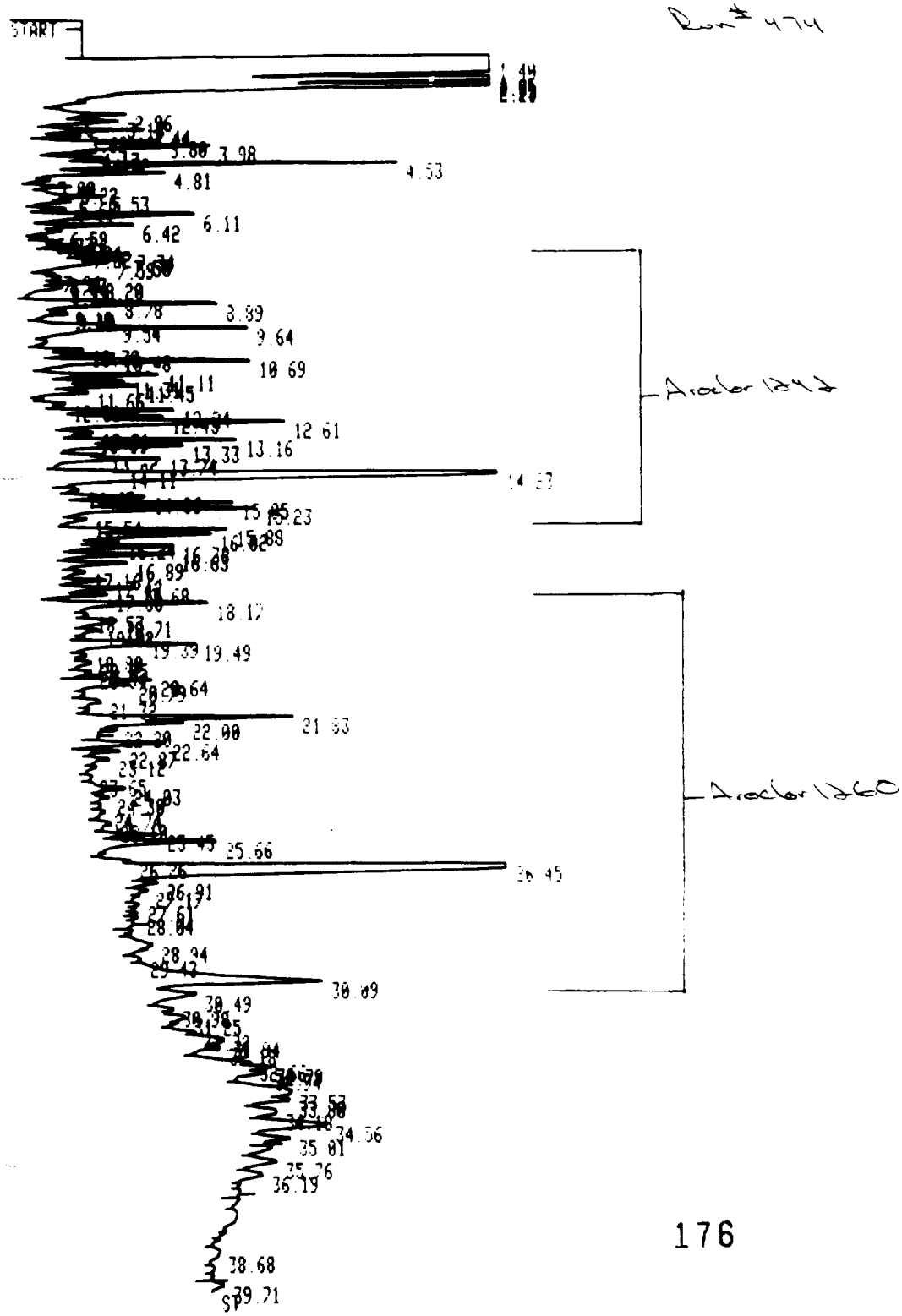
2 2 0610

9 7 15

CAPILLARY COLUMN-CONFIRMATION

INSTRUMENT: H-P 5890A GC; H-P 7673A Autosampler; H-P 3392A Integrator. **COLUMN:** [illegible] long x .25 mm ID fused silica capillary DB-5, 0.25 micrometer film thickness [illegible] Scientific) ; helium carrier gas at 1.1 mL/min at 270C and 25 psi; splitless [illegible] septum purge at 5.5 mL/min; total flow at 27 mL/min; 5% methane/ 95% argon [illegible] gas. **CONDITIONS:** Injector at 180C; column temperature programmed with an [illegible] min. hold at 160C and ramped at 3.5C/min to 270C, held for a final 6.5 min [illegible] detector at 300C. **VOLUME INJECTED:** 2.0 microliters.

Sample Description: 7334 (oil)
Lab No: 493439 Rep. (1/100 Dilution)
Run # 474



017-16

Lab No: 493439 Dup. (1:100 Dilution)

RUN # 474 OCT/01/95 00:51:24
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 18

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.40	1.1439E+08	†SBB	0.229	33.717
1.95	157940	TBV	0.061	0.129
2.01	275310	TVV	0.061	0.226
2.15	125330	TVV	0.057	0.103
2.21	216600	TVP	0.056	0.178
2.96	27803	TPB	0.108	0.023
3.18	24927	BP	0.104	0.020
3.44	34605	PH	0.083	0.029
3.62	13218	HP	0.082	0.011
3.80	34948	PV	0.067	0.029
3.98	112490	VV	0.152	0.092
4.13	16262	VV	0.066	0.013
4.32	36639	VV	0.124	0.030
4.53	156400	VV	0.100	0.128
4.81	63435	VV	0.110	0.052
5.00	9760	VP	0.103	0.008
5.22	15547	PV	0.083	0.013
5.53	50586	VV	0.157	0.042
5.68	18619	VV	0.101	0.015
5.93	18536	VV	0.111	0.015
6.11	103460	VV	0.145	0.085
6.42	38348	VV	0.084	0.031
6.59	21385	VV	0.141	0.018
6.77	6106	VV	0.070	0.005
6.91	14331	VV	0.100	0.012
7.04	20662	VV	0.099	0.017
7.22	26309	VV	0.104	0.022
7.34	54967	VV	0.126	0.045
7.50	33308	VV	0.079	0.027
7.59	64148	VV	0.182	0.053
7.94	10134	VV	0.078	0.008
8.03	22246	VV	0.145	0.018
8.20	28205	VV	0.092	0.023
8.33	28453	VP	0.177	0.023
8.78	26516	PV	0.069	0.022
8.89	94541	VV	0.116	0.078
9.10	15144	VV	0.091	0.012
9.19	21708	VV	0.123	0.018
9.54	32716	VV	0.090	0.027
9.64	117820	VV	0.127	0.097
10.30	20125	VV	0.093	0.017
10.48	37715	VV	0.108	0.031
10.69	131740	VV	0.143	0.108
11.11	59201	VV	0.113	0.049
11.31	36756	VV	0.098	0.030
11.45	45968	VV	0.107	0.038
11.66	29601	VP	0.137	0.024
12.01	15635	VV	0.139	0.013
12.24	54530	VV	0.097	0.045
12.43	52325	VV	0.102	0.043
12.61	165780	VV	0.162	0.136
12.91	22317	VV	0.110	0.018
13.01	16280	VV	0.087	0.013
13.16	84808	VV	0.105	0.070
13.33	63380	VV	0.111	0.052
13.62	16094	VV	0.074	0.013
13.74	56744	VP	0.122	0.047
14.11	11302	PV	0.046	0.009
14.23	363700	VB	0.077	0.298
14.65	4981	BV	0.093	0.004
14.86	33314	VV	0.099	0.027
15.05	68031	VV	0.095	0.056
15.23	94126	VV	0.115	0.077
15.54	13893	VV	0.124	0.011
15.88	62106	VV	0.087	0.051
16.02	85171	VV	0.131	0.070
16.24	25476	VV	0.096	0.021
17.16	26132	VV	0.179	0.021
17.42	29225	VV	0.122	0.024
17.68	48701	VV	0.135	0.040
17.88	28904	VP	0.113	0.024
18.17	100190	PV	0.148	0.082
18.53	27182	VV	0.180	0.022
18.71	26636	VV	0.101	0.022
19.02	31253	VV	0.184	0.026
19.39	26152	VV	0.078	0.021
19.49	65734	VV	0.119	0.054
19.80	9046	VV	0.121	0.007
20.05	12561	VP	0.151	0.010
20.34	3681	PB	0.072	0.003
20.64	33987	BV	0.105	0.028
20.79	25106	VV	0.111	0.021
21.32	15688	PV	0.168	0.013
21.83	105260	PV	0.119	0.086
22.00	45046	VV	0.113	0.037
22.20	9379	VB	0.091	0.008
22.64	40770	BP	0.126	0.033
22.87	17282	PV	0.097	0.014
23.12	21938	VV	0.174	0.018
23.65	6917	VV	0.162	0.006
24.03	27287	VV	0.155	0.022
24.30	14563	VV	0.150	0.012
24.74	14356	VV	0.205	0.012
25.10	18365	VV	0.214	0.015
25.45	30580	VV	0.111	0.025
25.66	79395	VV	0.154	0.065
26.26	14303	PV	0.109	0.012
26.45	1190100	VV	0.145	0.975
26.91	34577	VV	0.172	0.028
27.17	24765	VV	0.175	0.020
27.61	9244	VV	0.124	0.008
28.04	3148	VV	0.079	0.003
28.94	24721	PV	0.223	0.020
29.43	6090	PV	0.142	0.005
30.09	220060	VV	0.286	0.180
30.49	51229	VP	0.249	0.042
30.98	7959	PV	0.113	0.007
31.25	19415	VV	0.194	0.016
31.72	10633	PV	0.112	0.009
31.94	50416	VV	0.254	0.041
32.18	27154	VP	0.177	0.022
32.66	32726	PV	0.141	0.027
32.79	40804	VV	0.140	0.033
32.94	65012	VV	0.245	0.053
33.53	112210	VV	0.365	0.092
33.80	52365	VV	0.195	0.043
34.18	48682	VV	0.292	0.040
34.56	35201	VV	0.253	0.029
35.01	16560	VB	0.129	0.014
35.76	28889	PV	0.215	0.024
36.19	19547	VP	0.209	0.016
38.68	12467	PP	0.294	0.010
39.71	10799	I BH	0.190	0.009

Acetone 1:100

Acetone 1:100

TOTAL AREA= 1.2206E+08
MUL FACTOR= 1.0000E+00

1 2 2 0612

Laboratory Name Clayton

Client: Envirosperse

Sample Number 7335

013-22

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration Low Medium (Circle One)

Date Extracted/Prepared: Sept, 18, 1986

Date Analyzed: Sept, 24, 1986

Conc/Dil Factor: 1

Percent Moisture (decanted) ——

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☑Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 u
319-85-7	Beta-BHC	0.05 u
319-86-8	Delta-BHC	0.05 u
58-89-9	Gamma-BHC (Lindane)	0.05 u
76-44-8	Heptachlor	0.05 u
309-00-2	Aldrin	0.05 u
1024-57-3	Heptachlor Epoxide	0.05 u
959-98-8	Endosulfan I	0.05 u
60-57-1	Dieldrin	0.10 u
72-55-9	4, 4'-DDE	0.10 u
72-20-8	Endrin	0.10 u
33213-65-9	Endosulfan II	0.10 u
72-54-8	4, 4'-DDD	0.10 u
1031-07-8	Endosulfan Sulfate	0.10 u
50-29-3	4, 4'-DDT	0.10 u
72-43-5	Methoxychlor	0.5 u
53494-70-5	Endrin Ketone	0.10 u
57-74-9	Chlordane	0.5 u
8001-35-2	Toxaphene	1.0 u
12674-11-2	Aroclor-1016	0.5 u
11104-28-2	Aroclor-1221	0.5 u
11141-16-5	Aroclor-1232	0.5 u
53469-21-9	Aroclor-1242	0.5 u
12672-29-6	Aroclor-1248	0.5 u
11097-69-1	Aroclor-1254	1.0 u
11096-82-5	Aroclor-1260	1.0 u

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s —— V_t 10,000 µl V_i 1 µl

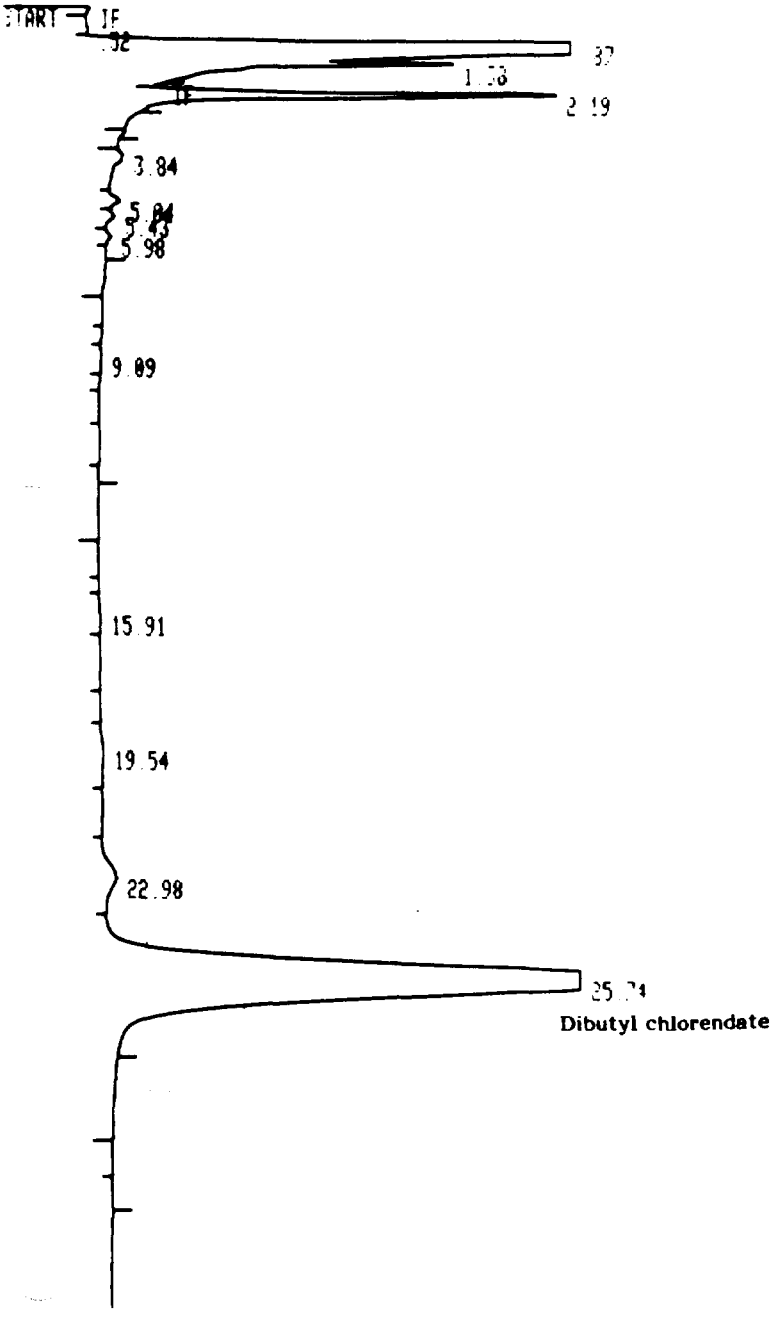
R.H 9,30,1986

r T.O. 10-1-86

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN & PACKING: .8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Sample Description: 7335
Lab No: 493432



RUN # 145 SEP/24/86 08:12:54
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 1

AREA%

	RT	AREA	TYPE	AR/H	AREA%
	0.52	8236	PB	0.30[illegible]	0.044
	0.87	9079600	SPB	0.14[illegible]	48.333
	2.19	1047600	BB	0.17[illegible]	5.577
	3.84	29675	BB	0.293	0.158
	5.04	27838	BB	0.19[illegible]	0.148
	5.43	17106	BB	0.205	0.091
	5.98	12486	BB	0.201	0.067
	9.09	5786	PB	0.341	0.031
	15.91	8433	PB	0.55[illegible]	0.045
	19.54	26153	PB	0.765	0.139
	22.98	142230	PB	0.77[illegible]	0.757
DBC	- 25.74	8296200	BB	0.974	44.163
	42.03	84004	PB	2.09[illegible]	0.447

TOTAL AREA= 1.8785E+07
MUL FACTOR= 1.0000E+00

Laboratory Name Clayton

Client: Envirespond

Sample Number 7341

013-25

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared Sept. 18. 1986

Date Analyzed Sept. 24, 1986

Conc/Dil Factor 1

Percent Moisture (decanted) ——

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☒Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		~~ug/l~~ or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 u
319-85-7	Beta-BHC	0.05 u
319-86-8	Delta-BHC	0.05 u
58-89-9	Gamma-BHC (Lindane)	0.05 u
76-44-8	Heptachlor	0.05 u
309-00-2	Aldrin	0.05 u
1024-57-3	Heptachlor Epoxide	0.05 u
959-98-8	Endosulfan I	0.05 u
60-57-1	Dieldrin	0.10 u
72-55-9	4,4'-DDE	0.10 u
72-20-8	Endrin	0.10 u
33213-65-9	Endosulfan II	0.10 u
72-54-8	4,4'-DDD	0.10 u
1031-07-8	Endosulfan Sulfate	0.10 u
50-29-3	4,4'-DDT	0.10 u
72-43-5	Methoxychlor	0.5 u
53494-70-5	Endrin Ketone	0.10 u
57-74-9	Chlordane	0.5 u
8001-35-2	Toxaphene	1.0 u
12674-11-2	Aroclor-1016	0.5 u
11104-28-2	Aroclor-1221	0.5 u
11141-16-5	Aroclor-1232	0.5 u
53469-21-9	Aroclor-1242	0.5 u
12672-29-6	Aroclor-1248	0.5 u
11097-69-1	Aroclor-1254	1.0 u
11096-82-5	Aroclor-1260	1.0 u

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000ml or W_s ——— V_t 10,000 µl V_i 1 µl

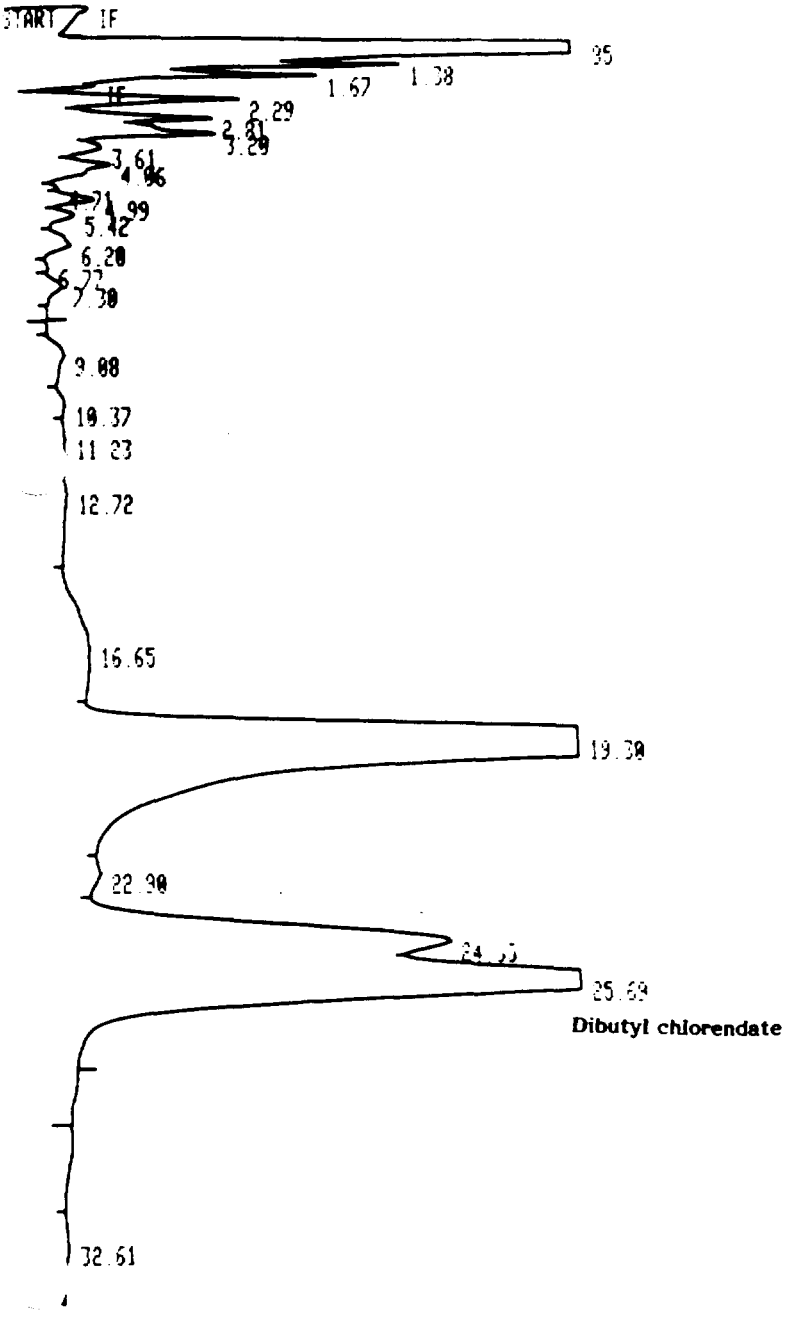
T.O. 10-2-86

017-18

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN & PACKING: .8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Sample Description : 7341
Lab No: 493434



RUN # 147 SEP/24/86 09:46:13
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 5

AREA%

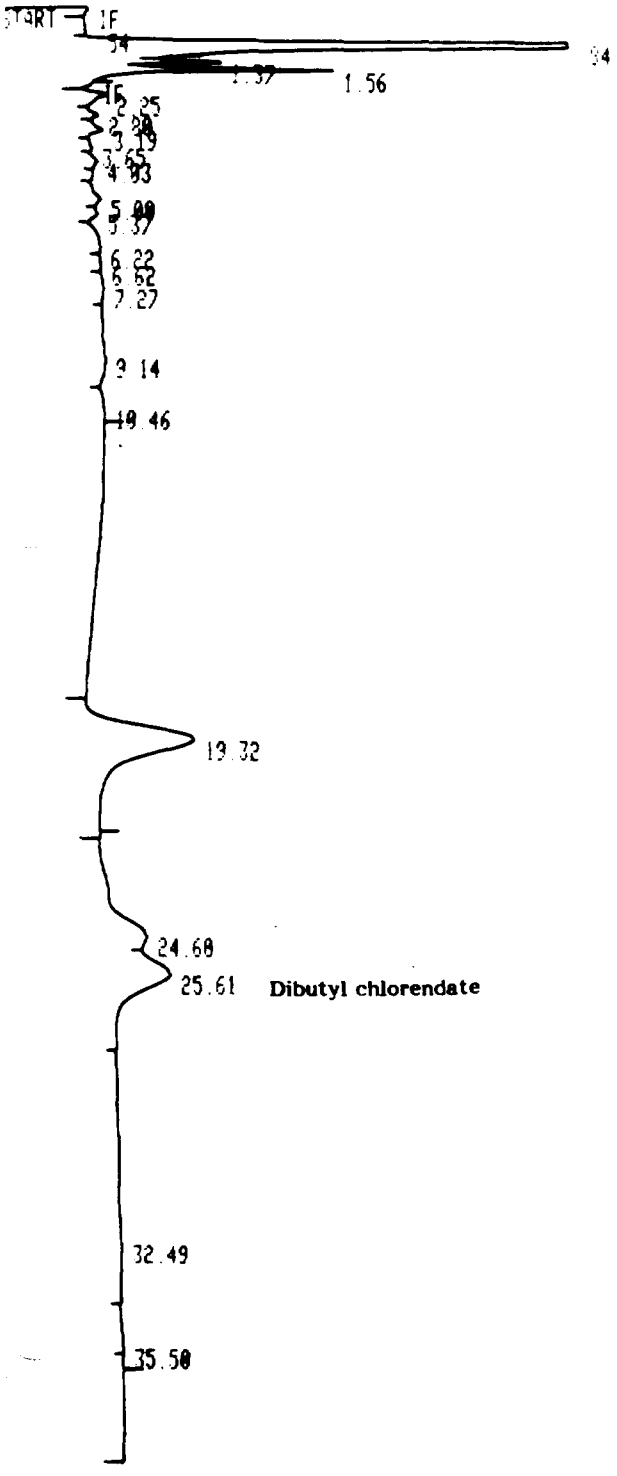
RT	AREA	TYPE	AR/H.	AREA%
0.85	1.8003E+07	SBB	0.13.	44.884
1.38	178160	D BB	0.083	0.444
1.67	286830	D BB	0.11.	0.715
2.29	527660	PB	0.19.	1.316
2.81	195750	BB	0.13.	0.488
3.20	275320	BB	0.17.	0.686
3.61	80106	BB	0.24.	0.200
4.06	217200	BB	0.327	0.542
4.71	3714	BB	0.10.	0.009
4.99	112530	BB	0.205	0.281
5.42	70079	BB	0.22.	0.175
6.20	135670	BB	0.404	0.338
6.77	6112	BB	0.18.	0.015
7.30	74941	BB	0.354	0.187
9.08	124110	PB	0.64.	0.309
10.37	29596	BB	0.415	0.074
11.23	22140	BB	0.72.	0.055
12.72	64856	BB	1.011	0.162
16.65	326680	BB	1.66.	0.815
19.30	1.4341E+07	BB	0.977	35.754
22.90	59902	BB	0.58.	0.149
24.65	766370	BB	0.43.	1.911
DEC -25.69	2072900	BB	0.39.	5.168
32.61	56821	PB	1.08.	0.142
37.19	2078600	BB	3.97.	5.182

TOTAL AREA= 4.0110E+07
MUL FACTOR= 1.0000E+00

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN & PACKING: 1.8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Sample Description: 7341
Lab No: 493434 (1/10 Dilution)



RUN # 159 SEP/24/86 19 06 21
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 23

AREA%

RT	AREA	TYPE	AR/H	AREA%
0.54	6326	PB	0.30[illegible]	0.111
0.84	3150100	BB	0.13[illegible]	55.410
1.37	88044 D	BB	0.08[illegible]	1.549
1.56	305420 D	BB	0.101	5.372
2.25	77011	PB	0.22[illegible]	1.355
2.80	17069	BB	0.13[illegible]	0.300
3.19	31548	BB	0.17[illegible]	0.555
3.65	4416	BB	0.18[illegible]	0.078
4.03	13253	BB	0.18[illegible]	0.233
5.00	22053	PB	0.23[illegible]	0.388
5.37	14626	BB	0.21[illegible]	0.257
6.22	34303	BB	0.827	0.603
6.62	3890	BB	0.24[illegible]	0.068
7.27	12680	BB	0.401	0.223
9.14	86886	BB	1.20[illegible]	1.529
10.46	17607	BB	0.556	0.310
19.32	1399200	PB	0.93[illegible]	24.612
25.61	271180	BB	0.54[illegible]	4.770
32.49	71968	BB	2.36[illegible]	1.266
46.44	57452	BB	1.76[illegible]	1.011

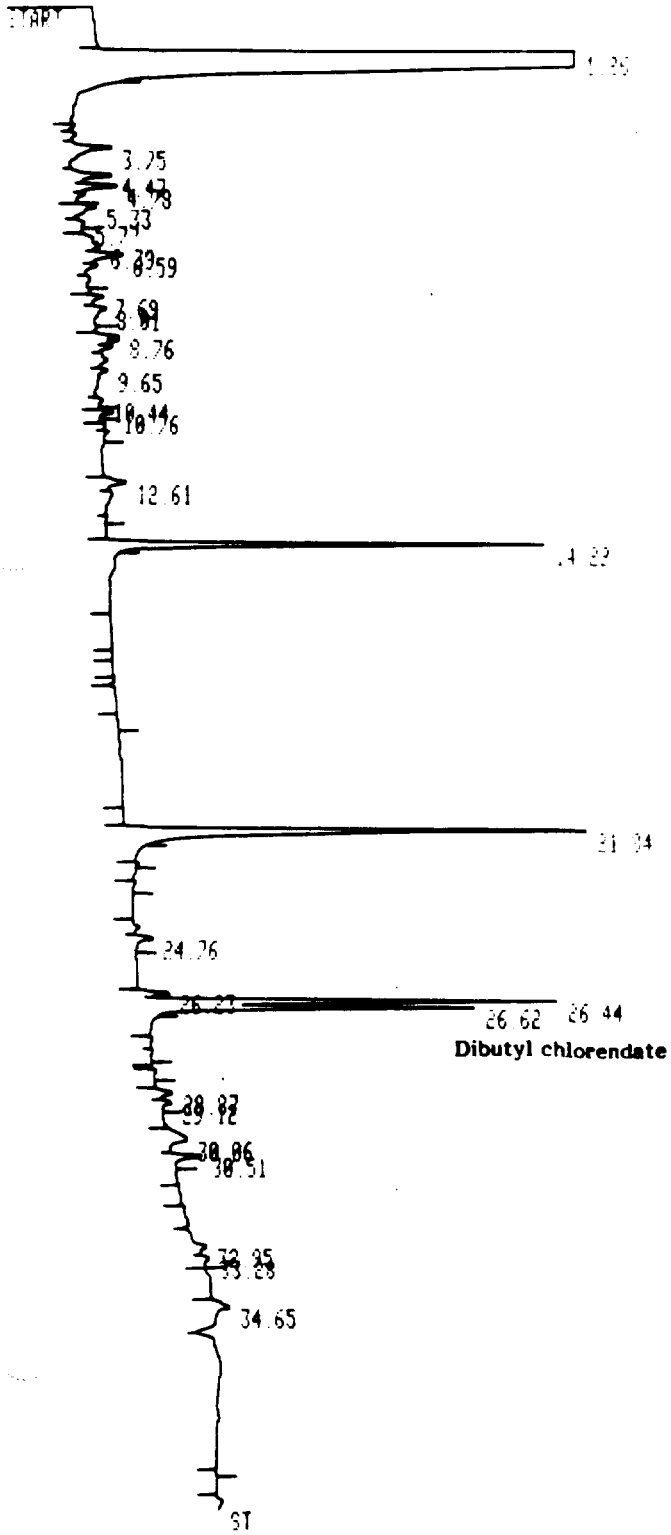
TOTAL AREA= 5685000
MUL FACTOR= 1.0000E+00

017-20

CAPILLARY COLUMN-CONFIRMATION

INSTRUMENT: H-P 5890A GC; H-P 7673A Autosampler; H-P 3392A Integrator. **COLUMN:** 30 m long x .25 mm ID fused silica capillary DB-5, 0.25 micrometer film thickness (J&W Scientific) ; helium carrier gas at 1.1 mL/min at 270C and 25 psi; splitless mode; septum purge at 5.5 mL/min; total flow at 27 mL/min; 5% methane/ 95% argon as make-up gas. **CONDITIONS:** Injector at 180C; column temperature programmed with an initial 2 min. hold at 160C and ramped at 3.5C/min to 270C, held for a final 6.5 minutes; detector at 300C. **VOLUME INJECTED:** 2.0 microliters.

Sample Description: #341
Lab No: 493434 (No dilution)



RUN # 466 SEP/30/86 18:42:27
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 10

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.26	5110900	PB	0.227	84.527
3.75	28445	VP	0.189	0.471
4.47	21597	PV	0.150	0.358
4.78	20888	VV	0.133	0.346
5.33	13981	BP	0.186	0.231
5.77	2593	PB	0.117	0.043
6.39	16918	BV	0.271	0.280
6.59	24142	VV	0.169	0.400
7.69	4808	PP	0.102	0.080
8.01	7183	PB	0.144	0.119
8.76	8566	PV	0.098	0.142
9.65	12308	VP	0.247	0.204
10.44	2516	PB	0.111	0.042
10.76	4279	BB	0.082	0.071
12.61	12246	BV	0.152	0.203
14.22	139630	PB	0.090	2.311
21.84	228880	PB	0.126	3.788
24.76	8761	PB	0.129	0.145
26.23	9102	PV	0.094	0.151
26.44	151810	VV	0.103	2.513
26.62	111060	VB	0.096	1.838
28.87	6475	BV	0.121	0.107
29.12	4739	VB	0.123	0.078
30.06	18267	BP	0.265	0.302
30.51	11175	PB	0.108	0.185
32.95	12819	PV	0.267	0.212
33.28	6278	VB	0.180	0.104
34.65	41101	BB	0.503	0.680

TOTAL AREA= 6041500
MUL FACTOR= 1.0000E+00

Laboratory Name Clayton
Client: Envirosphere

Sample Number 7342

Organics Analysis Data Sheet
(Page 3)

013-28

Pesticide/PCBs

Concentration (Low) Medium (Circle One)
Date (Extracted) Prepared Sept, 18, 1986
Date Analyzed Sept, 24, 1986
Conc (Dil) Factor 1
Percent Moisture (decanted) ——

GPC Cleanup ☐Yes ☒No
Separatory Funnel Extraction ☒Yes
Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		(ug/l) or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 u
319-85-7	Beta-BHC	0.05 u
319-86-8	Delta-BHC	0.05 u
58-89-9	Gamma-BHC (Lindane)	0.05 u
76-44-8	Heptachlor	0.05 u
309-00-2	Aldrin	0.05 u
1024-57-3	Heptachlor Epoxide	0.05 u
959-98-8	Endosulfan I	0.05 u
60-57-1	Dieldrin	0.10 u
72-55-9	4,4'-DDE	0.10 u
72-20-8	Endrin	0.10 u
33213-65-9	Endosulfan II	0.10 u
72-54-8	4,4'-DDD	0.10 u
1031-07-8	Endosulfan Sulfate	0.10 u
50-29-3	4,4'-DDT	0.10 u
72-43-5	Methoxychlor	0.5 u
53494-70-5	Endrin Ketone	0.10 u
57-74-9	Chlordane	0.5 u
8001-35-2	Toxaphene	1.0 u
12674-11-2	Aroclor-1016	0.5 u
11104-28-2	Aroclor-1221	0.5 u
11141-16-5	Aroclor-1232	0.5 u
53469-21-9	Aroclor-1242	0.5 u
12672-29-6	Aroclor-1248	0.5 u
11097-69-1	Aroclor-1254	1.0 u
11096-82-5	Aroclor-1260	1.0 u

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000ml or W_s —— V_t 10,000 µl V_i 1 µl

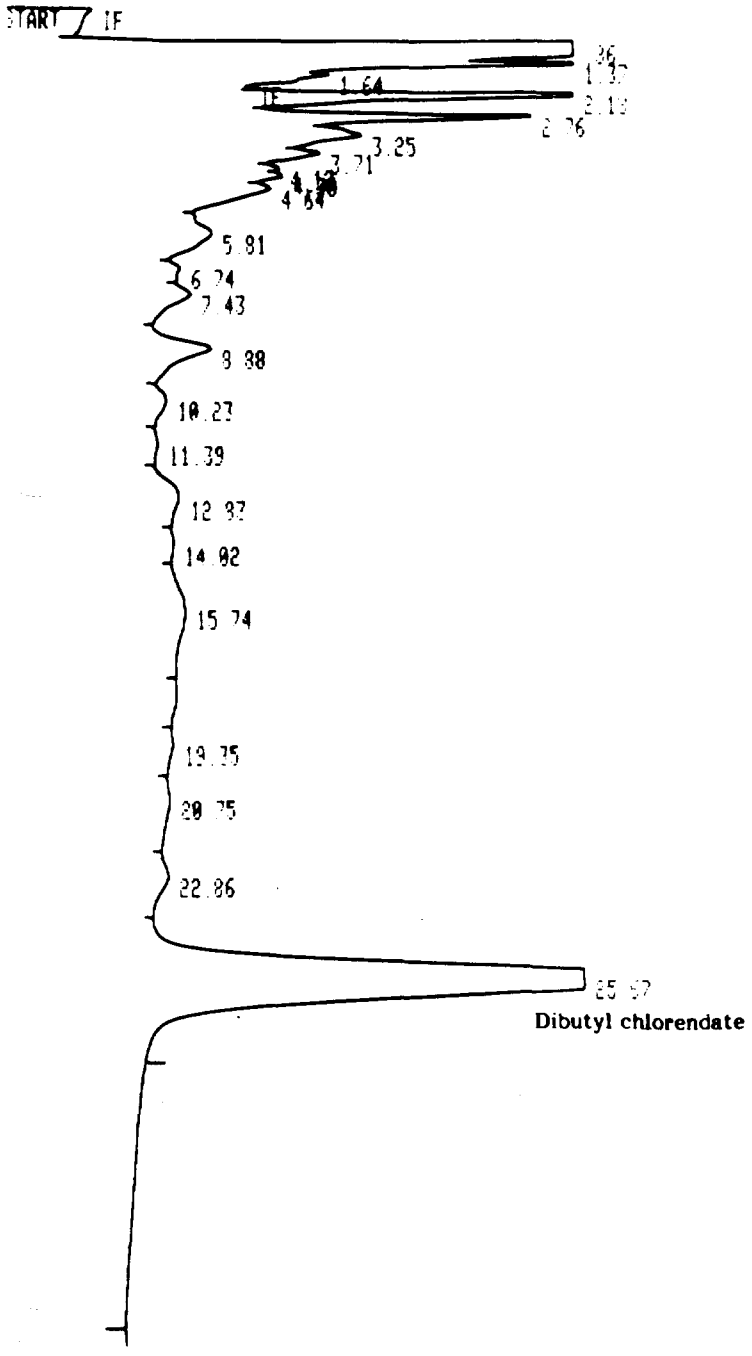
R.H 9,30,1986
VTO. 10-1-86

PACKED COLUMN-QUANTITATION

017-21

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN & PACKING: 1.8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Sample Description: 7342
Lab No: 493435



RUN # 148 SEP/24/86 10:32:57
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 7

AREA%

	RT	AREA	TYPE	AR/H.	AREA%
	0.86	8730400	SBB	0.170	39.558
	1.37	311070	D BB	0.081	1.410
	1.64	68149	I BB	0.22[illegible]	0.309
	2.18	1330100	BB	0.18[illegible]	6.027
	2.76	623490	BB	0.180	2.825
	3.25	206000	BB	0.27[illegible]	0.933
	3.71	102540	BB	0.21[illegible]	0.465
	4.12	10024	BB	0.114	0.045
	4.30	24569	BB	0.13[illegible]	0.111
	4.64	133260	BB	0.36[illegible]	0.604
	5.81	280570	BB	0.66[illegible]	1.271
	6.74	28714	BB	0.255	0.130
	7.43	131000	BB	0.44[illegible]	0.594
	8.88	496260	BB	0.606	2.249
	10.23	93523	BB	0.59[illegible]	0.424
	11.39	20685	BB	0.438	0.094
	12.83	188950	BB	0.83[illegible]	0.856
	14.02	16544	BB	0.49[illegible]	0.075
	15.74	233970	BB	1.38[illegible]	1.060
	19.35	30532	PB	0.58[illegible]	0.138
	20.75	55689	BB	0.99[illegible]	0.252
	22.86	125650	BB	0.80[illegible]	0.569
DBC –	25.67	8154200	BB	0.96[illegible]	36.947
	38.20	476190	BB	2.850	2.158
	41.89	197650	I BP	1.90[illegible]	0.896

TOTAL AREA= 2.2070E+07
MUL FACTOR= 1.0000E+00

2 2 0620

Laboratory Name Clayton

Client: Envirespense

Sample Number 7344

Organics Analysis Data Sheet
(Page 3)

013-31

Pesticide/PCBs

Concentration Low Medium (Circle One)

Date Extracted/Prepared Sept, 18, 1986

Date Analyzed Sept, 24, 1986

Conc/Dil Factor 1

Percent Moisture (decanted) ——

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☑Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 u
319-85-7	Beta-BHC	0.05 u
319-86-8	Delta-BHC	0.05 u
58-89-9	Gamma-BHC (Lindane)	0.05 u
76-44-8	Heptachlor	0.05 u
309-00-2	Aldrin	0.05 u
1024-57-3	Heptachlor Epoxide	0.05 u
959-98-8	Endosulfan I	0.05 u
60-57-1	Dieldrin	0.10 u
72-55-9	4, 4'-DDE	0.10 u
72-20-8	Endrin	0.10 u
33213-65-9	Endosulfan II	0.10 u
72-54-8	4, 4'-DDD	0.10 u
1031-07-8	Endosulfan Sulfate	0.10 u
50-29-3	4, 4'-DDT	0.10 u
72-43-5	Methoxychlor	0.5 u
53494-70-5	Endrin Ketone	0.10 u
57-74-9	Chlordane	0.5 u
8001-35-2	Toxaphene	1.0 u
12674-11-2	Aroclor-1016	0.5 u
11104-28-2	Aroclor-1221	0.5 u
11141-16-5	Aroclor-1232	0.5 u
53469-21-9	Aroclor-1242	0.5 u
12672-29-6	Aroclor-1248	0.5 u
11097-69-1	Aroclor-1254	1.0 u
11096-82-5	Aroclor-1260	1.0 u

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000ml or W_s —— V_t 10,000 µl V_i 1 µl

215

R.H 9, 30, 1986

V.T.O. 10-1-86

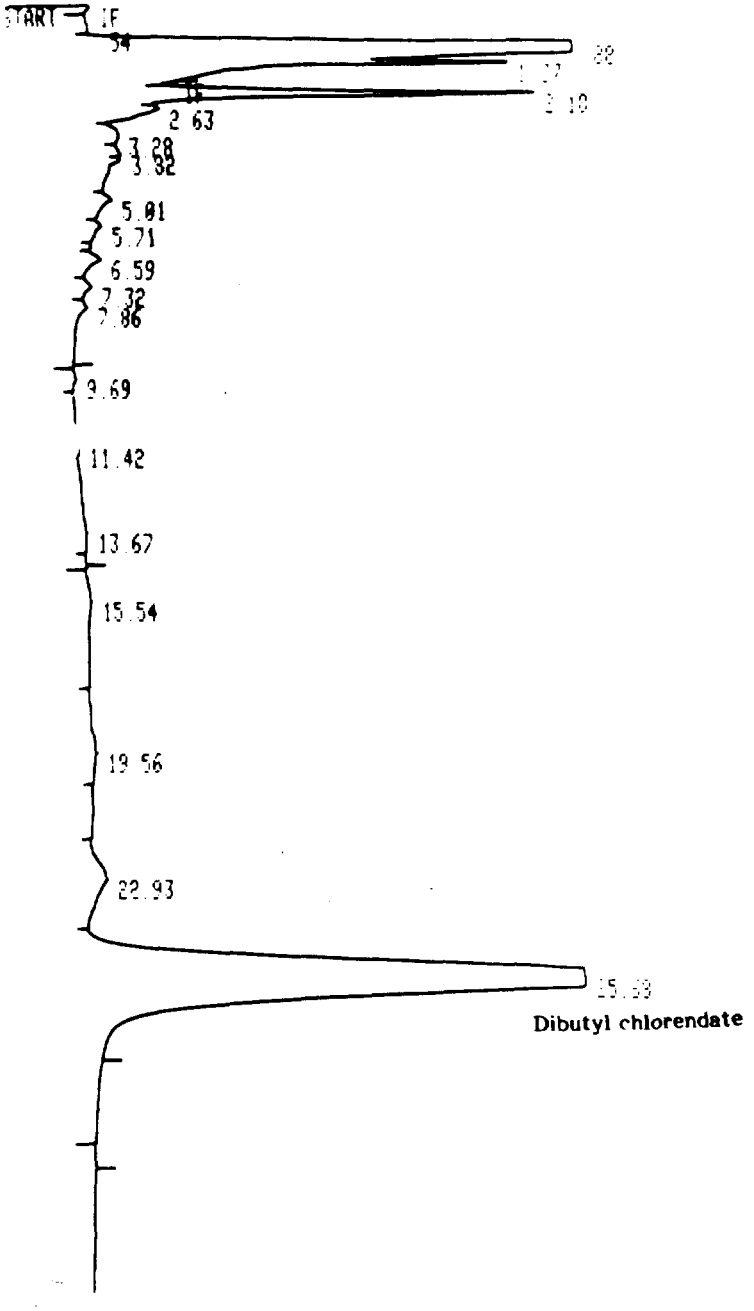
7 85

017-22

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN & PACKING: 1.8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Sample Description: 7344
Lab No: 493436



RUN # 149 SEP/24/86 11 22:24
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 9

AREA%

RT	AREA	TYPE	AR/H	AREA%
0.54	6983	PB	0.31	0.027
0.88	1.5683E+07	SPB	0.126	59.719
2.18	909270	BB	0.16	3.463
2.63	84728	BB	0.347	0.323
3.28	41787	BB	0.338	0.159
3.82	5449	BB	0.188	0.021
5.01	45426	PB	0.280	0.173
5.71	25719	BB	0.248	0.098
6.59	49704	PB	0.261	0.189
7.32	26628	BB	0.250	0.101
9.69	12323	BB	0.28	0.047
11.42	21607	BB	1.268	0.082
13.67	34601	BB	1.172	0.132
15.54	59403	BB	1.072	0.226
19.56	50396	BB	0.94	0.192
22.93	259030	VB	1.035	0.986
DBC 25.68	8617000	BB	0.97	32.816
38.43	68435	VB	1.749	0.261
42.08	258860	I BP	2.18	0.986

TOTAL AREA= 2.6261E+07
MUL FACTOR= 1.0000E+00

2 2 0622

Laboratory Name Clayton

Client: Envirosphere

Sample Number 7345

013-34

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared: Sept, 18, 1986

Date Analyzed: Sept, 24, 1986

Conc/Dil Factor: 1

Percent Moisture (decanted) ——

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☑Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 u
319-85-7	Beta-BHC	0.05 u
319-86-8	Delta-BHC	0.05 u
58-89-9	Gamma-BHC (Lindane)	0.05 u
76-44-8	Heptachlor	0.05 u
309-00-2	Aldrin	0.05 u
1024-57-3	Heptachlor Epoxide	0.05 u
959-98-8	Endosulfan I	0.05 u
60-57-1	Dieldrin	0.10 u
72-55-9	4,4'-DDE	0.10 u
72-20-8	Endrin	0.10 u
33213-65-9	Endosulfan II	0.10 u
72-54-8	4,4'-DDD	0.10 u
1031-07-8	Endosulfan Sulfate	0.10 u
50-29-3	4,4'-DDT	0.10 u
72-43-5	Methoxychlor	0.5 u
53494-70-5	Endrin Ketone	0.10 u
57-74-9	Chlordane	0.5 u
8001-35-2	Toxaphene	1.0 u
12674-11-2	Aroclor-1016	0.5 u
11104-28-2	Aroclor-1221	0.5 u
11141-16-5	Aroclor-1232	0.5 u
53469-21-9	Aroclor-1242	0.5 u
12672-29-6	Aroclor-1248	0.5 u
11097-69-1	Aroclor-1254	1.0 u
11096-82-5	Aroclor-1260	1.0 u

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000ml or W_s —— V_t 10,000µl V_i 1µl

T.O. 10-1-86

7 85 16

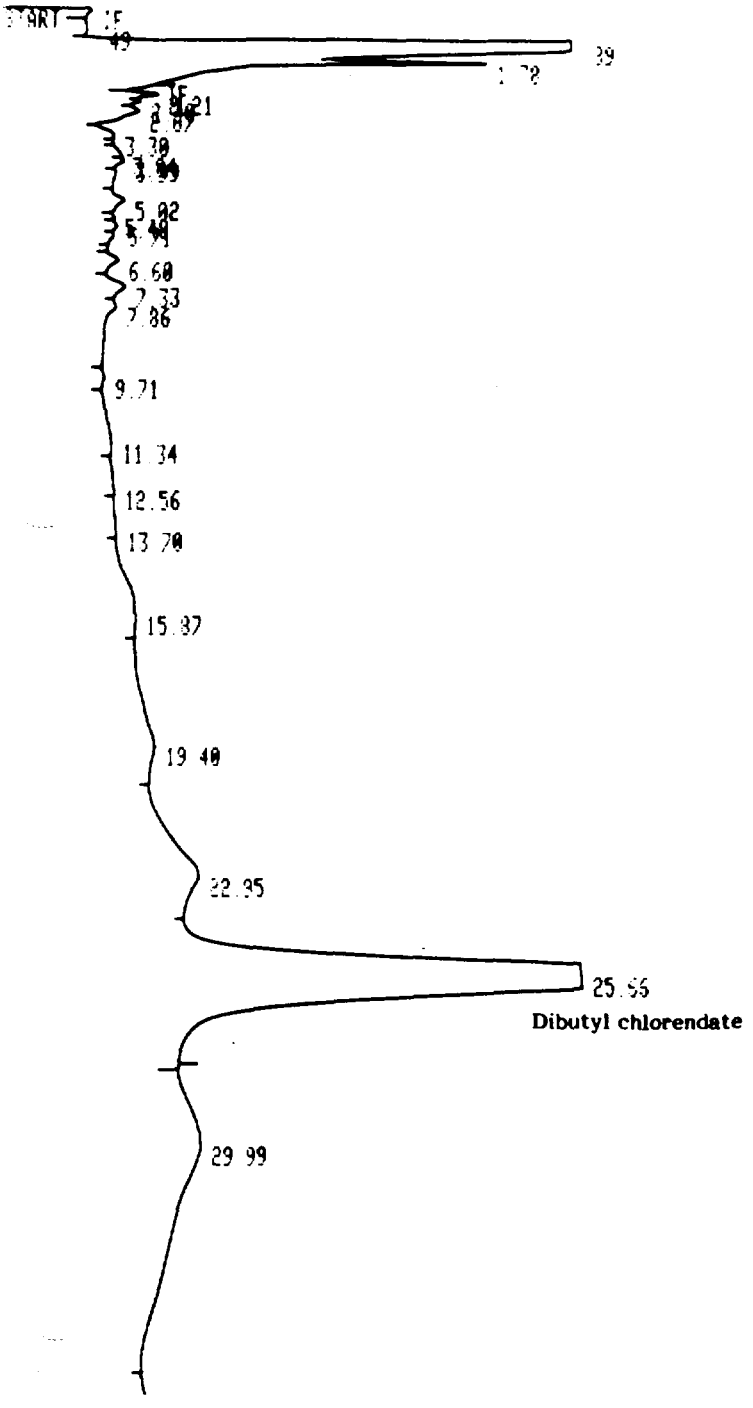
2 2 0623

017-23

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN & PACKING: 1.8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Sample Description: 7345
Lab No: 493437



RUN # 154 SEP/24/86 14:43:24
WORKFILE ID: C
WORKFILE NAME
SAMPLE # 13

AREA%

	RT	AREA	TYPE	AR/H.	AREA%
	0.49	11303	BB	0.31[illegible]	0.029
	0.89	1.6099E+07	SPB	0.122	56.170
	1.38	37064	D BB	0.01[illegible]	0.129
	2.21	38322	PB	0.104	0.134
	2.40	6778	D BB	0.09[illegible]	0.024
	2.67	82539	BB	0.32[illegible]	0.288
	3.30	16793	BB	0.23[illegible]	0.059
	3.84	3333	PB	0.183	0.012
	3.99	9015	D BB	0.12[illegible]	0.032
	5.02	41458	PB	0.238	0.145
	5.48	1641	BB	0.10[illegible]	0.006
	5.71	7844	BB	0.144	0.027
	6.60	42405	PB	0.25[illegible]	0.148
	7.33	67325	BB	0.302	0.23[illegible]
	9.71	10947	BB	0.27[illegible]	0.03[illegible]
	11.34	31514	BB	0.86[illegible]	0.11
	12.56	5196	BB	0.59[illegible]	0.01
	13.70	3627	BB	0.376	0.01[illegible]
	15.87	82414	BB	1.05[illegible]	0.28[illegible]
	19.40	136660	BB	1.058	0.47[illegible]
	22.95	481650	BP	1.26[illegible]	1.68[illegible]
DBC	25.66	8490400	BB	0.981	29.62[illegible]
	29.99	1512400	BB	3.48[illegible]	5.62[illegible]
	38.57	1341900	BB	4.195	4.682

TOTAL AREA= 2.8662E+07
MUL FACTOR= 1.0000E+00

2 2 0624

Laboratory Name Clayton

Client: Envirosphere

Sample Number 7346

013-37

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date (Extracted) Prepared Sept, 18, 1986

Date Analyzed Sept, 24, 1986

Conc/(Dil) Factor 1

Percent Moisture (decanted) ——

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☑Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		(ug/l) or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.07 u
319-85-7	Beta-BHC	0.07 u
319-86-8	Delta-BHC	0.07 u
58-89-9	Gamma-BHC (Lindane)	0.07 u
76-44-8	Heptachlor	0.07 u
309-00-2	Aldrin	0.07 u
1024-57-3	Heptachlor Epoxide	0.07 u
959-98-8	Endosulfan I	0.07 u
60-57-1	Dieldrin	0.13 u
72-55-9	4,4'-DDE	0.13 u
72-20-8	Endrin	0.13 u
33213-65-9	Endrsulfan II	0.13 u
72-54-8	4,4'-DDD	0.13 u
1031-07-8	Endosulfan Sulfate	0.13 u
50-29-3	4,4'-DDT	0.13 u
72-43-5	Methoxychlor	0.67 u
53494-70-5	Endrin Ketone	0.13 u
57-74-9	Chlordane	0.67 u
8001-35-2	Toxaphene	1.3 u
12674-11-2	Aroclor-1016	0.67 u
11104-28-2	Aroclor-1221	0.67 u
11141-16-5	Aroclor-1232	0.67 u
53469-21-9	Aroclor-1242	0.67 u
12672-29-6	Aroclor-1248	0.67 u
11097-69-1	Aroclor-1254	1.3 u
11096-82-5	Aroclor-1260	1.3 u

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 750 ml or W_s —— V_t 10,000 µl V_i 1 µl

R.H 9,30,1986

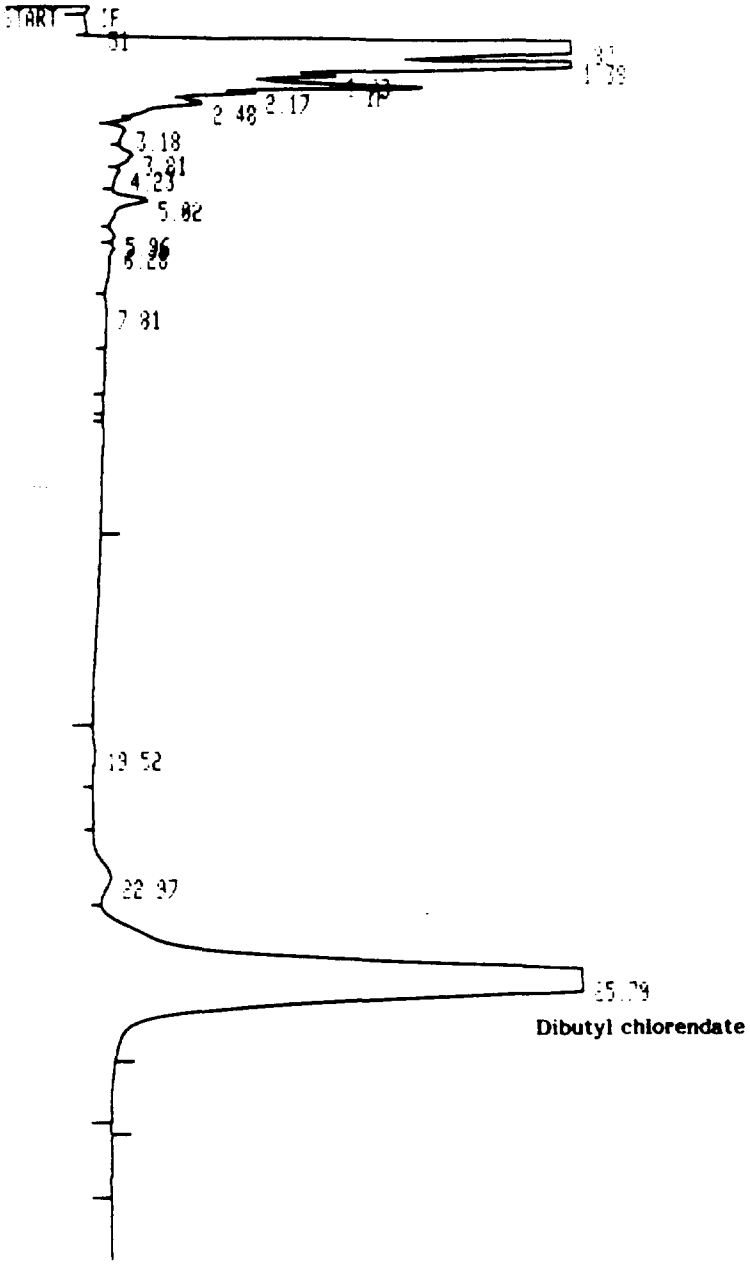
T.O. 10-1-86

017-24

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN & PACKING: .8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Sample Description: 7346
Lab No: 493431



RUN # 143 SEP/24/86 02:35:23
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 25

AREA%

	RT	AREA	TYPE	AR/H.	AREA%
	0.51	7201	PB	0.30[illegible]	0.072
	0.87	1.0761E+07	SPB	0.13[illegible]	47.419
	1.38	1721600	D BB	0.11[illegible]	7.59[illegible]
	1.73	46353	D BB	0.076	0.204
	2.17	21923	D BB	0.06[illegible]	0.09[illegible]
	2.48	67047	D BB	0.135	0.296
	3.18	45372	PB	0.26[illegible]	0.200
	3.81	56144	BB	0.29[illegible]	0.247
	4.23	4106	BB	0.13[illegible]	0.018
	5.02	139750	BB	0.27[illegible]	0.616
	5.96	10963	BB	0.19[illegible]	0.048
	6.28	16385	BB	0.47[illegible]	0.072
	7.81	15449	BB	0.65[illegible]	0.068
	19.52	30061	BB	0.70[illegible]	0.133
	22.97	126110	PB	0.71[illegible]	0.556
DBC	25.70	9586900	BB	1.02[illegible]	42.24[illegible]
	51.35	36394	PB	1.90[illegible]	0.16[illegible]

TOTAL AREA= 2.2692E+07
MUL FACTOR= 1.0000E+00

2 2 0626

Laboratory Name Clayton

Client: Envirosphere

Sample Number 7353

013-40

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared Sept. 18. 1986

Date Analyzed 24 Sept. 1986

Conc/Dil Factor 1

Percent Moisture (decanted) ——

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☑Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 u
319-85-7	Beta-BHC	0.05 u
319-86-8	Delta-BHC	0.05 u
58-89-9	Gamma-BHC (Lindane)	0.05 u
76-44-8	Heptachlor	0.05 u
309-00-2	Aldrin	0.05 u
1024-57-3	Heptachlor Epoxide	0.05 u
959-98-8	Endosulfan I	0.05 u
60-57-1	Dieldrin	0.10 u
72-55-9	4,4'-DDE	0.10 u
72-20-8	Endrin	0.10 u
33213-65-9	Endosulfan II	0.10 u
72-54-8	4,4'-DDD	0.10 u
1031-07-8	Endosulfan Sulfate	0.10 u
50-29-3	4,4'-DDT	0.10 u
72-43-5	Methoxychlor	0.5 u
53494-70-5	Endrin Ketone	0.10 u
57-74-9	Chlordane	0.5 u
8001-35-2	Toxaphene	1.0 u
12674-11-2	Aroclor-1016	0.5 u
11104-28-2	Aroclor-1221	0.5 u
11141-16-5	Aroclor-1232	0.5 u
53469-21-9	Aroclor-1242	0.5 u
12672-29-6	Aroclor-1248	0.5 u
11097-69-1	Aroclor-1254	1.0 u
11096-82-5	Aroclor-1260	1.0 u

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s —— V_t 10,000 µl V_i 1 µl

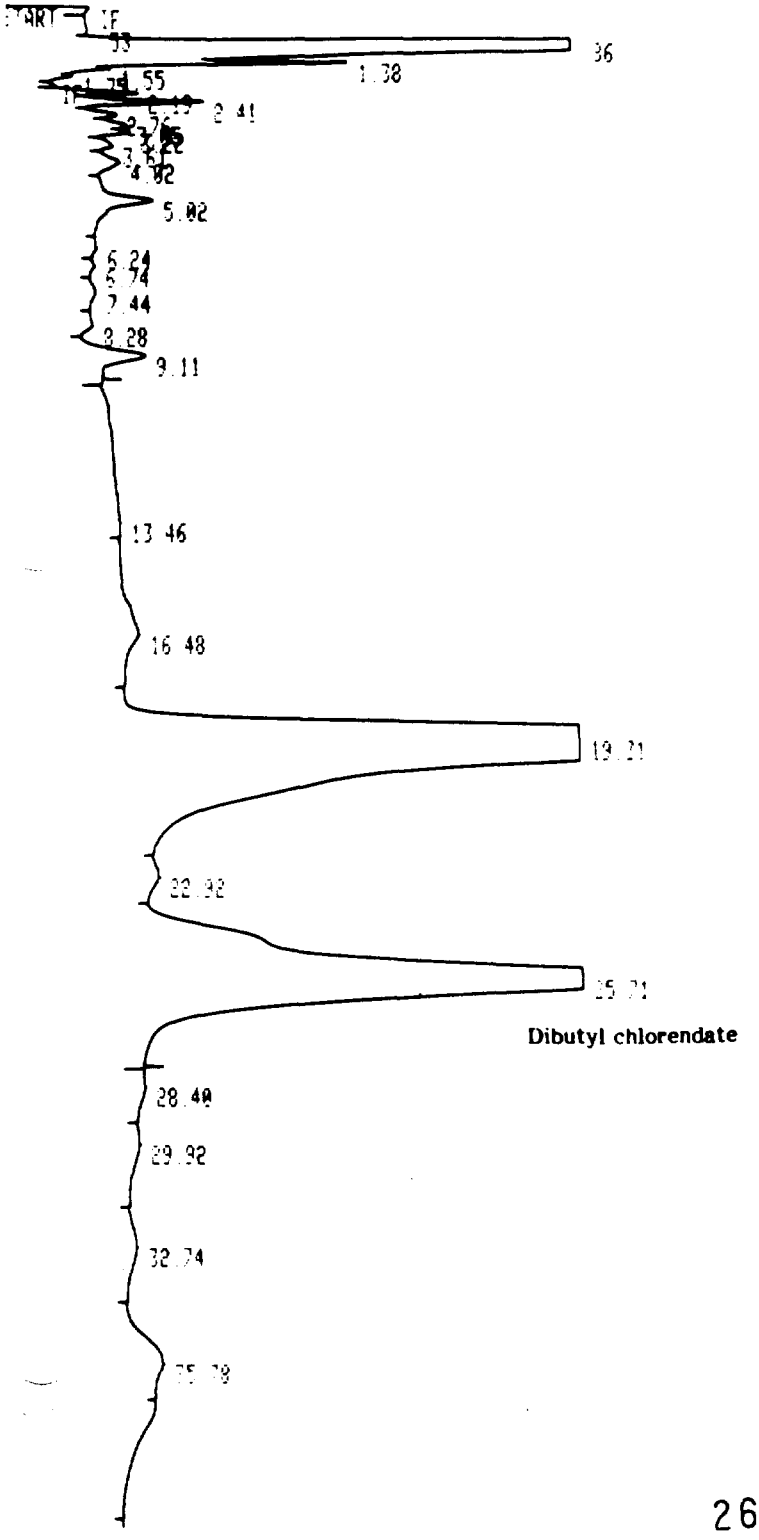
T.O. 10-2-86

2 2 0627
017-25

PACKED COLUMN-QUANTITATION

INSTRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator COLUMN & PACKING: 1.8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; CONDITIONS: Injector at 200C; column at 220C (isothermal); detector at 300C; VOLUME INJECTED: 1.0 microliter

Sample Description: 7353
Lab No: 493433



Dibutyl chlorendate

RUN # 146 SEP/24/86 08:59:27
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 3

AREA%

RT	AREA	TYPE	AR/H	AREA%
0.53	7996	PB	0.30	0.022
0.86	7368700	SPB	0.165	20.441
1.38	203370	D BB	0.08	0.564
1.55	6868	D BB	0.056	0.019
1.75	7269	D BB	0.08	0.020
2.19	102960	PB	0.116	0.286
2.41	221620	BB	0.12	0.615
2.76	41933	BB	0.134	0.116
3.05	22489	BB	0.13	0.062
3.22	27766	D BB	0.126	0.077
3.61	39781	BB	0.205	0.110
4.02	87384	BB	0.298	0.242
5.02	271720	BB	0.346	0.754
6.24	15763	BB	0.315	0.044
6.74	12242	BB	0.21	0.034
7.44	39488	BB	0.412	0.110
8.28	43603	BB	0.396	0.121
9.11	299240	BB	0.37	0.830
13.46	173400	PB	6.43	0.481
16.48	266660	BB	1.135	0.740
19.31	1.6566E+07	BB	1.00	45.954
22.92	71980	BB	0.63	0.200
DBC - 25.71	9580800	BB	1.14	26.57
28.40	34478	BB	0.70	0.096
29.92	48188	BB	0.83	0.134
32.74	137040	BB	1.165	0.380
35.78	229970	BB	0.93	0.638
41.59	120110	PB	2.15	0.333

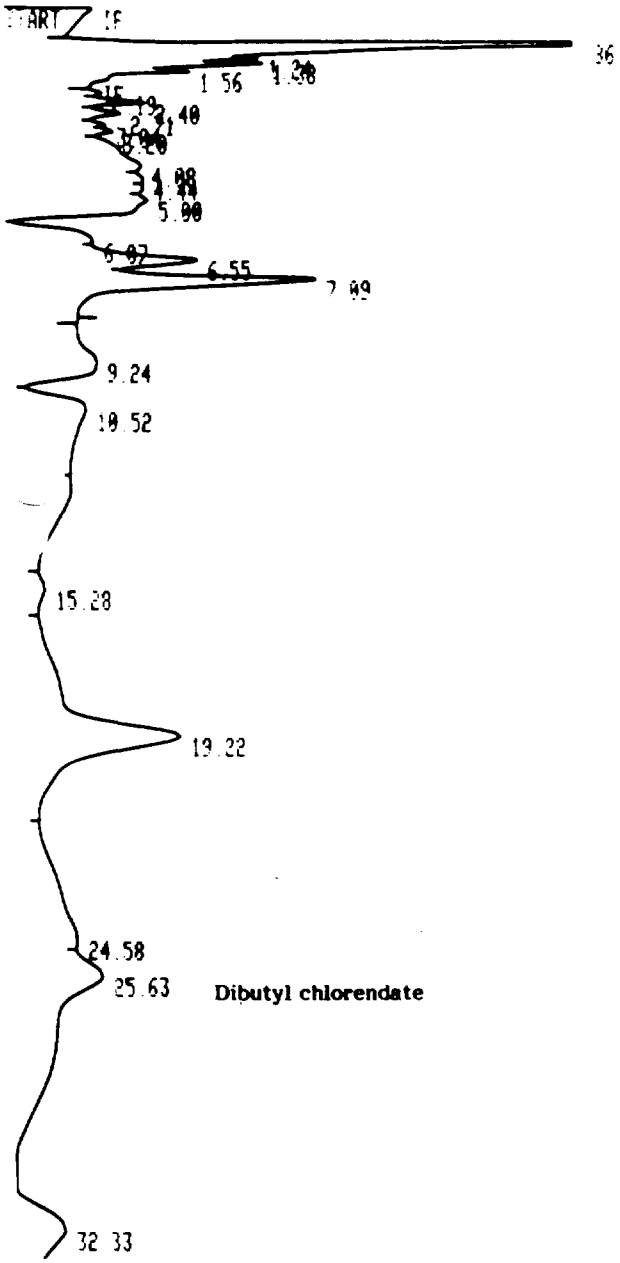
TOTAL AREA= 3.6049E+07
MUL FACTOR= 1.0000E+00

2 2 0628
017-2b

PACKED COLUMN-QUANTITATION

STRUMENT: H-P 5733A GC; H-P 7671A Autosampler; H-P 3392A Integrator **COLUMN & PACKING:** .8 m long x 4 mm ID glass column packed with GP 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcoport with 5% methane/95% argon carrier gas at a flowrate of 25 mL/min; **CONDITIONS:** Injector at 200C; column at 220C (isothermal); detector at 300C; **VOLUME INJECTED:** 1.0 microliter

Sample Description: 7353
Lab No: 493433 (1/10 Dilution)



RUN # 166 SEP-25-86 08:23:17
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 25

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.86	1942000	PB	0.15	15.621
1.24	27947	D BB	0.06	0.225
1.38	75465	D BB	0.07	0.607
2.19	14359	BB	0.10	0.116
2.40	90777	BB	0.12	0.730
2.71	57339	BB	0.13	0.461
3.04	8447	BB	0.10	0.068
3.20	19901	D BB	0.11	0.160
4.08	99550	BB	0.59	0.801
4.44	7500	BB	0.16	0.060
5.00	606370	VB	0.69	4.878
6.07	146090	BB	0.78	1.175
6.55	317010	BB	0.25	2.550
7.09	798250	BB	0.26	6.421
9.24	732200	BB	1.01	5.889
10.52	790810	BB	1.12	6.361
15.28	50411	PB	0.53	0.406
19.22	2473500	BB	1.21	19.896
24.58	26386	BB	0.46	0.212
-25.63	-717940	BB	1.40	5.775
32.33	1210400	BB	1.66	9.736
39.41	2219400	BB	3.68	17.852

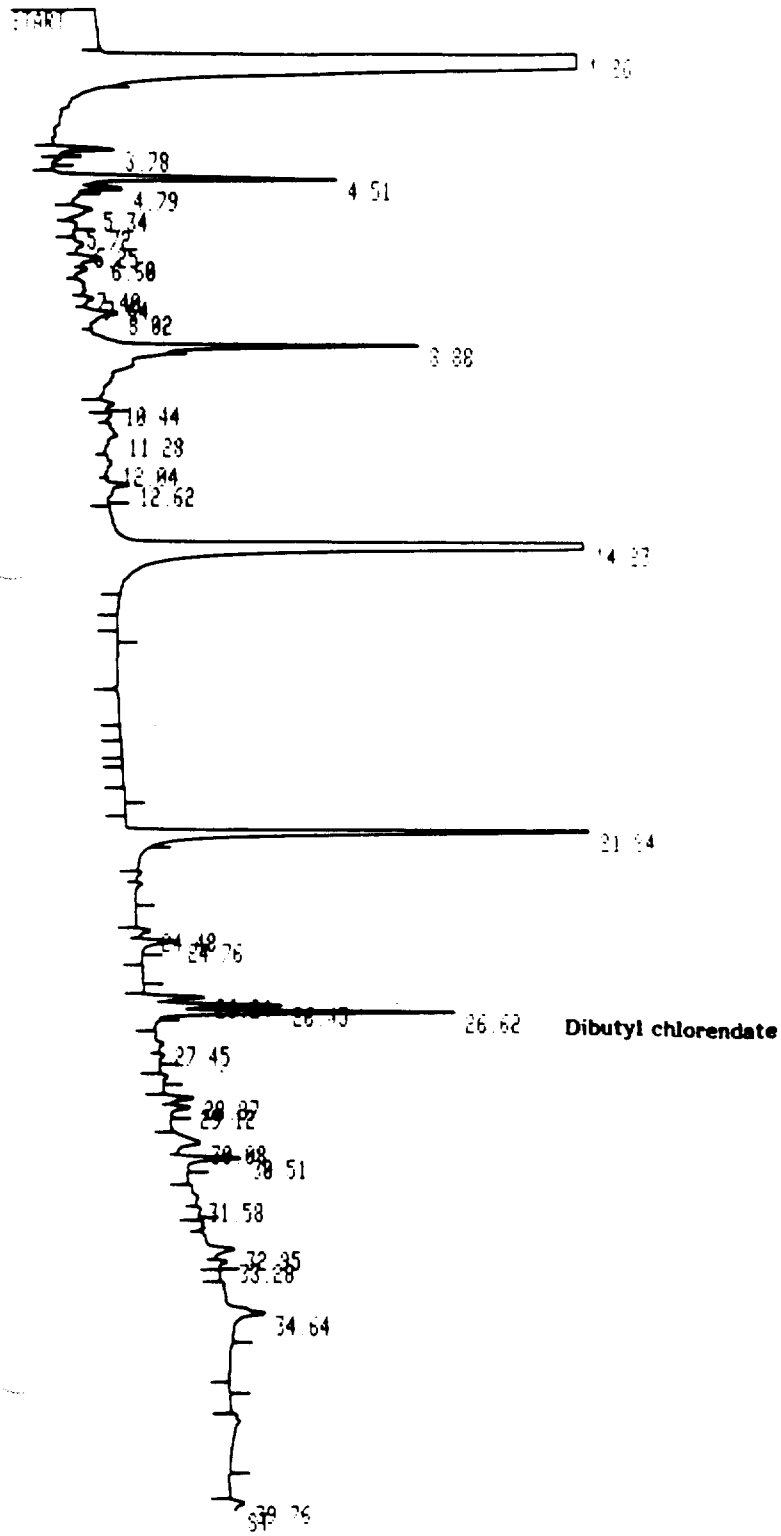
TOTAL AREA= 1.2432E+07
MUL FACTOR= 1.0000E+00

CAPILLARY COLUMN-CONFIRMATION

INSTRUMENT: H-P 5890A GC; H-P 7673A Autosampler; H-P 3392A Integrator. **COLUMN:** 30 m long x .25 mm ID fused silica capillary DB-5, 0.25 micrometer film thickness (J&W Scientific) ; helium carrier gas at 1.1 mL/min at 270C and 25 psi; splitless mode; septum purge at 5.5 mL/min; total flow at 27 mL/min; 5% methane/ 95% argon as make-up gas. **CONDITIONS:** Injector at 180C; column temperature programmed with an initial 2 min. hold at 160C and ramped at 3.5C/min to 270C, held for a final 6.5 minutes; detector at 300C. **VOLUME INJECTED:** 2.0 microliters.

Sample Description: 7353

Lab No: 493433 (No Dilution)



RUN # 465 SEP/30/86 17:06:13
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 9

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.26	3038500	BB	0.246	25.897
3.78	20268	PB	0.098	0.173
4.51	110680	PV	0.112	0.943
4.79	19193	VB	0.110	0.164
5.34	15849	BP	0.199	0.135
5.72	2724	PB	0.129	0.023
6.25	6625	BV	0.180	0.057
6.60	15051	VV	0.155	0.128
7.40	7723	PV	0.287	0.066
7.64	6178	VP	0.138	0.053
8.02	21136	PP	0.181	0.180
8.88	57428	PB	0.059	0.490
10.44	4965	BB	0.121	0.042
11.28	14996	VP	0.337	0.128
12.04	7738	PP	0.267	0.066
12.62	13933	PB	0.169	0.119
14.23	7798100	PB	0.077	66.463
21.84	231490	PB	0.120	1.973
24.48	5289	BV	0.112	0.045
24.76	17958	VB	0.128	0.153
26.24	22131	PV	0.107	0.189
26.45	49805	VV	0.107	0.425
26.62	97524	VB	0.091	0.831
27.45	3586	PV	0.140	0.031
28.87	11990	PV	0.118	0.102
29.12	9966	VB	0.125	0.085
30.08	21479	BP	0.237	0.183
30.51	24549	PB	0.116	0.209
31.58	5623	PV	0.269	0.048
32.95	17129	PV	0.186	0.146
33.28	4790	VB	0.112	0.041
34.64	39762	BB	0.294	0.339
39.76	8904	I BH	0.180	0.076

TOTAL AREA= 1.1733E+07
MUL FACTOR= 1.0000E+00

EXTRACT CONTROL FORM (WATERS)

CEC JOB #	ANALYST	DATE	METHOD	CASE
251247	CLP	9-18-86	EPA	—

SOLVENT	LOT #	LOCATION	TRAY #
Hexane	AN707	freezer #6	shelf #1

CEC #	CLIENT ID	VOLUME	PH	FINAL VOLUME BN	ACID	PEST
1 493428	7332	750ml	6.4			10.0ml
2 493428 DUP	7332 DUP	750ml	6.4			10.0ml
3 493429	7333	1000ml	6.8			10.0ml
4 493430	7334	850ml	5.0			10.0ml
5 493431	7346	750ml	7.2			10.0ml
6 493432	7335	1000ml	6.3			10.0ml
7 493433	7353	1000ml	6.5			10.0ml
8 493434	7341	1000ml	6.3			10.0ml
9 493435	7342	1000ml	6.6			10.0ml
10 493436	7344	1000ml	6.8			10.0ml
11 493437	7345	1000ml	6.9			10.0ml
12 493431 MS	7346 MS	750ml	7.2			10.0ml

QUALITY CONTROL INFORMATION

BN SURROGATE SPIKE #		AMOUNT	CONC.
BN MATRIX SPIKE #		AMOUNT	CONC.
PEST SURROGATE SPIKE #	41024	AMOUNT 1.0ml	CONC. 1ppm DBC
PEST MATRIX SPIKE #	41064	AMOUNT 1.0ml	CONC. 0.2+0.5ppm

NOTES

EXTRACT CONTROL FORM (WATERS)

CEC JOB #	ANALYST	DATE	METHOD	CASE
125247	CLP	9-18-86	EPA	—

SOLVENT	LOT #	LOCATION	TRAY #
Hexane	[illegible]	Freezer #16	Shelf 1

CEC #	CLIENT ID	VOLUME	PH	FINAL VOLUME BN	FINAL VOLUME ACID	FINAL VOLUME PEST
1 mblank/w	—	1000ml	6.8			10.0ml
2						
3						
4						
5						
6						
7						
10						
11						

QUALITY CONTROL INFORMATION

BN SURROGATE SPIKE #		AMOUNT	CONC.
BN MATRIX SPIKE #		AMOUNT	CONC.
PEST SURROGATE SPIKE #	41024	AMOUNT 10ml	CONC. 100mDBC
PEST MATRIX SPIKE #		AMOUNT	CONC.

NOTES

EXTRACT CONTROL FORM OILS

CEC JOB #	ANALYST	DATE	METHOD	CASE
12512-47	CLP	9-25-86	—	—

SOLVENT	LOT #	LOCATION	TRAY #
HEXANE	AN705	Freezer #6	Shelf 1

	CEC #	CLIENT ID	SAMPLE WET WT.	%MSTR	SAMPLE DRY WT.	FINAL VOLUME ABN	FINAL VOLUME PEST	pH
1	443344	7334	1.54g	-	1.54g		5.0mls	
2	443344DUP	7334DUP	1.50g	-	1.50g		5.0mls	
3	443349MS	7334MS	1.52g	-	1.52g		5.0mls	
4	mblank	—	1.50g		1.50g		5.0mls	
5								
6								
7								
8								
9								
10								
11								
12								

QUALITY CONTROL INFORMATION

ABN SURROGATE SPIKE #		AMOUNT	CONC.
ABN MATRIX SPIKE #		AMOUNT	CONC.
PEST SURROGATE SPIKE #	20864	AMOUNT 50ul	CONC. 20ppm
PEST MATRIX SPIKE #	41095	AMOUNT 100ul	CONC. 2.0ppm

NOTES

EXTRACT CONTROL FORM (WATERS)

CEC JOB #	ANALYST	DATE	METHOD	CASE
251247	CLP	9-18-86	EPA	—

SOLVENT	LOT #	LOCATION	TRAY #
Hexane	AN3007	Refrigerator	Shelf #1

CEC #	CLIENT ID	VOLUME	PH	FINAL VOLUME BN	FINAL VOLUME ACID	FINAL VOLUME PEST
1 493428	7332	750 ml	6.4			10.0 ml
2 493428 DUP	7332 DUP	750 ml	6.4			10.0 ml
3 493429	7333	1000 ml	6.8			10.0 ml
4 493430	7334	850 ml	5.0			10.0 ml
5 493431	7346	750 ml	7.2			10.0 ml
6 493432	7335	1000 ml	6.3			10.0 ml
7 493433	7353	1000 ml	6.5			10.0 ml
8 493434	7341	1000 ml	6.3			10.0 ml
9 493435	7342	1000 ml	6.6			10.0 ml
10 493436	7344	1000 ml	6.8			10.0 ml
11 493437	7345	1000 ml	6.9			10.0 ml
12 493431 MS	7346 MS	750 ml	7.2			10.0 ml

QUALITY CONTROL INFORMATION

BN SURROGATE SPIKE #		AMOUNT	CONC.
BN MATRIX SPIKE #		AMOUNT	CONC.
PEST SURROGATE SPIKE #	41024	AMOUNT 1.0 ml	CONC. [illegible]
PEST MATRIX SPIKE #	41064	AMOUNT 1.0 ml	CONC. [illegible]

NOTES

2 2 005-03 0634

EXTRACT CONTROL FORM (WATERS)

CEC JOB #	ANALYST	DATE	METHOD	CASE
12512-47	CLP	9-18-86	EPA	—

SOLVENT	LOT #	LOCATION	TRAY #
Hexane	AN707	Freezer #16	Shelf #1

	CEC #	CLIENT ID	VOLUME	PH	FINAL VOLUME BN	ACID	PEST
1	m blank L/W	—	1000 ml	6.8			10 ml
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

QUALITY CONTROL INFORMATION

BN SURROGATE SPIKE #		AMOUNT	CONC.
BN MATRIX SPIKE #		AMOUNT	CONC.
PEST SURROGATE SPIKE #	41024	AMOUNT 10 ml	CONC. 1ppm DBC
PEST MATRIX SPIKE #		AMOUNT	CONC.

NOTES

2 2 0635
005-05

EXTRACT CONTROL FORM OILS

CEC JOB #	ANALYST	DATE	METHOD	CASE
12512-47	CLP	9-25-86	—	—

SOLVENT	LOT #	LOCATION	TRAY #
HEXANE	AN705	Freezer #6	Sheibel

CEC #	CLIENT ID	SAMPLE WET WT.	%MSTR	SAMPLE DRY WT.	FINAL VOLUME ABN	FINAL VOLUME PEST	pH
1 439 T.O. ~~493349~~	7334	1.54g	-	1.54g		5.0mls	
2 439 T.O. ~~493349~~ DUP	7334 DUP	1.50g	-	1.50g		5.0mls	
3 439 T.O. ~~493349~~ MS	7334 MS	1.52g	-	1.52g		5.0mls	
4 m blank	—	1.50g		1.50g		0.8 ml T.O. ~~5.0mls~~	
5							
6							
7							
8							
9							
10							
11							
12							

QUALITY CONTROL INFORMATION

ABN SURROGATE SPIKE # _____ AMOUNT _____ CONC. _____

ABN MATRIX SPIKE # _____ AMOUNT _____ CONC. _____

PEST SURROGATE SPIKE # 20864 AMOUNT 50ul CONC. 20ppm

PEST MATRIX SPIKE # 41095 AMOUNT 100ul CONC. 2.0+5.0ppm

NOTES

All samples were passed through GPC

012-01
2 2 0636

GC/MS TUNING AND MASS CALIBRATION

Decafluorotriphenylphosphine (DFTPP)

Client ~~Case No.~~ Enviresponse Contractor Clayton Env.

Instrument ID 1-A Date / Time 9/05/86 8:11

Lab ID >A5983::88 Data Release Authorized By: [signature]
Scans Used 801

m/z	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	43.89 OK
68	less than 2.0% of mass 69	0.00 OK (0.00) #1
69	mass 69 relative abundance	66.88
70	less than 2.0% of mass 69	0.00 OK (0.00) #1
127	40.0 - 60.0% of mass 198	58.21 OK
197	less than 1.0% of mass 198	0.00 OK
198	base peak, 100% relative abundance	100.00 OK
199	5.0 - 9.0% of mass 198	6.99 OK
275	10.0 - 30.0% of mass 198	21.26 OK
365	greater than 1.00% of mass 198	1.74 OK
441	present, but less than mass 443	8.04 OK
442	greater than 40.0% of mass 198	52.16 OK
443	17.0 - 23.0% of mass 442	9.54 OK (18.28) #2

#1 - value is % mass 69 #2 - value is % mass 442

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS, AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS	
50ng B/N STD.	>A5985	9/5/86	10:33	✓
160ng ACID STD	>A5986	9/5/86	11:32	✓
120ng ACID STD.	>A5987	9/5/86	12:30	✓
80ng ACID STD.	>A5988	9/5/86	13:28	✓
20ng ACID STD.	>A5989	9/5/86	14:26	✓
160ng B/N STD	>A5990	9/5/86	15:26	✓
120ng B/N STD	>A5991	9/5/86	16:25	✓
80ng B/N STD	>A5992	9/5/86	17:24	✓
20ng B/N STD.	>A5993	9/5/86	18:23	

Analyst MW
Checked by _____ FORM V 7/85

012-02
2 2 0637

GC/MS TUNING AND MASS CALIBRATION
Decafluorotriphenylphosphine (DFTPP)

Client ~~Case No.~~ Enviresponse Contractor Clayton Environmental Contract No. NA

Instrument ID 1A Date 9/22/86 Time 7:50

Lab ID >A6073 Data Release Authorized By: [signature]

Scans 804+805

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	47.3
68	less than 2.0% of mass 69	0 (0)[1]
69	mass 69 relative abundance	67.0
70	less than 2.0% of mass 69	0 (0)[1]
127	40.0 - 60.0% of mass 198	54.3
197	less than 1.0% of mass 198	0.54
198	base peak, 100% relative abundance	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	23.8
365	greater than 1.00% of mass 198	2.84
441	present, but less than mass 443	11.9
442	greater than 40.0% of mass 198	79.4
443	17.0 - 23.0% of mass 442	14.6 (18.4)[2]

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

[1] Value in parenthesis is % mass 69.
[2] Value in parenthesis is % mass 442.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
50ng BNA STD	>A6076 50ng BNA STD.	9/22/86	11:43
M-BLK I 1/w	>A6077 M-BLANK I 1/w	9/22/86	13:13
7332-	>A6078 493428	9/22/86	14:26
7332-DUP	>A6079 493428 (DUP)	9/22/86	15:25
7333-	>A6080 493429	9/22/86	16:24
7346-	>A6082 493431	9/22/86	18:21
7346-MS	>A6083 493431 MS	9/22/86	19:19

012-03

GC/MS TUNING AND MASS CALIBRATION
Decafluorotriphenylphosphine (DFTPP)

2 2 0638

Client ~~Case No.~~ Enviresponse Contractor Clayton Environmental Contract No. N/A

Instrument ID #1-A Date 9/22/86 Time 20:28

Lab ID >A6084 Data Release Authorized By: [signature]

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	32.2
68	less than 2.0% of mass 69	0 (0)[1]
69	mass 69 relative abundance	51.1
70	less than 2.0% of mass 69	0 (0)[1]
127	40.0 - 60.0% of mass 198	50.4
197	less than 1.0% of mass 198	0
198	base peak, 100% relative abundance	100
199	5.0 - 9.0% of mass 198	6.65
275	10.0 - 30.0% of mass 198	26.1
365	greater than 1.00% of mass 198	2.41
441	present, but less than mass 443	9.93
442	greater than 40.0% of mass 198	60.3
443	17.0 - 23.0% of mass 442	10.9 (18.1)[2] ✓

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

[1] Value in parenthesis is % mass 69.
[2] Value in parenthesis is % mass 442.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
50ng BNA STD	>A6085 50ng BNA STD.	9/22/86	21:10
7335-	>A6086 (493432)	9/22/86	23:53
7353-	>A6087 (493433)	9/23/86	00:52
7342-	>A6089 (493435)	9/23/86	02:50
7344-	>A6090 (493436)	9/23/86	03:48
7334-	>A6092 (493430)	9/23/86	05:44

012-04
2 2 0639

GC/MS TUNING AND MASS CALIBRATION
Decafluorotriphenylphosphine (DFTPP)

Client ~~Case No.~~ EnviResponse Contractor: CLAYTON ENVIRONMENTAL CONSULTANTS, INC. Project No. N/A

Instrument ID #1A Date 9/23/86 Time 8:53

Lab ID A6093 Data Release Authorized By: [signature]

scan 801

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	31.2
68	less than 2.0% of mass 69	0 (0)[1]
69	mass 69 relative abundance	49.8
70	less than 2.0% of mass 69	0 (0)[1]
127	40.0 - 60.0% of mass 198	52.1
197	less than 1.0% of mass 198	0
198	base peak, 100% relative abundance	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	24.8
365	greater than 1.00% of mass 198	3.03
441	present, but less than mass 443	13.8
442	greater than 40.0% of mass 198	83.6
443	17.0 - 23.0% of mass 442	15.8 (18.9)[2]

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

[1] Value in parenthesis is % mass 69.
[2] Value in parenthesis is % mass 442.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
50ng BVA STD	A6098	9/23/86	15:12
7341	A6100 (493434)	9/23/86	18:26

2 2 0640

012-05

GC/MS TUNING AND MASS CALIBRATION
Decafluorotriphenylphosphine (DFTPP)

Client: ~~Case No.~~ Enviresponse Contractor CLAYTON ENVIRONMENTAL CONSULTANTS, INC. Contract No. N/A

Instrument ID 1A Date 9/24/86 Time 7:59

Lab ID >A6103 Data Release Authorized By: [signature]

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	39.4
68	less than 2.0% of mass 69	0 (0)[1]
69	mass 69 relative abundance	56.8
70	less than 2.0% of mass 69	0 (0)[1]
127	40.0 - 60.0% of mass 198	52.4
197	less than 1.0% of mass 198	0.78
198	base peak, 100% relative abundance	100
199	5.0 - 9.0% of mass 198	8.06
275	10.0 - 30.0% of mass 198	24.5
365	greater than 1.00% of mass 198	2.52
441	present, but less than mass 443	11.0
442	greater than 40.0% of mass 198	67.0
443	17.0 - 23.0% of mass 442	12.8 (19.1)[2] ✓

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

[1]Value in parenthesis is % mass 69.
[2]Value in parenthesis is % mass 442.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
50ng BNA STD	50ng BNA STD. >A6104	9/24/86	08:36
7345-	493437 >A6109	9/24/86	14:45

2 2 0641

Clayton Environmental Consultants

GC/MS TUNING AND MASS CALIBRATION
Decafluorotriphenylphosphine (DFTPP)

Client ~~Case No.~~ Enviresponse Contractor: CLAYTON ENVIRONMENTAL CONSULTANTS, INC. Contract No. N/A

Instrument ID 1A Date 9/26/86 Time 8:03

Lab ID 246135 Data Release Authorized By: Daryl [illegible]

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	38.7
68	less than 2.0% of mass 69	0 (0)[1]
69	mass 69 relative abundance	57.3
70	less than 2.0% of mass 69	0 (0)[1]
127	40.0 - 60.0% of mass 198	55.8
197	less than 1.0% of mass 198	0.36
198	base peak, 100% relative abundance	100
199	5.0 - 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	25.4
365	greater than 1.00% of mass 198	2.45
441	present, but less than mass 443	13.5
442	greater than 40.0% of mass 198	84.8
443	17.0 - 23.0% of mass 442	15.5 (17.3)[2]

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

[1] Value in parenthesis is % mass 69.
[2] Value in parenthesis is % mass 442.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
50ng BNA STD	BNA 50ng STD. 246137	9/26/86	10:55
M-BLK I (oil)	MECL2 BLK (for oil) 246141	9/26/86	15:4[illegible]

7/85

2 2 0642 012-07

Clayton Environmental Consultants

GC/MS TUNING AND MASS CALIBRATION

Decafluorotriphenylphosphine (DFTPP)

Client ~~Case No.~~ Enviresponse Contractor CLAYTON ENVIRONMENTAL CONSULTANTS, INC. Contract No. NA

Instrument ID 1A Date 9/29/86 Time 8:12

Lab ID 2A6163 Data Release Authorized By: Daryl Strandtmann

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	41.3
68	less than 2.0% of mass 69	0 (0)[1]
69	mass 69 relative abundance	61.8
70	less than 2.0% of mass 69	0 (0)[1]
127	40.0 - 60.0% of mass 198	57.9
197	less than 1.0% of mass 198	0
198	base peak, 100% relative abundance	100
199	5.0 - 9.0% of mass 198	7.4
275	10.0 - 30.0% of mass 198	24.5
365	greater than 1.00% of mass 198	2.4
441	present, but less than mass 443	12.8
442	greater than 40.0% of mass 198	84.8
443	17.0 - 23.0% of mass 442	17.2 (20.3)[2]

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

[1] Value in parenthesis is % mass 69.
[2] Value in parenthesis is % mass 442.

✓ JG

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
50ug BNA STD	A6165	9/29/86	11:28
7334-	A6168 (493439) (Oil 1/10)	9/29/86	16:54
7334-DUP	A6169 (493439 Dup) (Oil 1/10)	9/29/86	18:00
7334-MS	A6170 (493439MS) (Oil 1/10)	9/29/86	18:55

Laboratory Name: CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

Case No: _____

2 2 0643

LABORATORY GENERATED INSTRUMENT LIMIT OF DETECTION

Organics Analysis Data Sheet
(Page 2)

019-02

Instrument 1A

Semivolatile Compounds /Priority Pollutants

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: _____

Date Analyzed: 5/21/86

Conc/Dil Factor: _____

Percent Moisture (Decanted) _____

GPC Cleanup ☐Yes ☐No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		* (ng) ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	11 N
108-95-2	Phenol	7
111-44-4	bis(-2-Chloroethyl)Ether	5
95-57-8	2-Chlorophenol	4
541-73-1	1, 3-Dichlorobenzene	6
106-46-7	1, 4-Dichlorobenzene	6
95-50-1	1, 2-Dichlorobenzene	8
39638-32-9	bis(2-chloroisopropyl)Ether	7
621-64-7	N-Nitroso-Di-n-Propylamine	4
67-72-1	Hexachloroethane	2
98-95-3	Nitrobenzene	9
78-59-1	Isophorone	7
88-75-5	2-Nitrophenol	2
105-67-9	2, 4-Dimethylphenol	8
111-91-1	bis(-2-Chloroethoxy)Methane	5
120-83-2	2, 4-Dichlorophenol	5
120-82-1	1 2, 4-Trichlorobenzene	3
91-20-3	Naphthalene	6
87-68-3	Hexachlorobutadiene	5
59-50-7	4-Chloro-3-Methylphenol	6
77-47-4	Hexachlorocyclopentadiene	8
88-06-2	2, 4 6-Trichlorophenol	8
91-58-7	2-Chloronaphthalene	9
131-11-3	Dimethyl Phthalate	6
208-96-8	Acenaphthylene	5

CAS Number		* (ng) ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	6
51-28-5	2, 4-Dinitrophenol	18
100-02-7	4-Nitrophenol	14
121-14-2	2, 4-Dinitrotoluene	6
606-20-2	2, 6-Dinitrotoluene	6
84-66-2	Diethylphthalate	4
7005-72-3	4-Chlorophenyl-phenylether	3
86-73-7	Fluorene	5
534-52-1	4, 6-Dinitro-2-Methylphenol	19
86-30-6	N-Nitrosodiphenylamine (1)	3
101-55-3	4-Bromophenyl-phenylether	3
118-74-1	Hexachlorobenzene	3
87-86-5	Pentachlorophenol	14
85-01-8	Phenanthrene	3
120-12-7	Anthracene	4
84-74-2	Di-n-Butylphthalate	5
206-44-0	Fluoranthene	8
92-87-5	Benzidine	160 N
129-00-0	Pyrene	10
85-68-7	Butylbenzylphthalate	6
91-94-1	3, 3'-Dichlorobenzidine	28 N
56-55-3	Benzo(a)Anthracene	5
117-81-7	bis(2-Ethylhexyl)Phthalate	8
218-01-9	Chrysene	4
117-84-0	Di-n-Octyl Phthalate	6
205-99-2	Benzo(b)Fluoranthene	11 N
207-08-9	Benzo(k)Fluoranthene	9
50-32-8	Benzo(a)Pyrene	3
193-39-5	Indeno(1, 2, 3-cd)Pyrene	13 N
53-70-3	Dibenz(a, h)Anthracene	16 N
191-24-2	Benzo(g, h, i)Perylene	17 N

*ng injected is equivalent to ug/L for low level water

(1)-Cannot be separated from diphenylamine

POOR LEGIBILITY

PORTIONS OF THIS DOCUMENT MAY BE UNREADABLE, DUE TO THE QUALITY OF THE ORIGINAL

021-01

Calibration Report

Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST + priority pollutants

Calibrated: 860924 13:46

	A5989		A5988	A5987	A5986			
Files:	>A5993	>A5995	>A5992	>A5991	>A5990			
	RF	RF	RF	RF	RF			
Compound	20.00	50.00	80.00	120.00	160.00	RRT	RF	% RSD
N-NITROSO DIMETHYL AMINE	.39727	.40640	.41450	.39461	.43484	.581	.40952	3.923
PHENOL	1.74699	1.67497	1.78485	1.81480	1.99884	.938	1.80409	6.694
ANILINE	1.95444	1.91894	2.06719	1.98010	2.14394	.922	2.01292	4.542
BIS (2-CHLOROETHYL) ETHER	1.72643	1.72785	1.72401	1.76893	1.82157	.953	1.75376	2.408
2-CHLOROPHENOL	1.50398	1.54621	1.59136	1.43179	1.67511	.952	1.42969	10.165
1,3-DICHLOROBENZENE	1.52282	1.52347	1.51620	1.51236	1.54787	.988	1.52454	.908
1,4-DICHLOROBENZENE	1.56572	1.55925	1.57690	1.64558	1.70152	1.005	1.61171	5.709
BENZYL ALCOHOL	.32170	.53548	.42755	.54520	.47180	1.058	.46035	19.813
1,2-DICHLOROBENZENE	1.43464	1.41445	1.39576	1.44427	1.46915	1.056	1.42965	2.280
2-METHYLPHENOL	1.20342	1.25984	1.26626	1.34827	1.49819	1.103	1.31520	8.714
BIS (2-CHLOROISOPROPYL) ETHER	1.25152	1.22056	1.15958	1.14195	1.24265	1.108	1.20325	4.121
4-METHYLPHENOL	1.15354	1.16013	1.21765	1.26974	1.44662	1.147	1.24954	9.593
N-NITROSO-DI-n-PROPYLAMINE	1.02272	.99952	.99556	.99732	1.07988	1.148	1.01966	3.559
HEXACHLOROETHANE	.62553	.62240	.65418	.64684	.66872	1.143	.64353	3.038
2-FLUOROPHENOL (SS)	1.46297	1.54721	1.46860	1.41636	1.48597	.686	1.45582	3.872	(Conc=200.0,200.0,200.0,200.0,200.
PHENOL-D5 (SS)	1.69795	1.53244	1.68564	1.61600	1.75801	.935	1.65801	5.214	(Conc=200.0,200.0,200.0,200.0,200.
NITROBENZENE	.42204	.40482	.39988	.39642	.40152	.854	.40695	3.625
ISOPHORONE	.77006	.76486	.77712	.79869	.79016	.907	.78018	1.800
NITROBENZENE	.15886	.16490	.17287	.18599	.21955	.924	.17999	13.289
2,4-DIMETHYLPHENOL	.27095	.28401	.28317	.29747	.35557	.946	.29823	11.200
BENZOIC ACID	-	.12100	.10217	.13156	.17809	.980	.13517	24.245	(Conc=,80.0,,,)
BIS(2-CHLOROETHOXY)METHANE	.49919	.50973	.49766	.50326	.49969	.968	.50191	.963
2,4-DICHLOROPHENOL	.23809	.25178	.23966	.25288	.31142	.976	.25717	12.345
1,2,4-TRICHLOROBENZENE	.28121	.30709	.28787	.29649	.29334	.994	.29320	3.306
NAPHTHALENE	1.06755	1.09958	1.08524	1.09156	1.09442	1.004	1.08759	1.144
4-CHLOROANILINE	.35585	.38981	.36660	.39802	.38701	1.031	.37946	4.624
HEXACHLOROBUTADIENE	.13447	.15884	.16846	.17556	.17067	1.055	.16960	2.574
4-CHLORO-3-METHYLPHENOL	.21763	.26701	.24872	.26749	.32796	1.152	.26576	15.146
2-METHYLNAPHTHALENE	.59755	.64406	.57755	.60154	.60511	1.166	.60412	4.109
NITROBENZENE-D5 (SS)	.38627	.37686	.40873	.38854	.39835	.850	.39175	3.111	(Conc=100.0,100.0,100.0,100.0,100.
HEXACHLOROCYCLOPENTADIENE	.51125	.55804	.57589	.56147	.58492	.866	.55592	8.546
2,4,6-TRICHLOROPHENOL	.23633	.25766	.25875	.30184	.37852	.881	.28662	19.753
2,4,5-TRICHLOROPHENOL	- -	.55813	.57862	.57254	.46255	.885	.49891	12.290	(Conc=,80.0,,,)
2-CHLORONAPHTHALENE	1.26560	1.26707	1.28054	1.25039	1.25625	.905	1.26397	.912
2-NITROANILINE	.25488	.30130	.29727	.32357	.32865	.955	.30135	9.692	(Conc=,80.0,,,)
DIMETHYL PHTHALATE	1.18774	.15076	1.21222	1.24238	1.22810	.981	1.00424	47.553
ACENAPHTHYLENE	1.99548	2.06598	2.07045	2.06819	2.06815	.974	2.05162	1.547
3-NITROANILINE	.23309	.27556	.26360	.30686	.30390	1.003	.27620	11.058	(Conc=,80.0,,,)
ACENAPHTHENE	1.12580	1.16041	1.15986	1.16515	1.18858	1.005	1.15792	1.998
2,4-DINITROPHENOL	-	.05275	.04397	.06098	.09088	1.020	.06215	32.788	(Conc=,80.0,,,)
4-NITROPHENOL	.18715	.15262	.15475	.17118	.24508	1.039	.18619	29.584	(Conc=,80.0,,,)
DIBENZOFURAN	1.60032	1.63420	1.60092	1.61386	1.62776	1.032	1.61541	.952
2,4-DINITROTOLUENE	.24708	.28680	.24258	.30659	.29040	1.047	.27465	10.285

RF - Response Factor (Subscript is amount in ng/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

Calibration Report

Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST & priority pollutants

Calibrated: 860924 15:46

Compound	A5989 >A5993 RF 20.00	>A5985 RF 50.00	A5988 >A5992 RF 80.00	A5987 >A5991 RF 120.00	A5986 >A5990 RF 160.00	$\overline{RRT}$	$\overline{RF}$	% RSD	
2,6-DINITROTOLUENE	.22063	.23942	.24012	.25839	.26090	.984	.24389	6.721	
DIETHYL PHTHALATE	1.14767	1.16658	1.14751	1.51295	1.24525	1.096	1.20589	6.069	
4-CHLOROPHENYL-PHENYL ETHER	.52916	.56949	.53449	.59190	.58269	1.097	.56154	5.046	
FLUORENE	1.15678	1.27472	1.18121	1.26268	1.22364	1.090	1.20981	5.418	
4-NITROANILINE	.16654	.18934	.17106	.25025	.23644	1.106	.20273	18.922	(Conc=,80.0,,,)
2-METHYL-4,6-DINITROPHENOL (SS)	1.48981	1.44110	1.56527	1.46984	1.46621	.895	1.48625	5.191	(Conc=100.0,100.0,100.0,100.0,100.
2,4,6-TRIBROMOPHENOL (SS)	.11954	.12380	.11017	.12642	.11851	1.134	.11969	5.189	(Conc=200.0,200.0,200.0,200.0,200.
4,6-DINITRO-2-METHYLPHENOL	-	.06742	.06489	.08658	.10950	.894	.08285	25.097	(Conc=,80.0,,,)
N-NITROSODIPHENYLAMINE	.52870	.58819	.56342	.55320	.52250	.899	.55120	4.844	
4-BROMOPHENYL PHENYL ETHER	.24605	.27510	.08126	.26828	.27152	.946	.26840	4.997	
HEXACHLOROBENZENE	.20845	.23356	.21314	.20813	.20513	.960	.21368	5.370	
PENTACHLOROPHENOL	-	.08108	.08879	.10480	.15761	.986	.10857	27.196	(Conc=,80.0,,,)
PHENANTHRENE	.95405	1.03445	.97428	1.00728	.99688	1.003	.99339	3.104	
ANTHRACENE	1.20778	1.27579	1.17487	1.25840	1.28062	1.009	1.21549	2.559	
DI-n-BUTYL PHTHALATE	1.14622	.95082	.99656	1.25934	1.20107	1.103	1.11080	11.919	
FLUORANTHENE	.84418	.65595	.72831	.92115	.89659	1.165	.80775	14.289	
BENZIDINE	.61682	1.28847	.70862	.84462	.83662	.875	.85903	30.043	
PYRENE	5.80008	4.76868	4.12198	5.69216	5.27715	.876	5.35199	14.159	
BUTYLBENZYL PHTHALATE	1.24645	1.26395	1.33723	1.51570	1.41416	.958	1.35550	8.224	
3,3'-DICHLOROBENZIDINE	.48745	.54275	.54054	.68305	.68128	1.002	.58667	15.249	
BENZO(a)ANTHRACENE	2.58280	2.66652	2.62287	2.68467	2.51449	.999	2.61427	2.616	
BIS(2-ETHYLHEXYL) PHTHALATE	1.56795	1.55888	1.79910	2.07195	1.94807	1.022	1.78199	15.107	
CHRYSENE	2.58286	2.77445	2.60872	2.56535	2.57613	1.002	2.62150	3.318	
TERPHENYL D14 (SS)	2.79222	3.10884	2.96211	2.67058	2.45497	.900	2.79574	9.079	(Conc=100.0,100.0,100.0,100.0,100.
DI-N-OCTYL PHTHALATE	1.37680	1.32069	1.71010	2.04291	1.96896	.953	1.68389	19.630	
BENZO(b)FLUORANTHENE	.73398	1.99454	3.00463	1.27430	3.02389	.972	2.00627	50.995	
BENZO(k)FLUORANTHENE	2.19899	1.99454	3.00463	1.86942	3.02389	.973	2.41829	23.018	
BENZO(a)PYRENE	2.61594	2.65995	2.77526	2.90272	2.84259	.996	2.75885	4.527	
INDENO(1,2,3,cd)PYRENE	1.45986	1.64890	1.64677	1.95814	1.92482	1.087	1.72770	12.157	
DIBENZ(a,h)ANTHRACENE	.85172	1.00948	.98807	1.25554	1.23551	1.098	1.06619	16.527	
BENZO(g,h,i)PERYLENE	1.08951	1.15133	1.23118	1.25493	1.25429	1.111	1.19625	6.121	

RF - Response Factor (Subscript is amount in ug/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

2 2 0646

023-01

Calibration Check Report

Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST + priority pollutants

Calibrated: 860905 19:48

Check Standard Data File: >A6076

Injection Time: 860922 11:43

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
N-NITROSO DIMETHYL AMINE	.40957	.41639	1.66	Average	
PHENOL	1.80409	1.69285	6.17	Average	
ANILINE	2.01292	1.86786	7.21	Average	
BIS (2-CHLOROETHYL) ETHER	1.75376	1.69476	3.36	Average	
2-CHLOROPHENOL	1.42969	1.40569	1.68	Average	
1,3-DICHLOROBENZENE	1.52454	1.56309	2.53	Average	
1,4-DICHLOROBENZENE	1.61171	1.58027	1.95	Average	
BENZYL ALCOHOL	.46035	.67944	47.59	Average	
1,2-DICHLOROBENZENE	1.42965	1.43065	.07	Average	
2-METHYLPHENOL	1.31520	1.26103	4.12	Average	
BIS (2-CHLOROISOPROPYL) ETHER	1.20323	1.14354	4.96	Average	
4-METHYLPHENOL	1.24954	1.21396	2.85	Average	
N-NITROSO-DI-n-PROPYLAMINE	1.01966	.97184	4.69	Average	
HEXACHLOROETHANE	.64353	.63009	2.09	Average	
2-FLUOROPHENOL (SS)	1.43582	1.35600	5.56	Average	(Conc=200.00)
PHENOL-D5 (SS)	1.65801	1.56513	5.60	Average	(Conc=200.00)
NITROBENZENE	.40693	.41802	2.72	Average	
ISOPHORONE	.78018	.73283	6.07	Average	
2-NITROPHENOL	.17999	.15927	11.51	Average	
2,4-DIMETHYLPHENOL	.29823	.27785	6.83	Average	
BENZOIC ACID	.13317	.12174	8.58	Average	(Conc=80.00)
BIS(2-CHLOROETHOXY)METHANE	.50191	.49706	.97	Average	
2,4-DICHLOROPHENOL	.25717	.24614	4.29	Average	
1,2,4-TRICHLOROBENZENE	.29320	.30373	3.59	Average	
NAPHTHALENE	1.08759	1.06528	2.05	Average	
4-CHLOROANILINE	.37946	.38133	.49	Average	
HEXACHLOROBUTADIENE	.16960	.17710	4.42	Average	
4-CHLORO-3-METHYLPHENOL	.26576	.23747	10.65	Average	
2-METHYLNAPHTHALENE	.60412	.59236	1.95	Average	
NITROBENZENE-D5 (SS)	.39175	.39218	.11	Average	(Conc=100.00)
HEXACHLOROCYCLOPENTADIENE	.35392	.35042	.99	Average	
2,4,6-TRICHLOROPHENOL	.28662	.27822	2.93	Average	
2,4,5-TRICHLOROPHENOL	.39091	.32970	15.66	Average	(Conc=80.00)
2-CHLORONAPHTHALENE	1.26397	1.25593	.64	Average	
2-NITROANILINE	.31257	.30913	1.10	Average	(Conc=80.00)
DIMETHYL PHTHALATE	.83746	1.12608	34.46	Average	
ACENAPHTHYLENE	2.05162	2.01004	2.03	Average	
3-NITROANILINE	.28698	.24948	13.07	Average	(Conc=80.00)
ACENAPHTHENE	1.15792	1.13986	1.56	Average	
2,4-DINITROPHENOL	.06215	.06582	5.91	Average	(Conc=80.00)
4-NITROPHENOL	.16619	.14048	15.47	Average	(Conc=80.00)
DIBENZOFURAN	1.61541	1.51966	5.93	Average	
2,4-DINITROTOLUENE	.27465	.28693	4.47	Average	
2,6-DINITROTOLUENE	.24389	.25242	3.49	Average	

RF - Response Factor from daily standard file at 50.00 ug/L

$\overline{RF}$ - Average Response Factor from Initial Calibration

2 2 0647
023-02

Calibration Check Report

Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST + priority pollutants
Calibrated: 860905 19:48

Check Standard Data File: >A6076
Injection Time: 860922 11:43

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
DIETHYL PHTHALATE	1.20389	1.10930	7.86	Average	
4-CHLOROPHENYL-PHENYL ETHER	.56154	.51833	7.70	Average	
FLUORENE	1.20981	1.14200	5.61	Average	
4-NITROANILINE	.20273	.19546	3.58	Average	(Conc=80.00)
2-FLUOROBIPHENYL (SS)	1.48625	1.49284	.44	Average	(Conc=100.00)
2,4,6-TRIBROMOPHENOL (SS)	.11969	.12120	1.26	Average	(Conc=200.00)
4,6-DINITRO-2-METHYLPHENOL	.08205	.06555	20.11	Average	(Conc=80.00)
N-NITROSODIPHENYLAMINE	.55120	.58772	6.63	Average	
4-BROMOPHENYL-PHENYL ETHER	.26840	.26531	1.15	Average	
HEXACHLOROBENZENE	.21368	.23413	9.57	Average	
PENTACHLOROPHENOL	.10057	.08649	14.00	Average	(Conc=80.00)
PHENANTHRENE	.99339	1.01530	2.21	Average	
ANTHRACENE	1.21349	1.20168	.97	Average	
DI-n-BUTYL PHTHALATE	1.11080	1.08894	1.97	Average	
FLUORANTHENE	.80773	.89780	11.15	Average	
BENZIDINE	1.28847	1.26211	2.05	Average	
PYRENE	3.93199	3.86263	1.76	Average	
BUTYLBENZYL PHTHALATE	1.35550	1.14899	15.23	Average	
3,3'-DICHLOROBENZIDINE	.58667	.55396	5.58	Average	
BENZO(a)ANTHRACENE	2.61427	2.77856	6.28	Average	
BIS(2-ETHYLHEXYL) PHTHALATE	1.78199	1.53563	13.82	Average	
CHRYSENE	2.62150	2.65989	1.46	Average	
TERPHENYL-D14 (SS)	2.79574	2.83092	1.26	Average	(Conc=100.00)
DI-N-OCTYL PHTHALATE	1.68389	1.33950	20.45	Average	
BENZO(b)FLUORANTHENE	2.29927	1.27225	44.67	Average	
BENZO(k)FLUORANTHENE	2.41829	1.74849	27.70	Average	
BENZO(a)PYRENE	2.75885	2.81449	2.02	Average	
INDENO(1,2,3,cd)PYRENE	1.72770	1.81176	4.87	Average	
DIBENZ(a,h)ANTHRACENE	1.06619	1.07910	1.21	Average	
BENZO(g,h,i)PERYLENE	1.19625	1.32893	11.09	Average	

RF - Response factor from daily standard file at 50.00 ug/L

$\overline{RF}$ - Average Response Factor from Initial Calibration

2 2 0648
023-03

Calibration Check Report

Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST + priority pollutants
Calibrated: 860905 19:48

Check Standard Data File: >A6085
Injection Time: 860922 21:10

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
N-NITROSO DIMETHYL AMINE	.40957	.42770	4.43	Average	
PHENOL	1.80409	1.77977	1.35	Average	
ANILINE	2.01292	1.97964	1.65	Average	
BIS (2-CHLOROETHYL) ETHER	1.75376	1.74175	.69	Average	
2-CHLOROPHENOL	1.42969	1.45845	2.01	Average	
1,3-DICHLOROBENZENE	1.57454	1.55135	1.76	Average	
1,4-DICHLOROBENZENE	1.61171	1.65548	2.72	Average	
BENZYL ALCOHOL	.46035	.61082	32.70	Average	
1,2-DICHLOROBENZENE	1.42965	1.45123	1.51	Average	
2-METHYLPHENOL	1.51570	1.55637	3.15	Average	
BIS (2-CHLOROISOPROPYL) ETHER	1.20323	1.07942	10.29	Average	
4-METHYLPHENOL	1.24954	1.29675	3.78	Average	
N-NITROSO-DI-n-PROPYLAMINE	1.01966	1.01629	.33	Average	
HEXACHLOROETHANE	.64355	.67589	4.59	Average	
2-FLUOROPHENOL (SS)	1.43582	1.44638	.74	Average	(Conc=200.00)
PHENOL-D5 (SS)	1.65881	1.77485	5.98	Average	(Conc=200.00)
NITROBENZENE	.40693	.41251	1.37	Average	
ISOPHORONE	.78033	.76288	2.23	Average	
2-NITROPHENOL	.17999	.19368	7.61	Average	
2,4-DIMETHYLPHENOL	.22823	.23113	5.73	Average	
BENZOIC ACID	.13317	.17020	27.80	Average	(Conc=80.00)
BIS(2-CHLOROETHOXY)METHANE	.58121	.58954	1.52	Average	
2,4-DICHLOROPHENOL	.25717	.25709	.03	Average	
1,2,4-TRICHLOROBENZENE	.29520	.28714	2.87	Average	
NAPHTHALENE	1.08759	1.09528	.71	Average	
4-CHLOROANILINE	.57946	.59828	4.96	Average	
HEXACHLOROBUTADIENE	.16960	.18002	6.14	Average	
4-CHLORO-3-METHYLPHENOL	.26576	.27188	2.30	Average	
2-METHYLNAPHTHALENE	.60412	.58776	2.71	Average	
NITROBENZENE-D5 (SS)	.39175	.41486	5.90	Average	(Conc=100.00)
HEXACHLOROCYCLOPENTADIENE	.35392	.39707	12.19	Average	
2,4,6-TRICHLOROPHENOL	.28662	.32988	15.09	Average	
2,4,5-TRICHLOROPHENOL	.39091	.37205	4.82	Average	(Conc=80.00)
2-CHLORONAPHTHALENE	1.26397	1.28271	1.48	Average	
2-NITROANILINE	.31257	.34732	11.12	Average	(Conc=80.00)
DIMETHYL PHTHALATE	.33746	1.23354	47.30	Average	
ACENAPHTHYLENE	2.05162	2.08521	1.64	Average	
3-NITROANILINE	.29828	.27433	2.56	Average	(Conc=80.00)
ACENAPHTHENE	1.15792	1.16791	.86	Average	
2,4-DINITROPHENOL	.08215	.12845	57.90	Average	(Conc=80.00)
4-NITROPHENOL	.16619	.18094	8.87	Average	(Conc=80.00)
DIBENZOFURAN	1.51541	1.50398	.89	Average	
2,4-DINITROTOLUENE	.27465	.33376	21.54	Average	
2,6-DINITROTOLUENE	.24589	.27962	13.75	Average	

RF - Response Factor from daily standard file at 50.00 ug/L

$\overline{RF}$ - Average Response Factor from Initial Calibration

2 2 0649 023-04

Calibration Check Report

Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST + priority pollutants

Calibrated: 860905 19:48

Check Standard Data File: >A6085

Injection Time: 860922 21:10

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
DIETHYL PHTHALATE	1.20389	1.20410	.02	Average	
4-CHLOROPHENYL-PHENYL ETHER	.56154	.53855	4.09	Average	
FLUORENE	1.20981	1.20621	.30	Average	
4-NITROANILINE	.20273	.25040	23.52	Average	(Conc=80.00)
2-FLUOROBIPHENYL (SS)	1.48625	1.51200	1.73	Average	(Conc=100.00)
2,4,6-TRIBROMOPHENOL (SS)	.11969	.14374	20.10	Average	(Conc=200.00)
4,6-DINITRO-2-METHYLPHENOL	.09205	.09498	15.77	Average	(Conc=80.00)
N-NITROSODIPHENYLAMINE	.55120	.59901	8.67	Average	
4-BROMOPHENYL-PHENYL ETHER	.26840	.25657	4.41	Average	
HEXACHLOROBENZENE	.21368	.22631	5.91	Average	
PENTACHLOROPHENOL	.10057	.10448	3.80	Average	(Conc=80.00)
PHENANTHRENE	.99339	1.02842	3.53	Average	
ANTHRACENE	1.21349	1.21148	.17	Average	
DI-n-BUTYL PHTHALATE	1.11080	1.24972	12.51	Average	
FLUORANTHENE	.88723	.68913	22.46	Average	
BENZIDINE	1.28847	1.54052	19.56	Average	
PYRENE	1.94199	1.96020	2.17	Average	
BUTYLBENZYL PHTHALATE	1.35550	1.47063	8.49	Average	
3,3'-DICHLOROBENZIDINE	.58657	.61979	2.95	Average	
BENZO(a)ANTHRACENE	2.61427	2.71970	4.03	Average	
BIS(2-ETHYLHEXYL) PHTHALATE	1.78199	1.97621	10.90	Average	
CHRYSENE	2.62150	2.59645	.96	Average	
1,1'-BIPHENYL-D14 (SS)	2.79574	2.67140	4.45	Average	(Conc=100.00)
DI-N-OCTYL PHTHALATE	1.68389	2.09811	24.60	Average	
BENZO(b)FLUORANTHENE	2.39927	1.58704	43.15	Average	
BENZO(k)FLUORANTHENE	2.41829	1.89305	21.72	Average	
BENZO(a)PYRENE	2.75885	2.86760	3.94	Average	
INDENO(1,2,3,cd)PYRENE	1.72770	1.84515	6.80	Average	
DIBENZO(a,h)ANTHRACENE	1.06619	1.18922	11.53	Average	
BENZO(g,h,i)PERYLENE	1.19625	1.20320	.58	Average	

RF Response Factor from daily standard file at 50.00 ug/L

$\overline{RF}$ - Average Response Factor from Initial Calibration

2 2 0650 023-05

Calibration Check Report

Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST + priority pollutants

Calibrated: 860905 19:48

Check Standard Data File: >A6098

Injection Time: 860923 15:12

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
N-NITROSO DIMETHYL AMINE	.40957	.42699	4.25	Average	
PHENOL	1.80409	1.56095	13.48	Average	
ANILINE	2.01292	1.74688	13.22	Average	
BIS (2-CHLOROETHYL) ETHER	1.75576	1.67843	4.75	Average	
2-CHLOROPHENOL	1.42969	1.39452	2.46	Average	
1,3-DICHLOROBENZENE	1.52454	1.51463	.65	Average	
1,4-DICHLOROBENZENE	1.61171	1.54802	3.95	Average	
BENZYL ALCOHOL	.46055	.50869	10.50	Average	
1,2-DICHLOROBENZENE	1.42965	1.38918	2.83	Average	
2-METHYLPHENOL	1.31528	1.24292	5.49	Average	
BIS (2-CHLOROISOPROPYL) ETHER	1.20323	1.01805	15.39	Average	
4-METHYLPHENOL	1.24954	1.19762	4.15	Average	
N-NITROSO-DI-n-PROPYLAMINE	1.01966	.89664	12.06	Average	
HEXACHLOROETHANE	.64355	.63498	1.33	Average	
2-FLUOROPHENOL (SS)	1.43582	1.35505	5.63	Average	(Conc=200.00)
PHENOL-D5 (SS)	1.65881	1.54289	6.96	Average	(Conc=200.00)
NITROBENZENE	.40693	.41376	1.68	Average	
ISOPHORONE	.78019	.69955	10.34	Average	
2-NITROPHENOL	.17999	.18293	1.64	Average	
2,4-DIMETHYLPHENOL	.29823	.27943	6.30	Average	
BENZOIC ACID	.13317	.15501	16.40	Average	(Conc=80.00)
BIS(2-CHLOROETHOXY)METHANE	.50191	.48072	4.22	Average	
2,4-DICHLOROPHENOL	.25717	.24627	4.24	Average	
1,2,4-TRICHLOROBENZENE	.29520	.29937	2.11	Average	
NAPHTHALENE	1.08759	1.04966	3.49	Average	
4-CHLOROANILINE	.37946	.37749	.52	Average	
HEXACHLOROBUTADIENE	.16960	.18525	9.23	Average	
4-CHLORO-3-METHYLPHENOL	.23576	.22958	13.61	Average	
2-METHYLNAPHTHALENE	.60412	.56708	6.13	Average	
NITROBENZENE-D5 (SS)	.39175	.39393	.55	Average	(Conc=100.00)
HEXACHLOROCYCLOPENTADIENE	.35392	.46739	32.06	Average	
2,4,6-TRICHLOROPHENOL	.28662	.31227	8.95	Average	
2,4,5-TRICHLOROPHENOL	.39091	.36690	6.14	Average	(Conc=80.00)
2-CHLORONAPHTHALENE	1.26397	1.33467	5.59	Average	
2-NITROANILINE	.31257	.31133	.40	Average	(Conc=80.00)
DIMETHYL PHTHALATE	.83746	1.39582	58.62	Average	
ACENAPHTHYLENE	2.05162	2.02074	1.51	Average	
3-NITROANILINE	.28698	.34219	19.09	Average	(Conc=80.00)
ACENAPHTHENE	1.15792	1.12591	2.76	Average	
2,4-DINITROPHENOL	.06215	.07551	21.50	Average	(Conc=80.00)
4-NITROPHENOL	.16619	.11766	29.20	Average	(Conc=80.00)
DIBENZOFURAN	1.61541	1.49957	7.18	Average	
2,4-DINITROTOLUENE	.27465	.25383	7.58	Average	
2,6-DINITROTOLUENE	.24599	.24246	1.00	Average	

RF - Response Factor from daily standard file at 50.00 ug/L

$\overline{RF}$ - Average Response Factor from Initial Calibration

2 2 0651

023-06

Calibration Check Report

Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST & priority pollutants

Calibrated: 860905 19:48

Check Standard Data File: >A6098

Injection Time: 860923 15:12

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
DIETHYL PHTHALATE	1.20389	1.04979	12.80	Average	
4-CHLOROPHENYL-PHENYL ETHER	.56154	.49812	11.30	Average	
FLUORENE	1.20981	1.06851	11.70	Average	
4-NITROANILINE	.20273	.14865	26.67	Average	(Conc=80.00)
2-FLUOROBIPHENYL (SS)	1.48625	1.58578	6.66	Average	(Conc=100.00)
2,4,6-TRIBROMOPHENOL (SS)	.11969	.12250	2.35	Average	(Conc=200.00)
4,6-DINITRO-2-METHYLPHENOL	.08285	.08256	.65	Average	(Conc=80.00)
N-NITROSODIPHENYLAMINE	.55120	.60352	9.49	Average	
4-BROMOPHENYL-PHENYL ETHER	.26840	.29828	11.13	Average	
HEXACHLOROBENZENE	.21368	-	-	Average	
PENTACHLOROPHENOL	.10057	.09589	4.66	Average	(Conc=80.00)
PHENANTHRENE	.99339	1.01657	2.33	Average	
ANTHRACENE	1.21349	1.18498	2.35	Average	
DI-n-BUTYL PHTHALATE	1.11080	1.04006	6.37	Average	
FLUORANTHENE	.80775	.76771	4.96	Average	
BENZIDINE	1.28847	.78180	39.32	Average	
PYRENE	5.93199	4.55921	15.95	Average	
BUTYLBENZYL PHTHALATE	1.35550	1.51151	11.51	Average	
3,3'-DICHLOROBENZIDINE	.53667	.45975	21.63	Average	
BENZO(a)ANTHRACENE	2.61427	2.88812	10.48	Average	
BIS(2-ETHYLHEXYL) PHTHALATE	1.78199	1.83089	2.70	Average	
CHRYSENE	2.62150	2.61830	.12	Average	
TERPHENYL-D14 (SS)	2.79574	3.13576	12.16	Average	(Conc=100.00)
DI-n-OCTYL PHTHALATE	1.68389	1.76156	4.61	Average	
BENZO(b)FLUORANTHENE	2.29927	1.24159	46.01	Average	
BENZO(k)FLUORANTHENE	2.41829	1.94902	19.41	Average	
BENZO(a)PYRENE	2.76895	2.82414	2.37	Average	
INDENO(1,2,3,cd)PYRENE	1.72770	1.13839	34.11	Average	
DIBENZO(a,h)ANTHRACENE	1.06619	.98597	7.52	Average	
BENZO(g,h,i)PERYLENE	1.19625	1.13839	4.84	Average	

- Response Factor from daily standard file at 50.00 ug/L

- Average Response Factor from Initial Calibration

2 2 0652

023-07

Calibration Check Report

Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST + priority pollutants

Calibrated: 860924 13:46

Check Standard Data File: >A6104

Injection Time: 860924 08:36

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
N-NITROSO DIMETHYL AMINE	.40957	.55839	36.33	Average	
PHENOL	1.80409	1.70777	5.34	Average	
ANILINE	2.01292	1.85265	7.96	Average	
BIS (2-CHLOROETHYL) ETHER	1.75376	1.79364	2.27	Average	
2-CHLOROPHENOL	1.42969	1.46522	2.48	Average	
1,3-DICHLOROBENZENE	1.52454	1.51314	.75	Average	
1,4-DICHLOROBENZENE	1.61171	1.64822	2.27	Average	
BENZYL ALCOHOL	.46035	.57043	23.91	Average	
1,2-DICHLOROBENZENE	1.42965	1.45447	1.74	Average	
2-METHYLPHENOL	1.31520	1.32956	1.09	Average	
BIS (2-CHLOROISOPROPYL) ETHER	1.20323	1.15310	4.17	Average	
4-METHYLPHENOL	1.24954	1.33236	6.63	Average	
N-NITROSO-DI-n-PROPYLAMINE	1.01966	.99219	2.69	Average	
HEXACHLOROETHANE	.64353	.64993	.99	Average	
2-FLUOROPHENOL (SS)	1.43582	1.34898	6.05	Average	(Conc=200.00)
PHENOL-D5 (SS)	1.65801	1.65783	.01	Average	(Conc=200.00)
NITROBENZENE	.40693	.45040	10.68	Average	
ISOPHORONE	.78018	.76495	1.95	Average	
2-NITROPHENOL	.17999	.19027	5.71	Average	
2,4-DIMETHYLPHENOL	.29823	.28145	5.62	Average	
BENZOIC ACID	.13317	.14887	11.78	Average	(Conc=80.00)
BIS(2-CHLOROETHOXY)METHANE	.50191	.49660	1.06	Average	
2,4-DICHLOROPHENOL	.25717	.24580	4.42	Average	
1,2,4-TRICHLOROBENZENE	.29320	.30044	2.47	Average	
NAPHTHALENE	1.08759	1.06220	2.33	Average	
4-CHLOROANILINE	.37946	.37531	1.09	Average	
HEXACHLOROBUTADIENE	.16960	.18784	10.76	Average	
4-CHLORO-3-METHYLPHENOL	.26576	.24474	7.91	Average	
2-METHYLNAPHTHALENE	.60412	.60204	.34	Average	
NITROBENZENE-D5 (SS)	.39175	.42074	7.40	Average	(Conc=100.00)
HEXACHLOROCYCLOPENTADIENE	.35392	.42654	20.52	Average	
2,4,6-TRICHLOROPHENOL	.28662	.30906	7.83	Average	
2,4,5-TRICHLOROPHENOL	.39091	.35607	8.91	Average	(Conc=80.00)
2-CHLORONAPHTHALENE	1.26397	1.31108	3.73	Average	
2-NITROANILINE	.30103	.34234	13.72	Average	(Conc=80.00)
DIMETHYL PHTHALATE	1.00424	1.16876	16.38	Average	
ACENAPHTHYLENE	2.05162	2.06517	.66	Average	
3-NITROANILINE	.27620	.22598	18.18	Average	(Conc=80.00)
ACENAPHTHENE	1.15792	1.16857	.92	Average	
2,4-DINITROPHENOL	.06215	.06644	6.91	Average	(Conc=80.00)
4-NITROPHENOL	.16619	.11663	29.82	Average	(Conc=80.00)
DIBENZOFURAN	1.61541	1.56241	3.28	Average	
2,4-DINITROTOLUENE	.27465	.24947	9.17	Average	
2,6-DINITROTOLUENE	.24329	.25013	2.56	Average	

RF - Response Factor from daily standard file at 50.00 ug/L

$\overline{RF}$ - Average Response Factor from Initial Calibration

2 2 0653
023-08

Calibration Check Report

Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST & priority pollutants
Calibrated: 860924 13:46

Check Standard Data File: >A6104
Injection Time: 860924 08:36

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
DIETHYL PHTHALATE	1.20389	1.01201	15.94	Average	
4-CHLOROPHENYL-PHENYL ETHER	.56154	.50203	10.60	Average	
FLUORENE	1.20981	1.10134	8.97	Average	
4-NITROANILINE	.20273	.12134	40.15	Average	(Conc=80.00)
2-FLUOROBIPHENYL (SS)	1.48625	1.54606	4.02	Average	(Conc=100.00)
2,4,6-TRIBROMOPHENOL (SS)	.11969	.11095	7.30	Average	(Conc=200.00)
4,6-DINITRO-2-METHYLPHENOL	[illegible]	[illegible]	4.46	Average	(Conc=80.00)
N-NITROSODIPHENYLAMINE	.55120	.64610	17.22	Average ✓	
4-BROMOPHENYL-PHENYL ETHER	.26840	.30431	13.38	Average	
HEXACHLOROBENZENE	.21368	.24811	16.11	Average	
PENTACHLOROPHENOL	.10057	[illegible]	11.39	Average ✓	(Conc=80.00)
PHENANTHRENE	.99339	1.03690	4.38	Average	
ANTHRACENE	1.21349	1.22685	1.10	Average	
DI-n-BUTYL PHTHALATE	1.11080	.96107	13.48	Average	
FLUORANTHENE	.80773	.65577	18.81	Average ✓	
BENZIDINE	.85903	.47029	45.25	Average	
PYRENE	3.93199	5.33375	35.65	Average	
BUTYLBENZYL PHTHALATE	1.35550	1.45876	7.62	Average	
3,3'-DICHLOROBENZIDINE	.58667	.36250	38.21	Average	
BENZO(a)ANTHRACENE	2.61427	2.72103	4.08	Average	
BIS(2-ETHYLHEXYL) PHTHALATE	1.78199	1.56025	12.44	Average	
CHRYSENE	2.62150	2.53031	3.48	Average	
TERPHENYL D14 (SS)	2.79574	3.41948	22.31	Average	(Conc=100.00)
DI-N-OCTYL PHTHALATE	1.68389	1.64303	2.43	Average ✓	
BENZO(b)FLUORANTHENE	2.00627	1.26467	36.96	Average	
BENZO(k)FLUORANTHENE	2.41829	1.86772	22.77	Average	
BENZO(a)PYRENE	2.75885	2.80194	1.56	Average ✓	
INDENO(1,2,3,cd)PYRENE	1.72770	1.25267	27.49	Average	
DIBENZ(a,h)ANTHRACENE	1.06619	.95597	10.34	Average	
BENZO(g,h,i)PERYLENE	1.19625	1.25267	4.72	Average	

RF - Response Factor from daily standard file at 50.00 ug/L

$\overline{RF}$ - Average Response Factor from Initial Calibration

2 2 0654023-09

Calibration Check Report +

Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST + priority pollutants

Calibrated: 860924 13:46

Check Standard Data File: >A6137

Injection Time: 860926 10:55

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
N-NITROSO DIMETHYL AMINE	.40957	.45406	10.86	Average	
PHENOL	1.80409	1.70546	5.47	Average	
ANILINE	2.01292	1.78209	11.47	Average	
BIS (2-CHLOROETHYL) ETHER	1.75376	1.71550	2.18	Average	
2-CHLOROPHENOL	1.42969	1.46178	2.24	Average	
1,3-DICHLOROBENZENE	1.52454	1.57506	3.31	Average	
1,4-DICHLOROBENZENE	1.61171	1.67193	3.74	Average	
BENZYL ALCOHOL	.46035	.52639	14.35	Average	
1,2-DICHLOROBENZENE	1.42965	1.46667	2.59	Average	
2-METHYLPHENOL	1.31520	1.37076	4.23	Average	
BIS (2-CHLOROISOPROPYL) ETHER	1.20323	.99330	17.45	Average	
4-METHYLPHENOL	1.24954	1.30862	4.73	Average	
N-NITROSO-DI-n-PROPYLAMINE	1.01966	1.00458	1.48	Average	
HEXACHLOROETHANE	.64353	.65912	2.42	Average	
2-FLUOROPHENOL (SS)	1.43582	1.39163	3.08	Average	(Conc=200.00)
PHENOL D5 (SS)	1.65801	1.68525	1.64	Average	(Conc=200.00)
NITROBENZENE	.40693	.42651	4.81	Average	
ISOPHORONE	.78018	.73892	5.29	Average	
2-NITROPHENOL	.17999	.19524	8.47	Average	
2,4-DIMETHYLPHENOL	.29823	.28556	4.25	Average	
BENZOIC ACID	.13317	.12898	3.15	Average	(Conc=80.00)
BIS(2-CHLOROETHOXY)METHANE	.50191	.49960	.46	Average	
2,4-DICHLOROPHENOL	.25717	.24455	4.91	Average	
1,2,4-TRICHLOROBENZENE	.29320	.30520	4.09	Average	
NAPHTHALENE	1.08759	1.08610	.14	Average	
4-CHLOROANILINE	.37946	.36130	4.79	Average	
HEXACHLOROBUTADIENE	.16960	.17500	3.19	Average	
4-CHLORO-3-METHYLPHENOL	.26576	.22597	14.97	Average	
2-METHYLNAPHTHALENE	.60412	.58359	3.40	Average	
NITROBENZENE D5 (SS)	.39175	.41672	6.37	Average	(Conc=100.00)
HEXACHLOROCYCLOPENTADIENE	.35392	.45486	28.52	Average	
2,4,6-TRICHLOROPHENOL	.28662	.33487	16.83	Average	
2,4,5-TRICHLOROPHENOL	.39091	.34205	12.50	Average	(Conc=80.00)
2-CHLORONAPHTHALENE	1.26397	1.36503	8.00	Average	
2-NITROANILINE	.30103	.30492	1.29	Average	(Conc=80.00)
DIMETHYL PHTHALATE	1.00424	1.15377	14.89	Average	
ACENAPHTHYLENE	2.05162	2.04943	.11	Average	
3-NITROANILINE	.22620	.21562	21.93	Average	(Conc=80.00)
ACENAPHTHENE	1.15792	1.19863	3.52	Average	
2,4-DINITROPHENOL	.06215	.05461	12.13	Average	(Conc=80.00)
4-NITROPHENOL	.16619	.08515	48.76	Average	(Conc=80.00)
DIBENZOFURAN	1.61541	1.52153	5.81	Average	
2,4-DINITROTOLUENE	.27465	.23838	13.21	Average	
2,6-DINITROTOLUENE	.24389	.24944	2.22	Average	

RF - Response Factor from daily standard file at 50.00 ug/L

$\overline{RF}$ - Average Response Factor from Initial Calibration

Calibration Check Report

Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST + priority pollutants
Calibrated: 860924 13:46

Check Standard Data File:)A6137
Injection Time: 860926 10:55

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
DIETHYL PHTHALATE	1.20389	.96457	19.90	Average	
4-CHLOROPHENYL-PHENYL ETHER	.56154	.51152	8.91	Average	
FLUORENE	1.20991	1.06222	12.20	Average	
4-NITROANILINE	.20273	.10986	45.81	Average	(Conc=80.00)
2-FLUOROBIPHENYL (SS)	1.48675	1.61142	8.42	Average	(Conc=100.00)
2,4,6-TRIBROMOPHENOL (SS)	.11969	.09946	16.90	Average	(Conc=200.00)
4,6-DINITRO-2-METHYLPHENOL	.08295	.06772	17.47	Average	(Conc=80.00)
N-NITROSODIPHENYLAMINE	.55120	.67494	22.45	Average	
4-BROMOPHENYL-PHENYL ETHER	.26840	.23952	10.11	Average	
HEXACHLOROBENZENE	.21368	.24575	15.01	Average	
PENTACHLOROPHENOL	.13057	.09375	16.72	Average	(Conc=80.00)
PHENANTHRENE	.99339	1.06218	6.93	Average	
ANTHRACENE	1.21149	1.22376	.85	Average	
Di-n-BUTYL PHTHALATE	1.11080	.96127	13.46	Average	
FLUORANTHENE	.88275	.63786	21.85	Average	
BENZIDINE	.85903	.46970	45.32	Average	
PYRENE	5.93199	4.99586	27.84	Average	
BUTYLBENZYL PHTHALATE	1.35550	1.55652	14.83	Average	
3,3'-DICHLOROBENZIDINE	.59667	.49435	15.74	Average	
BENZO(a)ANTHRACENE	2.61427	2.76197	5.65	Average	
BIS(2-ETHYLHEXYL) PHTHALATE	1.78199	1.70616	4.26	Average	
CHRYSENE	2.62150	2.65008	1.09	Average	
TERPHENYL-D14 (SS)	2.29574	2.02453	11.76	Average	(Conc=100.00)
Di-N-OCTYL PHTHALATE	1.68389	1.84747	9.71	Average	
BENZO(b)FLUORANTHENE	2.88627	1.49193	25.64	Average	
BENZO(k)FLUORANTHENE	2.41829	1.50023	37.96	Average	
BENZO(a)PYRENE	2.25895	2.25788	.04	Average	
INDENO(1,2,3,cd)PYRENE	1.72770	1.20833	30.06	Average	
DIBENZO(a,h)ANTHRACENE	1.06619	1.00955	5.31	Average	
BENZO(g,h,i)PERYLENE	1.19625	1.20833	1.01	Average	

RF - Response Factor from daily standard file at 50.00 ug/L

$\overline{RF}$ - Average Response Factor from Initial Calibration

2 2 0656

023-11

Calibration Check Report

Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST + priority pollutants

Calibrated: 860924 13:46

Check Standard Data File: >A6165

Injection Time: 860929 11:28

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
N-NITROSO DIMETHYL AMINE	.40957	.33018	19.38	Average	
PHENOL	1.80409	1.84901	2.49	Average	
ANILINE	2.01292	1.49650	25.66	Average	
BIS (2-CHLOROETHYL) ETHER	1.75376	1.68681	3.82	Average	
2-CHLOROPHENOL	1.42969	1.47451	3.14	Average	
1,3-DICHLOROBENZENE	1.52454	1.48745	2.43	Average	
1,4-DICHLOROBENZENE	1.61171	1.38022	14.36	Average	
BENZYL ALCOHOL	.46035	.76011	65.12	Average	
1,2-DICHLOROBENZENE	1.42965	1.36858	4.27	Average	
2-METHYLPHENOL	1.31520	1.33046	1.16	Average	
BIS (2-CHLOROISOPROPYL) ETHER	1.20323	1.01967	15.26	Average	
4-METHYLPHENOL	1.24954	1.25420	.37	Average	
N-NITROSO-DI-n-PROPYLAMINE	1.01966	.83151	18.45	Average	
HEXACHLOROETHANE	.64353	.61012	5.19	Average	
2-FLUOROPHENOL (SS)	1.43582	1.41669	1.33	Average	(Conc=200.00)
PHENOL-D5 (SS)	1.65801	1.73806	4.83	Average	(Conc=200.00)
NITROBENZENE	.40693	.38266	5.97	Average	
ISOPHORONE	.78018	.71790	7.98	Average	
2-NITROPHENOL	.17999	.19770	9.84	Average	
2,4-DIMETHYLPHENOL	.29823	.28032	6.01	Average	
BENZOIC ACID	.13317	.18340	37.71	Average	(Conc=80.00)
BIS(2-CHLOROETHOXY)METHANE	.50191	.47265	5.83	Average	
2,4-DICHLOROPHENOL	.25717	.25626	.35	Average	
1,2,4-TRICHLOROBENZENE	.29320	.28279	3.55	Average	
NAPHTHALENE	1.08759	1.02364	5.88	Average	
4-CHLOROANILINE	.37946	.39283	3.52	Average	
HEXACHLOROBUTADIENE	.16960	.13757	18.89	Average	
4-CHLORO-3-METHYLPHENOL	.26576	.28282	6.42	Average	
2-METHYLNAPHTHALENE	.60412	.57465	4.88	Average	
NITROBENZENE-D5 (SS)	.39175	.38690	1.24	Average	(Conc=100.00)
HEXACHLOROCYCLOPENTADIENE	.35392	.29546	16.52	Average	
2,4,6-TRICHLOROPHENOL	.28662	.34284	19.61	Average	
2,4,5-TRICHLOROPHENOL	.39091	.38196	2.29	Average	(Conc=80.00)
2-CHLORONAPHTHALENE	1.26397	1.20042	5.03	Average	
2-NITROANILINE	.30103	.28654	4.82	Average	(Conc=80.00)
DIMETHYL PHTHALATE	1.00424	1.24975	24.45	Average	
ACENAPHTHYLENE	2.05162	1.98147	3.42	Average	
3-NITROANILINE	.27620	.26279	4.86	Average	(Conc=80.00)
ACENAPHTHENE	1.15792	.98964	14.53	Average	
2,4-DINITROPHENOL	.06215	.13217	112.59	Average	(Conc=80.00)
4-NITROPHENOL	.16619	.20586	23.87	Average	(Conc=80.00)
DIBENZOFURAN	1.61541	1.60009	.95	Average	
2,4-DINITROTOLUENE	.27465	.37307	35.84	Average	
2,6-DINITROTOLUENE	.24389	.25003	2.52	Average	

RF - Response Factor from daily standard file at 50.00 ug/L

$\overline{RF}$ - Average Response Factor from Initial Calibration

2 2 0657

023-12

Calibration Check Report

Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST + priority pollutants

Calibrated: 860924 13:46

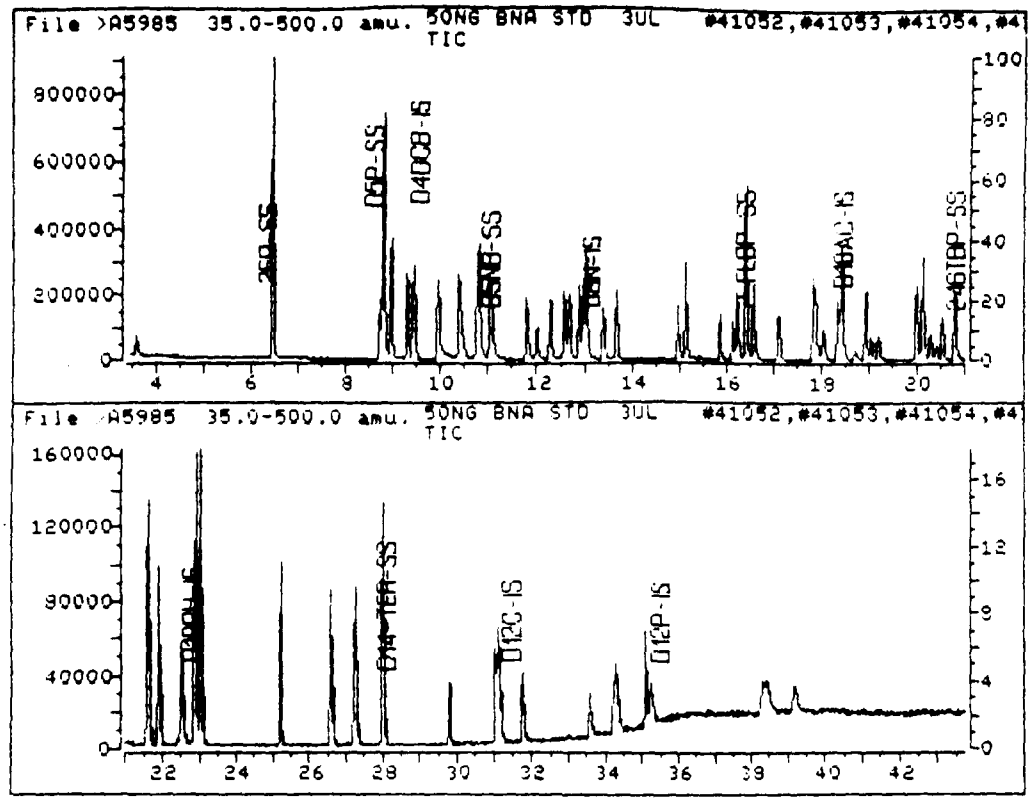
Check Standard Data File: >A6165

Injection Time: 860929 11:28

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
DIETHYL PHTHALATE	1.20389	1.28299	6.57	Average	
4-CHLOROPHENYL-PHENYL ETHER	.56154	.56555	.71	Average	
FLUORENE	1.20981	1.21738	.63	Average	
4-NITROANILINE	.20273	.21721	7.15	Average	(Conc=80.00)
2-FLUOROBIPHENYL (SS)	1.48625	1.44856	2.54	Average	(Conc=100.00)
2,4,6-TRIBROMOPHENOL (SS)	.11969	.16008	33.75	Average	(Conc=200.00)
4,6-DINITRO-2-METHYLPHENOL	.08205	.10127	23.43	Average	(Conc=80.00)
N-NITROSODIPHENYLAMINE	.55120	.47348	14.10	Average	
4-BROMOPHENYL-PHENYL ETHER	.26840	.22250	17.10	Average	
HEXACHLOROBENZENE	.21368	.19771	7.47	Average	
PENTACHLOROPHENOL	.10057	.10905	8.43	Average	(Conc=80.00)
PHENANTHRENE	.99339	.98528	.82	Average	
ANTHRACENE	1.21349	1.13625	6.37	Average	
DI-n-BUTYL PHTHALATE	1.11080	1.30138	17.16	Average	
FLUORANTHENE	.80773	.83723	3.65	Average	
BENZIDINE	.85903	.79147	7.86	Average	
PYRENE	3.93199	3.13044	20.39	Average	
BUTYLBENZYL PHTHALATE	1.35550	1.47730	8.99	Average	
3,3'-DICHLOROBENZIDINE	.58667	.55633	5.17	Average	
BENZO(a)ANTHRACENE	2.61427	2.61006	.16	Average	
BIS(2-ETHYLHEXYL) PHTHALATE	1.78199	2.11032	18.43	Average	
CHRYSENE	2.62150	2.38908	8.87	Average	
TERPHENYL-D14 (SS)	2.79574	2.52594	9.65	Average	(Conc=100.00)
DI-N-OCTYL PHTHALATE	1.68389	1.88722	12.07	Average	
BENZO(b)FLUORANTHENE	2.00627	1.50280	25.09	Average	
BENZO(k)FLUORANTHENE	2.41829	1.34791	44.26	Average	
BENZO(a)PYRENE	2.75085	2.18231	20.90	Average	
INDENO(1,2,3,cd)PYRENE	1.72770	1.08682	37.09	Average	
DIBENZ(a,h)ANTHRACENE	1.06619	.95683	10.26	Average	
BENZO(g,h,i)PERYLENE	1.19625	1.08682	9.15	Average	

RF - Response Factor from daily standard file at 50.00 ug/L

$\overline{RF}$ - Average Response Factor from Initial Calibration



MS data file header from : >A5985

Sample: 50NG BNA STD 3UL Operator: MIKE MS 9/05/86 10:33
Misc : #41052,#41053,#41054,#41055:75UL EA. IS=40NG(#41005:3BTL# 1
Sys. #: 1A MS model: 87 SW/HW rev.: CA ALS # 0
Method file: BNAME1 Tuning file: BNATU1 No. of extra records: 1
Source temp.: 225 Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	2.0	8.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

2 2 0659
029-01

QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860905 11:19
Output File: ^A5985::AQ Injected at: 860905 10:33
Data File: >A5985::GG Dilution Factor: 1.000
Name: 50NG BNA STD 3UL
Misc: #41052,#41053,#41054,#41055;75UL EA. IS=40NG(#41005;3BTL# 1

ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860903 22:52

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-D4 (IS)	9.42	365	93970	40.00	ug/L	81
2)	N-NITROSO DIMETHYL AMINE	3.60	10	47737	87.56	ug/L	75
3)	PHENOL	8.83	329	196746	51.59	ug/L	76
4)	ANILINE	8.73	323	225403	49.93	ug/L	98
5)	BIS (2-CHLOROETHYL) ETHER	8.97	338	202958	51.49	ug/L	92
6)	2-CHLOROPHENOL	8.96	337	158129	49.29	ug/L	96
7)	1,3-DICHLOROBENZENE	9.30	358	178951	48.20	ug/L	90
8)	1,4-DICHLOROBENZENE	9.47	368	184326	45.99	ug/L	92
9)	BENZYL ALCOHOL	9.97	399	62899	111.14	ug/L	99
10)	1,2-DICHLOROBENZENE	9.94	397	166142	47.24	ug/L	92
11)	2-METHYLPHENOL	10.38	424	147984	47.42	ug/L	96
12)	BIS (2-CHLOROISOPROPYL) ETHER	10.43	427	143382	65.87	ug/L	100
13)	4-METHYLPHENOL	10.81	450	136272	50.98	ug/L	97
14)	N-NITROSO-DI-n-PROPYLAMINE	10.81	450	117406	58.03	ug/L	80
15)	HEXACHLOROETHANE	10.76	447	73109	50.22	ug/L	86
16)	2-FLUOROPHENOL (SS)	6.45	184	532987	220.11	ug/L	99
17)	PHENOL-D5 (SS)	8.81	328	720019	200.53	ug/L	91
18)	*NAPHTHALENE-D8 (IS)	12.99	533	334340	40.00	ug/L	100
19)	NITROBENZENE	11.09	467	168852	54.27	ug/L	80
20)	ISOPHORONE	11.79	510	318656	62.19	ug/L	94
21)	2-NITROPHENOL	12.00	523	63914	56.09	ug/L	75
22)	2,4-DIMETHYLPHENOL	12.28	542	118693	51.37	ug/L	93
23)	BENZOIC ACID	12.71	566	80966	149.29	ug/L	96
24)	BIS(2-CHLOROETHOXY)METHANE	12.58	558	213031	53.33	ug/L	94
25)	2,4-DICHLOROPHENOL	12.68	564	105225	52.92	ug/L	96
26)	1,2,4-TRICHLOROBENZENE	12.91	578	128339	47.06	ug/L	97
27)	NAPHTHALENE	13.04	586	459540	47.13	ug/L	93
28)	4-CHLOROANILINE	13.40	608	162910	54.15	ug/L	96
29)	HEXACHLOROBUTADIENE	13.68	625	70563	43.38	ug/L	93
30)	4-CHLORO-3-METHYLPHENOL	14.97	704	111582	66.26	ug/L	87
31)	2-METHYLNAPHTHALENE	15.13	714	269169	51.92	ug/L	97
32)	NITROBENZENE-D5 (SS)	11.04	464	314995	102.90	ug/L	86
33)	*ACENAPHTHENE-D10(IS	18.33	909	146847	40.00	ug/L	95
34)	HEXACHLOROCYCLOPENTADIENE	15.37	759	52050	35.63	ug/L	97
35)	2,4,6-TRICHLOROPHENOL	15.15	779	47296	45.48	ug/L	93
36)	2,4,5-TRICHLOROPHENOL	16.23	791	105182	95.43	ug/L	94
37)	2-CHLORONAPHTHALENE	16.59	803	232581	39.67	ug/L	93
38)	2-NITROANILINE	17.11	835	99403	105.78	ug/L	97
39)	DIMETHYL PHTHALATE	19.33	909	27673	7.57	ug/L	92
40)	ACENAPHTHYLENE	17.85	880	379343	45.21	ug/L	93
41)	3-NITROANILINE	18.39	913	80342	116.59	ug/L	65
42)	ACENAPHTHENE	18.42	915	213004	45.93	ug/L	81
43)	2,4-DINITROPHENOL	18.70	932	15493	167.72	ug/L	73
44)	4-NITROPHENOL	19.05	953	44823	165.44	ug/L	99

QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860905 11:19
Output File: ^A5985::AQ Injected at: 860905 10:33
Data File: >A5985::GG Dilution Factor: 1.000
Name: 50NG BNA STD 3UL
Misc: #41052,#41053,#41054,#41055:75UL EA. IS=40NG(#41005:38TL# 1

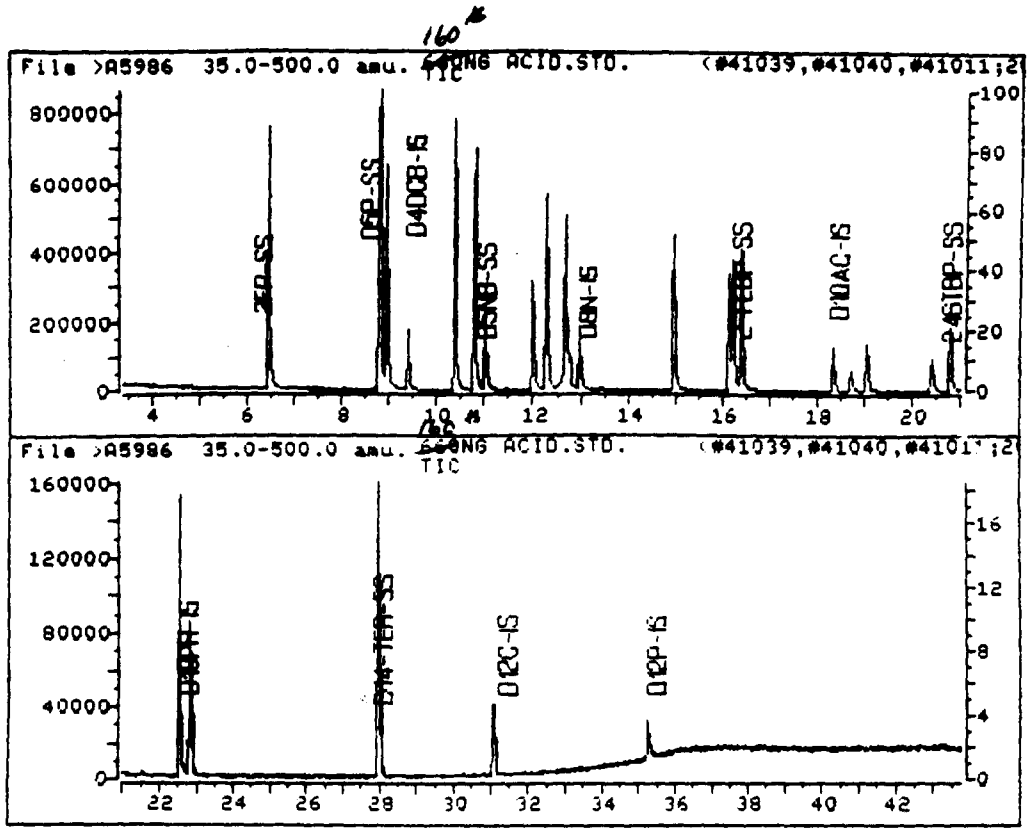
ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860903 22:52

	Compound	R.T.	Scan#	Area	Conc	Units	Q
47)	2,6-DINITROTOLUENE	18.05	892	43948	62.12	ug/L	82
48)	DIETHYL PHTHALATE	20.09	1017	214099	71.73	ug/L	94
49)	4-CHLOROPHENYL-PHENYL ETHER	20.11	1018	104534	55.48	ug/L	76
50)	FLUORENE	19.98	1010	224808	54.98	ug/L	95
51)	4-NITROANILINE	20.28	1028	55608	124.61	ug/L	74
52)	2-FLUOROBIPHENYL (SS)	16.41	792	529053	77.55	ug/L	100
53)	2,4,6-TRIBROMOPHENOL (SS)	20.78	1059	90900	296.89	ug/L	100
54)	*PHENANTHRENE-D10 (IS)	22.81	1183	159943	40.00	ug/L	100
55)	4,6-DINITRO-2-METHYLPHENOL	20.41	1036	21568	131.35	ug/L	88
56)	N-NITROSODIPHENYLAMINE	20.52	1043	117596	45.48	ug/L	87
57)	4-BROMOPHENYL-PHENYL ETHER	21.59	1108	55000	40.59	ug/L	88
58)	HEXACHLOROBENZENE	21.90	1127	46695	42.30	ug/L	94
59)	PENTACHLOROPHENOL	22.50	1164	25937	96.05	ug/L	100
60)	PHENANTHRENE	22.89	1187	206816	45.68	ug/L	83
61)	ANTHRACENE	23.03	1196	245071	46.44	ug/L	82
62)	DI-n-BUTYL PHTHALATE	25.17	1327	190096	50.55	ug/L	100
63)	FLUORANTHENE	26.58	1413	131139	40.27	ug/L	90
64)	*CHRYSENE-D12 (IS)	31.06	1687	21399	40.00	ug/L	100
65)	BENZIDINE	27.20	1451	34465	76.79	ug/L	100
66)	PYRENE	27.23	1453	127554	56.41	ug/L	94
67)	BUTYLBENZYL PHTHALATE	29.77	1608	33809	56.23	ug/L	65
68)	3,3'-DICHLOROBENZIDINE	31.14	1692	14504	51.36	ug/L	100
69)	BENZO(a)ANTHRACENE	31.03	1685	71326	47.65	ug/L	86
70)	BIS(2-ETHYLHEXYL) PHTHALATE	31.75	1729	40949	51.13	ug/L	99
71)	CHRYSENE	31.14	1692	74213	49.15	ug/L	97
72)	TERPHENYL-D14 (SS)	27.97	1498	156315	107.75	ug/L	100
73)	*PERYLENE-D12 (IS)	35.25	1943	28791	40.00	ug/L	100
74)	DI-N-OCTYL PHTHALATE	33.58	1841	47530	53.18	ug/L	100
75)	BENZO(b)FLUORANTHENE	34.28	1884	71781	55.51	ug/L	89
76)	BENZO(k)FLUORANTHENE	34.28	1884	71781	55.51	ug/L	91
77)	BENZO(a)PYRENE	35.09	1933	95724	46.87	ug/L	89
78)	INDENO(1,2,3,cd)PYRENE	38.30	2129	59342	50.26	ug/L	84
79)	DIBENZ(a,h)ANTHRACENE	38.42	2136	36294	3177.87	ug/L	92
80)	BENZO(g,h,i)PERYLENE	39.16	2181	41435	46.11	ug/L	78

* Compound is ISTD

2 2 0661

028-02



MS data file header from : >A5986

Sample: 160 NG ACID.STD. Operator: MIKE MS 9/05/86 11:32
Misc : (#41039,#41040,#41011:200UL EA.) IS=40NG(#41005:4UL) BTL# 2
Sys. #: 1A MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: BNAME1 Tuning file: BNATU1 No. of extra records: 1
Source temp.: 225 Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	2.0	8.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

QUANT REPORT

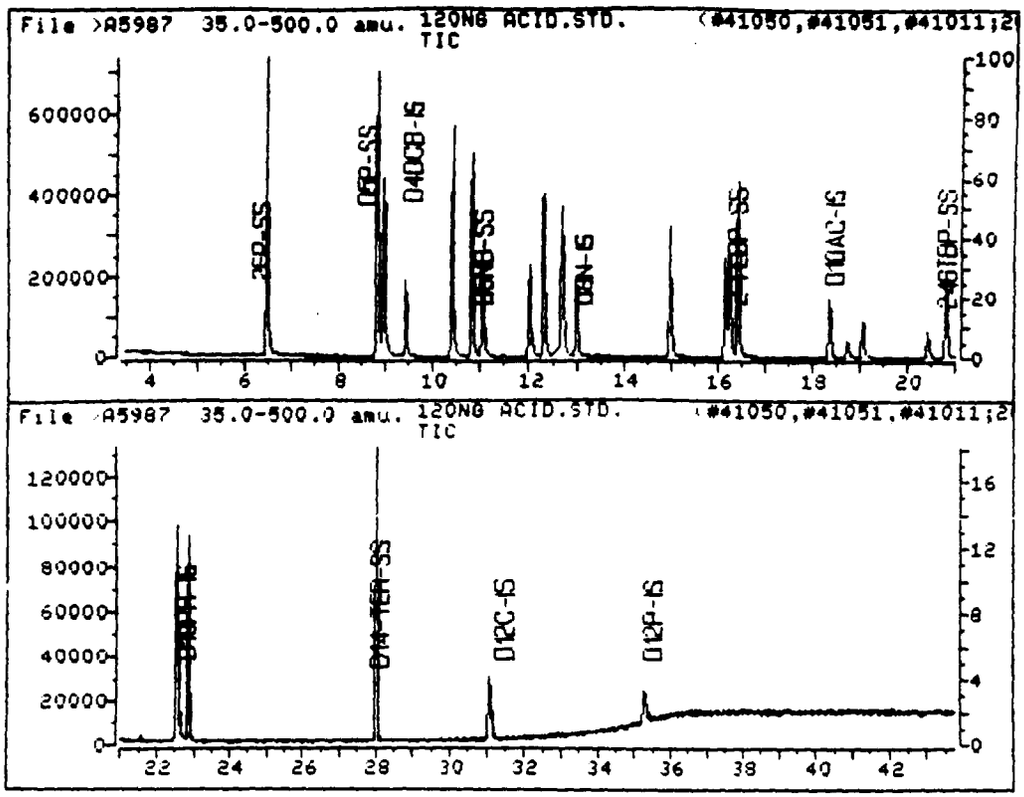
Operator ID: MIKE Quant Rev: 4 Quant Time: 860905 12:19
Output File: ^A5986::AQ Injected at: 860905 11:32
Data File: >A5986::GG Dilution Factor: 1.000
Name: 80NG ACID.STD.
Misc: (#41039,#41040,#41011:200UL EA.) IS=40NG(#41005;4UL) BTL# 2

ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860903 22:52

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-D4 (IS)	9.41	369	81331	40.00	ug/L	83
3)	PHENOL	8.84	334	650270	197.03	ug/L	81
6)	2-CHLOROPHENOL	8.95	341	544955	196.27	ug/L	96
11)	2-METHYLPHENOL	10.37	428	487397	180.47	ug/L	98
13)	4-METHYLPHENOL	10.80	454	470620	203.42	ug/L	96
16)	2-FLUOROPHENOL (SS)	6.46	189	679398	272.96	ug/L	91
17)	PHENOL-D5 (SS)	8.80	332	752472	242.13	ug/L	94
18)	*NAPHTHALENE-D8 (IS)	12.98	587	262931	40.00	ug/L	100
21)	2-NITROPHENOL	12.00	527	230672	238.74	ug/L	83
22)	2,4-DIMETHYLPHENOL	12.27	544	373963	205.82	ug/L	92
23)	BENZOIC ACID	12.80	576	187288	439.12	ug/L	91
25)	2,4-DICHLOROPHENOL	12.67	568	327530	209.45	ug/L	95
30)	4-CHLORO-3-METHYLPHENOL	14.96	708	344927	260.42	ug/L	89
32)	NITROBENZENE-D5 (SS)	11.03	468	294325	122.26	ug/L	81
33)	*ACENAPHTHENE-D10(IS)	18.33	914	104588	40.00	ug/L	91
35)	2,4,6-TRICHLOROPHENOL	16.14	780	158354	213.81	ug/L	99
36)	2,4,5-TRICHLOROPHENOL	16.22	785	193416	246.39	ug/L	95
43)	2,4-DINITROPHENOL	18.69	936	38021	577.89	ug/L	80
44)	4-NITROPHENOL	19.03	957	101778	527.46	ug/L	88
52)	2-FLUOROBIPHENYL (SS)	16.40	796	442419	91.05	ug/L	100
53)	2,4,6-TRIBROMOPHENOL (SS)	20.77	1063	86199	395.29	ug/L	100
54)	*PHENANTHRENE-D10 (IS)	22.81	1188	128272	40.00	ug/L	100
55)	4,6-DINITRO-2-METHYLPHENOL	20.39	1040	56081	425.87	ug/L	95
59)	PENTACHLOROPHENOL	22.50	1169	70608	326.04	ug/L	100
64)	*CHRYSENE-D12 (IS)	31.06	1692	26045	40.00	ug/L	100
72)	TERPHENYL-D14 (SS)	27.97	1503	221427	117.87	ug/L	100
73)	*PERYLENE-D12 (IS)	35.25	1948	33610	40.00	ug/L	100

* Compound is ISTD

2 2 0663
028-03



MS data file header from : >A5987

Sample: 120NG ACID.STD. Operator: MIKE MS 9/05/86 12:30
Misc : (#41050,#41051,#41011;200UL EA.) IS=40NG(#41005;4UL) BTL# 3
Sys. #: 1A MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: BNAME1 Tuning file: BNATU1 No. of extra records: 1
Source temp.: 225 Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	2.0	8.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

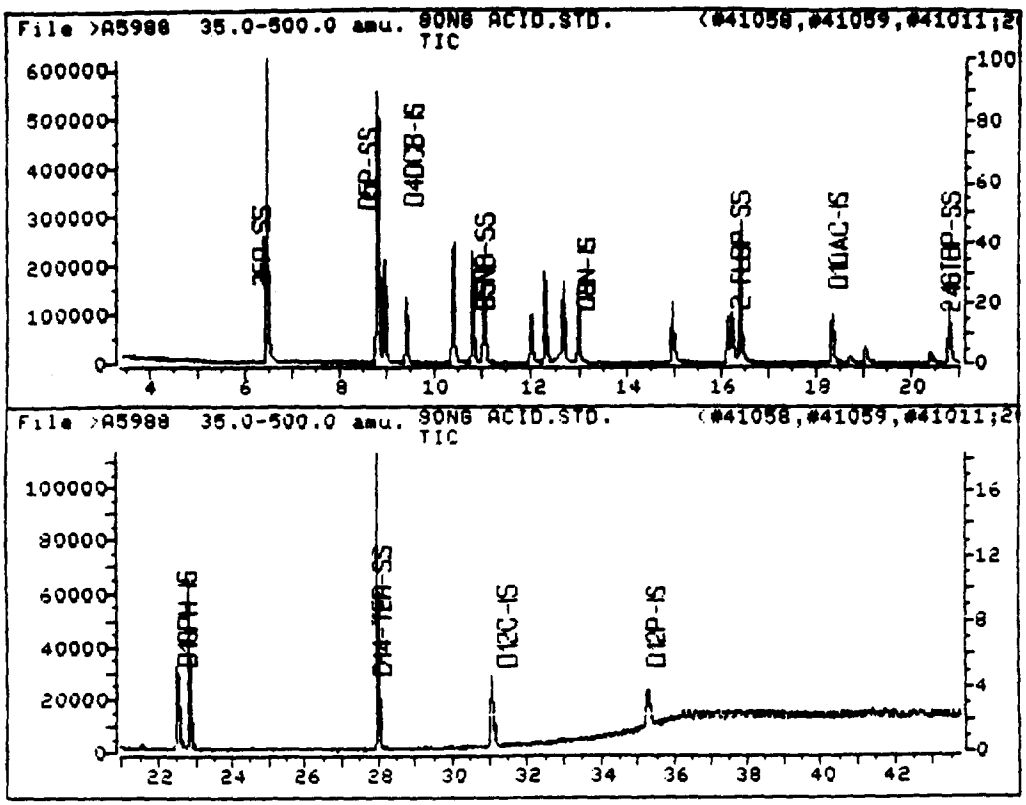
QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860905 [illegible]
Output File: ^A5987::AQ Injected at: 860905 [illegible]
Data File: >A5987::GG Dilution Factor: [illegible].00
Name: 120NG ACID.STD.
Misc: (#41050,#41051,#41011:200UL EA.) IS=40NG(#41005:4UL) BTL# 3

ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860903 22:52

	Compound	R.T.	Scan#	Area	Conc	Units	
1)	*1,4-DICHLOROBENZENE-D4 (IS)	9.42	365	85752	40.00	g/L	4
3)	PHENOL	8.83	329	466868	134.17	g/L	1
6)	2-CHLOROPHENOL	8.96	337	368336	125.82	g/L	8
11)	2-METHYLPHENOL	10.39	424	346850	121.81	g/L	7
13)	4-METHYLPHENOL	10.81	450	326649	133.91	g/L	5
16)	2-FLUOROPHENOL (SS)	5.46	184	609107	232.10	g/L	8
17)	PHENOL-D5 (SS)	8.81	328	716999	218.82	g/L	3
18)	*NAPHTHALENE-D8 (IS)	12.99	583	301842	40.00	g/L	0
21)	2-NITROPHENOL	12.01	523	166605	150.21	g/L	6
22)	2,4-DIMETHYLPHENOL	12.30	541	269367	129.14	g/L	3
23)	BENZOIC ACID	12.75	569	118954	242.95	g/L	6
25)	2,4-DICHLOROPHENOL	12.70	565	228989	127.56	g/L	2
30)	4-CHLORO-3-METHYLPHENOL	14.97	704	242222	159.30	g/L	7
32)	NITROBENZENE-D5 (SS)	11.04	464	286398	107.25	g/L	4
33)	*ACENAPHTHENE-D10(IS)	18.34	910	123759	40.00	g/L	6
35)	2,4,6-TRICHLOROPHENOL	16.19	776	112065	127.97	g/L	9
36)	2,4,5-TRICHLOROPHENOL	16.23	781	138315	148.90	g/L	7
43)	2,4-DINITROPHENOL	18.72	933	22640	290.91	g/L	1
44)	4-NITROPHENOL	19.05	953	63554	278.34	g/L	4
52)	2-FLUOROBIPHENYL (SS)	16.41	782	456812	81.19	g/L	0
53)	2,4,6-TRIBROMOPHENOL (SS)	20.60	1060	88798	344.13	g/L	0
54)	*PHENANTHRENE-D10 (IS)	22.83	1194	139596	40.00	g/L	0
55)	4,6-DINITRO-2-METHYLPHENOL	20.40	1036	36000	253.01	g/L	0
59)	PENTACHLOROPHENOL	22.51	1165	43576	186.23	g/L	0
64)	*CHRYSENE-D12 (IS)	31.07	1588	19087	40.00	g/L	0
72)	TERPHENYL-D14 (SS)	27.98	1499	188707	122.54	g/L	0
73)	*PERYLENE-D12 (IS)	35.26	1944	23608	40.00	g/L	0

* Compound is ISTD



MS data file header from : >A5988

Sample: 80NG ACID.STD. Operator: MIKE MS 9/05/86 13:28
Misc : (#41058,#41059,#41011:200UL EA.) IS=40NG(#41005:4UL) BTL# 4
Sys. #: 1A MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: BNAME1 Tuning file: BNATU1 No. of extra records: 1
Source temp.: 225 Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	2.0	8.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

2 2 0666
029-05

QUANT REPORT

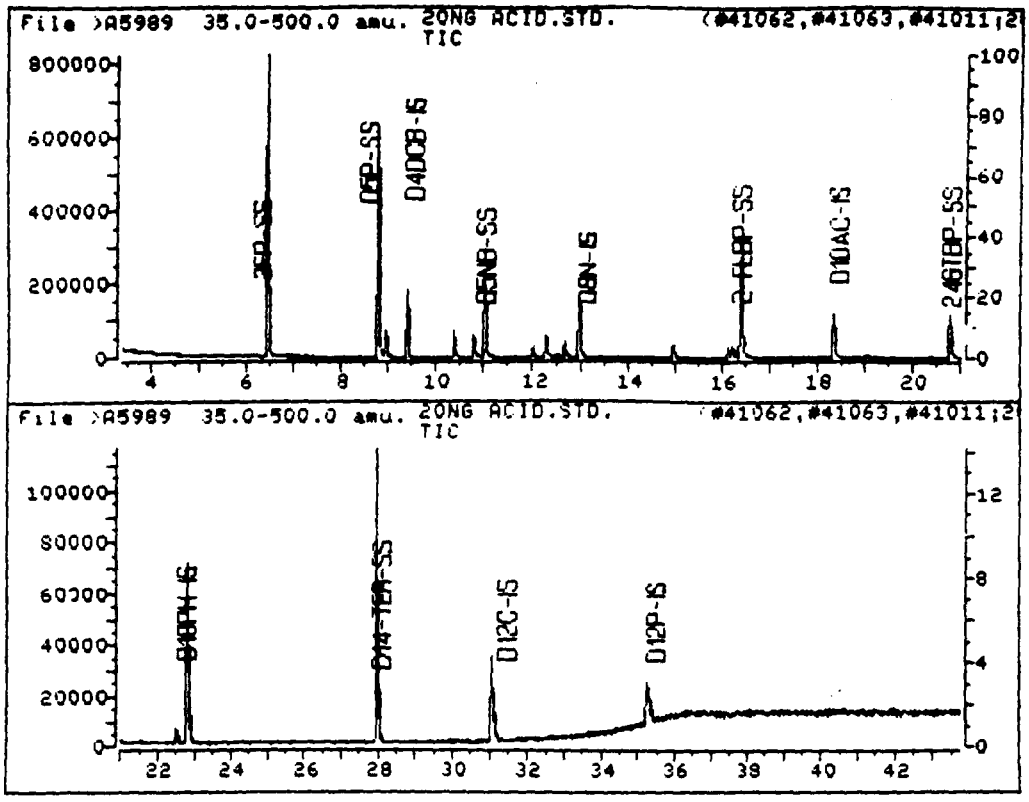
Operator ID: MIKE Quant Rev: 4 Quant Time: 860905 15:44
Output File: ^A5988::AQ Injected at: 860905 13:28
Data File: >A5988::GG Dilution Factor: 1.000
Name: 80NG ACID.STD.
Misc: (#41058,#41059,#41011:200UL EA.) IS=40NG(#41005:4UL) BTL# 4

ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860903 22:52

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-D4 (IS)	9.41	367	63529	40.00	ug/L	85
3)	PHENOL	8.82	331	226779	87.97	ug/L	81
6)	2-CHLOROPHENOL	8.96	340	176783	81.51	ug/L	94
11)	2-METHYLPHENOL	10.39	427	160889	76.26	ug/L	94
13)	4-METHYLPHENOL	10.80	452	154712	85.61	ug/L	97
16)	2-FLUOROPHENOL (SS)	6.46	187	493337	253.75	ug/L	93
17)	PHENOL-D5 (SS)	8.80	330	533697	219.86	ug/L	91
18)	*NAPHTHALENE-D8 (IS)	12.99	586	211900	40.00	ug/L	100
21)	2-NITROPHENOL	12.01	526	73263	94.09	ug/L	75
22)	2,4-DIMETHYLPHENOL	12.28	543	120009	81.96	ug/L	93
23)	BENZOIC ACID	12.64	565	43299	125.97	ug/L	87
25)	2,4-DICHLOROPHENOL	12.68	567	101568	80.59	ug/L	93
30)	4-CHLORO-3-METHYLPHENOL	14.97	707	105406	98.75	ug/L	85
32)	NITROBENZENE-D5 (SS)	11.03	468	215867	111.26	ug/L	84
33)	*ACENAPHTHENE-D10(IS)	18.32	912	82468	40.00	ug/L	91
35)	2,4,6-TRICHLOROPHENOL	16.13	778	42677	73.08	ug/L	99
36)	2,4,5-TRICHLOROPHENOL	16.23	784	61129	98.76	ug/L	99
43)	2,4-DINITROPHENOL	18.70	935	7253	139.81	ug/L	53
44)	4-NITROPHENOL	19.02	955	25524	167.76	ug/L	80
52)	2-FLUOROBIPHENYL (SS)	16.41	795	307841	80.29	ug/L	100
53)	2,4,6-TRIBROMOPHENOL (SS)	20.77	1062	53107	308.86	ug/L	100
54)	*PHENANTHRENE-D10 (IS)	22.80	1138	102939	40.00	ug/L	100
55)	4,6-DINITRO-2-METHYLPHENOL	20.38	1039	13357	125.39	ug/L	92
59)	PENTACHLOROPHENOL	22.49	1167	16221	93.34	ug/L	100
64)	*CHRYSENE-D12 (IS)	31.05	1630	19371	40.00	ug/L	100
72)	TERPHENYL-D14 (SS)	27.95	1501	154971	116.95	ug/L	100
73)	*PERYLENE-D12 (IS)	35.23	1946	23931	40.00	ug/L	100

* Compound is ISTD

2 2 0667
028-05



MS data file header from : >A5989

Sample: 20NG ACID.STD. Operator: MIKE MS 9/05/86 14:26
Misc : (#41062,#41063,#41011;200UL EA.) IS=40NG(#41005;4UL) BTL# 5
Sys. #: 1A MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: BNAME1 Tuning file: BNATU1 No. of extra records: 1
Source temp.: 225 Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	2.0	8.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

2 2 0668
029-06

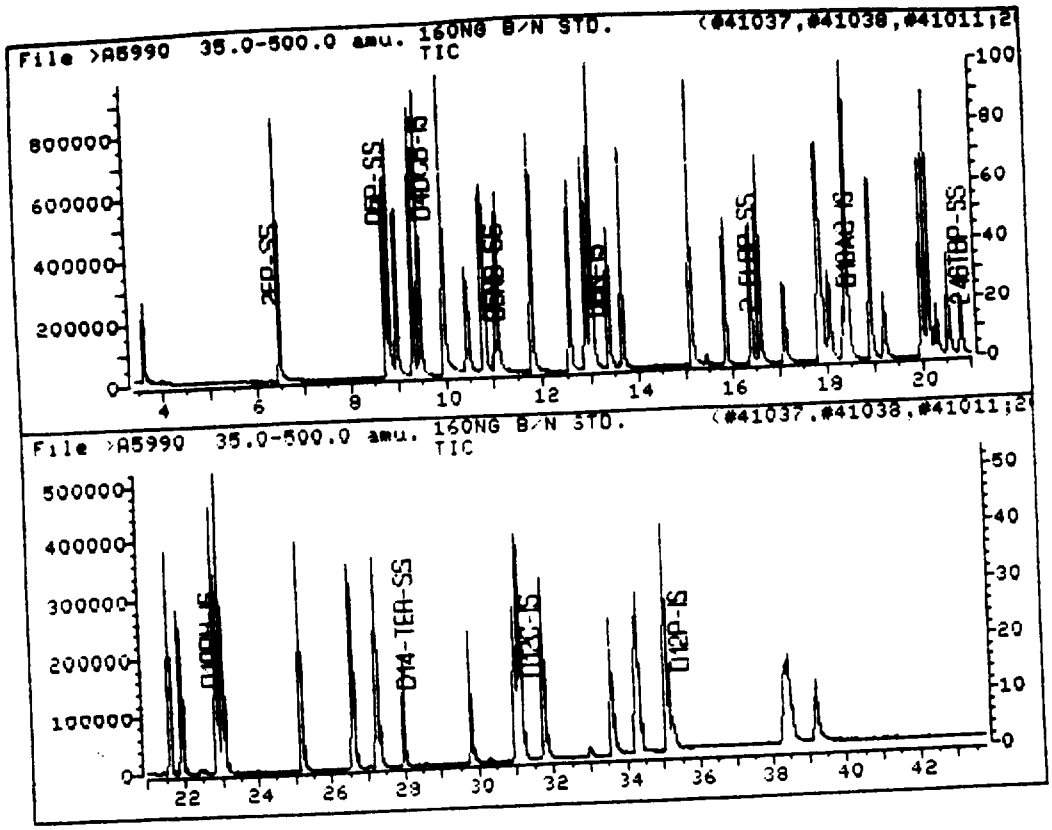
QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860905 15:58
Output File: ^A5989::AQ Injected at: 860905 14:26
Data File: >A5989::GG Dilution Factor: 1.000
Name: 20NG ACID.STD.
Misc: (#41062,#41063,#41011;200UL EA.) IS=40NG(#41005;4UL) BTL# 5

ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860903 22:52

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-D4 (IS)	9.42	371	69168	40.00	ug/L	84
3)	PHENOL	8.83	335	60418	21.53	ug/L	74
6)	2-CHLOROPHENOL	8.96	343	45097	19.10	ug/L	97
11)	2-METHYLPHENOL	10.38	430	41619	18.12	ug/L	91
13)	4-METHYLPHENOL	10.79	455	39894	20.28	ug/L	96
16)	2-FLUOROPHENOL (SS)	6.46	190	509700	240.79	ug/L	97
17)	PHENOL-D5 (SS)	8.80	333	556624	210.61	ug/L	94
18)	*NAPHTHALENE-D8 (IS)	12.98	589	231618	40.00	ug/L	100
21)	2-NITROPHENOL	12.00	529	18397	21.61	ug/L	69
22)	2,4-DIMETHYLPHENOL	12.28	546	31376	19.60	ug/L	91
25)	2,4-DICHLOROPHENOL	12.67	570	26647	19.34	ug/L	92
30)	4-CHLORO-3-METHYLPHENOL	14.96	710	25203	21.60	ug/L	85
32)	NITROBENZENE-D5 (SS)	11.04	470	223927	105.59	ug/L	82
33)	*ACENAPHTHENE-D10(IS)	18.32	915	39012	40.00	ug/L	92
35)	2,4,6-TRICHLOROPHENOL	16.14	782	10518	16.69	ug/L	98
44)	4-NITROPHENOL	19.04	959	4857	29.58	ug/L	87
52)	2-FLUOROBIPHENYL (SS)	16.40	798	312645	75.60	ug/L	100
53)	2,4,6-TRIBROMOPHENOL (SS)	20.77	1065	49562	267.05	ug/L	100
54)	*PHENANTHRENE-D10 (IS)	22.20	1189	108253	40.00	ug/L	100
64)	*CHRYSENE-D12 (IS)	31.06	1694	20925	40.00	ug/L	100
72)	TERPHENYL-D14 (SS)	27.95	1504	154104	109.25	ug/L	100
73)	*PERYLENE-D12 (IS)	35.23	1949	25702	40.00	ug/L	100

* Compound is ISTD



MS data file header from : >A5990

9/05/86 15:26

Sample: 160NG B/N STD. Operator: MIKE MS

Misc : (#41037,#41038,#41011;200UL EA.) IS=40NG(#41005;4UL) BTL# 6

Sys. #: 1A MS model: 87 SW/HW rev.: CA ALS # : 0

Method file: BNAME1 Tuning file: BNATU1 No. of extra records: 1

Source temp.: 225 Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	2.0	8.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

2 2 0670
029-07

QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860905 15:17
Output File: ^A5990::AQ Injected at: 860905 15:26
Data File: ^A5990::GG Dilution Factor: . 1.000
Name: 160NG B/N STD.
Misc: (#41037,#41038,#41011:200UL EA.) IS=40NG(#41005:4UL) BTL# 6

ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860903 22:52

	Compound	R.T.	Scan#	Area	Conc	Units	Q
1)	*1,4-DICHLOROBENZENE-D4 (IS)	8.42	369	86854	40.00	ug/L	85
2)	N-NITROSO DIMETHYL AMINE	3.63	15	151070	299.81	ug/L	90
4)	ANILINE	8.73	327	744839	178.49	ug/L	99
5)	BIS (2-CHLOROETHYL) ETHER	8.98	342	632842	173.72	ug/L	94
7)	1,3-DICHLOROBENZENE	9.31	362	537750	156.73	ug/L	91
8)	1,4-DICHLOROBENZENE	9.45	371	591065	159.54	ug/L	92
9)	BENZYL ALCOHOL	9.96	402	163911	313.34	ug/L	96
10)	1,2-DICHLOROBENZENE	9.94	401	510407	157.02	ug/L	88
12)	BIS (2-CHLOROISOPROPYL) ETHER	10.42	430	431715	214.59	ug/L	100
14)	N-NITROSO-DI-n-PROPYLAMINE	10.81	454	375166	200.62	ug/L	79
15)	HEXACHLOROETHANE	10.76	451	232325	172.68	ug/L	90
16)	2-FLUOROPHENOL (SS)	6.47	189	544443	242.45	ug/L	90
17)	PHENOL-D5 (SS)	8.31	332	163452	230.04	ug/L	91
18)	*NAPHTHALENE-D8 (IS)	12.99	537	128237	40.00	ug/L	100
19)	NITROBENZENE	11.09	471	527170	172.58	ug/L	82
20)	ISOPHORONE	11.78	513	1237436	205.60	ug/L	94
24)	BIS(2-CHLOROETHOXY)METHANE	12.58	562	556071	167.30	ug/L	96
25)	1,2,4-TRICHLOROBENZENE	12.91	582	385136	143.86	ug/L	95
27)	NAPHTHALENE	13.04	590	1436917	150.12	ug/L	95
28)	4-CHLOROANILINE	13.38	611	509124	172.03	ug/L	97
29)	HEXACHLOROBUTADIENE	13.68	629	224092	140.33	ug/L	91
31)	2-METHYLNAPHTHALENE	15.14	719	794483	155.78	ug/L	97
32)	NITROBENZENE-D5 (SS)	11.04	468	226893	108.76	ug/L	94
33)	*ACENAPHTHENE-D10(IS)	18.33	913	139402	40.00	ug/L	95
34)	HEXACHLOROCYCLOPENTADIENE	15.87	763	210018	129.82	ug/L	96
37)	2-CHLORONAPHTHALENE	16.58	806	585418	125.87	ug/L	94
38)	2-NITROANILINE	17.10	838	179314	230.99	ug/L	96
39)	DIMETHYL PHTHALATE	17.91	887	870060	197.42	ug/L	65
40)	ACENAPHTHYLENE	17.34	883	1129398	144.98	ug/L	99
41)	3-NITROANILINE	19.40	917	185811	259.04	ug/L	85
42)	ACENAPHTHENE	19.43	919	548399	150.53	ug/L	91
45)	DIBENZOFURAN	18.92	949	838118	157.09	ug/L	89
46)	2,4-DINITROTOLUENE	19.20	966	158445	257.02	ug/L	76
47)	2,6-DINITROTOLUENE	19.05	995	142351	216.62	ug/L	82
48)	DIETHYL PHTHALATE	20.10	1021	679418	245.04	ug/L	94
49)	4-CHLOROPHENYL-PHENYL ETHER	20.12	1022	317919	181.65	ug/L	75
50)	FLUORENE	19.89	1014	557628	175.79	ug/L	99
51)	4-NITROANILINE	20.28	1032	129002	311.22	ug/L	77
52)	2-FLUOROBIPHENYL (SS)	15.42	796	499985	78.90	ug/L	100
53)	2,4,6-TRIBROMOPHENOL (SS)	20.79	1063	30827	284.20	ug/L	100
54)	*PHENANTHRENE-D10 (IS)	22.82	1187	158233	40.00	ug/L	100
56)	N-NITROSODIPHENYLAMINE	20.53	1047	330705	129.27	ug/L	90
57)	4-BROMOPHENYL-PHENYL ETHER	21.58	1111	171729	128.11	ug/L	95
58)	HEXACHLOROBENZENE	21.90	1131	129836	118.89	ug/L	94

QUANT REPORT

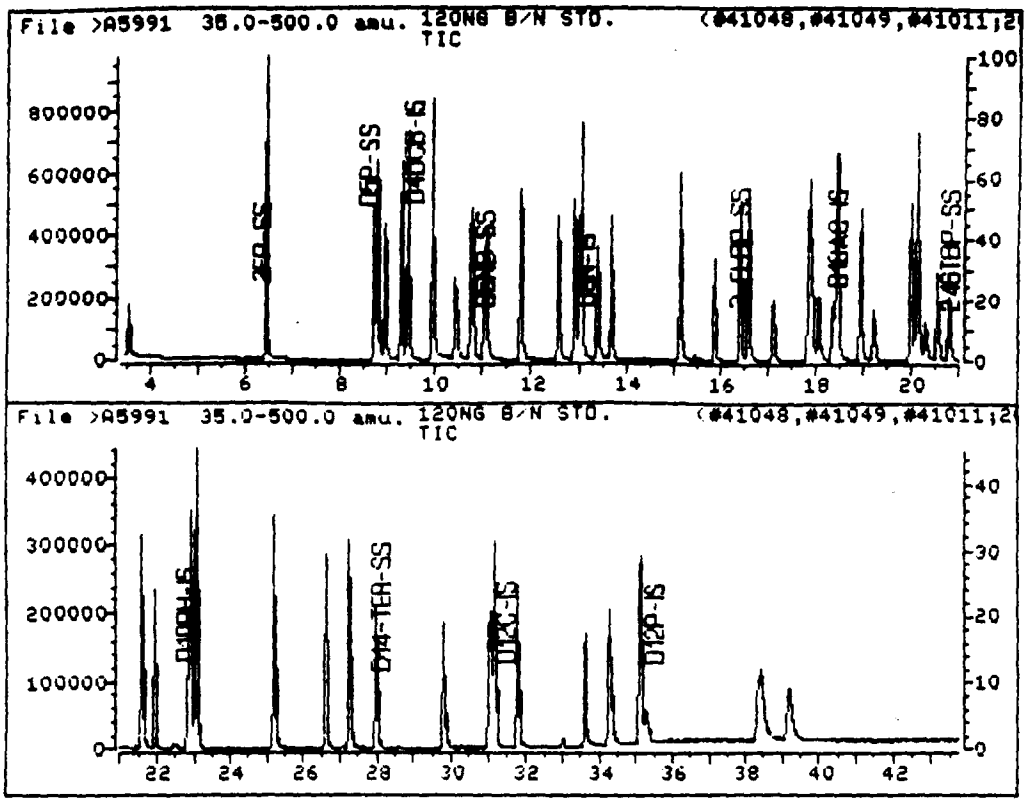
Operator ID: MIKE Quant Rev: 4 Quant Time: 860905 16:17
Output File: "A5990::AQ Injected at: 860905 15:26
Data File: >A5990::GG Dilution Factor: 1.000
Name: 160NG B/N STD.
Misc: (#41037,#41038,#41011;200UL EA.) IS=40NG(#41005;4UL) BTL# 6

ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860903 22:52

	Compound	R.T.	Scan#	Area	Conc	Units	q
62)	DI-n-BUTYL PHTHALATE	25.16	1330	760157	204.34	ug/L	100
63)	FLUORANTHENE	26.57	1416	567481	176.14	ug/L	92
64)	*CHRYSENE-D12 (IS)	31.07	1691	41916	40.00	ug/L	100
66)	PYRENE	27.24	1457	549460	124.06	ug/L	96
67)	BUTYLBENZYL PHTHALATE	29.76	1611	237103	201.33	ug/L	66
68)	3,3'-DICHLOROBENZIDINE	31.13	1695	114226	206.09	ug/L	100
69)	BENZO(a)ANTHRACENE	31.02	1688	421590	143.82	ug/L	85
70)	BIS(2-ETHYLHEXYL) PHTHALATE	31.74	1732	325280	207.33	ug/L	99
71)	CHRYSENE	31.13	1695	431924	146.03	ug/L	98
72)	TERPHENYL-D14 (SS)	27.96	1501	257256	85.09	ug/L	100
73)	*PERYLENE-D12 (IS)	35.25	1946	62976	40.00	ug/L	100
74)	DI-N-OCTYL PHTHALATE	33.58	1844	495989	253.69	ug/L	100
75)	BENZO(b)FLUORANTHENE	34.30	1888	761729	269.32	ug/L	93
76)	BENZO(k)FLUORANTHENE	34.30	1888	761729	269.32	ug/L	85
77)	BENZO(a)PYRENE	35.10	1937	716060	160.28	ug/L	89
78)	INDENO(1,2,3,cd)PYRENE	38.33	2134	484869	187.73	ug/L	97
79)	DIBENZ(a,h)ANTHRACENE	38.45	2141	311179	12456.42	ug/L	82
80)	BENZO(g,h,i)PERYLENE	39.20	2187	315960	160.73	ug/L	87

* Compound is ISTD

2 2 0672
028-07



MS data file header from : >A5991

Sample: 120NG B/N STD. Operator: MIKE MS 9/05/86 16:25
Misc : (#41048,#41049,#41011:200UL EA.) IS=40NG(#41005:4UL) BTL# 7
Sys. #: 1 MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: BNAME1 Tuning file: BNATU1 No. of extra records: 1
Source temp.: 225 Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	2.0	8.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

2 2 0673
029-09

QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860905 17:11
Output File: ^A5991::AQ Injected at: 860905 16:25
Data File: >A5991::GG Dilution Factor: 1.000
Name: 120NG B/N STD.
Misc: (#41048,#41049,#41011:200UL EA.) IS=40NG(#41005:4UL) BTL# 7

ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860903 22:52

	Compound	R.T.	Scan#	Area	Conc	Units	Q
1)	*1,4-DICHLOROBENZENE-D4 (IS)	8.40	363	91545	40.00	ug/L	86
2)	N-NITROSO DIMETHYL AMINE	3.56	6	108375	204.06	ug/L	79
4)	ANILINE	8.72	321	543805	123.64	ug/L	99
5)	BIS (2-CHLOROETHYL) ETHER	8.98	336	485811	126.52	ug/L	91
7)	1,3-DICHLOROBENZENE	9.30	357	415347	114.95	ug/L	90
8)	1,4-DICHLOROBENZENE	9.45	366	451880	115.72	ug/L	91
9)	BENZYL ALCOHOL	9.96	397	149732	271.57	ug/L	94
10)	1,2-DICHLOROBENZENE	9.94	396	396646	115.77	ug/L	88
12)	BIS (2-CHLOROISOPROPYL) ETHER	10.42	425	313613	147.90	ug/L	100
14)	N-NITROSO-DI-n-PROPYLAMINE	10.91	449	274035	139.03	ug/L	79
15)	HEXACHLOROETHANE	10.76	446	177646	125.27	ug/L	90
16)	2-FLUOROPHENOL (SS)	6.44	182	549304	231.41	ug/L	99
17)	PHENOL-D5 (SS)	8.80	326	533685	211.46	ug/L	85
18)	*NAPHTHALENE-D8 (IS)	12.99	582	222072	40.00	ug/L	100
19)	NITROBENZENE	11.09	466	333023	127.79	ug/L	90
20)	ISOPHORONE	11.79	508	771711	155.86	ug/L	94
24)	BIS(2-CHLOROETHOXY)METHANE	12.58	557	486262	126.37	ug/L	98
26)	1,2,4-TRICHLOROBENZENE	12.91	577	286477	109.06	ug/L	92
27)	NAPHTHALENE	13.06	586	1054492	112.28	ug/L	95
29)	4-CHLOROANILINE	13.40	607	384577	132.70	ug/L	97
29)	HEXACHLOROBUTADIENE	13.08	624	159625	108.26	ug/L	92
31	2-METHYLNAPHTHALENE	15.15	714	531214	115.15	ug/L	99
32)	NITROBENZENE-D5 (SS)	11.04	463	312343	106.03	ug/L	94
33)	*ACENAPHTHENE-D10(IS)	19.35	909	137342	40.00	ug/L	94
34)	HEXACHLOROCYCLOPENTADIENE	15.37	759	149479	91.44	ug/L	95
37)	2-CHLORONAPHTHALENE	16.59	802	517057	93.98	ug/L	94
38)	2-NITROANILINE	17.12	834	133721	170.46	ug/L	93
39)	DIMETHYL PHTHALATE	17.30	882	513755	149.79	ug/L	68
40)	ACENAPHTHYLENE	17.85	879	951942	108.32	ug/L	99
41)	3-NITROANILINE	18.41	913	125993	186.17	ug/L	69
42)	ACENAPHTHENE	18.44	915	430991	110.50	ug/L	83
45)	DIBENZOFURAN	18.94	945	387272	115.81	ug/L	98
46)	2,4-DINITROTOLUENE	18.20	961	128700	203.33	ug/L	93
47)	2,6-DINITROTOLUENE	18.05	991	126352	150.90	ug/L	93
48)	DIETHYL PHTHALATE	20.12	1017	542998	183.75	ug/L	94
49)	4-CHLOROPHENYL-PHENYL ETHER	20.12	1017	244763	132.33	ug/L	75
50	FLUORENE	19.99	1009	523153	136.05	ug/L	99
51)	4-NITROANILINE	20.23	1027	103484	247.05	ug/L	78
52)	2-FLUOROBIPHENYL (SS)	16.41	731	506171	79.04	ug/L	100
53)	2,4,6-TRIBROMOPHENOL (SS)	20.79	1059	37129	303.15	ug/L	100
54)	*PHENANTHRENE-D10 (IS)	22.82	1182	168305	40.00	ug/L	100
56)	N-NITROSODIPHENYLAMINE	20.53	1042	278321	102.65	ug/L	99
57)	4-BROMOPHENYL-PHENYL ETHER	21.59	1107	135457	95.00	ug/L	93
58)	HEXACHLOROBENZENE	21.92	1127	125086	90.47	ug/L	90
		22.89	1186	508589	106.75	ug/L	91

QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860905 17:11
Output File: ^A5991::AQ Injected at: 860905 16:25
Data File: >A5991::GG Dilution Factor: 1.000
Name: 120NG B/N STD.
Misc: (#41048,#41049,#41011:200UL EA.) IS=40NG(#41005:4UL) BTL# 7

ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860903 22:52

	Compound	R.T.	Scan#	Area	Conc	Units	q
62)	DI-n-BUTYL PHTHALATE	25.18	1326	605881	160.69	ug/L	100
63)	FLUORANTHENE	26.58	1412	465103	135.72	ug/L	91
64)	*CHRYSENE-D12 (IS)	31.08	1687	41223	40.00	ug/L	100
66)	PYRENE	27.24	1452	456606	104.83	ug/L	94
67)	BUTYLBENZYL PHTHALATE	29.77	1607	187445	161.84	ug/L	64
68)	3,3'-DICHLOROBENZIDINE	31.15	1691	84348	154.74	ug/L	100
69)	BENZO(a)ANTHRACENE	31.03	1684	332010	115.16	ug/L	84
70)	BIS(2-ETHYLHEXYL) PHTHALATE	31.76	1728	256234	166.07	ug/L	96
71)	CHRYSENE	31.15	1691	317254	109.07	ug/L	93
72)	TERPHENYL-D14 (SS)	27.97	1497	275223	92.56	ug/L	100
73)	*PERYLENE-D12 (IS)	35.25	1941	59266	40.00	ug/L	100
74)	DI-N-OCTYL PHTHALATE	33.59	1840	353226	197.41	ug/L	100
75)	BENZO(b)FLUORANTHENE	34.24	1890	225568	85.12	ug/L	95
76)	BENZO(k)FLUORANTHENE	34.29	1893	332380	124.97	ug/L	95
77)	BENZO(a)PYRENE	35.10	1932	516097	122.75	ug/L	99
78)	INDENO(1,2,3,cd)PYRENE	38.33	2129	348153	143.24	ug/L	94
79)	DIBENZ(a,h)ANTHRACENE	38.44	2136	223197	9493.81	ug/L	76
80)	BENZO(g,h,i)PERYLENE	39.20	2182	223124	120.61	ug/L	95

* Compound is ISTD

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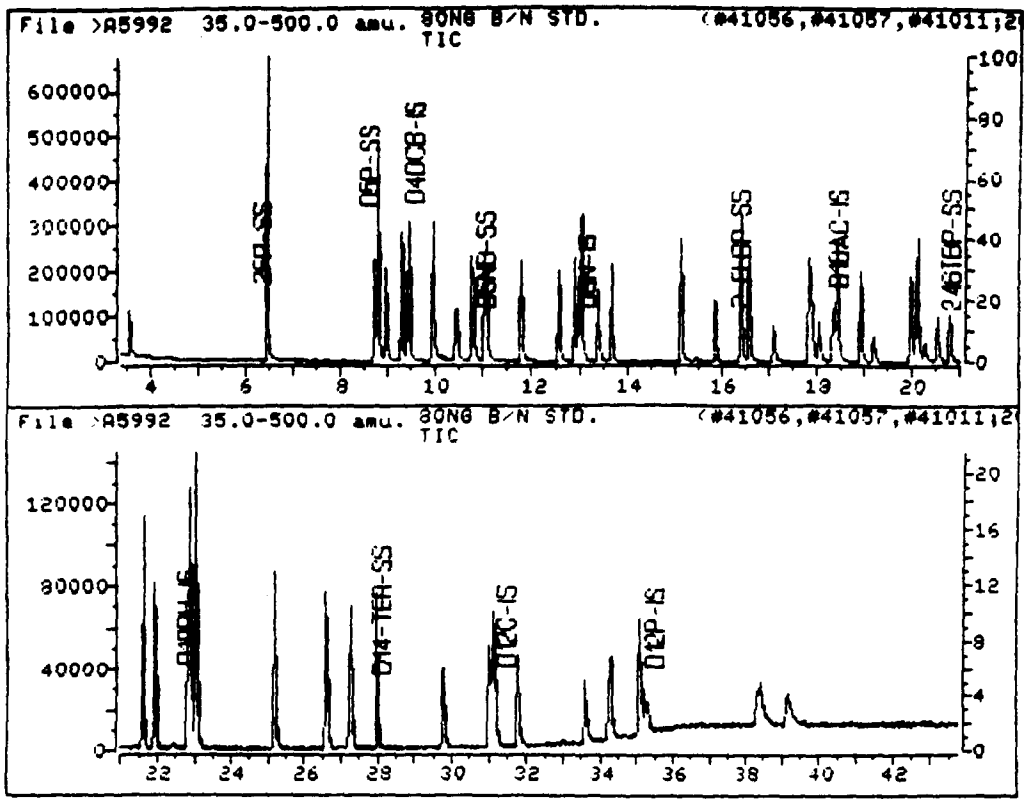
028-08



MS data file header from : >A5992

Sample: 80NG B/N STD. Operator: MIKE MS 9/05/86 17:24
Misc : (#41056,#41057,#41011;200UL EA.) IS=40NG(#41005;4UL) BTL# 8
Sys. #: 1A MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: BNAME1 Tuning file: BNATU1 No. of extra records: 1
Source temp.: 225 Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	2.0	8.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860905 18:11
Output File: ^A5992::AQ Injected at: 860905 17:24
Data File: >A5992::GG Dilution Factor: 1.000
Name: 8UNG B/N STD.
Misc: (#41056,#41057,#41011;200UL EA.) IS=40NG(#41005;4UL) BTL# 8

ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860903 22:52

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-D4 (IS)	9.41	368	62257	40.00	ug/L	84
2)	N-NITROSO DIMETHYL AMINE	3.57	11	51586	142.82	ug/L	82
4)	ANILINE	8.72	326	257394	86.05	ug/L	95
5)	BIS (2-CHLOROETHYL) ETHER	8.97	341	214663	82.21	ug/L	93
7)	1,3-DICHLOROBENZENE	9.30	361	188788	76.76	ug/L	93
8)	1,4-DICHLOROBENZENE	9.46	371	196346	73.94	ug/L	89
9)	BENZYL ALCOHOL	9.95	401	53236	141.98	ug/L	96
10)	1,2-DICHLOROBENZENE	9.93	400	172546	74.05	ug/L	90
12)	BIS (2-CHLOROISOPROPYL) ETHER	10.43	430	144384	100.12	ug/L	100
14)	N-NITROSO-DI-n-PROPYLAMINE	10.80	453	123687	92.27	ug/L	77
15)	HEXACHLOROETHANE	10.75	450	81454	84.46	ug/L	86
16)	2-FLUOROPHENOL (SS)	6.45	187	457152	239.94	ug/L	99
17)	PHENOL-D5 (SS)	8.79	330	524714	220.57	ug/L	94
18)	*NAPHTHALENE-D8 (IS)	12.98	586	214666	40.00	ug/L	100
19)	NITROBENZENE	11.08	470	171680	85.94	ug/L	82
20)	ISOPHORONE	11.77	512	333643	101.10	ug/L	97
24)	BIS(2-CHLOROETHOXY)METHANE	12.57	561	213661	83.31	ug/L	97
26)	1,2,4-TRICHLOROBENZENE	12.90	581	123593	70.59	ug/L	96
27)	NAPHTHALENE	13.04	590	465929	74.43	ug/L	94
28)	4-CHLOROANILINE	13.39	611	157393	81.48	ug/L	90
29)	HEXACHLOROBUTADIENE	13.68	629	72325	69.25	ug/L	84
31)	2-METHYLNAPHTHALENE	15.14	718	247867	74.32	ug/L	98
32)	NITROBENZENE-D5 (SS)	11.03	467	219353	111.60	ug/L	82
33)	*ACENAPHTHENE-D10(IS)	18.33	913	82049	40.00	ug/L	96
34)	HEXACHLOROCYCLOPENTADIENE	15.86	762	61355	63.05	ug/L	94
37)	2-CHLORONAPHTHALENE	16.58	806	210134	64.15	ug/L	90
38)	2-NITROANILINE	17.10	838	48781	104.47	ug/L	89
39)	DIMETHYL PHTHALATE	17.89	886	198923	97.44	ug/L	64
40)	ACENAPHTHYLENE	17.84	883	339753	72.57	ug/L	88
41)	3-NITROANILINE	18.38	916	43256	112.34	ug/L	74
42)	ACENAPHTHENE	18.41	918	189346	73.08	ug/L	82
45)	DIBENZOFURAN	18.92	949	262707	77.25	ug/L	84
46)	2,4-DINITROTOLUENE	19.18	965	39807	107.35	ug/L	75
47)	2,6-DINITROTOLUENE	18.04	895	39403	99.68	ug/L	83
48)	DIETHYL PHTHALATE	20.08	1020	188272	112.89	ug/L	94
49)	4-CHLOROPHENYL-PHENYL ETHER	20.10	1021	87708	83.31	ug/L	77
50)	FLUORENE	19.97	1013	193835	84.85	ug/L	98
51)	4-NITROANILINE	20.26	1031	28071	112.58	ug/L	66
52)	2-FLUOROBIPHENYL (SS)	16.40	795	321072	84.23	ug/L	100
53)	2,4,6-TRIBROMOPHENOL (SS)	20.77	1062	45195	264.19	ug/L	100
54)	*PHENANTHRENE-D10 (IS)	22.82	1187	87767	40.00	ug/L	100
56)	N-NITROSODIPHENYLAMINE	20.51	1046	98899	69.70	ug/L	89
57)	4-BROMOPHENYL-PHENYL ETHER	21.57	1111	49371	66.40	ug/L	92
58)	HEXACHLOROBENZENE	21.90	1131	37414	61.77	ug/L	93
60)	PHENANTHRENE	22.88	1191	171020	68.84	ug/L	85

2 2 0677
029-12

QUANT REPORT

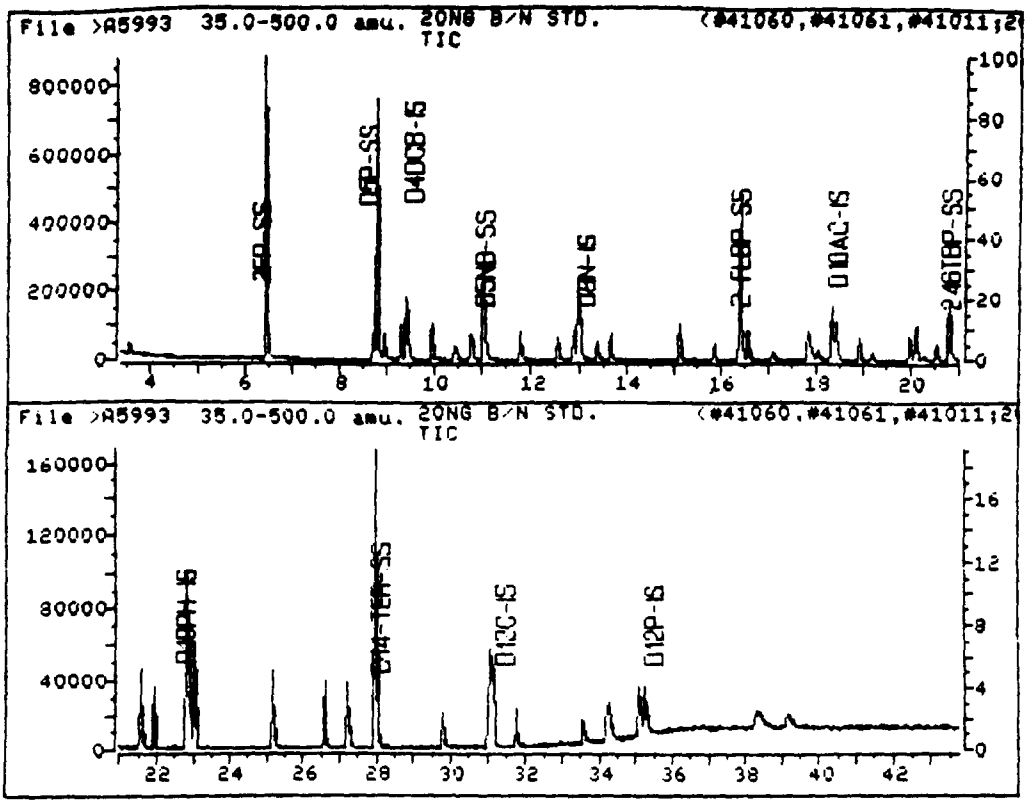
Operator ID: MIKE Quant Rev: 4 Quant Time: 860905 18:11
Output File: ^A5992::AQ Injected at: 860905 17:24
Data File: >A5992::GG Dilution Factor: 1.000
Name: 80NG B/N STD.
Misc: (#41056,#41057,#41011;200UL EA.) IS=40NG(#41005;4UL) BTL# 8

ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860903 22:52

	Compound	R.T.	Scan#	Area	Conc	Units	q
61)	ANTHRACENE	23.01	1199	206230	71.21	ug/L	85
62)	DI-n-BUTYL PHTHALATE	25.16	1330	174931	84.77	ug/L	100
63)	FLUORANTHENE	26.56	1416	126526	70.80	ug/L	92
64)	*CHRYSENE-D12 (IS)	31.06	1691	14699	40.00	ug/L	100
66)	PYRENE	27.22	1456	121178	78.02	ug/L	94
67)	BUTYLBENZYL PHTHALATE	29.77	1612	39312	95.19	ug/L	59
68)	3,3'-DICHLOROBENZIDINE	31.14	1696	15885	81.73	ug/L	100
69)	BENZO(a)ANTHRACENE	31.01	1688	77107	75.01	ug/L	86
70)	BIS(2-ETHYLHEXYL) PHTHALATE	31.73	1732	52890	96.13	ug/L	97
71)	CHRYSENE	31.13	1695	76691	73.94	ug/L	99
72)	TERPHENYL-D14 (SS)	27.95	1501	108850	102.66	ug/L	100
73)	*PERYLENE-D12 (IS)	35.23	1946	21152	40.00	ug/L	100
74)	DI-N-OCTYL PHTHALATE	33.58	1845	72344	110.17	ug/L	100
75)	BENZO(b)FLUORANTHENE	34.27	1887	127108	133.80	ug/L	84
76)	BENZO(k)FLUORANTHENE	34.27	1887	127108	133.80	ug/L	86
77)	BENZO(a)PYRENE	35.09	1937	117320	78.19	ug/L	89
78)	INDENO(1,2,3,cd)PYRENE	38.32	2134	69665	80.31	ug/L	80
79)	DIBENZ(a,h)ANTHRACENE	38.41	2140	41461	4941.36	ug/L	80
80)	BENZO(g,h,i)PERYLENE	39.15	2185	52084	78.89	ug/L	82

* Compound is ISTD

2 2 0678
028-09



MS data file header from : >A5993

Sample: 20NG B/N STD. Operator: MIKE MS 9/05/86 18:23
Misc : (#41060,#41061,#41011:200UL EA.) IS=40NG(#41005:4UL) BTL# 9
Sys. #: 1A MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: BNAME1 Tuning file: BNATU1 No. of extra records: 1
Source temp.: 225 Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	2.0	8.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

2 2 0679
029-13

QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860905 19:09
Output File: ^A5993::AQ Injected at: 860905 18:23
Data File: >A5993::GG Dilution Factor: 1.000
Name: 20NG B/N STD.
Misc: (#41060,#41061,#41011;200UL EA.) IS=40NG(#41005;4UL) BTL# 9

ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860903 22:52

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-D4 (IS)	9.40	368	84060	40.00	ug/L	82
2)	N-NITROSO DIMETHYL AMINE	3.57	12	16716	54.28	ug/L	83
4)	ANILINE	8.71	326	82145	20.34	ug/L	98
5)	BIS (2-CHLOROETHYL) ETHER	8.96	341	72562	20.58	ug/L	94
7)	1,3-DICHLOROBENZENE	9.30	362	64004	19.27	ug/L	90
8)	1,4-DICHLOROBENZENE	9.45	371	65807	18.35	ug/L	89
9)	BENZYL ALCOHOL	9.94	401	13521	26.71	ug/L	95
10)	1,2-DICHLOROBENZENE	9.94	401	60298	19.17	ug/L	87
12)	BIS (2-CHLOROISOPROPYL) ETHER	10.41	430	52593	27.01	ug/L	100
14)	N-NITROSO-DI-n-PROPYLAMINE	10.79	453	43195	23.87	ug/L	80
15)	HEXACHLOROETHANE	10.76	451	26291	20.19	ug/L	90
16)	2-FLUOROPHENOL (SS)	6.44	187	614888	239.02	ug/L	99
17)	PHENOL-D5 (SS)	8.79	331	713649	222.19	ug/L	94
18)	*NAPHTHALENE-D8 (IS)	12.98	587	507291	40.00	ug/L	100
19)	NITROBENZENE	11.07	470	66504	23.26	ug/L	83
20)	ISOPHORONE	11.77	513	118317	25.05	ug/L	90
24)	BIS(2-CHLOROETHOXY)METHANE	12.57	562	76698	20.89	ug/L	95
26)	1,2,4-TRICHLOROBENZENE	12.90	582	43207	17.24	ug/L	87
27)	NAPHTHALENE	13.03	590	163994	18.30	ug/L	93
28)	4-CHLOROANILINE	13.37	611	54675	19.77	ug/L	96
29)	HEXACHLOROBUTADIENE	13.67	629	25270	16.90	ug/L	82
31)	2-METHYLNAPHTHALENE	15.12	718	91042	19.07	ug/L	96
32)	NITROBENZENE-D5 (SS)	11.02	467	296746	105.47	ug/L	84
33)	*ACENAPHTHENE-D10(IS)	18.32	913	124260	40.00	ug/L	97
34)	HEXACHLOROCYCLOPENTADIENE	15.86	763	19338	13.12	ug/L	95
37)	2-CHLORONAPHTHALENE	16.58	807	78632	15.85	ug/L	89
39)	DIMETHYL PHTHALATE	18.33	914	21984	7.11	ug/L	87
40)	ACENAPHTHYLENE	17.84	884	123979	17.49	ug/L	88
42)	ACENAPHTHENE	18.41	919	69822	17.79	ug/L	82
45)	DIBENZOFURAN	18.91	949	99428	19.31	ug/L	84
46)	2,4-DINITROTOLUENE	19.18	966	15351	27.33	ug/L	69
47)	2,6-DINITROTOLUENE	18.04	896	13708	22.90	ug/L	68
48)	DIETHYL PHTHALATE	20.08	1021	71305	28.23	ug/L	95
49)	4-CHLOROPHENYL-PHENYL ETHER	20.10	1022	32877	20.62	ug/L	76
50)	FLUORENE	19.97	1014	71871	20.77	ug/L	96
52)	2-FLUOROBIPHENYL (SS)	16.40	796	462809	80.17	ug/L	100
53)	2,4,6-TRIBROMOPHENOL (SS)	20.77	1063	74270	286.67	ug/L	100
54)	*PHENANTHRENE-D10 (IS)	22.80	1187	153593	40.00	ug/L	100
56)	N-NITROSODIPHENYLAMINE	20.51	1047	40602	16.35	ug/L	89
57)	4-BROMOPHENYL-PHENYL ETHER	21.57	1112	18894	14.52	ug/L	95
58)	HEXACHLOROBENZENE	21.90	1132	16008	15.10	ug/L	91
60)	PHENANTHRENE	22.88	1192	73268	16.85	ug/L	83
61)	ANTHRACENE	23.01	1200	92753	18.30	ug/L	84

2 2 0600
029-14

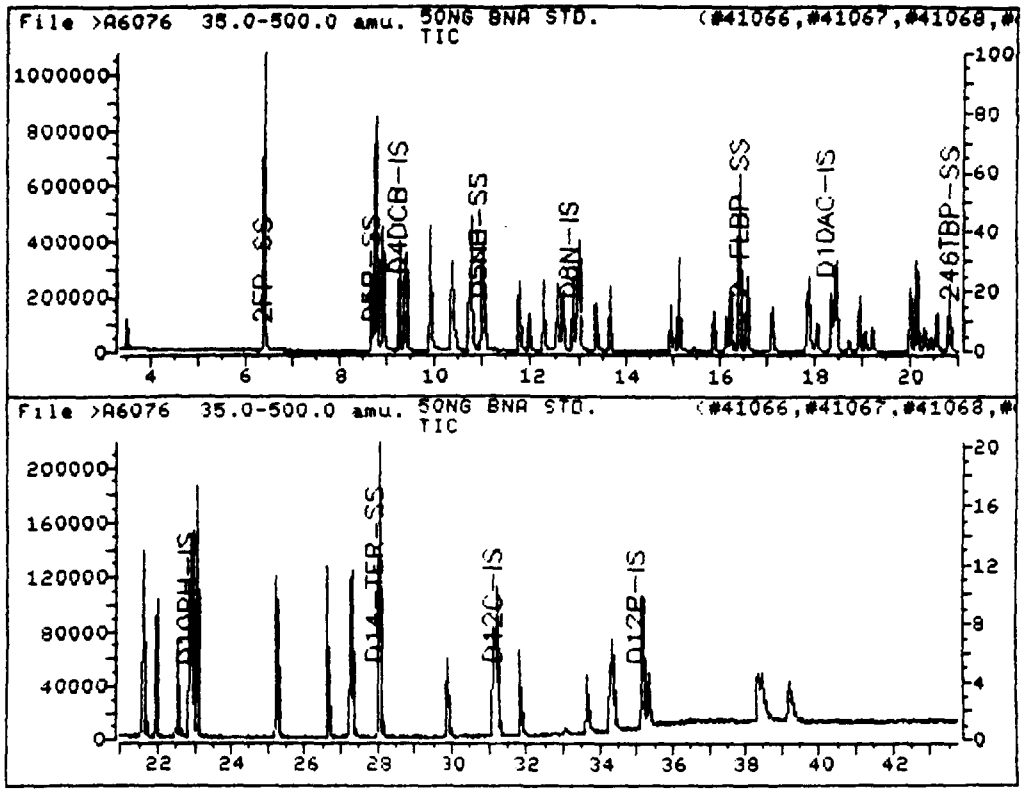
QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860905 19:09
Output File: ^A5993::AQ Injected at: 860905 18:23
Data File: >A5993::GG Dilution Factor: 1.000
Name: 20NG B/N STD.
Misc: (#41060,#41061,#41011;200UL EA.) IS=40NG(#41005;4UL) BTL# 9

ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860903 22:52

	Compound	R.T.	Scan#	Area	Conc	Units	q
62)	DI-n-BUTYL PHTHALATE	25.15	1331	88026	24.38	ug/L	100
63)	FLUORANTHENE	26.56	1417	64830	20.73	ug/L	92
64)	*CHRYSENE-D12 (IS)	31.06	1692	33394	40.00	ug/L	100
66)	PYRENE	27.22	1457	63450	17.98	ug/L	91
67)	BUTYLBENZYL PHTHALATE	29.77	1613	20812	22.18	ug/L	63
68)	3,3'-DICHLOROBENZIDINE	31.12	1696	8139	18.43	ug/L	100
69)	BENZO(a)ANTHRACENE	31.01	1689	43125	18.47	ug/L	85
70)	BIS(2-ETHYLHEXYL) PHTHALATE	31.73	1733	26180	20.95	ug/L	95
71)	CHRYSENE	31.12	1696	43126	18.30	ug/L	98
72)	TERPHENYL-D14 (SS)	27.95	1502	232274	96.43	ug/L	100
73)	*PERYLENE-D12 (IS)	35.23	1947	46184	40.00	ug/L	100
74)	DI-N-OCTYL PHTHALATE	33.56	1845	31793	22.17	ug/L	100
75)	BENZO(b)FLUORANTHENE	34.27	1888	50779	24.48	ug/L	84
76)	BENZO(k)FLUORANTHENE	34.27	1888	50779	24.48	ug/L	86
77)	BENZO(a)PYRENE	35.08	1938	60405	18.44	ug/L	85
78)	INDENO(1,2,3,cd)PYRENE	38.31	2135	33711	17.80	ug/L	85
79)	DIBENZ(a,h)ANTHRACENE	38.43	2142	19668	1073.56	ug/L	92
80)	BENZO(g,h,i)PERYLENE	39.15	2186	25159	17.45	ug/L	86

* Compound is ISTD



MS data file header from : >A6076

Sample: 50NG BNA STD. Operator: MIKE MS 9/22/86 11:43
Misc : (#41066,#41067,#41068,#41069:75UL EA.) IS=40NG(#41005:BTL# 1
Sys. #: 1A MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: BNAME1 Tuning file: BNATU1 No. of extra records: 1
Source temp.: 225 Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	2.0	8.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860922 13:50
Output File: ^A6076::AQ Injected at: 860922 11:43
Data File: >A6076::DD Dilution Factor: 1.000
Name: 50NG BNA STD.
Misc: (#41066,#41067,#41068,#41069;75UL EA.) IS=40NG(#41005;BTL# 1

ID File: SNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860922 13:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-D4 (IS)	9.39	388	100866	40.00	ug/L	8
2)	N-NITROSO DIMETHYL AMINE	5.52	22	52499	50.00	ug/L	7
3)	PHENOL	8.80	344	213439	50.00	ug/L	8
4)	ANILINE	8.48	332	235504	50.00	ug/L	9
5)	BIS (2-CHLOROETHYL) ETHER	8.93	352	215680	50.00	ug/L	8
6)	2-CHLOROPHENOL	8.95	352	172253	50.00	ug/L	9
7)	1,3-DICHLOROBENZENE	9.27	375	192078	50.00	ug/L	9
8)	1,4-DICHLOROBENZENE	9.42	382	199244	50.00	ug/L	9
9)	BENZYL ALCOHOL	9.91	412	85665	50.00	ug/L	9
10)	1,2-DICHLOROBENZENE	9.91	412	180580	50.00	ug/L	8
11)	2-METHYLPHENOL	10.35	439	158994	50.00	ug/L	9
12)	BIS (2-CHLOROISOPROPYL) ETHER	10.40	442	144180	50.00	ug/L	10
13)	4-METHYLPHENOL	10.78	465	153059	50.00	ug/L	9
14)	N-NITROSO-DI-n-PROPYL AMINE	10.78	465	122532	50.00	ug/L	7
15)	HEXACHLOROETHANE	10.73	462	79443	50.00	ug/L	8
16)	2-FLUOROPHENOL (SS)	6.41	172	681871	200.00	ug/L	9
17)	PHENOL-D5 (SS)	8.78	343	789342	200.00	ug/L	8
18)	*NAPHTHALENE-D8 (IS)	12.92	599	551591	40.00	ug/L	10
19)	NITROBENZENE	11.06	482	181191	50.00	ug/L	7
20)	ISOPHORONE	11.26	505	521155	50.00	ug/L	9
21)	2-NITROPHENOL	11.92	548	69297	50.00	ug/L	7
22)	2,4-DIMETHYLPHENOL	12.22	566	121264	50.00	ug/L	9
23)	BENZOIC ACID	12.69	582	85364	80.00	ug/L	8
24)	BIS(2-CHLOROETHOXY)METHANE	12.56	574	212829	50.00	ug/L	9
25)	2,4-DICHLOROPHENOL	12.66	580	183869	50.00	ug/L	9
26)	1,2,4-TRICHLOROBENZENE	12.89	594	151106	50.00	ug/L	9
27)	NAPHTHALENE	13.02	602	468845	50.00	ug/L	9
28)	4-CHLOROANILINE	13.58	634	162115	50.00	ug/L	9
29)	HEXACHLOROBUTADIENE	13.68	640	72613	50.00	ug/L	8
30)	4-CHLORO-3-METHYLPHENOL	14.92	711	184869	50.00	ug/L	8
31)	2-METHYLNAPHTHALENE	15.13	731	254595	50.00	ug/L	9
32)	NITROBENZENE-D5 (SS)	11.01	479	545239	100.00	ug/L	8
33)	*ACENAPHTHENE-D10 (IS)	18.34	921	156368	40.00	ug/L	9
34)	HEXACHLOROCYCLOPENTADIENE	15.92	776	59733	50.00	ug/L	9
35)	2,4,6-TRICHLOROPHENOL	16.15	794	41426	50.00	ug/L	9
36)	2,4,5-TRICHLOROPHENOL	16.23	799	89920	80.00	ug/L	9
37)	2-CHLORONAPHTHALENE	16.59	820	234085	50.00	ug/L	9
38)	2-NITROANILINE	17.12	852	84510	80.00	ug/L	8
39)	DIMETHYL PHTHALATE	17.90	900	191951	50.00	ug/L	7
40)	ACENAPHTHYLENE	17.95	897	342631	50.00	ug/L	8
41)	3-NITROANILINE	18.41	927	68043	80.00	ug/L	7
42)	ACENAPHTHENE	18.44	929	194300	50.00	ug/L	8
43)	2,4-DINITROPHENOL	18.71	949	12951	80.00	ug/L	9
44)	4-NITROPHENOL	19.05	970	18314	80.00	ug/L	9
45)	DIBENZOFURAN	18.93	962	259041	50.00	ug/L	8

QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860922 13:50
Output File: ^A6076::AW Injected at: 860922 11:43
Data File: >A6076::DD Dilution Factor: 1.000
Name: 50NG BNA STD.
Misc: (#41066,#41067,#41068,#41069;75UL EA.) IS=40NG(#41005;BTL# 1

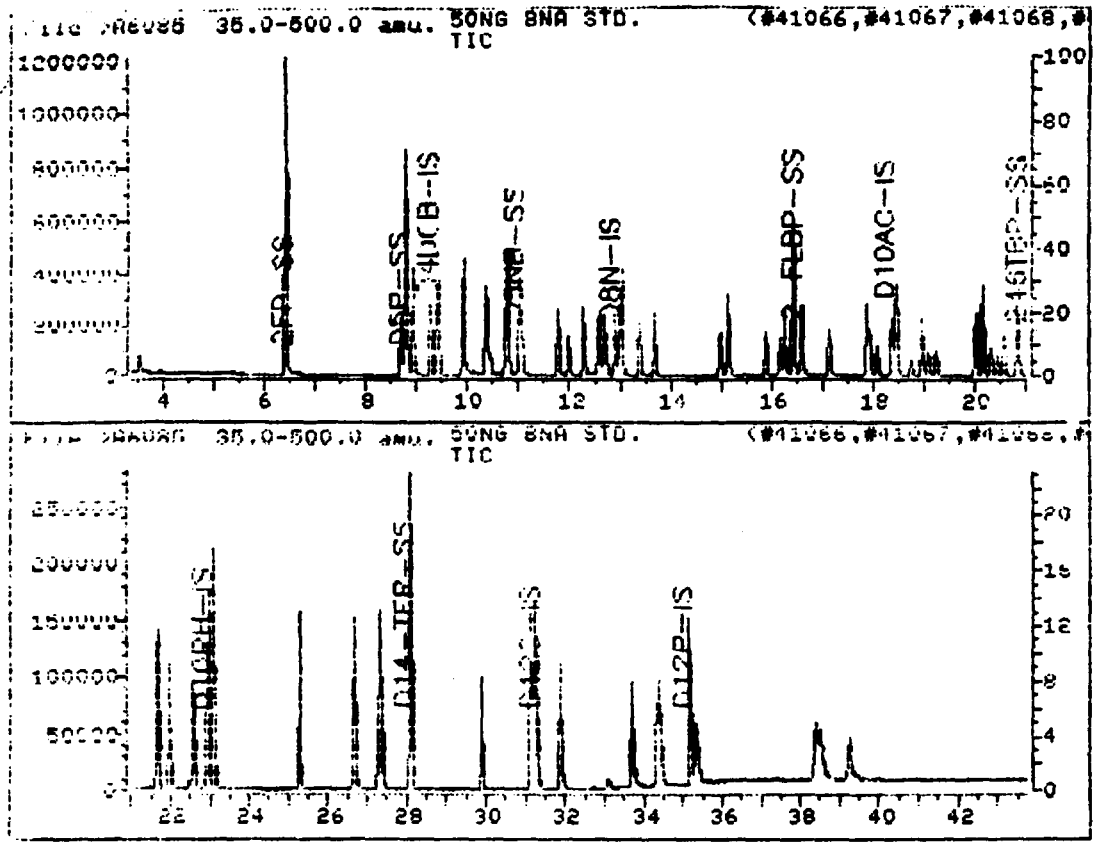
ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860922 13:00

	Compound	R.T.	Scan#	Area	Conc	Units	
46)	2,4-DINITROTOLUENE	19.21	980	48910	50.00	ug/L	7
47)	2,6-DINITROTOLUENE	18.05	909	43027	50.00	ug/L	9
48)	DIETHYL PHTHALATE	20.13	1036	189091	50.00	ug/L	9
49)	4-CHLOROPHENYL-PHENYL ETHER	20.13	1036	88355	50.00	ug/L	7
50)	FLUORENE	20.00	1028	194665	50.00	ug/L	9
51)	4-NITROANILINE	20.29	1046	53309	80.00	ug/L	7
52)	2-FLUOROBIPHENYL (SS)	16.41	809	508940	100.00	ug/L	10
53)	2,4,6-TRIBROMOPHENOL (SS)	20.82	1078	82637	200.00	ug/L	10
54)	*PHENANTHRENE-D10 (IS)	22.85	1202	148467	40.00	ug/L	10
55)	4,6-DINITRO-2-METHYLPHENOL	20.42	1054	19464	80.00	ug/L	8
56)	N-NITROSODIPHENYLAMINE	20.56	1062	109071	50.00	ug/L	8
57)	4-BROMOPHENYL-PHENYL ETHER	21.60	1126	49238	50.00	ug/L	9
58)	HEXACHLOROBENZENE	21.93	1146	43450	50.00	ug/L	9
59)	PENTACHLOROPHENOL	22.54	1183	25683	80.00	ug/L	10
60)	PHENANTHRENE	22.93	1207	188424	50.00	ug/L	8
61)	ANTHRACENE	23.06	1215	223013	50.00	ug/L	8
62)	DI-n-BUTYL PHTHALATE	25.22	1347	202089	50.00	ug/L	10
63)	FLUORANTHENE	26.63	1433	166618	50.00	ug/L	9
64)	*CHRYSENE-D12 (IS)	31.14	1709	33282	40.00	ug/L	10
65)	BENZIDINE	27.25	1471	52507	80.00	ug/L	10
66)	PYRENE	27.30	1474	160695	50.00	ug/L	9
67)	BUTYLBENZYL PHTHALATE	29.85	1630	47801	50.00	ug/L	9
68)	3,3'-DICHLOROBENZIDINE	31.23	1714	23046	50.00	ug/L	10
69)	BENZO(a)ANTHRACENE	31.09	1706	115595	50.00	ug/L	8
70)	BIS(2-ETHYLHEXYL) PHTHALATE	31.83	1751	63886	50.00	ug/L	9
71)	CHRYSENE	31.23	1714	110658	50.00	ug/L	9
72)	TERPHENYL-D14 (SS)	28.04	1519	235547	100.00	ug/L	10
73)	*PERYLENE-D12 (IS)	35.31	1963	49259	40.00	ug/L	10
74)	DI-N-OCTYL PHTHALATE	33.67	1863	82478	50.00	ug/L	10
75)	BENZO(b)FLUORANTHENE	34.29	1901	78337	50.00	ug/L	10
76)	BENZO(k)FLUORANTHENE	34.35	1905	107661	50.00	ug/L	10
77)	BENZO(a)PYRENE	35.14	1953	173299	50.00	ug/L	8
78)	INDENO(1,2,3,cd)PYRENE	38.36	2149	111557	50.00	ug/L	8
79)	DIBENZ(a,h)ANTHRACENE	38.47	2156	66444	50.00	ug/L	7
80)	BENZO(g,h,i)PERYLENE	39.21	2201	81827	50.00	ug/L	7

* Compound is ISTD

POOR LEGIBILITY

PORTIONS OF THIS DOCUMENT MAY BE UNREADABLE, DUE TO THE QUALITY OF THE ORIGINAL



MS data file header from : >A6085

Sample: 50NG BNA STD. Operator: MIKE MS 9/22/86 [illegible]
Mass : (#41066,#41067,#41068,#41069;25UL EA.) IS=40NG(#41005;BTL# 1
Sys. #: 1 MS model: 87 SW/HW rev.: LA ALS # : 0
Method file: BNAME1 Tuning file: BNATU1 No. of extra records: 1
Source temp.: 225 Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	2.0	8.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

2 2 0685
029-17

QUANT REPORT

ator ID: MIKE Quant Rev: 4 Quant Time: 860922 22:5[illegible]
put File: ^A6085::AQ Injected at: 860922 21:10
Data File: >A6085::UD Dilution Factor: 1.00
Name: 50NG BNA STD.
Misc: (#41066,#41067,#41068,#41069;75UL EA.) IS=40NG(#41005;BTL# 1

ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860922 22:34

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-D4 (IS)	9.39	381	102394	40.00	ug/L	81
2)	N-NITROSO DIMETHYL AMINE	5.55	24	54743	50.00	ug/L	4
3)	PHENOL	8.82	346	227797	50.00	ug/L	81
4)	ANILINE	8.70	339	253379	50.00	ug/L	99
5)	BIS (2-CHLOROETHYL) ETHER	8.95	354	222928	50.00	ug/L	92
6)	2-CHLOROPHENOL	8.93	353	186671	50.00	ug/L	91
7)	1,3-DICHLOROBENZENE	9.28	374	198561	50.00	ug/L	92
8)	1,4-DICHLOROBENZENE	9.44	384	211889	50.00	ug/L	94
9)	BENZYL ALCOHOL	9.93	414	78187	50.00	ug/L	93
10)	1,2-DICHLOROBENZENE	9.93	414	185746	50.00	ug/L	86
11)	2-METHYLPHENOL	10.37	441	173605	50.00	ug/L	94
12)	BIS (2-CHLOROISOPROPYL) ETHER	10.41	443	138158	50.00	ug/L	100
13)	4-METHYLPHENOL	10.80	467	165972	50.00	ug/L	98
[illegible]	N-NITROSO-DI-n-PROPYLAMINE	10.80	467	150022	50.00	ug/L	[illegible]
[illegible]	HEXACHLOROETHANE	10.75	464	86150	50.00	ug/L	88
16)	2-FLUOROPHENOL (SS)	6.43	280	140501	200.00	ug/L	9[illegible]
17)	PHENOL-D5 (SS)	8.80	345	892661	200.00	ug/L	91
18)	*NAPHTHALENE-D8 (IS)	12.98	600	168291	40.00	ug/L	100
19)	NITROBENZENE	11.08	484	135779	50.00	ug/L	80
20)	ISOPHORONE	11.28	522	343536	50.00	ug/L	92
21)	2-NITROPHENOL	11.99	540	87227	50.00	ug/L	73
22)	2,4-DIMETHYLPHENOL	12.29	558	126611	50.00	ug/L	94
23)	BENZOIC ACID	12.75	586	122640	80.00	ug/L	89
24)	BIS(2-CHLOROETHOXY)METHANE	12.58	576	229478	50.00	ug/L	9[illegible]
25)	2,4-DICHLOROPHENOL	12.68	582	115783	50.00	ug/L	95
26)	1,2,4-TRICHLOROBENZENE	12.90	595	129516	50.00	ug/L	91
27)	NAPHTHALENE	13.04	614	493273	50.00	ug/L	95
28)	4-CHLOROANILINE	13.39	625	179170	50.00	ug/L	9[illegible]
29)	HEXACHLOROBUTADIENE	13.68	643	81074	50.00	ug/L	82
30)	4-CHLORO-3-METHYLPHENOL	14.99	723	122443	50.00	ug/L	87
31)	2-METHYLNAPHTHALENE	15.15	733	264705	50.00	ug/L	99
32)	NITROBENZENE-D5 (SS)	11.03	481	3[illegible]6[illegible]3	100.00	ug/L	[illegible]
33)	*ACENAPHTHENE-D10(IS)	18.36	979	140353	40.00	ug/L	95
34)	HEXACHLOROCYCLOPENTADIENE	15.89	778	69562	50.00	ug/L	9[illegible]
35)	2,4,6-TRICHLOROPHENOL	16.15	794	57874	50.00	ug/L	98
36)	2,4,5-TRICHLOROPHENOL	16.25	800	114457	80.00	ug/L	9[illegible]
37)	2-CHLORONAPHTHALENE	16.61	822	225040	50.00	ug/L	90
38)	2-NITROANILINE	17.14	854	9[illegible]495	80.00	ug/L	[illegible]
39)	DIMETHYL PHTHALATE	17.92	902	216414	50.00	ug/L	65
[illegible]	ACENAPHTHYLENE	1[illegible].97	899	565932	50.00	ug/L	[illegible]
[illegible]	3-NITROANILINE	18.43	933	82619	80.00	ug/L	[illegible]
42)	ACENAPHTHENE	18.46	935	284799	50.00	ug/L	[illegible]
43)	2,4-DINITROPHENOL	18.74	952	29291	80.00	ug/L	91
44)	4-NITROPHENOL	19.08	973	50790	80.00	ug/L	[illegible]
45)	DIBENZOFURAN	18.95	965	280878	50.00	ug/L	8[illegible]

2 2 0686

629-18

QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860922 22:55
Output File: ^A6085::AQ Injected at: 860922 21:10
Data File: >A6085::UD Dilution Factor: 1.00
Name: 50NG BNA STD.
Misc: (#41066,#41067,#41068,#41069;75UL EA.) IS=40NG(#41005;BIL# 1

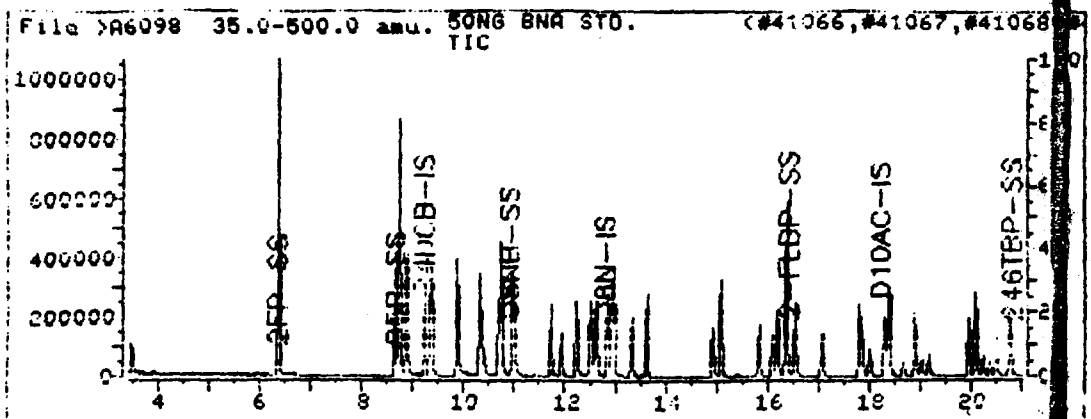
ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860922 22:34

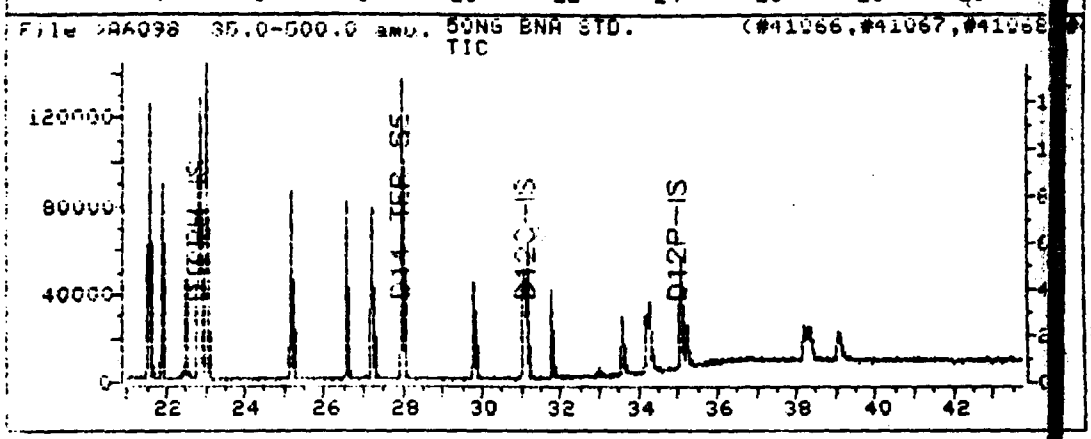
	Compound	R.T.	Scan#	Area	Conc	Units	q
46)	2,4-DINITROTOLUENE	19.23	992	59432	50.00	ug/L	[illegible]
47)	2,6-DINITROTOLUENE	18.07	911	47303	50.00	ug/L	78
48)	DIETHYL PHTHALATE	20.15	1038	211749	50.00	ug/L	93
49)	4-CHLOROPHENYL-PHENYL ETHER	20.15	1038	94484	50.00	ug/L	73
50)	FLUORENE	20.02	1030	211619	50.00	ug/L	98
51)	4-NITROANILINE	20.31	1048	70289	80.00	ug/L	75
52)	2-FLUOROBIPHENYL (SS)	16.43	811	530536	100.00	ug/L	100
53)	2,4,6-TRIBROMOPHENOL (SS)	20.84	1080	100871	200.00	ug/L	100
54)	*PHENANTHRENE-D10 (IS)	22.87	1204	168117	40.00	ug/L	100
55)	4,6-DINITRO-2-METHYLPHENOL	20.44	1056	31937	80.00	ug/L	92
56)	N-NITROSODIPHENYLAMINE	20.58	1064	125879	50.00	ug/L	89
57)	4-BROMOPHENYL-PHENYL ETHER	21.62	1128	53917	50.00	ug/L	95
58)	HEXACHLOROBENZENE	21.95	1148	42558	50.00	ug/L	94
[illegible]	PENTACHLOROPHENOL	22.56	1185	35102	80.00	ug/L	100
[illegible]	PHENANTHRENE	22.93	1208	216119	50.00	ug/L	81
[illegible]	ANTHRACENE	23.08	1217	254582	50.00	ug/L	79
62)	DI-n-BUTYL PHTHALATE	25.24	1349	252524	50.00	ug/L	100
63)	FLUORANTHENE	26.65	1435	207861	50.00	ug/L	89
64)	*CHRYSENE-D12 (IS)	31.16	1711	46038	40.00	ug/L	100
65)	BENZIDINE	27.27	1473	88653	80.00	ug/L	100
66)	PYRENE	27.32	1476	210060	50.00	ug/L	97
67)	BUTYLBENZYL PHTHALATE	29.87	1632	84631	50.00	ug/L	58
68)	3,3'-DICHLOROBENZIDINE	31.24	1716	56444	50.00	ug/L	100
69)	BENZO(a)ANTHRACENE	31.13	1709	156512	50.00	ug/L	85
70)	BIS(2-ETHYLHEXYL) PHTHALATE	31.85	1753	115726	50.00	ug/L	99
71)	CHRYSENE	31.24	1716	149419	50.00	ug/L	98
72)	TERPHENYL-D14 (SS)	28.05	1521	307465	100.00	ug/L	100
73)	*PERYLENE-D12 (IS)	35.32	1965	64803	40.00	ug/L	100
74)	DI-N-OCTYL PHTHALATE	33.68	1865	159955	50.00	ug/L	100
75)	BENZO(b)FLUORANTHENE	34.32	1904	158825	50.00	ug/L	100
76)	BENZO(k)FLUORANTHENE	34.37	1907	153344	50.00	ug/L	100
77)	BENZO(a)PYRENE	35.17	1956	232286	50.00	ug/L	88
78)	INDENO(1,2,3,cd)PYRENE	38.39	2152	149464	50.00	ug/L	[illegible]
79)	DIBENZ(a,h)ANTHRACENE	38.50	2159	96323	50.00	ug/L	75
80)	BENZO(g,h,i)PERYLENE	39.24	2204	97464	50.00	ug/L	[illegible]

* Compound is ISTD

0687

8-12





MS data file header from : >A6098

Sample: 50NG BNA STD. Operator: MIKE MS 9/23/86
Misc : (#41066,#41067,#41068,#41069;75UL EA.) IS=40NG(#41000);BTL# 1
Sys. #: 1A MS model: 87 SW/HW rev.: 1A ALS # : 0
Method file: BNAME1 Tuning file: BNATU1 No. of extra records:
Source temp.: 250 Analyzer temp.: 250 Transfer line temp. : 0

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	2.0	8.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860923 17:50
Output File: ^A6098::AQ Injected at: 860923 15:12
Data File: >A6098::DD Dilution Factor: 1.00
Name: 50NG BNA STD.
Misc: (#41066,#41067,#41068,#41069;75UL EA.) IS=40NG(#41005;BTL# 1

ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860923 17:20

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-D4 (IS)	9.34	374	106395	40.00	ug/L	84
2)	N-NITROSO DIMETHYL AMINE	5.49	17	[illegible]	50.00	ug/L	[illegible]
3)	PHENOL	8.76	339	287597	50.00	ug/L	76
4)	ANILINE	8.45	332	[illegible]	50.00	ug/L	[illegible]
5)	BIS (2-CHLOROETHYL) ETHER	8.89	347	222157	50.00	ug/L	91
6)	2-CHLOROPHENOL	9.08	356	195462	50.00	ug/L	[illegible]
7)	1,3-DICHLOROBENZENE	9.22	362	201436	50.00	ug/L	91
8)	1,4-DICHLOROBENZENE	9.39	372	[illegible]	50.00	ug/L	[illegible]
9)	BENZYL ALCOHOL	9.88	407	67653	50.00	ug/L	94
10)	1,2 DICHLOROBENZENE	9.98	412	194762	50.00	ug/L	[illegible]
11)	2-METHYLPHENOL	10.32	434	165307	50.00	ug/L	91
12)	BIS (2 CHLOROISOPROPYL) ETHER	10.45	436	195494	50.00	ug/L	100
)	4-METHYLPHENOL	10.75	460	159276	50.00	ug/L	97
)	N-NITROSO DI-n PROPYLAMINE	10.75	461	[illegible]	50.00	ug/L	
)	HEXACHLOROETHANE	10.70	457	84448	50.00	ug/L	91
16)	2-FLUOROPHENOL (SS)	6.32	193	[illegible]	200.00	ug/L	[illegible]
17)	PHENOL-D5 (SS)	8.75	338	[illegible]	200.00	ug/L	91
18)	*NAPHTHALENE-D8 (IS)	12.92	545	[illegible]	40.00	ug/L	1
19)	NITROBENZENE	11.01	476	[illegible]	50.00	ug/L	81
20)	ISOPHORONE	11.71	529	[illegible]	50.00	ug/L	[illegible]
21)	2-NITROPHENOL	11.92	542	82839	50.00	ug/L	80
22)	2,4 DIMETHYLPHENOL	12.24	561	[illegible]	50.00	ug/L	[illegible]
23)	BENZOIC ACID	12.66	[illegible]	112511	80.00	ug/L	8[illegible]
24)	BIS(2-CHLOROETHOXY)METHANE	12.31	568	[illegible]	50.00	ug/L	[illegible]
25)	2,4-DICHLOROPHENOL	12.65	575	111521	50.00	ug/L	91
26)	1,2,4-TRICHLOROBENZENE	12.74	588	[illegible]	50.00	ug/L	[illegible]
27)	NAPHTHALENE	12.92	596	475421	50.00	ug/L	95
28)	4-CHLOROANILINE	13.33	618	[illegible]	50.00	ug/L	[illegible]
29)	HEXACHLOROBUTADIENE	13.63	616	[illegible]	50.00	ug/L	80
30)	4-CHLORO-3 METHYLPHENOL	14.02	5	[illegible]	50.00	ug/L	[illegible]
31)	2-METHYLNAPHTHALENE	15.08	725	255792	50.00	ug/L	95
32)	NITROBENZENE-D5 (SS)	10.96	475	[illegible]	100.00	ug/L	[illegible]
33)	*ACENAPHTHENE-D10 (IS)	18.29	921	124800	40.00	ug/L	[illegible]
34)	HEXACHLOROCYCLOPENTADIENE	14.92	[illegible]	[illegible]	50.00	ug/L	[illegible]
35)	2,4,6-TRICHLOROPHENOL	16.10	787	[illegible]	50.00	ug/L	95
36)	2,4,5-TRICHLOROPHENOL	16.18	[illegible]	[illegible]	80.00	ug/L	[illegible]
37)	2-CHLORONAPHTHALENE	16.54	814	[illegible]	50.00	ug/L	89
38)	2 NITROANILINE	[illegible]	45	[illegible]	80.00	ug/L	[illegible]
)	DIMETHYL PHTHALATE	17.85	844	170642	50.00	ug/L	84
)	ACENAPHTHYLENE	[illegible]	841	[illegible]	50.00	ug/L	[illegible]
1)	3-NITROANILINE	19.34	914	[illegible]	80.00	ug/L	5[illegible]
42)	ACENAPHTHENE	19.48	926	[illegible]	50.00	ug/L	[illegible]
43)	2,4-DINITROPHENOL	18.65	941	18847	80.00	ug/L	82
44)	4-NITROPHENOL	19.02	955	[illegible]	80.00	ug/L	[illegible]

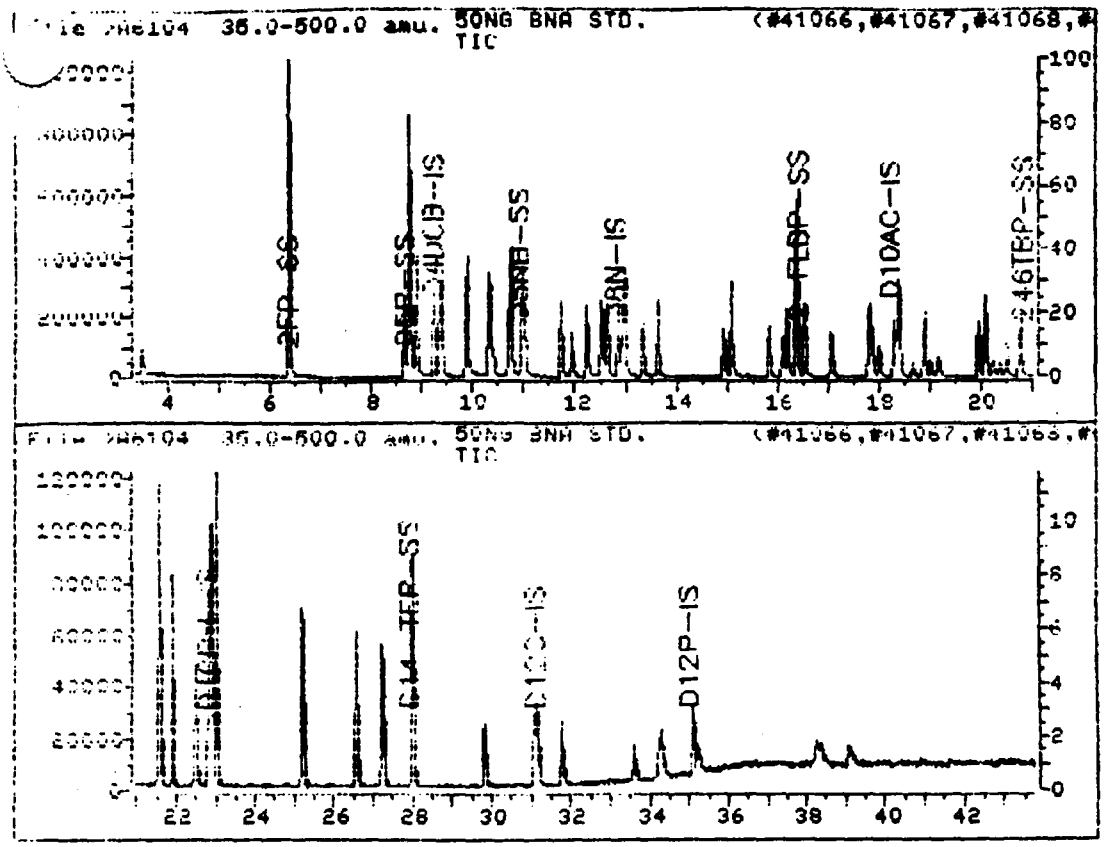
QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860923 17:50
Output File: ^A6098::AQ Injected at: 860923 15:12
Data File: >A6098::OD Dilution Factor: 1.00
Name: 50NG BNA STD.
Misc: (#41066,#41067,#41068,#41069;75UL EA.) IS=40NG(#41005;BTL# 1

ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860923 17:20

	Compound	R.T.	Scan#	Area	Conc	Units	q
45)	DIBENZOFURAN	18.88	952	252388	50.00	ug/L	81
46)	2,4-DINITROTOLUENE	19.16	974	[illegible]	50.00	ug/L	[illegible]
47)	2,6-DINITROTOLUENE	18.00	905	57668	50.00	ug/L	81
48)	DIETHYL PHTHALATE	20.06	1029	165768	50.00	ug/L	[illegible]
49)	4-CHLOROPHENYL-PHENYL ETHER	20.08	1030	77706	50.00	ug/L	70
50)	FLUORENE	19.95	1022	165457	50.00	ug/L	[illegible]
51)	4-NITROANILINE	20.23	1039	37103	80.00	ug/L	67
52)	2-FLUOROBIPHENYL (SS)	16.56	903	494408	100.00	ug/L	[illegible]
53)	2,4,6-TRIBROMOPHENOL (SS)	20.75	1071	76438	200.00	ug/L	100
54)	*PHENANTHRENE-D10 (IS)	22.40	1196	112546	40.00	ug/L	[illegible]
55)	4,6-DINITRO-2-METHYLPHENOL	20.36	1047	18584	80.00	ug/L	90
[illegible]	N-NITROSODIPHENYLAMINE	20.49	1055	82905	50.00	ug/L	[illegible]
[illegible]	4-BROMOPHENYL-PHENYL ETHER	21.55	1120	41963	50.00	ug/L	90
[illegible]	PENTACHLOROPHENOL	22.49	1172	[illegible]	80.00	ug/L	[illegible]
60)	PHENANTHRENE	22.86	1200	145014	50.00	ug/L	78
61)	ANTHRACENE	22.99	1208	[illegible]	50.00	ug/L	[illegible]
62)	DI-n-BUTYL PHTHALATE	25.17	1341	146518	50.00	ug/L	100
63)	FLUORANTHENE	27.56	1476	103003	50.00	ug/L	[illegible]
64)	*CHRYSENE-D12 (IS)	31.07	1702	18245	40.00	ug/L	100
65)	BENZIDINE	27.18	1454	[illegible]	80.00	ug/L	[illegible]
66)	PYRENE	27.21	1456	173962	50.00	ug/L	89
67)	BUTYLBENZYL PHTHALATE	29.78	[illegible]	[illegible]	[illegible]	ug/L	[illegible]
68)	3,3'-DICHLOROBENZIDINE	31.15	1787	10484	50.00	ug/L	100
69)	BENZO(a)ANTHRACENE	31.02	[illegible]	[illegible]	50.00	ug/L	[illegible]
70)	BIS(2-ETHYLHEXYL) PHTHALATE	31.76	1744	41733	50.00	ug/L	98
71)	CHRYSENE	31.14	[illegible]	[illegible]	50.00	ug/L	[illegible]
72)	TERPHENYL-D14 (SS)	27.97	1512	145014	100.00	ug/L	100
73)	*PERYLENE-D12 (IS)	35.21	[illegible]	[illegible]	40.00	ug/L	[illegible]
74)	DI-N-OCTYL PHTHALATE	33.59	1856	50965	50.00	ug/L	100
75)	BENZO(b)FLUORANTHENE	34.20	[illegible]	[illegible]	50.00	ug/L	[illegible]
76)	BENZO(k)FLUORANTHENE	34.26	1897	56278	50.00	ug/L	100
77)	BENZO(a)PYRENE	[illegible]	[illegible]	[illegible]	[illegible]	ug/L	[illegible]
78)	INDENO(1,2,3,cd)PYRENE	39.06	2190	52871	50.00	ug/L	85
79)	DIBENZ(a,h)ANTHRACENE	[illegible]	[illegible]	[illegible]	50.00	ug/L	[illegible]
80)	BENZO(g,h,i)PERYLENE	39.06	2190	52871	50.00	ug/L	76

* Compound is IS10



MS data file header from : >A6104

Sample: 50NG BNA STD. Operator: MIKE MS 9/24/86 8:35
Mass : (#41066,#41067,#41068,#41069;25UL EA.) IS=40NG(#41005;BTL# 1
Sys. #: 1A MS mode: EI SW/HW rev.: CA ALS # : 0
Method file: BNAMS1 Tuning file: BNATU1 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	2.0	8.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860924 09:51
Output File: ^A6104::AQ Injected at: 860924 08:36
Data File: >A6104::DD Dilution Factor: 1.000
Name: 5000 BNA STD.
Misc: (#41066,#41067,#41068,#41069;75UL EA.) IS=40NG(#41005;BTL# 1

ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860904 09:42

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-D4 (IS)	9.35	375	96648	40.00	ug/L	87
2)	N-NITROSO DIMETHYL AMINE	3.91	18	67459	50.00	ug/L	66
3)	PHENOL	8.28	340	206316	50.00	ug/L	74
4)	ANILINE	8.66	363	223839	50.00	ug/L	91
5)	BIS (2-CHLOROETHYL) ETHER	8.91	348	216690	50.00	ug/L	86
6)	2-CHLOROPHENOL	8.39	347	172013	50.00	ug/L	97
7)	1,3-DICHLOROBENZENE	9.23	368	192802	50.00	ug/L	91
8)	1,4-DICHLOROBENZENE	9.40	379	199121	50.00	ug/L	89
9)	BENZYL ALCOHOL	9.89	408	68914	50.00	ug/L	93
10)	1,2-DICHLOROBENZENE	9.89	408	175715	50.00	ug/L	91
11)	2-METHYLPHENOL	10.33	435	160624	50.00	ug/L	90
12)	BIS (2-CHLOROISOPROPYL) ETHER	10.36	437	199386	50.00	ug/L	100
13)	4-METHYLPHENOL	10.76	461	160963	50.00	ug/L	92
14)	N-NITROSO-DI-n-PROPYL AMINE	10.74	460	119866	50.00	ug/L	[illegible]
15)	HEXACHLOROETHANE	10.71	458	78518	50.00	ug/L	89
16)	2-FLUOROPHENOL (SS)	6.59	194	651803	200.00	ug/L	97
17)	PHENOL-D5 (SS)	8.26	339	803131	200.00	ug/L	86
18)	*NAPHTHALENE-D8 (IS)	12.94	594	341339	40.00	ug/L	100
19)	NITROBENZENE	11.02	472	190192	50.00	ug/L	81
20)	ISOPHORONE	11.72	520	426414	50.00	ug/L	96
21)	2-NITROPHENOL	11.94	533	81190	50.00	ug/L	81
22)	2,4-DIMETHYLPHENOL	12.05	532	100100	50.00	ug/L	9
23)	BENZOIC ACID	12.67	578	103636	80.00	ug/L	98
24)	BIS(2-CHLOROETHOXY)METHANE	12.53	569	211904	50.00	ug/L	9
25)	2,4-DICHLOROPHENOL	12.64	576	114887	50.00	ug/L	92
26)	1,2,4-TRICHLOROBENZENE	12.85	589	128199	50.00	ug/L	94
27)	NAPHTHALENE	12.98	597	453254	50.00	ug/L	93
28)	4-CHLOROANILINE	13.34	619	160142	50.00	ug/L	9
29)	HEXACHLOROBUTADIENE	13.64	637	88155	50.00	ug/L	82
30)	4-CHLORO-3-METHYLPHENOL	14.93	716	184414	50.00	ug/L	87
31)	2-METHYLNAPHTHALENE	15.10	726	256899	50.00	ug/L	93
32)	NITROBENZENE-D5 (SS)	10.97	474	159066	100.00	ug/L	97
33)	*ACENAPHTHENE-D10 (IS)	18.30	920	173606	40.00	ug/L	94
34)	HEXACHLOROCYCLOPENTADIENE	15.83	773	485.78	50.00	ug/L	97
35)	2,3,6-TRICHLOROPHENOL	16.09	787	49684	50.00	ug/L	95
36)	2,4,5-TRICHLOROPHENOL	16.19	793	91595	80.00	ug/L	95
37)	2-CHLORONAPHTHALENE	16.54	814	210766	50.00	ug/L	88
38)	2-NITROANILINE	17.06	846	59054	80.00	ug/L	[illegible]
39)	DIMETHYL PHTHALATE	17.86	895	182887	50.00	ug/L	99
40)	ACENAPHTHYLENE	17.91	892	151991	50.00	ug/L	[illegible]
41)	3-NITROANILINE	18.35	925	58126	80.00	ug/L	91
42)	ACENAPHTHENE	18.39	927	187857	50.00	ug/L	[illegible]
43)	2,4-DINITROPHENOL	18.67	944	17090	80.00	ug/L	76

QUANT REPORT

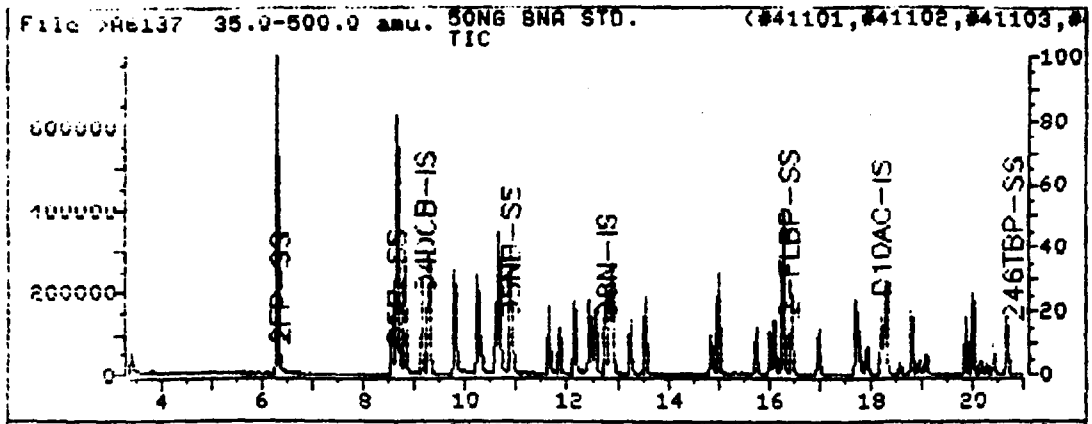
Operator ID: MIKE Quant Rev: 4 Quant Time: 860924 09:53
Output File: ^A6104::AQ Injected at: 860924 08:36
Data File: >A6104::DD Dilution Factor: 1.000
Name: 50NG BNA STD.
Misc: (#41066,#41067,#41068,#41069;75UL EA.) IS=40NG(#41005;BTL# 1

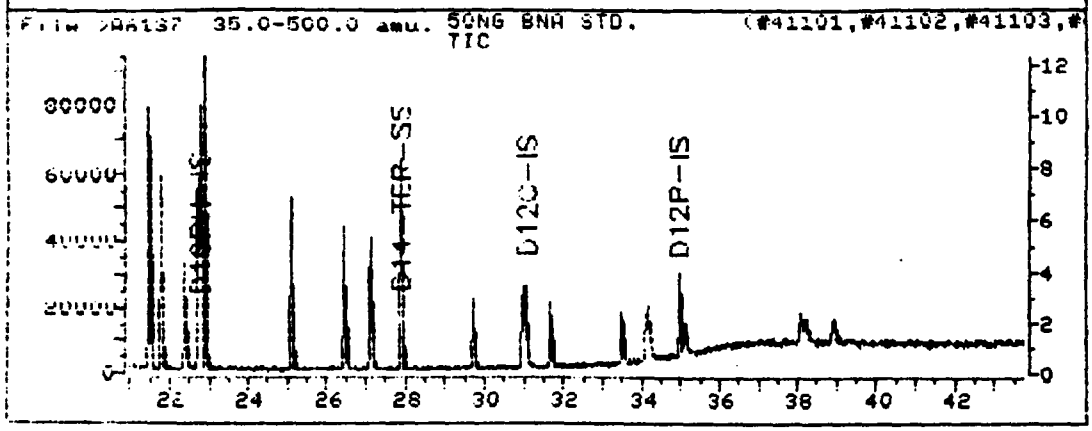
ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860924 09:42

	Compound	R.T.	Scan#	Area	Conc	Units	q
44)	4-NITROPHENOL	19.01	945	19999	80.00	ug/L	65
45)	DIBENZOFURAN	18.89	958	251169	50.00	ug/L	78
46)	2,4-DINITROTOLUENE	19.16	974	40104	50.00	ug/L	67
47)	2,6-DINITROTOLUENE	18.01	904	40211	50.00	ug/L	72
48)	DIETHYL PHTHALATE	20.07	1040	162689	50.00	ug/L	94
49)	4-CHLOROPHENYL-PHENYL ETHER	20.09	1031	80705	50.00	ug/L	66
50)	FLUORENE	19.94	1022	172048	50.00	ug/L	96
51)	4-NITROANILINE	20.24	1040	31210	80.00	ug/L	66
52)	2-FLUOROBIPHENYL (SS)	16.37	834	497083	100.00	ug/L	100
53)	2,4,6-TRIBROMOPHENOL (SS)	20.76	1072	71345	200.00	ug/L	100
54)	*PHENANTHRENE-D10 (IS)	22.79	1196	104236	40.00	ug/L	100
55)	4,6-DINITRO-2-METHYLPHENOL	20.37	1048	16341	80.00	ug/L	89
56)	N-NITROSODIPHENYLAMINE	20.50	1056	84133	50.00	ug/L	89
57)	4-BROMOPHENYL-PHENYL ETHER	21.56	1121	39650	50.00	ug/L	83
58)	HEXACHLOROBENZENE	21.89	1141	42322	50.00	ug/L	87
59)	PENTACHLOROPHENOL	22.48	1177	18578	80.00	ug/L	100
60)	PHENANTHRENE	22.87	1201	155103	50.00	ug/L	83
61)	ANTHRACENE	23.00	1209	159853	50.00	ug/L	83
62)	DI-n-BUTYL PHTHALATE	25.16	1341	115222	50.00	ug/L	100
63)	FLUORANTHENE	26.57	1427	85443	50.00	ug/L	89
64)	*CHRYSENE-D12 (IS)	31.08	1703	100146	40.00	ug/L	100
65)	BENZIDINE	27.19	1465	7099	80.00	ug/L	100
66)	PYRENE	27.22	1467	88513	50.00	ug/L	90
67)	BUTYLBENZYL PHTHALATE	29.79	1614	22020	50.00	ug/L	59
68)	3,3'-DICHLOROBENZIDINE	31.16	1708	5477	50.00	ug/L	100
69)	BENZO(a)ANTHRACENE	31.03	1700	41074	50.00	ug/L	85
70)	BIS(2-ETHYLHEXYL) PHTHALATE	31.27	1745	23552	50.00	ug/L	97
71)	CHRYSENE	31.15	1707	38195	50.00	ug/L	94
72)	TERPHENYL-D14 (SS)	27.98	1519	101214	100.00	ug/L	100
73)	*PERYLENE-D12 (IS)	35.22	1956	13608	40.00	ug/L	100
74)	DI-N-OCTYL PHTHALATE	33.59	1856	17948	50.00	ug/L	100
75)	BENZO(b)FLUORANTHENE	34.21	1894	21512	50.00	ug/L	100
76)	BENZO(k)FLUORANTHENE	34.27	1898	41700	50.00	ug/L	100
77)	BENZO(a)PYRENE	35.06	1946	47661	50.00	ug/L	85
78)	INDENO(1,2,3,cd)PYRENE	39.07	2191	21300	50.00	ug/L	87
79)	DIBENZ(a,h)ANTHRACENE	38.33	2146	16261	50.00	ug/L	69
80)	BENZO(g,h,i)PERYLENE	39.07	2191	21300	50.00	ug/L	79

* Compound is ISTD

2 2 0693
028-14





MS data file header from : >A6137

Sample: 50NG BNA STD. Operator: MIKE MS 9/26/86 11:5
Mass : (#41101,#41102,#41103,#41104;75UL EA.) IS=40NG(#41005;BTL# 1
Sys. #: 1A MS model: HP SW/HW rev.: 1A ALS # : 0
Method file: BNAME1 Tuning file: BNATU1 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 200 Transfer line temp. : 250

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	2.0	8.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860926 12:02
Output File: ^A6137::AW Injected at: 860926 10:55
Data File: >A6137::EE Dilution Factor: 1.000
Name: 50NG BNA STD.
Misc: (#41101,#41102,#41103,#41104;75UL EA.) IS=40NG(#41005;BTL# 1

ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860926 11:57

	Compound	R.T.	Scan#	Area	Conc	Units
1)	*1,4-DICHLOROBENZENE-D4 (IS)	9.28	374	72512	40.00	ug/L
2)	N-NITROSO DIMETHYL AMINE	5.43	17	41156	50.00	ug/L
3)	PHENOL	8.70	339	154583	50.00	ug/L
4)	ANILINE	8.57	331	161529	50.00	ug/L
5)	BIS (2-CHLOROETHYL) ETHER	8.83	347	155493	50.00	ug/L
6)	2-CHLOROPHENOL	8.82	346	132496	50.00	ug/L
7)	1,3-DICHLOROBENZENE	9.16	367	142763	50.00	ug/L
8)	1,4-DICHLOROBENZENE	9.31	376	151544	50.00	ug/L
9)	BENZYL ALCOHOL	9.82	407	47712	50.00	ug/L
10)	1,2-DICHLOROBENZENE	9.88	408	132939	50.00	ug/L
11)	2-METHYLPHENOL	10.26	434	124246	50.00	ug/L
12)	BIS (2-CHLOROISOPROPYL) ETHER	10.29	436	98033	50.00	ug/L
13)	4-METHYLPHENOL	10.67	459	118613	50.00	ug/L
14)	N-NITROSO-DI-n-PROPYL AMINE	10.67	459	91055	50.00	ug/L
15)	HEXACHLOROETHANE	10.62	456	59743	50.00	ug/L
16)	2-FLUOROPHENOL (SS)	6.33	193	504549	200.00	ug/L
17)	PHENOL-D5 (SS)	8.67	337	611005	200.00	ug/L
18)	*NAPHTHALENE-D8 (IS)	12.85	592	1596800	40.00	ug/L
19)	NITROBENZENE	10.95	476	138402	50.00	ug/L
20)	ISOPHORONE	11.65	519	239780	50.00	ug/L
21)	2-NITROPHENOL	11.86	532	63354	50.00	ug/L
22)	2,4-DIMETHYLPHENOL	12.16	550	92663	50.00	ug/L
23)	BENZOIC ACID	12.55	574	66964	80.00	ug/L
24)	BIS(2-CHLOROETHOXY)METHANE	12.45	568	162120	50.00	ug/L
25)	2,4-DICHLOROPHENOL	12.57	575	79355	50.00	ug/L
26)	1,2,4-TRICHLOROBENZENE	12.76	587	99058	50.00	ug/L
27)	NAPHTHALENE	12.91	596	352441	50.00	ug/L
28)	4-CHLOROANILINE	13.25	617	117242	50.00	ug/L
29)	HEXACHLOROBUTADIENE	13.55	635	56788	50.00	ug/L
30)	4-CHLORO-3-METHYLPHENOL	14.86	715	23326	50.00	ug/L
31)	2-METHYLNAPHTHALENE	15.01	724	189375	50.00	ug/L
32)	NITROBENZENE-D5 (SS)	10.90	473	270453	100.00	ug/L
33)	*ACENAPHTHENE-D10 (IS)	18.21	920	90639	40.00	ug/L
34)	HEXACHLOROCYCLOPENTADIENE	15.74	769	51555	50.00	ug/L
35)	2,4,6-TRICHLOROPHENOL	16.02	786	37940	50.00	ug/L
36)	2,4,5-TRICHLOROPHENOL	16.10	791	62006	80.00	ug/L
37)	2-CHLORONAPHTHALENE	16.46	813	154656	50.00	ug/L
38)	2-NITROANILINE	16.99	845	55273	80.00	ug/L
39)	DIMETHYL PHTHALATE	17.77	893	130721	50.00	ug/L
40)	ACENAPHTHYLENE	17.72	890	232198	50.00	ug/L
41)	3-NITROANILINE	18.28	924	39088	80.00	ug/L
42)	ACENAPHTHENE	18.31	926	155803	50.00	ug/L
43)	2,4-DINITROPHENOL	18.59	943	9899	80.00	ug/L
44)	4-NITROPHENOL	18.93	964	15436	80.00	ug/L
45)	DIBENZOFURAN	18.80	956	172388	50.00	ug/L

QUANT REPORT

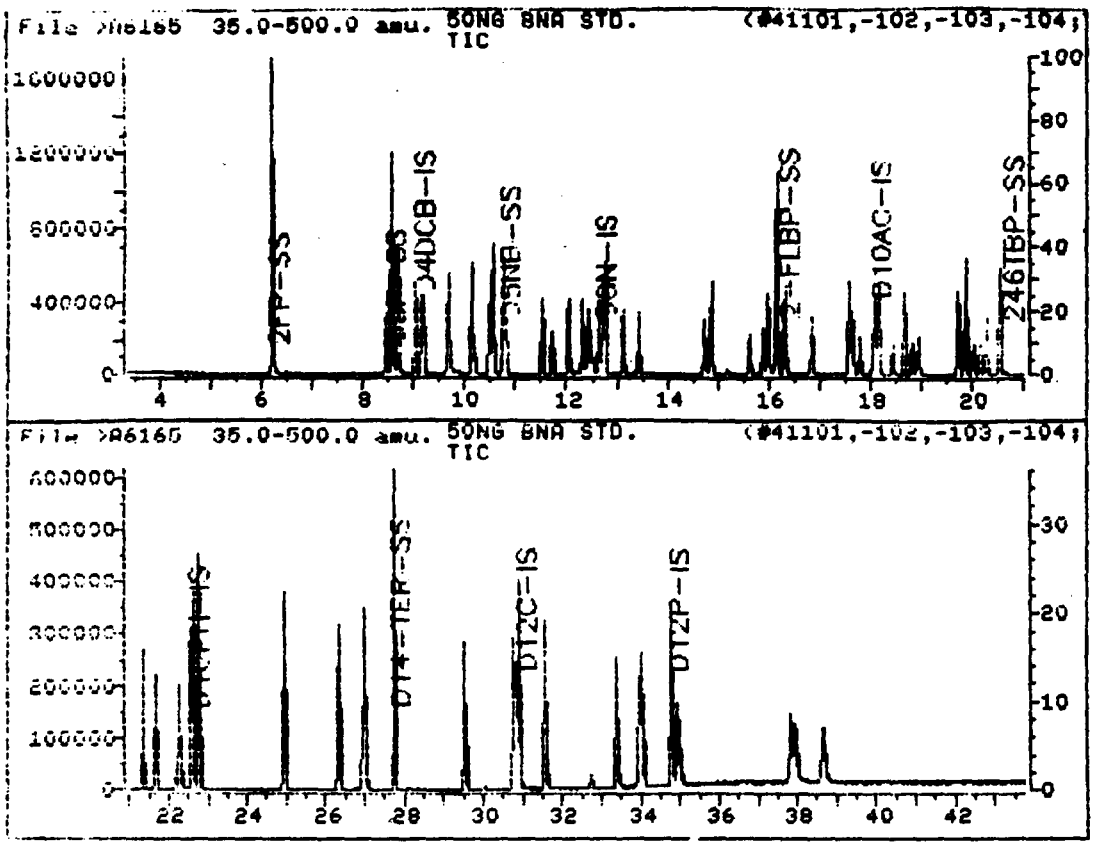
Operator ID: MIKE Quant Rev: 4 Quant Time: 860926 12:02
Output File: ^A6137::AW Injected at: 860926 10:55
Data File: >A6137::FE Dilution Factor: 1.000
Name: 50NG BNA STD.
Misc: (#41101,#41102,#41103,#41104;75UL EA.) IS=40NG(#41005;BIL# 1

ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860926 11:57

	Compound	R.T.	Scan#	Area	Conc	Units	
46)	2,4-DINITROTOLUENE	19.08	973	27088	50.00	ug/L	
47)	2,6-DINITROTOLUENE	17.94	903	28261	50.00	ug/L	
48)	DIETHYL PHTHALATE	20.00	1029	109262	50.00	ug/L	
49)	4-CHLOROPHENYL-PHENYL ETHER	20.00	1029	57955	50.00	ug/L	
50)	FLUORENE	19.87	1021	120348	50.00	ug/L	
51)	4-NITROANILINE	20.16	1039	19916	80.00	ug/L	
52)	2-FLUOROBIPHENYL (SS)	16.28	802	365144	100.00	ug/L	1
53)	2,4,6-TRIBROMOPHENOL (SS)	20.67	1070	45075	200.00	ug/L	1
54)	*PHENANTHRENE-D10 (IS)	22.70	1194	72111	40.00	ug/L	1
55)	4,6-DINITRO-2-METHYLPHENOL	20.29	1047	9766	80.00	ug/L	
56)	N-NITROSODIPHENYLAMINE	20.41	1054	60838	50.00	ug/L	
57)	4-BROMOPHENYL-PHENYL ETHER	21.47	1119	26638	50.00	ug/L	
58)	HEXACHLOROBENZENE	21.80	1139	22152	50.00	ug/L	
59)	PENTACHLOROPHENOL	22.40	1176	12079	80.00	ug/L	1
60)	PHENANTHRENE	22.78	1199	95744	50.00	ug/L	
61)	ANTHRACENE	22.91	1207	110308	50.00	ug/L	
62)	DI-n-BUTYL PHTHALATE	25.09	1348	86648	50.00	ug/L	1
63)	FLUORANTHENE	26.48	1425	57496	50.00	ug/L	
64)	*CHRYSENE-D12 (IS)	30.98	1700	8666	40.00	ug/L	
65)	BENZIDINE	27.11	1464	5088	80.00	ug/L	
66)	PYRENE	27.13	1465	54109	50.00	ug/L	
67)	BUTYLBENZYL PHTHALATE	29.70	1622	16861	50.00	ug/L	
68)	3,3'-DICHLOROBENZIDINE	31.06	1705	5355	50.00	ug/L	
69)	BENZO(a)ANTHRACENE	30.93	1697	29919	50.00	ug/L	
70)	BIS(2-ETHYLHEXYL) PHTHALATE	31.68	1743	18482	50.00	ug/L	
71)	CHRYSENE	31.04	1704	28707	50.00	ug/L	
72)	TERPHENYL-D14 (SS)	27.88	1511	67693	100.00	ug/L	
73)	*PERYLENE-D12 (IS)	35.11	1953	11667	40.00	ug/L	
74)	DI-N-OCTYL PHTHALATE	33.49	1854	26943	50.00	ug/L	
75)	BENZO(b)FLUORANTHENE	34.12	1892	21758	50.00	ug/L	
76)	BENZO(k)FLUORANTHENE	34.17	1895	21879	50.00	ug/L	
77)	BENZO(a)PYRENE	34.97	1944	40219	50.00	ug/L	
78)	INDENO(1,2,3,cd)PYRENE	38.92	2185	17622	50.00	ug/L	
79)	DIBENZ(a,h)ANTHRACENE	38.19	2141	14723	50.00	ug/L	
80)	BENZO(g,h,i)PERYLENE	38.92	2185	17622	50.00	ug/L	

* Compound is ISTD

028-15



MS data file header from : >A6165

Sample: 50NG BNA STD. Operator: MIKE MS 9/29/86 11:2
Misc : (#41101,-102,-103,-104;75UL EA.) IS=40NG(#41005;3UL)
Sys. #: 1 A MS model: 87 SW/HW rev.: 1A ALS # : 0
Method file: BNAME1 Tuning file: BNA1U1 No. of extra records: 1
Source temp.: 275 Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	2.0	8.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860929 17:47
Output File: ^A6165::AW Injected at: 860929 11:28
Data File: >A6165::DD Dilution Factor: 1.00
Name: 50NG BNA STD.
Misc: (#41101,-102,-103,-104;/50UL EA.) IS=40NG(#41005;50UL

ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA 625
Last Calibration: 860929 16:31

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-D4 (IS)	9.16	555	149755	40.00	ug/L	84
2)	N-NITROSO DIMETHYL AMINE	5.76	9	61912	50.00	ug/L	[illegible]
3)	PHENOL	8.61	550	546119	50.00	ug/L	80
4)	ANILINE	9.42	571	780132	50.00	ug/L	[illegible]
5)	BIS (2-CHLOROETHYL) ETHER	8.71	556	515756	50.00	ug/L	90
6)	2-CHLOROPHENOL	8.70	546	276016	50.00	ug	
7)	1,3-DICHLOROBENZENE	9.04	556	278438	50.00	ug/L	92
8)	1,4-DICHLOROBENZENE	9.10	546	258166	50.00	ug/L	[illegible]
9)	BENZYL ALCOHOL	9.70	596	142286	50.00	ug/L	95
10)	1,2-DICHLOROBENZENE	9.78	546	256186	50.00	ug/L	[illegible]
11)	2-METHYLPHENOL	10.19	474	249050	50.00	ug/L	91
12)	BIS (2-CHLOROISOPROPYL) ETHER	10.12	476	190874	50.00	ug/L	100
13)	4-METHYLPHENOL	10.56	449	254776	50.00	ug/L	95
14)	N-NITROSO DI-n-PROPYLAMINE	10.76	549	155451	50.00	ug/L	[illegible]
15)	HEXACHLOROETHANE	10.50	445	114209	50.00	ug/L	86
16)	2-FLUOROPHENOL (SS)	6.75	394	[illegible]	200.00	ug/L	[illegible]
17)	PHENOL-D5 (SS)	8.59	529	1431598	200.00	ug/L	96
18)	*NAPHTHALENE-D8 (IS)	12.73	591	1543143	40.00	ug/L	100
19)	NITROBENZENE	10.85	465	254623	50.00	ug/L	90
20)	ISOPHORONE	11.13	478	494455	50.00	ug/L	[illegible]
21)	2-NITROPHENOL	11.23	528	155715	50.00	ug/L	89
22)	2,4-DIMETHYLPHENOL	11.75	540	194551	50.00	ug/L	[illegible]
23)	BENZOIC ACID	12.55	570	202923	800.00	ug/L	92
24)	BIS(2-CHLOROETHOXY)METHANE	12.43	564	476458	50.00	ug/L	[illegible]
25)	2,4-DICHLOROPHENOL	12.45	564	172215	50.00	ug/L	[illegible]
26)	1,2,4-TRICHLOROBENZENE	12.34	556	143143	50.00	ug/L	[illegible]
27)	NAPHTHALENE	12.78	574	478888	50.00	ug/L	94
28)	4-CHLOROANILINE	13.14	596	171540	50.00	ug/L	[illegible]
29)	HEXACHLOROBUTADIENE	13.43	574	95152	50.00	ug/L	80
30)	4-CHLORO-3-METHYLPHENOL	14.34	604	155551	50.00	ug/L	[illegible]
31)	2-METHYLNAPHTHALENE	14.87	612	344945	50.00	ug/L	98
32)	NITROBENZENE-D5 (SS)	10.79	462	535109	200.00	ug/L	[illegible]
33)	*ACENAPHTHENE-D10 (IS)	13.08	599	2482611	40.00	ug/L	97
34)	HEXACHLOROCYCLOPENTADIENE	15.21	598	8[illegible]	50.00	ug/L	[illegible]
35)	2,4,6-TRICHLOROPHENOL	15.99	674	102105	50.00	ug/L	99
36)	2,4,5-TRICHLOROPHENOL	15.98	670	191113	50.00	ug/L	[illegible]
37)	2-CHLORONAPHTHALENE	13.33	581	457514	50.00	ug/L	92
38)	2-NITROANILINE	15.75	655	154148	50.00	ug/L	[illegible]
39)	DIMETHYL PHTHALATE	17.65	850	522027	50.00	ug/L	64
40)	ACENAPHTHYLENE	17.59	798	540151	50.00	ug/L	[illegible]
41)	3-NITROANILINE	17.15	711	105225	50.00	ug/L	64
42)	ACENAPHTHENE	17.[illegible]	714	494141	50.00	ug/L	[illegible]
43)	2,4-DINITROPHENOL	17.44	741	62957	50.00	ug/L	91
44)	4-NITROPHENOL	[illegible]	754	98556	50.00	ug/L	[illegible]
45)	DIBENZOFURAN	17.67	944	478548	50.00	ug/L	89
46)	2,4-DINITROTOLUENE	17.96	761	117111	50.00	ug/L	[illegible]

2 2 0698
029-26

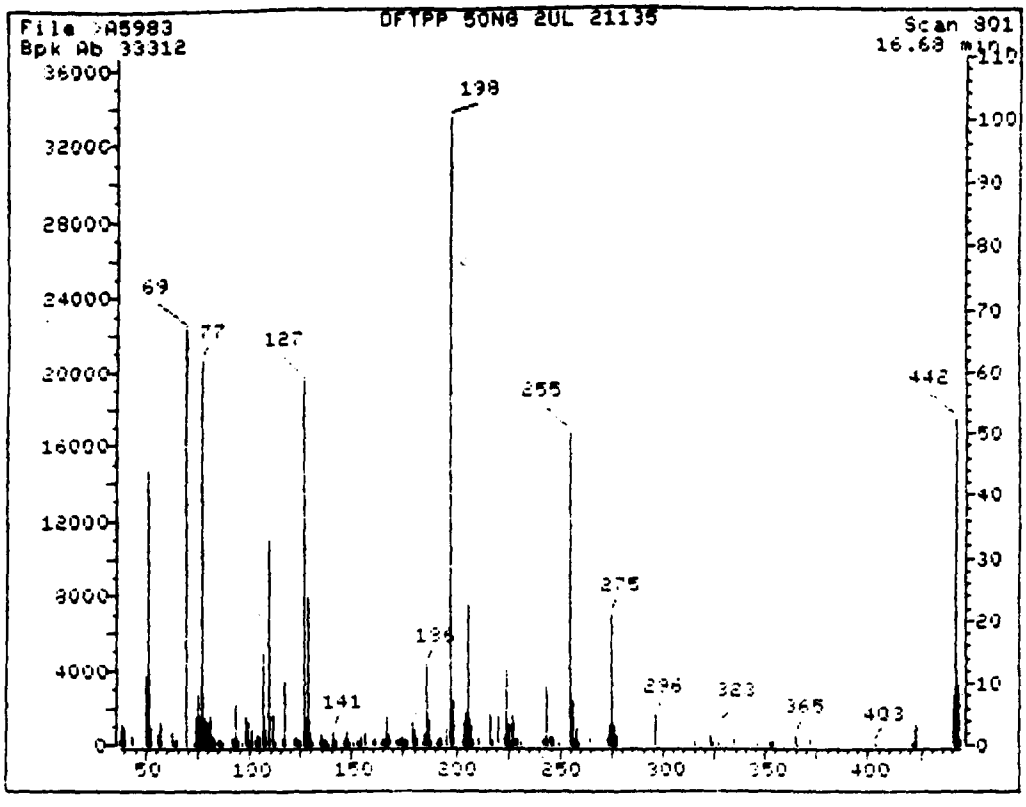
QUANT REPORT

rator ID: MIKE Quant Rev: 4 Quant Time: 860929 12:47
tput File: ^A6165::AW Injected at: 860929 11:28
ata File: >A6165::DD Dilution Factor: 1.00
Name: 50NG BNA STD.
Misc: (#41101,-102,-103,-104;75UL EA.) IS=40NG(#41005;5UL)

ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES (EPA LIS)
Last Calibration: 860929 16:31

	Compound	R.T.	Scan#	Area	Conc	Units	q
47)	2,6-DINITROTOLUENE	17.79	890	74466	50.00	ug/L	91
48)	DIETHYL PHTHALATE	19.78	[illegible]	[illegible]	50.00	ug/L	[illegible]
49)	4-CHLOROPHENYL-PHENYL ETHER	19.87	1017	168435	50.00	ug/L	[illegible]
50)	FLUORENE	19.72	[illegible]	[illegible]	50.00	ug/L	[illegible]
51)	4-NITROANILINE	20.01	1026	103506	80.00	ug/L	[illegible]
52)	2-FLUOROBIPHENYL (SS)	16.16	[illegible]	[illegible]	100.00	ug/L	[illegible]
53)	2,4,6-TRIBROMOPHENOL (SS)	20.54	1058	190701	200.00	ug/L	[illegible]
54)	*PHENANTHRENE-D10 (IS)	22.55	[illegible]	[illegible]	40.00	ug/L	[illegible]
55)	4,6-DINITRO-2-METHYLPHENOL	20.14	1034	67187	80.00	ug/L	96
56)	N-NITROSODIPHENYLAMINE	20.28	[illegible]	[illegible]	50.00	ug/L	[illegible]
57)	4-BROMOPHENYL-PHENYL ETHER	21.32	1106	92259	50.00	ug/L	91
58)	HEXACHLOROBENZENE	21.65	[illegible]	81992	50.00	ug/L	[illegible]
59)	PENTACHLOROPHENOL	22.26	1163	72350	80.00	ug/L	100
[illegible]	PHENANTHRENE	22.53	[illegible]	[illegible]	50.00	ug/L	[illegible]
[illegible]	ANTHRACENE	22.77	1194	[illegible]	50.00	ug/L	[illegible]
[illegible]	DI-n-BUTYL PHTHALATE	24.94	[illegible]	[illegible]	50.00	ug/L	[illegible]
63)	FLUORANTHENE	26.31	1411	[illegible]	50.00	ug/L	92
64)	*CHRYSENE-D12 (IS)	30.91	[illegible]	[illegible]	40.00	ug/L	[illegible]
65)	BENZIDINE	26.90	1442	99239	80.00	ug/L	100
66)	PYRENE	26.97	[illegible]	[illegible]	50.00	ug/L	[illegible]
67)	BUTYLBENZYL PHTHALATE	29.54	1608	185231	50.00	ug/L	66
68)	3,3'-DICHLOROBENZIDINE	30.78	[illegible]	[illegible]	50.00	ug/L	[illegible]
69)	BENZO(a)ANTHRACENE	30.76	[illegible]	[illegible]	50.00	ug/L	[illegible]
70)	BIS(2-ETHYLHEXYL) PHTHALATE	31.54	[illegible]	[illegible]	50.00	ug/L	[illegible]
71)	CHRYSENE	30.88	1690	299555	50.00	ug/L	[illegible]
72)	TERPHENYL D14 (SS)	27.72	[illegible]	[illegible]	100.00	ug/L	[illegible]
73)	*PERYLENE-D12 (IS)	34.94	1938	[illegible]	40.00	ug/L	[illegible]
74)	DI-N-OCTYL PHTHALATE	33.35	[illegible]	[illegible]	50.00	ug/L	[illegible]
75)	BENZO(b)FLUORANTHENE	33.94	1877	296111	50.00	ug/L	100
76)	BENZO(k)FLUORANTHENE	34.01	[illegible]	[illegible]	50.00	ug/L	[illegible]
77)	BENZO(a)PYRENE	34.79	[illegible]	[illegible]	50.00	ug/L	[illegible]
78)	INDENO(1,2,3,cd)PYRENE	[illegible]	[illegible]	[illegible]	50.00	ug/L	[illegible]
79)	DIBENZ(a,h)ANTHRACENE	37.94	2121	188534	50.00	ug/L	[illegible]
80)	BENZO(g,h,i)PERYLENE	[illegible]	[illegible]	[illegible]	50.00	ug/L	[illegible]

* Compound is IS-D



MS data file header from : A5983

Sample: DFTPP 50NG 2UL 21135 Operator: MIKE 9/05/86 8:11
Misc :
Sys. #: 1A MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: DFTPP1 Tuning file: BNATU1 No. of extra records: 1
Source temp.: 225 Analyzer temp.: 250 Transfer line temp. : 250

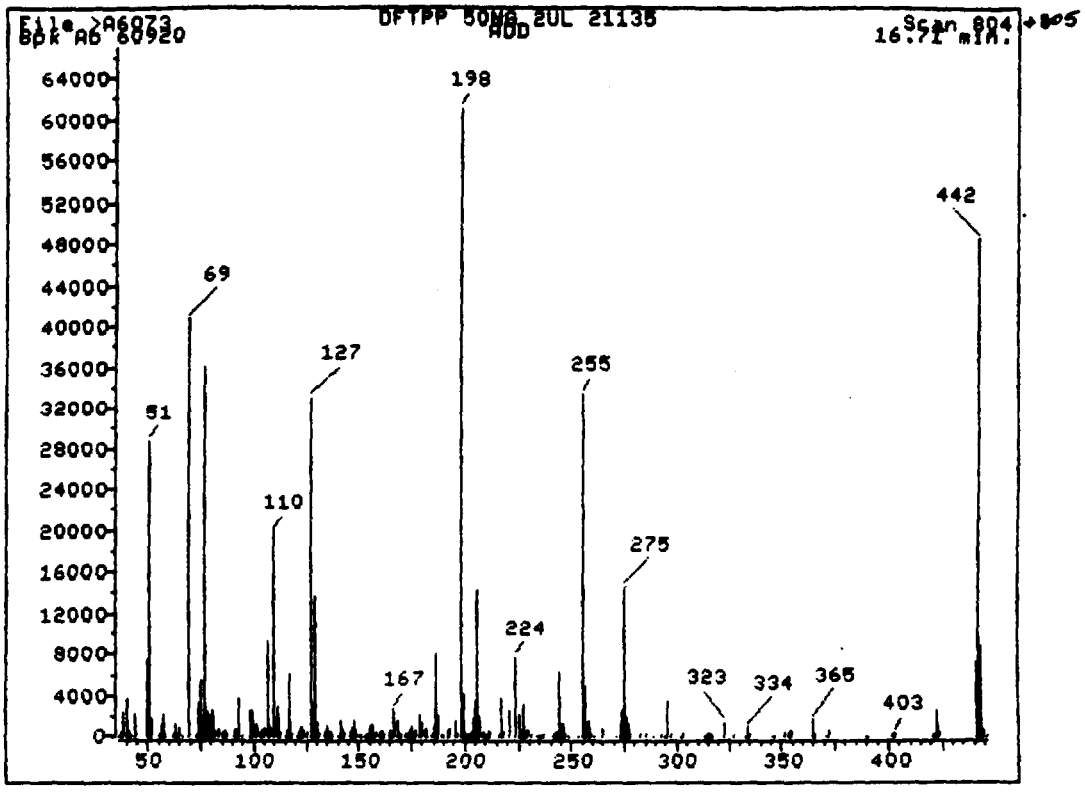
Chromatographic temperatures :	40.	290.	0.	0.	0.
Chromatographic times, min. :	4.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	15.0	0.0	0.0	0.0	0.0

>A5983 DFTPP 50NG 2UL 21135
801 NRM

File: >A5983 Scan #: 801 Retn. time: 16.68

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.90	.77	97.90	4.51	146.95	1.19	192.95	1.15	257.95	2.63
38.90	3.32	98.90	3.51	147.95	2.25	195.95	2.64	258.80	.45
39.90	2.42	100.00	.42	148.80	.55	197.95	100.00	264.95	1.19
43.90	1.33	100.90	2.22	150.95	.51	198.95	6.99	272.80	1.35
49.90	11.25	102.95	.75	152.95	.76	199.95	.48	273.95	3.24
50.90	43.89	103.95	1.69	153.95	.56	202.95	.74	274.95	21.26
51.90	2.49	104.95	1.23	154.95	1.68	203.95	3.85	275.95	2.83
55.90	1.61	106.95	14.69	155.95	1.90	204.95	5.32	276.95	1.59
56.90	3.65	107.95	2.42	156.80	.39	205.95	22.66	295.95	4.84
62.90	2.12	109.95	32.92	159.95	.74	206.95	3.04	315.00	.64
63.90	.32	110.95	4.79	160.95	1.39	207.95	.88	323.00	1.74
64.90	1.06	111.95	.50	163.95	.26	210.80	.95	323.90	.29
68.90	66.88	115.95	1.06	164.95	1.01	216.95	5.33	326.90	.30
72.90	.36	116.95	10.29	165.95	.77	217.80	.63	334.00	1.04
73.90	4.72	121.95	.95	166.95	4.70	220.95	4.66	334.90	.33
74.90	9.14	122.95	1.38	167.95	1.79	222.95	1.21	341.00	.25
76.00	3.19	123.95	.80	171.95	.64	223.95	12.40	345.90	.24
76.90	61.94	124.95	.76	172.95	.74	224.95	3.19	351.90	.50
77.90	4.25	126.95	58.21	173.95	1.03	225.95	.35	353.00	.32
78.90	3.48	127.95	4.34	174.95	1.41	226.95	4.88	354.00	.36
79.90	3.14	128.95	23.86	175.95	.62	227.90	.88	364.90	1.74
80.90	4.54	129.95	2.13	176.95	.79	228.95	.91	365.75	.24
81.90	1.45	130.95	.54	178.95	3.58	230.90	.49	371.90	.96
82.90	1.02	134.05	.66	179.95	2.29	241.95	.65	401.90	.43
84.90	.87	134.95	1.78	180.95	1.07	242.95	.95	402.90	.44
95.90	1.16	135.95	.88	184.05	.35	243.95	9.22	420.90	.40
96.90	.41	137.05	.83	194.95	1.63	244.95	1.41	421.90	.39
90.90	1.17	138.30	.17	185.95	13.04	245.95	1.47	422.90	3.15
91.90	.93	139.95	.23	186.95	3.90	248.95	.38	440.90	9.04
92.90	6.48	140.95	2.47	187.95	.23	254.95	50.02	441.90	52.15
93.90	.58	141.95	.69	190.95	.51	255.95	6.97	442.90	9.54
96.00	.36	145.95	.35	191.95	.99	256.95	.57	443.90	1.01

035-02



MS data file header from : >A6073

Sample: DFTPP 50NG 2UL 21135 Operator: MIKE MS 9/22/86 7:50
Misc :
Sys. #: 1A MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: DFTPP1 Tuning file: BNATU1 No. of extra records: 1
Source temp.: 225 Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	40.	280.	0.	0.	0.
Chromatographic times, min. :	4.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	15.0	0.0	0.0	0.0	0.0

2 2 0702
036-02

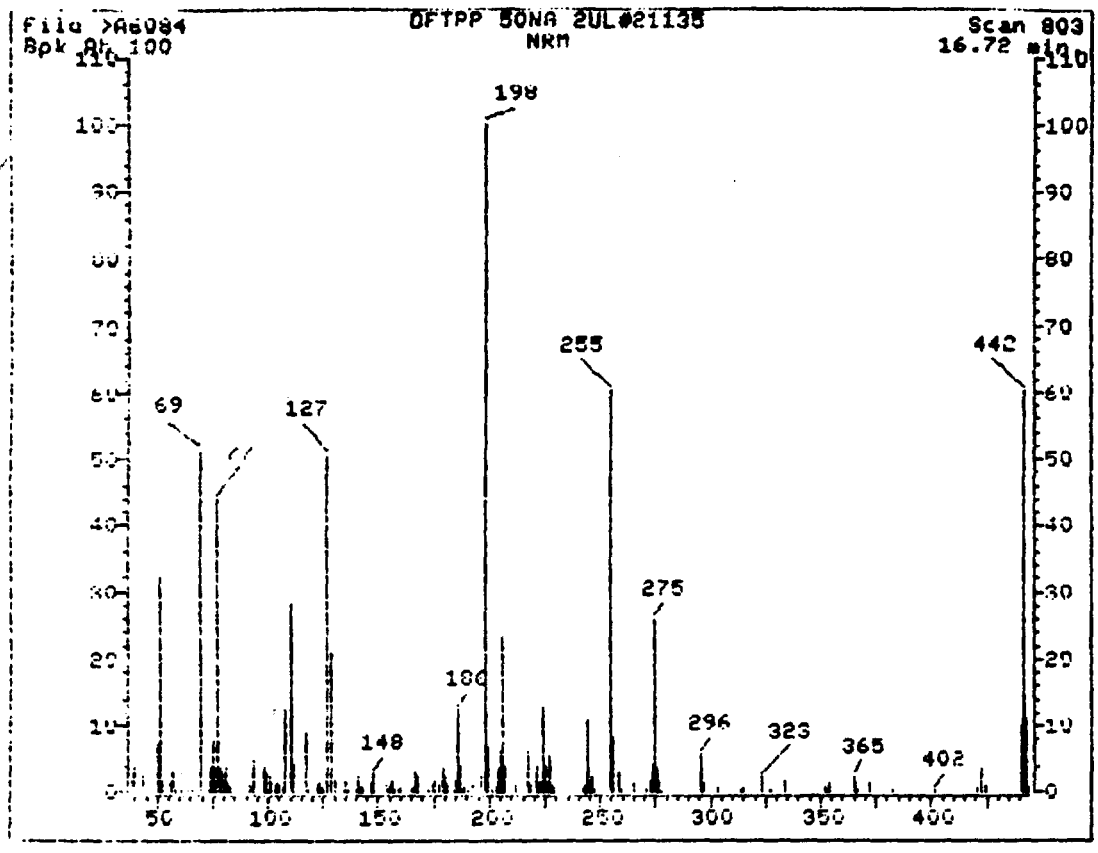
>A6073 DFTPP 50NG 2UL 21135
804+805 ADD NRM

File: >A6073 Scan #: 804 Retn. time: 16.71

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.90	.12	104.00	1.09	160.00	.68	210.25	.35	282.80	.33
37.90	.77	105.00	1.23	161.00	1.16	211.00	1.01	284.95	.39
39.00	4.06	107.00	15.21	162.00	.27	216.00	.55	288.80	.13
40.00	6.02	108.00	1.45	165.00	1.03	217.00	6.04	292.95	.43
41.00	.74	110.00	32.74	166.00	.75	218.00	.80	294.95	.14
42.00	.23	111.00	4.81	167.00	4.47	221.00	4.27	295.95	5.98
44.00	3.66	112.00	.77	168.00	2.59	223.15	1.40	296.95	.35
50.00	12.14	115.00	.17	169.00	.29	224.00	12.59	301.95	.16
51.00	47.26	116.00	1.00	169.90	.08	225.00	3.60	302.95	.75
52.00	2.89	117.00	10.11	172.00	.32	226.00	.39	313.05	.10
55.25	.53	118.00	.33	173.15	.52	227.00	5.09	313.95	.29
56.00	1.71	121.00	.14	174.15	1.18	228.00	.83	314.95	.60
57.00	3.65	122.15	1.18	175.00	1.61	229.00	1.14	315.95	.30
58.15	.12	122.90	1.54	176.00	.73	231.00	.48	317.05	.14
62.00	.30	124.00	.95	177.00	1.02	234.00	.11	322.95	2.36
63.00	2.06	125.00	.83	179.00	3.58	235.00	.23	326.95	.29
64.00	.18	127.00	54.30	180.00	2.35	235.90	.12	332.95	.17
64.90	1.31	128.00	4.68	181.15	1.48	237.00	.32	333.95	1.61
66.25	.10	129.00	22.52	182.00	.19	241.00	.26	334.95	.35
69.00	66.96	130.00	2.17	184.15	.35	242.00	.78	345.80	.09
73.15	.54	131.00	.30	185.00	1.62	243.15	.81	346.80	.17
74.00	5.62	134.00	.60	186.00	13.09	244.00	10.40	351.95	.66
75.00	8.94	135.00	1.79	187.00	3.72	245.15	1.22	352.95	.56
76.15	3.14	136.15	.59	189.00	.46	246.00	1.94	353.95	1.13
77.00	59.33	137.00	.87	190.00	.18	247.00	.31	364.95	2.84
78.00	4.39	137.90	.12	192.00	1.01	249.00	.16	365.95	.34
79.00	3.76	140.00	.17	193.15	1.26	253.00	.23	370.80	.18
80.00	3.08	141.00	2.74	196.00	2.65	255.00	54.78	371.95	.96
81.00	4.20	142.00	1.11	196.90	.54	256.00	8.15	389.95	.19
81.90	.79	143.00	.25	198.00	100.00	256.95	.43	390.95	.15
83.00	1.19	146.00	.60	199.00	6.69	257.95	2.55	401.80	.46
85.00	.70	147.00	1.41	200.00	.26	258.95	.25	402.95	.61
86.00	1.04	148.00	2.61	201.40	.47	260.95	.13	420.95	.54
87.00	.28	149.00	.38	201.90	.33	264.95	1.26	421.80	.40
91.00	.91	151.15	.33	203.00	.84	270.95	.16	422.95	4.39
92.00	.92	151.65	.16	204.00	3.04	272.95	1.94	423.95	.84
93.00	6.32	153.15	.50	205.00	5.82	273.95	4.39	440.95	11.94
95.00	.12	154.00	.34	206.00	23.31	274.95	23.81	441.95	79.37
98.00	4.14	155.00	1.71	207.15	3.38	275.95	3.21	442.95	14.56
99.00	4.15	156.15	1.91	208.15	.60	276.95	1.97	443.95	1.04
101.00	2.08	156.90	.47	209.15	.20	277.95	.30	446.05	.22
102.90	.66	158.00	.53						

2 2 0703

035-03



MS data file header from : >A6084

Sample: DFTPP 50NG 2UL #21135 Operator: MIKE MS 9/22/86 20:28
Misc :
Sys. #: 1 A MS model: 8 SW/HW rev.: CA ALS # : 0
Method file: DFTPP1 Tuning file: HNATU1 No. of extra records: 1
Source temp.: 225 Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	40.	200.	0.	0.	0.
Chromatographic times, min. :	4.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	15.0	0.0	0.0	0.0	0.0

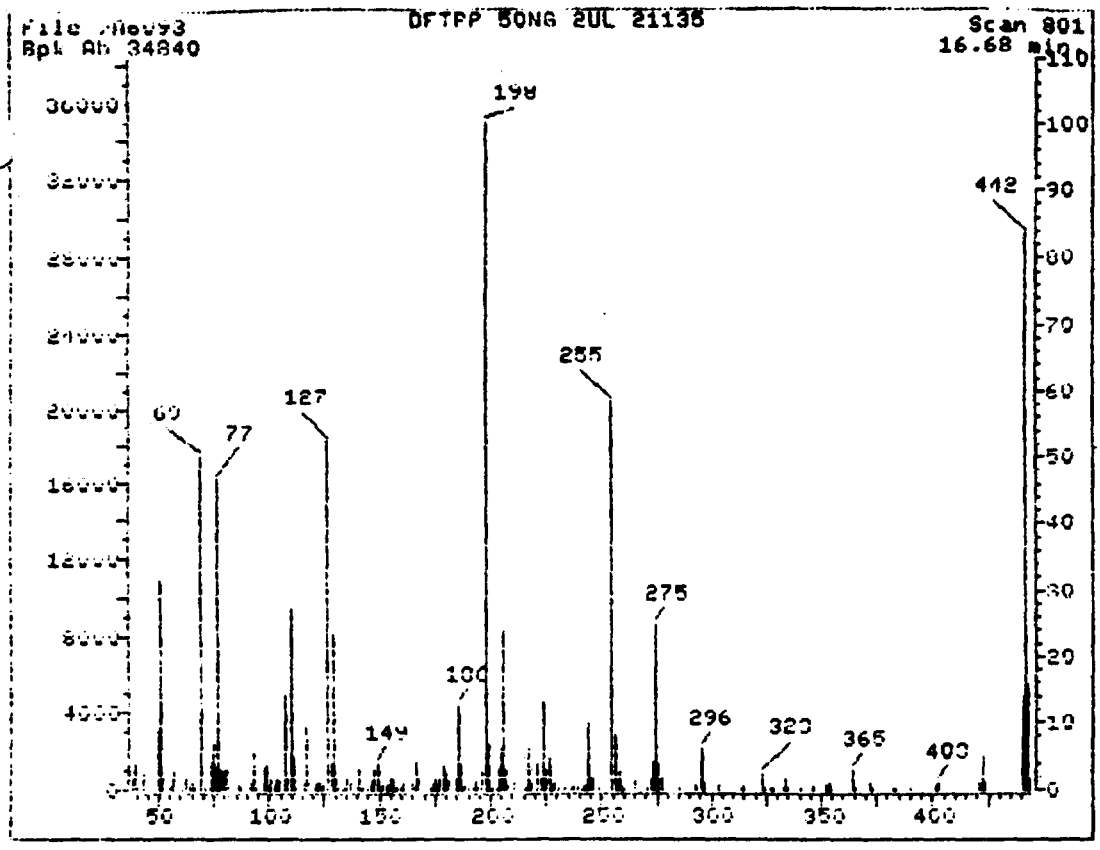
036-03

>A6084 DFTPP 50NG 2UL#21135
803 NRM

File: >A6084 Scan #: 803 Retn. time: 16.72

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
39.00	2.15	101.00	2.36	155.00	1.18	203.00	.68	272.95	1.87
40.00	4.69	103.00	.69	156.00	2.00	204.00	3.53	274.05	4.33
44.00	2.37	104.00	1.47	157.00	.44	205.15	6.12	274.95	26.13
50.00	7.57	105.00	1.06	159.15	.34	206.00	23.57	275.95	3.46
51.00	32.18	106.15	.62	160.00	.66	207.15	3.79	276.95	2.04
52.00	1.59	107.15	12.72	165.00	.77	211.15	1.09	277.95	.23
56.00	1.51	108.00	2.10	166.00	.69	212.00	6.10	295.95	5.72
57.00	2.88	110.00	28.30	167.15	3.05	218.00	1.03	296.95	1.21
57.75	.37	111.15	4.28	168.00	2.71	221.00	3.93	303.05	.83
61.00	.85	112.00	8.91	172.00	.46	221.90	1.24	314.05	.55
63.90	.32	118.15	.55	174.15	.36	223.00	1.27	314.95	.63
65.15	.86	122.15	.80	175.00	1.87	224.00	12.75	322.95	2.24
69.00	51.09	123.00	1.51	177.00	.39	225.15	3.78	326.95	.32
73.00	.51	124.00	.72	179.00	3.64	226.00	.51	333.95	1.73
74.00	3.97	125.00	.62	180.15	2.27	227.15	5.68	352.05	.65
75.00	7.75	127.00	50.40	181.00	1.01	228.00	1.03	352.95	.54
76.00	2.03	128.15	5.88	184.00	.61	229.00	.31	354.05	1.46
77.15	43.88	129.00	21.00	185.15	1.78	235.15	.56	364.95	2.41
78.15	3.65	130.15	1.76	186.00	12.52	242.00	.73	365.95	.56
79.00	3.36	134.00	.50	187.00	3.77	243.15	1.02	371.95	1.26
80.00	2.35	135.00	7.15	187.90	.52	244.15	11.06	382.95	.38
83.00	4.57	136.15	.52	189.00	.79	245.00	1.71	401.80	.40
87.00	1.01	140.15	.44	191.00	.49	246.00	2.36	420.95	.75
88.00	.69	141.15	2.45	192.15	1.06	247.00	.52	422.95	3.61
87.00	.47	142.00	.67	196.00	2.76	255.00	60.23	424.05	1.05
91.15	1.01	143.00	.66	196.75	.44	256.00	8.48	424.95	.28
92.15	.85	147.00	1.36	198.00	100.00	257.95	2.92	440.95	9.93
94.00	4.92	148.00	2.85	199.00	6.65	259.05	.50	441.95	60.26
98.00	3.98	153.00	.90	201.25	.40	265.05	1.41	443.05	10.88
99.00	3.12	154.00	.50	201.50	.45	271.05	.39	443.95	.86
100.00	.37								

2 2 0705
035-04



MS data file header from : >A6NN93

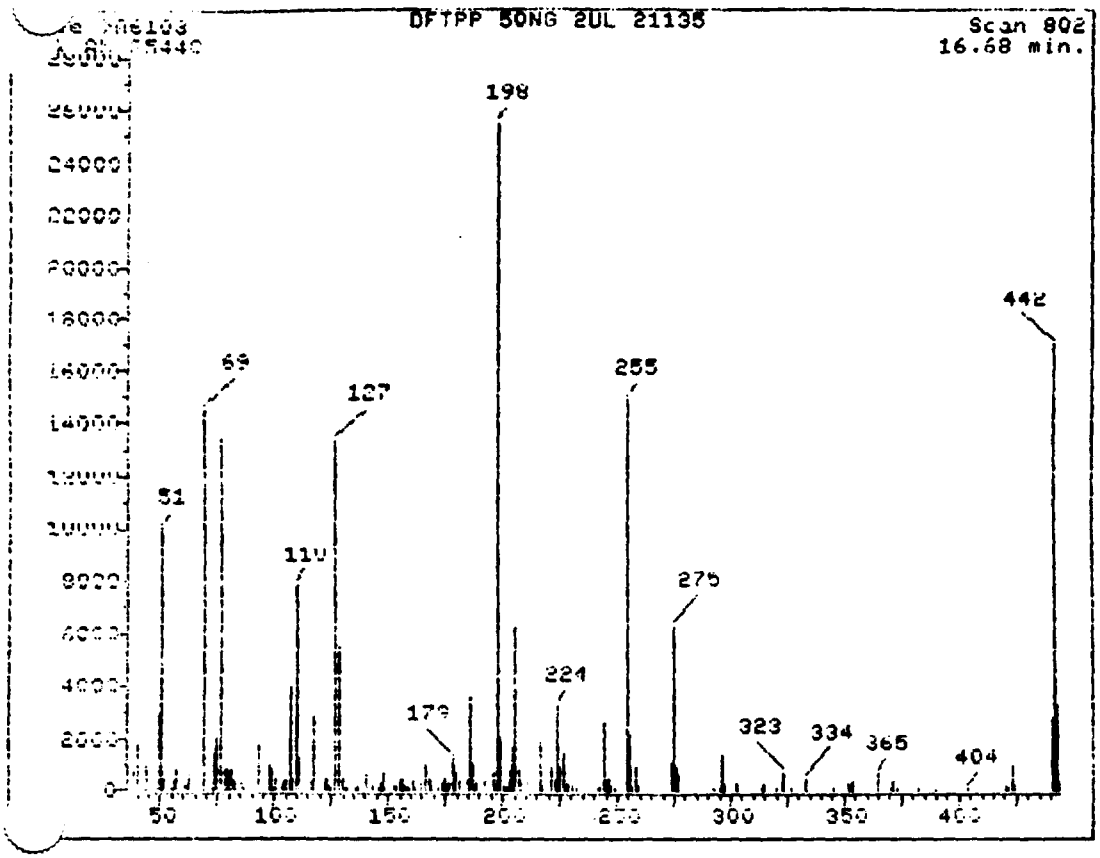
Sample: DFTPP 50NG 2UL 21135 Operator: MIKE MS 9/23/86 8:5[illegible]
Misc :
Sys. #: 1A MS mode: 87 SW/HW rev.: CA ALS # : 0
Method File: DFTPP1 Tuning File: HNA1111 No. of extra records: 1
Source temp.: 225 Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	40.	280.	0.	0.	0.
Chromatographic times, min. :	4.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	15.0	0.0	0.0	0.0	0.0

>A6093 DF(PP 50NG 2UL 21135
801 NRM

File: >A6093 Scan #: 801 Retn. time: 16.68

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
38.25	2.14	102.25	.72	155.90	1.60	210.25	1.04	284.90	.39
39.90	3.98	103.90	1.55	157.15	.38	215.00	.38	292.90	.59
40.90	.32	104.90	1.42	157.90	.33	216.00	.64	295.90	6.31
45.25	2.36	106.90	14.08	159.90	.67	216.90	6.15	296.90	1.16
49.90	8.85	107.90	2.05	161.00	1.06	217.90	1.02	302.90	.85
50.90	31.21	109.90	26.94	164.90	1.13	220.90	3.93	313.90	.43
51.90	1.84	110.90	4.08	165.90	.73	222.90	1.46	314.25	.41
54.90	.76	112.00	.43	166.90	4.35	223.90	13.34	314.90	.75
55.25	.84	115.90	1.01	167.90	1.91	224.90	3.11	322.90	2.36
56.90	2.69	116.90	9.76	171.75	.19	226.90	4.97	324.00	.47
60.25	.53	117.90	1.02	172.90	.56	227.90	.63	326.90	.49
62.90	1.56	121.00	.39	173.90	1.10	228.90	1.09	327.75	.28
63.90	.67	121.90	1.13	175.00	1.66	230.90	.49	333.00	.25
64.90	.91	122.90	1.18	176.00	.72	233.25	.38	334.00	1.67
66.25	.25	123.90	.59	177.00	1.61	235.90	.33	335.00	.52
68.90	49.76	124.90	.63	178.90	3.55	236.90	.36	340.90	.34
70.90	.54	126.90	52.12	179.90	2.56	238.75	.27	345.90	.57
73.00	.48	127.90	4.13	181.00	1.31	240.75	.21	351.90	.68
73.90	4.21	128.90	23.38	185.00	1.95	241.90	.64	352.90	.80
74.90	7.08	129.90	2.15	185.90	12.60	242.90	.72	353.90	1.10
76.00	2.98	130.90	.45	186.90	3.96	243.90	9.98	364.75	3.01
76.90	46.43	133.15	.12	187.75	.37	244.90	1.84	365.75	.32
78.00	3.12	133.90	.51	188.90	.76	245.90	1.27	371.90	1.19
78.90	2.22	134.90	2.12	190.90	.36	249.00	.55	372.75	.35
79.90	2.51	136.90	1.10	191.90	.82	254.90	58.60	382.75	.34
80.90	3.20	140.00	.39	193.00	1.29	255.90	8.27	383.00	.36
81.90	.27	140.90	2.92	193.90	.41	257.00	.62	389.90	.34
83.90	.62	141.90	.69	195.90	2.56	257.90	2.61	401.90	.70
85.90	1.11	143.00	.53	197.90	100.00	258.90	.51	402.90	1.17
87.00	.66	144.75	.34	198.90	6.67	259.90	.17	420.95	.93
90.90	.84	146.90	1.31	199.90	.59	264.90	1.24	421.95	.87
91.90	.91	147.90	2.81	201.40	.34	270.90	.31	422.95	5.01
92.90	5.69	148.90	4.00	202.90	.73	272.90	2.00	423.95	1.16
94.00	.51	150.00	.38	203.90	3.39	273.90	4.39	440.95	13.79
97.90	3.36	151.00	.52	205.00	6.13	274.90	24.83	441.95	83.61
99.90	3.49	152.90	.75	205.90	23.71	275.90	3.31	442.95	15.81
100.00	.38	153.90	.25	206.90	3.03	276.90	2.09	443.95	1.54
100.90	1.83	154.90	1.28	207.75	.69	277.75	.35		



Mass data file header from : >A6103

Sample: DFTPP 50NG 2UL 21135 Operator: MIKE MS 9/24/86 7:59
Misc :
Spec. #: 1A MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: DFTPP Tuning file: HNA1111 No. of extra records: 1
Source temp.: 225 Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	40.	200.	0.	0.	0.
Chromatographic times, min. :	4.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	15.0	0.0	0.0	0.0	0.0

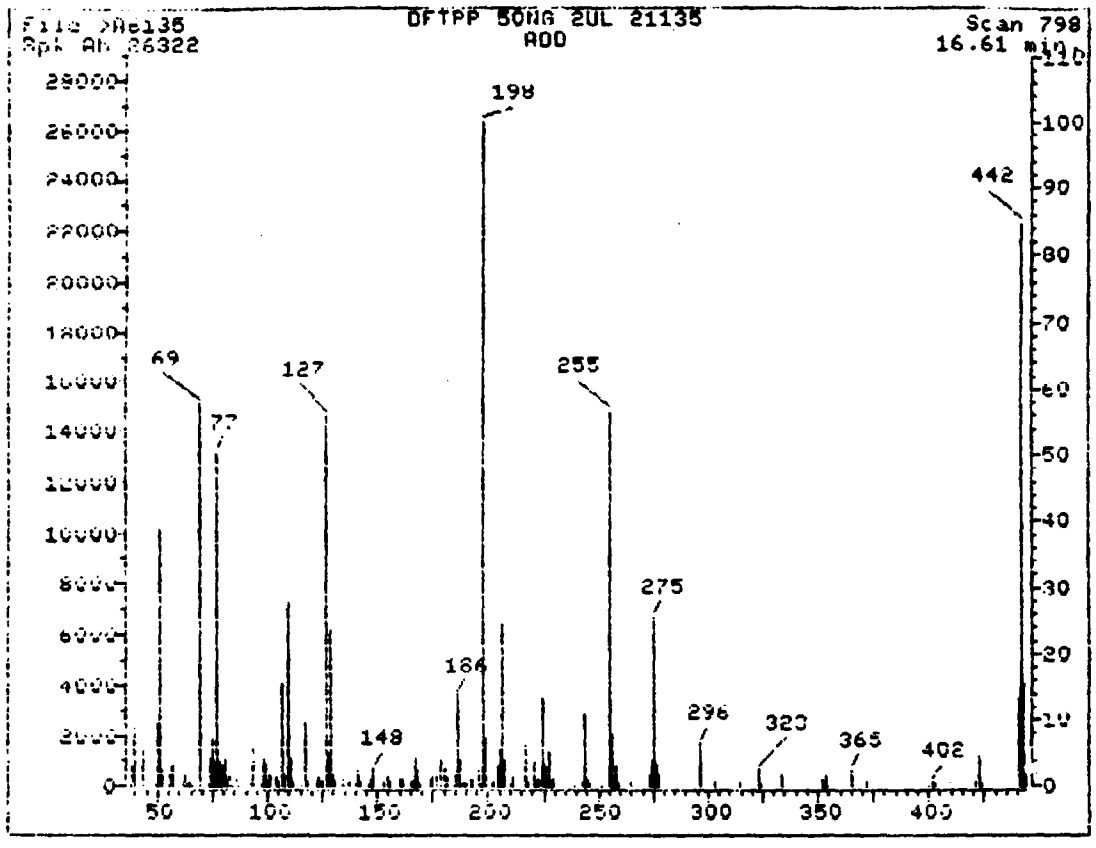
>A6103 DFIPP 50NG 2UL 21135
[illegible] NBM

File: >A6103 Scan #: 802 Retn. time: 16.68

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
[illegible]	.48	97.90	1.95	152.90	.72	202.90	.55	274.90	24.54
[illegible]	.48	98.90	3.13	153.90	.73	204.00	3.20	275.90	3.54
[illegible]	2.66	99.90	.24	154.90	1.58	204.90	6.48	276.90	2.23
[illegible]	6.79	100.90	2.14	155.90	1.62	205.90	24.56	292.90	.39
42.90	.51	101.00	.65	156.90	.70	207.00	1.14	295.00	.34
43.90	4.02	103.90	1.33	157.75	.45	207.90	.91	295.90	5.62
49.00	.62	104.90	1.44	158.90	.48	211.75	1.54	296.90	.97
49.90	12.00	106.90	15.35	160.90	1.43	216.90	7.43	302.90	.96
50.90	19.40	107.90	1.80	162.00	.42	217.90	.74	313.90	.44
51.90	1.97	109.90	30.87	164.90	1.15	221.00	3.75	314.90	.90
55.00	.55	110.90	4.98	166.90	4.00	222.90	1.80	320.90	.25
55.90	1.31	116.00	1.23	167.90	1.84	223.90	12.76	323.00	2.72
56.90	3.24	116.90	11.13	168.90	.63	224.90	3.61	326.90	.55
60.90	.61	117.75	.92	171.75	.28	226.90	5.82	333.90	1.89
61.90	.68	121.90	.84	173.90	1.19	228.00	.62	345.75	.53
62.90	2.32	123.00	1.60	175.00	1.97	228.75	1.04	351.90	1.08
65.00	.88	123.90	.00	176.00	.79	230.75	.70	352.75	.50
70.90	56.83	124.50	.30	176.90	1.07	232.75	.28	353.90	1.51
71.75	.45	126.90	52.57	178.90	4.74	234.90	.64	364.90	2.57
73.90	5.94	128.00	3.84	179.90	2.67	242.00	.59	370.75	.28
74.90	8.05	128.90	23.64	181.00	1.34	242.90	.75	371.90	1.30
75.90	52.73	129.90	1.95	184.90	1.83	244.00	10.48	372.90	.39
77.00	1.29	130.90	.09	185.90	14.16	244.90	1.51	382.90	.53
78.00	3.51	131.90	.30	186.90	4.26	245.90	1.67	390.25	.21
79.00	2.52	133.90	.58	188.00	.57	246.75	.61	404.00	.32
80.00	3.13	136.00	.56	189.90	.92	248.90	.42	420.95	.80
81.00	1.42	136.90	.09	192.00	1.39	254.90	58.58	421.95	.44
82.00	.92	140.90	2.48	196.00	2.50	255.90	8.31	423.05	4.07
85.00	1.05	141.00	.57	196.65	.78	256.90	.62	423.95	.76
87.00	.55	146.00	.50	197.90	100.00	258.00	3.60	440.95	10.96
90.90	1.12	147.00	1.15	198.90	8.06	259.00	.79	441.95	66.98
91.75	.87	147.90	2.71	201.25	.64	259.65	.28	442.95	12.82
92.00	6.83	150.75	.24	201.50	.63	273.90	4.12	443.95	1.01

2 2 0709

035-06



MS data file header from : >A6135

Sample: DFTPP 50NG 2UL 21135 Operator: MIKE MS 9/26/86 8:03
Misc :
Sys. #: 1 A MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: DFTPP1 Tuning file: SNA1001 No. of extra records: 1
Source temp.: 225 Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	40.	0000.	0.	0.	0.
Chromatographic times, min. :	4.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	15.0	0.0	0.0	0.0	0.0

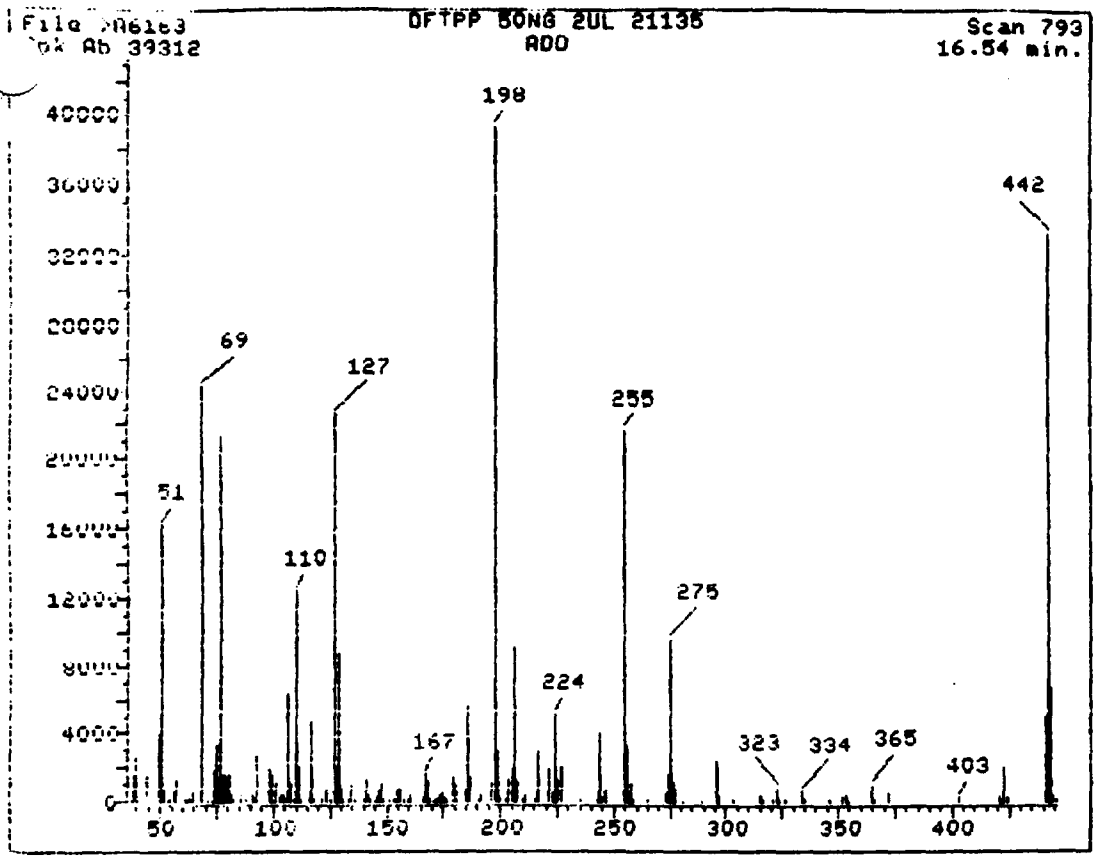
2 2 0710

>A6135 DFIPP 50NG 2UL 21135
798 ADD NRM

File: >A6135 Scan #: 798 Retn. time: 16.61

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.90	.47	90.90	.68	139.80	.30	195.95	2.27	57.[illegible]5	.45
38.90	2.90	91.90	.70	140.95	2.44	196.80	.36	57.[illegible]5	2.99
39.90	8.84	92.90	5.53	141.95	.79	197.95	100.00	58.[illegible]5	.33
43.75	5.21	96.75	.30	146.05	.32	198.95	7.04	64.[illegible]0	.83
49.00	.40	97.90	4.17	146.95	1.06	201.55	.61	72.[illegible]5	1.69
49.75	9.32	98.90	3.43	147.95	2.62	202.80	.76	74.[illegible]5	3.81
50.90	38.66	99.90	.79	152.95	.60	203.95	3.22	75.[illegible]5	25.40
51.90	2.21	100.90	1.85	154.95	1.33	205.05	5.65	75.[illegible]5	3.21
54.90	.47	103.90	1.26	155.95	.65	206.05	24.45	76.[illegible]	2.08
55.90	1.65	104.90	.65	159.95	.95	207.05	3.83	95.[illegible]	6.39
56.90	3.32	106.90	15.33	160.95	.92	209.95	.31	03.[illegible]	.71
61.90	.62	107.90	2.07	164.95	.71	210.95	1.47	14.[illegible]	.57
62.90	1.90	109.90	27.77	165.95	.73	216.95	6.23	22.[illegible]	2.55
63.90	.50	110.90	4.34	167.05	4.26	217.95	.82	24.[illegible]	.38
64.90	.76	111.90	.62	167.95	2.30	220.95	3.76	33.[illegible]	1.72
65.75	.24	115.40	.21	169.05	.28	221.70	.77	51.[illegible]	1.13
68.90	57.33	116.90	9.63	174.05	1.08	222.80	1.01	52.[illegible]	.51
73.00	.44	117.90	.77	174.95	1.52	224.05	13.22	54.[illegible]	1.63
73.90	4.14	122.00	.79	176.95	1.38	225.05	3.10	64.[illegible]	2.45
74.90	7.12	122.90	1.50	178.95	3.79	226.20	.26	71.[illegible]	.68
76.00	3.28	123.90	.68	180.05	2.55	226.95	5.23	99.[illegible]	.19
76.90	49.83	124.90	.65	180.95	1.20	227.95	.67	02.[illegible]5	.61
77.90	3.63	127.00	55.77	183.95	.31	228.95	.95	02.[illegible]5	.39
78.90	2.98	128.00	4.94	184.95	1.98	239.05	.22	21.[illegible]0	.66
79.75	3.12	128.90	23.59	185.95	13.70	242.95	.65	23.[illegible]	4.70
80.90	4.41	129.90	2.09	186.95	3.87	244.05	10.88	24.[illegible]0	.42
81.90	.72	130.90	.77	188.05	.49	245.05	.93	41.[illegible]0	13.5[illegible]
82.90	1.34	133.90	.45	188.95	.49	245.95	.50	42.[illegible]0	84.78
83.75	.22	134.90	1.02	190.20	.26	250.95	.20	43.[illegible]0	15.4[illegible]
85.75	1.03	135.90	.70	191.80	1.02	254.95	56.17	44.[illegible]5	1.71
86.90	.83	136.90	.82	193.05	.89	255.95	7.67		

035-07



MS data file header from : >A6163

Sample: DFTPP 50NG 2UL 21135 Operator: MIKE MS 9/29/86 8:17
Mian :
Sys. #: 1 A MS model: 87 SW/HW rev.: CA ALS # : 0
Method File: DFTPP Tuning File: BNA111 No. of extra records: 1
Source temp.: 225 Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	40.	280.	0.	0.	0.
Chromatographic times, min. :	4.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	15.0	0.0	0.0	0.0	0.0

>A6163 DFTPP 50NG 2UL 21135
793 ADD NRM

File: >A6163 Scan #: 793 Retn. time: 16.54

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
32.90	.59	84.90	.46	139.90	.34	187.00	3.58	274.05	4.24
39.00	3.99	86.00	.90	141.00	3.35	190.90	.32	275.05	24.49
39.90	6.57	87.90	.26	142.00	.95	191.90	.98	276.05	3.09
40.90	.72	91.00	1.14	143.00	.48	196.00	2.58	277.05	1.92
43.90	4.28	92.00	.77	144.90	.23	198.00	100.00	281.05	.20
46.40	.18	93.00	6.84	146.00	.74	199.00	7.39	288.95	.13
49.90	9.89	98.00	4.81	146.90	1.61	200.00	.64	296.05	6.32
51.00	41.32	99.00	3.95	148.00	2.55	202.90	.49	297.05	1.01
52.00	1.57	99.90	.23	149.00	.40	204.00	3.35	302.95	.35
53.15	.14	101.00	2.52	151.75	.42	205.00	4.95	315.05	.89
53.50	.20	102.90	.70	153.00	.53	206.00	23.14	316.05	.41
54.90	.25	103.90	.89	154.00	.39	207.00	3.05	321.05	.27
56.00	1.35	104.90	1.02	155.00	2.12	210.40	.25	323.05	2.03
57.00	3.36	105.90	.53	156.00	2.08	211.00	1.19	324.05	.26
58.90	.21	107.00	15.97	157.65	.17	216.00	.41	326.00	.31
61.00	.56	108.00	2.60	158.00	.48	217.00	7.30	334.05	1.62
61.75	.30	109.00	.25	160.00	.44	221.00	4.89	335.05	.33
62.90	.57	110.00	31.73	161.00	1.18	221.75	.64	346.05	.25
64.00	.49	111.00	5.08	166.00	.84	223.00	1.35	351.95	.69
64.25	.28	112.00	.55	167.00	4.23	224.00	13.17	354.05	.92
64.90	1.45	115.90	.59	168.00	2.38	225.00	3.24	354.95	.19
68.90	61.75	116.90	11.84	169.00	.36	227.00	5.28	364.95	2.45
70.90	.16	117.90	.50	170.65	.16	234.90	.41	365.95	.32
72.75	.23	121.75	.55	172.00	.36	243.00	.38	372.05	1.27
74.00	4.63	123.00	1.58	173.00	.50	244.00	10.31	403.05	.66
75.00	8.46	124.90	.53	174.00	.95	245.00	.67	421.05	.67
76.00	3.26	127.00	52.93	175.00	1.25	246.00	1.72	422.05	.51
77.00	54.39	127.90	4.41	176.00	.66	255.00	55.59	423.05	5.06
78.00	4.04	129.00	22.33	176.90	.55	256.00	8.33	424.05	.80
79.00	3.99	130.00	2.13	179.00	3.71	257.05	.60	441.05	12.80
80.00	3.37	131.00	.34	180.00	2.28	258.05	7.51	442.05	84.77
80.90	4.20	134.00	.51	181.00	1.30	259.05	.28	443.05	17.17
81.90	.95	135.00	2.34	185.00	2.03	265.05	.50	444.05	1.07
82.90	.59	136.75	.42	186.00	14.25	273.05	1.52	446.05	.25

2 2 0713

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

Laboratory Name: _____

~~Case No~~ Client: Envirespense

Sample Number
H Blk I (L/W)

037-02

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9/18/86

Date Analyzed: 9/22/86

Conc/Dil Factor: 1

Percent Moisture (Decanted) NA

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☒Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	11 N
108-95-2	Phenol	10 u
111-44-4	bis(-2-Chloroethyl)Ether	10 u
95-57-8	2-Chlorophenol	10 u
541-73-1	1, 3-Dichlorobenzene	10 u
106-46-7	1, 4-Dichlorobenzene	10 u
95-50-1	1, 2-Dichlorobenzene	10 u
39638-32-9	bis(2-chloroisopropyl)Ether	10 u
621-64-7	N-Nitroso-Di-n-Propylamine	10 u
67-72-1	Hexachloroethane	10 u
98-95-3	Nitrobenzene	10 u
78-59-1	Isophorone	10 u
88-75-5	2-Nitrophenol	10 u
105-67-9	2, 4-Dimethylphenol	10 u
111-91-1	bis(-2-Chloroethoxy)Methane	10 u
120-83-2	2, 4-Dichlorophenol	10 u
120-82-1	1, 2, 4-Trichlorobenzene	10 u
91-20-3	Naphthalene	10 u
87-68-3	Hexachlorobutadiene	10 u
59-50-7	4-Chloro-3-Methylphenol	10 u
77-47-4	Hexachlorocyclopentadiene	10 u
88-06-2	2, 4, 6-Trichlorophenol	10 u
91-58-7	2-Chloronaphthalene	10 u
131-11-3	Dimethyl Phthalate	10 u
208-96-8	Acenaphthylene	10 u

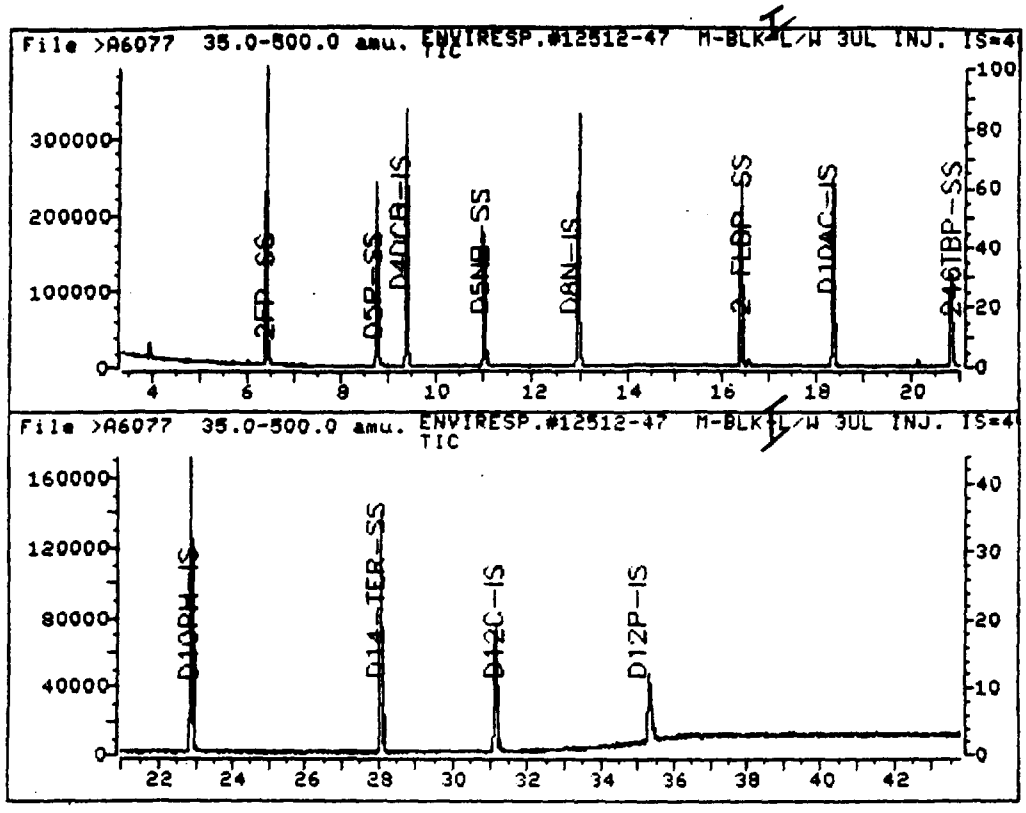
CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	10 u
51-28-5	2, 4-Dinitrophenol	50 u
100-02-7	4-Nitrophenol	50 u
121-14-2	2, 4-Dinitrotoluene	10 u
606-20-2	2, 6-Dinitrotoluene	10 u
84-66-2	Diethylphthalate	4 J
7005-72-3	4-Chlorophenyl-phenylether	10 u
86-73-7	Fluorene	10 u
534-52-1	4, 6-Dinitro-2-Methylphenol	50 u
86-30-6	N-Nitrosodiphenylamine (1)	10 u
101-55-3	4-Bromophenyl-phenylether	10 u
118-74-1	Hexachlorobenzene	10 u
87-86-5	Pentachlorophenol	50 u
85-01-8	Phenanthrene	10 u
120-12-7	Anthracene	10 u
84-74-2	Di-n-Butylphthalate	10 u
206-44-0	Fluoranthene	10 u
92-87-5	Benzidine	160 N
129-00-0	Pyrene	10 u
85-68-7	Butylbenzylphthalate	10 u
91-94-1	3, 3'-Dichlorobenzidine	28 N
56-55-3	Benzo(a)Anthracene	10 u
117-81-7	bis(2-Ethylhexyl)Phthalate	10 u
218-01-9	Chrysene	10 u
117-84-0	Di-n-Octyl Phthalate	10 u
205-99-2	Benzo(b)Fluoranthene	11 N
207-08-9	Benzo(k)Fluoranthene	10 u
50-32-8	Benzo(a)Pyrene	10 u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	13 N
53-70-3	Dibenz(a, h)Anthracene	16 N
191-24-2	Benzo(g, h, i)Perylene	17 N

(1)-Cannot be separated from diphenylamine

Form I

2 2 0714

038-02



MS data file header from : >A6077

Sample: ENVIRESP.#12512-47 Operator: MIKE MS 9/22/86 13:13
Misc : M-BLK L/W 3UL INJ. IS=40NG(#41005;20UL) BTL# 1
Sys. #: 1A MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: BNAME1 Tuning file: BNATU1 No. of extra records: 1
Source temp.: 225 Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	2.0	8.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

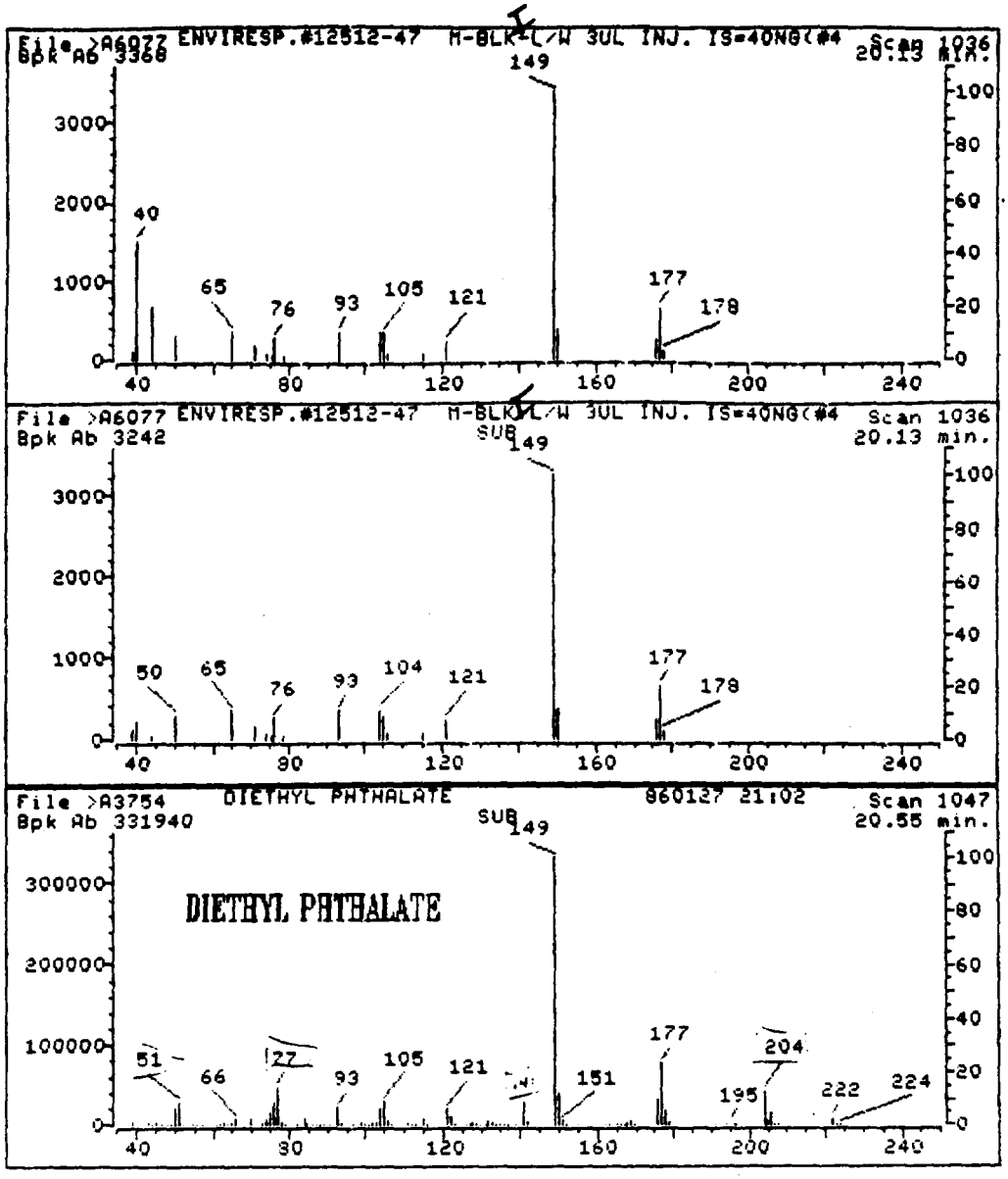
QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860922 14:15
Output File: ^A6077::AA Injected at: 860922 13:13
Data File: >A6077::DD Dilution Factor: 2.000
Name: ENVIRESP.#12512-47
Misc: M-BLK-L/W 3UL INJ. IS=40NG(#41005;20UL) BTL# 1

ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860922 13:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-D4 (IS)	9.38	379	126240	40.00	ug/L	82
16)	2-FLUOROPHENOL (SS)	6.40	197	254006	118.71	ug/L	98
17)	PHENOL-D5 (SS)	8.76	341	218518	88.48	ug/L	89
18)	*NAPHTHALENE-D8 (IS)	12.96	598	407883	40.00	ug/L	100
32)	NITROBENZENE-D5 (SS)	11.00	478	160158	80.10	ug/L	93
33)	*ACENAPHTHENE-D10(IS)	18.34	927	166434	40.00	ug/L	96
48)	DIETHYL PHTHALATE	20.13	1036	10185	4.41	ug/L	89
52)	2-FLUOROBIPHENYL (SS)	16.41	809	217933	70.17	ug/L	100
53)	2,4,6-TRIBROMOPHENOL (SS)	20.81	1078	41140	163.16	ug/L	100
54)	*PHENANTHRENE-D10 (IS)	22.86	1203	209232	40.00	ug/L	100
64)	*CHRYSENE-D12 (IS)	31.15	1710	43130	40.00	ug/L	100
72)	TERPHENYL-D14 (SS)	28.04	1520	159979	104.82	ug/L	100
73)	*PERYLENE-D12 (IS)	35.32	1965	56596	40.00	ug/L	100

* Compound is ISTD



m/z = 51, 77, 141, 204 are from 4-chloro phenyl - phenyl ether which is coeluting in the STD mix and could not be subtracted out

2 2 0717

Laboratory Name: CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

Client ~~Case No~~ Enviresponse

Sample Number
M-Blk I(oil)

037-05

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9/26/86

Date Analyzed: 9/26/86 (A6141)

Conc/Dil Factor: 1

Percent Moisture (Decanted): NA

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

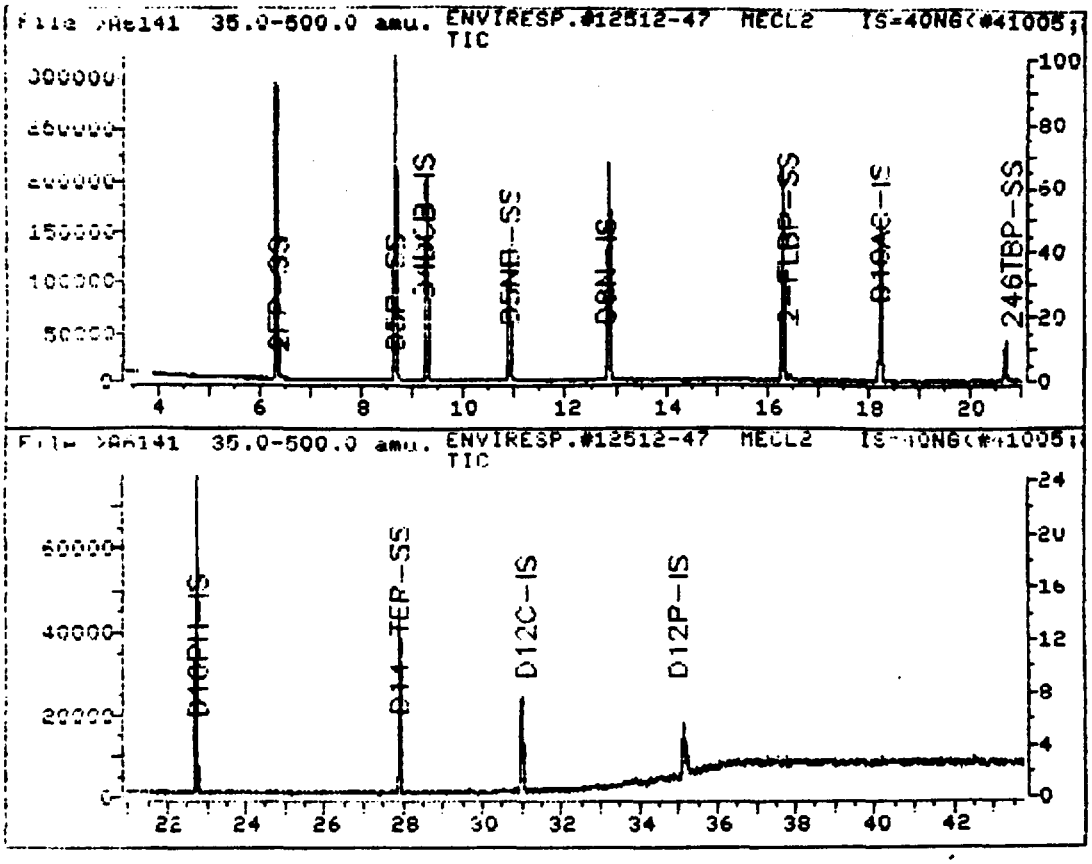
Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	11000 N
108-95-2	Phenol	10000 U
111-44-4	bis(-2-Chloroethyl)Ether	10000 U
95-57-8	2-Chlorophenol	10000 U
541-73-1	1, 3-Dichlorobenzene	10000 U
106-46-7	1, 4-Dichlorobenzene	10000 U
95-50-1	1, 2-Dichlorobenzene	10000 U
39638-32-9	bis(2-chloroisopropyl)Ether	10000 U
621-64-7	N-Nitroso-Di-n-Propylamine	10000 U
67-72-1	Hexachloroethane	10000 U
98-95-3	Nitrobenzene	10000 U
78-59-1	Isophorone	10000 U
88-75-5	2-Nitrophenol	10000 U
105-67-9	2, 4-Dimethylphenol	10000 U
111-91-1	bis(-2-Chloroethoxy)Methane	10000 U
120-83-2	2, 4-Dichlorophenol	10000 U
120-82-1	1, 2, 4-Trichlorobenzene	10000 U
91-20-3	Naphthalene	10000 U
87-68-3	Hexachlorobutadiene	10000 U
59-50-7	4-Chloro-3-Methylphenol	10000 U
77-47-4	Hexachlorocyclopentadiene	10000 U
88-06-2	2, 4, 6-Trichlorophenol	10000 U
91-58-7	2-Chloronaphthalene	10000 U
131-11-3	Dimethyl Phthalate	10000 U
208-96-8	Acenaphthylene	10000 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	10000 U
51-28-5	2, 4-Dinitrophenol	50000 U
100-02-7	4-Nitrophenol	50000 U
121-14-2	2, 4-Dinitrotoluene	10000 U
606-20-2	2, 6-Dinitrotoluene	10000 U
84-66-2	Diethylphthalate	10000 U
7005-72-3	4-Chlorophenyl-phenylether	10000 U
86-73-7	Fluorene	10000 U
534-52-1	4, 6-Dinitro-2-Methylphenol	50000 U
86-30-6	N-Nitrosodiphenylamine (1)	10000 U
101-55-3	4-Bromophenyl-phenylether	10000 U
118-74-1	Hexachlorobenzene	10000 U
87-86-5	Pentachlorophenol	50000 U
85-01-8	Phenanthrene	10000 U
120-12-7	Anthracene	10000 U
84-74-2	Di-n-Butylphthalate	10000 U
206-44-0	Fluoranthene	10000 U
92-87-5	Benzidine	160000 N
129-00-0	Pyrene	10000 U
85-68-7	Butylbenzylphthalate	10000 U
91-94-1	3, 3'-Dichlorobenzidine	28000 N
56-55-3	Benzo(a)Anthracene	10000 U
117-81-7	bis(2-Ethylhexyl)Phthalate	10000 U
218-01-9	Chrysene	10000 U
117-84-0	Di-n-Octyl Phthalate	10000 U
205-99-2	Benzo(b)Fluoranthene	11000 N
207-08-9	Benzo(k)Fluoranthene	10000 U
50-32-8	Benzo(a)Pyrene	10000 U
193-39-5	Indeno(1, 2, 3-cd)Pyrene	13000 N
53-70-3	Dibenz(a, h)Anthracene	16000 N
191-24-2	Benzo(g, h, i)Perylene	17000 N

(1)-Cannot be separated from diphenylamine

Form I



MS data file header from : >A6141

Sample: ENVIRESP.#12512-47 Operator: MIKE MS 9/26/86 15:47
Misc : MECL2 IS=40NG(#41005;20UL) SS=100/50NG(#30218) BTL# 4
Sys. #: 1 MS model: H7 SW/HW rev.: UA BUS # : 11
Method file: BNAME1 Tuning file: BNATU1 No. of extra records: 1
Source temp.: 225 Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	2.0	8.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

039-04

QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 861001 12:58
Output File: ^A6141::AQ Injected at: 860926 15:42
Data File: >A6141::EE Dilution Factor: 1.000
Name: ENVIRESP.#12512-47
Misc: MECL2 IS=40NG(#41005;20UL) SS=100/50NG(#30218) BTL# 4

ID File: BNSID1::D1
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 861001 12:33

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-D4 (IS)	9.28	371	75833	40.00	ug/Kg	84
16)	2-FLUOROPHENOL (SS)*	6.32	190	233889	88.65	ug/Kg	100
17)	PHENOL-D5 (SS).	8.67	334	284721	89.12	ug/Kg	100
18)	*NAPHTHALENE-D8 (IS)	12.86	590	264958	40.00	ug/Kg	100
32)	NITROBENZENE-D5 (SS)*	10.90	470	123530	44.75	ug/Kg	83
33)	*ACENAPHTHENE-D10(IS)	18.22	918	102470	40.00	ug/Kg	94
52)	2-FLUOROBIPHENYL (SS)*	16.29	800	179033	43.37	ug/Kg	100
53)	2,4,6-TRIBROMOPHENOL (SS)*	20.68	1068	12537	49.20	ug/Kg	100
54)	*PHENANTHRENE-D10 (IS)	22.72	1193	91147	40.00	ug/Kg	100
64)	*CHRYSENE-D12 (IS)	30.98	1698	12665	40.00	ug/Kg	100
72)	TERPHENYL-D14 (SS)*	27.89	1509	47104	47.61	ug/Kg	100
73)	*PERYLENE-D12 (IS)	35.13	1952	16802	40.00	ug/Kg	100

* Compound is ISTD

2 2 0720

Laboratory Name: CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

Client ~~Case No.~~ Enviresponse

Sample Number
7334 MS(oil)

042-02

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9/29/86

Date Analyzed: 9/29/86 (A6170)

Conc/Dil Factor: 10

Percent Moisture (Decanted) NA

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

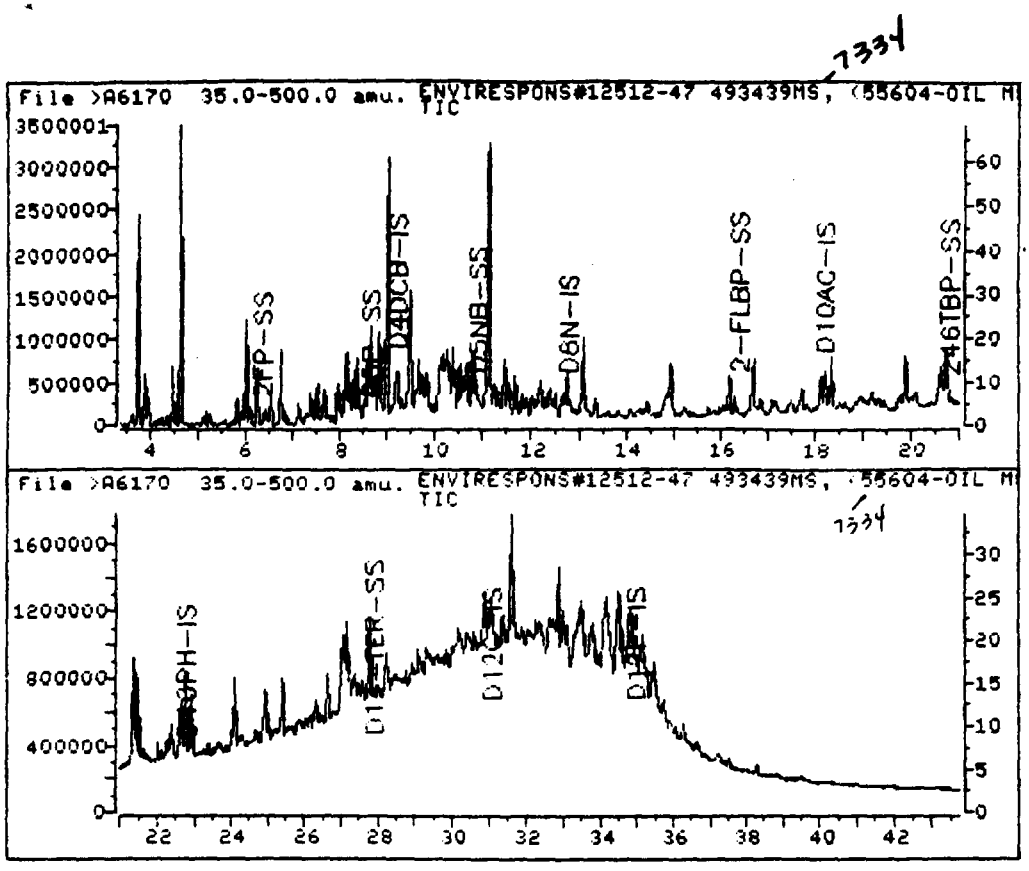
CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	120000 N
108-95-2	Phenol	700000 M
111-44-4	bis(-2-Chloroethyl)Ether	110000 U
95-57-8	2-Chlorophenol	690000 M
541-73-1	1, 3-Dichlorobenzene	110000 U
106-46-7	1, 4-Dichlorobenzene	410000 M
95-50-1	1, 2-Dichlorobenzene	110000 U
39638-32-9	bis(2-chloroisopropyl)Ether	110000 U
621-64-7	N-Nitroso-Di-n-Propylamine	590000 M
67-72-1	Hexachloroethane	110000 U
98-95-3	Nitrobenzene	110000 U
78-59-1	Isophorone	110000 U
88-75-5	2-Nitrophenol	110000 U
105-67-9	2, 4-Dimethylphenol	150000
111-91-1	bis(-2-Chloroethoxy)Methane	110000 U
120-83-2	2, 4-Dichlorophenol	110000 U
120-82-1	1, 2, 4-Trichlorobenzene	400000 M
91-20-3	Naphthalene	130000
87-68-3	Hexachlorobutadiene	18000 J
59-50-7	4-Chloro-3-Methylphenol	760000 M
77-47-4	Hexachlorocyclopentadiene	110000 U
88-06-2	2, 4, 6-Trichlorophenol	110000 U
91-58-7	2-Chloronaphthalene	110000 U
131-11-3	Dimethyl Phthalate	110000 U
208-96-8	Acenaphthylene	110000 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	440000 M
51-28-5	2, 4-Dinitrophenol	560000 U
100-02-7	4-Nitrophenol	120000 M
121-14-2	2, 4-Dinitrotoluene	330000 M
606-20-2	2, 6-Dinitrotoluene	110000 U
84-66-2	Diethylphthalate	110000 U
7005-72-3	4-Chlorophenyl-phenylether	110000 U
86-73-7	Fluorene	21000 J
534-52-1	4, 6-Dinitro-2-Methylphenol	560000 U
86-30-6	N-Nitrosodiphenylamine (1)	110000 U
101-55-3	4-Bromophenyl-phenylether	110000 U
118-74-1	Hexachlorobenzene	110000 U
87-86-5	Pentachlorophenol	930000 M
85-01-8	Phenanthrene	80000 J
120-12-7	Anthracene	110000 U
84-74-2	Di-n-Butylphthalate	110000 U
206-44-0	Fluoranthene	5600 J
92-87-5	Benzidine	1800000 N
129-00-0	Pyrene	360000 M
85-68-7	Butylbenzylphthalate	22000 J
91-94-1	3, 3'-Dichlorobenzidine	510000 N
56-55-3	Benzo(a)Anthracene	110000 U
117-81-7	bis(2-Ethylhexyl)Phthalate	360000
218-01-9	Chrysene	110000 U
117-84-0	Di-n-Octyl Phthalate	110000 U
205-99-2	Benzo(b)Fluoranthene	120000 N
207-08-9	Benzo(k)Fluoranthene	110000 U
50-32-8	Benzo(a)Pyrene	110000 U
193-39-5	Indeno(1, 2, 3-cd)Pyrene	150000 N
53-70-3	Dibenz(a, h)Anthracene	180000 N
191-24-2	Benzo(g, h, i)Perylene	190000 N

(1)-Cannot be separated from diphenylamine

Form I

043-02



MS data file header from : >A6170

Sample: ENVIRESPONS#12512-47 7334 Operator: MIKE MS 9/29/86 18:55
Misc : 493439MS, (55604-OIL MS) 1:10 DIL IS=40NG(20UL#41005)
Sys. #: 14 MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: BNAME1 Tuning file: BNATU1 No. of extra records: 1
Source temp.: 225 Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	2.0	8.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

044-02

QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 861001 19:33
Output File: ^A6170::AQ Injected at: 860929 18:55
Data File: >A6170::CC Dilution Factor: 1.124 *
Name: ENVIRESPONS#12512-47 1334
Misc: 493439MS, (55604-OIL MS) 1:10 DIL IS=40NG(20UL#41005)

ID File: BNSID1::D1
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 861001 17:45

	Compound	R.T.	Scan#	Area	Conc	Units	q	** ug/kg (x 10000)
1)	*1,4-DICHLOROBENZENE-D4 (IS)	9.18	367	194331	40.00	ug/Kg	86	
3)	PHENOL	8.64	334	556617	69.62	ug/Kg	99	696200
6)	2-CHLOROPHENOL	8.74	340	438205	68.73	ug/Kg	100	687300
8)	1,4-DICHLOROBENZENE	9.23	370	245183	41.08	ug/Kg	88	410800
14)	N-NITROSO-DI-n-PROPYLAMINE	10.58	452	211160	58.73	ug/Kg	77	587300
16)	2-FLUOROPHENOL (SS)	6.24	188	477760	77.99	ug/Kg	100	
17)	PHENOL-D5 (SS)	8.62	333	624961	83.16	ug/Kg	100	
18)	*NAPHTHALENE-D8 (IS)	12.75	584	694131	40.00	ug/Kg	100	
22)	2,4-DIMETHYLPHENOL	12.11	545	63886	14.76	ug/Kg	85	147600
26)	1,2,4-TRICHLOROBENZENE	12.67	579	172670	39.54	ug/Kg	98	395400
27)	NAPHTHALENE	12.80	587	210419	13.31	ug/Kg	94	133100
29)	HEXACHLOROBUTADIENE	13.44	626	3878	1.83	ug/Kg	83	18300
30)	4-CHLORO-3-METHYLPHENOL	14.83	710	330161	75.59	ug/Kg	100	755900
32)	NITROBENZENE-D5 (SS)	10.79	465	269261	45.06	ug/Kg	83	
33)	*ACENAPHTHENE-D10(IS)	18.11	909	341774	40.00	ug/Kg	96	
42)	ACENAPHTHENE	18.19	914	329048	43.72	ug/Kg	85	437200
44)	4-NITROPHENOL	18.87	955	18571	11.86	ug/Kg	100	118600
46)	2,4-DINITROTOLUENE	18.97	961	94659	33.37	ug/Kg	96	333700
50)	FLUORENE	19.75	1008	19795	2.14	ug/Kg	99	21400
52)	2-FLUOROBIPHENYL (SS)	16.18	792	451131	40.95	ug/Kg	100	
53)	2,4,6-TRIBROMOPHENOL (SS)	20.58	1058	112752	92.62	ug/Kg	100	
54)	*PHENANTHRENE-D10 (IS)	22.60	1180	494059	40.00	ug/Kg	100	
59)	PENTACHLOROPHENOL	22.35	1165	111589	93.08	ug/Kg	92	930800
60)	PHENANTHRENE	22.66	1184	86314	7.97	ug/Kg	100	79700
63)	FLUORANTHENE	25.20	1337	5127	.56	ug/Kg	47	5600
64)	*CHRYSENE-D12 (IS)	30.88	1678	194585	40.00	ug/Kg	100	
66)	PYRENE	27.03	1447	491807	36.29	ug/Kg	100	362900
67)	BUTYLBENZYL PHTHALATE	29.58	1600	14000	2.19	ug/Kg	51	21900
70)	BIS(2-ETHYLHEXYL) PHTHALATE	31.58	1720	329374	36.05	ug/Kg	100	360500
72)	TERPHENYL-D14 (SS)	27.78	1492	428492	39.18	ug/Kg	100	
73)	*PERYLENE-D12 (IS)	35.03	1926	109079	40.00	ug/Kg	100	

* Compound is ISTD

* Based on an oil density of 0.890 g/mL

** Calculation used to account for a 1/10 dilution on 1 mL of sample (oil)

Laboratory Name: CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

Case No. Enviresponse client

2 2 0723

Sample Number: 7346 MS

042-05

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9/18/86

Date Analyzed: 9/22/86 (A6083)

Conc/Dil Factor: 1

Percent Moisture (Decanted): NA

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☒Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	15 N
108-95-2	Phenol	120 M
111-44-4	bis(-2-Chloroethyl)Ether	13 u
95-57-8	2-Chlorophenol	200 M
541-73-1	1, 3-Dichlorobenzene	13 u
106-46-7	1, 4-Dichlorobenzene	66 M
95-50-1	1, 2-Dichlorobenzene	13 u
39638-32-9	bis(2-chloroisopropyl)Ether	13 u
621-64-7	N-Nitroso-Di-n-Propylamine	89 M
67-72-1	Hexachloroethane	13 u
98-95-3	Nitrobenzene	13 u
78-59-1	Isophorone	13 u
88-75-5	2-Nitrophenol	13 u
105-67-9	2, 4-Dimethylphenol	13 u
111-91-1	bis(-2-Chloroethoxy)Methane	13 u
120-83-2	2, 4-Dichlorophenol	13 u
120-82-1	1, 2, 4-Trichlorobenzene	69 M
91-20-3	Naphthalene	13 u
87-68-3	Hexachlorobutadiene	13 u
59-50-7	4-Chloro-3-Methylphenol	280 M
77-47-4	Hexachlorocyclopentadiene	13 u
88-06-2	2, 4, 6-Trichlorophenol	13 u
91-58-7	2-Chloronaphthalene	13 u
131-11-3	Dimethyl Phthalate	13 u
208-96-8	Acenaphthylene	13 u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	89 M
51-28-5	2, 4-Dinitrophenol	66 u
100-02-7	4-Nitrophenol	100 M
121-14-2	2, 4-Dinitrotoluene	120 M
606-20-2	2, 6-Dinitrotoluene	13 u
84-66-2	Diethylphthalate	3J, B
7005-72-3	4-Chlorophenyl-phenylether	13 u
86-73-7	Fluorene	13 u
534-52-1	4, 6-Dinitro-2-Methylphenol	66 u
86-30-6	N-Nitrosodiphenylamine (1)	13 u
101-55-3	4-Bromophenyl-phenylether	13 u
118-74-1	Hexachlorobenzene	13 u
87-86-5	Pentachlorophenol	240 M
85-01-8	Phenanthrene	13 u
120-12-7	Anthracene	13 u
84-74-2	Di-n-Butylphthalate	13 u
206-44-0	Fluoranthene	13 u
92-87-5	Benzidine	210 N
129-00-0	Pyrene	150 M
85-68-7	Butylbenzylphthalate	13 u
91-94-1	3, 3'-Dichlorobenzidine	37 N
56-55-3	Benzo(a)Anthracene	13 u
117-81-7	bis(2-Ethylhexyl)Phthalate	13 u
218-01-9	Chrysene	13 u
117-84-0	Di-n-Octyl Phthalate	13 u
205-99-2	Benzo(b)Fluoranthene	15 N
207-08-9	Benzo(k)Fluoranthene	13 u
50-32-8	Benzo(a)Pyrene	13 u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	17 N
53-70-3	Dibenzo(a, h)Anthracene	21 N
191-24-2	Benzo(g, h, i)Perylene	23 N

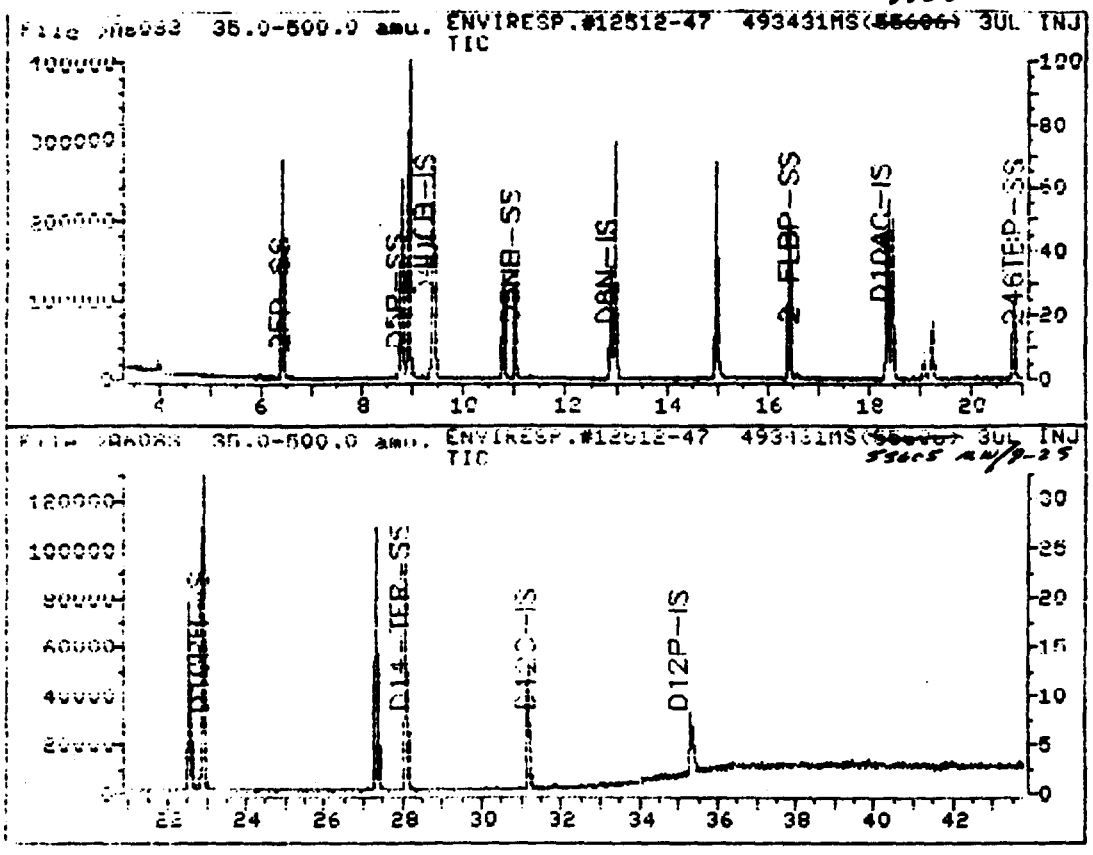
(1)-Cannot be separated from diphenylamine

Form I

2 2 0724

043-04

7346
55605 MW 9/25



MS data file header from : >A6083

Sample: ENVIRESP.#12512-47 Operator: MIKE MS 9/22/86 19:19
Mass : 493431MS(55606) 7346 3UL INJ. IS=40NG(#41005;20UL) BTL# 6
Sys. #: 1A MS model: 8. SW/HW rev.: CA ALS # : 0
Method File: BNAME1 Tuning File: BNATU1 No. of extra records: 1
Source temp.: 225 Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	2.0	8.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

044-04

QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860922 20:13
Output File: ^A6083::AA Injected at: 860922 19:19
Data File: >A6083::DD Dilution Factor: 2.660
Name: ENVIRESP.#12512-47
Misc: 493431MS(~~55606~~ 55605 4/25 -MW) 3UL INJ. IS=40NG(#41005;20UL) BTL# 6

ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860922 13:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-D4 (IS)	9.39	377	104783	40.00	ug/L	83
3)	PHENOL	8.80	341	200605	120.33	ug/L	82
6)	2-CHLOROPHENOL	8.94	349	271416	196.06	ug/L	95
8)	1,4-DICHLOROBENZENE	9.43	379	103299	66.38	ug/L	91
14)	N-NITROSO-DI-n-PROPYLAMINE	10.78	462	84719	88.52	ug/L	78
16)	2-FLUOROPHENOL (SS)	6.42	195	212399	159.05	ug/L	99
17)	PHENOL-D5 (SS)	8.77	339	178991	116.13	ug/L	90
18)	*NAPHTHALENE-D8 (IS)	12.98	596	354253	40.00	ug/L	100
26)	1,2,4-TRICHLOROBENZENE	12.89	591	69848	69.07	ug/L	95
30)	4-CHLORO-3-METHYLPHENOL	14.97	718	183519	232.11	ug/L	86
32)	NITROBENZENE-D5 (SS)	11.01	476	126483	96.87	ug/L	82
33)	*ACENAPHTHENE-D10(IS)	18.36	925	141646	40.00	ug/L	93
42)	ACENAPHTHENE	18.46	931	134448	88.60	ug/L	78
44)	4-NITROPHENOL	19.08	969	18787	100.46	ug/L	69
46)	2,4-DINITROTOLUENE	19.22	978	45352	118.73	ug/L	81
48)	DIETHYL PHTHALATE	20.12	1033	3768	2.55	ug/L	98
52)	2-FLUOROBIPHENYL (SS)	16.43	807	171120	86.10	ug/L	100
53)	2,4,6-TRIBROMOPHENOL (SS)	20.81	1075	32775	203.14	ug/L	100
54)	*PHENANTHRENE-D10 (IS)	22.87	1201	156635	40.00	ug/L	100
59)	PENTACHLOROPHENOL	22.55	1181	30967	243.20	ug/L	100
64)	*CHRYSENE-D12 (IS)	31.15	1707	28179	40.00	ug/L	100
66)	PYRENE	27.30	1472	150491	147.11	ug/L	93
72)	TERPHENYL-D14 (SS)	28.04	1517	106764	142.40	ug/L	100
73)	*PERYLENE-D12 (IS)	35.31	1961	34731	40.00	ug/L	100

* Compound is ISTD

2 2 0726

Laboratory Name: CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

~~Case No~~: Envirespons
ent

Sample Number: 7332

013-03

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9/18/86

Date Analyzed: 9/22/86 (A6078)

Conc/Dil Factor: 1

Percent Moisture (Decanted) NA

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☒Yes

Continuous Liquid - Liquid Extraction ☐Yes

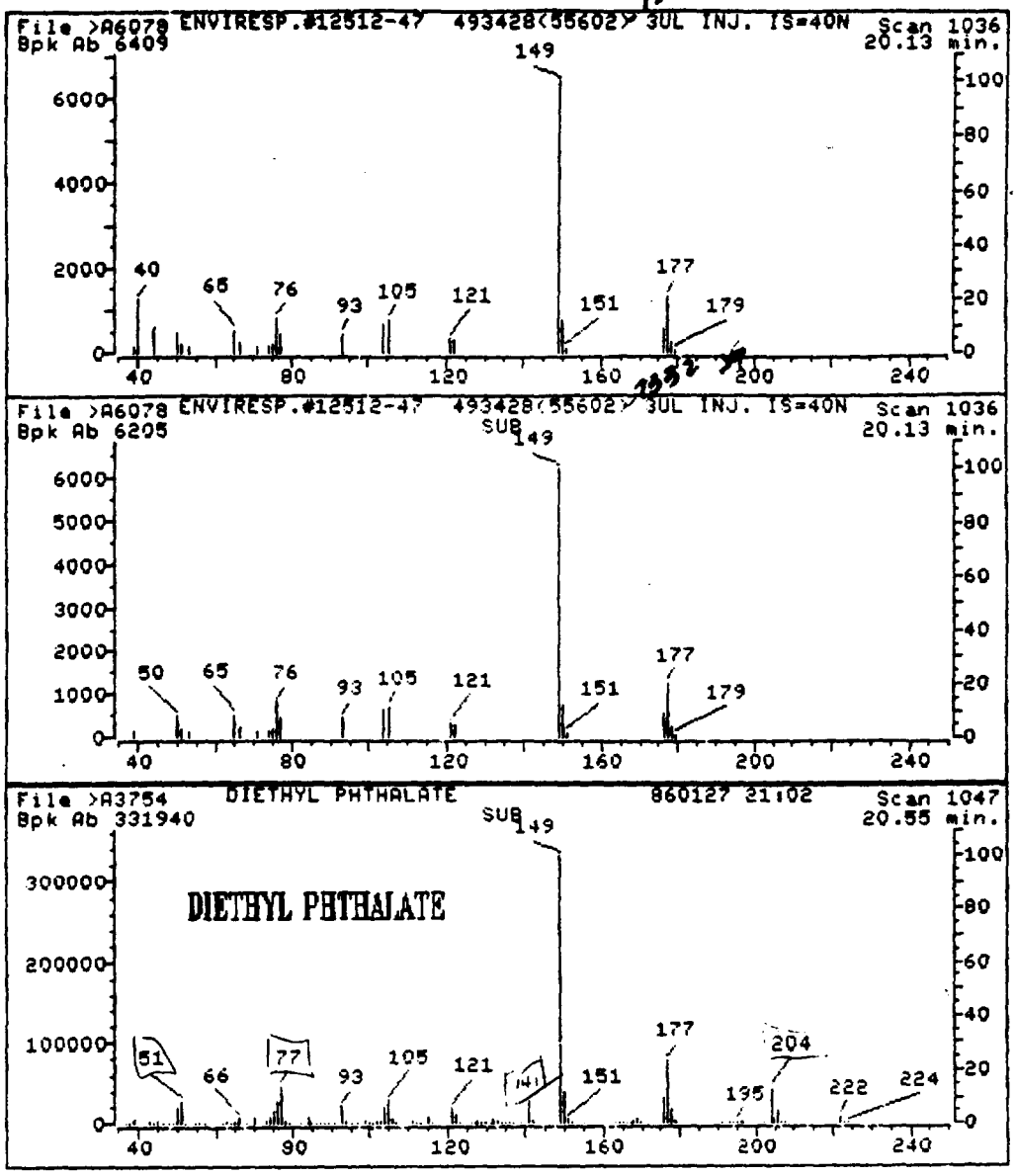
CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	15 N
108-95-2	Phenol	13 U
111-44-4	bis(-2-Chloroethyl)Ether	13 U
95-57-8	2-Chlorophenol	13 U
541-73-1	1, 3-Dichlorobenzene	13 U
106-46-7	1, 4-Dichlorobenzene	13 U
95-50-1	1, 2-Dichlorobenzene	13 U
39638-32-9	bis(2-chloroisopropyl)Ether	13 U
621-64-7	N-Nitroso-Di-n-Propylamine	13 U
67-72-1	Hexachloroethane	13 U
98-95-3	Nitrobenzene	13 U
78-59-1	Isophorone	13 U
88-75-5	2-Nitrophenol	13 U
105-67-9	2, 4-Dimethylphenol	13 U
111-91-1	bis(-2-Chloroethoxy)Methane	13 U
120-83-2	2, 4-Dichlorophenol	13 U
120-82-1	1, 2, 4-Trichlorobenzene	13 U
91-20-3	Naphthalene	13 U
87-68-3	Hexachlorobutadiene	13 U
59-50-7	4-Chloro-3-Methylphenol	13 U
77-47-4	Hexachlorocyclopentadiene	13 U
88-06-2	2, 4, 6-Trichlorophenol	13 U
91-58-7	2-Chloronaphthalene	13 U
131-11-3	Dimethyl Phthalate	13 U
208-96-8	Acenaphthylene	13 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	13 U
51-28-5	2, 4-Dinitrophenol	66 U
100-02-7	4-Nitrophenol	66 U
121-14-2	2, 4-Dinitrotoluene	13 U
606-20-2	2, 6-Dinitrotoluene	13 U
84-66-2	Diethylphthalate	12 J.B
7005-72-3	4-Chlorophenyl-phenylether	13 U
86-73-7	Fluorene	13 U
534-52-1	4, 6-Dinitro-2-Methylphenol	66 U
86-30-6	N-Nitrosodiphenylamine (1)	13 U
101-55-3	4-Bromophenyl-phenylether	13 U
118-74-1	Hexachlorobenzene	13 U
87-86-5	Pentachlorophenol	66 U
85-01-8	Phenanthrene	13 U
120-12-7	Anthracene	13 U
84-74-2	Di-n-Butylphthalate	13 U
206-44-0	Fluoranthene	13 U
92-87-5	Benzidine	210 N
129-00-0	Pyrene	13 U
85-68-7	Butylbenzylphthalate	13 U
91-94-1	3, 3'-Dichlorobenzidine	37 N
56-55-3	Benzo(a)Anthracene	13 U
117-81-7	bis(2-Ethylhexyl)Phthalate	78
218-01-9	Chrysene	13 U
117-84-0	Di-n-Octyl Phthalate	13 U
205-99-2	Benzo(b)Fluoranthene	15 N
207-08-9	Benzo(k)Fluoranthene	13 U
50-32-8	Benzo(a)Pyrene	13 U
193-39-5	Indeno(1, 2, 3-cd)Pyrene	17 N
53-70-3	Dibenz(a, h)Anthracene	21 N
191-24-2	Benzo(g, h, i)Perylene	23 N

064

(1)-Cannot be separated from diphenylamine

Form I



m/z = 51, 77, 141, 204 are from 4-chloro phenyl phenyl ether which is coelut in the STD mix and can not be subtracted away.

QUANT REPORT

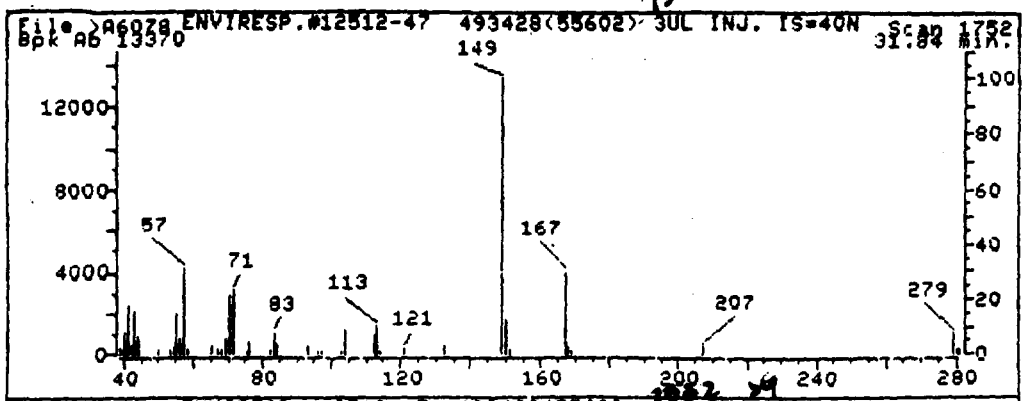
Operator ID: MIKE Quant Rev: 4 Quant Time: 860922 15:13
Output File: ^A6078::AA Injected at: 860922 14:26
Data File: >A6078::DD Dilution Factor: 2.660
Name: ENVIRESP.#12512-47
Misc: 493428(55602) 3UL INJ. IS=40NG(#41005;20UL) BTL# 1

ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860922 13:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-D4 (IS)	9.39	379	119480	40.00	ug/L	82
16)	2-FLUOROPHENOL (SS)	6.41	197	202982	133.30	ug/L	98
17)	PHENOL-D5 (SS)	8.76	341	190574	108.43	ug/L	87
18)	*NAPHTHALENE-D8 (IS)	12.97	598	422628	40.00	ug/L	100
32)	NITROBENZENE-D5 (SS)	11.01	478	144140	92.53	ug/L	85
33)	*ACENAPHTHENE-D10(IS)	18.35	927	167804	40.00	ug/L	95
48)	DIETHYL PHTHALATE	20.13	1036	20191	11.54	ug/L	91
52)	2-FLUOROBIPHENYL (SS)	16.42	809	196404	83.42	ug/L	100
53)	2,4,6-TRIBROMOPHENOL (SS)	20.82	1078	24394	127.62	ug/L	100
54)	*PHENANTHRENE-D10 (IS)	22.86	1203	200132	40.00	ug/L	100
64)	*CHRYSENE-D12 (IS)	31.16	1710	39916	40.00	ug/L	100
70)	BIS(2-ETHYLHEXYL) PHTHALATE	31.84	1752	44764	77.70	ug/L	98
72)	TERPHENYL-D14 (SS)	28.05	1520	34971	127.09	ug/L	100
73)	*PERYLENE-D12 (IS)	35.31	1964	51919	40.00	ug/L	100

* Compound is ISTD

7332 >4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71
83
113
121
167
207
279
12000
8000
4000
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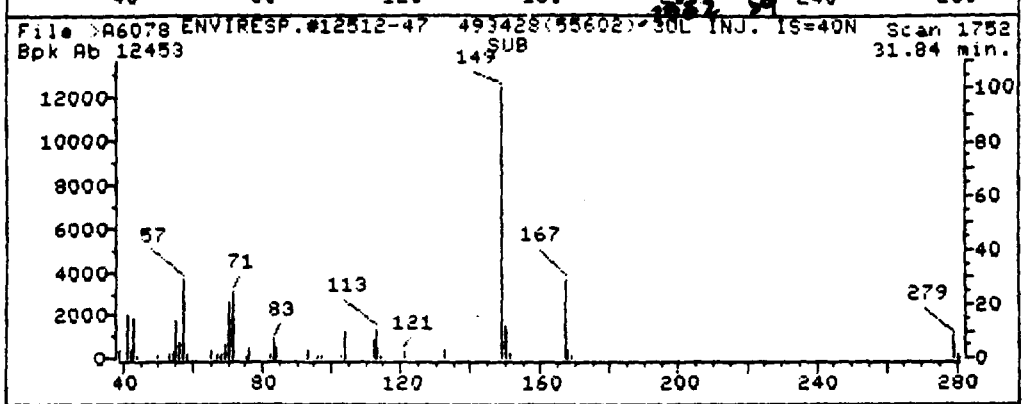
280
100
80
60
40
20
0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57
71
83
113
121
167
279
12000
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20
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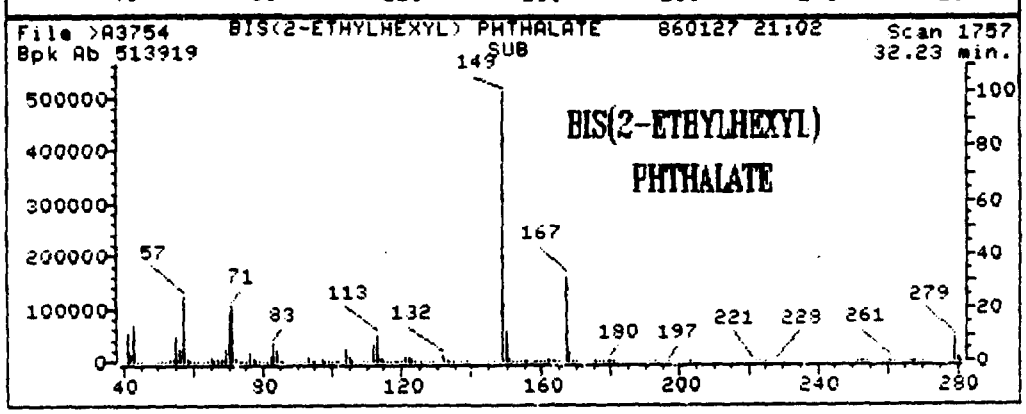
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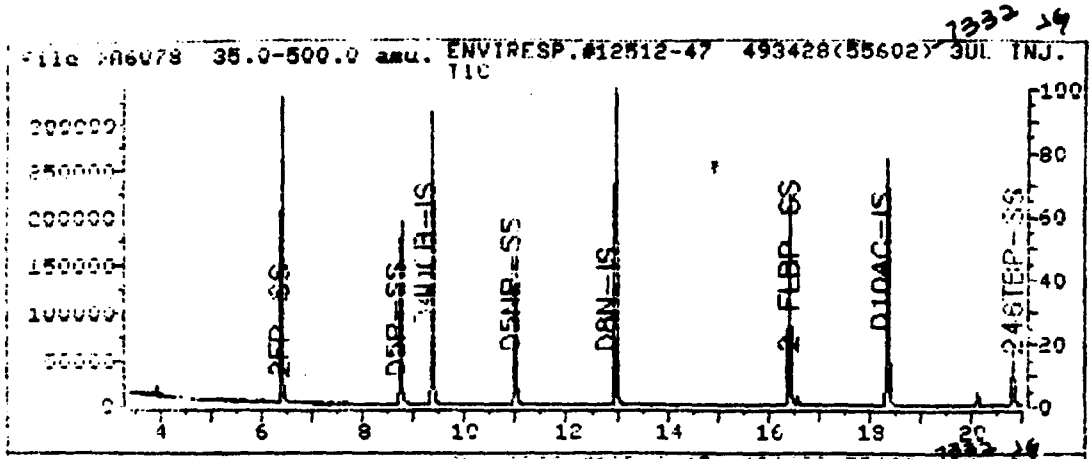
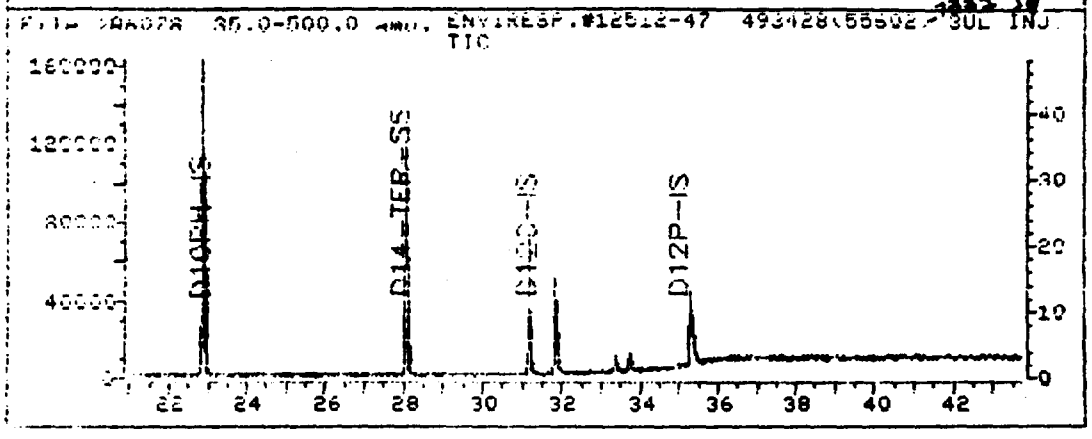
57
71
83
113
132
167
190
197
221
229
261
279
500000
400000
300000
200000
100000
0
40
80
120
160
200
240
280
100
80
60
40
20
0

2 2 0730 014-03





MS data file header from : >A6078

Sample: ENVIRESP.#12512-47 Operator: MIKE MS 9/22/86 14:26
Misc : 493428(55602) 3UL INJ. IS=40NG(#41005;20UL) BTL# 1
Sys. #: 1A MS model: 87 SW/NW rev.: NA ALS # : 0
Method file: BNAME1 Tuning file: BNATU1 No. of extra records: 1
Source temp.: 225 Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	2.0	8.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

2 2 0731

Laboratory Name: CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

~~Case No~~ Client: Envirresponse

Sample Number: 7332 Dup

013-06

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 9/18/86

Date Analyzed: 9/22/86 (A6079)

Conc/Dil Factor: 1

Percent Moisture (Decanted): NA

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☒Yes

Continuous Liquid - Liquid Extraction ☐Yes

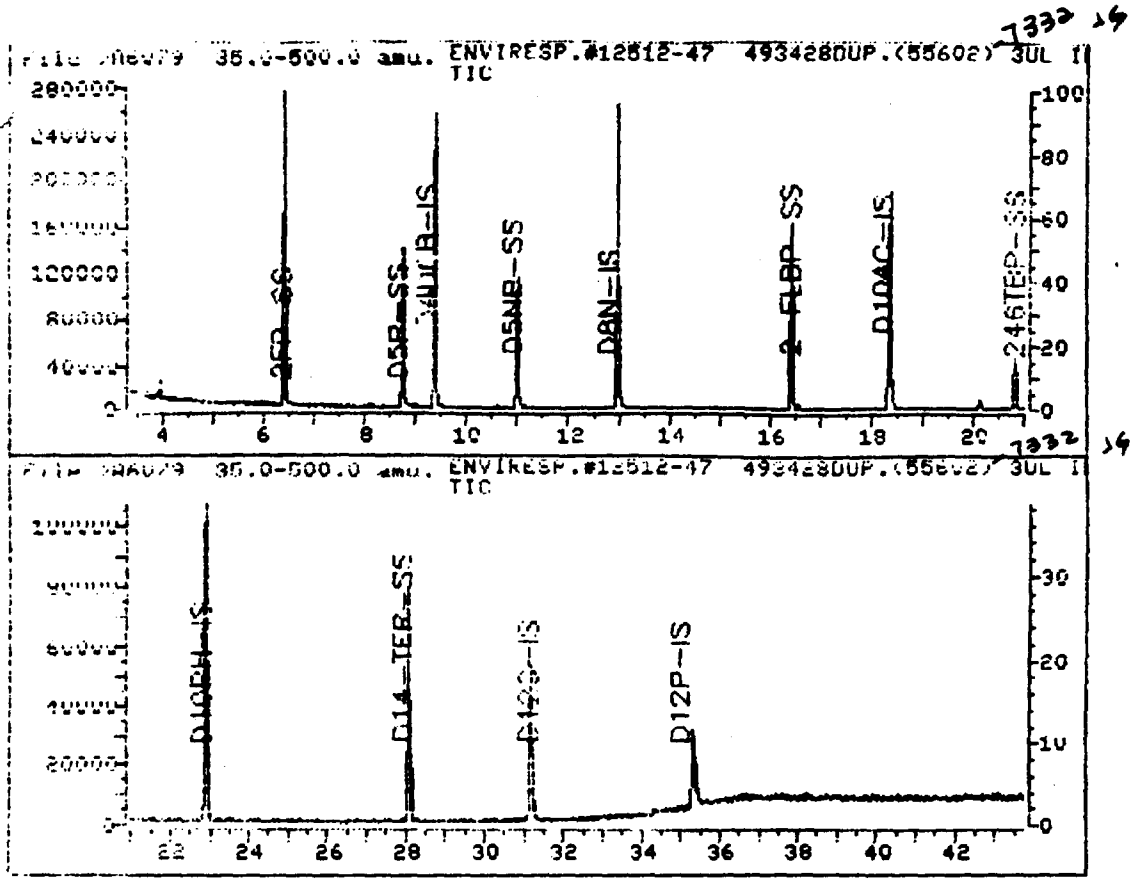
CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	15 N
108-95-2	Phenol	13 u
111-44-4	bis(-2-Chloroethyl)Ether	13 u
95-57-8	2-Chlorophenol	13 u
541-73-1	1, 3-Dichlorobenzene	13 u
106-46-7	1, 4-Dichlorobenzene	13 u
95-50-1	1, 2-Dichlorobenzene	13 u
39638-32-9	bis(2-chloroisopropyl)Ether	13 u
621-64-7	N-Nitroso-Di-n-Propylamine	13 u
67-72-1	Hexachloroethane	13 u
98-95-3	Nitrobenzene	13 u
78-59-1	Isophorone	13 u
88-75-5	2-Nitrophenol	13 u
105-67-9	2, 4-Dimethylphenol	13 u
111-91-1	bis(-2-Chloroethoxy)Methane	13 u
120-83-2	2, 4-Dichlorophenol	13 u
120-82-1	1 2, 4-Trichlorobenzene	13 u
91-20-3	Naphthalene	13 u
87-68-3	Hexachlorobutadiene	13 u
59-50-7	4-Chloro-3-Methylphenol	13 u
77-47-4	Hexachlorocyclopentadiene	13 u
88-06-2	2, 4 6-Trichlorophenol	13 u
91-58-7	2-Chloronaphthalene	13 u
131-11-3	Dimethyl Phthalate	13 u
208-96-8	Acenaphthylene	13 u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	13 u
51-28-5	2, 4-Dinitrophenol	66 u
100-02-7	4-Nitrophenol	66 u
121-14-2	2, 4-Dinitrotoluene	13 u
606-20-2	2, 6-Dinitrotoluene	13 u
84-66-2	Diethylphthalate	8 J, B
7005-72-3	4-Chlorophenyl-phenylether	13 u
86-73-7	Fluorene	13 u
534-52-1	4, 6-Dinitro-2-Methylphenol	66 u
86-30-6	N-Nitrosodiphenylamine (1)	13 u
101-55-3	4-Bromophenyl-phenylether	13 u
118-74-1	Hexachlorobenzene	13 u
87-86-5	Pentachlorophenol	66 u
85-01-8	Phenanthrene	13 u
120-12-7	Anthracene	13 u
84-74-2	Di-n-Butylphthalate	13 u
206-44-0	Fluoranthene	13 u
92-87-5	Benzidine	210 N
129-00-0	Pyrene	13 u
85-68-7	Butylbenzylphthalate	13 u
91-94-1	3, 3'-Dichlorobenzidine	37 N
56-55-3	Benzo(a)Anthracene	13 u
117-81-7	bis(2-Ethylhexyl)Phthalate	13 u
218-01-9	Chrysene	13 u
117-84-0	Di-n-Octyl Phthalate	13 u
205-99-2	Benzo(b)Fluoranthene	15 N
207-08-9	Benzo(k)Fluoranthene	13 u
50-32-8	Benzo(a)Pyrene	13 u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	17 N
53-70-3	Dibenz(a, h)Anthracene	21 N
191-24-2	Benzo(g, h, i)Perylene	23 N

075

(1)-Cannot be separated from diphenylamine

2 2 0732
014-05



MS data file header from : >A6U79

Sample: ENVIRESP.#12512-47 Operator: MIKE MS 9/22/86 15:25
Misc : 493428DUP.(55602) 3UL INJ. IS=40NG(#41005;20UL) BIL# 2
Sys. #: 1A MS model: H7 SW/HW rev.: 1A ALS # : 0
Method file: BNAME1 Tuning file: BNA1U1 No. of extra records: 1
Source temp.: 250 Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	2.0	8.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

015-15

QUANT REPORT

Quant Rev: 4 Quant Time: 860922 16:11
Injected at: 860922 15:25
Dilution Factor: 2.660

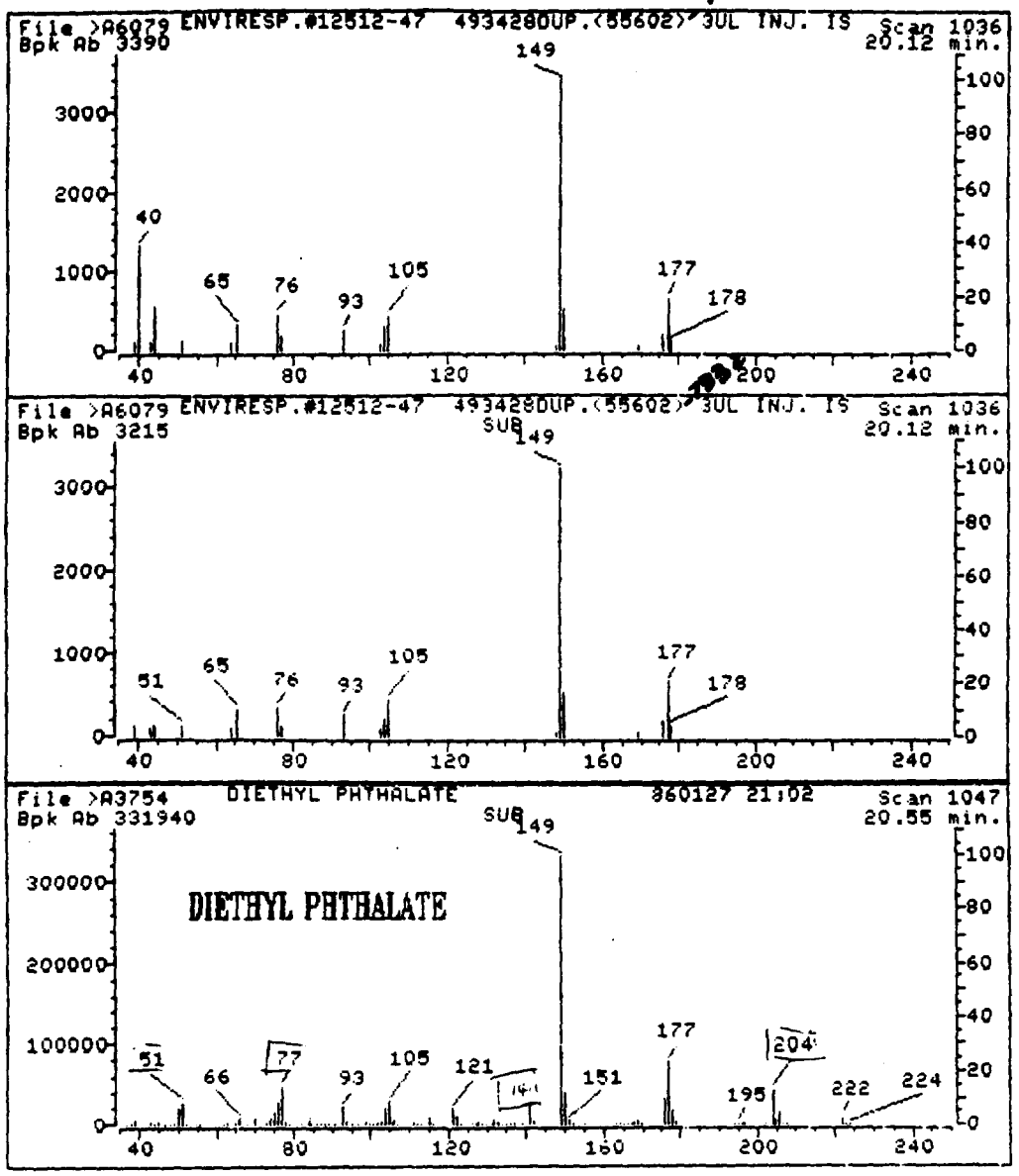
Operator ID: MIKE
Output File: ^A6079::AA
Data File: >A6079::DD
Name: ENVIRESP.#12512-47 >2 >4
Misc: 493428DUP.(55602) 3UL INJ. IS=40NG(#41005;20UL) BTL# 2

ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860922 13:00

Compound	R.T.	Scan#	Area	Conc	Units	Q
1) *1,4-DICHLOROBENZENE-D4 (IS)	9.39	380	99482	40.00	ug/L	8
16) 2-FLUOROPHENOL (SS)	6.41	198	173089	136.52	ug/L	9
17) PHENOL-D5 (SS)	8.75	341	147638	100.89	ug/L	9
18) *NAPHTHALENE-D8 (IS)	12.97	599	317673	40.00	ug/L	100
32) NITROBENZENE-D5 (SS)	11.01	479	107143	91.50	ug/L	82
33) *ACENAPHTHENE-D10(IS)	18.36	928	122404	40.00	ug/L	95
48) DIETHYL PHTHALATE	20.12	1036	9695	7.60	ug/L	8
52) 2-FLUOROBIPHENYL (SS)	16.42	810	135046	78.63	ug/L	100
53) 2,4,6-TRIBROMOPHENOL (SS)	20.81	1078	18445	132.29	ug/L	100
54) *PHENANTHRENE-D10 (IS)	22.85	1203	130612	40.00	ug/L	10
64) *CHRYSENE-D12 (IS)	31.16	1711	28218	40.00	ug/L	10
72) TERPHENYL-D14 (SS)	28.04	1520	91731	122.25	ug/L	0
73) *PERYLENE-D12 (IS)	35.32	1965	37042	40.00	ug/L	0

* Compound is ISTD

7832



m/z = 51, 77, 141, 204 are from 4-chlorophenyl phenyl ether which is coeluting in the std mix and could not be subtracted

Laboratory Name CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

~~Case No~~ Client Envirresponse

2 2 0735

Sample Number 7333

013-09

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 9/18/86

Date Analyzed: 9/22/86 (A6080)

Conc/(Dil Factor): 1

Percent Moisture (Decanted) NA

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☒Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		(ug/l or ug/Kg) (Circle One)
62-75-9	N-Nitrosodimethylamine	11 N
108-95-2	Phenol	10 u
111-44-4	bis(-2-Chloroethyl)Ether	10 u
95-57-8	2-Chlorophenol	10 u
541-73-1	1, 3-Dichlorobenzene	10 u
106-46-7	1, 4-Dichlorobenzene	10 u
95-50-1	1, 2-Dichlorobenzene	10 u
39638-32-9	bis(2-chloroisopropyl)Ether	10 u
621-64-7	N-Nitroso-Di-n-Propylamine	10 u
67-72-1	Hexachloroethane	10 u
98-95-3	Nitrobenzene	10 u
78-59-1	Isophorone	10 u
88-75-5	2-Nitrophenol	10 u
105-67-9	2, 4-Dimethylphenol	10 u
111-91-1	bis(-2-Chloroethoxy)Methane	10 u
120-83-2	2, 4-Dichlorophenol	10 u
120-82-1	1 2, 4-Trichlorobenzene	10 u
91-20-3	Naphthalene	10 u
87-68-3	Hexachlorobutadiene	10 u
59-50-7	4-Chloro-3-Methylphenol	10 u
77-47-4	Hexachlorocyclopentadiene	10 u
88-06-2	2, 4 6-Trichlorophenol	10 u
91-58-7	2-Chloronaphthalene	10 u
131-11-3	Dimethyl Phthalate	10 u
208-96-8	Acenaphthylene	10 u

CAS Number		(ug/l or ug/Kg) (Circle One)
83-32-9	Acenaphthene	10 u
51-28-5	2, 4-Dinitrophenol	50 u
100-02-7	4-Nitrophenol	50 u
121-14-2	2, 4-Dinitrotoluene	10 u
606-20-2	2, 6-Dinitrotoluene	10 u
84-66-2	Diethylphthalate	6 J,B
7005-72-3	4-Chlorophenyl-phenylether	10 u
86-73-7	Fluorene	10 u
534-52-1	4, 6-Dinitro-2-Methylphenol	50 u
86-30-6	N-Nitrosodiphenylamine (1)	10 u
101-55-3	4-Bromophenyl-phenylether	10 u
118-74-1	Hexachlorobenzene	10 u
87-86-5	Pentachlorophenol	50 u
85-01-8	Phenanthrene	10 u
120-12-7	Anthracene	10 u
84-74-2	Di-n-Butylphthalate	1 J
206-44-0	Fluoranthene	10 u
92-87-5	Benzidine	160 N
129-00-0	Pyrene	10 u
85-68-7	Butylbenzylphthalate	10 u
91-94-1	3, 3'-Dichlorobenzidine	28 N
56-55-3	Benzo(a)Anthracene	10 u
117-81-7	bis(2-Ethylhexyl)Phthalate	10 u
218-01-9	Chrysene	10 u
117-84-0	Di-n-Octyl Phthalate	10 u
205-99-2	Benzo(b)Fluoranthene	11 N
207-08-9	Benzo(k)Fluoranthene	10 u
50-32-8	Benzo(a)Pyrene	10 u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	13 N
53-70-3	Dibenzo(a, h)Anthracene	16 N
191-24-2	Benzo(g, h, i)Perylene	17 N

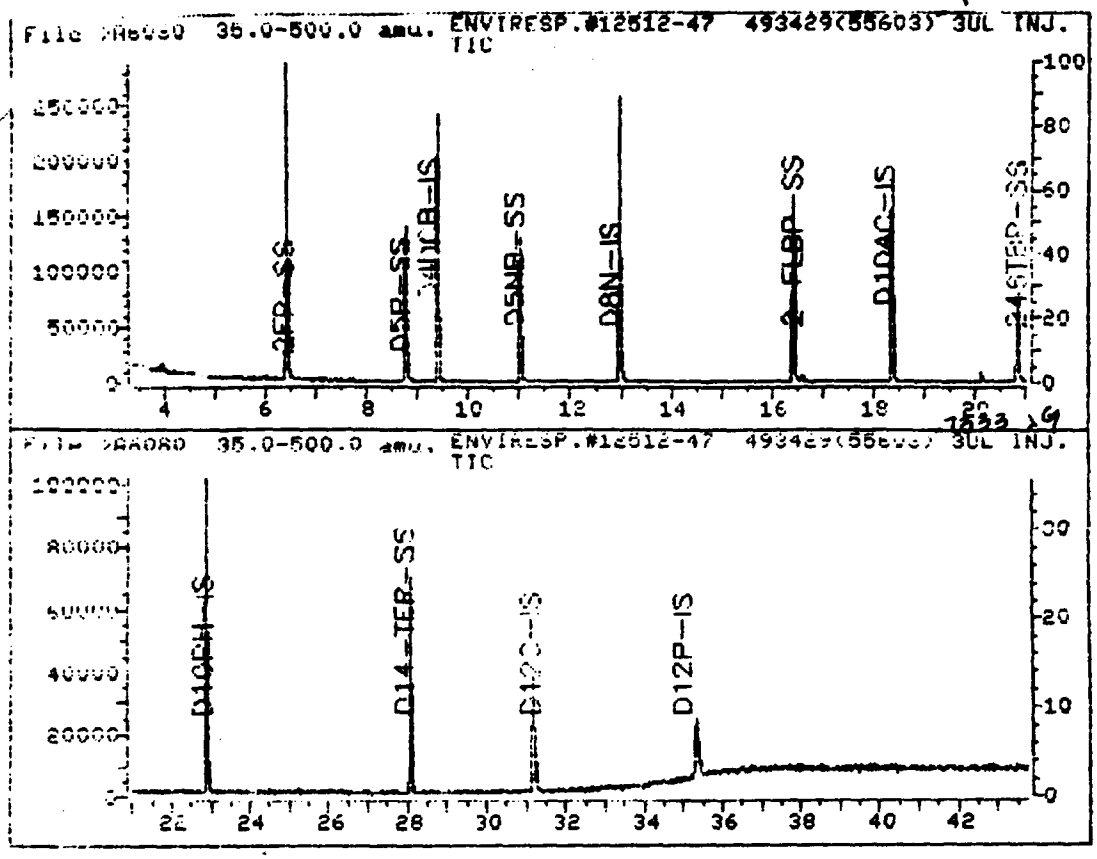
084

(1)-Cannot be separated from diphenylamine

Form I

2 2 0736
014-07

7333 >9



MS data file header from : >A6080

Sample: ENVIRESP.#12512-47 7333 >9 Operator: MIKE MS 9/22/86 16:24
Mass : 493429(556603) 3UL INJ. IS=40NG(#41005;20UL) BH # 3
Sys. #: 1A MS model: 02 SW/HW rev.: 1A ALS # : 0
Method file: BNAME1 Tuning file: BNAIU1 No. of extra records: 1
Source temp.: 275 Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	2.0	8.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

2 2 0737
015-01

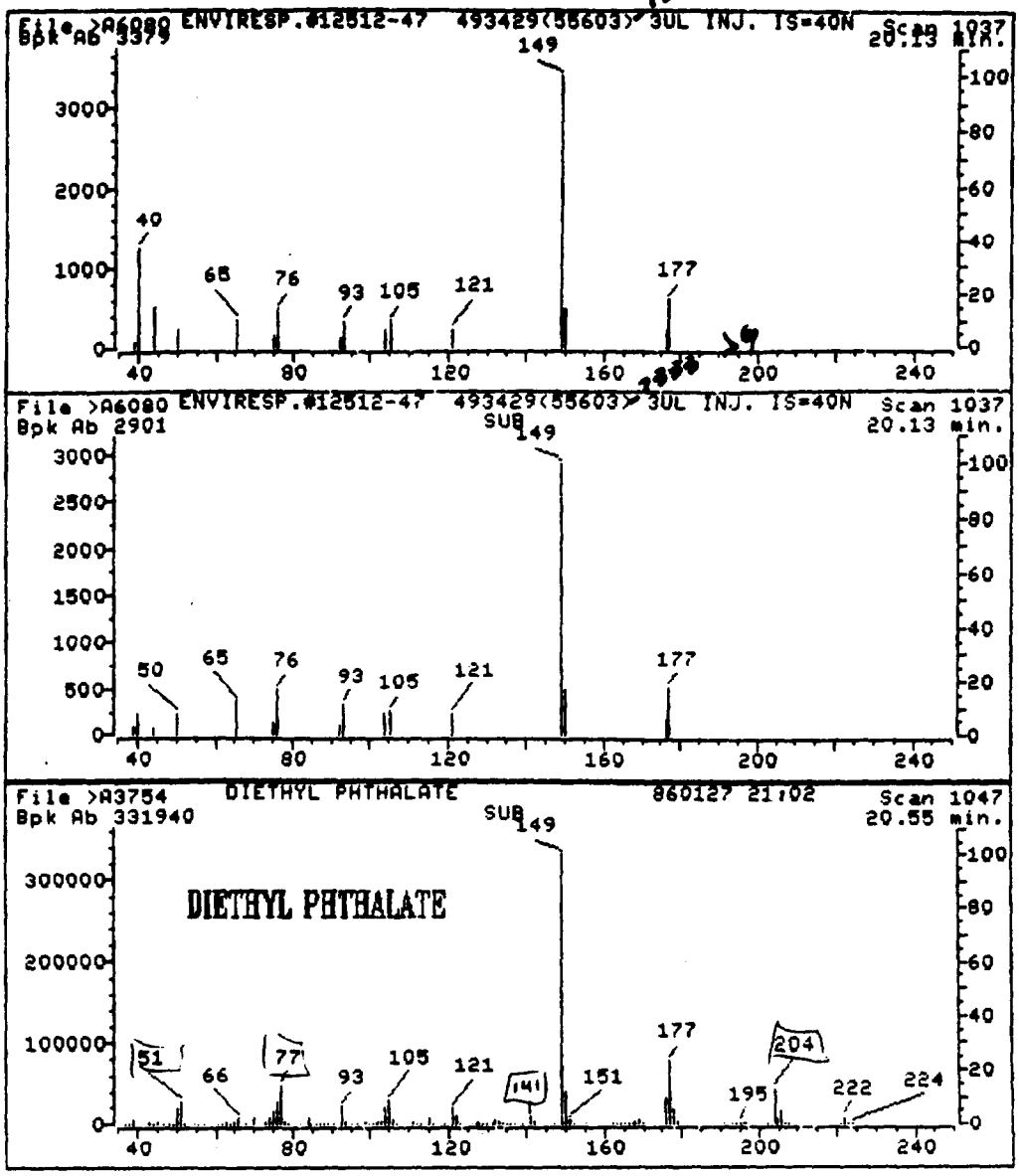
QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860922 17:10
Output File: ^A6080::AA Injected at: 860922 16:24
Data File: >A6080::DD Dilution Factor: 2.000
Name: ENVIRESP.#12512-47
Misc: 493429(55603) 30L INJ. IS=40NG(#41005;20UL) BTL# 3

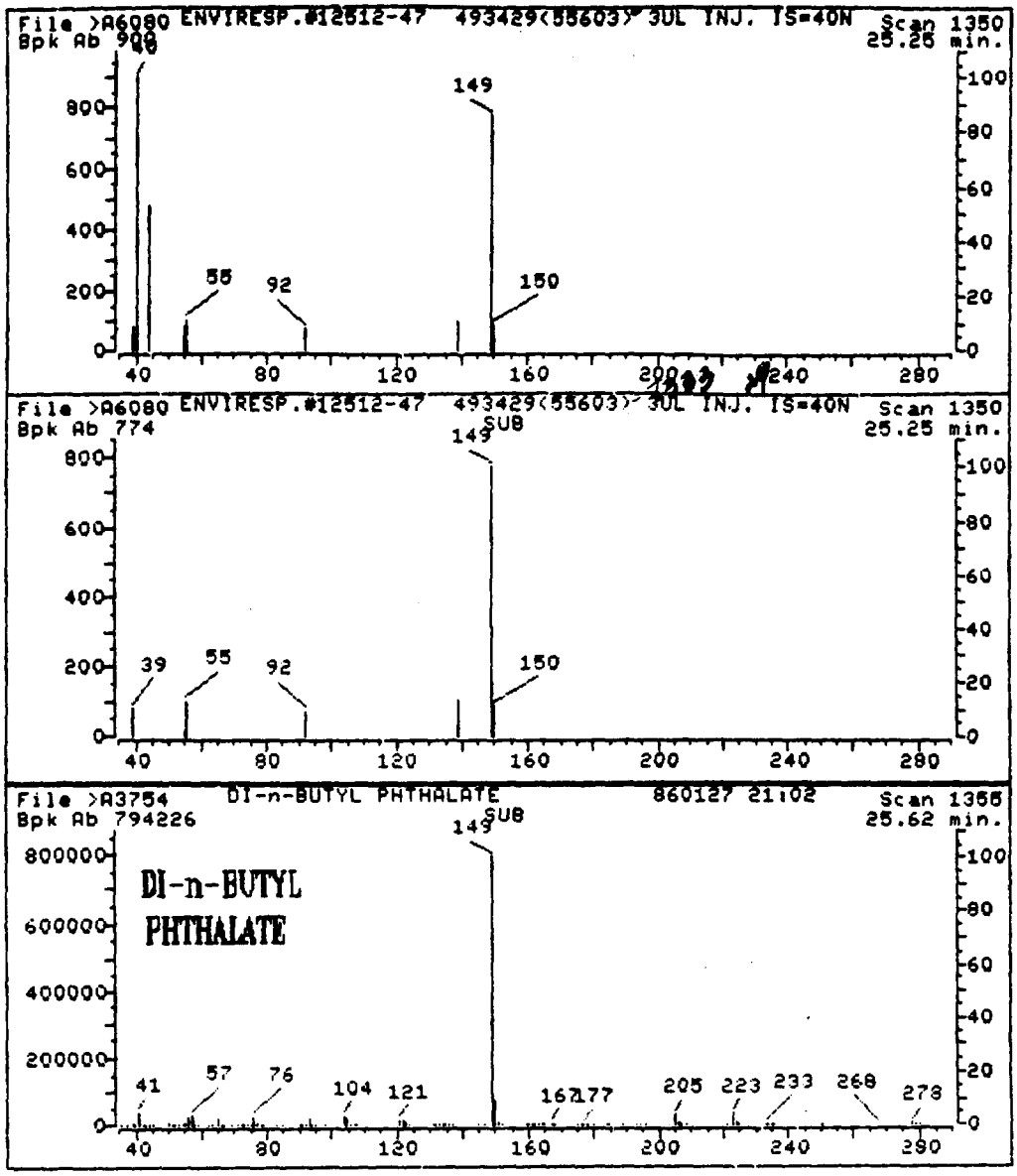
ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860922 13:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-D4 (IS)	9.40	381	90861	40.00	ug/L	81
16)	2-FLUOROPHENOL (SS)•	6.42	199	179646	116.65	ug/L	94
17)	PHENOL-D5 (SS)•	8.78	343	129740	72.99	ug/L	77
18)	*NAPHTHALENE-D8 (IS)	12.98	600	301248	40.00	ug/L	100
32)	NITROBENZENE-D5 (SS)•	11.02	480	118861	80.49	ug/L	81
33)	*ACENAPHTHENE-D10(IS)	18.36	929	119417	40.00	ug/L	95
48)	DIETHYL PHTHALATE	20.13	1037	9703	5.86	ug/L	86
52)	2-FLUOROBIPHENYL (SS)•	16.43	811	146617	65.80	ug/L	100
53)	2,4,6-TRIBROMOPHENOL (SS)•	20.81	1079	29235	161.60	ug/L	100
54)	*PHENANTHRENE-D10 (IS)	22.86	1204	129869	40.00	ug/L	100
62)	DI-n-BUTYL PHTHALATE	25.25	1350	2029	1.15	ug/L	100
64)	*CHRYSENE-D12 (IS)	31.15	1711	20491	40.00	ug/L	100
72)	TERPHENYL-D14 (SS)•	28.04	1521	35098	117.36	ug/L	100
73)	*PERYLENE-D12 (IS)	35.32	1966	26793	40.00	ug/L	100

* Compound is ISTD



m/z = 51, 77, 141, 204 are from 4-chlorophenyl phenyl ether which is coelut in the STD mix and could not be subtracted away


File >A6080 ENVIRESP.#12512-47 493429(55603) 30L INJ. IS=40N Scan 1350
Bpk Ab 900 25.25 min.
149
55
92
150
File >A6080 ENVIRESP.#12512-47 493429(55603) 30L INJ. IS=40N Scan 1350
Bpk Ab 774 25.25 min.
149 SUB
39
55
92
150
File >A3754 DI-n-BUTYL PHTHALATE 860127 21:02 Scan 1355
Bpk Ab 794226 25.62 min.
149 SUB
DI-n-BUTYL
PHTHALATE
41
57
76
104
121
167
177
205
223
233
268
278

Laboratory Name: CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

client ~~Case No~~: Enviresponse

Sample Number: 7334

013-12

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9-18-86

Date Analyzed: 9-23-86 (A6092)

Conc/Dil Factor: 50

Percent Moisture (Decanted) NA

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☑Yes

Continuous Liquid - Liquid Extraction ☐Yes

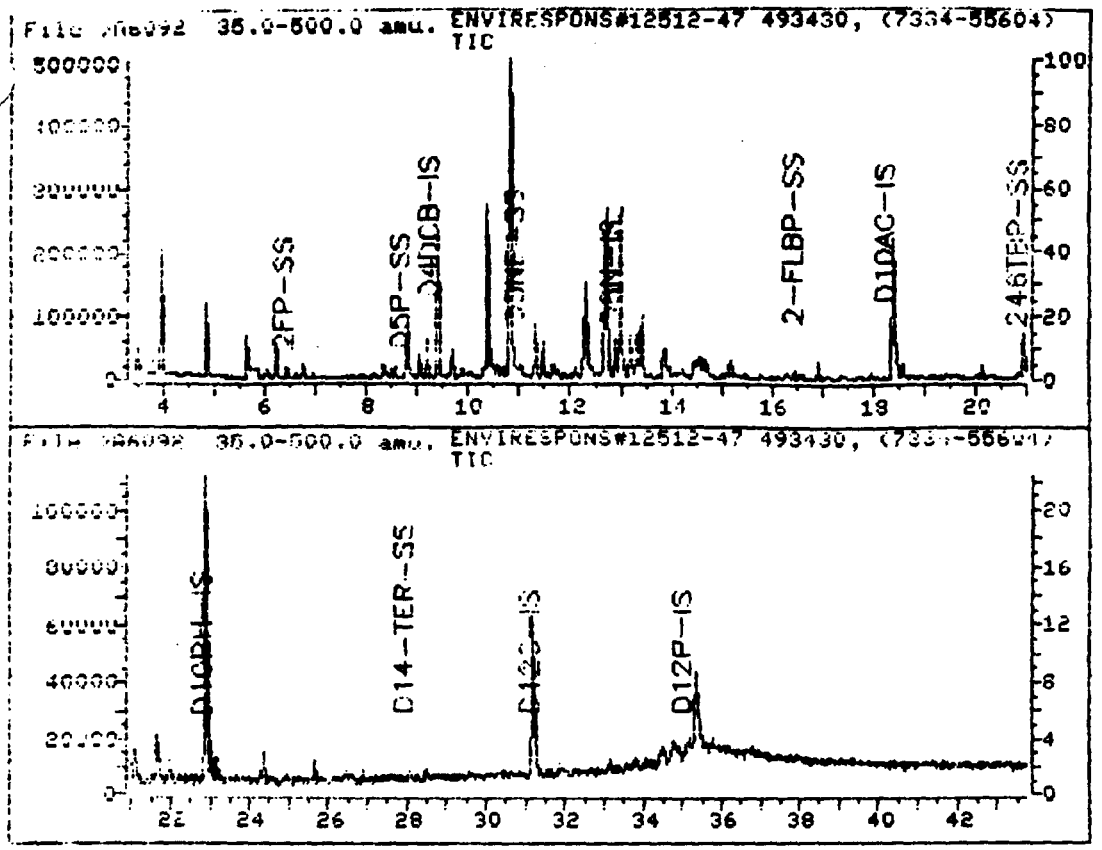
CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	650 N
108-95-2	Phenol	1900
111-44-4	bis(-2-Chloroethyl)Ether	590 U
95-57-8	2-Chlorophenol	590 U
541-73-1	1, 3-Dichlorobenzene	590 U
106-46-7	1, 4-Dichlorobenzene	590 U
95-50-1	1, 2-Dichlorobenzene	590 U
39638-32-9	bis(2-chloroisopropyl)Ether	590 U
621-64-7	N-Nitroso-Di-n-Propylamine	590 U
67-72-1	Hexachloroethane	590 U
98-95-3	Nitrobenzene	590 U
78-59-1	Isophorone	590 U
88-75-5	2-Nitrophenol	590 U
105-67-9	2, 4-Dimethylphenol	4900
111-91-1	bis(-2-Chloroethoxy)Methane	590 U
120-83-2	2, 4-Dichlorophenol	590 U
120-82-1	1, 2, 4-Trichlorobenzene	590 U
91-20-3	Naphthalene	150 J
87-68-3	Hexachlorobutadiene	590 U
59-50-7	4-Chloro-3-Methylphenol	160 J
77-47-4	Hexachlorocyclopentadiene	590 U
88-06-2	2, 4, 6-Trichlorophenol	590 U
91-58-7	2-Chloronaphthalene	590 U
131-11-3	Dimethyl Phthalate	590 U
208-96-8	Acenaphthylene	590 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	590 U
51-28-5	2, 4-Dinitrophenol	2900 U
100-02-7	4-Nitrophenol	2900 U
121-14-2	2, 4-Dinitrotoluene	590 U
606-20-2	2, 6-Dinitrotoluene	590 U
84-66-2	Diethylphthalate	590 U
7005-72-3	4-Chlorophenyl-phenylether	590 U
86-73-7	Fluorene	590 U
534-52-1	4, 6-Dinitro-2-Methylphenol	2900 U
86-30-6	N-Nitrosodiphenylamine (1)	590 U
101-55-3	4-Bromophenyl-phenylether	590 U
118-74-1	Hexachlorobenzene	590 U
87-86-5	Pentachlorophenol	2900 U
85-01-8	Phenanthrene	590 U
120-12-7	Anthracene	590 U
84-74-2	Di-n-Butylphthalate	590 U
206-44-0	Fluoranthene	590 U
92-87-5	Benzidine	9400 N
129-00-0	Pyrene	590 U
85-68-7	Butylbenzylphthalate	590 U
91-94-1	3, 3'-Dichlorobenzidine	1600 N
56-55-3	Benzo(a)Anthracene	590 U
117-81-7	bis(2-Ethylhexyl)Phthalate	180 J
218-01-9	Chrysene	590 U
117-84-0	Di-n-Octyl Phthalate	590 U
205-99-2	Benzo(b)Fluoranthene	650 N
207-08-9	Benzo(k)Fluoranthene	590 U
50-32-8	Benzo(a)Pyrene	590 U
193-39-5	Indeno(1, 2, 3-cd)Pyrene	760 N
53-70-3	Dibenz(a, h)Anthracene	940 N
191-24-2	Benzo(g, h, i)Perylene	1000 N

(1)-Cannot be separated from diphenylamine

Form I

2 2 0741
014-09



MS data file header from : >A6092

Sample: ENVIRESPONS#12512-47 Operator: MIKE MS 9/23/96 9:4..
Mass : 493430, (7334-55604) IS=40NG(20UL#41005) Dil 1:50 BTL# 7
Sys. #: 1A MS model: 87 SW/HW rev.: 1A ALS # : 0
Method file: BNAME1 Tuning file: BNATU1 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	2.0	8.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

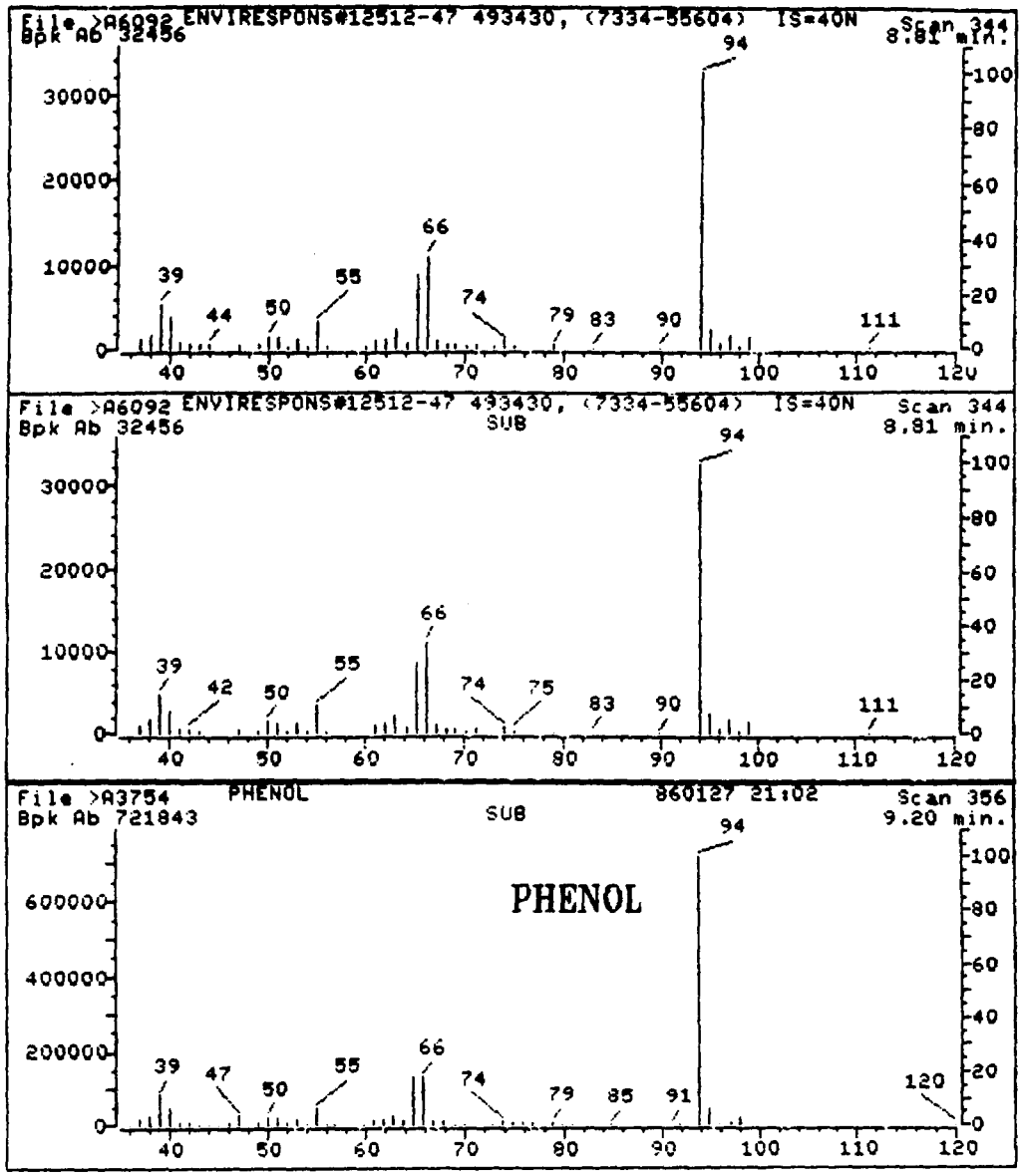
015-09

QUANT REPORT

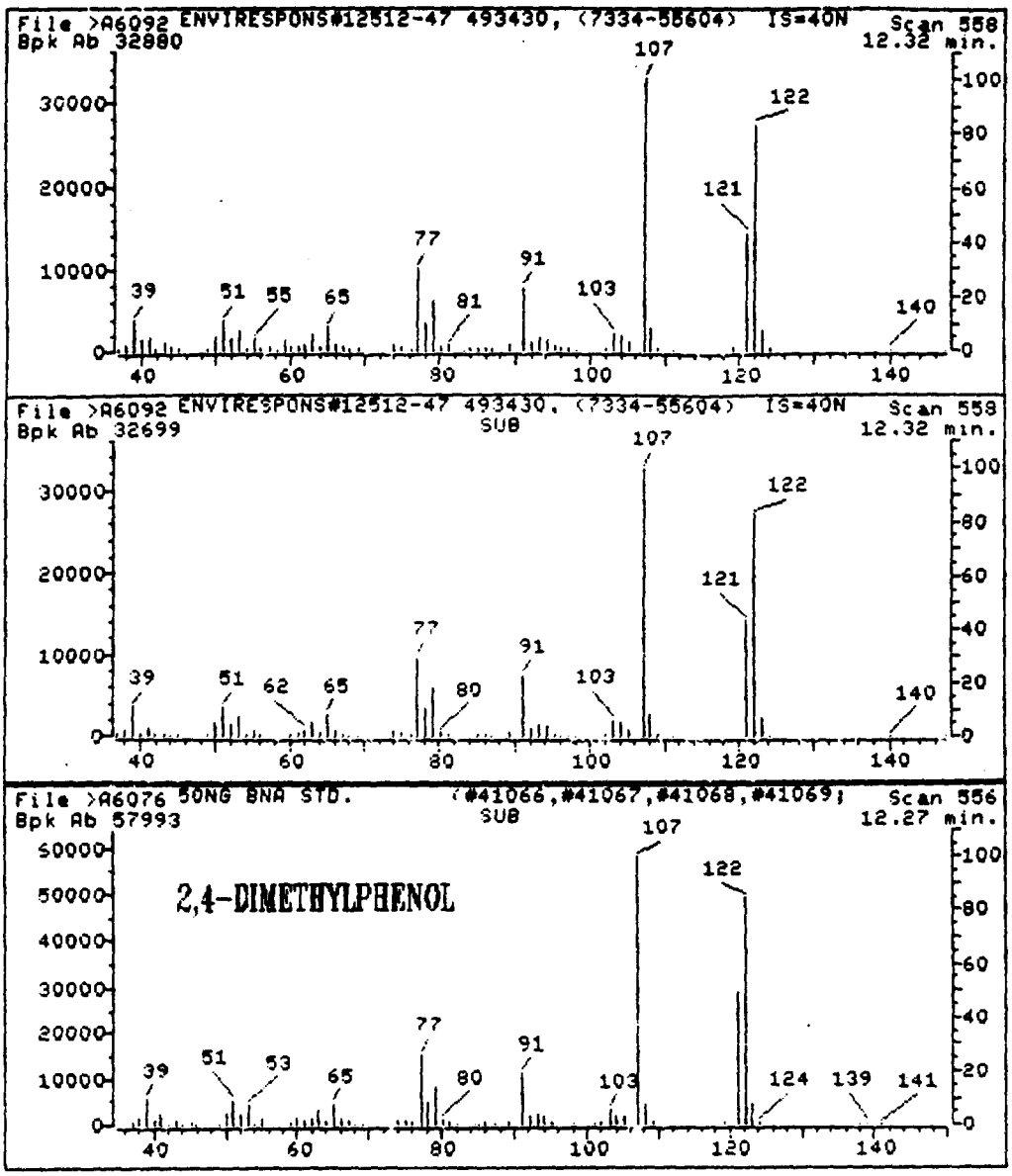
Operator ID: MIKE Quant Rev: 4 Quant Time: 860923 06:30
Output File: ^A6092::AQ Injected at: 860923 05:44
Data File: >A6092::DD Dilution Factor: 117.500
Name: ENVIRESPONS#12512-47
Misc: 493430, (7334-55604) IS=40NG(20UL#41005) BTL# 7
DIL 1:50
ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860922 22:34

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-D4 (IS)	9.40	380	98362	40.00	ug/L	83
3)	PHENOL	8.81	344	72403	1943.85	ug/L	76
16)	2-FLUOROPHENOL (SS)	6.43	199	11601	383.25	ug/L	99
17)	PHENOL-D5 (SS)	8.79	343	10873	301.35	ug/L	86
18)	*NAPHTHALENE-D8 (IS)	13.00	600	346611	40.00	ug/L	100
22)	2,4-DIMETHYLPHENOL	12.32	558	101362	4889.03	ug/L	90
27)	NAPHTHALENE	13.05	603	11756	145.54	ug/L	89
30)	4-CHLORO-3-METHYLPHENOL	15.00	722	3258	162.49	ug/L	69
33)	*ACENAPHTHENE-D10(IS)	18.38	928	136170	40.00	ug/L	97
52)	2-FLUOROBIPHENYL (SS)	16.45	810	10324	235.67	ug/L	100
54)	*PHENANTHRENE-D10 (IS)	22.88	1203	136727	40.00	ug/L	100
64)	*CHRYSENE-D12 (IS)	31.19	1710	29576	40.00	ug/L	100
70)	BIS(2-ETHYLHEXYL) PHTHALATE	31.86	1751	2238	179.96	ug/L	78
72)	TERPHENYL-D14 (SS)	28.06	1519	3895	231.70	ug/L	100
73)	*PERYLENE-D12 (IS)	35.34	1963	37918	40.00	ug/L	100

* Compound is ISTD

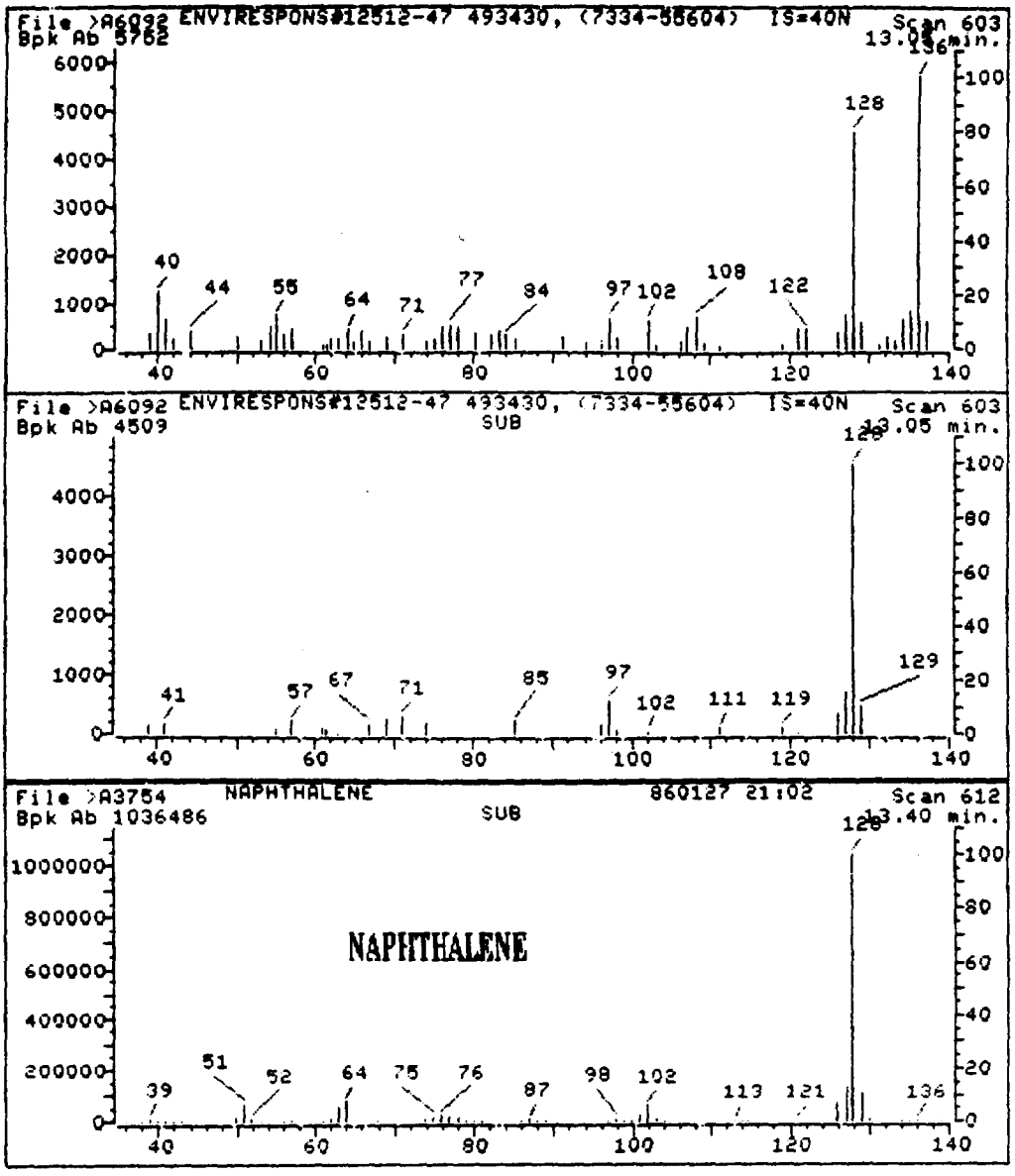

File >A6092 ENVIRESPONS#12512-47 493430, (7334-55604) IS=40N Scan 344
Bpk Ab 32456 8.81 min.
File >A6092 ENVIRESPONS#12512-47 493430, (7334-55604) IS=40N Scan 344
Bpk Ab 32456 SUB 8.81 min.
File >A3754 PHENOL 860127 21:02 Scan 356
Bpk Ab 721843 SUB 9.20 min.
PHENOL

·016-18

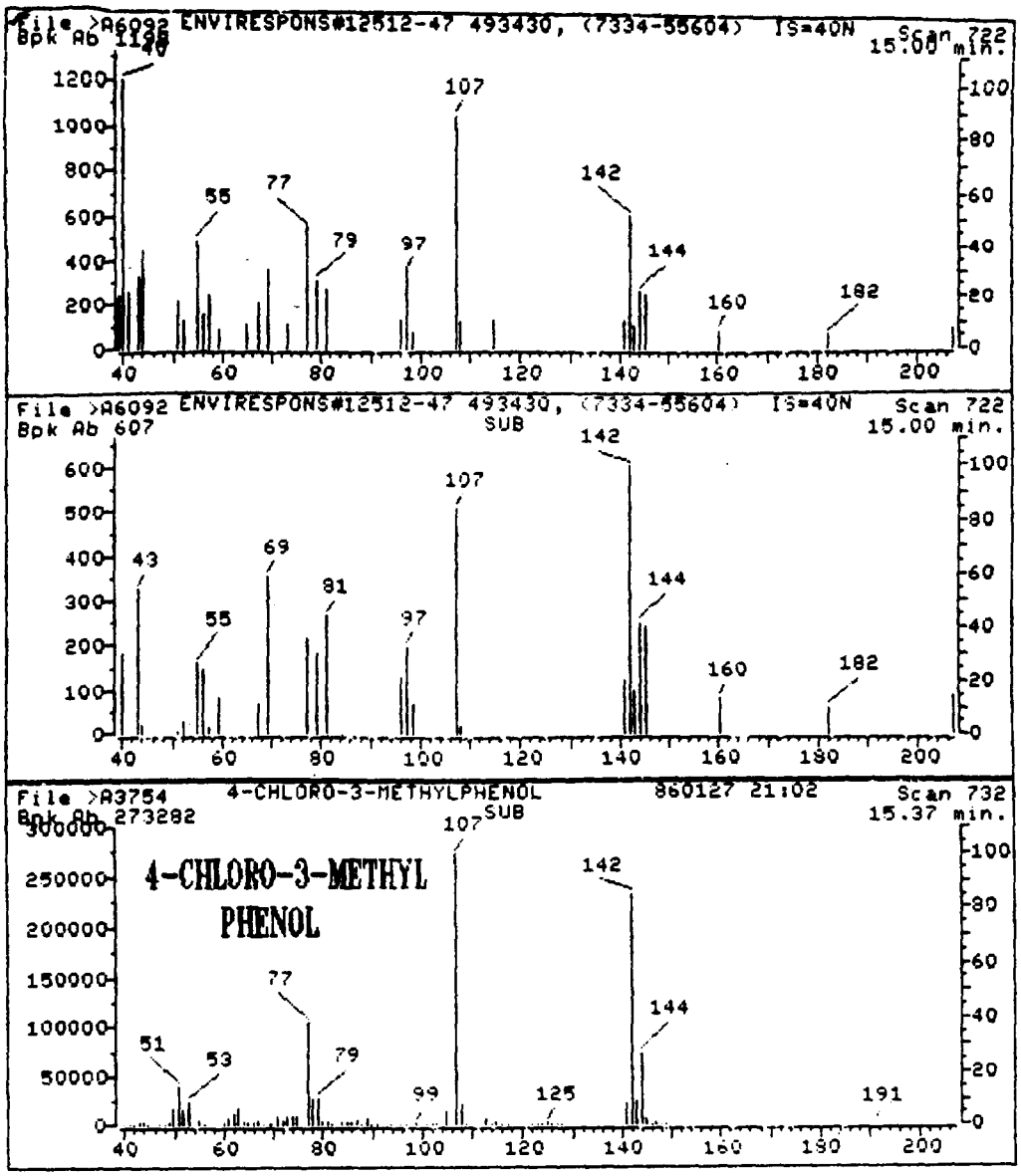

File >A6092 ENVIRESPONS#12512-47 493430, (7334-55604) IS=40N
Scan 558
Bpk Ab 32880
12.32 min.
File >A6092 ENVIRESPONS#12512-47 493430, (7334-55604) IS=40N
SUB
Scan 558
Bpk Ab 32699
12.32 min.
File >A6076 50NG BNA STD. (#41066,#41067,#41068,#41069)
SUB
Scan 556
Bpk Ab 57993
12.27 min.
2,4-DIMETHYLPHENOL

1of1

016-19

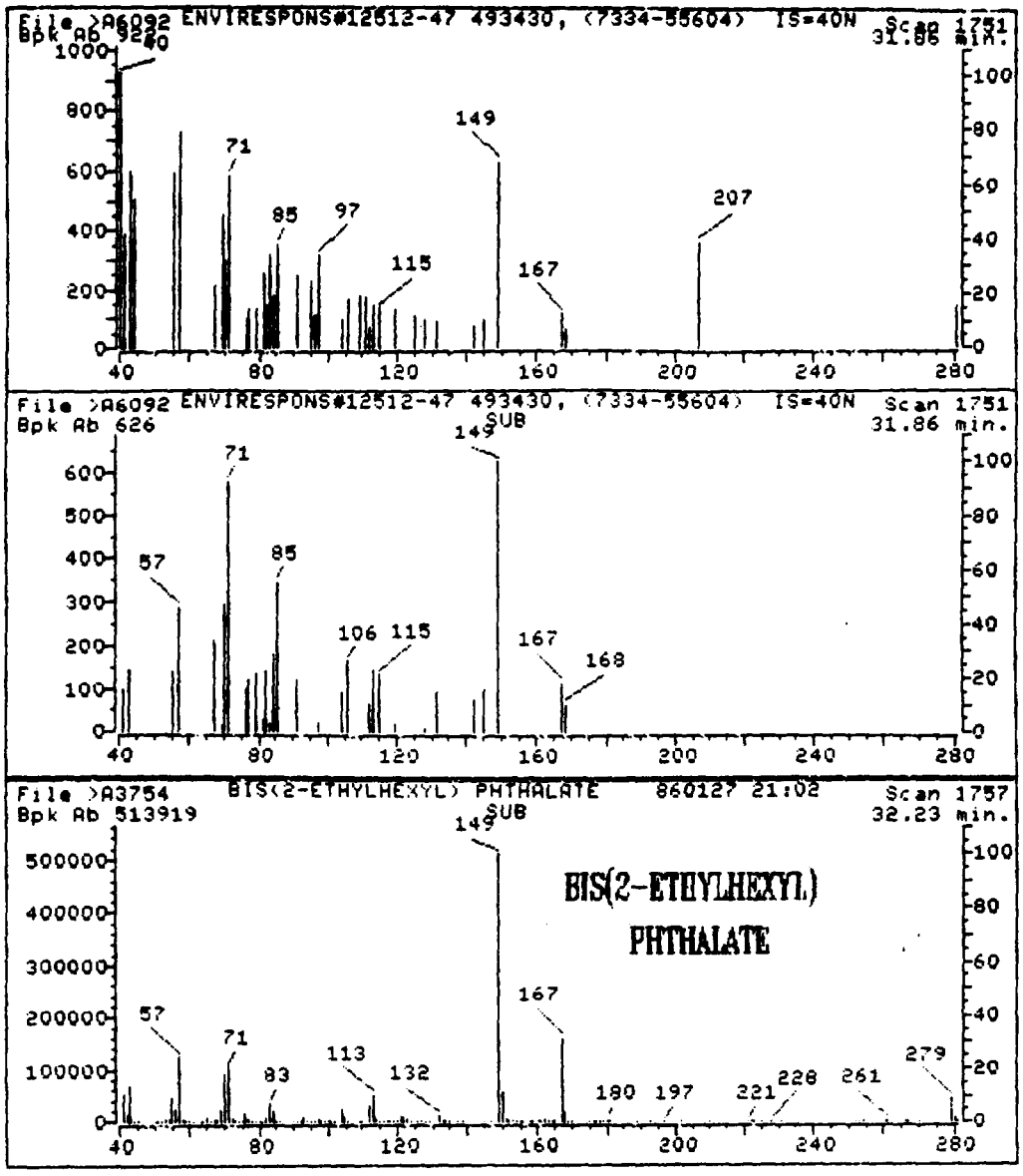

File >A6092 ENVIRESPONS#12512-47 493430, (7334-55604) IS=40N Scan 603
Bpk Ab 5762
13.08 min.
File >A6092 ENVIRESPONS#12512-47 493430, (7334-55604) IS=40N Scan 603
Bpk Ab 4509
SUB
13.05 min.
File >A3754 NAPHTHALENE 860127 21:02 Scan 612
Bpk Ab 1036486
SUB
13.40 min.
NAPHTHALENE

016-20



level below CRSL. Many extraneous ions present

1DPS


File >A6092 ENVIRESPONS#12512-47 493430, (7334-55604) IS=40N Scan 1751
Bpk Ab 922 31.86 min.
File >A6092 ENVIRESPONS#12512-47 493430, (7334-55604) IS=40N Scan 1751
Bpk Ab 626 SUB 31.86 min.
File >A3754 BIS(2-ETHYLHEXYL) PHTHALATE 860127 21:02 Scan 1757
Bpk Ab 513919 SUB 32.23 min.
BIS(2-ETHYLHEXYL)
PHTHALATE

2.2 0748

Laboratory Name: Clayton Environmental
Client: Envirresponse
~~Case No~~:

Sample Number
7334(oil)

013-15

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 9/29/86
Date Analyzed: 9/29/86 (A6168)
Conc/Dil Factor: 10
Percent Moisture (Decanted) NA

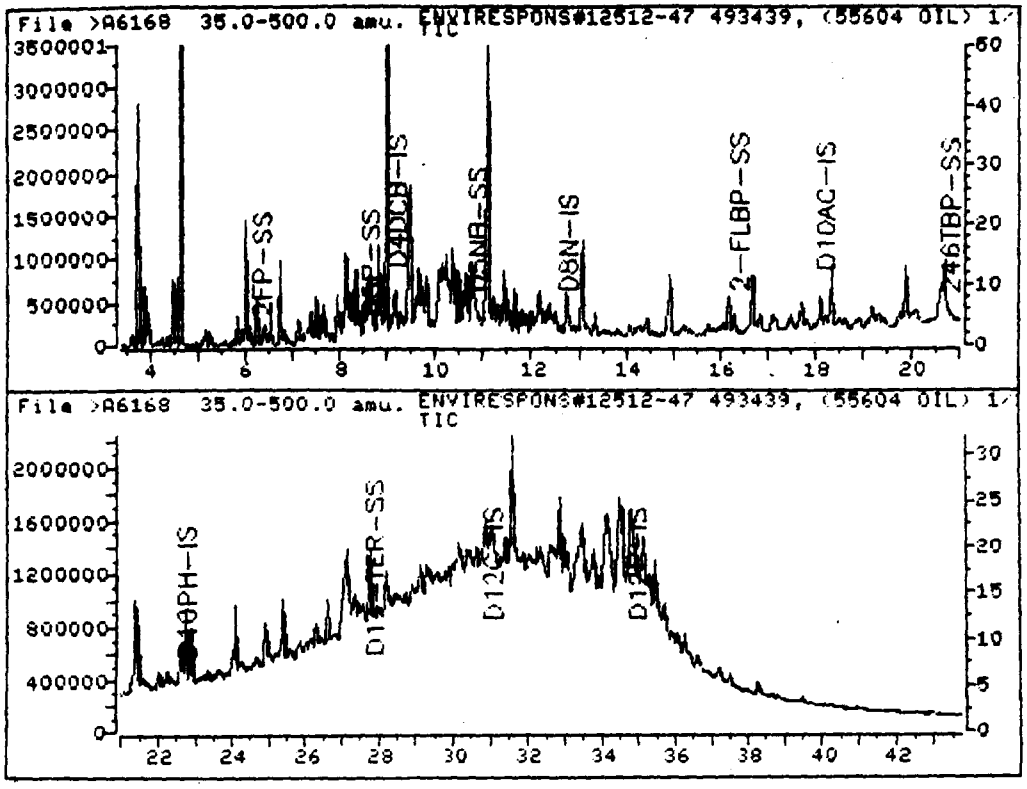
GPC Cleanup ☐Yes ☒No
Separatory Funnel Extraction ☐Yes
Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	120000N
108-95-2	Phenol	110000 u
111-44-4	bis(-2-Chloroethyl)Ether	110000 u
95-57-8	2-Chlorophenol	110000 u
541-73-1	1, 3-Dichlorobenzene	110000 u
106-46-7	1, 4-Dichlorobenzene	110000 u
95-50-1	1, 2-Dichlorobenzene	110000 u
39638-32-9	bis(2-chloroisopropyl)Ether	110000 u
621-64-7	N-Nitroso-Di-n-Propylamine	110000 u
67-72-1	Hexachloroethane	110000 u
98-95-3	Nitrobenzene	110000 u
78-59-1	Isophorone	110000 u
88-75-5	2-Nitrophenol	110000 u
105-67-9	2, 4-Dimethylphenol	150000
111-91-1	bis(-2-Chloroethoxy)Methane	110000 u
120-83-2	2, 4-Dichlorophenol	110000 u
120-82-1	1 2, 4-Trichlorobenzene	110000 u
91-20-3	Naphthalene	150000
87-68-3	Hexachlorobutadiene	20000J
59-50-7	4-Chloro-3-Methylphenol	110000 u
77-47-4	Hexachlorocyclopentadiene	110000 u
88-06-2	2, 4 6-Trichlorophenol	110000 u
91-58-7	2-Chloronaphthalene	110000 u
131-11-3	Dimethyl Phthalate	110000 u
208-96-8	Acenaphthylene	110000 u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	110000 u
51-28-5	2, 4-Dinitrophenol	560000 u
100-02-7	4-Nitrophenol	560000 u
121-14-2	2, 4-Dinitrotoluene	110000 u
606-20-2	2, 6-Dinitrotoluene	110000 u
84-66-2	Diethylphthalate	110000 u
7005-72-3	4-Chlorophenyl-phenylether	110000 u
86-73-7	Fluorene	24000J
534-52-1	4, 6-Dinitro-2-Methylphenol	560000 u
86-30-6	N-Nitrosodiphenylamine (1)	110000 u
101-55-3	4-Bromophenyl-phenylether	110000 u
118-74-1	Hexachlorobenzene	110000 u
87-86-5	Pentachlorophenol	560000 u
85-01-8	Phenanthrene	92000J
120-12-7	Anthracene	11000J
84-74-2	Di-n-Butylphthalate	110000 u
206-44-0	Fluoranthene	18000J
92-87-5	Benzidine	1800000N
129-00-0	Pyrene	18000J
85-68-7	Butylbenzylphthalate	27000J
91-94-1	3, 3'-Dichlorobenzidine	310000N
56-55-3	Benzo(a)Anthracene	110000 u
117-81-7	bis(2-Ethylhexyl)Phthalate	410000
218-01-9	Chrysene	110000 u
117-84-0	Di-n-Octyl Phthalate	110000 u
205-99-2	Benzo(b)Fluoranthene	120000N
207-08-9	Benzo(k)Fluoranthene	110000 u
50-32-8	Benzo(a)Pyrene	110000 u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	150000N
53-70-3	Dibenz(a, h)Anthracene	180000N
191-24-2	Benzo(g, h, i)Perylene	190000N

(1)-Cannot be separated from diphenylamine

014.11



MS data file header from : >A6168

Sample: ENVIRESPONS#12512-47 134 Operator: MIKE MS 9/29/86 16:54
Misc : 493439, (55604 OIL) 1/10 OIL. IS=40NG(20UL#41005)
Sys. #: 14 MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: BNAME1 Tuning file: BNATU1 No. of extra records: 1
Source temp.: 225 Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	2.0	8.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

015-11

QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 861002 10:40
Output File: ^A6168::AQ Injected at: 860929 16:54
Data File: >A6168::AA Dilution Factor: 1.124 *
Name: ENVIRESPONS#12512-47 7334
Misc: 493439, (55604 OIL) 1/10 DIL. IS=40NG(20UL#41005)

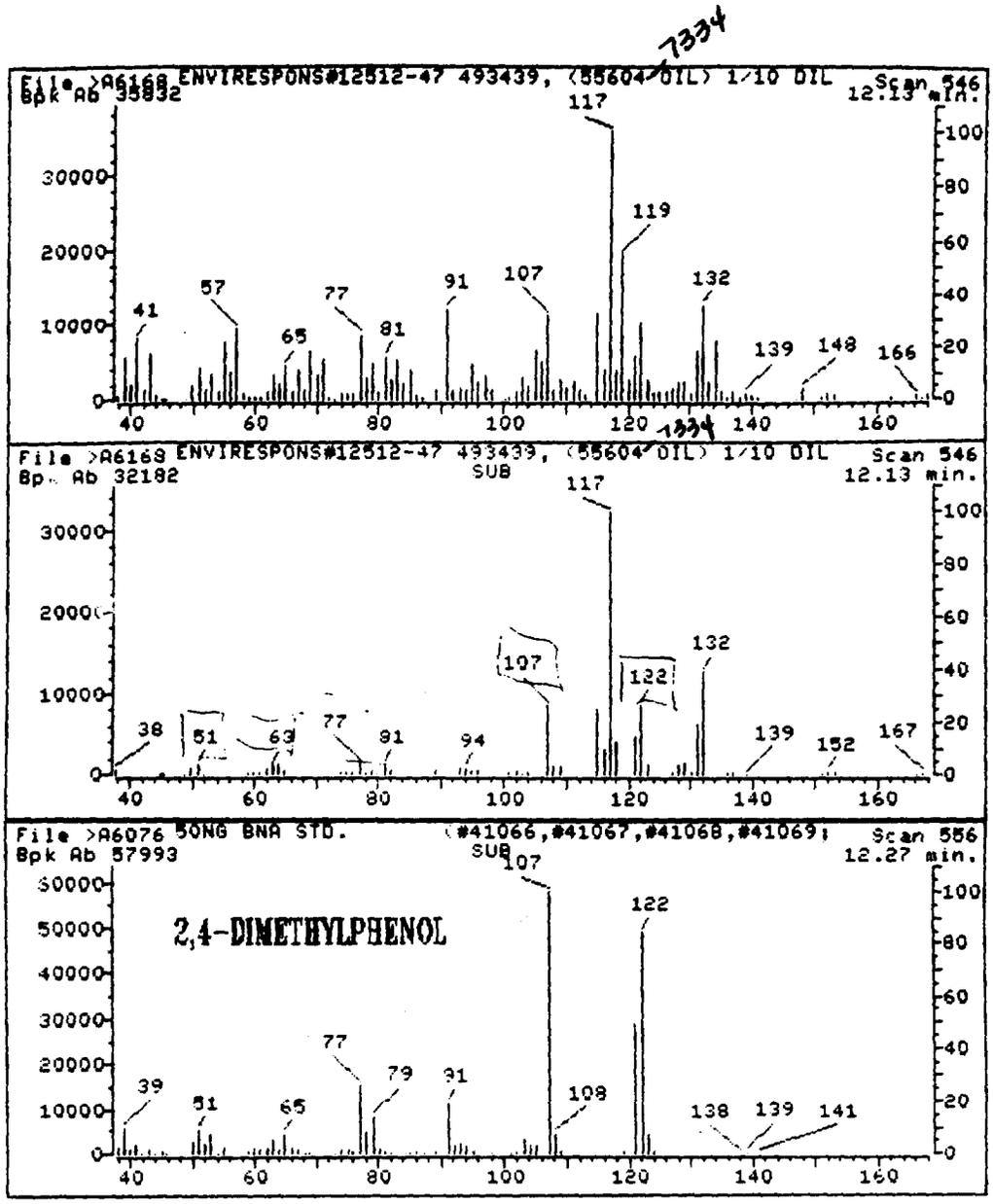
ID File: BNSID1::D1
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 861002 09:14

	Compound	R.T.	Scan#	Area	Conc	Units	q	x 10000 ** µg/kg
1)	*1,4-DICHLOROBENZENE-D4 (IS)	9.19	367	191137	40.00	ug/Kg	82	
16)	2-FLUOROPHENOL (SS)	6.25	188	469821	78.01	ug/Kg	100	
17)	PHENOL-D5 (SS)	8.63	333	589580	79.79	ug/Kg	100	
18)	*NAPHTHALENE-D8 (IS)	12.74	583	689807	40.00	ug/Kg	100	
22)	2,4-DIMETHYLPHENOL	12.13	546	63876	14.85	ug/Kg	91	148500
27)	NAPHTHALENE	12.79	586	231384	14.73	ug/Kg	93	147300
29)	HEXACHLOROBUTADIENE	13.45	626	4235	2.01	ug/Kg	82	20100
32)	NITROBENZENE-D5 (SS)	10.78	464	286938	48.34	ug/Kg	83	~~22390~~
33)	*ACENAPHTHENE-D10(IS)	18.10	908	341542	40.00	ug/Kg	96	
50)	FLUORENE	19.75	1008	22555	2.44	ug/Kg	99	24400
52)	2-FLUOROBIPHENYL (SS)	16.18	792	433045	39.35	ug/Kg	100	
53)	2,4,6-TRIBROMOPHENOL (SS)	20.59	1059	101192	83.21	ug/Kg	100	
54)	*PHENANTHRENE-D10 (IS)	22.60	1180	499055	40.00	ug/Kg	100	
60)	PHENANTHRENE	22.67	1184	100456	9.19	ug/Kg	100	91900
61)	ANTHRACENE	22.80	1192	14355	1.14	ug/Kg	100	11400
63)	FLUORANTHENE	26.35	1406	17074	1.84	ug/Kg	77	18400
64)	*CHRYSENE-D12 (IS)	30.89	1678	215027	40.00	ug/Kg	100	
66)	PYRENE	27.02	1446	26564	1.77	ug/Kg	100	17700
67)	BUTYLBENZYL PHTHALATE	29.59	1600	19209	2.72	ug/Kg	67	27200
70)	BIS(2-ETHYLHEXYL) PHTHALATE	31.59	1720	412674	40.89	ug/Kg	100	408900
72)	TERPHENYL-D14 (SS)	27.78	1492	464290	38.43	ug/Kg	100	
73)	*PERYLENE-D12 (IS)	35.04	1926	154034	40.00	ug/Kg	100	

* Compound is ISTD

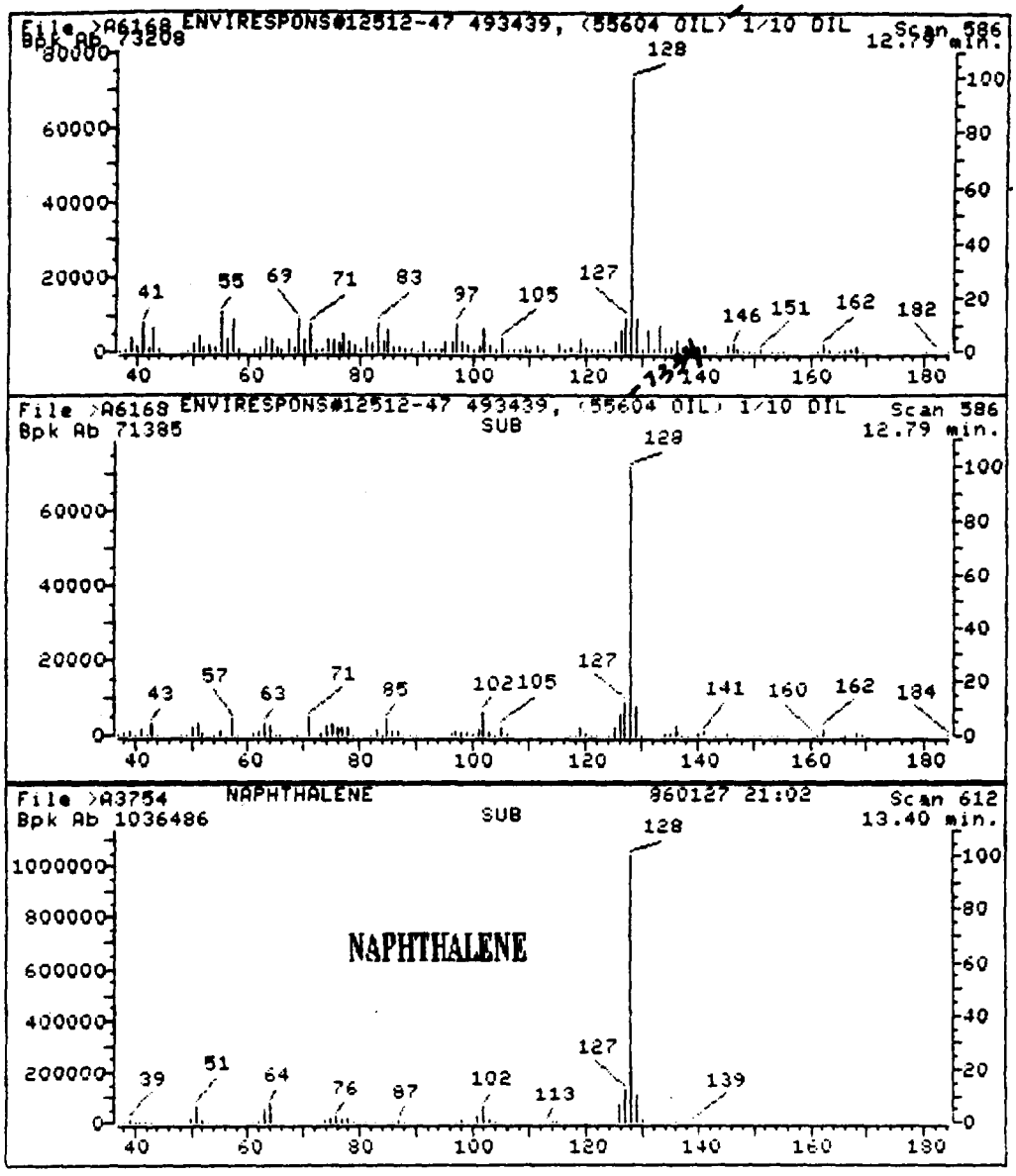
* Based on an oil density of 0.890 g/mL.

** Calculation used to account for a 1/10 dilution on 1 mL of sample (oil).



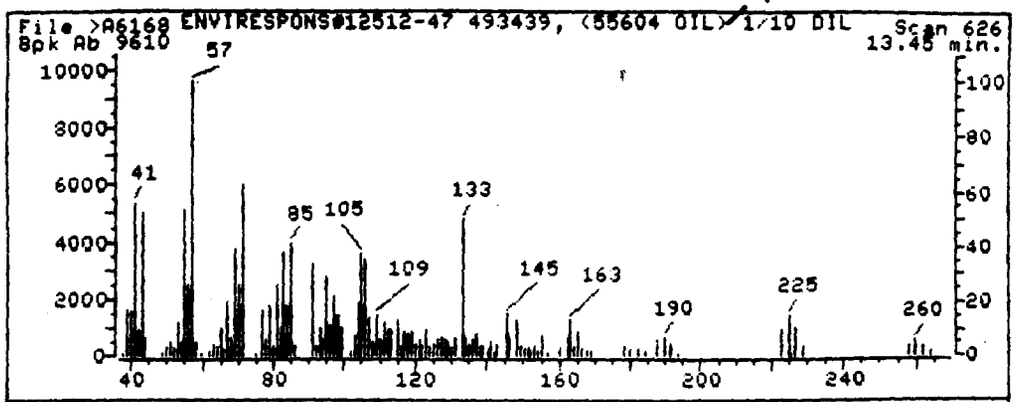
2,4-dimethylphenol may be present at just above CRDL. Another compound is coeluting and which makes interp. difficult

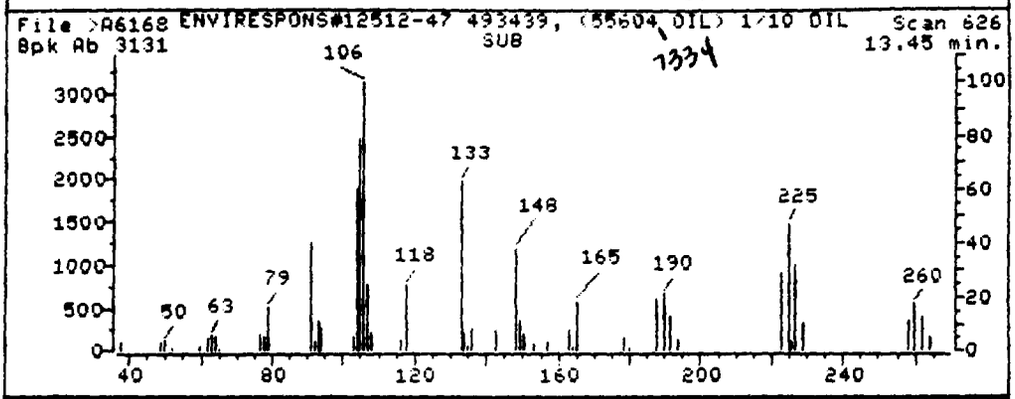
7334


File >A6168 ENVIRESPONS#12512-47 493439, (55604 OIL) 1/10 DIL
Scan 586
Bpk Ab 73208
12.79 min.
128
41 55 69 71 83 97 105 127 146 151 162 182
File >A6168 ENVIRESPONS#12512-47 493439, (55604 OIL) 1/10 DIL
Scan 586
Bpk Ab 71385
SUB
12.79 min.
128
43 57 63 71 85 102105 127 141 160 162 184
File >A3754 NAPHTHALENE
860127 21:02
Scan 612
Bpk Ab 1036486
SUB
13.40 min.
128
NAPHTHALENE
39 51 64 76 87 102 113 127 139

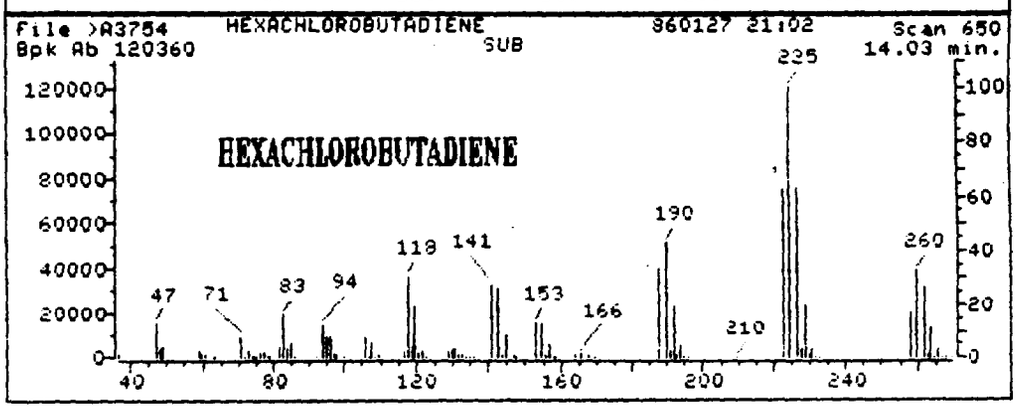
016-33

7334



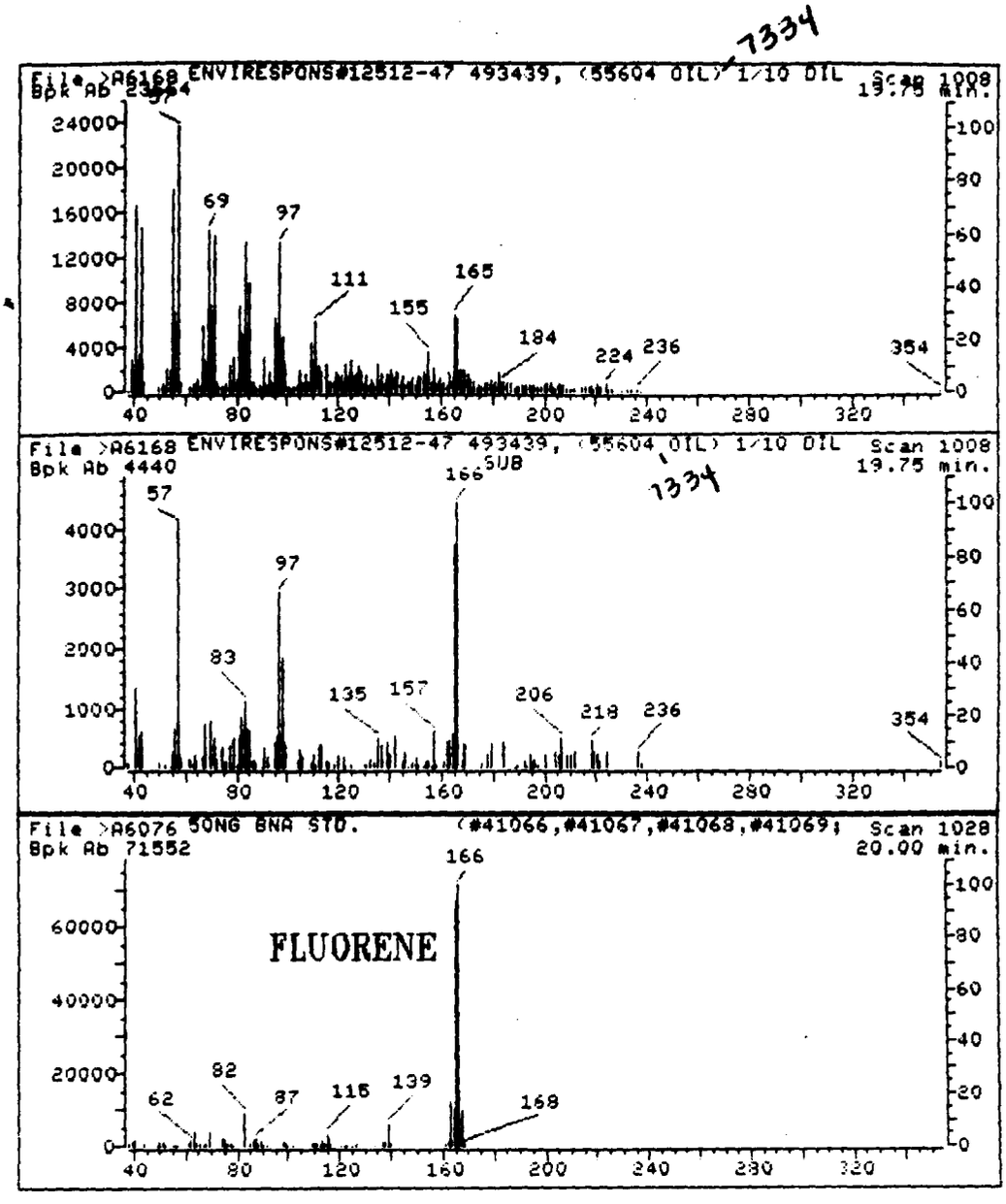


some ions may have been lost in the background subtraction



2 2 0754

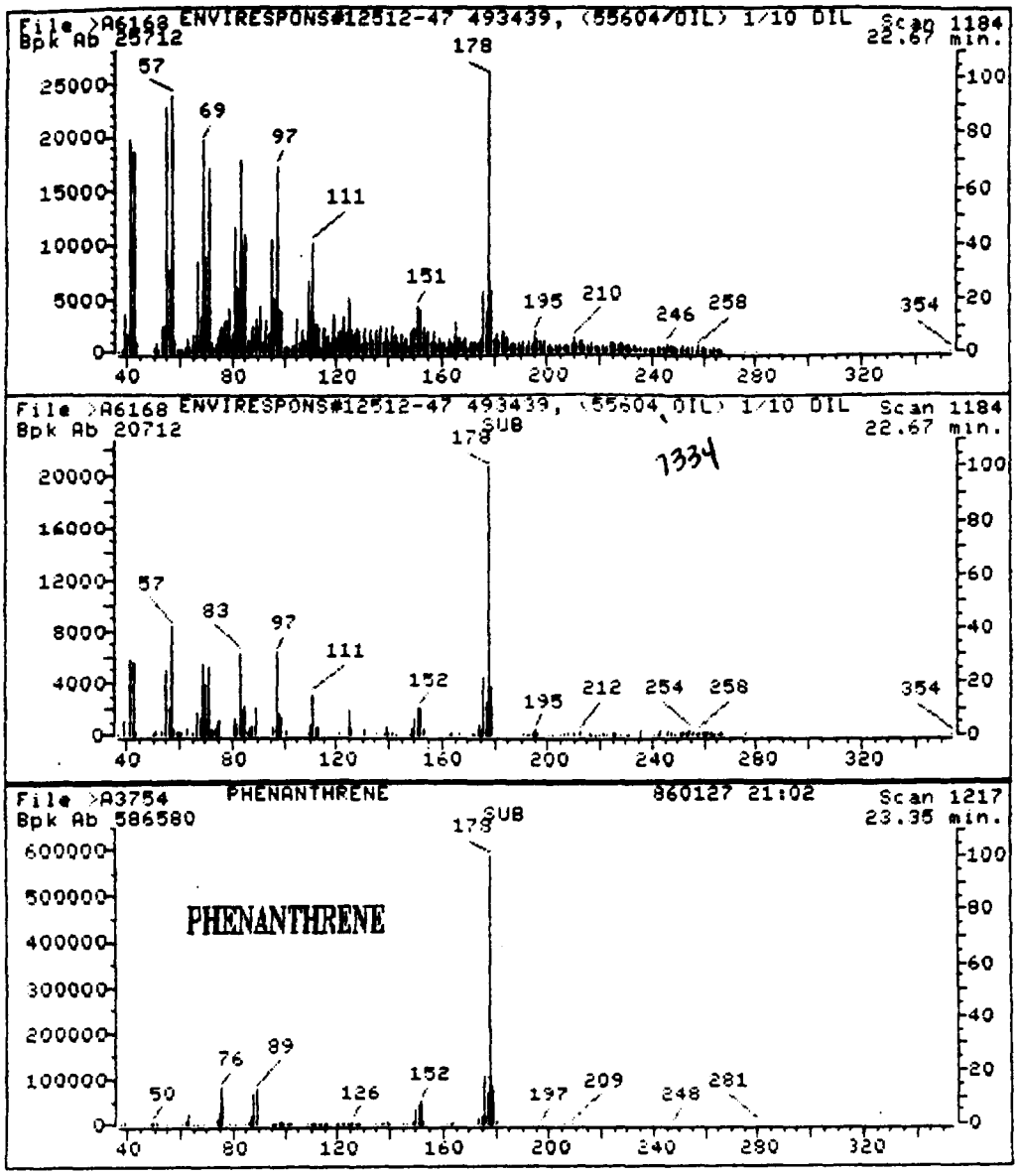
016-34



Some extraneous ion present. AS

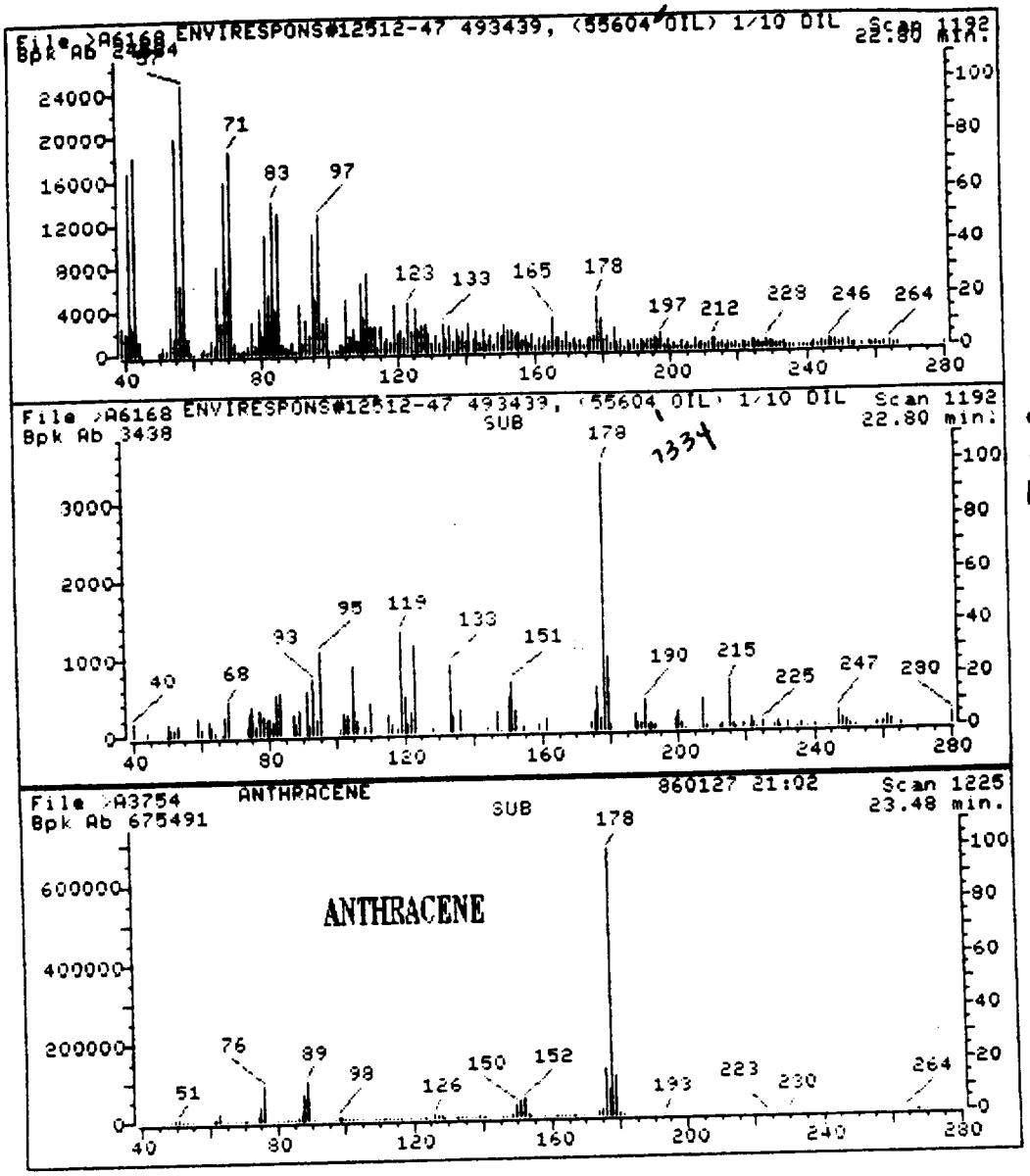
016-35

7334



extraneous ions present. JB

0756

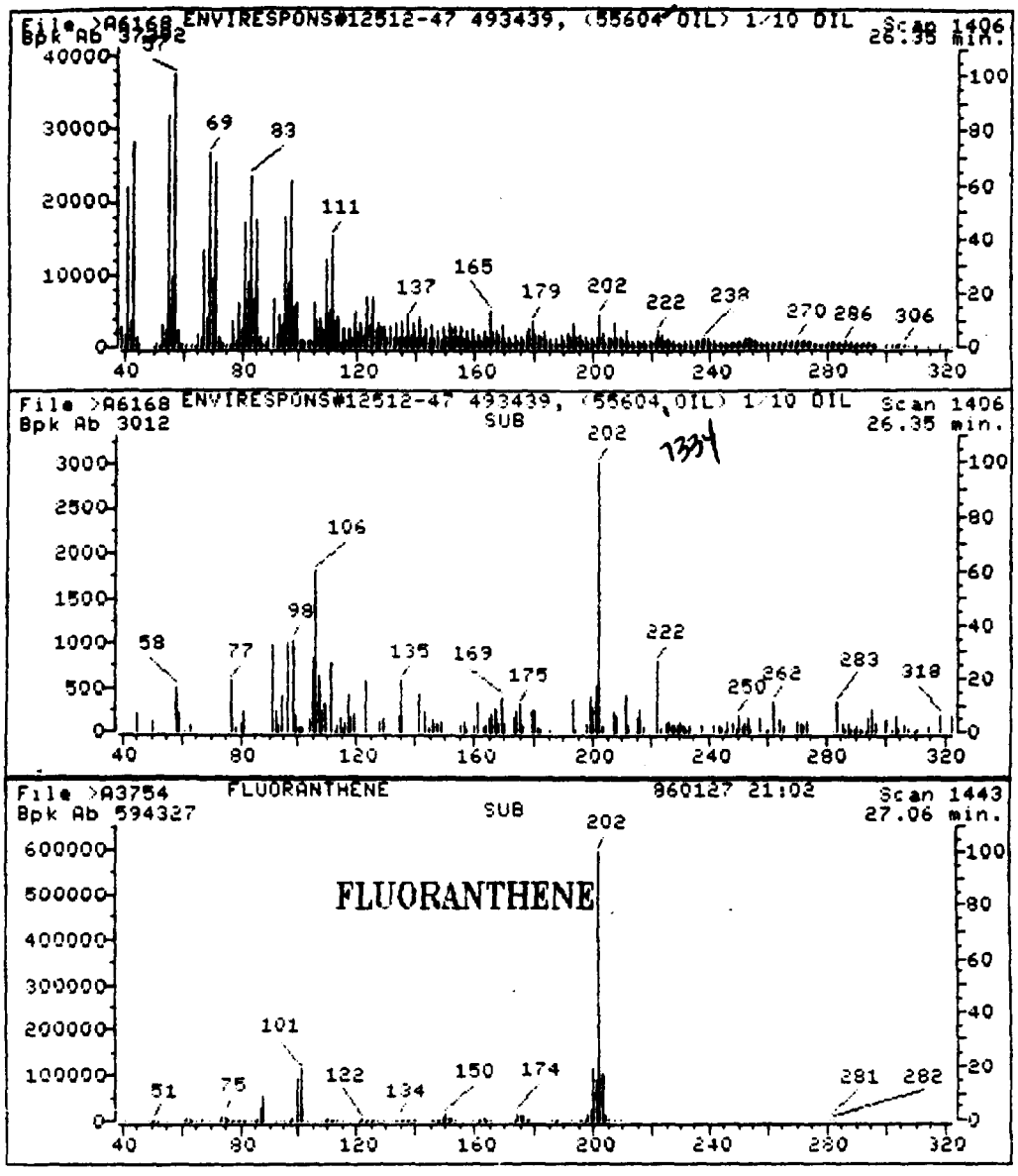


extra[illegible] ions
pre[illegible] which could
not be [illegible]tracted. AS.

2 2 0757

016-37

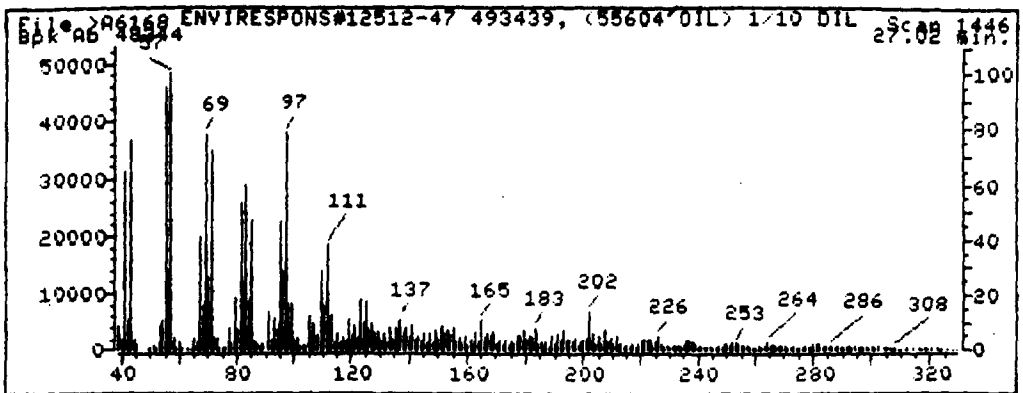
7334

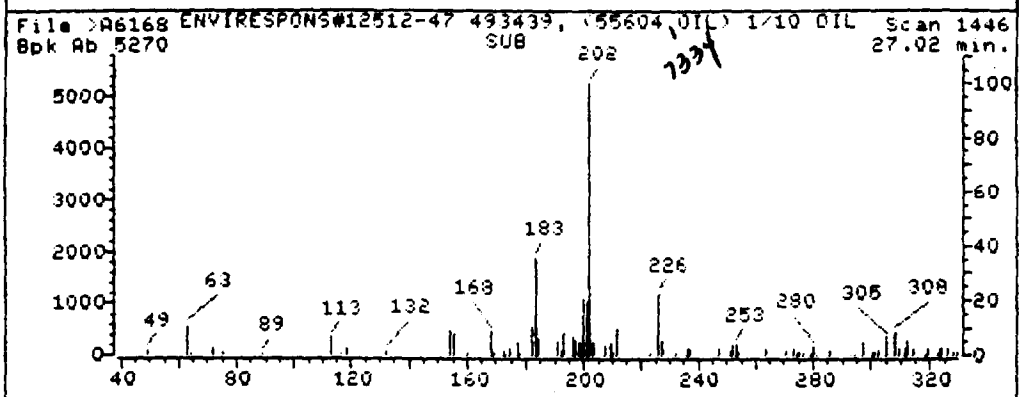


Many extraneous ic present, AS

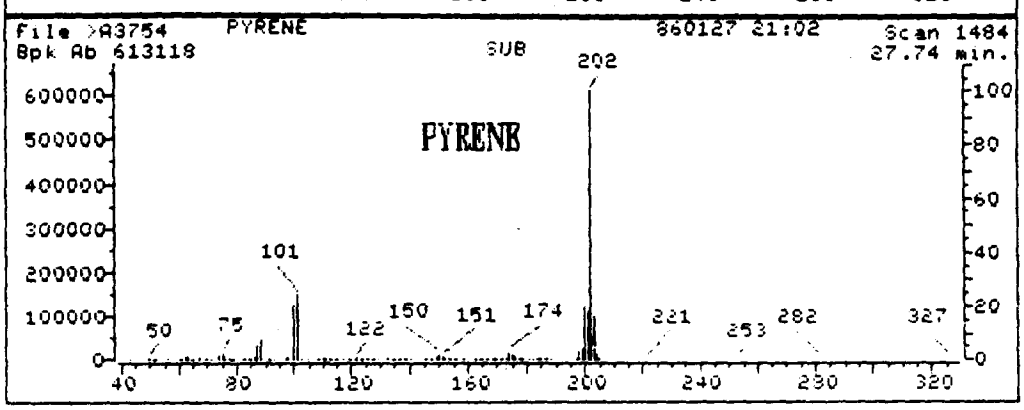
016-38

7334





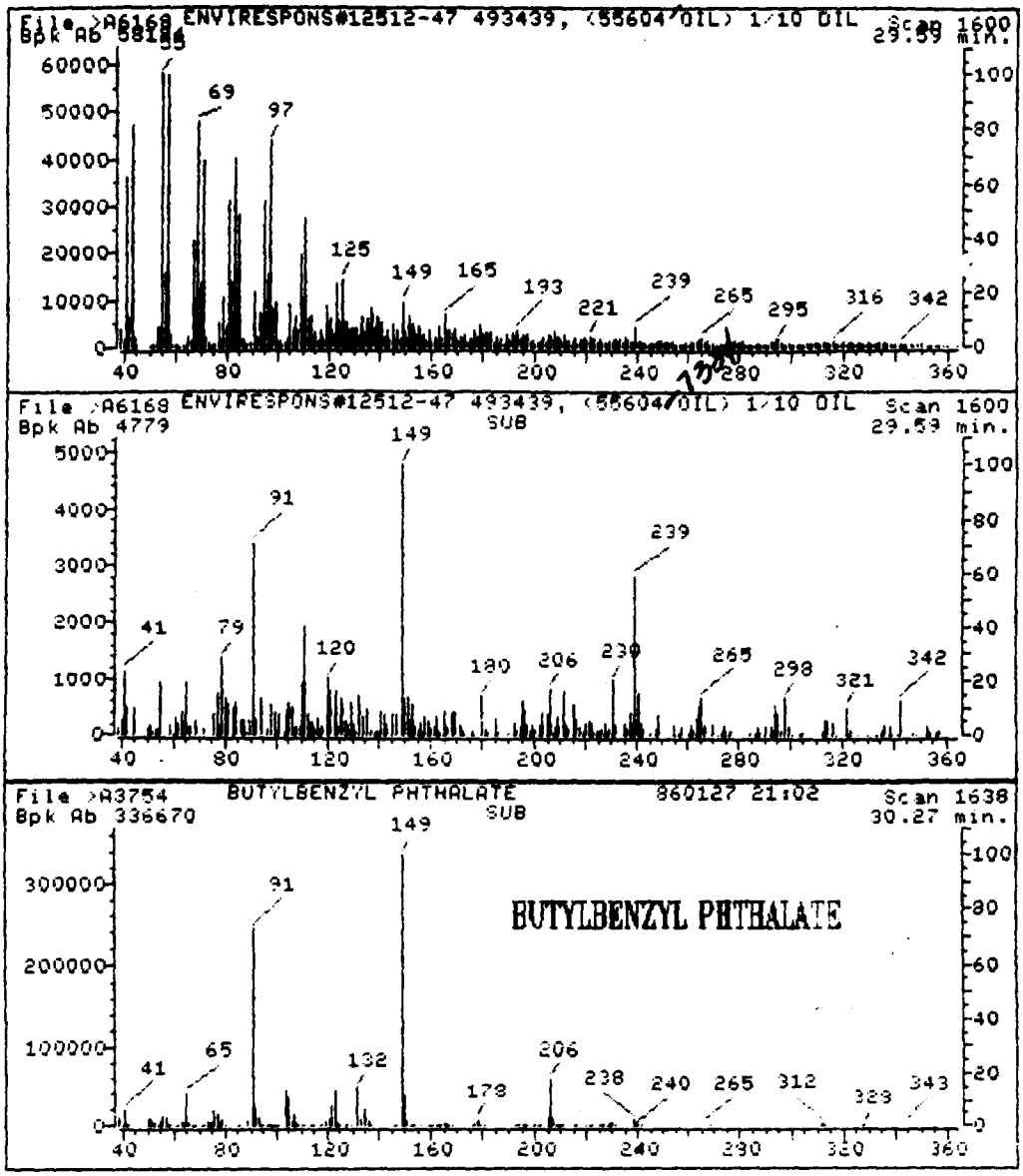
m/z = 100, 101, may have been lost in the subtraction, many extraneous ions preser



2 2 0759

016-39

1334

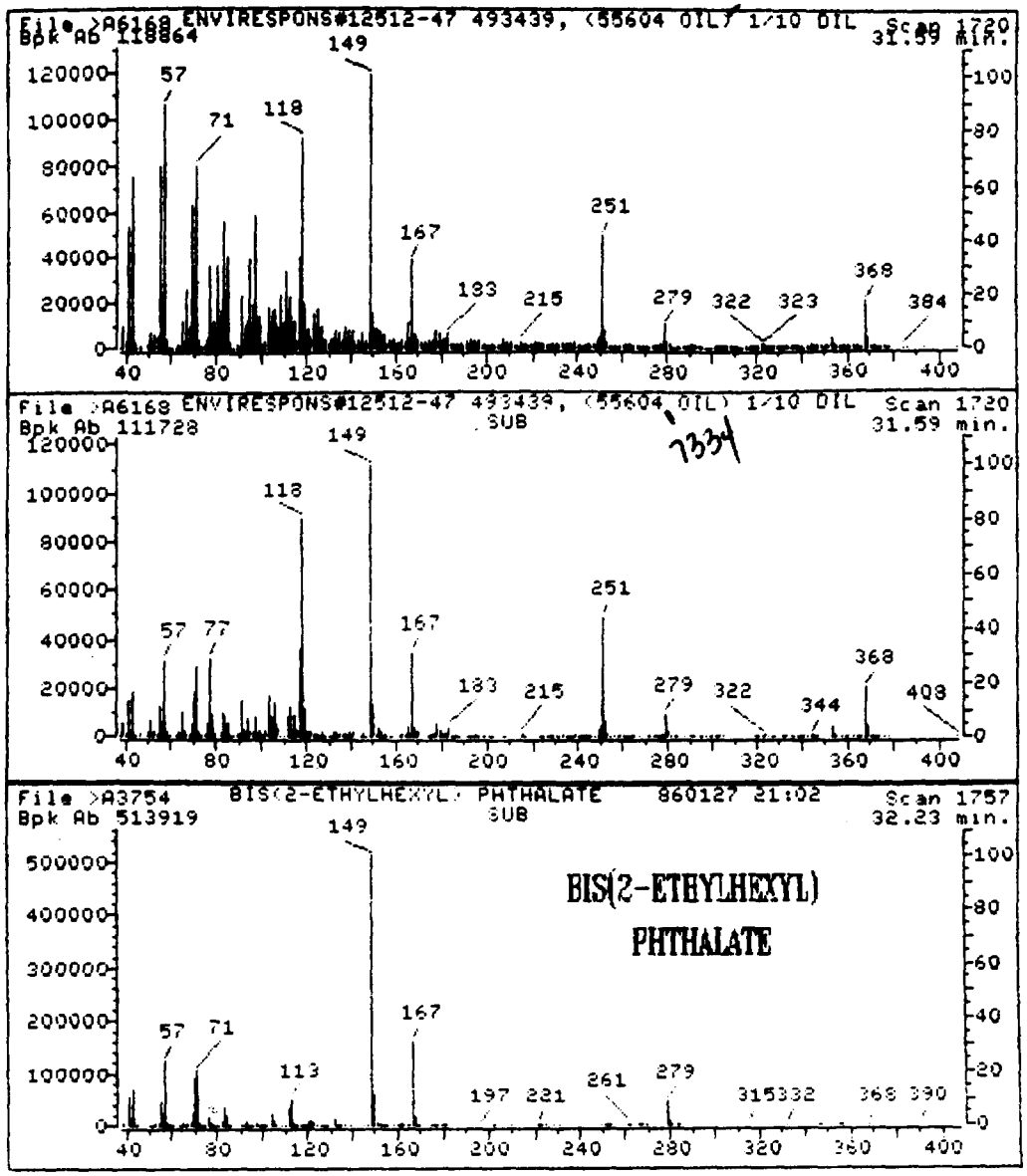


Many extraneous ions present. M/z = 239 is unknown. AS

2 2 0760

016-40

7334



coeluting compound present. AS

Laboratory Name: CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

Client ~~Case No~~: Enviresponse

Sample Number: 7334 Dup (oil)

013-18

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9/29/86

Date Analyzed: 9/29/86 (A6169)

Conc/Dil Factor: 10

Percent Moisture (Decanted): NA

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	120000 N
108-95-2	Phenol	110000 U
111-44-4	bis(-2-Chloroethyl)Ether	110000 U
95-57-8	2-Chlorophenol	110000 U
541-73-1	1, 3-Dichlorobenzene	110000 U
106-46-7	1, 4-Dichlorobenzene	110000 U
95-50-1	1, 2-Dichlorobenzene	110000 U
39638-32-9	bis(2-chloroisopropyl)Ether	110000 U
621-64-7	N-Nitroso-Di-n-Propylamine	110000 U
67-72-1	Hexachloroethane	110000 U
98-95-3	Nitrobenzene	110000 U
78-59-1	Isophorone	110000 U
88-75-5	2-Nitrophenol	110000 U
105-67-9	2, 4-Dimethylphenol	160000
111-91-1	bis(-2-Chloroethoxy)Methane	110000 U
120-83-2	2, 4-Dichlorophenol	110000 U
120-82-1	1 2, 4-Trichlorobenzene	110000 U
91-20-3	Naphthalene	150000
87-68-3	Hexachlorobutadiene	21000 J
59-50-7	4-Chloro-3-Methylphenol	110000 U
77-47-4	Hexachlorocyclopentadiene	110000 U
88-06-2	2, 4 6-Trichlorophenol	110000 U
91-58-7	2-Chloronaphthalene	110000 U
131-11-3	Dimethyl Phthalate	110000 U
208-96-8	Acenaphthylene	110000 U

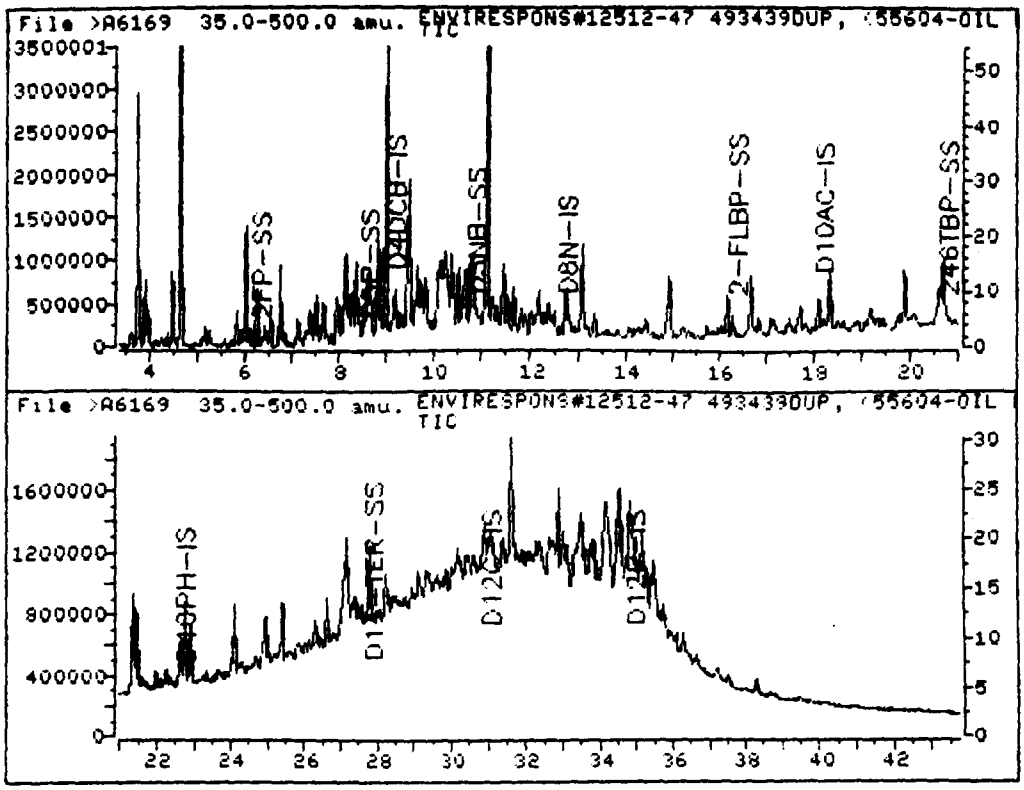
CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	110000 U
51-28-5	2, 4-Dinitrophenol	560000 U
100-02-7	4-Nitrophenol	560000 U
121-14-2	2, 4-Dinitrotoluene	110000 U
606-20-2	2, 6-Dinitrotoluene	110000 U
84-66-2	Diethylphthalate	110000 U
7005-72-3	4-Chlorophenyl-phenylether	110000 U
86-73-7	Fluorene	24000 J
534-52-1	4, 6-Dinitro-2-Methylphenol	560000 U
86-30-6	N-Nitrosodiphenylamine (1)	110000 U
101-55-3	4-Bromophenyl-phenylether	110000 U
118-74-1	Hexachlorobenzene	110000 U
87-86-5	Pentachlorophenol	560000 U
85-01-8	Phenanthrene	86000 J
120-12-7	Anthracene	9400 J
84-74-2	Di-n-Butylphthalate	110000 U
206-44-0	Fluoranthene	110000 U
92-87-5	Benzidine	1800000 N
129-00-0	Pyrene	20000 J
85-68-7	Butylbenzylphthalate	27000 J
91-94-1	3, 3'-Dichlorobenzidine	310000 N
56-55-3	Benzo(a)Anthracene	110000 U
117-81-7	bis(2-Ethylhexyl)Phthalate	400000
218-01-9	Chrysene	110000 U
117-84-0	Di-n-Octyl Phthalate	110000 U
205-99-2	Benzo(b)Fluoranthene	120000 N
207-08-9	Benzo(k)Fluoranthene	110000 U
50-32-8	Benzo(a)Pyrene	110000 U
193-39-5	Indeno(1, 2, 3-cd)Pyrene	150000 N
53-70-3	Dibenz(a h)Anthracene	180000 N
191-24-2	Benzo(g, h, i)Perylene	190000 N

(1)-Cannot be separated from diphenylamine

Form I

2 2 0762

014-13



MS data file header from : >A6169

Sample: ENVIRESPONS#12512-47 7334 Operator: MIKE MS 9/29/86 18:00
Misc : 493439DUP, (55604-OIL DUP) 1/10 DIL. IS=40NG(20UL#41005)
Sys. #: 13 MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: BNAME1 Tuning file: BNATU1 No. of extra records: 1
Source temp.: 225 Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	2.0	8.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

015-13

QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 861001 18:36
Output File: ^A6169::AQ Injected at: 860929 18:00
Data File: >A6169::AA Dilution Factor: 1.124 *
Name: ENVIRESPONS#12512-47
Misc: 493439DUP, (SS604-OIL DUP) 1/10 OIL. IS=40NG(20UL#4100S)

ID File: BNSID1::01
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 861001 17:45

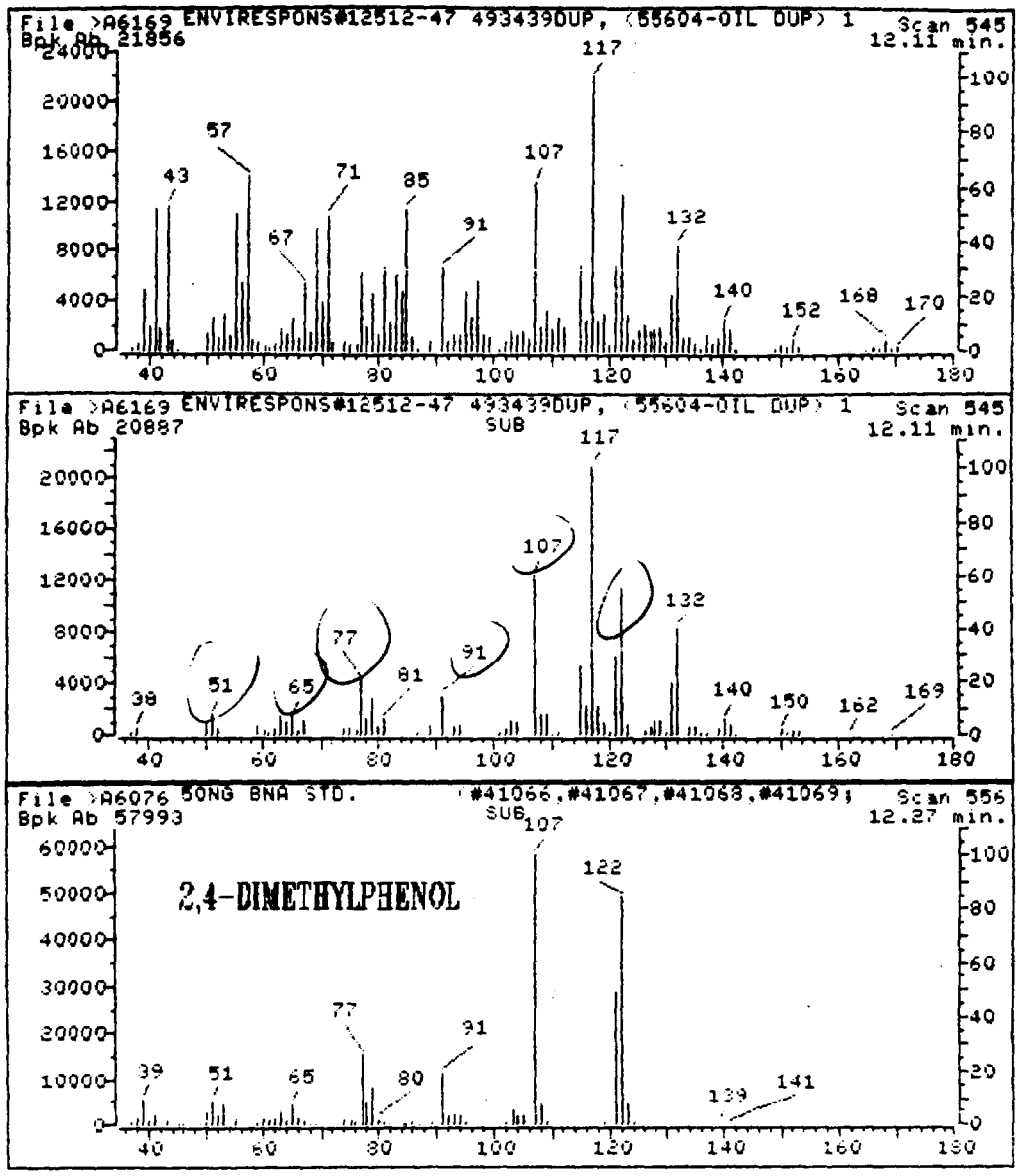
	Compound	R.T.	Scan#	Area	Conc X 10000	Units	q	** ug/kg
1)	*1,4-DICHLOROBENZENE-D4 (IS)	9.18	367	215902	40.00	ug/Kg	88	
16)	2-FLUOROPHENOL (SS)	6.26	189	549199	80.70	ug/Kg	100	
17)	PHENOL-D5 (SS)	8.62	333	683432	81.86	ug/Kg	100	
18)	*NAPHTHALENE-D8 (IS)	12.75	584	743478	40.00	ug/Kg	100	
22)	2,4-DIMETHYLPHENOL	12.11	545	76309	16.46	ug/Kg	86	164600
27)	NAPHTHALENE	12.80	587	246613	14.56	ug/Kg	93	145600
29)	HEXACHLOROBUTADIENE	13.44	626	4704	2.07	ug/Kg	87	20700
32)	NITROBENZENE-D5 (SS)	10.79	465	298495	46.64	ug/Kg	85	
33)	*ACENAPHTHENE-D10(IS)	18.09	908	342134	40.00	ug/Kg	95	
50)	FLUORENE	19.75	1008	22679	2.45	ug/Kg	99	24500
52)	2-FLUOROBIPHENYL (SS)	16.18	792	471975	42.80	ug/Kg	100	
53)	2,4,6-TRIBROMOPHENOL (SS)	20.59	1059	103829	85.20	ug/Kg	100	
54)	*PHENANTHRENE-D10 (IS)	22.59	1180	470576	40.00	ug/Kg	100	
60)	PHENANTHRENE	22.66	1184	88658	8.59	ug/Kg	100	85900
61)	ANTHRACENE	22.79	1192	11242	.94	ug/Kg	100	9400
64)	*CHRYSENE-D12 (IS)	30.88	1678	190147	40.00	ug/Kg	100	
66)	PYRENE	27.01	1446	27036	2.04	ug/Kg	100	20400
67)	BUTYLBENZYL PHTHALATE	29.58	1600	16945	2.71	ug/Kg	60	27100
70)	BIS(2-ETHYLHEXYL) PHTHALATE	31.60	1721	360825	40.41	ug/Kg	100	404100
72)	TERPHENYL-D14 (SS)	27.78	1492	412134	38.57	ug/Kg	100	
73)	*PERYLENE-D12 (IS)	35.03	1926	128502	40.00	ug/Kg	100	

* Compound is ISTD

* Based on an oil density of 0.890 g/mL.

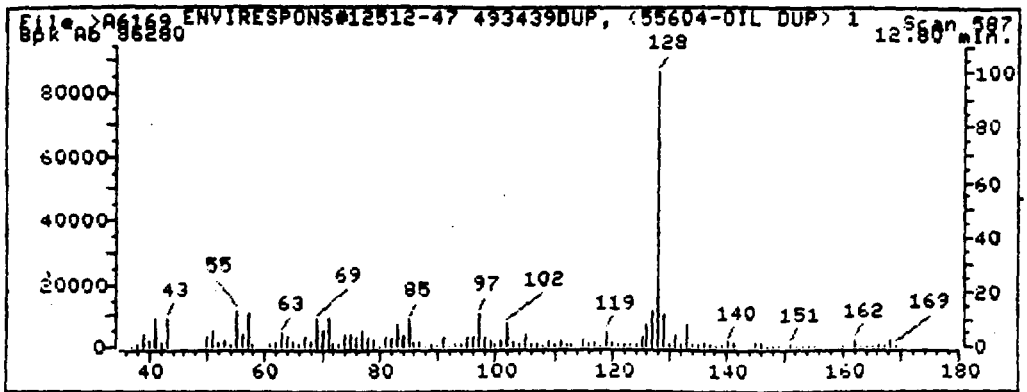
** Calculation used to account for a 1/10 dilution on 1 mL of sample (0.1).

016-50



2,4-Dimethylphenol present with coeluting compound A

016-51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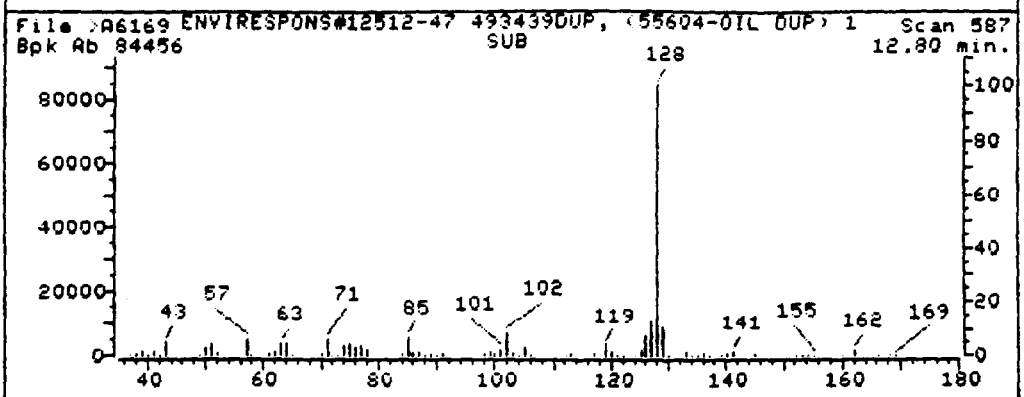
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SUB
12.80 min.
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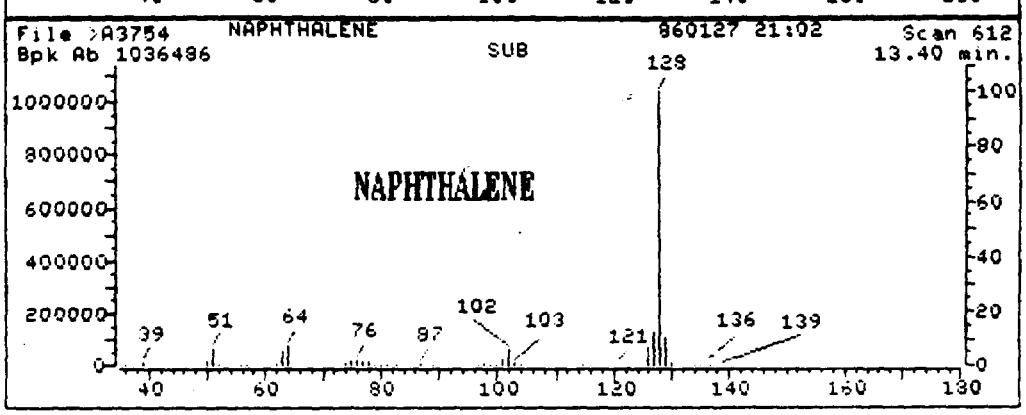
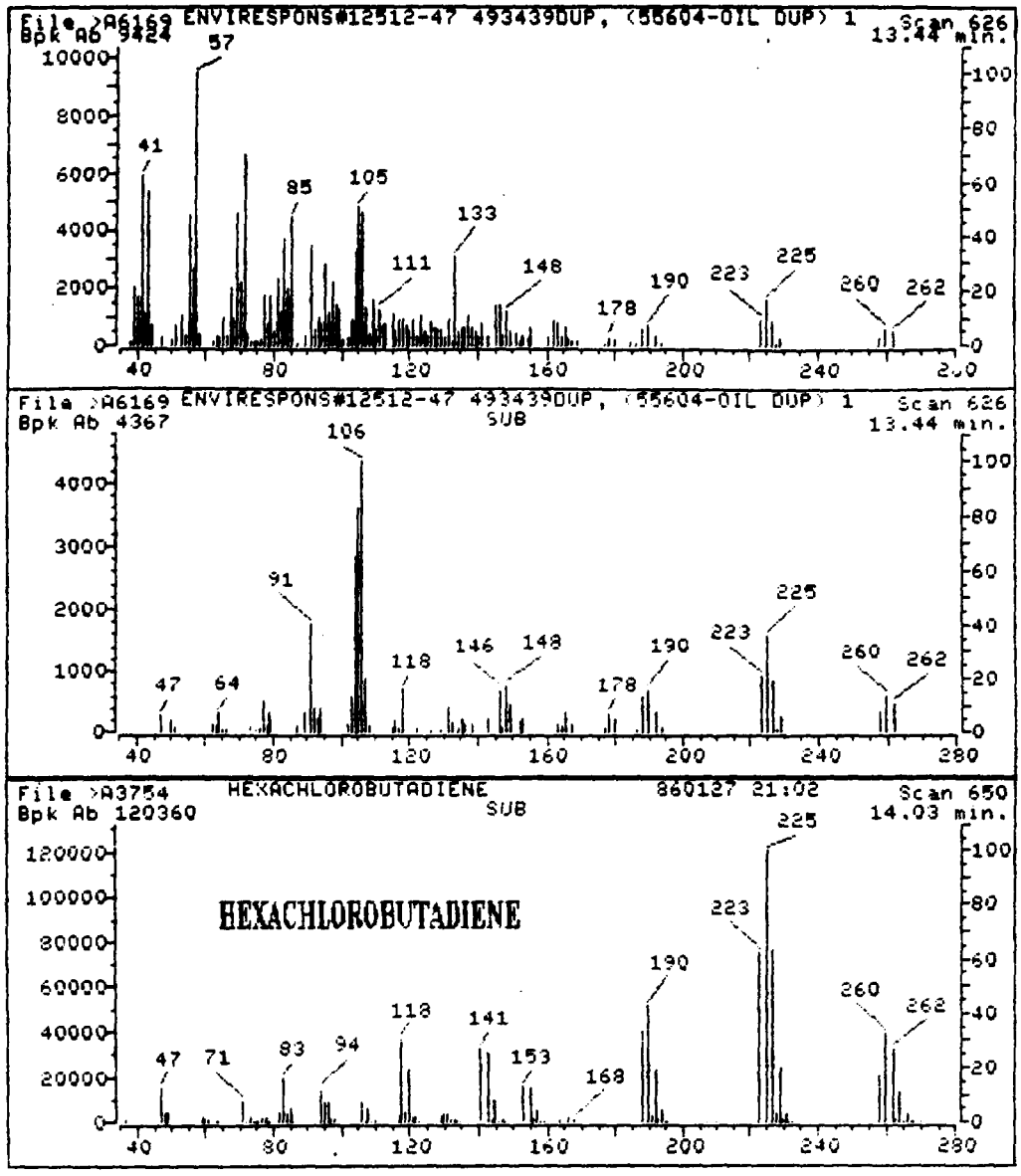
43 57 63 71 85 101 102 119 141 155 162 169


File >A3754 NAPHTHALENE 860127 21:02 Scan 612
Bpk Ab 1036486
SUB
13.40 min.
128
NAPHTHALENE
39 51 64 76 87 102 103 121 136 139

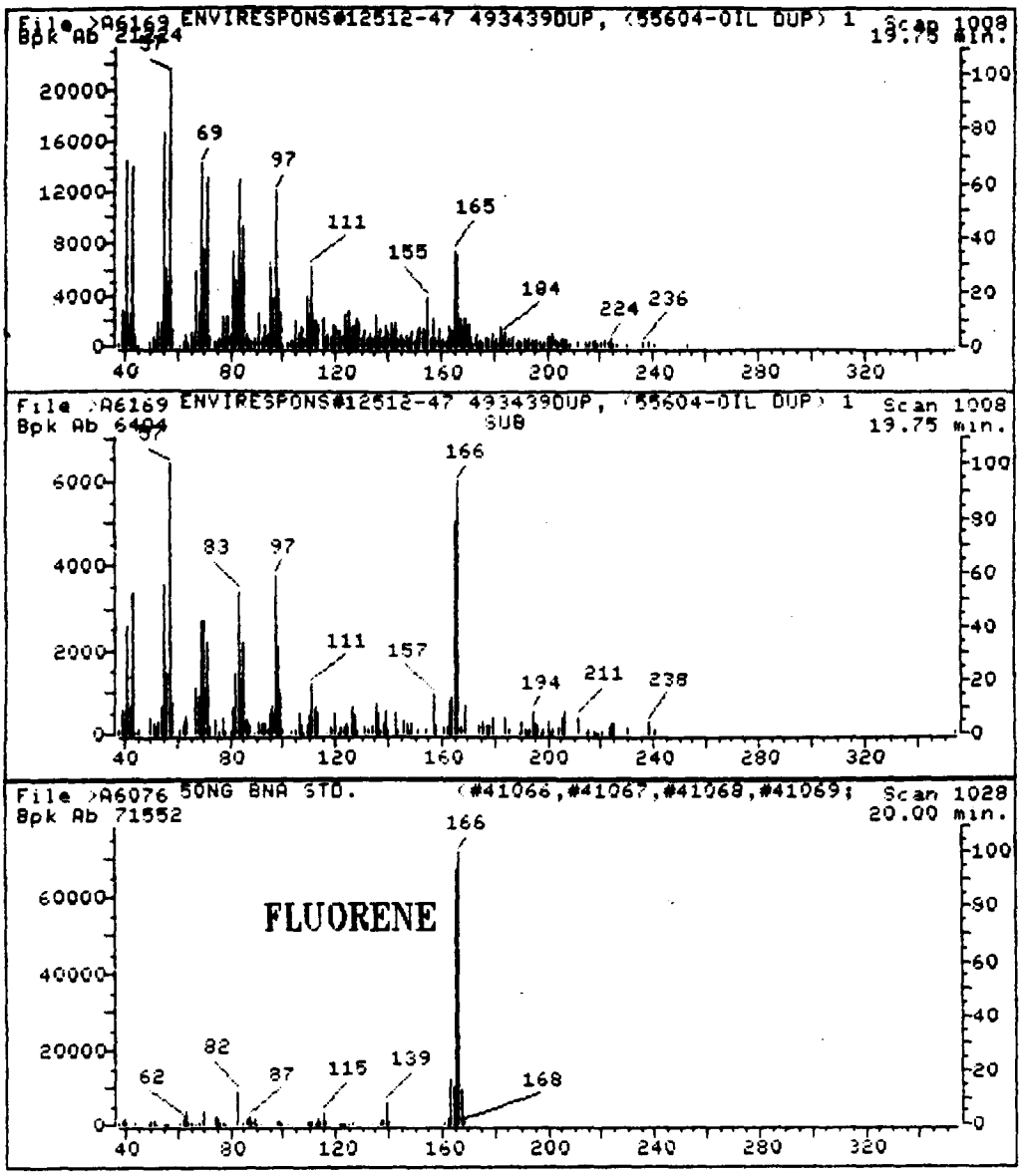
2 2 0766

016-52



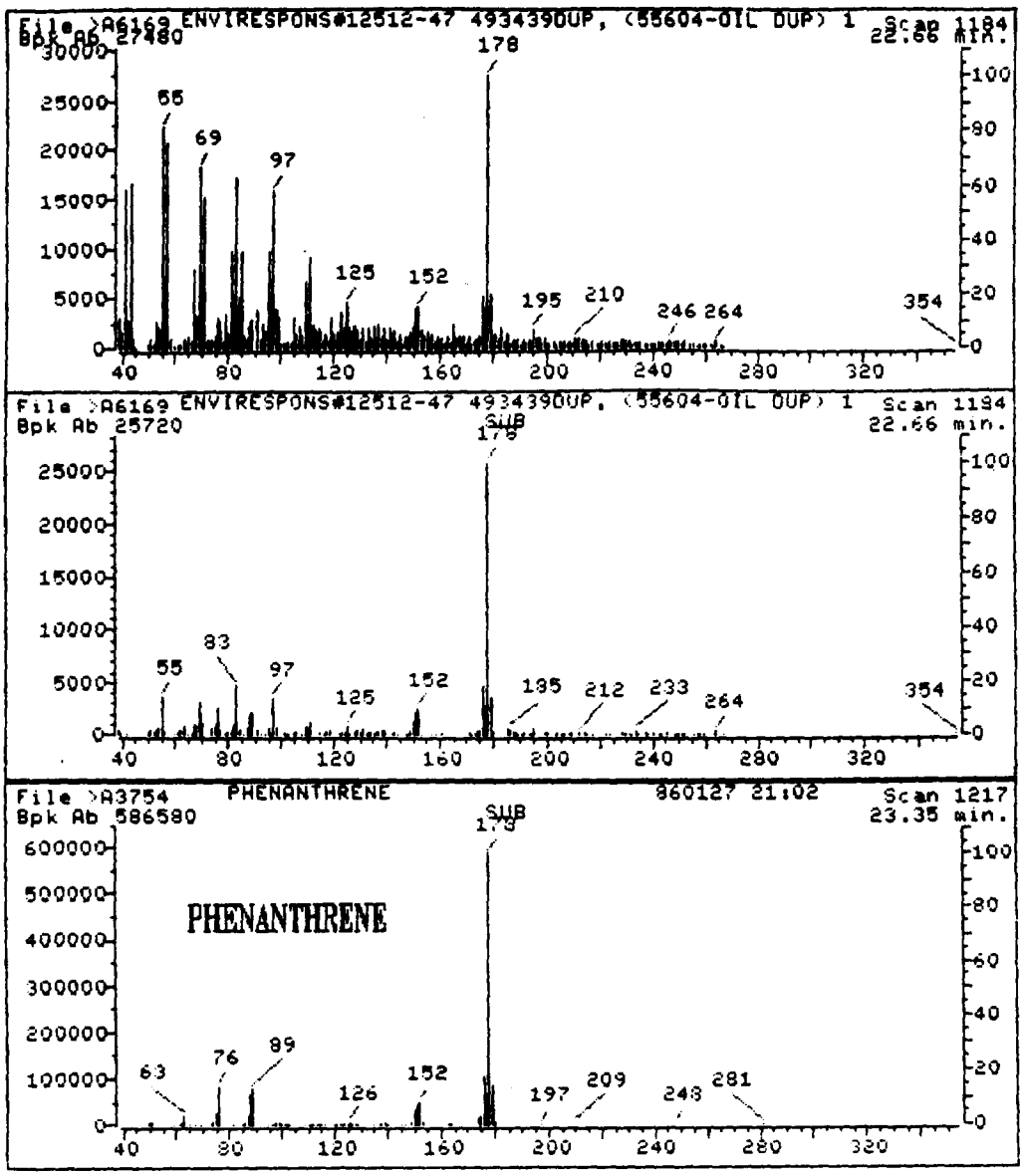
extraneous ions present. m/z=91,104,105,106 are unknown. AS

016-53



coeluting compound present most likley a hydrocarbon. AS

016-54


File >A6169 ENVIRESPONS#12512-47 4934390UP, (55604-OIL DUP) 1 Scan 1194
Bpk Ab 27480
22.66 min.
178
55
69
97
125
152
195
210
246
264
354
File >A6169 ENVIRESPONS#12512-47 4934390UP, (55604-OIL DUP) 1 Scan 1194
Bpk Ab 25720
22.66 min.
SUB
178
55
83
97
125
152
185
212
233
264
354
File >A3754 PHENANTHRENE 860127 21:02 Scan 1217
Bpk Ab 586580
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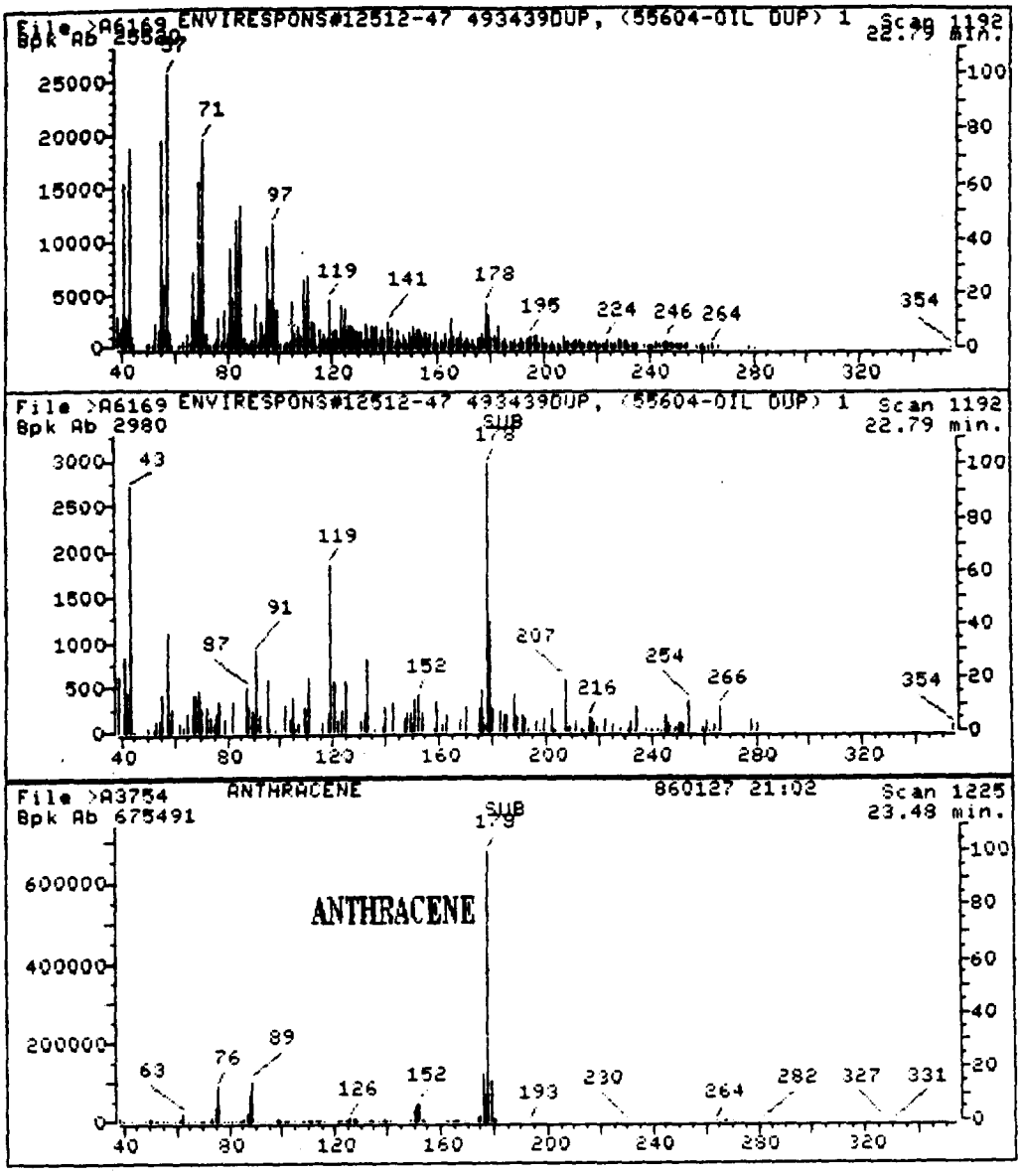
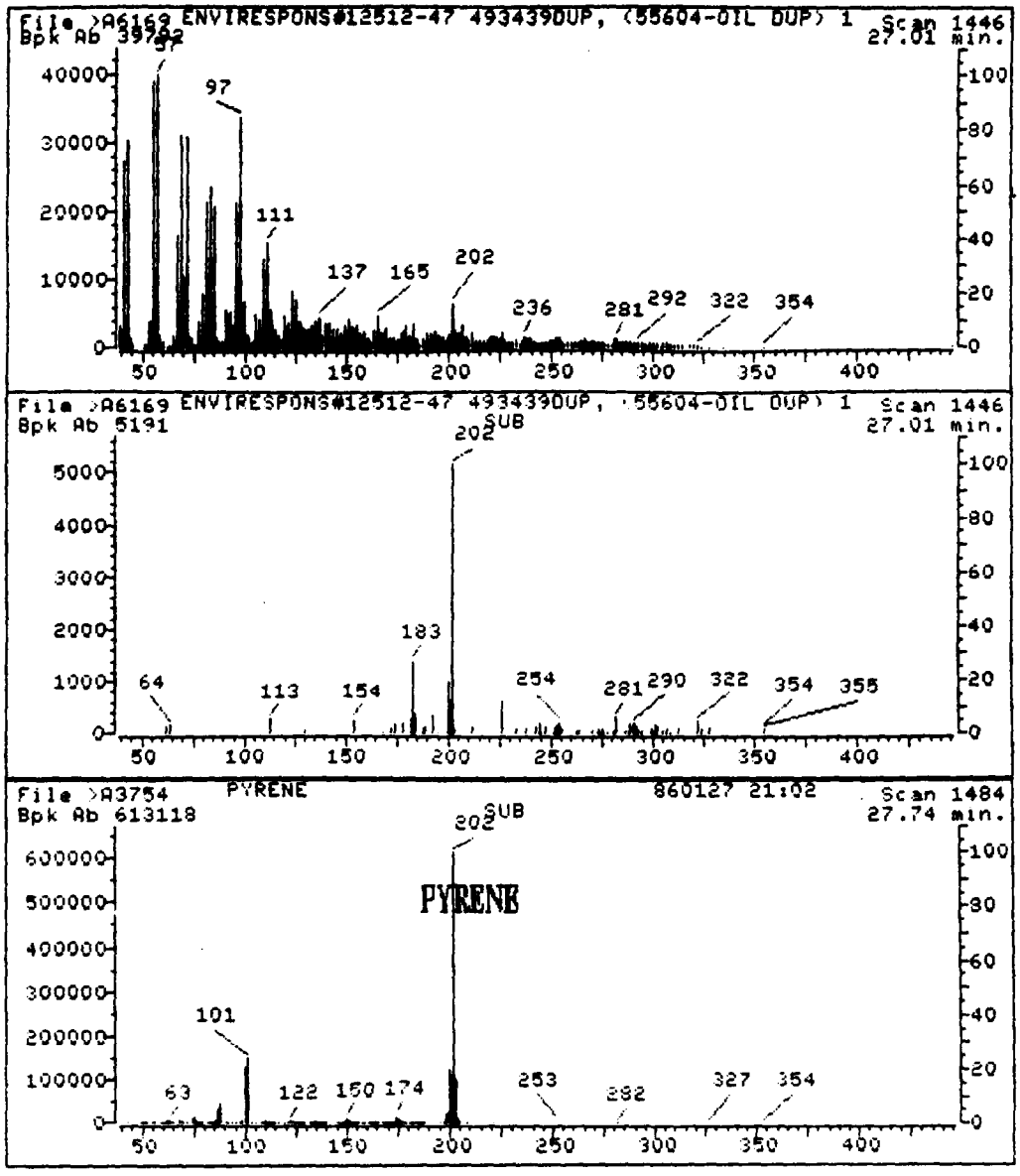
SUB
178
PHENANTHRENE
63
76
89
126
152
197
209
248
281

016-85



extraneous ions present

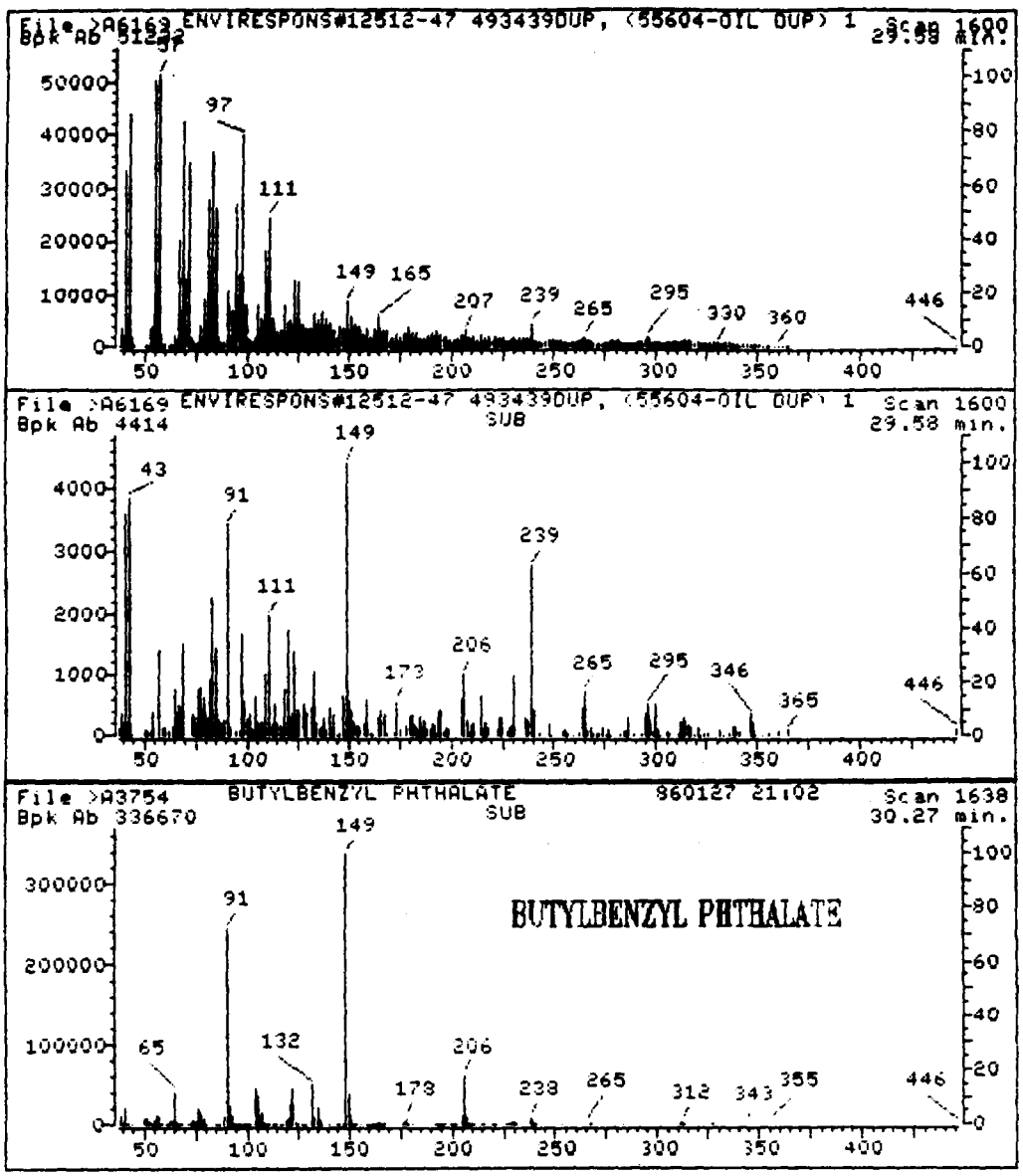
016-56



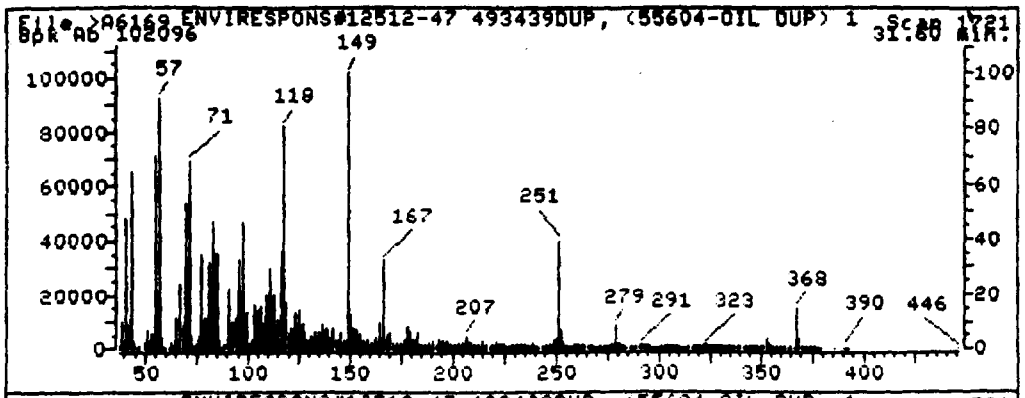
m/z = 183 is unknown.

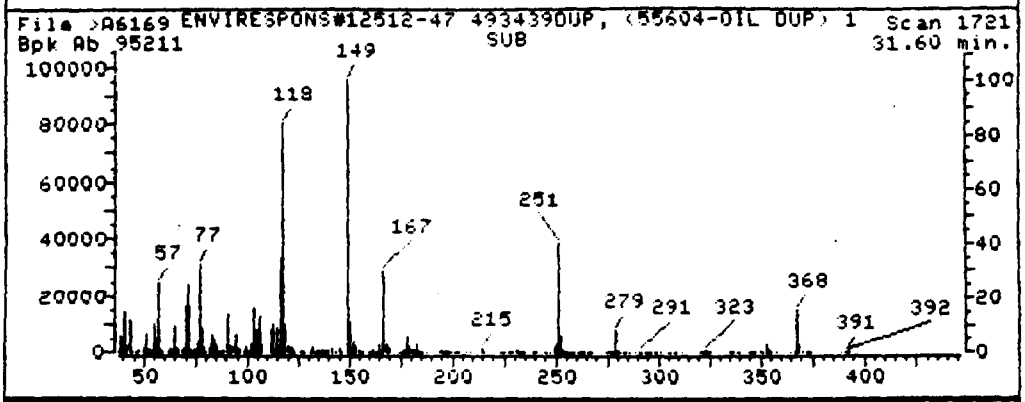
2 2 0771

016-57

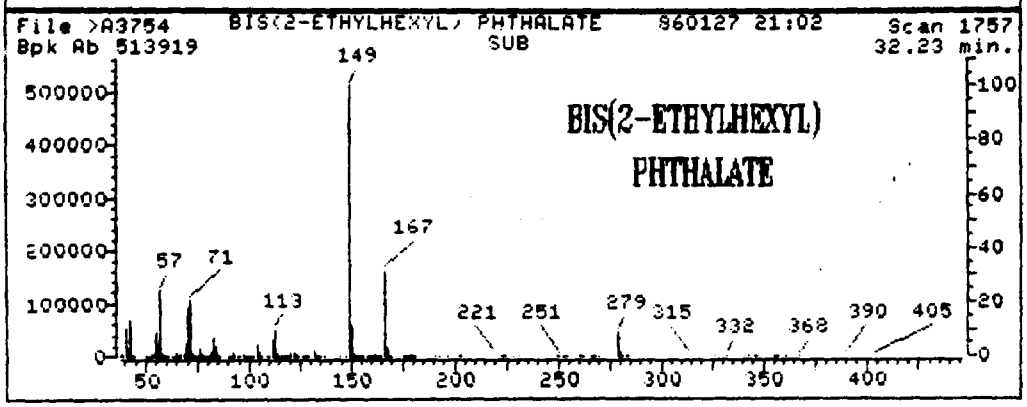


coeluting compound present. AS





coeluting compound present. AS



Jof

2 2 0773

Laboratory Name: [illegible] CONSULTANTS, INC.

Client Case No: Envirresponse

Sample Number: 7335

Organics Analysis Data Sheet
(Page 2)

013-21

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9-18-86

Date Analyzed: 9-22-86 (A6086)

Conc/Dil Factor: 1

Percent Moisture (Decanted) NA

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☑Yes

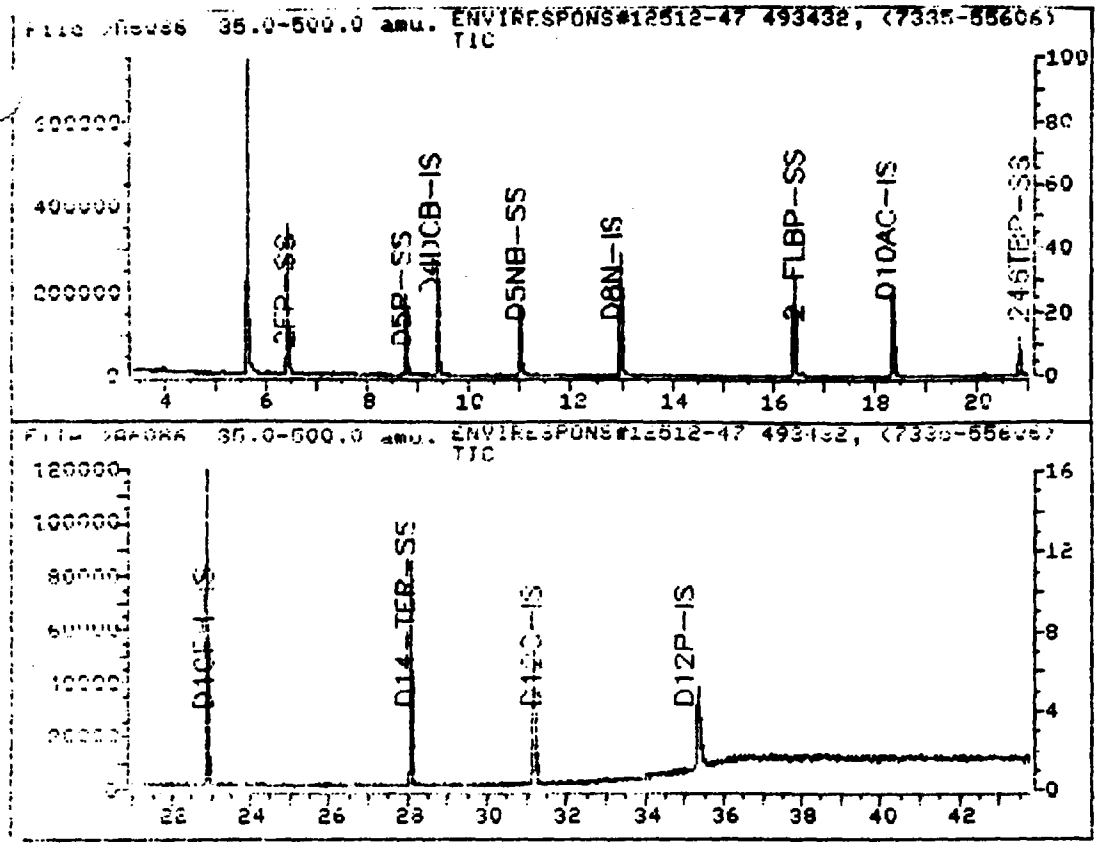
Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	11 N
108-95-2	Phenol	10 u
111-44-4	bis(2-Chloroethyl)Ether	10 u
95-57-8	2-Chlorophenol	10 u
541-73-1	1, 3-Dichlorobenzene	10 u
106-46-7	1, 4-Dichlorobenzene	10 u
95-50-1	1, 2-Dichlorobenzene	10 u
39638-32-9	bis(2-chloroisopropyl)Ether	10 u
621-64-7	N-Nitroso-Di-n-Propylamine	10 u
67-72-1	Hexachloroethane	10 u
98-95-3	Nitrobenzene	10 u
78-59-1	Isophorone	10 u
88-75-5	2-Nitrophenol	10 u
105-67-9	2, 4-Dimethylphenol	10 u
111-91-1	bis(2-Chloroethoxy)Methane	10 u
120-83-2	2, 4-Dichlorophenol	10 u
120-82-1	1 2, 4-Trichlorobenzene	10 u
91-20-3	Naphthalene	10 u
87-68-3	Hexachlorobutadiene	10 u
59-50-7	4-Chloro-3-Methylphenol	10 u
77-47-4	Hexachlorocyclopentadiene	10 u
88-06-2	2, 4, 6-Trichlorophenol	10 u
91-58-7	2-Chloronaphthalene	10 u
131-11-3	Dimethyl Phthalate	10 u
208-96-8	Acenaphthylene	10 u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	10 u
51-28-5	2, 4-Dinitrophenol	50 u
100-02-7	4-Nitrophenol	50 u
121-14-2	2, 4-Dinitrotoluene	10 u
606-20-2	2, 6-Dinitrotoluene	10 u
84-66-2	Diethylphthalate	10 u
7005-72-3	4-Chlorophenyl-phenylether	10 u
86-73-7	Fluorene	10 u
534-52-1	4, 6-Dinitro-2-Methylphenol	50 u
86-30-6	N-Nitrosodiphenylamine (1)	10 u
101-55-3	4-Bromophenyl-phenylether	10 u
118-74-1	Hexachlorobenzene	10 u
87-86-5	Pentachlorophenol	50 u
85-01-8	Phenanthrene	10 u
120-12-7	Anthracene	10 u
84-74-2	Di-n-Butylphthalate	10 u
206-44-0	Fluoranthene	10 u
92-87-5	Benzidine	160 N
129-00-0	Pyrene	10 u
85-68-7	Butylbenzylphthalate	10 u
91-94-1	3, 3'-Dichlorobenzidine	28 N
56-55-3	Benzo(a)Anthracene	10 u
117-81-7	bis(2-Ethylhexyl)Phthalate	10 u
218-01-9	Chrysene	10 u
117-84-0	Di-n-Octyl Phthalate	10 u
205-99-2	Benzo(b)Fluoranthene	11 N
207-08-9	Benzo(k)Fluoranthene	10 u
50-32-8	Benzo(a)Pyrene	10 u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	13 N
53-70-3	Dibenzo(a, h)Anthracene	16 N
191-24-2	Benzo(g, h, i)Perylene	17 N

(1)-Cannot be separated from diphenylamine

Form I



MS data file header from : >A6086

Sample: ENVIRESPONS#12512-47 Operator: MIKE MS 9/22/86 [illegible]
Misc : 493432, (7335-55606) IS=40NG(20UL#41005) BI # 1
Sys. #: 1A MS model: 32 SW/HW rev.: 1A ALS # : 0
Method file: BNAME1 Tuning file: BNATU1 No. of extra records: 1
Source temp.: [illegible] Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	2.0	8.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860923 00:44
Output File: ^A6086::AQ Injected at: 860922 23:53
Data File: >A6086::DD Dilution Factor: 2.000
Name: ENVIRESPONS#12512-47
Misc: 493432, (7335-55606) IS=40NG(20UL#41005) BTL# 1

ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860922 22:34

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-D4 (IS)	9.38	380	111347	40.00	ug/L	84
16)	2-FLUOROPHENOL (SS)	6.42	199	227514	113.02	ug/L	99
17)	PHENOL-D5 (SS)	8.76	342	179688	74.88	ug/L	89
18)	*NAPHTHALENE-D8 (IS)	12.98	600	381021	40.00	ug/L	100
32)	NITROBENZENE-D5 (SS)	11.00	479	159848	80.90	ug/L	88
33)	*ACENAPHTHENE-D10(IS)	18.36	929	144729	40.00	ug/L	95
52)	2-FLUOROBIPHENYL (SS)	16.42	810	219214	80.14	ug/L	100
53)	2,4,6-TRIBROMOPHENOL (SS)	20.81	1079	33990	130.71	ug/L	100
54)	*PHENANTHRENE-D10 (IS)	22.86	1204	153791	40.00	ug/L	100
64)	*CHRYSENE-D12 (IS)	31.17	1712	29969	40.00	ug/L	100
72)	TERPHENYL-D14 (SS)	28.04	1521	104569	104.49	ug/L	100
73)	*PERYLENE-D12 (IS)	35.32	1966	41334	40.00	ug/L	100

* Compound is ISTD

2 2 0776

Laboratory Name: CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

Client: Enviresponse

Sample Number: 7341

013-24

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9-18-86

Date Analyzed: 9-23-86 (A6100)

Conc/Dil Factor: 1

Percent Moisture (Decanted) NA

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☑Yes

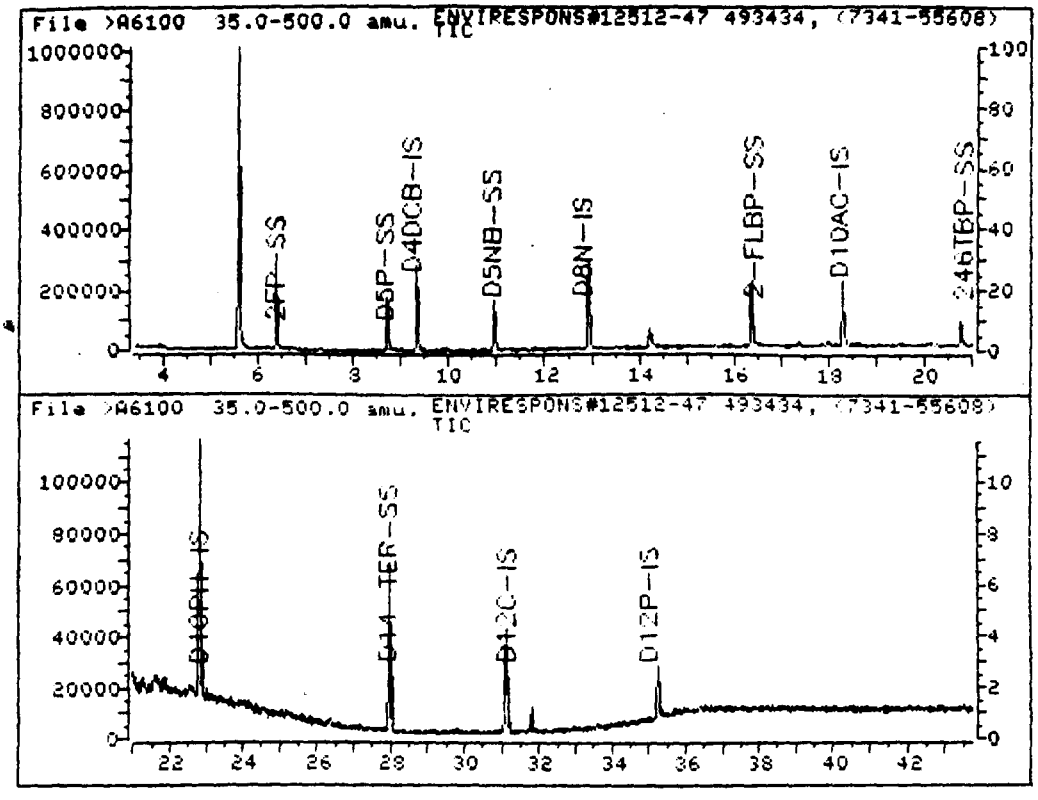
Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	11 N
108-95-2	Phenol	10 u
111-44-4	bis(-2-Chloroethyl)Ether	10 u
95-57-8	2-Chlorophenol	10 u
541-73-1	1, 3-Dichlorobenzene	10 u
106-46-7	1, 4-Dichlorobenzene	10 u
95-50-1	1, 2-Dichlorobenzene	10 u
39638-32-9	bis(2-chloroisopropyl)Ether	10 u
621-64-7	N-Nitroso-Di-n-Propylamine	10 u
67-72-1	Hexachloroethane	10 u
98-95-3	Nitrobenzene	10 u
78-59-1	Isophorone	10 u
88-75-5	2-Nitrophenol	10 u
105-67-9	2, 4-Dimethylphenol	10 u
111-91-1	bis(-2-Chloroethoxy)Methane	10 u
120-83-2	2, 4-Dichlorophenol	10 u
120-82-1	1, 2, 4-Trichlorobenzene	10 u
91-20-3	Naphthalene	10 u
87-68-3	Hexachlorobutadiene	10 u
59-50-7	4-Chloro-3-Methylphenol	10 u
77-47-4	Hexachlorocyclopentadiene	10 u
88-06-2	2, 4, 6-Trichlorophenol	10 u
91-58-7	2-Chloronaphthalene	10 u
131-11-3	Dimethyl Phthalate	10 u
208-96-8	Acenaphthylene	10 u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	10 u
51-28-5	2, 4-Dinitrophenol	50 u
100-02-7	4-Nitrophenol	50 u
121-14-2	2, 4-Dinitrotoluene	10 u
606-20-2	2, 6-Dinitrotoluene	10 u
84-66-2	Diethylphthalate	3 J B
7005-72-3	4-Chlorophenyl-phenylether	10 u
86-73-7	Fluorene	10 u
534-52-1	4, 6-Dinitro-2-Methylphenol	50 u
86-30-6	N-Nitrosodiphenylamine (1)	10 u
101-55-3	4-Bromophenyl-phenylether	10 u
118-74-1	Hexachlorobenzene	10 u
87-86-5	Pentachlorophenol	50 u
85-01-8	Phenanthrene	10 u
120-12-7	Anthracene	10 u
84-74-2	Di-n-Butylphthalate	10 u
206-44-0	Fluoranthene	10 u
92-87-5	Benzidine	160 N
129-00-0	Pyrene	10 u
85-68-7	Butylbenzylphthalate	10 u
91-94-1	3, 3'-Dichlorobenzidine	28 N
56-55-3	Benzo(a)Anthracene	10 u
117-81-7	bis(2-Ethylhexyl)Phthalate	22
218-01-9	Chrysene	10 u
117-84-0	Di-n-Octyl Phthalate	5 J
205-99-2	Benzo(b)Fluoranthene	11 N
207-08-9	Benzo(k)Fluoranthene	10 u
50-32-8	Benzo(a)Pyrene	10 u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	13 N
53-70-3	Dibenz(a, h)Anthracene	16 N
191-24-2	Benzo(g, h, i)Perylene	17 N

(1)-Cannot be separated from diphenylamine

Form I



MS data file header from : >A6100

Sample: ENVIRESPONS#12512-47 Operator: MIKE MS 9/23/86 18:26
Misc : 493434, (7341-55608) IS=40NG(20UL#41005) BTL# 1
Sys. #: 1A MS model: 87 SW/HW rev.: CA ALS # : 0
Method file: BNAME1 Tuning file: BNATU1 No. of extra records: 1
Source temp.: 225 Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	2.0	8.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

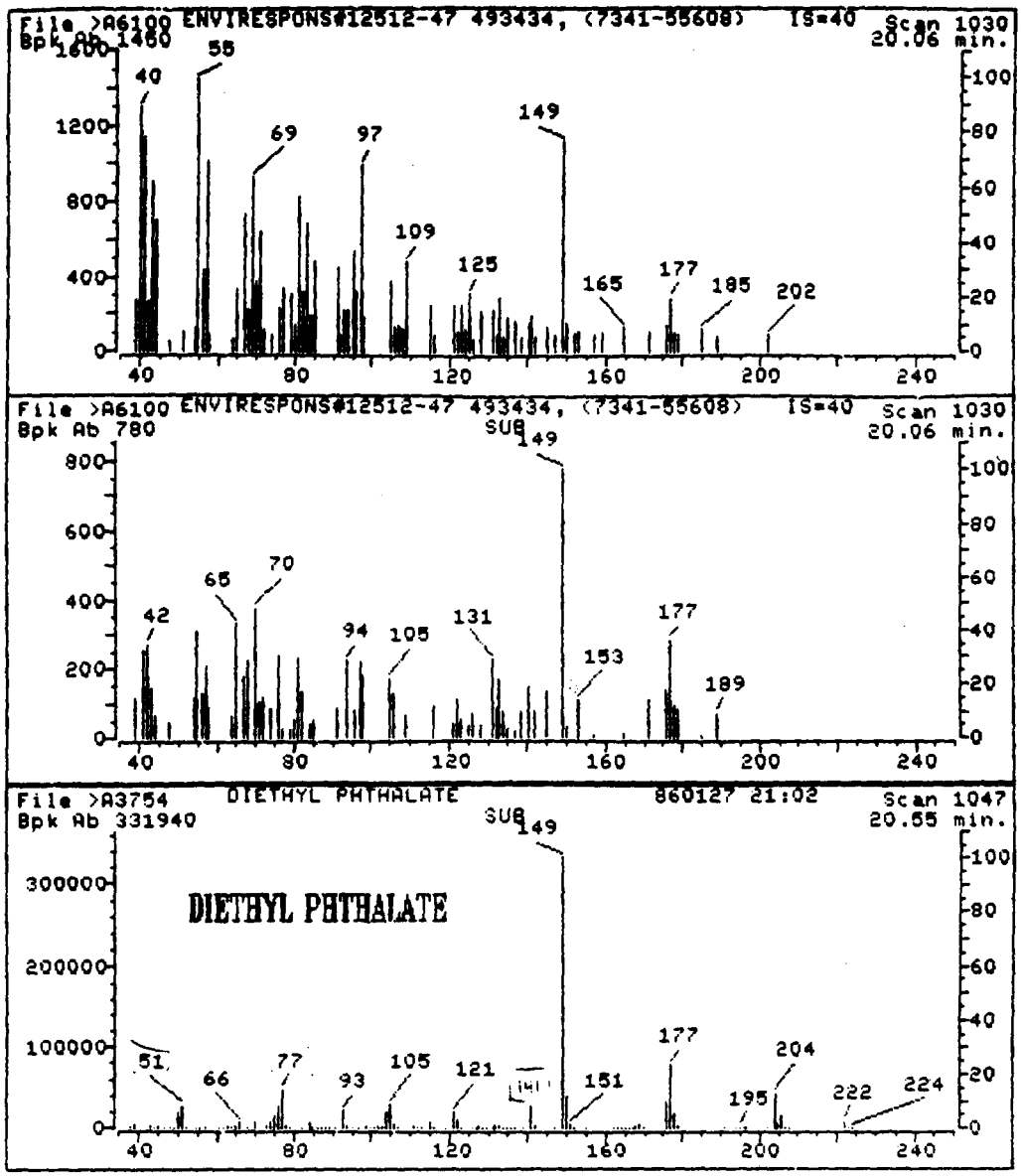
QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860923 19:12
Output File: ^A6100::AQ Injected at: 860923 18:26
Data File: >A6100::DD Dilution Factor: 2.000
Name: ENVIRESPONS#12512-47
Misc: 493434, (7341-55608) IS=40NG(20UL#41005) BTL# 1

ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860923 17:20

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-D4 (IS)	9.34	376	108929	40.00	ug/L	84
16)	2-FLUOROPHENOL (SS)	6.39	196	197283	106.93	ug/L	86
17)	PHENOL-D5 (SS)	8.72	338	165265	78.68	ug/L	86
18)	*NAPHTHALENE-D8 (IS)	12.92	595	372602	40.00	ug/L	100
32)	NITROBENZENE-D5 (SS)	10.96	475	153965	83.94	ug/L	81
33)	*ACENAPHTHENE-D10(IS)	18.29	922	142150	40.00	ug/L	97
48)	DIETHYL PHTHALATE	20.06	1030	6266	3.36	ug/L	98
52)	2-FLUOROBIPHENYL (SS)	16.37	805	213090	75.65	ug/L	100
53)	2,4,6-TRIBROMOPHENOL (SS)	20.75	1072	30817	141.58	ug/L	100
54)	*PHENANTHRENE-D10 (IS)	22.79	1196	129815	40.00	ug/L	100
64)	*CHRYSENE-D12 (IS)	31.06	1701	21367	40.00	ug/L	100
70)	BIS(2-ETHYLHEXYL) PHTHALATE	31.76	1744	10883	22.26	ug/L	95
72)	TERPHENYL-D14 (SS)	27.97	1512	72825	86.95	ug/L	100
73)	*PERYLENE-D12 (IS)	35.22	1955	29325	40.00	ug/L	100
74)	DI-N-OCTYL PHTHALATE	33.60	1856	3185	4.93	ug/L	100

* Compound is ISTD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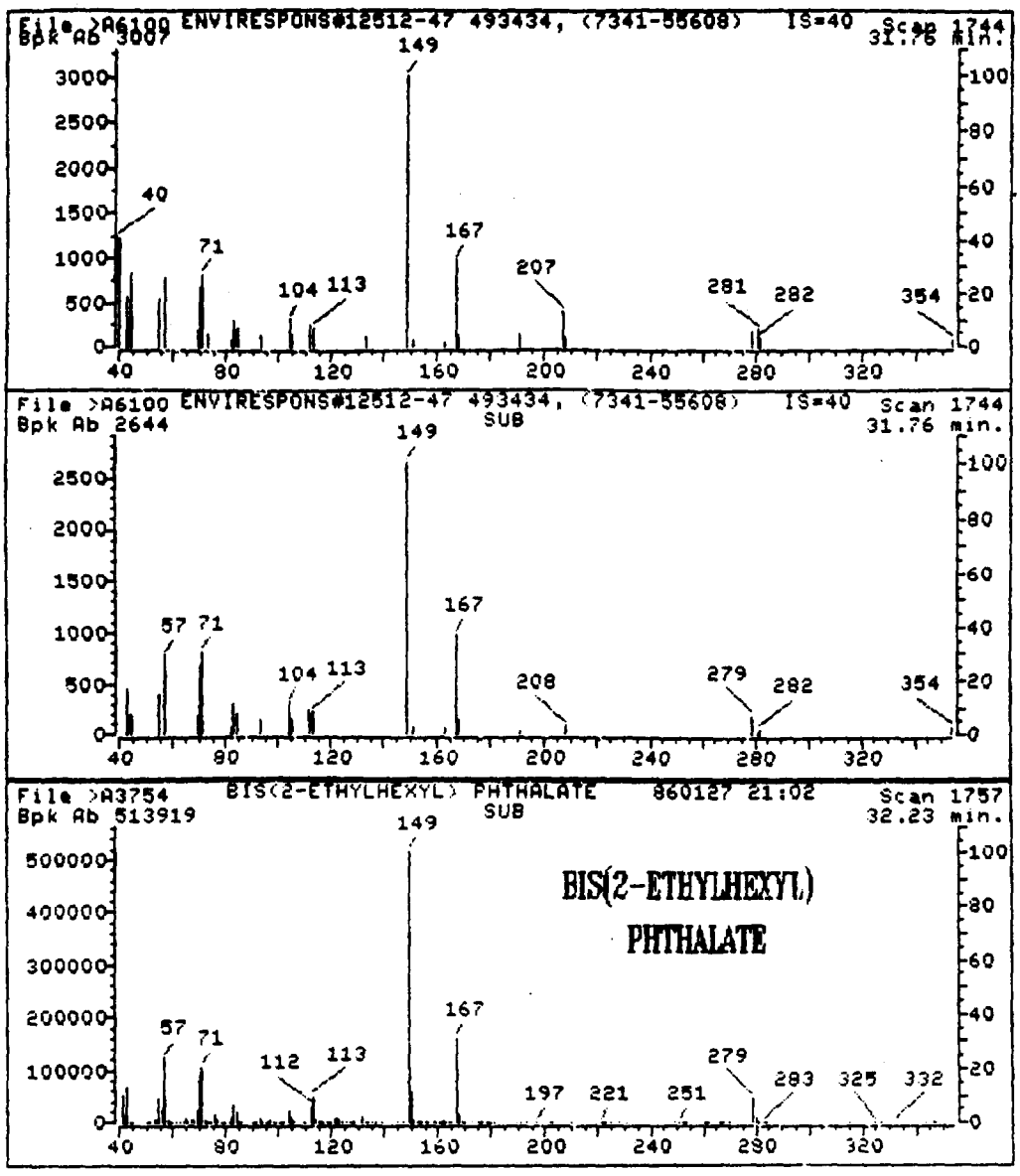
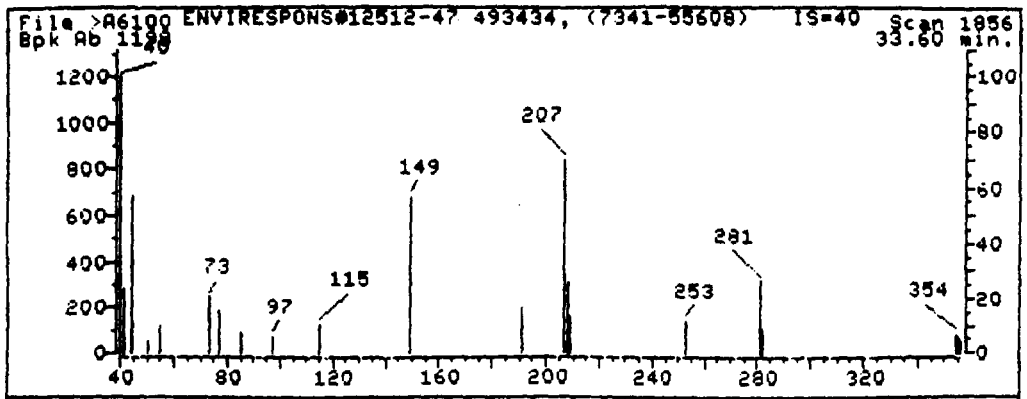
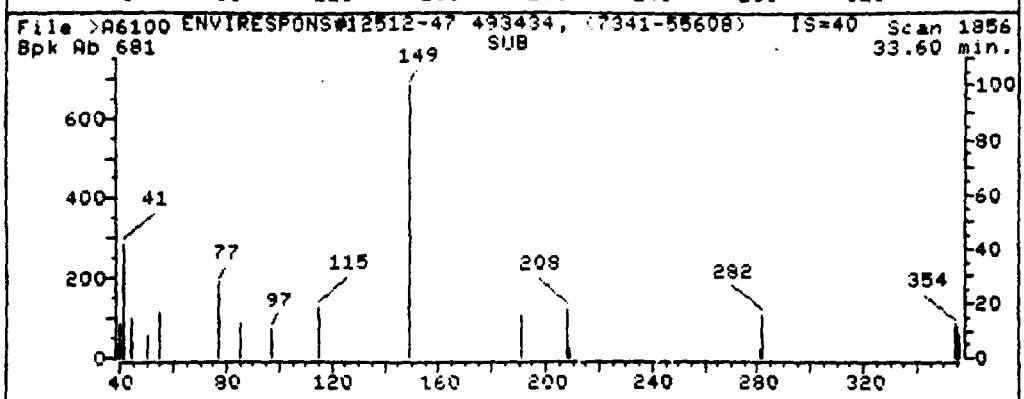
Bpk Ab 1460 20.06 min.
File >A6100 ENVIRESPONS#12512-47 493434, (7341-55608) IS=40 Scan 1030
Bpk Ab 780 SUB 20.06 min.
File >A3754 DIETHYL PHTHALATE 860127 21:02 Scan 1047
Bpk Ab 331940 SUB 20.55 min.
DIETHYL PHTHALATE

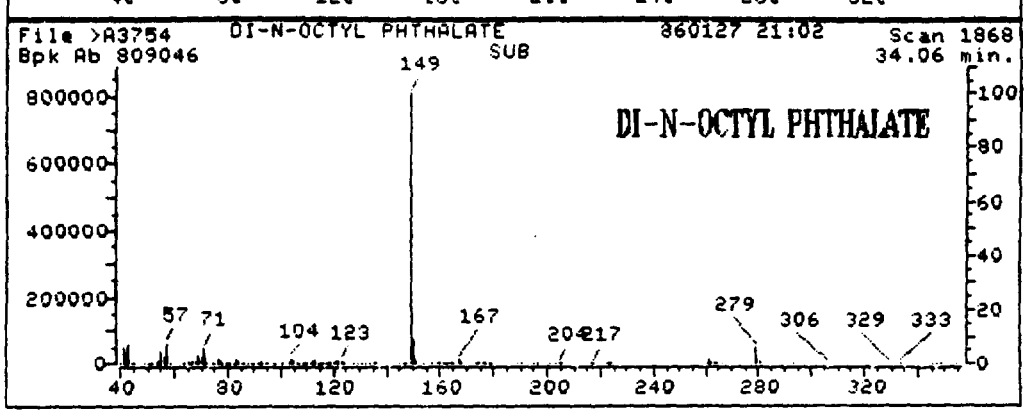
016-65


File >A6100 ENVIRESPONS#12512-47 493434, (7341-55608) IS=40 Scan 1744
Bpk Ab 3007 31.76 min.
149
40
71
104 113
167
207
281 282
354
File >A6100 ENVIRESPONS#12512-47 493434, (7341-55608) IS=40 Scan 1744
SUB
Bpk Ab 2644 31.76 min.
149
57 71
104 113
167
208
279 282
354
File >A3754 BIS(2-ETHYLHEXYL) PHTHALATE 860127 21:02 Scan 1757
SUB
Bpk Ab 513919 32.23 min.
149
BIS(2-ETHYLHEXYL)
PHTHALATE
57 71
112 113
167
197 221 251
279
283 325 332

016-66







level below CRDL.
Extraneous ions present which could not be subtracted away. AJ

2 2 0782

Laboratory Name: [illegible], INC.

Client Case No: Envirresponse

Sample Number: 7342

Organics Analysis Data Sheet
(Page 2)

013-27

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date (Extracted)/Prepared: 9-18-86

Date Analyzed: 9-23-86 (A6089)

Conc/(Dil Factor): 1

Percent Moisture (Decanted): NA

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☒Yes

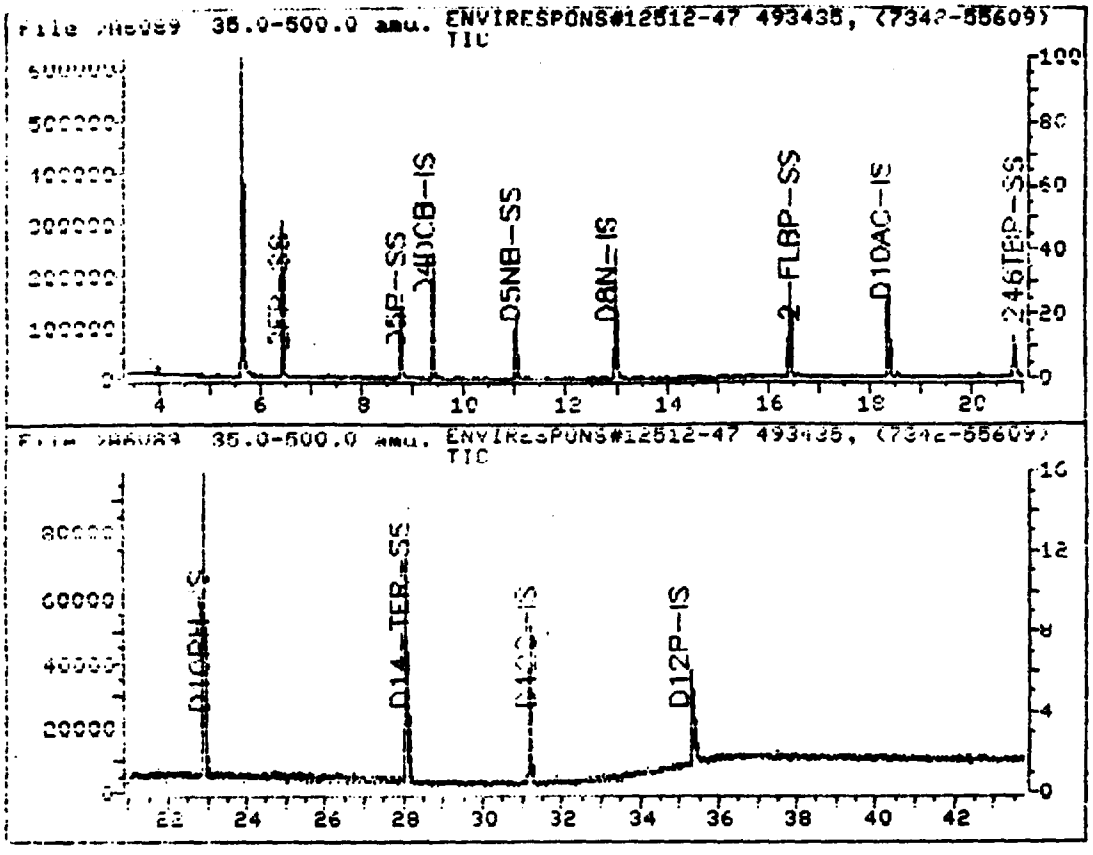
Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		(ug/l) or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	11 N
108-95-2	Phenol	10 u
111-44-4	bis(-2-Chloroethyl)Ether	10 u
95-57-8	2-Chlorophenol	10 u
541-73-1	1, 3-Dichlorobenzene	10 u
106-46-7	1, 4-Dichlorobenzene	10 u
95-50-1	1, 2-Dichlorobenzene	10 u
39638-32-9	bis(2-chloroisopropyl)Ether	10 u
621-64-7	N-Nitroso-Di-n-Propylamine	10 u
67-72-1	Hexachloroethane	10 u
98-95-3	Nitrobenzene	10 u
78-59-1	Isophorone	10 u
88-75-5	2-Nitrophenol	10 u
105-67-9	2, 4-Dimethylphenol	10 u
111-91-1	bis(-2-Chloroethoxy)Methane	10 u
120-83-2	2, 4-Dichlorophenol	10 u
120-82-1	1 2, 4-Trichlorobenzene	10 u
91-20-3	Naphthalene	10 u
87-68-3	Hexachlorobutadiene	10 u
59-50-7	4-Chloro-3-Methylphenol	10 u
77-47-4	Hexachlorocyclopentadiene	10 u
88-06-2	2, 4 6-Trichlorophenol	10 u
91-58-7	2-Chloronaphthalene	10 u
131-11-3	Dimethyl Phthalate	10 u
208-96-8	Acenaphthylene	10 u

CAS Number		(ug/l) or ug/Kg (Circle One)
83-32-9	Acenaphthene	10 u
51-28-5	2, 4-Dinitrophenol	50 u
100-02-7	4-Nitrophenol	50 u
121-14-2	2, 4-Dinitrotoluene	10 u
606-20-2	2, 6-Dinitrotoluene	10 u
84-66-2	Diethylphthalate	3 J B
7005-72-3	4-Chlorophenyl-phenylether	10 u
86-73-7	Fluorene	10 u
534-52-1	4, 6-Dinitro-2-Methylphenol	50 u
86-30-6	N-Nitrosodiphenylamine (1)	10 u
101-55-3	4-Bromophenyl-phenylether	10 u
118-74-1	Hexachlorobenzene	10 u
87-86-5	Pentachlorophenol	50 u
85-01-8	Phenanthrene	10 u
120-12-7	Anthracene	10 u
84-74-2	Di-n-Butylphthalate	10 u
206-44-0	Fluoranthene	10 u
92-87-5	Benzidine	160 N
129-00-0	Pyrene	10 u
85-68-7	Butylbenzylphthalate	10 u
91-94-1	3, 3'-Dichlorobenzidine	28 N
56-55-3	Benzo(a)Anthracene	10 u
117-81-7	bis(2-Ethylhexyl)Phthalate	10 u
218-01-9	Chrysene	10 u
117-84-0	Di-n-Octyl Phthalate	10 u
205-99-2	Benzo(b)Fluoranthene	11 N
207-08-9	Benzo(k)Fluoranthene	10 u
50-32-8	Benzo(a)Pyrene	10 u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	13 N
53-70-3	Dibenzo(a, h)Anthracene	16 N
191-24-2	Benzo(g, h, i)Perylene	17 N

(1)-Cannot be separated from diphenylamine

2 2 0783
014-19



MS data file header from : >A6089

Sample: ENVIRESPONS#12512-47 Operator: MIKE MS 9/23/86 2:50
Mins : 493435, (7342-55609) IS=40NG(20UL#41005) BTL# 4
Sys. #: 1A MS model: 87 SW/HW rev.: 1A ALS # : 0
Method File: BNAME1 Tuning File: BNATU1 No. of extra records: 1
Source temp.: 225 Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	2.0	8.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

015-19

QUANT REPORT

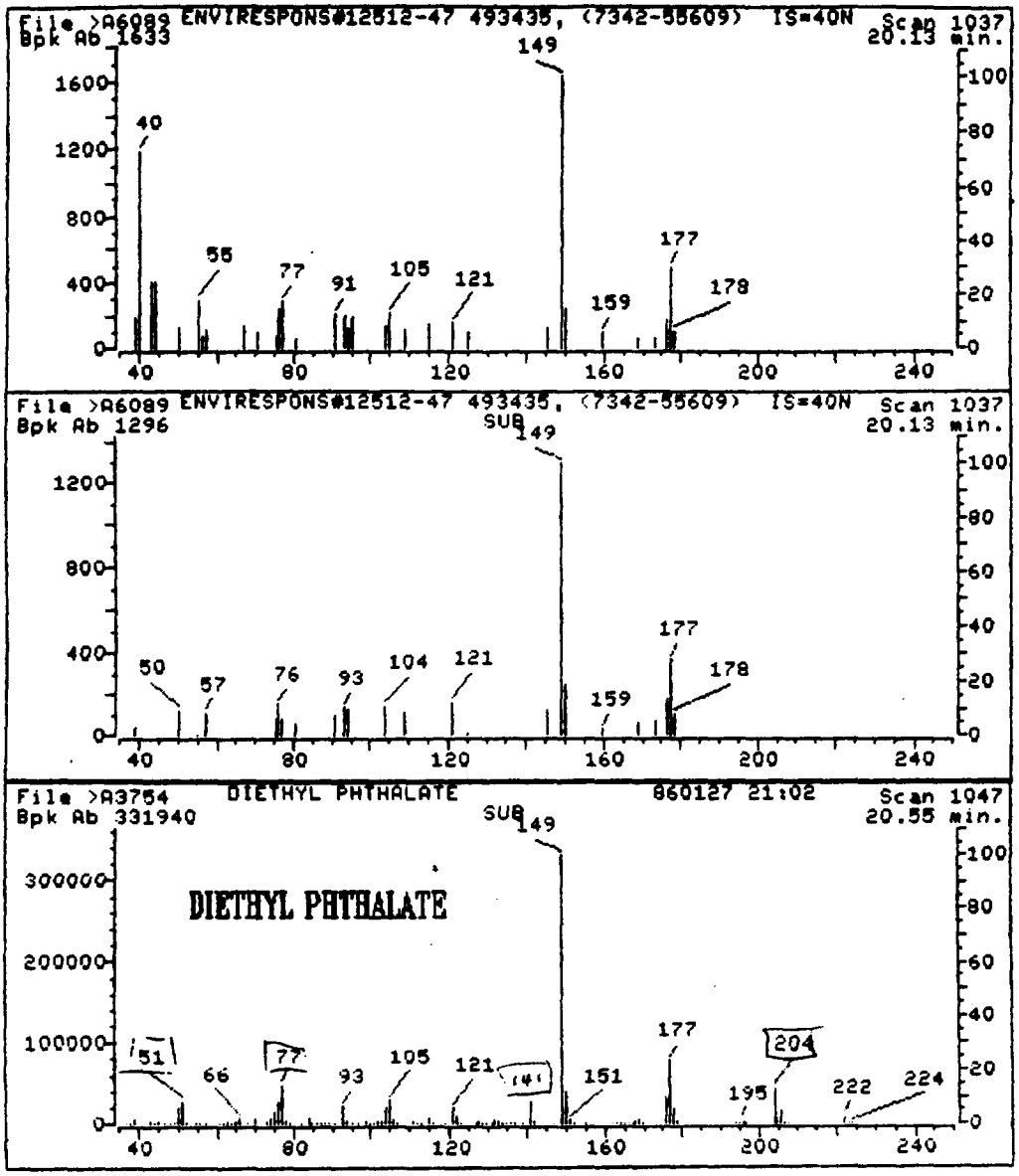
Operator ID: MIKE Quant Rev: 4 Quant Time: 860923 03:36
Output File: ^A6089::AQ Injected at: 860923 02:50
Data File: >A6089::DD Dilution Factor: 2.000
Name: ENVIRESPONS#12512-47
Misc: 493435, (7342-55609) IS=40NG(20UL#41005) BTL# 4

ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860922 22:34

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-D4 (IS)	9.39	381	91400	40.00	ug/L	92
16)	2-FLUOROPHENOL (SS)	6.43	200	180242	109.07	ug/L	93
17)	PHENOL-D5 (SS)	8.77	343	150057	76.18	ug/L	88
18)	*NAPHTHALENE-D8 (IS)	12.98	600	307662	40.00	ug/L	100
32)	NITROBENZENE-D5 (SS)	11.01	480	111577	69.93	ug/L	84
33)	*ACENAPHTHENE-D10(IS)	18.36	929	112502	40.00	ug/L	92
48)	DIETHYL PHTHALATE	20.13	1037	5412	3.20	ug/L	90
52)	2-FLUOROBIPHENYL (SS)	16.43	811	146954	69.11	ug/L	100
53)	2,4,6-TRIBROMOPHENOL (SS)	20.82	1079	27294	135.03	ug/L	100
54)	*PHENANTHRENE-D10 (IS)	22.87	1204	117144	40.00	ug/L	100
64)	*CHRYSENE-D12 (IS)	31.17	1711	26418	40.00	ug/L	100
72)	TERPHENYL-D14 (SS)	28.06	1521	79658	90.30	ug/L	100
73)	*PERYLENE-D12 (IS)	35.33	1965	36614	40.00	ug/L	100

* Compound is ISTD

016-67



m/z = 51, 77, 141, 204 are from 4-chlorophenyl phenyl ether which is coeluting in the STD mix and could not be subtracted away AR

1 of 1

2 2 0786

Laboratory Name: CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

~~Case No~~ Enviresponse

Client:

Sample Number 7344

013-30

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9-18-86

Date Analyzed: 9-23-86 (A6090)

Conc/Dil Factor: 1

Percent Moisture (Decanted) NA

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☑Yes

Continuous Liquid - Liquid Extraction ☐Yes

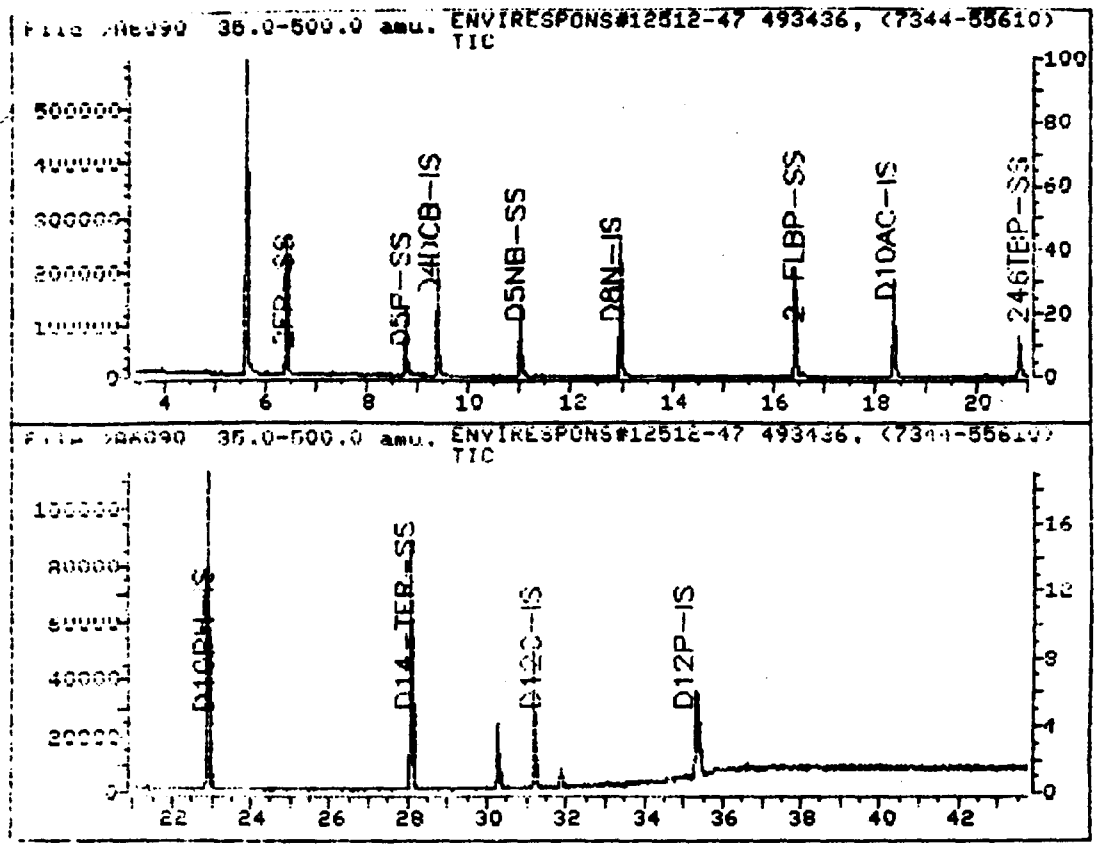
CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	11 N
108-95-2	Phenol	10 u
111-44-4	bis(-2-Chloroethyl)Ether	10 u
95-57-8	2-Chlorophenol	10 u
541-73-1	1, 3-Dichlorobenzene	10 u
106-46-7	1, 4-Dichlorobenzene	10 u
95-50-1	1, 2-Dichlorobenzene	10 u
39638-32-9	bis(2-chloroisopropyl)Ether	10 u
621-64-7	N-Nitroso-Di-n-Propylamine	10 u
67-72-1	Hexachloroethane	10 u
98-95-3	Nitrobenzene	10 u
78-59-1	Isophorone	10 u
88-75-5	2-Nitrophenol	10 u
105-67-9	2, 4-Dimethylphenol	10 u
111-91-1	bis(-2-Chloroethoxy)Methane	10 u
120-83-2	2, 4-Dichlorophenol	10 u
120-82-1	1, 2, 4-Trichlorobenzene	10 u
91-20-3	Naphthalene	10 u
87-68-3	Hexachlorobutadiene	10 u
59-50-7	4-Chloro-3-Methylphenol	10 u
77-47-4	Hexachlorocyclopentadiene	10 u
88-06-2	2, 4, 6-Trichlorophenol	10 u
91-58-7	2-Chloronaphthalene	10 u
131-11-3	Dimethyl Phthalate	10 u
208-96-8	Acenaphthylene	10 u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	10 u
51-28-5	2, 4-Dinitrophenol	50 u
100-02-7	4-Nitrophenol	50 u
121-14-2	2, 4-Dinitrotoluene	10 u
606-20-2	2, 6-Dinitrotoluene	10 u
84-66-2	Diethylphthalate	2 J B
7005-72-3	4-Chlorophenyl-phenylether	10 u
86-73-7	Fluorene	10 u
534-52-1	4, 6-Dinitro-2-Methylphenol	50 u
86-30-6	N-Nitrosodiphenylamine (1)	10 u
101-55-3	4-Bromophenyl-phenylether	10 u
118-74-1	Hexachlorobenzene	10 u
87-86-5	Pentachlorophenol	50 u
85-01-8	Phenanthrene	10 u
120-12-7	Anthracene	10 u
84-74-2	Di-n-Butylphthalate	10 u
206-44-0	Fluoranthene	10 u
92-87-5	Benzidine	160 N
129-00-0	Pyrene	10 u
85-68-7	Butylbenzylphthalate	10 u
91-94-1	3, 3'-Dichlorobenzidine	28 N
56-55-3	Benzo(a)Anthracene	10 u
117-81-7	bis(2-Ethylhexyl)Phthalate	10
218-01-9	Chrysene	10 u
117-84-0	Di-n-Octyl Phthalate	10 u
205-99-2	Benzo(b)Fluoranthene	11 N
207-08-9	Benzo(k)Fluoranthene	10 u
50-32-8	Benzo(a)Pyrene	10 u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	13 N
53-70-3	Dibenz(a, h)Anthracene	16 N
191-24-2	Benzo(g, h, i)Perylene	17 N

(1)-Cannot be separated from diphenylamine

Form I

014-21



MS data file header from : >A6090

Sample: ENVIRESPONS#12512-47 Operator: MIKE MS 9/23/86 1:48
Misc : 493436, (7344-55610) IS=40NG(20UL#41005) Bill# 5
Sys. #: 1A MS model: 87 SW/HW rev.: 1A ALS # : 0
Method File: BNAME1 Tuning File: BNA1U1 No. of extra records: 1
Source temp.: 275 Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	2.0	8.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

015-21

QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860923 04:34
Output File: ^A6090::AQ Injected at: 860923 03:48
Data File: >A6090::DD Dilution Factor: 2.000
Name: ENVIRESPONS#12512-47
Misc: 493436, (7344-55610) IS=40NG(20UL#41005) BTL# 5

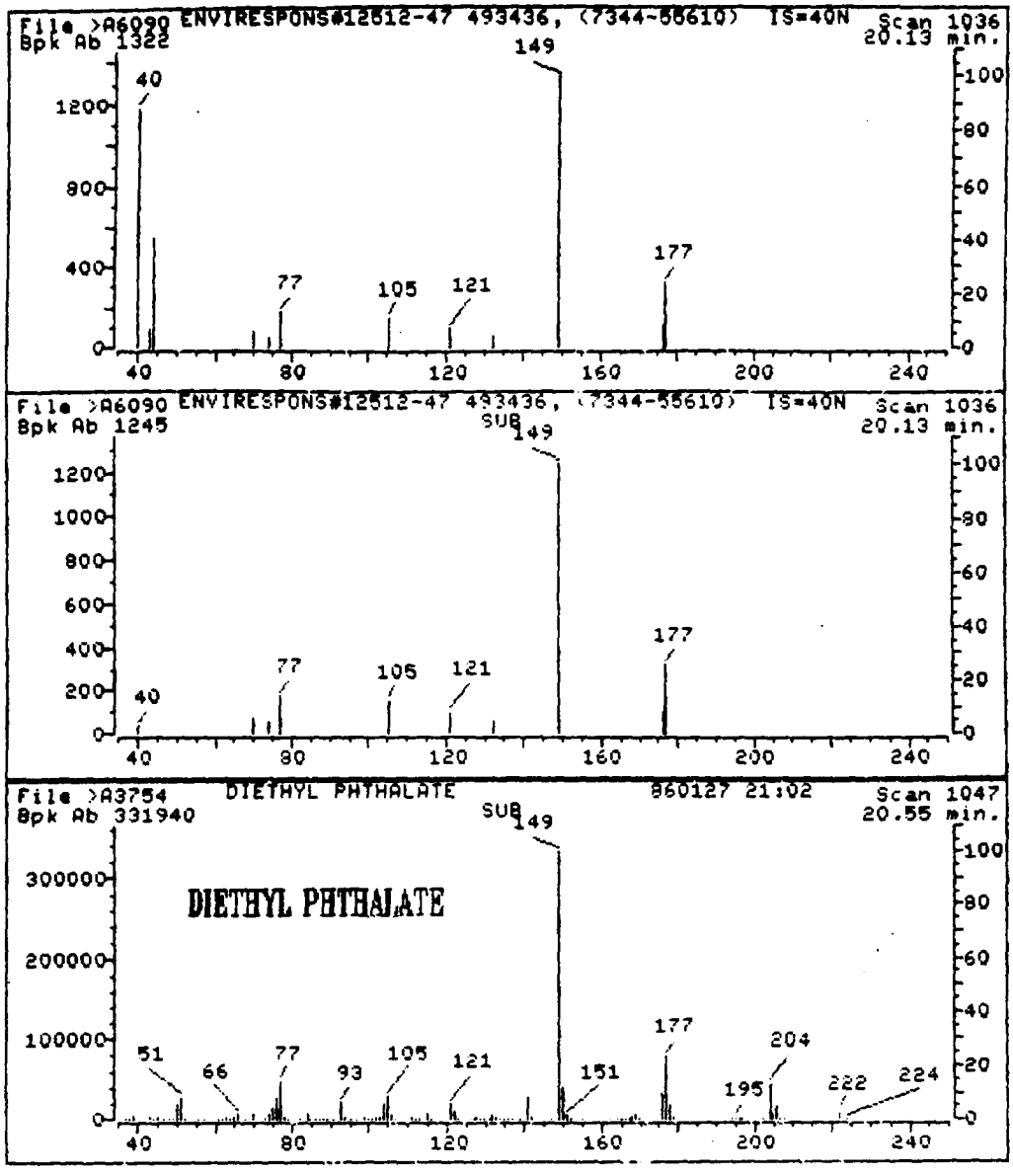
ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860922 22:34

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-D4 (IS)	9.39	379	89528	40.00	ug/L	82
16)	2-FLUOROPHENOL (SS)	6.43	198	167253	103.33	ug/L	97
17)	PHENOL-D5 (SS)	8.77	341	140848	73.00	ug/L	96
18)	*NAPHTHALENE-D8 (IS)	12.99	599	303023	40.00	ug/L	100
32)	NITROBENZENE-D5 (SS)	11.03	479	132331	84.21	ug/L	77
33)	*ACENAPHTHENE-D10(IS)	18.37	928	120981	40.00	ug/L	93
48)	DIETHYL PHTHALATE	20.13	1036	4187	2.30	ug/L	98
52)	2-FLUOROBIPHENYL (SS)	16.44	810	179001	78.28	ug/L	100
53)	2,4,6-TRIBROMOPHENOL (SS)	20.84	1079	25367	116.70	ug/L	100
54)	*PHENANTHRENE-D10 (IS)	22.88	1204	133838	40.00	ug/L	100
64)	*CHRYSENE-D12 (IS)	31.17	1711	29144	40.00	ug/L	100
70)	BIS(2-ETHYLHEXYL) PHTHALATE	31.86	1753	7531	10.46	ug/L	92
72)	TERPHENYL-D14 (SS)	28.07	1521	97239	99.92	ug/L	100
73)	*PERYLENE-D12 (IS)	35.33	1965	41254	40.00	ug/L	100

* Compound is ISTD

JK

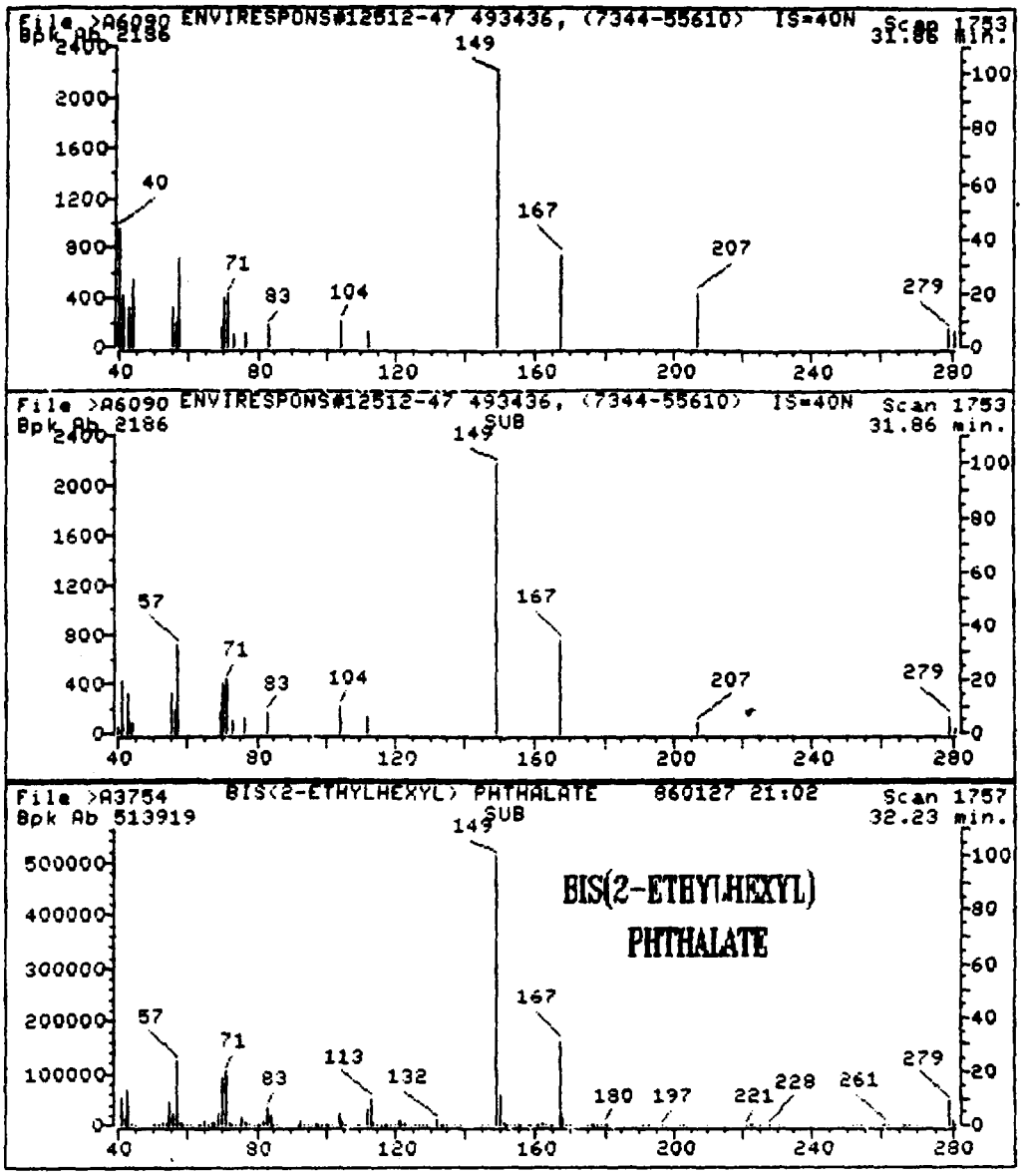
016-71



m/z = 51, 77, 141, 204 are from 4-chlorophenyl phenyl ether which is eluting in the STD mix and could not be extracted away. AS

1 of 1

016-72


File >A6090 ENVIRESPONS#12512-47 493436, (7344-55610) IS=40N Scan 1753
Bpk Ab 2186 31.86 min.
149
40
167
207
71
83
104
279
File >A6090 ENVIRESPONS#12512-47 493436, (7344-55610) IS=40N Scan 1753
Bpk Ab 2186 SUB 31.86 min.
149
57
167
71
83
104
207
279
File >A3754 BIS(2-ETHYLHEXYL) PHTHALATE 860127 21:02 Scan 1757
Bpk Ab 513919 SUB 32.23 min.
149
BIS(2-ETHYLHEXYL)
PHTHALATE
167
57
71
113
83
132
180
197
221
228
261
279

2 2 0791

Laboratory Name: CLAYTON ENVIRONMENTAL CONSULTANTS, INC.
Client Case No: Enviresponse

Sample Number
7345

013-33

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 9-18-86
Date Analyzed: 9-24-86
Conc/Dil Factor: 1
Percent Moisture (Decanted) NA

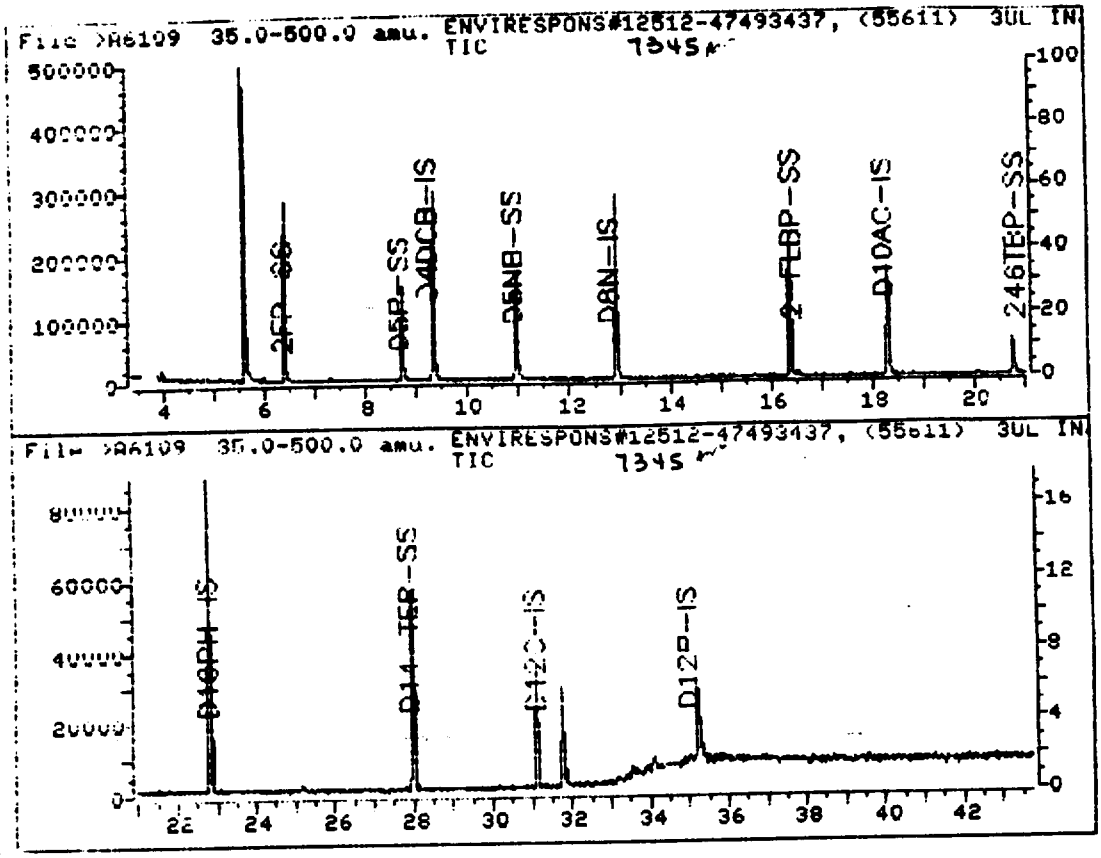
GPC Cleanup ☐Yes ☑No
Separatory Funnel Extraction ☑Yes
Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	11 N
108-95-2	Phenol	10 u
111-44-4	bis(-2-Chloroethyl)Ether	10 u
95-57-8	2-Chlorophenol	10 u
541-73-1	1, 3-Dichlorobenzene	10 u
106-46-7	1, 4-Dichlorobenzene	10 u
95-50-1	1, 2-Dichlorobenzene	10 u
39638-32-9	bis(2-chloroisopropyl)Ether	10 u
621-64-7	N-Nitroso-Di-n-Propylamine	10 u
67-72-1	Hexachloroethane	10 u
98-95-3	Nitrobenzene	10 u
78-59-1	Isophorone	10 u
88-75-5	2-Nitrophenol	10 u
105-67-9	2, 4-Dimethylphenol	10 u
111-91-1	bis(-2-Chloroethoxy)Methane	10 u
120-83-2	2, 4-Dichlorophenol	10 u
120-82-1	1 2, 4-Trichlorobenzene	10 u
91-20-3	Naphthalene	10 u
87-68-3	Hexachlorobutadiene	10 u
59-50-7	4-Chloro-3-Methylphenol	10 u
77-47-4	Hexachlorocyclopentadiene	10 u
88-06-2	2, 4 6-Trichlorophenol	10 u
91-58-7	2-Chloronaphthalene	10 u
131-11-3	Dimethyl Phthalate	10 u
208-96-8	Acenaphthylene	10 u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	10 u
51-28-5	2, 4-Dinitrophenol	50 u
100-02-7	4-Nitrophenol	50 u
121-14-2	2, 4-Dinitrotoluene	10 u
606-20-2	2, 6-Dinitrotoluene	10 u
84-66-2	Diethylphthalate	10 u
7005-72-3	4-Chlorophenyl-phenylether	10 u
86-73-7	Fluorene	10 u
534-52-1	4, 6-Dinitro-2-Methylphenol	50 u
86-30-6	N-Nitrosodiphenylamine (1)	10 u
101-55-3	4-Bromophenyl-phenylether	10 u
118-74-1	Hexachlorobenzene	10 u
87-86-5	Pentachlorophenol	50 u
85-01-8	Phenanthrene	10 u
120-12-7	Anthracene	10 u
84-74-2	Di-n-Butylphthalate	2 J
206-44-0	Fluoranthene	10 u
92-87-5	Benzidine	160 N
129-00-0	Pyrene	10 u
85-68-7	Butylbenzylphthalate	10 u
91-94-1	3, 3'-Dichlorobenzidine	28 N
56-55-3	Benzo(a)Anthracene	10 u
117-81-7	bis(2-Ethylhexyl)Phthalate	7 J
218-01-9	Chrysene	10 u
117-84-0	Di-n-Octyl Phthalate	10 u
205-99-2	Benzo(b)Fluoranthene	11 N
207-08-9	Benzo(k)Fluoranthene	10 u
50-32-8	Benzo(a)Pyrene	10 u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	13 N
53-70-3	Dibenzo(a, h)Anthracene	16 N
191-24-2	Benzo(g, h, i)Perylene	17 N

(1)-Cannot be separated from diphenylamine

014-23



MS data file header from : >A6109

7345

Sample: ENVIRESPONS#12512-47 Operator: MIKE MS 9/24/86 14:45
Mass : 493437, (55611) 3UL INJ. IS=40NG(20UL #41005) BTL# 1
Sys. #: 1A MS model: 32 SW/HW rev.: 1A ALS # : 0
Method File: BNAME1 Tuning file: BNAIU1 No. of extra records: 1
Source temp.: 225 Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	2.0	8.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

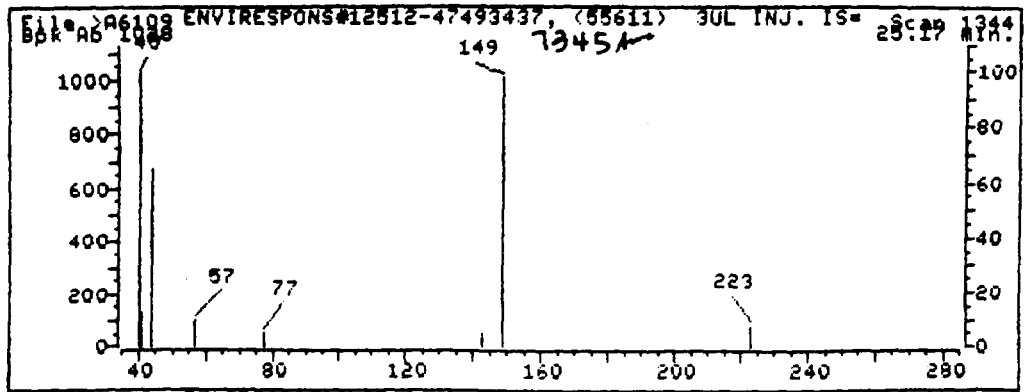
QUANT REPORT

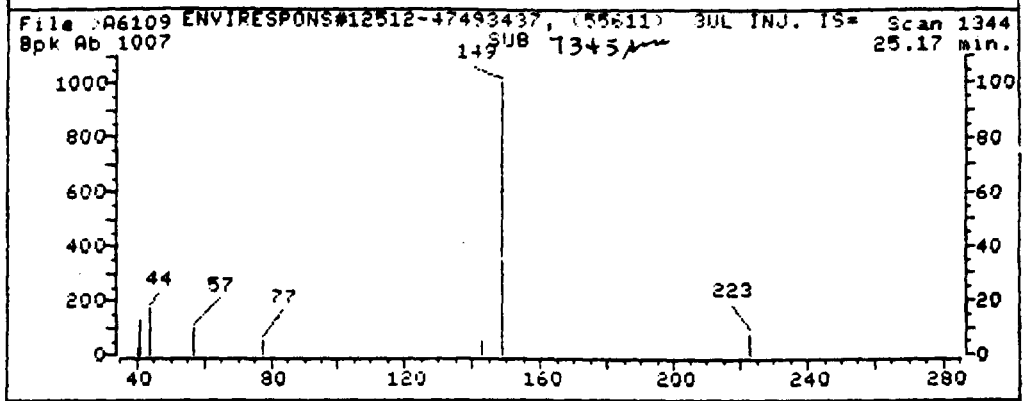
Operator ID: MIKE Quant Rev: 4 Quant Time: 860924 15:32
Output File: ^A6109::AQ Injected at: 860924 14:45
Data File: >A6109::DD Dilution Factor: 2.000
Name: ENVIRESPONS#12512-47,1 34
Misc: 493437, (55611) 3UL INJ. IS=40NG(20UL#41005) BTL# 1

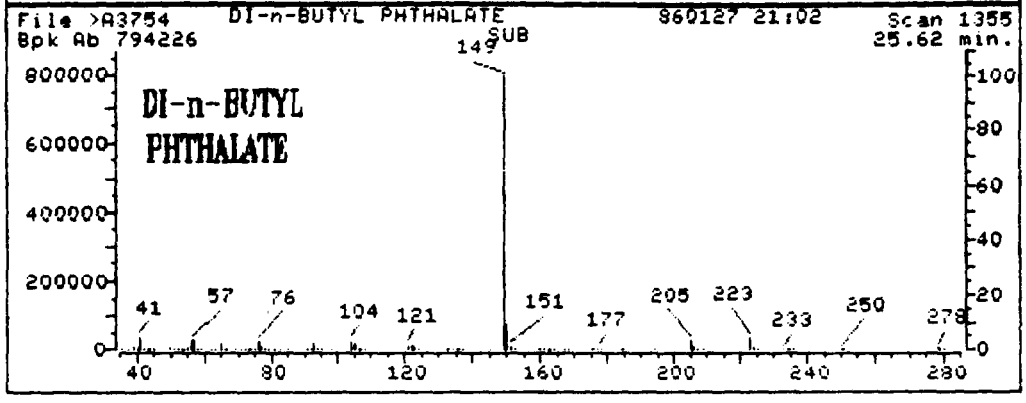
ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860924 09:42

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-D4 (IS)	9.35	377	111658	40.00	ug/L	82
16)	2-FLUOROPHENOL (SS)	6.41	197	178390	94.75	ug/L	85
17)	PHENOL-D5 (SS)	8.73	339	137316	59.34	ug/L	88
18)	*NAPHTHALENE-D8 (IS)	12.93	596	343061	40.00	ug/L	100
32)	NITROBENZENE-D5 (SS)	10.97	476	161929	89.75	ug/L	79
33)	*ACENAPHTHENE-D10(IS)	18.30	924	107517	40.00	ug/L	94
52)	2-FLUOROBIPHENYL (SS)	16.37	806	180867	87.05	ug/L	100
53)	2,4,6-TRIBROMOPHENOL (SS)	20.75	1074	18498	124.05	ug/L	100
54)	*PHENANTHRENE-D10 (IS)	22.80	1199	105602	40.00	ug/L	100
62)	DI-n-BUTYL PHTHALATE	25.17	1344	2996	2.36	ug/L	100
64)	*CHRYSENE-D12 (IS)	31.07	1705	18835	40.00	ug/L	100
70)	BIS(2-ETHYLHEXYL) PHTHALATE	31.77	1748	26385	71.83	ug/L	99
72)	TERPHENYL-D14 (SS)	27.96	1515	67580	83.94	ug/L	100
73)	*PERYLENE-D12 (IS)	35.23	1959	28316	40.00	ug/L	100

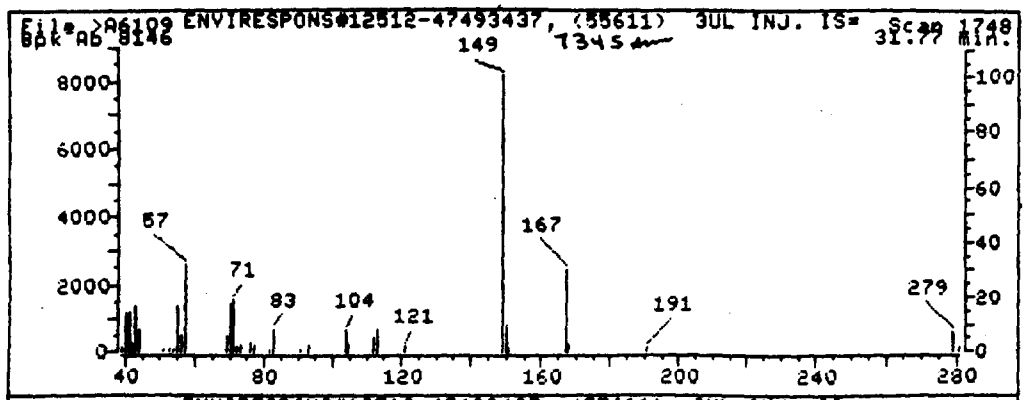
* Compound is ISTD

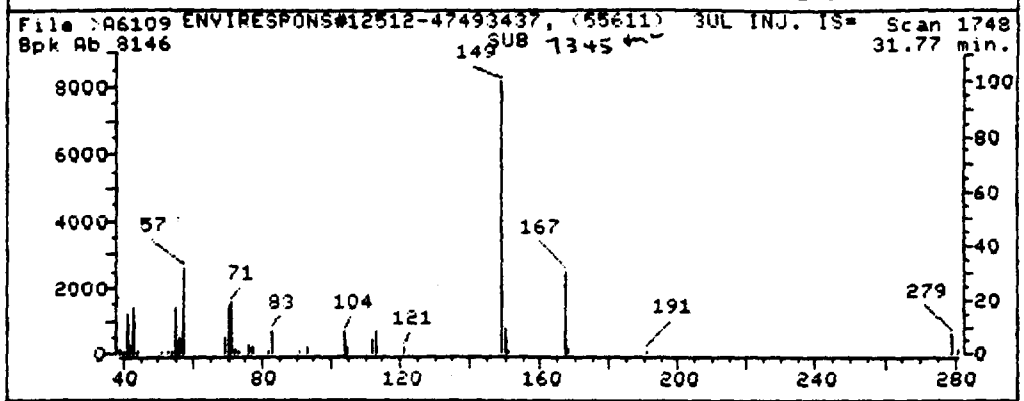

File >A6109 ENVIRESPONS#12512-47493437, (55611) 3UL INJ. IS= Scan 1344
Bpk Ab 1008
25.17 min.
149
7345
57
77
223

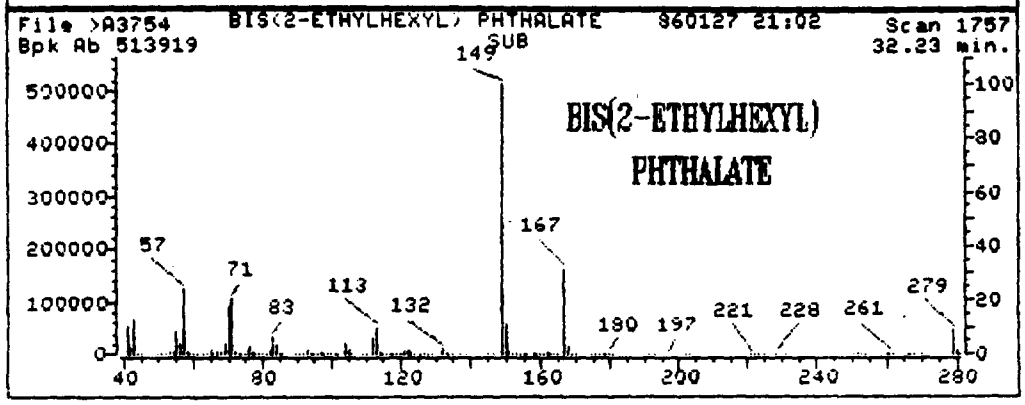

File >A6109 ENVIRESPONS#12512-47493437, (55611) 3UL INJ. IS= Scan 1344
Bpk Ab 1007
25.17 min.
149
SUB
7345
44
57
77
223


File >A3754 DI-n-BUTYL PHTHALATE 860127 21:02 Scan 1355
Bpk Ab 794226
25.62 min.
149
SUB
DI-n-BUTYL
PHTHALATE
41
57
76
104
121
151
177
205
223
233
250
278

016-77


File >A6109 ENVIRESPONS#12512-47493437, (55611) 3UL INJ. IS= Scan 1748
Bpk Ab 8146
31.77 min.
7345
149
57
71
83
104
121
167
191
279


File >A6109 ENVIRESPONS#12512-47493437, (55611) 3UL INJ. IS= Scan 1748
Bpk Ab 8146
31.77 min.
SUB 7345
149
57
71
83
104
121
167
191
279


File >A3754 BIS(2-ETHYLHEXYL) PHTHALATE 860127 21:02 Scan 1757
Bpk Ab 513919
32.23 min.
SUB
149
BIS(2-ETHYLHEXYL)
PHTHALATE
57
71
83
113
132
167
180
197
221
228
261
279

2 2 0796

Laboratory Name: CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

~~Case No~~: Enviresponse
Client

Sample Number
7346

013-36

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9/18/86

Date Analyzed: 9/22/86 (A6082)

Conc/Dil Factor: 1

Percent Moisture (Decanted) NA

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☒Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	15 N
108-95-2	Phenol	13 U
111-44-4	bis(-2-Chloroethyl)Ether	13 U
95-57-8	2-Chlorophenol	13 U
541-73-1	1, 3-Dichlorobenzene	13 U
106-46-7	1, 4-Dichlorobenzene	13 U
95-50-1	1, 2-Dichlorobenzene	13 U
39638-32-9	bis(2-chloroisopropyl)Ether	13 U
621-64-7	N-Nitroso-Di-n-Propylamine	13 U
67-72-1	Hexachloroethane	13 U
98-95-3	Nitrobenzene	13 U
78-59-1	Isophorone	13 U
88-75-5	2-Nitrophenol	13 U
105-67-9	2, 4-Dimethylphenol	13 U
111-91-1	bis(-2-Chloroethoxy)Methane	13 U
120-83-2	2, 4-Dichlorophenol	13 U
120-82-1	1, 2, 4-Trichlorobenzene	13 U
91-20-3	Naphthalene	13 U
87-68-3	Hexachlorobutadiene	13 U
59-50-7	4-Chloro-3-Methylphenol	13 U
77-47-4	Hexachlorocyclopentadiene	13 U
88-06-2	2, 4, 6-Trichlorophenol	13 U
91-58-7	2-Chloronaphthalene	13 U
131-11-3	Dimethyl Phthalate	13 U
208-96-8	Acenaphthylene	13 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	13 U
51-28-5	2, 4-Dinitrophenol	66 U
100-02-7	4-Nitrophenol	66 U
121-14-2	2, 4-Dinitrotoluene	13 U
606-20-2	2, 6-Dinitrotoluene	13 U
84-66-2	Diethylphthalate	2 J, B
7005-72-3	4-Chlorophenyl-phenylether	13 U
86-73-7	Fluorene	13 U
534-52-1	4, 6-Dinitro-2-Methylphenol	66 U
86-30-6	N-Nitrosodiphenylamine (1)	13 U
101-55-3	4-Bromophenyl-phenylether	13 U
118-74-1	Hexachlorobenzene	13 U
87-86-5	Pentachlorophenol	66 U
85-01-8	Phenanthrene	13 U
120-12-7	Anthracene	13 U
84-74-2	Di-n-Butylphthalate	13 U
206-44-0	Fluoranthene	13 U
92-87-5	Benzidine	210 N
129-00-0	Pyrene	13 U
85-68-7	Butylbenzylphthalate	13 U
91-94-1	3, 3'-Dichlorobenzidine	37 N
56-55-3	Benzo(a)Anthracene	13 U
117-81-7	bis(2-Ethylhexyl)Phthalate	13 U
218-01-9	Chrysene	13 U
117-84-0	Di-n-Octyl Phthalate	13 U
205-99-2	Benzo(b)Fluoranthene	15 N
207-08-9	Benzo(k)Fluoranthene	13 U
50-32-8	Benzo(a)Pyrene	13 U
193-39-5	Indeno(1, 2, 3-cd)Pyrene	17 N
53-70-3	Dibenz(a, h)Anthracene	21 N
191-24-2	Benzo(g, h, i)Perylene	23 N

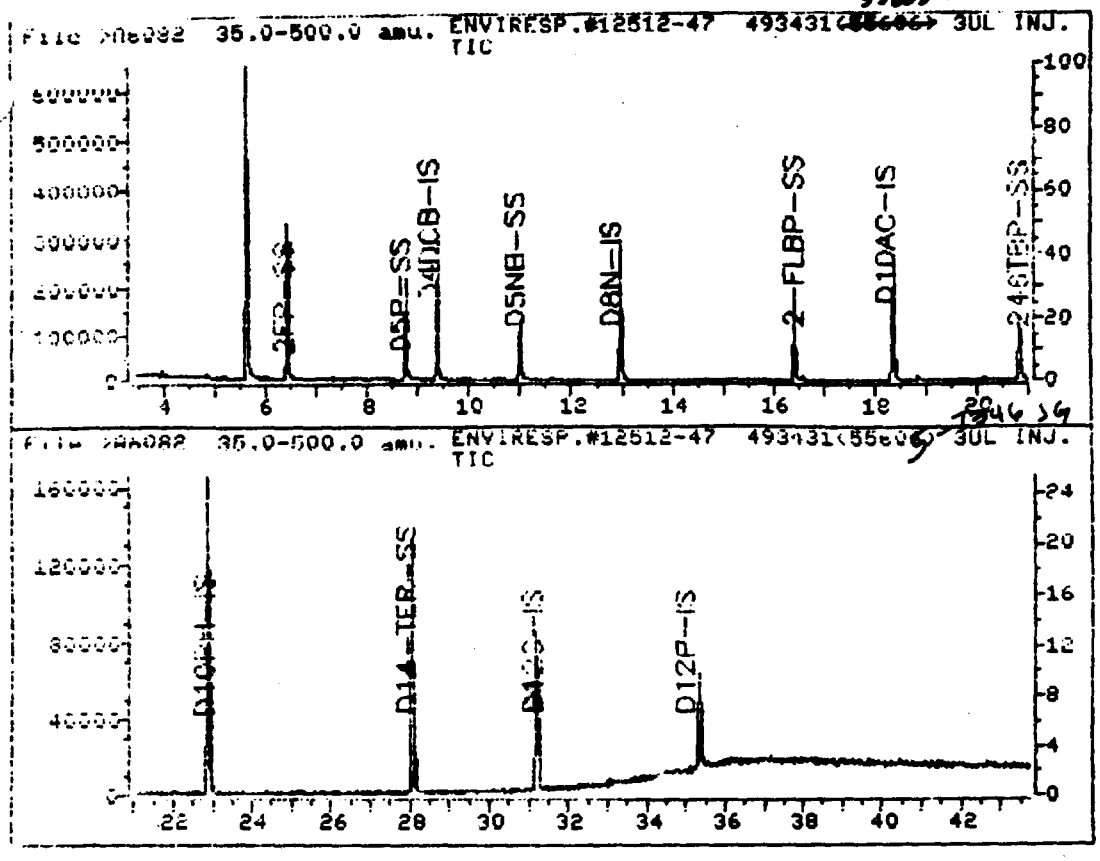
(1)-Cannot be separated from diphenylamine

Form I

2 2 0797

014-25

7346 JG
55605 MW 9/25



MS data file header from : >A6082

Sample: ENVIRESP.#12512-47 JG Operator: MIKE MS 9/22/86 18:21
Mine : 493431(55606) 3UL INJ. IS=40NG(#41005;20UL) BTL# 5
Sys. #: 1A MS model: 87 SW/HW rev.: CA AES # : 0
Method file: BNAME1 Tuning file: BNATU1 No. of extra records: 1
Source temp.: 225 Analyzer temp.: 250 Transfer line temp. : 250

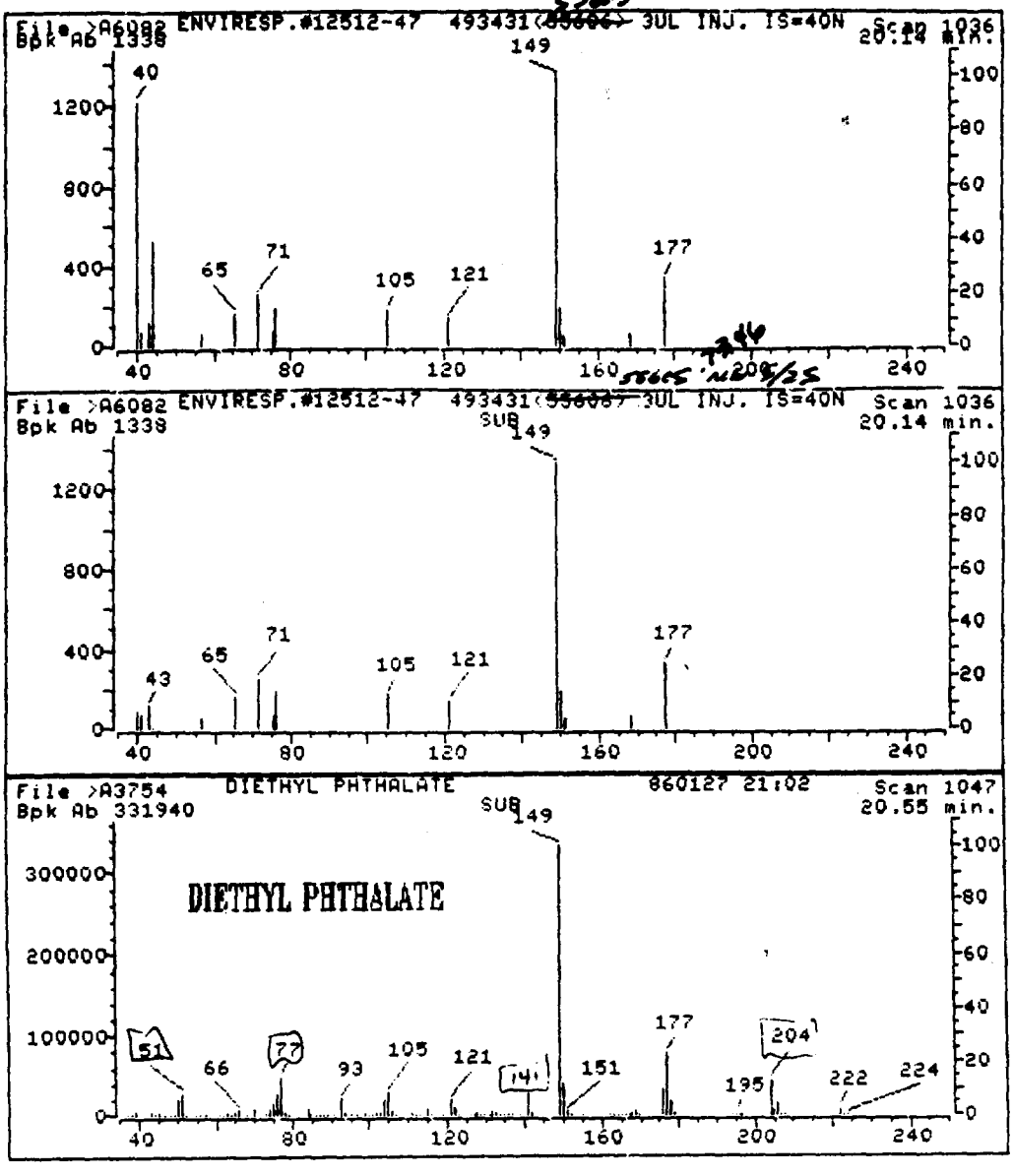
Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	2.0	8.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860922 19:07
Output File: ^A6082::AA Injected at: 860922 18:21
Data File: >A6082::DD Dilution Factor: 2.660
Name: ENVIRESP.#12512-47
Misc: 493431(~~55606~~ 55605 MW/9-25-86 3UL INJ. IS=40NG(#41005;20UL) BTL# 5
ID File: BNAID1::PS 7946 39
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860922 13:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-D4 (IS)	9.39	379	108249	40.00	ug/L	83
16)	2-FLUOROPHENOL (SS)	6.43	198	226116	163.90	ug/L	99
17)	PHENOL-D5 (SS)	8.77	341	198395	124.59	ug/L	91
18)	*NAPHTHALENE-D8 (IS)	12.97	598	359339	40.00	ug/L	100
32)	NITROBENZENE-D5 (SS)	11.01	478	126229	95.30	ug/L	82
33)	*ACENAPHTHENE-D10(IS)	18.35	927	158955	40.00	ug/L	95
48)	DIETHYL PHTHALATE	20.14	1036	3664	2.21	ug/L	99
52)	2-FLUOROBIPHENYL (SS)	16.42	809	169497	76.00	ug/L	100
53)	2,4,6-TRIBROMOPHENOL (SS)	20.82	1078	46087	254.54	ug/L	100
54)	*PHENANTHRENE-D10 (IS)	22.87	1203	207625	40.00	ug/L	100
64)	*CHRYSENE-D12 (IS)	31.16	1710	46218	40.00	ug/L	100
72)	TERPHENYL-D14 (SS)	28.05	1520	149146	121.29	ug/L	100
73)	*PERYLENE-D12 (IS)	35.33	1964	64507	40.00	ug/L	100

* Compound is ISTD



m/z = 51, 77, 141, 204 are from 4-chlorophenyl phenyl et which is coeluting in the STD mix and could not be subtracted away. A

2 2 0800

Sample Number
7353

013-38

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Clayton Environmental
Client: Case No: Enviresponse
Lab Sample ID No: B5138(493414)
QC Report No: NA
Sample Matrix: Water
Contract No: NA
Data Release Authorized By:
Date Sample Received: 9-18-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 9/22/86
Date Analyzed: 9/22/86
Conc/Dil Factor: 1 pH 6.5
Percent Moisture: (Not Decanted) NA

CAS Number		(ug/l) or ug/Kg (Circle One)
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	3 JB
75-69-4	Trichlorofluoromethane	1 N
75-35-4	1, 1-Dichloroethene	5 U
75-34-3	1, 1-Dichloroethane	5 U
156-60-5	Trans-1, 2-Dichloroethene	5 U
67-66-3	Chloroform	5 U
107-06-2	1, 2-Dichloroethane	5 U
71-55-6	1, 1, 1-Trichloroethane	5 U
56-23-5	Carbon Tetrachloride	5 U
75-27-4	Bromodichloromethane	5 U

CAS Number		(ug/l) or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	7 N
10061-02-6	Trans-1, 3-Dichloropropene	5 U
79-01-6	Trichloroethene	5 U
124-48-1	Dibromochloromethane	5 U
79-00-5	1, 1, 2-Trichloroethane	5 U
71-43-2	Benzene	5 U
10061-01-5	cis-1, 3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U
75-25-2	Bromoform	5 U
127-18-4	Tetrachloroethene	5 U
79-34-5	1, 1, 2, 2-Tetrachloroethane	5 U
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
541-73-1	1, 3-Dichlorobenzene	15 N
106-46-7	1, 4-Dichlorobenzene	15 N
95-50-1	1, 2-Dichlorobenzene	7 N

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value — If the result is a value greater than or equal to the detection limit, report the value

U — Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J — Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J

C — This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

B — This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action

Other — Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

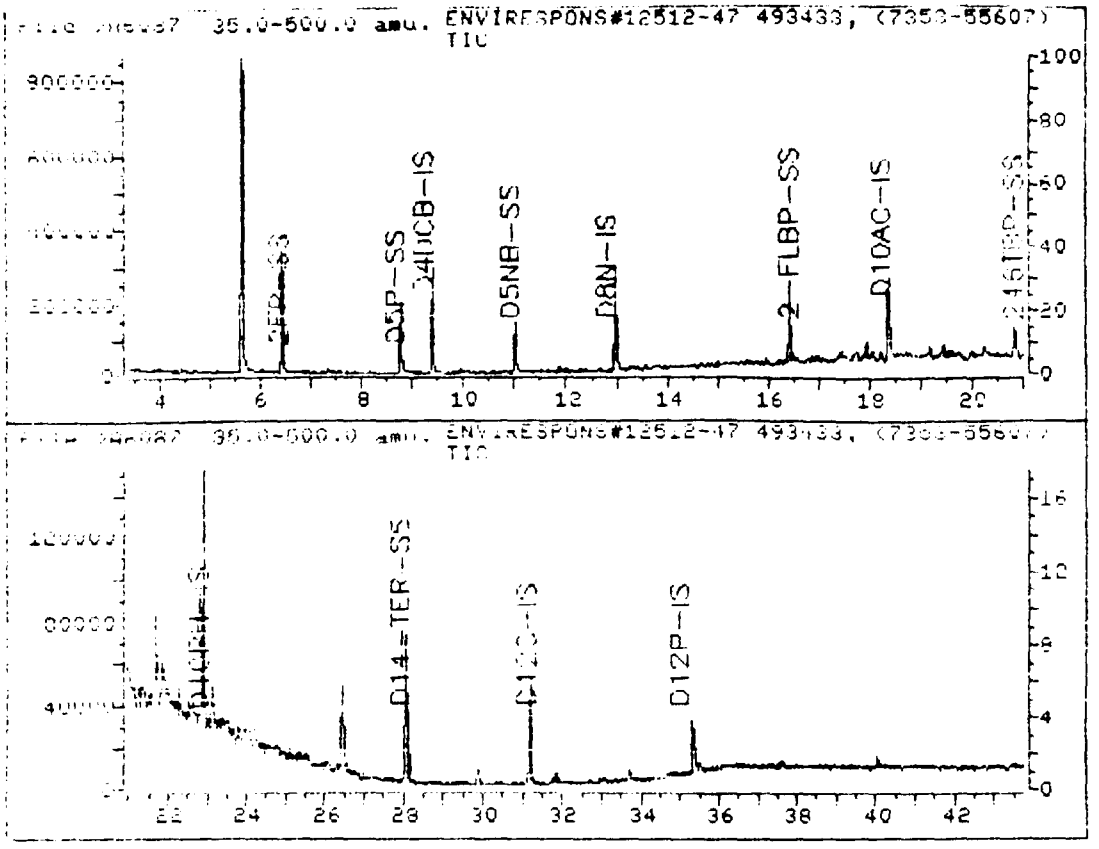
N Matrix spike compound

N Instrument limit of detection

A Indicates a value less than the dilution corrected limit of detection but greater than the CRDL

2 2 0801

014-27



MS data file header from : >A6087

Sample: [illegible] Operator: MIKE [illegible]
Mass : [illegible], (7353-55607) IS=40NG(20UL#41005) BN # 2
Sys. #: 1A MS model: [illegible] SW/HW rev.: [illegible] [illegible] # : [illegible]
Method file: BNSME1 Tuning file: BNATU1 No. of extra records: 1
Source temp.: [illegible] Analyzer temp.: 250 Transfer line temp. : 250

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	2.0	8.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

QUANT REPORT

Operator ID: MIKE Quant Rev: 4 Quant Time: 860923 1:
Output File: ^A6087::AQ Injected at: 860923 0:
Data File: >A6087::DD Dilution Factor: .0
Name: ENVIRESPONS#12512-47
Misc: 493433, (7353-55607) IS=40NG(20UL#41005) BTL# 2

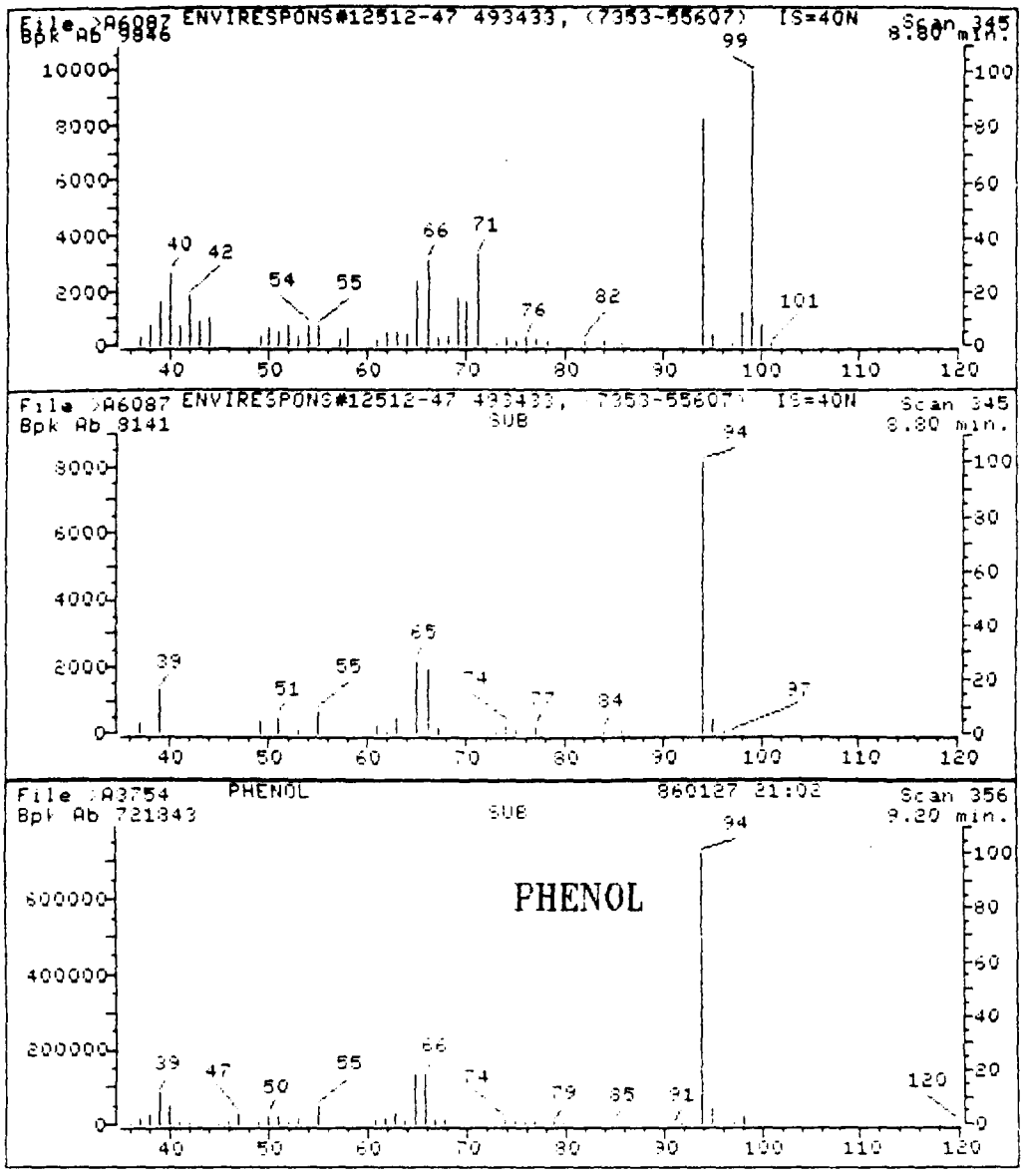
ID File: BNAID1::PS
Title: SEMI-VOLATILE HAZARDOUS SUBSTANCES EPA LIST
Last Calibration: 860922 22:34

	Compound	R.T.	Scan#	Area	Conc	Unit	
1)	*1,4-DICHLOROBENZENE-D4 (IS)	9.39	381	111849	40.00	g/L	4
3)	PHENOL	9.80	345	19814	7.96	g/L	0
16)	2-FLUOROPHENOL (SS)	6.43	200	226300	111.91	g/L	8
17)	PHENOL-D5 (SS)	8.77	343	170765	70.84	g/L	8
18)	*NAPHTHALENE-D8 (IS)	12.98	600	364995	40.00	g/L	0
32)	NITROBENZENE-D5 (SS)	11.01	480	134208	70.91	g/L	3
33)	*ACENAPHTHENE-D10(IS)	18.37	928	139524	40.00	g/L	3
50)	FLUORENE	20.01	1028	6584	3.13	g/L	8
52)	2-FLUOROBIPHENYL (SS)	16.42	810	173560	65.82	g/L	0
53)	2,4,6-TRIBROMOPHENOL (SS)	20.82	1077	29041	115.85	g/L	0
54)	*PHENANTHRENE-D10 (IS)	22.88	1202	144990	40.00	g/L	0
64)	*CHRYSENE-D12 (IS)	31.16	1707	25859	40.00	g/L	0
67)	BUTYLBENZYL PHTHALATE	29.87	1628	5522	11.62	g/L	2
70)	BIS(2-ETHYLHEXYL) PHTHALATE	31.85	1749	6214	9.73	g/L	4
72)	TERPHENYL-D14 (SS)	28.05	1517	79216	91.74	g/L	0
73)	*PERYLENE-D12 (IS)	35.32	1961	34934	40.00	g/L	0
74)	DI-N-OCTYL PHTHALATE	33.70	1862	9137	9.97	g/L	0

* Compound is ISTD

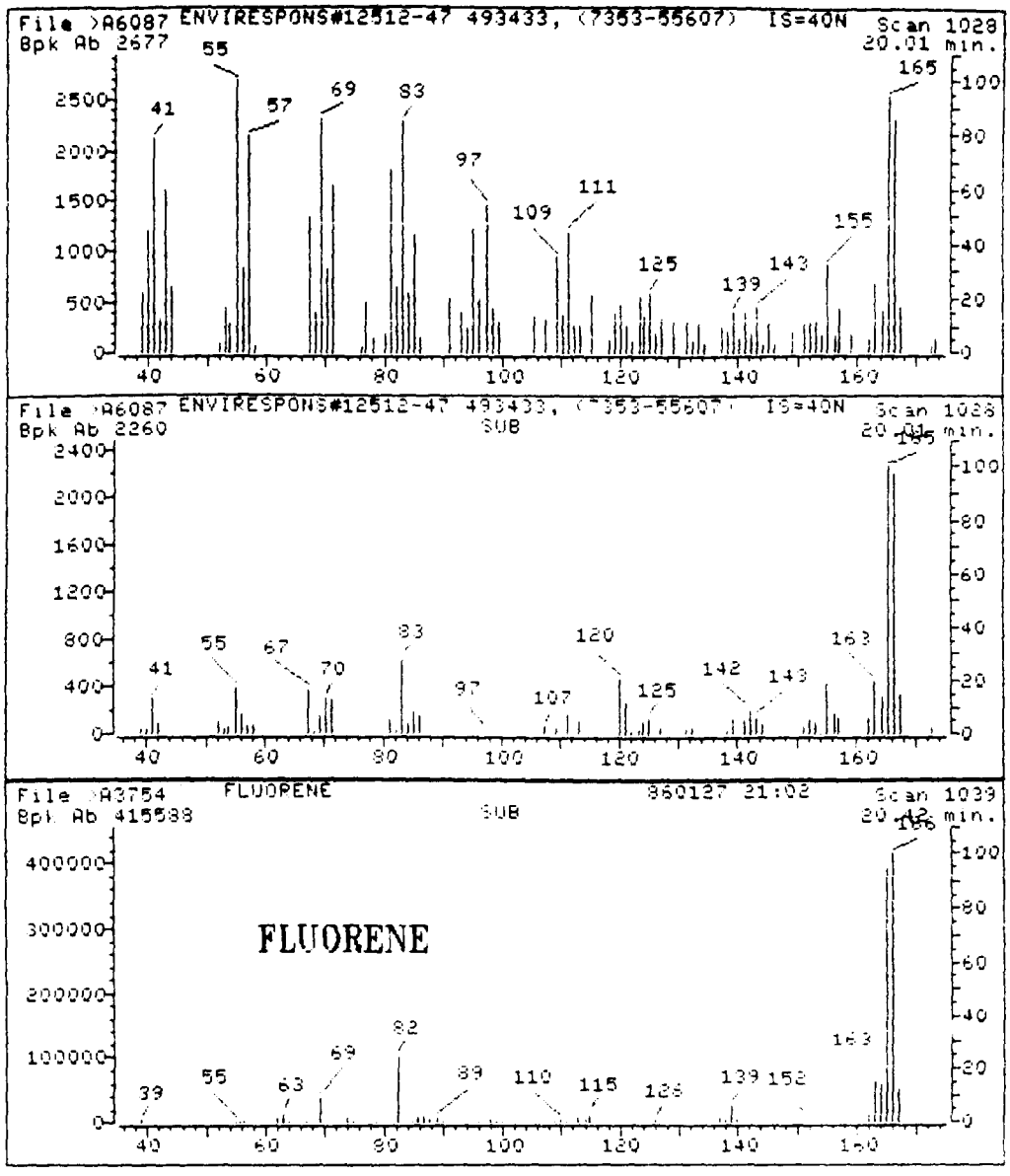
2 2 0803

016-82



2 2 0804

016-83

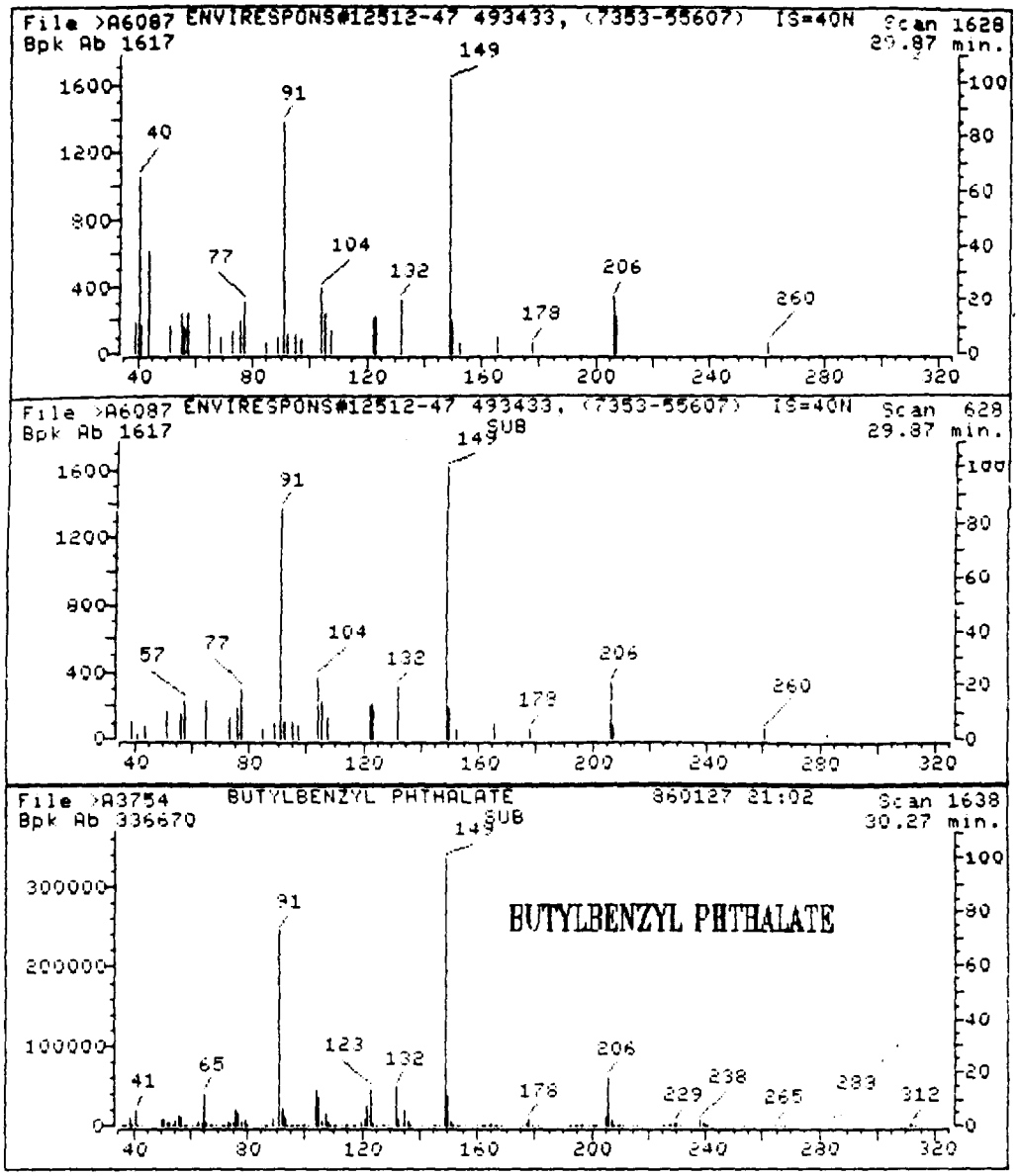


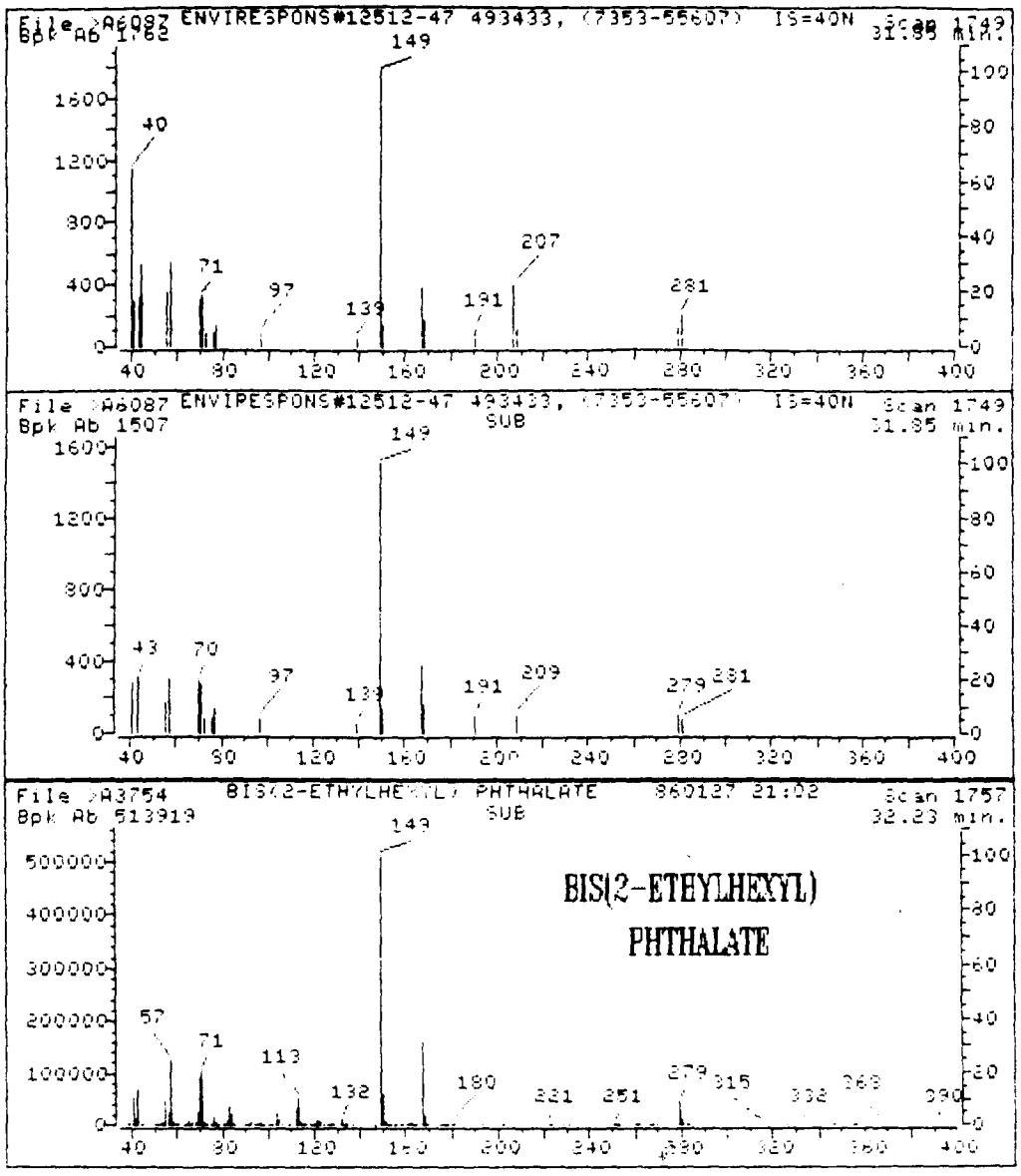
M/Z = 120
IS UNKNOWN

J7

2 2 0805

016-84

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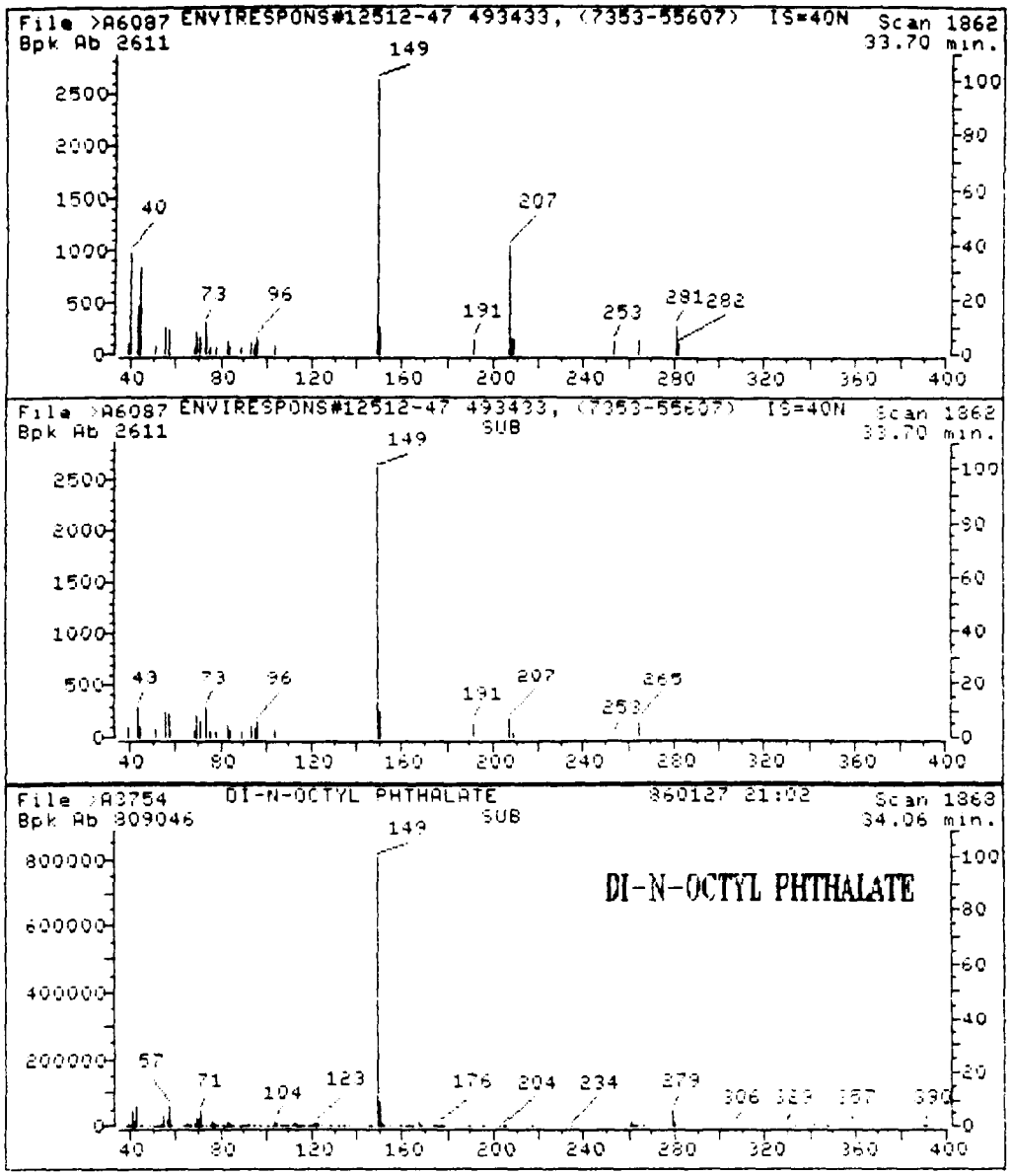
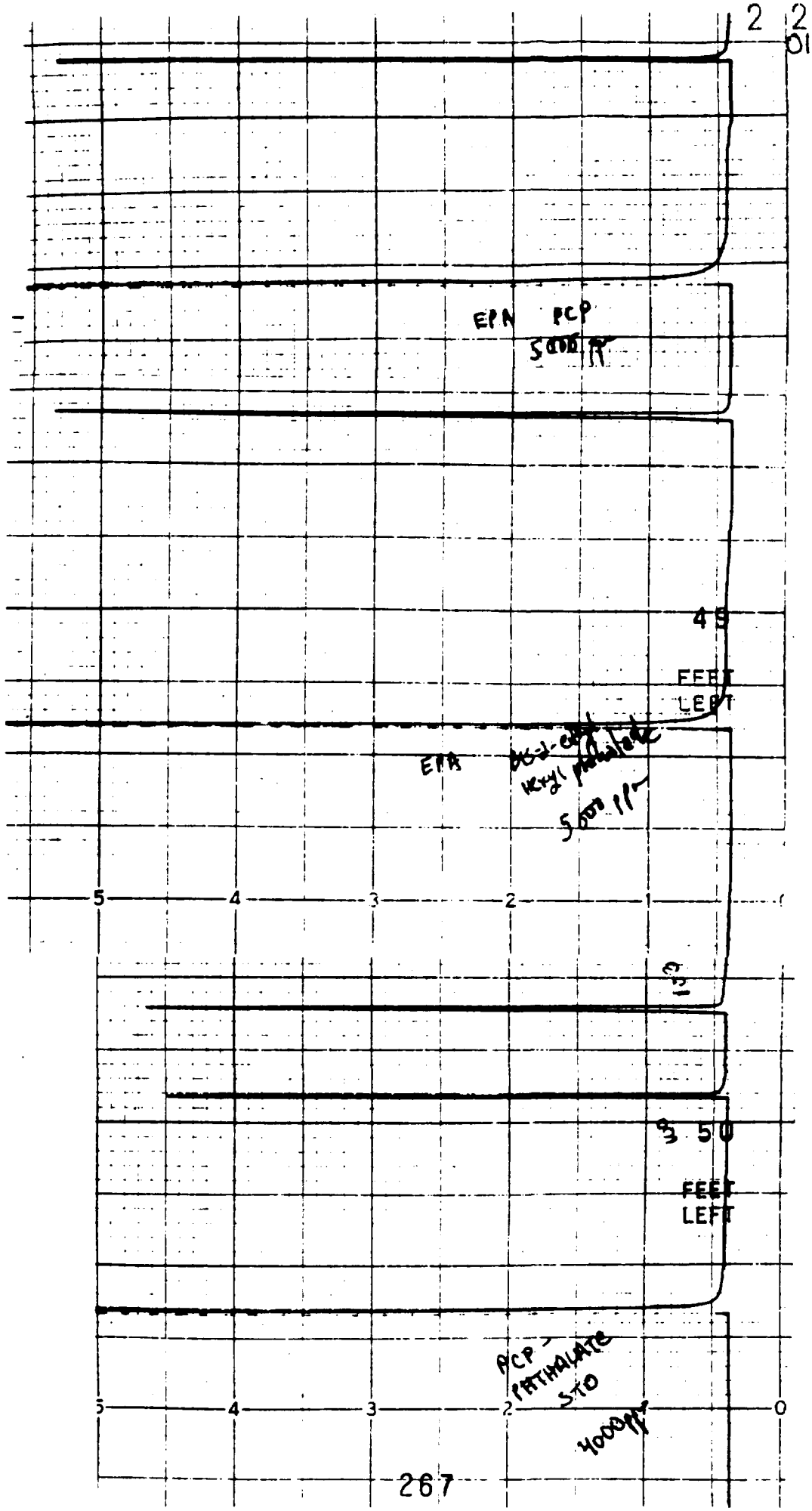
Bpk Ab 1762
31.85 min.
149
40
71
97
139
191
207
281
File >A6087 ENVIRESPONS#12512-47 493433, (7353-556077) IS=40N Scan 1749
Bpk Ab 1507
SUB
31.85 min.
149
43
70
97
139
191
209
279
281
File >A3754 BIS(2-ETHYLHEXYL) PHTHALATE 860127 21:02 Scan 1757
Bpk Ab 513919
SUB
32.23 min.
149
BIS(2-ETHYLHEXYL)
PHTHALATE
57
71
113
132
180
221
251
279
315
332
369
390

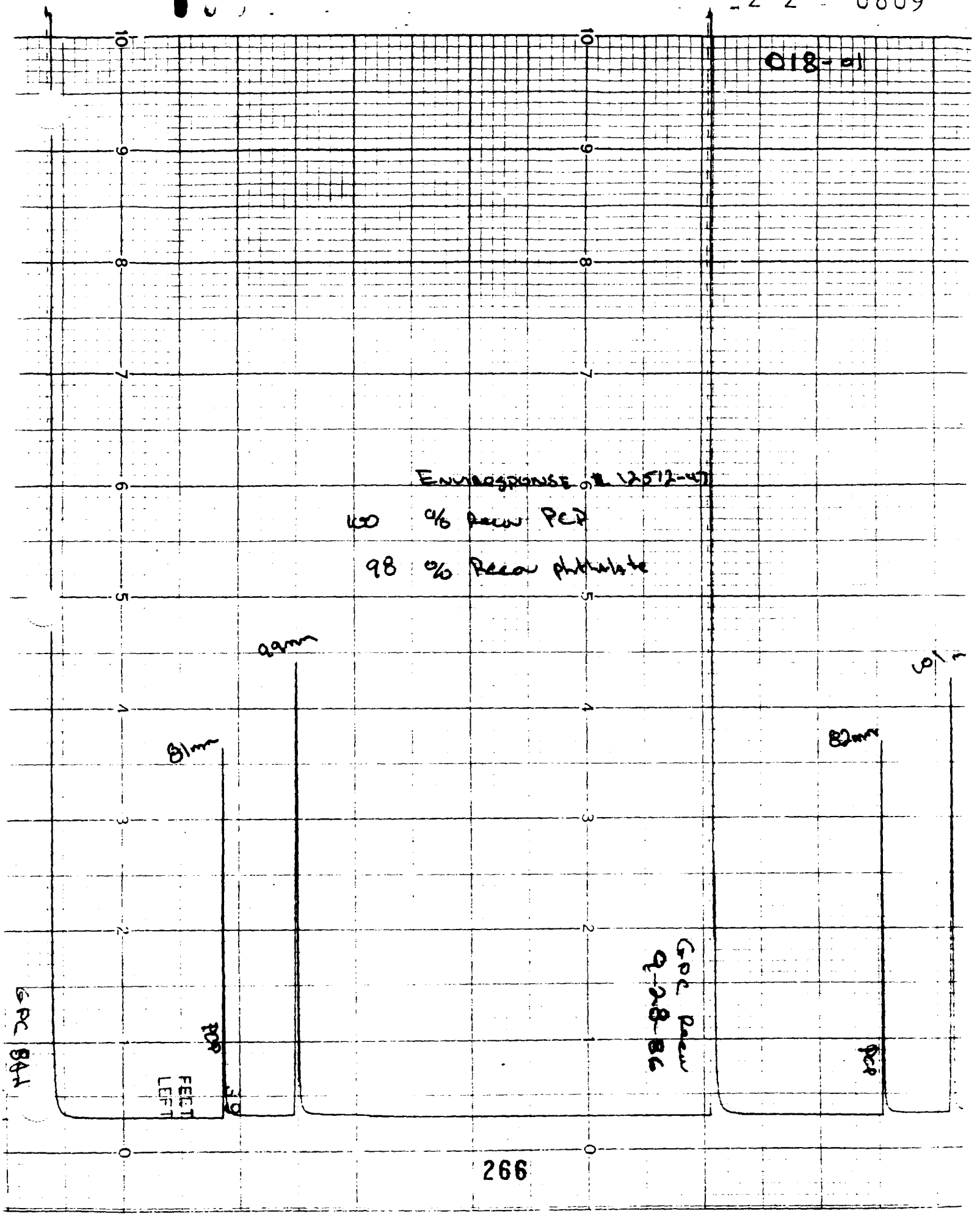
2 2 0807
016-86



2 2 0808
018-02



GPC check Sd
ENVIROSPONSE # 12512-47
9-28-86


018-01
ENVIROSPONSE # 12512-47
100 % Recov PCP
98 % Recov phthalate
99mm
81mm
82mm
PCP
PCP
GPC Recov
9-28-86
GPC BAN
FEET
LEFT

EXTRACT CONTROL FORM (WATERS)

CEC JOB #	ANALYST	DATE	METHOD	CASE
12512-47	CLP	9-18-86	CLP IEPA	—

SOLVENT	LOT #	LOCATION	TRAY #
MeCl2	AP105	Freezer #16	Shelf #1

CEC #	CLIENT ID	VOLUME	PH	FINAL VOLUME BN	ACID	PEST
493428	7332-55602	750 ml	6.4	1.0 ml	1.0 ml	
493428-DUP	7332-55602	750 ml	6.4	1.0 ml	1.0 ml	
493429	7333-55603	1000 ml	6.4	1.0 ml	1.0 ml	
493430	7334-55604	850 ml	5.0	1.0 ml	1.0 ml	
493431	7346-55605	750 ml	7.2	1.0 ml	1.0 ml	
493431-MS	7346-55605	750 ml	7.2	1.0 ml	1.0 ml	
493432	7335-55606	1000 ml	6.3	1.0 ml	1.0 ml	
493433	7353-55607	1000 ml	6.5	1.0 ml	1.0 ml	
493434	7341-55608	1000 ml	6.3	1.0 ml	1.0 ml	
493435	7342-55609	1000 ml	6.6	1.0 ml	1.0 ml	
493436	7344-55610	1000 ml	6.8	1.0 ml	1.0 ml	
493437	7345-55611	1000 ml	6.9	1.0 ml	1.0 ml	

QUALITY CONTROL INFORMATION

ABN SURROGATE SPIKE # 41024	AMOUNT 1.0 ml	CONC. 100/200 PPM	
ABN MATRIX SPIKE # 41064	AMOUNT 1.0 ml	CONC. 100/200 PPM	
PEST SURROGATE SPIKE #	AMOUNT	CONC.	
PEST MATRIX SPIKE #	AMOUNT	CONC.	

NOTES

VTF

004-04

2 2 0811

EXTRACT CONTROL FORM (WATERS)

CEC JOB #	ANALYST	DATE	METHOD	CASE
12512-47	CLP	9-18-86	CLP/EPA	—

SOLVENT	LOT #	LOCATION	TRAY #
MeCl2	AB105	Freezer #16	Shelf #1

CEC #	CLIENT ID	VOLUME	PH	FINAL VOLUME BN	FINAL VOLUME ACID	FINAL VOLUME PEST
1 m BLANK 4/0	—	1000ml	6.8	1.0ml	1.0ml	
2						
3						
4						
5						
6						
7						
9						
10						
11						
12						

QUALITY CONTROL INFORMATION

ABN SURROGATE SPIKE # 410 24 AMOUNT 1.0 ml CONC. 100/200 ml

ABN MATRIX SPIKE # 410 64 AMOUNT 1.0ml CONC. 100/200 ml

PEST SURROGATE SPIKE # _____ AMOUNT _____ CONC. _____

PEST MATRIX SPIKE # _____ AMOUNT _____ CONC. _____

NOTES

V.T.F.

006-04
2 2 0612

EXTRACT CONTROL FORM (WATERS)

CEC JOB #	ANALYST	DATE	METHOD	CASE
12512-47	CLP	9-18-86	CLP IEPA	—

SOLVENT	LOT #	LOCATION	TRAY #
MeCl2	AP105	Freezer #16	Shelf #1

CEC #	CLIENT ID	VOLUME	PH	FINAL VOLUME BN	FINAL VOLUME ACID	FINAL VOLUME PEST
493428	7332-55602	750 ml	6.4	1.0 ml	1.0 ml	
493428-DUP	7332-55602	750 ml	6.4	1.0 ml	1.0 ml	
493429	7333-55603	1000 ml	6.4	1.0 ml	1.0 ml	
493430	7334-55604	850 ml	5.0	1.0 ml	1.0 ml	
493431	7346-55605	750 ml	7.2	1.0 ml	1.0 ml	
493431-MS	7346-55605	750 ml	7.2	1.0 ml	1.0 ml	
493432	7335-55606	1000 ml	6.3	1.0 ml	1.0 ml	
493433	7353-55607	1000 ml	6.5	1.0 ml	1.0 ml	
493434	7341-55608	1000 ml	6.3	1.0 ml	1.0 ml	
493435	7342-55609	1000 ml	6.6	1.0 ml	1.0 ml	
493436	7344-55610	1000 ml	6.8	1.0 ml	1.0 ml	
493437	7345-55611	1000 ml	6.9	1.0 ml	1.0 ml	

QUALITY CONTROL INFORMATION

ABN SURROGATE SPIKE # 41024	AMOUNT 1.0 ml	CONC. 100/200 PPM	
ABN MATRIX SPIKE # 41064	AMOUNT 1.0 ml	CONC. 100/200 PPM	
PEST SURROGATE SPIKE #	AMOUNT	CONC.	
PEST MATRIX SPIKE #	AMOUNT	CONC.	

NOTES

VTF

006-05 2 2 0813

EXTRACT CONTROL FORM (WATERS)

CEC JOB #	ANALYST	DATE	METHOD	CASE
12512-47	CLP	9-18-86	CLP/EPA	—

SOLVENT	LOT #	LOCATION	TRAY #
MeCl2	AP105	Freezer #16	Shelf #1

	CEC #	CLIENT ID	VOLUME	PH	FINAL VOLUME BN	ACID	PEST
1	BLANK 4/4	—	1000ml	6.8	1.0ml	1.0ml	
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

QUALITY CONTROL INFORMATION

ABN SURROGATE SPIKE # 41024 AMOUNT 1.0 ml CONC. 100/200 ml

ABN MATRIX SPIKE # 41064 AMOUNT 1.0 ml CONC. 100/200 ml

PEST SURROGATE SPIKE # _____ AMOUNT _____ CONC. _____

PEST MATRIX SPIKE # _____ AMOUNT _____ CONC. _____

NOTES

VTF

LABORATORY (YSIS REPORT

JIRESPONSE, INC.
Raritan Depot, Woodbridge Ave.
Edison, NJ 08837

Page 1 of 2
Part II of II

Log in Date: 18-SEP-86
Job No.: 12512-47
P.O.No.:
Tel No.: ( ) -

Media: OIL
Special Instr: ~~2 BOTTLES-1 SAMPLE~~. RESULTS TO NEW JERSEY Page 2 BNA share samples

Lab Number	Sample Description	Air Vol.	Do MS&dupspike GC Extraction Units		GC-RAS Pesticides/PCB's Units		Special Analysis Units		Units	
	Density of oil		( )	( )	( )	( )	( )	( )	( )	( )
493439	7334-55604 (OIL) 0.89 g/ml									
			We	are	not	going	to	extract	this	
			oil.	dilute	&	shoot	as	per	DAR w/	
								Tom		

Comments:

Analyst:	Michael A. Wagner
Date Comp:	9/29/86
Q.C.Blank:	
Q.C.1:	
Q.C.2:	
Method:	
L.O.D.:	

Charged
Approved

080482

036

2 2 0814
006-06

ENVIROSPONSE, INC.

CLAYTON PROJECT NUMBER: 12512-47

ION CHROMATOGRAPHY
TABLE OF RESULTS

Sample Number	Lab Number	Bromide (mg/L)	LOD (mg/L)	Chloride (mg/L)	LOD (mg/L)
7332 (L/W)	493419	<1	1	4	0.5
7333 (L/W)	493420	<1	1	11	0.5
7334 (L/W)	493411	11	1	310	0.5
7335 (L/W)	493422	<1	1	6.4	0.5
7341 (L/W)	493424	<1	1	22	0.5
7341 (L/W)Dup	493424	<1	1	22	0.5
7342 (L/W)	493425	<1	1	64	0.5
7344 (L/W)	493426	<1	1	11	0.5
7345 (L/W)	493427	<1	1	11	0.5
7346 (L/W)	493421	<1	1	<0.05	0.5
7353 (L/W)	493423	<1	1	10	0.5
Lab Blank	------	<1	1	<0.5	0.5

Analysis performed according to EPA Test Methods for the Examination of Solid Waste, SW-846, Second Edition, July 1982, Method # 300.

MATRIX SPIKE RECOVERY

Sample Number	Compound	Percent Recovery
7341MS	chloride	98
7344MS	chloride	96
7335MS	bromide	98
7341MS	bromide	110

Data Release Authorized By_____

047-01
2 2 0815

Clien . Janet J. Cullinane

CLAYTON ENVIRONM[illegible] CONSULTANTS, INC.

LABORATORY [illegible]YSIS REPORT

ENVIRESPONSE, INC.
Raritan Depot, Woodbridge Ave.
Edison, NJ 08837

Page of
Part II of III

Log in Date: 18-SEP-86

Due before 10/2

Media: WATER

Job No.: 12512-47

Special Instr: 1 VOA BOTTLE. RESULTS TO NEW JERSEY.

P.O.No.:

Do 1 MS and 1 unspiked duplicate

Tel No.:

VOA RAGE FRIG #17 Analyses Requested			√BC Bromide		√BC Chloride					
Lab Number BW	Sample Description	Air Vol.	Units (mg/L)	( )	Units (mg/L)	( )	Units ( )	( )	Units ( )	( )
493419	7332-55602 sample duplicate		<1		4.0					
493420	7333-55603				11					
493421	7343-55605 sample MS				<0.5					
493422	7335-55606				6.4					
493423	7353-55607				10.					
493424	7341-55608				22.					
493425	7342-55609				64.					
493426	7344-55610				11.					
493427	7345-55611				11.					
493411	7334-55604		11		310					
	Blank									
	Matrix spike									

Comments:					
	Analyst:	L. Schall →			
spike	Date Comp:	9-29-86 →			
We need to send copy	Q.C.Blank:	<1 mg/L	<0.5 mg/L		
of lab book and	Q.C.1:	98%	98%		
clearly labelled	Q.C.2:	110%	96%		
chromatograms !!	Method:	EPA 300. →			
	L.O.D.:	1 mg/L	0.5 mg/L		

Be extra sure charts are well labeled

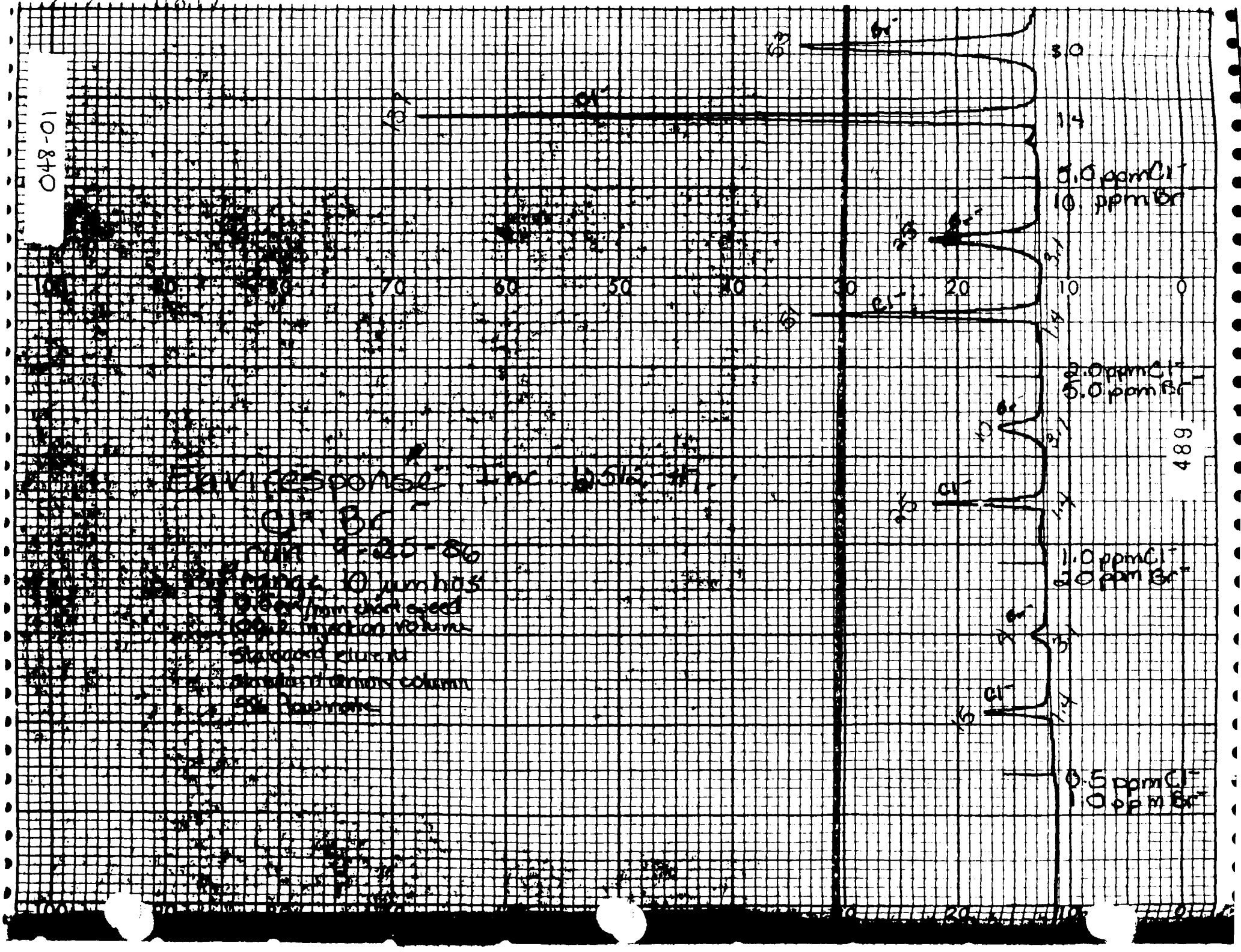
√ Charged

Approved

080482

487

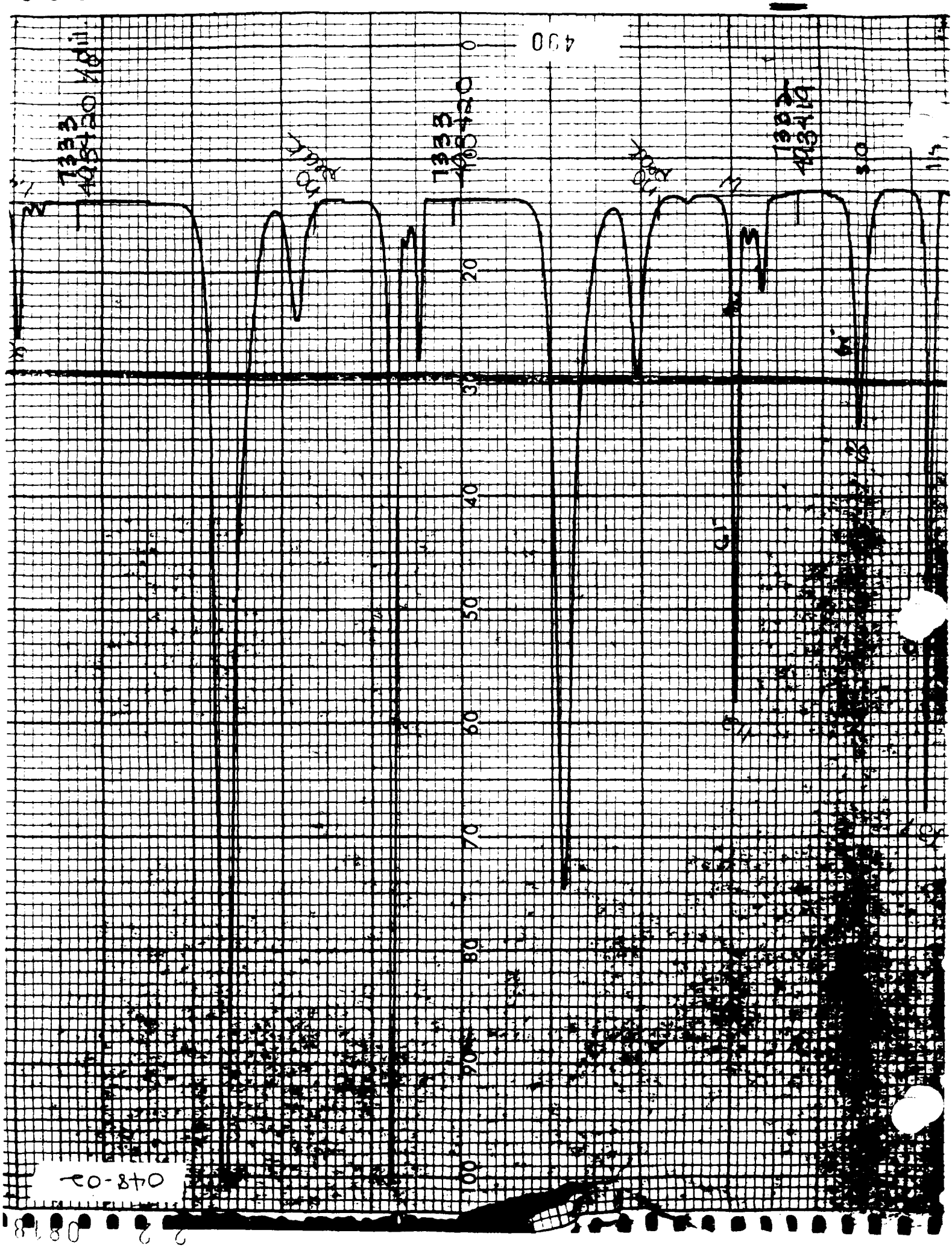
22 0816 046-01



Cl⁻, Br⁻
run 9-25-86
range 10 µmhos
Cl⁻
Br⁻
3.0
1.4
5.0 ppm Cl⁻
10 ppm Br⁻
2.0 ppm Cl⁻
5.0 ppm Br⁻
1.0 ppm Cl⁻
2.0 ppm Br⁻
0.5 ppm Cl⁻
1.0 ppm Br⁻
100
70
60
50
40
30
20
10
0

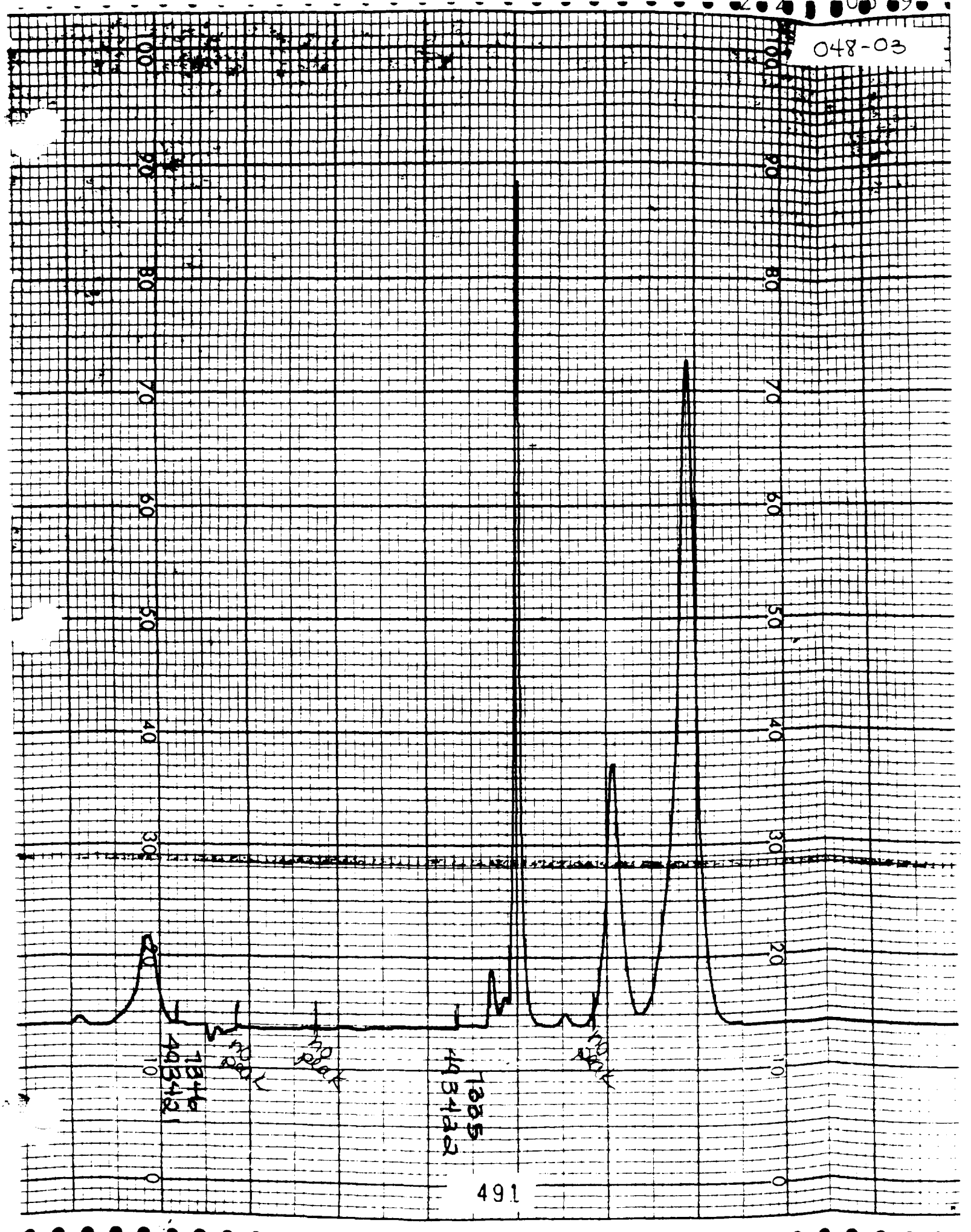
10-840

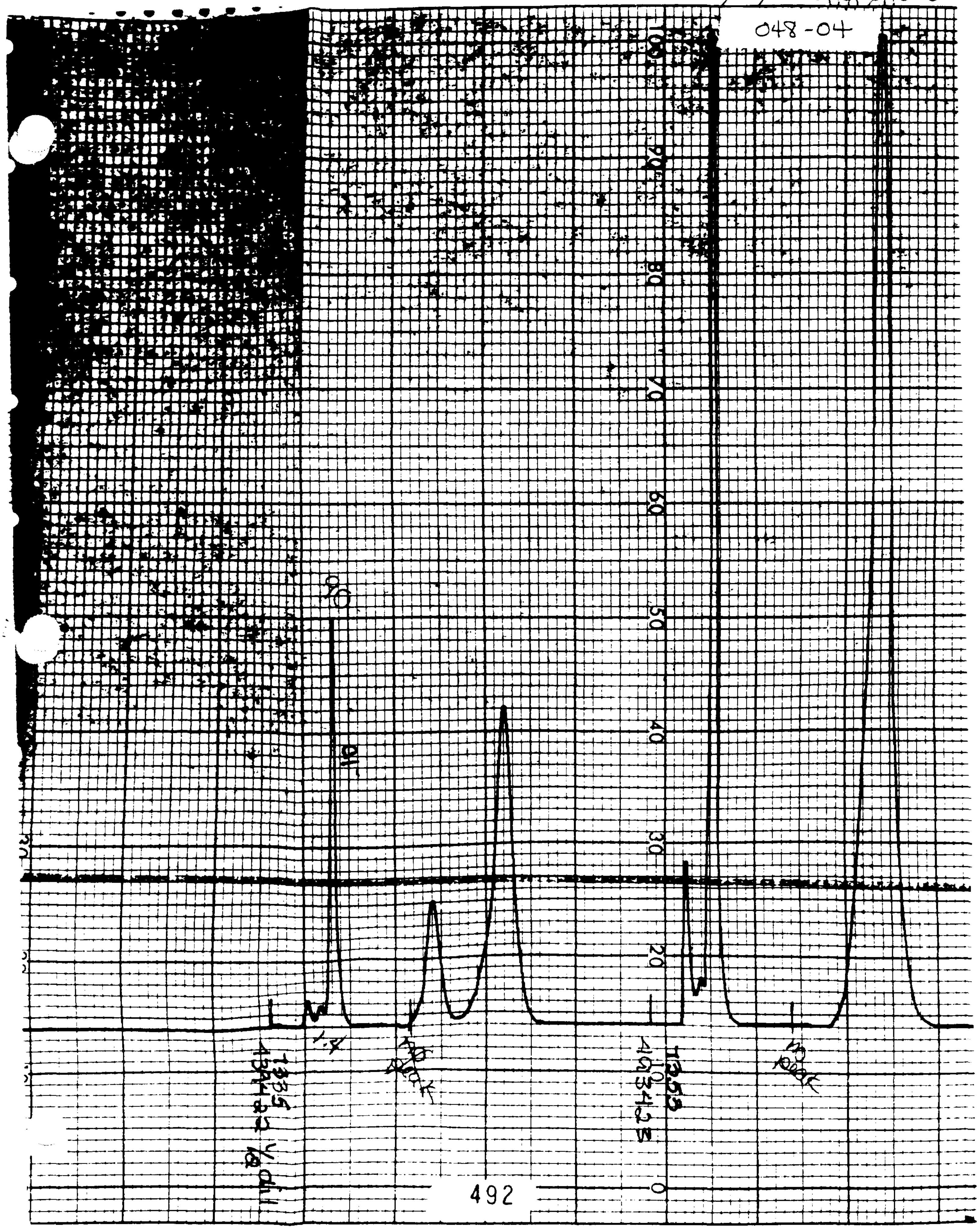
489



0
20
30
40
50
60
70
80
90
100

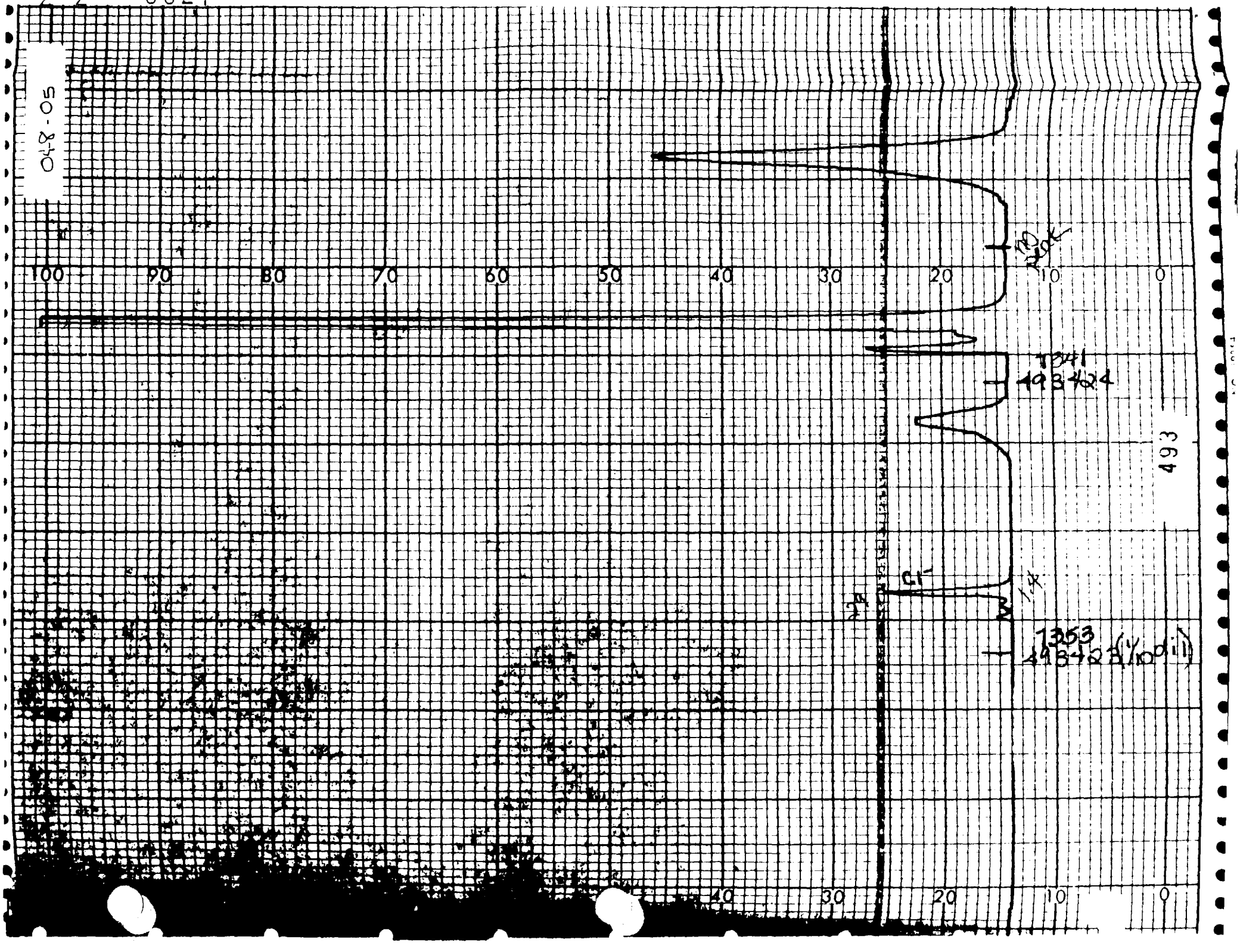
048-03

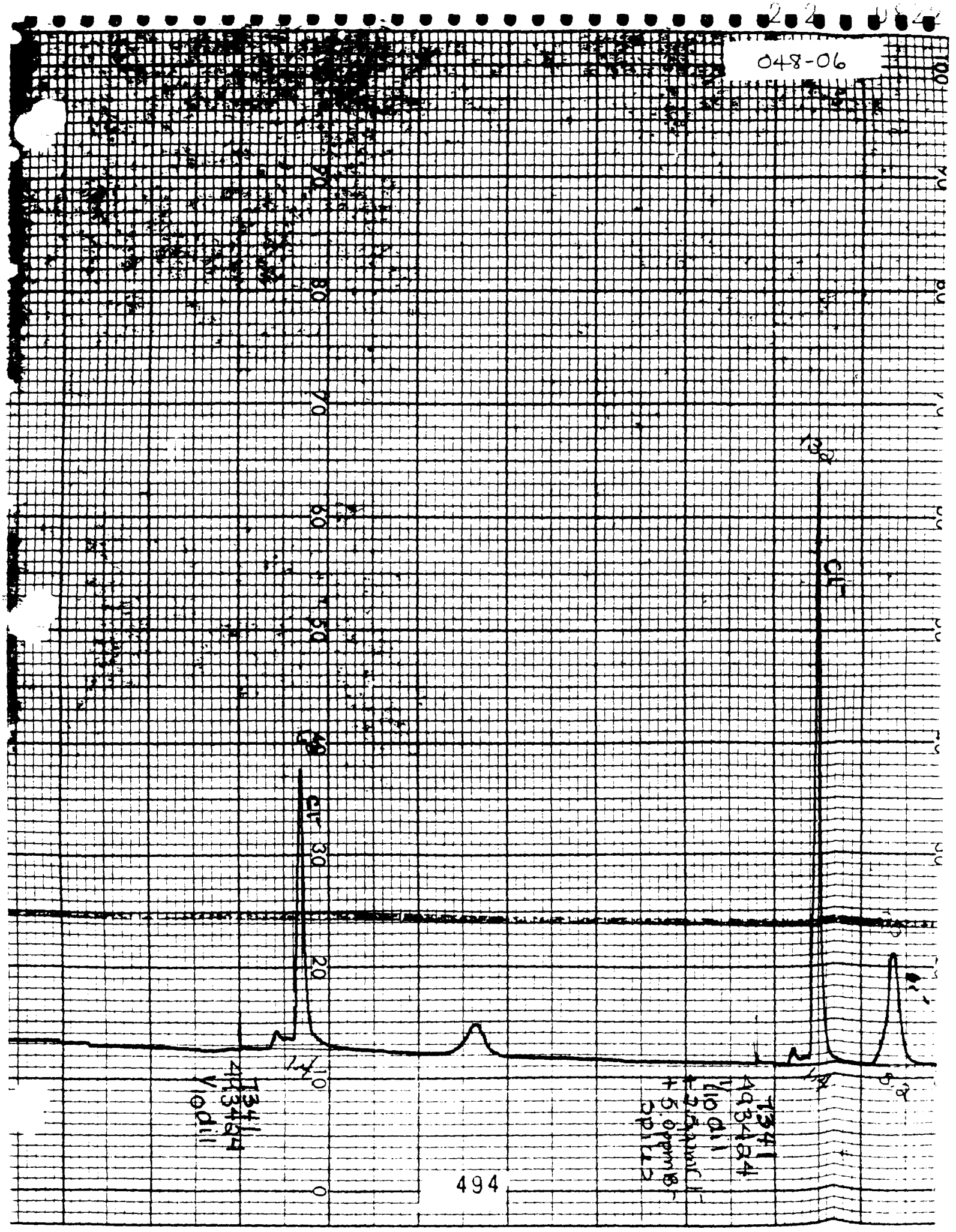

100
90
80
70
60
50
40
30
20
10
0
no peak
no peak
no peak
7346
493421
7335
493422

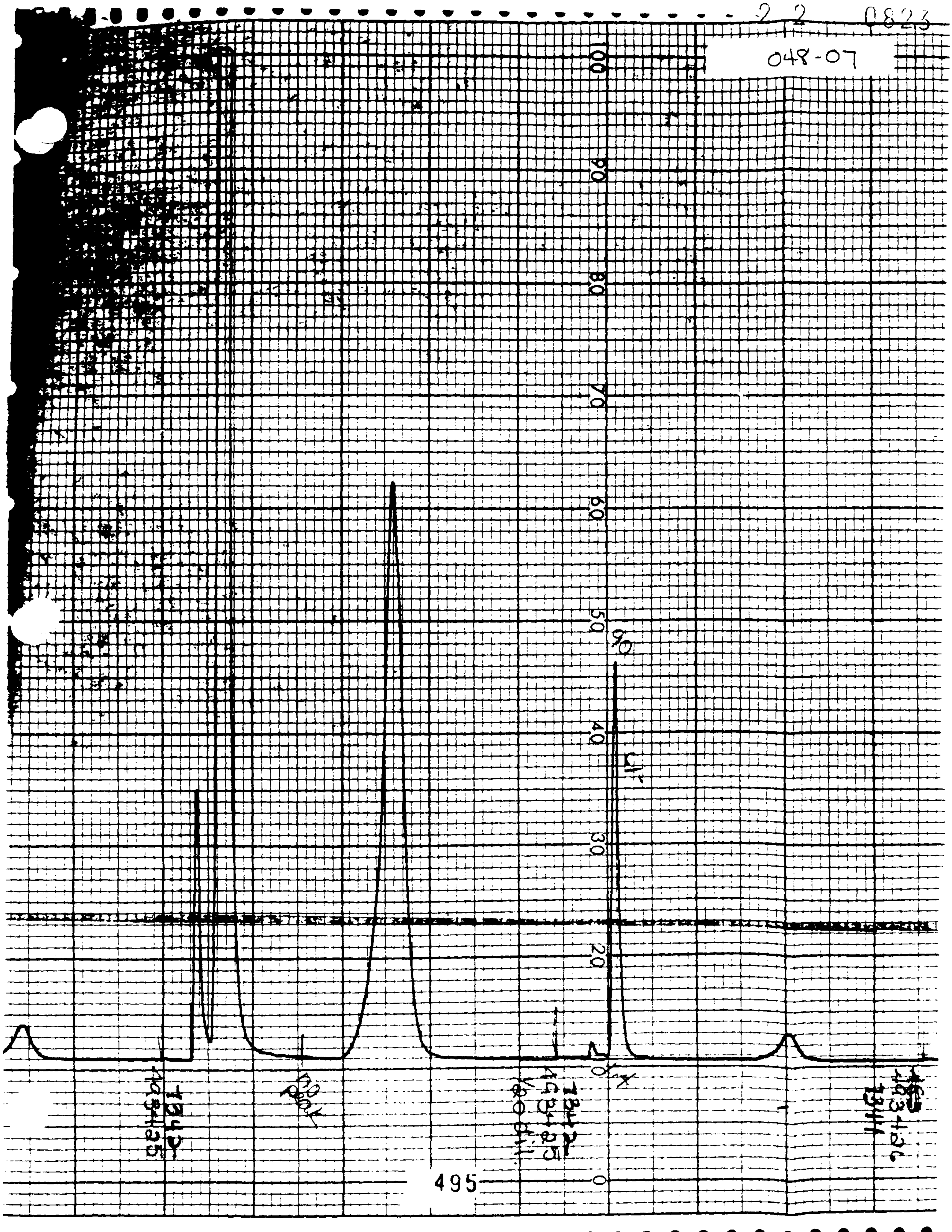

048-04

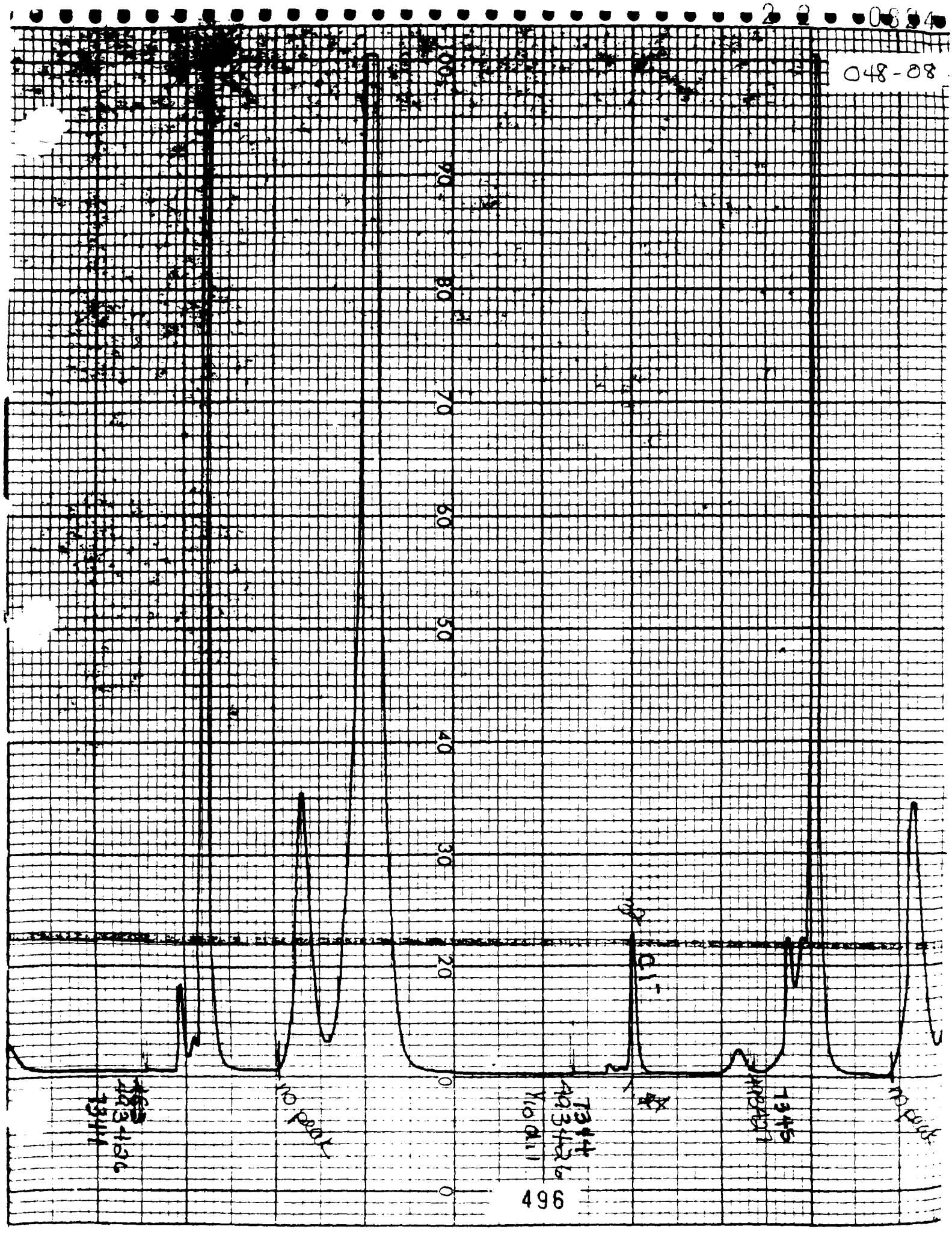
2 2 0821

048-05

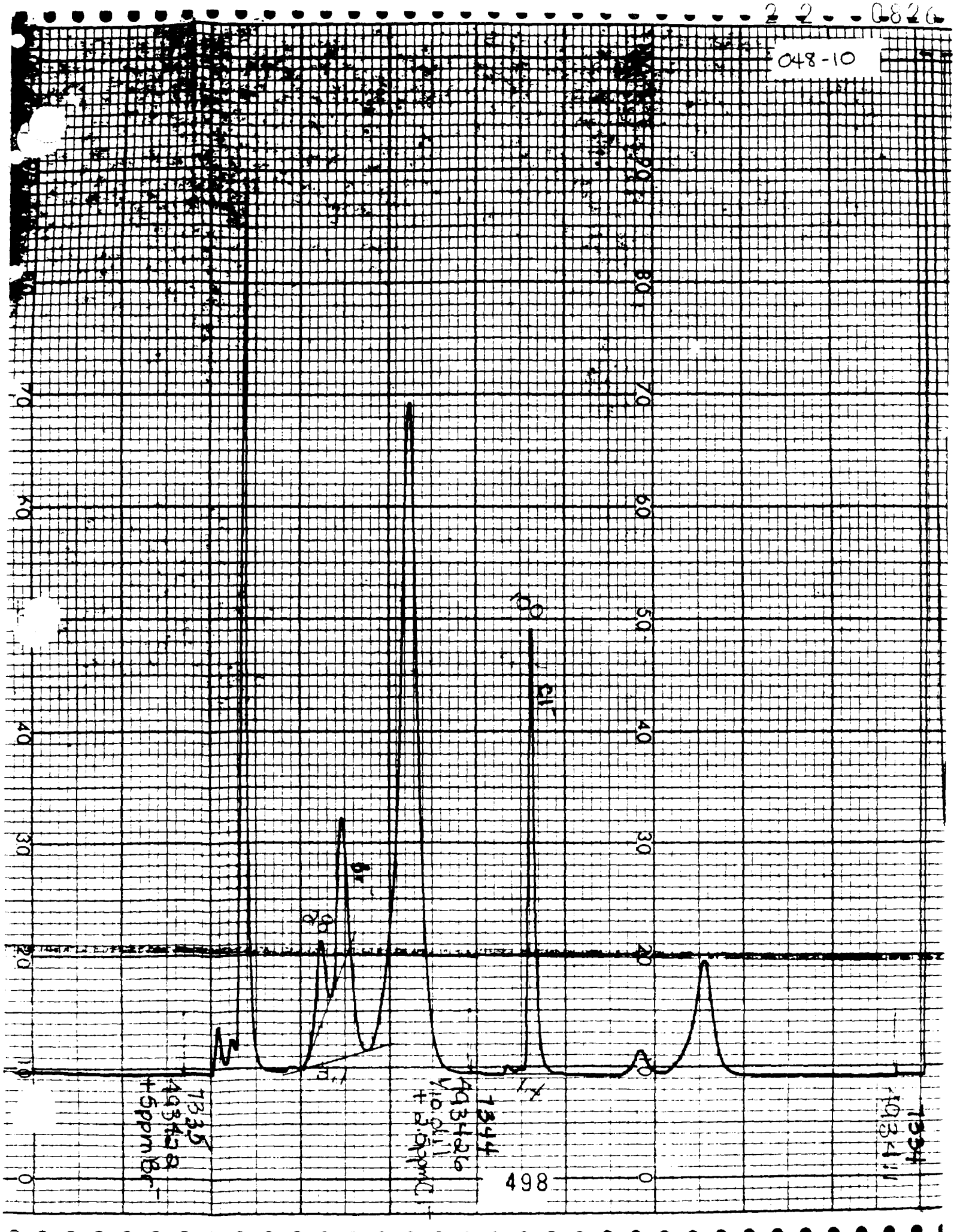


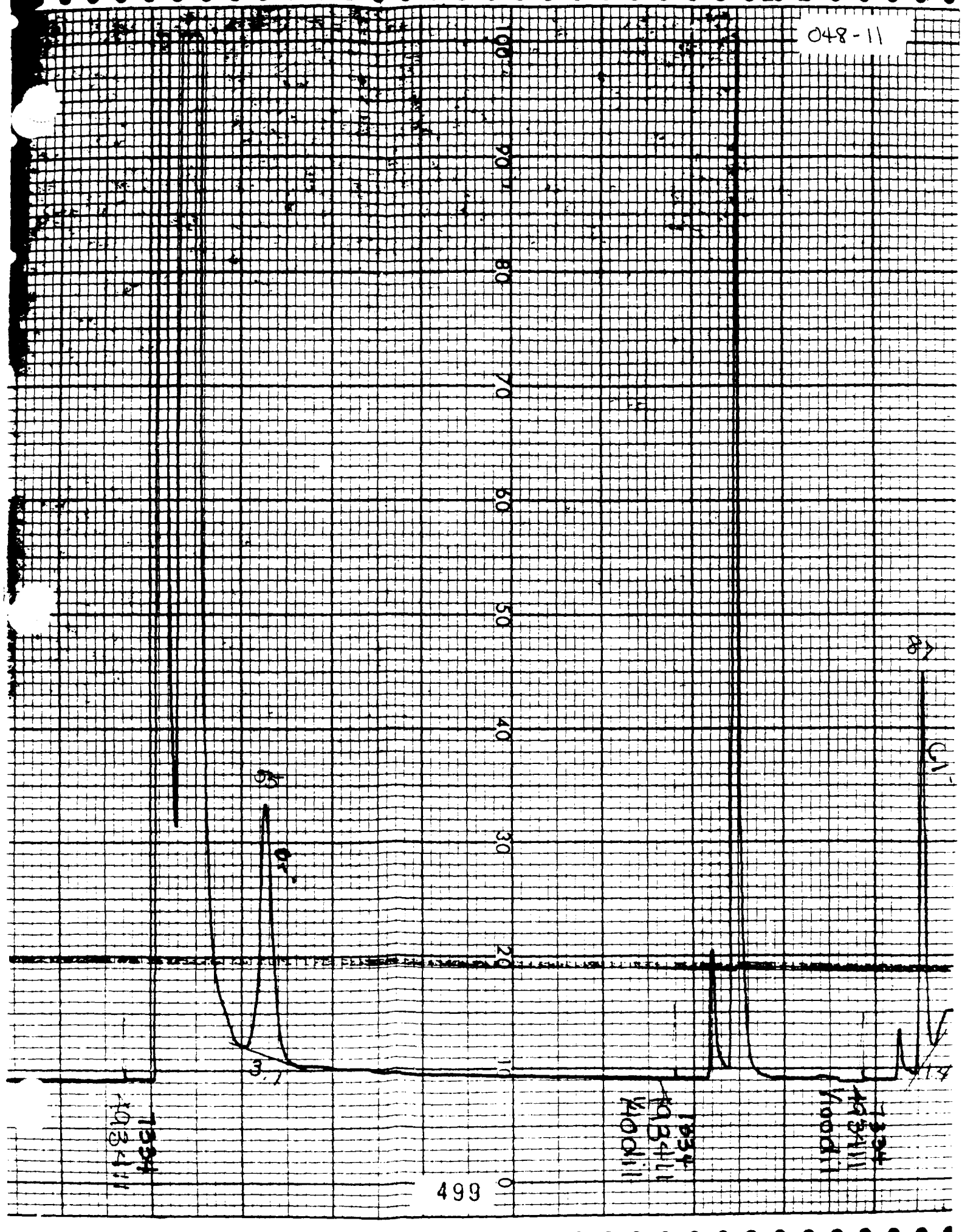

048-06
Cl-
Cl-
T341
493424
Yiodil
T341
493424
Yiodil
+5.0ppmB-
Spike

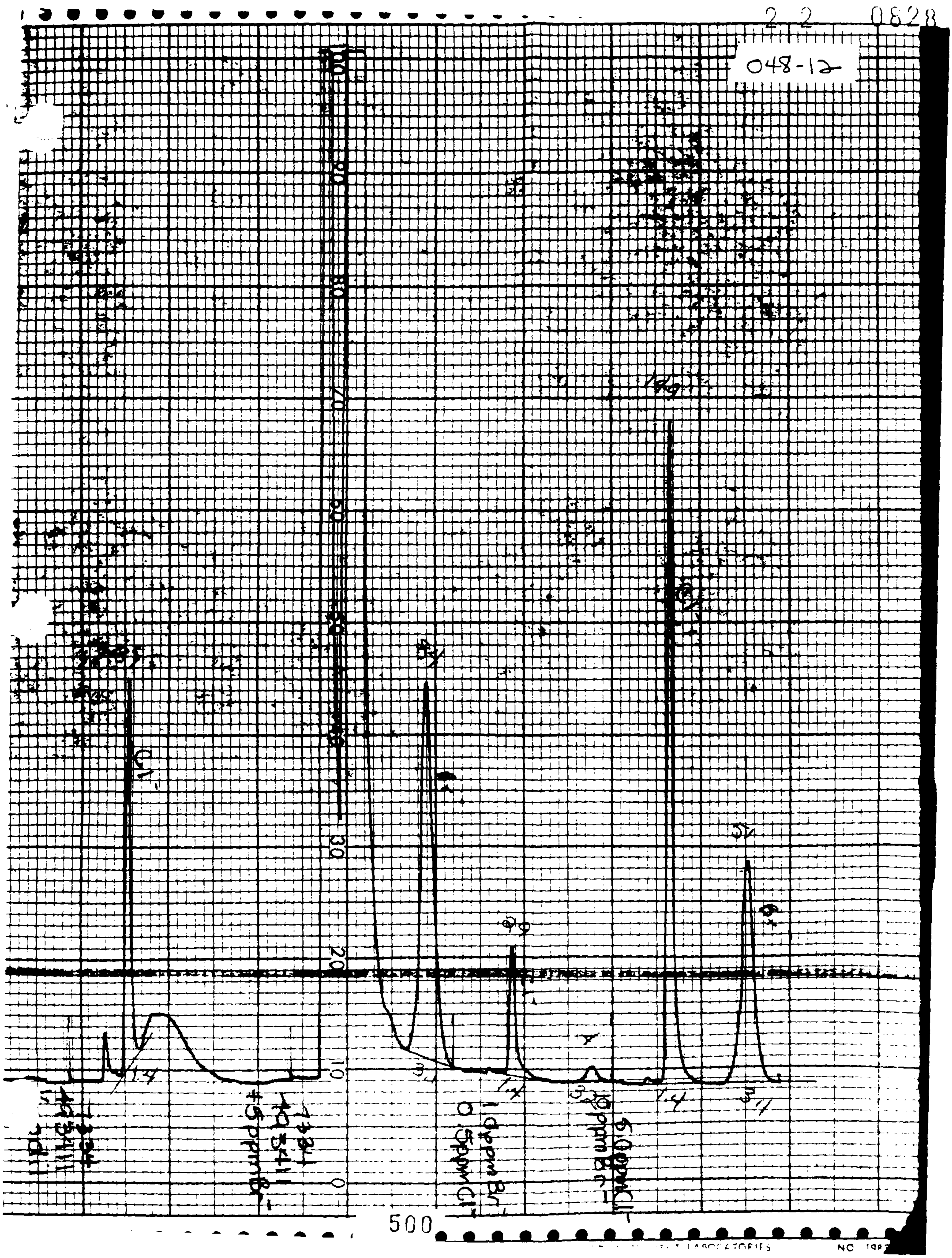

0823
048-07
100
90
80
70
60
50
40
30
20
0
495


048-08
100
90
80
70
60
50
40
30
20
0
no peak
no peak
C1-

048-09
no peak
7345
493427
1/10 dil.


2 2 0826
048-10
7335
493422
+5ppm Br-
7344
493426
+2.5ppm Cl-
7334
493411
Br-
Cl-
100
90
80
70
60
50
40
30
20
10
0


048-11
100
90
80
70
60
50
40
30
20
10
0
3.1
1334
493411
1334
493411
1/40 dil
1334
493411
1/100 dil


2 2 0828
048-12
Cl⁻
500

ENVIROSPONSE, INC.

CLAYTON PROJECT NUMBER: 12512-47

GAS CHROMATOGRAPHY/ FID
TABLE OF RESULTS

Sample Number	Lab Number	Oil Fingerprint (Diesel Fuel #2)
7332 (L/W)	493428	Negative
7333 (L/W)	493429	Negative
7334 (L/W)	493430	Positive
7335 (L/W)	493432	Negative
7341 (L/W)	493434	Negative
7342 (L/W)	493435	Negative
7344 (L/W)	493436	Negative
7345 (L/W)	493437	Negative
7346 (L/W)	493431	Negative
7353 (L/W)	493433	Negative
7334 (oil)	493439	Positive
Blank I	---------	Negative
Blank II	---------	Negative

Analysis performed by gas chromatography using an flame ionization detector.

Recovery #1 from run 589 was 110 %.
Recovery #2 from run 590 was 114 %.

Data Release Authorized By

(AM) 2 2 0830-051-01

TOTAL TIME/SAMPLE ~41.66 START ____ PM DATE 10-2-86

SAMPLE#	PRINTOUT ID. (SAMPLE:)	LOG#	CLIENT	ANALYSIS	SOLVENT & DESORPTION
Std	(2 ul/10 ml 0.01 ug/10 ml)				
2 [illegible]	(Diesel Fuel #2)				Freon 113
3 MBLK I			ENVIRESPONSE		
4 MBLK II		#17512-17		SPECIAL	
5 493428					5 ml
6 25DP					
7 29					
8 31					
9 32					
10 33					
11 STD					
12 [illegible]					
13 493434					
14 35					
15 36					
16 37					
17 Rec 1	5 ul/5 ml diesel fuel				
Rec 2	5 ul/5 ml diesel fuel				
19 STD					
20 [illegible]					
21 493439	* [illegible]	[illegible]			
22 493430	* [illegible]				
23 [illegible]					
24 [illegible]					
25 [illegible]					
26 [illegible]					
27 [illegible]					
28 STD					
29		(*) 125 (10 min) ↑5	— 200 (15 min) ↑	30 → [illegible]	
30					
31					
32					
33					
34					
35					

SPLIT 14 [illegible] 506 CHART PAPER PAGES/FT. LEFT ____

COLUMN [illegible] INJ. TEMP. [illegible] TOTAL PSIG AIR: ____

CARRIER/FLOW ____ DET. TEMP [illegible] TOTAL PSIG HYDROGEN ____

COLUMN TEMP. (*) ATT. [illegible] TOTAL PSIG CARRIER ____

2 2 0831 052-01

Standard Diesel Fuel #2

Run 513

Std
20ul/10ml
0.0166g/10ml

2 2 0832052-02

Standard Diesel Fuel #

23.18	20135	VV	0.137	0.028
23.35	13368	VV	0.085	0.019
23.51	5648	VV	0.053	0.008
23.59	12705	VV	0.085	0.018
23.65	10971	VV	0.059	0.015
23.85	12592	VV	0.087	0.018
23.99	3215	VV	0.067	0.005
24.14	4810	VV	0.101	0.007
24.28	17481	VV	0.083	0.025
24.58	82487	VV	0.060	0.116
24.81	42906	VV	0.090	0.060
25.14	10238	VV	0.106	0.014
25.27	6906	VV	0.080	0.010
25.46	14738 D	VV	0.031	0.021
25.61	7463	VV	0.076	0.011
25.75	5094	VV	0.081	0.007
25.85	5917	VV	0.079	0.008
26.01	4825	VP	0.073	0.007
26.15	11195	PV	0.063	0.016
26.37	1520	BP	0.043	0.002
26.47	2239	PP	0.060	0.003
26.60	2307	PV	0.066	0.003
26.94	7192	VP	0.090	0.010
27.17	54547	PV	0.061	0.076
27.31	13939	VV	0.088	0.020
27.47	14276	VB	0.092	0.020
27.95	1641	PV	0.086	0.002
28.05	5386	VV	0.082	0.008
28.20	3379	VP	0.069	0.005
28.38	1638	PB	0.061	0.002
28.71	2200	PV	0.108	0.003
28.92	3172	VP	0.083	0.004
29.11	4789	PV	0.089	0.007
29.37	4699	VV	0.136	0.007
[illegible].78	6821	VV	0.181	0.010
[illegible].39	36032	PB	0.085	0.051
[illegible].96	3419	PP	0.117	0.005
31.30	3655	PV	0.095	0.005
32.01	3887	BV	0.145	0.012
32.27	4613	VV	0.161	0.007
32.79	2406	PV	0.142	0.003
34.68	20561	BP	0.115	0.029
39.76	2815	BV	0.143	0.004
40.47	13828	VV	0.133	0.019

TOTAL AREA= 7.1424E+07
MUL FACTOR= 1.0000E+00

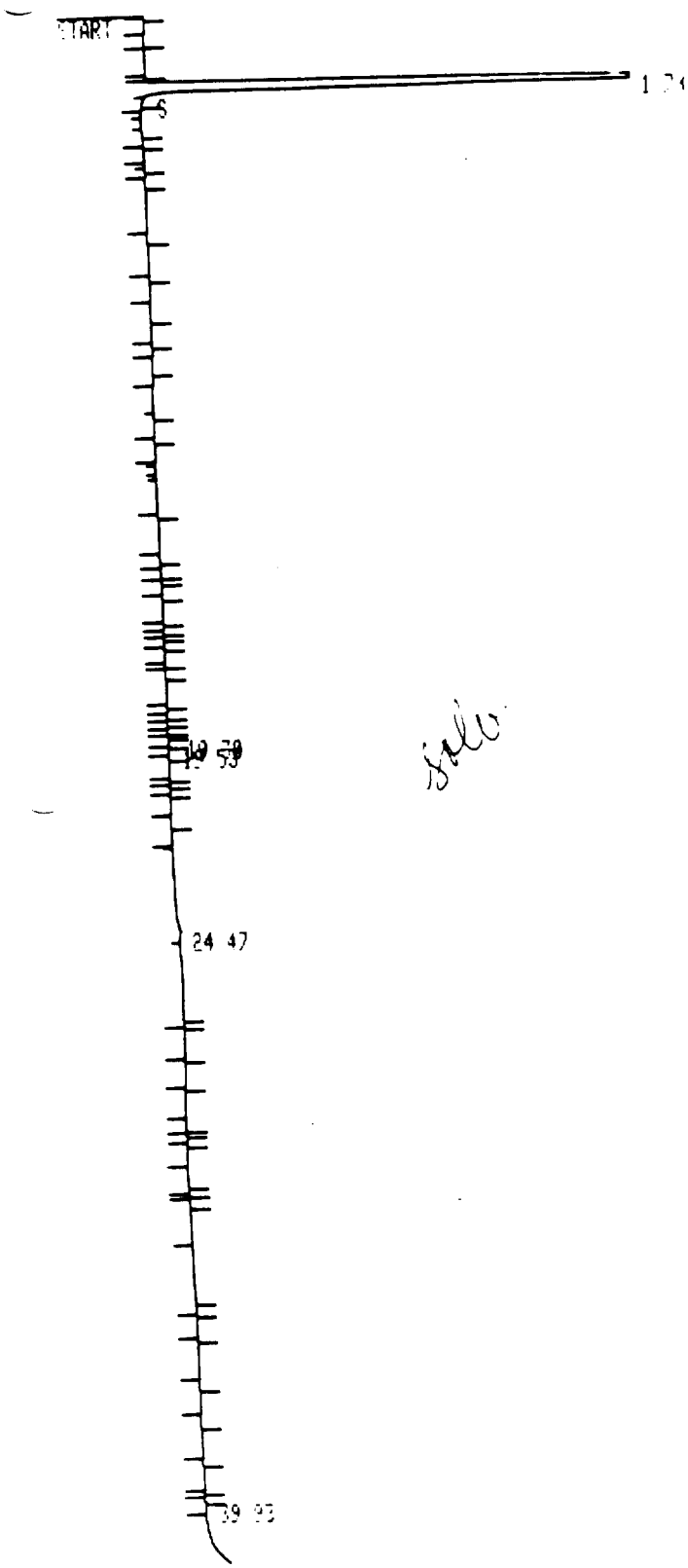
12.89	77249	VV	0.080	0.100
13.03	59911	VV	0.096	0.084
13.23	14918	VV	0.130	0.021
13.39	7569	VV	0.092	0.011
13.67	34295	VV	0.096	0.048
13.79	37568	VV	0.097	0.053
14.11	20664	VV	0.096	0.029
14.26	75350	VV	0.096	0.106
14.46	12711	VV	0.091	0.018
14.59	19842	VV	0.086	0.028
14.95	14400	VV	0.114	0.020
14.98	8398	VP	0.080	0.012
15.16	1124	PP	0.054	0.002
15.37	16053	PV	0.084	0.023
15.50	7755	VV	0.064	0.011
15.59	1993	VV	0.052	0.003
15.70	147020	VB	0.065	0.206
15.91	1324	BP	0.047	0.002
16.04	24055	PH	0.069	0.034
16.15	2911	HH	0.059	0.004
16.24	5259	HP	0.059	0.007
16.37	791	PH	0.050	0.001
16.46	8281	HP	0.074	0.012
16.67	12146	PH	0.080	0.017
16.80	27746	HH	0.074	0.039
16.96	38441	HH	0.081	0.054
17.33	12902	HH	0.101	0.018
17.40	8773	HH	0.065	0.012
17.52	40143	HH	0.069	0.056
17.60	27335	HH	0.066	0.038
17.71	8976	HH	0.063	0.013
17.80	7637	HH	0.068	0.011
17.89	13294	HH	0.060	0.019
17.97	10201	HH	0.059	0.014
18.07	17938	HH	0.084	0.025
18.13	25542	HH	0.078	0.036
18.36	1099	HH	0.048	0.002
18.50	2766	HV	0.082	0.004
18.68	11304	VV	0.103	0.016
18.84	19796	VV	0.131	0.028
19.07	152640	VV	0.070	0.214
19.26	27921	VV	0.111	0.039
19.51	11771	VV	0.075	0.017
19.72	9573	VV	0.074	0.013
19.88	12984	VV	0.069	0.018
19.99	6949	VV	0.067	0.010
20.09	9367	VV	0.079	0.013
20.23	4311	VV	0.066	0.006
20.31	6876	VV	0.072	0.010
20.43	12328	VV	0.066	0.017
20.53	46146	VV	0.091	0.065
20.77	30744	VV	0.146	0.043
20.95	15123	VV	0.071	0.021
21.17	12075	VV	0.080	0.017
21.32	10461	VV	0.078	0.015
21.47	1480	VV	0.053	0.002
21.55	1769	VV	0.055	0.003
21.66	2540	VV	0.067	0.004
21.78	8533	VV	0.073	0.012
21.39	6188	VV	0.055	0.009
21.98	107370	VV	0.056	0.150
22.13	64487	VV	0.083	0.090
22.31	32109	VV	0.095	0.045
22.47	8867	VV	0.092	0.012
22.60	15474	VV	0.096	0.022
22.75	6793	VV	0.074	0.010
22.38	10012	VV	0.099	0.015
23.06	11926	VV	0.069	0.017

RUN # 573
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 1

AREA%

RT	AREA	TYPE	AR/HT	AR
1.74	6.7616E+07	†SBB	0.134	94
2.50	2982	TBP	0.037	0
2.57	2218	TPV	0.033	0
2.67	13237	TVP	0.059	0
2.78	33531	TPV	0.047	0
2.87	12852	TVV	0.048	0
2.93	9257	DTVV	0.062	0
3.11	17325	TVV	0.089	0
3.26	23553	TVV	0.074	0
3.32	17526	TVP	0.050	0
3.45	6966	TPV	0.044	0
3.60	91107	TVV	0.064	0
3.72	9322	TVV	0.055	0
3.80	14895	TVV	0.057	0
3.92	15557	TVV	0.078	0
4.04	20600	TVP	0.091	0
4.19	16064	TPV	0.062	0
4.29	26136	TVV	0.073	0
4.36	15197	TVV	0.051	0
4.42	21323	TVV	0.060	0
4.54	38180	TVV	0.069	0
4.66	9954	TVV	0.081	0
4.78	20482	TVV	0.103	0
4.95	9711	TVV	0.054	0
5.03	145120	TVV	0.066	0
5.21	33904	TVV	0.084	0
5.30	63384	TVV	0.092	0
5.48	8983	TVV	0.070	0
5.62	5243	TVV	0.070	0
5.79	26909	TVP	0.091	0
5.98	9959	TPV	0.085	0
6.07	25015	TVV	0.084	0
6.17	22831	TVV	0.115	0
6.35	17609	TVV	0.074	0
6.47	27593	TVV	0.089	0
6.71	47301	TVV	0.092	0
6.91	2814	TVV	0.048	0
6.99	14551	TVB	0.068	0
7.22	3501	BV	0.059	0
7.36	12690	VV	0.100	0
7.55	145980	VV	0.073	0
7.77	9461	VV	0.066	0
7.35	11991	VV	0.056	0
7.94	74361	VV	0.086	0
8.11	9391	VV	0.066	0
8.18	17962	VV	0.091	0
8.54	46449	PV	0.086	0
8.67	27379	VV	0.116	0
8.99	15630	VP	0.139	0
9.35	37697	PV	0.176	0
9.59	13922	VV	0.104	0
9.81	21962	VP	0.120	0
10.05	18014	PV	0.090	0
10.17	7399	VV	0.091	0
10.37	25929	VV	0.139	0
10.65	38024	VB	0.080	0
10.97	7548	BV	0.144	0
11.21	9585	VV	0.115	0
11.33	5448	VV	0.084	0
11.70	160380	VV	0.087	0
11.85	38228	VV	0.091	0
12.00	15202	VV	0.109	0
12.28	74261	VV	0.127	0
12.50	4054	VV	0.079	0
12.64	6214	VV	0.095	0

052-03
2 2 0833



Solvent Freon113

RUN # 574
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 2

AREA%

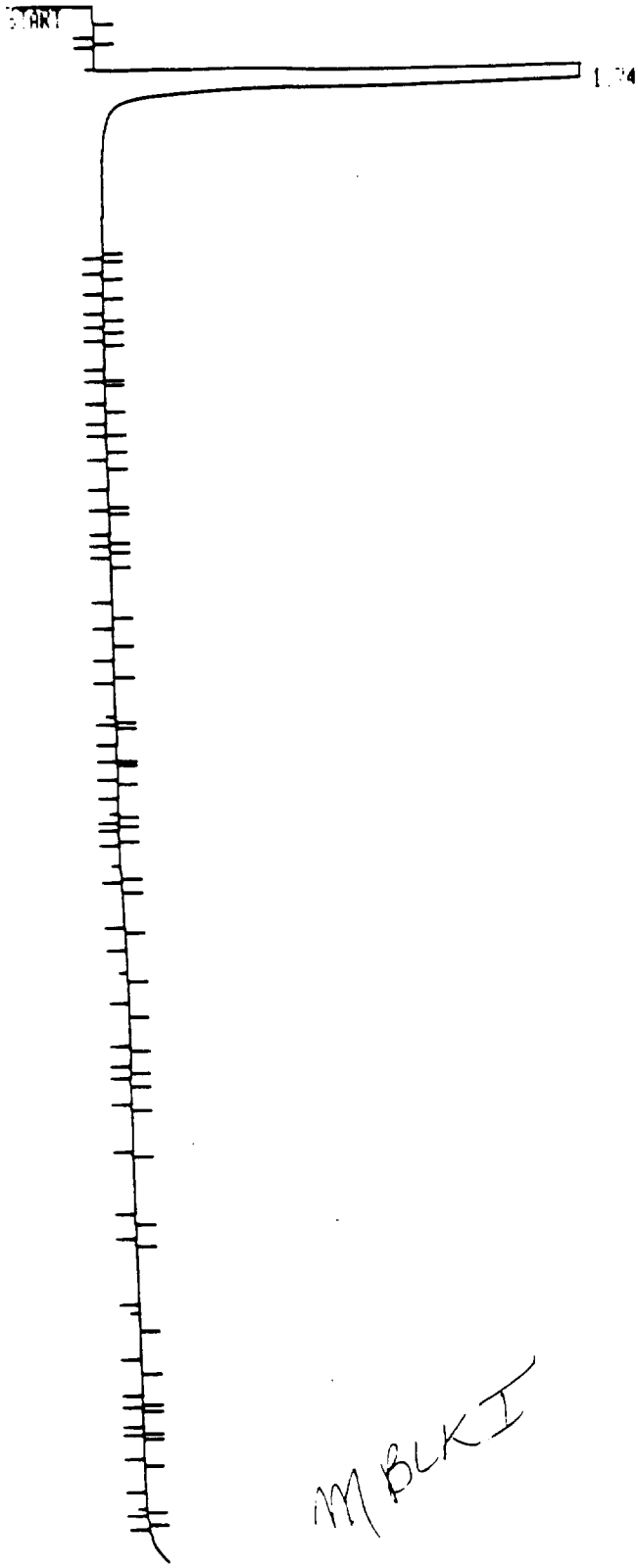
RT	AREA	TYPE	AR/HT	AREA%
1.73	5615300	SBB	0.108	99.792
19.30	819	D PB	0.016	0.015
19.53	287	D BB	0.014	0.005
24.47	10730	PV	0.584	0.191
39.93	410	D BB	0.022	0.007

TOTAL AREA= 5627600
MUL FACTOR= 1.0000E+00

052-04

2 2 0834

M-Blank I (L/W)



RUN # 575
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 3

AREA%

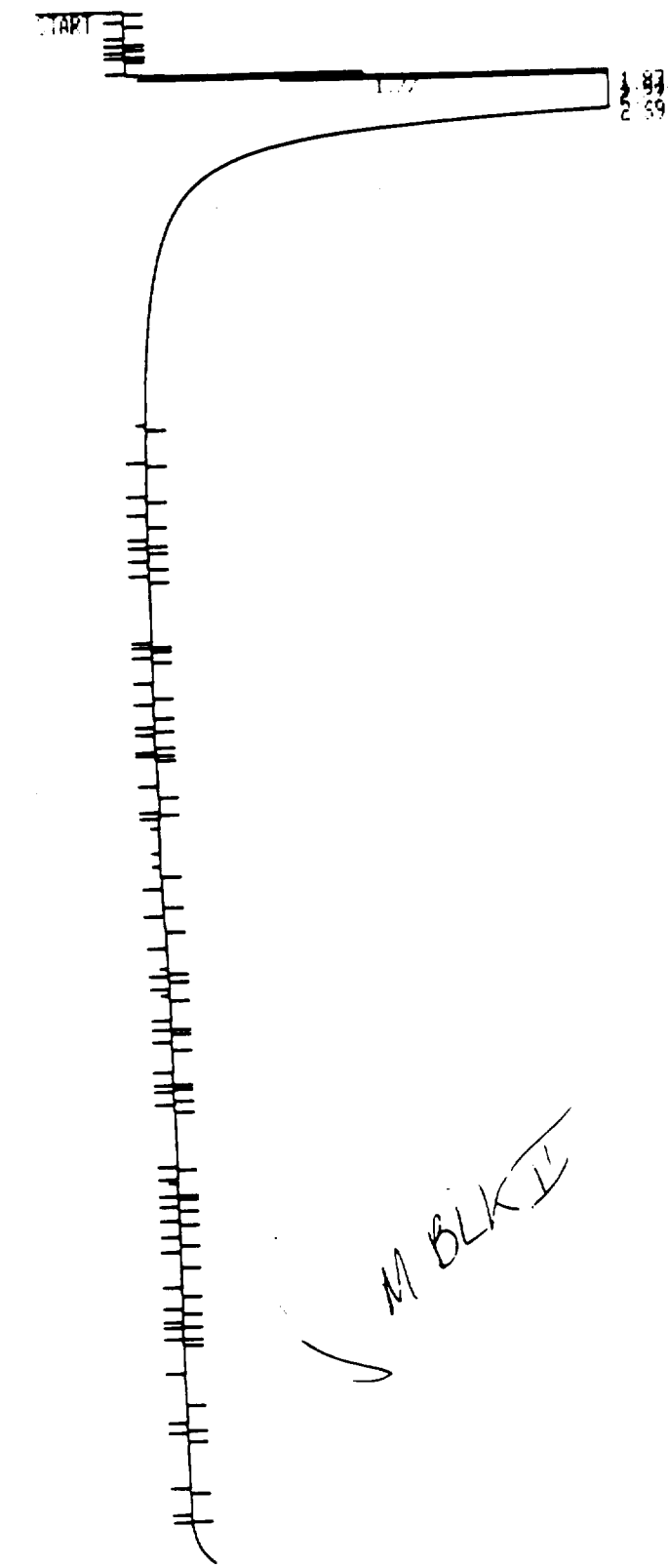
RT	AREA	TYPE	AR/HT	AREA%
1.74	6.7635E+07	†SPB	0.135	100.000

TOTAL AREA= 6.7635E+07
MUL FACTOR= 1.0000E+00

052-05

2 2 0835

M-BIK-II (c/w)



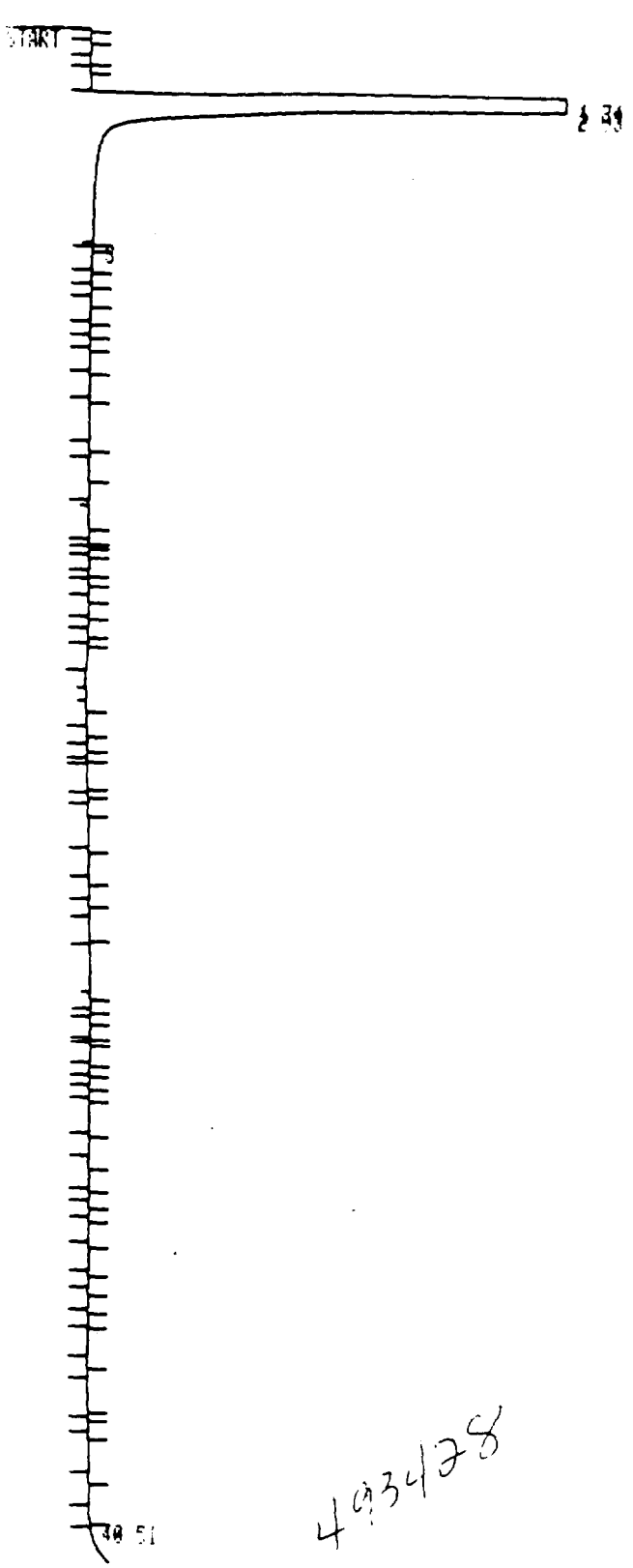
RUN # 576
WORKFILE ID: C
WORKFILE NAME
SAMPLE # 4

AREA% RT	AREA	TYPE	AR/HT	AREA%
1.77	69500	PV	0.040	0.066
1.87	367860	VH	0.033	0.349
1.97	1.0327E+08	†SHB	0.205	97.899
2.27	1769300	TBB	0.042	1.677
2.69	9335	DTBB	0.029	0.009

TOTAL AREA= 1.0548E+08
MUL FACTOR= 1.0000E+00

052-06
2 2 0836

Sample # 7332
Lab # 493428



RUN # 577
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 5

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.74	6.6901E+07	†SBH	0.133	89.749
2.03	7641200	SHB	0.063	10.251

TOTAL AREA= 7.4542E+07
MUL FACTOR= 1.0000E+00

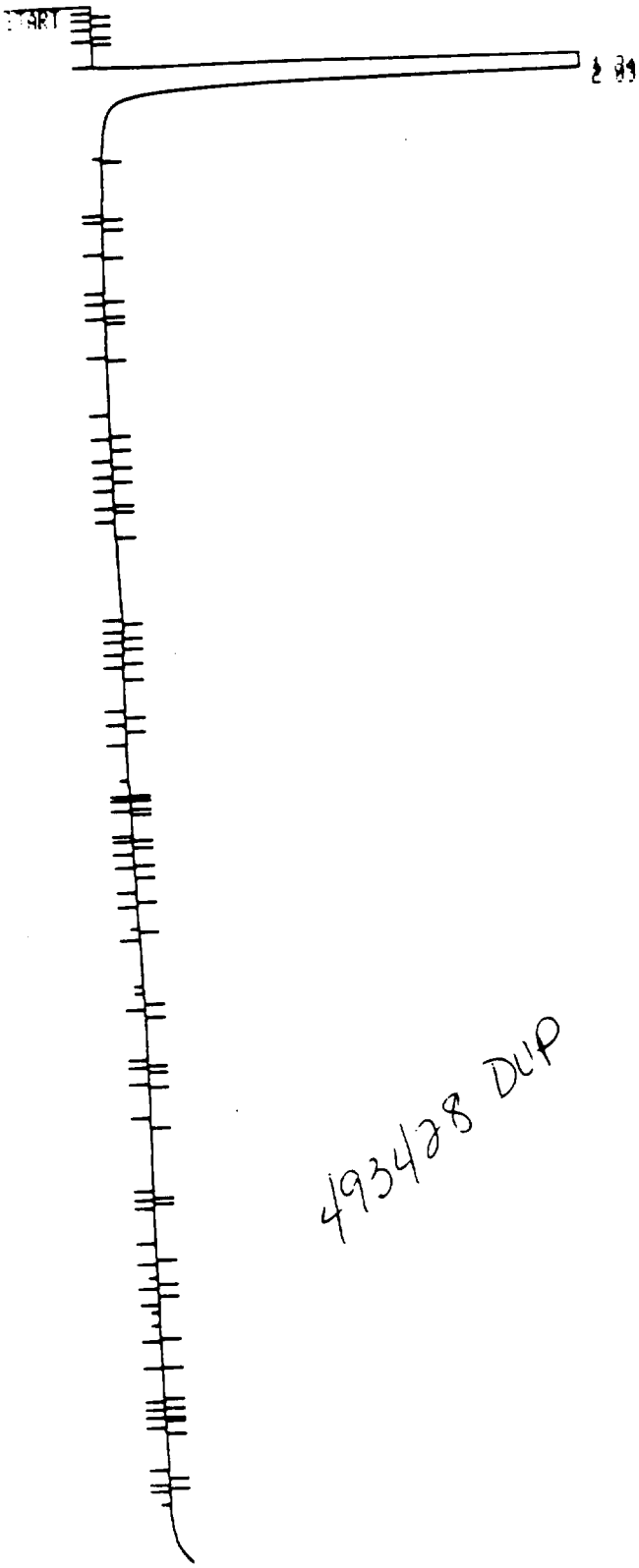
493428

No

052-07

2 2 0837

Sample# 7332 Dup
Lab # 493428
RUN # 578
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 6



AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.74	6.6983E+07	↑SBH	0.133	91.705
2.03	6059200	SHB	0.065	8.295

TOTAL AREA= 7.3043E+07
MUL FACTOR= 1.0000E+00

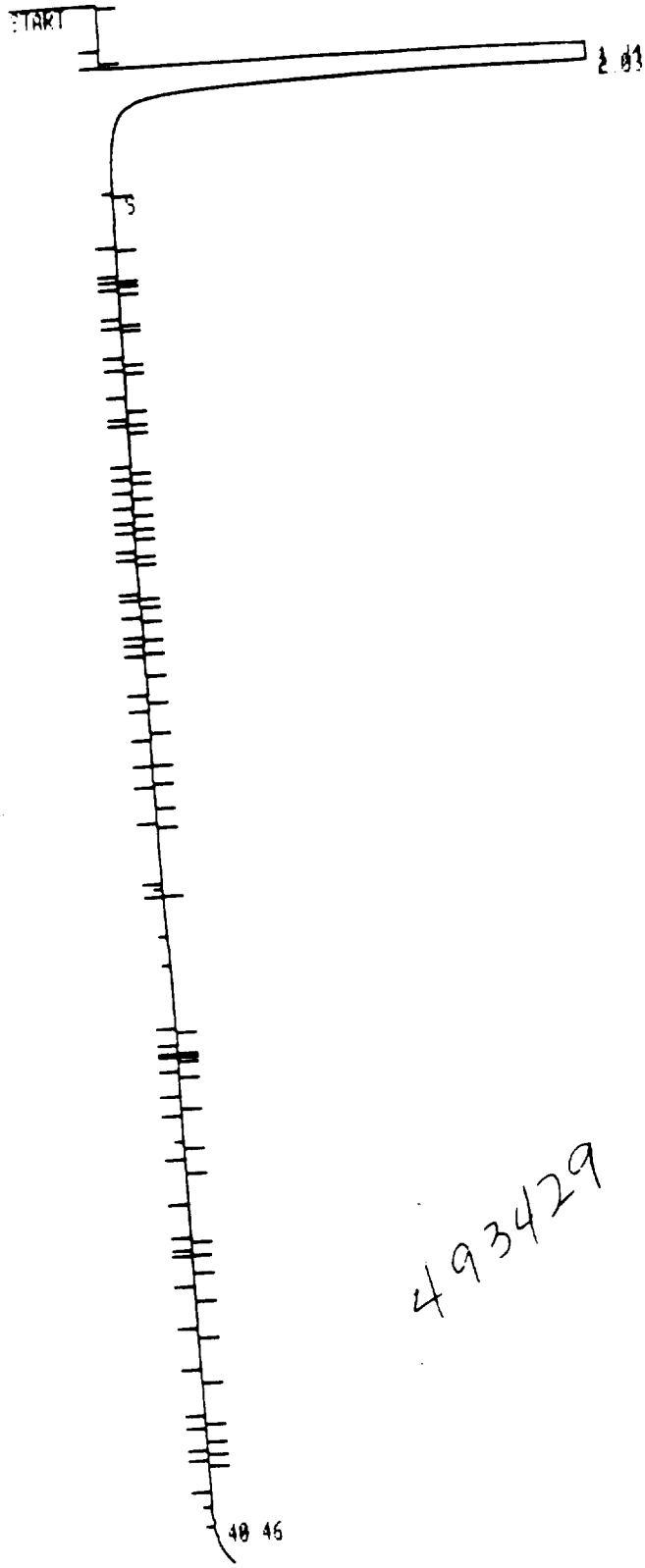
No

052-08

2 2 0838

Sample # T333
Lab # 493429

RUN # 579
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 7



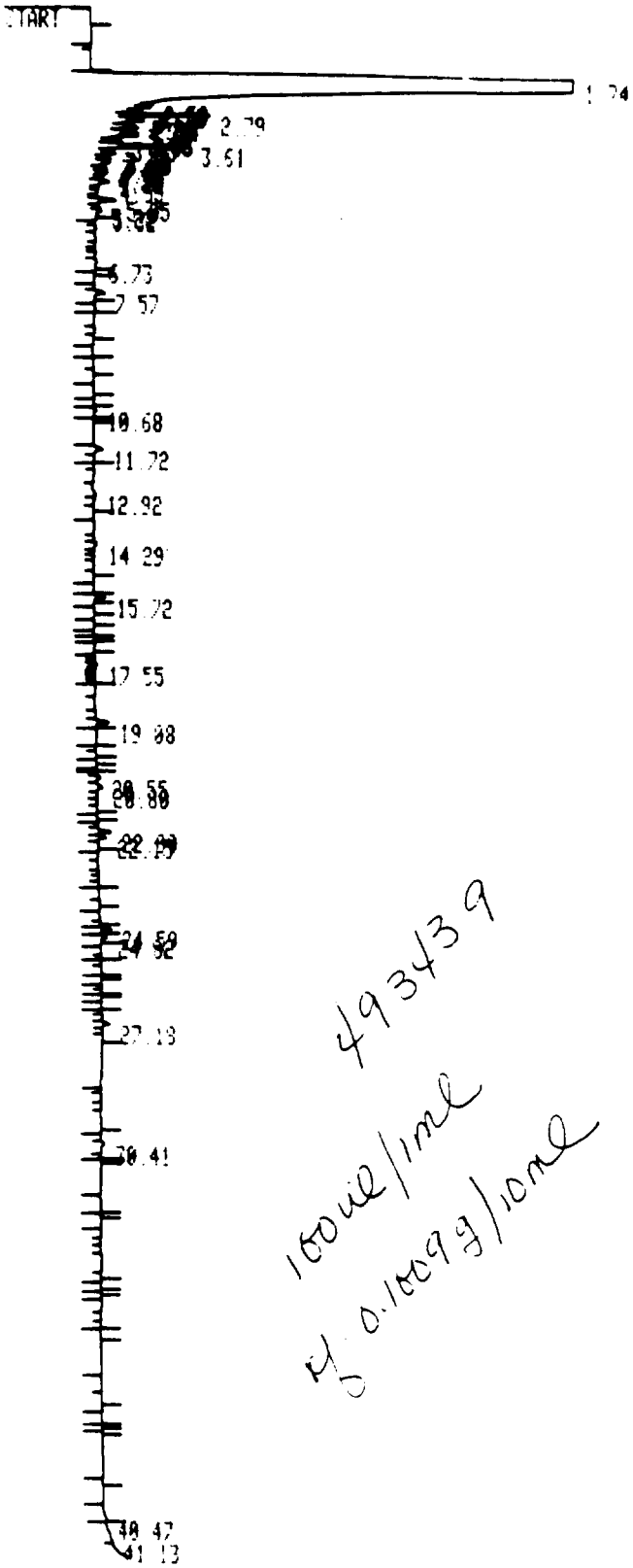
AREA% RT	AREA	TYPE	AR/HT	AREA%
1.74	6.7420E+07	†SBH	0.134	67.584
2.03	3.2335E+07	†SHB	0.064	32.414
40.46	2430	PV	0.143	0.002

TOTAL AREA= 9.9757E+07
MUL FACTOR= 1.0000E+00

493429

No

052-09
2 2 0839
Sample No: 7334 (oil)
Lab No: 493439



493439
100ul/1ml
Rf 0.1009g/10ml

RUN # 593
WORKFILE ID: C
WORKFILE NAME
SAMPLE # 21

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.74	6.7952E+07	↑SBB	0.135	99.641
2.50	1400	TBV	0.036	0.002
2.58	2887	TVV	0.041	0.004
2.68	3940	TVP	0.052	0.006
2.79	30488	TPV	0.050	0.045
2.88	6004	TVV	0.048	0.009
2.94	10168	TVV	0.065	0.015
3.12	12497	TVV	0.088	0.018
3.26	14648	TVV	0.087	0.022
3.33	9165	TVP	0.051	0.013
3.45	4012	TPP	0.046	0.006
3.61	38954	TPV	0.066	0.057
3.73	3187	TVV	0.054	0.005
3.80	4488	TVV	0.059	0.007
3.91	4197	TVV	0.078	0.006
4.02	5756	TVP	0.103	0.008
4.20	3101	TPV	0.064	0.005
4.30	4444	TVV	0.075	0.007
4.55	4727	TPV	0.064	0.007
5.05	7878	TVV	0.064	0.012
5.22	1380	TVV	0.072	0.002
5.32	2683	TVB	0.080	0.004
6.73	1916	PB	0.100	0.003
7.57	4863	PB	0.071	0.007
10.68	1365	BB	0.079	0.002
11.72	5011	BV	0.083	0.007
12.92	1464	PV	0.089	0.002
14.29	2395	VV	0.089	0.004
15.72	4925	PB	0.063	0.007
17.55	1219	VV	0.061	0.002
19.08	5158	PB	0.060	0.008
20.55	2808	VV	0.087	0.004
20.80	3762	VV	0.092	0.006
22.00	5262	VV	0.056	0.008
22.15	4578	VV	0.076	0.007
24.59	3448	BB	0.051	0.005
24.82	3300	BB	0.072	0.005
27.18	3519	PV	0.067	0.005
30.41	2425	VV	0.095	0.004
41.13	11619	BV	0.258	0.017

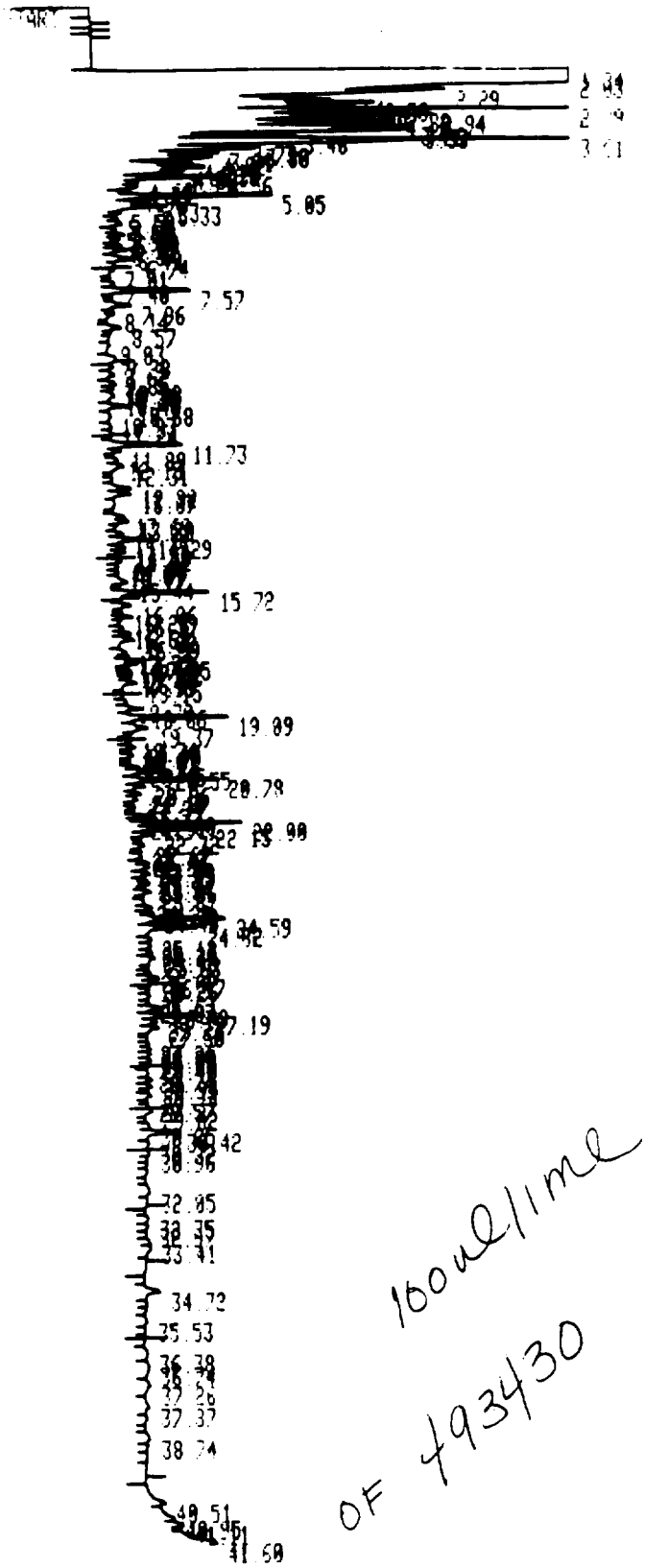
TOTAL AREA= 6.8197E+07
MUL FACTOR= 1.0000E+00

2 2 0840 052-10

Sample No: 7334 (L/W)

Lab No: 493430

Run No: 594



100 ml/1 ml

OF 493430

2 2 0841 052-11

Sample # 7334 (L/W)
Lab # 493430

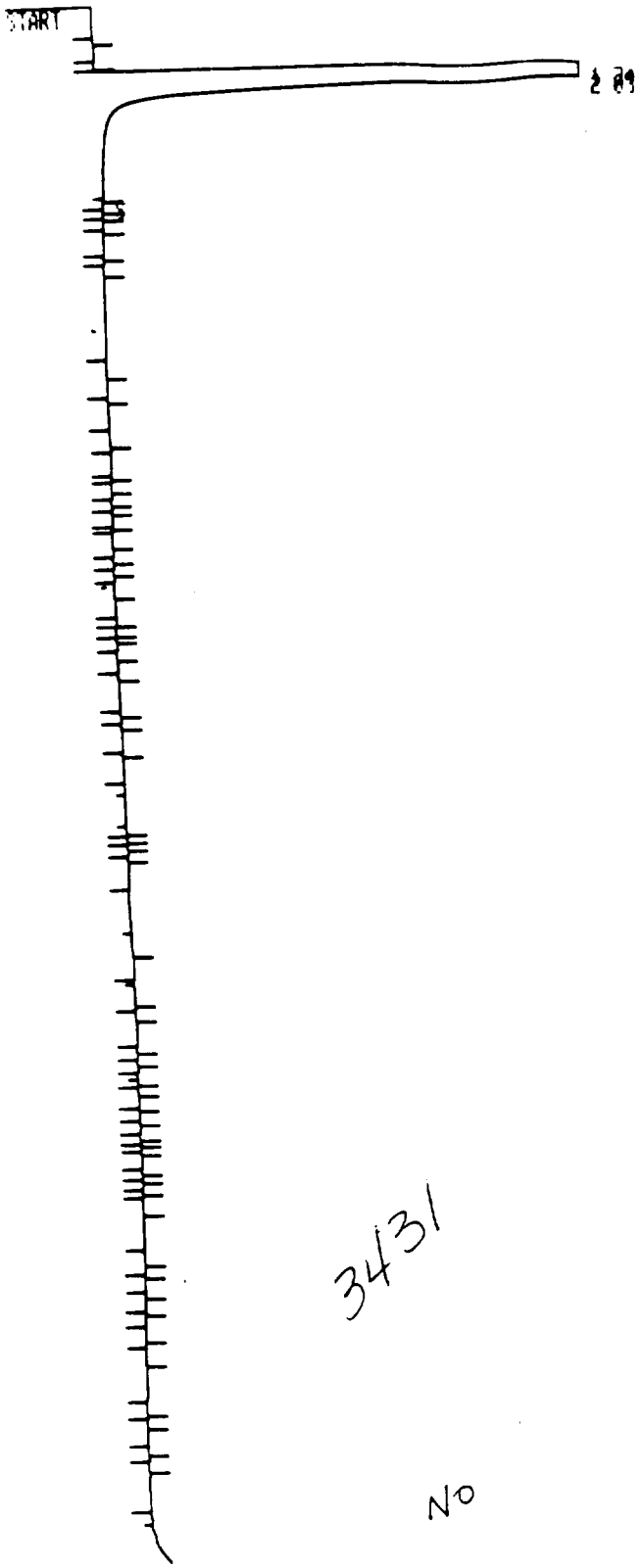
RUN # 594
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 22

AREA% RT	AREA	TYPE	AR/HT	AREA%
1.74	6.9262E+07	TBB	0.130	91.705
2.03	2873200	TBB	0.050	3.804
2.29	66380	TBP	0.077	0.088
2.45	9844	TPV	0.042	0.013
2.51	32001	TVV	0.049	0.042
2.58	54090	TVV	0.054	0.072
2.68	66173	TVV	0.024	0.088
2.79	260730	TVV	0.050	0.356
2.88	64907	TVV	0.050	0.086
2.94	113340	TVV	0.071	0.150
3.12	140750	TVV	0.101	0.186
3.26	145360	TVV	0.092	0.193
3.33	87175	TVV	0.053	0.115
3.46	42325	TVV	0.051	0.056
3.61	331200	TVV	0.065	0.439
3.73	30795	TVV	0.054	0.041
3.80	42449	TVV	0.061	0.056
3.91	39380	TVV	0.081	0.052
4.02	49451	TVP	0.102	0.066
4.21	26569	TPV	0.064	0.035
4.30	38930	TVV	0.075	0.052
4.38	20266	TVV	0.053	0.027
4.44	18125	DTVV	0.052	0.024
4.56	44571	TVV	0.066	0.059
4.68	9682	TVV	0.085	0.013
4.79	13411	TVP	0.108	0.018
4.96	5966	TPV	0.053	0.008
5.05	77772	TVV	0.068	0.103
5.23	19530	TVV	0.088	0.026
5.33	36429	TVV	0.093	0.048
5.50	3816	TVP	0.060	0.005
5.66	4475	TPV	0.086	0.006
5.79	10174	TVP	0.115	0.014
5.99	4946	TPV	0.093	0.007
6.09	8669	TVV	0.080	0.012
6.19	4239	TVV	0.059	0.006
6.37	5338	TVV	0.066	0.007
6.49	8992	TVP	0.075	0.012
6.74	14416	TPV	0.087	0.019
7.01	1150	BP	0.048	0.002
7.40	4757	VV	0.097	0.006
7.57	43677	VV	0.073	0.058
7.96	17559	VV	0.183	0.023
8.14	3632	VV	0.072	0.005
8.57	9958	PV	0.092	0.013
9.03	3364	VP	0.131	0.005
9.38	2456	PB	0.072	0.003
9.62	2031	BP	0.075	0.003
9.85	4749	PP	0.090	0.006
10.08	5863	PV	0.088	0.008
10.20	4183	VV	0.095	0.005
10.40	8157	VV	0.145	0.011
10.68	11716	VV	0.080	0.016
10.93	3423	VP	0.151	0.005
11.24	1804	PV	0.095	0.002
11.73	42508	PV	0.083	0.056
11.39	6152	VV	0.085	0.008
12.13	6830	VV	0.120	0.009
12.31	12431	VV	0.136	0.017
12.92	12384	PV	0.087	0.016
13.07	13674	VV	0.099	0.018
13.59	7882	PV	0.093	0.010
13.80	10546	VV	0.096	0.014
14.14	5090	VV	0.076	0.007
14.29	20762	VV	0.090	0.028
14.50	5663	VV	0.079	0.008
14.62	4757	VV	0.070	0.006
14.86	3898	BP	0.088	0.005
15.01	1934	PP	0.073	0.003
15.17	1609	PP	0.057	0.002
15.44	8242	PV	0.108	0.011
15.72	41965	VB	0.064	0.056
16.06	7071	PV	0.084	0.009
16.26	2506	VV	0.074	0.003
16.37	6380	VV	0.063	0.009
16.69	4026	PV	0.092	0.005
16.82	7328	VV	0.076	0.010
16.99	12000	VP	0.104	0.016
17.35	5556	PV	0.096	0.007
17.43	4682	VV	0.069	0.006
17.55	13081	VV	0.070	0.017
17.62	8722	VV	0.070	0.012
17.73	3799	VV	0.062	0.005
17.83	5068	VV	0.067	0.007
17.91	4877	VV	0.058	0.007
17.99	5369	VV	0.076	0.007
18.15	11951	VV	0.112	0.016
18.70	3447	PV	0.103	0.005
18.86	11121	VV	0.086	0.015
19.09	50219	VV	0.067	0.067
19.37	23270	VV	0.144	0.031
19.74	2235	PP	0.062	0.003
19.90	4036	PV	0.064	0.005
20.01	2738	VV	0.072	0.004
20.11	3467	VV	0.078	0.005
20.45	5256	VV	0.061	0.007
20.55	23639	VV	0.080	0.031
20.78	44616	VV	0.060	0.059
20.96	9522	VV	0.086	0.013
21.19	6707	VV	0.085	0.009
21.34	5747	VV	0.111	0.008
21.57	2451	VV	0.070	0.003
21.80	8729	VV	0.060	0.012
21.91	3697	VV	0.050	0.005
22.00	45451	VV	0.057	0.060
22.15	43315	VV	0.083	0.057
22.32	14670	VV	0.100	0.019
22.62	8023	VV	0.105	0.011
22.77	3569	VV	0.074	0.005
22.91	7069	VV	0.133	0.009
23.09	6366	VV	0.069	0.008
23.19	12245	VV	0.135	0.016
23.37	9452	VV	0.099	0.013
23.54	4493	VV	0.066	0.006
23.61	5403	VV	0.064	0.007
23.87	9085	VV	0.096	0.012
24.20	6362	VV	0.142	0.008
24.30	9066	VV	0.102	0.012
24.43	6053	VV	0.065	0.008
24.59	44262	VV	0.072	0.059
24.82	40931	VV	0.101	0.054
25.12	7631	VV	0.117	0.010
25.29	9667	VV	0.142	0.012
25.48	6945	VV	0.105	0.009
25.63	12237	VV	0.156	0.016
26.02	3292	VP	0.075	0.004
26.17	5422	PV	0.064	0.007
26.26	851	VB	0.043	0.001
26.63	2517	PV	0.100	0.003
26.83	1545	VV	0.077	0.002
26.99	11073	VP	0.095	0.015
27.19	27392	PV	0.065	0.036
27.33	8056	VV	0.106	0.011
27.50	9448	VV	0.113	0.013
27.96	1584	VV	0.084	0.002
28.08	2067	VV	0.086	0.003
28.22	1626	VP	0.067	0.002
28.40	1683	PP	0.062	0.002
28.74	3740	PV	0.138	0.005
28.94	4793	VP	0.085	0.006
29.12	4257	PV	0.081	0.006
29.37	3972	VP	0.096	0.005
29.57	667	PV	0.056	8.8314E-04
29.82	4069	BP	0.123	0.005
30.25	4346	VV	0.136	0.006
30.42	21269	VV	0.099	0.028
30.72	2575	VB	0.100	0.003
30.96	2321	PV	0.110	0.003
32.05	5747	VV	0.198	0.008
32.75	3497	PV	0.137	0.005
32.97	2403	VV	0.097	0.003
33.41	3952	PV	0.115	0.005
34.72	16501	VV	0.146	0.022
35.53	3235	PV	0.154	0.004
36.38	7736	PV	0.229	0.010
36.74	13183	VV	0.348	0.019
37.26	10897	VV	0.251	0.014
37.97	8093	VV	0.228	0.011
38.74	7778	VV	0.206	0.010
40.51	28548	BV	0.210	0.038
40.95	57911	VV	0.278	0.077
41.11	38288	VV	0.144	0.051
41.60	137450	I VV	0.272	0.182

TOTAL AREA= 7.5526E+07
MUL FACTOR= 1.0000E+00

2 2 0842 052-12

Sample# 7346
Lab# 493431



RUN # 580
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 3

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.74	6.6147E+07	†SPH	0.132	89.463
2.03	7790600	SHB	0.062	10.537

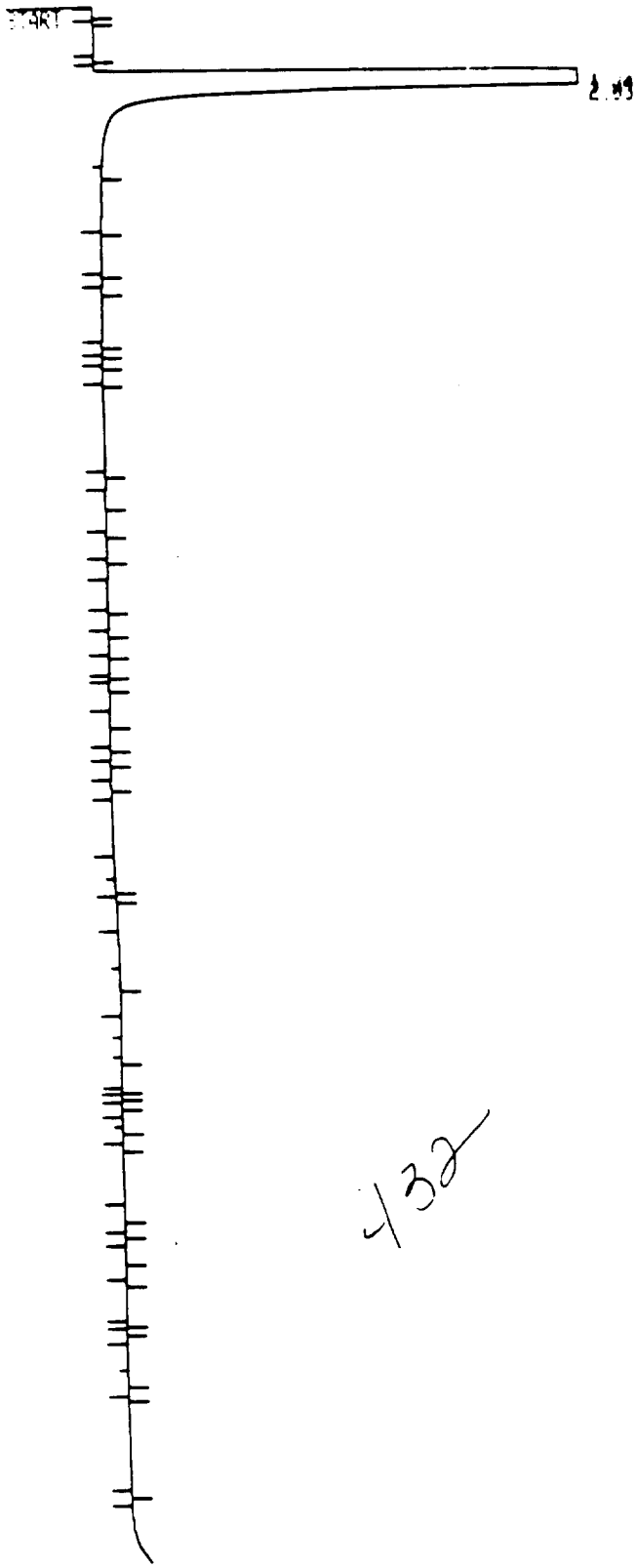
TOTAL AREA= 7.3938E+07
MUL FACTOR= 1.0000E+00

3431

NO

2 2 0843 052-13

Sample# 7335
Lab# 493432



RUN # 581
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 9

AREA%

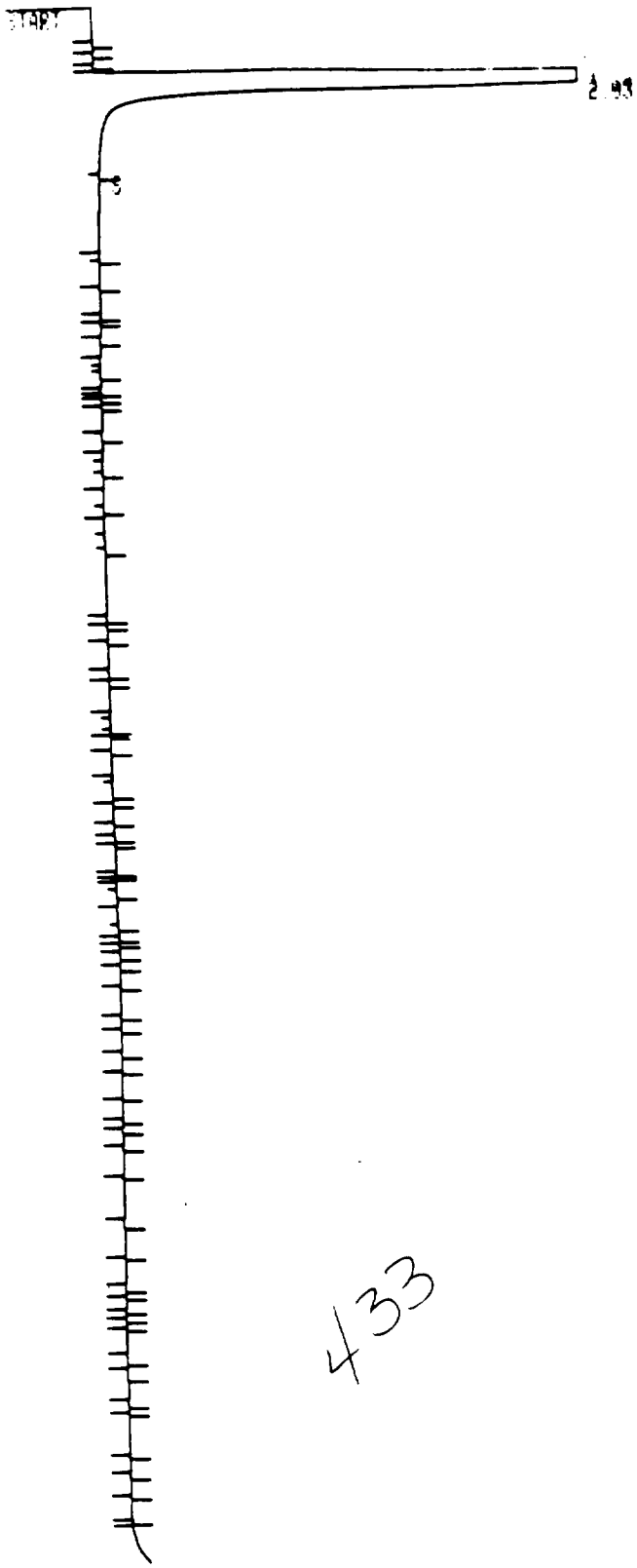
RT	AREA	TYPE	AR/HT	AREA%
1.74	6.6076E+07	↑SPH	0.131	70.154
2.03	2.8112E+07	↑SHB	0.056	29.846

TOTAL AREA= 9.4188E+07
MUL FACTOR= 1.0000E+00

432

2 2 0844 052-14

Sample # 7353
Lab # 493433



RUN # 582
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 10

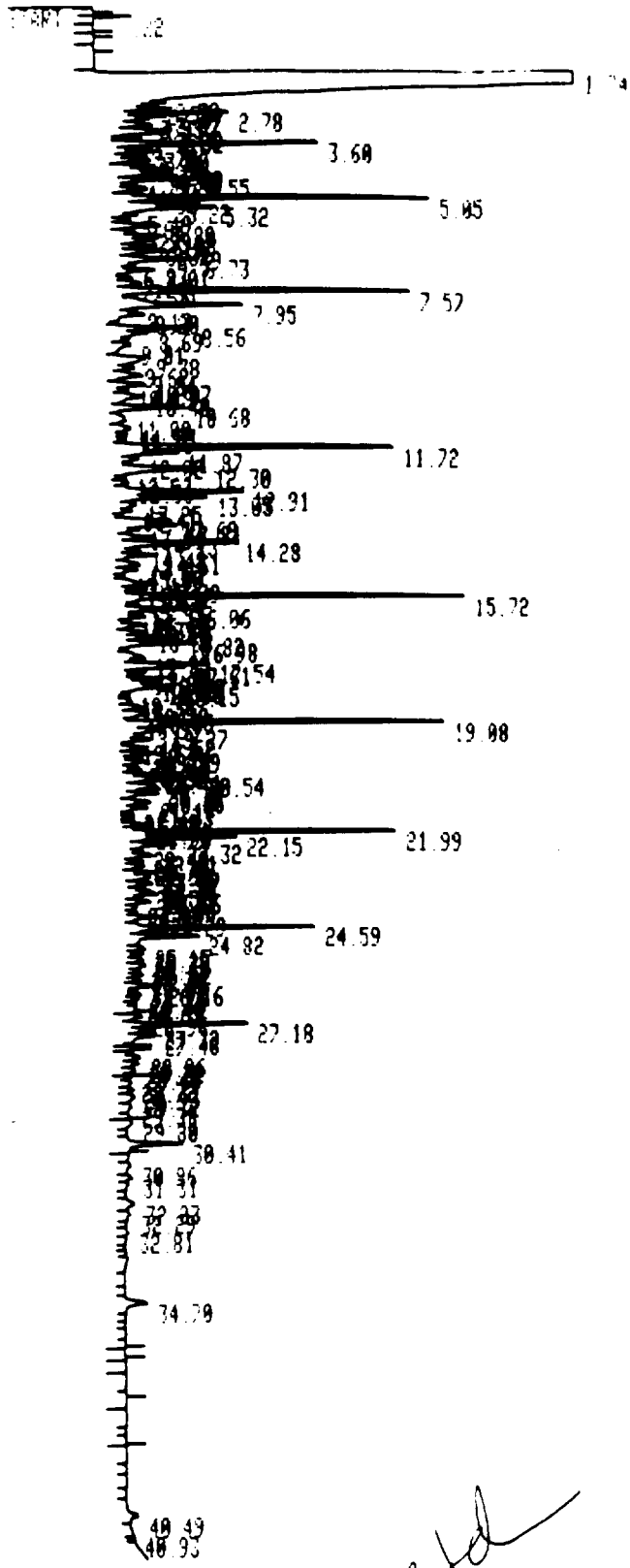
AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.74	6.8892E+07	↑SBB	0.137	96.724
2.03	2333500	TBB	0.052	3.276

TOTAL AREA= 7.1226E+07
MUL FACTOR= 1.0000E+00

2 2 0845052-15

Standard Diesel Fuel #2
Run # 583



521

2 2 0846052-16

Standard Diesel Fuel #2

16.68	17195	THM	0.090	0.023
16.82	32824	THM	0.079	0.045
16.98	45747	THM	0.089	0.062
17.35	20548	THM	0.122	0.028
17.42	11646	THM	0.067	0.016
17.54	45100	THM	0.071	0.062
17.61	30893	THM	0.067	0.042
17.73	12079	THM	0.067	0.017
17.81	10343	THM	0.071	0.014
17.90	17147	THM	0.063	0.023
17.99	15174	THM	0.070	0.021
18.08	18869	THM	0.074	0.026
18.15	31340	THM	0.083	0.043
18.30	3994	THM	0.069	0.005
18.51	8129	THM	0.116	0.011
18.70	17850	THM	0.119	0.024
18.86	27710	THM	0.140	0.038
18.99	4165	THM	0.042	0.006
19.08	162210	THM	0.070	0.221
19.27	32656	THV	0.114	0.045
19.52	15804	TVV	0.082	0.022
19.64	3823	TVV	0.058	0.005
19.74	14562	TVV	0.089	0.020
19.89	17570	TVV	0.078	0.024
20.01	10165	TVV	0.073	0.014
20.10	13912	TVV	0.091	0.019
20.25	7260	TVV	0.072	0.010
20.32	9773	TVV	0.077	0.013
20.44	15970	TVV	0.071	0.022
20.54	52359	TVV	0.097	0.071
20.78	37582	TVV	0.154	0.051
20.96	20471	TVV	0.083	0.028
21.18	17180	TVV	0.094	0.023
21.33	15200	TVV	0.093	0.021
21.48	4054	TVV	0.075	0.006
21.57	4297	TVV	0.072	0.006
21.67	5178	TVV	0.081	0.007
21.79	12074	TVV	0.083	0.017
21.90	8274	TVV	0.058	0.011
21.99	113370	TVV	0.058	0.155
22.15	68691	TVV	0.085	0.094
22.32	36606	TVV	0.101	0.050
22.49	11233	TVV	0.095	0.015
22.61	18510	TVV	0.101	0.025
22.76	8885	TVV	0.077	0.012
22.90	14582	TVV	0.112	0.020
23.07	14526	TVV	0.075	0.020
23.19	23839	TVV	0.144	0.033
23.36	16345	TVV	0.093	0.022
23.52	8446	TVV	0.065	0.012
23.59	12933	TVV	0.076	0.018
23.66	12478	TVV	0.061	0.017
23.86	14993	TVV	0.094	0.020
24.00	6913	TVV	0.113	0.009
24.15	6609	TVV	0.104	0.009
24.29	20458	TVV	0.089	0.028
24.59	86521	TVV	0.064	0.118
24.82	52379	TVV	0.105	0.071
25.15	11604	TVV	0.111	0.016
25.28	7567	TVV	0.078	0.010
25.48	10028	TVV	0.108	0.014
25.62	11993	TVV	0.115	0.016
25.76	5783	TVV	0.086	0.008
25.86	6541	TVV	0.082	0.009
26.02	5399	TVV	0.077	0.007
26.16	13122	TVV	0.068	0.018
26.38	3898	TVV	0.062	0.005
26.48	3433	TVP	0.072	0.005
26.61	1843	TPV	0.061	0.003
26.96	6550	BP	0.087	0.009
27.18	52928	PV	0.062	0.072
27.32	14682	VV	0.090	0.020
27.48	14527	VV	0.093	0.020
28.06	5248	VV	0.080	0.007
28.22	3306	VP	0.067	0.005
28.40	1884	PV	0.066	0.003
28.72	1951	PV	0.103	0.003
28.93	2928	VP	0.080	0.004
29.12	6798	PV	0.130	0.009
29.38	3398	VP	0.115	0.005
29.80	4441	BP	0.156	0.006
30.41	34556	PB	0.088	0.047
30.96	3236	PP	0.117	0.004
31.31	3555	PV	0.094	0.005
32.03	9033	PV	0.146	0.012
32.29	4738	VV	0.159	0.006
32.81	2586	PV	0.136	0.004
34.70	19073	PV	0.125	0.026
40.49	11496	PV	0.146	0.016
40.93	10020	VV	0.245	0.014

TOTAL AREA= 7.3399E+07
MUL FACTOR= 1.0000E+00

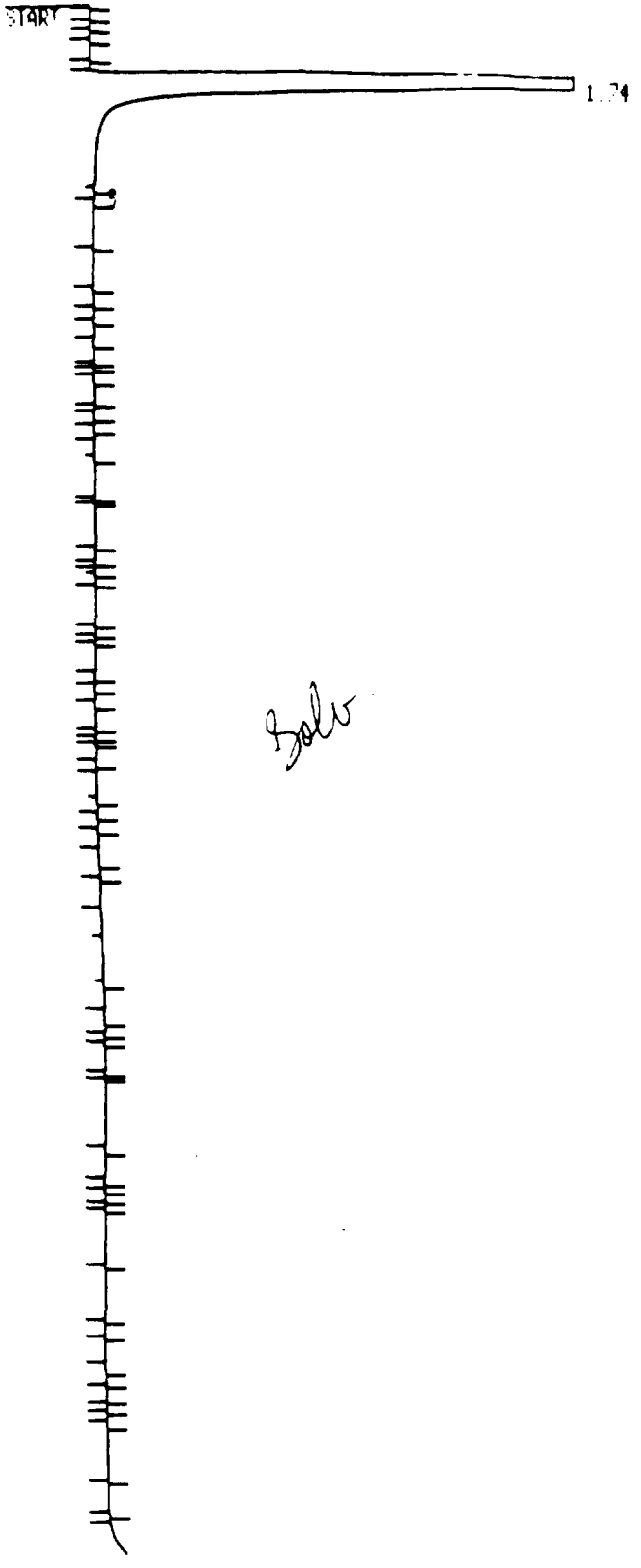
522

[illegible] 583
WORKFILE ID: C
WORKFILE NAME: [redacted]
SAMPLE # 11

AREA%

RT	AREA	TYPE	AH/HT	AREA%
0.22	4146	D BB	0.014	0.006
1.74	6.9104E+07	TSPB	0.137	94.148
2.50	2659	TBP	0.037	0.004
2.58	1752	TPP	0.031	0.002
2.67	12227	TPP	0.050	0.017
2.78	32586	TPH	0.047	0.044
2.87	11127	THH	0.042	0.015
2.93	6123	DTHP	0.053	0.008
3.11	12665	TPP	0.078	0.017
3.26	19066	TPH	0.070	0.027
3.32	15713	THP	0.050	0.021
3.45	6956	TPH	0.045	0.010
3.60	91858	THH	0.064	0.125
3.72	8666	THH	0.055	0.012
3.80	14233	THH	0.057	0.019
3.92	14432	THH	0.077	0.020
4.05	19882	THP	0.091	0.027
4.20	16323	TPH	0.063	0.022
4.30	26391	THH	0.074	0.036
4.37	15272	THH	0.051	0.021
4.43	21436	THH	0.061	0.029
4.55	38451	THH	0.070	0.052
4.67	10009	THH	0.082	0.014
4.80	20633	THH	0.103	0.028
4.96	9540	THH	0.053	0.013
5.05	148000	THH	0.066	0.202
5.22	33933	THH	0.083	0.046
5.32	63551	THH	0.093	0.087
5.49	8701	THH	0.069	0.012
5.63	5152	THH	0.069	0.007
5.80	27059	THP	0.092	0.037
5.99	10328	TPH	0.086	0.014
6.08	26231	THH	0.086	0.036
6.19	24819	THH	0.118	0.034
6.37	19867	THH	0.070	0.027
6.49	31538	THH	0.093	0.043
6.73	53527	THH	0.090	0.073
6.93	4369	THH	0.048	0.006
7.01	20264	THH	0.081	0.028
7.24	6619	THH	0.076	0.009
7.38	16258	THH	0.109	0.022
7.57	153490	THH	0.074	0.209
7.95	92877	THH	0.106	0.127
8.13	7467	THH	0.066	0.010
8.20	13756	THP	0.078	0.019
8.56	47831	TPH	0.086	0.065
8.69	26689	THH	0.112	0.036
9.01	15722	THP	0.140	0.021
9.38	38854	TPH	0.176	0.053
9.62	14629	THH	0.105	0.020
9.84	23241	THH	0.121	0.032
10.07	19815	THH	0.092	0.027
10.19	8035	THH	0.091	0.011
10.40	29349	THH	0.146	0.040
10.68	41686	THH	0.084	0.057
11.00	11137	THH	0.173	0.015
11.23	13104	THH	0.124	0.018
11.36	6513	THH	0.084	0.009
11.72	172660	THH	0.086	0.235
11.87	39912	THH	0.092	0.054
12.02	16380	THH	0.109	0.022
12.30	80929	THH	0.128	0.110
12.53	5141	THH	0.084	0.007
12.66	8381	THH	0.104	0.011
12.91	82691	THH	0.091	0.113
13.05	63783	THH	0.099	0.087
13.25	17585	THH	0.132	0.024
13.41	10138	THH	0.099	0.014
13.69	38793	THH	0.100	0.053
13.81	40554	THH	0.097	0.055
13.91	12700	THH	0.086	0.017
14.13	25611	THH	0.104	0.035
14.28	80332	THH	0.096	0.110
14.48	15776	THH	0.102	0.022
14.61	24147	THH	0.092	0.033
14.87	18880	THH	0.127	0.026
15.00	12486	THH	0.096	0.017
15.17	3823	THH	0.085	0.005
15.39	27353	THH	0.100	0.037
15.52	15856	THH	0.081	0.022
15.61	7355	THH	0.062	0.010
15.72	178000	THH	0.071	0.243
15.93	12138	THH	0.088	0.017
16.06	41376	THH	0.088	0.056
16.17	11512	THH	0.073	0.016
16.26	15492	THH	0.086	0.021
16.39	4795	THH	0.066	0.007
16.48	16918	THH	0.182	0.023

2 2 0847 052-17



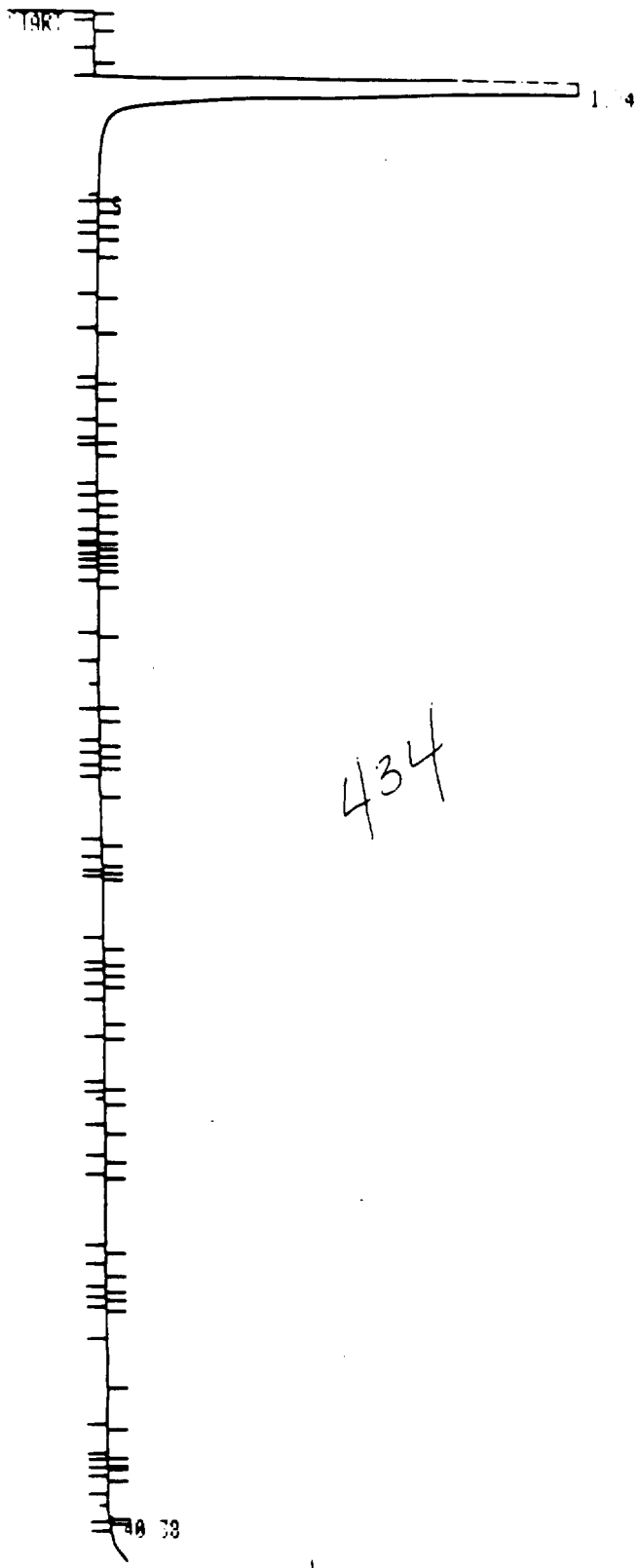
Solvent Freon 113

RUN # 584
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 12

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.74	6.7432E+07	†SBB	0.134	100.000

TOTAL AREA= 6.7432E+07
MUL FACTOR= 1.0000E+00



Sample # 7341
Lab # 493434

RUN # 585
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 13

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.74	6.7538E+07	†SBB	0.134	100.000

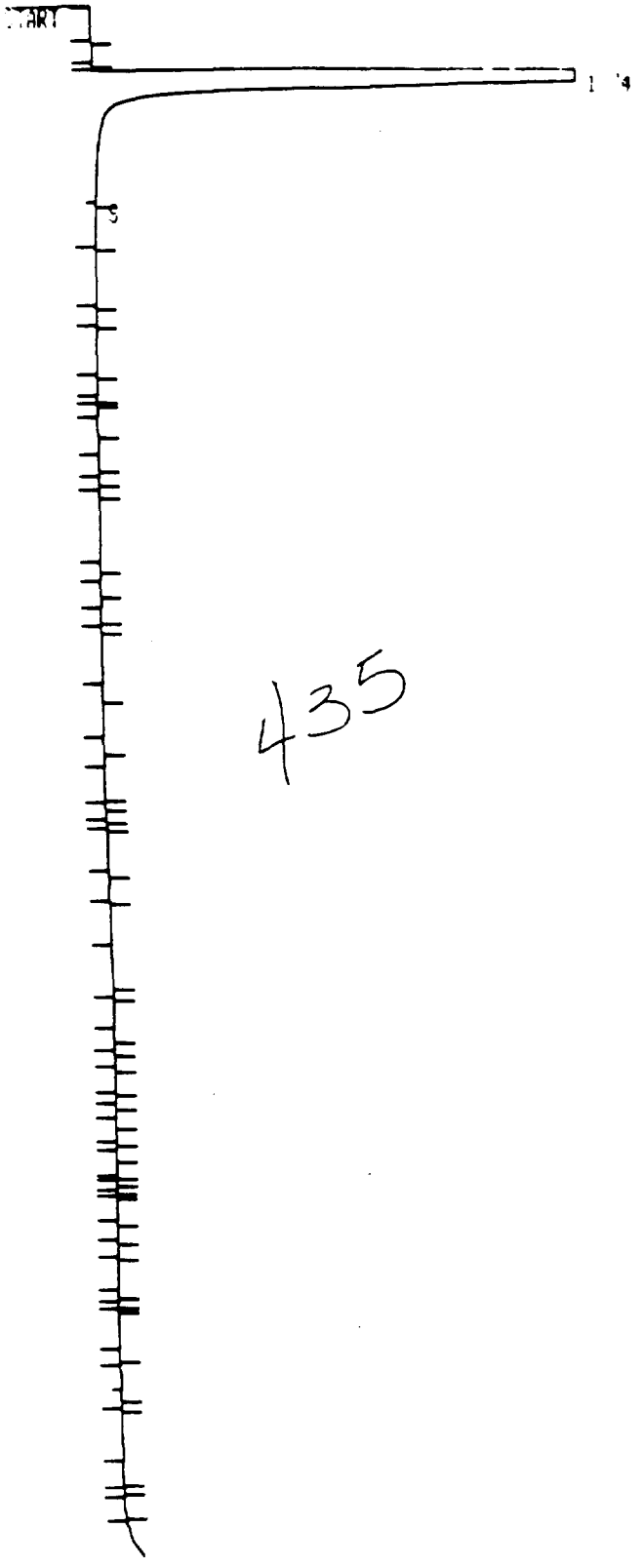
TOTAL AREA= 6.7538E+07
MUL FACTOR= 1.0000E+00

434

No

052-19

2 2 0849



435

Sample # 1342
Lab # 493435

RUN # 586
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 14

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.74	6.8436E+07	†SPB	0.136	100.000

TOTAL AREA= 6.8436E+07
MUL FACTOR= 1.0000E+00

No

052-20

2 2 0800

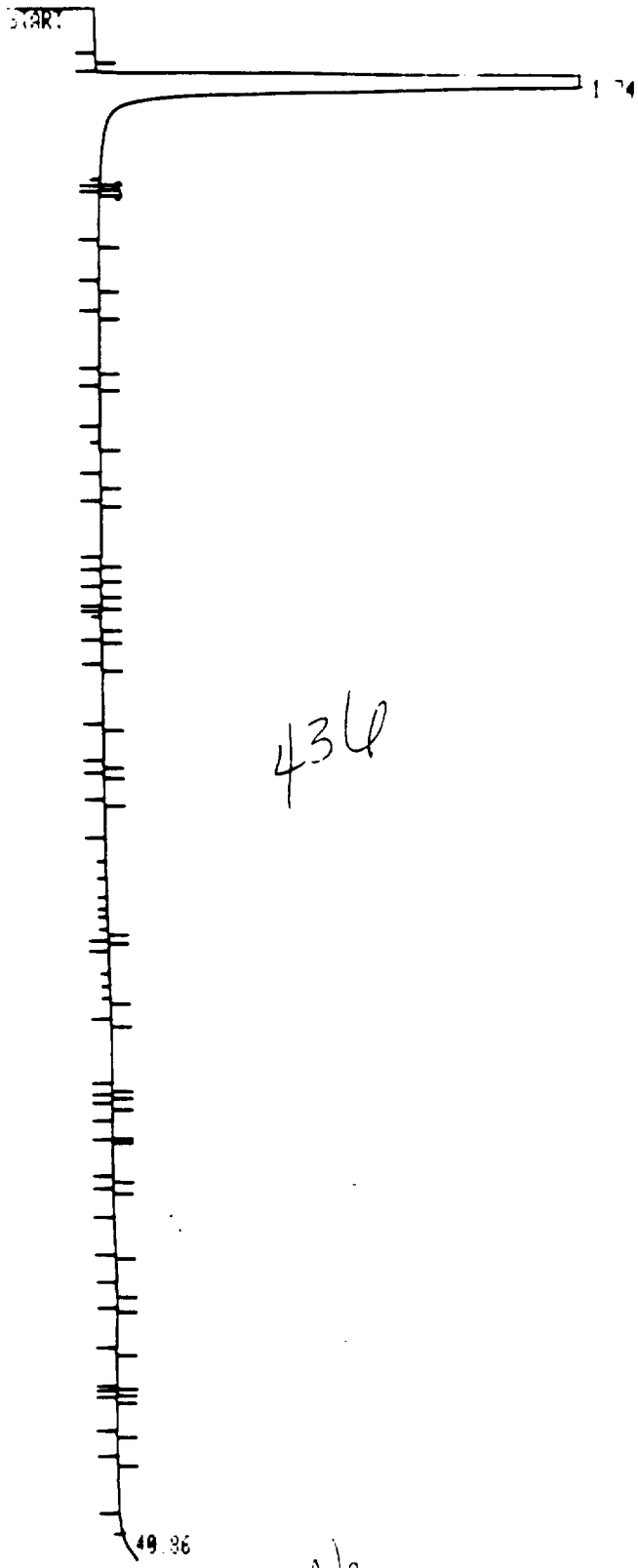
Sample # 7344
Lab # 493436

RUN # 587
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 15

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.74	6.8578E+07	†SPB	0.136	99.992
40.36	5285	BV	0.210	0.008

TOTAL AREA= 6.8583E+07
MUL FACTOR= 1.0000E+00



436

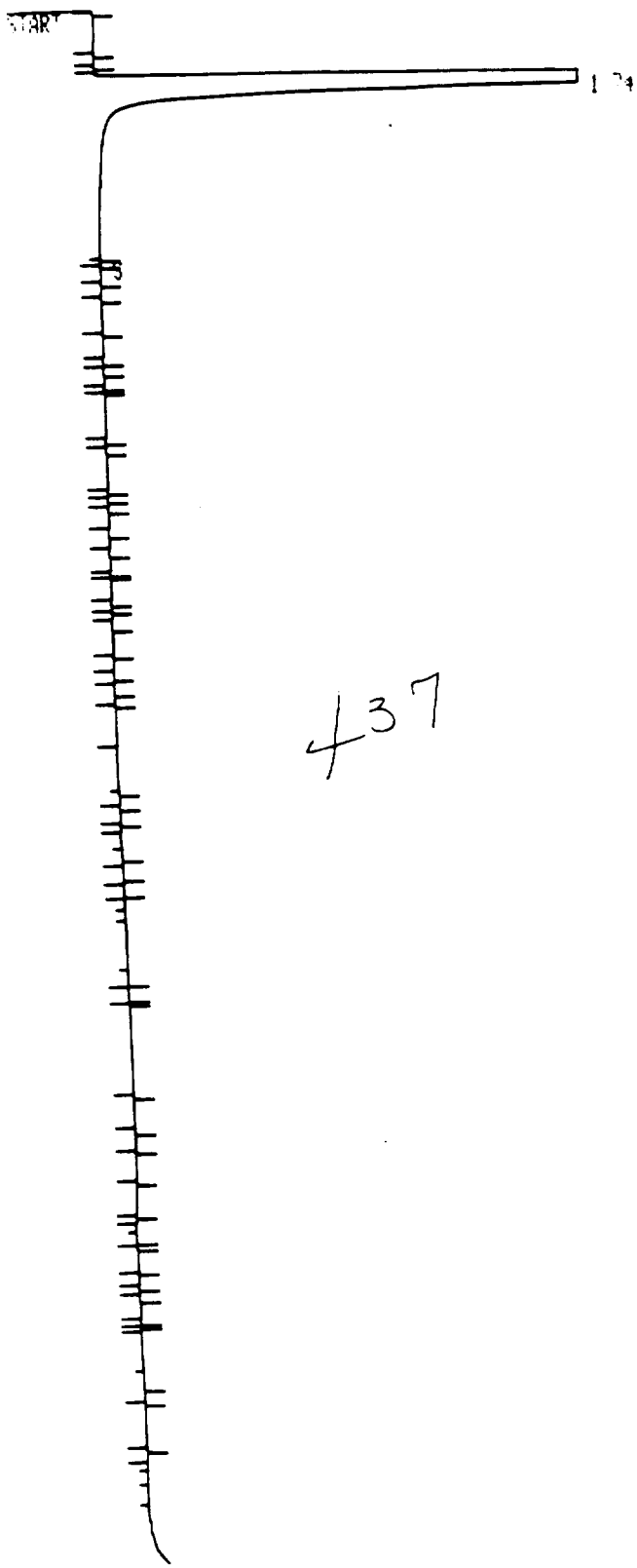
No

052-21

2 2 0851

Sample # 7345
Lab # 493437

RUN # 588
WORKFILE ID: C
WORKFILE NAME
SAMPLE # 16



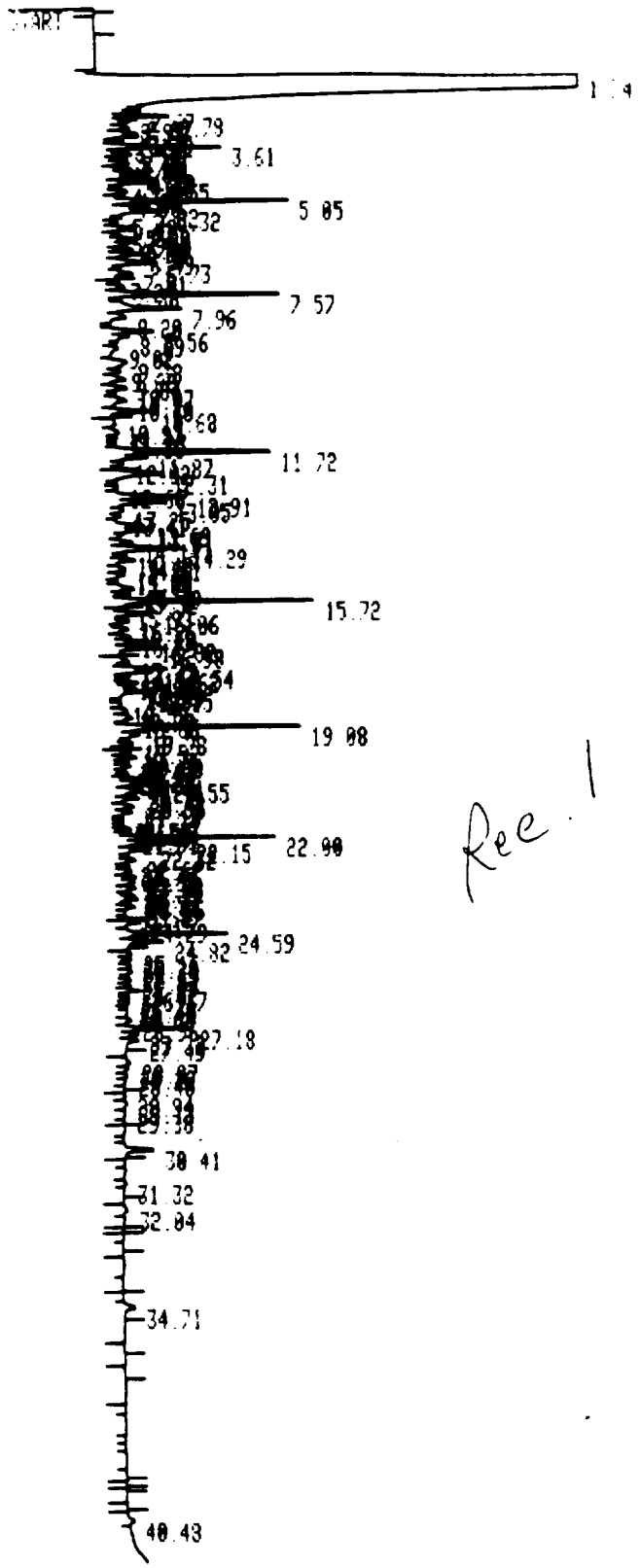
AREA% RT	AREA	TYPE	AR/HT	AREA%
1.74	6.7468E+07	†SPB	0.134	100.000

TOTAL AREA= 6.7468E+07
MUL FACTOR= 1.0000E+00

No

2 2 0852 052-22

Recovery #1
Run #589



Rec. 1

052-23

Recovery # 1 2 2 0853

RUN # 589
[redacted] ID: C
[redacted]
SAMPLE # 17

AREA%

RT	AREA	TYPE	AB/MH	AREA%
1.74	6.7704E+07	TMB	0.138	97.838
2.67	4657	TPP	0.055	0.007
2.78	16130	TPV	0.048	0.023
2.87	5542	TVV	0.048	0.008
2.93	3911	DTVV	0.059	0.006
3.11	7883	TVV	0.086	0.011
3.26	12283	TVV	0.074	0.018
3.32	9169	TVP	0.052	0.013
3.45	3619	TPV	0.046	0.005
3.61	50585	TVV	0.065	0.072
3.73	4839	TVV	0.056	0.007
3.80	8123	TVV	0.059	0.012
3.92	8494	TVV	0.080	0.012
4.05	11092	TVP	0.091	0.016
4.20	8923	TPV	0.063	0.013
4.30	14783	TVV	0.074	0.021
4.37	8416	TVV	0.052	0.012
4.43	11943	TVV	0.061	0.017
4.55	21285	TVV	0.070	0.031
4.68	5485	TVV	0.081	0.008
4.80	11259	TVV	0.102	0.016
4.96	5254	TVV	0.052	0.008
5.05	84382	TVV	0.066	0.121
5.22	18689	TVV	0.083	0.027
5.32	36158	TVV	0.094	0.052
5.49	4825	TVV	0.069	0.007
5.63	2812	TVV	0.069	0.004
5.80	15334	TVP	0.092	0.022
5.99	5638	TPV	0.087	0.008
6.09	14527	TVV	0.085	0.021
6.19	13236	TVV	0.115	0.019
6.37	10386	TVV	0.075	0.015
6.49	16180	TVV	0.088	0.023
6.73	27723	TVV	0.093	0.040
7.01	10183	TVB	0.083	0.015
7.24	2048	BV	0.059	0.003
7.38	7527	VV	0.101	0.011
7.57	87622	VV	0.073	0.125
7.96	55464	VV	0.111	0.079
8.20	15830	VV	0.137	0.023
8.56	27459	PV	0.087	0.039
8.69	15461	VV	0.112	0.022
9.02	9076	VP	0.141	0.013
9.38	22200	PV	0.175	0.032
9.62	8396	VV	0.105	0.012
9.84	13194	VP	0.119	0.019
10.07	11212	PV	0.091	0.016
10.40	15834	VV	0.141	0.023
10.68	22785	VB	0.081	0.033
10.97	4319	PP	0.144	0.006
11.23	5046	PV	0.103	0.007
11.36	2200	VV	0.079	0.003
11.72	92070	PV	0.083	0.132
11.87	17072	VV	0.083	0.024
12.02	2881	VV	0.076	0.004
12.31	34375	BP	0.109	0.049
12.56	2840	PV	0.084	0.004
12.91	44387	VV	0.087	0.064
13.05	33980	VV	0.094	0.049
13.25	8011	VV	0.126	0.012
13.41	4107	VV	0.091	0.006
13.69	20602	VV	0.098	0.030
13.91	21975	VV	0.097	0.032
14.14	11970	VV	0.093	0.017
14.29	43904	VV	0.094	0.063
14.48	7235	VV	0.094	0.010
14.61	11377	VV	0.083	0.016
14.87	8165	VV	0.113	0.012
15.00	4927	VP	0.078	0.007
15.39	10040	PV	0.085	0.014
15.52	5038	VV	0.066	0.007
15.72	89652	VB	0.065	0.128
15.93	997	BV	0.050	0.001
16.06	15672	VV	0.072	0.022
16.26	4492	VP	0.067	0.006
16.48	5656	VP	0.079	0.008
16.69	7353	PV	0.081	0.011
16.82	16057	VV	0.072	0.023
16.98	22470	VB	0.080	0.032
17.35	7038	BV	0.095	0.010
17.42	4950	VV	0.064	0.007
17.54	23486	VV	0.068	0.034
17.62	15434	VV	0.065	0.022
17.73	5098	VV	0.062	0.007
17.81	4091	VV	0.067	0.006
17.91	7086	VV	0.058	0.010
17.99	8738	VV	0.086	0.013

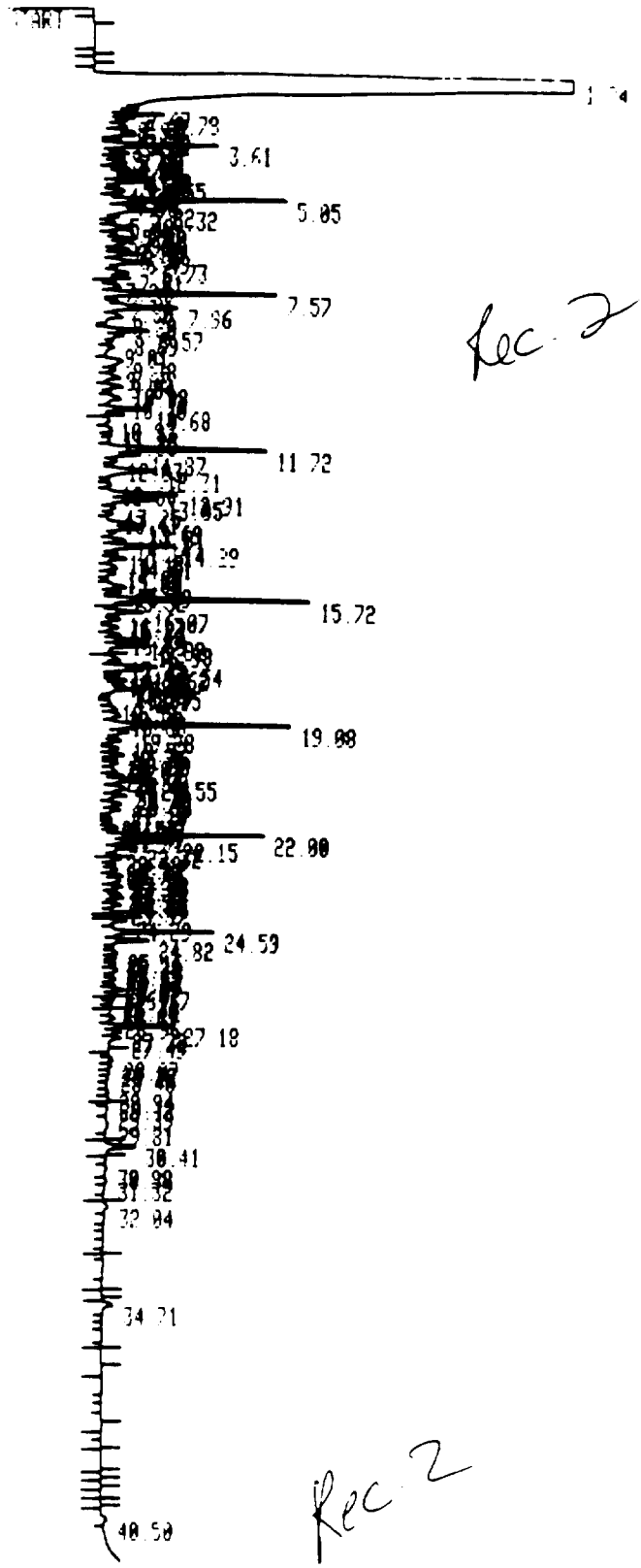
18.09	7407	VV	0.060	0.011
18.15	15424	VV	0.079	0.022
18.52	1451	PV	0.077	0.002
18.70	6133	VV	0.101	0.009
18.86	10797	VV	0.128	0.016
19.08	87510	VV	0.068	0.125
19.20	14884	VV	0.109	0.021
19.52	5436	VP	0.067	0.008
19.74	3958	BP	0.060	0.006
19.90	6668	PV	0.063	0.010
20.01	3458	VV	0.064	0.005
20.11	4709	VV	0.072	0.007
20.25	2197	VV	0.065	0.003
20.33	3486	VV	0.067	0.005
20.44	6789	VV	0.064	0.010
20.55	26145	VV	0.089	0.037
20.78	16896	VV	0.140	0.024
20.96	8473	VP	0.070	0.012
21.18	6396	PV	0.072	0.009
21.34	5971	VV	0.079	0.009
21.57	838	PV	0.050	0.001
21.68	1144	VV	0.064	0.002
21.79	4466	VV	0.071	0.006
21.91	3312	VV	0.052	0.005
22.00	61781	VV	0.056	0.088
22.15	36763	VV	0.082	0.053
22.32	17176	VV	0.091	0.025
22.62	7499	VV	0.088	0.011
22.77	2916	VV	0.065	0.004
22.90	4947	VP	0.090	0.007
23.08	6035	PV	0.066	0.009
23.19	10085	VV	0.134	0.014
23.37	6526	VV	0.078	0.009
23.53	2812	VV	0.053	0.004
23.61	5770	VV	0.075	0.008
23.66	5673	VV	0.060	0.008
23.87	5039	VV	0.072	0.007
24.15	289	PB	0.032	4.1369E-04
24.29	7011	BP	0.069	0.010
24.59	41961	PV	0.058	0.060
24.82	19632	VB	0.077	0.028
25.16	2997	BV	0.082	0.004
25.29	2131	VV	0.063	0.003
25.49	3471	VV	0.092	0.005
25.62	4758	VV	0.101	0.007
25.87	2831	VV	0.075	0.004
26.02	2473	VP	0.068	0.004
26.17	6999	PV	0.067	0.010
26.38	2333	VV	0.066	0.003
26.48	2209	VV	0.076	0.003
26.62	1575	VV	0.071	0.002
26.96	4419	VP	0.093	0.006
27.18	29398	PV	0.064	0.042
27.32	8581	VV	0.091	0.012
27.49	8386	VB	0.095	0.012
28.07	3416	BV	0.096	0.005
28.22	1825	VV	0.067	0.003
28.40	1407	VV	0.076	0.002
28.94	1426	BP	0.075	0.002
29.13	3711	PV	0.130	0.005
29.38	1927	VP	0.115	0.003
30.41	18707	PB	0.092	0.027
31.32	2883	PV	0.101	0.004
32.04	4674	BV	0.142	0.007
34.71	9853	PB	0.117	0.013
40.40	6024	BV	[illegible]	0.009

TOTAL AREA= 6.9858E+07
WB FACTOR= 1.0000E+00

529

2 2 0854 052-24

Recovery #2
Run # 590



2 2 0855 052-25

Recovery # 2

[redacted]

18.09	10673	VV	0.004	0.015
18.15	15094	VV	0.076	0.021
18.52	1775	PV	0.078	0.003
18.70	6820	VV	0.102	0.010
18.86	11935	VV	0.133	0.017
19.00	92532	VV	0.070	0.131
19.28	15815	VV	0.108	0.023
19.52	6515	VV	0.071	0.009
19.74	5286	VV	0.070	0.008
19.90	7399	VV	0.066	0.011
20.01	3851	VV	0.066	0.006
20.11	5310	VV	0.076	0.008
20.33	6204	VV	0.113	0.009
20.44	7128	VV	0.063	0.010
20.55	27128	VV	0.009	0.039
20.78	17418	VV	0.139	0.025
20.96	8605	VV	0.069	0.012
21.18	6710	VV	0.075	0.010
21.34	5679	VV	0.073	0.008
21.57	718	PP	0.045	0.001
21.68	774	PV	0.054	0.001
21.79	3574	VP	0.062	0.005
21.91	2455	PV	0.047	0.004
22.00	61148	VV	0.055	0.087
22.15	33545	VV	0.077	0.048
22.32	11712	VP	0.071	0.017
22.49	481	PB	0.039	6.8320E-04
22.62	4220	BP	0.068	0.006
22.77	2250	PV	0.060	0.003
22.90	4617	VP	0.087	0.007
23.08	6242	PV	0.067	0.009
23.19	10350	VV	0.131	0.015
23.37	6602	VV	0.078	0.009
23.53	2047	VV	0.054	0.004
23.60	5648	VV	0.072	0.008
23.66	5557	VV	0.058	0.008
23.87	4749	VV	0.068	0.007
24.29	7070	BP	0.068	0.010
24.59	45152	PV	0.060	0.064
24.82	23516	VV	0.085	0.033
25.16	4863	VV	0.097	0.007
25.29	3293	VV	0.074	0.005
25.49	4568	VV	0.100	0.007
25.62	5819	VV	0.108	0.008
25.87	3247	VV	0.078	0.005
26.02	2698	VP	0.072	0.004
26.17	6285	PV	0.063	0.009
26.38	835	BV	0.041	0.001
26.48	1331	VP	0.063	0.002
26.61	610	PB	0.053	8.6643E-04
26.96	3727	PP	0.085	0.005
27.18	30024	PV	0.064	0.043
27.32	8798	VV	0.092	0.013
27.49	8435	VB	0.095	0.012
28.07	3317	VV	0.083	0.005
28.22	2494	VV	0.083	0.004
28.40	1994	VV	0.083	0.003
28.94	1819	VP	0.088	0.003
29.12	1224	PB	0.068	0.002
29.39	1901	PV	0.116	0.003
29.81	5054	VP	0.226	0.007
30.41	18798	BB	0.090	0.027
30.98	2082	PP	0.120	0.003
31.32	2016	PV	0.093	0.003
32.04	5329	BV	0.149	0.008
34.71	9523	BV	0.120	0.014
40.50	6571	PV	0.139	0.009

TOTAL AREA= 7.0404E+07
MUL FACTOR= 1.0000E+00

AREA%

RT	AREA	TYPE	AR/WT	AREA%
1.74	6.8253E+07	TBPB	0.136	96.948
2.67	4052	TVP	0.054	0.006
2.78	15095	TPV	0.048	0.021
2.87	4948	TVV	0.047	0.007
2.93	3590	DTVV	0.050	0.005
3.11	7186	TVV	0.004	0.010
3.26	11850	TVV	0.075	0.017
3.32	8899	TVP	0.051	0.013
3.45	3449	TPV	0.045	0.005
3.61	50364	TVV	0.065	0.072
3.72	4736	TVV	0.055	0.007
3.90	8109	TVV	0.059	0.012
3.92	8447	TVV	0.079	0.012
4.04	11115	TVP	0.091	0.016
4.20	8982	TPV	0.063	0.013
4.30	14972	TVV	0.076	0.021
4.37	9407	TVV	0.051	0.012
4.43	12038	TVV	0.060	0.017
4.55	21407	TVV	0.070	0.030
4.68	5501	TVV	0.082	0.008
4.80	11385	TVV	0.102	0.016
4.96	5244	TVV	0.052	0.008
5.05	85751	TVV	0.066	0.122
5.22	18628	TVV	0.082	0.027
5.32	36881	TVV	0.094	0.052
5.49	4945	TVV	0.070	0.007
5.64	2901	TVV	0.070	0.004
5.80	15553	TVP	0.092	0.022
5.99	5767	TPV	0.087	0.008
6.09	14868	TVV	0.085	0.021
6.19	13450	TVV	0.115	0.019
6.37	10581	TVV	0.075	0.015
6.49	16526	TVV	0.088	0.024
6.73	28427	TVV	0.093	0.040
7.01	10404	TVB	0.083	0.015
7.24	2173	BV	0.061	0.003
7.37	7851	VV	0.101	0.011
7.57	89484	VV	0.073	0.127
7.80	5406	VV	0.065	0.008
7.96	51445	VV	0.101	0.073
8.20	16344	VV	0.138	0.023
8.57	27899	PV	0.088	0.040
8.69	16052	VV	0.114	0.023
9.01	9338	VP	0.139	0.013
9.38	22679	PV	0.175	0.032
9.62	8504	VV	0.105	0.012
9.84	13263	VP	0.119	0.019
10.08	11377	PV	0.091	0.016
10.40	15968	VV	0.141	0.023
10.68	23320	VB	0.082	0.033
10.97	4397	BV	0.145	0.006
11.23	6101	VV	0.113	0.009
11.36	3216	VV	0.083	0.005
11.72	100160	VV	0.086	0.142
11.87	22333	VV	0.090	0.032
12.03	8653	VV	0.109	0.012
12.31	45161	VV	0.126	0.064
12.66	3650	VV	0.093	0.005
12.91	46451	VV	0.089	0.066
13.05	35636	VV	0.096	0.051
13.25	8858	VV	0.128	0.013
13.41	4554	VV	0.092	0.007
13.69	22235	VV	0.183	0.032
13.81	22596	VV	0.095	0.032
14.14	12651	VV	0.095	0.018
14.29	45365	VV	0.094	0.064
14.48	7395	VV	0.091	0.011
14.61	11936	VV	0.084	0.017
14.87	8647	VV	0.114	0.012
15.00	5175	VP	0.081	0.007
15.39	9966	PV	0.084	0.014
15.52	4962	VV	0.066	0.007
15.72	91185	VB	0.064	0.130
16.07	15946	VV	0.073	0.023
16.17	3242	VV	0.060	0.005
16.27	4431	VP	0.065	0.006
16.48	5711	VP	0.077	0.008
16.69	7481	PV	0.080	0.011
16.82	16620	VV	0.074	0.024
16.98	22894	VB	0.081	0.033
17.35	7087	BV	0.093	0.010
17.42	4806	VV	0.062	0.007
17.54	23796	VV	0.068	0.034
17.62	15893	VV	0.065	0.023
17.73	5112	VV	0.062	0.007
17.82	4242	VV	0.057	0.006
17.91	7925	VV	0.080	0.011
17.99	5863	VV	0.057	0.008

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Standard Diesel Fuel #2
Run # 591

Std

052-27

2 2 0857

Standard Diesel Fuel #2

24.00	7331	TVV	0.115	0.010
24.15	6969	TVV	0.107	0.009
24.29	21523	TVV	0.093	0.029
24.59	87207	TVV	0.065	0.118
24.82	53738	TVV	0.108	0.072
25.16	11747	TVV	0.111	0.016
25.29	7809	TVV	0.082	0.011
25.49	19174	TVV	0.107	0.014
25.62	7971	TVV	0.075	0.011
25.77	5722	TVV	0.085	0.008
25.87	6683	TVV	0.082	0.009
26.02	5529	TVV	0.078	0.008
26.17	12970	TVV	0.068	0.018
26.38	3802	TVV	0.063	0.005
26.48	3453	TVP	0.073	0.005
26.62	1832	TPV	0.060	0.003
26.97	6370	BP	0.085	0.009
27.18	51944	PV	0.064	0.070
27.32	16179	VV	0.095	0.022
27.49	18338	VV	0.112	0.025
27.97	2444	VV	0.107	0.003
28.07	5863	VV	0.084	0.008
28.22	3653	VP	0.074	0.005
28.40	1955	PV	0.065	0.003
28.72	2141	PV	0.110	0.003
28.94	3017	VP	0.085	0.004
29.12	4865	PV	0.094	0.007
29.38	4663	VV	0.136	0.006
29.81	6945	VP	0.180	0.009
30.41	32280	PB	0.089	0.044
30.98	3328	PP	0.121	0.005
32	3595	PV	0.095	0.005
04	8015	PV	0.135	0.011
.30	2409	VB	0.104	0.003
32.32	2605	PV	0.142	0.004
33.53	6054	PP	0.236	0.008
34.21	17456	VV	0.126	0.024
40.50	6012	PB	0.097	0.008

TOTAL AREA= 7.4218E+07
MUL FACTOR= 1.0000E+00

12.91	83760	THH	0.091	0.113
13.05	63857	THH	0.098	0.086
13.25	18453	THH	0.138	0.025
13.41	10537	THH	0.101	0.014
13.69	42809	THH	0.109	0.058
13.81	41833	THH	0.099	0.056
13.92	12619	THH	0.083	0.017
14.14	26178	THH	0.105	0.035
14.29	82315	THH	0.096	0.111
14.48	15682	THH	0.098	0.021
14.61	25012	THH	0.094	0.034
14.87	19542	THH	0.128	0.026
15.00	13189	THH	0.097	0.018
15.18	4289	THH	0.083	0.006
15.39	28312	THH	0.108	0.038
15.52	16648	THH	0.083	0.022
15.61	7447	THH	0.060	0.010
15.72	180590	THH	0.071	0.243
15.94	12551	THH	0.088	0.017
16.07	42334	THH	0.088	0.057
16.17	11873	THH	0.073	0.016
16.26	16327	THH	0.089	0.022
16.39	5153	THH	0.066	0.007
16.48	17664	THH	0.103	0.024
16.69	18078	THH	0.092	0.024
16.92	33896	THH	0.079	0.046
16.99	46702	THH	0.088	0.063
17.35	22312	THH	0.127	0.030
17.42	12062	THH	0.067	0.016
17.54	46078	THH	0.072	0.062
17.62	31699	THH	0.068	0.043
17.73	12402	THH	0.067	0.017
17.92	10846	THH	0.072	0.015
17.91	17616	THH	0.064	0.024
17.99	15206	THH	0.068	0.021
18.09	19882	THH	0.076	0.027
18.15	32354	THH	0.085	0.044
18.52	8802	THH	0.117	0.012
18.70	18850	THH	0.121	0.025
18.86	28906	THH	0.147	0.039
19.09	168800	THH	0.073	0.227
19.28	32631	THV	0.112	0.044
19.52	16314	TVV	0.082	0.022
19.64	4373	TVV	0.061	0.006
19.74	15512	TVV	0.091	0.021
19.90	18309	TVV	0.079	0.025
20.01	10683	TVV	0.074	0.014
20.11	14777	TVV	0.091	0.020
20.25	7558	TVV	0.072	0.010
20.33	10467	TVV	0.078	0.014
20.44	16327	TVV	0.070	0.022
20.55	53617	TVV	0.097	0.072
20.78	34926	TVV	0.140	0.047
20.96	21361	TVV	0.085	0.029
21.18	18223	TVV	0.096	0.025
21.34	16037	TVV	0.094	0.022
21.49	4658	TVV	0.076	0.006
21.57	4698	TVV	0.070	0.006
21.68	5827	TVV	0.085	0.008
21.80	12763	TVV	0.085	0.017
21.91	8782	TVV	0.060	0.012
22.00	114490	TVV	0.058	0.154
22.15	69702	TVV	0.085	0.094
22.32	37917	TVV	0.103	0.051
22.49	10513	TVV	0.085	0.014
22.62	20311	TVV	0.109	0.027
22.77	9500	TVV	0.080	0.013
22.90	15135	TVV	0.112	0.020
23.08	15209	TVV	0.075	0.021
23.20	24605	TVV	0.140	0.033
23.37	16653	TVV	0.091	0.022
23.53	9138	TVV	0.069	0.012
23.60	13432	TVV	0.078	0.018
23.66	12802	TVV	0.063	0.017
23.87	15455	TVV	0.094	0.021

RUN # 591
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 19

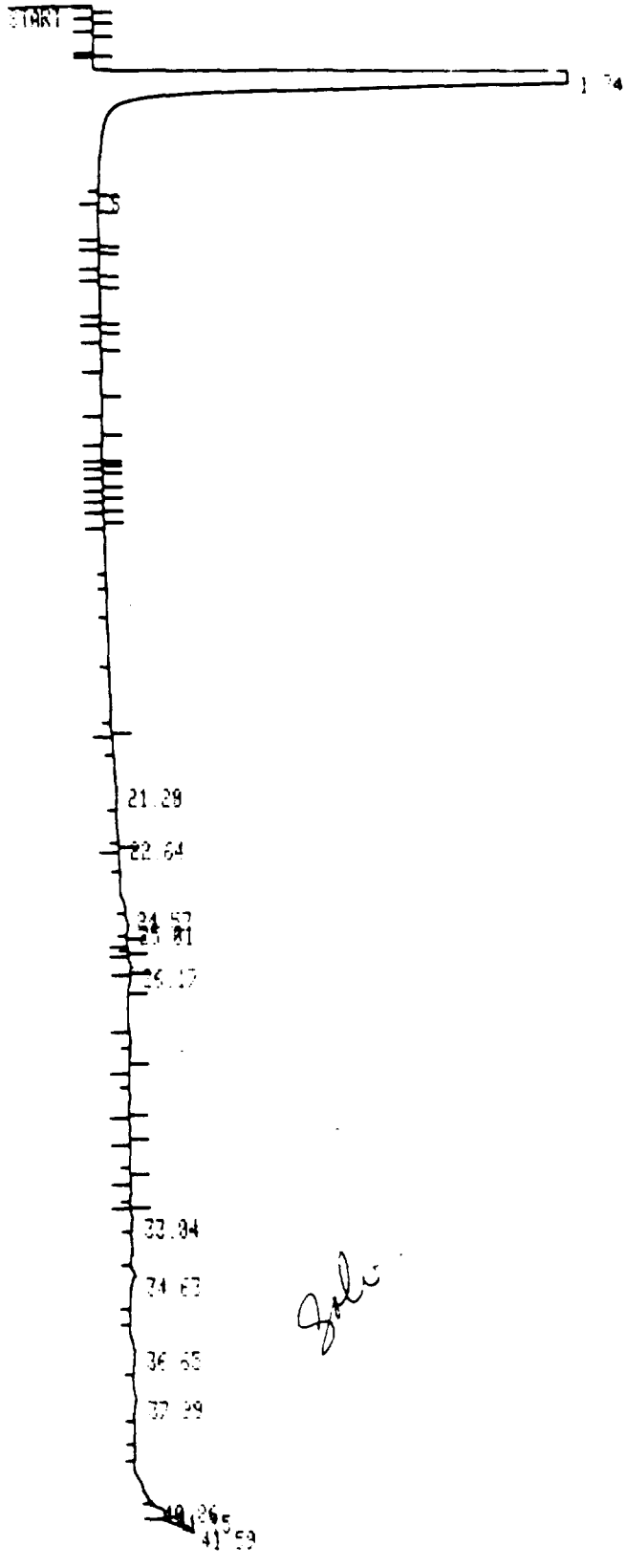
AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.74	6.9856E+07	†SBB	0.139	94.12
2.50	2486	TBP	0.037	0.00
2.58	1761	TPP	0.032	0.00
2.57	11952	TPP	0.058	0.01
2.79	32241	TPH	0.048	0.04
2.87	10664	THH	0.047	0.01
2.93	5486	DTHP	0.053	0.00
3.11	12684	TPP	0.079	0.01
3.27	20469	TPH	0.072	0.02
3.32	15434	THP	0.050	0.02
3.45	7210	TPH	0.047	0.01
3.61	93165	THH	0.065	0.12
3.73	8700	THH	0.055	0.01
3.80	14565	THH	0.059	0.02
3.92	14853	THH	0.079	0.02
4.04	20094	THP	0.091	0.02
4.20	16560	TPH	0.064	0.02
4.30	27067	THH	0.076	0.03
4.37	15494	THH	0.052	0.02
4.43	21178	THH	0.060	0.02
4.55	38908	THH	0.071	0.05
4.68	10047	THH	0.082	0.01
4.90	20814	THH	0.102	0.02
4.96	9163	THH	0.051	0.01
5.05	150450	THH	0.067	0.19
5.22	33938	THH	0.083	0.04
5.32	64524	THH	0.095	0.08
5.50	8827	THH	0.071	0.01
5.63	5248	THH	0.072	0.00
5.80	27568	THH	0.093	0.03
5.99	10593	THH	0.088	0.01
6.09	26772	THH	0.086	0.03
6.19	24941	THH	0.117	0.03
6.37	20419	THH	0.079	0.02
6.49	31987	THH	0.094	0.04
6.73	54166	THH	0.099	0.07
6.93	4451	THH	0.048	0.00
7.01	20797	THH	0.082	0.02
7.24	3991	THH	0.079	0.00
7.38	16693	THH	0.110	0.02
7.57	155800	THH	0.075	0.21
7.71	5710	THH	0.065	0.00
7.96	94325	THH	0.107	0.12
8.13	7298	THH	0.063	0.01
8.20	14473	THP	0.082	0.02
8.57	48512	TPH	0.087	0.06
8.69	27159	THH	0.113	0.03
9.01	15513	THP	0.137	0.02
9.38	38830	TPH	0.175	0.05
9.62	14520	THH	0.104	0.02
9.34	23078	THH	0.120	0.03
10.07	13921	THH	0.092	0.02
10.19	3064	THH	0.091	0.01
10.40	29291	THH	0.144	0.04
10.58	41969	THH	0.084	0.05
10.97	10915	THH	0.174	0.01
11.23	13071	THH	0.122	0.01
11.36	6555	THH	0.084	0.00
11.73	174280	THH	0.088	0.23
11.37	40502	THH	0.093	0.05
12.02	16058	THH	0.107	0.02
12.31	83171	THH	0.130	0.11
12.53	5313	THH	0.084	0.00
12.66	8558	THH	0.102	0.01

052-28

2 2 0858

Soluent: Freon 113



RUN # 595
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 23

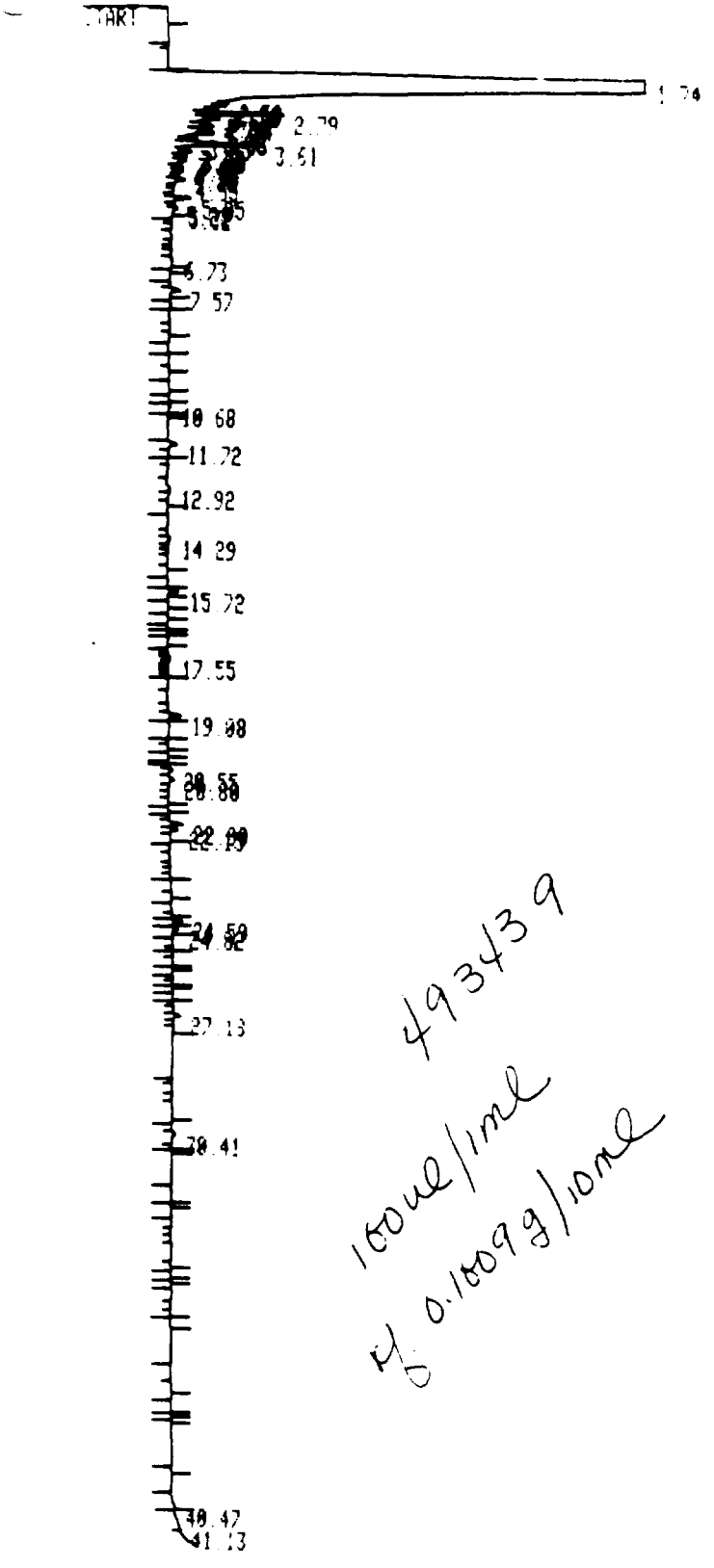
AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.74	6.7907E+07	↑SBB	0.135	99.905
21.20	12331	VP	0.922	0.018
22.64	2421	PV	0.459	0.004
24.57	2769	PV	0.182	0.004
25.01	7899	VV	0.410	0.012
26.17	2526	PB	0.170	0.004
33.04	5340	BV	0.282	0.008
34.63	14757	PP	0.381	0.022
36.65	22760	VV	0.717	0.034
37.39	22681	VV	0.713	0.033
41.15	7473	PB	0.201	0.011
41.59	32044	I BH	0.170	0.047

TOTAL AREA= 6.8040E+07
MUL FACTOR= 1.0000E+00

2 2 0800 052-29

Sample NO: 7334 (oil)
Lab NO: 493439



RUN # 530
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 21

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.74	6.7952E+07	↑SBB	0.135	99.641
2.50	1400	TBV	0.036	0.002
2.58	2887	TVV	0.041	0.004
2.68	3940	TVP	0.052	0.006
2.79	30488	TPV	0.050	0.045
2.88	6004	TVV	0.048	0.009
2.94	10168	TVV	0.065	0.015
3.12	12497	TVV	0.088	0.018
3.26	14648	TVV	0.087	0.022
3.33	9165	TVP	0.051	0.013
3.45	4012	TPP	0.046	0.006
3.61	38954	TPV	0.066	0.057
3.73	3187	TVV	0.054	0.005
3.80	4488	TVV	0.059	0.007
3.91	4197	TVV	0.078	0.006
4.02	5756	TVP	0.103	0.008
4.20	3101	TPV	0.064	0.005
4.30	4444	TVV	0.075	0.007
4.55	4727	TPV	0.064	0.007
—5.05	7878	TVV	0.064	0.012
5.22	1380	TVV	0.072	0.002
5.32	2683	TVB	0.080	0.004
6.73	1916	PB	0.100	0.003
—7.57	4863	PB	0.071	0.007
10.68	1365	BB	0.079	0.002
—11.72	5011	BV	0.083	0.007
12.92	1464	PV	0.089	0.002
14.29	2395	VV	0.089	0.004
—15.72	4925	PB	0.063	0.007
17.55	1219	VV	0.061	0.002
→19.08	5158	PB	0.060	0.008
20.55	2808	VV	0.087	0.004
20.80	3762	VV	0.092	0.006
—22.00	5262	VV	0.056	0.008
22.15	4578	VV	0.076	0.007
—24.59	3448	BB	0.051	0.005
24.82	3300	BB	0.072	0.005
—27.18	3519	PV	0.067	0.005
30.41	2425	VV	0.095	0.004
41.13	11619	BV	0.258	0.017

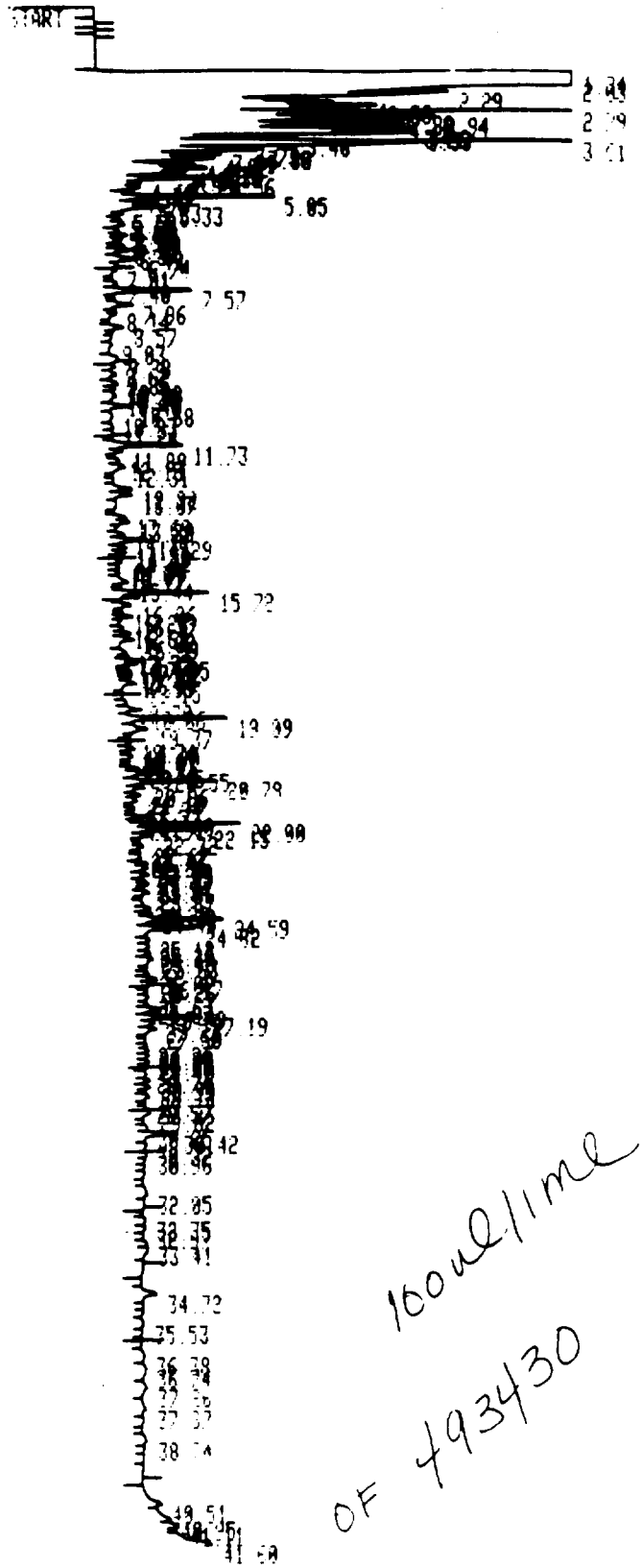
TOTAL AREA= 6.8197E+07
MUL FACTOR= 1.0000E+00

2 2 0860 052-30

Sample No: 7334 (L/W)

Lab NO: 493430

Run NO: 594



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OF 493430

052-31

2 2 0861

Sample # 7334
Lab # 493430

RUN # 594
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 22

AREA% RT	AREA	TYPE	AR/HT	AREA%
1.74	6.9262E+07	†SBB	0.138	91.705
2.03	2873200	TBB	0.050	3.804
2.29	66388	TBP	0.077	0.088
2.45	9844	TPV	0.042	0.013
2.51	32001	TVV	0.049	0.042
2.58	54090	TVV	0.054	0.072
2.68	66173	TVV	0.074	0.088
2.79	268730	TVV	0.050	0.356
2.98	64907	TVV	0.050	0.086
2.94	113340	TVV	0.071	0.150
3.12	140750	TVV	0.101	0.186
3.26	145360	TVV	0.092	0.193
3.33	87175	TVV	0.053	0.115
3.46	42325	TVV	0.051	0.056
3.61	331200	TVV	0.065	0.439
3.73	30795	TVV	0.054	0.041
3.80	42449	TVV	0.061	0.056
3.91	39300	TVV	0.081	0.052
4.02	49451	TVP	0.102	0.066
4.21	26569	TPV	0.064	0.035
4.30	38930	TVV	0.075	0.052
4.38	20266	TVV	0.053	0.027
4.44	18125	DTVV	0.052	0.024
4.56	44571	TVV	0.066	0.059
4.68	9602	TVV	0.085	0.013
4.79	13411	TVP	0.100	0.018
4.96	5966	TPV	0.053	0.008
5.05	77772	TVV	0.068	0.103
5.23	19530	TVV	0.080	0.026
5.33	36429	TVV	0.093	0.048
5.50	3816	TVP	0.068	0.005
5.66	4475	TPV	0.086	0.006
5.79	10174	TVP	0.115	0.014
5.99	4946	TPV	0.093	0.007
6.09	8669	TVV	0.080	0.012
6.19	4239	TVV	0.059	0.006
6.37	5338	TVV	0.066	0.007
6.49	8992	TVP	0.075	0.012
6.74	14416	TPV	0.087	0.019
7.01	1150	BP	0.048	0.002
7.40	4757	VV	0.097	0.006
7.57	43677	VV	0.073	0.058
7.96	17559	VV	0.103	0.023
8.14	3632	VV	0.072	0.005
8.57	9958	PV	0.092	0.013
9.03	3364	VP	0.131	0.005
9.38	2456	PB	0.072	0.003
9.62	2031	BP	0.075	0.003
9.95	4749	PP	0.090	0.006
10.08	5863	PV	0.088	0.008
10.20	4103	VV	0.095	0.005
10.40	8157	VV	0.145	0.011
10.68	11716	VV	0.080	0.016
10.93	3423	VP	0.151	0.005
11.24	1804	PV	0.095	0.002
11.73	42500	PV	0.083	0.056
11.89	6152	VV	0.085	0.008
12.13	6030	VV	0.120	0.008
12.31	12431	VV	0.136	0.017
12.92	12384	PV	0.087	0.016
13.07	13674	VV	0.099	0.018
13.69	7882	PV	0.093	0.010
13.80	10546	VV	0.096	0.014
14.14	5090	VV	0.076	0.007
14.29	20762	VV	0.090	0.028
14.50	5663	VV	0.079	0.008
14.62	4757	VV	0.070	0.006
14.86	3898	BP	0.088	0.005
15.01	1934	PP	0.073	0.003
15.17	1609	PP	0.057	0.002
15.44	8242	PV	0.100	0.011
15.72	41963	VB	0.064	0.056
16.06	7071	PV	0.084	0.009
16.26	2506	VV	0.074	0.003
16.37	6380	VV	0.063	0.009
16.69	4026	PV	0.092	0.005
16.82	7328	VV	0.076	0.010
16.99	12000	VP	0.104	0.016
17.35	5556	PV	0.096	0.007
17.43	4682	VV	0.069	0.006
17.55	13001	VV	0.070	0.017
17.62	8722	VV	0.070	0.012
17.73	3799	VV	0.062	0.005
17.83	5068	VV	0.067	0.007
17.91	4877	VV	0.058	0.007
17.99	5369	VV	0.076	0.007
18.15	11951	VV	0.112	0.016
18.70	3447	PV	0.103	0.005
18.86	11121	VV	0.086	0.015
19.09	50219	VV	0.067	0.067
19.37	23270	VV	0.144	0.031
19.74	2235	PP	0.062	0.003
19.90	4036	PV	0.064	0.005
20.01	2738	VV	0.072	0.004
20.11	3467	VV	0.070	0.005
20.45	5256	VV	0.061	0.007
20.55	23639	VV	0.000	0.031
20.78	44616	VV	0.068	0.059
20.96	9522	VV	0.086	0.013
21.19	6707	VV	0.085	0.009
21.34	5747	VV	0.111	0.008
21.57	2451	VV	0.070	0.003
21.90	9729	VV	0.068	0.012
21.91	3697	VV	0.058	0.005
22.00	45451	VV	0.057	0.060
22.15	43315	VV	0.083	0.057
22.32	14678	VV	0.100	0.019
22.52	8023	VV	0.105	0.011
22.77	3569	VV	0.074	0.005
22.91	7069	VV	0.133	0.009
23.09	6366	VV	0.069	0.008
23.19	12245	VV	0.135	0.016
23.37	9452	VV	0.099	0.013
23.54	4493	VV	0.066	0.006
23.61	5403	VV	0.064	0.007
23.97	9085	VV	0.096	0.012
24.20	6362	VV	0.142	0.008
24.30	9066	VV	0.102	0.012
24.43	6053	VV	0.065	0.008
24.59	44262	VV	0.072	0.059
24.92	40931	VV	0.101	0.054
25.12	7631	VV	0.117	0.010
25.29	9667	VV	0.142	0.012
25.48	6945	VV	0.105	0.009
25.63	12237	VV	0.156	0.016
26.02	3292	VP	0.075	0.004
26.17	5422	PV	0.064	0.007
26.26	851	VB	0.043	0.001
26.63	2517	PV	0.100	0.003
26.83	1545	VV	0.077	0.002
26.99	11073	VP	0.095	0.015
27.19	27392	PV	0.065	0.036
27.33	8056	VV	0.106	0.011
27.50	9448	VV	0.113	0.013
27.96	1584	VV	0.084	0.002
28.08	2067	VV	0.086	0.003
28.22	1626	VP	0.067	0.002
28.40	1603	PP	0.062	0.002
28.74	3740	PV	0.130	0.005
28.94	4793	VP	0.085	0.006
29.12	4257	PV	0.081	0.006
29.37	3972	VP	0.096	0.005
29.57	667	PV	0.056	8.8314E-04
29.82	4069	BP	0.123	0.005
30.25	4346	VV	0.136	0.006
30.42	21269	VV	0.099	0.028
30.72	2575	VB	0.100	0.003
30.96	2321	PV	0.110	0.003
32.05	5747	VV	0.198	0.008
32.75	3497	PV	0.137	0.005
32.97	2403	VV	0.097	0.003
33.41	3952	PV	0.115	0.005
34.72	16501	VV	0.146	0.022
35.53	3235	PV	0.154	0.004
36.38	7736	PV	0.229	0.010
36.74	13183	VV	0.348	0.019
37.26	10897	VV	0.251	0.014
37.97	8093	VV	0.228	0.011
38.74	7778	VV	0.206	0.010
40.51	28548	BV	0.210	0.038
40.95	57911	VV	0.278	0.077
41.11	38288	VV	0.144	0.051
41.60	137450	VVH	0.272	0.182

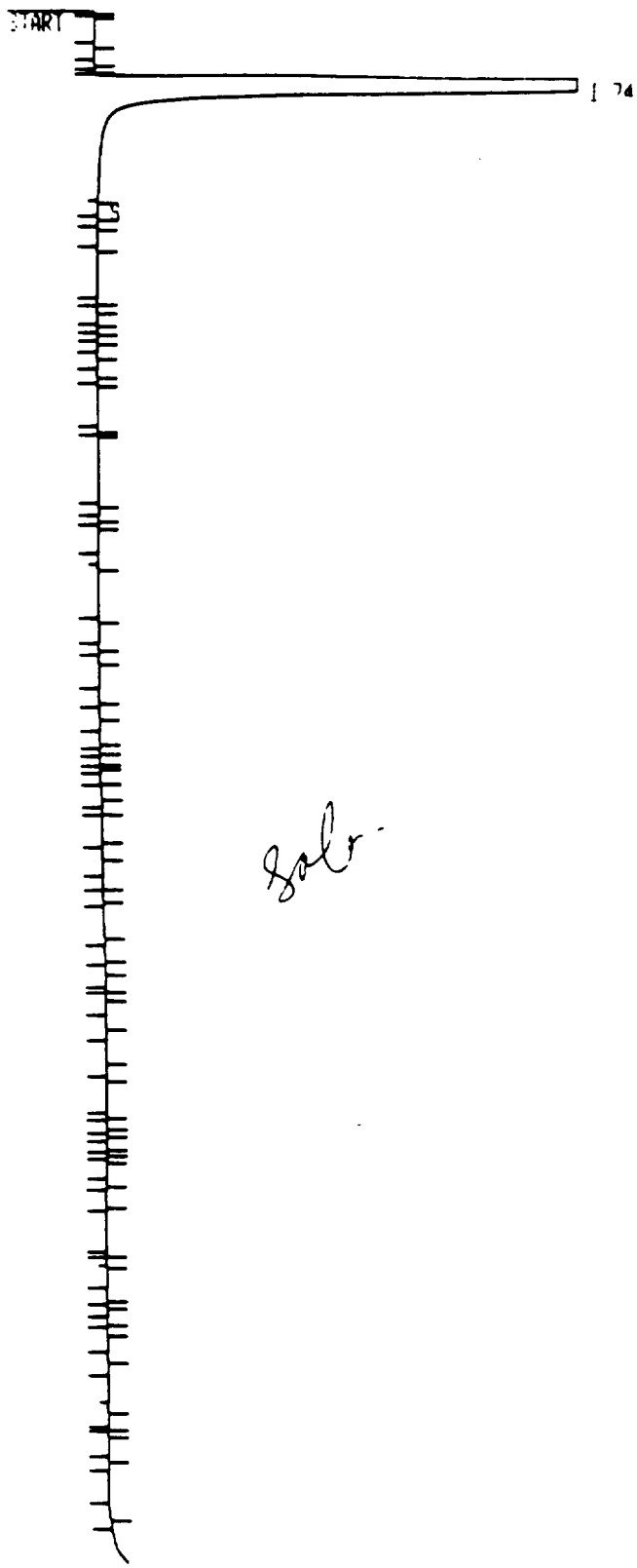
TOTAL AREA= 7.5526E+07
MUL FACTOR= 1.0000E+00

537

052-32

2 2 0862

Solvent: Freon 113



RUN # 592
WORKFILE ID: C
WORKFILE NAME
SAMPLE # 20

AREA%

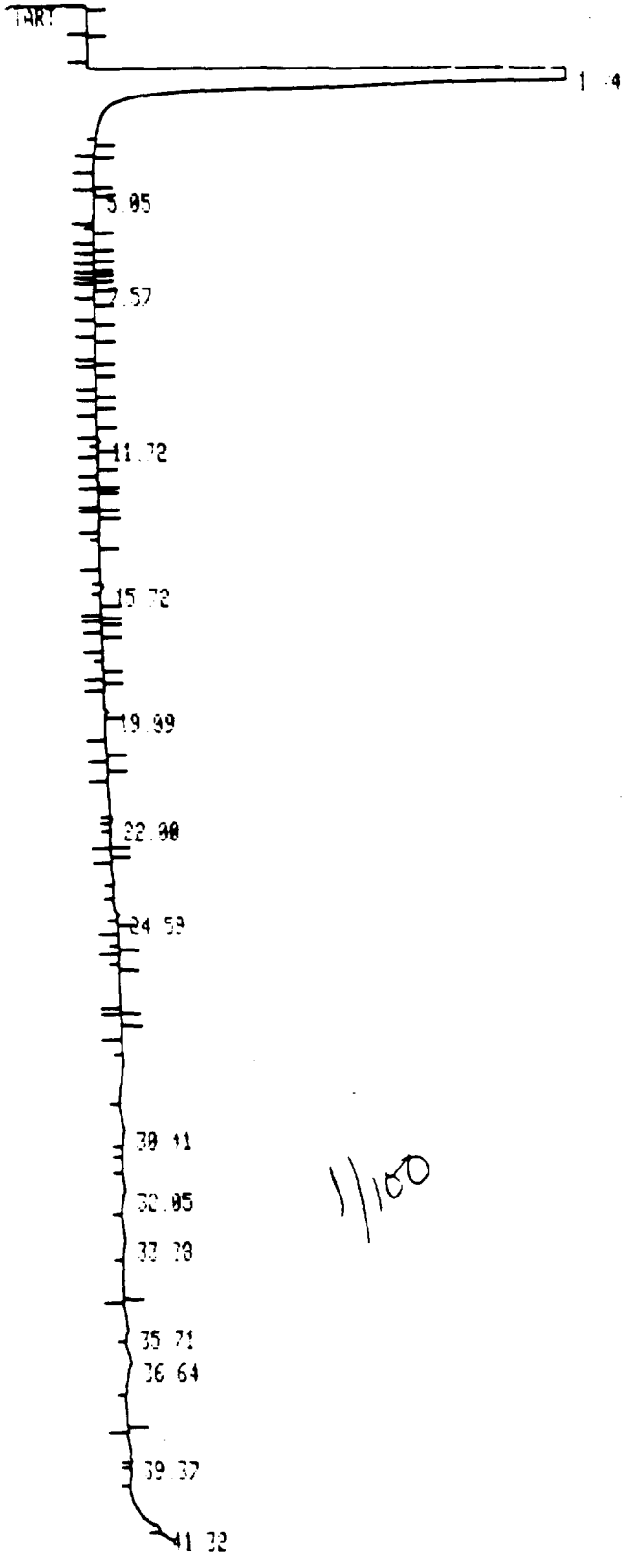
RT	AREA	TYPE	AR/HT	AREA%
1.74	6.7889E+07	†SBB	0.135	100.0000

TOTAL AREA= 6.7889E+07
MUL FACTOR= 1.0000E+00

052-33

2 2 0863

1/100 dilution of standard



1/100

RUN # 596
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 24

AREA%

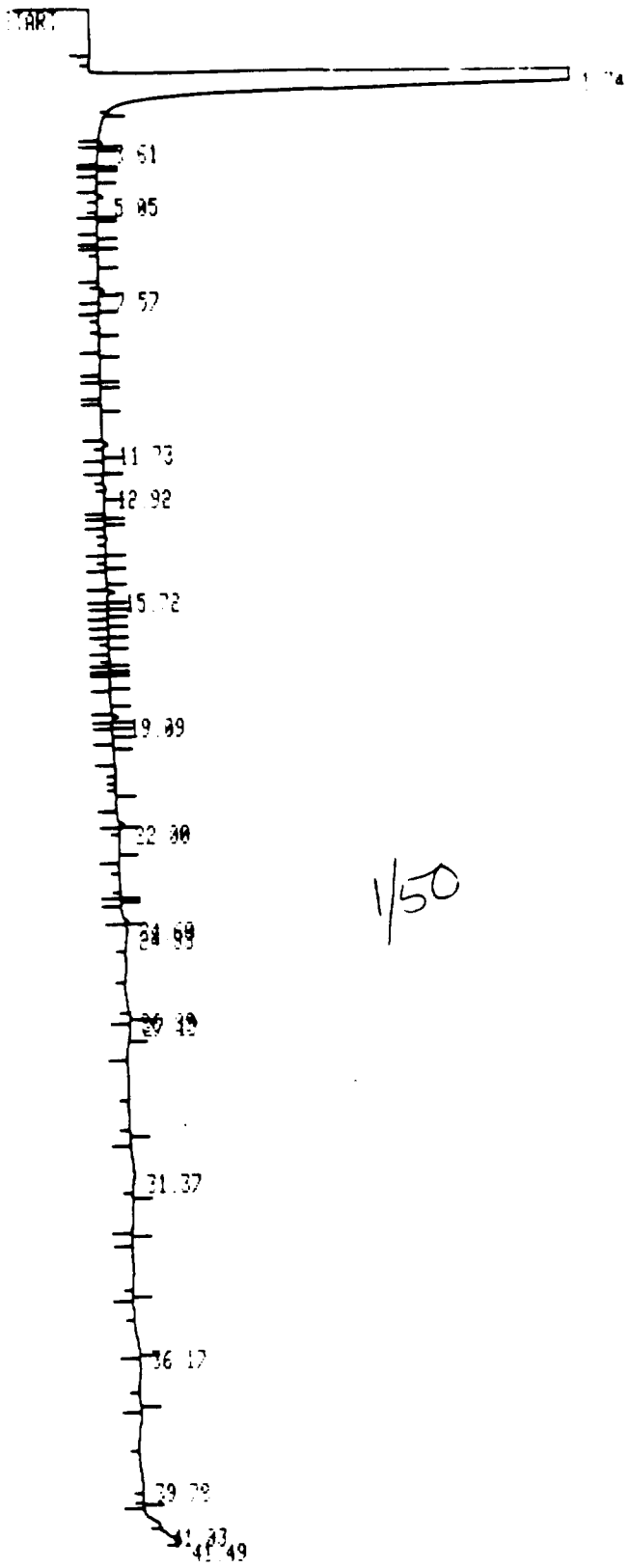
RT	AREA	TYPE	AR/HT	AREA%
1.74	6.7577E+07	↑SPB	0.134	99.703
--5.05	1160	BB	0.061	0.002
—7.57	1228	BB	0.068	0.002
--11.72	1420	PV	0.083	0.002
—15.72	1586	VP	0.068	0.002
—19.09	1143	PB	0.057	0.002
—22.00	1296	VV	0.066	0.002
—24.59	1547	PV	0.099	0.002
30.41	21115	PV	0.609	0.031
32.05	19237	VV	0.586	0.028
33.38	16238	VV	0.730	0.024
35.71	14992	PV	0.675	0.022
36.64	30079	VP	0.689	0.044
39.37	6839	PV	0.412	0.010
41.32	83639	VV	0.396	0.123

TOTAL AREA= 6.7778E+07
MUL FACTOR= 1.0000E+00

052-34

2 2 0864

1/50 dilution of standard



1/50

RUN # 532
WORKFILE ID: 0
WORKFILE NAME:
SAMPLE # 25

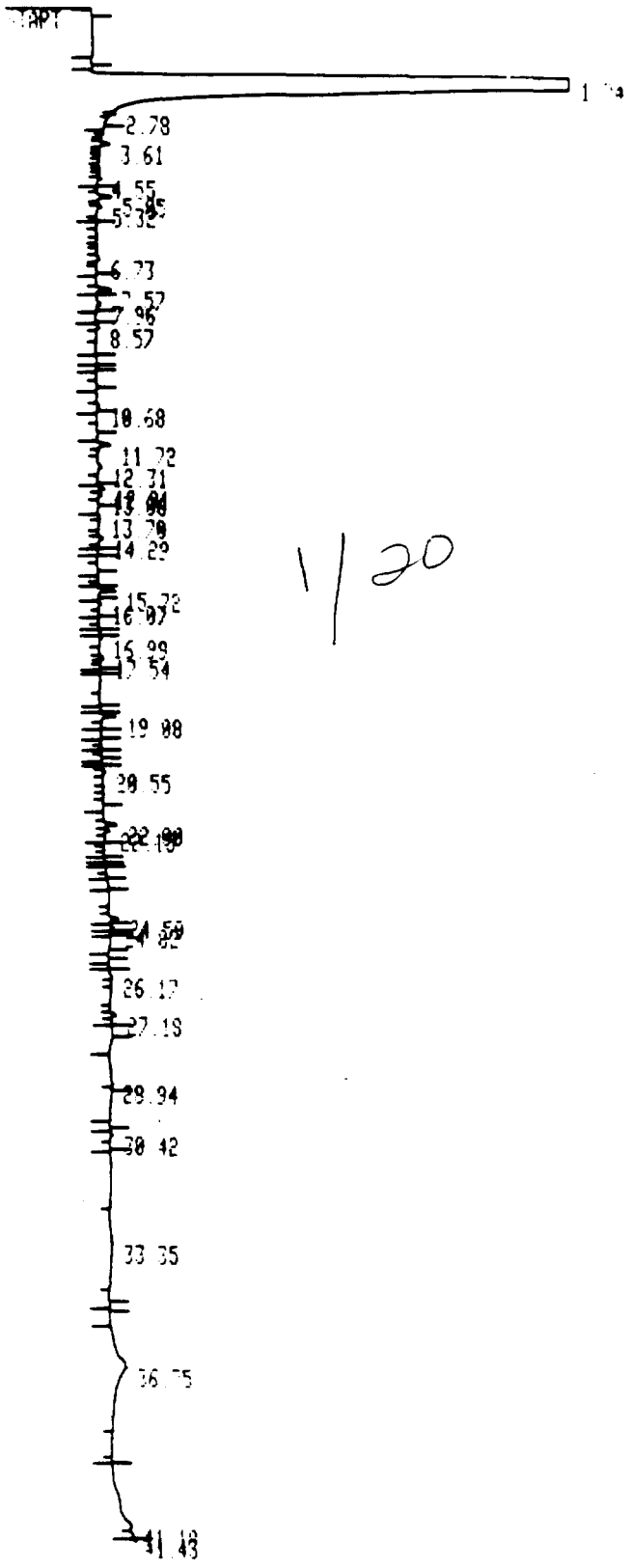
AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.74	6.7523E+07	↑SPB	0.134	99.750
3.61	1457	BB	0.054	0.002
—5.05	3092	BV	0.071	0.005
—7.57	2733	PB	0.069	0.004
—11.73	3098	PV	0.083	0.005
12.92	1501	PV	0.090	0.002
—15.72	2839	BB	0.063	0.004
—19.09	2636	PB	0.062	0.004
—22.30	1803	BB	0.053	0.003
—24.60	811	PB	0.034	0.001
24.93	5091	BV	0.304	0.009
26.99	445	PP	0.120	6.5745E-04
—27.19	848	PB	0.056	0.001
31.37	10560	BV	0.579	0.016
36.17	1792	PB	0.235	0.003
39.28	6061	PV	0.540	0.009
41.33	27454	BV	0.235	0.041
41.49	89710	VV	0.348	0.133

TOTAL AREA= 6.7686E+07
MUL FACTOR= 1.0000E+00

052-35

2 2 0865



1/20

1/20 dilution of standard

RUN # 598
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 26

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.74	6.7933E+07	↑SPB	0.135	99.676
2.78	1360	TBP	0.045	0.002
3.61	4406	PV	0.064	0.007
4.55	1625	PB	0.067	0.002
5.05	7573	PV	0.070	0.011
5.32	3360	VP	0.103	0.005
6.73	2249	VV	0.092	0.003
7.57	6960	PB	0.070	0.010
7.96	2917	BB	0.082	0.004
8.57	2352	BV	0.089	0.004
10.68	1925	PB	0.079	0.003
11.72	8043	BV	0.084	0.012
12.31	4322	VV	0.154	0.006
12.91	3294	PV	0.081	0.005
13.36	2381	VV	0.090	0.004
13.79	1491	PV	0.089	0.002
14.29	3125	VV	0.084	0.005
15.72	7500	BB	0.064	0.011
16.37	1262	BV	0.073	0.002
16.99	1365	BP	0.067	0.002
17.54	1697	VV	0.062	0.003
19.08	6909	BV	0.064	0.010
20.55	1382	VV	0.084	0.003
22.00	5716	VV	0.061	0.008
22.15	3086	VV	0.081	0.005
24.59	3464	PB	0.055	0.005
24.82	1519	PB	0.070	0.002
26.17	2389	BV	0.120	0.004
27.18	2380	PV	0.063	0.004
28.94	3425	BV	0.492	0.005
30.42	1471	PP	0.085	0.002
33.35	23653	VP	1.180	0.035
36.75	93843	BV	0.920	0.138
41.43	1832	VB	0.096	0.003

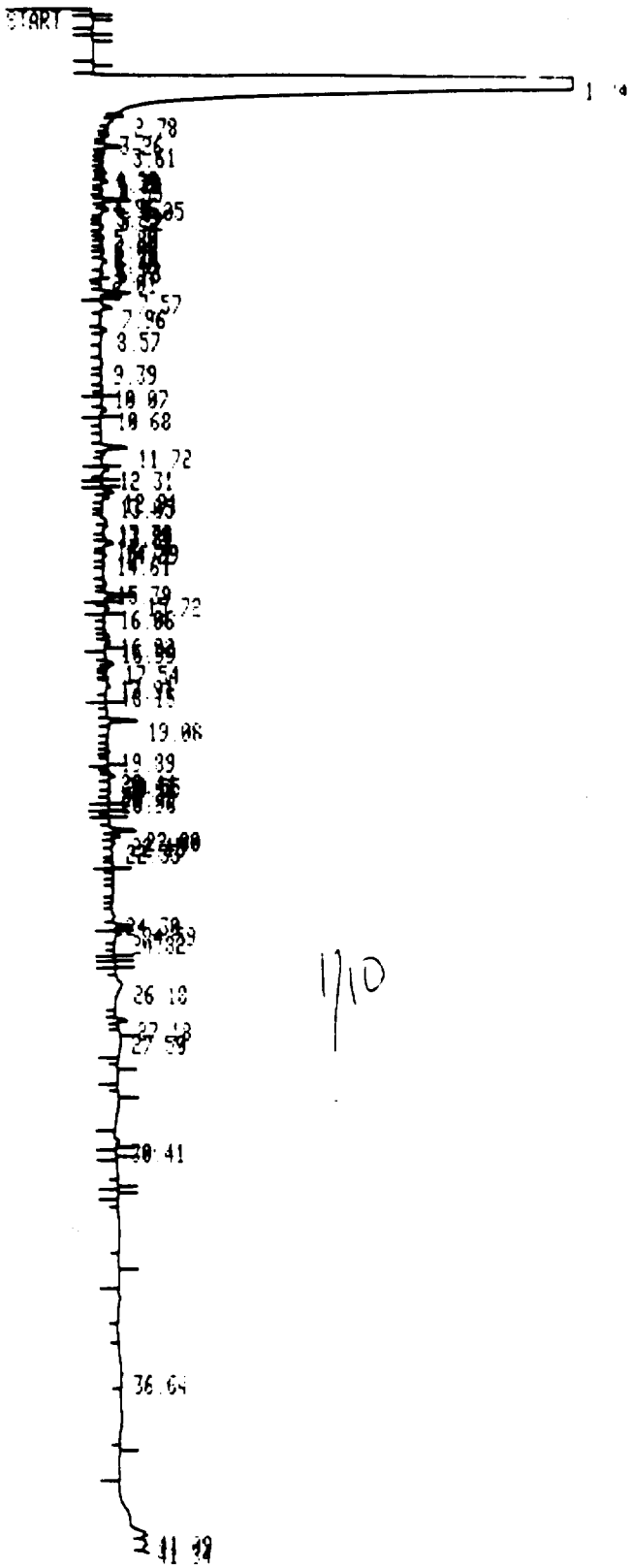
TOTAL AREA= 6.8154E+07
MUL FACTOR= 1.0000E+00

052-36

2 2 0866

Run # 599

1/10 dilution of standard



RUN # 599
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 27

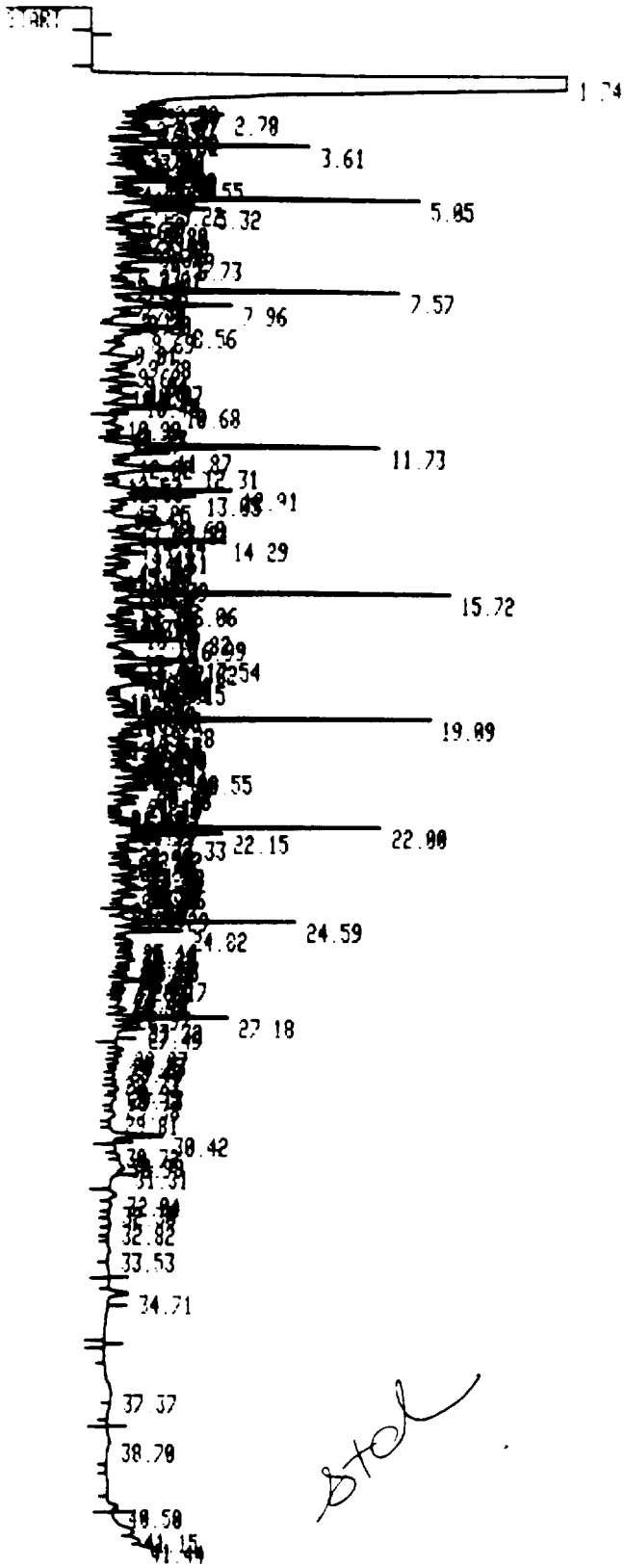
AREA2

RT	AREA	TYPE	AR/HT	AREA2
1.74	6.8238E+07	†SPB	0.136	99.790
2.78	2927	TBP	0.046	0.004
3.26	1905	TPV	0.070	0.003
3.61	8731	TPV	0.064	0.013
4.20	1554	TPV	0.064	0.002
4.38	2550	TVV	0.073	0.004
4.55	3592	TVV	0.069	0.005
4.96	869	TPV	0.051	0.001
−5.05	14225	TVV	0.066	0.021
5.23	3110	TVV	0.081	0.005
5.32	6076	TVV	0.095	0.009
5.80	2527	TPP	0.089	0.004
6.08	2483	TVV	0.089	0.004
6.37	1675	TVV	0.073	0.002
6.49	2632	TVV	0.087	0.004
6.73	5309	TVV	0.106	0.008
7.01	1734	TVB	0.085	0.003
−7.57	13775	PB	0.070	0.020
7.96	7441	BV	0.096	0.011
8.57	4810	PV	0.091	0.007
9.39	3887	PV	0.178	0.006
10.07	1662	PV	0.083	0.002
10.68	7638	PB	0.079	0.005
−11.72	15512	PV	0.083	0.023
12.31	5565	BP	0.112	0.008
12.91	6855	BV	0.084	0.010
13.05	5444	VV	0.094	0.008
13.78	3305	PV	0.096	0.005
13.81	4464	VV	0.118	0.007
14.14	1925	VV	0.089	0.003
14.29	7295	VV	0.094	0.011
14.61	1859	VV	0.082	0.003
15.39	1735	PV	0.094	0.003
−15.72	15315	VB	0.066	0.022
16.06	2588	PB	0.078	0.004
16.82	2218	VV	0.069	0.003
16.99	3254	VB	0.075	0.005
17.54	3917	VV	0.067	0.006
17.91	1783	VV	0.057	0.002
18.15	5356	VV	0.166	0.008
−19.08	15204	VV	0.070	0.022
19.89	1003	PV	0.058	0.002
20.44	987	PV	0.062	0.001
20.55	4116	VV	0.084	0.006
20.79	2588	VV	0.132	0.004
20.96	1487	VP	0.072	0.002
−22.00	10656	VV	0.059	0.016
22.15	6127	VV	0.083	0.009
22.33	2757	VV	0.090	0.004
24.30	1294	PP	0.083	0.002
−24.59	6863	PB	0.055	0.010
24.82	3783	BP	0.085	0.006
26.18	17927	VP	0.355	0.026
−27.18	4258	PP	0.057	0.006
27.50	738	VB	0.072	0.001
30.41	2443	PB	0.072	0.004
36.64	11790	PV	0.689	0.017
41.09	90920	BV	0.476	0.132
41.34	49535	VV	0.265	0.072

TOTAL AREA= 6.8649E+07
MUL FACTOR= 1.0000E+00

052-37
2 2 0867

Standard Diesel Fuel #2
Run #600



Std

052-38
2 2 0868

Standard Diesel Fuel #2

RUN # 600
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 20

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.74	6.8492E+07	TSPB	0.136	94.273
2.50	2621	TBP	0.037	0.004
2.58	1755	TPP	0.031	0.002
2.67	11908	TPP	0.058	0.017
2.78	32039	TPM	0.047	0.044
2.87	10718	THM	0.046	0.015
2.93	6146	DTHV	0.056	0.009
3.11	13948	TVV	0.082	0.019
3.26	22526	TVV	0.073	0.031
3.32	17049	TVP	0.051	0.024
3.45	7033	TPV	0.046	0.010
3.61	91249	TVV	0.065	0.126
3.72	8969	TVV	0.055	0.012
3.80	14791	TVV	0.058	0.020
3.92	15394	TVV	0.079	0.021
4.05	20331	TVP	0.091	0.028
4.20	16102	TPV	0.063	0.022
4.30	26328	TVV	0.075	0.036
4.37	15260	TVV	0.052	0.021
4.43	21241	TVV	0.060	0.029
4.55	38451	TVV	0.070	0.053
4.68	10293	TVV	0.082	0.014
4.80	21241	TVV	0.104	0.029
4.96	10011	TVV	0.054	0.014
5.05	147868	TVV	0.066	0.204
5.22	34363	TVV	0.083	0.047
5.32	64849	TVV	0.094	0.089
5.50	10073	TVV	0.074	0.014
5.63	6915	TVV	0.080	0.010
5.80	29967	TVV	0.097	0.041
5.99	12567	TVV	0.093	0.017
6.09	28402	TVV	0.088	0.039
6.19	27585	TVV	0.121	0.038
6.37	22579	TVV	0.082	0.031
6.49	34994	TVV	0.097	0.048
6.73	58075	TVV	0.103	0.080
6.93	6045	TVV	0.051	0.008
7.01	29682	TVV	0.107	0.041
7.24	10158	TVV	0.086	0.014
7.38	21782	TVV	0.120	0.030
7.57	159260	TVV	0.075	0.219
7.70	8147	TVV	0.067	0.011
7.90	11500	TVV	0.068	0.016
7.96	93100	TVV	0.103	0.128
8.14	10988	TVV	0.072	0.015
8.20	19589	TVV	0.093	0.027
8.56	47419	TPV	0.087	0.065
8.69	26356	TVV	0.111	0.036
9.01	15703	TVP	0.139	0.022
9.38	38244	TPV	0.175	0.053
9.62	14240	TVV	0.103	0.020
9.84	22530	TVP	0.118	0.031
10.07	19207	TPV	0.090	0.026
10.19	7489	TVV	0.088	0.010
10.40	27167	TVV	0.142	0.037
10.68	39204	TVB	0.081	0.054
10.99	7525	BP	0.144	0.010
11.23	6987	PV	0.096	0.010
11.37	1539	VV	0.061	0.002
11.73	161000	PH	0.083	0.222
11.87	33470	HH	0.087	0.046
12.02	10365	HH	0.098	0.014
12.31	68403	HP	0.116	0.094
12.53	1649	PP	0.057	0.002
12.66	4765	PH	0.085	0.007
12.91	76122	HH	0.086	0.105
13.05	58217	HH	0.094	0.080
13.25	13503	HH	0.125	0.019
13.41	6925	HH	0.008	0.010
13.69	35763	HH	0.099	0.049
13.81	37354	HH	0.096	0.051
13.92	9976	HH	0.081	0.014
14.14	20486	HH	0.092	0.028
14.29	75962	HH	0.094	0.105
14.49	11804	HH	0.008	0.016
14.61	19709	HH	0.083	0.027
14.87	14210	HH	0.113	0.020
15.00	8768	HH	0.081	0.012
15.18	1639	HH	0.066	0.002
15.39	22487	HH	0.096	0.031
15.52	13486	HH	0.077	0.019
15.61	6009	HH	0.059	0.008
15.72	170270	HH	0.069	0.234
15.94	11466	HH	0.099	0.016
16.06	37910	HH	0.085	0.052
16.17	9904	HH	0.073	0.014
16.26	13076	HH	0.082	0.018
16.39	3606	HH	0.067	0.005
16.40	13571	HH	0.090	0.019
16.69	14873	HH	0.086	0.021
16.82	30411	HH	0.076	0.042
16.99	42316	HH	0.084	0.058
17.35	17393	HH	0.112	0.024
17.42	10772	HH	0.067	0.015
17.54	43190	HV	0.070	0.060
17.62	29224	VV	0.066	0.040
17.73	10845	VV	0.065	0.015
17.82	9072	VV	0.070	0.013
17.91	15768	VV	0.062	0.022
17.99	11783	VV	0.059	0.016
18.09	19499	VV	0.083	0.027
18.15	28682	VV	0.081	0.040
18.38	2576	VV	0.062	0.004
18.52	5570	VV	0.106	0.008
18.70	14627	VV	0.110	0.020
18.86	23560	VV	0.140	0.032
18.99	3196	VV	0.040	0.004
19.09	156560	VV	0.068	0.216
19.28	28737	VV	0.109	0.040
19.53	13055	VV	0.077	0.018
19.64	2574	VV	0.056	0.004
19.74	11556	VV	0.079	0.016
19.90	14786	VV	0.071	0.020
20.01	8358	VV	0.071	0.012
20.11	11365	VV	0.084	0.016
20.25	5065	VV	0.070	0.008
20.33	8387	VV	0.073	0.012
20.44	14372	VV	0.068	0.020
20.55	49845	VV	0.093	0.069
20.79	34574	VV	0.149	0.048
20.96	18032	VV	0.077	0.025
21.19	14590	VV	0.088	0.020
21.34	11723	VV	0.080	0.016
21.49	2001	VV	0.058	0.003
21.57	2151	VV	0.057	0.003
21.68	2711	VV	0.070	0.004
21.80	8580	VV	0.073	0.012
21.91	6143	VV	0.054	0.009
22.00	107810	VV	0.056	0.148
22.15	63434	VV	0.081	0.087
22.33	30693	VV	0.094	0.042
22.49	7626	VV	0.087	0.011
22.62	13953	VV	0.091	0.019
22.77	5518	VV	0.066	0.008
22.90	8928	VP	0.092	0.012
23.08	10705	PV	0.065	0.015
23.20	17781	VV	0.132	0.025
23.37	11516	VV	0.079	0.016
23.53	5393	VV	0.057	0.007
23.59	10049	VV	0.075	0.014
23.66	10062	VV	0.060	0.014
23.87	9054	VV	0.072	0.013
24.00	1589	VP	0.065	0.002
24.15	553	PB	0.036	7.6115E-04
24.29	12100	PP	0.067	0.017
24.59	77063	PV	0.059	0.106
24.92	41422	VV	0.087	0.057
25.16	11680	VV	0.107	0.016
25.29	9284	VV	0.086	0.013
25.49	13308	VV	0.117	0.018
25.63	15790	VV	0.121	0.022
25.77	7581	VV	0.086	0.010
25.87	7678	VV	0.084	0.011
26.02	5823	VV	0.090	0.008
26.17	13094	VV	0.068	0.018
26.39	4204	VV	0.065	0.006
26.48	4138	VV	0.079	0.006
26.62	2977	VV	0.071	0.004
26.97	7421	VP	0.094	0.010
27.18	52134	PV	0.063	0.072
27.32	15068	VV	0.092	0.021
27.49	14868	VB	0.094	0.021
28.07	5721	VV	0.083	0.008
28.23	4451	VV	0.079	0.006
28.40	3695	VV	0.087	0.005
28.73	2048	PV	0.105	0.003
28.94	3113	VV	0.085	0.004
29.13	5540	VV	0.095	0.008
29.38	6411	VV	0.157	0.009
29.81	6434	VP	0.174	0.009
30.42	32396	PB	0.085	0.045
30.72	1420	BV	0.091	0.002
30.99	4396	VV	0.115	0.006
31.31	13077	VB	0.213	0.018
32.04	7996	BV	0.137	0.011
32.30	3340	VV	0.133	0.005
32.82	3036	PV	0.143	0.004
33.53	4594	PP	0.221	0.006
34.71	16341	PB	0.113	0.023
37.37	22396	VV	0.502	0.031
38.70	8933	BP	0.481	0.012
40.50	4127	PB	0.074	0.006
41.15	48594	BV	0.253	0.066
41.44	43294	VV	0.208	0.060

TOTAL AREA= 7.2653E+07
MUL FACTOR= 1.0000E+00

ENVIRESPONSE, INC.

ENVIRONMENTAL EMERGENCY RESPONSE UNIT

GSA RARITAN DEPOT, WOODBRIDGE AVENUE, BUILDING 209, BAY F, EDISON, N.J. 08837
(201) 548-9660

September 12, 1986

Clayton Environmental Consultants
Raritan Center
160 Fieldcrest Avenue
Edison, NJ 08837

Dear Odette,

As per our telephone conversation of September 15, 1986, 11 water samples and one oil sample have been shipped to your laboratory for priority pollutant volatile organics, PCBs/Pesticides, and base neutral/acid extractables analyses plus chlorides and bromides and the following metals:

Arsenic	Lead
Barium	Selenium
Boron	Vanadium
Cadmium	Zinc
Chromium	Aluminum
Copper	Manganese
Nickel	Iron

The priority pollutant organics are to be analyzed according to Contract Laboratory Program (CLP) protocol. One matrix spike and also one unspiked duplicate analysis for the water is requested for each priority pollutant fraction. Please base your selection of the samples used for matrix spikes and duplicates on the presence of at least one test parameter, if possible. The final report should be prepared according to CLP protocols and should include:

1. Spectra of p-bromofluorobenzene for every twelve hours of analysis.

2. Spectra and tabulation of ions for DFTPP for every twelve hours of analysis.

3. Total ion chromatograms for every blank, standard, and sample.

4. Spectra for standards for any compounds with sample hits.

5. Spectra for hits in samples.

6. Response tabulation for each point in the most recently analyzed calibration range.

7. Response factors for each daily check standard.

8. All surrogate and internal standards must be clearly labeled on the total ion chromatograms.

9. Each data sheet and chromatogram of spectrum must be clearly labeled with the sample identity and date and time of analysis plus dilution and/or concentration factors.

10. All sample analysis results must be presented in tabulated form - data sheets alone are not acceptable.

11. All surrogate standard recoveries must be presented in tabulated form.

12. Sample matrix spikes must be presented in tabulated form.

13. Instrument and method detection limits for each parameter.

Drinking water quality detection limits are required for the metals analysis. One duplicate and one matrix spike analysis should be performed for QA/QC purposes. The final report should include tabulated results and method detection limits.

The chloride and bromide analyses by ion chromatography should also include one duplicate and matrix spike for each parameter. The final report should include a tabulation of sample results and QA/QC results, calibration range chromatograms, sample chromatograms and a list of method detection limits.

The final report is due on October 6, 1986. The chain of custody enclosed with the samples should be signed and returned to me at:

GSA Raritan Depot
Bldg. 209 Bay F
Edison, NJ 08837

The following page lists each sample number and the analyses requested.

Sincerely,

Janet J. Cullinane

Janet J. Cullinane

rd/6575D:0113D

2 2 0871

ENVIRESPONSE, INC.

ENVIRONMENTAL EMERGENCY RESPONSE UNIT
GSA RARITAN DEPOT, WOODBRIDGE AVENUE, BUILDING 209, BAY F, EDISON, N.J. 08837
(201) 548-9660

September 17, 1986

Clayton Environmental Consultants
160 Fieldcrest Avenue
Edison, NJ 08837

Dear Odette:

As per our conversation, the list of samples and the analyses associated with them has been amended to reflect the following changes:

1. The metals to be analyzed are arsenic, barium, beryllium, boron, cadmium, chromium, copper, nickel, lead, selenium, vanadium, zinc, aluminum, manganese and iron. The original letter of confirmation mistakenly omitted beryllium.

2. The oil sample analyses, #7334, will not include bromides and chlorides analyses.

3. If the background levels necessitate a high dilution factor for the analysis of #7334 (oil) for PCBs by GC/MS, analysis by ECD-gas chromatography is requested.

4. Sample #7353 has been added to the list for priority pollutant BNAs, PCB/pesticides, chlorides and bromides.

Attached is the amended list. The due date for the final report has been moved back to October 8, 1986 to reflect these changes.

Sincerely,

Janet Cullinane

Janet Cullinane

pt/6575D:0113D

Sample No.	Quantity shipped	Analyses Requested
7331	4 X 40 ml	PP Volatiles
7332	4 X 40 ml	PP Volatiles
7332	4 X 1 liter	PP BNAs,PCB/Pesticides, chlorides, bromides, oil fingerprint
7332	1 liter	15 metals
7332	250 ml	Al, Fe, Mn
7333	4 X 40 ml	PP Volatiles
7333	3 X 1 liter	PP BNAs,PCB/Pesticides, chlorides, bromides, oil fingerprint
7333	1 liter	15 metals
7333	250 ml	Al, Fe, Mn
7334	4 X 40 ml	PP Volatiles
7334	4 X 1 liter	PP BNAs,PCB/Pesticides, chlorides, bromides, oil fingerprint
7334	1 liter	15 metals
7334(oil)	3 X 5 oz.	PP Volatiles, PP BNAs, PCB/Pesticides, PCBs by ECD-GC oil fingerprint, 15 metals
7335	4 X 40 ml	PP Volatiles
7335	3 X 1 liter	PP BNAs,PCB/Pesticides, chlorides, bromides, oil fingerprint
7335	1 liter	15 metals
7335	250 ml	Al, Fe, Mn
7341	4 X 40 ml	PP Volatiles
7341	3 X 1 liter	PP BNAs,PCB/Pesticides, chlorides, bromides, oil fingerprint
7341	1 liter	15 metals
7341	250 ml	Al, Fe, Mn
7342	4 X 40 ml	PP Volatiles
7342	3 X 1 liter	PP BNAs,PCB/Pesticides, chlorides, bromides, oil fingerprint
7342	1 liter	15 metals
7342	250 ml	Al, Fe, Mn
7344	4 X 40 ml	PP Volatiles
7344	3 X 1 liter	PP BNAs,PCB/Pesticides, chlorides, bromides, oil fingerprint
7344	1 liter	15 metals
7344	250 ml	Al, Fe, Mn

Sample No.	Quantity shipped	Analyses Requested
7345	4 X 40 ml	PP Volatiles
7345	3 X 1 liter	PP BNAs,PCB/Pesticides, chlorides, bromides, oil fingerprint
7345	1 liter	15 metals
7345	250 ml	Al, Fe, Mn
7346	4 X 40 ml	PP Volatiles
7346	4 X 1 liter	PP BNAs,PCB/Pesticides, chlorides, bromides, oil fingerprint
7346	1 liter	15 metals
7346	250 ml	Al, Fe, Mn
7353	4 X 40 ml	PP Volatiles
7353	4 X 1 liter	PP BNAs, PCB/Pesticides, chlorides, bromides, oil fingerprint
7353	1 liter	15 metals
7353	250 ml	Al, Fe, Mn

Clayton Environmental Consultants, Inc.

Raritan Center, 160 Fieldcrest Ave., Edison, New Jersey 08837, Telephone (201) 225-6040

October 14, 1986

Ms. Janet Cullinane
ENVIRESPONSE, INC.
GSA Raritan Depot
Building 209, Bay F
Edison, New Jersey 08837

Clayton Project No. 12512-47
P.O. No. VN1-370-69190499

Dear Ms. Cullinane:

The samples which you submitted to us on September 15, 1986, have been analyzed as requested. The data and associated documents are attached. The details are as follows:

- Eleven water samples and one oil are analyzed for priority pollutant volatiles using gas chromatography/mass spectrometry and are reported in the attached tables.
- Ten water samples are analyzed for priority pollutant BNAs, pesticides and polychlorinated biphenyls using gas chromatography/mass spectrometry and are reported in the attached tables.
- Ten water samples and one oil are analyzed for oil finger print using gas chromatography/flame ionization detector and are reported in the attached tables.
- Ten water samples are analyzed for chlorides and bromides by ion chromatography and are reported in the attached tables.

Ms. Janet Cullinane
Envirosponse, Inc.

October 14, 1986
Page 2

- Ten water samples and one oil are analyzed for fifteen metals by acid digestion/atomic absorption spectroscopy and for which the results will follow shortly.

- Nine water samples are analyzed for aluminum, iron and manganese by acid digestion/atomic absorption spectroscopy and for which the results will follow shortly.

It is a pleasure to be of assistance to you. Please contact us if you have questions concerning any aspects of this report.

Sincerely,

Kirit H. Vora
Assistant Vice President
Manager
New Jersey Office and Laboratory

KHV:mo

Clayton Environmental Consultants, Inc.
25711 Southfield Road, Southfield, Michigan 48075, Telephone (313) 424-8860

NARRATIVE

Client: ENVIRESPONSE, INC.

Clayton Project No.: 12512-47
ID: 7331-7335, 7341-42, 7344-46, 7353

Summary

Twelve samples, 11 water and 1 oil, were received on September 18, 1986 for priority pollutant volatile organics, pesticide/PCB, and BNA extractable analyses following CLP protocol, and chloride, bromide, and oil fingerprint analyses.

As requested by Enviresponse, Inc., the values of the tentatively identified VOA and BNA compounds (TIC) are not reported.

All samples and sample fractions were analyzed as low-level except the VOA fraction of oil sample 7334, which was analyzed as medium-level.

Gel permeation chromatography cleanup (GPC) was performed on the pesticide fraction of oil sample 7334. This procedure resulted in a dilution factor of two, since only one-half of the extract was prepared.

The volatiles initial calibration curve is a combination of the HSL volatile calibration curve from September 3, 1986 and the most recent priority pollutants curve from June 11, 1986.

The surrogate recoveries of the BNA compounds in water sample 7334 were diluted below the contract-required detection limit. The quantitation of these values were uncertain; therefore they were reported as diluted out.

The surrogate recoveries of DBC in samples 7332, 7332 duplicate and 7334 could not be calculated due to coelution with an interference peak.

The pesticide matrix spike recoveries in low-level oil sample 7334 were diluted out because a dilution of 1:100 was used to reduce offscale peaks.

Aroclors 1242 and 1260 were detected in low-level water sample 7334, and low-level oil samples 7334 and 7334 duplicate in the packed column and were confirmed by GC/ECD in the capillary column. Sample 7334 low-level oil was extracted for the matrix spike and analyzed on the primary column only. Confirmation was not necessary as the pesticides found in the sample were confirmed in the unspiked results. These compounds, reported on Form X, were below the instrument detection limit and, therefore, were not confirmed by GC/MS.

Branch Offices: Atlanta, Ga., Edison, N.J.; Los Angeles, Ca.; Windsor, Ontario; Toronto, Ontario; London

The number labeled "dilution factor" on the quantitation reports for the VOA and BNA analyses is a calculation factor which takes into account, based on the sample matrix: percent moisture, sample size, unit conversions, and dilutions, to derive the final concentration.

Standards

The instrument was tuned to meet the abundance criteria for BFB and DFTPP before any standards, blanks, or samples were analyzed. Initial and continuing calibration data for VOA's and BNA's are within the contract-required QC limits.

Percent-difference and retention time shifts for all pesticide compounds were within contract-required criteria for the primary runs which were used for quantitation.

Pesticide Linearity and Degradation

Linearity and degradation criteria are within the contract-required QC limits for the packed column runs which were used for quantitation.

Surrogate Recoveries

Surrogate recoveries are within QC limits for the blanks and samples except data for:

	Compound	% Rec	QC Range
M-BLK I(oil)	dibutyl chlorendate	1.2	20-150

Matrix Spike/Matrix Spike Duplicate

Matrix spike and matrix spike duplicate recovery data are within QC requirements for all compounds except data for:

	Compounds	% Rec	QC Range
7346(L/W)	4,4'-DDT	132	38-127

Blanks

Blank results for all HSL compounds are below the contract required limit of detection and are recorded on the Method Blank Summary form.

Additional Flags

The following are laboratory flags which are used in addition to those identified by the EPA:

N= Instrument detection limit exceeded the CRDL, therefore instrument detection limit was used
M= Matrix spike compound.
A= Indicates a pesticide value less than the dilution-corrected limit of detection but greater than the CRDL.

Daryl Strandbergh
Project Manager, CLP

Date: 10/8/86

Clayton Environmental Consultants, Inc.

Raritan Center, 160 Fieldcrest Ave., Edison, New Jersey 08837, Telephone (201) 225-6040

October 15, 1986

Ms. Janet Cullinane
ENVIRESPONSE, INC.
GSA Raritan Depot
Building 209, Bay F
Edison, New Jersey 08837

Clayton Project No. 12512-47
P.O. No. VN1-370-69190499

Dear Ms. Cullinane:

The samples which you submitted to us on September 15, 1986, have been analyzed as requested. The details are as follows:

- Ten water samples are analyzed for fifteen metals using EPA/600-4-020 and are reported in the attached tables.
- Nine water samples are anaylzed for aluminum, iron and manganese using EPA/600-4-79-020 and are reported in the attached tables.
- One oil sample is analyzed for fifteen metals using EPA SW846/Method 3050 and is reported in the attached tables.

It is a pleasure to be of assistance to you. Please contact us if you have questions concerning any aspects of this report.

Sincerely,

Kirit H. Vora
Assistant Vice President
Manager
New Jersey Office and Laboratory

KHV:mo

Clayton Environmental Consultants, Inc.

Analytical Data

for

Enviresponse, Inc.

Clayton Project No. 12512-47

Water (1 liter Containers)

Lab Number	Sample Description	Arsenic (mg/l)	Barium (mg/l)	Boron (mg/l)	Cadmium (mg/l)
55602	7332	0.003	0.11	<2	0.009
55603	7333	<0.001	<0.03	<2	0.007
55604	7334	0.14	0.44	<2	0.026
55605	7346 Blank	<0.002	<0.06	<3	0.009
55606	7335	<0.001	<0.03	<2	0.006
55607	7353	0.012	0.10	<2	0.008
55608	7341	0.008	0.089	<2	0.005
55609	7342	0.001	<0.03	<2	0.005
55610	7344	<0.001	<0.03	<2	0.006
55611	7345	<0.001	<0.03	<2	0.006
55606	7335 Duplicate	<0.001	<0.03	<2	0.006
% Recovery =		95	126	93	95
Limit of Detection:		0.001 mg/l	0.03 mg/l	2 mg/l	0.003 mg/l

Analytical Method: EPA/600-4-79-020, EPA chemical analysis for water & waste water

Samples were not corrected for the submitted blank or for percent recoveries.

Clayton Environmental Consultants, Inc.

Analytical Data

for

Enviresponse, Inc.

Clayton Project No. 12512-47

Water (1 liter Containers)

Lab Number	Sample Description	Copper (mg/l)	Nickel (mg/l)	Beryllium (mg/l)	Lead (mg/l)
55602	7332	0.032	0.08	<0.003	0.10
55603	7333	0.011	0.05	<0.003	0.08
55604	7334	0.016	0.11	<0.003	0.08
55605	7346 Blank	0.010	0.02	<0.003	0.12
55606	7335	0.010	0.03	<0.003	0.06
55607	7353	0.033	0.05	<0.003	0.09
55608	7341	0.021	0.08	<0.003	0.08
55609	7342	0.011	0.02	<0.003	0.06
55610	7344	0.010	0.03	<0.003	0.08
55611	7345	0.007	0.03	<0.003	0.06
55606	7335 Duplicate	0.008	0.03	<0.003	0.06
% Recovery =		93	113	101	95
Limit of Detection:		0.005 mg/l	0.01 mg/l	0.003 mg/l	0.02mg/l

Analytical Method: EPA/600-4-79-020, EPA chemical analysis for water & waste water

Samples were not corrected for the submitted blank or for percent recoveries.

Clayton Environmental Consultants, Inc.

Analytical Data

for

Enviresponse, Inc.

Clayton Project No. 12512-47

Water (1 liter Containers)

Lab Number	Sample Description	Selenium (mg/l)	Vanadium (mg/l)	Zinc (mg/l)	Aluminum (mg/l)
55602	7332	<0.002	<0.1	0.091	7.8
55603	7333	<0.002	<0.1	0.025	0.1
55604	7334	<0.002	<0.1	0.043	0.2
55605	7346 Blank	<0.002	<0.2	0.018	<0.1
55606	7335	<0.002	<0.1	0.017	0.1
55607	7353	<0.002	<0.1	0.062	6.5
55608	7341	<0.002	<0.1	0.058	4.1
55609	7342	<0.002	<0.1	0.023	0.4
55610	7344	<0.002	<0.1	0.027	0.2
55611	7345	<0.002	<0.1	0.026	0.2
55606	7335 Duplicate	<0.002	<0.1	0.018	0.1
% Recovery =		95	126	123	106

Analytical Method: EPA/600-4-79-020, EPA chemical analysis for water & waste water

Limit of Detection: 0.002 mg/l 0.1 mg/l 0.005 mg/l 0.1 mg/l

Samples were not corrected for the submitted blank or for percent recoveries.

Clayton Environmental Consultants, Inc.

Analytical Data

for

Enviresponse, Inc.

Clayton Project No. 12512-47

Water (1 liter Containers)

Lab Number	Sample Description	Manganese (mg/l)	Iron (mg/l)	Chromium (mg/l)
55602	7332	1.8	7.4	0.019
55603	7333	1.7	0.84	<0.005
55604	7334	31	38	0.005
55605	7346 Blank	0.017	0.30	<0.005
55606	7335	0.019	0.30	<0.005
55607	7353	1.4	9.3	0.016
55608	7341	1.9	20	0.030
55609	7342	0.74	1.2	<0.005
55610	7344	0.066	0.18	<0.005
55611	7345	0.065	0.35	<0.005
55606	7335 Duplicate	0.017	0.39	<0.005
% Recovery =		134	93	94
Limit of Detection:		0.005 mg/l	0.005 mg/l	0.005 mg/l

Analytical Method: EPA/600-4-79-020, EPA chemical analysis for water & waste water

Samples were not corrected for the submitted blank or for percent recoveries.

Clayton Environmental Consultants, Inc.

Analytical Data

for

Enviresponse, Inc.

Clayton Project No. 12512-47

Water (250 ml Containers)

Lab Number	Sample Description	Aluminum (mg/l)	Iron (mg/l)	Manganese (mg/l)
55602	7332	0.3	0.34	0.05
55603	7333	<0.2	0.58	1.8
55604	7334	*	*	*
55605	7346 Blank	<0.2	0.20	0.02
55606	7335	<0.2	0.17	0.03
55607	7353	<0.2	1.0	1.3
55608	7341	<0.2	1.7	1.8
55609	7342	<0.2	0.27	0.12
55610	7344	0.3	0.38	0.08
55611	7345	<0.2	0.22	0.07
55608	7341 Duplicate	<0.2	1.7	1.8
% Recovery =		133	89	87
Limit of Detection:		0.2 mg/l	0.01 mg/l	0.01 mg/l

Analytical Method: EPA/600-4-79-020, EPA chemical analysis for water & waste water

Samples were not corrected for the submitted blank or for percent recoveries.

*No sample submitted

Clayton Environmental Consultants, Inc.

Analytical Data

for

Enviresponse, Inc.

Clayton Project No. 12512-47

Oil Sample

Lab Number	Sample Description	Arsenic (ug/g)	Barium (ug/g)	Boron (ug/g)	Cadmium (ug/g)
55604	7334	8.4	54	<750	4
55604	7334 Duplicate	8.2	47	<750	4
% Recovery =		61	112	76	94
Analytical Method:	EPA SW 846/Method 3050				
Limit of Detection:		0.5 mg/g	15 ug/g	750 ug/g	2 ug/g

Sample was not corrected for percent recovery.

Clayton Environmental Consultants, Inc.

Analytical Data

for

Enviresponse, Inc.

Clayton Project No. 12512-47

Oil Sample

Lab Number	Sample Description	Chromium (ug/g)	Copper (ug/g)	Nickel (ug/g)	Beryllium (ug/g)
55604	7334	30	7	5.5	<2
55604	7334 Duplicate	31	9	5.4	<2
% Recovery =		107	100	92	66
Analytical Method: EPA SS 846/Method: 3050					
Limit of Detection:		3 ug/g	3 ug/g	5 ug/g	2 ug/g

Sample was not corrected for percent recovery.

Clayton Environmental Consultants, Inc.

Analytical Data

for

Enviresponse, Inc.

Clayton Project No. 12512-47

Oil Sample

Lab Number	Sample Description	Lead (ug/g)	Selenium (ug/g)	Vanadium (ug/g)	Zinc (ug/g)
55604	7334	23	<1	<50	44
55604	7334 Duplicate	22	<1	<50	49
% Recovery =		107	3	107	89
Analytical Method:	EPA SW 846/Method 3050				
Limit of Detection:		10 ug/g	1 ug/g	50 ug/g	3 ug/g

Sample was not corrected for percent recovery.

Clayton Environmental Consultants, Inc.

Analytical Data

for

Enviresponse, Inc.

Clayton Project No. 12512-47

Oil Sample

Lab Number	Sample Description	Aluminum (ug/g)	Manganese (ug/g)	Iron (ug/g)
55604	7334	1000	78	711
55604	7334 Duplicate	1000	94	710
% Recovery =		88	100	78
Analytical Method:	EPA SW 846/Method 3050			
Limit of Detection:		50 ug/g	3 ug/g	3 ug/g

Sample was not corrected for percent recovery.

0889

2 2

SHEET NO. 1 OF 1

ENVIRESPONSE, INC.

CHAIN OF CUSTODY RECORD

PROJECT NAME GRASSMERE

PROJECT NO.

SAMPLER(S) SIGNATURE C Burchette, Paul J McNally

	SAMPLE IDENTIFICATION	SAMPLING LOCATION	DATE SAMPLED	SAMPLE TYPE: WATER	SAMPLE TYPE: SOLID	SAMPLE TYPE: AIR	SAMPLE TYPE: OIL	COMP	GRAB	VOLUME TO BE COLLECTED	NO. OF CONTAINERS	TIME COLLECTION BEGAN	INITIAL	TIME COLLECTION COMPLETED	INITIAL	COMMENTS	
55602	7332	WELL#2	9/11/86	✓					✓	4x40ml	4	8:00	CB	5:00pm	CB	P.P. VOA AMC	MI
55602	7332	WELL#2	9/11/86	✓					✓	4x1L	4	"	CB	5:00	CB	P.P. BNA PESTICIDE PCB AM	MI
55602	7332	WELL#2	9/11/86	✓					✓	1L	1	"	CB	"	CB	P.P. total metals	Edison
55602	7332	WELL#2	"	✓					✓	250mL	1	"	CB	"	CB	AL, FE, MN	Edison
55601	7331	WELL#1	9-11-86	✓					✓	4x40ml	4	0900	[illegible]	1200	[illegible]	P.P. VOA AMC	MI

RELINQUISHED BY: NAME [signature] DATE/TIME 9/12/86 1600

RELINQUISHED BY: NAME DATE/TIME

RELINQUISHED BY: NAME DATE/TIME

AUTHORIZATION FOR DISPOSAL DATE/TIME

RECEIVED BY: NAME DATE/TIME

RECEIVED BY: NAME Odette Hines DATE/TIME 9/15 4:15 p.m

RECEIVED BY: NAME A. McNary DATE/TIME 9/18, 10:20

DISPOSED BY: DATE/TIME

005

002-01

0890

22

SHEET NO. 1 OF 1

ENVIRESPONSE, INC.

CHAIN OF CUSTODY RECORD

PROJECT NAME GRASSHERE

PROJECT NO.

SAMPLER(S) SIGNATURE Cynthia Bunchetta

	SAMPLE IDENTIFICATION	SAMPLING LOCATION	DATE SAMPLED	SAMPLE TYPE: WATER	SOLID	AIR	OIL	COMP	GRAB	VOLUME TO BE COLLECTED	NO. OF CONTAINERS	TIME COLLECTION BEGAN	INITIAL	TIME COLLECTION COMPLETED	INITIAL	COMMENTS	
5560X	7334	SAAD WELL	9/11/86	✓					✓	160mL	4	0800	CB	1500	CB	P.P. VOA AMC	MI
5560X	7334	SAAD WELL	"	✓					✓	3x8oz	3	"	CB	"	CB	P.P. PETROLEUM HYDROCARB. AMC	MI
5560X	7334	"	"	✓					✓	1L	1	"	CB	"	CB	P.P. total metals	Ediso
5603	7333	CROFT SPRING	"	✓					✓	1L	1	"	CB	"	CB	P.P. total metals	Ediso
5605	7346	GRASSHERE BLANK	"	✓					✓	4L	4	"	CB	"	CB	P.P. BNA PESTICIDE PCB. AMC	MI
5605	7346	"	"	✓					✓	250mL	1	"	CB	"	CB	AL, FE, MN	Ediso
5605	7346	"	"	✓					✓	1L	1	"	CB	"	CB	P.P. total metals	Ediso
5605	7346	"	"	✓					✓	160mL	4	"	CB		CB	P.P. VOA AMC	MI

RELINQUISHED BY: NAME [signature] DATE/TIME 9/12/86 1600 RECEIVED BY: NAME DATE/TIME

RELINQUISHED BY: NAME DATE/TIME RECEIVED BY: NAME Odette Hino DATE/TIME 9/15 4:15 P.M.

RELINQUISHED BY: NAME DATE/TIME RECEIVED BY: NAME A McNary DATE/TIME 9/18 10:20

AUTHORIZATION FOR DISPOSAL DATE/TIME DISPOSED BY: DATE/TIME

900

002-02

1680

22

SHEET NO. 1 OF 1

ENVIRESPONSE, INC.

CHAIN OF CUSTODY RECORD

PROJECT NAME GRASSMERE

PROJECT NO.

SAMPLER(S) SIGNATURE Cynthia Bouchette

	SAMPLE IDENTIFICATION	SAMPLING LOCATION	DATE SAMPLED	SAMPLE TYPE: WATER	SOLID	AIR	OIL	COMP	GRAB	VOLUME TO BE COLLECTED	NO. OF CONTAINERS	TIME COLLECTION BEGAN	INITIAL	TIME COLLECTION COMPLETED	INITIAL	COMMENTS	
5606	7335	SPRING #2	9/11/86	✓					✓	3L	3	8:00AM	CB	5:00	CB	P.P. BNA, PESTICIDE, PCB	AML
5606	7335	"	"	✓					✓	250mL	1	"	CB	"	CB	AL, FE, MN	Ediso
5606	7335	"	"	✓					✓	160mL	4	"	CB	"	CB	P.P. VOA	AML MI
5606	7335	"	"	✓					✓	1L	1	"	CB	"	CB	P.P. total metals	Ediso
5607	7353	WELL #3	"	✓					✓	160mL	4	"	CB	"	CB	P.P. VOA	AML MI
5607	7353	WELL #3	"	✓					✓	250mL	1	"	CB	"	CB	AL, FE, MN	Ediso

RELINQUISHED BY: NAME [signature] DATE/TIME 9/12/86 RECEIVED BY NAME DATE/TIME

RELINQUISHED BY: NAME DATE/TIME RECEIVED BY: NAME Odette Silva DATE/TIME 9/15 4:15 P.M.

RELINQUISHED BY: NAME DATE/TIME RECEIVED BY: NAME A McNary DATE/TIME 9/18 10:20

AUTHORIZATION FOR DISPOSAL DATE/TIME DISPOSED BY: DATE/TIME

007

002-03

0892

22

ENVIRESPONSE, INC.

CHAIN OF CUSTODY RECORD

SHEET NO. 1 OF 1

PROJECT NAME GRASS HERE

SAMPLER(S) SIGNATURE Paul J McNally

PROJECT NO.

	SAMPLE IDENTIFICATION	SAMPLING LOCATION	DATE SAMPLED	SAMPLE TYPE WATER	SOL ID	AIR	OIL	COMP	GRAB	VOLUME TO BE COLLECTED	NO. OF CONTAINERS	TIME COLLECTION BEGAN	INITIAL	TIME COLLECTION COMPLETED	INITIAL	COMMENTS	
55608	7341	SSLW #1 IRR	9-12	✓					✓	160 ml	4	0800	PM	1700	PM	P.P. VOA AM	MI
55608	7341	"	9-12	✓					✓	3L	3	0800	PM	1200	PM	P.P. BNA, PCB, PEST AM	MI
55609	7342	Lagoon	9-12	✓					✓	160 ml	4	0800	PM	1200	PM	P.P. VOA AM	MI
55609	7342	"	9-12	✓					✓	3L	3	0800	PM	1200	PM	P.P., BNA, PCB, PEST AM	MI
55610	7344	Highway Pit	9-12	✓					✓	160 ml	4	0800	PM	1200	PM	PP VOA AM	MI
55610	7344	"	9-12	✓					✓	3L	3	0800	PM	1200	PM	P.P. BNA PCB, PEST AM	MI
55611	7345	Site Drain	9-12	✓					✓	160 ml	4	0800	PM	1200	PM	PP VOA AM	MI
55611	7345	"	9-12	✓					✓	3L	3	0800	PM	1200	PM	PP BNA, PCB, PEST AM	MI

800

002-04

RELINQUISHED BY: NAME [signature] DATE/TIME 9/12/86 1600 RECEIVED BY: NAME DATE/TIME

RELINQUISHED BY: NAME DATE/TIME RECEIVED BY: NAME Odette Hima DATE/TIME 9/15 4:15 PM

RELINQUISHED BY: NAME DATE/TIME RECEIVED BY: NAME A McNary DATE/TIME 9/19 10:20

AUTHORIZATION FOR DISPOSAL DATE/TIME DISPOSED BY: DATE/TIME

0893

2 2

SHEET NO. 1 OF 1

ENVIRESPONSE, INC.

CHAIN OF CUSTODY RECORD

PROJECT NAME GRASSMERE

PROJECT NO.

SAMPLER(S) SIGNATURE Cynthia Burchette

	SAMPLE IDENTIFICATION	SAMPLING LOCATION	DATE SAMPLED	SAMPLE TYPE: WATER	SOLID	AIR	OIL	COMP.	GRAB	VOLUME TO BE COLLECTED	NO. OF CONTAINERS	TIME COLLECTION BEGAN	INITIAL	TIME COLLECTION COMPLETED	INITIAL	COMMENTS	
55607	7353	WELL #3	9/11/86	✓					✓	1L	1	0800	CB	1700	CB	P.P. total metals	Ediso
55603	7333	CROFT SPRING	9/11/86	✓					✓	3L	3	"	CB	"	CB	P.P. BNA PESTICIDE PCB	MI
55603	7333	"	9/11/86	✓					✓	250mL	1	"	CB	"	CB	AL, FE, MN	Ediso
55603	7333	"	9/11/86	✓					✓	160mL	4	"	CB	"	CB	P.P. VOA	MI
55604	7334	SAAD WELL	"	✓					✓	4L	4	"	CB	"	CB	P.P. BNA PESTICIDE PCB	MI

RELINQUISHED BY: NAME [signature] DATE/TIME 9/12/86

RELINQUISHED BY: NAME DATE/TIME

RELINQUISHED BY: NAME DATE/TIME

AUTHORIZATION FOR DISPOSAL DATE/TIME

RECEIVED BY: NAME DATE/TIME

RECEIVED BY: NAME Odette Hima DATE/TIME 9/15 4:15 p.m.

RECEIVED BY: NAME A McNary DATE/TIME 9/18 10:28

DISPOSED BY: DATE/TIME

002-05

600