0208-03/01/97-02295

FINAL

Contractor's Closeout Report for Sites 6 and 82 Source Removal Operable Unit No. 2 MCB Camp Lejeune Jacksonville, North Carolina

Volume IX of IX

Prepared for:

DEPARTMENT OF THE NAVY
Contract No. N62470-93-D-3032
Delivery Order 0032

Prepared by

OHM Remediation Services Corp.
A Subsidiary of OHM Corporation

5335 Triangle Parkway, Suite 450
Norcross, GA 30092

March 1997

OHM Project No. 15226

02.08-03/01/97-02295 - 0135

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ASC Contract: NEESA

Lab Code: N/A Case No.: ~~15626N~~ 15626N SAS No.: N/A SDG No.: ~~A0255-24~~ 11204184

Lab File ID: B5288 DFTPP Injection Date: 12/21/94

Instrument ID: MSB.e Time: 22:39

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	49.6
68	Less than 2.0% of mass 69	0 (0)
69	Mass 69 relative abundance	59.2
70	Less than 2.0% of mass 69	0.3 (0.6)
127	25.0 - 75.0% of mass 198	41.1
197	Less than 1.0% of mass 198	0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.4
275	10.0 - 30.0% of mass 198	19.7
365	Greater than 0.75% of mass 198	2.00
441	Present, but less than mass 443	82
442	40.0 - 110.0% of mass 198	72.4
443	15.0 - 24.0% of mass 442	14.2 (19.7)

1-Value is % mass 69 2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD50	SSTD50	B5289	12/21/95	23:00
02	SBLK01	SBLK01	B5298		04:46
03	SSPK01	SSPK01	B5299		05:22
04	A0255-74D	JN6452C	B5300		05:58
05	A0255-83B	JN6453C	B5301		06:35
06	A0255-92B	JN6454C	B5302		07:12
07	A0255-107C	JN6455C	B5303		07:48
08	A0255-108A	JN6456C	B5304		08:25
09	A0255-105	JN6036C	B5305		09:02
10	A0255-106	JN6037C	B5306		09:38
11	~~DX~~LT-DD-01	JN6023C	B5307		10:14
12					
13					
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22					

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ASC Contract: NEESA

Lab Code: N/A Case No.: ~~15336~~ 15336N SAS No.: N/A SDG No.: ~~A0255-74~~ N2441824

Lab File ID: B5354 DFTPP Injection Date: 12/30/94

Instrument ID: MSB.m DFTPP Injection Time: 06:43

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	46.4
68	Less than 2.0% of mass 69	0 (0)
69	Mass 69 relative abundance	58.9
70	Less than 2.0% of mass 69	0.3 (0.5)
127	25.0 - 75.0% of mass 198	40.7
197	Less than 1.0% of mass 198	0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.7
275	10.0 - 30.0% of mass 198	17.5
365	Greater than 0.75% of mass 198	1.97
441	Present, but less than mass 443	79
442	40.0 - 110.0% of mass 198	70.0
443	15.0 - 24.0% of mass 442	14.1 (20.2)

1-Value is % mass 69 2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD50	SSTD50	B5355	12/30/94	07:04
02	A0155-104MS	JN6035CS	B5361	↓	10:55
03	A0155-104MSD	JN6035CR	B5362	↓	11:32
04	A0255-104	JN6035C	B5369	↓	16:24
05					
06					
07					
08					
09					
10					
11					
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15					
16					
17					
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19					
20					
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22					

Report Date : 21-Dec-1994 13:52 Page 1

Analytical Services Corp.

INITIAL CALIBRATION DATA

Start Cal Date : 21-DEC-94 09:45
End Cal Date : 21-DEC-94 13:17
Quant Method : ISTD
Cal Curve Type : Averaged
Target Version : Target 3.00
Integrator : HP RTE
Method file : /chem/aux/msb.i/b122194.b/bnaclpb.m
Cal Date : 21-Dec-1994 13:51

Calibration File Names:
Level 1: /chem/aux/msb.i/b122194.b/b5278.d
Level 2: /chem/aux/msb.i/b122194.b/b5274.d
Level 3: /chem/aux/msb.i/b122194.b/b5275.d
Level 4: /chem/aux/msb.i/b122194.b/b5276.d
Level 5: /chem/aux/msb.i/b122194.b/b5277.d

	Compound	20 Level 1	50 Level 2	80 Level 3	120 Level 4	160 Level 5	___ RRF	% RSD/R^2	
1	Pyridine	0.90879	0.96185	1.03652	1.02989	1.06143	0.99970	6.282	
2	N-Nitrosodimethylamine	0.56951	0.60191	0.72675	0.74046	0.69379	0.66648	11.482	
5	Phenol	1.57090	1.42583	1.49064	1.44441	1.32880	1.45211	6.116	
6	bis(2-Chloroethyl)ether	1.34166	1.20037	1.23011	1.18990	1.09360	1.21113	7.359	
8	2-Chlorophenol	1.20022	1.10665	1.18089	1.15683	1.06672	1.14226	4.803	
9	1,3-Dichlorobenzene	1.36694	1.24441	1.31795	1.31297	1.22162	1.29278	4.567	
11	1,4-Dichlorobenzene	1.45440	1.29732	1.36057	1.35355	1.22083	1.33733	6.441	
13	1,2-Dichlorobenzene	1.35917	1.17864	1.21347	1.15830	0.97880	1.17768	11.561	
14	2-Methylphenol	1.24196	1.13543	1.15012	1.14897	1.05119	1.14553	5.910	
15	2,2'-oxybis(1-Chloropropene)	2.24331	2.07489	2.24611	2.27941	2.13386	2.19552	3.960	
16	4-Methylphenol	1.16276	1.04753	1.11746	1.09047	0.99892	1.08343	5.825	
17	N-Nitroso-di-n-propylamine	1.08776	1.00425	1.03536	1.00443	0.88409	1.00318	7.456	
18	Hexachloroethane	0.61785	0.56472	0.58779	0.54675	0.45828	0.55508	10.862	
20	Nitrobenzene	0.37043	0.32545	0.35843	0.34004	0.30884	0.34064	7.260	
21	Isophorone	0.74876	0.67127	0.74746	0.72831	0.68628	0.71641	4.983	
22	2-Nitrophenol	0.20339	0.18687	0.20856	0.20012	0.18493	0.19678	5.283	
23	2,4-Dimethylphenol	0.36541	0.31545	0.35147	0.33787	0.31041	0.33612	6.953	
24	bis(2-Chloroethoxy)methane	0.46939	0.42078	0.45545	0.42880	0.39635	0.43415	6.647	
25	2,4-Dichlorophenol	0.30078	0.26907	0.29097	0.27372	0.24697	0.27630	7.534	
26	1,2,4-Trichlorobenzene	0.32214	0.28068	0.29831	0.28390	0.25763	0.28853	8.244	
28	Naphthalene	0.97279	0.83730	0.80359	0.65414	0.51719	0.75700	23.190	<-
29	4-Chloroaniline	0.44266	0.39520	0.43344	0.40882	0.36886	0.40980	7.248	
30	Hexachlorobutadiene	0.18277	0.15239	0.16417	0.15035	0.14281	0.15850	9.829	
31	4-Chloro-3-methylphenol	0.32934	0.29693	0.33350	0.32092	0.28535	0.31321	6.721	
32	2-Methylnaphthalene	0.64916	0.58014	0.61039	0.54915	0.46971	0.57171	11.888	
33	1-Methylnaphthalene	2.09957	1.94984	2.02471	1.97700	1.74256	1.95874	6.818	
34	Hexachlorocyclopentadiene	0.14044	0.20160	0.25780	0.25660	0.27047	0.22538	24.139	

Analytical Services Corp.

INITIAL CALIBRATION DATA

Start Cal Date : 21-DEC-94 09:45
End Cal Date : 21-DEC-94 13:17
Quant Method : ISTD
Cal Curve Type : Averaged
Target Version : Target 3.00
Integrator : HP RTE
Method file : /chem/aux/msb.i/b122194.b/bnaclpb.m
Cal Date : 21-Dec-1994 13:51

	Compound	20 Level 1	50 Level 2	80 Level 3	120 Level 4	160 Level 5	RRF	% RSD/R^2	
35	2,4,6-Trichlorophenol	0.32646	0.30993	0.34038	0.33678	0.33817	0.33034	3.815	
36	2,4,5-Trichlorophenol	0.38600	0.35970	0.39229	0.40914	0.38959	0.38735	4.601	
38	2-Chloronaphthalene	0.99396	0.87205	0.95415	0.95046	0.83536	0.92120	7.081	
39	2-Nitroaniline	0.39456	0.36291	0.41756	0.44014	0.43135	0.40930	7.605	
40	Dimethylphthalate	1.31216	1.17386	1.28727	1.23633	1.12409	1.22674	6.365	
41	2,6-Dinitrotoluene	0.31433	0.28572	0.32073	0.33145	0.31958	0.31436	5.463	
42	Acenaphthylene	1.72278	1.48119	1.51108	1.30229	1.13912	1.43129	15.459	
43	3-Nitroaniline	0.35769	0.30638	0.33969	0.34369	0.33766	0.33702	5.587	
45	Acenaphthene	1.04382	0.89903	0.96352	0.93485	0.85562	0.93937	7.556	
46	2,4-Dinitrophenol	+++++	0.12632	0.16868	0.19967	0.21347	0.17704	21.831	
47	4-Nitrophenol	0.09584	0.10863	0.12465	0.13614	0.12844	0.11874	13.699	
48	Dibenzofuran	1.43030	1.28990	1.38429	1.24872	1.05178	1.28100	11.488	
49	2,4-Dinitrotoluene	0.45029	0.40557	0.47071	0.48805	0.47512	0.45795	7.047	
50	Diethylphthalate	1.37704	1.20796	1.26717	1.15269	0.96860	1.19469	12.664	
51	4-Chlorophenyl-phenylether	0.65246	0.56272	0.60120	0.57281	0.51240	0.58032	8.879	
52	Fluorene	1.20743	1.02841	1.05290	0.94095	0.79247	1.00443	15.188	
53	4-Nitroaniline	0.38448	0.34465	0.39732	0.41099	0.40313	0.38811	6.738	
54	4,6-Dinitro-2-methylphenol	0.11112	0.11438	0.14182	0.14806	0.14773	0.13262	13.834	
55	N-Nitrosodiphenylamine	0.50837	0.43364	0.47265	0.43360	0.38391	0.44643	10.483	
57	4-Bromophenyl-phenylether	0.22363	0.19796	0.20911	0.19919	0.18881	0.20374	6.500	
58	Hexachlorobenzene	0.27373	0.24272	0.25635	0.24934	0.23227	0.25089	6.198	
59	Pentachlorophenol	+++++	0.04691	0.08002	0.10044	0.09929	0.08167	30.603	<-
61	Phenanthrene	1.08128	0.91676	0.89906	0.74853	0.63916	0.85696	19.774	
62	Anthracene	1.12756	0.92907	0.90313	0.73369	0.62973	0.86464	22.178	<-
63	Carbazole	0.97304	0.88226	0.88281	0.76449	0.64634	0.82979	15.244	
64	Di-n-butylphthalate	1.50402	1.23178	1.05109	0.81281	0.67293	1.05453	31.363	
65	Fluoranthene	1.19618	1.02814	1.00662	0.82372	0.70602	0.95214	20.022	
66	Benzidine	0.67552	0.54394	0.54837	+++++	+++++	0.58928	12.680	
67	Pyrene	1.38772	1.16974	1.10688	1.00511	0.93892	1.12167	15.461	
69	Butylbenzylphthalate	0.78368	0.70563	0.73354	0.70492	0.67551	0.72066	5.658	
70	Benzo(a)anthracene	1.13263	0.97084	0.97415	0.95164	0.91834	0.98952	8.390	
72	3,3'-Dichlorobenzidine	0.46257	0.39342	0.40328	0.37302	0.37612	0.40168	9.022	
73	Chrysene	1.09931	1.00462	0.93823	0.87309	0.83776	0.95060	11.024	
74	bis(2-Ethylhexyl)phthalate	1.16124	1.01206	0.97003	0.84222	0.77909	0.95293	15.711	

Analytical Services Corp.

INITIAL CALIBRATION DATA

Start Cal Date : 21-DEC-94 09:45
End Cal Date : 21-DEC-94 13:17
Quant Method : ISTD
Cal Curve Type : Averaged
Target Version : Target 3.00
Integrator : HP RTE
Method file : /chem/aux/msb.i/b122194.b/bnaclpb.m
Cal Date : 21-Dec-1994 13:51

	Compound	20 Level 1	50 Level 2	80 Level 3	120 Level 4	160 Level 5	___ RRF	% RSD/R^2
	75 Di-n-octylphthalate	2.39663	1.96529	1.63588	1.28487	1.15019	1.68657	30.139
	76 Benzo(b)fluoranthene	1.45395	1.08171	1.24483	1.14861	1.29629	1.24508	11.517
	77 Benzo(k)fluoranthene	1.42450	1.45081	1.46758	1.37345	0.99320	1.34191	14.767
	78 Benzo(a)pyrene	1.21012	1.13732	1.27262	1.15335	1.12605	1.17989	5.178
	80 Indeno(1,2,3-cd)pyrene	1.24674	1.19681	1.31046	1.20992	1.28203	1.24919	3.823
	81 Dibenzo(a,h)anthracene	1.04782	1.01387	1.11317	1.01858	1.05048	1.04879	3.778
	82 Benzo(g,h,i)perylene	0.99309	1.01189	1.11034	1.00260	1.06819	1.03722	4.843
|S	3 2-Fluorophenol	1.04610	0.98518	1.07667	1.09869	1.05563	1.05245	4.059
|S	4 Phenol-d5	1.45278	1.29904	1.35490	1.32203	1.21669	1.32909	6.467
|S	7 2-Chlorobenzene-D4	1.17916	1.09557	1.13347	1.09421	0.99981	1.10044	6.007
|S	12 1,2-Dichlorobenzene-D4	0.85484	0.74006	0.74621	0.69575	0.58968	0.72531	13.206
|S	19 Nitrobenzene-d5	0.37509	0.32563	0.37152	0.36067	0.33975	0.35453	5.987
|S	37 2-Fluorobiphenyl	1.08581	0.96136	1.02215	0.99162	0.88243	0.98867	7.603
|S	56 2,4,6-Tribromophenol	0.17697	0.17792	0.19611	0.20674	0.20505	0.19256	7.468
|S	68 Terphenyl-d14	0.91202	0.77211	0.80045	0.75835	0.73680	0.79595	8.653

Data File: /chem/aux/msb.i/b1221a94.b/b5289.d
Report Date: 21-Dec-1994 23:37

Analytical Services Corp.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msb.i
Lab File ID: b5289.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 21-DEC-94 23:00
Init. Calibration Date(s): 12/21/94 12/21/94
Init. Calibration Times: 09:45 13:17
Method File: /chem/aux/msb.i/b1221a94.b/bnaclpb.m

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
	1 Pyridine	1.000	0.920	0.010	8.0	100.0
	2 N-Nitrosodimethylamine	0.666	0.612	0.010	8.2	100.0
S	3 2-Fluorophenol	1.052	1.004	0.600	4.6	25.0
S	4 Phenol-d5	1.329	1.294	0.800	2.7	25.0
	5 Phenol	1.452	1.431	0.800	1.4	25.0
	6 bis(2-Chloroethyl)ether	1.211	1.194	0.700	1.4	25.0
S	7 2-Chlorobenzene-D4	1.100	1.097	0.700	0.3	25.0
	8 2-Chlorophenol	1.142	1.121	0.800	1.9	25.0
	9 1,3-Dichlorobenzene	1.293	1.241	0.600	4.0	25.0
	11 1,4-Dichlorobenzene	1.337	1.311	0.500	1.9	25.0
S	12 1,2-Dichlorobenzene-D4	0.725	0.738	0.700	1.7	25.0
	13 1,2-Dichlorobenzene	1.178	1.180	0.400	0.2	25.0
	14 2-Methylphenol	1.146	1.119	0.700	2.3	25.0
	15 2,2'-oxybis(1-Chloropropene)	2.196	1.976	0.010	10.0	100.0
	16 4-Methylphenol	1.083	1.084	0.600	0.1	25.0
	17 N-Nitroso-di-n-propylamine	1.003	0.997	0.500	0.6	25.0
	18 Hexachloroethane	0.555	0.561	0.300	1.0	25.0
S	19 Nitrobenzene-d5	0.355	0.328	0.200	7.3	25.0
	20 Nitrobenzene	0.341	0.324	0.200	4.9	25.0
	21 Isophorone	0.716	0.663	0.400	7.4	25.0
	22 2-Nitrophenol	0.197	0.188	0.100	4.5	25.0
	23 2,4-Dimethylphenol	0.336	0.316	0.200	6.1	25.0
	24 bis(2-Chloroethoxy)methane	0.434	0.411	0.300	5.3	25.0
	25 2,4-Dichlorophenol	0.276	0.268	0.200	2.9	25.0
	26 1,2,4-Trichlorobenzene	0.289	0.280	0.200	3.1	25.0
	28 Naphthalene	0.757	0.832	0.700	10.0	25.0
	29 4-Chloroaniline	0.410	0.390	0.010	4.9	100.0
	30 Hexachlorobutadiene	0.158	0.144	0.010	9.3	100.0
	31 4-Chloro-3-methylphenol	0.313	0.297	0.200	5.0	25.0
	32 2-Methylnaphthalene	0.572	0.588	0.400	2.9	25.0
	33 1-Methylnaphthalene	1.959	1.977	0.010	0.9	100.0
	34 Hexachlorocyclopentadiene	0.225	0.200	0.010	11.4	100.0
	35 2,4,6-Trichlorophenol	0.330	0.317	0.200	4.1	25.0
	36 2,4,5-Trichlorophenol	0.387	0.354	0.200	8.5	25.0
S	37 2-Fluorobiphenyl	0.989	0.950	0.700	3.9	25.0
	38 2-Chloronaphthalene	0.921	0.876	0.800	4.9	25.0
	39 2-Nitroaniline	0.409	0.361	0.010	11.7	100.0
	40 Dimethylphthalate	1.227	1.179	0.010	3.9	100.0
	41 2,6-Dinitrotoluene	0.314	0.293	0.200	6.8	25.0
	42 Acenaphthylene	1.431	1.512	1.300	5.7	25.0

Data File: /chem/aux/msb.i/b1221a94.b/b5289.d
Report Date: 21-Dec-1994 23:37

Analytical Services Corp.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msb.i
Lab File ID: b5289.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 21-DEC-94 23:00
Init. Calibration Date(s): 12/21/94 12/21/94
Init. Calibration Times: 09:45 13:17
Method File: /chem/aux/msb.i/b1221a94.b/bnaclpb.m

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D	
	43 3-Nitroaniline	0.337	0.321	0.010	4.8	100.0	
	45 Acenaphthene	0.939	0.893	0.800	5.0	25.0	
	46 2,4-Dinitrophenol	0.177	0.120	0.010	32.4	100.0	
	47 4-Nitrophenol	0.119	0.105	0.010	11.6	100.0	
	48 Dibenzofuran	1.281	1.294	0.800	1.0	25.0	
	49 2,4-Dinitrotoluene	0.458	0.415	0.200	9.3	25.0	
	50 Diethylphthalate	1.195	1.187	0.010	0.6	100.0	
	51 4-Chlorophenyl-phenylether	0.580	0.562	0.400	3.1	25.0	
	52 Fluorene	1.004	1.029	0.900	2.5	25.0	
	53 4-Nitroaniline	0.388	0.346	0.010	11.0	100.0	
	54 4,6-Dinitro-2-methylphenol	0.133	0.116	0.010	12.3	100.0	
	55 N-Nitrosodiphenylamine	0.446	0.423	0.010	5.4	100.0	
S	56 2,4,6-Tribromophenol	0.193	0.174	0.010	9.8	100.0	
	57 4-Bromophenyl-phenylether	0.204	0.194	0.100	4.7	25.0	
	58 Hexachlorobenzene	0.251	0.237	0.100	5.6	25.0	
	59 Pentachlorophenol	0.082	0.061	0.050	25.4	25.0	<-
	61 Phenanthrene	0.857	0.915	0.700	6.8	25.0	
	62 Anthracene	0.865	0.942	0.700	9.0	25.0	
	63 Carbazole	0.830	0.875	0.010	5.5	100.0	
	64 Di-n-butylphthalate	1.055	1.263	0.010	19.7	100.0	
	65 Fluoranthene	0.952	1.046	0.600	9.8	25.0	
	66 Benzidine	0.589	0.394	0.010	33.1	100.0	
	67 Pyrene	1.122	1.094	0.600	2.5	25.0	
S	68 Terphenyl-d14	0.796	0.700	0.500	12.0	25.0	
	69 Butylbenzylphthalate	0.721	0.652	0.010	9.5	100.0	
	70 Benzo(a)anthracene	0.990	0.881	0.800	10.9	25.0	
	72 3,3'-Dichlorobenzidine	0.402	0.358	0.010	11.0	100.0	
	73 Chrysene	0.951	0.861	0.700	9.4	25.0	
	74 bis(2-Ethylhexyl)phthalate	0.953	0.945	0.010	0.8	100.0	
	75 Di-n-octylphthalate	1.687	1.937	0.010	14.9	100.0	
	76 Benzo(b)fluoranthene	1.245	1.186	0.700	4.8	25.0	
	77 Benzo(k)fluoranthene	1.342	1.398	0.700	4.2	25.0	
	78 Benzo(a)pyrene	1.180	1.120	0.700	5.1	25.0	
	80 Indeno(1,2,3-cd)pyrene	1.249	1.105	0.500	11.6	25.0	
	81 Dibenzo(a,h)anthracene	1.049	0.963	0.400	8.2	25.0	
	82 Benzo(g,h,i)perylene	1.037	0.899	0.500	13.3	25.0	

Data File: /chem/msb.i/b123094.b/b5355.d
Report Date: 30-Dec-1994 07:43

Analytical Services Corp.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msb.i
Lab File ID: b5355.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 30-DEC-94 07:04
Init. Calibration Date(s): 12/21/94 12/21/94
Init. Calibration Times: 09:45 13:17
Method File: /chem/msb.i/b123094.b/bnaclpb.m

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
	1 Pyridine	1.000	0.848	0.010	15.2	100.0
	2 N-Nitrosodimethylamine	0.666	0.539	0.010	19.2	100.0
$	3 2-Fluorophenol	1.052	0.946	0.600	10.2	25.0
$	4 Phenol-d5	1.329	1.255	0.800	5.6	25.0
	5 Phenol	1.452	1.441	0.800	0.8	25.0
	6 bis(2-Chloroethyl)ether	1.211	1.066	0.700	12.0	25.0
$	7 2-Chlorobenzene-D4	1.100	1.017	0.700	7.5	25.0
	8 2-Chlorophenol	1.142	1.050	0.800	8.1	25.0
	9 1,3-Dichlorobenzene	1.293	1.202	0.600	7.0	25.0
	11 1,4-Dichlorobenzene	1.337	1.227	0.500	8.3	25.0
$	12 1,2-Dichlorobenzene-D4	0.725	0.800	0.700	10.3	25.0
	13 1,2-Dichlorobenzene	1.178	1.135	0.400	3.6	25.0
	14 2-Methylphenol	1.146	1.043	0.700	9.0	25.0
	15 2,2'-oxybis(1-Chloropropene)	2.196	2.065	0.010	6.0	100.0
	16 4-Methylphenol	1.083	1.017	0.600	6.1	25.0
	17 N-Nitroso-di-n-propylamine	1.003	0.876	0.500	12.7	25.0
	18 Hexachloroethane	0.555	0.545	0.300	1.8	25.0
$	19 Nitrobenzene-d5	0.355	0.343	0.200	3.4	25.0
	20 Nitrobenzene	0.341	0.345	0.200	1.3	25.0
	21 Isophorone	0.716	0.700	0.400	2.3	25.0
	22 2-Nitrophenol	0.197	0.196	0.100	0.6	25.0
	23 2,4-Dimethylphenol	0.336	0.314	0.200	6.5	25.0
	24 bis(2-Chloroethoxy)methane	0.434	0.418	0.300	3.7	25.0
	25 2,4-Dichlorophenol	0.276	0.271	0.200	1.9	25.0
	26 1,2,4-Trichlorobenzene	0.289	0.308	0.200	6.7	25.0
	28 Naphthalene	0.757	0.814	0.700	7.5	25.0
	29 4-Chloroaniline	0.410	0.373	0.010	9.0	100.0
	30 Hexachlorobutadiene	0.158	0.165	0.010	4.3	100.0
	31 4-Chloro-3-methylphenol	0.313	0.315	0.200	0.7	25.0
	32 2-Methylnaphthalene	0.572	0.563	0.400	1.5	25.0
	33 1-Methylnaphthalene	1.959	1.888	0.010	3.6	100.0
	34 Hexachlorocyclopentadiene	0.225	0.218	0.010	3.4	100.0
	35 2,4,6-Trichlorophenol	0.330	0.353	0.200	6.8	25.0
	36 2,4,5-Trichlorophenol	0.387	0.400	0.200	3.2	25.0
$	37 2-Fluorobiphenyl	0.989	0.969	0.700	2.0	25.0
	38 2-Chloronaphthalene	0.921	0.909	0.800	1.4	25.0
	39 2-Nitroaniline	0.409	0.380	0.010	7.1	100.0
	40 Dimethylphthalate	1.227	1.151	0.010	6.2	100.0
	41 2,6-Dinitrotoluene	0.314	0.311	0.200	1.2	25.0
	42 Acenaphthylene	1.431	1.416	1.300	1.1	25.0

Data File: /chem/msb.i/b123094.b/b5355.d
Report Date: 30-Dec-1994 07:43

Analytical Services Corp.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msb.i
Lab File ID: b5355.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 30-DEC-94 07:04
Init. Calibration Date(s): 12/21/94 12/21/94
Init. Calibration Times: 09:45 13:17
Method File: /chem/msb.i/b123094.b/bnaclpb.m

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
	43 3-Nitroaniline	0.337	0.304	0.010	9.8	100.0
	45 Acenaphthene	0.939	0.930	0.800	1.0	25.0
	46 2,4-Dinitrophenol	0.177	0.164	0.010	7.1	100.0
	47 4-Nitrophenol	0.119	0.140	0.010	17.9	100.0
	48 Dibenzofuran	1.281	1.283	0.800	0.1	25.0
	49 2,4-Dinitrotoluene	0.458	0.438	0.200	4.4	25.0
	50 Diethylphthalate	1.195	1.160	0.010	2.9	100.0
	51 4-Chlorophenyl-phenylether	0.580	0.569	0.400	2.0	25.0
	52 Fluorene	1.004	1.006	0.900	0.1	25.0
	53 4-Nitroaniline	0.388	0.370	0.010	4.5	100.0
	54 4,6-Dinitro-2-methylphenol	0.133	0.128	0.010	3.4	100.0
	55 N-Nitrosodiphenylamine	0.446	0.388	0.010	13.0	100.0
$	56 2,4,6-Tribromophenol	0.193	0.195	0.010	1.4	100.0
	57 4-Bromophenyl-phenylether	0.204	0.190	0.100	6.8	25.0
	58 Hexachlorobenzene	0.251	0.251	0.100	0.1	25.0
	59 Pentachlorophenol	0.082	0.080	0.050	2.5	25.0
	61 Phenanthrene	0.857	0.854	0.700	0.4	25.0
	62 Anthracene	0.865	0.853	0.700	1.3	25.0
	63 Carbazole	0.830	0.813	0.010	2.0	100.0
	64 Di-n-butylphthalate	1.055	1.255	0.010	19.0	100.0
	65 Fluoranthene	0.952	0.994	0.600	4.4	25.0
	66 Benzidine	0.589	0.400	0.010	32.1	100.0
	67 Pyrene	1.122	1.146	0.600	2.1	25.0
$	68 Terphenyl-d14	0.796	0.796	0.500	0.1	25.0
	69 Butylbenzylphthalate	0.721	0.687	0.010	4.7	100.0
	70 Benzo(a)anthracene	0.990	0.971	0.800	1.9	25.0
	72 3,3'-Dichlorobenzidine	0.402	0.372	0.010	7.3	100.0
	73 Chrysene	0.951	0.834	0.700	12.2	25.0
	74 bis(2-Ethylhexyl)phthalate	0.953	0.993	0.010	4.3	100.0
	75 Di-n-octylphthalate	1.687	1.988	0.010	17.9	100.0
	76 Benzo(b)fluoranthene	1.245	1.426	0.700	14.5	25.0
	77 Benzo(k)fluoranthene	1.342	1.038	0.700	22.7	25.0
	78 Benzo(a)pyrene	1.180	1.079	0.700	8.5	25.0
	80 Indeno(1,2,3-cd)pyrene	1.249	1.127	0.500	9.8	25.0
	81 Dibenzo(a,h)anthracene	1.049	0.900	0.400	14.2	25.0
	82 Benzo(g,h,i)perylene	1.037	0.894	0.500	13.8	25.0

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ASC Contract: NEESA

Lab Code: N/A Case No.: ~~15726N~~ 15726N SAS No.: N/A SDG No.: ~~A0255-74~~ N3C418HH

Lab File ID (Standard): B5289 Date Analyzed: 12/21/94

Instrument ID: MSB_E Time Analyzed: 23:00

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT
	12 HOUR STD	1881322	6.97	7223091	9.04	4650795	12.37
	UPPER LIMIT	3762644	7.47	14446182	9.54	9301590	12.87
	LOWER LIMIT	940661	6.47	3611545	8.54	2325397	11.87
	EPA SAMPLE NO.						
01	38LK01	2617183	6.96	9338910	9.03	5944997	12.37
02	3SPK01	2630582	6.97	10120582	9.05	6365334	12.37
03	A0255-74D	2673082	6.96	9504539	9.03	6079648	12.37
04	A0255-83B	2618929	6.96	9397324	9.03	5988935	12.36
05	A0255-92B	2534354	6.96	8949710	9.04	5856550	12.37
06	A0255-107C	2716433	6.96	9421266	9.03	6231759	12.37
07	A0255-108A	2789637	6.96	9428089	9.04	6255586	12.36
08	A0155-105	2115925	6.97	7424307	9.04	4786211	12.36
09	A0155-106	2198552	6.96	7721982	9.04	5043573	12.36
10	CLT-DD-01	2305110	6.96	8004298	9.04	5104333	12.36
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21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ASC Contract: NEESA N2C41844

Lab Code: N/A Case No.: ~~15226N~~ 15226N SAS No.: N/A SDG No.: ~~A0255-79~~

Lab File ID (Standard): B5289 Date Analyzed: 12/21/94

Instrument ID: MSB.I Time Analyzed: 23:00

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	12 HOUR STD	8444724		15.48		8339408		21.18		6603210		24.04	
	UPPER LIMIT	16889448		15.98		16678816		21.68		13206420		24.54	
	LOWER LIMIT	4222362		14.98		4169704		20.68		3301605		23.54	
	EPA SAMPLE NO.												
01	SBLK01	10602389		15.48		10169945		21.16		6008135		24.01	
02	SSPK01	11652500		15.49		10373143		21.19		6451147		24.03	
03	A0255-74D	10734797		15.47		9537752		21.16		5435231		24.02	
04	A0255-83D	10586044		15.47		9455813		21.16		5832546		24.01	
05	A0255-92D	10077047		15.46		9484847		21.15		5799803		24.01	
06	A0255-107C	10626795		15.47		9644370		21.16		5423839		24.01	
07	A0255-108A	10768948		15.47		9329999		21.16		5104379		24.03	
08	A0155-105	8484296		15.47		7493596		21.15		4508713		24.00	
09	A0155-106	8929767		15.47		7917957		21.15		4487478		24.00	
10	CLT-DD-01	8902911		15.47		7097700		21.15		2976891	*	24.02	
11													
12													
13													
14													
15													
16													
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19													
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22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ASC Contract: NEESA

Lab Code: N/A Case No.: ~~15329W~~ 15726N SAS No.: N/A SDG No.: ~~A0255-74~~ NA2411847

Lab File ID (Standard): B5355 Date Analyzed: 12/30/94

Instrument ID: MSB.I Time Analyzed: 07:04

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT
	12 HOUR STD	929191	6.58	3308941	8.65	2213362	11.87
	UPPER LIMIT	1858382	7.08	6617882	9.15	4426724	12.37
	LOWER LIMIT	464595	6.08	1654470	8.15	1106681	11.37
	EPA SAMPLE NO.						
01	A0155-104MS	1131330	6.52	3897979	8.63	2521286	11.86
02	A0155-104MSD	1193974	6.60	4137141	8.66	2700857	11.87
03	A0155-104	1238949	6.60	4139576	8.65	2699398	11.88
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ASC Contract: NEESA

Lab Code: N/A Case No.: ~~15026M~~ 15026N SAS No.: N/A SDG No.: ~~N2C41944~~ N2C41944

Lab File ID (Standard): B5355 Date Analyzed: 12/30/94

Instrument ID: MSB.E Time Analyzed: 02:04

	IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD	4272061	14.94	3832901	20.58	3280327	23.40
UPPER LIMIT	8544122	15.44	7665802	21.08	6560654	23.90
LOWER LIMIT	2136030	14.44	1916450	20.08	1640163	22.90
EPA SAMPLE NO.						
01 A0155-104 MS	4542037	~~15.07~~ ~~15.32~~	3624394	~~20.58~~ ~~20.82~~	2149834	~~23.39~~ ~~23.64~~
02 A0155-104 MSD	4655718	15.03	3052445	20.58	1455249 *	23.38
03 A0155-104	4474693	15.05	2219945	20.57	761071 *	23.37
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22						

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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

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

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0148

EPA SAMPLE NO.

SBLK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NFESC

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: N2C41844

Matrix: (soil/water) SOIL Lab Sample ID: N2C41844C

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B5298

Level: (low/med) LOW Date Received: 12/09/94

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/12/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/22/94

Injection Volume: 2.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	330	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	330	U
83-32-9	Acenaphthene	330	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NFESC

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: N2C41844

Matrix: (soil/water) SOIL Lab Sample ID: N2C41844C

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B5298

Level: (low/med) LOW Date Received: 12/09/94

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/12/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/22/94

Injection Volume: 2.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	330	U
534-52-1	4,6-Dinitro-2-methylphenol	830	U
101-55-3	4-Bromophenyl-phenylether	330	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	330	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-2	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	33	J
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenz(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) Cannot be separated from Diphenylamine

1F - 0150 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SBLK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NFESC

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: N2C41844

Matrix: (soil/water) SOIL Lab Sample ID: N2C41844C

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B5298

Level: (low/med) LOW Date Received: 12/09/94

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/12/94

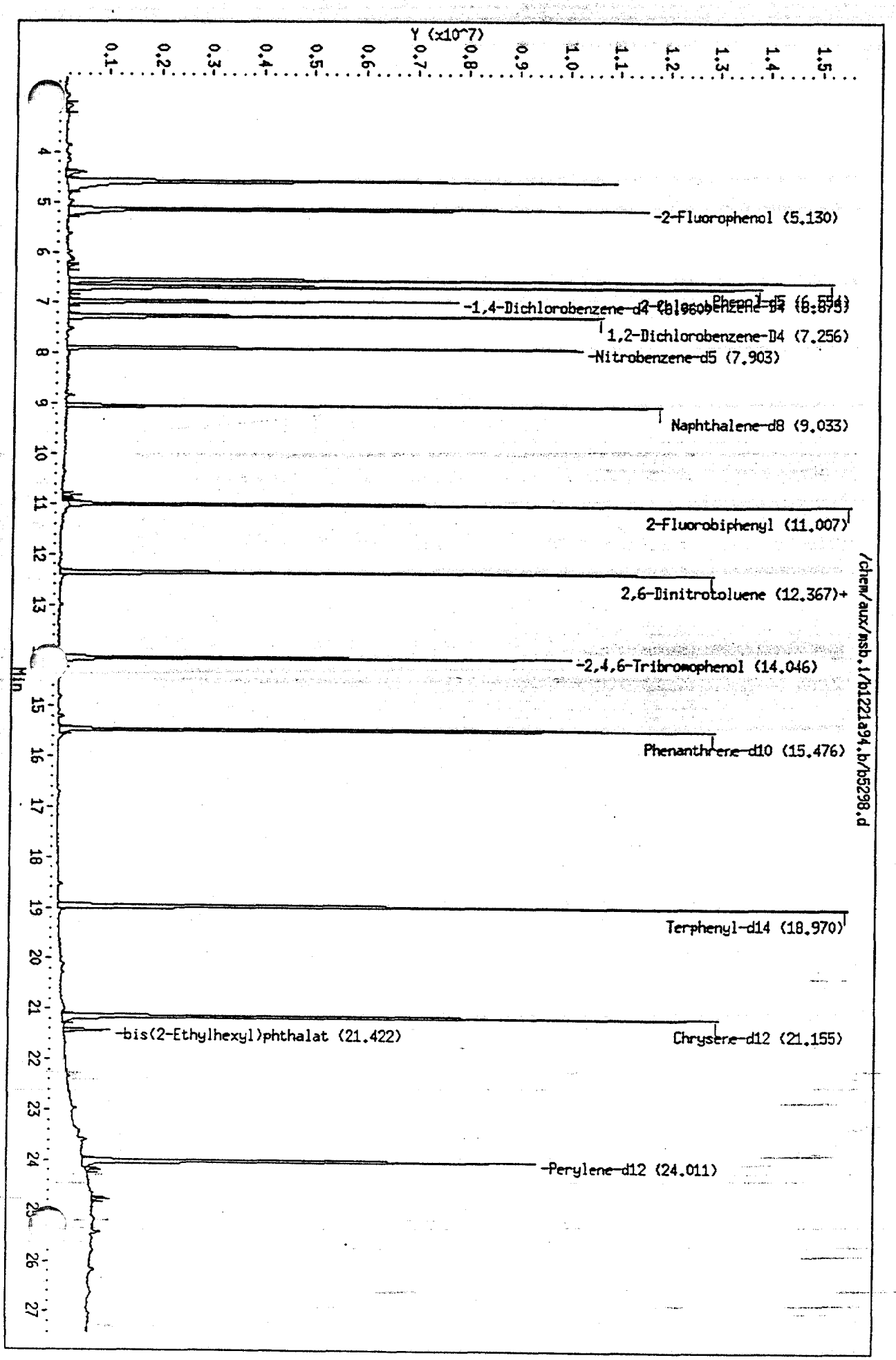
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/22/94

Injection Volume: 2.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-Pentanone, 4-hydroxy-4-met	4.58	1200	JNA



Data File: /chem/aux/msb.1/b1221a94.b/b5298.d
Date : 22-DEC-94 04:46
Instrument : msb.1
Sample ID : sblk01
Column phase : J&W DB-5
Volume Injected (uL) : 2.0

Column diameter : 0.25

Data File: /chem/aux/msb.i/b1221a94.b/b5298.d
Report Date: 22-Dec-1994 10:49

Analytical Services Corp.

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/aux/msb.i/b1221a94.b/b5298.d
Lab. Id. :
Inj Date : 22-DEC-94 04:46
Operator : Tom
Smp Info : method blank
Misc Info : n2c41844c,n2c41844,m1,2,1
Comment :
Method : /chem/aux/msb.i/b1221a94.b/bnaclpb.m
Meth Date : 21-Dec-1994 23:31
Cal Date : 21-DEC-94 23:00
Als bottle: 11
Dil Factor: 1.000
Integrator: HP RTE
Sample Matrix: WATER

Quant Type: ISTD
Autotune Date: {
Inst ID: msb.i

Cal File: b5289.d

Target Version: Target 3.00
Compound Sublist: all.sub

	Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
$	2-Fluorophenol	112.00	5.141	(0.739)	6617187	101	50.4
$	4 Phenol-d5	99.00	6.554	(0.942)	9340477	110	55.2
$	7 2-Chlorobenzene-D4	132.00	6.675	(0.959)	7255590	101	50.5(AR)
*	10 1,4-Dichlorobenzene-d4	152.00	6.960	(1.000)	2617183	40.0	
$	12 1,2-Dichlorobenzene-D4	152.00	7.256	(1.043)	3516037	72.8	36.4(AR)
$	19 Nitrobenzene-d5	82.00	7.903	(0.875)	5921348	77.2	38.6
*	27 Naphthalene-d8	136.00	9.033	(1.000)	9338910	40.0	
$	37 2-Fluorobiphenyl	172.00	11.007	(0.890)	10288072	72.9	36.4
	41 2,6-Dinitrotoluene	165.00	12.367	(1.000)	815975	18.7	9.37(aQ)
*	44 Acenaphthene-d10	164.00	12.367	(1.000)	5944997	40.0	
$	56 2,4,6-Tribromophenol	330.00	14.046	(1.136)	2547874	98.6	49.3
*	60 Phenanthrene-d10	188.00	15.476	(1.000)	10602389	40.0	
$	68 Terphenyl-d14	244.00	18.970	(0.897)	13896037	78.0	39.0
*	71 Chrysene-d12	240.00	21.155	(1.000)	10169945	40.0	
	74 bis(2-Ethylhexyl)phthalate	149.00	21.422	(1.013)	482885	2.01	1.00(a)
*	79 Perylene-d12	264.00	24.011	(1.000)	6008135	40.0	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: /chem/aux/msb.i/b1221a94.b/b5298.d

Date : 22-DEC-94 04:46

Instrument : msb.i

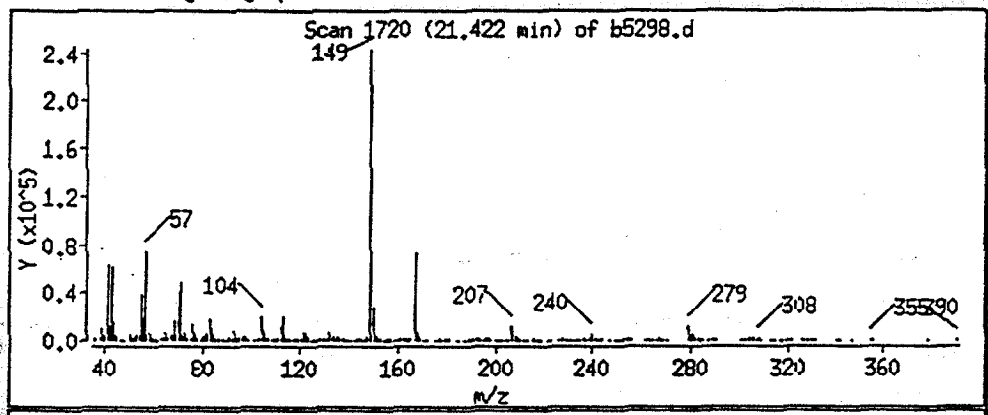
Sample ID : sblk01

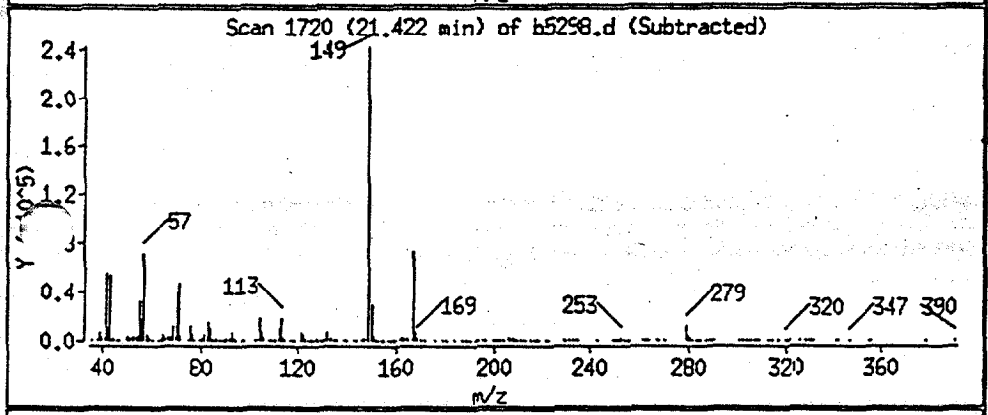
Column phase : J&W DB-5

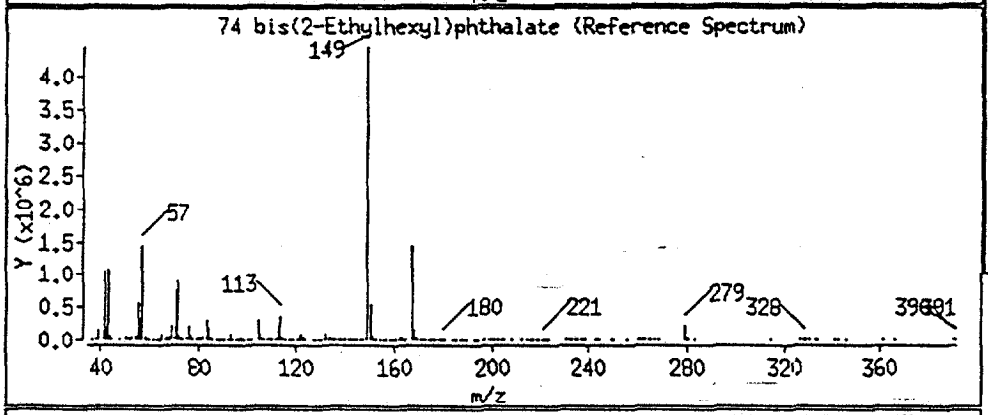
Column diameter : 0.25

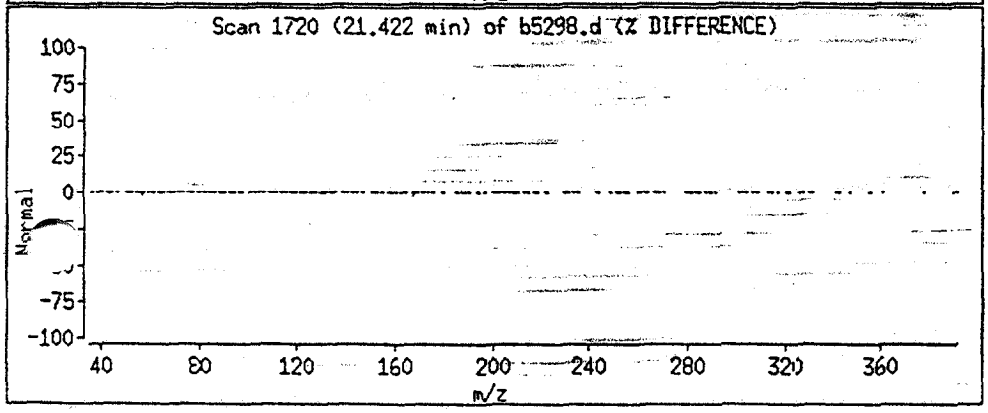
Volume Injected (uL) : 2.0

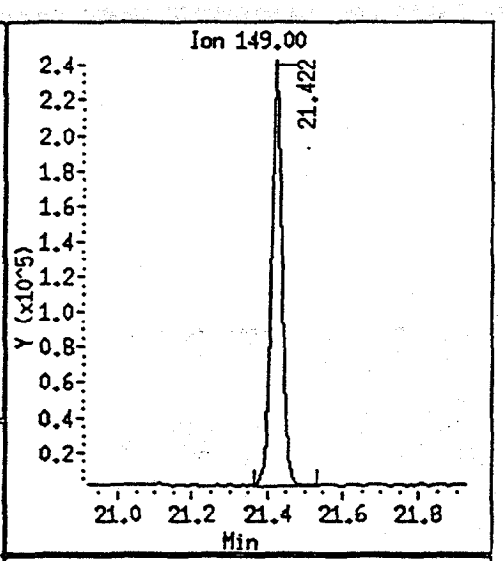
74 bis(2-Ethylhexyl)phthalate

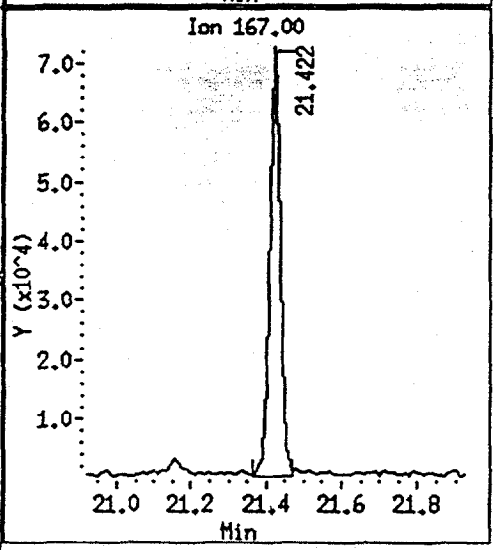






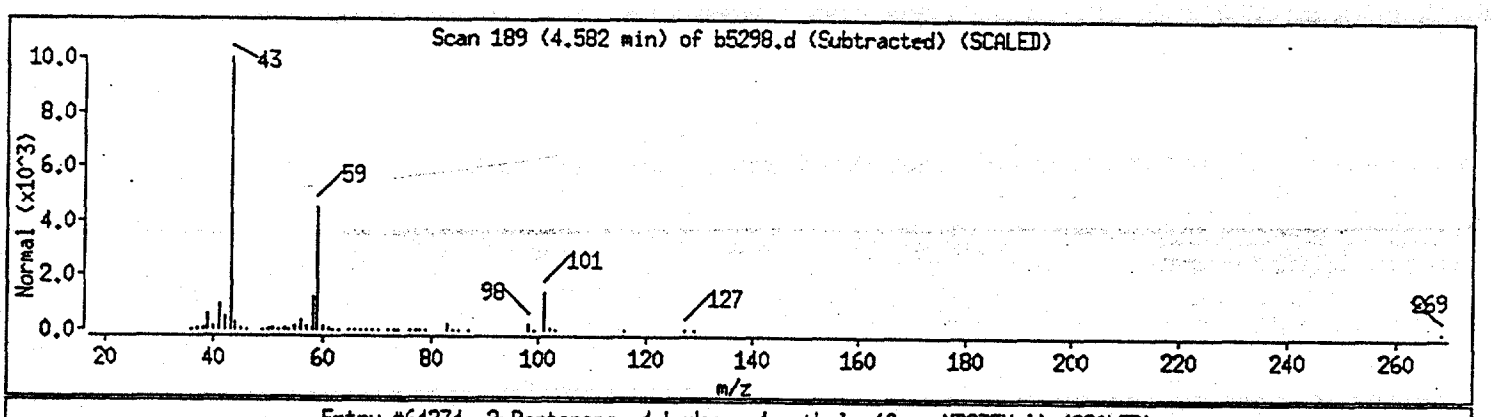


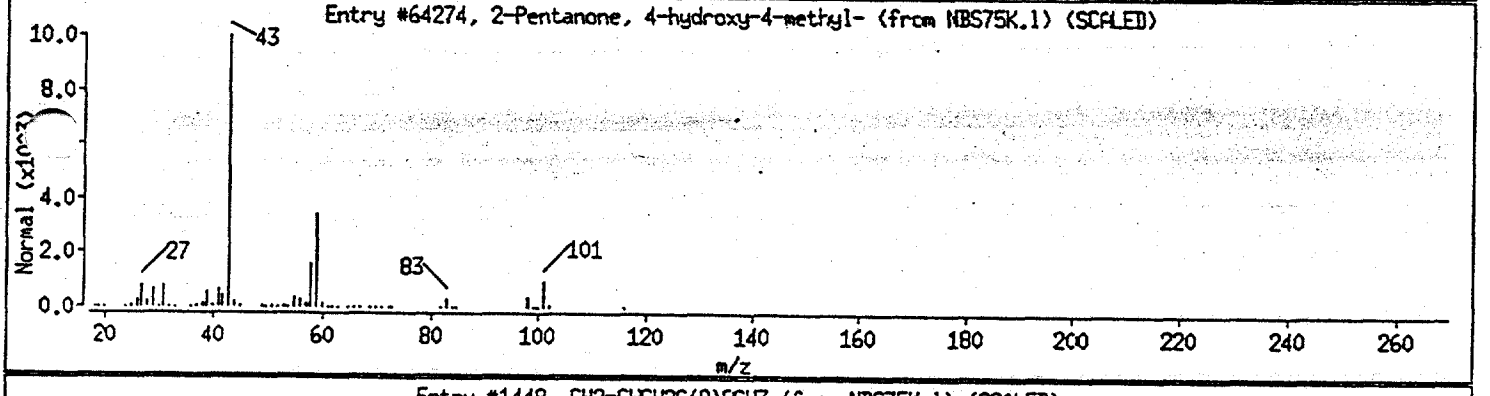


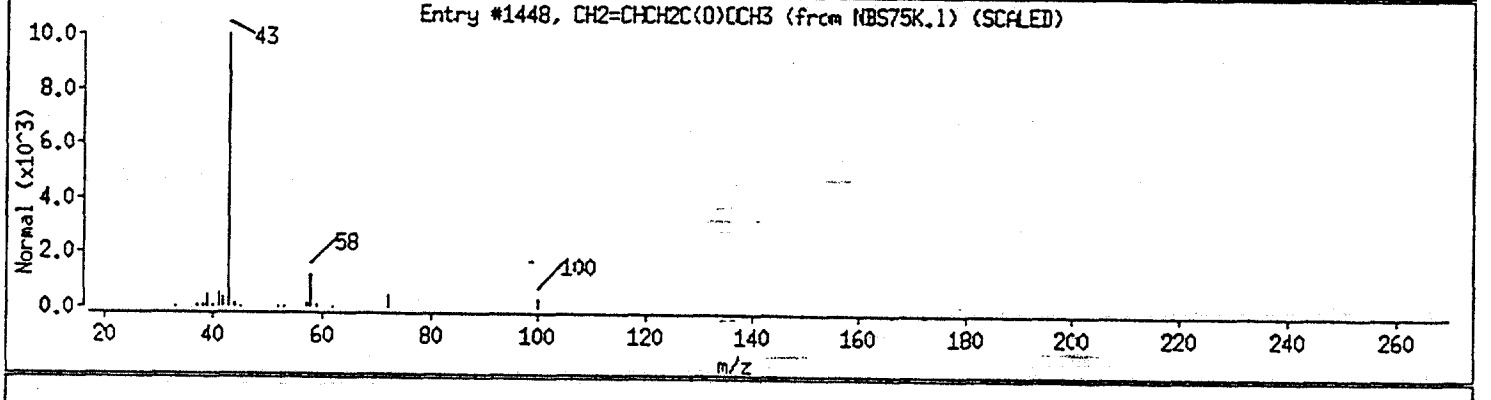


Data File: /chem/aux/msb.i/b1221a94.b/b5298.d
Date : 22-DEC-94 04:46
Instrument : msb.i
Sample ID : sblk01
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NBS75K.1	64274	50
CH2=CHCH2C(O)OCH3	3724-55-8	NBS75K.1	1448	12







1B - 0155 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

AO1SS-104

Lab Name: ANALYTICAL SERVICES CORP. Contract: NFESC

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: N2C41844

Matrix: (soil/water) SOIL Lab Sample ID: JN6035C

Sample wt/vol: 21.8 (g/mL) G Lab File ID: B5369

Level: (low/med) LOW Date Received: 12/09/94

% Moisture: 28 decanted: (Y/N) Date Extracted: 12/12/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/30/94

Injection Volume: 2.00 (uL) Dilution Factor: ~~1.0~~ 5.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2300	U
111-44-4	bis(2-Chloroethyl)ether	2300	U
95-57-8	2-Chlorophenol	2300	U
541-73-1	1,3-Dichlorobenzene	2300	U
106-46-7	1,4-Dichlorobenzene	2300	U
95-50-1	1,2-Dichlorobenzene	2300	U
95-48-7	2-Methylphenol	2300	U
108-60-1	2,2'-oxybis(1-Chloropropane)	2300	U
106-44-5	4-Methylphenol	2300	U
621-64-7	N-Nitroso-di-n-propylamine	2300	U
67-72-1	Hexachloroethane	2300	U
98-95-3	Nitrobenzene	2300	U
78-59-1	Isophorone	2300	U
88-75-5	2-Nitrophenol	2300	U
105-67-9	2,4-Dimethylphenol	2300	U
111-91-1	bis(2-Chloroethoxy)methane	2300	U
120-83-2	2,4-Dichlorophenol	2300	U
120-82-1	1,2,4-Trichlorobenzene	2300	U
91-20-3	Naphthalene	2300	U
106-47-8	4-Chloroaniline	2300	U
87-68-3	Hexachlorobutadiene	2300	U
59-50-7	4-Chloro-3-methylphenol	2300	U
91-57-6	2-Methylnaphthalene	2300	U
77-47-4	Hexachlorocyclopentadiene	2300	U
88-06-2	2,4,6-Trichlorophenol	2300	U
95-95-4	2,4,5-Trichlorophenol	2300	U
91-58-7	2-Chloronaphthalene	2300	U
88-74-4	2-Nitroaniline	2300	U
131-11-3	Dimethylphthalate	2300	U
208-96-8	Acenaphthylene	2300	U
606-20-2	2,6-Dinitrotoluene	730	J
99-09-2	3-Nitroaniline	2300	U
83-32-9	Acenaphthene	2300	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

- 0156 EPA SAMPLE NO.

AO1SS-104

Lab Name: ANALYTICAL SERVICES CORP. Contract: NFESC

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: N2C41844

Matrix: (soil/water) SOIL Lab Sample ID: JN6035C

Sample wt/vol: 21.8 (g/mL) G Lab File ID: B5369

Level: (low/med) LOW Date Received: 12/09/94

% Moisture: 28 decanted: (Y/N) Date Extracted: 12/12/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/30/94

Injection Volume: 2.00 (uL) Dilution Factor: ~~1.0~~ 5.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	11000	U
100-02-7	4-Nitrophenol	11000	U
132-64-9	Dibenzofuran	2300	U
121-14-2	2,4-Dinitrotoluene	22000	
84-66-2	Diethylphthalate	2300	U
7005-72-3	4-Chlorophenyl-phenylether	2300	U
86-73-7	Fluorene	2300	U
100-01-6	4-Nitroaniline	2300	U
534-52-1	4,6-Dinitro-2-methylphenol	5700	U
101-55-3	4-Bromophenyl-phenylether	2300	U
86-30-6	N-Nitrosodiphenylamine (1)	2300	U
118-74-1	Hexachlorobenzene	2300	U
87-86-5	Pentachlorophenol	2300	U
85-01-8	Phenanthrene	910	J
120-12-7	Anthracene	310	J
86-74-8	Carbazole	2300	U
84-74-2	Di-n-butylphthalate	2300	U
206-44-0	Fluoranthene	1800	J
129-00-0	Pyrene	2800	
85-68-2	Butylbenzylphthalate	2300	U
91-94-1	3,3'-Dichlorobenzidine	2300	U
56-55-3	Benzo(a)anthracene	1100	J
218-01-9	Chrysene	1400	J
117-81-7	bis(2-Ethylhexyl)phthalate	2300	U
117-84-0	Di-n-octylphthalate	2300	U
205-99-2	Benzo(b)fluoranthene	1200	J
207-08-9	Benzo(k)fluoranthene	1600	J
50-32-8	Benzo(a)pyrene	880	J
193-39-5	Indeno(1,2,3-cd)pyrene	300	J
53-70-3	Dibenz(a,h)anthracene	2300	U
191-24-2	Benzo(g,h,i)perylene	290	J

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0157 EPA SAMPLE NO.

AO1SS-104

Lab Name: ANALYTICAL SERVICES CORP. Contract: NFESC

Lab Code: _____ Case No.: 15226N SAS No.: _____ SDG No.: N2C41844

Matrix: (soil/water) SOIL Lab Sample ID: JN6035C

Sample wt/vol: 21.8 (g/mL) G Lab File ID: B5369

Level: (low/med) LOW Date Received: 12/09/94

% Moisture: 28 decanted: (Y/N) ___ Date Extracted: 12/12/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/30/94

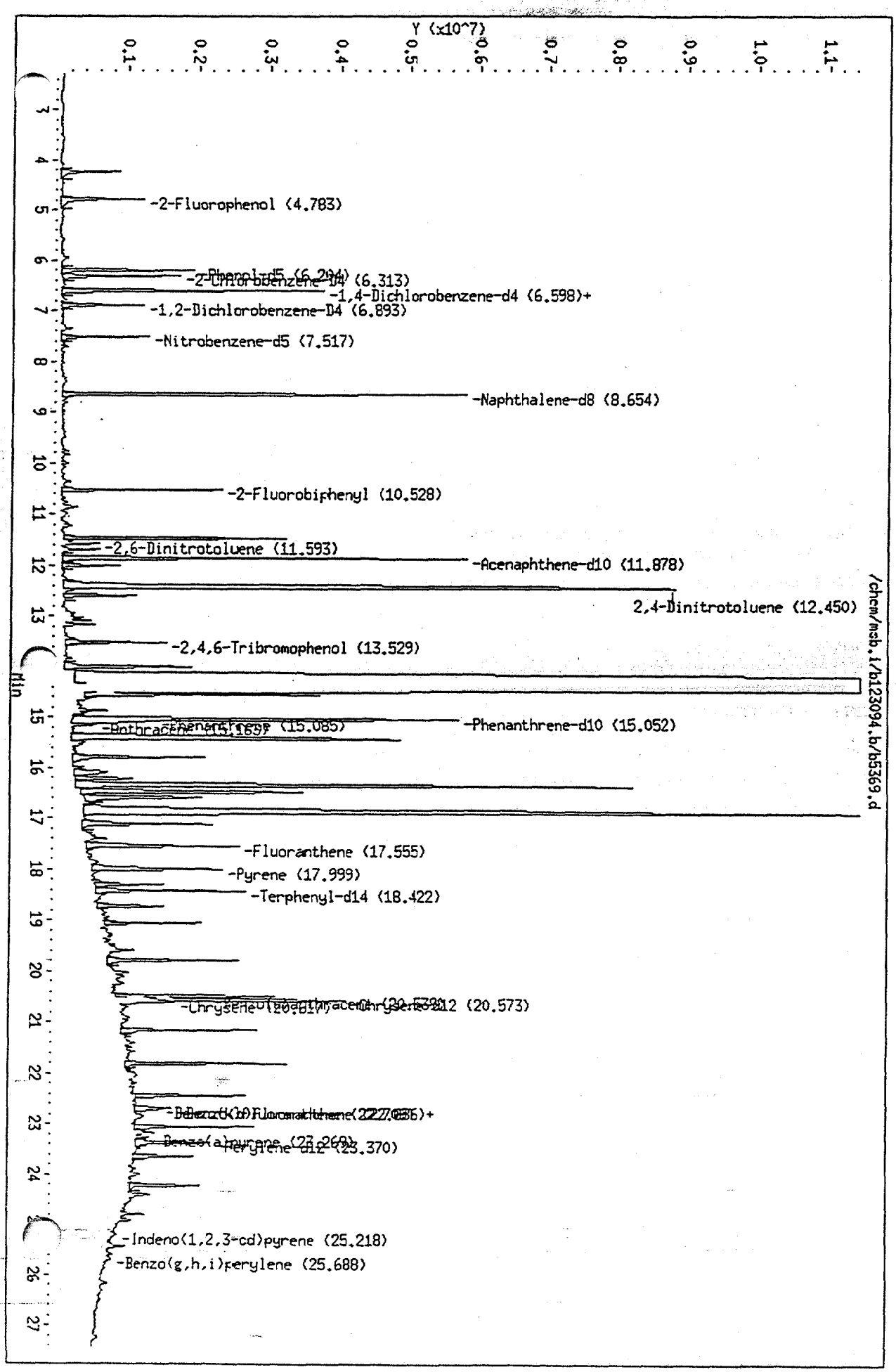
Injection Volume: 2.00 (uL) Dilution Factor: 1.0 5.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 22 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	123-42-2	2-Pentanone, 4-hydroxy-4-met	4.24	830	JNA
2.	99-65-0	Benzene, 1,3-dinitro-	11.48	1700	JN
3.	118-96-7	Benzene, 2-methyl-1,3,5-trin	14.31	27000	JN
4.		unknown	14.57	1300	J
5.		unknown	15.44	3700	J
6.		unknown	15.79	930	J
7.		unknown	16.37	4900	J
8.	618-87-1	Benzenamine, 3,5-dinitro-	16.48	1700	JN
9.		unknown	16.60	980	J
10.	35572-78-2	Benzenamine, 2-methyl-3,5-di	16.91	10000	JN
11.		unknown	17.12	920	J
12.	629-97-0	Docosane	18.30	1100	JN
13.		unknown	18.73	1200	J
14.	55045-08-4	Dodecane, 2-methyl-6-propyl-	19.06	1300	JN
15.	112-95-8	Eicosane	19.79	2000	JN
16.	544-76-3	Hexadecane	20.49	2500	JN
17.	630-01-3	Hexacosane	21.17	2000	JN
18.	55282-14-9	Docosane, 9-butyl-	21.81	2400	JN
19.	13475-76-8	Docosane, 11-butyl-	22.44	3400	JN
20.	629-78-7	Heptadecane	23.06	4300	JN
21.	593-45-3	Octadecane	23.64	2300	JN
22.	629-94-7	Heneicosane	24.22	2600	JN

Data File: /chem/msb.1/b123094.b/b5369.d
Date : 30-DEC-94 16:24
Instrument : msb.1
Sample ID : a01ss-104
Column phase : J&W DB-5
Volume Injected (uL) : 2.0



Column diameter : 0.25

Data File: /chem/msb.i/b123094.b/b5369.d
Report Date: 31-Dec-1994 10:04

Analytical Services Corp.

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/msb.i/b123094.b/b5369.d
Lab. Id. :
Quant Type: ISTD
Inj Date : 30-DEC-94 16:24
Autotune Date: {
Operator : Tom
Inst ID: msb.i
Smp Info : 15629n a01ss-104
Misc Info : jn6035c,n2c41844,m1,2,1
Comment :
Method : /chem/msb.i/b123094.b/bnaclpb.m
Meth Date : 30-Dec-1994 07:41
Cal Date : 30-DEC-94 07:04
Cal File: b5355.d
Als bottle: 16
Dil Factor: 1.000
Target Version: Target 3.00
Integrator: HP RTE
Compound Sublist: all.sub
Sample Matrix: WATER

JC 12-31-94

Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
$ 2-Fluorophenol	112.00	4.783	(0.725)	713459	24.4	12.2(R)
$ 4 Phenol-d5	99.00	6.204	(0.940)	1100266	28.3	14.2
$ 7 2-Chlorobenzene-D4	132.00	6.313	(0.957)	843913	26.8	13.4(A)
* 10 1,4-Dichlorobenzene-d4	152.00	6.598	(1.000)	1238949	40.0	
$ 12 1,2-Dichlorobenzene-D4	152.00	6.893	(1.045)	345425	13.9	6.97(aAQH)
$ 19 Nitrobenzene-d5	82.00	7.517	(0.869)	633648	17.9	8.94(aR)
* 27 Naphthalene-d8	136.00	8.654	(1.000)	4139576	40.0	
$ 37 2-Fluorobiphenyl	172.00	10.528	(0.886)	1317761	20.2	10.1(R)
41 2,6-Dinitrotoluene	165.00	11.593	(0.976)	133993	6.39	3.20(a)
* 44 Acenaphthene-d10	164.00	11.878	(1.000)	2699398	40.0	
49 2,4-Dinitrotoluene	165.00	12.450	(1.048)	5695770	193	96.4(A)
$ 56 2,4,6-Tribromophenol	330.00	13.529	(1.139)	285126	21.6	10.8
* 60 Phenanthrene-d10	188.00	15.052	(1.000)	4474693	40.0	
61 Phenanthrene	178.00	15.085	(1.002)	760519	7.96	3.98(a)
62 Anthracene	178.00	15.163	(1.007)	258209	2.70	1.35(a)
65 Fluoranthene	202.00	17.555	(1.166)	1767922	15.9	7.95(a)
67 Pyrene	202.00	17.999	(0.875)	1531772	24.1	12.0
$ 68 Terphenyl-d14	244.00	18.422	(0.895)	1379423	31.2	15.6(R)
70 Benzo(a)anthracene	228.00	20.539	(0.998)	512428	9.51	4.76(a)
* 71 Chrysene-d12	240.00	20.573	(1.000)	2219945	40.0	
73 Chrysene	228.00	20.617	(1.002)	572943	12.4	6.18(a)
76 Benzo(b)fluoranthene	252.00	22.686	(0.971)	284293	10.5	5.24(a)
77 Benzo(k)fluoranthene	252.00	22.709	(0.971)	275148	13.9	6.97(aM)
78 Benzo(a)pyrene	252.00	23.269	(0.996)	158113	7.70	3.85(a)
* 79 Perylene-d12	264.00	23.370	(1.000)	761071	40.0	
ndeno(1,2,3-cd)pyrene	276.00	25.218	(1.079)	55598	2.59	1.30(a)
Benzo(g,h,i)perylene	276.00	25.688	(1.099)	42531	2.50	1.25(a)

Data File: /chem/msb.i/b123094.b/b5369.d
Report Date: 31-Dec-1994 10:04

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0161 EPA SAMPLE NO.

AO1SS-104MS

Lab Name: ANALYTICAL SERVICES CORP. Contract: NFESC

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: N2C41844

Matrix: (soil/water) SOIL Lab Sample ID: JN6035CS

Sample wt/vol: 21.9 (g/mL) G Lab File ID: B5361

Level: (low/med) LOW Date Received: 12/09/94

% Moisture: 28 decanted: (Y/N) N Date Extracted: 12/12/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/30/94

Injection Volume: 2.00 (uL) Dilution Factor: ~~1~~ 50

GPC Cleanup: (Y/N) N pH: 7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3100	
111-44-4	bis(2-Chloroethyl)ether	2100	J
95-57-8	2-Chlorophenol	3200	
541-73-1	1,3-Dichlorobenzene	1600	J
106-46-7	1,4-Dichlorobenzene	1900	J
95-50-1	1,2-Dichlorobenzene	1900	J
95-48-7	2-Methylphenol	2100	J
108-60-1	2,2'-oxybis(1-Chloropropane)	1800	J
106-44-5	4-Methylphenol	2400	
621-64-7	N-Nitroso-di-n-propylamine	2200	J
67-72-1	Hexachloroethane	1900	J
98-95-3	Nitrobenzene	2100	J
78-59-1	Isophorone	2100	J
88-75-5	2-Nitrophenol	3200	
105-67-9	2,4-Dimethylphenol	3100	
111-91-1	bis(2-Chloroethoxy)methane	2300	
120-83-2	2,4-Dichlorophenol	3600	
120-82-1	1,2,4-Trichlorobenzene	2100	J
91-20-3	Naphthalene	2300	
106-47-8	4-Chloroaniline	1300	J
87-68-3	Hexachlorobutadiene	2000	J
59-50-7	4-Chloro-3-methylphenol	3500	
91-57-6	2-Methylnaphthalene	2400	
77-47-4	Hexachlorocyclopentadiene	2300	U
88-06-2	2,4,6-Trichlorophenol	3500	
95-95-4	2,4,5-Trichlorophenol	2300	
91-58-7	2-Chloronaphthalene	2300	
88-74-4	2-Nitroaniline	2500	
131-11-3	Dimethylphthalate	2400	
208-96-8	Acenaphthylene	2500	
606-20-2	2,6-Dinitrotoluene	3000	
99-09-2	3-Nitroaniline	1700	J
83-32-9	Acenaphthene	2400	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0162 EPA SAMPLE NO.

AO1SS-104MS

Lab Name: ANALYTICAL SERVICES CORP. Contract: NFESC

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: N2C41844

Matrix: (soil/water) SOIL Lab Sample ID: JN6035CS

Sample wt/vol: 21.9 (g/mL) G Lab File ID: B5361

Level: (low/med) LOW Date Received: 12/09/94

% Moisture: 28 decanted: (Y/N) N Date Extracted: 12/12/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/30/94

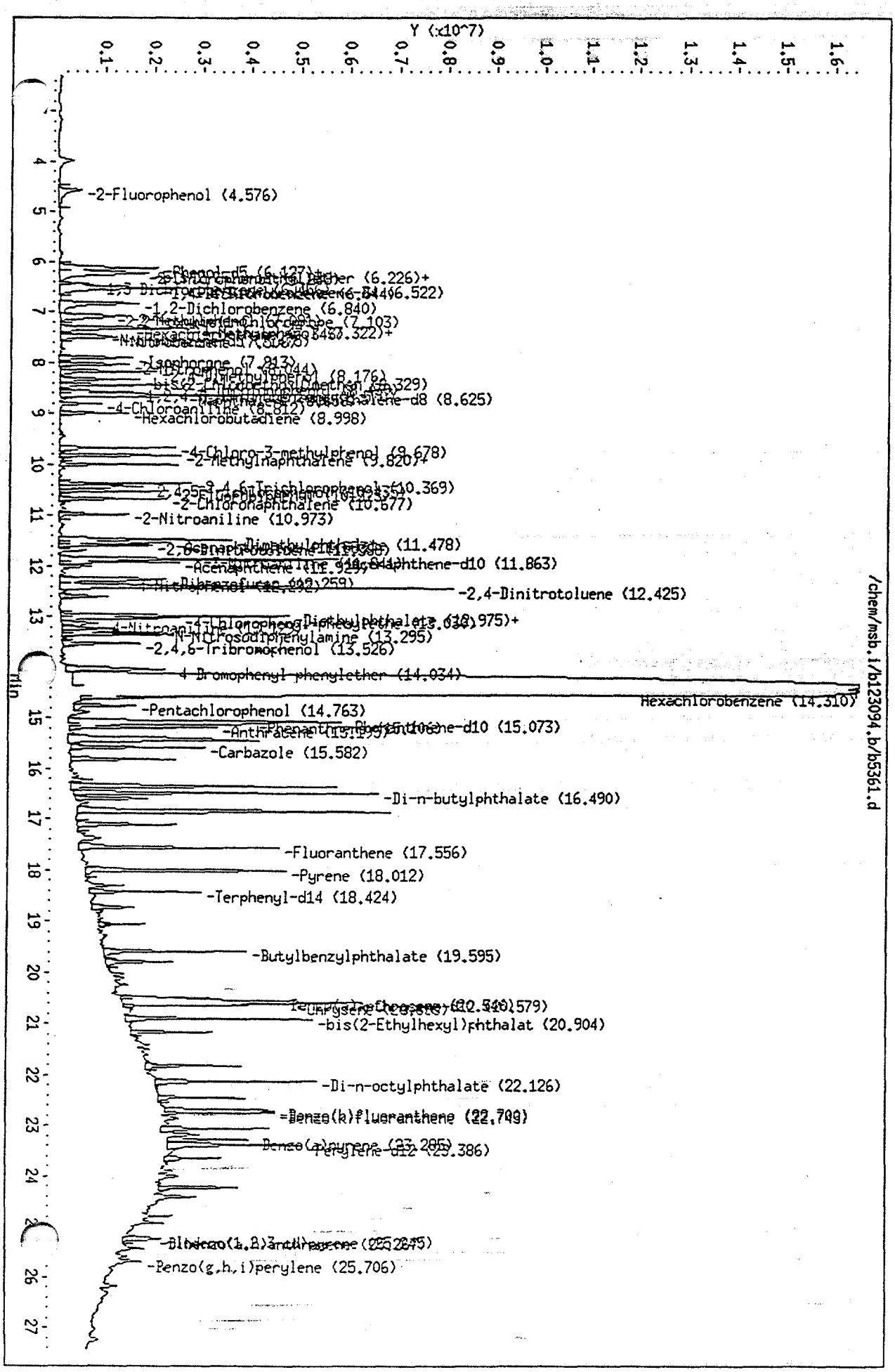
Injection Volume: 2.00 (uL) Dilution Factor: ~~1.0~~ 5.0

GPC Cleanup: (Y/N) N pH: 7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	11000	U
100-02-7	4-Nitrophenol	3500	J
132-64-9	Dibenzofuran	2400	
121-14-2	2,4-Dinitrotoluene	20000	
84-66-2	Diethylphthalate	2500	
7005-72-3	4-Chlorophenyl-phenylether	2400	
86-73-7	Fluorene	2500	
100-01-6	4-Nitroaniline	1800	J
534-52-1	4,6-Dinitro-2-methylphenol	260	J
101-55-3	4-Bromophenyl-phenylether	2500	
86-30-6	N-Nitrosodiphenylamine (1)	2600	
118-74-1	Hexachlorobenzene	1300	J
87-86-5	Pentachlorophenol	3600	
85-01-8	Phenanthrene	3200	
120-12-7	Anthracene	2800	
86-74-8	Carbazole	2600	
84-74-2	Di-n-butylphthalate	2400	
206-44-0	Fluoranthene	3700	
129-00-0	Pyrene	4000	
85-68-2	Butylbenzylphthalate	2700	
91-94-1	3,3'-Dichlorobenzidine	2300	U
56-55-3	Benzo(a)anthracene	3100	
218-01-9	Chrysene	3600	
117-81-7	bis(2-Ethylhexyl)phthalate	2700	B
117-84-0	Di-n-octylphthalate	3700	
205-99-2	Benzo(b)fluoranthene	3400	
207-08-9	Benzo(k)fluoranthene	3900	
50-32-8	Benzo(a)pyrene	2700	
193-39-5	Indeno(1,2,3-cd)pyrene	1300	J
53-70-3	Dibenz(a,h)anthracene	1200	J
191-24-2	Benzo(g,h,i)perylene	1100	J

(1) - Cannot be separated from Diphenylamine

Data File: /chem/msb.i/b123094.b/b5361.d
Date : 30-DEC-94 10:55
Instrument : msb.i
Sample ID : a01ss-104 ms
Column phase : J&W DB-5
Volume Injected (uL) : 2.0



Column diameter : 0.25

Data File: /chem/msb.i/b123094.b/b5361.d
Report Date: 30-Dec-1994 11:31

Analytical Services Corp.

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/msb.i/b123094.b/b5361.d
Lab. Id. :
Quant Type: ISTD
Inj Date : 30-DEC-94 10:55
Autotune Date: {
Operator : Tom
Inst ID: msb.i
Smp Info : 15629n a01ss-104 ms
Misc Info : jn6035cs,n2c41844,m1,2,1
Comment :
Method : /chem/msb.i/b123094.b/bnaclpb.m
Meth Date : 30-Dec-1994 07:41
Cal Date : 30-DEC-94 07:04
Cal File: b5355.d
Als bottle: 8
Dil Factor: 1.000
Target Version: Target 3.00
Integrator: HP RTE
Compound Sublist: all.sub
Sample Matrix: WATER

12-30-94

		Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
$		2-Fluorophenol	112.00	4.576	(0.702)	627684	23.5	11.7(R)
$		Phenol-d5	99.00	6.116	(0.938)	988041	27.8	13.9
	5	Phenol	94.00	6.138	(0.941)	1115945	27.4	13.7
	6	bis(2-Chloroethyl)ether	93.00	6.215	(0.953)	557122	18.5	9.24(a)
$	7	2-Chlorobenzene-D4	132.00	6.226	(0.955)	761988	26.5	13.2(A)
	8	2-Chlorophenol	128.00	6.248	(0.958)	827182	27.8	13.9
	9	1,3-Dichlorobenzene	146.00	6.456	(0.990)	468044	13.8	6.88(a)
*	10	1,4-Dichlorobenzene-d4	152.00	6.522	(1.000)	1131330	40.0	
	11	1,4-Dichlorobenzene	146.00	6.544	(1.003)	570314	16.4	8.22(a)
$	12	1,2-Dichlorobenzene-D4	152.00	6.522	(1.000)	1131330	50.0	25.0(A)
	13	1,2-Dichlorobenzene	146.00	6.851	(1.050)	540964	16.8	8.42(a)
	14	2-Methylphenol	108.00	7.070	(1.084)	549047	18.6	9.31(a)
	15	2,2'-oxybis(1-Chloropropene)	45.00	7.103	(1.089)	945758	16.2	8.10(a)
	16	4-Methylphenol	108.00	7.322	(1.123)	591410	20.6	10.3
	17	N-Nitroso-di-n-propylamine	70.00	7.322	(1.123)	480599	19.4	9.70(a)
	18	Hexachloroethane	117.00	7.343	(1.126)	256246	16.6	8.31(a)
$	19	Nitrobenzene-d5	82.00	7.475	(0.867)	568672	17.0	8.52(aR)
	20	Nitrobenzene	77.00	7.508	(0.870)	622694	18.5	9.26(a)
	21	Isophorone	82.00	7.913	(0.917)	1264226	18.5	9.27(a)
	22	2-Nitrophenol	139.00	8.044	(0.933)	525130	27.5	13.8
	23	2,4-Dimethylphenol	107.00	8.176	(0.948)	824214	26.9	13.5
	24	bis(2-Chloroethoxy)methane	93.00	8.329	(0.966)	820703	20.1	10.1
	25	2,4-Dichlorophenol	162.00	8.450	(0.980)	842115	31.9	15.9
	26	1,2,4-Trichlorobenzene	180.00	8.570	(0.994)	541414	18.0	9.03(a)
*	27	Naphthalene-d8	136.00	8.625	(1.000)	3897979	40.0	
		Naphthalene	128.00	8.658	(1.004)	1620503	20.4	10.2
		-Chloroaniline	127.00	8.812	(1.022)	420433	11.6	5.78(a)
	30	Hexachlorobutadiene	225.00	8.998	(1.043)	283025	17.6	8.78(a)
	31	4-Chloro-3-methylphenol	107.00	9.678	(1.122)	935785	30.4	15.2

Data File: /chem/msb.i/b123094.b/b5361.d
Report Date: 30-Dec-1994 11:31

	Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
	32 2-Methylnaphthalene	142.00	9.820	(1.139)	1164340	21.2	10.6
	33 1-Methylnaphthalene	142.00	9.820	(1.506)	1164340	21.8	10.9(A)
	35 2,4,6-Trichlorophenol	196.00	10.369	(0.874)	676356	30.4	15.2
	36 2,4,5-Trichlorophenol	196.00	10.435	(0.880)	514341	20.4	10.2(a)
$	37 2-Fluorobiphenyl	172.00	10.523	(0.887)	1185874	19.4	9.71(aR)
	38 2-Chloronaphthalene	162.00	10.677	(0.900)	1170323	20.4	10.2
	39 2-Nitroaniline	65.00	10.973	(0.925)	530164	22.1	11.1(a)
	40 Dimethylphthalate	163.00	11.478	(0.968)	1495153	20.6	10.3
	41 2,6-Dinitrotoluene	165.00	11.599	(0.978)	518066	26.4	13.2
	42 Acenaphthylene	152.00	11.533	(0.972)	1964895	22.0	11.0
	43 3-Nitroaniline	138.00	11.841	(0.998)	282011	14.7	7.36(a)
*	44 Acenaphthene-d10	164.00	11.863	(1.000)	2521286	40.0	
	45 Acenaphthene	153.00	11.929	(1.006)	1212060	20.7	10.3
	47 4-Nitrophenol	109.00	12.292	(1.036)	272477	30.9	15.4(aQ)
	48 Dibenzofuran	168.00	12.259	(1.033)	1704577	21.1	10.5
	49 2,4-Dinitrotoluene	165.00	12.436	(1.048)	4784386	173	86.7(A)
	50 Diethylphthalate	149.00	12.986	(1.095)	1576389	21.6	10.8
	51 4-Chlorophenyl-phenylether	204.00	13.030	(1.098)	757415	21.1	10.6
	52 Fluorene	166.00	12.975	(1.094)	1392486	22.0	11.0
	53 4-Nitroaniline	138.00	13.129	(1.107)	358910	15.4	7.68(a)
	4,6-Dinitro-2-methylphenol	198.00	12.986	(0.862)	33891	2.33	1.16(aQ)
	N-Nitrosodiphenylamine	169.00	13.306	(0.883)	1009773	22.9	11.4
$	56 2,4,6-Tribromophenol	330.00	13.526	(1.140)	328786	26.7	13.4
	57 4-Bromophenyl-phenylether	248.00	14.045	(0.932)	468137	21.7	10.8
	58 Hexachlorobenzene	284.00	14.310	(0.949)	335121	11.7	5.87(a)
	59 Pentachlorophenol	266.00	14.763	(0.979)	285652	31.6	15.8(a)
*	60 Phenanthrene-d10	188.00	15.073	(1.000)	4542037	40.0	
	61 Phenanthrene	178.00	15.106	(1.002)	2752598	28.4	14.2
	62 Anthracene	178.00	15.195	(1.008)	2394323	24.7	12.4
	63 Carbazole	167.00	15.582	(1.034)	2075656	22.5	11.2
	64 Di-n-butylphthalate	149.00	16.490	(1.094)	2987255	21.0	10.5
	65 Fluoranthene	202.00	17.567	(1.165)	3684592	32.6	16.3
	67 Pyrene	202.00	18.012	(0.875)	3670374	35.4	17.7
$	68 Terphenyl-d14	244.00	18.424	(0.895)	1457326	20.2	10.1(R)
	69 Butylbenzylphthalate	149.00	19.595	(0.952)	1458730	23.4	11.7
	70 Benzo(a)anthracene	228.00	20.546	(0.998)	2401153	27.3	13.6
*	71 Chrysene-d12	240.00	20.579	(1.000)	3624394	40.0	
	73 Chrysene	228.00	20.635	(1.003)	2397200	31.7	15.8
	74 bis(2-Ethylhexyl)phthalate	149.00	20.904	(1.016)	2141291	23.8	11.9
	75 Di-n-octylphthalate	149.00	22.126	(0.946)	3451252	32.3	16.1
	76 Benzo(b)fluoranthene	252.00	22.700	(0.971)	2290224	29.9	14.9
	77 Benzo(k)fluoranthene	252.00	22.745	(0.973)	1929746	34.6	17.3
	78 Benzo(a)pyrene	252.00	23.273	(0.995)	1381892	23.8	11.9
*	79 Perylene-d12	264.00	23.386	(1.000)	2149834	40.0	
	80 Indeno(1,2,3-cd)pyrene	276.00	25.233	(1.079)	672776	11.1	5.56(a)
	Dibenzo(a,h)anthracene	278.00	25.267	(1.080)	515047	10.6	5.32(a)
	Benzo(g,h,i)perylene	276.00	25.706	(1.099)	475403	9.89	4.95(a)

Data File: /chem/msb.i/b123094.b/b5361.d
Report Date: 30-Dec-1994 11:31

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0167 EPA SAMPLE NO.

AO1SS-104MSD

Lab Name: ANALYTICAL SERVICES CORP. Contract: NFESC

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: N2C41844

Matrix: (soil/water) SOIL Lab Sample ID: JN6035CR

Sample wt/vol: 21.7 (g/mL) G Lab File ID: B5362

Level: (low/med) LOW Date Received: 12/09/94

% Moisture: 28 decanted: (Y/N) N Date Extracted: 12/12/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/30/94

Injection Volume: 2.00 (uL) Dilution Factor: ~~1.0~~ 5.0

GPC Cleanup: (Y/N) N pH: 7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3100	
111-44-4	bis(2-Chloroethyl)ether	2100	J
95-57-8	2-Chlorophenol	3200	
541-73-1	1,3-Dichlorobenzene	1800	J
106-46-7	1,4-Dichlorobenzene	1800	
95-50-1	1,2-Dichlorobenzene	2000	J
95-48-7	2-Methylphenol	2100	J
108-60-1	2,2'-oxybis(1-Chloropropane)	2100	J
106-44-5	4-Methylphenol	2300	
621-64-7	N-Nitroso-di-n-propylamine	2400	
67-72-1	Hexachloroethane	2000	J
98-95-3	Nitrobenzene	2300	J
78-59-1	Isophorone	2300	J
88-75-5	2-Nitrophenol	3300	
105-67-9	2,4-Dimethylphenol	3100	
111-91-1	bis(2-Chloroethoxy)methane	2400	
120-83-2	2,4-Dichlorophenol	3600	
120-82-1	1,2,4-Trichlorobenzene	2200	
91-20-3	Naphthalene	2400	
106-47-8	4-Chloroaniline	1300	J
87-68-3	Hexachlorobutadiene	2200	J
59-50-7	4-Chloro-3-methylphenol	3300	
91-57-6	2-Methylnaphthalene	2500	
77-47-4	Hexachlorocyclopentadiene	2300	U
88-06-2	2,4,6-Trichlorophenol	3400	
95-95-4	2,4,5-Trichlorophenol	2300	
91-58-7	2-Chloronaphthalene	2400	
88-74-4	2-Nitroaniline	2600	
131-11-3	Dimethylphthalate	2300	
208-96-8	Acenaphthylene	2500	
606-20-2	2,6-Dinitrotoluene	3100	
99-09-2	3-Nitroaniline	1700	J
83-32-9	Acenaphthene	2400	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0168 EPA SAMPLE NO.

AO1SS-104MSD

Lab Name: ANALYTICAL SERVICES CORP. Contract: NFESC

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: N2C41844

Matrix: (soil/water) SOIL Lab Sample ID: JN6035CR

Sample wt/vol: 21.7 (g/mL) G Lab File ID: B5362

Level: (low/med) LOW Date Received: 12/09/94

% Moisture: 28 decanted: (Y/N) N Date Extracted: 12/12/94

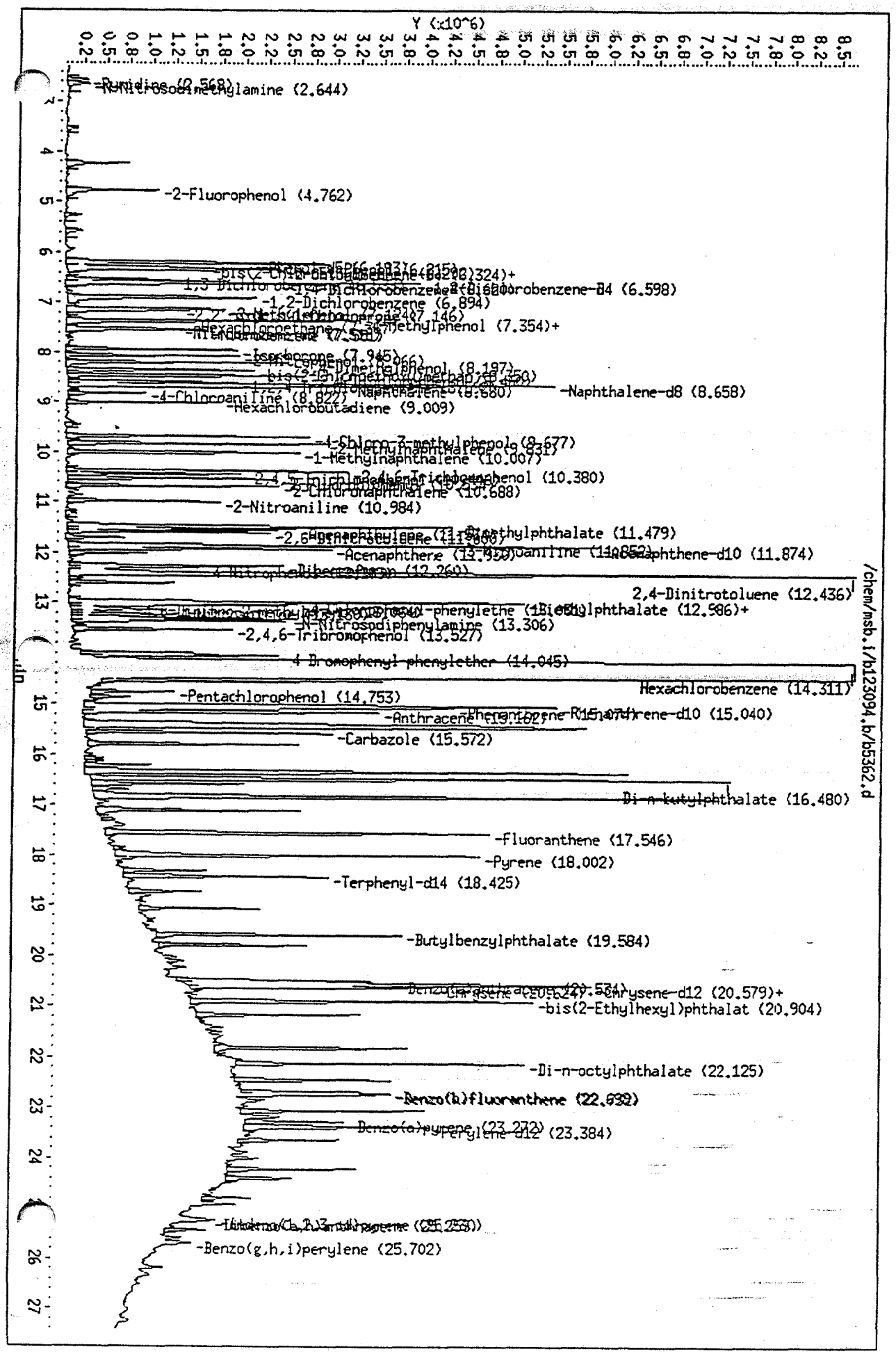
Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/30/94

Injection Volume: 2.00 (uL) Dilution Factor: ~~1.0~~ 5.0

GPC Cleanup: (Y/N) N pH: 7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	12000	U
100-02-7	4-Nitrophenol	3200	
132-64-9	Dibenzofuran	2500	
121-14-2	2,4-Dinitrotoluene	22000	
84-66-2	Diethylphthalate	2400	
7005-72-3	4-Chlorophenyl-phenylether	2400	
86-73-7	Fluorene	2500	
100-01-6	4-Nitroaniline	1700	J
534-52-1	4,6-Dinitro-2-methylphenol	330	J
101-55-3	4-Bromophenyl-phenylether	2500	
86-30-6	N-Nitrosodiphenylamine (1)	2700	
118-74-1	Hexachlorobenzene	1300	J
87-86-5	Pentachlorophenol	2700	
85-01-8	Phenanthrene	3300	
120-12-7	Anthracene	2900	
86-74-8	Carbazole	2600	
84-74-2	Di-n-butylphthalate	2400	
206-44-0	Fluoranthene	3600	
129-00-0	Pyrene	4700	
85-68-2	Butylbenzylphthalate	3100	
91-94-1	3,3'-Dichlorobenzidine	250	J
56-55-3	Benzo(a)anthracene	3100	
218-01-9	Chrysene	3500	
117-81-7	bis(2-Ethylhexyl)phthalate	3200	B
117-84-0	Di-n-octylphthalate	5200	
205-99-2	Benzo(b)fluoranthene	2900	
207-08-9	Benzo(k)fluoranthene	4300	
50-32-8	Benzo(a)pyrene	2600	
193-39-5	Indeno(1,2,3-cd)pyrene	1000	J
53-70-3	Dibenz(a,h)anthracene	1000	J
191-24-2	Benzo(g,h,i)perylene	890	J

(1) - Cannot be separated from Diphenylamine



Data File: /chem/msb.i/b123094.b/b5362.d
Date : 30-DEC-94 11:32
Instrument : msb.i
Sample ID : a01ss-104 msd
Column phase : J&W DB-5
Volume Injected (uL) : 2.0

Column diameter : 0.25

Data File: /chem/msb.i/b123094.b/b5362.d
Report Date: 30-Dec-1994 13:04

Analytical Services Corp.

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/msb.i/b123094.b/b5362.d
Lab. Id. :
Quant Type: ISTD
Inj Date : 30-DEC-94 11:32
Autotune Date: {
Operator : Tom
Inst ID: msb.i
Smp Info : 15629n a01ss-104 msd
Misc Info : jn6035cr,n2c41844,m1,2,1
Comment :
Method : /chem/msb.i/b123094.b/bnaclpb.m
Meth Date : 30-Dec-1994 07:41
Cal Date : 30-DEC-94 07:04
Cal File: b5355.d
Als bottle: 9
Dil Factor: 1.000
Target Version: Target 3.00
Integrator: HP RTE
Compound Sublist: all.sub
Sample Matrix: WATER

12-30-94

	Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
	1 Pyridine	79.00	2.568	(0.389)	287820	11.4	5.68(a)
	2 N-Nitrosodimethylamine	42.00	2.644	(0.401)	225986	14.0	7.03(a)
$	3 2-Fluorophenol	112.00	4.773	(0.723)	669497	23.7	11.9(R)
$	4 Phenol-d5	99.00	6.193	(0.939)	1004410	26.8	13.4
	5 Phenol	94.00	6.215	(0.942)	1170035	27.2	13.6
	6 bis(2-Chloroethyl)ether	93.00	6.292	(0.954)	582625	18.3	9.15(aQ)
$	7 2-Chlorobenzene-D4	132.00	6.314	(0.957)	775680	25.5	12.8(A)
	8 2-Chlorophenol	128.00	6.335	(0.960)	885282	28.2	14.1
	9 1,3-Dichlorobenzene	146.00	6.533	(0.990)	551829	15.4	7.69(a)
*	10 1,4-Dichlorobenzene-d4	152.00	6.598	(1.000)	1193974	40.0	
	11 1,4-Dichlorobenzene	146.00	6.620	(1.003)	561682	15.3	7.67(a)
$	12 1,2-Dichlorobenzene-D4	152.00	6.598	(1.000)	1193974	50.0	25.0(A)
	13 1,2-Dichlorobenzene	146.00	6.905	(1.046)	584163	17.2	8.62(a)
	14 2-Methylphenol	108.00	7.124	(1.080)	580550	18.6	9.32(a)
	15 2,2'-oxybis(1-Chloropropene)	45.00	7.146	(1.083)	1113578	18.1	9.03(a)
	16 4-Methylphenol	108.00	7.354	(1.115)	612296	20.2	10.1
	17 N-Nitroso-di-n-propylamine	70.00	7.365	(1.116)	534034	20.4	10.2
	18 Hexachloroethane	117.00	7.387	(1.119)	286907	17.6	8.82(a)
$	19 Nitrobenzene-d5	82.00	7.518	(0.868)	614426	17.3	8.67(aR)
	20 Nitrobenzene	77.00	7.551	(0.872)	698733	19.6	9.79(a)
	21 Isophorone	82.00	7.945	(0.918)	1430502	19.8	9.88(a)
	22 2-Nitrophenol	139.00	8.066	(0.932)	582686	28.8	14.4
	23 2,4-Dimethylphenol	107.00	8.197	(0.947)	879521	27.1	13.5
	24 bis(2-Chloroethoxy)methane	93.00	8.350	(0.965)	909004	21.0	10.5
	25 2,4-Dichlorophenol	162.00	8.471	(0.978)	887578	31.6	15.8
	26 1,2,4-Trichlorobenzene	180.00	8.592	(0.992)	613186	19.3	9.63(a)
*	27 Naphthalene-d8	136.00	8.658	(1.000)	4137141	40.0	
	28 Naphthalene	128.00	8.680	(1.003)	1762225	20.9	10.5
	29 4-Chloroaniline	127.00	8.833	(1.020)	419857	10.9	5.44(a)

	Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
	30 Hexachlorobutadiene	225.00	9.009	(1.041)	329138	19.2	9.62(a)
	31 4-Chloro-3-methylphenol	107.00	9.677	(1.118)	940750	28.8	14.4
	32 2-Methylnaphthalene	142.00	9.831	(1.136)	1249982	21.5	10.7
	33 1-Methylnaphthalene	142.00	10.018	(1.518)	1217753	21.6	10.8(A)
	35 2,4,6-Trichlorophenol	196.00	10.380	(0.874)	703271	29.5	14.8
	36 2,4,5-Trichlorophenol	196.00	10.446	(0.880)	547458	20.3	10.1(a)
$	37 2-Fluorobiphenyl	172.00	10.534	(0.887)	1229225	18.8	9.40(aR)
	38 2-Chloronaphthalene	162.00	10.688	(0.900)	1283692	20.9	10.5
	39 2-Nitroaniline	65.00	10.984	(0.925)	571948	22.3	11.1(a)
	40 Dimethylphthalate	163.00	11.490	(0.968)	1574860	20.3	10.1
	41 2,6-Dinitrotoluene	165.00	11.600	(0.977)	571870	27.3	13.6
	42 Acenaphthylene	152.00	11.534	(0.971)	2093596	21.9	10.9
	43 3-Nitroaniline	138.00	11.852	(0.998)	305288	14.9	7.43(a)
*	44 Acenaphthene-d10	164.00	11.874	(1.000)	2700857	40.0	
	45 Acenaphthene	153.00	11.930	(1.005)	1284320	20.4	10.2
	47 4-Nitrophenol	109.00	12.293	(1.035)	262773	27.8	13.9(aQ)
	48 Dibenzofuran	168.00	12.260	(1.032)	1857332	21.4	10.7
	49 2,4-Dinitrotoluene	165.00	12.447	(1.048)	5702119	193	96.4(A)
	50 Diethylphthalate	149.00	12.986	(1.094)	1669945	21.3	10.6
	51 4-Chlorophenyl-phenylether	204.00	13.031	(1.097)	787055	20.5	10.2
	52 Fluorene	166.00	12.986	(1.094)	1477562	21.8	10.9
	53 4-Nitroaniline	138.00	13.130	(1.106)	365906	14.6	7.31(a)
	54 4,6-Dinitro-2-methylphenol	198.00	13.064	(0.869)	42906	2.88	1.44(aQ)
	55 N-Nitrosodiphenylamine	169.00	13.306	(0.885)	1046767	23.2	11.6
$	56 2,4,6-Tribromophenol	330.00	13.527	(1.139)	325066	24.6	12.3
	57 4-Bromophenyl-phenylether	248.00	14.045	(0.935)	489099	22.1	11.0
	58 Hexachlorobenzene	284.00	14.311	(0.952)	323142	11.0	5.52(a)
	59 Pentachlorophenol	266.00	14.764	(0.982)	216190	23.3	11.7(a)
*	60 Phenanthrene-d10	188.00	15.029	(1.000)	4655718	40.0	
	61 Phenanthrene	178.00	15.074	(1.003)	2850706	28.7	14.3
	62 Anthracene	178.00	15.162	(1.009)	2458184	24.8	12.4
	63 Carbazole	167.00	15.572	(1.036)	2101070	22.2	11.1
	64 Di-n-butylphthalate	149.00	16.480	(1.096)	3100964	21.2	10.6
	65 Fluoranthene	202.00	17.546	(1.167)	3647055	31.5	15.8
	67 Pyrene	202.00	18.002	(0.875)	3563314	40.8	20.4
$	68 Terphenyl-d14	244.00	18.425	(0.895)	1366030	22.5	11.2(R)
	69 Butylbenzylphthalate	149.00	19.595	(0.952)	1427418	27.2	13.6
	70 Benzo(a)anthracene	228.00	20.534	(0.998)	2017565	27.2	13.6
*	71 Chrysene-d12	240.00	20.579	(1.000)	3052445	40.0	
	72 3,3'-Dichlorobenzidine	252.00	20.568	(0.999)	61552	2.17	1.08(a)
	73 Chrysene	228.00	20.624	(1.002)	1946835	30.6	15.3
	74 bis(2-Ethylhexyl)phthalate	149.00	20.904	(1.016)	2103788	27.7	13.9
	75 Di-n-octylphthalate	149.00	22.125	(0.946)	3245667	44.9	22.4
	76 Benzo(b)fluoranthene	252.00	22.698	(0.971)	1281918	24.7	12.4
	77 Benzo(k)fluoranthene	252.00	22.732	(0.972)	1419830	37.6	18.8
	78 Benzo(a)pyrene	252.00	23.272	(0.995)	885071	22.5	11.3
*	79 Perylene-d12	264.00	23.384	(1.000)	1455249	40.0	
	80 Indeno(1,2,3-cd)pyrene	276.00	25.230	(1.079)	367297	8.96	4.48(a)
	81 Dibenzo(a,h)anthracene	278.00	25.253	(1.080)	288145	8.80	4.40(a)

Data File: /chem/msb.i/b123094.b/b5362.d
Report Date: 30-Dec-1994 13:04

Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
82 Benzo(g,h,i)perylene	276.00	25.702	(1.099)	250275	7.69	3.85(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

1B - 0173 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SSPK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NFESC

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: N2C41844

Matrix: (soil/water) SOIL Lab Sample ID: N2C41844CS

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B5299

Level: (low/med) LOW Date Received: 12/09/94

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/12/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/22/94

Injection Volume: 2.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1600	
111-44-4	bis(2-Chloroethyl)ether	1200	
95-57-8	2-Chlorophenol	1600	
541-73-1	1,3-Dichlorobenzene	1100	
106-46-7	1,4-Dichlorobenzene	1100	
95-50-1	1,2-Dichlorobenzene	1100	
95-48-7	2-Methylphenol	1100	
108-60-1	2,2'-oxybis(1-Chloropropane)	1200	
106-44-5	4-Methylphenol	1100	
621-64-7	N-Nitroso-di-n-propylamine	1100	
67-72-1	Hexachloroethane	1100	
98-95-3	Nitrobenzene	1200	
78-59-1	Isophorone	1200	
88-75-5	2-Nitrophenol	1700	
105-67-9	2,4-Dimethylphenol	1200	
111-91-1	bis(2-Chloroethoxy)methane	1300	
120-83-2	2,4-Dichlorophenol	1700	
120-82-1	1,2,4-Trichlorobenzene	1200	
91-20-3	Naphthalene	980	
106-47-8	4-Chloroaniline	590	
87-68-3	Hexachlorobutadiene	1200	
59-50-7	4-Chloro-3-methylphenol	1700	
91-57-6	2-Methylnaphthalene	950	
77-47-4	Hexachlorocyclopentadiene	150	J
88-06-2	2,4,6-Trichlorophenol	1800	
95-95-4	2,4,5-Trichlorophenol	1200	
91-58-7	2-Chloronaphthalene	1200	
88-74-4	2-Nitroaniline	1300	
131-11-3	Dimethylphthalate	1200	
208-96-8	Acenaphthylene	1000	
606-20-2	2,6-Dinitrotoluene	1200	
99-09-2	3-Nitroaniline	820	
83-32-9	Acenaphthene	1100	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0174 EPA SAMPLE NO.

SSPK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NFESC

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: N2C41844

Matrix: (soil/water) SOIL Lab Sample ID: N2C41844CS

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B5299

Level: (low/med) LOW Date Received: 12/09/94

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/12/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/22/94

Injection Volume: 2.00 (uL) Dilution Factor: 1.0

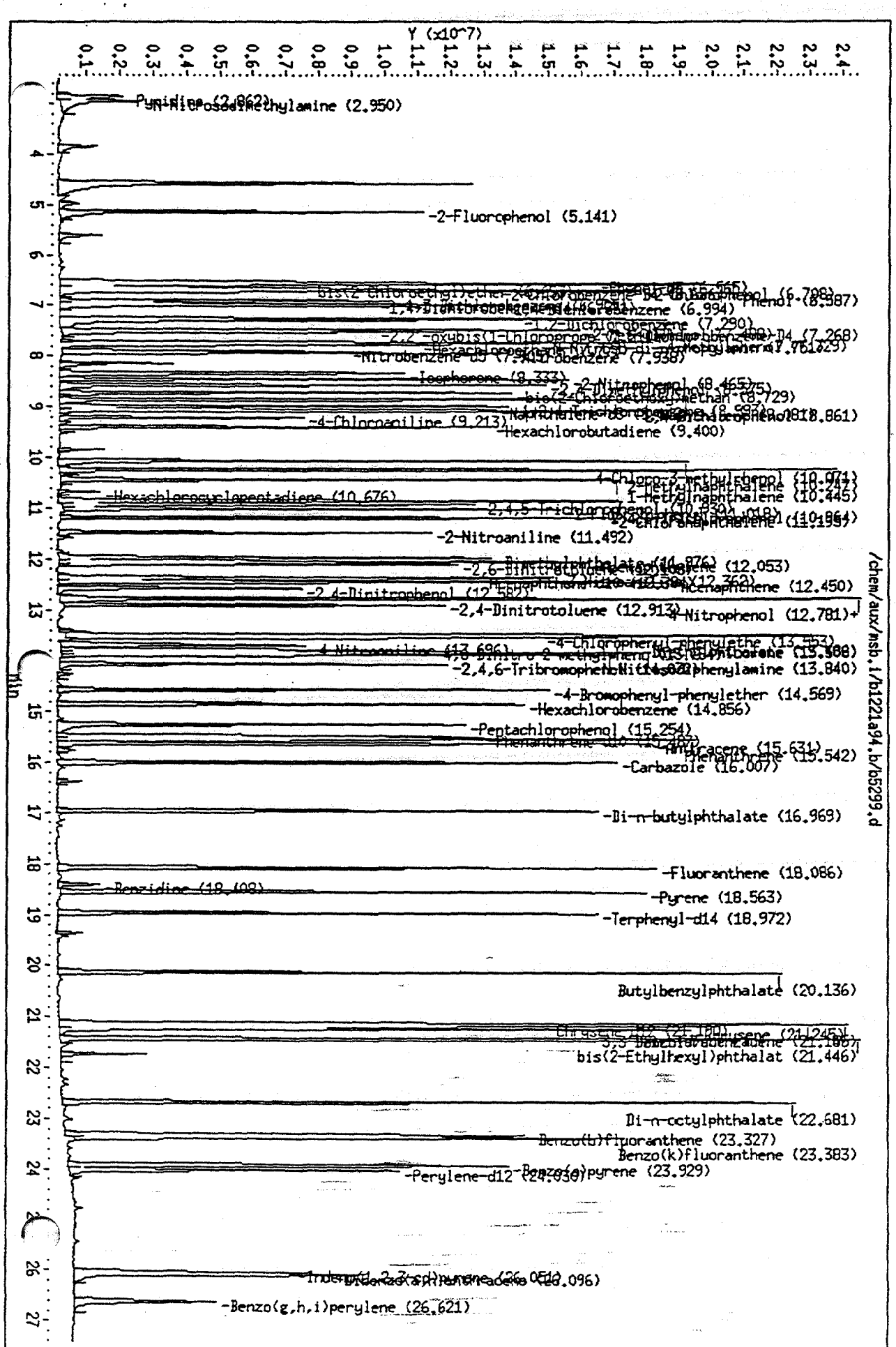
GPC Cleanup: (Y/N) N pH: 7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2100	
100-02-7	4-Nitrophenol	2200	
132-64-9	Dibenzofuran	1100	
121-14-2	2,4-Dinitrotoluene	1200	
84-66-2	Diethylphthalate	1100	
7005-72-3	4-Chlorophenyl-phenylether	1100	
86-73-7	Fluorene	1100	
100-01-6	4-Nitroaniline	1200	
534-52-1	4,6-Dinitro-2-methylphenol	2000	
101-55-3	4-Bromophenyl-phenylether	1200	
86-30-6	N-Nitrosodiphenylamine (1)	1200	
118-74-1	Hexachlorobenzene	1200	
87-86-5	Pentachlorophenol	3100	
85-01-8	Phenanthrene	1000	
120-12-7	Anthracene	1000	
86-74-8	Carbazole	1100	
84-74-2	Di-n-butylphthalate	890	
206-44-0	Fluoranthene	1000	
129-00-0	Pyrene	1100	
85-68-2	Butylbenzylphthalate	1300	
91-94-1	3,3'-Dichlorobenzidine	750	
56-55-3	Benzo(a)anthracene	1300	
218-01-9	Chrysene	1100	
117-81-7	bis(2-Ethylhexyl)phthalate	1100	B
117-84-0	Di-n-octylphthalate	1100	
205-99-2	Benzo(b)fluoranthene	1600	
207-08-9	Benzo(k)fluoranthene	1100	
50-32-8	Benzo(a)pyrene	1200	
193-39-5	Indeno(1,2,3-cd)pyrene	750	
53-70-3	Dibenz(a,h)anthracene	720	
191-24-2	Benzo(g,h,i)perylene	630	

(1) - Cannot be separated from Diphenylamine

Data File: /chem/aux/msb.i/b1221a94.b/b5299.d
Date : 22-DEC-94 05:22
Instrument : msb.i
Sample ID : sspk01
Column phase : J&W DB-5
Volume Injected (uL) : 2.0

Column diameter : 0.25



Page 8

Data File: /chem/aux/msb.i/b1221a94.b/b5299.d
Report Date: 22-Dec-1994 10:49

Analytical Services Corp.

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/aux/msb.i/b1221a94.b/b5299.d
Lab. Id. : Quant Type: ISTD
Inj Date : 22-DEC-94 05:22 Autotune Date: (
Operator : Tom Inst ID: msb.i
Smp Info : method blank spk
Misc Info : n2c41844cs,n2c41844,m1,2,1
Comment :
Method : /chem/aux/msb.i/b1221a94.b/bnaclpb.m
Meth Date : 21-Dec-1994 23:31
Cal Date : 21-DEC-94 23:00 Cal File: b5289.d
Als bottle: 12
Dil Factor: 1.000 Target Version: Target 3.00
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: WATER

12-30-94

	Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
	Pyridine	79.00	2.862	(0.411)	2829573	46.8	23.4
	N-Nitrosodimethylamine	42.00	2.950	(0.423)	2616375	65.0	32.5
$	3 2-Fluorophenol	112.00	5.141	(0.737)	6285431	95.2	47.6
$	4 Phenol-d5	99.00	6.565	(0.942)	8118107	95.4	47.7
	5 Phenol	94.00	6.587	(0.945)	9002624	95.6	47.8 (Q)
	6 bis(2-Chloroethyl)ether	93.00	6.653	(0.954)	5818495	74.1	37.0 (Q)
$	7 2-Chlorobenzene-D4	132.00	6.686	(0.959)	6482624	89.9	44.9 (AR)
	8 2-Chlorophenol	128.00	6.719	(0.964)	7079842	96.0	48.0
	9 1,3-Dichlorobenzene	146.00	6.905	(0.991)	5619874	68.8	34.4
*	10 1,4-Dichlorobenzene-d4	152.00	6.971	(1.000)	2630582	40.0	
	11 1,4-Dichlorobenzene	146.00	6.994	(1.003)	5756802	66.7	33.4
$	12 1,2-Dichlorobenzene-D4	152.00	7.268	(1.043)	2764872	57.0	28.5 (AR)
	13 1,2-Dichlorobenzene	146.00	7.290	(1.046)	5159272	66.5	33.2
	14 2-Methylphenol	108.00	7.488	(1.074)	4743511	64.5	32.2
	15 2,2'-oxybis(1-Chloropropene)	45.00	7.510	(1.077)	9495104	73.1	36.5
	16 4-Methylphenol	108.00	7.729	(1.109)	4839538	67.9	33.9
	17 N-Nitroso-di-n-propylamine	70.00	7.751	(1.112)	4310841	65.8	32.9
	18 Hexachloroethane	117.00	7.773	(1.115)	2390716	64.8	32.4
$	19 Nitrobenzene-d5	82.00	7.905	(0.874)	5451126	65.6	32.8
	20 Nitrobenzene	77.00	7.938	(0.877)	6014263	73.4	36.7
	21 Isophorone	82.00	8.333	(0.921)	12541279	74.7	37.4
	22 2-Nitrophenol	139.00	8.465	(0.936)	4883609	103	51.4
	23 2,4-Dimethylphenol	107.00	8.575	(0.948)	5950903	74.5	37.2
	24 bis(2-Chloroethoxy)methane	93.00	8.729	(0.965)	7824978	75.2	37.6
	25 2,4-Dichlorophenol	162.00	8.861	(0.979)	7006290	103	51.6
	1,2,4-Trichlorobenzene	180.00	8.993	(0.994)	5127038	72.4	36.2
*	Naphthalene-d8	136.00	9.048	(1.000)	10120582	40.0	
	28 Naphthalene	128.00	9.081	(1.004)	12364305	58.7	29.4
	29 4-Chloroaniline	127.00	9.213	(1.018)	3485308	35.3	17.7

Data File: /chem/aux/msb.i/b1221a94.b/b5299.d
Report Date: 22-Dec-1994 10:49

	Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
	30 Hexachlorobutadiene	225.00	9.400	(1.039)	2638936	72.6	36.3
	31 4-Chloro-3-methylphenol	107.00	10.071	(1.113)	7701552	102	51.2
	32 2-Methylnaphthalene	142.00	10.247	(1.133)	8451354	56.8	28.4
	33 1-Methylnaphthalene	142.00	10.445	(1.498)	9333855	71.8	35.9(A)
	34 Hexachlorocyclopentadiene	237.00	10.676	(0.862)	285284	8.97	4.49(a)
	35 2,4,6-Trichlorophenol	196.00	10.864	(0.877)	5419610	108	53.8
	36 2,4,5-Trichlorophenol	196.00	10.930	(0.883)	4196227	74.4	37.2
$	37 2-Fluorobiphenyl	172.00	11.018	(0.890)	9855969	65.2	32.6
	38 2-Chloronaphthalene	162.00	11.195	(0.904)	10170632	73.0	36.5
	39 2-Nitroaniline	65.00	11.492	(0.928)	4342951	75.5	37.8
	40 Dimethylphthalate	163.00	11.976	(0.967)	13372724	71.3	35.6
	41 2,6-Dinitrotoluene	165.00	12.108	(0.978)	3475866	74.6	37.3
	42 Acenaphthylene	152.00	12.053	(0.973)	14971331	62.2	31.1
	43 3-Nitroaniline	138.00	12.362	(0.998)	2525033	49.4	24.7(a)
*	44 Acenaphthene-d10	164.00	12.384	(1.000)	6365334	40.0	
	45 Acenaphthene	153.00	12.450	(1.005)	9695387	68.3	34.1
	46 2,4-Dinitrophenol	184.00	12.582	(1.016)	2419026	127	63.5
	47 4-Nitrophenol	109.00	12.781	(1.032)	2201883	132	65.9(Q)
	48 Dibenzofuran	168.00	12.781	(1.032)	12965575	63.0	31.5
	49 2,4-Dinitrotoluene	165.00	12.913	(1.043)	4919220	74.4	37.2
	50 Diethylphthalate	149.00	13.486	(1.089)	12544562	66.4	33.2
	51 4-Chlorophenyl-phenylether	204.00	13.553	(1.094)	6142098	68.6	34.3
	52 Fluorene	166.00	13.508	(1.091)	10446865	63.8	31.9
	53 4-Nitroaniline	138.00	13.696	(1.106)	3800375	69.1	34.6
	54 4,6-Dinitro-2-methylphenol	198.00	13.795	(0.891)	4135764	122	61.0(Q)
	55 N-Nitrosodiphenylamine	169.00	13.840	(0.894)	8798178	71.5	35.7
$	56 2,4,6-Tribromophenol	330.00	14.072	(1.136)	2737630	99.0	49.5
	57 4-Bromophenyl-phenylether	248.00	14.569	(0.941)	3938305	69.6	34.8
	58 Hexachlorobenzene	284.00	14.856	(0.959)	4886848	70.8	35.4
	59 Pentachlorophenol	266.00	15.254	(0.985)	3346231	188	94.2(A)
*	60 Phenanthrene-d10	188.00	15.487	(1.000)	11652500	40.0	
	61 Phenanthrene	178.00	15.542	(1.004)	16430913	61.6	30.8
	62 Anthracene	178.00	15.642	(1.010)	16473249	60.0	30.0
	63 Carbazole	167.00	16.007	(1.034)	16580543	65.0	32.5
	64 Di-n-butylphthalate	149.00	16.969	(1.096)	19568780	53.2	26.6
	65 Fluoranthene	202.00	18.086	(1.168)	18543099	60.9	30.4
	66 Benzidine	184.00	18.408	(0.869)	1061146	10.4	5.19(a)
	67 Pyrene	202.00	18.563	(0.876)	19074578	67.2	33.6
$	68 Terphenyl-d14	244.00	18.972	(0.895)	12730958	70.1	35.0
	69 Butylbenzylphthalate	149.00	20.136	(0.950)	12876235	76.1	38.0
	70 Benzo(a)anthracene	228.00	21.145	(0.998)	17318462	75.8	37.9
*	71 Chrysene-d12	240.00	21.190	(1.000)	10373143	40.0	
	72 3,3'-Dichlorobenzidine	252.00	21.156	(0.998)	4154345	44.8	22.4
	73 Chrysene	228.00	21.245	(1.003)	15295087	68.5	34.2
	74 bis(2-Ethylhexyl)phthalate	149.00	21.446	(1.012)	16516183	67.4	33.7
	75 Di-n-octylphthalate	149.00	22.681	(0.944)	20639613	66.0	33.0
	76 Benzo(b)fluoranthene	252.00	23.327	(0.971)	18150778	94.9	47.4
	77 Benzo(k)fluoranthene	252.00	23.383	(0.973)	14435694	64.0	32.0
	78 Benzo(a)pyrene	252.00	23.929	(0.996)	12889892	71.3	35.7

Data File: /chem/aux/msb.i/b1221a94.b/b5299.d
Report Date: 22-Dec-1994 10:49

Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
* 79 Perylene-d12	264.00	24.030	(1.000)	6451147	40.0	
80 Indeno(1,2,3-cd)pyrene	276.00	26.051	(1.084)	8046421	45.2	22.6
81 Dibenzo(a,h)anthracene	278.00	26.096	(1.086)	6741292	43.4	21.7
82 Benzo(g,h,i)perylene	276.00	26.632	(1.108)	5524160	38.1	19.0

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

OHM Remediation Services Corp.
A Subsidiary of OHM Corporation

ANALYTICAL DIVISION

Laboratory Analysis Report

Client: OHM Remediation Services Corp.
Southern Region (Morrisville, NC)

VOLUME II OF II

Attn: Kent Geis

Project: 15226N - NEESA; Camp LeJeune, Jacksonville, NC

Sample(s): CLJ-DD-01

Sample Type(s): Solid

Analysis Performed: Tier II - Conventionals, Metals, Organics and RCRA TCLP Leachate Parameters

Date Sample Received: December 9, 1994

Date Order Received: December 9, 1994

Joblink(s): 617246

Reviewed and Approved by: *Thomas E. Gran, Ph.D., Vice President*

Date: May 15, 1995

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0179 EPA SAMPLE NO.

CLJ-DD-01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NFESC

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DD-01

Matrix: (soil/water) WATER Lab Sample ID: JN6023C

Sample wt/vol: 200 (g/mL) ML Lab File ID: B5217

Level: (low/med) LOW Date Received: 12/09/94

% Moisture: 4 decanted: (Y/N) Date Extracted: 12/15/94

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 12/16/94

Injection Volume: 2.00 (uL) Dilution Factor: 1.0

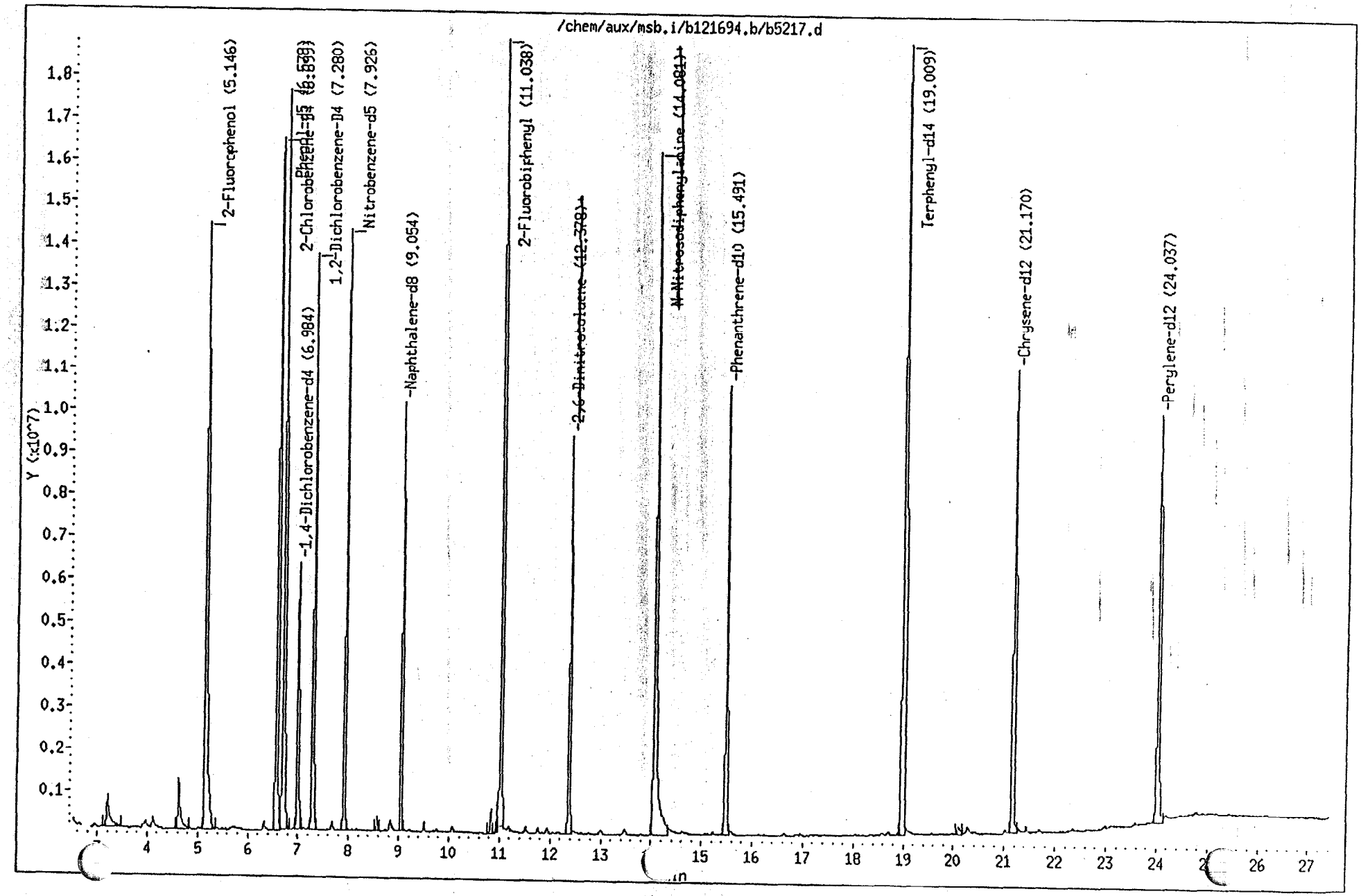
GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	100	U
118-74-1	Hexachlorobenzene	100	U
67-72-1	Hexachloroethane	100	U
87-68-3	Hexachlorobutadiene	100	U
95-48-7	2-Methylphenol	100	U
106-44-5	4-Methylphenol	100	U
98-95-3	Nitrobenzene	100	U
87-86-5	Pentachlorophenol	100	U
110-86-1	Pyridine	100	U
95-95-4	2,4,5-Trichlorophenol	100	U
88-06-2	2,4,6-Trichlorophenol	100	U

0180

Data File: /chem/aux/msb.i/b121694.b/b5217.d
Date : 16-DEC-94 15:10
Instrument : msb.i
Sample ID : clj-dd-01
Column phase : J&W DB-5
Volume Injected (uL) : 2.0

Column diameter : 0.25



Data File: /chem/aux/msb.i/b121694.b/b5217.d
Report Date: 19-Dec-1994 07:12

Analytical Services Corp.

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/aux/msb.i/b121694.b/b5217.d
Lab. Id. :
Quant Type: ISTD
Inj Date : 16-DEC-94 15:10
Autotune Date: {
Operator : Tom
Inst ID: msb.i
Smp Info : 15226n clj-dd-01
Misc Info : jn6023c,n7c41858,m1,2,1
Comment :
Method : /chem/aux/msb.i/b121694.b/bnaclpb.m
Meth Date : 16-Dec-1994 11:21 tom
Cal Date : 16-DEC-94 08:16
Cal File: b5208.d
Als bottle: 12
Dil Factor: 1.000
Target Version: Target 3.00
Integrator: HP RTE
Compound Sublist: all.sub
Sample Matrix: WATER

Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
$ 2-Fluorophenol	112.00	5.146	(0.737)	9237454	194	96.8(AR)
$ 4 Phenol-d5	99.00	6.579	(0.942)	11715167	187	93.5(AR)
$ 7 2-Chlorobenzene-D4	132.00	6.699	(0.959)	9819270	190	94.8(AR)
* 10 1,4-Dichlorobenzene-d4	152.00	6.984	(1.000)	2096963	40.0	
$ 12 1,2-Dichlorobenzene-D4	152.00	7.280	(1.042)	4537718	130	64.8(AR)
$ 19 Nitrobenzene-d5	82.00	7.926	(0.875)	8302393	145	72.4(R)
* 27 Naphthalene-d8	136.00	9.054	(1.000)	7159577	40.0	
$ 37 2-Fluorobiphenyl	172.00	11.038	(0.892)	13535282	134	66.8(R)
41 2,6-Dinitrotoluene	165.00	12.378	(1.000)	660679	21.7	~~10.9(Q)~~
* 44 Acenaphthene-d10	164.00	12.378	(1.000)	4700531	40.0	
55 N-Nitrosodiphenylamine	169.00	14.081	(0.910)	191571	2.32	~~1.16(aQ)~~
$ 56 2,4,6-Tribromophenol	330.00	14.081	(1.138)	5883392	277	139(AR)
* 60 Phenanthrene-d10	188.00	15.480	(1.000)	8572485	40.0	
$ 68 Terphenyl-d14	244.00	19.009	(0.898)	21389691	142	70.8(R)
* 71 Chrysene-d12	240.00	21.170	(1.000)	8704586	40.0	
* 79 Perylene-d12	264.00	24.037	(1.000)	7494108	40.0	

FSC 12-19-94

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

2L
LEACHATE SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ANALYTICAL SERVICES CORP. Contract: NFESC

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DD-01

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	SBLK01	83	78	57	82	82	87			0
02	SSPK01	80	77	108	80	76	93			0
03	A01SS-101MS	78	76	110	75	74	101			0
04	A01SS-101MSD	83	78	117	77	74	94			0
05	A01SS-101	70	69	42	57	40	57			0
~~06~~	~~A01SS-104~~	~~79~~	~~75~~	~~56~~	~~69~~	~~67~~	~~77~~			~~0~~
~~07~~	~~A01SS-105~~	~~67~~	~~69~~	~~73~~	~~59~~	~~62~~	~~75~~			~~0~~
~~08~~	~~A01SS-106~~	~~68~~	~~66~~	~~75~~	~~59~~	~~63~~	~~71~~			~~0~~
09	CLJ-DD-01	81	77	83	74	75	99			0

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(35-114)	
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)	
S3 (TPH)	= Terphenyl-d14	(33-141)	
S4 (PHL)	= Phenol-d5	(10-110)	
S5 (2FP)	= 2-Fluorophenol	(21-110)	
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)	
S7 (2CP)	= 1,2,4,5-Tetrachlorobenz		(advisory)
S8 (DCB)	= 1-Methylnaphthalene-d10		(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D System Monitoring compound diluted out

3L

LEACHATE SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ANALYTICAL SERVICES CORP. Contract: NFESC

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DD-01

Matrix Spike - EPA Sample No.: A01SS-101

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
2-Methylphenol	260	0	180	69	30-130
4-Methylphenol	530	0	390	74	30-130
Hexachloroethane	510	0	160	31	30-130
Nitrobenzene	510	0	360	71	30-130
Hexachlorobutadiene	250	0	78	31	30-130
2,4,6-Trichlorophenol	710	0	540	76	30-130
2,4,5-Trichlorophenol	540	0	460	85	30-130
2,4-Dinitrotoluene	130	0	120	92	24- 96
Hexachlorobenzene	140	0	110	79	30-130
Pentachlorophenol	580	0	800	138 *	9-103
Pyridine	760	0	440	58	30-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
2-Methylphenol	260	230	88	25 *	20	30-130
4-Methylphenol	530	520	98	28 *	20	30-130
Hexachloroethane	510	290	57	57 *	20	30-130
Nitrobenzene	510	480	94	28 *	20	30-130
Hexachlorobutadiene	250	140	56	57 *	20	30-130
2,4,6-Trichlorophenol	710	690	97	24 *	20	30-130
2,4,5-Trichlorophenol	540	570	106	21 *	20	30-130
2,4-Dinitrotoluene	130	160	123 *	27	38	24- 96
Hexachlorobenzene	140	160	114	38 *	20	30-130
Pentachlorophenol	580	970	167 *	20	50	9-103
Pyridine	760	630	83	35 *	20	30-130

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 9 out of 11 outside limits
Spike Recovery: 3 out of 22 outside limits

COMMENTS: _____

3L

LEACHATE SEMIVOLATILE BLANK SPIKE RECOVERY

0184

Lab Name: ANALYTICAL SERVICES CORP. Contract: NFESC

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DD-01

Matrix Spike - EPA Sample No.: SSPK01

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC LIMITS REC.
2-Methylphenol	260	0	210	81	30-130
4-Methylphenol	530	0	460	87	30-130
Hexachloroethane	510	0	360	71	30-130
Nitrobenzene	510	0	430	84	30-130
Hexachlorobutadiene	250	0	210	84	30-130
2,4,6-Trichlorophenol	710	0	620	87	30-130
2,4,5-Trichlorophenol	540	0	490	91	30-130
2,4-Dinitrotoluene	130	0	120	92	24- 96
Hexachlorobenzene	140	0	150	107	30-130
Pentachlorophenol	580	0	720	124 *	9-103
Pyridine	760	0	570	75	30-130

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

Spike Recovery: 1 out of 11 outside limits

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

0185 EPA SAMPLE NO.

SBLK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NFESC

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DD-01

Lab File ID: B5209 Lab Sample ID: N7C41858C

Instrument ID: MSB.i Date Extracted: 12/15/94

Matrix: (soil/water) WATER Date Analyzed: 12/16/94

Level: (low/med) LOW Time Analyzed: 10:18

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	A01SS-101	JN5813C	B5213	12/16/94
~~02~~	~~A01SS-104~~	~~JN6035C~~	~~B5214~~	~~12/16/94~~
~~03~~	~~A01SS-105~~	~~JN6036C~~	~~B5215~~	~~12/16/94~~
~~04~~	~~A01SS-106~~	~~JN6037C~~	~~B5216~~	~~12/16/94~~
05	CLJ-DD-01	JN6023C	B5217	12/16/94
06	A01SS-101MSD	JN5813CR	B5212	12/16/94
07	SSPK01	N7C41858CS	B5210	12/16/94
08	A01SS-101MS	JN5813CS	B5211	12/16/94

COMMENTS:

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ASC Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLT-DD-01

Lab File ID: B5179 DFTPP Injection Date: 12/15/94

Instrument ID: MSB.E DFTPP Injection Time: 07:39

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	49.8
68	Less than 2.0% of mass 69	0 (0 1
69	Mass 69 relative abundance	58.5
70	Less than 2.0% of mass 69	0.2 (0.3 1
127	25.0 - 75.0% of mass 198	40.1
197	Less than 1.0% of mass 198	0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.3
275	10.0 - 30.0% of mass 198	17.5
365	Greater than 0.75% of mass 198	2.37
441	Present, but less than mass 443	82
442	40.0 - 110.0% of mass 198	69.6
443	15.0 - 24.0% of mass 442	14.0 (20.1 2

1-Value is % mass 69 2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD20	SSTD20	B5181	12/15/94	08:42
02	SSTD50	SSTD50	B5182		09:19
03	SSTD80	SSTD80	B5183		09:56
04	SSTD120	SSTD120	B5184		10:32
05	SSTD160	SSTD160	B5185		11:09
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

SB

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ASC Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-HSD-C

Lab File ID: BS20U DFTPP Injection Date: 12/10/94

Instrument ID: MSB.T DFTPP Injection Time: 07:12

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	50.1
68	Less than 2.0% of mass 69	0 (0)
69	Mass 69 relative abundance	57.6
70	Less than 2.0% of mass 69	0.2 (0.3)
127	25.0 - 75.0% of mass 198	39.5
197	Less than 1.0% of mass 198	0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.4
275	10.0 - 30.0% of mass 198	20.2
365	Greater than 0.75% of mass 198	2.14
441	Present, but less than mass 443	81
442	40.0 - 110.0% of mass 198	85.3
443	15.0 - 24.0% of mass 442	16.7 (19.5)

1-Value is % mass 69 2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD50	SSTD50	BS208	12/10/94	05:16
02	SBLK01	SBLK01	BS209		10:18
03	SSPK01	SSPK01	BS210		10:54
04	A0155-101MS	JN5813CS	BS211		11:30
05	A0155-101MSD	JN5813CR	BS212		12:07
06	CLT-DD-01	JN6023C	BS217		15:10
07	FLUID#1	FLUID#1	BS218	↓	15:47
08	A0155-01	JN5813C	BS213	↓	12:44
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Report Date : 15-Dec-1994 14:54

Analytical Services Corp.

INITIAL CALIBRATION DATA

Start Cal Date : 15-DEC-94 09:56
End Cal Date : 15-DEC-94 11:09
Quant Method : ISTD
Cal Curve Type : Averaged
Target Version : Target 3.00
Integrator : HP RTE
Method file : /chem/aux/msb.i/b121594.b/bnaclpb.m
Cal Date : 15-Dec-1994 14:35

Calibration File Names:
Level 1: /chem/aux/msb.i/b121594.b/b5181.d
Level 2: /chem/aux/msb.i/b121594.b/b5182.d
Level 3: /chem/aux/msb.i/b121594.b/b5183.d
Level 4: /chem/aux/msb.i/b121594.b/b5184.d
Level 5: /chem/aux/msb.i/b121594.b/b5185.d

	Compound	20 Level 1	50 Level 2	80 Level 3	120 Level 4	160 Level 5	RRF	% RSD/R^2
1	Pyridine	1.03226	0.82749	0.84435	0.89311	0.98176	0.91580	9.664
2	N-Nitrosodimethylamine	0.66000	0.63634	0.62638	0.68196	0.68970	0.65887	4.190
5	Phenol	1.49180	1.30394	1.27021	1.21444	1.11392	1.27886	10.877
6	bis(2-Chloroethyl)ether	1.25996	1.10949	1.08037	1.04799	0.97138	1.09384	9.710
8	2-Chlorophenol	1.16047	1.00529	0.99411	0.96692	0.91790	1.00894	9.037
9	1,3-Dichlorobenzene	1.30426	1.17063	1.13773	1.11272	1.10727	1.16652	6.941
11	1,4-Dichlorobenzene	1.32556	1.18355	1.15649	1.11406	1.03449	1.16283	9.202
13	1,2-Dichlorobenzene	1.30262	1.08774	1.04777	0.95878	0.84904	1.04919	16.087
14	2-Methylphenol	1.01715	0.92355	0.98417	0.96916	0.90171	0.95915	4.850
15	2,2'-oxybis(1-Chloropropene)	2.54965	2.30205	2.32684	2.38774	2.41610	2.39648	4.051
16	4-Methylphenol	1.10171	1.01767	0.98109	0.91038	0.85162	0.97250	9.927
17	N-Nitroso-di-n-propylamine	1.11145	0.99956	0.99528	0.92909	0.83986	0.97505	10.256
18	Hexachloroethane	0.61008	0.52263	0.51965	0.48034	0.41526	0.50959	13.918
20	Nitrobenzene	0.35186	0.31942	0.30911	0.29494	0.28135	0.31134	8.619
21	Isophorone	0.71602	0.62970	0.63525	0.60694	0.63753	0.64509	6.428
22	2-Nitrophenol	0.19348	0.17683	0.17587	0.16555	0.16186	0.17472	7.052
23	2,4-Dimethylphenol	0.32393	0.30190	0.29404	0.27403	0.26300	0.29138	8.201
24	bis(2-Chloroethoxy)methane	0.45655	0.40356	0.39158	0.36292	0.35874	0.39467	9.989
25	2,4-Dichlorophenol	0.28883	0.26219	0.25261	0.22335	0.21188	0.24777	12.441
26	1,2,4-Trichlorobenzene	0.30798	0.27725	0.26179	0.23982	0.22804	0.26297	12.005
28	Naphthalene	0.89466	0.78110	0.74511	0.65606	0.58318	0.73202	16.301
29	4-Chloroaniline	0.42026	0.37866	0.36549	0.33533	0.31788	0.36352	10.943
30	Hexachlorobutadiene	0.18892	0.14682	0.15127	0.13126	0.12857	0.14937	16.177
31	4-Chloro-3-methylphenol	0.32242	0.29675	0.28783	0.26295	0.25558	0.28511	9.441
	2-Methylnaphthalene	0.63397	0.55693	0.51393	0.46132	0.42577	0.51839	15.760
	1-Methylnaphthalene	2.12918	1.83022	1.76092	1.65536	1.57167	1.78947	11.963
34	Hexachlorocyclopentadiene	0.19205	0.20955	0.22324	0.24951	0.25066	0.22500	11.302

Analytical Services Corp.

INITIAL CALIBRATION DATA

Start Cal Date : 15-DEC-94 09:56
End Cal Date : 15-DEC-94 11:09
Quant Method : ISTD
Cal Curve Type : Averaged
Target Version : Target 3.00
Integrator : HP RTE
Method file : /chem/aux/msb.i/b121594.b/bnaclpb.m
Cal Date : 15-Dec-1994 14:35

	Compound	20 Level 1	50 Level 2	80 Level 3	120 Level 4	160 Level 5	RRF	% RSD/R^2	
35	2,4,6-Trichlorophenol	0.34037	0.29531	0.28764	0.29778	0.29379	0.30298	7.008	
36	2,4,5-Trichlorophenol	0.37600	0.33929	0.33316	0.33830	0.32337	0.34203	5.852	
38	2-Chloronaphthalene	0.91603	0.77509	0.74930	0.76037	0.72449	0.78505	9.619	<-
39	2-Nitroaniline	0.38363	0.34553	0.35646	0.37524	0.38134	0.36844	4.525	
40	Dimethylphthalate	1.23386	1.06672	1.04831	1.07179	1.03923	1.09198	7.364	
41	2,6-Dinitrotoluene	0.29364	0.26753	0.26365	0.27043	0.26523	0.27210	4.526	
42	Acenaphthylene	1.58340	1.33294	1.27955	1.25580	1.15840	1.32202	12.043	
43	3-Nitroaniline	0.30707	0.27943	0.27302	0.27055	0.26337	0.27869	6.055	
45	Acenaphthene	0.97943	0.82687	0.78090	0.77072	0.72532	0.81665	11.987	
46	2,4-Dinitrophenol	*****	0.12287	0.15028	0.17380	0.17936	0.15670	16.538	
47	4-Nitrophenol	0.10599	0.09845	0.11019	0.11535	0.10976	0.10795	5.808	
48	Dibenzofuran	1.39055	1.18079	1.10212	1.07018	0.98375	1.14548	13.455	
49	2,4-Dinitrotoluene	0.41595	0.37237	0.38897	0.39375	0.39171	0.39255	3.966	
50	Diethylphthalate	1.27911	1.10918	1.05403	0.95909	0.80422	1.04113	16.931	
51	4-Chlorophenyl-phenylether	0.63935	0.54170	0.50812	0.48165	0.42543	0.51925	15.307	
52	Fluorene	1.13344	0.93444	0.85597	0.76170	0.63329	0.86377	21.761	<-
53	4-Nitroaniline	0.33007	0.29970	0.30684	0.31805	0.32549	0.31603	4.008	
54	4,6-Dinitro-2-methylphenol	0.10616	0.11356	0.12030	0.12475	0.12009	0.11707	6.240	
55	N-Nitrosodiphenylamine	0.44497	0.37244	0.35886	0.33997	0.29911	0.36307	14.728	
57	4-Bromophenyl-phenylether	0.22623	0.18989	0.18031	0.17281	0.16205	0.18527	13.196	
58	Hexachlorobenzene	0.27723	0.24147	0.22799	0.21725	0.20505	0.23380	11.867	
59	Pentachlorophenol	0.05097	0.07587	0.08934	0.10426	0.10631	0.08735	21.996	<-
61	Phenanthrene	0.93154	0.80800	0.75279	0.70484	0.63026	0.76549	14.824	
62	Anthracene	0.98800	0.83252	0.78146	0.71299	0.62993	0.78898	17.079	
63	Carbazole	0.87575	0.77786	0.71817	0.67788	0.61828	0.73359	13.427	
64	Di-n-butylphthalate	1.34199	1.18687	1.09539	0.93238	0.76206	1.06384	21.118	
65	Fluoranthene	1.09297	0.94766	0.88450	0.79782	0.72293	0.88918	16.000	
66	Benzidine	0.45023	0.35865	0.36246	*****	*****	0.39045	13.269	
67	Pyrene	1.18070	1.04375	1.02473	1.02612	0.98553	1.05218	7.121	
69	Butylbenzylphthalate	0.66653	0.58697	0.58693	0.58986	0.59015	0.60410	5.787	
70	Benzo(a)anthracene	0.92375	0.78437	0.76861	0.77897	0.72914	0.79697	9.297	<-
71	3,3'-Dichlorobenzidine	0.36698	0.32273	0.31568	0.29504	0.27746	0.31558	10.708	
72	Chrysene	0.89714	0.83331	0.79094	0.78612	0.83509	0.82852	5.392	
74	bis(2-Ethylhexyl)phthalate	0.96151	0.85733	0.84484	0.82447	0.77995	0.85362	7.861	

Analytical Services Corp.

INITIAL CALIBRATION DATA

Start Cal Date : 15-DEC-94 09:56
End Cal Date : 15-DEC-94 11:09
Quant Method : ISTD
Cal Curve Type : Averaged
Target Version : Target 3.00
Integrator : HP RTE
Method file : /chem/aux/msb.i/b121594.b/bnaclpb.m
Cal Date : 15-Dec-1994 14:35

	Compound	20 Level 1	50 Level 2	80 Level 3	120 Level 4	160 Level 5	RRF	% RSD/R^2	
	75 Di-n-octylphthalate	1.77400	1.55175	1.40172	1.21327	1.03293	1.39475	20.667	
	76 Benzo(b)fluoranthene	1.07002	0.87327	0.93816	0.83880	0.93185	0.93042	9.494	
	77 Benzo(k)fluoranthene	1.08613	1.05934	0.84245	0.72537	0.76577	0.89581	18.660	
	78 Benzo(a)pyrene	0.89896	0.81877	0.77664	0.74642	0.75316	0.79879	7.855	
	80 Indeno(1,2,3-cd)pyrene	0.76622	0.75975	0.69110	0.68153	0.62090	0.70391	8.569	
	81 Dibenzo(a,h)anthracene	0.65190	0.61802	0.58601	0.58905	0.53746	0.59649	7.104	
	82 Benzo(g,h,i)perylene	0.60207	0.58761	0.54580	0.53901	0.49939	0.55478	7.383	
|S	3 2-Fluorophenol	0.97578	0.87689	0.89641	0.91799	0.93930	0.92138	4.173	
|S	4 Phenol-d5	1.35924	1.20185	1.14724	1.09364	1.01354	1.16310	11.162	
|S	7 2-Chlorobenzene-D4	1.11592	0.98564	0.95167	0.92762	0.84572	0.96531	10.230	
|S	12 1,2-Dichlorobenzene-D4	0.80581	0.68357	0.64518	0.59376	0.50444	0.64655	17.243	<- Advisory only
|S	19 Nitrobenzene-d5	0.34409	0.31598	0.31446	0.30531	0.29514	0.31500	5.801	
|S	37 2-Fluorobiphenyl	1.04291	0.85870	0.83592	0.82378	0.78338	0.86894	11.626	
|S	56 2,4,6-Tribromophenol	0.20022	0.19385	0.20609	0.21531	0.21227	0.20555	4.256	
|S	63 Terphenyl-d14	0.82122	0.73431	0.70202	0.71019	0.70707	0.73496	6.775	

Data File: /chem/aux/msb.i/b121694.b/b5208.d
Report Date: 16-Dec-1994 09:53

Analytical Services Corp.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msb.i
Lab File ID: b5208.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 16-DEC-94 08:16
Init. Calibration Date(s): 12/15/94 12/15/94
Init. Calibration Times: 09:56 11:09
Method File: /chem/aux/msb.i/b121694.b/bnaclpb.m

		COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D	
	1	Pyridine	0.916	0.919	0.010	0.4	100.0	
	2	N-Nitrosodimethylamine	0.659	0.637	0.010	3.3	100.0	
$	3	2-Fluorophenol	0.921	0.910	0.600	1.2	25.0	
$	4	Phenol-d5	1.163	1.196	0.800	2.8	25.0	
	5	Phenol	1.279	1.322	0.800	3.4	25.0	
	6	bis(2-Chloroethyl)ether	1.094	1.096	0.700	0.2	25.0	
$	7	2-Chlorobenzene-D4	0.965	0.987	0.700	2.3	25.0	
	8	2-Chlorophenol	1.009	1.031	0.800	2.2	25.0	
	9	1,3-Dichlorobenzene	1.167	1.156	0.600	0.9	25.0	
	11	1,4-Dichlorobenzene	1.163	1.172	0.500	0.7	25.0	
$	12	1,2-Dichlorobenzene-D4	0.647	0.668	0.700	3.3	25.0	<- Advisory
	13	1,2-Dichlorobenzene	1.049	1.093	0.400	4.2	25.0	
	14	2-Methylphenol	0.959	1.048	0.700	9.3	25.0	
	15	2,2'-oxybis(1-Chloropropene)	2.396	2.223	0.010	7.3	100.0	
	16	4-Methylphenol	0.972	0.980	0.600	0.8	25.0	
	17	N-Nitroso-di-n-propylamine	0.975	0.971	0.500	0.4	25.0	
	18	Hexachloroethane	0.510	0.515	0.300	1.0	25.0	
$	19	Nitrobenzene-d5	0.315	0.320	0.200	1.7	25.0	
	20	Nitrobenzene	0.311	0.311	0.200	0.1	25.0	
	21	Isophorone	0.645	0.619	0.400	4.0	25.0	
	22	2-Nitrophenol	0.175	0.175	0.100	0.2	25.0	
	23	2,4-Dimethylphenol	0.291	0.297	0.200	1.8	25.0	
	24	bis(2-Chloroethoxy)methane	0.395	0.388	0.300	1.7	25.0	
	25	2,4-Dichlorophenol	0.248	0.257	0.200	3.6	25.0	
	26	1,2,4-Trichlorobenzene	0.263	0.268	0.200	1.9	25.0	
	28	Naphthalene	0.732	0.770	0.700	5.2	25.0	
	29	4-Chloroaniline	0.364	0.368	0.010	1.3	100.0	
	30	Hexachlorobutadiene	0.149	0.157	0.010	5.1	100.0	
	31	4-Chloro-3-methylphenol	0.285	0.283	0.200	0.6	25.0	
	32	2-Methylnaphthalene	0.518	0.542	0.400	4.6	25.0	
	33	1-Methylnaphthalene	1.789	1.783	0.010	0.4	100.0	
	34	Hexachlorocyclopentadiene	0.225	0.183	0.010	18.6	100.0	
	35	2,4,6-Trichlorophenol	0.303	0.296	0.200	2.3	25.0	
	36	2,4,5-Trichlorophenol	0.342	0.341	0.200	0.4	25.0	
$	37	2-Fluorobiphenyl	0.869	0.862	0.700	0.8	25.0	
	38	2-Chloronaphthalene	0.785	0.796	0.800	1.4	25.0	<-
	39	2-Nitroaniline	0.368	0.352	0.010	4.3	100.0	
	40	Dimethylphthalate	1.092	1.063	0.010	2.7	100.0	
	41	2,6-Dinitrotoluene	0.272	0.259	0.200	5.0	25.0	
	42	Acenaphthylene	1.332	1.355	1.300	2.5	25.0	

Data File: /chem/aux/msb.i/b121694.b/b5208.d
Report Date: 16-Dec-1994 09:53

Analytical Services Corp.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msb.i
Lab File ID: b5208.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 16-DEC-94 08:16
Init. Calibration Date(s): 12/15/94 12/15/94
Init. Calibration Times: 09:56 11:09
Method File: /chem/aux/msb.i/b121694.b/bnaclpb.m

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D	
	43 3-Nitroaniline	0.279	0.284	0.010	1.9	100.0	
	45 Acenaphthene	0.817	0.815	0.800	0.2	25.0	
	46 2,4-Dinitrophenol	0.157	0.109	0.010	30.2	100.0	
	47 4-Nitrophenol	0.103	0.097	0.010	9.7	100.0	
	48 Dibenzofuran	1.145	1.156	0.800	0.9	25.0	
	49 2,4-Dinitrotoluene	0.393	0.373	0.200	4.9	25.0	
	50 Diethylphthalate	1.041	1.067	0.010	2.5	100.0	
	51 4-Chlorophenyl-phenylether	0.519	0.529	0.400	1.8	25.0	
	52 Fluorene	0.864	0.944	0.900	9.3	25.0	<-
	53 4-Nitroaniline	0.316	0.320	0.010	1.3	100.0	
	54 4,6-Dinitro-2-methylphenol	0.117	0.103	0.010	11.8	100.0	
	55 N-Nitrosodiphenylamine	0.363	0.385	0.010	6.1	100.0	
S	56 2,4,6-Tribromophenol	0.206	0.181	0.010	12.1	100.0	
	57 4-Bromophenyl-phenylether	0.186	0.184	0.100	1.2	25.0	
	58 Hexachlorobenzene	0.234	0.240	0.100	2.6	25.0	
	59 Pentachlorophenol	0.087	0.064	0.050	26.3	25.0	<-
	61 Phenanthrene	0.765	0.817	0.700	6.7	25.0	
	62 Anthracene	0.789	0.836	0.700	5.9	25.0	
	63 Carbazole	0.734	0.791	0.010	7.8	100.0	
	64 Di-n-butylphthalate	1.064	1.123	0.010	5.6	100.0	
	65 Fluoranthene	0.889	0.944	0.600	6.2	25.0	
	66 Benzidine	0.390	0.345	0.010	11.6	100.0	
	67 Pyrene	1.052	1.024	0.600	2.7	25.0	
S	68 Terphenyl-d14	0.735	0.694	0.500	5.6	25.0	
	69 Butylbenzylphthalate	0.604	0.582	0.010	3.6	100.0	
	70 Benzo(a)anthracene	0.797	0.838	0.800	5.1	25.0	<-
	72 3,3'-Dichlorobenzidine	0.316	0.354	0.010	12.1	100.0	
	73 Chrysene	0.829	0.817	0.700	1.4	25.0	
	74 bis(2-Ethylhexyl)phthalate	0.854	0.873	0.010	2.3	100.0	
	75 Di-n-octylphthalate	1.395	1.409	0.010	1.0	100.0	
	76 Benzo(b)fluoranthene	0.930	1.043	0.700	12.1	25.0	
	77 Benzo(k)fluoranthene	0.896	0.823	0.700	8.1	25.0	
	78 Benzo(a)pyrene	0.799	0.820	0.700	2.6	25.0	
	80 Indeno(1,2,3-cd)pyrene	0.704	0.796	0.500	13.0	25.0	
	81 Dibenzo(a,h)anthracene	0.596	0.677	0.400	13.4	25.0	
	82 Benzo(g,h,i)perylene	0.555	0.635	0.500	14.5	25.0	

88

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ASC Contract: NEESA

Lab Code: N/A Case No.: 15220N SAS No.: N/A SDG No.: CLT-DD-01

Lab File ID (Standard): B5208 Date Analyzed: 12/16/94

Instrument ID: MSB.I Time Analyzed: 09:16

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT
	12 HOUR STD	1686681	6.98	6312080	9.05	4270510	12.38
	UPPER LIMIT	3373362	7.48	12624160	9.55	8541020	12.88
	LOWER LIMIT	843340	6.48	3156040	8.55	2135255	11.88
	EPA SAMPLE NO.						
01	SBLK01	1825680	6.98	6555504	9.05	4325519	12.37
02	SSPK01	1961123	6.98	7170126	9.04	4639514	12.37
03	A0155-101MS	1962896	6.97	7105657	9.04	4599399	12.38
04	A0155-101MSD	2087134	6.98	7301118	9.04	4775602	12.38
05	CLT-DD-01	2096963	6.98	7159577	9.05	4700531	12.38
06	FLUID#1	2089870	6.98	7174387	9.05	4742862	12.37
07	A0155-101	2145716	6.98	7444031	9.05	4943953	12.38
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ASC Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLI-DD-01

Lab File ID (Standard): B5208 Date Analyzed: 12/10/94

Instrument ID: MSB.I Time Analyzed: 08:16

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	8011462		15.48		7643793		21.17		8213518		24.02	
	UPPER LIMIT	16022924		15.98		15287586		21.67		16431036		24.52	
	LOWER LIMIT	4005731		14.98		3821896		20.67		4107759		23.52	
	EPA SAMPLE NO.												
01	SBLK01	7912495		15.47		8420408		21.15		7031202		24.02	
02	SSPK01	8495869		15.48		6184357		21.16		7489030		24.02	
03	AQ1SS-101MS	8920558		15.50		6753352		21.16		7245534		24.01	
04	AQ1SS-101MSD	9075812		15.50		6092624		21.16		7794329		24.02	
05	CLI-DD-01	8572485		15.48		8704586		21.17		7494108		24.04	
06	FLUID#1	8504566		15.47		8690965		21.18		6790386		24.03	
07	AQ1SS-101	9337790		15.50		9671817		21.17		7648738		24.03	
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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

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

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0195 EPA SAMPLE NO.

SBLK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NFESC

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DD-01

Matrix: (soil/water) WATER Lab Sample ID: N7C41858C

Sample wt/vol: 400 (g/mL) ML Lab File ID: B5209

Level: (low/med) LOW Date Received: 12/03/94

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/15/94

Concentrated Extract Volume: 4000 (uL) Date Analyzed: 12/16/94

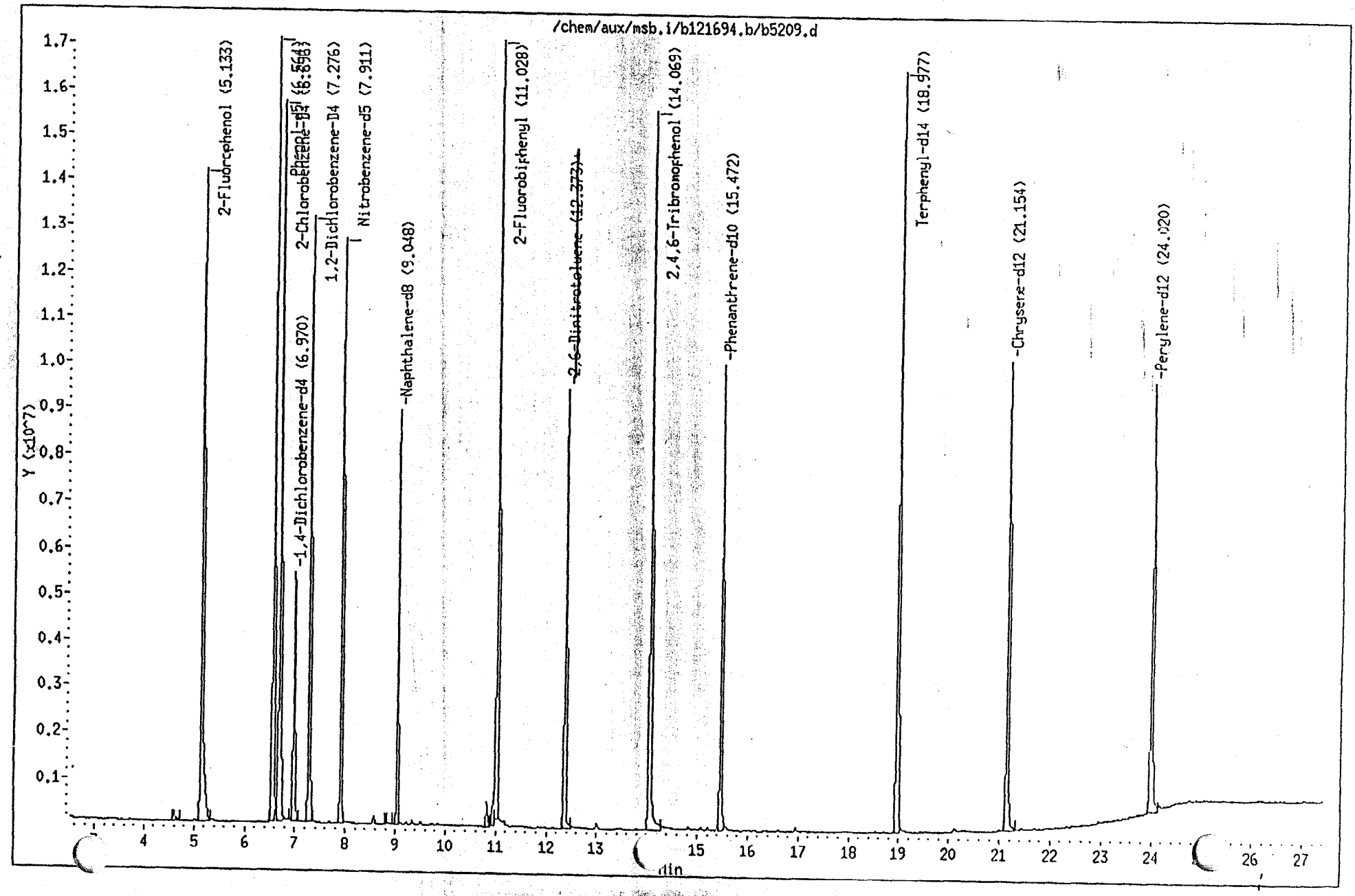
Injection Volume: 2.00 (uL) Dilution Factor: 1.0 20

GPC Cleanup: (Y/N) N pH: 7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	100	U
118-74-1	Hexachlorobenzene	100	U
67-72-1	Hexachloroethane	100	U
87-68-3	Hexachlorobutadiene	100	U
95-48-7	2-Methylphenol	100	U
106-44-5	4-Methylphenol	100	U
98-95-3	Nitrobenzene	100	U
87-86-5	Pentachlorophenol	100	U
110-86-1	Pyridine	100	U
95-95-4	2,4,5-Trichlorophenol	100	U
88-06-2	2,4,6-Trichlorophenol	100	U

Data File: /chem/aux/msb.i/b121694.b/b5209.d
Date : 16-DEC-94 10:18
Instrument : msb.i
Sample ID : sblk01
Column phase : J&W DB-5
Volume Injected (uL) : 2.0

Column diameter : 0.25



Data File: /chem/aux/msb.i/b121694.b/b5209.d
Report Date: 19-Dec-1994 07:10

Analytical Services Corp.

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/aux/msb.i/b121694.b/b5209.d
Lab. Id. :
Quant Type: ISTD
Inj Date : 16-DEC-94 10:18
Autotune Date: (
Operator : Tom
Inst ID: msb.i
Smp Info : method blank
Misc Info : n7c41858c,n7c41858,m1,2,1
Comment :
Method : /chem/aux/msb.i/b121694.b/bnaclpb.m
Meth Date : 16-Dec-1994 11:21 tom
Cal Date : 16-DEC-94 08:16
Cal File: b5208.d
Als bottle: 4
Dil Factor: 1.000
Target Version: Target 3.00
Integrator: HP RTE
Compound Sublist: all.sub
Sample Matrix: WATER

12-19-94

	Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
	2-Fluorophenol	112.00	5.133	(0.736)	8799733	212	106 (AR)
$	4 Phenol-d5	99.00	6.564	(0.942)	11359559	208	104 (AR)
$	7 2-Chlorobenzene-D4	132.00	6.696	(0.961)	9248188	205	103 (AR)
*	10 1,4-Dichlorobenzene-d4	152.00	6.981	(1.000)	1825680	40.0	
$	12 1,2-Dichlorobenzene-D4	152.00	7.276	(1.044)	4127534	135	67.7 (AR)
$	19 Nitrobenzene-d5	82.00	7.911	(0.874)	7775123	148	74.0 (R)
*	27 Naphthalene-d8	136.00	9.048	(1.000)	6555504	40.0	
$	37 2-Fluorobiphenyl	172.00	11.028	(0.891)	12619078	135	67.7 (R)
	41 2,6-Dinitrotoluene	165.00	12.373	(1.000)	586913	21.0	10.5 (Q)
*	44 Acenaphthene-d10	164.00	12.373	(1.000)	4325519	40.0	
$	56 2,4,6-Tribromophenol	330.00	14.069	(1.137)	4779800	245	122 (AR)
*	60 Phenanthrene-d10	188.00	15.472	(1.000)	7912495	40.0	
$	68 Terphenyl-d14	244.00	18.977	(0.897)	14244792	97.5	48.8
*	71 Chrysene-d12	240.00	21.154	(1.000)	8420408	40.0	
*	79 Perylene-d12	264.00	24.020	(1.000)	7031202	40.0	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0198 EPA SAMPLE NO.

A01SS-101

Lab Name: ANALYTICAL SERVICES CORP. Contract: NFESC

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DD-01

Matrix: (soil/water) WATER Lab Sample ID: JN5813C

Sample wt/vol: 400 (g/mL) ML Lab File ID: B5213

Level: (low/med) LOW Date Received: 12/03/94

% Moisture: ~~26~~ decanted: (Y/N) Date Extracted: 12/15/94

Concentrated Extract Volume: 4000 (uL) Date Analyzed: 12/16/94

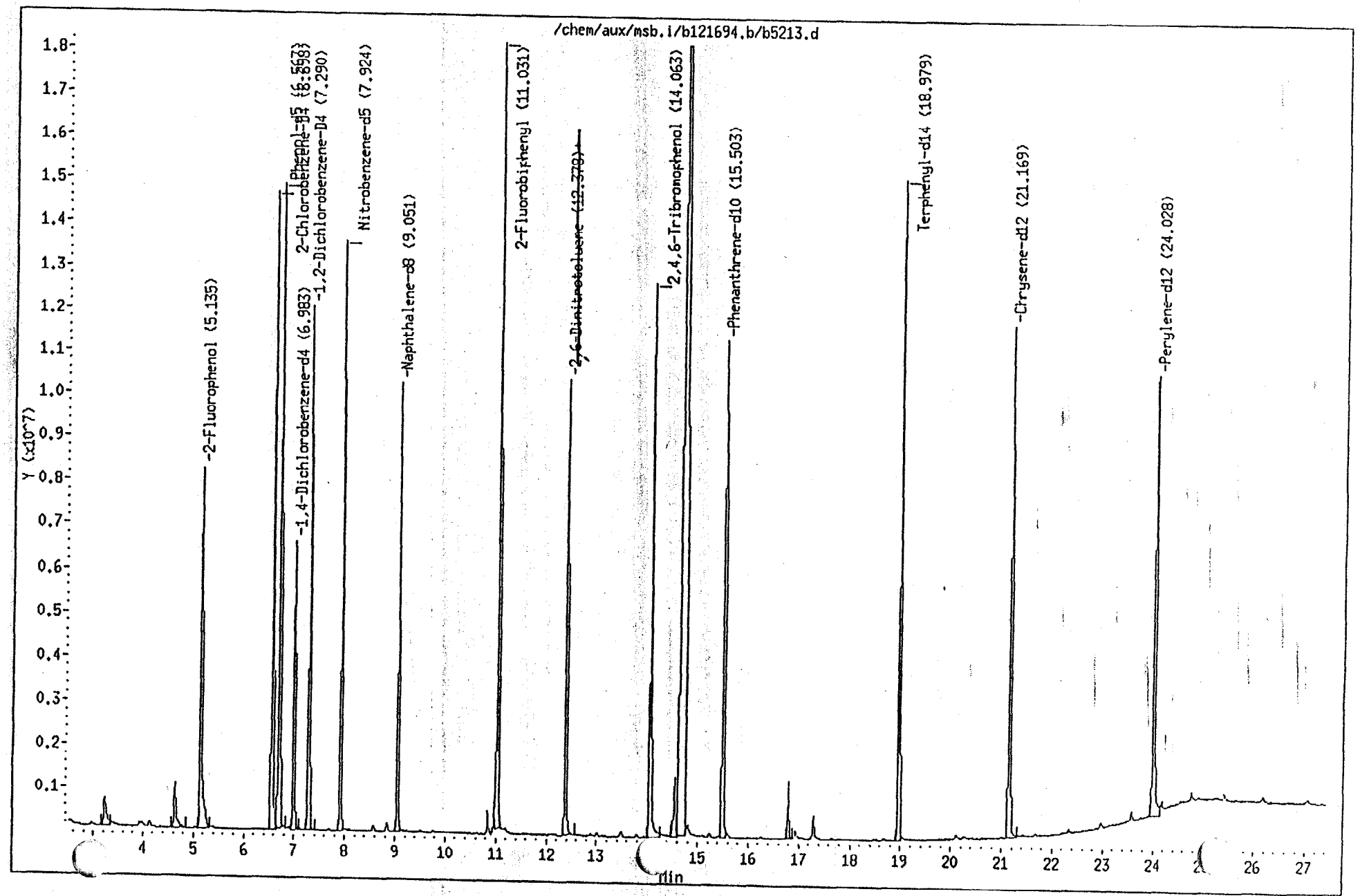
Injection Volume: 2.00 (uL) Dilution Factor: ~~1.0~~ 20

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	100	U
118-74-1	Hexachlorobenzene	100	U
67-72-1	Hexachloroethane	100	U
87-68-3	Hexachlorobutadiene	100	U
95-48-7	2-Methylphenol	100	U
106-44-5	4-Methylphenol	100	U
98-95-3	Nitrobenzene	100	U
87-86-5	Pentachlorophenol	100	U
110-86-1	Pyridine	100	U
95-95-4	2,4,5-Trichlorophenol	100	U
88-06-2	2,4,6-Trichlorophenol	100	U

Data File: /chem/aux/msb.i/b121694.b/b5213.d
Date : 16-DEC-94 12:44
Instrument : msb.i
Sample ID : a01ss-101
Column phase : J&W DB-5
Volume Injected (uL) : 2.0

Column diameter : 0.25



Analytical Services Corp.

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/aux/msb.i/b121694.b/b5213.d
Lab. Id. :
Quant Type: ISTD
Inj Date : 16-DEC-94 12:44
Autotune Date: {
Operator : Tom
Inst ID: msb.i
Smp Info : 15629n a01ss-101
Misc Info : jn5813c,n7c41858,m1,2,1
Comment :
Method : /chem/aux/msb.i/b121694.b/bnaclpb.m
Meth Date : 16-Dec-1994 11:21 tom
Cal Date : 16-DEC-94 08:16
Cal File: b5208.d
Als bottle: 8
Dil Factor: 1.000
Target Version: Target 3.00
Integrator: HP RTE
Compound Sublist: all.sub
Sample Matrix: WATER

TSC 12-19-94

		Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
	3	2-Fluorophenol	112.00	5.135	(0.735)	5075148	104	52.0
	4	Phenol-d5	99.00	6.567	(0.940)	9350748	146	72.9
S	7	2-Chlorobenzene-D4	132.00	6.698	(0.959)	8166307	154	77.1(AR)
*	10	1,4-Dichlorobenzene-d4	152.00	6.983	(1.000)	2145966	40.0	
S	12	1,2-Dichlorobenzene-D4	152.00	7.290	(1.044)	3837011	107	53.5(AR)
S	19	Nitrobenzene-d5	82.00	7.924	(0.875)	7485079	126	62.8(R)
*	27	Naphthalene-d8	136.00	9.051	(1.000)	7444031	40.0	
S	37	2-Fluorobiphenyl	172.00	11.031	(0.891)	12707027	119	59.6(R)
	41	2,6-Dinitrotoluene	165.00	12.378	(1.000)	679814	21.3	~~10.6~~(Q)
*	44	Acenaphthene-d10	164.00	12.378	(1.000)	4943953	40.0	
S	56	2,4,6-Tribromophenol	330.00	14.063	(1.136)	3565378	160	79.8
*	60	Phenanthrene-d10	188.00	15.503	(1.000)	9237790	40.0	
S	68	Terphenyl-d14	244.00	18.979	(0.897)	12158973	72.5	36.2
*	71	Chrysene-d12	240.00	21.169	(1.000)	9671817	40.0	
*	79	Perylene-d12	264.00	24.028	(1.000)	7648738	40.0	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0201 EPA SAMPLE NO.

A01SS-101MS

Lab Name: ANALYTICAL SERVICES CORP. Contract: NFESC

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DD-01

Matrix: (soil/water) WATER Lab Sample ID: JN5813CS

Sample wt/vol: 200 (g/mL) ML Lab File ID: B5211

Level: (low/med) LOW Date Received: 12/03/94

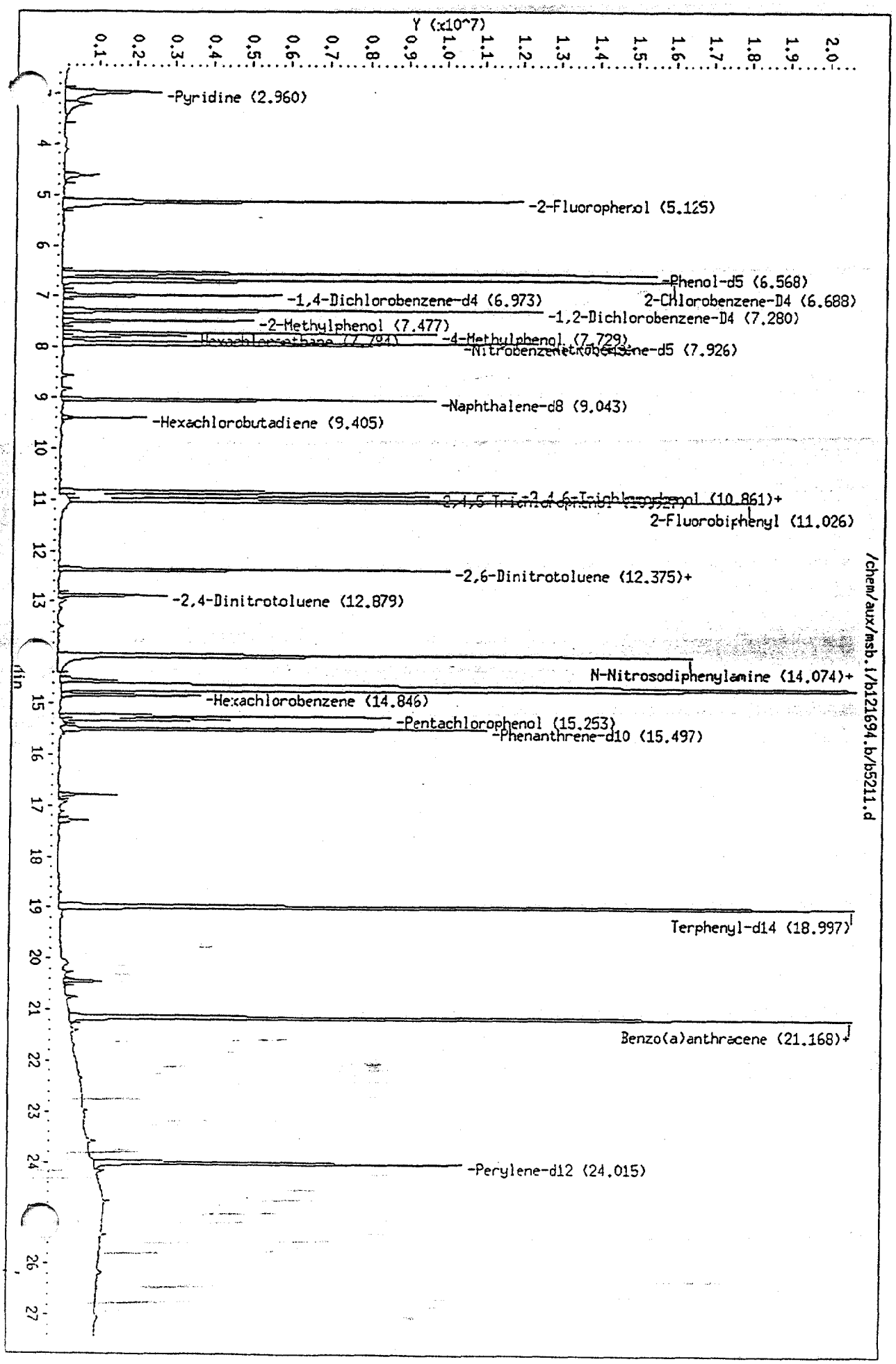
% Moisture: 26 decanted: (Y/N) N Date Extracted: 12/15/94

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 12/16/94

Injection Volume: 2.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	120	
118-74-1	Hexachlorobenzene	110	
67-72-1	Hexachloroethane	160	
87-68-3	Hexachlorobutadiene	78	J
95-48-7	2-Methylphenol	180	
106-44-5	4-Methylphenol	390	
98-95-3	Nitrobenzene	360	
87-86-5	Pentachlorophenol	800	
110-86-1	Pyridine	440	
95-95-4	2,4,5-Trichlorophenol	460	
88-06-2	2,4,6-Trichlorophenol	540	



Data File: /chem/aux/msb.1/b121694.b/b5211.d
Date : 16-DEC-94 11:30
Instrument : msb.1
Sample ID : a01ss-101 ms
Column phase : J&W DB-5
Volume Injected (uL) : 2.0

Column diameter : 0.25

Data File: /chem/aux/msb.i/b121694.b/b5211.d
Report Date: 19-Dec-1994 07:11

Analytical Services Corp.

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/aux/msb.i/b121694.b/b5211.d
Lab. Id. :
Quant Type: ISTD
Inj Date : 16-DEC-94 11:30
Autotune Date: {
Operator : Tom
Inst ID: msb.i
Smp Info : 15629n a01ss-101 ms
Misc Info : jn5813cs,n7c41858,m1,2,1
Comment :
Method : /chem/aux/msb.i/b121694.b/bnaclpb.m
Meth Date : 16-Dec-1994 11:21 tom
Cal Date : 16-DEC-94 08:16
Cal File: b5208.d
Als bottle: 6
Dil Factor: 1.000
Target Version: Target 3.00
Integrator: HP RTE
Compound Sublist: all.sub
Sample Matrix: WATER

TBC 12-19-94

	Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
	Pyridine	79.00	2.960	(0.424)	3942797	87.4	43.7
$	3 2-Fluorophenol	112.00	5.125	(0.735)	8508042	190	95.2(AR)
$	4 Phenol-d5	99.00	6.568	(0.942)	11135489	190	94.9(AR)
$	7 2-Chlorobenzene-D4	132.00	6.688	(0.959)	9293245	192	95.9(AR)
*	10 1,4-Dichlorobenzene-d4	152.00	6.973	(1.000)	1962896	40.0	
$	12 1,2-Dichlorobenzene-D4	152.00	7.280	(1.044)	3977201	121	60.6(AR)
	14 2-Methylphenol	108.00	7.477	(1.072)	1863244	36.2	18.1
	16 4-Methylphenol	108.00	7.729	(1.108)	3789983	78.8	39.4
	18 Hexachloroethane	117.00	7.784	(1.116)	831102	32.9	16.4
$	19 Nitrobenzene-d5	82.00	7.926	(0.876)	7944135	140	69.8(R)
	20 Nitrobenzene	77.00	7.948	(0.879)	3979362	72.0	36.0
*	27 Naphthalene-d8	136.00	9.043	(1.000)	7105659	40.0	
	30 Hexachlorobutadiene	225.00	9.405	(1.040)	436437	15.6	7.83(a)
	35 2,4,6-Trichlorophenol	196.00	10.861	(0.878)	3665730	108	53.8
	36 2,4,5-Trichlorophenol	196.00	10.927	(0.883)	3582937	91.4	45.7
$	37 2-Fluorobiphenyl	172.00	11.037	(0.892)	12937975	130	65.3(R)
	38 2-Chloronaphthalene	162.00	10.861	(0.878)	416390	4.55	2.27(aQ)
	41 2,6-Dinitrotoluene	165.00	12.375	(1.000)	643360	21.6	10.8(Q)
*	44 Acenaphthene-d10	164.00	12.375	(1.000)	4599399	40.0	
	49 2,4-Dinitrotoluene	165.00	12.890	(1.042)	1047137	24.4	12.2
	55 N-Nitrosodiphenylamine	169.00	14.074	(0.908)	171872	2.00	1.00(aQ)
$	56 2,4,6-Tribromophenol	330.00	14.074	(1.137)	5866879	282	141(AR)
	58 Hexachlorobenzene	284.00	14.846	(0.958)	1206549	22.6	11.3
	59 Pentachlorophenol	266.00	15.253	(0.984)	2289491	159	79.7
*	60 Phenanthrene-d10	188.00	15.497	(1.000)	8920558	40.0	
$	Terphenyl-d14	244.00	18.997	(0.898)	21376617	187	93.4(AR)
	Benzo(a)anthracene	228.00	21.168	(1.001)	2473074	17.5	8.74(aQ)
*	71 Chrysene-d12	240.00	21.156	(1.000)	6753352	40.0	
	73 Chrysene	228.00	21.168	(1.001)	2473074	17.9	8.95(aQ)

Data File: /chem/aux/msb.i/b121694.b/b5211.d
Report Date: 19-Dec-1994 07:11

Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
* 79 Perylene-d12	264.00	24.015	(1.000)	7245534	40.0	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0205 EPA SAMPLE NO.

A01SS-101MSD

Lab Name: ANALYTICAL SERVICES CORP. Contract: NFESC

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DD-01

Matrix: (soil/water) WATER Lab Sample ID: JN5813CR

Sample wt/vol: 200 (g/mL) ML Lab File ID: B5212

Level: (low/med) LOW Date Received: 12/03/94

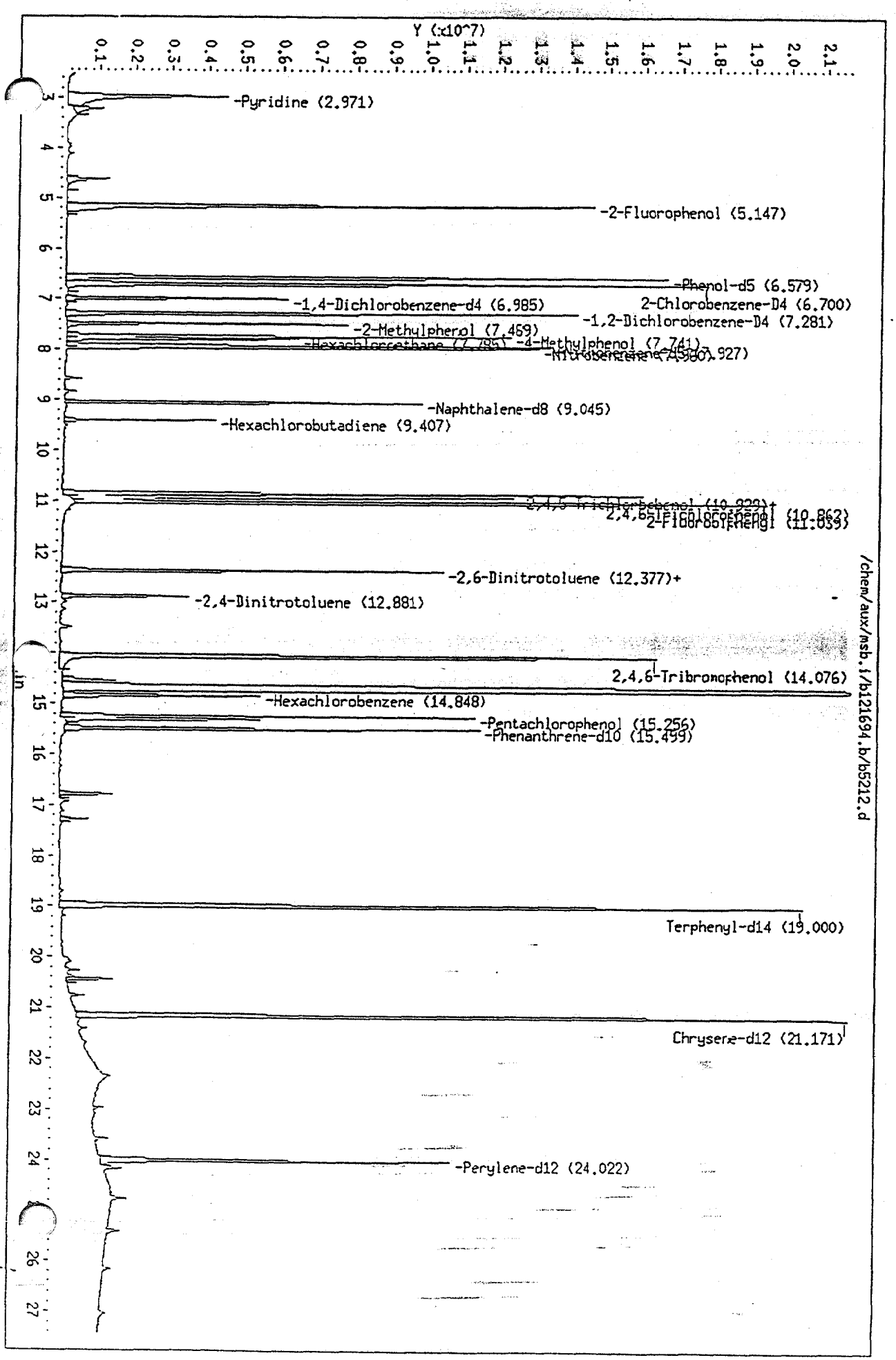
% Moisture: ~~26~~ decanted: (Y/N) N Date Extracted: 12/15/94

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 12/16/94

Injection Volume: 2.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	160	
118-74-1	Hexachlorobenzene	160	
67-72-1	Hexachloroethane	290	
87-68-3	Hexachlorobutadiene	140	
95-48-7	2-Methylphenol	230	
106-44-5	4-Methylphenol	520	
98-95-3	Nitrobenzene	480	
87-86-5	Pentachlorophenol	970	
110-86-1	Pyridine	630	
95-95-4	2,4,5-Trichlorophenol	570	
88-06-2	2,4,6-Trichlorophenol	690	



Data File: /chem/aux/msb.i/b121694.b/b5212.d
Date : 16-DEC-94 12:07
Instrument : msb.i
Sample ID : a01ss-101 msd
Column phase : J&W DB-5
Volume Injected (uL) : 2.0

Column diameter : 0.25

Data File: /chem/aux/msb.i/b121694.b/b5212.d
Report Date: 19-Dec-1994 07:11

Analytical Services Corp.

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/aux/msb.i/b121694.b/b5212.d
Lab. Id. :
Quant Type: ISTD
Inj Date : 16-DEC-94 12:07
Autotune Date: (
Operator : Tom
Inst ID: msb.i
Smp Info : 15629n a01ss-101 msd
Misc Info : jn5813cr,n7c41858,m1,2,1
Comment :
Method : /chem/aux/msb.i/b121694.b/bnaclpb.m
Meth Date : 16-Dec-1994 11:21 tom
Cal Date : 16-DEC-94 08:16
Cal File: b5208.d
Als bottle: 7
Dil Factor: 1.000
Target Version: Target 3.00
Integrator: HP RTE
Compound Sublist: all.sub
Sample Matrix: WATER

FSC 12-19-94

		Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
		Pyridine	79.00	2.971	(0.425)	5996493	125	62.5(A)
$	3	2-Fluorophenol	112.00	5.147	(0.737)	8985737	189	94.6(AR)
$	4	Phenol-d5	99.00	6.579	(0.942)	12252081	196	98.2(AR)
$	7	2-Chlorobenzene-D4	132.00	6.700	(0.959)	9651847	187	93.7(AR)
*	10	1,4-Dichlorobenzene-d4	152.00	6.985	(1.000)	2087134	40.0	
$	12	1,2-Dichlorobenzene-D4	152.00	7.281	(1.042)	4415731	127	63.3(AR)
	14	2-Methylphenol	108.00	7.489	(1.072)	2556961	46.7	23.4
	16	4-Methylphenol	108.00	7.741	(1.108)	5294021	103	51.7
	18	Hexachloroethane	117.00	7.785	(1.115)	1537290	57.2	28.6
$	19	Nitrobenzene-d5	82.00	7.927	(0.876)	8662821	148	74.0(R)
	20	Nitrobenzene	77.00	7.960	(0.880)	5490889	96.7	48.4
*	27	Naphthalene-d8	136.00	9.045	(1.000)	7301118	40.0	
	30	Hexachlorobutadiene	225.00	9.407	(1.040)	797532	27.8	13.9
	35	2,4,6-Trichlorophenol	196.00	10.862	(0.878)	4875847	138	69.0
	36	2,4,5-Trichlorophenol	196.00	10.929	(0.883)	4608818	113	56.6
$	37	2-Fluorobiphenyl	172.00	11.039	(0.892)	13857273	135	67.3(R)
	38	2-Chloronaphthalene	162.00	10.929	(0.883)	194357	2.04	1.02(aQ)
	41	2,6-Dinitrotoluene	165.00	12.377	(1.000)	672152	21.8	10.9(Q)
*	44	Acenaphthene-d10	164.00	12.377	(1.000)	4775502	40.0	
	49	2,4-Dinitrotoluene	165.00	12.892	(1.042)	1407353	31.6	15.8
$	56	2,4,6-Tribromophenol	330.00	14.076	(1.137)	5700909	264	132(AR)
	58	Hexachlorobenzene	284.00	14.848	(0.958)	1741460	32.0	16.0
	59	Pentachlorophenol	266.00	15.256	(0.984)	2844217	195	97.3(A)
*	60	Phenanthrene-d10	188.00	15.499	(1.000)	9075312	40.0	
$	68	Terphenyl-d14	244.00	19.000	(0.898)	21260343	201	100(AR)
*		Chrysene-d12	240.00	21.160	(1.000)	6092624	40.0	
*	79	Perylene-d12	264.00	24.022	(1.000)	7294329	40.0	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0209

EPA SAMPLE NO.

SSPK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NFESC

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DD-01

Matrix: (soil/water) WATER Lab Sample ID: N7C41858CS

Sample wt/vol: 400 (g/mL) ML Lab File ID: B5210

Level: (low/med) LOW Date Received: 12/03/94

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/15/94

Concentrated Extract Volume: 4000 (uL) Date Analyzed: 12/16/94

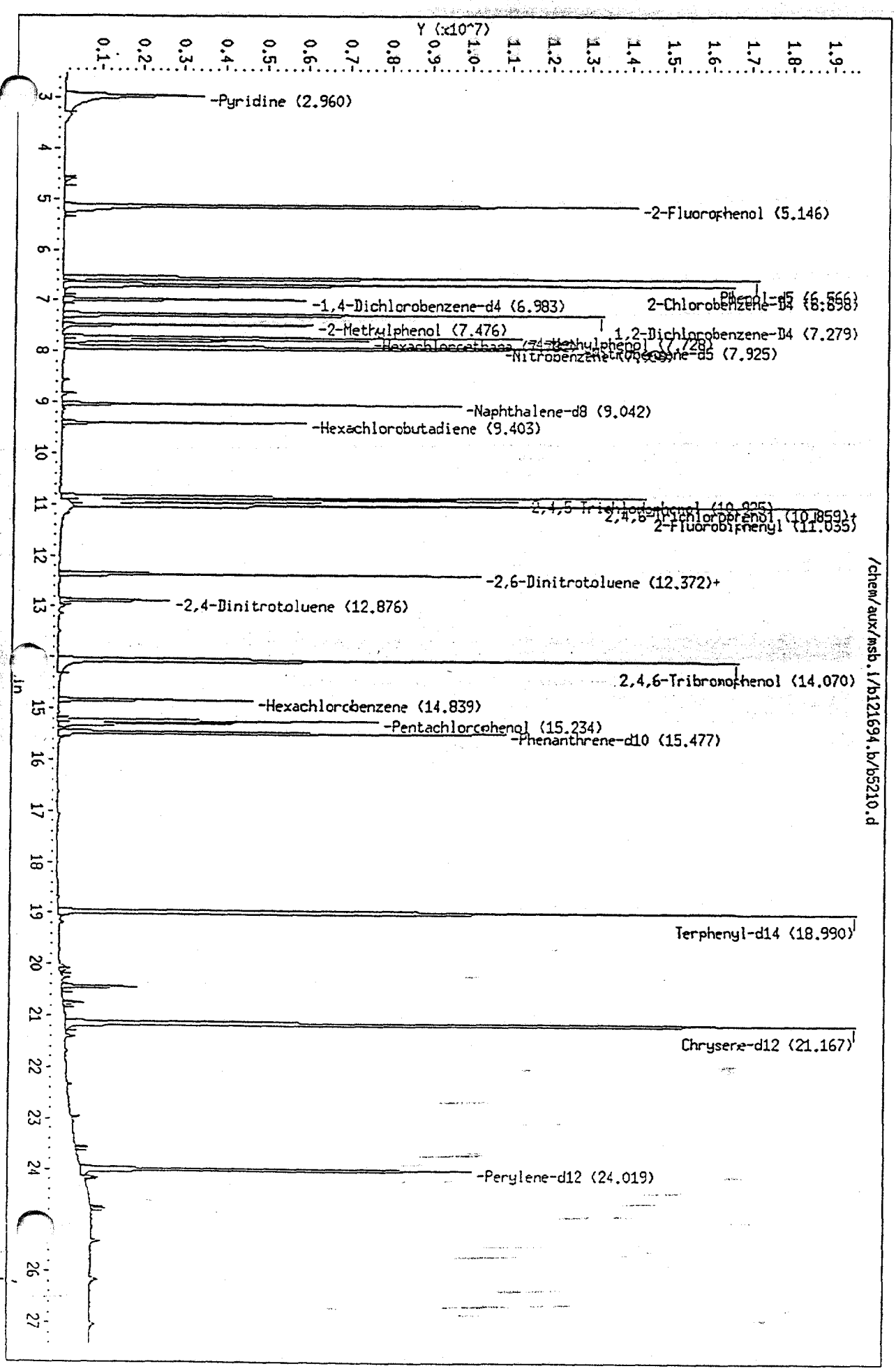
Injection Volume: 2.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	120	
118-74-1	Hexachlorobenzene	150	
67-72-1	Hexachloroethane	360	
87-68-3	Hexachlorobutadiene	210	
95-48-7	2-Methylphenol	210	
106-44-5	4-Methylphenol	460	
98-95-3	Nitrobenzene	430	
87-86-5	Pentachlorophenol	720	
110-86-1	Pyridine	570	
95-95-4	2,4,5-Trichlorophenol	490	
88-06-2	2,4,6-Trichlorophenol	620	

Data File: /chem/aux/msb.i/b121694.b/b5210.d
Date : 16-DEC-94 10:54
Instrument : msb.i
Sample ID : sspk01
Column phase : J&W DB-5
Volume Injected (uL) : 2.0

Column diameter : 0.25



Data File: /chem/aux/msb.i/b121694.b/b5210.d
Report Date: 19-Dec-1994 07:10

Analytical Services Corp.

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/aux/msb.i/b121694.b/b5210.d
Lab. Id. :
Quant Type: ISTD
Inj Date : 16-DEC-94 10:54
Autotune Date: (
Operator : Tom
Inst ID: msb.i
Smp Info : method blank spk
Misc Info : n7c41858cs,n7c41858,m1,2,1
Comment :
Method : /chem/aux/msb.i/b121694.b/bnaclpb.m
Meth Date : 16-Dec-1994 11:21 tom
Cal Date : 16-DEC-94 08:16
Cal File: b5208.d
Als bottle: 5
Dil Factor: 1.000
Target Version: Target 3.00
Integrator: HP RTE
Compound Sublist: all.sub
Sample Matrix: WATER

DC 12-19-94

		Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
		Pyridine	79.00	2.960	(0.424)	5156925	114	57.2(A)
$	3	2-Fluorophenol	112.00	5.146	(0.737)	8726443	196	97.8(AR)
$	4	Phenol-d5	99.00	6.566	(0.940)	11830465	202	101(AR)
$	7	2-Chlorobenzene-D4	132.00	6.698	(0.959)	9252334	191	95.6(AR)
*	10	1,4-Dichlorobenzene-d4	152.00	6.983	(1.000)	1961123	40.0	
$	12	1,2-Dichlorobenzene-D4	152.00	7.279	(1.042)	4064895	124	62.0(AR)
	14	2-Methylphenol	108.00	7.487	(1.072)	2136539	41.6	20.8
	16	4-Methylphenol	108.00	7.728	(1.107)	4427910	92.1	46.1
	18	Hexachloroethane	117.00	7.782	(1.115)	1834859	72.7	36.4
$	19	Nitrobenzene-d5	82.00	7.925	(0.876)	8205361	143	71.4(R)
	20	Nitrobenzene	77.00	7.958	(0.880)	4776724	85.7	42.8
*	27	Naphthalene-d8	136.00	9.042	(1.000)	7170426	40.0	
	30	Hexachlorobutadiene	225.00	9.403	(1.040)	1180294	42.0	21.0
	35	2,4,6-Trichlorophenol	196.00	10.859	(0.878)	4220112	123	61.5
	36	2,4,5-Trichlorophenol	196.00	10.925	(0.883)	3908265	98.9	49.4
$	37	2-Fluorobiphenyl	172.00	11.035	(0.892)	13251796	132	66.3(R)
	38	2-Chloronaphthalene	162.00	10.859	(0.878)	492340	5.33	2.66(aQ)
	41	2,6-Dinitrotoluene	165.00	12.372	(1.000)	645027	21.5	10.8(Q)
*	44	Acenaphthene-d10	164.00	12.372	(1.000)	4639514	40.0	
	49	2,4-Dinitrotoluene	165.00	12.887	(1.042)	1028574	23.8	11.9
$	56	2,4,6-Tribromophenol	330.00	14.070	(1.137)	5506254	263	131(AR)
	58	Hexachlorobenzene	284.00	14.839	(0.959)	1524282	29.9	15.0
	59	Pentachlorophenol	266.00	15.245	(0.985)	1957291	143	71.5
*	60	Phenanthrene-d10	188.00	15.477	(1.000)	8495869	40.0	
$	68	Terphenyl-d14	244.00	18.990	(0.898)	19801887	184	92.3(AR)
*	78	Chrysene-d12	240.00	21.156	(1.000)	6184357	40.0	
*	79	Perylene-d12	264.00	24.019	(1.000)	7489030	40.0	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

0213 EPA SAMPLE NO.

CLJ-DD-01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NCRSA

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: CLJ-DD-01

Matrix: (soil/water) SOIL Lab Sample ID: JN6023P

Sample wt/vol: 30.4 (g/mL) G Lab File ID: ^Z7946

% Moisture: 4 decanted: (Y/N) N Date Received: 12/09/94

Extraction: (SepF/Cont/Sonc) 3540 Date Extracted: 12/12/94

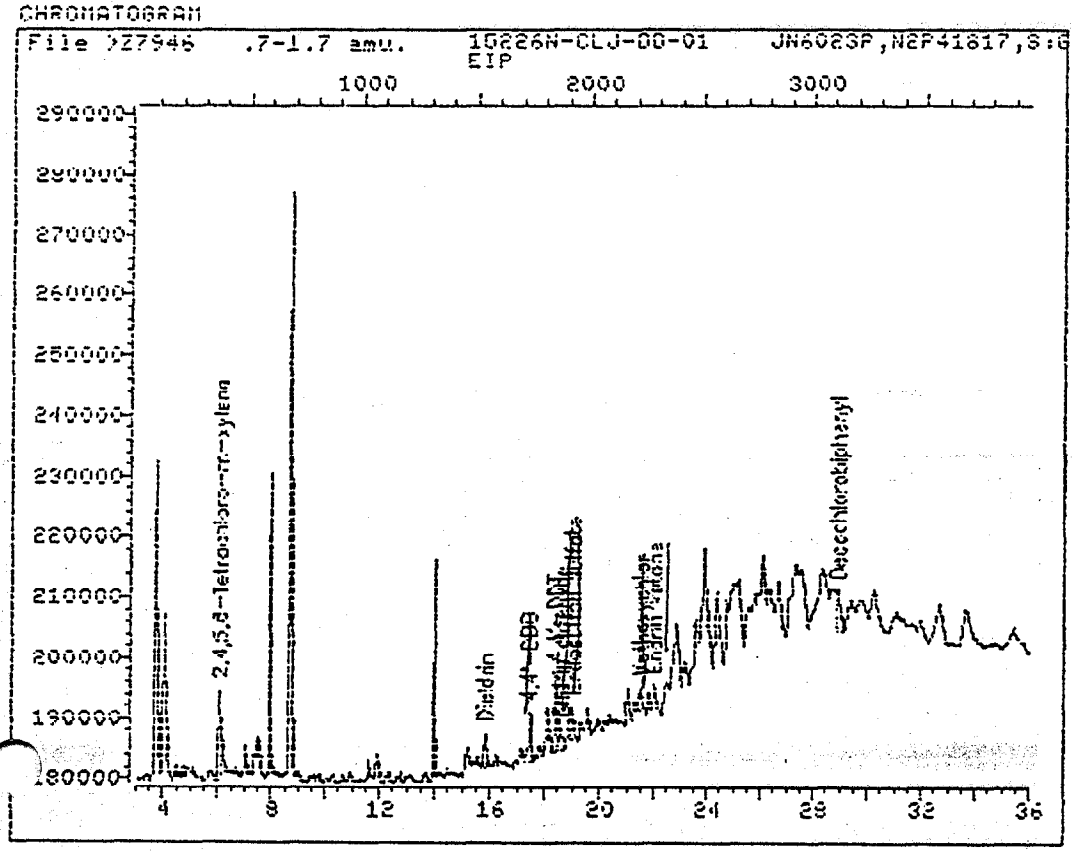
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/21/94

Injection Volume: 1.0 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	69	U
319-85-7	beta-BHC	69	U
319-86-8	delta-BHC	69	U
58-89-9	gamma-BHC (Lindane)	69	U
76-44-8	Heptachlor	69	U
309-00-2	Aldrin	69	U
1024-57-3	Heptachlor epoxide	69	U
959-98-8	Endosulfan I	69	U
60-57-1	Dieldrin	51	J
72-55-9	4,4'-DDE	69	U
72-20-8	Endrin	69	U
33213-65-9	Endosulfan II	69	U
72-54-8	4,4'-DDD	69	U
1031-07-8	Endosulfan sulfate	69	U
50-29-3	4,4'-DDT	130	
72-43-5	Methoxychlor	69	U
53494-70-5	Endrin ketone	69	U
7421-93-4	Endrin aldehyde	69	U
5103-71-9	alpha-Chlordane	69	U
5103-74-2	gamma-Chlordane	69	U
8001-35-2	Toxaphene	1400	U

CHROMATOGRAM



Data File: >Z7946::DD Quant Output File: ^Z7946::DD
Name: 10226N-CLJ-DD-01 Instrument ID: Z
Misc: JN6023P,N2P41817,S:G2,29.09,10:20,

Id File: IZPN04::D5
Title: PESTICIDES DB-608 BY GC B2 (FRONT)
Last Calibration: 941104 15:06 Last Qcal Time: <none>

Operator ID: USER2
Quant Time : 941221 16:41
Injected at: 941221 16:00

QUANT REPORT Page 1

Operator ID: USER2 Quant Rev: 7 Quant Time: 941221 16:41
Output File: ^Z7946::D0 Injected at: 941221 16:00
Data File: >Z7946::D0 Dilution Factor: 1.00000
Name: 15226N-CLJ-DD-01 Instrument ID: Z
Misc: JN6023P,N2P41817,S:G2,29.09,10:20,

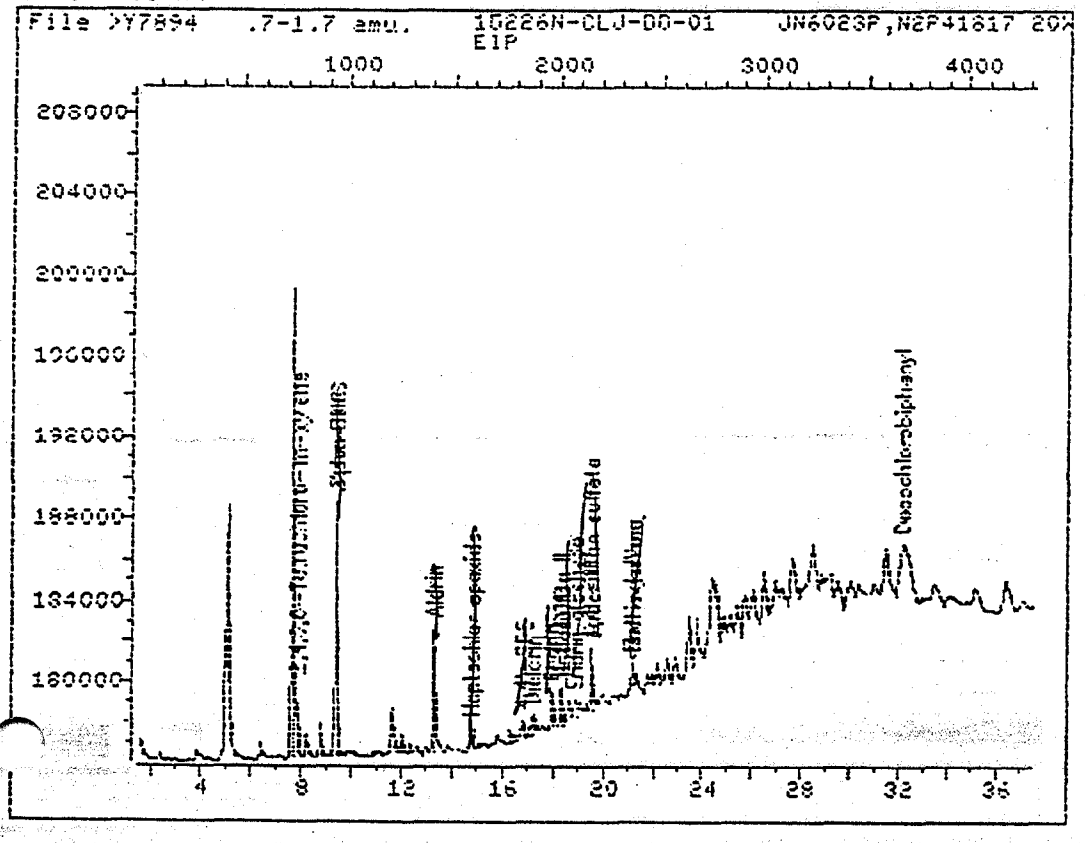
ID File: IZPN04::D5
Title: PESTICIDES 08-608 BY GC B2 (FRONT)
Last Calibration: 941104 15:06 Last Qcal Time: <none>

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#2,4,5,6-Tetrachloro-m-xylene	6.03	365	86240	.0165	ug/ml	100
14)	#Dieldrin	15.77	1534	36223	.00743	ug/ml	100
16)	#4,4'-DDD	17.39	1728	48525	.0142	ug/ml	100
18)	#4,4'-DDT	18.35	1843	66783	.0182	ug/ml	100
19)	#Endrin aldehyde	18.55	1867	26383	.00714	ug/ml	100
20)	#Endosulfan sulfate	18.98	1919	30886	.00801	ug/ml	100
21)	#Methoxychlor	21.46	2216	23216	.00972	ug/ml	100
22)	#Endrin ketone	21.95	2275	25478	.00553	ug/ml	100
23)	#Decachlorobiphenyl	28.88	3106	48320	.00793	ug/ml	100

Compound uses ESTD

AK
12/22/94

CHROMATOGRAM



Data File: >Y7894::DD
Name: 10226N-CLJ-DD-01
Misc: JN6023P,N2P41817 20X

Quant Output File: ^Y7894::DD
Instrument ID: Y

Id File: IYPN04::D5
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, B2R
Last Calibration: 941104 15:08

Last Qcal Time: <none>

Operator ID: USER2
Quant Time : 941221 17:25
Injected at: 941221 16:44

QUANT REPORT Page 1

Operator ID: USER2 Quant Rev: 7 Quant Time: 941221 17:25
Output File: ^Y7894::D0 Injected at: 941221 16:44
Data File: >Y7894::D0 Dilution Factor: 1.00000
Name: 15226N-CLJ-DD-01 Instrument ID: Y
Misc: JN6023P,N2P41817 20X

ID File: IYPN04::05
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, B2R
Last Calibration: 941104 15:08 Last Qcal Time: <none>

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#2,4,5,6-Tetrachloro-m-xylene	7.81	758	19245	.0131	ug/ml	100
2)	#Alpha-BHC	9.37	945	49888	~~.0245~~	~~ug/ml~~	~~100~~
3)	#Beta-BHC	9.37	945	49888	~~.0530~~	~~ug/ml~~	~~100~~
8)	#Aldrin	13.23	1409	29280	~~.0189~~	~~ug/ml~~	~~100~~
9)	#Heptachlor epoxide	14.74	1590	6528	~~.00422~~	~~ug/ml~~	~~100~~
13)	#4,4'-DDE	16.81	1838	6208	~~.00482~~	~~ug/ml~~	~~100~~
14)	#Dieldrin	17.17	1881	7455	.00533	ug/ml	100
15)	#Endrin	17.91	1970	7839	~~.00617~~	~~ug/ml~~	~~100~~
16)	#Endosulfan II	18.33	2021	9247	~~.00811~~	~~ug/ml~~	~~100~~
17)	#4,4'-DDD	18.33	2021	9247	~~.00811~~	~~ug/ml~~	~~100~~
18)	#Endrin aldehyde	18.86	2084	6240	~~.00546~~	~~ug/ml~~	~~100~~
19)	#4,4'-DDT	19.47	2158	16224	.0142	ug/ml	100
20)	#Endosulfan sulfate	19.47	2158	16224	~~.0142~~	~~ug/ml~~	~~100~~
21)	#Endrin ketone	21.13	2356	6016	~~.00407~~	~~ug/ml~~	~~100~~
22)	#Methoxychlor	21.13	2356	6016	~~.00373~~	~~ug/ml~~	~~100~~
23)	#Decachlorobiphenyl	32.13	3676	6093	.00296	ug/ml	100

Compound uses ESTD

QC
12/22/94

SOIL PESTICIDE SURROGATE RECOVERY

0218

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-DD-01

GC Column(1): DB 5 ID: 0.53 (mm) GC Column(2): DB608 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK01	74		76				0
02	PSPK01	71		75				0
03	A01SS-18BMS	86		109				0
04	A01SS-18BMSD	84		101				0
~~05~~	~~A02SS-74B~~	~~76~~		~~102~~				~~0~~
~~06~~	~~A02SS-83B~~	~~76~~		~~104~~				~~0~~
~~07~~	~~A02SS-98B~~	~~52~~		~~91~~				~~0~~
~~08~~	~~A02SS-107C~~	~~101~~		~~93~~				~~0~~
~~09~~	~~A02SS-108A~~	~~83~~		~~100~~				~~0~~
~~10~~	~~A01SS-103A~~	~~83~~		~~101~~				~~0~~
~~11~~	~~A01SS-26B~~	~~76~~		~~98~~				~~0~~
~~12~~	~~A01SS-106~~	~~155 *~~		~~101~~				~~1~~
~~13~~	~~A05SS-102~~	~~87~~		~~76~~				~~0~~
14	A01SS-18B	62		100				0
~~15~~	~~A01SS-105~~	~~140~~		~~107~~				~~0~~
~~16~~	~~A01SS-104~~	~~204 *~~		~~108~~				~~1~~
17	CLJ-DD-01	132		57				0

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D System Monitoring compound diluted out

3F
SOIL PESTICIDE MATRIX SPIKE RECOVERY

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: _____ Case No.: 15226N SAS No.: _____ SDG No.: CLJ-DD-01

Matrix Spike - EPA Sample No.: A01SS-18B

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Alpha-BHC	210	0	180	86	30-130
Beta-BHC	180	0	210	117	30-130
Gamma-BHC	210	0	210	100	46-127
Lindane	210	0	210	100	30-130
Delta-BHC	210	0	160	76	30-130
Heptachlor	170	0	200	118	35-130
Aldrin	190	0	200	105	34-132
Heptachlor epoxide	180	0	250	139 *	30-130
gamma-Chlordane	180	0	210	117	30-130
alpha-Chlordane	170	0	230	135 *	30-130
Endosulfan I	230	0	230	100	30-130
4,4'-DDE	200	0	210	105	30-130
Dieldrin	200	0	210	105	31-134
Endrin	200	0	210	105	42-139
Endosulfan II	200	0	220	110	30-130
4,4'-DDD	210	0	220	105	30-130
Endrin aldehyde	180	0	130	72	30-130
4,4'-DDT	220	0	190	86	23-134
Endosulfan sulfate	200	0	190	95	30-130
Endrin ketone	200	0	190	95	30-130
Methoxychlor	200	0	210	105	30-130
Chlordane	350	0	440	126	30-130

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

* Values outside of QC limits

Spike Recovery: 2 out of 22 outside limits

COMMENTS: _____

3F

SOIL PESTICIDE MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: _____ Case No.: 15226N SAS No.: _____ SDG No.: CLJ-DD-01

Matrix Spike - EPA Sample No.: A01SS-18B

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Alpha-BHC	210	180	86	.8	20	30-130
Beta-BHC	180	190	106	12	20	30-130
Gamma-BHC	210	200	95	6	50	46-127
Lindane	210	200	95	6	20	30-130
Delta-BHC	210	160	76	.1	20	30-130
Heptachlor	170	190	112	8	31	35-130
Aldrin	190	200	105	1	43	34-132
Heptachlor epoxide	180	240	133 *	4	20	30-130
gamma-Chlordane	180	200	111	6	20	30-130
alpha-Chlordane	170	210	124	7	20	30-130
Endosulfan I	240	210	88	12	20	30-130
4,4'-DDE	210	200	95	8	20	30-130
Dieldrin	200	200	100	7	38	31-134
Endrin	210	200	95	8	45	42-139
Endosulfan II	200	180	90	19	20	30-130
4,4'-DDD	210	180	86	21 *	20	30-130
Endrin aldehyde	180	110	61	18	20	30-130
4,4'-DDT	230	160	70	20	50	23-134
Endosulfan sulfate	200	160	80	19	20	30-130
Endrin ketone	200	150	75	25 *	20	30-130
Methoxychlor	200	190	95	10	20	30-130
Chlordane	350	410	117	7	20	30-130

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

* Values outside of QC limits

RPD: 2 out of 22 outside limits
Spike Recovery: 1 out of 22 outside limits

COMMENTS: _____

3F
SOIL PESTICIDE BLANK SPIKE RECOVERY

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: _____ Case No.: 15226N SAS No.: _____ SDG No.: CLJ-DD-01

Matrix Spike - EPA Sample No.: PSPK01

COMPOUND	SPIKE ADDED (ug/Kg)	BLANK CONCENTRATION (ug/Kg)	BS CONCENTRATION (ug/Kg)	BS % REC #	QC LIMITS REC.
Alpha-BHC	180	0	140	78	30-130
Beta-BHC	150	0	140	93	30-130
Gamma-BHC	170	0	160	94	46-127
Lindane	170	0	160	94	30-130
Delta-BHC	180	0	130	72	30-130
Heptachlor	140	0	130	93	35-130
Aldrin	160	0	150	94	34-132
Heptachlor epoxide	150	0	150	100	30-130
gamma-Chlordane	150	0	150	100	30-130
alpha-Chlordane	140	0	150	107	30-130
Endosulfan I	200	0	150	75	30-130
4,4'-DDE	170	0	170	100	30-130
Dieldrin	160	0	160	100	31-134
Endrin	170	0	170	100	42-139
Endosulfan II	170	0	150	88	30-130
,4'-DDD	170	0	150	88	30-130
Endrin aldehyde	150	0	96	64	30-130
4,4'-DDT	190	0	140	74	23-134
Endosulfan sulfate	160	0	140	88	30-130
Endrin ketone	170	0	140	82	30-130
Methoxychlor	170	0	150	88	30-130
Chlordane	290	0	290	100	30-130

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

* Values outside of QC limits

Spike Recovery: 0 out of 22 outside limits

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

0222 EPA SAMPLE NO.

PBLK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: CLJ-DD-01

Lab File ID: ^Y7840 Lab Sample ID: N2P41817P

Instrument ID: Y Date Extracted: 2/13/ER

Matrix: (soil/water) SOIL Date Analyzed: 12/18/94

Level: (low/med) _____ Time Analyzed: 04:50

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	PSPK01	N2P41817PS	^Y7841	12/18/94
02	A01SS-18BMS	JN5853PS	^Y7842	12/18/94
03	A01SS-18BMSD	JN5853PR	^Y7843	12/18/94
~~04~~	~~A02SS-74B~~	~~JN6152P~~	~~^Y7844~~	~~12/19/94~~
~~05~~	~~A02SS-83B~~	~~JN6153P~~	~~^Y7845~~	~~12/19/94~~
~~06~~	~~A02SS-92B~~	~~JN6154P~~	~~^Z7910~~	~~12/19/94~~
~~07~~	~~A02SS-107S~~	~~JN6155P~~	~~^Z7911~~	~~12/19/94~~
~~08~~	~~A02SS-108A~~	~~JN6156P~~	~~^Z7912~~	~~12/19/94~~
~~09~~	~~A01SS-103A~~	~~JN5855P~~	~~^Z7913~~	~~12/19/94~~
~~10~~	~~A01SS-36B~~	~~JN5854P~~	~~^Z7914~~	~~12/19/94~~
~~11~~	~~A01SS-106~~	~~JN6027P~~	~~^Z7915~~	~~12/19/94~~
~~12~~	~~A05SS-102~~	~~JN5856P~~	~~^Z7916~~	~~12/19/94~~
13	A01SS-18B	JN5853P	^Z7917	12/19/94
~~14~~	~~A01SS-105~~	~~JN6026P~~	~~^Z7918~~	~~12/19/94~~
~~15~~	~~A01SS-104~~	~~JN6025P~~	~~^Z7921~~	~~12/20/94~~
16	CLJ-DD-01	JN6023P	^Z7946	12/21/94

COMMENTS:

Calibration Report

Title: 8080 PESTICIDES BY GC, COLUMN DB5, ECD, B2R
Calibrated: 941104 15:02

Compound	Files: >Y7138 RF .0200	>Y7139 RF .0500	>Y7140 RF .100	>Y7141 RF 1.00	>Y7142 RF 2.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	
2,4,5,6-Tetrachloro-m-xylene	1478400	1539840	1594240	1434994	1315837	7.937	1472662	7.229	.999072	
Alpha-BHC	1169600	1557760	1952320	2177773	2038387	9.208	1779168	23.117	.999351	— L
Gamma-BHC	1214400	1536640	1840960	1959382	1832735	10.263	1676823	18.004	.999365	
Lindane	1214400	1536640	1840960	1959382	1832735	10.263	1676823	18.004	.999365	
Beta-BHC	860750.	931180.	1004800	985511.	925114.	9.902	941471.	6.018	.999484	
Heptachlor	1747200	1791980	1901110	1855859	1729406	12.692	1805111	4.019	.999366	
Delta-BHC	971200.	1237120	1550080	1821769	1730648	11.088	1462164	24.200	.999580	— L
Aldrin	1323150	1435500	1603520	1731730	1633781	13.922	1545536	10.601	.999525	
Heptachlor epoxide	1508750	1503360	1593920	1606302	1519023	15.172	1546271	3.212	.999598	
gamma-Chlordane	1612750	1585900	1641270	1627496	1537516	15.955	1600986	2.560	.999594	
alpha-Chlordane	1412800	1472000	1545425	1439925	1335926	16.408	1441215	5.341	.999300	(Conc=.0400,.100,.200,2.0
Endosulfan I	1412800	1472000	1545425	1439925	1335926	16.408	1441215	5.341	.999300	(Conc=.0400,.100,.200,2.0
4,4'-DDE	1055950	1135980	1287360	1479536	1413703	16.980	1274506	14.065	.999681	
Dieldrin	1227200	1267840	1383350	1589328	1521870	17.333	1397917	11.213	.999713	
Endrin	1075150	1147500	1282560	1449519	1395780	18.058	1270102	12.522	.999778	
4,4'-DDD	1051975	1130230	1215035	1187537	1115444	18.383	1140044	5.606	.999496	(Conc=.0400,.100,.200,2.0
Endosulfan II	1051975	1130230	1215035	1187537	1115444	18.383	1140044	5.606	.999496	(Conc=.0400,.100,.200,2.0
4,4'-DDT	992000.	1122240	1197270	1233917	1170020	19.637	1143089	8.203	.999622	(Conc=.0400,.100,.200,2.0
Endrin aldehyde	1217600	1157100	1158730	1117847	1067568	18.850	1143769	4.854	.999750	
Endosulfan sulfate	992000.	1122240	1197270	1233917	1170020	19.637	1143089	8.203	.999622	(Conc=.0400,.100,.200,2.0
Methoxychlor	667800.	686560.	691300.	710147.	690293.	21.658	689220.	2.188	.999896	
Endrin ketone	1336000	1420140	1540800	1592201	1506696	21.483	1479167	6.871	.999592	
Decachlorobiphenyl	2416250	2299680	2241700	1744857	1584398	32.527	2057377	17.906	.998932	
Dichloran	-	-	-	-	-	-	-	-	-	
Hexachlopentadiene	-	-	-	-	-	-	-	-	-	

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

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

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

Calibration Report

Title: PESTICIDES 08-608 BY ECD/GC (R2 FRONT)
Calibrated: 941104 14:57

Compound	Files: >Z7209 RF .0200	>Z7210 RF .0500	>Z7211 RF .100	>Z7212 RF 1.00	>Z7213 RF 2.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	
2,4,5,6-Tetrachloro-m-xylene	5752000	5922560	5910410	4564374	3981938	6.413	5226257	17.156	.997690	
Alpha-BHC	4753600	6409600	7578280	7230587	6514998	8.667	6497414	16.780	.998528	
Lindane	4732800	6075520	6912360	6423865	5836578	9.992	5996225	13.575	.998782	
Gamma-BHC	4732800	6075520	6912360	6423865	5836578	9.992	5996225	13.575	.998782	
Beta-BHC	3512000	3723520	3850880	3309275	2983235	10.217	3475782	9.901	.998664	
Heptachlor	6582350	7095040	7409980	6290621	5614791	11.100	6598557	10.629	.998376	
Delta-BHC	3673600	4836480	5825620	5881037	5391098	11.473	5121567	17.796	.998956	
Aldrin	5161550	5514860	6087360	5688587	5135701	12.230	5517611	7.173	.998642	
Heptachlor epoxide	5519950	5818240	6072030	5303897	4795312	14.135	5501886	8.922	.998734	
gamma-Chlordane	5657600	5897620	6197480	5631168	5111452	14.683	5699064	7.016	.998820	
alpha-Chlordane	5643150	6035800	6293760	5427263	4907466	15.230	5661489	9.527	.998740	
Endosulfan I	4932300	4925960	5260120	4539867	4037634	15.332	4599176	10.856	.998235	
4,4'-DDE	3815950	4327640	4995160	5025781	4590474	16.073	4551002	11.066	.998893	
Dieldrin	4284800	4721940	5283180	5270309	4827820	16.372	4877610	8.557	.998978	
Endrin	3512000	3804780	4282250	4421003	4099426	17.613	4023892	9.133	.999230	
4,4'-DDD	2691200	3191660	3724150	3900725	3595850	17.933	3420717	14.155	.999086	
[illegible]osulfan II	4153550	4369260	4635830	4306614	3961118	18.208	4285275	5.867	.999119	
[illegible],4'-DDT	3020800	3413100	3888600	4135487	3875567	18.940	3666711	12.152	.999414	
Endrin aldehyde	3892750	3836140	3899840	3536250	3253446	19.300	3683685	7.684	.999156	
Endosulfan sulfate	3614350	3822700	4081280	4017443	3735813	19.708	3854317	5.037	.999319	
Methoxychlor	2343950	2433920	2931180	2389652	2248342	22.272	2389409	4.392	.999543	
Endrin ketone	3971150	4491520	5004810	4984447	4604841	22.908	4611354	9.189	.999167	
Decachlorobiphenyl	7413250	6985860	6657430	4957610	4447639	30.227	6092358	21.488	.998650	
Hexachlorocyclopentadiene	-	-	-	-	-	-	-	-	-	(Conc=.0200,.0400,.100,1.(
Hexachlorobenzene	-	-	-	-	-	-	-	-	-	(Conc=.0206,.0412,.103,1.(

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

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

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

Calibration Check Report

Title: 8080 PESTICIDES BY GC, COLUMN DB5, ECD, B2R
Calibrated: 941104 15:07

Check Standard Data File: >Y2835
Injection Time: 941218 01:05

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
2,4,5,6-Tetrachloro-m-xylene	1477662	1488834	1.18	Average	(Conc=.938)
Alpha-BHC	1779168	1820882	11.98	1st Degree	(Conc=1.25)
Gamma-BHC	1676823	1707024	1.80	Average	(Conc=1.17)
Lindane	1676823	1707024	1.80	Average	(Conc=1.17)
Beta-BHC	941471.	971173.	3.15	Average	(Conc=1.01)
Heptachlor	1885111	1861168	3.11	Average	(Conc=.980)
Delta-BHC	1462164	1581991	9.43	1st Degree	(Conc=1.20)
Aldrin	1545536	1529952	1.81	Average	(Conc=1.14)
Heptachlor epoxide	1546271	1573997	1.75	Average	(Conc=1.04)
gamma-Chlordane	1600986	1613944	.81	Average	(Conc=1.03)
alpha-Chlordane	1441215	1364863	5.30	Average	(Conc=2.18)
Endosulfan I	1441215	1364863	5.30	Average	(Conc=2.18)
4,4'-DDE	1274506	1240181	2.69	Average	(Conc=1.20)
Dieldrin	1397917	1401395	.25	Average	(Conc=1.15)
Endrin	1278102	1236741	2.63	Average	(Conc=1.21)
4,4'-DDD	1140044	1014431	11.02	Average	(Conc=2.39)
Endosulfan II	1140044	1014431	11.02	Average	(Conc=2.39)
4,4'-DDT	1143089	1075013	5.96	Average	(Conc=2.29)
Endrin aldehyde	1143769	1130833	1.20	Average	(Conc=.968)
Endosulfan sulfate	1143089	1075013	5.96	Average	(Conc=2.29)
Methoxychlor	689220.	657992.	4.53	Average	(Conc=1.06)
Endrin ketone	1479167	1472654	.10	Average	(Conc=1.02)
Decachlorobiphenyl	2057377	2062623	.50	Average	(Conc=.824)
Dichloran	-	-	-	Average	
Hexachloropentadiene	-	-	-	Average	(Conc=.418)

RF - Response Factor from daily standard file at 1.00 ug/ml

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

%Diff - % Difference from original average or curve

Calibration Check Report

Title: 8080 PESTICIDES BY GC, COLUMN DB5, ECD, B2R
Calibrated: 941104 15:02

Check Standard Data File: >Y7847
Injection Time: 941218 10:04

Compound	$\overline{RF}$	RF	%Diff	Calib Math	
2,4,5,6-Tetrachloro-m-xylene	1477662	1496679	1.63	Average	(Conc=.938)
Alpha-BHC	1779168	1820129	11.90	1st Degree	(Conc=1.25)
Gamma-BHC	1676823	1700767	1.43	Average	(Conc=1.17)
Lindane	1676823	1700767	1.43	Average	(Conc=1.17)
Beta-BHC	941471.	971566.	3.20	Average	(Conc=1.01)
Heptachlor	1805111	1849324	2.45	Average	(Conc=.980)
Delta-BHC	1462164	1587057	9.14	1st Degree	(Conc=1.20)
Aldrin	1545536	1528184	1.12	Average	(Conc=1.14)
Heptachlor epoxide	1546271	1575274	1.88	Average	(Conc=1.04)
gamma-Chlordane	1600986	1612839	.74	Average	(Conc=1.03)
alpha-Chlordane	1441215	1363931	5.36	Average	(Conc=2.18)
Endosulfan I	1441215	1363931	5.36	Average	(Conc=2.18)
4,4'-DDE	1274586	1252966	1.69	Average	(Conc=1.20)
Dieldrin	1397917	1400730	.20	Average	(Conc=1.15)
Endrin	1270107	1229769	3.18	Average	(Conc=1.21)
4,4'-DDD	1140844	1019446	10.58	Average	(Conc=2.39)
Endosulfan II	1140844	1019446	10.58	Average	(Conc=2.39)
4,4'-DDT	1143889	1068328	6.54	Average	(Conc=2.29)
Endrin aldehyde	1143769	1133030	.94	Average	(Conc=.968)
Endosulfan sulfate	1143089	1068328	6.54	Average	(Conc=2.29)
Methoxychlor	689778.	661256.	4.06	Average	(Conc=1.06)
Endrin ketone	1479167	1476902	.15	Average	(Conc=1.02)
Decachlorobiphenyl	2057377	2071840	.66	Average	(Conc=.824)
Dichloran	-	-	-	Average	
Hexachlorpentadiene	-	-	-	Average	(Conc=.416)

RF - Response Factor from daily standard file at 1.00 ug/ml

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

%Diff - % Difference from original average or curve

Calibration Check Report

Title: 8080 PESTICIDES BY GC, COLUMN DB5, ECD, 82R
Calibrated: 941104 15:02

Check Standard Data File: >Y7892
Injection Time: 941221 09:59

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
2,4,5,6-Tetrachloro-m-xylene	1479662	1411190	4.17	Average	(Conc=.697)
Alpha-BHC	1779168	1684195	13.47	1st Degree	(Conc=1.30)
Gamma-BHC	1676823	1544315	7.98	Average	(Conc=1.29)
Lindane	1676823	1544315	7.98	Average	(Conc=1.29)
Beta-BHC	941471.	893991.	5.05	Average	(Conc=1.12)
Heptachlor	1805111	1840663	1.97	Average	(Conc=.992)
Delta-BHC	1462164	1303962	25.39	1st Degree	(Conc=1.44)
Aldrin	1545536	1524551	1.36	Average	(Conc=1.15)
Heptachlor epoxide	1546271	1491705	3.53	Average	(Conc=1.10)
gamma-Chlordane	1600986	1428545	10.77	Average	(Conc=1.13)
alpha-Chlordane	1441215	1313737	8.85	Average	(Conc=2.28)
Endosulfan I	1441215	1313737	8.85	Average	(Conc=2.28)
4,4'-DDE	1274506	1180031	7.41	Average	(Conc=1.28)
Dieldrin	1397917	1302733	6.81	Average	(Conc=1.26)
Endrin	1270102	1135845	10.57	Average	(Conc=1.30)
4,4'-DDD	1140044	955042.	16.23	Average	(Conc=2.54)
Endosulfan II	1140044	955042.	16.23	Average	(Conc=2.54)
4,4'-DDT	1143089	965531.	15.53	Average	(Conc=2.58)
Endrin aldehyde	1143769	1004981	12.13	Average	(Conc=1.15)
Endosulfan sulfate	1143089	965531.	15.53	Average	(Conc=2.58)
Methoxychlor	689220.	605502.	12.15	Average	(Conc=1.18)
Endrin ketone	1479167	1466440	.86	Average	(Conc=1.04)
Decachlorobiphenyl	2057377	2089532	1.56	Average	(Conc=.750)
Dichloran	-	-	-	Average	
Hexachlorpentadiene	-	-	-	Average	(Conc=.418)

RF - Response Factor from daily standard file at 1.00 ug/ml

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

%Diff - % Difference from original average or curve

Calibration Check Report

Title: 8080 PESTICIDES BY GC, COLUMN DB5, ECD, B2R
Calibrated: 941104 15:02

Check Standard Data File: >Y7905
Injection Time: 941222 01:16

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
2,4,5,6-Tetrachloro-m-xylene	1472662	1418799	3.66	Average	(Conc=.897)
Alpha-BHC	1779168	1679468	18.70	1st Degree	(Conc=1.30)
Gamma-BHC	1676823	1535057	8.45	Average	(Conc=1.29)
Lindane	1676823	1535057	8.45	Average	(Conc=1.29)
Beta-BHC	941471.	889063.	5.57	Average	(Conc=1.12)
Heptachlor	1885111	1847115	2.33	Average	(Conc=.992)
Delta-BHC	1462164	1318607	24.55	1st Degree	(Conc=1.44)
Aldrin	1545536	1520516	1.62	Average	(Conc=1.15)
Heptachlor epoxide	1546271	1488329	3.75	Average	(Conc=1.10)
gamma-Chlordane	1600986	1409069	11.99	Average	(Conc=1.13)
Alpha-Chlordane	1441215	1308432	9.21	Average	(Conc=2.28)
Endosulfan I	1441215	1308432	9.21	Average	(Conc=2.28)
4,4'-DDE	1274506	1186617	6.90	Average	(Conc=1.28)
Dieldrin	1397917	1302870	6.86	Average	(Conc=1.26)
Endrin	1220102	1142165	10.07	Average	(Conc=1.30)
4,4'-DDD	1140044	971213.	14.81	Average	(Conc=2.54)
Endosulfan II	1140044	971213.	14.81	Average	(Conc=2.54)
4,4'-DDT	1143089	949457.	16.94	Average	(Conc=2.58)
Endrin aldehyde	1143769	1017035	11.08	Average	(Conc=1.15)
Endosulfan sulfate	1143089	949457.	16.94	Average	(Conc=2.58)
Methoxychlor	689220.	596022.	13.52	Average	(Conc=1.18)
Endrin ketone	1479167	1470859	.56	Average	(Conc=1.04)
Decachlorobiphenyl	2057377	2071668	.69	Average	(Conc=.750)
Dichloran	-	-	-	Average	
Hexachloropentadiene	-	-	-	Average	(Conc=.418)

RF - Response Factor from daily standard file at 1.00 ng/ml

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

%Diff - % Difference from original average or curve

Calibration Check Report

Title: PESTICIDES 08-608 BY ECD/GC (B2 FRONT)
Calibrated: 941104 14:57

Check Standard Data File: >Z7945
Injection Time: 941221 09:59

Compound	$\overline{RF}$	RF	%Diff	Calib Math	
2,4,5,6-Tetrachloro-m-xylene	5226257	5258680	.62	Average	(Conc=.897)
Alpha-BHC	6497414	6465493	.49	Average	(Conc=1.30)
Lindane	5996225	5966908	.49	Average	(Conc=1.29)
Gamma-BHC	5996225	5966908	.49	Average	(Conc=1.29)
Beta-BHC	3475782	3471393	.13	Average	(Conc=1.12)
Heptachlor	6598557	6585620	.20	Average	(Conc=.992)
Delta-BHC	5121567	5093721	.54	Average	(Conc=1.44)
Aldrin	5517611	5517726	.00	Average	(Conc=1.15)
Heptachlor epoxide	5501886	5463554	.70	Average	(Conc=1.10)
gamma-Chlordane	5699064	5680222	.33	Average	(Conc=1.13)
alpha-Chlordane	5661489	5767492	1.87	Average	(Conc=1.05)
Endosulfan I	4599176	4497499	2.21	Average	(Conc=1.23)
4,4'-DDE	4551802	4559440	.19	Average	(Conc=1.28)
Dieldrin	4877610	4854877	.47	Average	(Conc=1.26)
Endrin	4023892	4103818	1.99	Average	(Conc=1.30)
4,4'-DDD	3420717	3372182	1.27	Average	(Conc=1.32)
Endosulfan II	4285975	4299997	-.33	Average	(Conc=1.29)
4,4'-DDT	3666711	3735119	1.87	Average	(Conc=1.35)
Endrin aldehyde	3687685	3719890	.98	Average	(Conc=1.15)
Endosulfan sulfate	3854317	3865334	.29	Average	(Conc=1.23)
Methoxychlor	2389489	2393785	.18	Average	(Conc=1.18)
Endrin ketone	4611354	5472293	18.67	Average	(Conc=1.84) X
Decachlorobiphenyl	6092358	7478772	22.76	Average	(Conc=.750) X
Hexachlorocyclopentadiene	-	-	-	Average	(Conc=1.00)
Hexachlorobenzene	-	-	-	Average	(Conc=1.00)

RF - Response Factor from daily standard file at 1.000 ug/ml

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

%Diff - % Difference from original average or curve

Calibration Check Report

Title: PESTICIDES 08-608 BY ECD/GC (B2 FRONT)
Calibrated: 941104 14:57

Check Standard Data File: >Z7957
Injection Time: 941222 00:32

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
2,4,5,6-Tetrachloro-m-xylene	5726757	5738818	.24	Average	(Conc=.897)
Alpha-BHC	6497414	6367192	2.00	Average	(Conc=1.30)
Lindane	5996225	5827319	2.82	Average	(Conc=1.29)
Gamma-BHC	5996225	5827319	2.82	Average	(Conc=1.29)
Beta-BHC	3475782	3373965	2.93	Average	(Conc=1.12)
Heptachlor	6598557	6475038	1.87	Average	(Conc=.992)
Delta-BHC	5121567	4987030	2.63	Average	(Conc=1.44)
Aldrin	5517611	5463743	.98	Average	(Conc=1.15)
Heptachlor epoxide	5501886	5355947	2.65	Average	(Conc=1.10)
gamma-Chlordane	5699064	5383526	5.54	Average	(Conc=1.13)
alpha-Chlordane	5661489	5384647	4.89	Average	(Conc=1.05)
Endosulfan I	4599176	4476089	2.68	Average	(Conc=1.23)
4,4'-DDE	4551002	4391193	3.51	Average	(Conc=1.28)
Dieldrin	4877610	4699577	3.65	Average	(Conc=1.26)
[illegible]rin	4073892	3960249	1.58	Average	(Conc=1.30)
[illegible]4'-DDD	3428717	3301935	3.47	Average	(Conc=1.32)
Endosulfan II	4285975	4117453	3.92	Average	(Conc=1.22)
4,4'-DDT	3666711	3435650	6.30	Average	(Conc=1.35)
Endrin aldehyde	3683685	3545759	3.74	Average	(Conc=1.15)
Endosulfan sulfate	3554317	3422963	3.41	Average	(Conc=1.23)
Methoxychlor	2389409	2237823	6.34	Average	(Conc=1.18)
Endrin ketone	4611354	5158523	11.87	Average	(Conc=1.14)
Decachlorobiphenyl	6092358	6890444	13.10	Average	(Conc=.750)
Hexachlorocyclopentadiene	-	-	-	Average	(Conc=1.00)
Hexachlorobenzene	-	-	-	Average	(Conc=1.00)

RF - Response Factor from daily standard file at 1.00 ug/ml

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

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

0231 EPA SAMPLE NO.

PBLK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: CLJ-DD-01

Matrix: (soil/water) SOIL Lab Sample ID: N2P41817P

Sample wt/vol: 30.0 (g/mL) G Lab File ID: ^Y7840

% Moisture: N/A decanted: (Y/N) N Date Received: 12/9/94

Extraction: (SepF/Cont/Sonc) 3540 Date Extracted: 12/12/94

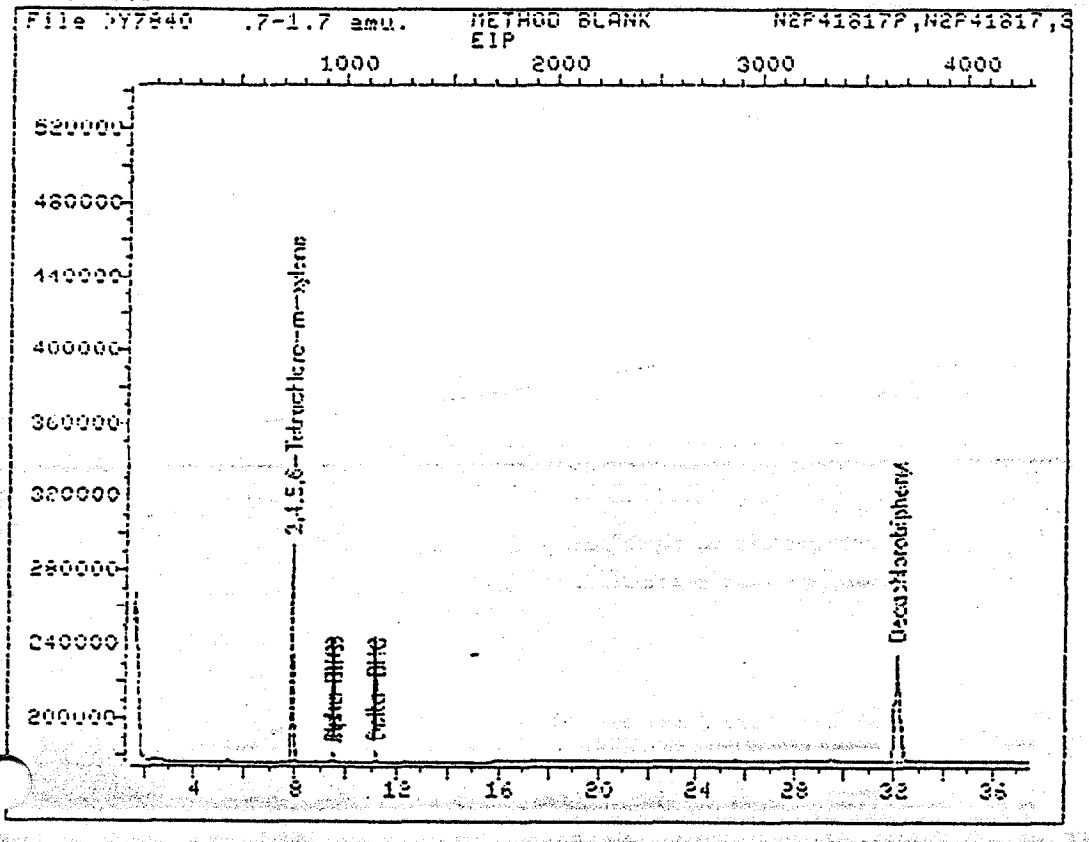
Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/18/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	17	U
319-85-7	beta-BHC	1.7	U
57-74-9	Chlordane	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	1.7	U
72-55-9	4,4'-DDE	1.7	U
72-20-8	Endrin	1.7	U
33213-65-9	Endosulfan II	1.7	U
72-54-8	4,4'-DDD	1.7	U
1031-07-8	Endosulfan sulfate	1.7	U
50-29-3	4,4'-DDT	1.7	U
72-43-5	Methoxychlor	1.7	U
53494-70-5	Endrin ketone	1.7	U
7421-93-4	Endrin aldehyde	1.7	U
8001-35-2	Toxaphene	33	U
12674-11-2	Aroclor-1016	17	U
11104-28-2	Aroclor-1221	17	U
11141-16-5	Aroclor-1232	17	U
53469-21-9	Aroclor-1242	17	U
12672-29-6	Aroclor-1248	17	U
11097-69-1	Aroclor-1254	17	U
11096-82-5	Aroclor-1260	17	U

CHROMATOGRAM



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Name: METHOD BLANK Instrument ID: Y
Misc: N2P41817P,N2P41817,S:G2,30,5:1,

Id File: IYPN04::D5
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, 82R
Last Calibration: 941104 15:08 Last Qcal Time: <none>

Operator ID: USER2
Quant Time : 941218 05:30
Injected at: 941218 04:50

QUANT REPORT Page 1

Operator ID: USER2 Quant Rev: 7 Quant Time: 941218 05:30
Output File: ^Y7840::05 Injected at: 941218 04:50
Data File: >Y7840::05 Dilution Factor: 1.00000
Name: METHOD BLANK Instrument ID: Y
Misc: N2P41817P,N2P41817,S:G2,30,5:1,

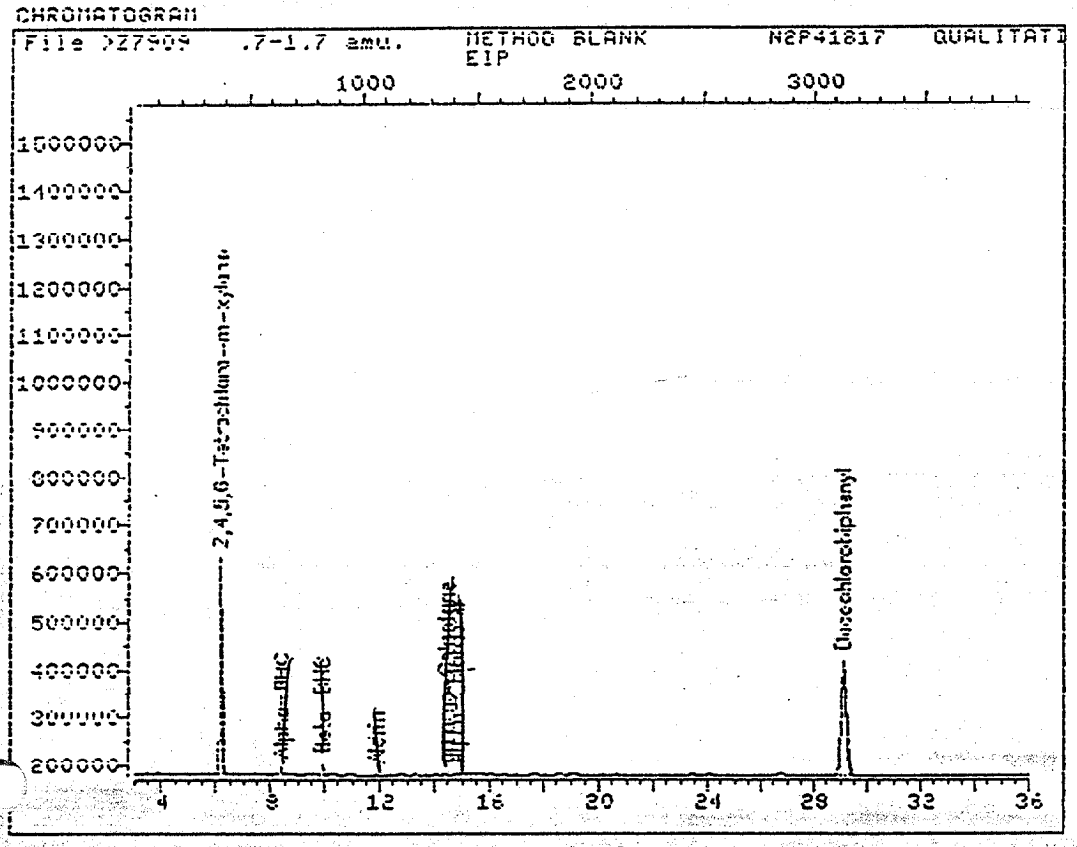
ID File: IYPN04::05
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, B2R
Last Calibration: 941104 19:08 Last Qcal Time: <none>

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#2,4,5,6-Tetrachloro-m-xylene	7.84	762	548257	.372	ug/ml	100
2)	#Alpha-BHC	9.49	960	20960	~~.0105~~	~~ug/ml~~	~~100~~
3)	#Beta-BHC	9.49	960	21760	~~.0231~~	~~ug/ml~~	~~100~~
6)	#Delta-BHC	11.15	1159	28895	~~.0212~~	~~ug/ml~~	~~100~~
23)	#Decachlorobiphenyl	32.10	3673	778322	.378	ug/ml	100

Compound uses ESTD

AIC
1/12/94

CHROMATOGRAM



Confirmation

Data File: >Z7909::05 Quant Output File: ^Z7909::05
Name: METHOD BLANK Instrument ID: 2
Misc: N2P41817 QUALITATIVE ONLY

Id File: IZPN04::05
Title: PESTICIDES 08-608 BY GC B2 (FRONT)
Last Calibration: 941104 15:06 Last Qcal Time: <none>

Operator ID: USER2
Quant Time : 941219 17:33
Injected at: 941219 16:52

QUANT REPORT Page 1

Operator ID: USER2 Quant Rev: 7 Quant Time: 941219 17:33
Output File: ^Z7909::05 Injected at: 941219 16:52
Data File: >Z7909::05 Dilution Factor: 1.00000
Name: METHOD BLANK Instrument ID: Z
Misc: N2P41817 QUALITATIVE ONLY

ID File: IZPN04::05
Title: PESTICIDES DB-608 BY GC B2 (FRONT)
Last Calibration: 941104 19:06 Last Qcal Time: <none>

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#2,4,5,6-Tetrachloro-m-xylene	6.13	376	2181003	.417	ug/ml	100
2)	#Alpha-BHC	8.36	644	66080	.0102	ug/ml	100
5)	#Beta-BHC	~~9.87~~	825	110624	~~.0318~~	~~ug/ml~~	~~100~~
8)	#Aldrin	11.83	1060	42911	~~.00778~~	~~ug/ml~~	~~10*~~
10)	#gamma-Chlordane	14.38	1367	31903	~~.00560~~	~~ug/ml~~	~~100~~
11)	#alpha-Chlordane	14.73	1409	53120	~~.00938~~	~~ug/ml~~	~~100~~
23)	#Decachlorobiphenyl	29.07	3129	3013796	.495	ug/ml	100

* Compound uses ESTD

0236

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A01SS-18BMS

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESH

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-DD-01

Matrix: (soil/water) SOIL Lab Sample ID: JN5853PS

Sample wt/vol: 30.4 (g/mL) G Lab File ID: ^Y7842

% Moisture: 18 decanted: (Y/N) N Date Received: 12/07/94

Extraction: (SepF/Cont/Sonc) 3540 Date Extracted: 12/12/94

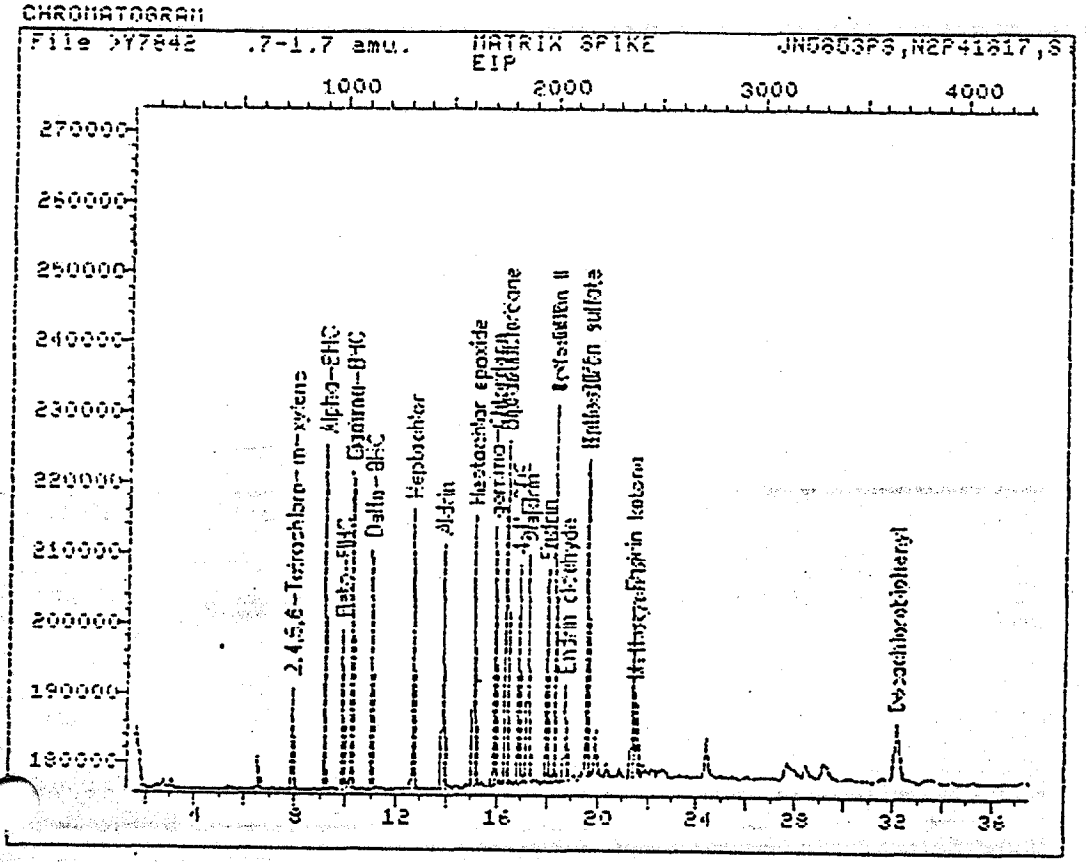
Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/18/94

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: 7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	180	
319-85-7	beta-BHC	210	
319-86-8	delta-BHC	160	
58-89-9	gamma-BHC (Lindane)	210	
76-44-8	Heptachlor	200	
309-00-2	Aldrin	200	
1024-57-3	Heptachlor epoxide	250	
959-98-8	Endosulfan I	230	
60-57-1	Dieldrin	210	
72-55-9	4,4'-DDE	210	
72-20-8	Endrin	210	
33213-65-9	Endosulfan II	220	
72-54-8	4,4'-DDD	220	
1031-07-8	Endosulfan sulfate	190	
50-29-3	4,4'-DDT	190	
72-43-5	Methoxychlor	210	
53494-70-5	Endrin ketone	190	
7421-93-4	Endrin aldehyde	130	
8001-35-2	Toxaphene	400	U
12674-11-2	Aroclor-1016	200	U
11104-28-2	Aroclor-1221	200	U
11141-16-5	Aroclor-1232	200	U
53469-21-9	Aroclor-1242	200	U
12672-29-6	Aroclor-1248	200	U
11097-69-1	Aroclor-1254	200	U
11096-82-5	Aroclor-1260	200	U
57-74-9	Chlordane	440	

CHROMATOGRAM



Data File: >Y7842::D5 Quant Output File: ^Y7842::D5
Name: MATRIX SPIKE Instrument ID: Y
Misc: JN0803PS,N2P41817,S:G2,25.03,5:10,

Id File: !YPN04::D5
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, B2R
Last Calibration: 941104 15:08 Last Qcal Time: <none>

Operator ID: USER2
Quant Time : 941218 07:00
Injected at: 941218 06:19

QUANT REPORT Page 1

Operator ID: USER2 Quant Rev: 7 Quant Time: 941218 07:00
Output File: ^Y7842::D5 Injected at: 941218 06:19
Data File: >Y7842::D5 Dilution Factor: 1.00000
Name: MATRIX SPIKE Instrument ID: Y
Misc: JN5853PS,N2P41817,S:G2,25.03,5:10,

ID File: IYPN04::D5
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, B2R
Last Calibration: 941104 15:08 Last Qcal Time: <none>

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	$2,4,5,6-Tetrachloro-m-xylene	7.84	762	63103	.0428	ug/ml	100
2)	$Alpha-BHC	9.11	914	189888	.0922	ug/ml	100
3)	#Beta-BHC	9.81	998	98399	.105	ug/ml	100
4)	#Gamma-BHC	10.16	1040	179424	.107	ug/ml	100
5)	#Lindane	10.16	1040	179424	.107	ug/ml	100
6)	#Delta-BHC	10.99	1140	128960	.0783	ug/ml	100
7)	#Heptachlor	12.57	1329	176799	.0979	ug/ml	100
8)	#Aldrin	13.79	1476	158368	.102	ug/ml	100
9)	#Heptachlor epoxide	15.04	1626	190720	.123	ug/ml	100
10)	$gamma-Chlordane	15.82	1719	171422	.107	ug/ml	100
11)	$alpha-Chlordane	16.28	1774	323969	.225	ug/ml	100
12)	#Endosulfan I	16.28	1774	323969	.225	ug/ml	100
13)	#4,4'-DDE	16.84	1842	132352	.104	ug/ml	100
14)	#Dieldrin	17.20	1885	150078	.107	ug/ml	100
15)	#Endrin	17.92	1971	136385	.107	ug/ml	100
16)	#Endosulfan II	18.25	2011	246049	.216	ug/ml	100
17)	#4,4'-DDD	18.25	2011	246049	.216	ug/ml	100
18)	#Endrin aldehyde	18.72	2067	73856	.0646	ug/ml	100
19)	#4,4'-DDT	19.50	2161	216033	.189	ug/ml	100
20)	#Endosulfan sulfate	19.50	2161	216033	.189	ug/ml	100
21)	#Endrin ketone	21.32	2379	139936	.0946	ug/ml	100
22)	#Methoxychlor	21.47	2398	71999	.104	ug/ml	100
23)	#Decachlorobiphenyl	32.09	3672	111624	.0543	ug/ml	100

Compound uses ESTD

QK
12/20/94

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

0239 EPA SAMPLE NO.

A01SS-18BMSD

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-DD-01

Matrix: (soil/water) SOIL Lab Sample ID: JN5853PR

Sample wt/vol: 30.1 (g/mL) G Lab File ID: ^Y7843

% Moisture: 18 decanted: (Y/N) N Date Received: 12/07/94

Extraction: (SepF/Cont/Sonc) 3540 Date Extracted: 12/12/94

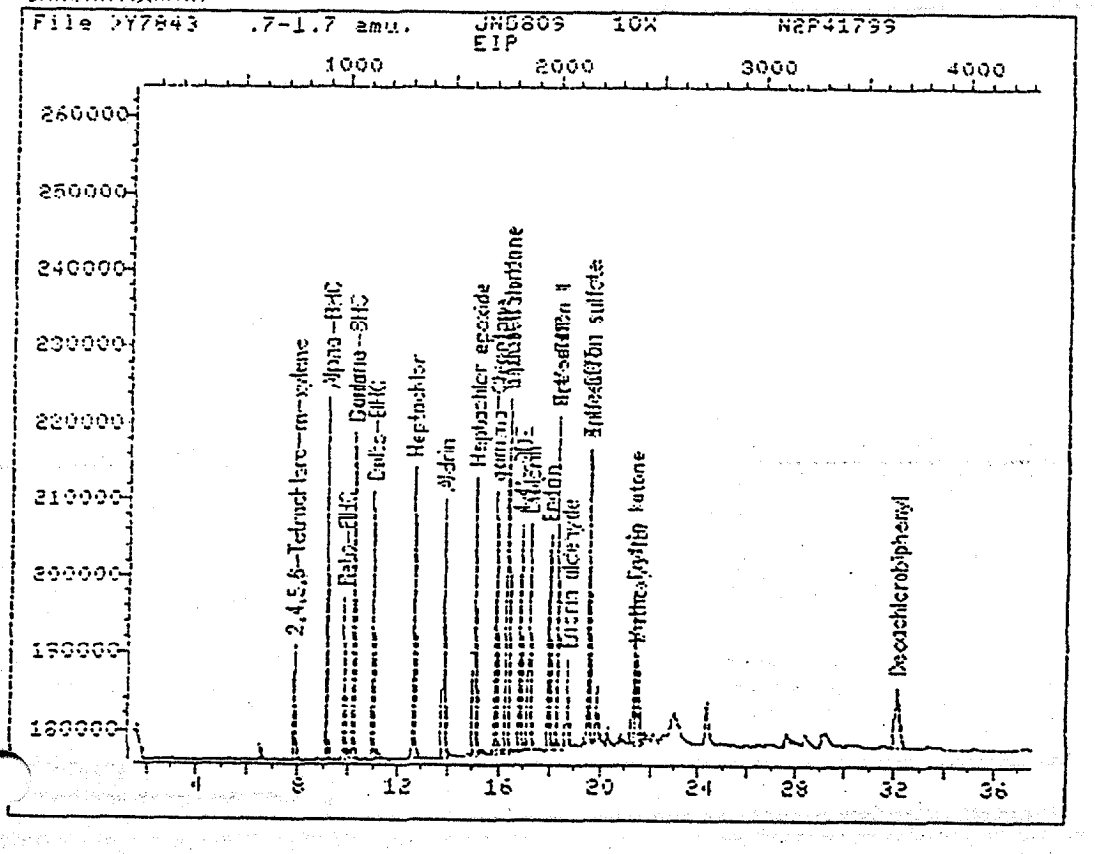
Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/18/94

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: 7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	180	
319-85-7	beta-BHC	190	
319-86-8	delta-BHC	160	
58-89-9	gamma-BHC (Lindane)	200	
76-44-8	Heptachlor	190	
309-00-2	Aldrin	200	
1024-57-3	Heptachlor epoxide	240	
959-98-8	Endosulfan I	210	
60-57-1	Dieldrin	200	
72-55-9	4,4'-DDE	200	
72-20-8	Endrin	200	
33213-65-9	Endosulfan II	180	
72-54-8	4,4'-DDD	180	
1031-07-8	Endosulfan sulfate	160	
50-29-3	4,4'-DDT	160	
72-43-5	Methoxychlor	190	
53494-70-5	Endrin ketone	150	
7421-93-4	Endrin aldehyde	110	
8001-35-2	Toxaphene	400	U
12674-11-2	Aroclor-1016	200	U
11104-28-2	Aroclor-1221	200	U
11141-16-5	Aroclor-1232	200	U
53469-21-9	Aroclor-1242	200	U
12672-29-6	Aroclor-1248	200	U
11097-69-1	Aroclor-1254	200	U
11096-82-5	Aroclor-1260	200	U
57-74-9	Chlordane	410	

CHROMATOGRAM



Data File: >Y7843::D5 Quant Output File: ^Y7843::D5
Name: JNS809 10X Instrument ID: Y
Misc: N2P41799

Id File: IYPN04::D5
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, B2R
Last Calibration: 941104 19:08 Last Qcal Time: <none>

Operator ID: USER2
Quant Time : 941218 07:49
Injected at: 941218 07:04

QUANT REPORT Page 1

Operator ID: USER2 Quant Rev: 7 Quant Time: 941218 07:45
Output File: ^Y7843::D5 Injected at: 941218 07:04
Data File: >Y7843::D5 Dilution Factor: 1.00000
Name: JN5809 10X Instrument ID: Y
Misc: N2P41799 with Spk Sup

ID File: IYPN04::D5
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, B2R
Last Calibration: 941104 15:08 Last Qcal Time: <none>

	Compound	R.T.	Scan#	Area	Conc	Units	q	
1)	$2,4,5,6-Tetrachloro-m-xylene	7.84	762	62047	.0421	ug/ml	100	
2)	$Alpha-BHC	9.11	914	180895	.0879	ug/ml	100	
3)	$Beta-BHC	9.81	998	87839	.0933	ug/ml	100	
4)	$Gamma-BHC	10.16	1040	168894	.101	ug/ml	100	
5)	$Lindane	10.16	1040	168894	.101	ug/ml	100	
6)	$Delta-BHC	10.99	1140	132800	.0805	ug/ml	100	
7)	$Heptachlor	12.57	1329	167711	.0929	ug/ml	100	
8)	$Aldrin	13.79	1476	151391	.0980	ug/ml	100	
9)	$Heptachlor epoxide	15.04	1626	180768	.117	ug/ml	100	
10)	$gamma-Chlordane	15.82	1719	159902	.0999	ug/ml	100	
11)	$alpha-Chlordane	16.28	1774	304383	.211	ug/ml	100	
12)	$Endosulfan I	16.28	1774	304383	.211	ug/ml	100	
13)	$4,4'-DDE	16.84	1842	123360	.0968	ug/ml	100	
14)	$Dieldrin	17.19	1884	137280	.0982	ug/ml	100	
15)	$Endrin	17.92	1971	127776	.101	ug/ml	100	
16)	$Endosulfan II	18.25	2011	196958	.173	ug/ml	100	
17)	$4,4'-DDD	18.25	2011	196958	.173	ug/ml	100	
18)	$Endrin aldehyde	18.72	2067	60096	.0525	ug/ml	100	
19)	$4,4'-DDT	19.50	2161	181505	.159	ug/ml	100	
20)	$Endosulfan sulfate	19.50	2161	181505	.159	ug/ml	100	
21)	$Endrin ketone	21.31	2378	106945	.0723	ug/ml	100	
22)	$Methoxychlor	21.47	2398	65791	.0955	ug/ml	100	
23)	$Decachlorobiphenyl	32.09	3672	104040	.0506	ug/ml	100	

$ Compound uses ESTD

QC limit 90

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

0242 EPA SAMPLE NO.

PSPK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: CLJ-DD-01

Matrix: (soil/water) SOIL Lab Sample ID: N2P41817PS

Sample wt/vol: 30.0 (g/mL) G Lab File ID: ^Y7841

% Moisture: N/A decanted: (Y/N) N Date Received: 12/9/94

Extraction: (SepF/Cont/Sonc) 3540 Date Extracted: 12/12/94

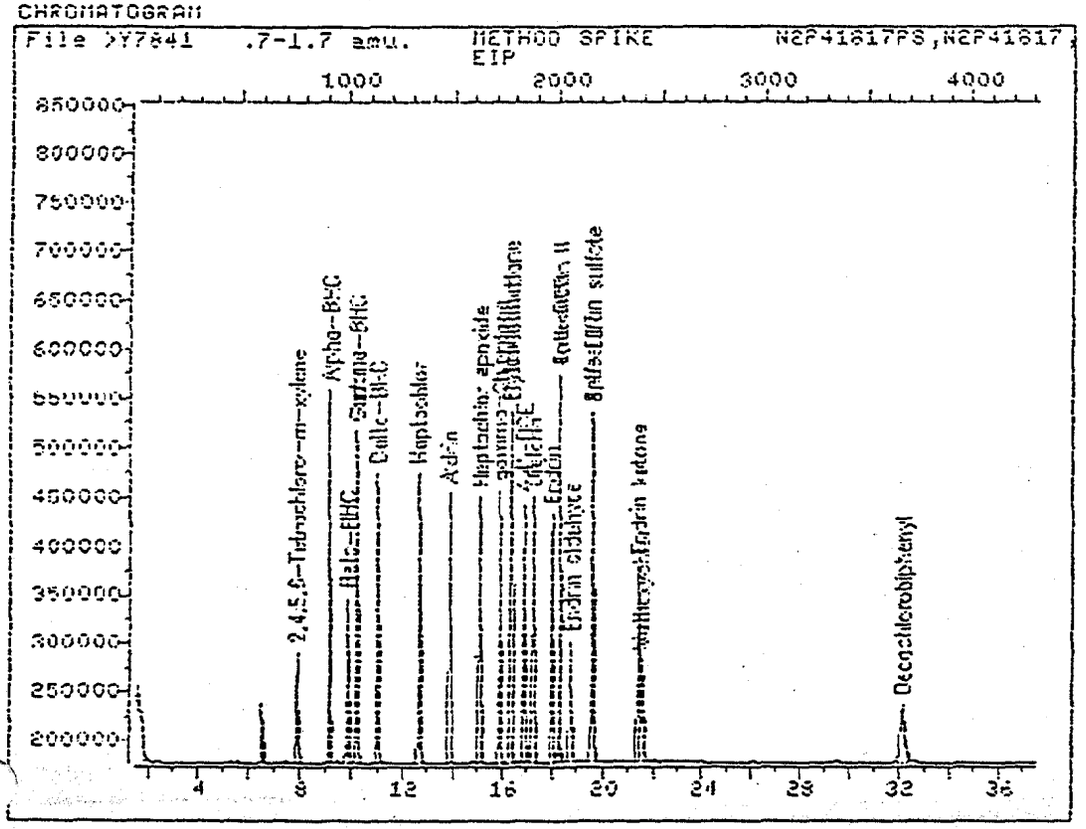
Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/18/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	290	
319-85-7	beta-BHC	140	
57-74-9	Chlordane	130	
58-89-9	gamma-BHC (Lindane)	160	
76-44-8	Heptachlor	130	
309-00-2	Aldrin	150	
1024-57-3	Heptachlor epoxide	150	
959-98-8	Endosulfan I	150	
60-57-1	Dieldrin	160	
72-55-9	4,4'-DDE	170	
72-20-8	Endrin	170	
33213-65-9	Endosulfan II	150	
72-54-8	4,4'-DDD	150	
1031-07-8	Endosulfan sulfate	140	
50-29-3	4,4'-DDT	140	
72-43-5	Methoxychlor	150	
53494-70-5	Endrin ketone	140	
7421-93-4	Endrin aldehyde	96	
8001-35-2	Toxaphene	33	U
12674-11-2	Aroclor-1016	17	U
11104-28-2	Aroclor-1221	17	U
11141-16-5	Aroclor-1232	17	U
53469-21-9	Aroclor-1242	17	U
12672-29-6	Aroclor-1248	17	U
11097-69-1	Aroclor-1254	17	U
11096-82-5	Aroclor-1260	17	U

CHROMATOGRAM



Data File: >Y7841::D5 Quant Output File: ^Y7841::D5
Name: METHOD SPIKE Instrument ID: Y
Misc: N2P41817PS,N2P41817,S:G2,30,5:1,

Id File: IYPN04::D5
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, 82R
Last Calibration: 941104 15:08 Last Qcal Time: <none>

Operator ID: USER2
Quant Time : 941218 06:16
Injected at: 941218 05:35

QUANT REPORT Page 1

Operator ID: USER2 Quant Rev: 7 Quant Time: 941218 06:16
Output File: ^Y7841::D5 Injected at: 941218 05:35
Data File: >Y7841::D5 Dilution Factor: 1.00000
Name: METHOD SPIKE Instrument ID: Y
Misc: N2P41817PS,N2P41817,S:G2,30,5:1,

ID File: [YPN04::D5
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, B2R
Last Calibration: 941104 15:08 Last Qcal Time: <none>

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#2,4,5,6-Tetrachloro-m-xylene	7.84	762	523297	.355	ug/ml	100
2)	#Alpha-BHC	9.11	914	1738088	.841	ug/ml	100
3)	#Beta-BHC	9.81	998	807872	.858	ug/ml	100
4)	#Gamma-BHC	10.16	1040	1569874	.936	ug/ml	100
5)	#Lindane	10.16	1040	1569874	.936	ug/ml	100
6)	#Delta-BHC	10.99	1140	1326569	.761	ug/ml	100
7)	#Heptachlor	12.57	1329	1455630	.806	ug/ml	100
8)	#Aldrin	13.79	1476	1359244	.879	ug/ml	100
9)	#Heptachlor epoxide	15.04	1626	1355337	.877	ug/ml	100
10)	#gamma-Chlordane	15.82	1719	1407637	.879	ug/ml	100
11)	#alpha-Chlordane	16.28	1774	2527549	1.75	ug/ml	100
12)	#Endosulfan I	16.28	1774	2527549	1.75	ug/ml	100
13)	#4,4'-DDE	16.84	1842	1278541	1.00	ug/ml	100
14)	#Dieldrin	17.20	1885	1351988	.967	ug/ml	100
15)	#Endrin	17.92	1971	1271795	1.00	ug/ml	100
16)	#Endosulfan II	18.25	2011	1985578	1.74	ug/ml	100
17)	#4,4'-DDD	18.25	2011	1985578	1.74	ug/ml	100
18)	#Endrin aldehyde	18.72	2067	659205	.576	ug/ml	100
19)	#4,4'-DDT	19.50	2161	1868082	1.63	ug/ml	100
20)	#Endosulfan sulfate	19.50	2161	1868082	1.63	ug/ml	100
21)	#Endrin ketone	21.31	2378	1215132	.821	ug/ml	100
22)	#Methoxychlor	21.47	2398	608835	.883	ug/ml	100
23)	#Decachlorobiphenyl	32.10	3673	773618	.376	ug/ml	100

Compound uses ESTD

ak
12/20/94

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

0245 EPA SAMPLE NO.

CLJ-DD-01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: CLJDD01

Matrix: (soil/water) SOIL Lab Sample ID: JN6023P

Sample wt/vol: 9.53 (g/mL) G Lab File ID: A4R402

% Moisture: 4 decanted: (Y/N) N Date Received: 12/09/94

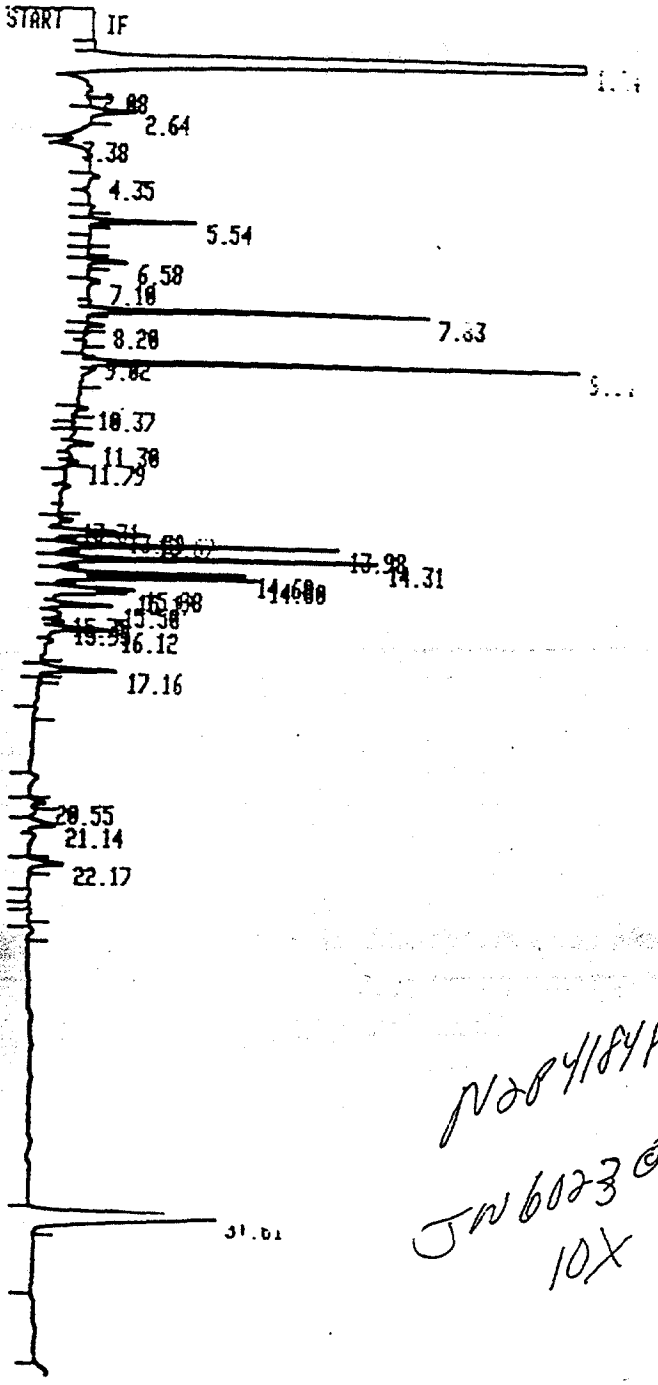
Extraction: (SepF/Cont/Sonc) ~~CLP~~ Sox Date Extracted: 12/18/94

Concentrated Extract Volume: 50000 (uL) Date Analyzed: 12/22/94

Injection Volume: ~~1.0~~ 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	5500	U
11104-28-2	Aroclor-1221	5500	U
11141-16-5	Aroclor-1232	5500	U
53469-21-9	Aroclor-1242	5500	U
12672-29-6	Aroclor-1248	5500	U
11097-69-1	Aroclor-1254	5500	U
11096-82-5	Aroclor-1260	5500	U



N284184F

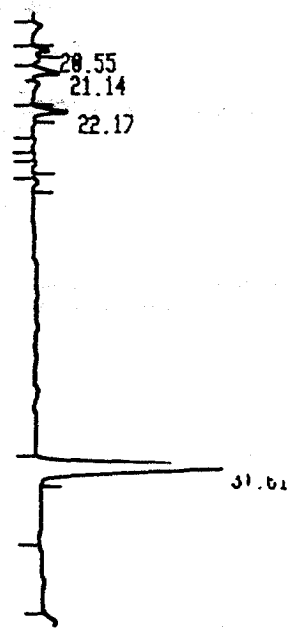
JN6023@

10X

RUN # 402 DEC/22/94 00:52:13
WORKFILE ID: B
WORKFILE NAME:
SAMPLE # 71

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.24	1148900	BB	0.192	57.358
2.08	18122	BB	0.409	0.905
2.64	20220	BB	0.122	1.010
3.38	3581	BB	0.082	0.179
4.35	7759	BB	0.193	0.387
5.54	28947	PB	0.078	1.445
6.58	10319	PB	0.077	0.515
7.10	5451	BB	0.124	0.272
7.83	83981	VB	0.070	4.193
8.20	4169	BB	0.067	0.208
9.14	126470	BB	0.065	6.314



N28418F
JN6023@
10X

RUN # 402 DEC/22/94 00:52:13
WORKFILE ID: B
WORKFILE NAME:
SAMPLE # 71

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.24	1148900	BB	0.192	57.358
2.08	18122	BB	0.409	0.905
2.64	20220	BB	0.122	1.010
3.38	3581	BB	0.082	0.179
4.35	7759	BB	0.193	0.387
5.54	28947	PB	0.078	1.445
6.58	10319	PB	0.077	0.515
7.10	5451	BB	0.124	0.272
7.83	83981	VB	0.070	4.193
8.20	4169	BB	0.067	0.208
9.14	126470	BB	0.065	6.314
10.37	3348	PB	0.076	0.167
11.30	9773	VB	0.110	0.488
11.79	2080	VB	0.061	0.104
13.31	3815	BB	0.080	0.191
13.59	2886	PB	0.036	0.144
13.67	8448	BB	0.044	0.422
13.98	77409	BB	0.079	3.865
14.31	90861	PB	0.081	4.536
14.68	31860	PB	0.056	1.591
14.80	36671	BB	0.061	1.831
15.08	7782	PB	0.050	0.389
15.17	3048	BB	0.029	0.152
15.50	16533	BB	0.078	0.825
15.75	4897	BB	0.129	0.245
15.95	2750	BB	0.066	0.137
16.12	19123	BB	0.092	0.955
17.16	26233	BB	0.101	1.310
20.55	5052	PB	0.106	0.252
21.14	13167	PB	0.150	0.657
22.17	18110	BB	0.148	0.904
31.61	161340	PB	0.248	8.055

TOTAL AREA= 2003000
MUL FACTOR= 1.0000E+00

2F (PCB)
SOIL PCB SURROGATE RECOVERY

0248

Lab Name: ANALYTICAL SERVICES CORP. Contract: NELSA

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: CLJDD0

GC Column(1): DB-5 ID: 0.53 (mm) GC Column(2): N/A ID: N/A (mm

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK01	70		113				0
02	PSPK01	75		136				0
03	CLJ-DD-01	53		102				0

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D System Monitoring compound diluted out

3F

SOIL PESTICIDE BLANK SPIKE RECOVERY

0249

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: CLJD01

Matrix Spike - EPA Sample No.: PSPK01

COMPOUND	SPIKE ADDED (ug/Kg)	BLANK CONCENTRATION (ug/Kg)	BS CONCENTRATION (ug/Kg)	BS % REC #	QC LIMITS REC.
Aroclor 1248	310	0	290	93	30-130

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

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits

COMMENTS: _____

4B
SEMIVOLATILE METHOD BLANK SUMMARY 0250

EPA SAMPLE NO.

PBLK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: CLJDD01

Lab File ID: A4R399

Lab Sample ID: N2P41848P

Instrument ID: PK

Date Extracted: 12/18/94

Matrix: (soil/water) SOIL

Date Analyzed: 12/21/94

Level: (low/med) _____

Time Analyzed: 2250

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	PSPK01	N2P41848PS	A4R400	12/21/94
02	CLJ-DD-01	JN6023P	A4R402	12/22/94

COMMENTS:

Initial Calibration Data

Curve ID: A4RD01 Units: ug/ml

Compound	TV	STD # 1 .101	STD # 2 .202	STD # 3 .505	STD # 4 1.01	STD # 5 2.02	AVG RF	CORR1	SLOPE	Y-INT	% RSD	Type*
Aroclor 1232	RF	2900000	2900000	2890000	2820000	2720000	2850000	1.00	3.69-07	-.0208	2.70	R
	CV	.0871	.196	.517	1.03	2.01						

Compound	TV	STD # 1 .100	STD # 2 .201	STD # 3 .501	STD # 4 1.01	STD # 5 2.01	AVG RF	CORR1	SLOPE	Y-INT	% RSD	Type*
Aroclor 1221	RF	2310000	2150000	2000000	1820000	1690000	1990000	.999	6.05-07	-.0711	12.4	R
	CV	.0686	.191	.534	1.04	1.99						
Aroclor 1254	RF	8400000	7980000	7720000	7220000	6750000	7610000	.999	1.50-07	-.0527	8.48	R
	CV	.0736	.189	.529	1.04	1.99						
Aroclor 1016	RF	5800000	5600000	5350000	5240000	4990000	5400000	1.00	2.02-07	-.0320	5.84	R
	CV	.0852	.195	.509	1.03	1.99						
Aroclor 1260	RF	10300000	10000000	9750000	9760000	9550000	9890000	1.00	1.05-07	-.0131	3.07	R
	CV	.0955	.198	.500	1.01	1.99						

Compound	TV	STD # 1 .101	STD # 2 .201	STD # 3 .501	STD # 4 1.01	STD # 5 2.01	AVG RF	CORR1	SLOPE	Y-INT	% RSD	Type*
Aroclor 1248	RF	5000000	4730000	4530000	4300000	4090000	4530000	1.00	2.47-07	-.0425	7.80	R
	CV	.0825	.193	.520	1.03	1.99						

Compound	TV	STD # 1 .0100	STD # 2 .0200	STD # 3 .0500	STD # 4 .100	STD # 5 .200	AVG RF	CORR1	SLOPE	Y-INT	% RSD	Type*
Decachlorobiphenyl (PCB)	RF	29600000	30200000	32600000	33400000	32300000	31600000	1.00	3.07-08	.000244	5.23	R
	CV	.00933	.0188	.0504	.103	.198						
2,4,5,6-TCMX (PCB)	RF	29600000	30200000	32600000	33400000	32300000	31600000	1.00	3.07-08	.000244	5.23	R
	CV	.00933	.0188	.0504	.103	.198						

Compound	TV	STD # 1 .100	STD # 2 .200	STD # 3 .500	STD # 4 1.00	STD # 5 2.00	AVG RF	CORR1	SLOPE	Y-INT	% RSD	Type*
Aroclor 1242	RF	4740000	3520000	4390000	4180000	3970000	4160000	.999	2.52-07	-.0197	11.0	R
	CV	.0995	.158	.533	1.03	1.98						

TV = True Value, RF = Response Factor, CV = Calc Value

A4RD01

Continuing Calibration Check

Curve ID: A4RD01 Units: ug/ml Check Std. Date 94/12/21

num	Compound	Cont. RF	Avg. RF	% Diff	True Conc	Calc Conc	% Recov	Type
A284	Aroclor 1016	5270000	5400000	2.30	.656	.641	97.7	R
A291	Aroclor 1260	9800000	9890000	.829	.546	.541	99.2	R
A285	Aroclor 1221	2000000	1990000	.108	.633	.634	100	R
A290	Aroclor 1254	7760000	7610000	1.99	.594	.606	102	R
A288	Aroclor 1242	4070000	4160000	2.22	.674	.659	97.8	R
A289	Aroclor 1248	4540000	4530000	.0843	.627	.628	100	R
F096	2,4,5,6-TCMX (PCB)	32400000	31600000	2.30	.0630	.0645	102	R
F048	Decachlorobiphenyl (PCB)	33500000	31600000	6.08	.0850	.0902	106	R
A286	Aroclor 1232	3000000	2850000	5.43	.619	.653	105	R

RIN 393 - 398

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

0253

EPA SAMPLE NO.

PBLK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: CLJ DDØ

Matrix: (soil/water) SOIL Lab Sample ID: N2P41848P

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A4R399

% Moisture: N/A decanted: (Y/N) N Date Received: 12/9/94

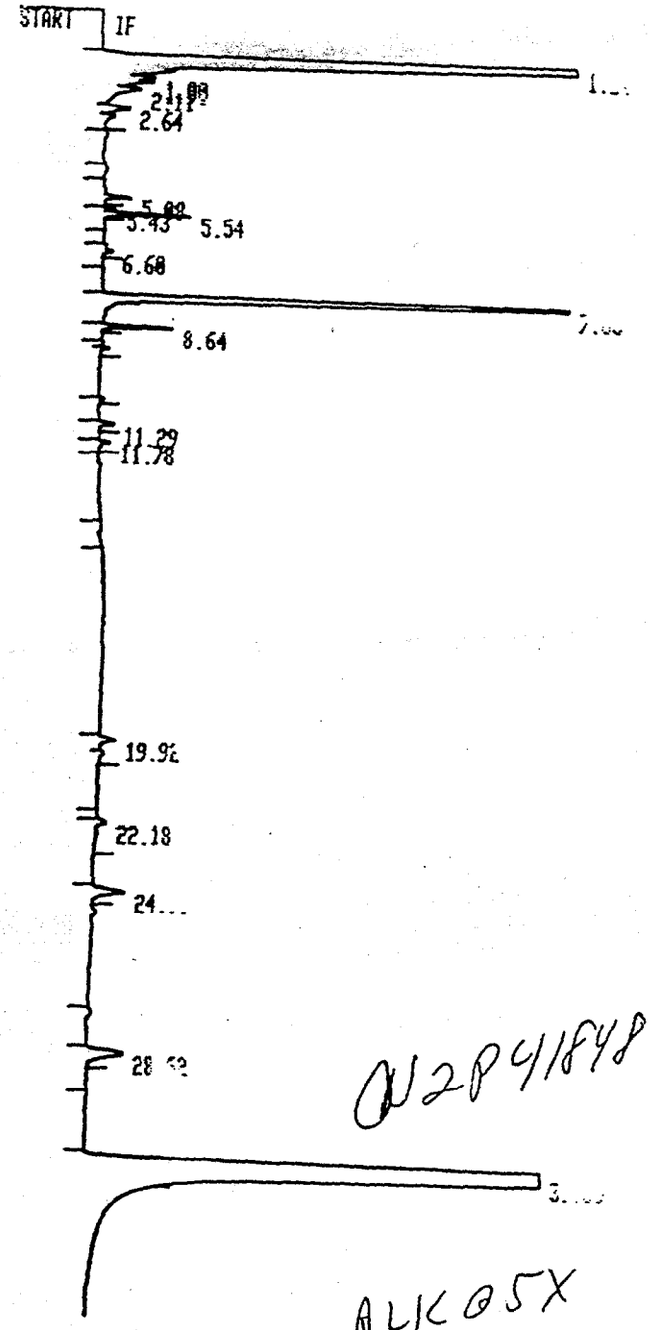
Extraction: (SepF/Cont/Sonc) ~~CLP~~ Sox Date Extracted: 12/18/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/21/94

Injection Volume: ~~1.0~~ 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: N/A Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
12674-11-2	Aroclor-1016		83	U
11104-28-2	Aroclor-1221		83	U
11141-16-5	Aroclor-1232		83	U
53469-21-9	Aroclor-1242		83	U
12672-29-6	Aroclor-1248		83	U
11097-69-1	Aroclor-1254		83	U
11096-82-5	Aroclor-1260		83	U



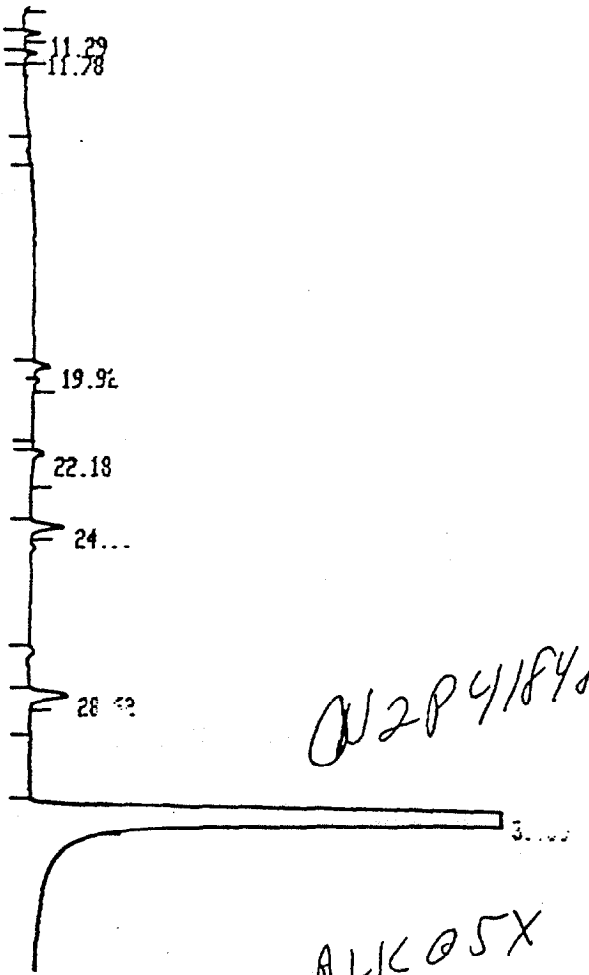
QU2P41848

BLIC05X

RUN # 399 DEC/21/94 22:5. 19
WORKFILE ID: B
WORKFILE NAME:
SAMPLE # 68

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.24	1081400	PB	0.177	14.402
1.80	2929	PB	0.062	0.042
1.91	4096	BB	0.074	0.059
2.11	8360	BB	0.119	0.120
2.64	10170	BB	0.120	0.146
5.08	10044	BB	0.101	0.144
5.54	21212	BB	0.072	0.305
6.68	4758	BB	0.137	0.068
7.83	2225100	PB	0.074	31.899
8.64	18168	BB	0.070	0.261
11.29	5283	PB	0.093	0.076
11.78	3573	PB	0.000	



AU2P41848

ALIC05X

RUN # 399 DEC/21/94 22:5[illegible]:09
WORKFILE ID: B
WORKFILE NAME:
SAMPLE # 68

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.24	1001400	PB	0.177	14.[illegible]02
1.80	2929	PB	0.062	0.042
1.91	4096	BB	0.074	0.059
2.11	8360	BB	0.119	0.120
2.64	10170	BB	0.120	0.146
5.08	10044	BB	0.101	0.144
5.54	21212	BB	0.072	0.305
6.60	4758	BB	0.137	0.068
7.83	2225100	PB	0.074	31.999
8.64	18168	BB	0.070	0.261
11.29	5283	PB	0.093	0.076
11.78	3573	PB	0.089	0.051
19.92	7751	BB	0.144	0.112
22.18	4711	BB	0.139	0.068
24.13	21323	BB	0.188	0.307
28.62	27335	BB	0.209	0.393
31.60	3577400	PB	0.247	51.446

TOTAL AREA= 6953600
MUL FACTOR= 1.0000E+00

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

0256 EPA SAMPLE NO.

PSPK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: CLJ DD Ø

Matrix: (soil/water) SOIL Lab Sample ID: N2P41848PS

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A4R400

% Moisture: _____ decanted: (Y/N) N Date Received: 12/9/94

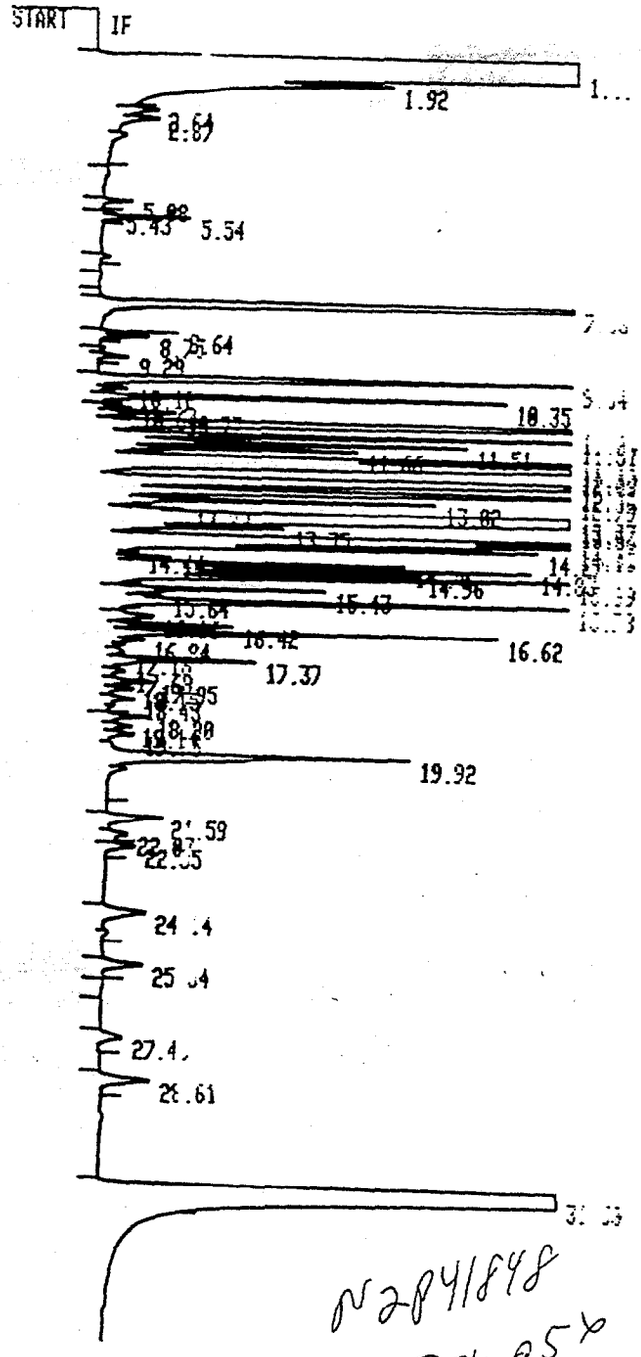
Extraction: (SepF/Cont/Sonc) ~~CLP~~ Sox Date Extracted: 12/18/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/21/94

Injection Volume: ~~1.0~~ 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	83	U
11104-28-2	Aroclor-1221	83	U
11141-16-5	Aroclor-1232	83	U
53469-21-9	Aroclor-1242	83	U
12672-29-6	Aroclor-1248	290	
11097-69-1	Aroclor-1254	83	U
11096-82-5	Aroclor-1260	83	U



N2841848
SPL05A

RUN # 400 DEC/21/94 23:36:48
WORKFILE ID: B
WORKFILE NAME:
SAMPLE # 69

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.18	2.2598E+08	TSBB	0.449	95.215
2.64	9494	BB	0.110	0.004
2.87	10889	BB	0.101	0.005
5.08	8180	PB	0.079	0.004
5.43	1162	PB	0.045	4.8961E-04
5.54	20283	BB	0.071	0.009
7.83	2374700	PB	0.074	1.001
8.64	14396	PB	0.059	0.006
8.75	7850	BB	0.060	0.003
9.29	9612	VB	0.090	0.004
9.84	220170	PB	0.101	0.093
10.12	5945	BB	0.068	0.003
10.35	112089	BB	0.033	

Run 400 AYR 10/21/94 SPK @ 5X N2841848

RT	AREA	TYPE	AR/HT	AREA%
1.18	2.2598E+08	†SBB	0.449	95.215
2.64	9494	BB	0.110	0.004
2.87	10889	BB	0.101	0.005
5.08	8180	PB	0.079	0.004
5.43	1162	PB	0.045	4.8961E-04
5.54	20283	BB	0.071	0.009
7.83	2374700	PB	0.074	1.001
8.64	14396	PB	0.059	0.006
8.75	7850	BB	0.060	0.003
9.29	9612	VB	0.090	0.004
9.84	220170	PB	0.101	0.093
10.12	5945	BB	0.068	0.003
10.35	112080	BB	0.077	0.047
10.64	5061	PB	0.059	0.002
10.77	18861	BB	0.078	0.008
11.04	574390	BB	0.105	0.242
11.31	173310	BB	0.072	0.073
11.51	81474	BB	0.071	0.034
11.66	51981	BB	0.066	0.022
11.90	250960	BB	0.065	0.106
12.03	124500	BB	0.053	0.053
12.13	28754	BB	0.021	0.012
12.46	206120	BB	0.054	0.087
12.57	48301	BB	0.048	0.020
12.79	409160	BB	0.090	0.172
13.02	80885	BB	0.074	0.034
13.27	3661	BB	0.036	0.002
13.37	37925	BB	0.031	0.016
13.45	186040	BB	0.052	0.078
13.56	298820	BB	0.063	0.126
13.75	30127	BB	0.066	0.013
14.01	276750	BB	0.067	0.117
14.13	94794	BB	0.062	0.040
14.27	72545	BB	0.060	0.031
14.44	2432	BB	0.053	0.001
14.57	9046	BB	0.058	0.004
14.70	52314	BB	0.062	0.022
14.83	71861	BB	0.062	0.030
14.96	43274	BB	0.056	0.018
15.09	186480	BB	0.073	0.079
15.43	43865	PB	0.068	[illegible]
15.64	2313	PB	0.044	9.7459E-04
15.78	163580	BB	0.087	0.071
16.16	18507	BB	0.148	0.008
16.42	31403	BB	0.079	0.013
16.62	118240	BB	0.088	0.050
16.84	5304	BB	0.071	0.002
17.18	3805	PB	0.118	0.002
17.37	51446	BB	0.103	0.022
17.68	4628	BB	0.102	0.002
17.95	13243	BB	0.094	0.006
18.15	6711	BB	0.088	0.003
18.43	9950	BB	0.107	0.004
18.90	14140	BB	0.105	0.006
19.14	6352	BB	0.092	0.003
19.35	8777	BB	0.104	0.004
19.92	183450	BB	0.173	0.077
21.59	28914	PB	0.148	0.012
22.03	6962	BB	0.123	0.003
22.35	10161	BB	0.121	0.004
24.14	33864	BB	0.224	0.014
25.54	24925	PB	0.174	0.011
27.45	14936	BB	0.187	0.006
28.61	37221	PB	0.207	0.016
31.60	4295600	PB	0.245	1.310

TOTAL AREA= 2.3733E+08
MUL FACTOR= 1.0000E+00

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

0259

EPA SAMPLE NO.

CLJ-DD-01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: _____ Case No.: 15226N SAS No.: _____ SDG No.: CLJ-DD-01

Matrix: (soil/water) WATER Lab Sample ID: JN6023P

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: ^Z7887

% Moisture: 4 decanted: (Y/N) ___ Date Received: 12/09/94

Extraction: (SepF/Cont/Sonc) CLP Date Extracted: 12/15/94

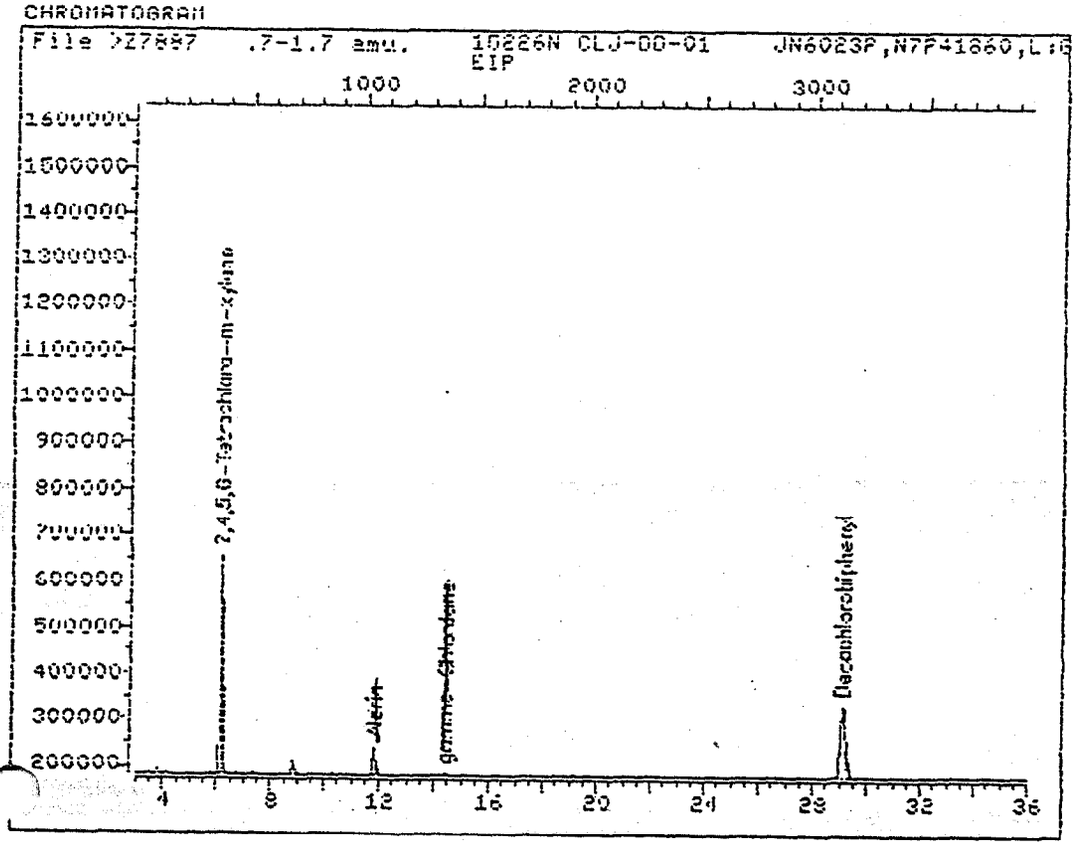
Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/17/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
72-20-8	Endrin	2.0	U
72-43-5	Methoxychlor	2.0	U
8001-35-2	Toxaphene	40	U
57-74-9	Chlordane	20	U
58-89-9	Lindane	2.0	U

CHROMATOGRAM



Data File: >Z7887::D5 Quant Output File: ^Z7887::D5
Name: 10226N CLJ-DD-01 Instrument ID: Z
Misc: JN6023P,N7P41860,L:G2,25,5:1,

Id File: IZPN04::D5
Title: PESTICIDES DB-608 BY GC B2 (FRONT)
Last Calibration: 941104 15:06 Last Qcal Time: <none>

Operator ID: USER2
Quant Time : 941217 23:30
Injected at: 941217 22:50

QUANT REPORT Page 1

Operator ID: USER2 Quant Rev: 7 Quant Time: 941217 23:30
Output File: ^Z7887::D5 Injected at: 941217 22:50
Data File: >Z7887::D5 Dilution Factor: 1.00000
Name: 15226N CLJ-DD-01 Instrument ID: Z
Misc: JN6023P,N7P41860,L:G2,25,5:1,

ID File: IZPNM4::D5
Title: PESTICIDES DB-608 BY GC B2 (FRONT)
Last Calibration: 941104 15:06 Last Qcal Time: <none>

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#2,4,5,6-Tetrachloro-m-xylene	6.13	376	2283885	.437	ug/ml	100
8)	#Aldrin	11.81	1058	372766	~~.0476~~	~~ug/ml~~	100
10)	#gamma-Chlordane	14.38	1366	25472	~~.00447~~	~~ug/ml~~	100
23)	#Decachlorobiphenyl	29.08	3130	1960823	~~.322~~	ug/ml	100

Compound uses ESTD

.263 cc for DCB-4

2L

LEACHATE PESTICIDE SURROGATE RECOVERY

0262

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: CLJ-DD-01

GC Column(1): DB608 ID: 0.53 (mm) GC Column(2): DB5 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK01	86		65				0
02	PSPK01	78		43				0
03	A01SS-101MS	76		84				0
04	A01SS-101MSD	78		82				0
~~05~~	~~A01SS-105~~	~~89~~		~~84~~				~~0~~
~~06~~	~~A01SS-106~~	~~95~~		~~87~~				~~0~~
07	CLJ-DD-01	87		53				0
~~08~~	~~A01SS-104~~	~~101~~		~~85~~				~~0~~
09	A01SS-101	83		82				0

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring compound diluted out

3L
LEACHATE PESTICIDE MATRIX SPIKE RECOVERY

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: CLJ-DD-01

Matrix Spike - EPA Sample No.: A01SS-101

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Lindane	220	0	220	97	30-130
Gamma-BHC	220	0	220	97	30-130
Heptachlor	9.7	0	9.5	98	30-130
Heptachlor epoxide	10	0	12	114	30-130
gamma-Chlordane	23	0	22	97	30-130
alpha-Chlordane	22	0	23	104	30-130
Endrin	21	0	26	121	30-130
Methoxychlor	190	0	230	122	30-130
Chlordane	45	0	45	100	30-130

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

* Values outside of QC limits

Spike Recovery: 0 out of 9 outside limits

COMMENTS: _____

LEACHATE PESTICIDE MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ANALYTICAL SERVICES CORP. Contract: DESA

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: CLJ-DD-01

Matrix Spike - EPA Sample No.: A01SS-101

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Lindane	220	220	100	3	20	30-130
Gamma-BHC	220	220	100	3	20	30-130
Heptachlor	9.7	9.0	93	5	20	30-130
Heptachlor epoxide	10	12	116	2	20	30-130
gamma-Chlordane	23	21	94	4	20	30-130
alpha-Chlordane	22	22	101	3	20	30-130
Endrin	21	26	122	2	20	30-130
Methoxychlor	190	220	120	2	20	30-130
Chlordane	45	44	97	3	20	30-130

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

* Values outside of QC limits

RPD: 0 out of 9 outside limits
Spike Recovery: 0 out of 9 outside limits

COMMENTS: _____

3L

LEACHATE PESTICIDE BLANK SPIKE RECOVERY

0265

Lab Name: ANALYTICAL SERVICES CORP. Contract: NESA

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: ELJ-DD-01

Matrix Spike - EPA Sample No.: PSPK01

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC LIMITS REC.
Lindane	220	0	220	98	30-130
Gamma-BHC	220	0	220	98	30-130
Heptachlor	9.7	0	10	107	30-130
Heptachlor epoxide	10	0	11	113	30-130
gamma-Chlordane	23	0	25	108	30-130
alpha-Chlordane	22	0	25	113	30-130
Endrin	21	0	26	121	30-130
Methoxychlor	190	0	220	118	30-130
Chlordane	45	0	50	110	30-130

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

* Values outside of QC limits

Spike Recovery: 0 out of 9 outside limits

COMMENTS: _____

4C

PESTICIDE METHOD BLANK SUMMARY

0266 EPA SAMPLE NO.

PBLK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NESA

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: CLJ-DD-01

Lab Sample ID: N7P41860P Lab File ID: _____

Matrix: (soil/water) WATER Extraction: (SepF/Cont/Sonc) CLP

Sulfur Cleanup: (Y/N) __ Date Extracted: ~~2/~~ER 12/15/94

Date Analyzed (1): 12/17/94 Date Analyzed (2): _____

Time Analyzed (1): 16:51 Time Analyzed (2): _____

Instrument ID (1): Z Instrument ID (2): _____

GC Column (1): DB608 ID: 0.53 (mm) GC Column (2): _____ ID: _____ (mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PSPK01	N7P41860PS	12/17/94	
02	A01SS-101MS	JN5813PS	12/17/94	
03	A01SS-101MSD	JN5813PR	12/17/94	
~~04~~	~~A01SS-105~~	~~JN6026P~~	~~12/17/94~~	
~~05~~	~~A01SS-106~~	~~JN6027P~~	~~12/17/94~~	
06	CLJ-DD-01	JN6023P	12/17/94	
~~07~~	~~A01SS-104~~	~~JN6025P~~	~~12/17/94~~	
08	A01SS-101	JN5813P	12/17/94	

COMMENTS:

Calibration Report

Title: PESTICIDES 08-608 BY ECD/GC (R2 FRONT)
Calibrated: 941104 14:57

Compound	Files: >Z7209 RF .0200	>Z7210 RF .0500	>Z7211 RF .100	>Z7212 RF 1.00	>Z7213 RF 2.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	
2,4,5,6-Tetrachloro-m-xylene	5752000	5922560	5910410	4564374	3981938	6.413	5226257	17.156	.997690	
Alpha-BHC	4753600	6409600	7578280	7230587	6514998	8.667	6497414	16.780	.998528	
Lindane	4732800	6075520	6912360	6423865	5836578	9.992	5996225	13.575	.998782	
Gamma-BHC	4732800	6075520	6912360	6423865	5836578	9.992	5996225	13.575	.998782	
Beta-BHC	3512000	3723520	3850880	3309275	2983235	10.217	3475782	9.901	.998664	
Heptachlor	6582350	7095040	7409980	6290621	5614791	11.100	6598557	10.629	.998376	
Delta-BHC	3673600	4836480	5825620	5881037	5391098	11.473	5121567	17.796	.998956	
Aldrin	5161550	5514860	6087360	5688587	5135701	12.230	5517611	7.173	.998642	
Heptachlor epoxide	5519950	5818240	6072030	5303897	4795312	14.135	5501886	8.922	.998734	
gamma-Chlordane	5657600	5897620	6197480	5631168	5111452	14.683	5699064	7.016	.998820	
alpha-Chlordane	5643150	6035800	6293760	5427263	4907466	15.230	5661489	9.527	.998740	
Endosulfan I	4232300	4925960	5260120	4539867	4037634	15.332	4599176	10.856	.998235	
4,4'-DDE	3815950	4327640	4995160	5025781	4590474	16.073	4551002	11.066	.998893	
Dieldrin	4284800	4721940	5283180	5270309	4827820	16.372	4877610	8.557	.998978	
Endrin	3512000	3804780	4282250	4421003	4099426	17.613	4023892	9.133	.999230	
4,4'-DDD	2691200	3191660	3724150	3900725	3595850	17.933	3420717	14.155	.999086	
[illegible]sulfan II	4153550	4369260	4635830	4306614	3961118	18.208	4285275	5.867	.999119	
[illegible]'-DDT	3020800	3413100	3888600	4135487	3875567	18.940	3666711	12.152	.999414	
Endrin aldehyde	3892750	3836140	3899840	3536250	3253446	19.300	3683685	7.684	.999156	
Endosulfan sulfate	3614350	3822700	4081280	4017443	3735813	19.708	3854317	5.037	.999319	
Methoxychlor	2343950	2433920	2531180	2389652	2248342	22.272	2389409	4.392	.999543	
Endrin ketone	3971150	4491520	5004810	4984447	4604841	22.908	4611354	9.189	.999167	
Decachlorobiphenyl	7413250	6985860	6657430	4957610	4447639	30.227	6092358	21.488	.998650	
Hexachlorocyclopentadiene	-	-	-	-	-	-	-	-	-	(Conc=.0200,.0400,.100,1.0
Hexachlorobenzene	-	-	-	-	-	-	-	-	-	(Conc=.0206,.0412,.103,1.0

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

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

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

Calibration Check Report

Title: PESTICIDES 08-608 BY ECD/GC (B2 FRONT)
Calibrated: 941104 14:57

Check Standard Data File: >27902
Injection Time: 941218 10:04

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
2,4,5,6-Tetrachloro-m-xylene	5226257	5463666	4.54	Average	(Conc=.938)
Alpha-BHC	6497414	6763064	4.09	Average	(Conc=1.25)
Lindane	5996225	6549586	9.23	Average	(Conc=1.17)
Gamma-BHC	5996225	6549586	9.23	Average	(Conc=1.17)
Beta-BHC	3476782	3731483	7.36	Average	(Conc=1.01)
Heptachlor	6598557	6712364	1.72	Average	(Conc=.980)
Delta-BHC	5121567	6098725	19.08	Average	(Conc=1.20)
Aldrin	5517611	5576816	1.07	Average	(Conc=1.14)
Heptachlor epoxide	5501886	5813557	5.66	Average	(Conc=1.04)
gamma-Chlordane	5699064	6408481	12.45	Average	(Conc=1.03)
alpha-Chlordane	5661489	5983897	5.69	Average	(Conc=1.00)
Endosulfan I	4599176	4766499	3.64	Average	(Conc=1.18)
4,4'-DDE	4551882	4866764	6.94	Average	(Conc=1.20)
Dieldrin	4877610	5261579	7.87	Average	(Conc=1.15)
Endrin	4023892	4467049	11.01	Average	(Conc=1.21)
4,4'-DDD	3420717	3606881	5.44	Average	(Conc=1.25)
Endosulfan II	4285275	4653248	8.59	Average	(Conc=1.14)
4,4'-DDT	3666711	4091746	11.59	Average	(Conc=1.21)
Endrin aldehyde	3683685	4197291	13.94	Average	(Conc=.968)
Endosulfan sulfate	3854317	4339604	12.59	Average	(Conc=1.08)
Methoxychlor	2389409	2677640	12.06	Average	(Conc=1.06)
Endrin ketone	4611354	5570118	20.79	Average	(Conc=1.02)
Decachlorobiphenyl	6092358	7548708	23.90	Average	(Conc=.824)
Hexachlorocyclopentadiene	-	-	-	Average	(Conc=1.00)
Hexachlorobenzene	-	-	-	Average	(Conc=1.00)

RF - Response Factor from daily standard file at 1.00 ug/ml

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

%Diff - % Difference from original average or curve

Calibration Check Report

Title: PESTICIDES 08-608 BY ECD/GC (62 FRONT)
Calibrated: 941104 14:57

Check Standard Data File: >Z7878
Injection Time: 941217 15:24

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
2,4,5,6-Tetrachloro-m-xylene	5226257	5357295	2.51	Average	(Conc=.938)
Alpha-BHC	6497414	6620396	1.89	Average	(Conc=1.25)
Lindane	5996225	6428672	7.21	Average	(Conc=1.17)
Gamma-BHC	5996225	6428672	7.21	Average	(Conc=1.17)
Beta-BHC	3475782	3662285	5.37	Average	(Conc=1.01)
Heptachlor	6598557	6611691	.20	Average	(Conc=.980)
Delta-BHC	5121567	5765077	12.56	Average	(Conc=1.20)
Aldrin	5517611	5488481	.53	Average	(Conc=1.14)
Heptachlor epoxide	5501886	5717930	3.93	Average	(Conc=1.04)
gamma-Chlordane	5699064	6353277	11.48	Average	(Conc=1.03)
alpha-Chlordane	5661489	6177657	9.12	Average	(Conc=1.00)
Endosulfan I	4599176	4467546	2.86	Average	(Conc=1.18)
4,4'-DDE	4551002	4816395	5.83	Average	(Conc=1.20)
Dieldrin	4877610	5177906	6.16	Average	(Conc=1.15)
Endrin	4023892	4270896	6.14	Average	(Conc=1.21)
4,4'-DDD	3420717	3508552	2.57	Average	(Conc=1.25)
Endosulfan II	4285275	4561191	6.44	Average	(Conc=1.14)
4,4'-DDT	3666711	4134167	12.75	Average	(Conc=1.21)
Endrin aldehyde	3683685	4153685	12.76	Average	(Conc=.968)
Endosulfan sulfate	3854317	4208715	9.19	Average	(Conc=1.08)
Methoxychlor	2389409	2649142	10.87	Average	(Conc=1.06)
Endrin ketone	4611354	5452009	18.23	Average	(Conc=1.02)
Decachlorobiphenyl	6092358	7452358	22.32	Average	(Conc=.824) CC
Hexachlorocyclopentadiene	-	-	-	Average	(Conc=1.00)
Hexachlorobenzene	-	-	-	Average	(Conc=1.00)

TCLP only

RF - Response Factor from daily standard file at 1.00 ug/ml

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

%Diff - % Difference from original average or curve

Calibration Check Report

Title: PESTICIDES DB-608 BY ECD/GC (B2 FRONT)
Calibrated: 941104 14:57

Check Standard Data File: >Z7890
Injection Time: 941218 01:05

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
2,4,5,6-Tetrachloro-m-xylene	5226257	5465168	4.57	Average	(Conc=.938)
Alpha-BHC	6497414	6744041	3.80	Average	(Conc=1.25)
Lindane	5996225	6543516	9.13	Average	(Conc=1.17)
Gamma-BHC	5996225	6543516	9.13	Average	(Conc=1.17)
Beta-BHC	3475782	3724163	7.15	Average	(Conc=1.01)
Heptachlor	6598557	6700158	1.54	Average	(Conc=.980)
Delta-BHC	5121567	6025523	17.65	Average	(Conc=1.20)
Aldrin	5517611	5562135	.81	Average	(Conc=1.14)
Heptachlor epoxide	5501886	5801928	5.45	Average	(Conc=1.04)
gamma-Chlordane	5699864	6436100	12.93	Average	(Conc=1.03)
alpha-Chlordane	5661489	6180860	9.17	Average	(Conc=1.00)
Endosulfan I	4599176	4590418	.19	Average	(Conc=1.18)
4,4'-DDE	4551002	4863695	6.87	Average	(Conc=1.20)
Dieldrin	4877618	5260410	7.85	Average	(Conc=1.15)
Endrin	4023892	4336265	7.76	Average	(Conc=1.21)
4,4'-DDD	3428717	3581614	4.70	Average	(Conc=1.25)
Endosulfan II	4285275	4653321	8.59	Average	(Conc=1.14)
4,4'-DDT	3666711	4103514	11.91	Average	(Conc=1.21)
Endrin aldehyde	3683685	4222299	14.62	Average	(Conc=.968)
Endosulfan sulfate	3854317	4308414	11.78	Average	(Conc=1.08)
Methoxychlor	2389409	2661882	11.40	Average	(Conc=1.06)
Endrin ketone	4611354	5555519	20.47	Average	(Conc=1.02)
Decachlorobiphenyl	6092358	7515936	23.37	Average	(Conc=.824)
Hexachlorocyclopentadiene	-	-	-	Average	(Conc=1.00)
Hexachlorobenzene	-	-	-	Average	(Conc=1.00)

RF - Response Factor from daily standard file at 1.00 ug/ml

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

%Diff - % Difference from original average or curve

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

0271 EPA SAMPLE NO.

PBLK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: _____ Case No.: 15226N SAS No.: _____ SDG No.: CLJ-DD-01

Matrix: (soil/water) WATER Lab Sample ID: N7P41860P

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: ^Z7879

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

Extraction: (SepF/Cont/Sonc) CLP Date Extracted: 12/15/94

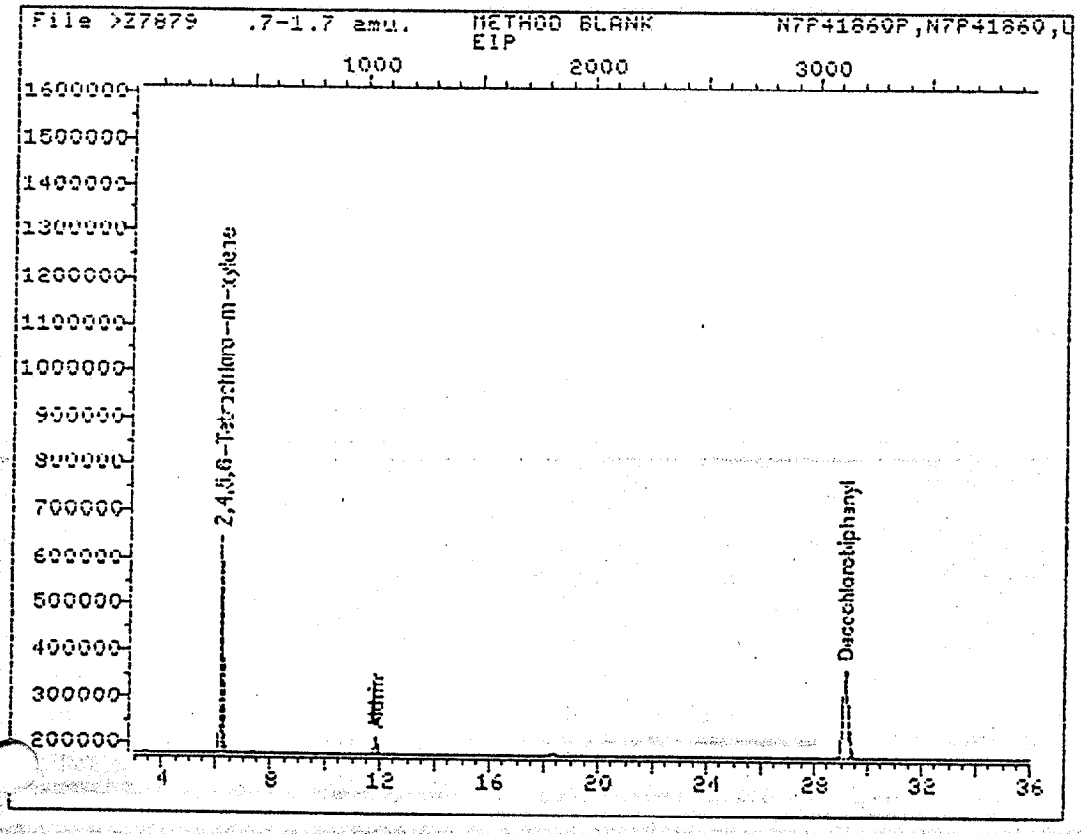
Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/17/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
72-20-8	Endrin	2.0	U
72-43-5	Methoxychlor	2.0	U
8001-35-2	Toxaphene	40	U
57-74-9	Chlordane	20	U
58-89-9	Lindane	2.0	U

CHROMATOGRAM



Data File: >Z7879::D5 Quant Output File: ^Z7879::D5
Name: METHOD BLANK Instrument ID: Z
Misc: N7P41860P,N7P41860,L:G2,25,5:1,

Id File: IZPN04::D5
Title: PESTICIDES DB-608 BY GC B2 (FRONT)
Last Calibration: 941104 15:06 Last Qcal Time: <none>

Operator ID: USER2
Quant Time : 941217 17:32
Injected at: 941217 16:51

QUANT REPORT Page 1

Operator ID: USER2 Quant Rev: 7 Quant Time: 941217 17:32
Output File: ^Z7879::D5 Injected at: 941217 16:51
Data File: >Z7879::D5 Dilution Factor: 1.00000
Name: METHOD BLANK Instrument ID: Z
Misc: N7P41860P,N7P41860,L:G2,25,5:1,

ID File: [ZPN04::D5
Title: PESTICIDES DB-608 BY GC 82 (FRONT)
Last Calibration: 941104 15:06 Last Qcal Time: <none>

One

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#2,4,5,6-Tetrachloro-m-xylene	6.13	377	2258828	.432	ug/ml	100
8)	#Aldrin	11.81	1058	210591	~~.0382~~	ug/ml	100
23)	#Decachlorobiphenyl	29.09	3132	2413867	~~.396~~ .324	ug/ml CC	100

Compound uses ESTD

for DC BP

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

0274 EPA SAMPLE NO.

A01SS-101

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: _____ Case No.: 15226N SAS No.: _____ SDG No.: CLJ-DD-01

Matrix: (soil/water) WATER Lab Sample ID: JN5813P

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: ^Z7883

% Moisture: 26 decanted: (Y/N) ___ Date Received: 12/03/94

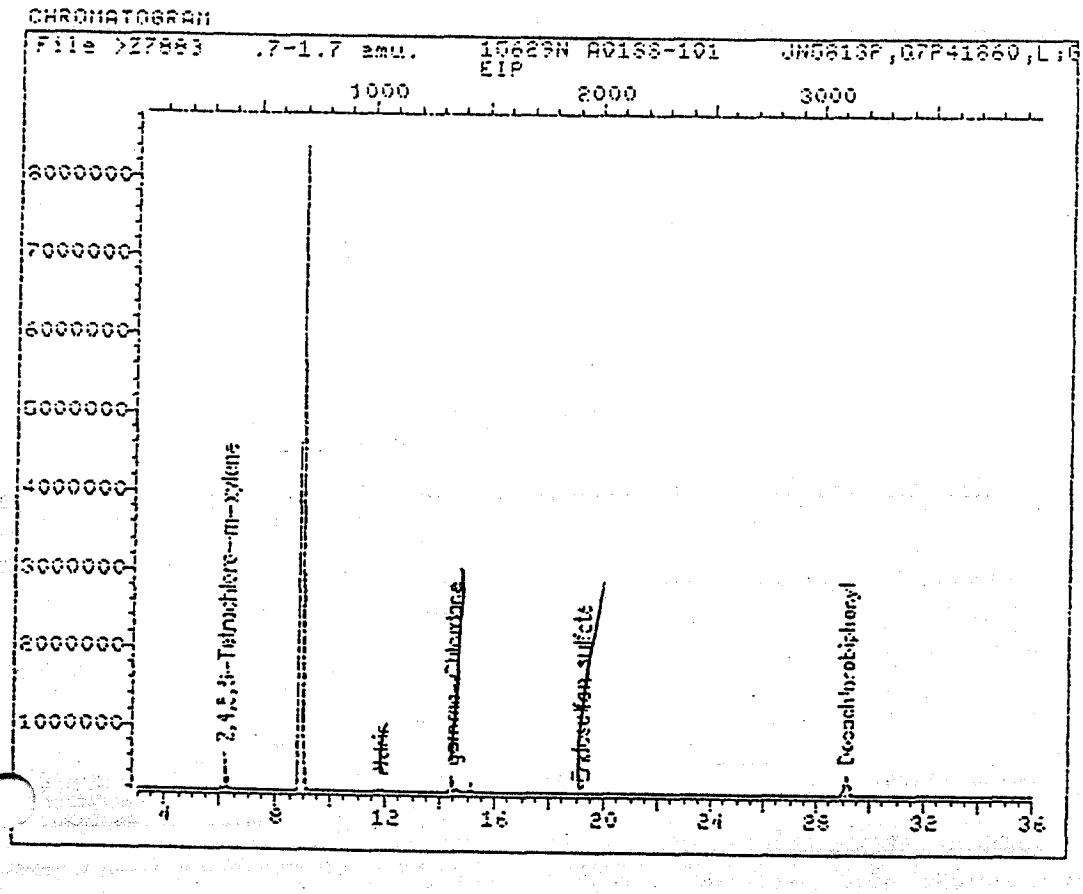
Extraction: (SepF/Cont/Sonc) CLP Date Extracted: 12/15/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/17/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
72-20-8	Endrin	2.0	U
72-43-5	Methoxychlor	2.0	U
8001-35-2	Toxaphene	40	U
57-74-9	Chlordane	20	U
58-89-9	Lindane	2.0	U



Data File: >Z7883::D5 Quant Output File: ^Z7883::D5
Name: 15629N A01SS-101 Instrument ID: Z
Misc: JN5813P,Q7P41860,L:G2,25,5:1,

Id File: IZPN04::D5
Title: PESTICIDES DB-608 BY GC B2 (FRONT)
Last Calibration: 941104 15:06 Last Qcal Time: <none>

Operator ID: USER2
Quant Time : 941217 20:32
Injected at: 941217 19:51

QUANT REPORT Page 1

Operator ID: USER2 Quant Rev: 7 Quant Time: 941217 20:32
Output File: ^Z7883::05 Injected at: 941217 19:51
Data File: >Z7883::05 Dilution Factor: 1.00000
Name: 15629N AA1SS-101 Instrument ID: Z
Misc: JN5813P,WP41860,L:G2,25,5:1,

ID File: IZPN04::05
Title: PESTICIDES 08-608 BY GC G2 (FRONT)
Last Calibration: 941104 15:06 Last Qcal Time: <none>

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#2,4,5,6-Tetrachloro-m-xylene	6.13	377	2168460	.415	ug/ml	100
8)	#Aldrin	11.81	1058	410144	~~.0747~~	~~ug/ml~~	100
10)	#gamma-Chlordane	14.38	1366	1085482	~~.198~~	~~ug/ml~~	100
20)	#Endosulfan sulfate	19.13	1936	26815	~~.00696~~	~~ug/ml~~	100
23)	#Decachlorobiphenyl	29.08	3130	3072130	~~.564~~	ug/ml	100

Compound uses ESTD

1.412 cc for DCBP

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

0277 EPA SAMPLE NO.

A01SS-101MS

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: _____ Case No.: 15226N SAS No.: _____ SDG No.: CLJ-DD-01

Matrix: (soil/water) WATER Lab Sample ID: JN5813PS

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: ^Z7881

% Moisture: 26 decanted: (Y/N) ___ Date Received: 12/03/94

Extraction: (SepF/Cont/Sonc) CLP Date Extracted: 12/15/94

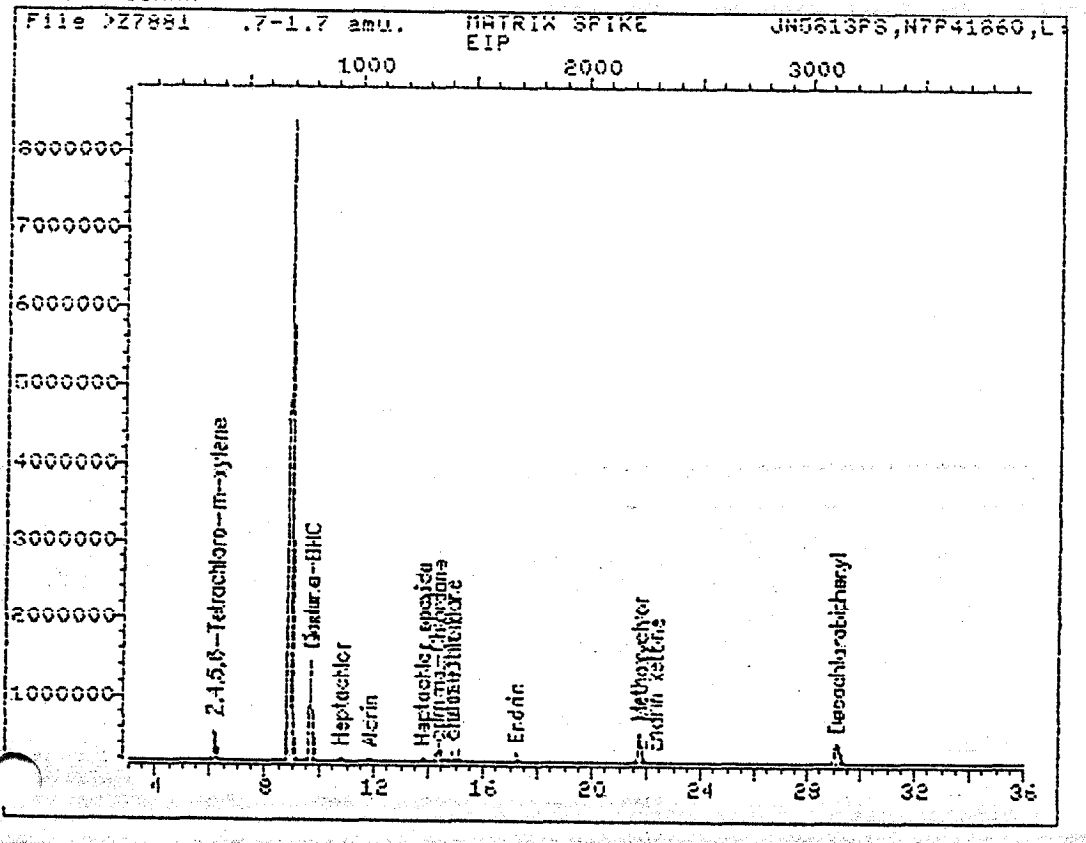
Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/17/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
76-44-8	Heptachlor	9.5	
1024-57-3	Heptachlor epoxide	12	
72-20-8	Endrin	26	
72-43-5	Methoxychlor	230	
8001-35-2	Toxaphene	40	U
57-74-9	Chlordane	45	
58-89-9	Lindane	220	

CHROMATOGRAM



Data File: >Z7881::D5 Quant Output File: ^Z7881::D5
Name: MATRIX SPIKE Instrument ID: Z
Misc: JN5813PS,N7P41860,L:G2,25,5:1,

Id File: IZPN04::D5
Title: PESTICIDES DB-608 BY GC B2 (FRONT)
Last Calibration: 941104 15:06 Last Qcal Time: <none>

Operator ID: USER2
Quant Time : 941217 19:02
Injected at: 941217 18:21

QUANT REPORT Page 1

Operator ID: USER2 Quant Rev: 7 Quant Time: 941217 19:02
Output File: ^Z7881::D5 Injected at: 941217 18:21
Data File: >Z7881::D5 Dilution Factor: 1.00000
Name: MATRIX SPIKE Instrument ID: Z
Misc: JN5813PS,N7P41860,L:G2,25,5:1,

ID File: IZPN04::D5
Title: PESTICIDES DB-608 BY GC 82 (FRONT)
Last Calibration: 941104 15:06 Last Qcal Time: <none>

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#2,4,5,6-Tetrachloro-m-xylene	6.13	377	1997705	.382	ug/ml	100
3)	#Lindane	9.63	797	6457207	1.08	ug/ml	100
4)	#Gamma-BHC	9.63	797	6457207	1.08	ug/ml	100
6)	#Heptachlor	10.72	927	312415	.0473	ug/ml	100
8)	#Aldrin	11.81	1058	226943	~~.0411 ug/ml~~		100
9)	#Heptachlor epoxide	13.73	1288	318175	.0578	ug/ml	100
10)	#gamma-Chlordane	14.27	1353	630753	.111	ug/ml	100
)	#alpha-Chlordane	14.81	1418	652350	.115	ug/ml	100
)	#Endosulfan I	14.81	1418	652350	~~.142 ug/ml~~		100
15)	#Endrin	17.17	1701	520386	.129	ug/ml	100
21)	#Methoxychlor	21.68	2243	2719110	1.14	ug/ml	100
22)	#Endrin ketone	22.25	2311	20864	~~.00452 ug/ml~~		100
23)	#Decachlorobiphenyl	29.08	3130	3138328	~~515~~	ug/ml	100

Compound uses ESTD

.421 Cfm DCBP

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

0280 EPA SAMPLE NO.

A01SS-101MSD

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: _____ Case No.: 15226N SAS No.: _____ SDG No.: CLJ-DD-01

Matrix: (soil/water) WATER Lab Sample ID: JN5813PR

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: ^Z7882

% Moisture: 26 decanted: (Y/N) ___ Date Received: 12/03/94

Extraction: (SepF/Cont/Sonc) CLP Date Extracted: 12/15/94

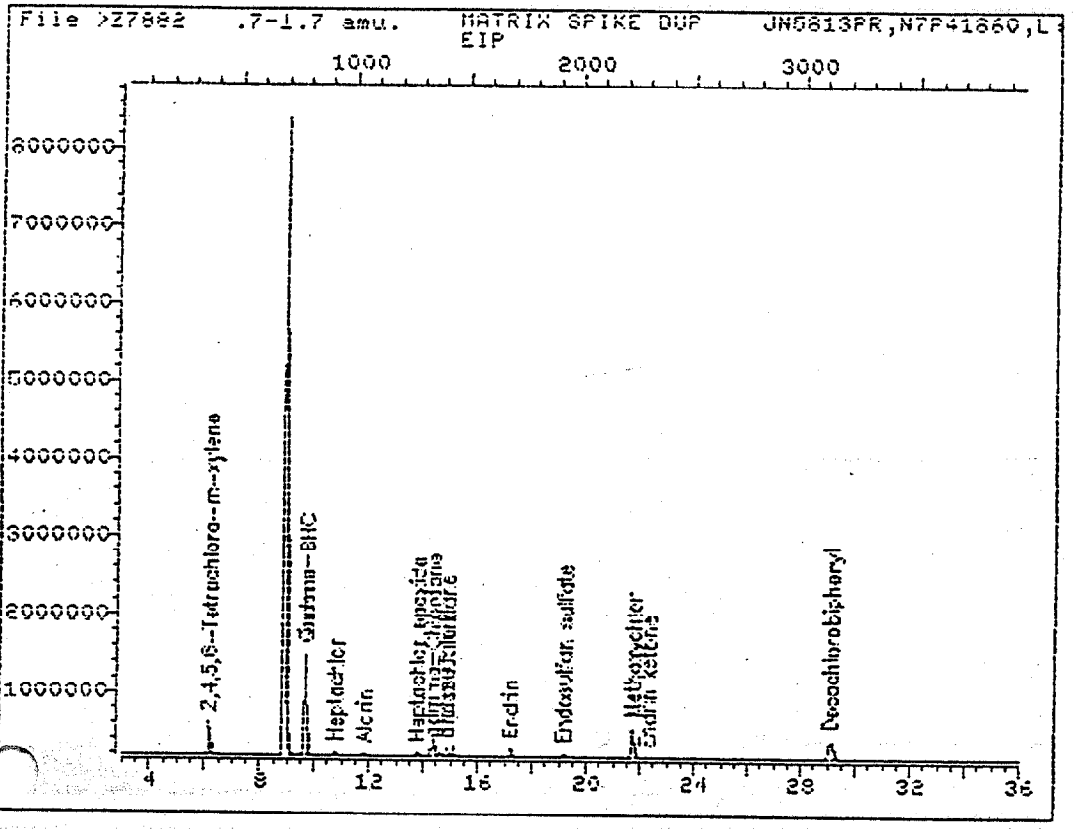
Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/17/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
76-44-8	Heptachlor	9.0	J
1024-57-3	Heptachlor epoxide	12	J
72-20-8	Endrin	26	J
72-43-5	Methoxychlor	220	
8001-35-2	Toxaphene	40	U
57-74-9	Chlordane	44	J
58-89-9	Lindane	220	

CHROMATOGRAM



Data File: >Z7882::D5 Quant Output File: ^Z7882::D5
Name: MATRIX SPIKE DUP Instrument ID: Z
Misc: JN5813PR,N7P41860,L:B2,25,5:1,

Id File: IZPN04::D5
Title: PESTICIDES 08-608 BY GC B2 (FRONT)
Last Calibration: 941104 15:06 Last Qcal Time: <none>

Operator ID: USER2
Quant Time : 941217 19:47
Injected at: 941217 19:06

QUANT REPORT Page 1

Operator ID: USER2 Quant Rev: 7 Quant Time: 941217 19:47
Output File: ^Z7882::D5 Injected at: 941217 19:06
Data File: >Z7882::D5 Dilution Factor: 1.00000
Name: MATRIX SPIKE DUP Instrument ID: Z
Misc: JN5R13PR,N7P41860,L:G2,25,5:1,

ID File: IZPN04::D5
Title: PESTICIDES DB-608 BY GC B2 (FRONT)
Last Calibration: 941104 19:06 Last Qcal Time: <none>

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#2,4,5,6-Tetrachloro-m-xylene	6.13	376	2026313	.388	ug/ml	100
3)	#Lindane	9.63	797	6669782	1.11	ug/ml	100
4)	#Gamma-BHC	9.63	797	6669782	1.11	ug/ml	100
6)	#Heptachlor	10.72	927	297343	.0451	ug/ml	100
8)	#Aldrin	11.81	1058	335806	~~.0609~~	~~ug/ml~~	100
9)	#Heptachlor epoxide	13.73	1288	323920	.0588	ug/ml	100
10)	#gamma-Chlordane	14.27	1353	609029	.107	ug/ml	100
11)	#alpha-Chlordane	14.81	1418	632606	.112	ug/ml	100
12)	#Endosulfan I	14.81	1418	632606	~~.176~~	~~ug/ml~~	100
15)	#Endrin	17.17	1701	528894	.131	ug/ml	100
20)	#Endosulfan sulfate	19.12	1935	383521	~~.0995~~	~~ug/ml~~	100
21)	#Methoxychlor	21.67	2242	2679558	1.12	ug/ml	100
22)	#Endrin ketone	22.25	2311	20192	~~.00473~~	~~ug/ml~~	100
23)	#Decachlorobiphenyl	29.08	3130	3061264	~~.502~~	ug/ml	100

Compound uses ESTD

.411 CCfor DCBP

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PSPK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: _____ Case No.: 15226N SAS No.: _____ SDG No.: CLJ-DD-01

Matrix: (soil/water) WATER Lab Sample ID: N7P41860PS

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: ^Z7880

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

Extraction: (SepF/Cont/Sonc) CLP Date Extracted: 12/15/94

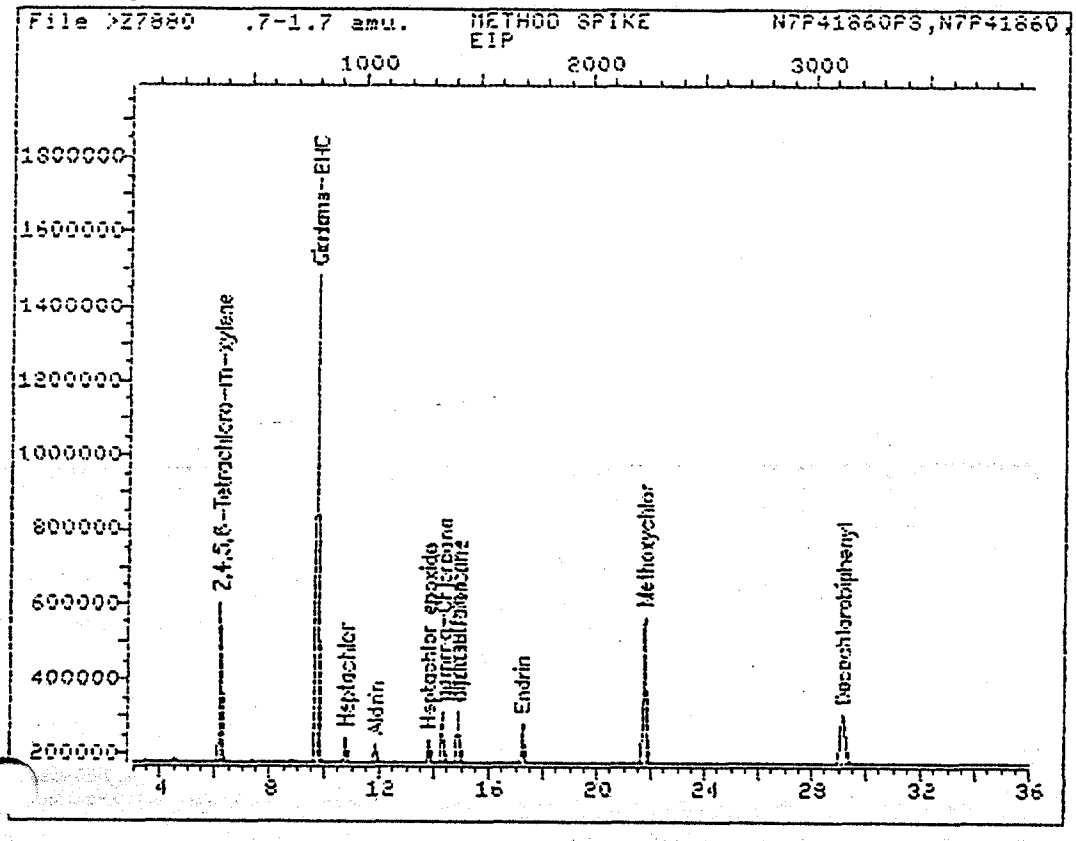
Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/17/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
76-44-8	Heptachlor	10	
1024-57-3	Heptachlor epoxide	11	
72-20-8	Endrin	26	
72-43-5	Methoxychlor	220	
8001-35-2	Toxaphene	40	U
57-74-9	Chlordane	50	
58-89-9	Lindane	220	

CHROMATOGRAM



Data File: >Z7880::D5 Quant Output File: ^Z7880::D5
Name: METHOD SPIKE Instrument ID: Z
Misc: N7P41860PS,N7P41860,L:G2,25,5:1,

Id File: IZPN04::D5
Title: PESTICIDES 08-608 BY GC B2 (FRONT)
Last Calibration: 941104 15:06 Last Qcal Time: <none>

Operator ID: USER2
Quant Time : 941217 18:17
Injected at: 941217 17:36

QUANT REPORT Page 1

Operator ID: USER2 Quant Rev: 7 Quant Time: 941217 18:17
Output File: ^Z7880::05 Injected at: 941217 17:36
Data File: >Z7880::05 Dilution Factor: 1.00000
Name: METHOD SPIKE Instrument ID: Z
Misc: N7P41860PS,N7P41860,L:G2,25,5:1,

ID File: IZPN04::05
Title: PESTICIDES DB-608 BY GC B2 (FRONT)
Last Calibration: 941104 15:06 Last Qcal Time: <none>

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#2,4,5,6-Tetrachloro-m-xylene	6.13	377	2038538	.390	ug/ml	100
3)	#Lindane	9.63	797	6549326	1.09	ug/ml	100
4)	#Gamma-BHC	9.63	797	6549326	1.09	ug/ml	100
6)	#Heptachlor	10.73	928	340739	.0516	ug/ml	100
8)	#Aldrin	11.81	1058	270016	~~.0489~~	~~ug/ml~~	100
9)	#Heptachlor epoxide	13.73	1288	313567	.0570	ug/ml	100
10)	#gamma-Chlordane	14.27	1353	701669	.123	ug/ml	100
11)	#alpha-Chlordane	14.81	1418	708134	.125	ug/ml	100
12)	#Endosulfan I	14.81	1418	708134	~~.154~~	~~ug/ml~~	100
15)	#Endrin	17.17	1701	517566	.129	ug/ml	100
21)	#Methoxychlor	21.68	2243	2653191	1.11	ug/ml	100
23)	#Decachlorobiphenyl	29.08	3131	1604764	~~.263~~	ug/ml	100

Compound uses ESTD

.215

CC for DCB?

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

0286 EPA SAMPLE NO.

CLJ-DD-01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NESA

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: CLJ-DD-01

Matrix: (soil/water) WATER Lab Sample ID: JN6023H

Sample wt/vol: 2.00 (g/mL) ML Lab File ID: ^H0888

% Moisture: 4 decanted: (Y/N) N Date Received: 12/09/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 12/14/94

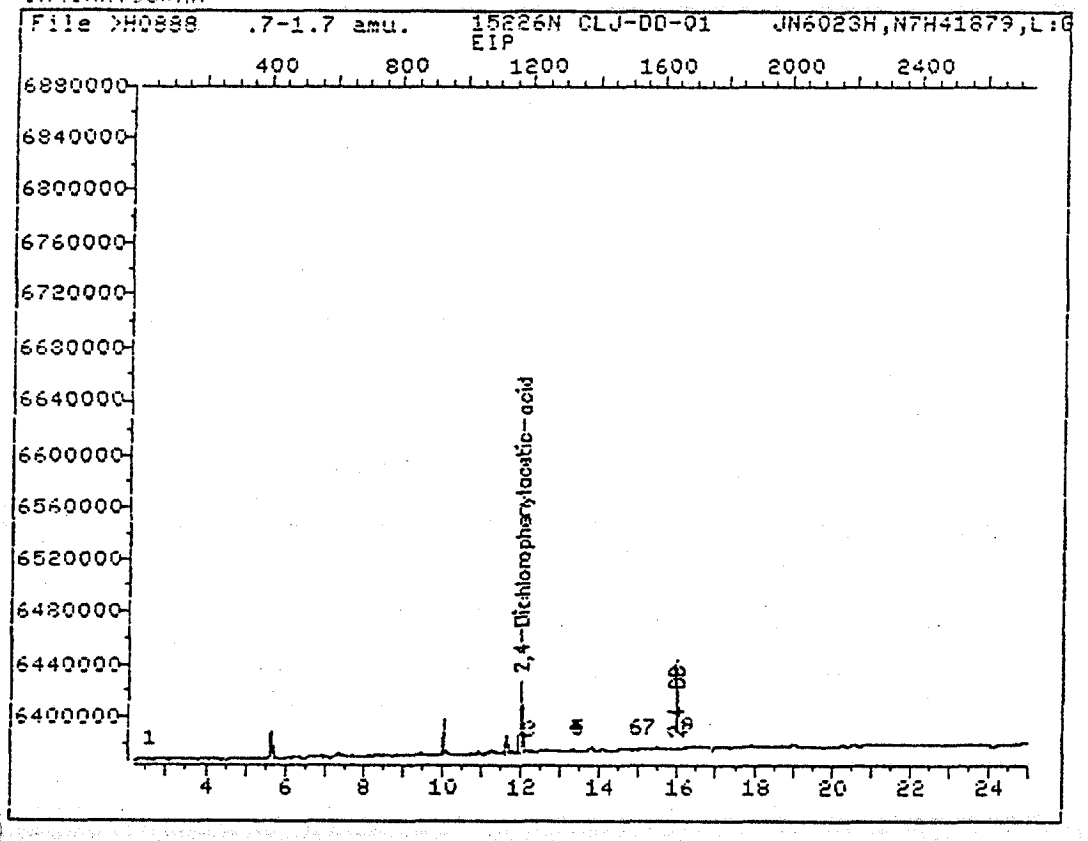
Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/17/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
93-72-1	2,4,5-TP (Silvex)	250	U
94-75-7	2,4-D	250	U

CHROMATOGRAM



Data File: >H0888::D2 Quant Output File: ^H0888::D2
Name: 15226N CLJ-DD-01 Instrument ID: H
Misc: JN6023H,N7H41879,L:G1,2,5:1,

Id File: IHHD09::D2
Title: Herbicides by Method 8150 DB-5 ECD IHHD07
Last Calibration: 941214 10:16 Last Qcal Time: <none>

Operator ID: USER5
Quant Time : 941217 16:13
Injected at: 941217 15:47

QUANT REPORT Page 1

Operator ID: USER5 Quant Rev: 7 Quant Time: 941217 16:13
Output File: ^H0888::D2 Injected at: 941217 15:47
Data File: >H0888::D2 Dilution Factor: 1.00000
Name: 15226N CLJ-DD-01 Instrument ID: H
Misc: JN6023H,N7H41879,L:G1,2,5:1,

ID File: IHHD09::D2
Title: Herbicides by Method 8150 DB-5 ECD IHHD07
Last Calibration: 941214 10:16 Last Qcal Time: <none>

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Dalapon	2.53	41	10199	.00855	ug/ml	100
2)	#2,4-Dichlorophenylacetic-acid	11.98	1175	197645	.281	ug/ml	100
3)	#Dicamba	12.14	1195	6852	.00272	ug/ml	100
4)	#Dichloroprop	13.29	1333	7942	.00959	ug/ml	100
5)	#2,4-D	13.35	1340	5766	.00580	ug/ml	100
6)	#2,4,5-TP (Silvex)	14.87	1522	5014	.00123	ug/ml	100
7)	#2,4,5-T	15.20	1562	1759	.000454	ug/ml	100
8)	#2,4-DB	15.95	1652	3079	.00967	ug/ml	100
9)	#Dinoseb	16.16	1677	3277	.000975	ug/ml	100

Compound uses ESTD

2L
LEACHATE HERBICIDE SURROGATE RECOVERY

0289

Lab Name: ANALYTICAL SERVICES CORP. Contract: NESA

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: CLJ-DD-01

GC Column(1): DB 5 ID: 0.53 (mm) GC Column(2): DB608 ID: 0.53 (mm)

	EPA SAMPLE NO.	DPA 1 %REC #	DPA 2 %REC #			OTHER (1)	OTHER (2)	TOT OUT
01	HBLK01	97						0
02	HSPK01	43						0
03	A01SS-101MS	88						0
04	A01SS-101MSD	35						0
05	A01SS-101	46						0
~~06~~	~~A01SS-104~~	~~82~~						~~0~~
~~07~~	~~A01SS-105~~	~~58~~						~~0~~
~~08~~	~~A01SS-106~~	~~56~~						~~0~~
09	CLJ-DD-01	74						0

DPA = 2,4-Dichlorophenylacetic-acid

ADVISORY QC LIMITS (10-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D System Monitoring compound diluted out

3L

LEACHATE HERBICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY 0290

Lab Name: ANALYTICAL SERVICES CORP. Contract: NESA

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: CWJ-DD-01

Matrix Spike - EPA Sample No.: A01SS-101

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
2,4-D	10000	0	3900	39	30-130
2,4,5-TP (Silvex)	2000	0	1200	61	30-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
2,4-D	10000	3400	34	13	20	30-130
2,4,5-TP (Silvex)	2000	1100	53	15	20	30-130

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

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

3L

LEACHATE HERBICIDE BLANK SPIKE RECOVERY

0291

Lab Name: ANALYTICAL SERVICES CORP. Contract: NESA

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: CLJ-SS-01

Matrix Spike - EPA Sample No.: HSPK01

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC LIMITS REC.
2,4-D	10000	0	5600	55	30-130
2,4,5-TP (Silvex)	2000	0	1700	85	30-130

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

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

4B (GC)
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

HBLK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NESA

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: CLJ-DD-01

Lab File ID: ^H0880 Lab Sample ID: N7H41859H

Instrument ID: H Date Extracted: ~~5/HER~~ 12/14/94

Matrix: (soil/water) WATER Date Analyzed: 12/17/94

Level: (low/med) _____ Time Analyzed: 11:15

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	HSPK01	N7H41859HS	^H0881	12/17/94
02	A01SS-101MS	JN5813HS	^H0882	12/17/94
03	A01SS-101MSD	JN5813HR	^H0883	12/17/94
04	A01SS-101	JN5813H	^H0884	12/17/94
~~05~~	~~A01SS-104~~	~~JN6035H~~	~~^H0885~~	~~12/17/94~~
~~06~~	~~A01SS-105~~	~~JN6036H~~	~~^H0886~~	~~12/17/94~~
~~07~~	~~A01SS-106~~	~~JN6037H~~	~~^H0887~~	~~12/17/94~~
08	CLJ-DD-01	JN6023H	^H0888	12/17/94

COMMENTS:

Calibration Report

Title: Herbicide Calib Curve Information, Method 8150 CHHD07
Calibrated: 941214 09:25

Compound	Files: >H0817 RF .100	>H0818 RF .200	>H0819 RF .500	>H0820 RF 1.00	>H0821 RF 2.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1
Dalapon	1548940	1368835	1149224	1064280	988594.	2.448	1223975	18.857	.999614
2,4-Dichlorophenylacetic-acid	855130.	750120.	628756.	583691.	-	11.973	704424.	17.406	.999788
Dicamba	3101590	2815660	2419642	2308734	1946858	12.202	2518497	17.855	.996304
Dichloroprop	1047160	945980.	797910.	740109.	611983.	13.308	828488.	20.668	.995248
2,4-D	1136480	1135120	923480.	780606.	-	13.538	993921.	17.497	.996082
2,4,5-TP (Silvex)	4905170	4555610	3953238	3807025	3203356	14.957	4084880	16.267	.996071
2,4,5-T	4909180	4461105	3616416	3491800	2913931	15.260	3878406	20.591	.996024
2,4-DB	304150.	316725.	298502.	366853.	305283.	16.012	318303.	8.776	.993659
Dinoseb	4123110	3868735	3289430	2988850	2573038	16.088	3368633	18.791	.997098

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

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

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

Calibration Check Report

Title: Herbicide Calib Curve Information, Method 8150 CHH007
Calibrated: 941214 09:25

Check Standard Data File: >HH879
Injection Time: 941217 09:45

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
Dalapon	1223975	1343861	9.79	Average	(Conc=.425)
2,4-Dichlorophenylacetic-acid	704424.	713033.	1.22	Average	(Conc=.419)
Dicamba	2518497	2922237	16.03	Average	(Conc=.422)
Dichlorprop	828488.	967888.	16.83	Average	(Conc=.383)
2,4-D	993921.	897399.	9.71	Average	(Conc=.493)
2,4,5-TP (Silvex)	4084980	4522039	10.70	Average	(Conc=.410)
2,4,5-T	3878406	4101590	5.75	Average	(Conc=.427)
2,4-DB	318303.	461460.	44.98	Average	(Conc=.400)
Dinoseb	3368633	3907799	15.86	Average	(Conc=.384)

RF - Response Factor from daily standard file at .400 ug/ml

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

%Diff - % Difference from original average or curve

Calibration Check Report

Title: Herbicide Calib Curve Information, Method 8150 CHH007
Calibrated: 941214 09:25

Check Standard Data File: >H0891
Injection Time: 941217 17:18

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
Dalapon	1223975	1329602	8.06	Average	(Conc=.425)
2,4-Dichlorophenylacetic-acid	704424.	729530.	3.56	Average	(Conc=.419)
Dicamba	2518497	2854825	13.35	Average	(Conc=.422)
Dichlorprop	828488.	934932.	12.85	Average	(Conc=.383)
2,4-D	993991.	926409.	6.79	Average	(Conc=.423)
2,4,5-TP (Silvex)	4084880	4627168	13.28	Average	(Conc=.410)
2,4,5-T	3878406	4148578	6.97	Average	(Conc=.427)
2,4-DB	318383.	319563.	.48	Average	(Conc=.400)
Dinoseb	3368633	3786082	12.39	Average	(Conc=.384)

RF - Response Factor from daily standard file at .400 ug/ml

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

%Diff - % Difference from original average or curve

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

0296 EPA SAMPLE NO.

HBLK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: N62749

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: CCJ-DD-01

Matrix: (soil/water) WATER Lab Sample ID: N7H41859H

Sample wt/vol: 2.00 (g/mL) ML Lab File ID: ^H0880

% Moisture: N/A decanted: (Y/N) N Date Received: 12/9/94

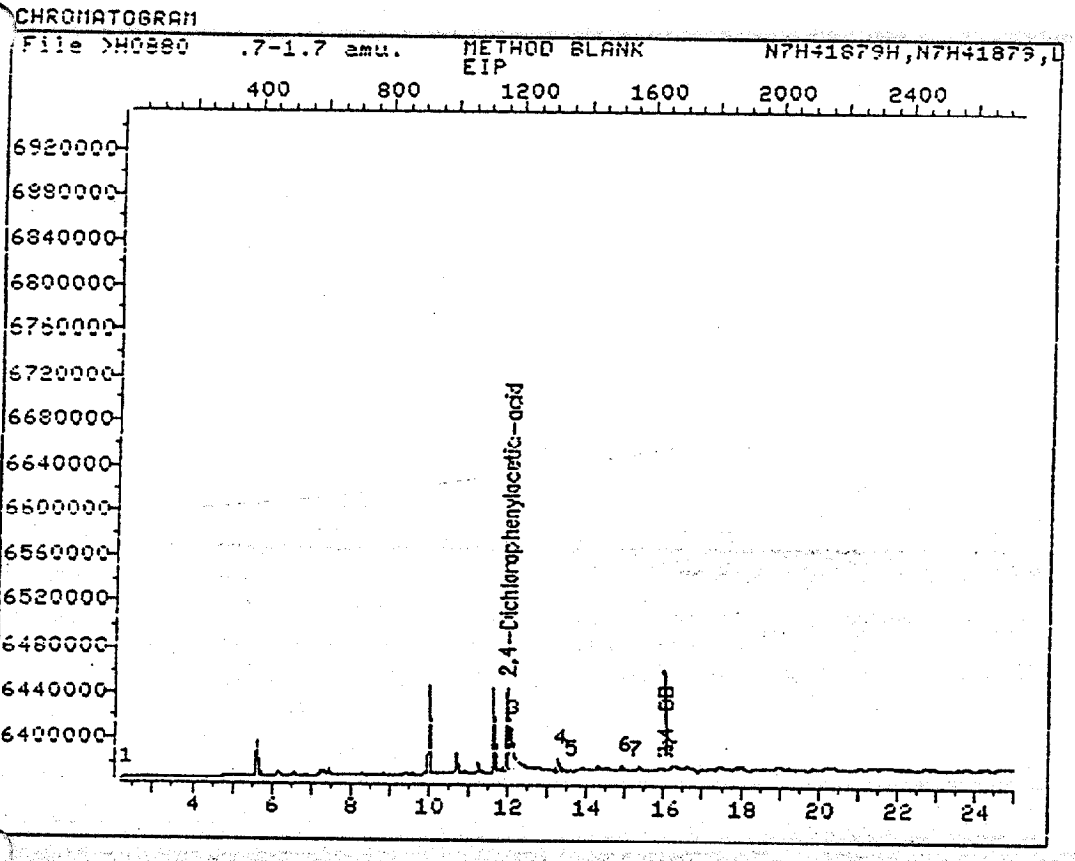
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 12/14/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/17/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
93-72-1	2,4,5-TP (Silvex)	250	U
94-75-7	2,4-D	250	U



Data File: >H0880::D2 Quant Output File: ^H0880::D2
Name: METHOD BLANK Instrument ID: H
Misc: N7H41879H,N7H41879,L:G2,2,5:1,

Id File: IHH009::D2
Title: Herbicides by Method 8150 DB-5 ECD IHH007
Last Calibration: 941214 10:16 Last Qcal Time: <none>

Operator ID: USER5
Quant Time : 941217 11:41
Injected at: 941217 11:15

QUANT REPORT

Operator ID: USER5
Output File: ^H0880::D2
Data File: >H0880::D2
Name: METHOD BLANK
Misc: N7H41879H,N7H41879,L:G1,2,5:1,

Quant Rev: 7
Quant Time: 941217 11:41
Injected at: 941217 11:15
Dilution Factor: 1.00000
Instrument ID: H

ID File: IHHD09::D2
Title: Herbicides by Method 8150 DB-5 ECD IHHD07
Last Calibration: 941214 10:16
Last Qcal Time: <none>

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Dalapon	2.26	9	1232	.0~~0181~~	~~ug/ml~~	100
2)	#2,4-Dichlorophenylacetic-acid	11.94	1171	258696	.367	ug/ml	100
3)	#Dicamba	12.03	1182	309795	.~~123~~	~~ug/ml~~	100
4)	#Dichloroprop	13.27	1330	38929	.~~0478~~	~~ug/ml~~	100
5)	#2,4-D	13.54	1363	1539	.~~00155~~	~~ug/ml~~	100
6)	#2,4,5-TP (Silvex)	14.88	1523	21262	.~~00521~~	~~ug/ml~~	100
7)	#2,4,5-T	15.17	1559	2448	.~~000631~~	~~ug/ml~~	100
8)	#2,4-DB	16.02	1660	2562	.~~00805~~	~~ug/ml~~	100
9)	#Dinoseb	16.02	1660	2562	.~~000761~~	~~ug/ml~~	100

Compound uses ESTD

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

0299 EPA SAMPLE NO.

A01SS-101

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: CLJ-DD-01

Matrix: (soil/water) WATER Lab Sample ID: JN5813H

Sample wt/vol: 2.00 (g/mL) ML Lab File ID: ^H0884

% Moisture: 26 decanted: (Y/N) N Date Received: 12/03/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 12/14/94

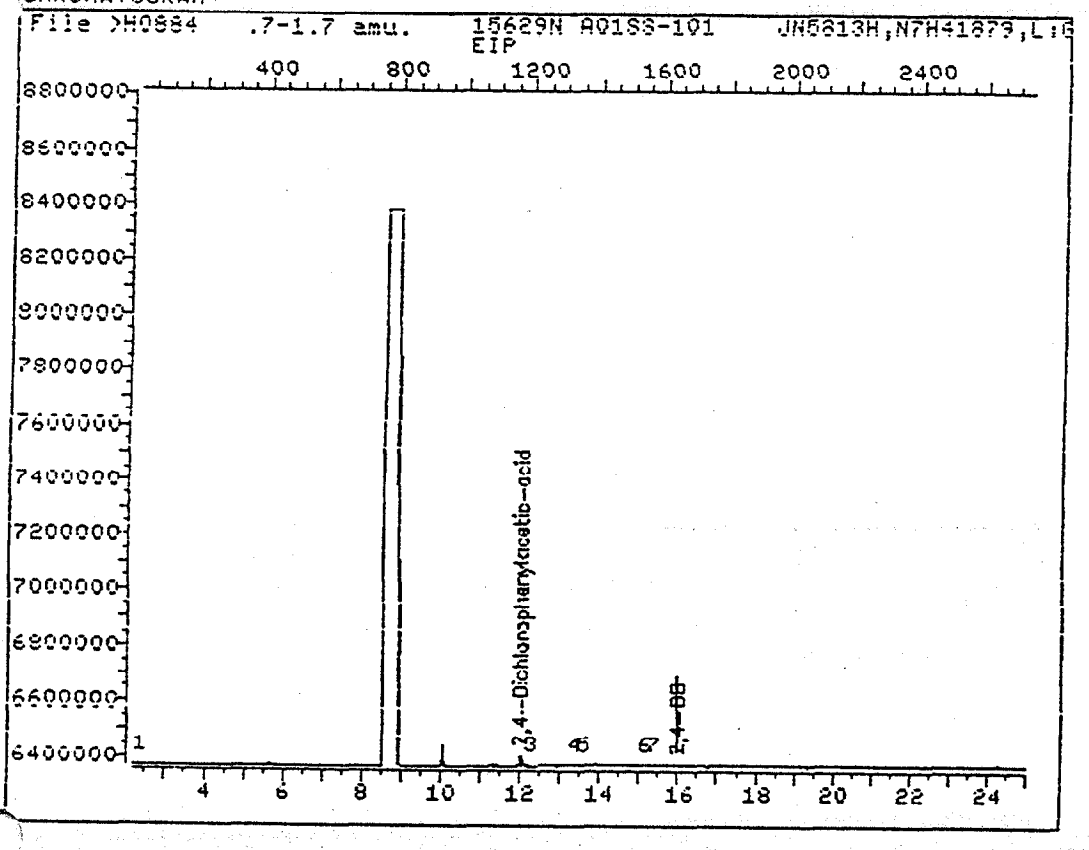
Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/17/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
93-72-1	2,4,5-TP (Silvex)	250	U
94-75-7	2,4-D	250	U

CHROMATOGRAM



Data File: >H0884::D2 Quant Output File: ^H0884::D2
Name: 15629N A01SS-101 Instrument ID: H
Misc: JN5813H,N7H41879,L:G1,2,5:1,

Id File: IHHD09::D2
Title: Herbicides by Method 8150 DB-5 ECD IHHD07
Last Calibration: 941214 10:16 Last Qcal Time: <none>

Operator ID: USER5
Quant Time : 941217 13:50
Injected at: 941217 13:24

QUANT REPORT

Operator ID: USER5
Output File: ^H0884::D2
Data File: >H0884::D2
Name: 15629N A01SS-101
Misc: JN5813H,N7H41879,L:G1,2,5:1,

Quant Rev: 7
Quant Time: 941217 13:50
Injected at: 941217 13:24
Dilution Factor: 1.00000
Instrument ID: H

ID File: IHH009::D2
Title: Herbicides by Method 8150 DB-5 ECD IHH007
Last Calibration: 941214 10:16
Last Qcal Time: <none>

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Dalapon	2.28	11	15688	.0128	ug/ml	100
2)	#2,4-Dichlorophenylacetic-acid	11.98	1176	123405	.175	ug/ml	100
3)	#Dicamba	12.17	1199	3053	.00121	ug/ml	100
4)	#Dichloroprop	13.30	1334	3579	.00432	ug/ml	100
5)	#2,4-D	13.54	1363	1035	.00104	ug/ml	100
6)	#2,4,5-TP (Silvex)	15.06	1545	8714	.00213	ug/ml	100
7)	#2,4,5-T	15.27	1571	1286	.000332	ug/ml	100
8)	#2,4-DB	15.97	1654	3209	.0101	ug/ml	100

Compound uses ESTD

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

0302 EPA SAMPLE NO.

A01SS-101MS

Lab Name: ANALYTICAL SERVICES CORP. Contract: NE25A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: CCJ-2020/

Matrix: (soil/water) WATER Lab Sample ID: JN5813HS

Sample wt/vol: 2.00 (g/mL) ML Lab File ID: ^H0882

% Moisture: 26 decanted: (Y/N) Date Received: 12/03/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 12/14/94

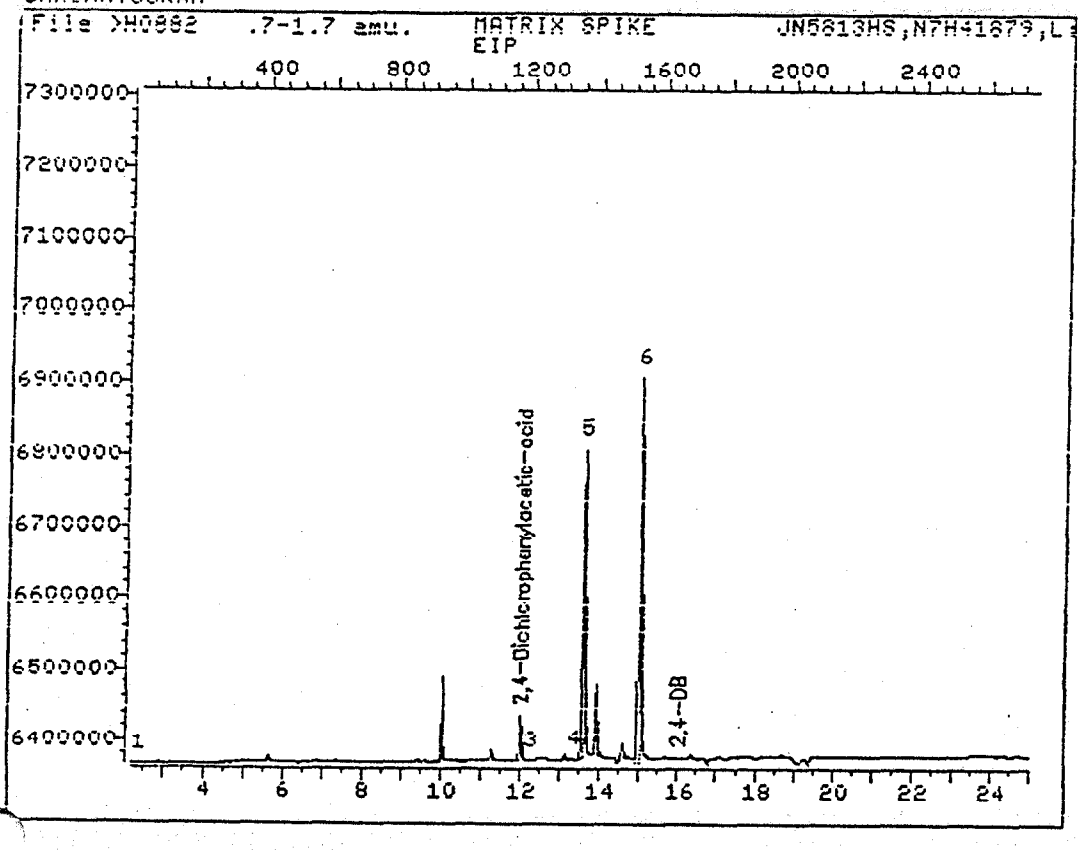
Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/17/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
93-72-1	2,4,5-TP (Silvex)	1200	
94-75-7	2,4-D	3900	

CHROMATOGRAM



Data File: >H0882::D2 Quant Output File: ^H0882::D2
Name: MATRIX SPIKE Instrument ID: H
Misc: JN5813HS,N7H41879,L:G1,2,5:1,

Id File: IHHD09::D2
Title: Herbicides by Method 8150 DB-5 ECD IHHD07
Last Calibration: 941214 10:16 Last Qcal Time: <none>

Operator ID: USER5
Quant Time : 941217 12:49
Injected at: 941217 12:23

QUANT REPORT

Operator ID: USER5
Output File: ^H0882::D2
Data File: >H0882::D2
Name: MATRIX SPIKE
Misc: JN5813HS,N7H41879,L:G1,2,5:1,

Quant Rev: 7
Quant Time: 941217 12:49
Injected at: 941217 12:23
Dilution Factor: 1.00000
Instrument ID: H

ID File: IHHD09::D2
Title: Herbicides by Method 8150 DB-5 ECD
Last Calibration: 941214 10:16

IHHD07
Last Qcal Time: <none>

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Dalapon	2.28	12	14965	~~.0122~~	~~ug/ml~~	100
2)	#2,4-Dichlorophenylacetic-acid	11.98	1175	233741	.332	ug/ml	100
3)	#Dicamba	12.19	1201	6918	~~.00225~~	~~ug/~~ml	100
4)	#Dichloroprop	13.30	1334	13067	~~.0158~~	~~ug/~~ml	100
5)	#2,4-D	13.54	1363	1536382M	1.55	ug/ml	100
6)	#2,4,5-TP (Silvex)	14.98	1535	2007585M	.491	ug/ml	100
8)	#2,4-DB	16.01	1659	2184	~~.00686~~	~~ug/ml~~	100

Compound uses ESTD

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

0305 EPA SAMPLE NO.

A01SS-101MSD

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: CLJ-DD-01

Matrix: (soil/water) WATER Lab Sample ID: JN5813HR

Sample wt/vol: 2.00 (g/mL) ML Lab File ID: ^H0883

% Moisture: 26 decanted: (Y/N) Date Received: 12/03/94

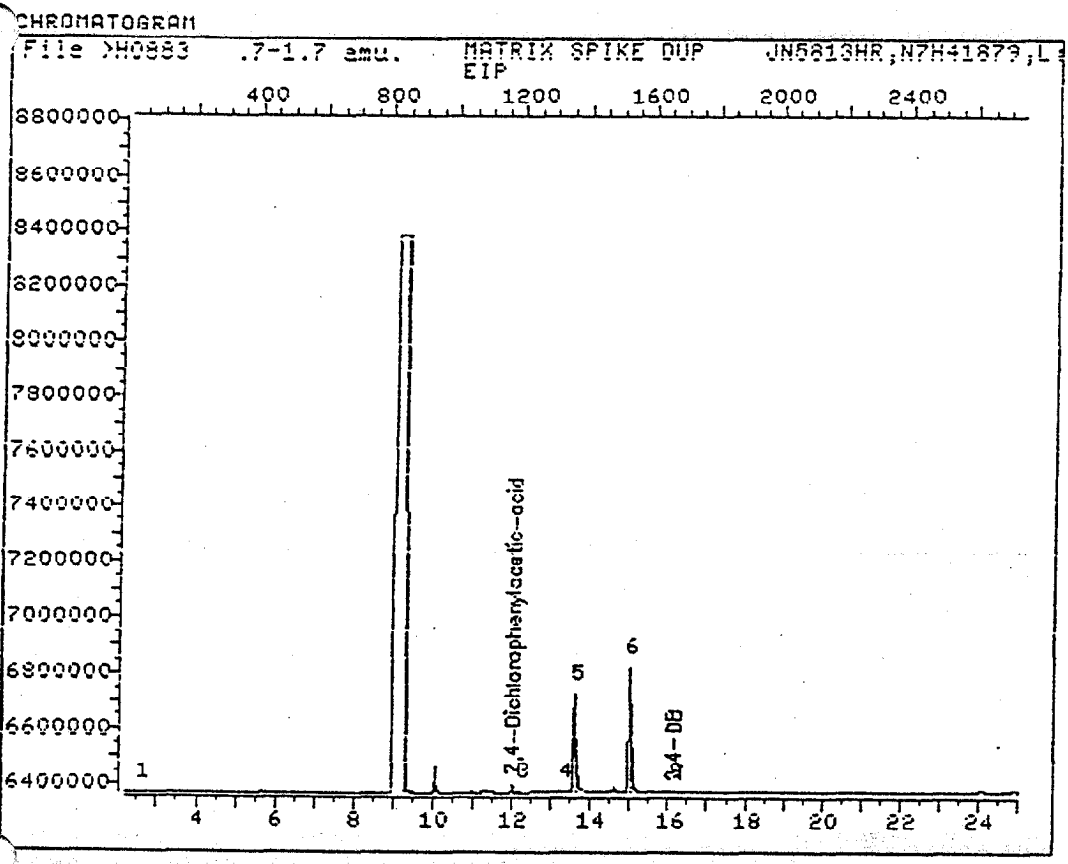
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 12/14/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/17/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
93-72-1	2,4,5-TP (Silvex)	1100	
94-75-7	2,4-D	3400	



Data File: >H0883::D2 Quant Output File: ^H0883::D2
Name: MATRIX SPIKE DUP Instrument ID: H
Misc: JN5813HR,N7H41879,L:G1,2,5:1,

Id File: IHHD09::D2
Title: Herbicides by Method 8150 DB-5 ECD IHHD07
Last Calibration: 941214 10:16 Last Qcal Time: <none>

Operator ID: USER5
Quant Time : 941217 13:20
Injected at: 941217 12:54

QUANT REPORT Page 1

Operator ID: USER5 Quant Rev: 7 Quant Time: 941217 13:20
Output File: ^H0883::D2 Injected at: 941217 12:54
Data File: >H0883::D2 Dilution Factor: 1.00000
Name: MATRIX SPIKE DUP Instrument ID: H
Misc: JN5813HR,N7H41879,L:G1,2,5:1,

ID File: IHHD09::D2
Title: Herbicides by Method 8150 DB-5 ECD IHHD07
Last Calibration: 941214 10:16 Last Qcal Time: <none>

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Dalapon	2.55	44	7814	.00638	ug/ml	100
2)	#2,4-Dichlorophenylacetic-acid	11.98	1176	94733	.134	ug/ml	100
3)	#Dicamba	12.17	1199	2564	.00102	ug/ml	100
4)	#Dichloroprop	13.30	1334	6408	.00773	ug/ml	100
5)	#2,4-D	13.55	1364	1355005M	1.36	ug/ml	100
6)	#2,4,5-TP (Silvex)	14.97	1534	1722419M	.422	ug/ml	100
8)	#2,4-DB	16.11	1671	1411	.00443	ug/ml	100
9)	#Dinoseb	16.11	1671	1411	.000419	ug/ml	100

Compound uses ESTD

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

0308 EPA SAMPLE NO.

HSPK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NESA

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: CLJ-8001

Matrix: (soil/water) WATER Lab Sample ID: N7H41859HS

Sample wt/vol: 2.00 (g/mL) ML Lab File ID: ^H0881

% Moisture: N/A decanted: (Y/N) N Date Received: 12/9/94

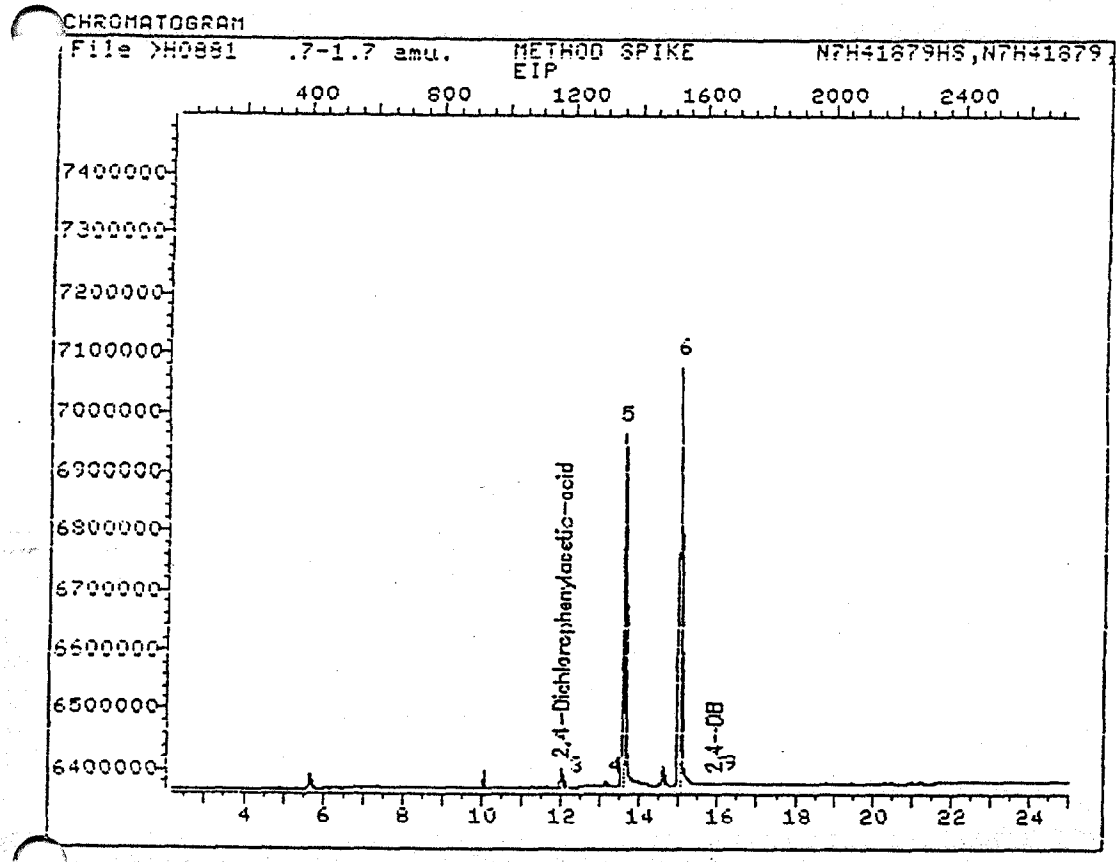
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 12/14/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/17/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
93-72-1	2,4,5-TP (Silvex)	1700	
94-75-7	2,4-D	5600	



Data File: >H0881::D2 Quant Output File: ^H0881::D2
Name: METHOD SPIKE Instrument ID: H
Misc: N7H41879HS,N7H41879,L:G1,2,5:1,

Id File: IHH009::D2
Title: Herbicides by Method 8150 DB-5 ECD IHH007
Last Calibration: 941214 10:16 Last Qcal Time: <none>

Operator ID: USER5
Quant Time : 941217 12:18
Injected at: 941217 11:53

QUANT REPORT Page 1

Operator ID: USER5 Quant Rev: 7 Quant Time: 941217 12:18
Output File: ^H0881::D2 Injected at: 941217 11:53
Data File: >H0881::D2 Dilution Factor: 1.00000
Name: METHOD SPIKE Instrument ID: H
Misc: N7H41879HS,N7H41879,L:G1,2,5:1,

ID File: IHH009::D2
Title: Herbicides by Method 8150 DB-5 ECD IHH007
Last Calibration: 941214 10:16 Last Qcal Time: <none>

	Compound	R.T.	Scan#	Area	Conc	Units	q
2)	#2,4-Dichlorophenylacetic-acid	11.97	1174	114203	.162	ug/ml	100
3)	#Dicamba	12.27	1211	1289	.00512	ug/ml	100
4)	#Dichloroprop	13.28	1332	5382	.00650	ug/ml	100
5)	#2,4-D	13.53	1362	2208498M	2.22	ug/ml	100
6)	#2,4,5-TP (Silvex)	14.97	1534	2779759M	.680	ug/ml	100
8)	#2,4-DB	15.88	1643	4370	.0137	ug/ml	100
9)	#Dinoseb	16.22	1684	8466	.00251	ug/ml	100

Compound uses ESTD

1B (GC)
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

- 0311 EPA SAMPLE NO.

CLJ-DD-01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DD-01

Matrix: (soil/water) SOIL Lab Sample ID: JN6023F

Sample wt/vol: 10.3 (g/mL) G Lab File ID: C3F038

Level: (low/med) _____ Date Received: 12/09/94

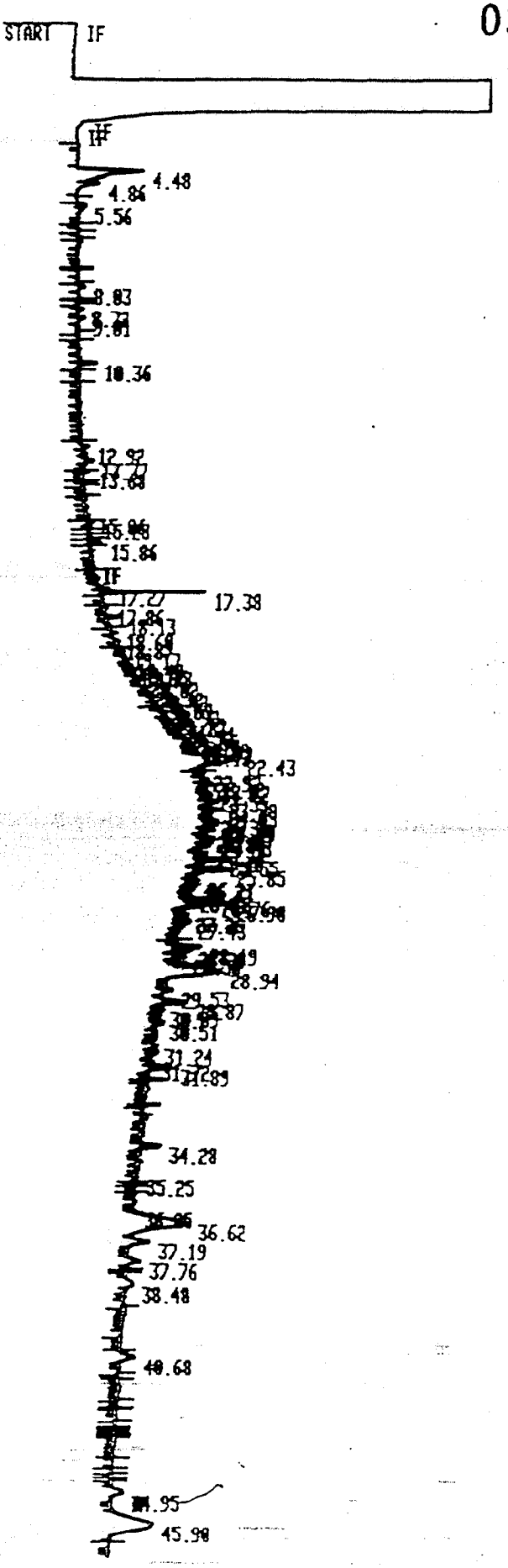
% Moisture: 4 decanted: (Y/N) N Date Extracted: 12/18/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/21/94

Injection Volume: _____ (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
	Medium hydrocarbons (C10 - C21)	3300	J
	Heavy hydrocarbons (C21 - C40)	110000	



CLJ-DD-01

RUN # 38 JN6023F
WORKFILE ID: C
WORKFILE NAME: N2F4184
SAMPLE # 10

AREA%

RT	AREA	TYPE	AR/HT	AREA%
10.17	511420	++	0.127	3.024
31.11	1.6075E+07	D ++	0.136	95.056
45.90	324750	VP	0.433	1.920

TOTAL AREA= 1.6911E+07
MUL FACTOR= 1.0000E+00

RUN # 38 JN6023F
WORKFILE ID: C
WORKFILE NAME: N2F4184

3C (GC)
SOIL SEMIVOLATILE BLANK SPIKE RECOVERY

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DD-01

Matrix Spike - EPA Sample No.: FSPK01

COMPOUND	SPIKE ADDED (ug/Kg)	BLANK CONCENTRATION (ug/Kg)	BS CONCENTRATION (ug/Kg)	BS % REC #	QC LIMITS REC.
Medium hydrocarbons(C10_	34000	0	4800	14 *	30-130

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

* Values outside of QC limits

Spike Recovery: 1 out of 1 outside limits

COMMENTS: _____

4B (GC)
SEMIVOLATILE METHOD BLANK SUMMARY

0314 EPA SAMPLE NO.

FBLK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DD-01

Lab File ID: C3F035 Lab Sample ID: N2F41846F

Instrument ID: PK Date Extracted: _____

Matrix: (soil/water) SOIL Date Analyzed: _____

Level: (low/med) _____ Time Analyzed: _____

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	FSPK01	N2F41846FS	C3F036	
02	CLJ-DD-01	JN6023F	C3F038	
03	TAR	JN6338F	C3F037	

COMMENTS:

TEH INITIAL CALIBRATION DATA

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: ~~NA~~ 15226N SAS No.: NA SDG No.: ~~NA~~ CLJ-DD-01

Instrument ID: ~~B1F~~ C3F Calibration Date (s): 12/21/94

Calibration Time (s):

LAB FILE ID: CLOW = 29 CMEDL = 30
CMED = 31 CMEDH= 32 CHIGH = 33

COMPOUND	CLOW	CMEDL	CMED	CMEDH	CHIGH	$\overline{CF}$	%RSD
Medium hydrocarbons(C10-21)	10700	14900	17400	17700	18700	15900	20.5
Heavy hydrocarbons(C21-C40)	12900	13400	15100	16600	18100	15200	14.1

TEH CONTINUING CALIBRATION CHECK

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: N/A **Case #:** 15226N **SAS #:** N/A **SDG #:** CLJ-DD

Instrument ID: C3F **Calibration Date:** 12/21/94 **Time:** _____

Lab File ID: _____ **Initial Calib Date(s):** 12/21/94 _____

Initial Calib Times: _____ _____

COMPOUND	$\overline{CF}$	CMED	MIN CF	% D	MAX % D
Medium Hydrocarbons (C10-C21)	15900	15200	N/A	4.20	15
Heavy Hydrocarbons (C21-C40)	15200	15800	N/A	3.79	15

1B (GC) - 0317 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FBLK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DD-01

Matrix: (soil/water) SOIL Lab Sample ID: N2F41846F

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C3F035

Level: (low/med) _____ Date Received: N/A

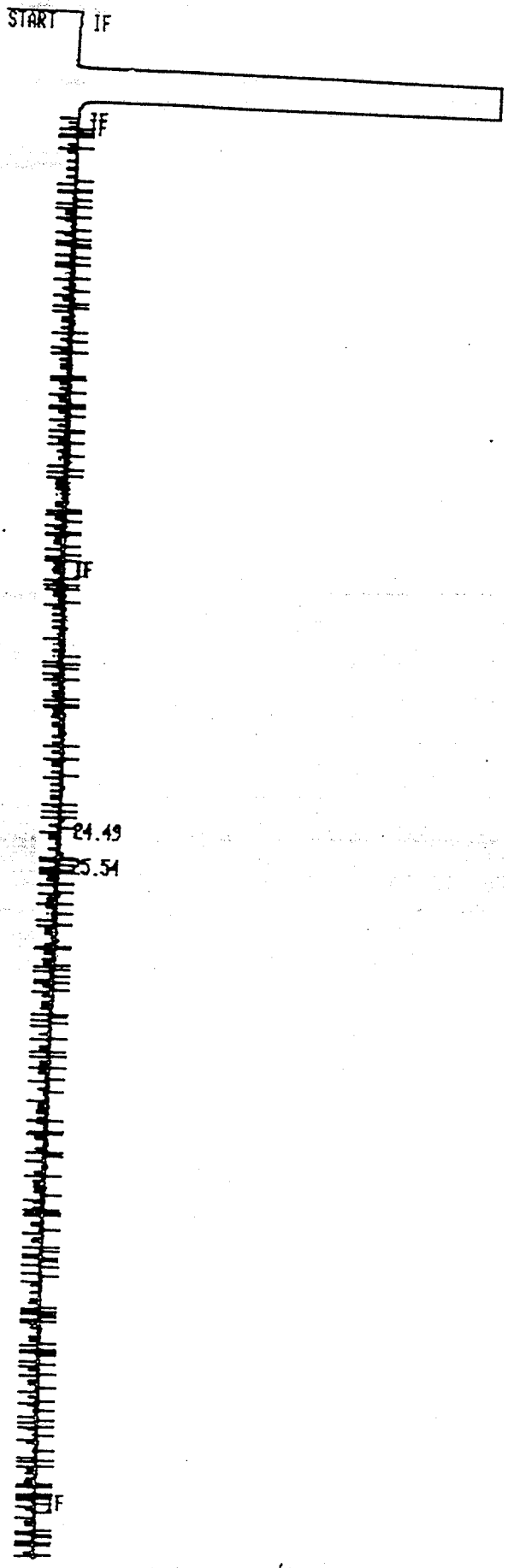
% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/18/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/21/94

Injection Volume: _____ (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
	Medium hydrocarbons (C10 - C21)	3300	U
	Heavy hydrocarbons (C21 - C40)	17000	U



Method Blank
N2F 41846
N2F 41846F

RUN # 35 Meth Blk
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 7

AREA% RT	AREA	TYPE	AR/HT	AREA%
25.01	49362	++	0.161	100.000

TOTAL AREA= 49362
MUL FACTOR= 1.0000E+00

N2F 41846
N2F 41846F

RUN # 35 Meth Blk
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 7

1B (GC)
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FSPK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DD-01

Matrix: (soil/water) SOIL Lab Sample ID: N2F41846FS

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C3F036

Level: (low/med) _____ Date Received: N/A

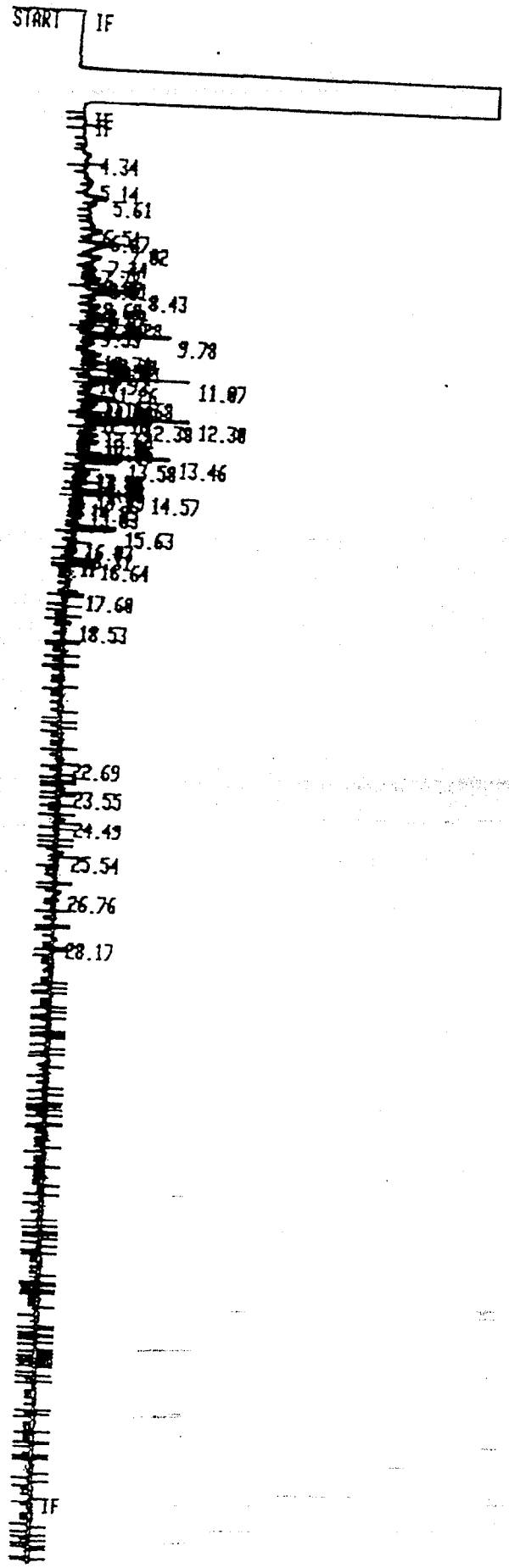
% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/18/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/21/94

Injection Volume: _____ (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
	Medium hydrocarbons (C10 - C21)	4800	
	Heavy hydrocarbons (C21 - C40)	430	J



Method Spike

N2F 41846
N2F 41846FS

RUN # 36
WORKFILE ID: C Mat Spk
WORKFILE NAME:
SAMPLE # 8

AREA%

RT	AREA	TYPE	AR/HT	AREA%
10.32	2294400	D ++	0.885	92.034
22.40	198598	++	0.111	7.966

TOTAL AREA= 2493000
MUL FACTOR= 1.0000E+00

N2F 41846
N2F 41846FS

RUN # 36

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: ANALYTICAL SERVICES CORPORATION Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJDD01

SOW No.:

EPA Sample No.	Lab Sample ID.
CLJ-DD-01	JN6023

Were ICP interelement corrections applied? Yes/No YES

Were ICP backgrounds corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

See SDG Narrative for Total Metals

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: [signature] Name: William A. Fithian

Date: 5/15/95 Title: Technical Project Manager

Narrative for SDG # CLJ-DD-01

Total Metals

All of the initial calibration criteria were within QC limits.

Potassium did not pass all continuing calibration criteria but should not negatively impact the data validity.

The CRDL standard met all QC criteria.

Low levels of Barium, Calcium, Copper, Iron, Selenium, Sodium, Vanadium and Zinc were detected in the initial and continuing calibration blanks. This anomaly should not impact the validity of the data generated.

Low levels of Aluminum, Barium, Calcium, Copper, Iron, Magnesium, Manganese and Zinc were detected in the method blank.

Low spike recoveries were noted for Antimony, Beryllium, Nickel and Selenium.

Matrix spike recoveries for Aluminum, Barium, Calcium, Copper, Chromium, Iron, Lead, Magnesium, Manganese, Silver and Zinc were outside QC limits due to the high levels of these elements present in the unspiked sample.

Duplicate results were >20% for Antimony, Calcium, Copper, Iron, Lead and Silver. This will have minimal impact on the validity of the data submitted.

All Laboratory Control Samples (LCS) were within acceptable QC limits.

All holding times were met for this SDG.

No Quarterly Linearity Checks are available for this SDG.

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

CLJ-DD-01

Lab Name: ANALYTICAL SERVICES CORPORATION Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJDD01

Matrix (soil/water): SOIL Lab Sample ID: JN6023

Level (low/med): MED Date Received: 12/09/94

% Solids:

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	92.9			P
7440-36-0	Antimony	0.71	U	N,*	P
7440-38-2	Arsenic	12.3		W	F
7440-39-3	Barium	2.03			P
7440-41-7	Beryllium	0.012	U	N	P
7440-43-9	Cadmium	2.43			P
7440-70-2	Calcium	7810		*	P
7440-47-3	Chromium	23.5			P
7440-48-4	Cobalt	3.07			P
7440-50-8	Copper	53500		*	P
7439-89-6	Iron	57600		*	P
7439-92-1	Lead	271		*	P
7439-95-4	Magnesium	147			P
7439-96-5	Manganese	383			P
7439-97-6	Mercury	0.02			CV
7440-02-0	Nickel	30.5		N	P
7440-09-7	Potassium	35.5	U		P
7782-49-2	Selenium	0.12	U	N,E	F
7440-22-4	Silver	0.755		*	P
7440-23-5	Sodium	24.8	B		P
7440-28-0	Thallium	0.185	U		F
7440-62-2	Vanadium	1.02		N	P
7440-66-6	Zinc	4190			P
	Cyanide				

Color Before: BROWN Clarity Before: Texture: MED

Color After: YELLOW Clarity After: Artifacts:

Comments:

U.S. EPA - CLP
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL SERVICES CORPORATION Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJDD01

Initial Calibration Source: NIST

Continuing Calibration Source: NIST

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum	9852.0	10140.00	102.9	5060.0	5086.00	100.5	5037.00	99.5	P
Antimony	5056.0	5253.00	103.9	2610.0	2614.00	100.2	2608.00	99.9	P
Arsenic	32.8	30.74	93.7	20.5	20.62	100.6	20.95	102.2	F
Barium	9555.0	9901.00	103.6	4890.0	4973.00	101.7	4932.00	100.9	P
Beryllium	285.8	290.10	101.5	127.0	127.70	100.6	126.80	99.8	P
Cadmium	2512.0	2608.00	103.8	1370.0	1349.00	98.5	1341.00	97.9	P
Calcium	24850.0	25330.00	101.9	12700.0	12670.00	99.8	12410.00	97.7	P
Chromium	999.4	1038.00	103.9	494.0	498.40	100.9	496.70	100.5	P
Cobalt	2278.0	2375.00	104.3	1310.0	1327.00	101.3	1319.00	100.7	P
Copper	1250.0	1277.00	102.2	672.0	662.90	98.6	664.60	98.9	P
Iron	4869.0	5053.00	103.8	2530.0	2577.00	101.9	2576.00	101.8	P
Lead	5024.0	5269.00	104.9	2700.0	2686.00	99.5	2679.00	99.2	P
Magnesium	24930.0	25910.00	103.9	12900.0	12940.00	100.3	12890.00	99.9	P
Manganese	2455.0	2534.00	103.2	1360.0	1294.00	95.1	1284.00	94.4	P
Mercury	5.0	4.74	94.8	5.0	4.60	92.0	4.59	91.8	CV
Nickel	2452.0	2540.00	103.6	1320.0	1319.00	99.9	1312.00	99.4	P
Potassium	24920.0	26030.00	104.5	12300.0	12920.00	105.0	12640.00	102.8	P
Selenium									F
Silver	1015.0	1035.00	102.0	471.0	463.40	98.4	466.10	99.0	P
Sodium	22830.0	23490.00	102.9	12000.0	11870.00	98.9	11930.00	99.4	P
Thallium									F
Vanadium	4921.0	5075.00	103.1	2540.0	2551.00	100.4	2542.00	100.1	P
Zinc	2475.0	2527.00	102.1	1340.0	1312.00	97.9	1307.00	97.5	P
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL SERVICES CORPORATION Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJDD01

Initial Calibration Source: NIST

Continuing Calibration Source: NIST

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum				5060.0	5425.00	107.2			P
Antimony				2610.0	2784.00	106.7			P
Arsenic									F
Barium				4890.0	5289.00	108.2			P
Beryllium				127.0	135.70	106.9			P
Cadmium				1370.0	1464.00	106.9			P
Calcium				12700.0	13410.00	105.6			P
Chromium				494.0	533.30	108.0			P
Cobalt				1310.0	1420.00	108.4			P
Copper				672.0	721.10	107.3			P
Iron				2530.0	2734.00	108.1			P
Lead				2700.0	2915.00	108.0			P
Magnesium				12900.0	13990.00	108.4			P
Manganese				1360.0	1393.00	102.4			P
Mercury									CV
Nickel				1320.0	1420.00	107.6			P
Potassium				12300.0	13810.00	112.3			P
Selenium									F
Silver				471.0	500.50	106.3			P
Sodium				12000.0	12770.00	106.4			P
Thallium									F
Vanadium				2540.0	2734.00	107.6			P
Zinc				1340.0	1320.00	98.5			P
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL SERVICES CORPORATION Contract: NESSA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJDD01

Initial Calibration Source: APG

Continuing Calibration Source: PERKIN-ELMER

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium	39.2	41.26	105.3	20.0	21.18	105.9	20.80	104.0	F
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL SERVICES CORPORATION Contract: NESSA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJDD01

Initial Calibration Source: VENTURES

Continuing Calibration Source: VENTURES

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium	35.0	33.70	96.3	20.0	21.00	105.0	19.90	99.5	F
Vanadium									
Zinc									
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL SERVICES CORPORATION Contract: NESSA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJDD01

Initial Calibration Source: VENTURES

Continuing Calibration Source: VENTURES

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium				20.0	17.40	87.0	18.50	92.5	F
Vanadium									
Zinc									
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP
3
BLANKS

Lab Name: ANALYTICAL SERVICES CORPORATION Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJDD01

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	59.9	U	59.9	U	59.9	U	59.9	U	144.000	B	P
Antimony	29.8	U	29.8	U	29.8	U	29.8	U	29.800	U	P
Arsenic	2.0	U	2.0	U	2.0	U			2.000	U	F
Barium	5.0	B	1.8	B	1.3	U	1.3	U	1.900	B	P
Beryllium	0.5	U	0.5	U	0.5	U	0.5	U	0.500	U	P
Cadmium	1.1	U	1.1	U	1.1	U	1.1	U	1.100	U	P
Calcium	16.2	B	10.6	B	6.3	U	6.3	U	118.700	B	P
Chromium	5.9	U	5.9	U	5.9	U	5.9	U	5.900	U	P
Cobalt	3.7	U	3.7	U	3.7	U	3.7	U	3.700	U	P
Copper	5.5	U	5.5	U	5.5	U	8.9	B	9.600	B	P
Iron	18.2	B	28.9	B	49.9	B	23.4	B	149.300	B	P
Lead	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	F
Magnesium	33.5	U	33.5	U	33.5	U	33.5	U	52.600	B	P
Manganese	1.2	U	1.2	U	1.2	U	1.2	U	1.300	B	P
Mercury	0.2	U	0.2	U	0.2	U			0.140	U	CV
Nickel	9.5	U	9.5	U	9.5	U	9.5	U	9.500	U	P
Potassium	1490.0	U	1490.0	U	1490.0	U	1490.0	U	1490	U	P
Selenium	1.7	B	1.3	U	1.3	U			1.300	U	F
Silver	5.8	U	5.8	U	5.8	U	5.8	U	5.800	U	P
Sodium	53.6	U	102.9	B	78.3	B	128.2	B	53.600	U	P
Thallium	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	F
Vanadium	4.3	B	4.2	U	4.2	U	4.2	U	4.200	U	P
Zinc	5.1	B	4.3	B	9.8	B	4.5	B	10.400	B	P
Cyanide											

U.S. EPA - CLP
3
BLANKS

Lab Name: ANALYTICAL SERVICES CORPORATION Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJDD01

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic											
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead											
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium											
Silver											
Sodium											
Thallium			2.0	U							
Vanadium											
Zinc											
Cyanide											

U.S. EPA - CLP
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: ANALYTICAL SERVICES CORPORATION Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJDD01

ICP ID Number: 61 ICS Source: VENTURES

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	501000	553700	486200	495400.0	89.5	491000	504000.0	91.0
Antimony	0	1018	-11	968.6	95.1	17	954.1	93.7
Arsenic								
Barium	0	507	5	478.6	94.4	2	486.6	96.0
Beryllium	0	536	0	503.2	93.9	0	512.8	95.7
Cadmium	0	1021	10	996.6	97.6	10	1025.0	100.4
Calcium	191000	255400	188500	239000.0	93.6	187100	239100.0	93.6
Chromium	0	497	-5	478.9	96.4	-7	486.9	98.0
Cobalt	0	498	-2	479.6	96.3	-6	484.0	97.2
Copper	0	519	7	472.9	91.1	11	486.0	93.6
Iron	182000	190500	185200	187300.0	98.3	186000	189700.0	99.6
Lead	0	1038	48	1049.0	101.1	39	1083.0	104
Magnesium	253000	279900	259000	261600.0	93.5	263900	268.6	0.1
Manganese	0	509	-5	480.6	94.4	-4	484.4	95.2
Mercury								
Nickel	0	1019	-2	942.3	92.5	-7	961.8	94.4
Potassium								
Selenium								
Silver	0	1100	0	992.6	90.2	-6	1012.0	92.0
Sodium								
Thallium								
Vanadium	0	492	2	496.1	100.8	2	508.4	103.3
Zinc	0	1052	35	1065.0	101.2	25	1074.0	102.1

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

A01SS-106

Lab Name: ANALYTICAL SERVICES CORPORATION Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-DD-01

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample:

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum		5770.0000		6120.0000		304.00	-115.1		P
Antimony	75-125	-1.2100		0.0000		14.00	-8.6	N	P
Arsenic									F
Barium		1650.0000		1710.0000		57.10	-105.1		P
Beryllium	75-125	1.6800		0.7730		1.48	61.3	N	P
Cadmium		8.5700		7.1100		1.61	90.7		P
Calcium		31000.0000		33900.0000		304.00	-953.9		P
Chromium		37.8000		28.2000		6.34	151.4		P
Cobalt	75-125	17.2000		5.4300		15.20	77.4		P
Copper		940.0000		658.0000		8.27	3409.9		P
Iron		35400.0000		29300.0000		301.00	2026.6		P
Lead		1300.0000		1960.0000		15.70	-4203.8		F
Magnesium		3360.0000		3360.0000		310.00	0.0		P
Manganese		637.0000		638.0000		16.10	-6.2		P
Mercury									CV
Nickel	75-125	31.8000		19.9000		33.00	36.1	N	P
Potassium	75-125	1170.0000		895.0000		304.00	90.5		P
Selenium									F
Silver	75-125	1.6400		0.1840		1.55	93.9		P
Sodium	75-125	512.0000		201.0000		360.00	86.4		P
Thallium									F
Vanadium	75-125	35.1000		25.5000		14.90	64.4	N	P
Zinc		2750.0000		2730.0000		15.20	131.6		P
Cyanide									

Comments:

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

A01SS-101

Lab Name: ANALYTICAL SERVICES CORPORATION Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-DD-01

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample:

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									P
Antimony									P
Arsenic		17.8000		22.4000		2.78	-165.5		F
Barium									P
Beryllium									P
Cadmium									P
Calcium									P
Chromium									P
Cobalt									P
Copper									P
Iron									P
Lead									F
Magnesium									P
Manganese									P
Mercury									CV
Nickel									P
Potassium									P
Selenium	75-125	1.4300		0.0000		2.78	51.4	N	F
Silver									P
Sodium									P
Thallium	75-125	2.8200		0.0000		2.78	101.4		F
Vanadium									P
Zinc									P
Cyanide									

Comments:

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

A01SS-100

Lab Name: ANALYTICAL SERVICES CORPORATION Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-DD-01

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample:

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									P
Antimony									P
Arsenic									F
Barium									P
Beryllium									P
Cadmium									P
Calcium									P
Chromium									P
Cobalt									P
Copper									P
Iron									P
Lead									F
Magnesium									P
Manganese									P
Mercury	75-125	0.2530		0.0345		0.25	87.4		CV
Nickel									P
Potassium									P
Selenium									F
Silver									P
Sodium									P
Thallium									F
Vanadium									P
Zinc									P
Cyanide									

Comments:

U.S. EPA - CLP

6

DUPLICATES

0335

EPA SAMPLE NO.

A01SS-106

Lab Name: ANALYTICAL SERVICES CORPORATION Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-DD-01

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: % Solids for Duplicate:

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		5770.0000		5590.0000		3.2		P
Antimony		-1.2100		1.81		510	*	P
Arsenic								F
Barium		1650.0000		1690.0000		2.4		P
Beryllium		1.6800		1.6700		0.6		P
Cadmium		8.5700		8.8200		2.9		P
Calcium		31000.0000		25000.0000		21.4	*	P
Chromium		37.8000		36.3000		4.0		P
Cobalt		17.2000		17.9000		4.0		P
Copper		940.0000		634.0000		38.9	*	P
Iron		35400.0000		45300.0000		24.5	*	P
Lead		1300.0000		975.0000		28.6	*	F
Magnesium		3360.0000		3170.0000		5.8		P
Manganese		637.0000		705.0000		10.1		P
Mercury								CV
Nickel		31.8000		33.2000		4.3		P
Potassium		1170.0000		1090.0000		7.1		P
Selenium								F
Silver		1.6400		1.2500		27.0	*	P
Sodium		512.0000		472.0000		8.1		P
Thallium								F
Vanadium		35.1000		40.7000		14.8		P
Zinc		2750.0000		2260.0000		19.6		P
Cyanide								

U.S. EPA - CLP

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DUPLICATES

EPA SAMPLE NO.

A01SS-101

Lab Name: ANALYTICAL SERVICES CORPORATION Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-DD-01

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: % Solids for Duplicate:

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								P
Antimony								P
Arsenic		17.8000		16.0000		10.7		F
Barium								P
Beryllium								P
Cadmium								P
Calcium								P
Chromium								P
Cobalt								P
Copper								P
Iron								P
Lead								F
Magnesium								P
Manganese								P
Mercury								CV
Nickel								P
Potassium								P
Selenium		1.4300		1.1000		26.1		F
Silver								P
Sodium								P
Thallium		2.8200		2.9900		5.9		F
Vanadium								P
Zinc								P
Cyanide								

U.S. EPA - CLP

6

DUPLICATES

EPA SAMPLE NO.

A01SS-100

Lab Name: ANALYTICAL SERVICES CORPORATION Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-DD-01

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: % Solids for Duplicate:

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								P
Antimony								P
Arsenic								F
Barium								P
Beryllium								P
Cadmium								P
Calcium								P
Chromium								P
Cobalt								P
Copper								P
Iron								P
Lead								F
Magnesium								P
Manganese								P
Mercury		0.2530		0.2260		11.3		CV
Nickel								P
Potassium								P
Selenium								F
Silver								P
Sodium								P
Thallium								F
Vanadium								P
Zinc								P
Cyanide								

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: ANALYTICAL SERVICES CORPORATION Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJDD01

SOW No.:

EPA Sample No.	Lab Sample ID.
CLJ-DD-01	JN6023

Were ICP interelement corrections applied? Yes/No YES

Were ICP backgrounds corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

See SDG Narrative for TCLP Metals

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: [signature]

Date: 5/15/95

Name: William A. Fathian

Title: Technical Project Manager

Narrative for SDG # CLJ-DD-01

TCLP Metals

CLP Forms and/or analytical requirements do not apply to all TCLP Level C type deliverable requirements. Every effort was made to conform to the CLP format and all applicable CLP/Level C forms have been included.

All of the initial calibration criteria were within QC limits.

Silver did not pass all continuing calibration criteria but should not negatively impact the data validity.

The CRDL standard met all QC criteria.

Low levels of Barium, Lead and Silver were detected in the various blanks analyzed in this SDG. This anomaly should not impact the validity of the data generated.

Low spike recoveries were noted for Selenium.

A sample from another SDG was utilized for the sample duplicate for the mercury analysis for this analytical batch.

Duplicate results were within QC limits.

All Laboratory Control Samples (LCS) were within acceptable QC limits.

All holding times were met for this SDG.

No Quarterly Linearity Checks are available for this SDG.

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

CLJ-DD-01

Lab Name: ANALYTICAL SERVICES CORPORATION Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJDD01

Matrix (soil/water): LEACHATE Lab Sample ID: JN6023

Level (low/med): LOW Date Received: 12/09/94

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	2	U		F
7440-39-3	Barium	356			P
7440-41-7	Beryllium				
7440-43-9	Cadmium	9.16			P
7440-70-2	Calcium				
7440-47-3	Chromium	12.8			P
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	447			P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.159	B		CV
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium	1.3	U	N,W	F
7440-22-4	Silver	5.8	U		P
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL SERVICES CORPORATION Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJDD01

Initial Calibration Source: NIST

Continuing Calibration Source: NIST

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									
Antimony									
Arsenic	32.8	33.38	101.8	20.5	20.85	101.7			F
Barium	9555.0	9889.00	103.5	4890.0	5021.00	102.7	5056.00	103.4	P
Beryllium									
Cadmium	2512.0	2579.00	102.7	1370.0	1356.00	99.0	1341.00	97.9	P
Calcium									
Chromium	999.4	1037.00	103.8	494.0	505.90	102.4	502.00	101.6	P
Cobalt									
Copper									
Iron									
Lead	5024.0	5279.00	105.1	2700.0	2732.00	101.2	2727.00	101.0	P
Magnesium									
Manganese									
Mercury	5.0	4.80	96.0	5.0	4.63	92.6			CV
Nickel									
Potassium									
Selenium									
Silver	1015.0	1026.00	101.1	399.0	458.90	115.0	435.40	109.1	P
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL SERVICES CORPORATION Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJDD01

Initial Calibration Source: NIST

Continuing Calibration Source: NIST

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Found	%R(1)	M
Aluminum									
Antimony									
Arsenic									
Barium				4890.0	5011.00	102.5	4908.00	100.4	P
Beryllium									
Cadmium				1370.0	1335.00	97.4	1307.00	95.4	P
Calcium									
Chromium				494.0	498.70	101.0	483.40	97.9	P
Cobalt									
Copper									
Iron									
Lead				2700.0	2732.00	101.2	2612.00	96.7	P
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver				399.0	433.60	108.7	428.80	107.5	P
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL SERVICES CORPORATION Contract: NESSA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJDD01

Initial Calibration Source: APG

Continuing Calibration Source: PERKIN-ELMER

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium	39.1	38.01	97.2	20.0	21.22	106.1	21.61	108.1	F
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL SERVICES CORPORATION Contract: NESSA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJDD01

Initial Calibration Source: APG

Continuing Calibration Source: PERKIN-ELMER

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium				20.0	19.32	96.6			F
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP
3
BLANKS

Lab Name: ANALYTICAL SERVICES CORPORATION Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJDD01

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic	2.0	U	2.0	U					2.000	U	F
Barium	2.1	B	1.3	U	1.3	U	1.3	U	11.300	B	P
Beryllium											
Cadmium	1.1	U	1.1	U	1.1	U	1.1	U	1.100	U	P
Calcium											
Chromium	5.9	U	5.9	U	5.9	U	5.9	U	5.900	U	P
Cobalt											
Copper											
Iron											
Lead	17.9	U	17.9	U	29.8		52.9		17.900		P
Magnesium											
Manganese											
Mercury	0.2	U	0.2	U					0.140	U	CV
Nickel											
Potassium											
Selenium	1.3	U	1.3	U	1.3	U	1.3	U	1.300	U	F
Silver	5.8	U	5.8	U	5.8	U	5.8	U	6.800	B	P
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

U.S. EPA - CLP
3
BLANKS

Lab Name: ANALYTICAL SERVICES CORPORATION Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJDD01

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic											
Barium			1.3	U							P
Beryllium											
Cadmium			1.1	U							P
Calcium											
Chromium			5.9	U							P
Cobalt											
Copper											
Iron											
Lead			41.3								P
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium											
Silver			5.8	U							P
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

U.S. EPA - CLP
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: ANALYTICAL SERVICES CORPORATION Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJDD01

ICP ID Number: 61 ICS Source: VENTURES

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	501000	553700	501900	502700.0	90.8	469400	471300.0	85.1
Antimony								
Arsenic								
Barium	0	507	2	480.0	94.7	1	453.0	89.3
Beryllium								
Cadmium	0	1021	13	999.0	97.8	17	898.0	88.0
Calcium	191000	255400	196800	246100.0	96.4	186300	232700.0	91.1
Chromium	0	497	-7	482.0	97.0	-3	440.0	88.5
Cobalt								
Copper								
Iron	182000	190500	189200	188600.0	99.0	177000	176600.0	92.7
Lead	0	1038	22	1055.0	101.6	33	968.0	93.3
Magnesium	253000	279900	270100	26800.0	9.6	253200	251400.0	89.8
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver	0	1100	-5	985.0	89.5	-1	928.0	84.4
Sodium								
Thallium								
Vanadium								
Zinc								

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

CLJ-DD-01

Lab Name: ANALYTICAL SERVICES CORPORATION Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-DD-01

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample:

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									P
Antimony									P
Arsenic	75-125	21.3000		0.0000		20.00	106.5		F
Barium	75-125	9840.0000		356.0000		10400.00	91.2		P
Beryllium									P
Cadmium	75-125	948.0000		9.1600		980.00	95.8		P
Calcium									P
Chromium	75-125	4730.0000		12.8000		5220.00	90.4		P
Cobalt									P
Copper									P
Iron									P
Lead	75-125	5100.0000		447.0000		5230.00	89.0		F
Magnesium									P
Manganese									P
Mercury									CV
Nickel									P
Potassium									P
Selenium	75-125	11.3000		0.0000		20.00	56.5	N	F
Silver	75-125	97.4000		1.6900		99.00	96.7		P
Sodium									P
Thallium									F
Vanadium									P
Zinc									P
Cyanide									

Comments:

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

A01SS-105

Lab Name: ANALYTICAL SERVICES CORPORATION Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-DD-01

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample:

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									P
Antimony									P
Arsenic									F
Barium									P
Beryllium									P
Cadmium									P
Calcium									P
Chromium									P
Cobalt									P
Copper									P
Iron									P
Lead									F
Magnesium									P
Manganese									P
Mercury	75-125	2.0700		0.0330		2.00	101.9		CV
Nickel									P
Potassium									P
Selenium									F
Silver									P
Sodium									P
Thallium									F
Vanadium									P
Zinc									P
Cyanide									

Comments:

U.S. EPA - CLP

6

DUPLICATES

EPA SAMPLE NO.

CLJ-DD-01

Lab Name: ANALYTICAL SERVICES CORPORATION Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-DD-01

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: % Solids for Duplicate:

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								P
Antimony								P
Arsenic		21.3000		20.8000		2.4		F
Barium		9840.0000		9250.0000		6.2		P
Beryllium								P
Cadmium		948.0000		985.0000		3.8		P
Calcium								P
Chromium		4730.0000		4440.0000		6.3		P
Cobalt								P
Copper								P
Iron								P
Lead		5100.0000		4710.0000		8.0		F
Magnesium								P
Manganese								P
Mercury								CV
Nickel								P
Potassium								P
Selenium		11.3000		10.3000		9.3		F
Silver		97.4000		86.9000		11.4		P
Sodium								P
Thallium								F
Vanadium								P
Zinc								P
Cyanide								

U.S. EPA - CLP

6

DUPLICATES

EPA SAMPLE NO.

A01SS-105

Lab Name: ANALYTICAL SERVICES CORPORATION Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: A01SS-97

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: % Solids for Duplicate:

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								P
Antimony								P
Arsenic								F
Barium								P
Beryllium								P
Cadmium								P
Calcium								P
Chromium								P
Cobalt								P
Copper								P
Iron								P
Lead								F
Magnesium								P
Manganese								P
Mercury		2.0700		1.9400		6.5		CV
Nickel								P
Potassium								P
Selenium								F
Silver								P
Sodium								P
Thallium								F
Vanadium								P
Zinc								P
Cyanide								

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

0352

Lab Name: *Analytical Services Corp* Contract: NEESA

Lab Code: NA Case #: 015226N SAS #: NA SDG #: CLJ-DD-01

DW No.: NA

EPA Sample No.	Lab Sample ID.
CLJ-DD-01	JN6023

Were ICP interelement corrections applied? Yes/NO NA

Were ICP background corrections applied? Yes/NO NA

If YES - were raw data generated before application of background corrections? Yes/NO NA

COMMENTS: See SDG Narrative

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's Designee, as verified by the following signature.

Signature: [signature] Name: William A. Ethain

Date: 5/12/95 Title: Technical Project Manager

Narrative for SDG # CLJ-DD-01

Conventionals

CLP Forms and/or analytical requirements do not apply to all Conventional Level C deliverable requirements. Every effort was made to conform to the CLP format and all applicable CLP/Level C forms have been included.

The pH results are reported in standard units and not mg/kg.

The Flashpoint results are reported in °C not mg/kg.

The BTU results are reported in BTU/lb. not mg/kg.

The Density results are reported in g/cc not mg/kg.

The method qualifier for pH (Electrode) is "PH", for Flashpoint it is "FP", for BTU it is "BT", for Density it is "D", for the IC Acids it is "IC", Reactive Cyanide it is "RC" and for Reactive Sulfide it is "RS". The CLP manual does not address these results or this method for reporting.

The method blank was within QC limits for this SDG.

The matrix spike and sample duplicate were within QC limits for this SDG.

All initial and continuing calibration criteria were met for this SDG.

The LCS was within acceptable QC limits.

All sample holding times were met for this SDG.

BLANKS (3)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **Lab Code:** NA

Case #: 015226N **SAS #:** NA **SDG #:** CLJ-DD-

Prep Blank Matrix: (soil/water) SOIL

Prep Blank Concentration Units: (ug/L or mg/kg) MG/KG

ANALYTE	Init Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L						Preparation Blank	C	M
			1	C	2	C	3	C			
Reactive Cyanide									10.0	U	RC
Reactive Sulfide									20.0	U	RS
Cyanide	10.0	U							.500	U	CA
Chloride									5.00	U	IC
Nitrate as N									2.50	U	IC
Phosphate as P									3.26	U	IC
Sulfate									10.00	U	IC

CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLI-DD.

Lab Code: NA **Case #:** 015226N **SAS #:** NA **SDG #:** CLI-DD

Matrix: (soil/water) SOIL **Level:** (low/med) LOW **Lab Sample ID:** IN6023

% Solids: 95.7 **Date Received:** 12 / 09 /

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	20.0	U		RS
	Flashpoint, 60°C	>60			FP
	pH (Electrode)	5.68			PH
	Chloride	3.90	B		IC
	Nitrate as N	5.69			IC
	Phosphate as P	3.24	U		IC
	Sulfate	5.50	B		IC
	BTU/lb	5910			BT
	Density g/cc	1.31			DE
	Cyanide	.503	U		CA

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

SPIKE SAMPLE RECOVERY (5A) - 0356

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA Sample #:** CLI-DD-

Lab Code: NA **Case #:** 015226N **SAS #:** NA **SDG #:** CLI-DD-

Matrix: (soil/water) SOIL **Level** (low/med): LOW **% Solids for Sample:** 95.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

ANALYTE	CONTROL LIMIT %R	SPIKE SAMPLE RESULT (SSR)	C	SAMPLE RESULT (SR)	C	SPIKE ADDED (SA)	% R	Q	M
Chloride	75-125	44.4		3.90	B	49.8	81.4		IC
Nitrate as N	75-125	15.7		5.69		11.2	89.2		IC
Phosphate as P	75-125	14.8		3.24	U	16.2	91.0		IC
Sulfate	75-125	47.6		5.50	B	49.8	84.5		IC
Cyanide	75-125	9.55		.503	B	9.75	97.7		CA

COMMENTS:

DUPLICATES (6)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA Sample #:** CLJ-DD-01

Lab Code: NA **Case #:** 015226N **SAS #:** NA **SDG #:** CLJ-DD-01

Matrix: (soil/water) SOIL **% Solids for Sample:** 95.7

Level (low/med): LOW **% Solids for Duplicate:** 95.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

ANALYTE	CONTROL LIMIT	SAMPLE (S)	C	DUPLICATE (D)	C	RPD	Q	M
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
Nieckl								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								
Cyanide	0-20	.503	U	.490	U			CA

DUPLICATES (6)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA Sample #:** CLT-DD-

Lab Code: NA **Case #:** 01522GN **SAS #:** NA **SDG #:** CLT-DD-01

Matrix: (soil/water) SOIL **% Solids for Sample:** 95.7

Level (low/med): LOW **% Solids for Duplicate:** 95.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

ANALYTE	CONTROL LIMIT	SPIKED SAMPLE(s)	C	SPIKED SAMPLE DUPLICATE (D)	C	RPD	Q	M
Chloride	0-20	44.4		44.2		.493		IC
Nitrate as N	0-20	15.7		15.7		0		IC
Phosphate as P	0-20	14.8		15.4		4.05		IC
Sulfate	0-20	47.6		47.4		.474		IC

INITIAL AND CONTINUING CALIBRATION VERIFICATION
(2A)

0359

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: MA **Case #:** 015226N **SAS #:** NA **SDG #:** CLJ-DD-01

Initial Calibration Source: CV-0167 **Continuing Calibration Source:** NA

Concentration Units: ug/L

ANALYTE	INTIAL CALIBRATION True	Found	%R(1)	CONTINUING CALIBRATION True	Found	%R(1)	Found	%R(1)	M
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide	195	195	100 %						CA

(1)Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

INITIAL AND CONTINUING CALIBRATION VERIFICATION
(2A)

0360

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: NA **Case #:** 01522GN **SAS #:** NA **SDG #:** CLJ-DD-01

Initial Calibration Source: AIC-721 **Continuing Calibration Source:** AIC-721

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	INITAL CALIBRATION			CONTINUING CALIBRATION					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Chloride	1500	1510	101	1500	1510	101			
Nitrate as N	1130	1230	109 ~~108~~	1130	1210	107			
Phosphate as P	2440	2590	106	2440	2580	106			
Sulfate	7500	7600	101	7500	7670	102			

(1)Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

OHM Remediation Services Corp.
A Subsidiary of OHM Corporation

ANALYTICAL DIVISION

Laboratory Analysis Report

Client: OHM Remediation Services Corp.
Southern Region (Norcross, GA)

VOLUME I OF I

Attn: Jim Dunn

Project: 15226N - NEESA; Camp LeJeune, Jacksonville, NC

Sample(s): CLJ-DWW-001 and CLJ-TB

Sample Type(s): Liquid

Analysis Performed: Tier II - Conventionals, Metals and Organics

Date Sample Received: January 25 and 26, 1996

Date Order Received: January 26, 1995

Joblink(s): 617489

Reviewed and Approved by: E. Thomas Gran

Thomas E. Gran, Ph.D., Vice President

Date: May 16, 1995

16406 U.S. Route 224 East ▪ P.O. Box 551 ▪ Findlay, OH 45839-0551 ▪ 419-423-3526

SUMMARY OF ANALYTICAL METHODOLOGY

Parameter	Reference	Method
Conventionals		
Solids, Total	MCAWW	160.3
Solids, Total Suspended	MCAWW	160.2
Solids, Total Dissolved	MCAWW	160.1
pH, Electrode	SW-846	9040
Oil & Grease (liquid)	MCAWW	413.1
Metals		
Total Metals	SW-846	6010
Mercury by Cold Vapor	SW-846	7470
Organics		
Volatile Compounds by GC/MS	CLP	SOW
Semi-volatile Compounds by GC/MS	CLP	SOW
Pesticides and PCBs by GC	SW-846	8080

Narrative for SDG # CLJ-DWW-01

Laboratory: OHM Remediation Services Corp.
Analytical Division

Project #: 15226N

Project Location: Camp LeJeune, Jacksonville, NC

Samples in this Sample Delivery Group (SDG):

CLJ-DWW-001 CLJ-TB

Volatile Organics by GC/MS

Zero of 18 surrogate recoveries were outside QC limits.

Zero of 10 matrix spike recoveries and zero of 5 matrix RPD's were outside QC limits.

All target compounds were inadvertently spiked for this analytical batch. Only the required CLP spiking compounds were reported on Form III.

There were low levels of target compounds detected in the method blank and associated samples at levels below the CRQL. All results affected have been flagged with the appropriate qualifier.

Initial and continuing calibration criteria were met.

All internal standard criteria were met for this SDG.

All holding times were met for this SDG.

Semivolatile Organics by GC/MS

Elevated Practical Quantitation Limits (PQL) were reported due to high levels of compounds present in the samples. There appears to be a high level of unresolved hydrocarbons present in the sample.

Zero of 12 surrogates were outside QC limits.

Matrix spike data is not available for the water Sample #CLJ-DWW-001 due to the insufficient sample volume supplied. QA/QC acceptance was based on blank (method) spike recoveries which were within QC limits.

All method blank criteria were met for this SDG.

All compounds met initial calibration criteria.

All internal standard area counts and retention times were within QC limits.

All holding times were met for this SDG.

Pesticides/PCB's by GC

Zero of 6 surrogates were outside QC limits.

Matrix spike data is not available for water samples #CLJ-DWW-001 due to the insufficient sample volume supplied. QA/QC acceptance was based on blank (method) spike recoveries which were within QC limits.

All compounds met %RSD initial calibration criteria for the primary analysis except for the surrogate compound Decachlorobiphenyl (DCB). Four compounds were outside initial calibration criteria for the confirmation analysis, one of which was DCB and the other three compounds were not detected in any of the samples in this SDG. Due to this fact, the initial calibration curve for the confirmation analysis was accepted. All compounds met continuing calibration criteria for the primary, quantitation, analysis. Compounds were outside continuing calibration criteria for the confirmation analysis but is not utilized for quantitation. Therefore, all continuing calibration criteria.

All holding times were met for this SDG.

Signature: _____ Name: William A. Fithian
Date: 5/15/95 Title: Technical Project Manager

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

0005 EPA SAMPLE NO.

CLJ-DWW001

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DWW-01

Matrix: (soil/water) WATER Lab Sample ID: JN7550V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: C1744

Level: (low/med) LOW Date Received: 01/26/95

% Moisture: not dec. _____ Date Analyzed: 02/12/95

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: ~~1.0~~ 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl Chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene Chloride	2	BJ
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-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
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	Methyl-iso-butyl ketone	10	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethylene	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	.8	BJ
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	3	BJ
156-60-5	1,2-Trans-dichloroethylene	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0006 EPA SAMPLE NO.

CLJ-DWW001

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: _____ Case No.: 15226N SAS No.: _____ SDG No.: CLJ-DWW-01

Matrix: (soil/water) WATER Lab Sample ID: JN7550V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: C1744

Level: (low/med) LOW Date Received: 01/26/95

% Moisture: not dec. _____ Date Analyzed: 02/12/95

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

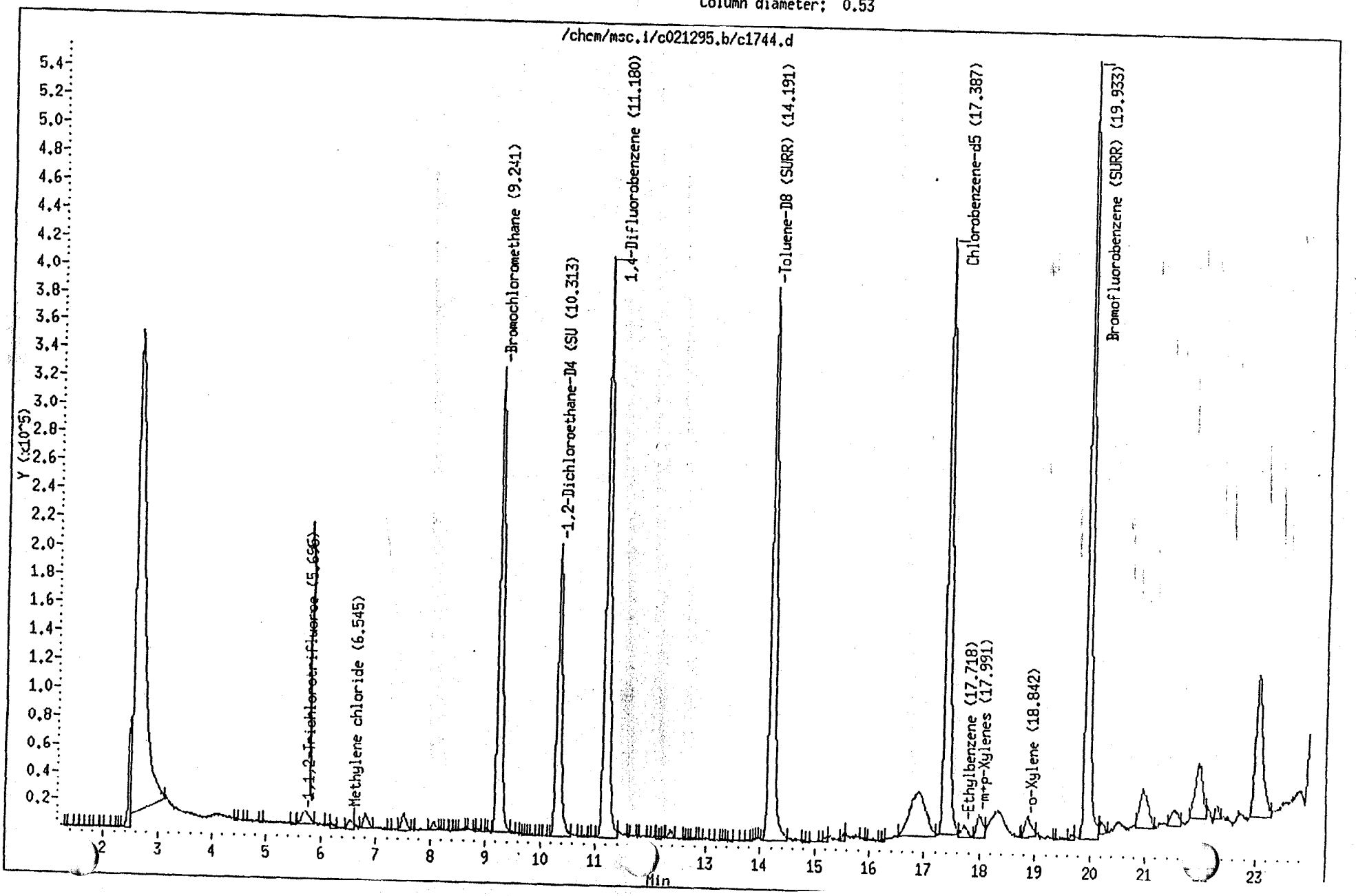
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	112-40-3	Dodecane	16.89	13	JN
2.		Unk hydrocarbon	20.96	6	J
3.		Unk hydrocarbon	21.97	8	J
4.	629-50-5	Tridecane	23.05	19	JN

0007

Data File: /chem/msc.i/c021295.b/c1744.d
Date : 12-FEB-95 14:49
Client ID: 15226n clj-dww001
Sample Info: 15226n clj-dww001
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i

Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c021295.b/c1744.d
Report Date: 18-Feb-1995 16:19

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msc.i/c021295.b/c1744.d
Lab Smp Id:
Client Smp ID: 15226n clj-dww001
Inj Date : 12-FEB-95 14:49
Operator : jk
Inst ID: msc.i
Smp Info : 15226n clj-dww001
Misc Info : jn7550v,n1v4210,1:m2,5.00,5.00:1,
Comment :
Method : /chem/msc.i/c021295.b/020595ambic.m
Meth Date : 18-Feb-1995 15:35 jeff
Quant Type: ISTD
Cal Date : 12-FEB-95 13:29
Cal File: c1742.d
Als bottle: 7
Dil Factor: 1.000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	1,1,2-Trichlorotrifluoroethan	101.00	5.695	5.699	(0.616)	19958	1.58	1.58(a)
	12 Methylene chloride	84.00	6.536	6.526	(0.707)	9707	1.62	1.62(aQM)
*	20 Bromochloromethane	128.00	9.241	9.242	(1.000)	203064	50.0	
$	24 1,2-Dichloroethane-D4 (SURR)	65.00	10.322	10.324	(1.117)	394954	49.8	49.8
*	27 1,4-Difluorobenzene	114.00	11.188	11.183	(1.000)	813583	50.0	
$	34 Toluene-D8 (SURR)	98.00	14.191	14.198	(0.816)	714153	49.0	49.0
*	42 Chlorobenzene-d5	117.00	17.387	17.387	(1.000)	597063	50.0	
	44 Ethylbenzene	106.00	17.718	17.711	(1.019)	4307	0.759	0.759(Q)
	45 m+p-Xylenes	106.00	17.991	17.967	(1.035)	13408	1.91	1.91(a)
	46 o-Xylene	106.00	18.842	18.834	(1.084)	5095	0.709	0.709(a)
$	49 Bromofluorobenzene (SURR)	95.00	19.925	19.934	(1.146)	618436	49.4	49.4

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: /chem/msc.i/c021295.b/c1744.d

Date : 12-FEB-95 14:49

Client ID: 15226n clj-dww001

Instrument: msc.i

Sample Info: 15226n clj-dww001

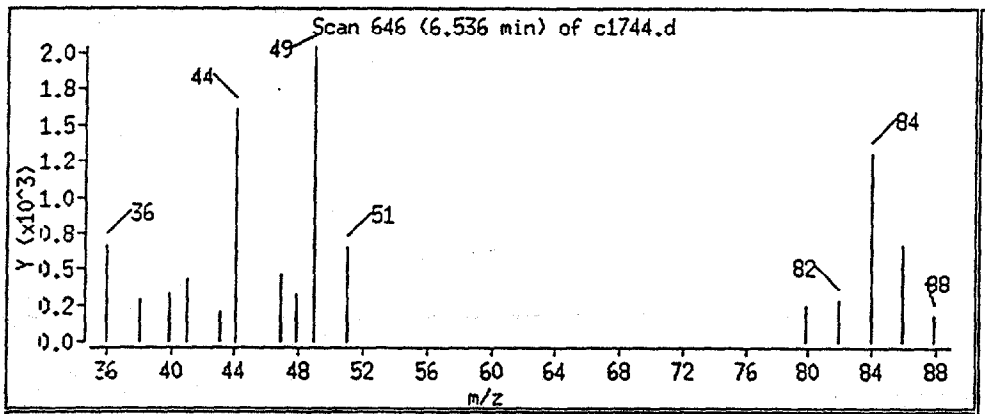
Purge Volume: 1.0

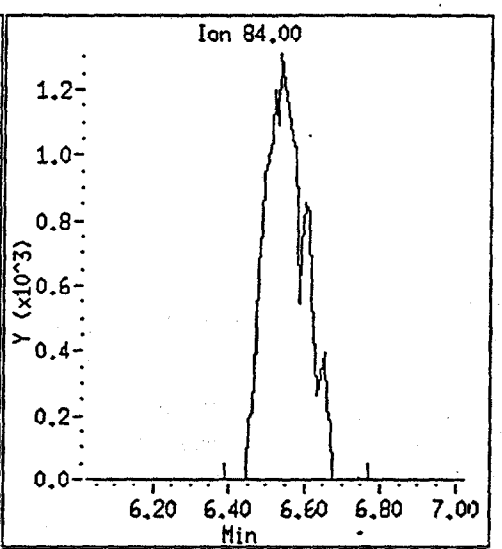
Operator: jk

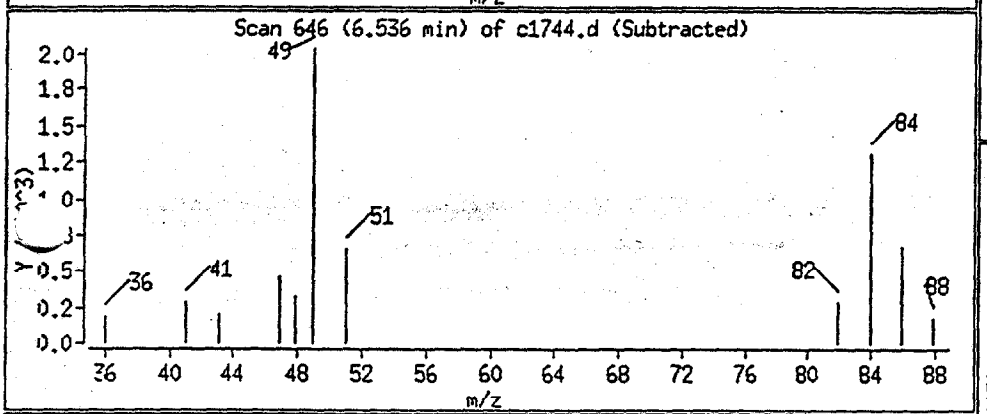
Column phase: J&W DB_624

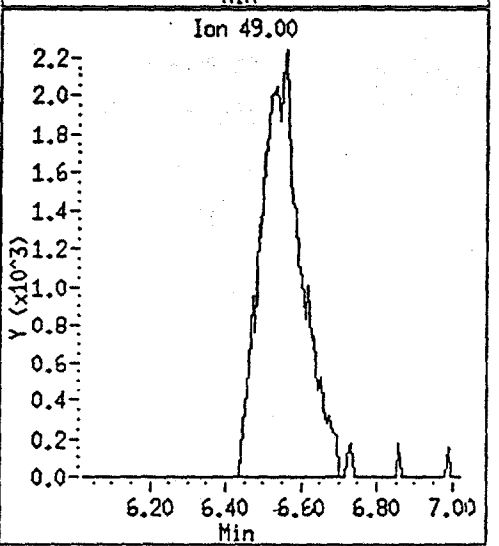
Column diameter: 0.53

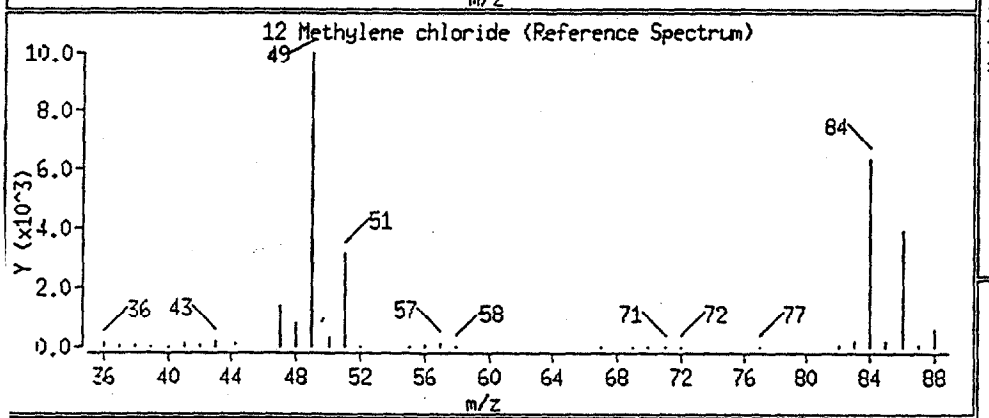
12 Methylene chloride

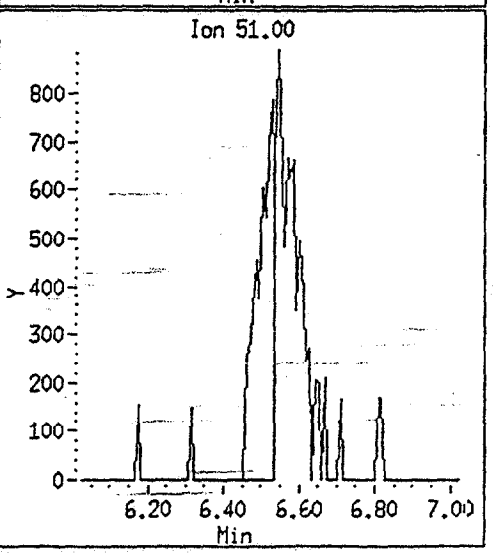


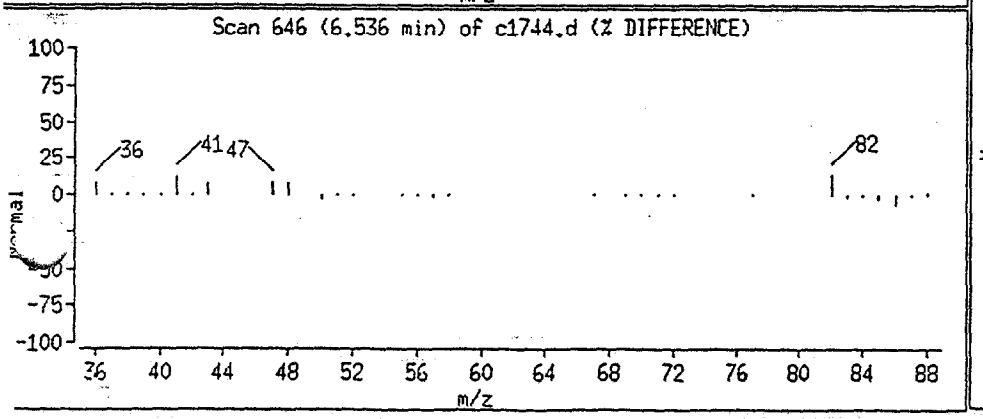












Data File: /chem/msc.i/c021295.b/c1744.d

Date : 12-FEB-95 14:49

Client ID: 15226n clj-dww001

Instrument: msc.i

Sample Info: 15226n clj-dww001

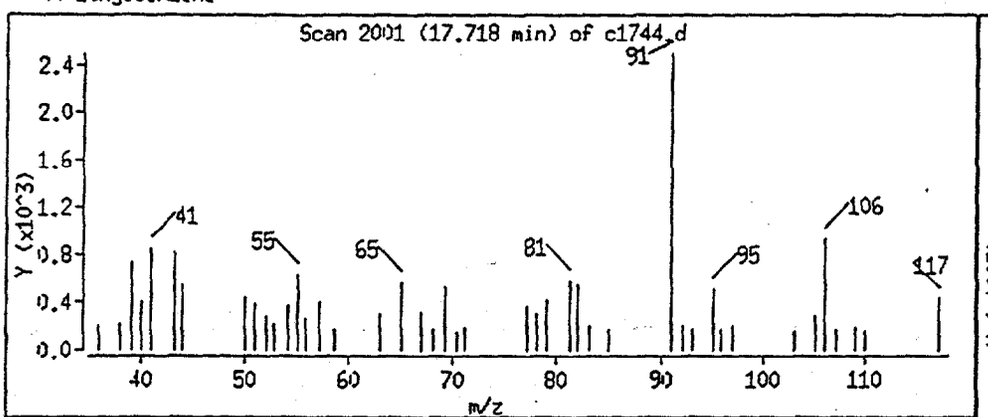
Purge Volume: 1.0

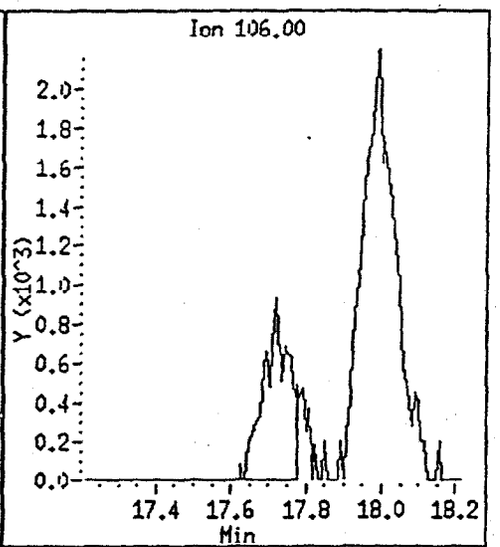
Operator: jk

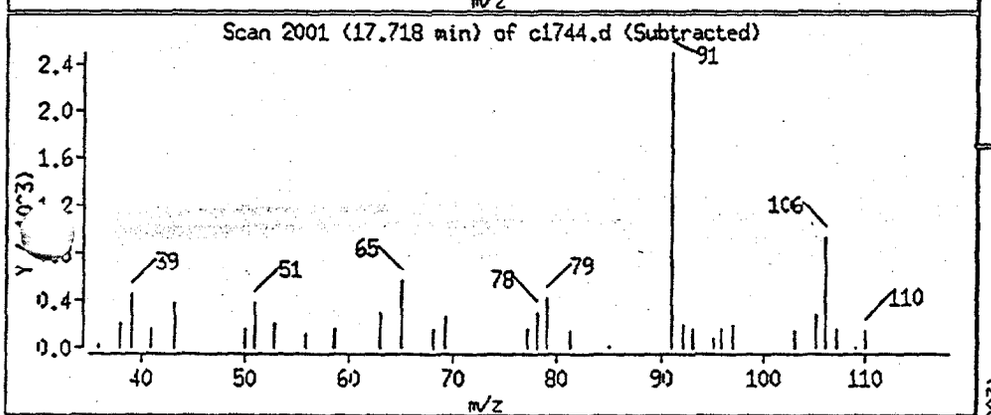
Column phase: J&W DB_624

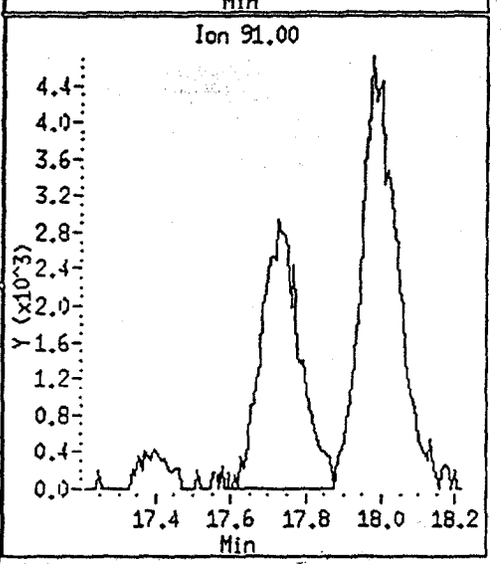
Column diameter: 0.53

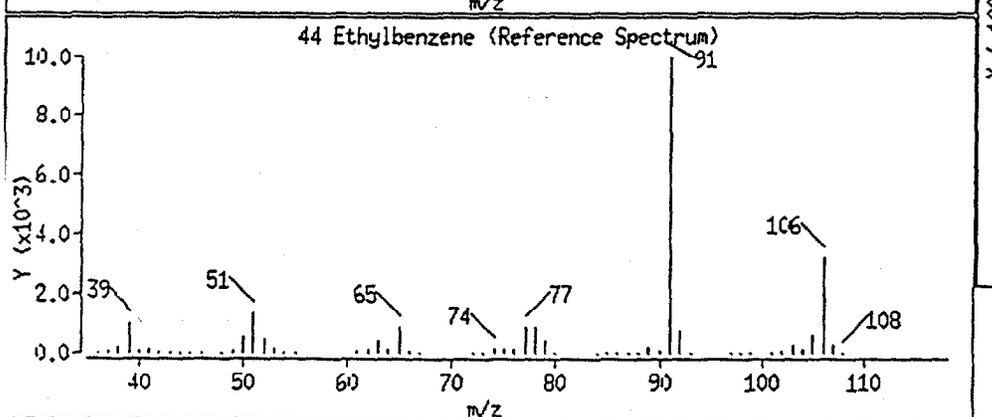
44 Ethylbenzene

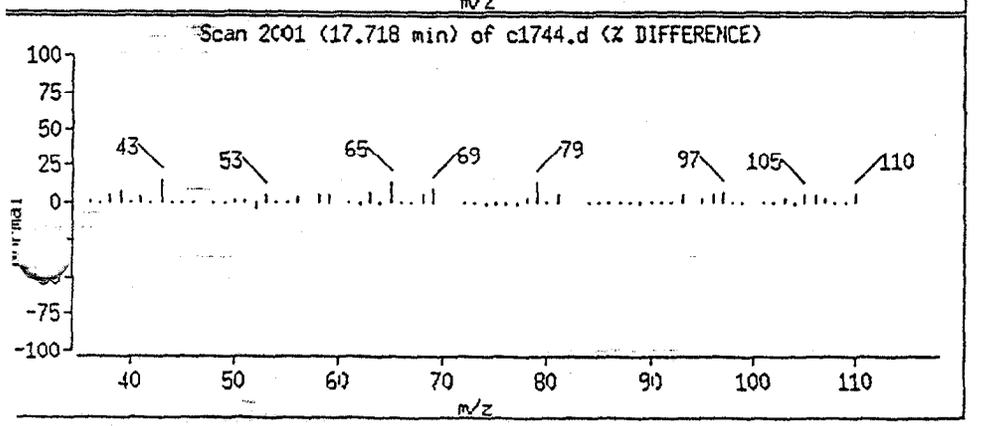












Data File: /chem/msc.i/c021295.b/c1744.d

Date : 12-FEB-95 14:49

Client ID: 15226n clj-dww001

Instrument: msc.i

Sample Info: 15226n clj-dww001

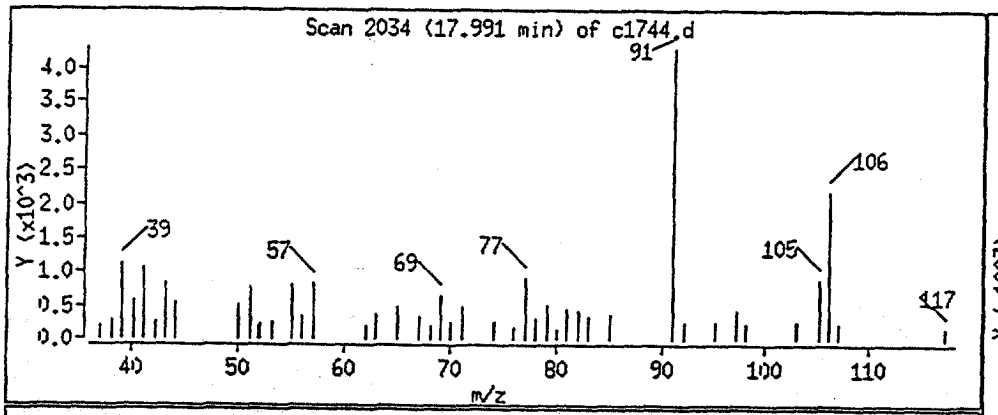
Purge Volume: 1.0

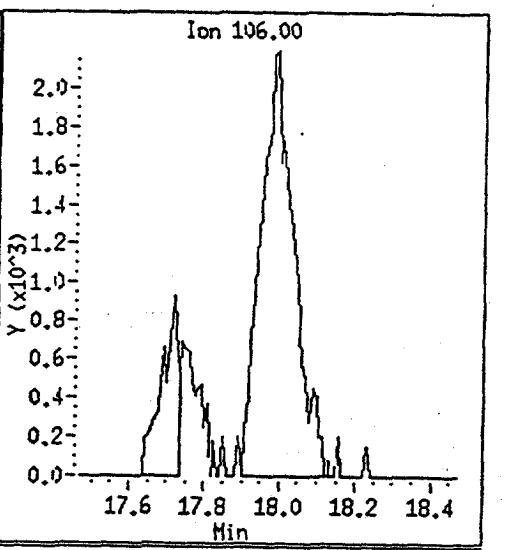
Operator: jk

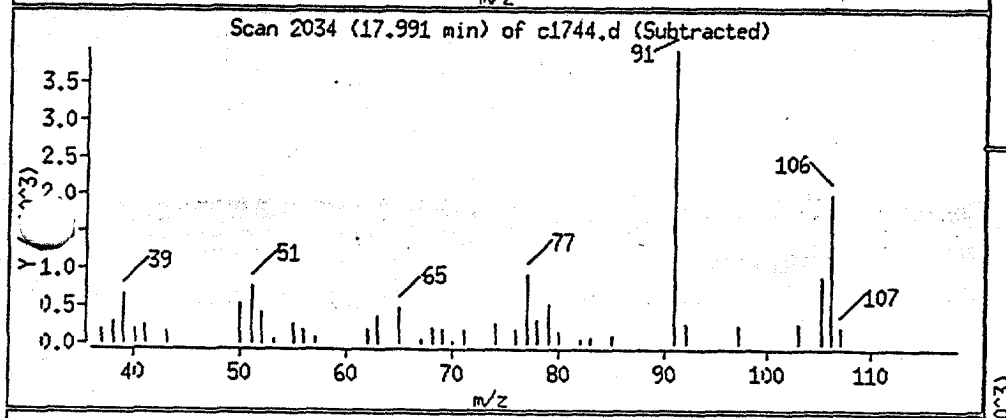
Column phase: J&W DB_624

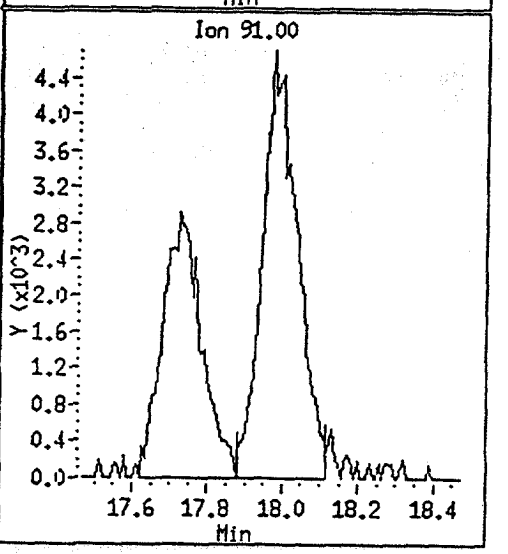
Column diameter: 0.53

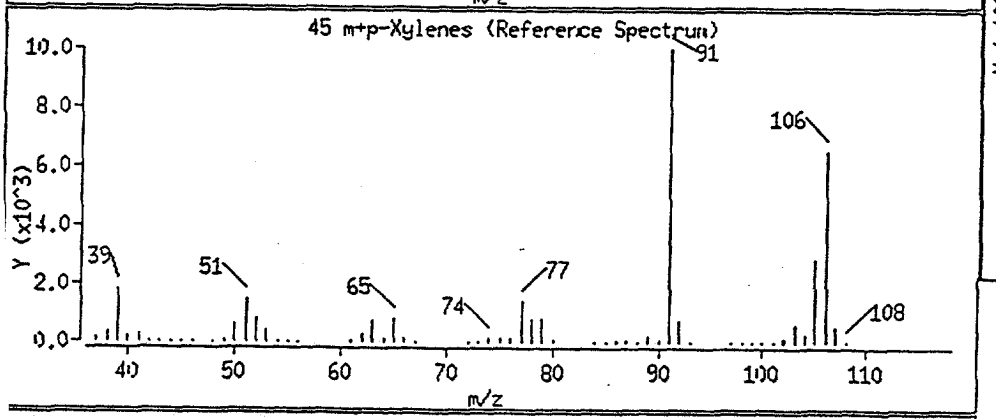
45 m+p-Xylenes

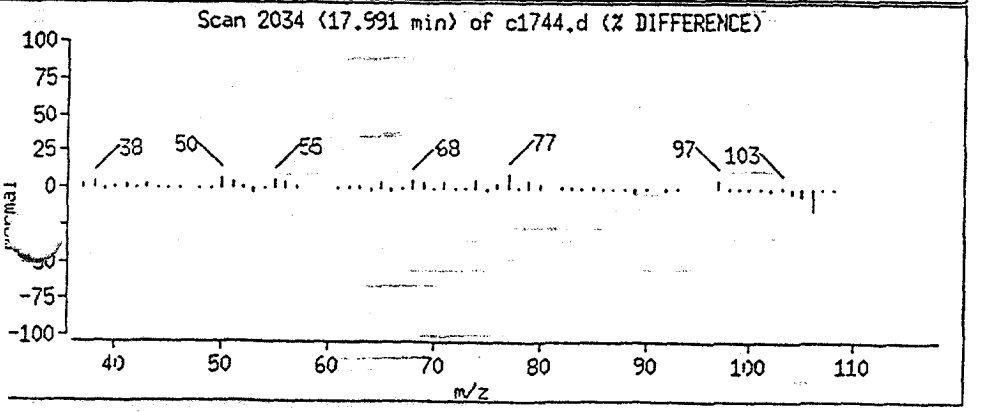












Data File: /chem/msc.i/c021295.b/c1744.d

Date : 12-FEB-95 14:49

Client ID: 15226n clj-dww001

Instrument: msc.i

Sample Info: 15226n clj-dww001

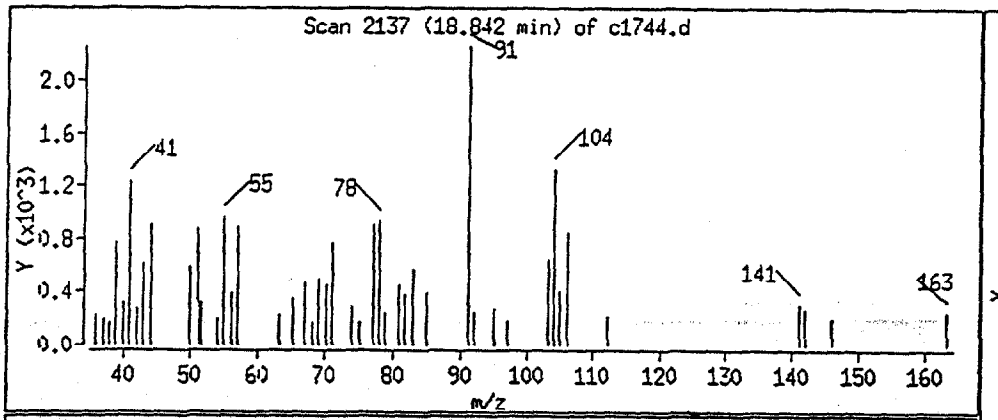
Purge Volume: 1.0

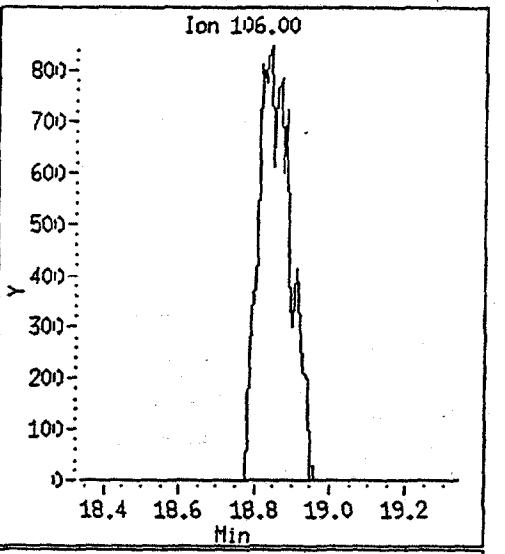
Operator: jk

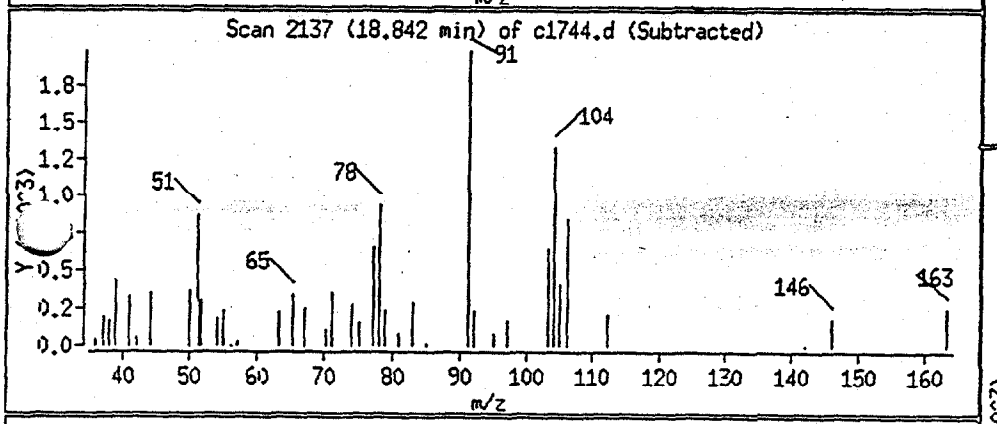
Column phase: J&W DB_624

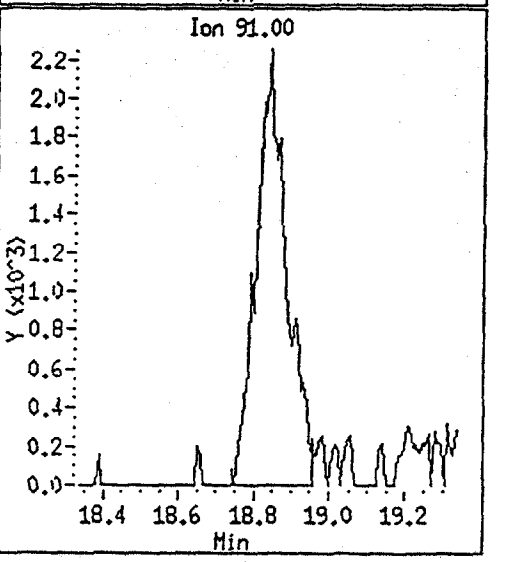
Column diameter: 0.53

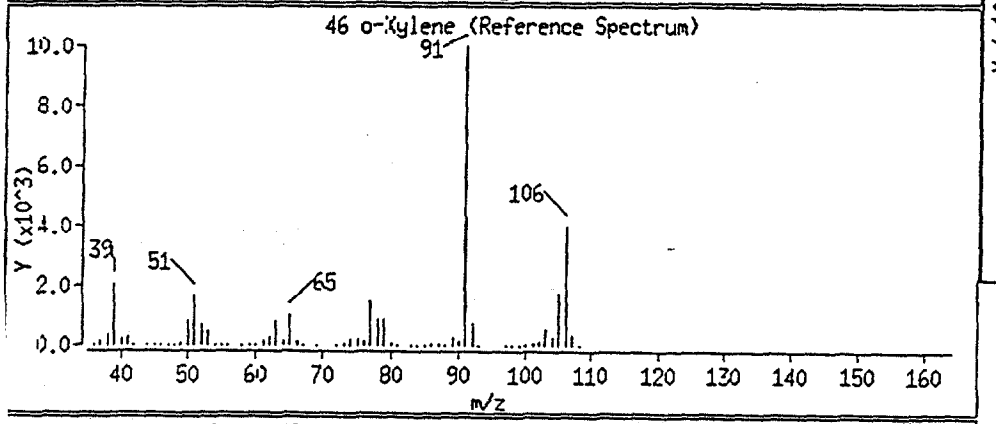
46 o-Xylene

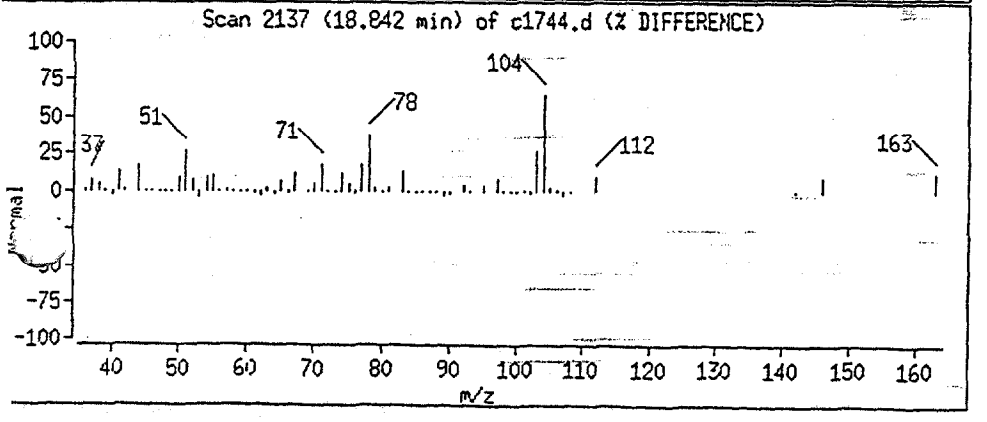












Data File: /chem/msc.i/c021295.b/c1744.d

Date : 12-FEB-95 14:49

Client ID: 15226n clj-dww001

Instrument: msc.i

Sample Info: 15226n clj-dww001

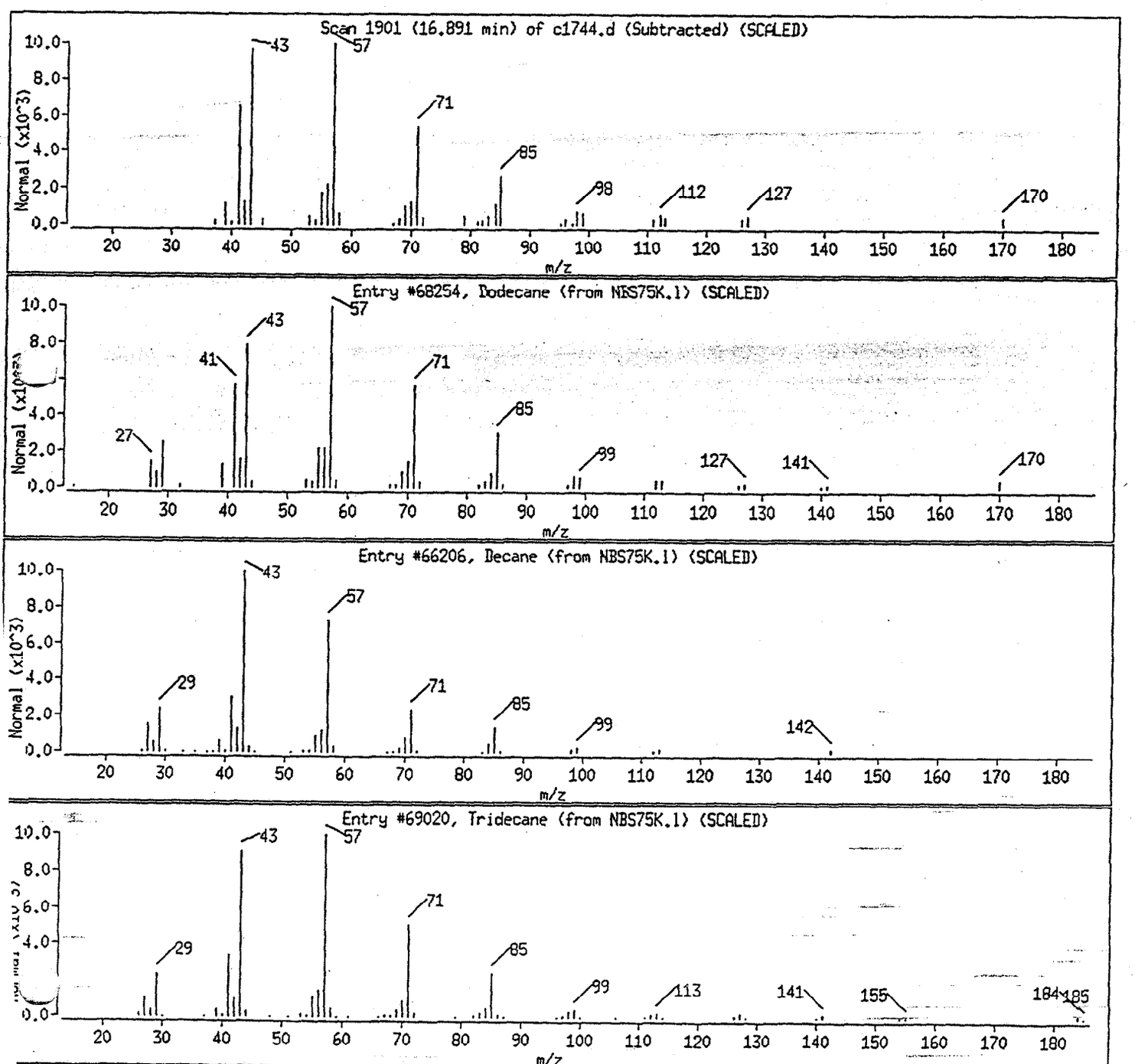
Purge Volume: 1.0

Operator: jk

Column phase: J&W DB_624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Dodecane	112-40-3	NBS75K.l	68254	95	C12H26	170
Decane	124-18-5	NBS75K.l	66206	72	C10H22	142
Tridecane	629-50-5	NBS75K.l	69020	64	C13H28	184



Data File: /chem/msc.i/c021295.b/c1744.d

Date : 12-FEB-95 14:49

Client ID: 15226n clj-dww001

Instrument: msc.i

Sample Info: 15226n clj-dww001

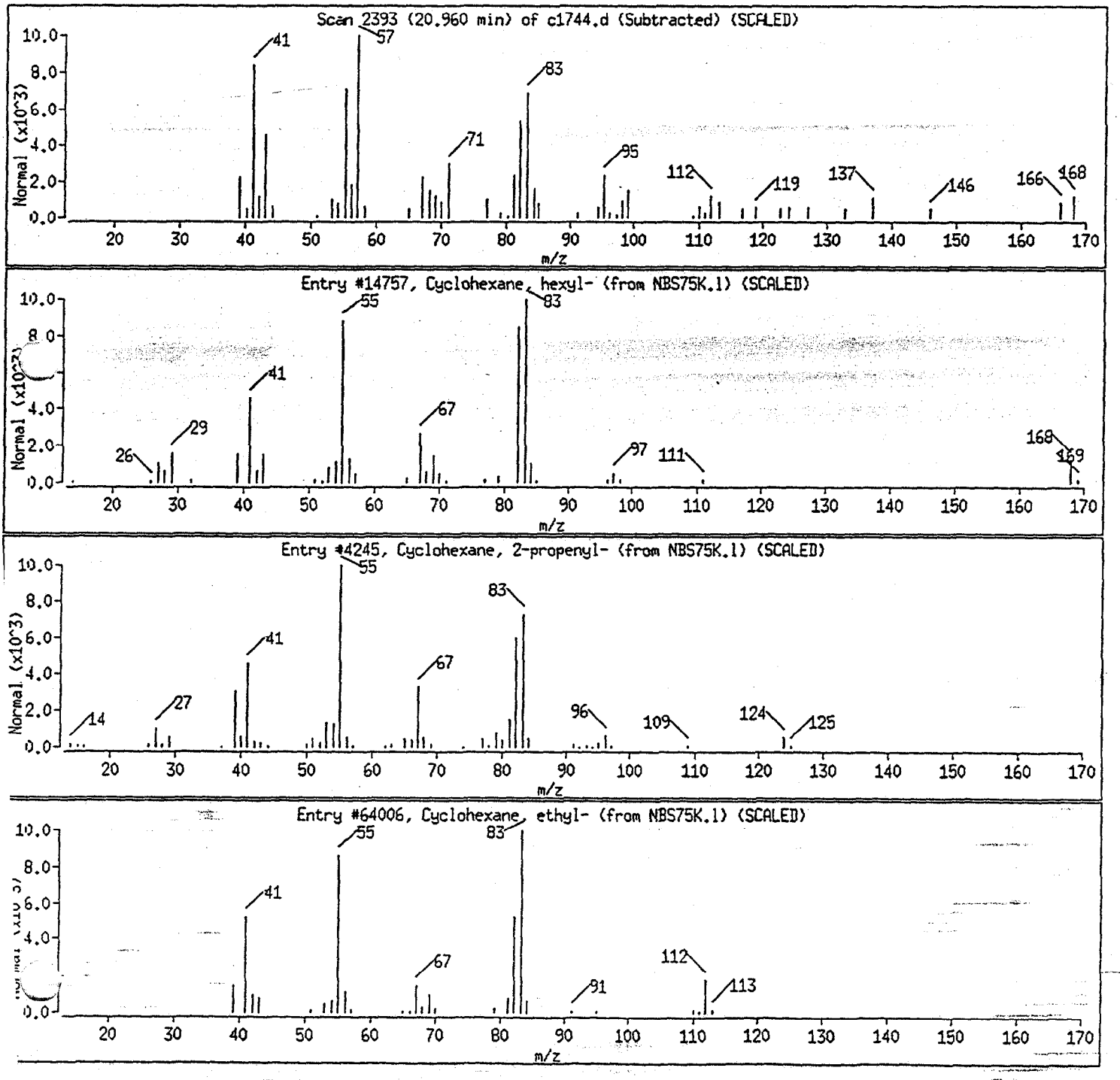
Purge Volume: 1.0

Operator: jk

Column phase: J&W DB_624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexane, hexyl-	4292-75-5	NBS75K.1	14757	43	C12H24	168
Cyclohexane, 2-propenyl-	2114-42-3	NBS75K.1	4245	38	C9H16	124
Cyclohexane, ethyl-	1678-91-7	NBS75K.1	64006	38	C8H16	112



Data File: /chem/msc.i/c021295.b/c1744.d

Date : 12-FEB-95 14:49

Client ID: 15226n clj-dww001

Instrument: msc.i

Sample Info: 15226n clj-dww001

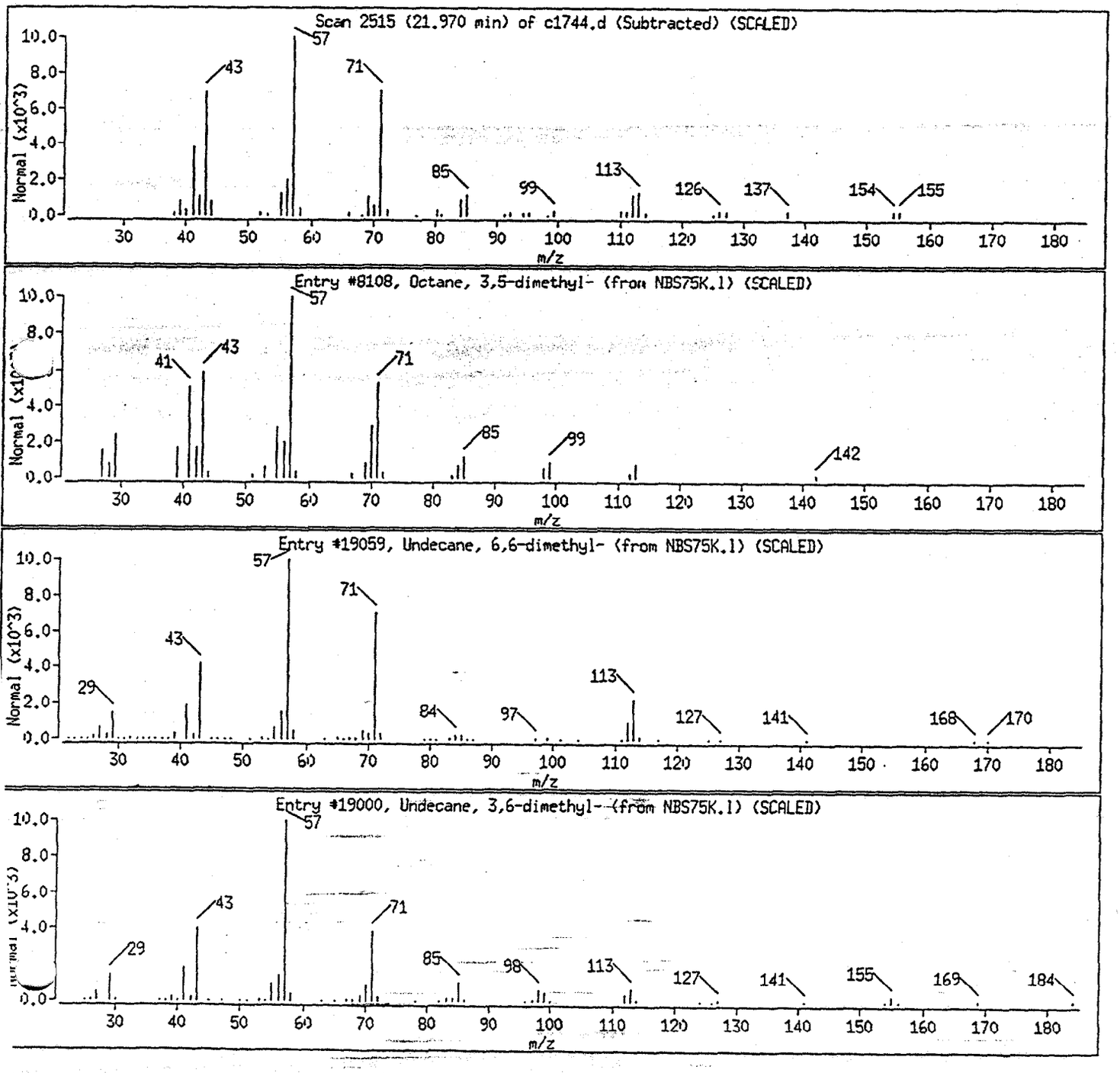
Purge Volume: 1.0

Operator: jk

Column phase: J&W DB_624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Octane, 3,5-dimethyl-	15869-93-9	NBS75K.1	8108	72	C10H22	142
Undecane, 6,6-dimethyl-	17312-76-4	NBS75K.1	19059	64	C13H28	184
Undecane, 3,6-dimethyl-	17301-28-9	NBS75K.1	19000	64	C13H28	184



Data File: /chem/msc.i/c021295.b/c1744.d

Date : 12-FEB-95 14:49

Client ID: 15226n clj-dww001

Instrument: msc.i

Sample Info: 15226n clj-dww001

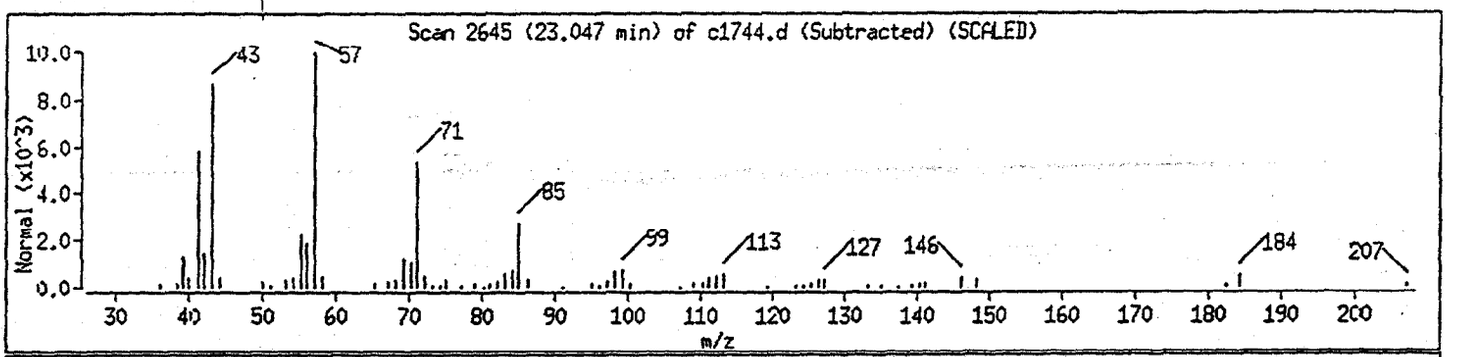
Purge Volume: 1.0

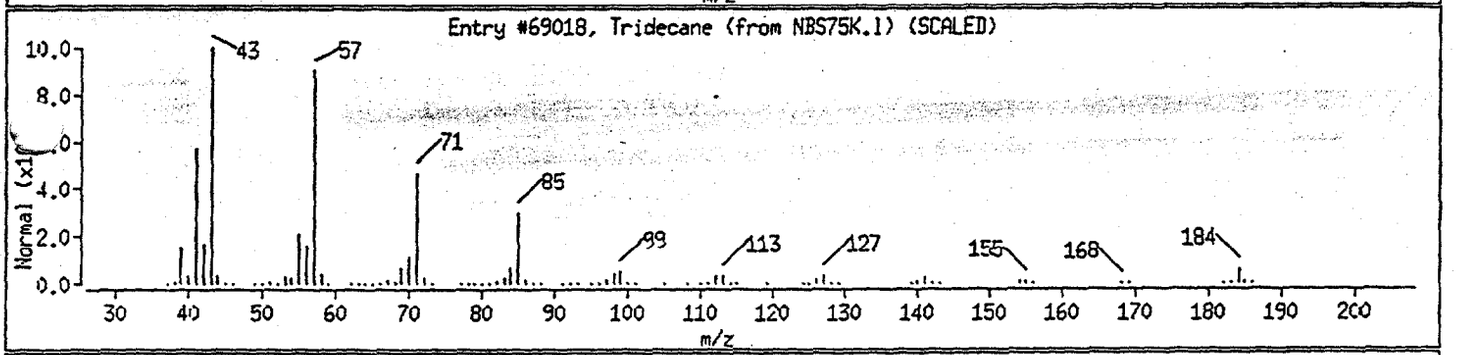
Operator: jk

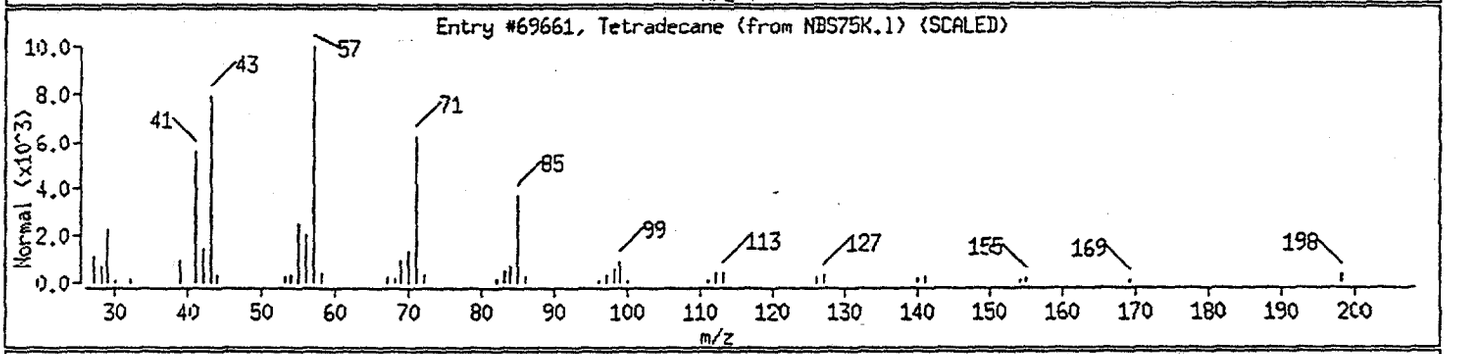
Column phase: J&W DB_624

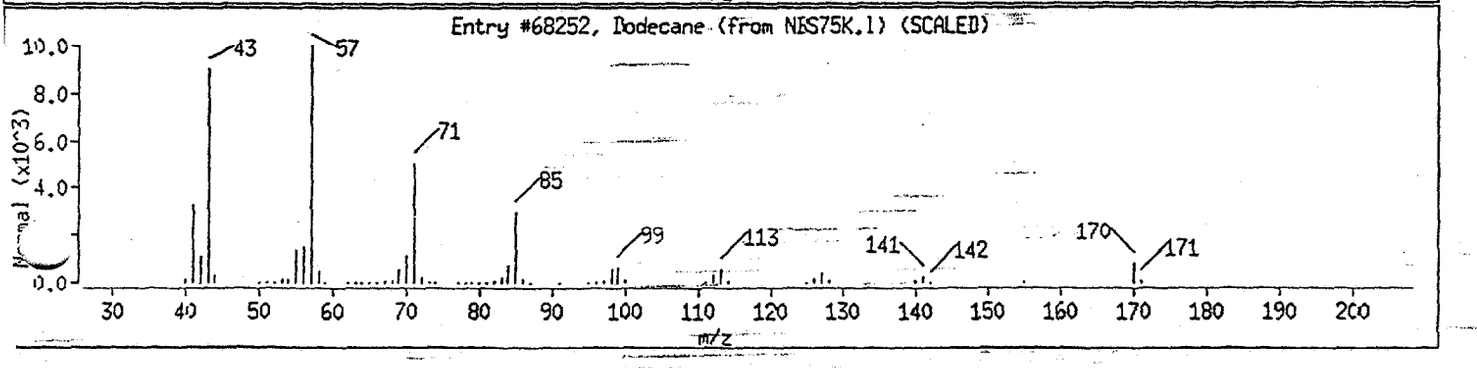
Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tridecane	629-50-5	NBS75K.l	69018	95	C13H28	184
Tetradecane	629-59-4	NBS75K.l	69661	83	C14H30	198
Dodecane	112-40-3	NBS75K.l	68252	80	C12H26	170









1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

0017 EPA SAMPLE NO.

CLJ-TB

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DWW-01

Matrix: (soil/water) WATER Lab Sample ID: JN7551V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: C1718

Level: (low/med) LOW Date Received: 01/26/95

% Moisture: not dec. _____ Date Analyzed: 02/09/95

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl Chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene Chloride	3	BJ
67-64-1	Acetone	3	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-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
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	Methyl-iso-butyl ketone	10	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethylene	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
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U
156-60-5	1,2-Trans-dichloroethylene	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0018 EPA SAMPLE NO.

CLJ-TB

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: _____ Case No.: 15226N SAS No.: _____ SDG No.: CLJ-DWW-01

Matrix: (soil/water) WATER Lab Sample ID: JN7551V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: C1718

Level: (low/med) LOW Date Received: 01/26/95

% Moisture: not dec. _____ Date Analyzed: 02/09/95

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: /chem/msc.i/c020995c.b/c1718.d
Report Date: 18-Feb-1995 15:36

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msc.i/c020995c.b/c1718.d
Lab Smp Id:
Client Smp ID: 015226n clj-tb
Inj Date : 09-FEB-95 22:57
Operator : jk
Inst ID: msc.i
Smp Info : 015226n clj-tb
Misc Info : jn7551v,n1v4216,1:m2,5.00,5.00:1
Comment :
Method : /chem/msc.i/c020995c.b/020595ambic.m
Meth Date : 18-Feb-1995 15:36 jeff
Quant Type: ISTD
Cal Date : 09-FEB-95 14:43
Cal File: c1705.d
Als bottle: 5
Dil Factor: 1.000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	10 Acetone	43.00	5.795	5.788	(0.624)	5563	3.36	3.36(a)
	12 Methylene chloride	84.00	6.595	6.556	(0.710)	17420	3.06	3.06(a)
*	20 Bromochloromethane	128.00	9.291	9.272	(1.000)	202999	50.0	
$	24 1,2-Dichloroethane-D4 (SURR)	65.00	10.371	10.346	(1.116)	410260	50.6	50.6
*	27 1,4-Difluorobenzene	114.00	11.230	11.214	(1.000)	803777	50.0	
$	34 Toluene-D8 (SURR)	98.00	14.247	14.228	(0.818)	662613	49.6	49.6
*	42 Chlorobenzene-d5	117.00	17.420	17.416	(1.000)	570380	50.0	
	44 Ethylbenzene	106.00	18.023	17.731	(1.035)	1591	0.283	~~0.283(aQ)~~
	45 m+p-Xylenes	106.00	18.023	17.996	(1.035)	1591	0.233	~~0.233(aQ)~~
$	49 Bromofluorobenzene (SURR)	95.00	19.967	19.954	(1.146)	572976	50.1	50.1

QC Flag Legend

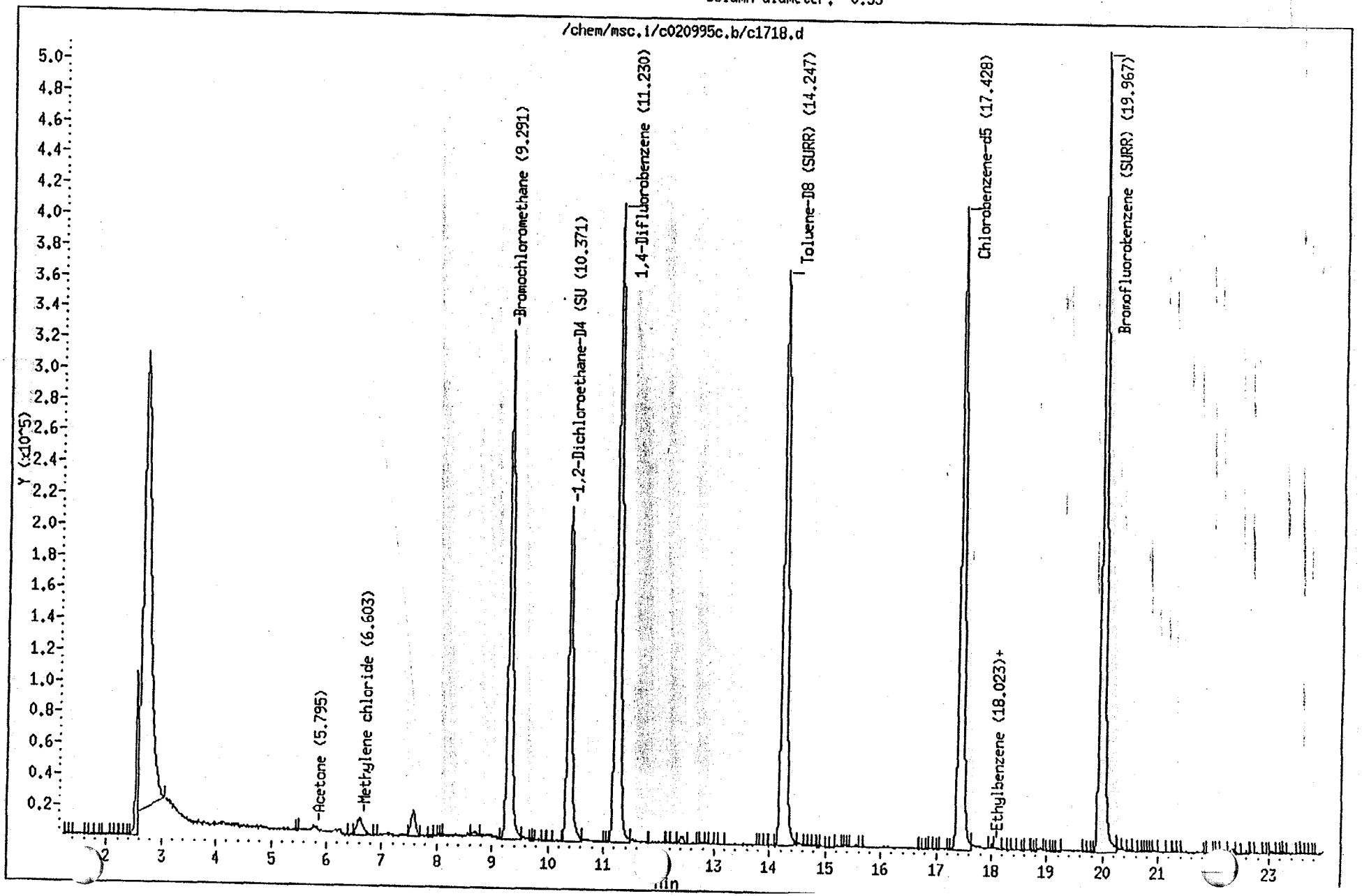
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

0020

Data File: /chem/msc.i/c020995c.b/c1718.d
Date : 09-FEB-95 22:57
Client ID: 015226n clj-tb
Sample Info: 015226n clj-tb
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i

Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c020995c.b/c1718.d

Date : 09-FEB-95 22:57

Client ID: 015226n clj-tb

Instrument: msc.i

Sample Info: 015226n clj-tb

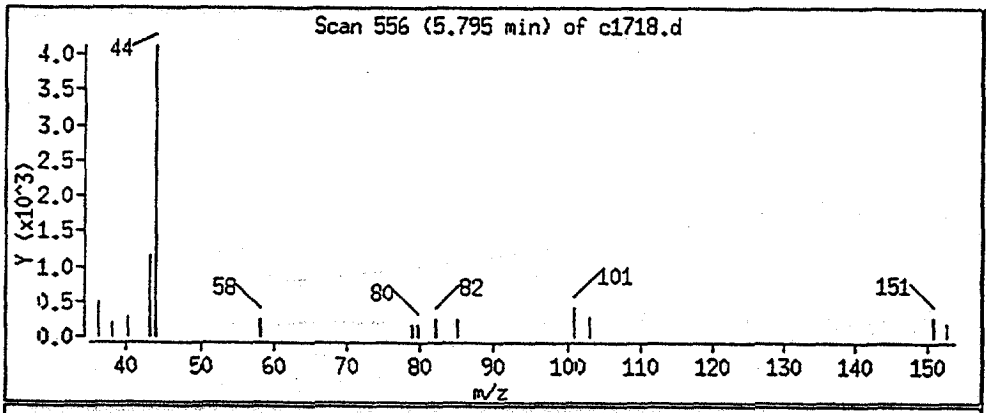
Purge Volume: 1.0

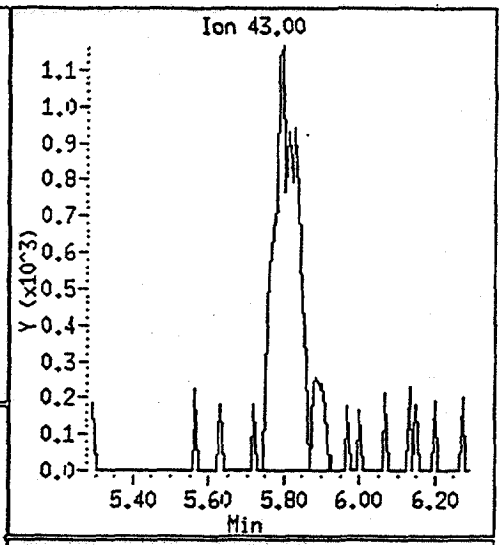
Operator: jk

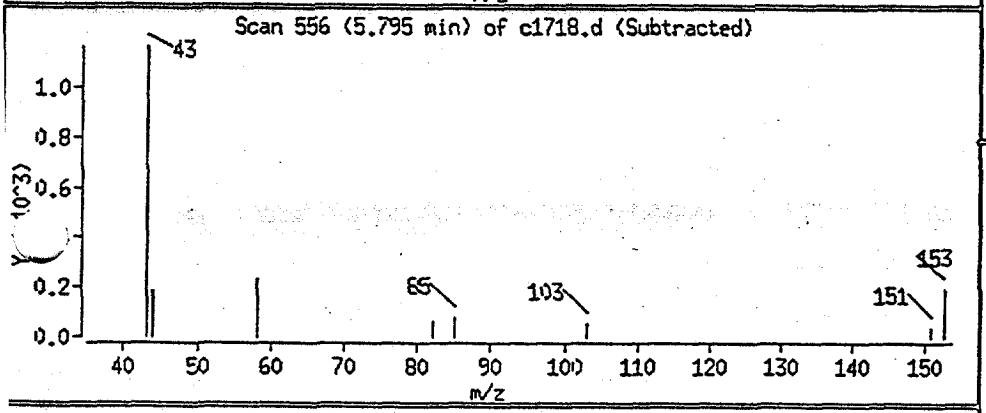
Column phase: J&W DB_624

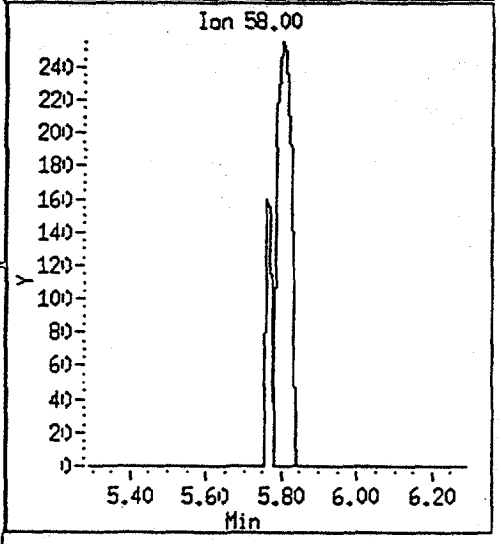
Column diameter: 0.53

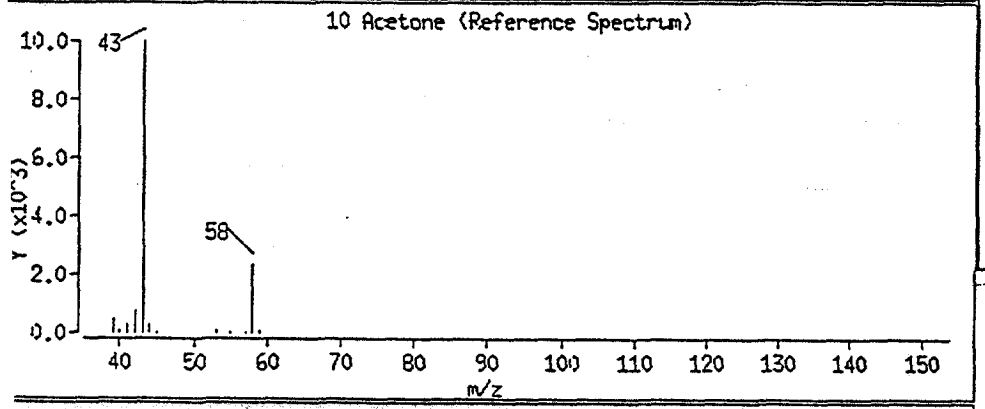
10 Acetone

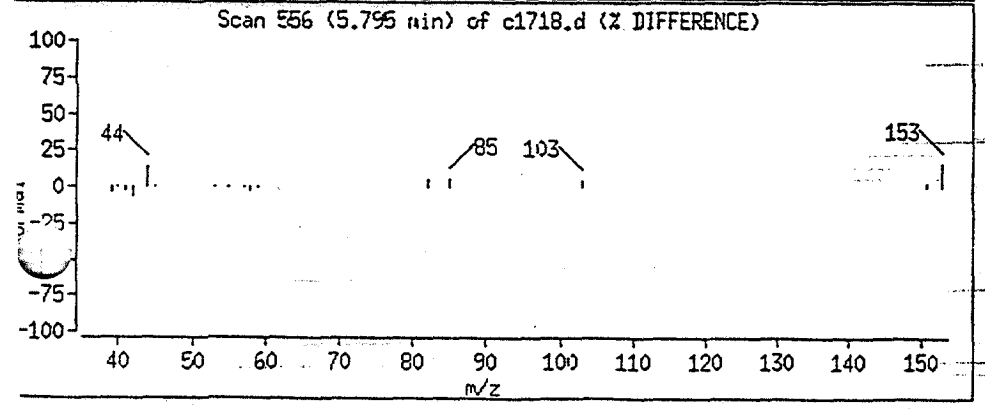












Data File: /chem/msc.i/c020995c.b/c1718.d

Date : 09-FEB-95 22:57

Client ID: 015226n clj-tb

Instrument: msc.i

Sample Info: 015226n clj-tb

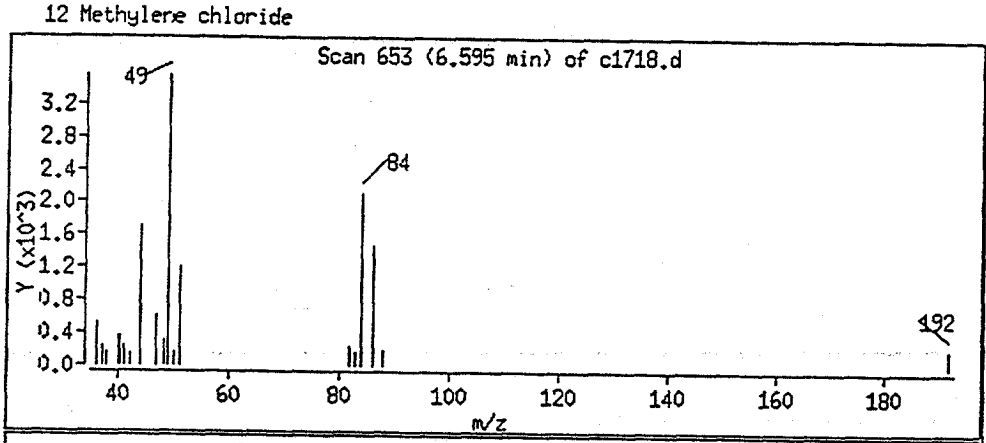
Purge Volume: 1.0

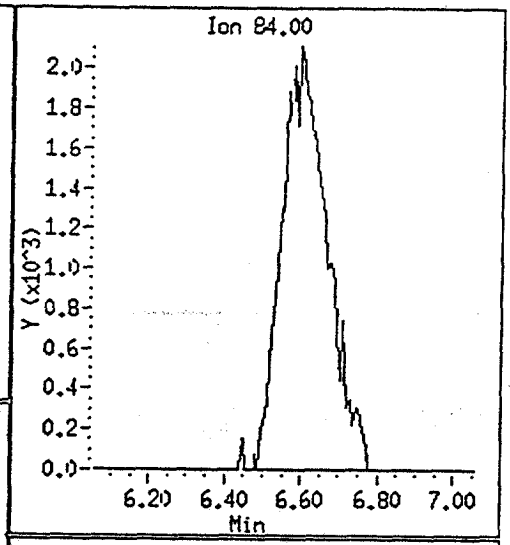
Operator: jk

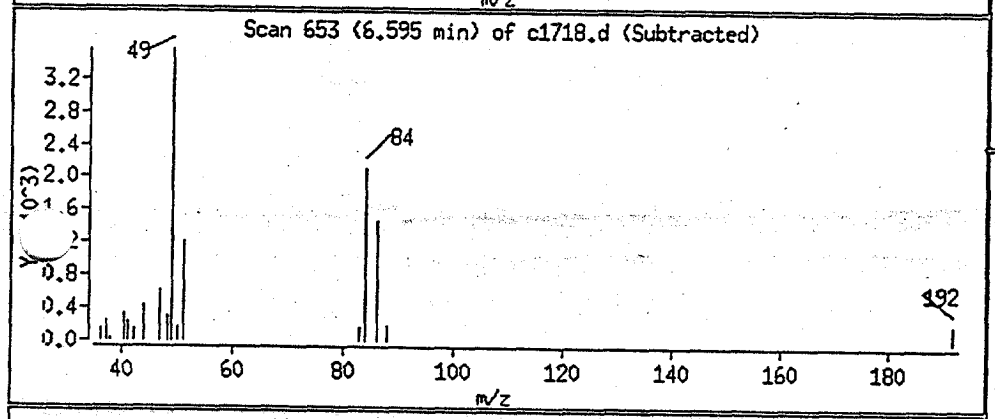
Column phase: J&W DB_624

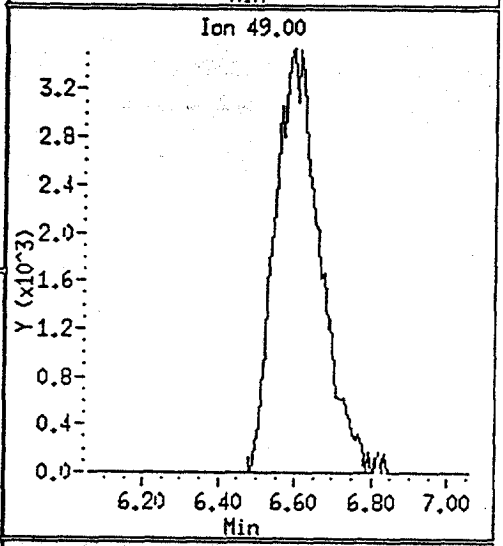
Column diameter: 0.53

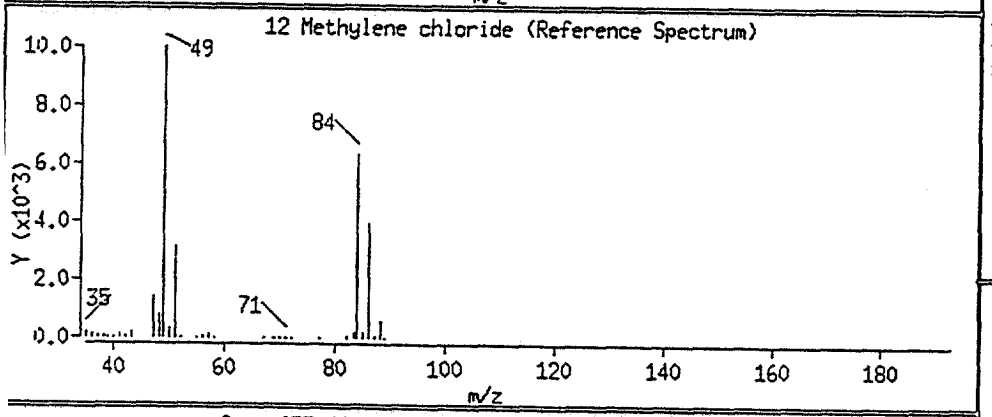
12 Methylene chloride

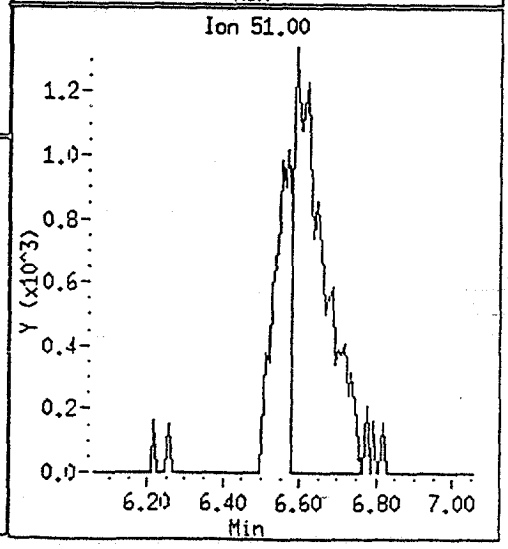


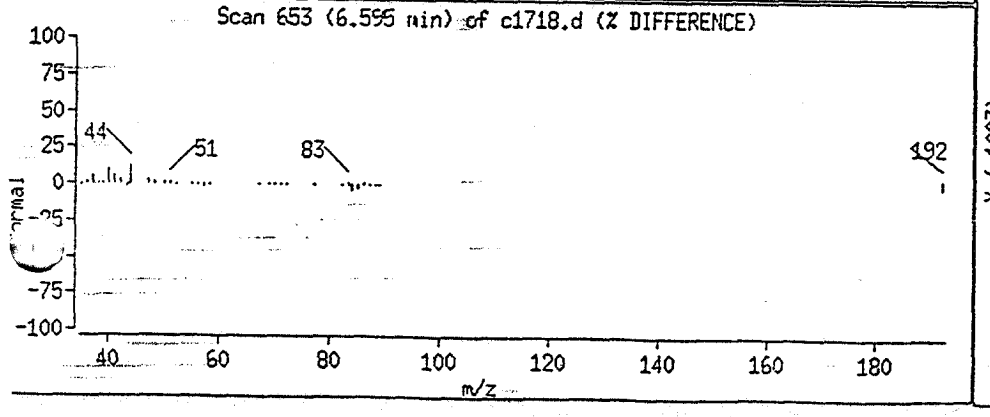












Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DWW-01

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
~~01~~	~~CLJ-2-C7FB~~	~~99~~	~~99~~	~~91~~		~~0~~
~~02~~	~~CLJ-2-C7TB~~	~~96~~	~~102~~	~~96~~		~~0~~
~~03~~	~~CLJ-2-C7TBMS~~	~~105~~	~~102~~	~~103~~		~~0~~
04	VBLK01	96	99	94		0
05	VSPK01	102	102	97		0
~~06~~	~~CLJ-2-C7RB~~	~~108~~	~~106~~	~~103~~		~~0~~
07	CLJ-TB	99	100	101		0
08	CLJ-DWW001	98	99	100		0
09	CLJ-DWW001MS	101	99	105		0
10	CLJ-DWW001MSD	98	96	106		0

		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(88-110)
SMC2 (BFB)	= Bromofluorobenzene	(86-115)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring compound diluted out

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DWW-01

Matrix Spike - EPA Sample No.: CLJ-DWW001

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethylene	50	0	49	98	61-145
Trichloroethylene	50	0	50	99	71-120
Benzene	50	0	50	99	76-127
Toluene	50	0	49	98	76-125
Chlorobenzene	50	0	48	96	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethylene	50	49	98	.2	14	61-145
Trichloroethylene	50	49	99	.6	14	71-120
Benzene	50	50	100	1	11	76-127
Toluene	50	48	96	2	13	76-125
Chlorobenzene	50	48	96	.2	13	75-130

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

* Values outside of QC limits

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

COMMENTS: _____

3A
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DWW-01

Matrix Spike - EPA Sample No.: VSPK01

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC LIMITS REC.
1,1-Dichloroethylene	50	0	51	102	61-145
Trichloroethylene	50	0	50	100	71-120
Benzene	50	2	48	93	76-127
Toluene	50	0	50	100	76-125
Chlorobenzene	50	0	50	100	75-130

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

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS: _____

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DWW-01

Lab File ID: C1652 Lab Sample ID: N1V4210V

Date Analyzed: 02/07/95 Time Analyzed: 17:22

GC Column: _____ ID: _____ (mm) Heated Purge: (Y/N) ___

Instrument ID: SC

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
~~01~~	~~CLJ-2-C7FB~~	~~JN7651V~~	~~C1647~~	~~14:14~~
~~02~~	~~CLJ-2-C7TB~~	~~JN7653V~~	~~C1649~~	~~15:37~~
~~03~~	~~CLJ-2-C7RB~~	~~JN7652V~~	~~C1654~~	~~18:31~~
04	CLJ-TB	JN7551V	C1718	22:57
05	CLJ-DWW001	JN7550V	C1744	14:49
06	CLJ-DWW001MSD	JN7550VR	C1746	16:00
07	VSPK01	N1V4210VS	C1653	17:56
~~08~~	~~CLJ-2-C7TBMS~~	~~JN7653VS~~	~~C1650~~	~~16:12~~
09	CLJ-DWW001MS	JN7550VS	C1745	15:25

COMMENTS:

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ASC Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DWWS-01

Lab File ID: c1590.d BFB Injection Date: 2-5-95

Instrument ID: MSC.i BFB Injection Time: 1828

GC Column: _____ ID: _____(mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23.59
75	30.0 - 66.0% of mass 95	51.83
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.81
173	Less than 2.0% of mass 174	0.00 (0.00) 1
174	50.0 - 120.0% of mass 95	57.72
175	4.0 - 9.0 % of mass 174	4.98 (8.63) 1
176	93.0 - 101.0% of mass 174	57.39 (99.43) 1
177	5.0 - 9.0% of mass 176	3.96 (6.90) 2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	INITIAL CALIBRATION	VSTD010	c1591.d	2-5-95	1858
02		VSTD020	c1592.d	2-5-95	1934
03		VSTD050	c1593.d	2-5-95	2008
04		VSTD100	c1594.d	2-5-95	2044
05		VSTD200	c1595.d	2-5-95	2118
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ASC Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DKW-01

Lab File ID: c1645.d BFB Injection Date: 2-7-95

Instrument ID: MSC.i BFB Injection Time: 1207

GC Column: _____ ID: _____(mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	24.93
75	30.0 - 66.0% of mass 95	48.47
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	7.02
173	Less than 2.0% of mass 174	0.00 (0.00) 1
174	50.0 - 120.0% of mass 95	60.81
175	4.0 - 9.0 % of mass 174	4.99 (8.20) 1
176	93.0 - 101.0% of mass 174	59.74 (98.24) 1
177	5.0 - 9.0% of mass 176	3.44 (5.76) 2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CONTINUING CALIBRATION	VSTD50	c1646.d	2-7-95	1322
02	METHOD BLANK	~~BSN~~IV4210V	c1652.d	2-7-95	1722
03	METHOD SPIKE	NIV4210VS	c1653.d	2-7-95	1756
04					
05					
06					
07					
08					
09					
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11					
12					
13					
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15					
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18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ASC Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DWW-01

Lab File ID: c1704.d BFB Injection Date: 2-9-95

Instrument ID: ~~MSC.d~~ MSC.i BFB Injection Time: 1409

GC Column: _____ ID: _____(mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	26.59
75	30.0 - 66.0% of mass 95	51.72
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.43
173	Less than 2.0% of mass 174	0.21 (0.34) 1
174	50.0 - 120.0% of mass 95	62.85
175	4.0 - 9.0 % of mass 174	5.12 (8.15) 1
176	93.0 - 101.0% of mass 174	62.04 (98.71) 1
177	5.0 - 9.0% of mass 176	4.07 (6.56) 2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CONTINUING CALIBRATION	VSTD50	c1705.d	2-9-95	1443
02	CLJ-TB	JN755IV	c1718.d	2-9-95	2257
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ASC Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DWW-01

Lab File ID: c1741.d BFB Injection Date: 2-12-95

Instrument ID: MSC,1 BFB Injection Time: 1259

GC Column: _____ ID: _____(mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	24.73
75	30.0 - 66.0% of mass 95	52.07
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.46
173	Less than 2.0% of mass 174	0.00 (0.00) 1
174	50.0 - 120.0% of mass 95	63.44
175	4.0 - 9.0 % of mass 174	4.85 (7.64) 1
176	93.0 - 101.0% of mass 174	61.95 (97.65) 1
177	5.0 - 9.0% of mass 176	5.00 (8.08) 2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CONTINUING CALIBRATION	VSTD50	c1742.d	2-12-95	1329
02	CLJ-DWW-01	JN7550V	c1744.d	2-12-95	1449
03	CLJ-DWW-01MS	JN7550VS	c1745.d	2-12-95	AM 1525
04	CLJ-DWW-01MSD	JN7550VR	c1746.d	2-12-95	1600
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Report Date : 06-Feb-1995 07:48

OHM Analytical Division

INITIAL CALIBRATION DATA

Start Cal Date : 05-FEB-95 18:58
End Cal Date : 05-FEB-95 19:34
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem/msc.i/c020595c.b/020595ambic.m
Cal Date : 06-Feb-1995 07:10
Curve Type : Average

Calibration File Names:
Level 1: /chem/msc.i/c020595c.b/c1591.d
Level 2: /chem/msc.i/c020595c.b/c1592.d
Level 3: /chem/msc.i/c020595c.b/c1593.d
Level 4: /chem/msc.i/c020595c.b/c1594.d
Level 5: /chem/msc.i/c020595c.b/c1595.d

Compound	10 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	RRF	% RSD
1 Methyl chloride	0.83570	0.92775	0.88171	0.86972	0.93049	0.88907	4.530
2 Vinyl chloride	1.02728	1.28937	1.29597	1.24456	1.29170	1.22978	9.359
3 Methyl bromide	1.24245	1.40861	1.36348	1.29806	1.32487	1.32750	4.761
4 Chloroethane	0.73011	0.83791	0.76130	0.67513	0.70046	0.74098	8.510
5 Trichlorofluoromethane	2.66081	3.18281	3.21511	2.99309	2.57556	2.92548	10.070
6 Ethyl ether	0.91268	0.91246	1.00029	0.91101	0.91087	0.92946	4.261
7 Acrolein	0.16756	0.17027	0.21634	0.18867	0.19000	0.18657	10.482
8 1,1-Dichloroethylene	1.15378	1.29975	1.39050	1.32026	1.32909	1.29868	6.759
9 1,1,2-Trichlorotrifluoroethan	2.84246	3.14195	3.18601	2.95528	2.90053	3.00525	5.028
10 Acetone	0.48925	0.39119	0.68611	0.74292	0.34284	0.53046	33.413
11 Carbon disulfide	2.43506	2.95743	3.14935	3.12239	3.08397	2.94964	10.066
12 Methylene chloride	1.69639	1.52642	1.49357	1.40645	1.35251	1.49507	8.829
13 Acrylonitrile	0.28745	0.28261	0.33030	0.26493	0.32563	0.29818	9.556
14 1,2-Trans-dichloroethylene	1.26127	1.40388	1.44841	1.43553	1.39049	1.38792	5.371
15 Tert-Butyl Methyl Ether	3.01582	3.02799	3.22668	3.03210	2.90418	3.04135	3.823
16 1,1-Dichloroethane	2.78764	2.95855	3.02162	3.02846	2.85563	2.93038	3.608
17 1,2-cis-Dichloroethylene	1.35627	1.46882	1.43383	1.45375	1.41330	1.42519	3.076
18 Methyl ethyl ketone	0.03083	0.02700	0.03020	0.02838	0.02477	0.02824	8.708
19 Ethyl acetate	3.23083	2.99510	3.28800	3.12729	2.92698	3.11364	4.903
21 Chloroform	3.14364	3.42778	3.37063	3.39031	3.26031	3.31853	3.494
22 1,1,1-Trichloroethane	0.56030	0.64870	0.59807	0.60835	0.56712	0.59651	5.951
23 Carbon tetrachloride	0.49768	0.56222	0.54392	0.55202	0.52172	0.53551	4.831
25 Benzene	0.88538	0.94693	0.87308	0.86473	0.81233	0.87649	5.504
26 1,2-Dichloroethane	2.37595	2.55616	2.60647	2.44242	2.48265	2.49273	3.656
ichloroethylene	0.39282	0.42242	0.41060	0.38862	0.37630	0.39815	4.598
29 1,2-Dichloropropane	0.43646	0.45531	0.45581	0.43372	0.41906	0.44007	3.547
30 Dichlorobromomethane	0.60495	0.66437	0.71634	0.70617	0.68860	0.67609	6.565

OHM Analytical Division

INITIAL CALIBRATION DATA

Start Cal Date : 05-FEB-95 18:58
End Cal Date : 05-FEB-95 19:34
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem/msc.i/c020595c.b/020595ambic.m
Cal Date : 06-Feb-1995 07:10
Curve Type : Average

	Compound	10 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	RRF	% RSD
	31 2-Chloroethylvinyl ether	0.19630	0.19818	0.19792	0.10679	0.19572	0.17898	22.557
	32 cis-1,3-Dichloropropylene	0.52226	0.52637	0.56918	0.56783	0.52519	0.54217	4.444
	33 Methyl-iso-butyl ketone	0.61653	0.56691	0.65190	0.54874	0.51891	0.58060	9.188
	35 Toluene	0.79781	0.79607	0.81748	0.78597	0.73923	0.78731	3.709
	36 trans-1,3-Dichloropropylene	0.45294	0.44235	0.46964	0.49106	0.43087	0.45737	5.166
	37 1,1,2-Trichloroethane	0.34355	0.34160	0.34993	0.34888	0.30230	0.33725	5.885
	38 Tetrachloroethylene	0.49273	0.53203	0.49731	0.49182	0.46172	0.49512	5.048
	39 2-Hexanone	0.40050	0.35125	0.42057	0.37071	0.35204	0.37901	8.085
	40 Chlorodibromomethane	0.44987	0.48744	0.53513	0.57139	0.51902	0.51257	9.032
	41 Ethylene dibromide	0.74706	0.72616	0.77025	0.74423	0.67786	0.73311	4.724
	43 Chlorobenzene	1.04638	1.07234	1.02478	1.00463	0.95402	1.02043	4.395
	44 Ethylbenzene	0.46856	0.48702	0.46439	0.44748	0.43354	0.46020	4.452
	45 m-p-Xylenes	0.55264	0.59902	0.55622	0.54199	0.52429	0.55483	4.983
	46 o-Xylene	0.56838	0.59735	0.57537	0.52653	0.51753	0.55703	6.076
	47 Styrene	0.84087	0.90208	0.91904	0.87033	0.86666	0.87980	3.510
	48 Bromoform	0.30807	0.34578	0.40170	0.39976	0.37565	0.36619	10.813
	50 1,1,2,2-Tetrachloroethane	0.79219	0.76899	0.87599	0.75834	0.71514	0.78213	7.601
	51 1,3-Dichlorobenzene	0.89603	0.90389	0.88752	0.81577	0.76176	0.85299	7.261
	52 1,4-Dichlorobenzene	1.06283	1.02269	1.03536	0.97058	0.89413	0.99711	6.680
	53 1,2-Dichlorobenzene	0.97357	0.96758	0.92796	0.86185	0.80123	0.90644	8.138
S	24 1,2-Dichloroethane-D4 (SURR)	1.99164	2.12701	2.08539	2.02198	2.14491	2.07419	3.185
S	34 Toluene-D8 (SURR)	1.16378	1.13781	1.19680	1.14931	1.08553	1.14665	3.550
S	49 Bromofluorobenzene (SURR)	1.11967	1.01257	1.05416	0.95900	0.92932	1.01494	7.467

Data File: /chem/msc.i/c020795a.b/c1646.d
Report Date: 07-Feb-1995 13:59

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msc.i
Lab File ID: c1646.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 07-FEB-95 13:22
Init. Calibration Date(s): 02/05/95 02/05/95
Init. Calibration Times: 18:58 19:34
Method File: /chem/msc.i/c020795a.b/020595ambic.m

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D	
	1 Methyl chloride	0.889	0.969	0.300	9.0	40.0	
	2 Vinyl chloride	1.230	1.272	0.010	3.5	25.0	
	3 Methyl bromide	1.327	1.301	0.010	2.0	40.0	
	4 Chloroethane	0.741	0.778	0.010	5.0	40.0	
	5 Trichlorofluoromethane	2.925	3.180	0.010	8.7	40.0	
	6 Ethyl ether	0.929	0.885	0.010	4.7	40.0	
	7 Acrolein	0.187	0.166	0.010	10.9	40.0	
	8 1,1-Dichloroethylene	1.299	1.332	0.010	2.5	25.0	
	9 1,1,2-Trichlorotrifluoroetha	3.005	3.191	0.010	6.2	40.0	
	10 Acetone	0.530	0.317	0.010	40.2	40.0	<-
	11 Carbon disulfide	2.950	2.951	0.010	0.1	40.0	
	12 Methylene chloride	1.495	1.422	0.010	4.9	40.0	
	13 Acrylonitrile	0.298	0.238	0.010	20.2	40.0	
	14 1,2-Trans-dichloroethylene	1.388	1.425	0.010	2.7	40.0	
	15 Tert-Butyl Methyl Ether	3.041	2.850	0.010	6.3	40.0	
	16 1,1-Dichloroethane	2.930	2.934	0.300	0.1	40.0	
	17 1,2-cis-Dichloroethylene	1.425	1.449	0.010	1.7	40.0	
	18 Methyl ethyl ketone	0.028	0.026	0.010	6.6	40.0	
	19 Ethyl acetate	3.114	2.653	0.010	14.8	40.0	
	21 Chloroform	3.319	3.400	0.010	2.5	25.0	
	22 1,1,1-Trichloroethane	0.597	0.674	0.010	13.1	40.0	
	23 Carbon tetrachloride	0.536	0.594	0.010	10.9	40.0	
S	24 1,2-Dichloroethane-D4 (SURR)	2.074	2.033	0.010	2.0	40.0	
	25 Benzene	0.876	0.933	0.010	6.4	40.0	
	26 1,2-Dichloroethane	2.493	2.459	0.010	1.4	40.0	
	28 Trichloroethylene	0.398	0.428	0.010	7.6	40.0	
	29 1,2-Dichloropropane	0.440	0.440	0.010	0.1	25.0	
	30 Dichlorobromomethane	0.676	0.760	0.010	12.5	40.0	
	31 2-Chloroethylvinyl ether	0.179	0.208	0.010	16.2	40.0	
	32 cis-1,3-Dichloropropylene	0.542	0.563	0.010	3.8	40.0	
	33 Methyl-iso-butyl ketone	0.581	0.500	0.010	13.9	40.0	
S	34 Toluene-D8 (SURR)	1.147	1.153	0.010	0.5	40.0	
	35 Toluene	0.787	0.833	0.010	5.9	25.0	
	36 trans-1,3-Dichloropropylene	0.457	0.485	0.010	6.1	40.0	
	37 1,1,2-Trichloroethane	0.337	0.356	0.010	5.5	40.0	
	38 Tetrachloroethylene	0.495	0.540	0.010	9.1	40.0	
	39 2-Hexanone	0.379	0.327	0.010	13.6	40.0	
	40 Chlorodibromomethane	0.513	0.595	0.010	16.1	40.0	
	41 Ethylene dibromide	0.733	0.767	0.010	4.6	40.0	
	43 Chlorobenzene	1.020	1.068	0.300	4.6	40.0	

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msc.i
Lab File ID: c1646.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 07-FEB-95 13:22
Init. Calibration Date(s): 02/05/95 02/05/95
Init. Calibration Times: 18:58 19:34
Method File: /chem/msc.i/c020795a.b/020595ambic.m

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
	44 Ethylbenzene	0.460	0.483	0.010	4.9	25.0
	45 m+p-Xylenes	0.555	0.593	0.010	6.9	40.0
	46 o-Xylene	0.557	0.594	0.010	6.6	40.0
	47 Styrene	0.880	0.932	0.010	6.0	40.0
	48 Bromoform	0.366	0.401	0.300	9.5	40.0
$	49 Bromofluorobenzene (SURR)	1.015	0.999	0.010	1.6	40.0
	50 1,1,2,2-Tetrachloroethane	0.782	0.765	0.300	2.2	40.0
	51 1,3-Dichlorobenzene	0.853	0.927	0.010	8.7	40.0
	52 1,4-Dichlorobenzene	0.997	1.104	0.010	10.7	40.0
	53 1,2-Dichlorobenzene	0.906	0.979	0.010	8.0	40.0

Data File: /chem/msc.i/c020995c.b/c1705.d
Report Date: 10-Feb-1995 07:45

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msc.i
Lab File ID: c1705.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 09-FEB-95 14:43
Init. Calibration Date(s): 02/05/95 02/05/95
Init. Calibration Times: 18:58 19:34
Method File: /chem/msc.i/c020995c.b/020595ambic.m

				MIN		MAX
	COMPOUND	RRF	RF50	RRF	%D	%D
	1 Methyl chloride	0.889	0.876	0.300	1.5	40.0
	2 Vinyl chloride	1.230	1.159	0.010	5.7	25.0
	3 Methyl bromide	1.327	1.284	0.010	3.2	40.0
	4 Chloroethane	0.741	0.736	0.010	0.7	40.0
	5 Trichlorofluoromethane	2.925	3.075	0.010	5.1	40.0
	6 Ethyl ether	0.929	0.859	0.010	7.6	40.0
	7 Acrolein	0.187	0.157	0.010	16.0	40.0
	8 1,1-Dichloroethylene	1.299	1.309	0.010	0.8	25.0
	9 1,1,2-Trichlorotrifluoroetha	3.005	3.077	0.010	2.4	40.0
	10 Acetone	0.530	0.407	0.010	23.2	40.0
	11 Carbon disulfide	2.950	2.538	0.010	13.9	40.0
	12 Methylene chloride	1.495	1.404	0.010	6.1	40.0
	13 Acrylonitrile	0.298	0.248	0.010	16.7	40.0
	14 1,2-Trans-dichloroethylene	1.388	1.388	0.010	0.0	40.0
	15 Tert-Butyl Methyl Ether	3.041	2.855	0.010	6.1	40.0
	16 1,1-Dichloroethane	2.930	2.835	0.300	3.3	40.0
	17 1,2-cis-Dichloroethylene	1.425	1.453	0.010	2.0	40.0
	18 Methyl ethyl ketone	0.028	0.028	0.010	1.8	40.0
	19 Ethyl acetate	3.114	2.840	0.010	8.8	40.0
	21 Chloroform	3.319	3.377	0.010	1.8	25.0
	22 1,1,1-Trichloroethane	0.597	0.670	0.010	12.3	40.0
	23 Carbon tetrachloride	0.536	0.598	0.010	11.7	40.0
S	24 1,2-Dichloroethane-D4 (SURR)	2.074	1.999	0.010	3.6	40.0
	25 Benzene	0.876	0.907	0.010	3.5	40.0
	26 1,2-Dichloroethane	2.493	2.530	0.010	1.5	40.0
	28 Trichloroethylene	0.398	0.434	0.010	9.0	40.0
	29 1,2-Dichloropropane	0.440	0.433	0.010	1.6	25.0
	30 Dichlorobromomethane	0.676	0.739	0.010	9.3	40.0
	31 2-Chloroethylvinyl ether	0.179	0.205	0.010	14.6	40.0
	32 cis-1,3-Dichloropropylene	0.542	0.538	0.010	0.8	40.0
	33 Methyl-iso-butyl ketone	0.581	0.525	0.010	9.5	40.0
S	34 Toluene-D8 (SURR)	1.147	1.170	0.010	2.0	40.0
	35 Toluene	0.787	0.844	0.010	7.2	25.0
	36 trans-1,3-Dichloropropylene	0.457	0.462	0.010	1.0	40.0
	37 1,1,2-Trichloroethane	0.337	0.357	0.010	5.7	40.0
	38 Tetrachloroethylene	0.495	0.549	0.010	10.8	40.0
	39 2-Hexanone	0.379	0.354	0.010	6.7	40.0
	40 Chlorodibromomethane	0.513	0.584	0.010	13.9	40.0
	41 Ethylene dibromide	0.733	0.782	0.010	6.7	40.0
	43 Chlorobenzene	1.020	1.114	0.300	9.2	40.0

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msc.i
Lab File ID: c1705.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 09-FEB-95 14:43
Init. Calibration Date(s): 02/05/95 02/05/95
Init. Calibration Times: 18:58 19:34
Method File: /chem/msc.i/c020995c.b/020595ambic.m

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
	44 Ethylbenzene	0.460	0.493	0.010	7.1	25.0
	45 m+p-Xylenes	0.555	0.598	0.010	7.7	40.0
	46 o-Xylene	0.557	0.614	0.010	10.2	40.0
	47 Styrene	0.880	0.955	0.010	8.5	40.0
	48 Bromoform	0.366	0.393	0.300	7.4	40.0
S	49 Bromofluorobenzene (SURR)	1.015	1.002	0.010	1.3	40.0
	50 1,1,2,2-Tetrachloroethane	0.782	0.811	0.300	3.7	40.0
	51 1,3-Dichlorobenzene	0.853	0.950	0.010	11.3	40.0
	52 1,4-Dichlorobenzene	0.997	1.126	0.010	12.9	40.0
	53 1,2-Dichlorobenzene	0.906	1.019	0.010	12.4	40.0

Data File: /chem/msc.i/c021295.b/c1742.d
Report Date: 12-Feb-1995 14:21

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msc.i
Lab File ID: c1742.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 12-FEB-95 13:29
Init. Calibration Date(s): 02/05/95 02/05/95
Init. Calibration Times: 18:58 19:34
Method File: /chem/msc.i/c021295.b/020595ambic.m

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
	1 Methyl chloride	0.889	0.856	0.300	3.7	40.0
	2 Vinyl chloride	1.230	1.259	0.010	2.3	25.0
	3 Methyl bromide	1.327	1.253	0.010	5.6	40.0
	4 Chloroethane	0.741	0.738	0.010	0.5	40.0
	5 Trichlorofluoromethane	2.925	2.973	0.010	1.6	40.0
	6 Ethyl ether	0.929	0.957	0.010	3.0	40.0
	7 Acrolein	0.187	0.200	0.010	7.3	40.0
	8 1,1-Dichloroethylene	1.299	1.320	0.010	1.6	25.0
	9 1,1,2-Trichlorotrifluoroetha	3.005	3.118	0.010	3.7	40.0
	10 Acetone	0.530	0.400	0.010	24.6	40.0
	11 Carbon disulfide	2.950	3.664	0.010	24.2	40.0
	12 Methylene chloride	1.495	1.471	0.010	1.6	40.0
	13 Acrylonitrile	0.298	0.322	0.010	7.9	40.0
	14 1,2-Trans-dichloroethylene	1.388	1.410	0.010	1.6	40.0
	15 Tert-Butyl Methyl Ether	3.041	3.070	0.010	0.9	40.0
	16 1,1-Dichloroethane	2.930	2.985	0.300	1.9	40.0
	17 1,2-cis-Dichloroethylene	1.425	1.427	0.010	0.1	40.0
	18 Methyl ethyl ketone	0.028	0.031	0.010	9.4	40.0
	19 Ethyl acetate	3.114	3.226	0.010	3.6	40.0
	21 Chloroform	3.319	3.318	0.010	0.0	25.0
	22 1,1,1-Trichloroethane	0.597	0.650	0.010	9.0	40.0
	23 Carbon tetrachloride	0.536	0.587	0.010	9.5	40.0
S	24 1,2-Dichloroethane-D4 (SURR)	2.074	1.951	0.010	5.9	40.0
	25 Benzene	0.876	0.909	0.010	3.7	40.0
	26 1,2-Dichloroethane	2.493	2.430	0.010	2.5	40.0
	28 Trichloroethylene	0.398	0.428	0.010	7.5	40.0
	29 1,2-Dichloropropane	0.440	0.466	0.010	5.8	25.0
	30 Dichlorobromomethane	0.676	0.758	0.010	12.1	40.0
	31 2-Chloroethylvinyl ether	0.179	0.228	0.010	27.2	40.0
	32 cis-1,3-Dichloropropylene	0.542	0.585	0.010	8.0	40.0
	33 Methyl-iso-butyl ketone	0.581	0.624	0.010	7.4	40.0
S	34 Toluene-D8 (SURR)	1.147	1.221	0.010	6.5	40.0
	35 Toluene	0.787	0.871	0.010	10.7	25.0
	36 trans-1,3-Dichloropropylene	0.457	0.525	0.010	14.8	40.0
	37 1,1,2-Trichloroethane	0.337	0.381	0.010	13.0	40.0
	38 Tetrachloroethylene	0.495	0.546	0.010	10.3	40.0
	39 2-Hexanone	0.379	0.422	0.010	11.2	40.0
	40 Chlorodibromomethane	0.513	0.616	0.010	20.2	40.0
	41 Ethylene dibromide	0.733	0.831	0.010	13.4	40.0
	43 Chlorobenzene	1.020	1.100	0.300	7.8	40.0

Data File: /chem/msc.i/c021295.b/c1742.d
Report Date: 12-Feb-1995 14:21

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msc.i
Lab File ID: c1742.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 12-FEB-95 13:29
Init. Calibration Date(s): 02/05/95 02/05/95
Init. Calibration Times: 18:58 19:34
Method File: /chem/msc.i/c021295.b/020595ambic.m

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
	44 Ethylbenzene	0.460	0.475	0.010	3.2	25.0
	45 m+p-Xylenes	0.555	0.587	0.010	5.8	40.0
	46 o-Xylene	0.557	0.602	0.010	8.1	40.0
	47 Styrene	0.880	0.958	0.010	8.9	40.0
	48 Bromoform	0.366	0.443	0.300	21.0	40.0
$	49 Bromofluorobenzene (SURR)	1.015	1.048	0.010	3.2	40.0
	50 1,1,2,2-Tetrachloroethane	0.782	0.882	0.300	12.7	40.0
	51 1,3-Dichlorobenzene	0.853	0.962	0.010	12.8	40.0
	52 1,4-Dichlorobenzene	0.997	1.158	0.010	16.2	40.0
	53 1,2-Dichlorobenzene	0.906	1.029	0.010	13.5	40.0

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ASC Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DWW-01

Lab File ID (Standard): c1646.d Date Analyzed: 2-7-95

Instrument ID: MSC.i Time Analyzed: 1322

GC Column: _____ ID: _____(mm) Heated Purge: (Y/N) ___

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	209196	9.26	837935	11.21	633032	17.14
	UPPER LIMIT	418392	9.76	1675870	11.71	1266064	17.91
	LOWER LIMIT	104598	8.76	418968	10.71	316516	16.91
	EPA SAMPLE NO.						
01	METHOD BLANK	192521	9.24	740390	11.19	533581	17.40
02	METHOD SPIKE	202376	9.26	844625	11.20	601651	17.41
03							
04							
05							
06							
07							
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14							
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17							
18							
19							
20							
21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

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

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

page ___ of ___

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ASC Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DWW-01

Lab File ID (Standard): c1705.d Date Analyzed: 2-9-95

Instrument ID: MSC.i Time Analyzed: 1443

GC Column: _____ ID: _____(mm) Heated Purge: (Y/N) Y

	IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
12 HOUR STD	196089	9.27	784361	11.21	571719	17.42
UPPER LIMIT	392178	9.77	1568722	11.71	1143438	17.92
LOWER LIMIT	98044	8.77	392180	10.71	285860	16.92
EPA SAMPLE NO.						
01 CLJ-TB	202999	9.29	803777	11.23	570380	17.42
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

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

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

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ASC Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DWW-01

Lab File ID (Standard): c1742.d Date Analyzed: 2-12-95

Instrument ID: MSC.i Time Analyzed: 1329

GC Column: _____ ID: _____(mm) Heated Purge: (Y/N) Y

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	203108	9.24	804715	11.18	592614	17.39
	UPPER LIMIT	406216	9.74	1609430	11.68	1185228	17.89
	LOWER LIMIT	101554	8.74	402358	10.68	296307	16.89
	EPA SAMPLE NO.						
01	CLJ-DWW-01	203064	9.24	813583	11.19	597063	17.39
02	CLJ-DWW-01MS	201184	9.23	784889	11.18	569921	17.40
03	CLJ-DWW-01MSD	170164	9.23	1662661	11.17	472812	17.39
04							
05							
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20							
21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

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

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

0042 EPA SAMPLE NO.

VBLK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DWW-01

Matrix: (soil/water) WATER Lab Sample ID: N1V4210V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: C1652

Level: (low/med) LOW Date Received: N/A

% Moisture: not dec. Date Analyzed: 02/07/95

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl Chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	2	J
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-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	2	J
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	Methyl-iso-butyl ketone	10	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethylene	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	1	J
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	3	J
156-60-5	1,2-Trans-dichloroethylene	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0043 EPA SAMPLE NO.

VBLK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: _____ Case No.: 15226N SAS No.: _____ SDG No.: CLJ-DWW-01

Matrix: (soil/water) WATER Lab Sample ID: N1V4210V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: C1652

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

% Moisture: not dec. _____ Date Analyzed: 02/07/95

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

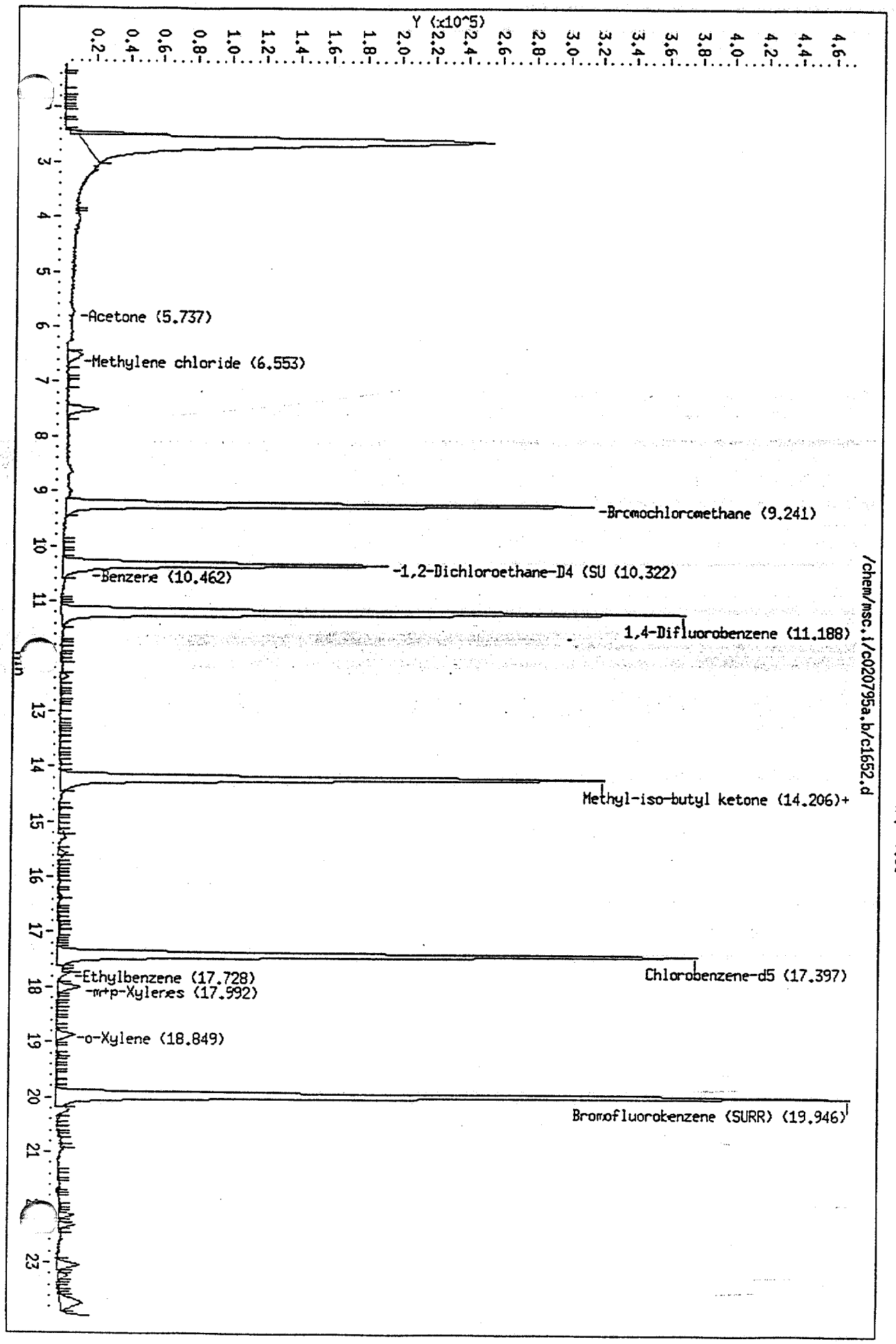
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: /chem/msc.i/c020795a.b/c1652.d
Date : 07-FEB-95 17:22
Client ID: met blank
Sample Info: met blank
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i
Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c020795a.b/c1652.d
Report Date: 18-Feb-1995 15:33

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msc.i/c020795a.b/c1652.d
Lab Smp Id:
Client Smp ID: met blank
Inj Date : 07-FEB-95 17:22
Operator : jk
Inst ID: msc.i
Smp Info : met blank
Misc Info : n1v4210v,n1v4210,1:m2,5.00,5.00:1
Comment :
Method : /chem/msc.i/c020795a.b/020595ambic.m
Meth Date : 18-Feb-1995 15:31 jeff
Quant Type: ISTD
Cal Date : 07-FEB-95 13:22
Cal File: c1646.d
Als bottle: 7
Dil Factor: 1.000
Integrator: HP RTE
Compound Sublist: tcl.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS		RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	Acetone	43.00	-	5.737	5.774	(0.621)	2898	2.37	2.37(a)
	12 Methylene chloride	84.00	-	6.553	6.543	(0.709)	14049	2.57	2.57(aQ)
	25 Benzene	78.00	_	10.462	10.467	(0.935)	20684	1.50	1.50(a)
*	27 1,4-Difluorobenzene	114.00		11.188	11.210	(1.000)	740390	50.0	
*	20 Bromochloromethane	128.00		9.241	9.260	(1.000)	192521	50.0	
	33 Methyl-iso-butyl ketone	43.00		14.197	13.961	(0.816)	6701	1.26	~~1.26(Q)~~ RT, MS
$	34 Toluene-D8 (SURR)	98.00		14.206	14.217	(0.817)	589991	48.0	48.0
*	42 Chlorobenzene-d5	117.00		17.397	17.407	(1.000)	533581	50.0	
	44 Ethylbenzene	106.00	-	17.728	17.730	(1.019)	3074	0.596	~~0.596(Q)~~ 1.03 gaic 2.18.95
	45 m+p-Xylenes	106.00	_	18.000	17.995	(1.035)	12902	2.04	2.04(a)
	46 o-Xylene	106.00	_	18.849	18.854	(1.083)	3877	0.612	0.612(aQ)
$	49 Bromofluorobenzene (SURR)	95.00		19.946	19.946	(1.147)	526575	49.4	49.4
$	24 1,2-Dichloroethane-D4 (SURR)	65.00		10.322	10.334	(1.117)	368235	47.0	47.0

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: /chem/msc.i/c020795a.b/c1652.d

Date : 07-FEB-95 17:22

Client ID: met blank

Instrument: msc.i

Sample Info: met blank

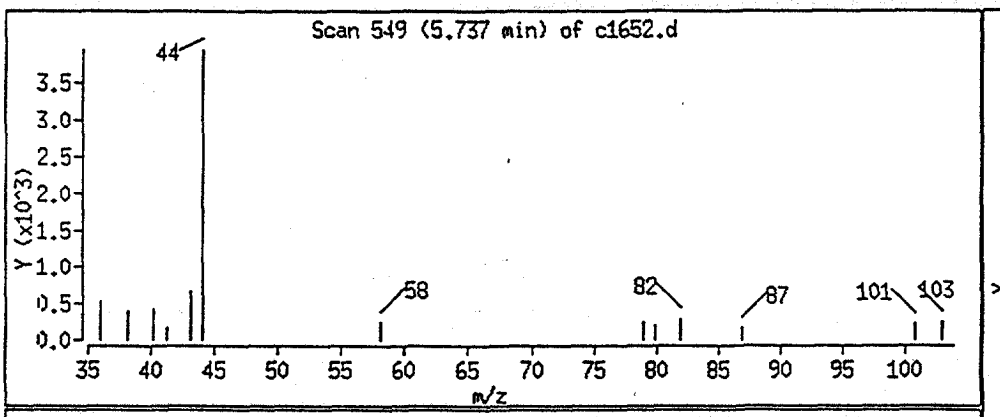
Purge Volume: 1.0

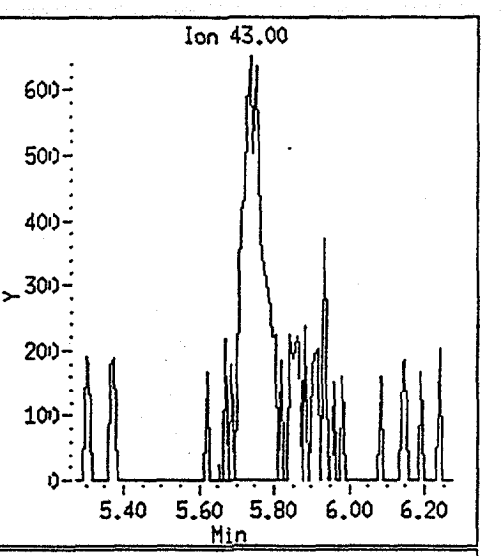
Operator: jk

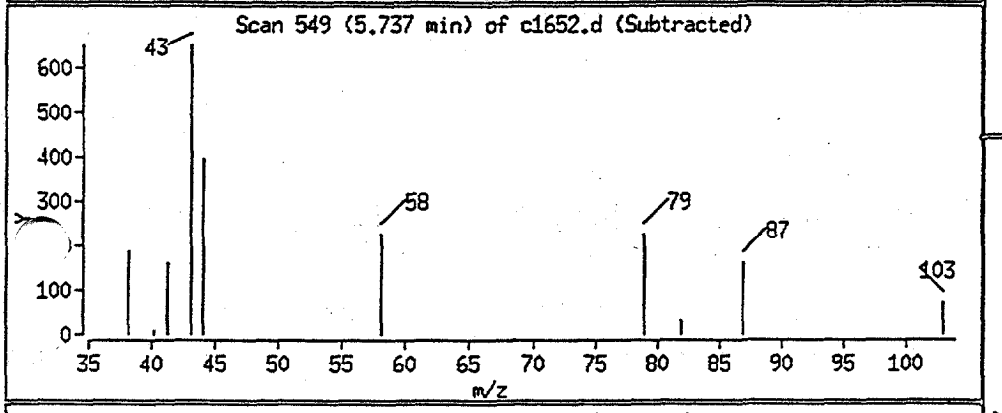
Column phase: J&W DB_624

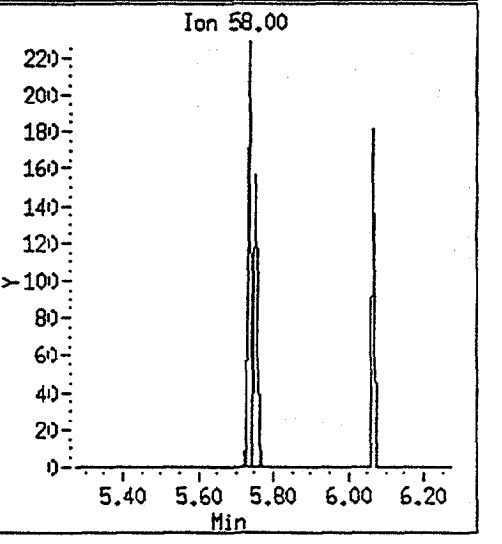
Column diameter: 0.53

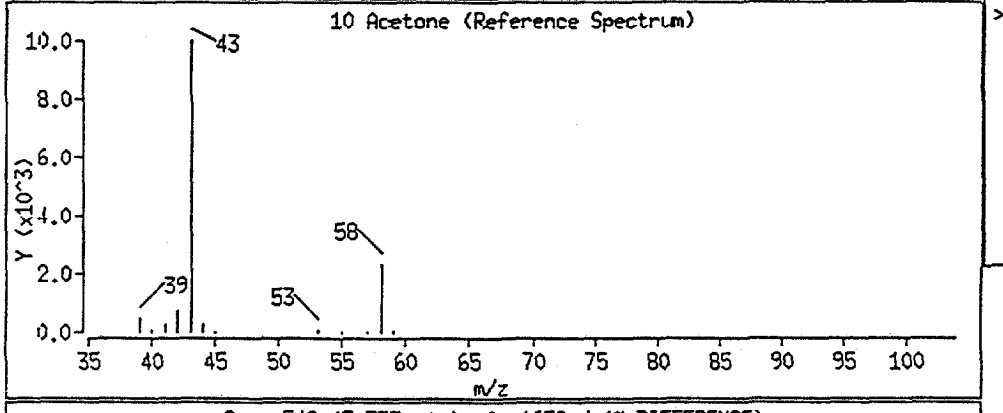
10 Acetone

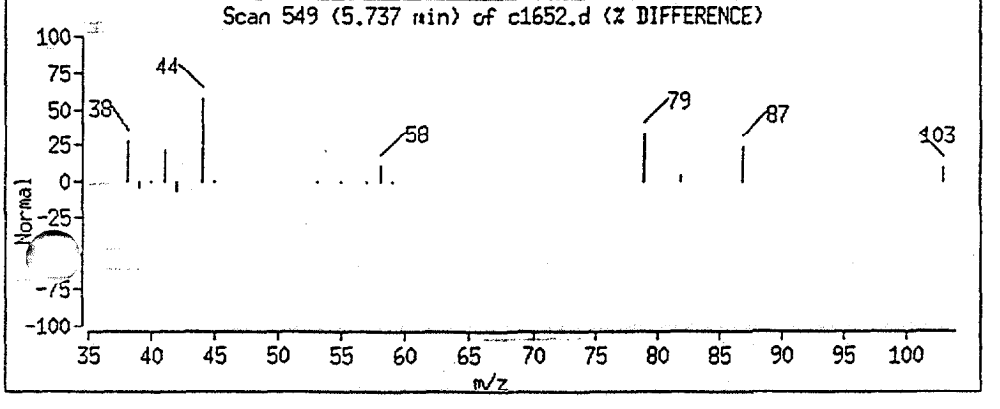












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Date : 07-FEB-95 17:22

Client ID: met blank

Instrument: msc.i

Sample Info: met blank

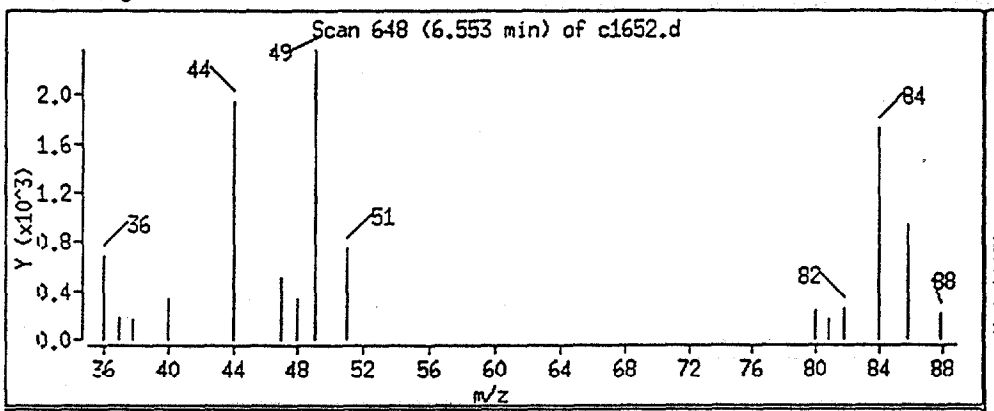
Purge Volume: 1.0

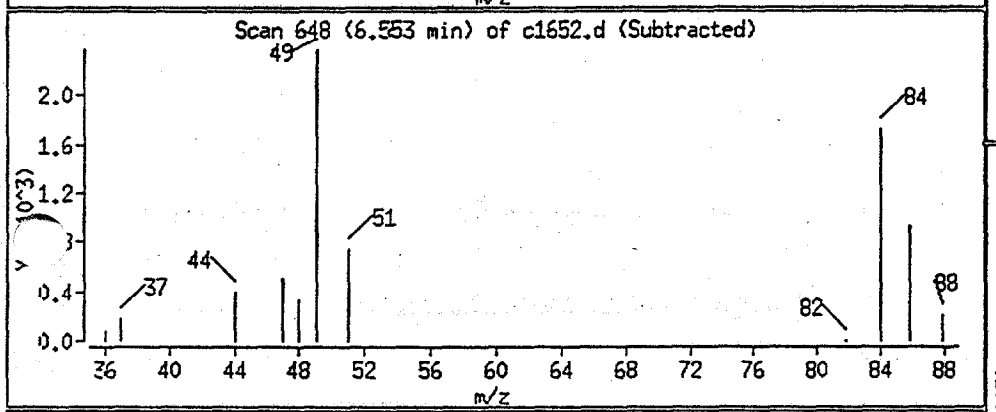
Operator: jk

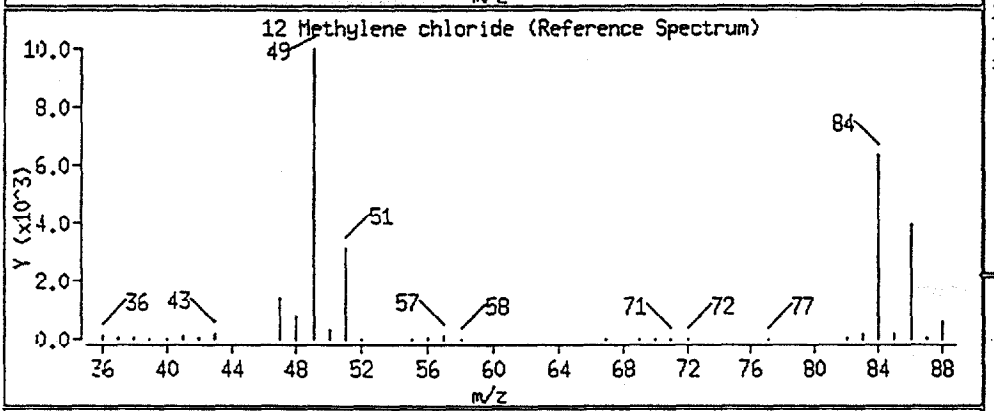
Column phase: J&W DB_624

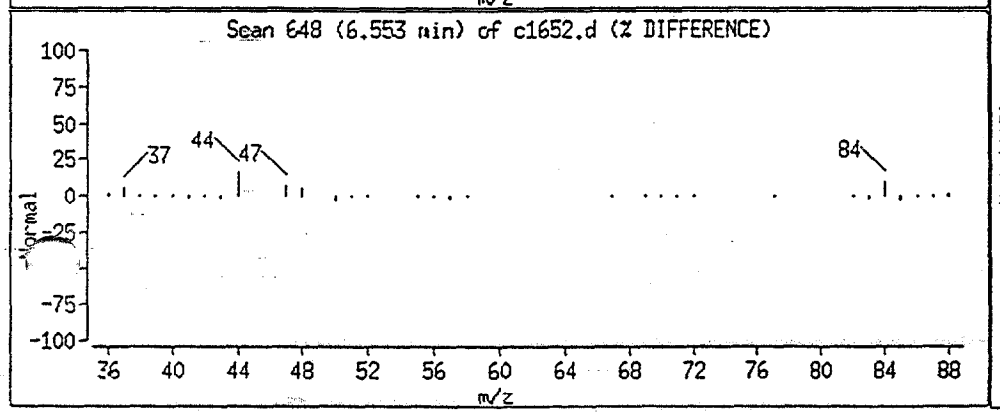
Column diameter: 0.53

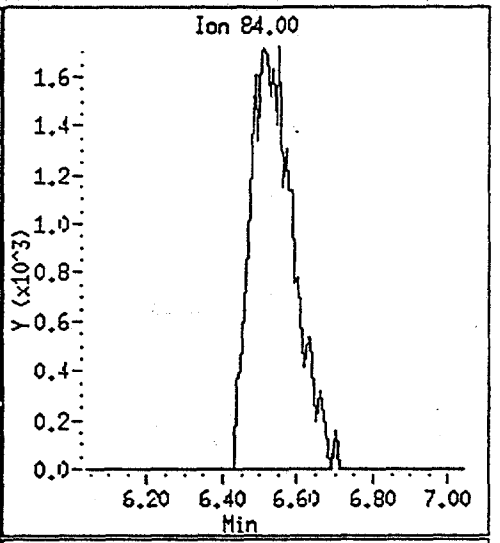
12 Methylene chloride

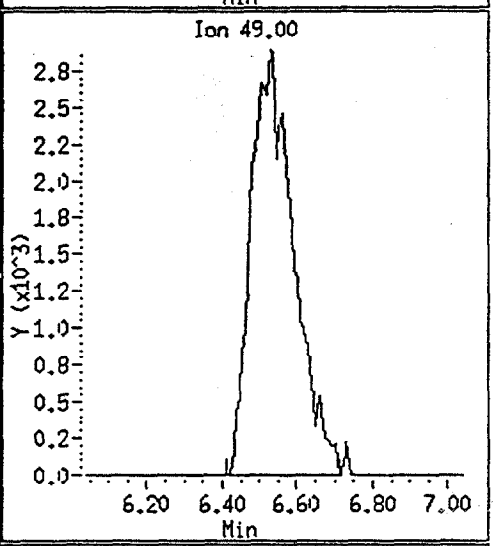


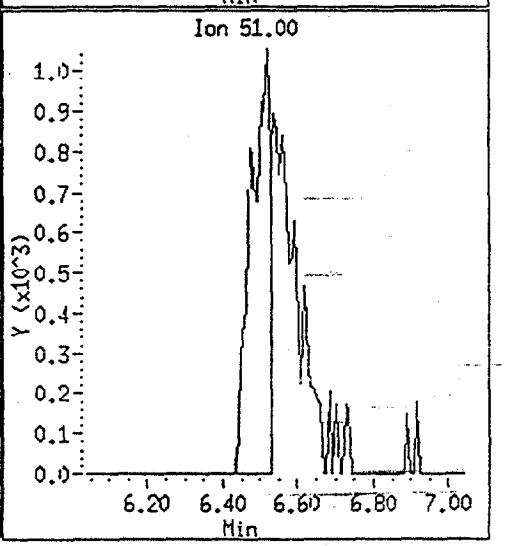












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Date : 07-FEB-95 17:22

Client ID: met blank

Instrument: msc.i

Sample Info: met blank

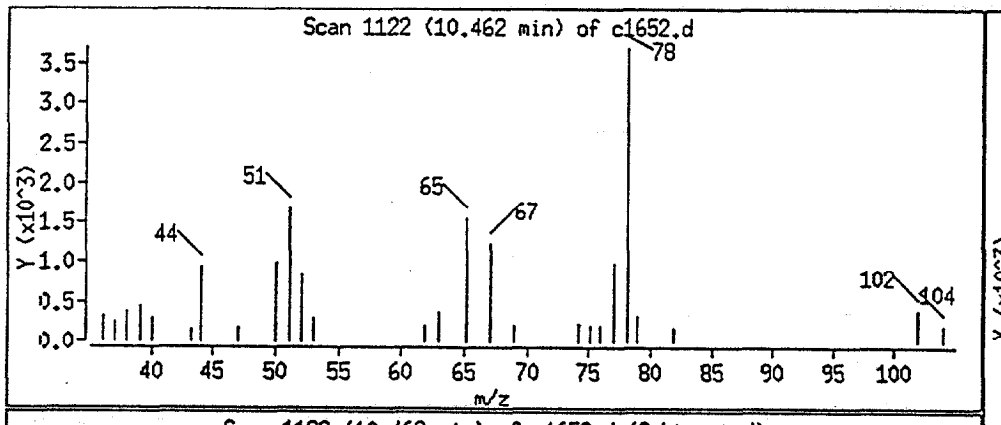
Purge Volume: 1.0

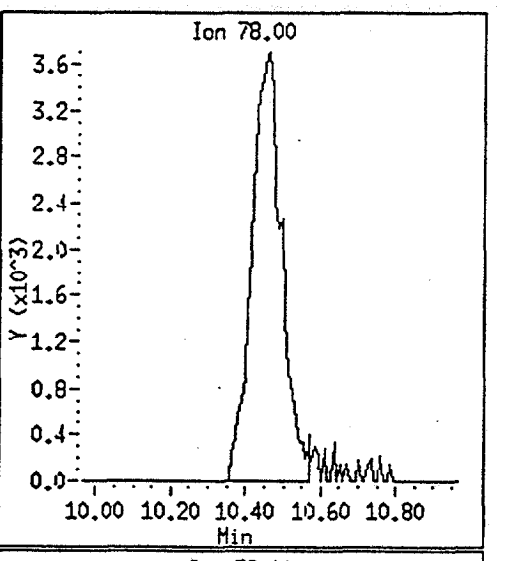
Operator: jk

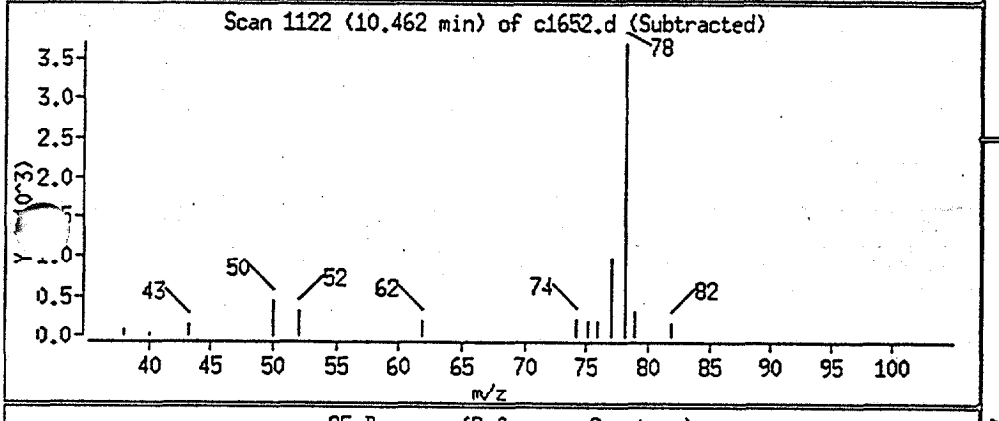
Column phase: J&W DB_624

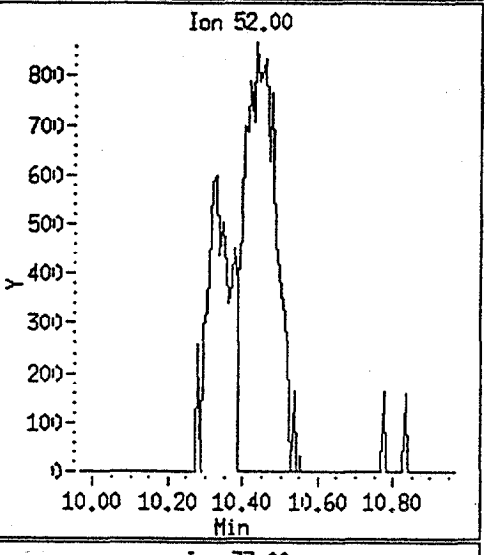
Column diameter: 0.53

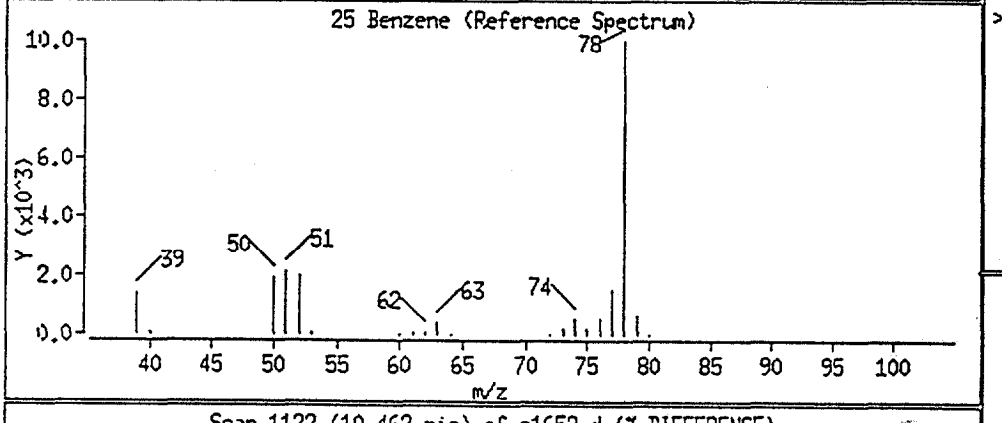
25 Benzene

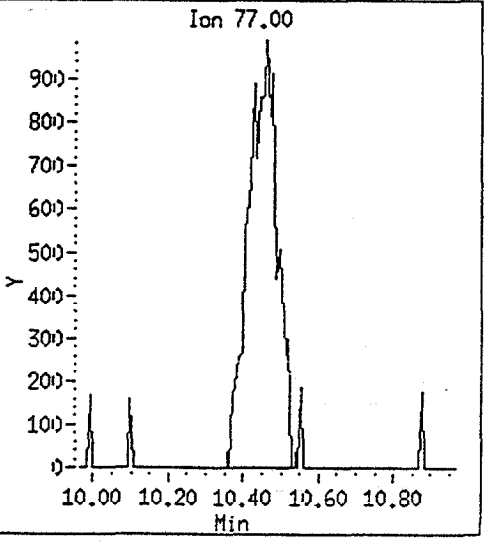


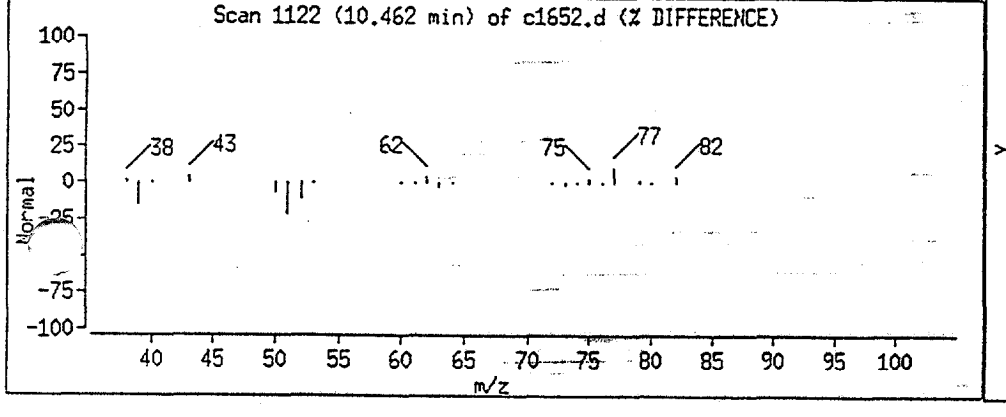












Data File: /chem/msc.i/c020795a.b/c1652.d

Date : 07-FEB-95 17:22

Client ID: met blank

Instrument: msc.i

Sample Info: met blank

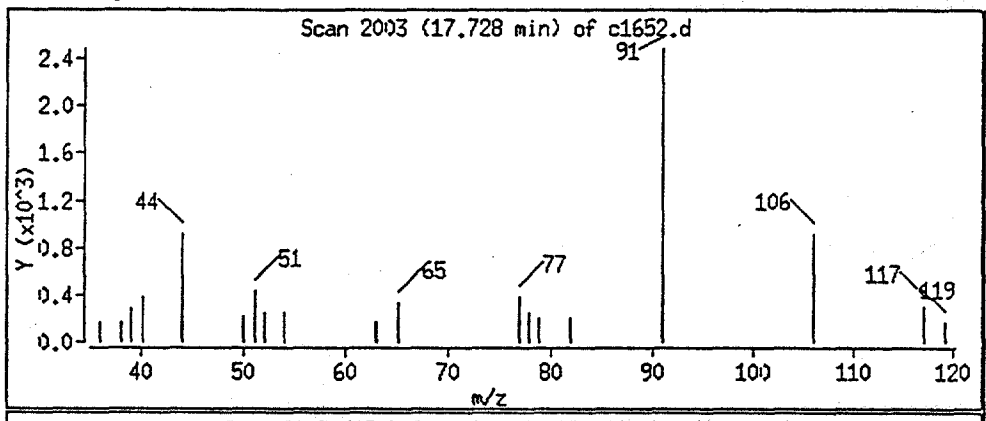
Purge Volume: 1.0

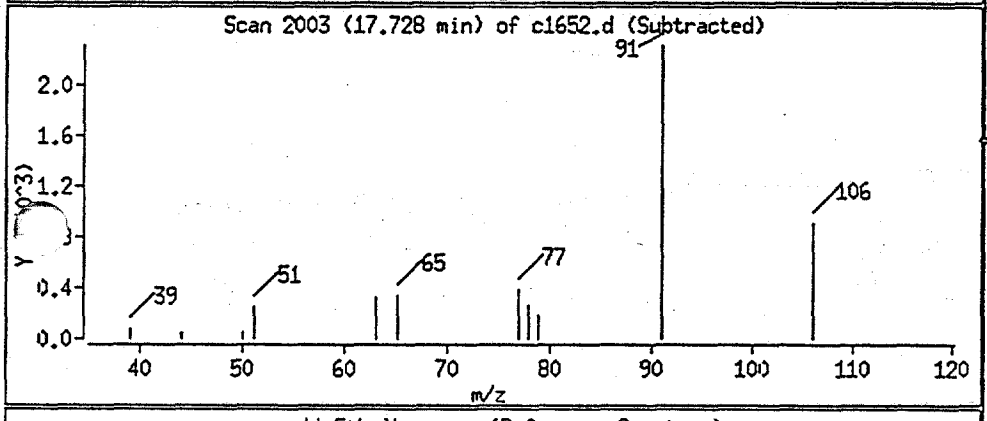
Operator: jk

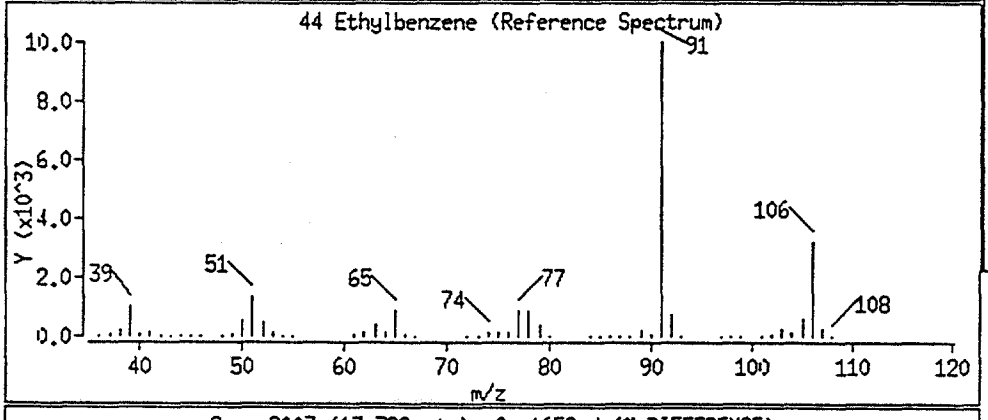
Column phase: J&W DB_624

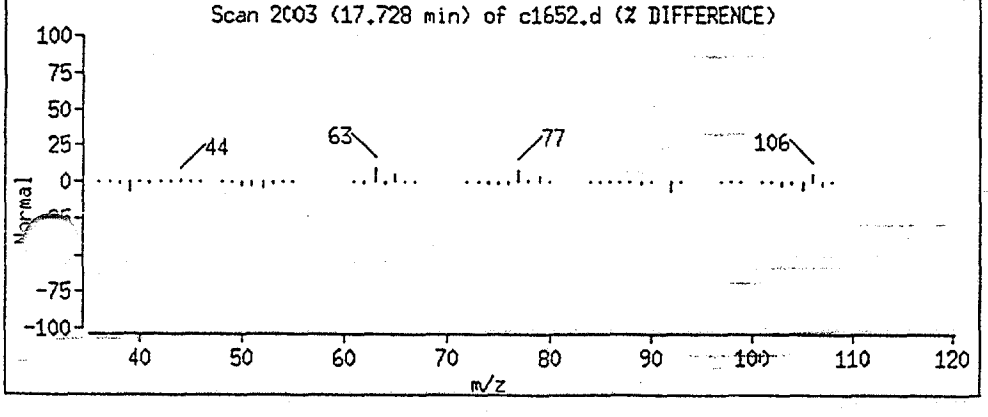
Column diameter: 0.53

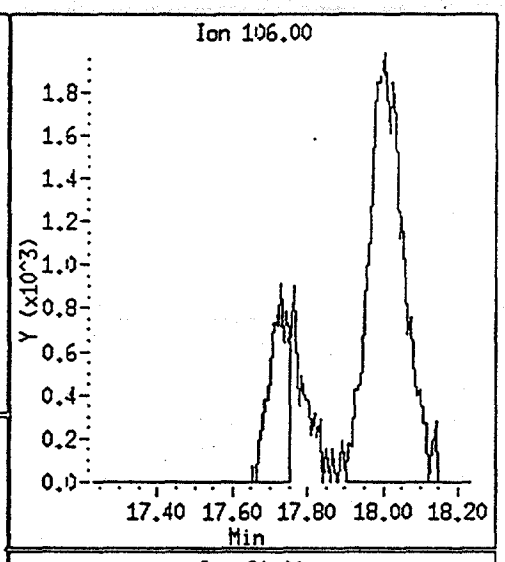
44 Ethylbenzene

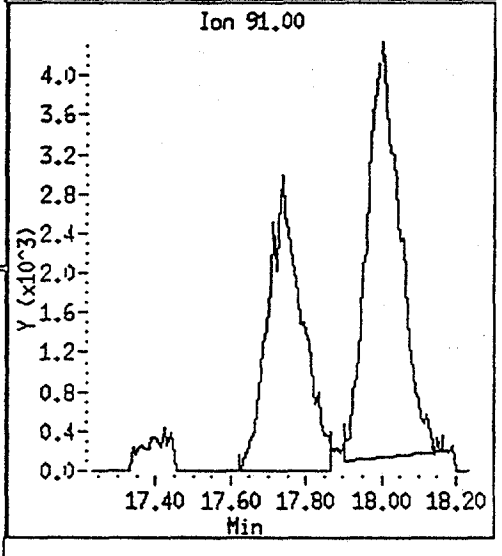












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Client ID: met blank

Instrument: msc.i

Sample Info: met blank

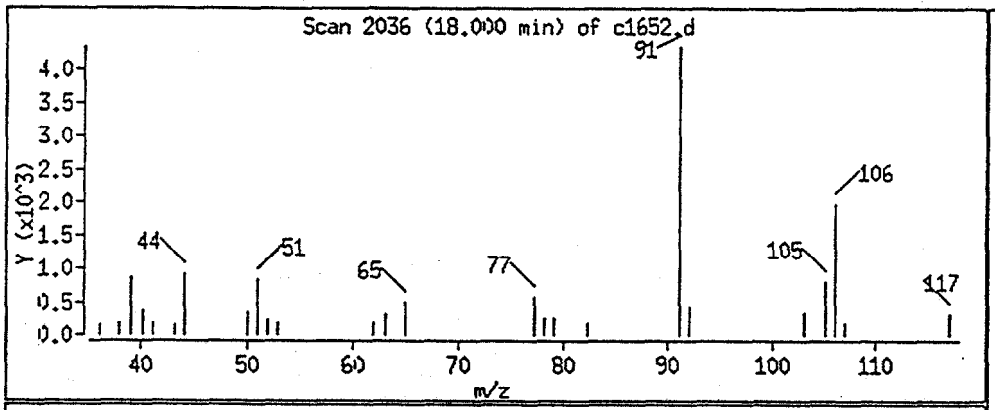
Purge Volume: 1.0

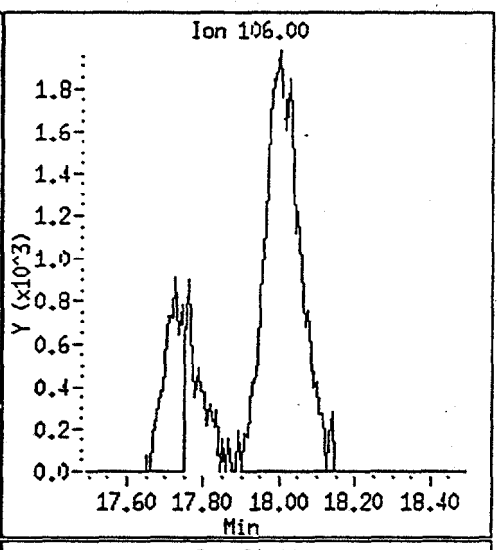
Operator: jk

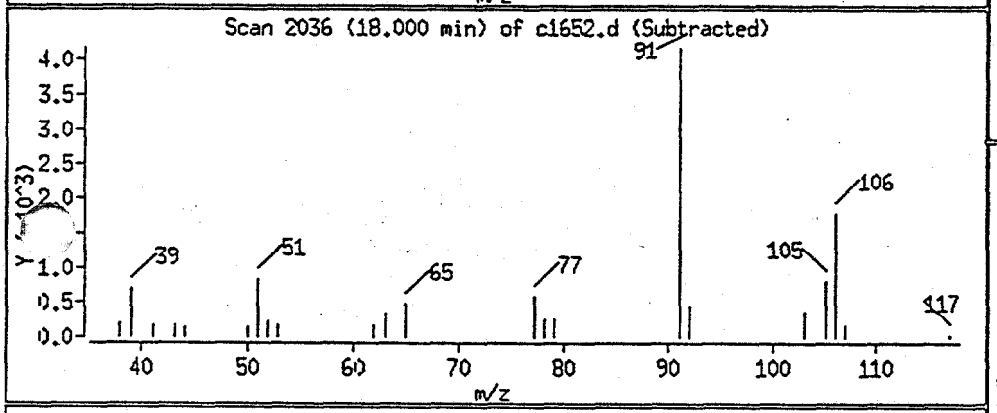
Column phase: J&W DB_624

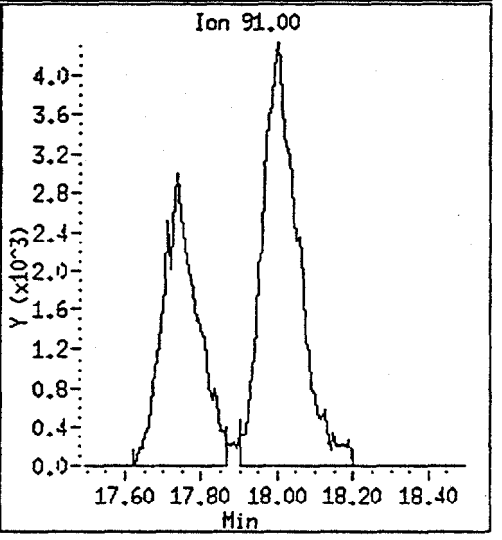
Column diameter: 0.53

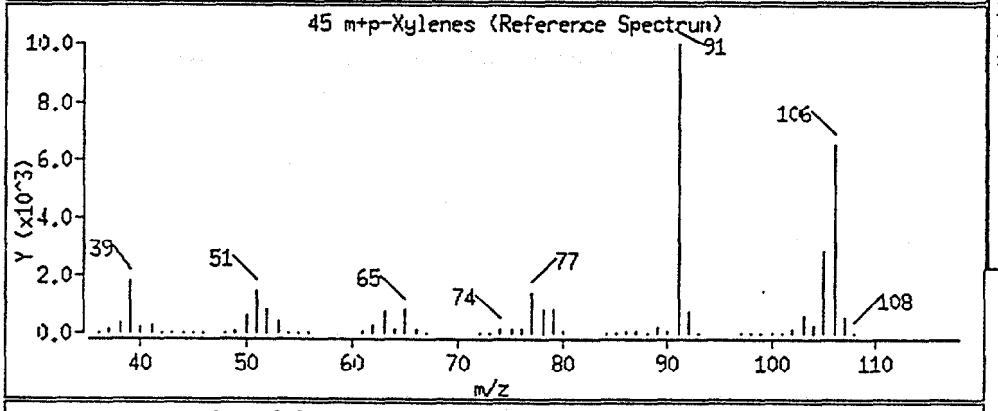
45 m+p-Xylenes

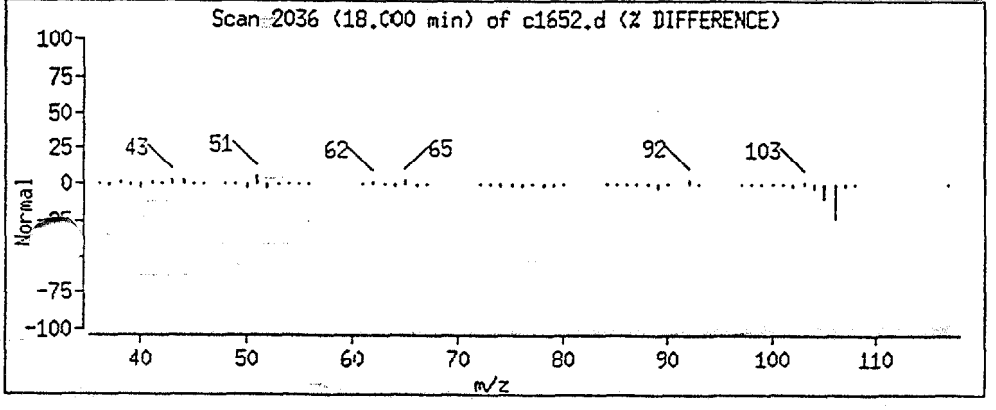












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Client ID: met blank

Instrument: msc.i

Sample Info: met blank

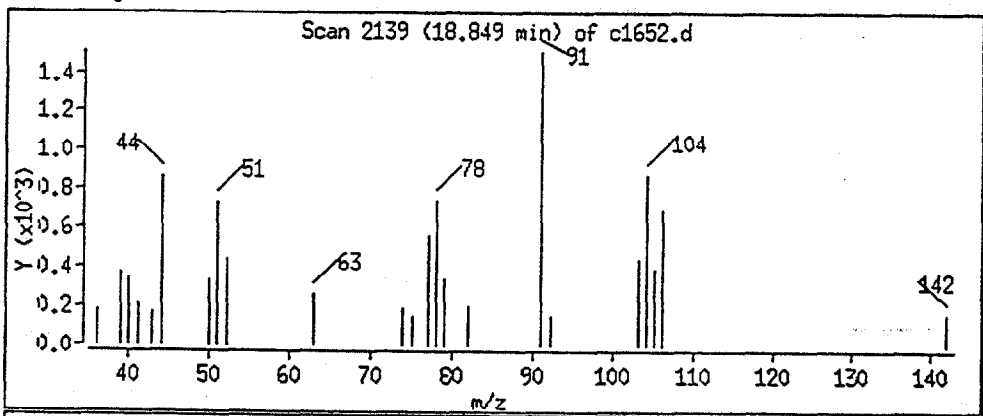
Purge Volume: 1.0

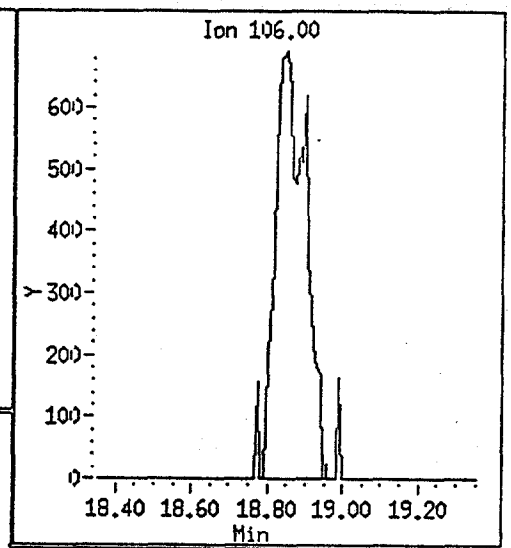
Operator: jk

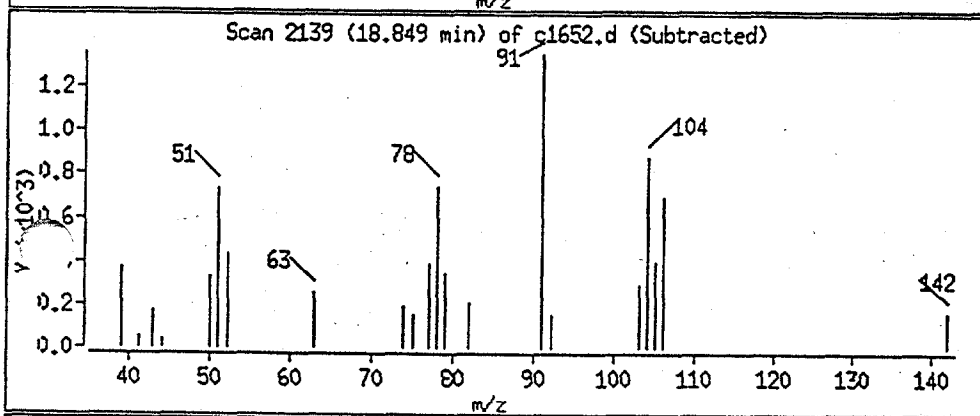
Column phase: J&W DB_624

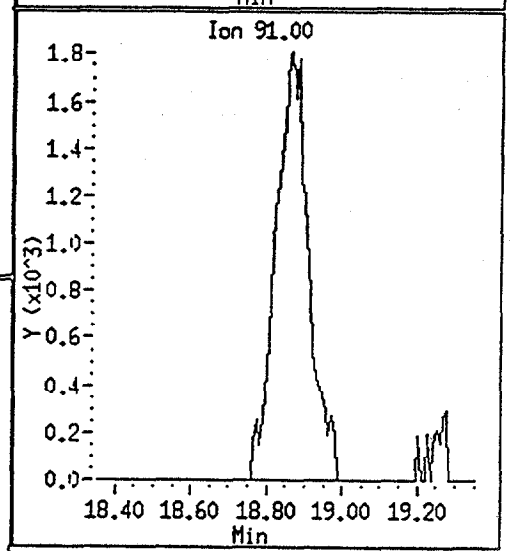
Column diameter: 0.53

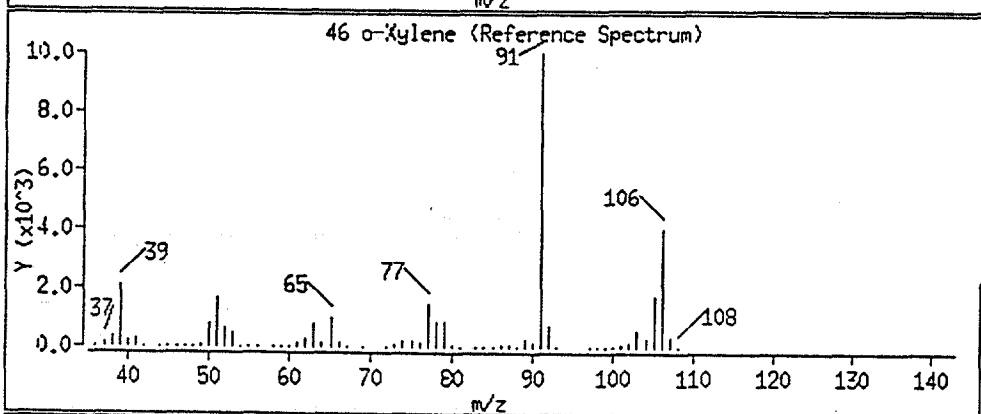
46 o-Xylene

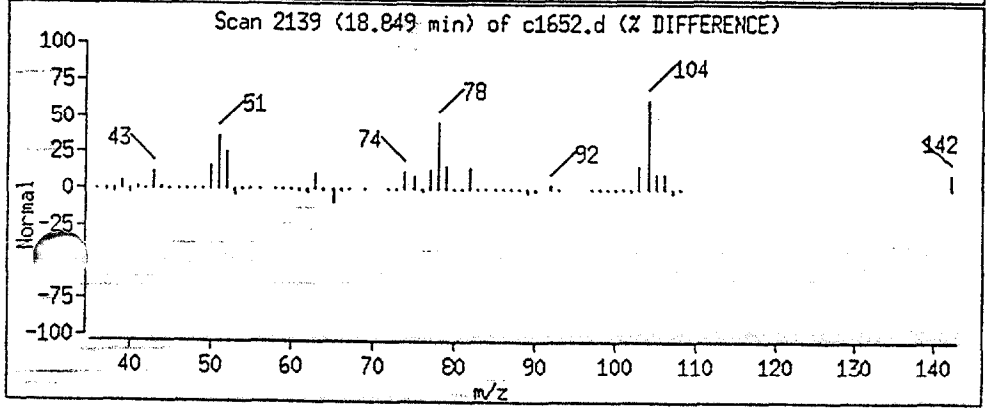












1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

0052 EPA SAMPLE NO.

CLJ-DWW001MS

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DWW-01

Matrix: (soil/water) WATER Lab Sample ID: JN7550VS

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: C1745

Level: (low/med) LOW Date Received: 01/26/95

% Moisture: not dec. _____ Date Analyzed: 02/12/95

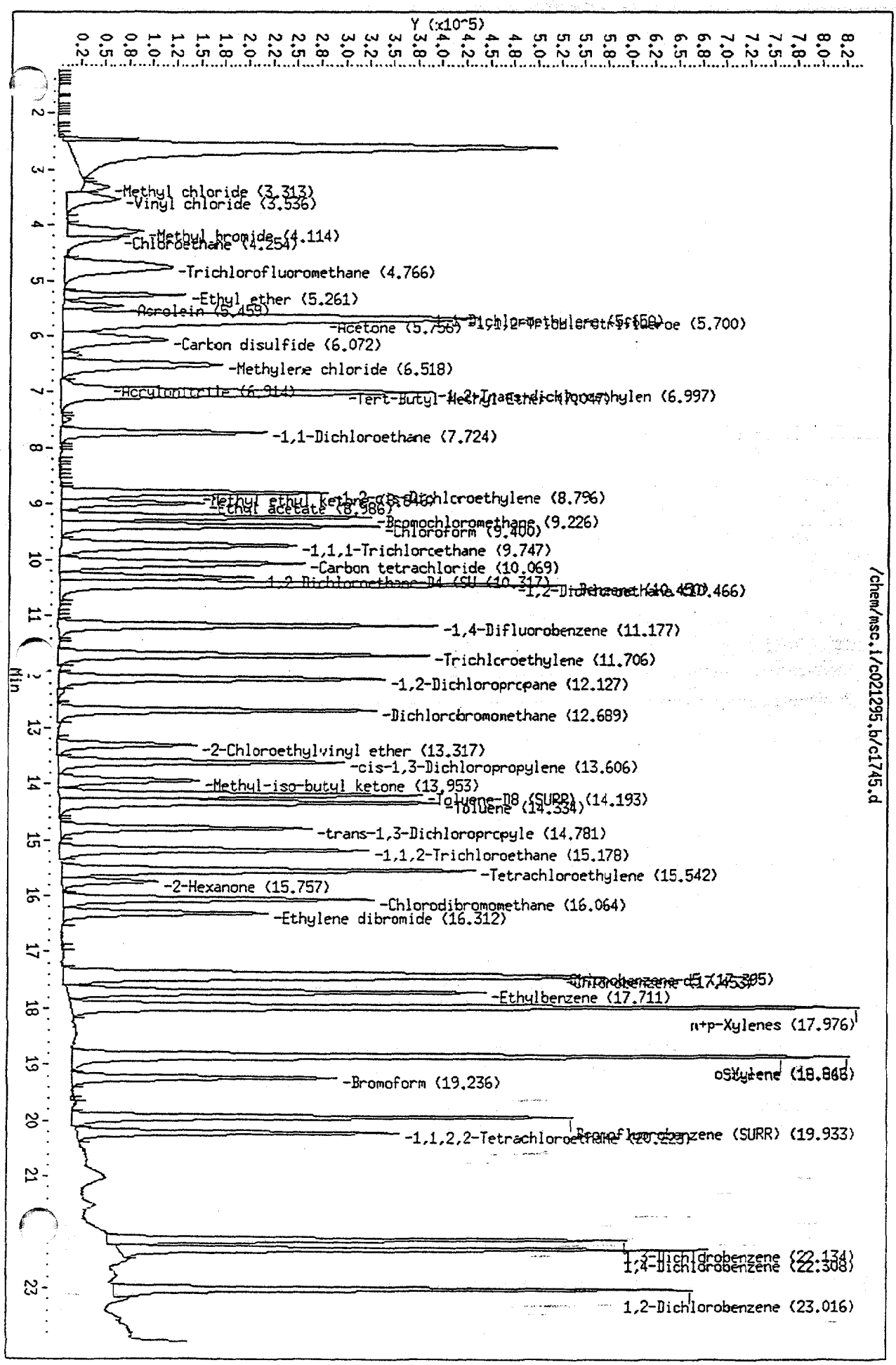
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: ~~5~~ 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	51	
74-83-9	Bromomethane	49	
75-01-4	Vinyl Chloride	48	
75-00-3	Chloroethane	48	
75-09-2	Methylene Chloride	50	B
67-64-1	Acetone	52	B
75-15-0	Carbon Disulfide	49	
75-35-4	1,1-Dichloroethene	49	
75-34-3	1,1-Dichloroethane	48	
67-66-3	Chloroform	50	
107-06-2	1,2-Dichloroethane	48	
78-93-3	2-Butanone	51	
71-55-6	1,1,1-Trichloroethane	50	
56-23-5	Carbon Tetrachloride	50	
75-27-4	Bromodichloromethane	50	
78-87-5	1,2-Dichloropropane	48	
10061-01-5	cis-1,3-Dichloropropene	48	
79-01-6	Trichloroethene	50	
124-48-1	Dibromochloromethane	47	
79-00-5	1,1,2-Trichloroethane	47	
71-43-2	Benzene	50	B
10061-02-6	trans-1,3-Dichloropropene	45	
75-25-2	Bromoform	47	
108-10-1	Methyl-iso-butyl ketone	51	
591-78-6	2-Hexanone	51	
127-18-4	Tetrachloroethylene	48	
79-34-5	1,1,2,2-Tetrachloroethane	49	
108-88-3	Toluene	49	
108-90-7	Chlorobenzene	48	
100-41-4	Ethylbenzene	49	B
100-42-5	Styrene	49	
1330-20-7	Xylene (total)	140	B
156-60-5	1,2-Trans-dichloroethylene	49	

Data File: /chem/msc.i/c021295.b/c1745.d
Date : 12-FEB-95 15:25
Client ID: 15226n clj-dww001ms
Sample Info: 15226n clj-dww001 ms
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i
Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c021295.b/c1745.d
Report Date: 18-Feb-1995 16:20

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msc.i/c021295.b/c1745.d
Lab Smp Id:
Client Smp ID: 15226n clj-dww001ms
Inj Date : 12-FEB-95 15:25
Operator : jk
Inst ID: msc.i
Smp Info : 15226n clj-dww001 ms
Misc Info : jn7550vs,n1v4210,1:m2,5.00,5.00:1,
Comment :
Method : /chem/msc.i/c021295.b/020595ambic.m
Meth Date : 18-Feb-1995 15:35 jeff
Quant Type: ISTD
Cal Date : 12-FEB-95 13:29
Cal File: c1742.d
Als bottle: 8
Dil Factor: 1.000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	1 Methyl chloride	50.00	3.338	3.338	(0.361)	174068	50.5	50.5(M)
	2 Vinyl chloride	62.00	3.536	3.552	(0.383)	244718	48.3	48.3
	3 Methyl bromide	94.00	4.122	4.130	(0.446)	249174	49.4	49.4
	4 Chloroethane	64.00	4.254	4.270	(0.461)	143324	48.3	48.3
	5 Trichlorofluoromethane	101.00	4.766	4.782	(0.516)	593587	49.6	49.6(Q)
	6 Ethyl ether	59.00	5.261	5.269	(0.570)	177292	46.0	46.0
	7 Acrolein	56.00	5.459	5.467	(0.591)	178510	222	222
	8 1,1-Dichloroethylene	96.00	5.650	5.666	(0.612)	260138	49.0	49.0
	9 1,1,2-Trichlorotrifluoroethan	101.00	5.700	5.699	(0.617)	626768	50.0	50.0(Q)
	10 Acetone	43.00	5.758	5.757	(0.623)	84080	52.2	52.2(a)
	11 Carbon disulfide	76.00	6.072	6.097	(0.658)	724793	49.2	49.2
	12 Methylene chloride	84.00	6.518	6.526	(0.706)	294547	49.8	49.8(Q)
	13 Acrylonitrile	53.00	6.914	6.930	(0.749)	66655	51.5	51.5(a)
	14 1,2-Trans-dichloroethylene	96.00	6.989	6.996	(0.757)	278195	49.0	49.0
	15 Tert-Butyl Methyl Ether	73.00	7.047	7.063	(0.763)	615526	49.8	49.8
	16 1,1-Dichloroethane	63.00	7.724	7.740	(0.836)	581548	48.4	48.4
	17 1,2-cis-Dichloroethylene	96.00	8.796	8.804	(0.953)	279201	48.6	48.6
	18 Methyl ethyl ketone	72.00	8.846	8.870	(0.791)	24806	51.1	51.1(aQ)
	19 Ethyl acetate	43.00	8.986	8.994	(0.973)	536972	41.4	41.4
*	20 Bromochloromethane	128.00	9.234	9.242	(1.000)	201184	50.0	
	21 Chloroform	83.00	9.400	9.399	(1.018)	662306	49.6	49.6
	22 1,1,1-Trichloroethane	97.00	9.747	9.746	(0.872)	509736	49.9	49.9
	23 Carbon tetrachloride	117.00	10.069	10.085	(0.901)	463067	50.3	50.3
$	24 1,2-Dichloroethane-D4 (SURR)	65.00	10.317	10.324	(1.117)	410520	52.3	52.3
	25 Benzene	78.00	10.441	10.448	(0.934)	706752	49.5	49.5
	26 1,2-Dichloroethane	62.00	10.466	10.473	(1.133)	471269	48.2	48.2
*	27 1,4-Difluorobenzene	114.00	11.177	11.183	(1.000)	784889	50.0	
	28 Trichloroethylene	130.00	11.697	11.712	(1.047)	334060	49.7	49.7
	29 1,2-Dichloropropane	63.00	12.127	12.125	(1.085)	351719	48.1	48.1

Data File: /chem/msc.i/c021295.b/c1745.d
Report Date: 18-Feb-1995 16:20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	30 Dichlorobromomethane	83.00	12.681	12.695	(1.135)	589940	49.6	49.6
	31 2-Chloroethylvinyl ether	63.00	13.308	13.306	(1.191)	173282	48.5	48.5
	32 cis-1,3-Dichloropropylene	75.00	13.614	13.620	(1.218)	440676	47.9	47.9
	33 Methyl-iso-butyl ketone	43.00	13.945	13.950	(0.802)	360982	50.8	50.8
$	34 Toluene-D8 (SURR)	98.00	14.193	14.198	(0.816)	704916	50.7	50.7
	35 Toluene	92.00	14.334	14.331	(0.824)	487028	49.0	49.0
	36 trans-1,3-Dichloropropylene	75.00	14.781	14.785	(1.322)	372994	45.3	45.3
	37 1,1,2-Trichloroethane	97.00	15.178	15.174	(1.358)	281418	47.0	47.0
	38 Tetrachloroethylene	164.00	15.550	15.546	(0.894)	299205	48.1	48.1
	39 2-Hexanone	43.00	15.749	15.753	(0.905)	245935	51.2	51.2
	40 Chlorodibromomethane	129.00	16.064	16.067	(1.437)	458626	47.4	47.4
	41 Ethylene dibromide	107.00	16.312	16.315	(0.938)	456387	48.2	48.2
*	42 Chlorobenzene-d5	117.00	17.395	17.387	(1.000)	569921	50.0	
	43 Chlorobenzene	112.00	17.453	17.446	(1.003)	600584	47.9	47.9
	44 Ethylbenzene	106.00	17.711	17.711	(1.018)	264633	48.9	48.9
	45 m+p-Xylenes	106.00	17.976	17.967	(1.033)	637966	95.3	95.3
	46 o-Xylene	106.00	18.838	18.834	(1.083)	333289	48.6	48.6
	47 Styrene	104.00	18.863	18.859	(1.084)	531850	48.7	48.7
	48 Bromoform	173.00	19.236	19.240	(1.721)	328932	47.3	47.3
$	49 Bromofluorobenzene (SURR)	95.00	19.933	19.934	(1.146)	589682	49.4	49.4
	1,1,2,2-Tetrachloroethane	83.00	20.223	20.216	(1.163)	494928	49.2	49.2
	51 1,3-Dichlorobenzene	146.00	22.134	22.132	(1.272)	538071	49.1	49.1
	52 1,4-Dichlorobenzene	146.00	22.308	22.307	(1.282)	636457	48.2	48.2
	53 1,2-Dichlorobenzene	146.00	23.016	23.018	(1.323)	574333	49.0	49.0

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

0056 EPA SAMPLE NO.

CLJ-DWW001MSD

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DWW-01

Matrix: (soil/water) WATER Lab Sample ID: JN7550VR

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: C1746

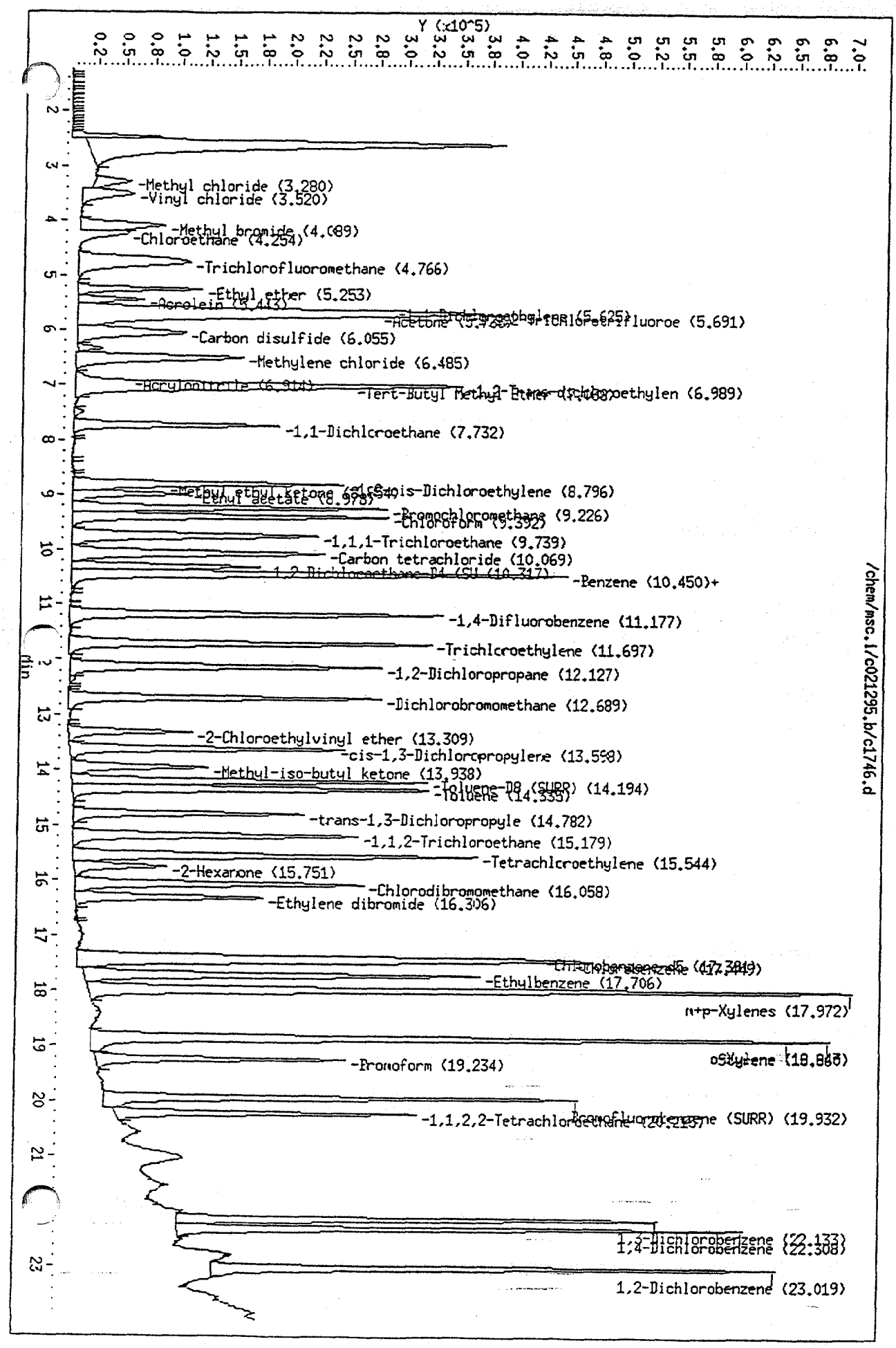
Level: (low/med) LOW Date Received: 01/26/95

% Moisture: not dec. _____ Date Analyzed: 02/12/95

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: ~~2.8~~ 1.0 N/A

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
74-87-3	Chloromethane		59	
74-83-9	Bromomethane		51	
75-01-4	Vinyl Chloride		49	
75-00-3	Chloroethane		49	
75-09-2	Methylene Chloride		50	B
67-64-1	Acetone		43	B
75-15-0	Carbon Disulfide		49	
75-35-4	1,1-Dichloroethene		49	J N
75-34-3	1,1-Dichloroethane		49	
67-66-3	Chloroform		49	
107-06-2	1,2-Dichloroethane		48	
78-93-3	2-Butanone		49	
71-55-6	1,1,1-Trichloroethane		51	
56-23-5	Carbon Tetrachloride		50	
75-27-4	Bromodichloromethane		49	
78-87-5	1,2-Dichloropropane		47	
10061-01-5	cis-1,3-Dichloropropene		46	
79-01-6	Trichloroethene		49	J N
124-48-1	Dibromochloromethane		45	
79-00-5	1,1,2-Trichloroethane		45	N
71-43-2	Benzene		50	J B
10061-02-6	trans-1,3-Dichloropropene		43	
75-25-2	Bromoform		44	
108-10-1	Methyl-iso-butyl ketone		50	
591-78-6	2-Hexanone		51	
127-18-4	Tetrachloroethylene		48	
79-34-5	1,1,2,2-Tetrachloroethane		47	
108-88-3	Toluene		48	J N
108-90-7	Chlorobenzene		48	J N
100-41-4	Ethylbenzene		48	B
100-42-5	Styrene		48	
1330-20-7	Xylene (total)		140	B
156-60-5	1,2-Trans-dichloroethylene		49	



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Date : 12-FEB-95 16:00
Client ID: 15226n cljdww001msd
Sample Info: 15226n clj-dww001 msd
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i
Operator: jk
Column diameter: 0.53

Data File: /chem/msc.i/c021295.b/c1746.d
Report Date: 18-Feb-1995 16:21

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msc.i/c021295.b/c1746.d
Lab Smp Id:
Client Smp ID: 15226n cljdww001msd
Inj Date : 12-FEB-95 16:00
Operator : jk
Inst ID: msc.i
Smp Info : 15226n clj-dww001 msd
Misc Info : jn7550vr,n1v4210,l:m2,5.00,5.00:1,
Comment :
Method : /chem/msc.i/c021295.b/020595ambic.m
Meth Date : 18-Feb-1995 15:35 jeff
Quant Type: ISTD
Cal Date : 12-FEB-95 13:29
Cal File: c1742.d
Als bottle: 9
Dil Factor: 1.000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	1 Methyl chloride	50.00	3.280	3.338	(0.356)	171248	58.8	58.8(M)
	2 Vinyl chloride	62.00	3.520	3.552	(0.382)	209902	49.0	49.0
	3 Methyl bromide	94.00	4.089	4.130	(0.443)	216519	50.8	50.8
	4 Chloroethane	64.00	4.254	4.270	(0.461)	121990	48.6	48.6
	5 Trichlorofluoromethane	101.00	4.774	4.782	(0.517)	493786	48.8	48.8(Q)
	6 Ethyl ether	59.00	5.253	5.269	(0.569)	154994	47.6	47.6
	7 Acrolein	56.00	5.443	5.467	(0.590)	147024	216	216
	8 1,1-Dichloroethylene	96.00	5.625	5.666	(0.610)	219874	48.9	48.9
	9 1,1,2-Trichlorotrifluoroethan	101.00	5.691	5.699	(0.617)	538542	50.8	50.8(Q)
	10 Acetone	43.00	5.733	5.757	(0.621)	58627	43.0	43.0(a)
	11 Carbon disulfide	76.00	6.055	6.097	(0.656)	613584	49.2	49.2
	12 Methylene chloride	84.00	6.485	6.526	(0.703)	248686	49.7	49.7
	13 Acrylonitrile	53.00	6.914	6.930	(0.749)	50050	45.7	45.7(a)
	14 1,2-Trans-dichloroethylene	96.00	6.980	6.996	(0.757)	235048	49.0	49.0
	15 Tert-Butyl Methyl Ether	73.00	7.038	7.063	(0.763)	526143	50.4	50.4
	16 1,1-Dichloroethane	63.00	7.732	7.740	(0.838)	501086	49.3	49.3
	17 1,2-cis-Dichloroethylene	96.00	8.796	8.804	(0.953)	238248	49.0	49.0
	18 Methyl ethyl ketone	72.00	8.854	8.870	(0.793)	19993	48.8	48.8(aQ)
	19 Ethyl acetate	43.00	8.978	8.994	(0.973)	369525	33.7	33.7
*	20 Bromochloromethane	128.00	9.226	9.242	(1.000)	170164	50.0	
	21 Chloroform	83.00	9.400	9.399	(1.019)	557474	49.4	49.4
	22 1,1,1-Trichloroethane	97.00	9.739	9.746	(0.872)	439207	50.9	50.9
	23 Carbon tetrachloride	117.00	10.069	10.085	(0.902)	386740	49.7	49.7
S	24 1,2-Dichloroethane-D4 (SURR)	65.00	10.309	10.324	(1.117)	350411	52.8	52.8
	25 Benzene	78.00	10.441	10.448	(0.935)	603861	50.1	50.1
	26 1,2-Dichloroethane	62.00	10.450	10.473	(1.133)	394126	47.6	47.6
*	27 1,4-Difluorobenzene	114.00	11.168	11.183	(1.000)	662661	50.0	
	28 Trichloroethylene	130.00	11.706	11.712	(1.048)	279952	49.4	49.4
	29 1,2-Dichloropropane	63.00	12.127	12.125	(1.086)	289340	46.9	46.9

Data File: /chem/msc.i/c021295.b/c1746.d
Report Date: 18-Feb-1995 16:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	30 Dichlorobromomethane	83.00	12.689	12.695	(1.136)	490289	48.8	48.8
	31 2-Chloroethylvinyl ether	63.00	13.317	13.306	(1.192)	131702	43.6	43.6
	32 cis-1,3-Dichloropropylene	75.00	13.598	13.620	(1.218)	357720	46.1	46.1
	33 Methyl-iso-butyl ketone	43.00	13.938	13.950	(0.801)	296194	50.2	50.2
S	34 Toluene-D8 (SURR)	98.00	14.194	14.198	(0.816)	568284	49.2	49.2
	35 Toluene	92.00	14.335	14.331	(0.824)	393663	47.8	47.8
	36 trans-1,3-Dichloropropylene	75.00	14.782	14.785	(1.324)	298228	42.9	42.9
	37 1,1,2-Trichloroethane	97.00	15.188	15.174	(1.360)	226903	44.9	44.9
	38 Tetrachloroethylene	164.00	15.552	15.546	(0.894)	247368	47.9	47.9
	39 2-Hexanone	43.00	15.743	15.753	(0.905)	203750	51.1	51.1
	40 Chlorodibromomethane	129.00	16.066	16.067	(1.438)	366071	44.8	44.8
	41 Ethylene dibromide	107.00	16.306	16.315	(0.938)	365814	46.5	46.5
	42 Chlorobenzene-d5	117.00	17.391	17.387	(1.000)	472812	50.0	
	43 Chlorobenzene	112.00	17.449	17.446	(1.003)	497661	47.8	47.8
	44 Ethylbenzene	106.00	17.706	17.711	(1.018)	215353	47.9	47.9
	45 m+p-Xylenes	106.00	17.972	17.967	(1.033)	516102	92.9	92.9
	46 o-Xylene	106.00	18.843	18.834	(1.083)	272620	47.9	47.9
	47 Styrene	104.00	18.860	18.859	(1.084)	436650	48.2	48.2
	48 Bromoform	173.00	19.234	19.240	(1.722)	257553	43.8	43.8
S	49 Bromofluorobenzene (SURR)	95.00	19.932	19.934	(1.146)	477078	48.2	48.2
	1,1,2,2-Tetrachloroethane	83.00	20.224	20.216	(1.163)	389971	46.8	46.8
	51 1,3-Dichlorobenzene	146.00	22.141	22.132	(1.273)	449208	49.4	49.4
	52 1,4-Dichlorobenzene	146.00	22.317	22.307	(1.283)	525786	48.0	48.0
	53 1,2-Dichlorobenzene	146.00	23.019	23.018	(1.324)	484433	49.8	49.8

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

0060 EPA SAMPLE NO.

VSPK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DWW-01

Matrix: (soil/water) WATER Lab Sample ID: N1V4210VS

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: C1653

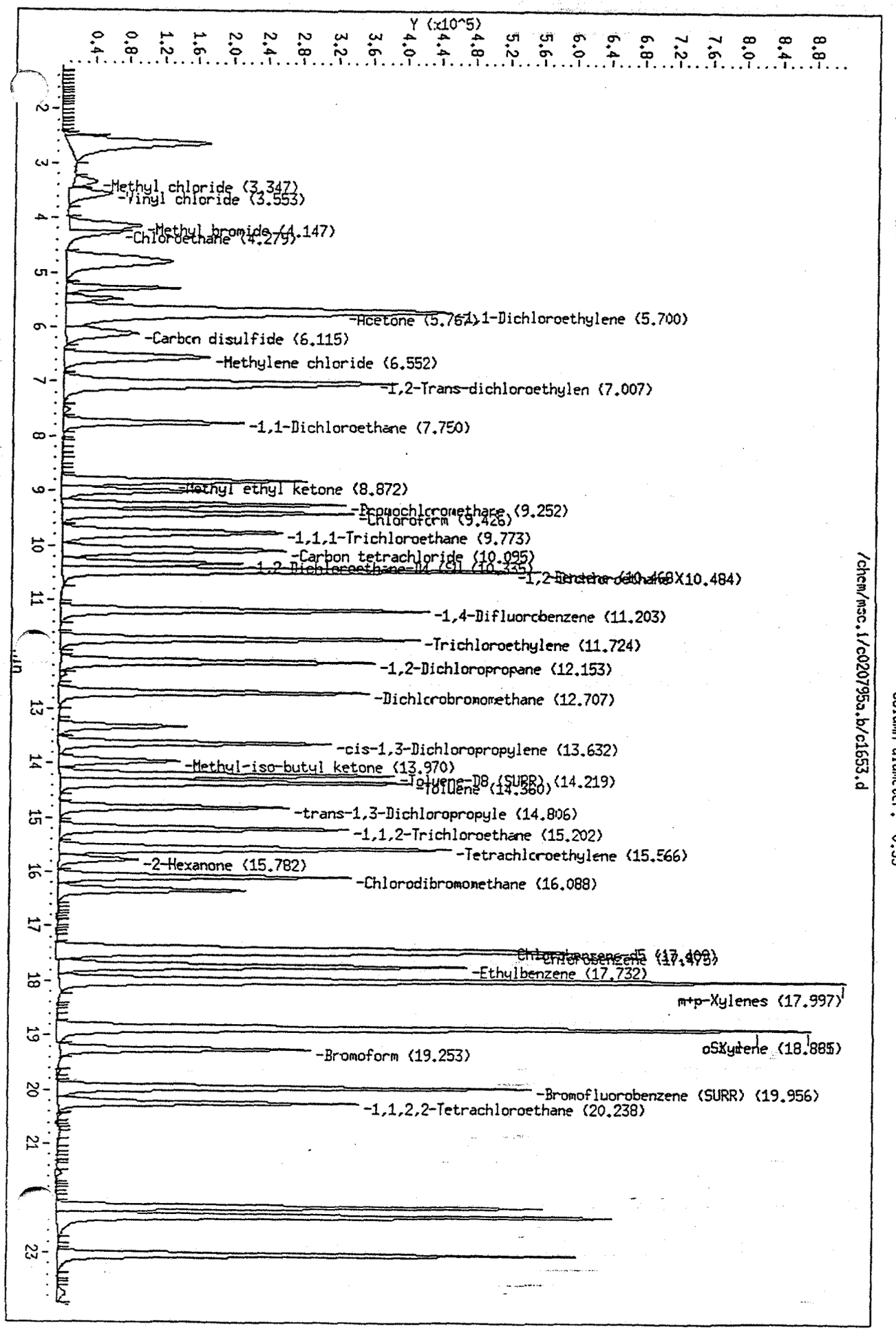
Level: (low/med) LOW Date Received: N/A

% Moisture: not dec. _____ Date Analyzed: 02/07/95

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	39	
74-83-9	Bromomethane	50	
75-01-4	Vinyl Chloride	49	
75-00-3	Chloroethane	49	
75-09-2	Methylene Chloride	51	B
67-64-1	Acetone	60	B
75-15-0	Carbon Disulfide	47	
75-35-4	1,1-Dichloroethene	51	
75-34-3	1,1-Dichloroethane	48	
67-66-3	Chloroform	48	
107-06-2	1,2-Dichloroethane	51	
78-93-3	2-Butanone	54	
71-55-6	1,1,1-Trichloroethane	46	
56-23-5	Carbon Tetrachloride	47	
75-27-4	Bromodichloromethane	49	
78-87-5	1,2-Dichloropropane	51	
10061-01-5	cis-1,3-Dichloropropene	48	
79-01-6	Trichloroethene	50	
124-48-1	Dibromochloromethane	48	
79-00-5	1,1,2-Trichloroethane	48	
71-43-2	Benzene	48	B
10061-02-6	trans-1,3-Dichloropropene	47	
75-25-2	Bromoform	50	
108-10-1	Methyl-iso-butyl ketone	56	
591-78-6	2-Hexanone	58	
127-18-4	Tetrachloroethylene	48	
79-34-5	1,1,2,2-Tetrachloroethane	55	
108-88-3	Toluene	50	
108-90-7	Chlorobenzene	50	
100-41-4	Ethylbenzene	49	B
100-42-5	Styrene	50	
1330-20-7	Xylene (total)	150	B
156-60-5	1,2-Trans-dichloroethylene	49	



Data File: /chem/msc.i/c020795a.b/c1653.d
Date : 07-FEB-95 17:56
Client ID: met spike
Sample Info: met spike
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i
Operator: jk
Column diameter: 0.53

Data File: /chem/msc.i/c020795a.b/c1653.d
Report Date: 18-Feb-1995 16:02

AMC

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msc.i/c020795a.b/c1653.d
Lab Smp Id: Client Smp ID: met spike
Inj Date : 07-FEB-95 17:56
Operator : jk Inst ID: msc.i
Smp Info : met spike
Misc Info : n1v4210vs,n1v4210,1:m2,5.00,5.00:1
Comment :
Method : /chem/msc.i/c020795a.b/020595ambic.m
Meth Date : 18-Feb-1995 15:31 jeff Quant Type: ISTD
Cal Date : 07-FEB-95 13:22 Cal File: c1646.d
Als bottle: 8
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: tcl.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	Methyl chloride	50.00	3.347	3.355	(0.361)	153891	39.2	39.2(M)
2	Vinyl chloride	62.00	3.545	3.553	(0.383)	250722	48.7	48.7
3	Methyl bromide	94.00	4.139	4.147	(0.447)	262991	49.9	49.9
4	Chloroethane	64.00	4.279	4.279	(0.462)	152860	48.6	48.6
8	1,1-Dichloroethylene	96.00	5.692	5.691	(0.615)	275815	51.2	51.2
10	Acetone	43.00	5.767	5.774	(0.623)	76907	59.9	59.9(a)
11	Carbon disulfide	76.00	6.115	6.089	(0.660)	563097	47.1	47.1
12	Methylene chloride	84.00	6.552	6.543	(0.708)	291152	50.6	50.6
14	1,2-Trans-dichloroethylene	96.00	7.007	7.014	(0.757)	280979	48.7	48.7
16	1,1-Dichloroethane	63.00	7.750	7.757	(0.837)	569268	47.9	47.9
18	Methyl ethyl ketone	72.00	8.872	8.888	(0.792)	24260	54.4	54.4(aQ)
21	Chloroform	83.00	9.418	9.417	(1.017)	662202	48.1	48.1
22	1,1,1-Trichloroethane	97.00	9.765	9.764	(0.872)	519995	45.6	45.6
25	Benzene	78.00	10.459	10.467	(0.934)	752862	47.8	47.8
26	1,2-Dichloroethane	62.00	10.484	10.483	(1.132)	505305	50.8	50.8
* 27	1,4-Difluorobenzene	114.00	11.203	11.210	(1.000)	844625	50.0	
* 20	Bromochloromethane	128.00	9.261	9.260	(1.000)	202376	50.0	
23	Carbon tetrachloride	117.00	10.087	10.086	(0.900)	473950	47.2	47.2
28	Trichloroethylene	130.00	11.732	11.739	(1.047)	360022	49.8	49.8
29	1,2-Dichloropropane	63.00	12.153	12.152	(1.085)	376560	50.7	50.7
30	Dichlorobromomethane	83.00	12.715	12.714	(1.135)	626970	48.8	48.8
32	cis-1,3-Dichloropropylene	75.00	13.632	13.630	(1.217)	453497	47.7	47.7
33	Methyl-iso-butyl ketone	43.00	13.962	13.961	(0.802)	338374	56.3	56.3
S 34	Toluene-D8 (SURR)	98.00	14.219	14.217	(0.817)	707394	51.0	51.0
35	Toluene	92.00	14.360	14.358	(0.825)	499714	49.8	49.8
	trans-1,3-Dichloropropylene	75.00	14.814	14.804	(1.322)	381657	46.6	46.6
	Tetrachloroethylene	164.00	15.566	15.565	(0.894)	312030	48.0	48.0
40	Chlorodibromomethane	129.00	16.079	16.094	(1.435)	478465	47.6	47.6
* 42	Chlorobenzene-d5	117.00	17.409	17.407	(1.000)	601651	50.0	

Data File: /chem/msc.i/c020795a.b/c1653.d
Report Date: 18-Feb-1995 16:02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	43 Chlorobenzene	112.00	17.475	17.465	(1.004)	639929	49.8	49.8
	44 Ethylbenzene	106.00	17.732	17.730	(1.019)	283334	48.8	48.8
	39 2-Hexanone	43.00	15.773	15.764	(0.906)	227953	57.9	57.9
	45 m+p-Xylenes	106.00	17.997	17.995	(1.034)	705441	98.8	98.8
	46 o-Xylene	106.00	18.856	18.854	(1.083)	360502	50.5	50.5
	47 Styrene	104.00	18.881	18.879	(1.085)	562710	50.2	50.2
	48 Bromoform	173.00	19.253	19.260	(1.719)	338950	50.0	50.0
S	49 Bromofluorobenzene (SURR)	95.00	19.956	19.946	(1.146)	614818	51.2	51.2
	50 1,1,2,2-Tetrachloroethane	83.00	20.230	20.236	(1.162)	505392	54.9	54.9
S	24 1,2-Dichloroethane-D4 (SURR)	65.00	10.335	10.334	(1.116)	400321	48.6	48.6
	37 1,1,2-Trichloroethane	97.00	15.211	15.201	(1.358)	290338	48.3	48.3

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0064

EPA SAMPLE NO.

CLJ-DWW001

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DWW-01

Matrix: (soil/water) WATER Lab Sample ID: JN7550C

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B5885

Level: (low/med) LOW Date Received: 01/26/95

% Moisture: _____ decanted: (Y/N) N Date Extracted: 01/27/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 02/04/95

Injection Volume: 2.00 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	200	U
111-44-4	bis(2-Chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
95-50-1	1,2-Dichlorobenzene	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-oxybis(1-Chloropropane)	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	bis(2-Chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	200	U
131-11-3	Dimethylphthalate	200	U
208-96-8	Acenaphthylene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
99-09-2	3-Nitroaniline	200	U
83-32-9	Acenaphthene	200	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0065

EPA SAMPLE NO.

CLJ-DWW001

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: _____ Case No.: 15226N SAS No.: _____ SDG No.: CLJ-DWW-01

Matrix: (soil/water) WATER Lab Sample ID: JN7550C

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B5885

Level: (low/med) LOW Date Received: 01/26/95

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 01/27/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 02/04/95

Injection Volume: 2.00 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000 ~~74~~ JU 01	
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
86-73-7	Fluorene	200	U
100-01-6	4-Nitroaniline	200	U
534-52-1	4,6-Dinitro-2-methylphenol	500	U
101-55-3	4-Bromophenyl-phenylether	200	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
118-74-1	Hexachlorobenzene	200	U
87-86-5	Pentachlorophenol	200	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-2	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	bis(2-Ethylhexyl)phthalate	54	J
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenz(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U

(1) - Cannot be separated from Diphenylamine

0066

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CLJ-DWW001

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: _____ Case No.: 15226N SAS No.: _____ SDG No.: CLJ-DWW-01

Matrix: (soil/water) WATER Lab Sample ID: JN7550C

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B5885

Level: (low/med) LOW Date Received: 01/26/95

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 01/27/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 02/04/95

Injection Volume: 2.00 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: 7.0

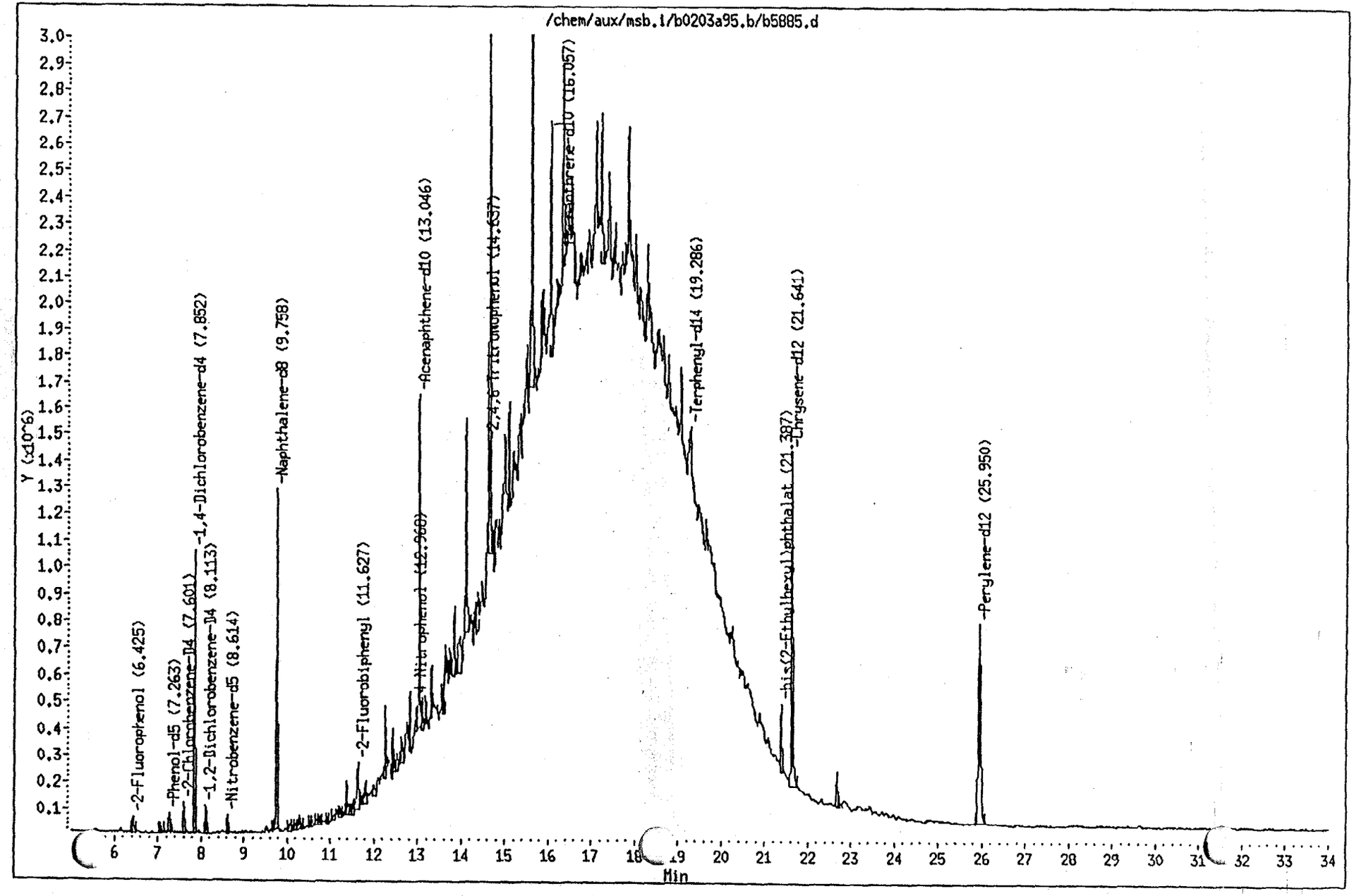
Number TICs found: 17 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	3891-98-3	Dodecane, 2,6,10-trimethyl-	11.38	41	JN
2.	17312-62-8	Decane, 5-propyl-	12.26	75	JN
3.	0-00-0	Decahydro-4,4,8,9,10-pentame	12.43	48	JN
4.	54832-83-6	1H-Indene, octahydro-2,2,4,4	12.83	64	JN
5.		unknown	13.10	40	J
6.		unknown	13.32	54	J
7.	544-76-3	Hexadecane	13.63	85	JN
8.		unknown	13.84	72	J
9.		unknown	13.97	96	J
10.	17312-81-1	Undecane, 3,5-dimethyl-	14.12	250	JN
11.	6165-44-2	Cyclohexane, 1,1'-(1,4-butan	14.37	42	JN
12.	1921-70-6	Pentadecane, 2,6,10,14-tetra	14.66	770	JN
13.	1560-96-9	Tridecane, 2-methyl-	15.10	140	JN
14.	54833-48-6	Heptadecane, 2,6,10,15-tetra	15.62	860	JN
15.	55045-09-5	Tridecane, 7-propyl-	16.35	270	JN
16.	112-95-8	Eicosane	17.22	240	JN
17.		unknown	22.69	43	J

0067

Data File: /chem/aux/msb.i/b0203a95.b/b5885.d
Date : 04-FEB-95 04:54
Instrument : msb.i
Sample ID : clj-dww001
Column phase : J&W DB-5
Volume Injected (uL) : 2.0

Column diameter : 0.25



Data File: /chem/aux/msb.i/b0203a95.b/b5885.d
Report Date: 04-Feb-1995 07:48

Analytical Services Corp.

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/aux/msb.i/b0203a95.b/b5885.d
Lab. Id. :
Quant Type: ISTD
Inj Date : 04-FEB-95 04:54
Autotune Date: (
Operator : Tom
Inst ID: msb.i
Smp Info : 15226n clj-dww001
Misc Info : jn7550c,n1c50110,m1,2,20
Comment :
Method : /chem/aux/msb.i/b0203a95.b/bnaclpb.m
Meth Date : 04-Feb-1995 07:38 tom
Cal Date : 04-FEB-95 00:29
Cal File: b5879.d
Als bottle: 19
Dil Factor: 1.000
Target Version: Target 3.00
Integrator: HP RTE
Compound Sublist: all.sub
Sample Matrix: WATER

2-23-95

Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
$ 2-Fluorophenol	112.00	6.425	(0.818)	35154	4.45	2.22(aR)
$ 4 Phenol-d5	99.00	7.274	(0.926)	30413	3.40	1.70(aR)
$ 7 2-Chlorobenzene-D4	132.00	7.601	(0.968)	50795	6.56	3.28(aAR)
* 10 1,4-Dichlorobenzene-d4	152.00	7.852	(1.000)	319392	40.0	(Q)
$ 12 1,2-Dichlorobenzene-D4	152.00	8.113	(1.033)	28587	4.36	2.18(aAR)
$ 19 Nitrobenzene-d5	82.00	8.614	(0.883)	34059	3.78	1.89(aR)
* 27 Naphthalene-d8	136.00	9.758	(1.000)	950257	40.0	
$ 37 2-Fluorobiphenyl	172.00	11.627	(0.891)	84700	5.24	2.62(aR)
* 44 Acenaphthene-d10	164.00	13.046	(1.000)	597340	40.0	
47 4-Nitrophenol	109.00	12.968	(0.994)	9687	7.39	~~3.69(aQ)~~
$ 56 2,4,6-Tribromophenol	330.00	14.637	(1.122)	14539	5.34	2.67(aR)
* 60 Phenanthrene-d10	188.00	16.057	(1.000)	843770	40.0	
$ 68 Terphenyl-d14	244.00	19.286	(0.891)	94603	4.57	2.29(aR)
* 71 Chrysene-d12	240.00	21.641	(1.000)	938785	40.0	
74 bis(2-Ethylhexyl)phthalate	149.00	21.387	(0.988)	116893	5.42	2.71(a)
* 79 Perylene-d12	264.00	25.950	(1.000)	972043	40.0	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: /chem/aux/msb.i/b0203a95.b/b5885.d

Date : 04-FEB-95 04:54

Instrument : msb.i

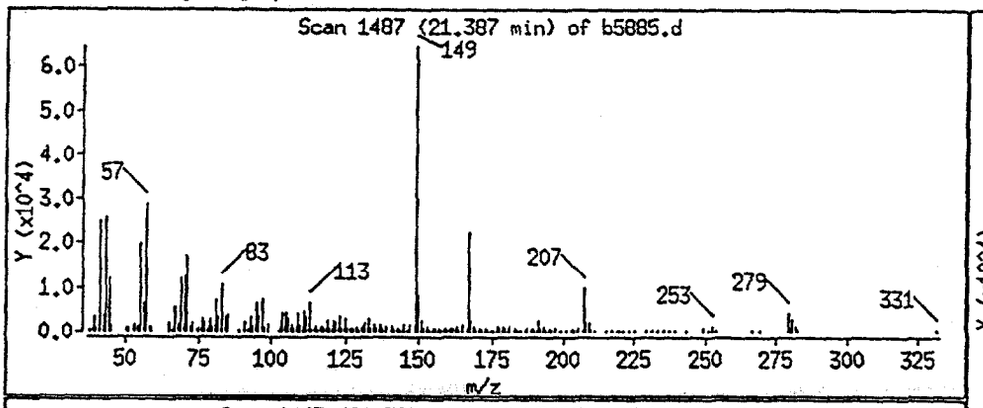
Sample ID : clj-dww001

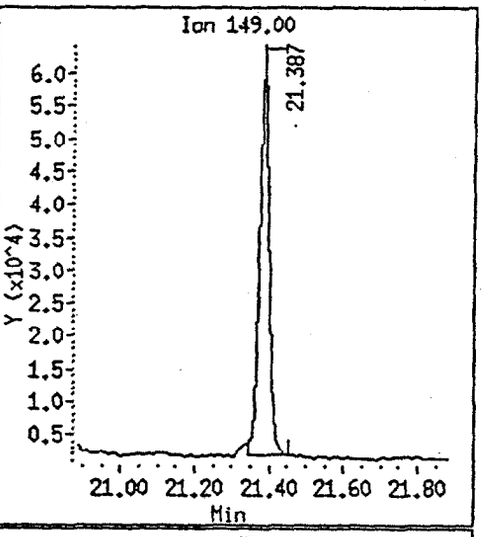
Column phase : J&W DB-5

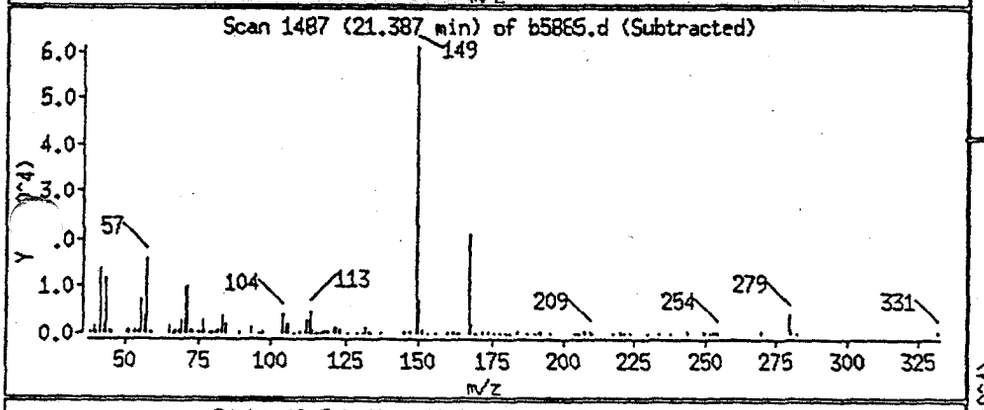
Column diameter : 0.25

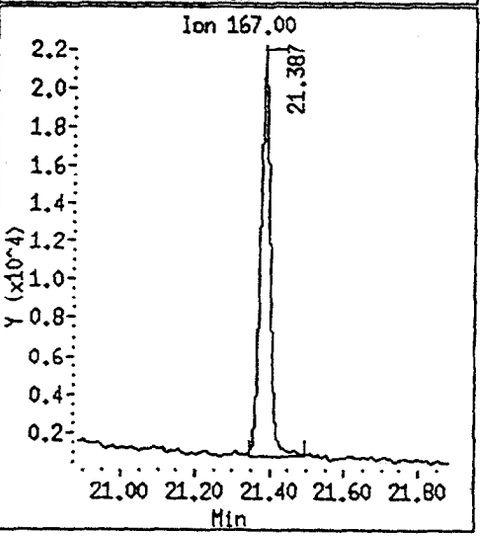
Volume Injected (uL) : 2.0

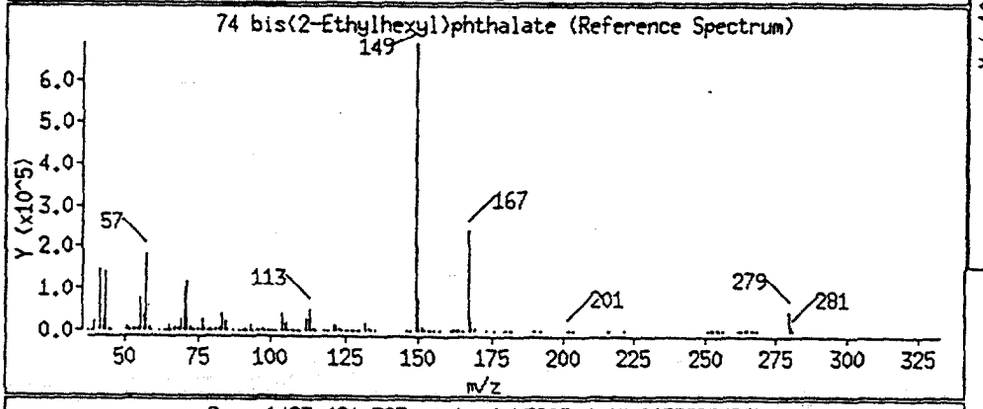
74 bis(2-Ethylhexyl)phthalate

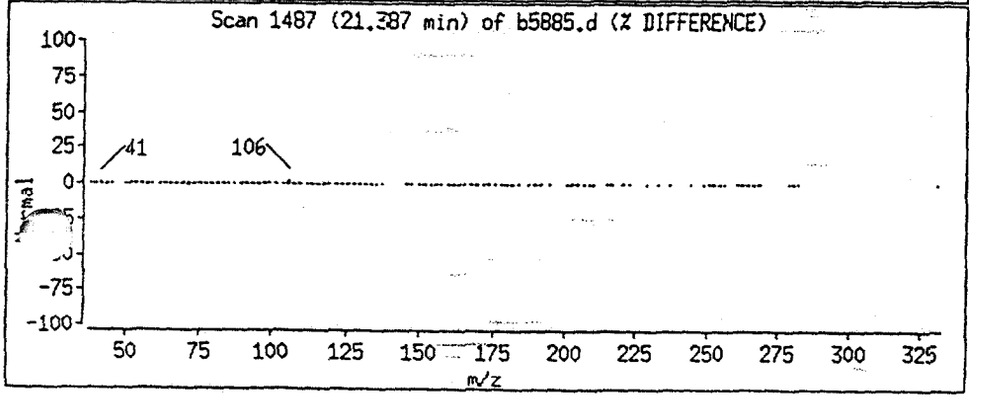








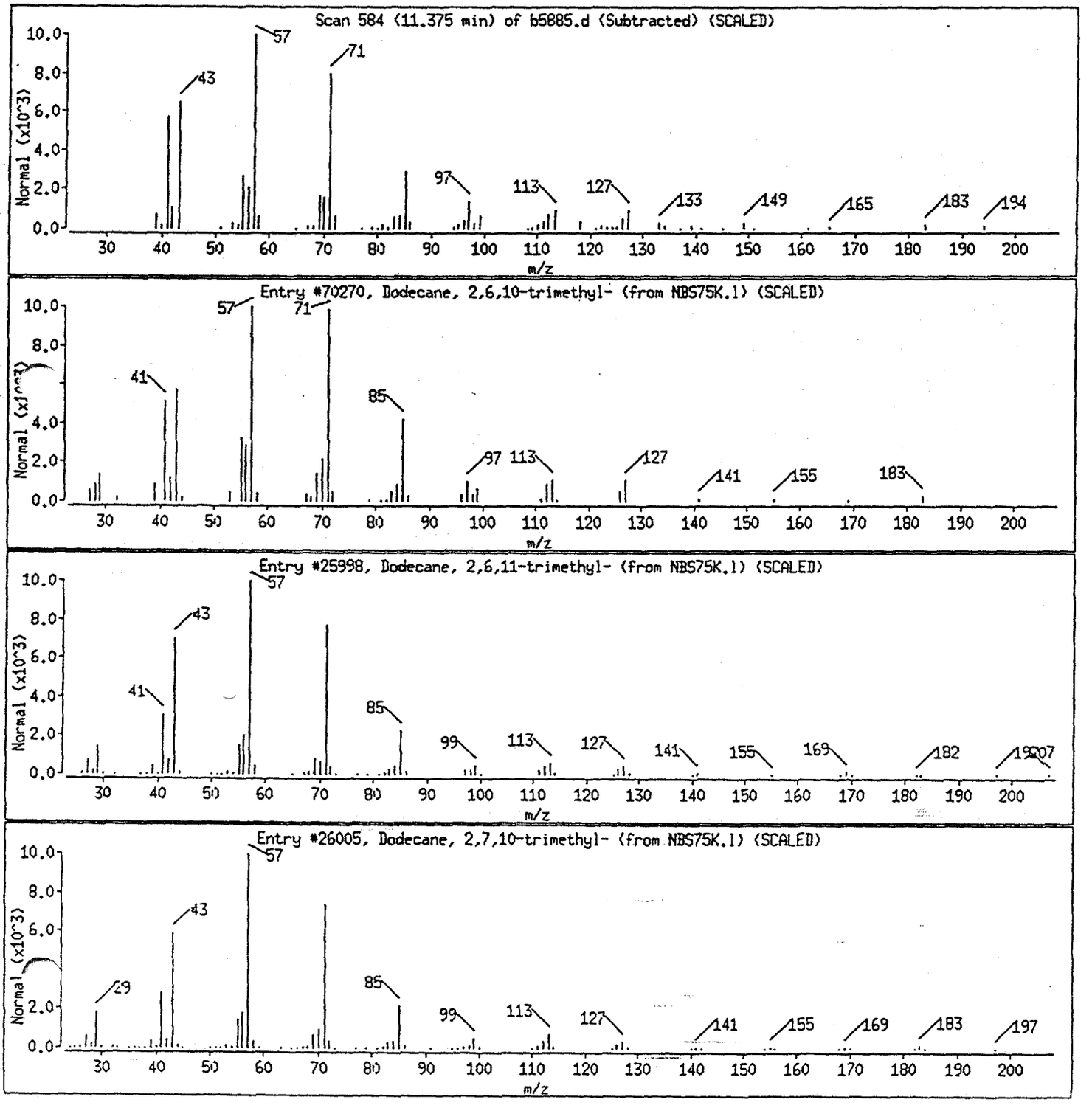




Data File: /chem/aux/msb.i/b0203a95.b/b5885.d

Date : 04-FEB-95 04:54
Instrument : msb.i
Sample ID : clj-dww001
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 2.0

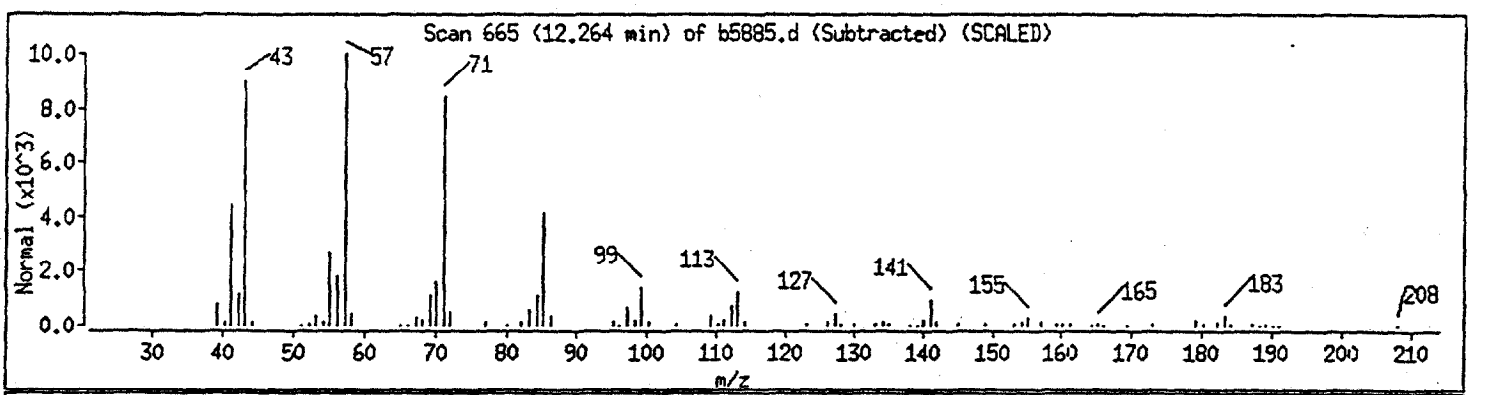
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Dodecane, 2,6,10-trimethyl-	3891-98-3	NBS75K.l	70270	91
Dodecane, 2,6,11-trimethyl-	31295-56-4	NBS75K.l	25998	86
Dodecane, 2,7,10-trimethyl-	74645-98-0	NBS75K.l	26005	80

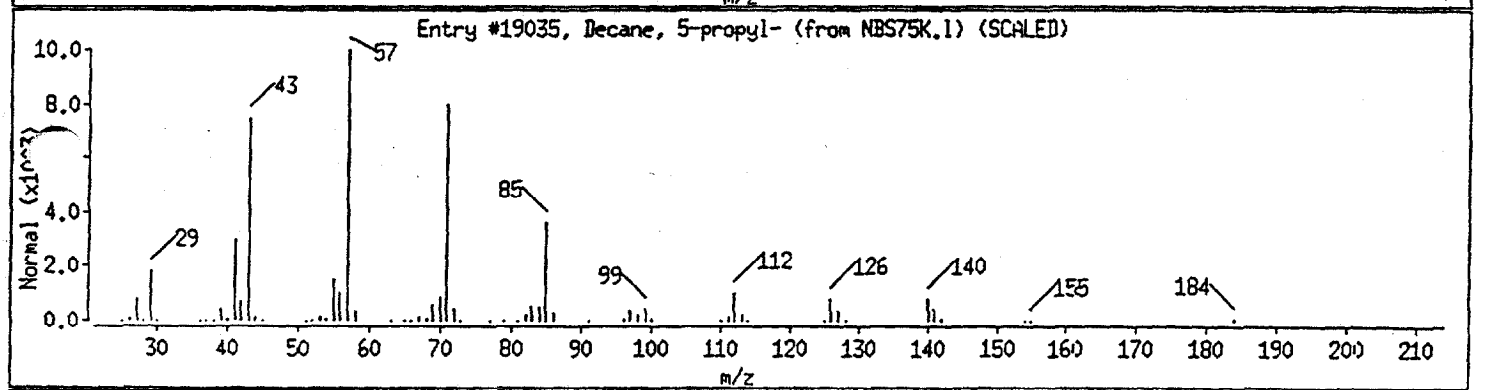


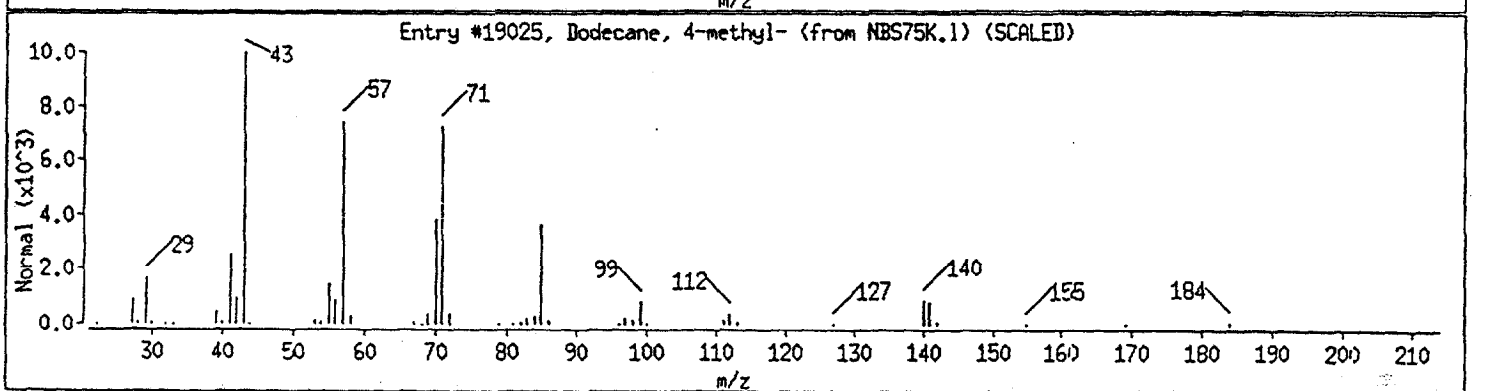
Data File: /chem/aux/msb.i/b0203a95.b/b5885.d

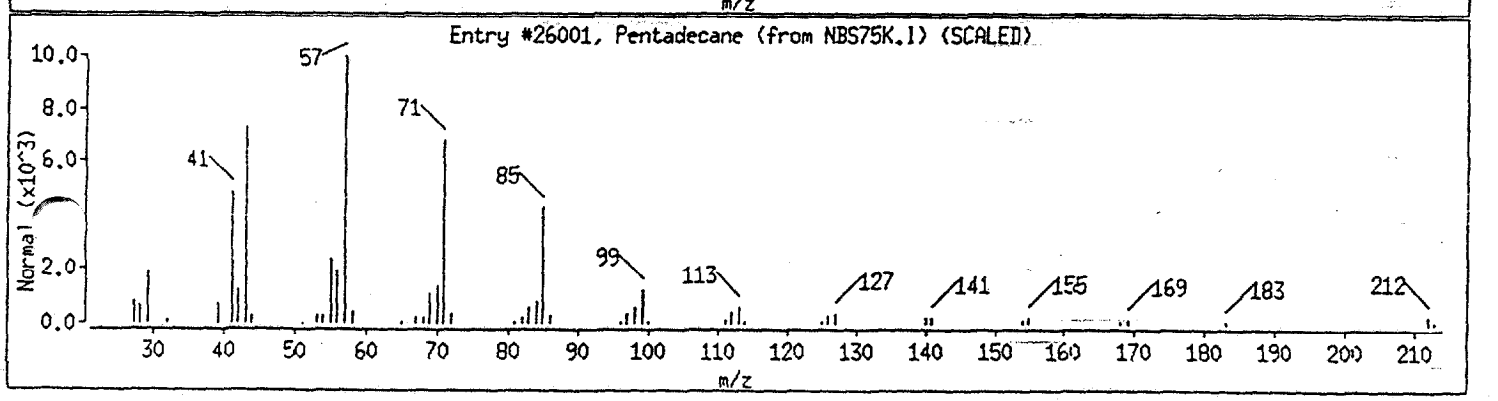
Date : 04-FEB-95 04:54
Instrument : msb.i
Sample ID : clj-dww001
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Decane, 5-propyl-	17312-62-8	NBS75K.1	19035	90
Dodecane, 4-methyl-	6117-97-1	NBS75K.1	19025	87
Pentadecane	629-62-9	NBS75K.1	26001	87





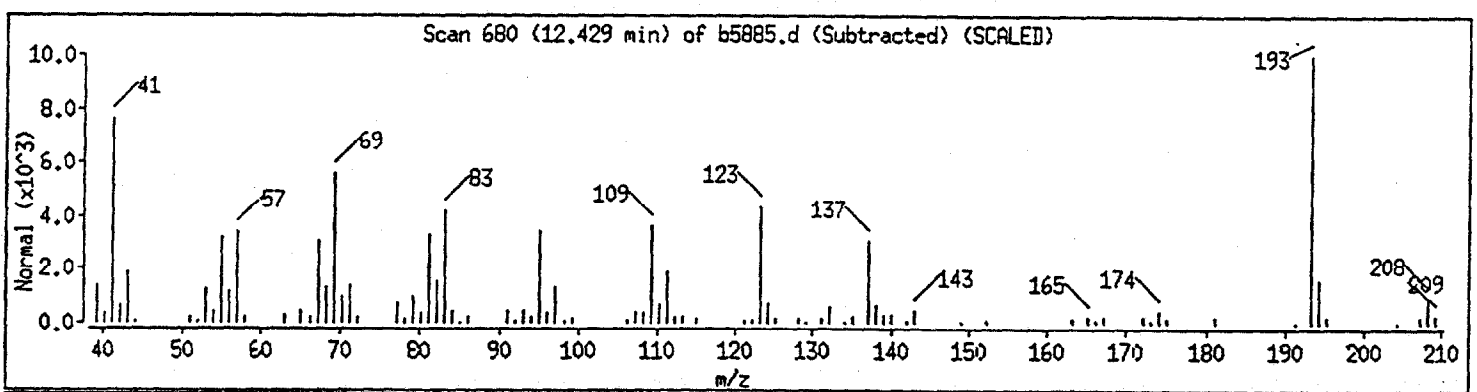


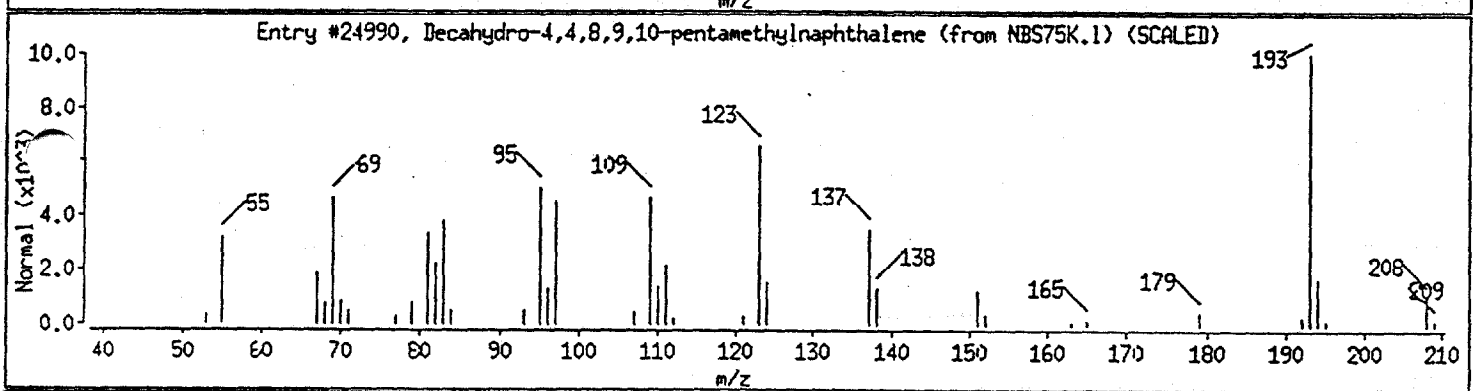


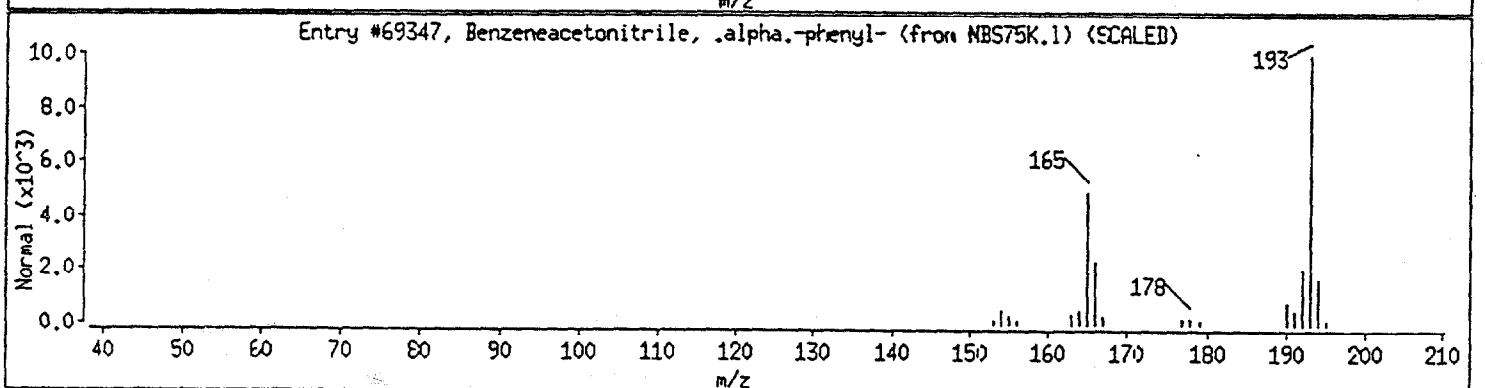
Data File: /chem/aux/msb.i/b0203a95.b/b5885.d

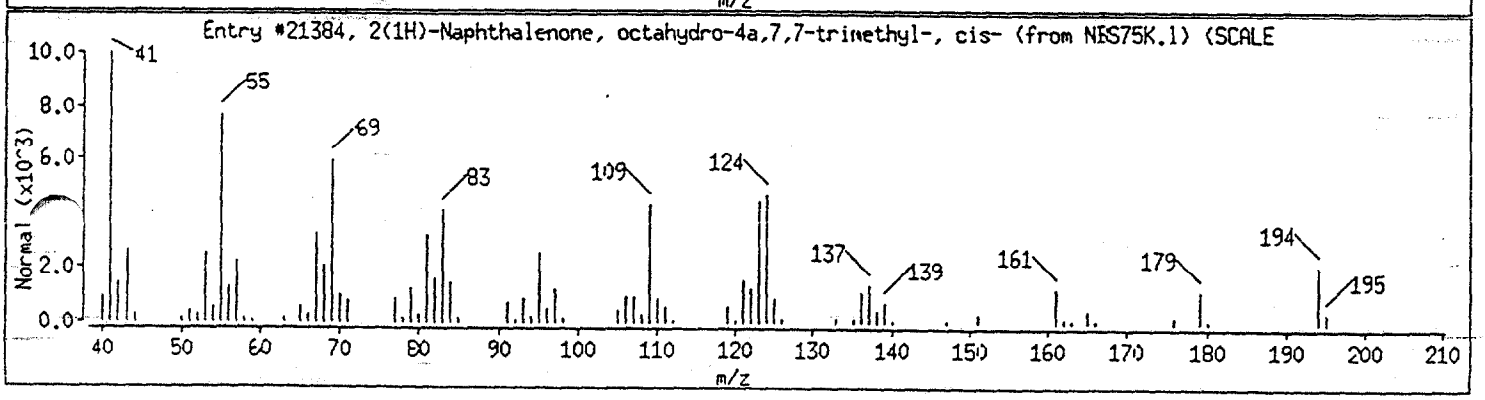
Date : 04-FEB-95 04:54
Instrument : msb.i
Sample ID : clj-dww001
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Decahydro-4,4,8,9,10-pentamethylnaphthal	0-00-0	NBS75K.1	24990	72
Benzeneacetonitrile, .alpha.-phenyl-	86-29-3	NBS75K.1	69347	64
2(1H)-Naphthalenone, octahydro-4a,7,7-tr	7056-56-6	NBS75K.1	21384	49



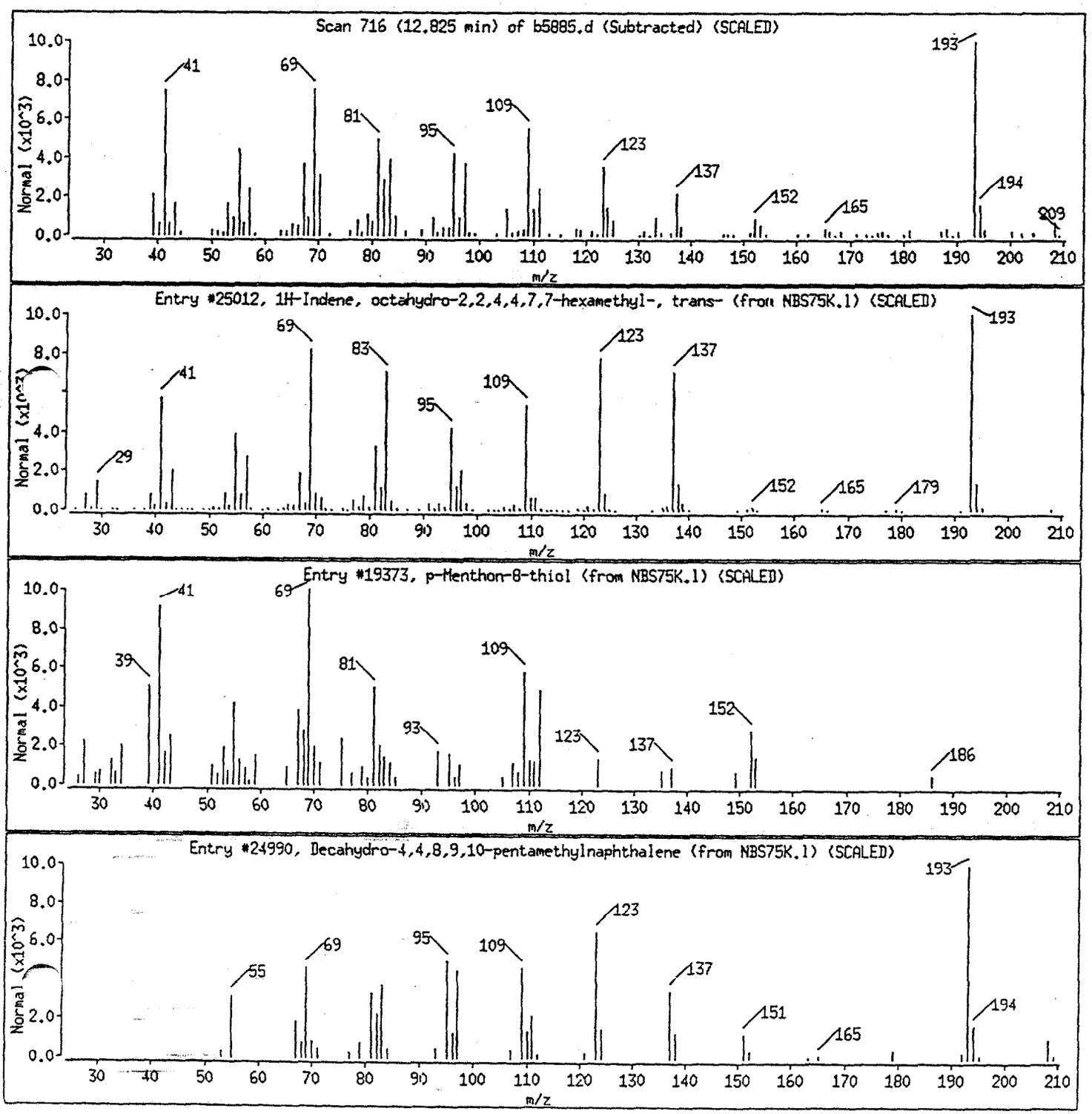






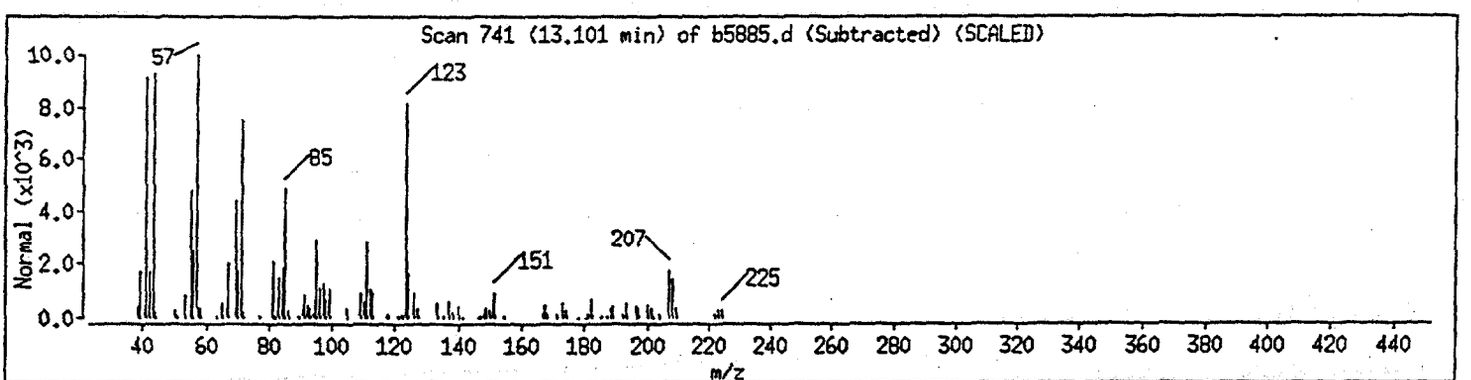
Data File: /chem/aux/msb.i/b0203a95.b/b5885.d
Date : 04-FEB-95 04:54
Instrument : msb.i
Sample ID : clj-dww001
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 2.0

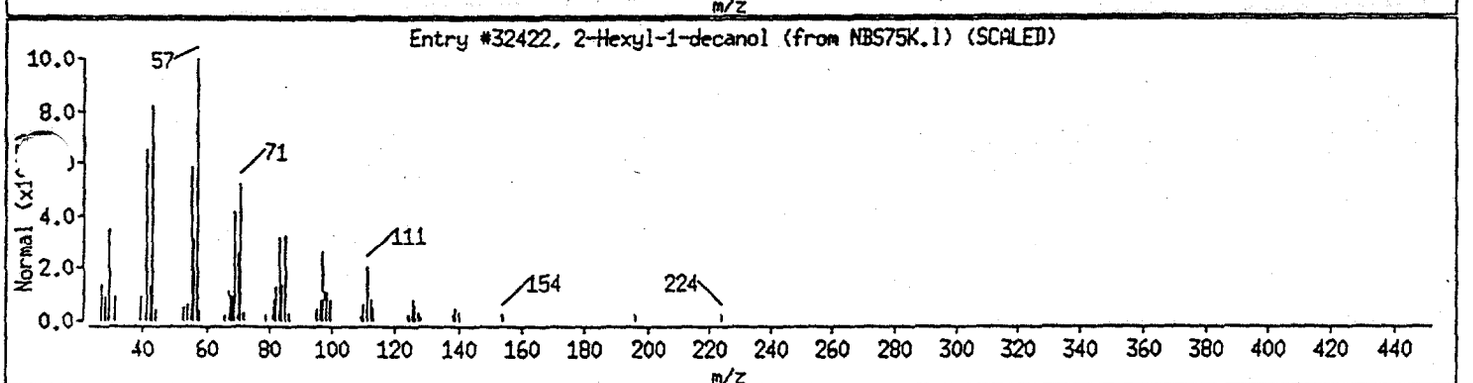
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
1H-Indene, octahydro-2,2,4,4,7,7-hexamet	54832-83-6	NBS75K.1	25012	53
p-Menthon-8-thiol	33281-91-3	NBS75K.1	19373	35
Decahydro-4,4,8,9,10-pentamethylnaphthal	0-00-0	NBS75K.1	24990	35

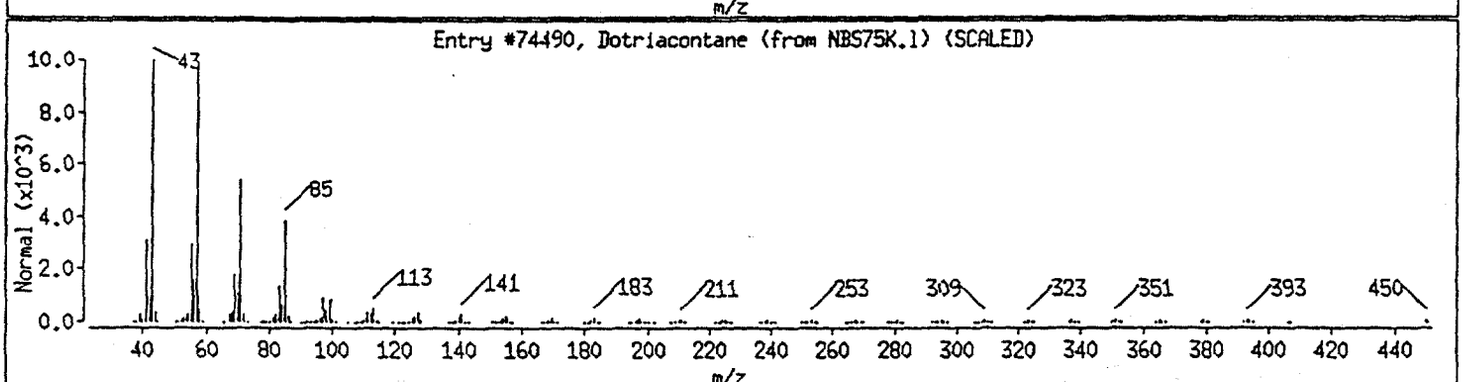


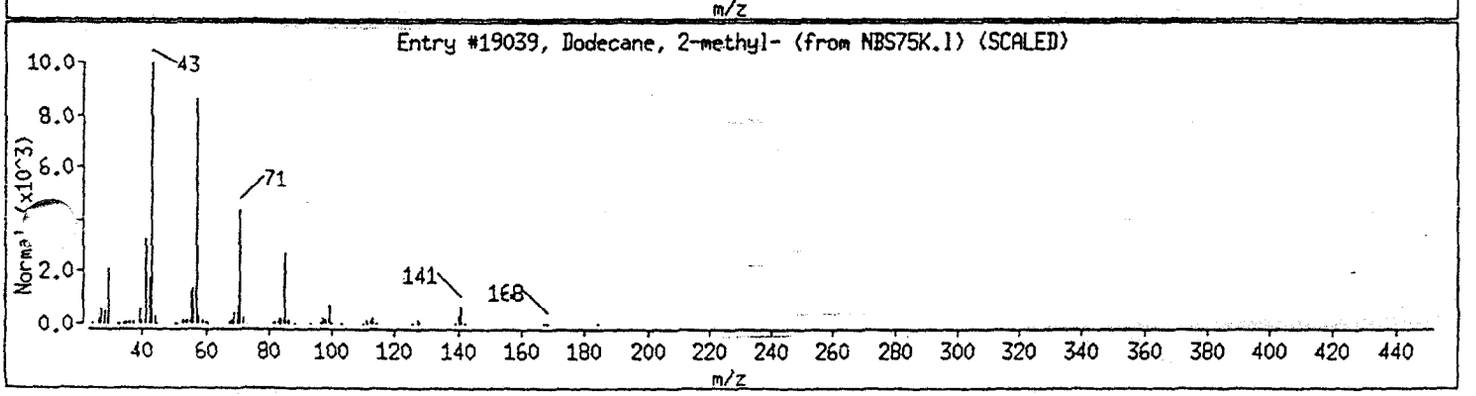
Data File: /chem/aux/msb.i/b0203a95.b/b5885.d
Date : 04-FEB-95 04:54
Instrument : msb.i
Sample ID : clj-dww001
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
2-Hexyl-1-decanol	0-00-0	NBS75K.l	32422	38
Dotriacontane	544-85-4	NBS75K.l	74490	35
Dodecane, 2-methyl-	1560-97-0	NBS75K.l	19039	27





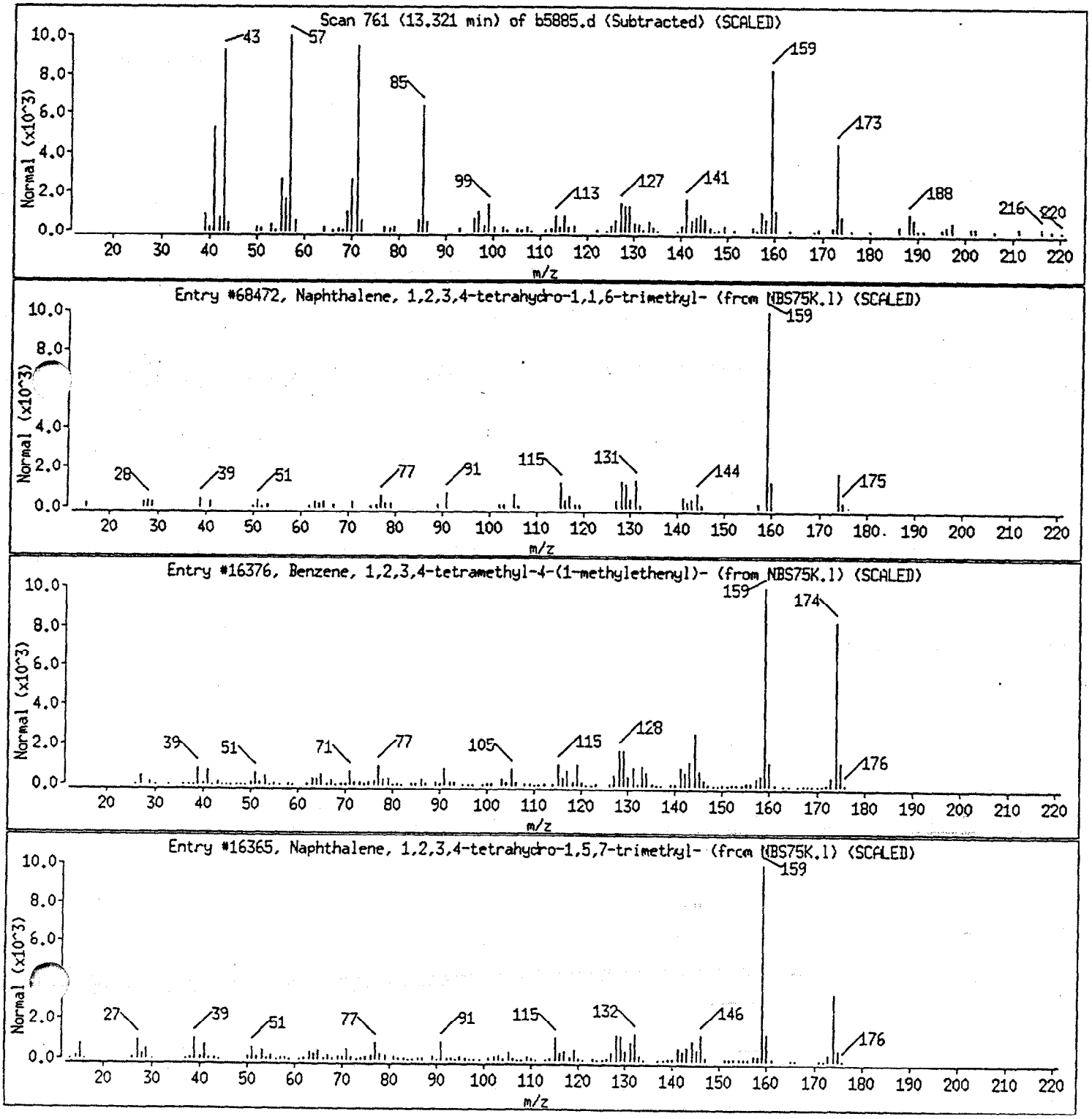




Data File: /chem/aux/msb.i/b0203a95.b/b5885.d

Date : 04-FEB-95 04:54
Instrument : msb.i
Sample ID : clj-dww001
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 2.0

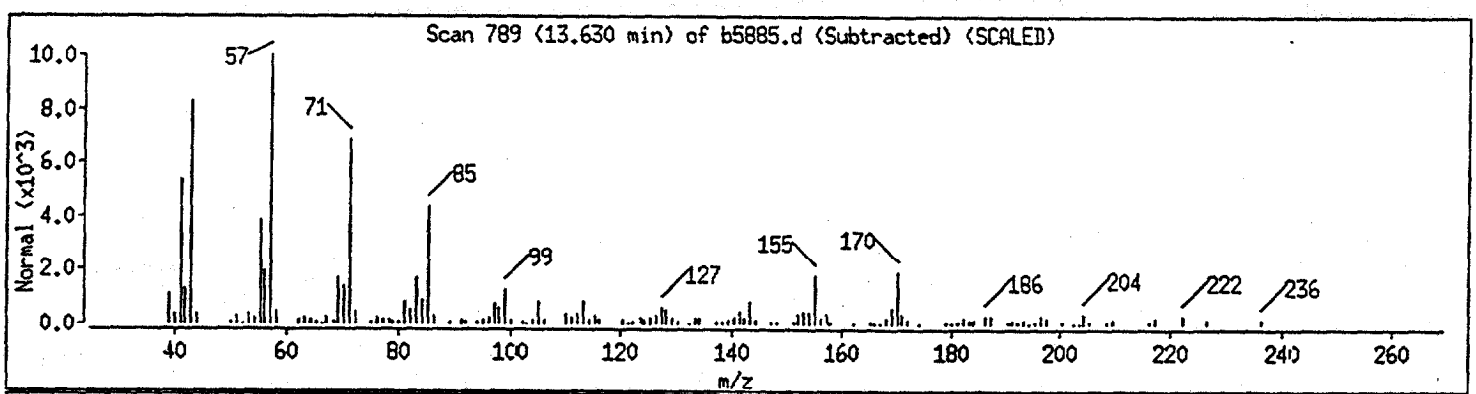
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Naphthalene, 1,2,3,4-tetrahydro-1,1,6-tr	475-03-6	NBS75K.1	68472	42
Benzene, 1,2,3,4-tetramethyl-4-(1-methyl	61142-76-5	NBS75K.1	16376	38
Naphthalene, 1,2,3,4-tetrahydro-1,5,7-tr	21693-55-0	NBS75K.1	16365	38

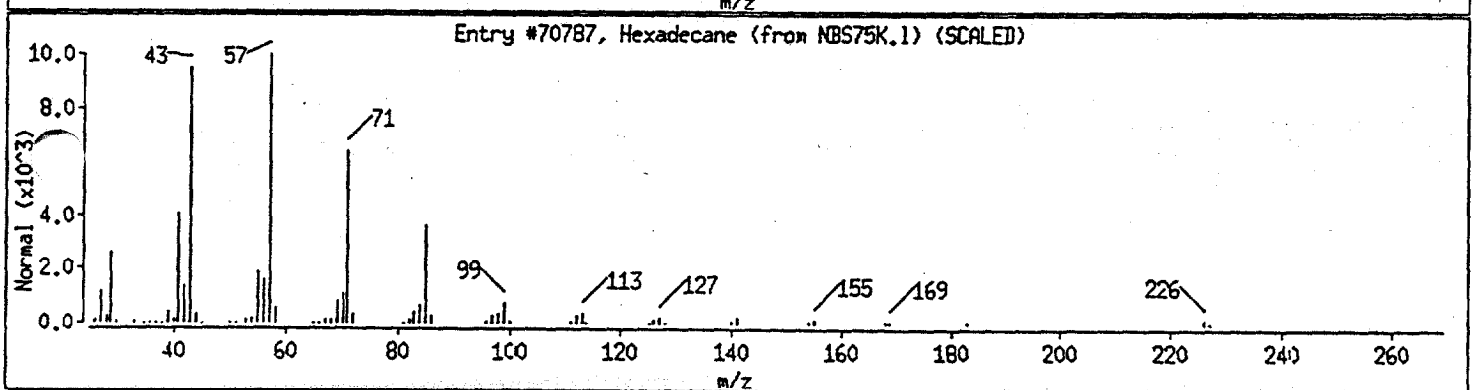


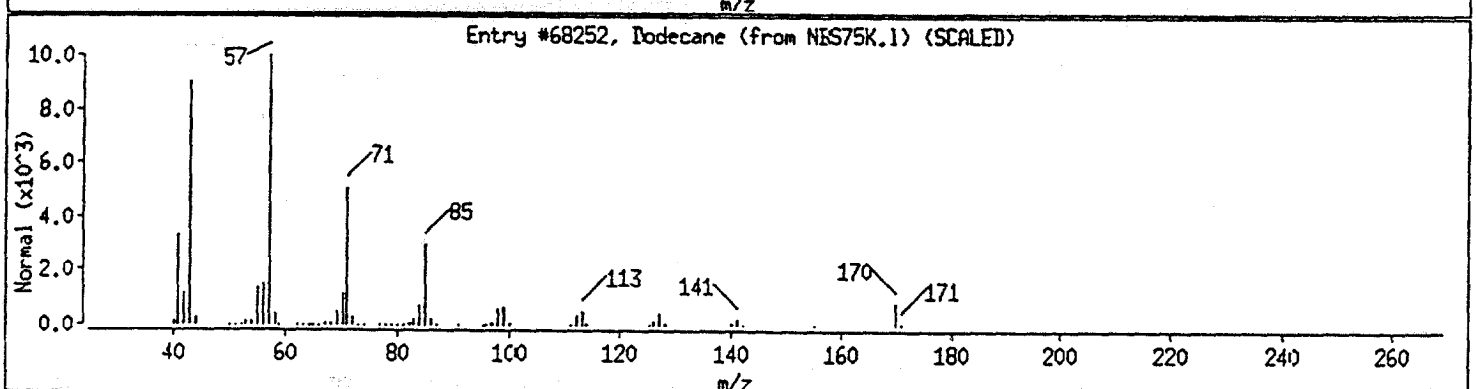
Data File: /chem/aux/msb.i/b0203a95.b/b5885.d

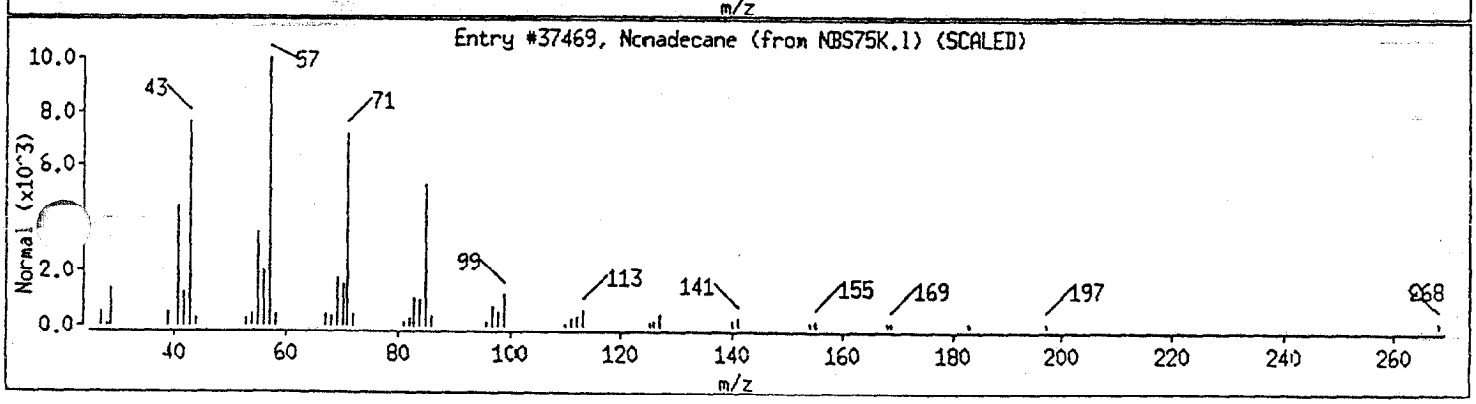
Date : 04-FEB-95 04:54
Instrument : msb.i
Sample ID : clj-dww001
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Hexadecane	544-76-3	NBS75K.l	70787	94
Dodecane	112-40-3	NBS75K.l	68252	83
Nonadecane	629-92-5	NBS75K.l	37469	76





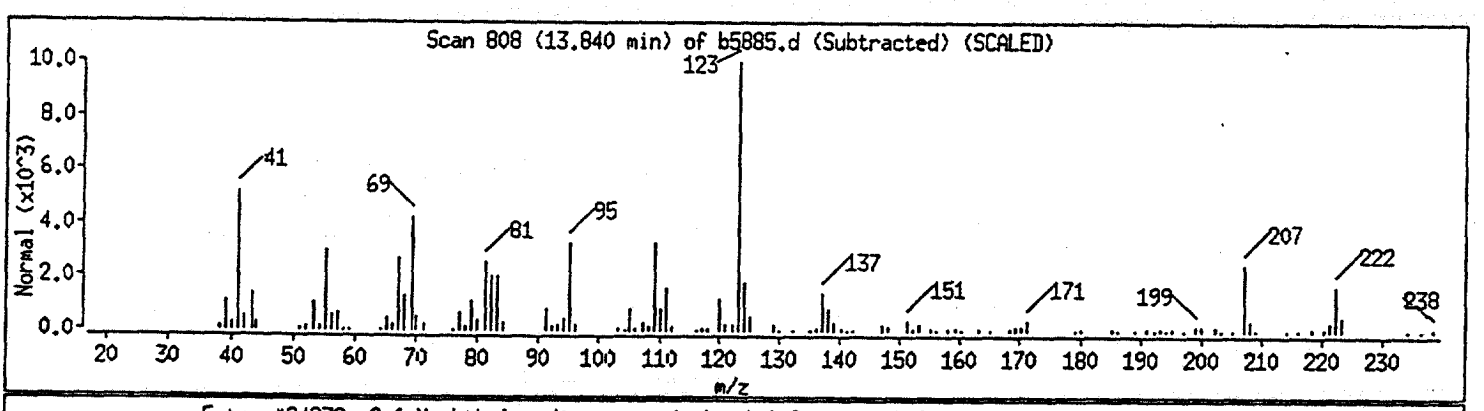


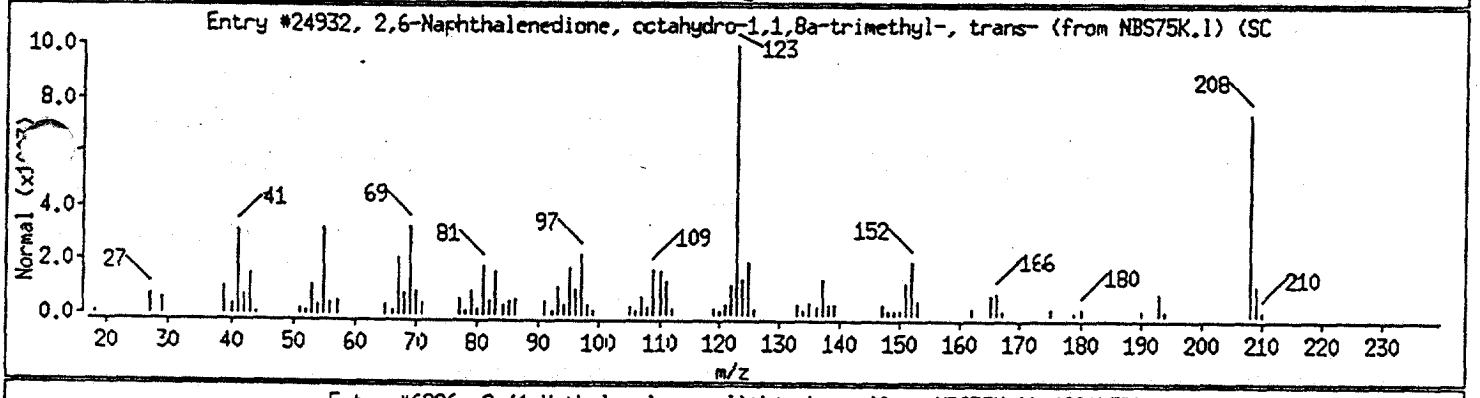


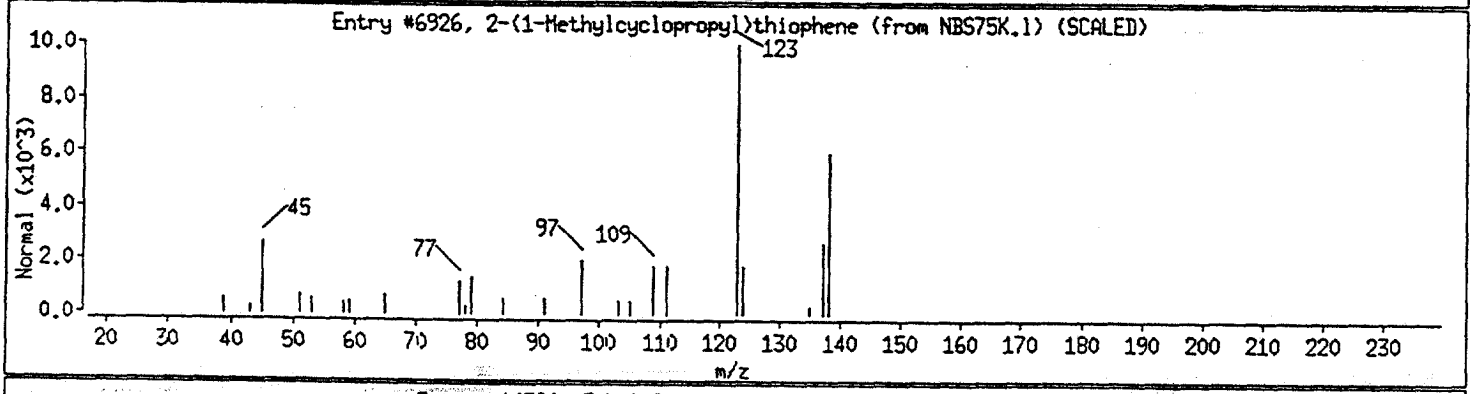
Data File: /chem/aux/msb.i/b0203a95.b/b5885.d

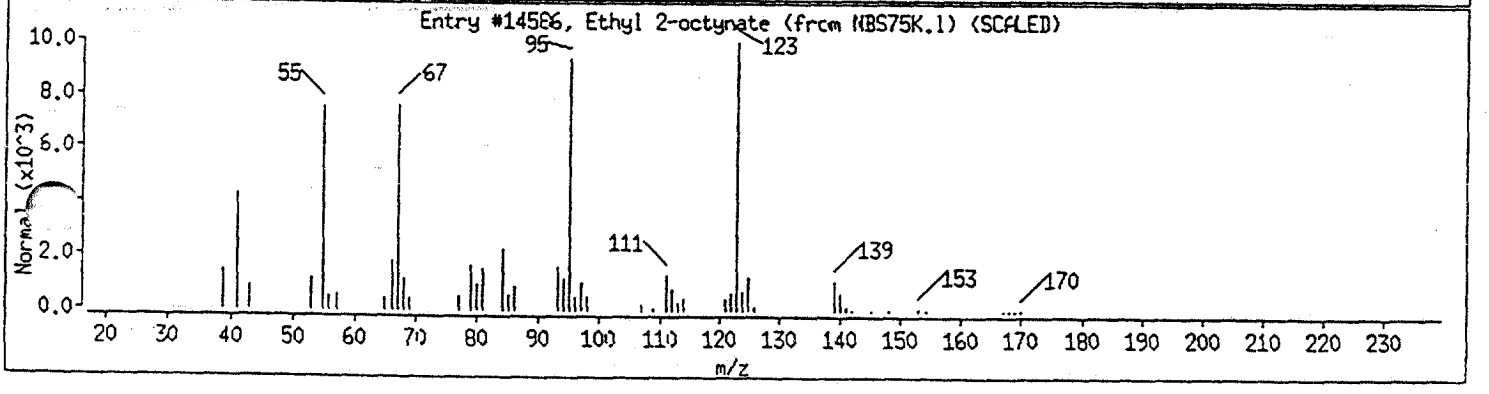
Date : 04-FEB-95 04:54
Instrument : msb.i
Sample ID : clj-dww001
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
2,6-Naphthalenedione, octahydro-1,1,8a-t	57289-17-5	NBS75K.l	24932	64
2-(1-Methylcyclopropyl)thiophene	0-00-0	NBS75K.l	6926	38
Ethyl 2-octynate	10519-20-7	NBS75K.l	14586	37



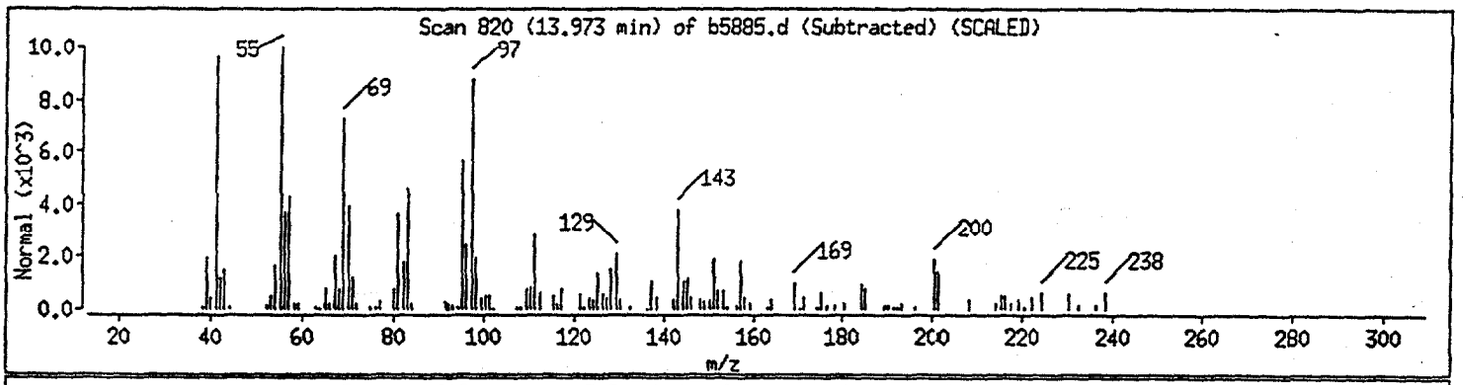


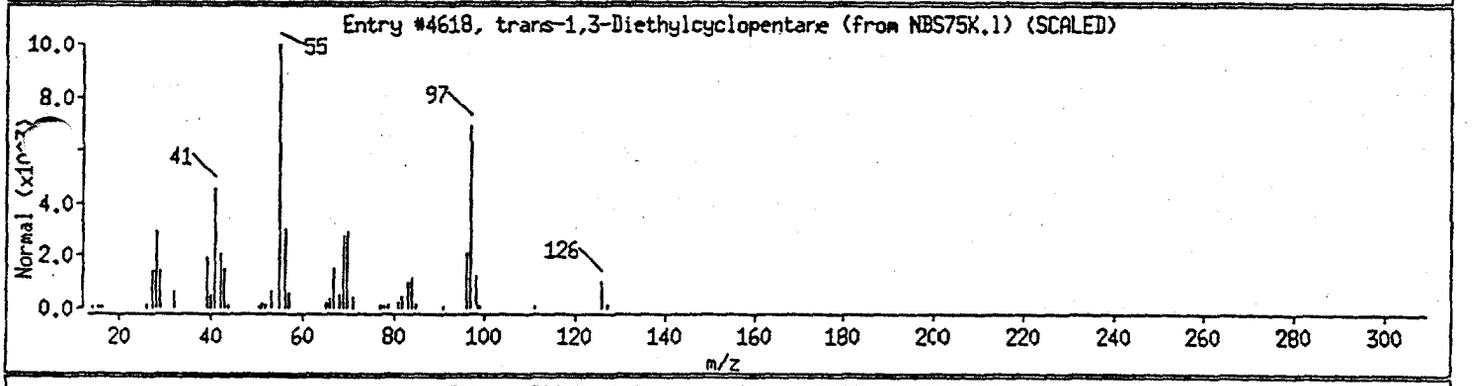


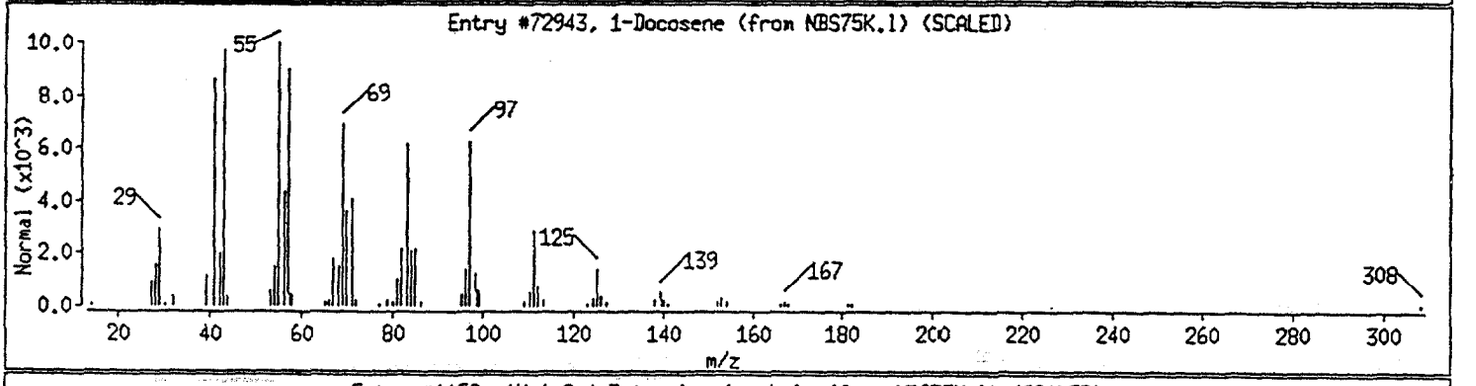


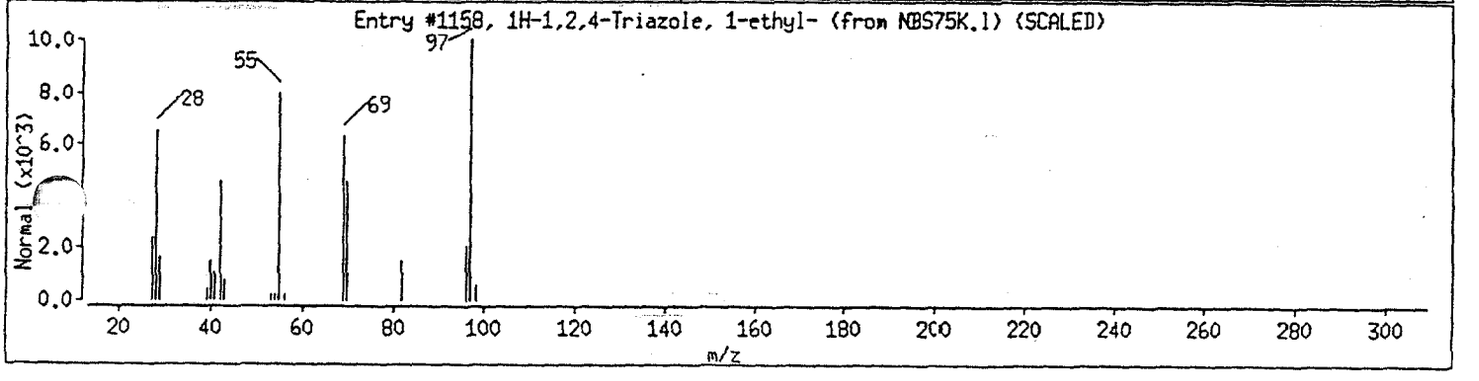
Data File: /chem/aux/msb.i/b0203a95.b/b5885.d
Date : 04-FEB-95 04:54
Instrument : msb.i
Sample ID : clj-dww001
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
trans-1,3-Diethylcyclopentane	0-00-0	NBS75K.l	4618	49
1-Docosene	1599-67-3	NBS75K.l	72943	38
1H-1,2,4-Triazole, 1-ethyl-	16778-70-4	NBS75K.l	1158	38



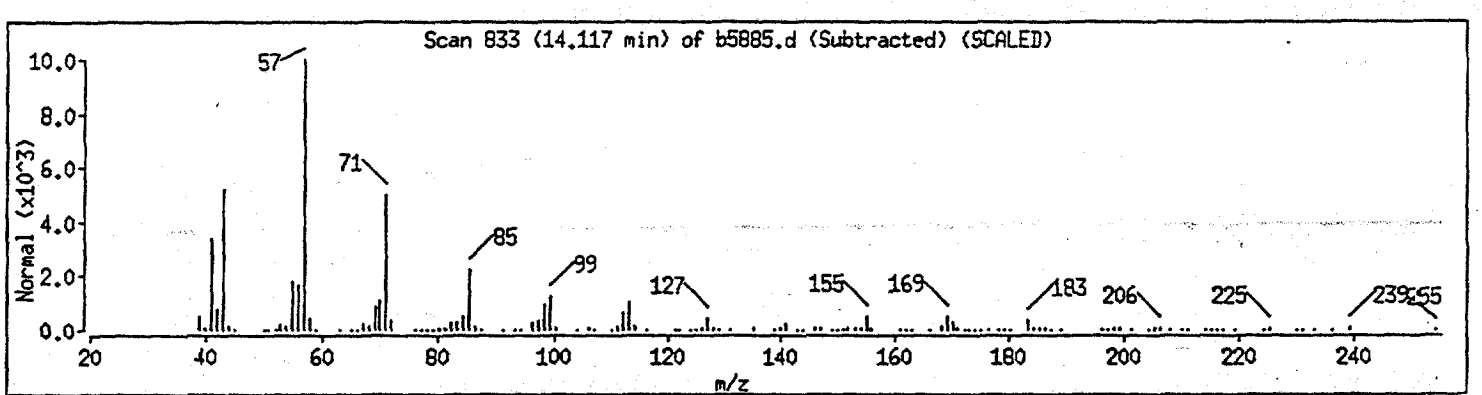


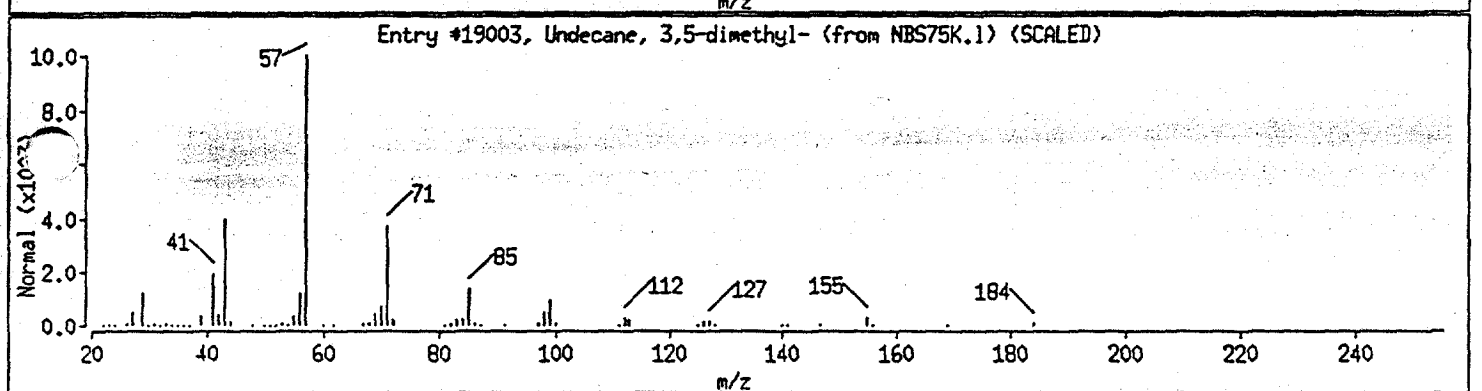


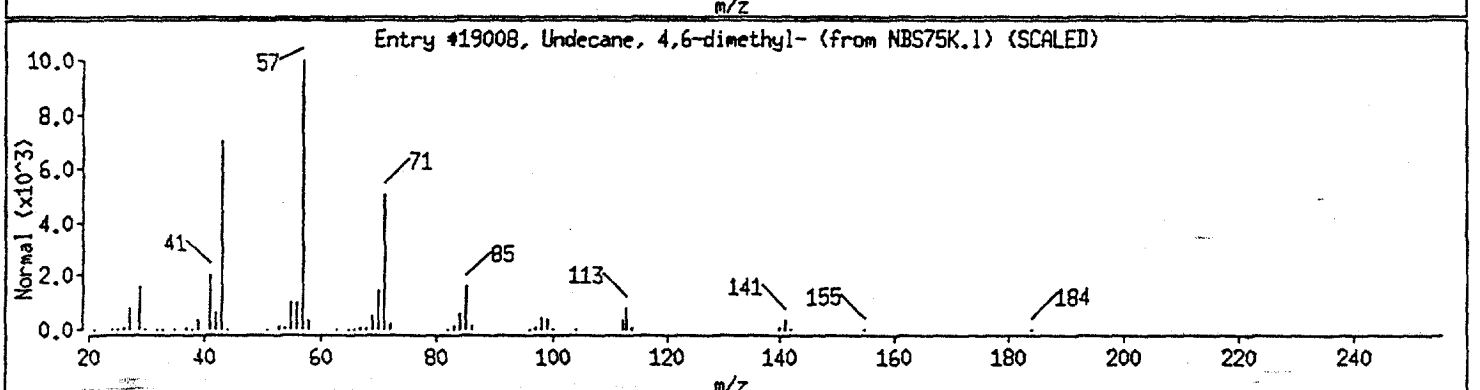


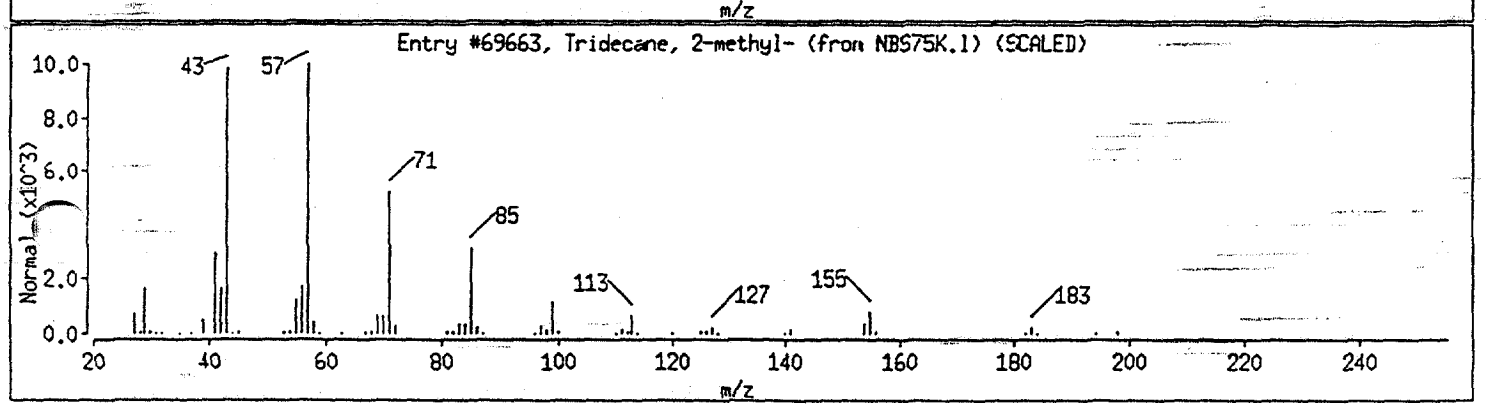
Data File: /chem/aux/msb.i/b0203a95.b/b5885.d
Date : 04-FEB-95 04:54
Instrument : msb.i
Sample ID : clj-dww001
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Undecane, 3,5-dimethyl-	17312-81-1	NBS75K.l	19003	90
Undecane, 4,6-dimethyl-	17312-82-2	NBS75K.l	19008	74
Tridecane, 2-methyl-	1560-96-9	NBS75K.l	69663	70





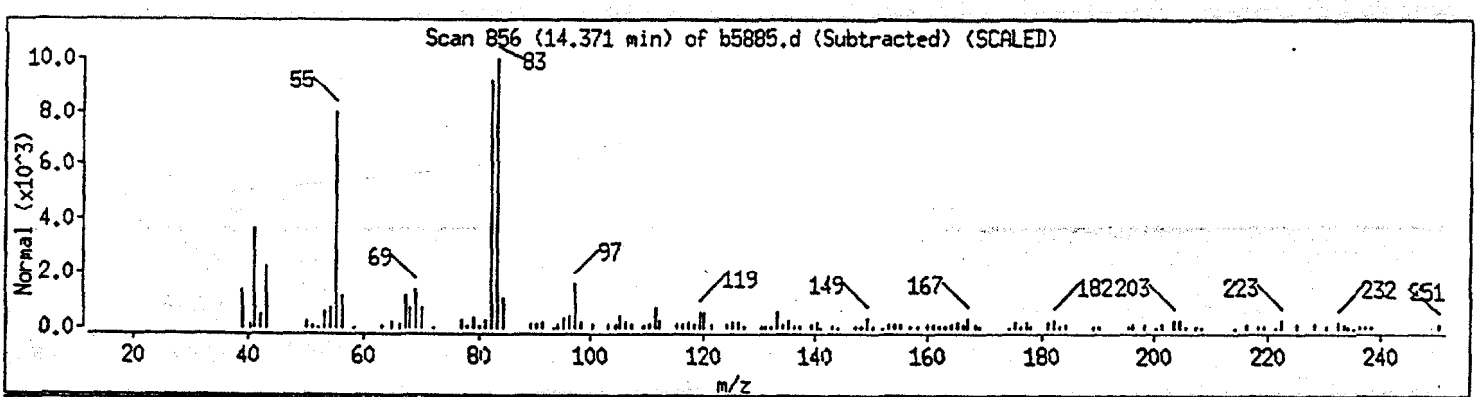


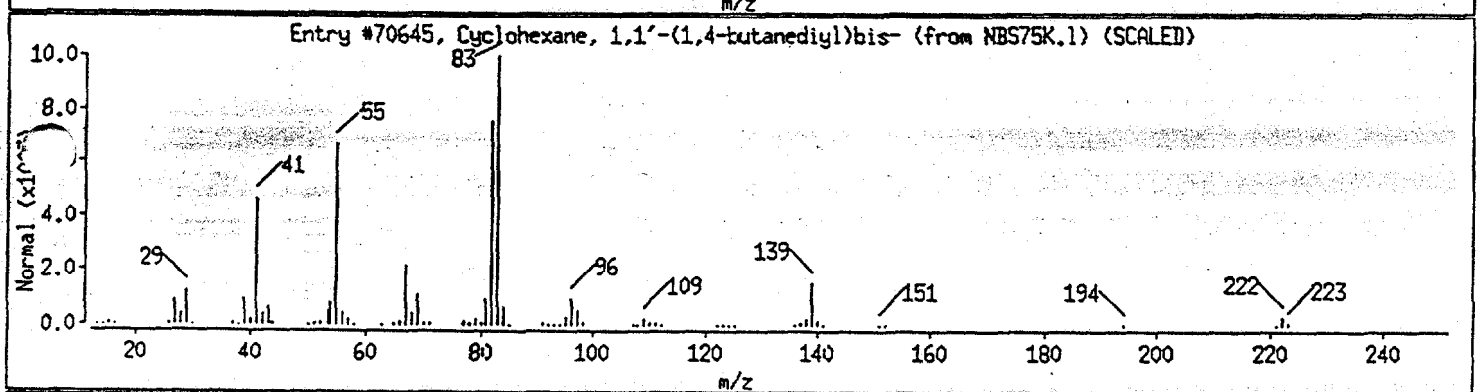


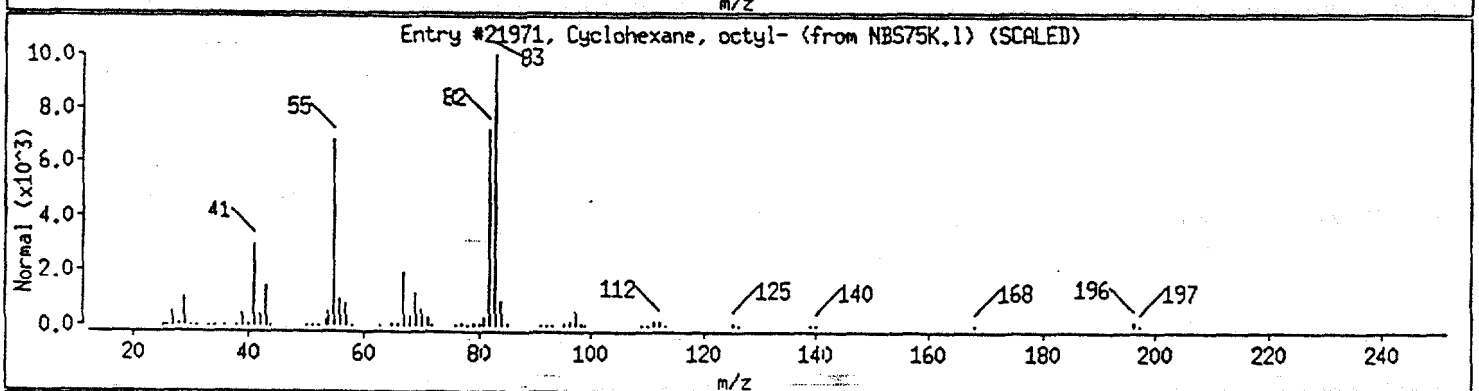
Data File: /chem/aux/msb.i/b0203a95.b/b5885.d

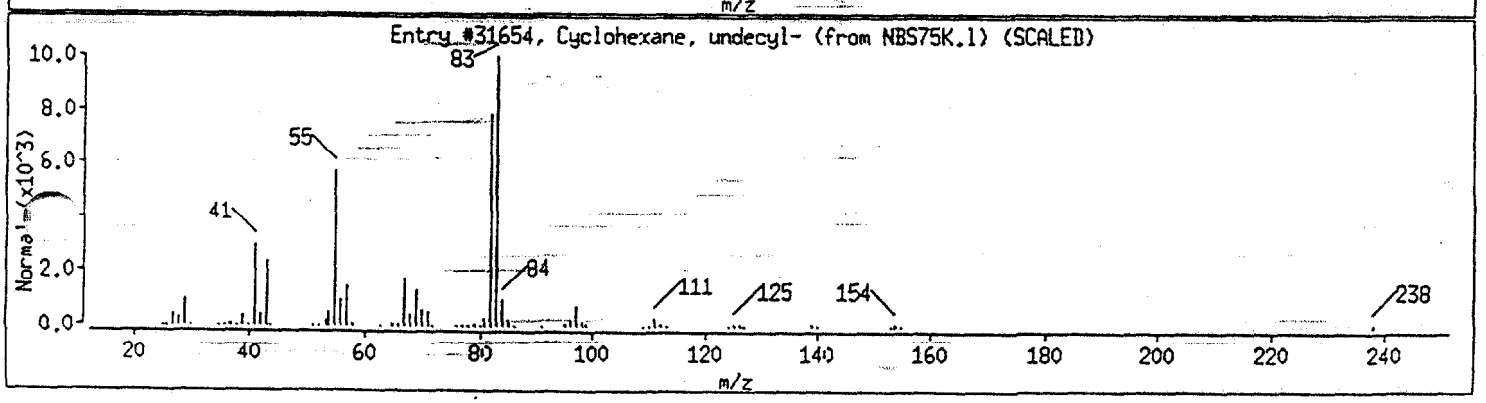
Date : 04-FEB-95 04:54
Instrument : msb.i
Sample ID : clj-dww001
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Cyclohexane, 1,1'-(1,4-butanediyl)bis-	6165-44-2	NBS75K.1	70645	90
Cyclohexane, octyl-	1795-15-9	NBS75K.1	21971	90
Cyclohexane, undecyl-	54105-66-7	NBS75K.1	31654	90



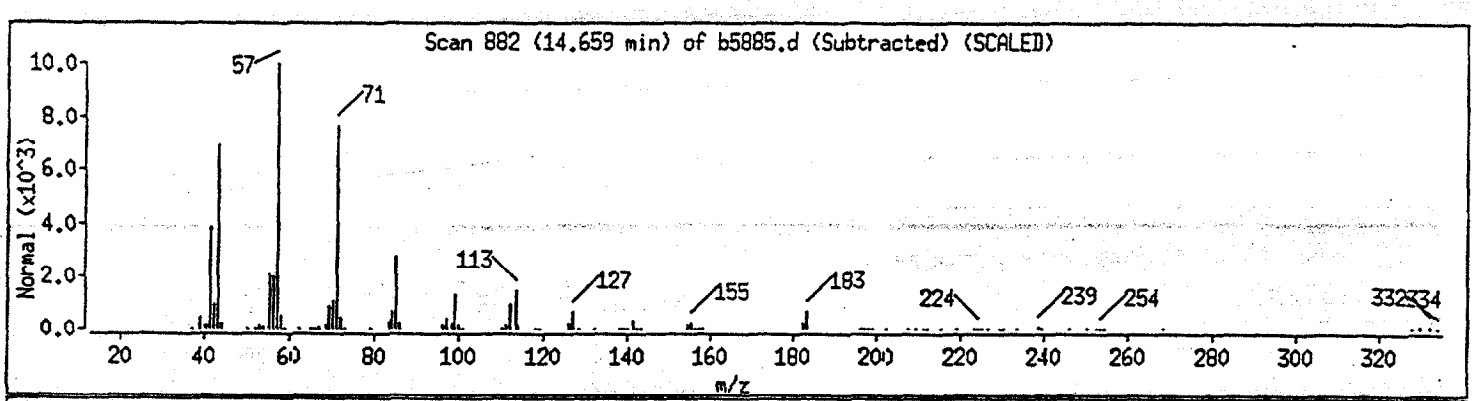


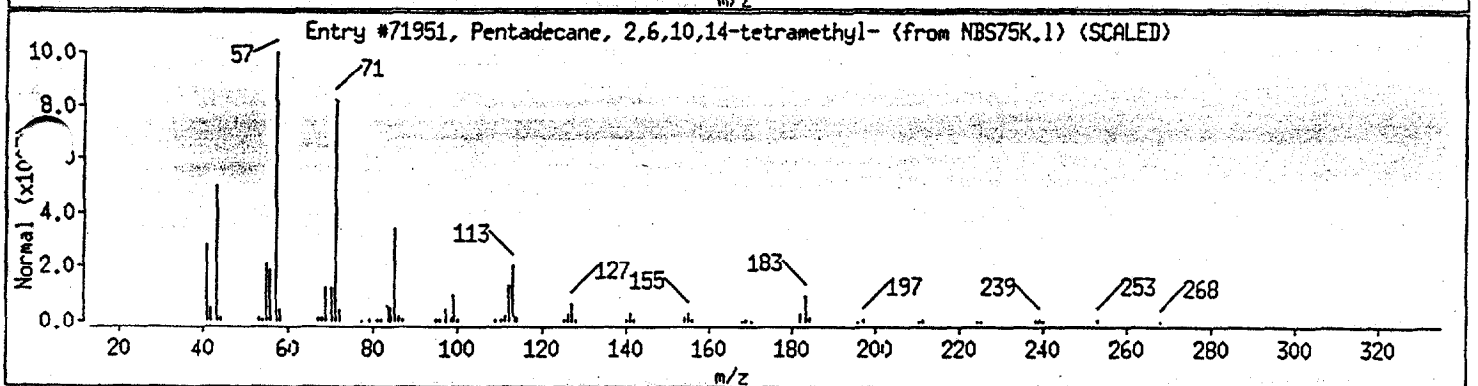


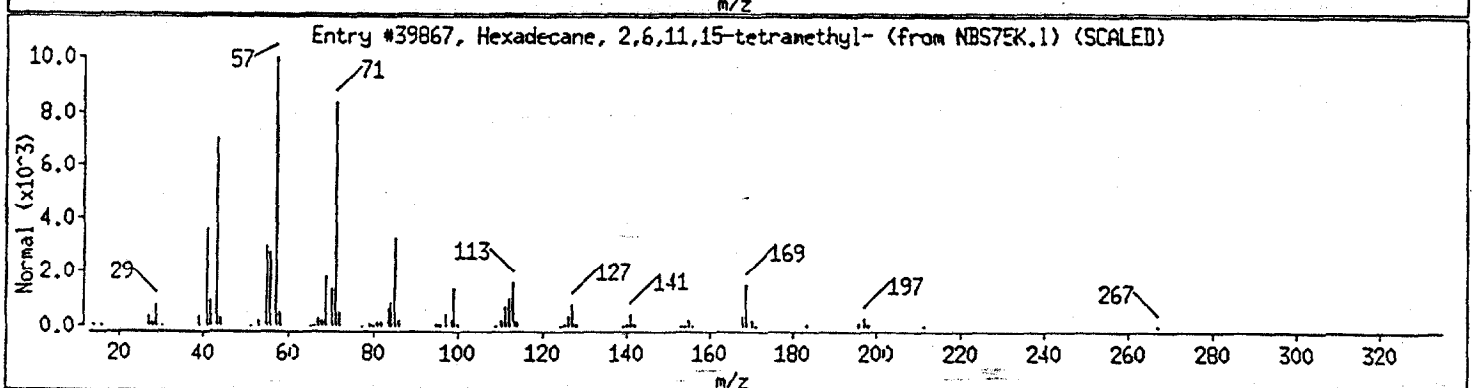


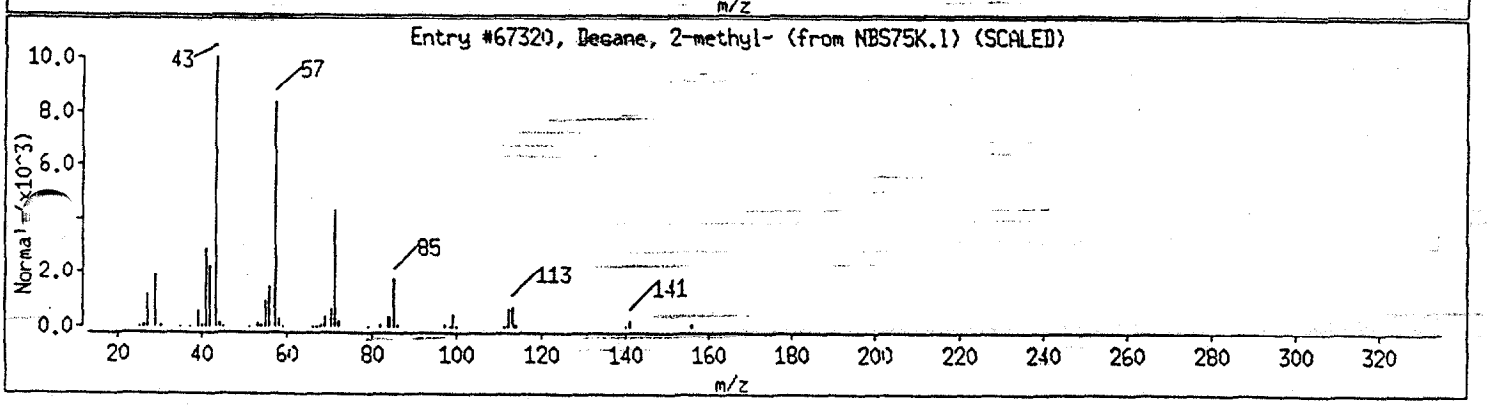
Data File: /chem/aux/msb.i/b0203a95.b/b5885.d
Date : 04-FEB-95 04:54
Instrument : msb.i
Sample ID : clj-dww001
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Pentadecane, 2,6,10,14-tetramethyl-	1921-70-6	NBS75K.1	71951	98
Hexadecane, 2,6,11,15-tetramethyl-	504-44-9	NBS75K.1	39867	91
Decane, 2-methyl-	6975-98-0	NBS75K.1	67320	87



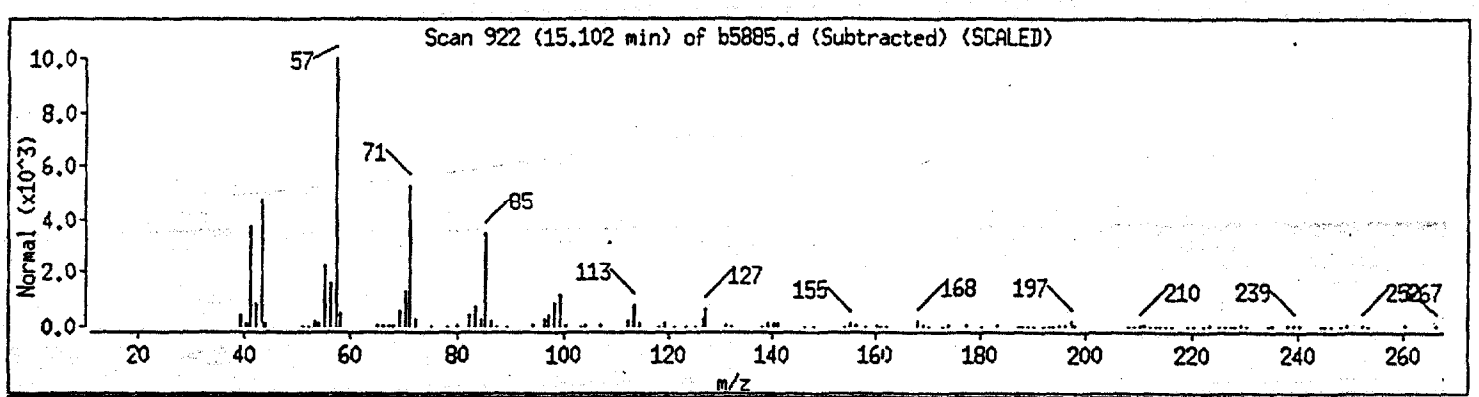


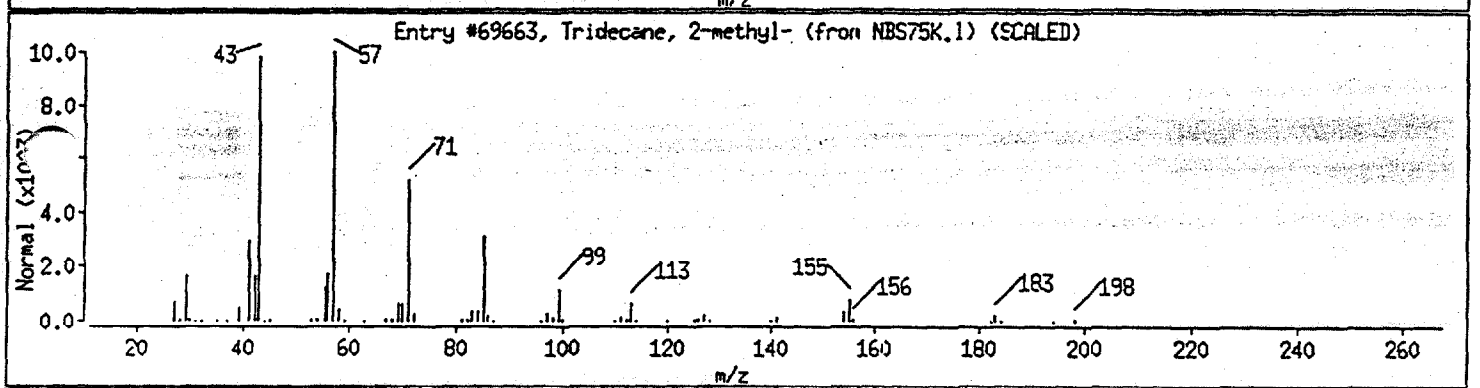


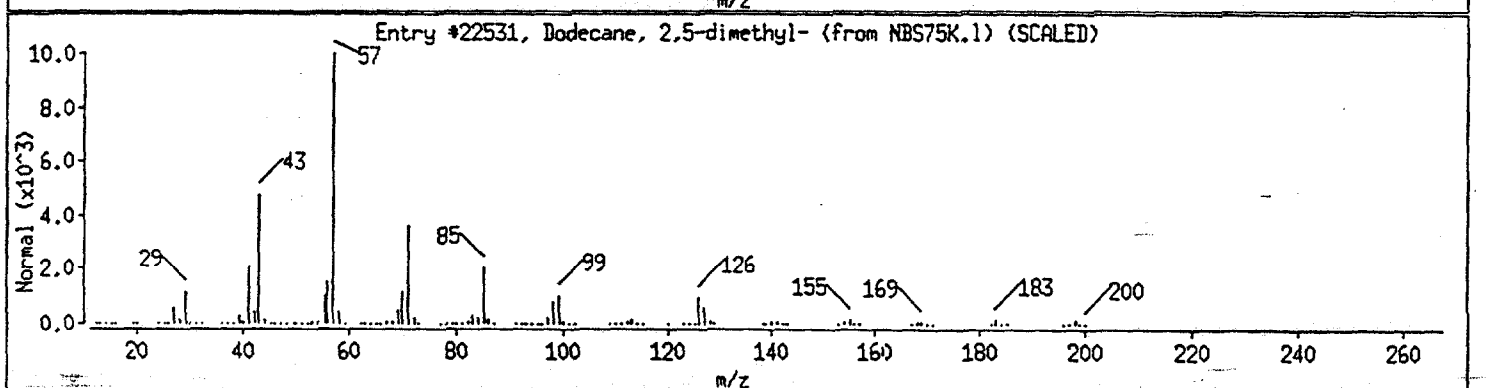


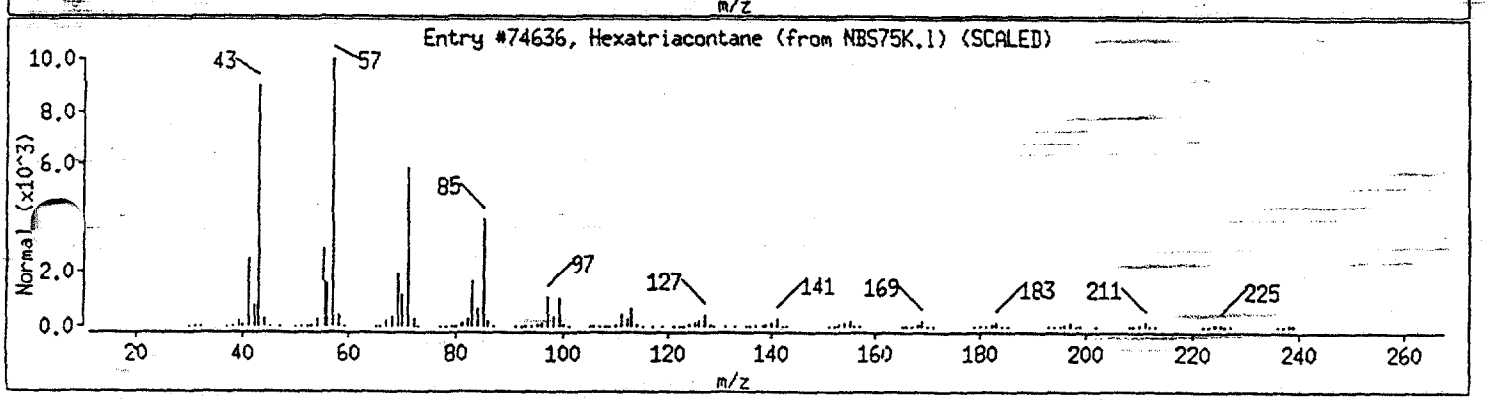
Data File: /chem/aux/msb.i/b0203a95.b/b5885.d
Date : 04-FEB-95 04:54
Instrument : msb.i
Sample ID : clj-dww001
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Tridecane, 2-methyl-	1560-96-9	NBS75K.l	69663	83
Dodecane, 2,5-dimethyl-	56292-65-0	NBS75K.l	22531	83
Hexatriacontane	630-06-8	NBS75K.l	74636	78



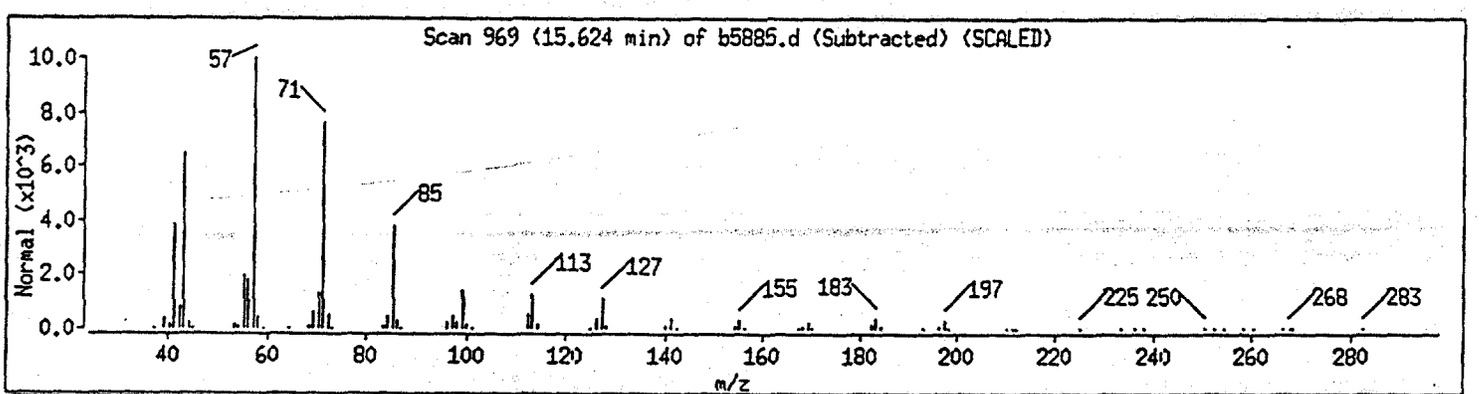


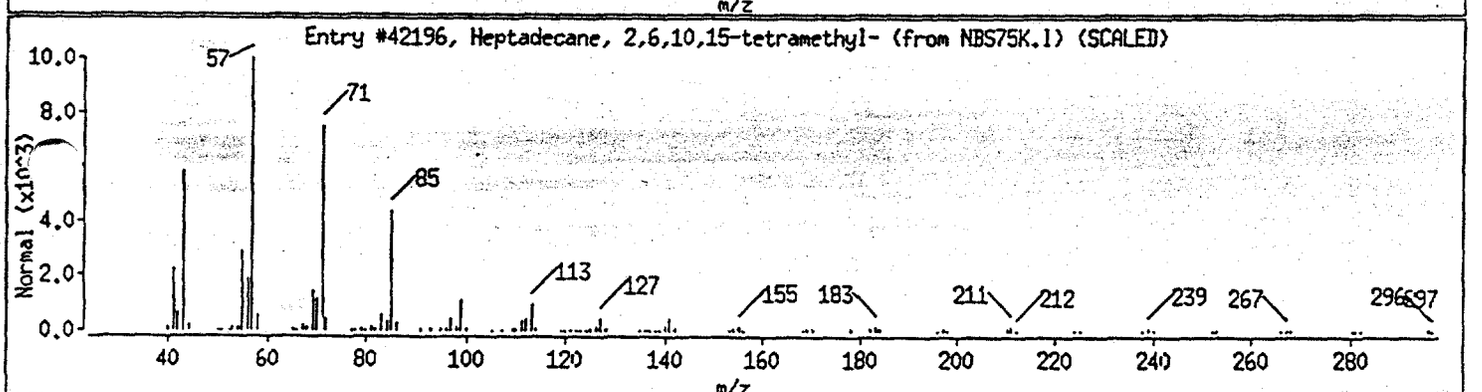


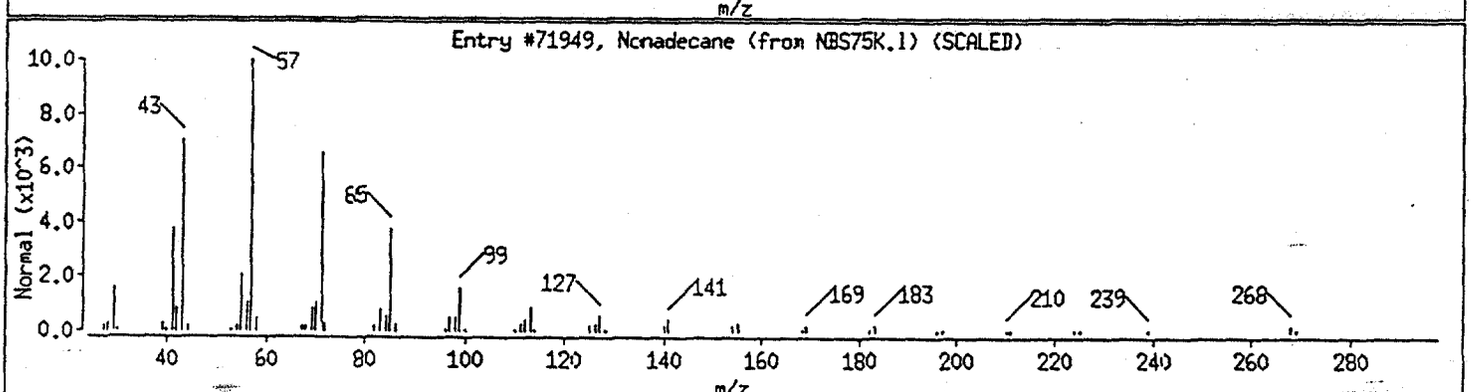


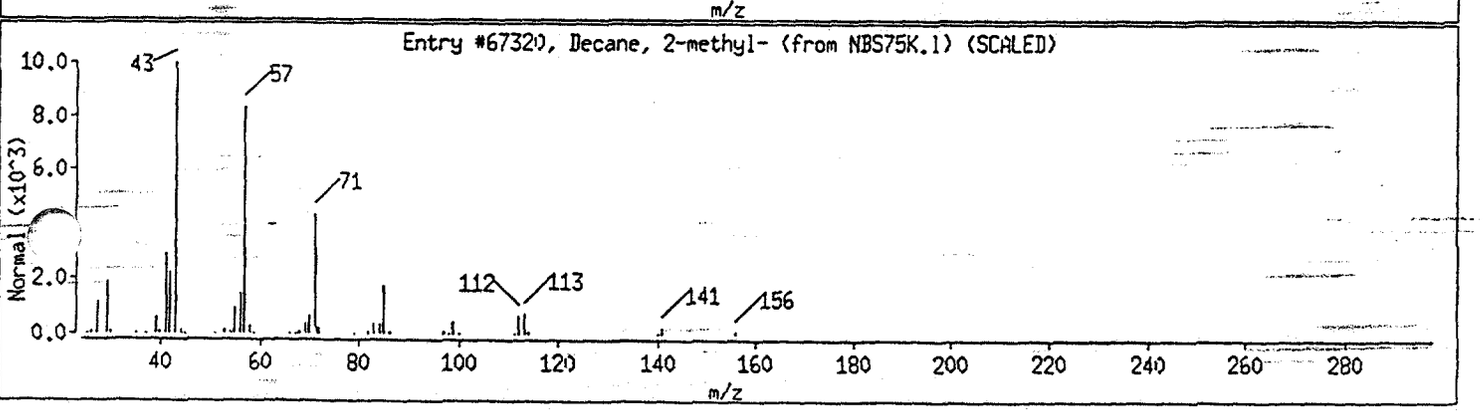
Data File: /chem/aux/msb.i/b0203a95.b/b5885.d
Date : 04-FEB-95 04:54
Instrument : msb.i
Sample ID : clj-dww001
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Heptadecane, 2,6,10,15-tetramethyl-	54833-48-6	NBS75K.1	42196	87
Nonadecane	629-92-5	NBS75K.1	71949	86
Decane, 2-methyl-	6975-98-0	NBS75K.1	67320	83



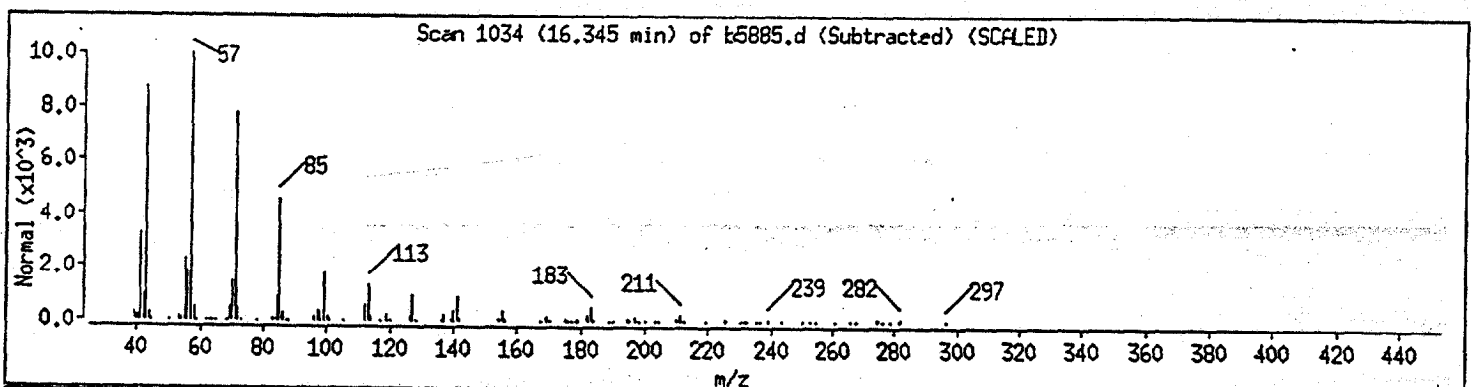


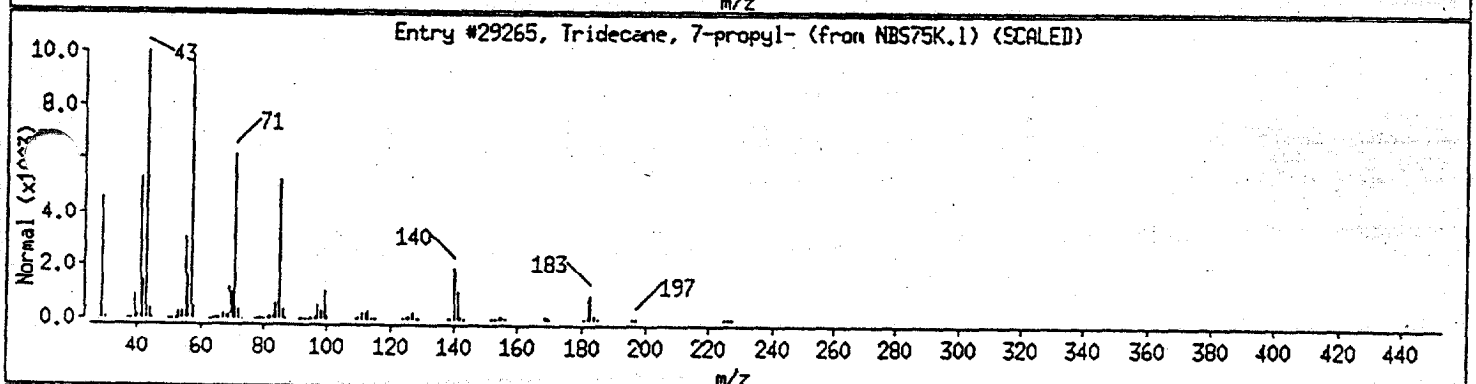


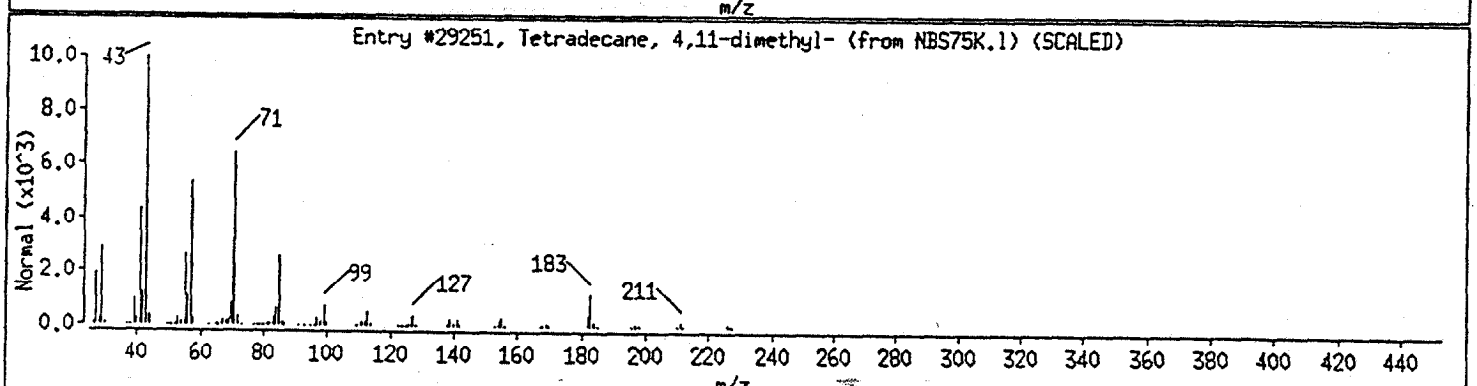


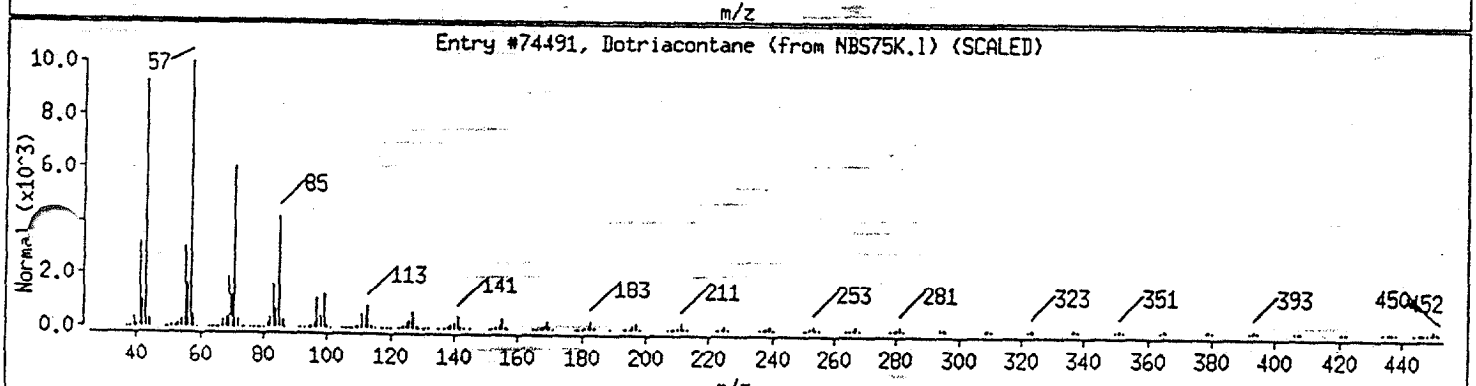
Data File: /chem/aux/msb.i/b0203a95.b/b5885.d
Date : 04-FEB-95 04:54
Instrument : msb.i
Sample ID : clj-dww001
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Tridecane, 7-propyl-	55045-09-5	NBS75K.l	29265	91
Tetradecane, 4,11-dimethyl-	55045-12-0	NBS75K.l	29251	90
Dotriacontane	544-85-4	NBS75K.l	74491	90



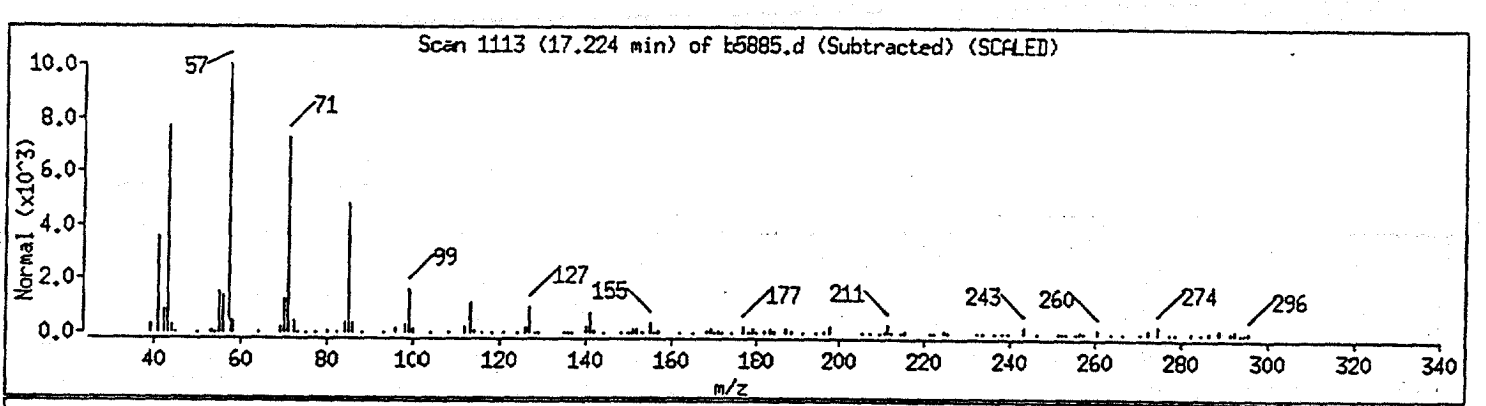


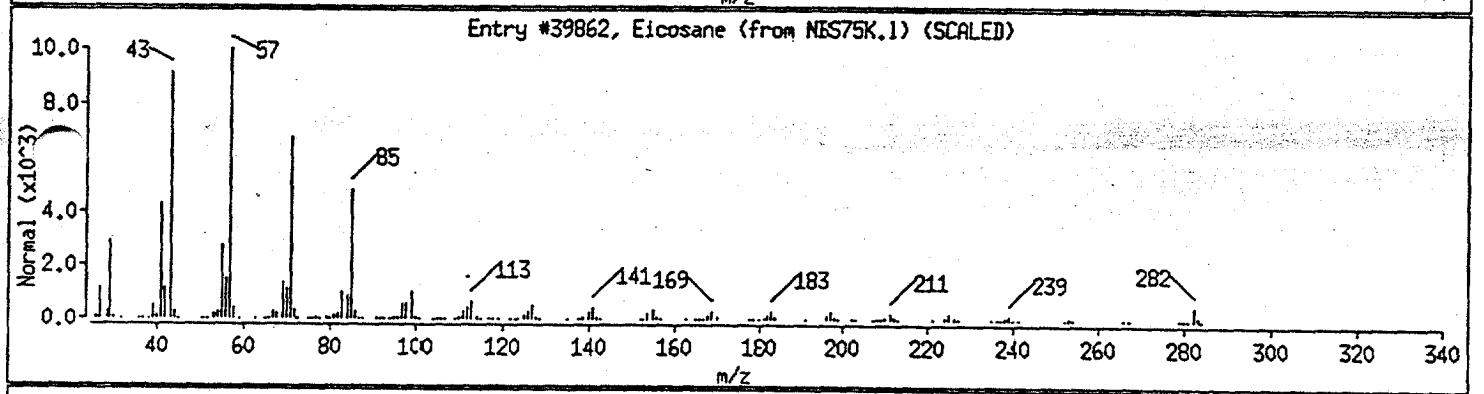


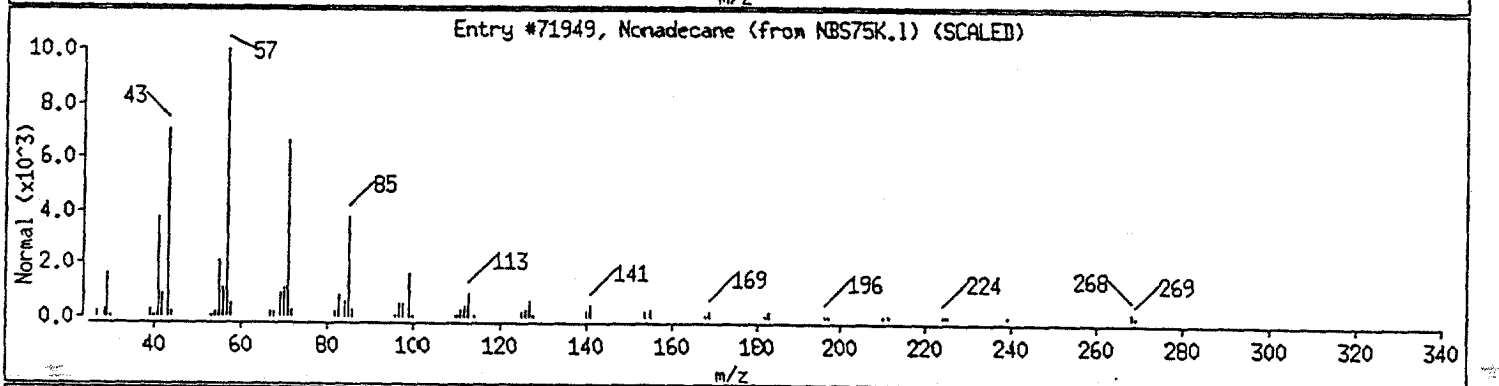


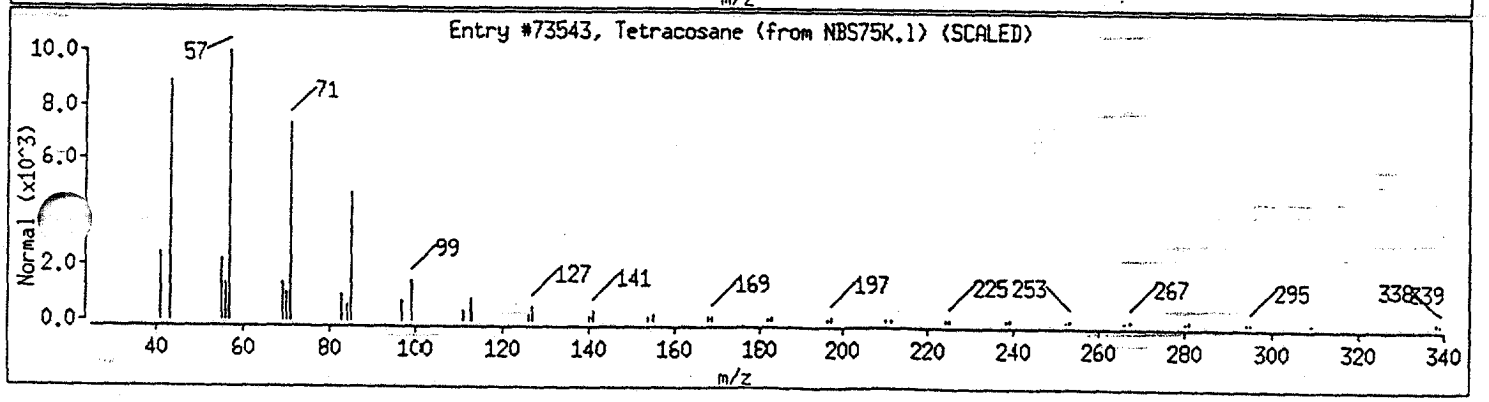
Data File: /chem/aux/msb.i/b0203a95.b/b5885.d
Date : 04-FEB-95 04:54
Instrument : msb.i
Sample ID : clj-dww001
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Eicosane	112-95-8	NBS75K.1	39862	90
Nonadecane	629-92-5	NBS75K.1	71949	87
Tetracosane	646-31-1	NBS75K.1	73543	86



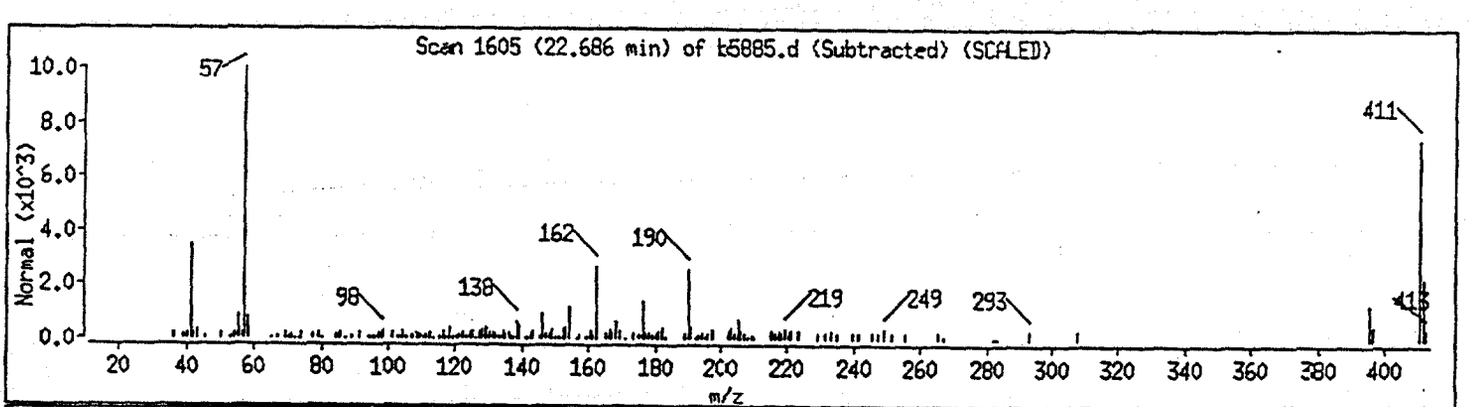


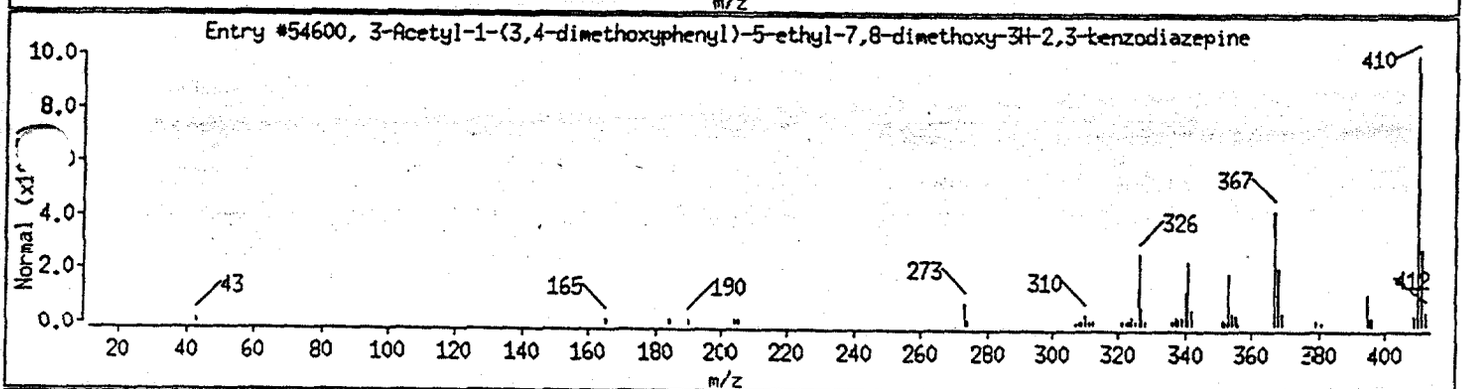


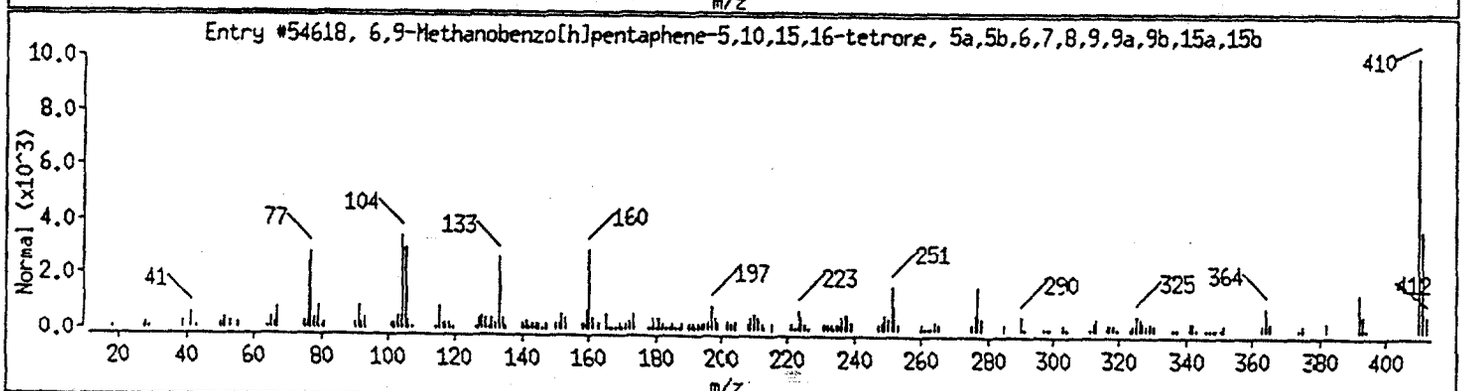


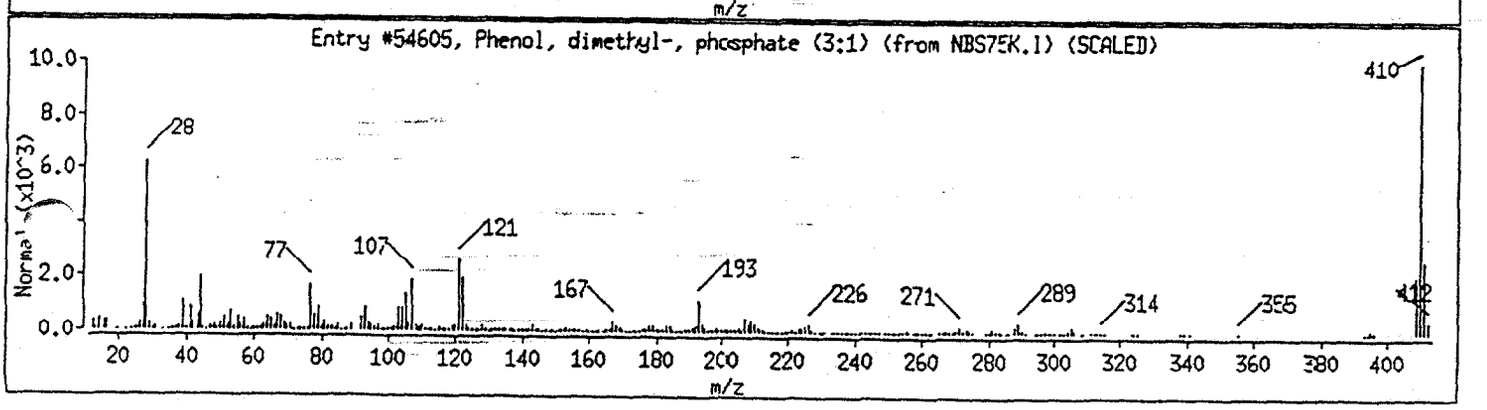
Data File: /chem/aux/msb.i/b0203a95.b/b5885.d
Date : 04-FEB-95 04:54
Instrument : msb.i
Sample ID : clj-dww001
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
3-Acetyl-1-(3,4-dimethoxyphenyl)-5-ethyl	90140-65-1	NBS75K.l	54600	47
6,9-Methanobenzo[h]pentaphene-5,10,15,16	57427-50-6	NBS75K.l	54618	43
Phenol, dimethyl-, phosphate (3:1)	25155-23-1	NBS75K.l	54605	37









2C

WATER SEMIVOLATILE SURROGATE RECOVERY

0087

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DWW-01

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	SBLK01	53	43	53	31	45	52			0
02	SSPK01	72	58	56	42	56	74			0
03	CLJ-DWW001	91 D	102 D	88 D	56 D	78 D	76 D			0

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(35-114)	
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)	
S3 (TPH)	= Terphenyl-d14	(33-141)	
S4 (PHL)	= Phenol-d5	(10-110)	
S5 (2FP)	= 2-Fluorophenol	(21-110)	
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)	
S7 (2CP)	= 1,2,4,5-Tetrachlorobenz		(advisory)
S8 (DCB)	= 1-Methylnaphthalene-d10		(advisory)

\# Column to be used to flag recovery values
* Values outside of contract required QC limits
D System Monitoring compound diluted out

3D

WATER SEMIVOLATILE BLANK SPIKE RECOVERY

0088

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DWW-01

Matrix Spike - EPA Sample No.: SSPK01

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC LIMITS REC.
Phenol	75	0	25	33	12-110
2-Chlorophenol	75	0	44	59	27-123
1,4-Dichlorobenzene	50	0	24	48	36- 97
N-Nitroso-di-n-propylami	50	0	34	68	41-116
1,2,4-Trichlorobenzene	50	0	25	50	39- 98
4-Chloro-3-methylphenol	75	0	49	65	23- 97
Acenaphthene	50	0	28	56	46-118
4-Nitrophenol	75	0	31	41	10- 80
2,4-Dinitrotoluene	50	0	35	70	24- 96
Pentachlorophenol	75	0	69	92	9-103
Pyrene	50	0	31	62	26-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

0089 EPA SAMPLE NO.

SBLK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DWW-01

Lab File ID: B5883 Lab Sample ID: N1C50110C

Instrument ID: SB Date Extracted: 01/27/95

Matrix: (soil/water) WATER Date Analyzed: 02/04/95

Level: (low/med) LOW Time Analyzed: 03:25

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SSPK01	N1C50110CS	B5884	02/04/95
02	CLJ-DWW001	JN7550C	B5885	02/04/95

COMMENTS:

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ASC Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DWW-01

Lab File ID: b5877.d DFTPP Injection Date: 2-3-95

Instrument ID: msb.i DFTPP Injection Time: 2327

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	46.1
68	Less than 2.0% of mass 69	0.0 ( )1
69	Mass 69 relative abundance	54.1
70	Less than 2.0% of mass 69	0.0 ( )1
127	25.0 - 75.0% of mass 198	43.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	16.7
365	Greater than 0.75% of mass 198	1.7
441	Present, but less than mass 443	81.1
442	40.0 - 110.0% of mass 198	55.1
443	15.0 - 24.0% of mass 442	19.7 ( )2

1-Value is % mass 69 2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	INITIAL CALIBRATION	SSTD 20	b5878.d	2-3-95	2345
02		SSTD 50	b5879.d	2-4-95	0029
03		SSTD 80	b5880.d	2-4-95	0113
04		SSTD 120	b5881.d	2-4-95	0157
05	↓	SSTD 160	b5882.d	2-4-95	0241
06	METHOD BLANK	NIC50110C	b5883.d	2-4-95	0325
07	METHOD SPIKE	NIC50110CS	b5884.d	2-4-95	0410
08	CLJ-DWW-01	JN7550C	b5885.d	2-4-95	0454
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22					

Report Date : 04-Feb-1995 07:02

Analytical Services Corp.

INITIAL CALIBRATION DATA

Start Cal Date : 03-FEB-95 23:45
End Cal Date : 04-FEB-95 02:41
Quant Method : ISTD
Cal Curve Type : Averaged
Target Version : Target 3.00
Integrator : HP RTE
Method file : /chem/aux/msb.i/b0203a95.b/bnaclpb.m
Cal Date : 04-Feb-1995 06:58

Calibration File Names:
Level 1: /chem/aux/msb.i/b0203a95.b/b5878.d
Level 2: /chem/aux/msb.i/b0203a95.b/b5879.d
Level 3: /chem/aux/msb.i/b0203a95.b/b5880.d
Level 4: /chem/aux/msb.i/b0203a95.b/b5881.d
Level 5: /chem/aux/msb.i/b0203a95.b/b5882.d

	Compound	20 Level 1	50 Level 2	80 Level 3	120 Level 4	160 Level 5	RRF	% RSD/R^2	
2	N-Nitrosodimethylamine	0.77111	0.68425	0.67185	0.64526	0.62814	0.68012	8.147	
1	Pyridine	1.24175	1.13182	1.09449	1.06087	1.04649	1.11508	7.003	
5	Phenol	1.30353	1.16431	1.07769	1.04102	0.93456	1.10422	12.550	
6	bis(2-Chloroethyl)ether	2.72766	2.27321	2.07307	1.91796	1.75079	2.14854	17.539	
8	2-Chlorophenol	1.17003	1.03595	0.96828	0.93784	0.86193	0.99480	11.680	
9	1,3-Dichlorobenzene	1.36206	1.21692	1.13559	1.08638	1.00456	1.16110	11.733	
11	1,4-Dichlorobenzene	1.41430	1.20639	1.13302	1.07044	0.99284	1.16340	13.824	
13	1,2-Dichlorobenzene	1.29171	1.06844	0.94617	0.84599	0.72340	0.97514	22.339	<-
14	2-Methylphenol	0.97812	0.87550	0.84268	0.81463	0.73899	0.84999	10.306	
15	2,2'-oxybis(1-Chloropropene)	2.01650	1.71451	1.57553	1.50129	1.36239	1.63404	15.226	
16	4-Methylphenol	1.03239	0.93742	0.90491	0.89121	0.85078	0.92334	7.410	
17	N-Nitroso-di-n-propylamine	0.88635	0.79967	0.75882	0.75383	0.71272	0.78228	8.415	
18	Hexachloroethane	0.56761	0.49975	0.48091	0.46228	0.43051	0.48821	10.491	
20	Nitrobenzene	0.39531	0.35181	0.32843	0.30129	0.28310	0.33199	13.257	
21	Isophorone	0.78489	0.71118	0.66403	0.62444	0.58756	0.67442	11.415	
22	2-Nitrophenol	0.22020	0.20910	0.19801	0.18979	0.17589	0.19860	8.613	
23	2,4-Dimethylphenol	0.35105	0.32568	0.30179	0.28314	0.25480	0.30329	12.272	
24	bis(2-Chloroethoxy)methane	0.50280	0.44671	0.40522	0.37834	0.33662	0.41394	15.417	
25	2,4-Dichlorophenol	0.32403	0.30549	0.29530	0.27990	0.26422	0.29379	7.838	
26	1,2,4-Trichlorobenzene	0.39849	0.35285	0.33018	0.30689	0.27636	0.33296	13.911	
28	Naphthalene	1.04535	0.86424	0.76814	0.66337	0.59269	0.78676	22.568	<-
29	4-Chloroaniline	0.59342	0.50331	0.46325	0.41111	0.36657	0.46753	18.684	
30	Hexachlorobutadiene	0.18278	0.18346	0.16572	0.16856	0.15129	0.17036	7.843	
31	4-Chloro-3-methylphenol	0.29682	0.28738	0.28958	0.27821	0.26285	0.28297	4.616	
32	2-Methylnaphthalene	0.66060	0.57864	0.52859	0.48961	0.43535	0.53856	15.986	
33	1-Methylnaphthalene	1.97104	1.73800	1.61758	1.56981	1.41307	1.66190	12.540	
34	Hexachlorocyclopentadiene	0.03823	0.08981	0.12464	0.14911	0.13942	0.10824	41.710	

Analytical Services Corp.

INITIAL CALIBRATION DATA

Start Cal Date : 03-FEB-95 23:45
End Cal Date : 04-FEB-95 02:41
Quant Method : ISTD
Cal Curve Type : Averaged
Target Version : Target 3.00
Integrator : HP RTE
Method file : /chem/aux/msb.i/b0203a95.b/bnaclpb.m
Cal Date : 04-Feb-1995 06:58

	Compound	20 Level 1	50 Level 2	80 Level 3	120 Level 4	160 Level 5	RRF	% RSD/R^2	
35	2,4,6-Trichlorophenol	0.36942	0.36588	0.34842	0.33927	0.31698	0.34799	6.125	
36	2,4,5-Trichlorophenol	0.36318	0.38935	0.37877	0.36853	0.32342	0.36465	6.892	
38	2-Chloronaphthalene	1.13328	0.98840	0.89192	0.83806	0.74052	0.91844	16.320	
39	2-Nitroaniline	0.33116	0.33802	0.33028	0.32914	0.31353	0.32843	2.746	
40	Dimethylphthalate	1.33555	1.19995	1.09805	1.06890	0.96079	1.13265	12.524	
41	2,6-Dinitrotoluene	0.32995	0.32159	0.31149	0.30841	0.28588	0.31146	5.344	
42	Acenaphthylene	1.66190	1.44987	1.32643	1.25405	1.10972	1.36039	15.341	
43	3-Nitroaniline	0.32606	0.32604	0.32514	0.32662	0.30493	0.32176	2.928	
45	Acenaphthene	1.13882	0.95070	0.83334	0.75610	0.63502	0.86280	22.298	<-
46	2,4-Dinitrophenol	+++++	0.10007	0.13332	0.15066	0.15050	0.13363	17.819	
48	Dibenzofuran	1.55068	1.32887	1.20040	1.10524	0.94995	1.22703	18.559	
47	4-Nitrophenol	0.09027	0.08782	0.09893	0.10679	0.09904	0.09657	7.896	
49	2,4-Dinitrotoluene	0.44795	0.43673	0.42182	0.40957	0.37339	0.41789	6.897	
52	Fluorene	1.21195	1.01863	0.88058	0.79194	0.70758	0.92214	21.554	<-
50	Diethylphthalate	1.34923	1.20533	1.12185	1.02975	0.92574	1.12638	14.419	
51	4-Chlorophenyl-phenylether	0.66399	0.58606	0.52767	0.49360	0.43208	0.54068	16.398	
53	4-Nitroaniline	0.31125	0.29808	0.27389	0.26749	0.25738	0.28162	7.931	
54	4,6-Dinitro-2-methylphenol	0.11773	0.14220	0.15071	0.15533	0.14456	0.14211	10.252	
55	N-Nitrosodiphenylamine	0.55131	0.47814	0.42124	0.39369	0.34301	0.43748	18.328	
57	4-Bromophenyl-phenylether	0.26408	0.23611	0.21514	0.21029	0.19041	0.22321	12.561	
58	Hexachlorobenzene	0.34914	0.30569	0.28842	0.27698	0.25352	0.29475	12.154	
59	Pentachlorophenol	+++++	0.09327	0.10183	0.12638	0.13234	0.11345	16.617	
61	Phenanthrene	1.14384	0.94972	0.85267	0.78352	0.69357	0.88466	19.511	
62	Anthracene	1.09991	0.94251	0.84161	0.75590	0.67094	0.86218	19.344	
63	Carbazole	1.03348	0.90305	0.81015	0.75281	0.67778	0.83545	16.511	
64	Di-n-butylphthalate	1.48075	1.32886	1.21225	1.09941	0.97937	1.22013	15.995	
65	Fluoranthene	1.26364	1.08846	0.98712	0.92507	0.84104	1.02107	15.955	
66	Benzidine	0.26575	0.21829	0.24859	+++++	+++++	0.24421	9.840	
67	Pyrene	1.37514	1.17630	1.11338	0.98974	0.88057	1.10703	17.006	
69	Butylbenzylphthalate	0.72921	0.65004	0.63713	0.57064	0.50033	0.61747	13.990	
70	Benzo(a)anthracene	1.08974	0.97658	0.94224	0.88406	0.79569	0.93766	11.645	
71	3,3'-Dichlorobenzidine	0.37300	0.37332	0.38575	0.38499	0.35862	0.37513	2.952	
73	Chrysene	1.01108	0.90237	0.87308	0.77584	0.71098	0.85467	13.587	
74	bis(2-Ethylhexyl)phthalate	1.03761	0.91843	0.88128	0.76973	0.66258	0.85393	16.803	

Analytical Services Corp.

INITIAL CALIBRATION DATA

Start Cal Date : 03-FEB-95 23:45
End Cal Date : 04-FEB-95 02:41
Quant Method : ISTD
Cal Curve Type : Averaged
Target Version : Target 3.00
Integrator : HP RTE
Method file : /chem/aux/msb.i/b0203a95.b/bnaclpb.m
Cal Date : 04-Feb-1995 06:58

	Compound	20 Level 1	50 Level 2	80 Level 3	120 Level 4	160 Level 5	RRF	% RSD/R^2
	75 Di-n-octylphthalate	1.69625	1.59589	1.46933	1.40697	1.23703	1.48109	11.920
	76 Benzo(b)fluoranthene	1.09651	0.98626	1.00295	1.01986	1.00097	1.02131	4.278
	77 Benzo(k)fluoranthene	1.21737	1.08021	0.98279	0.96598	0.84877	1.01902	13.544
	78 Benzo(a)pyrene	0.92066	0.89866	0.87029	0.88955	0.83738	0.88331	3.557
	80 Indeno(1,2,3-cd)pyrene	0.98993	0.96973	0.92816	0.94532	0.85345	0.93732	5.595
	81 Dibenzo(a,h)anthracene	0.76401	0.80523	0.74731	0.78217	0.73277	0.76630	3.724
	82 Benzo(g,h,i)perylene	0.83424	0.82012	0.80469	0.80481	0.73933	0.80064	4.547
|S	3 2-Fluorophenol	1.08223	0.98944	0.97263	0.97107	0.93100	0.98927	5.683
|S	4 Phenol-d5	1.26528	1.11976	1.05421	1.02359	0.93002	1.07857	11.565
|S	7 2-Chlorobenzene-D4	1.06444	0.96897	0.93639	0.89208	0.81732	0.93584	9.793
|S	12 1,2-Dichlorobenzene-D4	0.93948	0.82084	0.72686	0.67430	0.59970	0.75224	17.555
|S	19 Nitrobenzene-d5	0.43112	0.37910	0.36273	0.33687	0.31984	0.36593	11.755
|S	37 2-Fluorobiphenyl	1.26502	1.08167	0.98385	0.90591	0.77937	1.00316	18.290
|S	56 2,4,6-Tribromophenol	0.18371	0.18231	0.18685	0.19061	0.19178	0.18705	2.215
|S	68 Terphenyl-d14	1.02788	0.88134	0.85444	0.74190	0.67135	0.83538	16.411

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ASC Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DWW-01

Lab File ID (Standard): b5879.d Date Analyzed: 2-4-95

Instrument ID: msb.i Time Analyzed: 0029

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	292477	7.84	878477	9.75	556478	13.04
	UPPER LIMIT	584954	8.34	1756954	10.25	1112956	13.54
	LOWER LIMIT	146238	7.34	439238	9.25	278239	12.54
	EPA SAMPLE NO.						
01	METHOD BLANK	383325	7.85	1093493	9.76	692875	13.05
02	METHOD SPIKE	370047	7.85	1113974	9.76	702237	13.04
03	CLJ-DWW-01	319392	7.85	950257	9.76	597340	13.05
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

page __ of __

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0095

Lab Name: ASC Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DKW-01

Lab File ID (Standard): b5879.d Date Analyzed: 2-4-95

Instrument ID: ms6.i Time Analyzed: 0029

	IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD	894639	16.05	865873	21.64	862878	25.96
UPPER LIMIT	1789278	16.55	1731746	22.14	1725756	26.46
LOWER LIMIT	447319	15.55	432936	21.14	431439	25.46
EPA SAMPLE NO.						
01 METHOD SPIKE BLANK	1106187	16.05	1095815	21.64	1145223	25.96
02 METHOD SPIKE	1129266	16.06	1123778	21.66	1211725	25.96
03 CLJ-DKW-01	843770	16.06	938785	21.64	972043	25.95
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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

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

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0096 EPA SAMPLE NO.

SBLK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DWW-01

Matrix: (soil/water) WATER Lab Sample ID: N1C50110C

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B5883

Level: (low/med) LOW Date Received: N/A

% Moisture: _____ decanted: (Y/N) N Date Extracted: 01/27/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 02/04/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	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
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: _____ Case No.: 15226N SAS No.: _____ SDG No.: CLJ-DWW-01

Matrix: (soil/water) WATER Lab Sample ID: N1C50110C

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B5883

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

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 01/27/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 02/04/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
101-55-3	4-Bromophenyl-phenylether	10	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-2	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
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	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

1F

0098

EPA SAMPLE NO.

SBLK01

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: _____ Case No.: 15226N SAS No.: _____ SDG No.: CLJ-DWW-01

Matrix: (soil/water) WATER Lab Sample ID: N1C50110C

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B5883

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

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 01/27/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 02/04/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

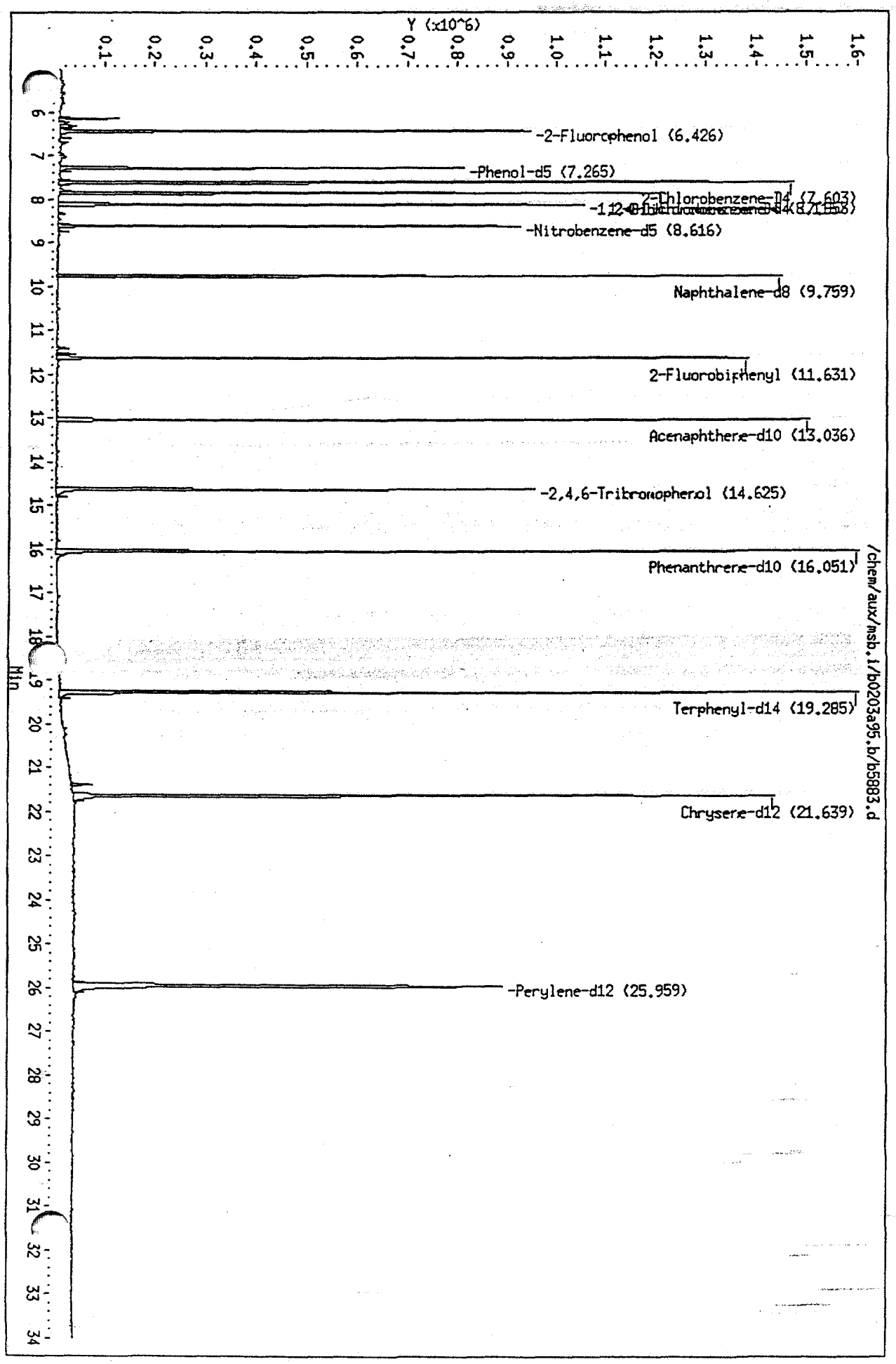
Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: /chem/aux/msb.i/b0203a95.b/b5883.d
Date : 04-FEB-95 03:25
Instrument : msb.i
Sample ID : method blank
Column phase : J&W DB-5
Volume Injected (uL) : 2.0

Column diameter : 0.25



Data File: /chem/aux/msb.i/b0203a95.b/b5883.d
Report Date: 04-Feb-1995 07:47

Analytical Services Corp.

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/aux/msb.i/b0203a95.b/b5883.d
Lab. Id. :
Quant Type: ISTD
Inj Date : 04-FEB-95 03:25
Autotune Date: (
Operator : Tom
Inst ID: msb.i
Smp Info : method blank
Misc Info : n1c50110c,n1c50110,m1,2,1
Comment :
Method : /chem/aux/msb.i/b0203a95.b/bnaclpb.m
Meth Date : 04-Feb-1995 07:38 tom
Cal Date : 04-FEB-95 00:29
Cal File: b5879.d
Als bottle: 17
Dil Factor: 1.000
Target Version: Target 3.00
Integrator: HP RTE
Compound Sublist: all.sub
Sample Matrix: WATER

BC 2.23.95

Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
$ -Fluorophenol	112.00	6.426	(0.818)	484372	51.1	25.5
$ Phenol-d5	99.00	7.265	(0.925)	407069	37.9	19.0
$ 7 2-Chlorobenzene-D4	132.00	7.603	(0.968)	648625	69.8	34.9 (A)
* 10 1,4-Dichlorobenzene-d4	152.00	7.853	(1.000)	383325	40.0	(Q)
$ 12 1,2-Dichlorobenzene-D4	152.00	8.115	(1.033)	293279	37.3	18.6 (A)
$ 19 Nitrobenzene-d5	82.00	8.616	(0.883)	460113	44.4	22.2
* 27 Naphthalene-d8	136.00	9.759	(1.000)	1093493	40.0	
$ 37 2-Fluorobiphenyl	172.00	11.631	(0.892)	826834	44.1	22.1
* 44 Acenaphthene-d10	164.00	13.046	(1.000)	692875	40.0	
$ 56 2,4,6-Tribromophenol	330.00	14.636	(1.122)	232424	73.6	36.8
* 60 Phenanthrene-d10	188.00	16.051	(1.000)	1106187	40.0	
$ 68 Terphenyl-d14	244.00	19.285	(0.891)	1324995	54.9	27.4
* 71 Chrysene-d12	240.00	21.639	(1.000)	1095815	40.0	
* 79 Perylene-d12	264.00	25.959	(1.000)	1145223	40.0	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0101

EPA SAMPLE NO.

SSPK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DWW-01

Matrix: (soil/water) WATER Lab Sample ID: N1C50110CS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B5884

Level: (low/med) LOW Date Received: N/A

% Moisture: _____ decanted: (Y/N) N Date Extracted: 01/27/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 02/04/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	25	
111-44-4	bis(2-Chloroethyl)ether	24	
95-57-8	2-Chlorophenol	44	
541-73-1	1,3-Dichlorobenzene	24	
106-46-7	1,4-Dichlorobenzene	24	
95-50-1	1,2-Dichlorobenzene	24	
95-48-7	2-Methylphenol	29	
108-60-1	2,2'-oxybis(1-Chloropropane)	31	
106-44-5	4-Methylphenol	28	
621-64-7	N-Nitroso-di-n-propylamine	34	
67-72-1	Hexachloroethane	21	
98-95-3	Nitrobenzene	31	
78-59-1	Isophorone	33	
88-75-5	2-Nitrophenol	46	
105-67-9	2,4-Dimethylphenol	42	
111-91-1	bis(2-Chloroethoxy)methane	31	
120-83-2	2,4-Dichlorophenol	45	
120-82-1	1,2,4-Trichlorobenzene	25	
91-20-3	Naphthalene	27	
106-47-8	4-Chloroaniline	12	
87-68-3	Hexachlorobutadiene	19	
59-50-7	4-Chloro-3-methylphenol	49	
91-57-6	2-Methylnaphthalene	28	
77-47-4	Hexachlorocyclopentadiene	15	
88-06-2	2,4,6-Trichlorophenol	49	
95-95-4	2,4,5-Trichlorophenol	36	
91-58-7	2-Chloronaphthalene	30	
88-74-4	2-Nitroaniline	36	
131-11-3	Dimethylphthalate	26	
208-96-8	Acenaphthylene	32	
606-20-2	2,6-Dinitrotoluene	35	
99-09-2	3-Nitroaniline	18	
83-32-9	Acenaphthene	28	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0102 EPA SAMPLE NO.

SSPK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: _____ Case No.: 15226N SAS No.: _____ SDG No.: CLJ-DWW-01

Matrix: (soil/water) WATER Lab Sample ID: N1C50110CS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B5884

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

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 01/27/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 02/04/95

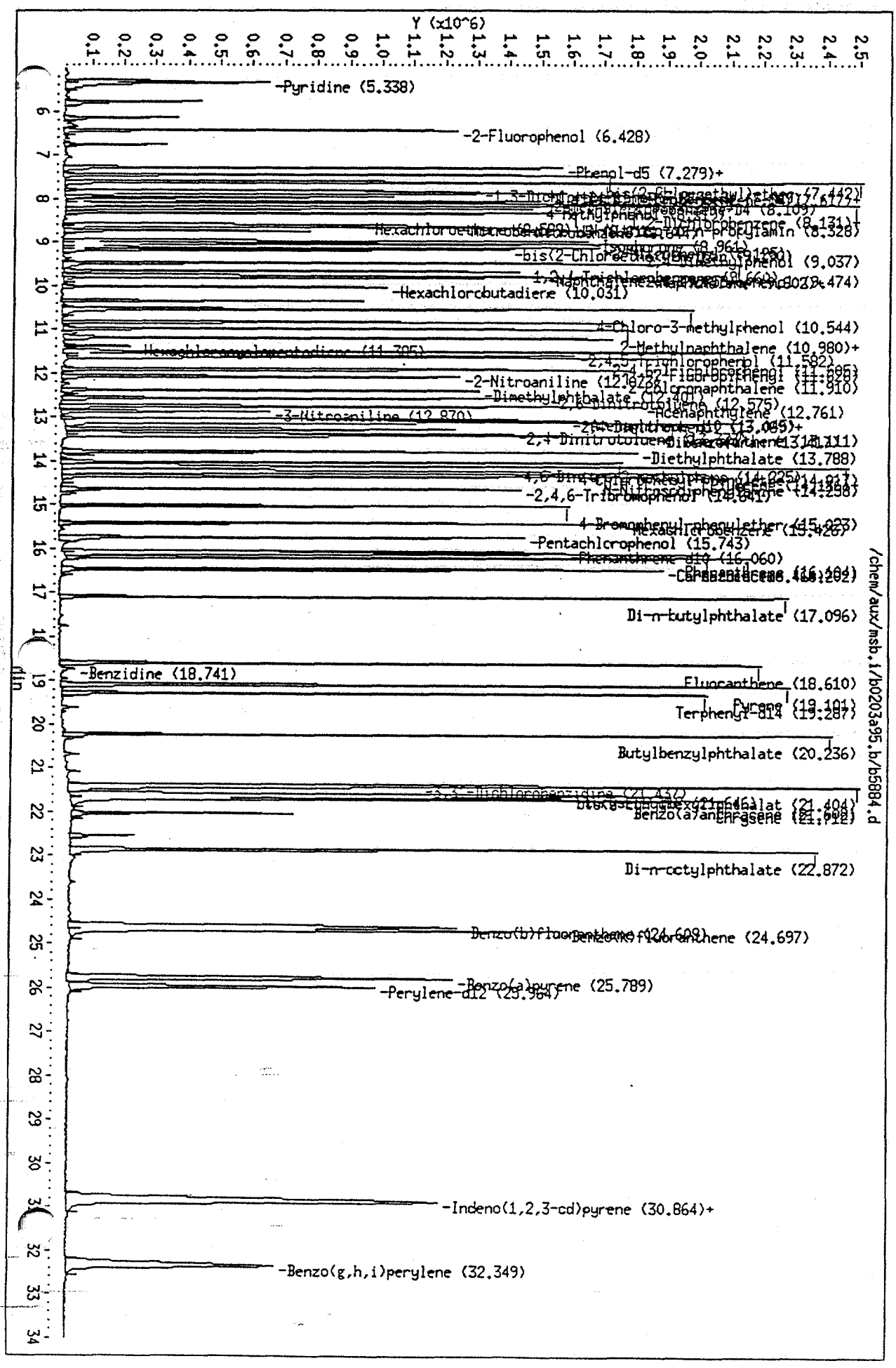
Injection Volume: 2.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	74	
100-02-7	4-Nitrophenol	31	J
132-64-9	Dibenzofuran	31	
121-14-2	2,4-Dinitrotoluene	35	
84-66-2	Diethylphthalate	31	
7005-72-3	4-Chlorophenyl-phenylether	33	
86-73-7	Fluorene	31	
100-01-6	4-Nitroaniline	31	
534-52-1	4,6-Dinitro-2-methylphenol	57	
101-55-3	4-Bromophenyl-phenylether	33	
86-30-6	N-Nitrosodiphenylamine (1)	33	
118-74-1	Hexachlorobenzene	34	
87-86-5	Pentachlorophenol	69	
85-01-8	Phenanthrene	31	
120-12-7	Anthracene	31	
86-74-8	Carbazole	32	
84-74-2	Di-n-butylphthalate	33	
206-44-0	Fluoranthene	32	
129-00-0	Pyrene	31	
85-68-2	Butylbenzylphthalate	32	
91-94-1	3,3'-Dichlorobenzidine	14	
56-55-3	Benzo(a)anthracene	35	
218-01-9	Chrysene	33	
117-81-7	bis(2-Ethylhexyl)phthalate	57	
117-84-0	Di-n-octylphthalate	32	
205-99-2	Benzo(b)fluoranthene	33	
207-08-9	Benzo(k)fluoranthene	29	
50-32-8	Benzo(a)pyrene	33	
193-39-5	Indeno(1,2,3-cd)pyrene	32	
53-70-3	Dibenz(a,h)anthracene	30	
191-24-2	Benzo(g,h,i)perylene	31	

(1) - Cannot be separated from Diphenylamine

Data File: /chem/aux/msb.i/b0203a95.b/b5884.d
Date : 04-FEB-95 04:10
Instrument : msb.i
Sample ID : method blank spk
Column phase : J&W DB-5
Volume Injected (uL) : 2.0



Column diameter : 0.25

Data File: /chem/aux/msb.i/b0203a95.b/b5884.d
Report Date: 04-Feb-1995 07:47

Analytical Services Corp.

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/aux/msb.i/b0203a95.b/b5884.d
Lab. Id. :
Quant Type: ISTD
Inj Date : 04-FEB-95 04:10
Autotune Date: {
Operator : Tom
Inst ID: msb.i
Smp Info : method blank spk
Misc Info : n1c50110cs,n1c50110,m1,2,1
Comment :
Method : /chem/aux/msb.i/b0203a95.b/bnaclpb.m
Meth Date : 04-Feb-1995 07:38 tom
Cal Date : 04-FEB-95 00:29
Cal File: b5879.d
Als bottle: 18
Dil Factor: 1.000
Target Version: Target 3.00
Integrator: HP RTE
Compound Sublist: all.sub
Sample Matrix: WATER

2-8-95

		Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
	1	N-Nitrosodimethylamine	42.00	5.295	(0.675)	289579	45.7	22.9
	2	Pyridine	79.00	5.338	(0.680)	463590	44.3	22.1
$	3	2-Fluorophenol	112.00	6.428	(0.819)	583314	63.7	31.9
$	4	Phenol-d5	99.00	7.268	(0.926)	525144	50.7	25.3
	5	Phenol	94.00	7.290	(0.929)	547199	50.8	25.4
	6	bis(2-Chloroethyl)ether	93.00	7.442	(0.948)	1017695	48.4	24.2(Q)
$	7	2-Chlorobenzene-D4	132.00	7.606	(0.969)	766017	85.4	42.7(AR)
	8	2-Chlorophenol	128.00	7.628	(0.972)	833279	86.9	43.5
	9	1,3-Dichlorobenzene	146.00	7.814	(0.996)	530199	47.1	23.5
*	10	1,4-Dichlorobenzene-d4	152.00	7.847	(1.000)	370047	40.0	
	11	1,4-Dichlorobenzene	146.00	7.869	(1.003)	530452	47.5	23.8
$	12	1,2-Dichlorobenzene-D4	152.00	8.109	(1.033)	374505	49.3	24.6(A)
	13	1,2-Dichlorobenzene	146.00	8.131	(1.036)	468285	47.4	23.7
	14	2-Methylphenol	108.00	8.043	(1.025)	475203	58.7	29.3
	15	2,2'-oxybis(1-Chloropropene)	45.00	8.131	(1.036)	977224	61.6	30.8
	16	4-Methylphenol	108.00	8.219	(1.047)	490320	56.5	28.3
	17	N-Nitroso-di-n-propylamine	70.00	8.328	(1.061)	496728	67.1	33.6
	18	Hexachloroethane	117.00	8.589	(1.095)	190138	41.1	20.6
$	19	Nitrobenzene-d5	82.00	8.611	(0.882)	633836	60.0	30.0
	20	Nitrobenzene	77.00	8.644	(0.886)	604306	61.7	30.8
	21	Isophorone	82.00	8.961	(0.918)	1289740	65.1	32.6
	22	2-Nitrophenol	139.00	9.125	(0.935)	538903	92.5	46.3
	23	2,4-Dimethylphenol	107.00	9.037	(0.926)	762814	84.1	42.0
	24	bis(2-Chloroethoxy)methane	93.00	9.190	(0.942)	767109	61.7	30.8
	25	2,4-Dichlorophenol	162.00	9.474	(0.971)	772569	90.8	45.4
	26	1,2,4-Trichlorobenzene	180.00	9.660	(0.990)	483981	49.2	24.6
*	27	Naphthalene-d8	136.00	9.758	(1.000)	1113974	40.0	
	28	Naphthalene	128.00	9.791	(1.003)	1317987	54.8	27.4
	29	4-Chloroaniline	127.00	9.802	(1.004)	340968	24.3	12.2

Data File: /chem/aux/msb.i/b0203a95.b/b5884.d
Report Date: 04-Feb-1995 07:47

	Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
	30 Hexachlorobutadiene	225.00	10.031	(1.028)	196880	38.5	19.3
	31 4-Chloro-3-methylphenol	107.00	10.544	(1.081)	784859	98.1	49.0
	32 2-Methylnaphthalene	142.00	10.980	(1.125)	887539	55.1	27.5
	33 1-Methylnaphthalene	142.00	10.980	(1.399)	887539	55.2	27.6(A)
	34 Hexachlorocyclopentadiene	237.00	11.385	(0.873)	47836	30.3	15.2
	35 2,4,6-Trichlorophenol	196.00	11.505	(0.882)	625430	97.4	48.7
	36 2,4,5-Trichlorophenol	196.00	11.582	(0.888)	487046	71.2	35.6
$	37 2-Fluorobiphenyl	172.00	11.626	(0.891)	1131268	59.6	29.8
	38 2-Chloronaphthalene	162.00	11.910	(0.913)	1034735	59.6	29.8
	39 2-Nitroaniline	65.00	12.073	(0.926)	421248	71.0	35.5
	40 Dimethylphthalate	163.00	12.401	(0.951)	1086186	51.6	25.8
	41 2,6-Dinitrotoluene	165.00	12.575	(0.964)	398317	70.6	35.3
	42 Acenaphthylene	152.00	12.761	(0.978)	1649238	64.8	32.4
	43 3-Nitroaniline	138.00	12.870	(0.987)	201874	35.3	17.6(a)
*	44 Acenaphthene-d10	164.00	13.045	(1.000)	702237	40.0	
	45 Acenaphthene	153.00	13.111	(1.005)	947159	56.7	28.4
	46 2,4-Dinitrophenol	184.00	13.089	(1.003)	259229	148	73.8(Q)
	48 Dibenzofuran	168.00	13.417	(1.029)	1471225	63.1	31.5
	47 4-Nitrophenol	109.00	13.078	(1.003)	94386	61.2	30.6(Q)
	49 2,4-Dinitrotoluene	165.00	13.373	(1.025)	530439	69.2	34.6
	[illegible]luorene	166.00	14.116	(1.082)	1102029	61.6	30.8
	[illegible] Diethylphthalate	149.00	13.788	(1.057)	1299054	61.4	30.7
	51 4-Chlorophenyl-phenylether	204.00	14.028	(1.075)	668143	64.9	32.5
	53 4-Nitroaniline	138.00	14.127	(1.083)	328069	62.7	31.3
	54 4,6-Dinitro-2-methylphenol	198.00	14.225	(0.886)	458422	114	57.1
	55 N-Nitrosodiphenylamine	169.00	14.258	(0.888)	879005	65.1	32.6
$	56 2,4,6-Tribromophenol	330.00	14.641	(1.122)	333138	104	52.0
	57 4-Bromophenyl-phenylether	248.00	15.023	(0.935)	436638	65.5	32.8
	58 Hexachlorobenzene	284.00	15.426	(0.961)	584861	67.8	33.9
	59 Pentachlorophenol	266.00	15.743	(0.980)	365334	139	69.4
*	60 Phenanthrene-d10	188.00	16.060	(1.000)	1129266	40.0	
	61 Phenanthrene	178.00	16.115	(1.003)	1664817	62.1	31.0
	62 Anthracene	178.00	16.202	(1.009)	1671535	62.8	31.4
	63 Carbazole	167.00	16.464	(1.025)	1642488	64.4	32.2
	64 Di-n-butylphthalate	149.00	17.096	(1.065)	2443032	65.1	32.6
	65 Fluoranthene	202.00	18.610	(1.159)	1990146	64.8	32.4
	66 Benzidine	184.00	18.741	(0.865)	41860	6.82	3.41(a)
	67 Pyrene	202.00	19.101	(0.882)	2049033	62.0	31.0
$	68 Terphenyl-d14	244.00	19.287	(0.891)	1435687	58.0	29.0
	69 Butylbenzylphthalate	149.00	20.236	(0.934)	1177757	64.5	32.2
	70 Benzo(a)anthracene	228.00	21.602	(0.997)	1925079	70.2	35.1
	72 3,3'-Dichlorobenzidine	252.00	21.437	(0.990)	287402	27.4	13.7
	73 Chrysene	228.00	21.712	(1.003)	1693743	66.8	33.4
*	71 Chrysene-d12	240.00	21.657	(1.000)	1123778	40.0	
	74 bis(2-Ethylhexyl)phthalate	149.00	21.404	(0.988)	2967077	115	57.5
	[illegible]i-n-octylphthalate	149.00	22.872	(0.881)	3075399	63.6	31.8
	[illegible]enzo(b)fluoranthene	252.00	24.609	(0.948)	1960560	65.6	32.8
	77 Benzo(k)fluoranthene	252.00	24.697	(0.951)	1915928	58.5	29.3
	78 Benzo(a)pyrene	252.00	25.789	(0.993)	1805164	66.3	33.2

Data File: /chem/aux/msb.i/b0203a95.b/b5884.d
Report Date: 04-Feb-1995 07:47

Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
* 79 Perylene-d12	264.00	25.964	(1.000)	1211725	40.0	
80 Indeno(1,2,3-cd)pyrene	276.00	30.875	(1.189)	1890138	64.3	32.2
81 Dibenzo(a,h)anthracene	278.00	30.864	(1.189)	1459147	59.8	29.9
82 Benzo(g,h,i)perylene	276.00	32.349	(1.246)	1563925	62.9	31.5

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

0107 EPA SAMPLE NO.

CLJ-DWW001

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DWW-001

Matrix: (soil/water) WATER Lab Sample ID: JN7550P

Sample wt/vol: 1000 (g/mL) ML Lab File ID: ^Z8453

% Moisture: N/A decanted: (Y/N) N Date Received: 01/26/95

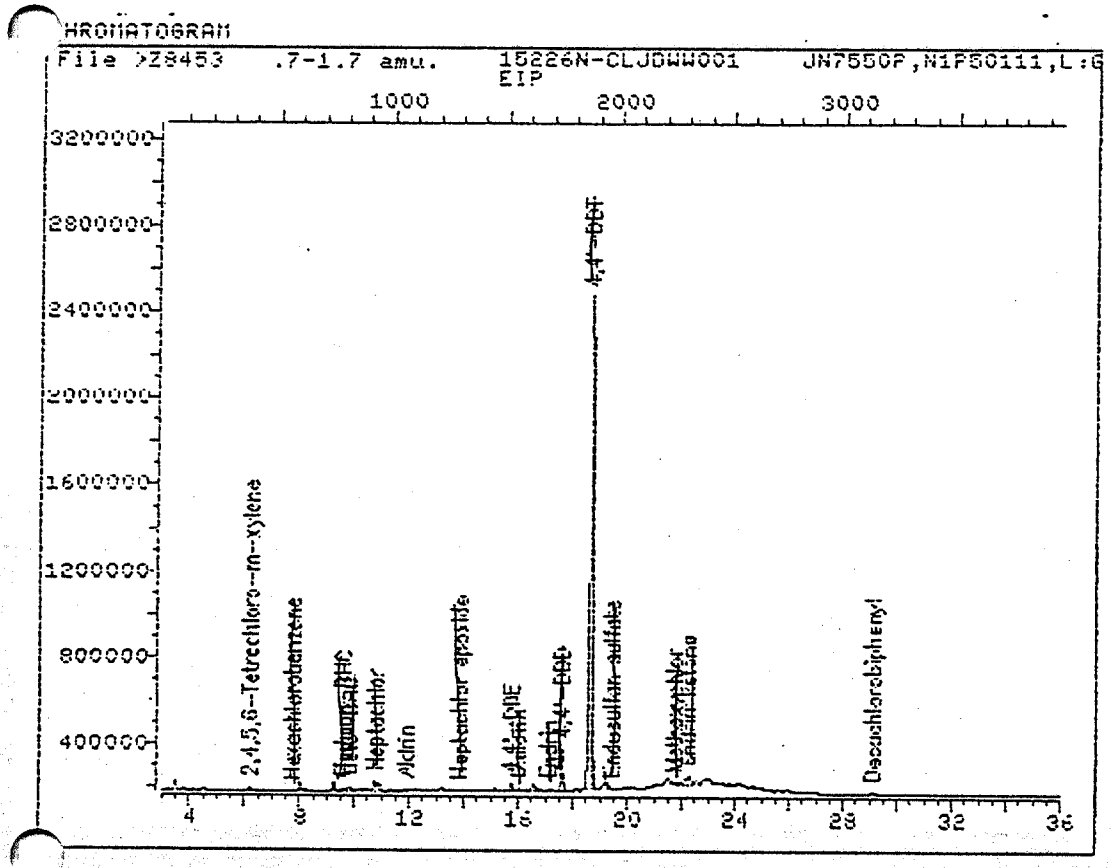
Extraction: (SepF/Cont/Sonc) 3580 Date Extracted: 01/27/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	.10	U
319-85-7	beta-BHC	.10	U
319-86-8	delta-BHC	.10	U
58-89-9	gamma-BHC (Lindane)	.10	U
76-44-8	Heptachlor	.10	U
309-00-2	Aldrin	.13	
1024-57-3	Heptachlor epoxide	.10	U
959-98-8	Endosulfan I	.10	U
60-57-1	Dieldrin	.10	U
72-55-9	4,4'-DDE	.24	
72-20-8	Endrin	.10	U
33213-65-9	Endosulfan II	.10	U
72-54-8	4,4'-DDD	.10	U
1031-07-8	Endosulfan sulfate	.10	U
50-29-3	4,4'-DDT	.10	U
72-43-5	Methoxychlor	.10	U
53494-70-5	Endrin ketone	.10	U
7421-93-4	Endrin aldehyde	.10	U
5103-71-9	alpha-Chlordane	.10	U
5103-74-2	gamma-Chlordane	.10	U
8001-35-2	Toxaphene	2.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
57-74-9	Chlordane	1.0	U



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Misc: JN7550P,N1P50111,L:G2,1000,1:10,

Id File: IZP118::D5
Title: PESTICIDES D8-608 BY GC B2 (FRONT)
Last Calibration: 950119 08:06 Last Qcal Time: <none>

Operator ID: USER2
Quant Time : 950131 21:45
Injected at: 950131 21:03

QUANT REPORT Page 1

Operator ID: USER2 Quant Rev: 7 Quant Time: 950131 21:45
Output File: ^Z8453::D5 Injected at: 950131 21:03
Data File: >Z8453::D5 Dilution Factor: 1.00000
Name: 15226N-CLJDWW001 Instrument ID: Z
Misc: JN7550P,N1P50111,L:G2,1000,1:10,

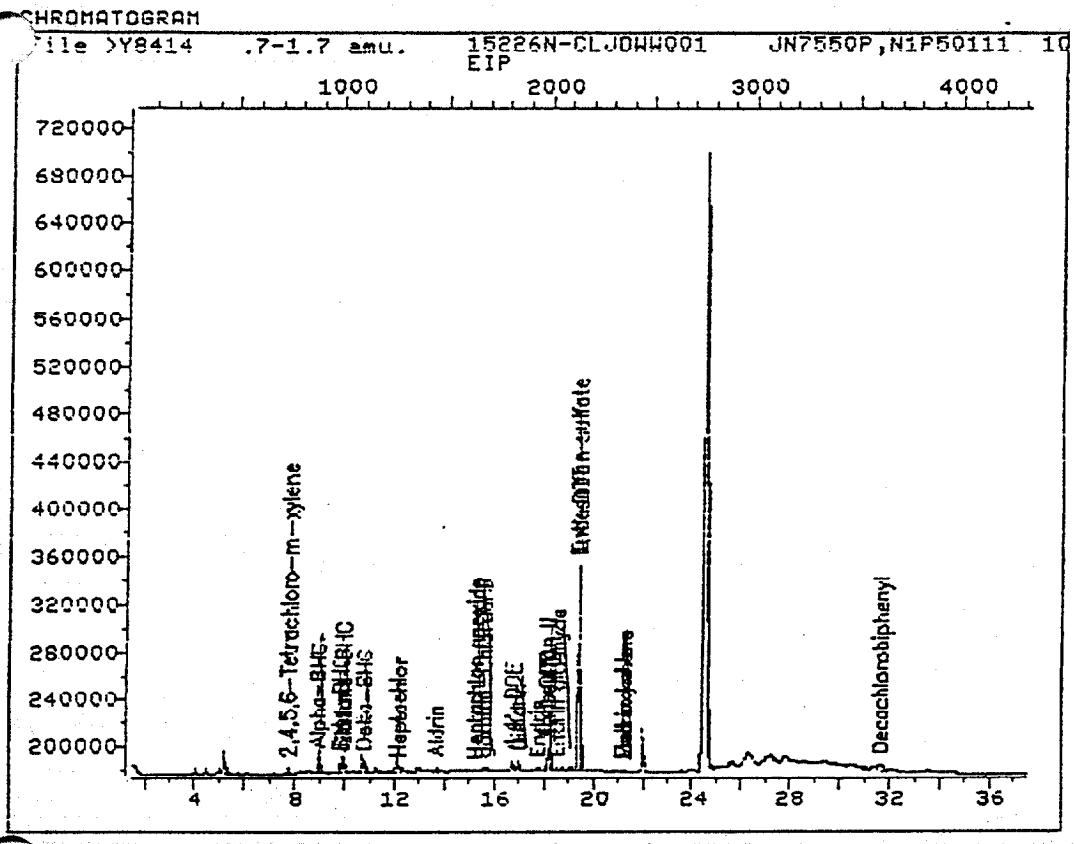
ID File: IZP118::D5
Title: PESTICIDES D8-608 BY GC B2 (FRONT)
Last Calibration: 950119 08:06 Last Qcal Time: <none>

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#2,4,5,6-Tetrachloro-m-xylene	6.15	379	83935	.0142	ug/ml	100
3)	#Lindane	9.54	786	76960	.0108	ug/ml	100
4)	#Gamma-BHC	9.54	786	76960	.0108	ug/ml	100
5)	#Beta-BHC	9.80	817	140928	.0336	ug/ml	100
6)	#Heptachlor	10.71	926	225150	.0239	ug/ml	100
8)	#Aldrin	11.82	1059	87551	.0131	ug/ml	100
9)	#Heptachlor epoxide	13.79	1296	41663	.0087	ug/ml	100
13)	#4,4'-DDE	15.67	1521	137919	.0242	ug/ml	100
14)	#Dieldrin	15.96	1556	23391	.0031	ug/ml	100
15)	#Endrin	17.06	1688	34976	.0068	ug/ml	100
16)	#4,4'-DDD	17.54	1746	1136774	.271	ug/ml	100
18)	#4,4'-DDT	18.58	1871	15946630	3.87	ug/ml	100
20)	#Endosulfan sulfate	19.37	1965	49553	.0114	ug/ml	100
21)	#Methoxychlor	21.69	2244	35711	.0134	ug/ml	100
22)	#Endrin ketone	22.20	2305	614323	.113	ug/ml	100
23)	#Decachlorobiphenyl	29.08	3130	143176	.0185	ug/ml	100
33)	#Hexachlorobenzene	7.68	563	22272	0.00	ug/ml	100

Compound uses ESTD

48414

QC
2/11/95



Confirm

Data File: >Y8414::D5 Quant Output File: ^Y8414::D5
Name: 15226N-CLJDWW001 Instrument ID: Y
Misc: JN7550P,N1P50111 10X

Id File: IYP118::D5
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, B2R
Last Calibration: 950119 08:04 Last Qcal Time: <none>

Operator ID: USER2
Quant Time : 950131 22:29
Injected at: 950131 21:48

QUANT REPORT Page 1

Operator ID: USER2 Quant Rev: 7 Quant Time: 950131 22:29
Output File: ^Y8414::D5 Injected at: 950131 21:48
Data File: >Y8414::D5 Dilution Factor: 1.00000
Name: 15226N-CLJDWW001 Instrument ID: Y
Misc: JN7550P,N1P50111 10X

ID File: IYP118::D5
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, B2R
Last Calibration: 950119 08:04 Last Qcal Time: <none>

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#2,4,5,6-Tetrachloro-m-xylene	7.73	749	22879	.0169	ug/ml	100
2)	#Alpha-BHC	8.91	890	67199	.0306	ug/ml	100
3)	#Beta-BHC	9.83	1001	37017	.0393	ug/ml	100
4)	#Gamma-BHC	9.91	1010	90783	.0444	ug/ml	100
5)	#Lindane	9.91	1010	90783	.0444	ug/ml	100
6)	#Delta-BHC	10.76	1112	50143	.0330	ug/ml	100
7)	#Heptachlor	12.13	1277	13664	.00791	ug/ml	100
8)	#Aldrin	13.64	1458	21951	.0147	ug/ml	100
9)	#Heptachlor epoxide	15.21	1646	7200	.00466	ug/ml	100
10)	#gamma-Chlordane	15.54	1686	13568	.00815	ug/ml	100
11)	#4,4'-DDE	16.72	1827	33923	.0272	ug/ml	100
14)	#Dieldrin	16.96	1856	32096	.0232	ug/ml	100
15)	#Endrin	17.73	1949	6687	.00532	ug/ml	100
16)	#Endosulfan II	18.11	1994	69776	.0621	ug/ml	100
17)	#4,4'-DDD	18.11	1994	69776	.0621	ug/ml	100
18)	#Endrin aldehyde	18.52	2043	7936	.00711	ug/ml	100
19)	#4,4'-DDT	19.36	2144	843404	.268	ug/ml	100
20)	#Endosulfan sulfate	19.36	2144	843404	.268	ug/ml	100
21)	#Endrin ketone	21.21	2366	18048	.0126	ug/ml	100
22)	#Methoxychlor	21.21	2366	18048	.0272	ug/ml	100
23)	#Decachlorobiphenyl	31.63	3617	67075M	.0362	ug/ml	

Compound uses ESTD

2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DWW-001

GC Column(1): DB608 ID: 0.53 (mm) GC Column(2): DB5 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK01	69		77				0
02	PSPK01	67		73				0
03	CLJ-DWW001	32		73				0

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D System Monitoring compound diluted out

3E

WATER PESTICIDE BLANK SPIKE RECOVERY

0113

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DWW-001

Matrix Spike - EPA Sample No.: PSPK01

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	1.0	0	1.0	96	30-130
Heptachlor	.83	0	.67	81	30-130
Aldrin	.94	0	.70	74	30-130
Dieldrin	.99	0	.97	99	30-130
Endrin	1.0	0	1.0	100	30-130
4,4'-DDT	1.1	0	1.1	101	30-130

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

* Values outside of QC limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

0114 EPA SAMPLE NO.

PBLK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DWW-001

Lab File ID: ^Z8451 Lab Sample ID: N1P50111P

Instrument ID: ~~Z~~ B2F Date Extracted: 01/27/95

Matrix: (soil/water) WATER Date Analyzed: 01/31/95

Level: (low/med) low Time Analyzed: 19:33

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	PSPK01	N1P50111PS	^Z8452	01/31/95
02	CLJ-DWW001	JN7550P	^Z8453	01/31/95

COMMENTS:

Calibration Report

Title: PESTICIDES DB-608 BY ECD/GC (B2 FRONT)
Calibrated: 950119 08:00

Compound	Files: >Z8237 RF .0200	>Z8238 RF .0500	>Z8239 RF .100	>Z8240 RF 1.00	>Z8241 RF 2.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	
2,4,5,6-Tetrachloro-m-xylene	6598350	6835180	6679060	5038611	4370175	6.252	5904276	19.033	.997495	
Alpha-BHC	6112000	8101740	9123240	8415896	7495204	8.475	7849616	14.457	.998210	
Lindane	5923200	7465600	8229160	7459459	6647886	9.785	7145061	12.355	.998253	
Gamma-BHC	5923200	7465600	8229160	7459459	6647886	9.785	7145061	12.355	.998253	
Beta-BHC	4321600	4648320	4688630	3872442	3453034	10.013	4196806	12.607	.998376	
Heptachlor	8255950	8685500	8761050	7034430	6171910	10.880	7781770	14.582	.997865	
Delta-BHC	4043200	5424000	6495390	6666995	6061968	11.260	5738310	18.510	.998746	
Aldrin	6521550	7191020	7517140	6425097	5684085	12.000	6667778	10.719	.998088	
Heptachlor epoxide	6926350	7401620	7554950	6015698	5344865	13.898	6648697	14.201	.998272	
gamma-Chlordane	7641550	8119680	8171590	6869159	6114258	14.442	7383248	11.933	.998318	
alpha-Chlordane	7391950	7867460	7993920	6350906	5604262	14.985	7041701	14.646	.998057	
Endosulfan I	5135600	5873920	6064010	4833309	4238480	15.085	5229064	14.373	.997813	
4,4'-DDE	4881600	5934060	6557460	5869423	5230172	15.835	5694543	11.479	.998258	
Dieldrin	5388750	6264300	6815380	6041888	5417534	16.118	5985571	10.053	.998464	
Endrin	4502350	5241580	6057070	5235739	4680305	17.352	5143409	11.820	.998353	
4,4'-DDD	3387200	4202880	4810260	4518841	4064713	17.690	4196778	12.793	.998506	
Endosulfan II	5019150	5507220	5771800	4934104	4440588	17.950	5134573	10.120	.998609	
,4'-DDT	3412750	3989080	4536650	4627755	4227281	18.688	4158703	11.736	.998891	
Endrin aldehyde	4745600	4815980	4875500	4125542	3688621	19.035	4450249	11.716	.998456	
Endosulfan sulfate	4097600	4483200	4743710	4356653	3964200	19.442	4329073	7.149	.998868	
Methoxychlor	2635150	2817880	2918060	2625009	2373487	21.920	2673917	7.811	.998725	
Endrin ketone	4839950	5561600	6091870	5681407	5124729	22.517	5459911	8.951	.998613	
Decachlorobiphenyl	9490000	9246320	8580640	6046060	5355780	29.543	7743760	24.665	.998303	
Hexachlorocyclopentadiene	-	-	-	-	-	-	-	-	-	(Conc=.0200,.0400,.100,
Hexachlorobenzene	-	-	-	-	-	-	-	-	-	(Conc=.0206,.0412,.103,

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

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

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

Calibration Report

Confirm

Title: 8080 PESTICIDES BY GC, COLUMN DB5, ECD, B2R
Calibrated: 950119 07:56

Compound	Files: >Y8187 RF .0200	>Y8188 RF .0500	>Y8189 RF .100	>Y8190 RF 1.00	>Y8191 RF 2.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	
2,4,5,6-Tetrachloro-m-xylene	1313550	1415020	1508480	1346380	1198766	7.498	1356439	8.514	.998269	
Alpha-BHC	1099200	1505280	1946870	2200859	2006547	8.742	1751751	25.390	.998754	—
Gamma-BHC	1099150	1473260	1820480	1980490	1803875	9.775	1635451	21.522	.998758	—
Lindane	1099150	1473260	1820480	1980490	1803875	9.775	1635451	21.522	.998758	—
Beta-BHC	838400.	931200.	1015030	1005506	917029.	9.448	941433.	7.667	.998881	
Heptachlor	1652800	1713280	1837440	1792595	1638558	12.150	1726935	5.016	.998955	
Delta-BHC	835200.	1125760	1489270	1817353	1685111	10.605	1390539	29.150	.999118	—
Aldrin	1232000	1374060	1582070	1703442	1572942	13.363	1492903	12.571	.999117	
Heptachlor epoxide	1475200	1520628	1625270	1611013	1485254	14.605	1543472	4.561	.999144	
gamma-Chlordane	1596800	1650540	1750080	1731570	1592765	15.382	1664351	4.430	.999097	
Alpha-Chlordane	1343175	1434550	1523040	1405244	1273345	15.830	1395871	6.753	.998762	(Conc=.0400,.100,.200,2.00
Endosulfan I	1343175	1434550	1523040	1405244	1273345	15.830	1395871	6.753	.998762	(Conc=.0400,.100,.200,2.00
4,4'-DDE	971200.	1084160	1272000	1503038	1402766	16.415	1246633	17.621	.999290	
Dieldrin	1155200	1268460	1403520	1597241	1493522	16.747	1383589	12.702	.999353	
Endrin	1076800	1126400	1281270	1447439	1357771	17.462	1257936	12.358	.999411	
4,4'-DDD	989600.	1116150	1218715	1191871	1097863	17.800	1122840	8.013	.999117	(Conc=.0400,.100,.200,2.00
Endosulfan II	989600.	1116150	1218715	1191871	1097863	17.800	1122840	8.013	.999117	(Conc=.0400,.100,.200,2.00
4,4'-DDT	918400.	1036790	1167040	1224574	1142508	19.042	1097863	11.041	.999341	(Conc=.0400,.100,.200,2.00
Endrin aldehyde	1158400	1114880	1144950	1116656	1046741	18.257	1116326	3.862	.999482	
Endosulfan sulfate	918400.	1036790	1167040	1224574	1142508	19.042	1097863	11.041	.999341	(Conc=.0400,.100,.200,2.00
Methoxychlor	635000.	638900.	666840.	704359.	670844.	20.928	663587.	4.242	.999682	
Endrin ketone	1752750	1367640	1516460	1577706	1458587	20.742	1434628	8.898	.999175	
Decachlorobiphenyl	2163350	2096140	2023770	1580468	1417016	30.820	1855749	18.127	.998524	
Tetrachloro-m-xylene	-	-	-	-	-	-	-	-	-	
Hexachlorobenzene	-	-	-	-	-	-	-	-	-	

RF - Response factor (Subscript is amount in ug/ml)

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

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORR1 - Coefficient of Correlation (nth degree)

Calibration Check Report

Title: PESTICIDES 08-608 BY ECD/GC (B2 FRONT)
Calibrated: 950119 08:00

Check Standard Data File: >Z8445
Injection Time: 950131 11:05

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
2,4,5,6-Tetrachloro-m-xylene	5904276	6017589	1.92	Average	(Conc=.820)
Alpha-BHC	7849616	8167637	4.05	Average	(Conc=1.06)
Lindane	7145061	7549918	5.67	Average	(Conc=1.05)
Gamma-BHC	7145061	7549918	5.67	Average	(Conc=1.05)
Beta-BHC	4196806	4364641	4.00	Average	(Conc=.916)
Heptachlor	7781770	8221132	5.65	Average	(Conc=.814)
Delta-BHC	5738310	6293812	9.68	Average	(Conc=1.18)
Aldrin	6667778	6802647	2.02	Average	(Conc=.956)
Heptachlor epoxide	6648697	6888268	3.60	Average	(Conc=.900)
gamma-Chlordane	7383248	7646237	3.56	Average	(Conc=.889)
alpha-Chlordane	7041701	7570748	7.51	Average	(Conc=.860)
Endosulfan I	5229064	5137928	1.74	Average	(Conc=1.06)
4,4'-DDE	5694543	5818795	2.18	Average	(Conc=1.03)
Dieldrin	5985571	6206281	3.72	Average	(Conc=1.01)
Endrin	5143409	5389172	4.78	Average	(Conc=1.03)
4,4'-DDD	4196778	4355652	3.79	Average	(Conc=1.05)
Endosulfan II	5134573	5320387	3.62	Average	(Conc=1.01)
4,4'-DDT	4158703	4652194	11.87	Average	(Conc=1.10)
Endrin aldehyde	4450249	4672514	4.99	Average	(Conc=.930)
Endosulfan sulfate	4329073	4767216	10.12	Average	(Conc=.998)
Methoxychlor	2673917	3013486	12.70	Average	(Conc=.967)
Endrin ketone	5459911	5913757	8.31	Average	(Conc=.970)
Decachlorobiphenyl	7743760	8145790	5.19	Average	(Conc=.748)
Hexachlorocyclopentadiene	-	-	-	Average	(Conc=1.00)
Hexachlorobenzene	-	-	-	Average	(Conc=1.00)

RF - Response Factor from daily standard file at 1.00 ug/ml

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

%Diff - % Difference from original average or curve

Calibration Check Report

Title: PESTICIDES 08-608 BY ECD/GC (B2 FRONT)
Calibrated: 950119 08:00

Check Standard Data File: >Z8467
Injection Time: 950201 13:11

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
2,4,5,6-Tetrachloro-m-xylene	5904276	6086740	3.09	Average	(Conc=.820)
Alpha-BHC	7849616	8235748	4.92	Average	(Conc=1.06)
Lindane	7145061	7577137	6.05	Average	(Conc=1.05)
Gamma-BHC	7145061	7577137	6.05	Average	(Conc=1.05)
Beta-BHC	4196806	4358038	3.84	Average	(Conc=.916)
Heptachlor	7781770	7988488	2.66	Average	(Conc=.814)
Delta-BHC	5738310	6429626	12.05	Average	(Conc=1.18)
Aldrin	6667778	6879769	3.18	Average	(Conc=.956)
Heptachlor epoxide	6648697	6904166	3.84	Average	(Conc=.900)
gamma-Chlordane	7383248	7570212	2.53	Average	(Conc=.889)
alpha-Chlordane	7041701	7395156	5.02	Average	(Conc=.860)
Endosulfan I	5229064	5295088	1.26	Average	(Conc=1.06)
4,4'-DDE	5694543	5855022	2.82	Average	(Conc=1.03)
Dieldrin	5985571	6258888	4.57	Average	(Conc=1.01)
Endrin	5143469	5331572	3.66	Average	(Conc=1.03)
4,4'-DDD	4196778	4425533	5.45	Average	(Conc=1.05)
Endosulfan II	5134573	5371805	4.62	Average	(Conc=1.01)
4,4'-DDT	4158703	4586215	10.28	Average	(Conc=1.10)
Endrin aldehyde	4450249	4710681	5.86	Average	(Conc=.930)
Endosulfan sulfate	4329073	4834071	11.67	Average	(Conc=.998)
Methoxychlor	2673917	2947191	10.22	Average	(Conc=.967)
Endrin ketone	5459911	6053603	10.87	Average	(Conc=.970)
Decachlorobiphenyl	7743760	7975691	3.00	Average	(Conc=.748)
Hexachlorocyclopentadiene	-	-	-	Average	(Conc=1.00)
Hexachlorobenzene	-	-	-	Average	(Conc=1.00)

RF - Response Factor from daily standard file at 1.00 ug/ml

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

%Diff - % Difference from original average or curve

Calibration Check Report

Title: 8080 PESTICIDES BY GC, COLUMN DB5, ECD, B2R
Calibrated: 950119 07:56

Check Standard Data File: >Y8405
Injection Time: 950131 11:05

Confirm

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
2,4,5,6-Tetrachloro-m-xylene	1356439	1554355	14.59	Average	(Conc=.820)
Alpha-BHC	1751751	2043646	.18	1st Degree	(Conc=1.06)
Gamma-BHC	1635451	1882802	2.17	1st Degree	(Conc=1.05)
Lindane	1635451	1882802	2.17	1st Degree	(Conc=1.05)
Beta-BHC	941433.	1088980	15.67	Average	(Conc=.916)
Heptachlor	1726935	2185378	26.55	Average	(Conc=.814)
Delta-BHC	1390539	1565242	8.45	1st Degree	(Conc=1.18)
Aldrin	1492903	1747432	17.05	Average	(Conc=.956)
Heptachlor epoxide	1543472	1781276	15.41	Average	(Conc=.900)
gamma-Chlordane	1664351	1874521	12.63	Average	(Conc=.869)
alpha-Chlordane	1395871	1534712	9.95	Average	(Conc=1.92)
Endosulfan I	1395871	1534712	9.95	Average	(Conc=1.92)
4,4'-DDE	1246633	1462518	17.32	Average	(Conc=1.03)
Dieldrin	1383589	1594907	15.27	Average	(Conc=1.01)
Endrin	1257936	1416241	12.58	Average	(Conc=1.03)
4,4'-DDD	1122640	1163335	3.61	Average	(Conc=2.06)
Endosulfan II	1122840	1163335	3.61	Average	(Conc=2.06)
4,4'-DDT	1097863	1166581	6.26	Average	(Conc=2.10)
Endrin aldehyde	1116326	1231219	10.29	Average	(Conc=.930)
Endosulfan sulfate	1097863	1166581	6.26	Average	(Conc=2.10)
Methoxychlor	663589.	757347.	14.13	Average	(Conc=.967)
Endrin ketone	1434528	1530870	6.66	Average	(Conc=.970)
Decachlorobiphenyl	1855349	2067502	11.43	Average	(Conc=.748)
Dichloran	-	-	-	Average	
Hexachlopentadiene	-	-	-	Average	(Conc=.418)

RF - Response Factor from daily standard file at 1.00 ug/ml

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

%Diff - % Difference from original average or curve

Calibration Check Report

Title: 8080 PESTICIDES BY GC, COLUMN DB5, ECD, B2R
Calibrated: 950119 07:56

Check Standard Data File: >YB428
Injection Time: 950201 13:56

Confirm

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
2,4,5,6-Tetrachloro-m-xylene	1356439	1564306	15.32	Average	(Conc=.820)
Alpha-BHC	1751751	2038152	.45	1st Degree	(Conc=1.06)
Gamma-BHC	1635451	1874936	1.74	1st Degree	(Conc=1.05)
Lindane	1635451	1874936	1.74	1st Degree	(Conc=1.05)
Beta-BHC	941433.	1077661	14.47	Average	(Conc=.916)
Heptachlor	1726935	2223039	28.73	Average	(Conc=.814)
Delta-BHC	1390539	1600578	6.39	1st Degree	(Conc=1.18)
Aldrin	1492903	1806746	21.02	Average	(Conc=.956)
Heptachlor epoxide	1543472	1826044	18.31	Average	(Conc=.900)
gamma-Chlordane	1664351	1882368	13.10	Average	(Conc=.839)
alpha-Chlordane	1395871	1570563	12.51	Average	(Conc=1.92)
Endosulfan I	1395871	1570563	12.51	Average	(Conc=1.92)
4,4'-DDE	1246633	1511806	21.27	Average	(Conc=1.03)
Dieldrin	1383589	1648470	19.14	Average	(Conc=1.01)
Endrin	1257936	1464846	16.45	Average	(Conc=1.03)
4,4'-DDD	1122840	1207280	7.52	Average	(Conc=2.06)
Endosulfan II	1122840	1207280	7.52	Average	(Conc=2.06)
4,4'-DDT	1097863	1206485	9.89	Average	(Conc=2.10)
Endrin aldehyde	1116326	1276618	14.36	Average	(Conc=.930)
Endosulfan sulfate	1097863	1206485	9.89	Average	(Conc=2.10)
Methoxychlor	663589.	790038.	19.06	Average	(Conc=.967)
Endrin ketone	1434528	1605273	11.90	Average	(Conc=.970)
Decachlorobiphenyl	1855349	2060605	11.06	Average	(Conc=.748)
Dichloran	-	-	-	Average	
Hexachlopentadiene	-	-	-	Average	(Conc=.418)

RF - Response Factor from daily standard file at 1.00 ug/ml

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

%Diff - % Difference from original average or curve

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

0121 EPA SAMPLE NO.

PBLK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DWW-001

Matrix: (soil/water) WATER Lab Sample ID: N1P50111P

Sample wt/vol: 1000 (g/mL) ML Lab File ID: ^Z8451

% Moisture: N/A decanted: (Y/N) N Date Received: 1/26/95

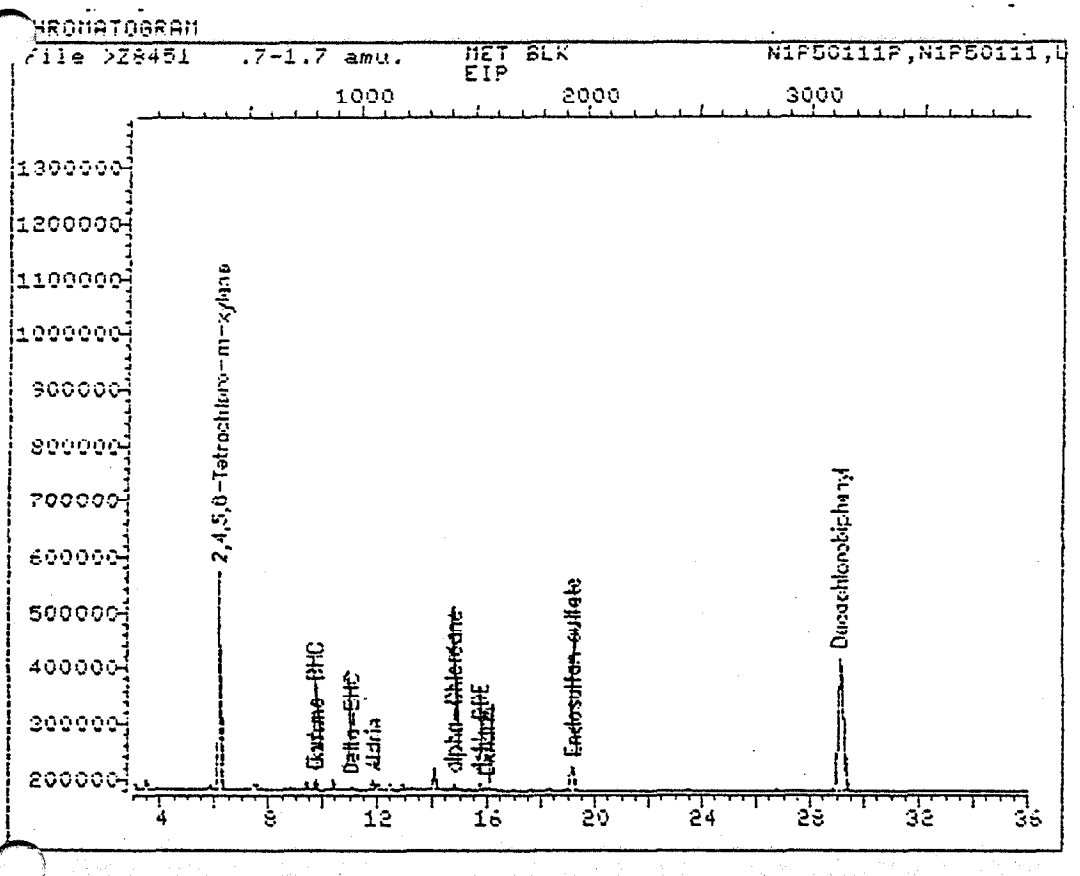
Extraction: (SepF/Cont/Sonc) 3580 Date Extracted: 01/27/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	.010	U
319-85-7	beta-BHC	.010	U
319-86-8	delta-BHC	.010	U
58-89-9	gamma-BHC (Lindane)	.010	U
76-44-8	Heptachlor	.010	U
309-00-2	Aldrin	.010	U
1024-57-3	Heptachlor epoxide	.010	U
959-98-8	Endosulfan I	.010	U
60-57-1	Dieldrin	.010	U
72-55-9	4,4'-DDE	.010	U
72-20-8	Endrin	.010	U
33213-65-9	Endosulfan II	.010	U
72-54-8	4,4'-DDD	.010	U
1031-07-8	Endosulfan sulfate	.010	U
50-29-3	4,4'-DDT	.010	U
72-43-5	Methoxychlor	.010	U
53494-70-5	Endrin ketone	.010	U
7421-93-4	Endrin aldehyde	.010	U
5103-71-9	alpha-Chlordane	.010	U
5103-74-2	gamma-Chlordane	.010	U
8001-35-2	Toxaphene	.20	U
12674-11-2	Aroclor-1016	.10	U
11104-28-2	Aroclor-1221	.10	U
11141-16-5	Aroclor-1232	.10	U
53469-21-9	Aroclor-1242	.10	U
12672-29-6	Aroclor-1248	.10	U
11097-69-1	Aroclor-1254	.10	U
11096-82-5	Aroclor-1260	.10	U



Data File: >Z8451::D5 Quant Output File: ^Z8451::D5
Name: MET BLK Instrument ID: Z
Misc: N1P50111P,N1P50111,L:G2,1000,1:1,

Id File: IZP118::D5
Title: PESTICIDES 08-608 BY GC B2 (FRONT)
Last Calibration: 950119 08:06 Last Qcal Time: <none>

Operator ID: USER2
Quant Time : 950131 20:15
Injected at: 950131 19:33

QUANT REPORT Page 1

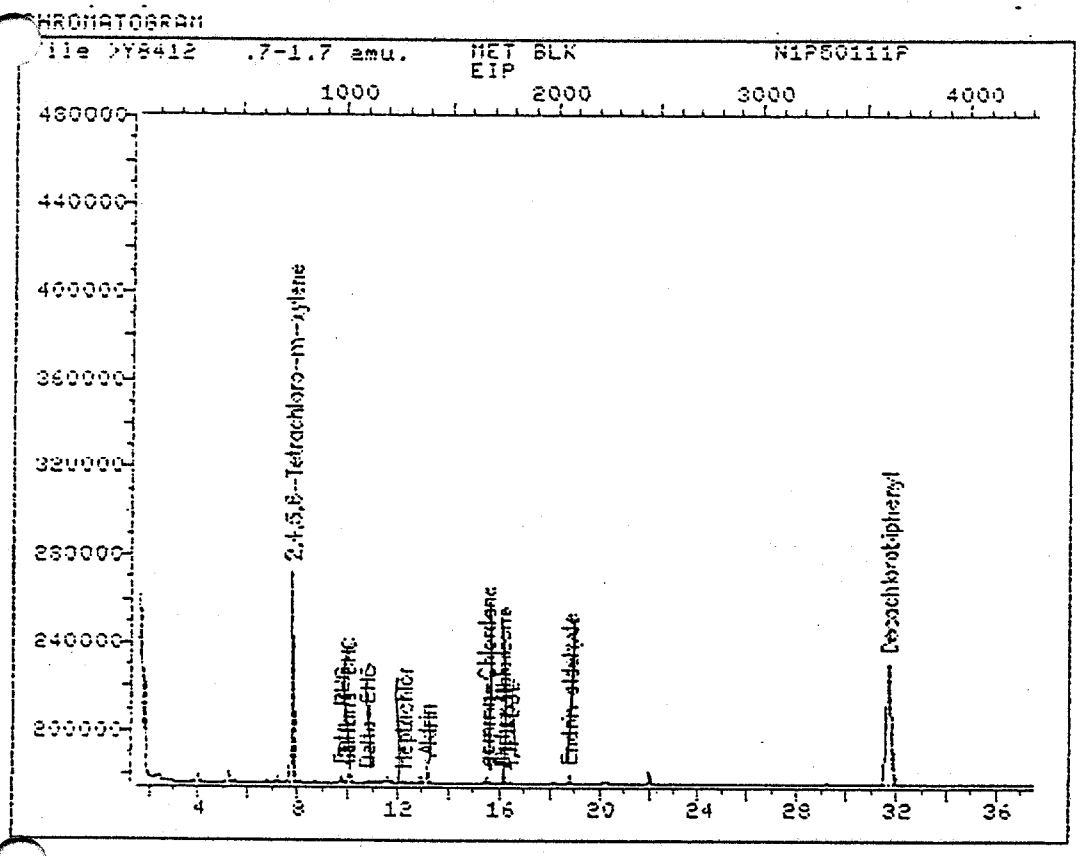
Operator ID: USER2 Quant Rev: 7 Quant Time: 950131 20:15
Output File: ^Z8451::05 Injected at: 950131 19:33
Data File: >Z8451::05 Dilution Factor: 1.00000
Name: MET BLK Instrument ID: Z
Misc: N1P50111P,N1P50111,L:G2,1000,1:1,

ID File: IZP118::05
Title: PESTICIDES 08-608 BY GC B2 (FRONT)
Last Calibration: 950119 08:06 Last Qcal Time: <none>

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#2,4,5,6-Tetrachloro-m-xylene	6.12	375	1833608	.311	ug/ml	100
3)	#Lindane	9.68	803	75903	~~.0186~~	~~ug/ml~~	~~100~~
4)	#Gamma-BHC	9.68	803	75903	~~.0186~~	~~ug/ml~~	~~100~~
7)	#Delta-BHC	11.01	962	39104	~~.00691~~	~~ug/ml~~	~~100~~
8)	#Aldrin	11.80	1057	77663	~~.0116~~	~~ug/ml~~	~~100~~
11)	#alpha-Chlordane	14.73	1408	77471	~~.0110~~	~~ug/ml~~	~~100~~
13)	#4,4'-DDE	15.66	1520	71615	~~.0126~~	~~ug/ml~~	~~100~~
14)	#Dieldrin	15.92	1552	43456	~~.00726~~	~~ug/ml~~	~~100~~
20)	#Endosulfan sulfate	19.12	1935	340291	~~.0786~~	~~ug/ml~~	~~100~~
)	#Decachlorobiphenyl	29.07	3129	2943908	~~.320~~ .385	ug/ml	100

Compound uses ESTD

Y8412
ak
2/1/95



Confirm

Data File: >Y8412::D5 Quant Output File: ^Y8412::D5
Name: MET BLK Instrument ID: Y
Misc: N1P50111P

Id File: IYP118::D5
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, B2R
Last Calibration: 950119 08:04 Last Qcal Time: <none>

Operator ID: USER2
Quant Time : 950131 20:59
Injected at: 950131 20:18

QUANT REPORT Page 1

Operator ID: USER2 Quant Rev: 7 Quant Time: 950131 20:59
Output File: ^Y8412::D5 Injected at: 950131 20:18
Data File: >Y8412::D5 Dilution Factor: 1.00000
Name: MET BLK Instrument ID: Y
Misc: N1P50111P

ID File: IYP118::D5
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, B2R
Last Calibration: 950119 08:04 Last Qcal Time: <none>

Con lim

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#2,4,5,6-Tetrachloro-m-xylene	7.73	748	455583	.336	ug/ml	100
3)	#Beta-BHC	9.72	987	15040	.0160	ug/ml	100
4)	#Gamma-BHC	9.97	1017	13920	.00251	ug/ml	100
5)	#Lindane	9.97	1017	13920	.00251	ug/ml	100
6)	#Delta-BHC	10.77	1113	10784	.0100	ug/ml	100
7)	#Heptachlor	12.20	1285	9599	.00556	ug/ml	100
8)	#Aldrin	13.13	1397	34847	.0233	ug/ml	100
10)	#gamma-Chlordane	15.44	1674	12863	.00723	ug/ml	100
11)	#alpha-Chlordane	16.08	1751	16959	.0121	ug/ml	100
12)	#Endosulfan I	16.08	1751	16959	.0121	ug/ml	100
13)	#4,4'-DDE	16.37	1785	8351	.00670	ug/ml	100
18)	#Endrin aldehyde	18.74	2070	21728	.0195	ug/ml	100
23)	#Decachlorobiphenyl	31.65	3619	713586	.385	ug/ml	100

Compound uses ESTD

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

0126 EPA SAMPLE NO.

PSPK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJ-DWW-001

Matrix: (soil/water) WATER Lab Sample ID: N1P50111PS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: ^Z8452

% Moisture: N/A decanted: (Y/N) N Date Received: 1/26/95

Extraction: (SepF/Cont/Sonc) 3580 Date Extracted: 01/27/95

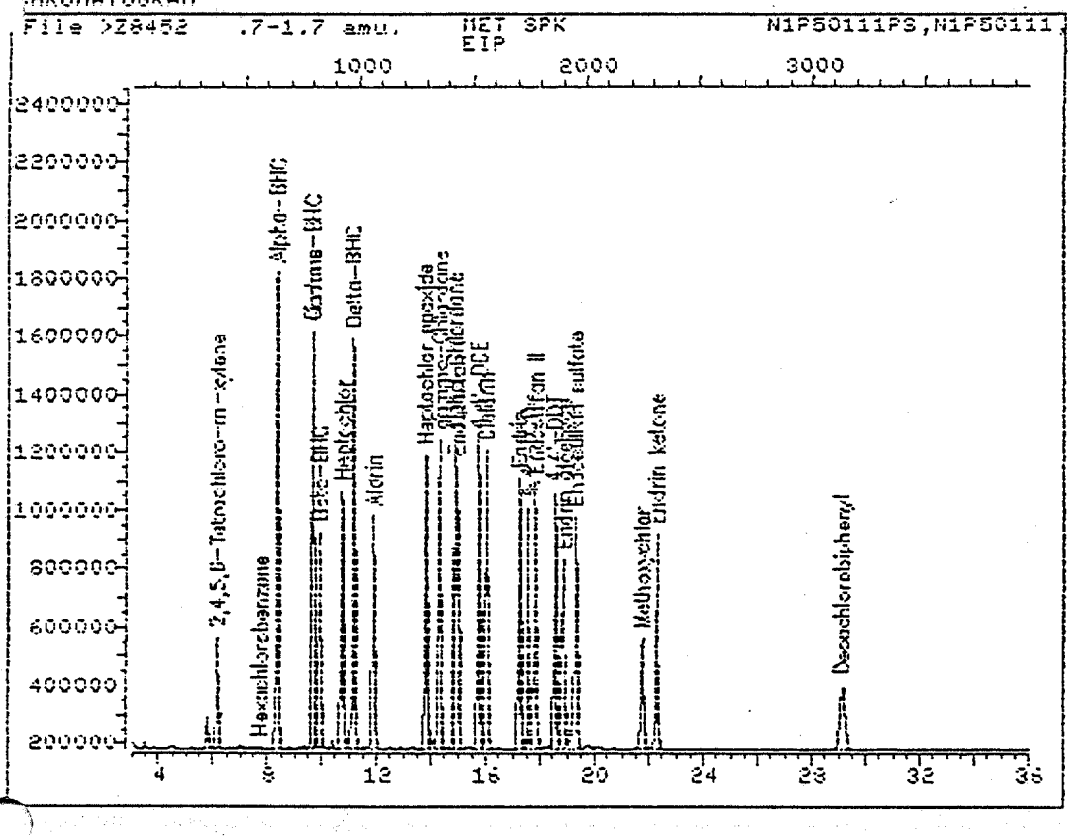
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	1.0	
319-85-7	beta-BHC	.85	
319-86-8	delta-BHC	1.2	
58-89-9	gamma-BHC (Lindane)	1.0	
76-44-8	Heptachlor	.67	
309-00-2	Aldrin	.70	
1024-57-3	Heptachlor epoxide	.87	
959-98-8	Endosulfan I	.98	
60-57-1	Dieldrin	.97	
72-55-9	4,4'-DDE	.97	
72-20-8	Endrin	1.0	
33213-65-9	Endosulfan II	.99	
72-54-8	4,4'-DDD	1.0	
1031-07-8	Endosulfan sulfate	1.0	
50-29-3	4,4'-DDT	1.1	
72-43-5	Methoxychlor	.99	
53494-70-5	Endrin ketone	.98	
7421-93-4	Endrin aldehyde	.82	
5103-71-9	alpha-Chlordane	.86	
5103-74-2	gamma-Chlordane	.83	
8001-35-2	Toxaphene	.20	U
12674-11-2	Aroclor-1016	.10	U
11104-28-2	Aroclor-1221	.10	U
11141-16-5	Aroclor-1232	.10	U
53469-21-9	Aroclor-1242	.10	U
12672-29-6	Aroclor-1248	.10	U
11097-69-1	Aroclor-1254	.10	U
11096-82-5	Aroclor-1260	.10	U

CHROMATOGRAM



Data File: >Z8452::D5 Quant Output File: ^Z8452::D5
Name: MET SPK Instrument ID: Z
Misc: N1P50111PS,N1P50111,L:G2,1000,1:1,

Id File: IZP118::D5
Title: PESTICIDES D8-608 BY GC B2 (FRONT)
Last Calibration: 950119 08:06 Last Qcal Time: <none>

Operator ID: USER2
Quant Time : 950131 21:00
Injected at: 950131 20:18

QUANT REPORT Page 1

Operator ID: USER2 Quant Rev: 7 Quant Time: 950131 21:00
Output File: ^Z8452::D5 Injected at: 950131 20:18
Data File: >Z8452::D5 Dilution Factor: 1.00000
Name: MET SPK Instrument ID: Z
Misc: N1P50111PS,N1P50111,L:G2,1000,1:1,

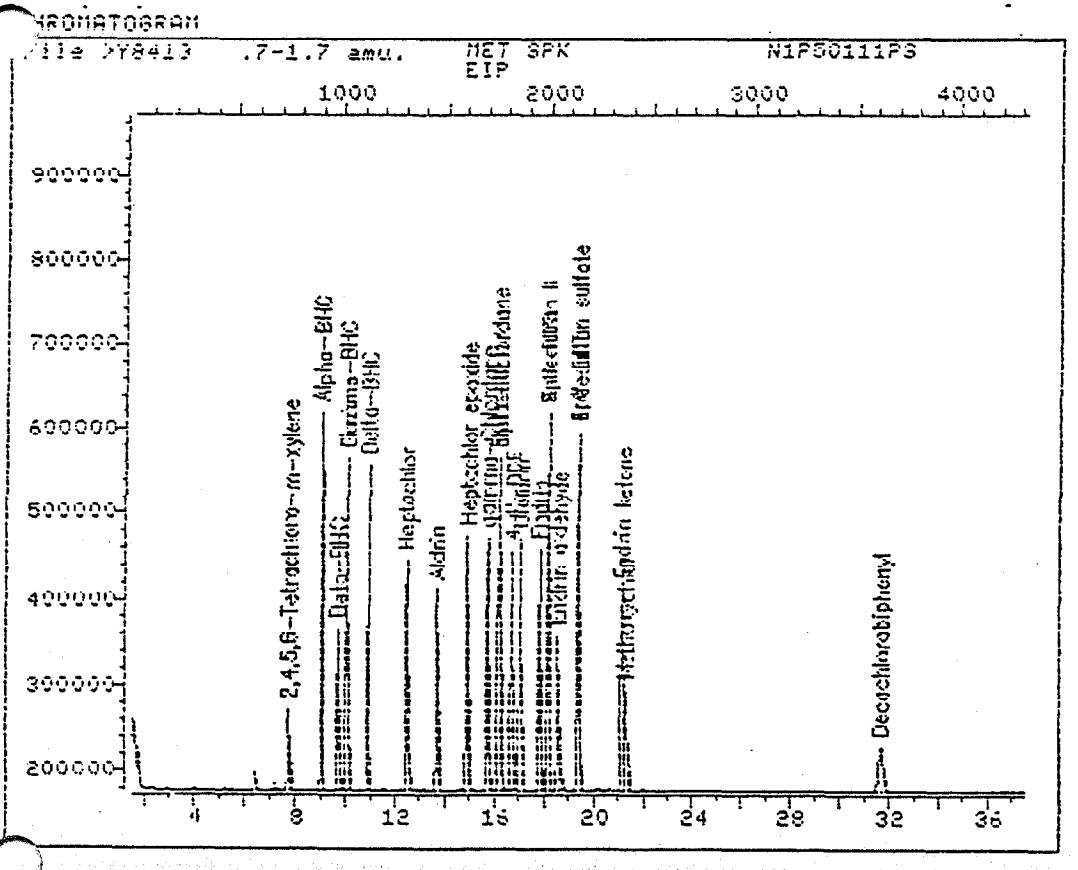
ID File: IZP118::D5
Title: PESTICIDES DB-608 BY GC B2 (FRONT)
Last Calibration: 950119 08:06 Last Qcal Time: <none>

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#2,4,5,6-Tetrachloro-m-xylene	6.12	375	1783496	.302	ug/ml	100
2)	#Alpha-BHC	8.33	640	8061035	1.03	ug/ml	100
3)	#Lindane	9.63	796	7130521	.998	ug/ml	100
4)	#Gamma-BHC	9.63	796	7130521	.998	ug/ml	100
5)	#Beta-BHC	9.86	824	3567677	.850	ug/ml	100
6)	#Heptachlor	10.72	927	5180067	.666	ug/ml	100
7)	#Delta-BHC	11.09	972	6790689	1.18	ug/ml	100
8)	#Aldrin	11.83	1060	4658465	.699	ug/ml	100
9)	#Heptachlor epoxide	13.72	1287	5764682	.867	ug/ml	100
10)	#gamma-Chlordane	14.26	1352	6124198	.829	ug/ml	100
11)	#alpha-Chlordane	14.81	1418	6057770	.860	ug/ml	100
12)	#Endosulfan I	14.90	1429	5112927	.978	ug/ml	100
13)	#4,4'-DDE	15.66	1520	5504245	.967	ug/ml	100
14)	#Dieldrin	15.93	1553	5810619	.971	ug/ml	100
15)	#Endrin	17.16	1700	5246256	1.02	ug/ml	100
16)	#4,4'-DDD	17.51	1742	4315157	1.03	ug/ml	100
17)	#Endosulfan II	17.76	1772	5105335	.994	ug/ml	100
18)	#4,4'-DDT	18.51	1862	4707830	1.13	ug/ml	100
19)	#Endrin aldehyde	18.85	1903	3633845	.817	ug/ml	100
20)	#Endosulfan sulfate	19.25	1951	4504895	1.04	ug/ml	100
21)	#Methoxychlor	21.68	2243	2637815	.986	ug/ml	100
22)	#Endrin ketone	22.24	2310	5335905	.977	ug/ml	100
23)	#Decachlorobiphenyl	29.08	3130	2821960	.364	ug/ml	100
33)	#Hexachlorobenzene	7.70	565	45120	0.00	ug/ml	100

Compound uses ESTD

4/14/95

GC
2/11/95



Confirm

Data File: >Y8413::D5 Quant Output File: ^Y8413::D5
Name: MET SPK Instrument ID: Y
Misc: N1P50111PS

Id File: IYP118::D5
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, B2R
Last Calibration: 950119 08:04 Last Qcal Time: <none>

Operator ID: USER2
Quant Time : 950131 21:44
Injected at: 950131 21:03

QUANT REPORT Page 1

Operator ID: USER2 Quant Rev: 7 Quant Time: 950131 21:44
Output File: ^Y8413::D9 Injected at: 950131 21:03
Data File: >Y8413::D9 Dilution Factor: 1.00000
Name: MET SPK Instrument ID: Y
Misc: N1P50111PS

ID File: IYP118::D9
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, 82R
Last Calibration: 950119 08:04 Last Qcal Time: <none>

Confirm

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#2,4,5,6-Tetrachloro-m-xylene	7.73	748	440437	.325	ug/ml	100
2)	#Alpha-BHC	8.98	899	2036919	.994	ug/ml	100
3)	#Beta-BHC	9.68	983	909639	.966	ug/ml	100
4)	#Gamma-BHC	10.02	1024	1819487	.986	ug/ml	100
5)	#Lindane	10.02	1024	1819487	.986	ug/ml	100
6)	#Delta-BHC	10.86	1124	1733362	1.01	ug/ml	100
7)	#Heptachlor	12.42	1312	1353708	.784	ug/ml	100
8)	#Aldrin	13.64	1458	1153873	.773	ug/ml	100
9)	#Heptachlor epoxide	14.89	1608	1499473	.971	ug/ml	100
10)	#gamma-Chlordane	15.67	1701	1512655	.909	ug/ml	100
11)	#alpha-Chlordane	16.13	1756	2729876	1.96	ug/ml	100
12)	#Endosulfan I	16.13	1756	2729876	1.96	ug/ml	100
13)	#4,4'-DDE	16.70	1825	1379086	1.11	ug/ml	100
14)	#Dieldrin	17.04	1866	1487094	1.07	ug/ml	100
15)	#Endrin	17.77	1953	1413326	1.12	ug/ml	100
16)	#Endosulfan II	18.09	1992	2261344	2.01	ug/ml	100
17)	#4,4'-DDD	18.09	1992	2261344	2.01	ug/ml	100
18)	#Endrin aldehyde	18.56	2048	944363	.846	ug/ml	100
19)	#4,4'-DDT	19.34	2142	2264948	2.06	ug/ml	100
20)	#Endosulfan sulfate	19.34	2142	2264948	2.06	ug/ml	100
21)	#Endrin ketone	21.12	2355	1390126	.969	ug/ml	100
22)	#Methoxychlor	21.28	2375	703076	1.06	ug/ml	100
23)	#Decachlorobiphenyl	31.65	3619	673774	.363	ug/ml	100

Compound uses ESTD

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: OHM CORPORATION ANALYTICAL DIVISION Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-DWW001

SOW No.:

EPA Sample No.	Lab Sample ID.
CLJ-DWW001	JN7550

Were ICP interelement corrections applied? Yes/No YES

Were ICP backgrounds corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

See SDG Narrative

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: [signature] Name: William A. Fothiin

Date: 5/15/94 Title: Technical Project Manager

Narrative for SDG # CLJ-DWW-01

TCLP Metals

Sodium did not pass initial calibration criteria but should not negatively impact the data validity.

All of the continuing calibration criteria were within QC limits.

The CRDL standard met all QC criteria.

Low levels of Barium, Cadmium, Calcium and Sodium were detected in the initial and/or continuing calibration blanks. This anomaly should not impact the validity of the data generated.

Low levels of Calcium, Sodium, Aluminum and Manganese were detected in the method blank. This anomaly should not impact the validity of the data generated.

High spike recoveries were noted for Aluminum, Iron and Lead.

Low spike recoveries were noted for Selenium.

Duplicate results were >20% for Iron. This will have minimal impact on the validity of the data submitted.

All Laboratory Control Samples (LCS) were within acceptable QC limits.

All holding times were met for this SDG.

No Quarterly Linearity Checks are available for this SDG.

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

CLJ-DWW001

Lab Name: OHM CORPORATION ANALYTICAL DIVISION Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-DWW001

Matrix (soil/water): WATER Lab Sample ID: JN7550

Level (low/med): LOW Date Received: 01/26/95

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3320		N	P
7440-36-0	Antimony	29.8	U		P
7440-38-2	Arsenic	2	U		F
7440-39-3	Barium	27.3	B		P
7440-41-7	Beryllium	0.5	U		P
7440-43-9	Cadmium	1.1	U		P
7440-70-2	Calcium	12700			P
7440-47-3	Chromium	5.9	U		P
7440-48-4	Cobalt	3.7	U		P
7440-50-8	Copper	25.8			P
7439-89-6	Iron	15000		N*	P
7439-92-1	Lead	236		N	P
7439-95-4	Magnesium	755	B		P
7439-96-5	Manganese	85.6			P
7439-97-6	Mercury	0.28			CV
7440-02-0	Nickel	9.5	U		P
7440-09-7	Potassium	1490	U		P
7782-49-2	Selenium	1.3	U	N,W	F
7440-22-4	Silver	5.8	U		P
7440-23-5	Sodium	2480	B		P
7440-28-0	Thallium	2.1	U		F
7440-62-2	Vanadium	4.2	U		P
7440-66-6	Zinc	109			P
	Cyanide				

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

U.S. EPA - CLP
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: OHM CORPORATION ANALYTICAL DIVISION Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-DW W001

Initial Calibration Source: NIST

Continuing Calibration Source: NIST

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Found	%R(1)	M
Aluminum	10100.0	10020.0	99.2	4930.0	4798.0	97.3	4809.0	97.5	P
Antimony	5490.0	5448.0	99.2	2470.0	2465.0	99.8	2465.0	99.8	P
Arsenic	30.0	30.7	102.3	20.0	19.92	99.6			F
Barium	9820.0	9801.0	99.8	4900.0	4688.00	95.7	4699.0	95.9	P
Beryllium	245.0	242.5	99.0	528.0	512.50	97.1	515.2	97.6	P
Cadmium	2940.0	2862.0	97.3	1220.0	1231.00	100.9	1230.0	100.8	P
Calcium	26100.0	25610.0	98.1	11940.0	12180.00	102.0	12290.0	102.9	P
Chromium	1020.0	1006.0	98.6	527.0	526.60	99.9	527.8	100.2	P
Cobalt	2810.0	2766.0	98.4	1210.0	1206.0	99.7	1209.0	99.9	P
Copper	1370.0	1351.0	98.6	647.0	609.9	94.3	609.9	94.3	P
Iron	5220.0	5160.0	98.9	2440.0	2392.0	98.0	2406.0	98.6	P
Lead	5490.0	5349.0	97.4	2510.0	2563.00	102.1	2579.0	102.7	P
Magnesium	25700.0	25250.0	98.2	12420.0	12460.00	100.3	12570.0	101.2	P
Manganese	2840.0	2800.0	98.6	1220.0	1180.00	96.7	1199.0	98.3	P
Mercury	5.0	4.6	91.0	5.0	4.45	89.0	4.5	89.4	CV
Nickel	2760.0	2705.0	98.0	1200.0	1196.00	99.7	1209.0	100.8	P
Potassium	26100.0	25860.0	99.1	11880.0	12040.00	101.3	12040.0	101.3	P
Selenium									
Silver	1170.0	1224.0	104.6	663.0	645.80	97.4	652.6	98.4	P
Sodium	23400.0	2367.00	10.1	11360.0	11170.00	98.3	11320.00	99.6	P
Thallium									
Vanadium	5130.0	5075.00	98.9	2460.0	2409.00	97.9	2421.00	98.4	P
Zinc	2660.0	2644.00	99.4	1200.0	1177.00	98.1	1190.00	99.2	P
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: OHM CORPORATION ANALYTICAL DIVISION Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-DW W001

Initial Calibration Source: NIST

Continuing Calibration Source: NIST

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum				4930.0	4841.0	98.2			P
Antimony				2470.0	2472.0	100.1			P
Arsenic									
Barium				4900.0	4704.00	96.0			P
Beryllium				528.0	516.00	97.7			P
Cadmium				1220.0	1231.00	100.9			P
Calcium				11940.0	12280.00	102.8			P
Chromium				527.0	528.60	100.3			P
Cobalt				1210.0	1205.0	99.6			P
Copper				647.0	607.5	93.9			P
Iron				2440.0	2394.0	98.1			P
Lead				2510.0	2564.00	102.2			P
Magnesium				12420.0	12540.00	101.0			P
Manganese				1220.0	1192.00	97.7			P
Mercury				5.0	4.40	88.0			CV
Nickel				1200.0	1198.00	99.8			P
Potassium				11880.0	11660.00	98.1			P
Selenium									
Silver				663.0	653.30	98.5			P
Sodium				11360.0	11280.00	99.3			P
Thallium									
Vanadium				2460.0	2419.00	98.3			P
Zinc				1200.0	1190.00	99.2			P
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: OHM CORPORATION ANALYTICAL DIVISION Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-DW W001

Initial Calibration Source: APG

Continuing Calibration Source: APG

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium	40.0	40.49	101.2	20.0	20.14	100.7			F
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: OHM CORPORATION ANALYTICAL DIVISION Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-DW Wool

Initial Calibration Source: SPEX

Continuing Calibration Source: EVIRONMENTAL EXPRESS

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium	35.0	36.60	104.6	20.0	22.10	110.5			F
Vanadium									
Zinc									
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP
3
BLANKS

Lab Name: OHM CORPORATION ANALYTICAL DIVISION Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-DWW0c1

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	59.9	U	59.9	U	59.9	U	59.9	U	114.000	B	P
Antimony	29.8	U	29.8	U	29.8	U	29.8	U	29.800	U	P
Arsenic	2.0	U	2.0	U					2.000	U	F
Barium	1.5	B	1.3	U	2.7	B	1.3	U	1.300	U	P
Beryllium	0.5	U	0.5	U	0.5	U	0.5	U	0.500	U	P
Cadmium	1.1	B	1.1	U	1.1	U	1.1	U	1.100	U	P
Calcium	6.3	U	38.2	B	11.4	B	20.4	U	153.300	B	P
Chromium	5.9	U	5.9	U	5.9	U	5.9	U	5.900	U	P
Cobalt	3.7	U	3.7	U	3.7	U	3.7	U	3.700	U	P
Copper	5.5	U	5.5	U	5.5	U	5.5	U	5.500	U	P
Iron	13.9	U	13.9	U	13.9	U	13.9	U	139.000	U	P
Lead	17.9	U	2.0	U	2.0	U	2.0	U	2.000	U	F
Magnesium	33.5	U	33.5	U	33.5	U	33.5	U	33.500	U	P
Manganese	1.2	U	1.2	U	1.2	U	1.2	U	2.300	B	P
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	0.140	U	CV
Nickel	9.5	U	9.5	U	9.5	U	9.5	U	9.500	U	P
Potassium	1490.0	U	1490.0	U	1490.0	U	1490.0	U	1490.	U	P
Selenium	1.3	U	1.3	U					1.300	U	F
Silver	5.8	U	5.8	U	5.8	U	5.8	U	5.800	U	P
Sodium	53.6	U	69.3	B	105.0	B	98.1	B	53.600	U	P
Thallium	2.0	U	2.0	U					2.000	U	F
Vanadium	4.2	U	4.2	U	4.2	U	4.2	U	4.200	U	P
Zinc	4.3	U	4.3	U	4.3	U	4.3	U	4.300	U	P
Cyanide											

U.S. EPA - CLP
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: OHM CORPORATION ANALYTICAL DIVISION Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-DW W001

ICP ID Number: 61 ICS Source: VENTURES

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500700	554000	493800	502500.0	90.7	486000	503800.0	90.9
Antimony	0	1020	3	968.0	94.9	34	964.6	94.6
Arsenic								
Barium	0	507	3	495.1	97.7	2	494.0	97.4
Beryllium	0	536	0	497.9	92.9	0	504.2	94.1
Cadmium	0	1020	11	995.9	97.6	10	1014.0	99.4
Calcium	191100	255000	193500	244200.0	95.8	188100	241700.0	94.8
Chromium	0	497	-8	487.0	98.0	-8	489.8	98.6
Cobalt	0	498	-5	485.7	97.5	-5	488.1	98.0
Copper	0	519	14	473.2	91.2	10	469.6	90.5
Iron	181800	198000	189300	191200.0	96.6	185000	190000.0	96.0
Lead	0	1040	44	1077.0	103.6	71	1096.0	105.4
Magnesium	252500	280000	263900	265100.0	94.7	265500	271500.0	97.0
Manganese	0	509	-6	498.3	97.9	-3	487.1	95.7
Mercury								
Nickel	0	987	-2	931.7	94.4	-6	936.7	94.9
Potassium								
Selenium								
Silver	0	1100	-7	906.7	82.4	-12	889.9	80.9
Sodium								
Thallium								
Vanadium	0	514	3	504.6	98.2	4	515.2	100.2
Zinc	0	1160	35	1003.0	86.5	43	1011.0	87.2

U.S. EPA - CLP
5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

CLJ-DWW001

Lab Name: OHM CORPORATION ANALYTICAL DIVISION Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-DWW001

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample:

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	16400.0000		3320.0000		9960.00	131.3	N	P
Antimony	75-125	373.0000		0.0000		463.00	80.6		P
Arsenic	75-125	22.3000		0.0000		20.00	111.5		F
Barium	75-125	1710.0000		27.3000		1910.00	88.1		P
Beryllium	75-125	43.9000		0.1400		49.20	88.9		P
Cadmium	75-125	45.0000		0.7900		49.30	89.7		P
Calcium	75-125	21600.0000		12700.0000		9890.00	90.0		P
Chromium	75-125	213.0000		5.8000		199.00	104.1		P
Cobalt	75-125	424.0000		0.7800		488.00	86.7		P
Copper	75-125	247.0000		25.8000		241.00	91.8		P
Iron	75-125	43200.0000		15000.0000		9790.00	288.0	N	P
Lead	75-125	937.0000		236.0000		521.00	134.5	N	P
Magnesium	75-125	11000.0000		755.0000	B	10000.00	102.5		P
Manganese	75-125	587.0000		85.6000		492.00	101.9		P
Mercury	75-125	2.3100		0.2800		2.00	101.5		CV
Nickel	75-125	430.0000		0.4000		484.00	88.8		P
Potassium	75-125	9750.0000		476.0000		9380.00	98.9		P
Selenium	75-125	10.4000		0.0000		20.00	52.0	N	F
Silver	75-125	47.2000		0.0000		47.80	98.7		P
Sodium	75-125	10400.0000		2480.0000	B	9150.00	86.6		P
Thallium	75-125	16.0000		0.0000		20.00	80.0		F
Vanadium	75-125	437.0000		3.7200		492.00	88.1		P
Zinc	75-125	547.0000		109.0000		485.00	90.3		P
Cyanide									

Comments:

U.S. EPA - CLP
6
DUPLICATES

EPA SAMPLE NO.
CLJ-DWW001

Lab Name: OHM CORPORATION ANALYTICAL DIVISION Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-DWW001

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: % Solids for Duplicate:

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		16400.0000		15000.0000		8.9		P
Antimony		373.0000		384.0000		2.9		P
Arsenic		22.3000		23.5000		5.2		F
Barium		1710.0000		1690.0000		1.2		P
Beryllium		43.9000		44.3000		0.9		P
Cadmium		45.0000		46.0000		2.2		P
Calcium		21600.0000		21400.0000		0.9		P
Chromium		213.0000		191.0000		10.9		P
Cobalt		424.0000		432.0000		1.9		P
Copper		247.0000		241.0000		2.5		P
Iron		43200.0000		32900.0000		27.1	*	P
Lead		937.0000		842.0000		10.7		P
Magnesium		11000.0000		9720.0000		12.4		P
Manganese		587.0000		542.0000		8.0		P
Mercury		2.3100		2.4700		6.7		CV
Nickel		430.0000		438.0000		1.8		P
Potassium		9750.0000		8850.0000		9.7		P
Selenium		10.4000		9.0600		13.8		F
Silver		47.2000		41.1000		13.8		P
Sodium		10400.0000		10500.0000		1.0		P
Thallium		16.0000		16.4000		2.5		F
Vanadium		437.0000		442.0000		1.1		P
Zinc		547.0000		533.0000		2.6		P
Cyanide								

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

0142

Lab Name: *Analytical Services Corp* Contract: NFESA

Lab Code: NA Case #: 15226N SAS #: NA SDG #: ~~NA~~ CLJ-DWW-xx

DW No.: NA

EPA Sample No.	Lab Sample ID.
CLJ-DWW001	JW7550

Were ICP interelement corrections applied? Yes/NO ___

Were ICP background corrections applied? Yes/NO ___

If YES - were raw data generated before application of background corrections? Yes/NO ___

COMMENTS: See SDG Narrative

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's Designee, as verified by the following signature.

Signature: [signature] Name: William A. Fothi

Date: 5/15/95 Title: Technical Project Manager

Narrative for SDG # CLJ-DWW-01

Conventionals

CLP Forms and/or analytical requirements do not apply to all Conventional Level C deliverable requirements. Every effort was made to conform to the CLP format and all applicable CLP/Level C forms have been included.

The pH results are reported in standard units and not mg/kg.

The method qualifier for pH (Electrode) is "PH", for Oil and Grease it is "OG", for Total Suspended Solids it is "TS" and for Total Dissolved Solids it is "TD". The CLP manual does not address these results or this method for reporting.

The method blank was within QC limits for this SDG.

There was insufficient sample supplied to perform a matrix spike and/or sample replicate for the Oil and Grease, Total Suspended Solids and Total Dissolved Solids analysis.

The matrix spike and sample duplicate were within QC limits for this SDG.

All initial and continuing calibration criteria were met for this SDG.

The LCS was within acceptable QC limits.

All sample holding times were met for this SDG.

BLANKS (3)

Lab Name: *Analytical Services Corp* Contract: NEESA Lab Code: NA

Case #: 15226N SAS #: NA SDG #: CLS-DUMO-0 NA

Prep Blank Matrix: (soil/water) WATER

Prep Blank Concentration Units: (ug/L or mg/kg) ug/L

ANALYTE	INITIAL CALIBRATION BLANK (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum											
Antimony											
Arsenic											
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead											
Magnesium											
Manganese											
Mercury											
Nieckl											
Potassium											
Selenium											
Silver											
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide	.000	U							.000	U	C4

BLANKS (3)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **Lab Code:** NA

Case #: 15226 N **SAS #:** NA **SDG #:** CLT-DW3-C NA

Prep Blank Matrix: (soil/water) WATER

Prep Blank Concentration Units: (ug/L or mg/kg) ug/L

ANALYTE	Init Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Reactive Cyanide											
Reactive Sulfide											
Oil And Grease									.000	U	OG

INORGANIC ANALYSIS DATA SHEET (1) 0146

Lab Name: *Analytical Services Corp* Contract: NEESA EPA SAMPLE #: CLJ-DUW001

Lab Code: NA Case #: 15226J SAS #: NA SDG #: CLJ-DUW-001 NA

Matrix: (soil/water) WATER Level: (low/med) LOW Lab Sample ID: JN7550

% Solids: NA Date Received: 01/26/95

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7439-89-6	Iron				
7439-92-1	Lead				
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nckel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide	10.0	U		CY

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CKJ-DWW6

Lab Code: NA **Case #:** 15226N **SAS #:** NA **SDG #:** CKJ-DWW6 NA

Matrix: (soil/water) WATER **Level:** (low/med) LOW **Lab Sample ID:** JN750

% Solids: NA **Date Received:** 01/26/9

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide				
	Reactive Sulfide				
	Flashpoint, 60°C				
	pH (Electrode)	7.79			PH
	Oil And Grease	515,000			OG
	Solids, Total Suspended	155,000			TS
	Solids, Total Dissolved	170,000			TD

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

SPIKE SAMPLE RECOVERY (5A)

Lab Name: *Analytical Services Corp* Contract: NBESA EPA Sample #: CJT-DW002 / CWS-DW00-0

Lab Code: NA Case #: 15226N SAS #: NA SDG #: NA

Matrix: (soil/water) WATER Level (low/med): LOW % Solids for Sample: NA

Concentration Units (ug/L or mg/kg dry weight): ug/L

ANALYTE	CONTROL LIMIT %R	SPIKE SAMPLE RESULT (SSR)	C	SAMPLE RESULT (SR)	C	SPIKE ADDED (SA)	%R	Q	M
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury									
Nieckl									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide	85-115	.186		.000		.195	95.4		CA

COMMENTS: ______________________________

DUPLICATES (6)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA Sample #:** CLJ-DUP10-0

Lab Code: NA **Case #:** 15286N **SAS #:** NA **SDG #:** CLJ-DUP10-0 LIA

Matrix: (soil/water) WATER **% Solids for Sample:** NA

Level (low/med): LOW **% Solids for Duplicate:** NA

Concentration Units (ug/L or mg/kg dry weight): ug/L

ANALYTE	CONTROL LIMIT	SAMPLE (S)	C	DUPLICATE (D)	C	RPD	Q	M
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
Nieckl								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								
Cyanide	85-115	.186		.186		.000		CY

LABORATORY CONTROL SAMPLE (7) 0150

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: NA **Case #:** 15226N **SAS #:** NA **SDG #:** ~~NA~~ CLJ-DWW-0

Solid LCS Source: NA **Aqueous LCS Source:** CV-0189

ANALYTE	AQUEOUS (ug/L) True	Found	%R	SOLID (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide	.195	.193	99.0						

LABORATORY CONTROL SAMPLE (7)

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: NA **Case #:** 15226.N **SAS #:** NA **SDG #:** CLJ-Dioxin HH

Solid LCS Source: NA **Aqueous LCS Source:** AQ-077

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)					
	True	Found	% R	True	Found	C	Limits		% R
Reactive Cyanide									
Reactive Sulfide									
Oil And Grease	718	179	82.2						