02.08-03/01/97-02293

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

Volume VII of IX

Prepared for:

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

Prepared by

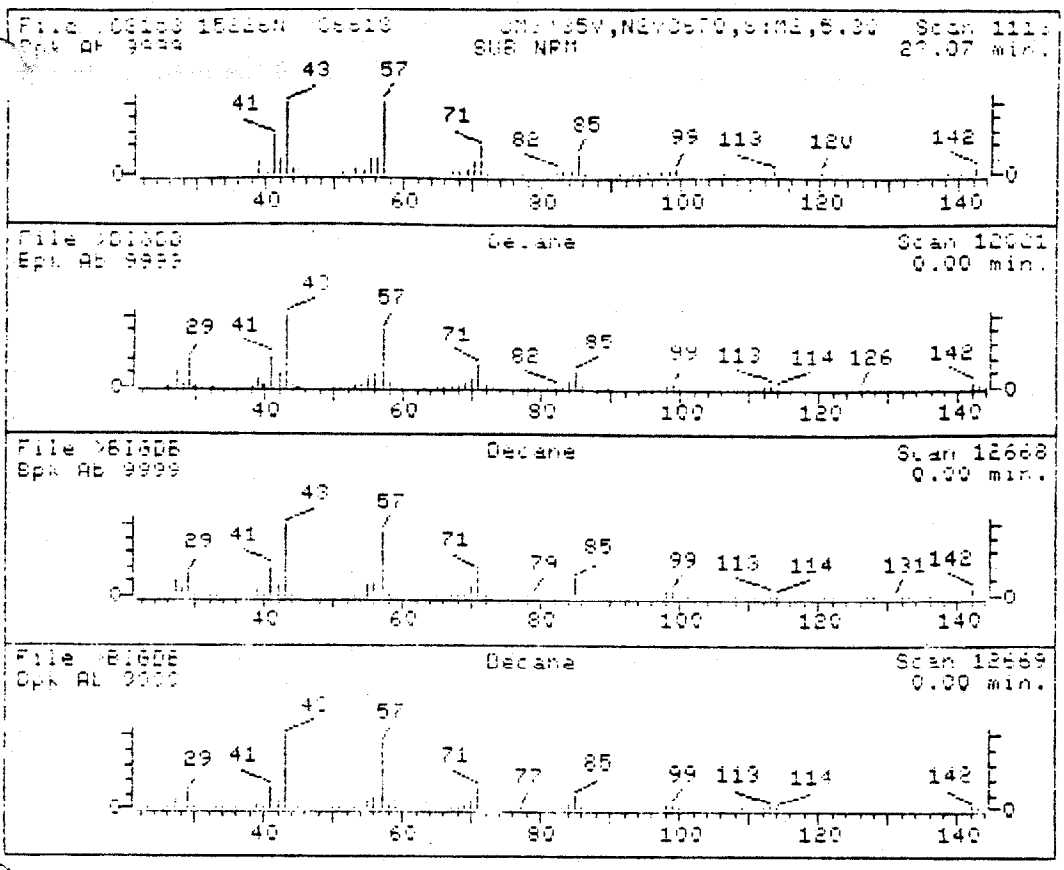
OHM Remediation Services Corp.
A Subsidiary of OHM Corporation

5335 Triangle Parkway, Suite 450
Norcross, GA 30092

March 1997

OHM Project No. 15226

02.08-03/01/97-02293 **0122**

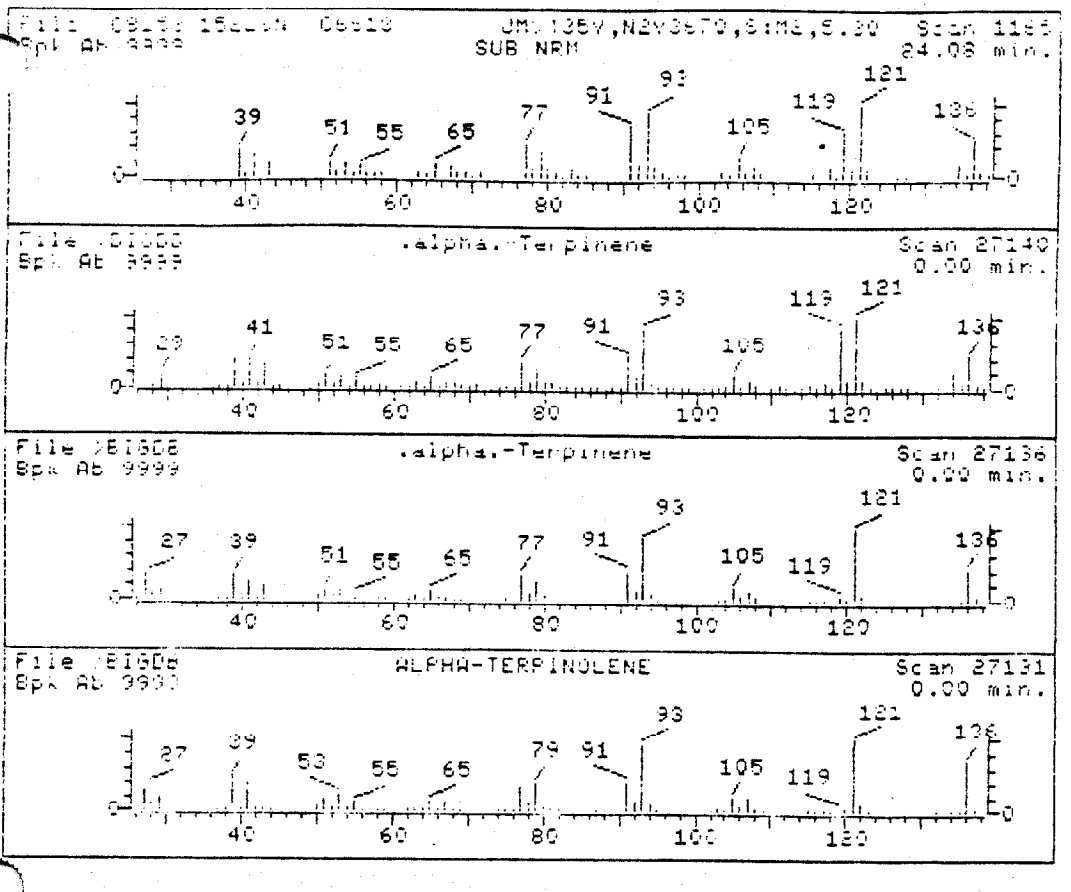


Data File: >C8153::05
Name: 15226N C4618
Misc Data: JM9435U,NOU3670,S:M2,5.30,F:1,
RT (min): 23.07
Scan: 1113
Area: 94752 Rank: 8
Semi-quantitative Conc (uncorrected): 14.02 ug/l
Semi-quantitative Conc (corrected): 2.65 ug/kg x.005 x.426 = .006
Calculated using Istd: CHLOROBENZENE-45 (ISTD) @ 19.59 minutes

1. Decane 142 C10H22
2. Decane 142 C10H22
3. Decane 142 C10H22

Sample file: >C8153 Spectrum #: 1113
Search speed: 2 Tilting option: S No. of ion ranges searched: 56

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
95*	124185	12021	"BIGDB	84	13	1	0	98	2	72	93
89*	124185	12668	"BIGDB	72	28	1	0	88	2	66	71
87*	124185	12469	"BIGDB	62	31	2	0	112	4	63	49

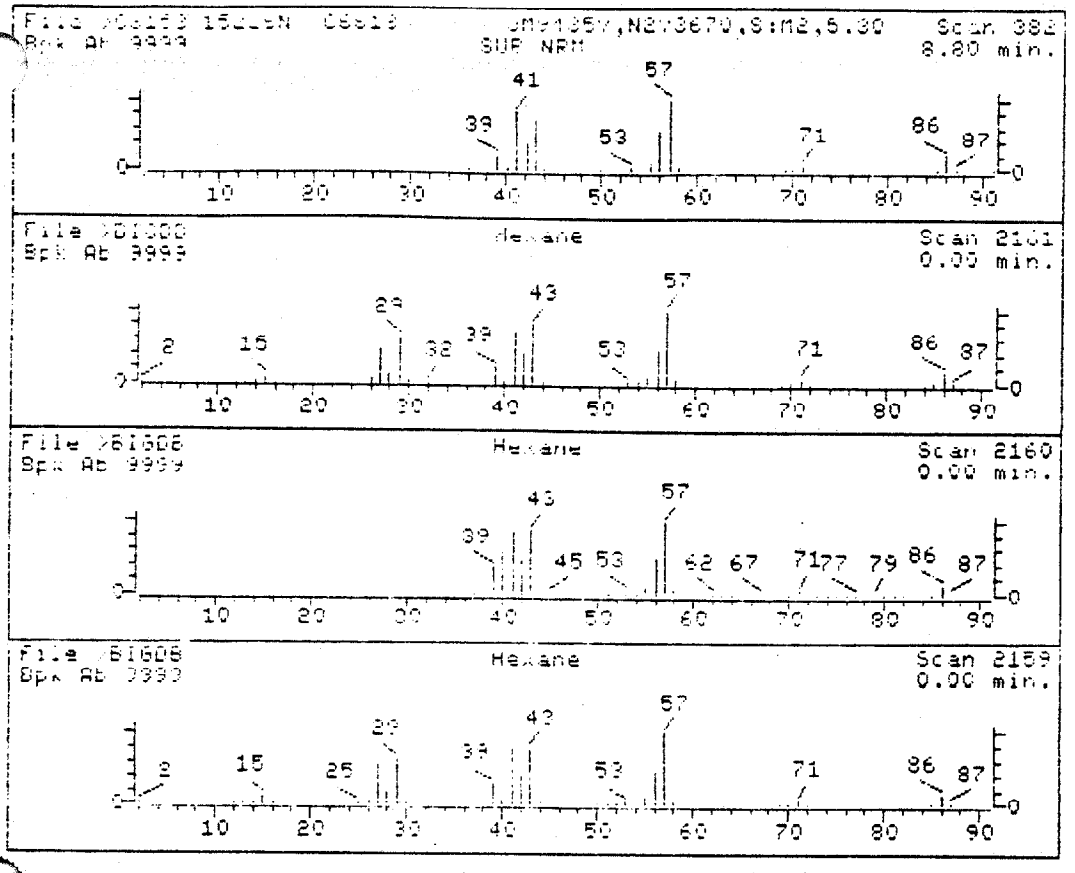


Data File: >C9153::D5
Name: 1522AN C66'8
Misc Data: JM9435U,N2U3670,S:M2,5.30,5:1,
RT (min): 24.08
Scan: 1165
Area: 86792 Rank: 9
Semi-quantitative Conc (uncorrected): 12.84 ug/l
Semi-quantitative Conc (corrected): 2.42 ug/kg x.005 x.426 = .005
Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 19.59 minutes

1. .alpha.-Terpinene 136 C10H16
2. .alpha.-Terpinene 136 C10H16
3. ALPHA-TERPINOLENE 136 C10H16

Sample file: >C9153 Spectrum #: 1165
Search speed: 2 Tilting option: S No. of ion ranges searched: 49

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
94*	99865	27140	"BIGDB	102	17	1	0	91	17	60	95
94*	99865	27136	"BIGDB	93	20	0	0	100	24	53	96
94*	586629	27131	"BIGDB	98	33	0	0	70	25	53	96

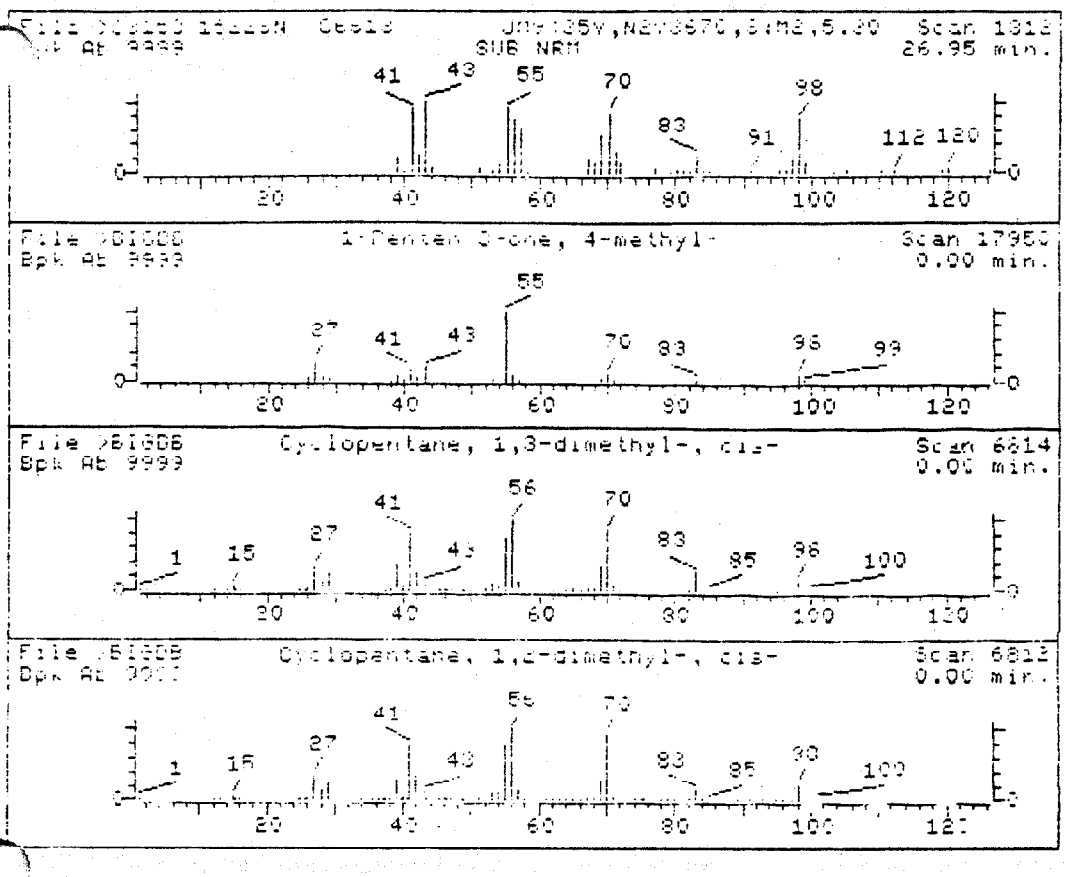


Data File: >C8153::DF
Name: 1522AN C6618
Misc Data: JM9435U,N2U3670,S:M2,5.30,5:1,
RT (min): 8.80
Scan: 382
Area: 64781 Rank: 10
Semi-quantitative Conc (uncorrected): 10.17 ug/l
Semi-quantitative Conc (corrected): 1.92 ug/kg
Calculated using Istd: BROMOCHLOROMETHANE (ISTD) @ 10.81 minutes

1.	Hexane	86 C6H14
2.	Hexane	86 C6H14
3.	Hexane	86 C6H14

Sample file: >C8153 Spectrum #: 382
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	84*	110543	2161	"BIGDB	51	43	0	0	88	9	55	61
2.	81*	110543	2160	"BIGDB	59	31	2	0	81	8	53	45
3.	79*	110543	2159	"BIGDB	56	40	0	0	92	11	43	67

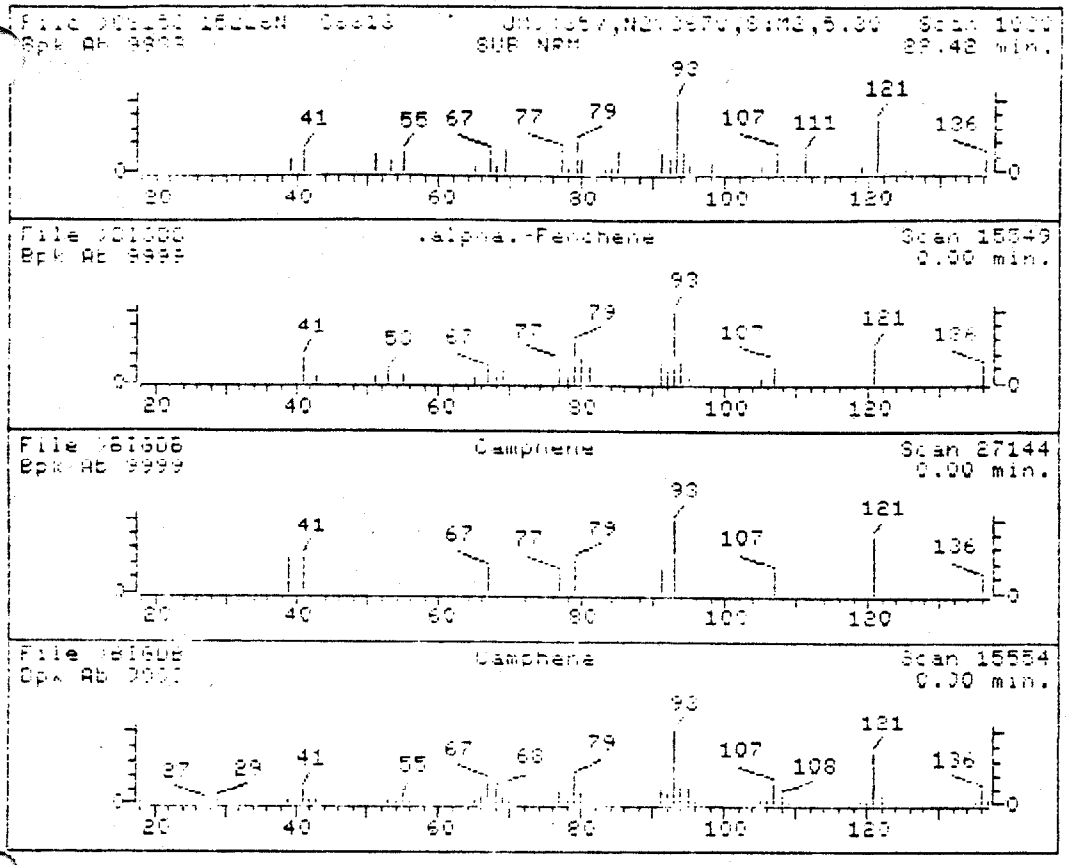


Data File: >C8153::D5
Name: 15224N C66'8
Misc Data: JM9435U,N2U3670,S:M2,5.30,5:1,
RT (min): 26.95
Scan: 1312
Area: 63316 Rank: 11
Semi-quantitative Conc (uncorrected): 9.37 ug/l
Semi-quantitative Conc (corrected): 1.77 ug/kg .005 x .426 = .004
Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 19.59 minutes

1. 1-Penten-3-one, 4-methyl- 98 C6H10O
2. Cyclopentane, 1,3-dimethyl-, cis- 98 C7H14
3. Cyclopentane, 1,2-dimethyl-, cis- 98 C7H14

Sample file: >C8153 Spectrum #: 1312
Search speed: 2 Tilting option: S No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
	60*	1606479	17950	"BIGDB	23	54	3	0	772	15	30	12
	46*	2532583	6814	"BIGDB	38	63	0	0	73	40	17	35
3.	41*	1192183	6812	"BIGDB	35	67	0	0	64	45	14	31

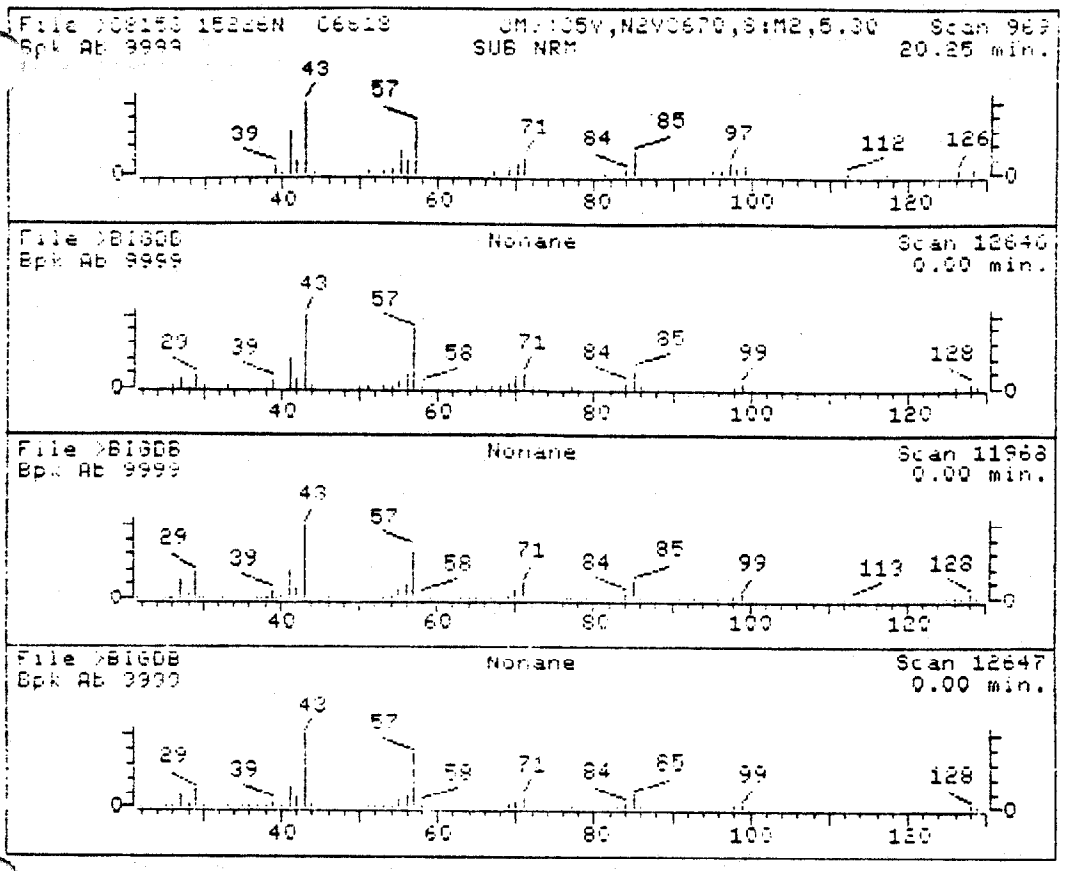


Data File: >C8153::05
Name: 15026N CAA19
Misc Data: JM9435U,N2U3670,S:M2,5.30,F:1,
RT (min): 27.40
Scan: 1080
Area: 57720 Rank: 12
Semi-quantitative Conc (uncorrected): 8.54 ug/l
Semi-quantitative Conc (corrected): 1.61 ug/kg x.005 x .426 = .003
Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 19.59 minutes

1. .alpha.-Fenchene 136 C10H16
2. Camphene 136 C10H16
3. Camphene 136 C10H16

Sample file: >C8153 Spectrum #: 1080
Search speed: 2 Tilting option: S No. of ion ranges searched: 51

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
	73*	471841	15549	"BIGDB	62	55	1	0	70	25	32	60
	67*	79925	27144	"BIGDB	65	16	1	-2	76	28	27	53
>.	63*	79925	15554	"BIGDB	73	48	3	1	100	17	30	31



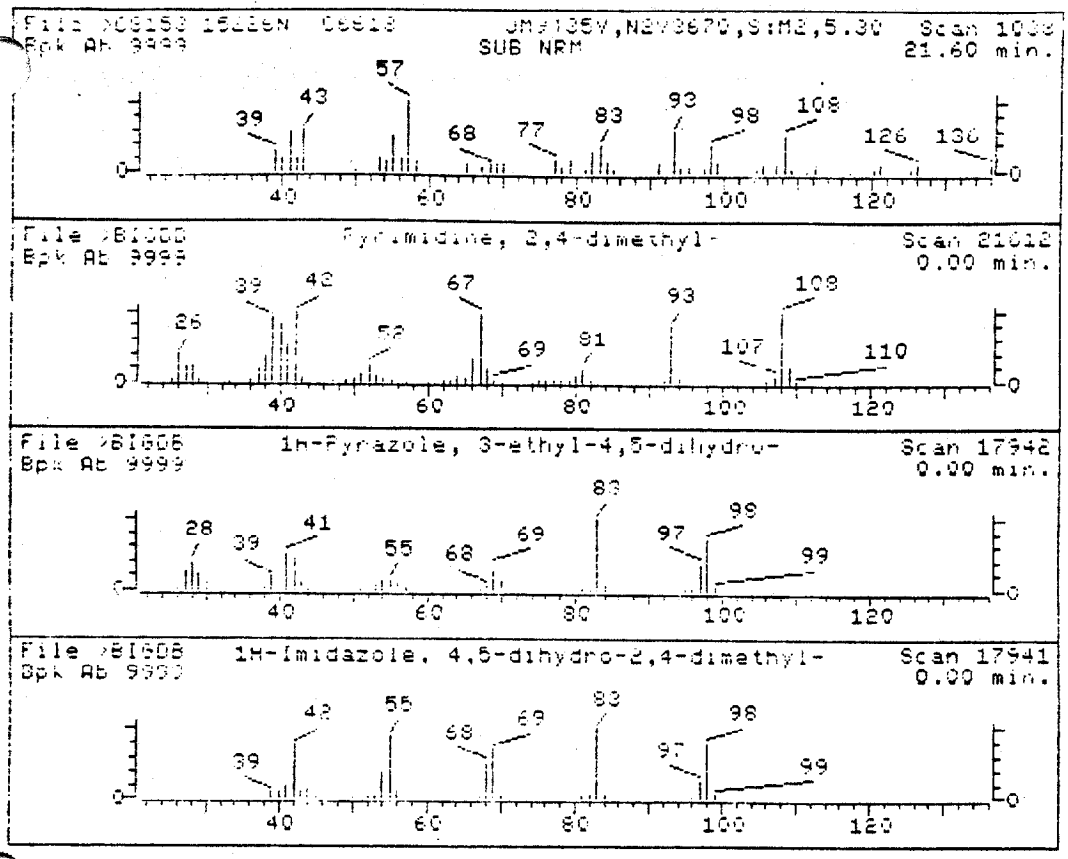
Data File: >C8153::D5
Name: 15226N C6618
Misc Data: JM9435V,N2V3670,S:M2,5.30,5:1,
RT (min): 20.25
Scan: 969
Area: 52727 Rank: 13
Semi-quantitative Conc (uncorrected): 7.80 ug/l
Semi-quantitative Conc (corrected): 1.47 ug/kg
Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 19.59 minutes

.426 × .005 = .003

1. Nonane 128 C9H20
2. Nonane 128 C9H20
3. Nonane 128 C9H20

Sample file: >C8153 Spectrum #: 969
Search speed: 2 Tilting option: S No. of ion ranges searched: 52

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
64*	111842	12646	"BIGDB	60	35	2	0	88	21	28	43
62*	111842	11968	"BIGDB	61	35	2	0	100	27	25	43



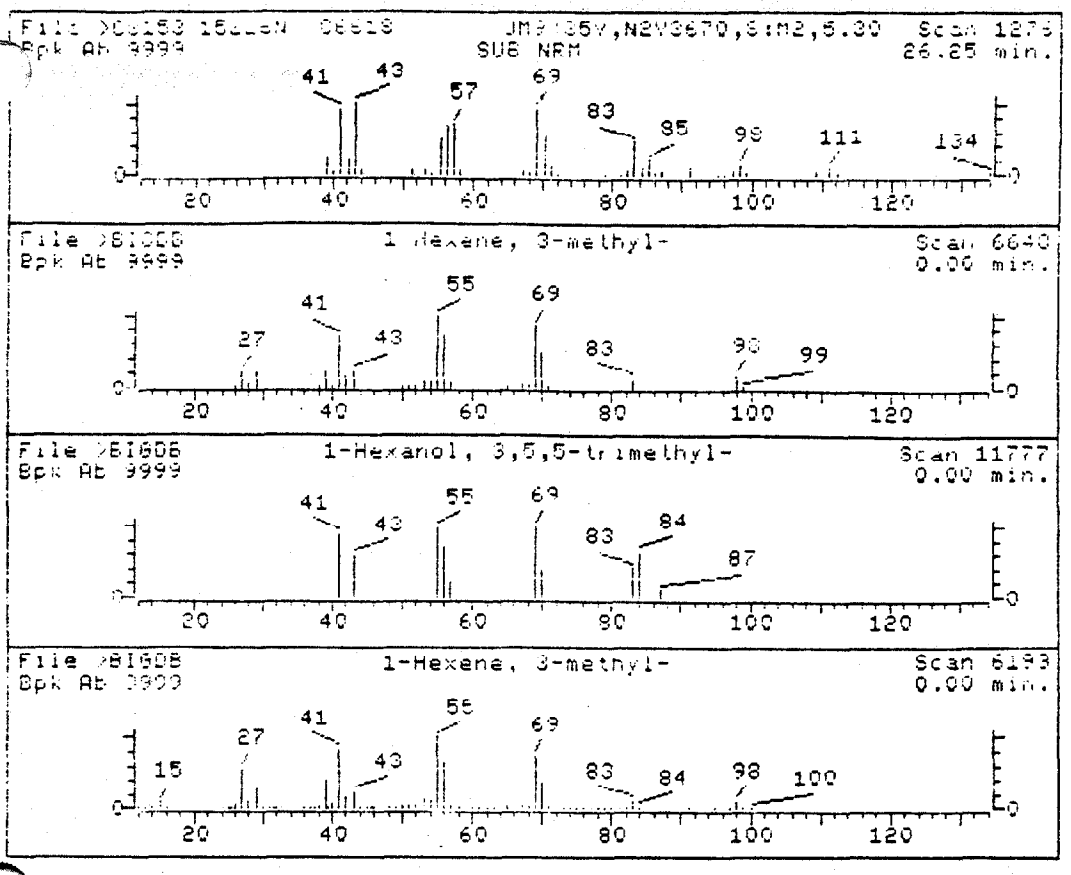
Data File: >C8153::DF
Name: 15226N C6618
Misc Data: JM9435U,N2U3670,S:M2,5.30,5:1,
RT (min): 21.60
Scan: 1038
Area: 51306 Rank: 14
Semi-quantitative Conc (uncorrected): 7.59 ug/l
Semi-quantitative Conc (corrected): 1.43 ug/kg
Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 19.59 minutes

$.005 \times .426 = .003$

1. Pyrimidine, 2,4-dimethyl- 108 C6H8N2
2. 1H-Pyrazole, 3-ethyl-4,5-dihydro- 98 C5H10N2
3. 1H-Imidazole, 4,5-dihydro-2,4-dimethyl- 98 C5H10N2

Sample file: >C8153 Spectrum #: 1038
Search speed: 2 Tilting option: S No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	15*	14331545	21612	"BIGDB	24	115	3	0	53	58	3	12



Data File: >C8153::D5
Name: 15226N C6618
Misc Data: JM9435U,N2U3670,S:M2,5.30,5:1,
RT (min): 26.25
Scan: 1276
Area: 48754 Rank: 15
Semi-quantitative Conc (uncorrected): 7.22 ug/l
Semi-quantitative Conc (corrected): 1.36 ug/kg
Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 19.59 minutes

1. 1-Hexene, 3-methyl- 98 C7H14
2. 1-Hexanol, 3,5,5-trimethyl- 144 C9H20O
3. 1-Hexene, 3-methyl- 98 C7H14

Sample file: >C8153 Spectrum #: 1276
Search speed: 2 Tilting option: S No. of ion ranges searched: 49

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
44*	3404613	6648	"BIGDB	49	52	2	0	92	29	19	22
43	3452979	11777	"BIGDB	41	38	2	0	94	23	17	14

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Clw19

Lab Name: ABC Contract: NPCA

Lab Code: — Case No.: — SAS No.: — SDG No.: Clw07

Matrix: (soil/water) Soil Lab Sample ID: IM9436

Sample wt/vol: 4.07 (g/mL) g Lab File ID: B4165

Level: (low/med) med Date Received: 06/23/94

% Moisture: not dec. NA Date Analyzed: 06/28/94

GC Column: DB624 ID: .53 (mm) Dilution Factor: 125

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3	Chloromethane	12900	
74-83-9	Bromomethane	768	U
75-01-4	Vinyl Chloride	"	"
75-00-3	Chloroethane	"	"
75-09-2	Methylene Chloride	416	J
67-64-1	Acetone	2720	
75-15-0	Carbon Disulfide	768	U
75-35-4	1,1-Dichloroethene	"	"
75-34-3	1,1-Dichloroethane	"	"
540-59-0	1,2-Dichloroethene (total)	"	"
67-66-3	Chloroform	17500	
107-06-2	1,2-Dichloroethane	768	U
78-93-3	2-Butanone	1540	U
71-55-6	1,1,1-Trichloroethane	768	U
56-23-5	Carbon Tetrachloride	6270	
75-27-4	Bromodichloromethane	768	U
78-87-5	1,2-Dichloropropane	"	"
10061-01-5	cis-1,3-Dichloropropene	"	"
79-01-6	Trichloroethene	"	"
124-48-1	Dibromochloromethane	"	"
79-00-5	1,1,2-Trichloroethane	"	"
71-43-2	Benzene	"	"
10061-02-6	trans-1,3-Dichloropropene	"	"
75-25-2	Bromoform	"	"
108-10-1	4-Methyl-2-Pentanone	1540	U
591-78-6	2-Hexanone	768	U
127-18-4	Tetrachloroethene	284	J
79-34-5	1,1,2,2-Tetrachloroethane	768	U
108-88-3	Toluene	206	J
108-90-7	Chlorobenzene	768	U
100-41-4	Ethylbenzene	966	
100-42-5	Styrene	768	U
1330-20-7	Xylene (total)	5520	

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0131
EPA SAMPLE NO.

Lab Name: ASC Contract: NASA CLW19

Lab Code: — Case No.: — SAS No.: — SDG No.: CLW17

Matrix: (soil/water) Soil Lab Sample ID: JM4436

Sample wt/vol: 4.07 (g/mL) g Lab File ID: B4165

Level: (low/med) Low Date Received: 06/23/94

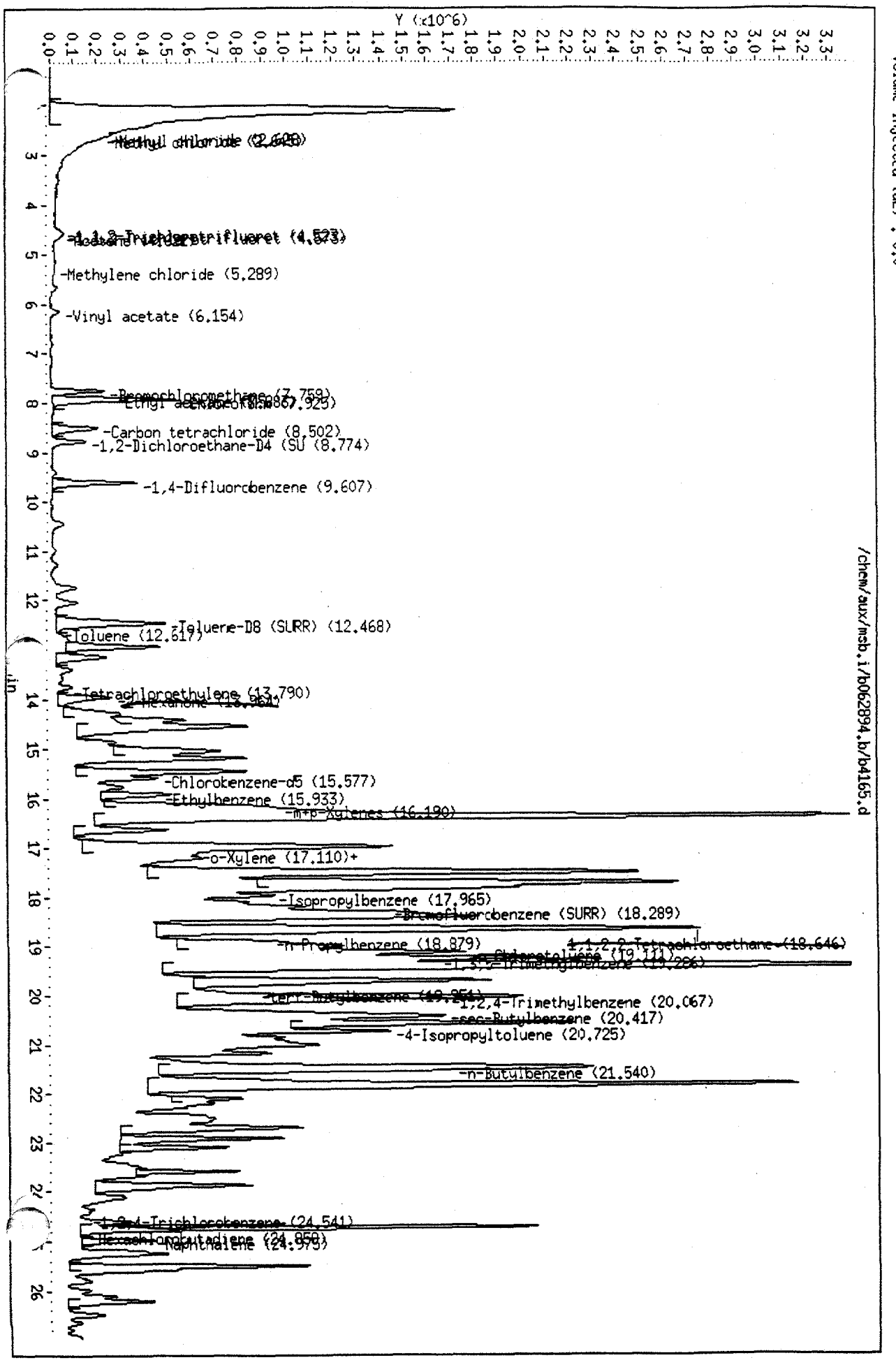
% Moisture: not dec. NA Date Analyzed: 06/28/94

GC Column: DB624 ID: .53 (mm) Dilution Factor: 1.25

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

Number TICs found: 10 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	611-14-3	Benzene, 1-ethyl-2-methyl-	19.023	30900	J
2.	7667-04-5	Benzene, 2-chloro-1,3,5-trimethyl-	24.733	38800	J
3.	124-18-5	Decane	19.394	99400	J
4.	493-62-7	Naphthalene, decahydro-, trans-	21.482	57300	J
5.	111-84-2	Nonane	16.345	83300	J
6.	1120-21-4	Undecane	21.823	82000	J
7.	19489-10-2	cis-1-Ethyl-3-methyl-cyclohexane	16.969	42880	J
8.	—	Unknown	2.101	57800	J
9.	—	"	—	43100	J
10.	—	"	—	45900	J
11.					
12.		1,1,2-Trichlorotrifluoroethane	4.573	1290	X
13.		Isopropylbenzene	17.965	3480	X
14.		n-Propylbenzene	18.879	4130	X
15.		1,3,5-Trimethylbenzene	19.286	1750	X
16.		1,2,4-Trimethylbenzene	20.067	5390	X
17.		Sec-Butylbenzene	20.417	8350	X
18.		4-Isopropyltoluene	20.725	12500	X
19.		n-Butylbenzene	21.540	10500	X
20.		Naphthalene	24.975	1030	X
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					



Data File: /chem/aux/msb.i/b062894.b/b4165.d
Date : 28-JUN-94 15:37
Instrument : msb.i
Sample ID :
Column phase : J&W DB_624
Volume Injected (uL) : 0.0

C6619

Column diameter : 0.53

Data File: /chem/aux/msb.i/b062894.b/b4165.d
Report Date: 30-Jun-1994 14:00

Analytical Services Corp.

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/aux/msb.i/b062894.b/b4165.d
Lab. Id. :
Quant Type: ISTD
Inj Date : 28-JUN-94 15:37
Autotune Date: {
Operator : steve
Inst ID: msb.i
Smp Info : 15226n c6619
Misc Info : jm9436v,n2v3677,s:m2,4.07,5:125,
Comment :
Method : /chem/aux/msb.i/b062894.b/8240b.m
Meth Date : 30-Jun-1994 11:57 tom
Cal Date : 28-JUN-94 10:30
Cal File: b4157.d
Als bottle: 11
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/l)	FINAL (ug/l)
	Methyl chloride	50.00	2.645	(0.339)	141273	84.2	84.2(QM)
	10 1,1,2-Trichlorotrifluorethane	101.00	4.573	(0.583)	86164	8.43	8.43(QM)
	11 Acetone	43.00	4.622	(0.596)	20333	17.7	17.7(aM)
	15 Methylene chloride	84.00	5.289	(0.682)	13048	2.71	2.71(aQM)
	20 Vinyl acetate	43.00	6.154	(0.641)	32051	19.1	~~19.1(a)~~
	24 Ethyl acetate	88.00	7.883	(1.016)	223	0.534	0.534(aQ)
*	25 Bromochloromethane	128.00	7.759	(1.000)	174411	50.0	
	27 Chloroform	83.00	7.933	(1.022)	1154708	114	114
	29 Carbon tetrachloride	117.00	8.502	(0.885)	398514	40.8	40.8
$	31 1,2-Dichloroethane-D4 (SURR)	65.00	8.774	(1.131)	296658	56.2	56.2
*	34 1,4-Difluorobenzene	114.00	9.607	(1.000)	797553	50.0	
$	43 Toluene-D8 (SURR)	98.00	12.476	(0.801)	809796	55.5	55.5(R)
	44 Toluene	92.00	12.617	(0.810)	12828	1.34	1.34(aQM)
	47 Tetrachloroethylene	164.00	13.790	(0.885)	12531	1.86	1.86(aQM)
	49 2-Hexanone	43.00	13.964	(0.896)	324192	94.4	~~94.4(Q)~~
*	52 Chlorobenzene-d5	117.00	15.577	(1.000)	622959	50.0	
	55 Ethylbenzene	106.00	15.933	(1.023)	36197	6.29	6.29
	56 m+p-Xylenes	106.00	16.190	(1.039)	47560	6.83	6.83(Q)
	57 o-Xylene	106.00	17.110	(1.098)	202997	29.1	29.1
	58 Styrene	104.00	17.102	(1.098)	10012	0.910	~~0.910(aQ)~~
	60 Isopropylbenzene	105.00	17.965	(1.153)	460998	22.7	22.7
$	61 Bromofluorobenzene (SURR)	95.00	18.289	(1.174)	529057	54.0	54.0(M)
	63 1,1,2,2-Tetrachloroethane	83.00	18.646	(1.197)	615933	74.4	~~74.4(Q)~~
	65 n-Propylbenzene	120.00	18.879	(1.212)	146563	26.9	26.9(Q)
	66 o-Chlorotoluene	126.00	19.111	(1.227)	6041	1.15	~~1.15(aQ)~~
	67 1,3,5-Trimethylbenzene	105.00	19.286	(1.238)	188747	11.4	11.4
	68 p-Chlorotoluene	126.00	19.111	(1.227)	6687	1.25	1.25(aQ)
	69 tert-Butylbenzene	119.00	19.951	(1.281)	88145	4.82	~~4.82(aQ)~~
	70 1,2,4-Trimethylbenzene	105.00	20.067	(1.288)	555362	35.1	35.1

Data File: /chem/aux/msb.i/b062894.b/b4165.d
Report Date: 30-Jun-1994 14:00

Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
71 sec-Butylbenzene	105.00	20.417	(1.311)	1280630	54.4	54.4
73 4-Isopropyltoluene	119.00	20.725	(1.330)	1661448	81.5	81.5
76 n-Butylbenzene	91.00	21.540	(1.383)	1310203	68.7	68.7
78 1,2,4-Trichlorobenzene	180.00	24.541	(1.575)	13970	1.97	~~1.97(aQ)~~
79 Hexachlorobutadiene	225.00	24.858	(1.596)	5911	1.61	~~1.61(aQ)~~
80 Naphthalene	128.00	24.975	(1.603)	80866	6.70	6.70

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: /chem/aux/msb.i/b062894.b/b4165.d

Date : 28-JUN-94 15:37

Instrument : msb.i

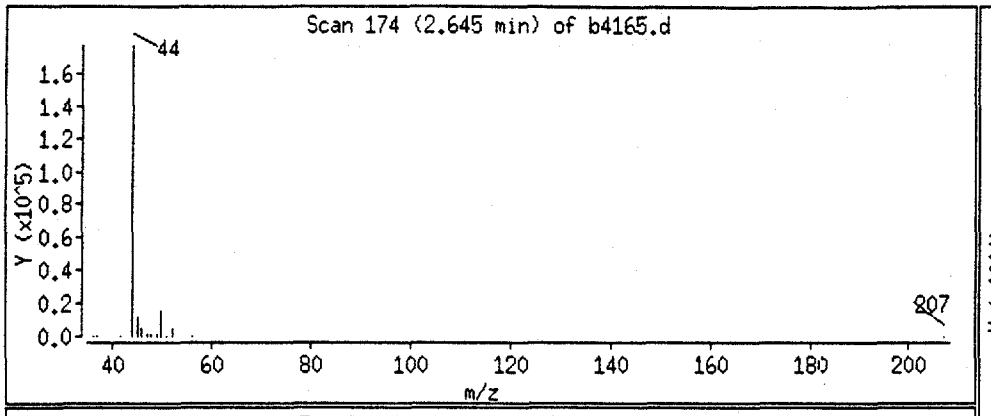
Sample ID :

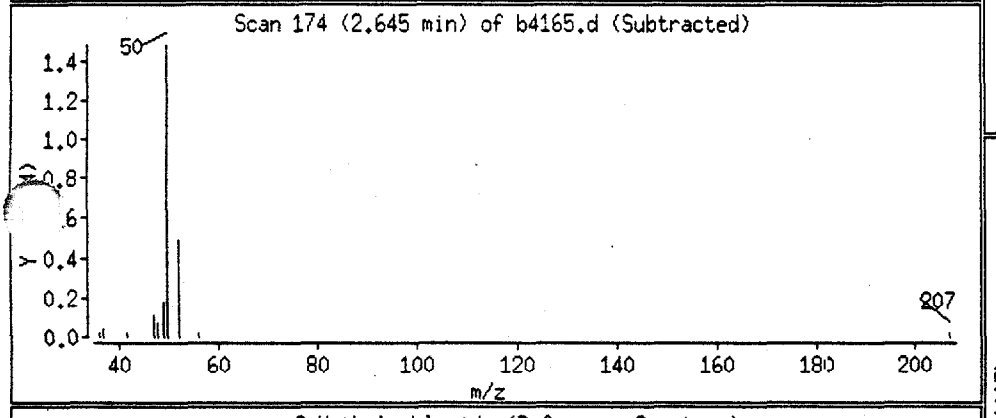
Column phase : J&W DB_624

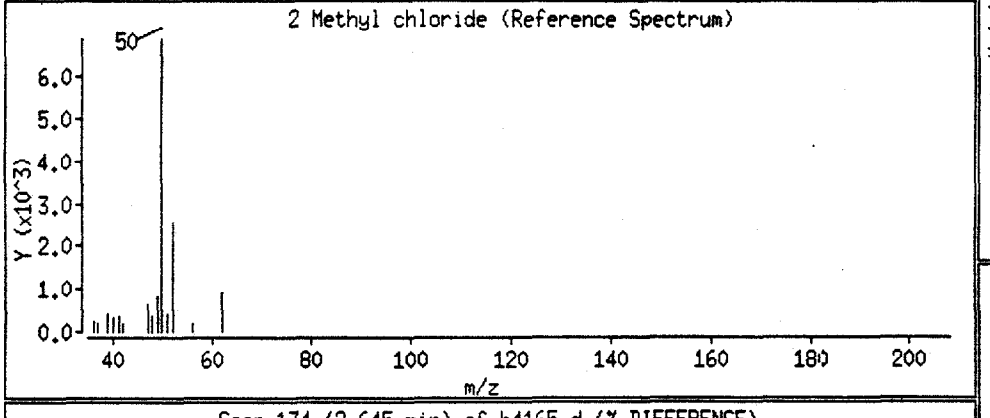
Column diameter : 0.53

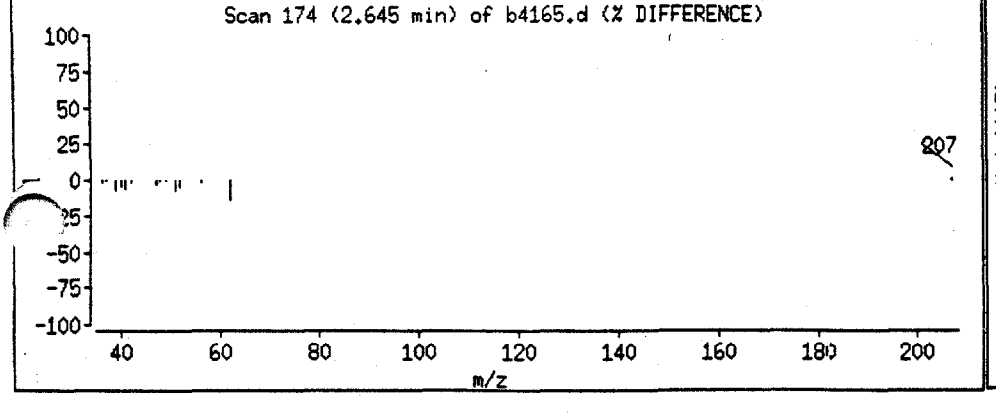
Volume Injected (uL) : 0.0

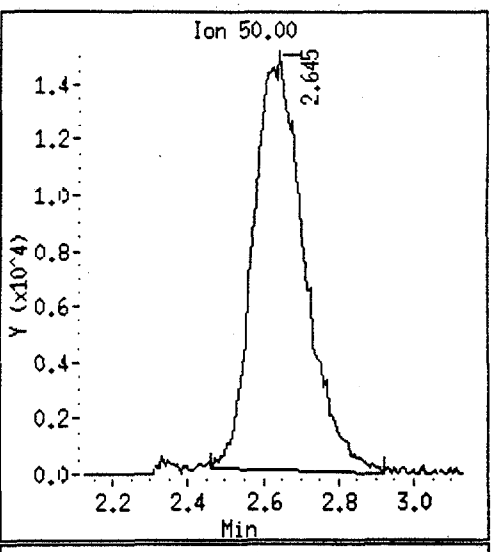
2 Methyl chloride

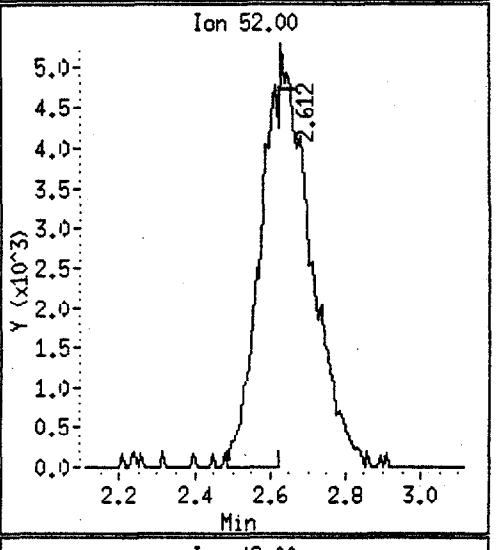


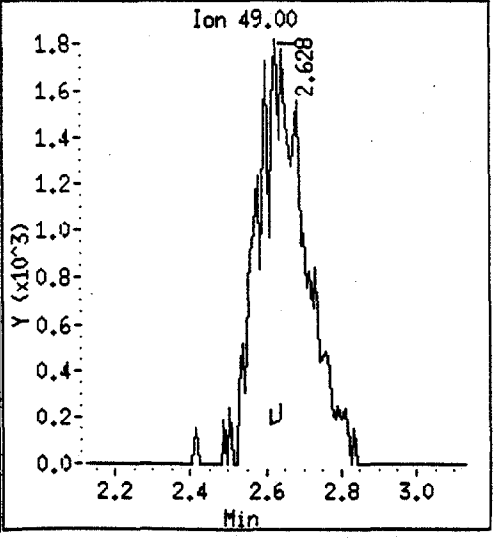












Data File: /chem/aux/msb.i/b062894.b/b4165.d

Date : 28-JUN-94 15:37

Instrument : msb.i

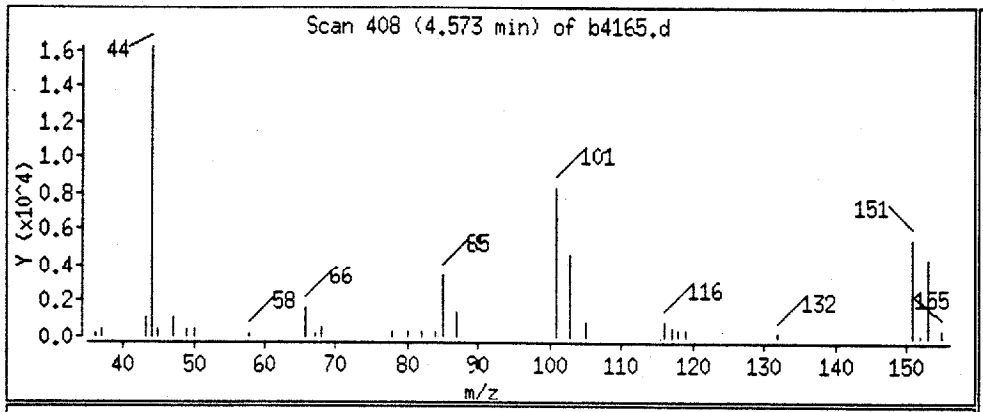
Sample ID :

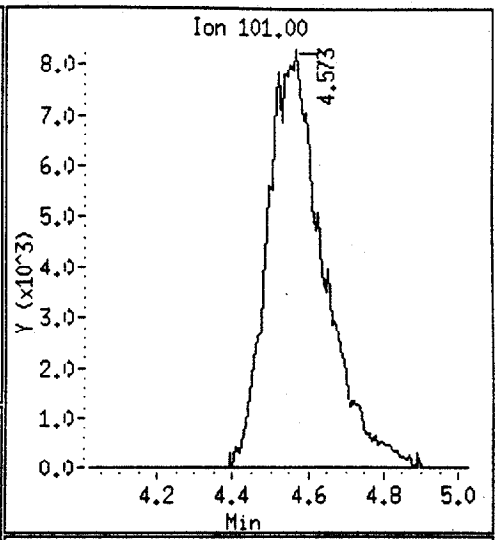
Column phase : J&W DB_624

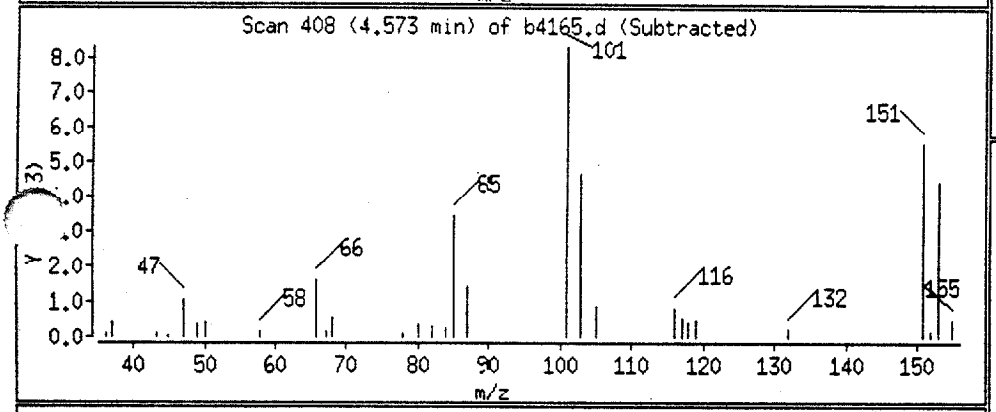
Column diameter : 0.53

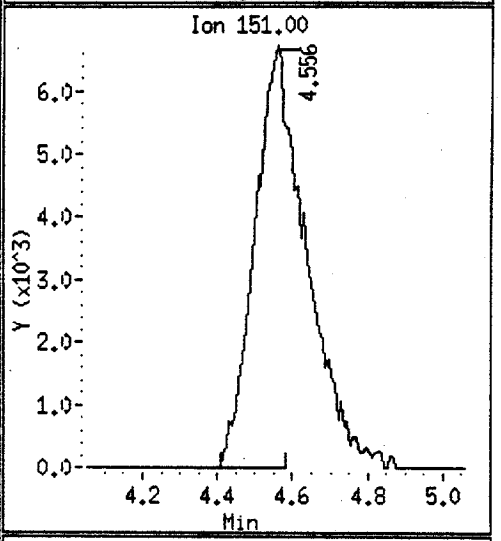
Volume Injected (uL) : 0.0

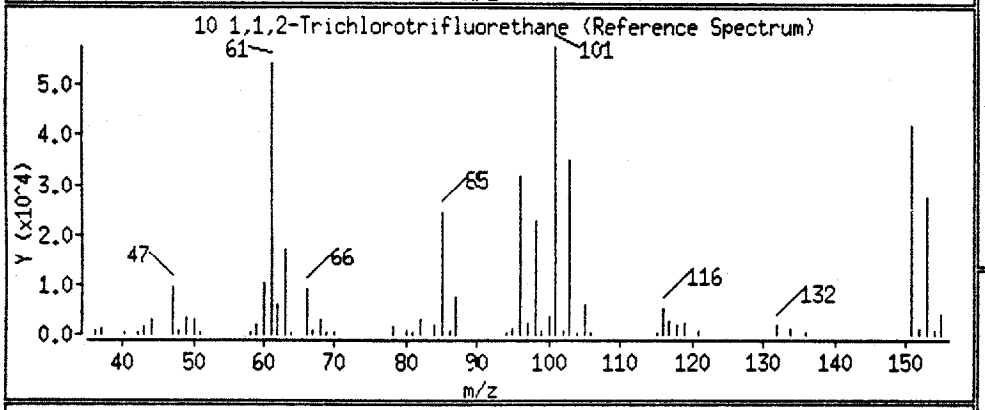
10 1,1,2-Trichlorotrifluorethane

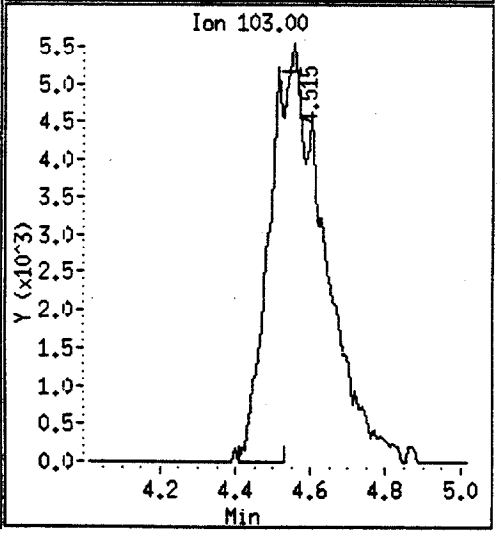


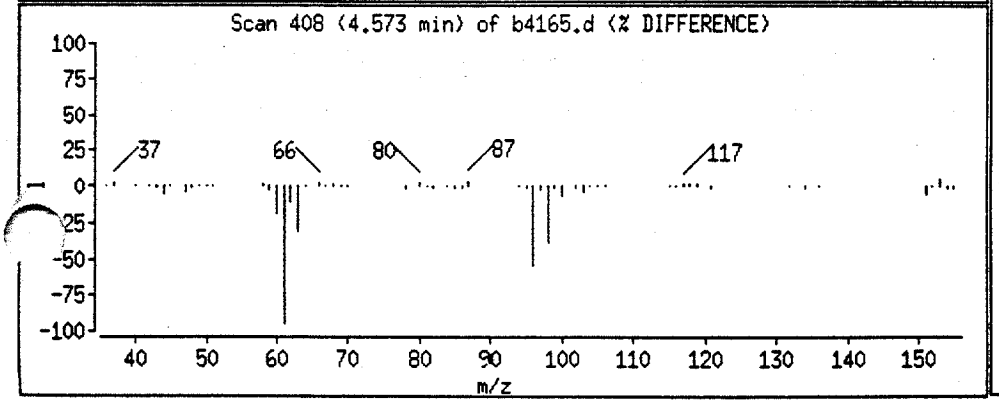












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Date : 28-JUN-94 15:37

Instrument : msb.i

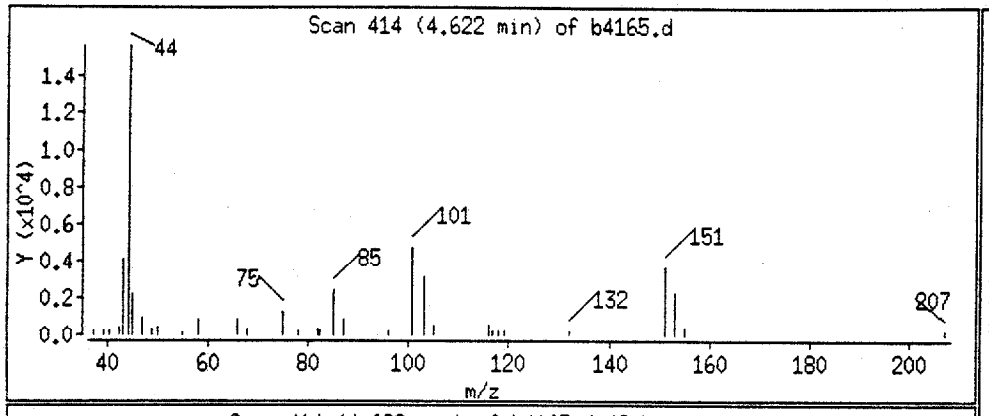
Sample ID :

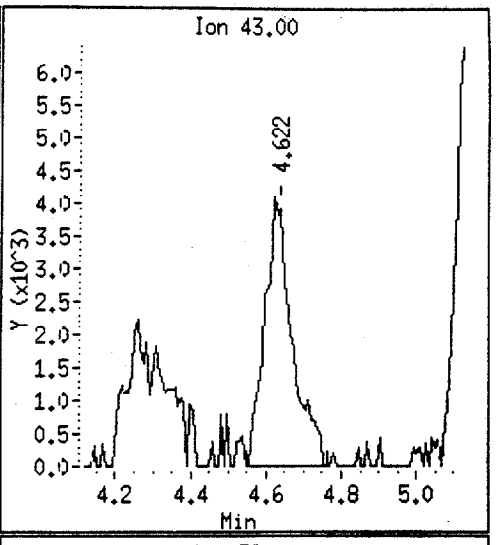
Column phase : J&W DB_624

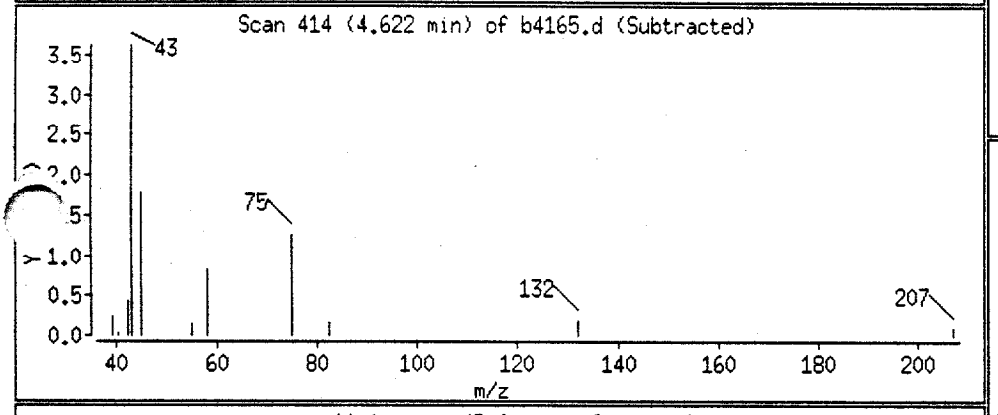
Column diameter : 0.53

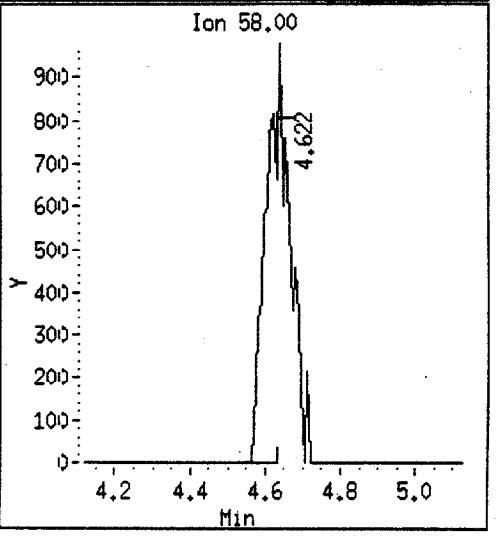
Volume Injected (uL) : 0.0

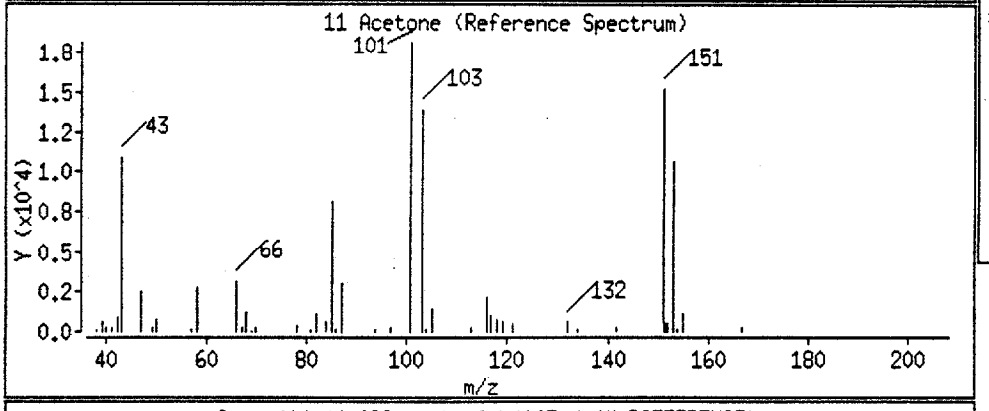
11 Acetone

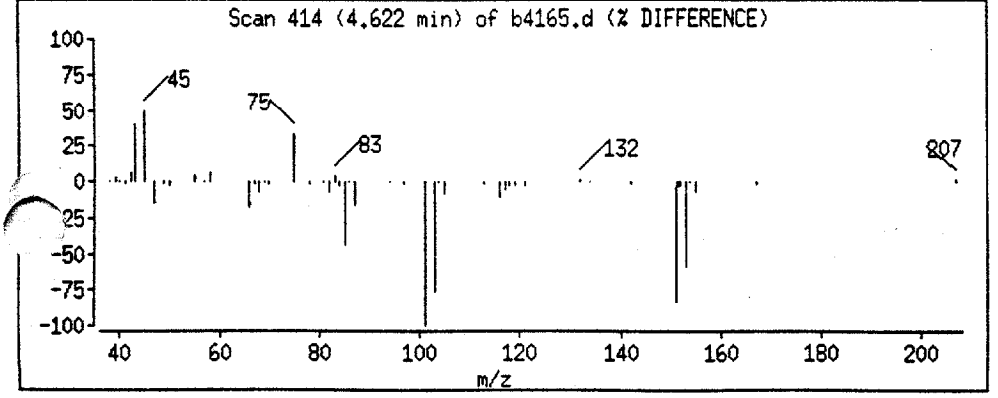












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Date : 28-JUN-94 15:37

Instrument : msb.i

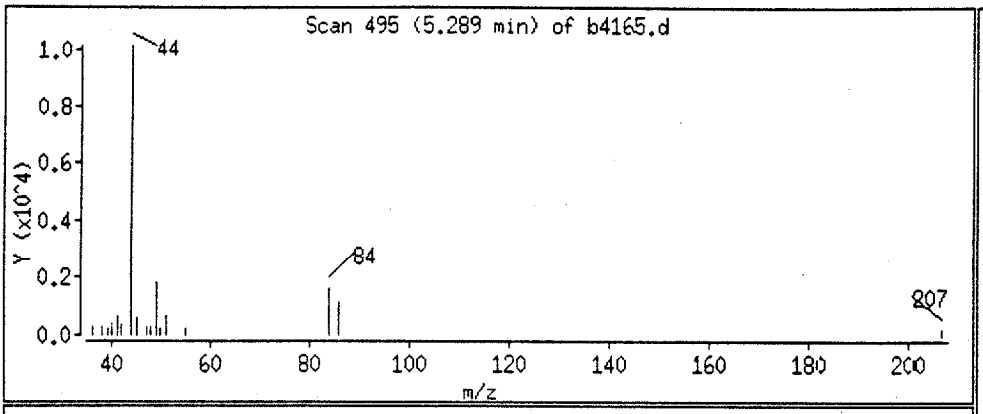
Sample ID :

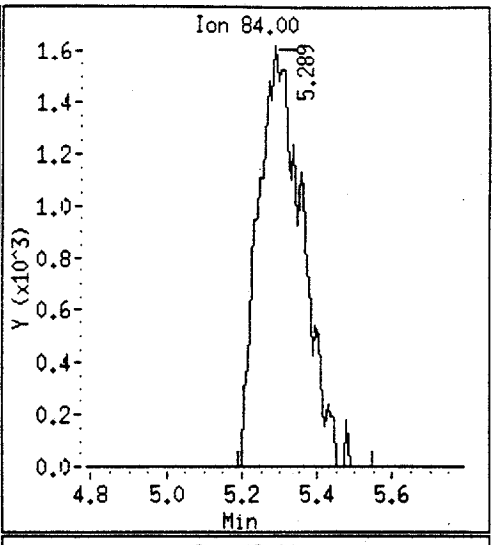
Column phase : J&W DB_624

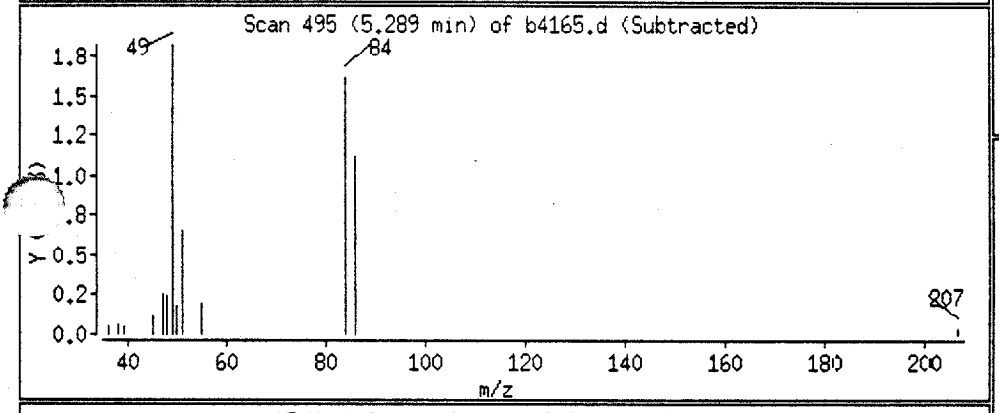
Column diameter : 0.53

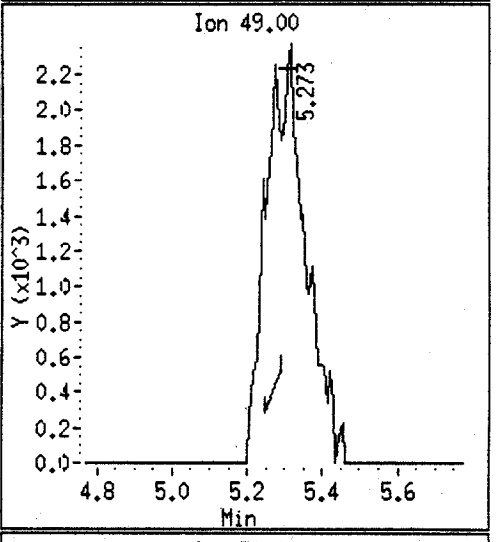
Volume Injected (uL) : 0.0

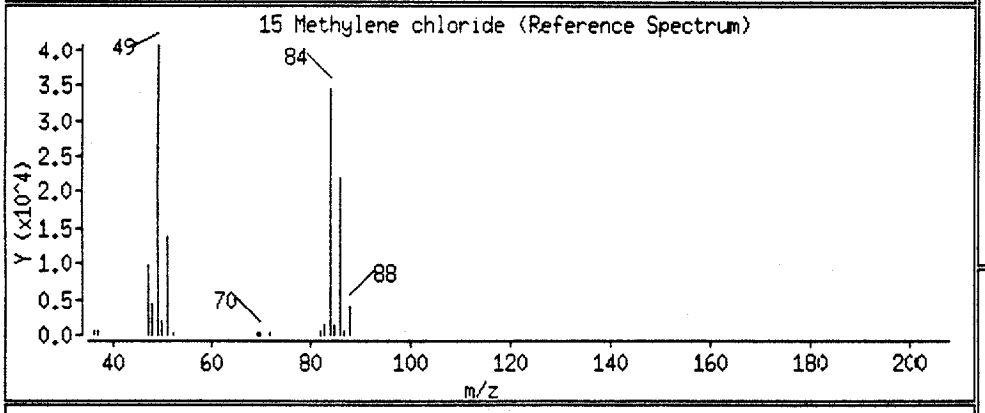
15 Methylene chloride

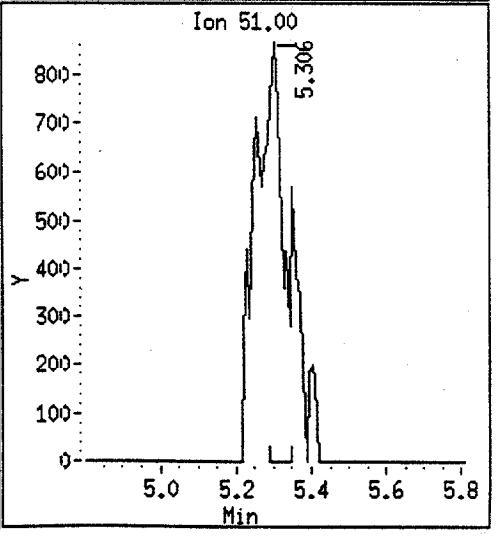


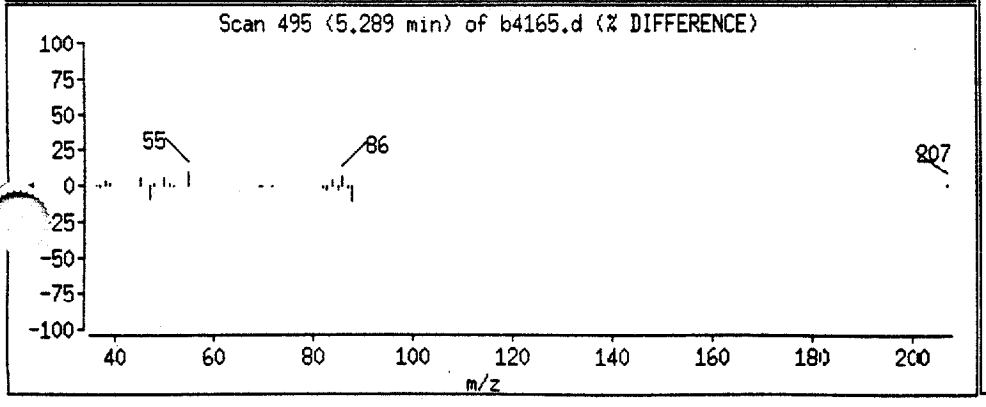












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Date : 28-JUN-94 15:37

Instrument : msb.i

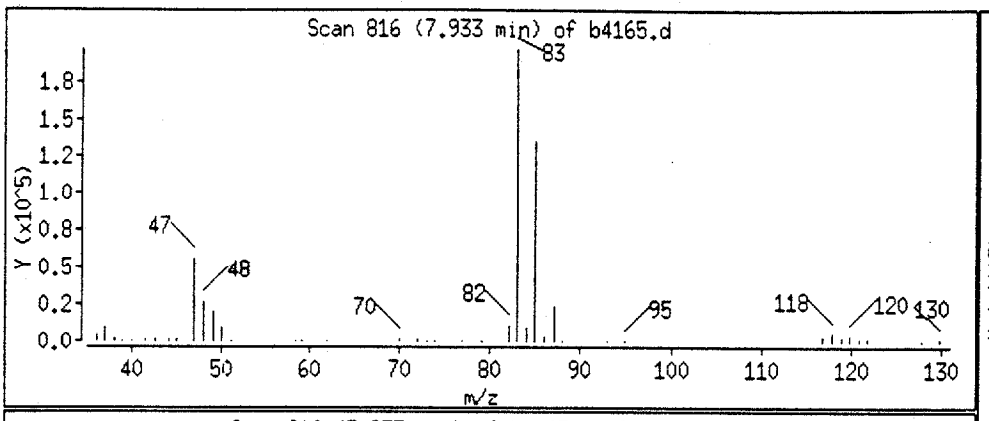
Sample ID :

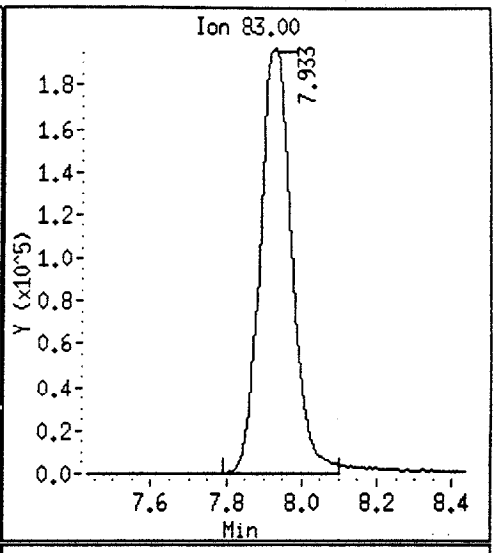
Column phase : J&W DB_624

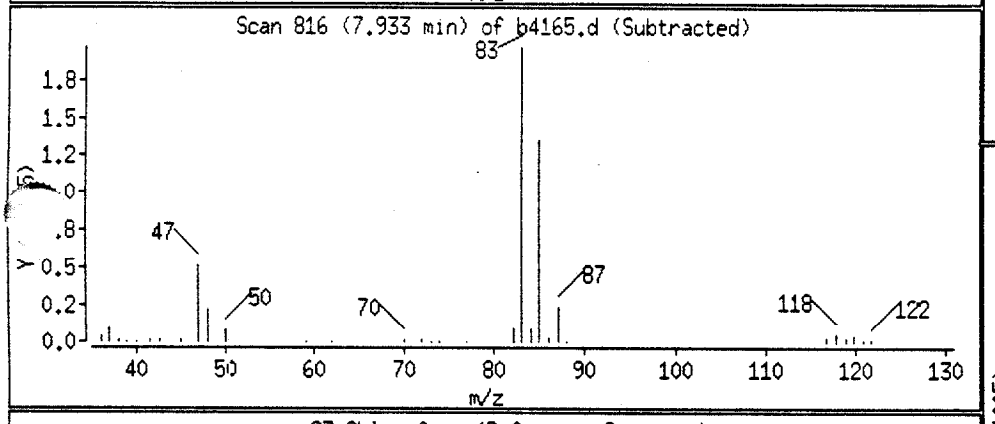
Column diameter : 0.53

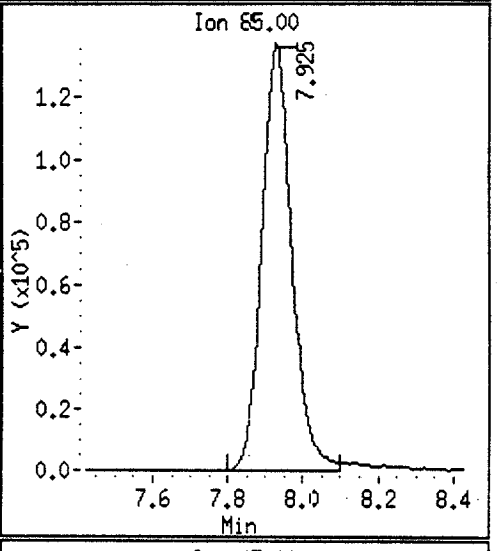
Volume Injected (uL) : 0.0

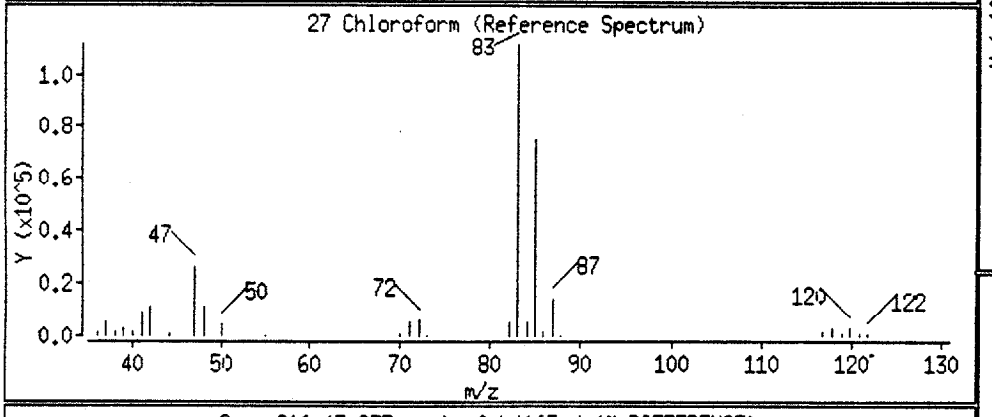
27 Chloroform

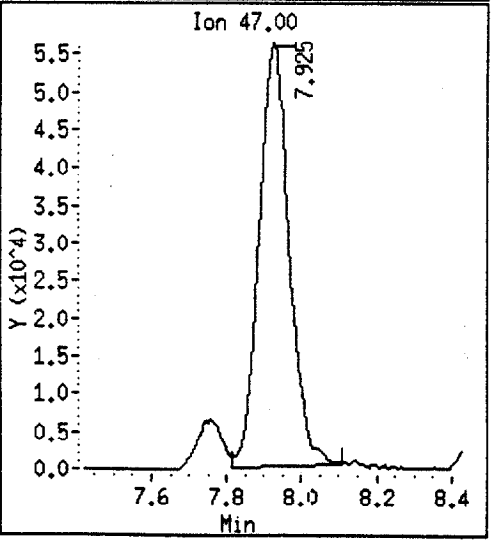


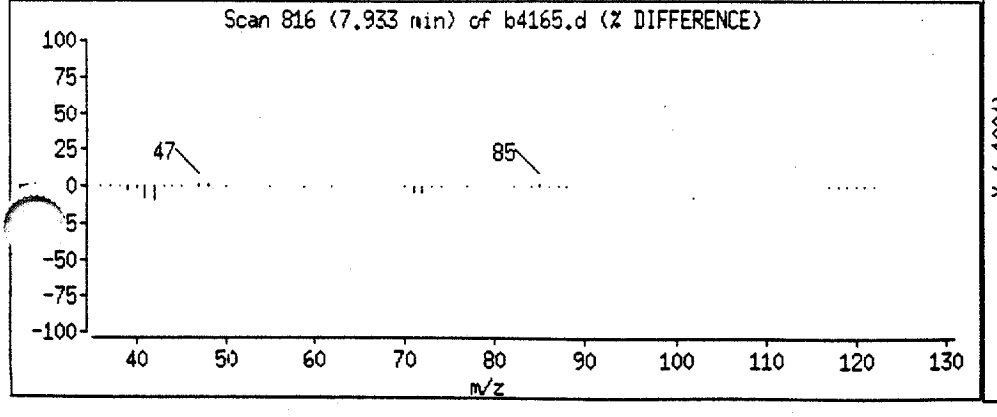












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Date : 28-JUN-94 15:37

Instrument : msb.i

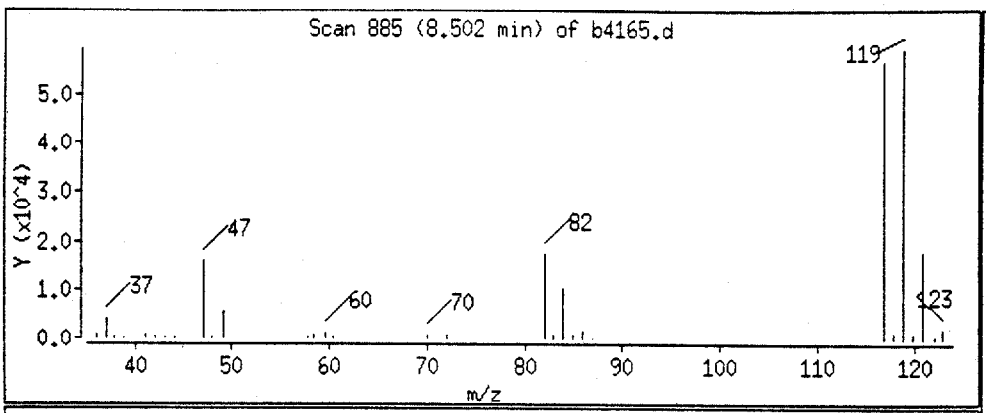
Sample ID :

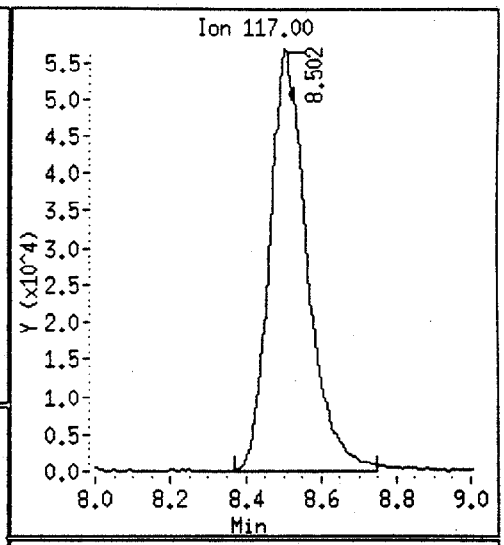
Column phase : J&W DB_624

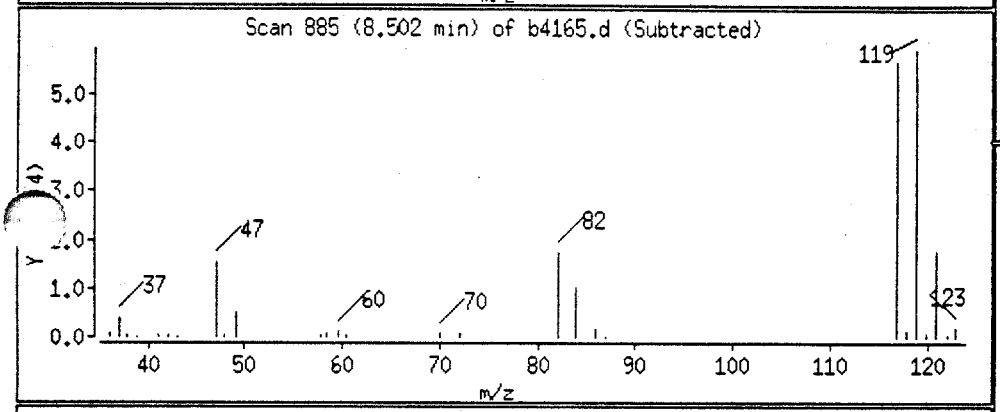
Column diameter : 0.53

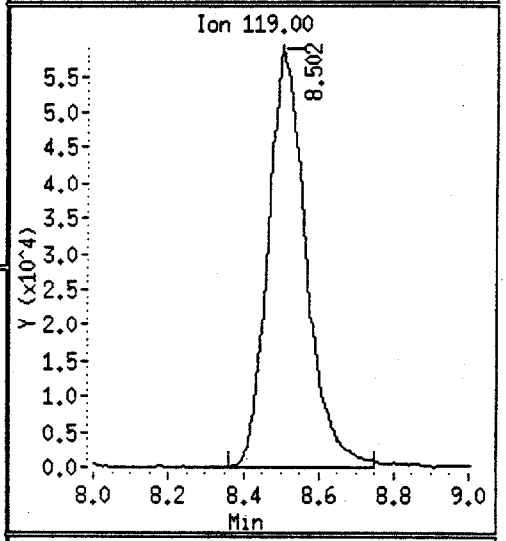
Volume Injected (uL) : 0.0

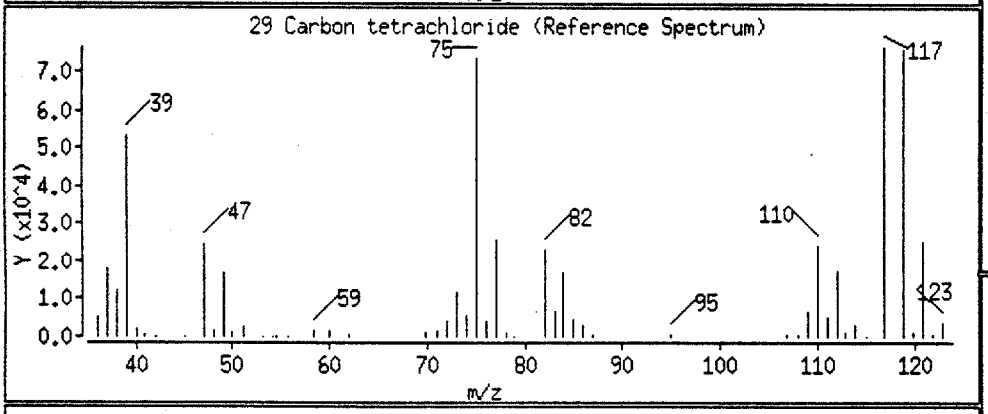
29 Carbon tetrachloride

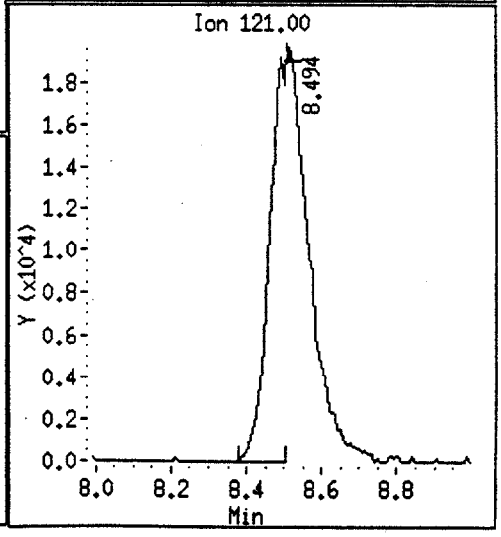


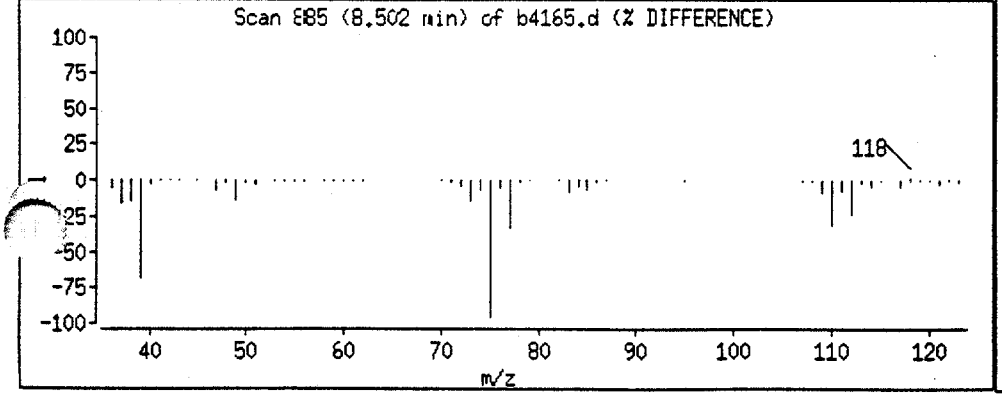












Data File: /chem/aux/msb.i/b062894.b/b4165.d

Date : 28-JUN-94 15:37

Instrument : msb.i

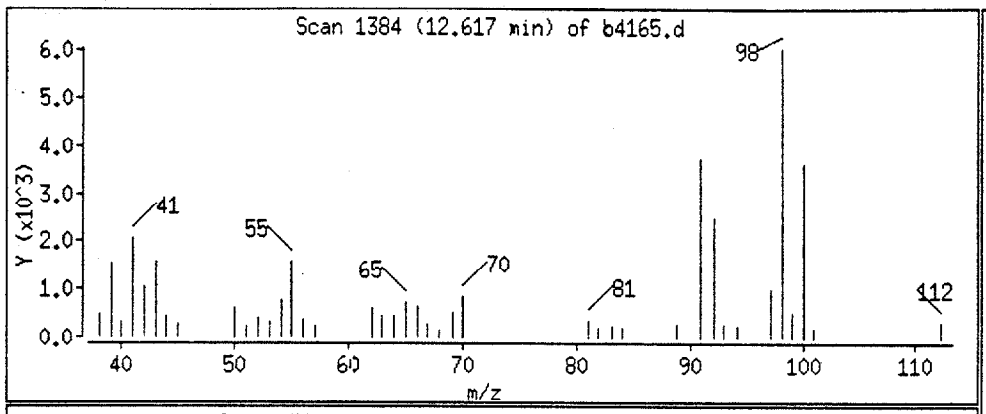
Sample ID :

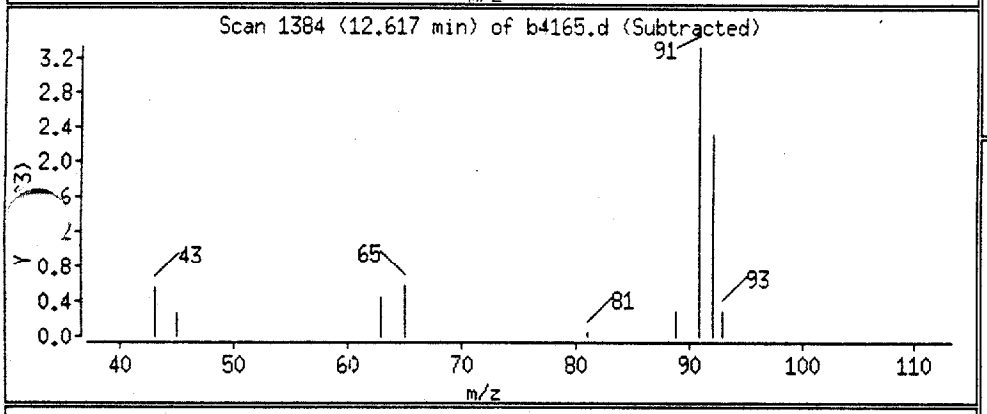
Column phase : J&W DB_624

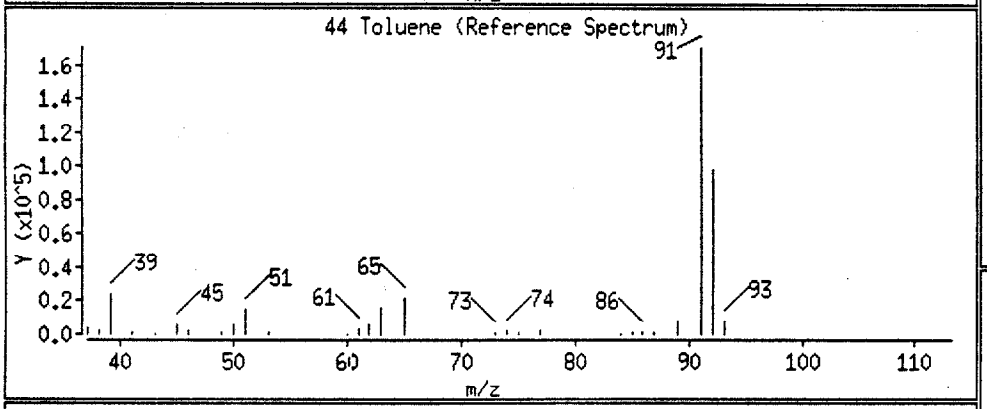
Column diameter : 0.53

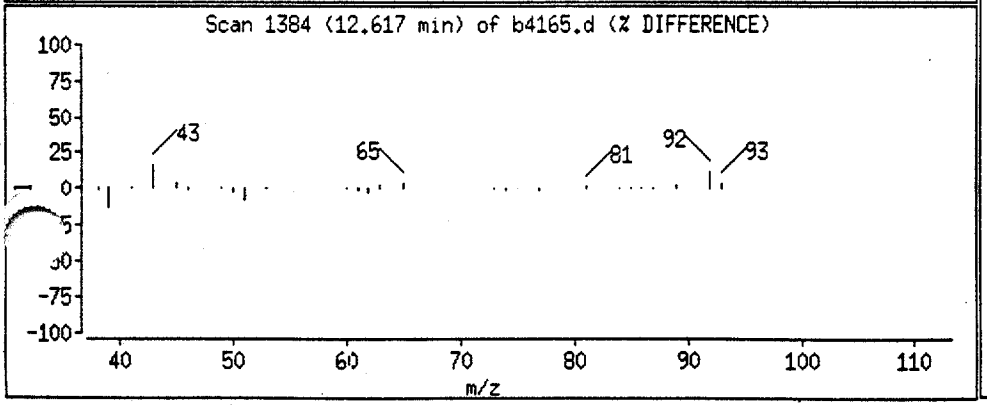
Volume Injected (uL) : 0.0

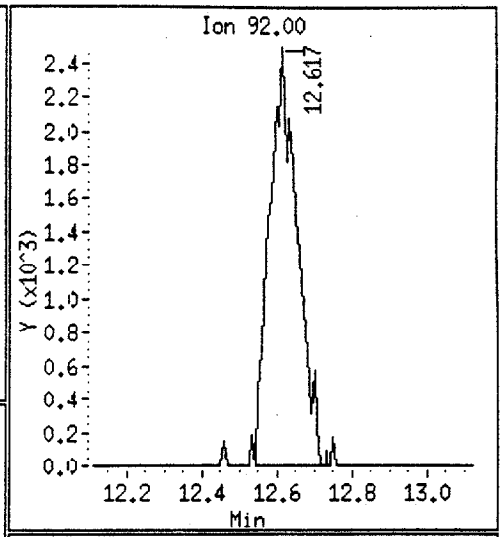
44 Toluene

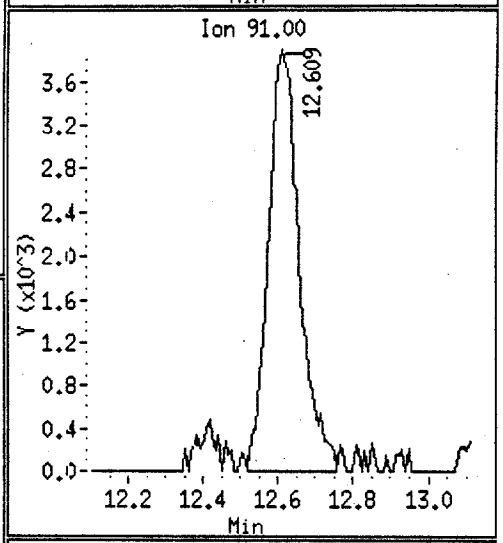


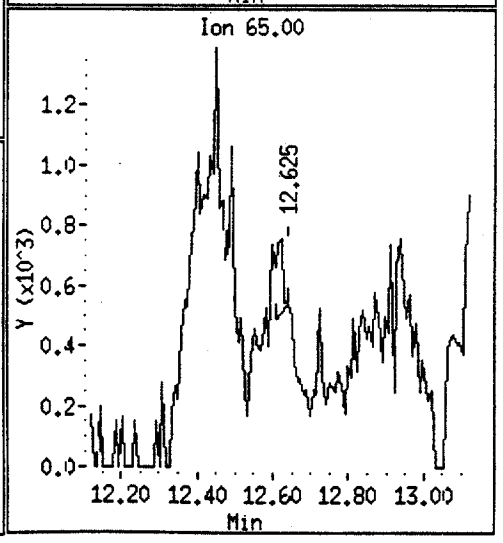












Data File: /chem/aux/msb.i/b062894.b/b4165.d

Date : 28-JUN-94 15:37

Instrument : msb.i

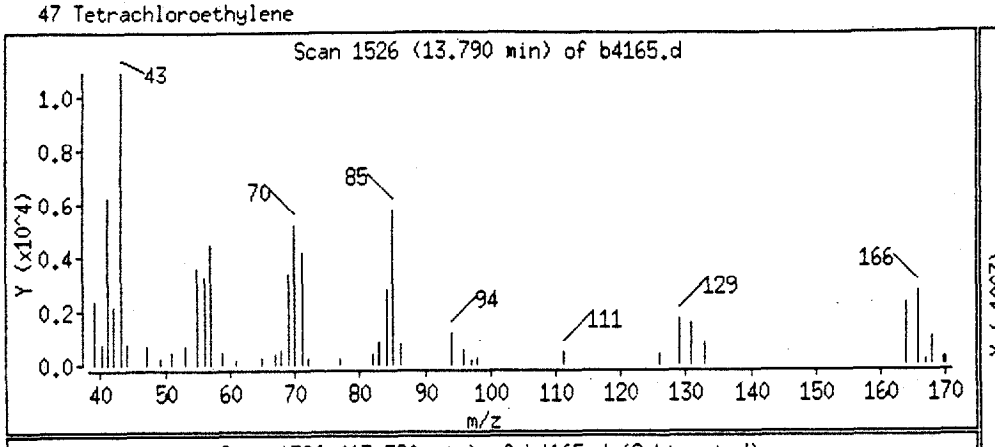
Sample ID :

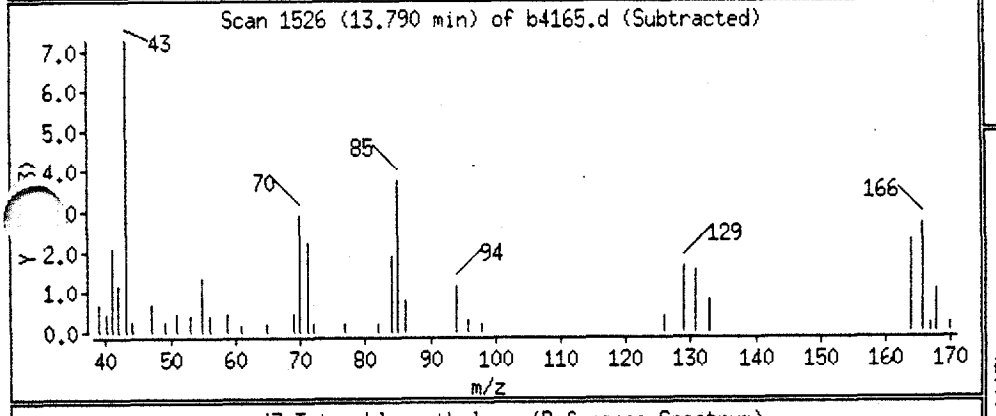
Column phase : J&W DB_624

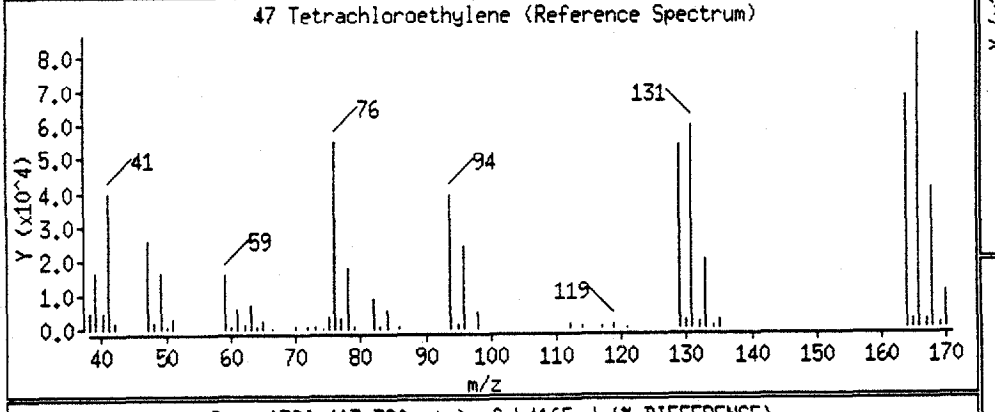
Column diameter : 0.53

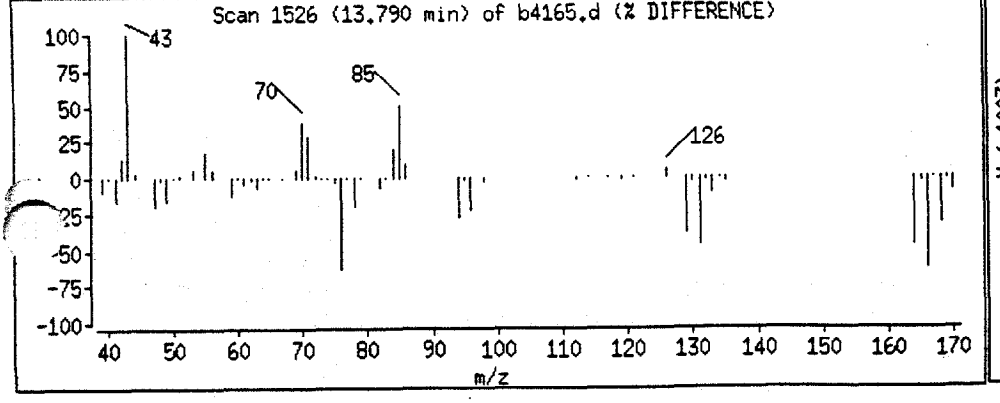
Volume Injected (uL) : 0.0

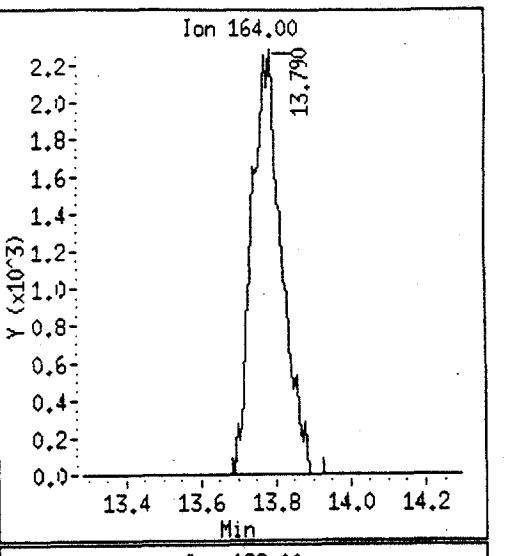
47 Tetrachloroethylene

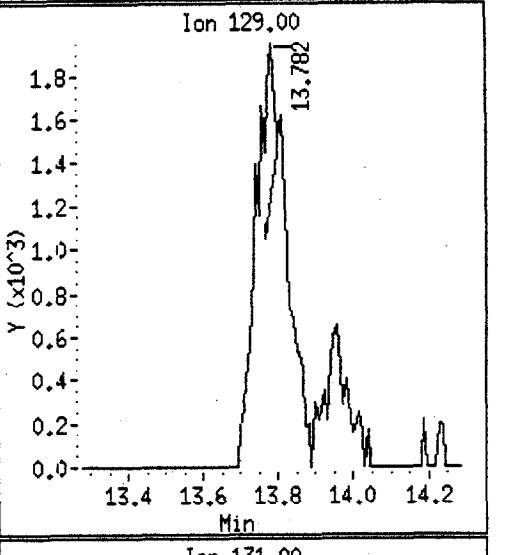


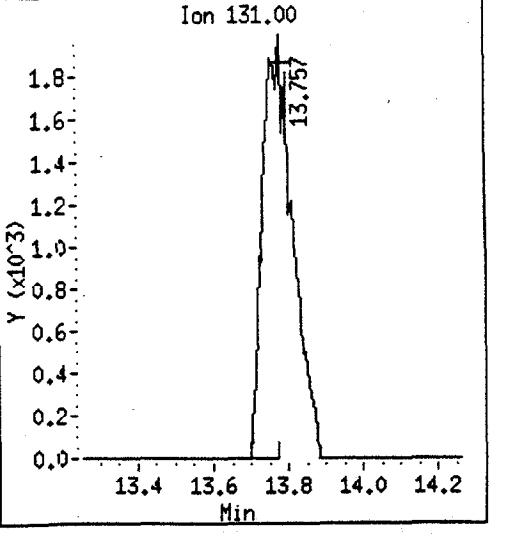












Data File: /chem/aux/msb.i/b062894.b/b4165.d

Date : 28-JUN-94 15:37

Instrument : msb.i

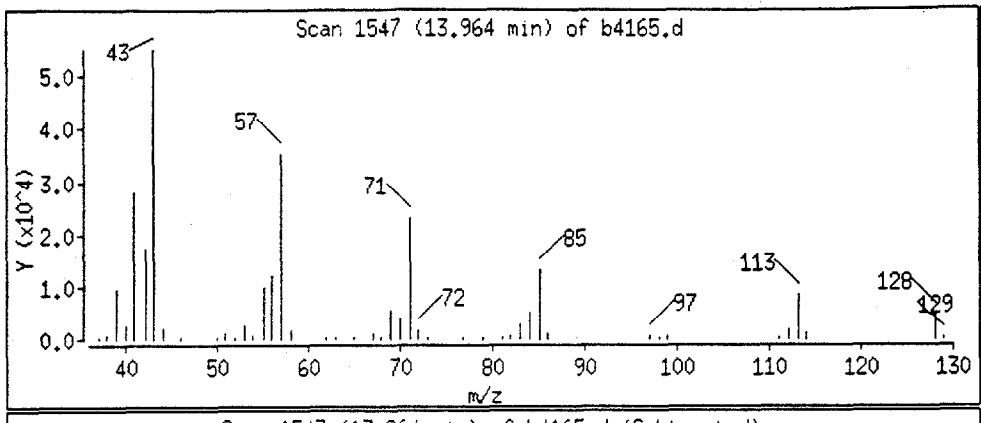
Sample ID :

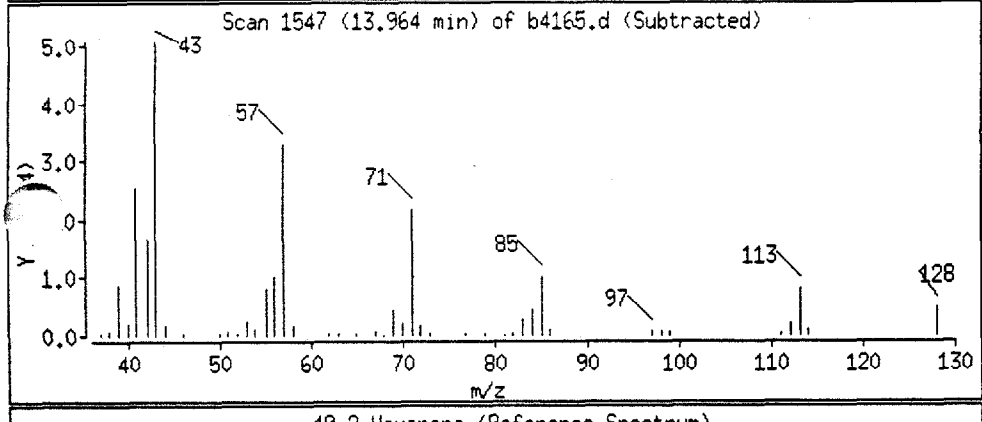
Column phase : J&W DB_624

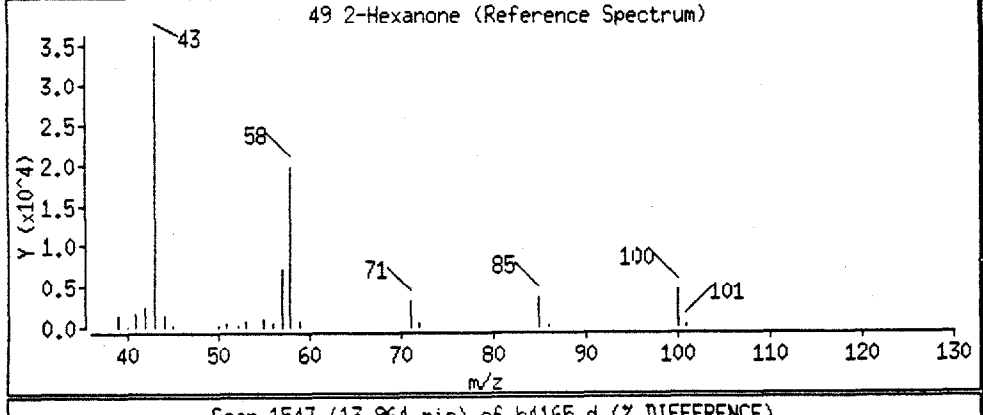
Column diameter : 0.53

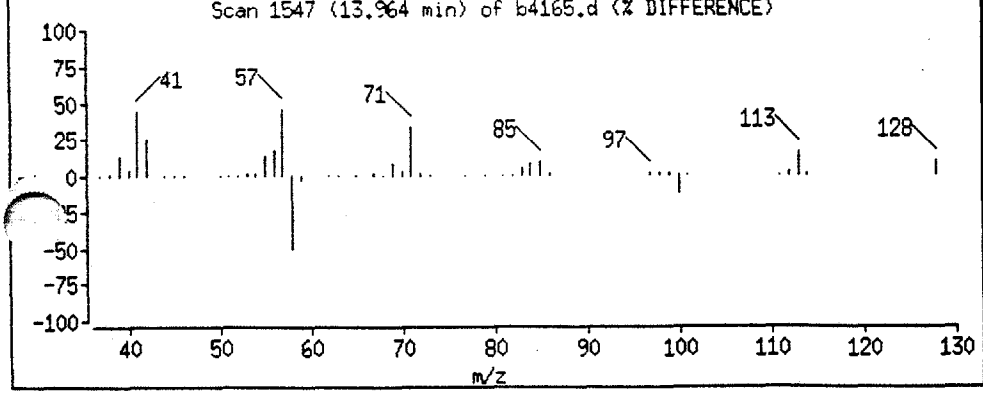
Volume Injected (uL) : 0.0

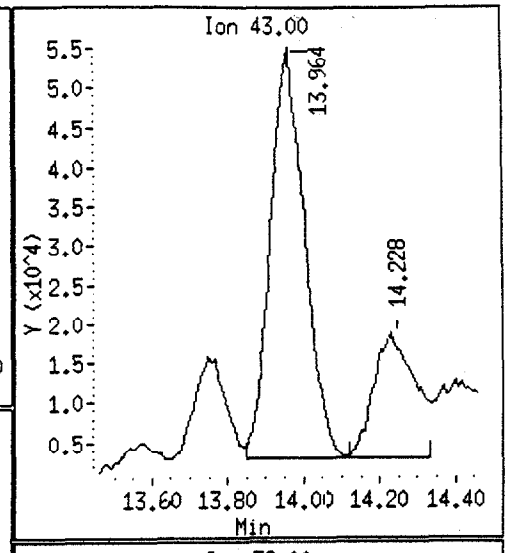
49 2-Hexanone

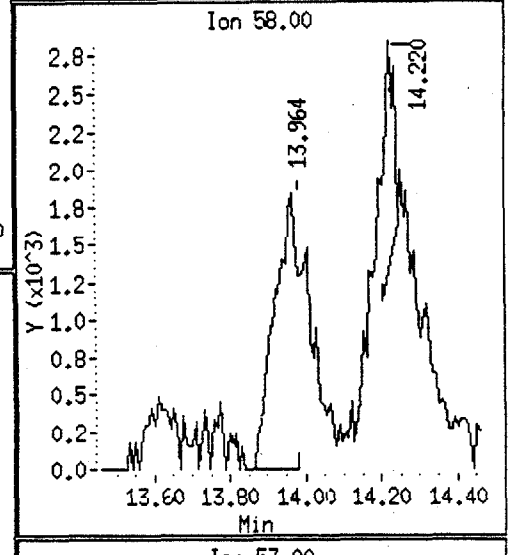


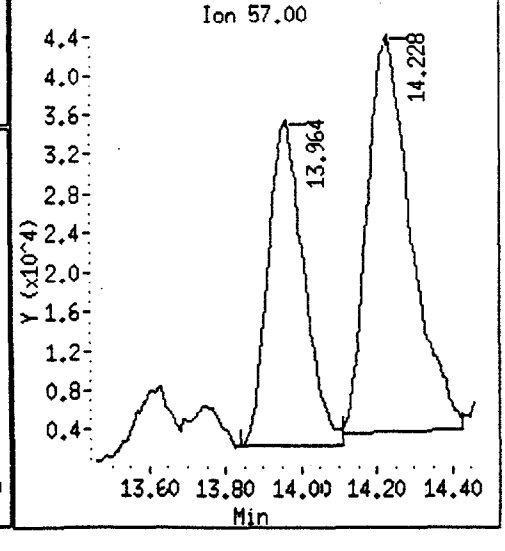












Data File: /chem/aux/msb.i/b062894.b/b4165.d

Date : 28-JUN-94 15:37

Instrument : msb.i

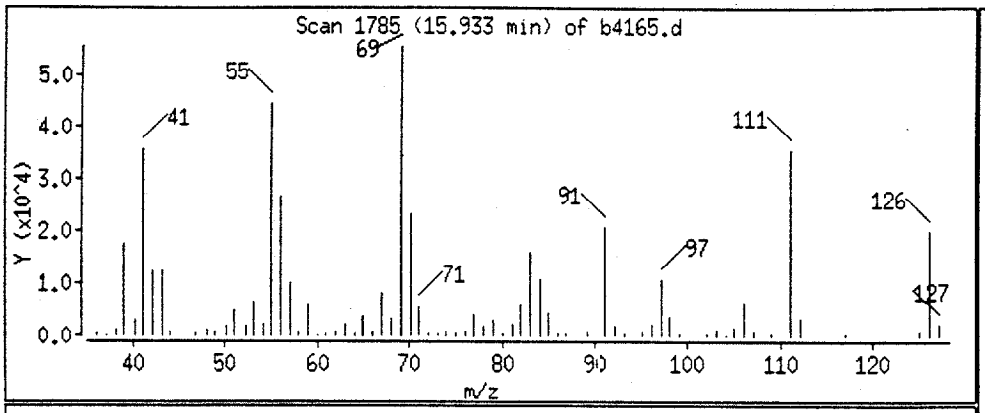
Sample ID :

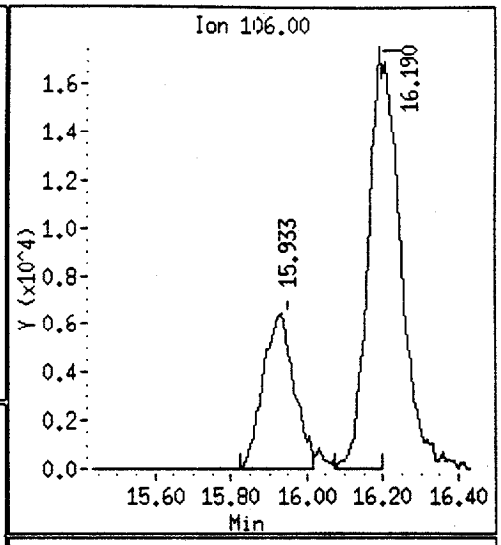
Column phase : J&W DB_624

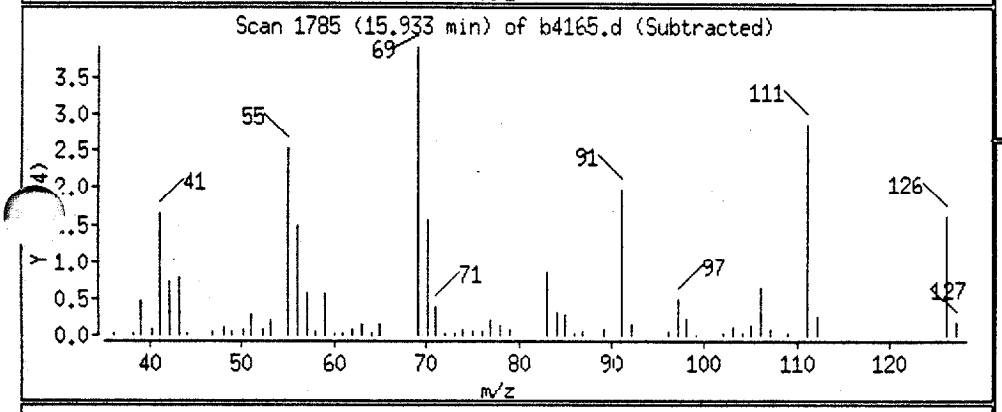
Column diameter : 0.53

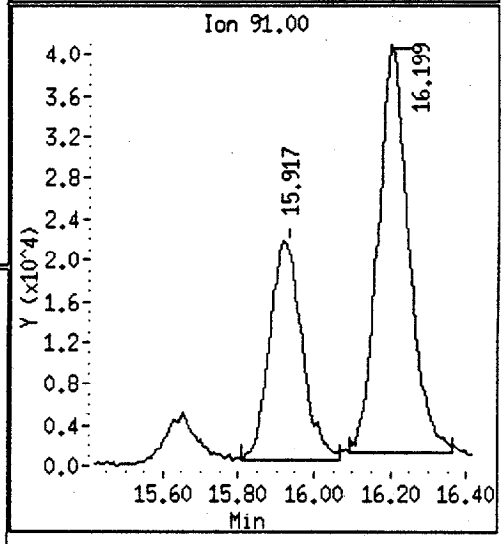
Volume Injected (uL) : 0.0

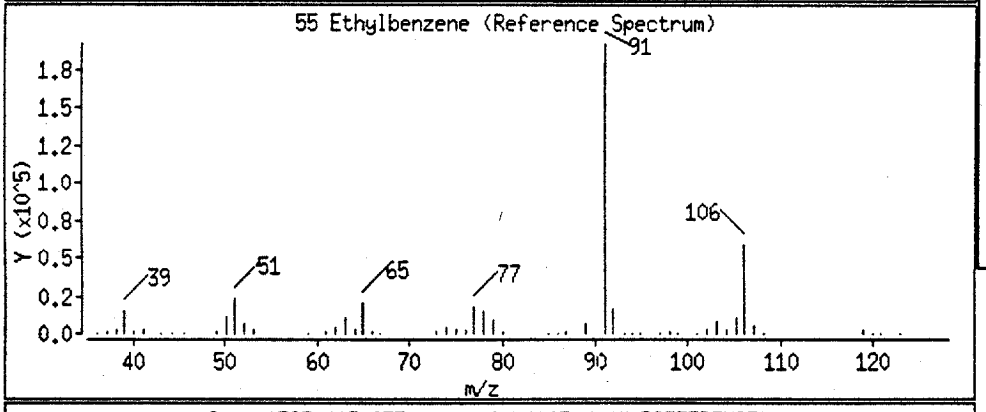
55 Ethylbenzene

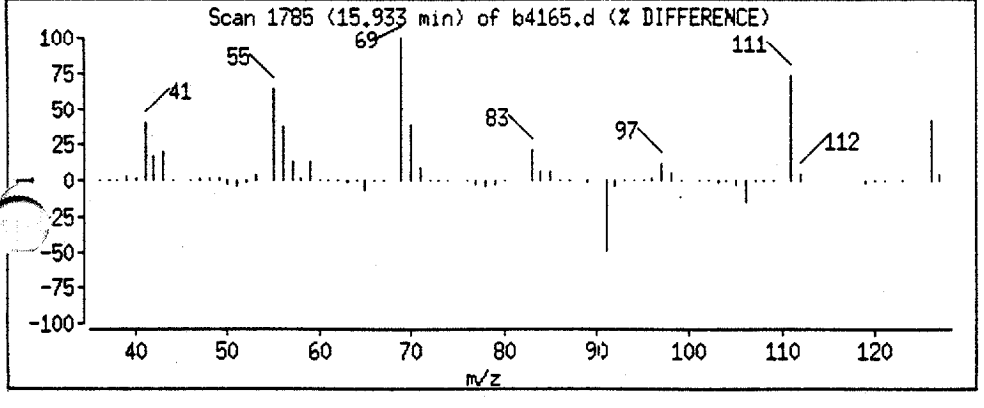












Data File: /chem/aux/msb.i/b062894.b/b4165.d

Date : 28-JUN-94 15:37

Instrument : msb.i

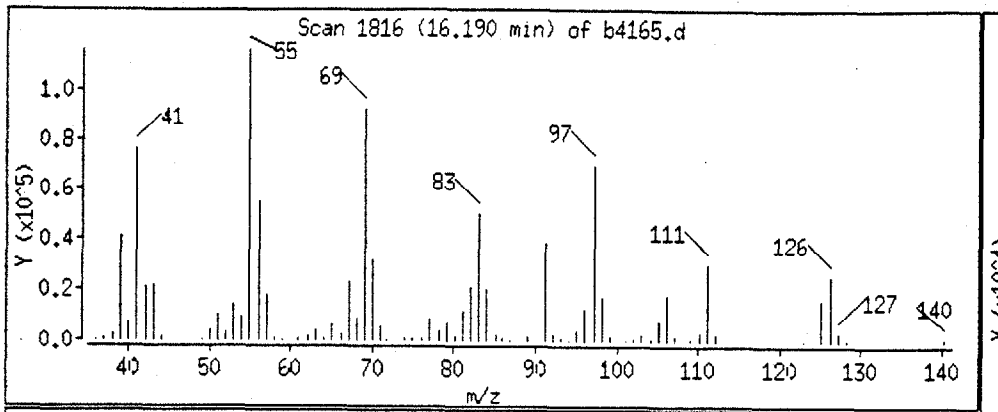
Sample ID :

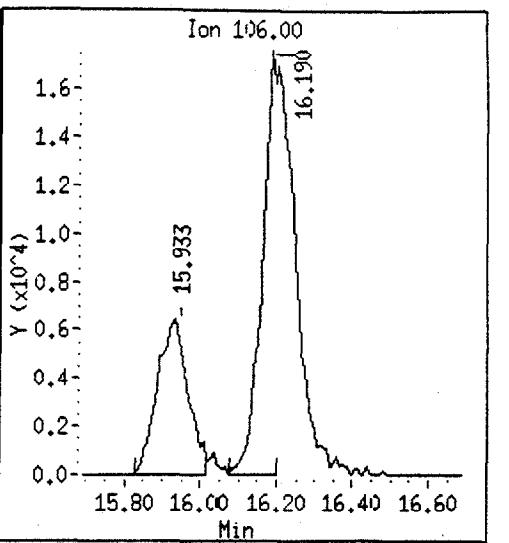
Column phase : J&W DB_624

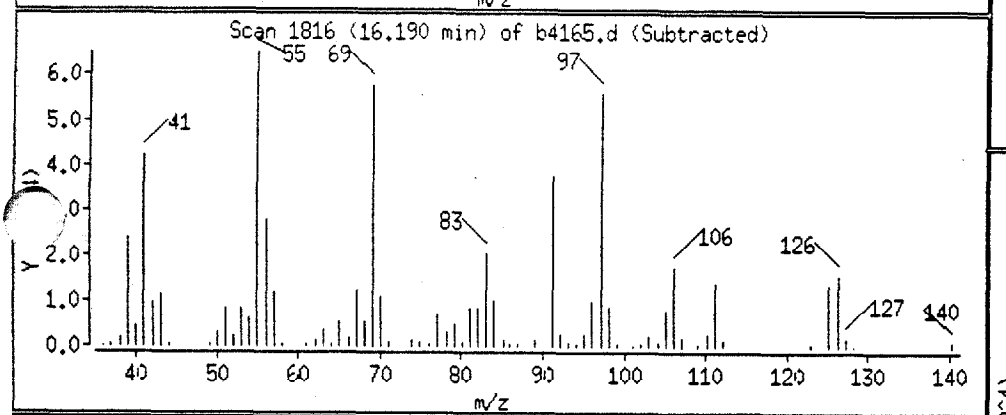
Column diameter : 0.53

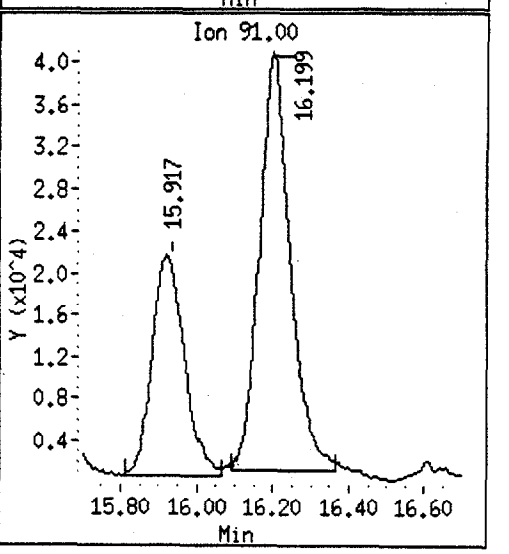
Volume Injected (uL) : 0.0

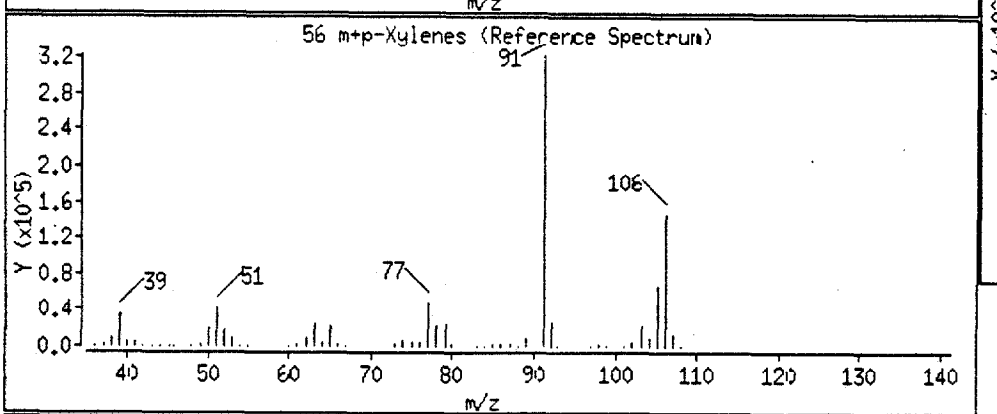
56 m+p-Xylenes

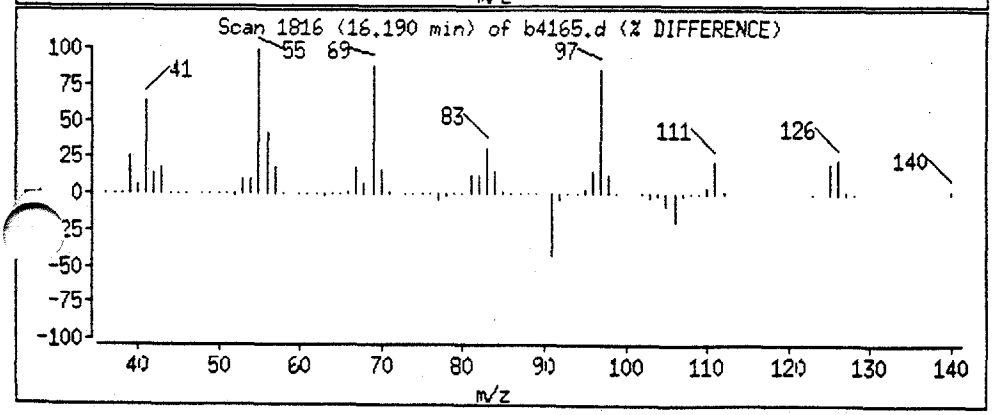












Data File: /chem/aux/msb.i/b062894.b/b4165.d

Date : 28-JUN-94 15:37

Instrument : msb.i

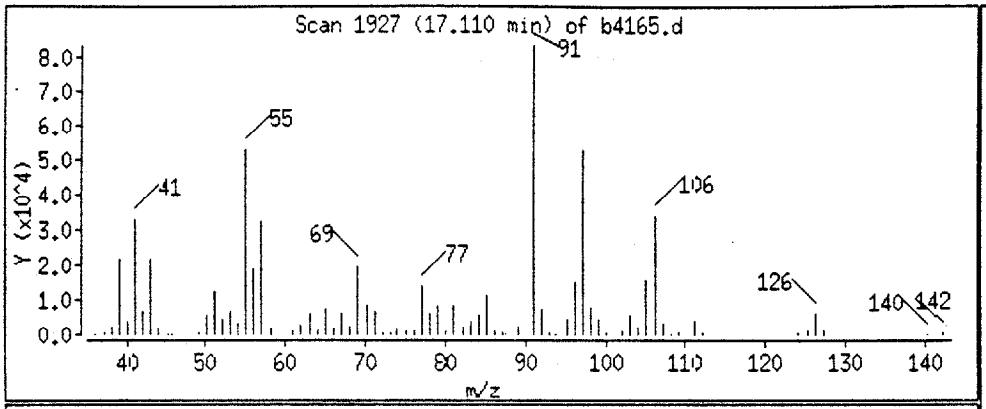
Sample ID :

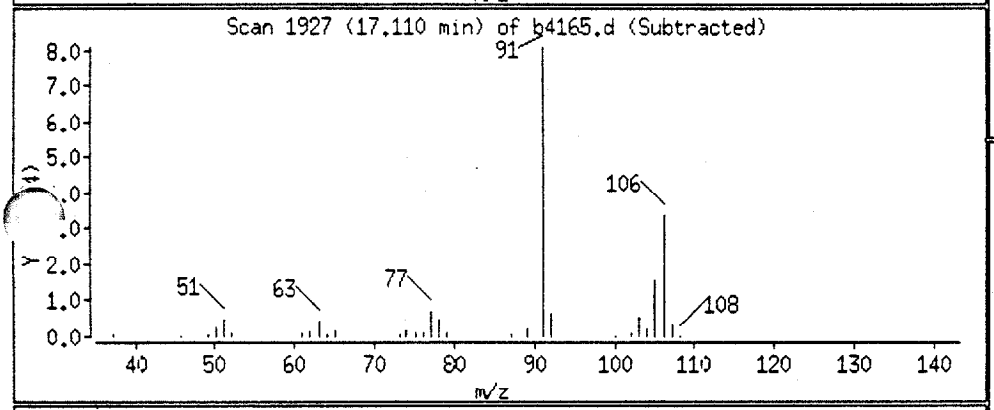
Column phase : J&W DB_624

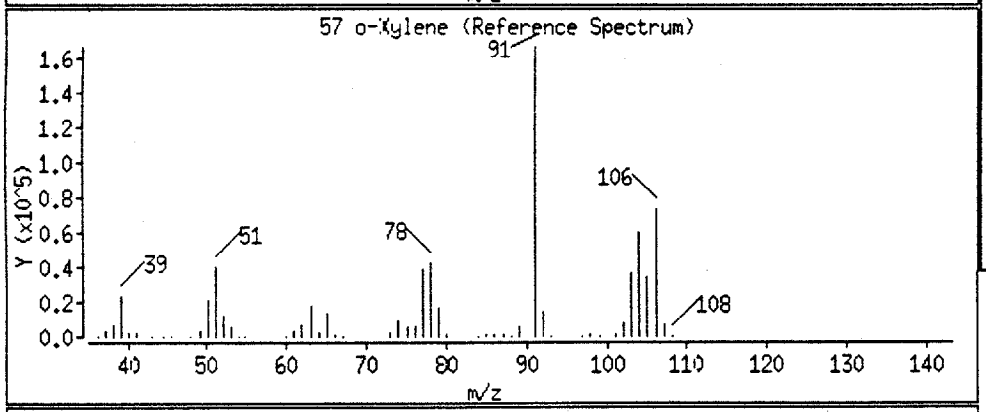
Column diameter : 0.53

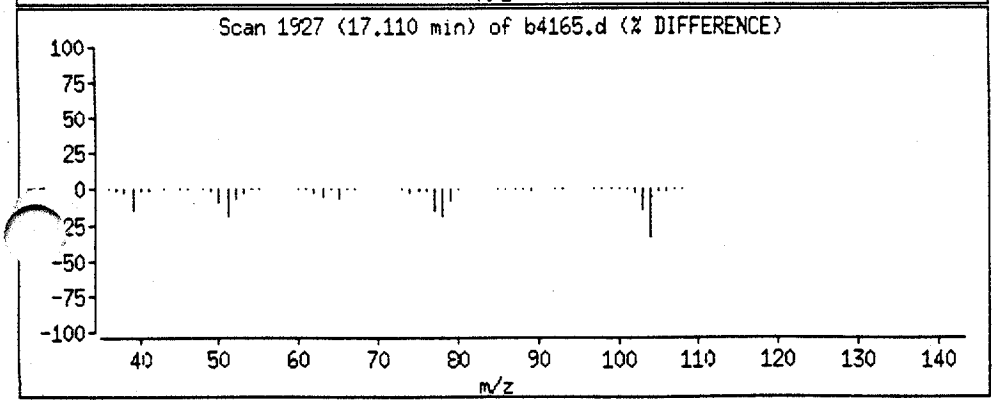
Volume Injected (uL) : 0.0

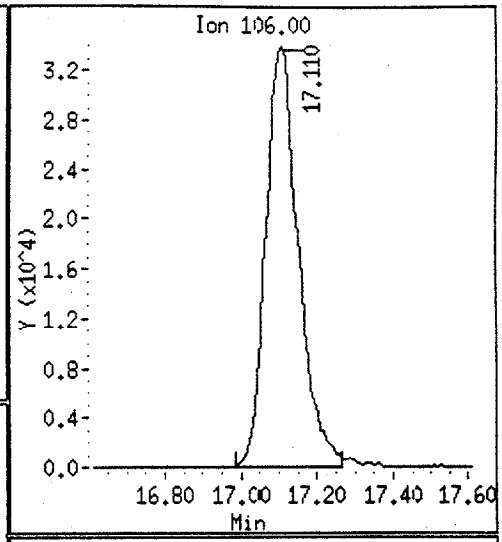
57 o-Xylene

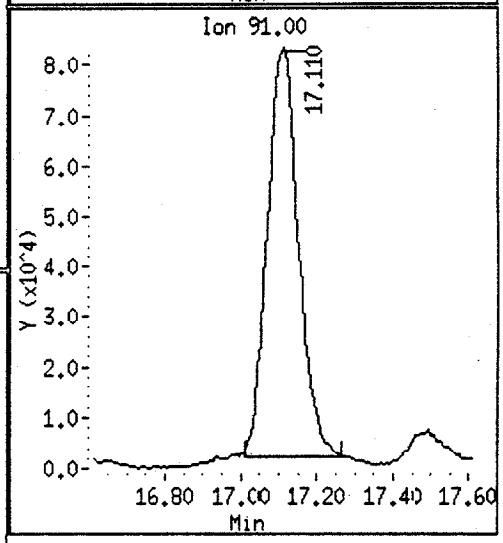












Data File: /chem/aux/msb.i/b062894.b/b4165.d

Date : 28-JUN-94 15:37

Instrument : msb.i

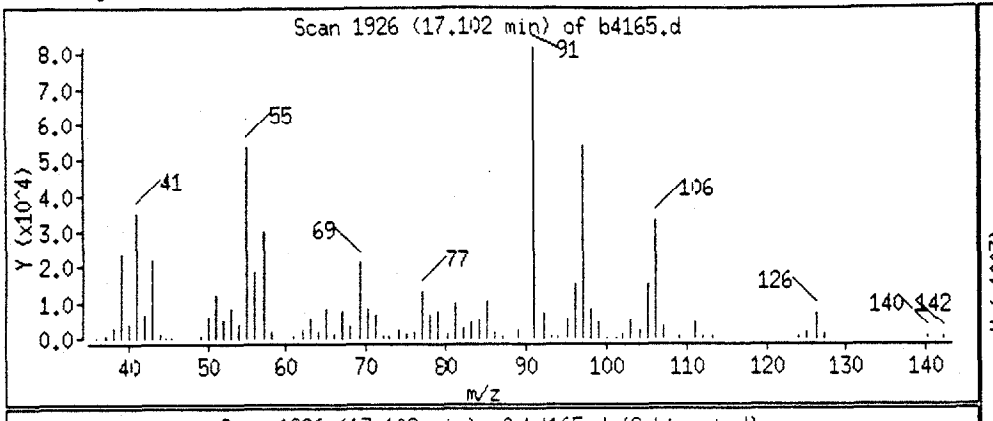
Sample ID :

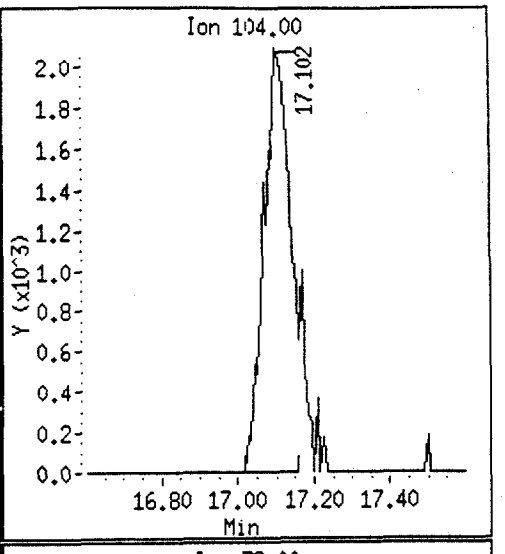
Column phase : J&W DB_624

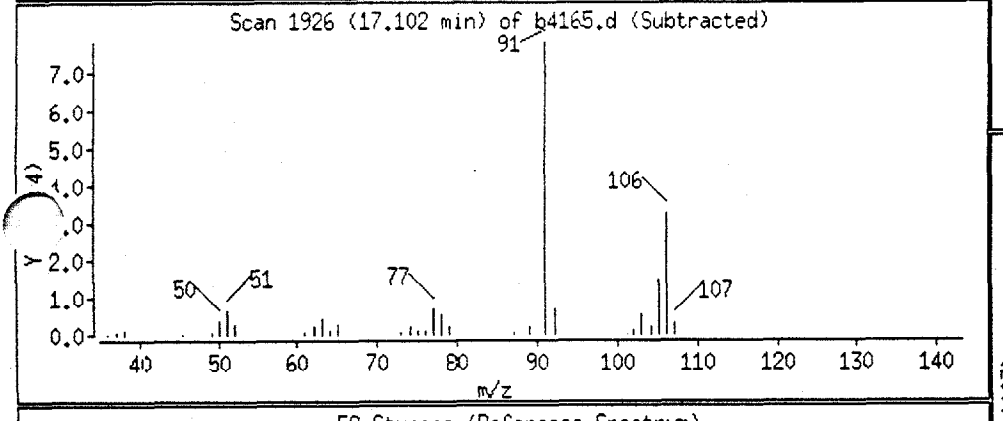
Column diameter : 0.53

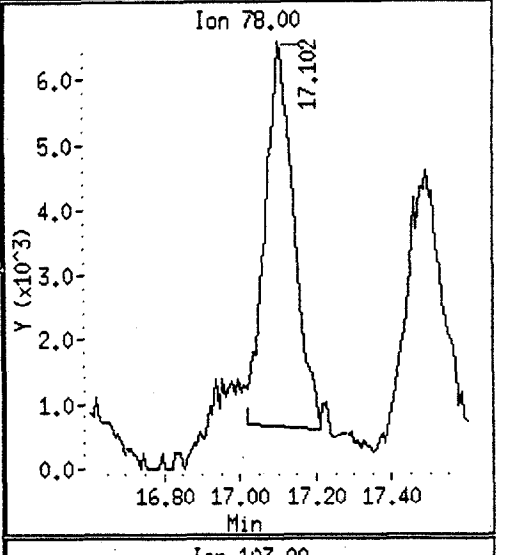
Volume Injected (uL) : 0.0

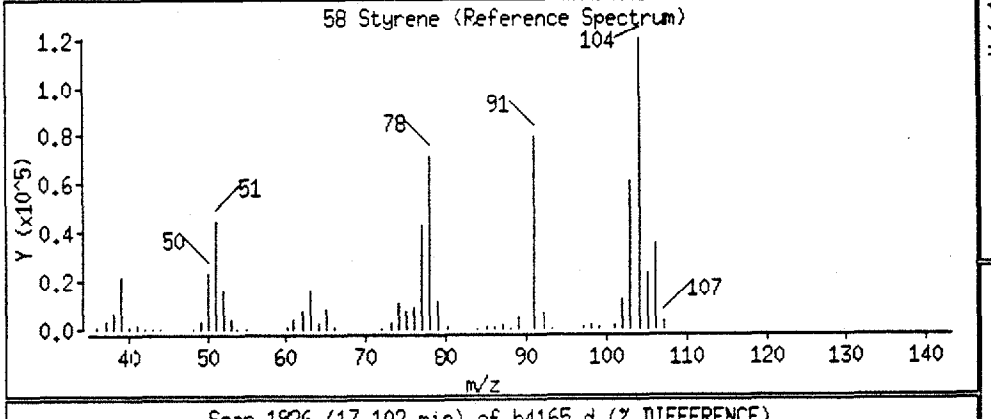
58 Styrene

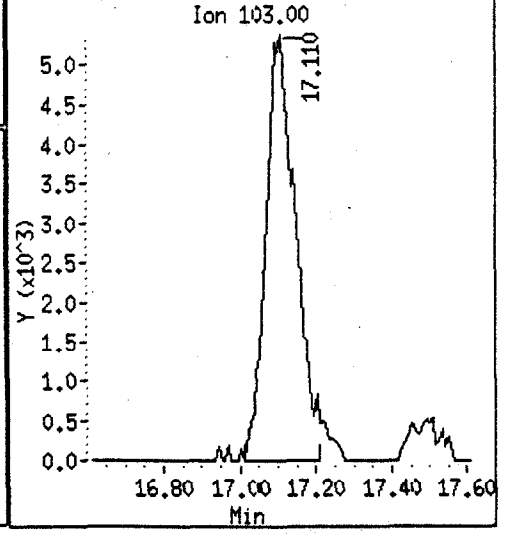


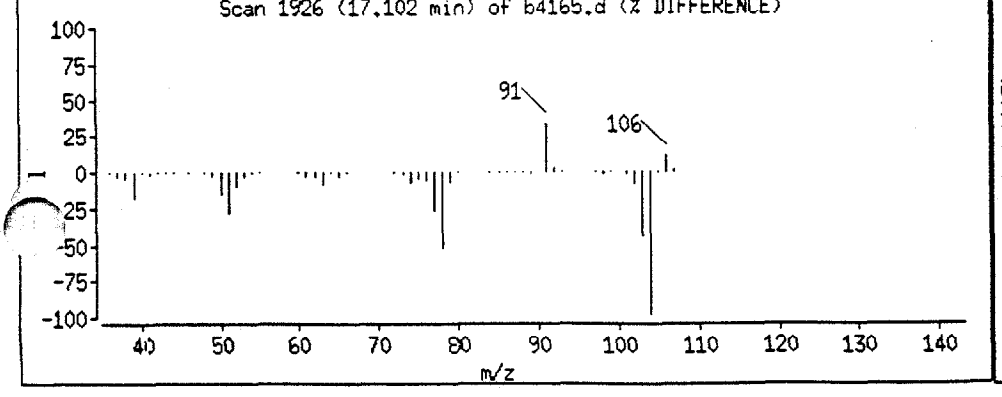












Data File: /chem/aux/msb.i/b062894.b/b4165.d

Date : 28-JUN-94 15:37

Instrument : msb.i

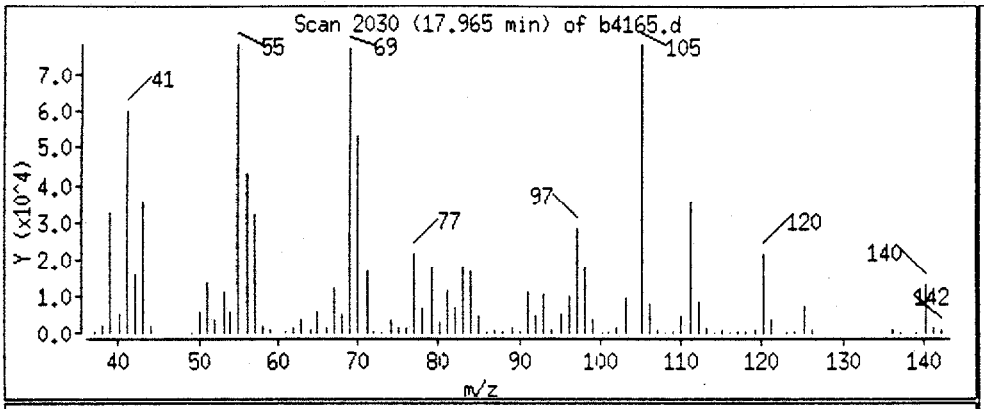
Sample ID :

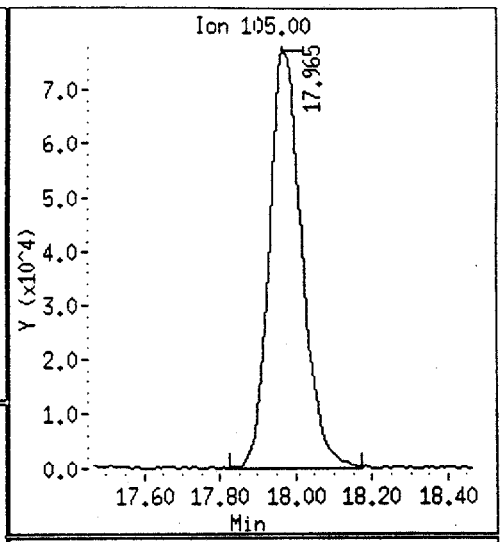
Column phase : J&W DB_624

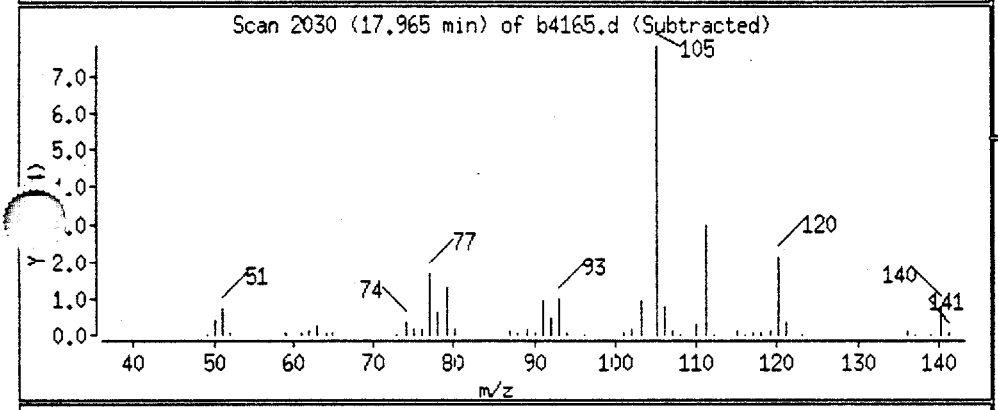
Column diameter : 0.53

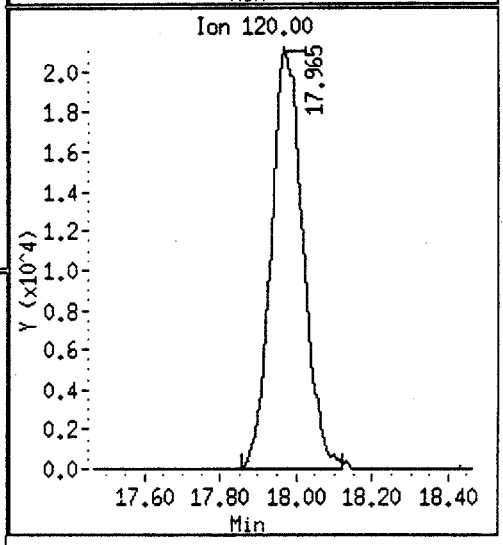
Volume Injected (uL) : 0.0

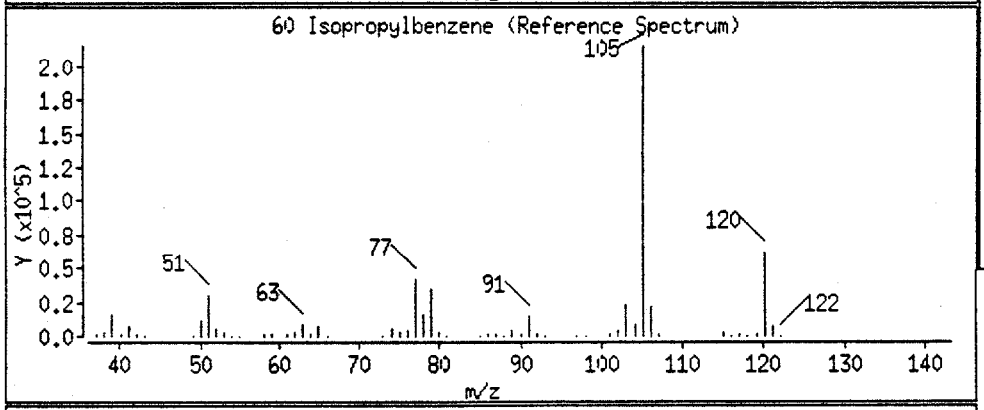
60 Isopropylbenzene

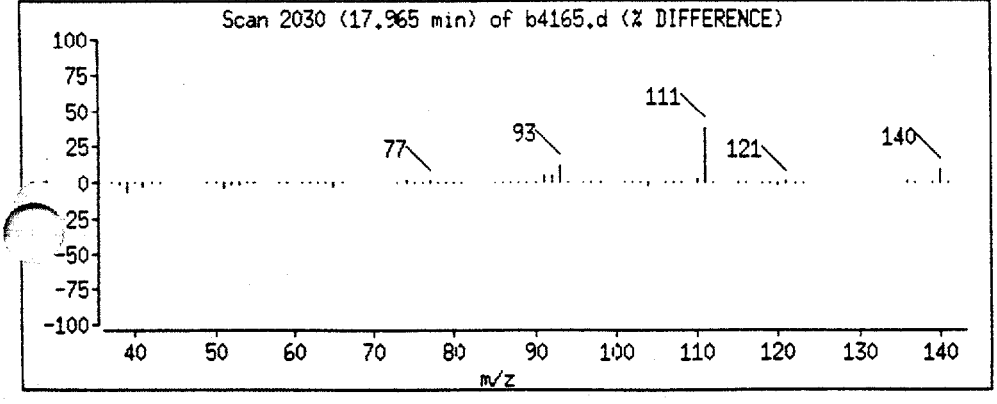












Data File: /chem/aux/msb.i/b062894.b/b4165.d

Date : 28-JUN-94 15:37

Instrument : msb.i

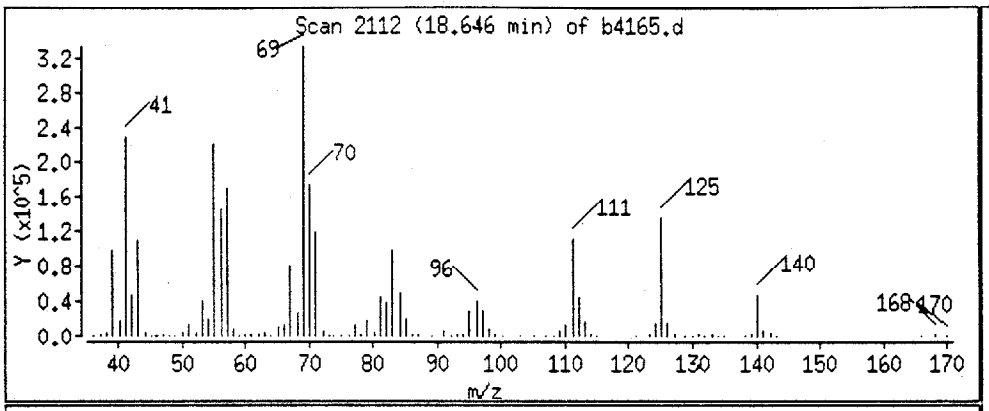
Sample ID :

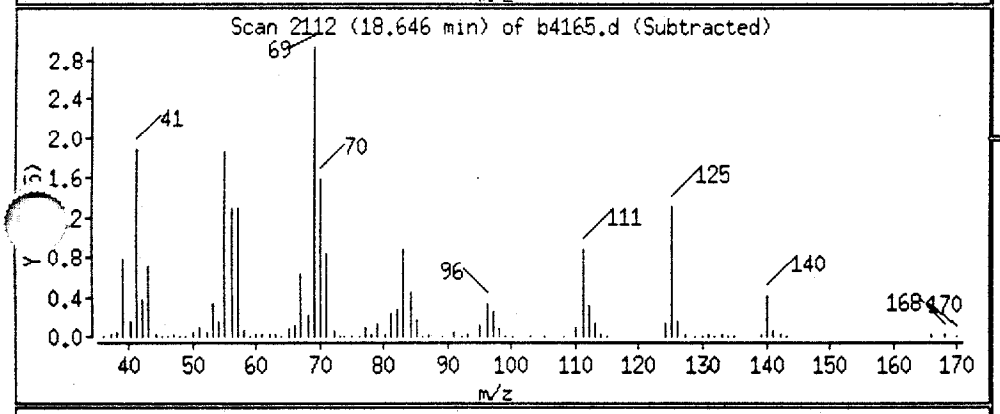
Column phase : J&W DB_624

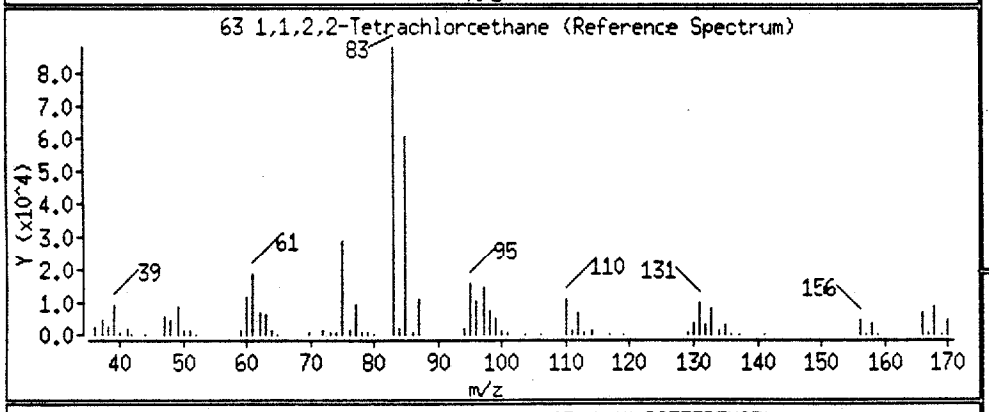
Column diameter : 0.53

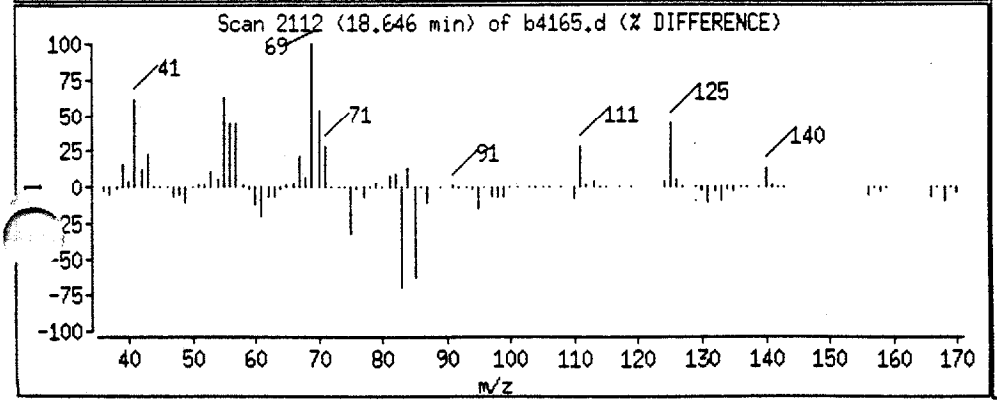
Volume Injected (uL) : 0.0

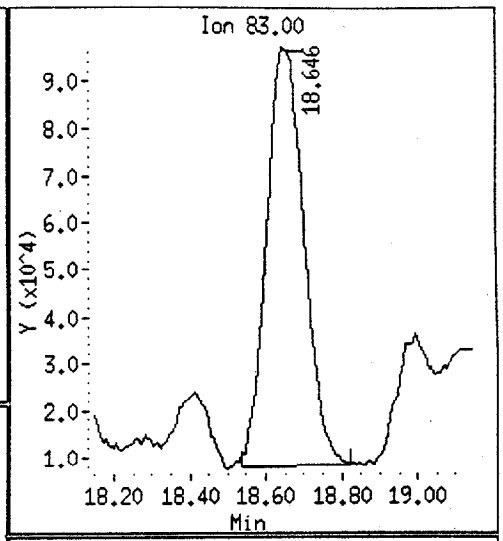
63 1,1,2,2-Tetrachloroethane

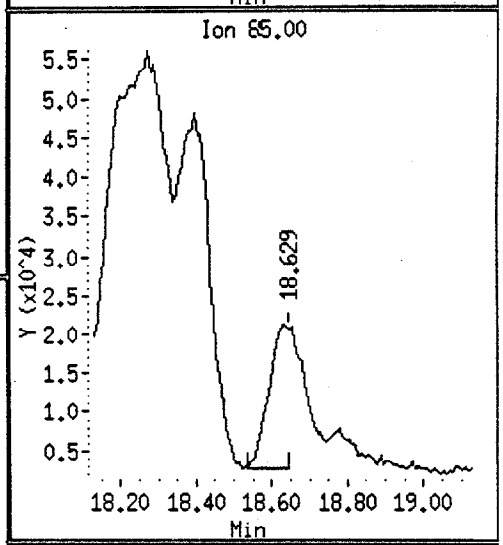


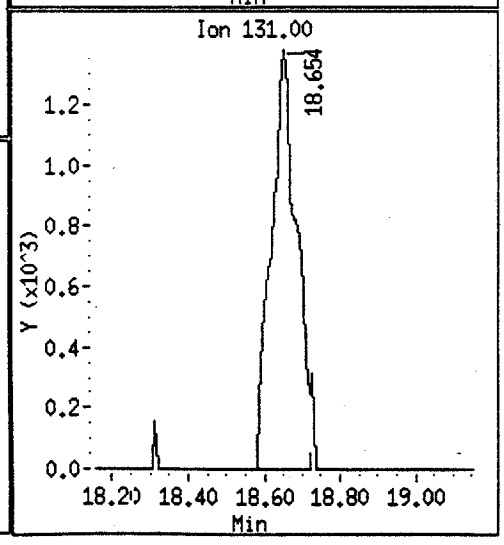












Data File: /chem/aux/msb.i/b062894.b/b4165.d

Date : 28-JUN-94 15:37

Instrument : msb.i

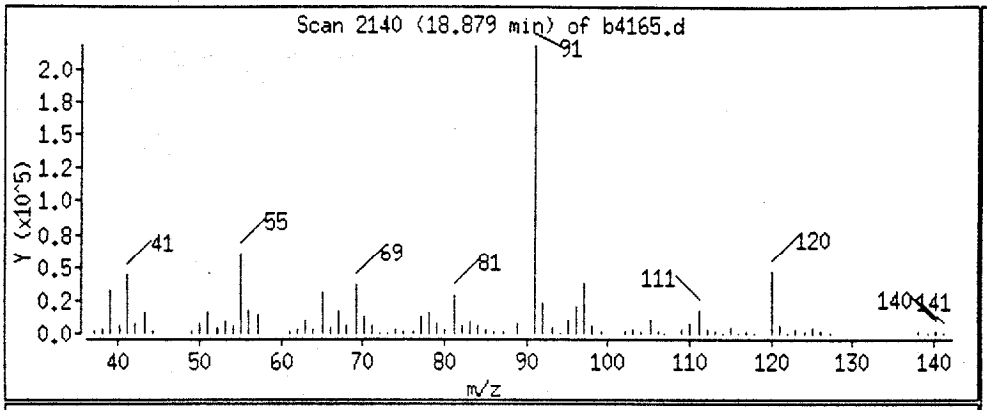
Sample ID :

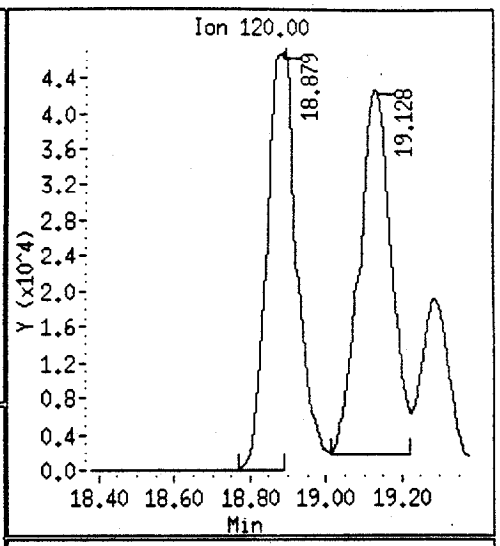
Column phase : J&W DB_624

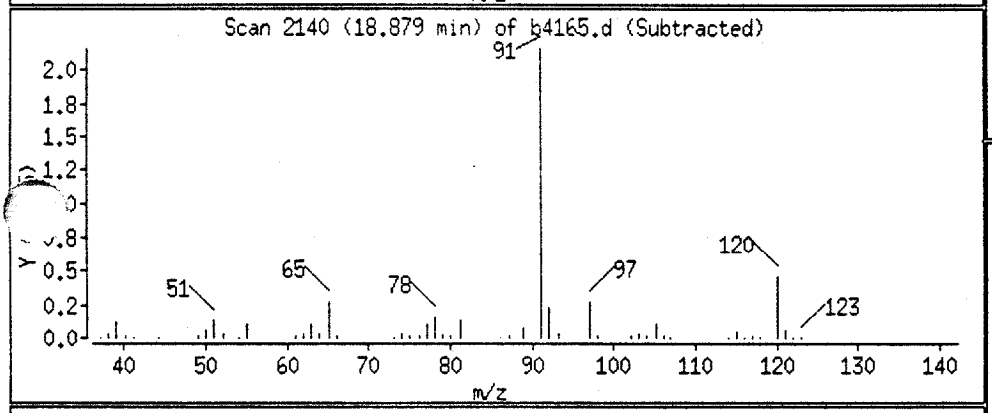
Column diameter : 0.53

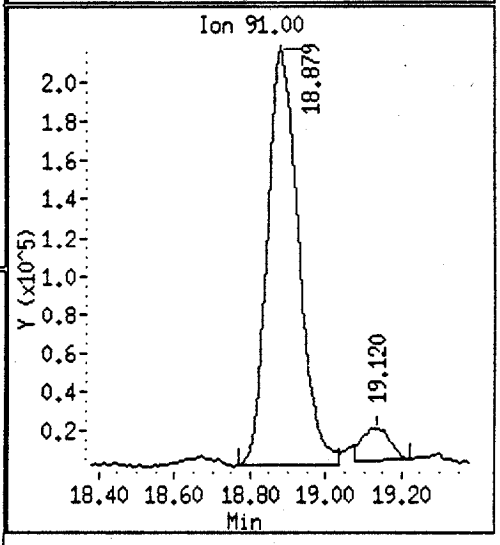
Volume Injected (uL) : 0.0

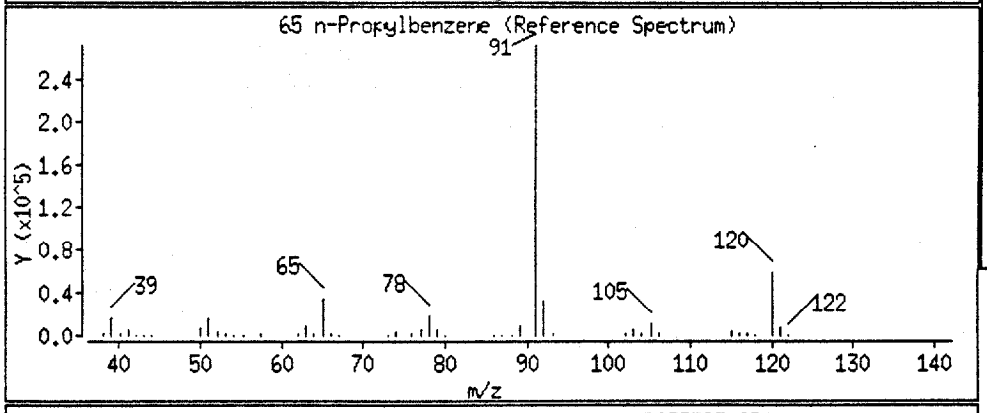
65 n-Propylbenzene

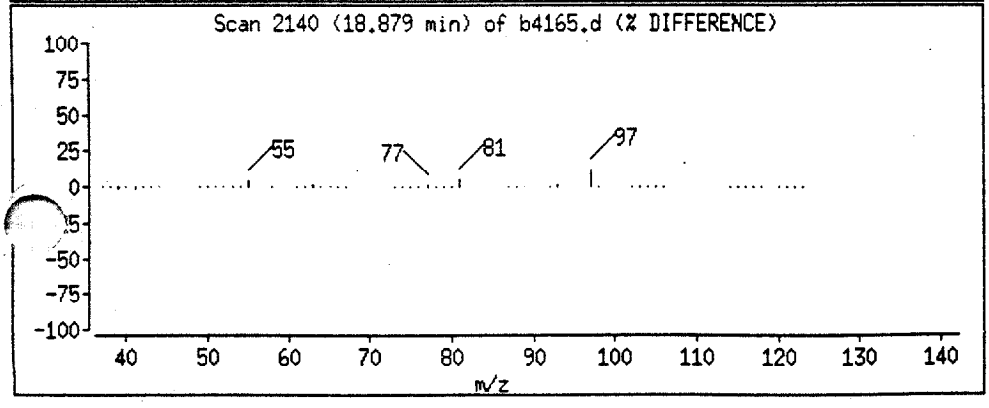












Data File: /chem/aux/msb.i/b062894.b/b4165.d

Date : 28-JUN-94 15:37

Instrument : msb.i

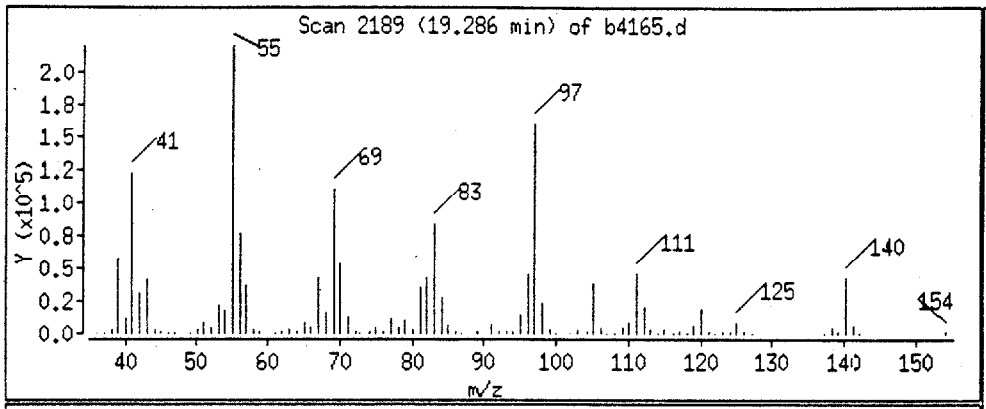
Sample ID :

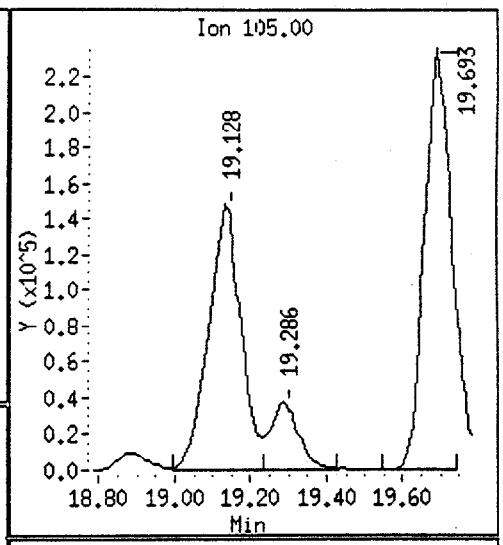
Column phase : J&W DB_624

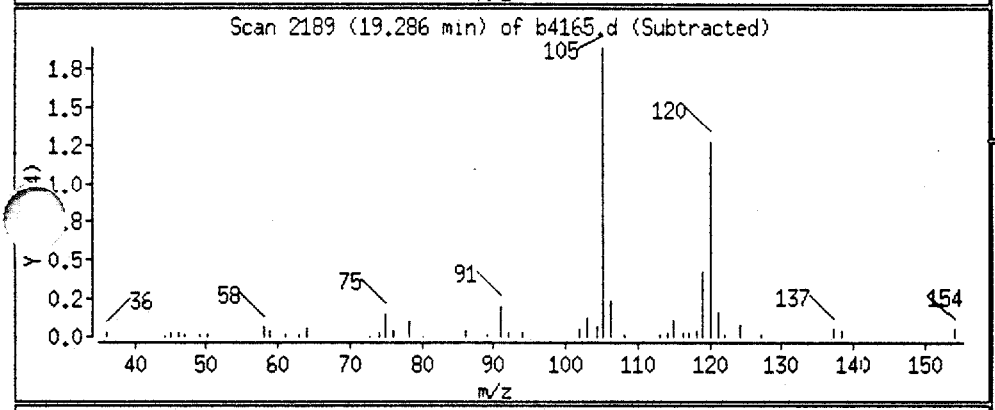
Column diameter : 0.53

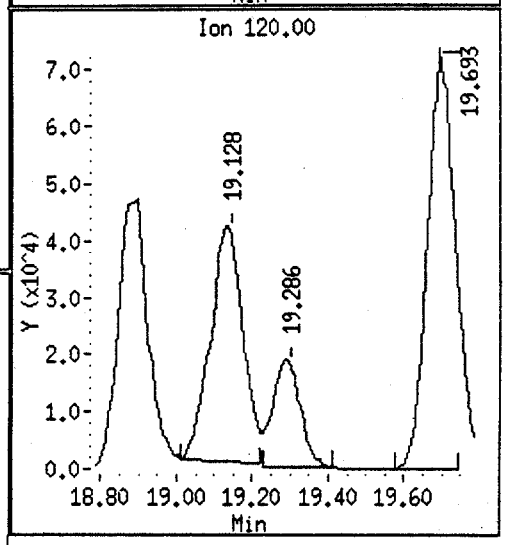
Volume Injected (uL) : 0.0

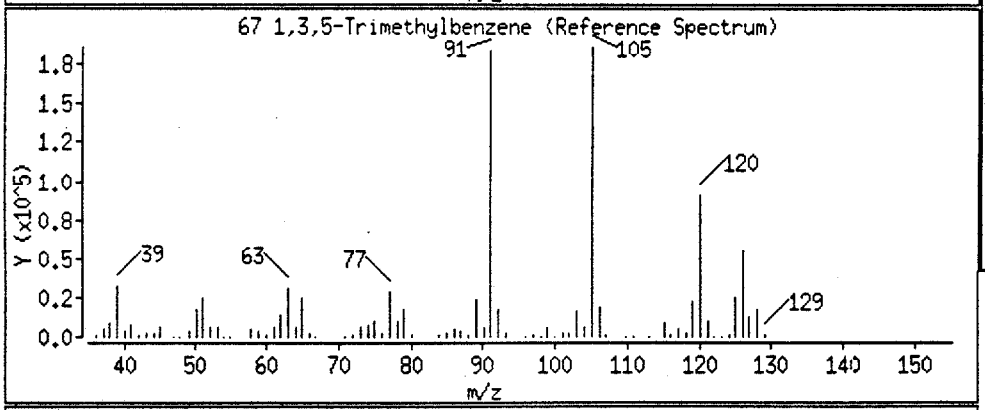
67 1,3,5-Trimethylbenzene

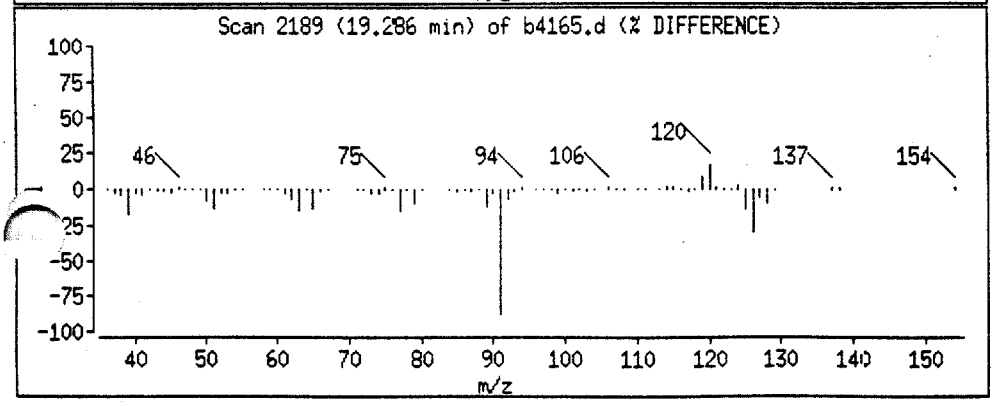












Data File: /chem/aux/msb.i/b062894.b/b4165.d

Date : 28-JUN-94 15:37

Instrument : msb.i

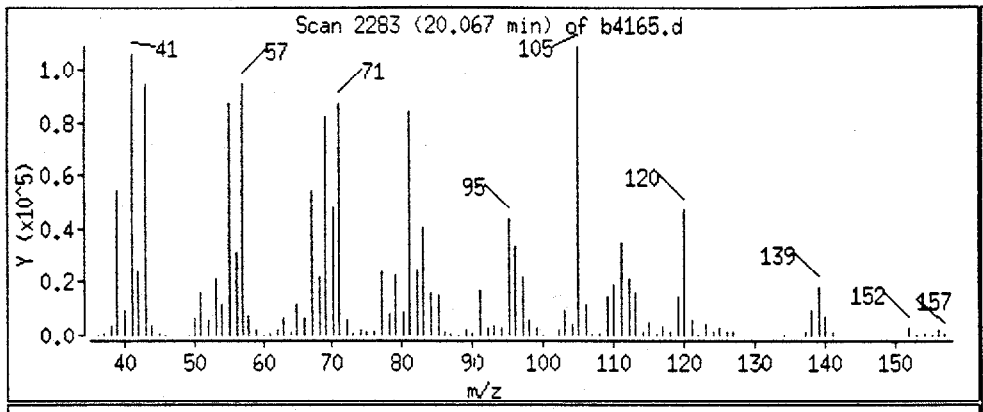
Sample ID :

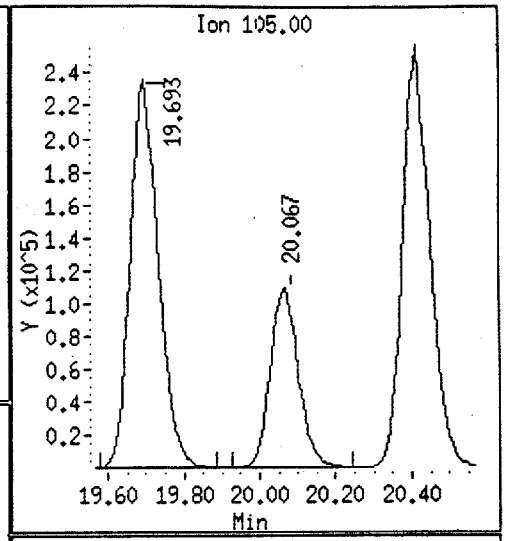
Column phase : J&W DB_624

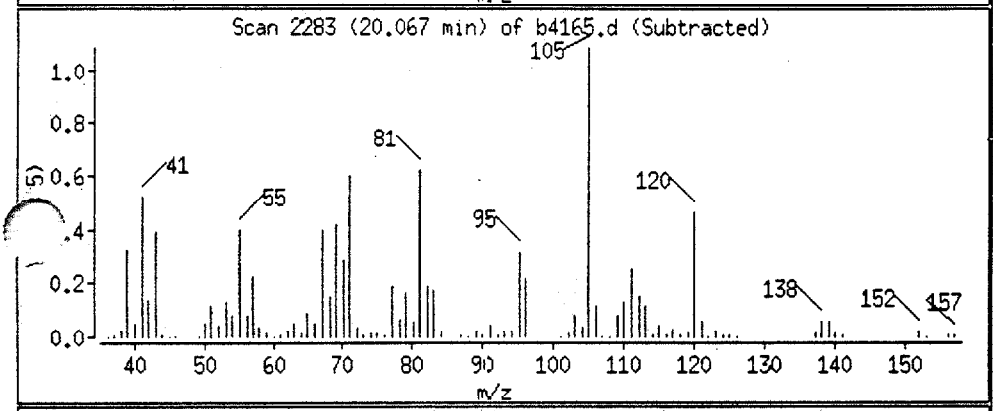
Column diameter : 0.53

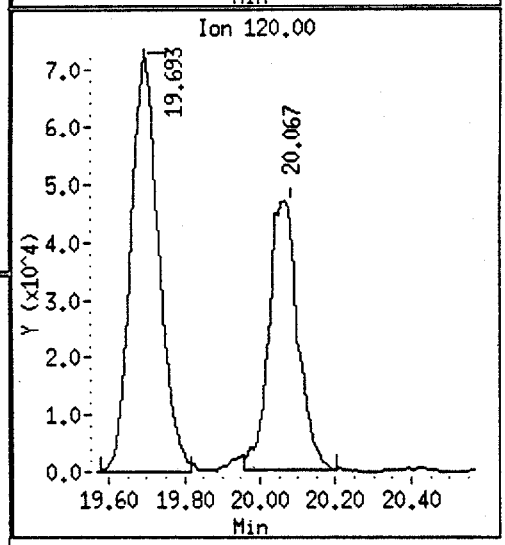
Volume Injected (uL) : 0.0

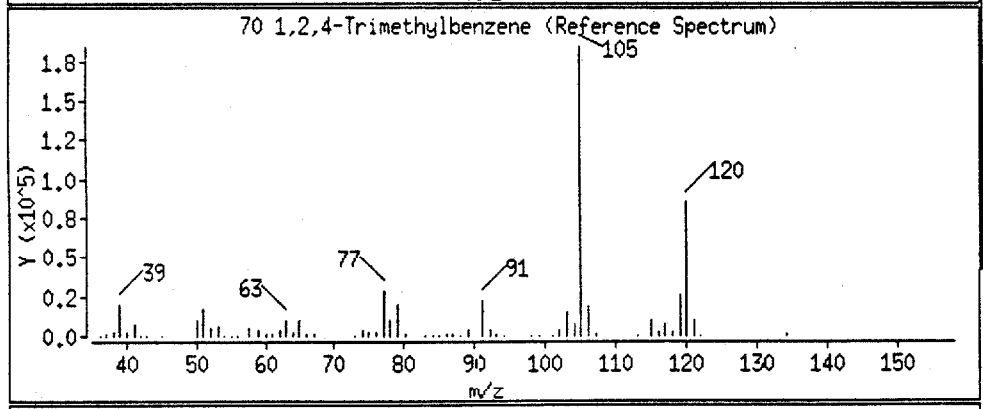
70 1,2,4-Trimethylbenzene

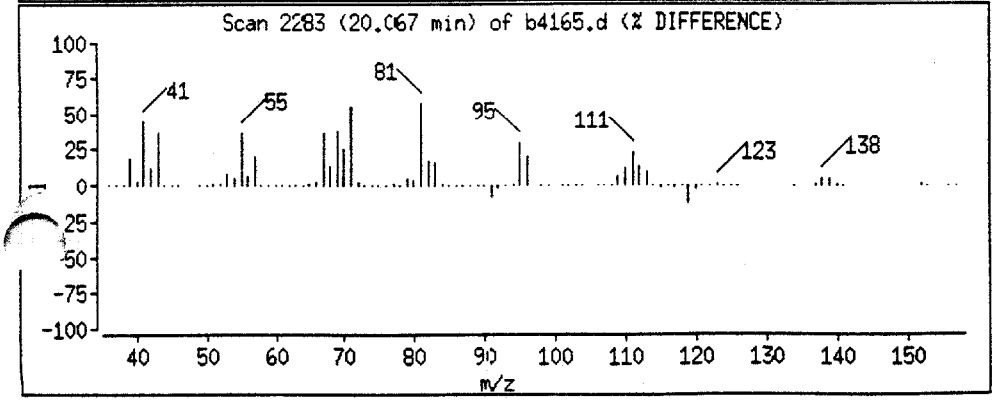












Data File: /chem/aux/msb.i/b062894.b/b4165.d

Date : 28-JUN-94 15:37

Instrument : msb.i

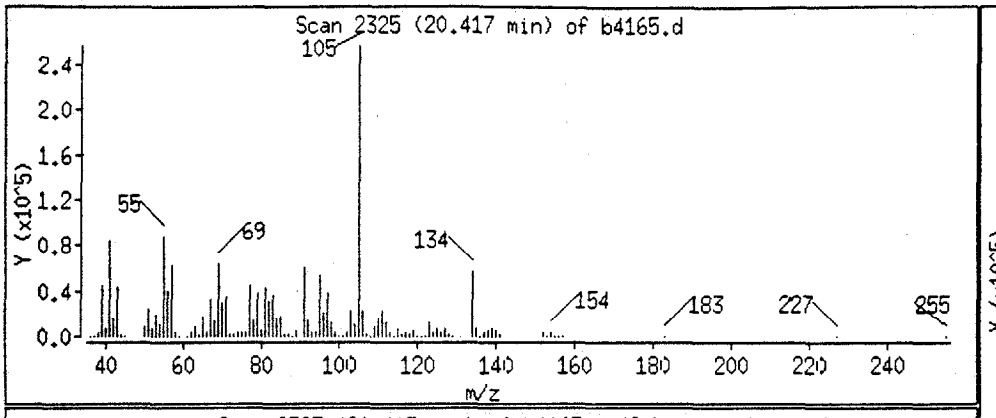
Sample ID :

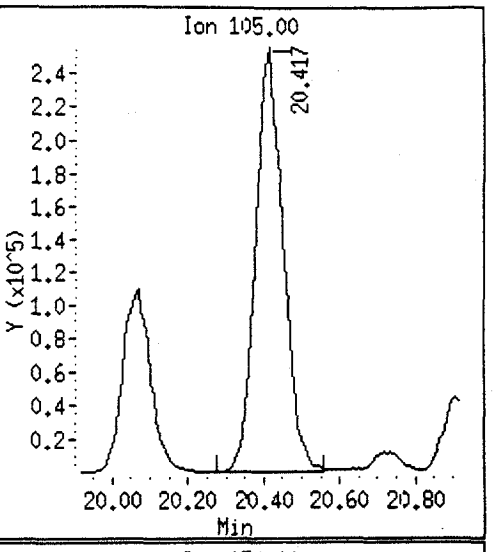
Column phase : J&W DB_624

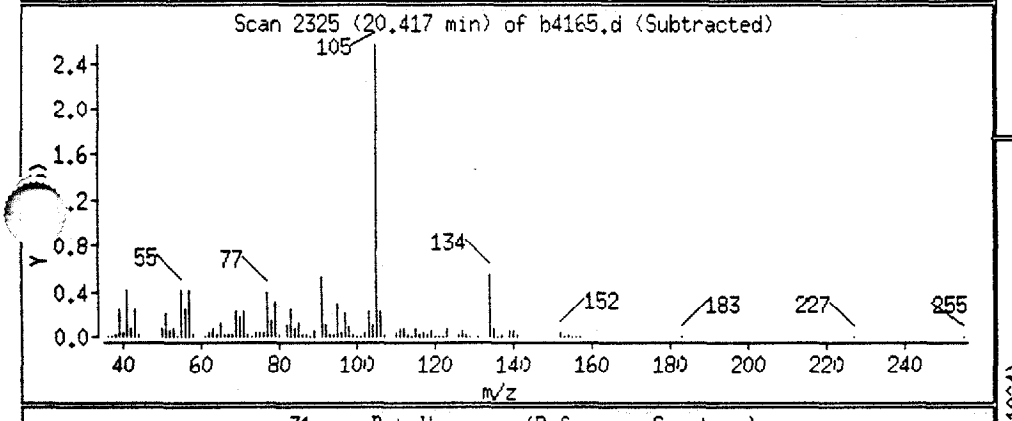
Column diameter : 0.53

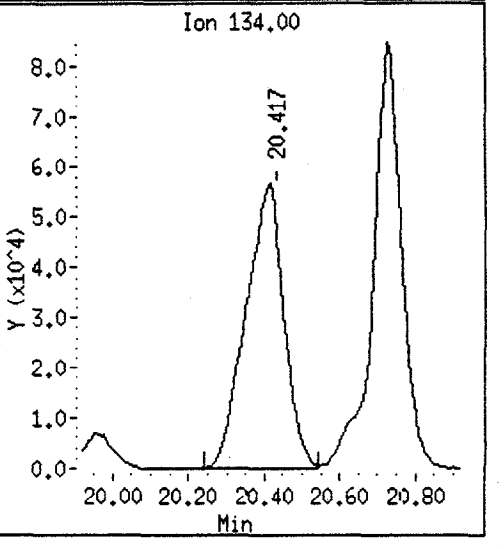
Volume Injected (uL) : 0.0

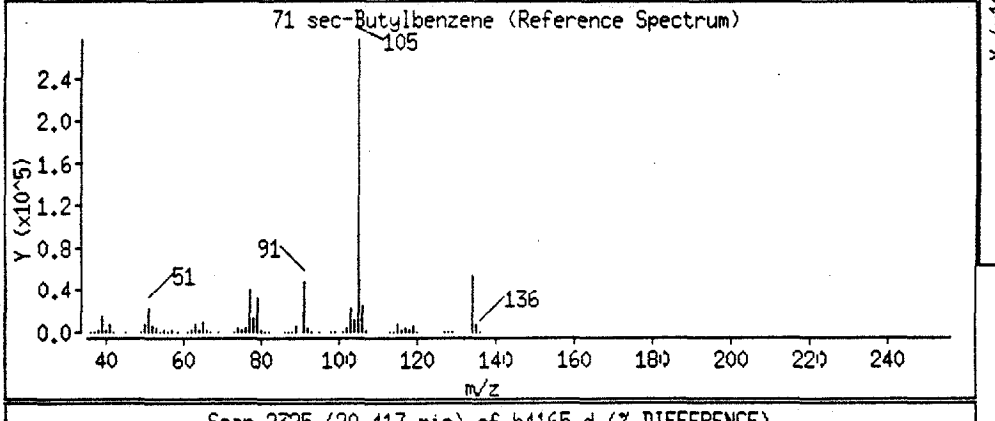
71 sec-Butylbenzene

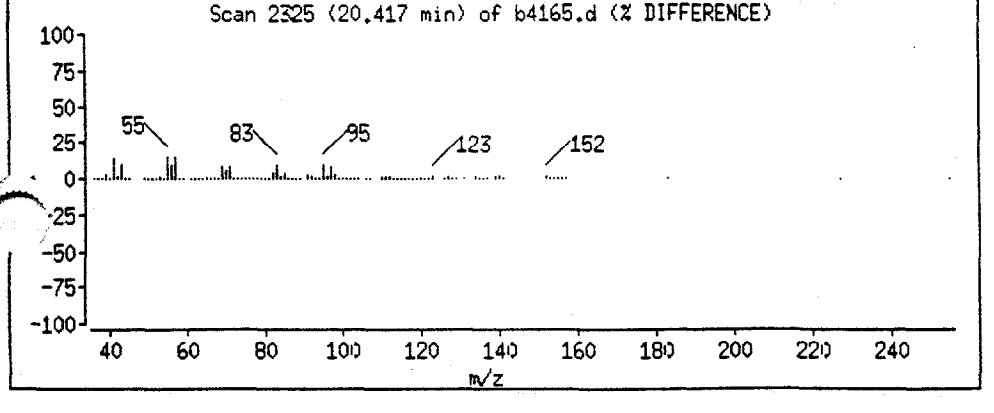












Data File: /chem/aux/msb.i/b062894.b/b4165.d

Date : 28-JUN-94 15:37

Instrument : msb.i

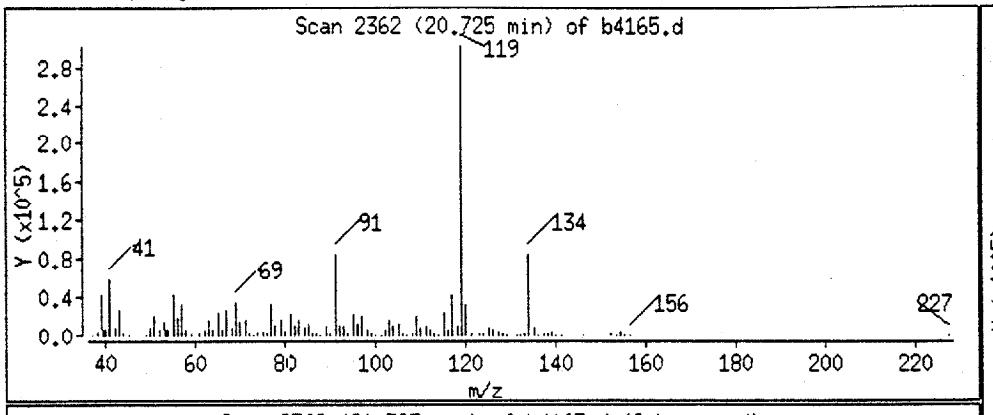
Sample ID :

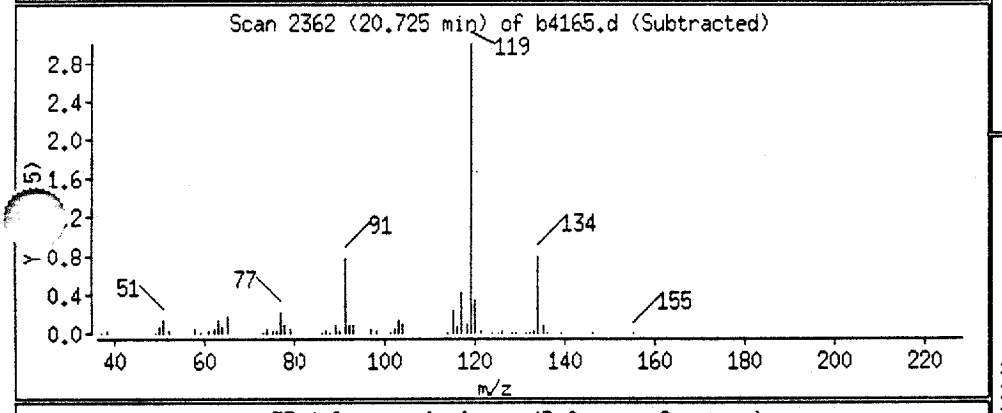
Column phase : J&W DB_624

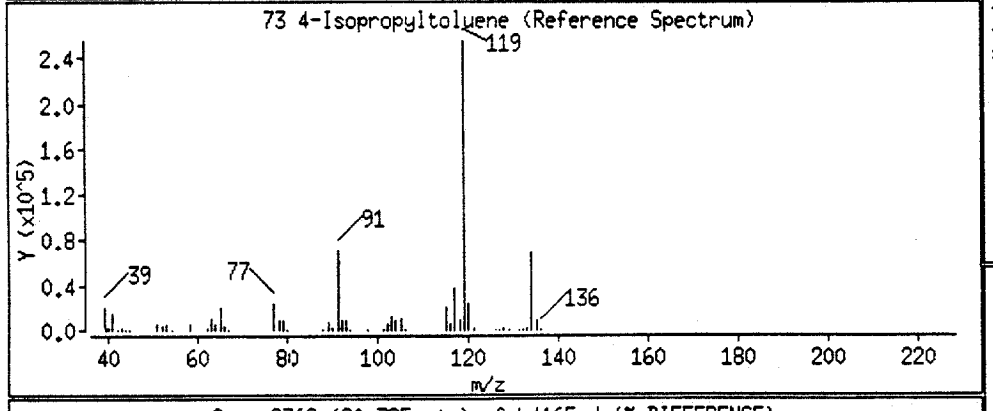
Column diameter : 0.53

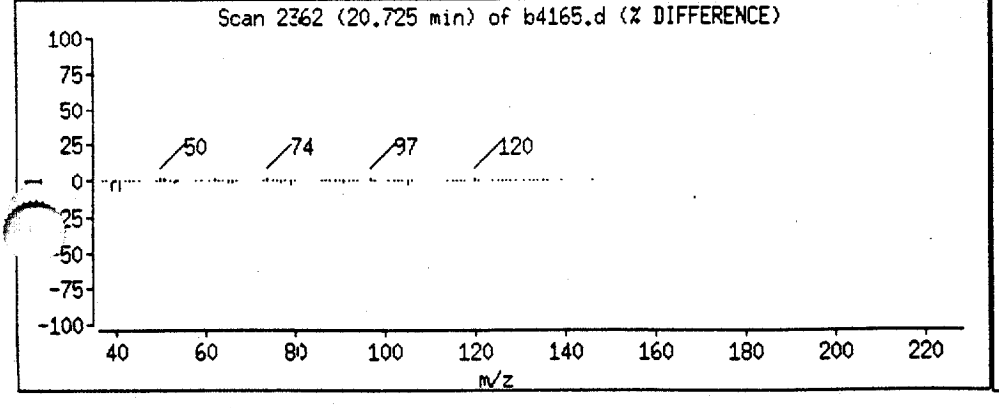
Volume Injected (uL) : 0.0

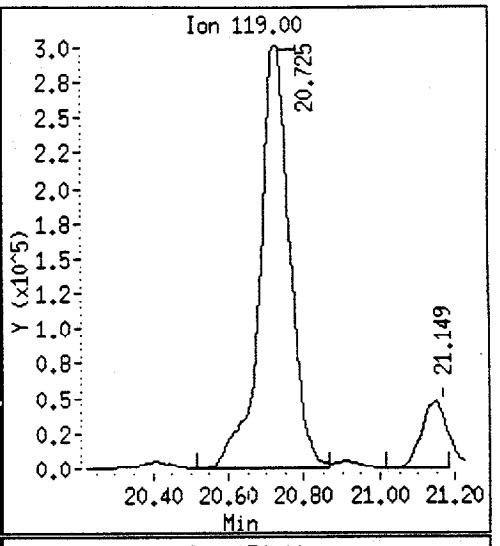
73 4-Isopropyltoluene

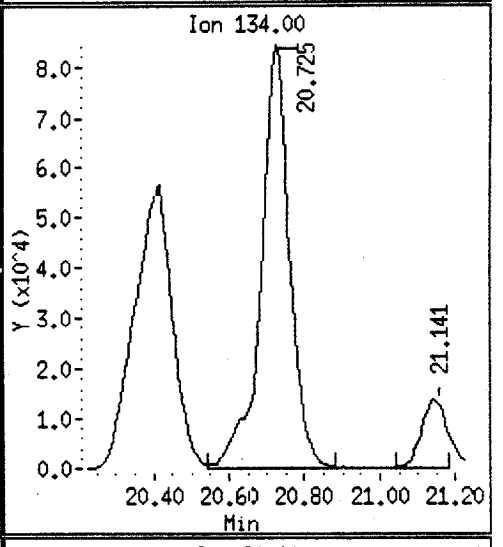


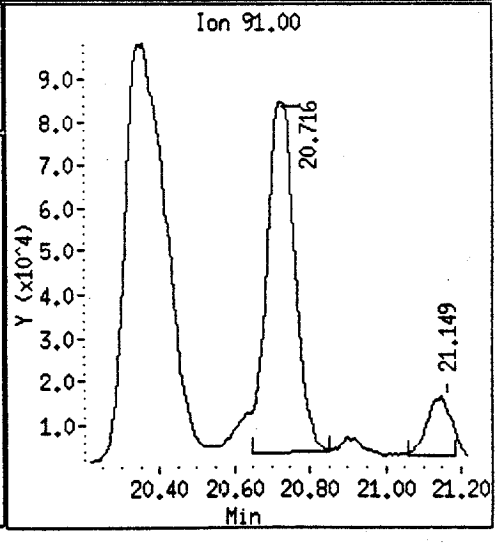












Data File: /chem/aux/msb.i/b062894.b/b4165.d

Date : 28-JUN-94 15:37

Instrument : msb.i

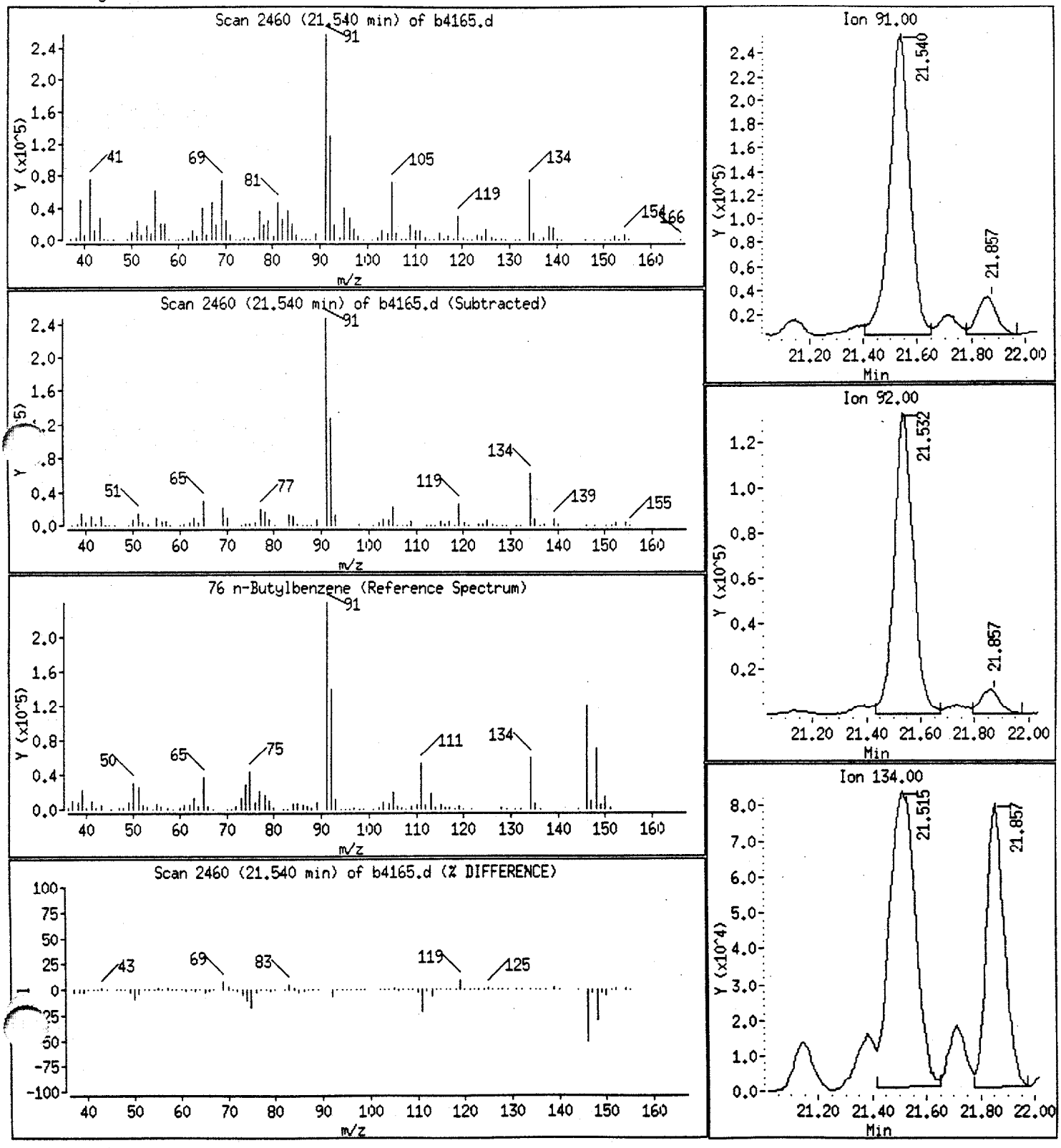
Sample ID :

Column phase : J&W DB_624

Column diameter : 0.53

Volume Injected (uL) : 0.0

76 n-Butylbenzene



Data File: /chem/aux/msb.i/b062894.b/b4165.d

Date : 28-JUN-94 15:37

Instrument : msb.i

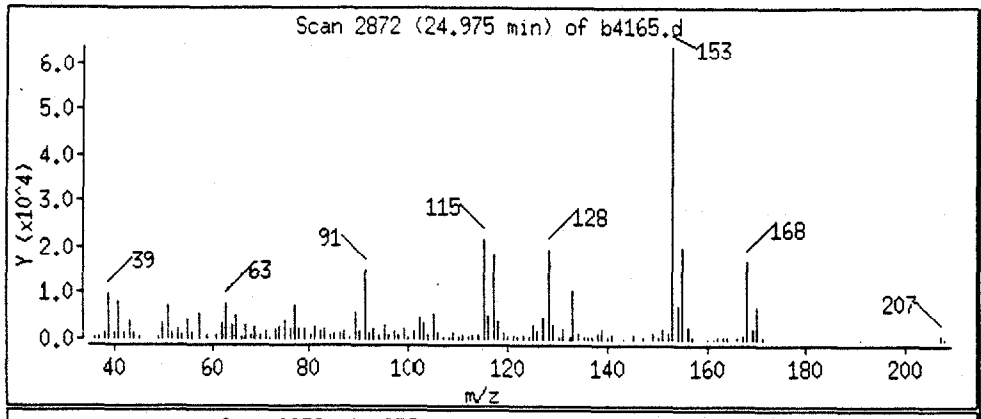
Sample ID :

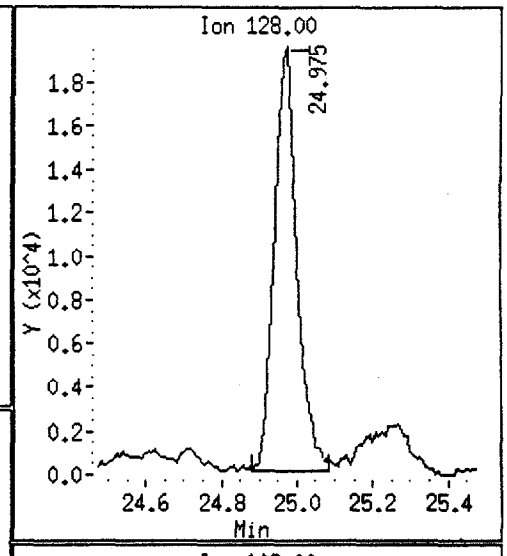
Column phase : J&W DB_624

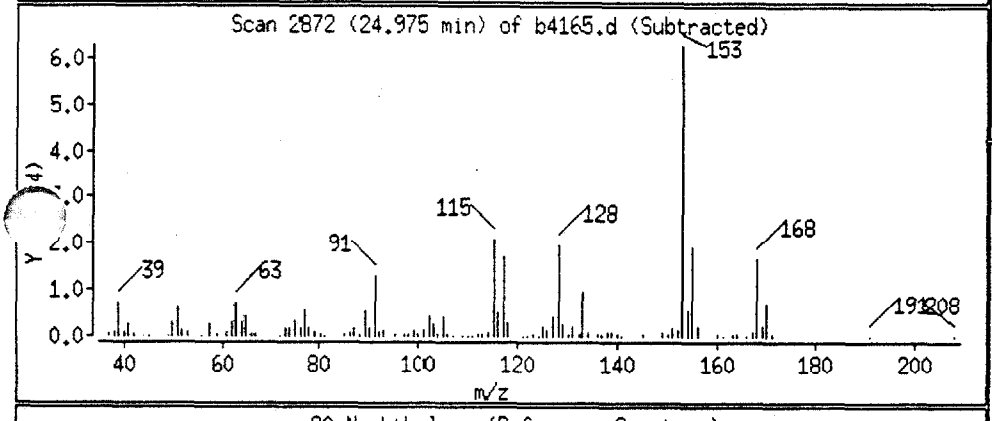
Column diameter : 0.53

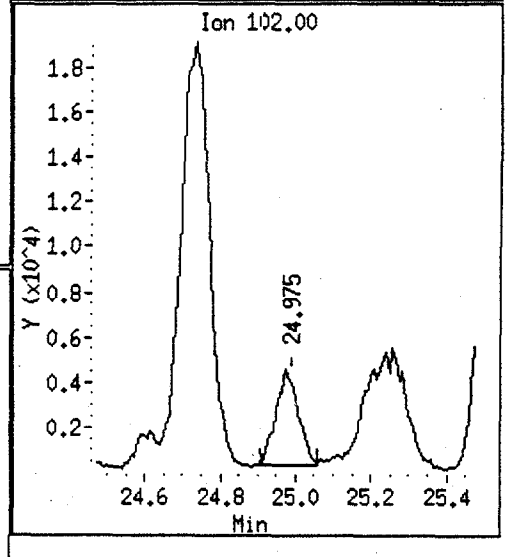
Volume Injected (uL) : 0.0

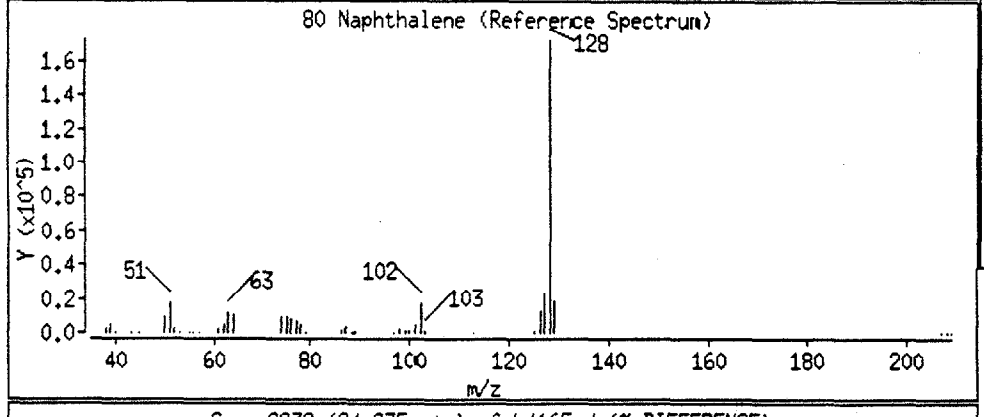
80 Naphthalene

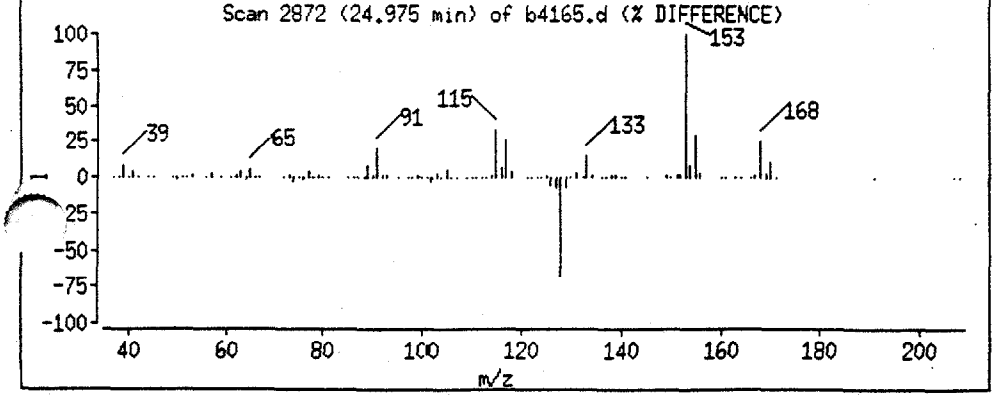






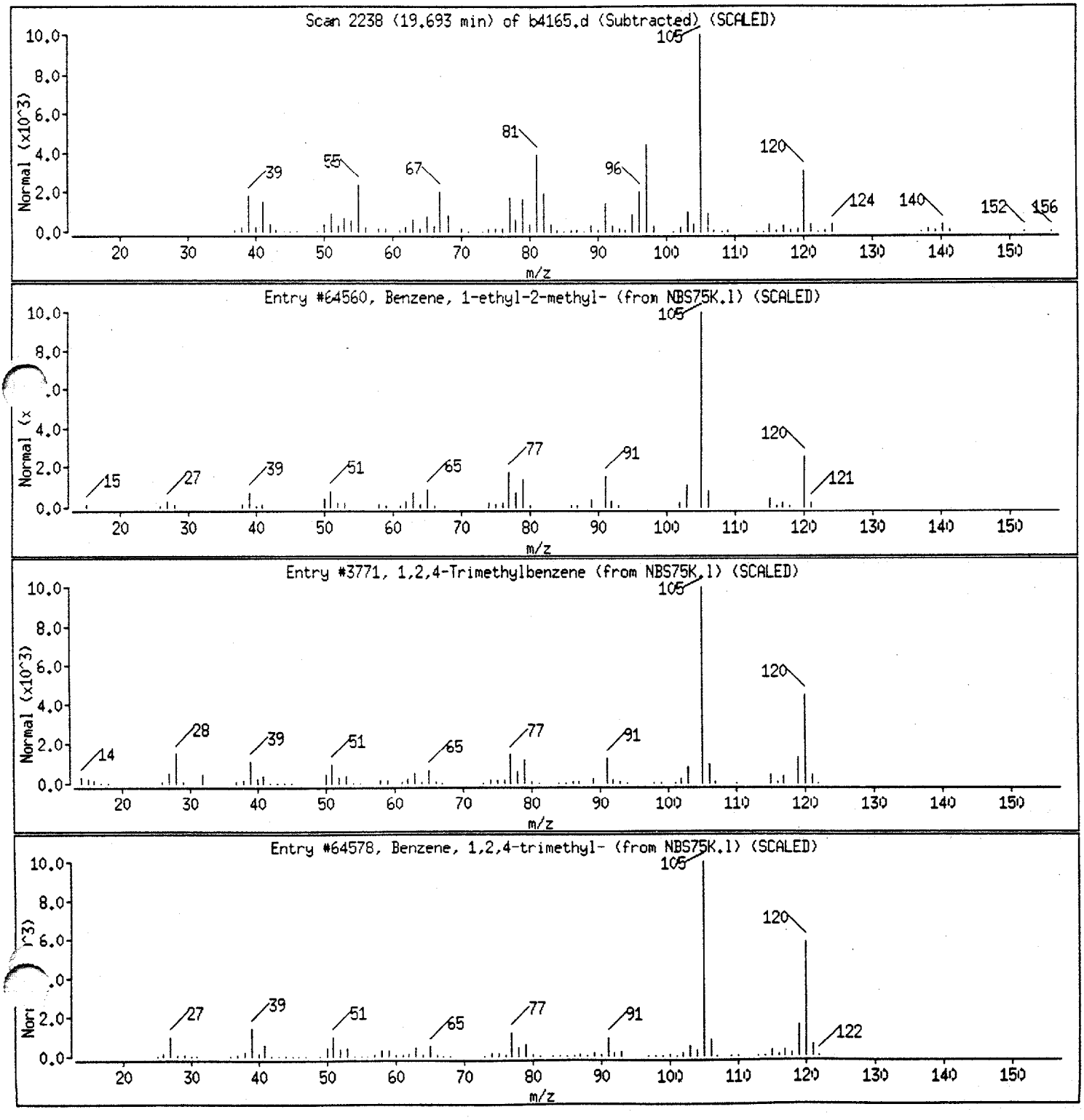






Data File: /chem/aux/msb.i/b062894.b/b4165.d
Date : 28-JUN-94 15:37
Instrument : msb.i
Sample ID :
Column phase : J&W DB_624
Column diameter : 0.53
Volume Injected (uL) : 0.0

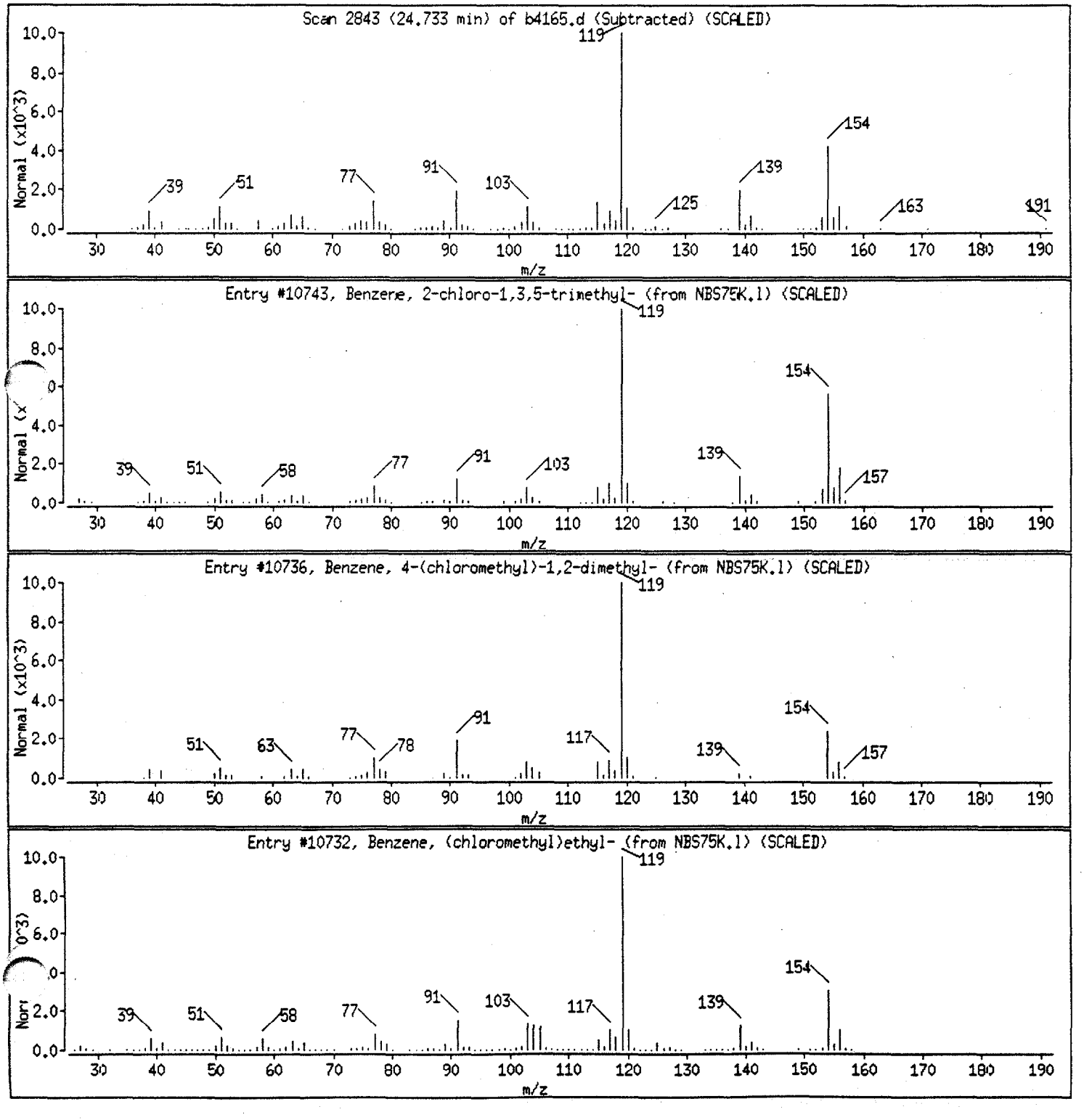
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Benzene, 1-ethyl-2-methyl-	611-14-3	NBS75K.l	64560	74
1,2,4-Trimethylbenzene	95-36-3	NBS75K.l	3771	38
Benzene, 1,2,4-trimethyl-	95-63-6	NBS75K.l	64578	38



Data File: /chem/aux/msb.i/b062894.b/b4165.d

Date : 28-JUN-94 15:37
Instrument : msb.i
Sample ID :
Column phase : J&W DB_624 Column diameter : 0.53
Volume Injected (uL) : 0.0

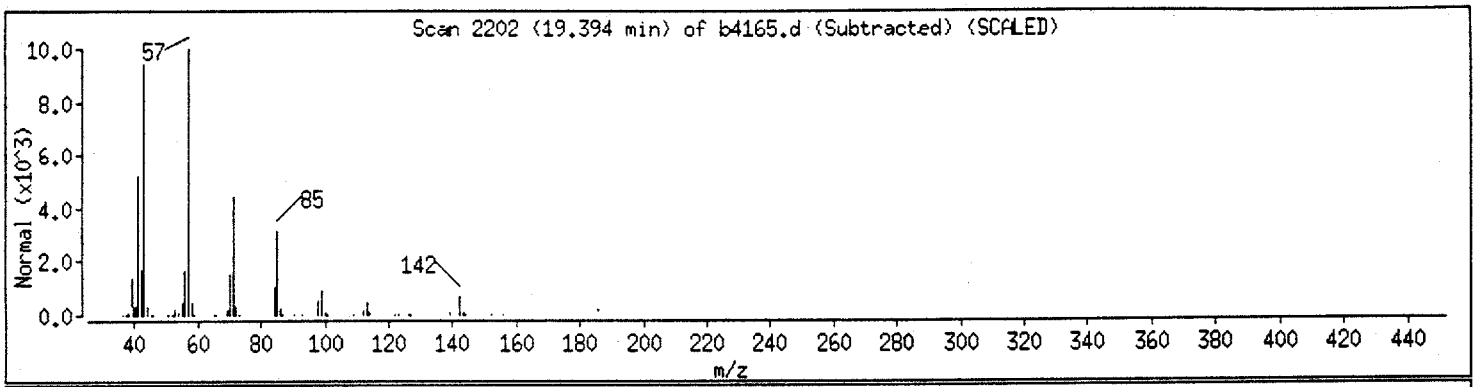
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Benzene, 2-chloro-1,3,5-trimethyl-	1667-04-5	NBS75K.1	10743	90
Benzene, 4-(chloromethyl)-1,2-dimethyl-	102-46-5	NBS75K.1	10736	87
Benzene, (chloromethyl)ethyl-	26968-58-1	NBS75K.1	10732	87

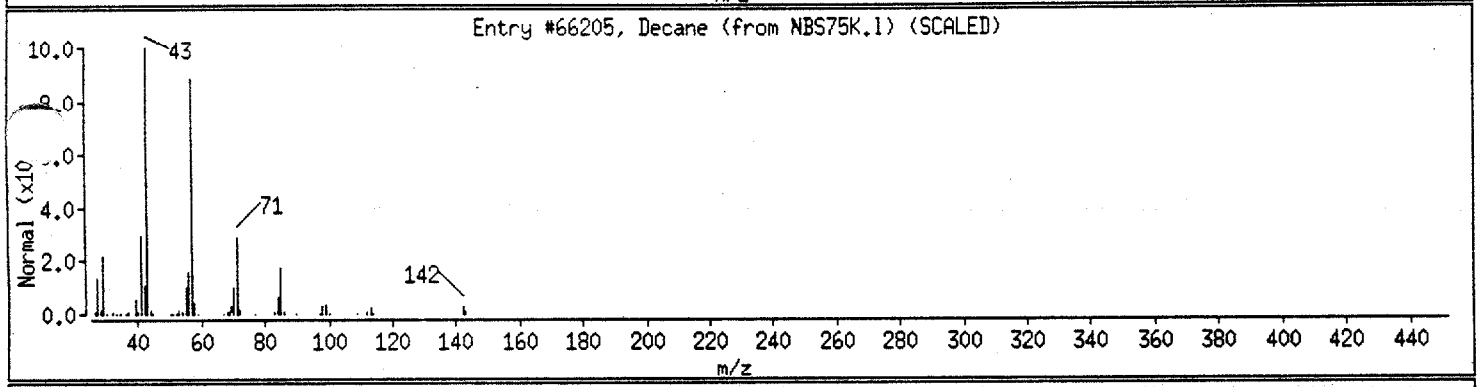


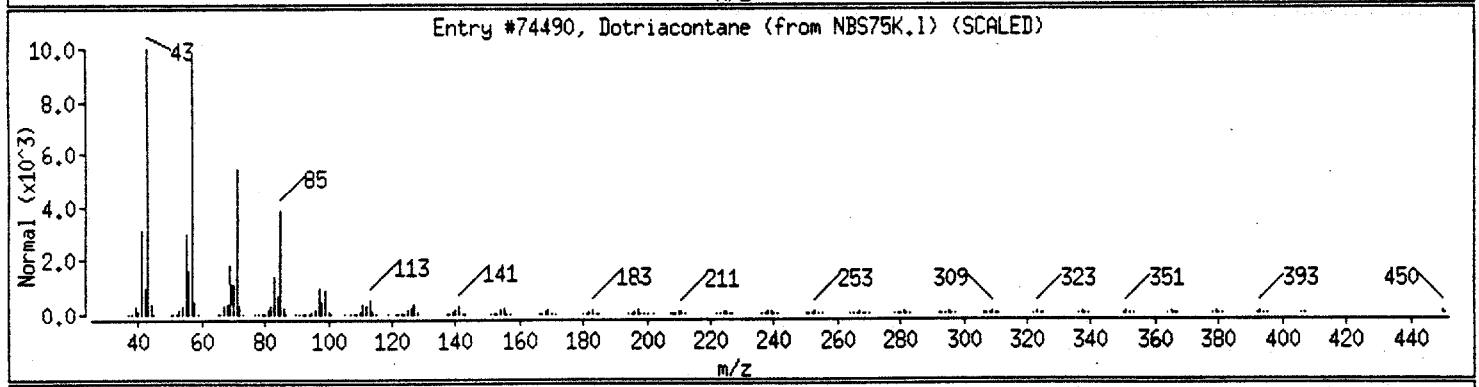
Data File: /chem/aux/msb.i/b062894.b/b4165.d

Date : 28-JUN-94 15:37
Instrument : msb.i
Sample ID :
Column phase : J&W DB_624
Column diameter : 0.53
Volume Injected (uL) : 0.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Decane	124-18-5	NBS75K.l	66205	95
Dotriacontane	544-85-4	NBS75K.l	74490	90

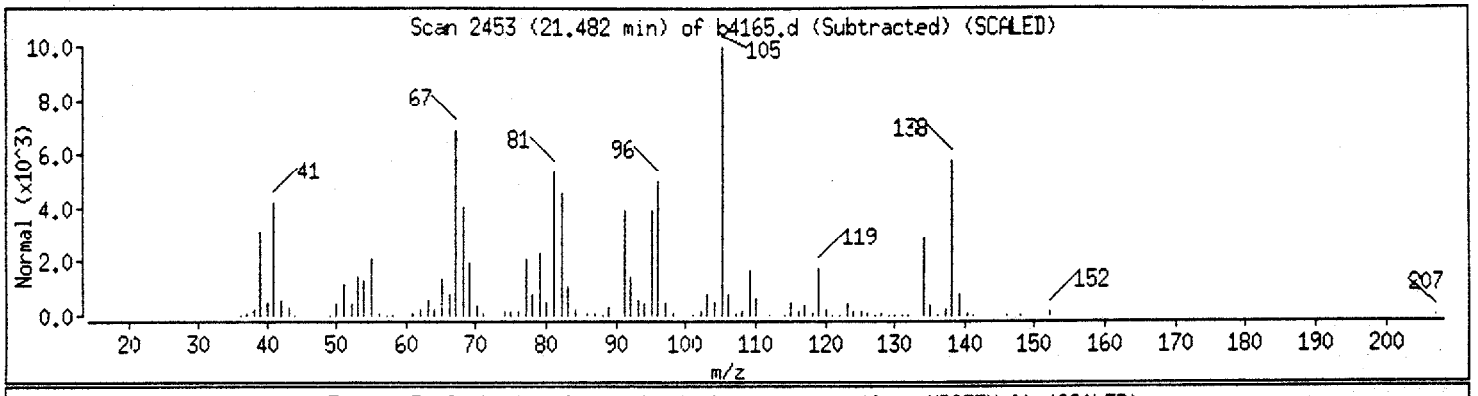


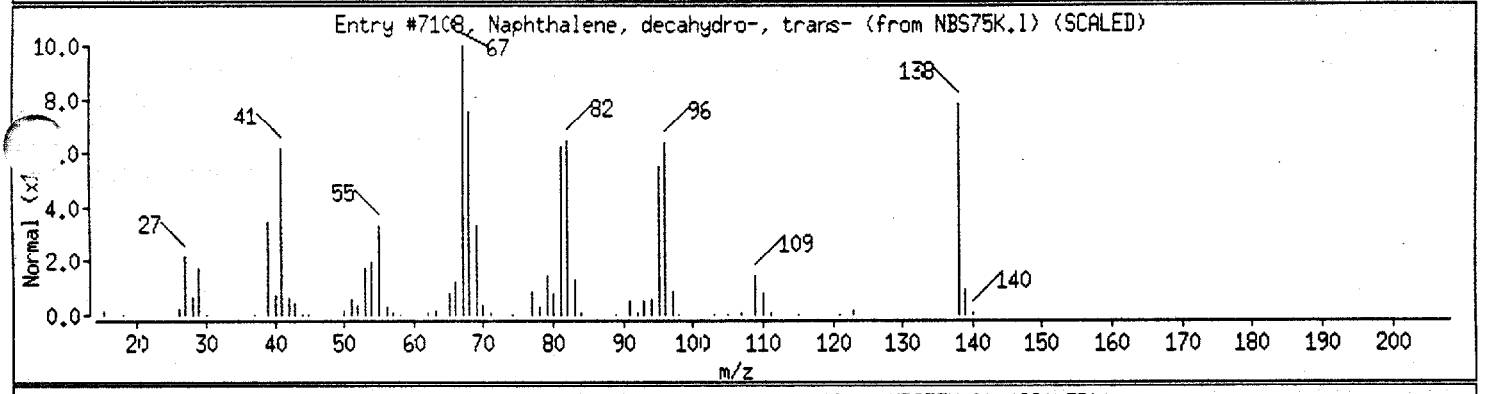


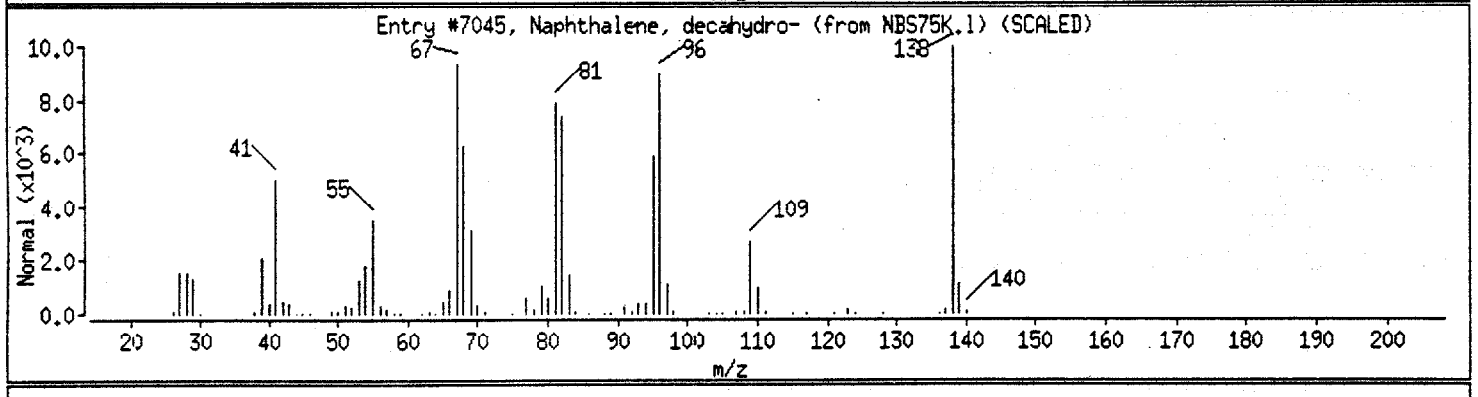


Data File: /chem/aux/msb.i/b062894.b/b4165.d
Date : 28-JUN-94 15:37
Instrument : msb.i
Sample ID :
Column phase : J&W DB_624
Column diameter : 0.53
Volume Injected (uL) : 0.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Naphthalene, decahydro-, trans-	493-02-7	NBS75K.1	7108	98
Naphthalene, decahydro-	91-17-8	NBS75K.1	7045	95

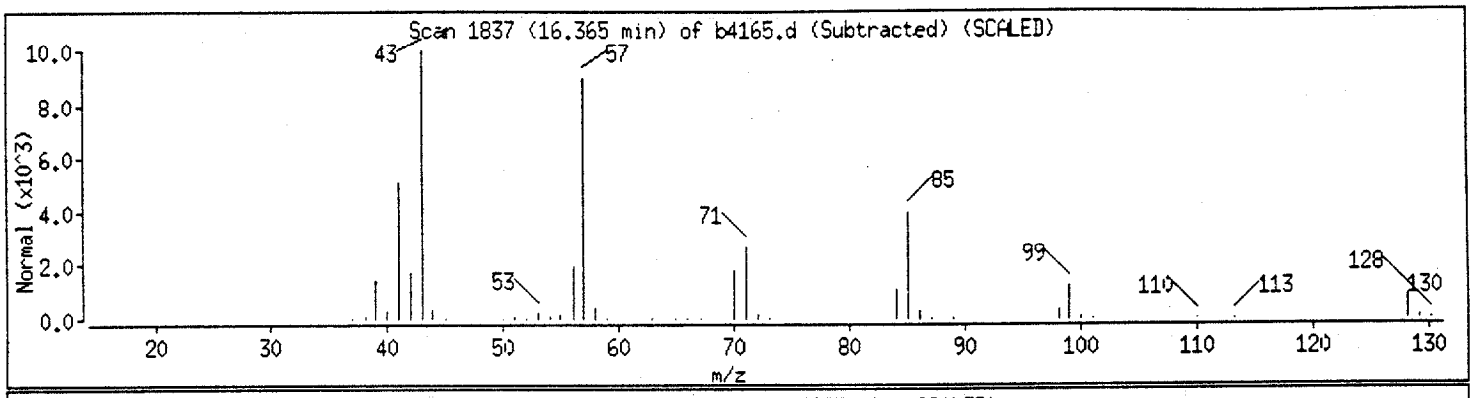


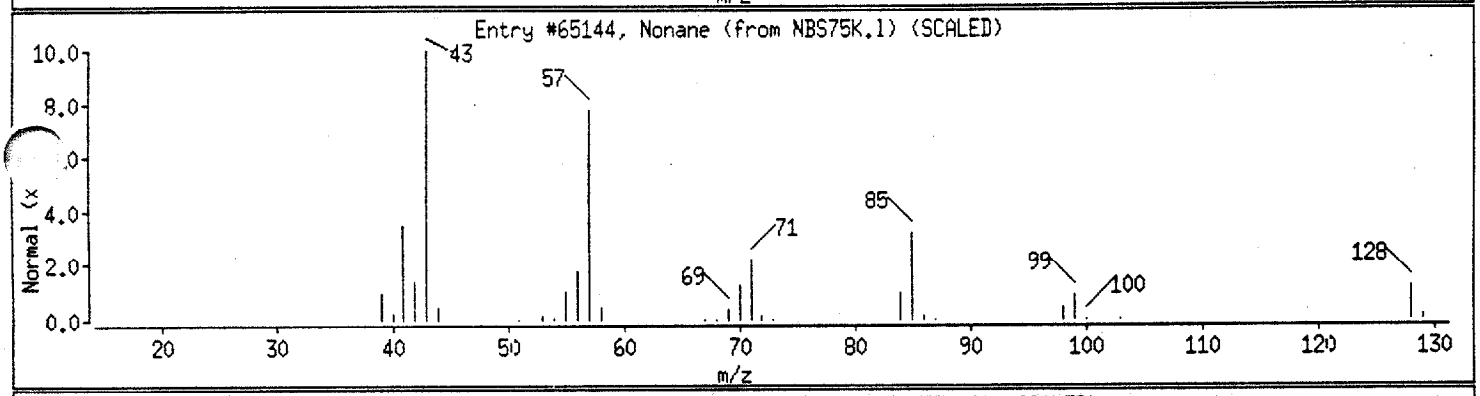


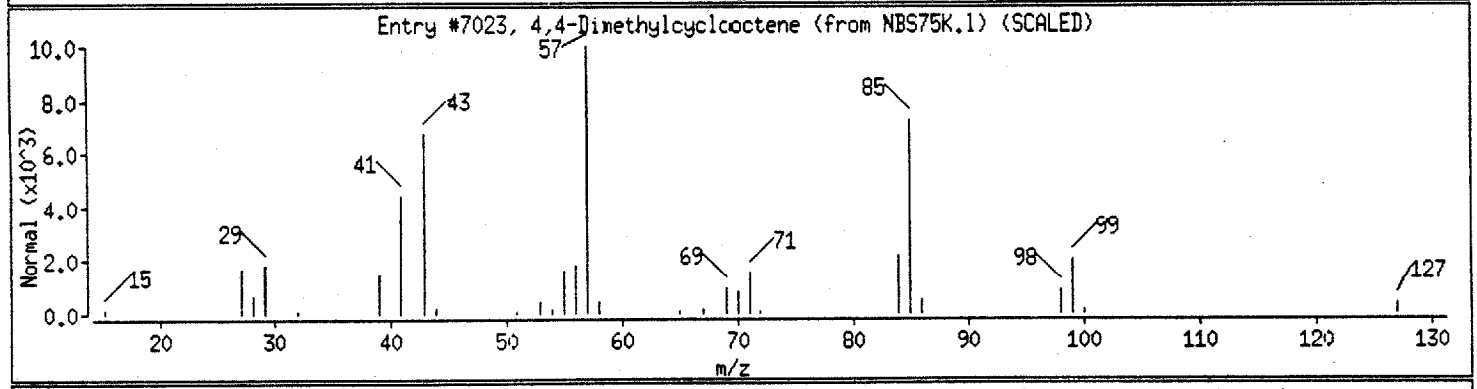


Data File: /chem/aux/msb.i/b062894.b/b4165.d
Date : 28-JUN-94 15:37
Instrument : msb.i
Sample ID :
Column phase : J&W DB_624
Column diameter : 0.53
Volume Injected (uL) : 0.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Nonane	111-84-2	NBS75K.1	65144	94
4,4-Dimethylcyclooctene	0-00-0	NBS75K.1	7023	72

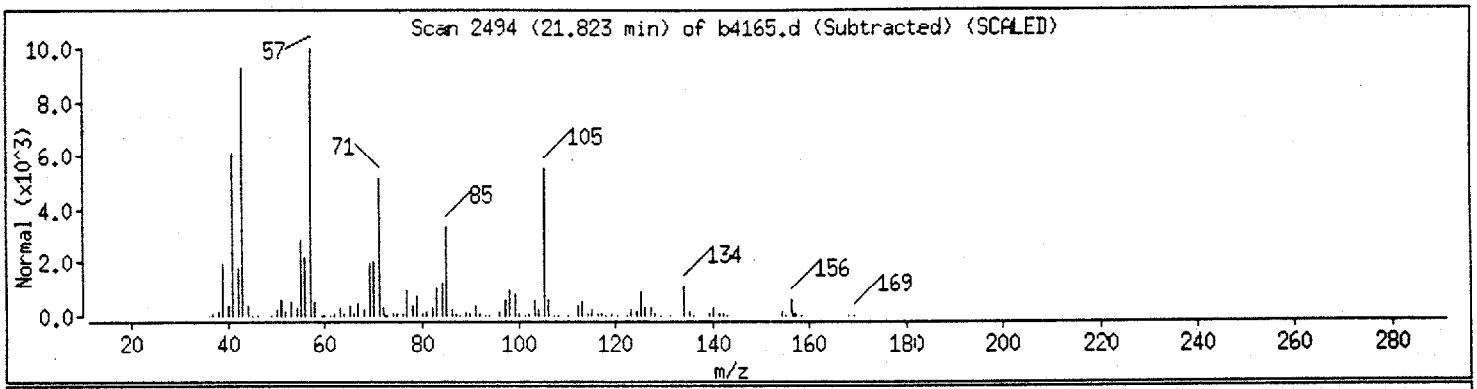


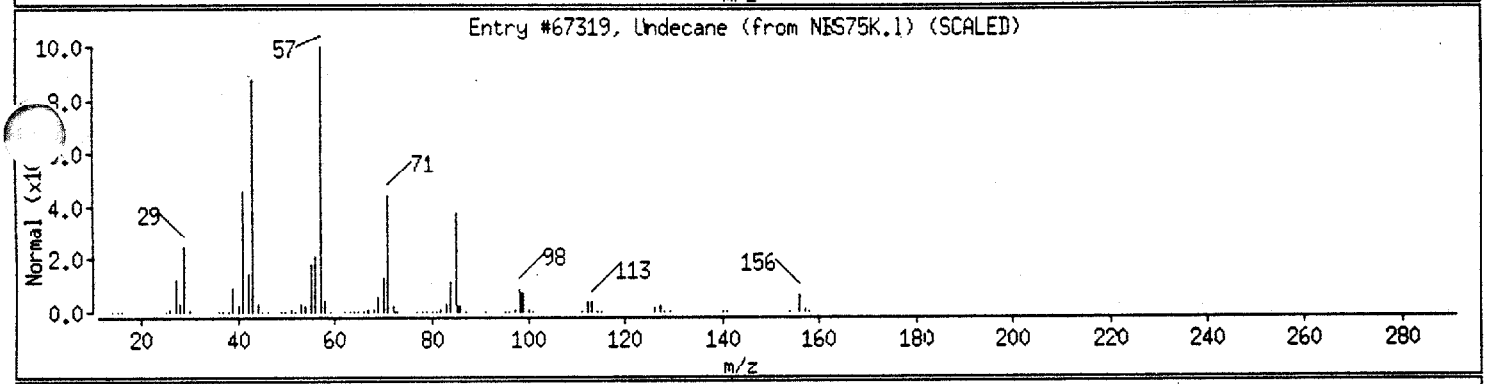


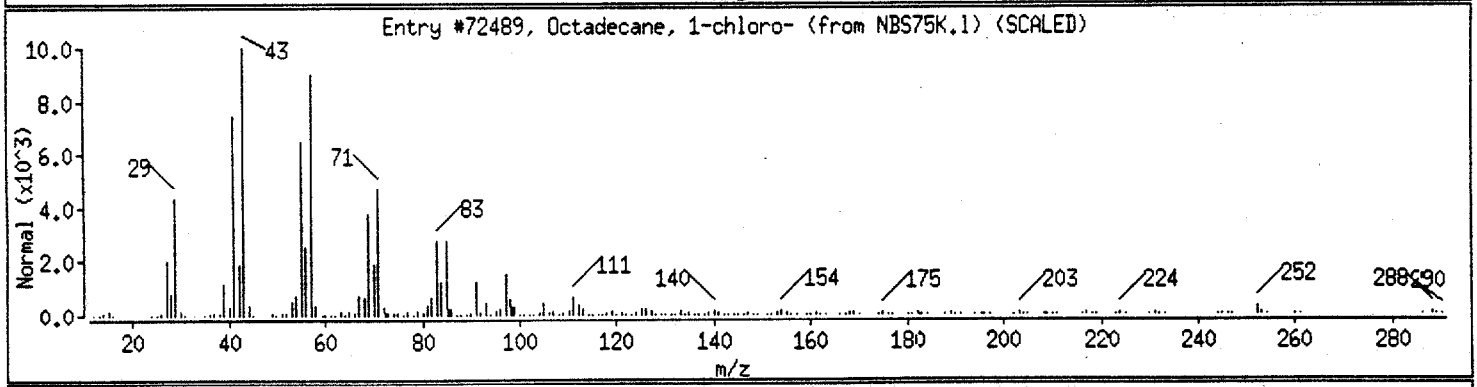


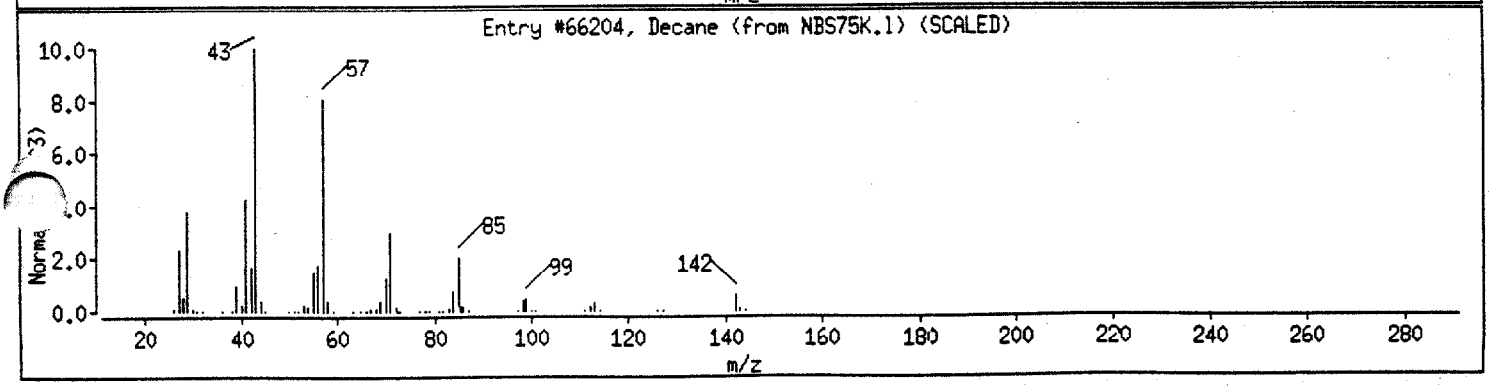
Data File: /chem/aux/msb.i/b062894.b/b4165.d
Date : 28-JUN-94 15:37
Instrument : msb.i
Sample ID :
Column phase : J&W DB_624
Column diameter : 0.53
Volume Injected (uL) : 0.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Undecane	1120-21-4	NBS75K.1	67319	94
Octadecane, 1-chloro-	3386-33-2	NBS75K.1	72489	80
Decane	124-18-5	NBS75K.1	66204	80





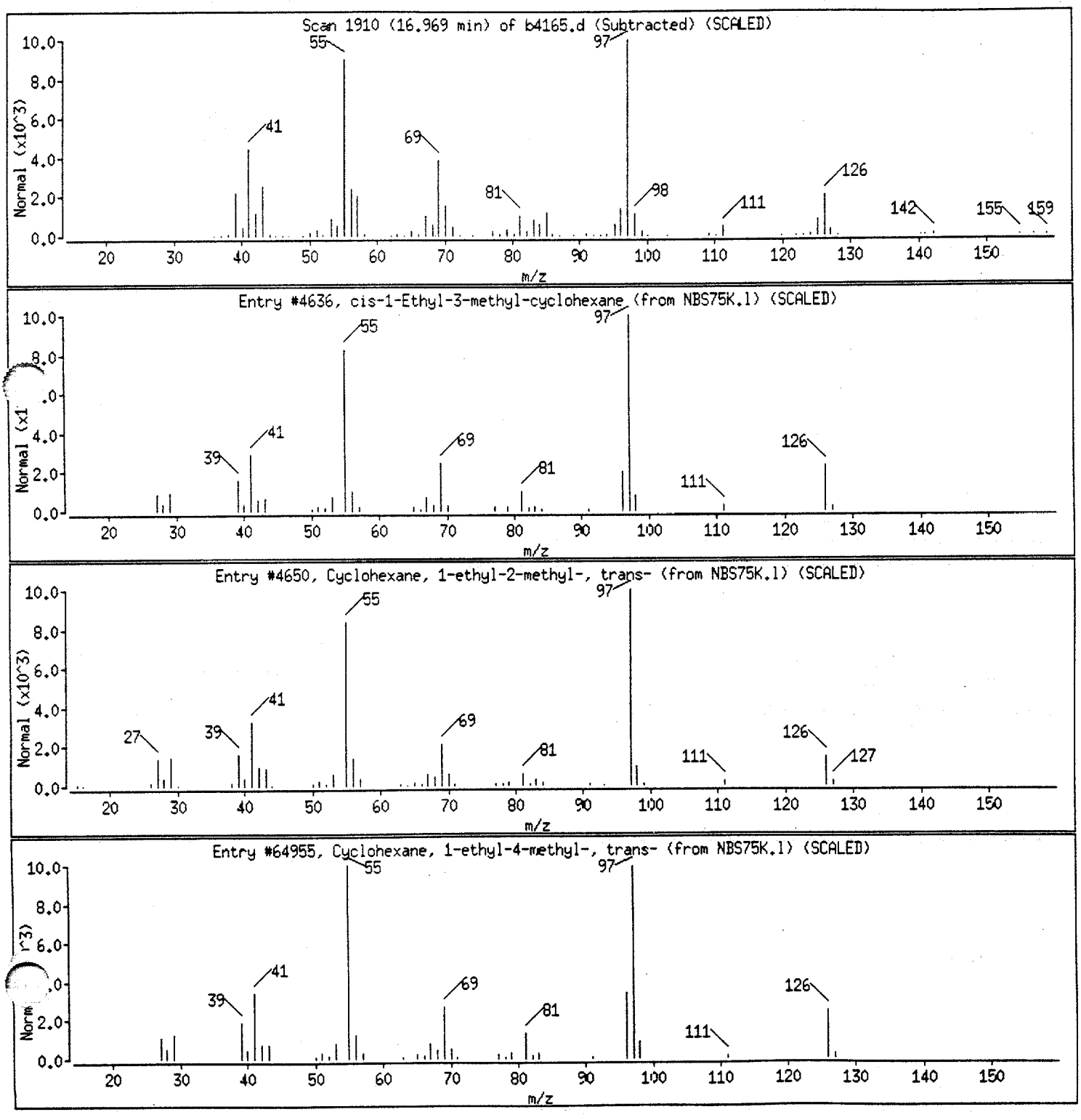




Data File: /chem/aux/msb.i/b062894.b/b4165.d

Date : 28-JUN-94 15:37
Instrument : msb.i
Sample ID :
Column phase : J&W DB_624 Column diameter : 0.53
Volume Injected (uL) : 0.0

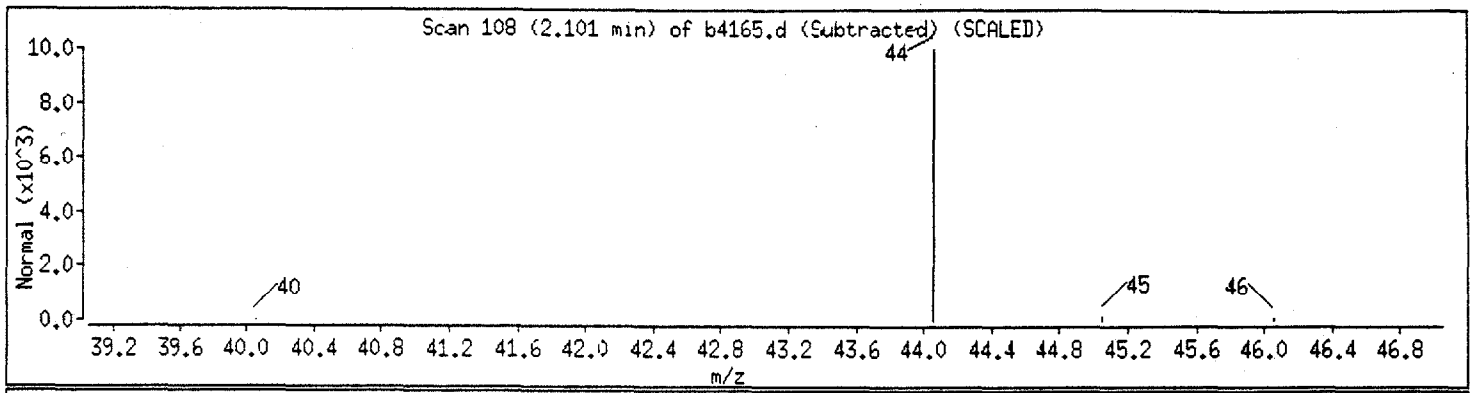
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
cis-1-Ethyl-3-methyl-cyclohexane	19489-10-2	NBS75K.1	4636	68
Cyclohexane, 1-ethyl-2-methyl-, trans-	4923-78-8	NBS75K.1	4650	68
Cyclohexane, 1-ethyl-4-methyl-, trans-	6236-88-0	NBS75K.1	64955	68



Data File: /chem/aux/msb.i/b062894.b/b4165.d

Date : 28-JUN-94 15:37
Instrument : msb.i
Sample ID :
Column phase : J&W DB_624 Column diameter : 0.53
Volume Injected (uL) : 0.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
UNKNOWN				



1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. CWC20

Lab Name: ASC Contract: NERSA

Lab Code: — Case No.: — SAS No.: — SDG No.: CWW17

Matrix: (soil/water) soil Lab Sample ID: JM9437

Sample wt/vol: 0.50 (g/mL) g Lab File ID: C8181

Level: (low/med) low Date Received: 062394

% Moisture: not dec. 40 % Date Analyzed: 062894

GC Column: DB-624 ID: .53 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 5000 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3	Chloromethane	125	U
74-83-9	Bromomethane	125	U
75-01-4	Vinyl Chloride	125	U
75-00-3	Chloroethane	125	U
75-09-2	Methylene Chloride	79.2	BJ
67-64-1	Acetone	1340	B
75-15-0	Carbon Disulfide	125	U
75-35-4	1,1-Dichloroethene		
75-34-3	1,1-Dichloroethane		
540-59-0	1,2-Dichloroethene (total)		
67-66-3	Chloroform	654	
107-06-2	1,2-Dichloroethane	125	U
78-93-3	2-Butanone		
71-55-6	1,1,1-Trichloroethane		
56-23-5	Carbon Tetrachloride	216	
75-27-4	Bromodichloromethane	125	U
78-87-5	1,2-Dichloropropane		
10061-01-5	cis-1,3-Dichloropropene		
79-01-6	Trichloroethene		
124-48-1	Dibromochloromethane		
79-00-5	1,1,2-Trichloroethane		
71-43-2	Benzene		
10061-02-6	trans-1,3-Dichloropropene		
75-25-2	Bromoform		
108-10-1	4-Methyl-2-Pentanone		
591-78-6	2-Hexanone		
127-18-4	Tetrachloroethene	67.0	J
79-34-5	1,1,2,2-Tetrachloroethane	125	U
108-88-3	Toluene	64.5	J
108-90-7	Chlorobenzene	198	
100-41-4	Ethylbenzene	58.5	J
100-42-5	Styrene	125	U
1330-20-7	Xylene (total)	228	

EPA SAMPLE NO.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ASC Contract: NEESA Cluo2C

Lab Code: — Case No.: — SAS No.: — SDG No.: Cluo17

Matrix: (soil/water) Soil Lab Sample ID: JN9437

Sample wt/vol: 20 (g/mL) g Lab File ID: C0818!

Level: (low/med) low Date Received: 062394

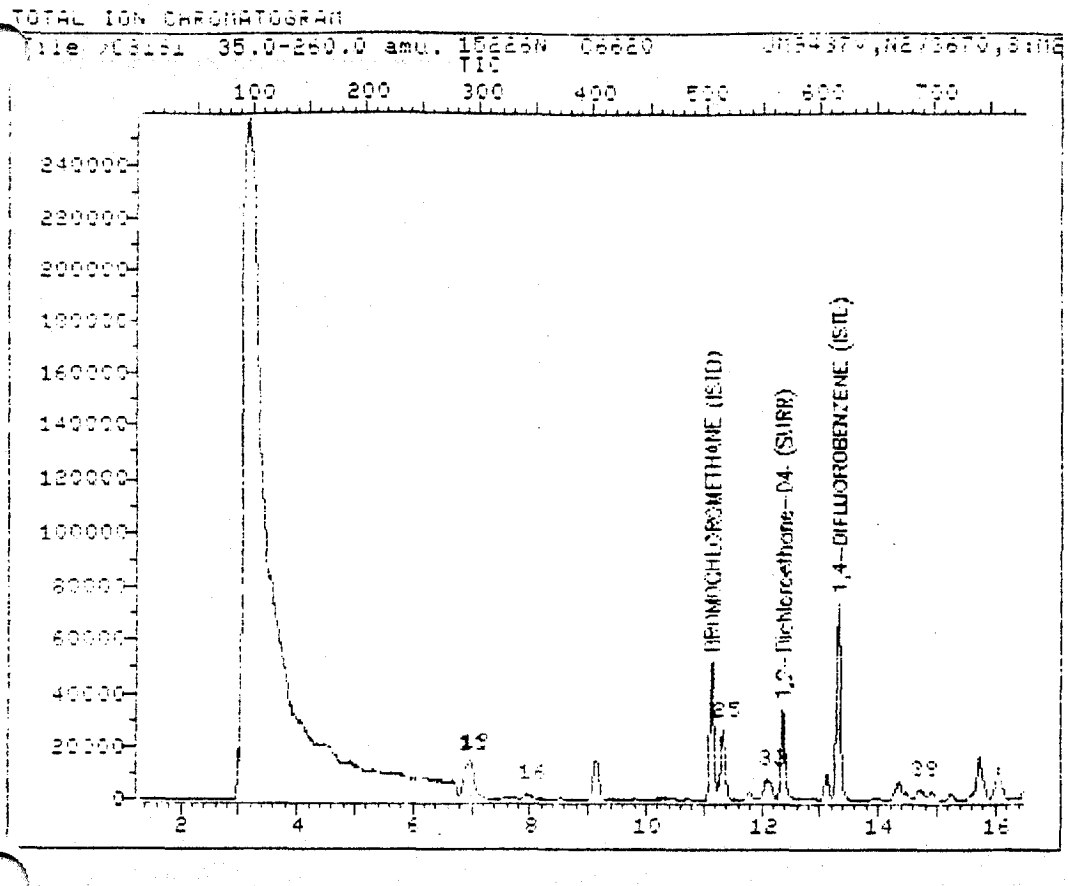
% Moisture: not dec. ~~AA~~ 40 Date Analyzed: 062894

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 5000 (uL)

Number TICs found: 10 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	111842	~~D8 Decane~~ Nonane	20.55	~~1210~~ 1210	J
2.	111659	Octane	17.04	~~616~~ 616	J
3.	124185	Decane	23.35	~~751~~ 751	J
4.	76131	1,2-Trichloro 1,2,2-Trifluoroethane	6.98	~~799~~ 799	J
5.		Unknown hydrocarbon	19.40	~~481~~ 481	J
6.	95636	1,2,4-Trimethyl benzene	24.09	~~470~~ 470	J
7.	1120214	Undecane	25.69	~~410~~ 410	J
8.	592278	2-methylheptane	15.74	~~370~~ 370	J
9.	6410278	pentachloro-1-propene	26.41	~~371~~ 371	J
10.	611143	Ethyl 2-methyl benzene	~~3.30~~ 23.15	~~330~~ 330	J
11.					
12.					
13.		1,1,2-Trifluorotrichloroethane	6.94	384	X
14.		1,4-Dioxane	14.70	8889	X
15.		1,3,5-Trimethylbenzene	23.33	125	X
16.		1,2,4-Trimethylbenzene	24.09	417	X
17.		1,3-Dichlorobenzene	24.83	72.2	X
18.		1,2,4-Trichlorobenzene	28.50	179	X
19.		Naphthalene	29.03	69.7	X
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

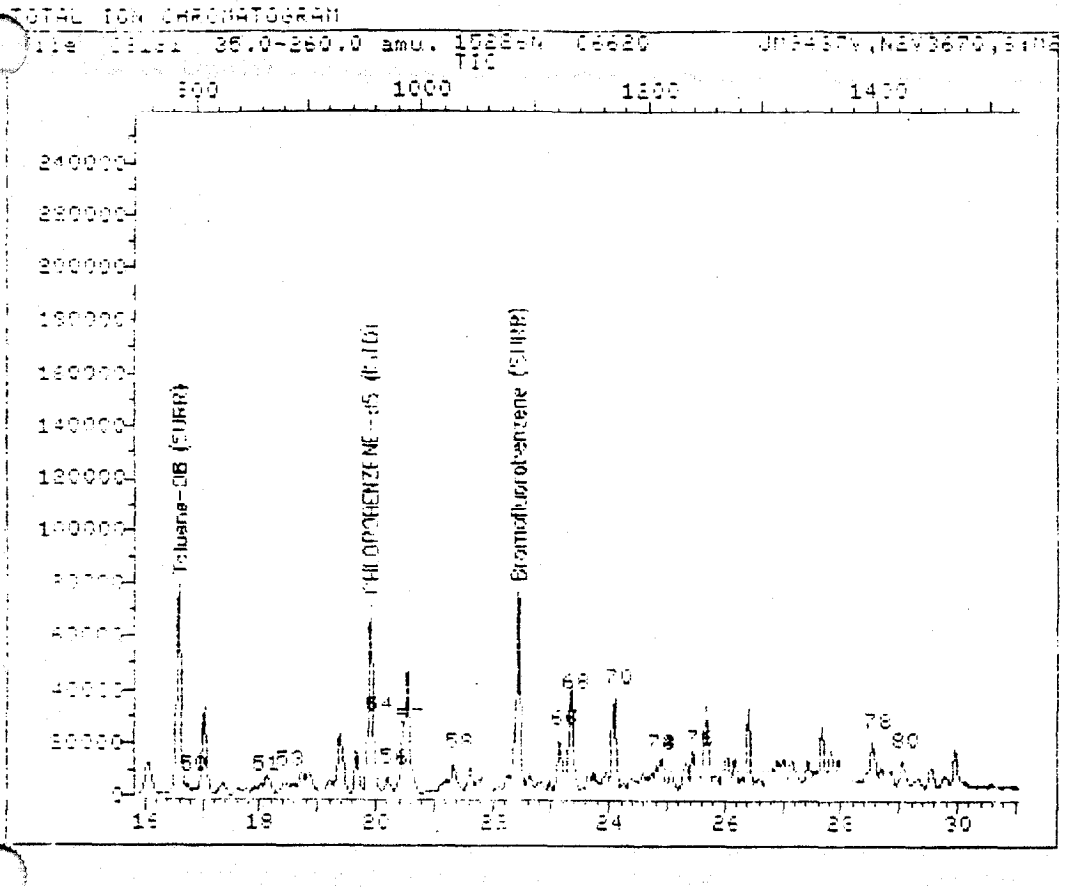


C6620

Data File: >C8181::DF Quant Output File: ^C8181::QT
Name: 15226N C6620
Misc: JM9437U,NQ03670,S:M2,0.50,5:1,

Id File: IC628A::04
Title: MSD-C DB624 0.53mmX75m VOLATILE GC/MS
Last Calibration: 940628 12:19

Operator ID: USERTSC
Quant Time: 940628 15:16
Injected at: 940628 14:25



C6620

Data File: ^C9181::D5 Quant Output File: ^C8181::QT
Name: ^5224N C6620
Misc: JM9437V,N2V3670,5:MS,0.50,5:1,

Id File: IC62PA::D4
Title: MSD-C DB624 0.53mmX75m VOLATILE GC/MS
Last Calibration: 940408 12:19

Operator ID: USERTSC
Quant Time: 940608 15:16
Injected at: 940608 14:26

QUANT REPORT

Page 1

Operator ID: USERTSC   Quant Rev: 7   Quant Time: 940628 15:14
Output File: ^C8191::QT   Injected at: 940628 14:25
Data File: ^C8191::DF   Dilution Factor: 1.00000
Name: 1502AN D-420
Misc: JM8477W,NOV7670,5:M2,0.50,5:1,

Dry wt. RO

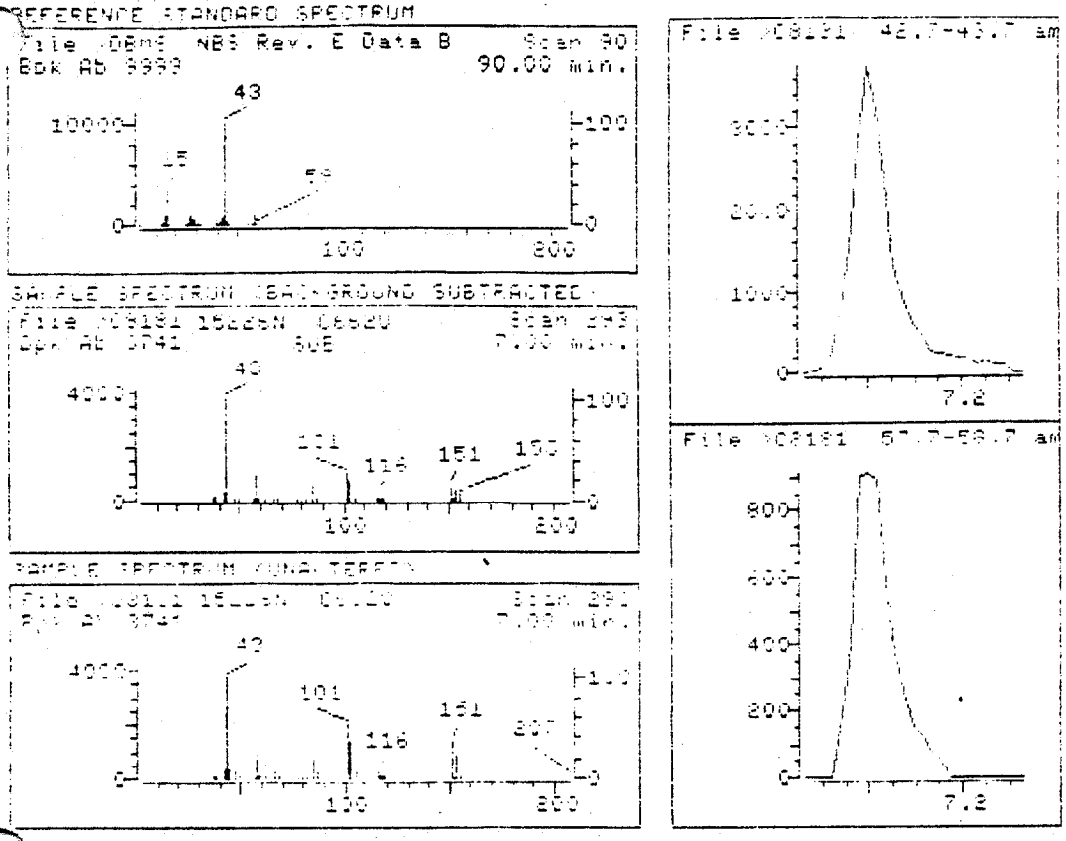
ID File: IC628A::D4
Title: MSD-C DB624 0.53mmX75m VOLATILE GC/MS
Last Calibration: 940628 10:19

7-5-94

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE (ISTD)	11.13	128.0	39317	50.00	ug/l	83
11)	1,1,2-Trichlorotrifluoroethane	6.94	101.0	32492	15.38	ug/l	86
17)	Acetone	7.00	43.0	22790	53.61	ug/l	89
16)	Methylene chloride	7.95	84.0	3444	3.17	ug/l	89
25)	Chloroform	11.33	83.0	55919	24.17	ug/l	94
24)	1,2-Dichloroethane-D4 (SURR)	12.76	65.0	64479	58.01	ug/l	95
29)	*1,4-DIFLUOROBENZENE (ISTD)	13.32	114.0	178192	50.00	ug/l	94
33)	Carbon tetrachloride	12.09	117.0	13906	8.66	ug/l	93
38)	1,4-Dioxane	14.70	88.0	13329	355.63	ug/l	94
48)	*CHLOROBENZENE-d5 (ISTD)	19.91	117.0	107449	50.00	ug/l	92
49)	Toluene-D8 (SURR)	16.59	98.0	138260	58.75	ug/l	87
[illegible])	Toluene	16.75	92.0	4488	2.58	ug/l	94
[illegible])	Tetrachloroethylene	18.02	164.0	2882	2.68	ug/l	90
53)	2-Hexanone	18.45	43.0	4781	~~3.97~~ ND	~~ug/l~~	56
54)	Chlorobenzene	19.97	112.0	17346	2.90	ug/l	90
56)	Ethylbenzene	20.22	106.0	2435	2.34	ug/l	97
57)	m+p-Xylenes	20.48	106.0	12287	9.10	ug/l	90
58)	o-Xylene	21.34	106.0	5472	4.26	ug/l	91
60)	Bromofluorobenzene (SURR)	22.43	95.0	61645	42.67	ug/l	79
66)	o-Chlorotoluene	23.15	126.0	2480	2.73	ug/l	94
67)	p-Chlorotoluene	23.15	126.0	2480	ND ~~2.57~~	~~ug/l~~	94
69)	1,3,5-Trimethylbenzene	23.33	105.0	15131	4.99	ug/l	95
70)	1,2,4-Trimethylbenzene	24.09	105.0	48679	16.72	ug/l	82
73)	1,3-Dichlorobenzene	24.83	146.0	6046	2.89	ug/l	97
74)	1,4-Dichlorobenzene	24.83	146.0	6046	ND ~~2.59~~	~~ug/l~~	97
76)	n-Butylbenzene	25.47	91.0	8388	~~2.36~~	~~ug/l~~	53
78)	1,2,4-Trichlorobenzene	28.56	180.0	12926	7.17	ug/l	92
80)	Naphthalene	29.03	128.0	10670	2.79	ug/l	89

* Compound is ISTD

~~* Report Only~~ 7-5-94



Data File: >C0181::DF Quant Output File: ^C0181::QT
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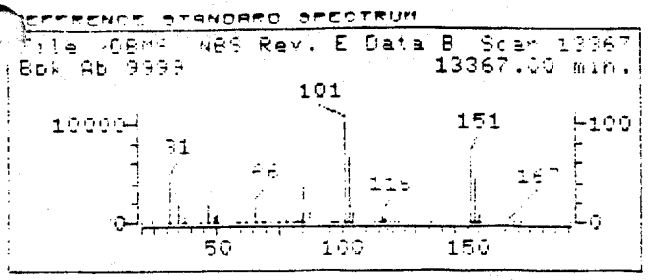
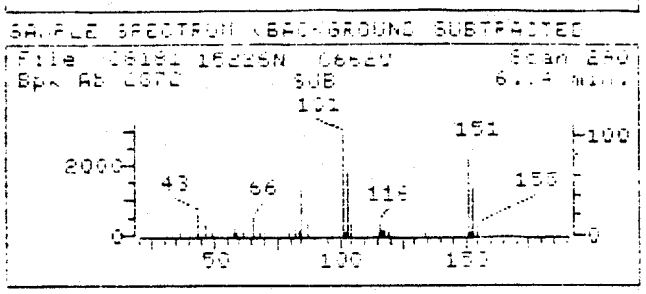
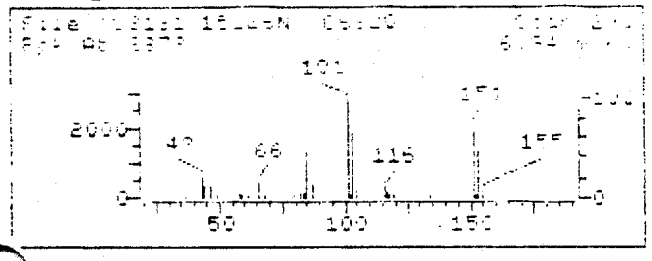
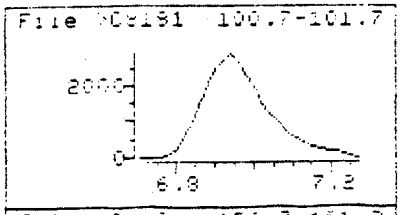
Misc: JM9437U,N0U3670,S:M2,0.50,5:1,
Quant Time: 940628 15:16 Quant ID File: IC628A::D4
Injected at: 940628 14:25 Last Calibration: 940628 12:19

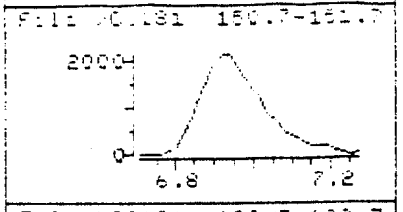
Compound No: 17
Compound Name: Acetone
Scan Number: 293
Retention Time: 7.00 min.
Quant Ion: 43.0
Area: 22790
Concentration: 53.61 ug/l
q-value: 80

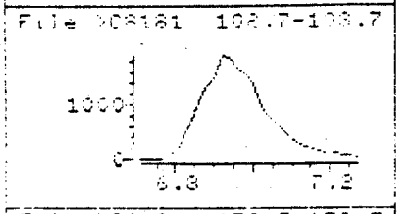


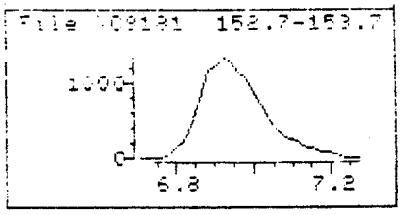






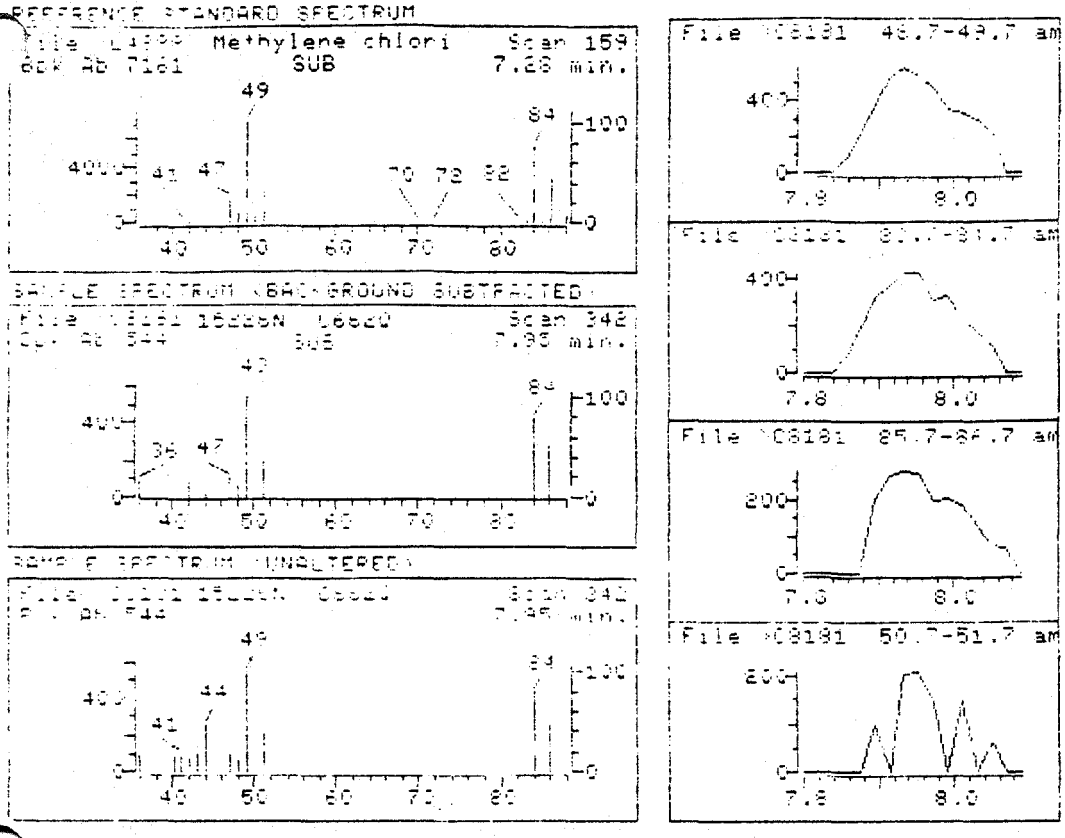






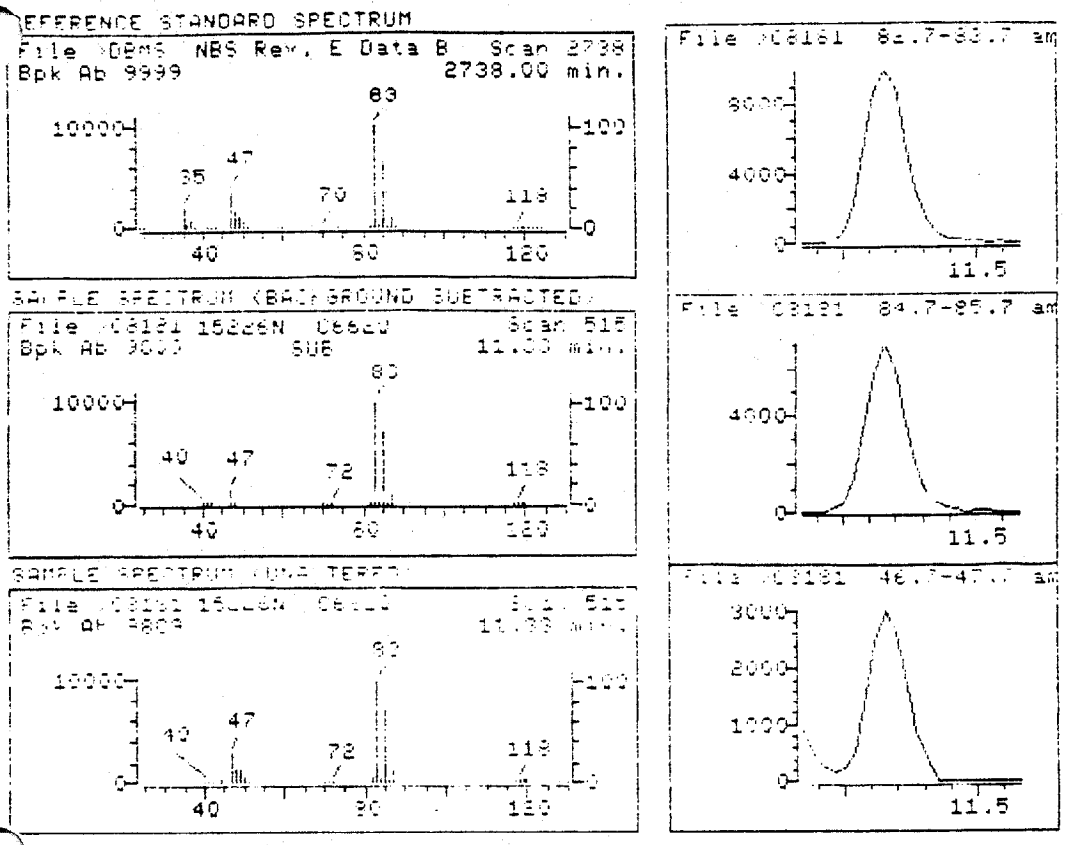
Data File: >C8181::DF Quant Output File: ^C8181::QT
Name: 1522AN C6600
Misc: JM9437U,N2U3670.S:U2,0.50,S:1,
Quant Time: 940628 15:16 Quant ID File: IC628A::D4
Injected at: 940628 14:25 Last Calibration: 940628 12:19

Compound No: 11
Compound Name: 1,1,2-Trichlorotrifluoroethane
Scan Number: 290
Retention Time: 6.94 min.
Quant Ion: 101.0
Area: 32492
Concentration: 15.78 ug/l
q-value: 86



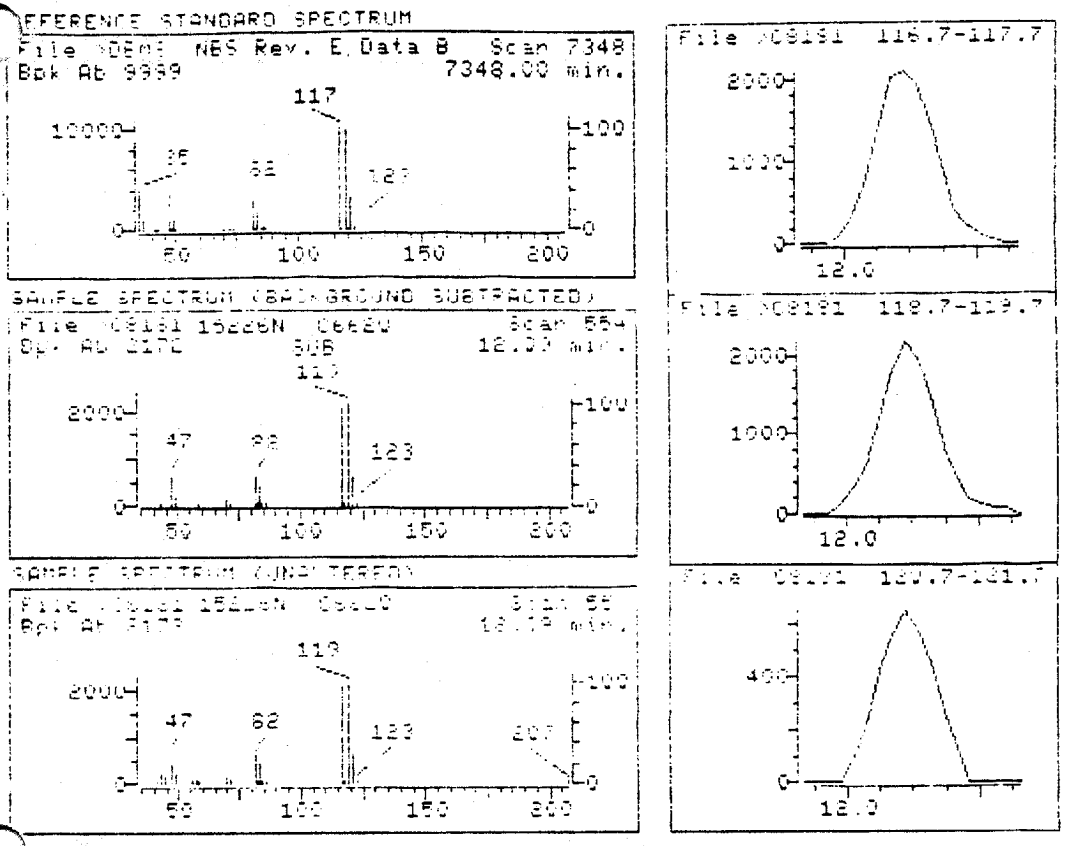
Data File: >C8181::DF Quant Output File: ^C8181::QT
Name: 15226N C6620
Misc: JM9437U,N2U3670,S:MD,0.50,5:1,
Quant Time: 940628 15:16 Quant ID File: IC628A::D4
Injected at: 940628 14:29 Last Calibration: 940628 12:19

Compound No: 16
Compound Name: Methylene chloride
Scan Number: 342
Retention Time: 7.95 min.
Quant Ion: 84.0
Area: 3444
Concentration: 3.17 ug/l
q-value: 89



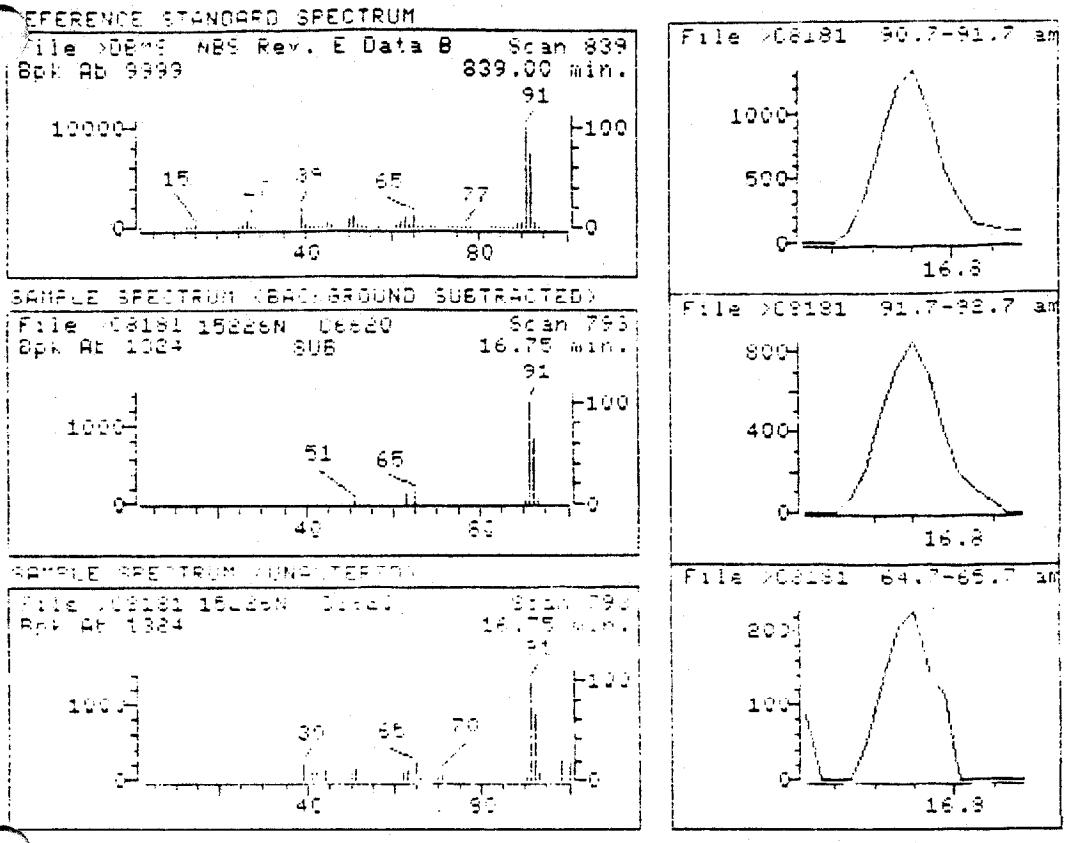
Data File: >C8181::DF Quant Output File: ^C8181::QT
Name: 15226N C6620
Misc: JM9437U,N2U3670,S:M2,0.50,5:1,
Quant Time: 940628 15:16 Quant ID File: IC628A::D4
Injected at: 940628 14:25 Last Calibration: 940628 12:19

Compound No: 25
Compound Name: Chloroform
Scan Number: 515
Retention Time: 11.33 min.
Quant Ion: 83.0
Area: 55919
Concentration: 26.17 ug/l
q-value: 96



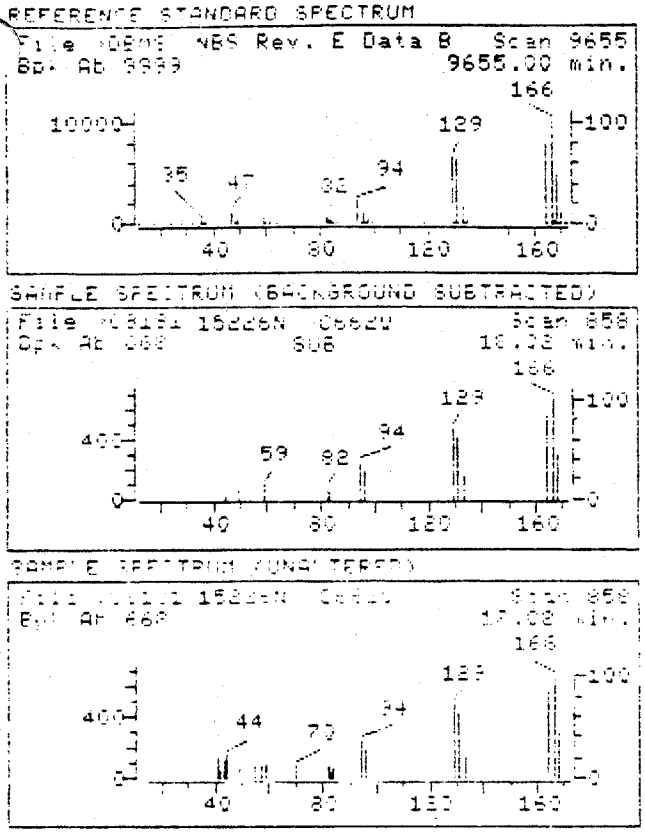
Data File: >C8181::DF Quant Output File: >C8181::QT
Name: 15226N C6620
Misc: JM943TU,N2U3670,S:M2,0.50,5:1,
Quant Time: 940628 15:16 Quant ID File: IC628A::D4
Injected at: 940628 14:25 Last Calibration: 940628 12:19

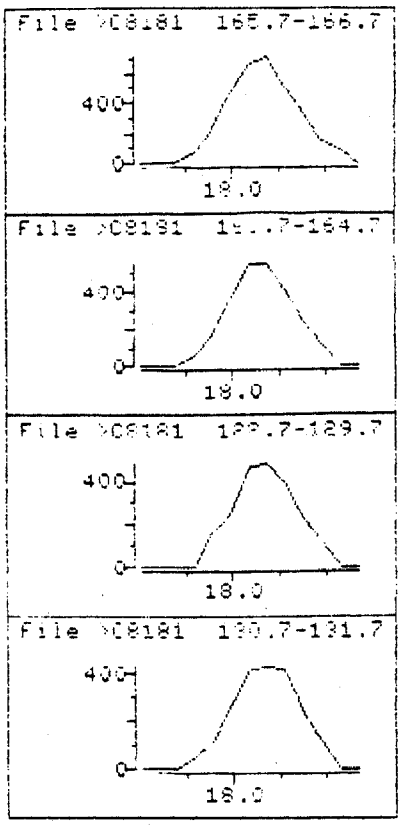
Compound No: 33
Compound Name: Carbon tetrachloride
Scan Number: 554
Retention Time: 12.09 min.
Quant Ion: 117.0
Area: 13906
Concentration: 8.66 ug/l
q-value: 93



Data File: >C8181::05 Quant Output File: ^C8181::QT
Name: 15226N C6620
Misc: JM9437U,N2U3670,S:M2,0.50,5:1,
Quant Time: 940628 15:16 Quant ID File: IC628A::04
Injected at: 940628 14:25 Last Calibration: 940628 12:19

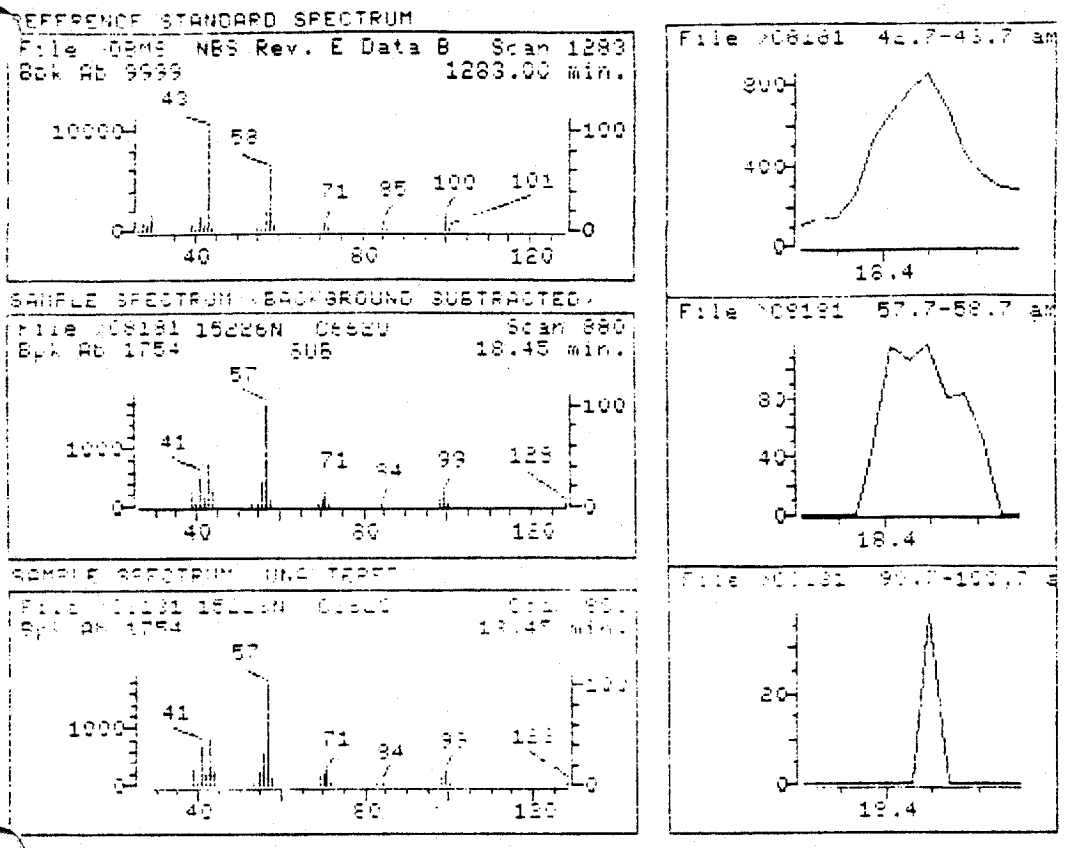
Compound No: 50
Compound Name: Toluene
Scan Number: 793
Retention Time: 16.75 min.
Quant Ion: 92.0
Area: 4288
Concentration: 2.58 ug/l
q-value: 94





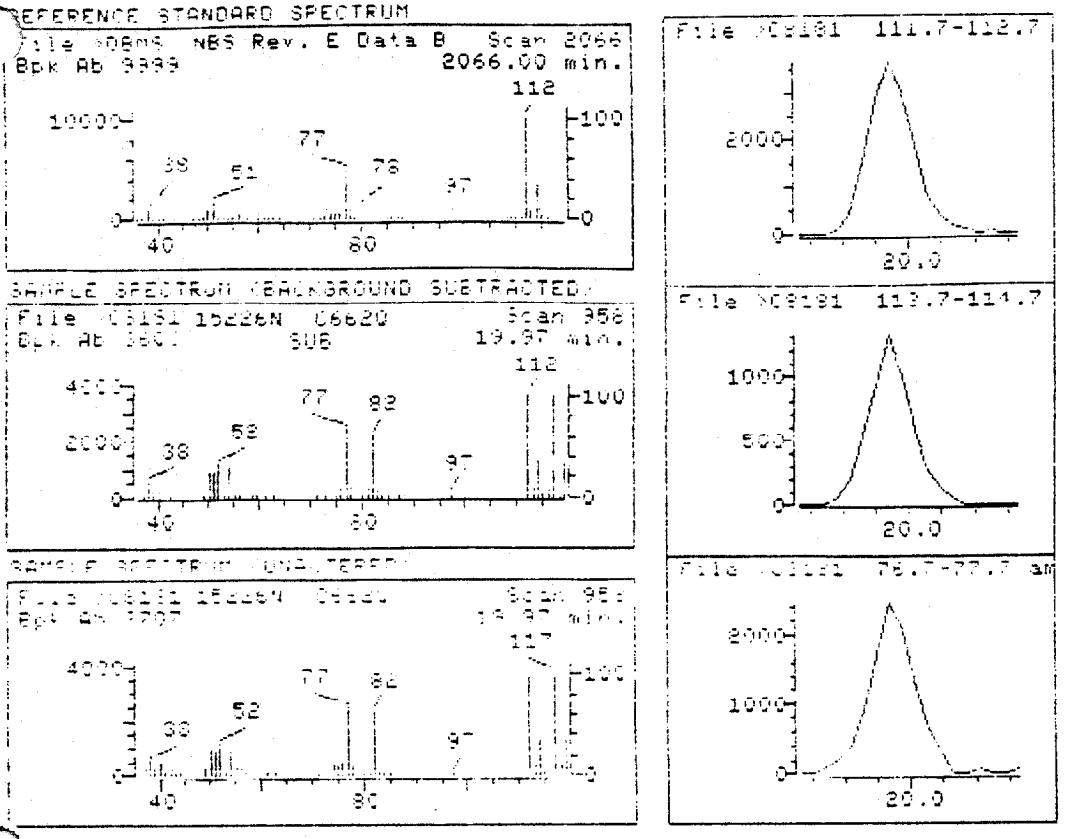
Data File: >C8181::DF Quant Output File: ^C8181::QT
Name: 1522*N C6620
Misc: JM9437U,N2U76?0,S:M2,0.50,5:1,
Quant Time: 940*?8 15:16 Quant ID File: IC628A::D4
Injected at: 940*28 14:25 Last Calibration: 940628 12:19

Compound No: F1
Compound Name: Tetrachloroethylene
Scan Number: 858
Retention Time: 18.02 min.
Quant Ion: 164.0
Area: 2892
Concentration: 2.48 ug/l
q-value: 90



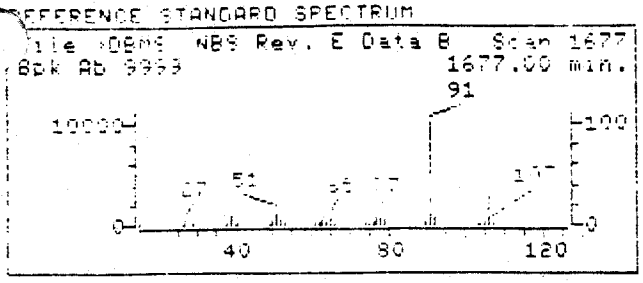
Data File: >C9181::D5 Quant Output File: ^C8181::QT
Name: 15226N C6600
Misc: JM9437U,N2:3470,S:M2,0.50,5:1,
Quant Time: 940628 15:16 Quant ID File: IC628A::D4
Injected at: 940628 14:25 Last Calibration: 940628 12:19

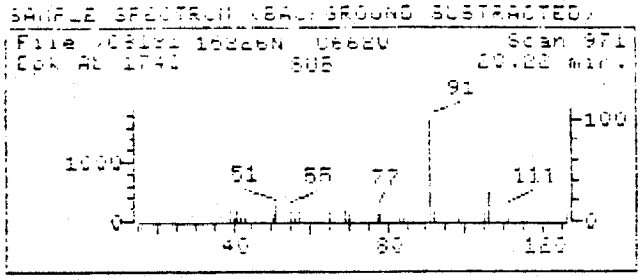
Compound No: 53
Compound Name: 2-Hexanone
Scan Number: 880
Retention Time: 18.45 min.
Quant Ion: 43.0
Area: 4781
Concentration: 3.97 ug/l
q-value: 56

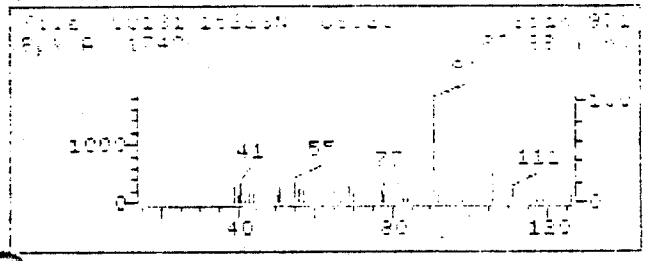


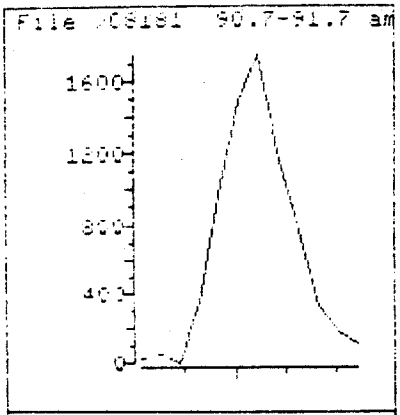
Data File: >C9181::DF Quant Output File: ^C9181::QT
Name: 15226N C6620
Misc: JM9437U,N2U3670,S:M2,0.50,5:1,
Quant Time: 940628 15:16 Quant ID File: IC628A::D4
Injected at: 940628 14:25 Last Calibration: 940628 12:19

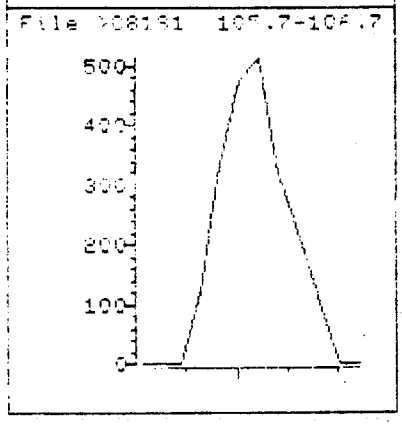
Compound No: 54
Compound Name: Chlorobenzene
Scan Number: 958
Retention Time: 19.97 min.
Quant Ion: 112.0
Area: 17346
Concentration: 7.90 ug/l
q-value: 90





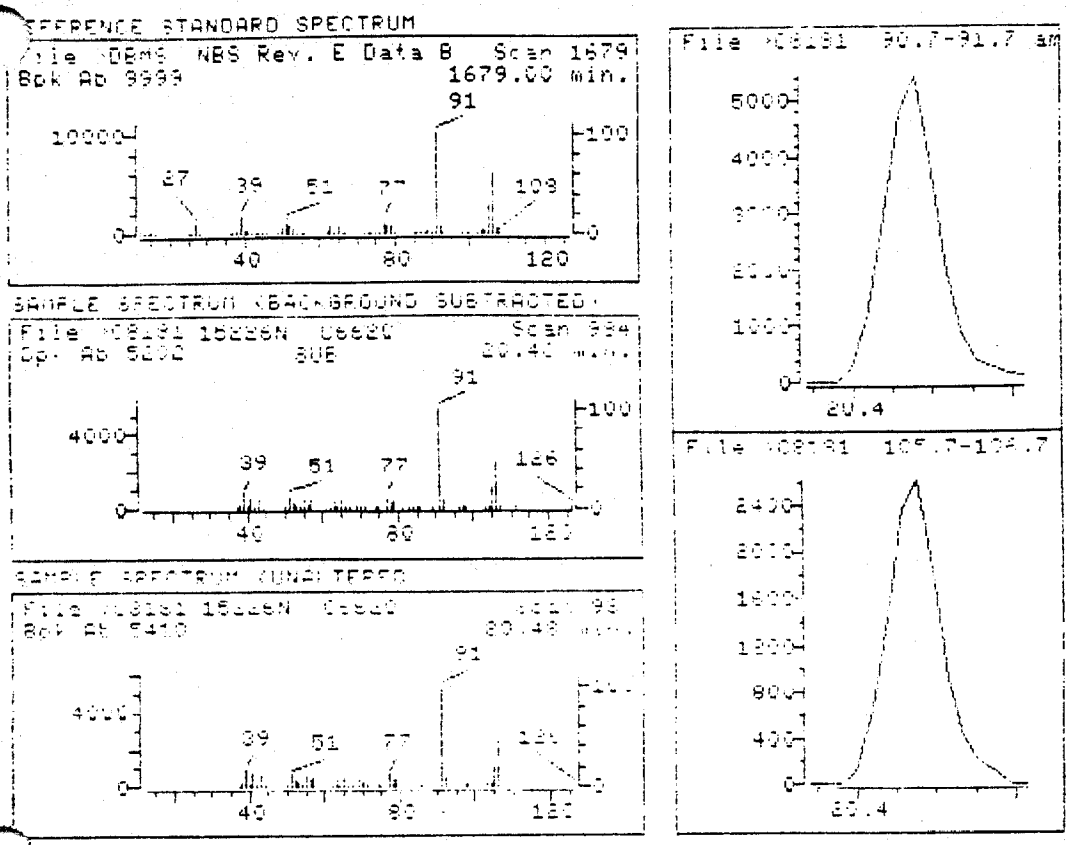






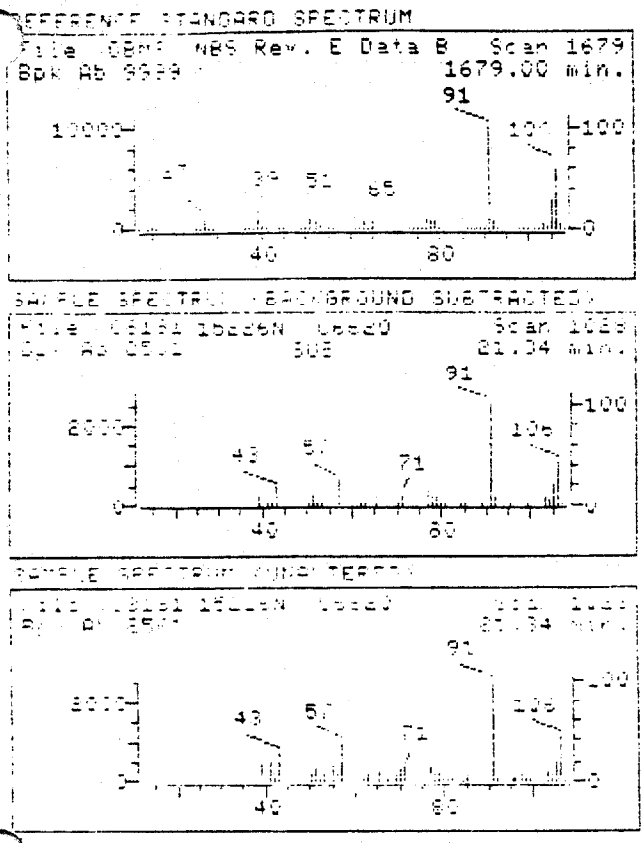
Data File: ^C8181::D5 Quant Output File: ^C8181::QT
Name: 150264 Cs620
Misc: JM9437U,N2U36T0,5:M2,0.50,5:1,
Quant Time: 940628 15:16 Quant ID File: IC628A::D4
Injected at: 940628 14:25 Last Calibration: 940628 12:19

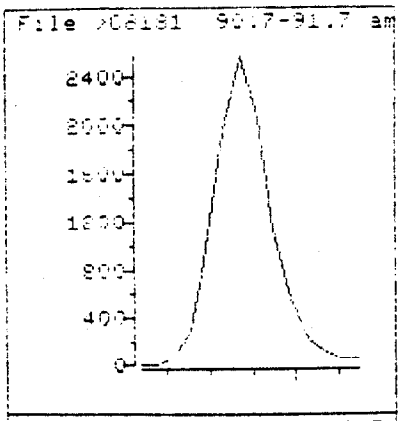
Compound Nr: 56
Compound Name: Ethylbenzene
Scan Number: 971
Retention Time: 20.22 min.
Quant Ion: 106.0
Area: 2435
Concentration: 2.74 ug/l
q-value: 97

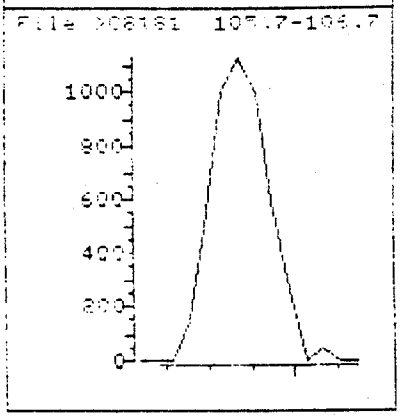


Data File: >C9181::DF Quant Output File: ^C9181::QT
Name: 15226N C6620
Misc: JM943PU,NOU3670,8:M0,0.50,5:1,
Quant Time: 940628 15:16 Quant ID File: IC628A::D4
Injected at: 940628 14:25 Last Calibration: 940628 12:19

Compound No: 57
Compound Name: m+p-Xylenes
Scan Number: 984
Retention Time: 20.48 min.
Quant Ion: 106.0
Area: 12287
Concentration: 9.10 ug/l
q-value: 90

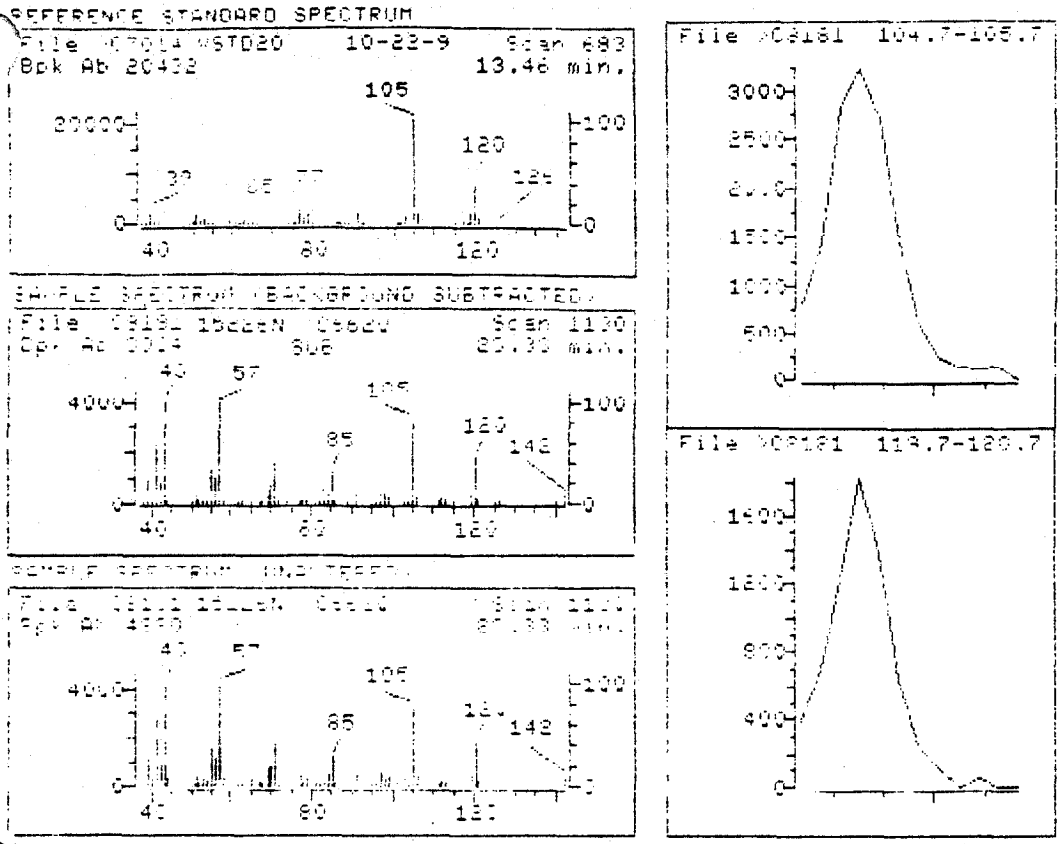






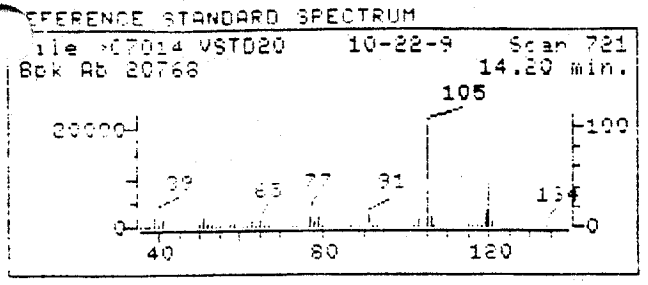
Data File: >C8181::D5 Quant Output File: ^C8181::QT
Name: 1920AN ^A620
Misc: JM9437V,NQV3670,S:M2,0.50,5:1,
Quant Time: 940628 15:14 Quant ID File: IC628A::D4
Injected at: 940628 14:05 Last Calibration: 940628 12:19

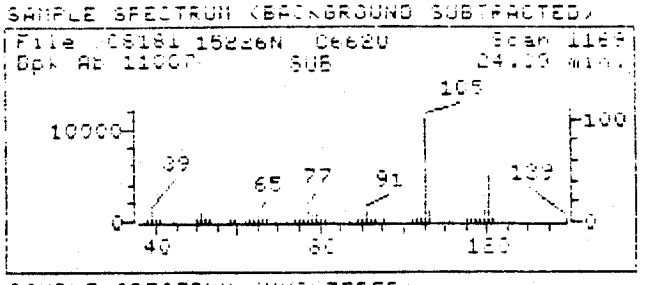
Compound No: 58
Compound Name: o-Xylene
Scan Number: 1008
Retention Time: 21.34 min.
Quant Ion: 106.0
Area: 5472
Concentration: 4.26 ug/l
q-value: 91

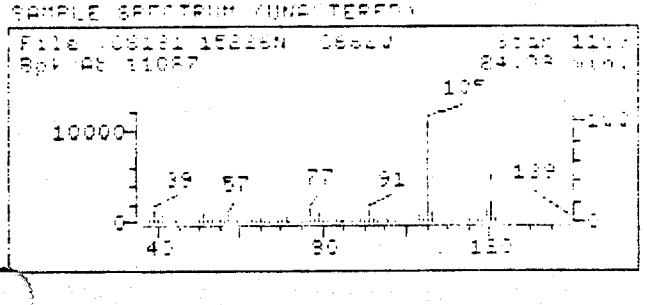


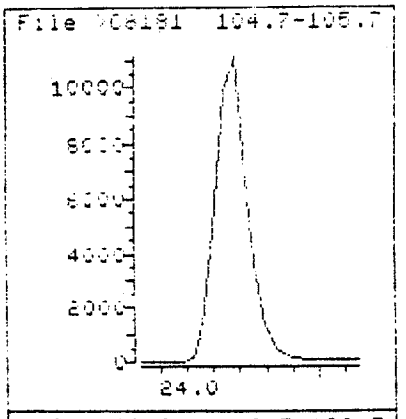
Data File: >C8181::DF Quant Output File: ^C8181::QT
Name: 15206N C6620
Misc: JM943PU,N2U3620,S:M2,0.50,5:1,
Quant Time: 940628 15:16 Quant ID File: IC628A::D4
Injected at: 940628 14:25 Last Calibration: 940628 12:19

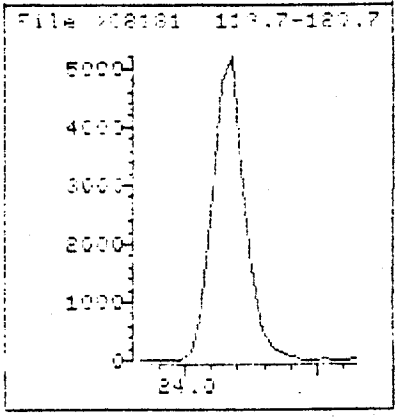
Compound No: 68
Compound Name: 1,3,5-Trimethylbenzene
Scan Number: 1170
Retention Time: 23.33 min.
Quant Ion: 105.0
Area: 15131
Concentration: 4.99 ug/l
q-value: 95





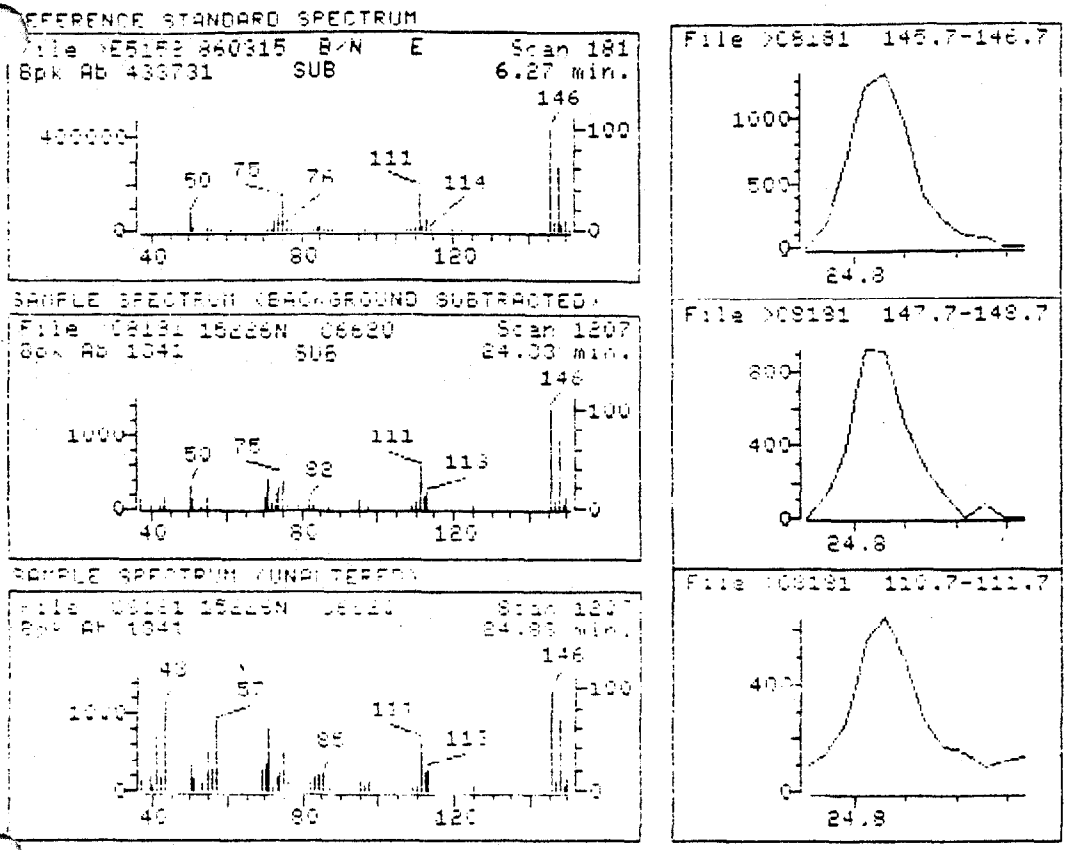






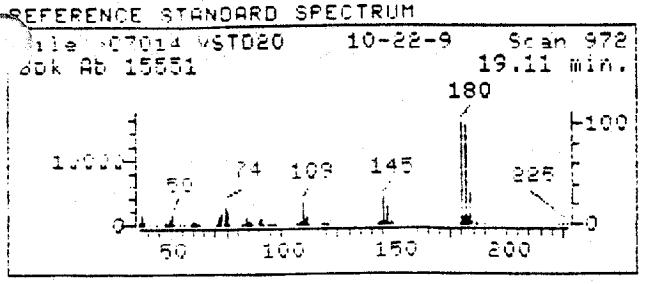
Data File: >C8181::DF Quant Output File: ^C8181::QT
Name: 15226N C662U
Misc: JM9437U,N2U3670,S:M2,0.50,5:1,
Quant Time: 940628 15:16 Quant ID File: IC628A::D4
Injected at: 940628 14:25 Last Calibration: 940628 12:19

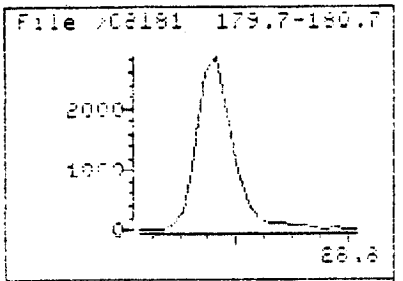
Compound No: 70
Compound Name: 1,2,4-Trimethylbenzene
Scan Number: 1169
Retention Time: 24.09 min.
Quant Ion: 105.0
Area: 48679
Concentration: 16.72 ug/l
q-value: 82

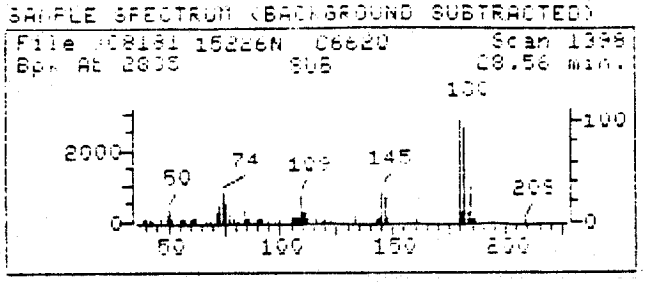


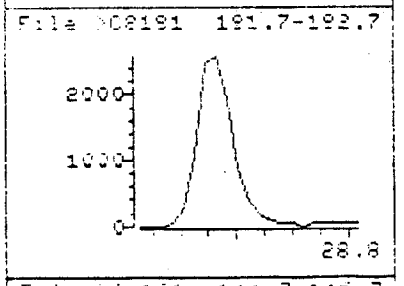
Data File: >C8181::D9 Quant Output File: ^C8181::QT
Name: 15226N C6620
Misc: JM9437U,N2U3670,S:M2,0.50,5:1,
Quant Time: 940628 15:16 Quant ID File: IC628A::D4
Injected at: 940628 14:25 Last Calibration: 940628 12:19

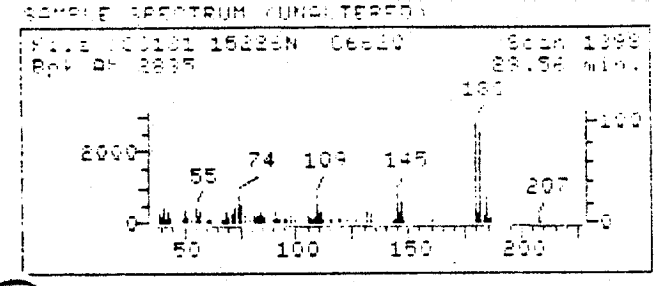
Compound No: 73
Compound Name: 1,3-Dichlorobenzene
Scan Number: 1207
Retention Time: 24.83 min.
Quant Ion: 146.0
Area: 6046
Concentration: 2.89 ug/l
q-value: 97

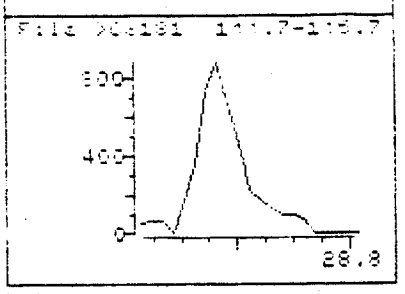






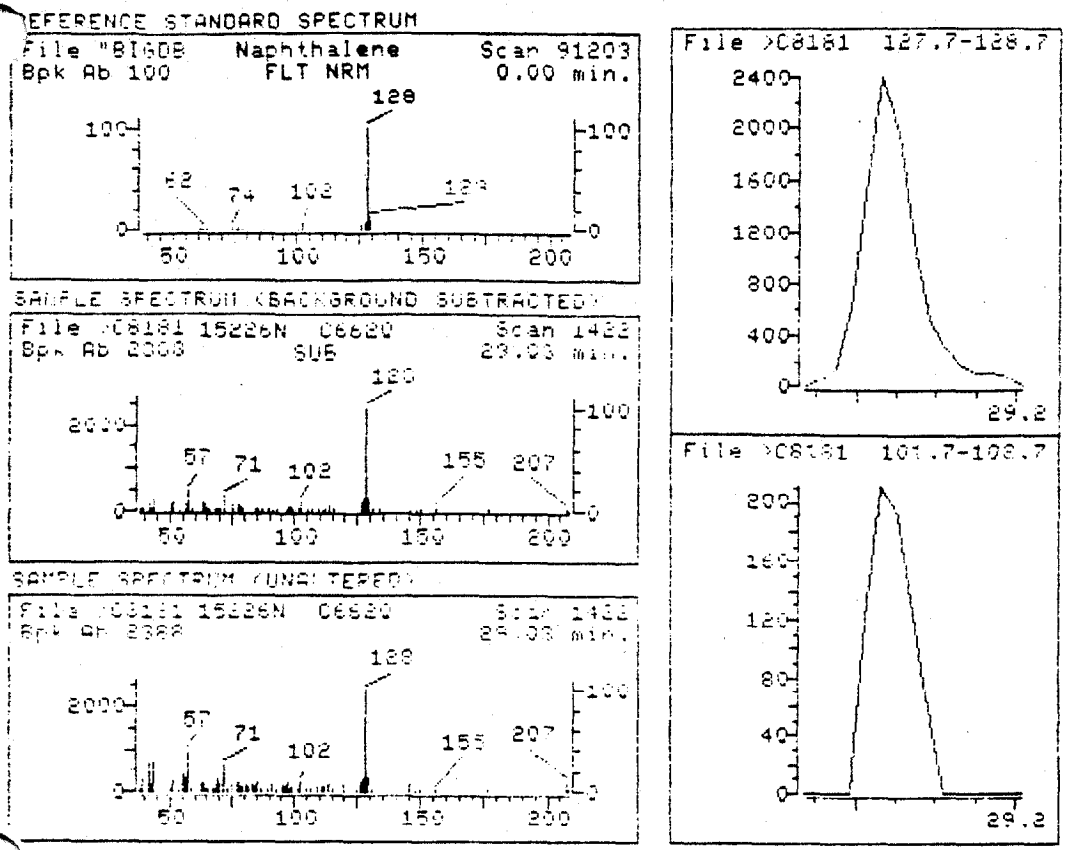






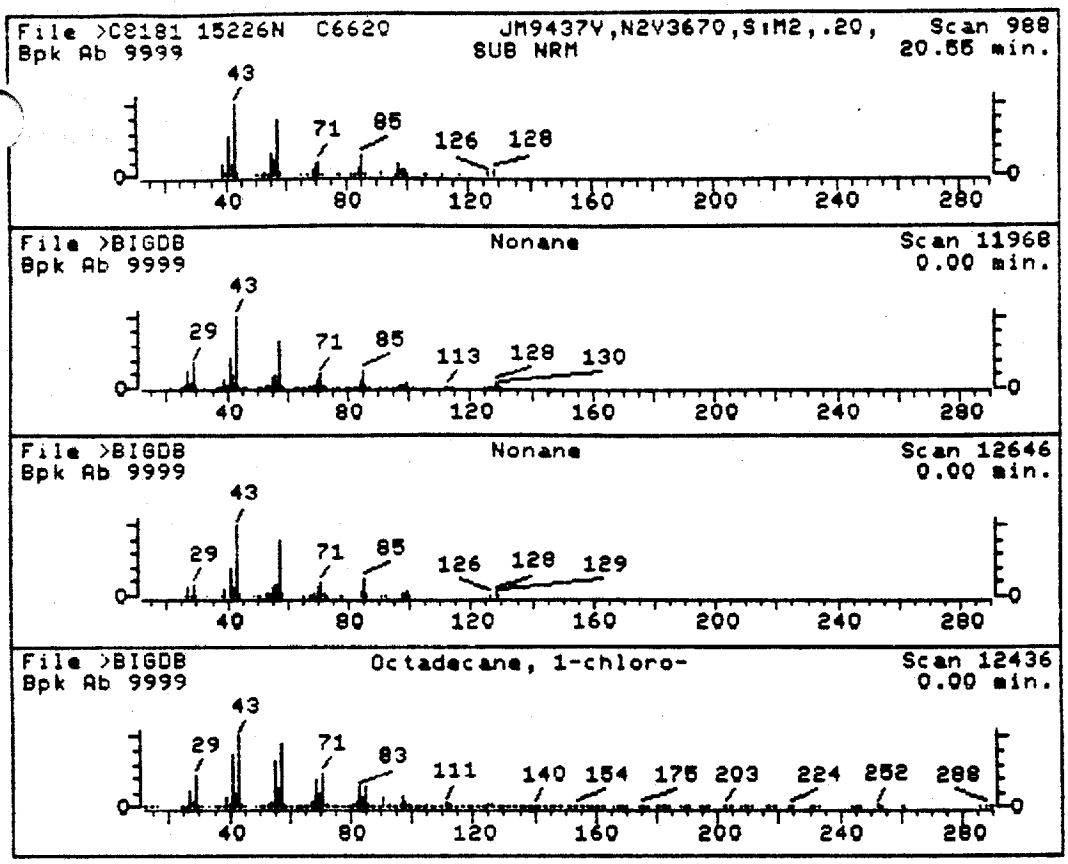
Data File: >C8181::DF Quant Output File: ^C8181::QT
Name: 15226N C6620
Misc: JM9437U,N2U3670,S:M2,0.50,5:1,
Quant Time: 940628 15:16 Quant ID File: IC628A::D4
Injected at: 940628 14:29 Last Calibration: 940628 12:19

Compound No: 78
Compound Name: 1,2,4-Trichlorobenzene
Scan Number: 1398
Retention Time: 29.56 min.
Quant Ion: 180.0
Area: 12926
Concentration: 7.17 ug/l
q-value: 92



Data File: >C8181::D5 Quant Output File: ^C8181::QT
Name: 15226N C6620
Misc: JM9437U,N2U3670,S:M2,0.50,5:1,
Quant Time: 940628 15:16 Quant ID File: IC628A::D4
Injected at: 940628 14:26 Last Calibration: 940628 12:19

Compound No: 80
Compound Name: Naphthalene
Scan Number: 1422
Retention Time: 29.03 min.
Quant Ion: 128.0
Area: 10670
Concentration: 2.79 ug/l
q-value: 88

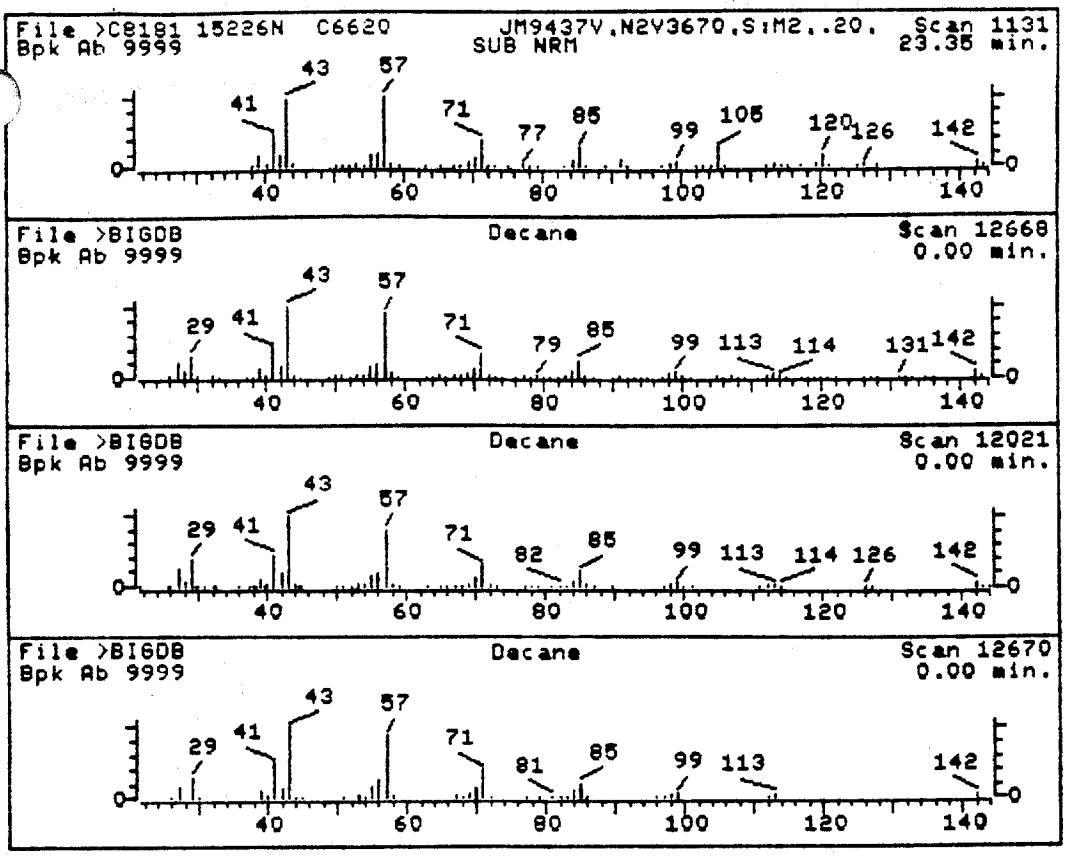


Data File: >C8181::D5
Name: 15226N C6620
Misc Data: JM9437V,N2V3670,S:M2,.20,5:1,
RT (min): 20.55
Scan: 988
Area: 365917 Rank: 4
Semi-quantitative Conc (uncorrected): 48.27 ug/l
Semi-quantitative Conc (corrected): 241.37 ug/kg
Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 19.91 minutes

1.	Nonane	128 C9H20
2.	Nonane	128 C9H20
3.	Octadecane, 1-chloro-	288 C18H37Cl

Sample file: >C8181 Spectrum #: 988
Search speed: 2 Tilting option: S No. of ion ranges searched: 54

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	95*	111842	11968	"BIGDB	83	13	0	0	98	8	68	95
2.	83*	111842	12646	"BIGDB	63	32	0	0	83	13	51	76
3.	70	3386332	12436	"BIGDB	72	75	3	0	73	8	42	12



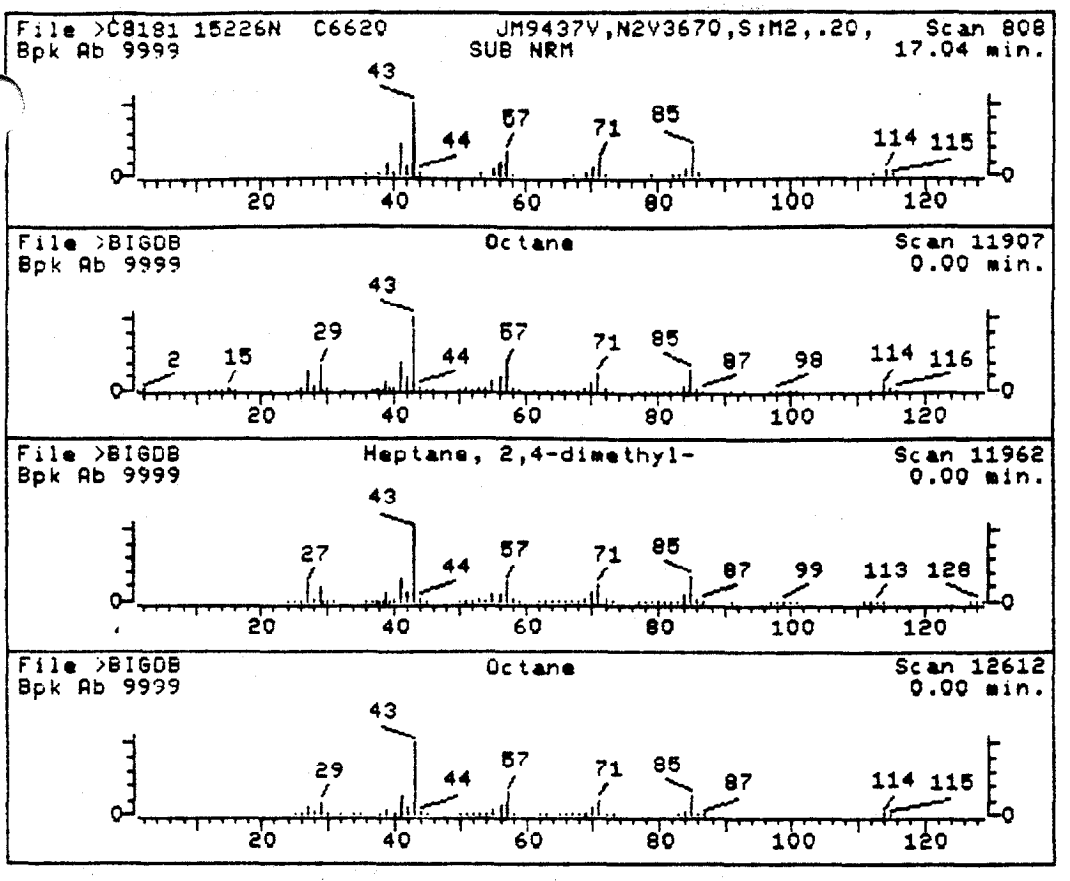
Data File: >C8181::D5
Name: 15226N C6620
Misc Data: JM9437V,N2V3670,S:M2,.20,5:1,
RT (min): 23.35
Scan: 1131
Area: 227755 Rank: 5
Semi-quantitative Conc (uncorrected): 30.05 ug/l
Semi-quantitative Conc (corrected): 150.24 ug/kg
Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 19.91 minutes

± .005: .751

1.	Decane	142 C10H22
2.	Decane	142 C10H22
3.	Decane	142 C10H22

Sample file: >C8181 Spectrum #: 1131
Search speed: 2 Tilting option: S No. of ion ranges searched: 63

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	95*	124185	12668	"BIGDB	91	9	0	0	84	13	64	96
2.	95*	124185	12021	"BIGDB	89	8	0	0	90	13	64	96
3.	93*	124185	12670	"BIGDB	77	22	0	0	77	18	60	93



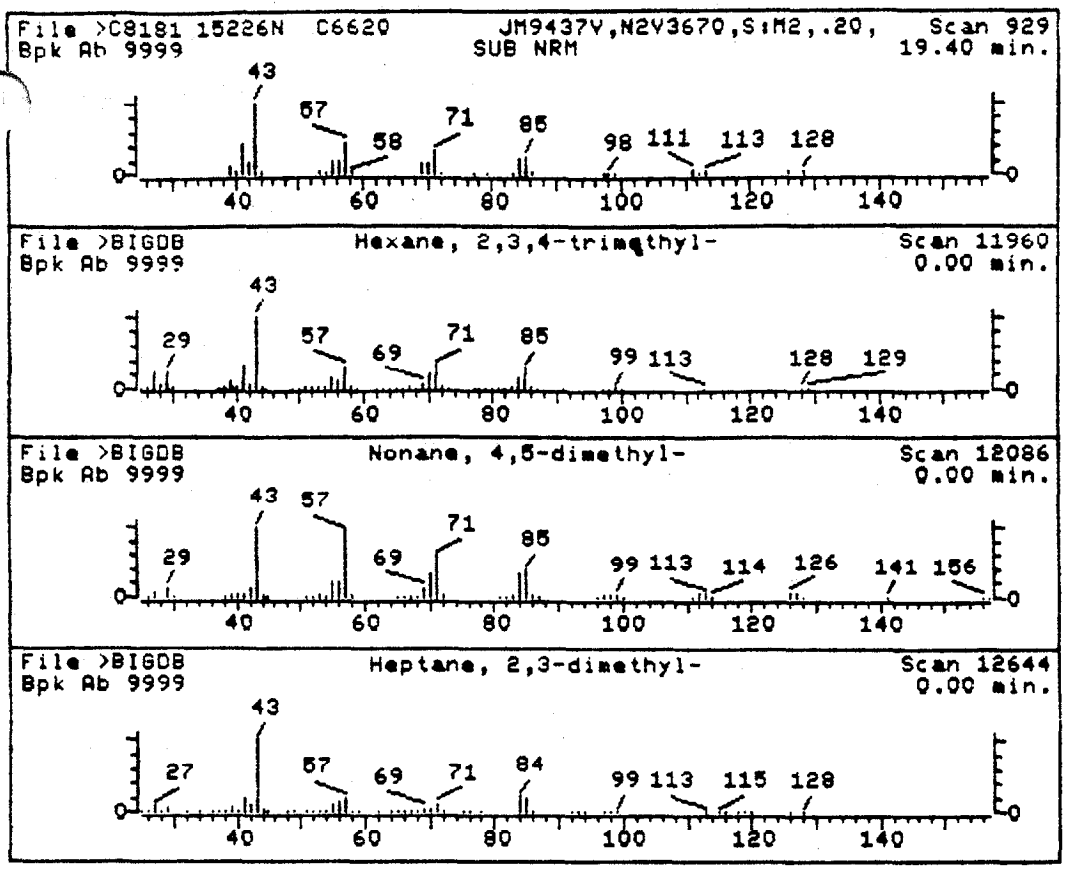
Data File: >C8181::D5
Name: 15226N C6620
Misc Data: JM9437V,N2V3670,S:M2,.20,5:1,
RT (min): 17.04
Scan: 808
Area: 186856 Rank: 6
Semi-quantitative Conc (uncorrected): 24.65 ug/l
Semi-quantitative Conc (corrected): 123.26 ug/kg
Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 19.91 minutes

.616
+.005"

1. Octane 114 C8H18
2. Heptane, 2,4-dimethyl- 128 C9H20
3. Octane 114 C8H18

Sample file: >C8181 Spectrum #: 808
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	95*	111659	11907	"BIGDB	81	12	0	0	90	1	72	95
	76	2213232	11962	"BIGDB	60	32	2	0	100	9	45	21
	70*	111659	12612	"BIGDB	71	18	1	0	116	45	24	77



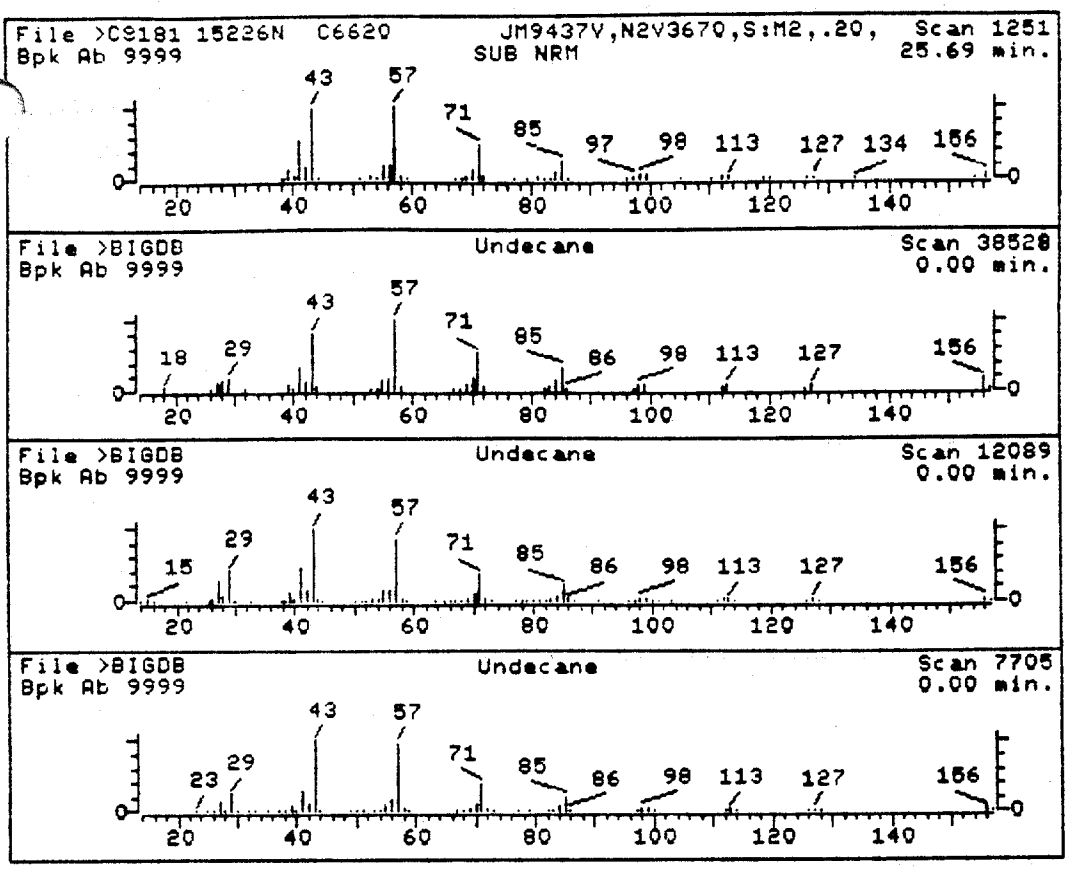
Data File: >C8181::D5
Name: 15226N C6620
Misc Data: JM9437U,N2U3670,S:M2,.20,5:1,
RT (min): 19.40
Scan: 929
Area: 145720 Rank: 9
Semi-quantitative Conc (uncorrected): 19.22 ug/l
Semi-quantitative Conc (corrected): 96.12 ug/kg
Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 19.91 minutes

.481
x.005

1. Hexane, 2,3,4-trimethyl- 128 C9H20
2. Nonane, 4,5-dimethyl- 156 C11H24
3. Heptane, 2,3-dimethyl- 128 C9H20

Sample file: >C8181 Spectrum #: 929
Search speed: 2 Tilting option: S No. of ion ranges searched: 55

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	58*	921471	11960	"BIGDB	39	51	0	0	86	34	22	43
2.	58	17302237	12086	"BIGDB	61	29	2	0	48	18	25	21
3.	50*	3074713	12644	"BIGDB	36	52	0	0	100	40	17	39

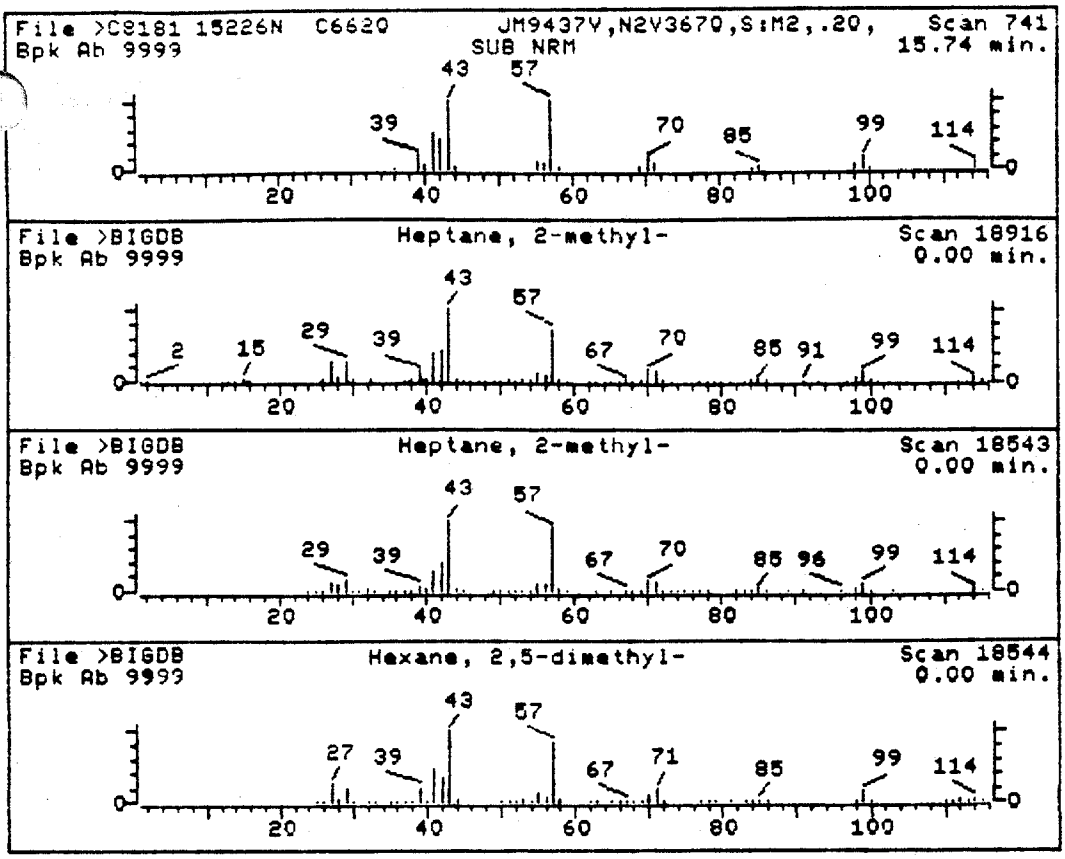


Data File: >C8181::D5
Name: 15226N C6620
Misc Data: JM9437V,N2V3670,S:M2,.20,5:1,
RT (min): 25.69
Scan: 1251
Area: 124436 Rank: 12
Semi-quantitative Conc (uncorrected): 16.42 ug/l
Semi-quantitative Conc (corrected): 82.08 ug/kg
Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 19.91 minutes

1.	Undecane	156 C11H24
2.	Undecane	156 C11H24
3.	Undecane	156 C11H24

Sample file: >C8181 Spectrum #: 1251
Search speed: 2 Tilting option: S No. of ion ranges searched: 57

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	95*	1120214	38528	"BIGDB	97	11	0	4	89	5	72	93
2.	95*	1120214	12089	"BIGDB	83	14	0	0	97	2	72	95
3.	89*	1120214	7705	"BIGDB	65	31	0	0	97	3	66	78



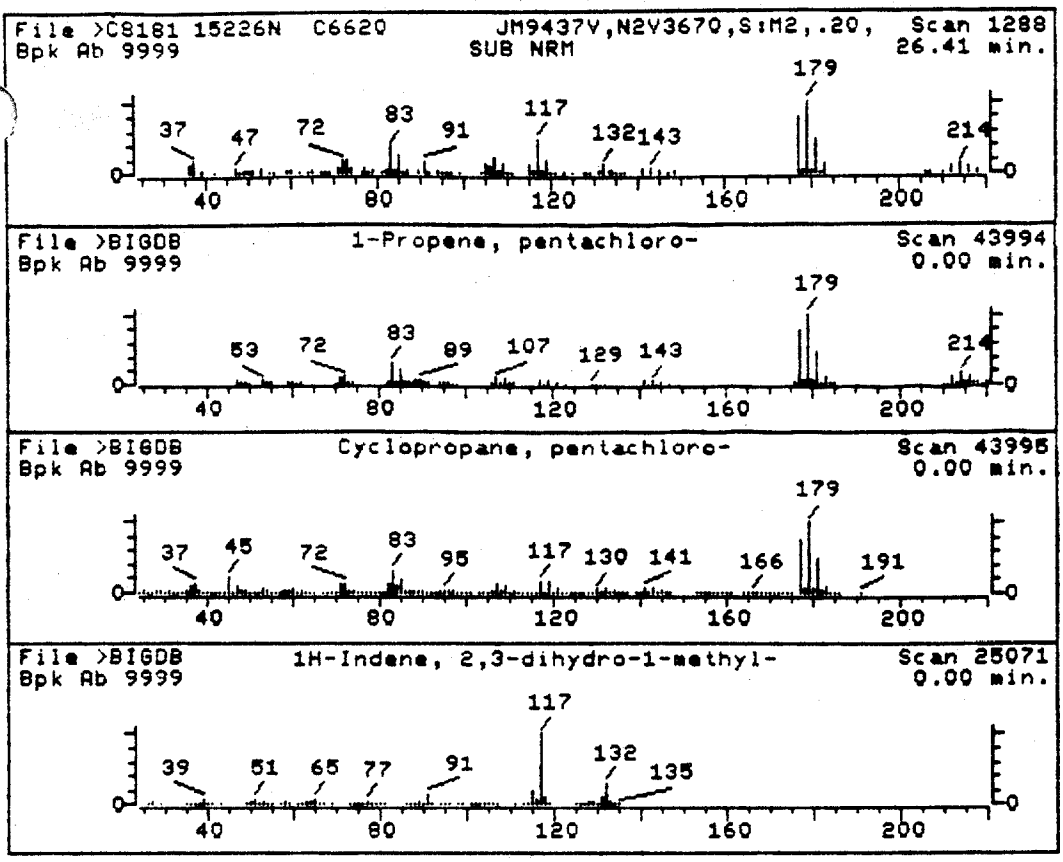
Data File: >C8181::D5
Name: 15226N C6620
Misc Data: JM9437U,N2U3670,S:M2,.20,5:1,
RT (min): 15.74
Scan: 741
Area: 117529 Rank: 13
Semi-quantitative Conc (uncorrected): 14.94 ug/l
Semi-quantitative Conc (corrected): 74.68 ug/kg
Calculated using Istd: 1,4-DIFLUOROBENZENE (ISTD) @ 13.32 minutes

x .005 = .373

1. Heptane, 2-methyl- 114 C8H18
2. Heptane, 2-methyl- 114 C8H18
3. Hexane, 2,5-dimethyl- 114 C8H18

Sample file: >C8181 Spectrum #: 741
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	84*	592278	18916	"BIGDB	69	24	1	0	98	6	55	67
	84*	592278	18543	"BIGDB	50	41	0	0	95	8	55	60
	60*	592132	18544	"BIGDB	43	50	3	0	98	12	30	15



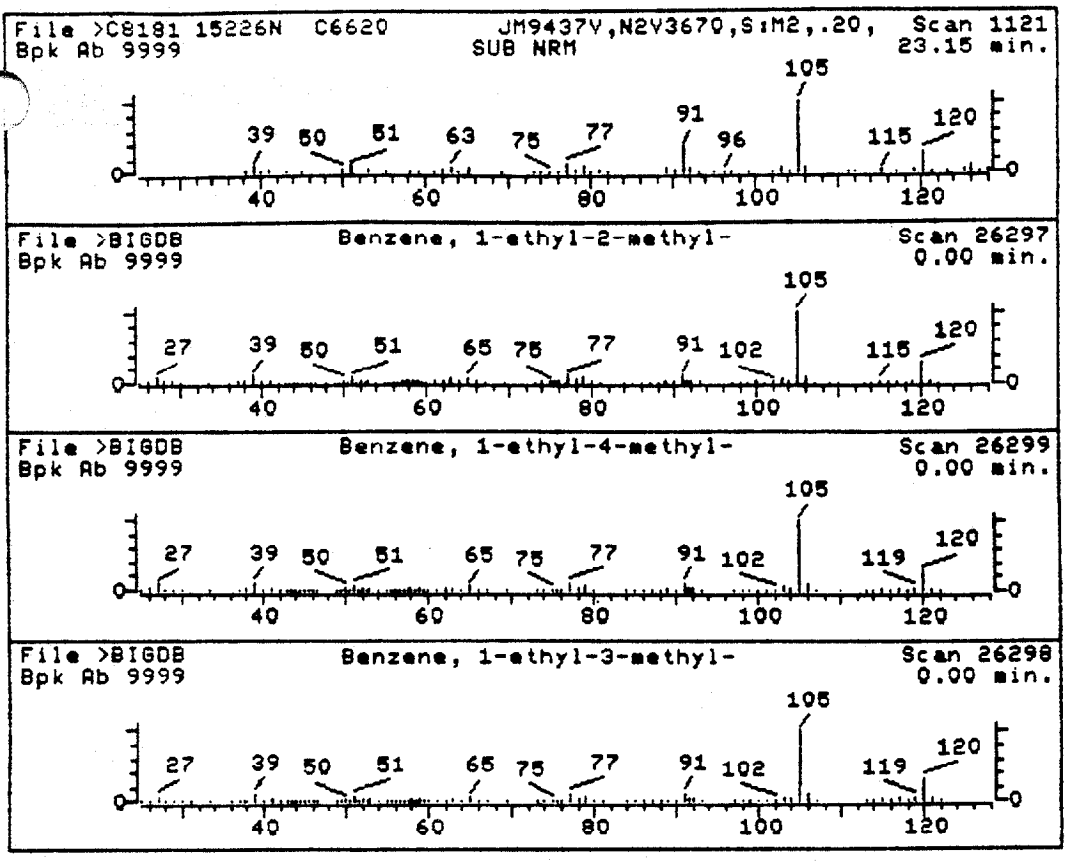
Data File: >C8181::D5
Name: 15226N C6620
Misc Data: JM9437V,N2V3670,S:M2,.20,5:1,
RT (min): 26.41
Scan: 1288
Area: 112401 Rank: 14
Semi-quantitative Conc (uncorrected): 14.83 ug/l
Semi-quantitative Conc (corrected): 74.14 ug/kg
Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 19.91 minutes

K.005 - .371

1. 1-Propene, pentachloro- 212 C3HCl5
2. Cyclopropane, pentachloro- 212 C3HCl5
3. 1H-Indene, 2,3-dihydro-1-methyl- 132 C10H12

Sample file: >C8181 Spectrum #: 1288
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	95*	69102778	43994	"BIGDB	96	44	0	0	83	21	53	97
2.	64	6262517	43995	"BIGDB	85	61	1	0	81	25	28	40



Data File: >C8181::D5
Name: 15226N C6620
Misc Data: JM9437V,N2V3670,S:M2,.20,5:1,
RT (min): 23.15
Scan: 1121
Area: 111422 Rank: 15
Semi-quantitative Conc (uncorrected): 14.70 ug/l
Semi-quantitative Conc (corrected): 73.50 ug/kg
Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 19.91 minutes

K .005 = .368

1. Benzene, 1-ethyl-2-methyl- 120 C9H12
2. Benzene, 1-ethyl-4-methyl- 120 C9H12
3. Benzene, 1-ethyl-3-methyl- 120 C9H12

Sample file: >C8181 Spectrum #: 1121
Search speed: 2 Tilting option: S No. of ion ranges searched: 57

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	91*	611143	26297	"BIGDB	67	18	0	0	82	23	53	92
2.	91*	622968	26299	"BIGDB	67	18	0	0	85	23	53	92
3.	86*	620144	26298	"BIGDB	69	18	0	2	81	19	50	83

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA CLW21

Lab Code: ___ Case No.: ___ SAS No.: ___ SDG No.: CLW17

Matrix: (soil/water) Soil Lab Sample ID: JM9438

Sample wt/vol: 4/LC (g/mL) g Lab File ID: B4157

Level: (low/med) Med. Date Received: 06/23/94

% Moisture: not dec. NA Date Analyzed: 06/27/94

GC Column: DB624 ID: .75 (mm) Dilution Factor: ~~2000~~ 1000 DL

Soil Extract Volume: ~~5000~~ (uL) Soil Aliquot Volume: 5 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ~~ug/Kg~~ ug	Q
74-87-3	Chloromethane	12000	U
74-83-9	Bromomethane		
75-01-4	Vinyl Chloride		
75-00-3	Chloroethane		
75-09-2	Methylene Chloride	2520	
67-64-1	Acetone	12000	U
75-15-0	Carbon Disulfide		
75-35-4	1,1-Dichloroethene		
75-34-3	1,1-Dichloroethane		
540-59-0	1,2-Dichloroethene (total)		
67-66-3	Chloroform		
107-06-2	1,2-Dichloroethane		
78-93-3	2-Butanone	24000	
71-55-6	1,1,1-Trichloroethane	12000	U
56-23-5	Carbon Tetrachloride		
75-27-4	Bromodichloromethane		
78-87-5	1,2-Dichloropropane		
10061-01-5	cis-1,3-Dichloropropene		
79-01-6	Trichloroethene		
124-48-1	Dibromochloromethane		
79-00-5	1,1,2-Trichloroethane		
71-43-2	Benzene		
10061-02-6	trans-1,3-Dichloropropene		
75-25-2	Bromoform		
108-10-1	4-Methyl-2-Pentanone	24000	
591-78-6	2-Hexanone	12000	U
127-18-4	Tetrachloroethene		
79-34-5	1,1,2,2-Tetrachloroethane		
108-88-3	Toluene	1640	J
108-90-7	Chlorobenzene	12000	U
100-41-4	Ethylbenzene	5910	
100-42-5	Styrene	12000	U
1330-20-7	Xylene (total)	83700	

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ASC Contract: NERSA Club21

Lab Code: ~ Case No.: — SAS No.: — SDG No.: Club17

Matrix: (soil/water) Soil Lab Sample ID: JM943E

Sample wt/vol: 4.14 (g/mL) g Lab File ID: B4157

Level: (low/med) Med Date Received: 06/29/94

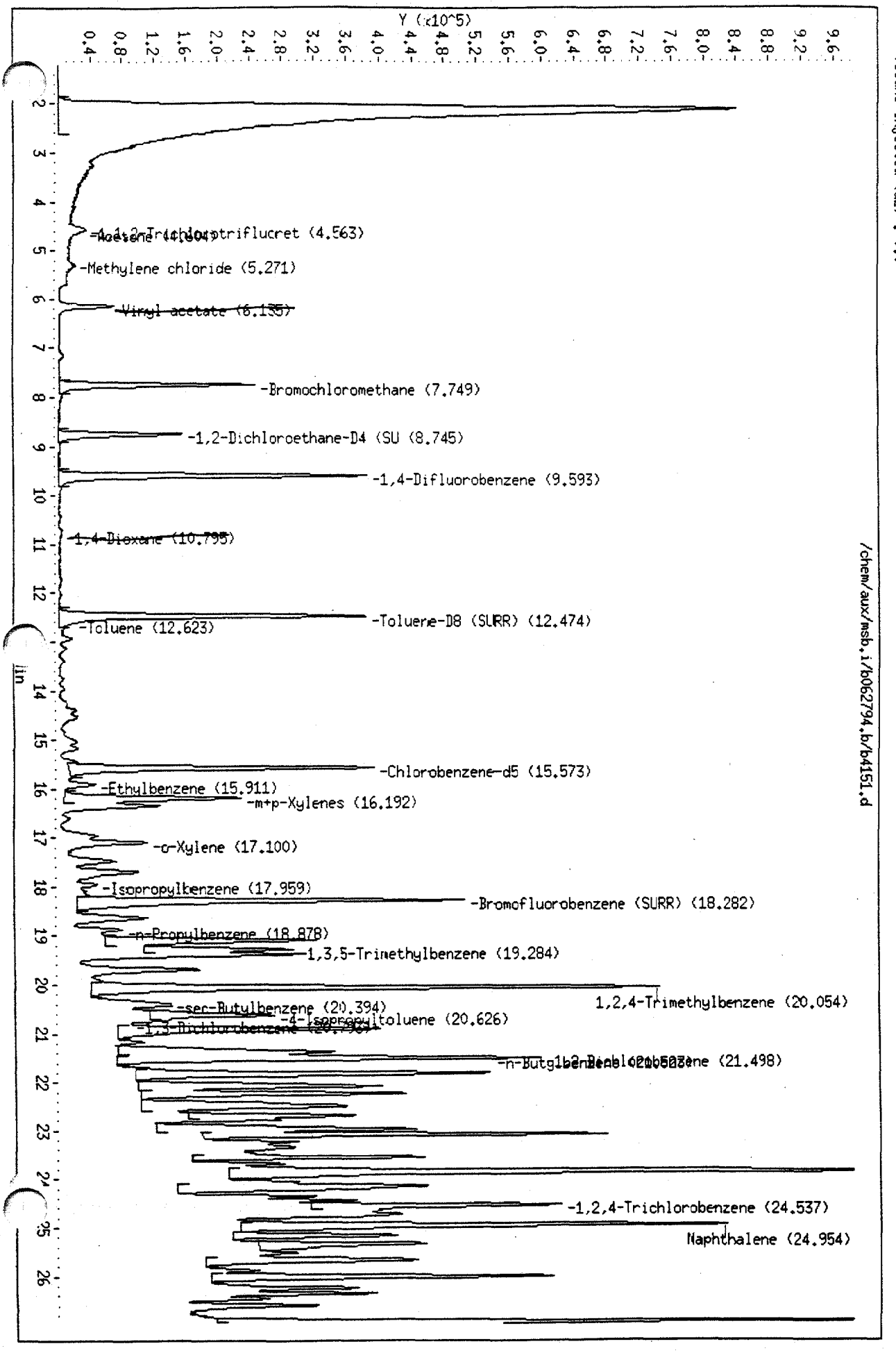
% Moisture: not dec. NA Date Analyzed: 06/29/94

GC Column: DB624 ID: 75 (mm) Dilution Factor: ~~10000~~ 100 DL

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 5 (uL)

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	526-73-8	Benzene, 1,2,3-trimethyl-	20.909	527000	J
2.		Unknown Substituted Aromatic	19.093	45200	J
3.			20.626	24000	J
4.		↓	21.373	47500	J
5.					
6.					
7.		Isopropylbenzene	17.959	6560	X
8.		n-propylbenzene	18.878	14000	X
9.		1,3,5-Trimethylbenzene	19.284	53800	X
10.		1,2,4-Trimethylbenzene	20.054	154000	X
11.		sec-butylbenzene	20.394	11800	X
12.		1,3-Dichlorobenzene	20.743	2960	X
13.		4-Isopropyltoluene	20.646	17300	X
14.		1,4-Dichlorobenzene	20.793	2900	X
15.		1,2-Dichlorobenzene	21.507	13200	X
16.		n-Butylbenzene	21.523	29800	X
17.		Naphthalene	24.963	200000	X
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					



Data File: /chem/aux/msb.i/b062794.b/b4151.d
Date : 27-JUN-94 17:27
Instrument : msb.i
Sample ID :
Column phase : J&W DB_624
Volume Injected (uL) : 0.0

C6621

Column diameter : 0.53

Data File: /chem/aux/msb.i/b062794.b/b4151.d
Report Date: 28-Jun-1994 07:34

Analytical Services Corp.

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/aux/msb.i/b062794.b/b4151.d
Lab. Id. :
Inj Date : 27-JUN-94 17:27
Operator : steve
Smp Info : 15226n c6621
Misc Info : jm9438v,n4v3672,1:m2,4.16,5:~~10000~~ 2270
Comment :
Method : /chem/aux/msb.i/b062794.b/8240b.m
Meth Date : 28-Jun-1994 07:29 tom
Cal Date : 27-JUN-94 10:54
Als bottle: 11
Dil Factor: 1.000
Integrator: HP RTE
Sample Matrix: WATER

Quant Type: ISTD
Autotune Date: {
Inst ID: msb.i
Cal File: b4143.d
Target Version: Target 3.00
Compound Sublist: all.sub

	Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	9 1,1,2-Trichlorotrifluorethane	101.00	4.563	(0.589)	7296	0.731	0.731(aQ)
	~~11 Acetone~~	43.00	4.604	(0.594)	2993	2.48	~~2.48(a)~~
	15 Methylene chloride	84.00	5.271	(0.680)	5237	1.05	1.05(a)
	~~20 Vinyl acetate~~	~~43.00~~	~~6.135~~	~~(0.640)~~	~~27983~~	~~15.7~~	~~15.7(aQ)~~
*	25 Bromochloromethane	128.00	7.749	(1.000)	179372	50.0	
$	31 1,2-Dichloroethane-D4 (SURR)	65.00	8.745	(1.129)	300265	51.7	51.7
*	34 1,4-Difluorobenzene	114.00	9.593	(1.000)	824041	50.0	
	38 1,4-Dioxane	88.00	10.795	(1.125)	1997	~~20.2~~	~~20.2~~
$	43 Toluene-D8 (SURR)	98.00	12.466	(0.801)	787354	48.9	48.9
	44 Toluene	92.00	12.623	(0.811)	7062	0.688	0.688(a)
*	52 Chlorobenzene-d5	117.00	15.564	(1.000)	656414	50.0	
	55 Ethylbenzene	106.00	15.911	(1.022)	15018	2.46	2.46(aQ)
	56 m+p-Xylenes	106.00	16.192	(1.040)	171209	23.5	23.5
	57 o-Xylene	106.00	17.100	(1.099)	83967	11.3	11.3
	60 Isopropylbenzene	105.00	17.959	(1.154)	59457	2.73	2.73(a)
$	61 Bromofluorobenzene (SURR)	95.00	18.282	(1.175)	524546	48.2	48.2
	65 n-Propylbenzene	120.00	18.878	(1.213)	34088	5.83	5.83
	67 1,3,5-Trimethylbenzene	105.00	19.284	(1.239)	394726	22.4	22.4
	70 1,2,4-Trimethylbenzene	105.00	20.054	(1.288)	1071776	64.0	64.0
	71 sec-Butylbenzene	105.00	20.394	(1.310)	119655	4.92	4.92(a)
	72 1,3-Dichlorobenzene	146.00	20.793	(1.336)	15415	1.23	1.23(aQ)
	73 4-Isopropyltoluene	119.00	20.626	(1.325)	150177	7.20	7.20
	74 1,4-Dichlorobenzene	146.00	20.793	(1.336)	15415	1.21	1.21(a)
	75 1,2-Dichlorobenzene	146.00	21.507	(1.382)	63114	5.48	5.48(Q)
	76 n-Butylbenzene	91.00	21.523	(1.383)	245843	12.4	12.4(Q)
	78 1,2,4-Trichlorobenzene	180.00	24.537	(1.576)	3936	0.517	~~0.517(aQ)~~
	80 Naphthalene	128.00	24.963	(1.604)	1062762	83.3	83.3

Hexane contaminate

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/aux/msb.i/b062794.b/b4151.d

Date : 27-JUN-94 17:27

Instrument : msb.i

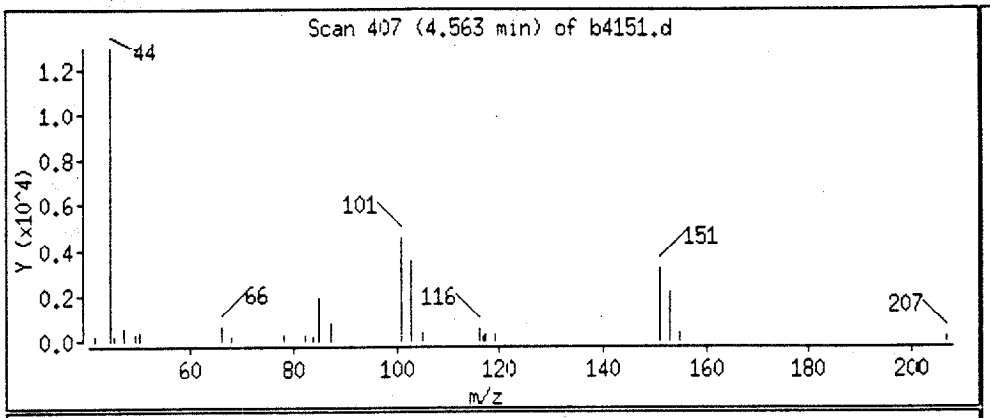
Sample ID :

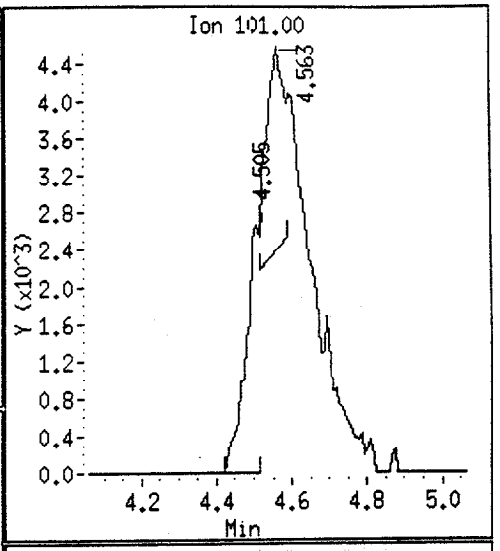
Column phase : J&W DB_624

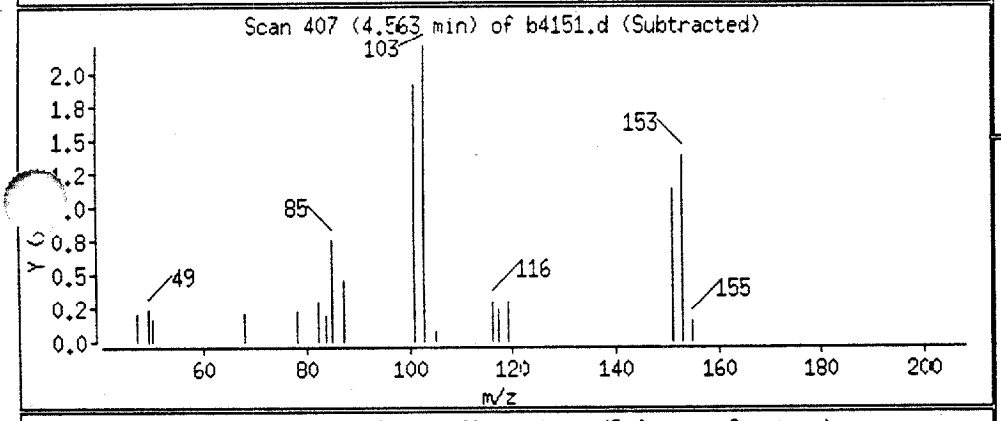
Column diameter : 0.53

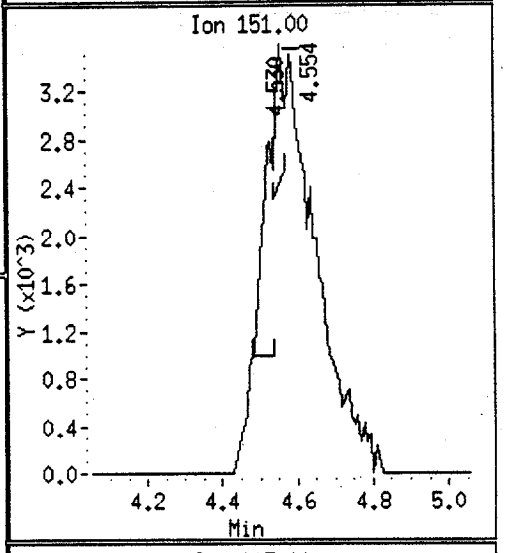
Volume Injected (uL) : 0.0

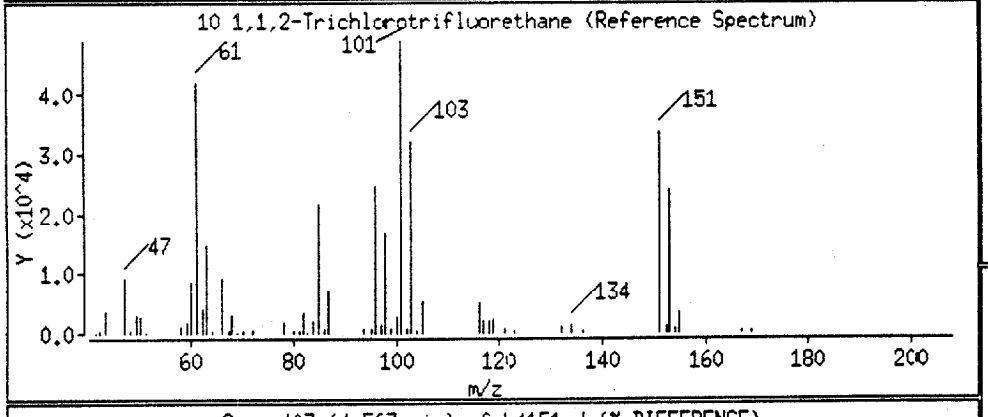
10 1,1,2-Trichlorotrifluorethane

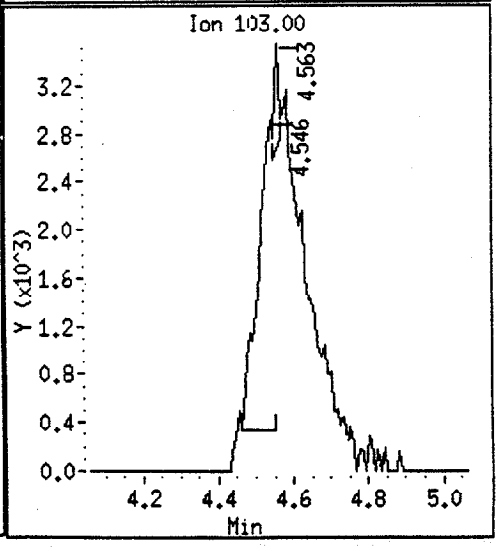


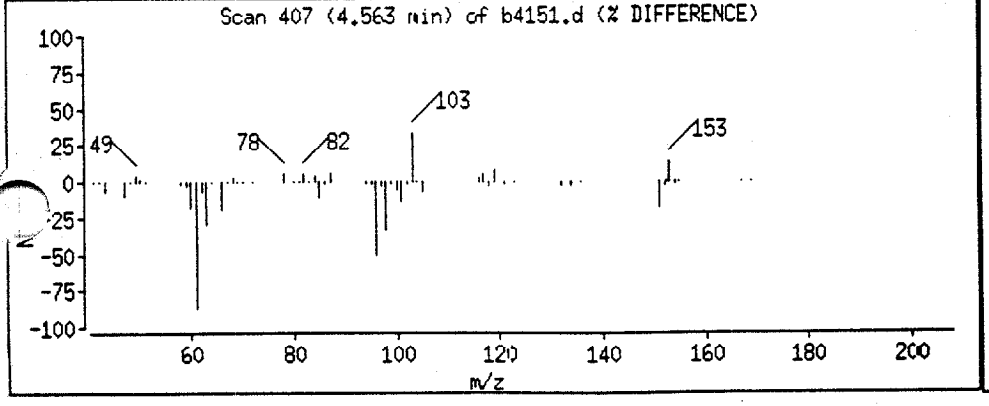












Data File: /chem/aux/msb.i/b062794.b/b4151.d

Date : 27-JUN-94 17:27

Instrument : msb.i

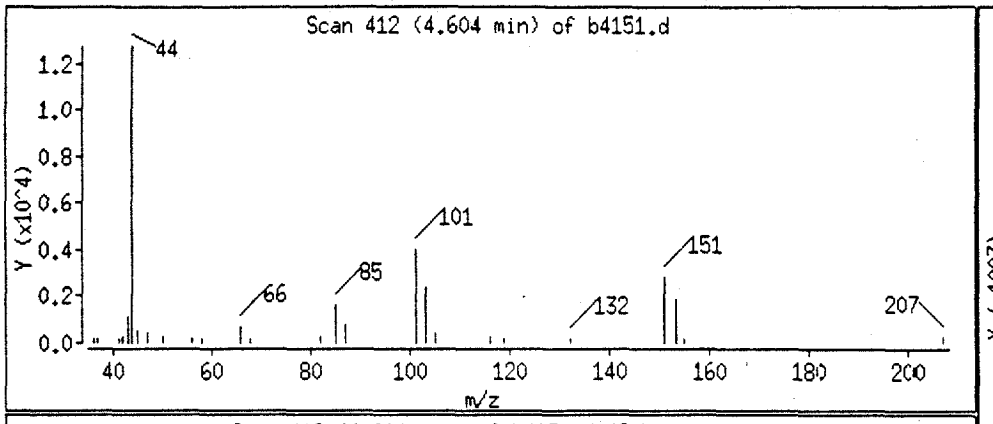
Sample ID :

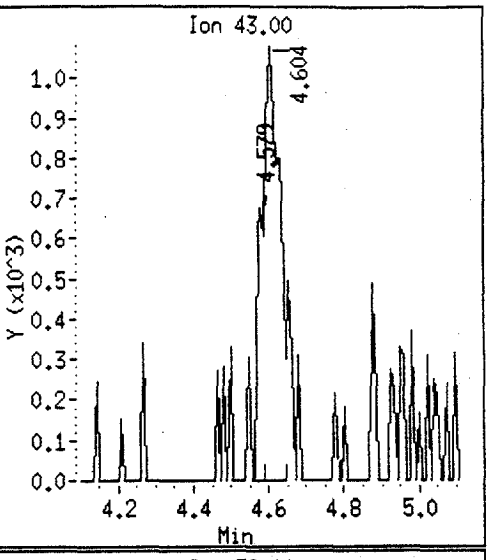
Column phase : J&W DB_624

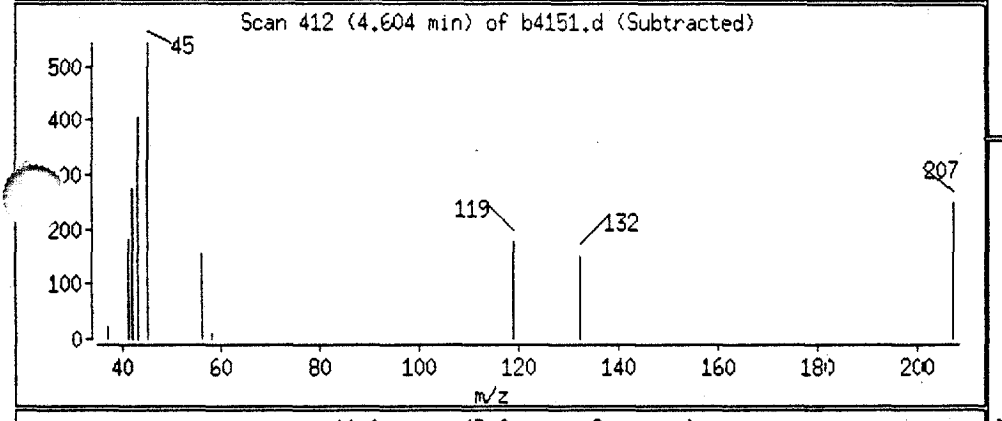
Column diameter : 0.53

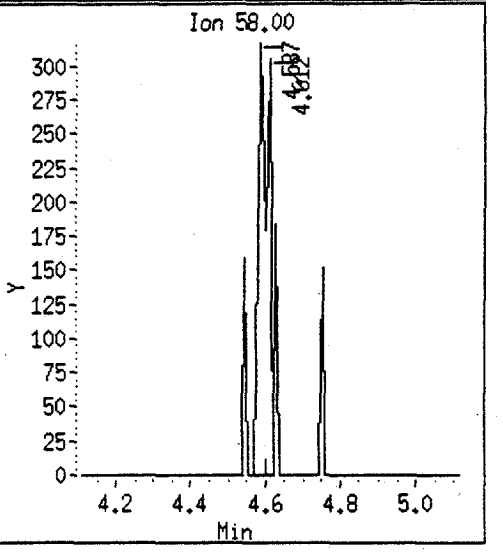
Volume Injected (uL) : 0.0

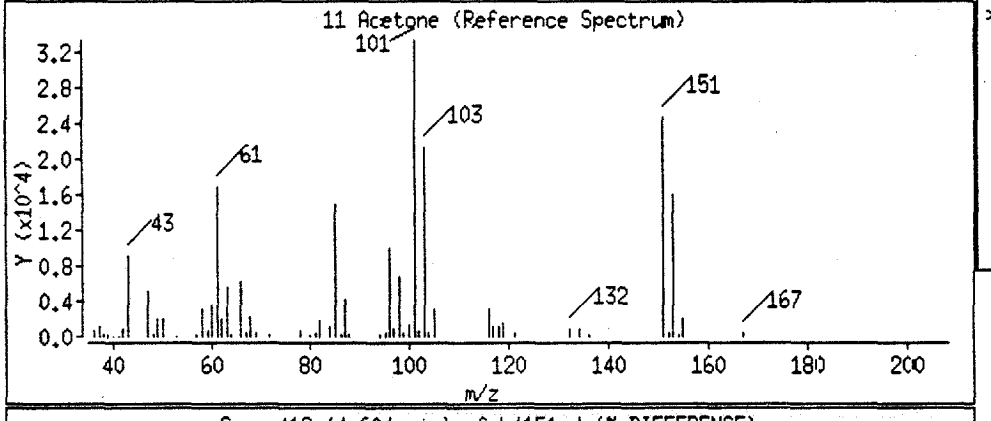
11 Acetone

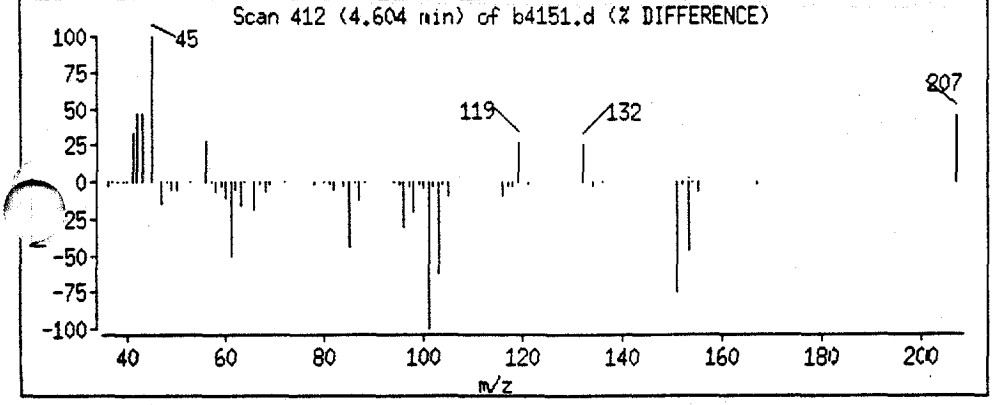












Data File: /chem/aux/msb.i/b062794.b/b4151.d

Date : 27-JUN-94 17:27

Instrument : msb.i

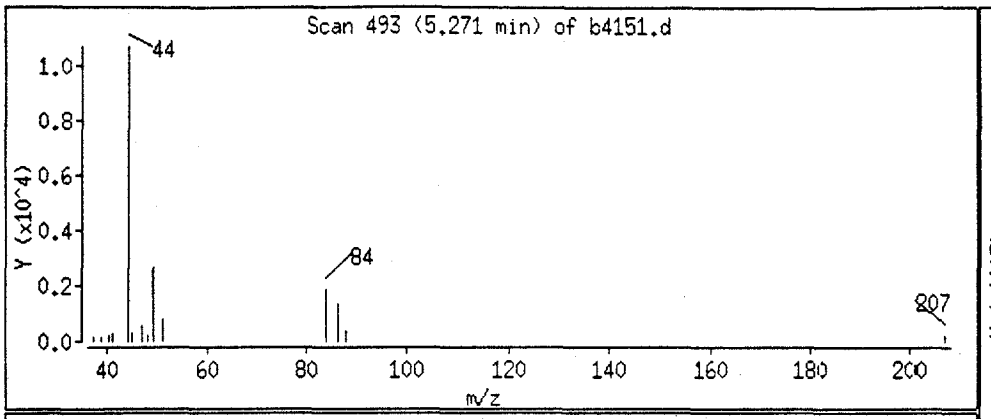
Sample ID :

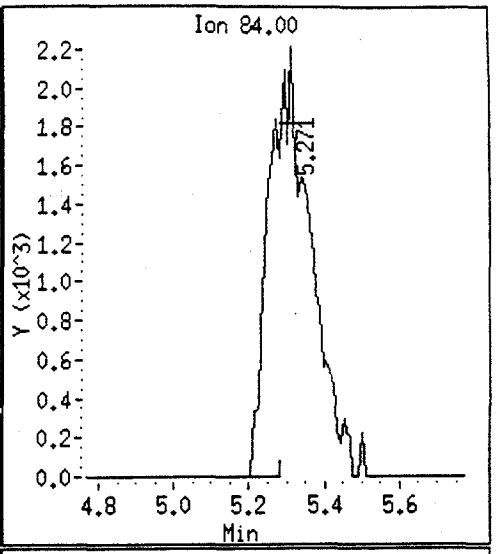
Column phase : J&W DB_624

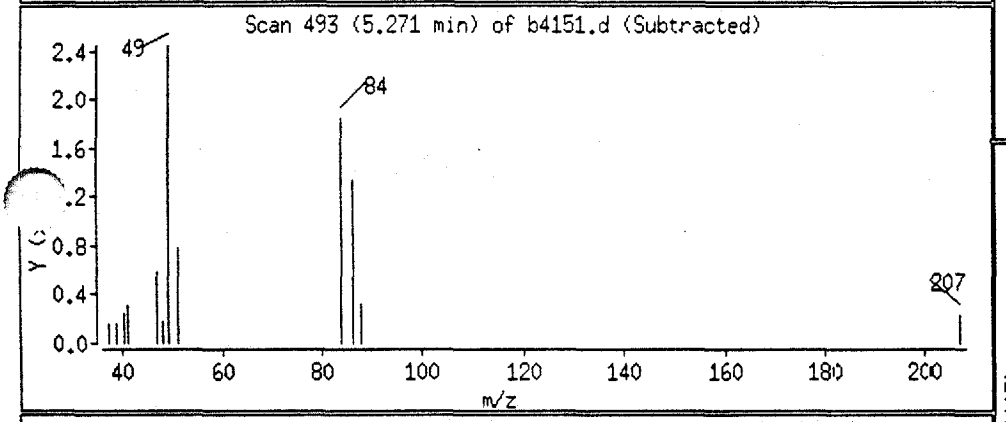
Column diameter : 0.53

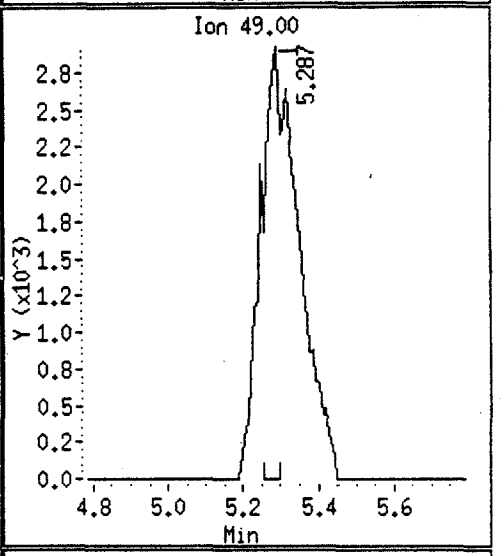
Volume Injected (uL) : 0.0

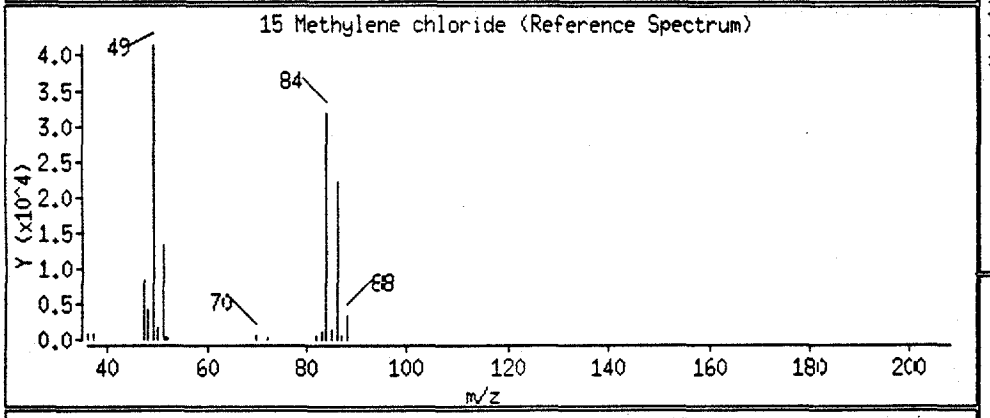
15 Methylene chloride

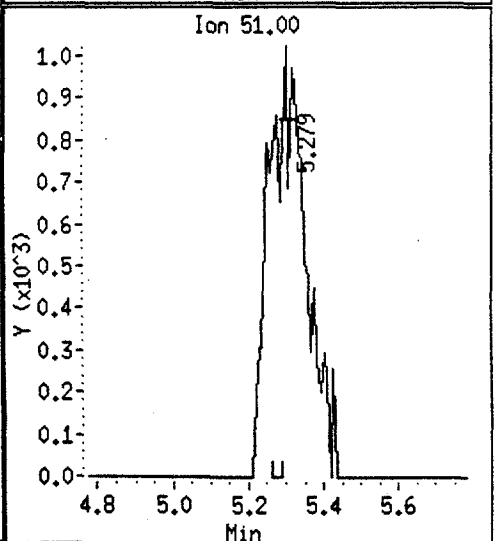


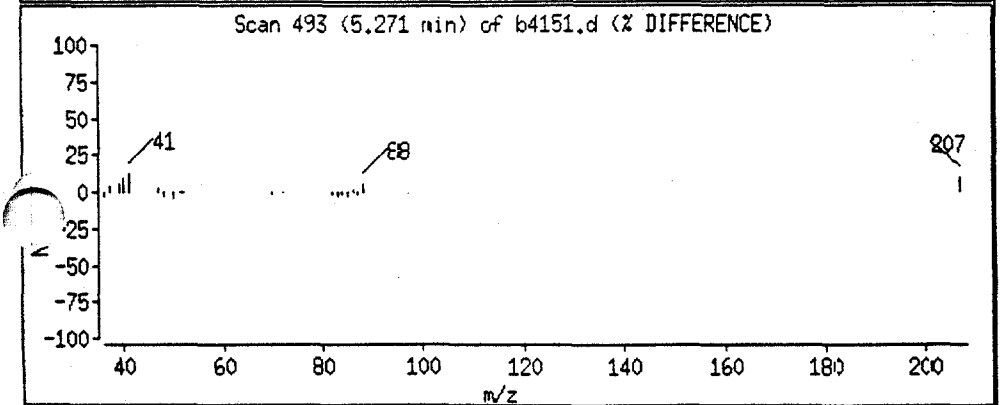












Data File: /chem/aux/msb.i/b062794.b/b4151.d

Date : 27-JUN-94 17:27

Instrument : msb.i

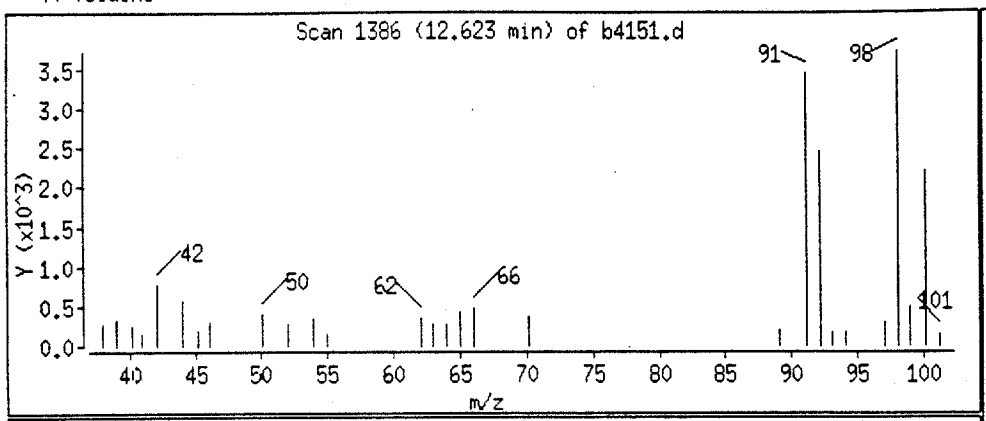
Sample ID :

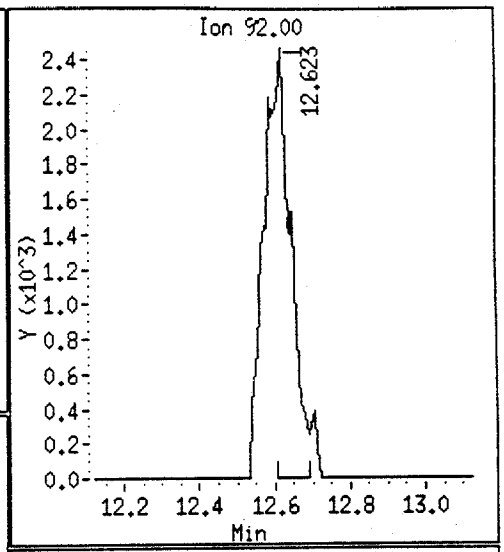
Column phase : J&W DB_624

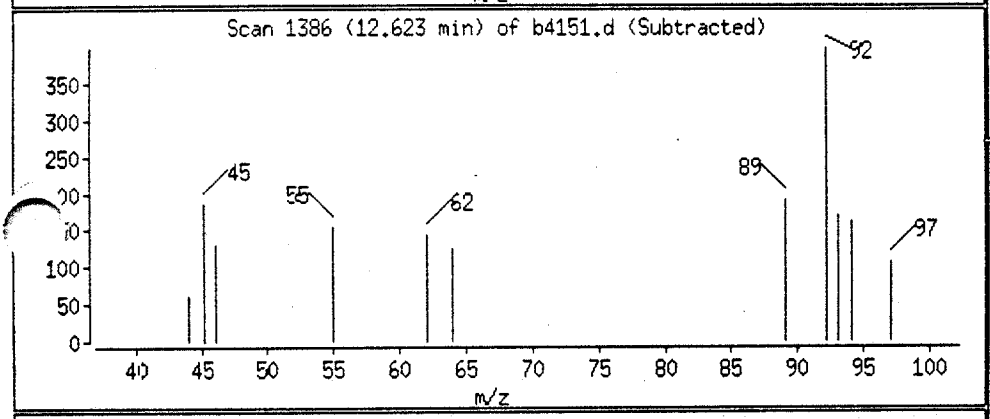
Column diameter : 0.53

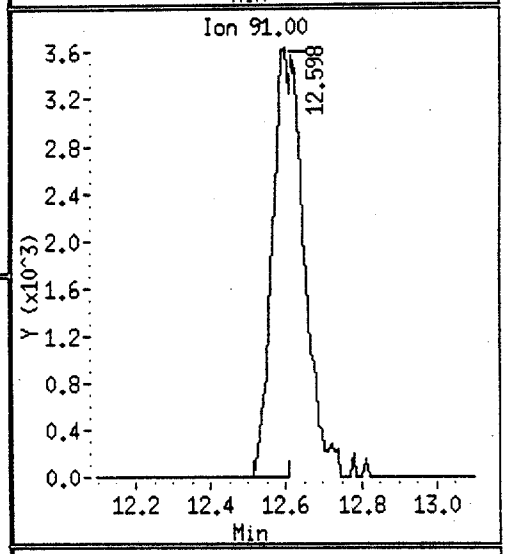
Volume Injected (uL) : 0.0

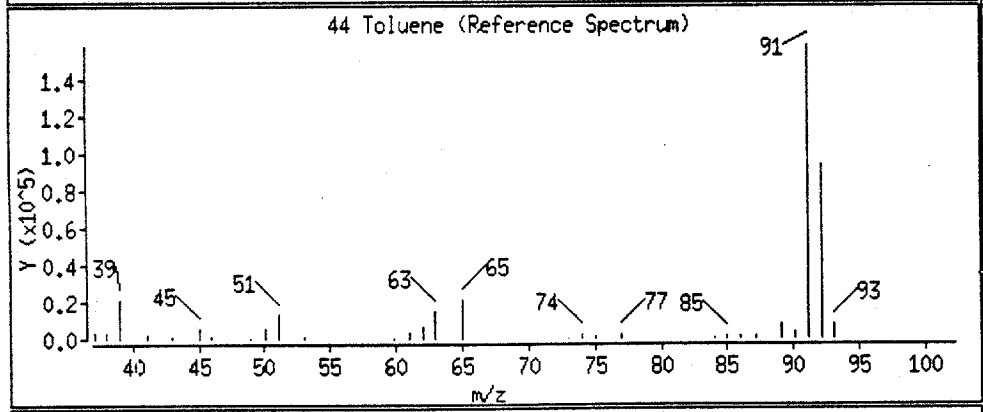
44 Toluene

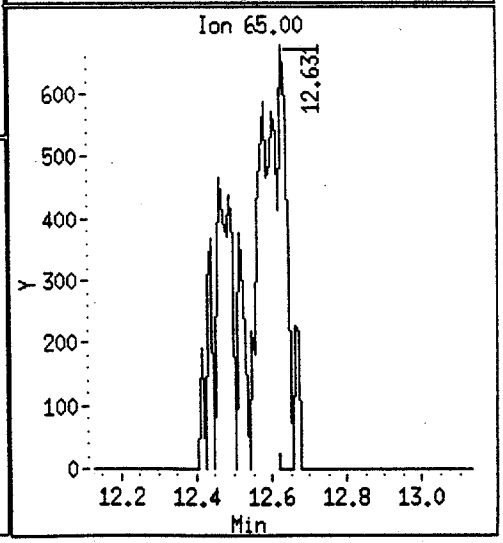


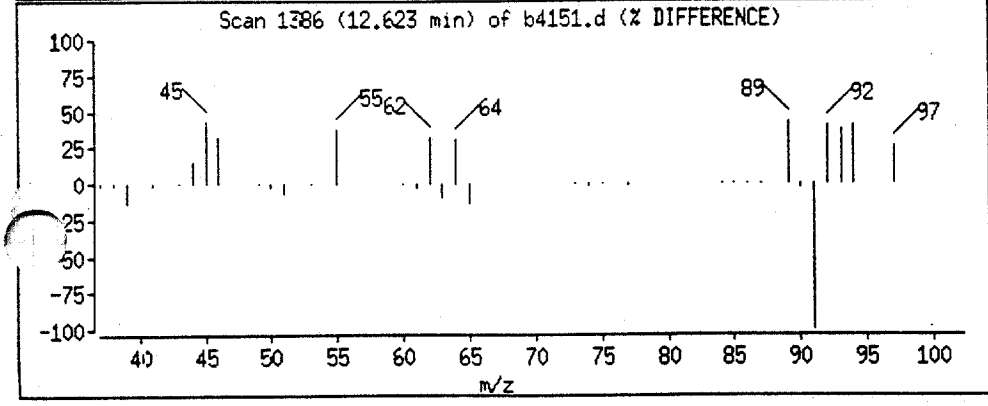












Data File: /chem/aux/msb.i/b062794.b/b4151.d

Date : 27-JUN-94 17:27

Instrument : msb.i

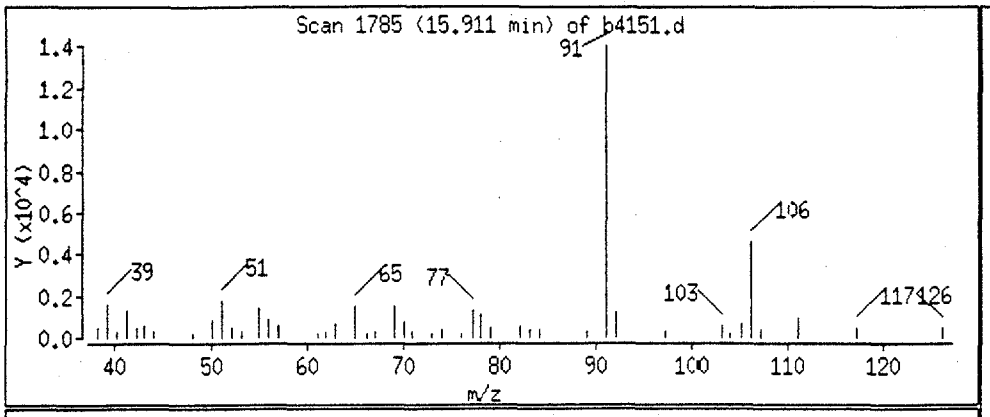
Sample ID :

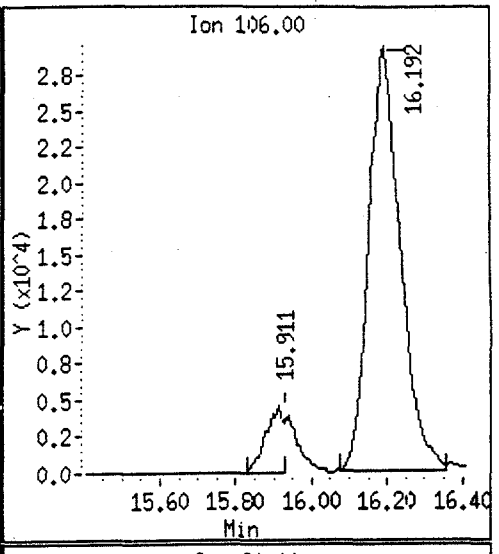
Column phase : J&W DB_624

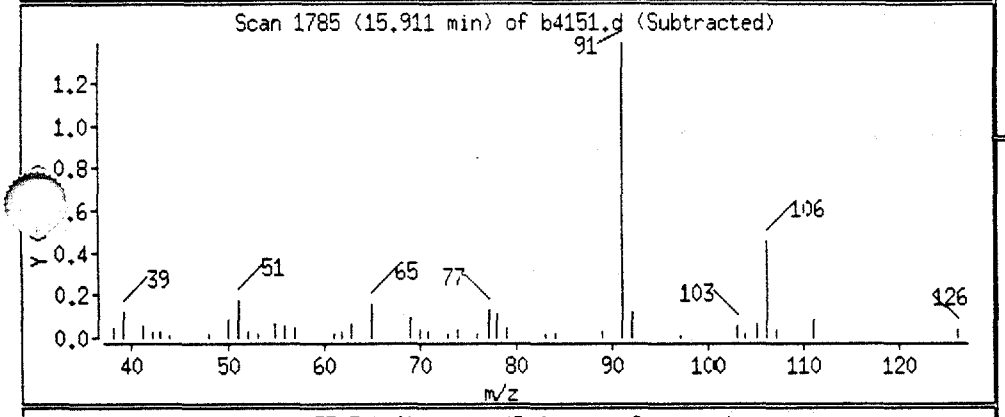
Column diameter : 0.53

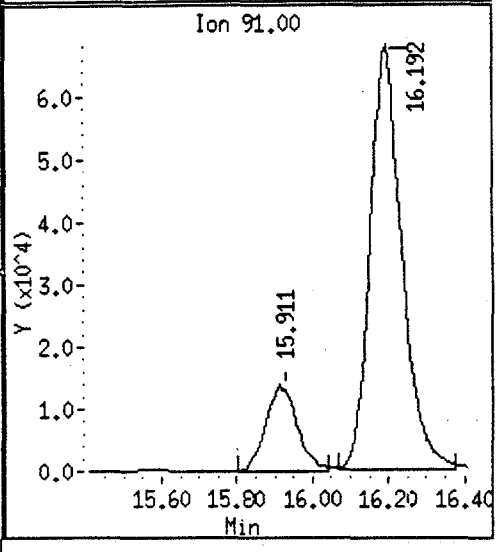
Volume Injected (uL) : 0.0

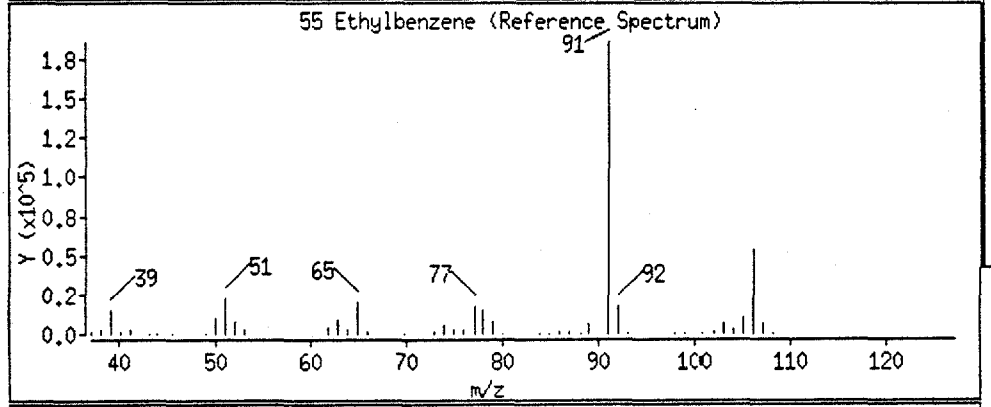
55 Ethylbenzene

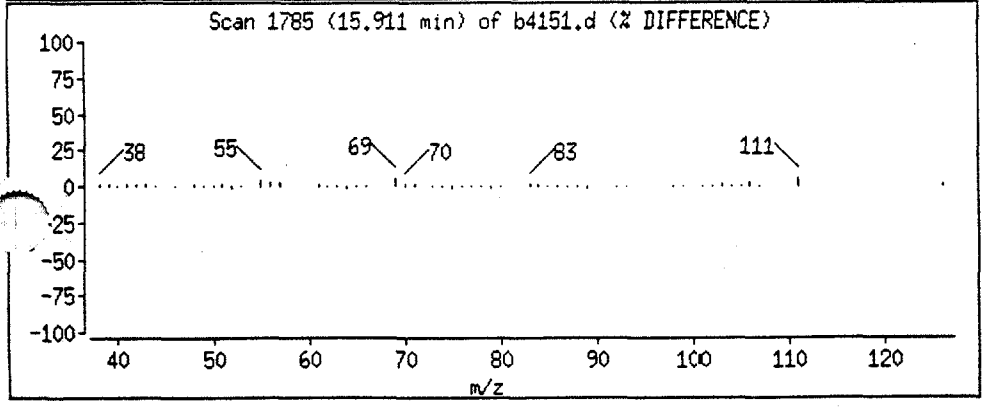












Data File: /chem/aux/msb.i/b062794.b/b4151.d

Date : 27-JUN-94 17:27

Instrument : msb.i

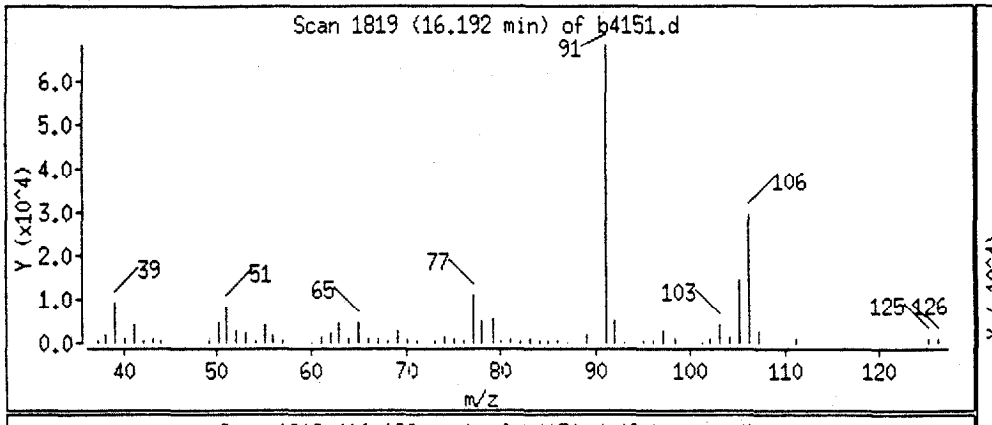
Sample ID :

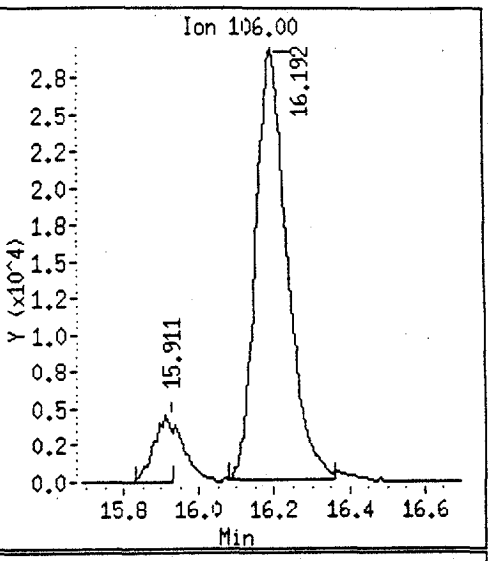
Column phase : J&W DB_624

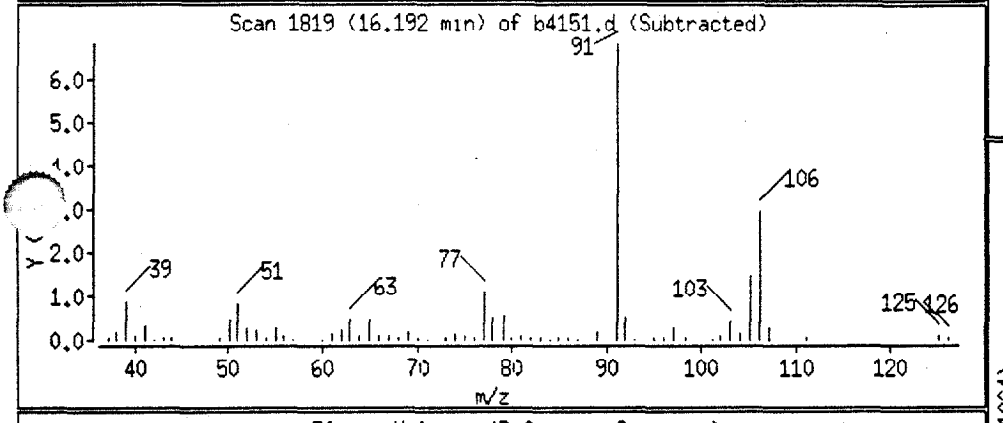
Column diameter : 0.53

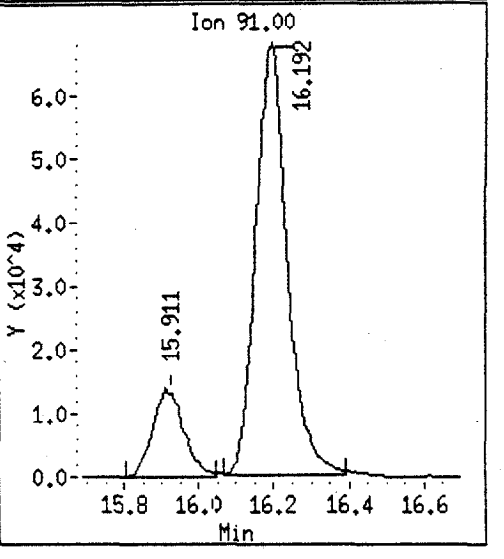
Volume Injected (uL) : 0.0

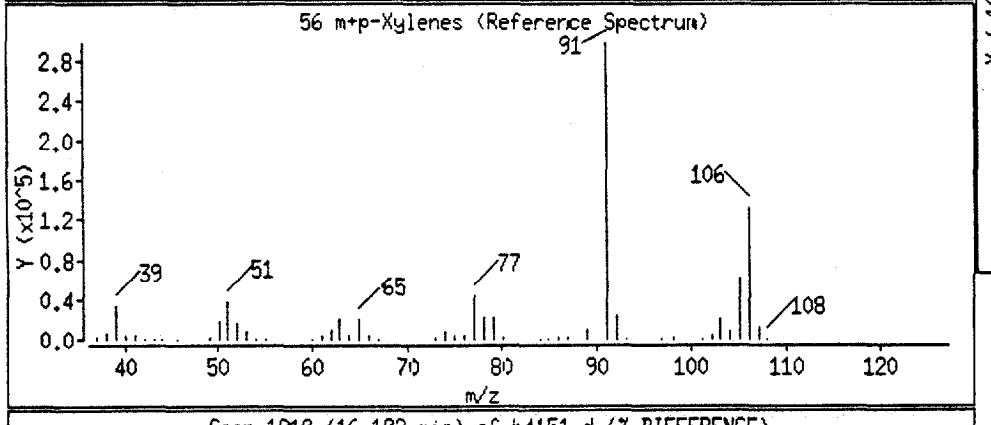
56 m+p-Xylenes

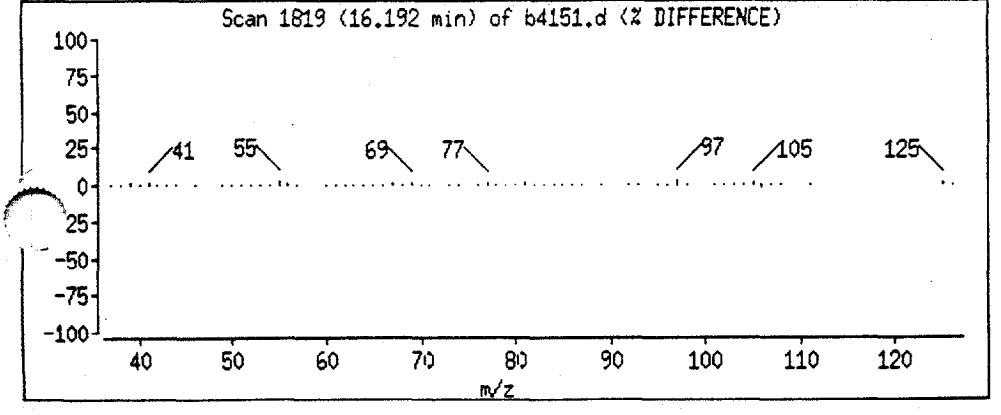












Data File: /chem/aux/msb.i/b062794.b/b4151.d

Date : 27-JUN-94 17:27

Instrument : msb.i

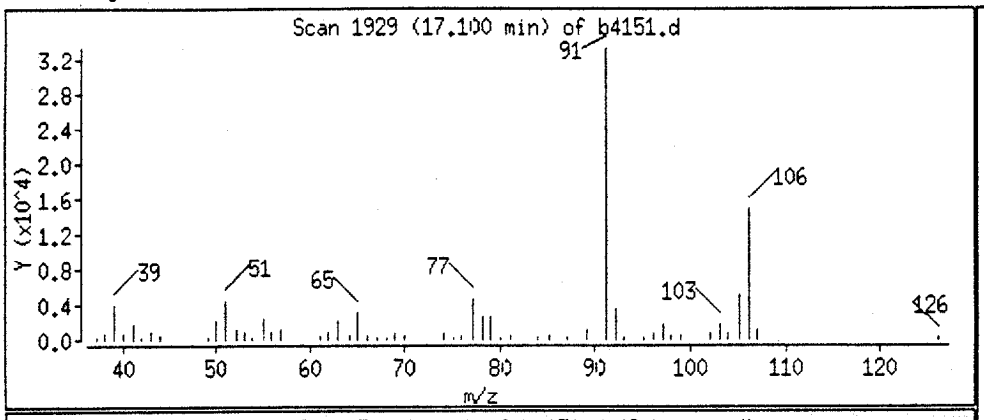
Sample ID :

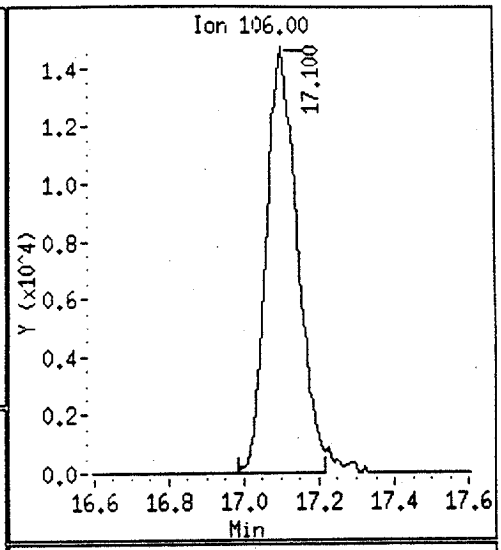
Column phase : J&W DB_624

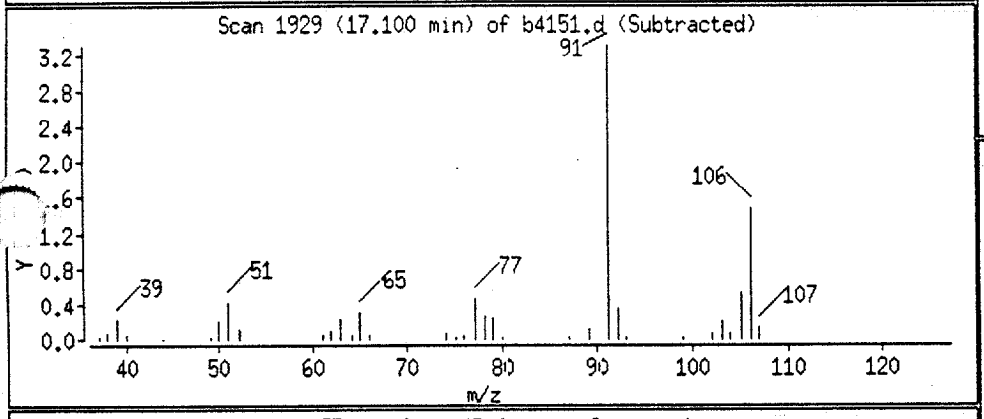
Column diameter : 0.53

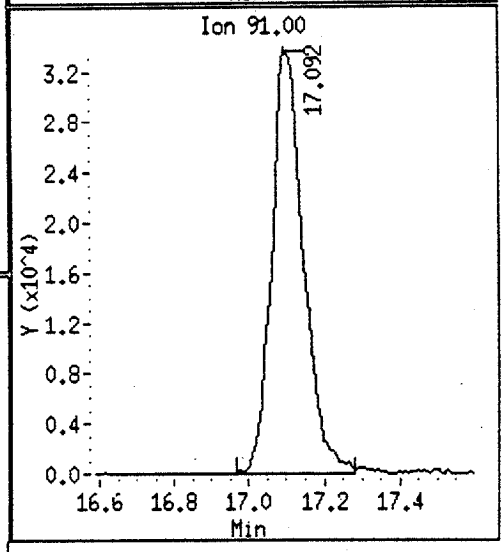
Volume Injected (uL) : 0.0

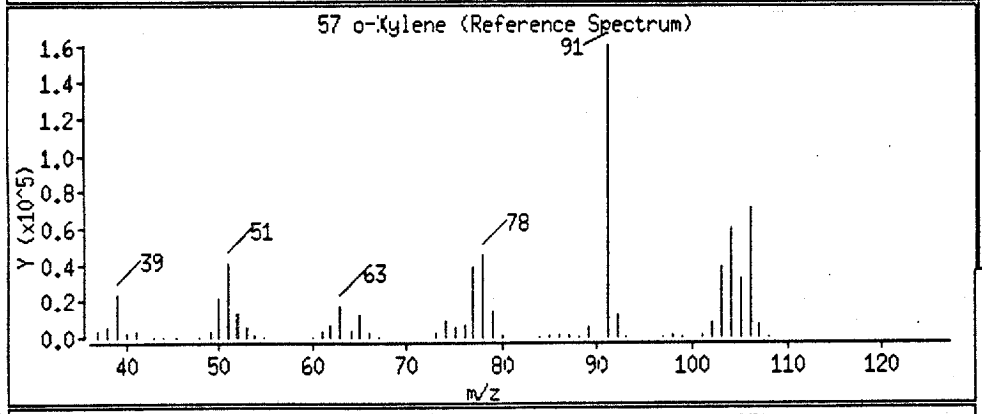
57 o-Xylene

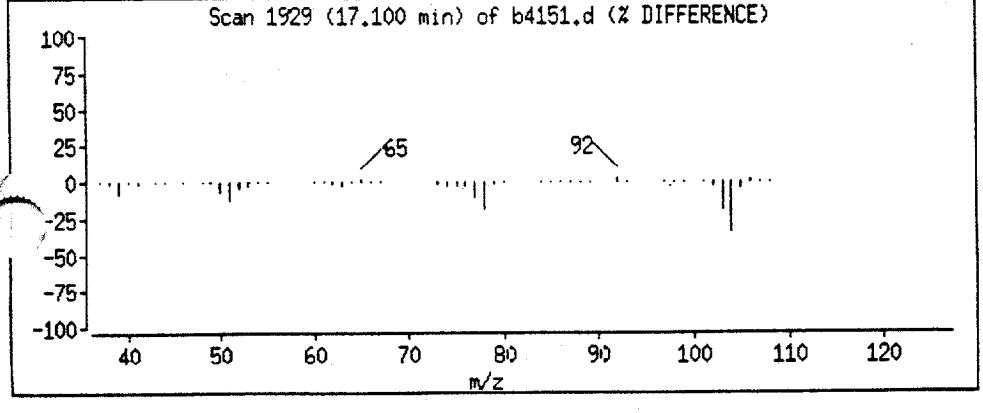












Data File: /chem/aux/msb.i/b062794.b/b4151.d

Date : 27-JUN-94 17:27

Instrument : msb.i

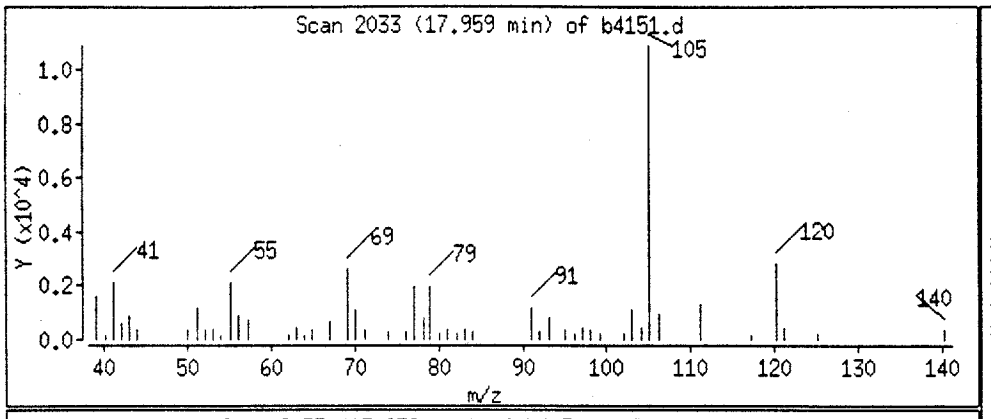
Sample ID :

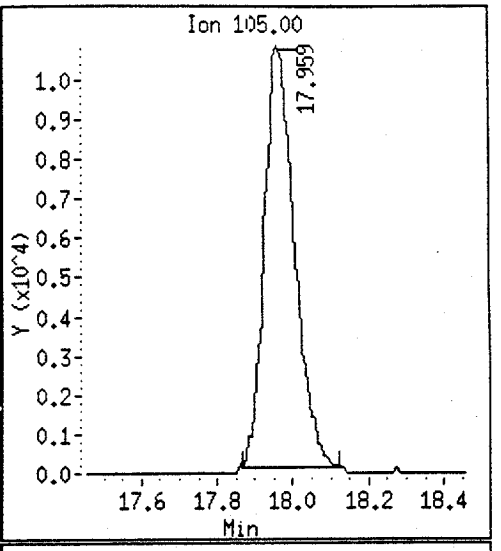
Column phase : J&W DB_624

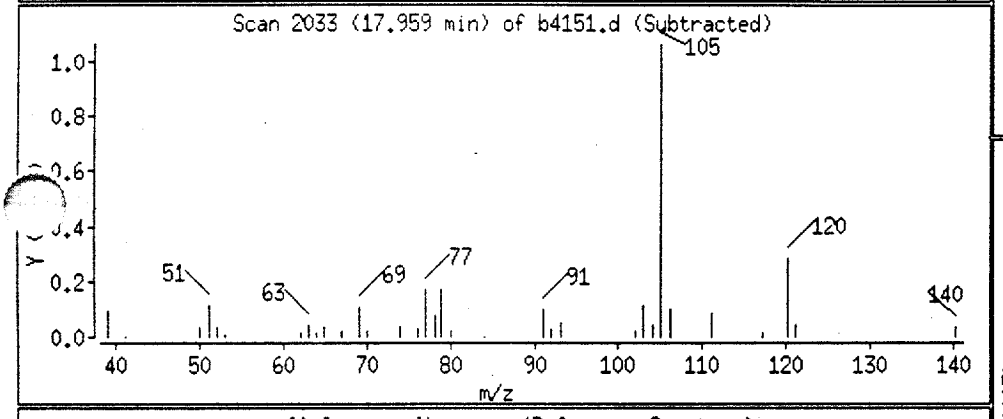
Column diameter : 0.53

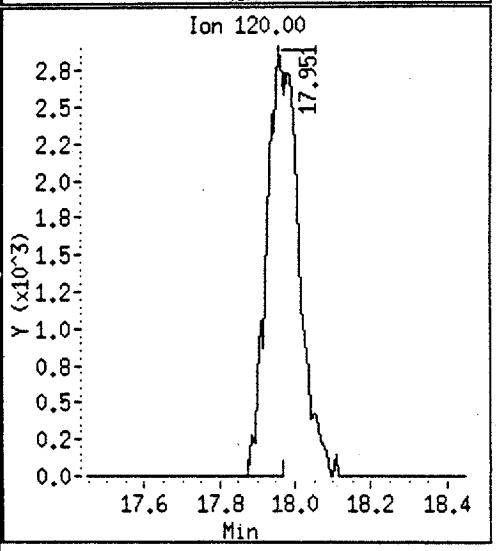
Volume Injected (uL) : 0.0

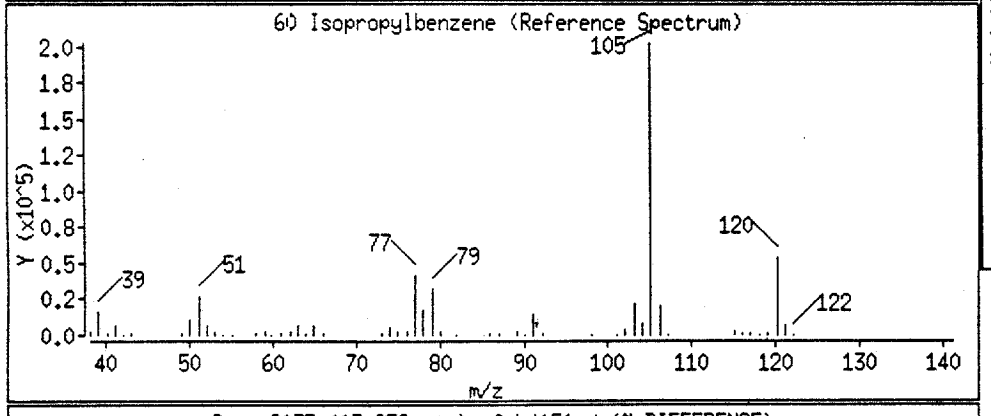
60 Isopropylbenzene

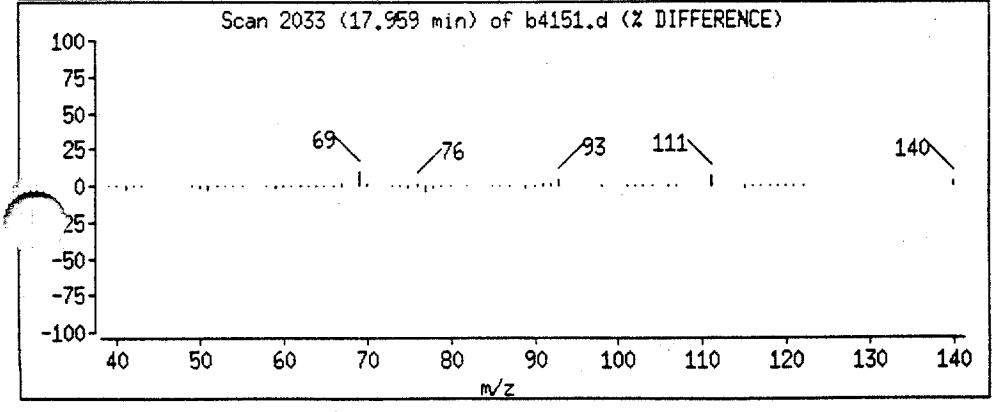












Data File: /chem/aux/msb.i/b062794.b/b4151.d

Date : 27-JUN-94 17:27

Instrument : msb.i

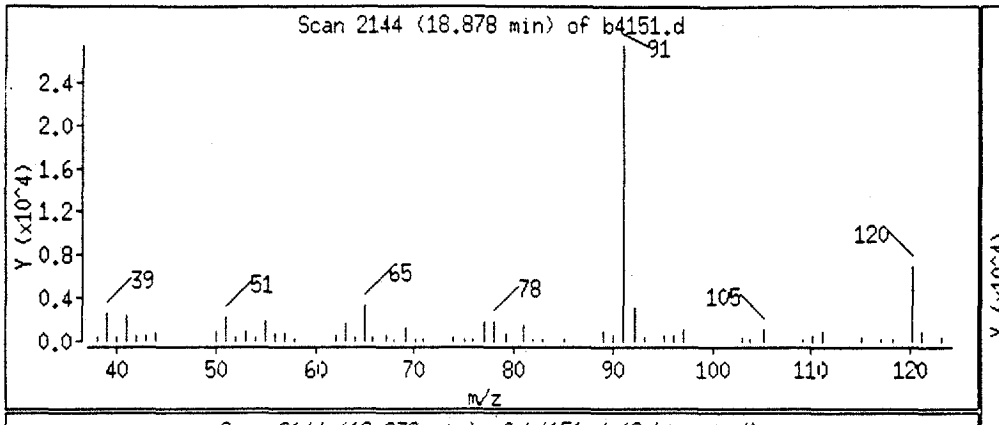
Sample ID :

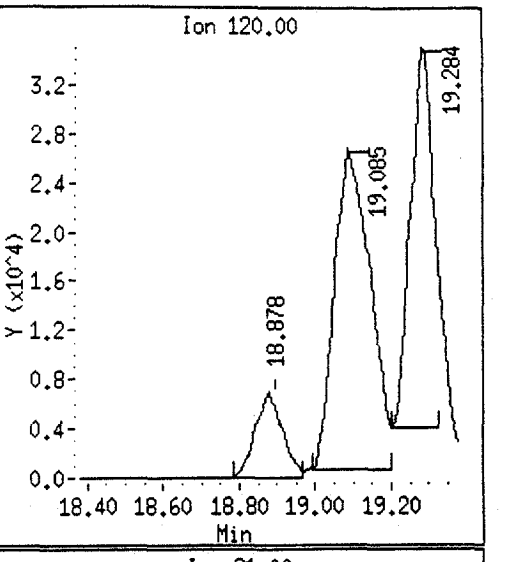
Column phase : J&W DB_624

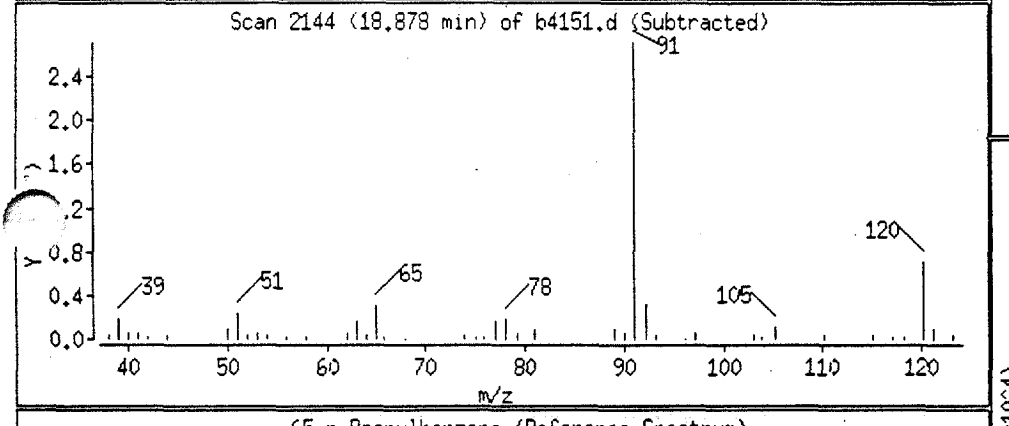
Column diameter : 0.53

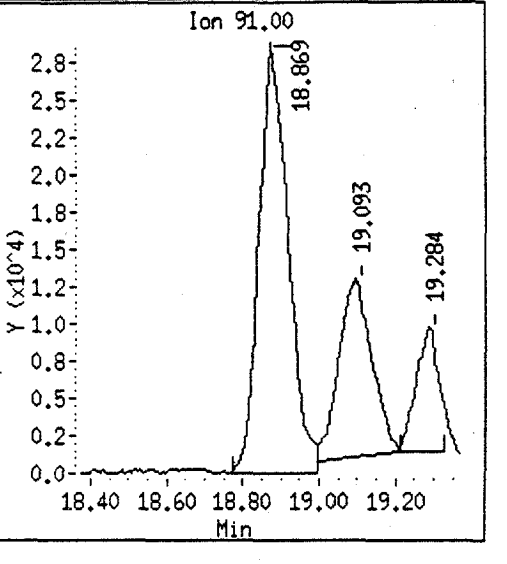
Volume Injected (uL) : 0.0

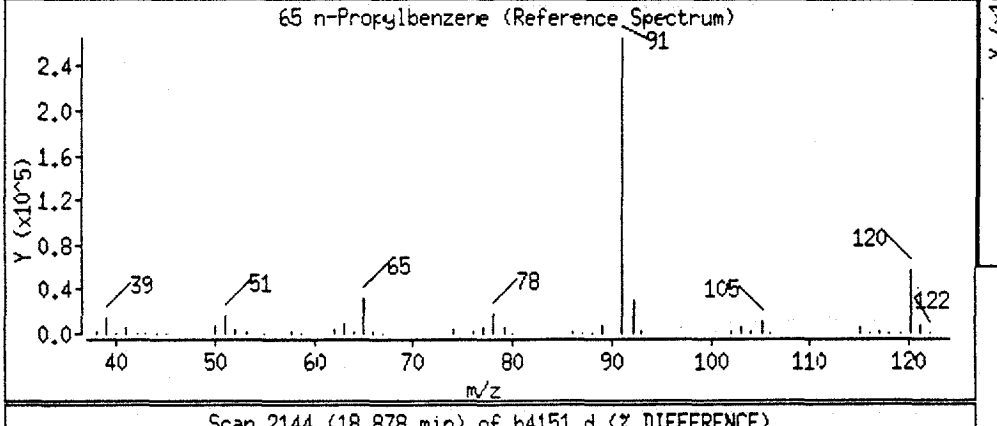
65 n-Propylbenzene

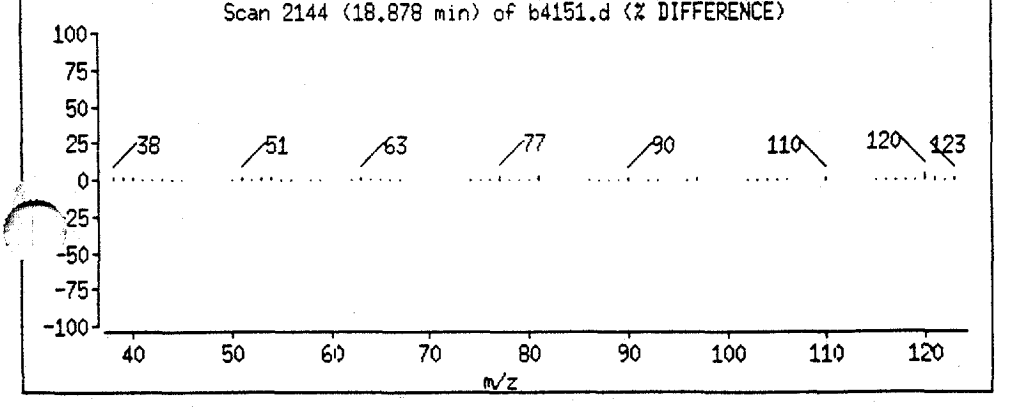












Data File: /chem/aux/msb.i/b062794.b/b4151.d

Date : 27-JUN-94 17:27

Instrument : msb.i

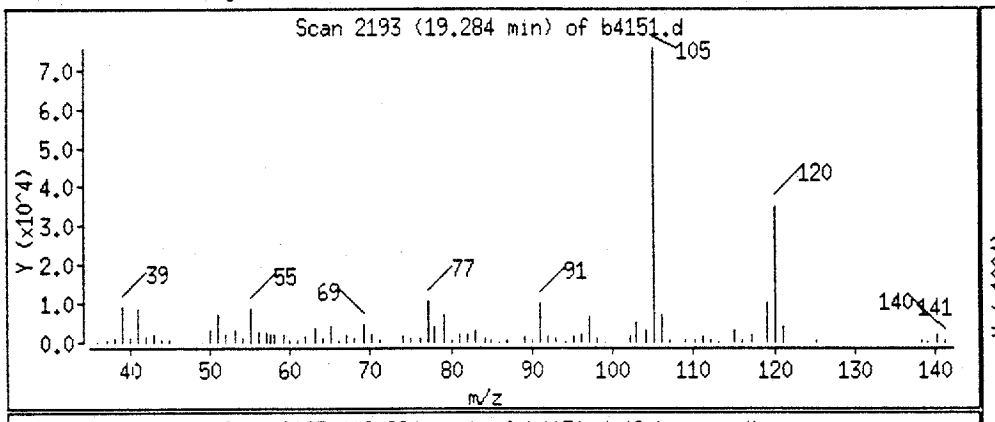
Sample ID :

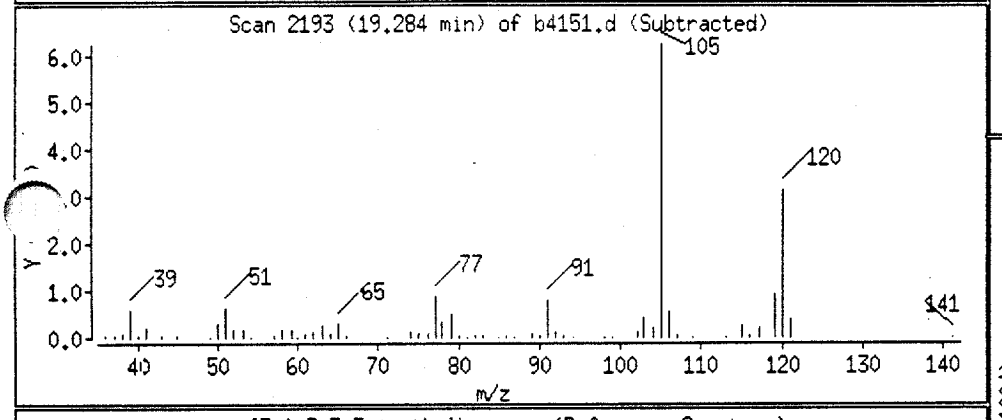
Column phase : J&W DB_624

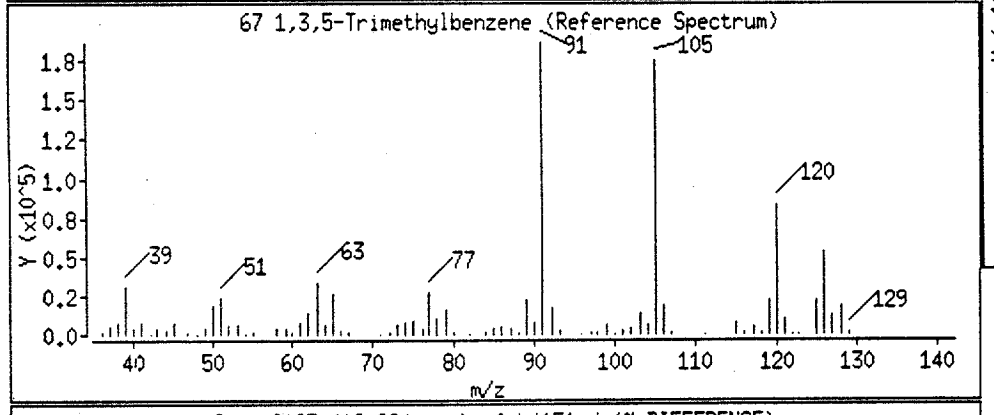
Column diameter : 0.53

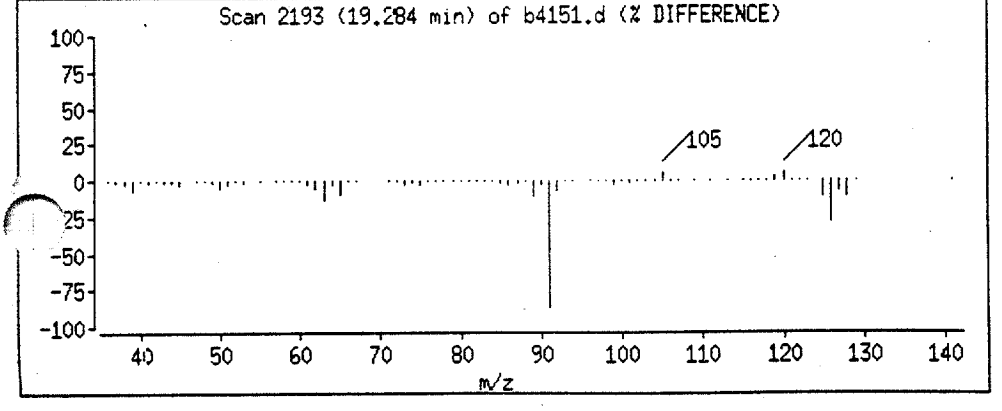
Volume Injected (uL) : 0.0

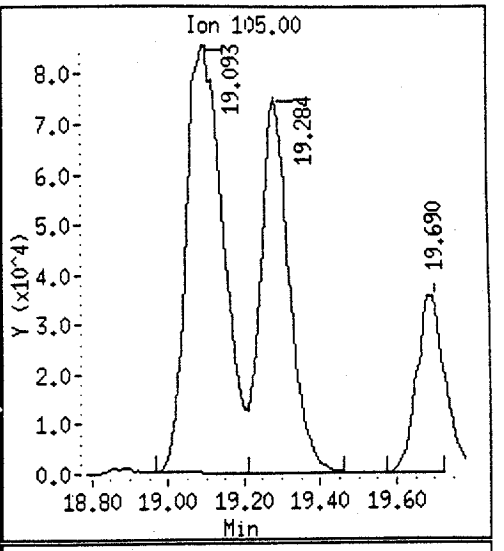
67 1,3,5-Trimethylbenzene

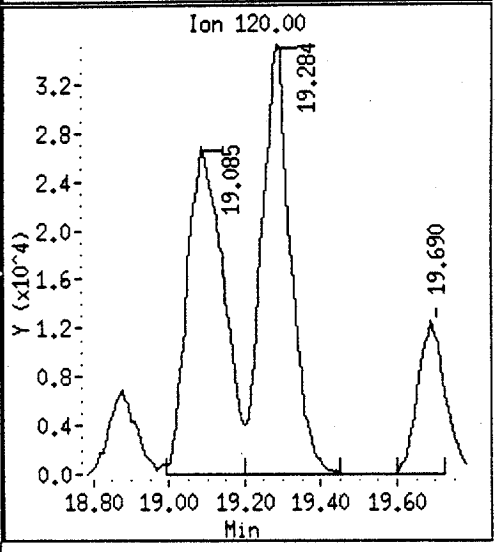












Data File: /chem/aux/msb.i/b062794.b/b4151.d

Date : 27-JUN-94 17:27

Instrument : msb.i

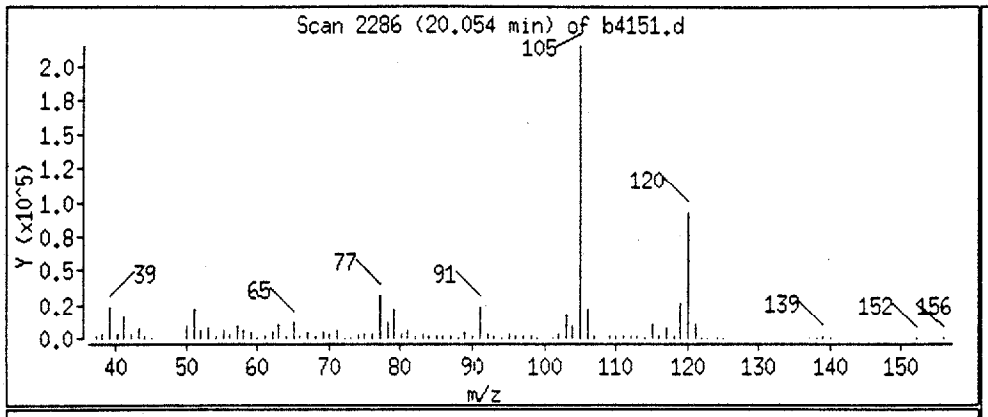
Sample ID :

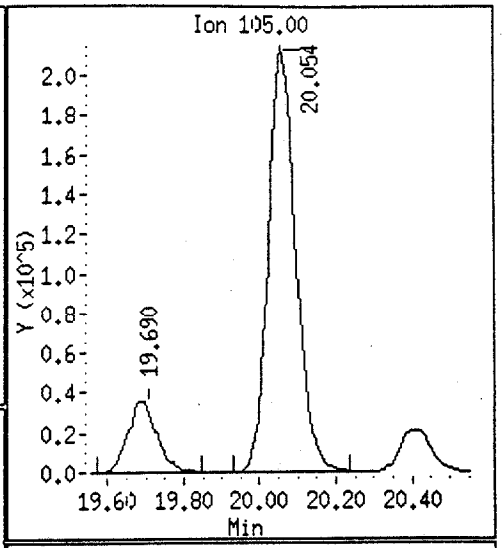
Column phase : J&W DB_624

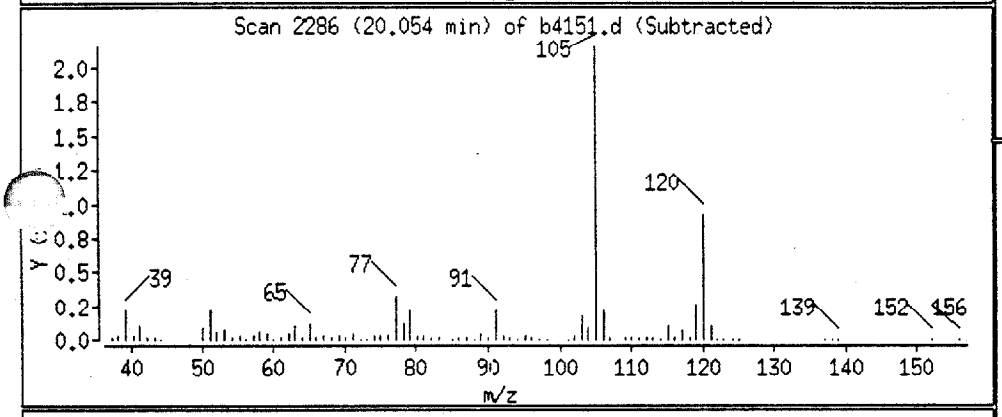
Column diameter : 0.53

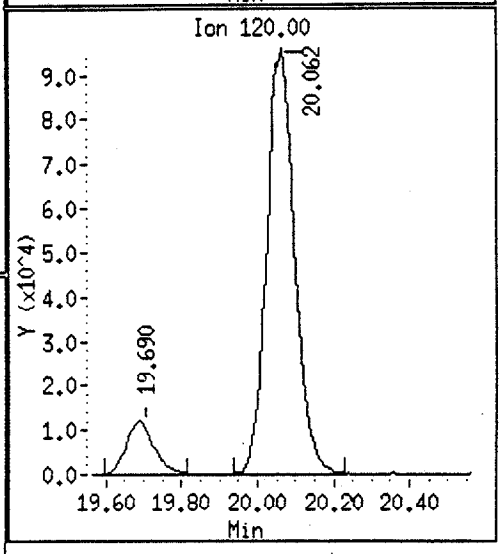
Volume Injected (uL) : 0.0

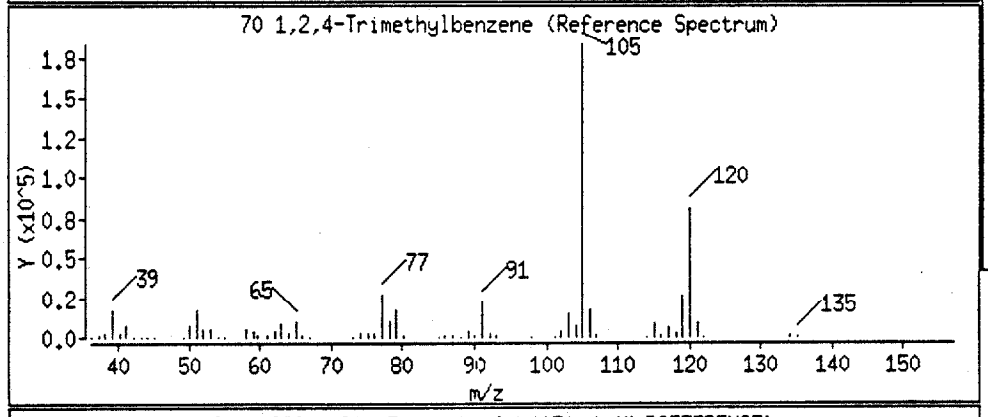
70 1,2,4-Trimethylbenzene

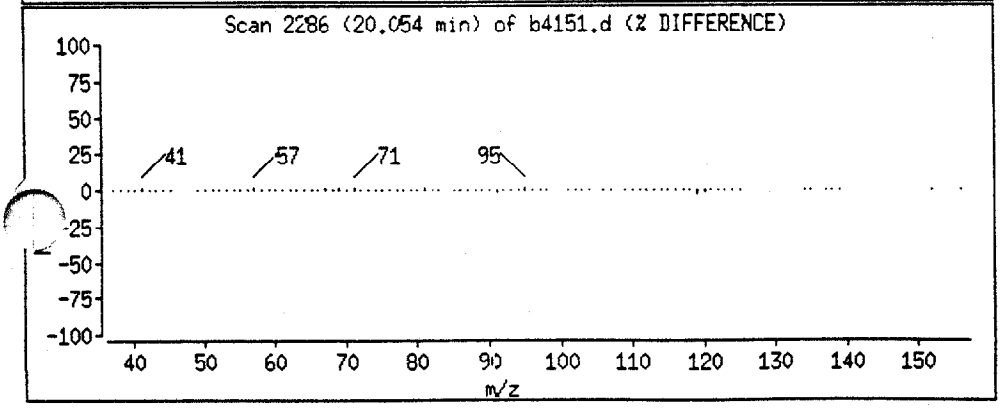












Data File: /chem/aux/msb.i/b062794.b/b4151.d

Date : 27-JUN-94 17:27

Instrument : msb.i

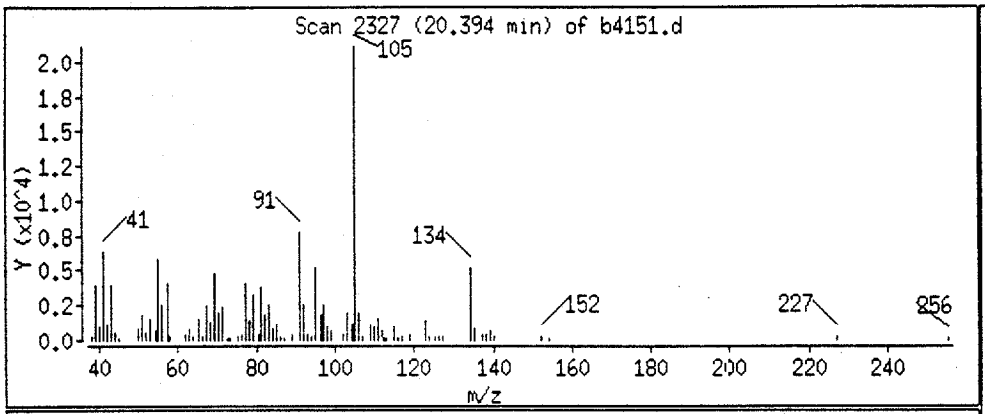
Sample ID :

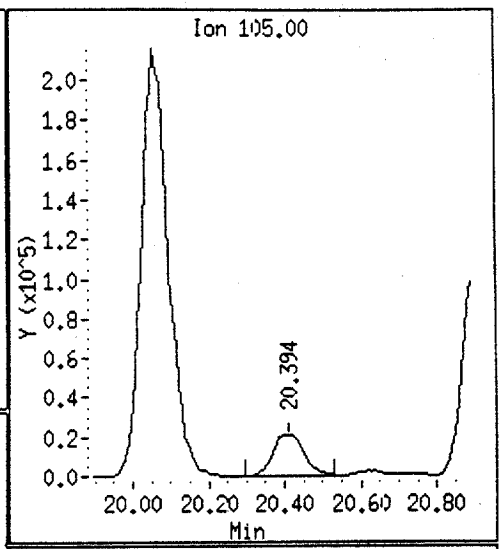
Column phase : J&W DB_624

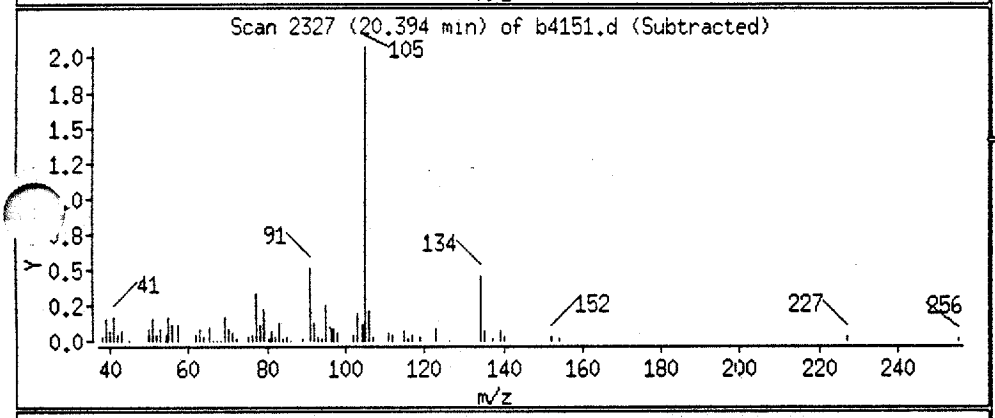
Column diameter : 0.53

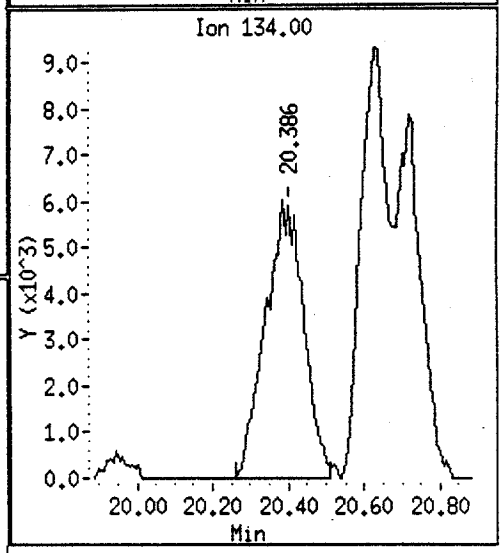
Volume Injected (uL) : 0.0

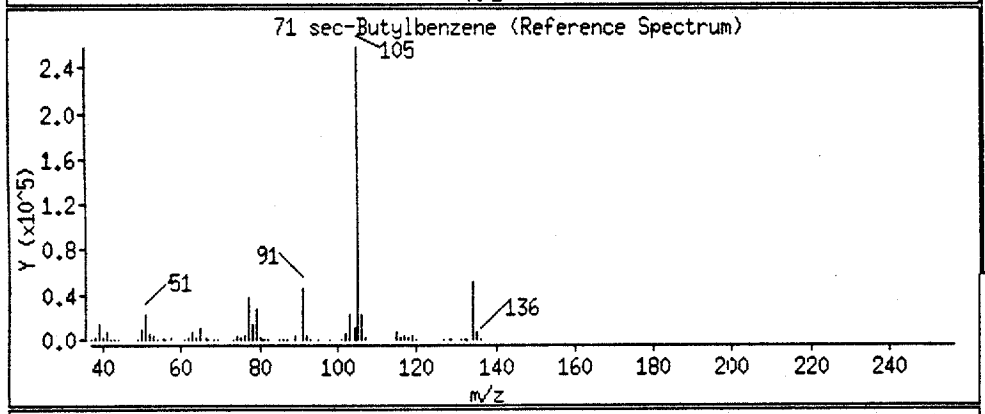
71 sec-Butylbenzene

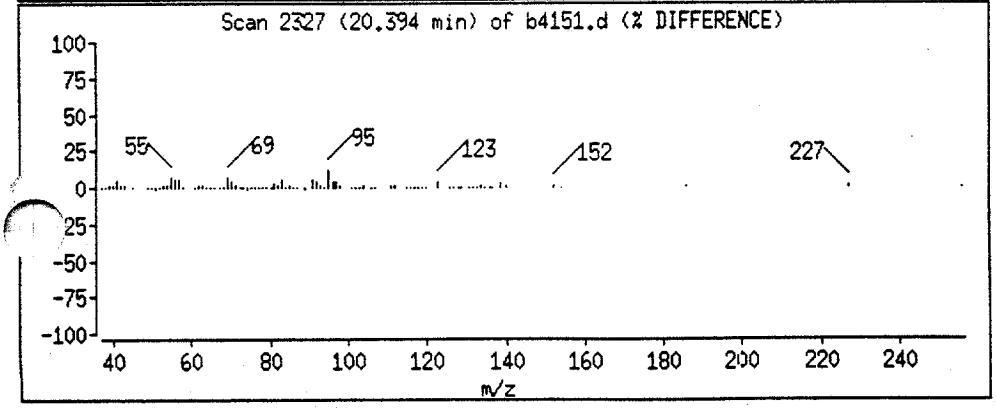












Data File: /chem/aux/msb.i/b062794.b/b4151.d

Date : 27-JUN-94 17:27

Instrument : msb.i

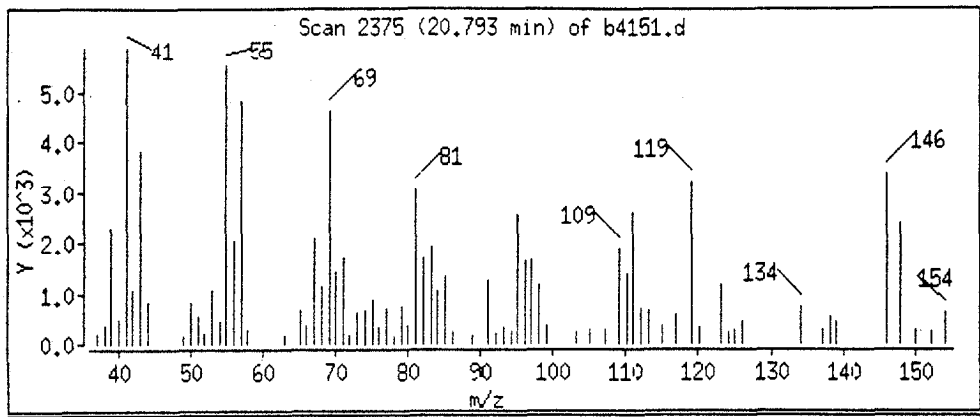
Sample ID :

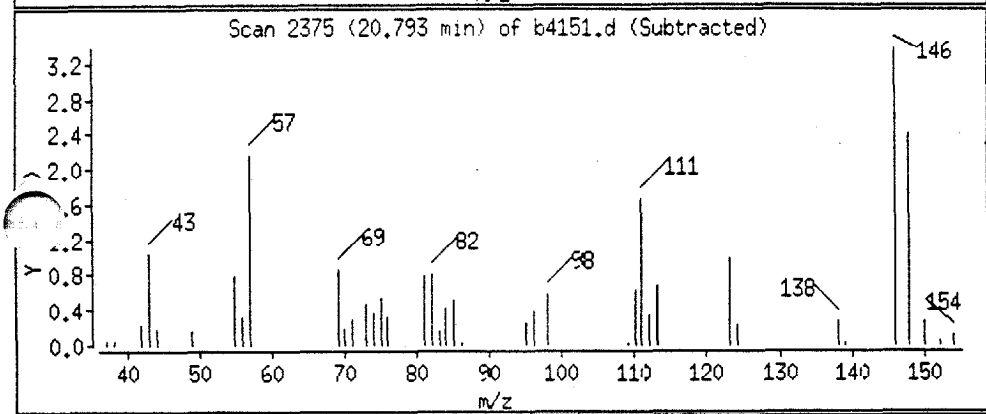
Column phase : J&W DB_624

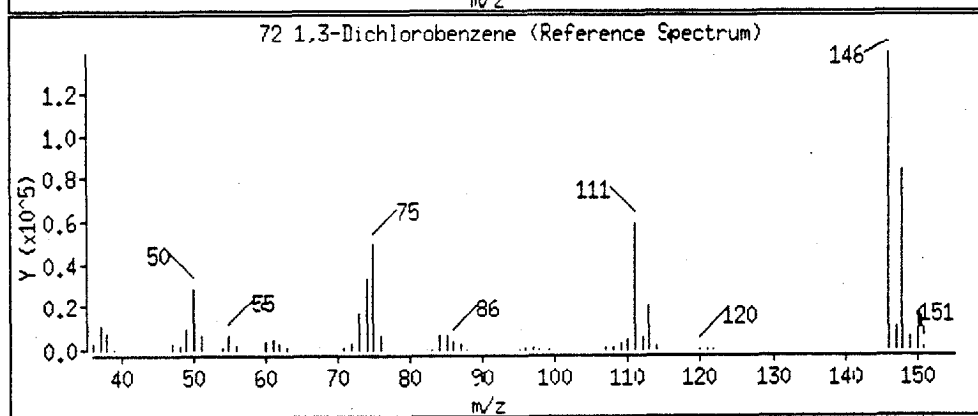
Column diameter : 0.53

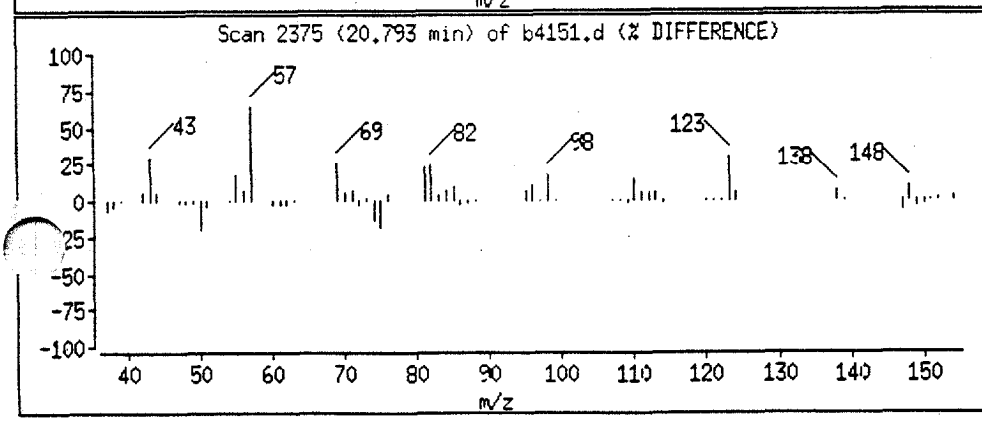
Volume Injected (uL) : 0.0

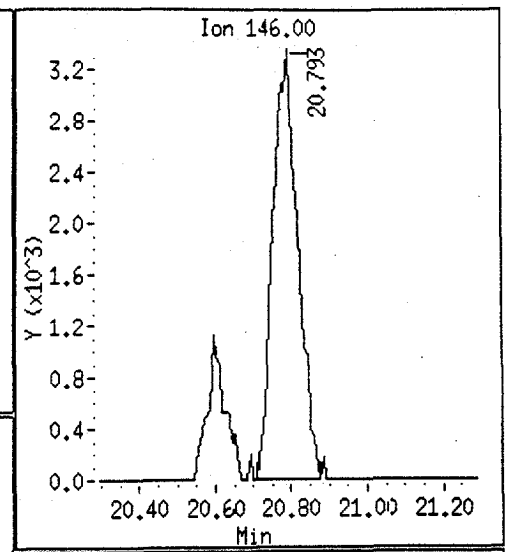
72 1,3-Dichlorobenzene

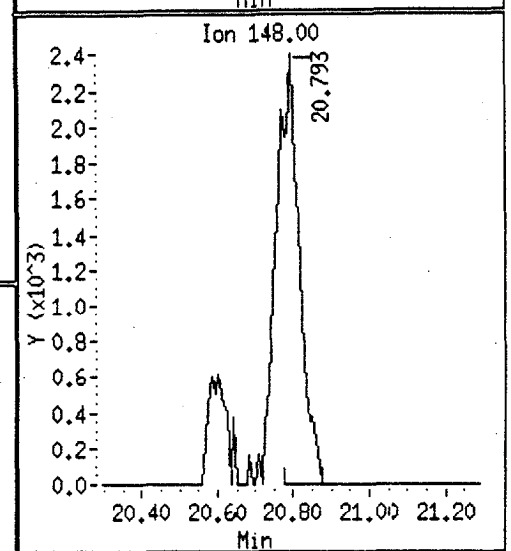


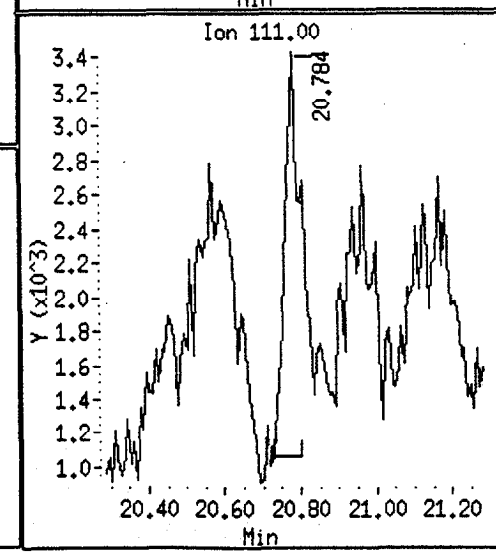












Data File: /chem/aux/msb.i/b062794.b/b4151.d

Date : 27-JUN-94 17:27

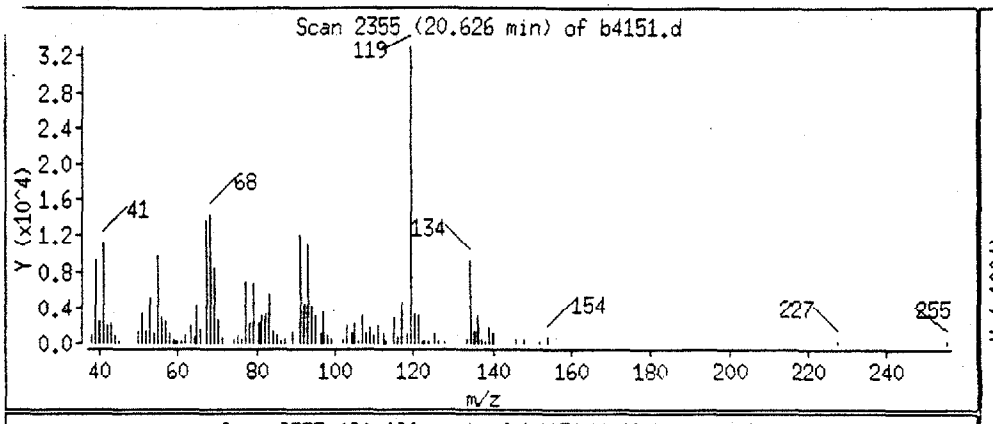
Instrument : msb.i

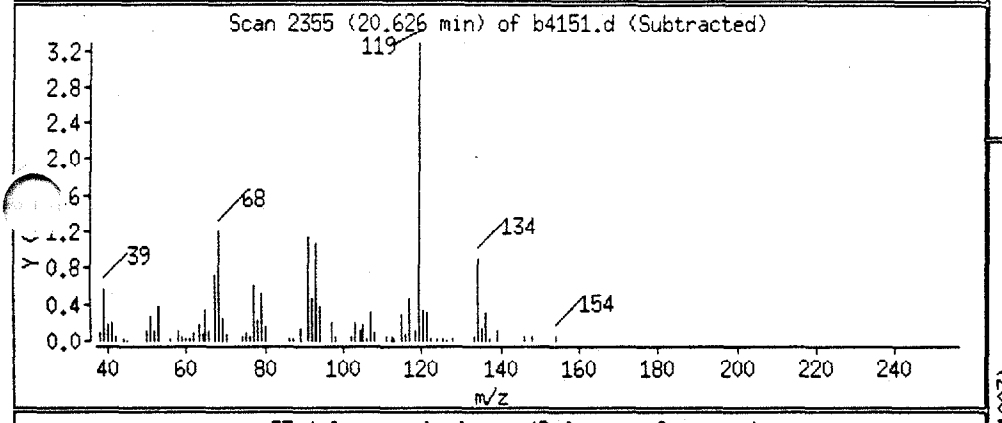
Sample ID :

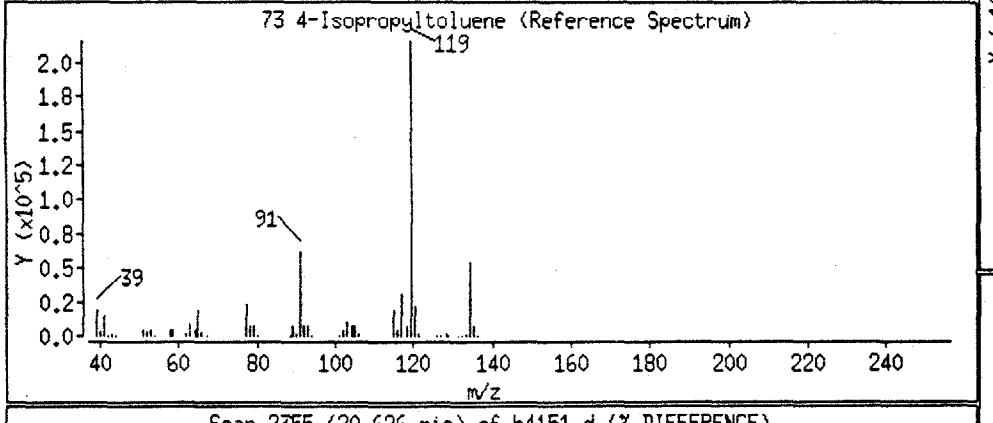
Column phase : J&W DB_624 Column diameter : 0.53

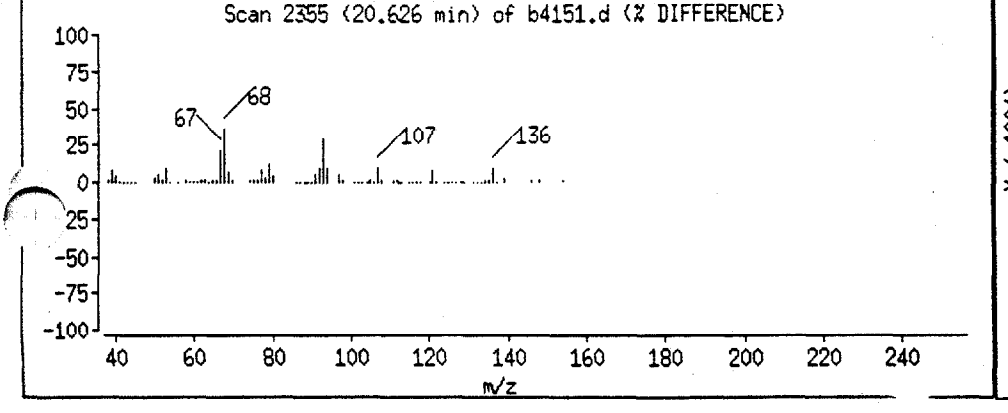
Volume Injected (uL) : 0.0

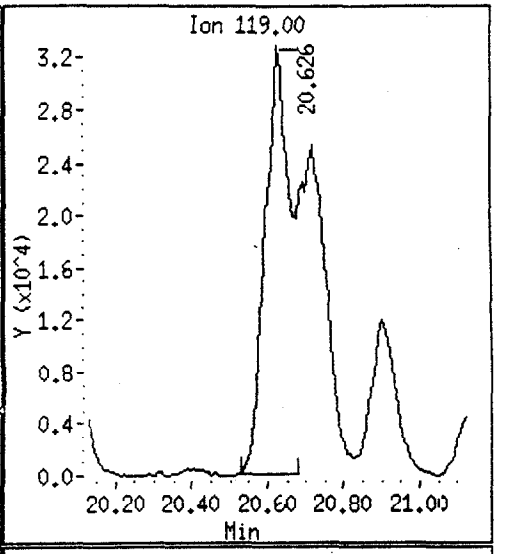
73 4-Isopropyltoluene

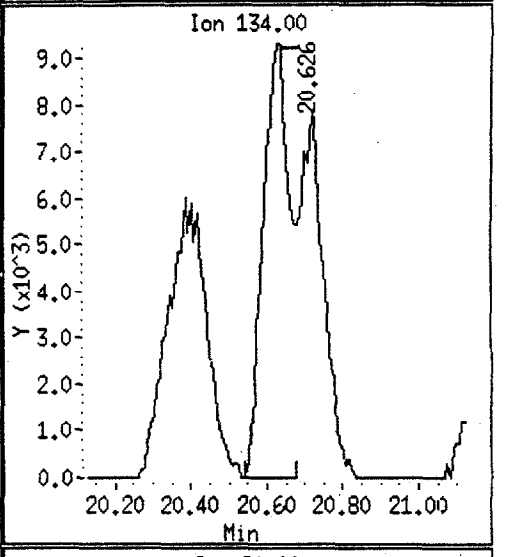


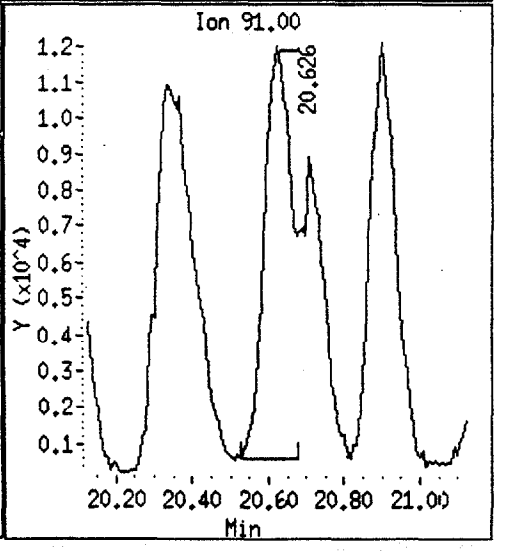












Data File: /chem/aux/msb.i/b062794.b/b4151.d

Date : 27-JUN-94 17:27

Instrument : msb.i

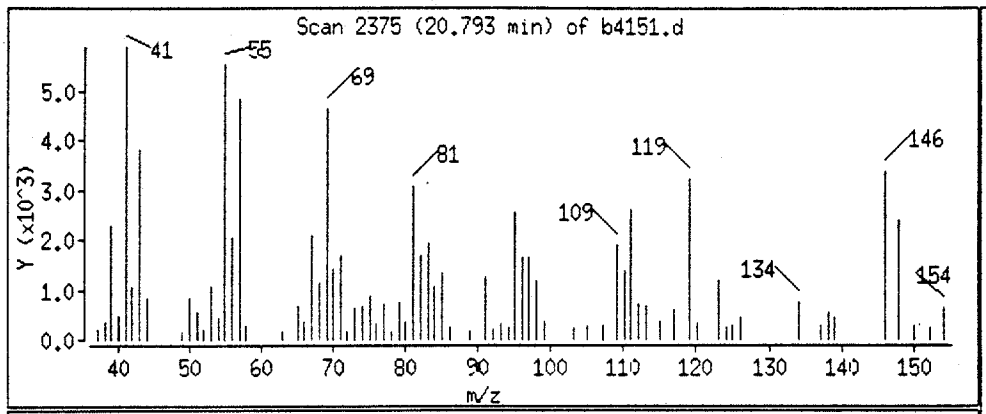
Sample ID :

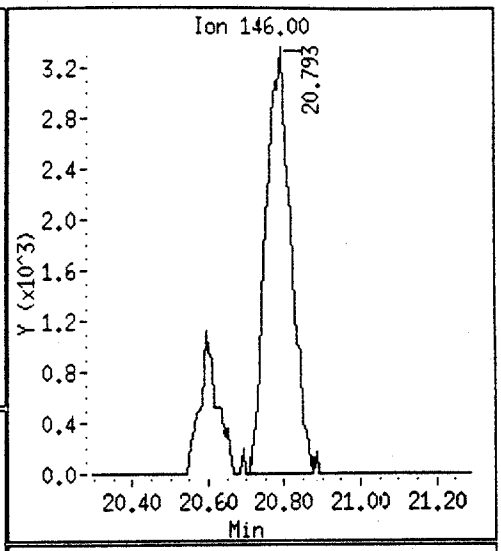
Column phase : J&W DB_624

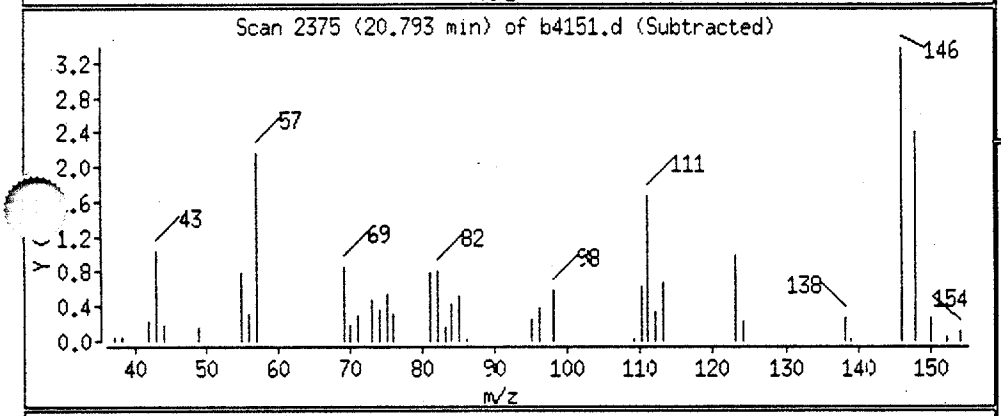
Column diameter : 0.53

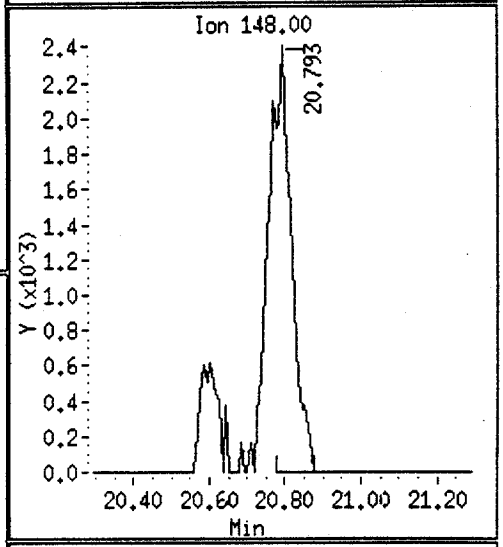
Volume Injected (uL) : 0.0

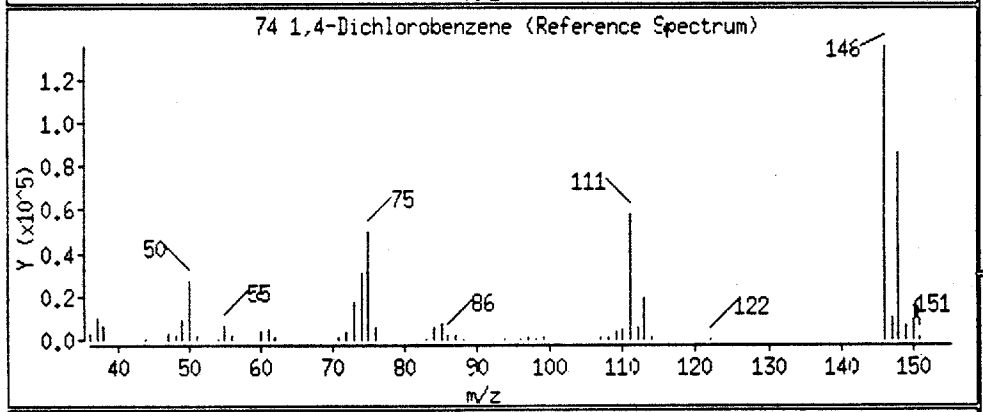
74 1,4-Dichlorobenzene

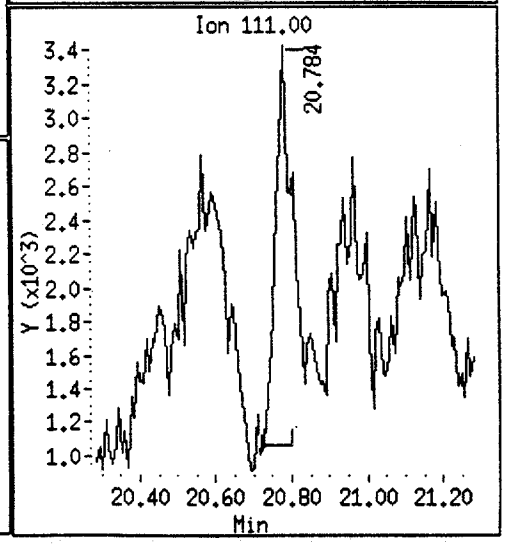


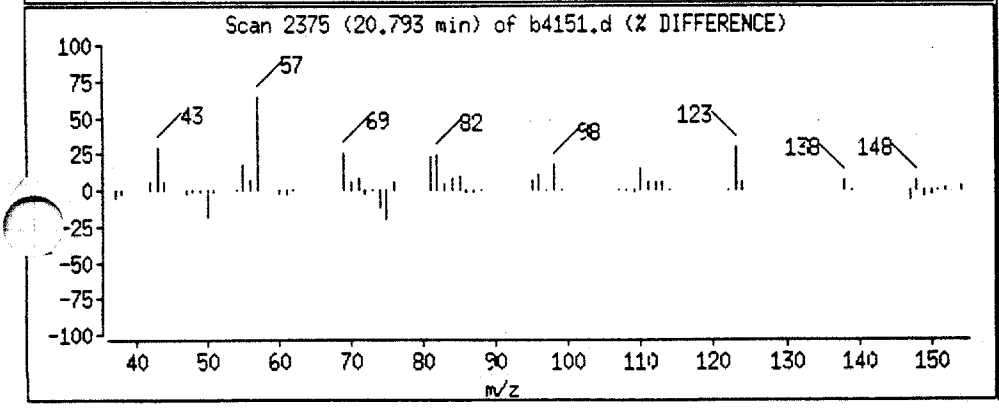












Data File: /chem/aux/msb.i/b062794.b/b4151.d

Date : 27-JUN-94 17:27

Instrument : msb.i

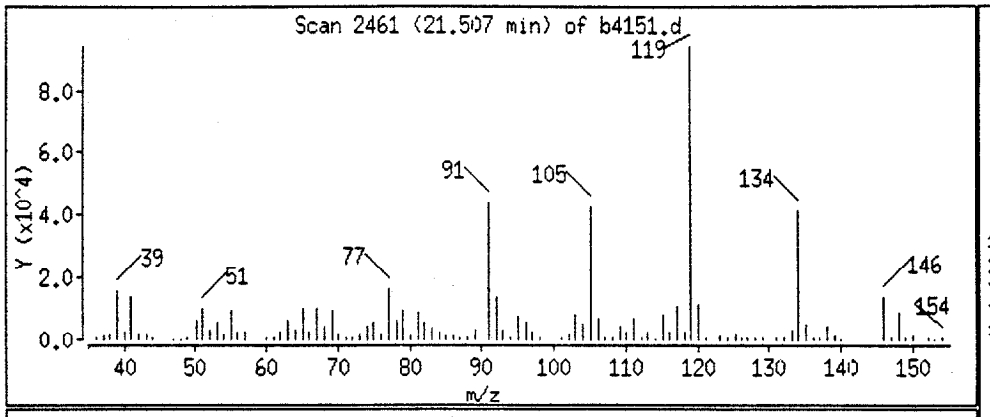
Sample ID :

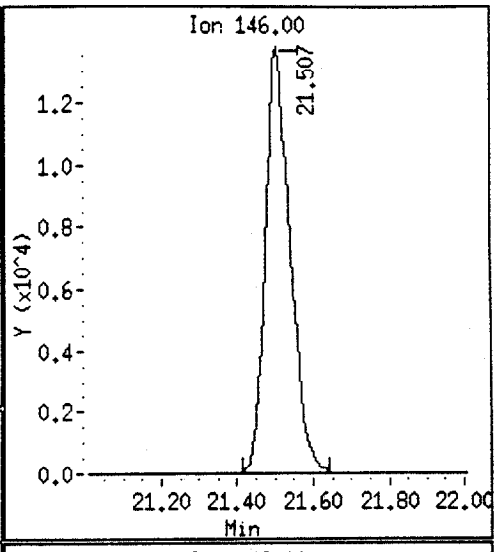
Column phase : J&W DB_624

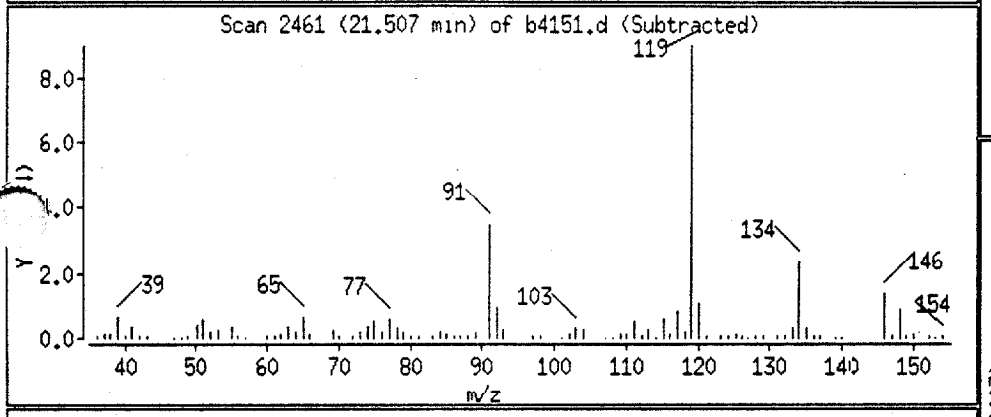
Column diameter : 0.53

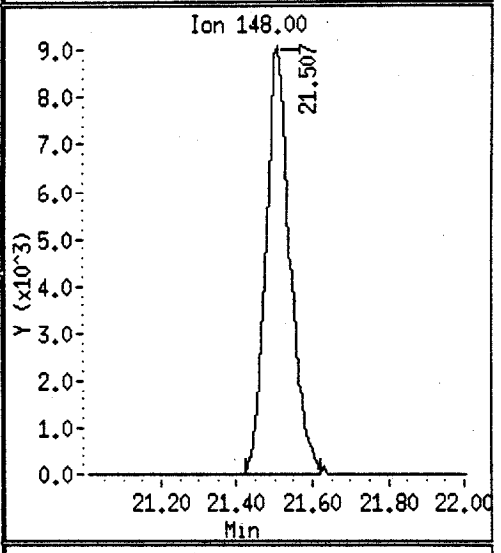
Volume Injected (uL) : 0.0

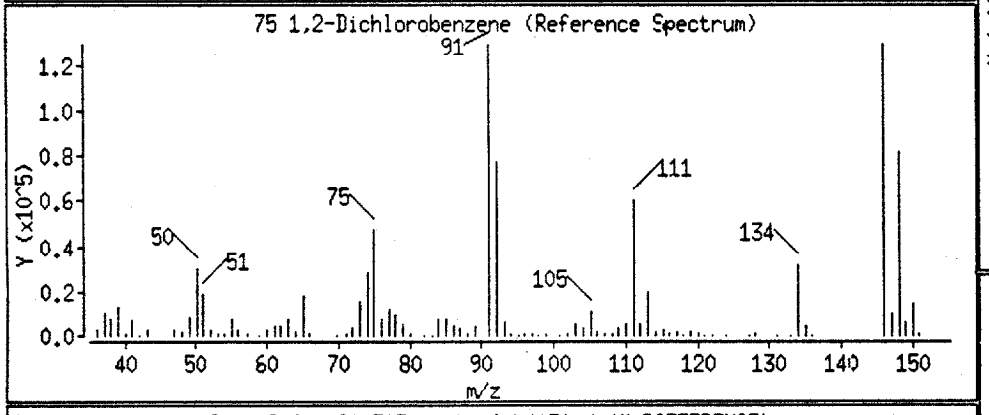
75 1,2-Dichlorobenzene

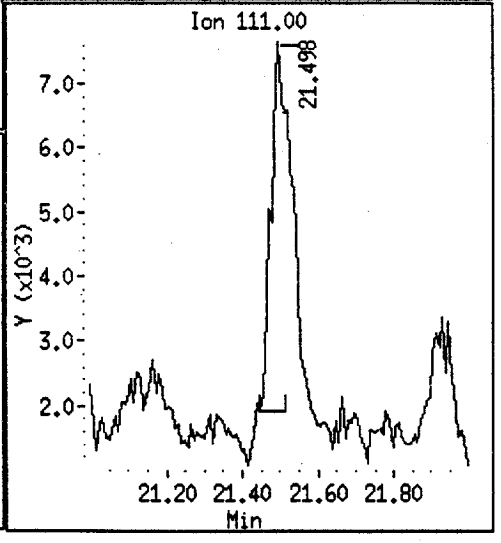


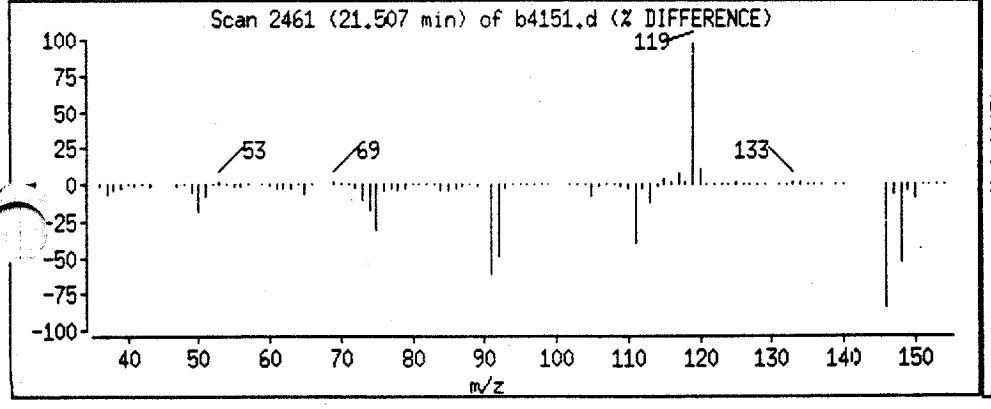












Data File: /chem/aux/msb.i/b062794.b/b4151.d

Date : 27-JUN-94 17:27

Instrument : msb.i

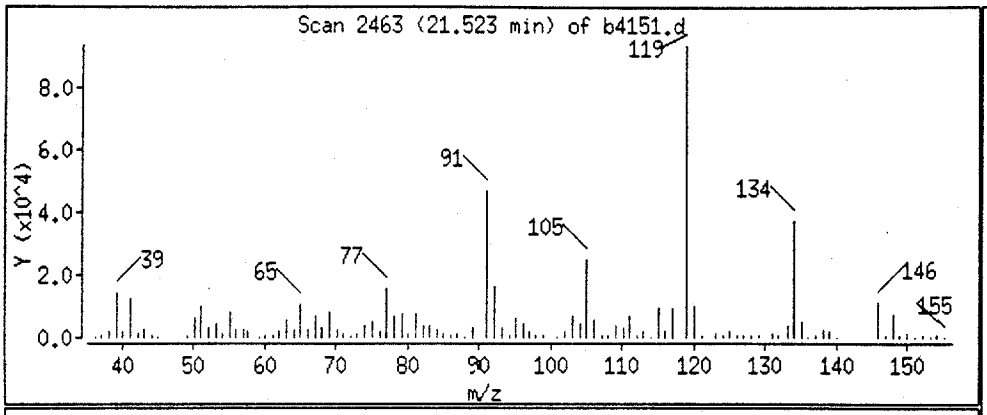
Sample ID :

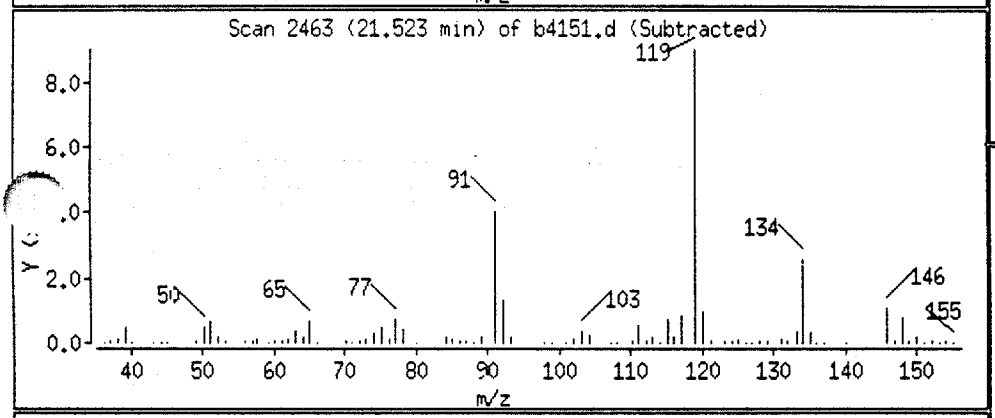
Column phase : J&W DB_624

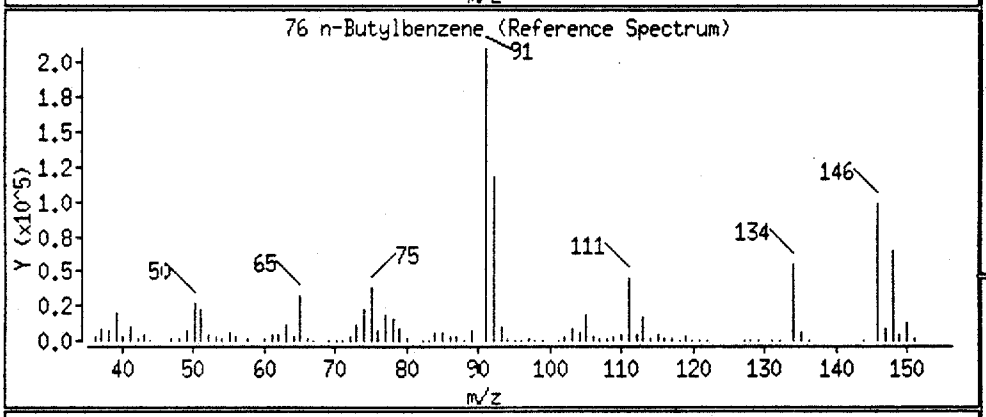
Column diameter : 0.53

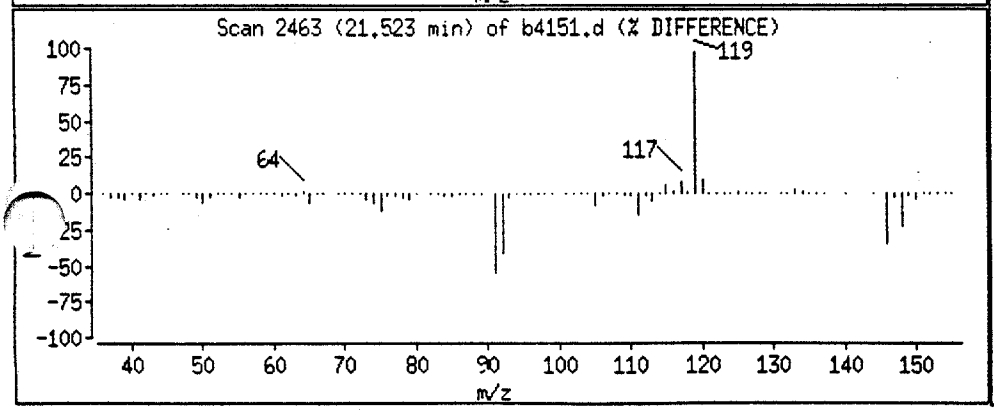
Volume Injected (uL) : 0.0

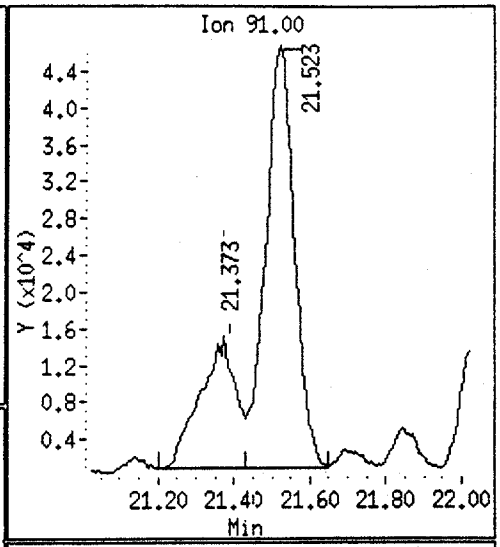
76 n-Butylbenzene

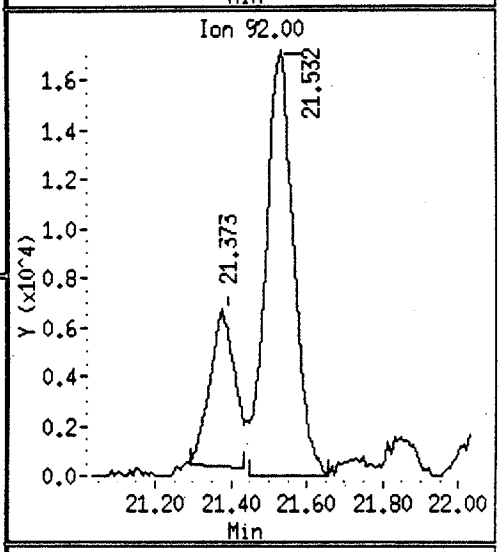


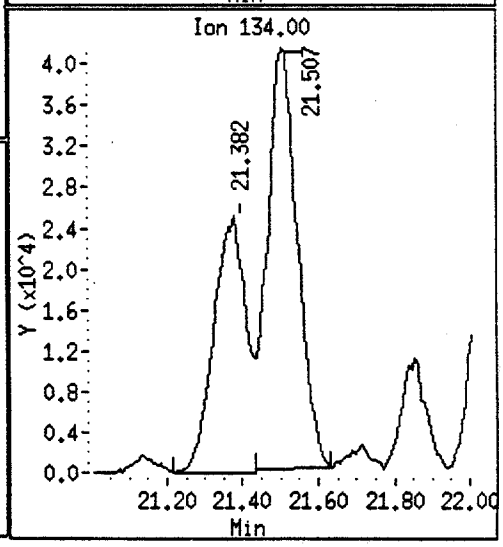












Data File: /chem/aux/msb.i/b062794.b/b4151.d

Date : 27-JUN-94 17:27

Instrument : msb.i

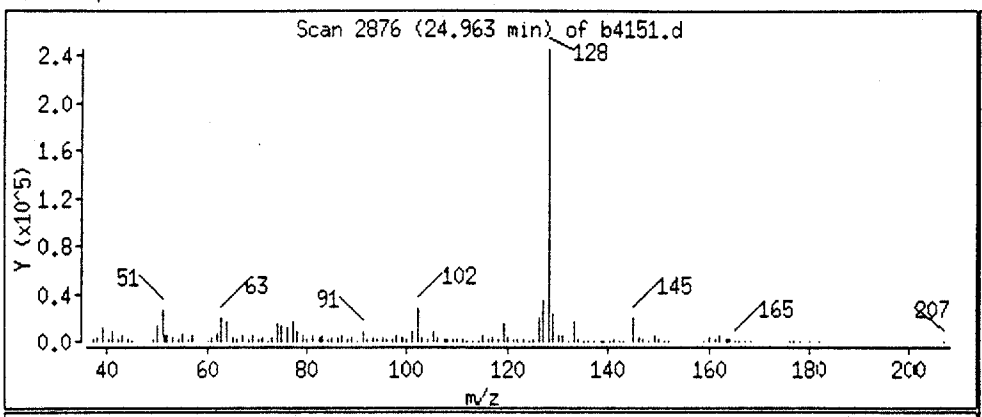
Sample ID :

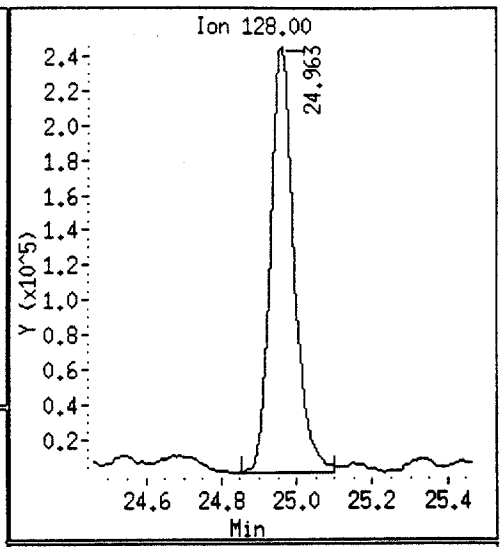
Column phase : J&W DB_624

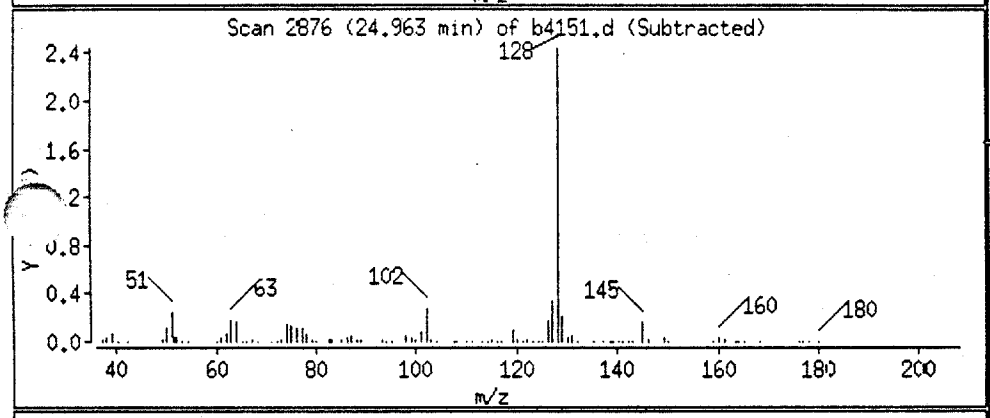
Column diameter : 0.53

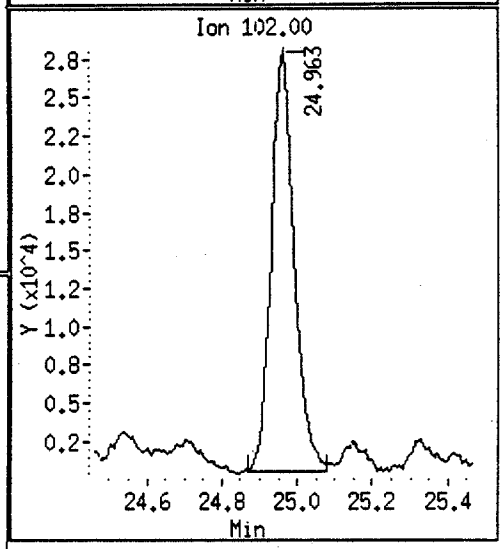
Volume Injected (uL) : 0.0

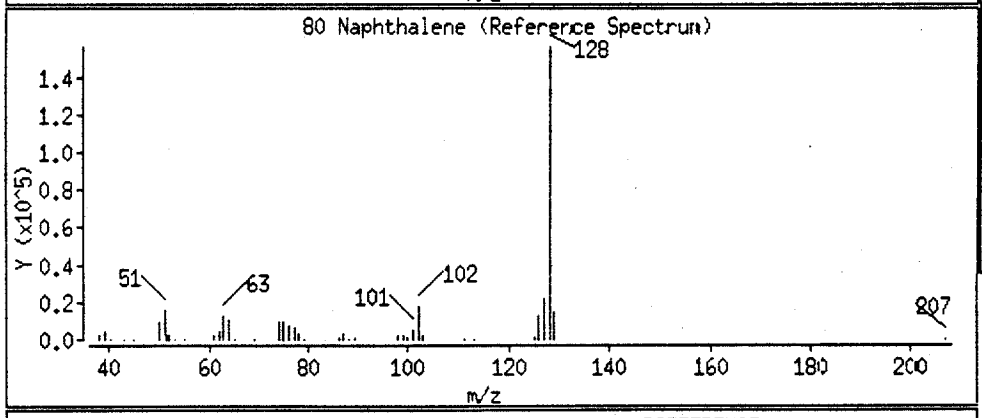
80 Naphthalene

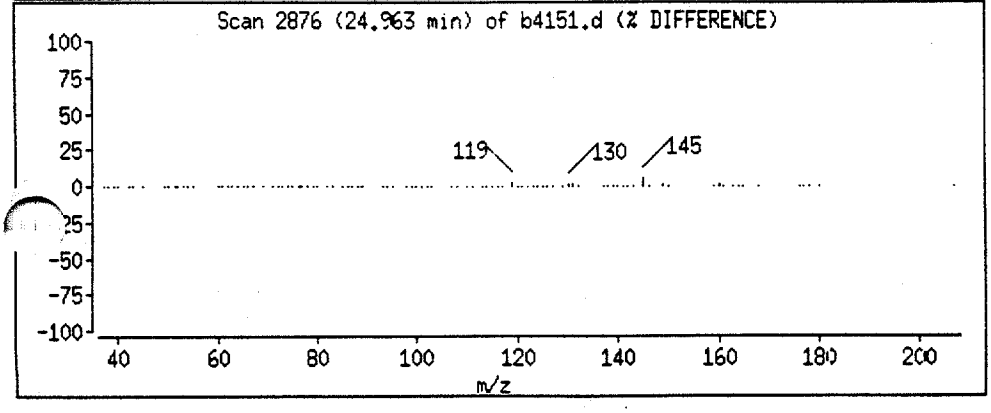






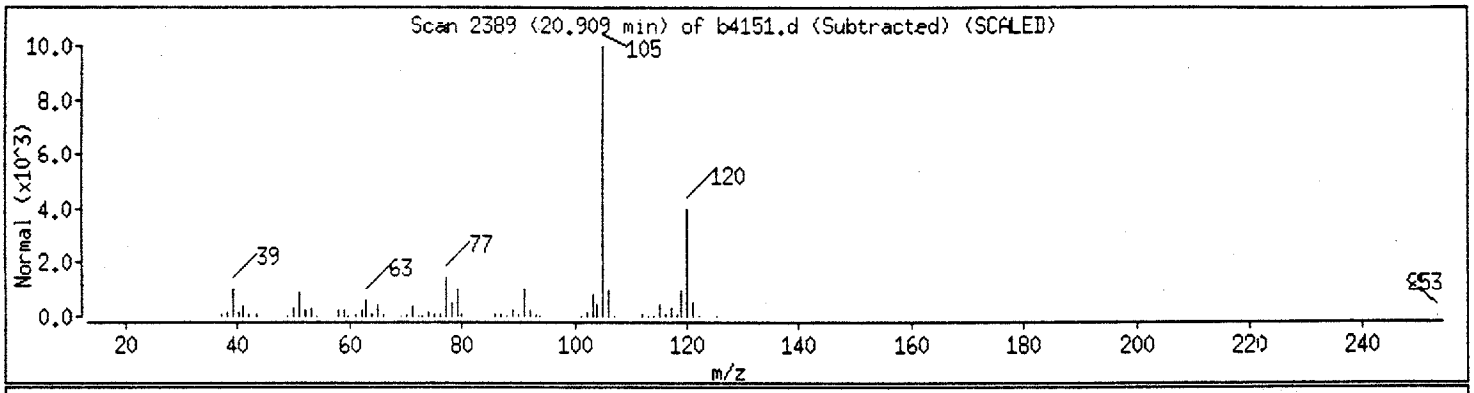


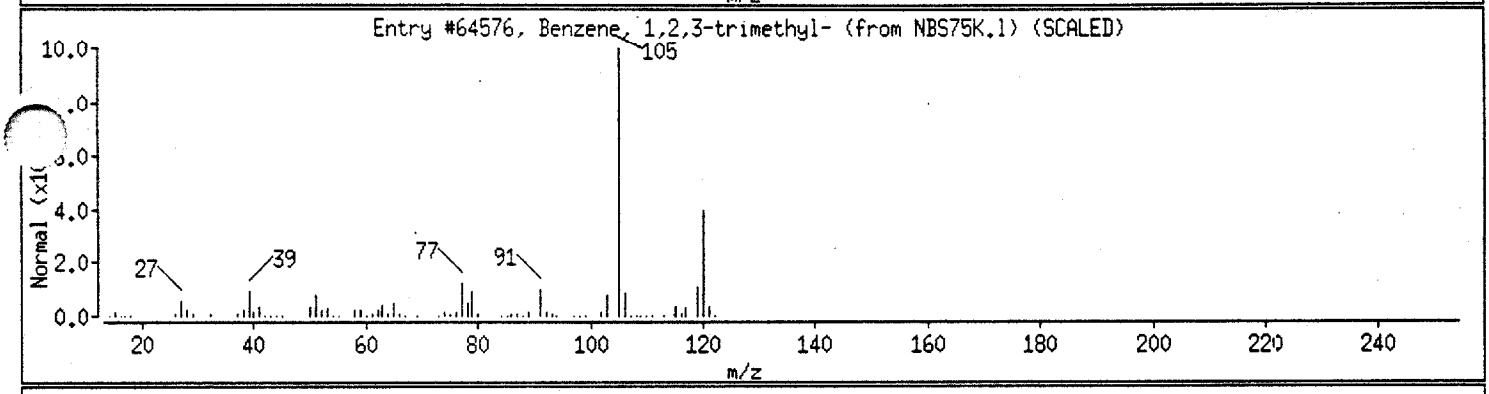


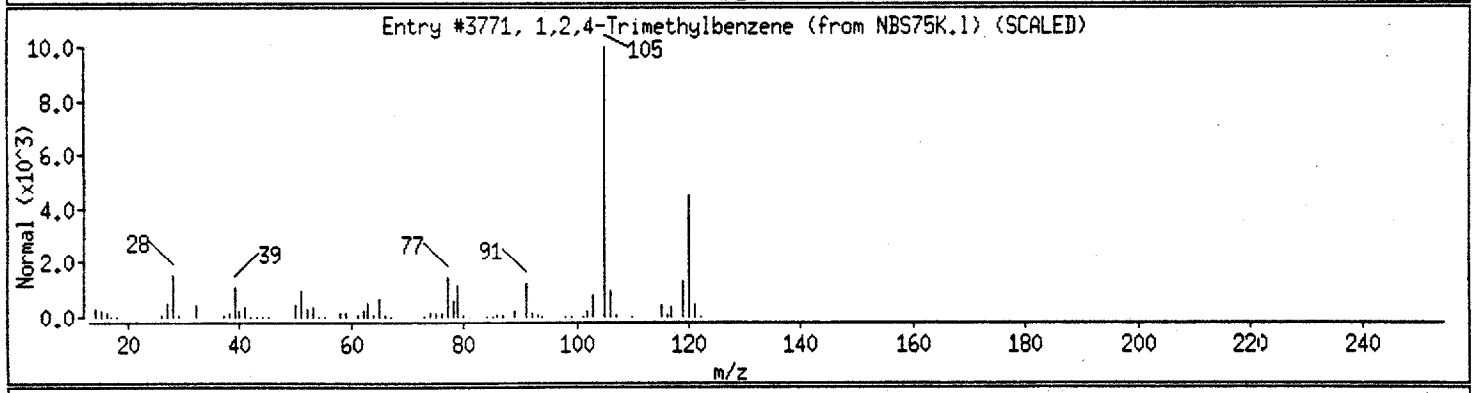


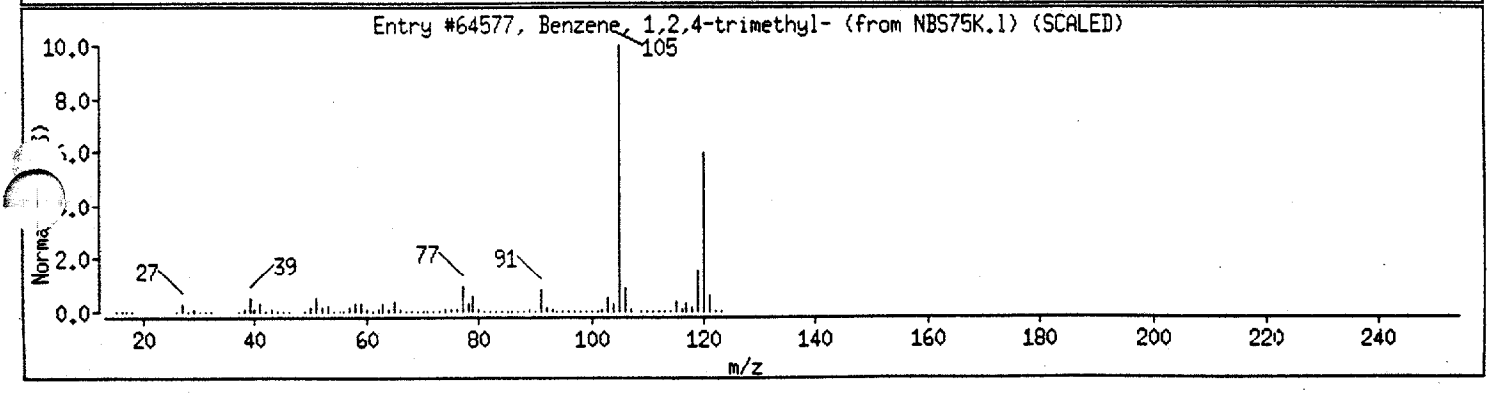
Data File: /chem/aux/msb.i/b062794.b/b4151.d
Date : 27-JUN-94 17:27
Instrument : msb.i
Sample ID :
Column phase : J&W DB_624 Column diameter : 0.53
Volume Injected (uL) : 0.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Benzene, 1,2,3-trimethyl-	526-73-8	NBS75K.1	64576	97
1,2,4-Trimethylbenzene	95-36-3	NBS75K.1	3771	96
Benzene, 1,2,4-trimethyl-	95-63-6	NBS75K.1	64577	94





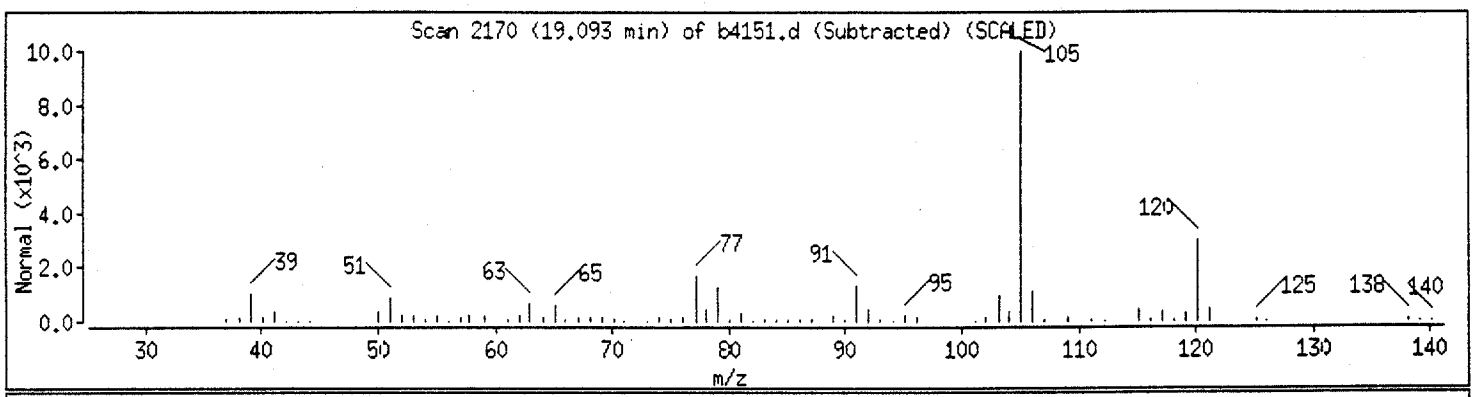


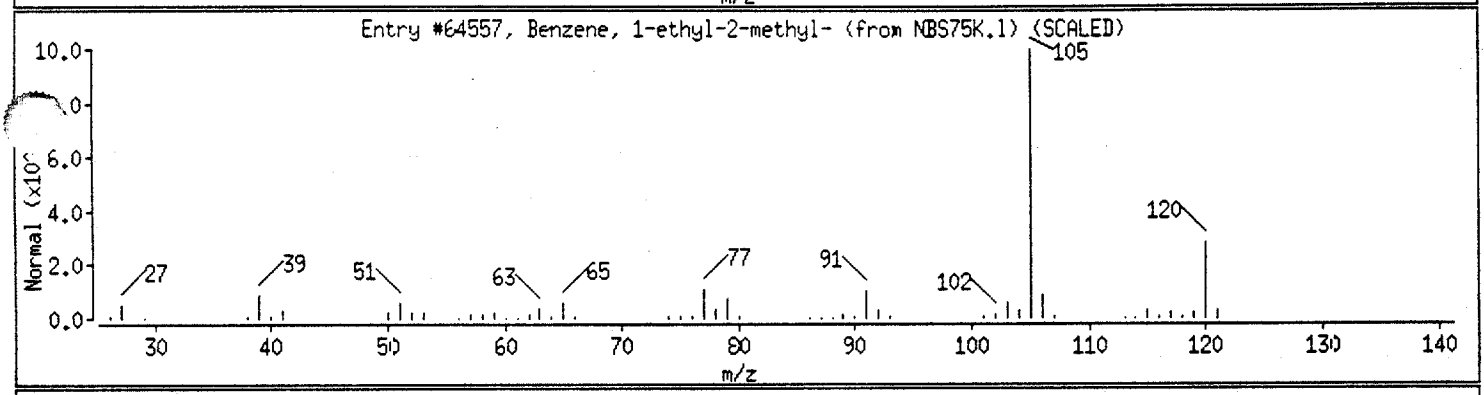


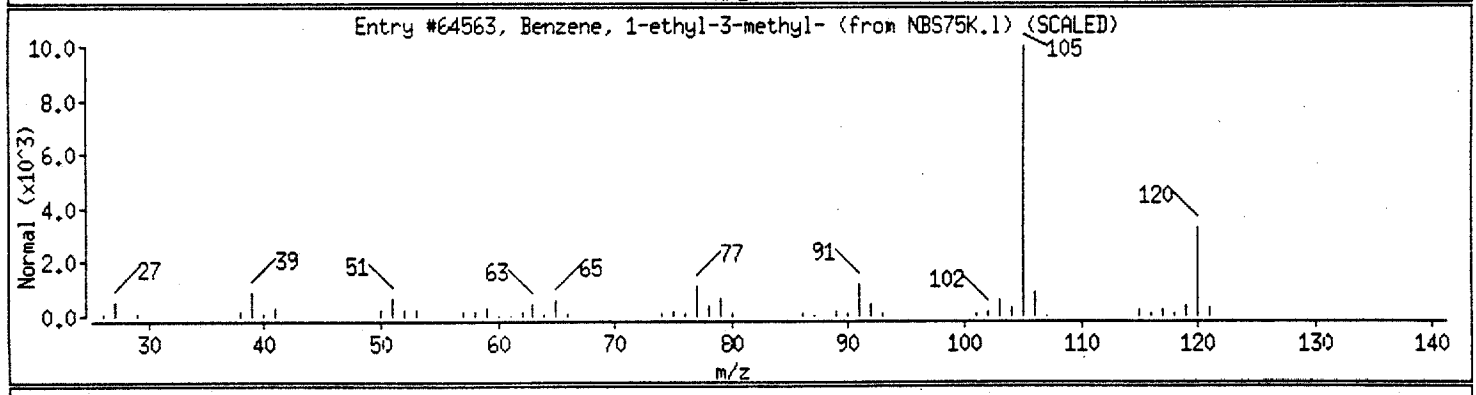
Data File: /chem/aux/msb.i/b062794.b/b4151.d

Date : 27-JUN-94 17:27
Instrument : msb.i
Sample ID :
Column phase : J&W DB_624 Column diameter : 0.53
Volume Injected (uL) : 0.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Benzene, 1-ethyl-2-methyl-	611-14-3	NBS75K.1	64557	94
Benzene, 1-ethyl-3-methyl-	620-14-4	NBS75K.1	64563	94

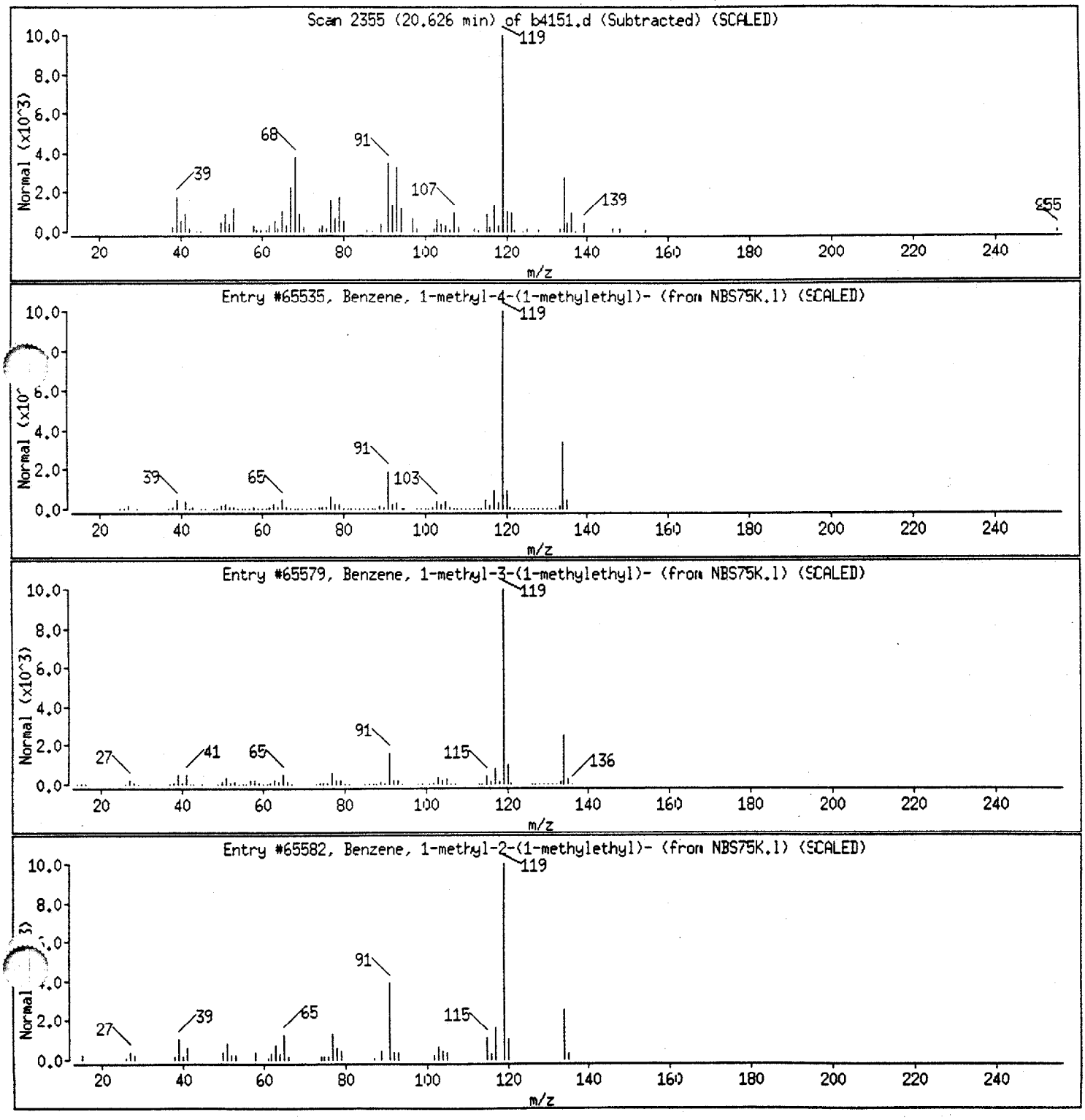






Data File: /chem/aux/msb.i/b062794.b/b4151.d
Date : 27-JUN-94 17:27
Instrument : msb.i
Sample ID :
Column phase : J&W DB_624 Column diameter : 0.53
Volume Injected (uL) : 0.0

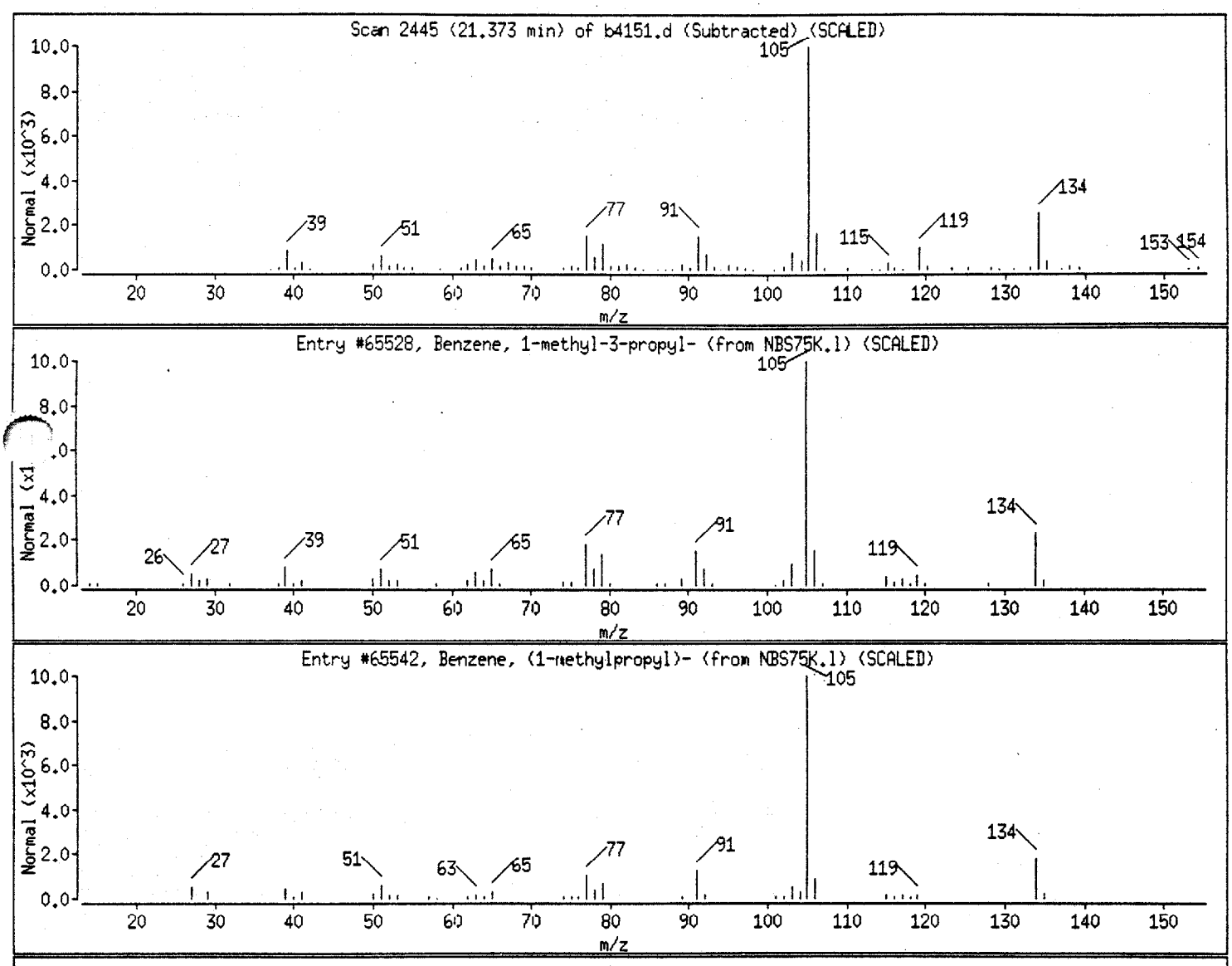
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Benzene, 1-methyl-4-(1-methylethyl)-	99-87-6	NBS75K.l	65535	92
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	NBS75K.l	65579	92
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	NBS75K.l	65582	83



Data File: /chem/aux/msb.i/b062794.b/b4151.d

Date : 27-JUN-94 17:27
Instrument : msb.i
Sample ID :
Column phase : J&W DB_624 Column diameter : 0.53
Volume Injected (uL) : 0.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Benzene, 1-methyl-3-propyl-	1074-43-7	NBS75K.1	65528	93
Benzene, (1-methylpropyl)-	135-98-8	NBS75K.1	65542	87



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C6622

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: C6607

Matrix: (soil/water) WATER Lab Sample ID: JM9439V

Sample wt/vol: 5.00 (g/mL) ml Lab File ID: B4148

Level: (low/med) low Date Received: 06/23/94

% Moisture: not dec. NA Date Analyzed: 06/28/94

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1

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

CAS NO.	COMPOUND	CONCENTRATION UNITS; (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	5.00	U
74-83-9	Bromomethane	5.00	
75-01-4	Vinyl Chloride	5.00	
75-00-3	Chloroethane	5.00	
75-09-2	Methylene Chloride	31.8	
67-64-1	Acetone	208	
75-15-0	Carbon Disulfide	5.00	U
75-35-4	1,1-Dichloroethene	5.00	
75-34-3	1,1-Dichloroethane	5.00	
540-59-0	1,2-Dichloroethene (~~total~~ Trans)	5.00	
67-66-3	Chloroform	5.00	
107-06-2	1,2-Dichloroethane	5.00	
78-93-3	2-Butanone	85.1	
71-55-6	1,1,1-Trichloroethane	5.00	U
56-23-5	Carbon Tetrachloride	5.00	
75-27-4	Bromodichloromethane	5.00	
78-87-5	1,2-Dichloropropane	5.00	
10061-01-5	cis-1,3-Dichloropropene	5.00	
79-01-6	Trichloroethene	5.00	
124-48-1	Dibromochloromethane	5.00	
79-00-5	1,1,2-Trichloroethane	5.00	
71-43-2	Benzene	1.62	BJ
10061-02-6	trans-1,3-Dichloropropene	5.00	U
75-25-2	Bromoform	5.00	
108-10-1	4-Methyl-2-Pentanone	10.0	
591-78-6	2-Hexanone	5.00	
127-18-4	Tetrachloroethene	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	5.00	
108-88-3	Toluene	4.05	J
108-90-7	Chlorobenzene	5.00	U
100-41-4	Ethylbenzene	7.29	
100-42-5	Styrene	5.00	U
1330-20-7	Xylene (total)	159	

0223

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. C6622

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: C6617

Matrix: (soil/water) WATER Lab Sample ID: JM9439V

Sample wt/vol: 5.00 (g/mL) ml Lab File ID: B4158

Level: (low/med) Low Date Received: 06/23/94

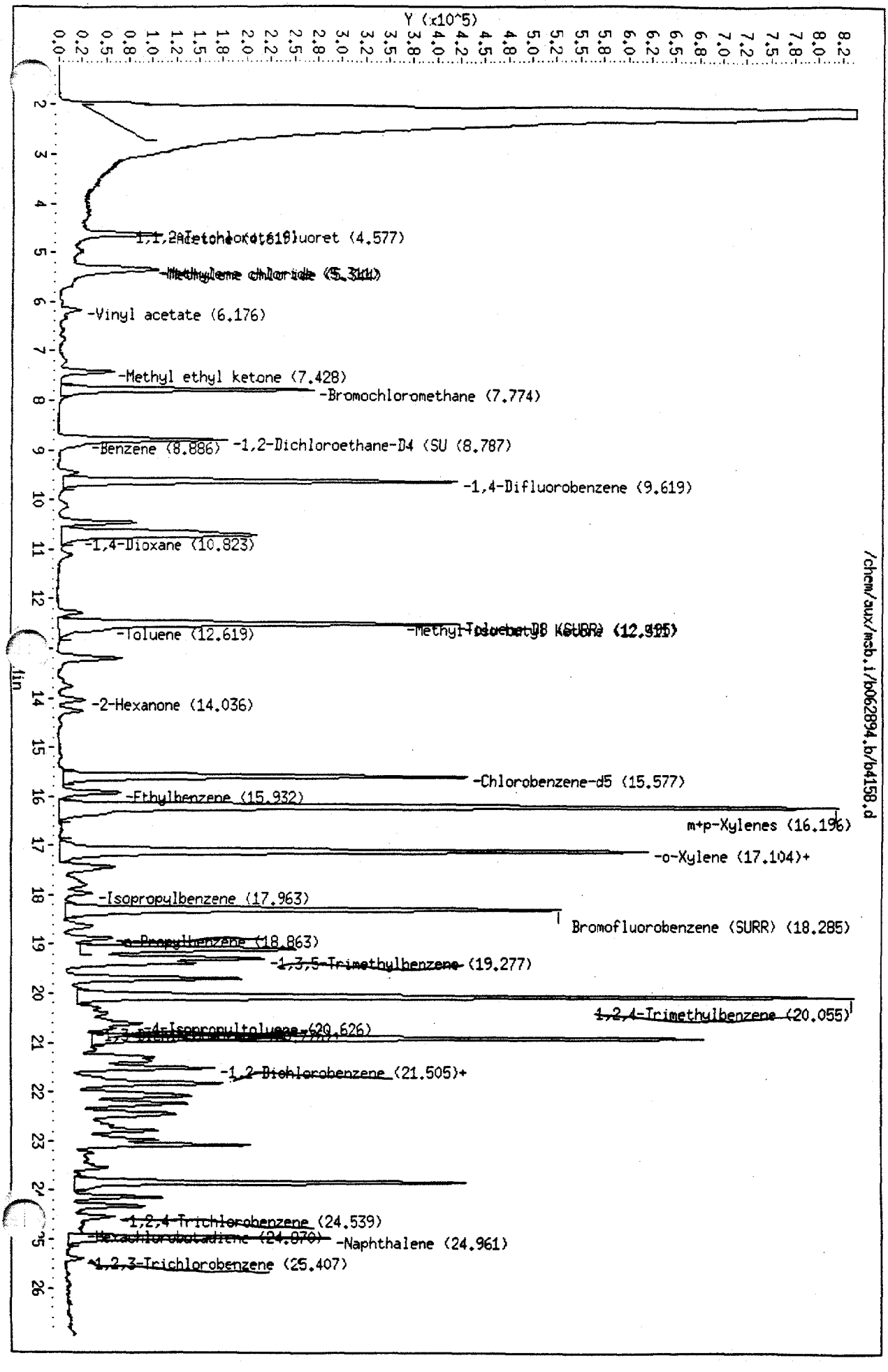
% Moisture: not dec. NA Date Analyzed: 06/28/94

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1

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

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	96-22-0	3-Pentanone	10.71	40.0	J
2.	620-14-4	Benzene, 1-ethyl-3-methyl-	19.09	89.8	
3.	~~5~~				
4.	526-73-8	Benzene, 1,2,3-Trimethyl-	20.90	66.8	J
5.	95-93-2	Benzene, 1,2,4,5-Tetramethyl-	23.83	41.6	J
6.					
7.		1,1,2-Trichlorofluoroethane	4.577	3.14	X
8.		Isopropyl Benzene	17.963	2.61	X
9.		n-Propyl Benzene	18.863	4.95	X
10.		1,2,4-Trimethylbenzene	20.055	72.7	X
11.		4-Isopropyltoluene	20.676	3.59	X
12.		Naphthalene	24.961	38.8	X
13.		1,2,3-Trichlorobenzene	25.407	2.12	X
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					



Data File: /chem/aux/msb.i/b062894.b/b4158.d
Date : 28-JUN-94 11:37
Instrument : msb.i
Sample ID :
Column phase : J&W DB_624
Volume Injected (uL) : 0.0

C6622

Column diameter : 0.53

Data File: /chem/aux/msb.i/b062894.b/b4158.d
Report Date: 30-Jun-1994 15:21

Analytical Services Corp.

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/aux/msb.i/b062894.b/b4158.d
Lab. Id. :
Quant Type: ISTD
Inj Date : 28-JUN-94 11:37
Autotune Date: {
Operator : steve
Inst ID: msb.i
Smp Info : 15226n c6622
Misc Info : jm9439v,n1v3671,1:m2,5,5:1,
Comment :
Method : /chem/aux/msb.i/b062894.b/8240b.m
Meth Date : 30-Jun-1994 11:57 tom
Cal Date : 28-JUN-94 10:30
Cal File: b4157.d
Als bottle: 4
Dil Factor: 1.000
Target Version: Target 3.00
Integrator: HP RTE
Compound Sublist: all.sub
Sample Matrix: WATER

TE 6-30-94

	Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	3 1,1,2-Trichlorotrifluoroethane	101.00	4.577	(0.589)	36622	3.14	3.14 (aQM)
	11 Acetone	43.00	4.619	(0.594)	273428	208	208
	15 Methylene chloride	84.00	5.344	(0.683)	174943	31.8	31.8 (QM)
	20 Vinyl acetate	43.00	6.176	(0.642)	15385	8.07	8.07 (a)
	23 Methyl ethyl ketone	72.00	7.428	(0.772)	45740	85.1	85.1 (aQ)
*	25 Bromochloromethane	128.00	7.774	(1.000)	199148	50.0	
$	31 1,2-Dichloroethane-D4 (SURR)	65.00	8.787	(1.130)	332194	55.1	55.1
	32 Benzene	78.00	8.886	(0.924)	23003	1.62	1.62 (a)
*	34 1,4-Difluorobenzene	114.00	9.619	(1.000)	907416	50.0	
	38 1,4-Dioxane	88.00	10.823	(1.125)	21457	204	204 (QM)
	42 Methyl-iso-butyl ketone	43.00	12.511	(0.803)	5225	0.922	0.922 (aQ)
$	43 Toluene-D8 (SURR)	98.00	12.495	(0.802)	857243	51.7	51.7
	44 Toluene	92.00	12.619	(0.810)	43938	4.05	4.05 (a)
	49 2-Hexanone	43.00	14.036	(0.901)	60878	15.6	15.6 (a)
*	52 Chlorobenzene-d5	117.00	15.585	(1.000)	708302	50.0	
	55 Ethylbenzene	106.00	15.932	(1.022)	47717	7.29	7.29
	56 m+p-Xylenes	106.00	16.196	(1.039)	719209	90.8	90.8
	57 o-Xylene	106.00	17.104	(1.097)	542566	68.4	68.4
	58 Styrene	104.00	17.095	(1.097)	14306	1.14	1.14 (aQ)
	60 Isopropylbenzene	105.00	17.963	(1.153)	60373	2.61	2.61 (a)
$	61 Bromofluorobenzene (SURR)	95.00	18.285	(1.173)	586161	52.7	52.7
	65 n-Propylbenzene	120.00	18.863	(1.210)	30692	4.95	4.95 (aQ)
	67 1,3,5-Trimethylbenzene	105.00	19.277	(1.237)	337606	18.0	18.0
	70 1,2,4-Trimethylbenzene	105.00	20.055	(1.287)	1307034	72.7	72.7 OK DA
	72 1,3-Dichlorobenzene	146.00	20.776	(1.333)	7147	0.523	0.523 (aQ)
	73 4-Isopropyltoluene	119.00	20.626	(1.323)	83178	3.59	3.59 (a) OK DA
	74 1,4-Dichlorobenzene	146.00	20.776	(1.333)	7147	0.516	0.516 (aQ)
	75 1,2-Dichlorobenzene	146.00	21.505	(1.380)	7078	0.571	0.571 (a)
	76 n-Butylbenzene	91.00	21.513	(1.380)	68739	3.17	3.17 (aQ)

Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78 1,2,4-Trichlorobenzene	180.00	24.539	(1.575)	11129	1.38	~~1.38(a)~~
79 Hexachlorobutadiene	225.00	24.870	(1.596)	4637	1.11	~~1.11~~(aQ)
80 Naphthalene	128.00	24.961	(1.602)	533495	38.8	38.8
81 1,2,3-Trichlorobenzene	180.00	25.407	(1.630)	13450	2.12	~~2.12(a)~~ OK

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/aux/msb.i/b062894.b/b4158.d

Date : 28-JUN-94 11:37

Instrument : msb.i

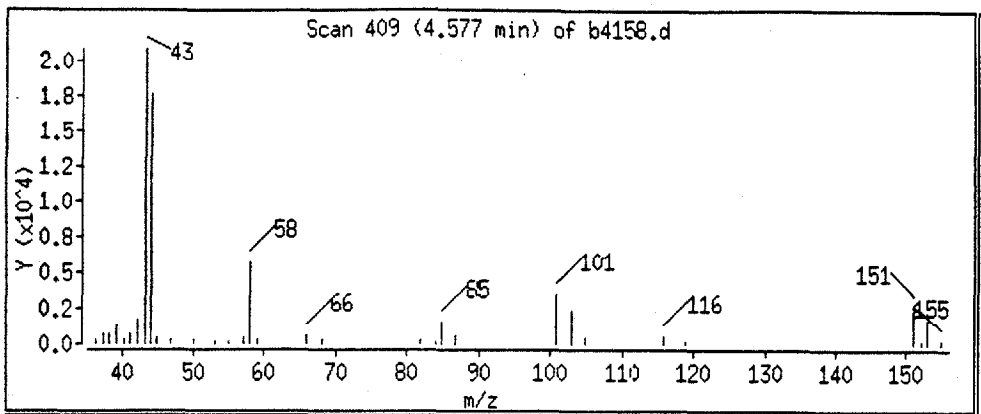
Sample ID :

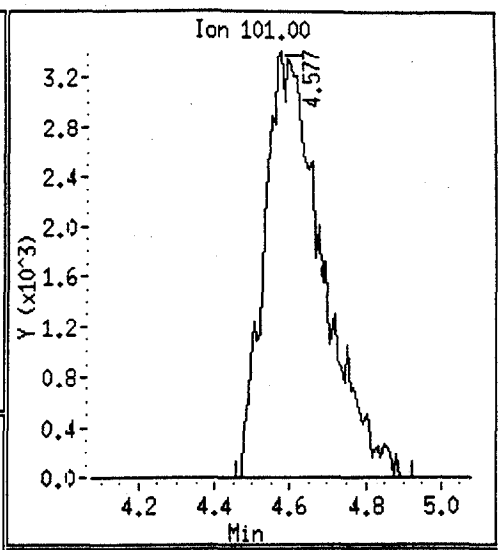
Column phase : J&W DB_624

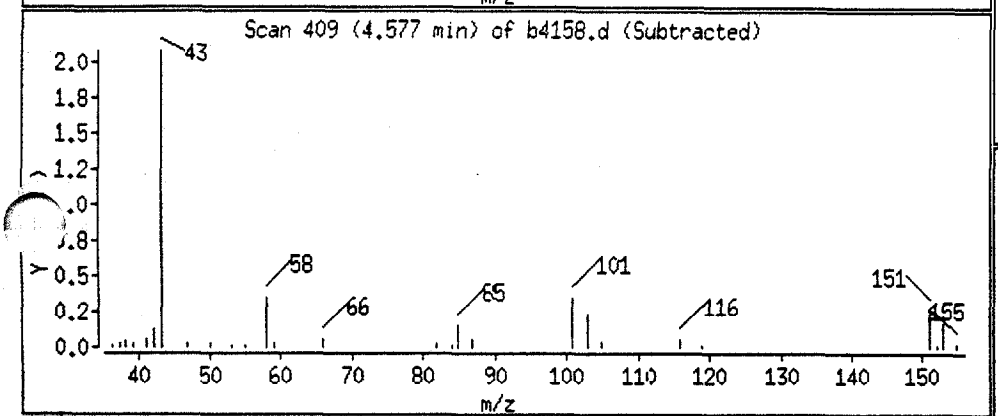
Column diameter : 0.53

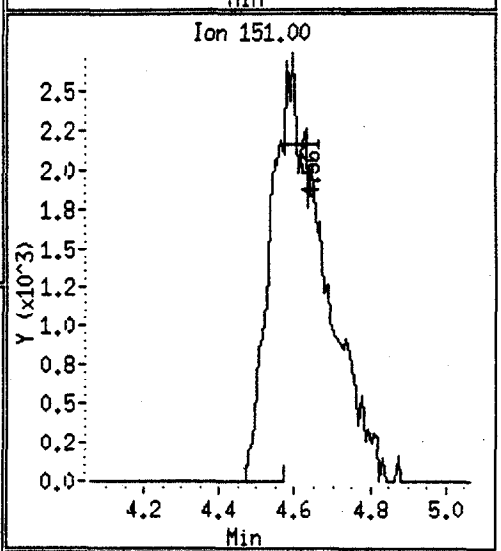
Volume Injected (uL) : 0.0

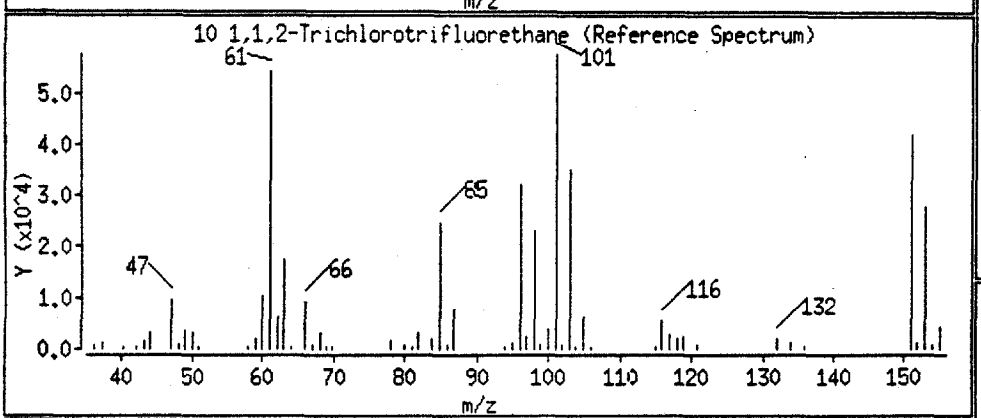
10 1,1,2-Trichlorotrifluorethane

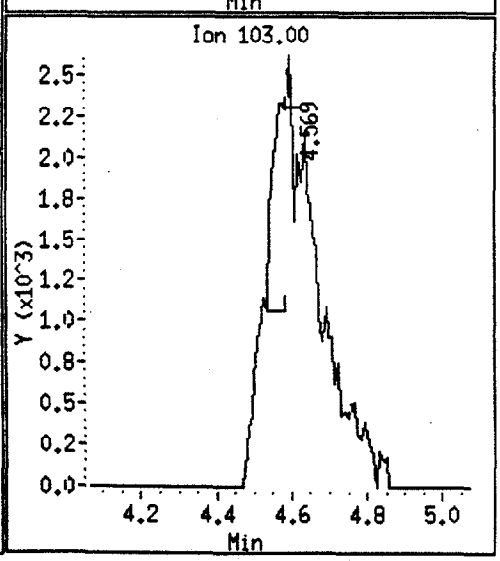


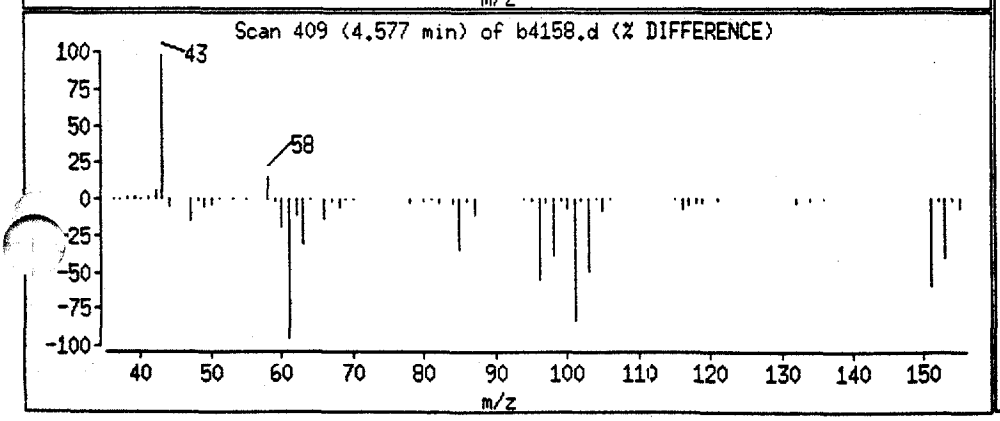












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Date : 28-JUN-94 11:37

Instrument : msb.i

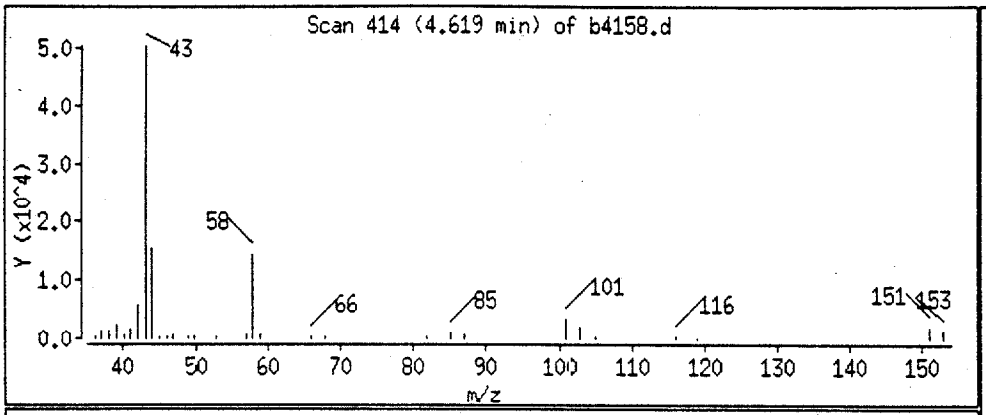
Sample ID :

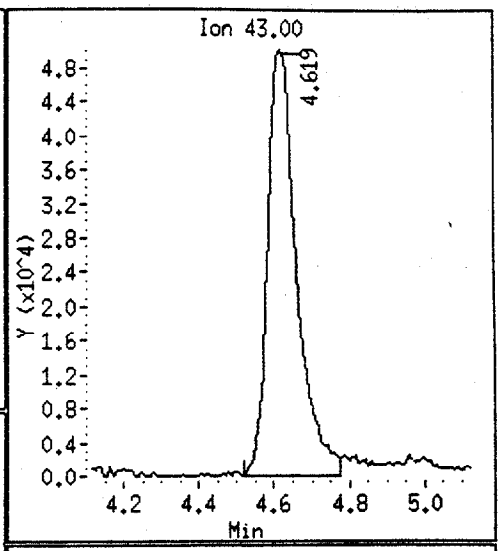
Column phase : J&W DB_624

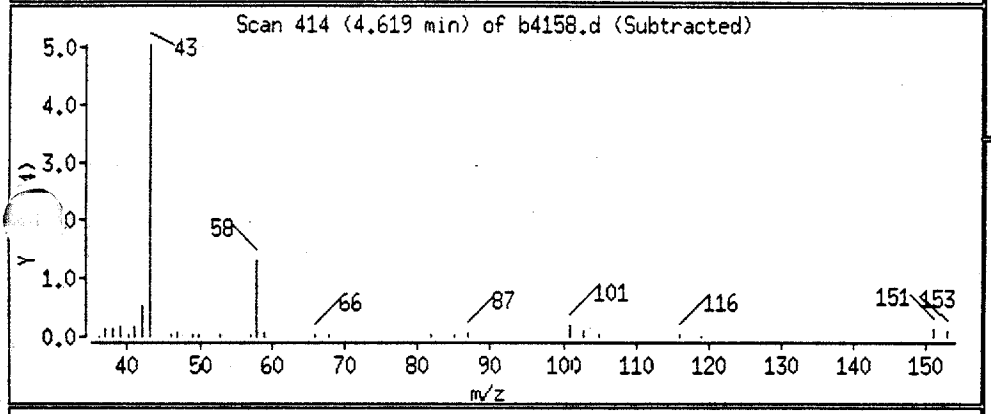
Column diameter : 0.53

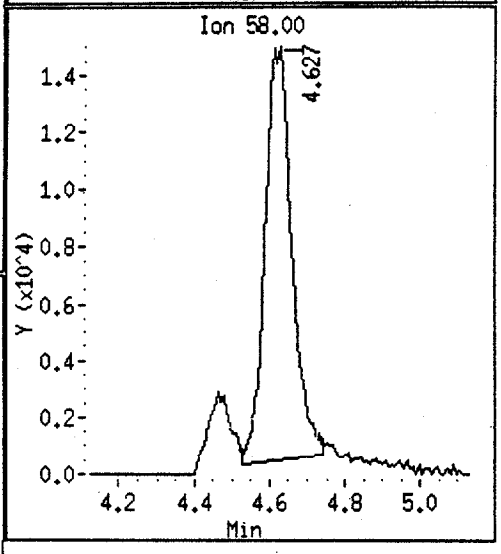
Volume Injected (uL) : 0.0

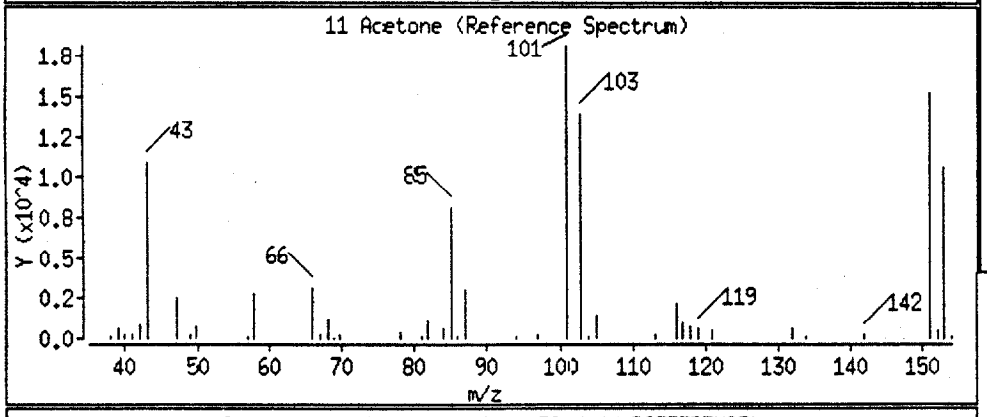
11 Acetone

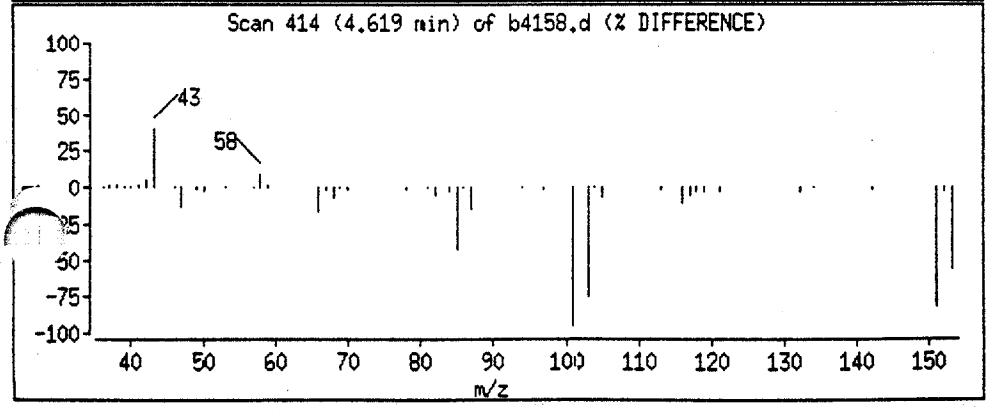












Data File: /chem/aux/msb.i/b062894.b/b4158.d

Date : 28-JUN-94 11:37

Instrument : msb.i

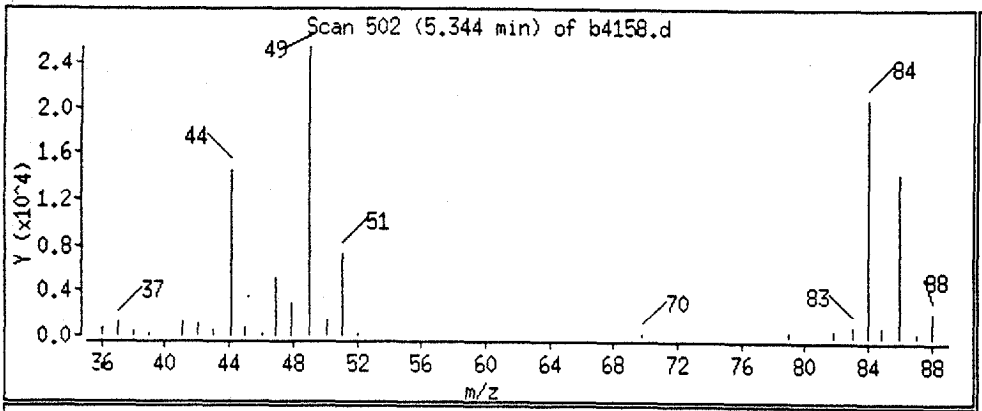
Sample ID :

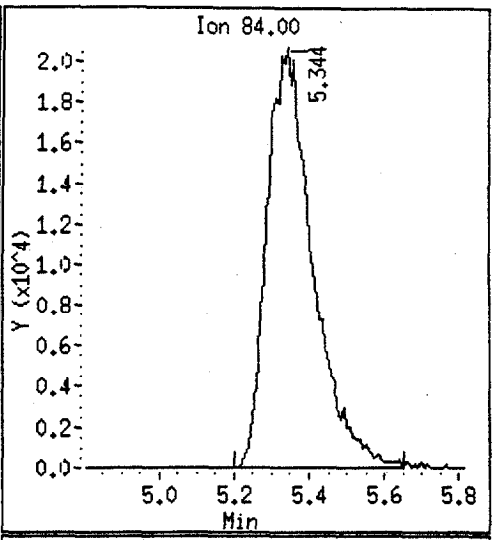
Column phase : J&W DB_624

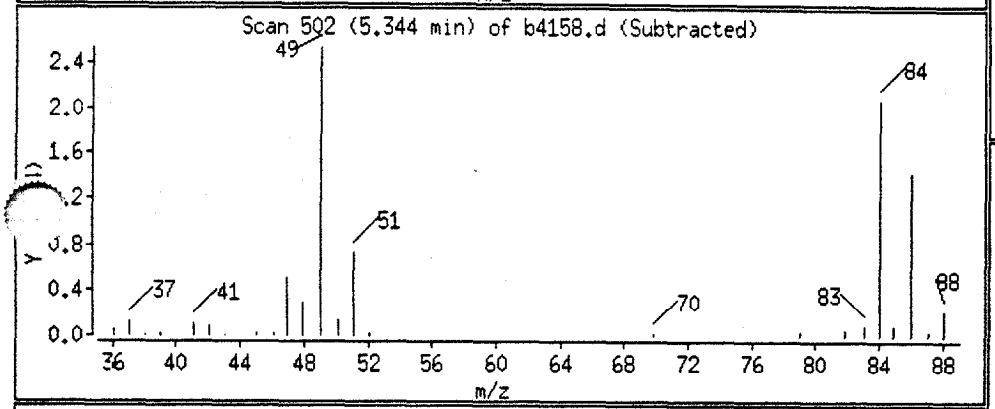
Column diameter : 0.53

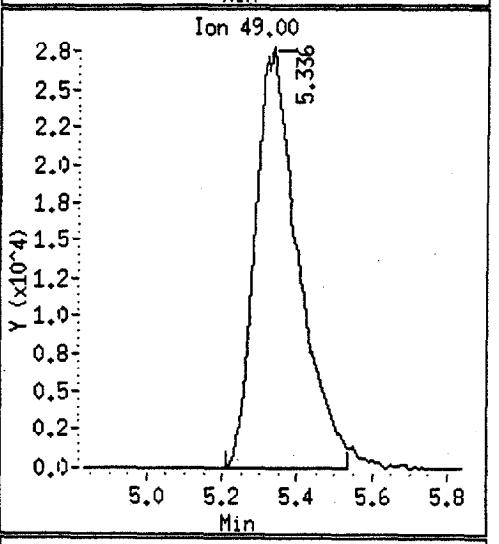
Volume Injected (uL) : 0.0

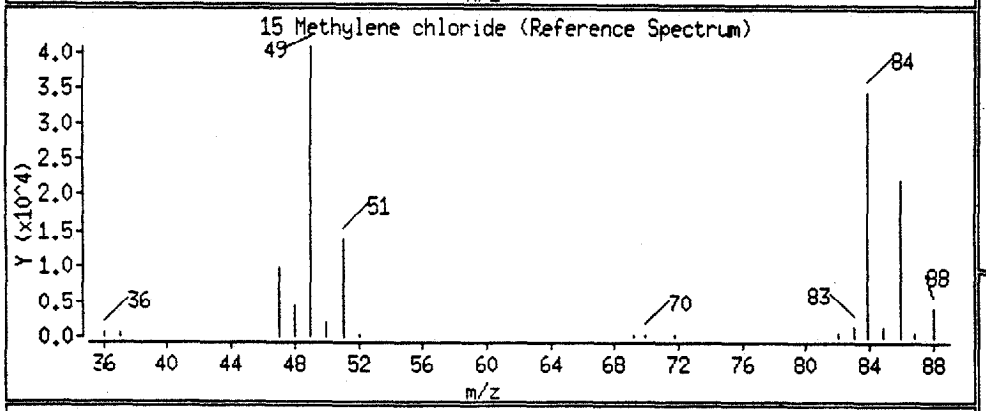
15 Methylene chloride

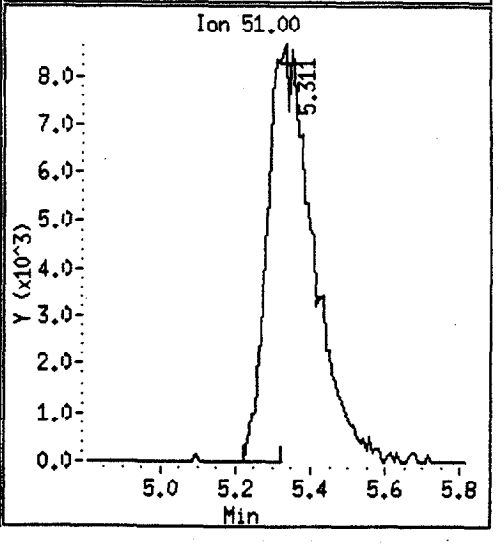


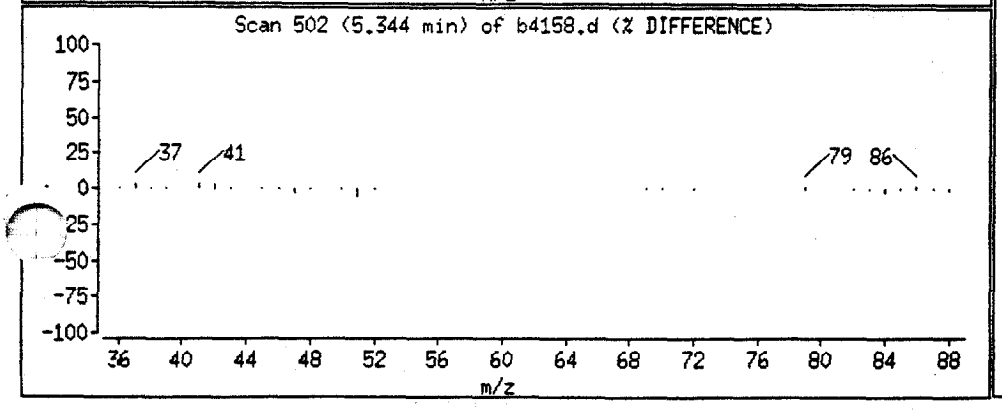












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Date : 28-JUN-94 11:37

Instrument : msb.i

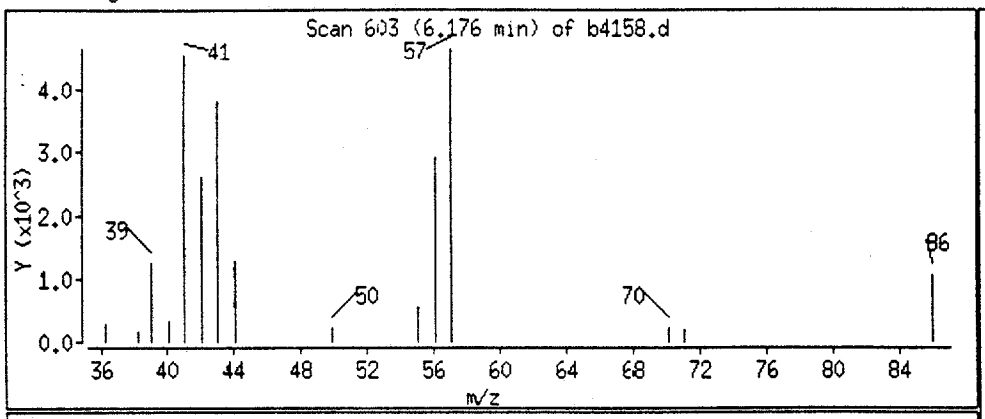
Sample ID :

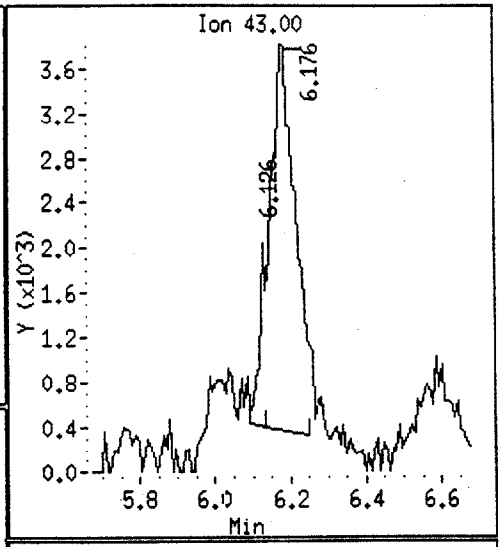
Column phase : J&W DB_624

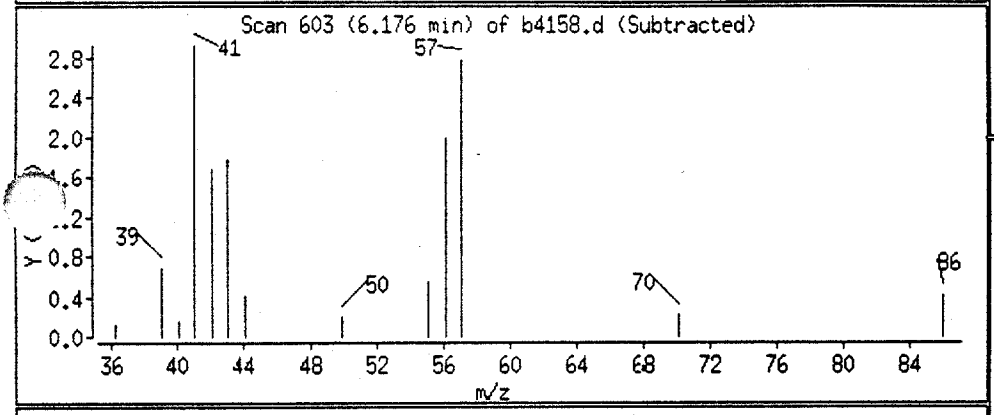
Column diameter : 0.53

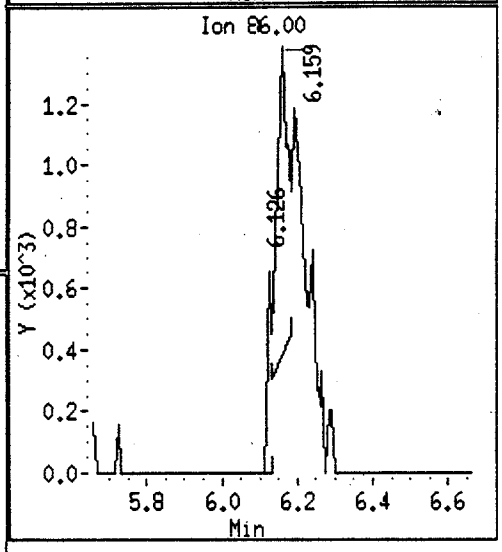
Volume Injected (uL) : 0.0

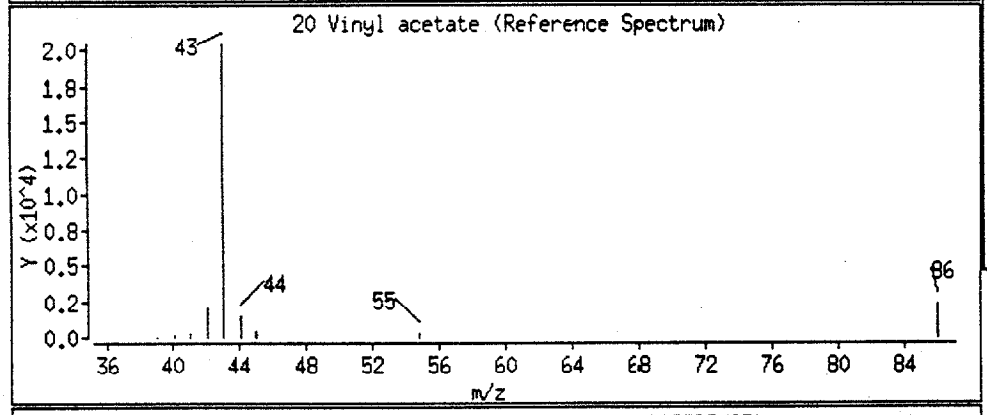
20 Vinyl acetate

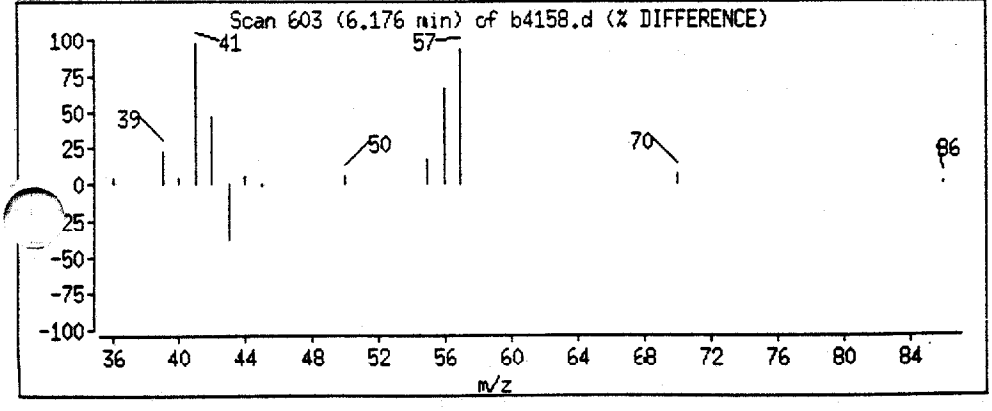












Data File: /chem/aux/msb.i/b062894.b/b4158.d

Date : 28-JUN-94 11:37

Instrument : msb.i

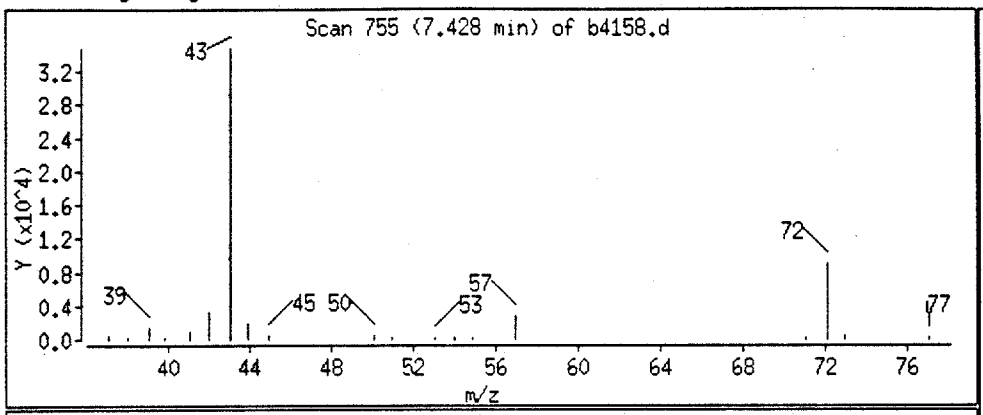
Sample ID :

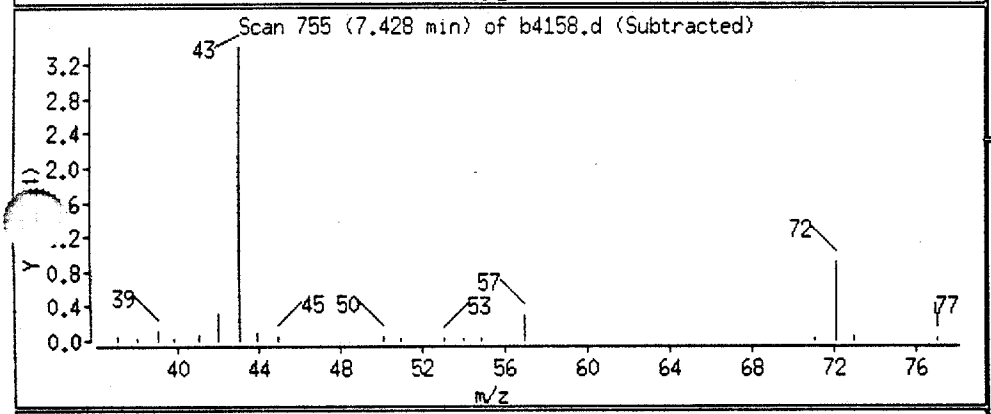
Column phase : J&W DB_624

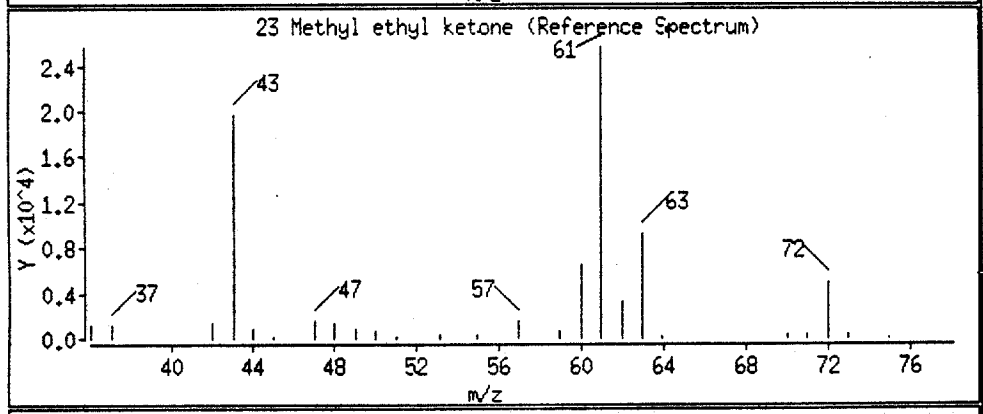
Column diameter : 0.53

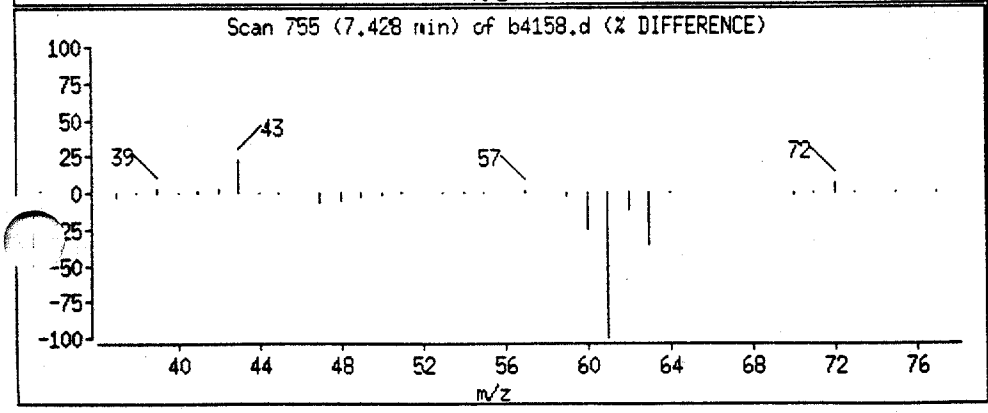
Volume Injected (uL) : 0.0

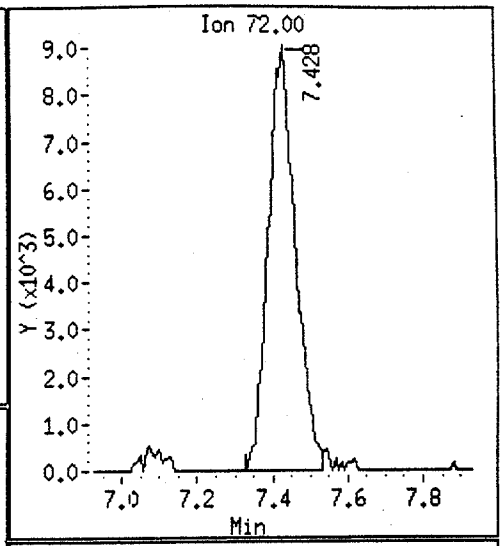
23 Methyl ethyl ketone

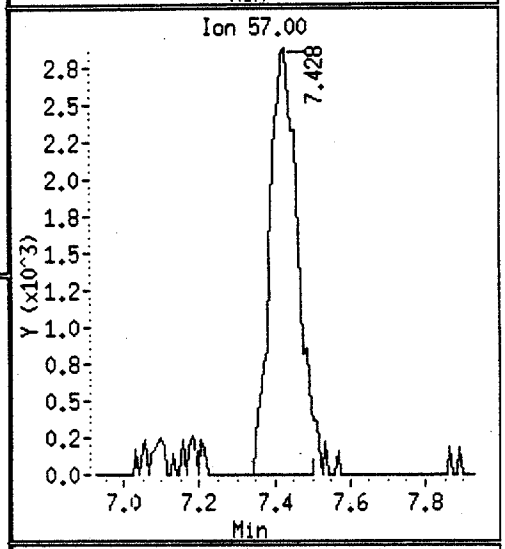


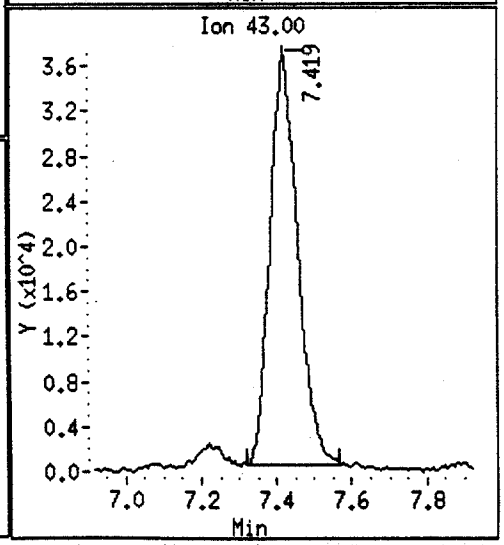












Data File: /chem/aux/msb.i/b062894.b/b4158.d

Date : 28-JUN-94 11:37

Instrument : msb.i

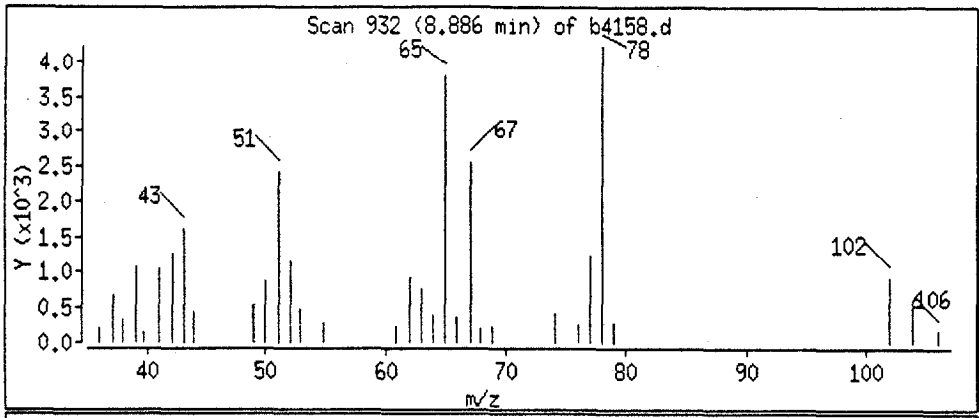
Sample ID :

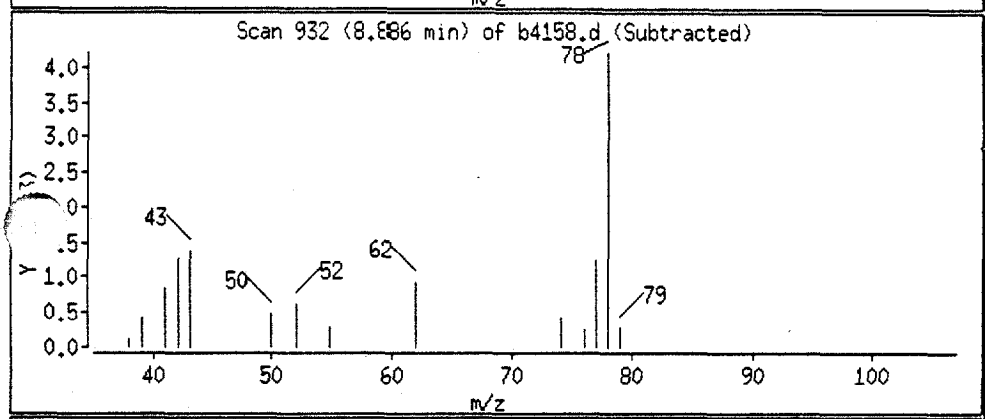
Column phase : J&W DB_624

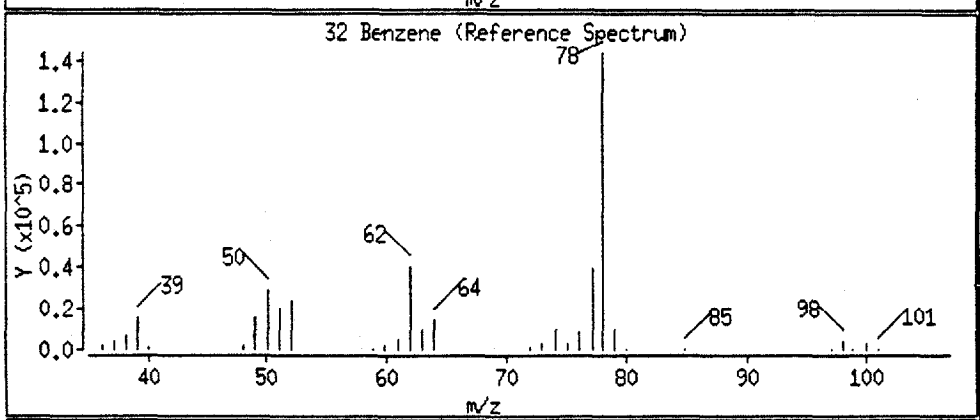
Column diameter : 0.53

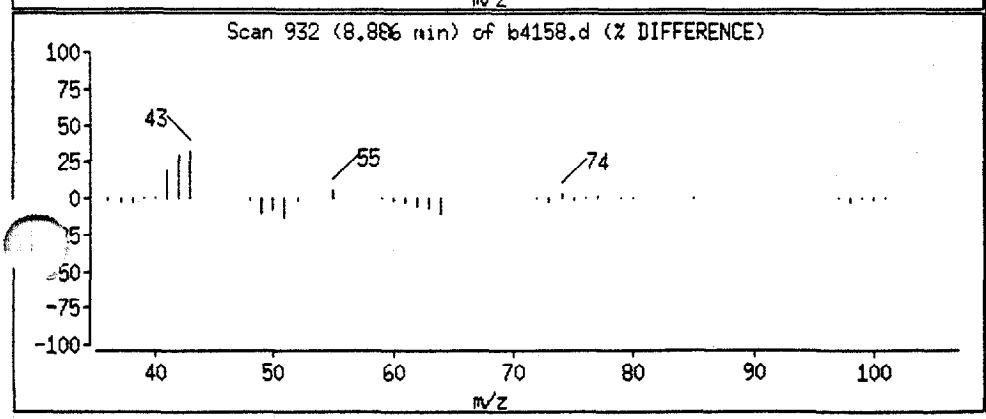
Volume Injected (uL) : 0.0

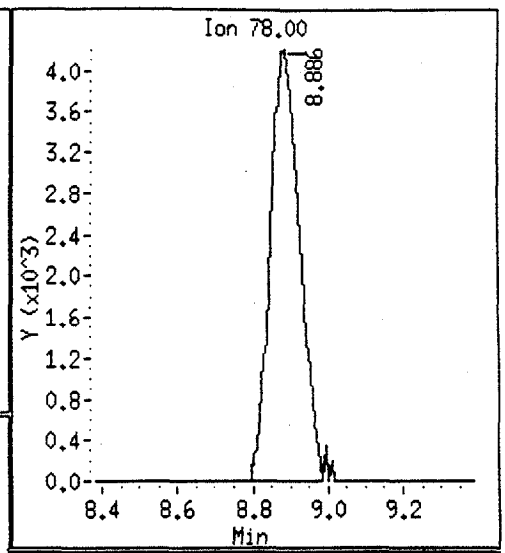
32 Benzene

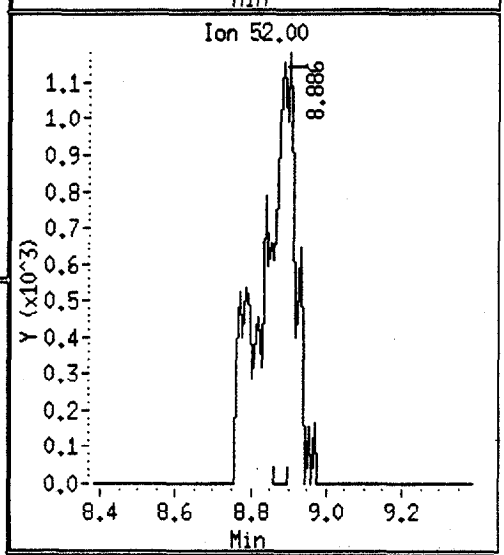


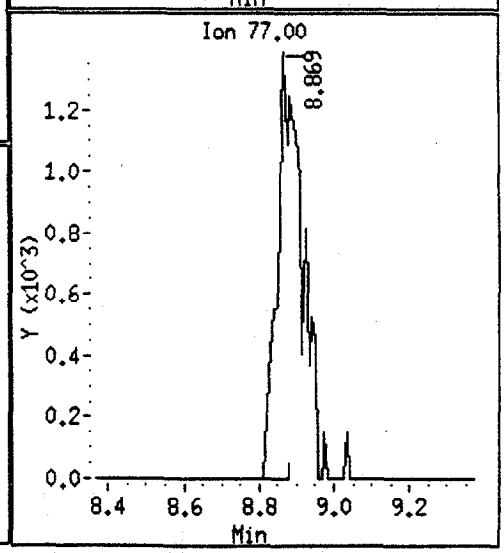












Data File: /chem/aux/msb.i/b062894.b/b4158.d

Date : 28-JUN-94 11:37

Instrument : msb.i

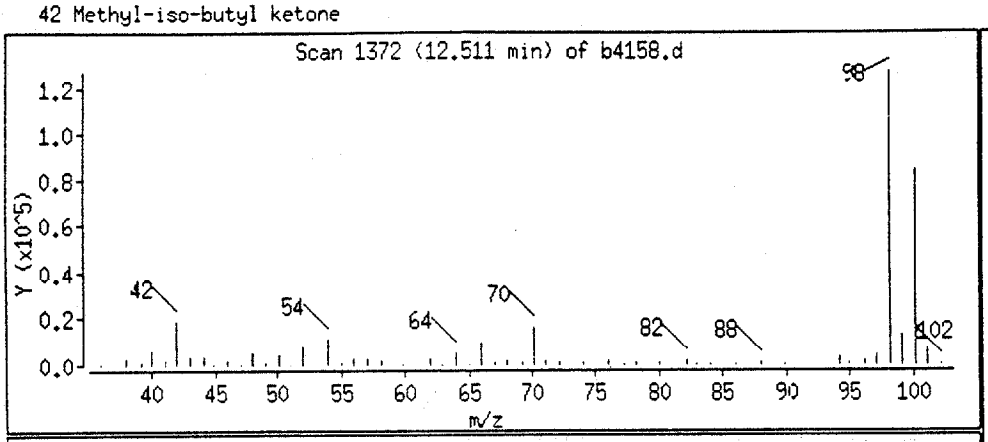
Sample ID :

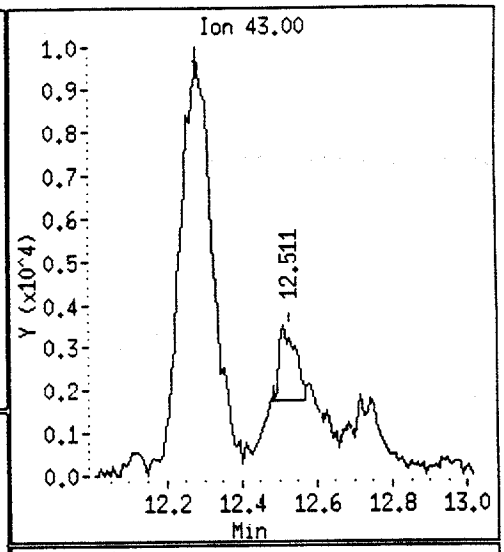
Column phase : J&W DB_624

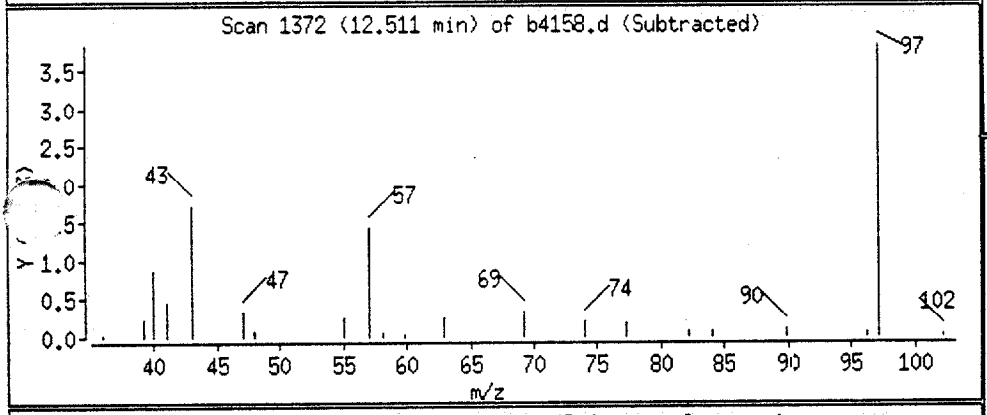
Column diameter : 0.53

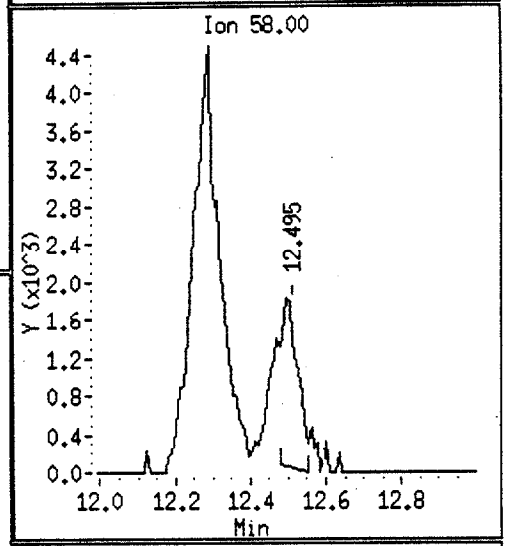
Volume Injected (uL) : 0.0

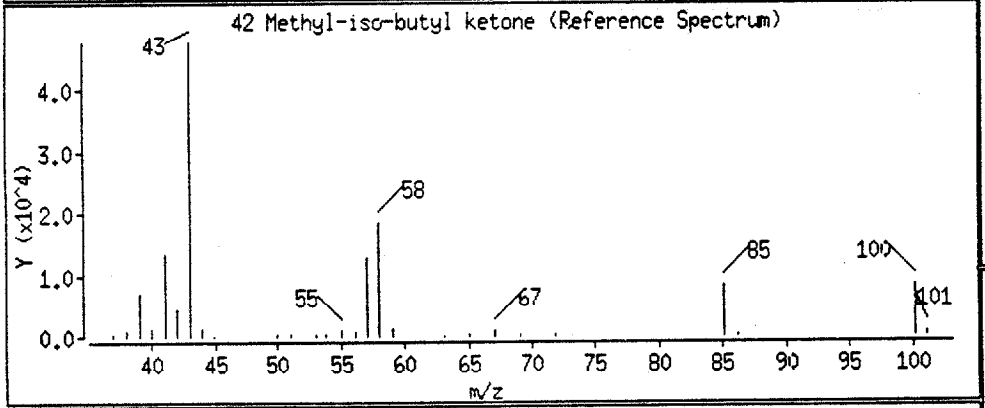
42 Methyl-iso-butyl ketone

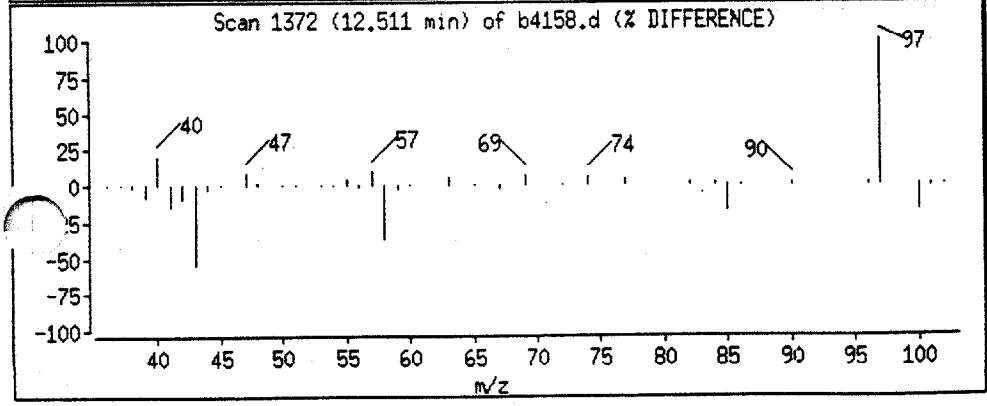


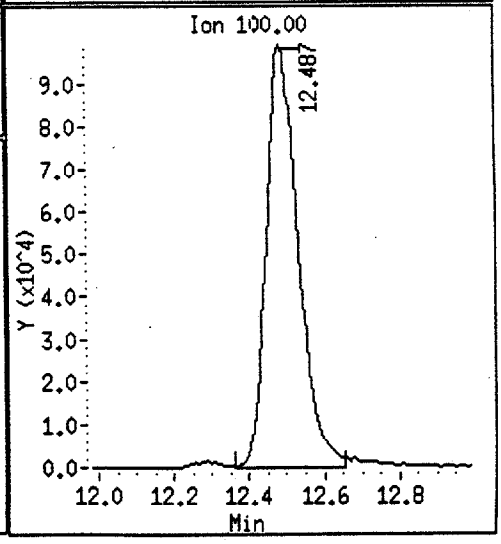












Data File: /chem/aux/msb.i/b062894.b/b4158.d

Date : 28-JUN-94 11:37

Instrument : msb.i

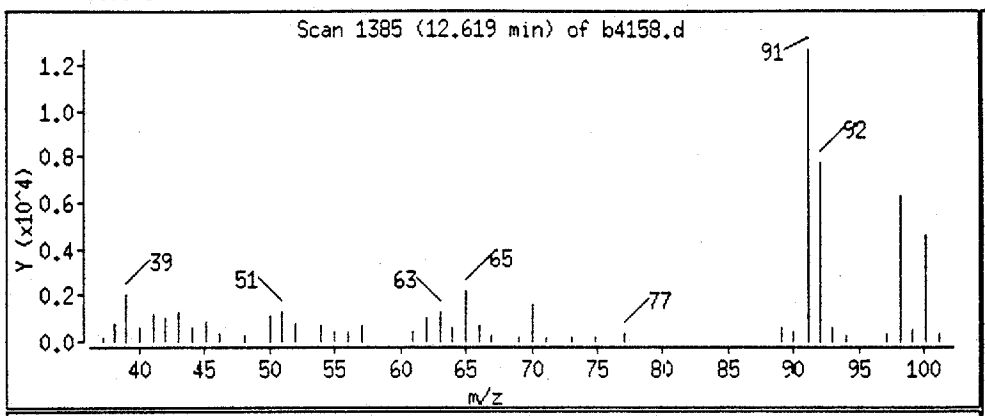
Sample ID :

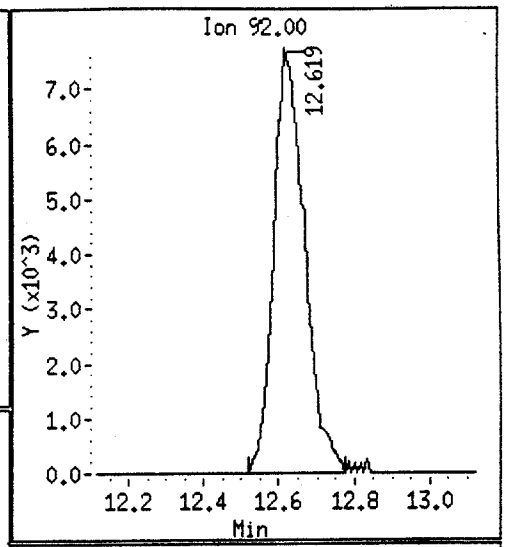
Column phase : J&W DB_624

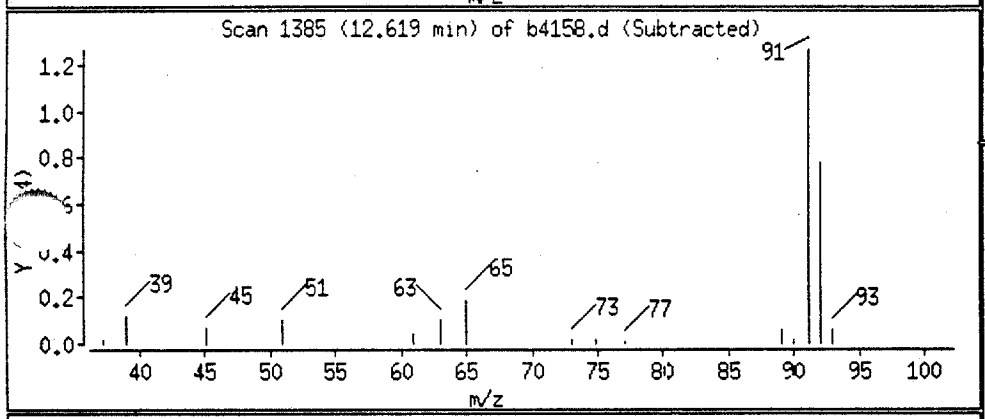
Column diameter : 0.53

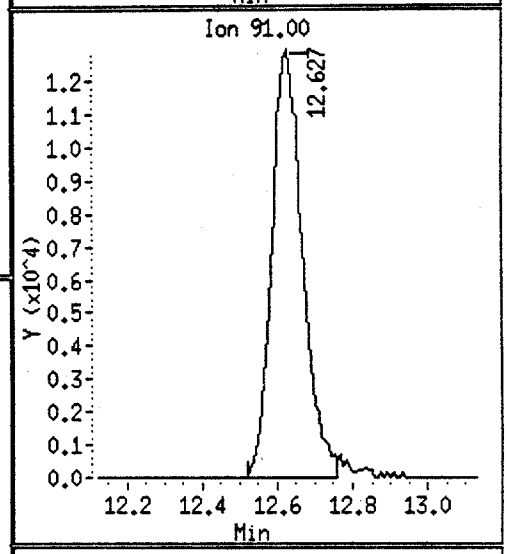
Volume Injected (uL) : 0.0

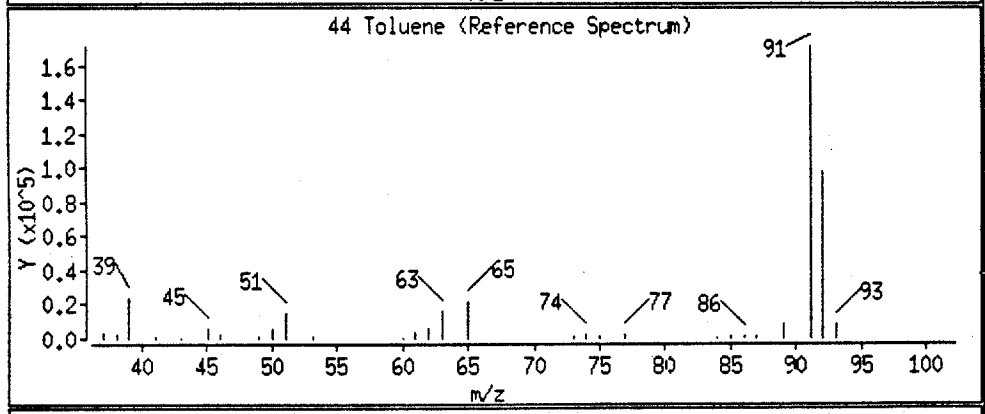
44 Toluene

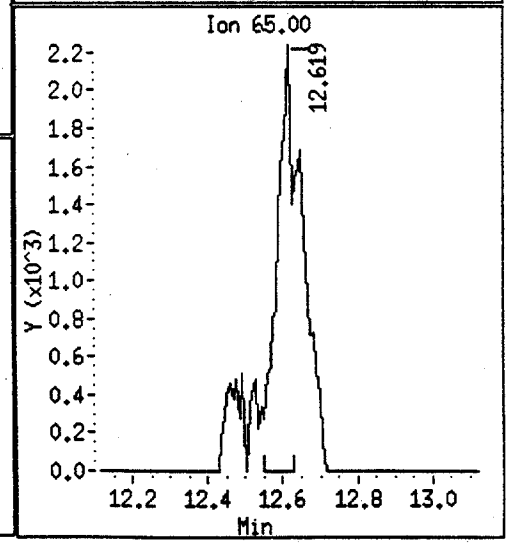


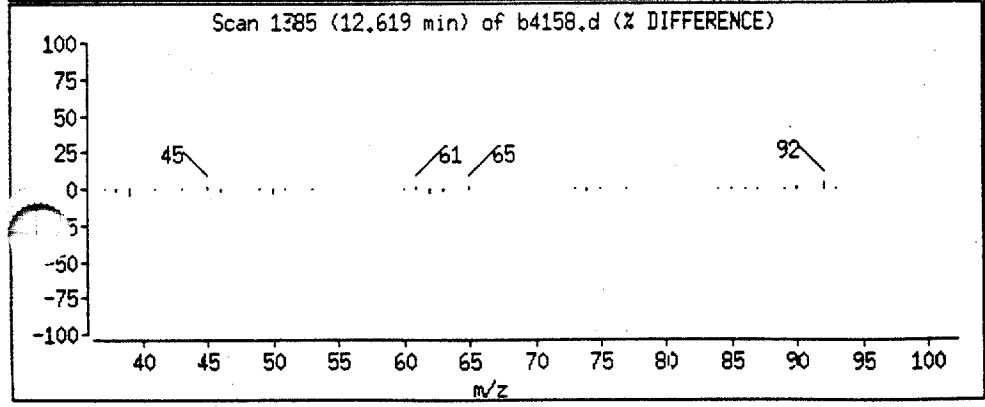












Data File: /chem/aux/msb.i/b062894.b/b4158.d

Date : 28-JUN-94 11:37

Instrument : msb.i

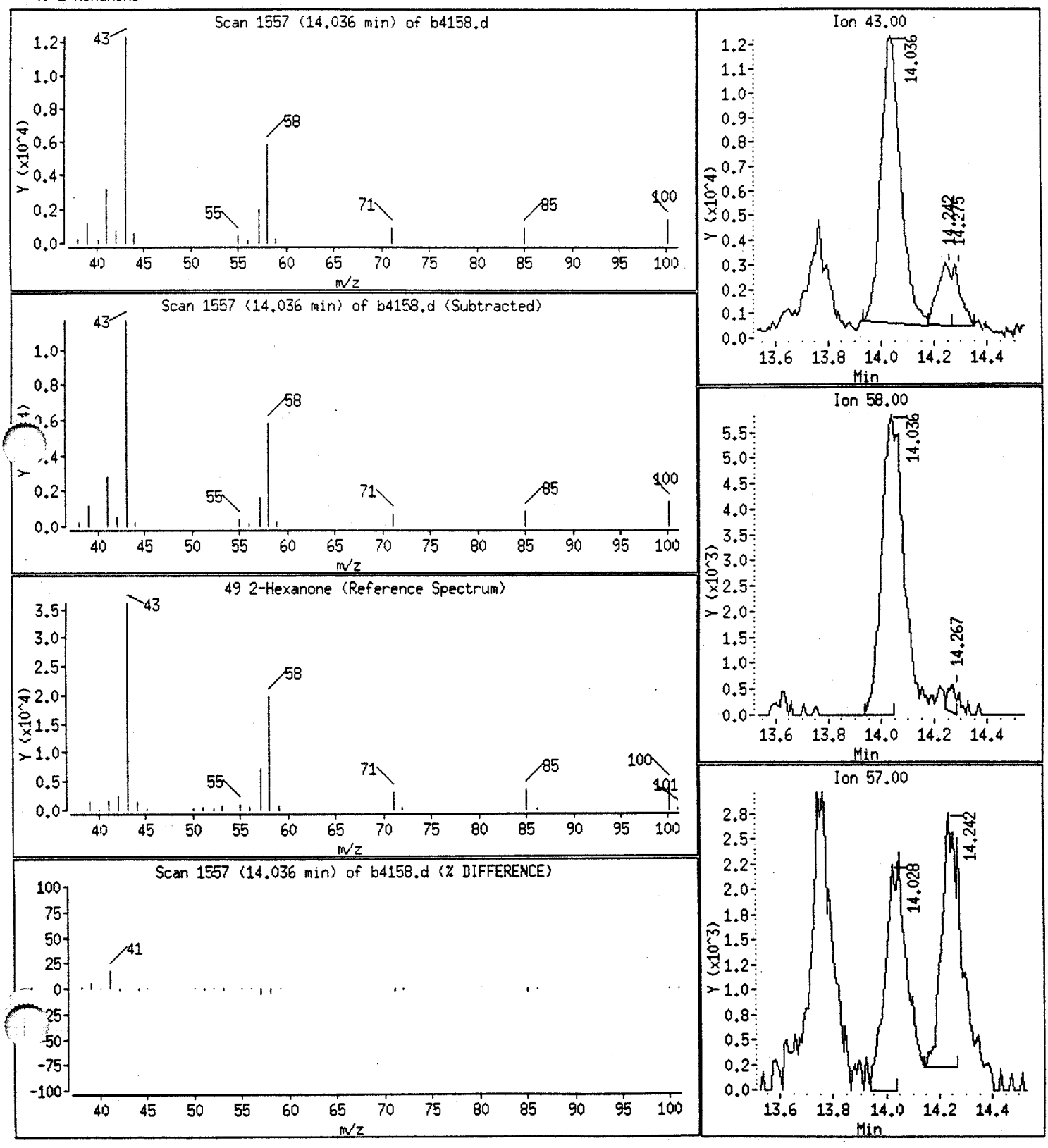
Sample ID :

Column phase : J&W DB_624

Column diameter : 0.53

Volume Injected (uL) : 0.0

49 2-Hexanone



Data File: /chem/aux/msb.i/b062894.b/b4158.d

Date : 28-JUN-94 11:37

Instrument : msb.i

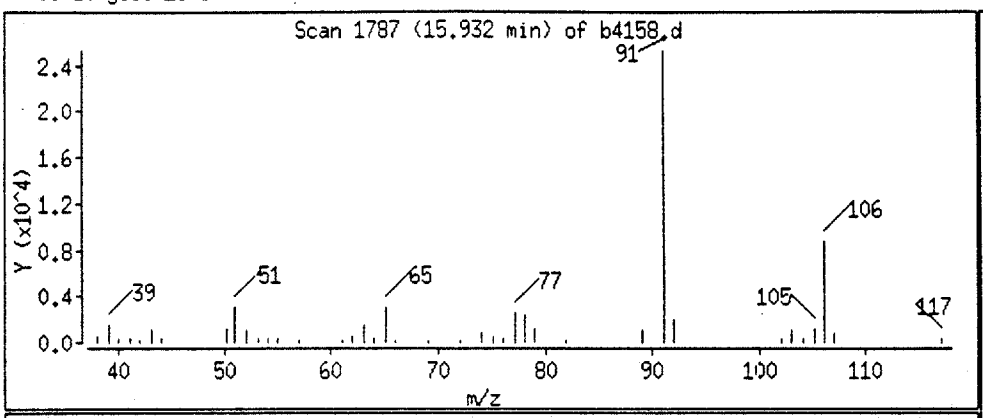
Sample ID :

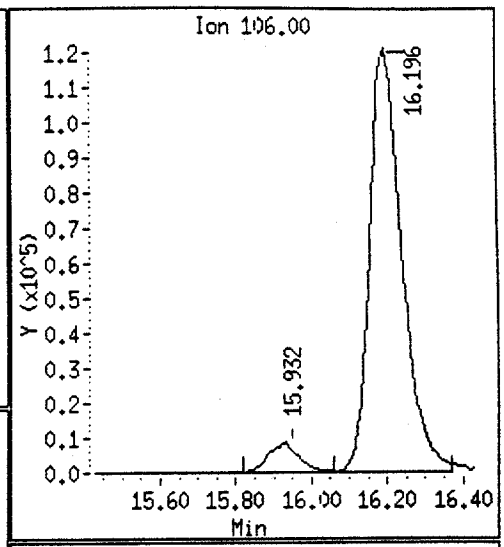
Column phase : J&W DB_624

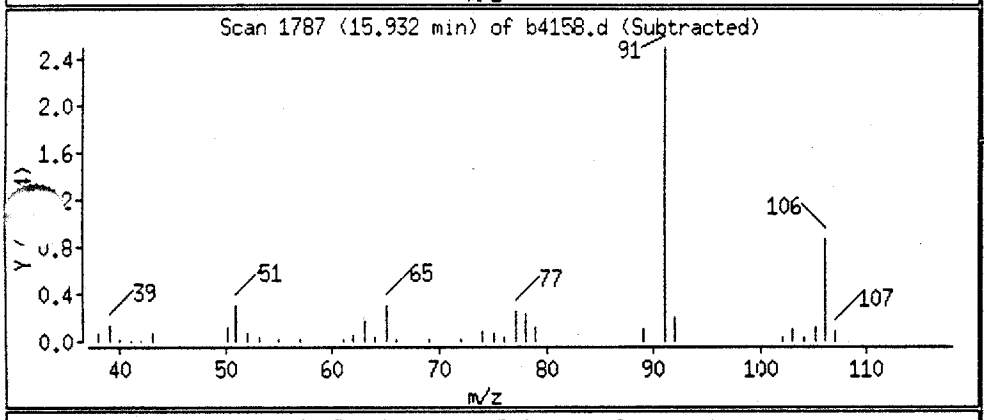
Column diameter : 0.53

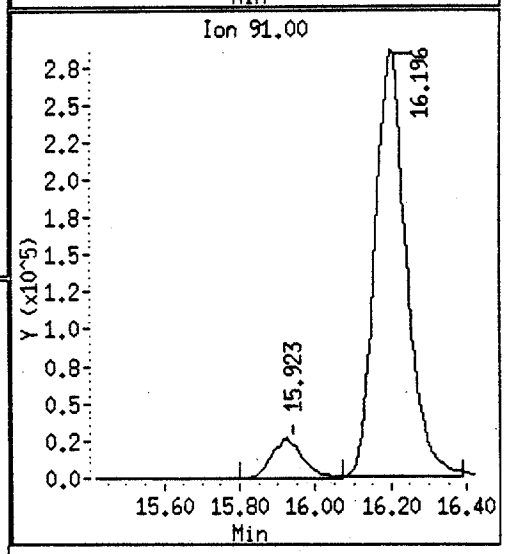
Volume Injected (uL) : 0.0

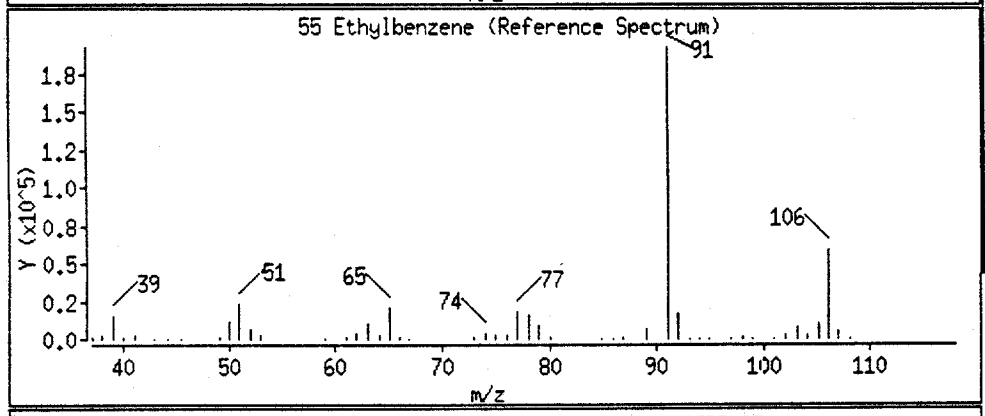
55 Ethylbenzene

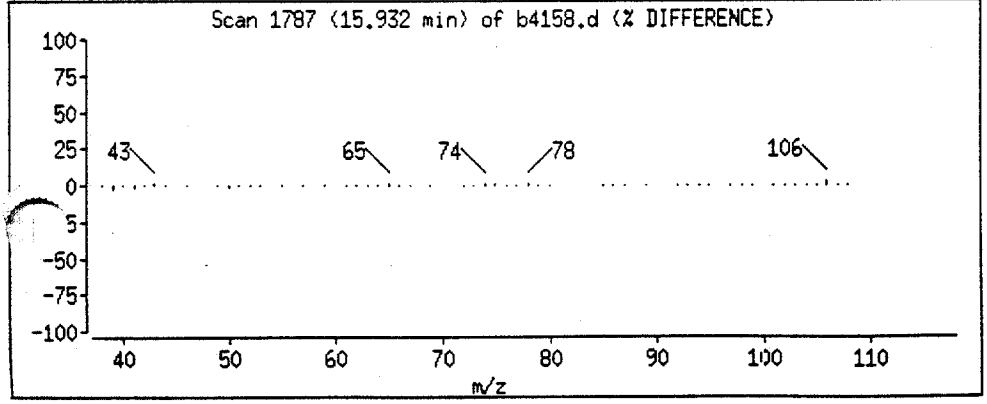












Data File: /chem/aux/msb.i/b062894.b/b4158.d

Date : 28-JUN-94 11:37

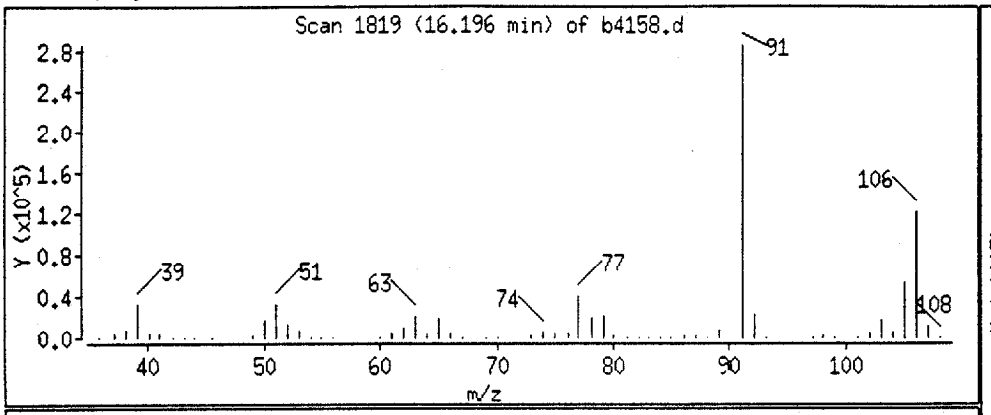
Instrument : msb.i

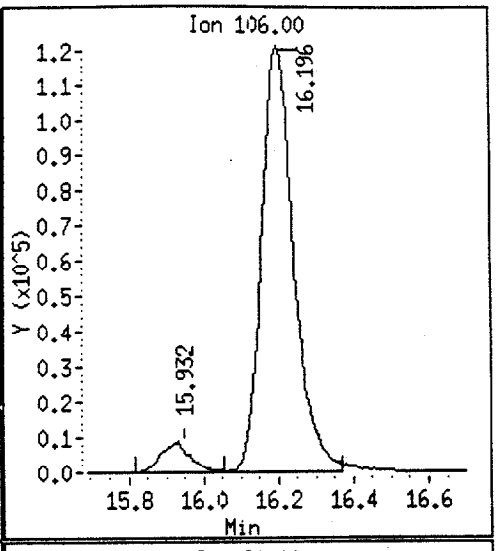
Sample ID :

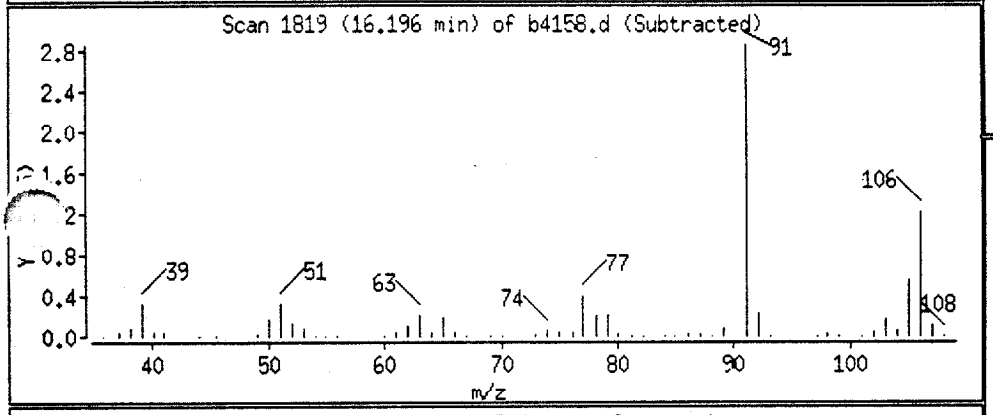
Column phase : J&W DB_624 Column diameter : 0.53

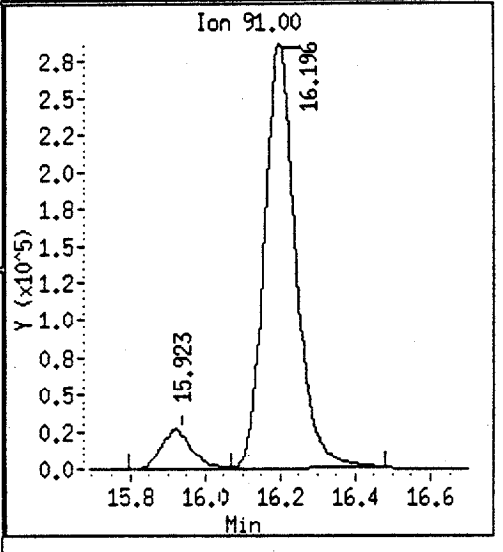
Volume Injected (uL) : 0.0

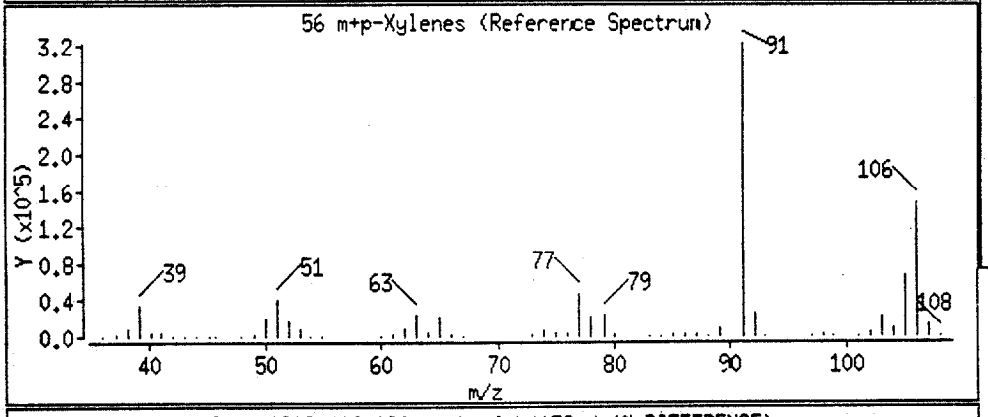
56 m+p-Xylenes

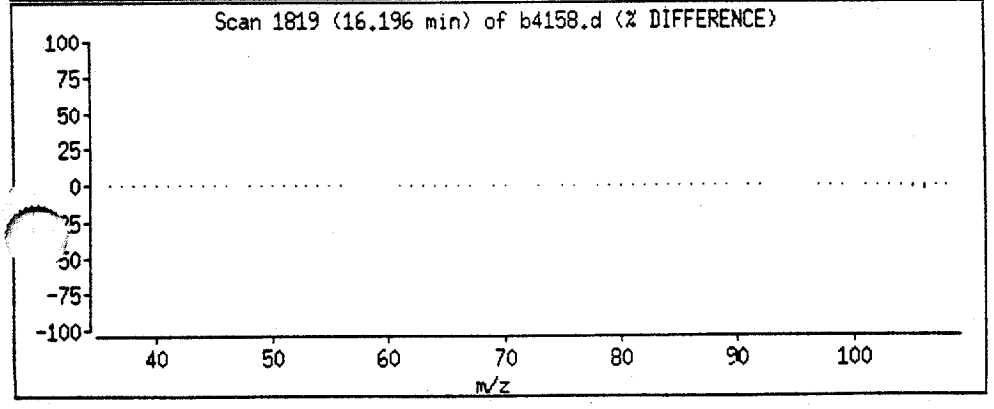












Data File: /chem/aux/msb.i/b062894.b/b4158.d

Date : 28-JUN-94 11:37

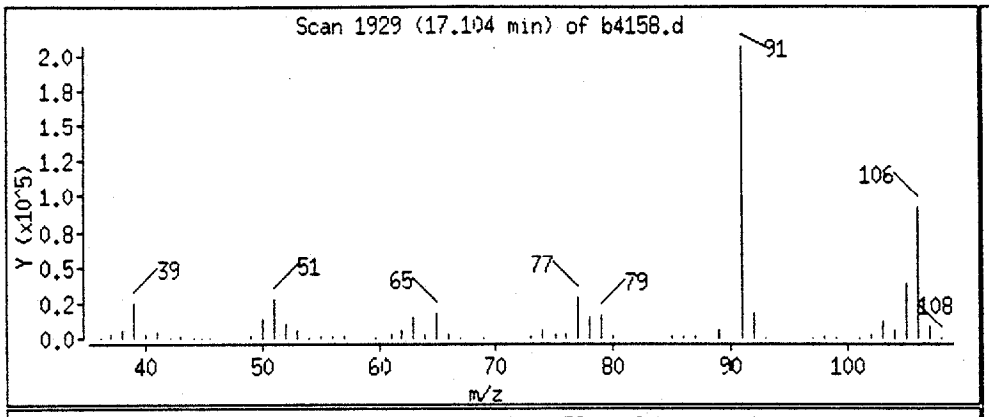
Instrument : msb.i

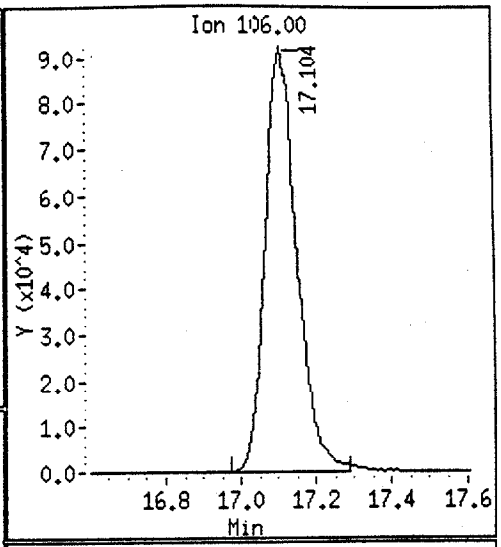
Sample ID :

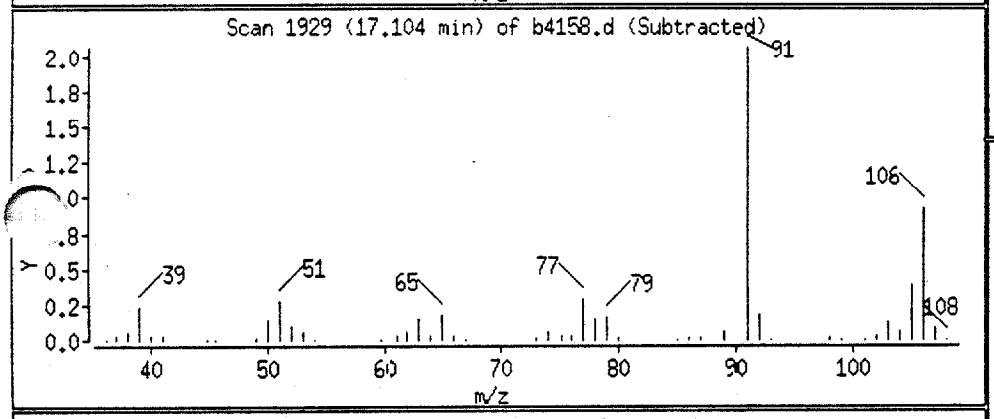
Column phase : J&W DB_624 Column diameter : 0.53

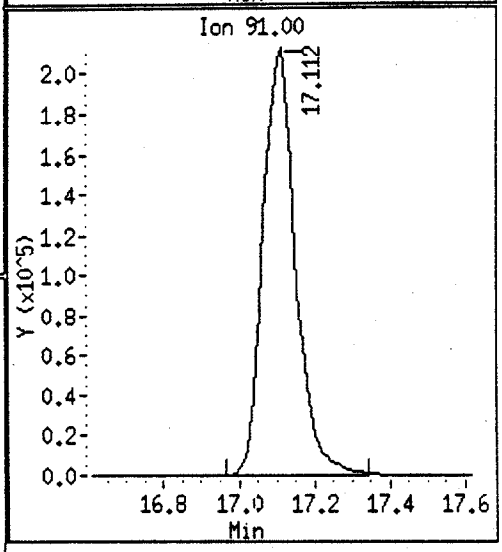
Volume Injected (uL) : 0.0

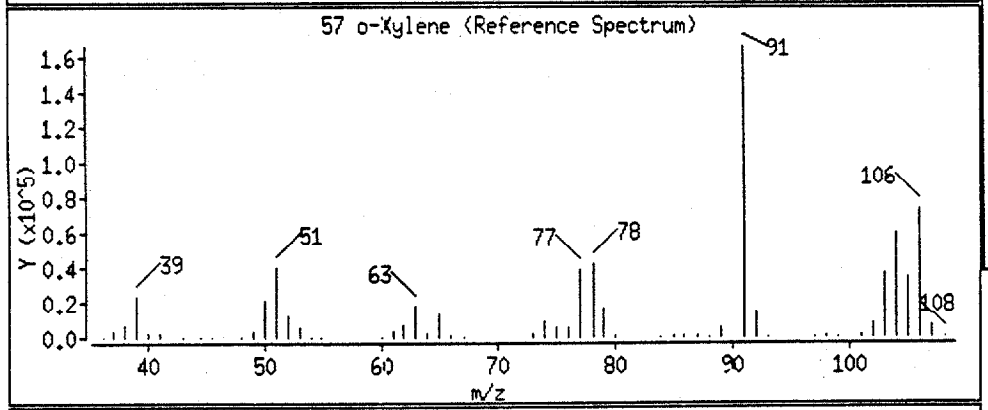
57 o-Xylene

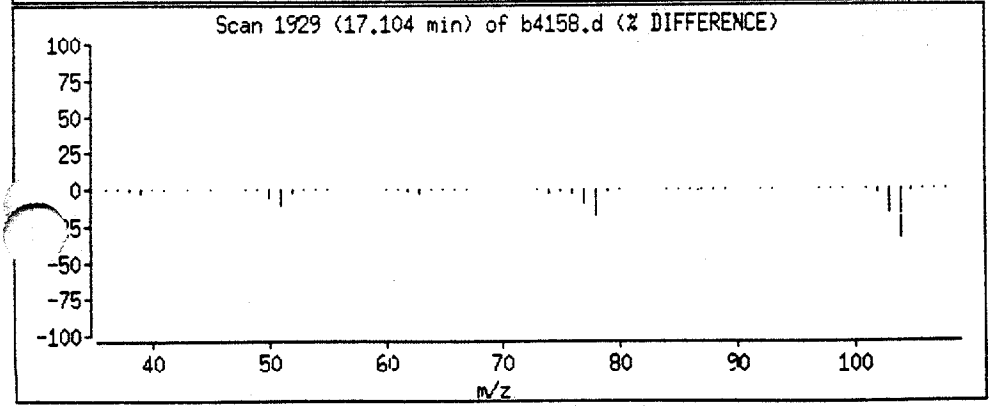












Data File: /chem/aux/msb.i/b062894.b/b4158.d

Date : 28-JUN-94 11:37

Instrument : msb.i

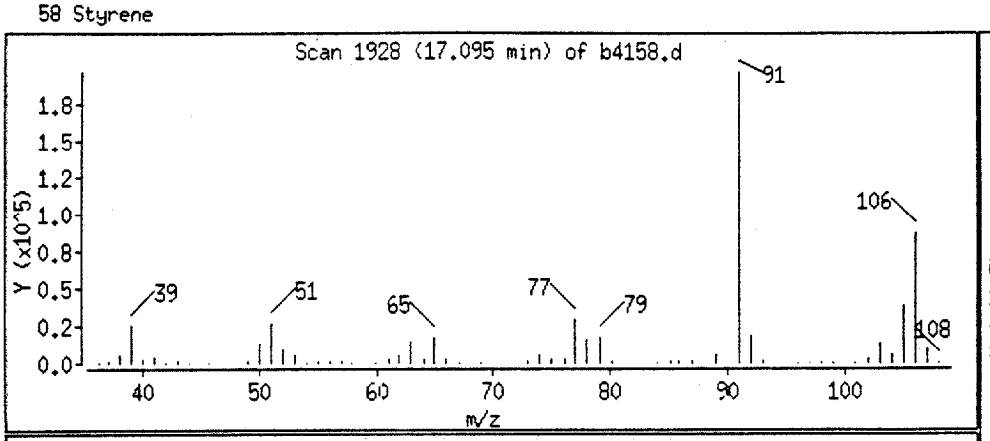
Sample ID :

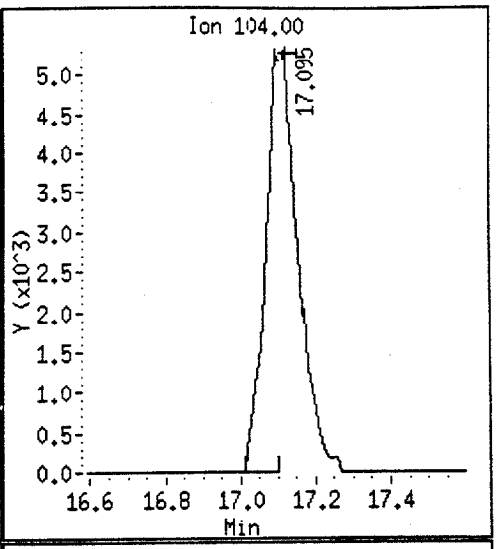
Column phase : J&W DB_624

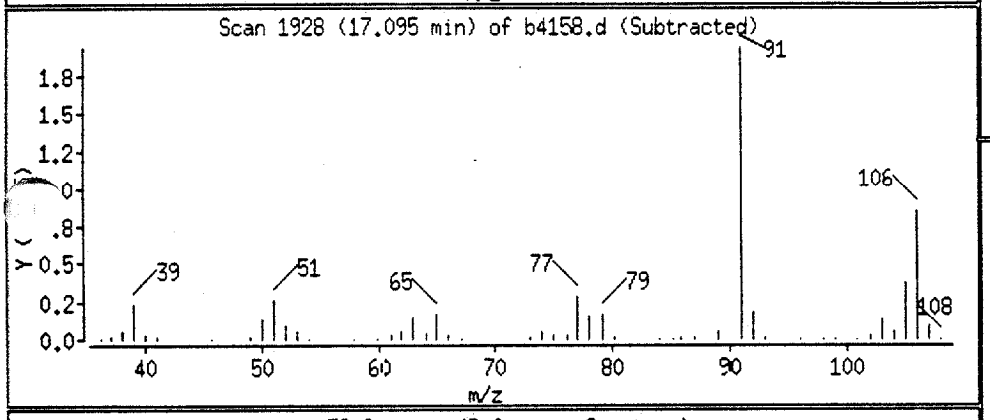
Column diameter : 0.53

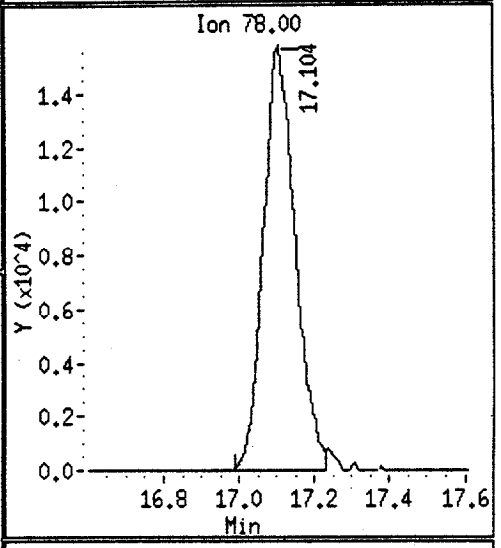
Volume Injected (uL) : 0.0

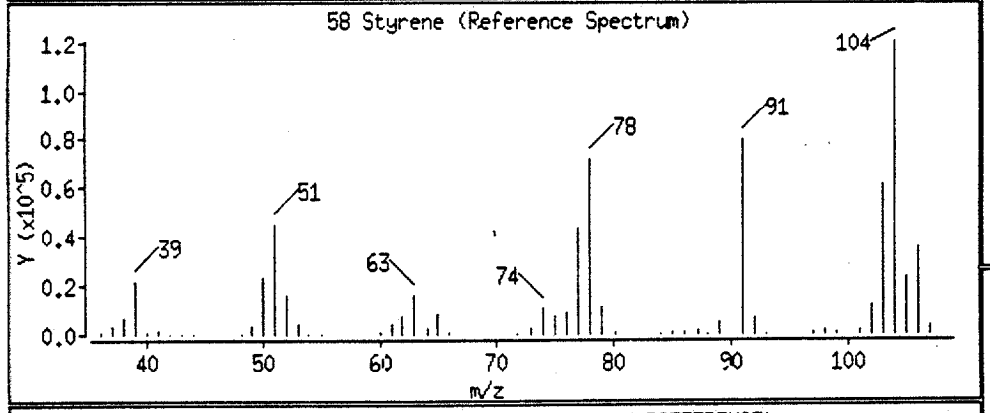
58 Styrene

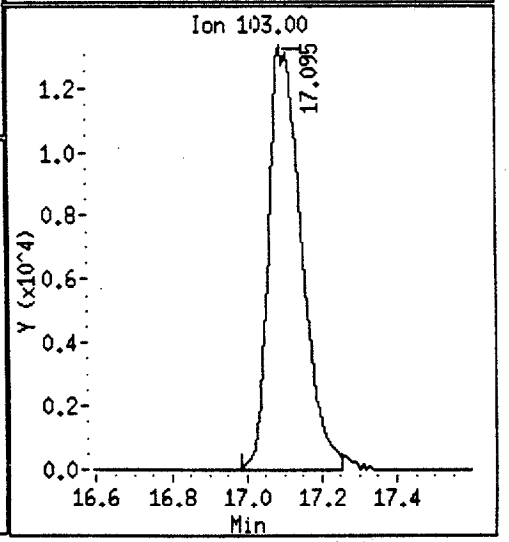


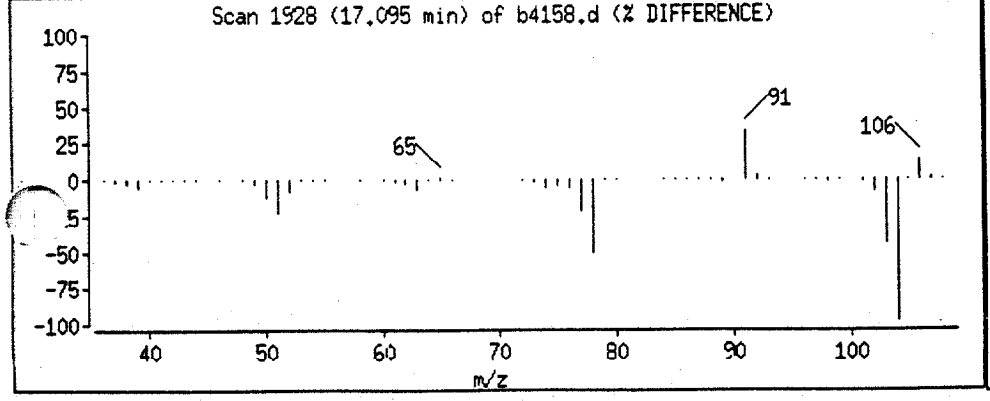












Data File: /chem/aux/msb.i/b062894.b/b4158.d

Date : 28-JUN-94 11:37

Instrument : msb.i

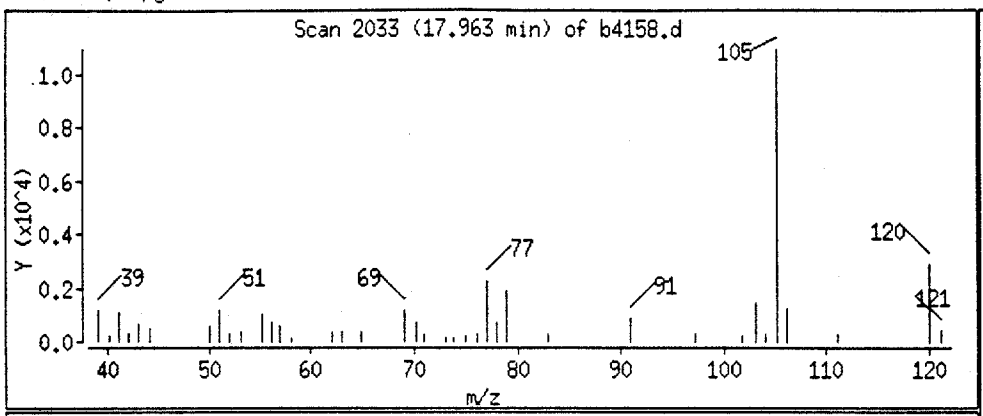
Sample ID :

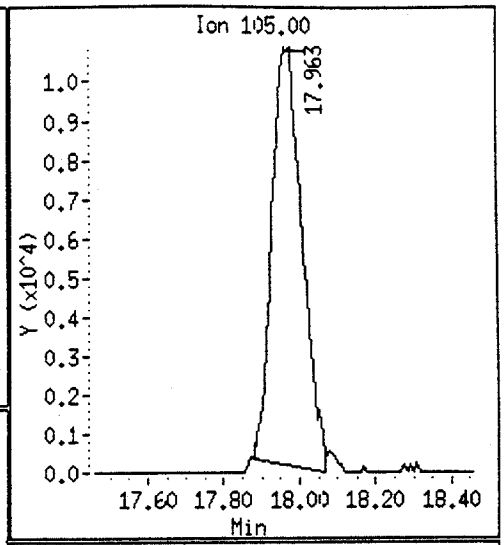
Column phase : J&W DB_624

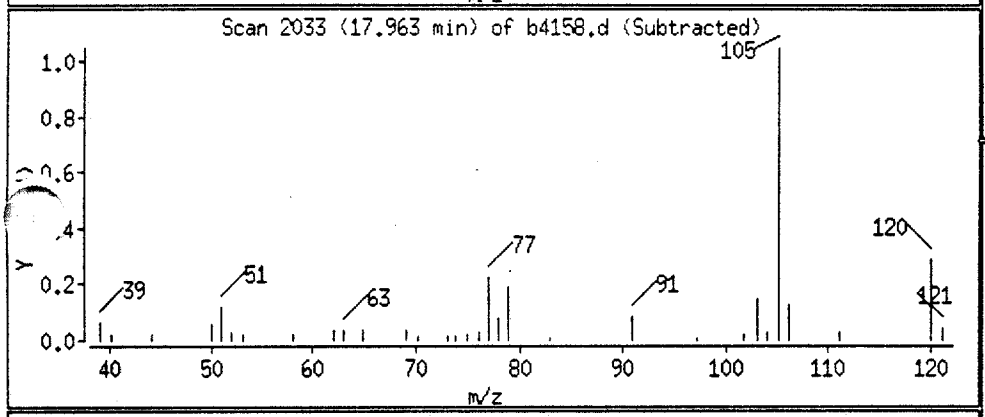
Column diameter : 0.53

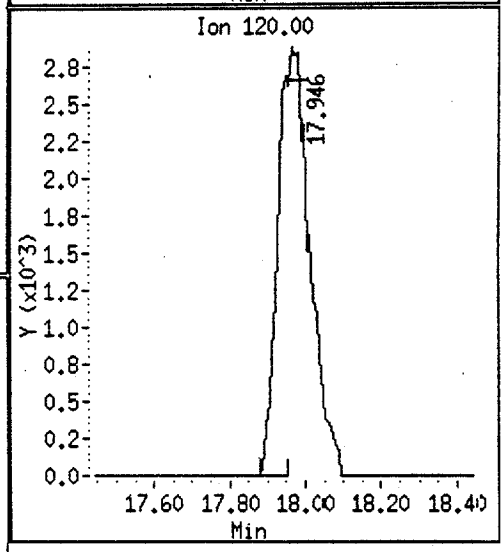
Volume Injected (uL) : 0.0

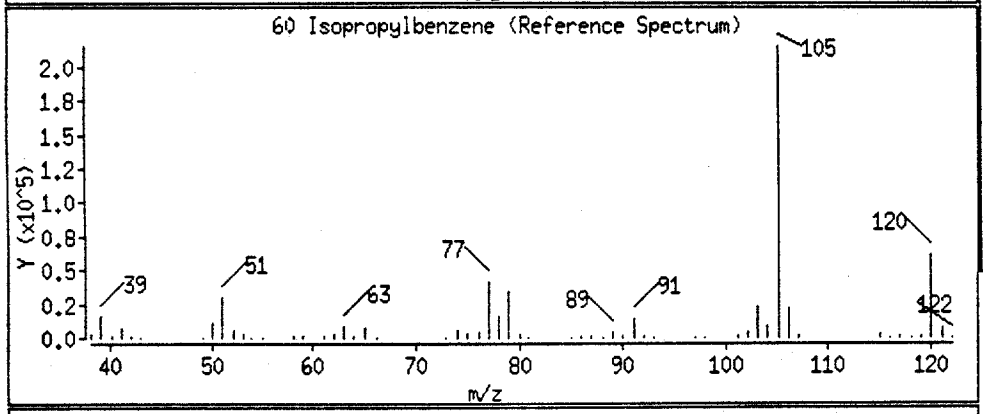
60 Isopropylbenzene

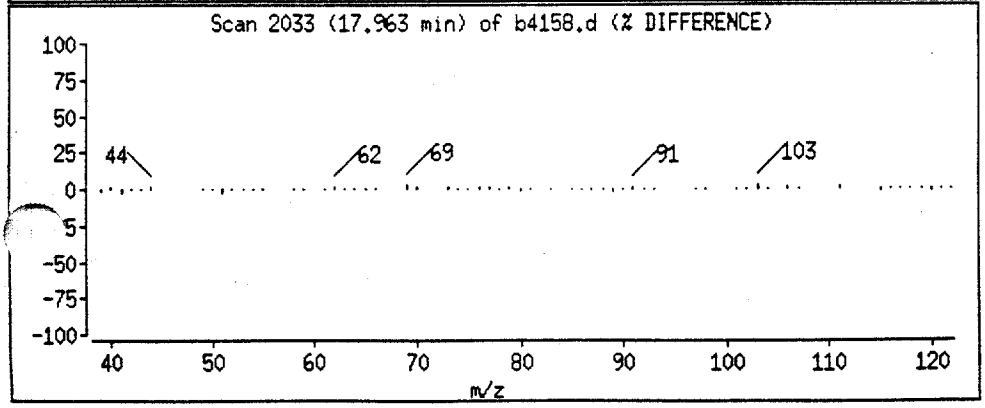












Data File: /chem/aux/msb.i/b062894.b/b4158.d

Date : 28-JUN-94 11:37

Instrument : msb.i

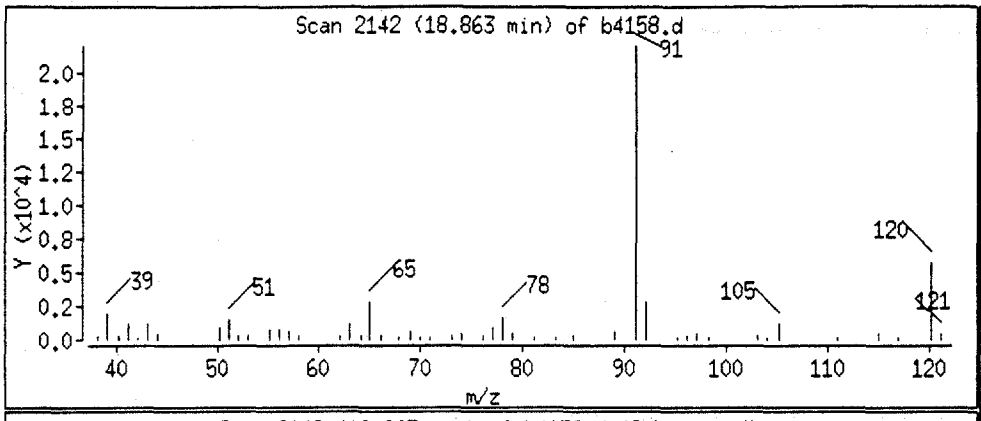
Sample ID :

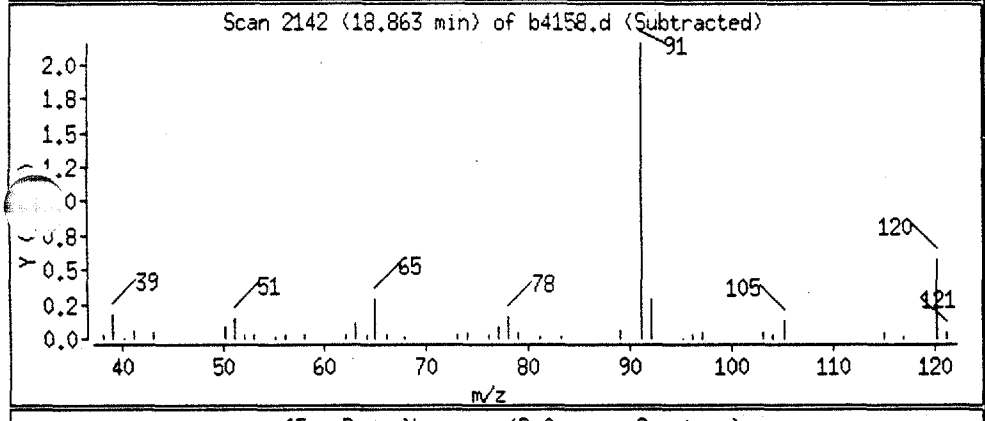
Column phase : J&W DB_624

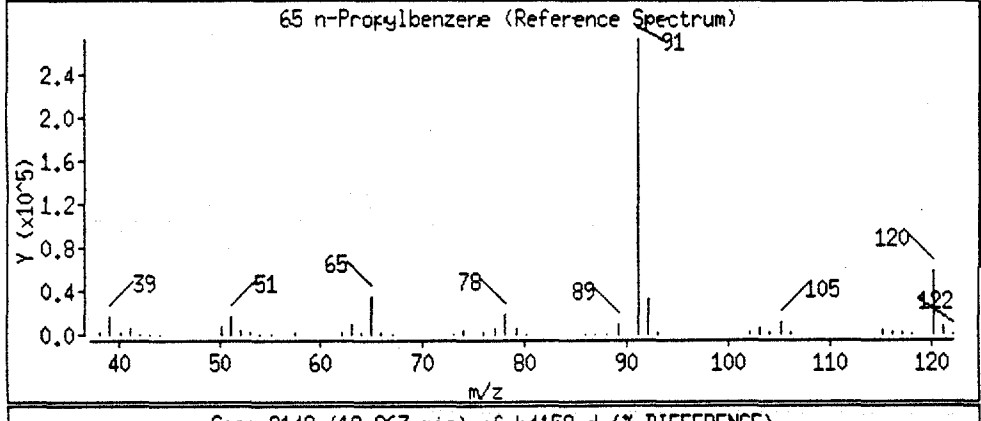
Column diameter : 0.53

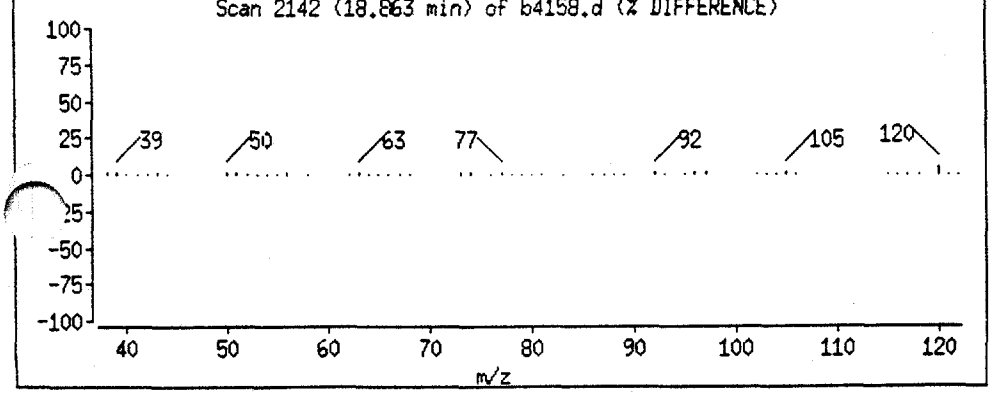
Volume Injected (uL) : 0.0

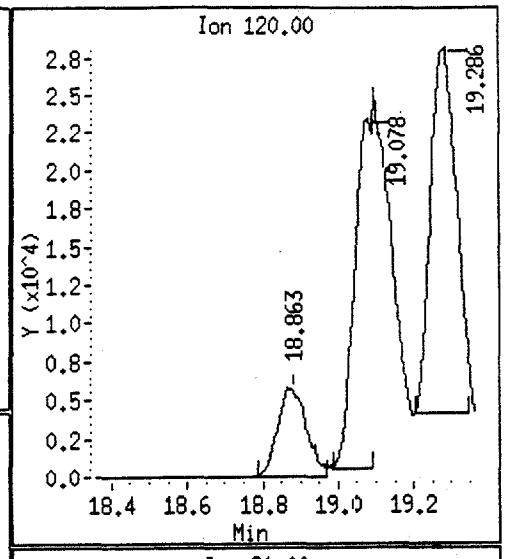
65 n-Propylbenzene

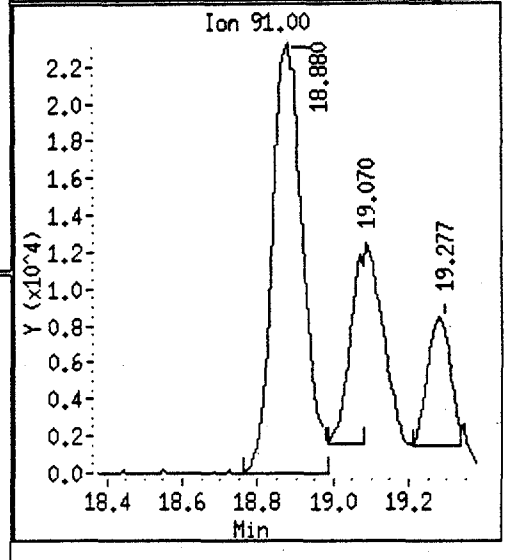












Data File: /chem/aux/msb.i/b062894.b/b4158.d

Date : 28-JUN-94 11:37

Instrument : msb.i

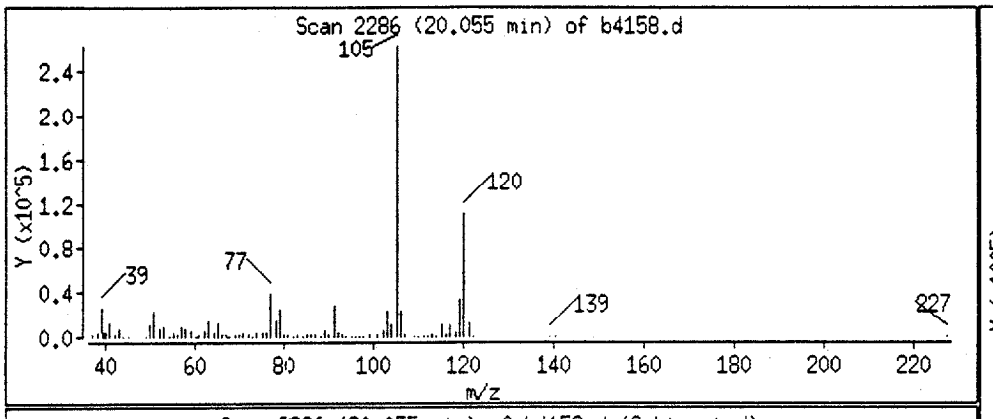
Sample ID :

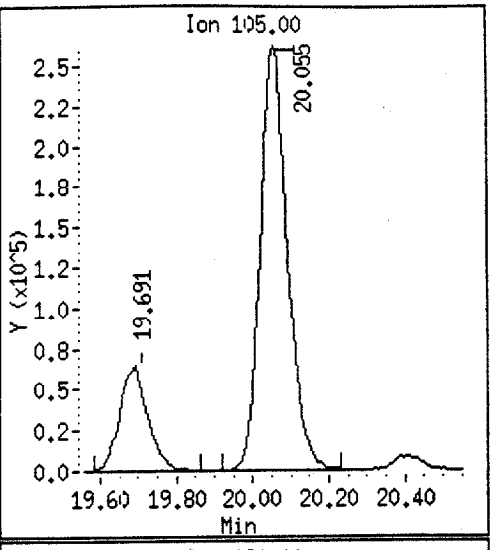
Column phase : J&W DB_624

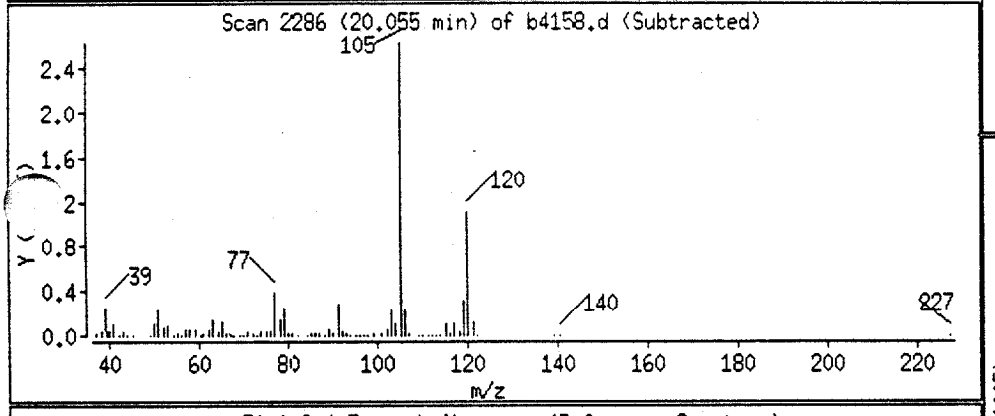
Column diameter : 0.53

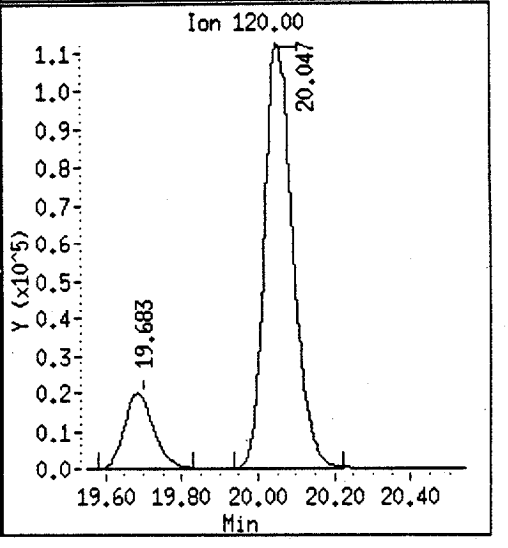
Volume Injected (uL) : 0.0

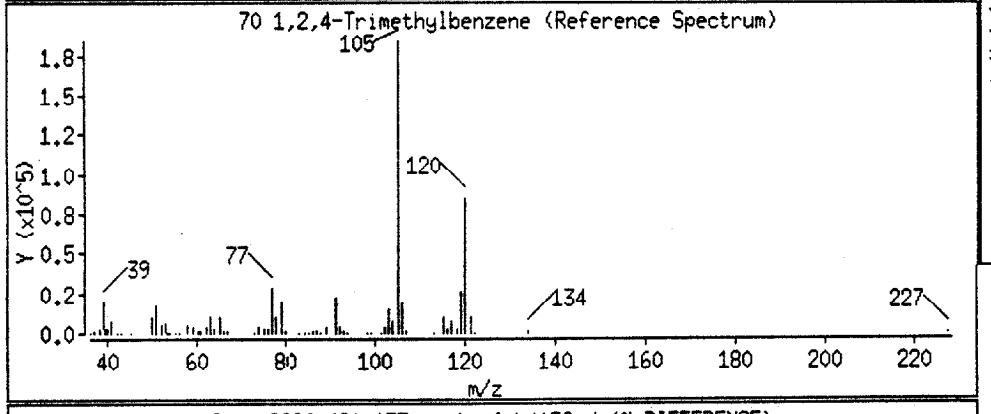
70 1,2,4-Trimethylbenzene

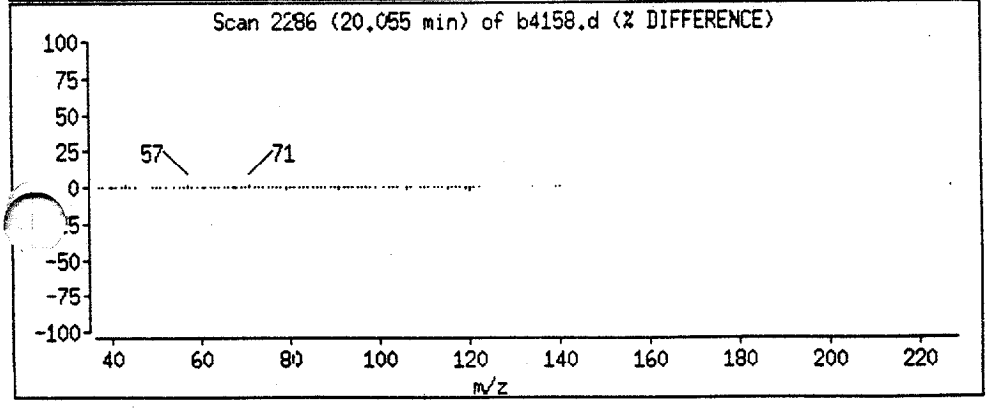












Data File: /chem/aux/msb.i/b062894.b/b4158.d

Date : 28-JUN-94 11:37

Instrument : msb.i

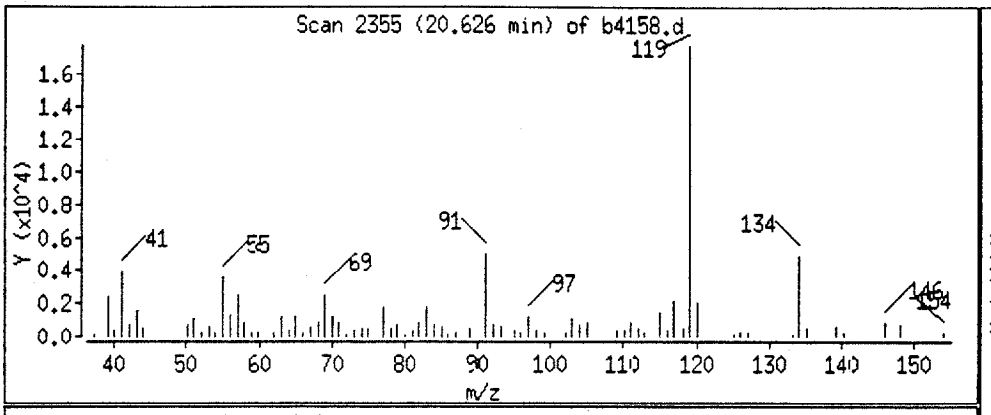
Sample ID :

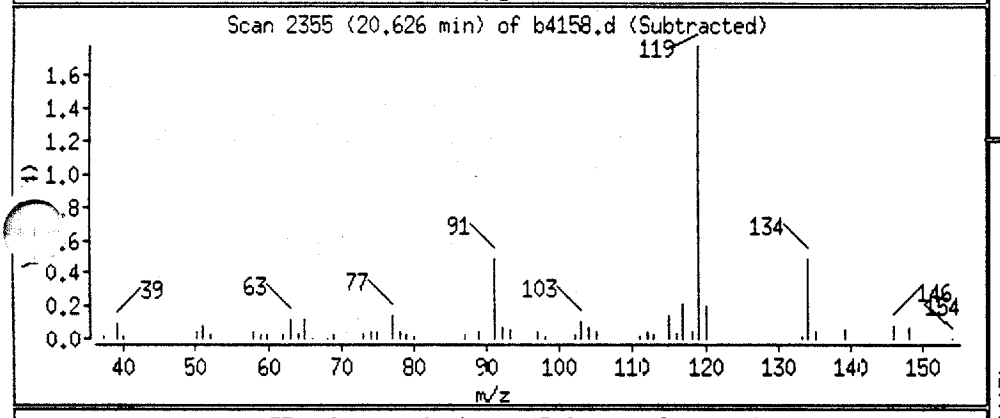
Column phase : J&W DB_624

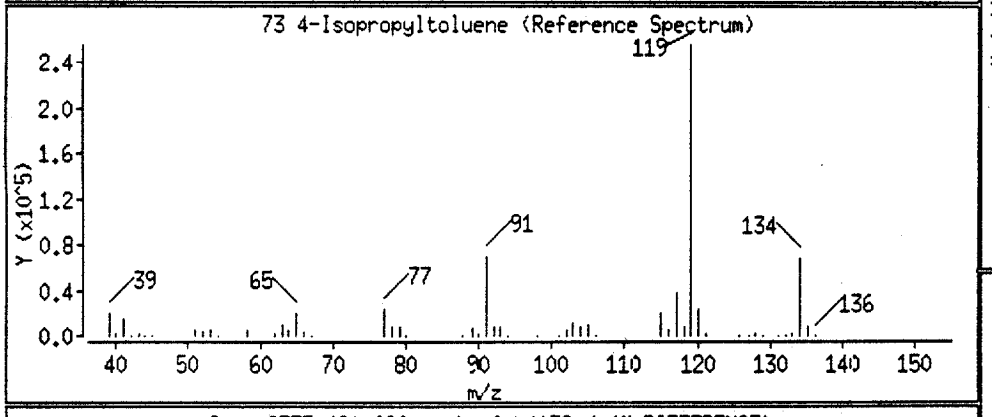
Column diameter : 0.53

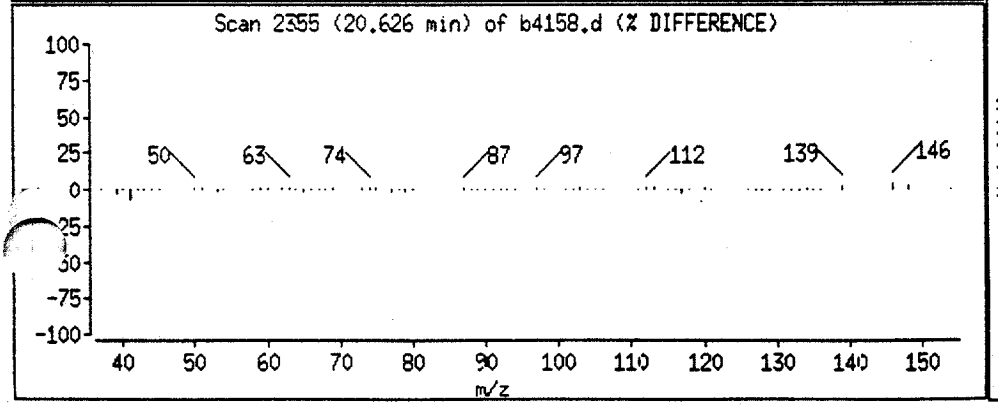
Volume Injected (uL) : 0.0

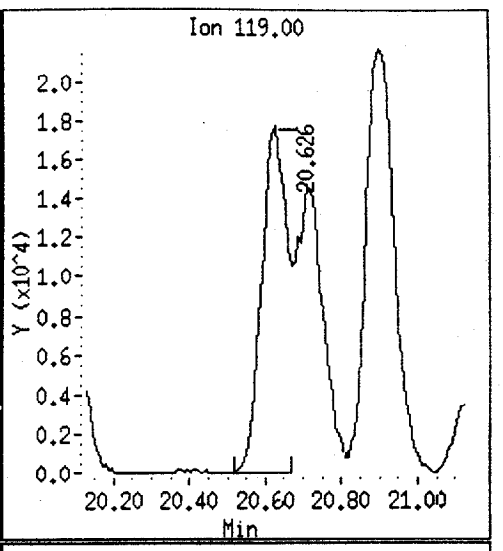
73 4-Isopropyltoluene

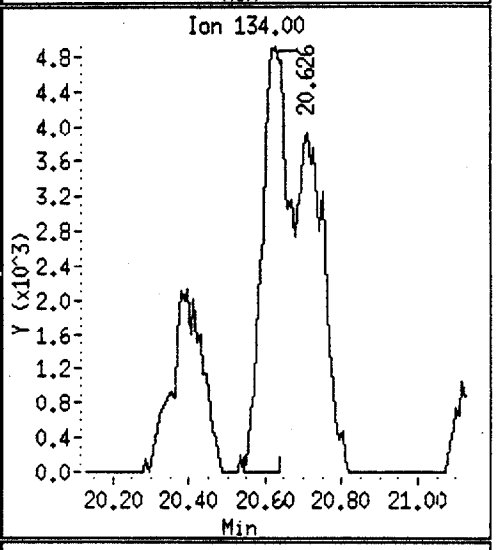


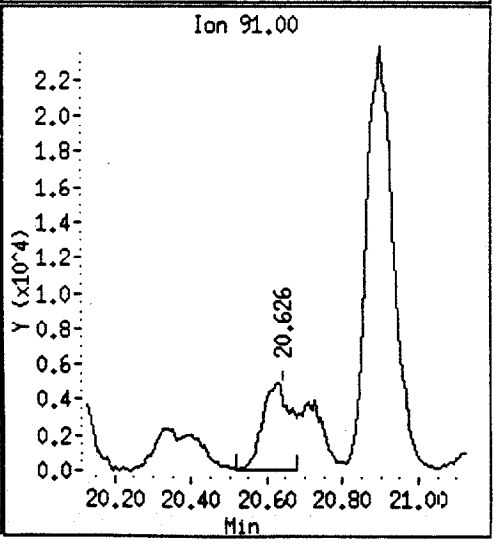












Data File: /chem/aux/msb.i/b062894.b/b4158.d

Date : 28-JUN-94 11:37

Instrument : msb.i

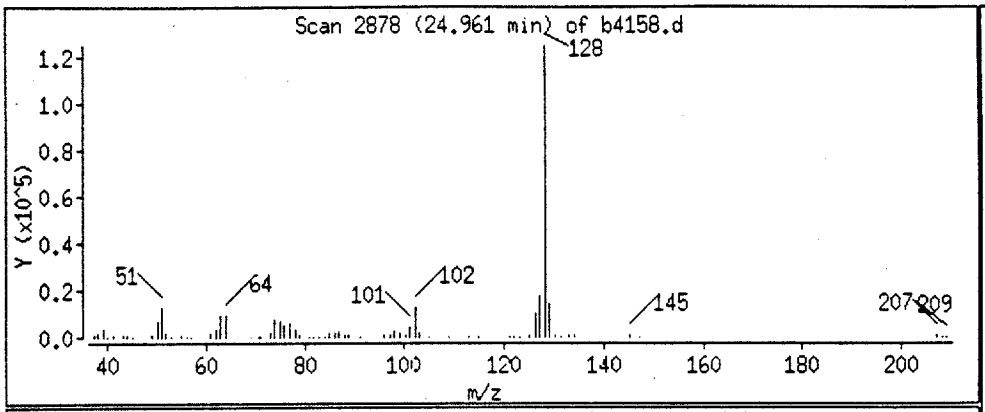
Sample ID :

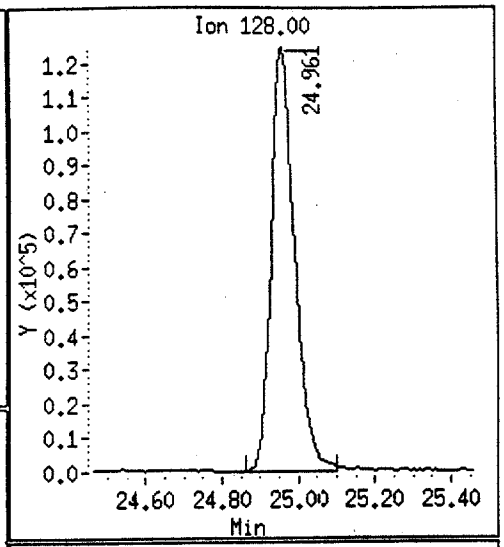
Column phase : J&W DB_624

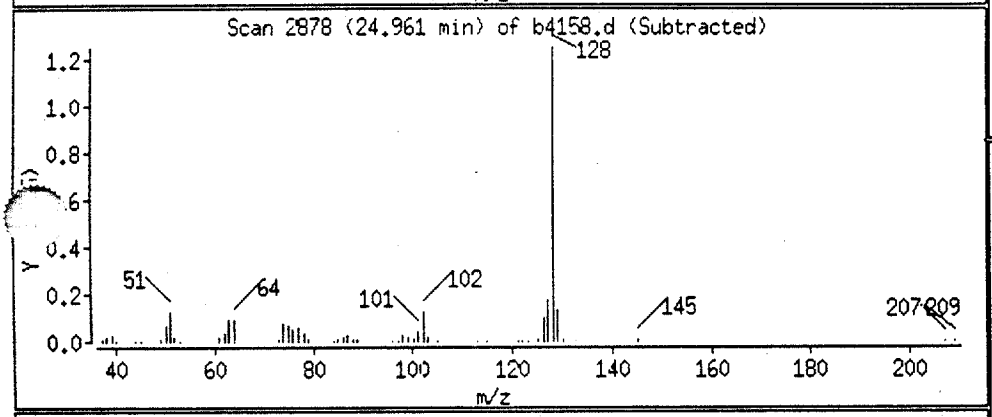
Column diameter : 0.53

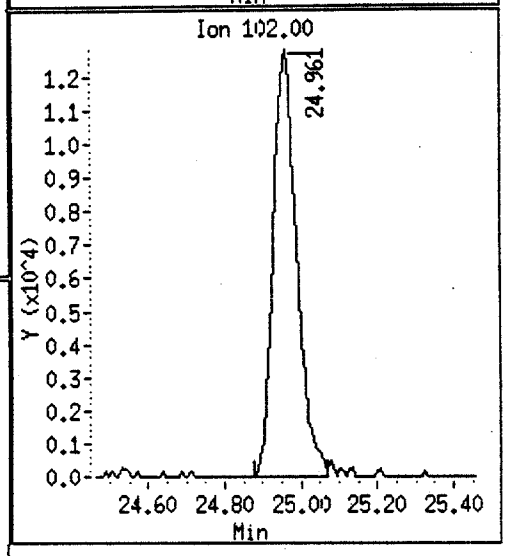
Volume Injected (uL) : 0.0

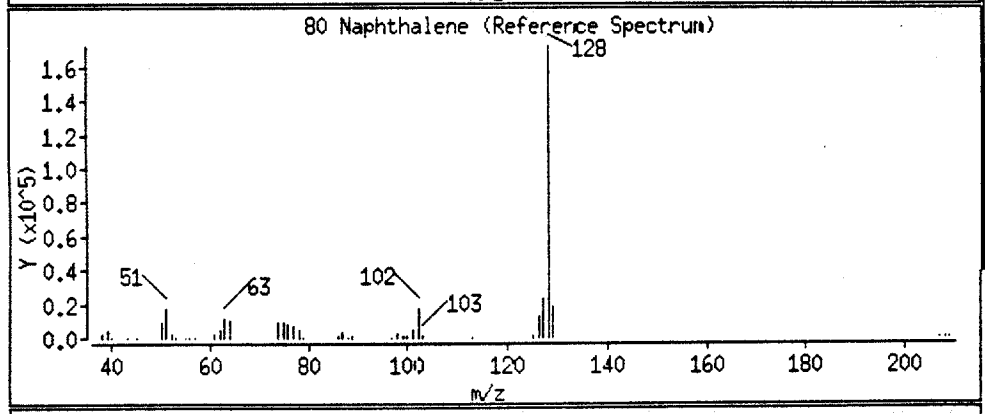
80 Naphthalene

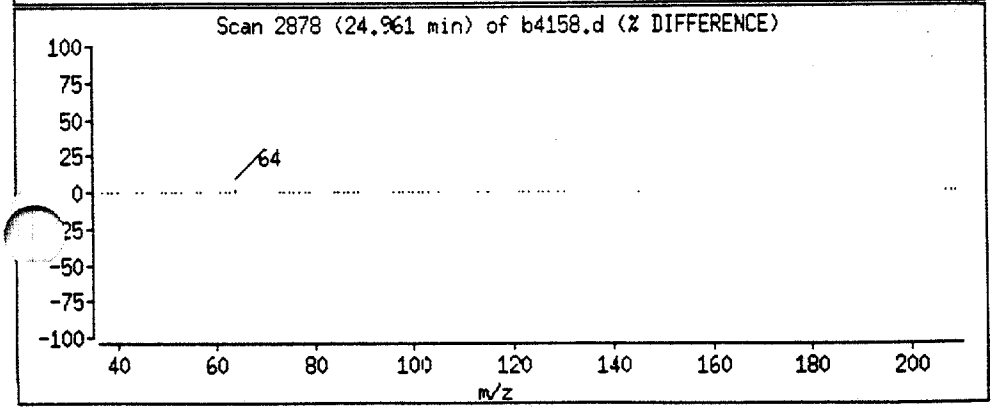












Data File: /chem/aux/msb.i/b062894.b/b4158.d

Date : 28-JUN-94 11:37

Instrument : msb.i

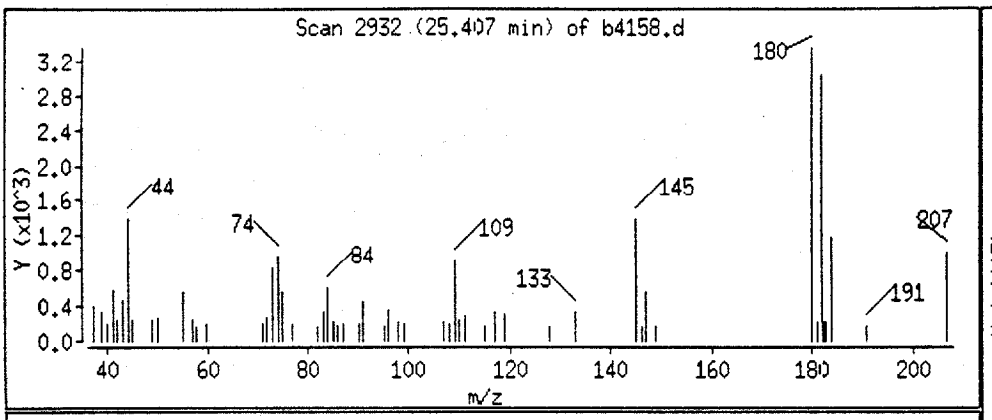
Sample ID :

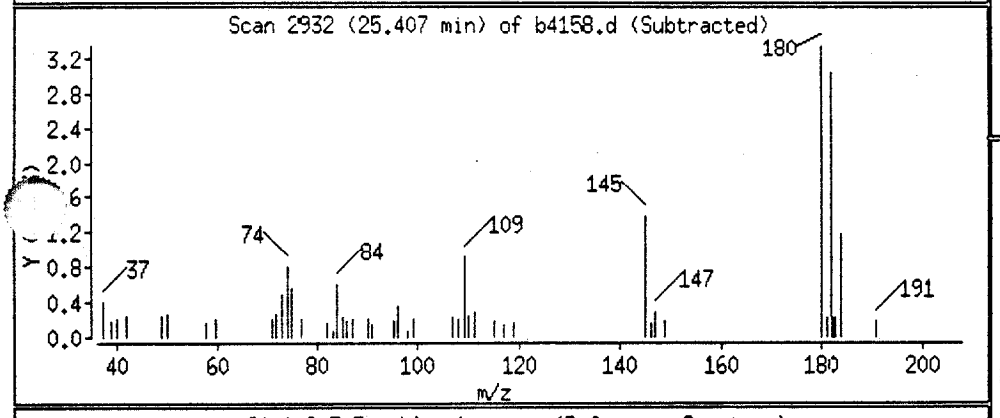
Column phase : J&W DB_624

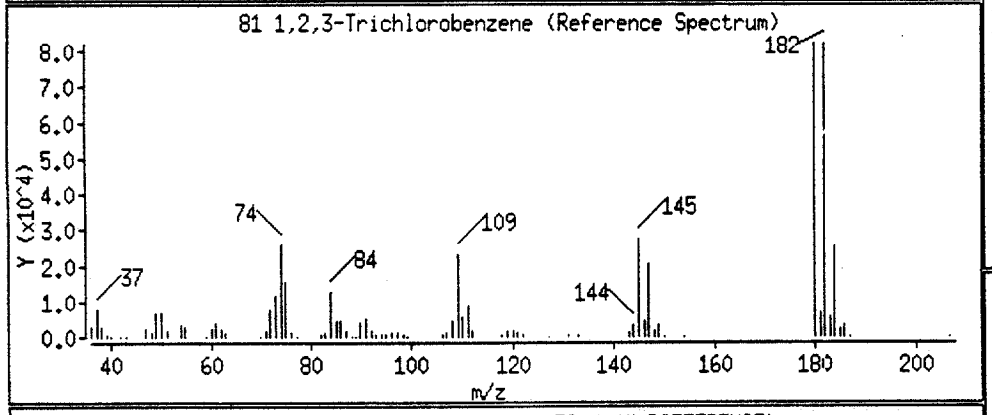
Column diameter : 0.53

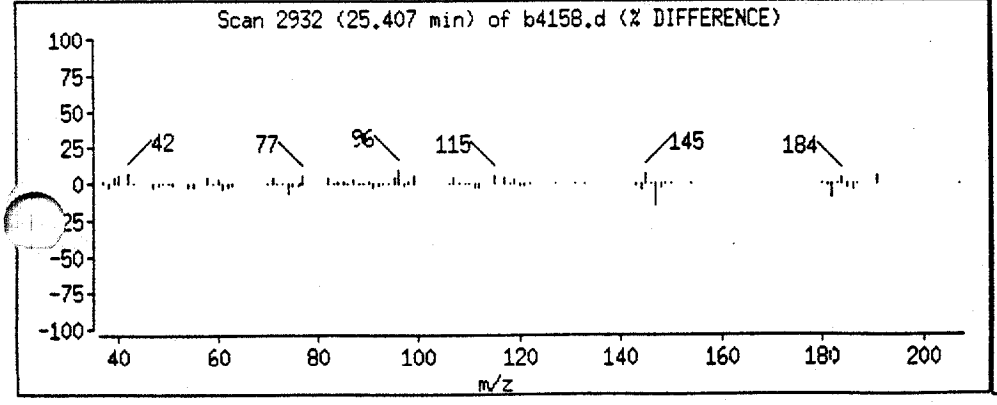
Volume Injected (uL) : 0.0

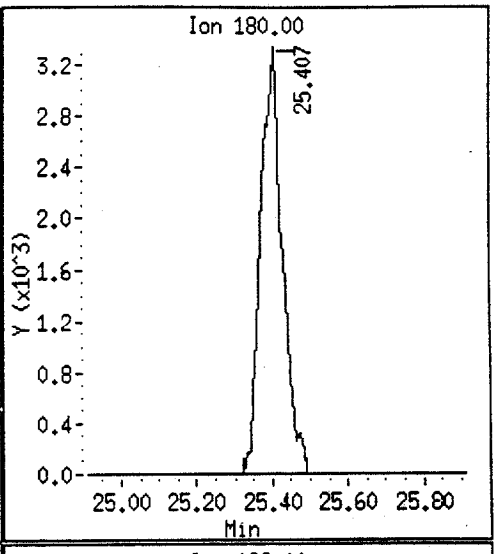
81 1,2,3-Trichlorobenzene

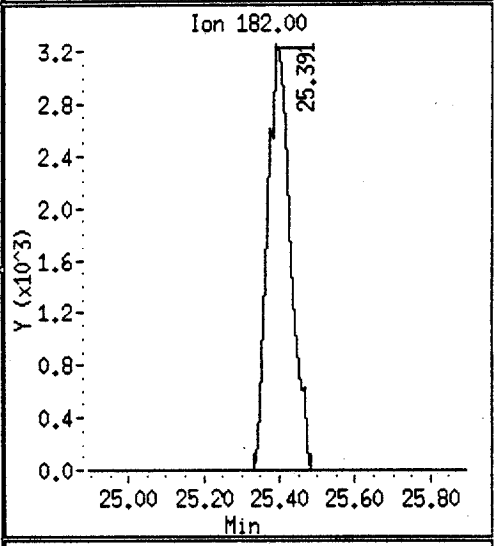


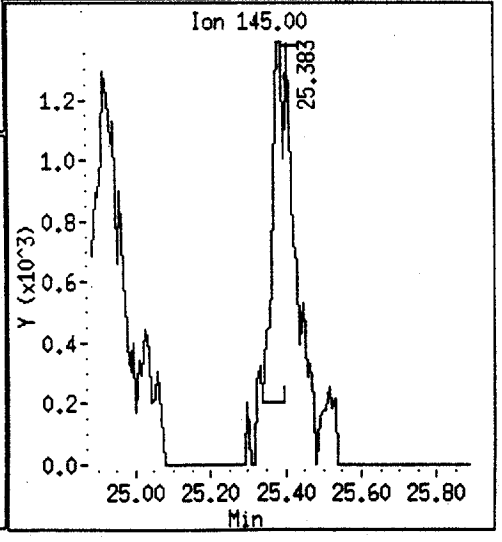








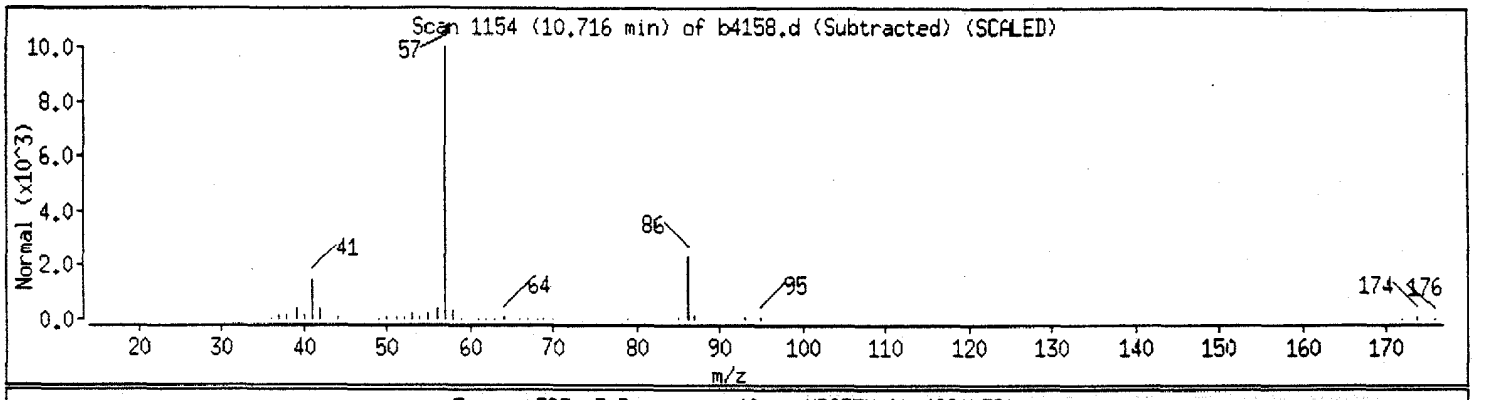


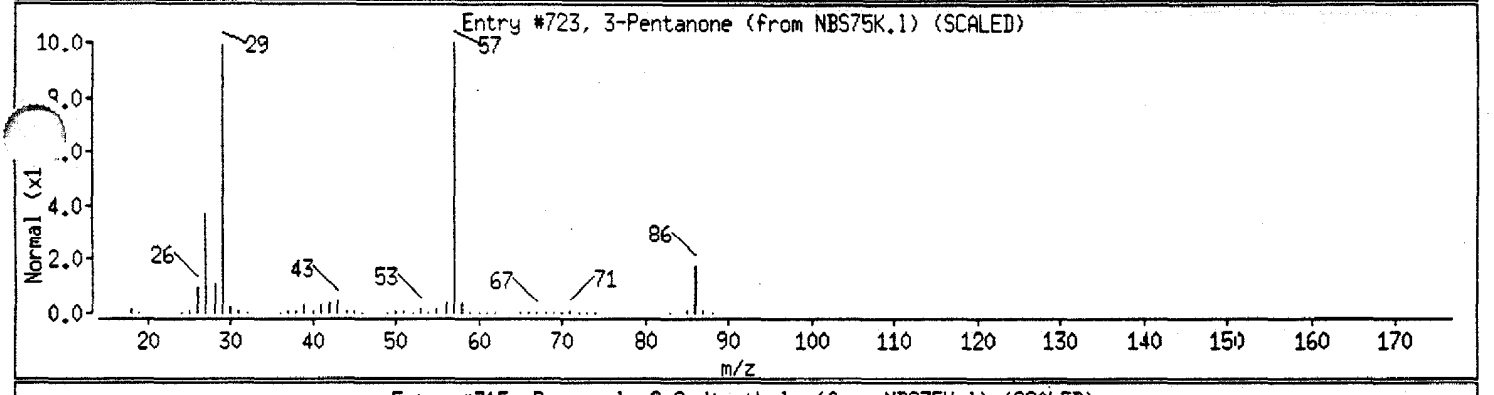


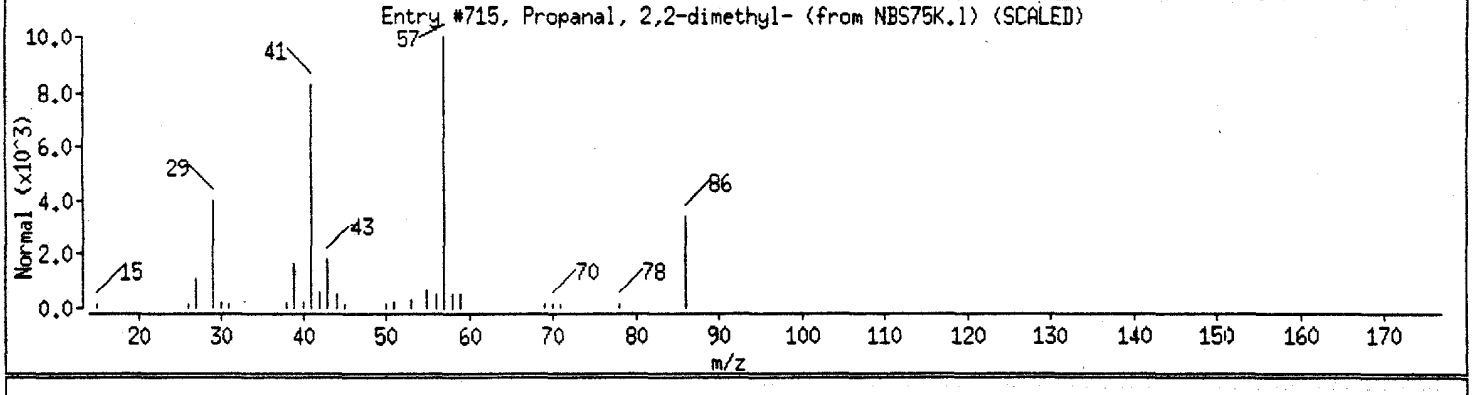
Data File: /chem/aux/msb.i/b062894.b/b4158.d

Date : 28-JUN-94 11:37
Instrument : msb.i
Sample ID :
Column phase : J&W DB_624
Column diameter : 0.53
Volume Injected (uL) : 0.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
3-Pentanone	96-22-0	NBS75K.1	723	80
Propanal, 2,2-dimethyl-	630-19-3	NBS75K.1	715	50

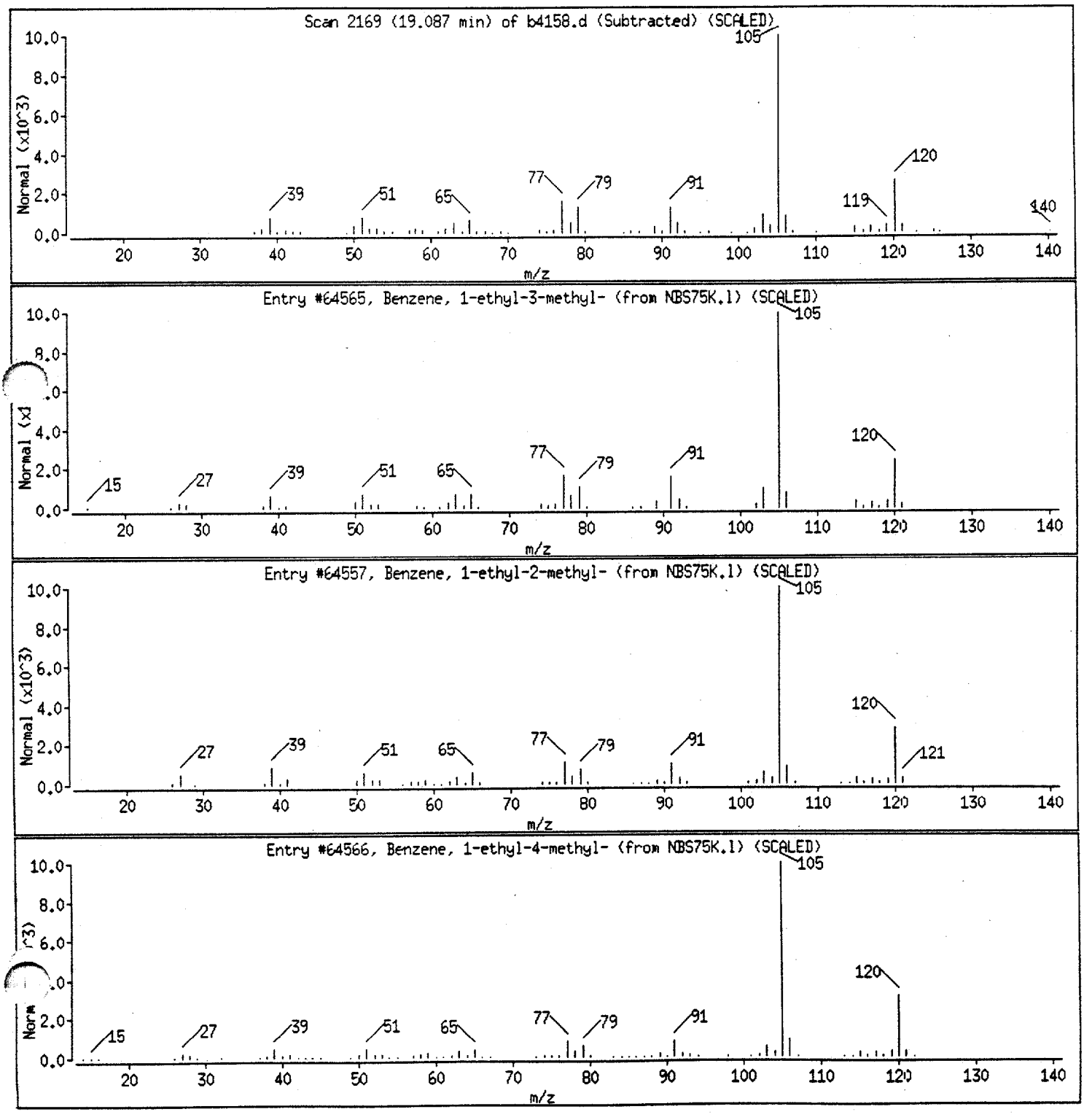






Data File: /chem/aux/msb.i/b062894.b/b4158.d
Date : 28-JUN-94 11:37
Instrument : msb.i
Sample ID :
Column phase : J&W DB_624
Column diameter : 0.53
Volume Injected (uL) : 0.0

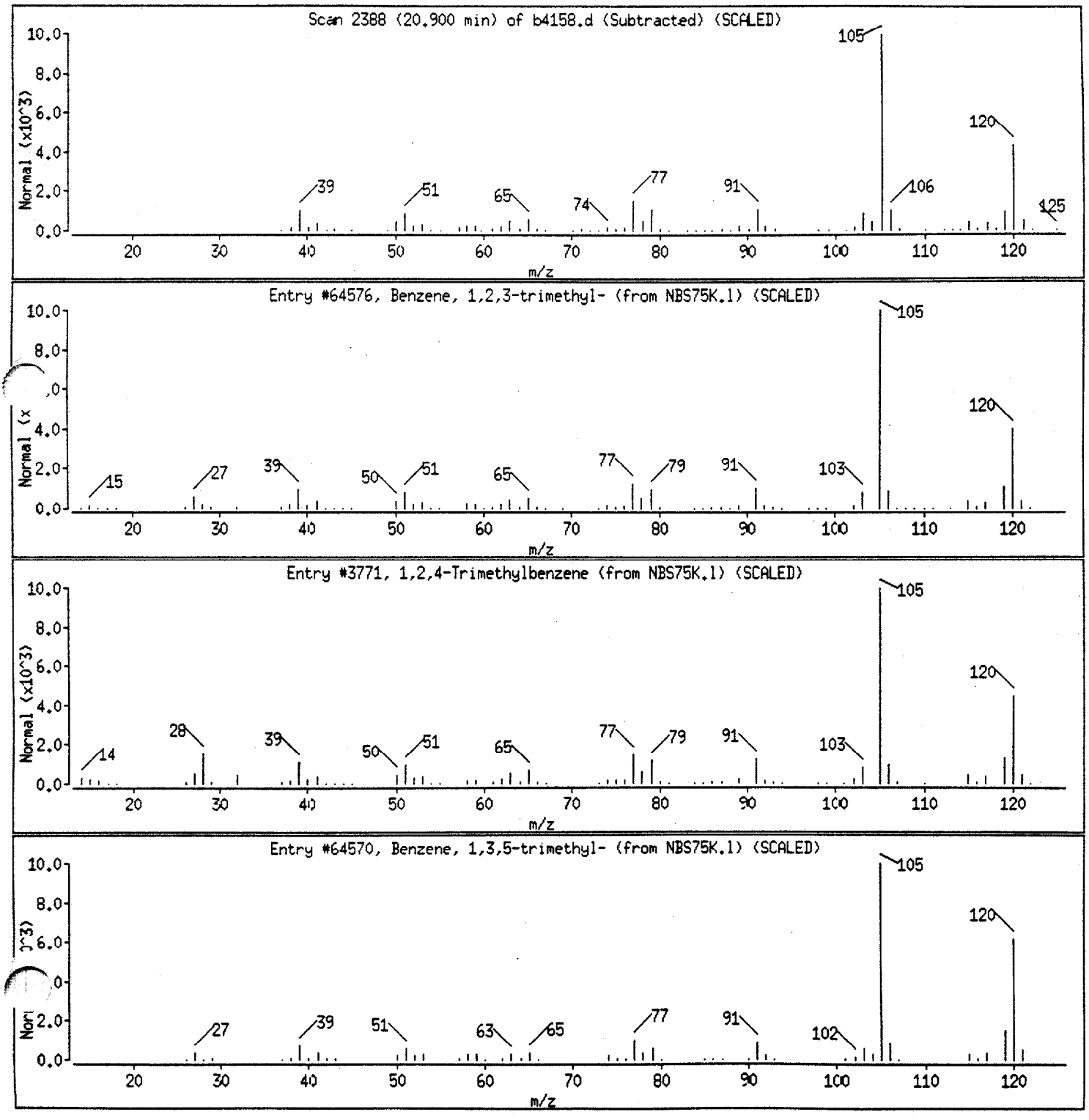
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Benzene, 1-ethyl-3-methyl-	620-14-4	NBS75K.1	64565	97
Benzene, 1-ethyl-2-methyl-	611-14-3	NBS75K.1	64557	94
Benzene, 1-ethyl-4-methyl-	622-96-8	NBS75K.1	64566	91



Data File: /chem/aux/msb.i/b062894.b/b4158.d

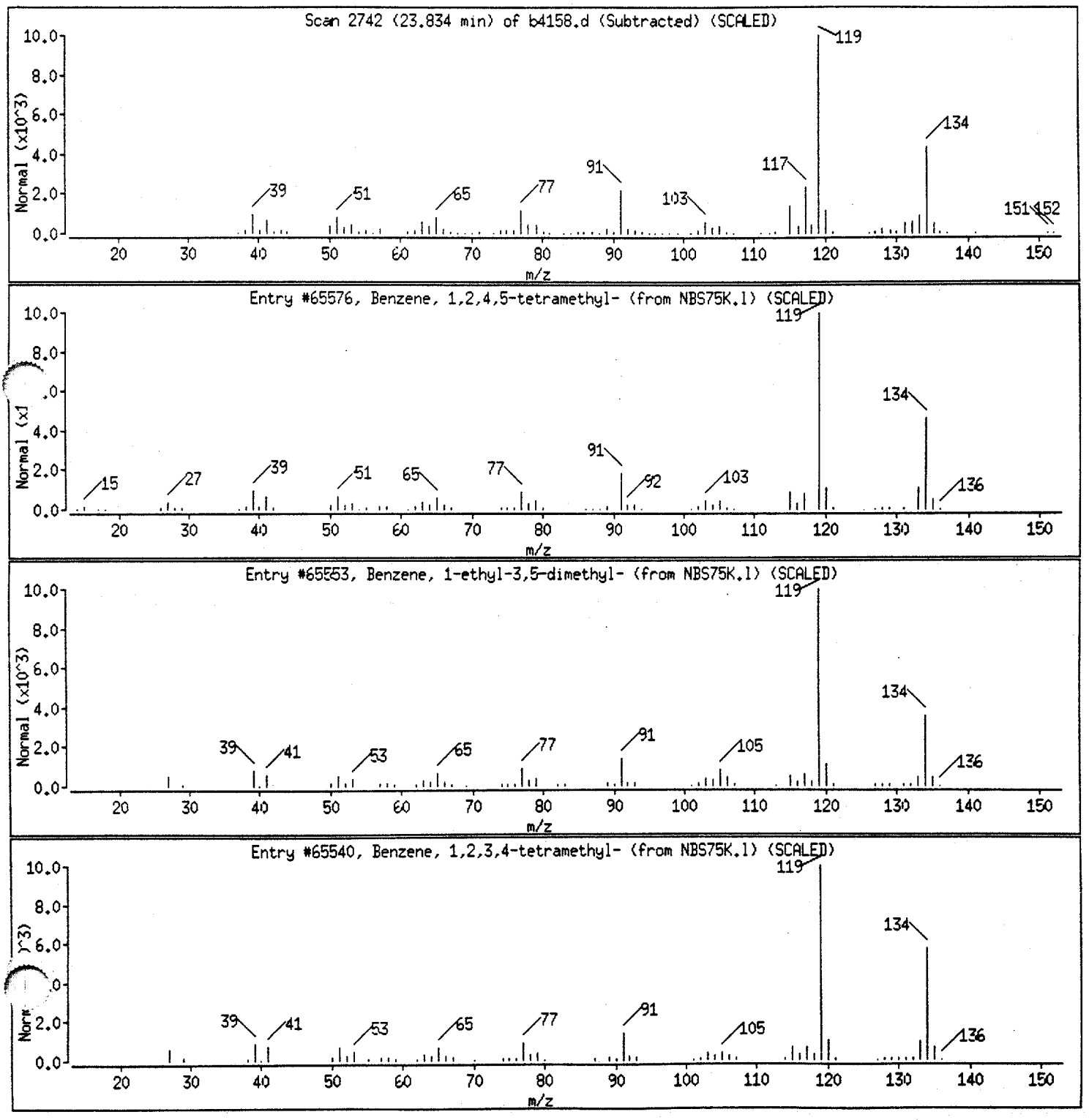
Date : 28-JUN-94 11:37
Instrument : msb.i
Sample ID :
Column phase : J&W DB_624
Column diameter : 0.53
Volume Injected (uL) : 0.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Benzene, 1,2,3-trimethyl-	526-73-8	NBS75K.1	64576	97
1,2,4-Trimethylbenzene	95-36-3	NBS75K.1	3771	96
Benzene, 1,3,5-trimethyl-	108-67-8	NBS75K.1	64570	95



Data File: /chem/aux/msb.i/b062894.b/b4158.d
Date : 28-JUN-94 11:37
Instrument : msb.i
Sample ID :
Column phase : J&W DB_624 Column diameter : 0.53
Volume Injected (uL) : 0.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Benzene, 1,2,4,5-tetramethyl-	95-93-2	NBS75K.1	65576	94
Benzene, 1-ethyl-3,5-dimethyl-	934-74-7	NBS75K.1	65553	87
Benzene, 1,2,3,4-tetramethyl-	488-23-3	NBS75K.1	65540	87



SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

0250

Lab Name: ASC Contract: ACKS17

Lab Code: — Case No.: — SAS No.: — SDG No.: CW017

Level: (low/med) Low

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLKC1	107	110	114		0
02	VSPKC1	104	107	109		
03	CW019MS	117	111	106		
04	CW019MSD	113	106	100		
05	CW019	111	102	112		
06	CW017	101	96.4	105		
07						
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30						

	QC LIMITS
SMC1 (TOL) = Toluene-d8	(84-138)
SMC2 (BFB) = Bromofluorobenzene	(59-113)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

0251

Lab Name: ASC Contract: NASA

Lab Code: — Case No.: — SAS No.: — SDG No.: CW17

Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLK02	100	~~191~~	105		~~0~~
02	VSPK02	110	106	108		~~0~~
03	C6616MS	109	91.2	111		~~0~~
04	C6616MSD	115	100	114		~~0~~
05	CW118	127	87.3	117		~~0~~
06	C6620	118	85.3	116		~~0~~
07						
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09						
10						
11						
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	QC LIMITS
SMC1 (TOL) = Toluene-d8	(84-138)
SMC2 (BFB) = Bromofluorobenzene	(59-113)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

0252

Lab Name: ASC Contract: NUSA

Lab Code: ____ Case No.: ____ SAS No.: ____ SDG No.: CUU17

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLK02	100	100	111		0
02	VSBK02	92.6	91.4	96.0		0
03	CUU21MS	94.8	94.8	94.8		0
04	CUU21MSD	101	99.6	99.0		0
05	CUU21	97.8	96.4	97.8		0
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	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

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: C6617

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VOA BLK01	91.8	92.4	99.8		0
02	VOA SPK01	98.2	98.0	110		0
03	C6622	105	105	110		0
04	C6622MS	94.6	98.6	99.4		0
05	C6622MSD	106	109	108		0
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	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

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

0254

Lab Name: ASC Contract: NIPSA

Lab Code: — Case No.: — SAS No.: — SDG No.: CW117

Matrix Spike - EPA Sample No.: CW119 Level: (low/med) Med

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	7680	0	66450	86.6	59-172
Trichloroethene	7680	0	7340	95.6	62-137
Benzene	7680	0	7490	97.6	66-142
Toluene	7680	206	8080	103	59-139
Chlorobenzene	7680	0	7650	99.6	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene 7680	66450	7560	98.4	12.8	22	59-172
Trichloroethene 7680	7340	7480	97.4	1.87	24	62-137
Benzene 7680	7490	7710	100	2.83	21	66-142
Toluene 7680	8080	8080	103	0	21	59-139
Chlorobenzene 7680	7650	7620	99.3	.402	21	60-133

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: _____

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ASC Contract: N4ESA CLC017

Lab Code: ____ Case No.: ____ SAS No.: ____ SDG No.: DU CLC18

Matrix Spike - EPA Sample No.: CLC18 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	116	0	127	110	59-172
Trichloroethene	116		203	175	62-137
Benzene	116		116	100	66-142
Toluene	116		115	99.4	59-139
Chlorobenzene	116		110	95.3	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	116	142	122	10.9	22	59-172
Trichloroethene		207	178	1.73	24	62-137
Benzene		116	100	0	21	66-142
Toluene		119	103	2.70	21	59-139
Chlorobenzene		116	100	4.67	21	60-133

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: 2 out of 10 outside limits

COMMENTS: _____

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ASC Contract: NUSA

Lab Code: ____ Case No.: ____ SAS No.: ____ SDG No.: CLW17

Matrix Spike - EPA Sample No.: CLW21 Level: (low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	120000	0	118000	98.4	59-172
Trichloroethene			138000	115	62-137
Benzene			109000	90.8	66-142
Toluene			109000	90.8	59-139
Chlorobenzene			108000	90.0	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	120000	125000	104	5.15	22	59-172
Trichloroethene		132000	110	4.09	24	62-137
Benzene		125000	104	13.9	21	66-142
Toluene		122000	102	12.0	21	59-139
Chlorobenzene		120000	100	10.5	21	60-133

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 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: C6617

Matrix Spike - EPA Sample No.: C6622MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50.0	5.00	51.2	102	61-145
Trichloroethene	50.0	5.00	49.1	98.2	71-120
Benzene	50.0	~~5.00~~ 1.62	52.4	102	76-127
Toluene	50.0	~~5.00~~ 4.05	52.3	96.5	76-125
Chlorobenzene	50.0	5.00	49.8	99.6	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50.0	52.9	106	3.27	14	61-145
Trichloroethene	50.0	51.2	102	4.19	14	71-120
Benzene	50.0	54.2	105	3.48	11	76-127
Toluene	50.0	50.0	104	7.39	13	76-125
Chlorobenzene	50.0	51.7	103	2.32	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: _____

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK01

Lab Name: ASC Contract: LAPSA

Lab Code: — Case No.: — SAS No.: — SDG No.: CC617

Lab File ID: B4163 Lab Sample ID: LA2V3677V

Date Analyzed: 06/28/94 Time Analyzed: 1428

GC Column: DB624 ID: .53 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSD-B

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED	
01	VSPIC1	LA2V3677VS	B4164	~~1428~~	1523
02	CC6179MS	JM9436VS	B4166	~~1523~~	1611
03	CC6179MSD	JM9436VT	B4167	~~1611~~	1645
04	CC6179	JM9436	B4165	~~1645~~	1537
05	CC617	JM9434	B4168	~~1537~~	1720
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COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK02

Lab Name: ASC Contract: N4154

Lab Code: — Case No.: — SAS No.: — SDG No.: CC6017

Lab File ID: C8148 Lab Sample ID: N2V3670V

Date Analyzed: 062794 Time Analyzed: 1102

GC Column: DB-624 ID: .53 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSD-C

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VSPK03	N2V3670VS	C8178 ~~C8180~~	~~1343~~ 1202
02	CC6018MS	JM9435VS	C8179 ~~C8153~~	~~1810~~ 1301
03	CC6018MSD	JM9435VR	C8180	1343
04	CC6018	JM9435	C8153	1810
05	CC6020	JM9437	C8181	1425
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Del 7/19/94

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK02 ~~Clt Dup~~

Lab Name: ASC Contract: NEESA

Lab Code: — Case No.: — SAS No.: — SDG No.: C6617

Lab File ID: B4149 Lab Sample ID: N4V3674V

Date Analyzed: 062794 Time Analyzed: 1618

GC Column: DB624 ID: .75 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSD-B

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VSBK02	~~B415~~ N4V3674S	~~B415~~ C	1652
02	C6621MS	JMA438XS	B4152	1821
03	C6621MSD	JMA438XS	B4153	1830
04	C6621	JMA438	B4151	1707
05				
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COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VOABLK01

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: C6617

Lab File ID: B4144 Lab Sample ID: NV3671V

Date Analyzed: 06/27/94 Time Analyzed: 1326

GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: MSB.c

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VOASPK01	NV3671V3	B4145	1401
02	C6622	JM7437V	B4158	1137
03	C6622MS	JM7437VS	B4159	1211
04	C6622MSD	JM7437VR	B4160	1246
05				
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COMMENTS:

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ASC Contract: NEESR

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: C6617

Lab File ID: B4087 BFB Injection Date: 6/14/94

Instrument ID: MSD-B BFB Injection Time: 1236

GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	19.2
75	30.0 - 66.0% of mass 95	55.8
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	0.00 (0.0)1
174	50.0 - 120.0% of mass 95	~~24.1~~ 74.1
175	4.0 - 9.0 % of mass 174	6.5 (8.8)1
176	93.0 - 101.0% of mass 174	73.8 (99.6)1
177	5.0 - 9.0% of mass 176	5.2 (7.0)2

1-Value is % mass 174 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	Calib. Std. #1	Std. 10.0 ppb	B4086	6/14/94	1654
02	Calib. Std. #2	Std. 20.0 ppb	B4087	6/14/94	1731
03	Calib. Std. #3	Std. 50.0 ppb	B4088	6/14/94	1807
04	Calib. Std. #4	Std. 100 ppb	B4090	6/14/94	1844
05	Calib. Std. #5	Std. 200 ppb	B4091	6/14/94	1922
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5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: C6617

Lab File ID: >C8129 BFB Injection Date: 6/24/94

Instrument ID: ms0-C BFB Injection Time: 1053

GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	24.85
75	30.0 - 66.0% of mass 95	53.52
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.80
173	Less than 2.0% of mass 174	0.00 (0.00)1
174	50.0 - 120.0% of mass 95	79.39
175	4.0 - 9.0 % of mass 174	6.31 (7.95)1
176	93.0 - 101.0% of mass 174	77.84 (98.05)1
177	5.0 - 9.0% of mass 176	5.66 (7.27)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	Calibr. Std. #1	10.0 ppb Std	>C8131	6/24/94	1224
02	Calibr. Std. #2	20.0 ppb Std	>C8132		1306
03	Calibr. Std. #3	50.0 ppb Std	>C8133		1348
04	Calibr. Std. #4	100 ppb Std	>C8134		1430
05	Calibr. Std. #5	200 ppb Std	>C8135		1512
06	VOABLK01	NV3668V	>C8136		1630
07	VOASDK01	NV3668VS	>C8137		1721
08	N-001	JM9447V	>C8138		1803
09	N-001MS	JM9447VS	>C8139		1845
10	N-001MSD	JM9447VR	>C8140		1927
11	E-002	JM9448V	>C8141		2009
12	W-004	JM9450V	>C8142		2057
13	B-005	JM9451V	>C8143		2132
14	S-003	JM9449V	>C8144		2214
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5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: C6617

Lab File ID: B4142 BFB Injection Date: 06/27/94

Instrument ID: MSB.C BFB Injection Time: 1022

GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) NO

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	20.6
75	30.0 - 66.0% of mass 95	56.9
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.6
173	Less than 2.0% of mass 174	(0.7)1
174	50.0 - 120.0% of mass 95	70.4
175	4.0 - 9.0 % of mass 174	(7.7)1
176	93.0 - 101.0% of mass 174	(96.3)1
177	5.0 - 9.0% of mass 176	(7.3)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	~~VOA~~ CHK.STD.	CHK.STD	B4143	06/27/94	1054
02	VOABLKA	NV3671V	B4144	06/27/94	1326
03	VOASPKA	NV3671VS	B4145	06/27/94	1401
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5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ASC Contract: NESA

Lab Code: — Case No.: — SAS No.: — SDG No.: CLL17

Lab File ID: B4142 BFB Injection Date: 062794

Instrument ID: MSD-B BFB Injection Time: 1032

GC Column: DB624 ID: .75 (mm) Heated Purge: (Y/N) Y N
Inj. 8/3/94

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	19.8
75	30.0 - 66.0% of mass 95	56.2
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	8.1
173	Less than 2.0% of mass 174	0.4 ( )1
174	50.0 - 120.0% of mass 95	64.4
175	4.0 - 9.0 % of mass 174	8.5 ( )1
176	93.0 - 101.0% of mass 174	100 ( )1
177	5.0 - 9.0% of mass 176	7.7 ( )2

1-Value is % mass 174 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VBLKC2	N4V3174V	B4149	062794	1618
02	VBPKC2	N4V3174VS	B4150		1652
03	CLL21MS	JM9438VS	B4153		1801
04	CLL21MSD	JM9438VR	B4153		1836
05	CLL21	JM9438	B4151		1927
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5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ASC Contract: NCESA

Lab Code: ____ Case No.: ____ SAS No.: ____ SDG No.: C06617

Lab File ID: D2114 C8147 C8146 BFB Injection Date: 062794

Instrument ID: MSD-C BFB Injection Time: 0842

GC Column: DB624 ID: .53 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.16
75	30.0 - 66.0% of mass 95	48.15
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	8.20
173	Less than 2.0% of mass 174	0.00 ( )1
174	50.0 - 120.0% of mass 95	88.24
175	4.0 - 9.0 % of mass 174	7.05 ( )1
176	93.0 - 101.0% of mass 174	96.53 ( )1
177	5.0 - 9.0% of mass 176	6.64 ( )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	VBLK02	N2V3670V	C8148	062794	1102
02	C06618	JM9435	C8153	〃	1810
03					
04					
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5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: RSC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: C6617

Lab File ID: B4156 BFB Injection Date: 06/28/94

Instrument ID: MSB.C BFB Injection Time: 0955

GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	20.1
75	30.0 - 66.0% of mass 95	48.9
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.6
173	Less than 2.0% of mass 174	(1.4) 1
174	50.0 - 120.0% of mass 95	69.7
175	4.0 - 9.0 % of mass 174	(8.5) 1
176	93.0 - 101.0% of mass 174	(96.7) 1
177	5.0 - 9.0% of mass 176	(7.1) 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	CHK STD	CHK STD	B4157	06/28/94	1030
02	C6622	JM9439V	B4158	06/28/94	1137
03	C6622 MS	JM9439VS	B4159	06/28/94	1542
04	C6622 MSD	JM9439VR	B4160	06/28/94	1547
05	VBLK01	N2V3677V	B4163		1428
06	VSPK01	N2V3677VS	B4164		1503
07	C6619MS	JM3436VS	B4166		1611
08	C6619MSD	JM3436VR	B4167		1645
09	C6619	JM3436	B4165		1537
10	C6617	JM3434	B4163		1720
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5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ASC Contract: NUESA

Lab Code: — Case No.: — SAS No.: — SDG No.: CWU17

Lab File ID: C8176 BFB Injection Date: 062894

Instrument ID: MSD-C BFB Injection Time: 1056

GC Column: DB624 ID: .53 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.77
75	30.0 - 66.0% of mass 95	46.56
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	8.47
173	Less than 2.0% of mass 174	0.00 ( )1
174	50.0 - 120.0% of mass 95	85.95
175	4.0 - 9.0 % of mass 174	7.30 ( )1
176	93.0 - 101.0% of mass 174	98.11 ( )1
177	5.0 - 9.0% of mass 176	7.53 ( )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	VSPK02	N2V3670415	C8178	062894	1212
02	CWU18MS	JM5435V5	C8179		1301
03	CWU18MSD	JM5435VR	C8180		1343
04	C6620	JM5437	C8181		1425
05					
06					
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6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: C6617

Instrument ID: MSD-B Calibration Date(s): 6-14-94 6-14-94

Heated Purge: (Y/N) N Calibration Times: 1054 1920

GC Column: DB624 ID: 0.53 (mm)

LAB FILE ID: RRF10 = B4087 RRF20 = B4088

RRF50 = B4089 RRF100= B4090 RRF200= B4091

COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Chloromethane	0.3928	0.5809	—	0.6447	0.5593	0.5938	19.97
Bromomethane	*1.1340	1.1123	—	0.9909	0.9063	1.0359	10.52 *
Vinyl Chloride	*1.1417	1.0845	—	1.1116	1.0036	1.1104	2.14 *
Chloroethane	0.7556	0.6732	—	0.5226	0.4715	0.6107	22.16
Methylene Chloride	1.8712	1.5927	1.4610	1.4588	1.3401	1.5448	13.15
Acetone	—	0.4522	0.2669	0.2345	0.18921	0.2857	46.43
Carbon Disulfide	5.7341	4.0233	3.7720	3.7253	3.2889	4.1087	23.03
1,1-Dichloroethene	*1.8174	1.4668	1.4141	1.3571	1.2079	1.4526	15.54 *
1,1-Dichloroethane	*3.2176	2.6782	2.4941	2.5101	2.3250	2.6450	12.99 *
1,2-Dichloroethene (~~total~~) Trans SV	1.9054	1.6422	1.5285	1.5217	1.3844	1.5964	12.24
Chloroform	*3.5363	3.0513	2.8073	2.7084	2.5450	2.9298	13.16 *
1,2-Dichloroethane	*2.3780	2.0796	1.8925	1.8432	1.7519	1.9890	12.48 *
2-Butanone	0.04109	0.03159	0.03265	0.03013	0.02900	0.03289	14.56
1,1,1-Trichloroethane	*0.7386	0.6552	0.5985	0.5845	0.5016	0.6277	11.31 *
Carbon Tetrachloride	*0.7210	0.6148	0.5556	0.5378	0.5046	0.5868	14.49 *
Bromodichloromethane	*0.82929	0.75863	0.68132	0.6827	0.6453	0.7195	10.28 *
1,2-Dichloropropane	0.4778	0.4236	0.3776	0.3746	0.3579	0.4027	12.03
cis-1,3-Dichloropropene	*0.68379	0.5792	0.5501	0.5533	0.5307	0.5835	10.55 *
Trichloroethene	*0.5363	0.4693	0.4349	0.4301	0.4169	0.4562	10.85 *
Dibromochloromethane	*0.6330	0.5824	0.5906	0.5395	0.5328	0.5636	7.85 *
1,1,2-Trichloroethane	*0.4418	0.3979	0.3676	0.3589	0.3477	0.3828	9.90 *
Benzene	*1.1252	0.9720	0.8654	0.7382	0.7227	0.9131	15.11 *
trans-1,3-Dichloropropene	*0.6625	0.5677	0.5106	0.5132	0.4969	0.5370	8.65 *
Bromoform	*0.5380	0.4961	0.4782	0.4740	0.4580	0.4874	5.87 *
4-Methyl-2-Pentanone	0.44634	0.4097	0.3847	0.3705	0.3710	0.3795	8.10
2-Hexanone	0.2872	0.2317	0.2607	0.2510	0.2420	0.2545	8.31
Tetrachloroethene	*0.6714	0.5769	0.5290	0.5063	0.4930	0.5553	13.03 *
1,1,2,2-Tetrachloroethane	*0.87134	0.74784	0.70723	0.6698	0.6299	0.7252	12.78 *
Toluene	*0.9571	0.8391	0.7513	0.7075	0.7299	0.8090	11.42 *
Chlorobenzene	*1.2655	1.1220	1.0227	1.0171	0.9735	1.0802	10.83 *
Ethylbenzene	*0.6108	0.5346	0.4648	0.4700	0.4596	0.5180	11.94 *
Styrene	*1.1402	1.0042	0.9387	0.9312	0.8570	0.9743	10.93 *
Xylene (total)	*0.7011	0.6544	0.5767	0.5820	0.5422	0.6113	10.58 *
Toluene-d8	1.4457	1.4417	1.2660	1.2437	1.2020	1.3198	8.74
Bromofluorobenzene	*0.95198	0.91263	0.83301	0.80165	0.78571	0.8513	9.39 *
1,2-Dichloroethane-d4	1.7738	1.6948	1.5144	1.4981	1.3911	1.5744	9.90

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

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: C6617

Instrument ID: MSD-C Calibration Date(s): 062494

Heated Purge: (Y/N) Y Calibration Times: 1224 1572

GC Column: DB624 ID: 0.53 (mm)

LAB FILE ID: RRF10 = >C8131 RRF20 = >C8132
RRF50 = >C8133 RRF100= >C8134 RRF200= >C8135

COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	%RSD	
Chloromethane	0.75036	0.73550	0.75246	0.75072	0.71748	0.74131	2.02	
Bromomethane	1.6662	1.6014	1.6538	1.6834	1.6166	1.6443	2.09	*
Vinyl Chloride	1.2829	1.2771	1.3339	1.3886	1.3677	1.3300	3.74	*
Chloroethane	0.72705	0.82137	0.76730	0.87981	0.85236	0.82758	7.28	
Methylene Chloride	1.8708	1.6606	1.5762	1.5743	1.5244	1.6412	8.37	*
Acetone	0.59733	0.67802	0.56735	0.52658	0.47354	0.56456	16.10	
Carbon Disulfide	3.4018	3.3287	3.5333	3.7612	3.7452	3.5540	5.52	
1,1-Dichloroethene	1.6937	1.6199	1.5500	1.6075	1.5851	1.6112	3.36	*
1,1-Dichloroethane	2.8963	2.7266	2.5775	2.6469	2.5584	2.6811	5.12	*
1,2-Dichloroethene (total) Trans	1.6220	1.6226	1.5723	1.6036	1.5502	1.6061	3.16	
Chloroform	3.3942	3.0811	2.9362	2.9229	2.8663	3.0401	7.01	*
1,2-Dichloroethane	2.4849	2.2247	2.0904	2.1088	2.0478	2.1913	8.06	*
2-Butanone	0.03973	0.04827	0.04736	0.05021	0.03851	0.04482	11.67	
1,1,1-Trichloroethane	0.57124	0.51444	0.50173	0.50853	0.50192	0.51797	5.85	*
Carbon Tetrachloride	0.50871	0.48254	0.47936	0.48209	0.48705	0.48795	2.44	*
Bromodichloromethane	0.56769	0.55989	0.58003	0.59182	0.59785	0.57945	2.75	*
1,2-Dichloropropane	0.37903	0.37716	0.36332	0.36376	0.36150	0.37295	4.25	
cis-1,3-Dichloropropene	0.44882	0.43735	0.46047	0.47478	0.48105	0.46049	3.91	*
Trichloroethene	0.46068	0.42980	0.42724	0.41676	0.41724	0.43034	4.17	*
Dibromochloromethane	0.47993	0.48020	0.51778	0.55542	0.55033	0.51833	7.412	*
1,1,2-Trichloroethane	0.37899	0.34518	0.33589	0.34458	0.32880	0.34669	5.361	*
Benzene	1.0342	0.96622	0.91976	0.93358	0.91535	0.95380	5.15	*
trans-1,3-Dichloropropene	0.36864	0.36515	0.38662	0.41129	0.42138	0.39462	6.43	*
Bromoform	0.33911	0.35214	0.40238	0.46625	0.44263	0.39650	12.55	*
4-Methyl-2-Pentanone	0.21027	0.20896	0.20774	0.20562	0.17811	0.20094	6.56	
2-Hexanone	0.56837	0.57729	0.55868	0.56152	0.48332	0.54784	6.89	
Tetrachloroethene	0.55951	0.52000	0.49644	0.49956	0.47791	0.51068	6.09	*
1,1,2,2-Tetrachloroethane	0.96562	0.89582	0.85742	0.87705	0.82784	0.88475	5.85	*
Toluene	0.92134	0.84257	0.80523	0.81962	0.81145	0.84003	5.67	*
Chlorobenzene	1.1618	1.0653	1.0141	1.0337	1.0085	1.0567	5.94	*
Ethylbenzene	0.56150	0.51137	0.48866	0.50393	0.49495	0.51368	6.30	*
Styrene	1.0872	1.0031	0.97181	1.0197	1.0390	1.0231	4.16	*
Xylene (total)	0.70154	0.66041	0.63406	0.62781	0.63713	0.65359	5.00	*
Toluene-d8	1.2665	1.1684	1.1492	1.1860	1.1607	1.1762	2.23	
Bromofluorobenzene	0.77768	0.70974	0.69072	0.70334	0.69456	0.71521	4.94	*
1,2-Dichloroethane-d4	1.7172	1.7144	1.6850	1.6902	1.6603	1.7028	4.59	

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

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NELSA Client

Lab Code: ___ Case No.: ___ SAS No.: ___ SDG No.: ~~Client~~ E13194

Instrument ID: NSD-B Calibration Date: 072794 Time: 1858

Lab File ID: B4143 Init. Calib. Date(s): 061494 061494

Heated Purge: (Y/N) Y Init. Calib. Times: 1654 1920

GC Column: DB-624 ID: .75 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D	
Chloromethane	0.544	0.550		1.2		
Bromomethane	1.036	0.906	0.100	12.5	25.0	
Vinyl Chloride	1.110	1.059	0.100	4.6	25.0	
Chloroethane	0.611	0.605		0.9		
Methylene Chloride	1.545	1.386		10.3		
Acetone	0.284	0.336		7.6		
Carbon Disulfide	4.109	3.964		3.5		
1,1-Dichloroethene	1.453	1.282	0.100	11.8	25.0	
1,1-Dichloroethane	2.645	2.578	0.200	2.5	25.0	
1,2-Dichloroethene (total)	1.596	1.486		6.9		
Chloroform	2.930	3.006	0.200	2.6	25.0	
1,2-Dichloroethane	1.989	2.174	0.100	9.3	25.0	
2-Butanone	0.033	0.030		9.4		
1,1,1-Trichloroethane	0.628	0.626	0.100	0.3	25.0	
Carbon Tetrachloride	0.587	0.596	0.100	1.6	25.0	
Bromodichloromethane	0.719	0.662	0.200	8.0	25.0	
1,2-Dichloropropane	0.403	0.364		9.7		
cis-1,3-Dichloropropene	0.583	0.553	0.200	5.5	25.0	
Trichloroethene	0.452	0.424	0.300	7.0	25.0	
Dibromochloromethane	0.564	0.521	0.100	7.6	25.0	
1,1,2-Trichloroethane	0.383	0.334	0.100	12.8	25.0	
Benzene 0.913 / 0.787	~~0.488~~	~~0.484~~	0.500	~~13.1~~	25.0	13.8 DL E13194
trans-1,3-Dichloropropene	0.537	0.570	0.100	5.0	25.0	
Bromoform	0.488	0.424	0.100	13.1	25.0	
4-Methyl-2-Pentanone	0.394	0.405		2.8		
2-Hexanone	0.255	0.277		9.0		
Tetrachloroethene	0.555	0.575	0.200	7.3	25.0	
1,1,2,2-Tetrachloroethane	0.725	0.693	0.500	4.4	25.0	
Toluene	0.809	0.782	0.400	3.3	25.0	
Chlorobenzene	1.086	1.014	0.500	6.1	25.0	
Ethylbenzene	0.514	0.464	0.100	9.6	25.0	
Styrene	0.974	0.916	0.300	6.0	25.0	
Xylene (~~total~~) MTP	0.611	0.555	0.300	9.2	25.0	
Toluene-d8	1.320	1.225		7.2		
Bromofluorobenzene	0.851	0.829	0.200	2.6	25.0	
1,2-Dichloroethane-d4	1.574	1.619		2.8		

All other compounds must meet a minimum RRF of 0.010.

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: C6617

Instrument ID: HSCB.C Calibration Date: ~~06/14/94~~ 06/23/94 Time: 1030

Lab File ID: B4157 Init. Calib. Date(s): 06/14/94 06/14/94

Heated Purge: (Y/N) N Init. Calib. Times: 1654 1920

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	0.544	0.481		11.6	
Bromomethane	1.036	0.772	0.100	6.2	25.0
Vinyl Chloride	1.110	1.027	0.100	7.5	25.0
Chloroethane	0611	0.601		1.6	
Methylene Chloride	1.545	1.381		10.6	
Acetone	0.286	0.338		15.5	
Carbon Disulfide	4.109	3.891		5.3	
1,1-Dichloroethene	1.453	1.318	0.100	9.3	25.0
1,1-Dichloroethane	2.645	2.537	0.200	4.1	25.0
1,2-Dichloroethene (~~total~~ trans)	1.596	1.501		6.0	
Chloroform	2.930	2.899	0.200	1.0	25.0
1,2-Dichloroethane	1.989	2.087	0.100	4.9	25.0
2-Butanone	0.033	0.030		9.9	
1,1,1-Trichloroethane	0.628	0.628	0.100	0.0	25.0
Carbon Tetrachloride	0.587	0.613	0.100	4.4	25.0
Bromodichloromethane	0.719	0.642	0.200	10.7	25.0
1,2-Dichloropropane	0.403	0.355		11.9	
cis-1,3-Dichloropropene	0.583	0.539	0.200	7.7	25.0
Trichloroethene	0.456	0.440	0.300	3.6	25.0
Dibromochloromethane	0.564	0.588	0.100	6.2	25.0
1,1,2-Trichloroethane	0.383	0.337	0.100	12.0	25.0
Benzene	0.913	0.780	0.500	14.5	25.0
trans-1,3-Dichloropropene	0.537	0.500	0.100	6.9	25.0
Bromoform	0.488	0.421	0.100	13.8	25.0
4-Methyl-2-Pentanone	0.396	0.400		0.8	
2-Hexanone	0 255	0.276		8.3	
Tetrachloroethene	0.555	0.541	0.200	2.6	25.0
1,1,2,2-Tetrachloroethane	0.725	0.664	0.500	8.4	25.0
Toluene	0.809	0.765	0.400	5.4	25.0
Chlorobenzene	1.080	1.016	0.500	6.0	25.0
Ethylbenzene	0.514	0.462	0.100	10.1	25.0
Styrene	0.974	0.883	0.300	9.3	25.0
Xylene (total)	0.611	0.559	0.300	8.6	25.0
Toluene-d8	1.320	1.170	~~11.8~~ 11.5	11.3	
Bromofluorobenzene	0.851	0.786	0.200	7.7	25.0
1,2-Dichloroethane-d4	1.574	1.515		3.8	

All other compounds must meet a minimum RRF of 0.010.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: RSC Contract: NEESA

Lab Code: ____ Case No.: ____ SAS No.: ____ SDG No.: CLL17

Instrument ID: MSD-C Calibration Date: 062794 Time: 0908

Lab File ID: C8147 Init. Calib. Date(s): 062494 ____

Heated Purge: (Y/N) Y Init. Calib. Times: 1224 1572

GC Column: DB624 ID: .53 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	.74131	.69149		6.72	
Bromomethane	1.64426	1.26474	0.100	23.08	25.0
Vinyl Chloride	1.33005	.98594	0.100	25.57	25.0
Chloroethane	.62858	.64961		21.60	
Methylene Chloride	1.64126	1.30362		20.57	
Acetone	.56134	.43676		22.20	
Carbon Disulfide	3.55404	2.85524		19.66	
1,1-Dichloroethene	1.61124	1.31244	0.100	18.17	25.0
1,1-Dichloroethane	2.68114	2.25280	0.200	15.96	25.0
1,2-Dichloroethene (~~total~~) max	1.60614	1.31834		17.92	
Chloroform	3.04014	2.59841	0.200	14.53	25.0
1,2-Dichloroethane 2.9134	1.77959	1.76910	0.100	19.27	25.0
2-Butanone	.64482	.64084		8.67	
1,1,1-Trichloroethane	.51797	.46619	0.100	10.00	25.0
Carbon Tetrachloride	.46795	.44599	0.100	8.600	25.0
Bromodichloromethane	.57945	.48603	0.200	16.12	25.0
1,2-Dichloropropane	.37295	.32175		13.73	
cis-1,3-Dichloropropene	.46649	.42673	0.200	7.33	25.0
Trichloroethene	.43034	.39087	0.300	9.17	25.0
Dibromochloromethane	.51833	.47810	0.100	7.65	25.0
1,1,2-Trichloroethane	.34667	.30429	0.100	12.23	25.0
Benzene	.95380	.81709	0.500	14.33	25.0
trans-1,3-Dichloropropene	.39062	.36863	0.100	5.63	25.0
Bromoform	.39650	.37359	0.100	5.80	25.0
4-Methyl-2-Pentanone	.20654	.17455		13.13	
2-Hexanone	.54984	.48822		11.21	
Tetrachloroethene	.51068	.46409	0.200	8.15	25.0
1,1,2,2-Tetrachloroethane .8847	~~.41777~~	.45053	0.500	~~7.17~~ 11.99	25.0
Toluene	.8403	.74817	0.400	10.93	25.0
Chlorobenzene	1.05667	.97074	0.500	8.13	25.0
Ethylbenzene	.57368	.46185	0.100	10.09	25.0
Styrene	1.02309	.92031	0.300	10.05	25.0
Xylene (~~total~~) m+p	.65339	.59570	0.300	8.83	25.0
Toluene-d8	1.17647	.99626	____	15.30	____
Bromofluorobenzene	.71521	.60878	0.200	14.88	25.0
1,2-Dichloroethane-d4	1.70281	1.31644	____	22.69	____

All other compounds must meet a minimum RRF of 0.010.

DLL 7/19/94

7A

VOLATILE CONTINUING CALIBRATION CHECK

0274

Lab Name: ASC Contract: NEESA

Lab Code: — Case No.: — SAS No.: — SDG No.: CW017

Instrument ID: MSD-2 Calibration Date: 062894 Time: 1030

Lab File ID: B4157 Init. Calib. Date(s): 061494 —

Heated Purge: (Y/N) Y Init. Calib. Times: 1654 1220

GC Column: DB624 ID: .53 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	0.544	0.481		11.6	
Bromomethane	1.036	0.972	0.100	6.2	25.0
Vinyl Chloride	1.116	1.027	0.100	7.5	25.0
Chloroethane	0.611	0.601		1.6	
Methylene Chloride	1.545	1.381		10.6	
Acetone	0.266	0.336		15.5	
Carbon Disulfide	4.169	3.691		5.3	
1,1-Dichloroethene	1.453	1.318	0.100	9.3	25.0
1,1-Dichloroethane	2.645	2.537	0.200	4.1	25.0
1,2-Dichloroethene (total) trans	1.596	1.501		6.0	
Chloroform	2.930	2.899	0.200	1.0	25.0
1,2-Dichloroethane	1.989	2.087	0.100	4.9	25.0
2-Butanone	0.033	0.030		9.9	
1,1,1-Trichloroethane	0.628	0.628	0.100	0	25.0
Carbon Tetrachloride	0.587	0.613	0.100	4.4	25.0
Bromodichloromethane	0.719	0.642	0.200	10.7	25.0
1,2-Dichloropropane	0.403	0.355		11.9	
cis-1,3-Dichloropropene	0.583	0.539	0.200	7.7	25.0
Trichloroethene	0.456	0.440	0.300	3.6	25.0
Dibromochloromethane	0.564	0.528	0.100	6.2	25.0
1,1,2-Trichloroethane	0.383	0.337	0.100	12.0	25.0
Benzene	0.913	0.780	0.500	14.5	25.0
trans-1,3-Dichloropropene	0.537	0.566	0.100	6.9	25.0
Bromoform	0.488	0.421	0.100	13.8	25.0
4-Methyl-2-Pentanone	0.396	0.400		0.8	
2-Hexanone	0.255	0.276		8.3	
Tetrachloroethene	0.555	0.541	0.200	2.6	25.0
1,1,2,2-Tetrachloroethane	0.725	0.664	0.500	8.4	25.0
Toluene	0.809	0.765	0.400	5.4	25.0
Chlorobenzene	1.022	1.016	0.500	6.0	25.0
Ethylbenzene	0.574	0.462	0.100	10.1	25.0
Styrene	0.774	0.883	0.300	9.3	25.0
Xylene (total)	0.611	0.559	0.300	8.6	25.0
Toluene-d8	1.320	1.170	0.200	11.3	
Bromofluorobenzene	0.851	0.786	0.200	7.7	25.0
1,2-Dichloroethane-d4	1.574	1.515		3.8	

All other compounds must meet a minimum RRF of 0.010.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NUESA

Lab Code: —— Case No.: —— SAS No.: —— SDG No.: CWU17

Instrument ID: MSD-C Calibration Date: 062894 Time: 1122

Lab File ID: C8177 Init. Calib. Date(s): 062494 ________

Heated Purge: (Y/N) Y Init. Calib. Times: ~~06-15~~ 1224 1572 7/19/94

GC Column: DB624 ID: .53 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	.74131	.72170		2.64	
Bromomethane	1.64426	1.33891	0.100	18.57	25.0
Vinyl Chloride	1.33005	1.05344	0.100	20.82	25.0
Chloroethane	.82858	.68597		17.21	
Methylene Chloride	1.64136	1.38061		15.88	
Acetone	.56134	.52589		6.32	
Carbon Disulfide	3.55404	2.88235		18.90	
1,1-Dichloroethene	1.61124	1.34589	0.100	16.47	25.0
1,1-Dichloroethane	2.68114	2.37259	0.200	11.57	25.0
1,2-Dichloroethene ~~(total)~~ t12D	1.60644	1.37120		14.63	
Chloroform	3.04014	2.71769	0.200	10.61	25.0
1,2-Dichloroethane	2.19134	1.89284	0.100	13.62	25.0
2-Butanone	.04482	.04206		6.14	
1,1,1-Trichloroethane	.57797	.48454	0.100	6.45	25.0
Carbon Tetrachloride	.48795	.45072	0.100	7.63	25.0
Bromodichloromethane .57945	~~.57833~~	~~.47635~~ .49835	0.200	~~8.10~~ 14.00	25.0
1,2-Dichloropropane	.57803	.44783		13.55	
cis-1,3-Dichloropropene	.46049	.44591	0.200	3.17	25.0
Trichloroethene	.43034	.41347	0.300	3.92	25.0
Dibromochloromethane	.57833	.47635	0.100	8.10	25.0
1,1,2-Trichloroethane	.34669	.31842	0.100	8.15	25.0
Benzene	.95380	.88274	0.500	7.45	25.0
trans-1,3-Dichloropropene	.39062	.38187	0.100	2.24	25.0
Bromoform	.39650	.38853	0.100	2.01	25.0
4-Methyl-2-Pentanone	.20099	.19694		1.98	
2-Hexanone	.54984	.56004		1.86	
Tetrachloroethene	.57068	.49997	0.200	2.10	25.0
1,1,2,2-Tetrachloroethane	.49177	.47924	0.500	2.55	25.0
Toluene	.84003	.80813	0.400	3.80	25.0
Chlorobenzene	1.05667	1.02128	0.500	3.35	25.0
Ethylbenzene	.57368	.48332	0.100	5.91	25.0
Styrene	1.02309	.99541	0.300	2.71	25.0
Xylene ~~(total)~~ m+p	.65339	.62828	0.300	3.84	25.0
Toluene-d8	1.17617	1.09578		6.89	
Bromofluorobenzene	.71521	.67223	0.200	6.01	25.0
1,2-Dichloroethane-d4	1.70281	1.41355		16.99	

All other compounds must meet a minimum RRF of 0.010.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ASC Contract: NEPSR7

Lab Code: ___ Case No.: ___ SAS No.: ___ SDG No.: CC6617

Lab File ID (Standard): B4157 Date Analyzed: 6/28/94

Instrument ID: MSD-B Time Analyzed: 1630

GC Column: DB624 ID: .53 (mm) Heated Purge: (Y/N) Y

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	219137	7.763	981826	9.613	759233	15.571
	UPPER LIMIT	438274	8.263	1463652	10.113	1518466	16.071
	LOWER LIMIT	109568	7.263	490913	9.113	379617	15.071
	EPA SAMPLE NO.						
01	VBLK01	177182	7.765	818605	9.609	655353	15.574
02	VSTD01	183388	7.756	826779	9.604	658194	15.572
03	CC6617MS	189725	7.740	840059	9.600	627851	15.575
04	CC6617MSD	182001	7.764	831254	9.600	634465	15.575
05	CC6613	174461	7.758	799553	9.607	602259	15.577
06	CC6617	196703	7.758	916135	9.604	723644	15.588
07	CC6622	199148	7.77	907416	9.62	708302	15.58
08	CC6622MS	209444	7.76	930268	9.61	719628	15.51
09	CC6622MSD	195132	7.76	862822	9.61	669094	15.58
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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

0277

Lab Name: ASC Contract: NUESA

Lab Code: — Case No.: — SAS No.: — SDG No.: CC6617

Lab File ID (Standard): C8147 Date Analyzed: 062794

Instrument ID: MSD-C Time Analyzed: 0908

GC Column: DB624 ID: .53 (mm) Heated Purge: (Y/N) Y

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	49921	10.81	218237	12.99	163302	19.59
	UPPER LIMIT	99842	11.31	436474	13.49	326604	20.09
	LOWER LIMIT	24961	10.31	109119	12.49	81651	19.09
	EPA SAMPLE NO.						
01	VBLK02	50533	10.83	235118	12.99	177933	19.58
02	MC6618	45565	10.81	161605	12.98	165705	19.57
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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: ____ Case No.: ____ SAS No.: ____ SDG No.: CLC017

Lab File ID (Standard): B4143 Date Analyzed: 08/10/94

Instrument ID: MSD-B Time Analyzed: 1258

GC Column: DB624 ID: .75 (mm) Heated Purge: (Y/N) Y

	IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
12 HOUR STD	201603	7.770	908081	9.612	695721	15.577
UPPER LIMIT	403206	8.270	1816162	10.112	1391442	16.077
LOWER LIMIT	100802	7.270	454041	9.112	347861	15.077
EPA SAMPLE NO.						
01 VBLK02	189338	7.744	887950	9.589	707302	15.565
02 VSPK02	193919	7.748	887968	9.595	715818	15.571
03 CLC12MS	199044	7.755	906333	9.598	729788	15.572
04 CLC12MSD	198473	7.747	859699	9.598	681867	15.574
05 CLC021	179372	7.745	824041	9.593	656414	15.564
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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

0279

Lab Name: ASC Contract: NEESA

Lab Code: ____ Case No.: ____ SAS No.: ____ SDG No.: CLW17

Lab File ID (Standard): C8177 Date Analyzed: 062894

Instrument ID: MSD-C Time Analyzed: 1122

GC Column: DB624 ID: .53 (mm) Heated Purge: (Y/N) Y

	IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
12 HOUR STD	54873	11.14	241086	13.30	174570	19.90
UPPER LIMIT	109746	11.64	482172	13.80	353020	20.40
LOWER LIMIT	27437	10.64	120543	12.80	88825	19.40
EPA SAMPLE NO.						
01 ~~VBLK02~~	~~50533~~	~~10.83~~	~~235116~~	~~1299~~	~~177933~~	~~1958~~
02 ~~CLW18~~	~~45568~~	~~10.81~~	~~1616 09~~	~~12.98~~	~~109705~~	~~19.57~~
VOID DL 7/19/94 03 VSPK02	44947	11.11	212462	13.30	152218	19.89
04 CLW16MS	44708	11.14	186492	13.30	133673	19.90
05 CLW16MSD	37337	11.15	160602	13.34	110959	19.94
06 CLW16D	39317	11.13	178192	13.32	107449	19.91
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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.

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. C6617

Lab Name: ASC Contract: 11653A

Code: — Case No.: — SAS No.: — SDG No.: CW17

Matrix: (soil/water) Soil Lab Sample ID: JM9434C

Sample wt/vol: 30.6 (g/mL) g Lab File ID: 08757

Level: (low/med) low Date Received: 06-23-94

% Moisture: ~~23.3~~ 12.1 decanted: (Y/N) N Date Extracted: 062794

Concentrated Extract Volume: 10,000 (uL) Date Analyzed: 062894

Injection Volume: 1.0 (uL) Dilution Factor: 1000

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 424000	U
111-44-4	bis(2-Chloroethyl)ether		
95-57-8	2-Chlorophenol		
541-73-1	1,3-Dichlorobenzene		
106-46-7	1,4-Dichlorobenzene		
95-50-1	1,2-Dichlorobenzene		
95-48-7	2-Methylphenol		
108-60-1	2,2'-oxybis(1-Chloropropane)		
106-44-5	4-Methylphenol		
621-64-7	N-Nitroso-di-n-propylamine		
67-72-1	Hexachloroethane		
98-95-3	Nitrobenzene		
78-59-1	Isophorone		
88-75-5	2-Nitrophenol		
105-67-9	2,4-Dimethylphenol		
111-91-1	bis(2-Chloroethoxy)methane		
120-83-2	2,4-Dichlorophenol		
120-82-1	1,2,4-Trichlorobenzene		
91-20-3	Naphthalene	69900	J
106-47-8	4-Chloroaniline	424000	U
87-68-3	Hexachlorobutadiene		
59-50-7	4-Chloro-3-methylphenol		
91-57-6	2-Methylnaphthalene		
77-47-4	Hexachlorocyclopentadiene		
88-06-2	2,4,6-Trichlorophenol		
95-95-4	2,4,5-Trichlorophenol	1030000	U
91-58-7	2-Chloronaphthalene	424000	
88-74-4	2-Nitroaniline	1030000	
131-11-3	Dimethylphthalate	424000	
208-96-8	Acenaphthylene		
606-20-2	2,6-Dinitrotoluene		
99-09-2	3-Nitroaniline	1030000	
83-32-9	Acenaphthene	424000	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 0281

Name: ASC	Contract: NEESA
Code: —	Case No.: —
SAS No.: —	SDG No.:
Matrix: (soil/water) Soil	Lab Sample ID: JM9434C
Sample wt/vol: 30.6 (g/mL) g	Lab File ID: DB757
Level: (low/med) low	Date Received: 062394
% Moisture: 23.5 22.1 decanted: (Y/N) N	Date Extracted: 062794
Concentrated Extract Volume: 10,000 (uL)	Date Analyzed: 062894
Injection Volume: 1.0 (uL)	Dilution Factor: 1000
GPC Cleanup: (Y/N) NO	pH: 7

C6617

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
51-28-5	2,4-Dinitrophenol	1030000	U
100-02-7	4-Nitrophenol	1030000	
132-64-9	Dibenzofuran	424000	
121-14-2	2,4-Dinitrotoluene		
84-66-2	Diethylphthalate		
7005-72-3	4-Chlorophenyl-phenylether		
86-73-7	Fluorene		
100-01-6	4-Nitroaniline	1030000	
534-52-1	4,6-Dinitro-2-methylphenol		
86-30-6	N-Nitrosodiphenylamine (1)	424000	
101-55-3	4-Bromophenyl-phenylether		
118-74-1	Hexachlorobenzene		
87-86-5	Pentachlorophenol	1030000	
85-01-8	Phenanthrene	424000	
120-12-7	Anthracene		
86-74-8	Carbazole		
84-74-2	Di-n-butylphthalate		
206-44-0	Fluoranthene		
129-00-0	Pyrene		
85-68-7	Butylbenzylphthalate		
91-94-1	3,3'-Dichlorobenzidine		
56-55-3	Benzo(a)anthracene		
218-01-9	Chrysene		
117-81-7	bis(2-Ethylhexyl)phthalate	61400	J
117-84-0	Di-n-octylphthalate	424000	U
205-99-2	Benzo(b)fluoranthene		
207-08-9	Benzo(k)fluoranthene		
50-32-8	Benzo(a)pyrene		
193-39-5	Indeno(1,2,3-cd)pyrene		
53-70-3	Dibenz(a,h)anthracene		
191-24-2	Benzo(g,h,i)perylene		

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. C6617

Lab Name: ASC Contract: NEESA

Lab Code: — Case No.: — SAS No.: — SDG No.: ____

Matrix: (soil/water) Soil Lab Sample ID: JM9434C

Sample wt/vol: 30.6 (g/mL) G Lab File ID: D8757

Level: (low/med) low Date Received: 062394

% Moisture: 22.1 decanted: (Y/N) N Date Extracted: 062794

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 062894

Injection Volume: 1.0 (uL) Dilution Factor: 1000

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

Number TICs found: 20 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	111-84-2	Nonane	7.73	554000	J
2.	99-85-4	1,4-Cyclohexadiene, 1-methyl	8.34	569000	
3.		Unknown	8.61	301000	
4.		Unknown	8.73	551000	
5.		Unknown	9.00	437000	
6.	124-18-5	Decane	9.09	1640000	
7.	526-73-8	Benzene, 1,2,3-trimethyl-	9.15	499000	
8.	99-87-6	Benzene 1-methyl-4-(1-meth	9.54	821000	
9.	1678-93-9	Cyclohexane, butyl-	9.63	596000	
10.		Unknown	9.90	1010000	
11.	1120-21-4	Undecane	10.33	1670000	
12.	2958-76-1	Naphthalene decahydro-2-me	10.78	302000	
13.		Unknown	11.25	335000	
14.	112-40-3	Dodecane	11.62	667000	
15.	72-54-8	1,1-Dichloro-2,2-bis(p-chlo	22.49	870000	
16.	1022-22-6	DDMU	22.97	421000	
17.	53-19-0	Mitotane	23.06	3060000	
18.		Unknown	23.17	3270000	
19.	50-29-3	Chlorophenothane	23.38	373000	
20.	789-02-6	o,p'-DDT	23.70	4360000	—
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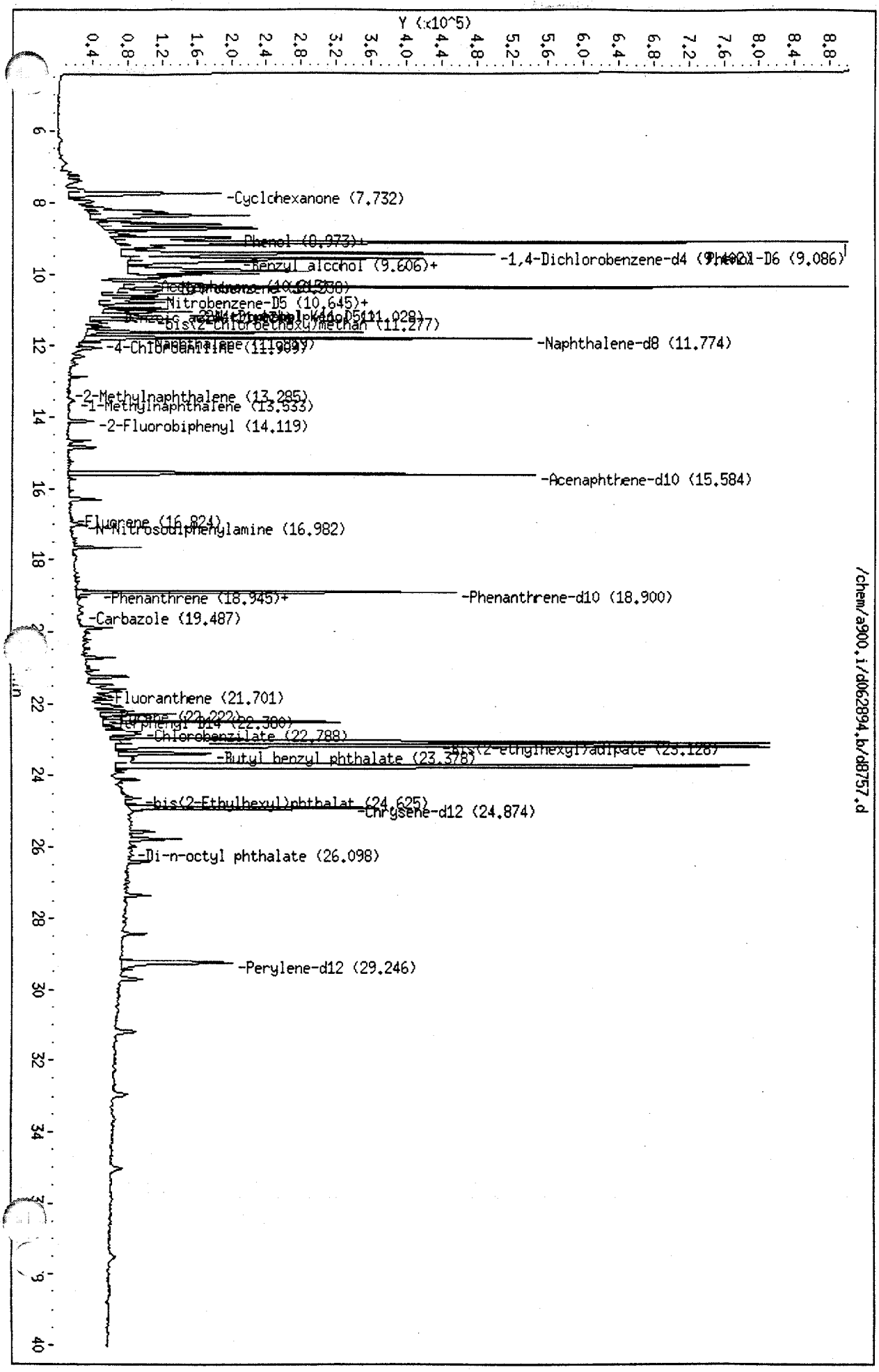


Data File: /chem/a900.i/d062894.b/d8757.d
Date : 28-JUN-94 18:48
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Volume Injected (uL) : 1.0

Column diameter : 0.25

C6617

DL 6-29-94

Data File: /chem/a900.i/d062894.b/d8757.d
Report Date: 29-Jun-1994 08:05

Analytical Services Corp.

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/a900.i/d062894.b/d8757.d
Lab. Id. : Quant Type: ISTD
Inj Date : 28-JUN-94 18:48 Autotune Date: {
Operator : Tom Inst ID: a900.i
Smp Info : 15226N-C6617
Misc Info : JM9434C,N2C40851,S:M1,30.6,10:100, BTL#
Comment :
Method : /chem/a900.i/d062894.b/bna8270d.m
Meth Date : 29-Jun-1994 08:02 darren
Cal Date : 28-JUN-94 14:35 Cal File: d8753.d
Als bottle: 0
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)
	~~1 Cyclohexanone~~	55.00	7.732	(0.822)	36009	10.1	~~10.1(A)~~ Peak
$	10 Phenol-D6	99.00	9.086	(0.966)	25606	5.25	5.25(TaQR)
	~~11 Phenol~~	94.00	8.973	(0.954)	6848	1.09	~~1.09(aQ)~~ RT
	~~12 Aniline~~	66.00	8.973	(0.954)	2351	0.449	~~0.449(aAQ)~~ <1
	~~13 bis(2-Chloroethyl) ether~~	93.00	8.973	(0.954)	43961	3.97	~~3.97(aQ)~~ ION
*	17 1,4-Dichlorobenzene-d4	152.00	9.402	(1.000)	124655 OK	40.0	
	~~19 Benzyl alcohol~~	108.00	9.606	(1.022)	658	0.220	~~0.220(aAQ)~~
	~~21 2-Methylphenol~~	108.00	9.606	(1.022)	658	0.149	~~0.149(TaQ)~~
	~~24 Acetophenone~~	105.00	10.215	(1.086)	3961	0.766	~~0.766(aAQ)~~
$	27 Nitrobenzene-D5	82.00	10.645	(0.904)	1258	0.257	~~0.257(TaQR)~~ OK
	~~28 Nitrobenzene~~	77.00	10.238	(0.870)	5736	1.13	~~1.13(aQ)~~ RT
	~~29 Isophorone~~	82.00	10.645	(0.904)	1727	0.172	~~0.172(a)~~ <1
	~~30 2,4-Dimethylphenol~~	107.00	11.028	(0.937)	2035	0.489	~~0.489(aQ)~~ <1
	~~31 2-Nitrophenol~~	139.00	11.051	(0.939)	1060	0.432	~~0.432(aQ)~~ <1
	~~32 Benzoic acid~~	122.00	11.074	(0.941)	557	0.226	0.226(TaAQ) <1
	~~33 bis(2-Chloroethoxy)methane~~	93.00	11.277	(0.958)	1100	0.170	~~0.170(aQ)~~ <1
*	37 Naphthalene-d8	136.00	11.774	(1.000)	498290 OK	40.0	
	38 Naphthalene	128.00	11.819	(1.004)	21310	2.14	2.14(a)
	~~39 4-Chloroaniline~~	127.00	11.909	(1.012)	341	0.0684	~~0.0684(aQ)~~ <1
	~~45 2-Methylnaphthalene~~	142.00	13.285	(1.128)	1646	0.231	~~0.231(a)~~ <1
	~~46 1-Methylnaphthalene~~	142.00	13.533	(1.439)	860	0.123	~~0.123(aA)~~ <1
$	51 2-Fluorobiphenyl	172.00	14.119	(0.906)	749	0.117	0.117(aQR)
*	58 Acenaphthene-d10	164.00	15.584	(1.000)	292949 OK	40.0	
	~~69 Fluorene~~	166.00	16.824	(1.080)	749	0.0964	~~0.0964(a)~~ <1
	72 N-Nitrosodiphenylamine	169.00	16.982	(0.899)	10399	1.94	1.94(a)
	81 Phenanthrene-d10	188.00	18.900	(1.000)	434720 OK	40.0	
	~~82 Phenanthrene~~	178.00	18.945	(1.002)	4327	0.439	~~0.439(a)~~ <1
	~~83 Anthracene~~	178.00	18.945	(1.002)	4327	0.421	~~0.421(a)~~
	~~84 Carbazole~~	167.00	19.487	(1.031)	1089	0.106	~~0.106(aQ)~~

Data File: /chem/a900.i/d062894.b/d8757.d
Report Date: 29-Jun-1994 08:05

Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
~~87 Fluoranthene~~	202.00	21.701	(1.148)	997	0.0966	~~0.0966(aQ)~~ < (
~~89 Pyrene~~	202.00	22.222	(0.893)	1375	0.129	~~0.129(aQ)~~ < \
$ 90 Terphenyl-D14	244.00	22.380	(0.900)	1531	0.202	~~0.202(aQR)~~ < \
~~91 Chlorobenzilate~~	251.00	22.788	(0.916)	966	0.280	0.~~280(aAQ)~~ < \
~~92 Bis(2-ethylhexyl)adipate~~	129.00	23.128	(0.930)	1305	0.204	~~0.204(aAQ)~~ < \
~~93 Butyl benzyl phthalate~~	149.00	23.378	(0.940)	932	0.135	~~0.135(aQ)~~ < \
95 bis(2-Ethylhexyl)phthalate	149.00	24.625	(0.990)	14931	1.88	1.88(a)
* 99 Chrysene-d12	240.00	24.874	(1.000)	334940 OK	40.0	
~~101 Di-n-octyl phthalate~~	149.00	26.098	(0.892)	1694	0.152	~~0.152(a)~~ < \
* 105 Perylene-d12	264.00	29.246	(1.000)	211729 OK	40.0	

QC Flag Legend

T - Target compound detected outside RT window.
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.
* - Spike/Surrogate failed recovery limits.

Data File: /chem/a900.i/d062894.b/d8757.d

Date : 28-JUN-94 18:48

Instrument : a900.i

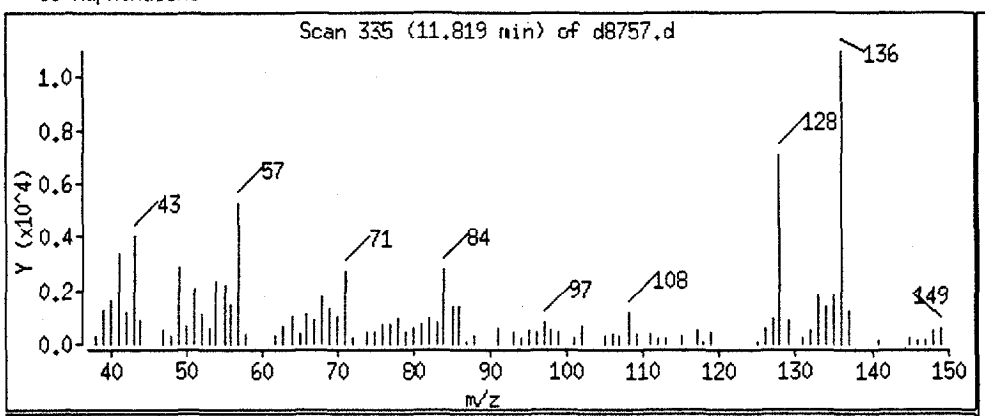
Sample ID :

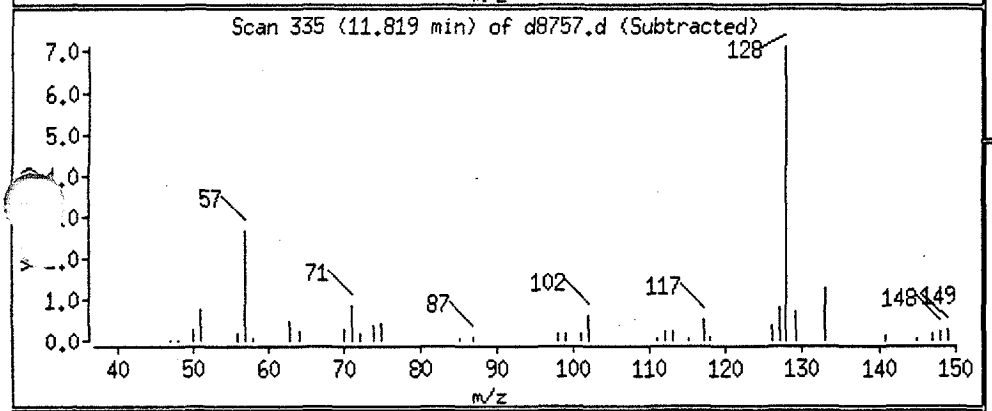
Column phase : J&W DB-5

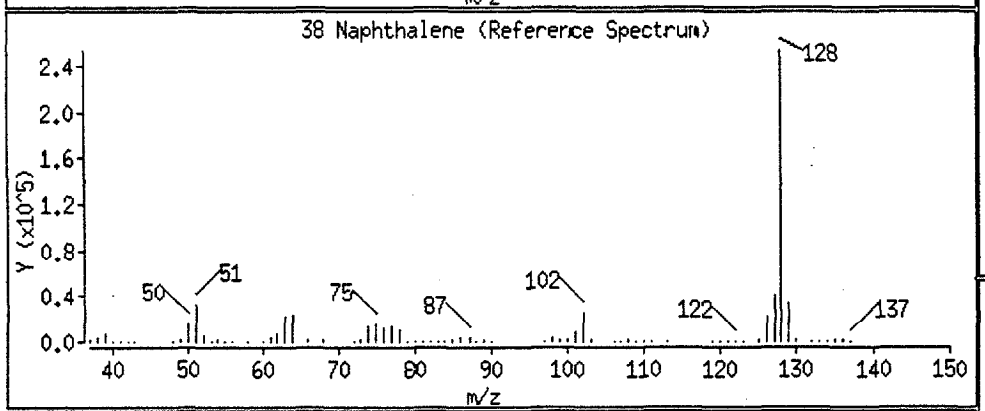
Column diameter : 0.25

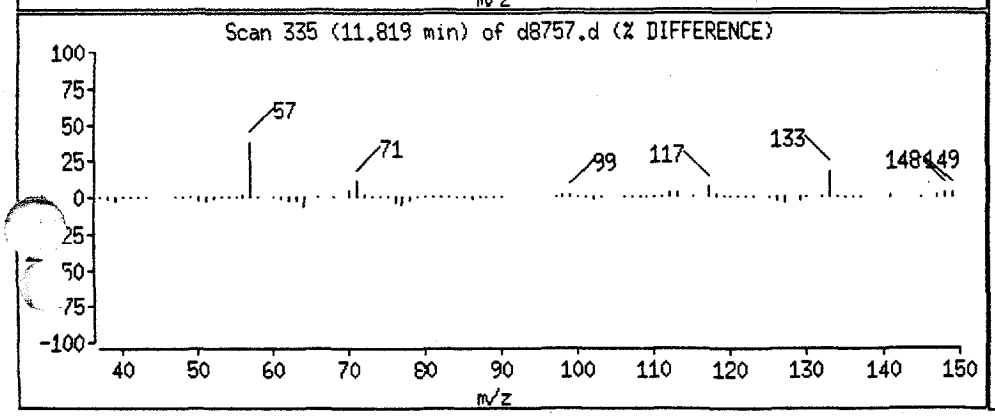
Volume Injected (uL) : 1.0

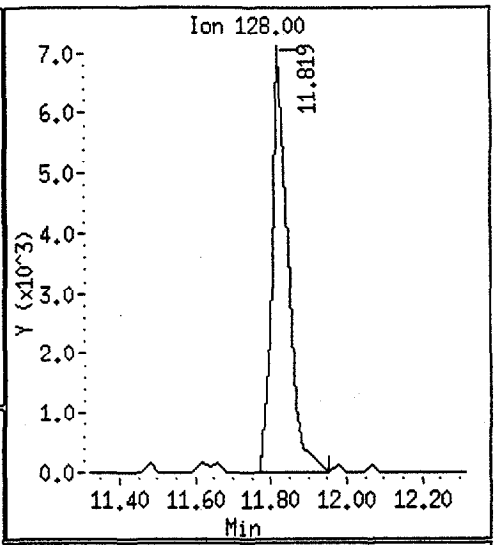
38 Naphthalene

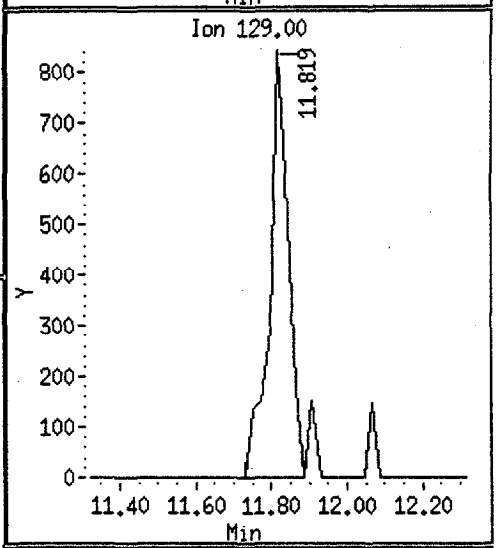


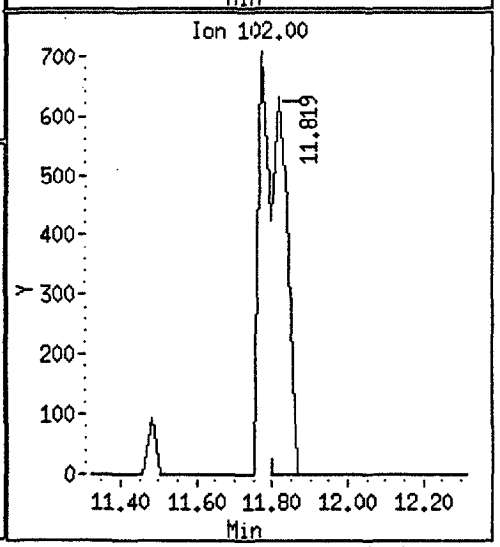












Data File: /chem/a900.i/d062894.b/d8757.d

Date : 28-JUN-94 18:48

Instrument : a900.i

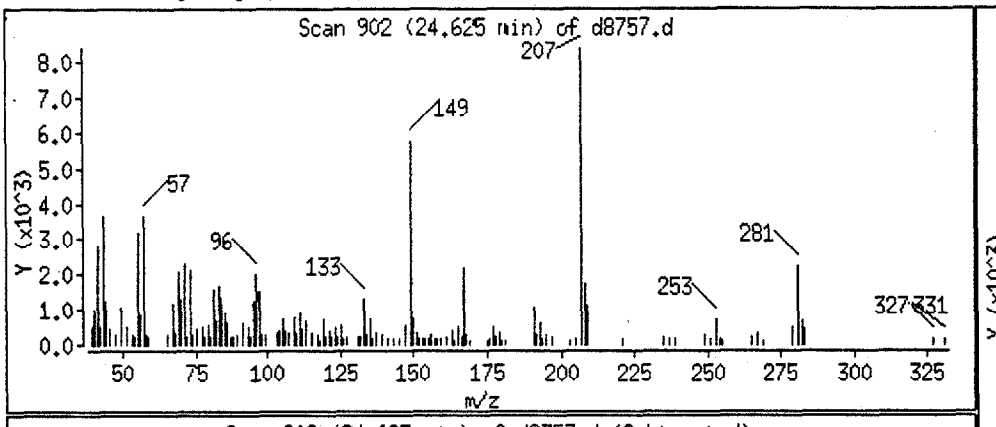
Sample ID :

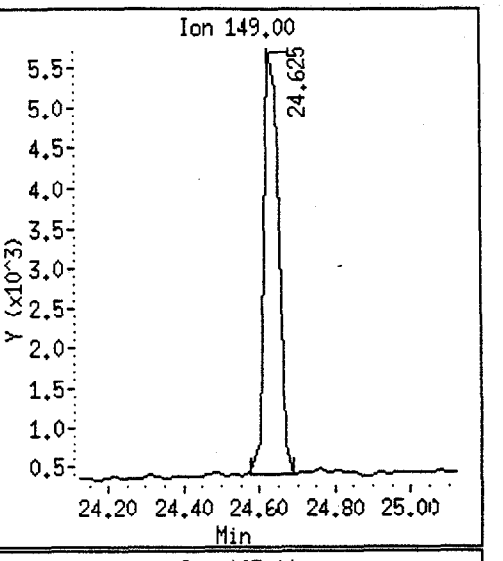
Column phase : J&W DB-5

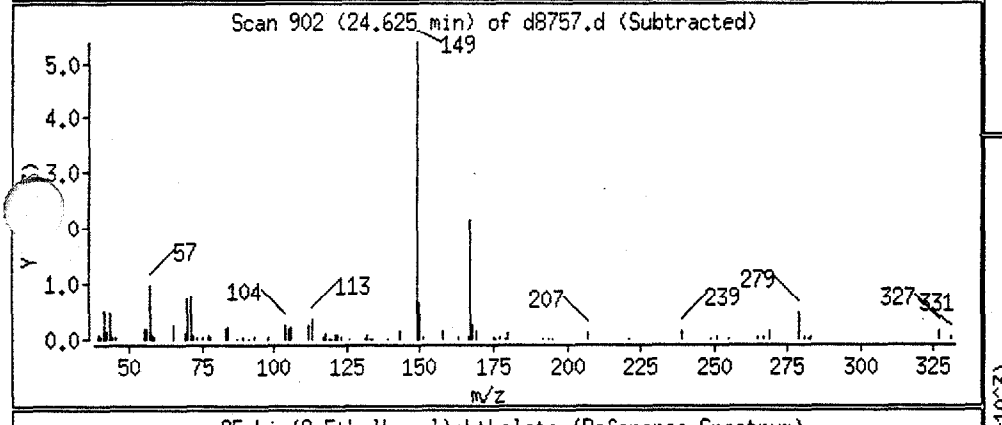
Column diameter : 0.25

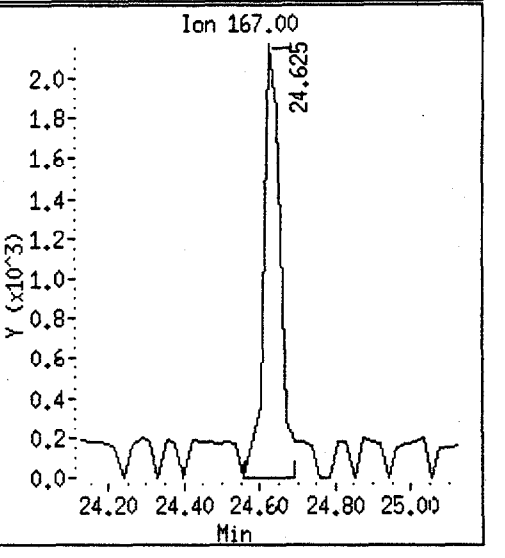
Volume Injected (uL) : 1.0

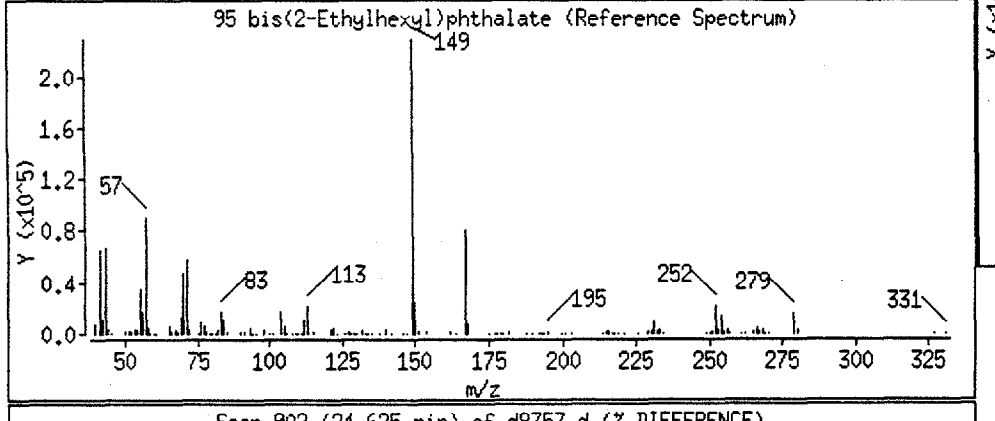
95 bis(2-Ethylhexyl)phthalate

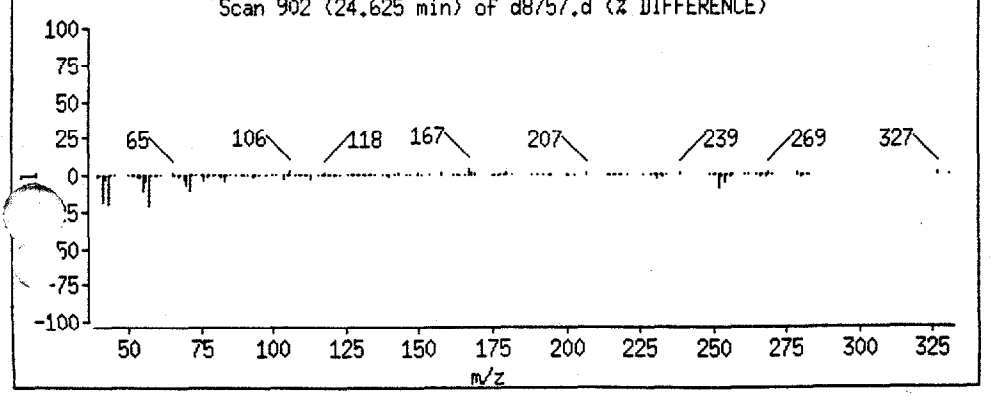








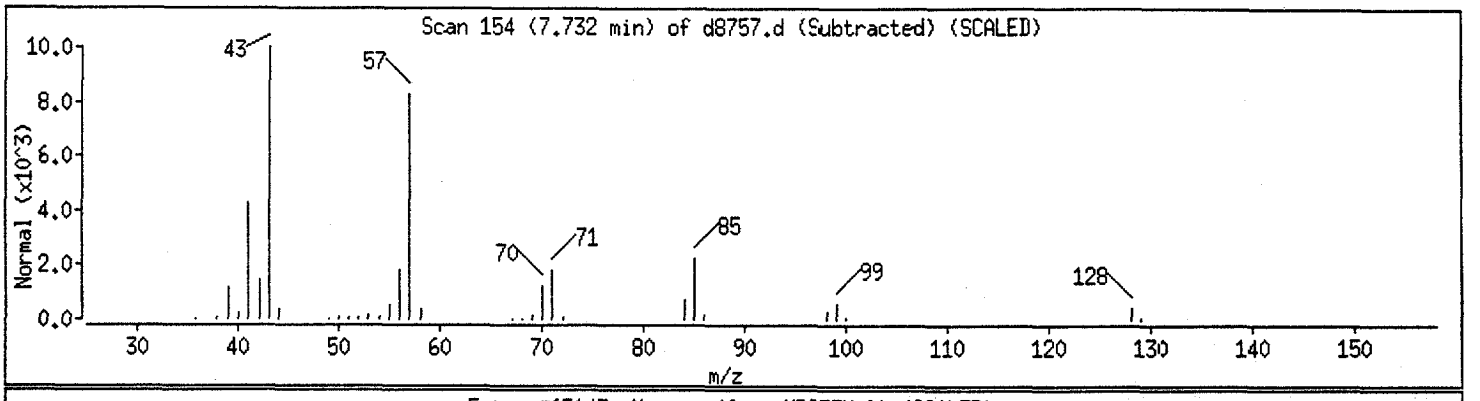


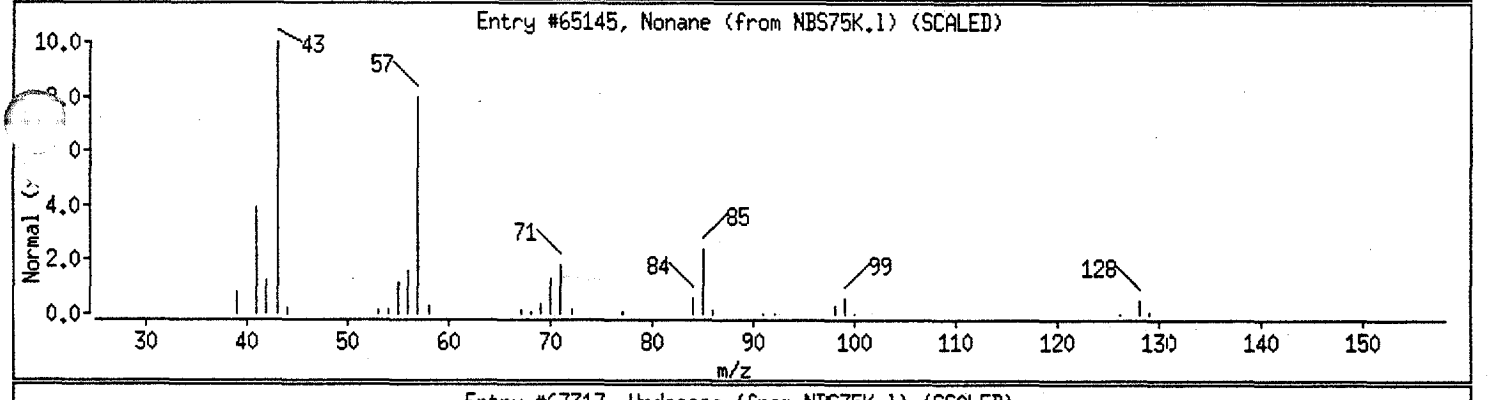


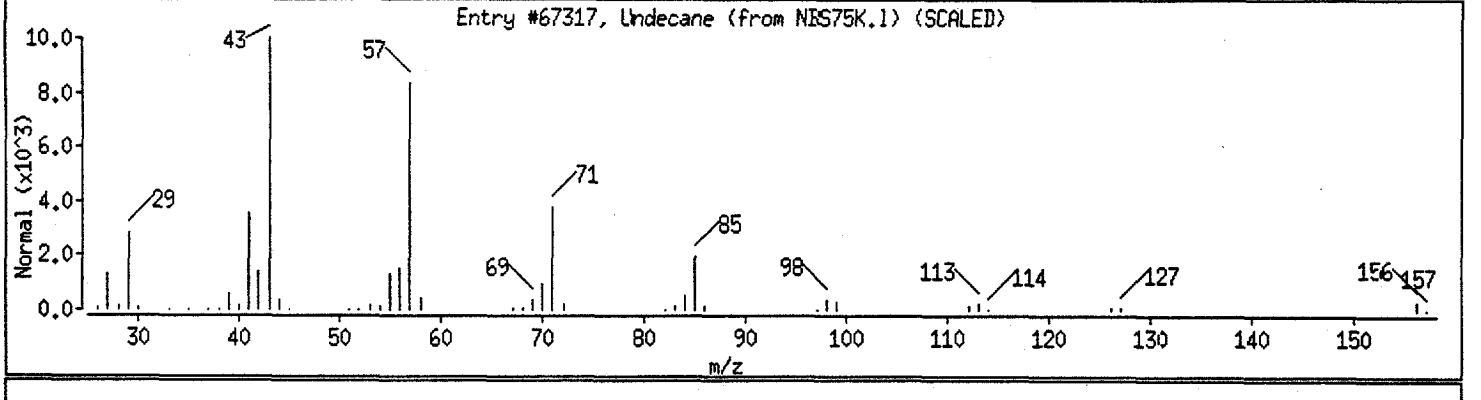
Data File: /chem/a900.i/d062894.b/d8757.d

Date : 28-JUN-94 18:48
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Nonane	111-84-2	NBS75K.l	65145	95
Undecane	1120-21-4	NBS75K.l	67317	72

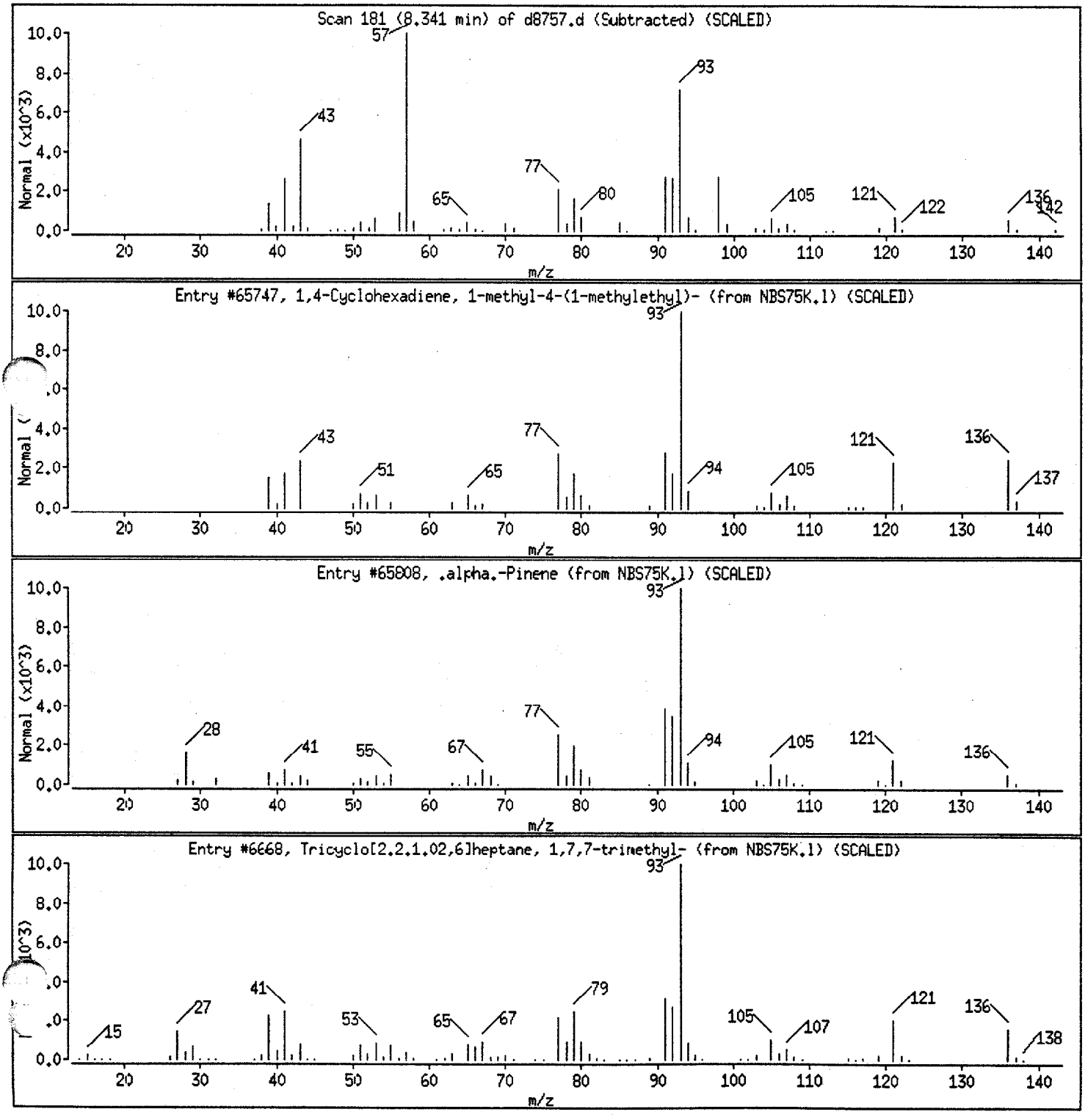






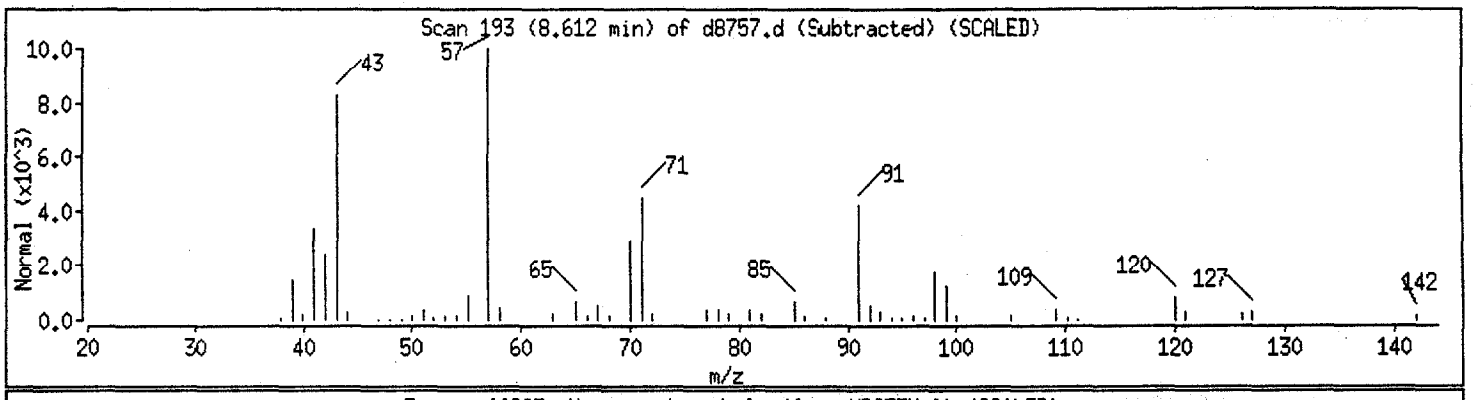
Data File: /chem/a900.i/d062894.b/d8757.d
Date : 28-JUN-94 18:48
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

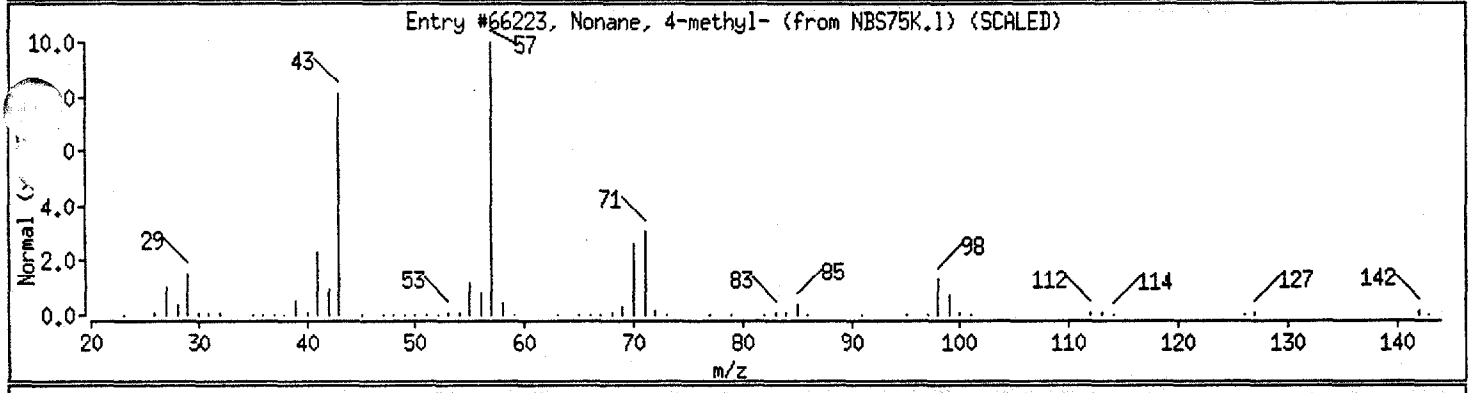
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
1,4-Cyclohexadiene, 1-methyl-4-(1-methyl	99-85-4	NBS75K.l	65747	90
.alpha.-Pinene	80-56-8	NBS75K.l	65808	60
Tricyclo[2.2.1.02,6]heptane, 1,7,7-trime	508-32-7	NBS75K.l	6668	58

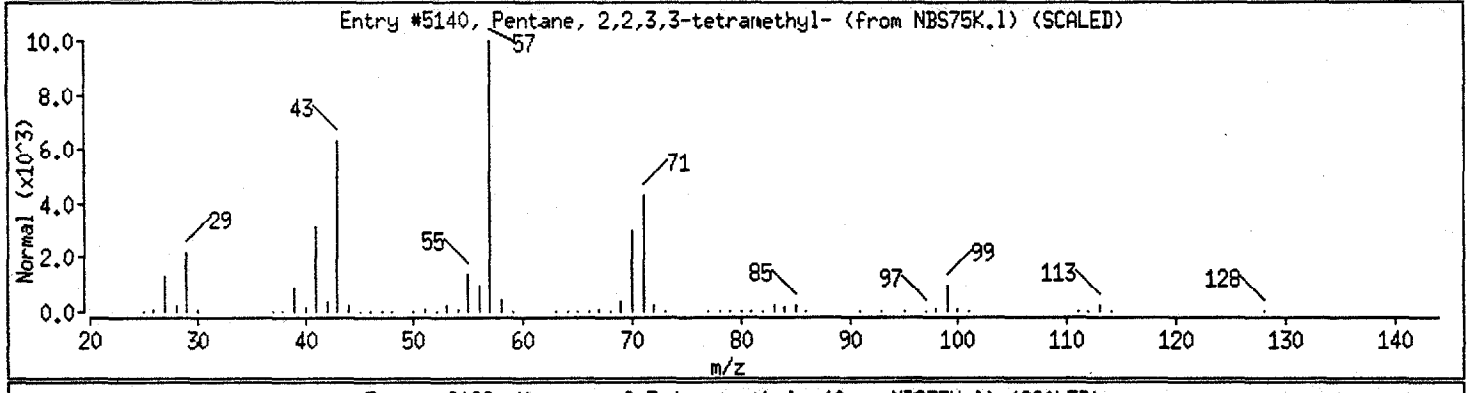


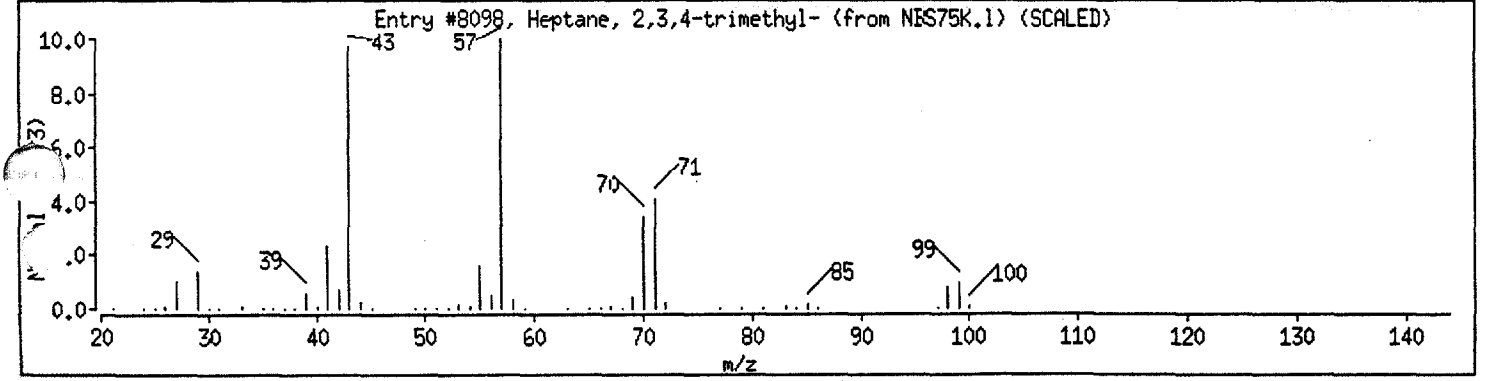
Data File: /chem/a900.i/d062894.b/d8757.d
Date : 28-JUN-94 18:48
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Nonane, 4-methyl-	17301-94-9	NBS75K.1	66223	76
Pentane, 2,2,3,3-tetramethyl-	7154-79-2	NBS75K.1	5140	50
Heptane, 2,3,4-trimethyl-	52896-95-4	NBS75K.1	8098	50



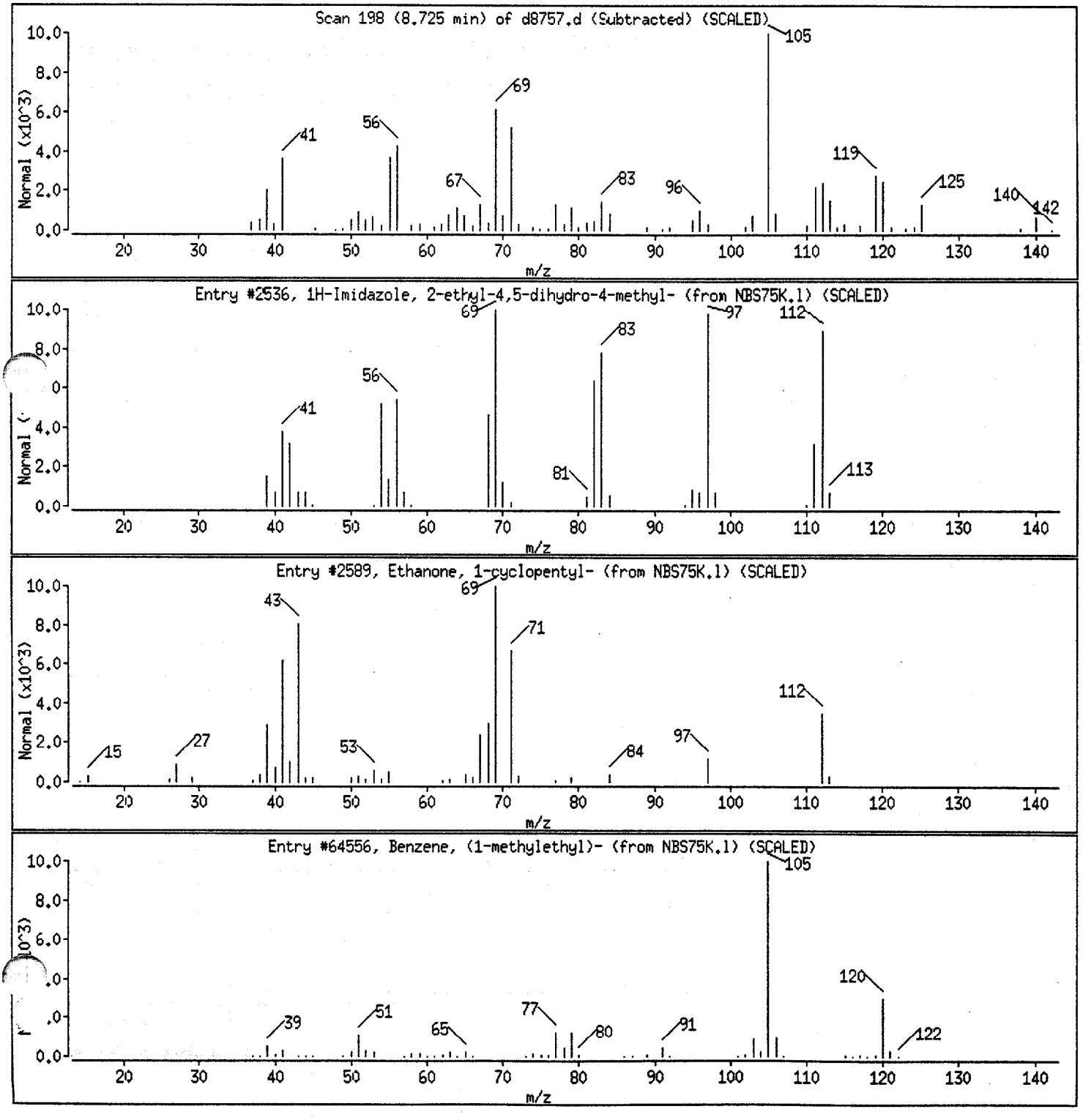






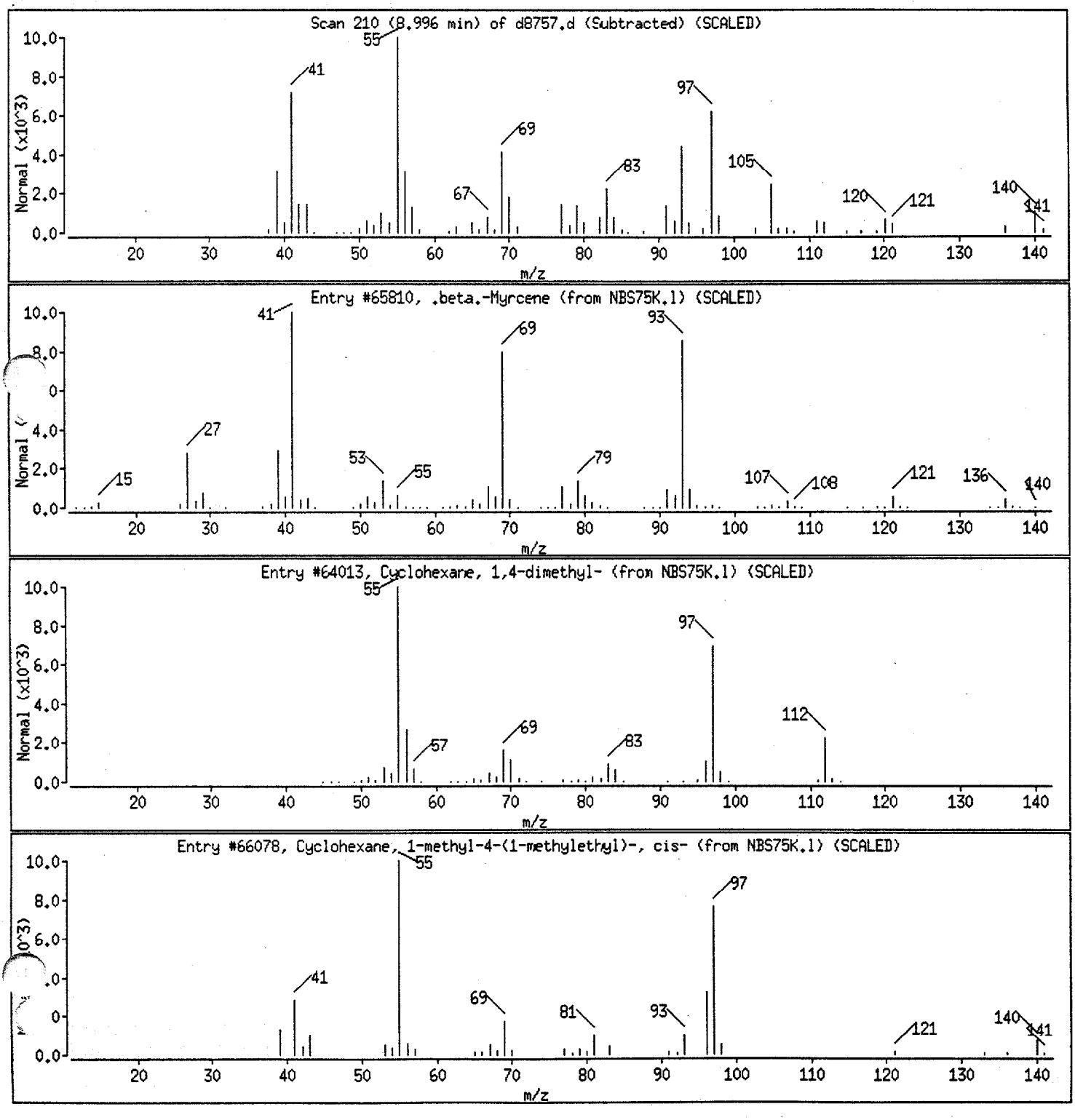
Data File: /chem/a900.i/d062894.b/d8757.d
Date : 28-JUN-94 18:48
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
1H-Imidazole, 2-ethyl-4,5-dihydro-4-meth	931-35-1	NBS75K.l	2536	30
Ethanone, 1-cyclopentyl-	6004-60-0	NBS75K.l	2589	18
Benzene, (1-methylethyl)-	98-82-8	NBS75K.l	64556	15



Data File: /chem/a900.i/d062894.b/d8757.d
Date : 28-JUN-94 18:48
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

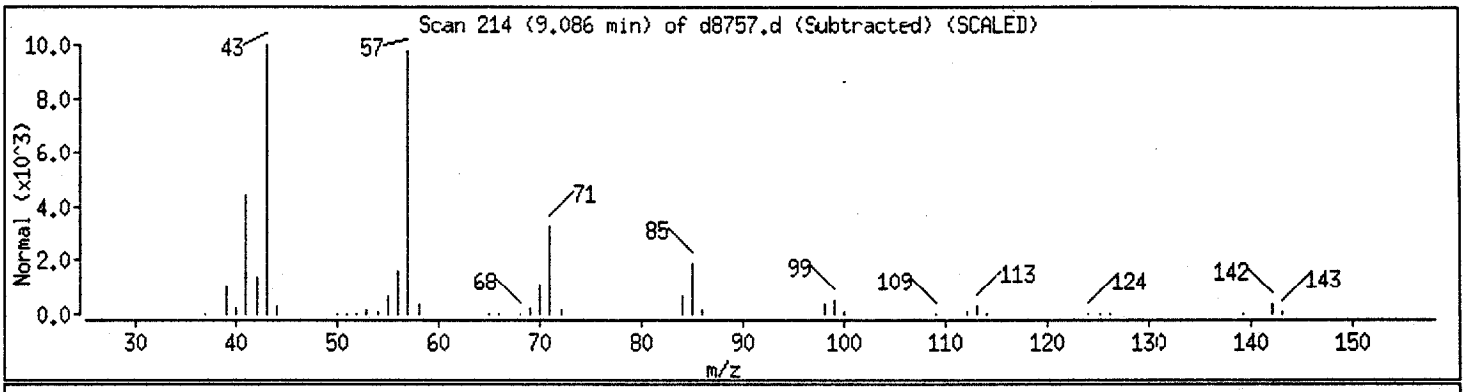
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
.beta.-Myrcene	123-35-3	NBS75K.1	65810	53
Cyclohexane, 1,4-dimethyl-	589-90-2	NBS75K.1	64013	50
Cyclohexane, 1-methyl-4-(1-methylethyl)-	6069-98-3	NBS75K.1	66078	38

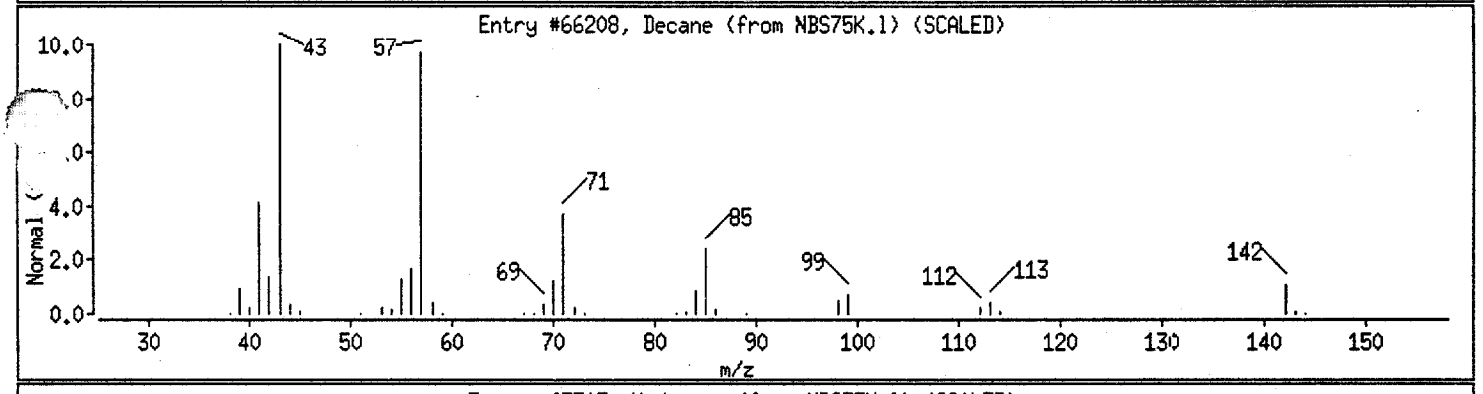


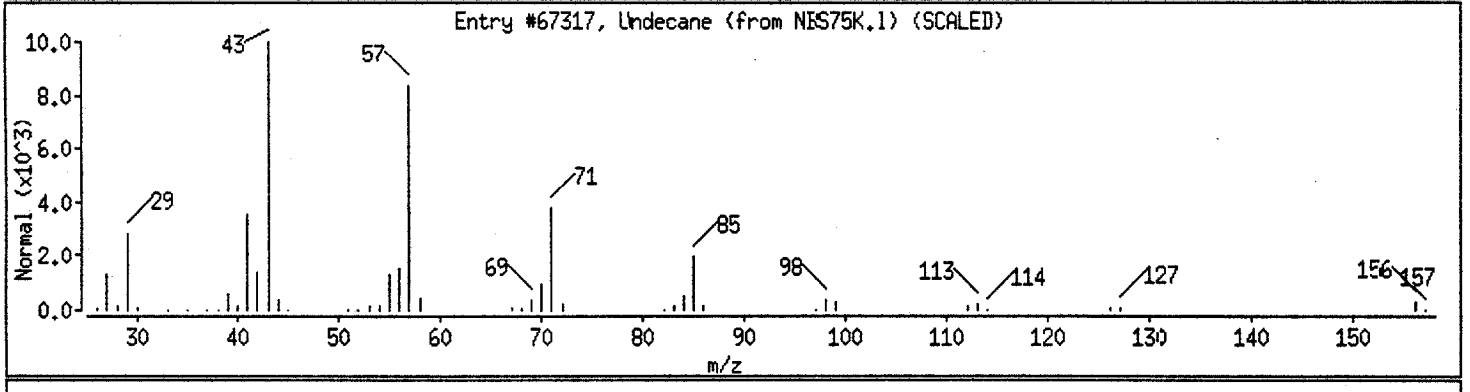
Data File: /chem/a900.i/d062894.b/d8757.d

Date : 28-JUN-94 18:48
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Decane	124-18-5	NBS75K.1	66208	96
Undecane	1120-21-4	NBS75K.1	67317	90



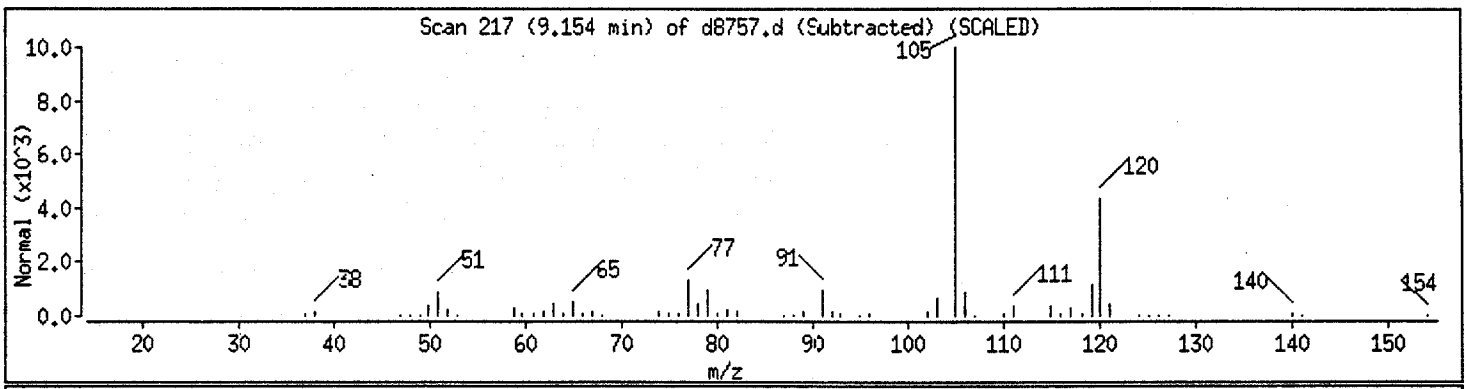


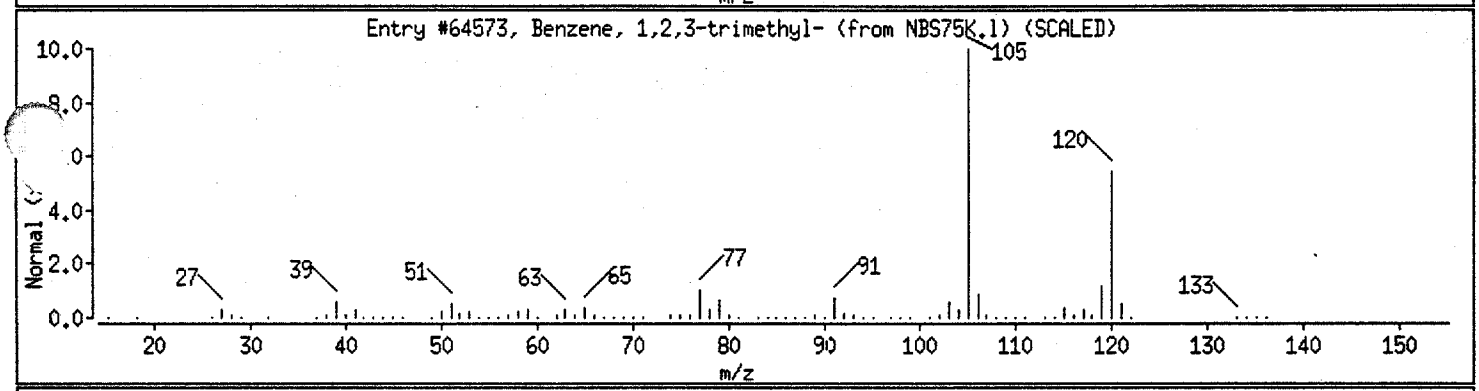


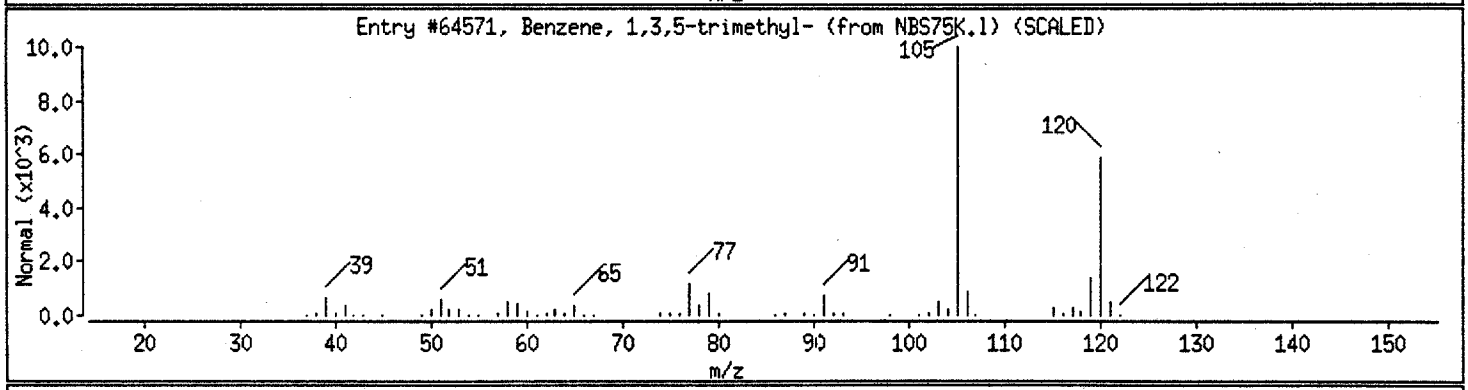
Data File: /chem/a900.i/d062894.b/d8757.d

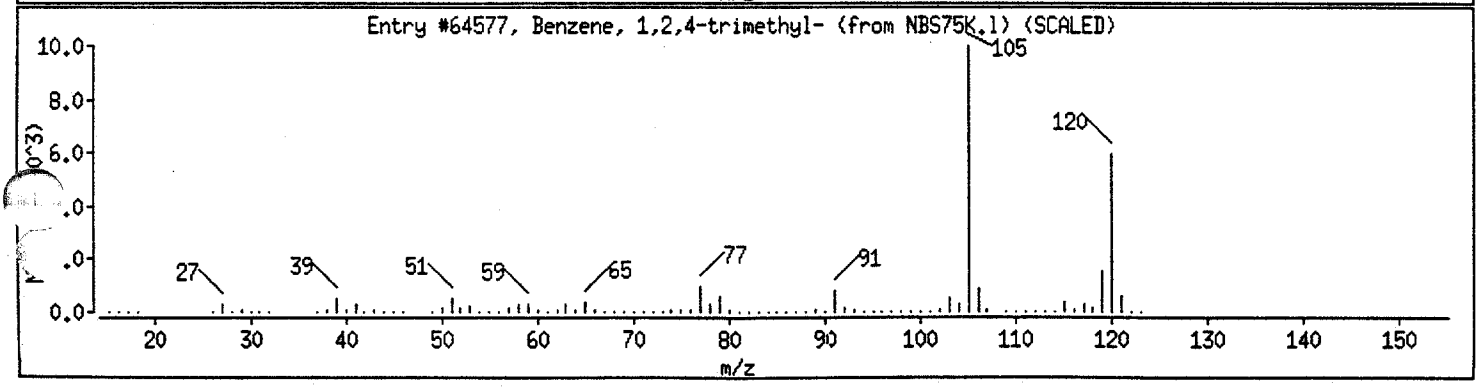
Date : 28-JUN-94 18:48
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Benzene, 1,2,3-trimethyl-	526-73-8	NBS75K.1	64573	95
Benzene, 1,3,5-trimethyl-	108-67-8	NBS75K.1	64571	95
Benzene, 1,2,4-trimethyl-	95-63-6	NBS75K.1	64577	94





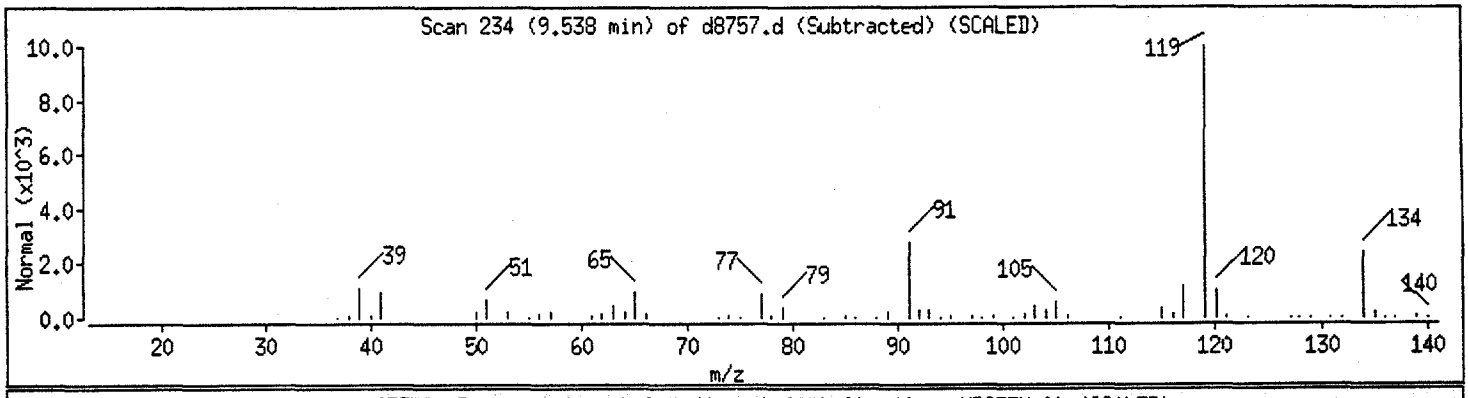


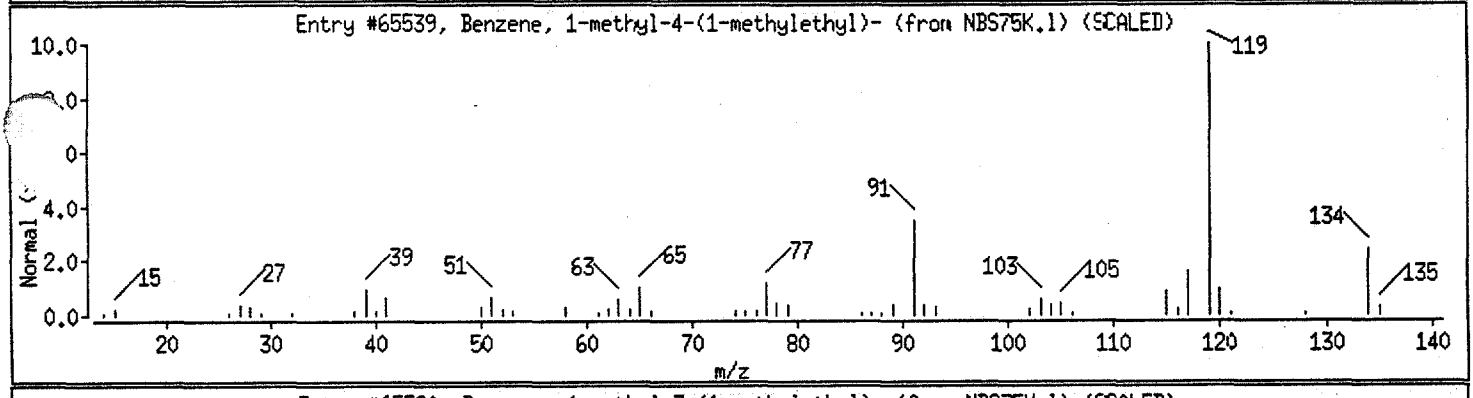


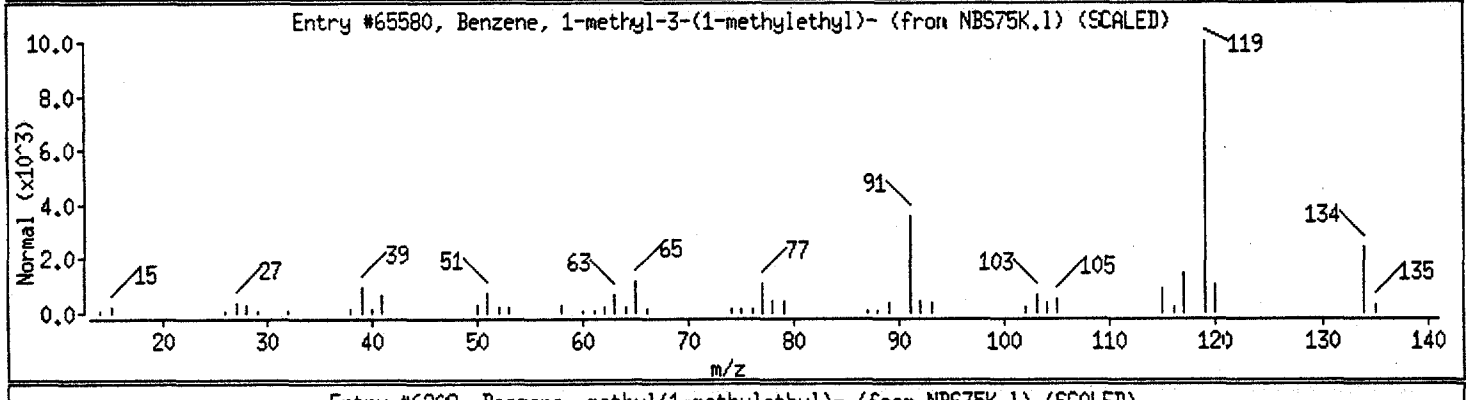
Data File: /chem/a900.i/d062894.b/d8757.d

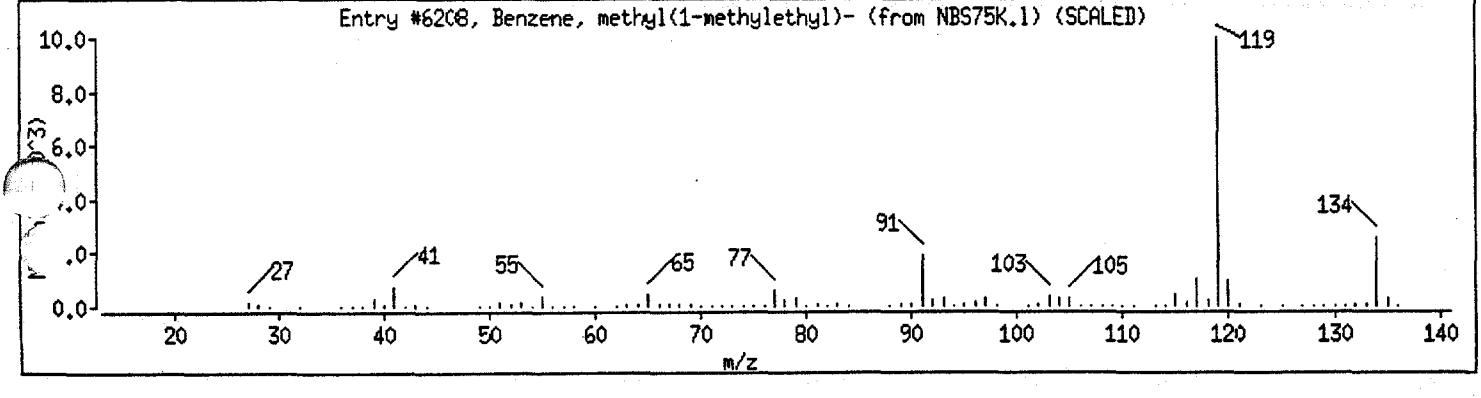
Date : 28-JUN-94 18:48
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Benzene, 1-methyl-4-(1-methylethyl)-	99-87-6	NBS75K.1	65539	91
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	NBS75K.1	65580	91
Benzene, methyl(1-methylethyl)-	25155-15-1	NBS75K.1	6208	90



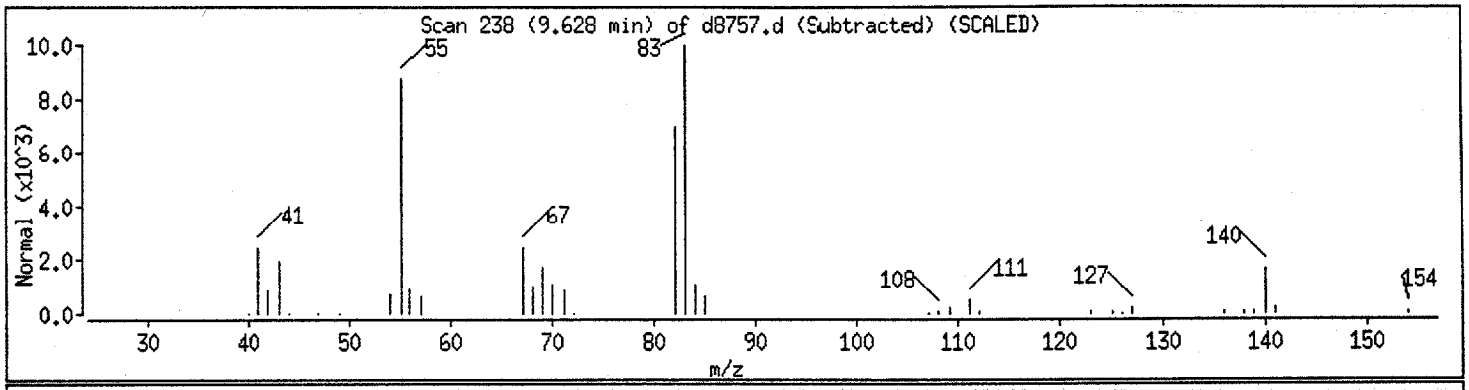


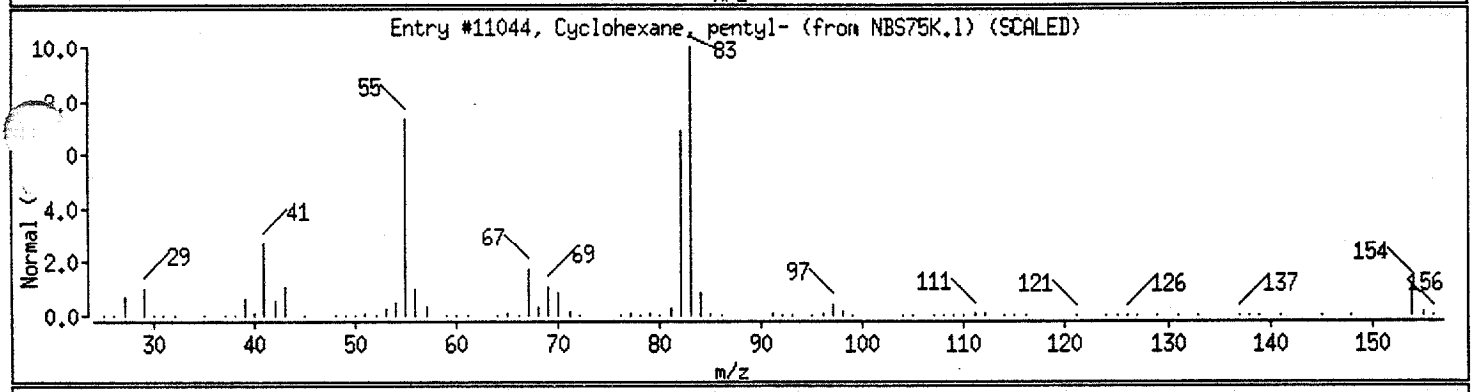


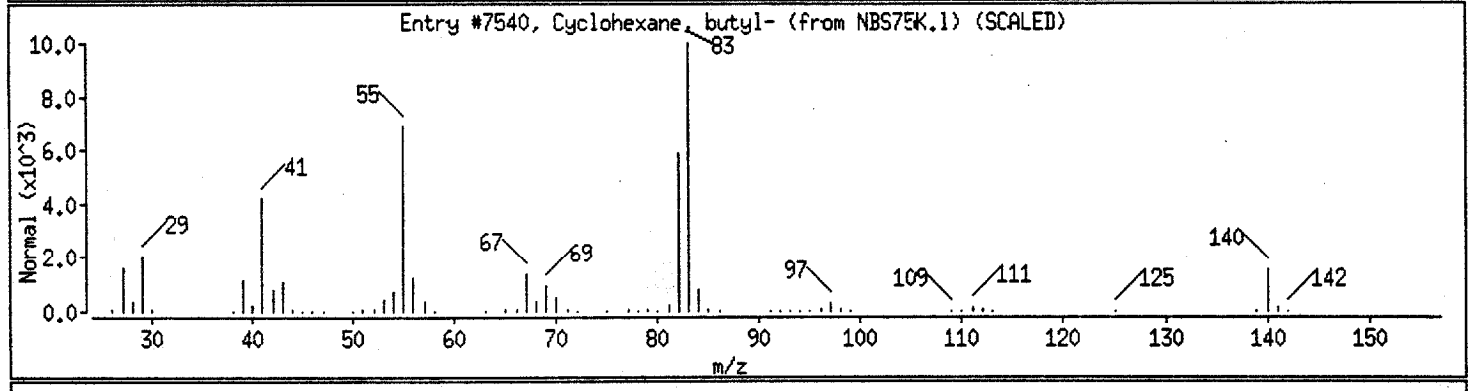


Data File: /chem/a900.i/d062894.b/d8757.d
Date : 28-JUN-94 18:48
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Cyclohexane, pentyl-	4292-92-6	NBS75K.1	11044	87
Cyclohexane, butyl-	1678-93-9	NBS75K.1	7540	86

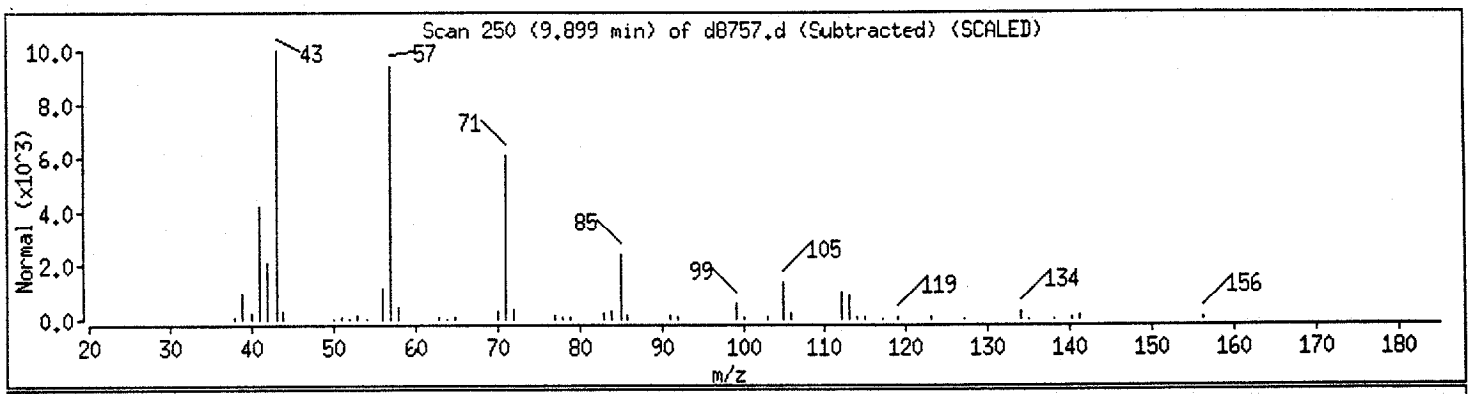


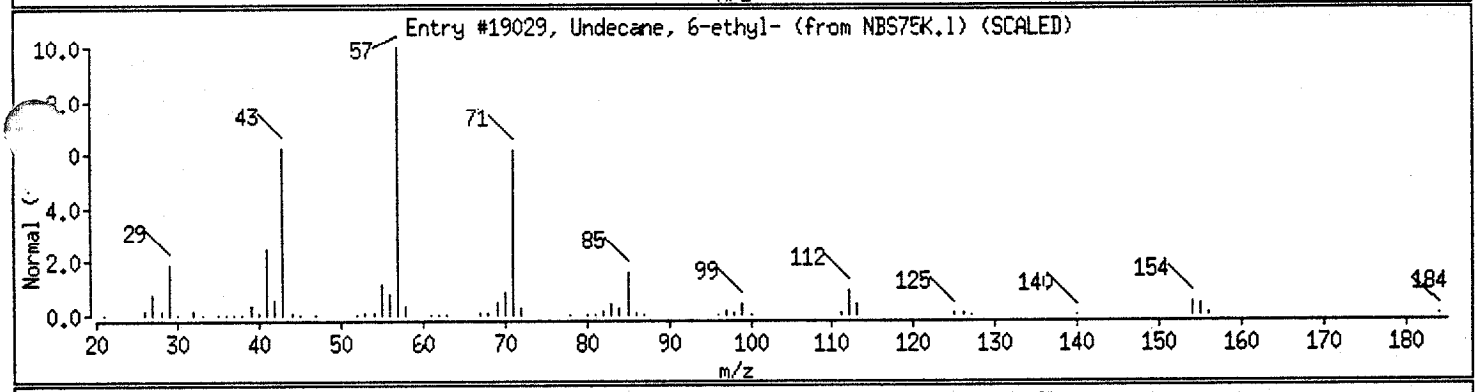


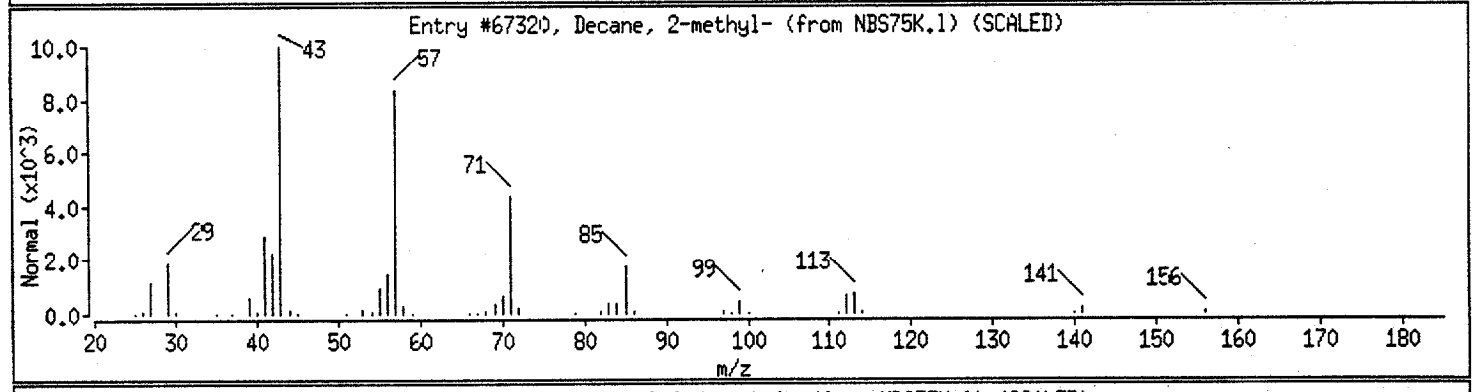


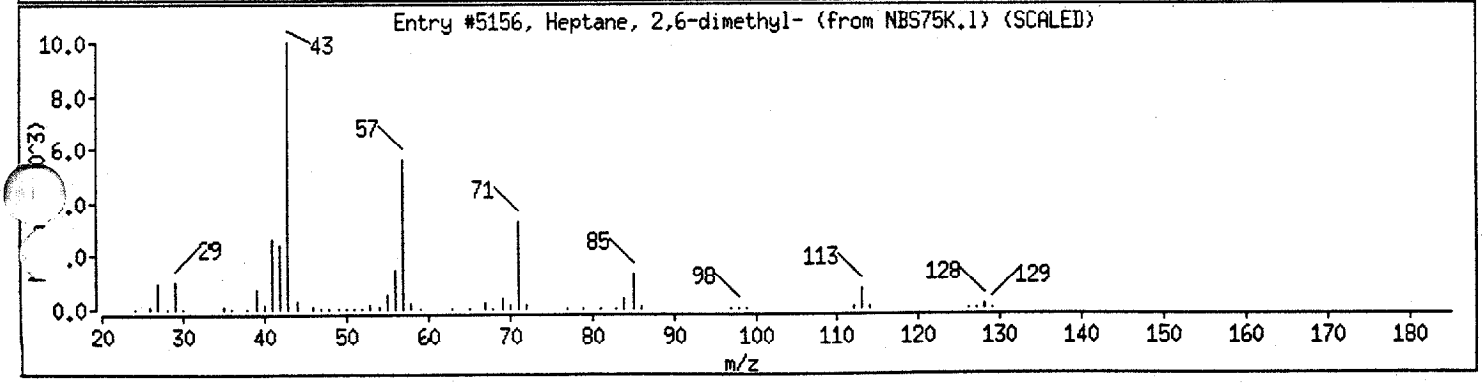
Data File: /chem/a900.i/d062894.b/d8757.d
Date : 28-JUN-94 18:48
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Undecane, 6-ethyl-	17312-60-6	NBS75K.l	19029	64
Decane, 2-methyl-	6975-98-0	NBS75K.l	67320	62
Heptane, 2,6-dimethyl-	1072-05-5	NBS75K.l	5156	59









Data File: /chem/a900.i/d062894.b/d8757.d

Date : 28-JUN-94 18:48

Instrument : a900.i

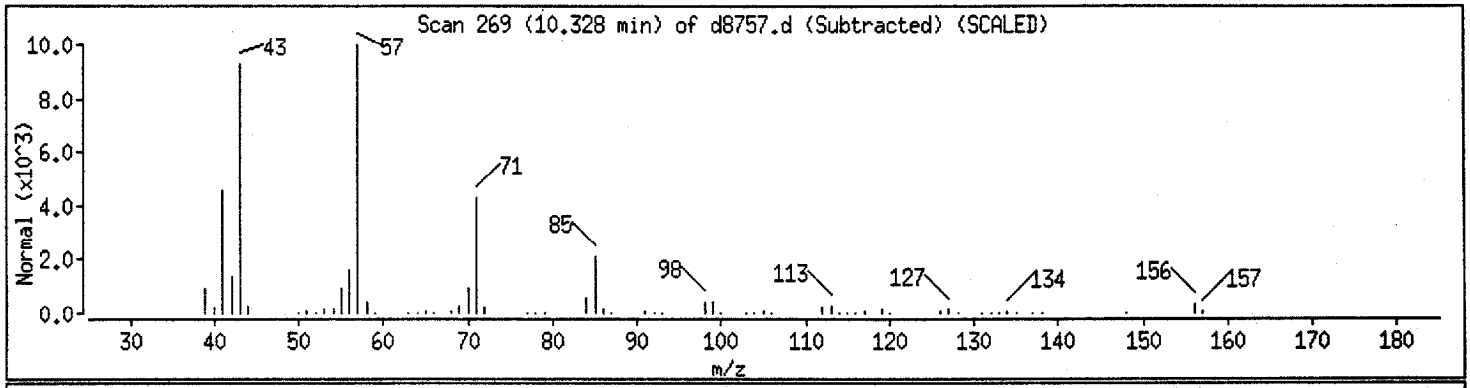
Sample ID :

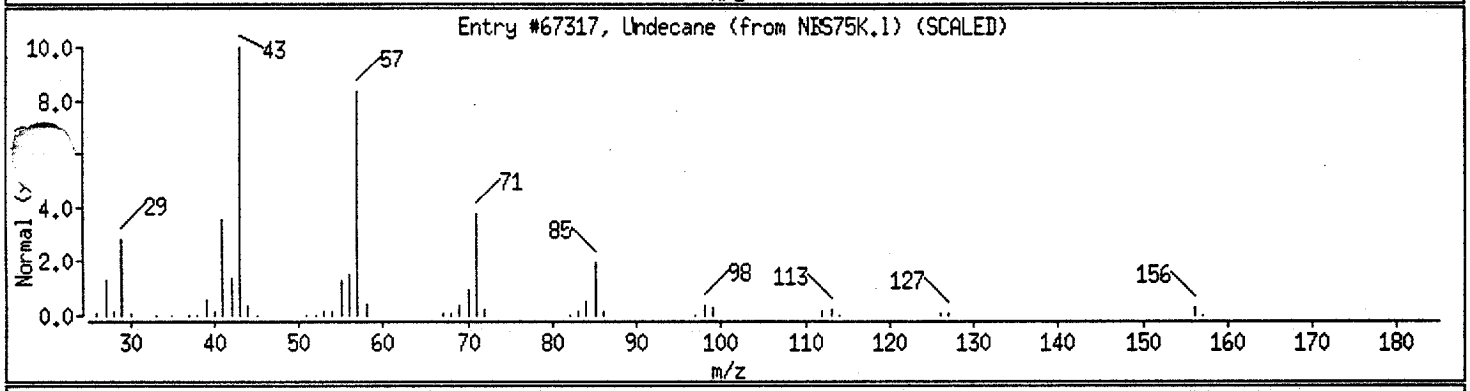
Column phase : J&W DB-5

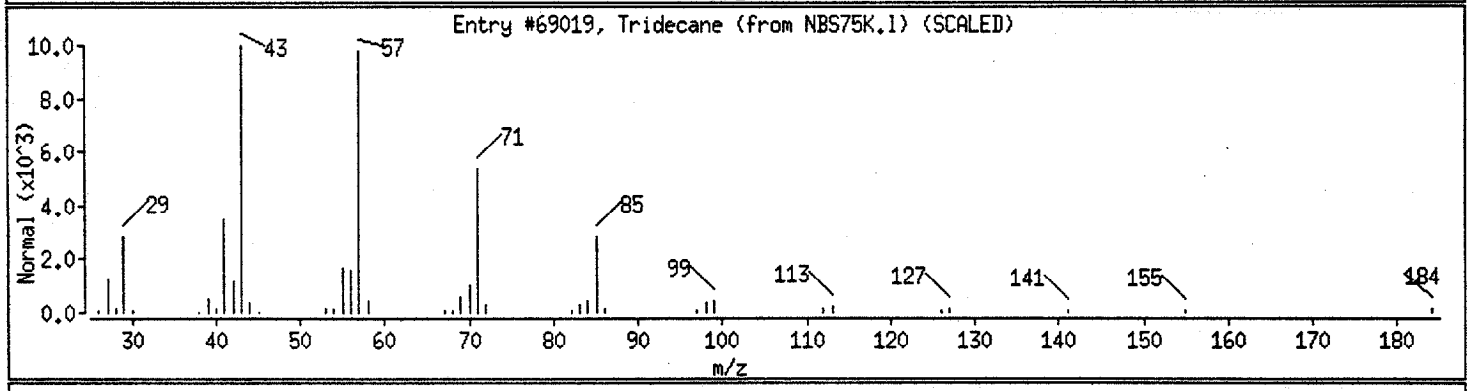
Column diameter : 0.25

Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Undecane	1120-21-4	NBS75K.l	67317	97
Tridecane	629-50-5	NBS75K.l	69019	90

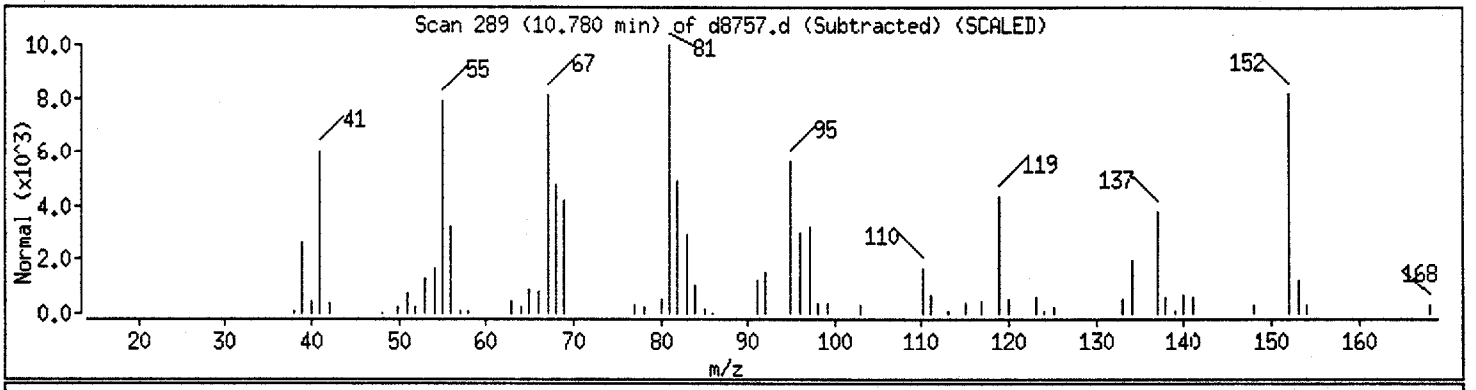


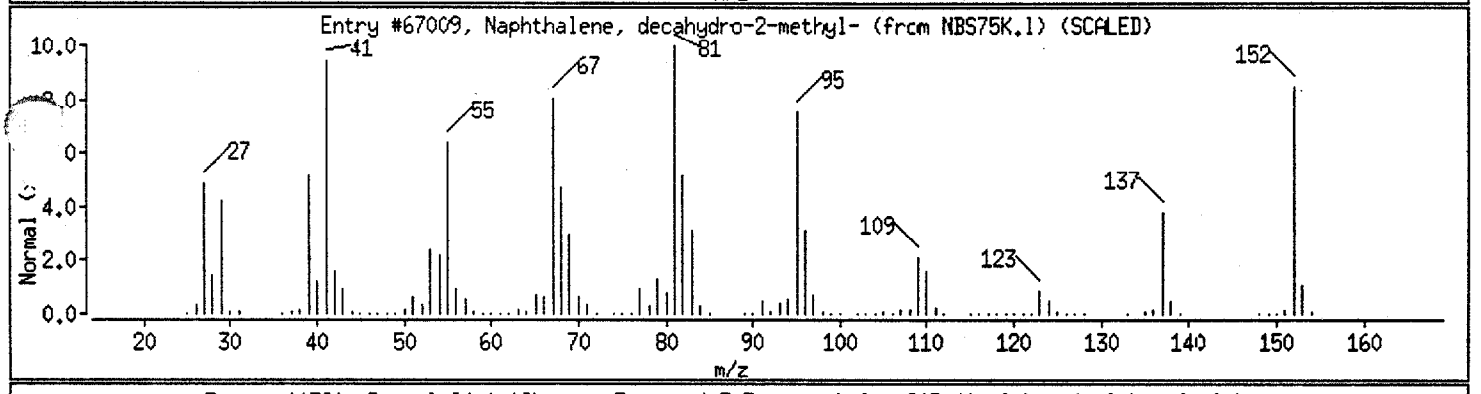


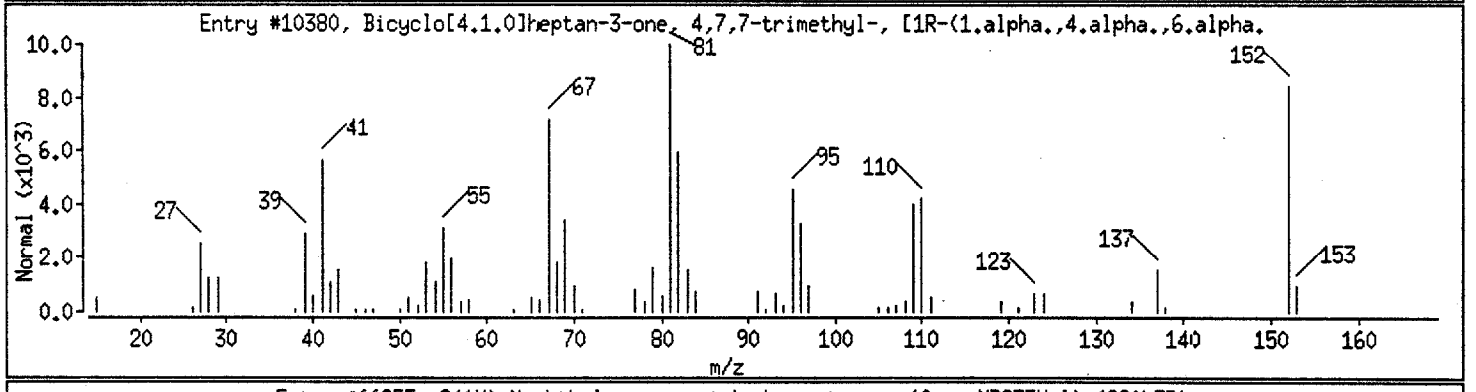


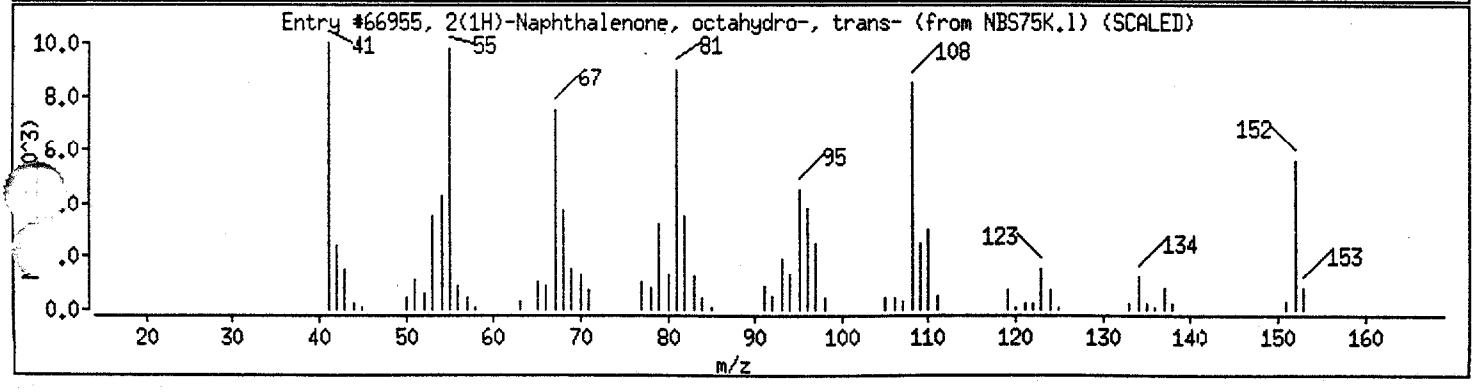
Data File: /chem/a900.i/d062894.b/d8757.d
Date : 28-JUN-94 18:48
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Naphthalene, decahydro-2-methyl-	2958-76-1	NBS75K.l	67009	86
Bicyclo[4.1.0]heptan-3-one, 4,7,7-trimet	4176-04-9	NBS75K.l	10380	81
2(1H)-Naphthalenone, octahydro-, trans-	16021-08-2	NBS75K.l	66955	74



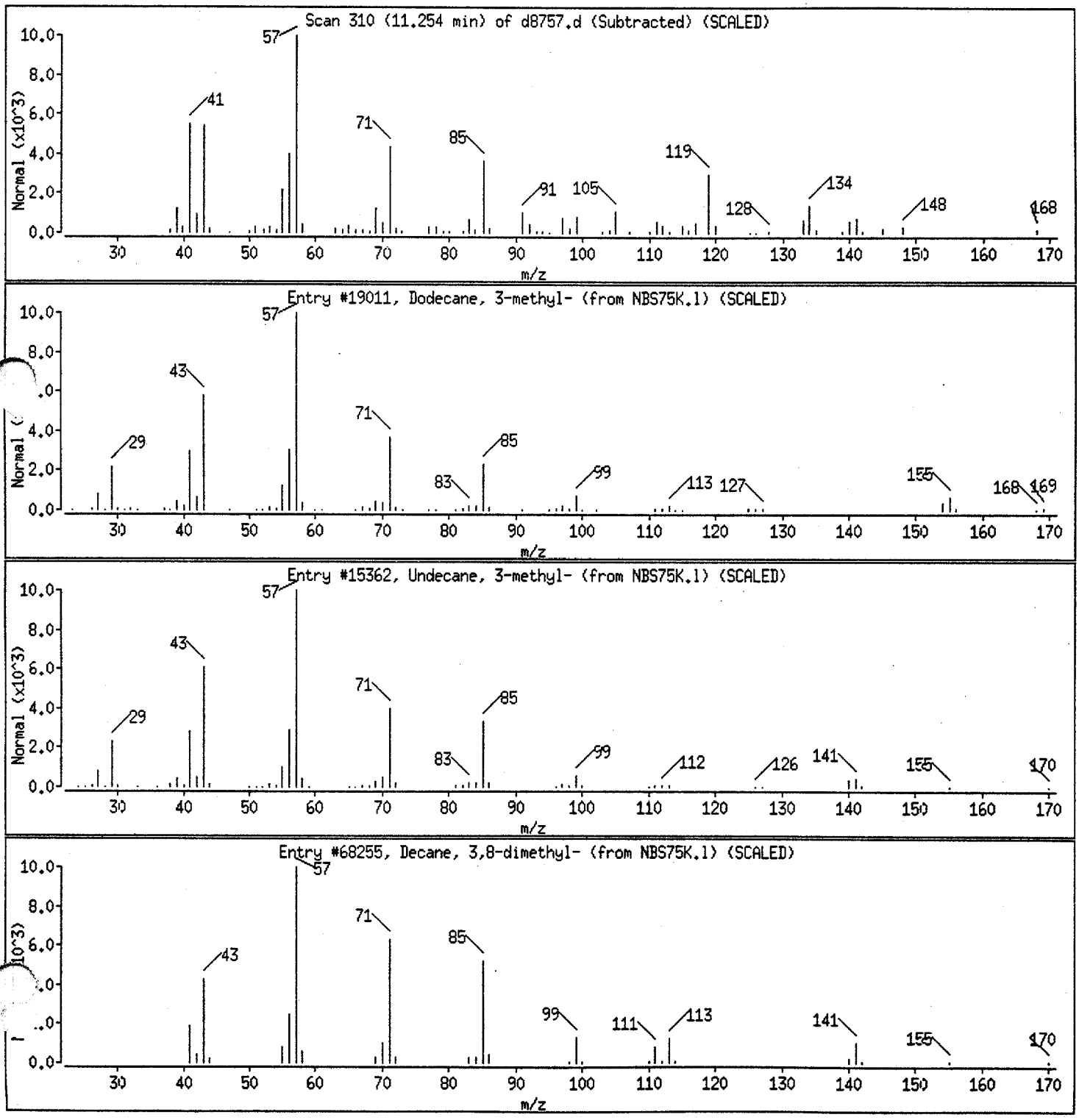






Data File: /chem/a900.i/d062894.b/d8757.d
Date : 28-JUN-94 18:48
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 1.0

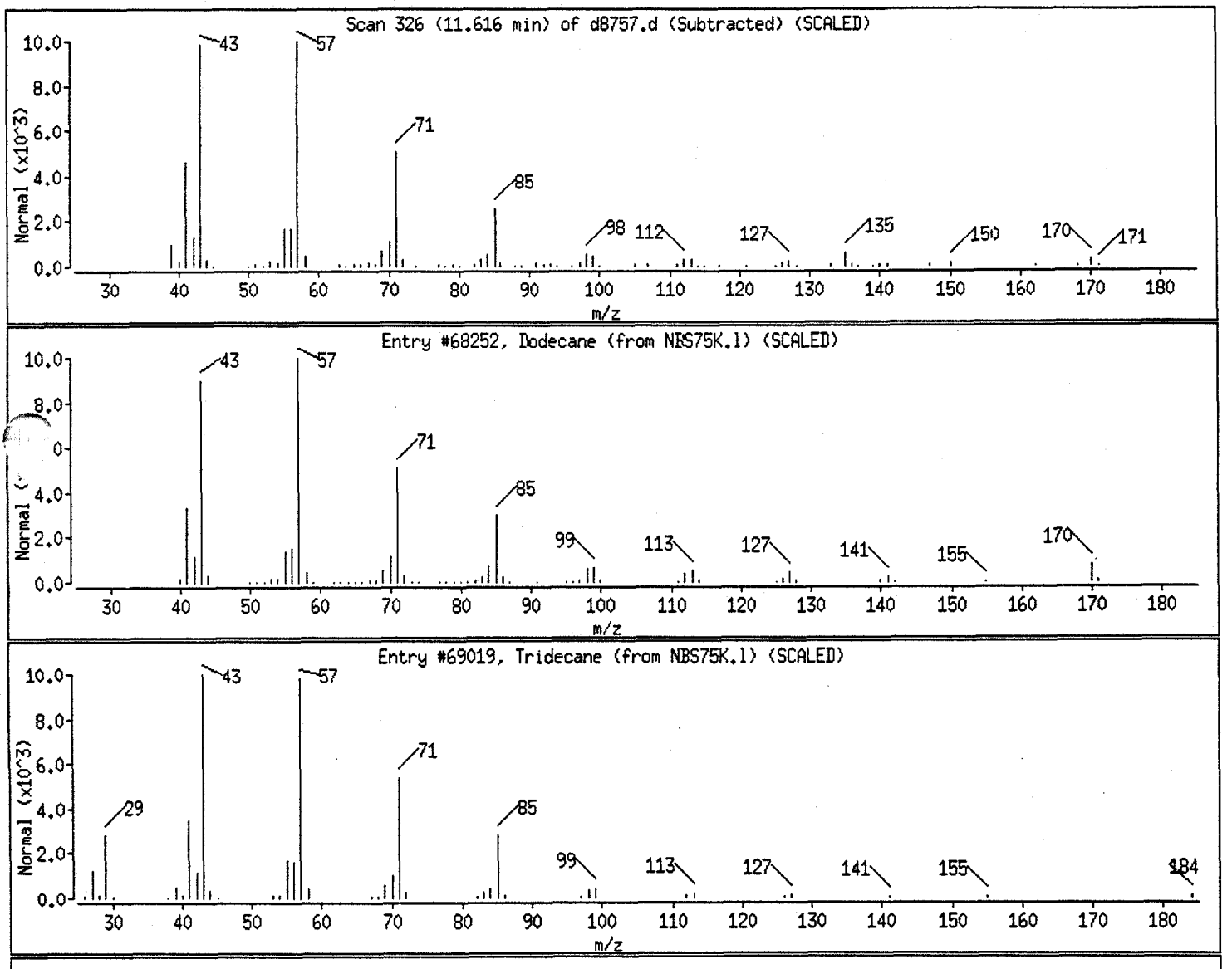
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Dodecane, 3-methyl-	17312-57-1	NBS75K.1	19011	53
Undecane, 3-methyl-	1002-43-3	NBS75K.1	15362	52
Decane, 3,8-dimethyl-	17312-55-9	NBS75K.1	68255	38



Data File: /chem/a900.i/d062894.b/d8757.d

Date : 28-JUN-94 18:48
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

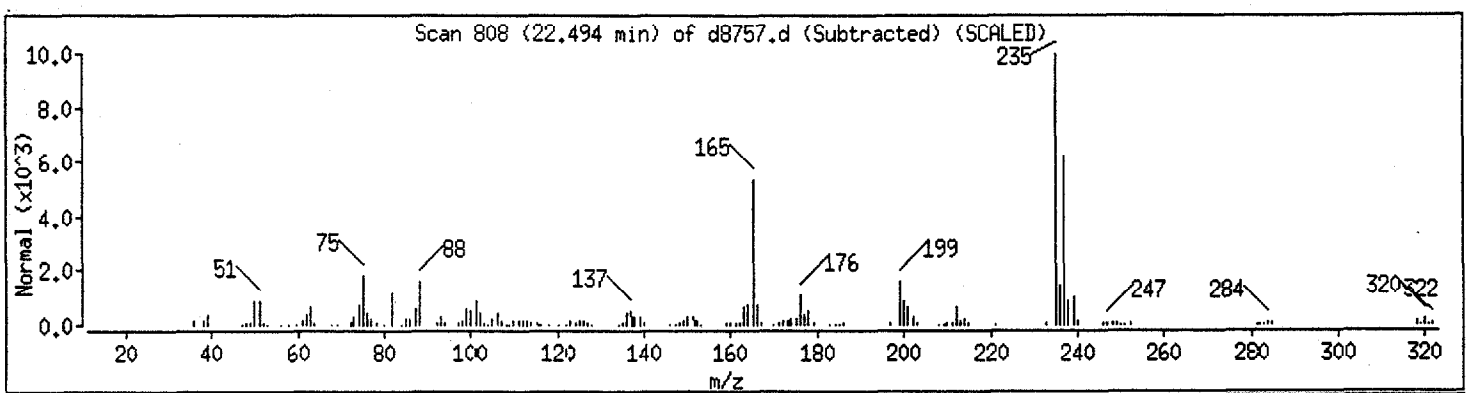
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Dodecane	112-40-3	NBS75K.l	68252	96
Tridecane	629-50-5	NBS75K.l	69019	87

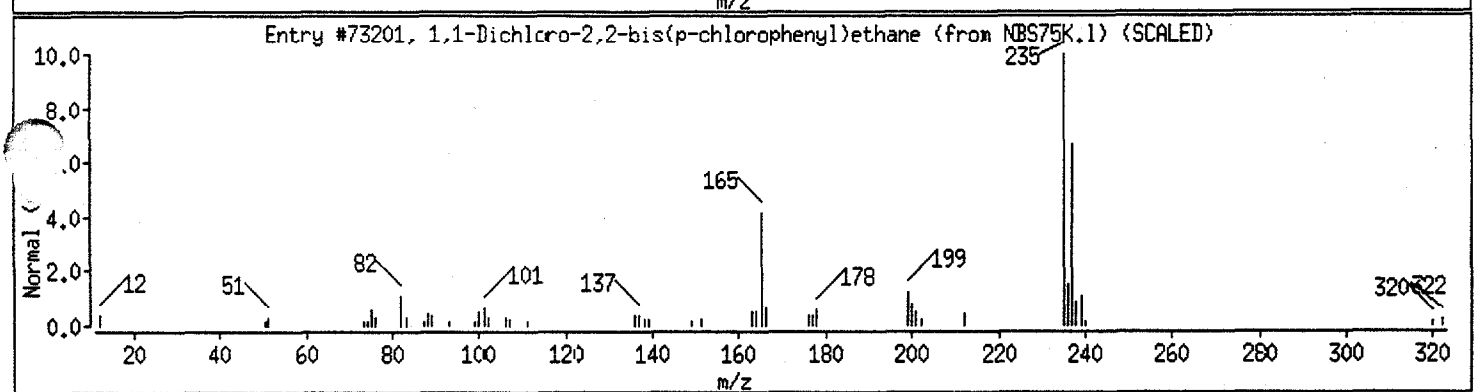


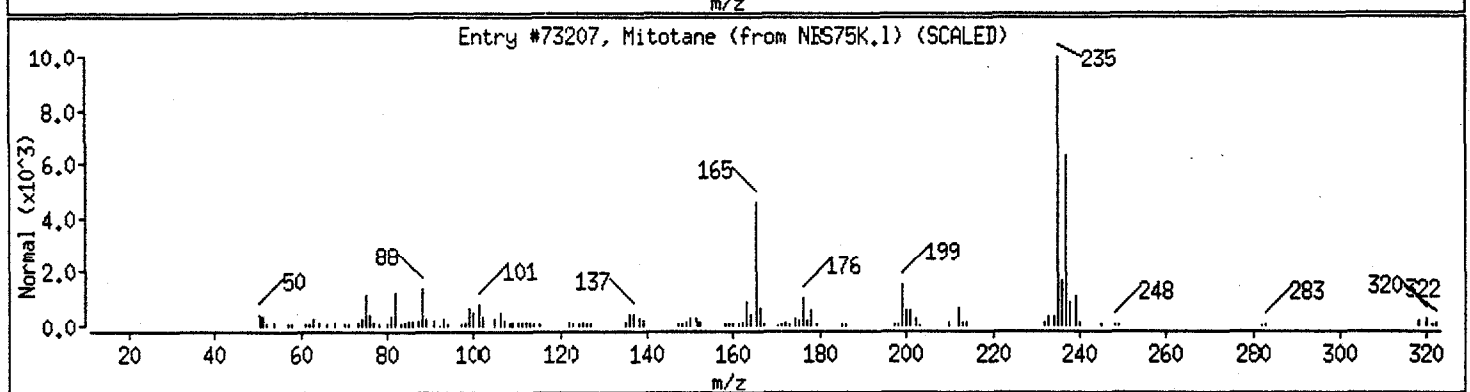
Data File: /chem/a900.i/d062894.b/d8757.d

Date : 28-JUN-94 18:48
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
1,1-Dichloro-2,2-bis(p-chlorophenyl)etha	72-54-8	NBS75K.1	73201	95
Mitotane	53-19-0	NBS75K.1	73207	95

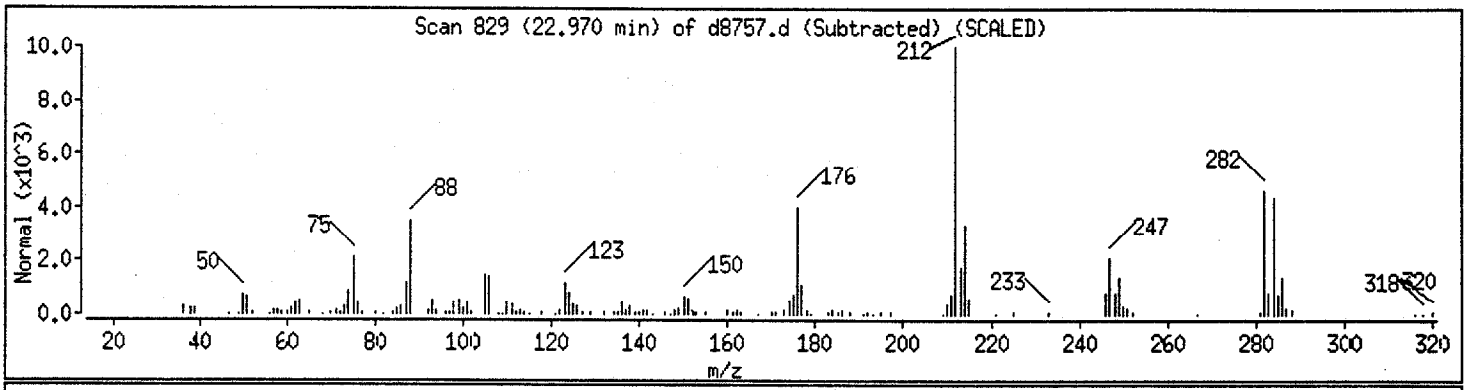


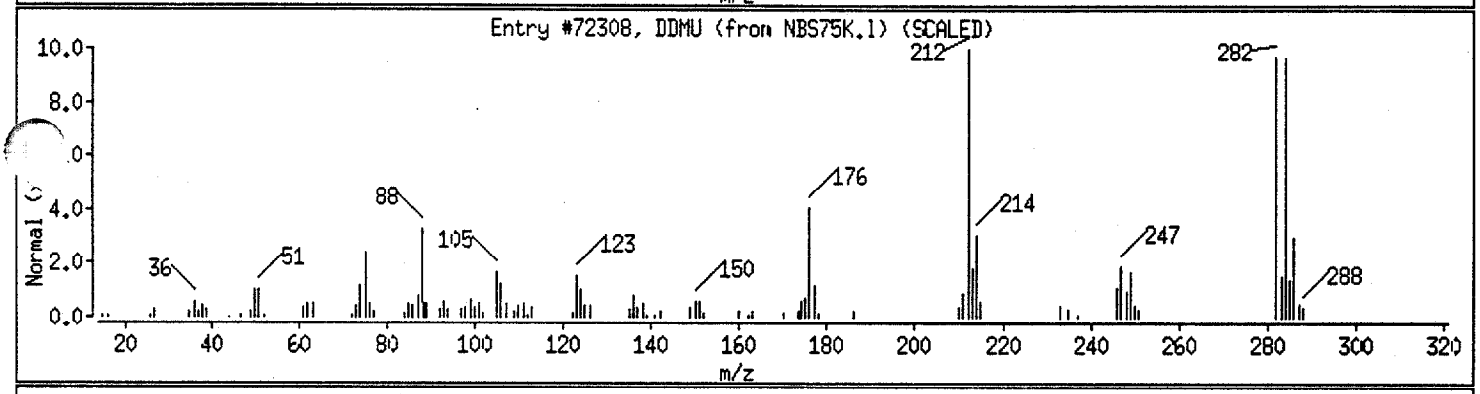


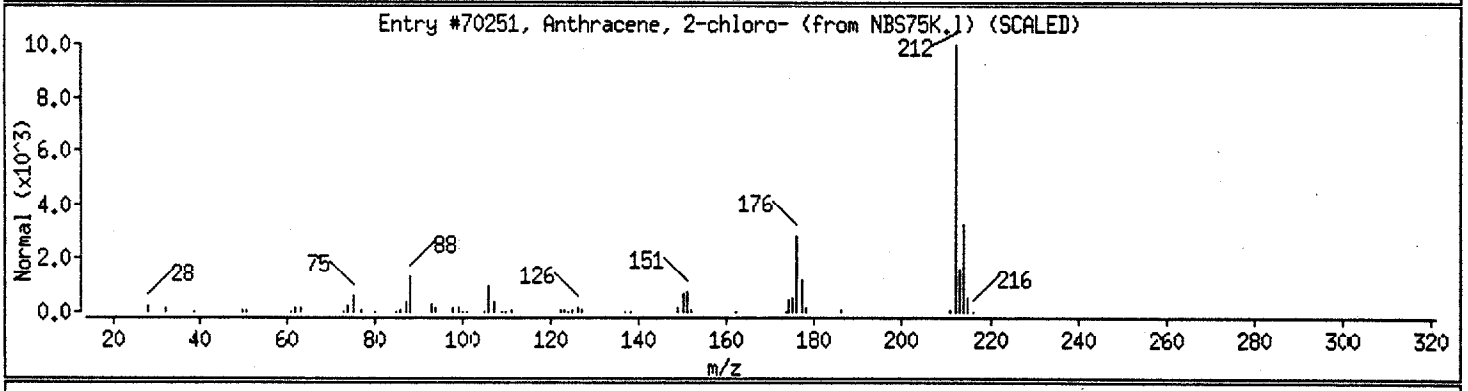


Data File: /chem/a900.i/d062894.b/d8757.d
Date : 28-JUN-94 18:48
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
DDMU	1022-22-6	NBS75K.l	72308	96
Anthracene, 2-chloro-	17135-78-3	NBS75K.l	70251	86

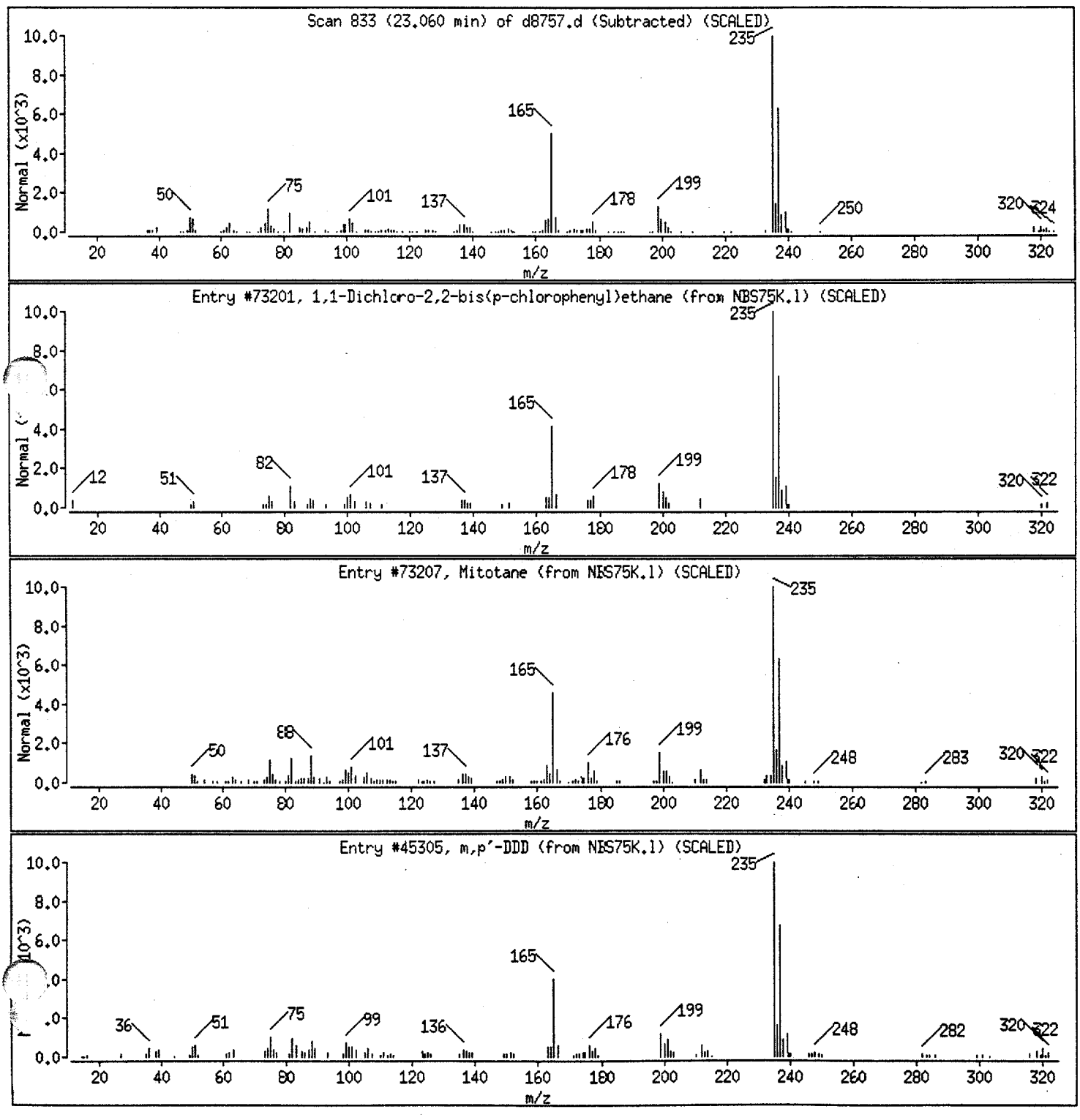






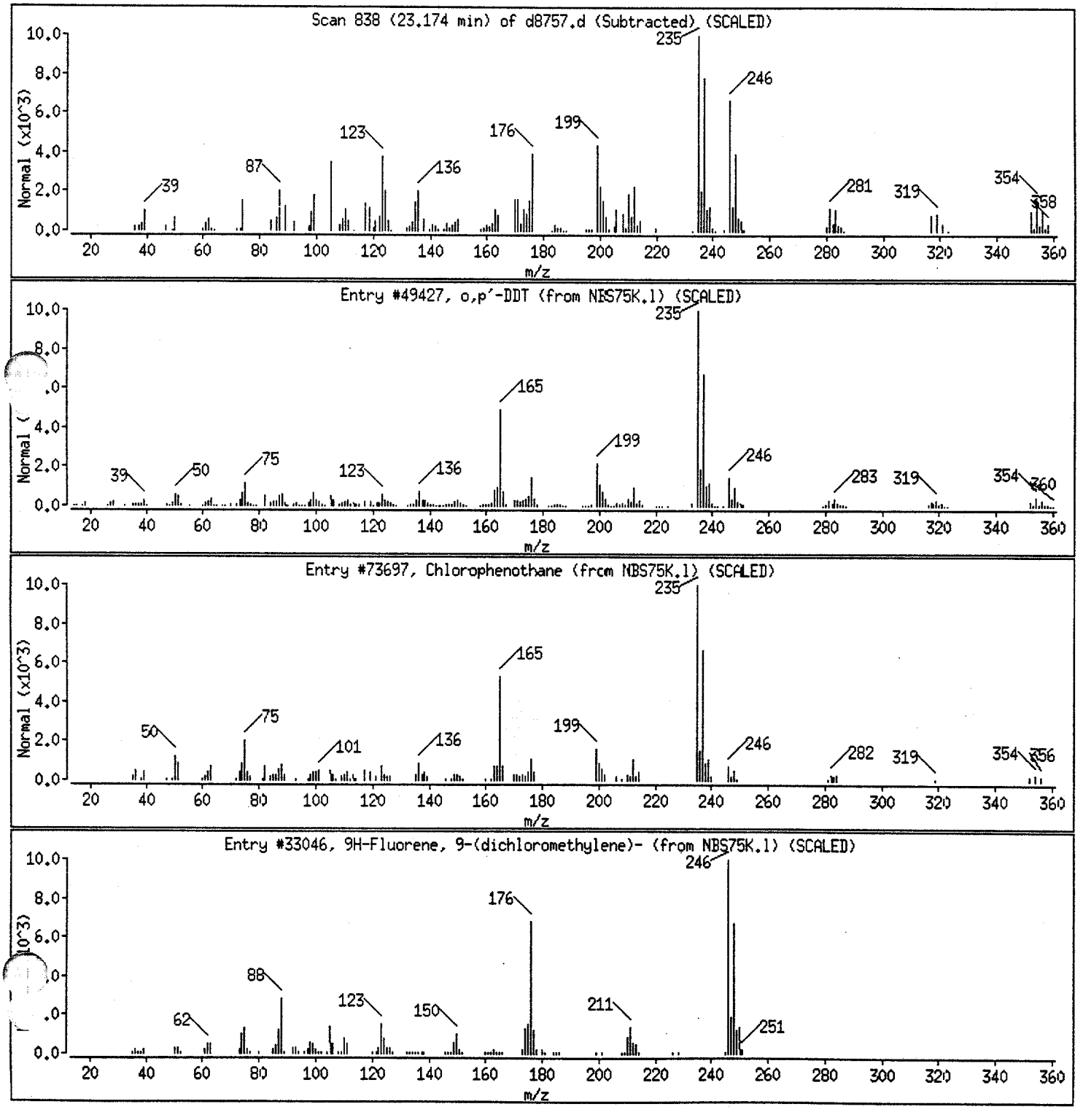
Data File: /chem/a900.i/d062894.b/d8757.d
Date : 28-JUN-94 18:48
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
1,1-Dichloro-2,2-bis(p-chlorophenyl)etha	72-54-8	NBS75K.l	73201	96
Mitotane	53-19-0	NBS75K.l	73207	94
m,p'-DDD	4329-12-8	NBS75K.l	45305	94



Data File: /chem/a900.i/d062894.b/d8757.d
Date : 28-JUN-94 18:48
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 1.0

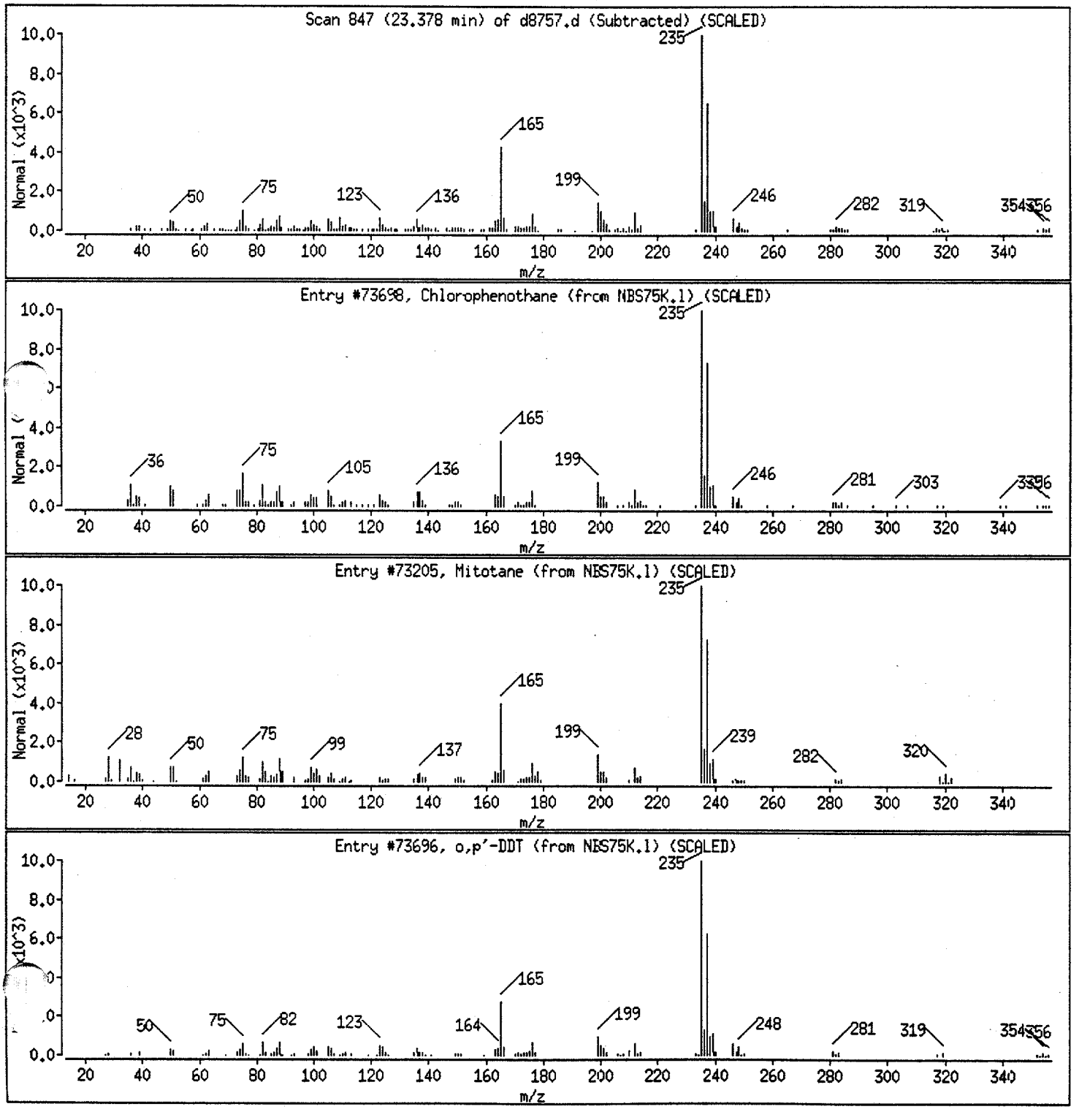
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
o,p'-DDT	789-02-6	NBS75K.1	49427	90
Chlorophenothane	50-29-3	NBS75K.1	73697	55
9H-Fluorene, 9-(dichloromethylene)-	835-17-6	NBS75K.1	33046	50



Data File: /chem/a900.i/d062894.b/d8757.d

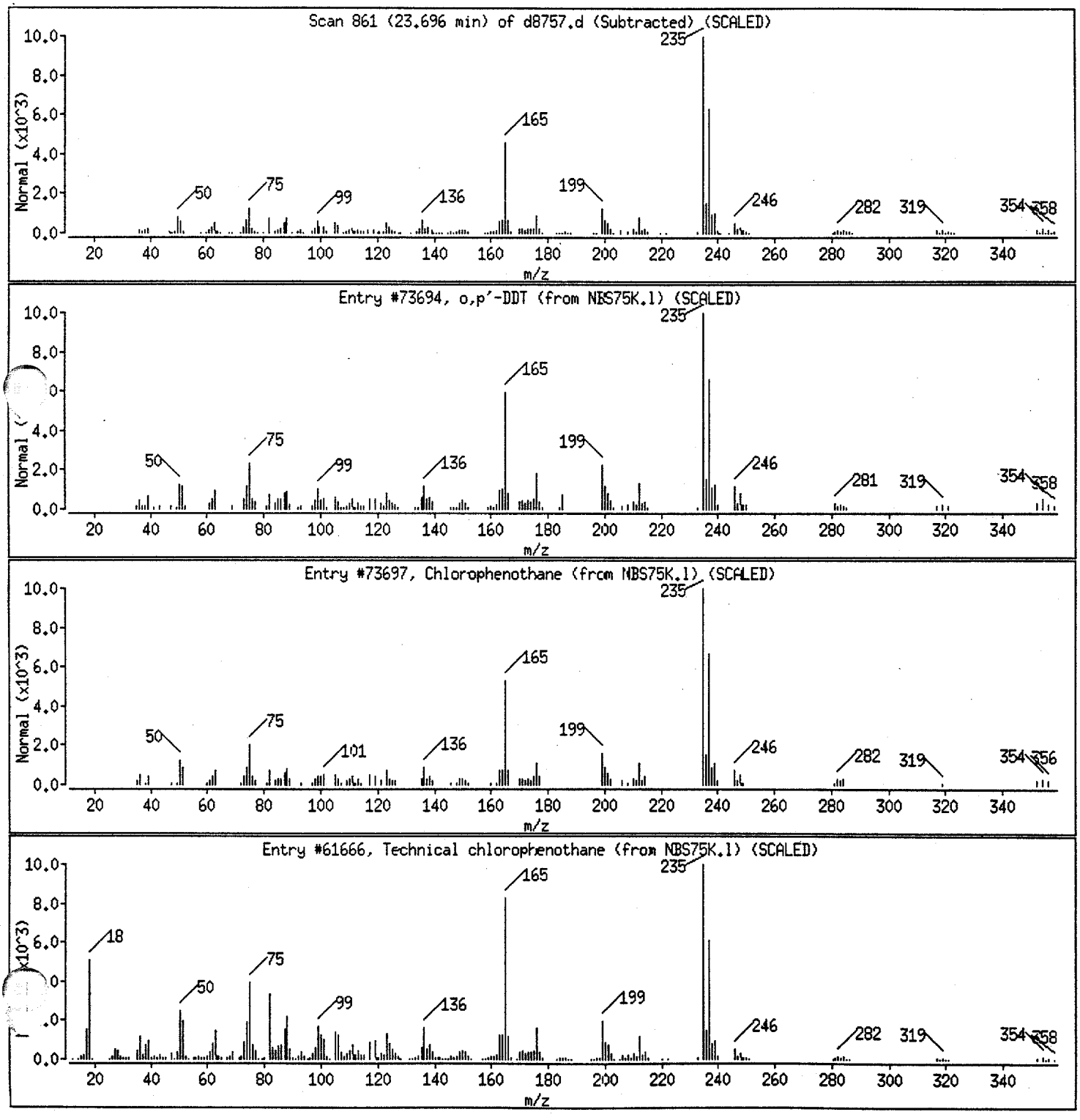
Date : 28-JUN-94 18:48
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Chlorophenothane	50-29-3	NBS75K.1	73698	96
Mitotane	53-19-0	NBS75K.1	73205	95
o,p'-DDT	789-02-6	NBS75K.1	73696	95



Data File: /chem/a900.i/d062894.b/d8757.d
Date : 28-JUN-94 18:48
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
o,p'-DDT	789-02-6	NBS75K.1	73694	96
Chlorophenothane	50-29-3	NBS75K.1	73697	95
Technical chlorophenothane	8017-34-3	NBS75K.1	61666	91



1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. C6618

Lab Name: ASC Contract: NEESA

I Code: — Case No.: — SAS No.: — SDG No.: Cwe17

Matrix: (soil/water) Soil Lab Sample ID: JM9435C

Sample wt/vol: 5.2 (g/mL) g Lab File ID: D8756

Level: (low/med) low Date Received: 062394

% Moisture: 57.4 decanted: (Y/N) N Date Extracted: 062794

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 062894

Injection Volume: 1.0 (uL) Dilution Factor: 5.8

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
108-95-2	Phenol	4500	U
111-44-4	bis(2-Chloroethyl)ether		
95-57-8	2-Chlorophenol		
541-73-1	1,3-Dichlorobenzene		
106-46-7	1,4-Dichlorobenzene		
95-50-1	1,2-Dichlorobenzene		
95-48-7	2-Methylphenol		
108-60-1	2,2'-oxybis(1-Chloropropane)		
106-44-5	4-Methylphenol		
621-64-7	N-Nitroso-di-n-propylamine		
67-72-1	Hexachloroethane		
98-95-3	Nitrobenzene		
78-59-1	Isophorone		
88-75-5	2-Nitrophenol		
105-67-9	2,4-Dimethylphenol		
111-91-1	bis(2-Chloroethoxy)methane		
120-83-2	2,4-Dichlorophenol		
120-82-1	1,2,4-Trichlorobenzene		
91-20-3	Naphthalene		
106-47-8	4-Chloroaniline	10800	
87-68-3	Hexachlorobutadiene		
59-50-7	4-Chloro-3-methylphenol		
91-57-6	2-Methylnaphthalene		
77-47-4	Hexachlorocyclopentadiene		
88-06-2	2,4,6-Trichlorophenol	↓	
95-95-4	2,4,5-Trichlorophenol	10800	
91-58-7	2-Chloronaphthalene	4500	
88-74-4	2-Nitroaniline	10800	
131-11-3	Dimethylphthalate	4500	
208-96-8	Acenaphthylene	↓	
606-20-2	2,6-Dinitrotoluene	10800	
99-09-2	3-Nitroaniline	4500	↓
83-32-9	Acenaphthene		

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. C668

Lab Name: ASC Contract: NEESA

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

Matrix: (soil/water) Soil Lab Sample ID: JM9435C

Sample wt/vol: 5.2 (g/mL) g Lab File ID: DB756

Level: (low/med) low Date Received: 062394

% Moisture: 57.4 decanted: (Y/N) N Date Extracted: 062794

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 062894

Injection Volume: 1.0 (uL) Dilution Factor: 5.8

GPC Cleanup: (Y/N) NO pH: 7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
51-28-5	2,4-Dinitrophenol	10800	U
100-02-7	4-Nitrophenol	↓	
132-64-9	Dibenzofuran	4500	
121-14-2	2,4-Dinitrotoluene		
84-66-2	Diethylphthalate		
7005-72-3	4-Chlorophenyl-phenylether		
86-73-7	Fluorene	↓	
100-01-6	4-Nitroaniline	10800	
534-52-1	4,6-Dinitro-2-methylphenol	↓	
86-30-6	N-Nitrosodiphenylamine (1)	4500	
101-55-3	4-Bromophenyl-phenylether		
118-74-1	Hexachlorobenzene	↓	
87-86-5	Pentachlorophenol	10800	
85-01-8	Phenanthrene	4500	
120-12-7	Anthracene		
86-74-8	Carbazole		
84-74-2	Di-n-butylphthalate		
206-44-0	Fluoranthene		
129-00-0	Pyrene		
85-68-7	Butylbenzylphthalate		
91-94-1	3,3'-Dichlorobenzidine		
56-55-3	Benzo(a)anthracene		
218-01-9	Chrysene		
117-81-7	bis(2-Ethylhexyl)phthalate		
117-84-0	Di-n-octylphthalate		
205-99-2	Benzo(b)fluoranthene		
207-08-9	Benzo(k)fluoranthene		
50-32-8	Benzo(a)pyrene		
193-39-5	Indeno(1,2,3-cd)pyrene		
53-70-3	Dibenz(a,h)anthracene		
191-24-2	Benzo(g,h,i)perylene	↓	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO. 0310

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ASC Contract: NESA C618

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

Matrix: (soil/water) Soil Lab Sample ID: JM943C

Sample wt/vol: 15.2 (g/mL) g Lab File ID: D875C

Level: (low/med) low Date Received: 062394

% Moisture: 57.4 decanted: (Y/N) N Date Extracted: 062794

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 062894

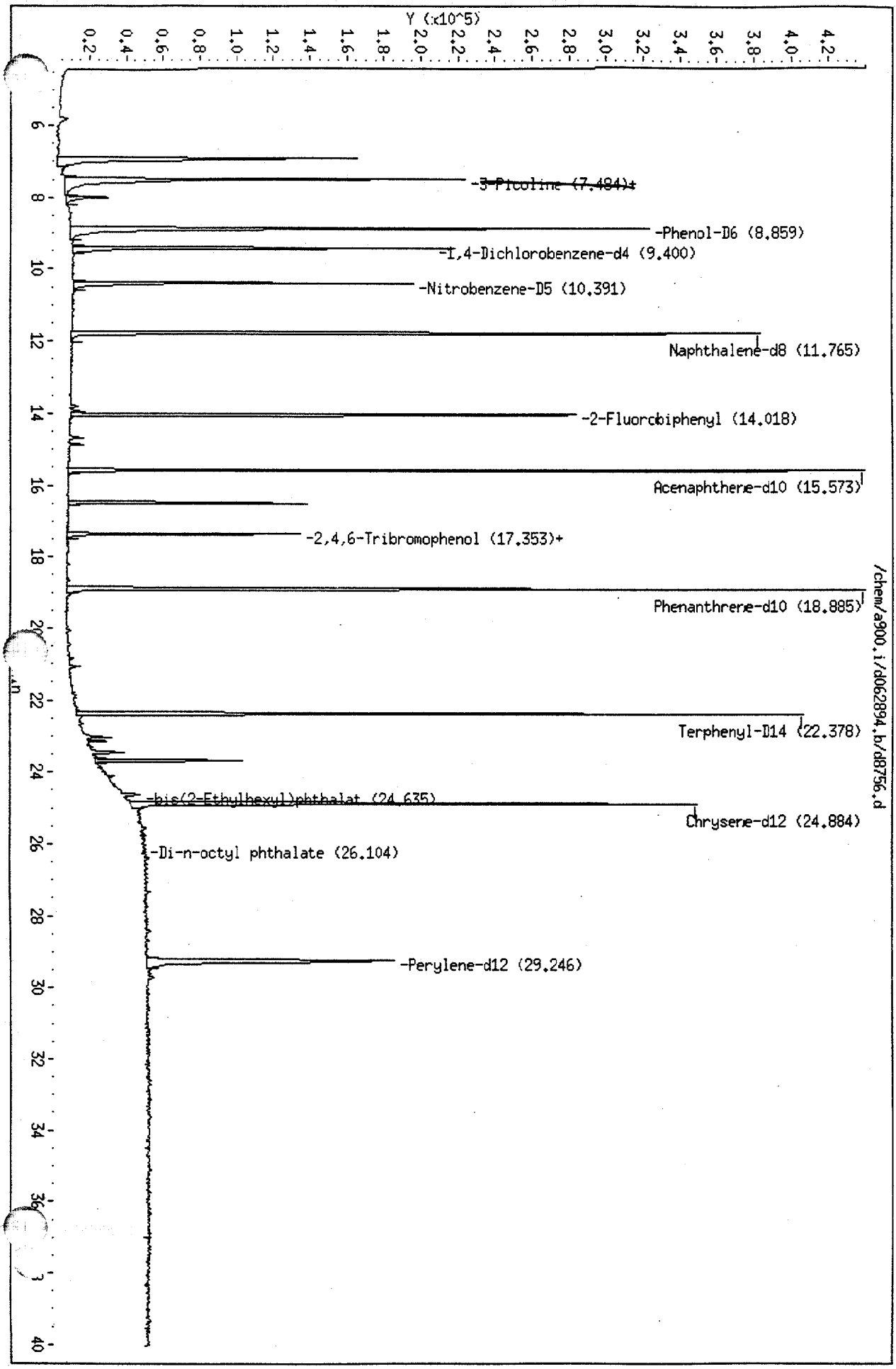
Injection Volume: 1.0 (uL) Dilution Factor: 5.8

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

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown Pentenol Isomer	16.48	4700	J
2.	8017-34-3	Technical Chlorophenothane (DDT)		3500	J
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

Data File: /chem/a900.i/d062894.b/d8756.d
Date : 28-JUN-94 17:59
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Volume Injected (uL) : 1.0



C6618

Column diameter : 0.25

DL 6-29-94

Data File: /chem/a900.i/d062894.b/d8756.d
Report Date: 29-Jun-1994 08:04

Analytical Services Corp.

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/a900.i/d062894.b/d8756.d
Lab. Id. : Quant Type: ISTD
Inj Date : 28-JUN-94 17:59 Autotune Date: {
Operator : Tom Inst ID: a900.i
Smp Info : 15226N-C6618
Misc Info : JM9435C,N2C40851A,S:M1,5.22,1:1, BTL#
Comment :
Method : /chem/a900.i/d062894.b/bna8270d.m
Meth Date : 29-Jun-1994 08:02 darren
Cal Date : 28-JUN-94 14:35 Cal File: d8753.d
Als bottle: 0
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)
~~3-Picoline~~	93.00	7.484	(0.796)	5041	1.00	~~1.00 (TaAQ)~~ RT
$ 2-Fluorophenol	112.00	7.484	(0.796)	249666	59.0	59.0
$ 10 Phenol-D6	99.00	8.859	(0.942)	365008	78.4	78.4
* 17 1,4-Dichlorobenzene-d4	152.00	9.400	(1.000)	118991 OK	40.0	
$ 27 Nitrobenzene-D5	82.00	10.391	(0.883)	157752	35.9	35.9
* 37 Naphthalene-d8	136.00	11.765	(1.000)	447335 OK	40.0	
$ 51 2-Fluorobiphenyl	172.00	14.018	(0.900)	262260	45.3	45.3
* 58 Acenaphthene-d10	164.00	15.573	(1.000)	265443 OK	40.0	
$ 74 2,4,6-Tribromophenol	330.00	17.353	(1.114)	36503	33.2	33.2
~~75 4-Bromophenyl phenyl ether~~	248.00	17.353	(0.919)	2314	1.08	~~1.00 (TaQ)~~ RT
* 81 Phenanthrene-d10	188.00	18.885	(1.000)	415202 OK	40.0	
$ 90 Terphenyl-D14	244.00	22.378	(0.899)	356503	47.2	47.2
~~95 bis(2-Ethylhexyl)phthalate~~	149.00	24.635	(0.990)	5245	0.663	~~0.663 (a)~~ < 1
* 99 Chrysene-d12	240.00	24.884	(1.000)	332801 OK	40.0	
~~101 Di-n-octyl phthalate~~	149.00	26.104	(0.893)	1102	0.100	~~0.100 (a)~~ < 1
* 105 Perylene-d12	264.00	29.246	(1.000)	209143 OK	40.0	

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
- Qualifier signal failed the ratio test.

Flag Legend

T - Target compound detected outside RT window.
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.

Data File: /chem/a900.i/d062894.b/d8756.d

Date : 28-JUN-94 17:59

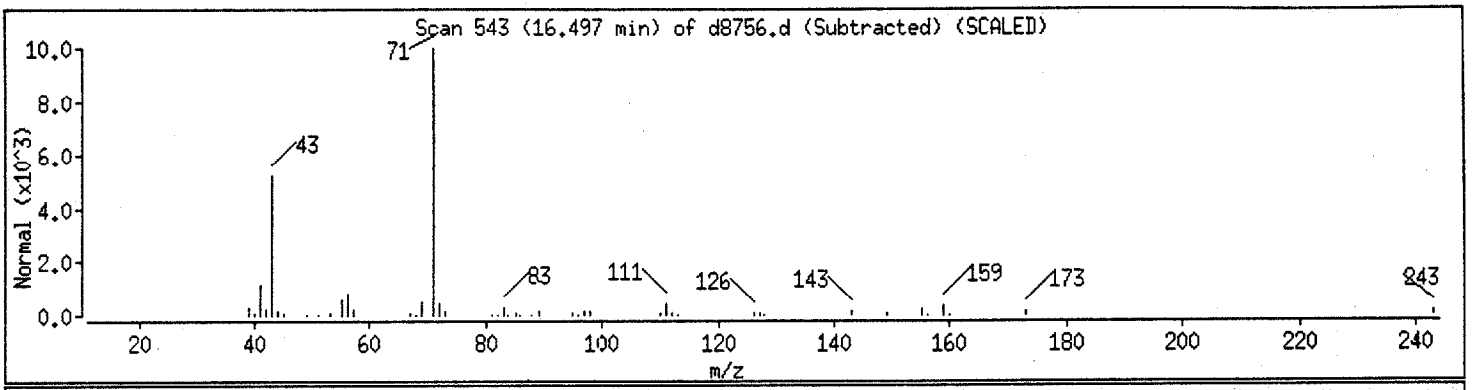
Instrument : a900.i

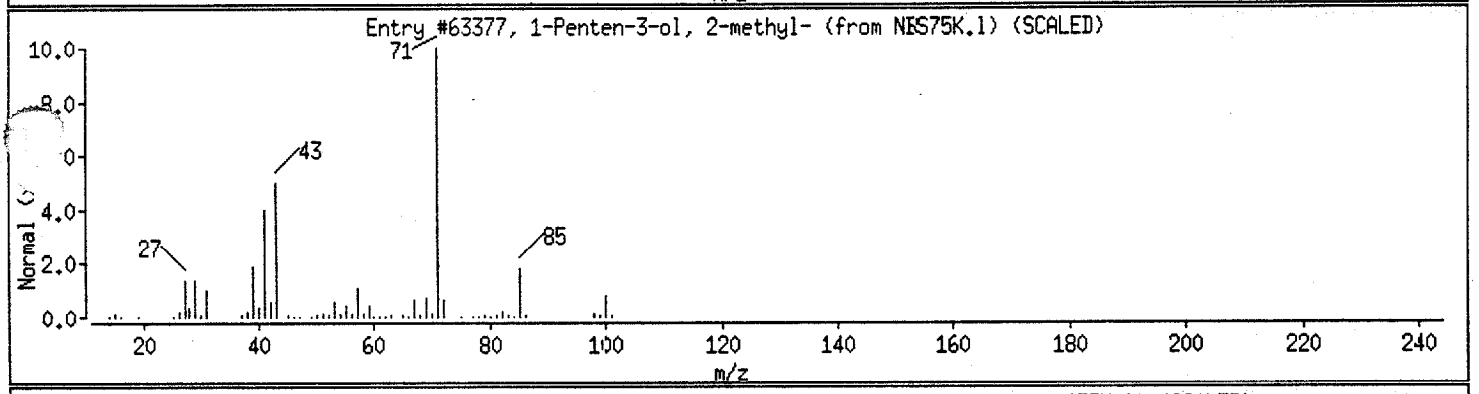
Sample ID :

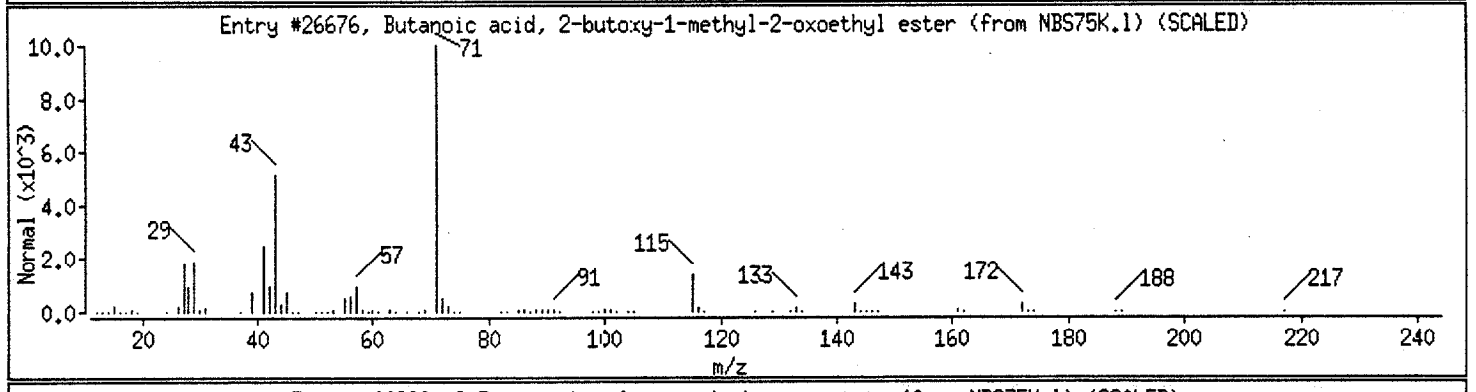
Column phase : J&W DB-5 Column diameter : 0.25

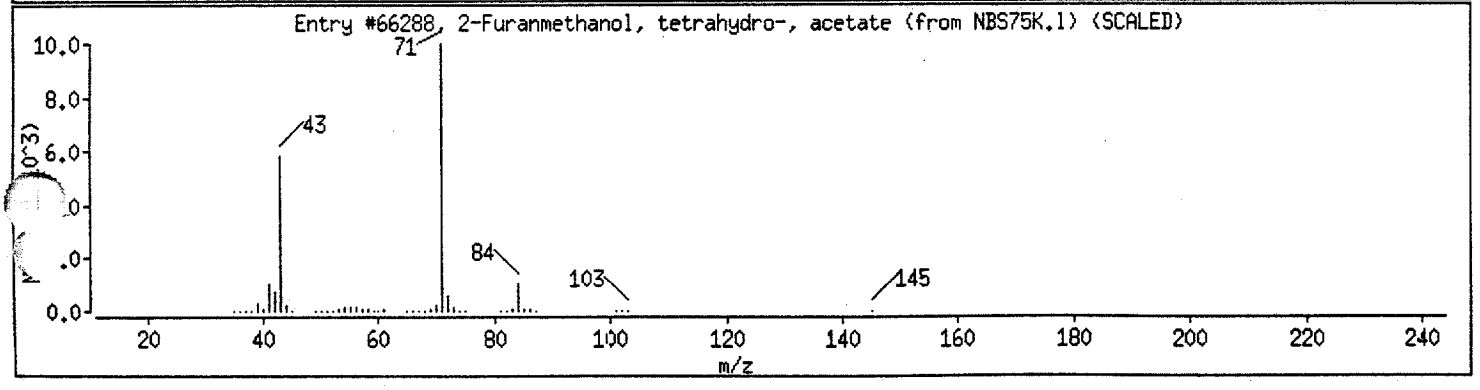
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
1-Penten-3-ol, 2-methyl-	2088-07-5	NBS75K.1	63377	39
Butanoic acid, 2-butoxy-1-methyl-2-oxoet	7492-70-8	NBS75K.1	26676	38
2-Furanmethanol, tetrahydro-, acetate	637-64-9	NBS75K.1	66288	38



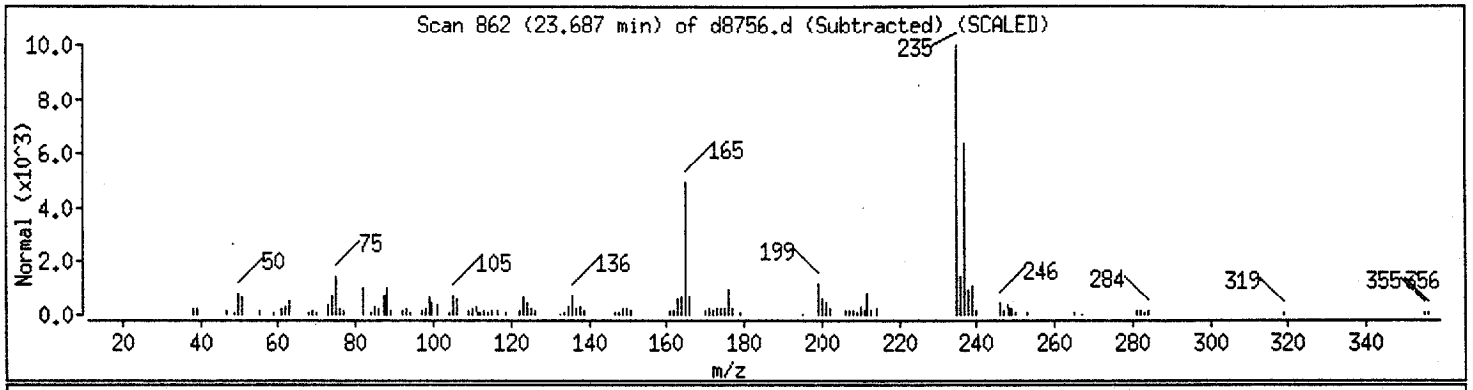


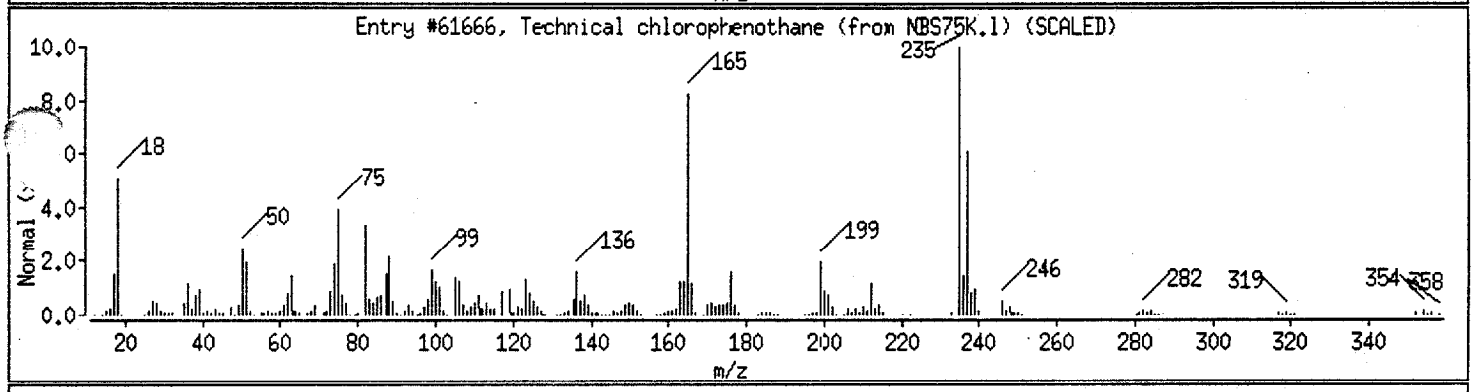


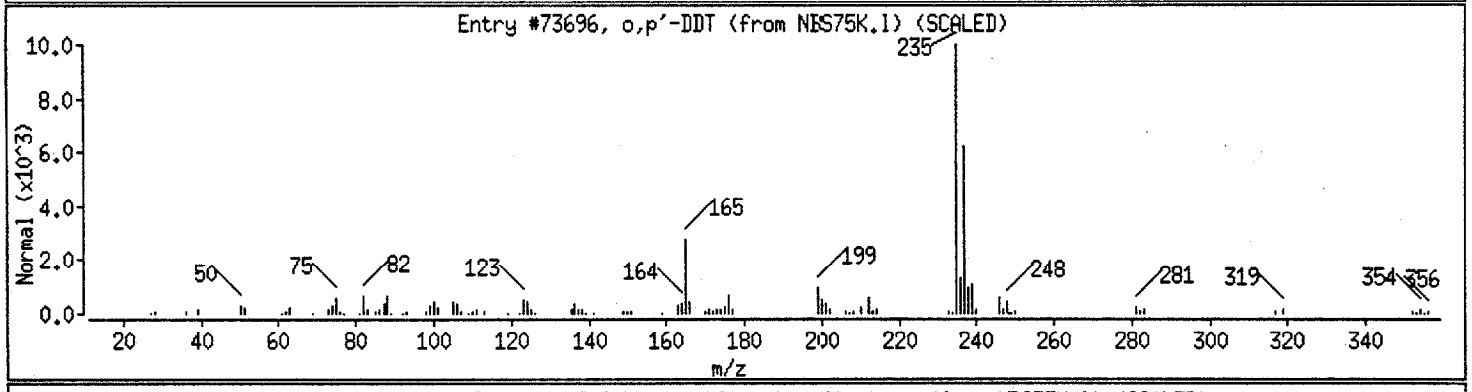


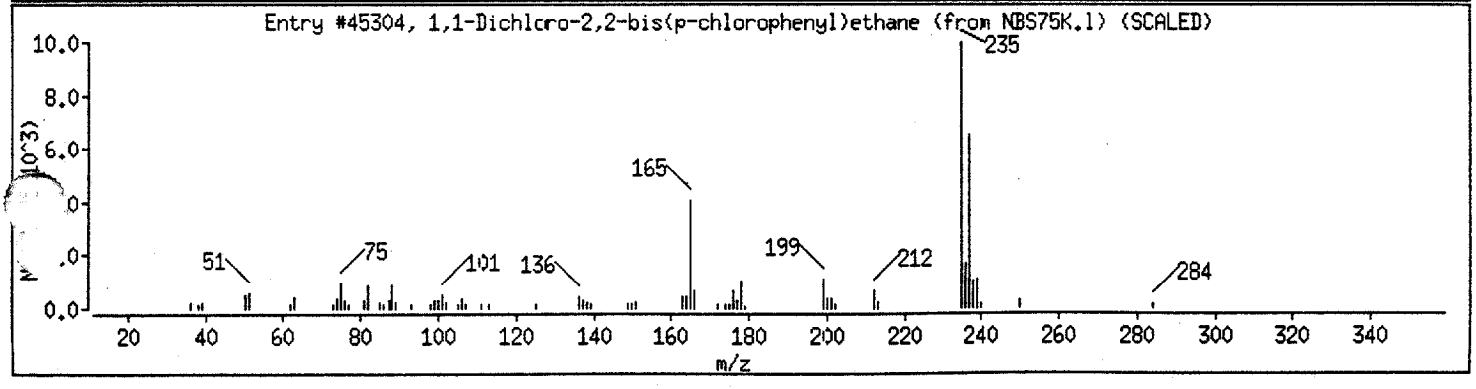
Data File: /chem/a900.i/d062894.b/d8756.d
Date : 28-JUN-94 17:59
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Technical chlorophenothane	8017-34-3	NBS75K.1	61666	91
o,p'-DDT	789-02-6	NBS75K.1	73696	91
1,1-Dichloro-2,2-bis(p-chlorophenyl)etha	72-54-8	NBS75K.1	45304	91









1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C6619

Lab Name: ASC Contract: NC75A

Code: — Case No.: — SAS No.: — SDG No.: ____

Matrix: (soil/water) Soil Lab Sample ID: JM9436C

Sample wt/vol: 30.1 (g/mL) g Lab File ID: D8758

Level: (low/med) low Date Received: 062394

% Moisture: 35.7 decanted: (Y/N) N Date Extracted: 062794

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 062894

Injection Volume: 1.0 (uL) Dilution Factor: 1000

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
108-95-2	Phenol	510000	U
111-44-4	bis(2-Chloroethyl)ether		
95-57-8	2-Chlorophenol		
541-73-1	1,3-Dichlorobenzene		
106-46-7	1,4-Dichlorobenzene		
95-50-1	1,2-Dichlorobenzene		
95-48-7	2-Methylphenol		
108-60-1	2,2'-oxybis(1-Chloropropane)		
106-44-5	4-Methylphenol		
621-64-7	N-Nitroso-di-n-propylamine		
67-72-1	Hexachloroethane		
98-95-3	Nitrobenzene		
78-59-1	Isophorone		
88-75-5	2-Nitrophenol		
105-67-9	2,4-Dimethylphenol		
111-91-1	bis(2-Chloroethoxy)methane		
120-83-2	2,4-Dichlorophenol		
120-82-1	1,2,4-Trichlorobenzene		
91-20-3	Naphthalene		
106-47-8	4-Chloroaniline		
87-68-3	Hexachlorobutadiene		
59-50-7	4-Chloro-3-methylphenol		
91-57-6	2-Methylnaphthalene		
77-47-4	Hexachlorocyclopentadiene		
88-06-2	2,4,6-Trichlorophenol	1200000	
95-95-4	2,4,5-Trichlorophenol	510000	
91-58-7	2-Chloronaphthalene	1200000	
88-74-4	2-Nitroaniline	510000	
131-11-3	Dimethylphthalate		
208-96-8	Acenaphthylene		
606-20-2	2,6-Dinitrotoluene	1200000	
99-09-2	3-Nitroaniline	510000	
83-32-9	Acenaphthene		

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 0317 C669

Name: ASC Contract: NEESA

Code: — Case No.: — SAS No.: — SDG No.: ____

Matrix: (soil/water) Soil Lab Sample ID: JM9436C

Sample wt/vol: 30.1 (g/mL) g Lab File ID: D8758

Level: (low/med) low Date Received: 06.3394

% Moisture: 35.7 decanted: (Y/N) N Date Extracted: 06.794

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 062894

Injection Volume: 1.0 (uL) Dilution Factor: 1000

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	1200000	U
100-02-7	4-Nitrophenol	510000	
132-64-9	Dibenzofuran		
121-14-2	2,4-Dinitrotoluene		
84-66-2	Diethylphthalate		
7005-72-3	4-Chlorophenyl-phenylether		
86-73-7	Fluorene	1200000	
100-01-6	4-Nitroaniline	510000	
534-52-1	4,6-Dinitro-2-methylphenol		
86-30-6	N-Nitrosodiphenylamine (1)		
101-55-3	4-Bromophenyl-phenylether		
118-74-1	Hexachlorobenzene	1200000	
87-86-5	Pentachlorophenol	510000	
85-01-8	Phenanthrene		
120-12-7	Anthracene		
86-74-8	Carbazole		
84-74-2	Di-n-butylphthalate		
206-44-0	Fluoranthene		
129-00-0	Pyrene		
85-68-7	Butylbenzylphthalate		
91-94-1	3,3'-Dichlorobenzidine		
56-55-3	Benzo(a)anthracene		
218-01-9	Chrysene		
117-81-7	bis(2-Ethylhexyl)phthalate		
117-84-0	Di-n-octylphthalate		
205-99-2	Benzo(b)fluoranthene		
207-08-9	Benzo(k)fluoranthene		
50-32-8	Benzo(a)pyrene		
193-39-5	Indeno(1,2,3-cd)pyrene		
53-70-3	Dibenz(a,h)anthracene		
191-24-2	Benzo(g,h,i)perylene		

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: C6619

Lab Name: ASC Contract: NESA

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

Matrix: (soil/water) Soil Lab Sample ID: JM943C

Sample wt/vol: 30.1 (g/mL) g Lab File ID: D8758

Level: (low/med) low Date Received: 062394

% Moisture: ~~35.5~~ 35.7 decanted: (Y/N) N Date Extracted: 062794

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 062894

Injection Volume: 1.0 (uL) Dilution Factor: 1000

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

Number TICs found: 20 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

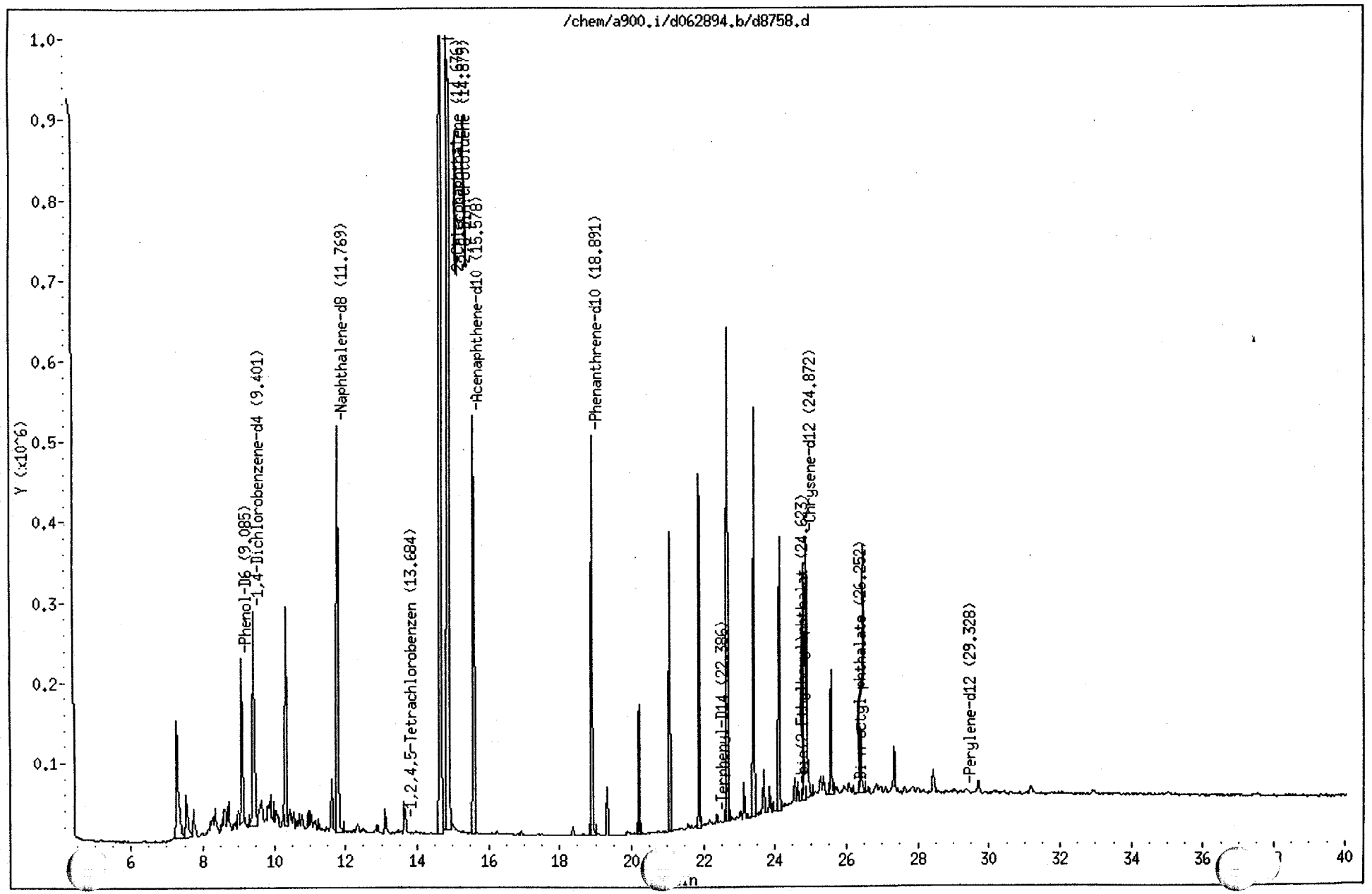
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	7.26	771000	J
2.		Unknown	7.53	284000	
3.		Unknown	8.22	270000	
4.	124-18-5	Decane	9.09	687000	
5.		Unknown hydrocarbon	9.65	452000	
6.	2847-72-5	Decane, 4-Methyl	9.85	256000	
7.		Unknown hydrocarbon	9.90	225000	
8.		Unknown hydrocarbon	10.28	~~716~~ 257000	
9.	1120-21-4	Undecane	10.33	716000	
10.	634-93-5	Benzenamine 2,4,6-trichlor	14.68	409000	
11.		Unknown	14.86	442000	
12.	112-95-8	Eicosane	20.22	431000	
13.	629-94-7	Heneicosane	21.06	873000	
14.	629-97-0	Docosane	21.87	1190000	
15.	638-67-5	Tricosane	22.66	1480000	
16.	646-31-1	Tetracosane	23.40	1260000	
17.	629-92-5	Nonadecane	24.13	997000	
18.	629-78-7	Heptadecane	24.83	917000	
19.	593-45-3	Octadecane	25.57	528000	
20.	7225-64-1	Heptadecane, 9-octyl	26.29	359000	
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

0319

Data File: /chem/a900.i/d062894.b/d8758.d
Date : 28-JUN-94 19:38
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Volume Injected (uL) : 1.0

C6619

Column diameter : 0.25



DL 6-29-94 0320

Analytical Services Corp.

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/a900.i/d062894.b/d8758.d
Lab. Id. : Quant Type: ISTD
Inj Date : 28-JUN-94 19:38 Autotune Date: {
Operator : Tom Inst ID: a900.i
Smp Info : 15226N-C6619
Misc Info : JM9436C,N2C40851,S:M1,30.2,10:100, BTL#
Comment :
Method : /chem/a900.i/d062894.b/bna8270d.m
Meth Date : 29-Jun-1994 08:02 darren
Cal Date : 28-JUN-94 14:35 Cal File: d8753.d
Als bottle: 0
Dil Factor: 1.000 Target Version: Target 3.00
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: WATER

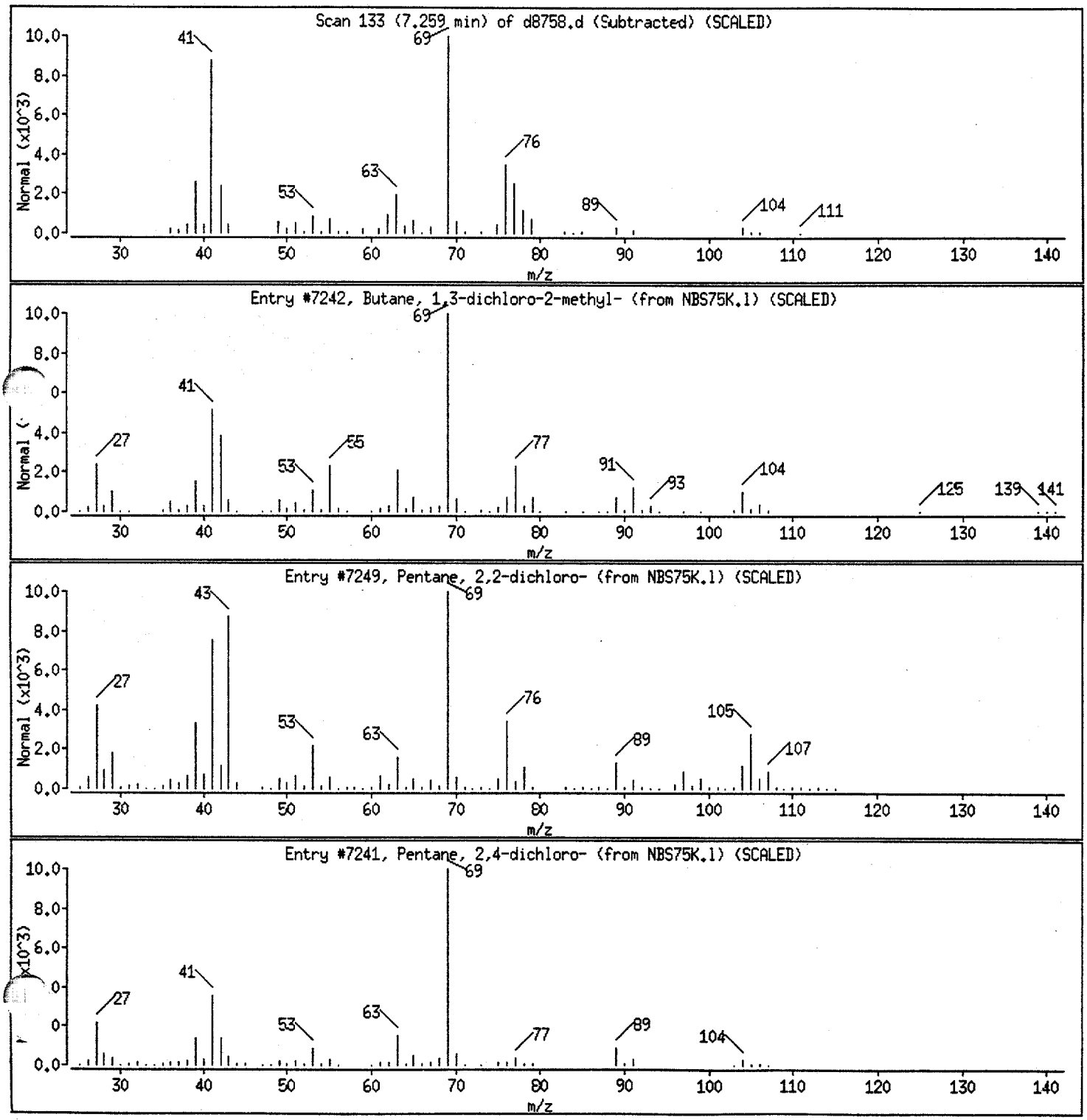
Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
Phenol-D6	99.00	9.085	(0.966)	5348	1.03	1.03(TaQR)
* 1,4-Dichlorobenzene-d4	152.00	9.401	(1.000)	132861 OK	40.0	
* 37 Naphthalene-d8	136.00	11.769	(1.000)	516136 OK	40.0	
~~47 1,2,4,5-Tetrachlorobenzene~~	216.00	13.684	(0.878)	2254	0.610	~~0.610(aA)~~ CI
~~52 2-Chloronaphthalene~~	162.00	14.676	(0.942)	41657	5.69	~~5.69(Ta)~~ RT
~~55 2,6-Dinitrotoluene~~	165.00	14.879	(0.955)	3726	1.40	~~1.40(aQ)~~ RT
* 58 Acenaphthene-d10	164.00	15.578	(1.000)	301449 OK	40.0	
* 81 Phenanthrene-d10	188.00	18.891	(1.000)	449882 OK	40.0	
$ 90 Terphenyl-D14	244.00	22.386	(0.900)	1335	0.167	0.167(aR)
~~95 bis(2-Ethylhexyl)phthalate~~	149.00	24.623	(0.990)	5442	0.649	~~0.649(a)~~ CI
* 99 Chrysene-d12	240.00	24.872	(1.000)	352846 OK	40.0	
~~101 Di-n-octyl phthalate~~	149.00	26.252	(0.895)	107	0.305	~~0.305(a)~~ CI
* 105 Perylene-d12	264.00	29.328	(1.000)	6652 LOW	40.0	

QC Flag Legend

T - Target compound detected outside RT window.
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.

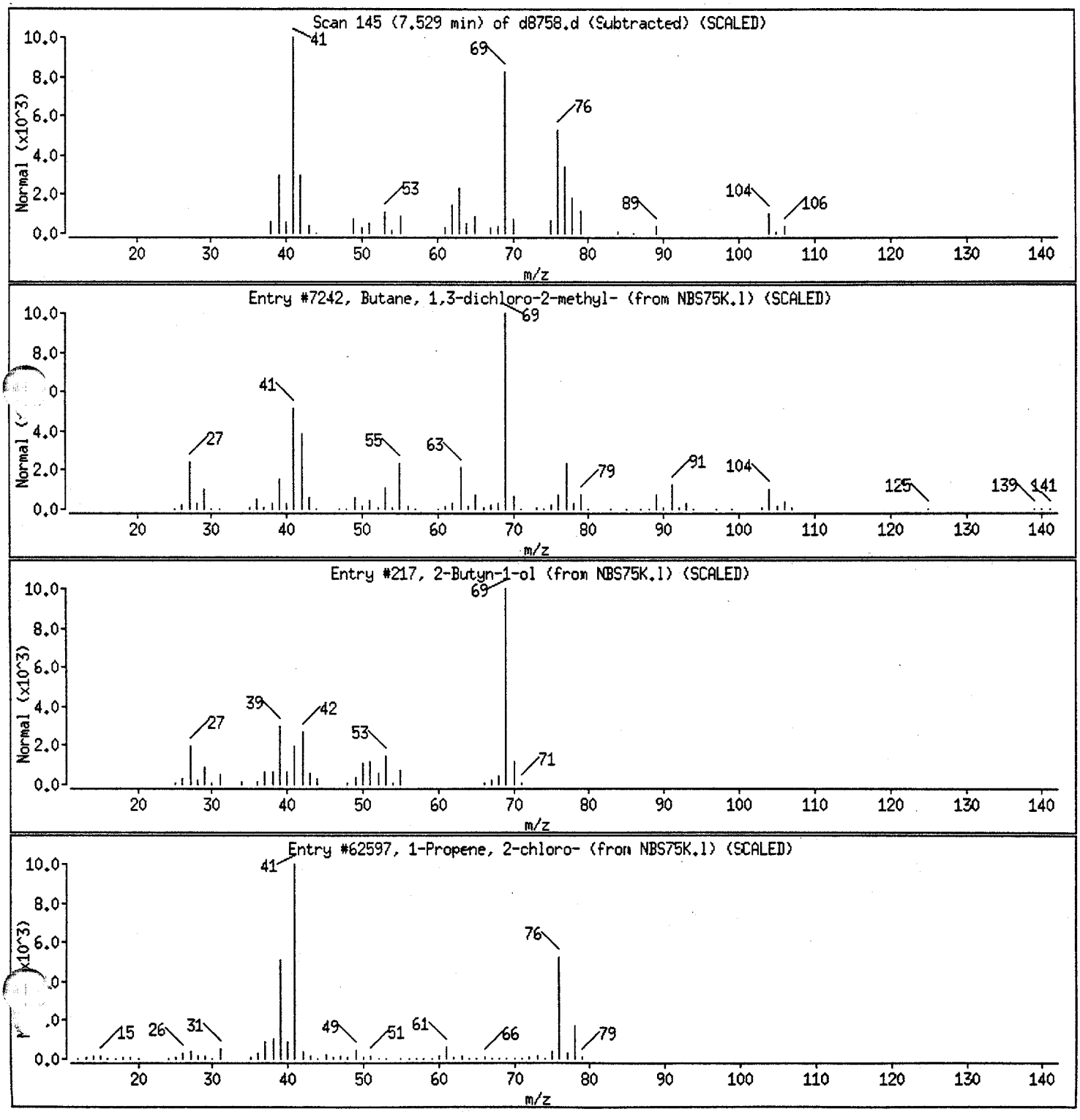
Data File: /chem/a900.i/d062894.b/d8758.d
Date : 28-JUN-94 19:38
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Butane, 1,3-dichloro-2-methyl-	23010-07-3	NBS75K.l	7242	40
Pentane, 2,2-dichloro-	34887-14-4	NBS75K.l	7249	25
Pentane, 2,4-dichloro-	625-67-2	NBS75K.l	7241	23



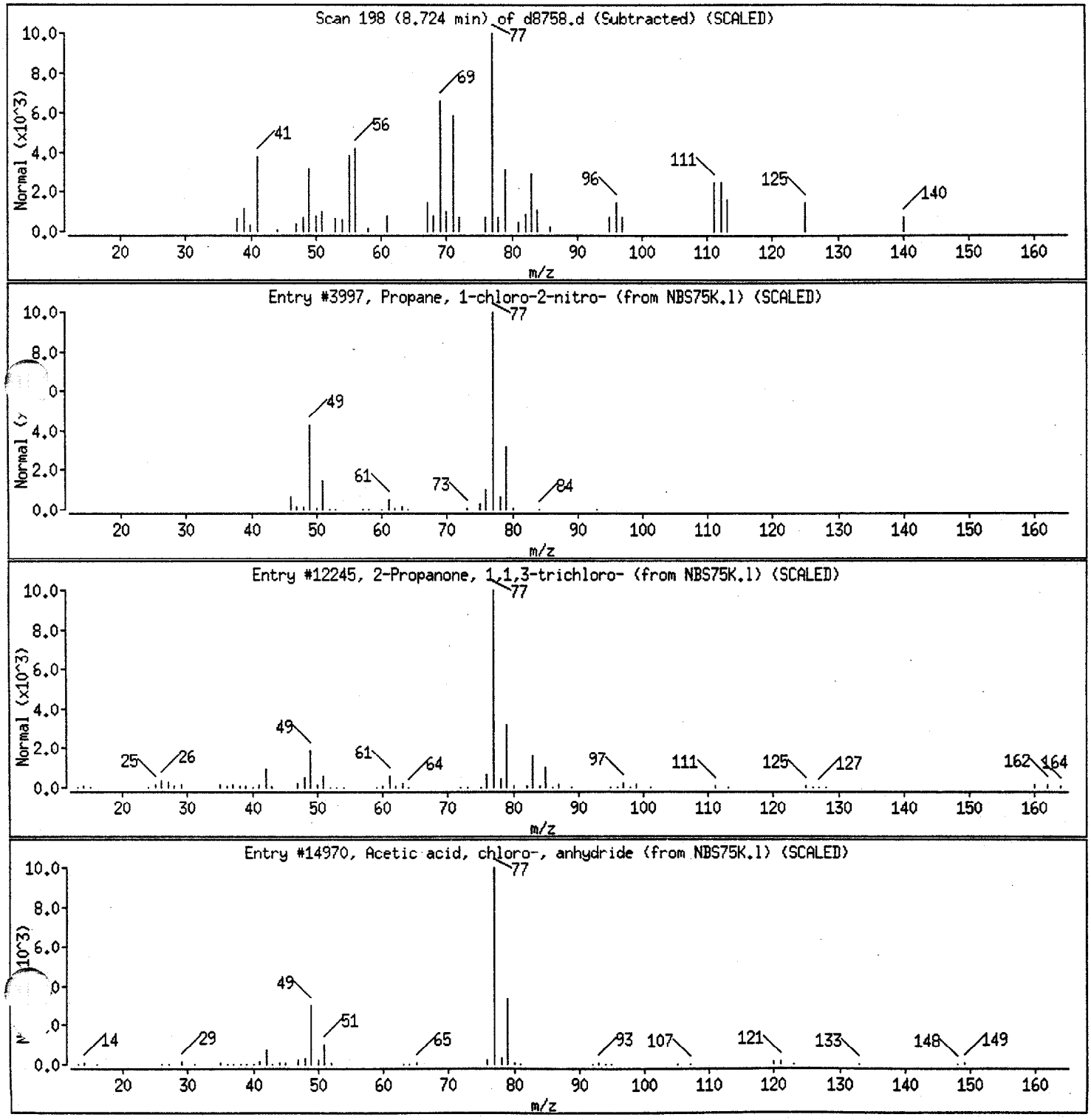
Data File: /chem/a900.i/d062894.b/d8758.d
Date : 28-JUN-94 19:38
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Butane, 1,3-dichloro-2-methyl-	23010-07-3	NBS75K.l	7242	50
2-Butyn-1-ol	764-01-2	NBS75K.l	217	12
1-Propene, 2-chloro-	557-98-2	NBS75K.l	62597	11



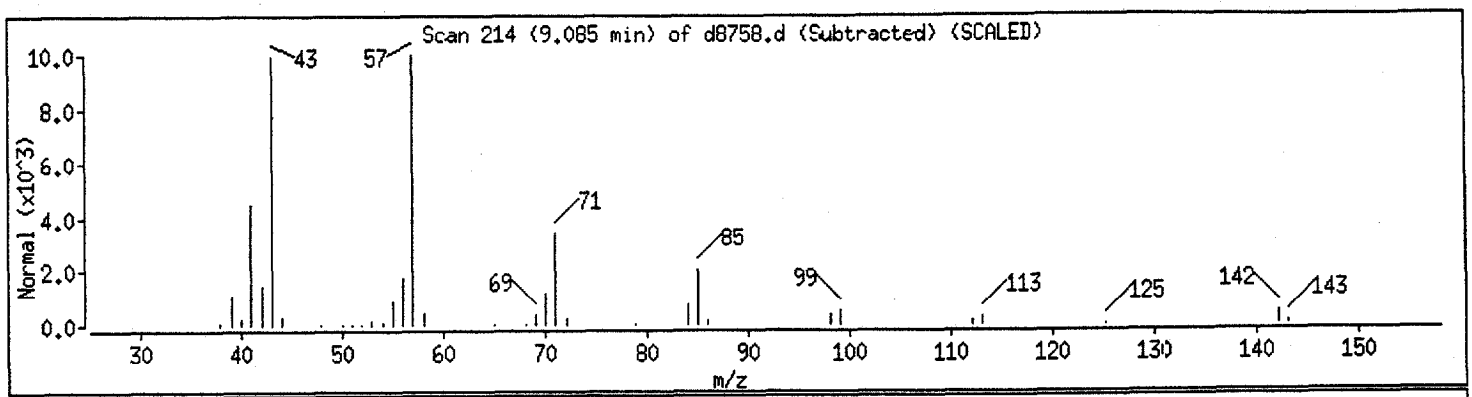
Data File: /chem/a900.i/d062894.b/d8758.d
Date : 28-JUN-94 19:38
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

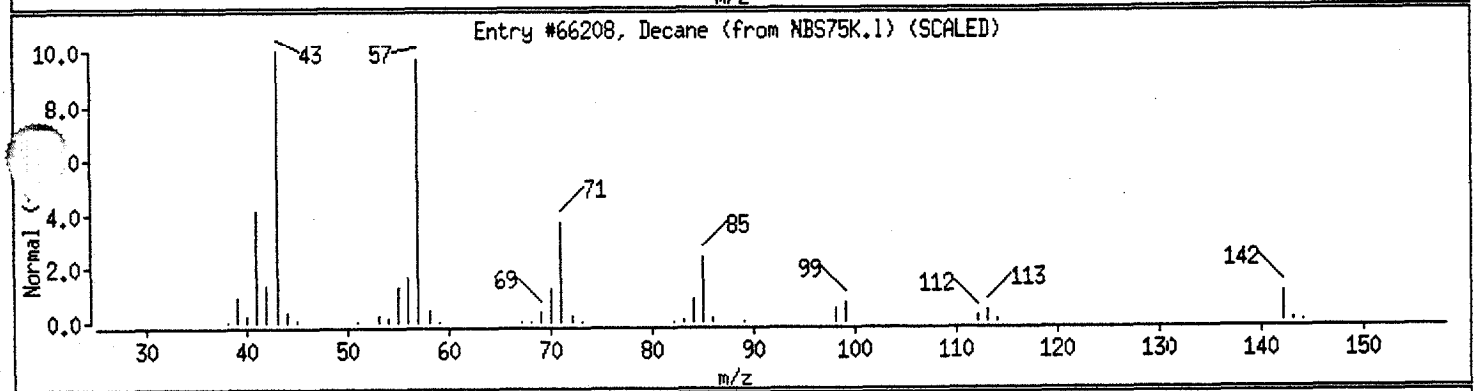
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Propane, 1-chloro-2-nitro-	2425-66-3	NBS75K.1	3997	38
2-Propanone, 1,1,3-trichloro-	921-03-9	NBS75K.1	12245	32
Acetic acid, chloro-, anhydride	541-88-8	NBS75K.1	14970	32

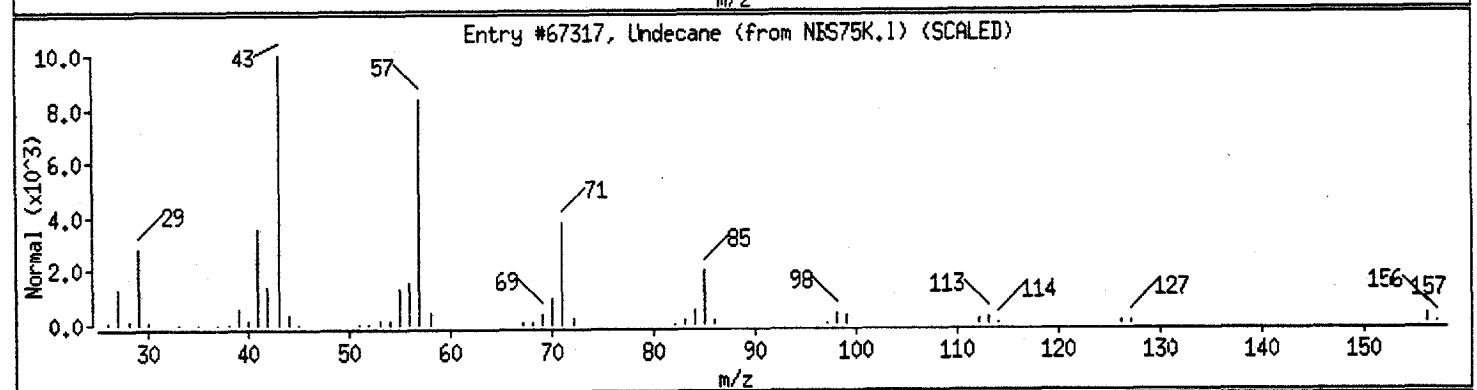


Data File: /chem/a900.i/d062894.b/d8758.d
Date : 28-JUN-94 19:38
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Decane	124-18-5	NBS75K.l	66208	96
Undecane	1120-21-4	NBS75K.l	67317	90

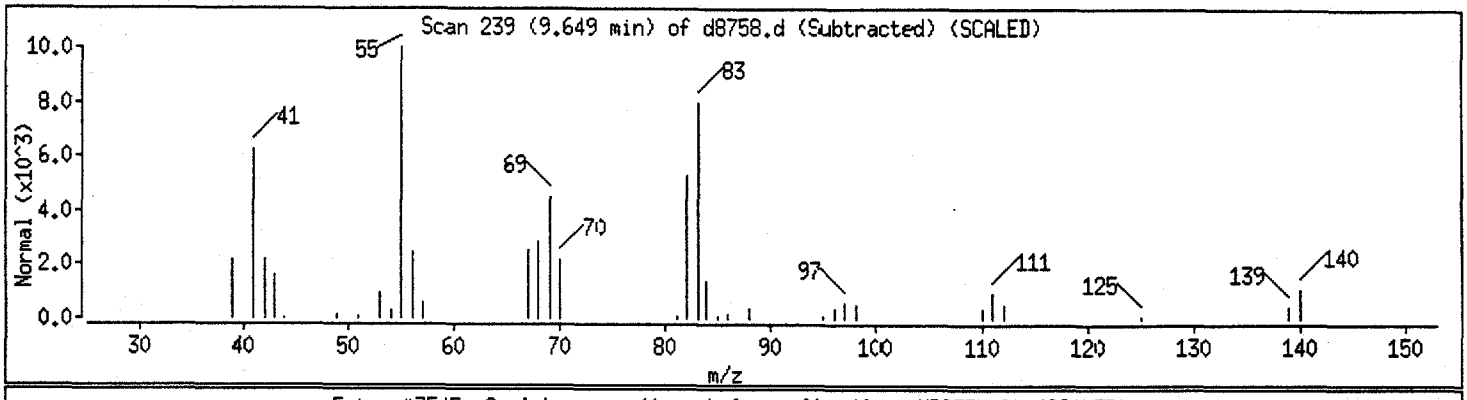


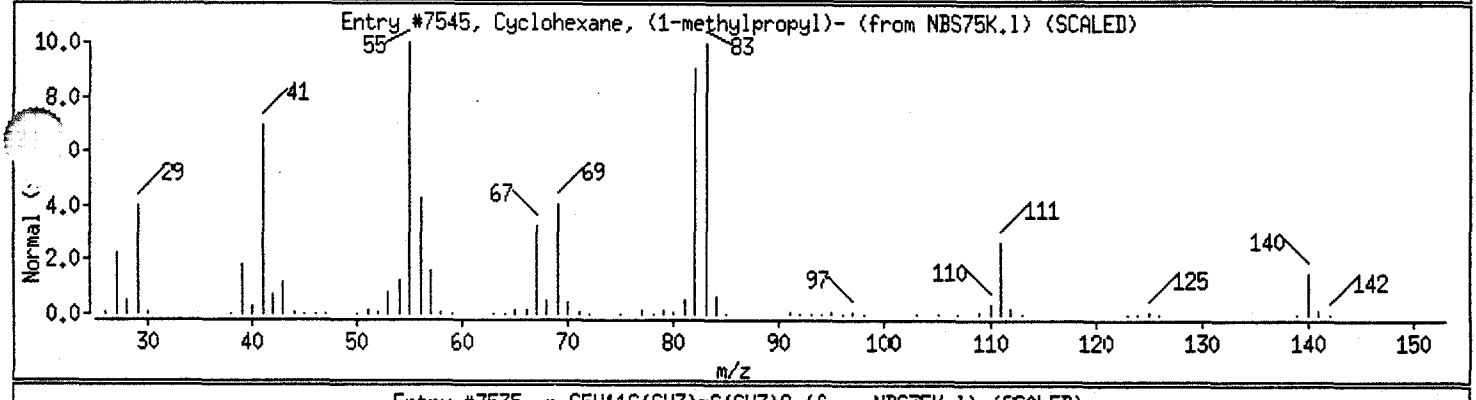


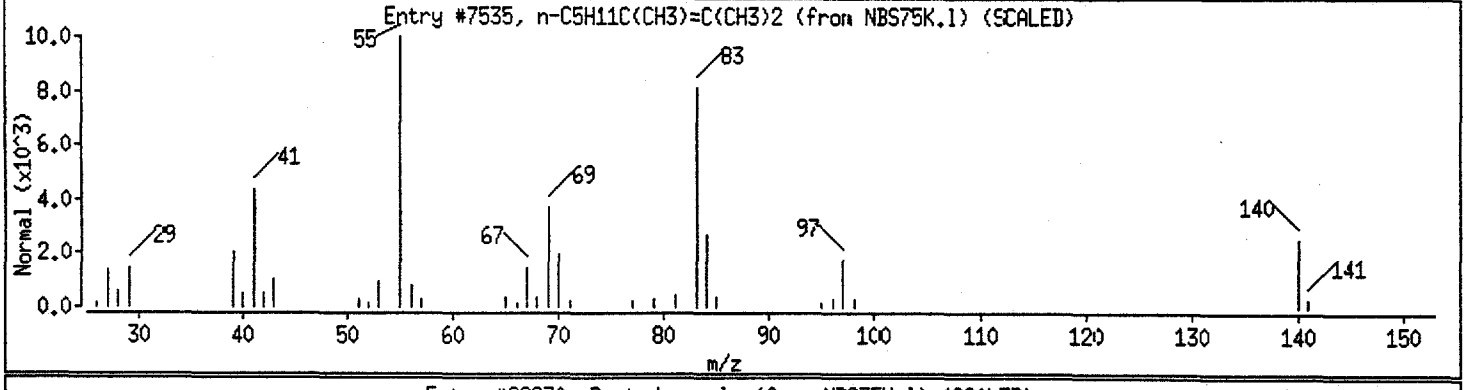


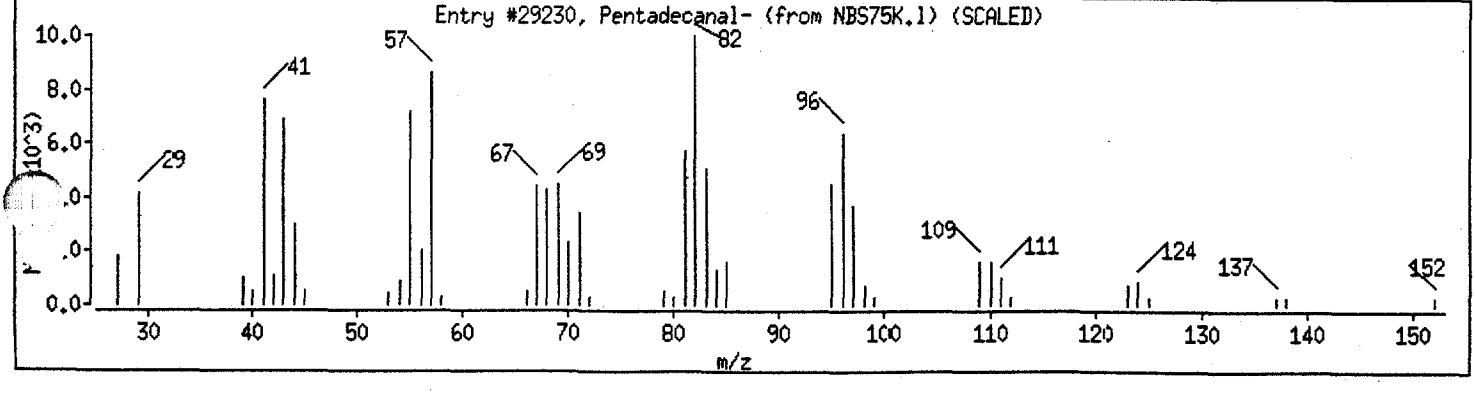
Data File: /chem/a900.i/d062894.b/d8758.d
Date : 28-JUN-94 19:38
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Cyclohexane, (1-methylpropyl)-	7058-01-7	NBS75K.1	7545	58
n-C5H11C(CH3)=C(CH3)2	19781-18-1	NBS75K.1	7535	43
Pentadecanal-	2765-11-9	NBS75K.1	29230	43



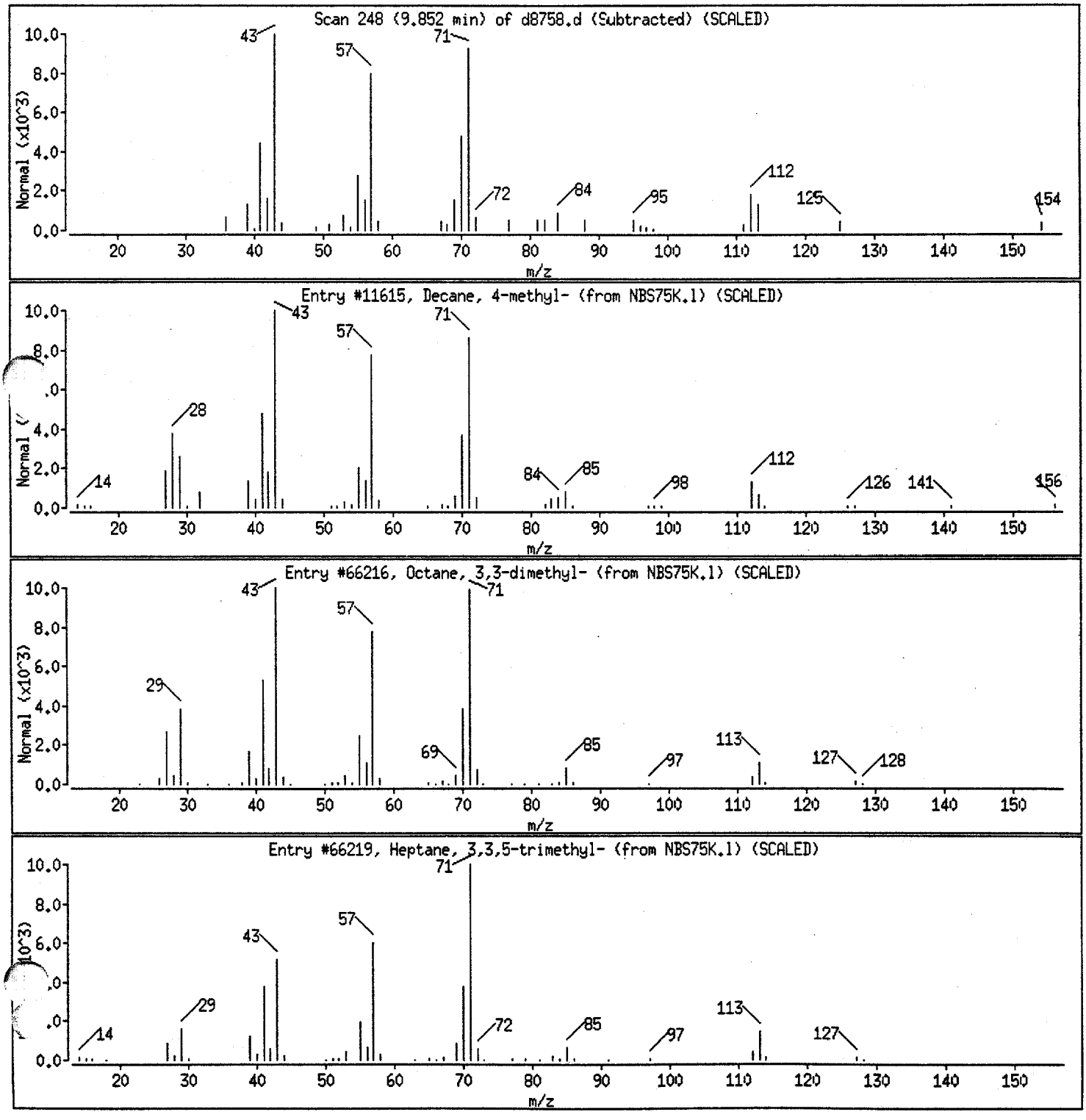






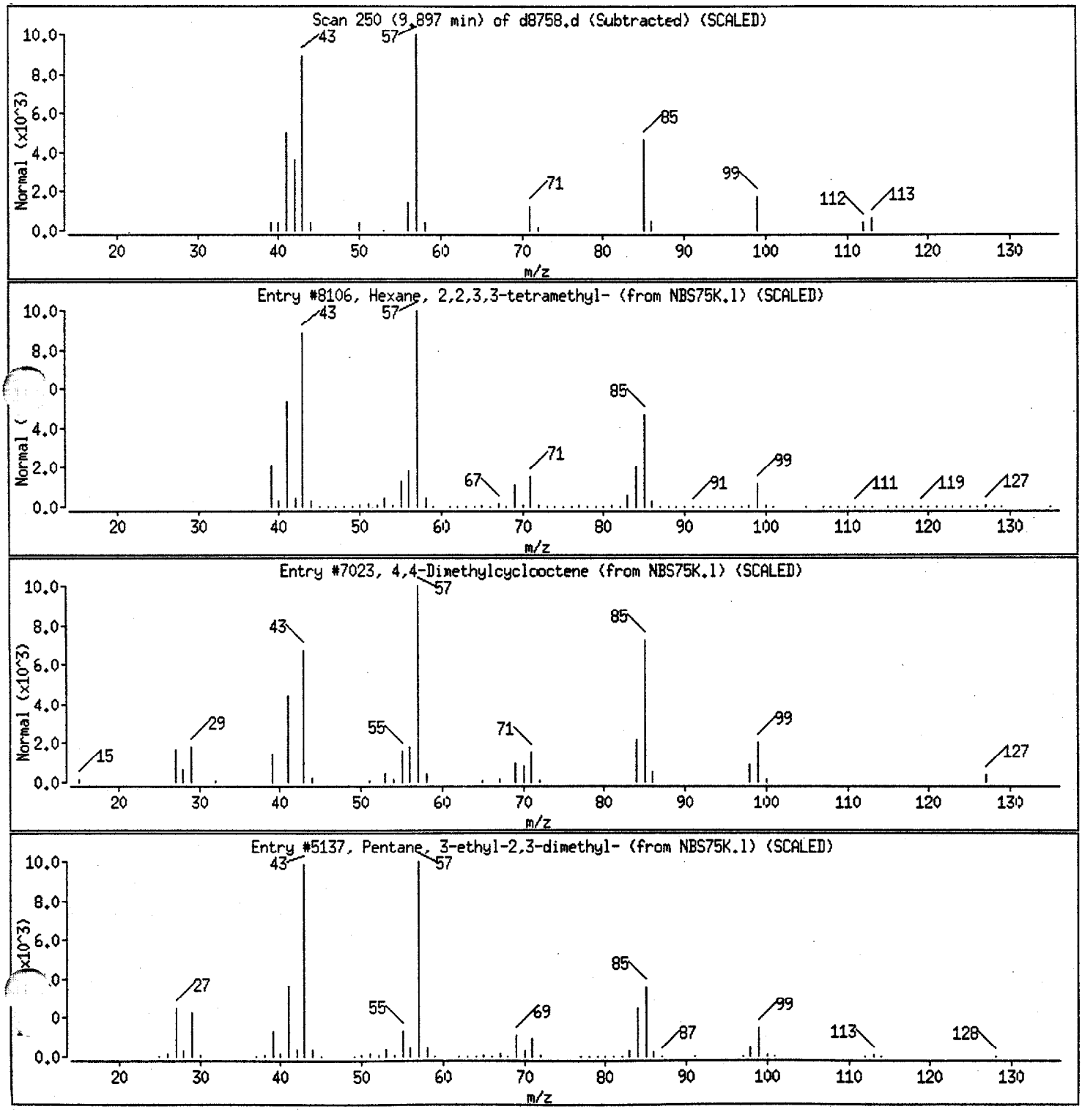
Data File: /chem/a900.i/d062894.b/d8758.d
Date : 28-JUN-94 19:38
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Decane, 4-methyl-	2847-72-5	NBS75K.l	11615	78
Octane, 3,3-dimethyl-	4110-44-5	NBS75K.l	66216	64
Heptane, 3,3,5-trimethyl-	7154-80-5	NBS75K.l	66219	64



Data File: /chem/a900.i/d062894.b/d8758.d
Date : 28-JUN-94 19:38
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Hexane, 2,2,3,3-tetramethyl-	13475-81-5	NBS75K.l	8106	50
4,4-Dimethylcyclooctene	0-00-0	NBS75K.l	7023	45
Pentane, 3-ethyl-2,3-dimethyl-	16747-33-4	NBS75K.l	5137	45



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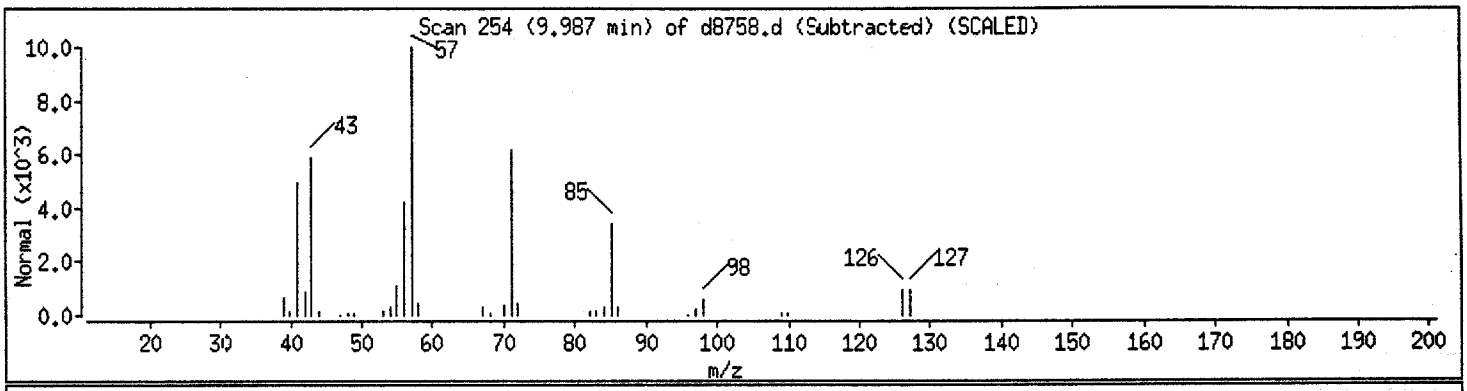
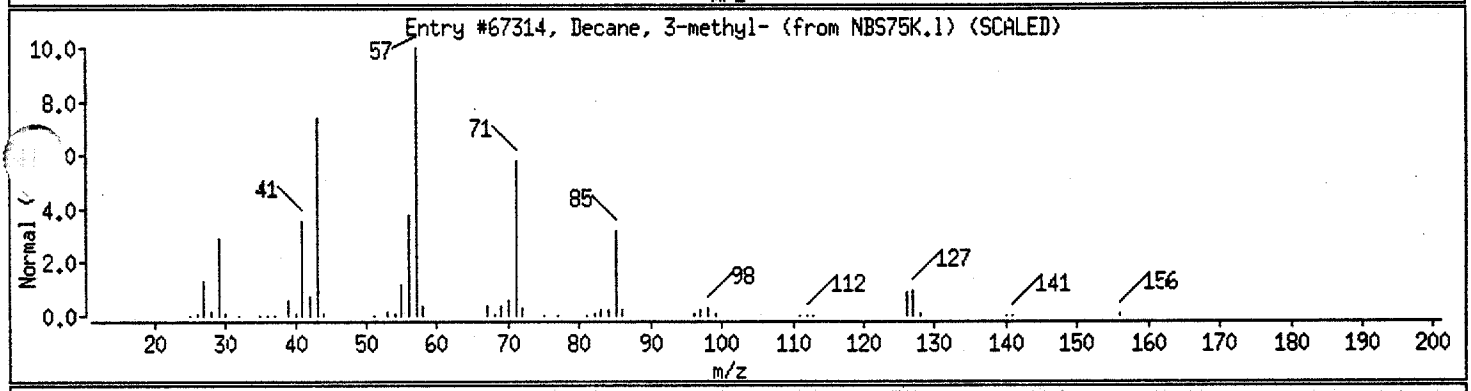
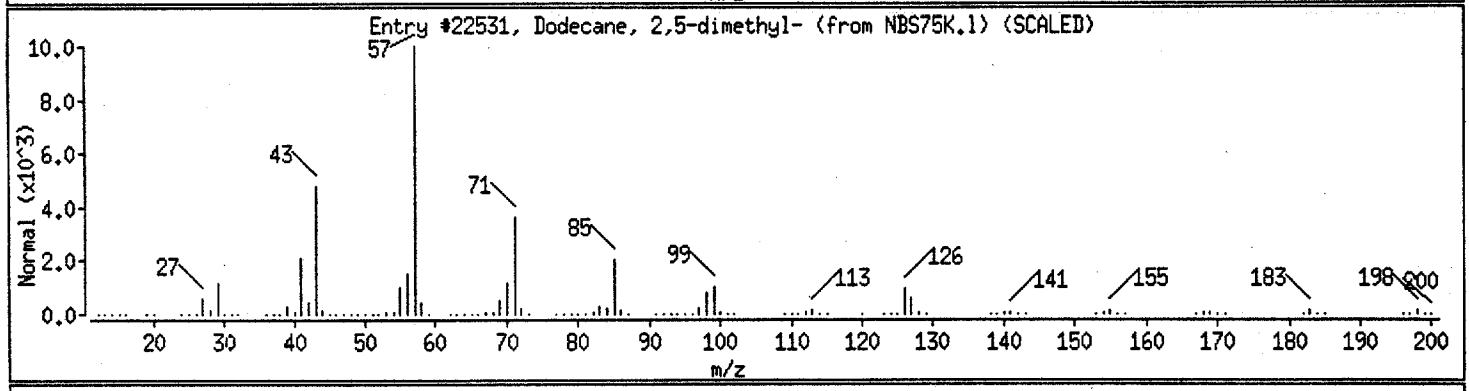
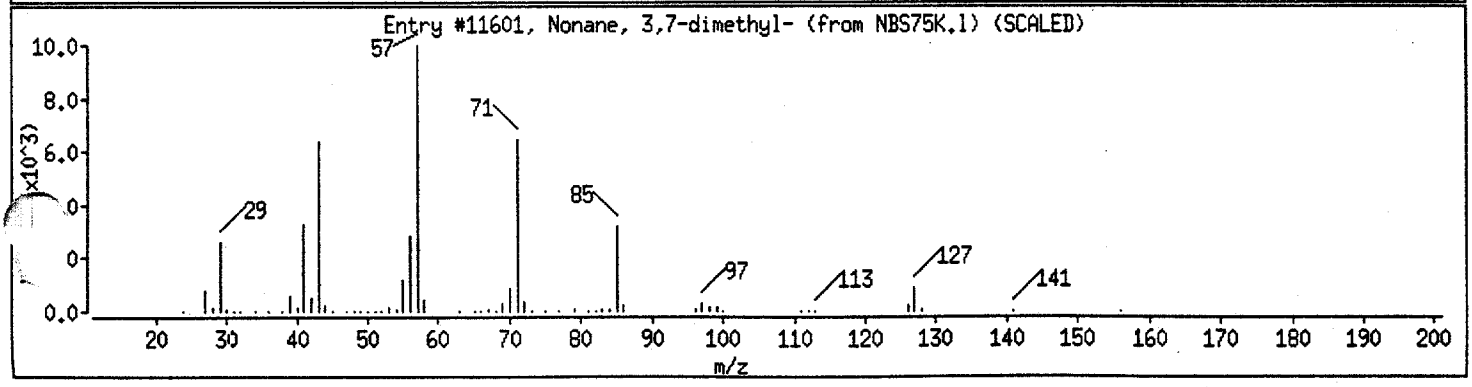
Date : 28-JUN-94 19:38
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Decane, 3-methyl-	13151-34-3	NBS75K.1	67314	83
Dodecane, 2,5-dimethyl-	56292-65-0	NBS75K.1	22531	59
Nonane, 3,7-dimethyl-	17302-32-8	NBS75K.1	11601	59



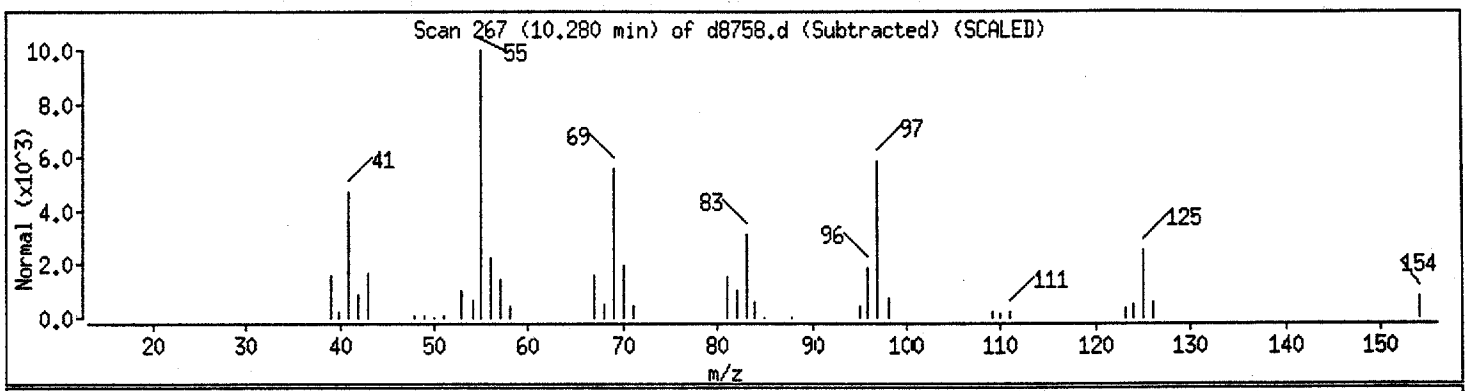


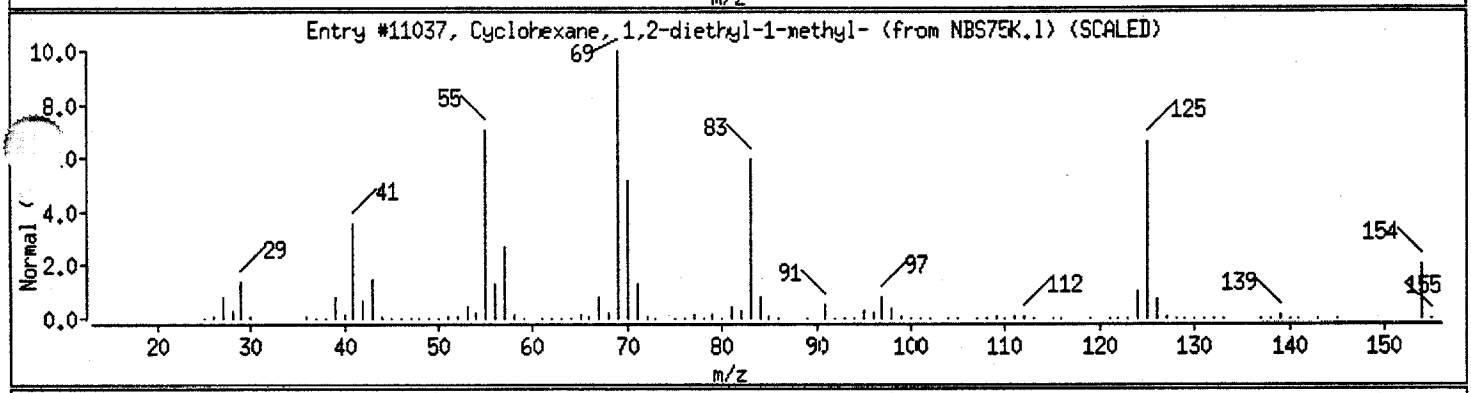


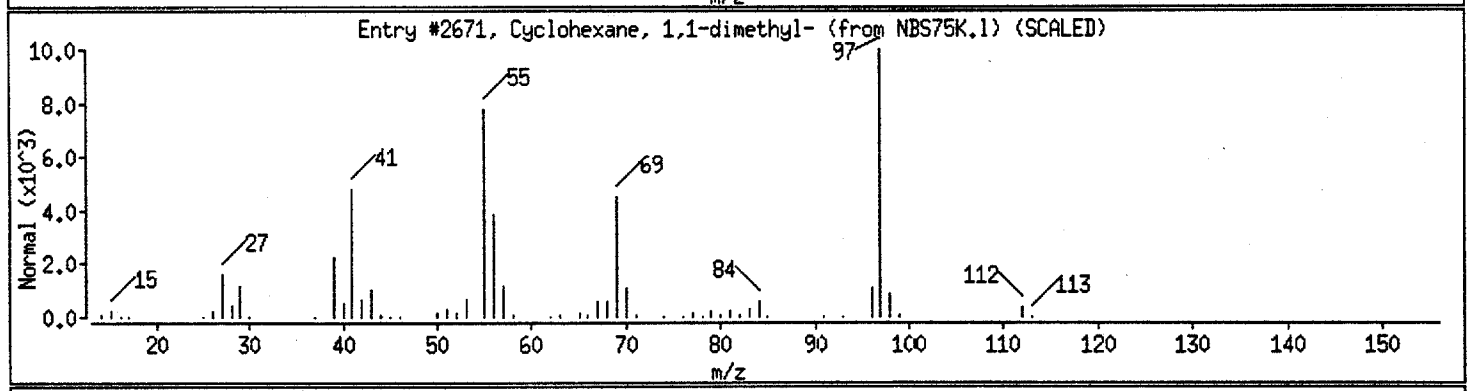


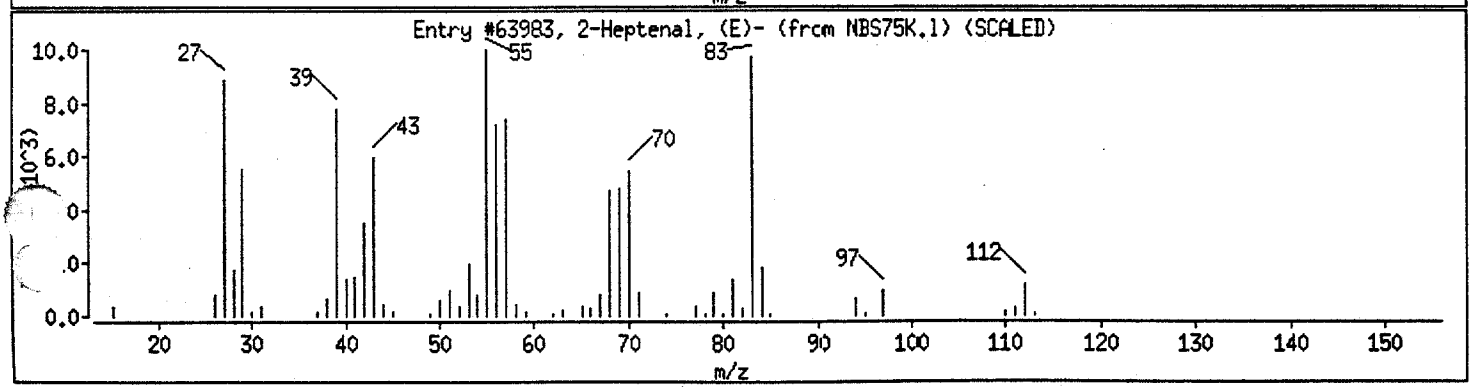
Data File: /chem/a900.i/d062894.b/d8758.d
Date : 28-JUN-94 19:38
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Cyclohexane, 1,2-diethyl-1-methyl-	61141-79-5	NBS75K.1	11037	43
Cyclohexane, 1,1-dimethyl-	590-66-9	NBS75K.1	2671	35
2-Heptenal, (E)-	18829-55-5	NBS75K.1	63983	27



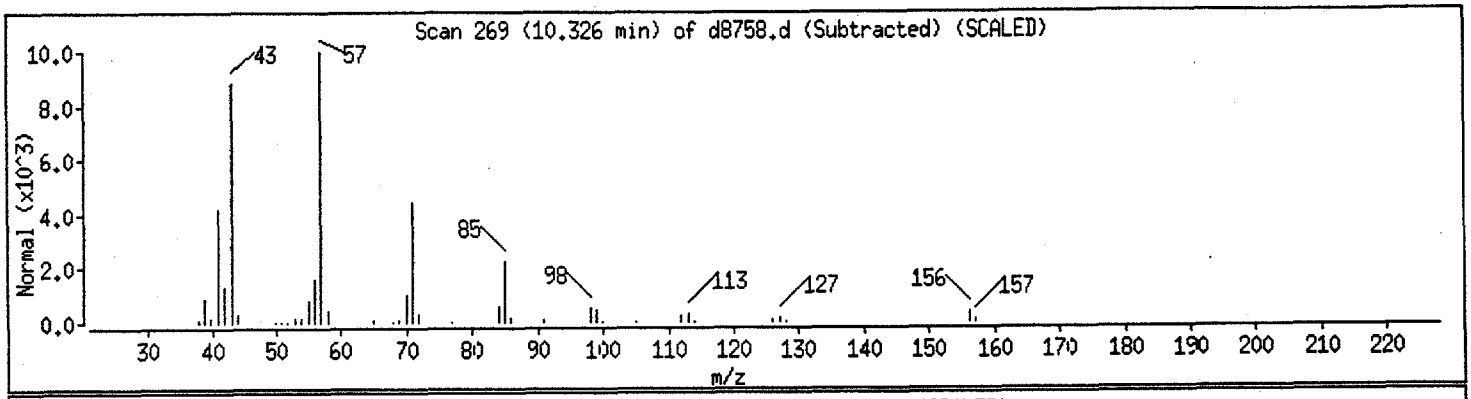


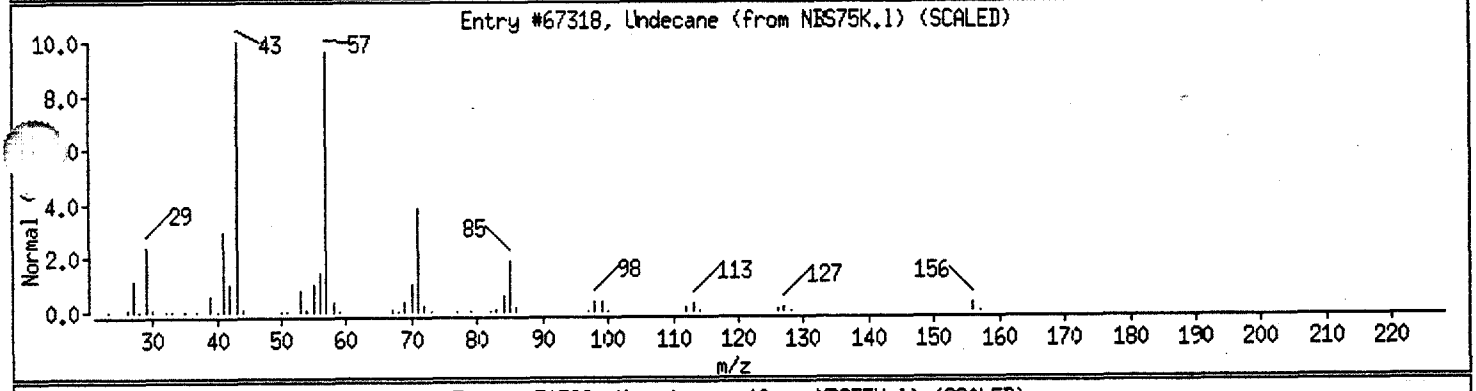


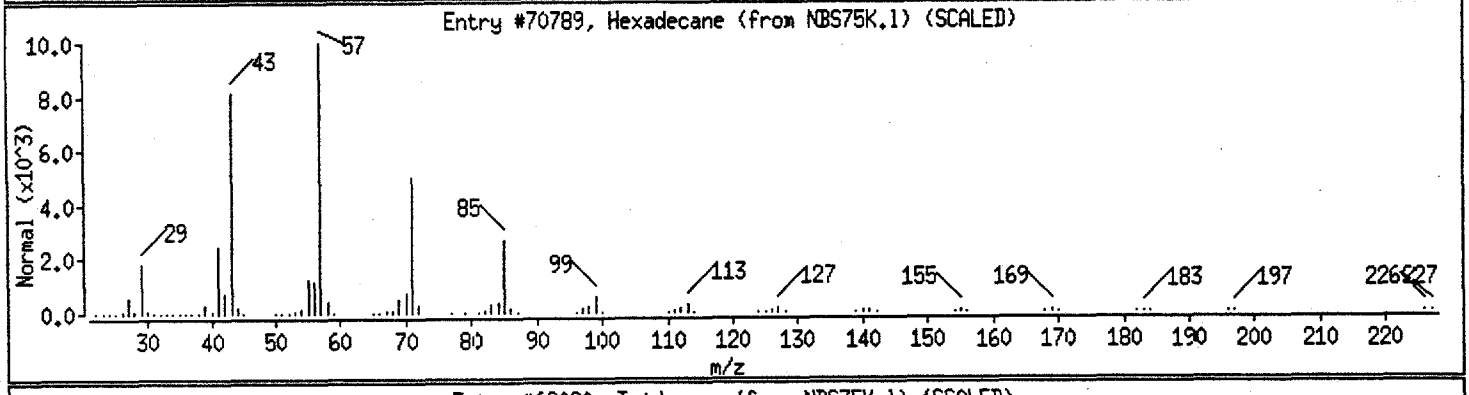


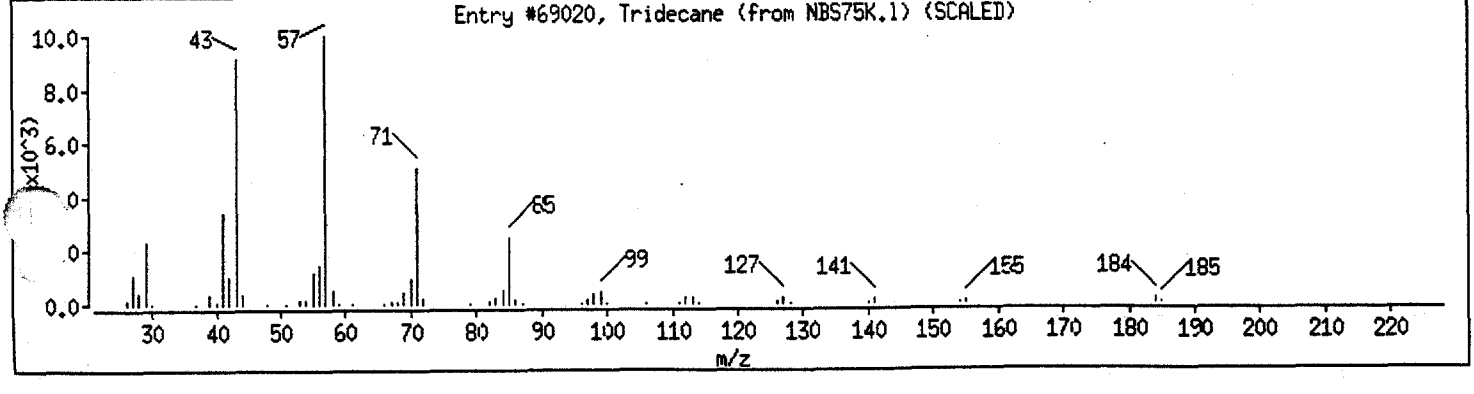
Data File: /chem/a900.i/d062894.b/d8758.d
Date : 28-JUN-94 19:38
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Undecane	1120-21-4	NBS75K.1	67318	97
Hexadecane	544-76-3	NBS75K.1	70789	90
Tridecane	629-50-5	NBS75K.1	69020	90



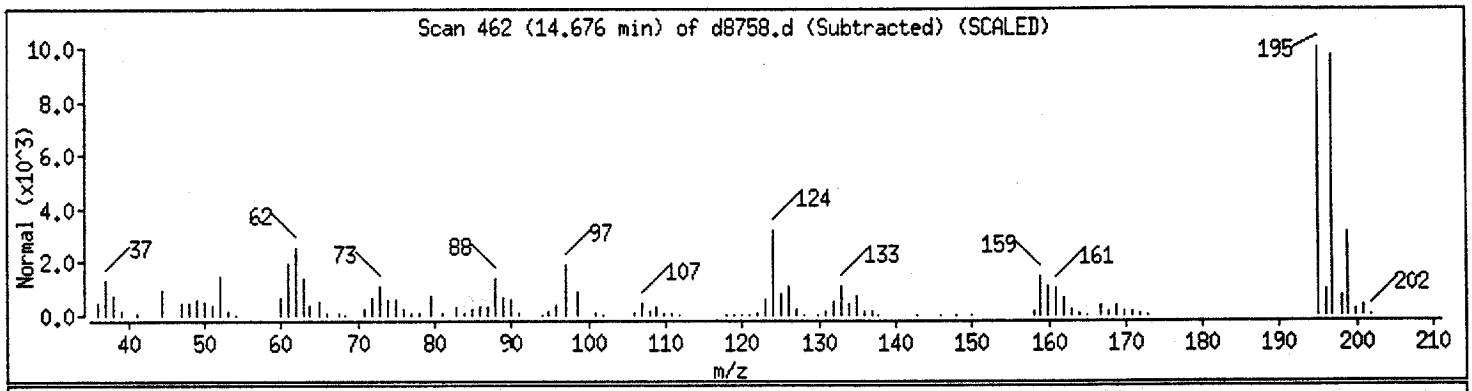


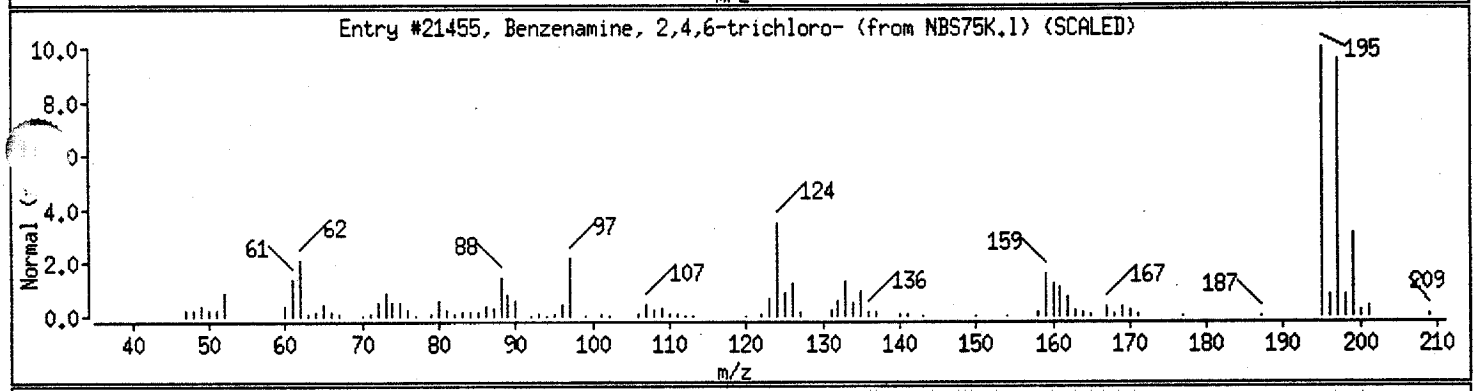


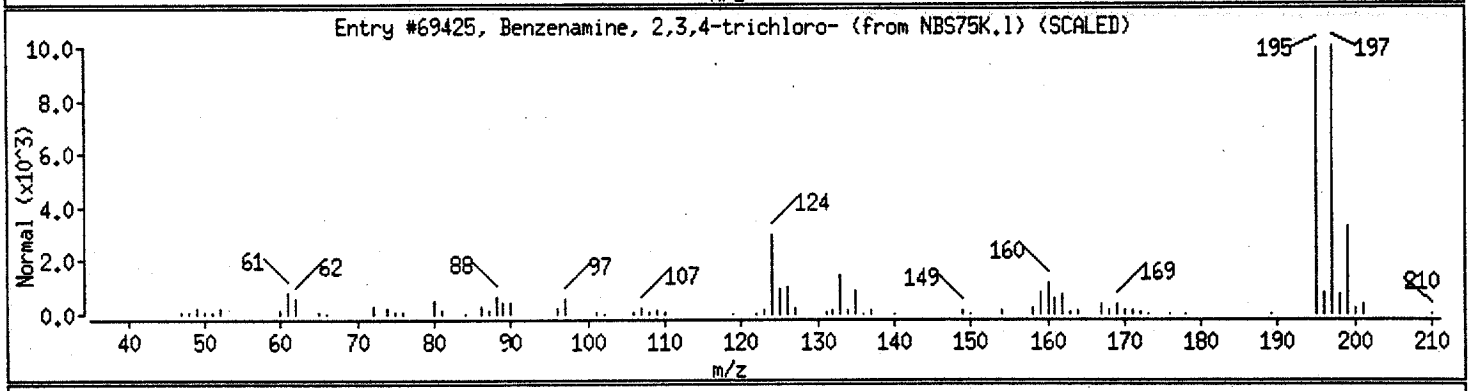


Data File: /chem/a900.i/d062894.b/d8758.d
Date : 28-JUN-94 19:38
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Benzenamine, 2,4,6-trichloro-	634-93-5	NBS75K.l	21455	98
Benzenamine, 2,3,4-trichloro-	634-67-3	NBS75K.l	69425	98







Data File: /chem/a900.i/d062894.b/d8758.d

Date : 28-JUN-94 19:38

Instrument : a900.i

Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
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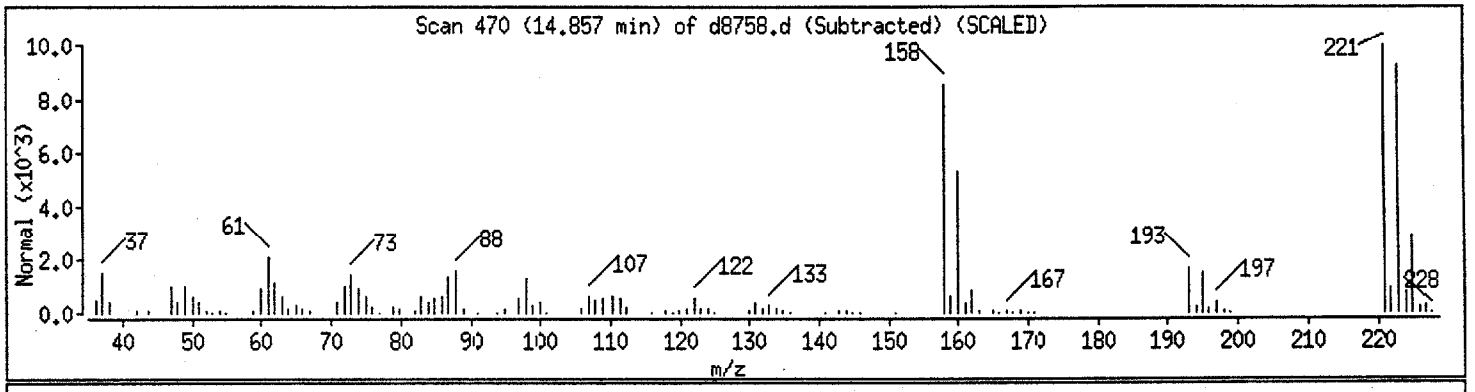
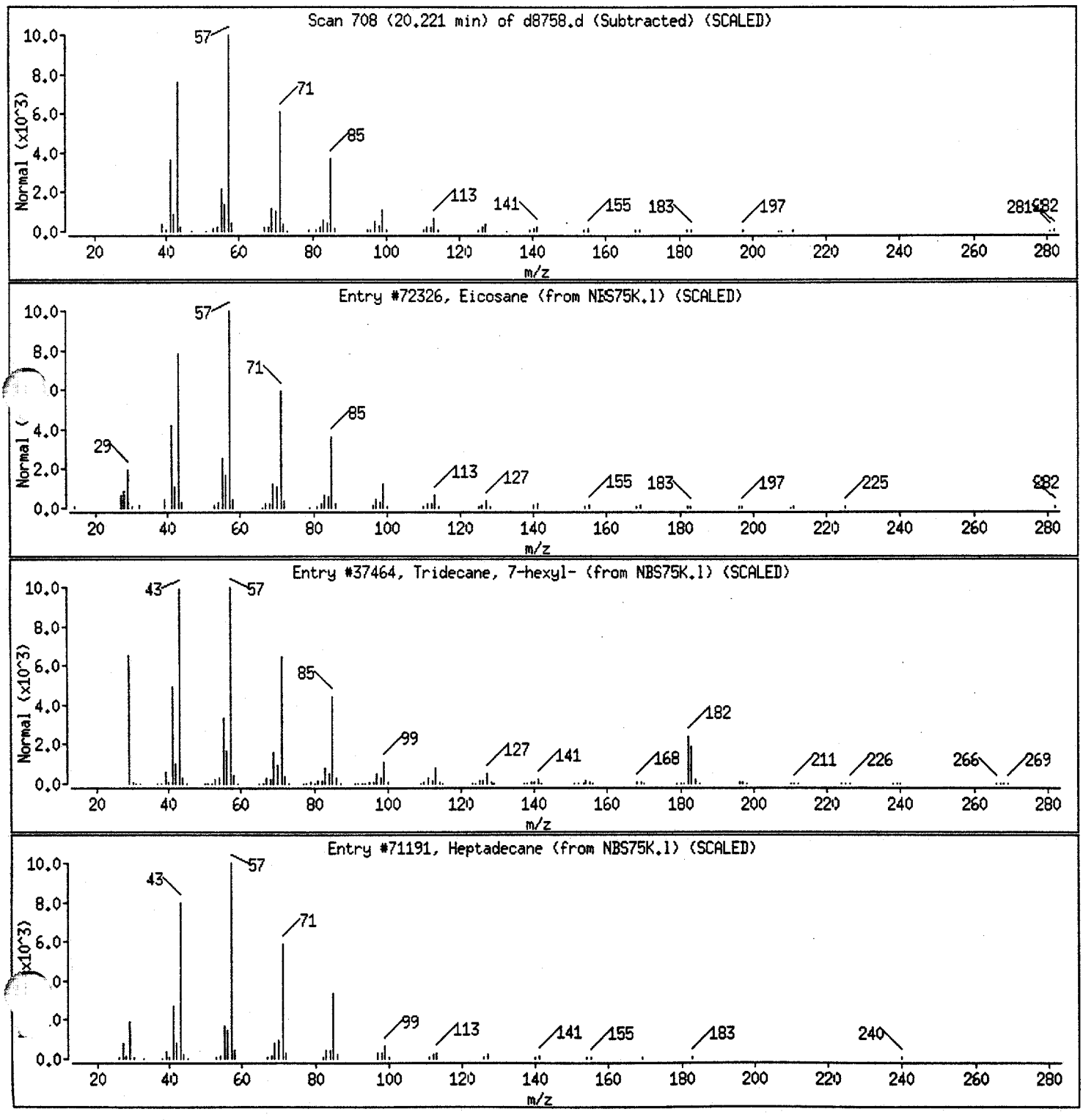


Data File: /chem/a900.i/d062894.b/d8758.d
Date : 28-JUN-94 19:38
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Eicosane	112-95-8	NBS75K.1	72326	99
Tridecane, 7-hexyl-	7225-66-3	NBS75K.1	37464	91
Heptadecane	629-78-7	NBS75K.1	71191	91



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Date : 28-JUN-94 19:38

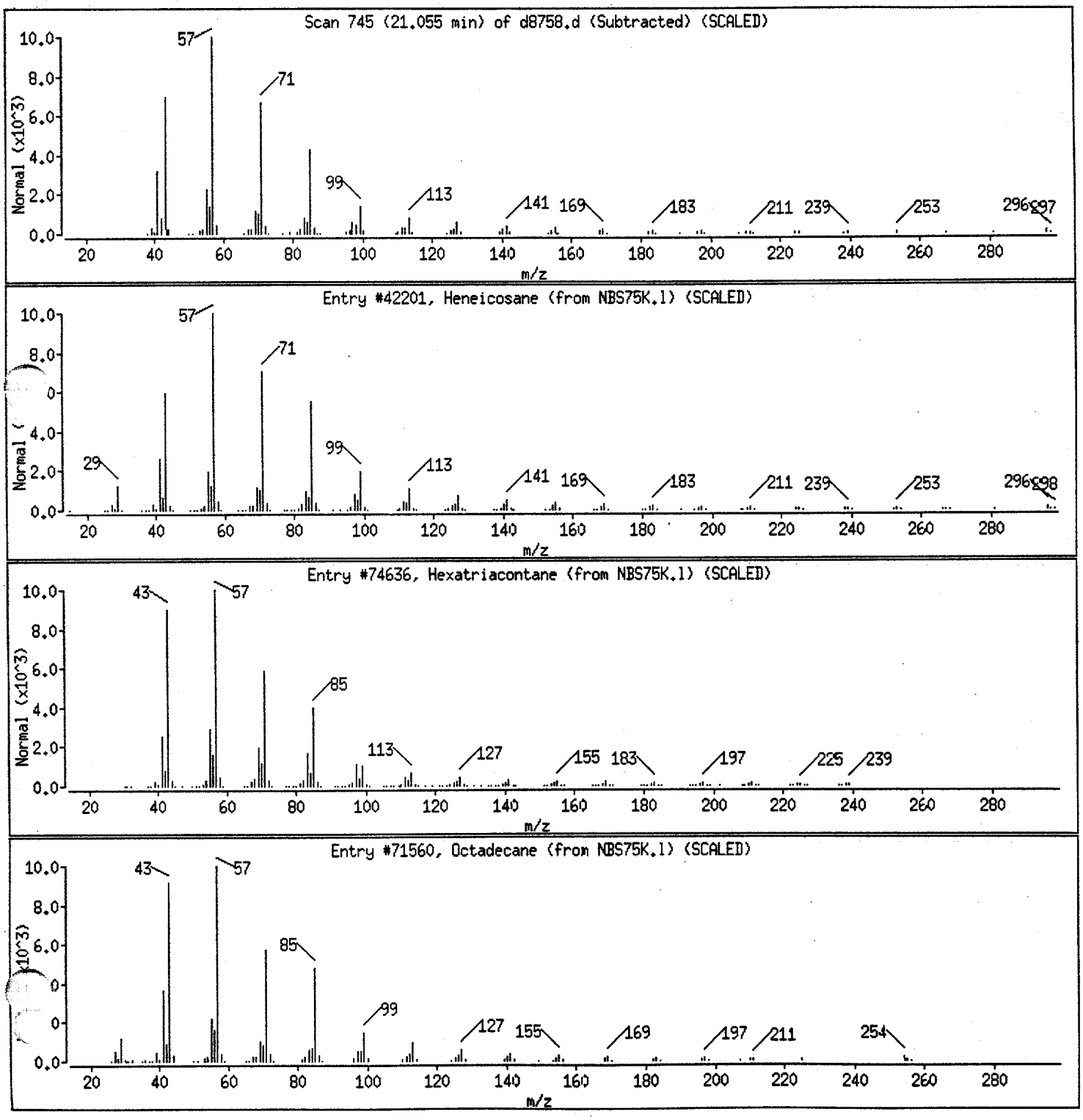
Instrument : a900.i

Sample ID :

Column phase : J&W DB-5 Column diameter : 0.25

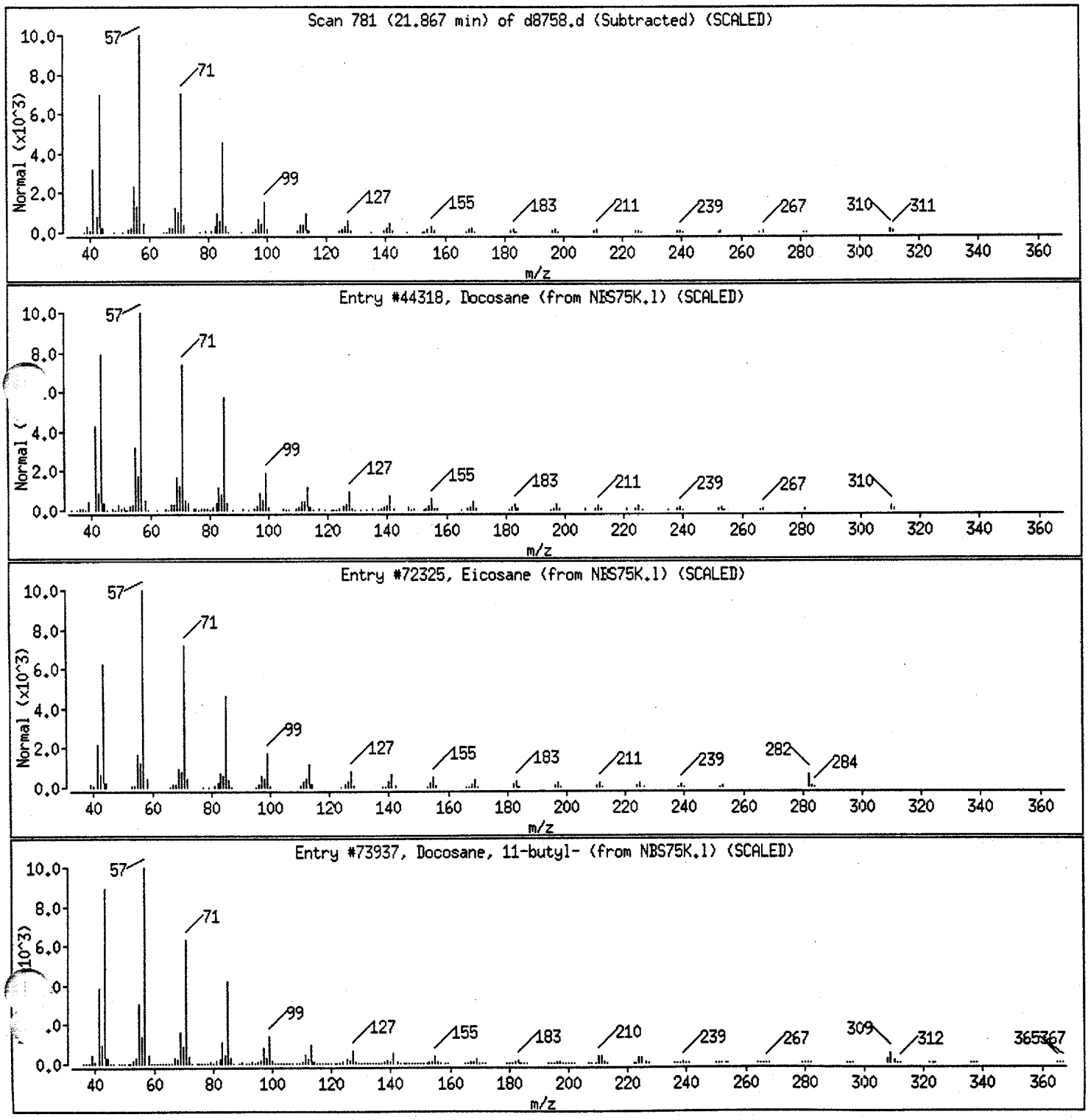
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Heneicosane	629-94-7	NBS75K.l	42201	99
Hexatriacontane	630-06-8	NBS75K.l	74636	91
Octadecane	593-45-3	NBS75K.l	71560	91



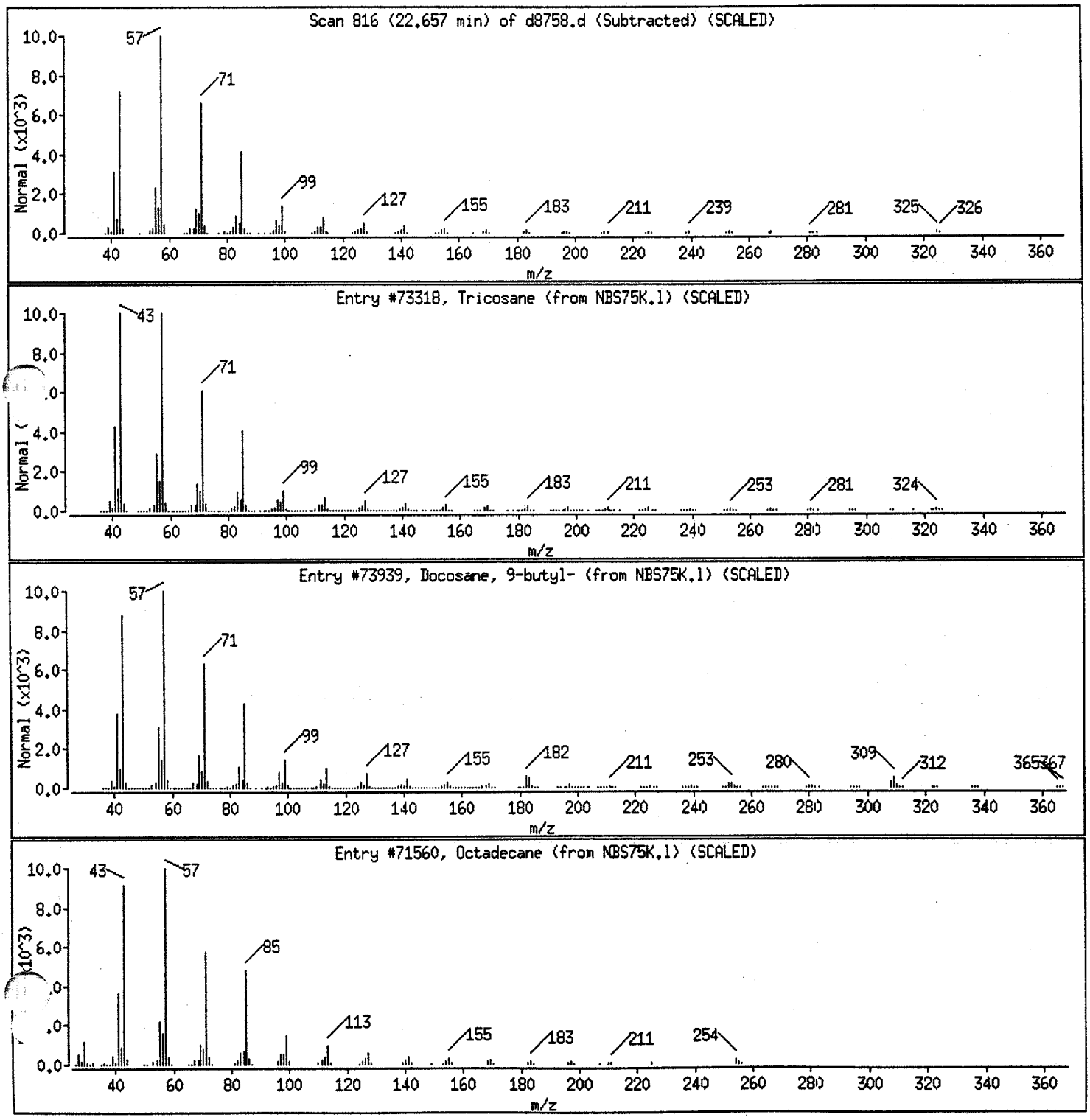
Data File: /chem/a900.i/d062894.b/d8758.d
Date : 28-JUN-94 19:38
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Docosane	629-97-0	NBS75K.1	44318	98
Eicosane	112-95-8	NBS75K.1	72325	93
Docosane, 11-butyl-	13475-76-8	NBS75K.1	73937	91



Data File: /chem/a900.i/d062894.b/d8758.d
Date : 28-JUN-94 19:38
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Tricosane	638-67-5	NBS75K.l	73318	95
Docosane, 9-butyl-	55282-14-9	NBS75K.l	73939	91
Octadecane	593-45-3	NBS75K.l	71560	91



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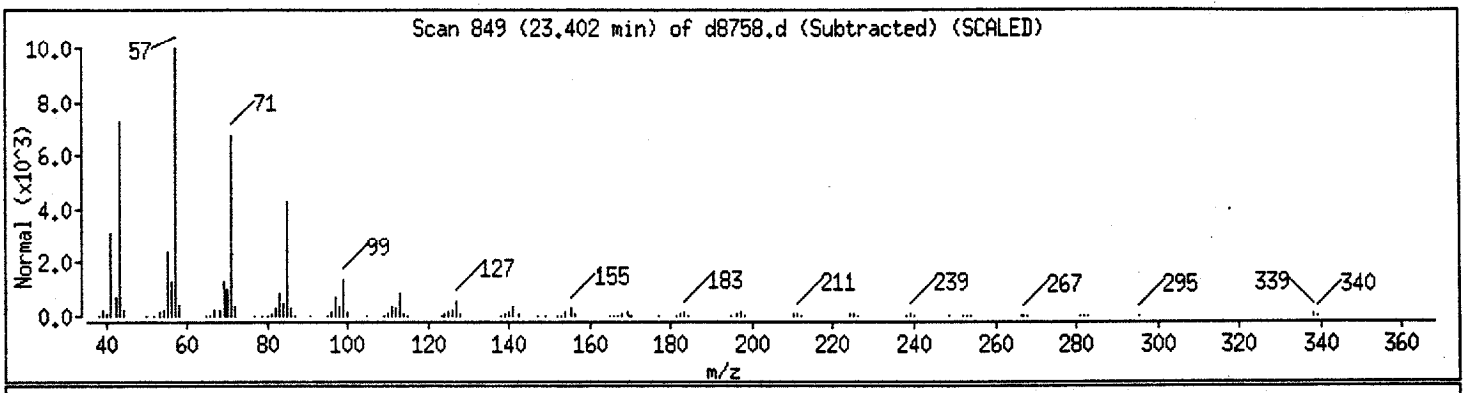
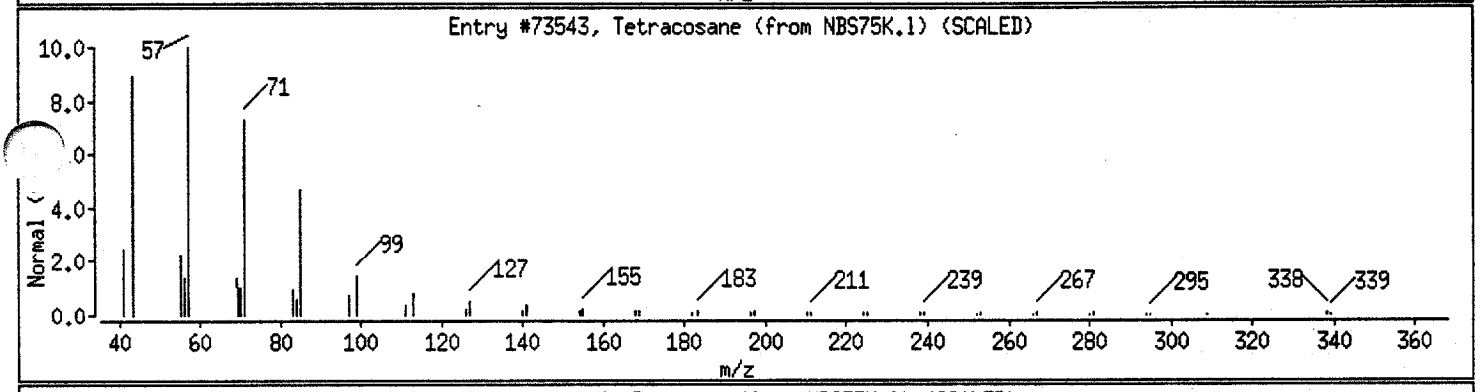
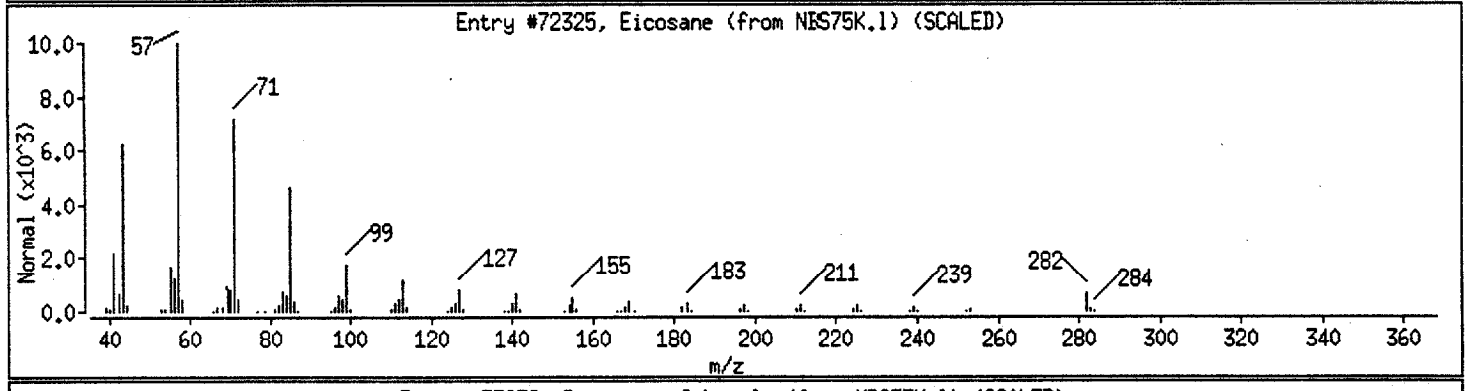
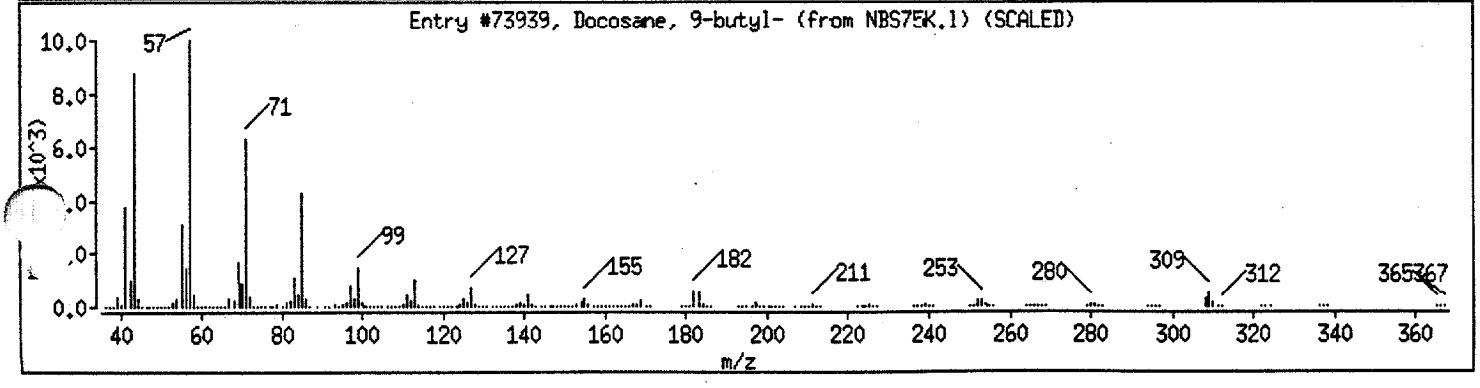
Date : 28-JUN-94 19:38
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Tetracosane	646-31-1	NBS75K.l	73543	98
Eicosane	112-95-8	NBS75K.l	72325	97
Docosane, 9-butyl-	55282-14-9	NBS75K.l	73939	91



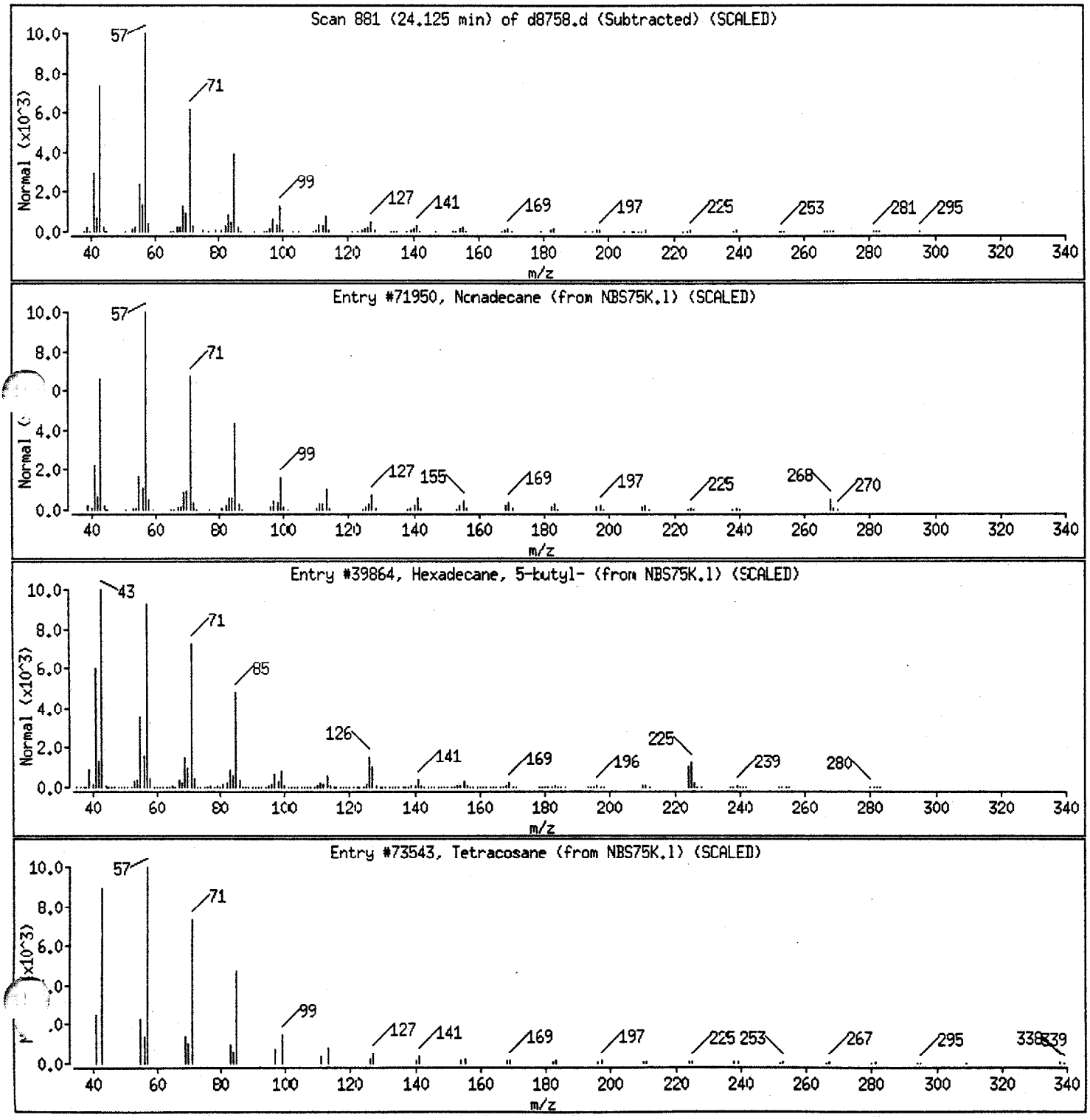






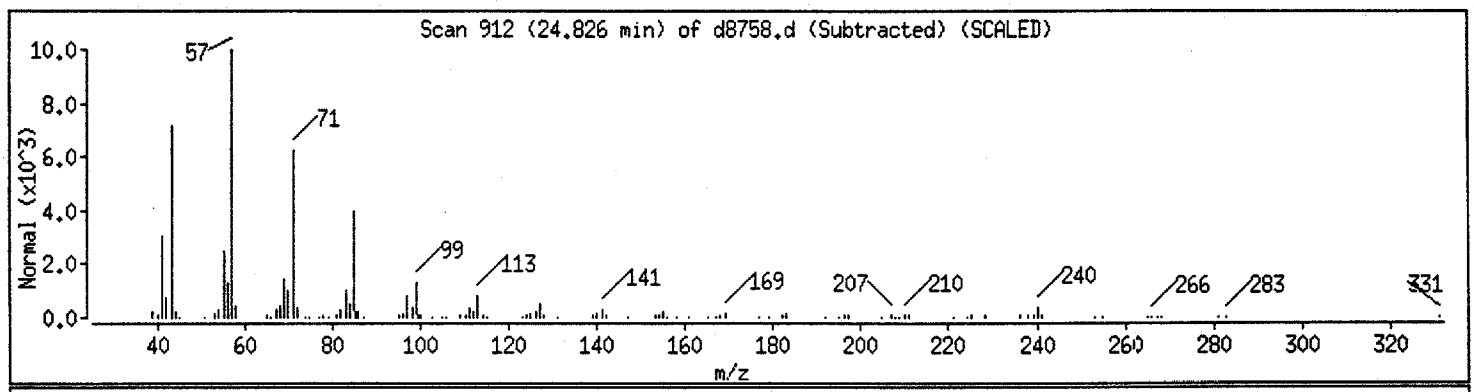
Data File: /chem/a900.i/d062894.b/d8758.d
Date : 28-JUN-94 19:38
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

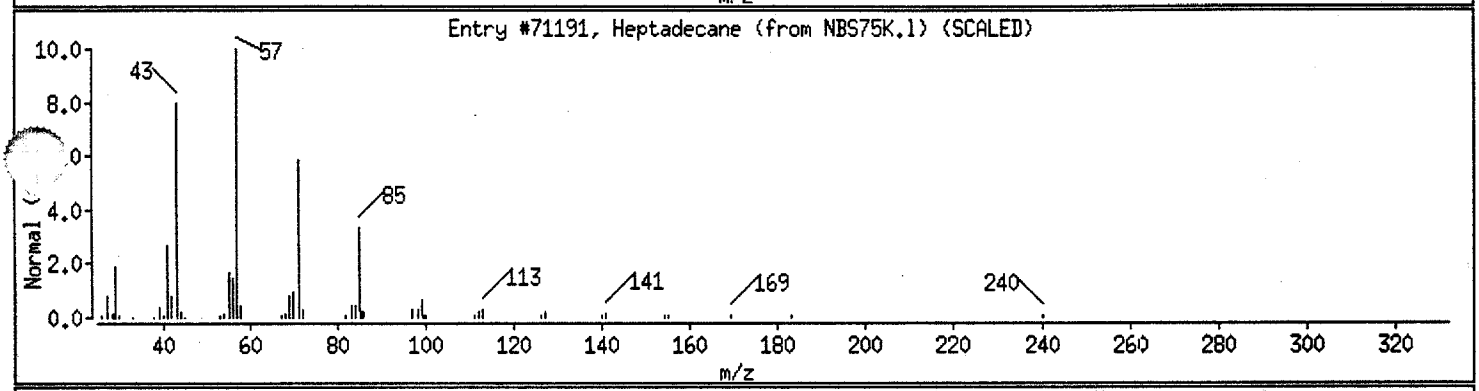
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Nonadecane	629-92-5	NBS75K.l	71950	97
Hexadecane, 5-butyl-	6912-07-8	NBS75K.l	39864	93
Tetracosane	646-31-1	NBS75K.l	73543	91

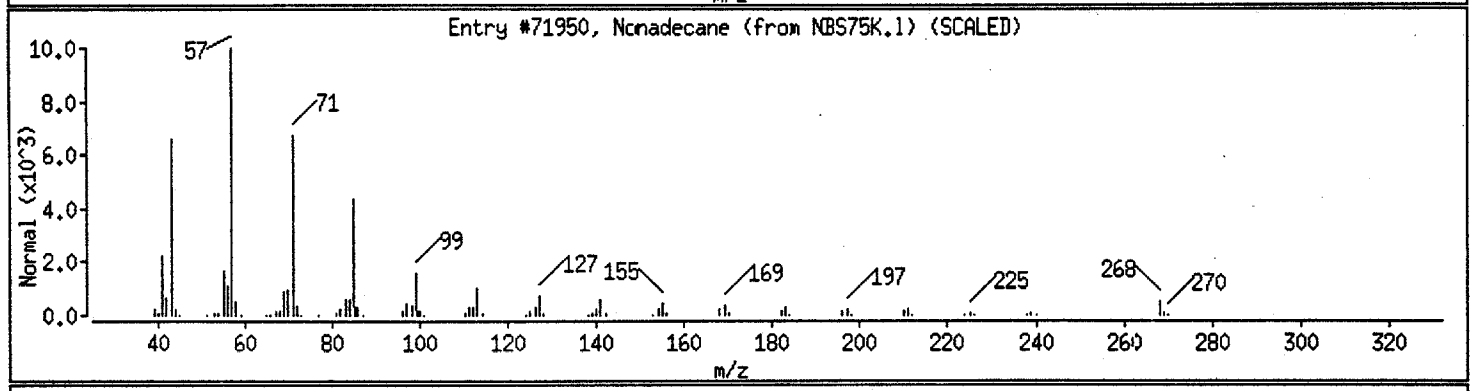


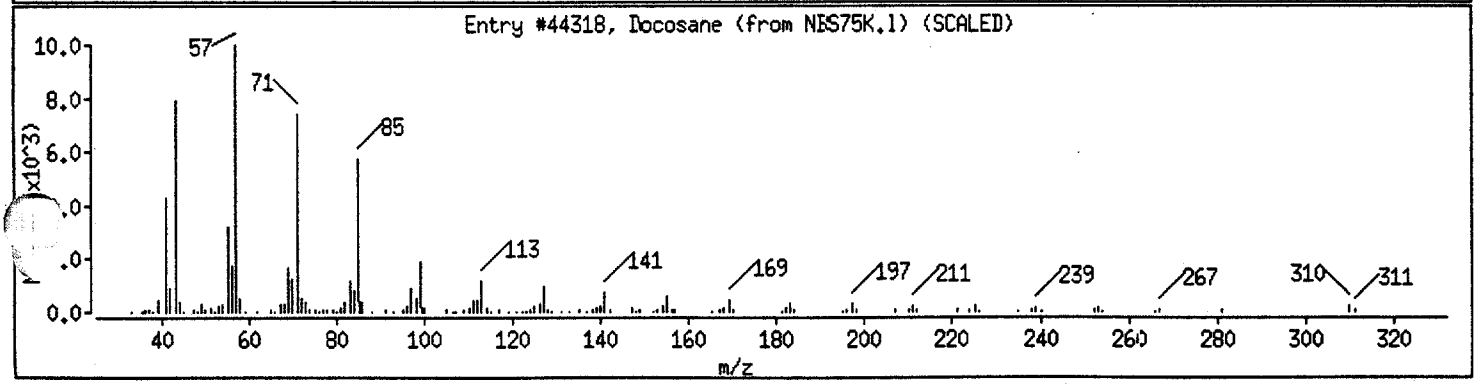
Data File: /chem/a900.i/d062894.b/d8758.d
Date : 28-JUN-94 19:38
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Heptadecane	629-78-7	NBS75K.1	71191	97
Nonadecane	629-92-5	NBS75K.1	71950	95
Docosane	629-97-0	NBS75K.1	44318	91



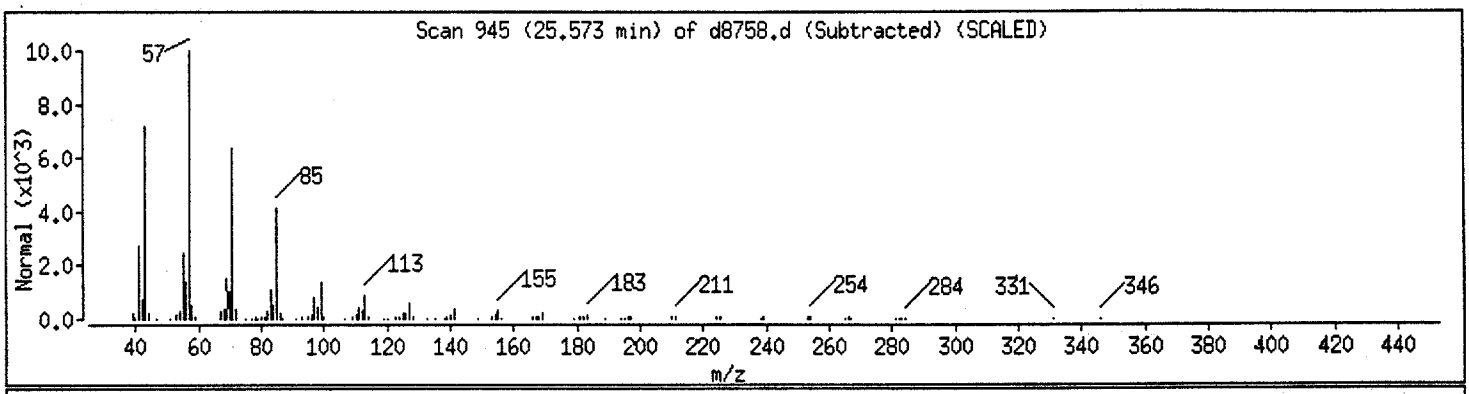


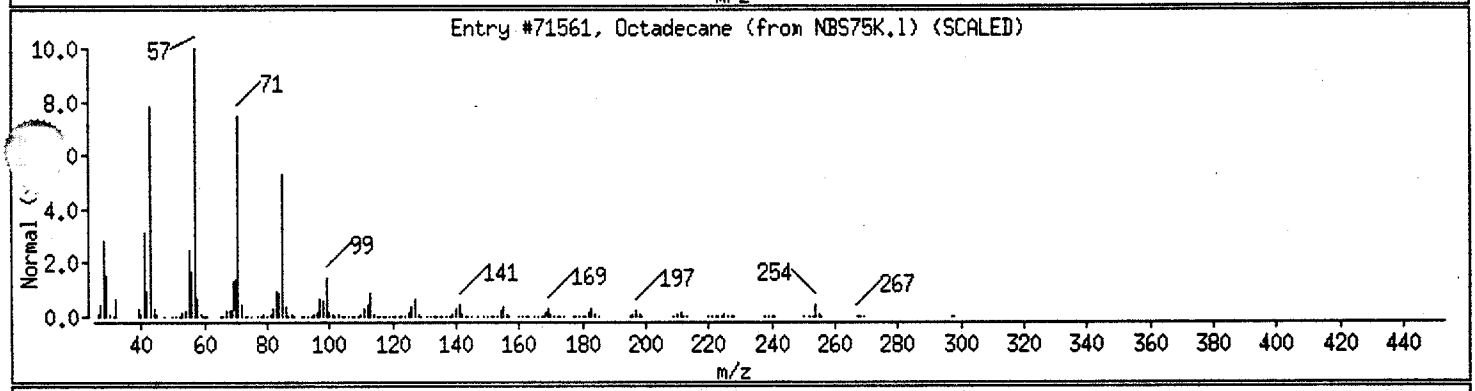


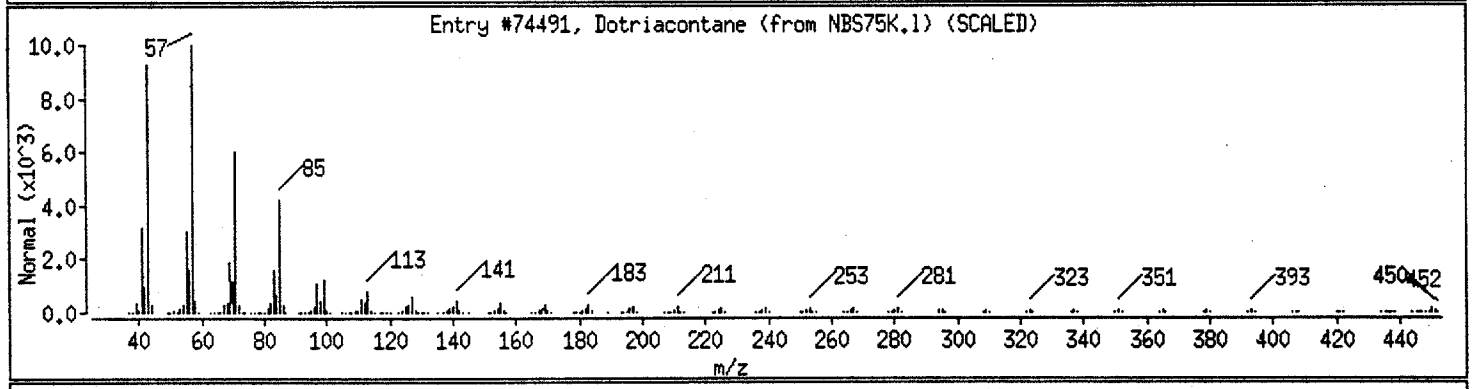


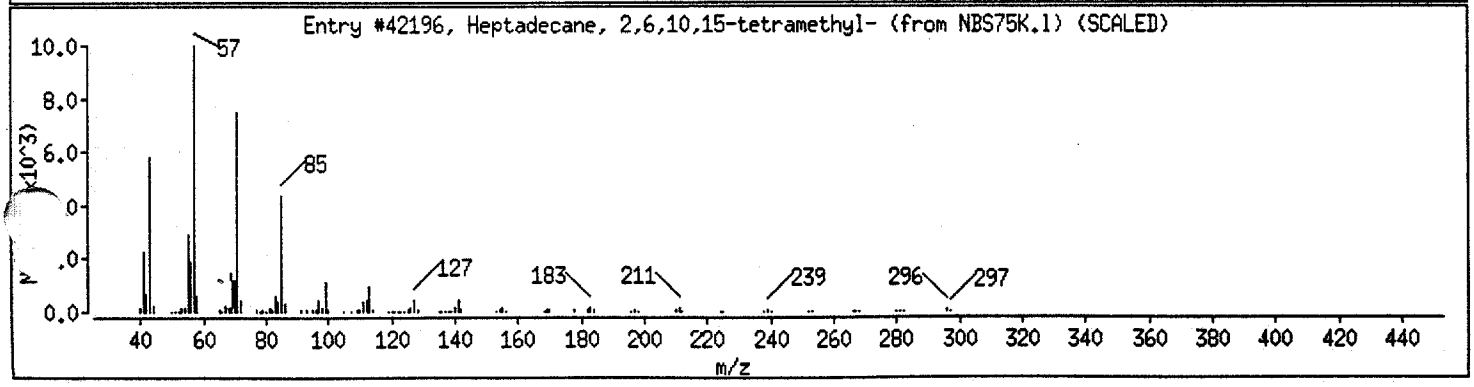
Data File: /chem/a900.i/d062894.b/d8758.d
Date : 28-JUN-94 19:38
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Octadecane	593-45-3	NBS75K.l	71561	93
Dotriacontane	544-85-4	NBS75K.l	74491	91
Heptadecane, 2,6,10,15-tetramethyl-	54833-48-6	NBS75K.l	42196	91



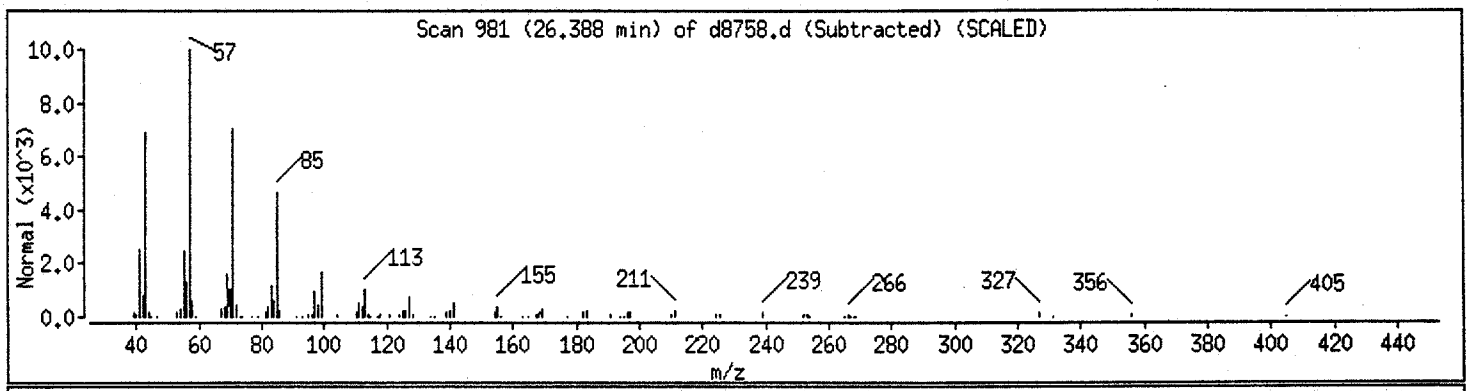


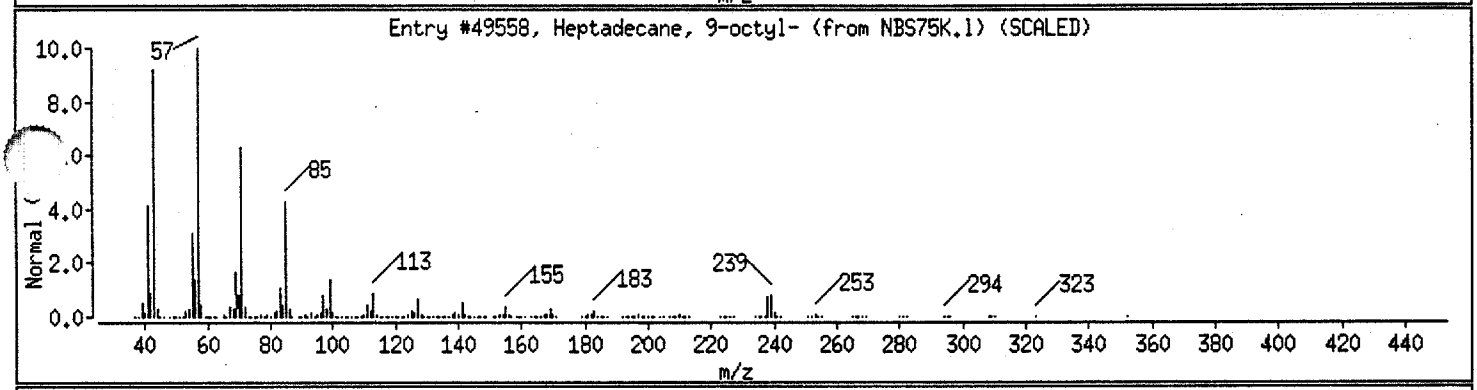


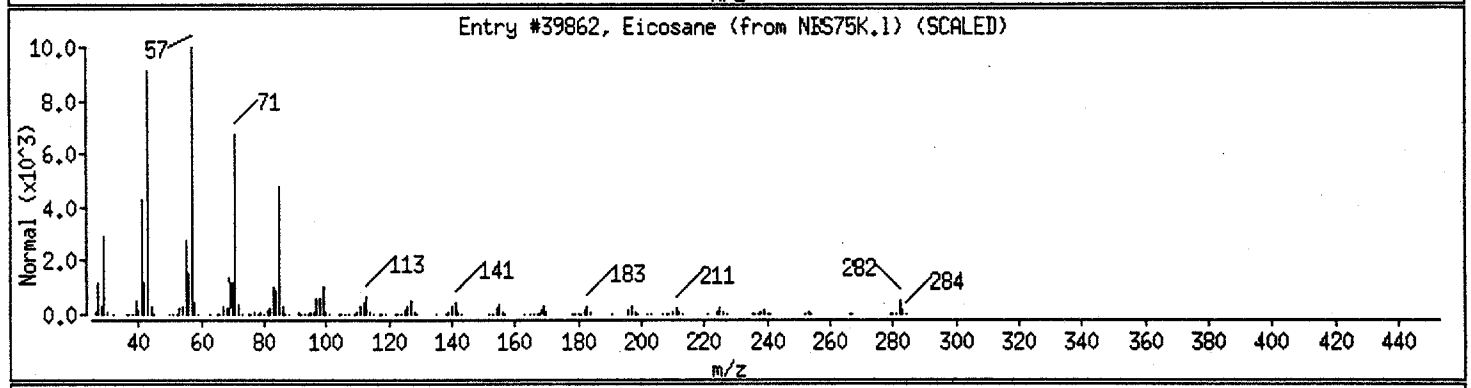


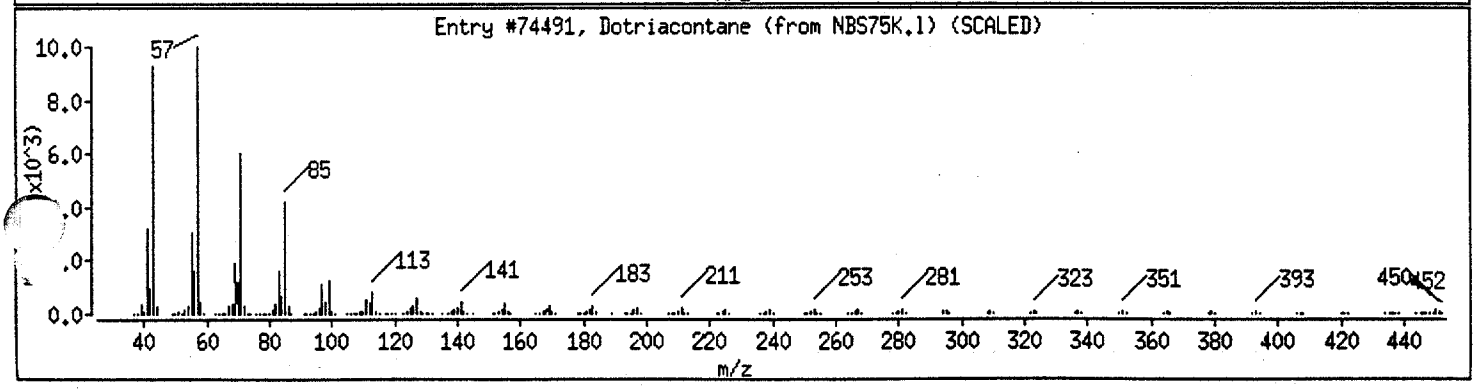
Data File: /chem/a900.i/d062894.b/d8758.d
Date : 28-JUN-94 19:38
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Heptadecane, 9-octyl-	7225-64-1	NBS75K.l	49558	91
Eicosane	112-95-8	NBS75K.l	39862	91
Dotriacontane	544-85-4	NBS75K.l	74491	91









1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. C6620

Lab Name: ASC Contract: NCEPA

Code: — Case No.: — SAS No.: — SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: JM9437C

Sample wt/vol: 30.2 (g/mL) g Lab File ID: D8759

Level: (low/med) low Date Received: 062394

% Moisture: 60.7 decanted: (Y/N) N Date Extracted: 062794

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 062894

Injection Volume: 1.0 (uL) Dilution Factor: 1000

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
108-95-2	Phenol	840 000	U
111-44-4	bis(2-Chloroethyl)ether		
95-57-8	2-Chlorophenol		
541-73-1	1,3-Dichlorobenzene		
106-46-7	1,4-Dichlorobenzene		
95-50-1	1,2-Dichlorobenzene		
95-48-7	2-Methylphenol		
108-60-1	2,2'-oxybis(1-Chloropropane)		
106-44-5	4-Methylphenol		
621-64-7	N-Nitroso-di-n-propylamine		
67-72-1	Hexachloroethane		
98-95-3	Nitrobenzene		
78-59-1	Isophorone		
88-75-5	2-Nitrophenol		
105-67-9	2,4-Dimethylphenol		
111-91-1	bis(2-Chloroethoxy)methane		
120-83-2	2,4-Dichlorophenol		
120-82-1	1,2,4-Trichlorobenzene		
91-20-3	Naphthalene		
106-47-8	4-Chloroaniline		
87-68-3	Hexachlorobutadiene		
59-50-7	4-Chloro-3-methylphenol		
91-57-6	2-Methylnaphthalene		
77-47-4	Hexachlorocyclopentadiene		
88-06-2	2,4,6-Trichlorophenol	2 000 000	
95-95-4	2,4,5-Trichlorophenol	840 000	
91-58-7	2-Chloronaphthalene	2 000 000	
88-74-4	2-Nitroaniline	840 000	
131-11-3	Dimethylphthalate		
208-96-8	Acenaphthylene		
606-20-2	2,6-Dinitrotoluene	2 000 000	
99-09-2	3-Nitroaniline	840 000	
83-32-9	Acenaphthene		

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 0343

C6620

Lab Name: ASC Contract: NEESA

Code: — Case No.: — SAS No.: — SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: JM9437C

Sample wt/vol: 30.2 (g/mL) g Lab File ID: D8759

Level: (low/med) low Date Received: 06/23/94

% Moisture: 60.7 decanted: (Y/N) N Date Extracted: 06/27/94

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/28/94

Injection Volume: 1.0 (uL) Dilution Factor: 1000

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	2000000	U
100-02-7	4-Nitrophenol	↓	↓
132-64-9	Dibenzofuran	840000	
121-14-2	2,4-Dinitrotoluene		
84-66-2	Diethylphthalate		
7005-72-3	4-Chlorophenyl-phenylether		
86-73-7	Fluorene		
100-01-6	4-Nitroaniline	2000000	
534-52-1	4,6-Dinitro-2-methylphenol	↓	
86-30-6	N-Nitrosodiphenylamine (1)	840000	
101-55-3	4-Bromophenyl-phenylether		
118-74-1	Hexachlorobenzene	↓	
87-86-5	Pentachlorophenol	2000000	
85-01-8	Phenanthrene	840000	
120-12-7	Anthracene		
86-74-8	Carbazole		
84-74-2	Di-n-butylphthalate		
206-44-0	Fluoranthene		
129-00-0	Pyrene		
85-68-7	Butylbenzylphthalate		
91-94-1	3,3'-Dichlorobenzidine		
56-55-3	Benzo(a)anthracene		
218-01-9	Chrysene		
117-81-7	bis(2-Ethylhexyl)phthalate		
117-84-0	Di-n-octylphthalate		
205-99-2	Benzo(b)fluoranthene		
207-08-9	Benzo(k)fluoranthene		
50-32-8	Benzo(a)pyrene		
193-39-5	Indeno(1,2,3-cd)pyrene		
53-70-3	Dibenz(a,h)anthracene		
191-24-2	Benzo(g,h,i)perylene	↓	↓

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C6620

Lab Name: ASC Contract: NEESA

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

Matrix: (soil/water) Soil Lab Sample ID: JM9437C

Sample wt/vol: 30.2 (g/mL) g Lab File ID: D8759

Level: (low/med) low Date Received: 062394

% Moisture: 60.7 decanted: (Y/N) N Date Extracted: 062794

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 062894

Injection Volume: 1.0 (uL) Dilution Factor: 1000

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

Number TICs found: 7 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	7.26	653000	J
2.		Unknown	7.53	182000	
3.	634-93-5	Benzenamine, 2,4,6-trimethyl	14.65	3232000	
4.		Unknown	14.85	2620000	
5.	53-19-0	Mitotane	23.03	182000	
6.	789-02-6	OP'-DDT	23.13	341000	
7.	50-29-3	Chlorophenothane	23.69	941000	
8.					
9.					
10.					
11.					
12.					
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21.					
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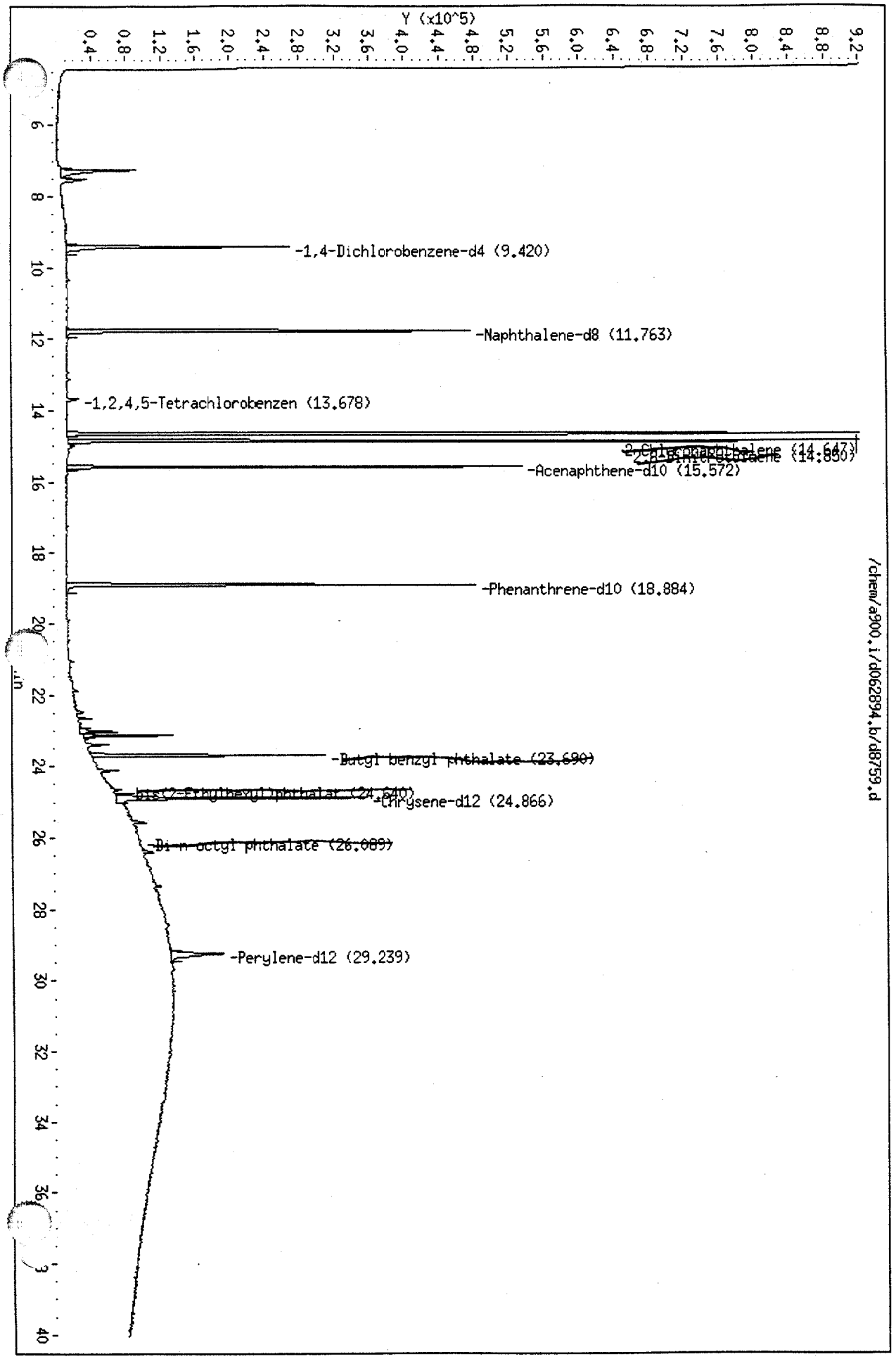
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

Data File: /chem/a900.i/d062894.b/d8759.d
Date : 28-JUN-94 20:27
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Volume Injected (uL) : 1.0



Column diameter : 0.25

C6620

DL 0346
6-29-94

Analytical Services Corp.

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/a900.i/d062894.b/d8759.d
Lab. Id. : Quant Type: ISTD
Inj Date : 28-JUN-94 20:27 Autotune Date: {
Operator : Tom Inst ID: a900.i
Smp Info : 15226N-C6620
Misc Info : JM9437C,N2C40851,S:M1,30.2,10:100, BTL#
Comment :
Method : /chem/a900.i/d062894.b/bna8270d.m
Meth Date : 29-Jun-1994 08:02 darren
Cal Date : 28-JUN-94 14:35 Cal File: d8753.d
Als bottle: 0
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)
	1,4-Dichlorobenzene-d4	152.00	9.420	(1.000)	132926 OK	40.0	
*	Naphthalene-d8	136.00	11.763	(1.000)	536044 OK	40.0	
47	1,2,4,5-Tetrachlorobenzene	216.00	13.678	(0.878)	5605	1.51	1.51(aA)
~~52~~	~~2-Chloronaphthalene~~	162.00	14.647	(0.941)	23434	3.19	~~3.19(Ta)~~ RT
~~56~~	~~2,6-Dinitrotoluene~~	165.00	14.850	(0.954)	1844	0.692	~~0.692(aQ)~~ < 1
* 58	Acenaphthene-d10	164.00	15.572	(1.000)	302911 OK	40.0	
* 81	Phenanthrene-d10	188.00	18.884	(1.000)	443154 OK	40.0	
~~93~~	~~Butyl benzyl phthalate~~	149.00	23.690	(0.953)	2205	0.322	~~0.322(aQ)~~ < 1
~~95~~	~~bis(2-Ethylhexyl)phthalate~~	149.00	24.640	(0.991)	5929	0.751	~~0.751(a)~~ < 1
* 99	Chrysene-d12	240.00	24.866	(1.000)	332140 OK	40.0	
~~101~~	~~Di-n-octyl phthalate~~	149.00	26.089	(0.892)	1397	0.242	~~0.242(a)~~ < 1
* 105	Perylene-d12	264.00	29.239	(1.000)	109589 LOW	40.0	

↓ < 2X

QC Flag Legend

T - Target compound detected outside RT window.
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.

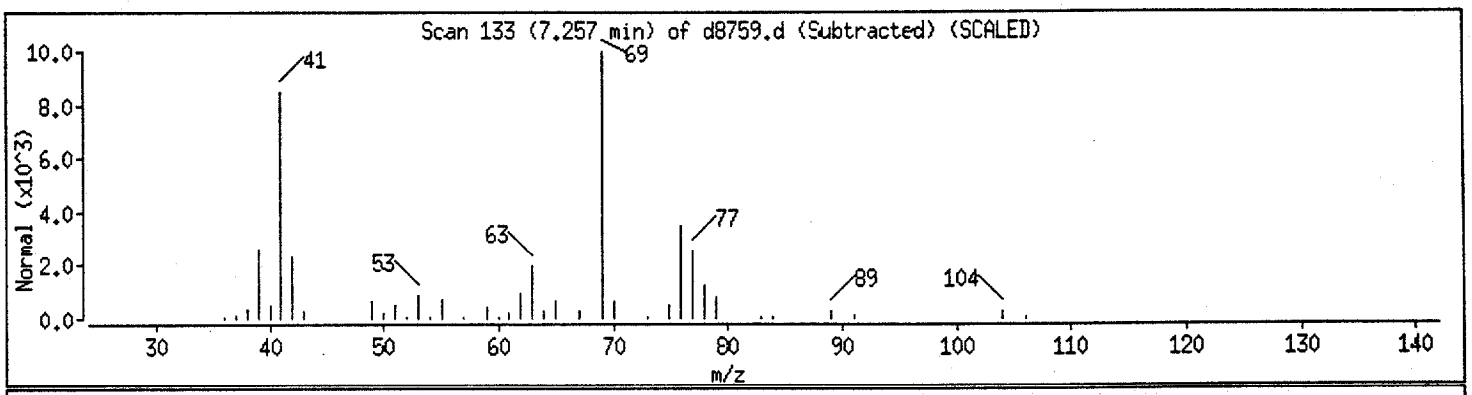
Data File: /chem/a900.i/d062894.b/d8759.d
Report Date: 29-Jun-1994 08:06

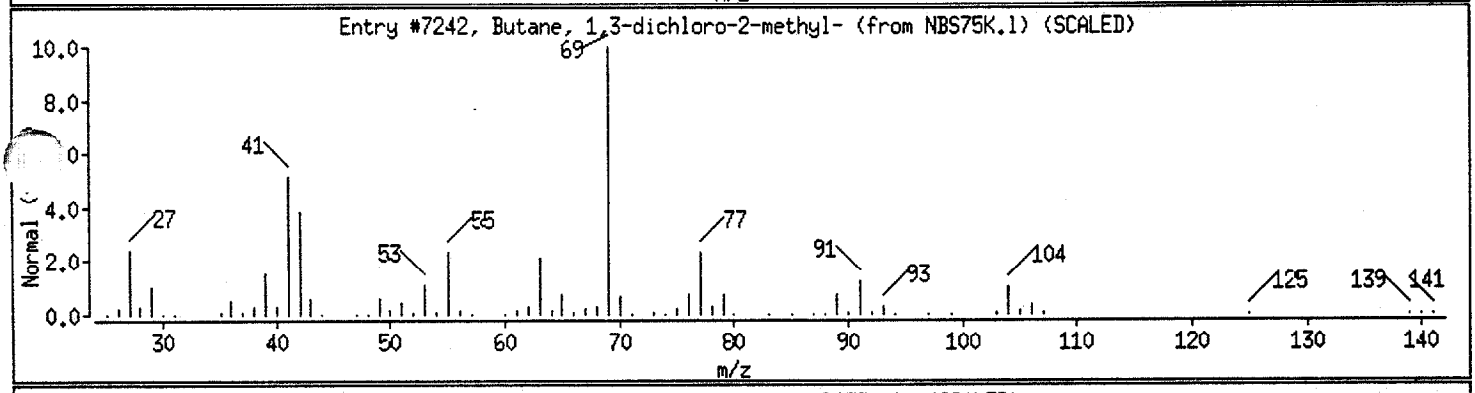
Q Flag Legend

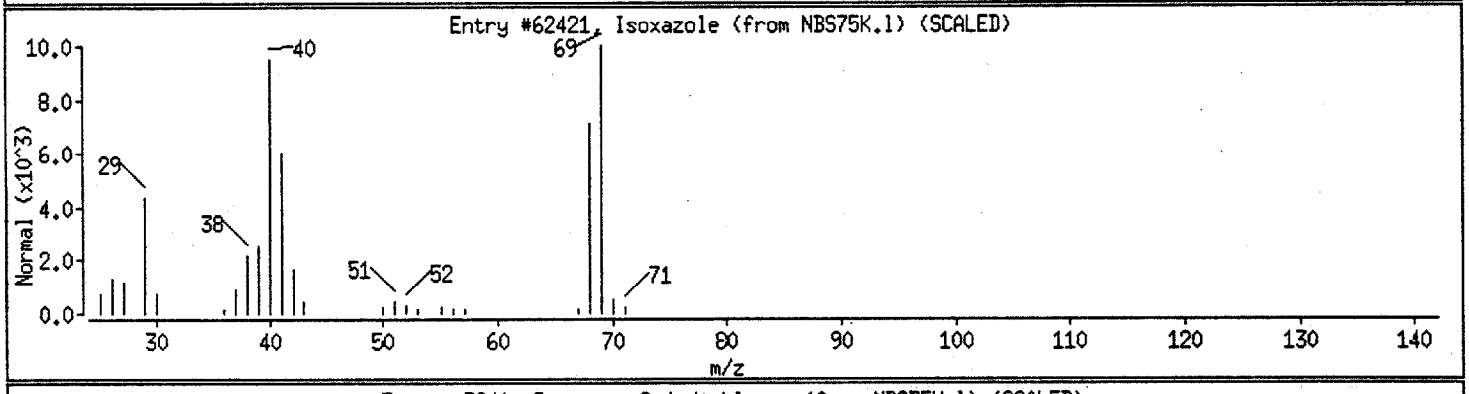
Q - Qualifier signal failed the ratio test.

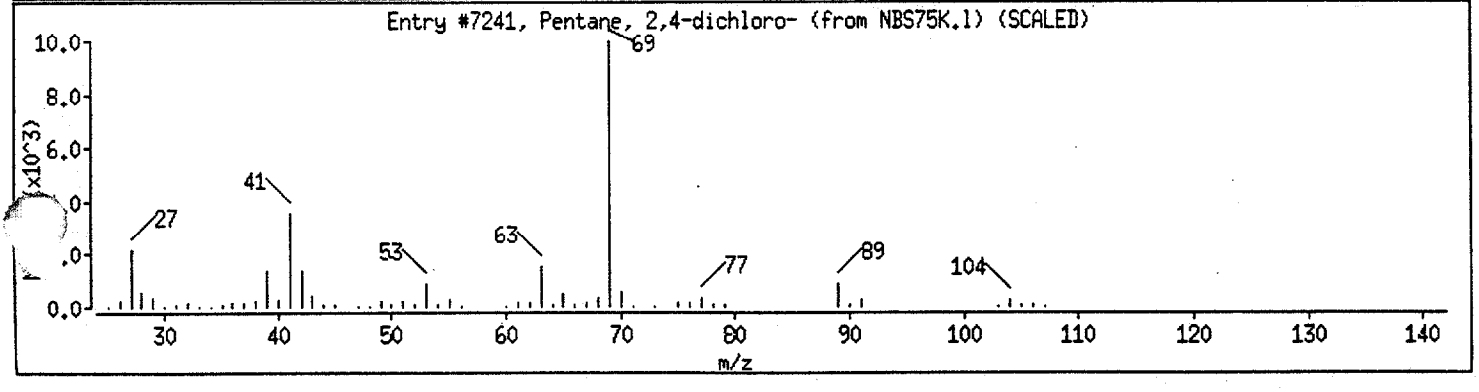
Data File: /chem/a900.i/d062894.b/d8759.d
Date : 28-JUN-94 20:27
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Butane, 1,3-dichloro-2-methyl-	23010-07-3	NBS75K.1	7242	38
Isoxazole	288-14-2	NBS75K.1	62421	23
Pentane, 2,4-dichloro-	625-67-2	NBS75K.1	7241	23



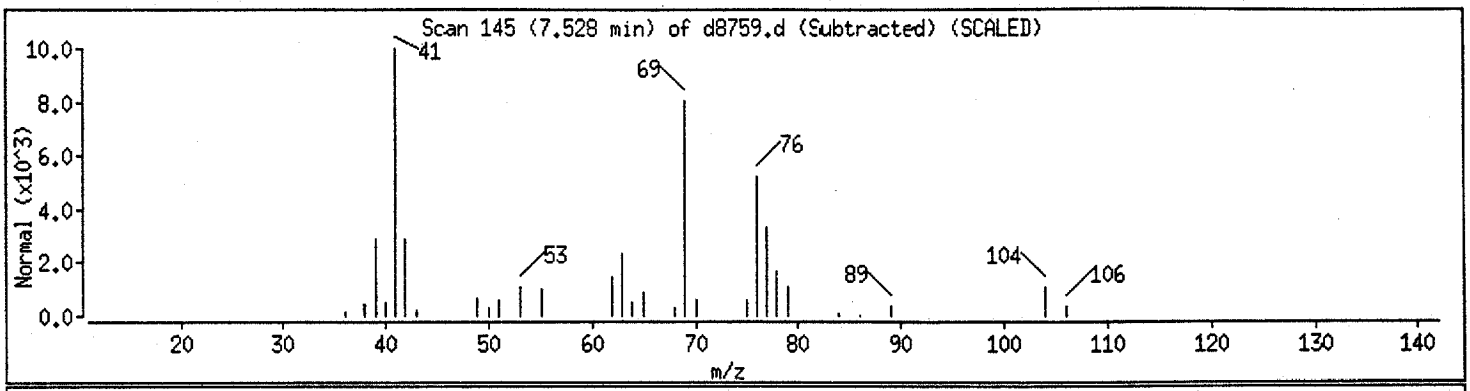


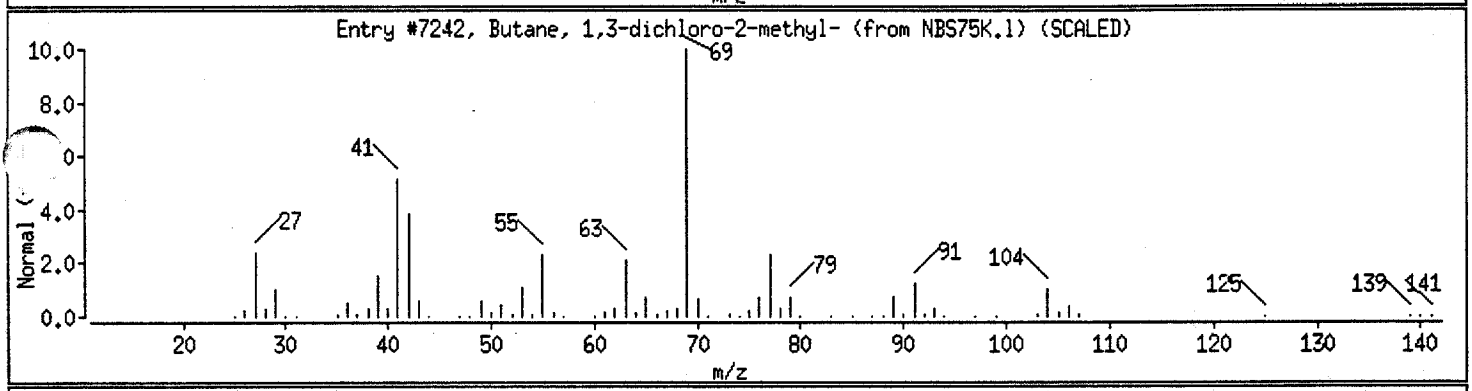


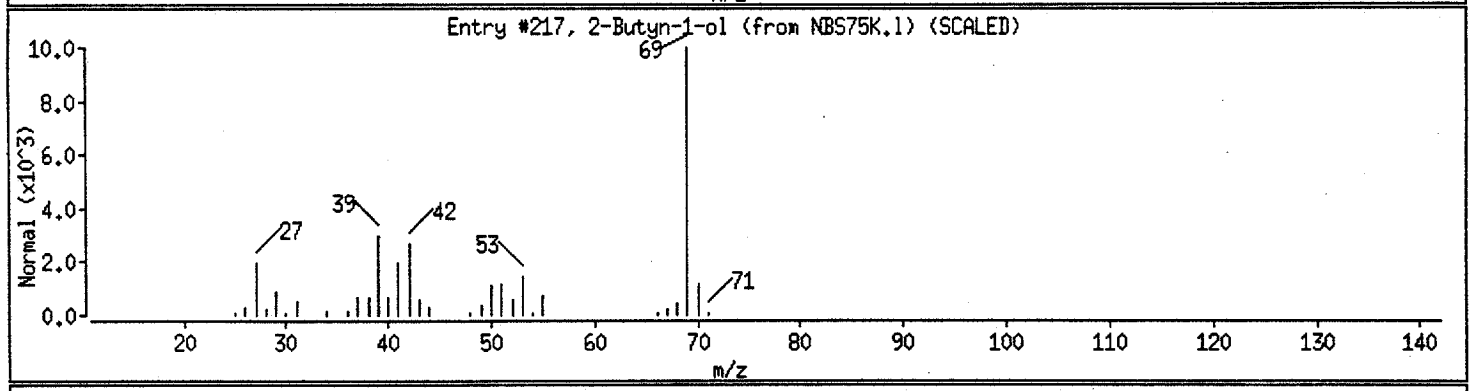


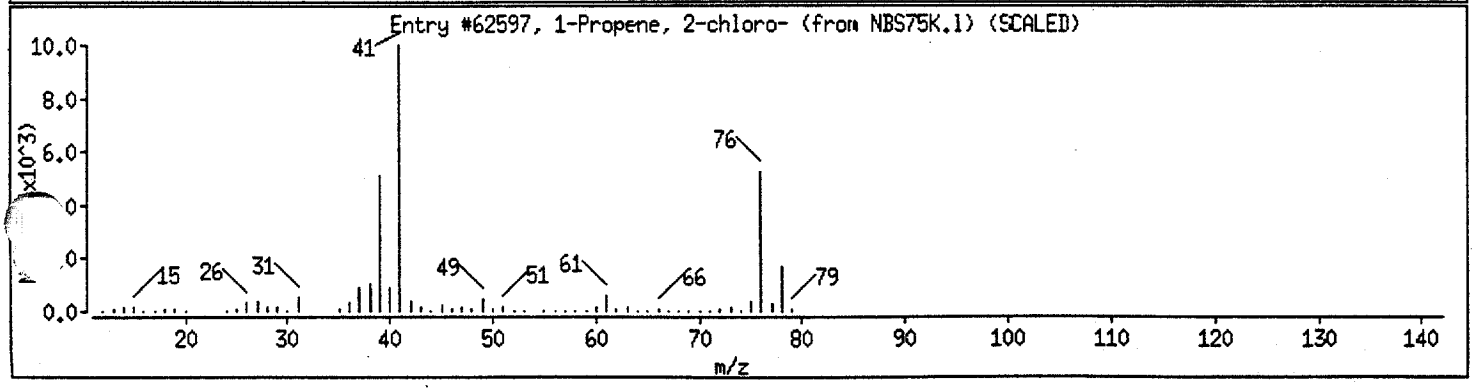
Data File: /chem/a900.i/d062894.b/d8759.d
Date : 28-JUN-94 20:27
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Butane, 1,3-dichloro-2-methyl-	23010-07-3	NBS75K.1	7242	38
2-Butyn-1-ol	764-01-2	NBS75K.1	217	12
1-Propene, 2-chloro-	557-98-2	NBS75K.1	62597	11



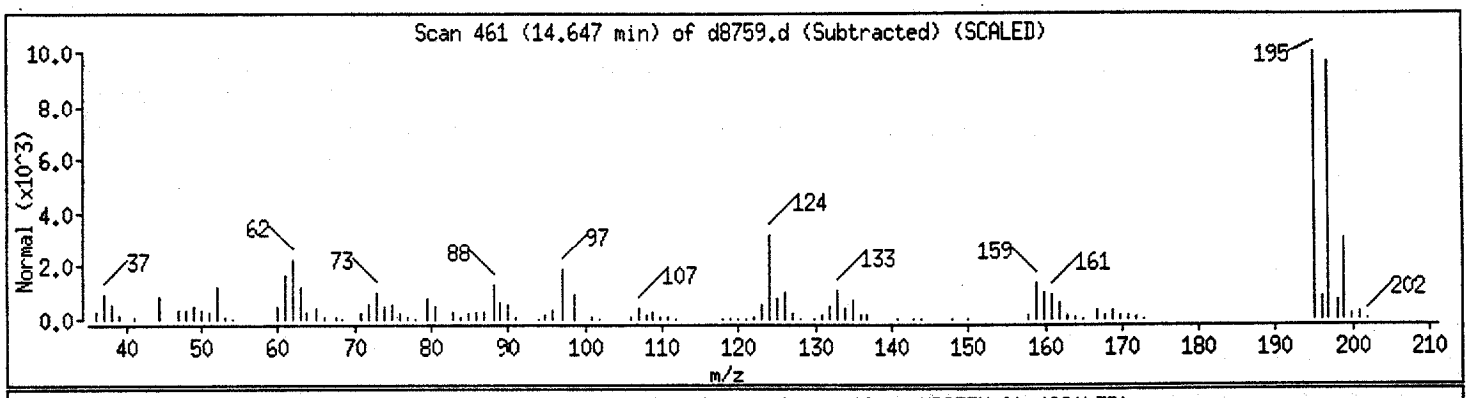


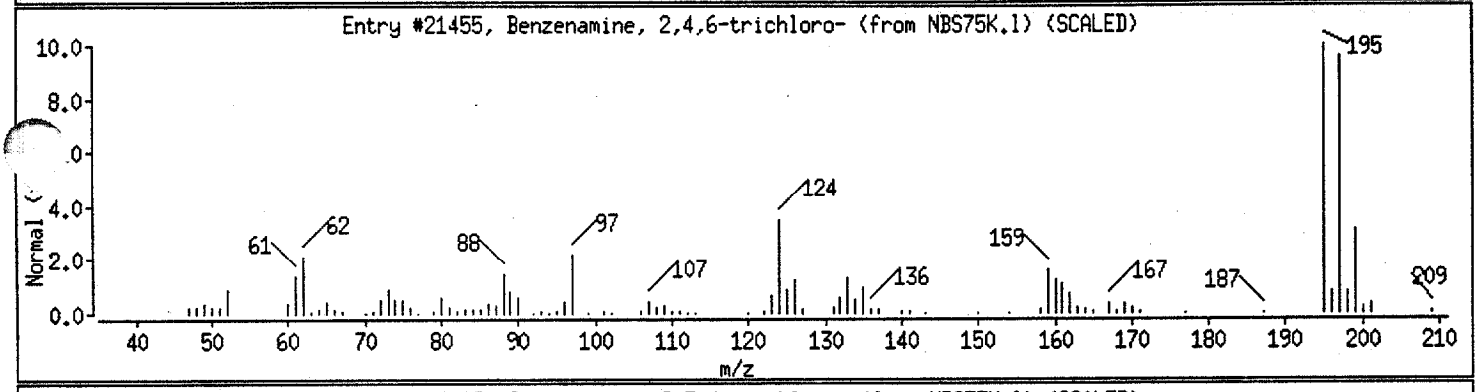


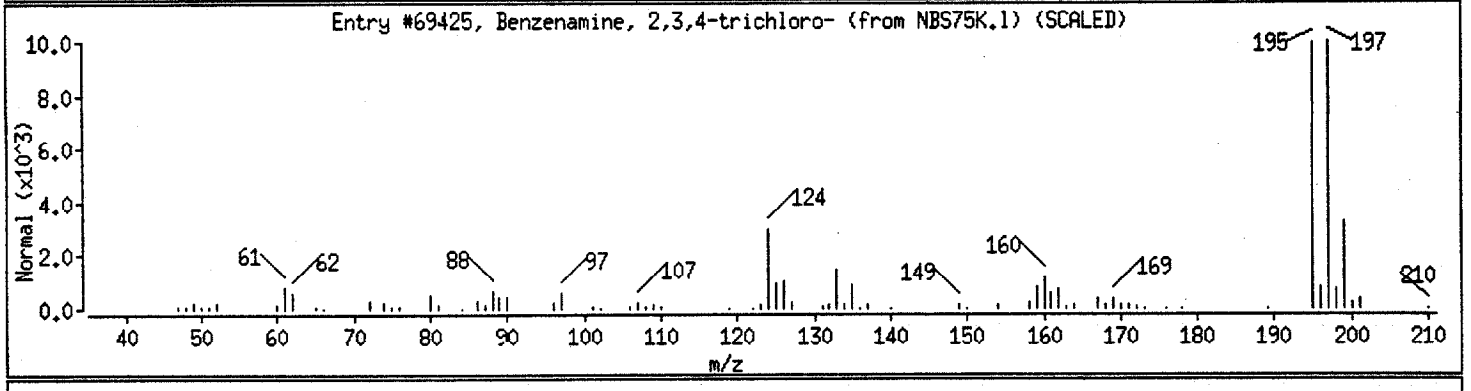


Data File: /chem/a900.i/d062894.b/d8759.d
Date : 28-JUN-94 20:27
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Benzenamine, 2,4,6-trichloro-	634-93-5	NBS75K.l	21455	99
Benzenamine, 2,3,4-trichloro-	634-67-3	NBS75K.l	69425	98







Data File: /chem/a900.i/d062894.b/d8759.d

Date : 28-JUN-94 20:27

Instrument : a900.i

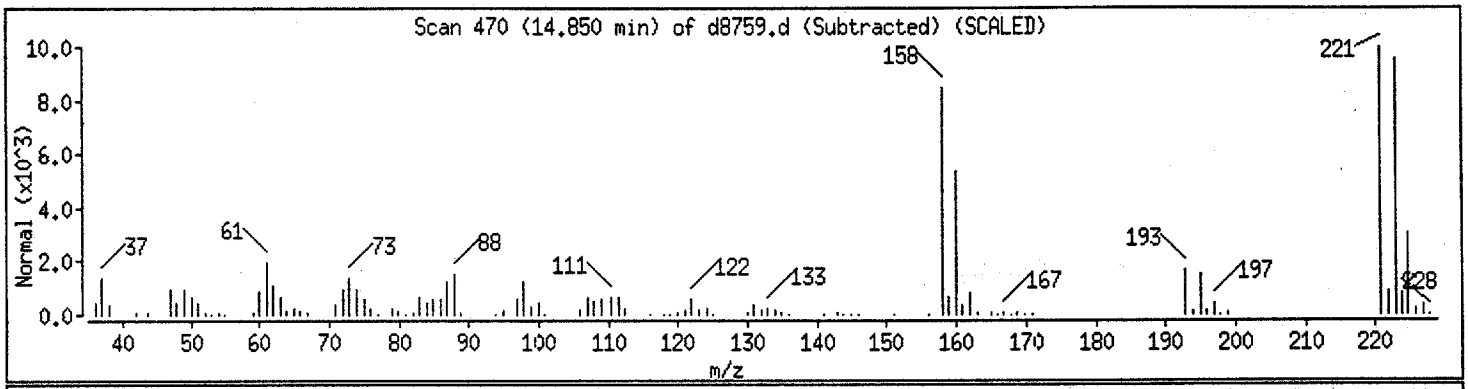
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
UNKNOWN				



Data File: /chem/a900.i/d062894.b/d8759.d

Date : 28-JUN-94 20:27

Instrument : a900.i

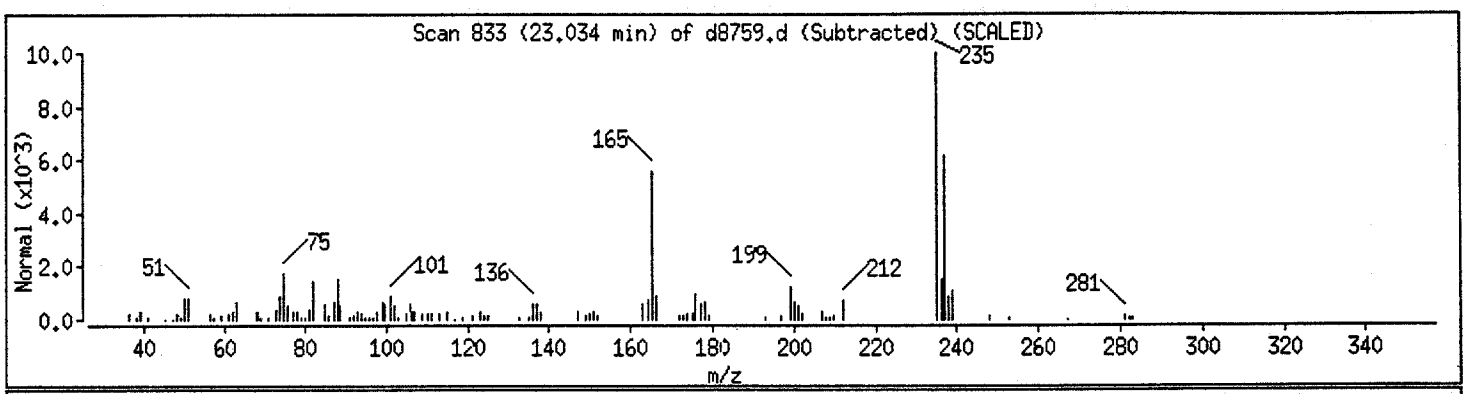
Sample ID :

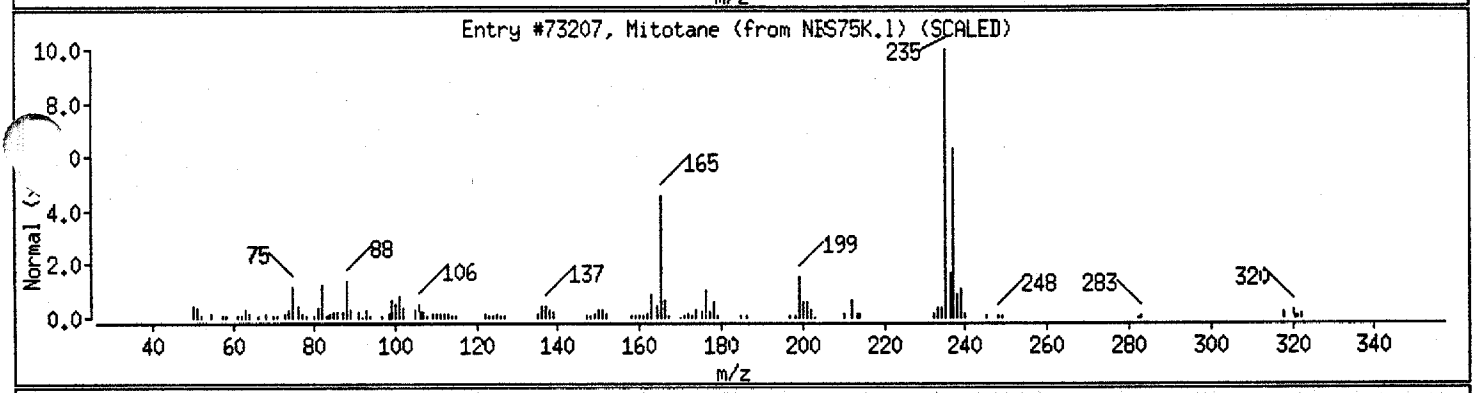
Column phase : J&W DB-5

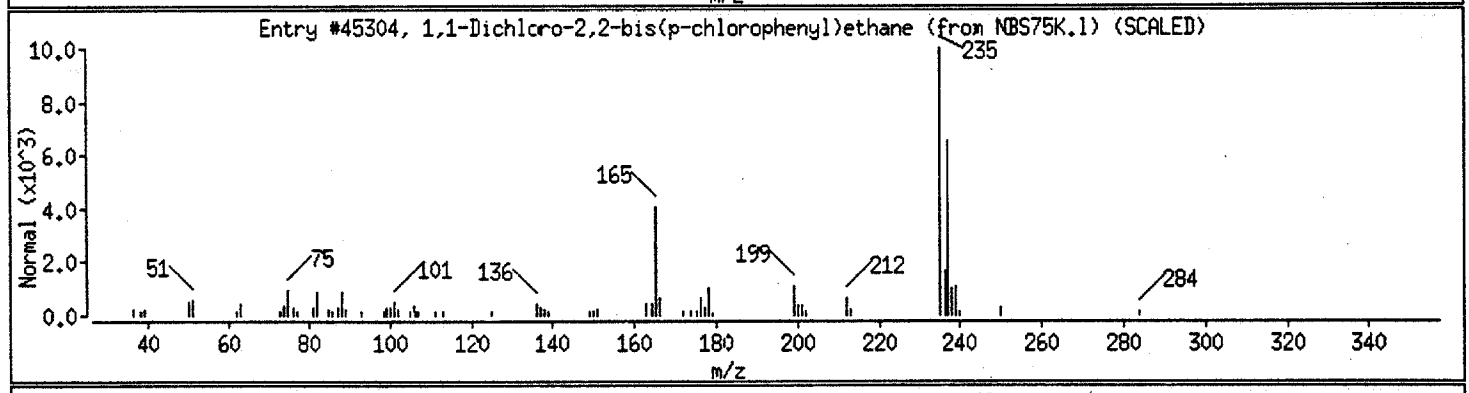
Column diameter : 0.25

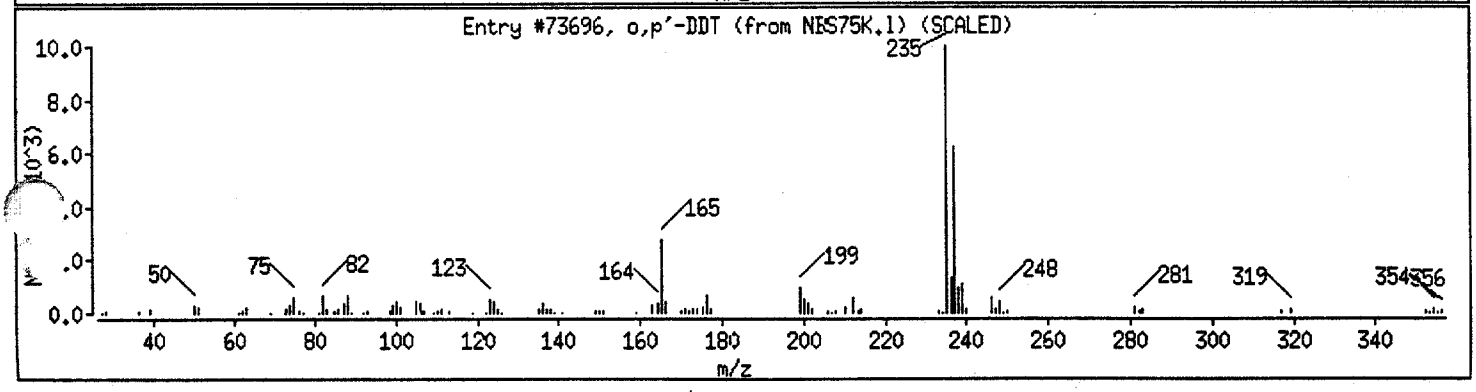
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Mitotane	53-19-0	NBS75K.1	73207	91
1,1-Dichloro-2,2-bis(p-chlorophenyl)etha	72-54-8	NBS75K.1	45304	87
o,p'-DDT	789-02-6	NBS75K.1	73696	80





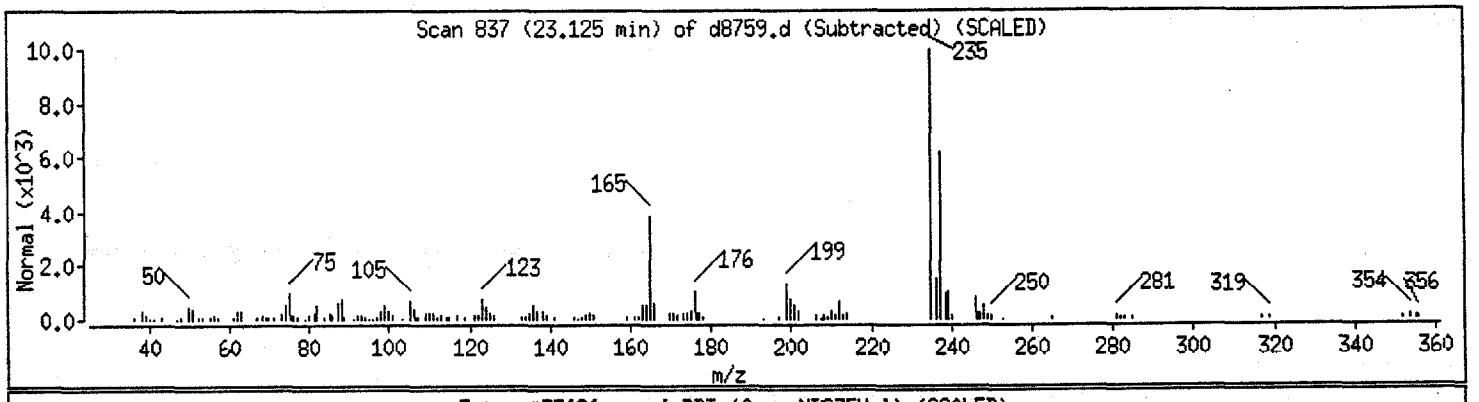


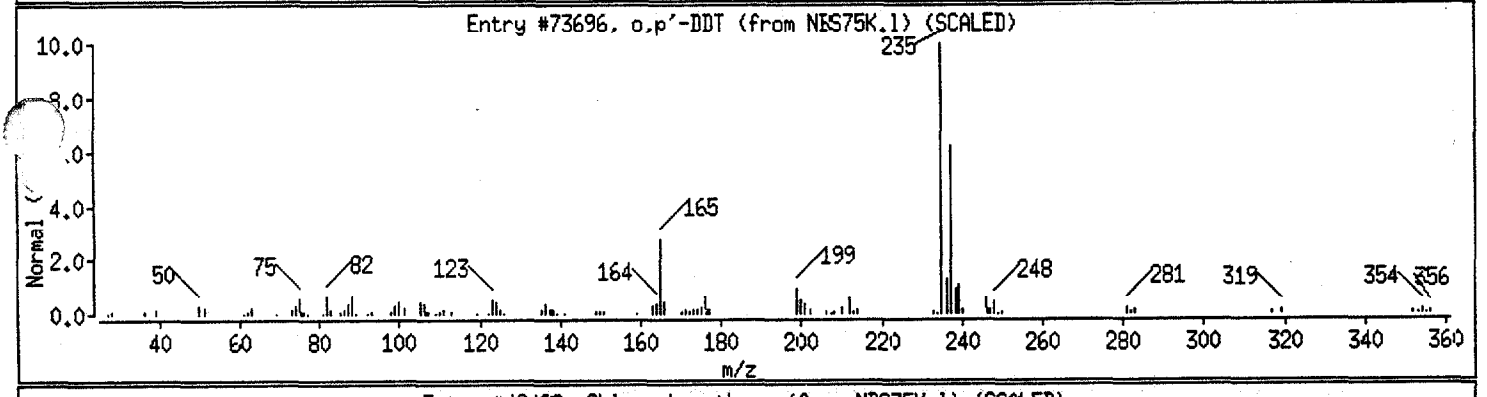


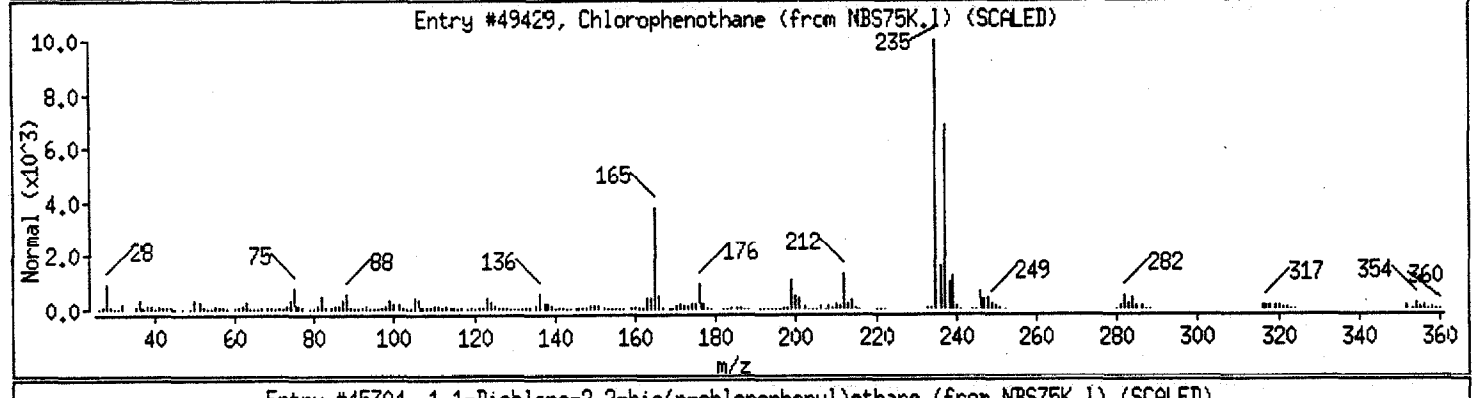
Data File: /chem/a900.i/d062894.b/d8759.d

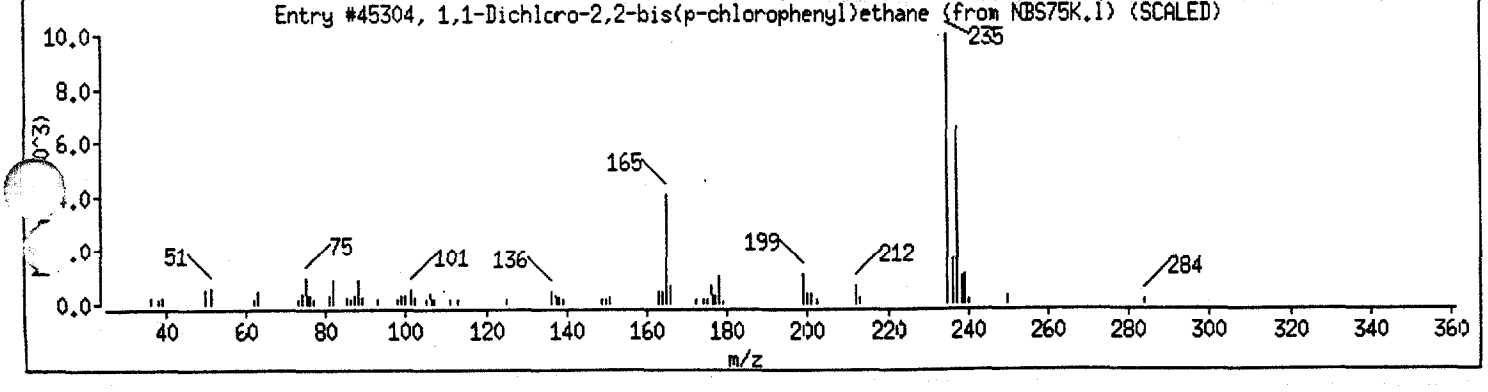
Date : 28-JUN-94 20:27
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
o,p'-DDT	789-02-6	NBS75K.1	73696	99
Chlorophenothane	50-29-3	NBS75K.1	49429	91
1,1-Dichloro-2,2-bis(p-chlorophenyl)etha	72-54-8	NBS75K.1	45304	91



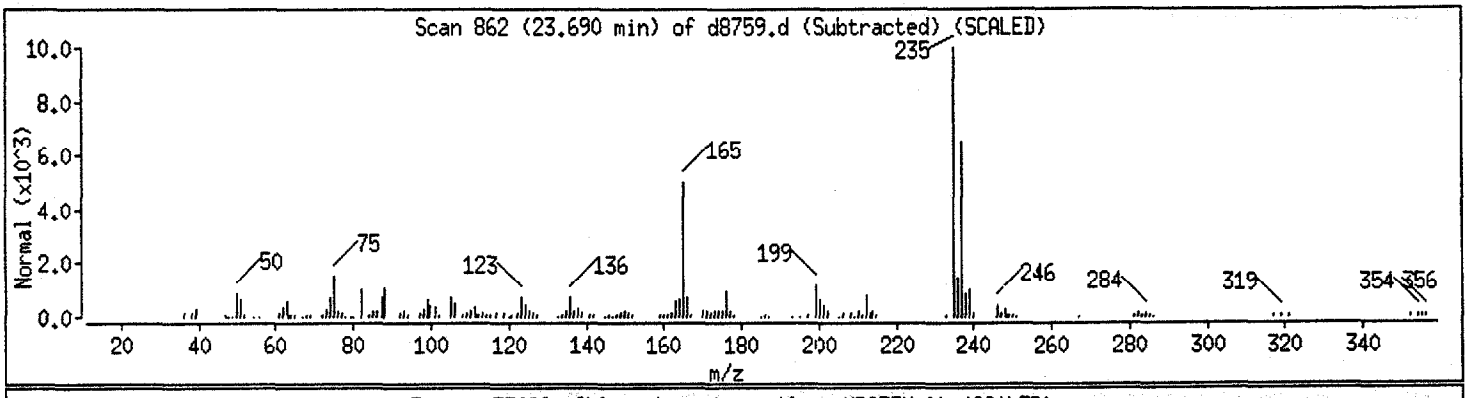


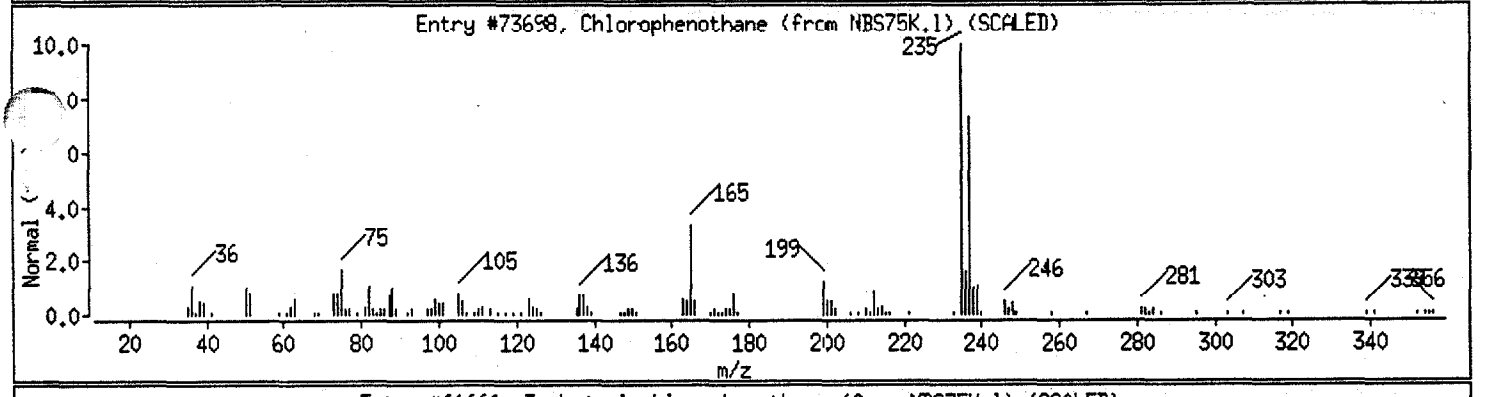


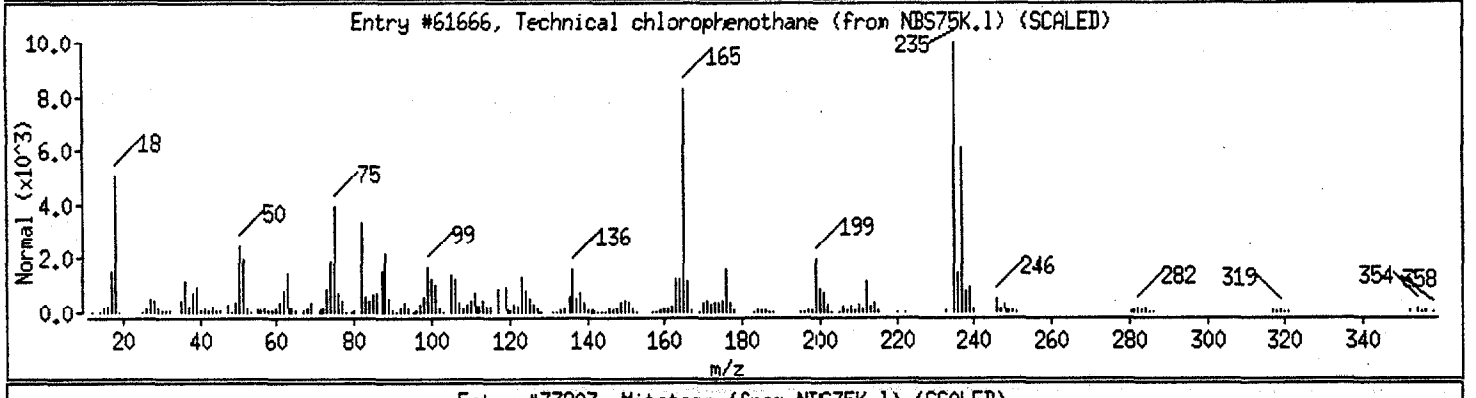


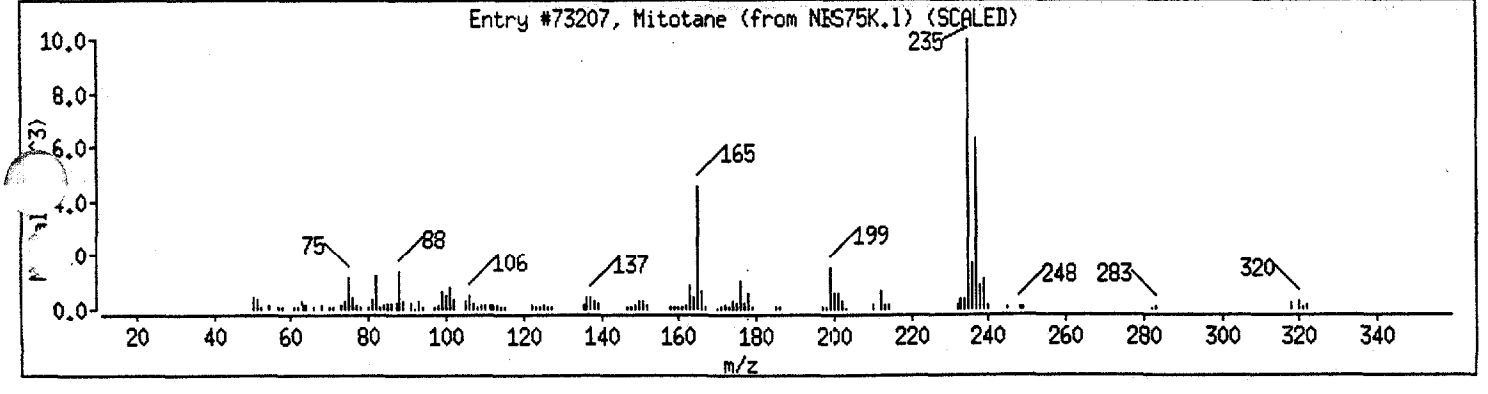
Data File: /chem/a900.i/d062894.b/d8759.d
Date : 28-JUN-94 20:27
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Chlorophenothane	50-29-3	NBS75K.1	73698	93
Technical chlorophenothane	8017-34-3	NBS75K.1	61666	91
Mitotane	53-19-0	NBS75K.1	73207	91









1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 0355

Lab Name: ASC	Contract: NEESA	CW021	
Lab Code: —	Case No.: —	SAS No.: —	SDG No.: CW017
Matrix: (soil/water) SOIL		Lab Sample ID: JM9438	
Sample wt/vol: 1.06 (g/mL) G		Lab File ID: D878E	
Level: (low/med) LOW		Date Received: CW2394	
% Moisture: NA decanted: (Y/N) N		Date Extracted: CW3C94	
Concentrated Extract Volume: 5000 (uL)		Date Analyzed: CW3094	
Injection Volume: 1.0 (uL)		Dilution Factor: 20	
GPC Cleanup: (Y/N) N	pH: NA		

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	991000	
111-44-4	bis(2-Chloroethyl)ether	943000	U
95-57-8	2-Chlorophenol		
541-73-1	1,3-Dichlorobenzene		
106-46-7	1,4-Dichlorobenzene		
95-50-1	1,2-Dichlorobenzene		
95-48-7	2-Methylphenol	4160000	
108-60-1	2,2'-oxybis(1-Chloropropane)	943000	U
106-44-5	4-Methylphenol	901000	J
621-64-7	N-Nitroso-di-n-propylamine	943000	U
67-72-1	Hexachloroethane		
98-95-3	Nitrobenzene		
78-59-1	Isophorone		
88-75-5	2-Nitrophenol		
105-67-9	2,4-Dimethylphenol	1170000	
111-91-1	bis(2-Chloroethoxy)methane	943000	U
120-83-2	2,4-Dichlorophenol	J	
120-82-1	1,2,4-Trichlorobenzene	J	
91-20-3	Naphthalene	5000000	
106-47-8	4-Chloroaniline	943000	U
87-68-3	Hexachlorobutadiene		
59-50-7	4-Chloro-3-methylphenol		
91-57-6	2-Methylnaphthalene	2190000	
77-47-4	Hexachlorocyclopentadiene	943000	U
88-06-2	2,4,6-Trichlorophenol		
95-95-4	2,4,5-Trichlorophenol		
91-58-7	2-Chloronaphthalene		
88-74-4	2-Nitroaniline		
131-11-3	Dimethylphthalate		
208-96-8	Acenaphthylene		
606-20-2	2,6-Dinitrotoluene		
99-09-2	3-Nitroaniline		
83-32-9	Acenaphthene		

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: CCC21

Lab Name: ASC   Contract: NY…

Lab Code: —   Case No.: —   SAS No.: —   SDG No.: CU617

Matrix: (soil/water) Soil   Lab Sample ID: JM9438

Sample wt/vol: 1.0 (g/mL) g   Lab File ID: D8788

Level: (low/med) Low   Date Received: 062394

% Moisture: NA   decanted: (Y/N) N   Date Extracted: 063094

Concentrated Extract Volume: 500 (uL)   Date Analyzed: 063094

Injection Volume: 1.0 (uL)   Dilution Factor: 20

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
51-28-5	2,4-Dinitrophenol	4720000	U
100-02-7	4-Nitrophenol	4720000	↓
132-64-9	Dibenzofuran	943000	↓
121-14-2	2,4-Dinitrotoluene	↓	↓
84-66-2	Diethylphthalate	↓	↓
7005-72-3	4-Chlorophenyl-phenylether	↓	↓
86-73-7	Fluorene	↓	↓
100-01-6	4-Nitroaniline	↓	↓
534-52-1	4,6-Dinitro-2-methylphenol	2360000	↓
86-30-6	N-Nitrosodiphenylamine (1)	1170000	
101-55-3	4-Bromophenyl-phenylether	943000	U
118-74-1	Hexachlorobenzene	↓	↓
87-86-5	Pentachlorophenol	↓	↓
85-01-8	Phenanthrene	342000	J
120-12-7	Anthracene	943000	U
86-74-8	Carbazole	↓	↓
84-74-2	Di-n-butylphthalate	215000	BJ
206-44-0	Fluoranthene	943000	U
129-00-0	Pyrene	↓	↓
85-68-7	Butylbenzylphthalate	↓	↓
91-94-1	3,3'-Dichlorobenzidine	↓	↓
56-55-3	Benzo(a)anthracene	↓	↓
218-01-9	Chrysene	↓	↓
117-81-7	bis(2-Ethylhexyl)phthalate	↓	↓
117-84-0	Di-n-octylphthalate	↓	↓
205-99-2	Benzo(b)fluoranthene	↓	↓
207-08-9	Benzo(k)fluoranthene	↓	↓
50-32-8	Benzo(a)pyrene	↓	↓
193-39-5	Indeno(1,2,3-cd)pyrene	↓	↓
53-70-3	Dibenz(a,h)anthracene	↓	↓
191-24-2	Benzo(g,h,i)perylene	↓	↓

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ASC Contract: NUSA CWU21

Lab Code: — Case No.: — SAS No.: — SDG No.: CWU7

Matrix: (soil/water) Soil Lab Sample ID: FW9438

Sample wt/vol: 10.0 (g/mL) G Lab File ID: D8788

Level: (low/med) LOW Date Received: 06/23/94

% Moisture: NA decanted: (Y/N) N Date Extracted: 06/30/94

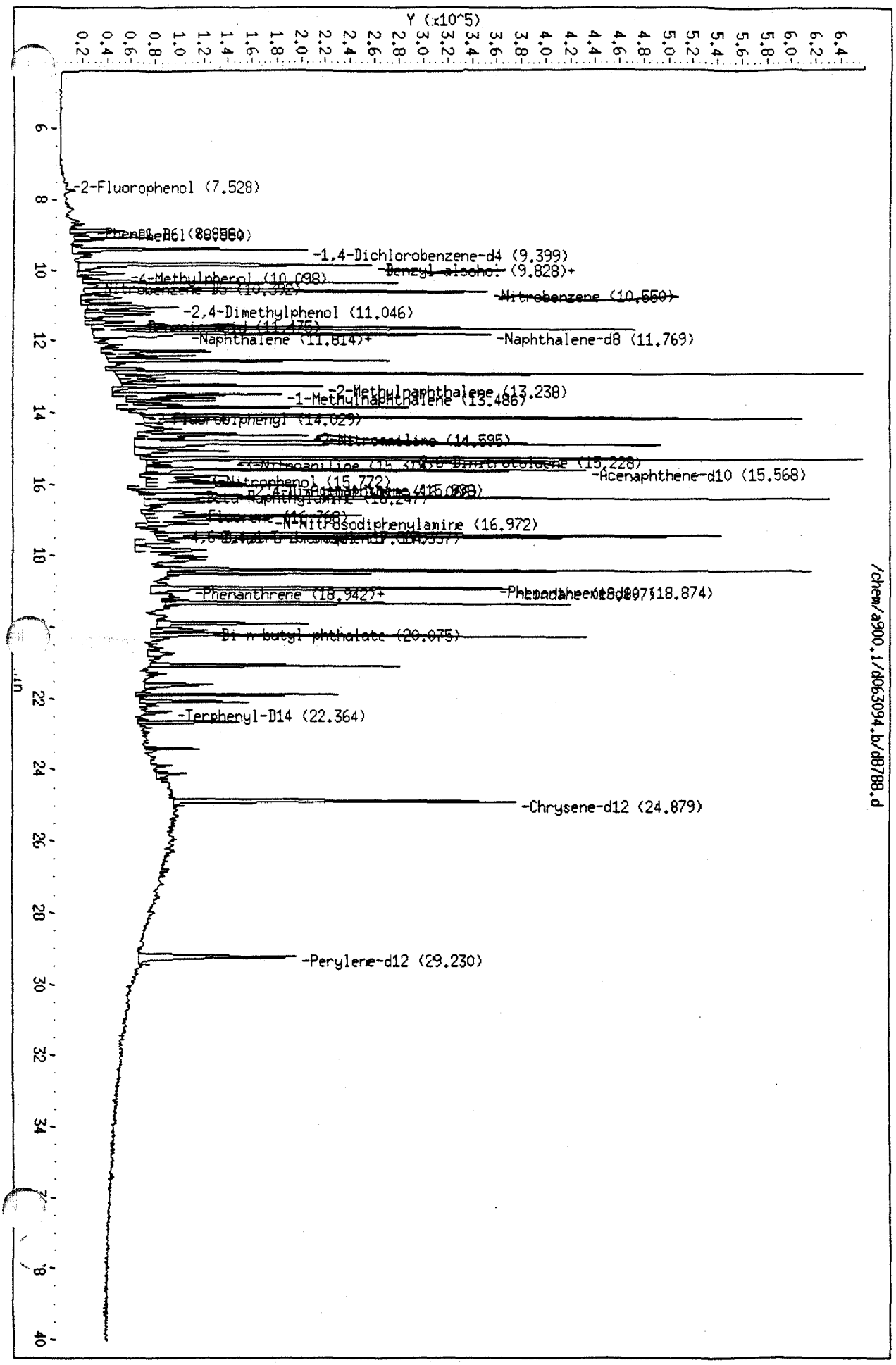
Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/30/94

Injection Volume: 1.0 (uL) Dilution Factor: 20

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

Number TICs found: 20 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	629-97-0	Docosane	21.865	1500	J
2.	112-40-3	Dodecane	11.611	2570	
3.	3891-98-3	Dodecane, 2,6,10-trimethyl	13.826	1960	
4.	1002-84-2	Eicosane	19.271	2760	
5.	629-94-7	Heneicosane	21.049	2150	
6.	629-78-7	Heptadecane	17.380	4860	
7.	544-76-3	Hexadecane	16.338	5490	
8.	530-50-7	Hydrazine, 1,1-diphenyl-	16.972	1640	
9.	2131-42-2	Naphthalene, 1,4,5-trimethyl-	16.451	1220	
10.	629-92-5	Nonadecane	19.305	3390	
11.	5911-04-6	Nonane, 3-methyl-	12.537	1550	
12.	593-45-3	Octadecane	18.376	3880	
13.	629-62-9	Pentadecane	15.251	5920	
14.	1002-84-2	Pentadecanoic Acid	19.871	1640	
15.	629-59-4	Tetradecane	14.097	4980	
16.	629-50-5	Tridecane	12.896	3320	
17.	1120-21-4	Undecane	10.324	3730	
18.	530-50-7	Undecane, 3,5-dimethyl-	16.859	2230	
19.	—	unknown	—	6820	
20.	—	unknown	—	3550	
21.	17312-81-1	DL 31/5/94			
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					



Data File: /chem/a900.i/d063094.b/d8788.d
Date : 30-JUN-94 15:16
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Volume Injected (uL) : 1.0

C6621

Column diameter : 0.25

Data File: /chem/a900.i/d063094.b/d8788.d
Report Date: 04-Jul-1994 12:49

Analytical Services Corp.

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/a900.i/d063094.b/d8788.d
Lab. Id. : Quant Type: ISTD
Inj Date : 30-JUN-94 15:16 Autotune Date: {
Operator : Tom Inst ID: a900.i
Smp Info : 15226N-C6621
Misc Info : JM9438C,N4C40854,S:M1,1.06,5:20, BTL#
Comment :
Method : /chem/a900.i/d063094.b/bna8270d.m
Meth Date : 04-Jul-1994 12:45 tom
Cal Date : 30-JUN-94 13:59 Cal File: d8787.d
Als bottle: 0
Dil Factor: 1.000 Target Version: Target 3.00
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: WATER

7.6.94

		Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
	8	2-Fluorophenol	112.00	7.528	(0.801)	7397	3.68	3.68(aR)
	10	Phenol-D6	99.00	8.858	(0.942)	14132	5.26	5.26(aR)
	11	Phenol	94.00	8.880	(0.945)	35594	10.5	10.5(Q)
*	17	1,4-Dichlorobenzene-d4	152.00	9.399	(1.000)	64207	40.0	
	19	Benzyl alcohol	108.00	9.828	(1.046)	103228	66.7	66.7(TAQ)
	21	2-Methylphenol	108.00	9.828	(1.046)	103222	44.1	44.1
	23	4-Methylphenol	108.00	10.098	(1.074)	22893	9.55	9.55(a)
$	27	Nitrobenzene-D5	82.00	10.392	(0.883)	7857	3.10	3.10(aR)
	28	Nitrobenzene	77.00	10.550	(0.896)	67426	25.5	25.5(Q)
	30	2,4-Dimethylphenol	107.00	11.046	(0.939)	28249	12.4	12.4
	32	Benzoic acid	122.00	11.475	(0.975)	5586	5.15	5.15(aAQ)
*	37	Naphthalene-d8	136.00	11.769	(1.000)	268315	40.0	
	38	Naphthalene	128.00	11.814	(1.004)	32977	5.30	5.30(a)
	39	4-Chloroaniline	127.00	11.814	(1.004)	5404	2.08	2.08(aQ)
	45	2-Methylnaphthalene	142.00	13.238	(1.125)	96374	23.2	23.2
	46	1-Methylnaphthalene	142.00	13.486	(1.435)	56099	13.5	13.5(A)
$	51	2-Fluorobiphenyl	172.00	14.029	(0.901)	9869	2.28	2.28(aR)
	53	2-Nitroaniline	65.00	14.595	(0.937)	1997	1.07	1.07(aQ)
	55	2,6-Dinitrotoluene	165.00	15.228	(0.978)	1460	1.07	1.07(a)
	57	3-Nitroaniline	138.00	15.319	(0.984)	1341	1.04	1.04(a)
*	58	Acenaphthene-d10	164.00	15.568	(1.000)	179962	40.0	
	60	Acenaphthene	153.00	15.998	(1.028)	7114	1.59	1.59(TaQ)
	61	4-Nitrophenol	109.00	15.772	(1.013)	858	1.95	1.95(aQ)
	62	2,4-Dinitrotoluene	165.00	16.066	(1.032)	2009	1.14	1.14(aQ)
	65	Beta-Naphthylamine	143.00	16.247	(1.044)	2249	2.15	2.15(aAQ)
	69	Fluorene	166.00	16.768	(1.077)	7115	1.40	1.40(a)
	71	4,6-Dinitro-o-cresol	198.00	17.334	(0.918)	1575	1.80	1.80(TaQ)
	72	N-Nitrosodiphenylamine	169.00	16.972	(0.899)	44236	12.4	12.4(Q)
$	74	2,4,6-Tribromophenol	330.00	17.357	(1.115)	2865	3.76	3.76(aR)

Data File: /chem/a900.i/d063094.b/d8788.d
Report Date: 04-Jul-1994 12:49

Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
79 Lindane	183.00	18.897	(1.001)	8925	11.5	11.5(Q)
* 81 Phenanthrene-d10	188.00	18.874	(1.000)	294616	40.0	
82 Phenanthrene	178.00	18.942	(1.004)	24313	3.63	3.63(a)
83 Anthracene	178.00	18.942	(1.004)	24313	3.45	3.45(a)
85 Di-n-butyl phthalate	149.00	20.075	(1.064)	18224	2.28	2.28(a)
$ 90 Terphenyl-D14	244.00	22.364	(0.899)	14983	2.40	2.40(aR)
* 99 Chrysene-d12	240.00	24.879	(1.000)	296699	40.0	
* 105 Perylene-d12	264.00	29.230	(1.000)	203644	40.0	

QC Flag Legend

T - Target compound detected outside RT window.
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/a900.i/d063094.b/d8788.d

Date : 30-JUN-94 15:16

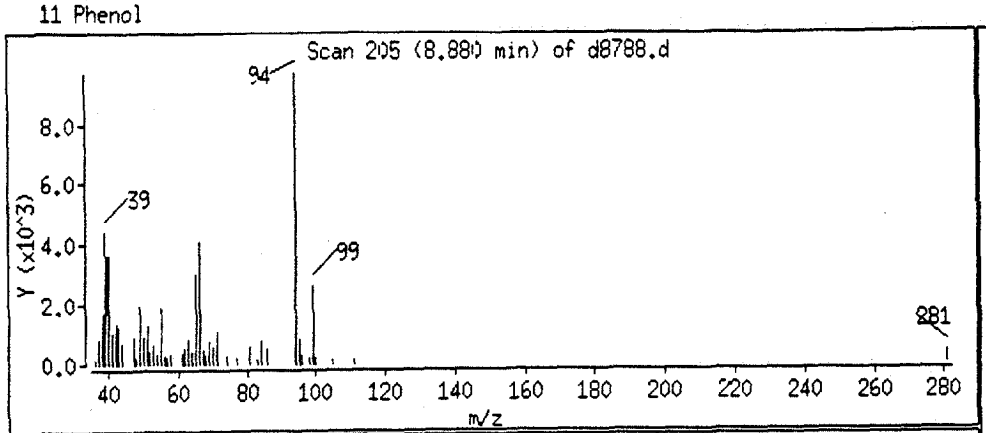
Instrument : a900.i

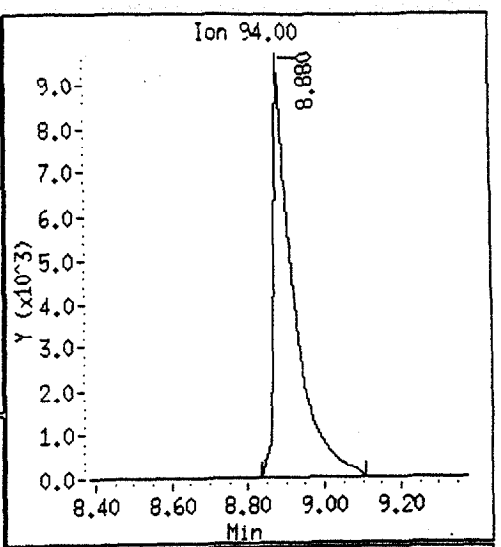
Sample ID :

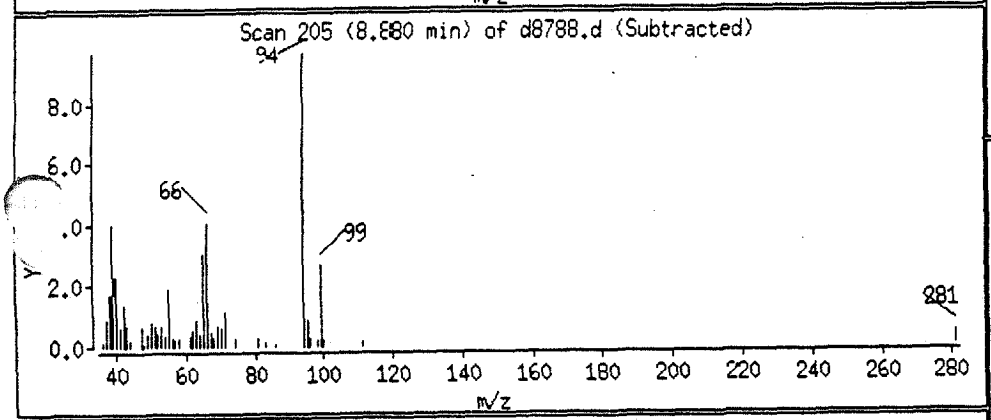
Column phase : J&W DB-5 Column diameter : 0.25

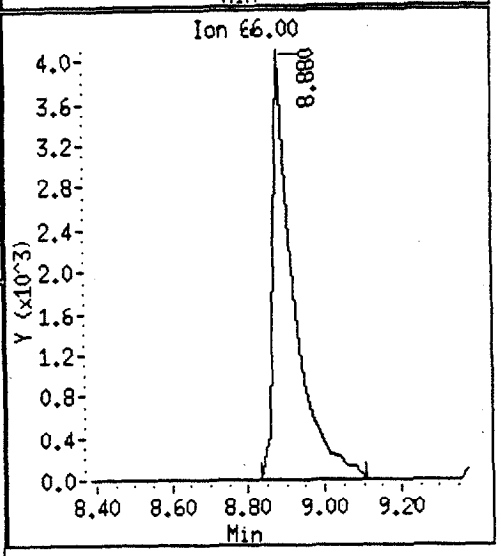
Volume Injected (uL) : 1.0

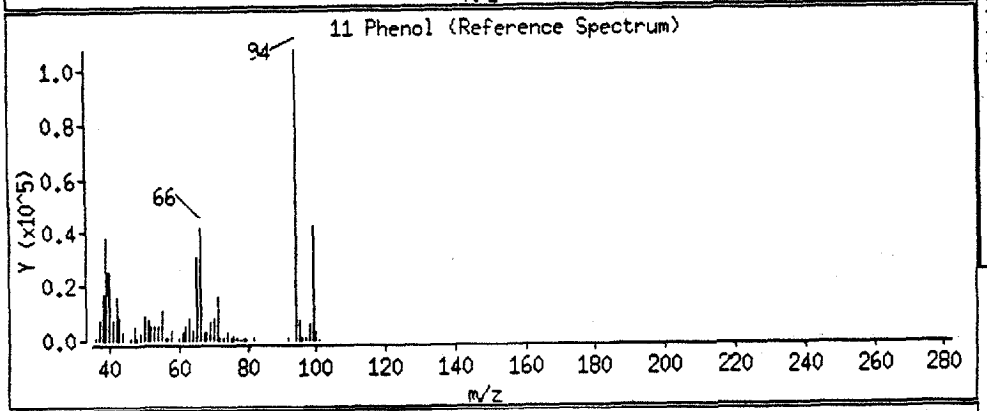
11 Phenol

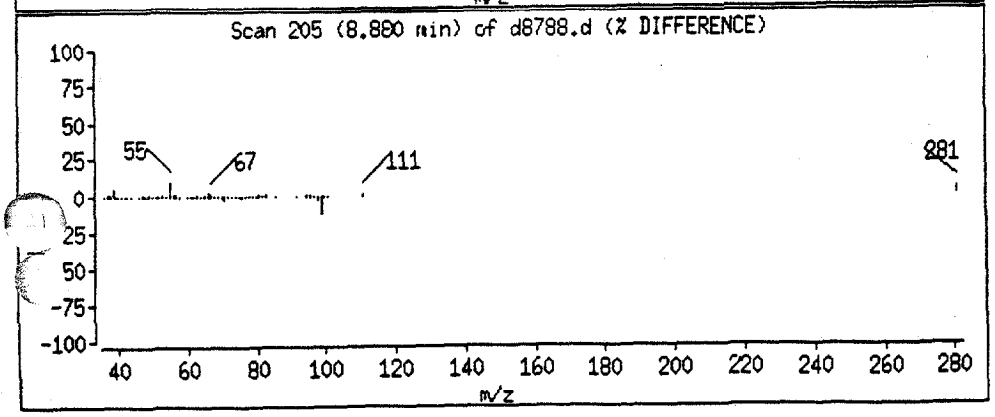












Data File: /chem/a900.i/d063094.b/d8788.d

Date : 30-JUN-94 15:16

Instrument : a900.i

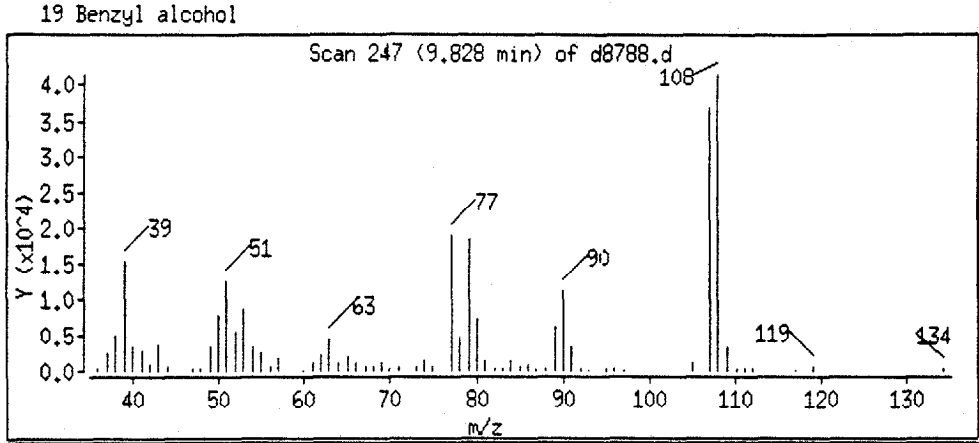
Sample ID :

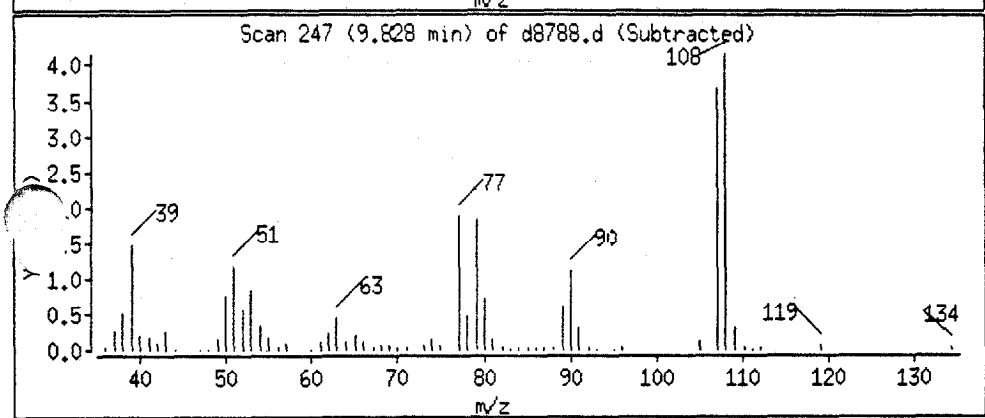
Column phase : J&W DB-5

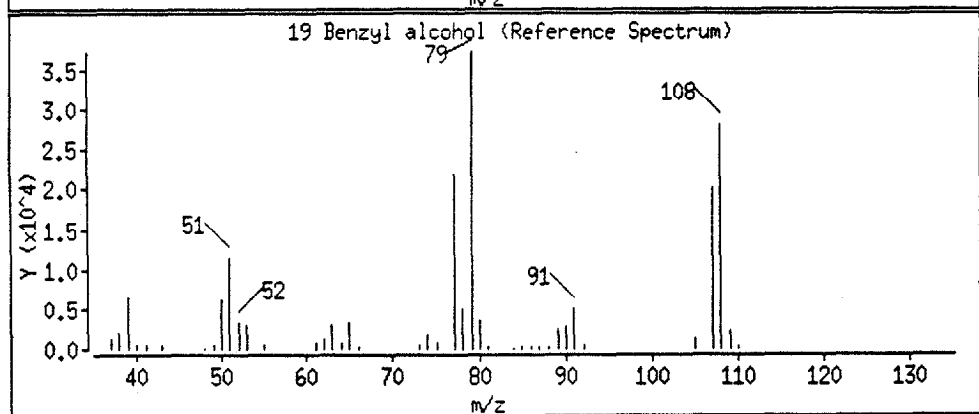
Column diameter : 0.25

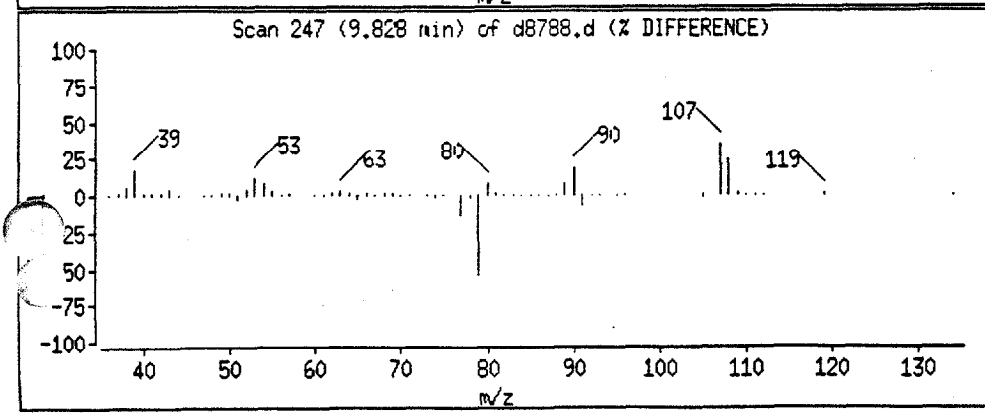
Volume Injected (uL) : 1.0

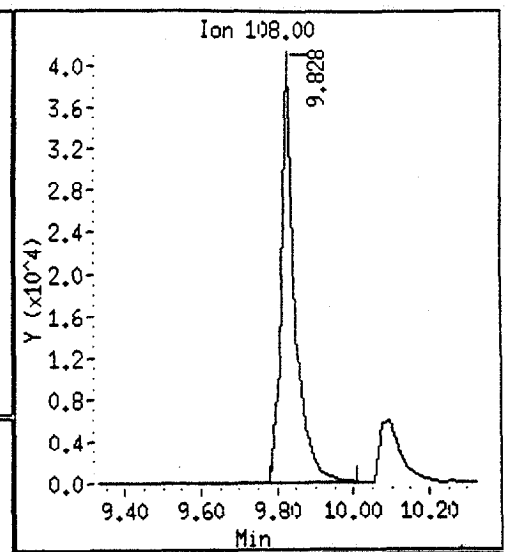
19 Benzyl alcohol

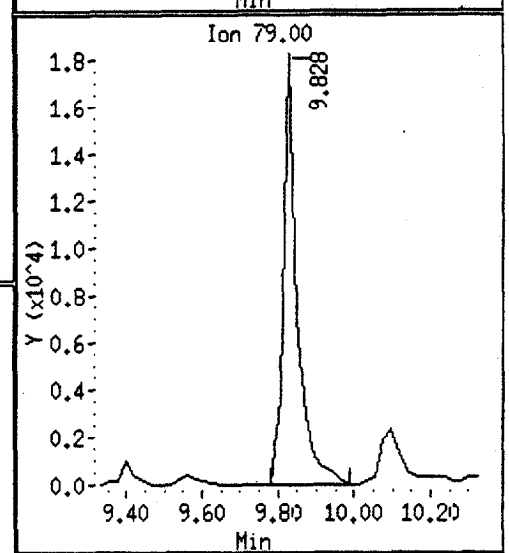


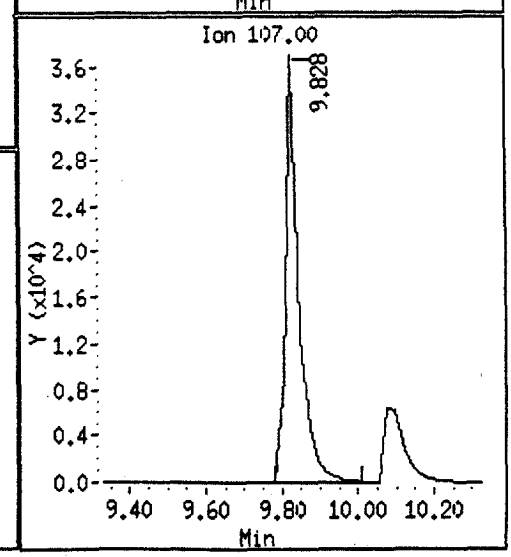












Data File: /chem/a900.i/d063094.b/d8788.d

Date : 30-JUN-94 15:16

Instrument : a900.i

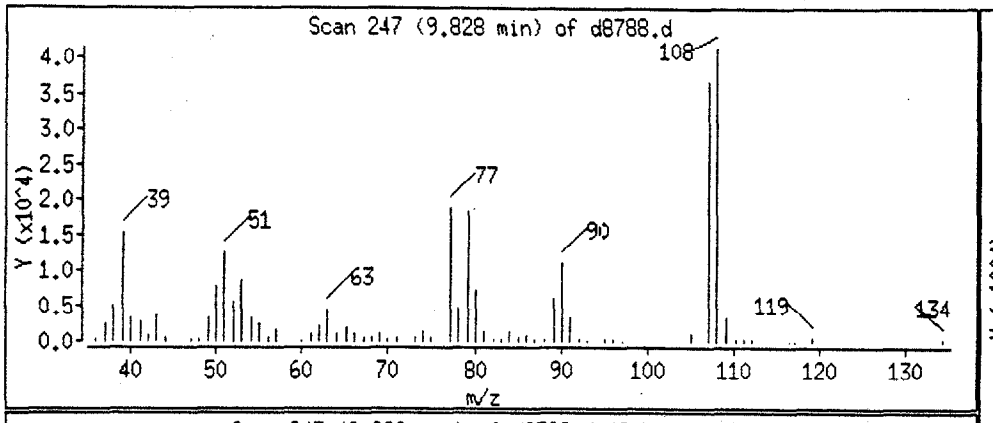
Sample ID :

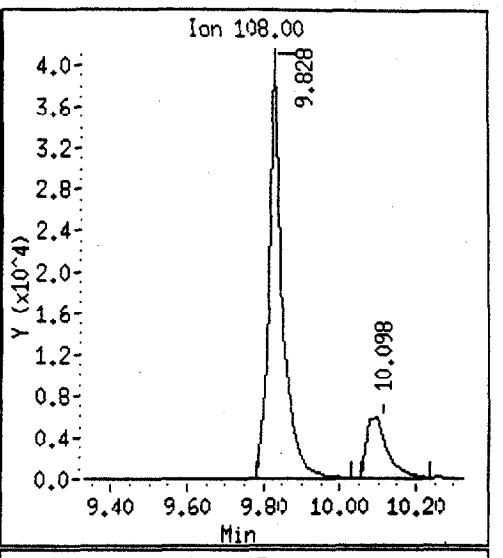
Column phase : J&W DB-5

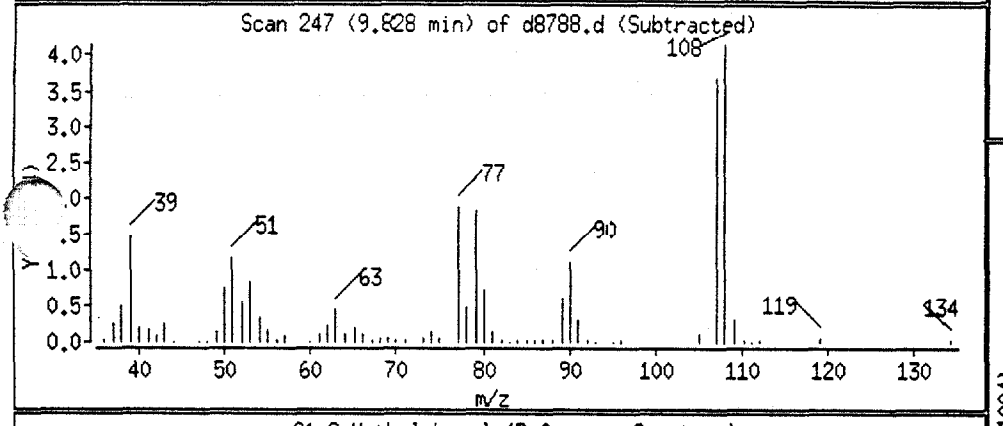
Column diameter : 0.25

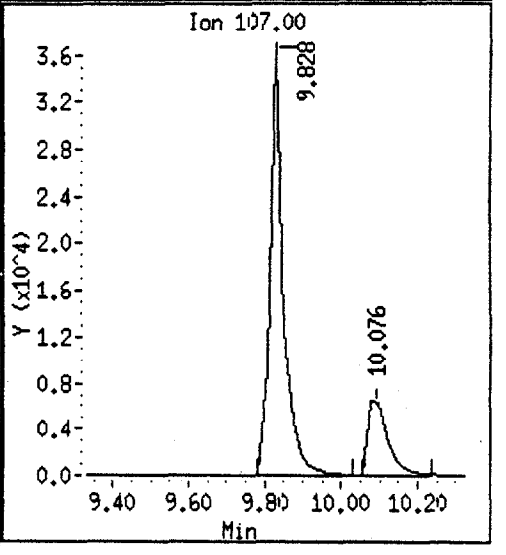
Volume Injected (uL) : 1.0

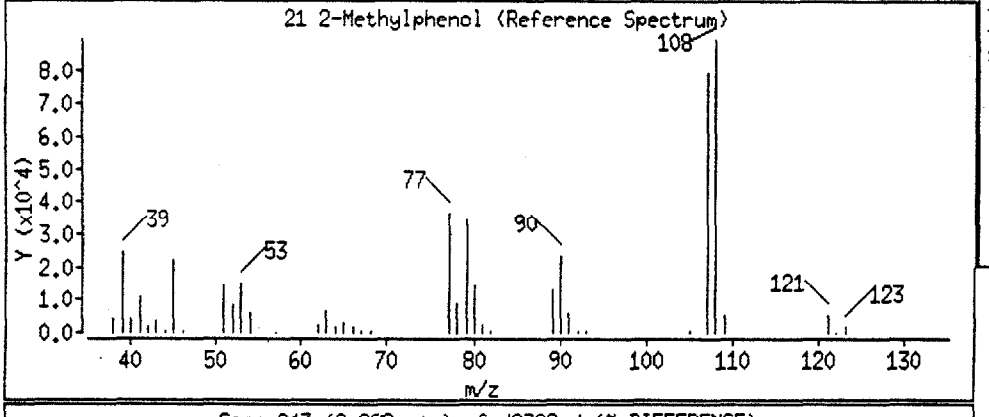
21 2-Methylphenol

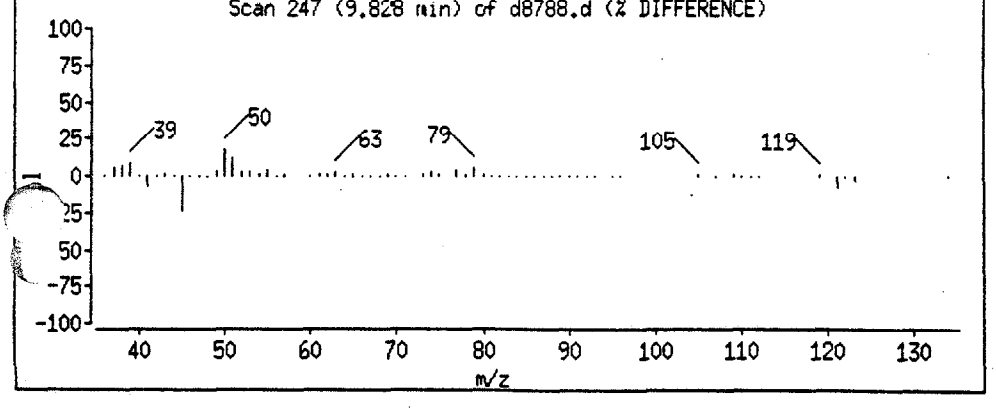












Data File: /chem/a900.i/d063094.b/d8788.d

Date : 30-JUN-94 15:16

Instrument : a900.i

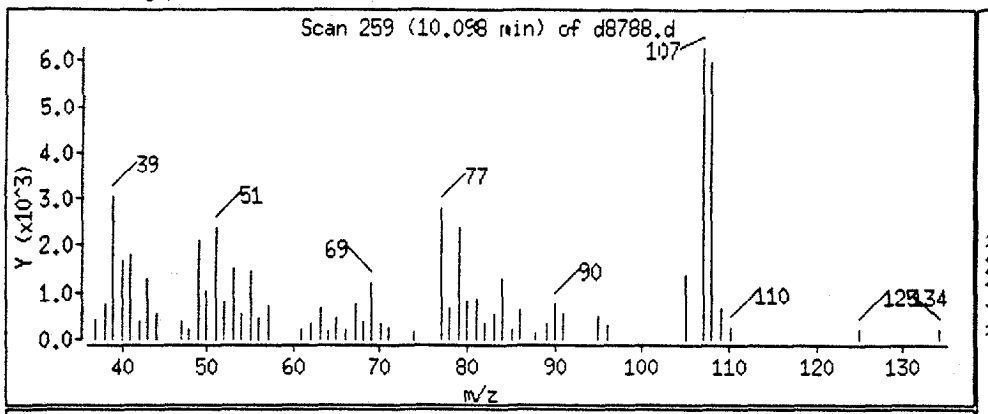
Sample ID :

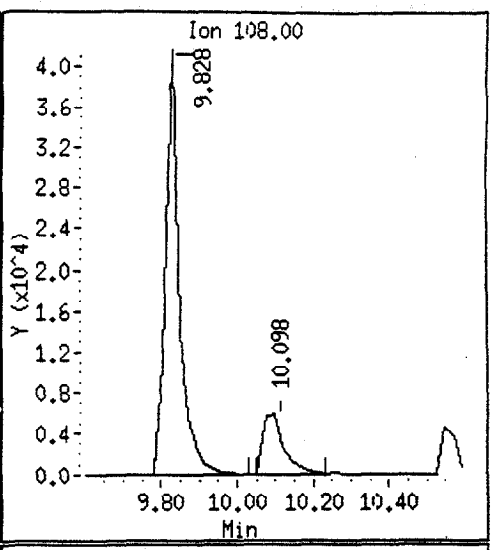
Column phase : J&W DB-5

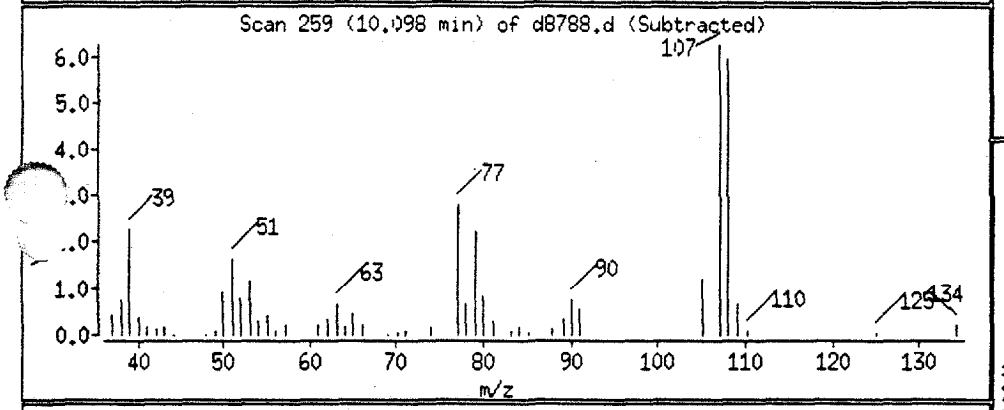
Column diameter : 0.25

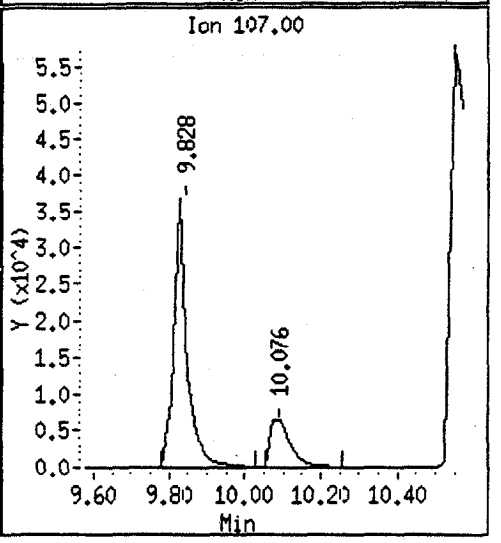
Volume Injected (uL) : 1.0

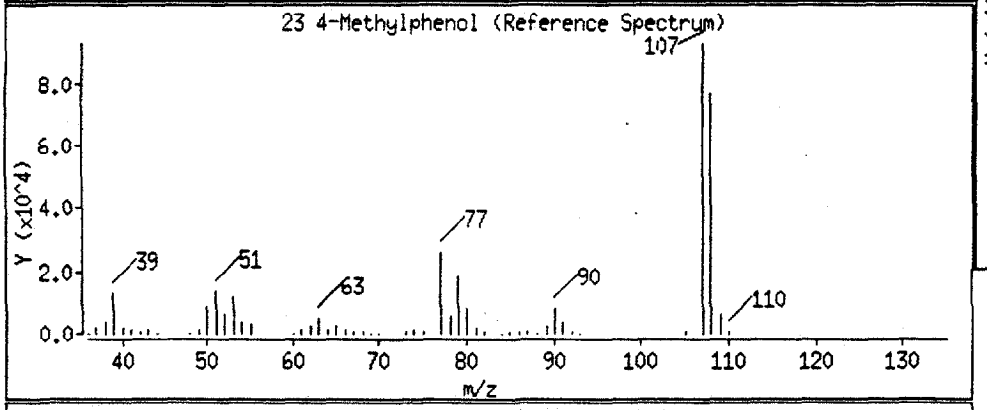
23 4-Methylphenol

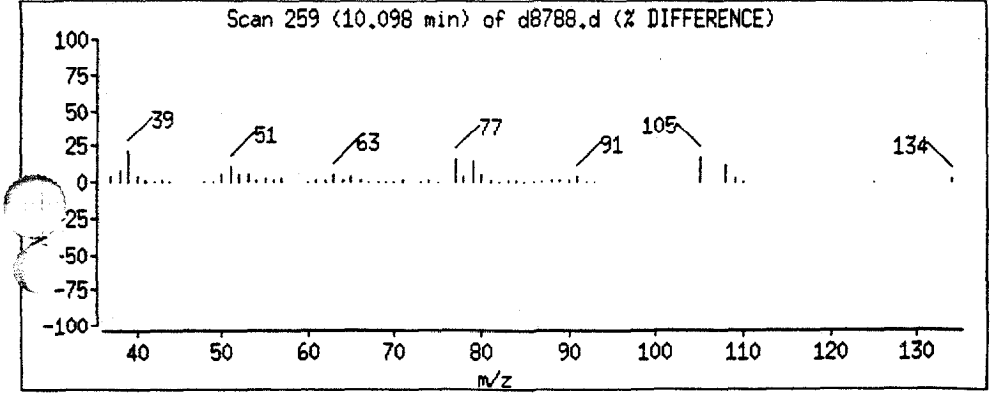












Data File: /chem/a900.i/d063094.b/d8788.d

Date : 30-JUN-94 15:16

Instrument : a900.i

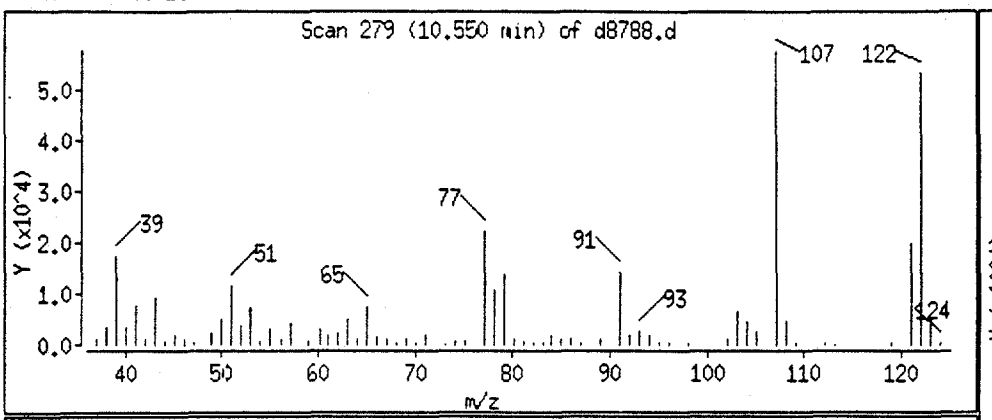
Sample ID :

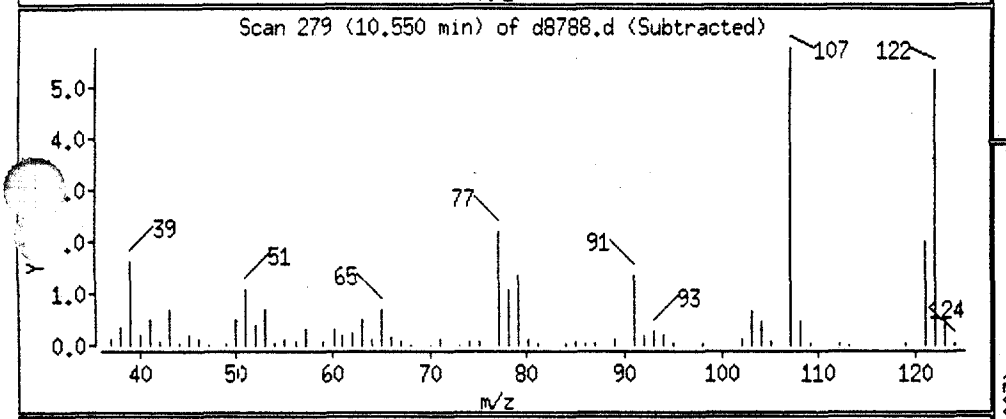
Column phase : J&W DB-5

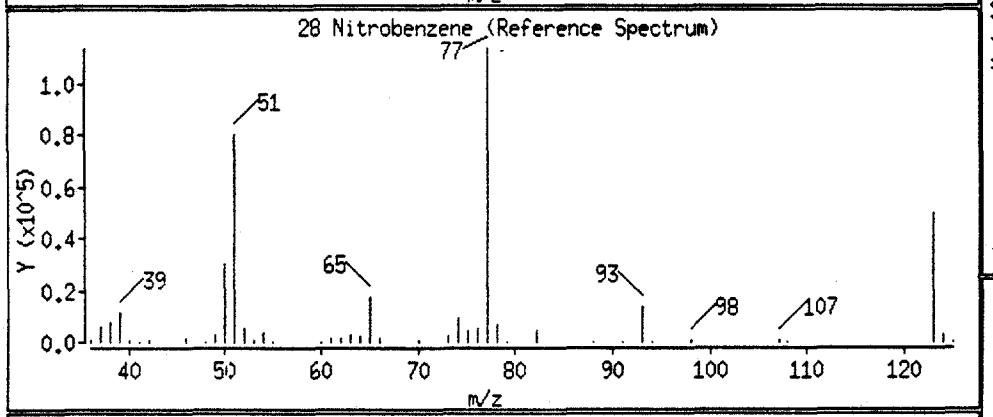
Column diameter : 0.25

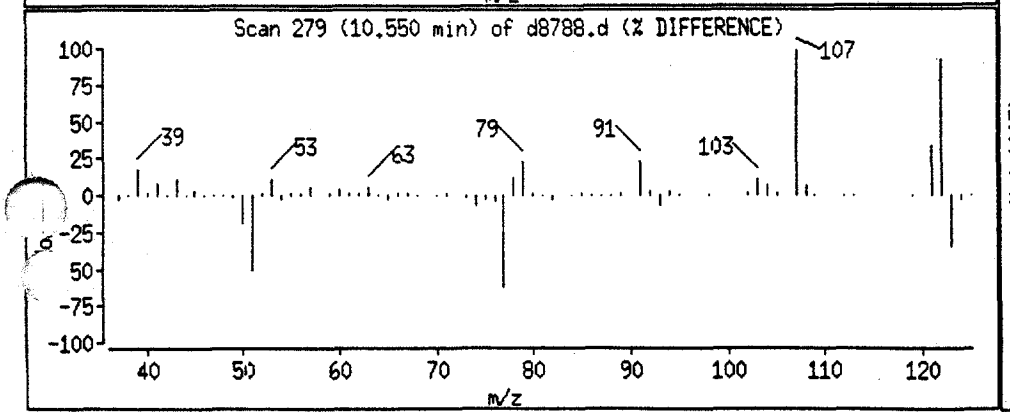
Volume Injected (uL) : 1.0

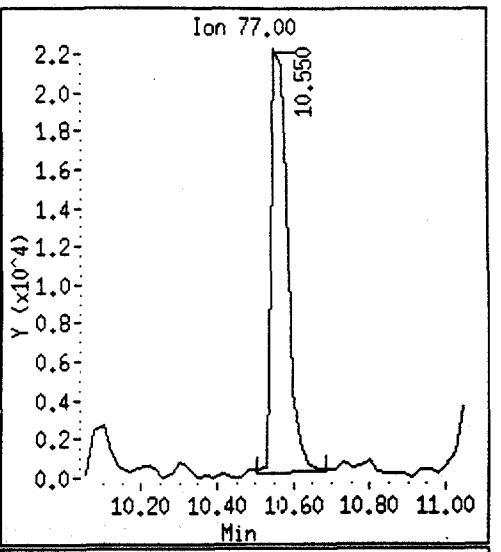
28 Nitrobenzene

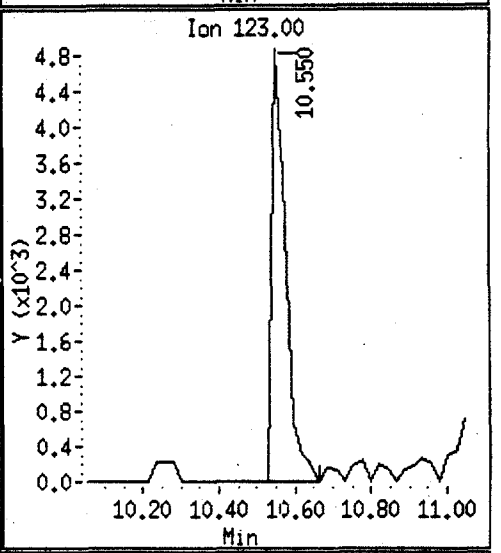


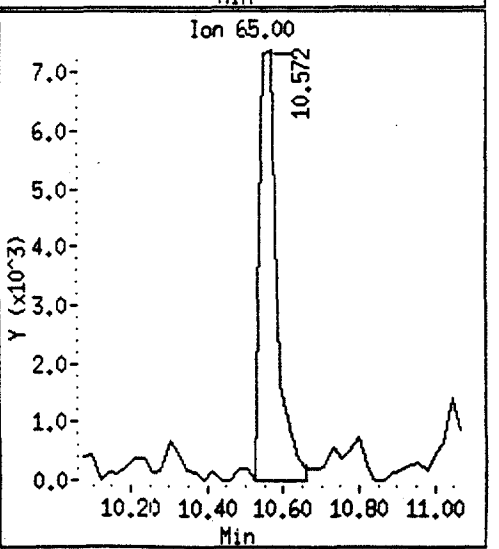












Data File: /chem/a900.i/d063094.b/d8788.d

Date : 30-JUN-94 15:16

Instrument : a900.i

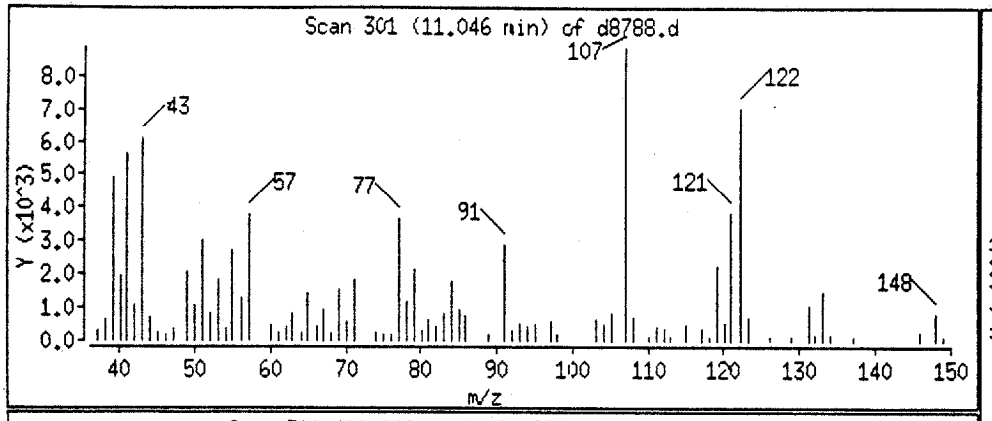
Sample ID :

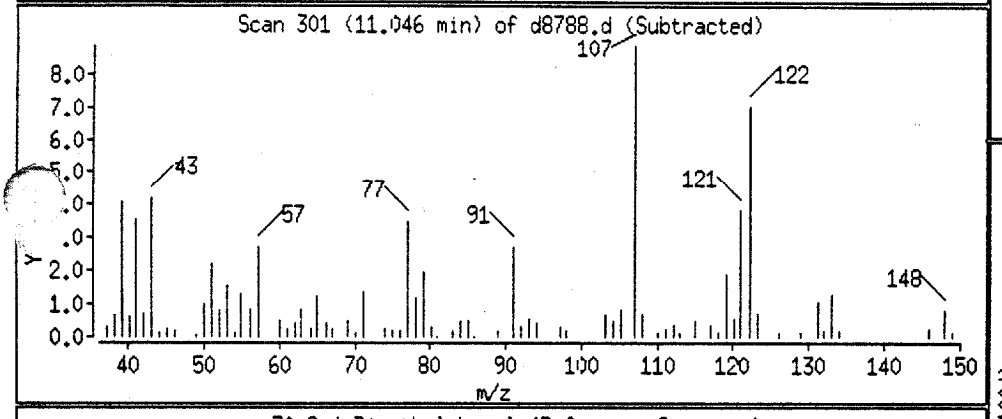
Column phase : J&W DB-5

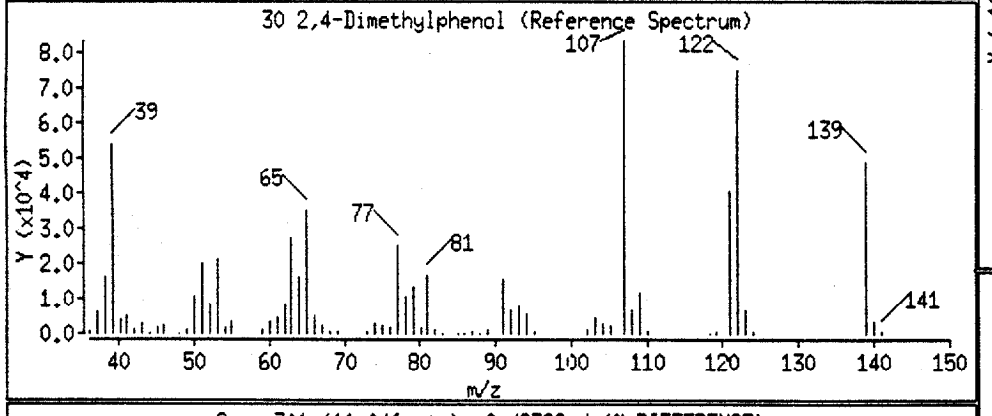
Column diameter : 0.25

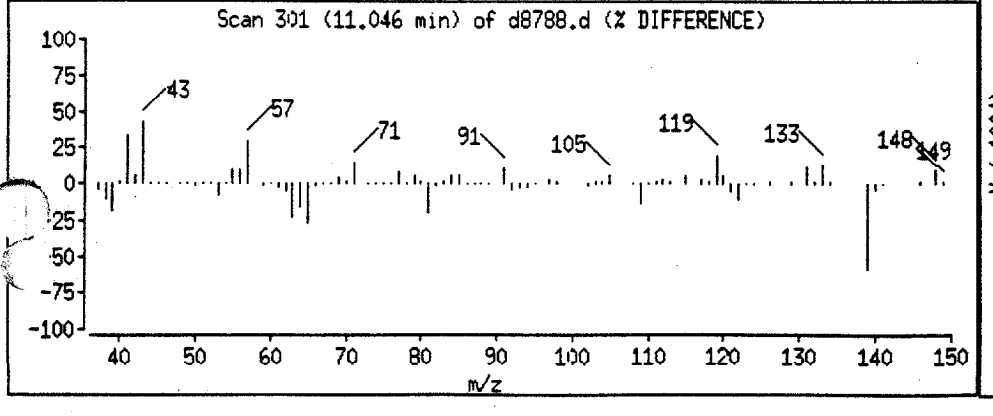
Volume Injected (uL) : 1.0

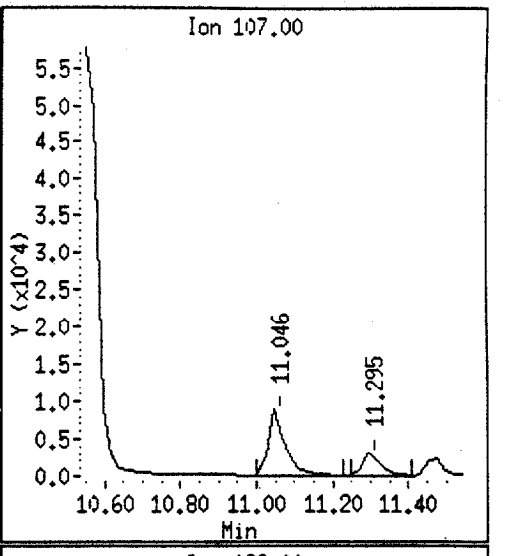
30 2,4-Dimethylphenol

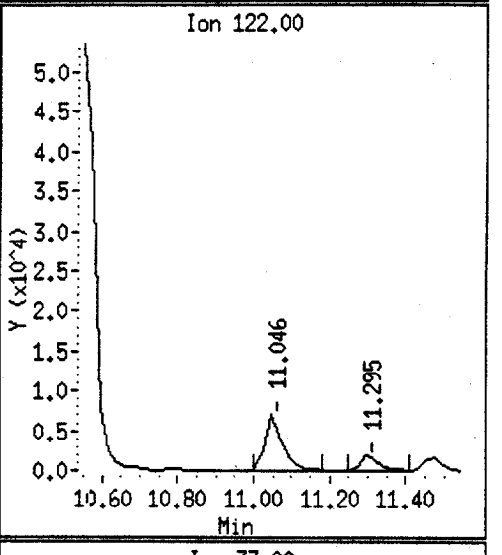


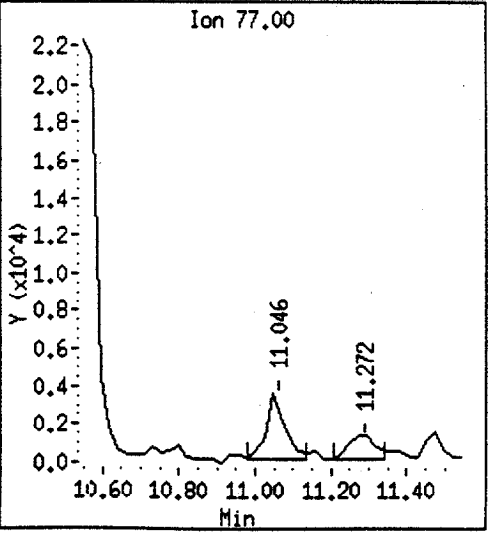












Data File: /chem/a900.i/d063094.b/d8788.d

Date : 30-JUN-94 15:16

Instrument : a900.i

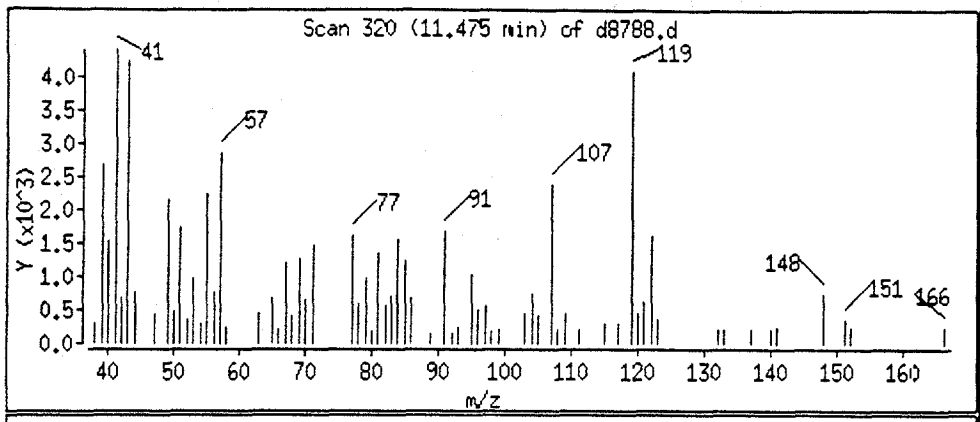
Sample ID :

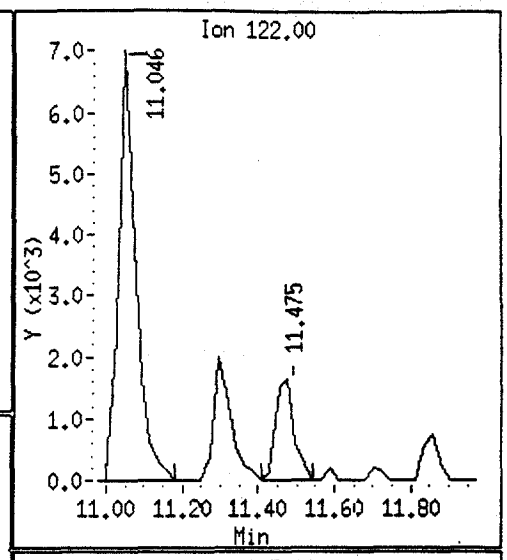
Column phase : J&W DB-5

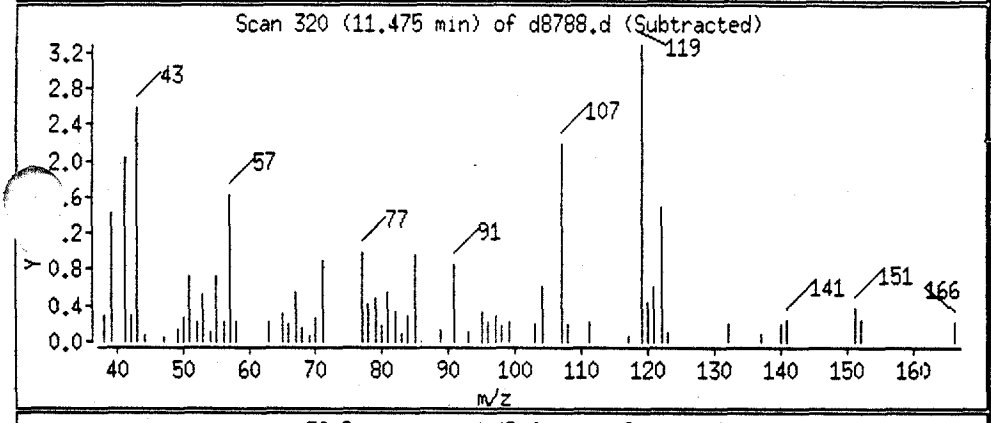
Column diameter : 0.25

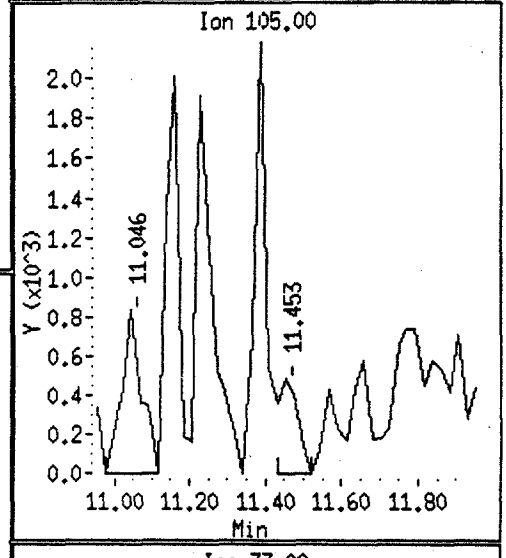
Volume Injected (uL) : 1.0

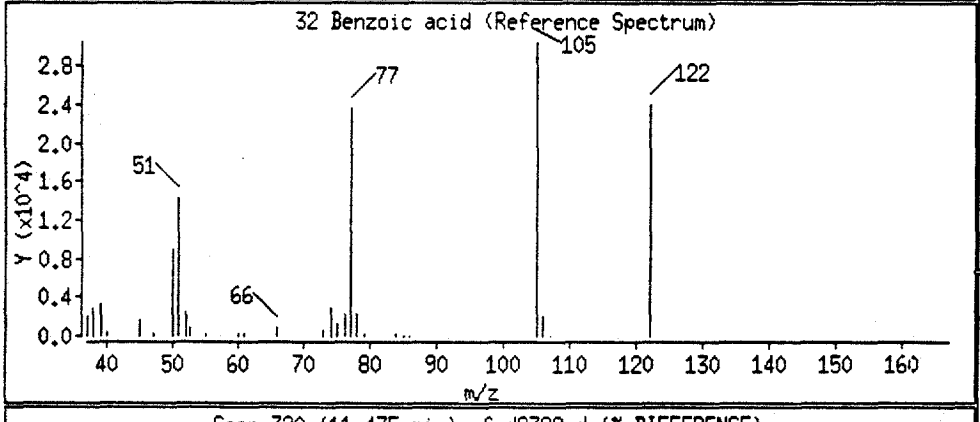
32 Benzoic acid

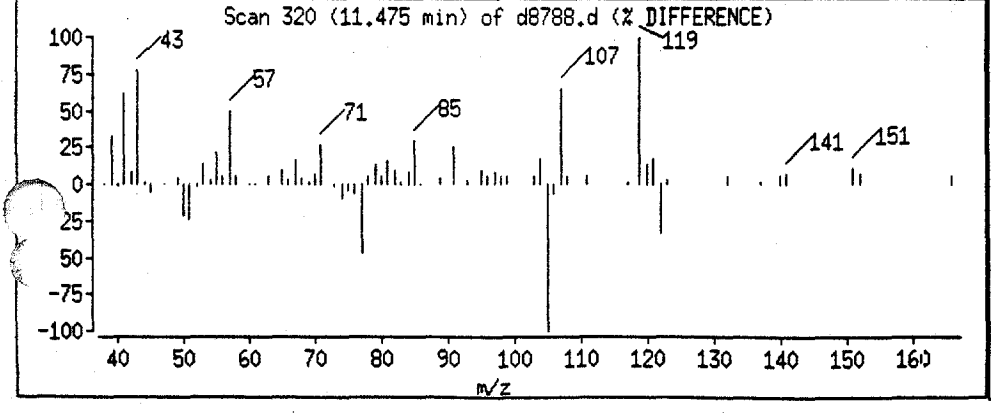


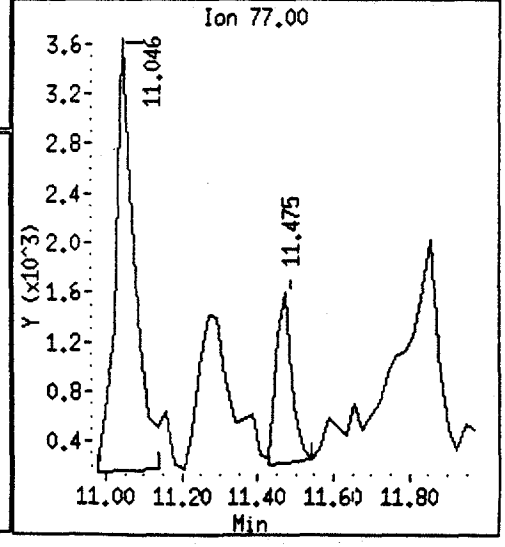












Data File: /chem/a900.i/d063094.b/d8788.d

Date : 30-JUN-94 15:16

Instrument : a900.i

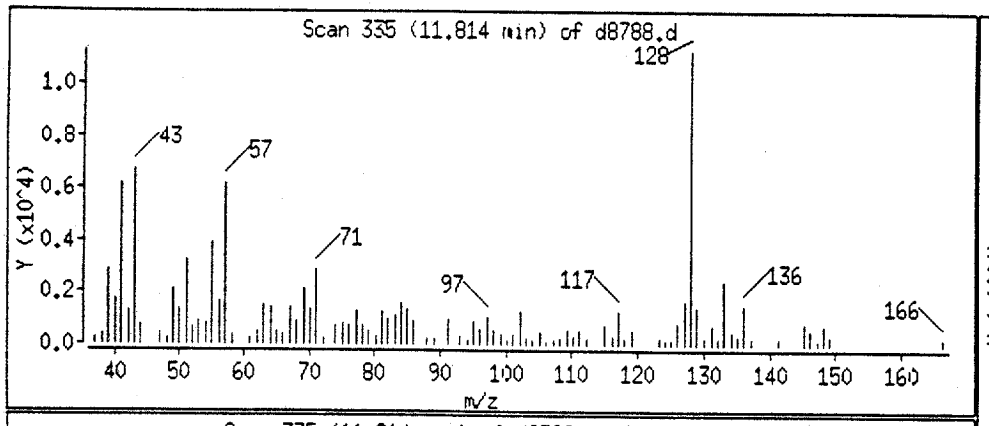
Sample ID :

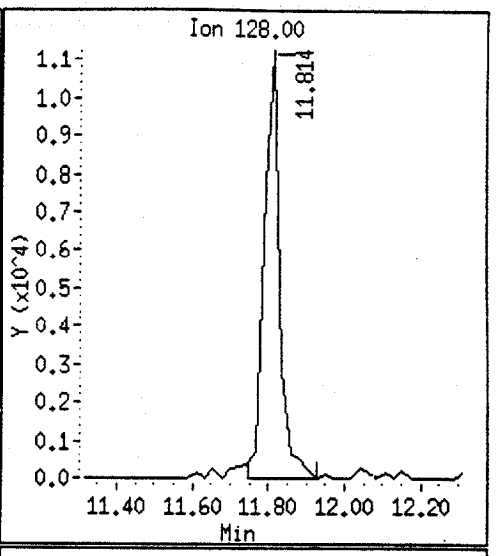
Column phase : J&W DB-5

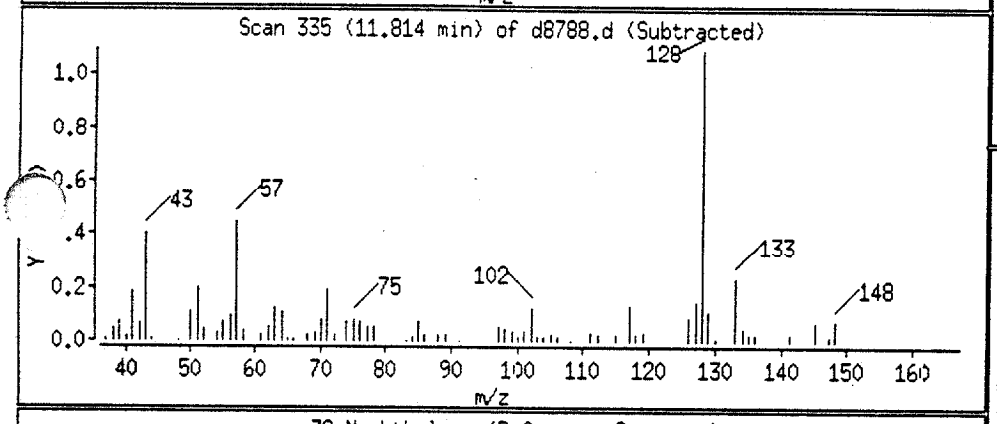
Column diameter : 0.25

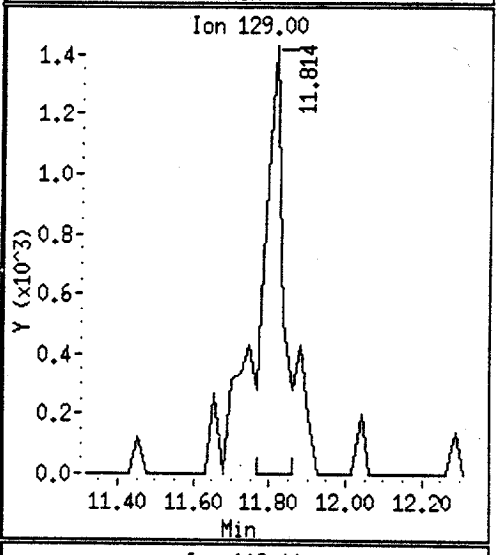
Volume Injected (uL) : 1.0

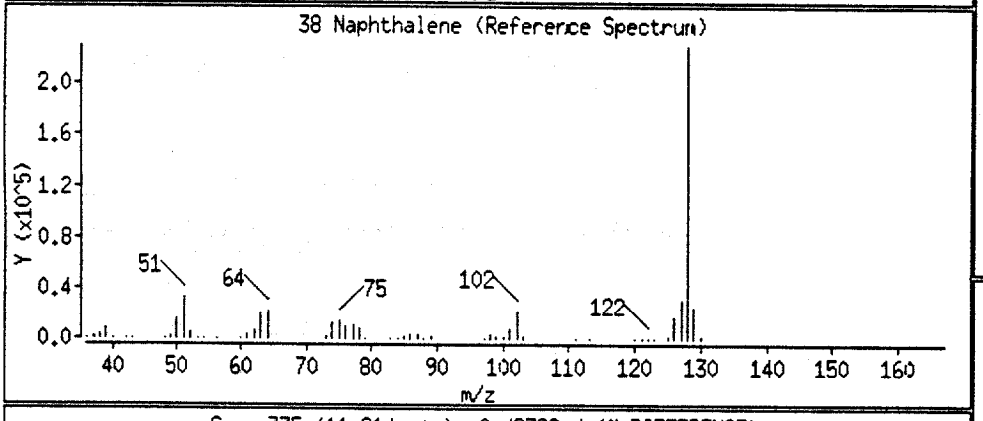
38 Naphthalene

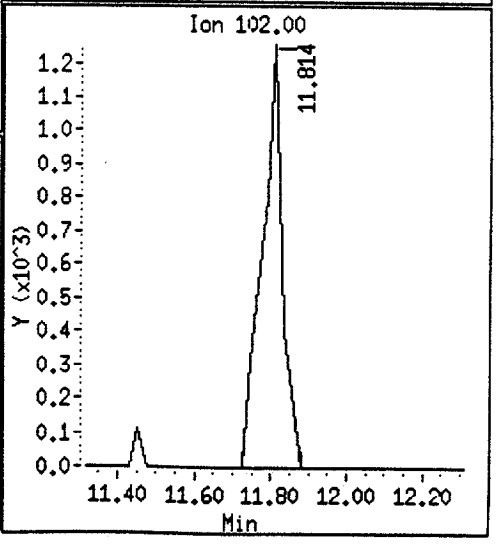


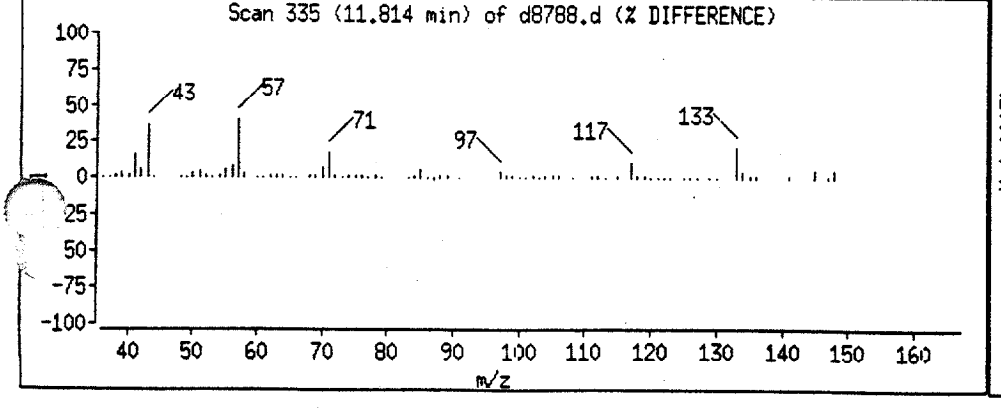






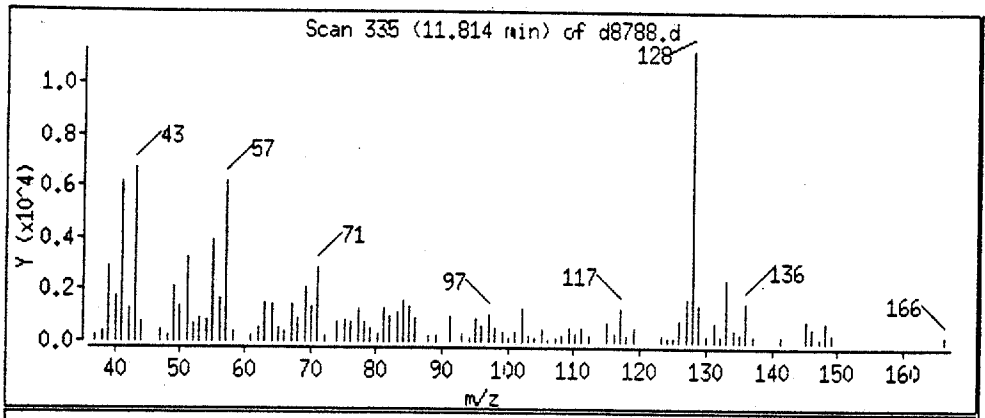


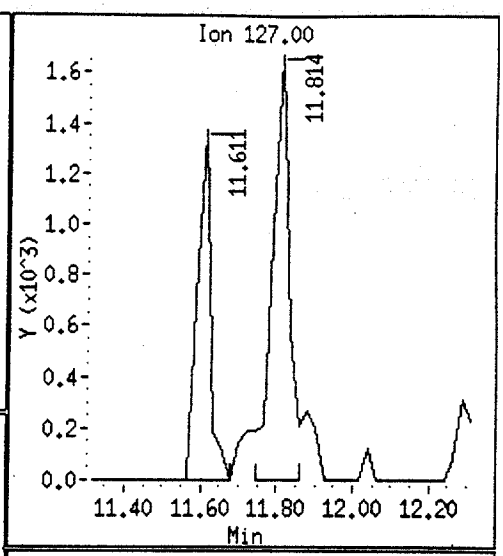


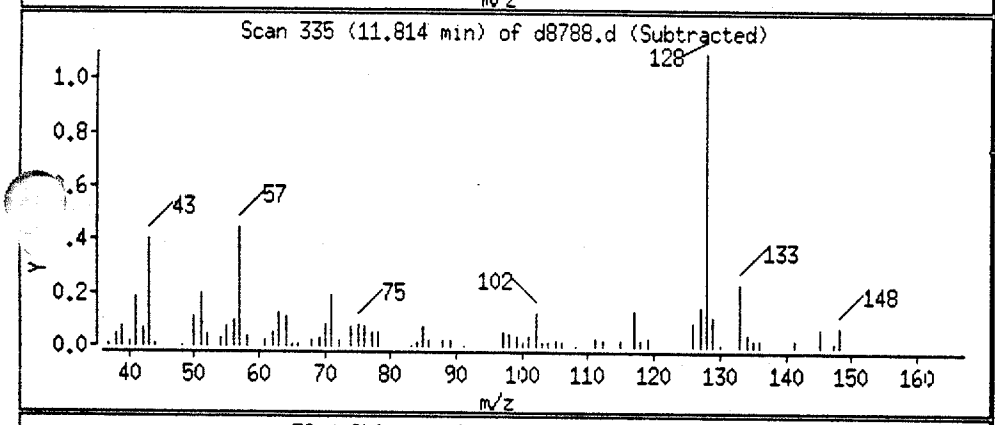


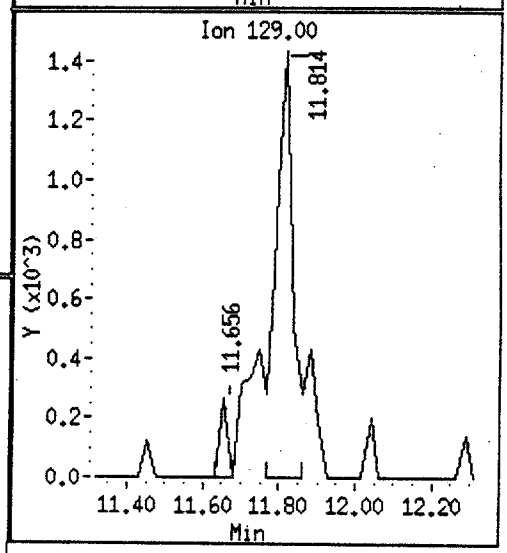
Data File: /chem/a900.i/d063094.b/d8788.d
Date : 30-JUN-94 15:16
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 1.0

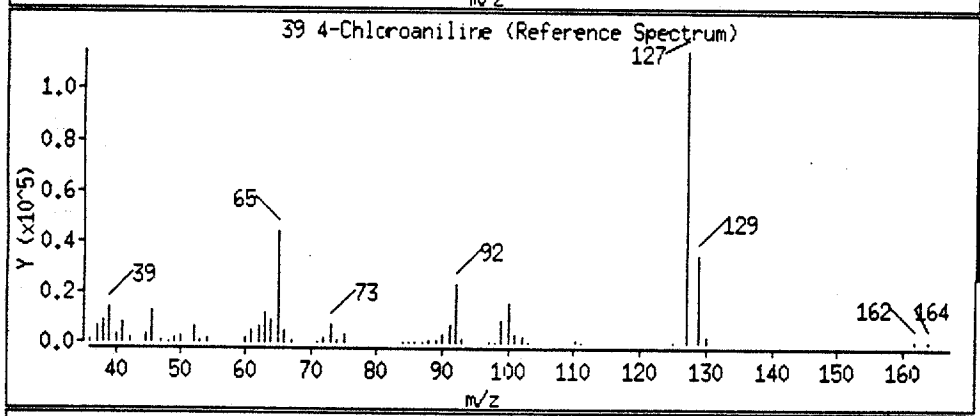
39 4-Chloroaniline

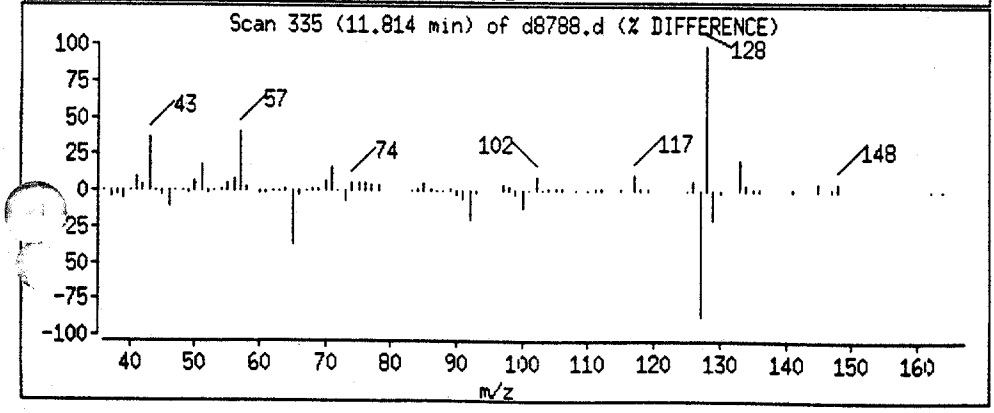












Data File: /chem/a900.i/d063094.b/d8788.d

Date : 30-JUN-94 15:16

Instrument : a900.i

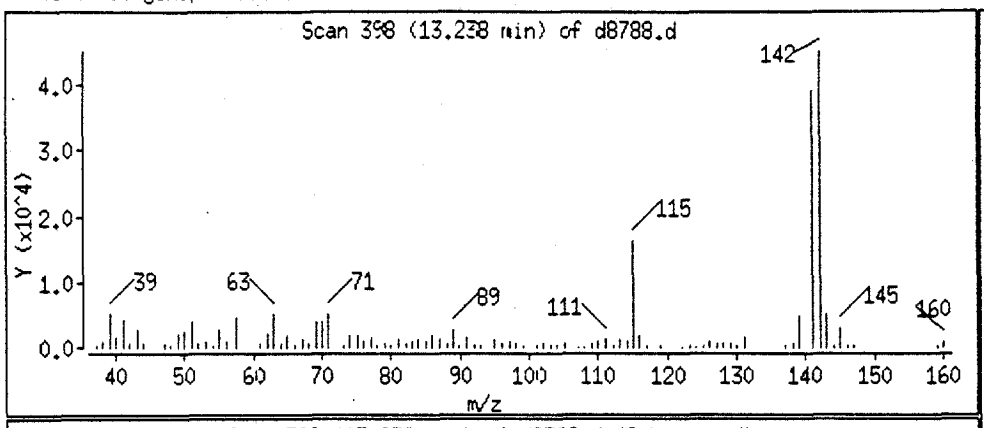
Sample ID :

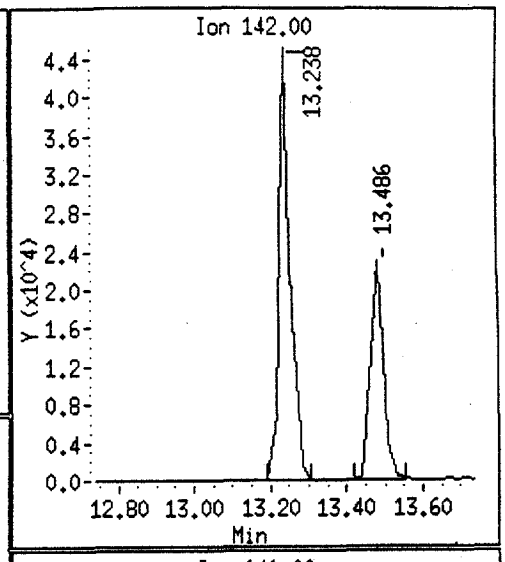
Column phase : J&W DB-5

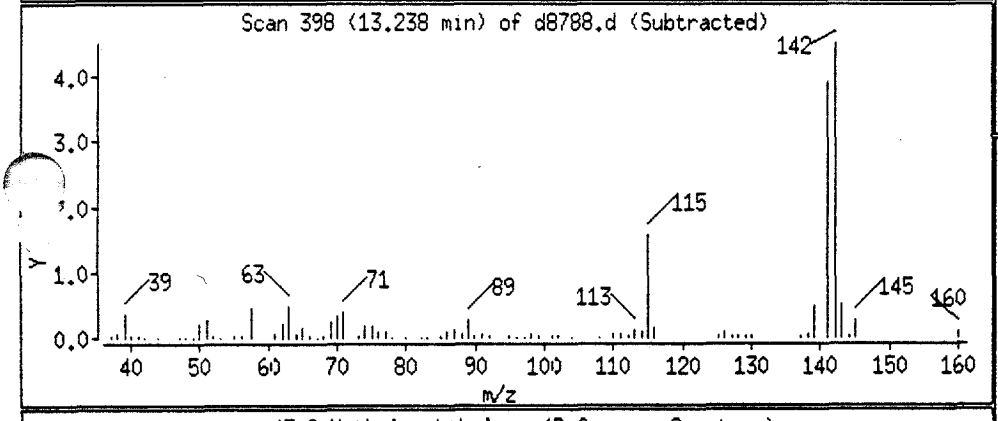
Column diameter : 0.25

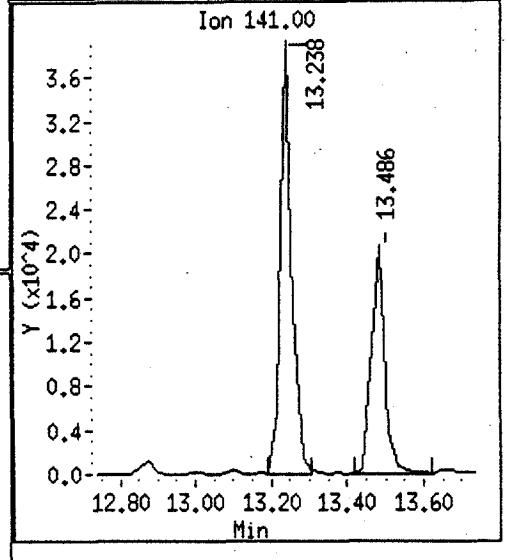
Volume Injected (uL) : 1.0

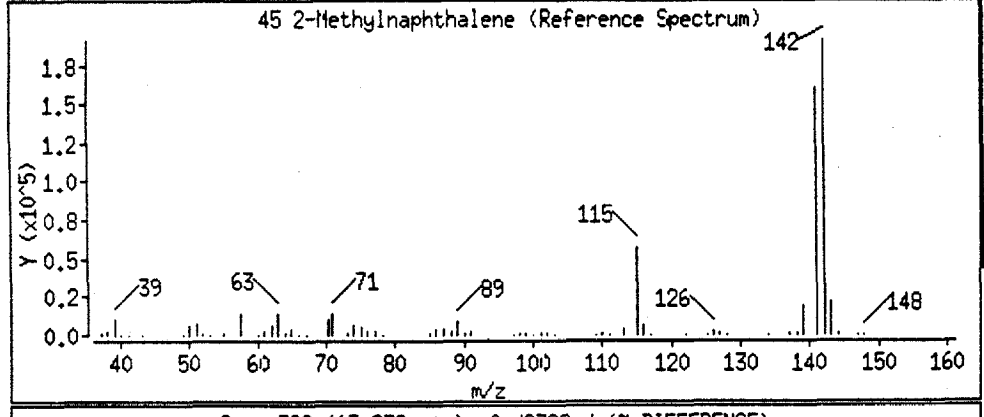
45 2-Methylnaphthalene

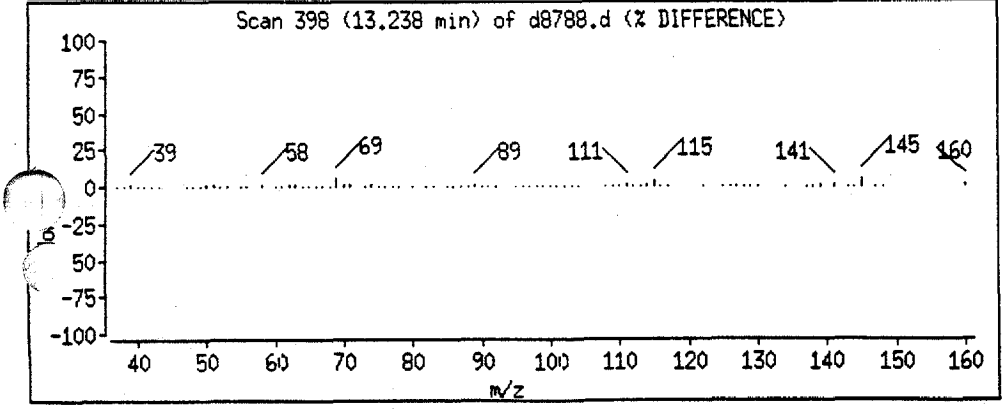












Data File: /chem/a900.i/d063094.b/d8788.d

Date : 30-JUN-94 15:16

Instrument : a900.i

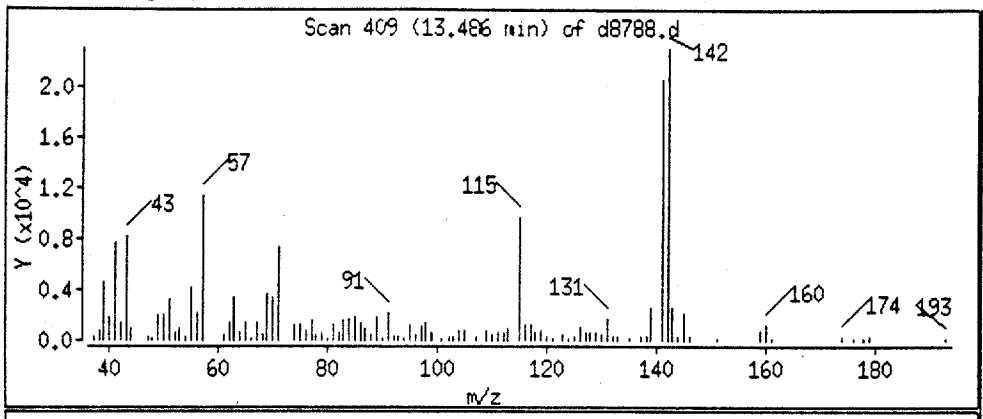
Sample ID :

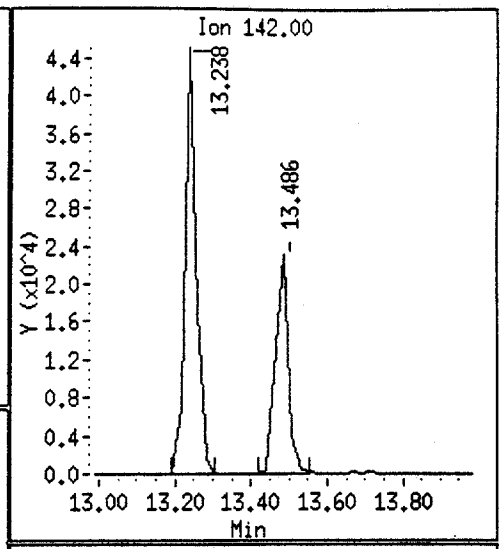
Column phase : J&W DB-5

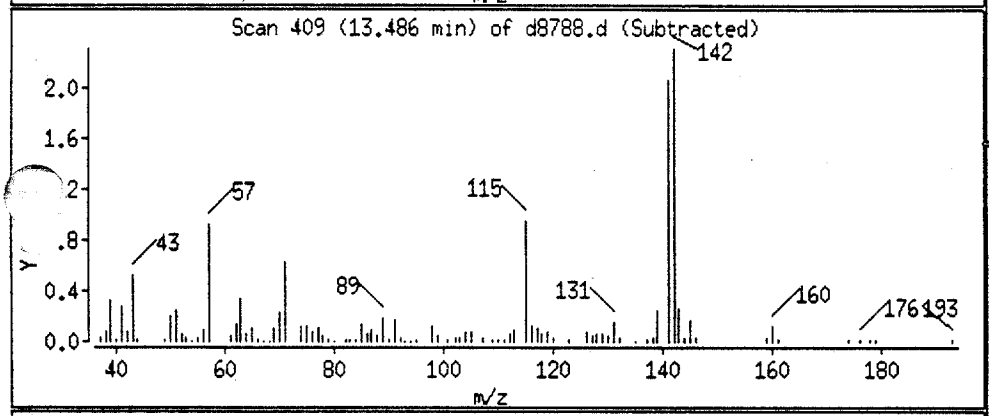
Column diameter : 0.25

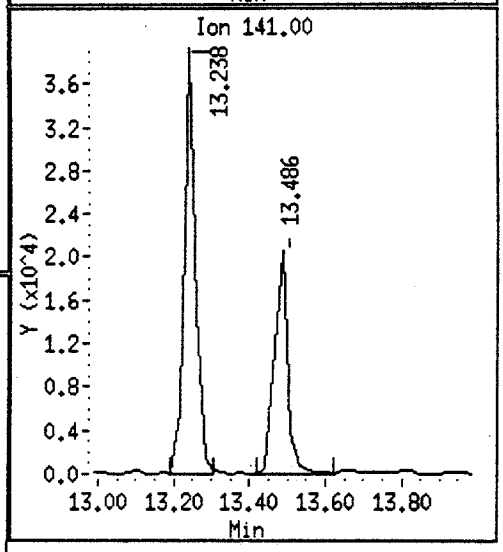
Volume Injected (uL) : 1.0

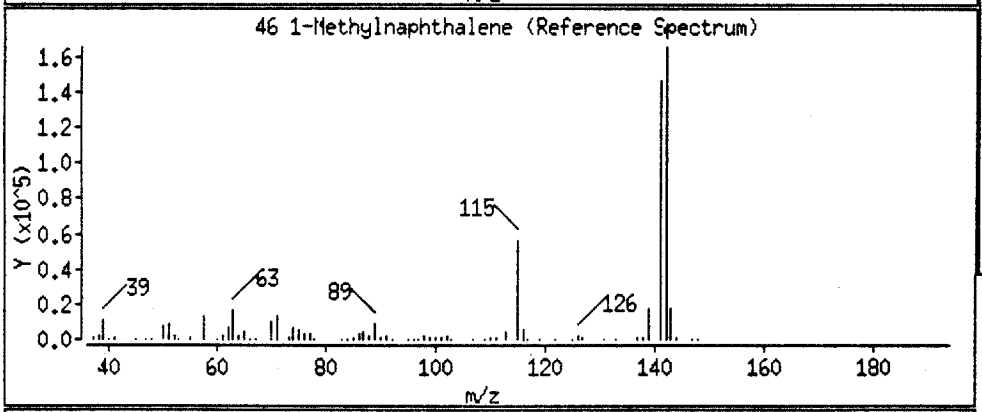
46 1-Methylnaphthalene

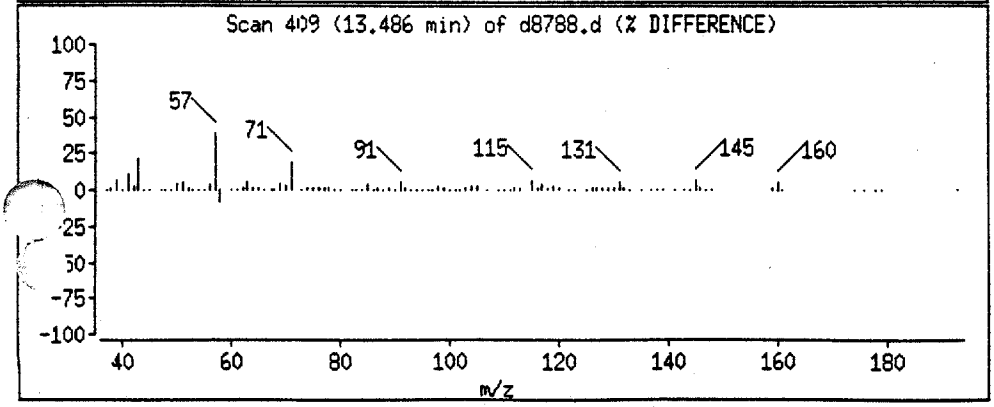












Data File: /chem/a900.i/d063094.b/d8788.d

Date : 30-JUN-94 15:16

Instrument : a900.i

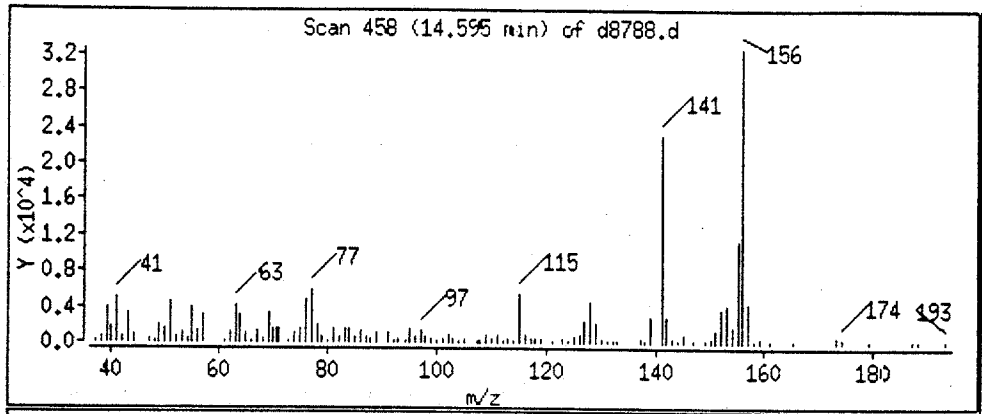
Sample ID :

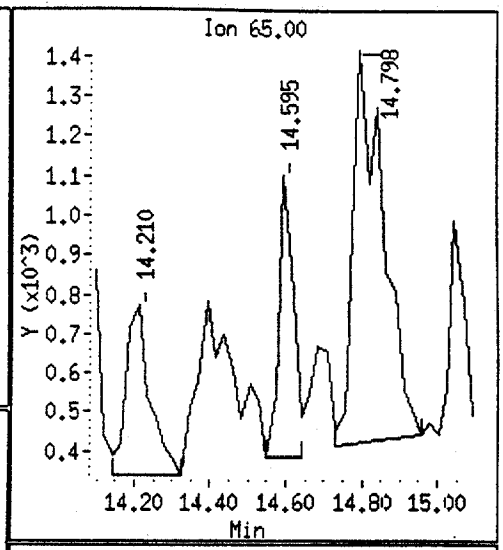
Column phase : J&W DB-5

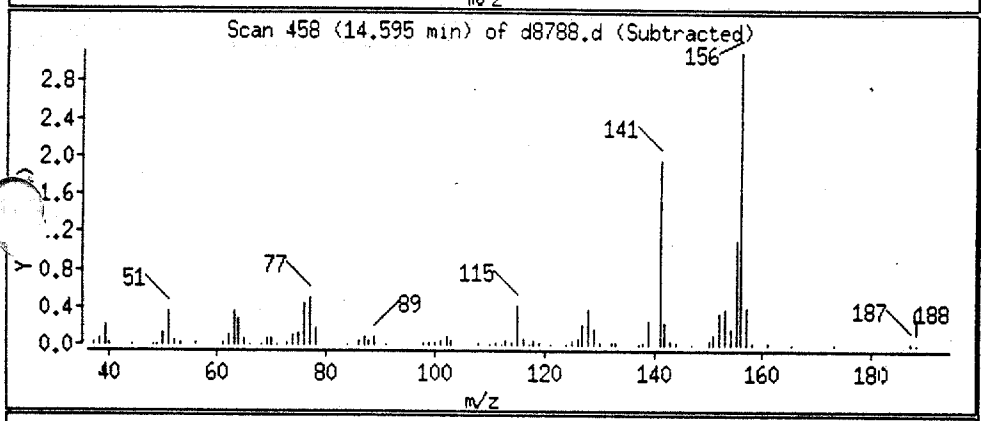
Column diameter : 0.25

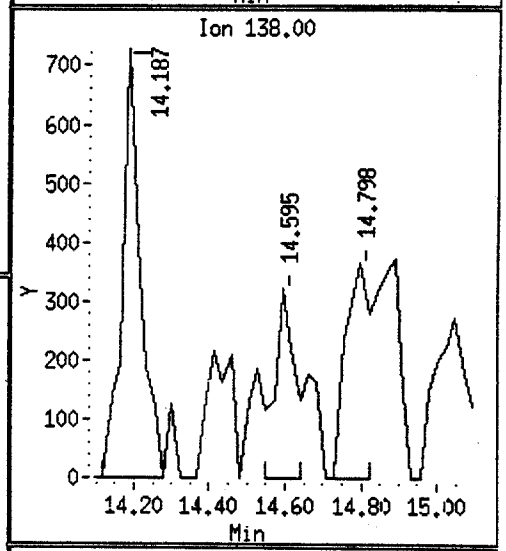
Volume Injected (uL) : 1.0

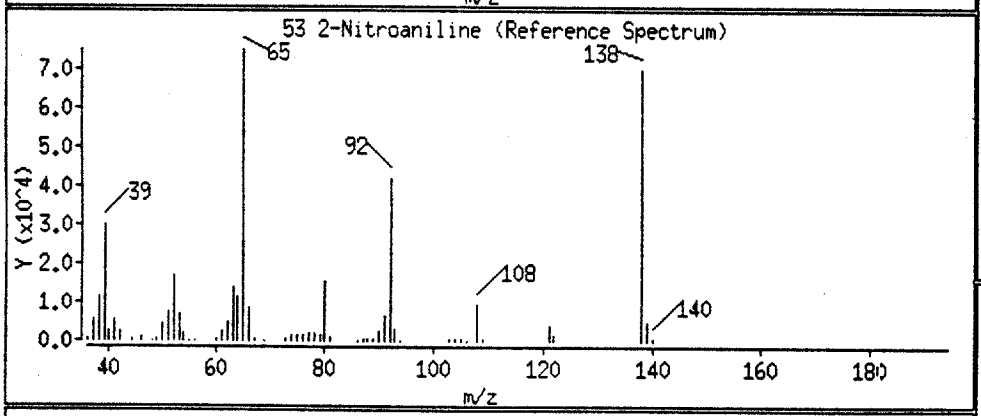
53 2-Nitroaniline

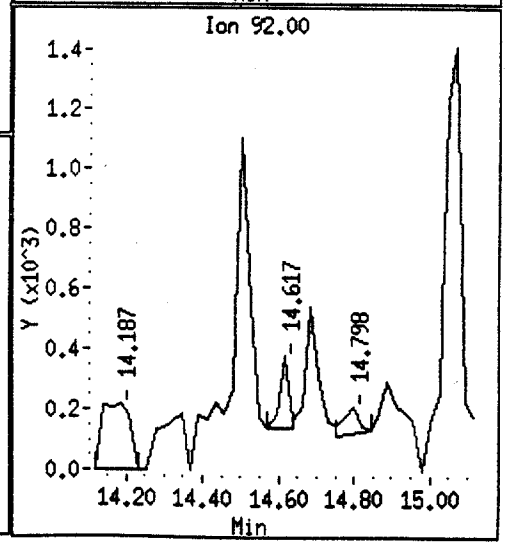


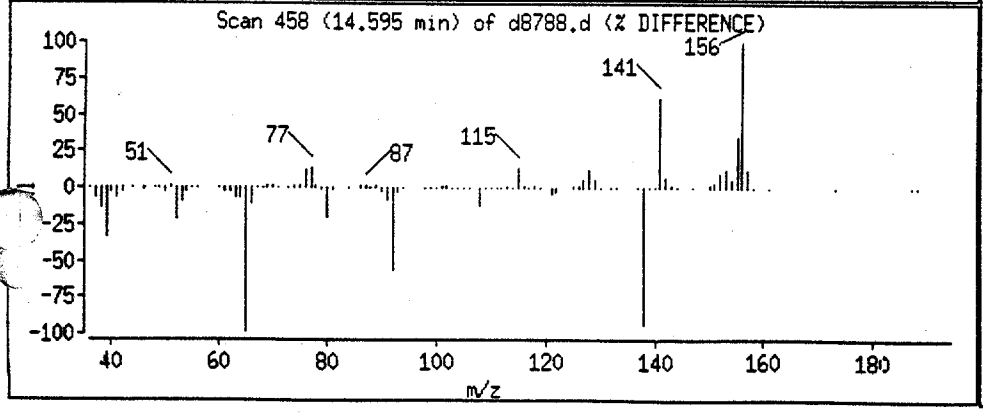












Data File: /chem/a900.i/d063094.b/d8788.d

Date : 30-JUN-94 15:16

Instrument : a900.i

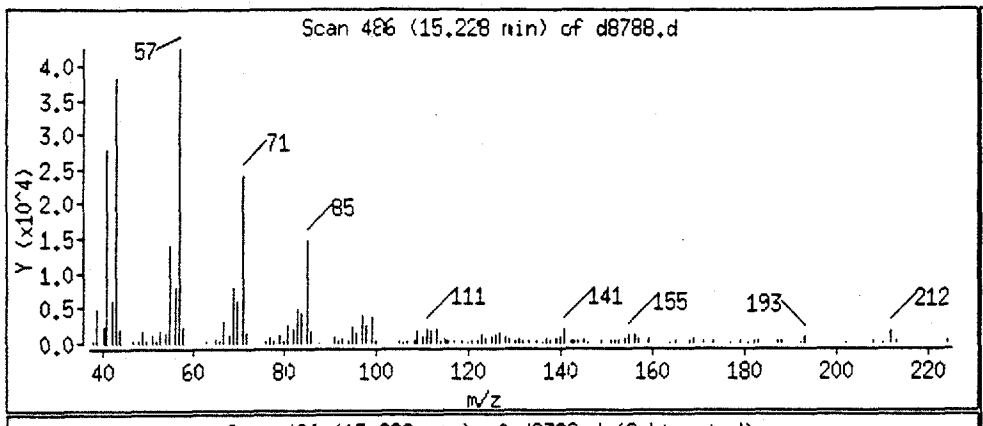
Sample ID :

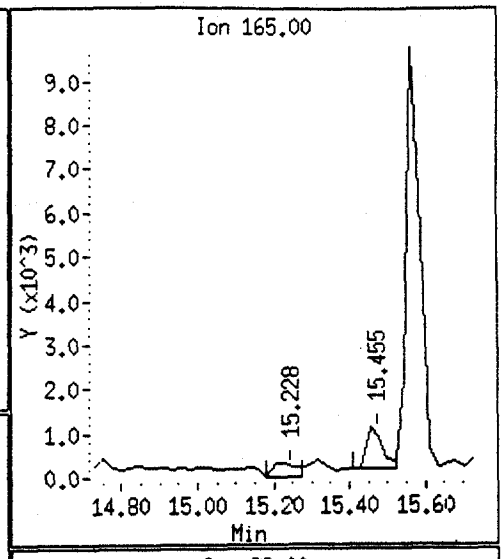
Column phase : J&W DB-5

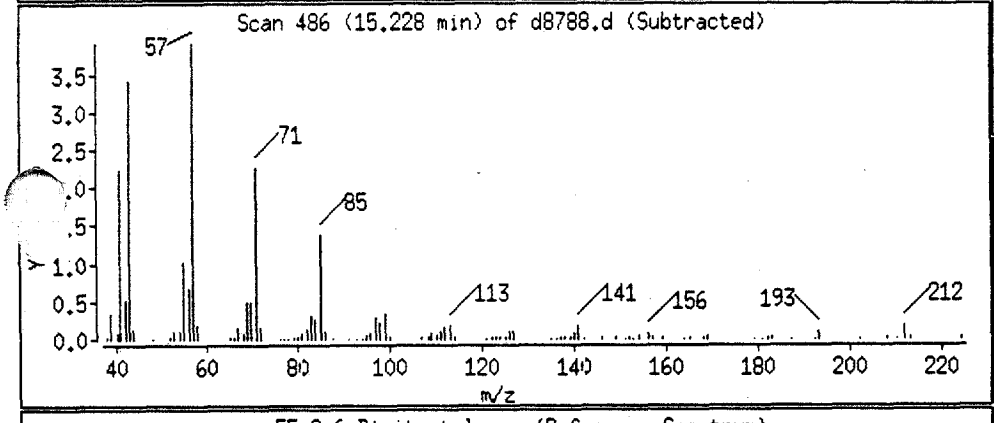
Column diameter : 0.25

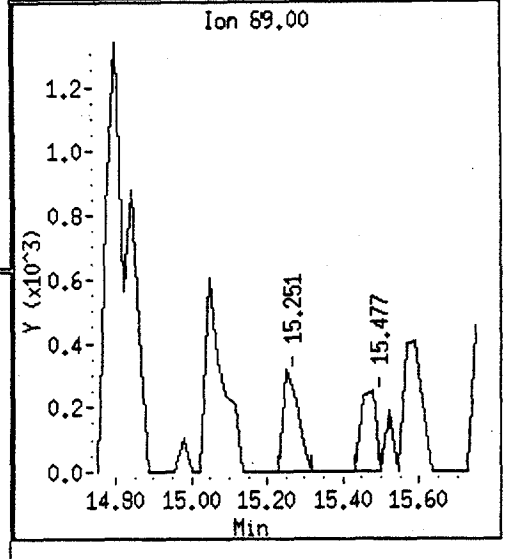
Volume Injected (uL) : 1.0

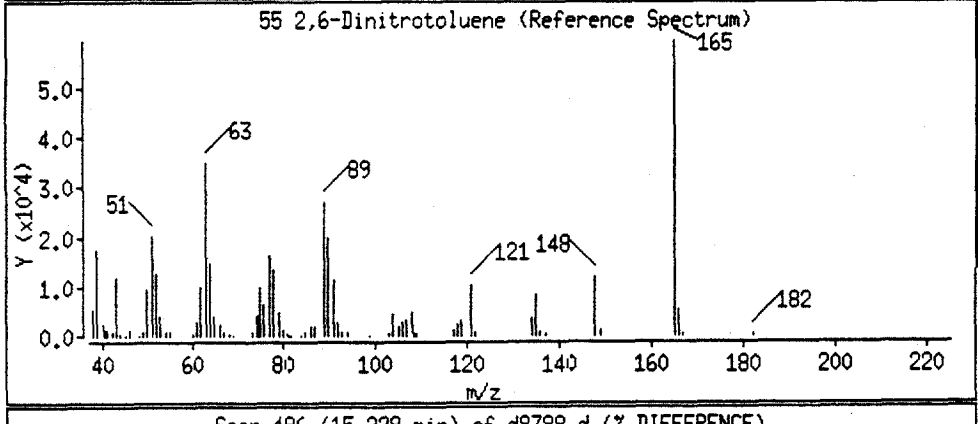
55 2,6-Dinitrotoluene

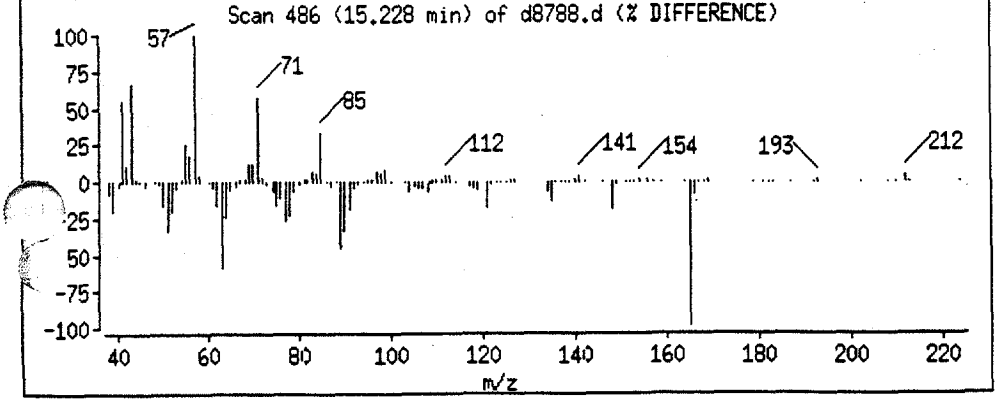












Data File: /chem/a900.i/d063094.b/d8788.d

Date : 30-JUN-94 15:16

Instrument : a900.i

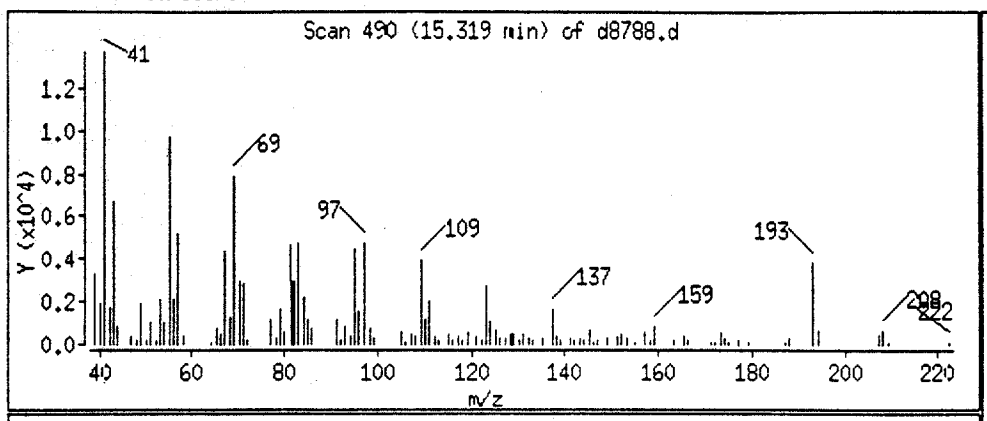
Sample ID :

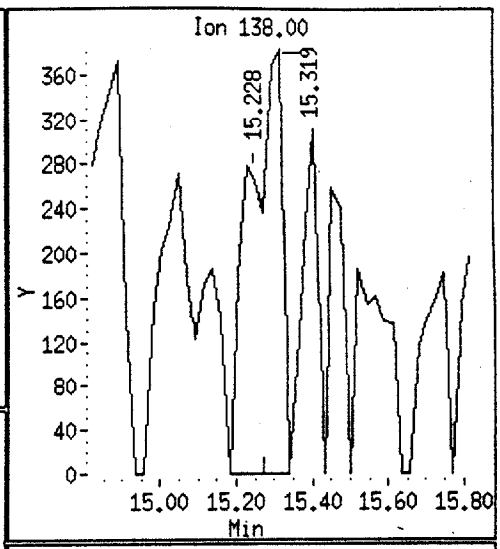
Column phase : J&W DB-5

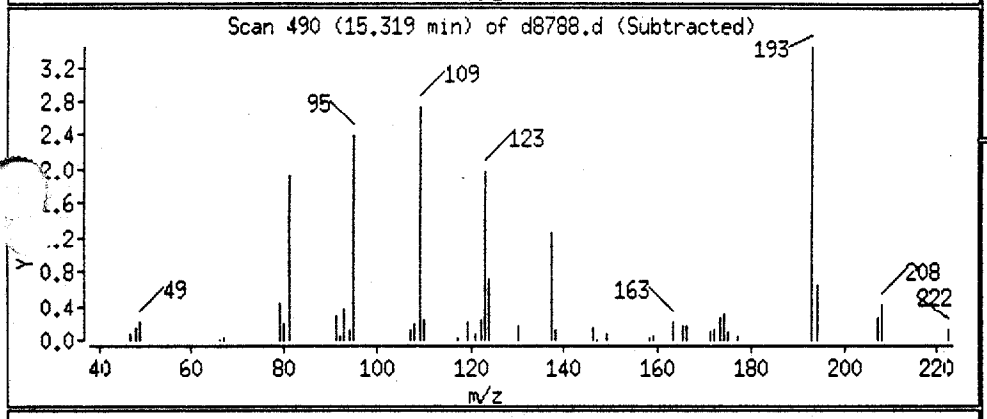
Column diameter : 0.25

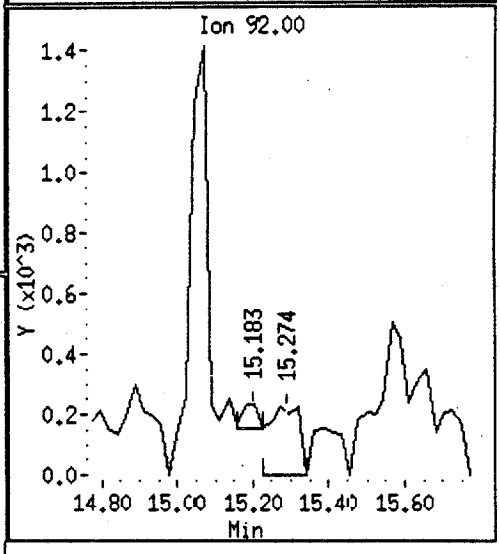
Volume Injected (uL) : 1.0

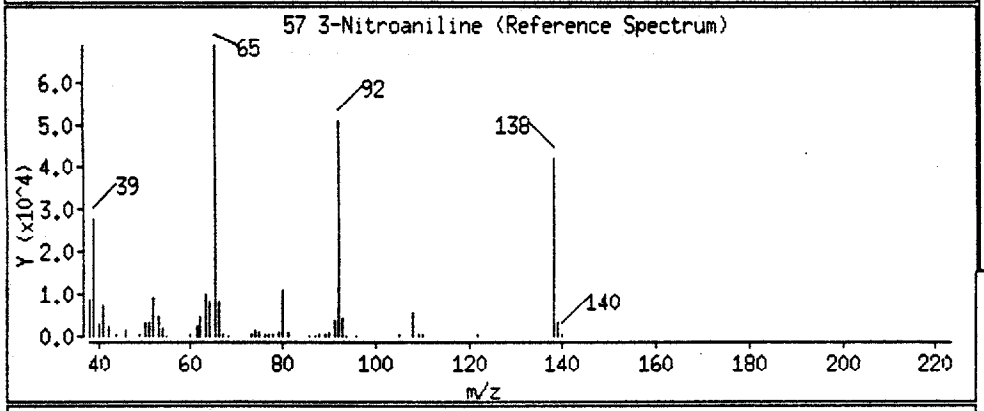
57 3-Nitroaniline

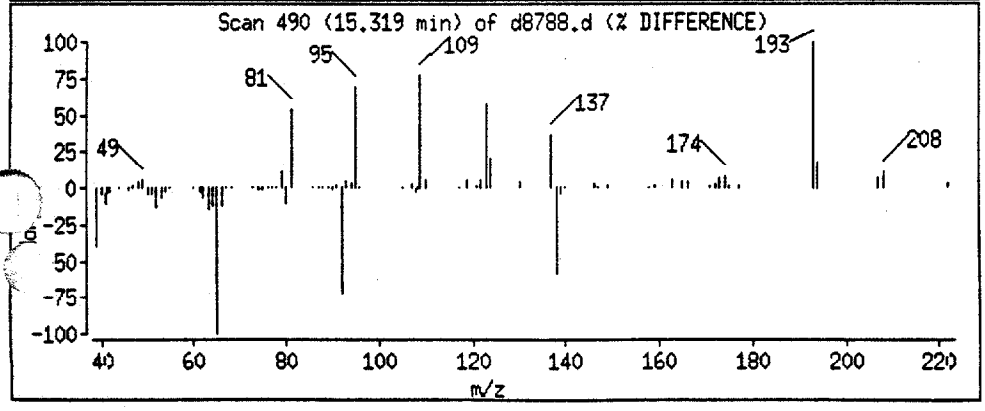












Data File: /chem/a900.i/d063094.b/d8788.d

Date : 30-JUN-94 15:16

Instrument : a900.i

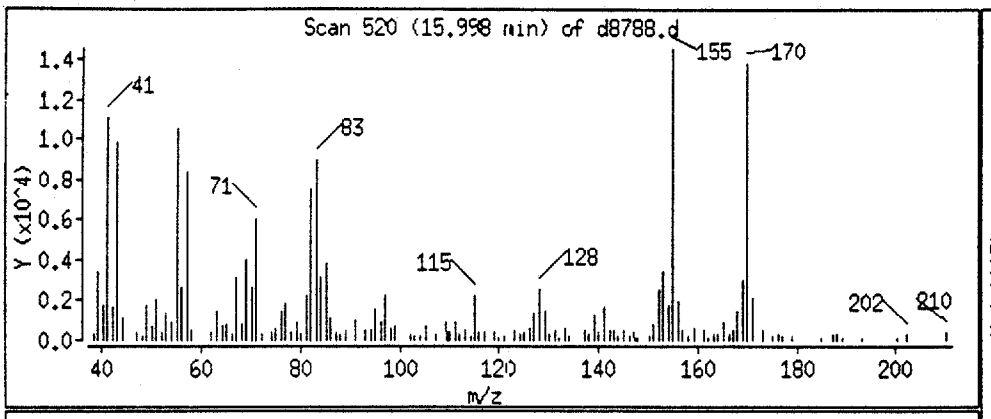
Sample ID :

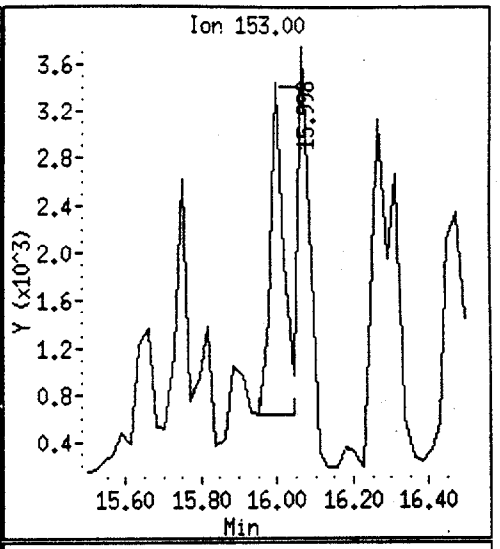
Column phase : J&W DB-5

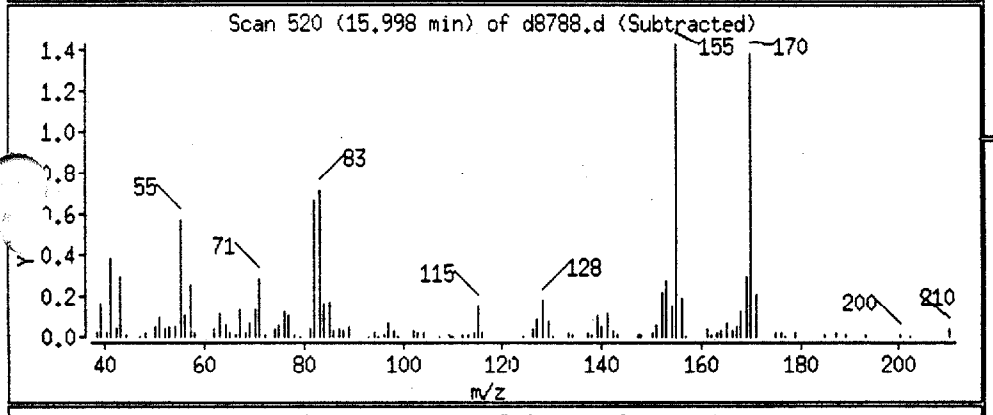
Column diameter : 0.25

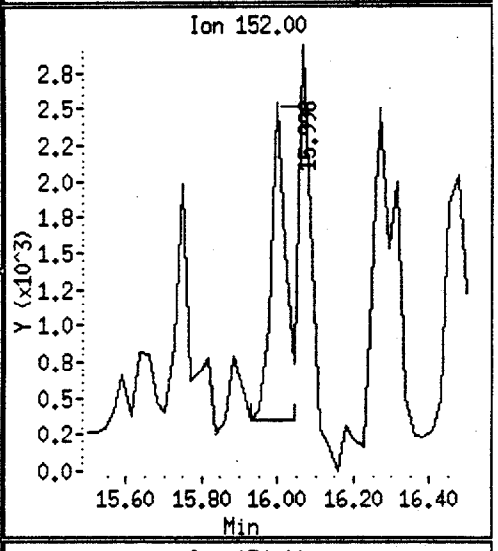
Volume Injected (uL) : 1.0

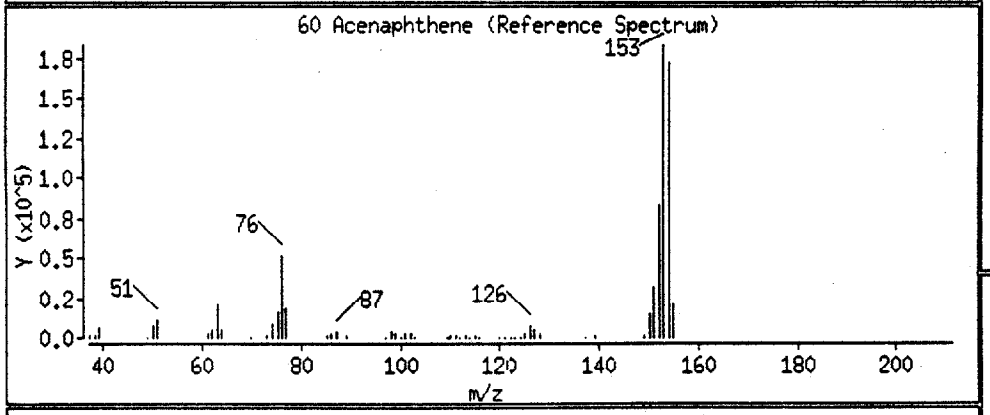
60 Acenaphthene

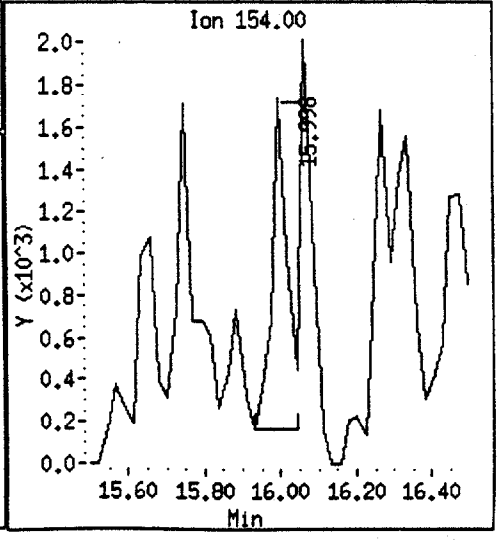


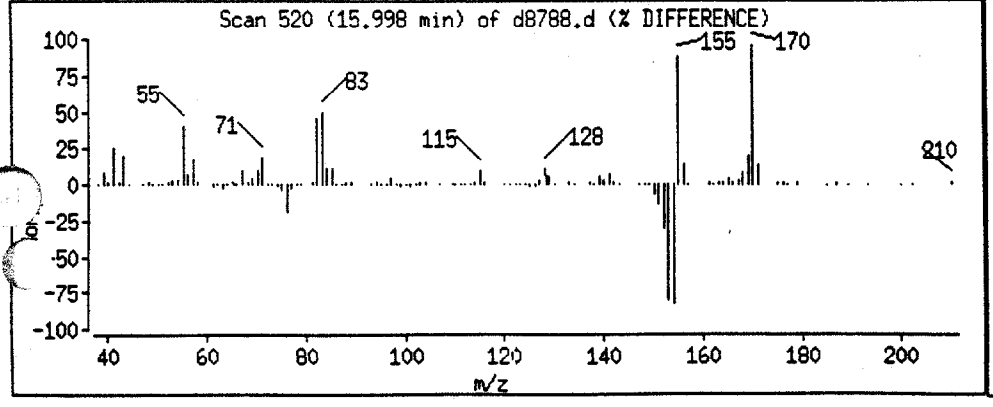












Data File: /chem/a900.i/d063094.b/d8788.d

Date : 30-JUN-94 15:16

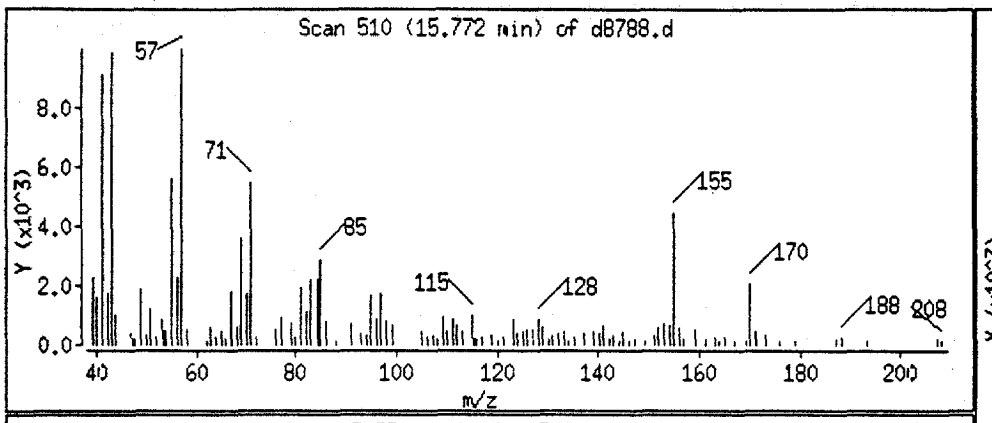
Instrument : a900.i

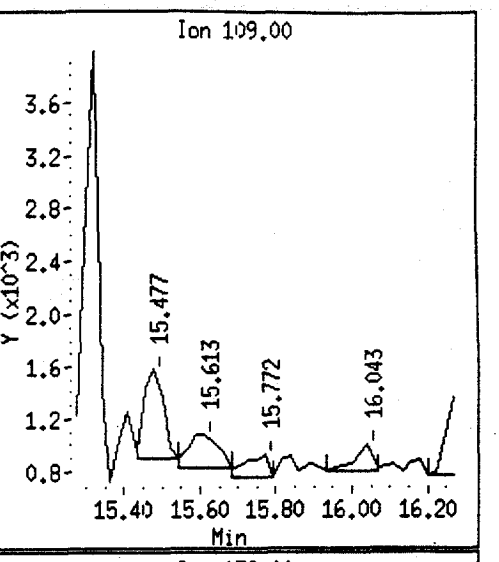
Sample ID :

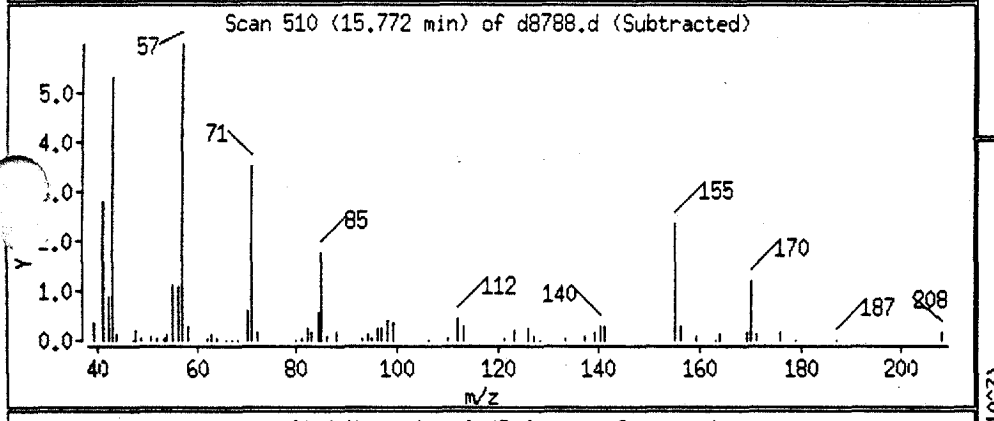
Column phase : J&W DB-5 Column diameter : 0.25

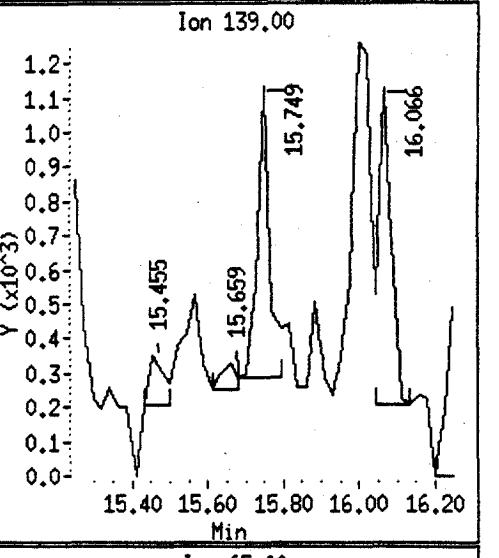
Volume Injected (uL) : 1.0

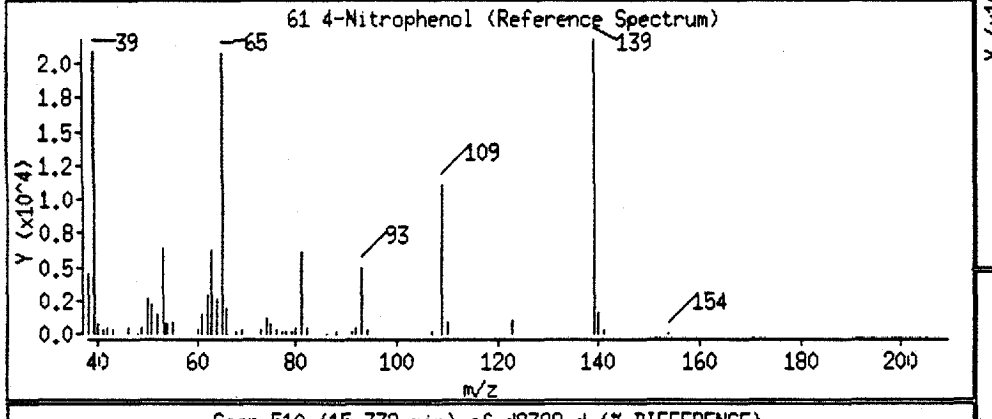
61 4-Nitrophenol

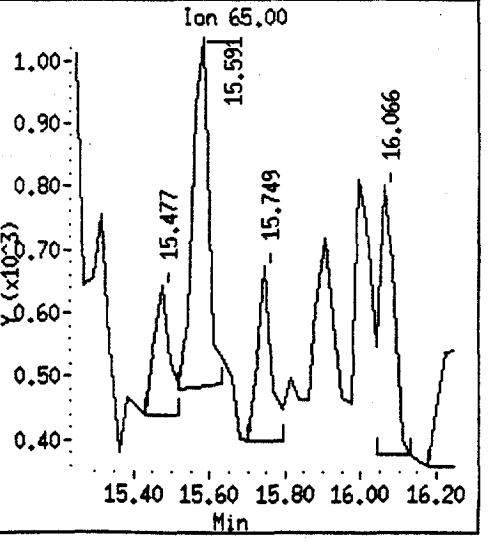


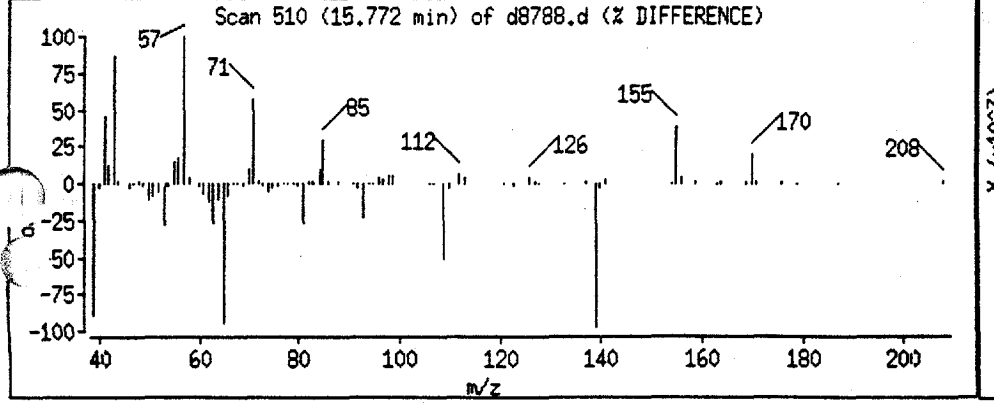












Data File: /chem/a900.i/d063094.b/d8788.d

Date : 30-JUN-94 15:16

Instrument : a900.i

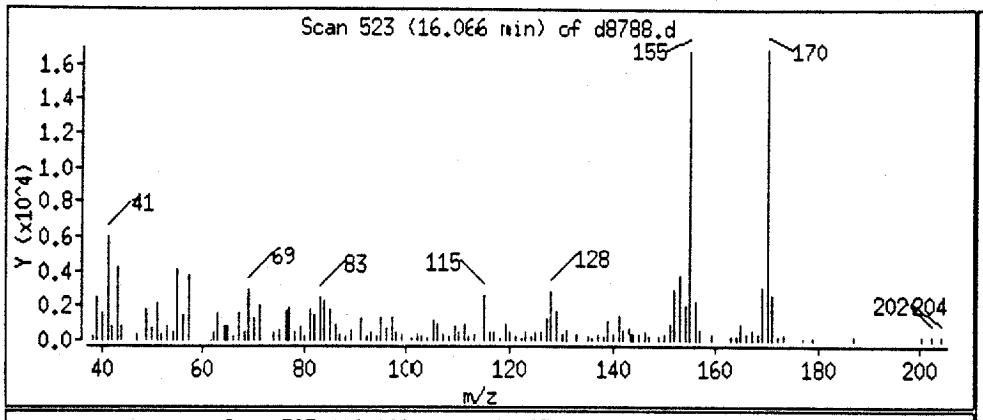
Sample ID :

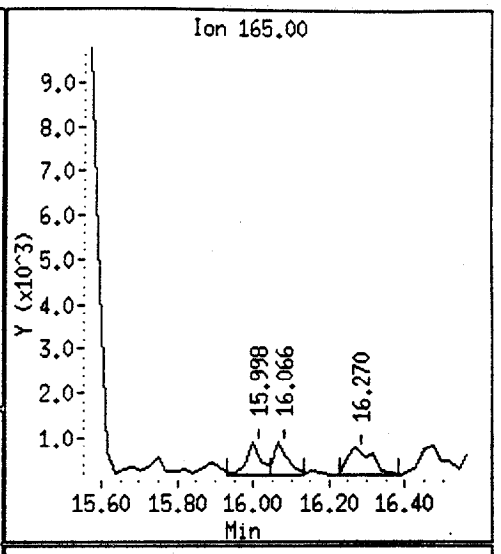
Column phase : J&W DB-5

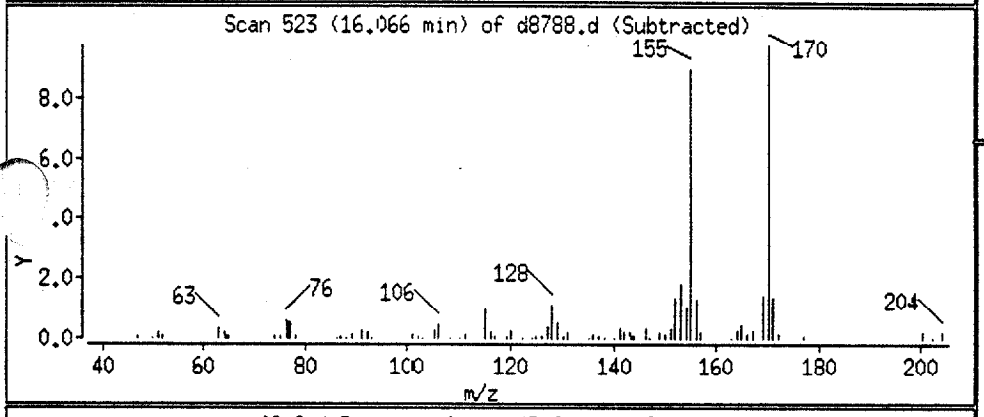
Column diameter : 0.25

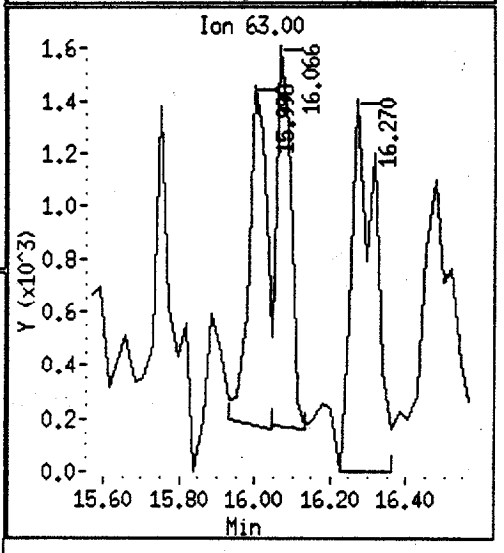
Volume Injected (uL) : 1.0

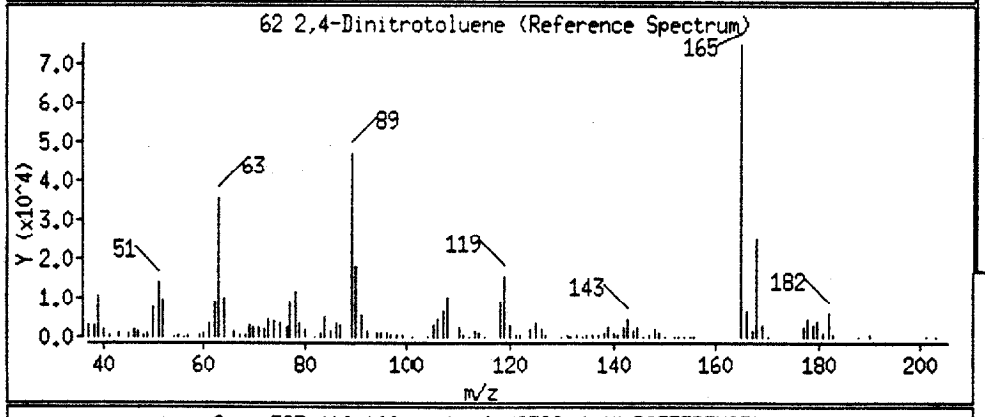
62 2,4-Dinitrotoluene

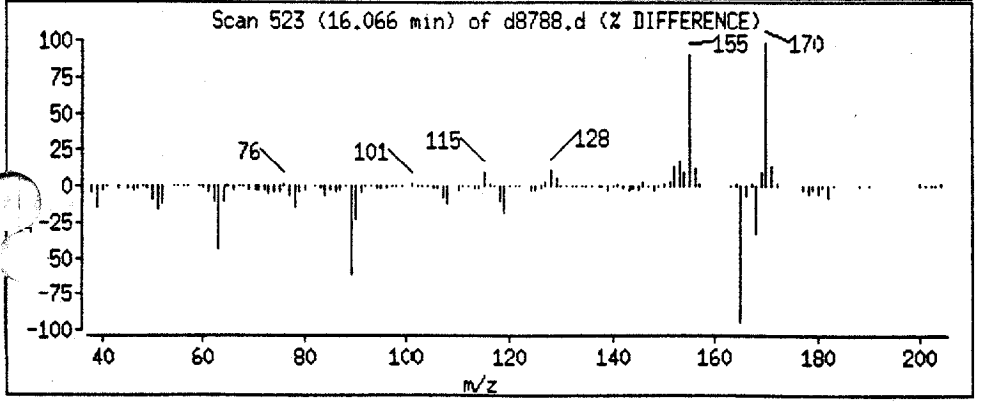












Data File: /chem/a900.i/d063094.b/d8788.d

Date : 30-JUN-94 15:16

Instrument : a900.i

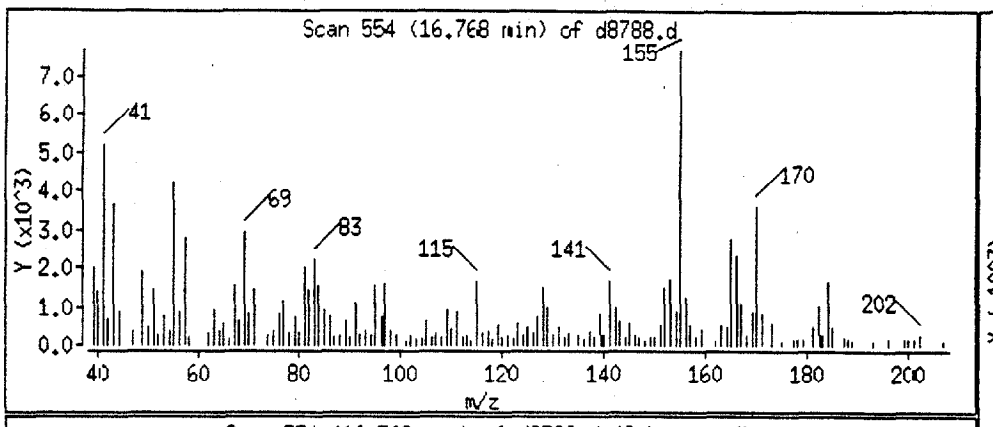
Sample ID :

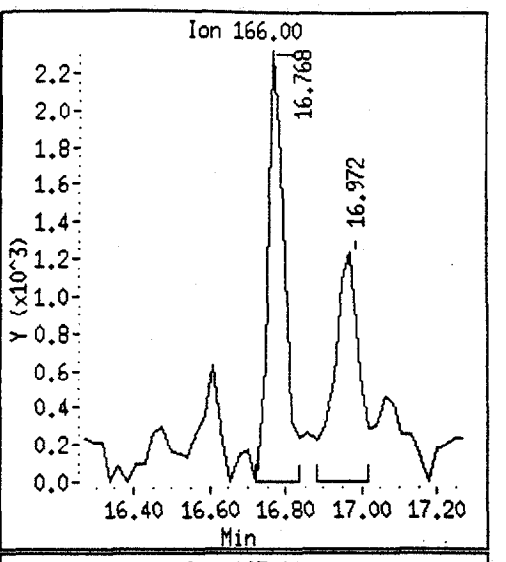
Column phase : J&W DB-5

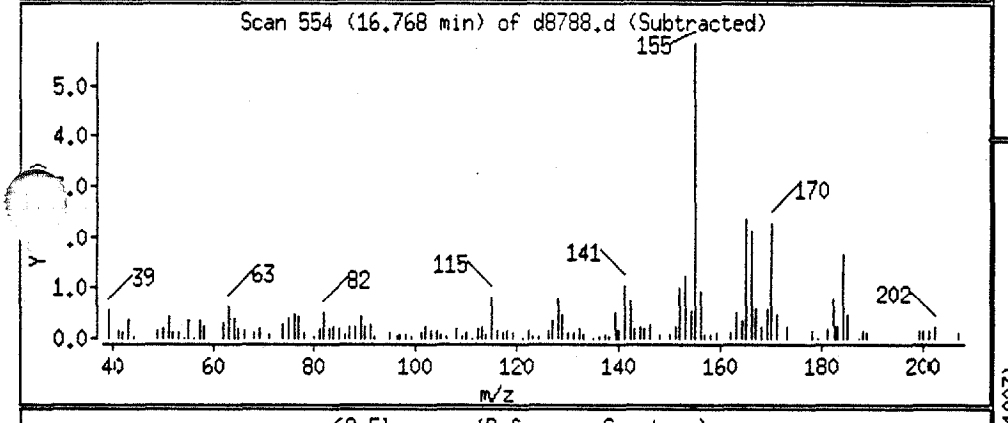
Column diameter : 0.25

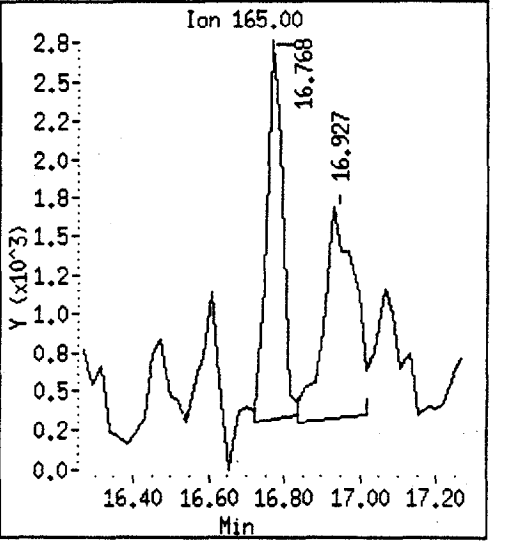
Volume Injected (uL) : 1.0

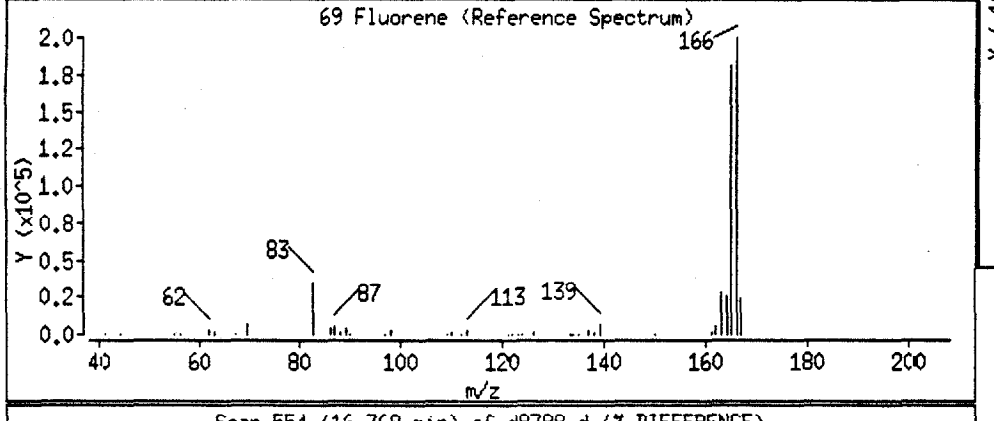
69 Fluorene

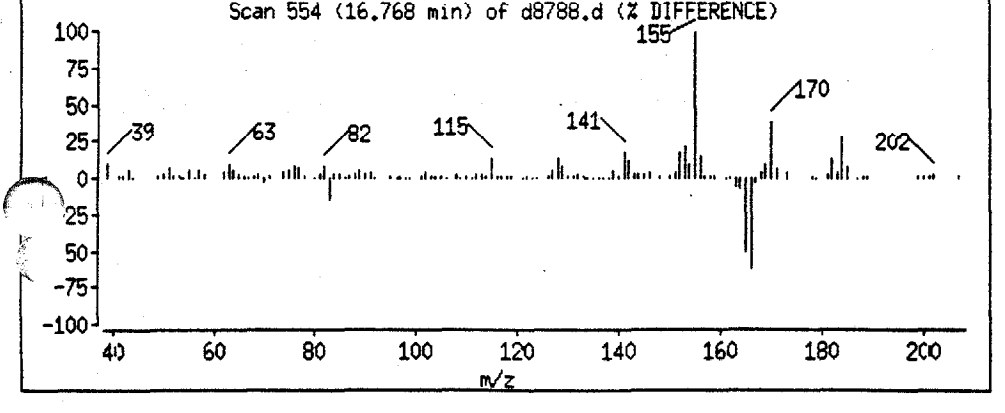












Data File: /chem/a900.i/d063094.b/d8788.d

Date : 30-JUN-94 15:16

Instrument : a900.i

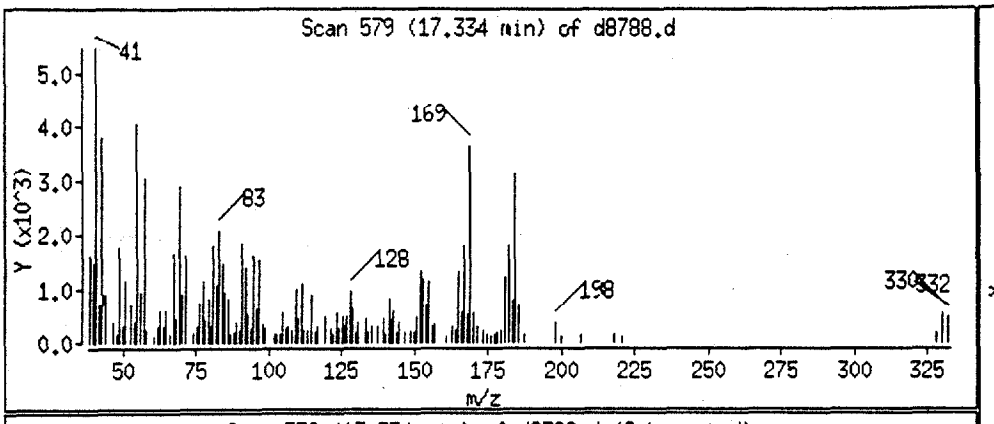
Sample ID :

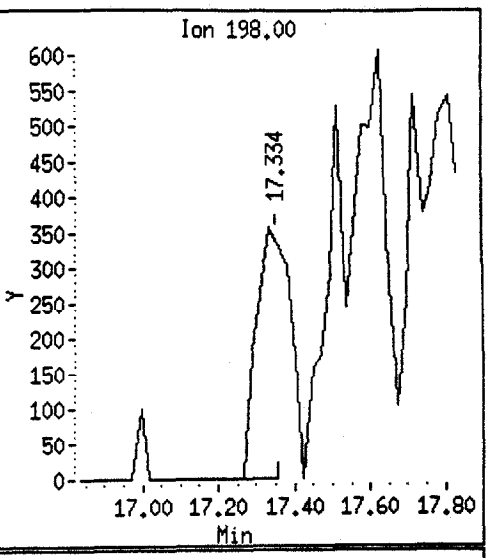
Column phase : J&W DB-5

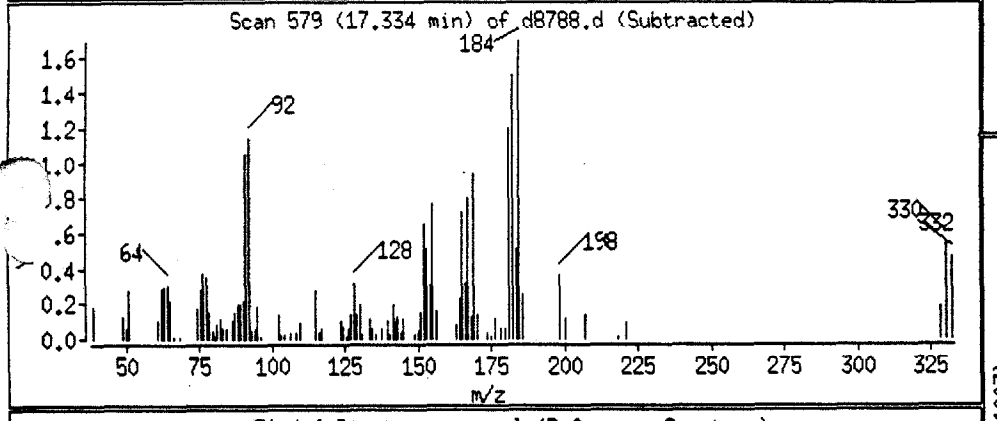
Column diameter : 0.25

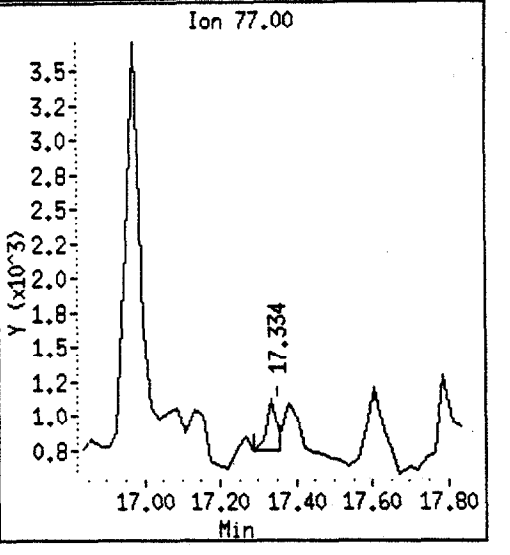
Volume Injected (uL) : 1.0

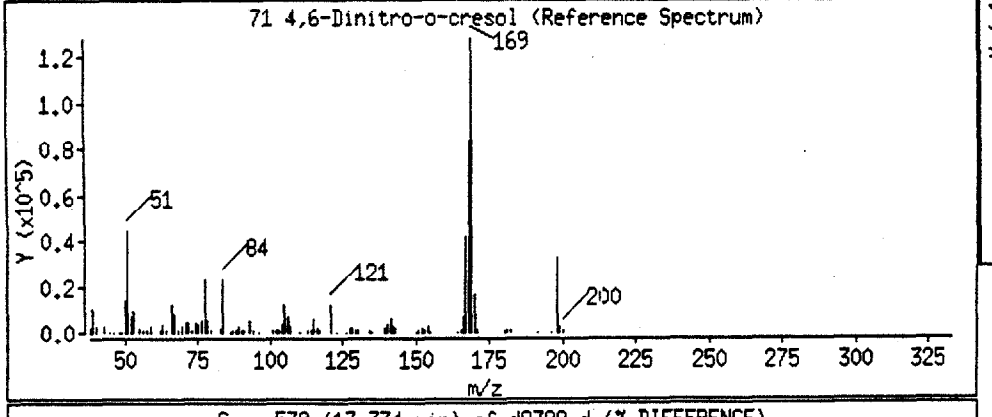
71 4,6-Dinitro-o-cresol

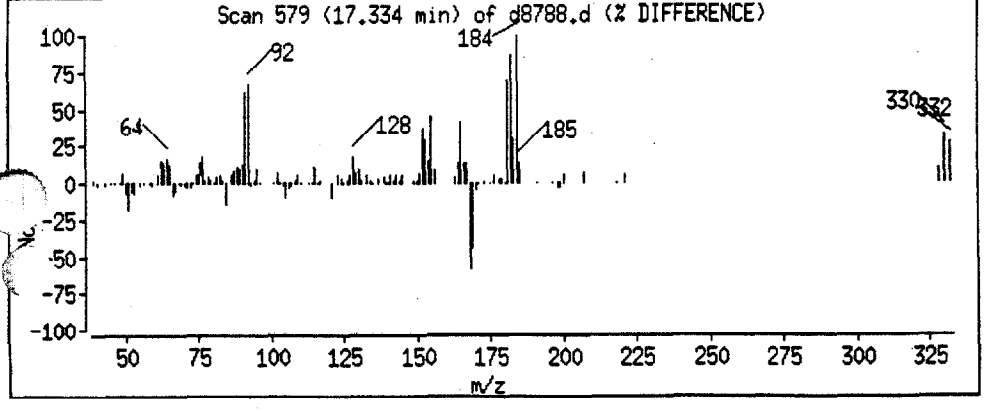












Data File: /chem/a900.i/d063094.b/d8788.d

Date : 30-JUN-94 15:16

Instrument : a900.i

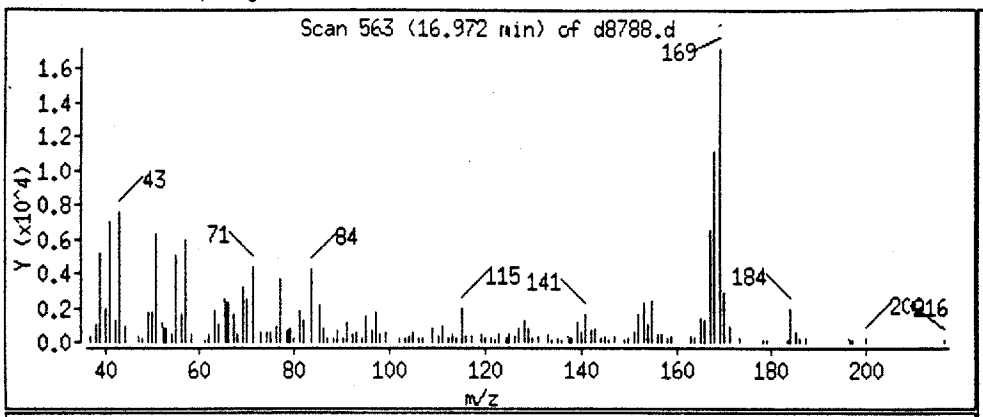
Sample ID :

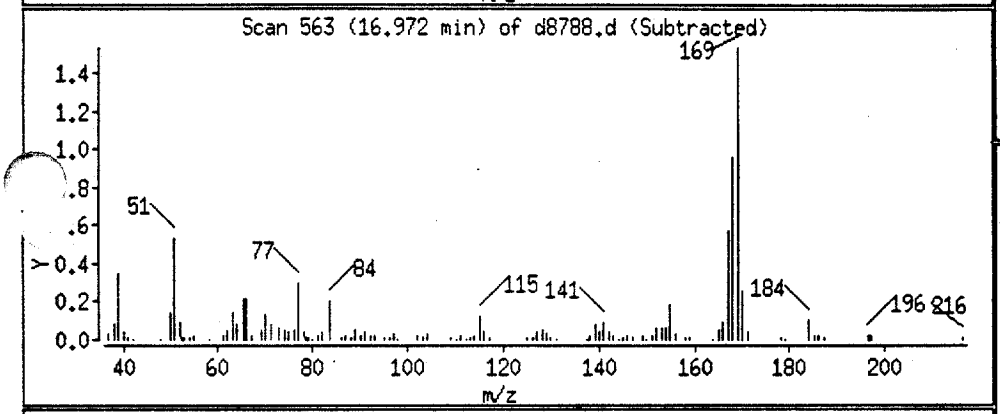
Column phase : J&W DB-5

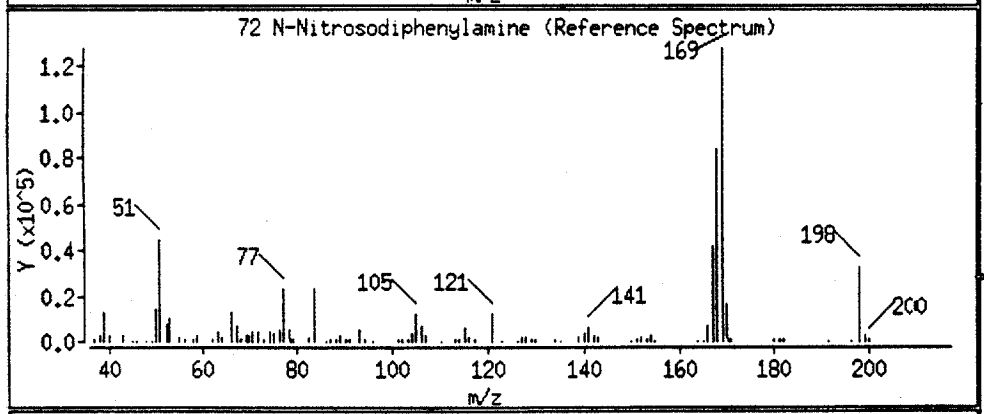
Column diameter : 0.25

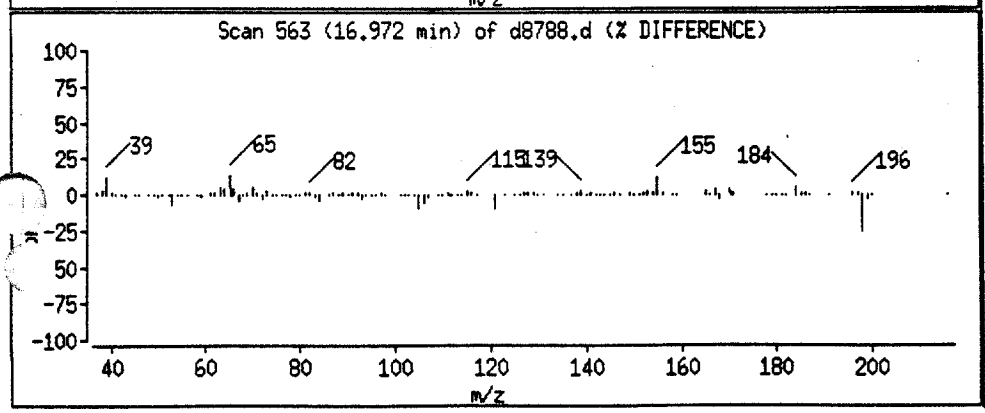
Volume Injected (uL) : 1.0

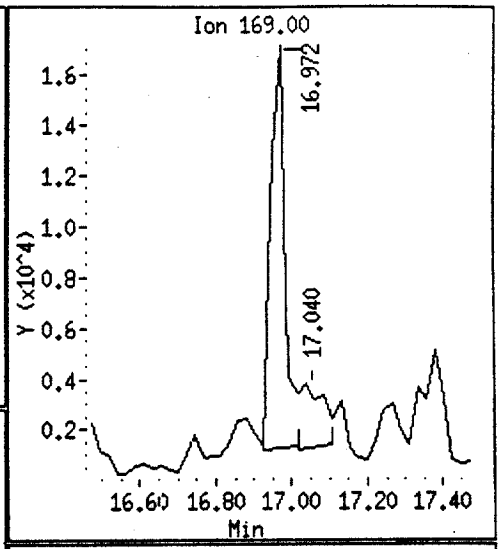
72 N-Nitrosodiphenylamine

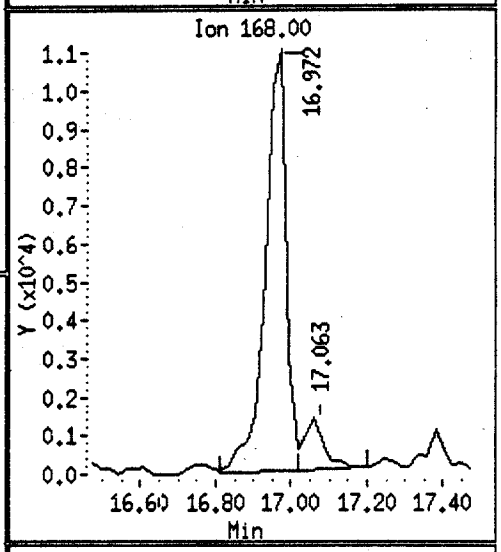


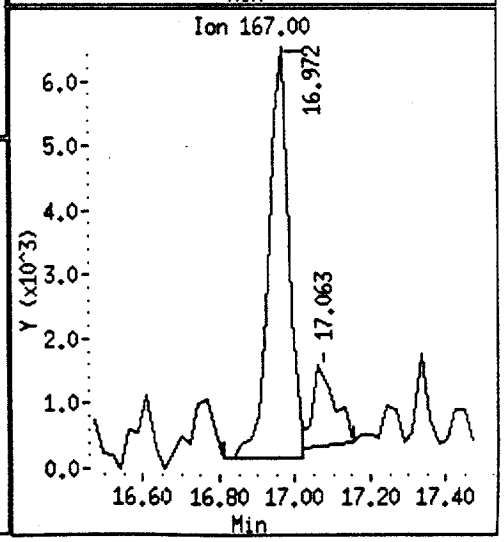












Data File: /chem/a900.i/d063094.b/d8788.d

Date : 30-JUN-94 15:16

Instrument : a900.i

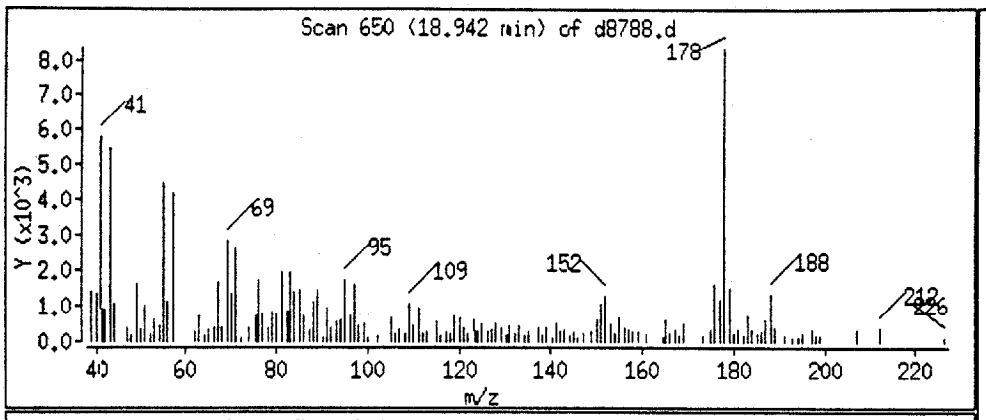
Sample ID :

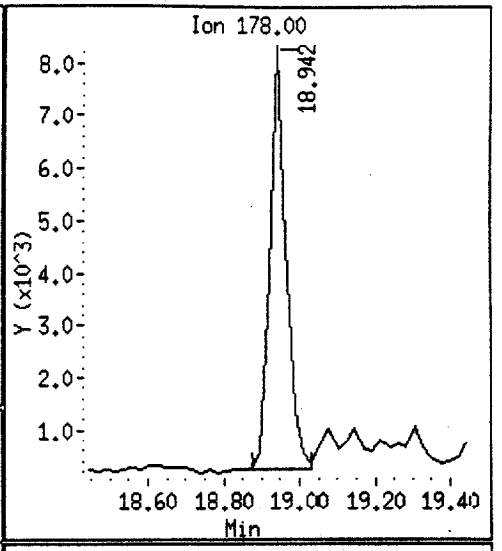
Column phase : J&W DB-5

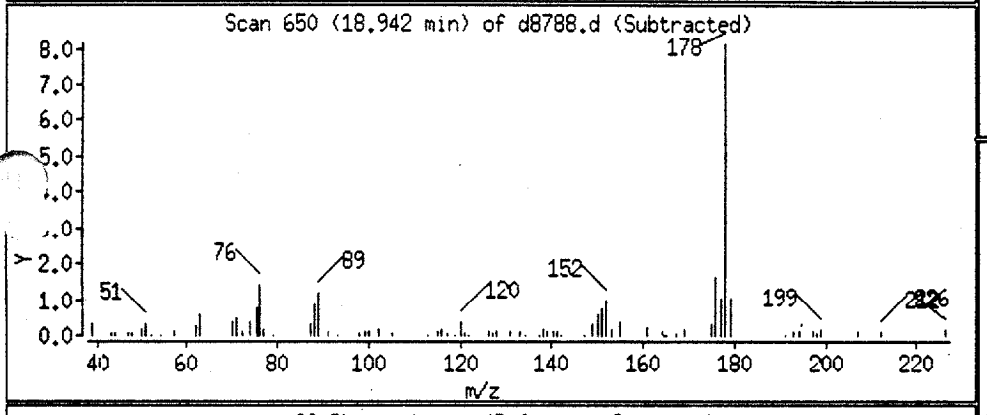
Column diameter : 0.25

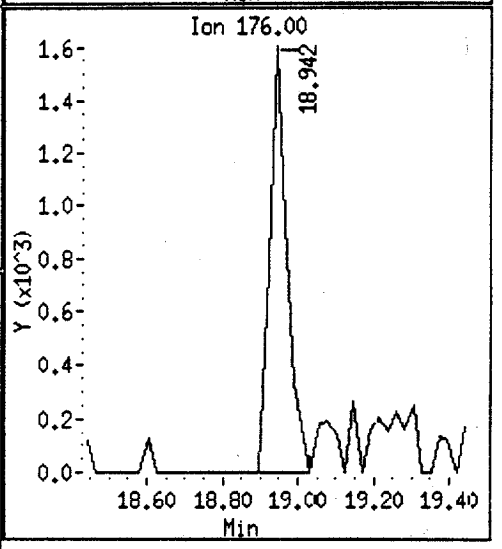
Volume Injected (uL) : 1.0

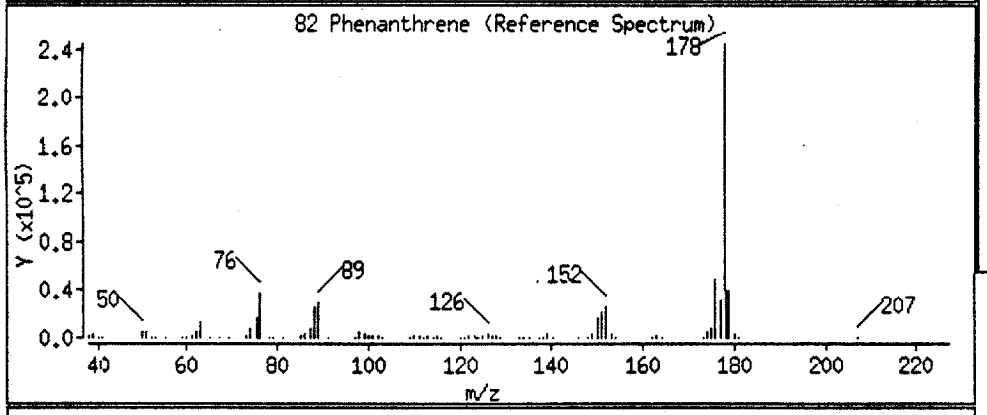
82 Phenanthrene

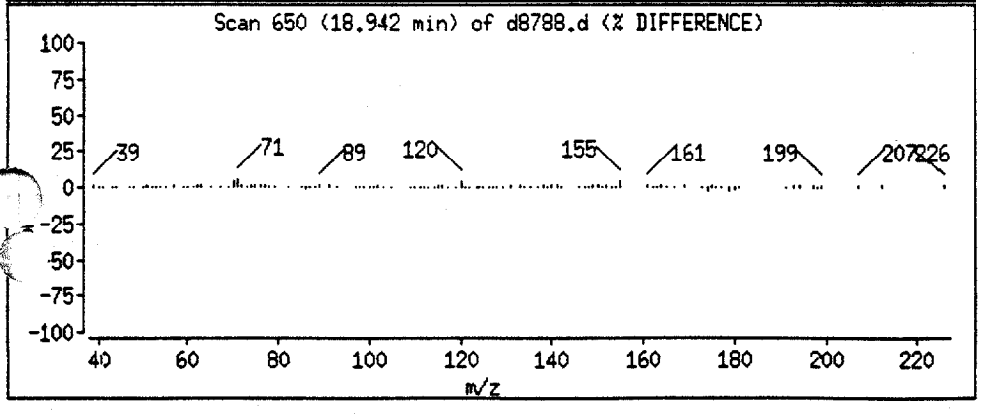












Data File: /chem/a900.i/d063094.b/d8788.d

Date : 30-JUN-94 15:16

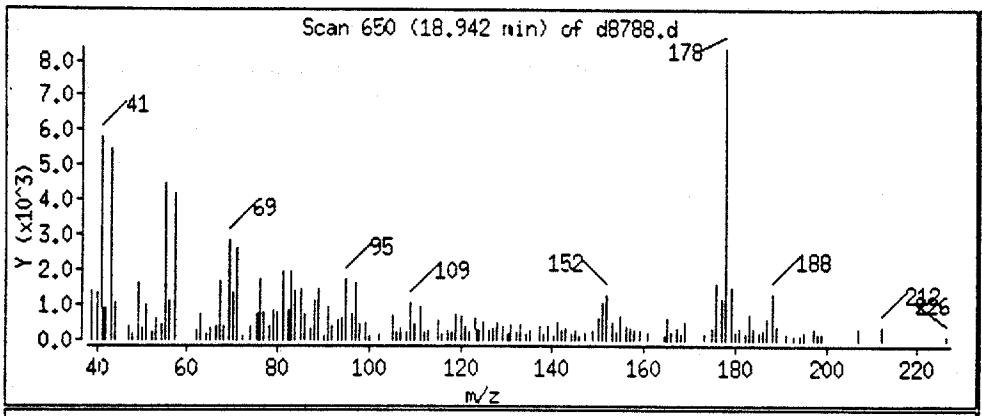
Instrument : a900.i

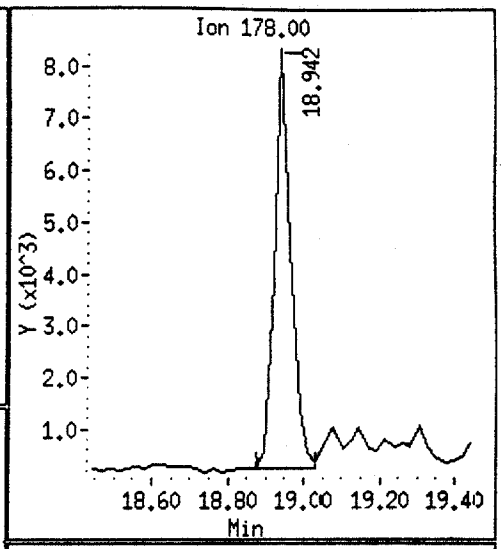
Sample ID :

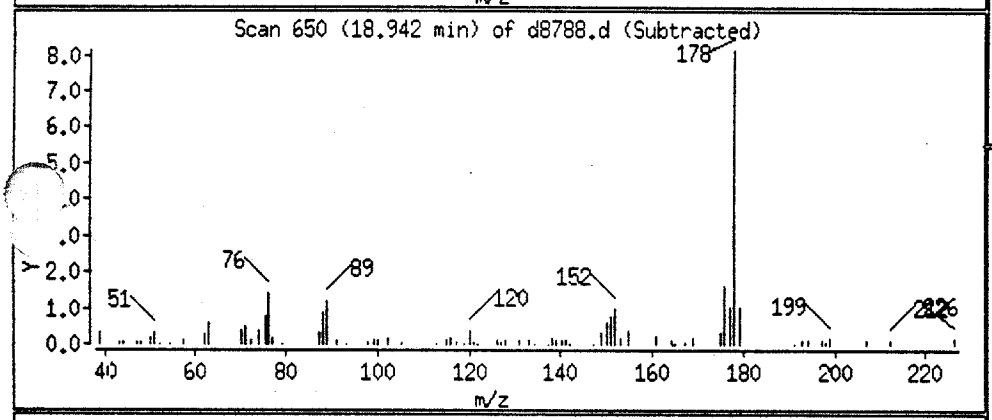
Column phase : J&W DB-5 Column diameter : 0.25

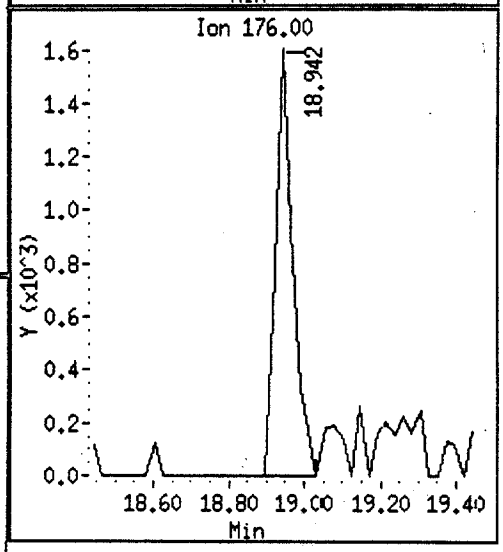
Volume Injected (uL) : 1.0

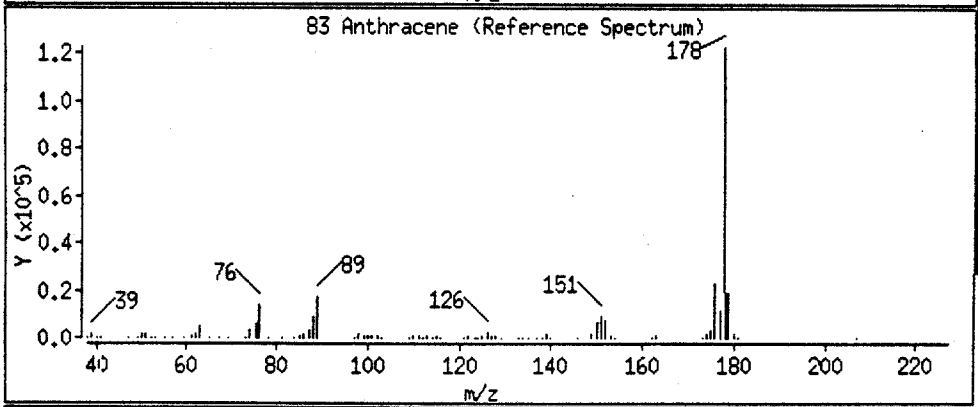
83 Anthracene

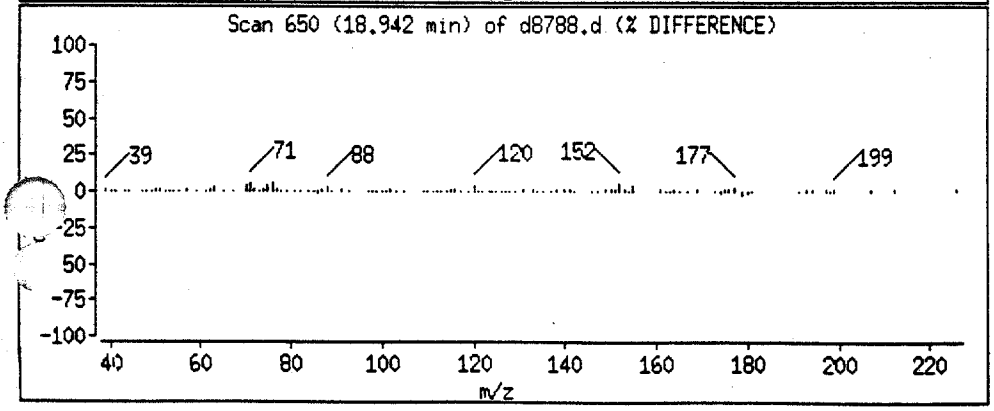












Data File: /chem/a900.i/d063094.b/d8788.d

Date : 30-JUN-94 15:16

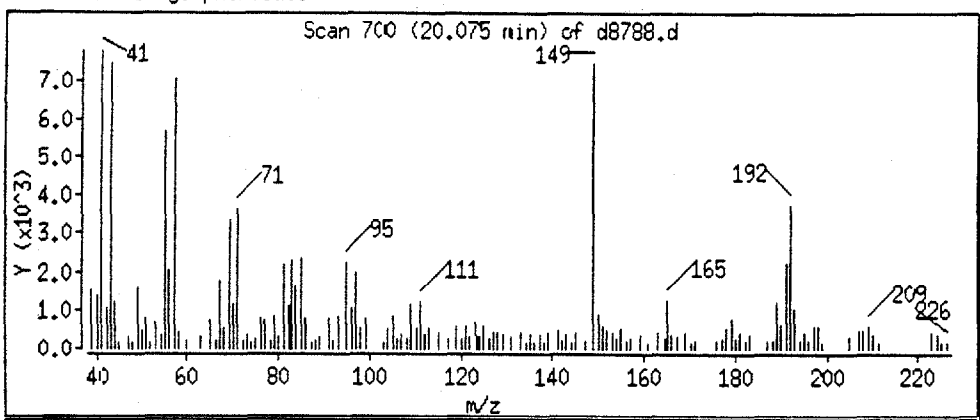
Instrument : a900.i

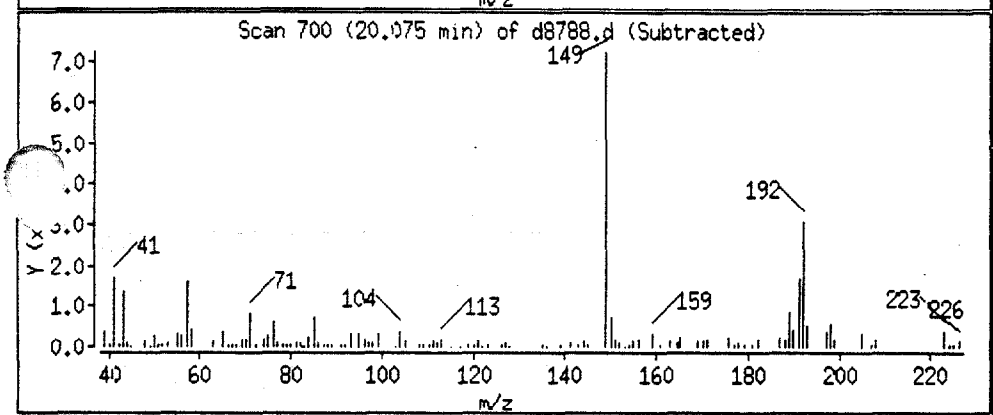
Sample ID :

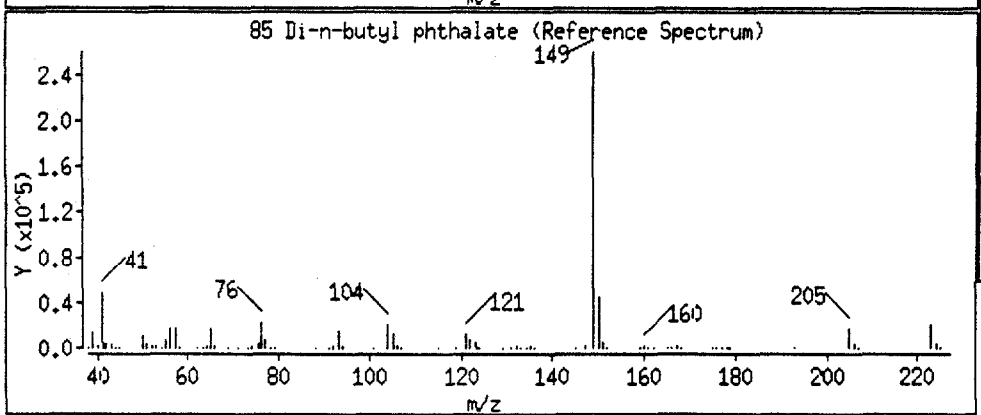
Column phase : J&W DB-5 Column diameter : 0.25

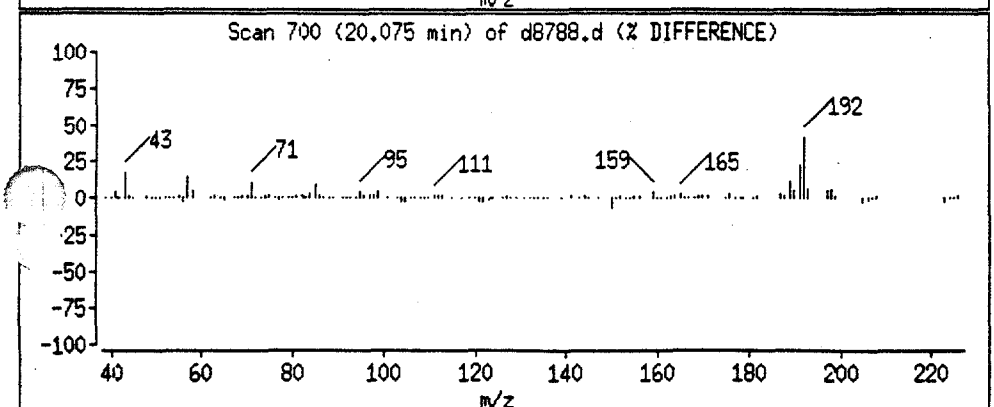
Volume Injected (uL) : 1.0

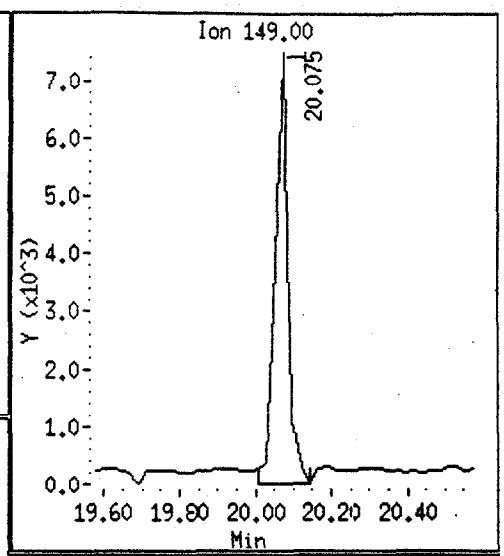
85 Di-n-butyl phthalate

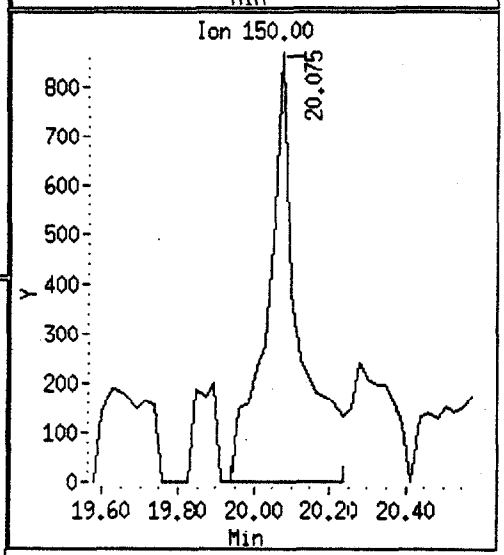






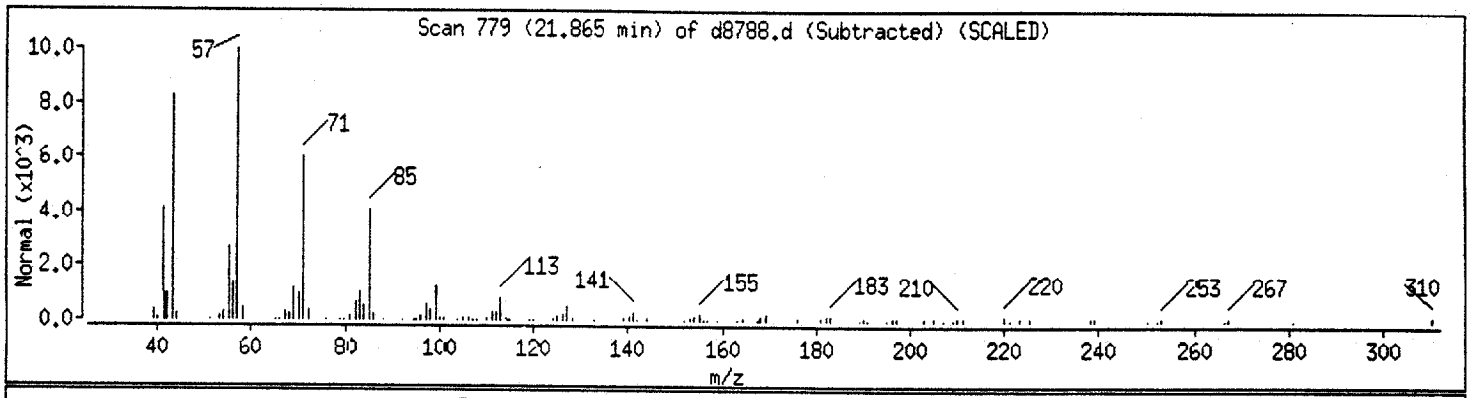


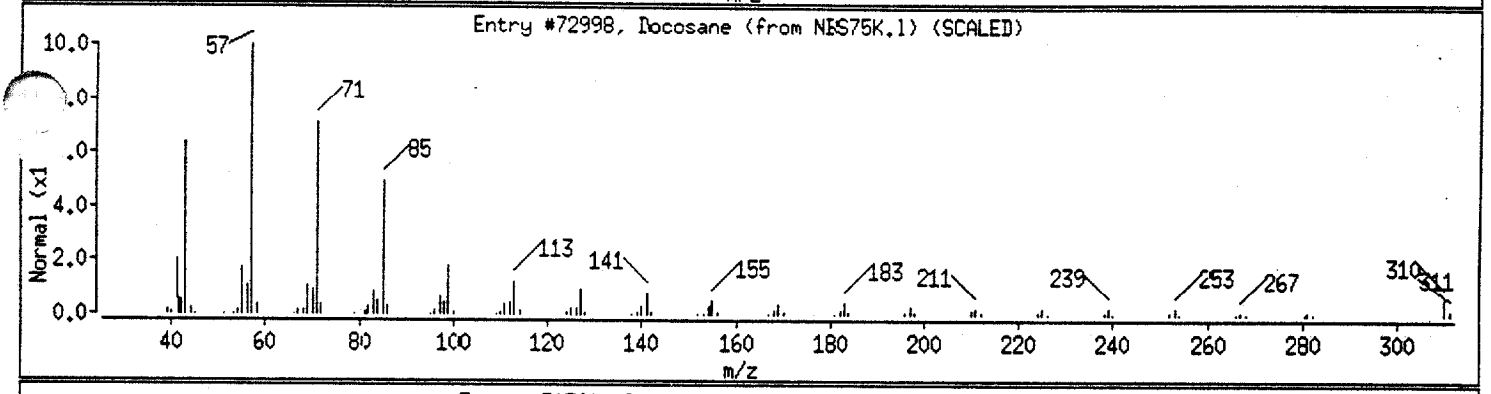


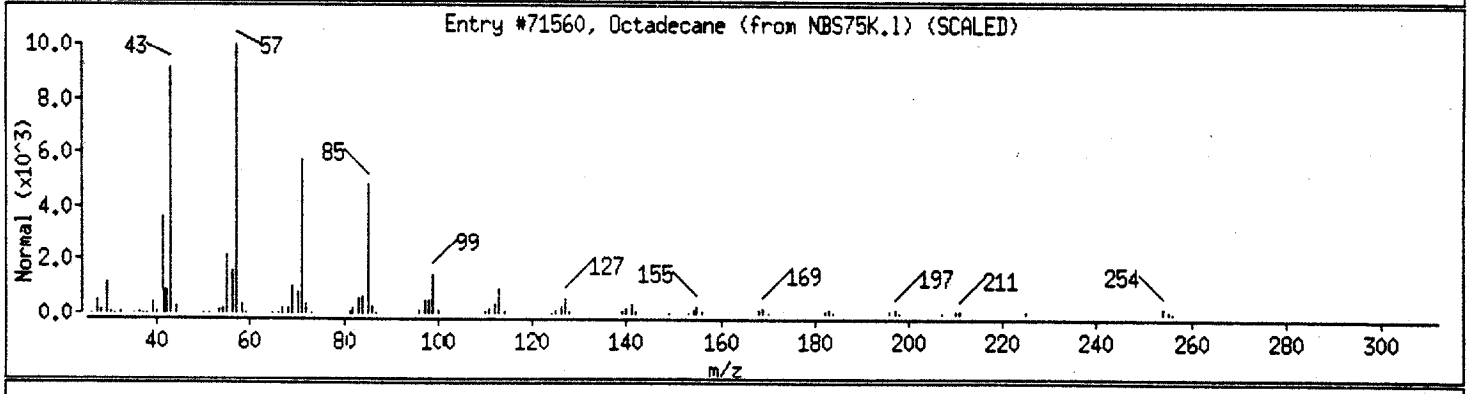


Data File: /chem/a900.i/d063094.b/d8788.d
Date : 30-JUN-94 15:16
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Docosane	629-97-0	NBS75K.1	72998	96
Octadecane	593-45-3	NBS75K.1	71560	91

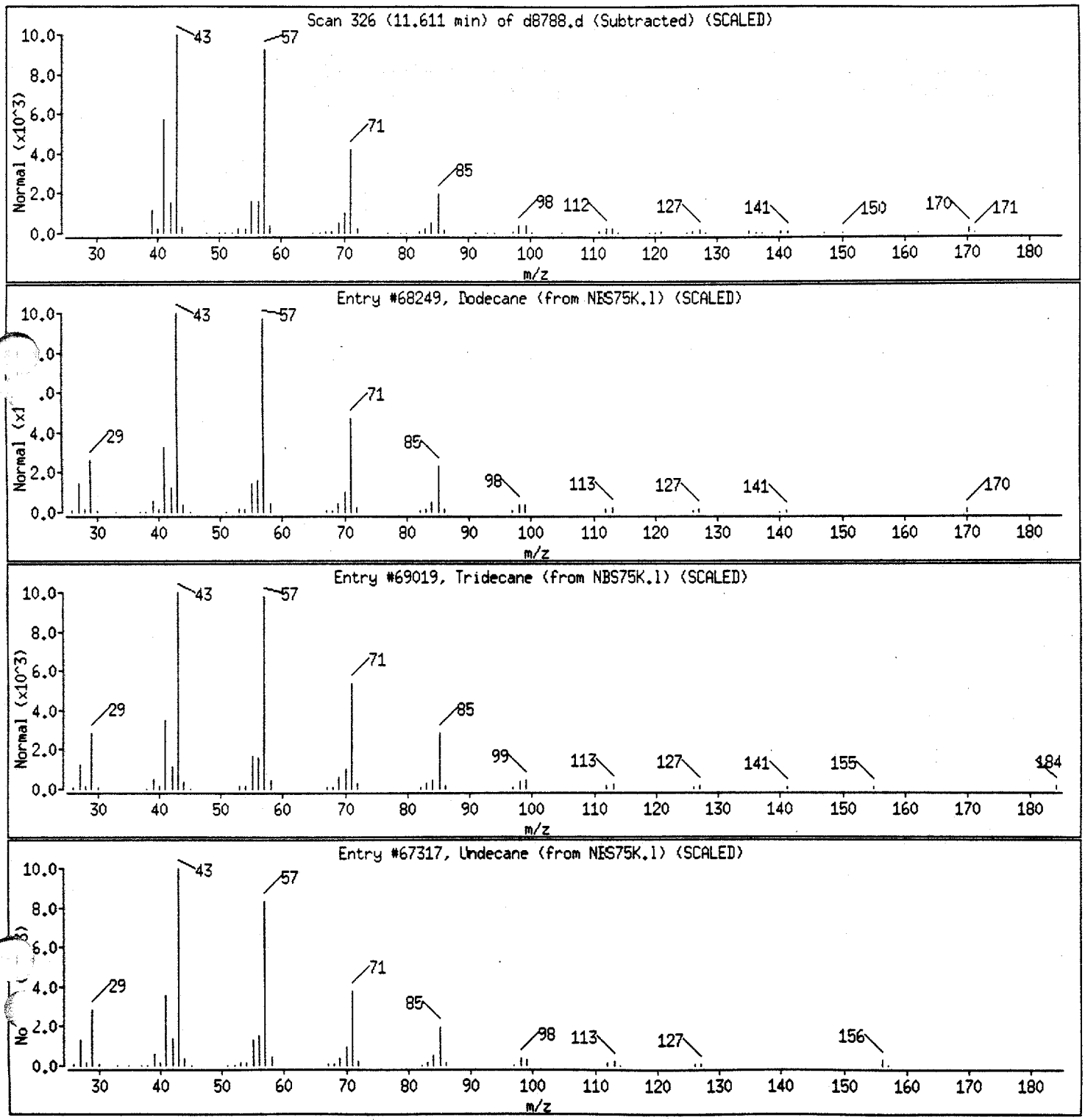






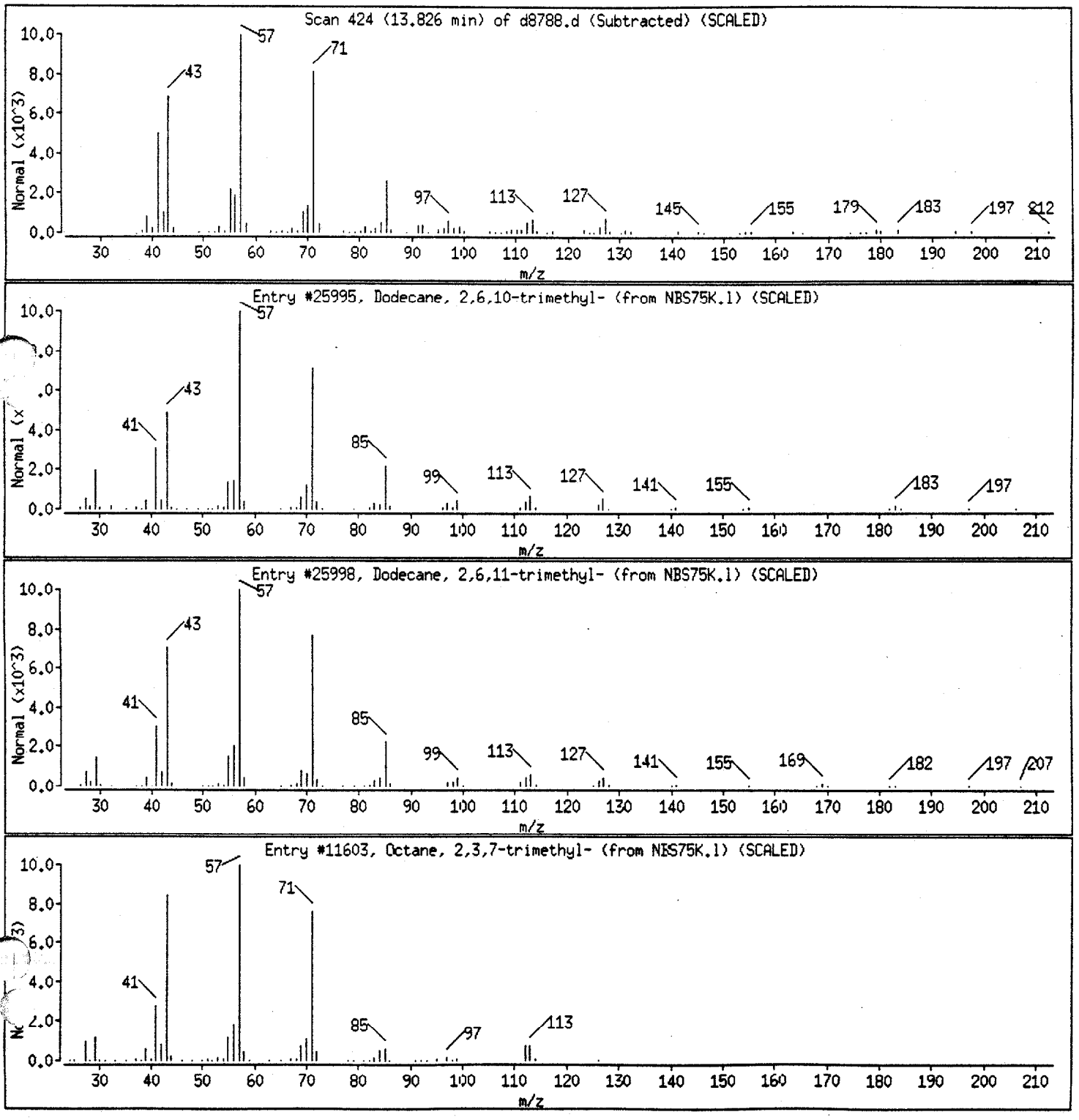
Data File: /chem/a900.i/d063094.b/d8788.d
Date : 30-JUN-94 15:16
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Dodecane	112-40-3	NBS75K.l	68249	94
Tridecane	629-50-5	NBS75K.l	69019	90
Undecane	1120-21-4	NBS75K.l	67317	90



Data File: /chem/a900.i/d063094.b/d8788.d
Date : 30-JUN-94 15:16
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

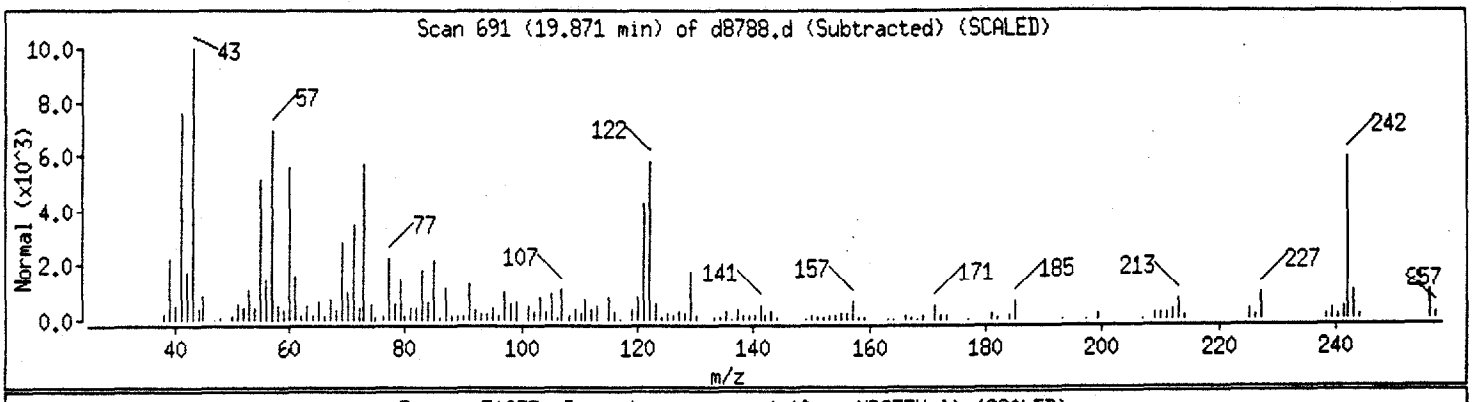
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Dodecane, 2,6,10-trimethyl-	3891-98-3	NBS75K.1	25995	90
Dodecane, 2,6,11-trimethyl-	31295-56-4	NBS75K.1	25998	83
Octane, 2,3,7-trimethyl-	62016-34-6	NBS75K.1	11603	72

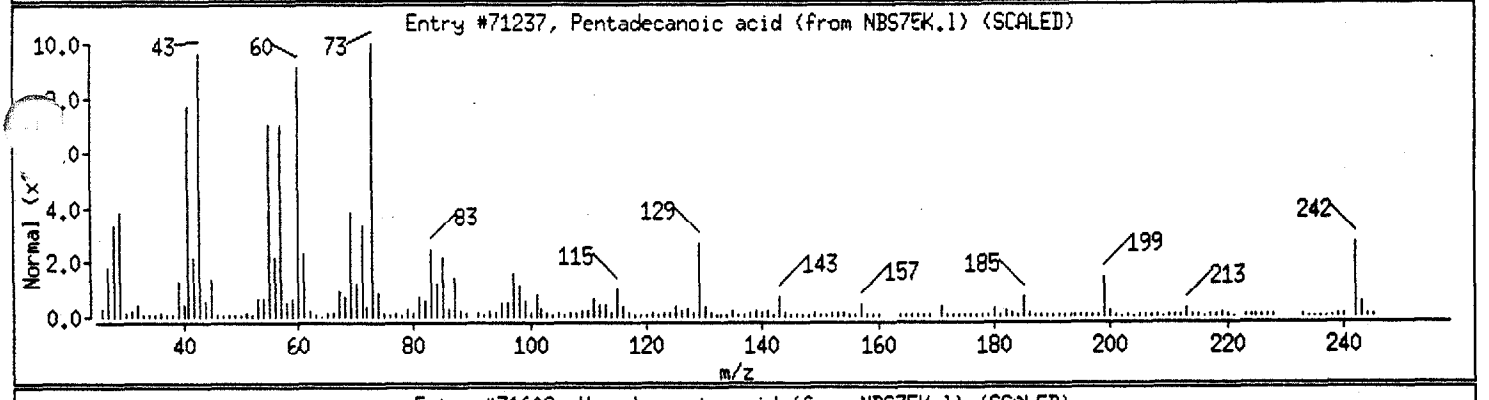


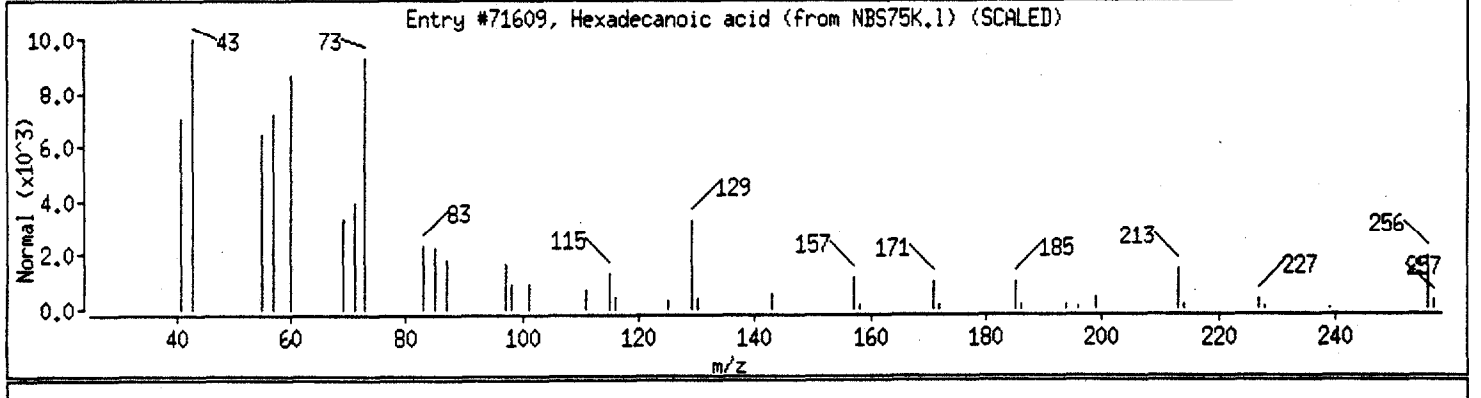
Data File: /chem/a900.i/d063094.b/d8788.d

Date : 30-JUN-94 15:16
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Pentadecanoic acid	1002-84-2	NBS75K.1	71237	95
Hexadecanoic acid	57-10-3	NBS75K.1	71609	78

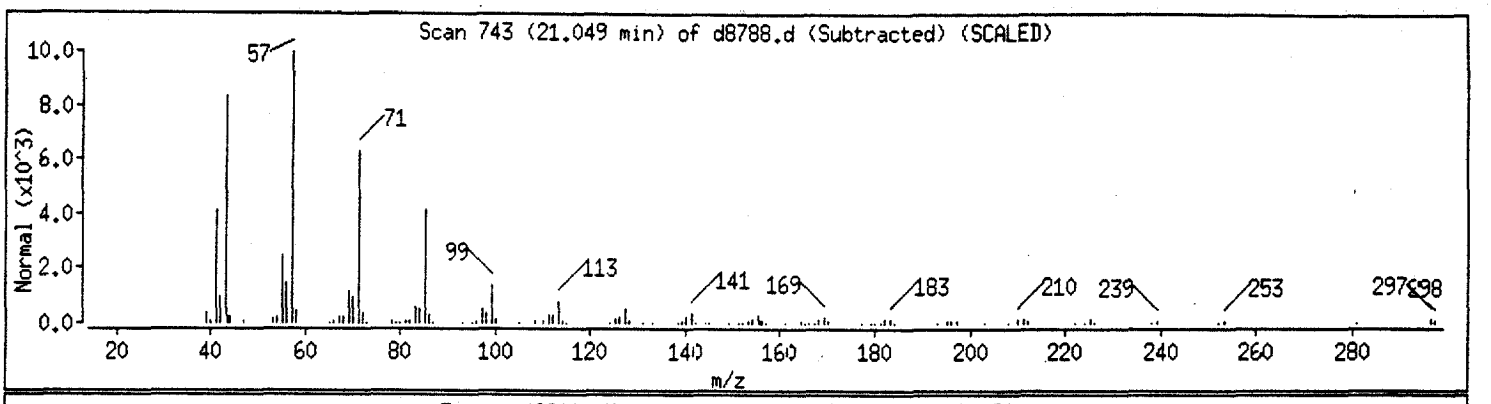


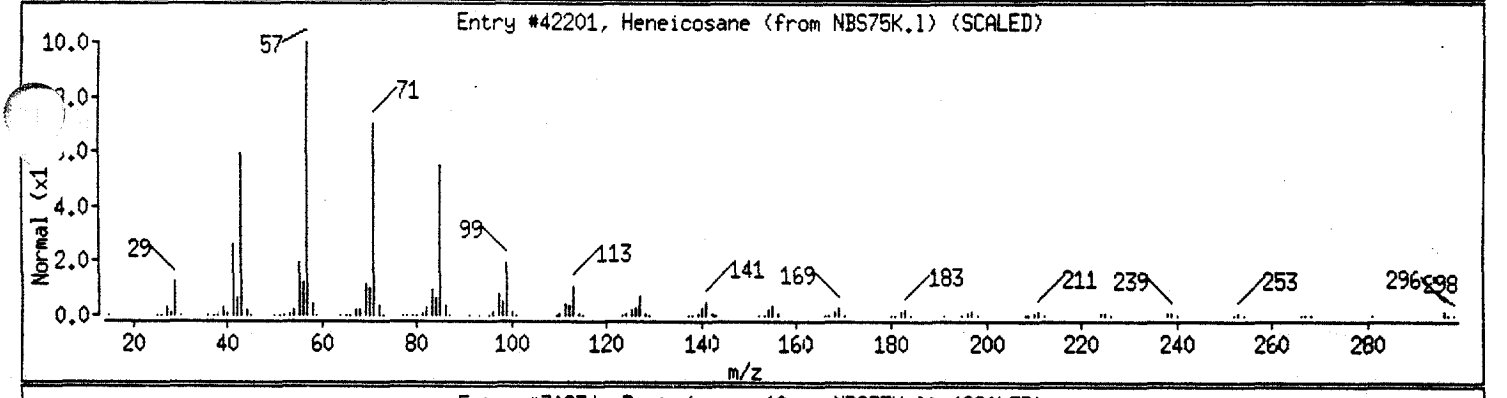


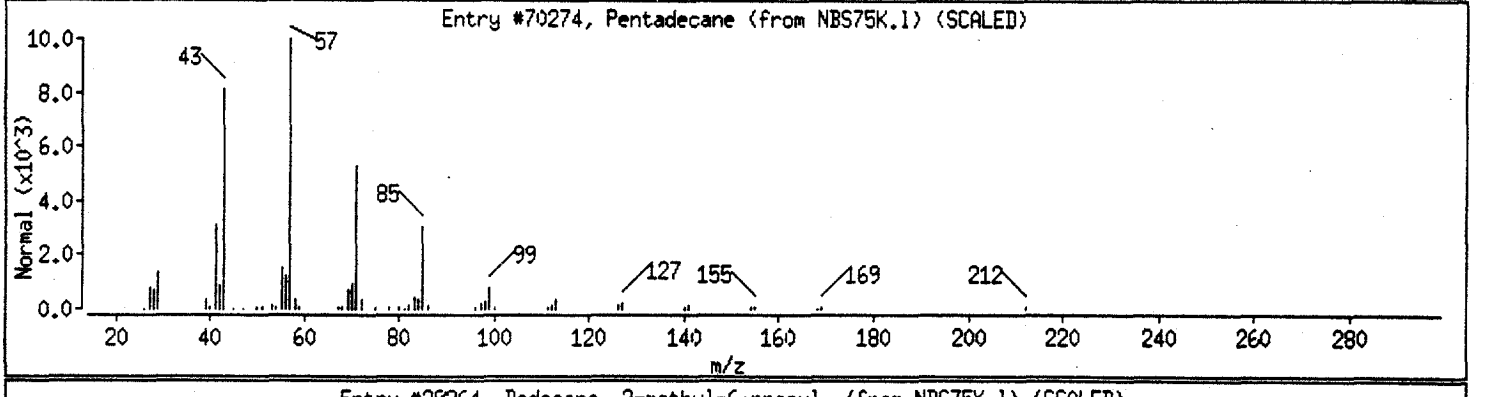


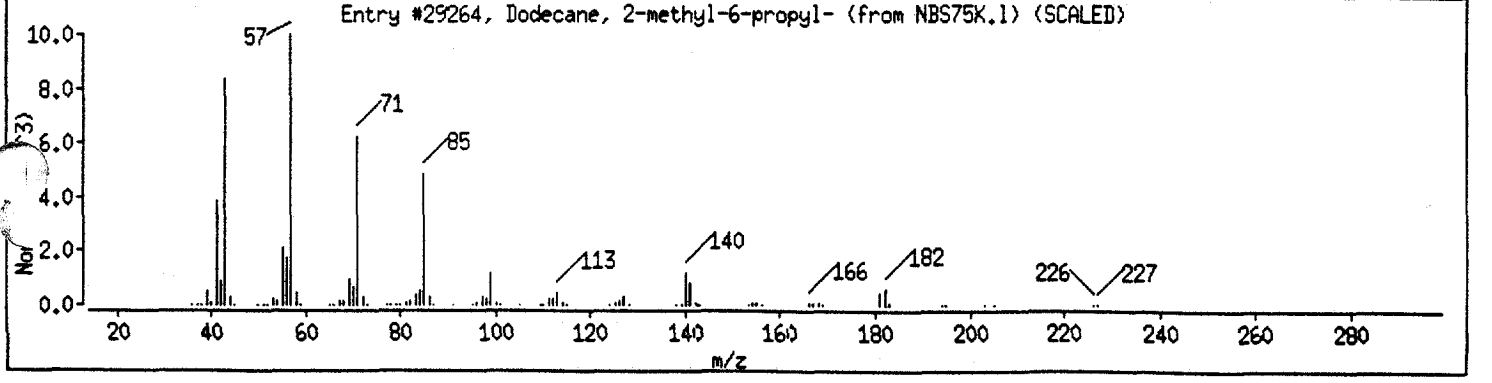
Data File: /chem/a900.i/d063094.b/d8788.d
Date : 30-JUN-94 15:16
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Heneicosane	629-94-7	NBS75K.1	42201	99
Pentadecane	629-62-9	NBS75K.1	70274	93
Dodecane, 2-methyl-6-propyl-	55045-08-4	NBS75K.1	29264	93



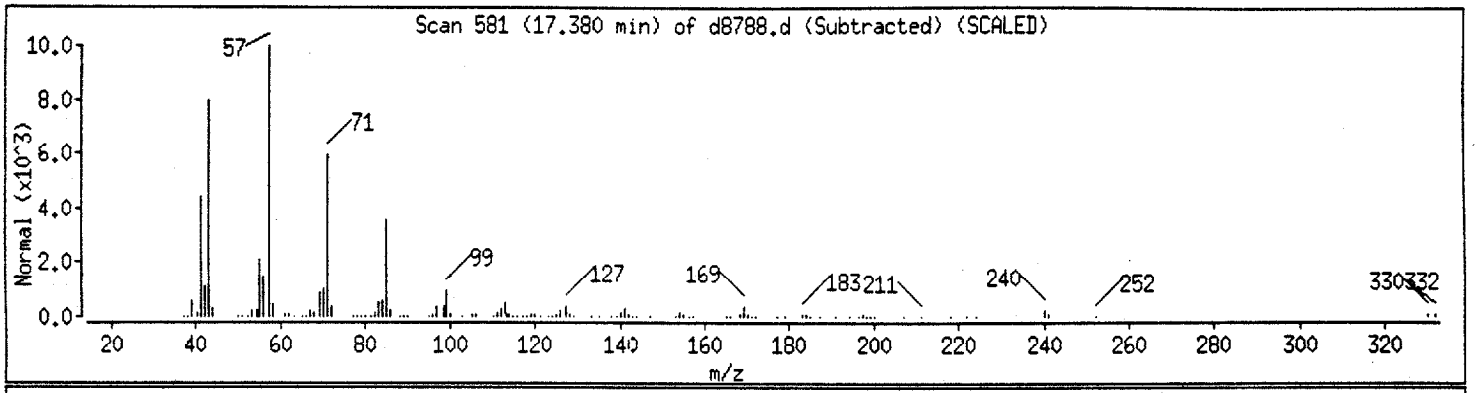


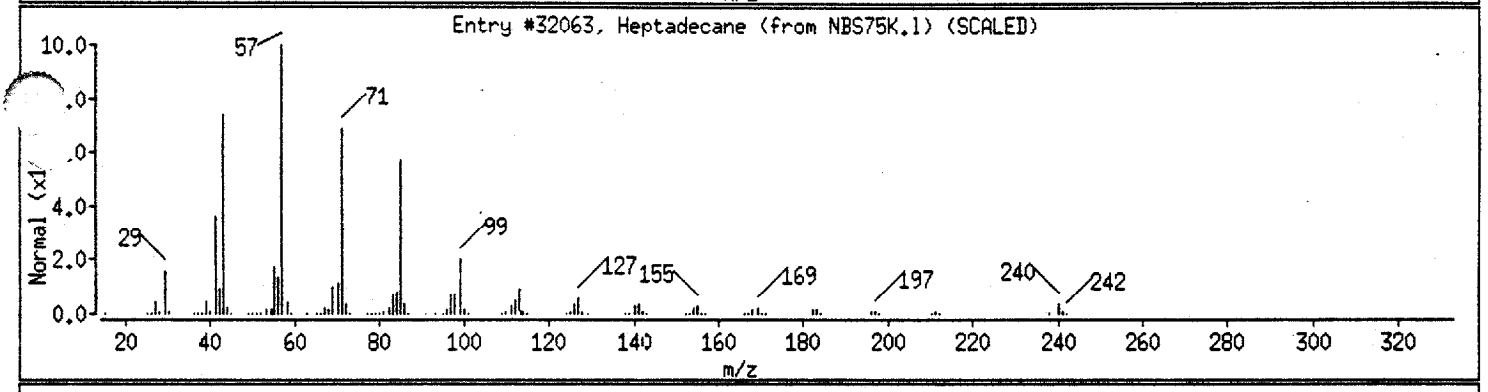


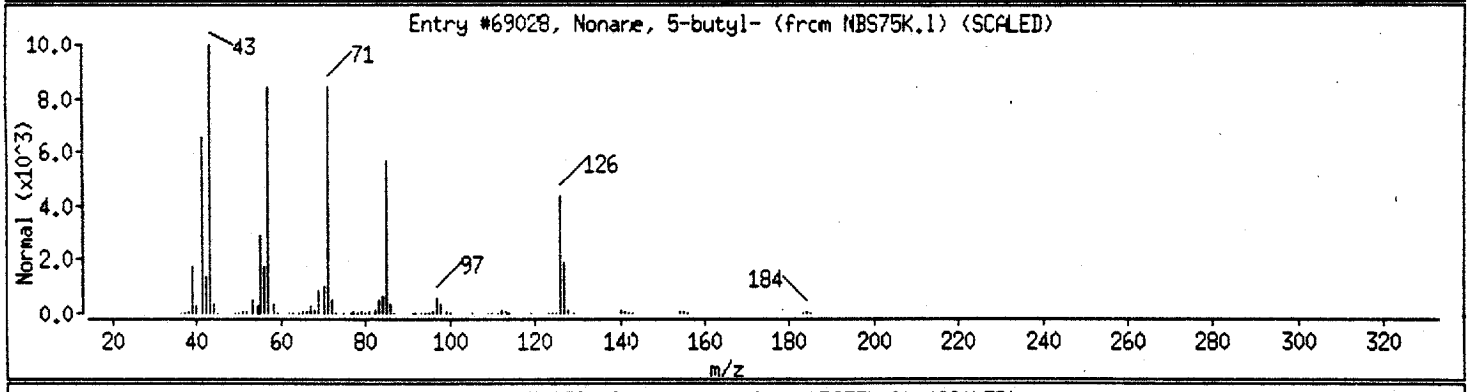


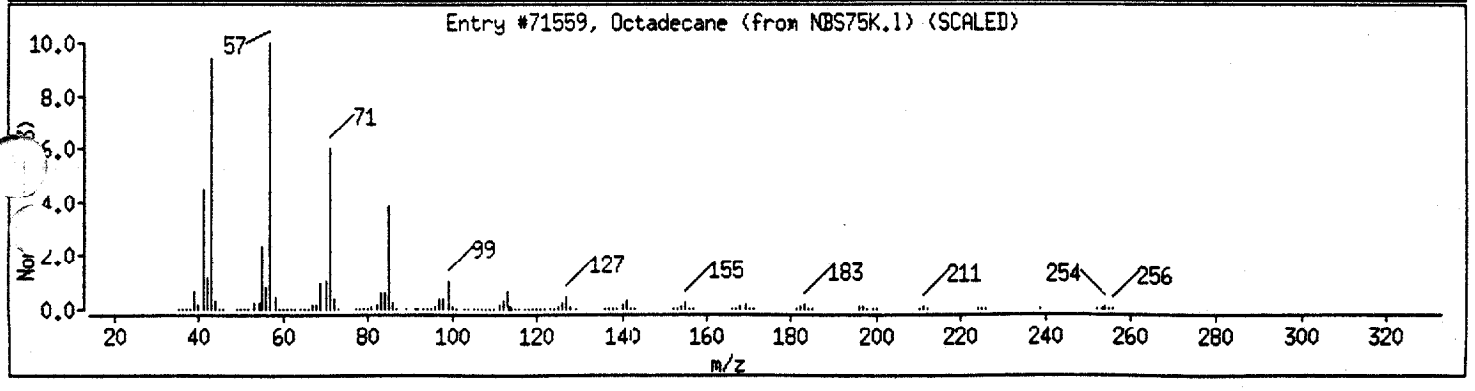
Data File: /chem/a900.i/d063094.b/d8788.d
Date : 30-JUN-94 15:16
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Heptadecane	629-78-7	NBS75K.1	32063	97
Nonane, 5-butyl-	17312-63-9	NBS75K.1	69028	92
Octadecane	593-45-3	NBS75K.1	71559	91



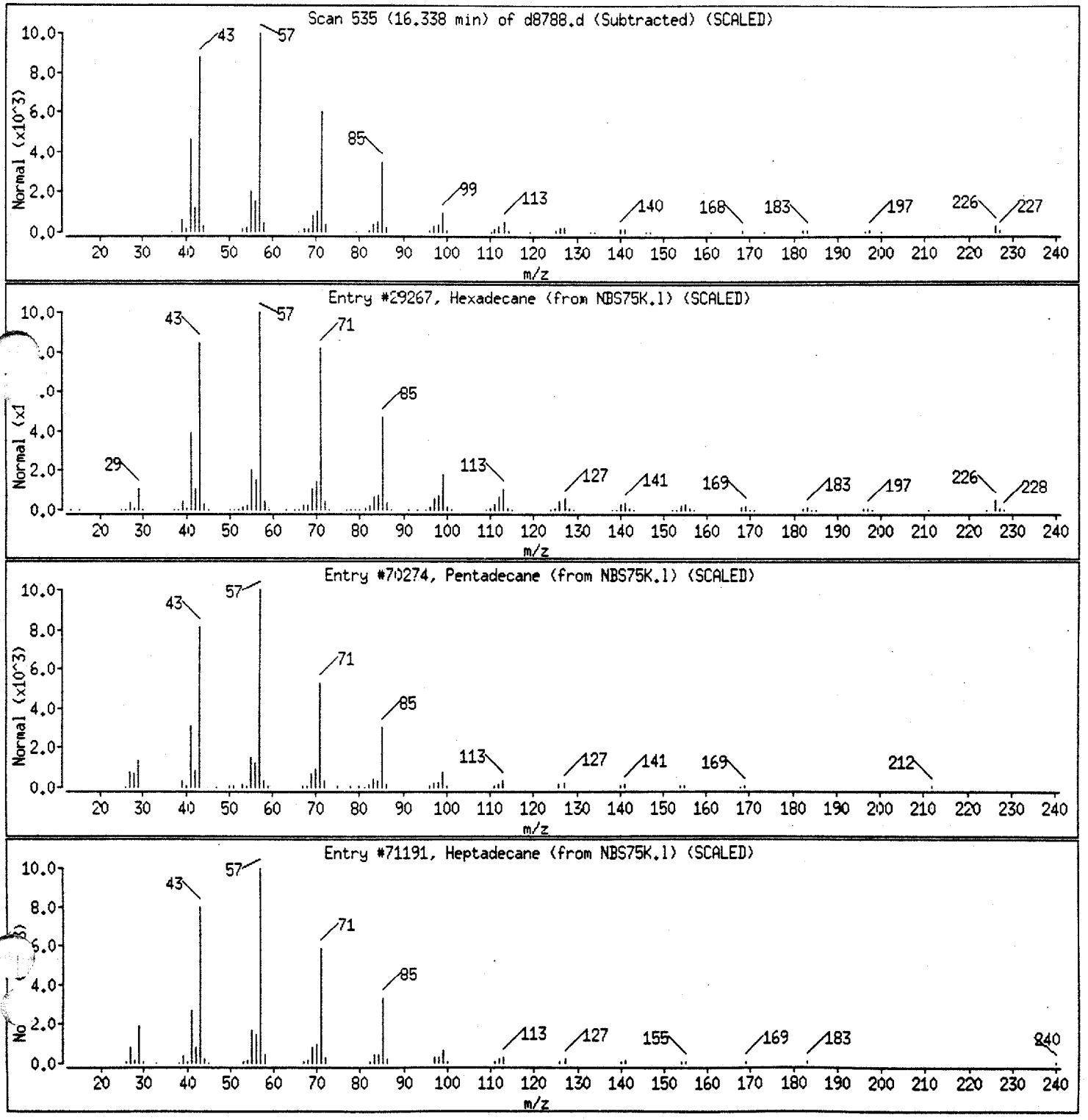






Data File: /chem/a900.1/d063094.b/d8788.d
Date : 30-JUN-94 15:16
Instrument : a900.1
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 1.0

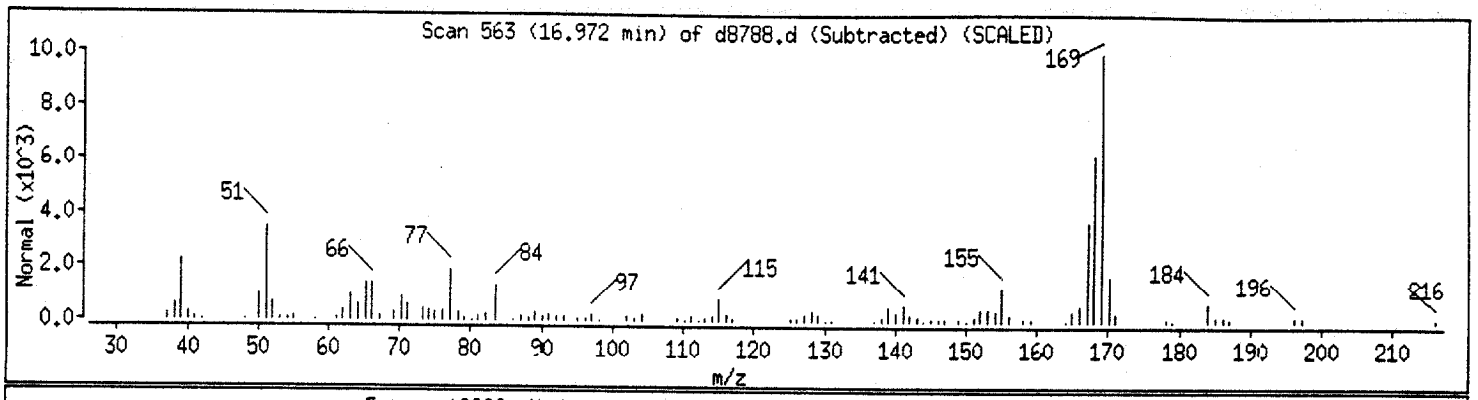
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Hexadecane	544-76-3	NBS75K.1	29267	96
Pentadecane	629-62-9	NBS75K.1	70274	91
Heptadecane	629-78-7	NBS75K.1	71191	91

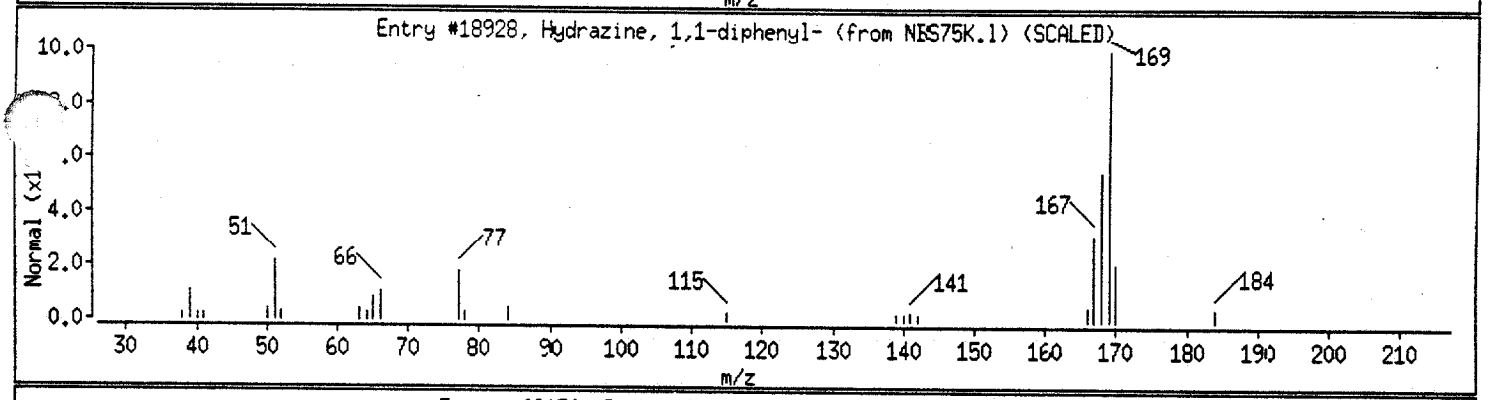


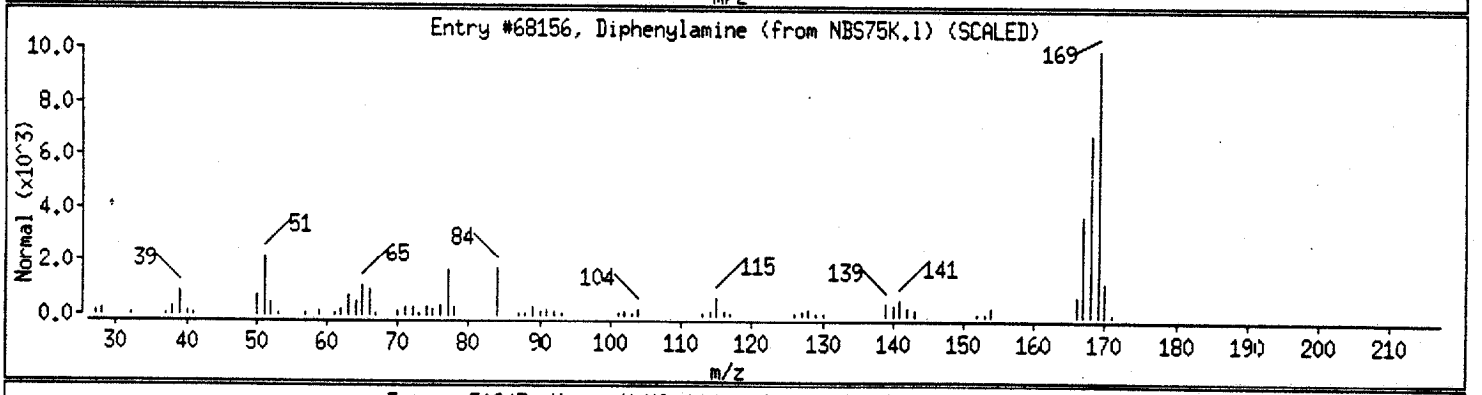
Data File: /chem/a900.i/d063094.b/d8788.d
Date : 30-JUN-94 15:16
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Volume Injected (uL) : 1.0

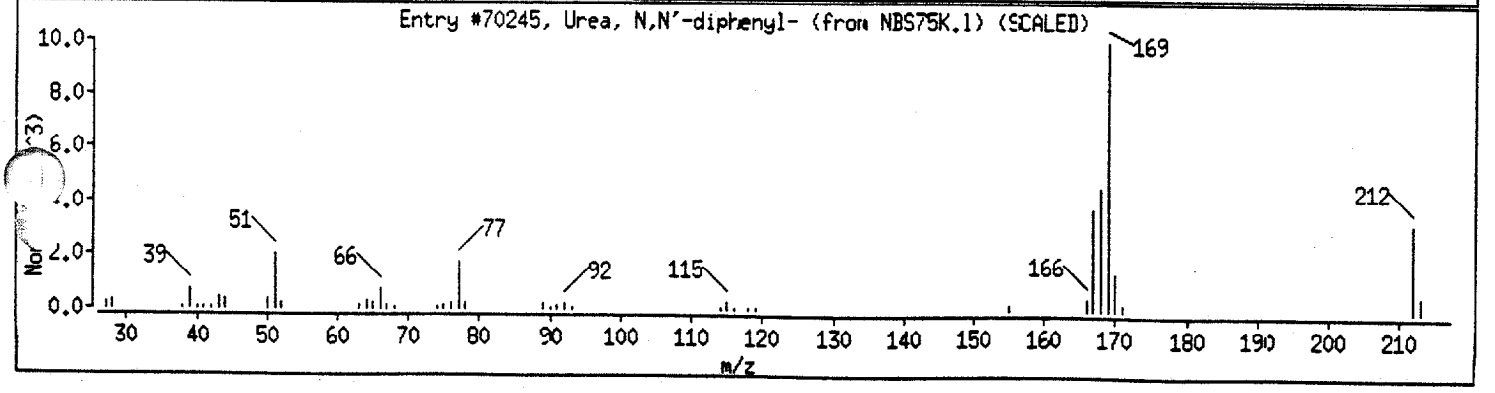
Column diameter : 0.25

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Hydrazine, 1,1-diphenyl-	530-50-7	NBS75K.1	18928	93
Diphenylamine	122-39-4	NBS75K.1	68156	92
Urea, N,N'-diphenyl-	102-07-8	NBS75K.1	70245	86



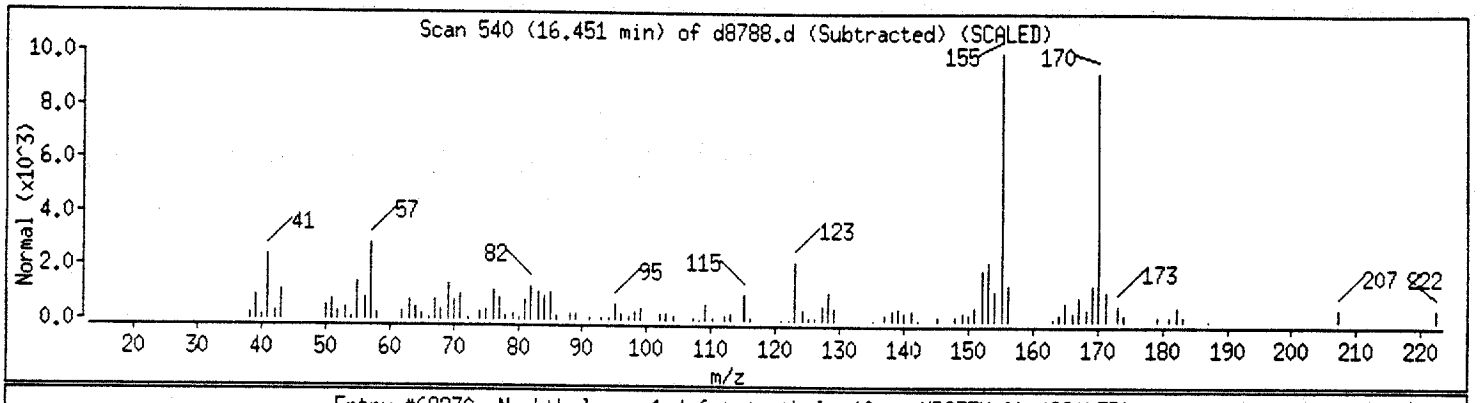


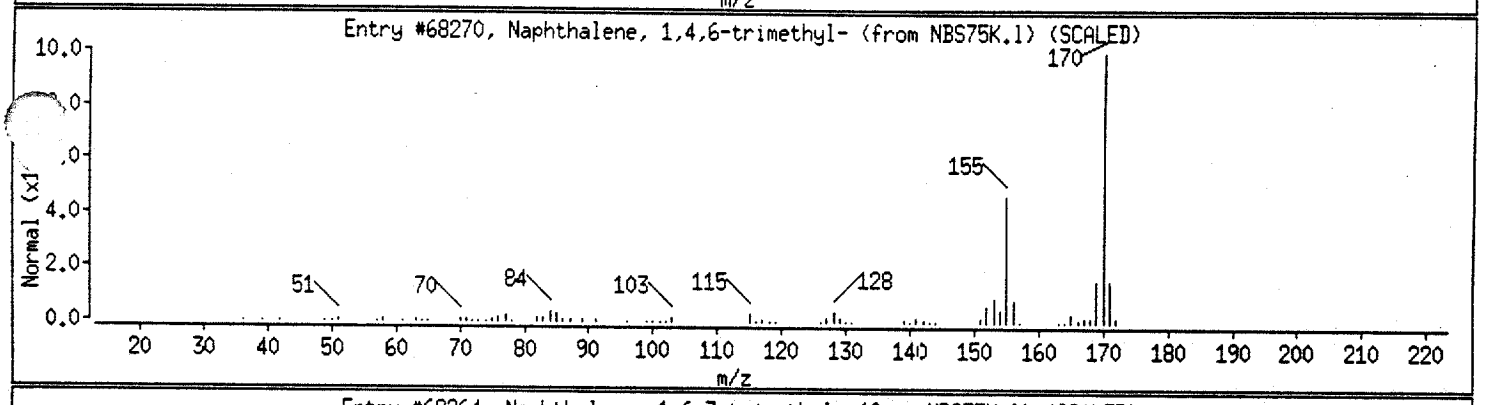


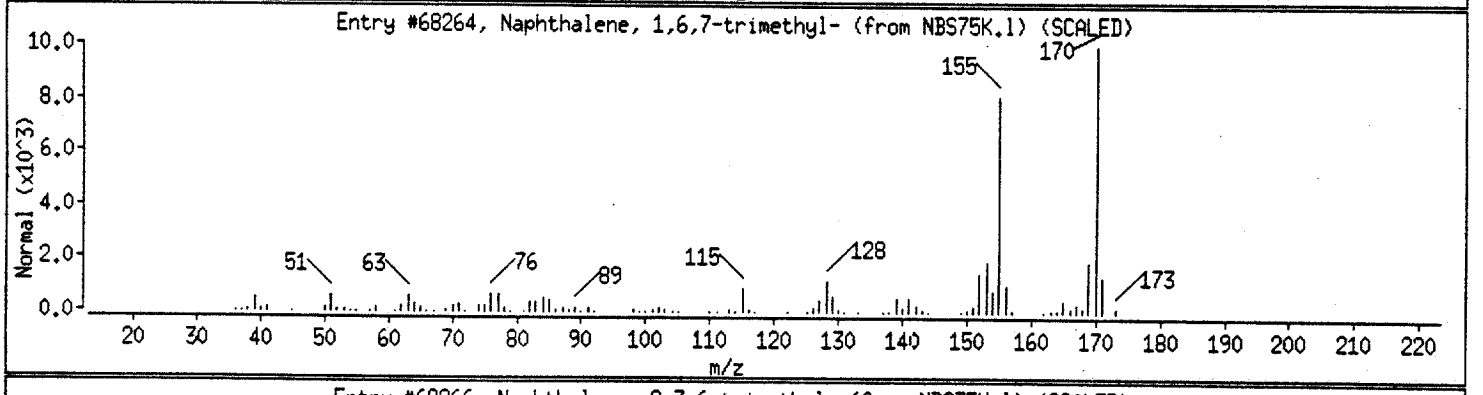


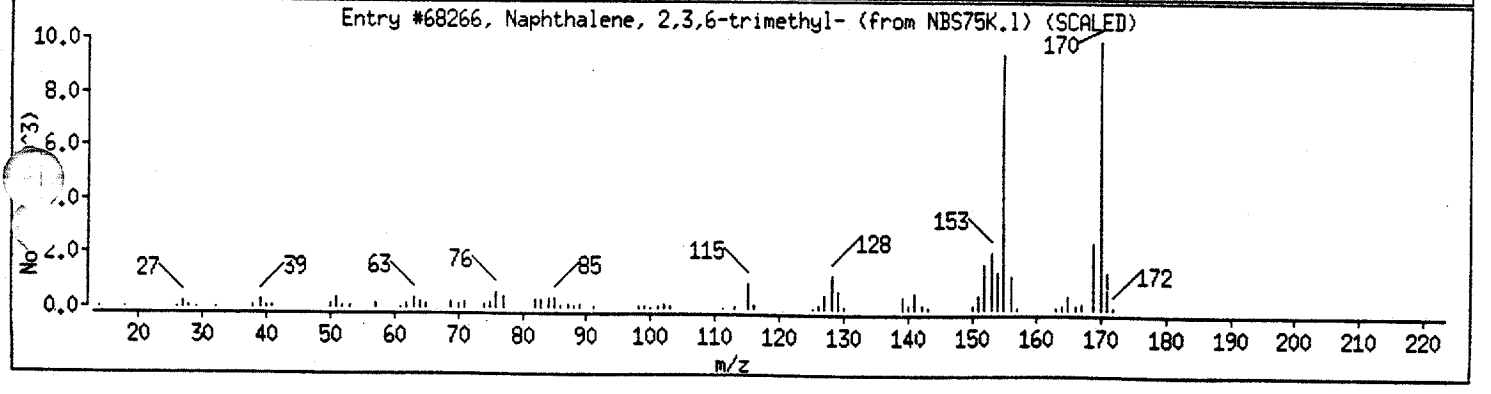
Data File: /chem/a900.i/d063094.b/d8788.d
Date : 30-JUN-94 15:16
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Naphthalene, 1,4,6-trimethyl-	2131-42-2	NBS75K.1	68270	93
Naphthalene, 1,6,7-trimethyl-	2245-38-7	NBS75K.1	68264	87
Naphthalene, 2,3,6-trimethyl-	829-26-5	NBS75K.1	68266	87



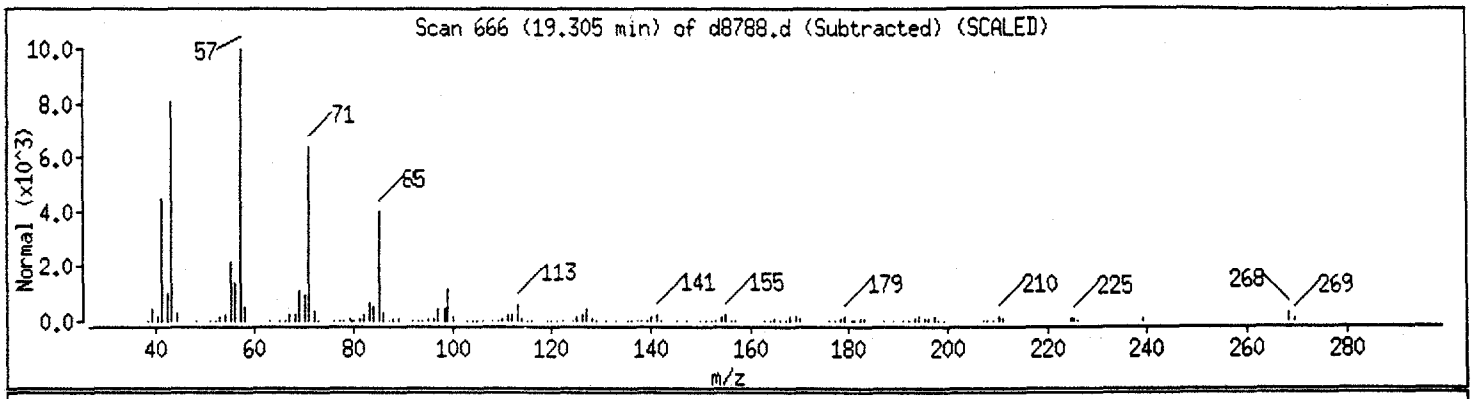


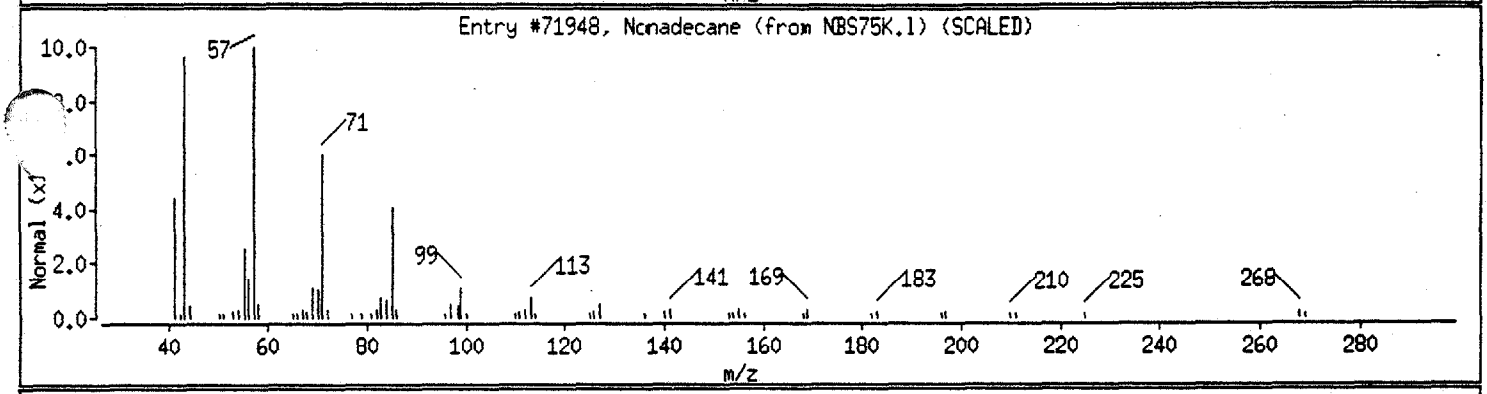


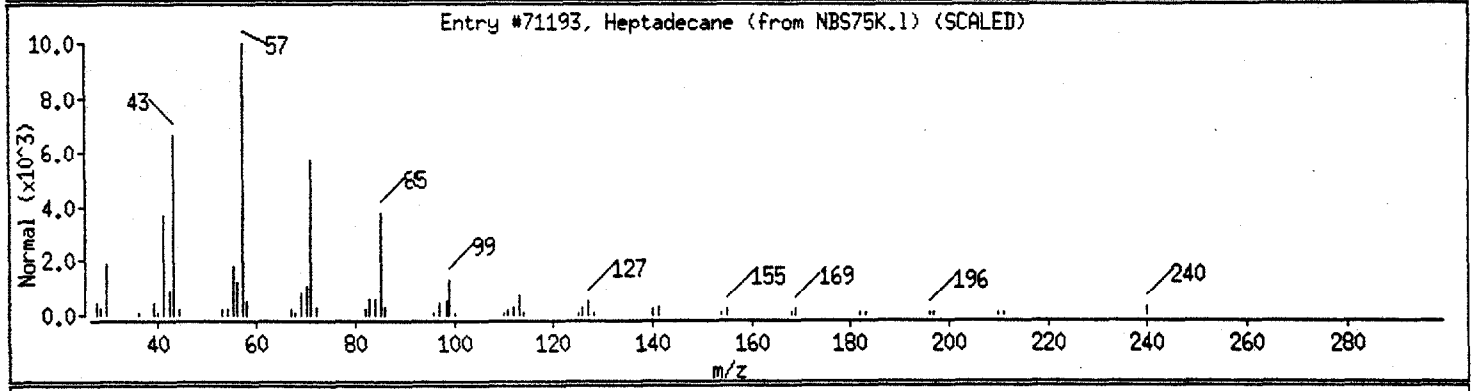


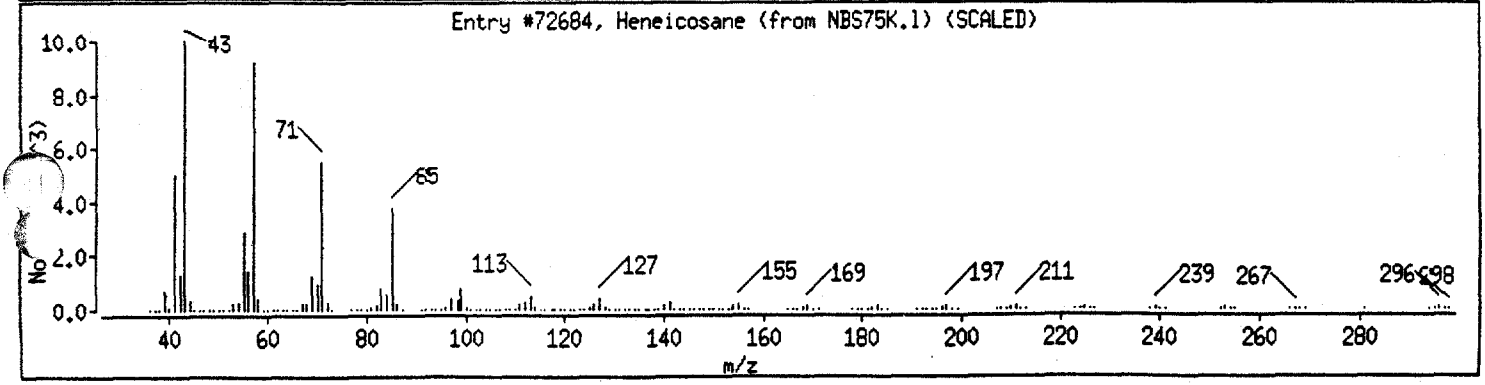
Data File: /chem/a900.i/d063094.b/d8788.d
Date : 30-JUN-94 15:16
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Nonadecane	629-92-5	NBS75K.1	71948	95
Heptadecane	629-78-7	NBS75K.1	71193	91
Heneicosane	629-94-7	NBS75K.1	72684	90



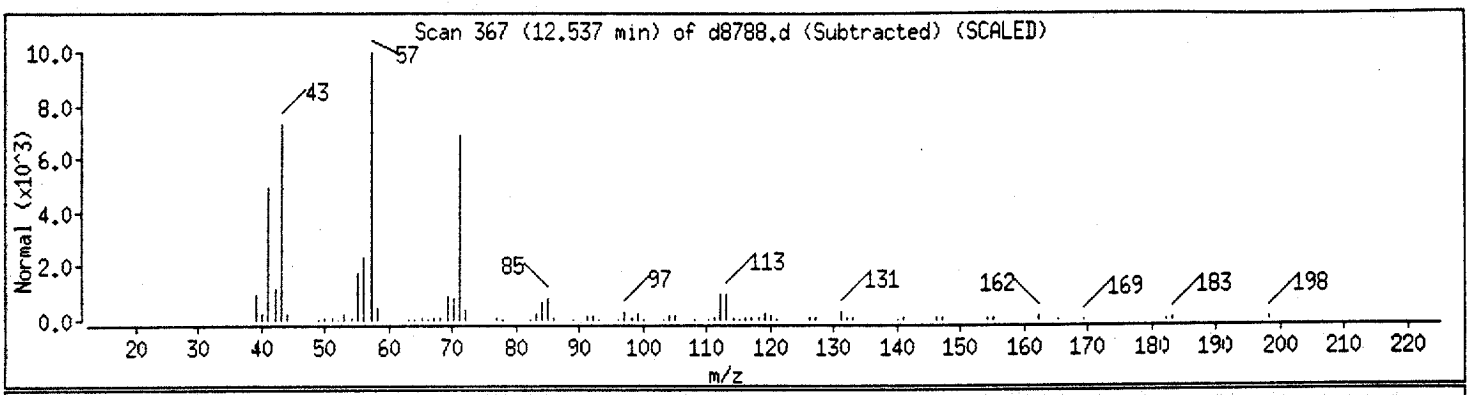


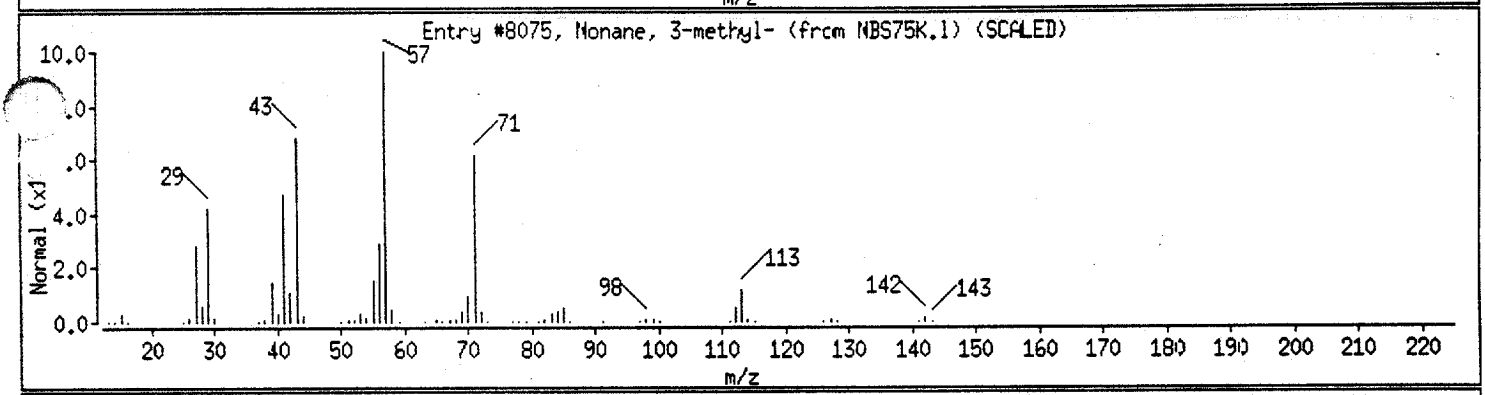


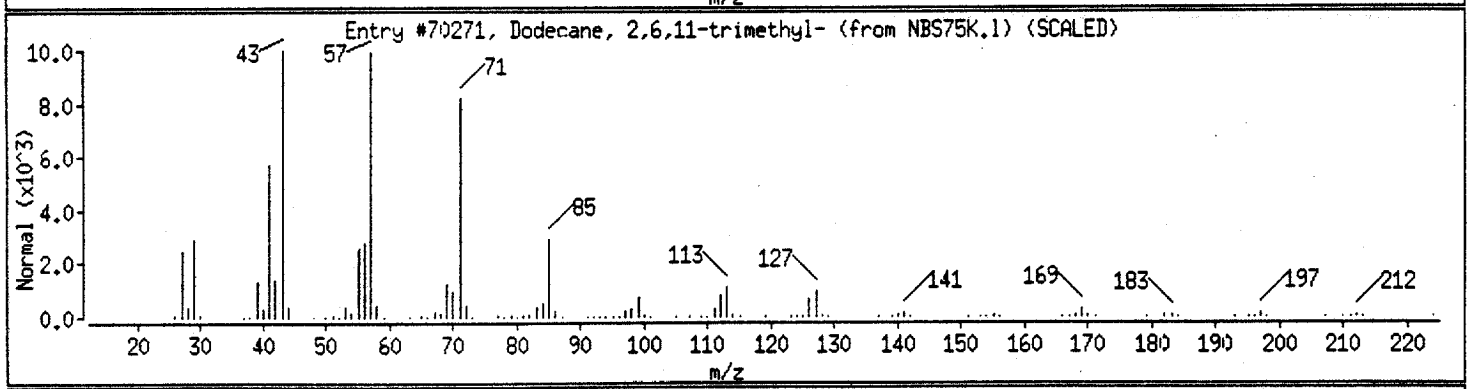


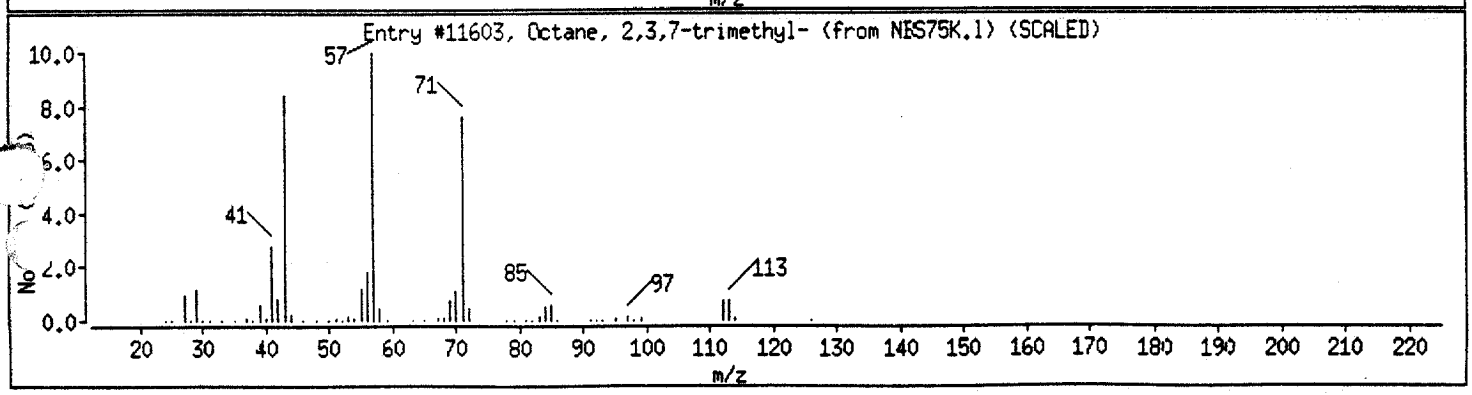
Data File: /chem/a900.i/d063094.b/d8788.d
Date : 30-JUN-94 15:16
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Nonane, 3-methyl-	5911-04-6	NBS75K.l	8075	90
Dodecane, 2,6,11-trimethyl-	31295-56-4	NBS75K.l	70271	83
Octane, 2,3,7-trimethyl-	62016-34-6	NBS75K.l	11603	80



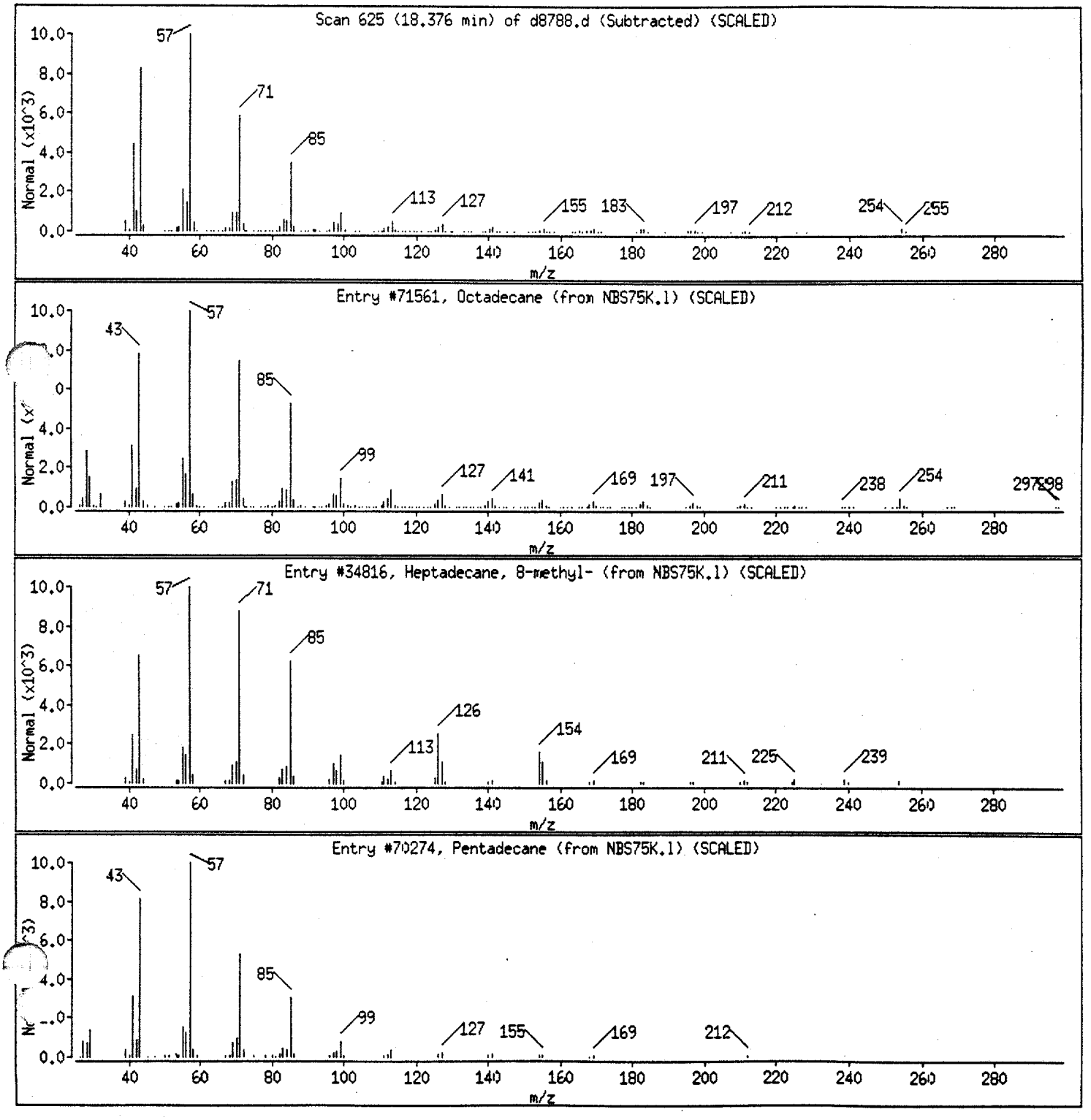






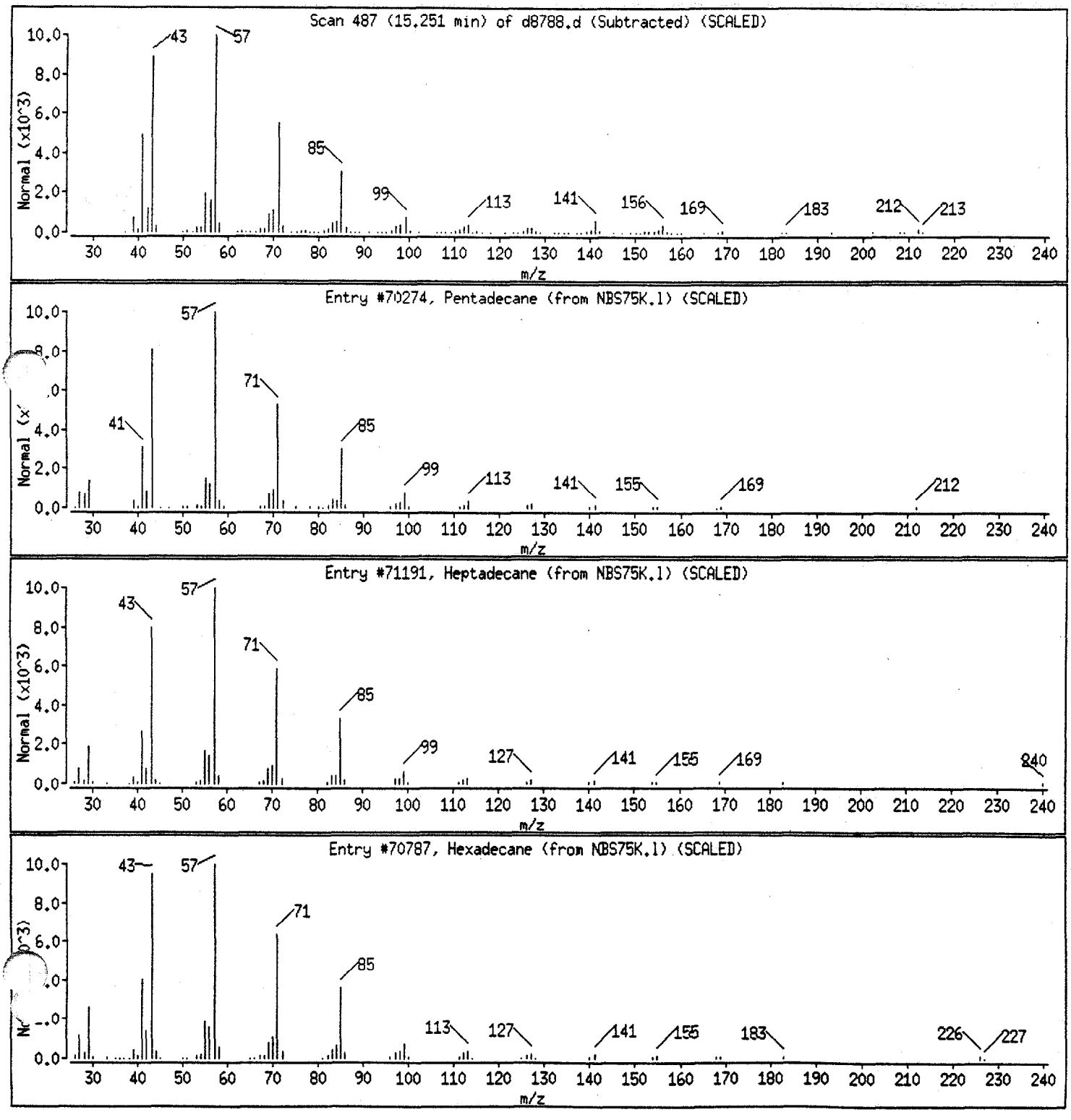
Data File: /chem/a900.i/d063094.b/d8788.d
Date : 30-JUN-94 15:16
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Octadecane	593-45-3	NBS75K.l	71561	97
Heptadecane, 8-methyl-	13287-23-5	NBS75K.l	34816	91
Pentadecane	629-62-9	NBS75K.l	70274	91



Data File: /chem/a900.i/d063094.b/d8788.d
Date : 30-JUN-94 15:16
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

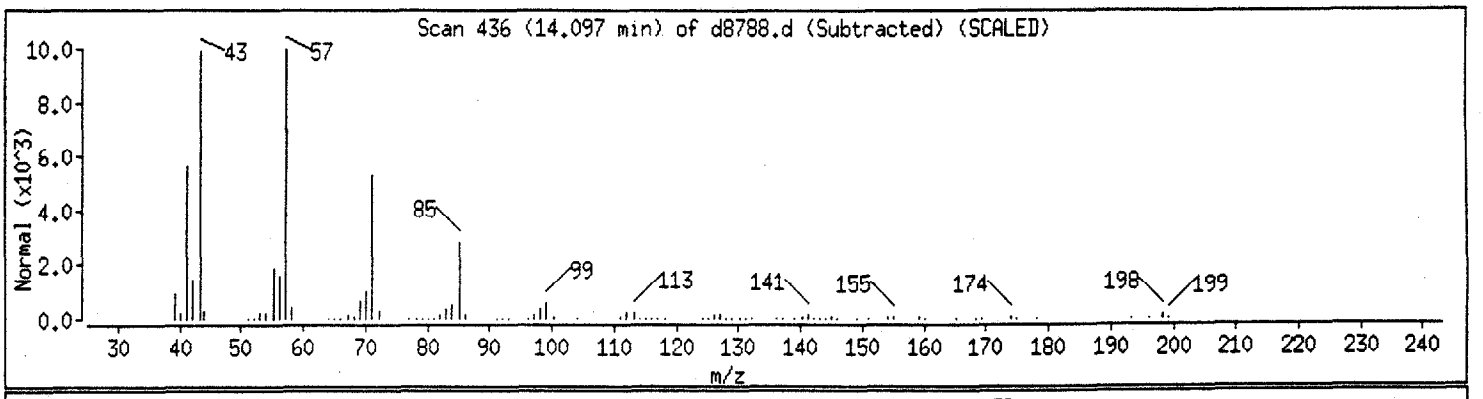
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Pentadecane	629-62-9	NBS75K.1	70274	93
Heptadecane	629-78-7	NBS75K.1	71191	87
Hexadecane	544-76-3	NBS75K.1	70787	87

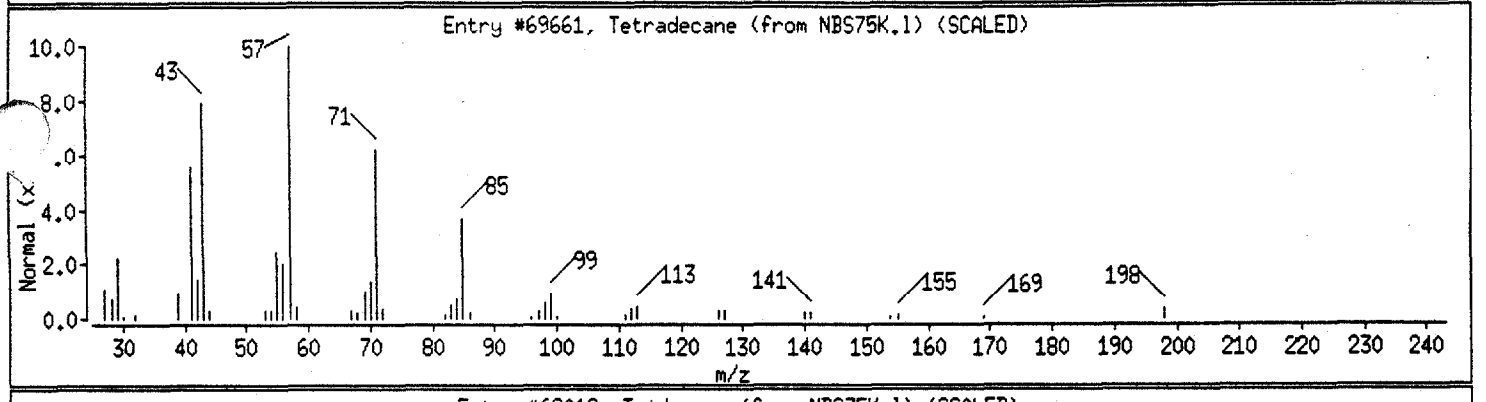


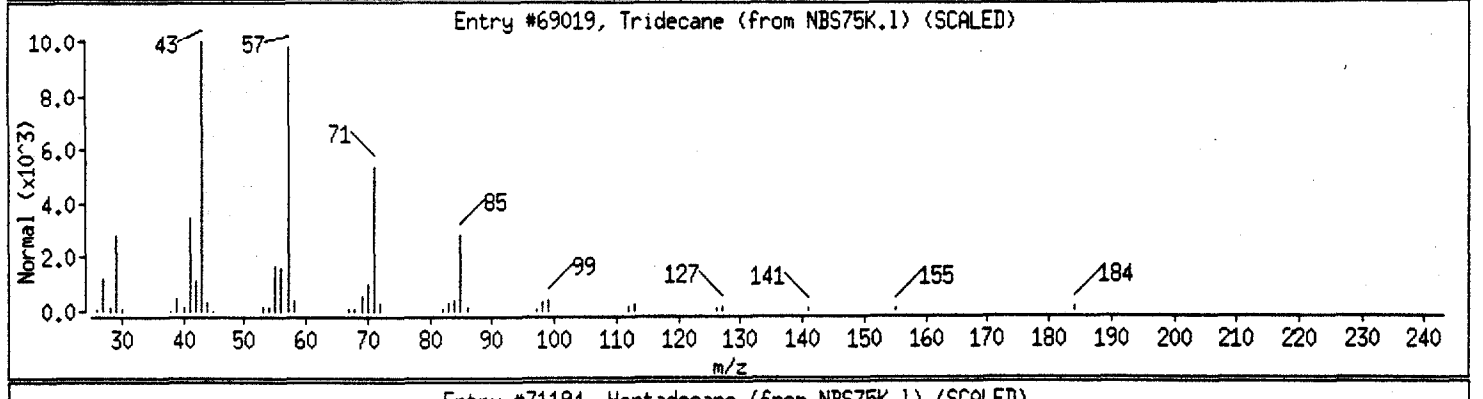
Data File: /chem/a900.i/d063094.b/d8788.d

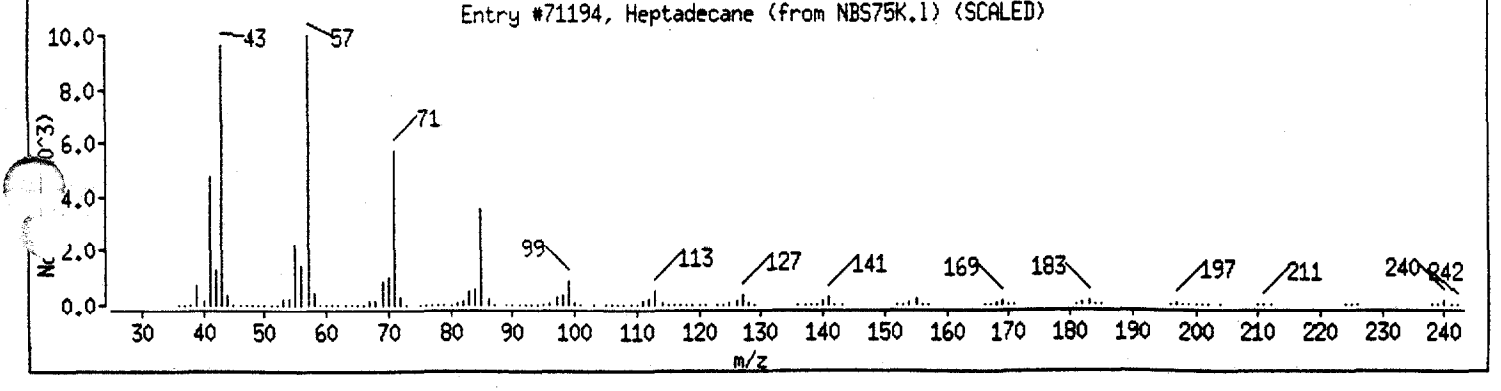
Date : 30-JUN-94 15:16
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Tetradecane	629-59-4	NBS75K.l	69661	97
Tridecane	629-50-5	NBS75K.l	69019	91
Heptadecane	629-78-7	NBS75K.l	71194	90



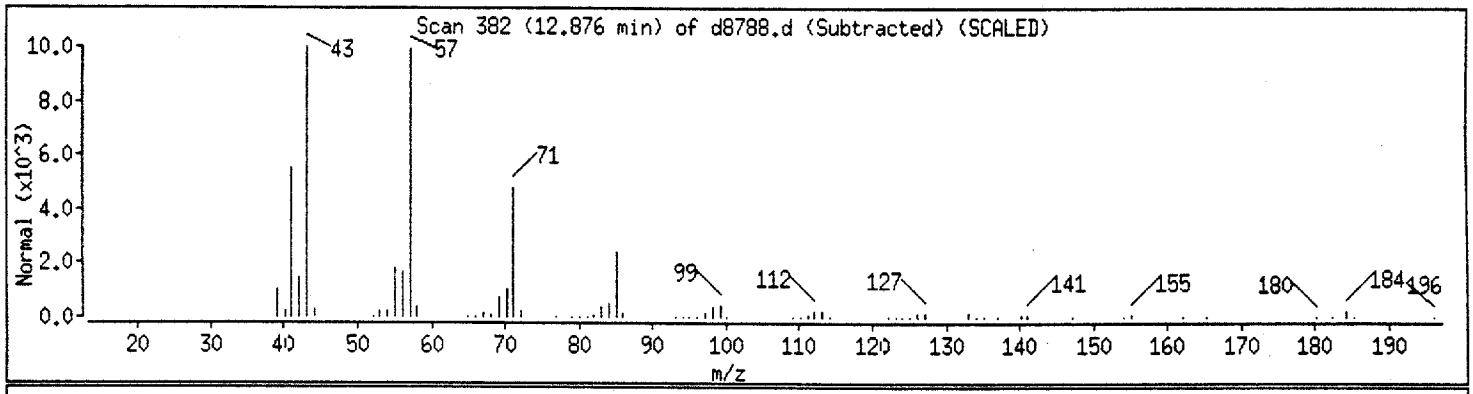


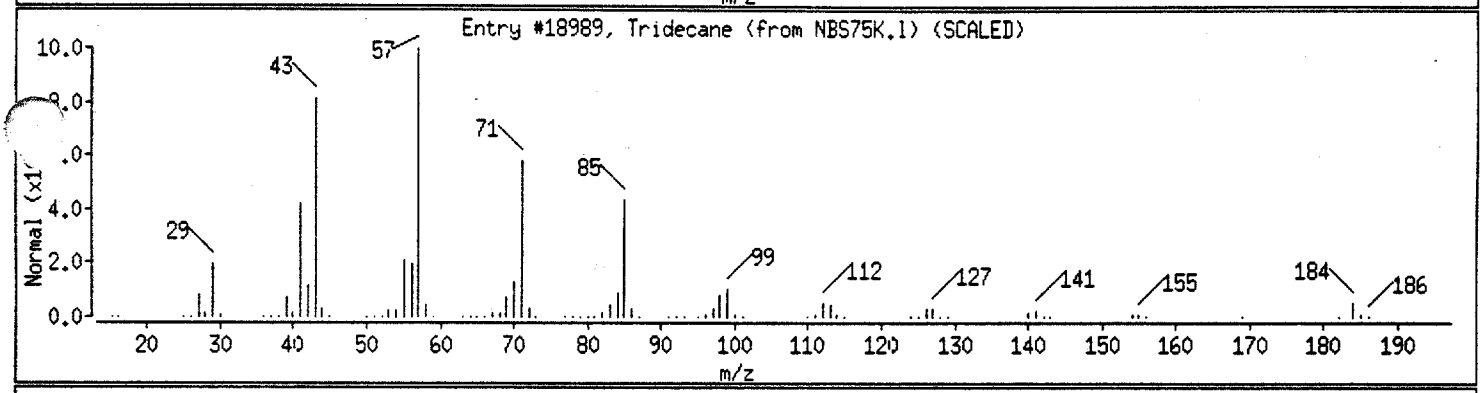


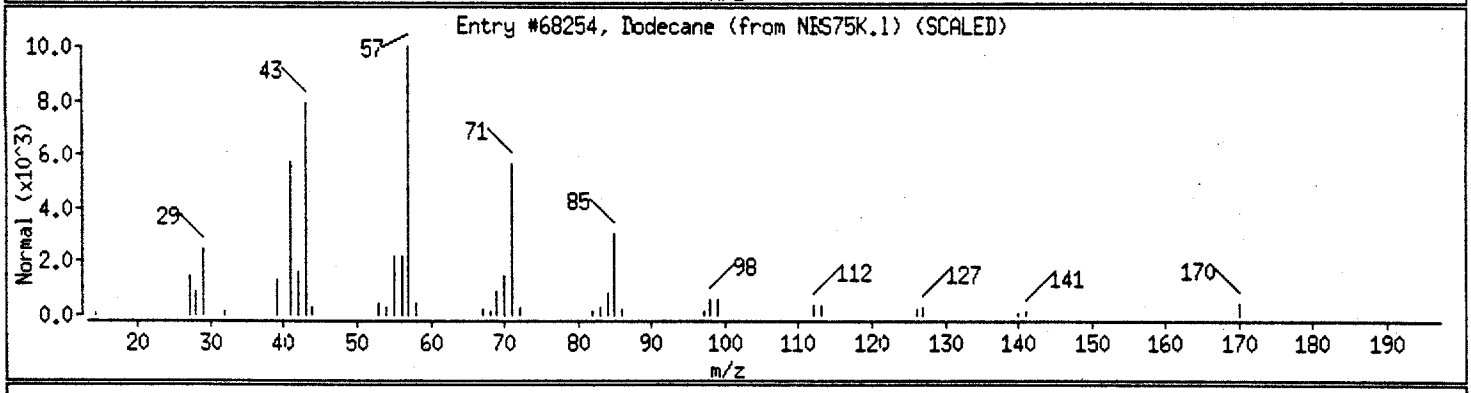


Data File: /chem/a900.i/d063094.b/d8788.d
Date : 30-JUN-94 15:16
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Tridecane	629-50-5	NBS75K.1	18989	97
Dodecane	112-40-3	NBS75K.1	68254	90

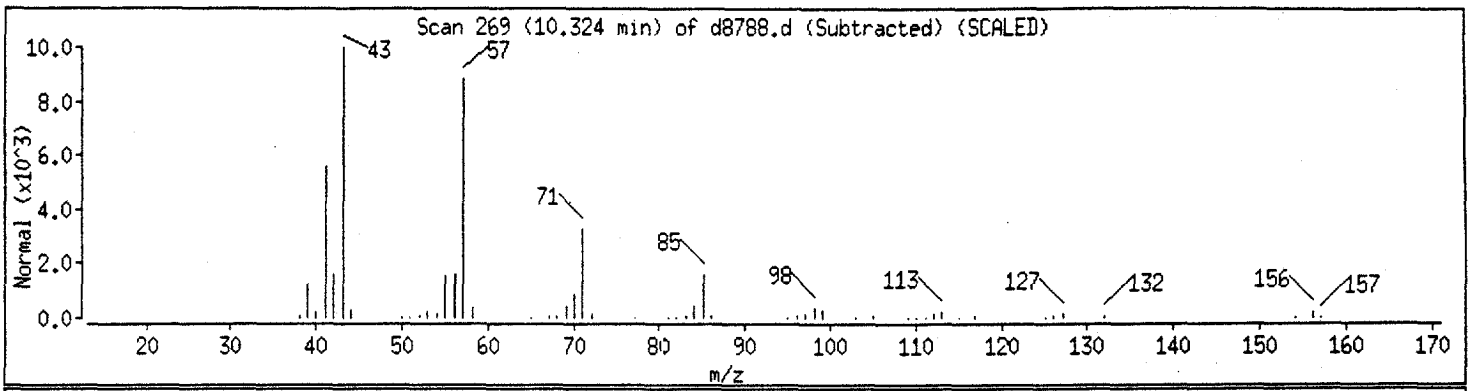


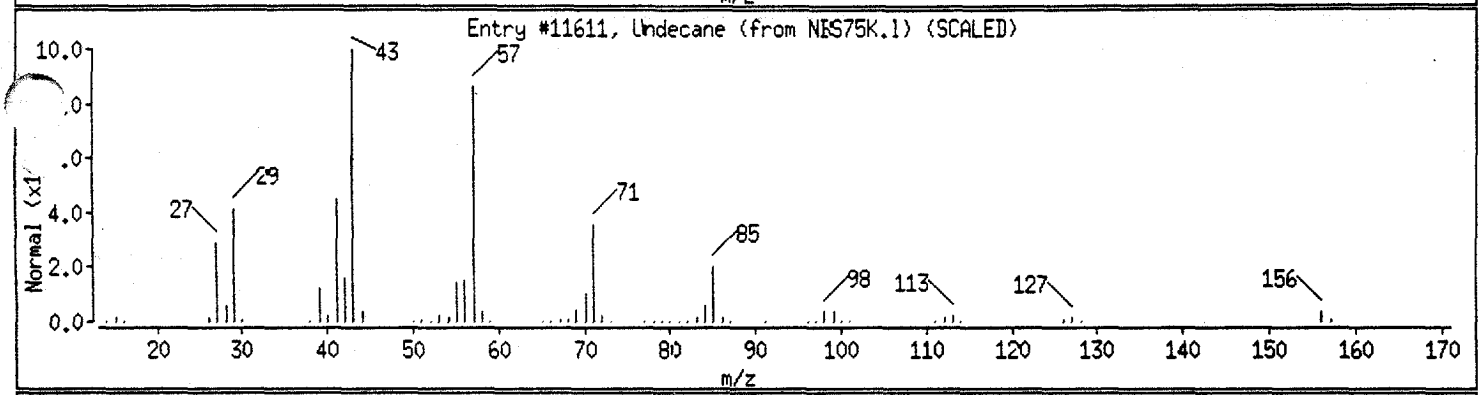


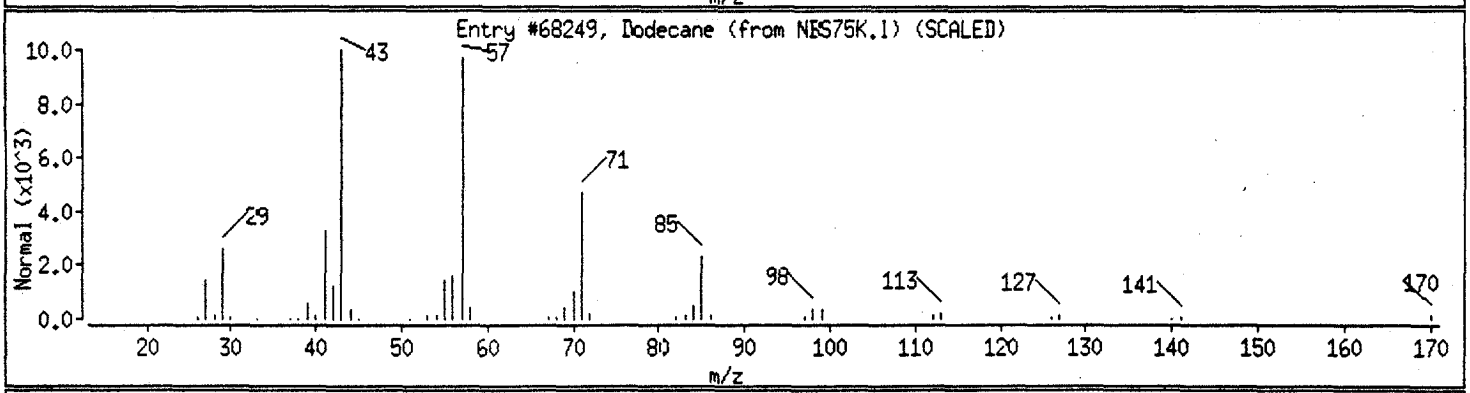


Data File: /chem/a900.i/d063094.b/d8788.d
Date : 30-JUN-94 15:16
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Undecane	1120-21-4	NBS75K.1	11611	94
Dodecane	112-40-3	NBS75K.1	68249	90

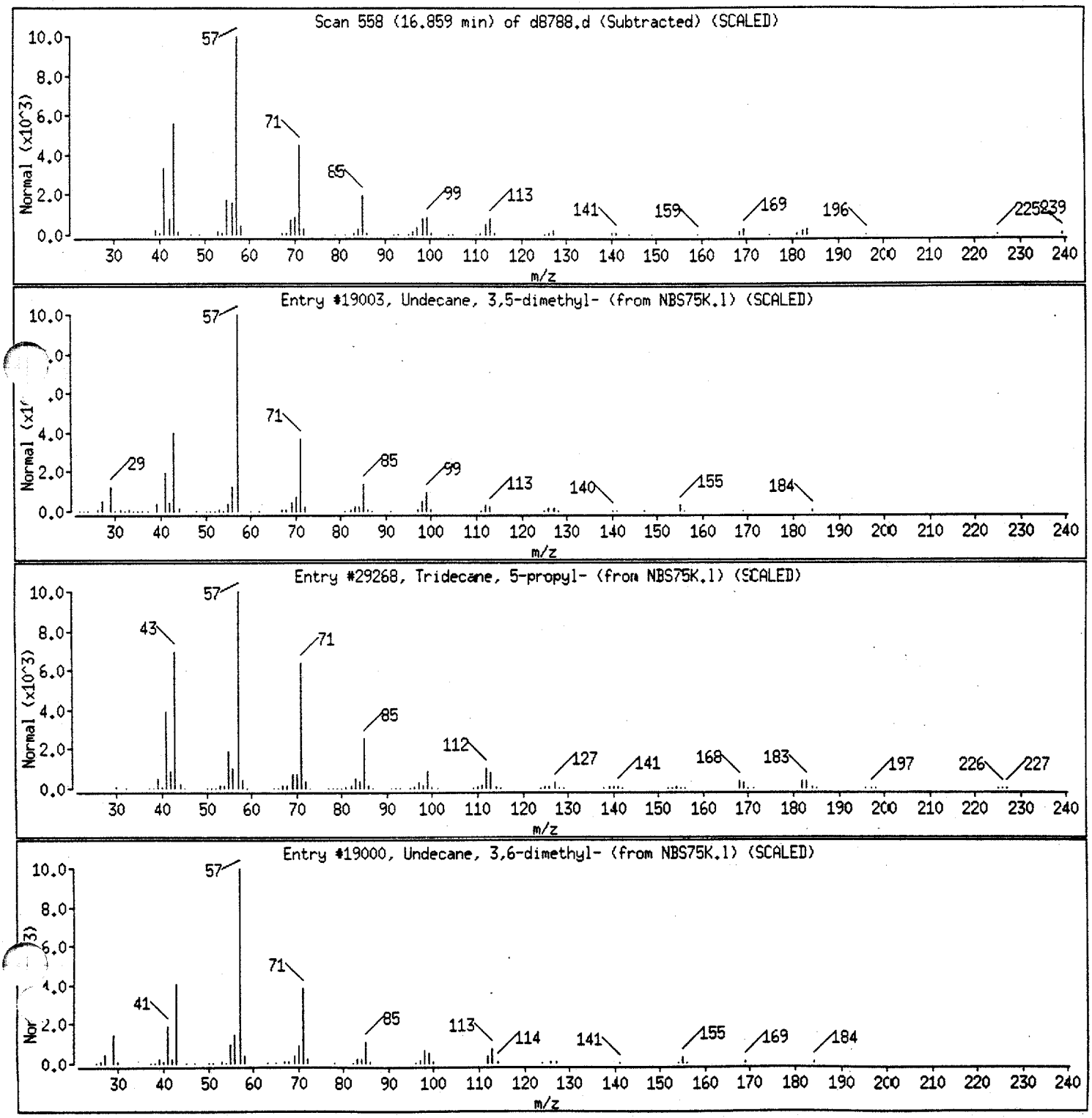






Data File: /chem/a900.i/d063094.b/d8788.d
Date : 30-JUN-94 15:16
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Undecane, 3,5-dimethyl-	17312-81-1	NBS75K.1	19003	78
Tridecane, 5-propyl-	55045-11-9	NBS75K.1	29268	72
Undecane, 3,6-dimethyl-	17301-28-9	NBS75K.1	19000	72



1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. C6622

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: JM9439C

Sample wt/vol: 5 (g/mL) mL Lab File ID: D8776

Level: (low/med) LOW Date Received: 062494

% Moisture: NA decanted: (Y/N) N Date Extracted: 062894

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 062994

Injection Volume: 1.0 (uL) Dilution Factor: 200

GPC Cleanup: (Y/N) N pH: —

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	2000	U
111-44-4	bis(2-Chloroethyl)ether		
95-57-8	2-Chlorophenol		
541-73-1	1,3-Dichlorobenzene		
106-46-7	1,4-Dichlorobenzene		
95-50-1	1,2-Dichlorobenzene		
95-48-7	2-Methylphenol		
108-60-1	2,2'-oxybis(1-Chloropropane)		
106-44-5	4-Methylphenol		
621-64-7	N-Nitroso-di-n-propylamine		
67-72-1	Hexachloroethane		
98-95-3	Nitrobenzene		
78-59-1	Isophorone		
88-75-5	2-Nitrophenol		
105-67-9	2,4-Dimethylphenol		
111-91-1	bis(2-Chloroethoxy)methane		
120-83-2	2,4-Dichlorophenol		
120-82-1	1,2,4-Trichlorobenzene		
91-20-3	Naphthalene		
106-47-8	4-Chloroaniline		
87-68-3	Hexachlorobutadiene		
59-50-7	4-Chloro-3-methylphenol		
91-57-6	2-Methylnaphthalene		
77-47-4	Hexachlorocyclopentadiene		
88-06-2	2,4,6-Trichlorophenol	"	"
95-95-4	2,4,5-Trichlorophenol	5000	
91-58-7	2-Chloronaphthalene	2000	
88-74-4	2-Nitroaniline	5000	
131-11-3	Dimethylphthalate	2000	
208-96-8	Acenaphthylene	2000	
606-20-2	2,6-Dinitrotoluene	2000	
99-09-2	3-Nitroaniline	5000	
83-32-9	Acenaphthene	2000	
		20	"

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 0402

Lab Name: ASC	Contract: NEESA
Lab Code: NA	Case No.: NA
SAS No.: NA	SDG No.:
Matrix: (soil/water) WATER	Lab Sample ID: JM9439C
Sample wt/vol: 5 (g/mL) mL	Lab File ID: D8776
Level: (low/med) low	Date Received: 062494
% Moisture: NA decanted: (Y/N) N	Date Extracted: 062894
Concentrated Extract Volume: 1000 (uL)	Date Analyzed: 062994
Injection Volume: 1.0 (uL)	Dilution Factor: 200
GPC Cleanup: (Y/N) N	pH: —

C6622

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	5000	U
100-02-7	4-Nitrophenol	↓	
132-64-9	Dibenzofuran	2000	
121-14-2	2,4-Dinitrotoluene		
84-66-2	Diethylphthalate		
7005-72-3	4-Chlorophenyl-phenylether		
86-73-7	Fluorene	↓	
100-01-6	4-Nitroaniline	5000	
534-52-1	4,6-Dinitro-2-methylphenol	↓	
86-30-6	N-Nitrosodiphenylamine (1)	2000	
101-55-3	4-Bromophenyl-phenylether		
118-74-1	Hexachlorobenzene	↓	
87-86-5	Pentachlorophenol	5000	
85-01-8	Phenanthrene	2000	
120-12-7	Anthracene		
86-74-8	Carbazole		
84-74-2	Di-n-butylphthalate		
206-44-0	Fluoranthene		
129-00-0	Pyrene		
85-68-7	Butylbenzylphthalate		
91-94-1	3,3'-Dichlorobenzidine		
56-55-3	Benzo(a)anthracene		
218-01-9	Chrysene		
117-81-7	bis(2-Ethylhexyl)phthalate		
117-84-0	Di-n-octylphthalate		
205-99-2	Benzo(b)fluoranthene		
207-08-9	Benzo(k)fluoranthene		
50-32-8	Benzo(a)pyrene		
193-39-5	Indeno(1,2,3-cd)pyrene		
53-70-3	Dibenz(a,h)anthracene		
191-24-2	Benzo(g,h,i)perylene	↓	↓

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: C6622

Lab Name: ASC Contract: NEESA

1 Code: — Case No.: — SAS No.: — SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: JM9439C

Sample wt/vol: 5 (g/mL) mL Lab File ID: D8776

Level: (low/med) low Date Received: 062494

% Moisture: NA decanted: (Y/N) N Date Extracted: 062894

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 062994

Injection Volume: 1.0 (uL) Dilution Factor: 200

GPC Cleanup: (Y/N) N pH:

Number TICs found: 11 CONCENTRATION UNITS; (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown Organic Acid	9.98	1700 JDF	J
2.	124-07-2	Octanoic Acid	11.2	820	J
3.		Unknown	13.5	1200	
4.			13.6	1400	
5.			13.7	1400	
6.			14.1	1300	
7.			14.3	990	
8.			14.4	2900	
9.			14.6	1000	
10.			14.7	1100	
11.			14.9	2200	
12.					
13.					
14.					
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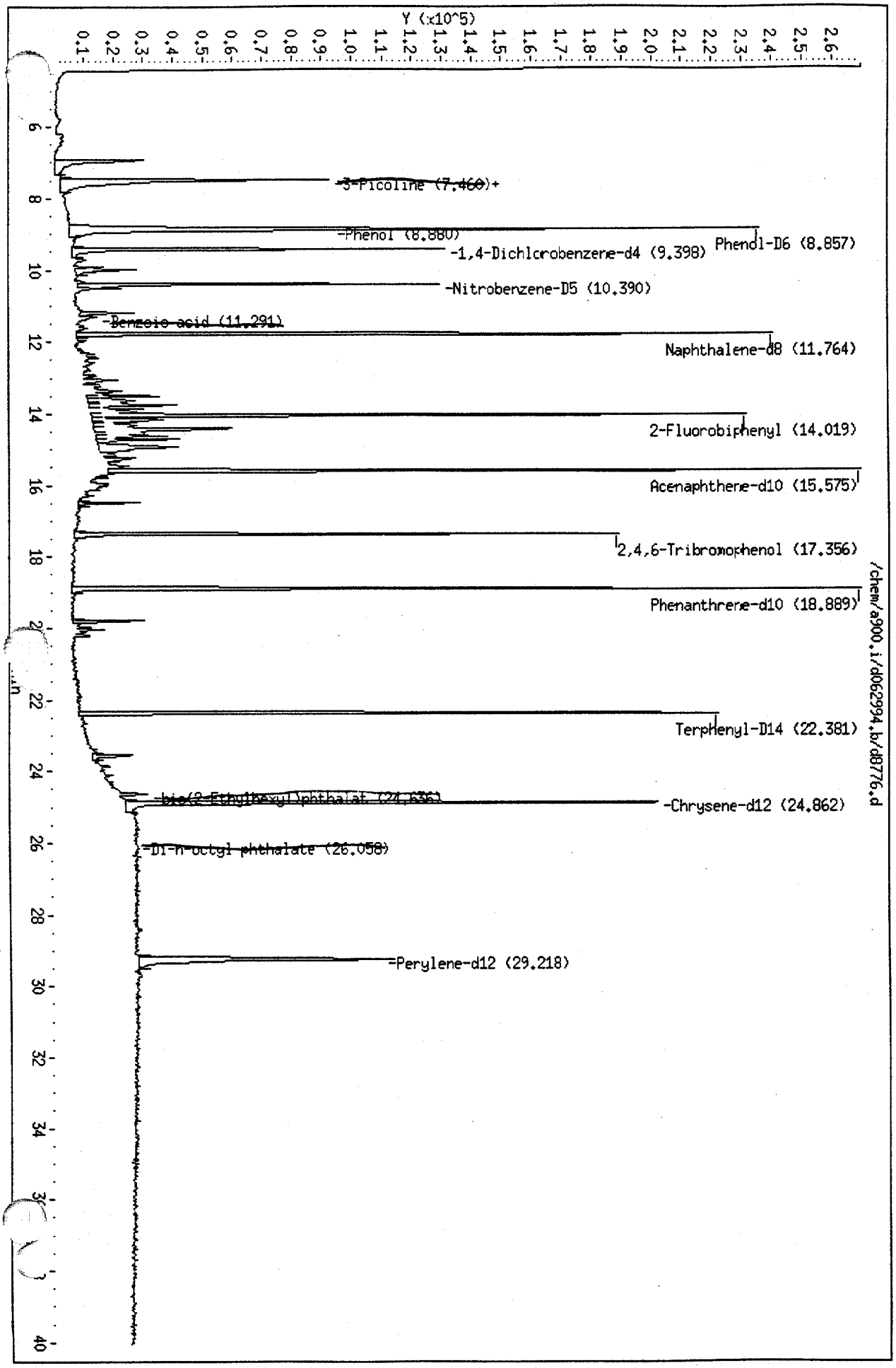


Data File: /chem/a900.i/d062994.b/d8776.d
Date : 29-JUN-94 15:05
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Volume Injected (uL) : 1.0

Column diameter : 0.25

C2266
C6622

DL 6-29-94 0405

Data File: /chem/a900.i/d062994.b/d8776.d
Report Date: 29-Jun-1994 15:55

Analytical Services Corp.

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/a900.i/d062994.b/d8776.d
Lab. Id. : Quant Type: ISTD
Inj Date : 29-JUN-94 15:05 Autotune Date: {
Operator : Tom Inst ID: a900.i
Smp Info : 15226N-C6622
Misc Info : JM9439C,N1C40848,L:M1,5.00,1:1, BTL#
Comment :
Method : /chem/a900.i/d062994.b/bna8270d.m
Meth Date : 29-Jun-1994 15:51 tom
Cal Date : 29-JUN-94 09:54 Cal File: d8770.d
Als bottle: 0
Dil Factor: 1.000 Target Version: Target 3.00
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: WATER

C6622

Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
~~3-Picoline~~	93.00	7.460	(0.794)	1725	0.746	~~0.746(PaAQ)~~ <1
$ 9 2-Fluorophenol	112.00	7.460	(0.794)	114503	60.7	60.7
$ 10 Phenol-D6	99.00	8.857	(0.942)	116634	56.1	56.1
~~11 Phenol~~	94.00	8.880	(0.945)	897	0.325	~~0.325(aQ)~~ <1
* 17 1,4-Dichlorobenzene-d4	152.00	9.398	(1.000)	58927 OK	40.0	
$ 27 Nitrobenzene-D5	82.00	10.390	(0.883)	111337	53.8	53.8
32 **Benzoic acid**	122.00	11.291	(0.960)	4753	4.03	**4.03(aAQ)**
* 37 Naphthalene-d8	136.00	11.764	(1.000)	232915 OK	40.0	
$ 51 2-Fluorobiphenyl	172.00	14.019	(0.900)	147390	42.9	42.9
* 58 Acenaphthene-d10	164.00	15.575	(1.000)	150753 OK	40.0	
$ 74 2,4,6-Tribromophenol	330.00	17.356	(1.114)	58560	78.5	78.5
* 81 Phenanthrene-d10	188.00	18.889	(1.000)	229999 OK	40.0	
$ 90 Terphenyl-D14	244.00	22.381	(0.900)	213093	43.9	43.9
95 **bis(2-Ethylhexyl)phthalate**	149.00	24.636	(0.991)	5855	1.38	1.38(a)
* 99 Chrysene-d12	240.00	24.862	(1.000)	213572 OK	40.0	
~~101 Di-n-octyl phthalate~~	149.00	26.058	(0.892)	953	0.123	~~0.123(a)~~ <1
* 105 Perylene-d12	264.00	29.218	(1.000)	141972 OK	40.0	

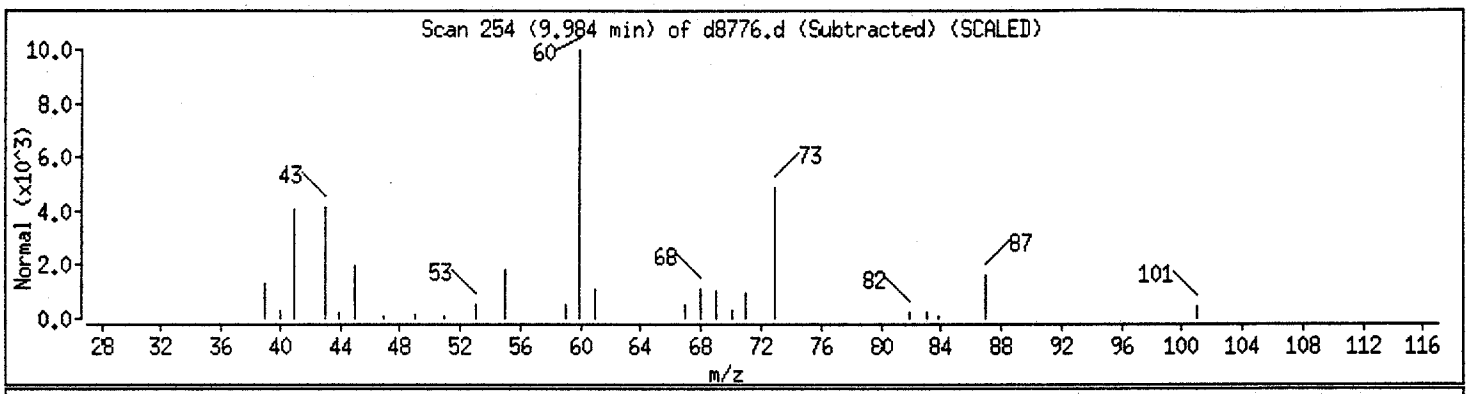
QC Flag Legend

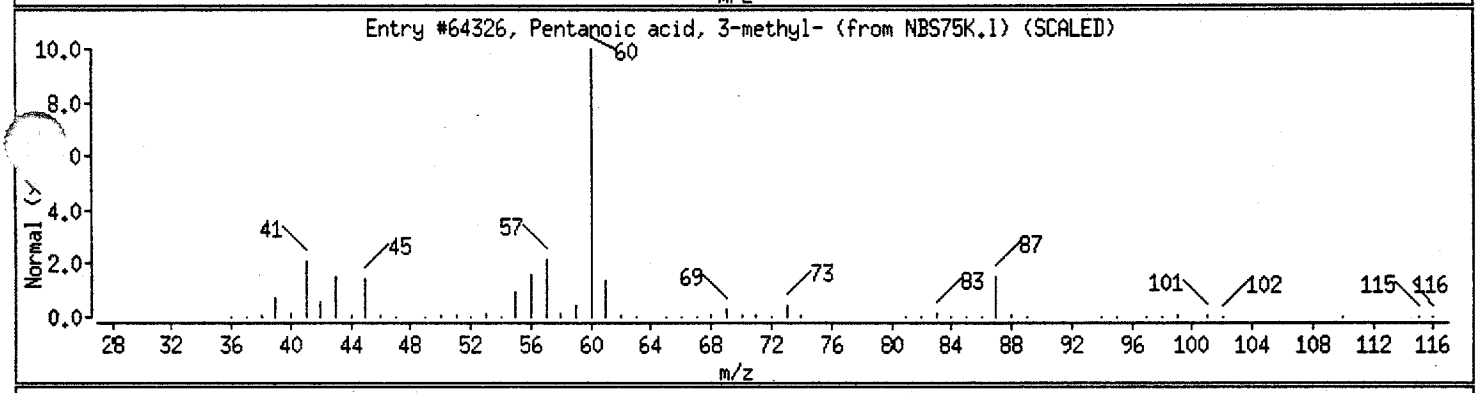
T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

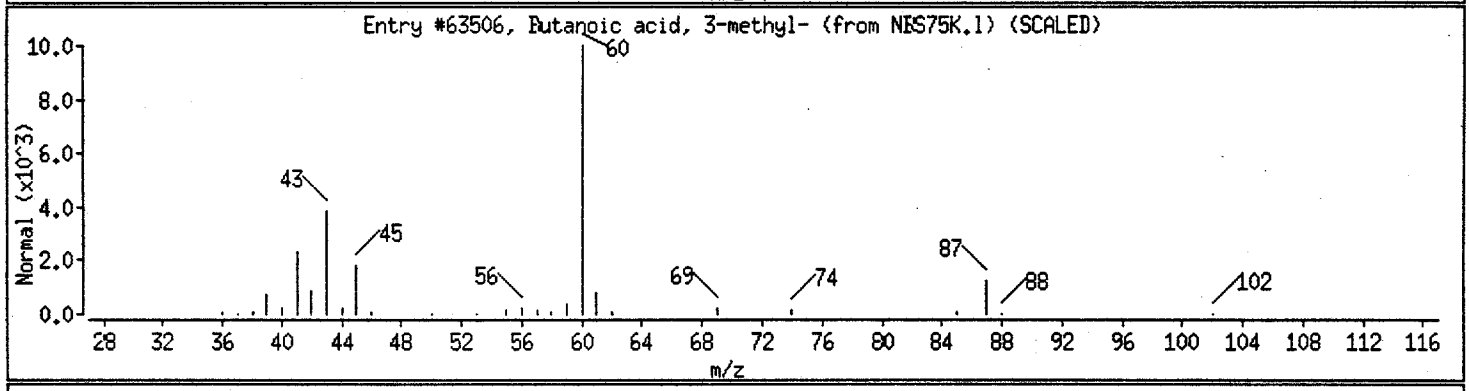
Data File: /chem/a900.i/d062994.b/d8776.d
Date : 29-JUN-94 15:05
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

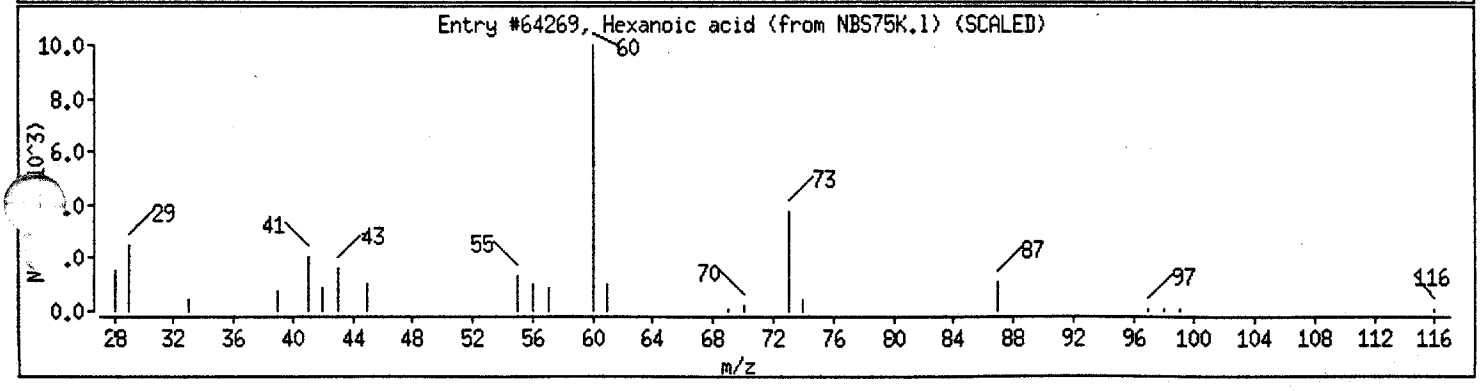
C6622

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Pentanoic acid, 3-methyl-	105-43-1	NBS75K.1	64326	59
Butanoic acid, 3-methyl-	503-74-2	NBS75K.1	63506	59
Hexanoic acid	142-62-1	NBS75K.1	64269	53







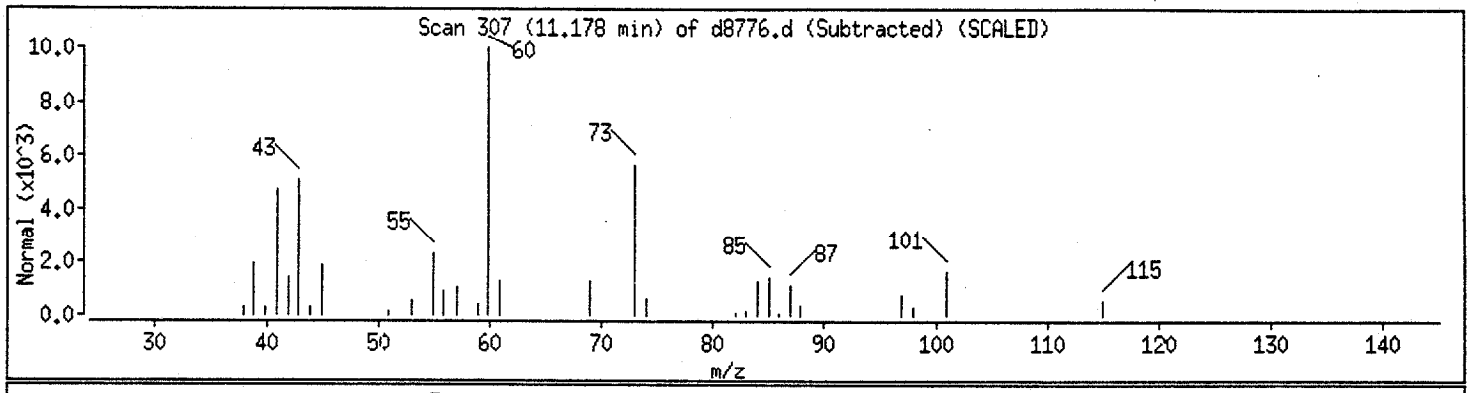


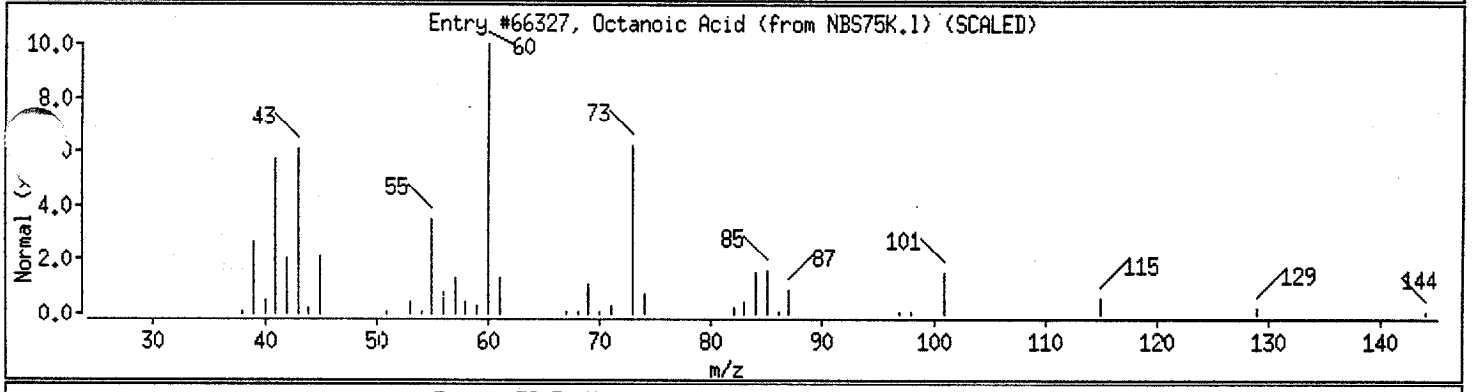
Data File: /chem/a900.i/d062994.b/d8776.d
Date : 29-JUN-94 15:05
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Volume Injected (uL) : 1.0

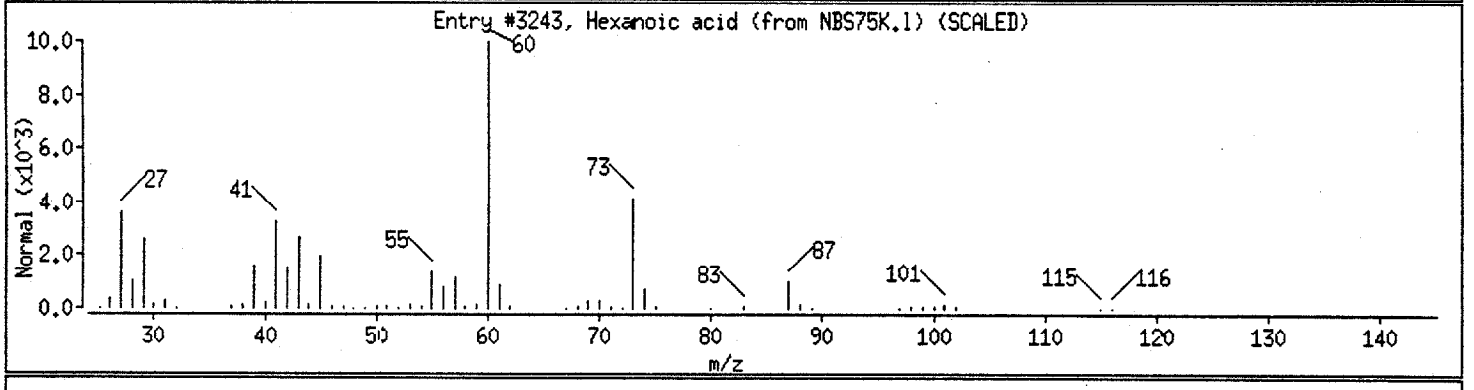
Column diameter : 0.25

C6622

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Octanoic Acid	124-07-2	NBS75K.l	66327	90
Hexanoic acid	142-62-1	NBS75K.l	3243	72





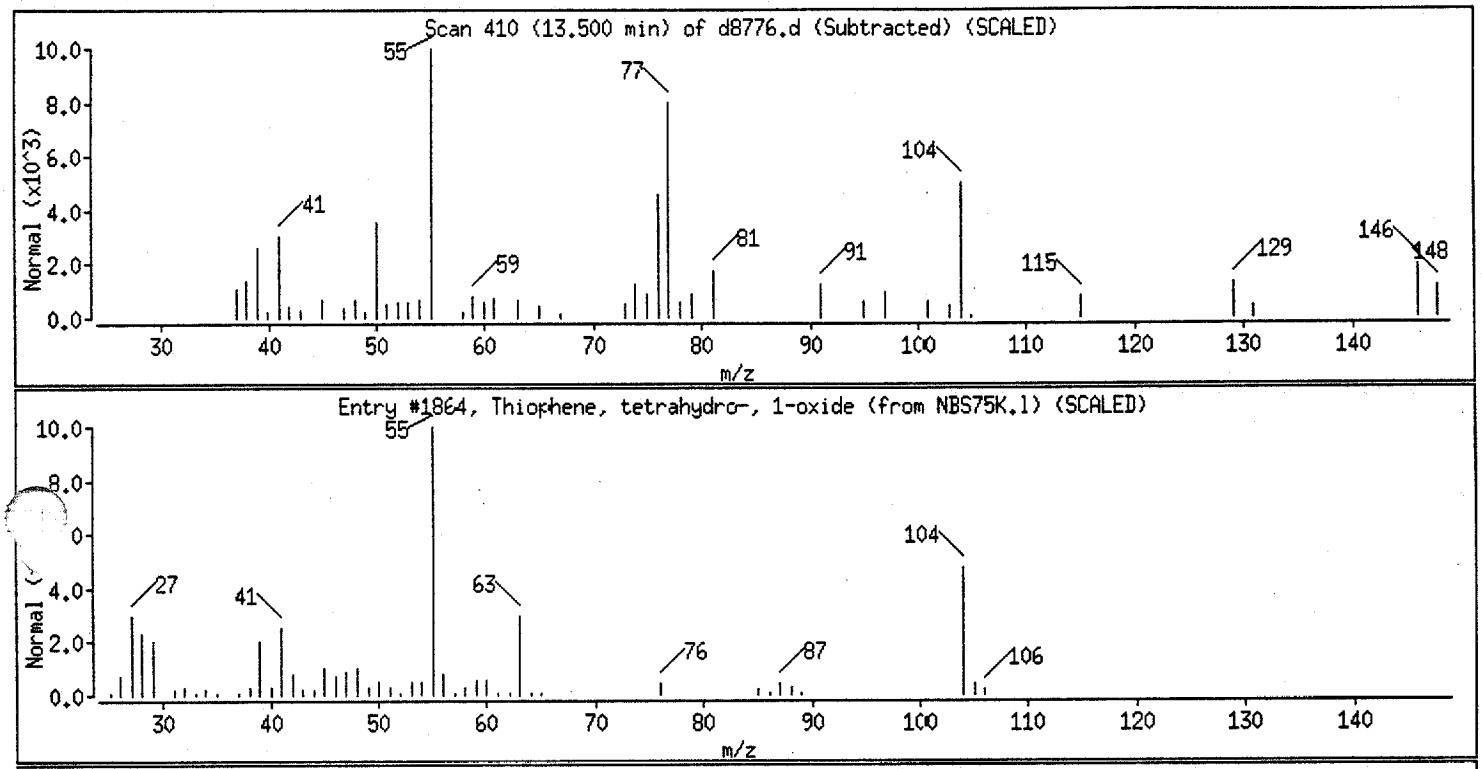


Data File: /chem/a900.i/d062994.b/d8776.d
Date : 29-JUN-94 15:05
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Volume Injected (uL) : 1.0

Column diameter : 0.25

C6622

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Thiophene, tetrahydro-, 1-oxide	1600-44-8	NBS75K.1	1864	10



Data File: /chem/a900.i/d062994.b/d8776.d

Date : 29-JUN-94 15:05

Instrument : a900.i

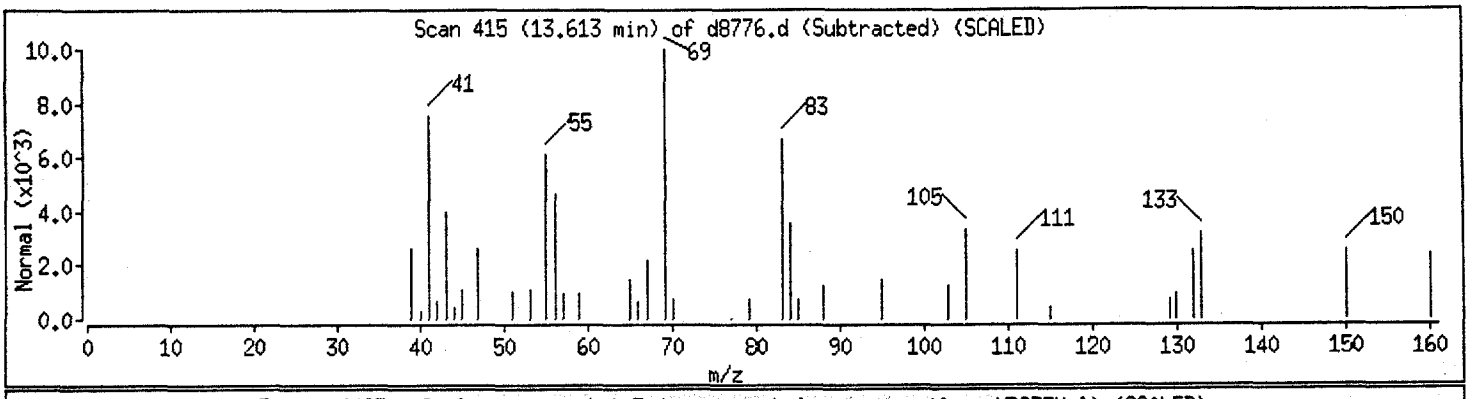
Sample ID :

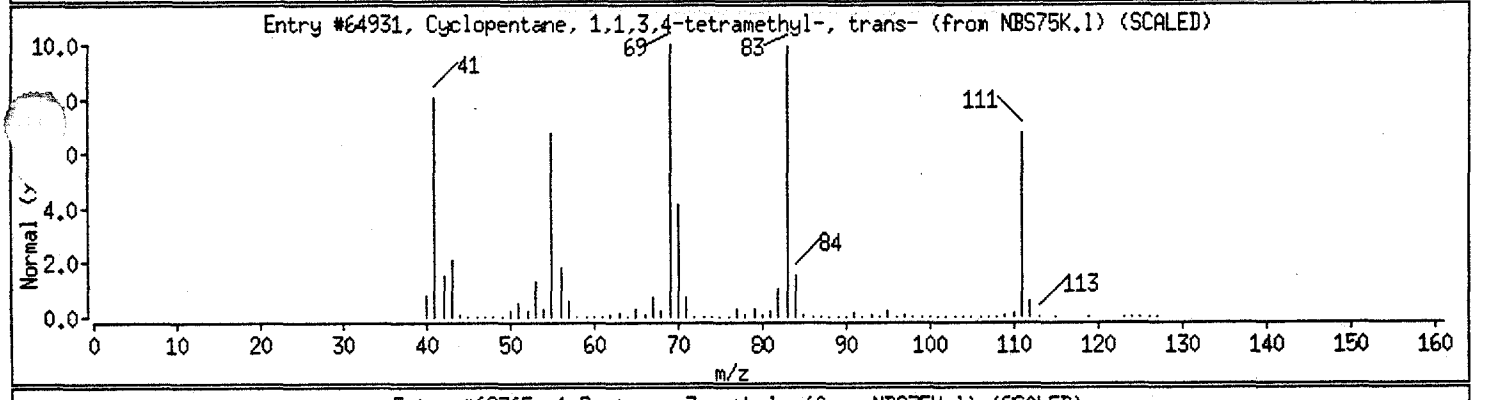
C6622

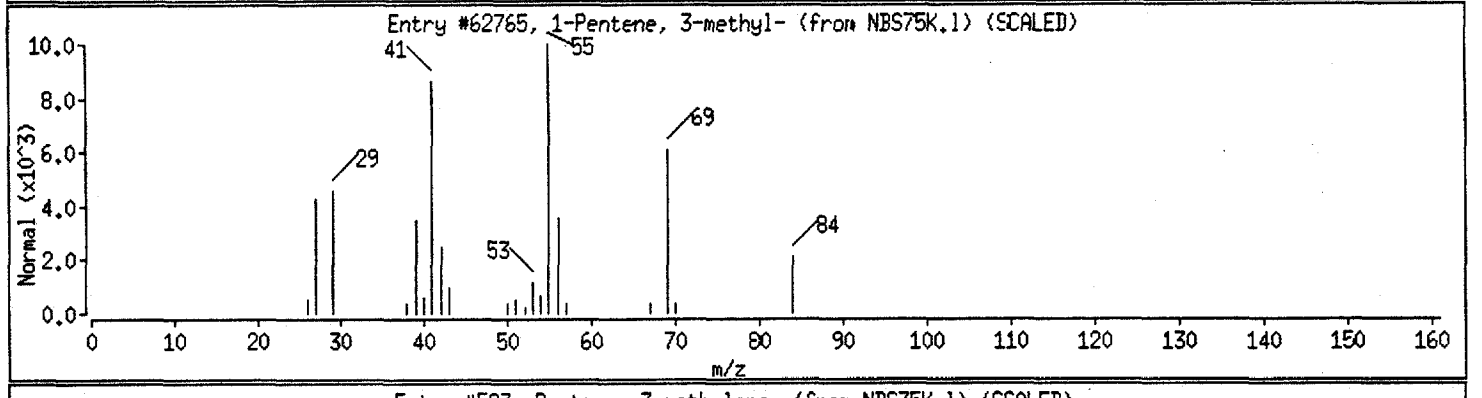
Column phase : J&W DB-5 Column diameter : 0.25

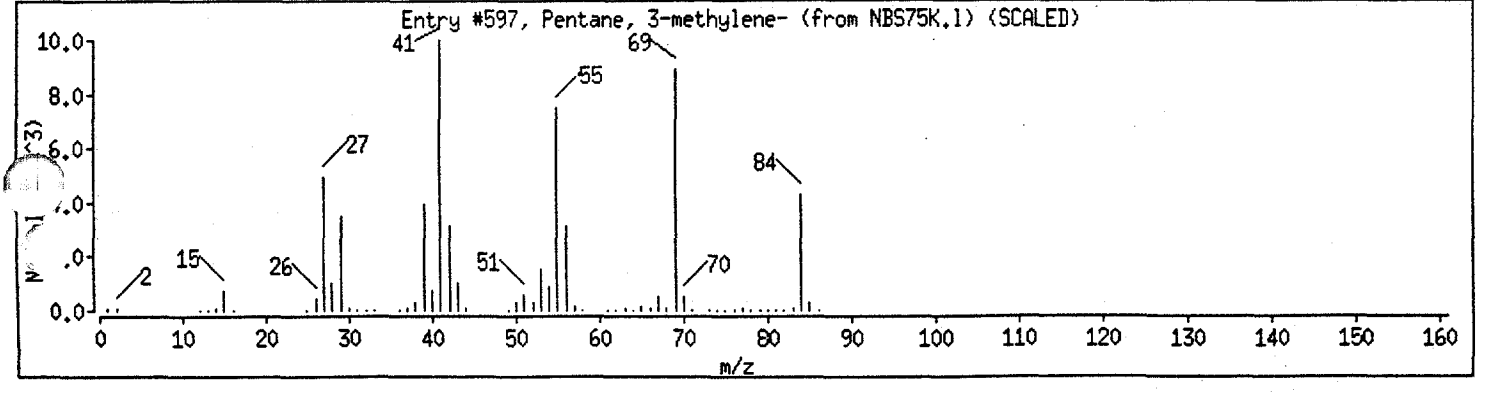
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Cyclopentane, 1,1,3,4-tetramethyl-, tran	20309-77-7	NBS75K.l	64931	38
1-Pentene, 3-methyl-	760-20-3	NBS75K.l	62765	35
Pentane, 3-methylene-	760-21-4	NBS75K.l	597	27







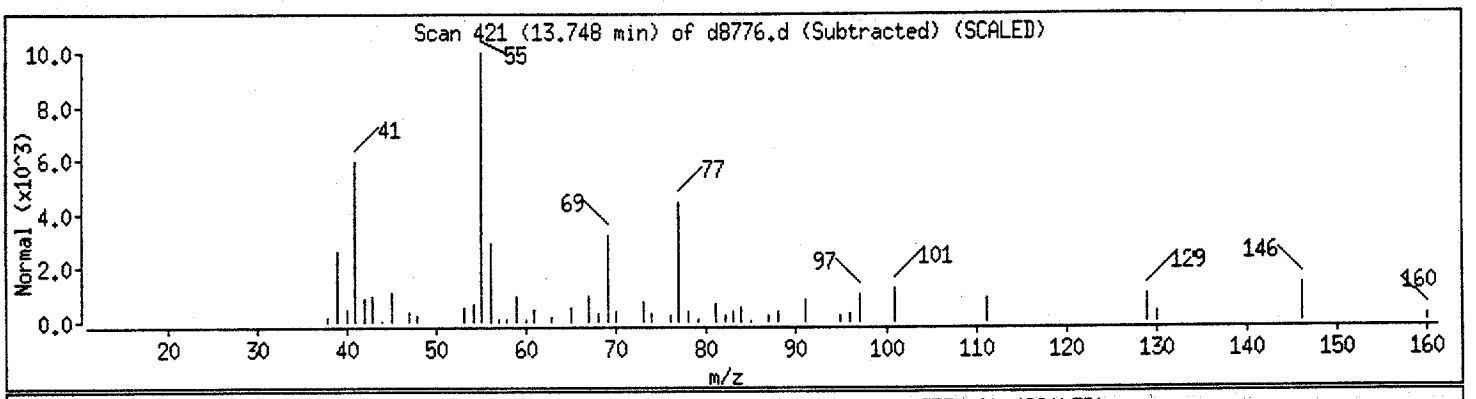


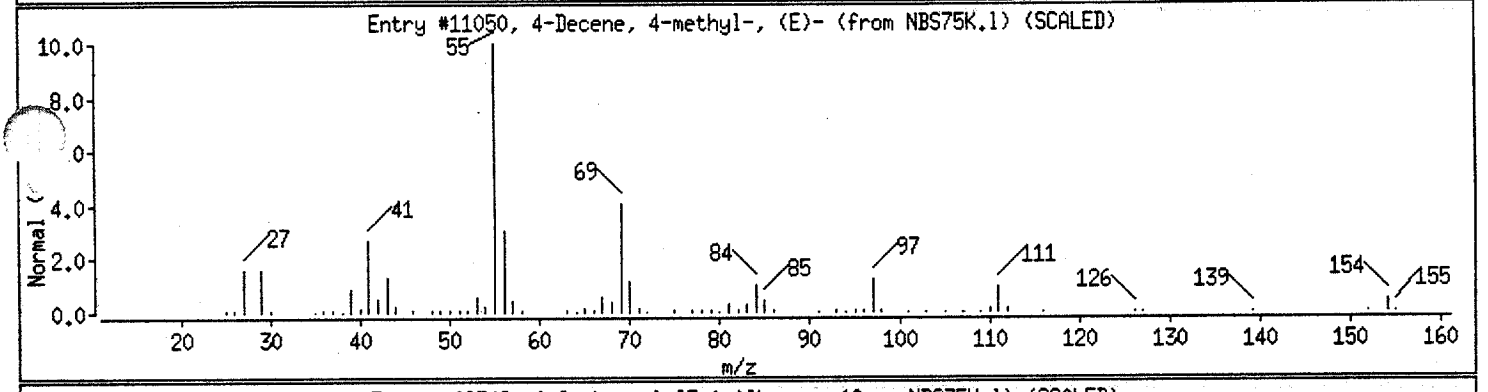
Data File: /chem/a900.i/d062994.b/d8776.d
Date : 29-JUN-94 15:05
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Volume Injected (uL) : 1.0

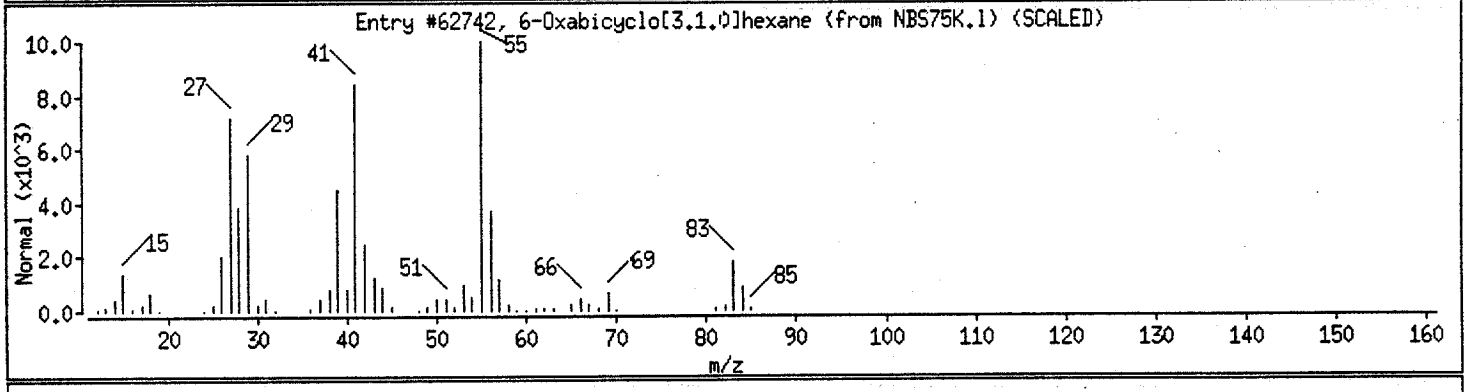
c6622

Column diameter : 0.25

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
4-Decene, 4-methyl-, (E)-	60366-66-7	NBS75K.1	11050	12
6-Oxabicyclo[3.1.0]hexane	285-67-6	NBS75K.1	62742	10





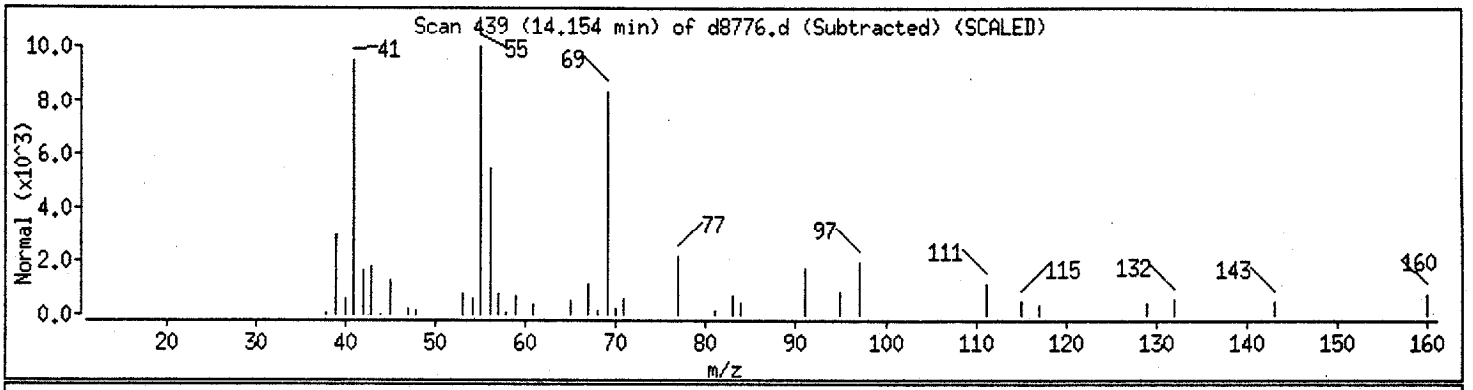


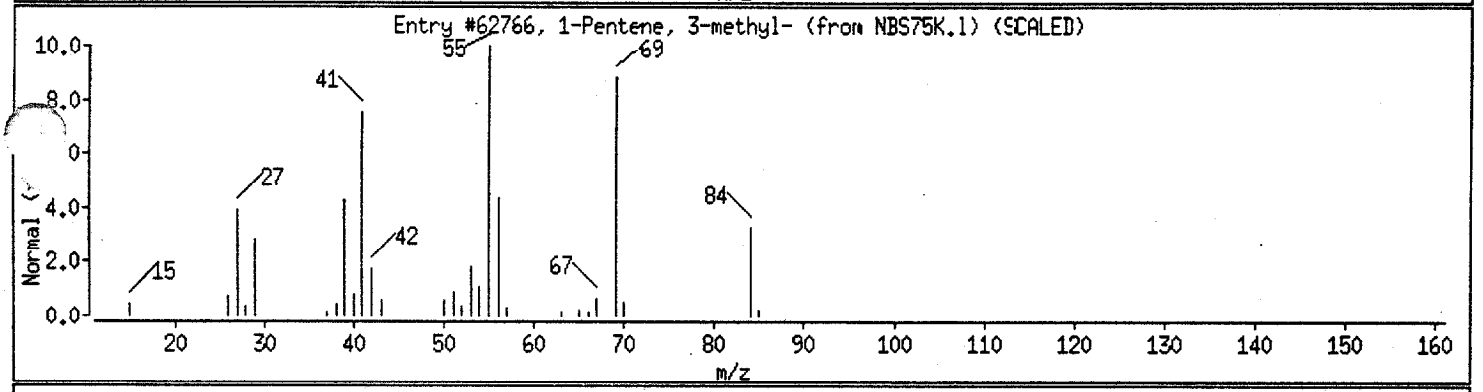
Data File: /chem/a900.i/d062994.b/d8776.d
Date : 29-JUN-94 15:05
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Volume Injected (uL) : 1.0

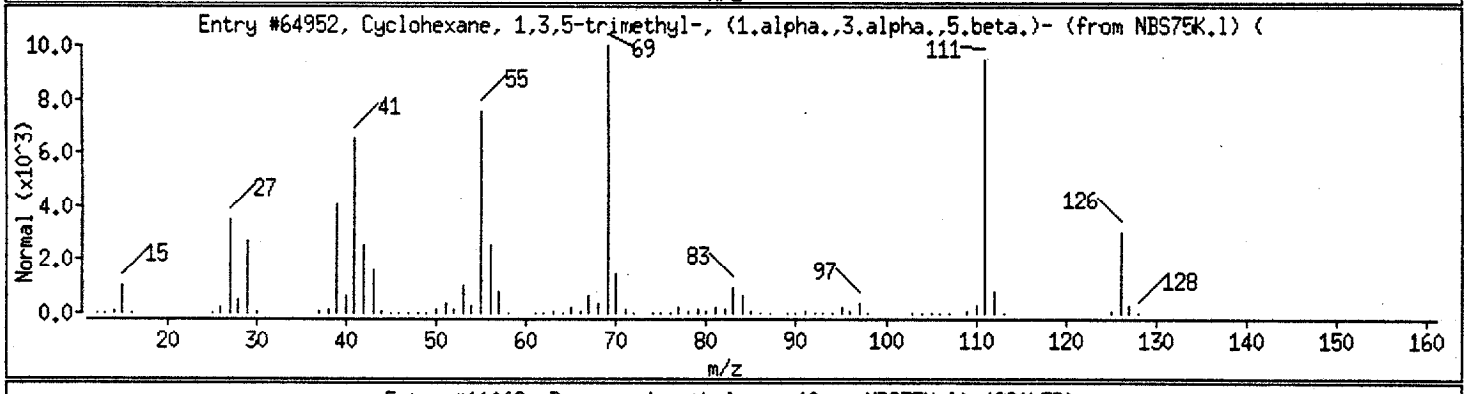
C6620

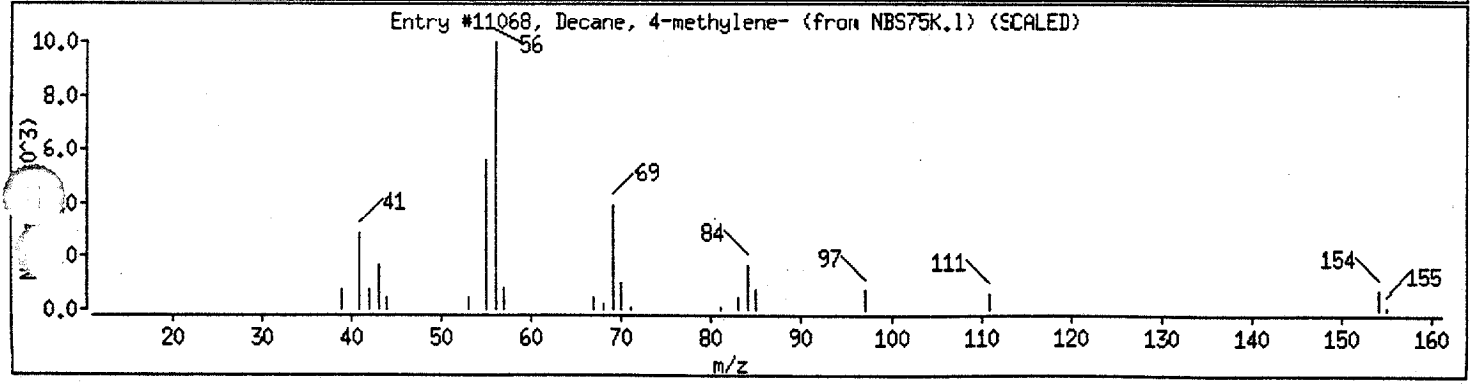
Column diameter : 0.25

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
1-Pentene, 3-methyl-	760-20-3	NBS75K.1	62766	43
Cyclohexane, 1,3,5-trimethyl-, (1.alpha.	1795-26-2	NBS75K.1	64952	38
Decane, 4-methylene-	24949-41-5	NBS75K.1	11068	37







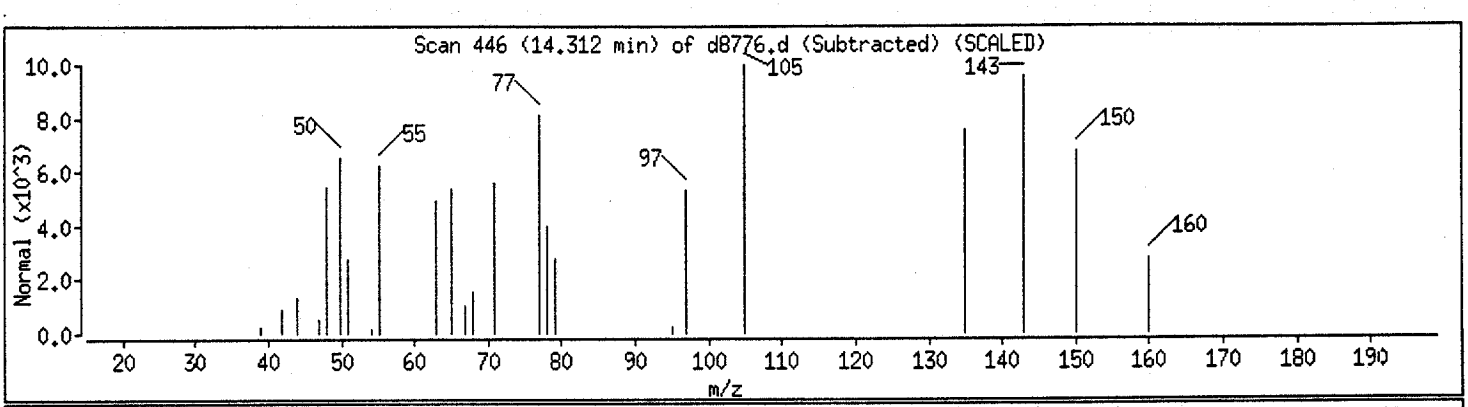


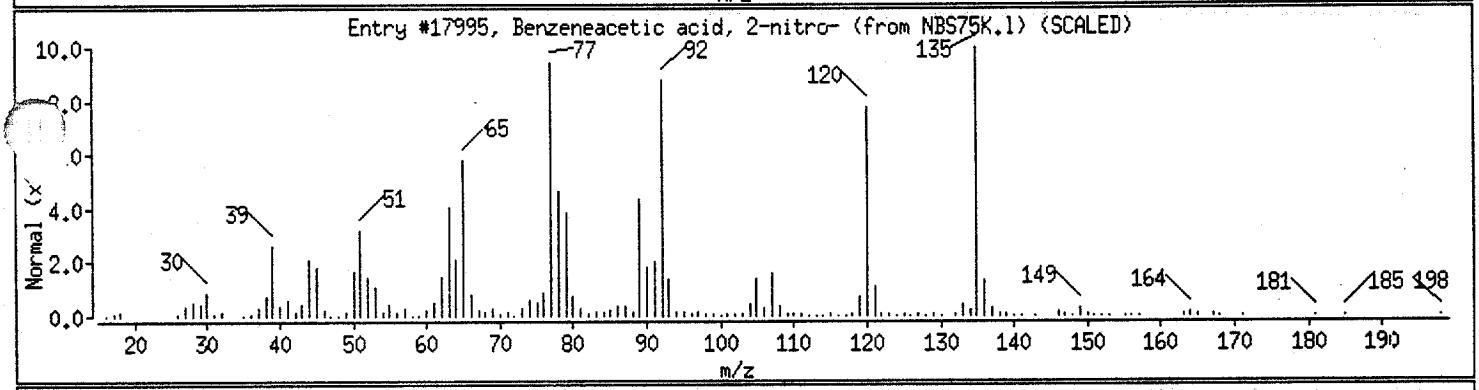
Data File: /chem/a900.i/d062994.b/d8776.d

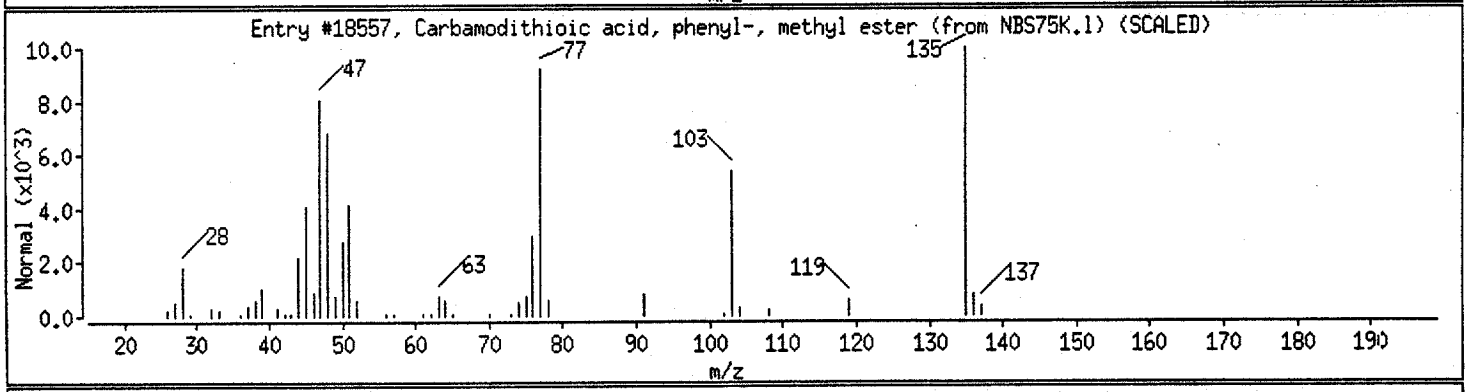
C662

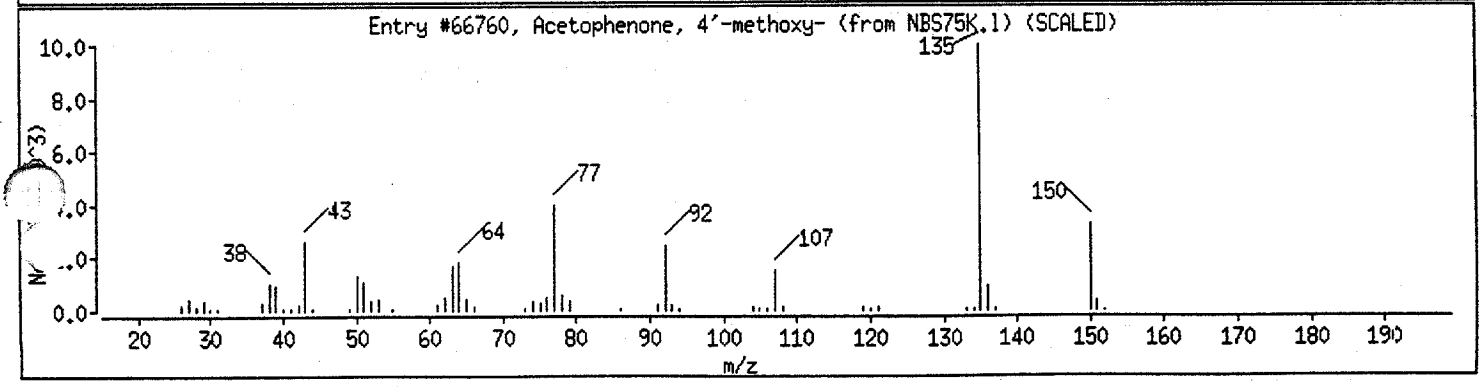
Date : 29-JUN-94 15:05
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Benzeneacetic acid, 2-nitro-	3740-52-1	NBS75K.1	17995	27
Carbamodithioic acid, phenyl-, methyl es	701-73-5	NBS75K.1	18557	10
Acetophenone, 4'-methoxy-	100-06-1	NBS75K.1	66760	10



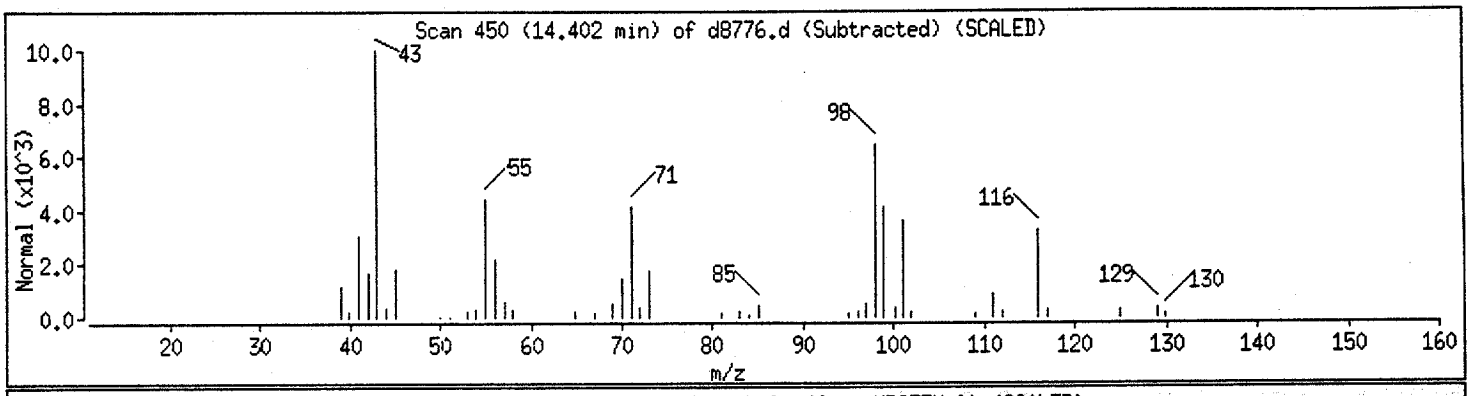


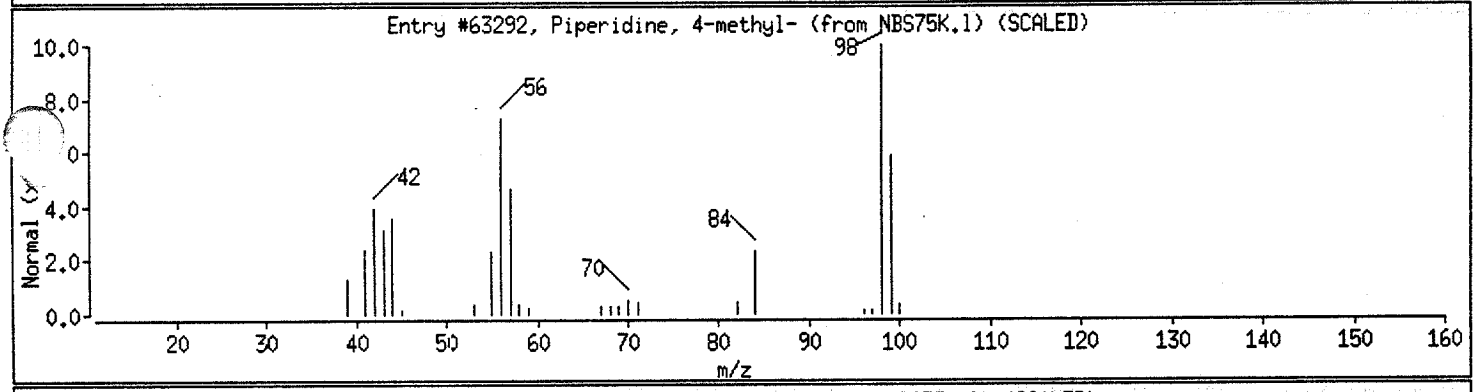


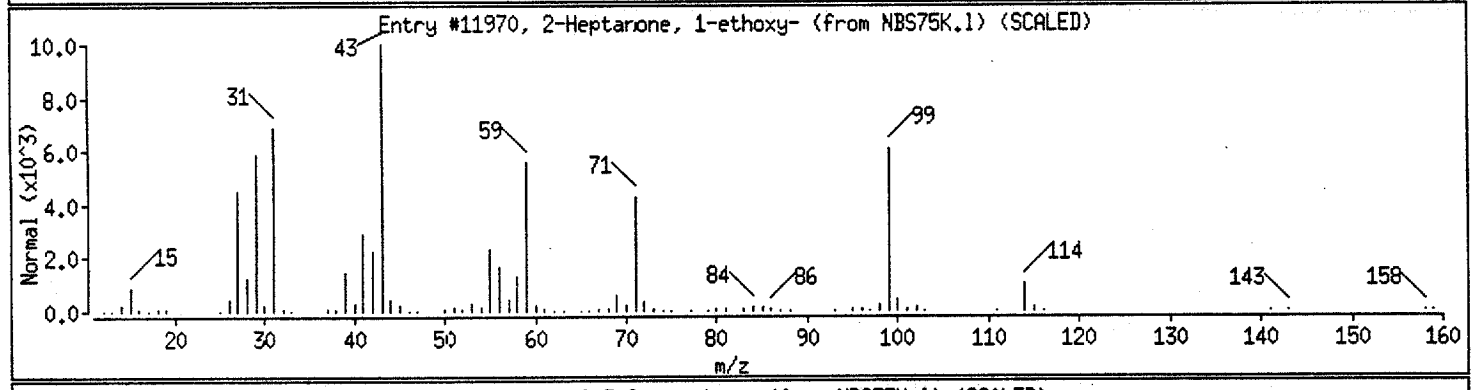


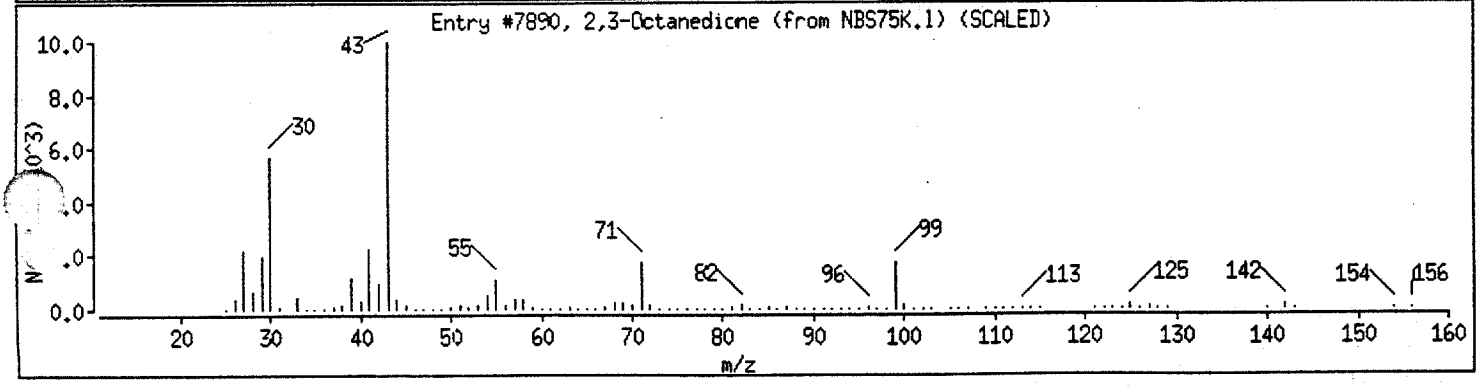
Data File: /chem/a900.i/d062994.b/d8776.d
Date : 29-JUN-94 15:05
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Piperidine, 4-methyl-	626-58-4	NBS75K.1	63292	32
2-Heptanone, 1-ethoxy-	51149-70-3	NBS75K.1	11970	25
2,3-Octanedione	585-25-1	NBS75K.1	7890	16



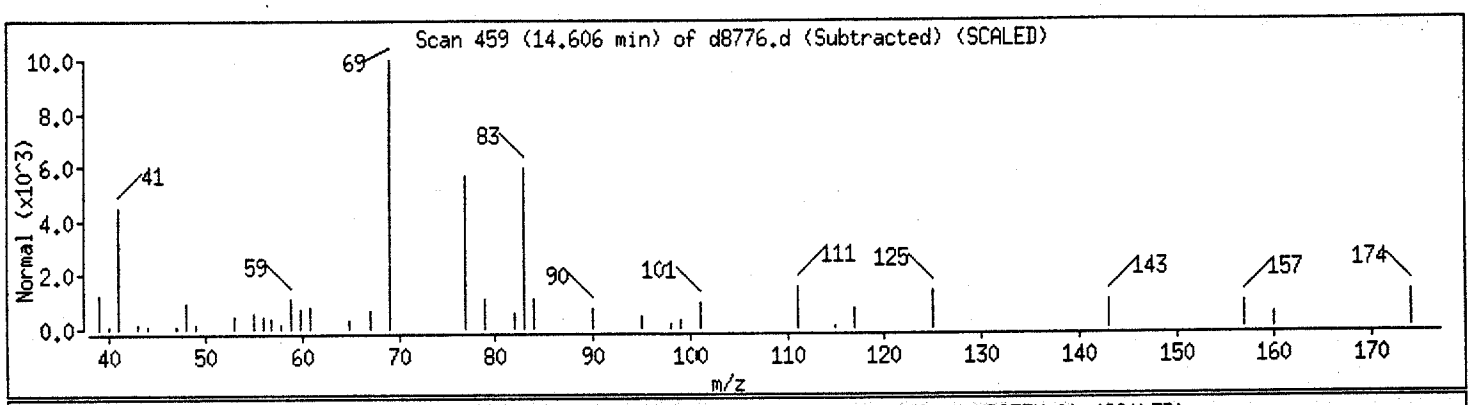


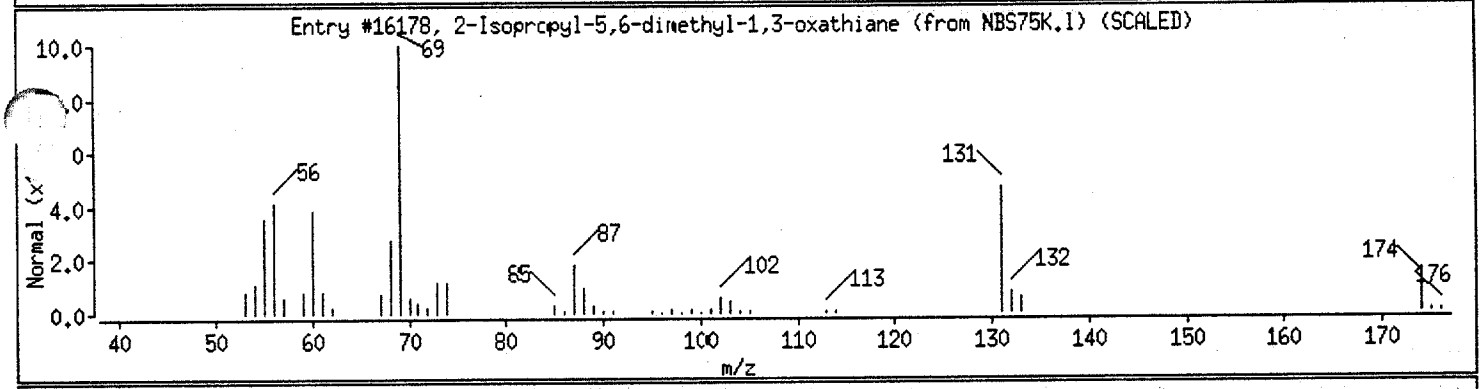




Data File: /chem/a900.i/d062994.b/d8776.d
Date : 29-JUN-94 15:05
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
2-Isopropyl-5,6-dimethyl-1,3-oxathiane	0-00-0	NBS75K.1	16178	12

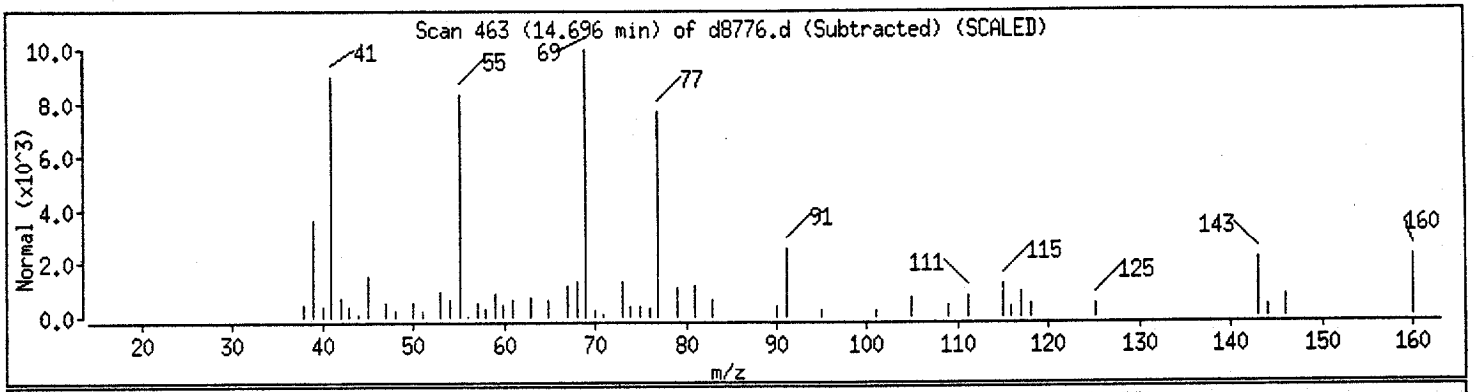


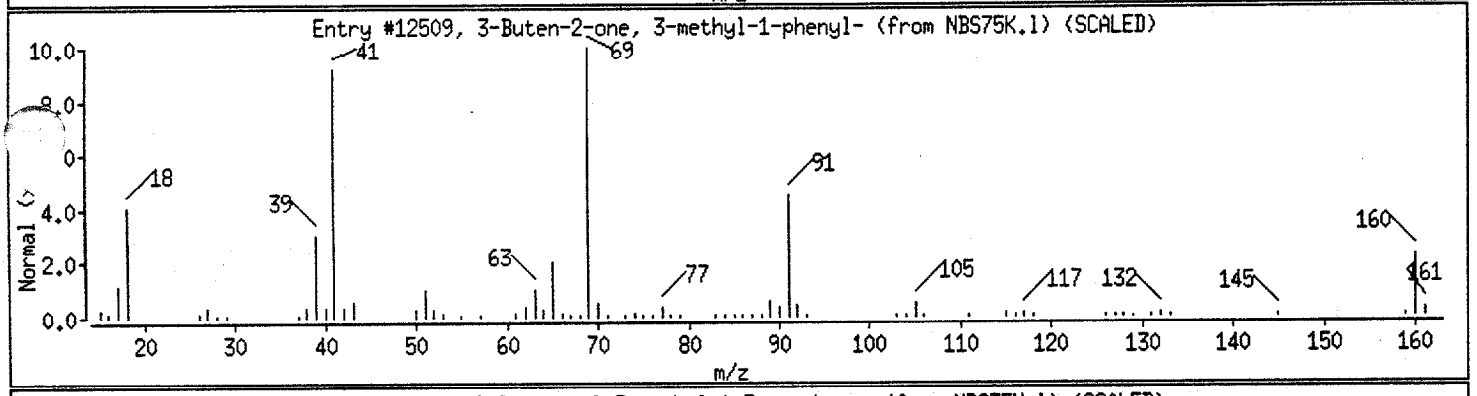


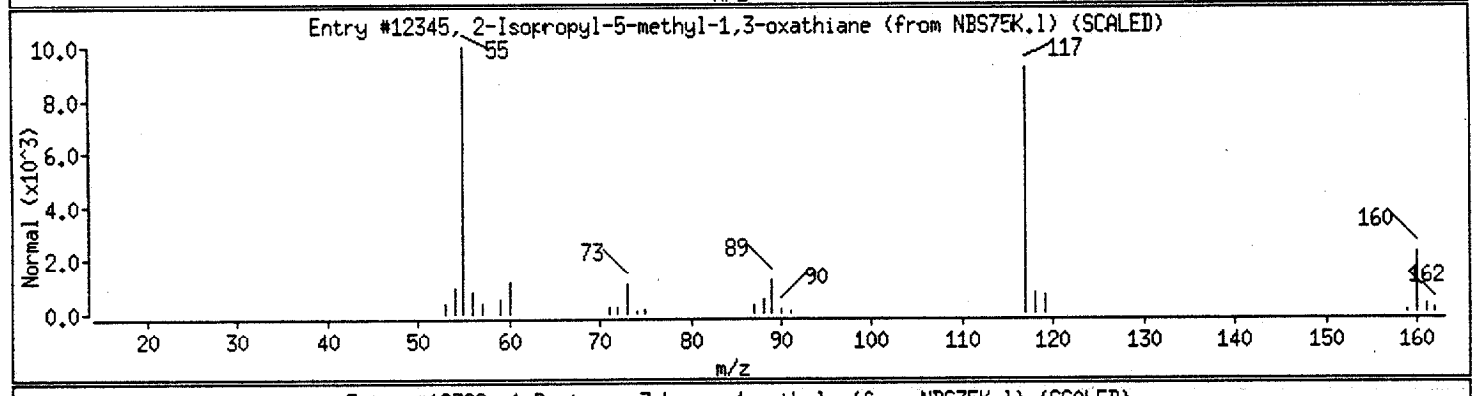
C6622

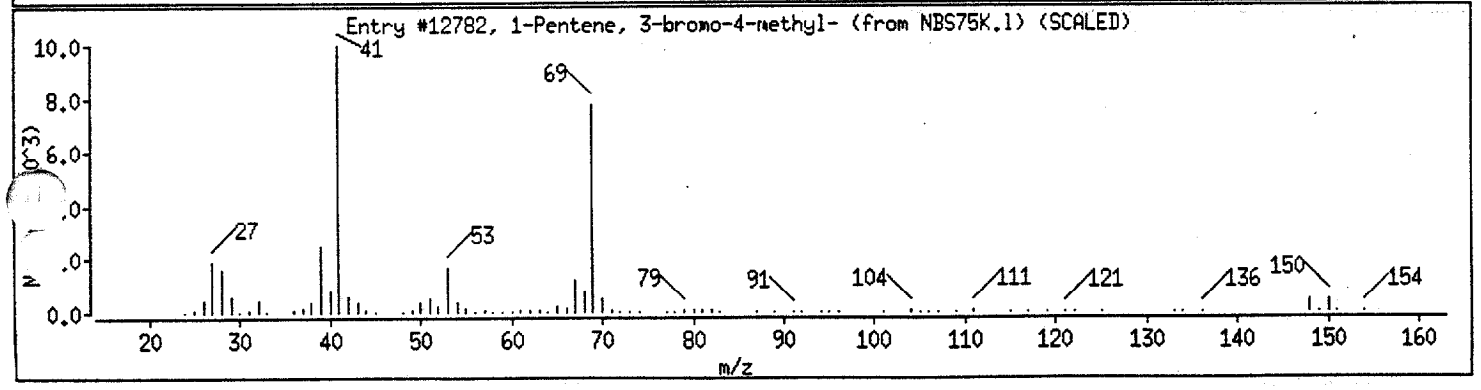
Data File: /chem/a900.i/d062994.b/d8776.d
Date : 29-JUN-94 15:05
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 1.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
3-Buten-2-one, 3-methyl-1-phenyl-	55956-30-4	NBS75K.l	12509	12
2-Isopropyl-5-methyl-1,3-oxathiane	0-00-0	NBS75K.l	12345	10
1-Pentene, 3-bromo-4-methyl-	815-47-4	NBS75K.l	12782	10





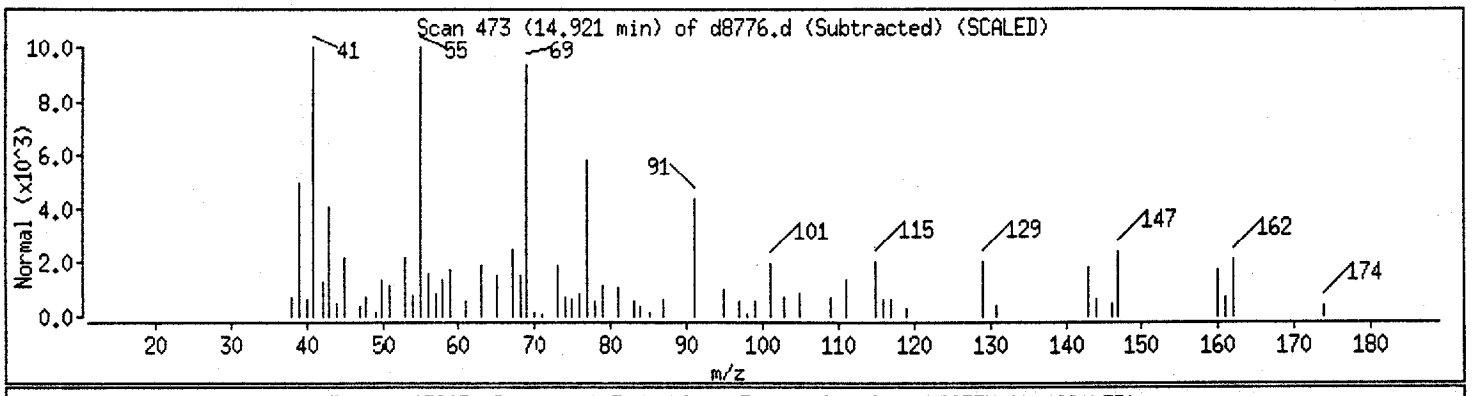


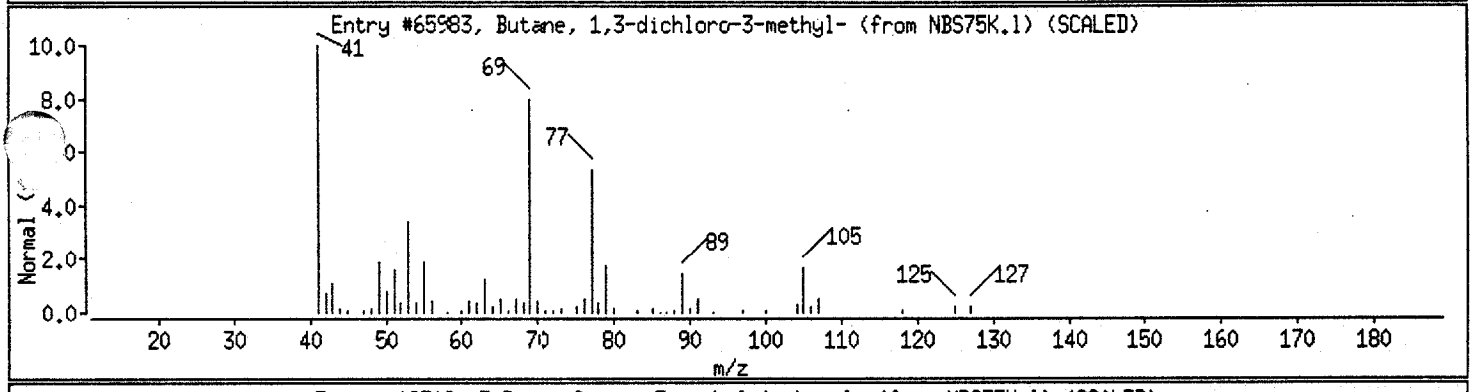


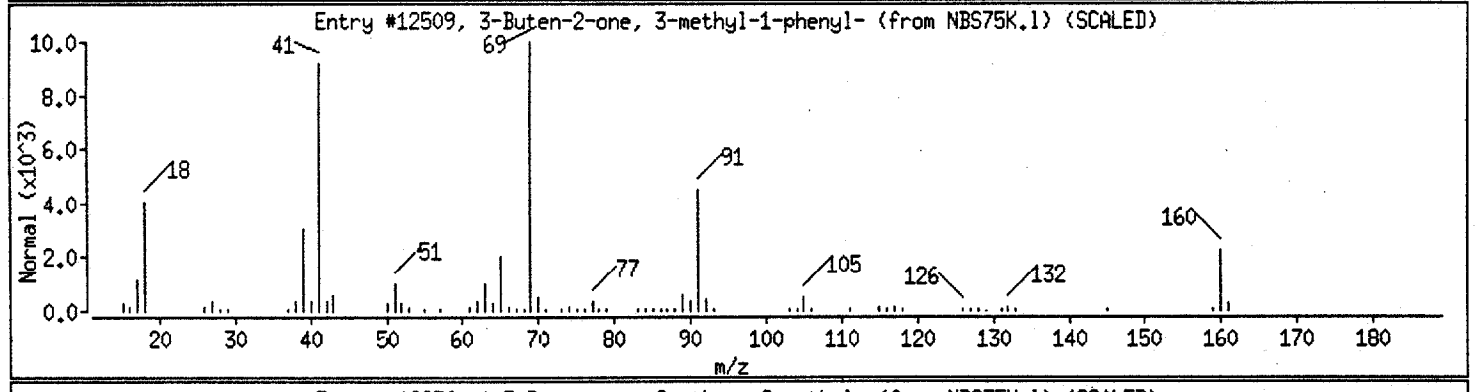
Data File: /chem/a900.i/d062994.b/d8776.d
Date : 29-JUN-94 15:05
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Column diameter : 0.25
Volume Injected (uL) : 1.0

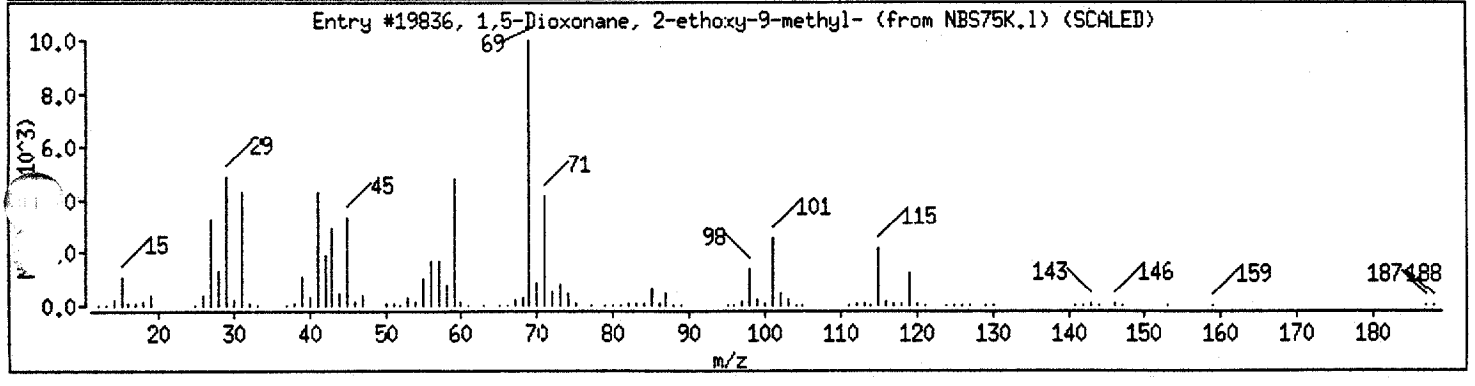
c6622

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Butane, 1,3-dichloro-3-methyl-	624-96-4	NBS75K.1	65983	32
3-Buten-2-one, 3-methyl-1-phenyl-	55956-30-4	NBS75K.1	12509	25
1,5-Dioxonane, 2-ethoxy-9-methyl-	55702-56-2	NBS75K.1	19836	17









2D

SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ASC Contract: NEESA

Lab Code: — Case No.: — SAS No.: — SDG No.: Clu17

Level: (low/med) low

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	C6617	0 D	0 D	0 D	0 D	0 D	0 D			0
02	C6618	72	91	94	78	59	33			0
03	C6619	0 D	0 D	0 D	0 D	0 D	0 D			0
04	C6620	0 D	0 D	0 D	0 D	0 D	0 D			0
05	SB1K01	24	45	99	49	26	70			0
06	SB1K02	74	88	97	81	59	71			0
07										
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		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(23-120)	
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)	
S3 (TPH)	= Terphenyl-d14	(18-137)	
S4 (PHL)	= Phenol-d5	(24-113)	
S5 (2FP)	= 2-Fluorophenol	(25-121)	
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)	
S7 (2CP)	= 2-Chlorophenol-d4	(20-130)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)

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

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ASC Contract: NewSA

Lab Code: — Case No.: — SAS No.: — SDG No.: CWU17

Level: (low/med) low

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	SBLK03	107	88.2	92.3	99.0	90.5	77.7			0
02	SSPK13	122*	~~99.0~~ D	101	10.6	99.6	110			1
03	C0621	D	D	D	D	D	D			6
04										
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		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(23-120)	
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)	
S3 (TPH)	= Terphenyl-d14	(18-137)	
S4 (PHL)	= Phenol-d5	(24-113)	
S5 (2FP)	= 2-Fluorophenol	(25-121)	
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)	
S7 (2CP)	= 2-Chlorophenol-d4	(20-130)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)

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

2C

WATER SEMIVOLATILE SURROGATE RECOVERY

0419

Lab Name: ASC Contract: NEESA

Lab Code: — Case No.: — SAS No.: — SDG No.: _____

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	WW-001MS	108	101	86	81	75	91			0
02	WW-001MSD	102	96	85	79	74	85			0
03	WW-001	68	60	73	33	33	48			0
04	C6622	107	85	87	56	61	78			0
05	SB1K01	79	78	88	47	51	67			0
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		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)	= 2-Chlorophenol-d4	(33-110)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(16-110)	(advisory)

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

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ASC Contract: NUSA

Lab Code: — Case No.: — SAS No.: — SDG No.: CLU17

Matrix Spike - EPA Sample No.: CLU17 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	See Comment				26- 90
2-Chlorophenol					25-102
1,4-Dichlorobenzene					28-104
N-Nitroso-di-n-prop.(1)					41-126
1,2,4-Trichlorobenzene					38-107
4-Chloro-3-methylphenol					26-103
Acenaphthene					31-137
4-Nitrophenol					11-114
2,4-Dinitrotoluene					28- 89
Pentachlorophenol					17-109
Pyrene					35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	See Comment				35	26- 90
2-Chlorophenol					50	25-102
1,4-Dichlorobenzene					27	28-104
N-Nitroso-di-n-prop.(1)					38	41-126
1,2,4-Trichlorobenzene					23	38-107
4-Chloro-3-methylphenol					33	26-103
Acenaphthene					19	31-137
4-Nitrophenol					50	11-114
2,4-Dinitrotoluene					47	28- 89
Pentachlorophenol					47	17-109
Pyrene					36	35-142

(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: _____ out of _____ outside limits
Spike Recovery: _____ out of _____ outside limits

COMMENTS: Because the spiked sample was run at a high dilution, MC matrix spike and duplicate results are required.

SEMIVOLATILE BLANK SPIKE RECOVERY

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: Rlel7

Blank Spike - EPA Sample No.: SBLK01

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC LIMITS REC.
Phenol	3330	0	2140	64.3	12-110
2-Chlorophenol	3330		1910	57.3	27-123
1,4-Dichlorobenzene	3330		863	25.9 *	36- 97
N-Nitroso-di-n-Prop.(1)	3330		2560	76.8	41-116
1,2,4-Trichlorobenzene	3330		1590	47.7	39- 98
4-Chloro-3-methylphenol	3330		2870	86.2	23- 97
Acenaphthene	3330		2670	80.2	46-118
4-Nitrophenol	3330		2500	74.9	10- 80
2,4-Dinitrotoluene	3330		3670	110 *	24- 96
Pentachlorophenol	3330		2820	84.7	9-103
Pyrene	3330		2910	87.2	26-127

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

Column to be used to flag recoveries with an asterisk

* Values outside of QC limits

Spike Recovery: 2 out of 11 outside limits

COMMENTS: _____

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ASC Contract: NEESA

Lab Code: ___ Case No.: ___ SAS No.: ___ SDG No.: CLW17

Matrix Spike - EPA Sample No.: C16021 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	5U	Comment			26- 90
2-Chlorophenol					25-102
1,4-Dichlorobenzene					28-104
N-Nitroso-di-n-prop.(1)					41-126
1,2,4-Trichlorobenzene					38-107
4-Chloro-3-methylphenol					26-103
Acenaphthene					31-137
4-Nitrophenol					11-114
2,4-Dinitrotoluene					28- 89
Pentachlorophenol					17-109
Pyrene					35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	5U	Comment			35	26- 90
2-Chlorophenol					50	25-102
1,4-Dichlorobenzene					27	28-104
N-Nitroso-di-n-prop.(1)					38	41-126
1,2,4-Trichlorobenzene					23	38-107
4-Chloro-3-methylphenol					33	26-103
Acenaphthene					19	31-137
4-Nitrophenol					50	11-114
2,4-Dinitrotoluene					47	28- 89
Pentachlorophenol					47	17-109
Pyrene					36	35-142

(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: ___ out of ___ outside limits
Spike Recovery: ___ out of ___ outside limits

COMMENTS: Because the spiked sample was run at a high dilution, no matrix-spike and duplicate results are required.

SEMIVOLATILE BLANK SPIKE RECOVERY

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CW117

Blank Spike - EPA Sample No.: SBLKQ3

COMPOUND	SPIKE ADDED ug/Kg (~~ug/L~~)	BLANK CONCENTRATION (~~ug/L~~) ug/Kg	BS CONCENTRATION (~~ug/L~~) ug/Kg	BS % REC #	QC LIMITS REC.
Phenol	500000	0	670000	134 *	12-110
2-Chlorophenol			670000	134 *	27-123
1,4-Dichlorobenzene			~~670000~~ 560000	112 *	36- 97
N-Nitroso-di-n-Prop.(1)			870000	174 *	41-116
1,2,4-Trichlorobenzene			560000	112 *	39- 98
Chloro-3-methylphenol			695000	139 *	23- 97
enaphthene			590000	118	46-118
Nitrophenol			665000	133 *	10- 80
2,4-Dinitrotoluene			660000	132 *	24- 96
Pentachlorophenol			655000	131 *	9-103
Pyrene			540000	108	26-127

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

Column to be used to flag recoveries with an asterisk

* Values outside of QC limits

Spike Recovery: 9 out of 11 outside limits

COMMENTS: QC Limits listed are for waters.

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ASC Contract: NEESA

Lab Code: — Case No.: — SAS No.: — SDG No.: _____

Matrix Spike - EPA Sample No.: WW-001

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Phenol	200	0	130	65	12-110
2-Chlorophenol			170	85	27-123
1,4-Dichlorobenzene			140	70	36- 97
N-Nitroso-di-n-prop.(1)			200	100	41-116
1,2,4-Trichlorobenzene			140	70	39- 98
4-Chloro-3-methylphenol			170	85	23- 97
Acenaphthene			160	80	46-118
4-Nitrophenol			87	43	10- 80
2,4-Dinitrotoluene			190	95	24- 96
Pentachlorophenol			150	75	9-103
Pyrene	↓	↓	160	80	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	200	120	60	8	42	12-110
2-Chlorophenol		170	85	0	40	27-123
1,4-Dichlorobenzene		140	70	0	28	36- 97
N-Nitroso-di-n-prop.(1)		210	105	5	38	41-116
1,2,4-Trichlorobenzene		140	70	0	28	39- 98
4-Chloro-3-methylphenol		170	85	0	42	23- 97
Acenaphthene		170	85	6	31	46-118
4-Nitrophenol		110	55	24	50	10- 80
2,4-Dinitrotoluene		200	100	5	38	24- 96
Pentachlorophenol		150	75	0	50	9-103
Pyrene	↓	160	80	0	31	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

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS: _____

4B

EPA SAMPLE NO. 0425

SEMIVOLATILE METHOD BLANK SUMMARY

SB1K01

Name: ASC Contract: NEESA

Lab Code: — Case No.: — SAS No.: — SDG No.: CW17

Lab File ID: D8743 Lab Sample ID: NZ408STC

Instrument ID: MSD-D Date Extracted: 062794

Matrix: (soil/water) Soil Date Analyzed: 062794

Level: (low/med) low Time Analyzed: 23:43

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	C6617	JM9434C	D8757	062894
02	C66189	JM9436C	D8758	↓
03	C66F20	JM9437C	D8759	↓
04				
05				
06				
07				
08				
09				
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COMMENTS:

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK02

Name: ASC Contract: NE23A

Lab Code: — Case No.: — SAS No.: — SDG No.: CW17

Lab File ID: D8754 Lab Sample ID: N2CW854A

Instrument ID: MSD-D Date Extracted: 062794

Matrix: (soil/water) Soil Date Analyzed: 062894

Level: (low/med) low Time Analyzed: 16:20

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	C6618	JM9435C	D8756	062894
02				
03	-			
04				
05				
06				
07				
08				
09				
10				
11				
12				
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COMMENTS:

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.: SBLK03

Lab Name: ASC Contract: Nest

Lab Code: — Case No.: — SAS No.: — SDG No.: Clw17

Lab File ID: D8789 Lab Sample ID: JM4C4685MC

Instrument ID: MSD-D Date Extracted: 06-30-94

Matrix: (soil/water) Soil Date Analyzed: 06-30-94

Level: (low/med) LOW Time Analyzed: 1606

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SSPK03	JM4C4685MCS	D8790	06-30-94
02	CLW601	JM5438	D8788	"
03				
04				
05				
06				
07				
08				
09				
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COMMENTS:

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SB1K01

Name: ASC Contract: NCEISA

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

Lab File ID: D8771 Lab Sample ID: NIC40848C

Instrument ID: MSD-D Date Extracted: 062894

Matrix: (soil/water) WATER Date Analyzed: 062994

Level: (low/med) low Time Analyzed: 10:52

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	WW-001MS	JM9452CS	D8773	062994
02	WW-001MSD	JM9452CR	D8774	
03	WW-001	JM9452C	D8775	
04	C6627	JM9439C	D8776	
05				
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COMMENTS:

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ASC Contract: NEESA

Lab Code: — Case No.: — SAS No.: — SDG No.: Cell7

Lab File ID: 08722 DFTPP Injection Date: 062494

Instrument ID: MSD-D DFTPP Injection Time: 12:01

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	48.4
68	Less than 2.0% of mass 69	0.0 (0)1
69	Mass 69 relative abundance	66.3
70	Less than 2.0% of mass 69	0.3 (0.4)1
127	25.0 - 75.0% of mass 198	47.1
197	Less than 1.0% of mass 198	Ø
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.3
275	10.0 - 30.0% of mass 198	20.0
365	Greater than 0.75% of mass 198	2.0
441	Present, but less than mass 443	6.2
442	40.0 - 110.0% of mass 198	41.9
443	15.0 - 24.0% of mass 442	17.7 (18.5)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	SSTD80	SSTD80	D8723	062494	12:34
02	SSTD50	SSTD50	D8724	"	13:24
03	SSTD20	SSTD20	D8725	"	14:13
04	SSTD120	SSTD120	D8726	"	15:03
05	SSTD160	SSTD160	D8727	"	15:52
06					
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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ASC Contract: NEESA

Lab Code: — Case No.: — SAS No.: — SDG No.: CW17

Lab File ID: D8732 DFTPP Injection Date: 062794

Instrument ID: MSD-D DFTPP Injection Time: 13:58

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	48.6
68	Less than 2.0% of mass 69	Ø (Ø)1
69	Mass 69 relative abundance	62.9
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	25.0 - 75.0% of mass 198	44.0
197	Less than 1.0% of mass 198	Ø
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	19.5
365	Greater than 0.75% of mass 198	1.6
441	Present, but less than mass 443	7.3
442	40.0 - 110.0% of mass 198	52.6
443	15.0 - 24.0% of mass 442	10.0 (19.0)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	SSTD80	SSTD80	D8733	062794	14:19
02	SBIK01	N2C4085IC	D8743	062794	23:43
03					
04					
05					
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ASC Contract: NE23A

Lab Code: — Case No.: — SAS No.: — SDG No.: C1e117

Lab File ID: D8752 DFTPP Injection Date: 062894

Instrument ID: MSD-D DFTPP Injection Time: 14:15

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	50.3
68	Less than 2.0% of mass 69	0 (0)1
69	Mass 69 relative abundance	63.2
70	Less than 2.0% of mass 69	.3 (.5)1
127	25.0 - 75.0% of mass 198	40.8
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	6.6
275	10.0 - 30.0% of mass 198	17.2
365	Greater than 0.75% of mass 198	1.2
441	Present, but less than mass 443	6.5
442	40.0 - 110.0% of mass 198	45.7
443	15.0 - 24.0% of mass 442	8.8 (19.3)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	SSTD80	SSTD80	D8753	062894	14:35
02	SBLK02	N2C40851A	D8754		16:20
03	C6618	JM9435C	D8756		17:59
04	C6617	JM9434C	D8757		18:48
05	C6619	JM9436C	D8758		19:38
06	C6620	JM9437C	D8759	↓	20:27
07					
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ASC Contract: NEESA

Lab Code: — Case No.: — SAS No.: — SDG No.: C6617

Lab File ID: D8769 DFTPP Injection Date: 062994

Instrument ID: MSD-D DFTPP Injection Time: 9.33

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	51.2
68	Less than 2.0% of mass 69	0 (0)1
69	Mass 69 relative abundance	64.7
70	Less than 2.0% of mass 69	0.5 (0.8)1
127	25.0 - 75.0% of mass 198	41.4
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	6.9
275	10.0 - 30.0% of mass 198	19.7
365	Greater than 0.75% of mass 198	1.5
441	Present, but less than mass 443	7.7
442	40.0 - 110.0% of mass 198	53.0
443	15.0 - 24.0% of mass 442	10.3 (19.5)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	SSTD80	SSTD80	D8770	062994	9:54
02	SBLK01	NIC40848C	D8771		10:57
03	SSPK01	NIC40848CS	D8772		11:46
04	WW-001MS	JM9452CS	D8773		12:36
05	WW-001MSD	JM9452CR	D8774		13:25
06	WW-001	JM9452C	D8775		14:15
07	C6622	JM9439C	D8776	↓	15:05
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ASC Contract: NEESA

Lab Code: ____ Case No.: ____ SAS No.: ____ SDG No.: CL6617

Lab File ID: D8786 DFTPP Injection Date: 063094

Instrument ID: MSA-D DFTPP Injection Time: 1333

m/e	ION ABUNDANCE CRITERIA		% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198		57.32
68	Less than 2.0% of mass 69		0.00 ( ) 1
69	Mass 69 relative abundance		64.69
70	Less than 2.0% of mass 69		0.00 ( ) 1
127	25.0 - 75.0% of mass 198		42.33
197	Less than 1.0% of mass 198		0.00
198	Base Peak, 100% relative abundance		100
199	5.0 to 9.0% of mass 198		7.24
275	10.0 - 30.0% of mass 198		21.39
365	Greater than 0.75% of mass 198		4.75
441	Present, but less than mass 443	73.05	~~7.20~~
442	40.0 - 110.0% of mass 198		58.18
443	15.0 - 24.0% of mass 442	18.89	~~4.05~~ ( ) 2
			DC 7/15/94

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	SBLK03	N4C4C854C	D8789	063094	1245
02	SSTD03	N4C4C854CS	D8790	↓	2359
03	CL6621	JM9438	↓	↓	1516
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68

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 31617

Instrument ID: MSD D Calibration Date(s): 6-24-94 6-24-94

Calibration Times: 1443 1234 1552

LAB FILE ID: RRF20 = D8725 RRF50 = D8724

RRF80 = D8723 RRF120 = D8726 RRF160 = D8727

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	%RSD
Phenol	*1.938	1.997	1.684	1.408	1.684	1.824	7.74
bis(2-Chloroethyl)ether	*3.430	3.272	3.217	2.953	2.727	3.121	8.98
2-Chlorophenol	*1.835	1.501	1.392	1.420	1.390	1.508	12.5
1,3-Dichlorobenzene	*2.345	1.766	1.491	1.590	1.479	1.714	18.6
1,4-Dichlorobenzene	*2.345	1.766	1.636	1.590	1.479	1.743	17.1
1,2-Dichlorobenzene	*1.792	1.598	1.471	1.433	1.352	1.569	11.1
2-Methylphenol	*1.705	1.405	1.309	1.241	1.162	1.364	15.4
2,2'-oxybis(1-Chloropropane)	2.783	2.171	1.662	2.383	2.442	2.288	18.1
4-Methylphenol	*1.783	1.479	1.381	1.312	1.195	1.430	15.6
N-Nitroso-di-n-propylamine	*1.429	1.141	1.065	.9716	.9299	1.107	17.9
Hexachloroethane	*.9446	.7809	.7400	.7177	.6866	.7740	13.1
Nitrobenzene	*.5460	.4312	.3958	.4057	.3796	.4318	15.5
Isophorone	*1.173	.9327	.8517	.8648	.8273	.9298	15.2
2-Nitrophenol	*.3175	.2316	.2015	.1802	.1543	.2170	29.0
2,4-Dimethylphenol	*.4986	.3939	.3704	.3220	.2854	.3741	21.8
bis(2-Chloroethoxy)methane	*.6783	.5274	.4681	.4738	.4489	.5193	18.0
2,4-Dichlorophenol	*.4293	.3499	.3090	.2968	.2451	.3260	21.1
1,2,4-Trichlorobenzene	*.5036	.3875	.3363	.3418	.3025	.3743	20.9
Naphthalene	*1.449	1.082	.9941	.9263	.8090	1.052	23.1
4-Chloroaniline	.3661	.4072	.3875	.3932	.3613	.3830	5.00
Hexachlorobutadiene	.2940	.2232	.1949	.1931	.1731	.2157	21.9
4-Chloro-3-methylphenol	*.4722	.3998	.3670	.3626	.3376	.3678	13.4
2-Methylnaphthalene	*.9449	.7114	.6451	.5874	.5053	.6788	24.6
Hexachlorocyclopentadiene	—	.2318	.1960	.2241	.1983	.2152	9.55
2,4,6-Trichlorophenol	*.5117	.4437	.3722	.3873	.3439	.4118	16.2
2,4,5-Trichlorophenol	*.5530	.4383	.3775	.3328	.2795	.3962	26.6
2-Chloronaphthalene	*1.461	1.171	1.043	.9758	.8535	1.100	21.1
2-Nitroaniline	.4540	.4176	.3906	.4155	.3894	.4134	6.36
Dimethylphthalate	1.959	1.568	1.394	1.300	1.187	1.482	20.3
Acenaphthylene	*2.241	1.819	1.612	1.520	1.339	1.706	20.2
2,6-Dinitrotoluene	*.5005	.3985	.3491	.3484	.3213	.3734	13.6
3-Nitroaniline	.1823	.2092	.2232	.3120	.3113	.2476	24.3
Acenaphthene	*1.551	1.233	1.095	.9534	.8348	1.134	24.5
2,4-Dinitrophenol	.0495	.1204	.1132	.1596	.1754	.1236	39.6
4-Nitrophenol	.0647	.1056	.1455	.1206	.1265	.1126	27.0
Dibenzofuran	*2.003	1.532	1.332	1.167	1.006	1.408	27.4
2,4-Dinitrotoluene	*.5303	.4513	.4002	.3355	.2832	.4001	24.2

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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ASC Contract: NEESA

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

Instrument ID: MSD D Calibration Date(s): 6-24-94 6-24-94

Calibration Times: 12'34 15'52

LAB FILE ID: RRF20 = D8725 RRF50 = D8724
RRF80 = D8723 RRF120 = D8726 RRF160 = D8727

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	%RSD
Diethylphthalate	2.036	1.642	1.449	1.310	1.143	1.516	22.7
4-Chlorophenyl-phenylether *	.8521	.6730	.5510	.5414	.4772	.6189	24.0 *
Fluorene *	1.666	1.313	1.131	1.010	.9070	1.215	24.0 *
4-Nitroaniline	.2132	.1835	.2391	.2997	.2909	.2453	20.3
4,6-Dinitro-2-methylphenol	.1301	.1367	.1293	.1387	.1273	.1324	3.75
N-Nitrosodiphenylamine (1)	.7325	.5430	.5081	.4698	.4127	.5334	22.7
4-Bromophenyl-phenylether *	.3135	.2459	.2074	.2257	.1992	.2383	19.2 *
Hexachlorobenzene *	.40916	.309	.2581	.2902	.2580	.3053	20.4 *
Pentachlorophenol *	—	.1122	.1189	.1416	.1365	.1273	11.0 *
Phenanthrene *	1.497	1.154	1.086	.9936	.8453	1.115	21.8 *
Anthracene *	1.541	1.176	1.111	1.018	.8725	1.143	21.8 *
Carbazole	1.316	1.106	1.017	.9797	.8461	1.053	16.6
Di-n-butylphthalate	2.490	1.876	1.811	1.470	1.131	1.756	28.8
Fluoranthene *	1.646	1.294	1.203	1.117	.9349	1.239	21.3 *
Pyrene *	1.740	1.398	1.203	1.079	.9273	1.269	24.8 *
Butylbenzylphthalate	1.092	.7591	.7098	.5049	.3966	.6925	38.7
3,3'-Dichlorobenzidine	.4293	.3077	.2696	.2361	.1894	.3044	24.0
Benzo(a)anthracene *	1.503	1.330	1.216	1.126	1.057	1.208	14.6 *
Chrysene *	1.470	1.202	1.058	1.064	.9343	1.146	17.9 *
bis(2-Ethylhexyl)phthalate	1.660	1.259	1.183	1.016	.8141	1.196	25.1
Di-n-octylphthalate	3.637	2.901	2.605	2.436	2.172	2.750	20.4
Benzo(b)fluoranthene *	2.254	1.575	1.379	1.330	1.184	1.584	24.4 *
Benzo(k)fluoranthene *	2.091	1.943	1.725	1.627	1.523	1.822	11.8 *
Benzo(a)pyrene *	1.748	1.444	1.298	1.337	1.248	1.415	14.1 *
Indeno(1,2,3-cd)pyrene *	1.608	1.438	1.403	1.372	1.252	1.415	9.11 *
Dibenz(a,h)anthracene *	1.291	1.165	1.128	1.129	1.043	1.151	7.82 *
Benzo(g,h,i)perylene *	1.237	1.109	1.098	1.053	.9552	1.090	9.37 *
Nitrobenzene-d5	.5134	.4175	.3919	.3979	.3785	.4198	12.9
2-Fluorobiphenyl *	1.666	1.211	1.082	.8655	.6836	1.102	34.0 *
Terphenyl-d14 *	1.291	.9911	.8145	.8317	.7360	.9429	22.8 *
Phenol-d5 *	1.956	1.685	1.465	1.440	1.363	1.582	15.2 *
2-Fluorophenol *	1.466	1.273	1.218	1.278	1.229	1.292	7.76 *
2,4,6-Tribromophenol	.2288	.2103	.1617	.1907	.1824	.1948	13.3
2-Chlorophenol-d4 *							*
1,2-Dichlorobenzene-d4 *							*

1) Cannot be separated from Diphenylamine

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

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA

Lab Code: — Case No.: — SAS No.: — SDG No.: Cle017

Instrument ID: MSD-D Calibration Date: 06/27/94 Time: 15:17

Lab File ID: D8733 Init. Calib. Date(s): 06/24/94 —

Init. Calib. Times: 12:34 15:52

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D	
Phenol	1.824	1.912	0.800	4.8	25.0	
bis(2-Chloroethyl)ether	3.121	3.260	0.700	4.5	25.0	
2-Chlorophenol	1.508	1.406	0.800	6.7	25.0	
1,3-Dichlorobenzene	1.714	1.537	0.600	10.3	25.0	
1,4-Dichlorobenzene	1.743	1.537	0.500	11.8	25.0	
1,2-Dichlorobenzene	1.529	1.376	0.400	10.3	25.0	
2-Methylphenol	1.364	1.274	0.700	6.6	25.0	
2,2'-oxybis(1-Chloropropane)	2.288	1.937		15.4		
4-Methylphenol	1.430	1.311	0.600	8.3	25.0	
N-Nitroso-di-n-propylamine	1.107	0.995	0.500	10.1	25.0	
Hexachloroethane	0.774	0.715	0.300	7.6	25.0	
Nitrobenzene	0.432	0.404	0.200	6.4	25.0	
Isophorone	0.938	0.872	0.400	6.2	25.0	
2-Nitrophenol	0.217	0.195	0.100	9.9	25.0	
2,4-Dimethylphenol	0.374	0.347	0.200	7.1	25.0	
bis(2-Chloroethoxy)methane	0.579	0.491	0.300	5.4	25.0	
2,4-Dichlorophenol	0.326	0.293	0.200	10.3	25.0	
1,2,4-Trichlorobenzene	0.374	0.313	0.200	16.5	25.0	
Naphthalene	1.052	0.937	0.700	10.9	25.0	
4-Chloroaniline	0.383	0.387		0.9		
Hexachlorobutadiene	0.216	0.167		22.5		
4-Chloro-3-methylphenol	0.388	0.334	0.200	13.9	25.0	
2-Methylnaphthalene 0.679	~~0.679~~	~~0.590~~	0.400	~~13.1~~	25.0	13.1 DC 7/15/94
Hexachlorocyclopentadiene	0.215	0.193		10.4		
2,4,6-Trichlorophenol	0.412	0.373	0.200	9.5	25.0	
2,4,5-Trichlorophenol	0.396	0.347	0.200	12.4	25.0	
2-Chloronaphthalene	1.101	1.033	0.800	6.2	25.0	
2-Nitroaniline	0.413	0.423		2.2		
Dimethylphthalate	1.482	1.324		10.7		
Acenaphthylene	1.706	1.615	1.000	5.3	25.0	
2,6-Dinitrotoluene	0.373	0.339	0.200	9.1	25.0	
3-Nitroaniline	0.246	0.274		10.6		
Acenaphthene	1.134	1.046	0.800	7.7	25.0	
2,4-Dinitrophenol	0.124	0.090		27.0		
4-Nitrophenol	0.113	0.103		8.8		
Dibenzofuran	1.408	1.328	0.800	5.6	25.0	
2,6-Dinitrotoluene	0.420	0.390	0.200	2.4	25.0	

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA

Lab Code: ____ Case No.: ____ SAS No.: ____ SDG No.: C06617

Instrument ID: MSD-D Calibration Date: 062794 Time: 1517

Lab File ID: DE733 Init. Calib. Date(s): 062494 ____

Init. Calib. Times: 1234 1552

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D	
Diethylphthalate	1.576	1.407		7.2		
4-Chlorophenyl-phenylether	0.619	0.540	0.400	12.7	25.0	
Fluorene	1.215	1.116	0.900	8.2	25.0	
4-Nitroaniline	0.245	0.226		8.0		
4,6-Dinitro-2-methylphenol	0.132	0.131		1.0		
N-Nitrosodiphenylamine (1)	0.533	0.517		3.0		
4-Bromophenyl-phenylether	0.238	0.201	0.100	15.5	25.0	
Hexachlorobenzene	0.305	0.252	0.100	17.4	25.0	
Pentachlorophenol	0.127	0.098	0.050	22.6	25.0	
Phenanthrene	1.115	1.016	0.700	8.9	25.0	
Anthracene	1.144	1.041	0.700	8.7	25.0	
Carbazole	1.053	0.989		6.1		
Di-n-butylphthalate	1.756	1.456		17.1		
Fluoranthene	1.234	1.098	0.600	11.4	25.0	
Pyrene	1.269	1.249	0.600	1.6	25.0	
Butylbenzylphthalate	0.692	0.719		3.9		
3,3'-Dichlorobenzidine	0.306	0.326		16.1		
Benzo(a)anthracene	1.208	1.076	0.800	10.9	25.0	
Chrysene	1.146	1.017	0.700	11.2	25.0	
bis(2-Ethylhexyl)phthalate	1.196	1.204		0.6		
Di-n-octylphthalate	2.752	2.799		1.8		
Benzo(b)fluoranthene	1.524	1.457	0.700	5.0	25.0	
Benzo(k)fluoranthene	1.822	1.624	0.700	10.9	25.0	
Benzo(a)pyrene	1.415	1.276	0.700	9.8	25.0	
Indeno(1,2,3-cd)pyrene	1.415	1.220	0.500	13.8	25.0	
Dibenz(a,h)anthracene	1.151	0.994	0.400	13.6	25.0	
Benzo(g,h,i)perylene	1.070	0.966	0.500	11.4	25.0	
Nitrobenzene-d5	0.420	0.399	0.200	5.1	25.0	
2-Fluorobiphenyl	1.102	1.032	0.700	6.3	25.0	
Terphenyl-d14	0.943	0.875	0.500	7.3	25.0	
Phenol-d5 DE715/64 1.582	1.475	~~1.502~~	~~1.365~~	0.800	6.7	25.0
2-Fluorophenol 1.293	1.368	~~1.402~~	~~1.032~~	0.600	~~6.3~~	25.0 5.8%
2,4,6-Tribromophenol	0.195	0.152		21.7		
2-Chlorophenol-d4			0.800		25.0	
1,2-Dichlorobenzene-d4			0.400		25.0	

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA

Lab Code: ____ Case No.: ____ SAS No.: ____ SDG No.: C1e17

Instrument ID: MSD-D Calibration Date: 062894 Time: 1435

Lab File ID: D8753 Init. Calib. Date(s): 062494 ____

Init. Calib. Times: 1234 1552

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.824	2.018	0.800	10.6	25.0
bis(2-Chloroethyl)ether	3.121	3.557	0.700	14.0	25.0
2-Chlorophenol	1.508	1.504	0.800	0.3	25.0
1,3-Dichlorobenzene	1.714	1.658	0.600	3.3	25.0
1,4-Dichlorobenzene	1.743	1.658	0.500	4.9	25.0
1,2-Dichlorobenzene DE 7/15/94	1.569	1.405	0.400	10.5	25.0
2-Methylphenol	1.364	1.416	0.700	3.8	25.0
2,2'-oxybis(1-Chloropropane)	2.288	2.701		18.1	
4-Methylphenol	1.430	1.316	0.600	8.0	25.0
N-Nitroso-di-n-propylamine	1.107	1.105	0.500	0.2	25.0
Hexachloroethane	0.774	0.690	0.300	10.9	25.0
Nitrobenzene	0.432	0.408	0.200	5.6	25.0
Isophorone	0.930	0.805	0.400	13.5	25.0
2-Nitrophenol DE 7/15/94	0.217	0.197	0.100	9.3	25.0
2,4-Dimethylphenol	0.374	0.334	0.200	10.8	25.0
bis(2-Chloroethoxy)methane	0.579	0.579	0.300	0	25.0
2,4-Dichlorophenol	0.326	0.290	0.200	11.1	25.0
1,2,4-Trichlorobenzene	0.374	0.300	0.200	19.9	25.0
Naphthalene	1.052	0.880	0.700	24.0	25.0
4-Chloroaniline	0.383	0.402		4.4	
Hexachlorobutadiene	0.216	0.156		27.8	
4-Chloro-3-methylphenol	0.388	0.356	0.200	8.3	25.0
2-Methylnaphthalene	0.679	0.571	0.400	15.9	25.0
Hexachlorocyclopentadiene	0.215	0.167		22.2	
2,4,6-Trichlorophenol	0.412	0.366	0.200	11.0	25.0
2,4,5-Trichlorophenol	0.396	0.320	0.200	19.3	25.0
2-Chloronaphthalene	1.101	0.971	0.300	11.8	25.0
2-Nitroaniline	0.413	0.423		2.2	
Dimethylphthalate	1.482	1.221		17.6	
Acenaphthylene	1.706	1.354	1.000	20.6	25.0
2,6-Dinitrotoluene	0.373	0.353	0.200	5.8	25.0
3-Nitroaniline	0.246	0.323		30.3	
Acenaphthene	1.134	0.952	0.800	16.0	25.0
2,4-Dinitrophenol	0.124	0.108		12.8	
4-Nitrophenol	0.113	0.084		25.5	
Dibenzofuran	1.408	1.220	0.800	13.4	25.0
2,6-Dinitrotoluene	0.400	0.344	0.200	14.0	25.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NelSA

Lab Code: ____ Case No.: ____ SAS No.: ____ SDG No.: C4167

Instrument ID: MSD-D Calibration Date: 062894 Time: 1435

Lab File ID: D8753 Init. Calib. Date(s): 062494 ____

Init. Calib. Times: 1234 1552

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.576	1.158		23.6	
4-Chlorophenyl-phenylether	0.619	0.579	0.400	16.2	25.0
Fluorene	1.215	1.001	0.900	17.7	25.0
4-Nitroaniline	0.245	0.257		4.9	
4,6-Dinitro-2-methylphenol	0.132	0.120		9.6	
N-Nitrosodiphenylamine (1)	0.533	0.494		7.3	
4-Bromophenyl-phenylether	0.238	0.206	0.100	13.7	25.0
Hexachlorobenzene	0.305	0.249	0.100	18.4	25.0
Pentachlorophenol	0.127	0.113	0.050	10.9	25.0
Phenanthrene	1.115	0.906	0.700	16.7	25.0
Anthracene	1.144	0.945	0.700	17.4	25.0
Carbazole	1.053	0.944		10.3	
Di-n-butylphthalate	1.750	1.007		42.6	
Fluoranthene	1.239	0.950	0.600	23.4	25.0
Pyrene	1.269	1.272	0.600	0.2	25.0
Butylbenzylphthalate	0.692	0.824		18.9	
3,3'-Dichlorobenzidine	0.306	0.369		20.4	
Benzo(a)anthracene	1.208	1.078	0.800	10.8	25.0
Chrysene	1.146	0.992	0.700	13.4	25.0
bis(2-Ethylhexyl)phthalate	1.196	0.950		20.6	
Di-n-octylphthalate	2.750	2.107		23.4	
Benzo(b)fluoranthene	1.584	1.369	0.700	13.6	25.0
Benzo(k)fluoranthene	1.822	1.780	0.700	2.3	25.0
Benzo(a)pyrene	1.415	1.263	0.700	10.7	25.0
Indeno(1,2,3-cd)pyrene	1.415	1.263	0.500	10.7	25.0
Dibenz(a,h)anthracene	1.157	1.007	0.400	12.5	25.0
Benzo(g,h,i)perylene	1.090	1.005	0.500	7.9	25.0
Nitrobenzene-d5	0.420	0.393	0.200	6.5	25.0
2-Fluorobiphenyl	1.102	0.872	0.700	20.8	25.0
Terphenyl-d14	0.943	0.907	0.500	3.8	25.0
Phenol-d5	1.582	1.564	0.800	1.1	25.0
2-Fluorophenol	1.293	1.424	0.600	10.1	25.0
2,4,6-Tribromophenol	0.195	0.165		15.1	
2-Chlorophenol-d4			0.800		25.0
1,2-Dichlorobenzene-d4			0.400		25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA

Lab Code: — Case No.: — SAS No.: — SDG No.: C6617

Instrument ID: MSD-D Calibration Date: 062994 Time: 9.54

Lab File ID: D8770 Init. Calib. Date(s): 062494 062494

Init. Calib. Times: 12:34 15:52

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Phenol	1.824	1.871	0.800	2.6	25.0
bis(2-Chloroethyl)ether	3.121	3.186	0.700	2.1	25.0
2-Chlorophenol	1.508	1.404	0.800	6.9	25.0
1,3-Dichlorobenzene	1.714	1.416	0.600	17.4	25.0
1,4-Dichlorobenzene	1.743	1.717	0.500	1.5	25.0
1,2-Dichlorobenzene	1.569	1.459	0.400	7.0	25.0
2-Methylphenol	1.364	1.392	0.700	2.0	25.0
2,2'-oxybis(1-Chloropropane)	2.288	2.947		28.8	
4-Methylphenol	1.430	1.266	0.600	11.5	25.0
N-Nitroso-di-n-propylamine	1.107	.980	0.500	11.5	25.0
Hexachloroethane	.774	.702	0.300	9.3	25.0
Nitrobenzene	.432	.378	0.200	12.4	25.0
Isophorone	.930	.834	0.400	10.3	25.0
2-Nitrophenol	.217	.202	0.100	7.1	25.0
2,4-Dimethylphenol	.374	.329	0.200	12.1	25.0
bis(2-Chloroethoxy)methane	.519	.488	0.300	6.0	25.0
2,4-Dichlorophenol	.326	.302	0.200	7.4	25.0
1,2,4-Trichlorobenzene	.374	.329	0.200	12.2	25.0
Naphthalene	1.052	.957	0.700	9.6	25.0
4-Chloroaniline	.383	.398		4.0	
Hexachlorobutadiene	.216	.181		15.9	
4-Chloro-3-methylphenol	.388	.347	0.200	10.5	25.0
2-Methylnaphthalene	.679	.610	0.400	10.2	25.0
Hexachlorocyclopentadiene	.215	.210		2.5	
2,4,6-Trichlorophenol	.412	.364	0.200	11.7	25.0
2,4,5-Trichlorophenol	.396	.348	0.200	12.2	25.0
2-Chloronaphthalene	1.101	.995	0.800	9.7	25.0
2-Nitroaniline	.413	.402		2.9	
Dimethylphthalate	1.482	1.295		12.6	
Acenaphthylene	1.706	1.546	1.300	9.4	25.0
2,6-Dinitrotoluene	.373	.344	0.200	7.9	25.0
3-Nitroaniline	.248	.305		23.1	
Acenaphthene	1.134	.971	0.800	14.4	25.0
2,4-Dinitrophenol	.124	.123		.7	
4-Nitrophenol	.113	.081		28.5	
Dibenzofuran	1.408	1.333	0.800	5.3	25.0
2,4-Dinitrotoluene	.400	.366	0.200	8.4	25.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: HSC Contract: NEESA

Lab Code: — Case No.: — SAS No.: — SDG No.: C6617

Instrument ID: MSD-D Calibration Date: 062994 Time: 0454

Lab File ID: D8770 Init. Calib. Date(s): 062494 062494

Init. Calib. Times: 1234 1552

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.576	1.278		15.7	
4-Chlorophenyl-phenylether	.619	.577	0.400	6.7	25.0
Fluorene	1.215	1.114	0.900	8.3	25.0
4-Nitroaniline	.245	.259		5.7	
4,6-Dinitro-2-methylphenol	.132	.126		4.8	
N-Nitrosodiphenylamine (1)	.533	.470		11.8	
4-Bromophenyl-phenylether	.238	.212	0.100	10.9	25.0
Hexachlorobenzene	.305	.272	0.100	11.0	25.0
Pentachlorophenol	.127	.122	0.050	4.3	25.0
Phenanthrene	1.115	.969	0.700	13.1	25.0
Anthracene	1.144	.955	0.700	13.0	25.0
Carbazole	1.053	.952		9.6	
Di-n-butylphthalate	1.756	1.189		32.3	
Fluoranthene	1.239	1.037	0.600	16.3	25.0
Pyrene	1.269	1.236	0.600	2.6	25.0
Butylbenzylphthalate	.692	.698		0.9	
3,3'-Dichlorobenzidine	.306	.369		20.4	
Benzo(a)anthracene	1.208	1.064	0.800	11.9	25.0
Chrysene	1.146	1.025	0.700	10.6	25.0
bis(2-Ethylhexyl)phthalate	1.196	.796		33.5	
Di-n-octylphthalate	2.750	2.176		20.9	
Benzo(b)fluoranthene	1.584	1.497	0.700	5.5	25.0
Benzo(k)fluoranthene	1.822	1.537	0.700	15.6	25.0
Benzo(a)pyrene	1.415	1.247	0.700	11.9	25.0
Indeno(1,2,3-cd)pyrene	1.415	1.198	0.500	15.4	25.0
Dibenz(a,h)anthracene	1.159	.968	0.400	15.9	25.0
Benzo(g,h,i)perylene	1.090	.934	0.500	14.4	25.0
Nitrobenzene-d5	.420	.355	0.200	15.4	25.0
2-Fluorobiphenyl	1.102	.912	0.700	17.3	25.0
Terphenyl-d14	.943	.909	0.500	3.6	25.0
Phenol-d5	1.582	1.411	0.800	10.8	25.0
2-Fluorophenol	1.293	1.281	0.600	0.9	25.0
2,4,6-Tribromophenol	.195	.198		1.6	
2-Chlorophenol-d4			0.800		25.0
1,2-Dichlorobenzene-d4			0.400		25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: Aeesa

Lab Code: — Case No.: — SAS No.: — SDG No.: CW617

Instrument ID: HSD-D Calibration Date: 063094 Time: 1359

Lab File ID: D8787 Init. Calib. Date(s): 062494 —

Init. Calib. Times: 1234 1552

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.824	2.109	0.800	15.6	25.0
bis(2-Chloroethyl)ether	3.121	3.787	0.700	21.3	25.0
2-Chlorophenol	1.528	1.379	0.800	8.5	25.0
1,3-Dichlorobenzene	1.714	1.757	0.600	2.3	25.0
1,4-Dichlorobenzene	1.743	1.757	0.500	0.5	25.0
1,2-Dichlorobenzene	1.565	1.430	0.400	8.9	25.0
2-Methylphenol	1.364	1.457	0.700	6.8	25.0
2,2'-oxybis(1-Chloropropane)	2.788	3.217		40.6	
4-Methylphenol	1.430	1.493	0.600	4.4	25.0
N-Nitroso-di-n-propylamine	1.167	1.161	0.500	4.9	25.0
Hexachloroethane	0.774	0.744	0.300	3.8	25.0
Nitrobenzene	0.432	0.393	0.200	8.9	25.0
Isophorone	0.930	0.861	0.400	7.4	25.0
2-Nitrophenol	0.217	0.191	0.100	12.0	25.0
2,4-Dimethylphenol	0.374	0.340	0.200	9.1	25.0
bis(2-Chloroethoxy)methane	0.579	0.500	0.300	13.7	25.0
2,4-Dichlorophenol	0.324	0.266	0.200	18.5	25.0
1,2,4-Trichlorobenzene	0.374	0.284	0.200	24.2	25.0
Naphthalene	1.052	0.927	0.700	11.9	25.0
4-Chloroaniline	0.383	0.387		1.1	
Hexachlorobutadiene	0.214	0.150		30.4	
4-Chloro-3-methylphenol	0.388	0.332	0.200	14.4	25.0
2-Methylnaphthalene	0.679	0.621	0.400	8.6	25.0
Hexachlorocyclopentadiene	0.215	0.155		27.9	
2,4,6-Trichlorophenol	0.412	0.305	0.200	25.9	25.0
2,4,5-Trichlorophenol	0.396	0.318	0.200	19.6	25.0
2-Chloronaphthalene	1.101	0.915	0.300	16.9	25.0
2-Nitroaniline	0.413	0.416		0.6	
Dimethylphthalate	1.482	1.192		19.6	
Acenaphthylene	1.796	1.418	1.300	16.9	25.0
2,6-Dinitrotoluene	0.373	0.303	0.200	18.7	25.0
3-Nitroaniline	0.248	0.286		15.4	
Acenaphthene	1.134	0.992	0.800	12.5	25.0
2,4-Dinitrophenol 0.124	~~0.400~~	~~0.393~~ 0.112		~~1.9~~	8.0
4-Nitrophenol	0.113	0.098		13.3	
Dibenzofuran	1.408	1.388	0.800	1.4	25.0
2,4-Dinitrotoluene	0.400	0.393	0.200	1.9	25.0

DL 7/15/94

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NoESA

Lab Code: — Case No.: — SAS No.: — SDG No.: CLL017

Instrument ID: HSD-D Calibration Date: 06/30/94 Time: 1359

Lab File ID: D8787 Init. Calib. Date(s): 06/24/94 —

Init. Calib. Times: 1234 1552

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.516	1.345		11.3	
4-Chlorophenyl-phenylether	0.619	0.538	0.400	13.0	25.0
Fluorene	1.215	1.130	0.900	7.0	25.0
4-Nitroaniline	0.245	0.241		1.8	
4,6-Dinitro-2-methylphenol	0.132	0.119		10.1	
N-Nitrosodiphenylamine (1)	0.533	0.485		9.1	
4-Bromophenyl-phenylether	0.238	0.194	0.100	18.8	25.0
Hexachlorobenzene	0.305	0.238	0.100	22.1	25.0
Pentachlorophenol	0.127	0.104	0.050	18.1	25.0
Phenanthrene	1.115	0.909	0.700	18.5	25.0
Anthracene	1.144	0.956	0.700	16.4	25.0
Carbazole	1.053	0.845		19.8	
Di-n-butylphthalate	1.756	1.084		38.3	
Fluoranthene	1.239	0.964	0.600	22.2	25.0
Pyrene	1.269	1.160	0.600	8.6	25.0
Butylbenzylphthalate	0.692	0.789		13.9	
3,3'-Dichlorobenzidine	0.306	0.343		11.8	
Benzo(a)anthracene	1.208	1.024	0.800	15.2	25.0
Chrysene	1.146	0.944	0.700	17.7	25.0
bis(2-Ethylhexyl)phthalate	1.196	0.997		16.9	
Di-n-octylphthalate	2.750	2.282		17.1	
Benzo(b)fluoranthene	1.584	1.284	0.700	18.9	25.0
Benzo(k)fluoranthene	1.822	1.835	0.700	0.7	25.0
Benzo(a)pyrene	1.415	1.196	0.700	15.5	25.0
Indeno(1,2,3-cd)pyrene	1.415	1.133	0.500	19.9	25.0
Dibenz(a,h)anthracene	1.157	0.915	0.400	20.5	25.0
Benzo(g,h,i)perylene	1.090	0.862	0.500	20.9	25.0
Nitrobenzene-d5	0.420	0.378	0.200	10.0	25.0
2-Fluorobiphenyl	1.102	0.962	0.700	12.7	25.0
Terphenyl-d14	0.943	0.843	0.500	10.6	25.0
Phenol-d5	1.583	1.674	0.800	5.8	25.0
2-Fluorophenol	1.393	1.263	0.600	9.1	25.0
2,4,6-Tribromophenol	0.195	0.169		13.0	
2-Chlorophenol-d4			0.800		25.0
1,2-Dichlorobenzene-d4			0.400		25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0444

Lab Name: ASC Contract: NCEESA

Lab Code: — Case No.: — SAS No.: — SDG No.: Clele17

Lab File ID (Standard): D8733 Date Analyzed: 062794

Instrument ID: MSD-D Time Analyzed: 14:19

	EPA SAMPLE NO.	IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	76882	9.87	280085	12.33	152311	16.18
	UPPER LIMIT	153764	10.37	560170	12.83	304622	16.68
	LOWER LIMIT	38441	9.37	140042	11.83	76155	15.68
01	SB1R01	109717	9.87	394652	12.33	222571	16.18
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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

0445

Name: IASC Contract: NEESA

Lab Code: — Case No.: — SAS No.: — SDG No.: CW017

Lab File ID (Standard): D8733 Date Analyzed: 062794

Instrument ID: MSD-D Time Analyzed: 14:19

	EPA SAMPLE NO.	IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	223882	19.53	195561	25.64	150873	30.56
	UPPER LIMIT	447764	20.05	391122	26.14	301746	31.06
	LOWER LIMIT	111941	19.05	97780	25.14	75436	30.06
01	SB1K01	331621	19.51	271117	25.60	173242	30.54
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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.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ASC Contract: NEESA

Lab Code: — Case No.: — SAS No.: — SDG No.: Cell7

Lab File ID (Standard): D8753 Date Analyzed: 062894

Instrument ID: MSD-D Time Analyzed: 14:35

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	116791	9.40	470696	11.77	278708	15.58
	UPPER LIMIT	233582	9.90	941392	12.27	557416	16.08
	LOWER LIMIT	58395	8.90	235348	11.27	139354	15.08
	EPA SAMPLE NO.						
01	SB1K02	119467	9.42	464865	11.79	281578	15.59
02	C6618	118991	9.40	447335	11.76	265443	15.57
03	C6617	124655	9.40	498290	11.77	292949	15.58
04	C6619	132861	9.40	516136	11.77	301449	15.58
05	C6620	132926	9.42	536044	11.76	302911	15.57
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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

0447

Name: ASC Contract: NEESA

Lab Code: — Case No.: — SAS No.: — SDG No.: Cell17

Lab File ID (Standard): BE753 Date Analyzed: 062894

Instrument ID: MSD-D Time Analyzed: 14.35

	EPA SAMPLE NO.	IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	408743	18.90	310277	24.88	228989	29.25
	UPPER LIMIT	817486	19.40	620554	25.38	457978	29.75
	LOWER LIMIT	204371	18.40	155138	24.38	114494	28.75
01	SB1K02	430674	18.91	343668	24.88	220492	29.27
02	C6618	415202	18.88	332801	24.88	209143	29.25
03	C6617	434720	18.90	334940	24.87	211729	29.25
04	C6619	449882	18.89	352846	24.87	66528	29.33
05	C6620	443154	18.88	332140	24.87	109589 *	29.24
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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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0448

Lab Name: ASL Contract: NEESA

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

Lab File ID (Standard): _____ Date Analyzed: _____

Instrument ID: MSD-D Time Analyzed: _____

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT
	12 HOUR STD	74111	9.40	327182	11.77	215591	15.58
	UPPER LIMIT	148222	9.90	654624	12.27	431182	16.08
	LOWER LIMIT	37055	8.90	163541	11.27	107795	15.08
	EPA SAMPLE NO.						
01	[illegible]	64067	9.40	268315	11.77	179962	15.57
02	~~[illegible] SPIKE~~	71579	9.40	293522	11.74	180863	15.55
03	~~[illegible]~~	60193	9.39	262851	11.75	166736	15.55
04	~~SPIKE~~	52403					
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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

0449

Lab Name: ASC Contract: NEESA

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

Lab File ID (Standard): _____ Date Analyzed: _____

Instrument ID: MSD-D Time Analyzed: _____

	IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD	352841	18.92	300079	24.88	200112	29.22
UPPER LIMIT	705682	19.42	600158	25.38	400224	29.72
LOWER LIMIT	176420	18.42	150039	24.38	100056	28.72
EPA SAMPLE NO.						
01 SSBLK01	297146	18.87	291499	24.88	203644	29.23
02 ~~SBLK02~~ SSBLK03	296852	18.86	281153	24.86	195134	29.20
03 ~~BLK+BS~~	292473	18.87	274774	24.85	169938	29.21
04 SSBLK02						
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DC DISP

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

0450

Lab Name: MSC Contract: NEESA

Lab Code: — Case No.: — SAS No.: — SDG No.: _____

Lab File ID (Standard): BE770 Date Analyzed: 062994

Instrument ID: MSD-D Time Analyzed: 9:54

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	71571	9.42	286619	11.87	185647	15.60
	UPPER LIMIT	143142	9.92	1433095	12.29	371294	16.10
	LOWER LIMIT	35785	8.92	573238	11.29	92823	15.10
	EPA SAMPLE NO.						
01	SB1K01	72222	9.40	263845	11.76	167994	15.59
02	WW-001MS	64778	9.40	269026	11.77	165078	15.57
03	WW-001MSD	61136	9.40	252082	11.76	153904	15.57
04	WW-001	58657	9.42	232922	11.76	141189	15.57
05	C6622	58927	9.40	233915	11.76	150753	15.57
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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: NE23A

Lab Code: — Case No.: — SAS No.: — SDG No.: _____

Lab File ID (Standard): 15E770 Date Analyzed: 062994

Instrument ID: MSD-D Time Analyzed: 9.54

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	305799	18.90	259546	24.90	193878	29.326
	UPPER LIMIT	611598	19.40	519092	25.40	387756	29.76
	LOWER LIMIT	152899	18.40	129773	24.40	96939	28.76
	EPA SAMPLE NO.						
01	SB1K01	268994	18.90	263062	2488	173501	29.23
02	WW-001MS	279901	18.90	263461	24.87	170436	29.22
03	WW-001MSD	260302	18.89	240847	24.89	153998	29.22
04	WW-001	222639	18.88	215753	24.87	141193	29.23
05	C6622	229999	18.89	213572	24.86	141972	29.22
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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.

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C46617

Lab Name: ASC Contract: NUSA

Lab Code: — Case No.: — SAS No.: — SDG No.: C46617 ~~C46617 NA~~

Matrix: (soil/water) Soil Lab Sample ID: JM9434

Sample wt/vol: 30.2 (g/mL) g Lab File ID: ^Z5422

% Moisture: 22.1 decanted: (Y/N) N Date Received: 6/23/94

Extraction: (SepF/Cont/Sonc) SON Date Extracted: 6/24/94

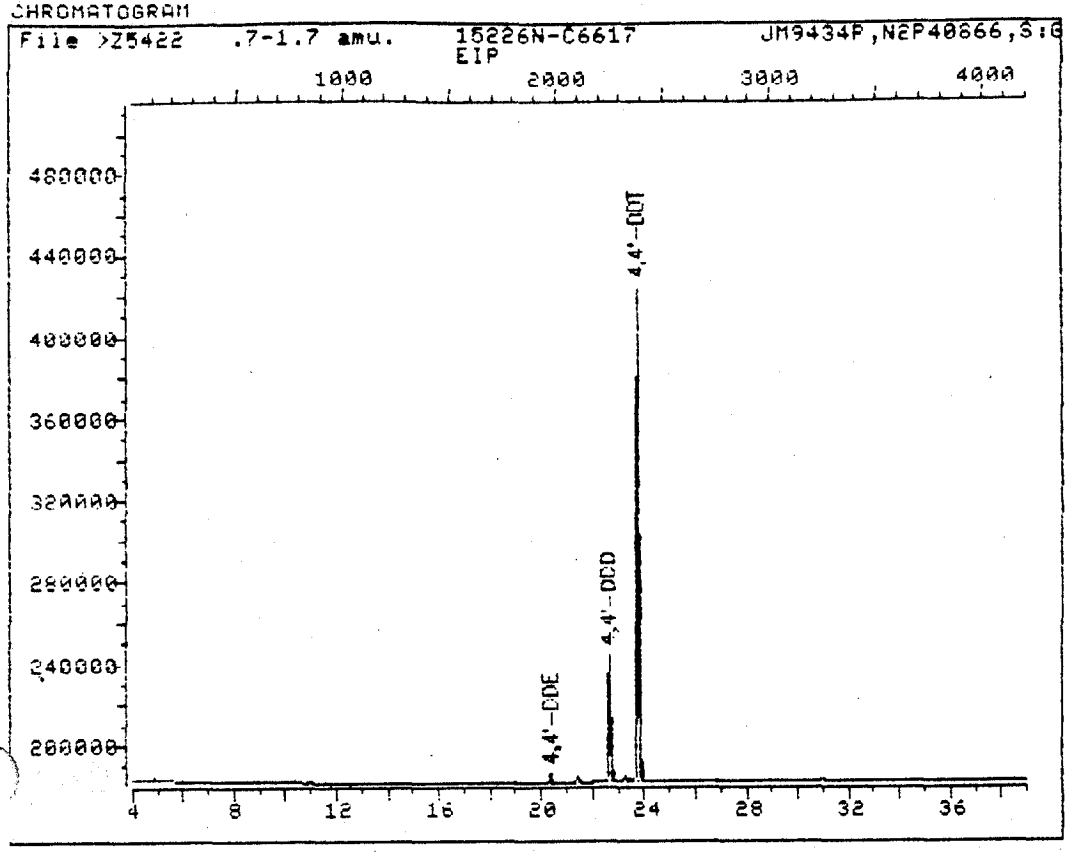
Concentrated Extract Volume: 5000 (uL) Date Analyzed: 7/5/94 07/7/94

Injection Volume: 1.0 (uL) Dilution Factor: ~~20000~~ 200000

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	2130000	U
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin	4250000	
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD	15600000	
1031-07-8	Endosulfan sulfate	4250000	U
50-29-3	4,4'-DDT	506000	B
72-43-5	Methoxychlor	21300000	U
53494-70-5	Endrin ketone	4250000	
7421-36-3	Endrin aldehyde		
5103-71-9	alpha-Chlordane	2130000	
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene DL 7/7/94 21300000	~~42500000~~	
12674-11-2	Aroclor-1016	42500000	
11104-28-2	Aroclor-1221	85000000	
11141-16-5	Aroclor-1232	42500000	
53469-21-9	Aroclor-1242		
12672-29-6	Aroclor-1248		
11097-69-1	Aroclor-1254		
11096-82-5	Aroclor-1260		

CHROMATOGRAM



C6617

Data File: >Z5422::D5 Quant Output File: ^Z5422::D5
Name: 15226N-C6617 Instrument ID: Z
Misc: JM9434P,N2P40866,S:G5,23.52,50:200000

Id File: IZPMRG::D5
Title: PESTICIDES DB-608 BY GC B2 (FRONT) MIX A NEESA 1.00UL
Last Calibration: 940702 09:21 Last Qcal Time: 940702 01:32

Operator ID: USER2
Quant Time : 940705 22:57
Injected at: 940705 22:17

QUANT REPORT Page 1

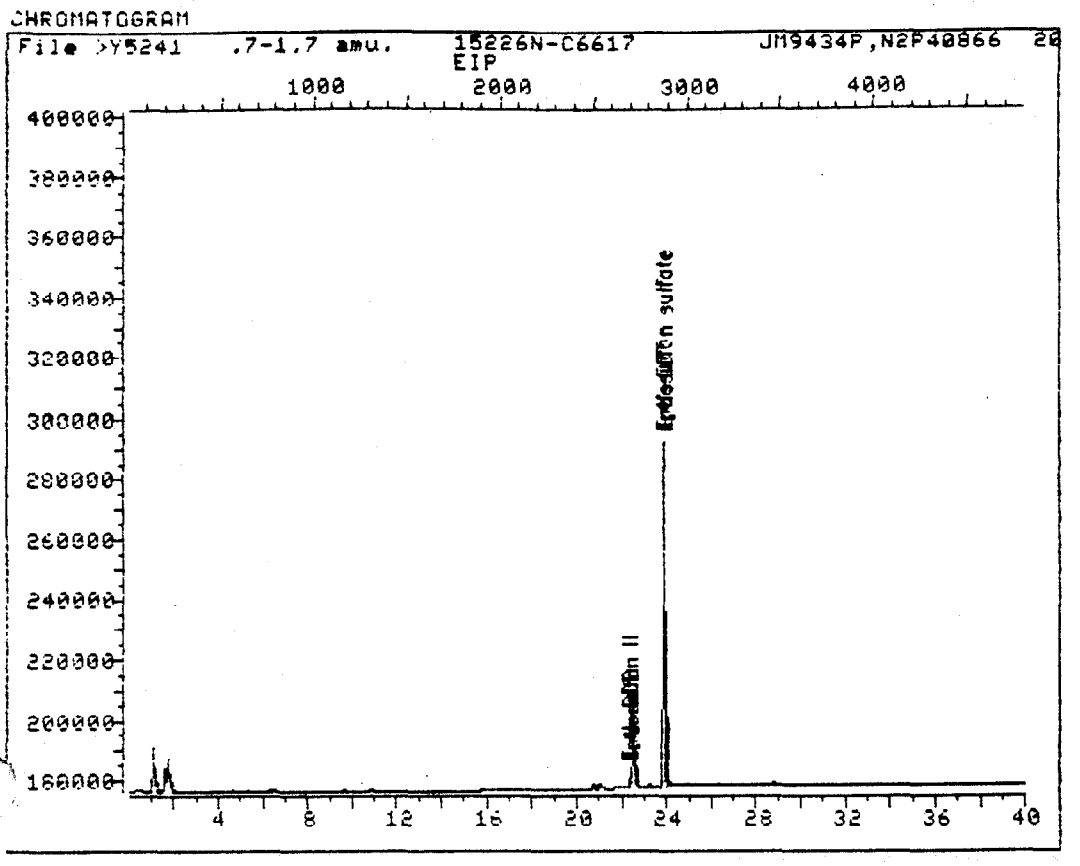
Operator ID: USER2 Quant Rev: 7 Quant Time: 940705 22:57
Output File: ^Z5422::D5 Injected at: 940705 22:17
Data File: >Z5422::D5 Dilution Factor: 1.00000
Name: 15226N-C6617 Instrument ID: Z
Misc: JM9434P,N2P40866,S:G5,23.52,50:200000

ID File: IZPMRG::D5
Title: PESTICIDES DB-608 BY GC B2 (FRONT) MIX A NEESA 1.00UL
Last Calibration: 940702 09:21 Last Qcal Time: 940702 01:32

	Compound	R.T.	Scan#	Area	Conc	Units	q
8)	#4,4'-DDD	22.59	2232	332320	.0366	ug/ml	100 ✓
9)	#4,4'-DDT	23.76	2372	1106987	.119	ug/ml	100 ✓
~~28)~~	~~#4,4'-DDE~~	20.33	1961	20736	~~.00169~~	~~ug/ml~~	~~100~~

Compound uses ESTD

AK
7/6/94



C6617

Data File: >Y5241::D5 Quant Output File: ^Y5241::D5
Name: 15226N-C6617 Instrument ID: Y
Misc: JM9434P,N2P40866 200000X

Id File: IYPMRG::D5
Title: PESTICIDES DB-5 BY GC B2 (REAR) MIX A NEESA 1.00UL
Last Calibration: 940702 11:25 Last Qcal Time: 940702 02:18

Operator ID: USER2
Quant Time : 940705 23:44
Injected at: 940705 23:02

QUANT REPORT Page 1

Operator ID: USER2 Quant Rev: 7 Quant Time: 940705 23:44
Output File: ^Y5241::D5 Injected at: 940705 23:02
Data File: >Y5241::D5 Dilution Factor: 1.00000
Name: 15226N-C6617 Instrument ID: Y
Misc: JM9434P,N2P40866 200000X

ID File: IYPMRG::D5
Title: PESTICIDES DB-5 BY GC B2 (REAR) MIX A NEESA 1.00UL
Last Calibration: 940702 11:25 Last Qcal Time: 940702 02:18

	Compound	R.T.	Scan#	Area	Conc	Units	q
8)	#4,4'-DDD	22.39	2687	23711	.00568	ug/ml	100
9)	#4,4'-DDT	23.89	2867	554720	.114	ug/ml	100
~~29)~~	~~#Endosulfan II~~	22.39	2687	23711	~~.00365~~	~~ug/ml~~	~~100~~
~~31)~~	~~#Endosulfan sulfate~~	23.89	2867	554720	~~.0940~~	~~ug/ml~~	~~100~~

Compound uses ESTD

QC
9/6/94

1D

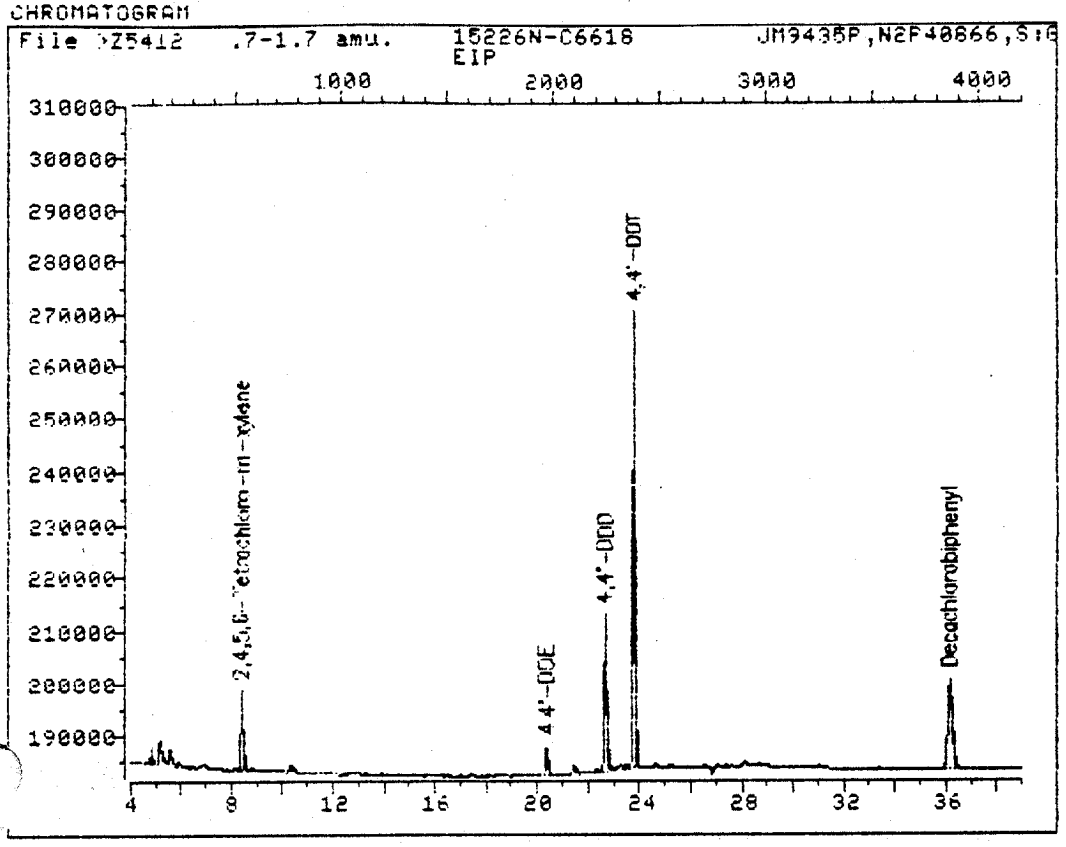
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 0457

Lab Name: ASC	Contract: NESA	CWI8	
Lab Code: —	Case No.: —	SAS No.: —	SDG No.: NA CWI7
Matrix: (soil/water) Soil		Lab Sample ID: JM9435	
Sample wt/vol: 5.25 (g/mL) g		Lab File ID: 175412	
% Moisture: 57.5 decanted: (Y/N) —		Date Received: 6/23/94	
Extraction: (SepF/Cont/Sonc) SON		Date Extracted: 6/24/94	
Concentrated Extract Volume: 5000 (uL)		Date Analyzed: 7/5/94	
Injection Volume: 1.0 (uL)		Dilution Factor: 20	
GPC Cleanup: (Y/N) N	pH: NA	Sulfur Cleanup: (Y/N) N	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	224	U
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin	448	
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT	2030	B
72-43-5	Methoxychlor	2240	U
53494-70-5	Endrin ketone	448	
7421-36-3	Endrin aldehyde	224	
5103-71-9	alpha-Chlordane	224	
5103-74-2	gamma-Chlordane	22400	
8001-35-2	Toxaphene	4480	
12674-11-2	Aroclor-1016	8970	
11104-28-2	Aroclor-1221	4480	
11141-16-5	Aroclor-1232		
53469-21-9	Aroclor-1242		
12672-29-6	Aroclor-1248		
11097-69-1	Aroclor-1254		
11096-82-5	Aroclor-1260		

CHROMATOGRAM



C6618

Data File: >Z5412::D5 Quant Output File: ^Z5412::D5
Name: 15226N-C6618 Instrument ID: Z
Misc: JM9435P,N2P40866,S:G5,2.23,5:20,

Id File: IZPMRG::D5
Title: PESTICIDES DB-608 BY GC B2 (FRONT) MIX A NFESA 1.00UL
Last Calibration: 940702 09:21 Last Qcal Time: 940702 01:32

Operator ID: USER2
Quant Time : 940705 14:44
Injected at: 940705 14:04

QUANT REPORT Page 1

Operator ID: USER2 Quant Rev: 7 Quant Time: 940705 14:44
Output File: ^Z5412::D5 Injected at: 940705 14:04
Data File: >Z5412::D5 Dilution Factor: 1.00000
Name: 15226N-C6618 Instrument ID: Z
Misc: JM9435P,N2P40866,S:G5,2.23,5:20,

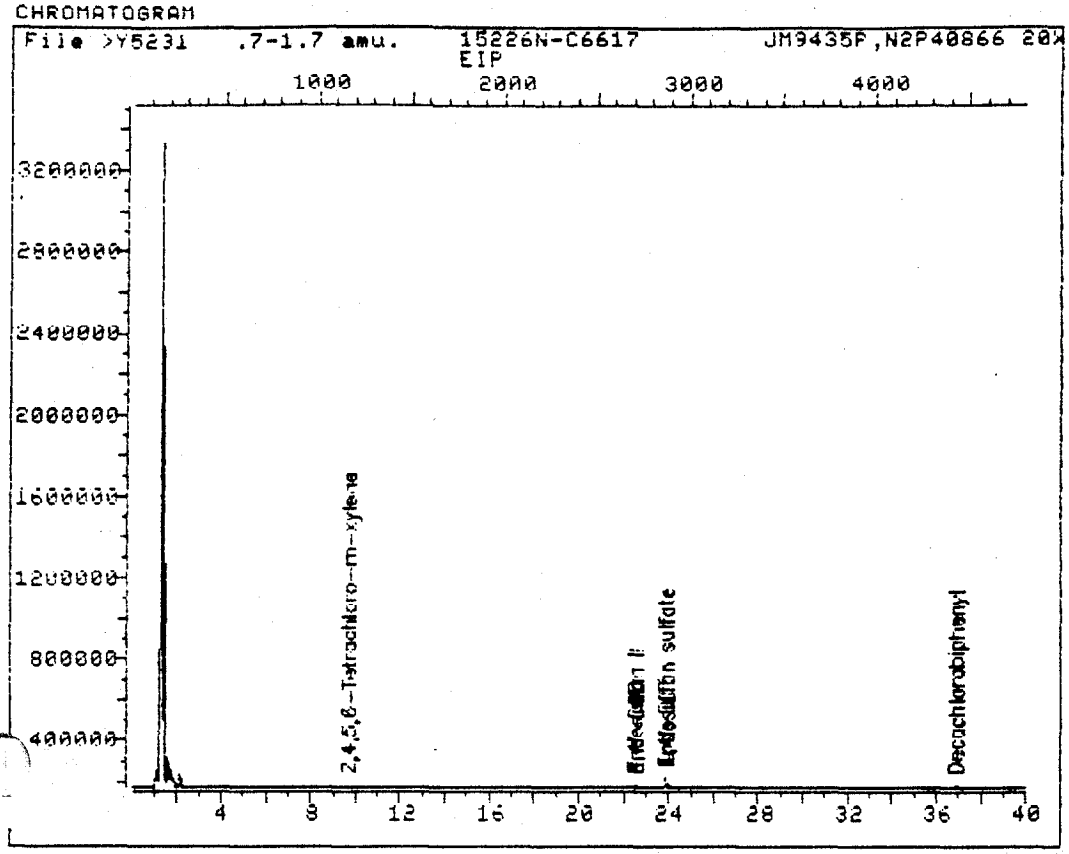
ID File: IZPMRG::D5
Title: PESTICIDES DB-608 BY GC B2 (FRONT) MIX A NEESA 1.00UL
Last Calibration: 940702 09:21 Last Qcal Time: 940702 01:32

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#2,4,5,6-Tetrachloro-m-xylene	8.37	525	80543	.00487	ug/ml	100
~~8)~~	~~#4,4'-DDD~~	22.61	2234	176895	~~.0195~~	~~ug/ml~~	~~100~~
9)	#4,4'-DDT	23.77	2373	420545	.0453	ug/ml	100
11)	#Decachlorobiphenyl	36.11	3854	207979	.00878	ug/ml	100
~~28)~~	~~#4,4'-DDE~~	20.33	1961	29696	~~.00237~~	~~ug/ml~~	~~100~~

Compound uses ESTD

qk
7/6/94

CHROMATOGRAM



C6618

Data File: >Y5231::D5 Quant Output File: ^Y5231::D5
Name: 15226N-C6617 Instrument ID: Y
Misc: JM9435P,N2P40866 20X

Id File: IYPMRG::D5
Title: PESTICIDES DB-5 BY GC B2 (REAR) MIX A NEESA 1.00UL
Last Calibration: 940702 11:25 Last Qcal Time: 940702 02:18

Operator ID: USER2
Quant Time : 940705 15:31
Injected at: 940705 14:49

QUANT REPORT Page 1

Operator ID: USER2 Quant Rev: 7 Quant Time: 940705 15:31
Output File: ^Y5231::D5 Injected at: 940705 14:49
Data File: >Y5231::D5 Dilution Factor: 1.00000
Name: 15226N-C6617 Instrument ID: Y
Misc: JM9435P,N2P40866 20X

ID File: IYPMRG::D5
Title: PESTICIDES DB-5 BY GC B2 (REAR) MIX A NEESA 1.00UL
Last Calibration: 940702 11:25 Last Qcal Time: 940702 02:18

	Compound	R.T.	Scan#	Area	Conc	Units	q	
1)	#2,4,5,6-Tetrachloro-m-xylene	9.71	1165	36256	.00535	ug/ml	100	✓
~~8)~~	~~#4,4'-DDD~~	22.53	2703	71936	~~.0172~~	~~ug/ml~~	~~100~~	
9)	#4,4'-DDT	23.90	2868	213728	.0440	ug/ml	100	~
11)	#Decachlorobiphenyl	36.88	4425	96552	.00898	ug/ml	100	✓
~~29)~~	~~#Endosulfan II~~	22.53	2703	71936	~~.0111~~	~~ug/ml~~	~~100~~	
~~31)~~	~~#Endosulfan sulfate~~	23.90	2868	213728	~~.0362~~	~~ug/ml~~	~~100~~	

Compound uses ESTD

QK
7/6/94

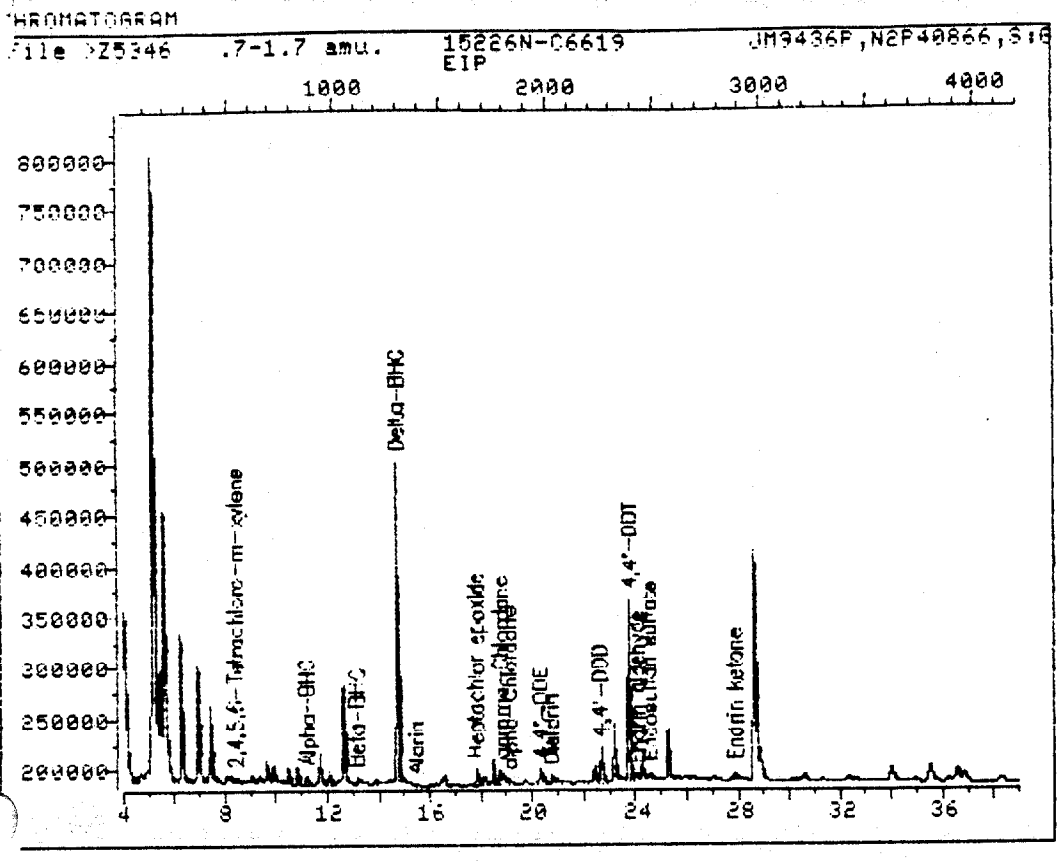
1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 0462

Lab Name: ASC	Contract: NEESA	C6619	
Lab Code: —	Case No.: —	SAS No.: —	SDG No.: N/A C6617
Matrix: (soil/water) Soil		Lab Sample ID: JM9436	
Sample wt/vol: 30.2 (g/mL) g		Lab File ID: 1Z5346	
% Moisture: 35.7 decanted: (Y/N) N		Date Received: 6/23/94	
Extraction: (SepF/Cont/Sonc) SOX		Date Extracted: 6/26/94	
Concentrated Extract Volume: 5000 (uL)		Date Analyzed: 7/1/94	
Injection Volume: 1.0 (uL)		Dilution Factor: 500	
GPC Cleanup: (Y/N) N	pH: NA	Sulfur Cleanup: (Y/N) N	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	Q
319-84-6	alpha-BHC	290	U
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin	2580	
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT	21000	B
72-43-5	Methoxychlor	12900	U
53494-70-5	Endrin ketone	2580	
7421-36-3	Endrin aldehyde		
5103-71-9	alpha-Chlordane	1290	
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene	129000	
12674-11-2	Aroclor-1016	25800	
11104-28-2	Aroclor-1221	5750D	
11141-16-5	Aroclor-1232	25800	
53469-21-9	Aroclor-1242		
12672-29-6	Aroclor-1248		
11097-69-1	Aroclor-1254		
11096-82-5	Aroclor-1260		



C6619

Data File: >Z5346::D5 Quant Output File: ^Z5346::D5
Name: 15226N-C6619 Instrument ID: Z
Misc: JM9436P,N2P40866,S:G5,19.41,10:500,

Id File: IZPMRG::D5
Title: PESTICIDES DB-608 BY GC B2 (FRONT) MIX A NEESA 1.00UL
Last Calibration: 940627 10:22 Last Qcal Time: 940624 22:59

Operator ID: USER2
Quant Time : 940701 03:09
Injected at: 940701 02:28

QUANT REPORT Page 1

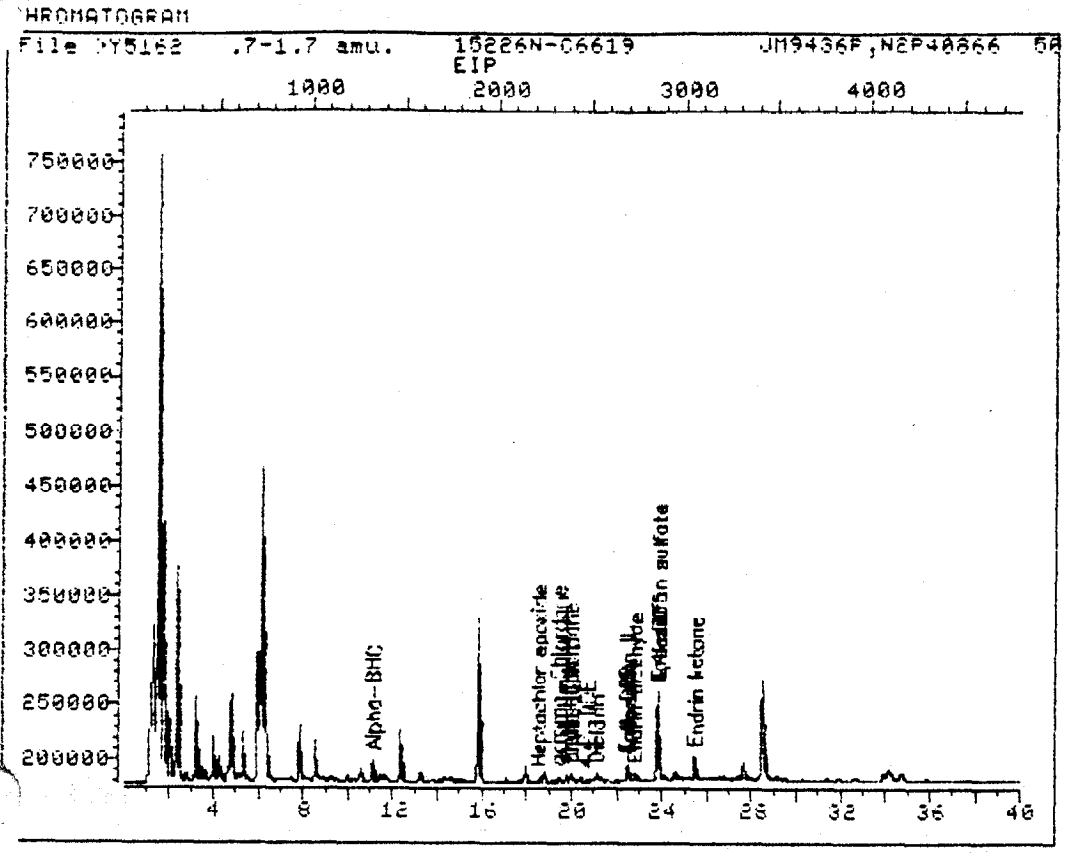
Operator ID: USER2 Quant Rev: 7 Quant Time: 940701 03:09
Output File: ^Z5346::D5 Injected at: 940701 02:28
Data File: >Z5346::D5 Dilution Factor: 1.00000
Name: 15226N-C6619 Instrument ID: Z
Misc: JM9436P,N2P40866,S:G5,19.41,10:500,

ID File: IZPMRG::D5
Title: PESTICIDES DB-608 BY GC B2 (FRONT) MIX A NEESA 1.00UL
Last Calibration: 940627 10:22 Last Qcal Time: 940624 22:59

	Compound	R.T.	Scan#	Area	Conc	Units	q
~~1)~~	#2,4,5,6-Tetrachloro-m-xylene	8.39	528	22592	~~.00126~~	~~ug/ml~~	100
~~2)~~	#Alpha-BHC	11.19	864	51583	~~.00366~~	~~ug/ml~~	100
~~6)~~	#Dieldrin	20.72	2008	69503	~~.00455~~	~~ug/ml~~	100
~~8)~~	#4,4'-DDD	22.61	2234	210271	~~.0210~~	~~ug/ml~~	100
9)	#4,4'-DDT	23.78	2374	810531	.0814	ug/ml	100
~~22)~~	#Beta-BHC	13.13	1097	35104	~~.00351~~	~~ug/ml~~	100
~~23)~~	#Delta-BHC	14.72	1287	1516649	~~.138~~	~~ug/ml~~	100
~~1)~~	#Aldrin	15.47	1372	29695	~~.00197~~	~~ug/ml~~	100
~~5)~~	#Heptachlor epoxide	17.80	1657	110335	~~.00580~~	~~ug/ml~~	100
~~6L~~	#gamma-Chlordane	18.74	1770	79519	~~.00409~~	~~ug/ml~~	100
~~27)~~	#alpha-Chlordane	19.10	1813	31839	~~.00160~~	~~ug/ml~~	100
~~28)~~	#4,4'-DDE	20.30	1957	80883	~~.00597~~	~~ug/ml~~	100
~~30)~~	#Endrin aldehyde	24.07	2409	29184	~~.00259~~	~~ug/ml~~	100
~~31)~~	#Endosulfan sulfate	24.55	2467	43032	~~.00359~~	~~ug/ml~~	100
~~32)~~	#Endrin ketone	27.88	2866	52544	~~.00390~~	~~ug/ml~~	100

Compound uses ESTD

QC
7/6/94



~~C6620~~ 21
C6619

Data File: >Y5162::D5 Quant Output File: ^Y5162::D5
Name: 15226N-C6619 Instrument ID: Y
Misc: JM9436P,N2P40866 500X

Id File: IYPMRG::D5
Title: PESTICIDES DB-5 BY GC B2 (REAR) MIX A NEESA 1.00UL
Last Calibration: 940627 10:17 Last Qcal Time: 940625 00:30

Operator ID: USER2
Quant Time : 940701 03:56
Injected at: 940701 03:13

QUANT REPORT Page 1

Operator ID: USER2 Quant Rev: 7 Quant Time: 940701 03:56
Output File: ^Y5162::D5 Injected at: 940701 03:13
Data File: >Y5162::D5 Dilution Factor: 1.00000
Name: 15226N-C6619 Instrument ID: Y
Misc: JM9436P,N2P40866 500X

ID File: IYPMRG::D5
Title: PESTICIDES DB-5 BY GC B2 (REAR) MIX A NEESA 1.00UL
Last Calibration: 940627 10:17 Last Qcal Time: 940625 00:30

	Compound	R.T.	Scan#	Area	Conc	Units	q
2)	#Alpha-BHC	11.12	1334	114048	.0280	ug/ml	100
5)	#Endosulfan I	19.93	2392	31992	.00466	ug/ml	100
6)	#Dieldrin	21.12	2534	32954	.00491	ug/ml	100
8)	#4,4'-DDD	22.48	2698	76927	.0181	ug/ml	100
9)	#4,4'-DDT	23.85	2862	484365	.0984	ug/ml	100 ✓
25)	#Heptachlor epoxide	18.54	2225	25408	.00320	ug/ml	100
26)	#gamma-Chlordane	19.42	2330	36160	.00430	ug/ml	100
27)	#alpha-Chlordane	19.93	2392	31992	.00370	ug/ml	100
3)	#4,4'-DDE	20.68	2482	23487	.00391	ug/ml	100
7)	#Endosulfan II	22.48	2698	76927	.0115	ug/ml	100
30)	#Endrin aldehyde	22.81	2737	40160	.00754	ug/ml	100
31)	#Endosulfan sulfate	23.85	2862	484365	.0919	ug/ml	100
32)	#Endrin ketone	25.47	3057	146951	.0222	ug/ml	100

Compound uses ESTD

AL
9/6/94

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 0467

C66620

Lab Name: ASC Contract: NEESA

Lab Code: — Case No.: — SAS No.: — SDG No.: NA C66170A

Matrix: (soil/water) Soil Lab Sample ID: JM9437

Sample wt/vol: 30.0 (g/mL) g Lab File ID: Z5413

% Moisture: 60.7 decanted: (Y/N) N Date Received: 6/23/94

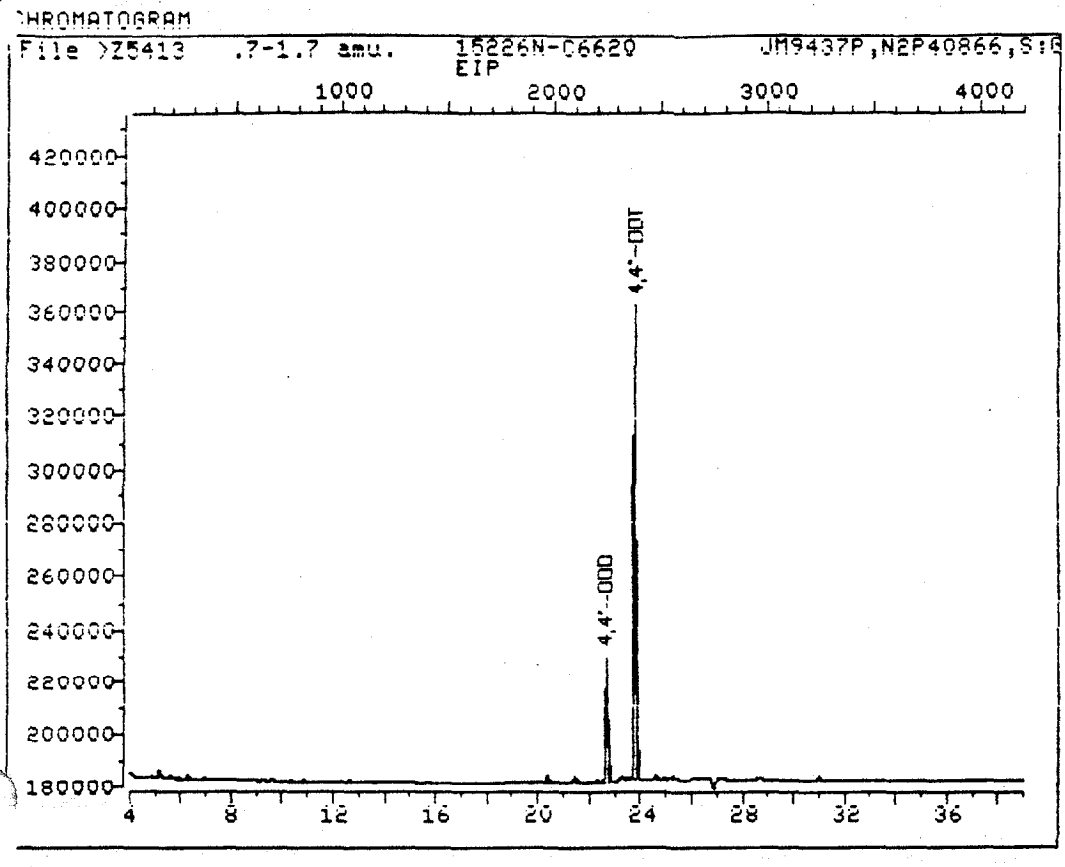
Extraction: (SepF/Cont/Sonc) SON Date Extracted: ~~7/2~~ 6/24/94 AC 7/7/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 7/5/94

Injection Volume: 1.0 (uL) Dilution Factor: 50000

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	106000	U
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin	212000	
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT	1940000	B
72-43-5	Methoxychlor	1060000	U
53494-70-5	Endrin ketone	212000	
7421-36-3	Endrin aldehyde		
5103-71-9	alpha-Chlordane	106000	
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene	10600000	
12674-11-2	Aroclor-1016	2120000	
11104-28-2	Aroclor-1221	4240000	
11141-16-5	Aroclor-1232	2120000	
53469-21-9	Aroclor-1242		
12672-29-6	Aroclor-1248		
11097-69-1	Aroclor-1254		
11096-82-5	Aroclor-1260		



C6620

Data File: >Z5413::D5 Quant Output File: ^Z5413::D5
Name: 15226N-C6620 Instrument ID: Z
Misc: JM9437P,N2P40866,S:G5,11.79,5:50000

Id File: IZPMRG::D5
Title: PESTICIDES DB-608 BY GC B2 (FRONT) MIX A NEESA 1.00UL
Last Calibration: 940702 09:21 Last Qcal Time: 940702 01:32

Operator ID: USER2
Quant Time : 940705 15:30
Injected at: 940705 14:49

QUANT REPORT Page 1

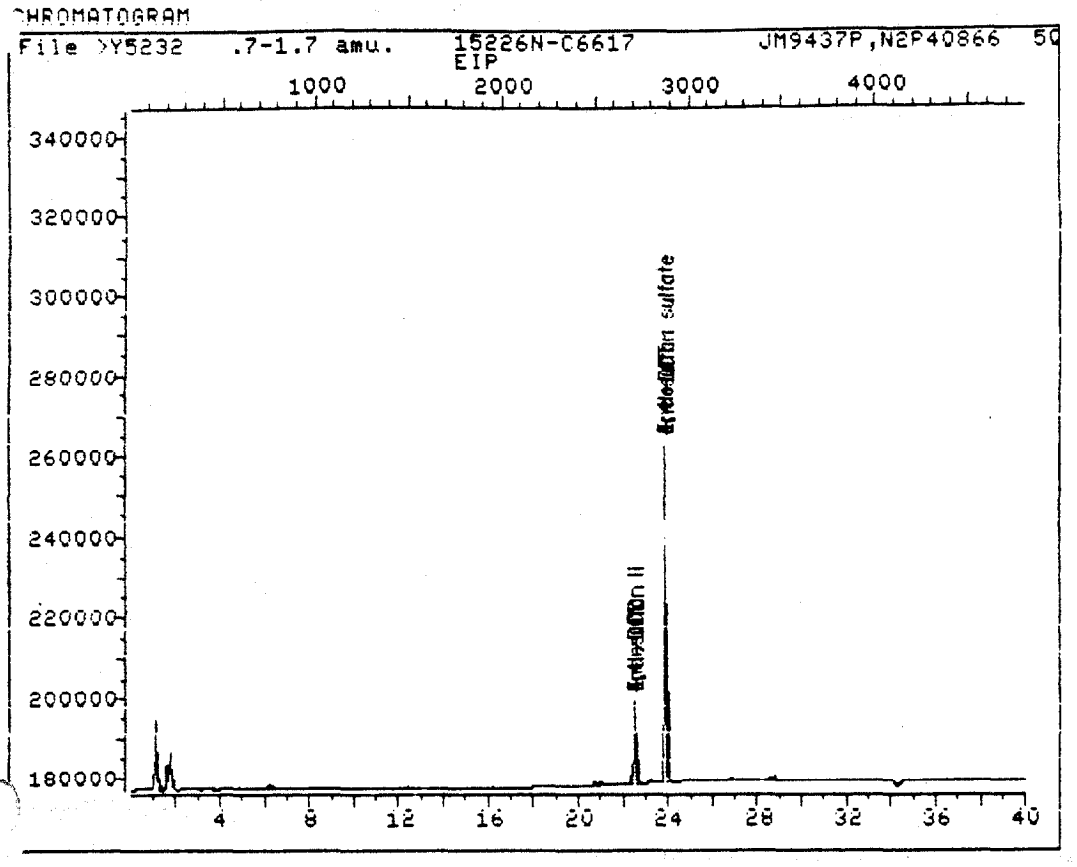
Operator ID: USER2 Quant Rev: 7 Quant Time: 940705 15:30
Output File: ^Z5413::D5 Injected at: 940705 14:49
Data File: >Z5413::D5 Dilution Factor: 1.00000
Name: 15226N-C6620 Instrument ID: Z
Misc: JM9437P,N2P40866,S:G5,11.79,5:50000

ID File: IZPMRG::D5
Title: PESTICIDES DB-608 BY GC B2 (FRONT) MIX A NEESA 1.00UL
Last Calibration: 940702 09:21 Last Qcal Time: 940702 01:32

	Compound	R.T.	Scan#	Area	Conc	Units	q
~~8)~~	#4,4'-DDD	22.60	2233	257472	~~.0283~~	~~ug/ml~~	100
9)	#4,4'-DDT	23.77	2373	847528	.0913	ug/ml	100

Compound uses ESTD

ak
7/6/94



C6620

Data File: >Y5232::D5 Quant Output File: ^Y5232::D5
Name: 15226N-~~C6617~~ C6620 Instrument ID: Y
Misc: JM9437P,N2P40866 50000X

Id File: IYPMRG::D5
Title: PESTICIDES DB-5 BY GC B2 (REAR) MIX A NEESA 1.00UL
Last Calibration: 940702 11:25 Last Qcal Time: 940702 02:18

Operator ID: USER2
Quant Time : 940705 16:54
Injected at: 940705 16:12

QUANT REPORT Page 1

Operator ID: USER2 Quant Rev: 7 Quant Time: 940705 16:54
Output File: ~Y5232::D5 Injected at: 940705 16:12
Data File: >Y5232::D5 Dilution Factor: 1.00000
Name: 15226N-~~C6617~~ C6620 NT Instrument ID: Y
Misc: JM9437P,N2P40866 50000X

ID File: IYPMRG::D5
Title: PESTICIDES DB-5 BY GC B2 (REAR) MIX A NEESA 1.00UL
Last Calibration: 940702 11:25 Last Qcal Time: 940702 02:18

	Compound	R.T.	Scan#	Area	Conc	Units	q
~~8~~	#4,4'-DDD	22.53	2703	108479	.~~0260~~	ug/ml	~~100~~
9)	#4,4'-DDT	23.89	2867	421089	.0866	ug/ml	100
~~29~~	#Endosulfan II	22.53	2703	108479	.~~0167~~	ug/ml	~~100~~
~~31~~	#Endosulfan sulfate	23.89	2867	421089	.~~0713~~	ug/ml	~~100~~

Compound uses ESTD

AK
7/6/94

0472

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. Clel21

Lab Name: ASC Contract: NEESA

Lab Code: — Case No.: — SAS No.: — SDG No.: Clel17

Matrix: (soil/water) Organic Lab Sample ID: JM9438

Sample wt/vol: 1.02 (g/mL) g Lab File ID: Z5416

% Moisture: NA decanted: (Y/N) N Date Received: 6/23/94

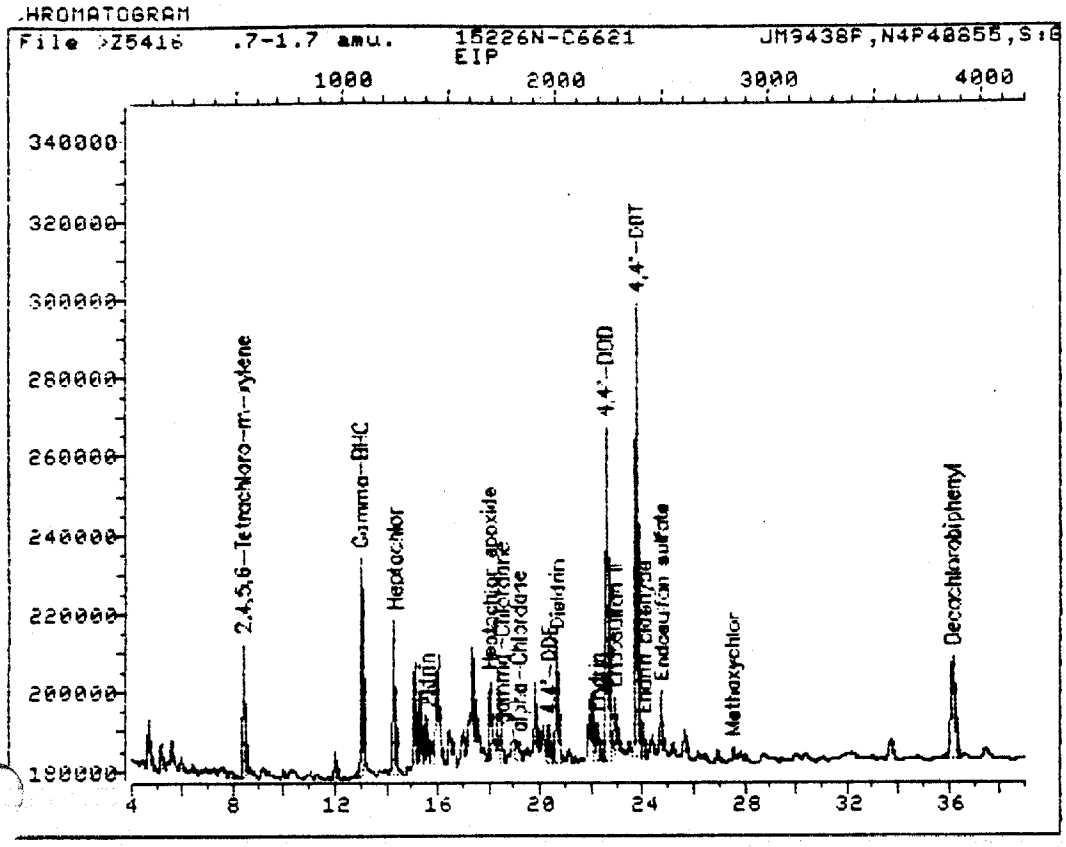
Extraction: (SepF/Cont/Sonc) NA Date Extracted: 6/30/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 7/5/94

Injection Volume: 1.0 (uL) Dilution Factor: 25

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	613	U
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor	~~1480~~ 613	U
309-00-2	Aldrin	708	
1024-57-3	Heptachlor epoxide	931	
959-98-8	Endosulfan I	613	U
60-57-1	Dieldrin	1230	
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT	7520	B
72-43-5	Methoxychlor	6130	U
53494-70-5	Endrin ketone	1230	
7421-36-3	Endrin aldehyde		
5103-71-9	alpha-Chlordane	613	
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene	61300	
12674-11-2	Aroclor-1016	12300	
11104-28-2	Aroclor-1221	24500	
11141-16-5	Aroclor-1232	12300	
53469-21-9	Aroclor-1242		
12672-29-6	Aroclor-1248		
11097-69-1	Aroclor-1254		
11096-82-5	Aroclor-1260		



C6621

Data File: >Z5416::D5 Quant Output File: ^Z5416::D5
Name: 15226N-C6621 Instrument ID: Z
Misc: JM9438P,N4P40855,S:G5,1.02,5:25,

Id File: IZPMRG::D5
Title: PESTICIDES DB-608 BY GC B2 (FRONT) MIX A NEESA 1.00UL
Last Calibration: 940702 09:21 Last Qcal Time: 940702 01:32

Operator ID: USER2
Quant Time : 940705 18:24
Injected at: 940705 17:43

QUANT REPORT Page 1

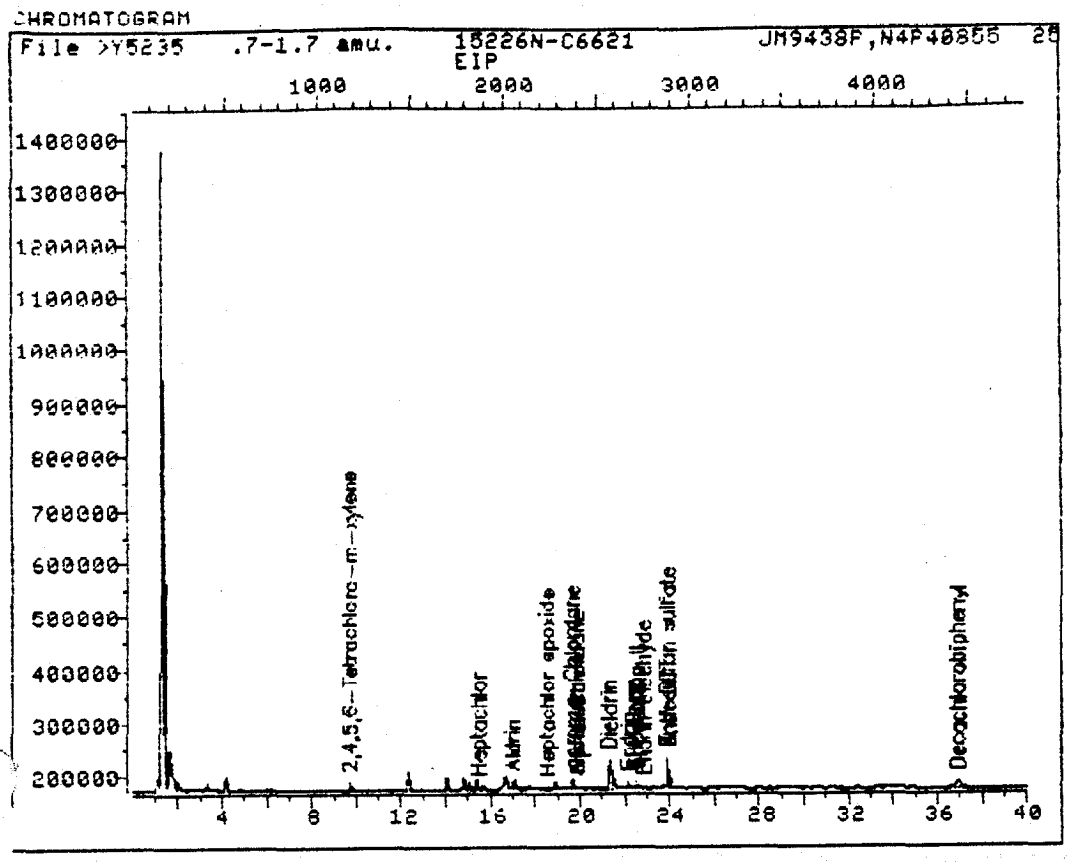
Operator ID: USER2 Quant Rev: 7 Quant Time: 940705 18:24
Output File: ^Z5416::D5 Injected at: 940705 17:43
Data File: >Z5416::D5 Dilution Factor: 1.00000
Name: 15226N-C6621 Instrument ID: Z
Misc: JM9438P,N4P40855,S:G5,1.02,5:25,

ID File: IZPMRG::D5
Title: PESTICIDES DB-608 BY GC B2 (FRONT) MIX A NEESA 1.00UL
Last Calibration: 940702 09:21 Last Qcal Time: 940702 01:32

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#2,4,5,6-Tetrachloro-m-xylene	8.37	525	187327	.0113	ug/ml	100
3)	#Gamma-BHC	12.98	1079	290015	.0212	ug/ml	100
4)	#Heptachlor	14.29	1236	220800	.0121	ug/ml	100
6)	#Dieldrin	20.63	1997	200132	.0143	ug/ml	100
7)	#Endrin	22.20	2185	70816	.00632	ug/ml	100
8)	#4,4'-DDD	22.53	2224	636165	.0200	ug/ml	100
9)	#4,4'-DDT	23.77	2373	570123	.0614	ug/ml	100
10)	#Methoxychlor	27.50	2821	24735	.00367	ug/ml	100
)	#Decachlorobiphenyl	36.10	3853	304299	.0128	ug/ml	100
24)	#Aldrin	15.57	1389	81056	.00578	ug/ml	100
25)	#Heptachlor epoxide	18.01	1682	135584	.00760	ug/ml	100
26)	#gamma-Chlordane	18.47	1738	45344	.00248	ug/ml	100
27)	#alpha-Chlordane	19.14	1818	44128	.00236	ug/ml	100
28)	#4,4'-DDE	20.33	1961	91424	.00418	ug/ml	100
29)	#Endosulfan II	22.88	2267	95522	.00665	ug/ml	100
30)	#Endrin aldehyde	24.02	2403	53568	.00508	ug/ml	100
31)	#Endosulfan sulfate	24.70	2485	82688	.00707	ug/ml	100

Compound uses ESTD

ai
7/6/94



Data File: >Y5235::D5 Quant Output File: ^Y5235::D5
Name: 15226N-C6621 Instrument ID: Y
Misc: JM9438P,N4P40855 25X

Id File: IYPMRG::D5
Title: PESTICIDES DB-5 BY GC B2 (REAR) MIX A NEESA 1.00UL
Last Calibration: 940702 11:25 Last Qcal Time: 940702 02:18

Operator ID: USER2
Quant Time : 940705 19:11
Injected at: 940705 18:29

QUANT REPORT Page 1

Operator ID: USER2 Quant Rev: 7 Quant Time: 940705 19:11
Output File: ^Y5235::D5 Injected at: 940705 18:29
Data File: >Y5235::D5 Dilution Factor: 1.00000
Name: 15226N-C6621 Instrument ID: Y
Misc: JM9438P,N4P40855 25X

ID File: IYPMRG::D5
Title: PESTICIDES DB-5 BY GC B2 (REAR) MIX A NEESA 1.00UL
Last Calibration: 940702 11:25 Last Qcal Time: 940702 02:18

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#2,4,5,6-Tetrachloro-m-xylene	9.71	1165	57600	.00849	ug/ml	100
4)	#Heptachlor	15.44	1853	22208	.00282	ug/ml	100
5)	#Endosulfan I	19.90	2388	23552	.00359	ug/ml	100
6)	#Dieldrin	21.29	2555	451169	.0705	ug/ml	100
7)	#Endrin	22.14	2657	67615	.0123	ug/ml	100
8)	#4,4'-DDD	22.53	2703	65984	.0158	ug/ml	100
9)	#4,4'-DDT	23.90	2868	275584	.0567	ug/ml	100
10)	#Decachlorobiphenyl	36.88	4425	155792	.0145	ug/ml	100
24)	#Aldrin	16.99	2039	90623	.0146	ug/ml	100
25)	#Heptachlor epoxide	18.52	2222	30464	.00398	ug/ml	100
26)	#gamma-Chlordane	19.63	2356	76960	.00956	ug/ml	100
27)	#alpha-Chlordane	19.90	2388	23552	.00286	ug/ml	100
28)	#Endosulfan II	22.53	2703	65984	.0102	ug/ml	100
30)	#Endrin aldehyde	22.85	2742	24768	.00460	ug/ml	100
31)	#Endosulfan sulfate	23.90	2868	275584	.0467	ug/ml	100

Compound uses ESTD

ac
7/6/94

0477

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. C66622

Lab Name: ASC Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: ~~N/A~~ C6617

Matrix: (soil/water) Water Lab Sample ID: JM943?P

Sample wt/vol: 5 (g/mL) mL Lab File ID: 12535O

% Moisture: N/A decanted: (Y/N) ___ Date Received: 6/23/94

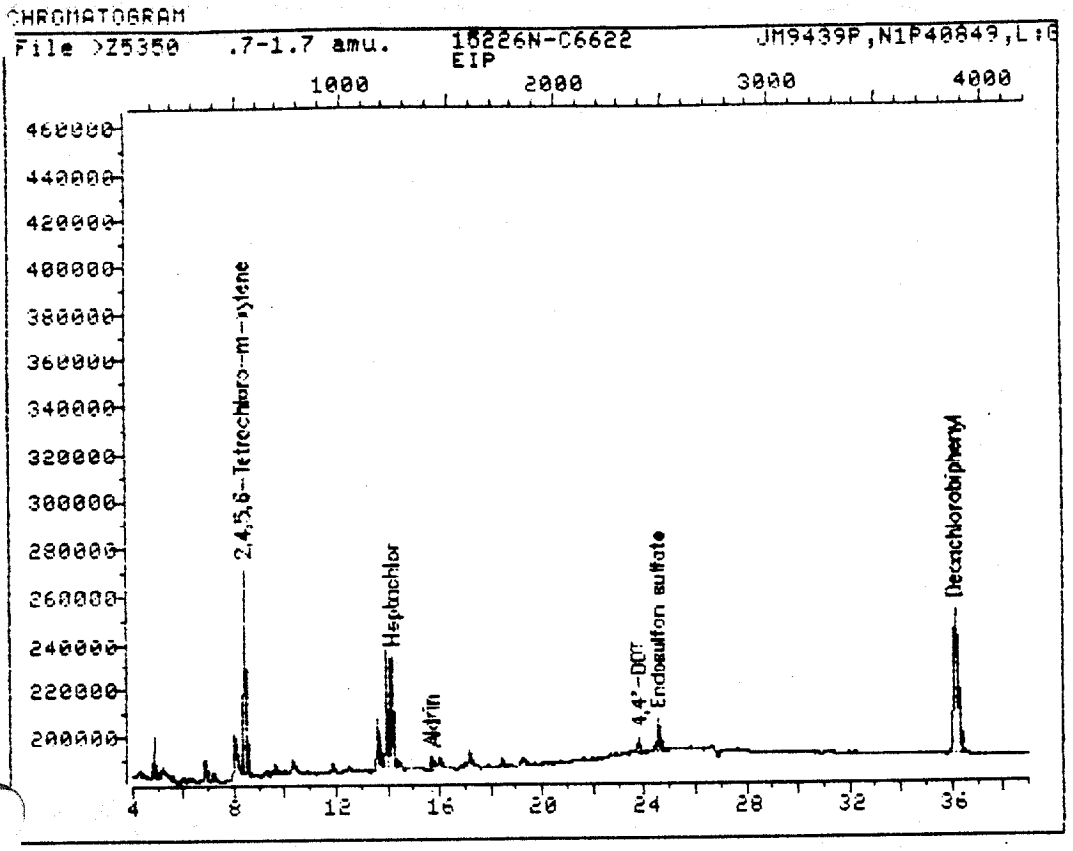
Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 6/27/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/1/94

Injection Volume: 1.0 (uL) Dilution Factor: 5.0

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	5.00	U
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin	10.0	
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT	3.18	BJ
72-43-5	Methoxychlor	50.0	U
53494-70-5	Endrin ketone	10.0	
7421-36-3	Endrin aldehyde		
5103-71-9	alpha-Chlordane	5.00	
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene	500	
12674-11-2	Aroclor-1016	.100	
11104-28-2	Aroclor-1221	.200	
11141-16-5	Aroclor-1232	.100	
53469-21-9	Aroclor-1242		
12672-29-6	Aroclor-1248		
11097-69-1	Aroclor-1254		
11096-82-5	Aroclor-1260		



C6622

Data File: >Z5350::D5 Quant Output File: ^Z5350::D5
Name: 15226N-C6622 Instrument ID: Z
Misc: JM9439P,N1P40849,L:G5,5,1:5,

Id File: IZPMRG::D5
Title: PESTICIDES DB-608 BY GC B2 (FRONT) MIX A NEESA 1.00UL
Last Calibration: 940627 10:22 Last Qcal Time: 940624 22:59

Operator ID: USER2
Quant Time : 940701 06:11
Injected at: 940701 05:30

QUANT REPORT Page 1

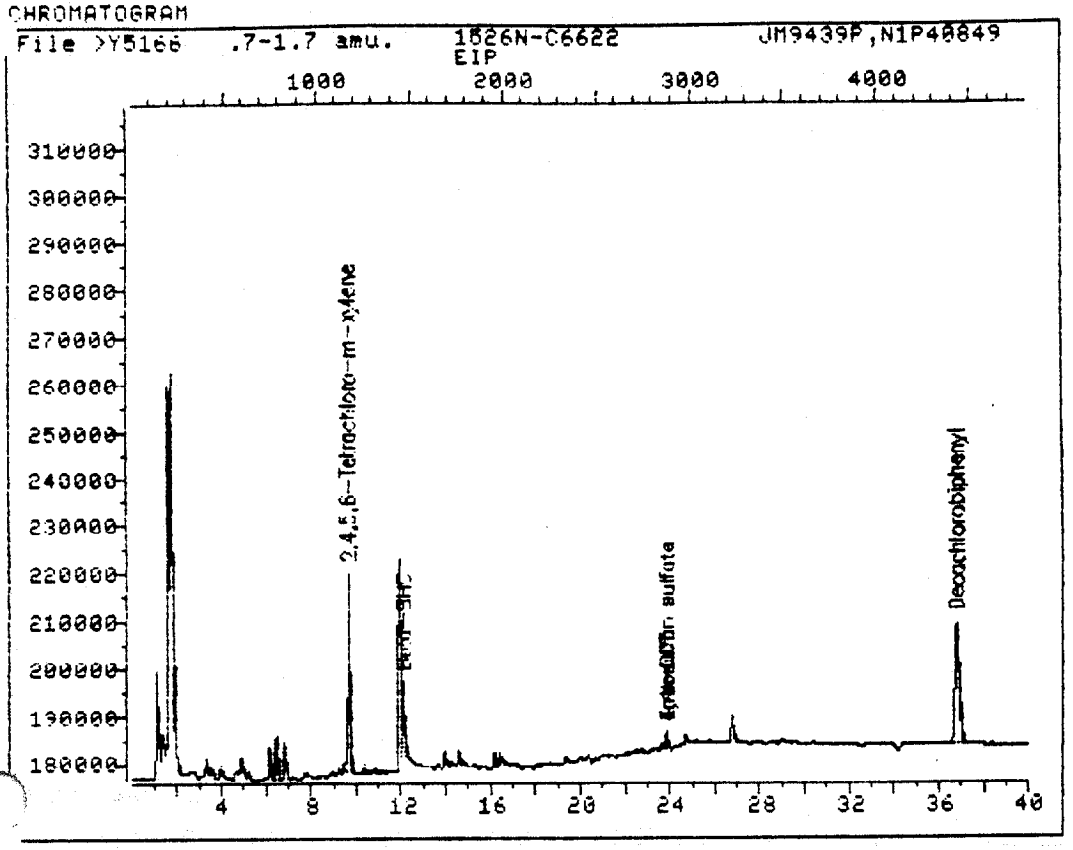
Operator ID: USER2 Quant Rev: 7 Quant Time: 940701 06:11
Output File: ^Z5350::D5 Injected at: 940701 05:30
Data File: >Z5350::D5 Dilution Factor: 1.00000
Name: 15226N-C6622 Instrument ID: Z
Misc: JM9439P,N1P40849,L:G5,5,1:5,

ID File: IZPMRG::D5
Title: PESTICIDES DB-608 BY GC B2 (FRONT) MIX A NEESA 1.00UL
Last Calibration: 940627 10:22 Last Qcal Time: 940624 22:59

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#2,4,5,6-Tetrachloro-m-xylene	8.37	525	407968	.0227	ug/ml	100 ✓
~~4)~~	#Heptachlor	14.17	1221	274879	~~.0136 ug/ml~~		100
9)	#4,4'-DDT	23.78	2374	31648	.00318	ug/ml	100 ✓
11)	#Decachlorobiphenyl	36.12	3855	751189	.0290	ug/ml	100 ✓
~~24)~~	#Aldrin	15.67	1401	30463	~~.00202 ug/ml~~		100
~~31)~~	#Endosulfan sulfate	24.55	2467	76319	~~.0037~~ ug/ml		100

Compound uses ESTD

QC
7/5/94



C6622

Data File: >Y5166::D5 Quant Output File: ^Y5166::D5
Name: 1526N-C6622 Instrument ID: Y
Misc: JM9439P,N1P40849

Id File: IYPMRG::D5
Title: PESTICIDES DB-5 BY GC B2 (REAR) MIX A NEESA 1.00UL
Last Calibration: 940627 10:17 Last Qcal Time: 940625 00:30

Operator ID: USER2
Quant Time : 940701 06:58
Injected at: 940701 06:16

QUANT REPORT Page 1

Operator ID: USER2 Quant Rev: 7 Quant Time: 940701 06:58
Output File: ^Y5166::D5 Injected at: 940701 06:16
Data File: >Y5166::D5 Dilution Factor: 1.00000
Name: 1526N-C6622 Instrument ID: Y
Misc: 1M9439P,N1P40849

ID File: IYPMRG::D5
Title: PESTICIDES DB-5 BY GC B2 (REAR) MIX A NEESA 1.00UL
Last Calibration: 940627 10:17 Last Qcal Time: 940625 00:30

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#2,4,5,6-Tetrachloro-m-xylene	9.67	1160	194239	~~.0272~~	~~ug/ml~~	100
9)	#4,4'-DDT	23.86	2863	23359	~~.00475~~	~~ug/ml~~	100
11)	#Decachlorobiphenyl	36.78	4413	327725	~~.0300~~	~~ug/ml~~	100
22)	#Beta-BHC	12.12	1454	100192	.0230	ug/ml	100
~~31)~~	#Endosulfan sulfate	23.86	2863	23359	.00443	ug/ml	100

Compound uses ESTD

ak
7/5/94

2F

SOIL PESTICIDE SURROGATE RECOVERY

0482

Lab Name: ASC Contract: NEESA

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: C6617

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	PBLK	55.6*	63.0	93.0	96.7			1
02	PSPK	47.1*	52.0*	93.0	98.7			2
03	C6617	D	D	D	D			0
04	C6618	↓	↓	↓	↓			0
05	C6619							0
06	C6620							0
07								
08								
09								
10								
11								
12								
13								
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17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DCB = Decachlorobiphenyl	(60-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

2E

WATER PESTICIDE SURROGATE RECOVERY

0483

Lab Name: ASC Contract: Nest

Lab Code: — Case No.: — SAS No.: — SDG No.: CC617

GC Column(1): DB608 ID: .53 (mm) GC Column(2): DB5 ID: .53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK03	97.0	101	92.2	97.8			0
02	PSPK03	94.9	101	97.0	102			0
03	CC6621	D	D	D	D			0
04								
05								
06								
07								
08								
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25								
26								
27								
28								
29								
30								

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DCB = Decachlorobiphenyl	(60-150)

\# Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: ASC Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: ~~N/A~~ C6617

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	63.4		65.6		89.5		95.3				0
02	PSPK01	57.4	*	60.7		84.2		89.5				1
03	IWU001MS	55.6	*	56.7	*	86.3		90.6				2
04	IWU001MSD	61.6		65.2		93.6		96.5				0
05	IWU001	63.2		63.4		91.5		91.8				0
06	C6623	58.7	*	60.7		84.8		87.7				1
07												
08												
09												
10												
11												
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30												

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DCB = Decachlorobiphenyl	(60-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ASC Contract: NUESA

Lab Code: ___ Case No.: ___ SAS No.: ___ SDG No.: ~~AHA~~ TT C6617

Matrix Spike - EPA Sample No.: C6617

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
gamma-BHC (Lindane)	See Comment				46-127
Heptachlor					35-130
Aldrin					34-132
Dieldrin					31-134
Endrin					42-139
4,4'-DDT					23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	See Comment				50	46-127
Heptachlor					31	35-130
Aldrin					43	34-132
Dieldrin					38	31-134
Endrin					45	42-139
4,4'-DDT					50	23-134

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

* Values outside of QC limits

RPD: ____ out of ____ outside limits
Spike Recovery: ____ out of ____ outside limits

COMMENTS: As per level C, due to the dilution of the spiked sample, no matrix spike and duplicate data are required.

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ASC Contract: NEESA

Lab Code: — Case No.: — SAS No.: — SDG No.: CLC017

Matrix Spike - EPA Sample No.: CLC21

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
gamma-BHC (Lindane)	See Comment				46-127
Heptachlor					35-130
Aldrin					34-132
Dieldrin					31-134
Endrin					42-139
4,4'-DDT					23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	See Comment				50	46-127
Heptachlor					31	35-130
Aldrin					43	34-132
Dieldrin					38	31-134
Endrin					45	42-139
4,4'-DDT					50	23-134

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

* Values outside of QC limits

RPD: _____ out of _____ outside limits
Spike Recovery: _____ out of _____ outside limits

COMMENTS: As per level C, due to the dilution of the spiked sample, matrix spike and duplicate results are not required.

3E

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ASC Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: ~~N/A~~ Cdc17

Matrix Spike - EPA Sample No.: WW001

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	L F
gamma-BHC (Lindane)	7.18	ND	5.15	71.7	5
Heptachlor	5.63		3.25	57.7	4
Aldrin	6.81		3.19	46.8	4
Dieldrin	12.6		9.35	74.2	5
Endrin	13.4		10.1	75.4	5
4,4'-DDT	10.2	.224	11.2	108	3

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	7.18	6.00	83.6	15.2	15	5 -
Heptachlor	5.63	3.82	67.9	16.1	20	4 -
Aldrin	6.81	4.09	60.1	29.6	22	3 -
Dieldrin	12.6	10.6	84.1	12.5	18	5 -
Endrin	13.4	11.5	85.8	13.0	21	5 -
4,4'-DDT	10.2	12.3	121	9.96	27	3 -

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

* Values outside of QC limits

RPD: 1 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS: _____

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO: PBLK02

Lab Name: ASC Contract: NCSA

Lab Code: — Case No.: — SAS No.: — SDG No.: DA NA C4617

Lab Sample ID: N2P4D866P Lab File ID: ^Z5342

Matrix: (soil/water) Soil Extraction: (SepF/Cont/Sonc) SDC

Sulfur Cleanup: (Y/N) N Date Extracted: 6/26/94

Date Analyzed (1): 7/1/94 Date Analyzed (2): 7/1/94

Time Analyzed (1): 2326 Time Analyzed (2): 0011

Instrument ID (1): HPB2F Instrument ID (2): HPB2R

GC Column (1): DB608 ID: .53 (mm) GC Column (2): DB-5 ID: .53 (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	PSPK03	N2P108666PS	7/01/94	7/01/94
02	C4617	Jm9434	7/05/94	7/05/94
03	C4618	Jm9435	"	"
04	C4619	Jm9436	7/01/94	7/01/94
05	C4620	Jm9437	7/05/94	7/05/94
06	~~C4621~~	~~Jm 0010~~	DA 7-7-94	
07				
08				
09				
10				
11				
12				
13				
14				
15				
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18				
19				
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23				
24				
25				
26				

COMMENTS:

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO: PBLK03

Lab Name: ASC Contract: NeESA

Lab Code: — Case No.: — SAS No.: — SDG No.: Clu17

Lab Sample ID: N4P40855 Lab File ID: ^Z5414

Matrix: (soil/water) Organic Extraction: (SepF/Cont/Sonc) NA

Sulfur Cleanup: (Y/N) N Date Extracted: 6/30/94

Date Analyzed (1): 7/5/94 Date Analyzed (2): 7/5/94

Time Analyzed (1): 1612 Time Analyzed (2): 1657

Instrument ID (1): HP32F Instrument ID (2): HP32R

GC Column (1): DB608 ID: .53 (mm) GC Column (2): DB5 ID: .53 (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	PBLK03	N4P40855PS	7/5/94	7/5/94
02	Clu121	JMC9438	↓	↓
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
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22				
23				
24				
25				
26				

COMMENTS:

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO: PBLK01

Lab Name: ASC Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: ~~N/A~~ C6617

Lab Sample ID: NIP40849P Lab File ID: 12 5328

Matrix: (soil/water) Water Extraction: (SepF/Cont/Sonc) SepF

Sulfur Cleanup: (Y/N) N Date Extracted: 6/27/94

Date Analyzed (1): 6/30/94 Date Analyzed (2): 6/30/94

Time Analyzed (1): 12:46 Time Analyzed (2): 13:32

Instrument ID (1): HPB2F Instrument ID (2): HPB2R

GC Column (1): DB608 ID: 0.53 (mm) GC Column (2): DB5 ID: 0.53 (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	PBLK01	NIP40849PB	6/30/94	6/30/94
02	WW001MS	JM9452PS	7/1/94	7/1/94
03	WW001MSD	JM9452PR	"	"
04	WW001	JM9452P	6/30/94	6/30/94
05	C6622	JM9439P	7/1/94	7/1/94
06				
07				
08				
09				
10				
11				
12				
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COMMENTS:

6E

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ASC Contract: N/A

Lab Code: N/A. Case No.: N/A SAS No.: N/A SDG No.: C6617

Instrument ID: HP82F Level (x low): low 1.00 mid 4.00 high 40.0

GC Column: DB608 ID: .53 (mm) Date(s) Analyzed: 6/24/94 6/25/94

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	12100000	14100000	25900000	17300000	42.9
beta-BHC	9183800	10000000	11400000	10200000	11.0
delta-BHC	9107200	11600000	21300000	13800000	47.7
gamma-BHC (Lindane)	12900000	15100000	24100000	17400000	34.4
Heptachlor	20000000	20100000	22200000	20800000	5.90
Aldrin	14200000	15100000	21500000	16900000	23.5
Heptachlor epoxide	18400000	19000000	20800000	19400000	6.46
Endosulfan I	16700000	16300000	18200000	17100000	5.82
Dieldrin	14600000	15300000	18100000	16000000	11.7
4,4'-DDE	11800000	13600000	17700000	14400000	20.9
Endrin	12200000	12400000	14700000	13100000	10.8
Endosulfan II	14300000	15300000	16000000	15200000	5.69
4,4'-DDD	9302300	9998400	13200000	10800000	19.1
Endosulfan sulfate	11400000	12000000	13200000	12200000	7.38
4,4'-DDT	8895900	9960700	13300000	10700000	21.6
Methoxychlor	7383700	7573550	6655982	7204411	6.72
Endrin ketone	11900000	13500000	6064O	8475138	86.5
Endrin aldehyde	11200000	11300000	11000000	11200000	4.28
alpha-Chlordane	19000000	20000000	21800000	20300000	7.05
gamma-Chlordane	18700000	19400000	21800000	20000000	8.15
Tetrachloro-m-xylene	17400000	17900000	18600000	18000000	3.51
Decachlorobiphenyl	29400000	25900000	19000000	24700000	21.4

* Surrogate calibration factors are measured from Standard Mix A analyses.

%RSD must be less than or equal 20.0 % for all compounds except the surrogates, where %RSD must be less than or equal to 30.0%. Up to two target compounds, but not surrogates, may have %RSD greater than 20.0% but less than or equal to 30.0%.

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: ASC Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: CL6017

Instrument ID: HP32F Date(s) Analyzed: 6/24/94 6/24/94

GC Column: DB608 ID: .53 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	.500	*1	22.57	22.50	22.64	324840
		*2	22.97	22.90	23.04	432440
		*3	23.81	23.74	23.88	330080
		4	24.14	24.07	24.21	258200
		5	24.65	24.58	24.72	339520
Aroclor 1016	.100	*1	11.08	11.01	11.15	460350
		*2	12.82	12.75	12.89	1099700
		*3	14.33	14.26	14.40	1758900
		4	15.00	14.93	15.07	645840
		5	15.65	15.58	15.72	505970
Aroclor 1221	.202	*1	7.32	7.25	7.39	221436
		*2	10.17	10.10	10.24	263346
		*3	10.80	10.73	10.87	199188
		4	11.06	10.99	11.13	633267
		5	—	—	—	—
Aroclor 1232	.100	*1	11.06	10.99	11.13	1057600
		*2	12.80	12.73	12.87	1157000
		*3	14.03	13.96	14.20	407050
		4	14.32	14.25	14.39	1667500
		5	14.99	14.92	15.06	621470
Aroclor 1242	.100	*1	11.07	11.00	11.14	432600
		*2	12.81	12.74	12.88	935680
		*3	14.32	14.25	14.39	1404700
		4	14.99	14.92	15.06	505930
		5	15.64	15.57	15.71	384010
Aroclor 1248	.100	*1	16.97	16.90	17.04	782200
		*2	17.48	17.41	17.55	674090
		*3	17.80	17.73	17.87	643330
		4	18.02	17.95	18.09	823050
		5	18.28	18.21	18.35	978520
Aroclor 1254	.100	*1	18.85	18.78	18.92	1325700
		*2	20.95	20.88	21.02	1519200
		*3	21.42	21.35	21.49	1400200
		4	21.66	21.59	21.73	741260
		5	21.99	21.92	22.06	860540
Aroclor 1260	.100	*1	21.67	21.60	21.74	1384200
		*2	22.00	21.93	22.07	1425800
		*3	22.80	22.73	22.87	472760
		4	23.73	23.66	23.80	1270700
		5	25.84	25.77	25.91	1971300

* Denotes required peaks

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ASC Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: C1617

Instrument ID: HP62F Level (x low): low 1.00 mid 4.00 high 40.0

GC Column: DB608 ID: 0.53 (mm) Date(s) Analyzed: 6/24/94 6/25/94

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	11.24	11.24	11.24	11.24	11.19	11.29
beta-BHC	13.21	13.21	13.21	13.21	13.16	13.26
delta-BHC	14.73	14.73	14.73	14.73	14.68	14.78
gamma-BHC (Lindane)	12.89	12.89	12.89	12.89	12.84	12.94
Heptachlor	14.23	14.23	14.23	14.23	14.18	14.28
Aldrin	15.60	15.60	15.60	15.60	15.55	15.65
Heptachlor epoxide	17.94	17.94	17.94	17.94	17.89	18.01
Endosulfan I	19.38	19.38	19.38	19.38	19.31	19.45
Dieldrin	20.63	20.63	20.63	20.63	20.56	20.70
4,4'-DDE	20.33	20.33	20.33	20.33	20.26	20.40
Endrin	22.11	22.11	22.11	22.11	22.04	22.18
Endosulfan II	22.84	22.84	22.84	22.84	22.77	22.91
4,4'-DDD	22.57	22.57	22.57	22.57	22.50	22.64
Endosulfan sulfate	24.65	24.65	24.65	24.65	24.58	24.72
4,4'-DDT	23.77	23.77	23.77	23.77	23.70	23.84
Methoxychlor	27.51	27.51	27.52	27.51	27.44	27.58
Endrin ketone	28.13	28.13	28.13	28.13	28.06	28.20
Endrin aldehyde	24.16	24.16	24.16	24.16	24.09	24.23
alpha-Chlordane	19.27	19.27	19.27	19.27	19.20	19.34
gamma-Chlordane	18.61	18.61	18.61	18.61	18.54	18.68
Tetrachloro-m-xylene	8.36	8.36	8.36	8.36	8.31	8.41
Decachlorobiphenyl	36.09	36.11	36.10	36.10	36.00	36.20

* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are ± 0.05 minutes for all compounds that elute before Heptachlor epoxide, ±0.07 minutes for all other compounds, except ±0.10 minutes for Decachlorobiphenyl.

6E

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ASC Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: C6617

Instrument ID: HP62R Level (x low): low 1.00 mid 4.00 high 40.0

GC Column: DB5 ID: .53 (mm) Date(s) Analyzed: 6/24/94 6/25/94

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	4704000	5705550	11200000	7209232	48.7
beta-BHC	4073000	4359950	5096010	4509653	11.7
delta-BHC	3757600	4576000	9611620	5981740	53.0
gamma-BHC (Lindane)	5299000	6291200	10600000	7405944	38.3
Heptachlor	8102200	8174400	9620420	8632340	9.92
Aldrin	3945600	6571200	9501856	7339552	25.9
Heptachlor epoxide	7980800	7945550	9206370	8377573	8.57
Endosulfan I	6911800	6860150	8063600	7278717	9.35
Dieldrin	6428800	6710400	8308660	7149287	14.2
4,4'-DDE	5900800	6002475	8165005	6689927	19.1
Endrin	5491200	5599975	7109675	6066951	14.9
Endosulfan II	6204700	6688750	7329503	6740984	8.37
4,4'-DDD	3718300	4246425	5965258	4643328	25.3
Endosulfan sulfate	4739100	5268775	6204540	5404139	13.7
4,4'-DDT	4969600	4920025	6454780	5448135	16.0
Methoxychlor	3609600	3687995	3195809	3497801	7.56
Endrin ketone	5756700	6627250	7541950	6641967	13.4
Endrin aldehyde	5254300	5328800	5320870	5301323	.772
alpha-Chlordane	8422200	8648000	9788420	8952874	8.18
gamma-Chlordane	8268800	8411250	9762176	8814076	9.35
Tetrachloro-m-xylene	6336000	7148750	7868040	7117597	10.8
Decachlorobiphenyl	12100000	10900000	8367233	10400000	18.1

* Surrogate calibration factors are measured from Standard Mix A analyses.

%RSD must be less than or equal 20.0 % for all compounds except the surrogates, where %RSD must be less than or equal to 30.0%. Up to two target compounds, but not surrogates, may have %RSD greater than 20.0% but less than or equal to 30.0%.

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ASC Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: CL017

Instrument ID: HP32R Level (x low): low 1.00 mid 4.00 high 40.0

GC Column: DB5 ID: 0.53 (mm) Date(s) Analyzed: 6/24/94 6/25/94

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	11.21	11.21	11.21	11.21	11.16	11.26
beta-BHC	12.11	12.10	12.10	12.10	12.05	12.15
delta-BHC	13.55	13.55	13.55	13.55	13.50	13.60
gamma-BHC (Lindane)	12.51	12.50	12.50	12.50	12.00	12.55
Heptachlor	15.43	15.42	15.42	15.42	15.37	15.47
Aldrin	16.90	16.90	16.90	16.90	16.85	16.95
Heptachlor epoxide	18.42	18.42	18.42	18.42	18.35	18.49
Endosulfan I	19.92	19.92	19.92	19.92	19.85	19.99
Dieldrin	21.01	21.01	21.01	21.01	20.94	21.08
4,4'-DDE	20.65	20.65	20.65	20.65	20.58	20.72
Endrin	21.87	21.86	21.86	21.86	21.79	21.93
Endosulfan II	22.27	22.27	22.27	22.27	22.20	22.34
4,4'-DDD	22.33	22.33	22.32	22.32	22.25	22.39
Endosulfan sulfate	23.76	23.76	23.76	23.76	23.69	23.83
4,4'-DDT	23.83	23.83	23.82	23.82	23.75	23.89
Methoxychlor	25.96	25.96	25.96	25.96	25.89	29.03
Endrin ketone	25.70	25.70	25.70	25.70	25.63	25.77
Endrin aldehyde	22.83	22.83	22.83	22.83	22.76	22.90
alpha-Chlordane	19.88	19.88	19.88	19.88	19.81	19.95
gamma-Chlordane	19.37	19.37	19.37	19.37	19.30	19.44
Tetrachloro-m-xylene	9.63	9.63	9.63	9.63	9.58	9.68
Decachlorobiphenyl	36.69	36.70	36.71	36.70	36.60	36.80

* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are ± 0.05 minutes for all compounds that elute before Heptachlor epoxide, ±0.07 minutes for all other compounds, except ±0.10 minutes for Decachlorobiphenyl.

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: ASC Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: Cidel7

Instrument ID: HPB2R Date(s) Analyzed: 6/24/94 6/24/94

GC Column: DB5 ID: 0.53 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	.500	*1	22.60	22.53	22.67	203460
		*2	23.74	23.67	23.81	213460
		*3	24.11	24.04	24.18	202240
		4	24.68	24.61	24.75	293220
		5	25.51	25.44	25.58	254080
Aroclor 1016	.100	*1	11.28	11.21	11.35	210110
		*2	12.89	12.82	12.96	421570
		*3	13.64	13.57	13.71	250570
		4	14.79	14.72	14.86	649250
		5	15.13	15.06	15.20	290070
Aroclor 1221	.202	*1	7.43	7.36	7.50	106306
		*2	10.62	10.55	10.69	100811
		*3	11.01	10.94	11.08	78445
		4	11.27	11.20	11.34	279014
		5	—	—	—	—
Aroclor 1232	.100	*1	11.27	11.20	11.34	455200
		*2	12.89	12.82	12.96	449740
		*3	13.64	13.57	13.71	245900
		4	14.79	14.72	14.86	596670
		5	15.13	15.06	15.20	272730
Aroclor 1242	.100	*1	11.28	11.21	11.35	190360
		*2	12.89	12.82	12.96	365170
		*3	13.64	13.57	13.71	200200
		4	14.79	14.72	14.86	504750
		5	15.13	15.06	15.20	237450
Aroclor 1248	.100	*1	14.79	14.72	14.86	431860
		*2	15.13	15.06	15.20	173690
		*3	16.13	16.06	16.20	277410
		4	16.92	16.85	16.99	288760
		5	17.41	17.34	17.48	359980
Aroclor 1254	.100	*1	18.60	18.53	18.67	646430
		*2	19.53	19.46	19.60	649440
		*3	20.93	20.86	21.00	646970
		4	21.83	21.76	21.90	339560
		5	22.00	21.93	22.07	435710
Aroclor 1260	.100	*1	21.83	21.76	21.90	546860
		*2	22.81	22.74	22.88	839650
		*3	23.32	23.25	23.39	316540
		4	23.86	23.79	23.93	227440
		5	26.53	26.46	26.60	225360

* Denotes required peaks

GC
PESTICIDE ANALYTE RESOLUTION SUMMARY

Lab Name: ASC Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: C1617

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): B2F

EPA Sample No. (Standard 1): RESCF Lab Sample ID (1): GA7590

Date Analyzed (1): 6/29/94 Time Analyzed (1): 1255

	ANALYTE	RT	RESOLUTION (%)
01	TCX	8.35	100
02	gamma-Chlordane	18.60	100
03	Endosulfan I	19.37	100
04	4,4'-DDE	20.32	100
05	Dieldrin	20.62	100
06	Endosulfan Sulfate	24.64	100
07	Methoxychlor	27.50	100
08	Endrin Ketone	28.12	100
09	DCB	36.08	100

GC Column (2): DB-5 ID: .53 (mm) Instrument ID (2): B2R

EPA Sample No. (Standard 2): RESCR Lab Sample ID (2): GA7590

Date Analyzed (2): 6/29/94 Time Analyzed (2): 1255

	ANALYTE	RT	RESOLUTION (%)
01	TCX	9.62	100
02	gamma-Chlordane	19.36	100
03	Endosulfan I	19.92	100
04	4,4'-DDE	20.64	100
05	Dieldrin	21.00	100
06	Endosulfan Sulfate	23.75	100
07	Endrin Ketone	25.69	99
08	Methoxychlor	25.95	99
09	DCB	36.69	100

Resolution of two adjacent peaks must be calculated as a percentage of the height of the smaller peak, and must be greater than or equal to 60.0%.

6E

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ASC Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: N/A (6007)

Instrument ID: HP82F Level (x low): low 1.00 mid 4.00 high 40.0

GC Column: DB608 ID: 0.53 (mm) Date(s) Analyzed: 7/1/94 7/2/94

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	11000000	12700000	24500000	16000000	46.0
beta-BHC	8262400	9193550	10800000	9424718	13.7
delta-BHC	8998200	11000000	21500000	13800000	48.6
gamma-BHC (Lindane)	11800000	13700000	22900000	16200000	36.8
Heptachlor	17800000	18200000	20800000	18900000	8.55
Aldrin	13000000	14000000	20500000	15800000	25.6
Heptachlor epoxide	17200000	17800000	20000000	18400000	7.92
Endosulfan I	15300000	15000000	17200000	15800000	7.63
Dieldrin	13500000	14000000	17200000	14900000	13.3
4,4'-DDE	11000000	12600000	16900000	13500000	22.6
Endrin	11000000	11200000	13800000	12000000	13.0
Endosulfan II	13300000	14400000	15400000	14300000	7.30
4,4'-DDD	8550400	9040400	12400000	10000000	20.9
Endosulfan sulfate	10900000	11700000	12900000	11800000	8.67
4,4'-DDT	8339100	9284700	12700000	10100000	22.8
Methoxychlor	6263520	6743270	6178506	6428432	4.48
Endrin ketone	11100000	12700000	15400000	13100000	16.6
Endrin aldehyde	10500000	10700000	10500000	10600000	1.02
alpha-Chlordane	17400000	18700000	21000000	19000000	9.52
gamma-Chlordane	17500000	18300000	20900000	18900000	9.44
Tetrachloro-m-xylene	16000000	16500000	17600000	16700000	4.80
Decachlorobiphenyl	24400000	23700000	17800000	22600000	19.4

* Surrogate calibration factors are measured from Standard Mix A analyses.

%RSD must be less than or equal 20.0 % for all compounds except the surrogates, where %RSD must be less than or equal to 30.0%. Up to two target compounds, but not surrogates, may have %RSD greater than 20.0% but less than or equal to 30.0%.

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: ASC Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: ~~N/A~~ C6617

Instrument ID: HP82F Date(s) Analyzed: 7/1/94 7/2/94

GC Column: DB608 ID: 0.53 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	.500	*1	22.98	22.91	23.05	421280
		*2	23.82	23.75	23.89	341460
		*3	24.16	24.09	24.23	244880
		4	24.28	24.21	24.35	214400
		5	24.67	24.60	24.74	350940
Aroclor 1016	.100	*1	11.08	11.01	11.15	436710
		*2	12.82	12.75	12.89	105 2100
		*3	14.33	14.26	14.40	169 0400
		4	15.01	14.94	15.08	653610
		5	15.65	15.58	15.72	542070
Aroclor 1221	.200	*1	7.32	7.25	7.39	204678
		*2	10.18	10.11	10.25	240490
		*3	10.81	10.74	10.88	182124
		4	11.07	11.00	11.14	588366
		5	—	—	—	—
Aroclor 1232	.100	*1	7.32	7.25	7.39	232450
		*2	10.18	10.11	10.25	291230
		*3	10.81	10.74	10.88	249440
		4	11.07	11.00	11.14	976910
		5	12.81	12.74	12.88	1063500
Aroclor 1242	.100	*1	11.08	11.01	11.15	390510
		*2	12.82	12.75	12.89	861910
		*3	14.33	14.26	14.40	1297100
		4	15.01	14.94	15.08	476320
		5	15.65	15.58	15.72	407720
Aroclor 1248	.100	*1	14.33	14.26	14.40	1102700
		*2	15.65	15.58	15.72	679430
		*3	16.98	16.91	17.05	736440
		4	17.49	17.42	17.56	625050
		5	18.03	17.96	18.10	795940
Aroclor 1254	.100	*1	18.61	18.54	18.68	1014600
		*2	18.86	18.79	18.93	1254200
		*3	20.33	20.46	20.60	612750
		4	20.96	20.89	21.03	1398600
		5	21.43	21.36	21.50	1060700
Aroclor 1260	.100	*1	22.00	21.93	22.07	1358800
		*2	23.74	23.67	23.81	1200400
		*3	25.30	25.23	25.37	725870
		4	25.85	25.78	25.92	1745300
		5	28.05	27.98	28.12	886980

* Denotes required peaks

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ASC Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: N/A CLG17

Instrument ID: HP62F Level (x low): low 1.00 mid 4.00 high 40.0

GC Column: DB608 ID: 0.53 (mm) Date(s) Analyzed: 7/1/94 7/2/94

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	11.25	11.25	11.25	11.25	11.20	11.30
beta-BHC	13.23	13.22	13.22	13.22	13.17	13.27
delta-BHC	14.75	14.75	14.74	14.75	14.70	14.80
gamma-BHC (Lindane)	12.90	12.90	12.90	12.90	12.85	12.95
Heptachlor	14.24	14.24	14.24	14.24	14.19	14.29
Aldrin	15.61	15.61	15.61	15.61	15.56	15.66
Heptachlor epoxide	17.95	17.95	17.95	17.95	17.88	18.02
Endosulfan I	19.39	19.39	19.38	19.39	19.32	19.46
Dieldrin	20.64	20.64	20.63	20.64	20.57	20.71
4,4'-DDE	20.34	20.33	20.33	20.34	20.27	20.41
Endrin	22.13	22.13	22.12	22.12	22.05	22.19
Endosulfan II	22.86	22.85	22.85	22.85	22.78	22.92
4,4'-DDD	22.58	22.58	22.58	22.58	22.51	22.65
Endosulfan sulfate	24.66	24.66	24.66	24.66	24.59	24.73
4,4'-DDT	23.78	23.78	23.78	23.78	23.71	23.85
Methoxychlor	27.53	27.53	27.53	27.53	27.46	27.60
Endrin ketone	28.15	28.15	28.14	28.15	28.08	28.22
Endrin aldehyde	24.17	24.17	24.17	24.17	24.10	24.24
alpha-Chlordane	19.28	19.28	19.28	19.28	19.21	19.35
gamma-Chlordane	18.62	18.62	18.62	19.62	18.55	18.69
Tetrachloro-m-xylene	8.37	8.37	8.37	8.37	8.32	8.42
Decachlorobiphenyl	36.13	36.13	36.13	36.13	36.03	36.23

* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are ± 0.05 minutes for all compounds that elute before Heptachlor epoxide, ±0.07 minutes for all other compounds, except ±0.10 minutes for Decachlorobiphenyl.

6E

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ASC Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: C6617 N/A

Instrument ID: HP23R Level (x low): low 1.00 mid 4.00 high 40.0

GC Column: DB5 ID: 0.53 (mm) Date(s) Analyzed: 7/1/94 7/2/94

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	4524800	5523200	10900000	6993643	49.3
beta-BHC	3686400	4124750	4918920	4243357	14.7
delta-BHC	4179000	4900750	9973710	6351153	49.7
gamma-BHC (Lindane)	5081400	6663950	10420000	7165444	39.1
Heptachlor	7724600	7864000	9272416	8287005	10.3
Aldrin	5631800	6211250	9119246	6987432	26.8
Heptachlor epoxide	746.3200	765900	8882720	8000273	9.63
Endosulfan I	6739000	6568000	7757840	7021613	9.16
Dieldrin	6131200	6403150	8001743	6845364	14.8
4,4'-DDE	6371200	6053625	7862893	6762573	14.3
Endrin	5359900	5482425	6929220	5923849	14.7
Endosulfan II	5983900	6493575	7143388	6540288	8.89
4,4'-DDD	3773700	4173600	5860880	4602393	24.1
Endosulfan sulfate	5014400	5903225	6183788	5700472	10.7
4,4'-DDT	4995200	4861625	6223500	5360109	14.0
Methoxychlor	3672320	3782565	3169971	3541618	9.22
Endrin ketone	5795100	6847450	2622745	6155265	13.6
Endrin aldehyde	5161500	5380000	5267330	5269610	2.07
alpha-Chlordane	7852800	8233600	9443136	8509846	9.76
gamma-Chlordane	7731000	8046400	9403936	8393778	10.6
Tetrachloro-m-xylene	6111800	6780750	7570960	6821171	10.7
Decachlorobiphenyl	11700000	10800000	8337630	10200000	17.5

* Surrogate calibration factors are measured from Standard Mix A analyses.

%RSD must be less than or equal 20.0 % for all compounds except the surrogates, where %RSD must be less than or equal to 30.0%. Up to two target compounds, but not surrogates, may have %RSD greater than 20.0% but less than or equal to 30.0%.

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: ASC Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: ~~N/A~~ 06067

Instrument ID: HPB2R Date(s) Analyzed: 7/1/94 7/2/94

GC Column: DB5 ID: 0.53 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene		*1	22.69	22.62	22.76	209940
		*2	23.83	23.76	23.90	240360
		*3	24.20	24.13	24.27	208020
		4	24.76	24.69	24.83	346140
		5	25.60	25.53	25.67	279720
Aroclor 1016		*1	11.36	11.29	11.43	198650
		*2	12.97	12.90	13.04	446080
		*3	13.72	13.65	13.79	241670
		4	14.88	14.81	14.95	620790
		5	15.22	15.15	15.29	277300
Aroclor 1221		*1	7.49	7.42	7.56	98950
		*2	10.69	10.62	10.76	100540
		*3	11.09	11.02	11.16	253420
		4	11.35	11.28	11.42	265847
		5				
Aroclor 1232		*1	7.50	7.43	7.57	113670
		*2	10.70	10.63	10.77	119620
		*3	11.09	11.02	11.16	98090
		4	11.35	11.28	11.42	426430
		5	12.97	12.90	13.04	422920
Aroclor 1242		*1	11.36	11.29	11.43	181950
		*2	12.97	12.90	13.04	317810
		*3	13.72	13.65	13.79	184780
		4	14.81	14.74	14.88	406740
		5	15.22	15.15	15.29	207770
Aroclor 1248		*1	14.87	14.80	14.94	426440
		*2	16.22	16.15	16.29	257460
		*3	16.47	16.40	16.54	212230
		4	17.00	16.93	17.07	269780
		5	17.50	17.43	17.57	344050
Aroclor 1254		*1	18.69	18.62	18.76	593050
		*2	19.62	19.55	19.69	624400
		*3	21.01	20.94	21.08	600140
		4	21.91	21.84	21.98	309920
		5	22.08	22.01	22.15	407380
Aroclor 1260		*1	23.94	23.87	24.01	667210
		*2	24.50	24.43	24.57	316020
		*3	24.71	24.64	24.78	317020
		4	26.43	25.36	25.50	298150
		5	26.62	26.55	26.69	692670

* Denotes required peaks

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ASC Contract: _____

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

Instrument ID: HP83R Level (x low): low 1.00 mid 4.00 high 40.0

GC Column: DB5 ID: 0.53 (mm) Date(s) Analyzed: 7/1/94 7/2/94

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	11.29	11.29	11.28	11.29	11.24	11.34
beta-BHC	12.18	12.18	12.17	12.18	12.13	12.23
delta-BHC	13.63	13.63	13.63	13.63	13.58	13.68
gamma-BHC (Lindane)	12.59	12.58	12.58	12.59	12.54	12.64
Heptachlor	15.52	15.52	15.52	15.52	15.47	15.57
Aldrin	16.99	16.99	16.98	16.99	16.94	17.04
Heptachlor epoxide	18.52	18.51	18.51	18.51	18.44	18.58
Endosulfan I	20.02	20.02	20.02	20.02	19.95	20.09
Dieldrin	21.09	21.09	21.09	21.09	21.02	21.16
4,4'-DDE	20.73	20.73	20.72	20.73	20.66	20.80
Endrin	21.95	21.95	21.95	21.95	21.88	22.02
Endosulfan II	22.36	22.35	22.35	22.35	22.28	22.42
4,4'-DDD	22.41	22.40	22.40	22.40	22.33	22.47
Endosulfan sulfate	23.84	23.84	23.84	23.84	23.77	23.91
4,4'-DDT	23.91	23.90	23.90	23.90	23.83	23.97
Methoxychlor	26.05	26.04	26.04	26.04	25.97	26.11
Endrin ketone	25.79	25.79	25.79	25.79	25.72	25.86
Endrin aldehyde	22.92	22.92	22.91	22.91	22.84	22.98
alpha-Chlordane	19.97	19.97	19.97	19.97	19.90	20.04
gamma-Chlordane	19.45	19.45	19.45	19.45	19.38	19.52
Tetrachloro-m-xylene	9.71	9.71	9.71	9.71	9.66	9.76
Decachlorobiphenyl	36.88	36.88	36.88	36.88	36.78	36.98

* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are ± 0.05 minutes for all compounds that elute before Heptachlor epoxide, ±0.07 minutes for all other compounds, except ±0.10 minutes for Decachlorobiphenyl.

GG

PESTICIDE ANALYTE RESOLUTION SUMMARY

Lab Name: ASC Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CC617

GC Column (1): DB-608 ID: .53 (mm) Instrument ID (1): B2F

EPA Sample No. (Standard 1): RESCF Lab Sample ID (1): GA7590

Date Analyzed (1): 7/1/94 Time Analyzed (1): 1625

	ANALYTE	RT	RESOLUTION (%)
01	TCX	9.37	100
02	gamma-chlordane	19.62	100
03	Endosulfan I	19.99	100
04	4,4'-DDE	20.34	100
05	Dieldrin	20.65	100
06	Endosulfan Sulfate	24.66	100
07	Methoxychlor	27.53	100
08	Endrin Ketone	28.15	100
09	DCB	30.13	100

GC Column (2): DB-5 ID: .53 (mm) Instrument ID (2): B2R

EPA Sample No. (Standard 2): RESCR Lab Sample ID (2): GA7590

Date Analyzed (2): 7/1/94 Time Analyzed (2): 1711

	ANALYTE	RT	RESOLUTION (%)
01	TCX	9.70	100
02	gamma-chlordane	19.44	100
03	Endosulfan I	20.01	100
04	4,4'-DDE	20.73	100
05	Dieldrin	21.09	100
06	Endosulfan Sulfate	23.83	100
07	Endrin Ketone	25.78	92
08	Methoxychlor	26.04	98
09	DCB	30.89	150

Resolution of two adjacent peaks must be calculated as a percentage of the height of the smaller peak, and must be greater than or equal to 60.0%.

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ASC Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: C6617

GC Column: DB608 ID: 0.53 (mm) Init. Calib. Date(s): 6/24/94 6/25/94

EPA Sample No.(PIBLK): PIBLKF1 Date Analyzed : 6/30/94

Lab Sample ID (PIBLK): PIBLKF1 Time Analyzed : 10:04

EPA Sample No.(PEM): PEMF1 Date Analyzed : 6/30/94

Lab Sample ID (PEM): PEMF1 Time Analyzed : 10:50

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	11.24	11.19	11.29	.008	.010	84.1
beta-BHC	13.22	13.16	13.26	.010	.010	92.0
gamma-BHC (Lindane)	12.90	12.84	12.94	.008	.010	78.2
Endrin	22.12	22.04	22.18	.051	.050	102
4,4'-DDT	23.77	23.70	23.84	.116	.100	116
Methoxychlor	27.52	27.44	27.58	.224	.250	89.6

4,4'-DDT % breakdown (1): 4.50 Endrin % breakdown (1): 7.73

Combined % breakdown (1): 12.2

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ASC Contract: N/A

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

GC Column: DB608 ID: 0.53 (mm) Init. Calib. Date(s): 6/24/94 6/25/94

EPA Sample No.(PIBLK): PIBLK2 Date Analyzed : 6/30/94

Lab Sample ID (PIBLK): PIBLK2 Time Analyzed : 18:06

EPA Sample No.(INDA): INDAF1 Date Analyzed : 6/30/94

Lab Sample ID (INDA): INDAF1 Time Analyzed : 18:52

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	11.25	11.19	11.29	.019	.020	22.7
gamma-BHC (Lindane)	12.90	12.84	12.94	.019	.020	17.0
Heptachlor	14.24	14.18	14.28	.019	.020	8.77
Endosulfan I	19.38	19.31	19.45	.020	.020	6.63
Dieldrin	20.63	20.56	20.70	.039	.040	7.33
Endrin	22.12	22.04	22.18	.038	.040	10.4
4,4'-DDD	22.58	22.50	22.64	.038	.040	11.7
4,4'-DDT	23.78	23.70	23.84	.038	.040	10.3
Methoxychlor	27.52	27.44	27.58	.180	.200	5.58
Tetrachloro-m-xylene	8.37	8.31	8.41	.019	.020	2.86
Decachlorobiphenyl	36.11	36.00	36.20	.038	.040	.05

EPA Sample No.(INDB): INDBF1 Date Analyzed : 6/30/94

Lab Sample ID (INDB): INDBF1 Time Analyzed : 19:38

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	13.22	13.16	13.26	.019	.020	5.25
delta-BHC	14.74	14.68	14.78	.021	.020	16.1
Aldrin	15.60	15.55	15.65	.019	.020	14.3
Heptachlor epoxide	17.94	17.87	18.01	.020	.020	3.60
4,4'-DDE	20.33	20.26	20.40	.039	.040	7.14
Endosulfan II	22.85	22.77	22.91	.039	.040	1.51
Endosulfan sulfate	24.65	24.58	24.72	.039	.040	3.95
Endrin ketone	28.14	28.06	28.20	.038	.040	50.7
Endrin aldehyde	24.16	24.09	24.23	.039	.040	2.75
alpha-Chlordane	19.28	19.20	19.34	.020	.020	3.05
gamma-Chlordane	18.61	18.54	18.68	.020	.020	3.76
Tetrachloro-m-xylene	8.37	8.31	8.41	.019	.020	.05
Decachlorobiphenyl	36.11	36.00	36.20	.039	.040	.03

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ASC Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: C1617

GC Column: DB608 ID: 0.53 (mm) Init. Calib. Date(s): 6/24/94 6/25/94

EPA Sample No.(PIBLK): PIBLKF3 Date Analyzed : 7/1/94

Lab Sample ID (PIBLK): PIBLKF3 Time Analyzed : 06:16

EPA Sample No.(PEM): PEMF2 Date Analyzed : 7/1/94

Lab Sample ID (PEM): PEMF2 Time Analyzed : 07:02

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	11.25	11.19	11.29	.009	.010	93.6
beta-BHC	13.22	13.16	13.26	.011	.010	108
gamma-BHC (Lindane)	12.90	12.84	12.94	.009	.010	88.5
Endrin	22.12	22.04	22.18	.058	.050	116
4,4'-DDT	23.78	23.70	23.84	.132	.100	132
Methoxychlor	27.53	27.44	27.58	.263	.250	105

4,4'-DDT % breakdown (1): 2.64 Endrin % breakdown (1): 4.36

Combined % breakdown (1): 7.00

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ASC Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: CL617

GC Column: DB5 ID: 0.53 (mm) Init. Calib. Date(s): 6/24/94 6/25/94

EPA Sample No.(PIBLK): PIBLKR1 Date Analyzed : 6/30/94

Lab Sample ID (PIBLK): PIBLKR1 Time Analyzed : 10:04

EPA Sample No.(PEM): PEMR1 Date Analyzed : 6/30/94

Lab Sample ID (PEM): PEMR1 Time Analyzed : 10:50

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	11.24	11.16	11.26	.008	.010	81.9
beta-BHC	12.13	12.05	12.15	.010	.010	101
gamma-BHC (Lindane)	12.53	12.00	12.55	.008	.010	78.6
Endrin	21.89	21.79	21.93	.055	.050	109
4,4'-DDT	23.85	23.75	23.89	.115	.100	46
Methoxychlor	25.98	25.89	29.03	.247	.250	98.8

4,4'-DDT % breakdown (1): 0.00 Endrin % breakdown (1): 0.00

Combined % breakdown (1): 0.00

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ASC Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: C6617

GC Column: DB5 ID: 0.53 (mm) Init. Calib. Date(s): 6/24/94 6/25/94

EPA Sample No.(PIBLK): PIBLKR2 Date Analyzed : 6/30/94

Lab Sample ID (PIBLK): PIBLKR3 Time Analyzed : 18:52

EPA Sample No.(INDA): INDAR1 Date Analyzed : 6/30/94

Lab Sample ID (INDA): INDAR1 Time Analyzed : 19:38

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	11.24	11.16	11.26	.020	.020	20.3
gamma-BHC (Lindane)	12.54	12.00	12.53	.020	.020	14.7
Heptachlor	15.47	15.37	15.47	.020	.020	6.88
Endosulfan I	19.96	19.85	19.99	.020	.020	5.74
Dieldrin	21.04	20.94	21.08	.040	.040	5.59
Endrin	21.89	21.79	21.93	.040	.040	8.62
4,4'-DDD	22.35	22.25	22.39	.041	.040	6.52
4,4'-DDT	23.85	23.75	23.89	.040	.040	10.9
Methoxychlor	25.99	25.89	29.03	.197	.200	3.86
Tetrachloro-m-xylene	9.66	9.58	9.68	.020	.020	.44
Decachlorobiphenyl	36.77	36.60	36.80	.041	.040	6.10

EPA Sample No.(INDB): INDBR1 Date Analyzed : 6/30/94

Lab Sample ID (INDB): INDBR1 Time Analyzed : 20:23

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	12.13	12.05	12.15	.020	.020	5.91
delta-BHC	13.58	13.50	13.60	.022	.020	17.3
Aldrin	16.93	16.85	16.95	.020	.020	11.0
Heptachlor epoxide	18.46	18.35	18.49	.020	.020	4.12
4,4'-DDE	20.68	20.58	20.72	.042	.040	4.83
Endosulfan II	22.30	22.20	22.34	.040	.040	.33
Endosulfan sulfate	23.78	23.69	23.83	.044	.040	8.13
Endrin ketone	25.73	25.63	25.77	.041	.040	2.45
Endrin aldehyde	22.86	22.76	22.90	.040	.040	.53
alpha-Chlordane	19.92	19.81	19.95	.020	.020	3.57
gamma-Chlordane	19.39	19.30	19.44	.020	.020	4.52
Tetrachloro-m-xylene	9.66	9.58	9.68	.020	.020	.02
Decachlorobiphenyl	36.77	36.60	36.80	.040	.040	.01

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ASC Contract: N/A

Lab Code: N.A Case No.: N/A SAS No.: N/A SDG No.: C1617

GC Column: DB5 ID: 0.53 (mm) Init. Calib. Date(s): 6/24/94 6/25/94

EPA Sample No.(PIBLK): PIBLKR3 Date Analyzed : 7/1/94

Lab Sample ID (PIBLK): PIBLKR3 Time Analyzed : 07:02

EPA Sample No.(PEM): PEMR2 Date Analyzed : 7/1/94

Lab Sample ID (PEM): PEMR2 Time Analyzed : 07:47

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	11.24	11.16	11.26	.009	.010	94.0
beta-BHC	12.14	12.05	12.15	.011	.010	111
gamma-BHC (Lindane)	12.54	12.00	12.55	.009	.010	88.9
Endrin	21.90	21.79	21.93	.061	.050	132
4,4'-DDT	23.85	23.25	23.89	.132	.100	132
Methoxychlor	25.99	25.89	29.03	.281	.250	124

4,4'-DDT % breakdown (1): 3.41 Endrin % breakdown (1): 0.00

Combined % breakdown (1): 3.41

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ASC Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: CL667

GC Column: DB-608 ID: .53 (mm) Init. Calib. Date(s): 7/1/94 7/2/94

EPA Sample No.(PIBLK): PIBLKF2 Date Analyzed : 7/5/94

Lab Sample ID (PIBLK): PIBLKF2 Time Analyzed : 09:50

EPA Sample No.(PEM): PEMF2 Date Analyzed : 7/5/94

Lab Sample ID (PEM): PEMF2 Time Analyzed : 10:36

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	11.25	11.20	11.30	.009	.010	84.9
beta-BHC	13.22	13.17	13.27	.010	.010	101
gamma-BHC (Lindane)	12.90	12.85	12.95	.008	.010	80.1
Endrin	22.12	22.05	22.19	.051	.050	103
4,4'-DDT	23.77	23.71	23.85	.104	.100	104
Methoxychlor	27.52	27.46	27.60	.180	.250	72.0

4,4'-DDT % breakdown (1): 4.79 Endrin % breakdown (1): 5.29

Combined % breakdown (1): 10.4

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ASC Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: C6617

GC Column: DB608 ID: 0.53 (mm) Init. Calib. Date(s): 7/1/94 7/2/94

EPA Sample No.(PIBLK): PIBLKF3 Date Analyzed : 7/5/94

Lab Sample ID (PIBLK): PIBLKF3 Time Analyzed : 18:29

EPA Sample No.(INDA): INDAF1 Date Analyzed : 7/5/94

Lab Sample ID (INDA): INDAF1 Time Analyzed : 19:15

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	11.24	11.20	11.30	.020	.020	21.2
gamma-BHC (Lindane)	12.89	12.85	12.93	.040	.020	16.9
Heptachlor	14.23	14.19	14.29	.020	.020	6.43
Endosulfan I	19.36	19.32	19.46	.020	.020	7.33
Dieldrin	20.63	20.57	20.71	.039	.040	9.29
Endrin	22.11	22.05	22.19	.039	.040	11.48
4,4'-DDD	22.57	22.51	22.65	.040	.040	9.67
4,4'-DDT	23.77	23.71	23.85	.035	.040	20.2
Methoxychlor	27.51	27.46	27.60	.179	.200	6.14
Tetrachloro-m-xylene	8.36	8.32	8.42	.020	.020	.62
Decachlorobiphenyl	36.09	36.03	36.23	.037	.040	2.31

EPA Sample No.(INDB): INDBF1 Date Analyzed : 7/5/94

Lab Sample ID (INDB): INDBF1 Time Analyzed : 20:00

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	13.21	13.17	13.27	.020	.020	2.13
delta-BHC	14.74	14.70	14.80	.020	.020	20.0
Aldrin	15.60	15.56	15.66	.020	.020	9.98
Heptachlor epoxide	17.94	17.88	18.02	.020	.020	2.58
4,4'-DDE	20.33	20.27	20.41	.040	.040	6.57
Endosulfan II	22.84	22.78	22.92	.040	.040	.52
Endosulfan sulfate	24.65	24.59	24.73	.040	.040	2.14
Endrin ketone	28.13	28.08	28.22	.039	.040	5.17
Endrin aldehyde	24.16	24.10	24.24	.039	.040	.62
alpha-Chlordane	19.27	19.21	19.35	.020	.020	1.41
gamma-Chlordane	18.61	18.55	18.69	.020	.020	2.56
Tetrachloro-m-xylene	8.36	8.32	8.42	.020	.020	.02
Decachlorobiphenyl	36.09	36.03	36.23	.038	.040	.04

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ASC Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: C1d017

GC Column: DB-608 ID: 0.53 (mm) Init. Calib. Date(s): 7/1/94 7/2/94

EPA Sample No.(PIBLK): PIBLKR2 Date Analyzed : 7/5/94

Lab Sample ID (PIBLK): PIBLKR2 Time Analyzed : 09:50

EPA Sample No.(PEM): PEMR2 Date Analyzed : 7/5/94

Lab Sample ID (PEM): PEMR2 Time Analyzed : 10:36

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	11.30	11.24	11.34	.008	.010	82.6
beta-BHC	12.19	12.13	12.23	.010	.010	102
gamma-BHC (Lindane)	12.60	12.54	12.64	.008	.010	78.6
Endrin	21.96	21.88	22.02	.052	.050	105
4,4'-DDT	23.91	23.83	23.97	.106	.100	106
Methoxychlor	26.05	25.97	26.11	.225	.250	90

4,4'-DDT % breakdown (1): 0.00 Endrin % breakdown (1): 0.00

Combined % breakdown (1): 0.00

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ASC Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: C1667

GC Column: DB5 ID: 0.53 (mm) Init. Calib. Date(s): 7/1/94 7/2/94

EPA Sample No.(PIBLK): PIBLKR3 Date Analyzed: 7/5/94

Lab Sample ID (PIBLK): PIBLKR3 Time Analyzed: 19:15

EPA Sample No.(INDA): INDAR1 Date Analyzed: 7/5/94

Lab Sample ID (INDA): INDAR1 Time Analyzed: 20:00

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	11.28	11.24	11.34	.019	.020	24.2
gamma-BHC (Lindane)	12.58	12.54	12.64	.019	.020	15.9
Heptachlor	15.51	15.47	15.57	.019	.020	10.1
Endosulfan I	20.01	19.95	20.09	.014	.020	13.6
Dieldrin	21.08	21.02	21.16	.037	.040	14.1
Endrin	21.94	21.88	22.02	.037	.040	15.6
4,4'-DDD	22.39	22.33	22.47	.038	.040	14.8
4,4'-DDT	23.89	23.83	23.97	.033	.040	25.3
Methoxychlor	26.03	25.97	26.11	.175	.200	6.43
Tetrachloro-m-xylene	9.70	9.66	9.76	.020	.020	3.22
Decachlorobiphenyl	36.86	36.78	36.98	.038	.040	.22

EPA Sample No.(INDB): INDBR1 Date Analyzed: 7/5/94

Lab Sample ID (INDB): INDBR1 Time Analyzed: 20:46

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	12.17	12.13	12.23	.020	.020	4.64
delta-BHC	13.63	13.58	13.68	.020	.020	22.4
Aldrin	16.97	16.94	17.04	.020	.020	12.6
Heptachlor epoxide	18.50	18.44	18.58	.020	.020	5.79
4,4'-DDE	20.12	20.06	20.16	.037	.040	17.2
Endosulfan II	22.34	22.28	22.42	.039	.040	3.73
Endosulfan sulfate	23.83	23.77	23.91	.037	.040	4.43
Endrin ketone	25.78	25.72	25.86	.039	.040	2.62
Endrin aldehyde	20.90	22.84	22.98	.038	.040	2.16
alpha-Chlordane	19.96	19.90	20.04	.020	.020	6.35
gamma-Chlordane	19.44	19.38	19.52	.020	.020	6.14
Tetrachloro-m-xylene	9.70	9.66	9.76	.020	.020	0.0
Decachlorobiphenyl	36.85	36.78	36.98	.040	.040	.01

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ASC Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: C6617

GC Column: DB608 ID: 0.53 (mm) Init. Calib. Date(s): 7/1/94 7/2/94

EPA Sample No.(PIBLK): PIBLKF4 Date Analyzed : 7/6/94

Lab Sample ID (PIBLK): PIBLKF4 Time Analyzed : 05:53

EPA Sample No.(PEM): PEMF3 Date Analyzed : 7/6/94

Lab Sample ID (PEM): PEMF3 Time Analyzed : 06:38

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	11.24	11.20	11.30	.009	.010	89.5
beta-BHC	13.21	13.17	13.27	.011	.010	106
gamma-BHC (Lindane)	12.89	12.85	12.95	.009	.010	86.6
Endrin	22.11	22.05	22.19	.055	.020	111
4,4'-DDT	23.76	23.71	23.85	.118	.100	118
Methoxychlor	27.51	27.46	27.60	.248	.250	99.2

4,4'-DDT % breakdown (1): 4.56 Endrin % breakdown (1): 5.59

Combined % breakdown (1): 10.2

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ASC Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: C6617

GC Column: DB608 ID: 0.53 (mm) Init. Calib. Date(s): 7/1/94 7/2/94

EPA Sample No.(PIBLK): PIBLKF5 Date Analyzed : 7/6/94

Lab Sample ID (PIBLK): PIBLKF5 Time Analyzed : 09.41

EPA Sample No.(INDA): INDAF2 Date Analyzed : 7/6/94

Lab Sample ID (INDA): INDAF2 Time Analyzed : 10:26

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	11.24	11.20	11.30	.021	.020	18.6
gamma-BHC (Lindane)	12.89	12.85	12.95	.021	.020	12.8
Heptachlor	14.23	14.19	14.29	.021	.020	1.21
Endosulfan I	19.38	19.32	19.46	.021	.020	2.60
Dieldrin	20.63	20.57	20.71	.041	.040	3.61
Endrin	22.1	22.05	22.19	.040	.040	5.88
4,4'-DDD	22.57	22.51	22.65	.042	.040	3.84
4,4'-DDT	23.77	23.71	23.85	.039	.040	11.60
Methoxychlor	27.51	27.46	27.60	.193	.200	1.43
Tetrachloro-m-xylene	8.36	8.32	8.42	.021	.020	1.86
Decachlorobiphenyl	36.09	36.03	36.23	.039	.040	1.07

EPA Sample No.(INDB): INDBF2 Date Analyzed : 7/6/94

Lab Sample ID (INDB): INDBF2 Time Analyzed : 11.12

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	13.21	13.17	13.27	.021	.020	1.77
delta-BHC	14.74	14.70	14.80	.021	.020	16.0
Aldrin	15.60	15.56	15.66	.021	.020	5.94
Heptachlor epoxide	17.93	17.88	18.02	.021	.020	1.30
4,4'-DDE	20.33	20.27	20.41	.042	.040	2.47
Endosulfan II	22.84	22.78	22.92	.042	.040	4.86
Endosulfan sulfate	24.64	24.59	24.73	.042	.040	3.41
Endrin ketone	28.13	28.08	28.22	.042	.040	.29
Endrin aldehyde	24.16	24.10	24.24	.042	.040	5.20
alpha-Chlordane	19.27	19.21	19.33	.021	.020	2.77
gamma-Chlordane	18.61	18.55	18.69	.021	.020	1.55
Tetrachloro-m-xylene	8.36	8.32	8.42	.021	.020	1.05
Decachlorobiphenyl	36.08	36.03	36.23	.040	.040	0

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ASC Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: C66017

GC Column: DB5 ID: 0.53 (mm) Init. Calib. Date(s): 7/1/94 7/2/94

EPA Sample No.(PIBLK): PIBLKR4 Date Analyzed : 7/6/94

Lab Sample ID (PIBLK): PIBLKR4 Time Analyzed : 06:38

EPA Sample No.(PEM): PEMR3 Date Analyzed : 7/6/94

Lab Sample ID (PEM): PEMR3 Time Analyzed : 07:24

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	11.28	11.24	11.34	.009	.010	85.9
beta-BHC	12.17	12.13	12.23	.011	.010	106
gamma-BHC (Lindane)	12.58	12.54	12.64	.008	.010	80.3
Endrin	21.93	21.88	22.02	.055	.050	111
4,4'-DDT	23.81	23.83	23.97	.114	.100	114
Methoxychlor	26.03	25.97	26.11	.241	.250	96.4

4,4'-DDT % breakdown (1): 4.22 Endrin % breakdown (1): 0.00

Combined % breakdown (1): 4.22

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ASC Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: Cdel7

GC Column: DB5 ID: 0.53 (mm) Init. Calib. Date(s): 7/1/94 7/2/94

EPA Sample No.(PIBLK): PIBLKB5 Date Analyzed : 7/6/94

Lab Sample ID (PIBLK): PIBLKB5 Time Analyzed : 10:26

EPA Sample No.(INDA): INDAB2 Date Analyzed : 7/6/94

Lab Sample ID (INDA): INDAB2 Time Analyzed : 11:12

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	11.28	11.24	11.34	.020	.020	19.4
gamma-BHC (Lindane)	12.58	12.54	12.64	.021	.020	13.4
Heptachlor	15.51	15.47	15.57	.020	.020	4.14
Endosulfan I	20.01	19.93	20.09	.020	.020	5.05
Dieldrin	21.08	21.32	21.16	.041	.040	3.91
Endrin	21.94	21.90	22.02	.040	.040	6.64
4,4'-DDD	23.39	23.23	23.47	.042	.040	4.69
4,4'-DDT	23.89	23.83	23.97	.038	.040	13.5
Methoxychlor	26.03	25.97	26.11	.100	.200	1.53
Tetrachloro-m-xylene	9.10	9.06	9.16	.020	.020	1.42
Decachlorobiphenyl	36.86	36.78	36.95	.041	.040	7.30

EPA Sample No.(INDB): INDBB2 Date Analyzed : 7/6/94

Lab Sample ID (INDB): INDBB2 Time Analyzed : 11:57

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	12.17	12.13	12.23	.021	.020	.98
delta-BHC	13.63	13.58	13.68	.021	.020	18.3
Aldrin	16.98	16.94	17.04	.021	.020	7.56
Heptachlor epoxide	18.50	18.44	18.58	.021	.020	.78
4,4'-DDE	20.72	20.66	20.80	.038	.040	14.2
Endosulfan II	22.34	22.28	22.42	.042	.040	3.22
Endosulfan sulfate	23.83	23.77	23.91	.039	.040	1.71
Endrin ketone	25.78	25.72	25.86	.041	.040	5.03
Endrin aldehyde	22.90	22.84	22.98	.041	.040	4.49
alpha-Chlordane	19.96	19.90	20.04	.021	.020	.81
gamma-Chlordane	19.44	19.38	19.52	.021	.020	.50
Tetrachloro-m-xylene	9.20	9.16	9.26	.021	.020	.03
Decachlorobiphenyl	36.86	36.78	36.98	.042	.040	.04

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ASC Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: C0617

GC Column: DB608 ID: 0.53 (mm) Init. Calib. Date(s): 7/1/94 7/2/94

EPA Sample No.(PIBLK): PIBLKF6 Date Analyzed : 7/7/94

Lab Sample ID (PIBLK): PIBLKF6 Time Analyzed : 07:09

EPA Sample No.(PEM): PEM1F4 Date Analyzed : 7/7/94

Lab Sample ID (PEM): PEM1F4 Time Analyzed : 07:55

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	11.25	11.20	11.30	.009	.010	86.6
beta-BHC	13.22	13.17	13.27	.010	.010	103
gamma-BHC (Lindane)	12.90	12.85	12.95	.008	.010	82.6
Endrin	22.12	22.05	22.19	.052	.050	105
4,4'-DDT	23.77	23.71	23.85	.110	.100	110
Methoxychlor	27.51	27.46	27.60	.205	.250	82.0

4,4'-DDT % breakdown (1): 4.50 Endrin % breakdown (1): 8.81

Combined % breakdown (1): 13.3

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ASC Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: C6617

GC Column: DB608 ID: 0.53 (mm) Init. Calib. Date(s): 7/1/94 7/2/94

EPA Sample No.(PIBLK): PIBLKF7 Date Analyzed : 7/7/94

Lab Sample ID (PIBLK): PIBLKF7 Time Analyzed : 14:36

EPA Sample No.(INDA): INDAF3 Date Analyzed : 7/7/94

Lab Sample ID (INDA): INDAF3 Time Analyzed : 15:21

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	11.25	11.20	11.30	.021	.020	19.3
gamma-BHC (Lindane)	12.90	12.85	12.95	.020	.020	13.5
Heptachlor	14.24	14.19	14.29	.021	.020	1.42
Endosulfan I	19.38	19.32	19.46	.021	.020	2.74
Dieldrin	20.63	20.57	20.71	.041	.040	4.28
Endrin	22.12	22.05	22.19	.041	.040	5.27
4,4'-DDD	22.58	22.51	22.65	.042	.040	5.76
4,4'-DDT	23.78	23.71	23.85	.039	.040	11.6
Methoxychlor	27.52	27.46	27.60	.191	.200	.06
Tetrachloro-m-xylene	8.37	8.32	8.42	.021	.020	1.28
Decachlorobiphenyl	36.12	36.03	36.23	.039	.040	1.31

EPA Sample No.(INDB): INDBF3 Date Analyzed : 7/7/94

Lab Sample ID (INDB): INDBF3 Time Analyzed : 16:07

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	13.22	13.17	13.27	.020	.020	1.60
delta-BHC	14.75	14.70	14.80	.020	.020	19.5
Aldrin	15.61	15.56	15.66	.020	.020	9.49
Heptachlor epoxide	17.95	17.88	18.02	.020	.020	1.54
4,4'-DDE	20.33	20.27	20.41	.040	.040	6.28
Endosulfan II	22.85	22.78	22.92	.041	.040	1.93
Endosulfan sulfate	24.66	24.59	24.73	.040	.040	.49
Endrin ketone	28.14	28.08	28.22	.040	.040	3.36
Endrin aldehyde	24.17	24.10	24.24	.040	.040	1.28
alpha-Chlordane	19.28	19.21	19.35	.020	.020	.05
gamma-Chlordane	18.62	18.55	18.69	.020	.020	1.87
Tetrachloro-m-xylene	8.37	8.32	8.42	.020	.020	.01
Decachlorobiphenyl	36.12	36.03	36.23	.039	.040	.03

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ASC Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: C6017

GC Column: DB5 ID: 0.53 (mm) Init. Calib. Date(s): 7/1/94 7/2/94

EPA Sample No.(PIBLK): PIBLKR6 Date Analyzed : 7/7 94

Lab Sample ID (PIBLK): PIBLKR6 Time Analyzed : 07.09

EPA Sample No.(PEM): PEMR4 Date Analyzed : 7/7/94

Lab Sample ID (PEM): PEMR4 Time Analyzed : 0755

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	11.30	11.24	11.34	.009	.010	85.2
beta-BHC	12.19	12.13	12.23	.011	.010	105
gamma-BHC (Lindane)	12.59	12.54	12.64	.008	.010	81.7
Endrin	21.95	21.83	22.02	.054	.050	108
4,4'-DDT	23.90	23.83	23.97	.109	.100	109
Methoxychlor	26.04	25.97	26.11	.230	.250	92

4,4'-DDT % breakdown (1): 0.00 Endrin % breakdown (1): 0.00

Combined % breakdown (1): 0.00

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ASC Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: C16617

GC Column: DB5 ID: .53 (mm) Init. Calib. Date(s): 7/1/94 7/2/94

EPA Sample No.(PIBLK): PIBLK7 Date Analyzed : 7/7/94

Lab Sample ID (PIBLK): PIBLK7 Time Analyzed : 15:21

EPA Sample No.(INDA): INDAR3 Date Analyzed : 7/7/94

Lab Sample ID (INDA): INDAR3 Time Analyzed : 16:07

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	11.29	11.24	11.34	.030	.030	19.3
gamma-BHC (Lindane)	12.59	12.54	12.64	.030	.030	13.7
Heptachlor	15.52	15.47	15.57	.030	.020	4.18
Endosulfan I	20.03	19.98	20.09	.020	.020	4.52
Dieldrin	21.10	21.52	21.16	.041	.040	3.63
Endrin	21.96	21.88	22.02	.040	.040	6.63
4,4'-DDD	22.41	22.33	22.47	.042	.040	4.33
4,4'-DDT	23.91	23.83	23.97	.039	.040	12.8
Methoxychlor	26.05	25.97	26.11	.186	.200	.43
Tetrachloro-m-xylene	9.71	9.66	9.76	.021	.020	1.71
Decachlorobiphenyl	36.89	36.78	36.98	.041	.040	6.71

EPA Sample No.(INDB): INDBR3 Date Analyzed : 7/7/94

Lab Sample ID (INDB): INDBR3 Time Analyzed : 16.52

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	12.19	12.13	12.23	.020	.020	1.40
delta-BHC	13.64	13.58	13.68	.021	.020	20.5
Aldrin	16.99	16.94	17.04	.021	.020	9.00
Heptachlor epoxide	18.52	18.47	18.58	.020	.020	3.26
4,4'-DDE	20.73	20.66	20.80	.040	.040	9.97
Endosulfan II	22.36	22.28	22.42	.041	.040	.56
Endosulfan sulfate	23.84	23.77	23.91	.040	.040	2.57
Endrin ketone	25.80	25.72	25.86	.040	.040	1.59
Endrin aldehyde	22.92	22.84	22.98	.040	.040	.83
alpha-Chlordane	19.17	19.90	20.04	.020	.020	2.31
gamma-Chlordane	19.46	19.38	19.52	.020	.020	2.02
Tetrachloro-m-xylene	9.72	9.66	9.76	.020	.020	.01
Decachlorobiphenyl	36.90	36.78	36.98	.041	.040	.02

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

Analytical Services Corp.

ANALYTICAL REPORT

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

Attn: Kent Geis
Bill Perry

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

Sample(s): C6627

Sample Type(s): Solid

Analysis Performed: Test Bulk and Organics

Date Sample Received: July 18, 1994

Date Order Received: July 18, 1994

Joblink(s): 616230

Reviewed and Approved by: Thomas E. Gran, Ph.D., Vice President *Date:* 7-20-94

16406 U.S. Route 224 East ■ P.O. Box 1404 ■ Findlay, Ohio 45839-1404 ■ 419-423-3526

PROJECT NARRATIVE

The following items relate to the samples and analytical data contained in this report.

- All sample results are reported on an as received "wet weight" basis.
- Note any and all comments at the bottom of the tables in Appendix B and/or Appendix C.
- **ASC** will retain samples for a maximum of thirty (30) days after completion of the analysis, samples will be held for a longer period of time, if appropriate arrangements are made in advance. A nominal disposal charge of $5.00/ sample will be imposed for unreturned samples.

APPENDIX A

DATA SUMMARY REPORT

NOTE: The Tentatively Identified Volatile (GC/MS) Screen result(s), if applicable, is included in Appendix B.

DATA SUMMARY REPORT

DATE: 07/19/94

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: **C6627**
ASC Sample Number: JN0316
Sample Date: 940718
Facility Code: 015226N

Parameters	Units	
Total Pesticide Analysis, GC, (GS04)		
Aldrin	mg/kg	<3320
Alpha-BHC	mg/kg	<3320
Beta-BHC	mg/kg	<3320
Chlordane	mg/kg	<16600
4,4'-DDD	mg/kg	<3320
4,4'-DDE	mg/kg	<3320
4,4'-DDT	mg/kg	32200
Delta-BHC	mg/kg	<3320
Dieldrin	mg/kg	<3320
Endosulfan sulfate	mg/kg	<3320
Endosulfan I	mg/kg	<3320
Endosulfan II	mg/kg	<3320
Endrin	mg/kg	<3320
Endrin aldehyde	mg/kg	<3320
Endrin ketone	mg/kg	<3320
Gamma-BHC	mg/kg	<3320
Heptachlor	mg/kg	<3320
Heptachlor epoxide	mg/kg	<3320
Methoxychlor	mg/kg	<3320
Toxaphene	mg/kg	<66400

APPENDIX B

QUANTITATIVE RESULTS

CONVENTIONAL DATA

Test Bulking Results

Facility: 15226N
Sample Identifier: C6627
ASC Sample Number: JN0316

Test Bulking Parameters	Result
Date of Test Bulk:	7/18/94
Samples Bulked:	18, 19, 21, 22, 23, 24, 25, 26, 32, 43, 63, 72, 74, 76, 77, 78, 80
Temperature Rise:	< 2.0°C
Gas Evolved:	None observed
Precipitate:	None observed
Gelling or Solidification:	None observed

TOTAL PESTICIDE ANALYSIS, GC, (GS04)

0006

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	015226N	C6627	JN0316

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aldrin	ND	3320	ND	Q2P40970
Alpha-BHC	ND	3320	ND	Q2P40970
Beta-BHC	ND	3320	ND	Q2P40970
Chlordane	ND	16600	ND	Q2P40970
4,4'-DDD	ND	3320	ND	Q2P40970
4,4'-DDE	ND	3320	ND	Q2P40970
4,4'-DDT	32200	3320	.062	Q2P40970
Delta-BHC	ND	3320	ND	Q2P40970
Dieldrin	ND	3320	ND	Q2P40970
Endosulfan sulfate	ND	3320	ND	Q2P40970
Endosulfan I	ND	3320	ND	Q2P40970
Endosulfan II	ND	3320	ND	Q2P40970
Endrin	ND	3320	ND	Q2P40970
Endrin aldehyde	ND	3320	ND	Q2P40970
Endrin ketone	ND	3320	ND	Q2P40970
Gamma-BHC	ND	3320	ND	Q2P40970
Heptachlor	ND	3320	ND	Q2P40970
Heptachlor epoxide	ND	3320	ND	Q2P40970
Methoxychlor	ND	3320	ND	Q2P40970
Toxaphene	ND	66400	ND	Q2P40970

- Matrix spike recoveries are not available due to the dilution of the QC matrix spike sample extracts during analysis.

APPENDIX C

QUALITY ASSURANCE DATA

SUMMARY OF ANALYTICAL METHODOLOGY

ASC Joblink # 616230

	REFERENCE	TITLE
8080	SW-846	Organochlorine Pesticides and/or PCBs

METHODOLOGY REFERENCES

ASTM	*American Society for Testing and Materials*, 1985 edition.
CAWW	*Methods for Chemical Analysis of Water and Wastes*, April 1979 and Updated #1 March 1983.
CLP	*USEPA Contract Laboratory Program*, Document #OLMO1.0, updates December 1990 #OLMO1.1 and February 1991 #OLMO1.1.1.
EPA-500	*USEPA Methods for the Determination of Organic Compounds in Drinking Water,* EPA-600/4-88/039 December 1988.
EPA-600	*USEPA Test Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater*, EPA-600/4-82-057 July 1982.
NIOSH	*National Institute for Occupational Safety and Health*, 3rd edition, 1984.
SMEWW	*Standard Methods for the Examination of Water and Wastewater*, 17th edition, 1989.
STOA	*Spot Tests In Organic Analysis*, 7th edition, 1966.
SW-846	*Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods*, 3rd edition, September 1986 and Update #1 July 1992.
(1)	This method was modified to incorporate the use of Boron Trifluoride (BF3) as the derivatizing reagent according to Method 6640 in *SMEWW*, 17th edition, 1989.
Title 22	*Waste Extraction Test*, Title 22, Section 66261.126 Appendix 2 of the California Administrative Code, May 1991.

ASC Certifications

State	Agency	Certification #
Alabama	ADEM	40830
California	CADOH	1178
Colorado	CODOH	OH113
Delaware	DEHSS	OH113
Kansas	KSDHE	E-202 & E-1173
Louisiana	LADOHH	92-10
Maryland	MDDHMH	210
Massachusetts	MADEP	M-OH113
New Jersey	NJDEPE	74603
New York	NYDOH	10712
North Carolina	NCDEM	392
Ohio	OHEPA	OH113
Oklahoma	OKDEQ	9216
Pennsylvania	PADER	68-450
South Carolina	SCDEHNR	92002
Tennessee	TNDOH/TNDEC	2978
Virginia	VADGS	00011
Washington	WADOE	C154
Wisconsin	WIDNR	999037160

Validated by:

- o US Army Corps of Engineers . . . . . Chemical Analysis in Various Matrices

Approvals:

- o Chemical Waste Management . . . . . Waste Characterization Analysis
- o Envirosafe . . . . . Waste Characterization Analysis
- o USDA . . . . . Permit for Importing Soils
- o Florida DEP . . . . . Quality Assurance Plan #930034G
- o Naval Facilities Engineering Service Center . . . . . Chemical Analysis in Various Matrices

REPORT KEY

mg/kg	=	milligram per kilogram (ppm)
Mg/m^3	=	milligram per cubic meter
ug/kg	=	microgram per kilogram (ppb)
mg/L	=	milligram per liter (ppm)
ug/L	=	microgram per liter (ppb)
mg/W	=	milligram per wipe
ug/W	=	microgram per wipe
mg/SMP	=	milligram per sample
ug/SMP	=	microgram per sample
um/cm	=	microMho per centimeter
pCi/l	=	picocurie per liter
gm/cc	=	grams per cubic centimeter
ppm	=	parts per million
ppb	=	parts per billion
ND	=	Not detected at or above stated detection limit
<	=	less than
>	=	greater than
%	=	percent
BTU/lb	=	British Thermal Units per pound
Deg. C	=	Degrees Celsius
n/a	=	not applicable
Unk	=	unknown
std	=	result is relative to standard pH units
CV	=	Conventionals
IR	=	Infrared Spectrophotometric
GC	=	Gas Chromatograph Instrument
GC/MS	=	Gas Chromatography/Mass Spectrometer Instrument
GRO	=	Gasoline Range Organics
DRO	=	Diesel Range Organics
PCB	=	Polychlorinated Biphenyls (PCBs)
EP TOX	=	Extraction Procedure Toxicity
TCLP	=	Toxicity Characteristic Leaching Procedure
RCRA	=	Resource Conservation and Recovery Act

QUALITY ASSURANCE DATA

TOTAL PESTICIDE ANALYSIS, GC, (GS04)

0012

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	Batch Number
Aldrin	ND	83	-	-	-	Q2P40970
Alpha-BHC	ND	81	-	-	-	Q2P40970
Beta-BHC	ND	86	-	-	-	Q2P40970
Chlordane	ND	92	-	-	-	Q2P40970
4,4'-DDD	ND	97	-	-	-	Q2P40970
4,4'-DDE	ND	94	-	-	-	Q2P40970
4,4'-DDT	.062	109	-	-	-	Q2P40970
Delta-BHC	ND	96	-	-	-	Q2P40970
Dieldrin	ND	93	-	-	-	Q2P40970
Endosulfan sulfate	ND	99	-	-	-	Q2P40970
Endosulfan I	ND	100	-	-	-	Q2P40970
Endosulfan II	ND	95	-	-	-	Q2P40970
Endrin	ND	93	-	-	-	Q2P40970
Endrin aldehyde	ND	79	-	-	-	Q2P40970
Endrin ketone	ND	95	-	-	-	Q2P40970
Gamma-BHC	ND	83	-	-	-	Q2P40970
Heptachlor	ND	85	-	-	-	Q2P40970
Heptachlor epoxide	ND	90	-	-	-	Q2P40970
Methoxychlor	ND	108	-	-	-	Q2P40970

QUALITY ASSURANCE DATA
SURROGATE SUMMARY REPORT

0013

SURROGATE ID	B816	A500	# OUT
QC BATCH: Q2P40970 **Solid (Pesticide compounds by GC)**			
SAMPLE ID			
BLANK	53	112	0
BLANK SPIKE	66	113	0
C6627	0 D	0 D	0
QC LIMITS	(30-130)	(30-130)	

SURROGATE ID

B816 = 2,4,5,6-Tetrachloro-m-xylene
A500 = Decachlorobiphenyl

* Values outside of method quality control limits
D Surrogate diluted out

It is ASC's laboratory policy to allow one surrogate per sample fraction (acid, base-neutral or pesticide) to exceed the stated QC limits. This policy is based upon the USEPA SOW for the Contract Laboratory Program (CLP).

APPENDIX D

CHAIN-OF-CUSTODY RECORD(S)

Analytical Services Corp.

ANALYTICAL REPORT

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

Attn: Kent Geis
Tom Mears

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

Sample(s): CLJ-WCS001, CLJ-WCS002 and CLJ-WCS005 through CLJ-WCS012

Sample Type(s): Solid

Analysis Performed: Organics

Date Sample Received: September 1, 1994

Date Order Received: September 1, 1994

Joblink(s): 616536

Reviewed and Approved by: _____ *Date:* September 8, 1994
Thomas E. Gran, Ph.D., Vice President

16406 U.S. Route 224 East ■ P.O. Box 1404 ■ Findlay, Ohio 45839-1404 ■ 419-423-3526

PROJECT NARRATIVE

The following items relate to the samples and analytical data contained in this report.

- All sample results are reported on a "dry weight" basis.
- The identity of all pesticide compounds were confirmed by secondary column analysis.
- Note any and all comments at the bottom of the tables in Appendix B and/or Appendix C.
- **ASC** will retain samples for a maximum of thirty (30) days after completion of the analysis, samples will be held for a longer period of time, if appropriate arrangements are made in advance. A nominal disposal charge of $5.00/ sample will be imposed for unreturned samples.

APPENDIX A

DATA SUMMARY REPORT

NOTE: The Tentatively Identified Volatile (GC/MS) Screen result(s), if applicable, is included in Appendix B.

DATA SUMMARY REPORT

DATE: 09/07/94

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID:		CLJ-WCS001	CLJ-WCS002	CLJ-WCS005	CLJ-WCS006	CLJ-WCS007	CLJ-WCS008	CLJ-WCS009	CLJ-WCS010
ASC Sample Number:		JN1786	JN1787	JN1788	JN1789	JN1790	JN1791	JN1792	JN1793
Sample Date:		940824	940824	940826	940826	940826	940826	940826	940826
Facility Code:		015226N	015226N	015226N	015226N	015226N	015226N	015226N	015226N
Parameters	Units								
Target Compound List Pesticide and PCB Analysis, GC, (GS25)									
Aldrin	mg/kg	<.020	<.018	<.018	<.018	<.019	<.018	<.019	<.020
Alpha-BHC	mg/kg	<.020	<.018	<.018	<.018	<.019	<.018	<.019	<.020
Beta-BHC	mg/kg	<.020	<.018	<.018	<.018	<.019	<.018	<.019	<.020
alpha-Chlordane	mg/kg	<.020	<.018	.019	.028	.022	<.018	.043	<.020
gamma-Chlordane	mg/kg	<.020	<.018	<.018	<.018	<.019	<.018	<.019	<.020
4,4'-DDD	mg/kg	1.42	1.92	18.0	18.2	21.1	1.28	47.7	2.23
4,4'-DDE	mg/kg	.173	.142	.401	1.08	.316	.034	.694	.141
4,4'-DDT	mg/kg	2.65	7.46	39.9	32.6	43.0	3.82	117	5.21
Delta-BHC	mg/kg	<.020	<.018	<.018	<.018	<.019	<.018	<.019	<.020
Dieldrin	mg/kg	<.020	.020	.048	.050	.054	<.018	.061	<.020
Endosulfan sulfate	mg/kg	<.020	<.018	<.018	<.018	<.019	<.018	<.019	<.020
Endosulfan I	mg/kg	<.020	<.018	<.018	<.018	<.019	<.018	<.019	<.020
Endosulfan II	mg/kg	<.020	<.018	<.018	<.018	<.019	<.018	<.019	<.020
Endrin	mg/kg	<.020	.027	.121	.185	.061	<.018	.326	<.020
Endrin ketone	mg/kg	<.020	<.018	<.018	<.018	<.019	<.018	<.019	<.020
Endrin aldehyde	mg/kg	<.020	<.018	<.018	<.018	<.019	<.018	<.019	<.020
Gamma-BHC	mg/kg	<.020	<.018	<.018	<.018	<.019	<.018	<.019	<.020
Heptachlor	mg/kg	<.020	<.018	<.018	<.018	<.019	<.018	<.019	<.020
Heptachlor epoxide	mg/kg	<.020	<.018	<.018	<.018	<.019	<.018	.093	<.020
Methoxychlor	mg/kg	<.020	<.018	<.018	<.018	<.019	<.018	<.019	<.020
Toxaphene	mg/kg	<.396	<.362	<.360	<.363	<.381	<.350	<.379	<.401
Aroclor 1016	mg/kg	<.198	<.181	<.180	<.181	<.190	<.175	<.189	<.200
Aroclor 1221	mg/kg	<.198	<.181	<.180	<.181	<.190	<.175	<.189	<.200
Aroclor 1232	mg/kg	<.198	<.181	<.180	<.181	<.190	<.175	<.189	<.200
Aroclor 1242	mg/kg	<.198	<.181	<.180	<.181	<.190	<.175	<.189	<.200
Aroclor 1248	mg/kg	<.198	<.181	<.180	<.181	<.190	<.175	<.189	<.200
Aroclor 1254	mg/kg	<.198	<.181	<.180	<.181	<.190	<.175	<.189	<.200
Aroclor 1260	mg/kg	<.198	<.181	<.180	<.181	<.190	<.175	<.189	<.200

DATA SUMMARY REPORT

DATE: 09/07/94

Company: OHM REMEDIATION SERVICES CORPORATION

	Sample Point ID:	**CLJ-WCS011**	**CLJ-WCS012**
	ASC Sample Number:	JN1794	JN1795
	Sample Date:	940826	940826
	Facility Code:	015226N	015226N
Parameters	Units		
Target Compound List Pesticide and PCB Analysis, GC, (GS25)			
Aldrin	mg/kg	<.019	<.019
Alpha-BHC	mg/kg	<.019	<.019
Beta-BHC	mg/kg	<.019	<.019
alpha-Chlordane	mg/kg	<.019	<.019
gamma-Chlordane	mg/kg	<.019	<.019
4,4'-DDD	mg/kg	.203	4.55
4,4'-DDE	mg/kg	.033	.234
4,4'-DDT	mg/kg	.129	18.1
Delta-BHC	mg/kg	<.019	<.019
Dieldrin	mg/kg	<.019	.031
Endosulfan sulfate	mg/kg	<.019	<.019
Endosulfan I	mg/kg	<.019	<.019
Endosulfan II	mg/kg	<.019	<.019
Endrin	mg/kg	<.019	.086
Endrin ketone	mg/kg	<.019	<.019
Endrin aldehyde	mg/kg	<.019	<.019
Gamma-BHC	mg/kg	<.019	<.019
Heptachlor	mg/kg	<.019	<.019
Heptachlor epoxide	mg/kg	<.019	.025
Methoxychlor	mg/kg	<.019	<.019
Toxaphene	mg/kg	<.387	<.381
Aroclor 1016	mg/kg	<.194	<.191
Aroclor 1221	mg/kg	<.194	<.191
Aroclor 1232	mg/kg	<.194	<.191
Aroclor 1242	mg/kg	<.194	<.191
Aroclor 1248	mg/kg	<.194	<.191
Aroclor 1254	mg/kg	<.194	<.191
Aroclor 1260	mg/kg	<.194	<.191

APPENDIX B

QUANTITATIVE RESULTS

TARGET COMPOUND LIST PESTICIDE AND PCB ANALYSIS, GC, (GS25)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	015226N	CLJ-WCS001	JN1786

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aldrin	ND	.020	ND	N2P41215
Alpha-BHC	ND	.020	ND	N2P41215
Beta-BHC	ND	.020	ND	N2P41215
alpha-Chlordane	ND	.020	ND	N2P41215
gamma-Chlordane	ND	.020	ND	N2P41215
4,4'-DDD	1.42	.198	ND	N2P41215
4,4'-DDE	.173	.020	ND	N2P41215
4,4'-DDT	2.65	.198	ND	N2P41215
Delta-BHC	ND	.020	ND	N2P41215
Dieldrin	ND	.020	ND	N2P41215
Endosulfan sulfate	ND	.020	ND	N2P41215
Endosulfan I	ND	.020	ND	N2P41215
Endosulfan II	ND	.020	ND	N2P41215
Endrin	ND	.020	ND	N2P41215
Endrin ketone	ND	.020	ND	N2P41215
Endrin aldehyde	ND	.020	ND	N2P41215
Gamma-BHC	ND	.020	ND	N2P41215
Heptachlor	ND	.020	ND	N2P41215
Heptachlor epoxide	ND	.020	ND	N2P41215
Methoxychlor	ND	.020	ND	N2P41215
Toxaphene	ND	.396	ND	N2P41215
Aroclor 1016	ND	.198	ND	N2P41215
Aroclor 1221	ND	.198	ND	N2P41215
Aroclor 1232	ND	.198	ND	N2P41215
Aroclor 1242	ND	.198	ND	N2P41215
Aroclor 1248	ND	.198	ND	N2P41215
Aroclor 1254	ND	.198	ND	N2P41215
Aroclor 1260	ND	.198	ND	N2P41215

TARGET COMPOUND LIST PESTICIDE AND PCB ANALYSIS, GC, (GS25)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	015226N	CLJ-WCS002	JN1787

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aldrin	ND	.018	ND	N2P41215
Alpha-BHC	ND	.018	ND	N2P41215
Beta-BHC	ND	.018	ND	N2P41215
alpha-Chlordane	ND	.018	ND	N2P41215
gamma-Chlordane	ND	.018	ND	N2P41215
4,4'-DDD	1.92	.905	ND	N2P41215
4,4'-DDE	.142	.018	ND	N2P41215
4,4'-DDT	7.46	.905	ND	N2P41215
Delta-BHC	ND	.018	ND	N2P41215
Dieldrin	.020	.018	ND	N2P41215
Endosulfan sulfate	ND	.018	ND	N2P41215
Endosulfan I	ND	.018	ND	N2P41215
Endosulfan II	ND	.018	ND	N2P41215
Endrin	.027	.018	ND	N2P41215
Endrin ketone	ND	.018	ND	N2P41215
Endrin aldehyde	ND	.018	ND	N2P41215
Gamma-BHC	ND	.018	ND	N2P41215
Heptachlor	ND	.018	ND	N2P41215
Heptachlor epoxide	ND	.018	ND	N2P41215
Methoxychlor	ND	.018	ND	N2P41215
Toxaphene	ND	.362	ND	N2P41215
Aroclor 1016	ND	.181	ND	N2P41215
Aroclor 1221	ND	.181	ND	N2P41215
Aroclor 1232	ND	.181	ND	N2P41215
Aroclor 1242	ND	.181	ND	N2P41215
Aroclor 1248	ND	.181	ND	N2P41215
Aroclor 1254	ND	.181	ND	N2P41215
Aroclor 1260	ND	.181	ND	N2P41215

TARGET COMPOUND LIST PESTICIDE AND PCB ANALYSIS, GC, (GS25)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	015226N	CLJ-WCS005	JN1788

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aldrin	ND	.018	ND	N2P41215
Alpha-BHC	ND	.018	ND	N2P41215
Beta-BHC	ND	.018	ND	N2P41215
alpha-Chlordane	.019	.018	ND	N2P41215
gamma-Chlordane	ND	.018	ND	N2P41215
4,4'-DDD	18.0	4.50	ND	N2P41215
4,4'-DDE	.401	.018	ND	N2P41215
4,4'-DDT	39.9	4.50	ND	N2P41215
Delta-BHC	ND	.018	ND	N2P41215
Dieldrin	.048	.018	ND	N2P41215
Endosulfan sulfate	ND	.018	ND	N2P41215
Endosulfan I	ND	.018	ND	N2P41215
Endosulfan II	ND	.018	ND	N2P41215
Endrin	.121	.018	ND	N2P41215
Endrin ketone	ND	.018	ND	N2P41215
Endrin aldehyde	ND	.018	ND	N2P41215
Gamma-BHC	ND	.018	ND	N2P41215
Heptachlor	ND	.018	ND	N2P41215
Heptachlor epoxide	ND	.018	ND	N2P41215
Methoxychlor	ND	.018	ND	N2P41215
Toxaphene	ND	.360	ND	N2P41215
Aroclor 1016	ND	.180	ND	N2P41215
Aroclor 1221	ND	.180	ND	N2P41215
Aroclor 1232	ND	.180	ND	N2P41215
Aroclor 1242	ND	.180	ND	N2P41215
Aroclor 1248	ND	.180	ND	N2P41215
Aroclor 1254	ND	.180	ND	N2P41215
Aroclor 1260	ND	.180	ND	N2P41215

TARGET COMPOUND LIST PESTICIDE AND PCB ANALYSIS, GC, (GS25)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	015226N	CLJ-WCS006	JN1789

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aldrin	ND	.018	ND	N2P41215
Alpha-BHC	ND	.018	ND	N2P41215
Beta-BHC	ND	.018	ND	N2P41215
alpha-Chlordane	.028	.018	ND	N2P41215
gamma-Chlordane	ND	.018	ND	N2P41215
4,4'-DDD	18.2	9.06	ND	N2P41215
4,4'-DDE	1.08	.181	ND	N2P41215
4,4'-DDT	32.6	9.06	ND	N2P41215
Delta-BHC	ND	.018	ND	N2P41215
Dieldrin	.050	.018	ND	N2P41215
Endosulfan sulfate	ND	.018	ND	N2P41215
Endosulfan I	ND	.018	ND	N2P41215
Endosulfan II	ND	.018	ND	N2P41215
Endrin	.185	.018	ND	N2P41215
Endrin ketone	ND	.018	ND	N2P41215
Endrin aldehyde	ND	.018	ND	N2P41215
Gamma-BHC	ND	.018	ND	N2P41215
Heptachlor	ND	.018	ND	N2P41215
Heptachlor epoxide	ND	.018	ND	N2P41215
Methoxychlor	ND	.018	ND	N2P41215
Toxaphene	ND	.363	ND	N2P41215
Aroclor 1016	ND	.181	ND	N2P41215
Aroclor 1221	ND	.181	ND	N2P41215
Aroclor 1232	ND	.181	ND	N2P41215
Aroclor 1242	ND	.181	ND	N2P41215
Aroclor 1248	ND	.181	ND	N2P41215
Aroclor 1254	ND	.181	ND	N2P41215
Aroclor 1260	ND	.181	ND	N2P41215

TARGET COMPOUND LIST PESTICIDE AND PCB ANALYSIS, GC, (GS25)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	015226N	CLJ-WCS007	JN1790

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aldrin	ND	.019	ND	N2P41215
Alpha-BHC	ND	.019	ND	N2P41215
Beta-BHC	ND	.019	ND	N2P41215
alpha-Chlordane	.022	.019	ND	N2P41215
gamma-Chlordane	ND	.019	ND	N2P41215
4,4'-DDD	21.1	3.81	ND	N2P41215
4,4'-DDE	.316	.019	ND	N2P41215
4,4'-DDT	43.0	3.81	ND	N2P41215
Delta-BHC	ND	.019	ND	N2P41215
Dieldrin	.054	.019	ND	N2P41215
Endosulfan sulfate	ND	.019	ND	N2P41215
Endosulfan I	ND	.019	ND	N2P41215
Endosulfan II	ND	.019	ND	N2P41215
Endrin	.061	.019	ND	N2P41215
Endrin ketone	ND	.019	ND	N2P41215
Endrin aldehyde	ND	.019	ND	N2P41215
Gamma-BHC	ND	.019	ND	N2P41215
Heptachlor	ND	.019	ND	N2P41215
Heptachlor epoxide	ND	.019	ND	N2P41215
Methoxychlor	ND	.019	ND	N2P41215
Toxaphene	ND	.381	ND	N2P41215
Aroclor 1016	ND	.190	ND	N2P41215
Aroclor 1221	ND	.190	ND	N2P41215
Aroclor 1232	ND	.190	ND	N2P41215
Aroclor 1242	ND	.190	ND	N2P41215
Aroclor 1248	ND	.190	ND	N2P41215
Aroclor 1254	ND	.190	ND	N2P41215
Aroclor 1260	ND	.190	ND	N2P41215

TARGET COMPOUND LIST PESTICIDE AND PCB ANALYSIS, GC, (GS25)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	015226N	CLJ-WCS008	JN1791

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aldrin	ND	.018	ND	N2P41215
Alpha-BHC	ND	.018	ND	N2P41215
Beta-BHC	ND	.018	ND	N2P41215
alpha-Chlordane	ND	.018	ND	N2P41215
gamma-Chlordane	ND	.018	ND	N2P41215
4,4'-DDD	1.28	.350	ND	N2P41215
4,4'-DDE	.034	.018	ND	N2P41215
4,4'-DDT	3.82	.350	ND	N2P41215
Delta-BHC	ND	.018	ND	N2P41215
Dieldrin	ND	.018	ND	N2P41215
Endosulfan sulfate	ND	.018	ND	N2P41215
Endosulfan I	ND	.018	ND	N2P41215
Endosulfan II	ND	.018	ND	N2P41215
Endrin	ND	.018	ND	N2P41215
Endrin ketone	ND	.018	ND	N2P41215
Endrin aldehyde	ND	.018	ND	N2P41215
Gamma-BHC	ND	.018	ND	N2P41215
Heptachlor	ND	.018	ND	N2P41215
Heptachlor epoxide	ND	.018	ND	N2P41215
Methoxychlor	ND	.018	ND	N2P41215
Toxaphene	ND	.350	ND	N2P41215
Aroclor 1016	ND	.175	ND	N2P41215
Aroclor 1221	ND	.175	ND	N2P41215
Aroclor 1232	ND	.175	ND	N2P41215
Aroclor 1242	ND	.175	ND	N2P41215
Aroclor 1248	ND	.175	ND	N2P41215
Aroclor 1254	ND	.175	ND	N2P41215
Aroclor 1260	ND	.175	ND	N2P41215

TARGET COMPOUND LIST PESTICIDE AND PCB ANALYSIS, GC, (GS25)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	015226N	CLJ-WCS009	JN1792

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aldrin	ND	.019	ND	N2P41215
Alpha-BHC	ND	.019	ND	N2P41215
Beta-BHC	ND	.019	ND	N2P41215
alpha-Chlordane	.043	.019	ND	N2P41215
gamma-Chlordane	ND	.019	ND	N2P41215
4,4'-DDD	47.7	1.89	ND	N2P41215
4,4'-DDE	.694	.170	ND	N2P41215
4,4'-DDT	117	9.47	ND	N2P41215
Delta-BHC	ND	.019	ND	N2P41215
Dieldrin	.061	.019	ND	N2P41215
Endosulfan sulfate	ND	.019	ND	N2P41215
Endosulfan I	ND	.019	ND	N2P41215
Endosulfan II	ND	.019	ND	N2P41215
Endrin	.326	.019	ND	N2P41215
Endrin ketone	ND	.019	ND	N2P41215
Endrin aldehyde	ND	.019	ND	N2P41215
Gamma-BHC	ND	.019	ND	N2P41215
Heptachlor	ND	.019	ND	N2P41215
Heptachlor epoxide	.093	.019	ND	N2P41215
Methoxychlor	ND	.019	ND	N2P41215
Toxaphene	ND	.379	ND	N2P41215
Aroclor 1016	ND	.189	ND	N2P41215
Aroclor 1221	ND	.189	ND	N2P41215
Aroclor 1232	ND	.189	ND	N2P41215
Aroclor 1242	ND	.189	ND	N2P41215
Aroclor 1248	ND	.189	ND	N2P41215
Aroclor 1254	ND	.189	ND	N2P41215
Aroclor 1260	ND	.189	ND	N2P41215

TARGET COMPOUND LIST PESTICIDE AND PCB ANALYSIS, GC, (GS25)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	015226N	CLJ-WCS010	JN1793

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aldrin	ND	.020	ND	N2P41215
Alpha-BHC	ND	.020	ND	N2P41215
Beta-BHC	ND	.020	ND	N2P41215
alpha-Chlordane	ND	.020	ND	N2P41215
gamma-Chlordane	ND	.020	ND	N2P41215
4,4'-DDD	2.23	.200	ND	N2P41215
4,4'-DDE	.141	.020	ND	N2P41215
4,4'-DDT	5.21	.401	ND	N2P41215
Delta-BHC	ND	.020	ND	N2P41215
Dieldrin	ND	.020	ND	N2P41215
Endosulfan sulfate	ND	.020	ND	N2P41215
Endosulfan I	ND	.020	ND	N2P41215
Endosulfan II	ND	.020	ND	N2P41215
Endrin	ND	.020	ND	N2P41215
Endrin ketone	ND	.020	ND	N2P41215
Endrin aldehyde	ND	.020	ND	N2P41215
Gamma-BHC	ND	.020	ND	N2P41215
Heptachlor	ND	.020	ND	N2P41215
Heptachlor epoxide	ND	.020	ND	N2P41215
Methoxychlor	ND	.020	ND	N2P41215
Toxaphene	ND	.401	ND	N2P41215
Aroclor 1016	ND	.200	ND	N2P41215
Aroclor 1221	ND	.200	ND	N2P41215
Aroclor 1232	ND	.200	ND	N2P41215
Aroclor 1242	ND	.200	ND	N2P41215
Aroclor 1248	ND	.200	ND	N2P41215
Aroclor 1254	ND	.200	ND	N2P41215
Aroclor 1260	ND	.200	ND	N2P41215

TARGET COMPOUND LIST PESTICIDE AND PCB ANALYSIS, GC, (GS25)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	015226N	CLJ-WCS011	JN1794

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aldrin	ND	.019	ND	N2P41215
Alpha-BHC	ND	.019	ND	N2P41215
Beta-BHC	ND	.019	ND	N2P41215
alpha-Chlordane	ND	.019	ND	N2P41215
gamma-Chlordane	ND	.019	ND	N2P41215
4,4'-DDD	.203	.019	ND	N2P41215
4,4'-DDE	.033	.019	ND	N2P41215
4,4'-DDT	.129	.019	ND	N2P41215
Delta-BHC	ND	.019	ND	N2P41215
Dieldrin	ND	.019	ND	N2P41215
Endosulfan sulfate	ND	.019	ND	N2P41215
Endosulfan I	ND	.019	ND	N2P41215
Endosulfan II	ND	.019	ND	N2P41215
Endrin	ND	.019	ND	N2P41215
Endrin ketone	ND	.019	ND	N2P41215
Endrin aldehyde	ND	.019	ND	N2P41215
Gamma-BHC	ND	.019	ND	N2P41215
Heptachlor	ND	.019	ND	N2P41215
Heptachlor epoxide	ND	.019	ND	N2P41215
Methoxychlor	ND	.019	ND	N2P41215
Toxaphene	ND	.387	ND	N2P41215
Aroclor 1016	ND	.194	ND	N2P41215
Aroclor 1221	ND	.194	ND	N2P41215
Aroclor 1232	ND	.194	ND	N2P41215
Aroclor 1242	ND	.194	ND	N2P41215
Aroclor 1248	ND	.194	ND	N2P41215
Aroclor 1254	ND	.194	ND	N2P41215
Aroclor 1260	ND	.194	ND	N2P41215

TARGET COMPOUND LIST PESTICIDE AND PCB ANALYSIS, GC, (GS25)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	015226N	CLJ-WCS012	JN1795

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aldrin	ND	.019	ND	N2P41215
Alpha-BHC	ND	.019	ND	N2P41215
Beta-BHC	ND	.019	ND	N2P41215
alpha-Chlordane	ND	.019	ND	N2P41215
gamma-Chlordane	ND	.019	ND	N2P41215
4,4'-DDD	4.55	.859	ND	N2P41215
4,4'-DDE	.234	.019	ND	N2P41215
4,4'-DDT	18.1	.859	ND	N2P41215
Delta-BHC	ND	.019	ND	N2P41215
Dieldrin	.031	.019	ND	N2P41215
Endosulfan sulfate	ND	.019	ND	N2P41215
Endosulfan I	ND	.019	ND	N2P41215
Endosulfan II	ND	.019	ND	N2P41215
Endrin	.086	.019	ND	N2P41215
Endrin ketone	ND	.019	ND	N2P41215
Endrin aldehyde	ND	.019	ND	N2P41215
Gamma-BHC	ND	.019	ND	N2P41215
Heptachlor	ND	.019	ND	N2P41215
Heptachlor epoxide	.025	.019	ND	N2P41215
Methoxychlor	ND	.019	ND	N2P41215
Toxaphene	ND	.381	ND	N2P41215
Aroclor 1016	ND	.191	ND	N2P41215
Aroclor 1221	ND	.191	ND	N2P41215
Aroclor 1232	ND	.191	ND	N2P41215
Aroclor 1242	ND	.191	ND	N2P41215
Aroclor 1248	ND	.191	ND	N2P41215
Aroclor 1254	ND	.191	ND	N2P41215
Aroclor 1260	ND	.191	ND	N2P41215

APPENDIX C

QUALITY ASSURANCE DATA

SUMMARY OF ANALYTICAL METHODOLOGY

ASC Joblink # 616536

REFERENCE		TITLE
8080	SW-846	Organochlorine Pesticides and/or PCBs

METHODOLOGY REFERENCES

ASTM	*American Society for Testing and Materials*, 1985 edition.
CAWW	*Methods for Chemical Analysis of Water and Wastes*, April 1979 and Updated #1 March 1983.
CLP	*USEPA Contract Laboratory Program*, Document #OLMO1.0, updates December 1990 #OLMO1.1 and February 1991 #OLMO1.1.1.
EPA-500	*USEPA Methods for the Determination of Organic Compounds in Drinking Water,* EPA-600/4-88/039 December 1988.
EPA-600	*USEPA Test Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater*, EPA-600/4-82-057 July 1982.
NIOSH	*National Institute for Occupational Safety and Health*, 3rd edition, 1984.
SMEWW	*Standard Methods for the Examination of Water and Wastewater*, 17th edition, 1989.
STOA	*Spot Tests In Organic Analysis*, 7th edition, 1966.
SW-846	*Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods*, 3rd edition, September 1986 and Update #1 July 1992.
(1)	This method was modified to incorporate the use of Boron Trifluoride (BF3) as the derivatizing reagent according to Method 6640 in *SMEWW*, 17th edition, 1989.
Title 22	*Waste Extraction Test*, Title 22, Section 66261.126 Appendix 2 of the California Administrative Code, May 1991.

ASC Certifications

State	Agency	Certification #
Alabama	ADEM	40830
California	CADOH	1178
Colorado	CODOH	OH113
Delaware	DEHSS	OH113
Kansas	KSDHE	E-202 & E-1173
Louisiana	LADOHH	92-10
Maryland	MDDHMH	210
Massachusetts	MADEP	M-OH113
New Jersey	NJDEPE	74603
New York	NYDOH	10712
North Carolina	NCDEM	392
Ohio	OHEPA	OH113
Oklahoma	OKDEQ	9216
Pennsylvania	PADER	68-450
South Carolina	SCDEHNR	92002
Tennessee	TNDOH/TNDEC	2978
Virginia	VADGS	00011
Washington	WADOE	C154
Wisconsin	WIDNR	999037160

Validated by:

- o US Army Corps of Engineers ..... Chemical Analysis in Various Matrices

Approvals:

- o Chemical Waste Management ..... Waste Characterization Analysis
- o Envirosafe ..... Waste Characterization Analysis
- o USDA ..... Permit for Importing Soils
- o Florida DEP ..... Quality Assurance Plan #930034G
- o Naval Facilities Engineering Service Center ..... Chemical Analysis in Various Matrices

REPORT KEY

mg/kg	=	milligram per kilogram (ppm)
Mg/m^3	=	milligram per cubic meter
ug/kg	=	microgram per kilogram (ppb)
mg/L	=	milligram per liter (ppm)
ug/L	=	microgram per liter (ppb)
mg/W	=	milligram per wipe
ug/W	=	microgram per wipe
mg/SMP	=	milligram per sample
ug/SMP	=	microgram per sample
um/cm	=	microMho per centimeter
pCi/l	=	picocurie per liter
gm/cc	=	grams per cubic centimeter
ppm	=	parts per million
ppb	=	parts per billion
ND	=	Not detected at or above stated detection limit
<	=	less than
>	=	greater than
%	=	percent
BTU/lb	=	British Thermal Units per pound
Deg. C	=	Degrees Celsius
n/a	=	not applicable
Unk	=	unknown
std	=	result is relative to standard pH units
CV	=	Conventionals
IR	=	Infrared Spectrophotometric
GC	=	Gas Chromatograph Instrument
GC/MS	=	Gas Chromatography/Mass Spectrometer Instrument
GRO	=	Gasoline Range Organics
DRO	=	Diesel Range Organics
PCB	=	Polychlorinated Biphenyls (PCBs)
EP TOX	=	Extraction Procedure Toxicity
TCLP	=	Toxicity Characteristic Leaching Procedure
RCRA	=	Resource Conservation and Recovery Act

QUALITY ASSURANCE DATA

TARGET COMPOUND LIST PESTICIDE AND PCB ANALYSIS, GC, (GS25)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	Batch Number
Aldrin	ND	69	ND	125	18	N2P41215
Alpha-BHC	ND	63	ND	112	12	N2P41215
Beta-BHC	ND	77	ND	126	10	N2P41215
alpha-Chlordane	ND	87	ND	143	11	N2P41215
gamma-Chlordane	ND	85	ND	127	7	N2P41215
4,4'-DDD	ND	91	1.42	-	83	N2P41215
4,4'-DDE	ND	92	.173	-	3	N2P41215
4,4'-DDT	ND	100	2.65	-	56	N2P41215
Delta-BHC	ND	87	ND	141	12	N2P41215
Dieldrin	ND	91	ND	136	11	N2P41215
Endosulfan sulfate	ND	93	ND	118	8	N2P41215
Endosulfan I	ND	88	ND	133	11	N2P41215
Endosulfan II	ND	91	ND	121	11	N2P41215
Endrin	ND	91	ND	115	8	N2P41215
Endrin ketone	ND	89	ND	113	9	N2P41215
Endrin aldehyde	ND	63	ND	93	11	N2P41215
Gamma-BHC	ND	68	ND	120	11	N2P41215
Heptachlor	ND	72	ND	136	11	N2P41215
Heptachlor epoxide	ND	87	ND	140	10	N2P41215
Methoxychlor	ND	97	ND	154	18	N2P41215

- Because the analyte was present in the unspiked sample at a high level, the spiked sample does not provide valid spike recovery data.

QUALITY ASSURANCE DATA
SURROGATE SUMMARY REPORT

QC BATCH: N2P41215 **Solid (Pesticide compounds by GC)**

SAMPLE ID	SURROGATE ID B816	A500	# OUT
BLANK	66	109	0
BLANK SPIKE	52	101	0
CLJ-WCS001	87	124	0
CLJ-WCS001 MD	84	128	0
CLJ-WCS001 MS	90	138	0
CLJ-WCS002	82	149	0
CLJ-WCS005	77	133	0
CLJ-WCS006	84	128	0
CLJ-WCS007	83	139	0
CLJ-WCS008	83	152 *	1
CLJ-WCS009	96	147	0
CLJ-WCS010	88	132	0
CLJ-WCS011	84	151 *	1
CLJ-WCS012	103	131	0
QC LIMITS	(30-150)	(30-150)	

SURROGATE ID

B816 = 2,4,5,6-Tetrachloro-m-xylene
A500 = Decachlorobiphenyl

* Values outside of method quality control limits
D Sample was diluted, however, some surrogates may be reported if results were observed.

It is ASC's laboratory policy to allow one surrogate per sample fraction (acid, base-neutral or pesticide) to exceed the stated QC limits. This policy is based upon the USEPA SOW for the Contract Laboratory Program (CLP).

APPENDIX D

CHAIN-OF-CUSTODY RECORD(S)

OHM Remediation Services Corp.
A Subsidiary of OHM Corporation

ANALYTICAL DIVISION

Laboratory Analysis Report

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

VOLUME I OF III

Attn: Kent Geis

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

Sample(s): CLJDWS102, CLJDWS151 and CLJDWS075

Sample Type(s): Liquid, Organic and Solid

Analysis Performed: Tier II - Conventionals, Metals and Organics

Date Sample Received: November 10, 1994

Date Order Received: November 10, 1994

Joblink(s): 617061

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

Date: May 12, 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 (liquid)	MCAWW	160.2
Solids, Total Dissolved (liquid)	MCAWW	160.1
BTU/lb	ASTM	D240-76
Sulfide, Total as S	SW-846	9030
Percent Moisture by Distillation	ASTM	D95
Acids by IC (Cl, NO_3, PO_4 and SO_4)	MCAWW	300.0
Cyanide, Total and Amenable	SW-846	9010
RCRA Characteristics		
Reactive Sulfide	SW-846	7.3.4.2
Flash Point, Seta Flash	SW-846	1020
Reactive Cyanide	SW-846	7.3.3.2
pH, Electrode (soil)	CLP	1.7.1.1
pH, Electrode (liquid)	SW-846	9040
Metals		
Total Metals	SW-846	6010
Mercury by Cold Vapor (solid)	SW-846	7471
Mercury by Cold Vapor (liquid)	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 # CLJDWS075

Laboratory: OHM Remediation Services Corp.
Analytical Division

Project #: 15226N

Project Location: Camp Lejeune, Jacksonville, NC.

Samples in this Sample Delivery Group (SDG):

CLJDWS075 CLJDWS102 CLJDWS151

The temperature of the samples received by the laboratory was 15°C.

Volatile Organics by GC/MS

Elevated Practical Quantitation Limits (PQL) were reported due to high levels of target and/or nontarget compounds present in the samples.

Zero of 51 surrogate recoveries were outside QC limits.

Zero of 30 matrix spike recoveries and zero of 15 matrix RPD's were outside QC limits.

A sample from another SDG# was utilized for the matrix spike/matrix spike duplicate for the water and soil matrices in this SDG.

All target compounds were inadvertently spiked for this analytical batch. Only the required CLP spiking compounds were reported on Form III.

Low levels of Methylene Chloride were detected in the method blank for the water matrix and should therefore, be taken into consideration when assessing the data.

Low levels of Xylene were detected in the method blanks for the organic and soil matrices and should therefore, be taken into consideration when assessing the data.

All initial calibration criteria were met except Toluene that was analyzed on 11/8/94. Due to possible laboratory error, this constituent only had a three point calibration curve generated.

Three compounds were outside continuing calibration on 11/17/94, lab ID# c0150.d. One compound was outside continuing calibration on 11/18/94, lab ID# c0173.d. All other compounds met continuing calibration criteria.

All internal standard criteria were met for this SDG except sample CLJDWS151. Chlorobenzene-d_5 was outside criteria due to matrix interferences which was verified by multiple analyses.

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 target and/or nontarget compounds present in the samples.

Seven of 84 surrogates were outside QC limits, 30 surrogates were diluted below detectable levels (recoveries were reported whenever possible).

Matrix spike recoveries and matrix RPD's were outside QC limits for the oil matrix due to sample dilutions caused by high levels of compounds present. QA/QC acceptance was based on blank (method) spike recoveries which, in some cases, were biased high for this batch.

Zero of 22 soil matrix spike recoveries and one of 11 soil matrix RPD's were outside QC limits.

Matrix spike data is not available for the water sample #CLJDWS102 due to the insufficient sample volume supplied. QA/QC acceptance was based on blank (method) spike recoveries which, in some cases, were biased high for this batch. Insufficient sample remained to re-extract and re-analyze.

All method blank criteria were met for this SDG.

One compound was outside initial calibration criteria on 11/10/04. All other initial calibration criteria were met for this SDG.

One compound was outside continuing calibration criteria on 11/10/94 and 11/21/04, lab ID# e2872.d and e2921.d. Six compounds were outside continuing calibration on 11/18/94, lab ID# b4987.d. Four compounds were outside continuing calibration on 11/20/94, lab ID# e2893.d. Two compounds were outside continuing calibration on 11/22/94, lab ID# e2943.d. All other compounds were within criteria.

Two internal standard area counts were outside QC limits for sample CLJDWS151 due to matrix interferences and was confirmed by replicate analysis.

No GPC cleanup was performed on the solid samples submitted in this SDG.

All holding times were met for this SDG.

Pesticides by GC

Elevated Practical Quantitation Limits (PQL) were reported due to high levels of target and/or nontarget compounds present in the samples.

Six of 28 surrogates were outside CLP Advisory QC limits listed on FORM II PEST 1&2. Two of 14 surrogates were outside method limits for TCX and four of 14 surrogates were outside method limits for DCB in the primary/quantitation analysis. Four surrogates were diluted below quantitation limits.

Zero of 12 soil matrix spike recoveries and six of 6 soil matrix RPD's were outside QC limits.

Oil matrix spike/matrix spike duplicates were diluted below detectable levels. The samples associated with this batch are CLJDWS075.

Matrix spike data is not available for the water sample #CLJDWS102 due to the insufficient sample volume supplied. QA/QC acceptance was based on blank (method) spike recoveries which were within QC limits.

A soil sample from another SDG# was utilized for the matrix spike/matrix spike duplicate for this SDG.

All method blank criteria were met for this SDG.

All compounds met %RSD initial calibration criteria for the primary analysis except for the surrogate compound Decachlorobiphenyl (DCB). Two compounds were outside initial calibration criteria for the confirmation analysis.

Two compounds were outside continuing primary calibration on 11/4/94, lab ID# Z7433.

Ten compounds were outside ending calibration on 11/4/94, lab ID# Z7463.

Five compounds were outside continuing confirmation on 11/16/94, lab ID# Y7337.

Sixteen compounds were outside ending confirmation on 11/18/94, lab ID# Y7393 and five compounds were outside ending confirmation on 11/19/94, lab ID# Y7405.

None of these compounds were detected in any samples associated with these standards but would have been detected if present in the samples.

No GPC cleanup was performed on solid samples submitted in this SDG.

All holding times were met for this SDG.

Signature: _____ Name: William A. Fithian
Date: 5/2/95 Title: Technical Project Manager

00007
EPA SAMPLE NO.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLJDWS075

Lab Name: ANALYTICAL SERVICES CORP. Contract: NFESC

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJDWS075

Matrix: (soil/water) SOIL Lab Sample ID: JN4743V

Sample wt/vol: .53 (g/mL) G Lab File ID: C0197

Level: (low/med) LOW Date Received: 11/10/94

% Moisture: not dec. _____ Date Analyzed: 11/19/94

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 5000.0 48,000

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: .021 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	240000	U
74-83-9	Bromomethane	240000	U
75-01-4	Vinyl Chloride	240000	U
75-00-3	Chloroethane	240000	U
75-09-2	Methylene Chloride	120000	J
67-64-1	Acetone	470000	U
75-15-0	Carbon Disulfide	240000	U
75-35-4	1,1-Dichloroethene	240000	U
75-34-3	1,1-Dichloroethane	240000	U
67-66-3	Chloroform	240000	U
107-06-2	1,2-Dichloroethane	240000	U
78-93-3	2-Butanone	240000	U
71-55-6	1,1,1-Trichloroethane	240000	U
56-23-5	Carbon Tetrachloride	240000	U
75-27-4	Bromodichloromethane	240000	U
78-87-5	1,2-Dichloropropane	240000	U
10061-01-5	cis-1,3-Dichloropropene	240000	U
79-01-6	Trichloroethene	240000	U
124-48-1	Dibromochloromethane	240000	U
79-00-5	1,1,2-Trichloroethane	240000	U
71-43-2	Benzene	240000	U
10061-02-6	trans-1,3-Dichloropropene	240000	U
75-25-2	Bromoform	240000	U
108-10-1	Methyl-iso-butyl ketone	470000	U
591-78-6	2-Hexanone	240000	U
127-18-4	Tetrachloroethylene	240000	U
79-34-5	1,1,2,2-Tetrachloroethane	240000	U
108-88-3	Toluene	130000	J
108-90-7	Chlorobenzene	240000	U
100-41-4	Ethylbenzene	350000	
100-42-5	Styrene	240000	U
1330-20-7	Xylene (total)	1800000	B
156-60-5	1,2-Trans-dichloroethylene	240000	U

EPA SAMPLE NO.

CLJDWS075

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ANALYTICAL SERVICES CORP. Contract: NFESC

Lab Code: _____ Case No.: 15226N SAS No.: _____ SDG No.: CLJDWS075

Matrix: (soil/water) SOIL Lab Sample ID: JN4743V

Sample wt/vol: .53 (g/mL) G Lab File ID: C0197

Level: (low/med) LOW Date Received: 11/10/94

% Moisture: not dec. _____ Date Analyzed: 11/19/94

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: ~~5000.0~~ 43.000

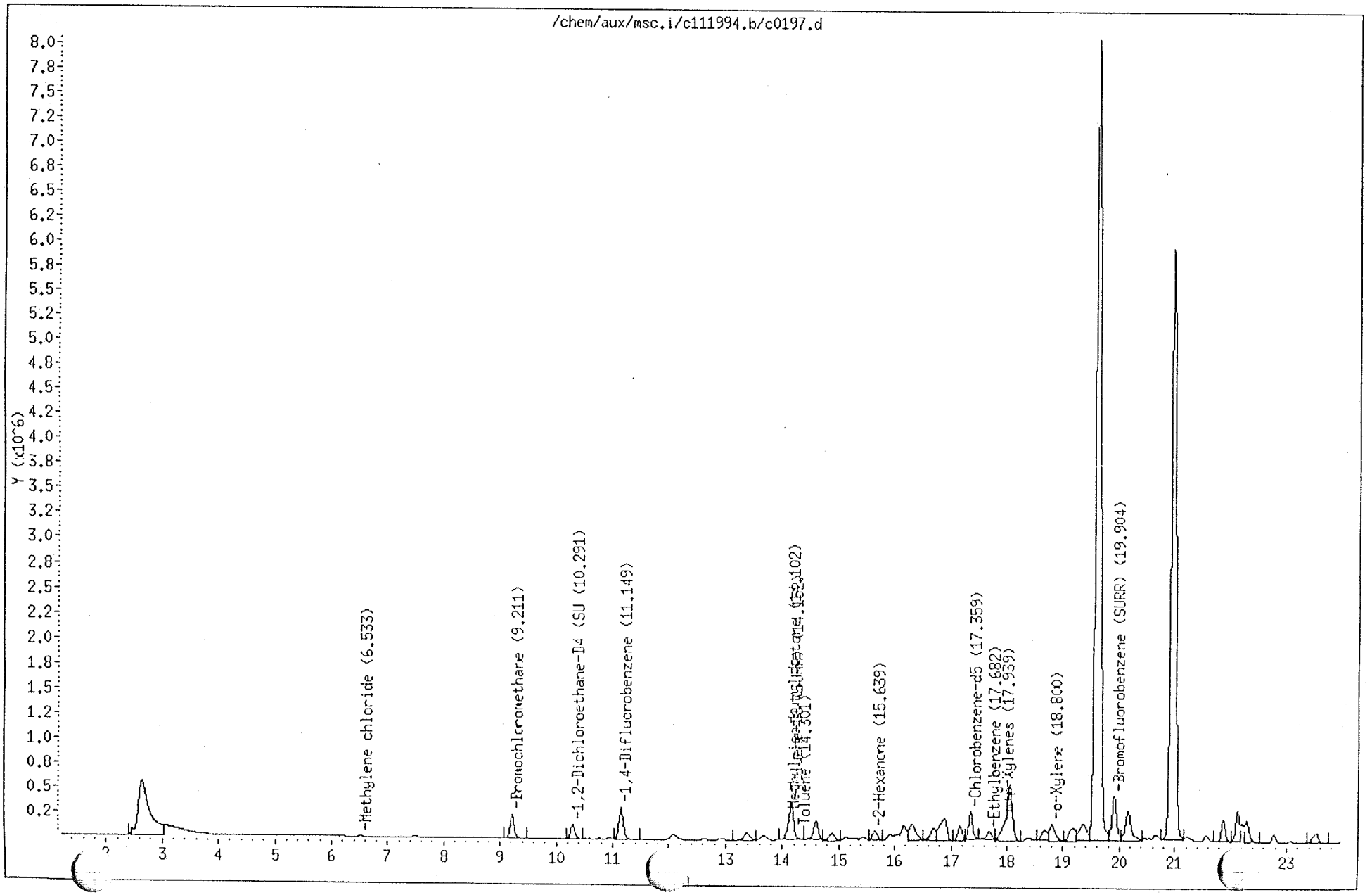
Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: ~~.001~~ (uL)

Number TICs found: 15 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	111-65-9	Octane	14.60	2100000	JN
2.	3073-66-3	Cyclohexane, 1,1,3-trimethyl	16.31	2200000	JN
3.	3074-71-3	Heptane, 2,3-dimethyl-	16.69	1400000	JN
4.	2213-23-2	Heptane, 2,4-dimethyl-	16.88	3600000	JN
5.	2216-33-3	Octane, 3-methyl-	17.15	1500000	JN
6.	111-84-2	Nonane	18.05	8100000	JN
7.		Unk hydrocarbon	18.68	1300000	J
8.		Unk hydrocarbon	19.16	1700000	J
9.		Unk hydrocarbon	19.36	2500000	J
10.	80-56-8	.alpha.-Pinene	19.60	84000000	JN
11.	79-92-5	Camphene	20.16	3500000	JN
12.	127-91-3	.beta.-Pinene	20.96	56000000	JN
13.	99-86-5	1,3-Cyclohexadiene, 1-methyl	21.87	2000000	JN
14.	5989-27-5	D-Limonene	22.12	2600000	JN
15.	3387-41-5	Bicyclo[3.1.0]hexane, 4-meth	22.29	1900000	JN

Data File: /chem/aux/msc.i/c111994.b/c0197.d
Date : 19-NOV-94 17:25
Instrument : msc.i
Sample ID : 15226n cljdws075
Column phase : J&W DB_624
Volume Injected (uL) : 0.0

Column diameter : 0.53



Data File: /chem/aux/msc.i/c111994.b/c0197.d
Report Date: 19-Nov-1994 17:58

Analytical Services Corp.

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/aux/msc.i/c111994.b/c0197.d
Lab. Id. :
Quant Type: ISTD
Inj Date : 19-NOV-94 17:25
Autotune Date: {
Operator : dana
Inst ID: msc.i
Smp Info : 15226n cljdws075
Misc Info : jn4743v,n4v4035,s:m2,0.53,5.00:5000,
Comment :
Method : /chem/aux/msc.i/c111994.b/8240ambic.m
Meth Date : 19-Nov-1994 17:57 jeff
Cal Date : 19-NOV-94 16:20
Cal File: c0195.d
Als bottle: 25
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/l)	FINAL (ug/l)
	9 Methylene chloride	84.00	6.533	(0.709)	10420	2.64	2.64(aQ)
	Bromochloromethane	128.00	9.211	(1.000)	184538	50.0	
S	19 1,2-Dichloroethane-D4 (SURR)	65.00	10.299	(1.118)	282802	47.7	47.7
*	22 1,4-Difluorobenzene	114.00	11.149	(1.000)	731042	50.0	
	28 Methyl-iso-butyl ketone	43.00	14.102	(0.812)	12697	3.06	~~3.06(aQ)~~ NS
S	29 Toluene-D8 (SURR)	98.00	14.160	(0.816)	590834	51.0	51.0
	30 Toluene	92.00	14.301	(0.824)	20350	2.84	2.84(a)
	34 2-Hexanone	43.00	15.648	(0.901)	150262	61.4	~~61.4(Q)~~ NS
*	36 Chlorobenzene-d5	117.00	17.359	(1.000)	466543	50.0	
	38 Ethylbenzene	106.00	17.674	(1.018)	31548	7.44	7.44
	39 m-p-Xylenes	106.00	17.939	(1.033)	80041	16.2	16.2
	40 o-Xylene	106.00	18.808	(1.083)	105473	21.0	21.0
S	43 Bromofluorobenzene (SURR)	95.00	19.912	(1.147)	401542	48.7	48.7

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/aux/msc.i/c111994.b/c0197.d

Date : 19-NOV-94 17:25

Instrument : msc.i

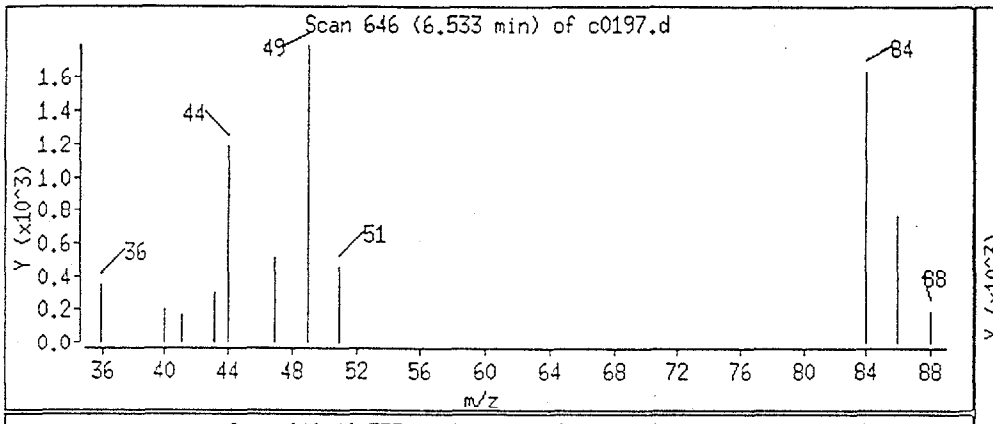
Sample ID : 15226n cljdws075

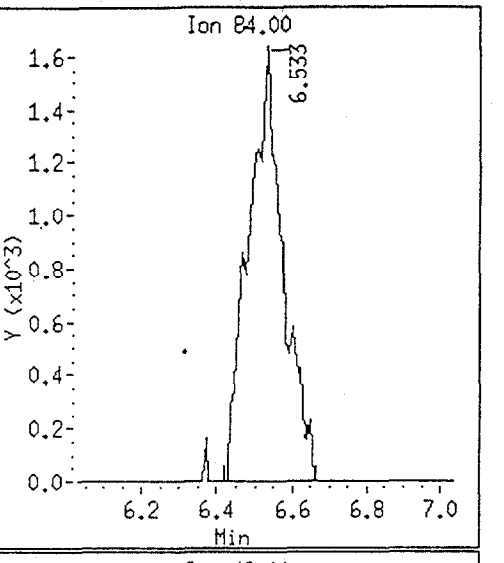
Column phase : J&W DB_624

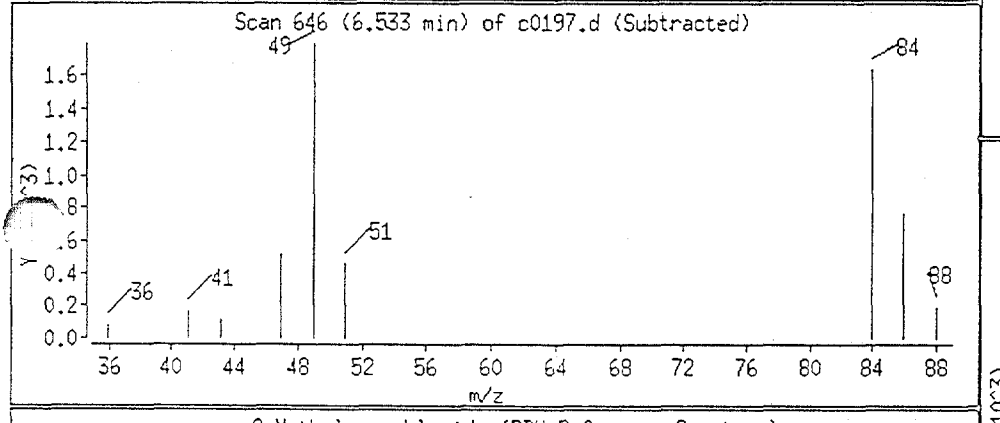
Column diameter : 0.53

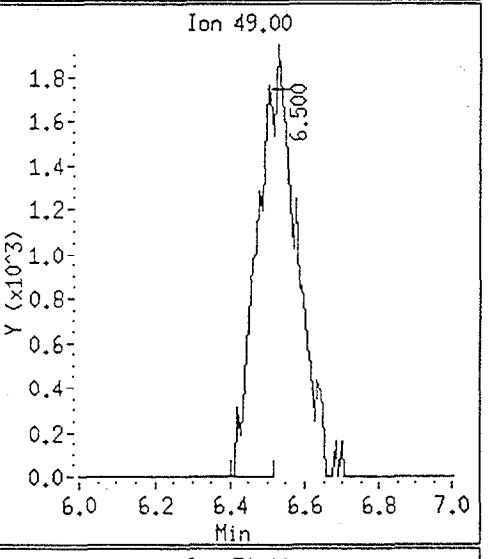
Volume Injected (uL) : 0.0

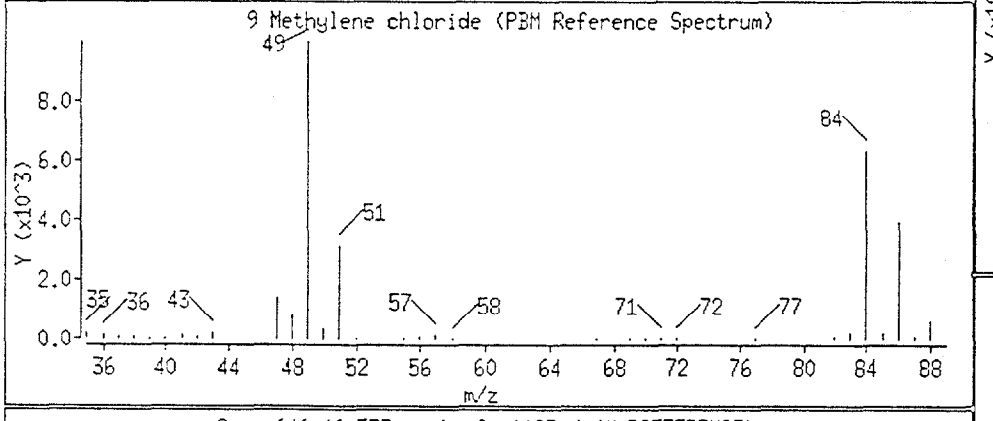
9 Methylene chloride

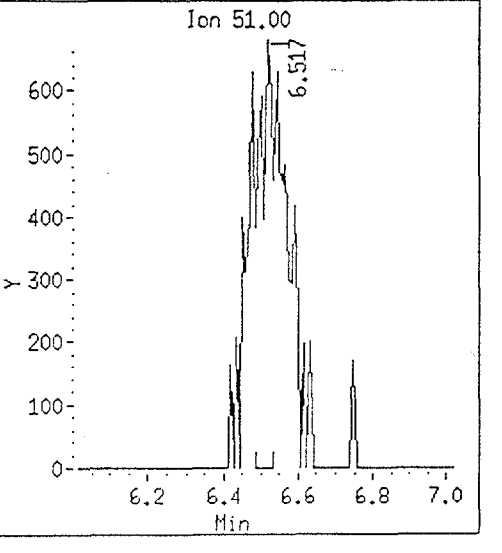


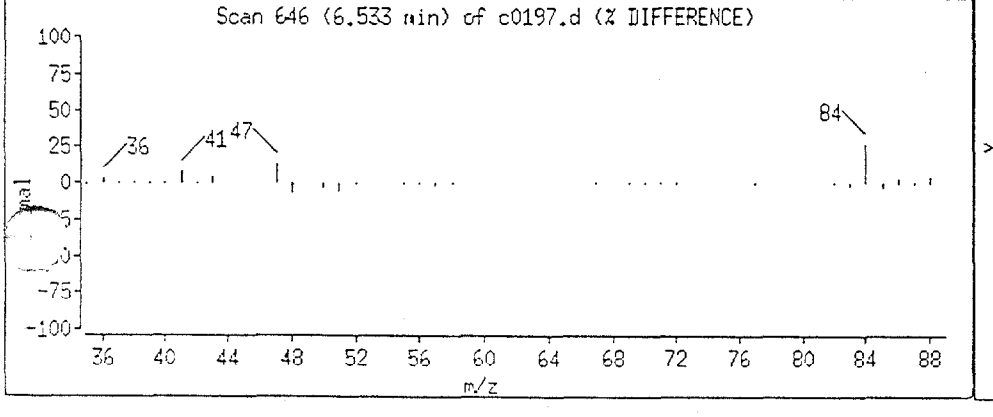












Data File: /chem/aux/msc.i/c111994.b/c0197.d

Date : 19-NOV-94 17:25

Instrument : msc.i

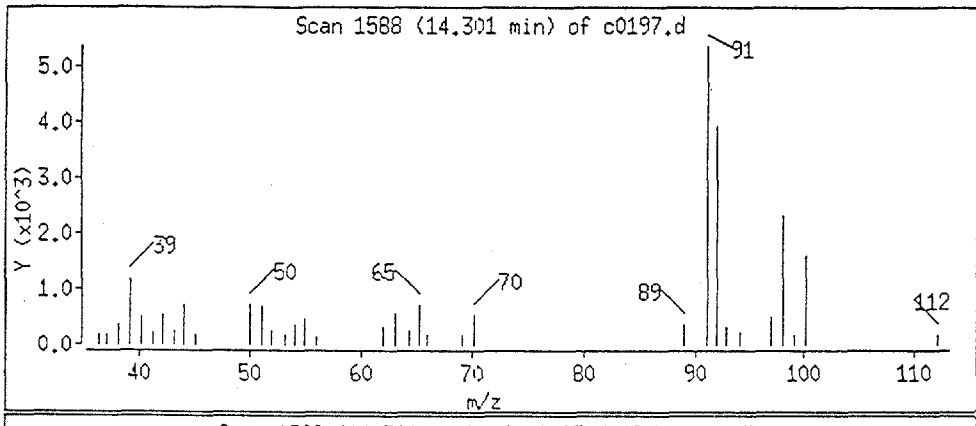
Sample ID : 15226n cljdws075

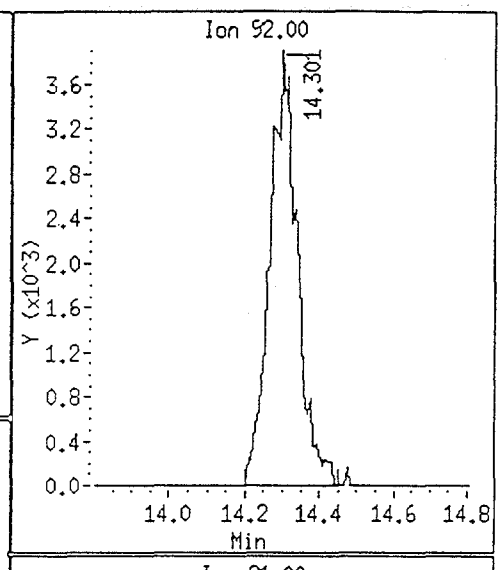
Column phase : J&W DB_624

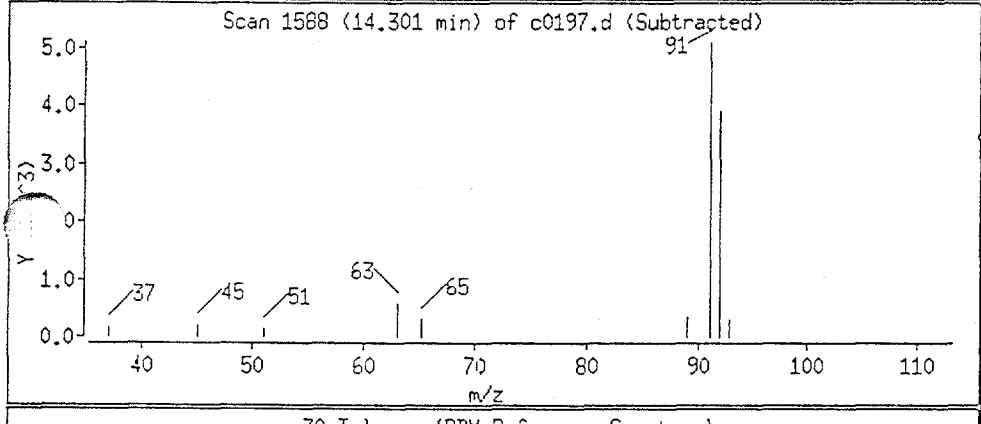
Column diameter : 0.53

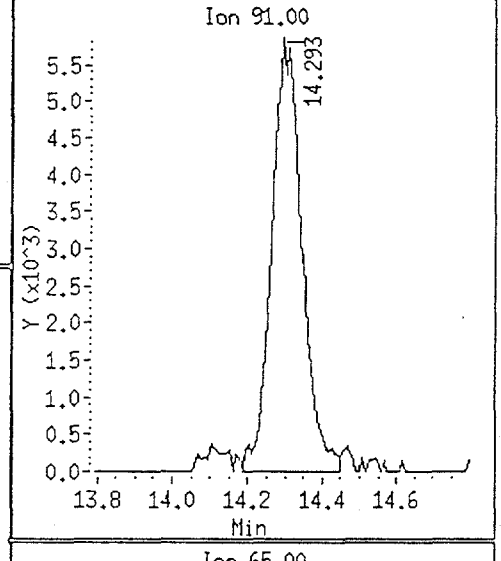
Volume Injected (uL) : 0.0

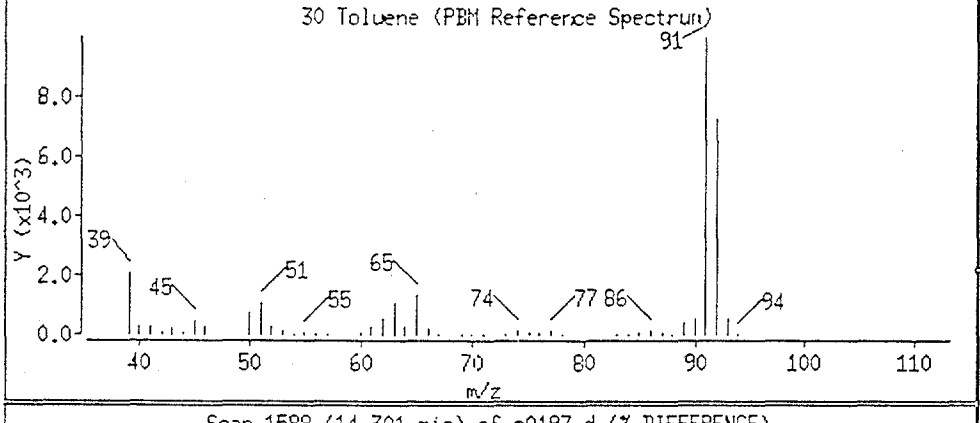
30 Toluene

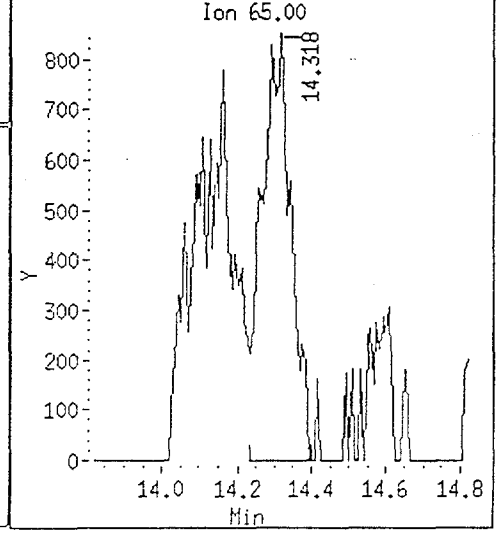


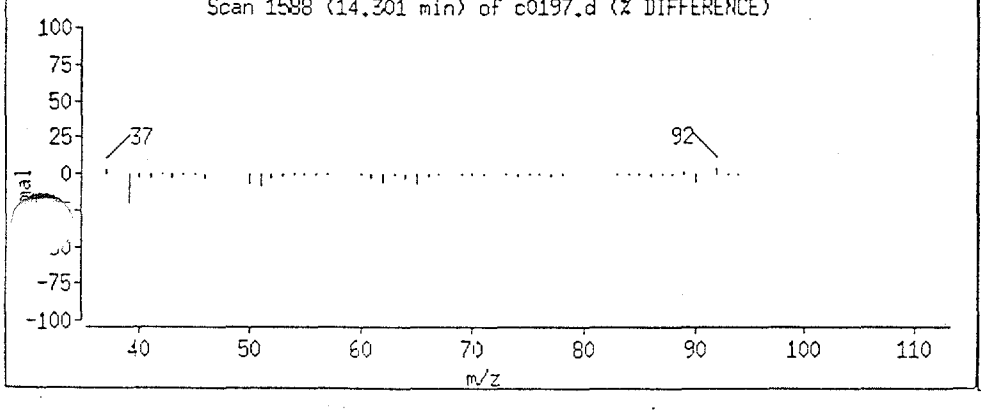












Data File: /chem/aux/msc.i/c111994.b/c0197.d

Date : 19-NOV-94 17:25

Instrument : msc.i

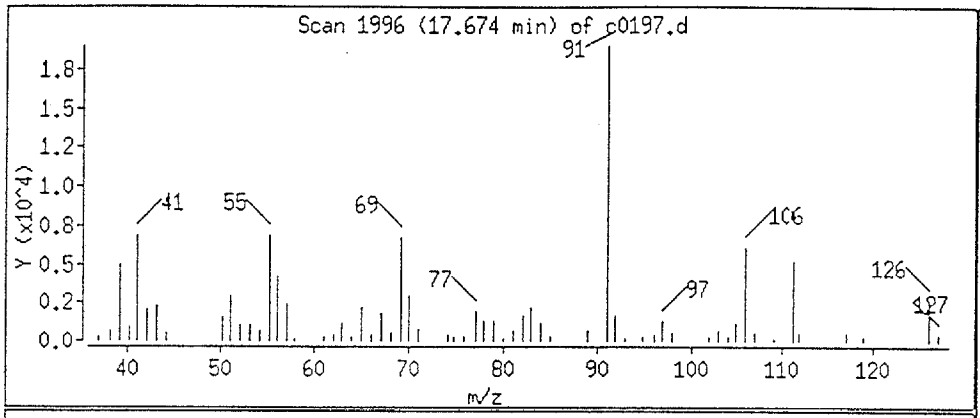
Sample ID : 15226n cljdws075

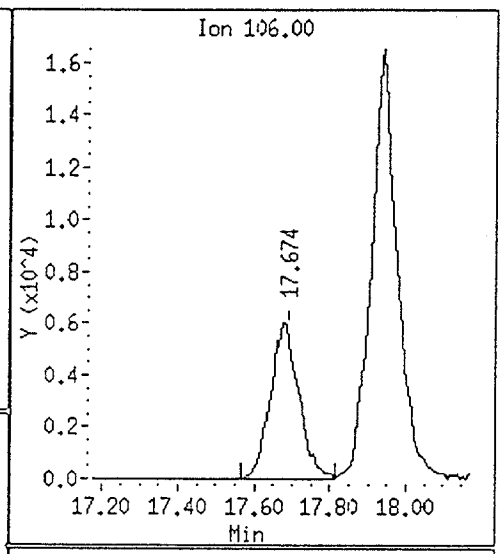
Column phase : J&W DB_624

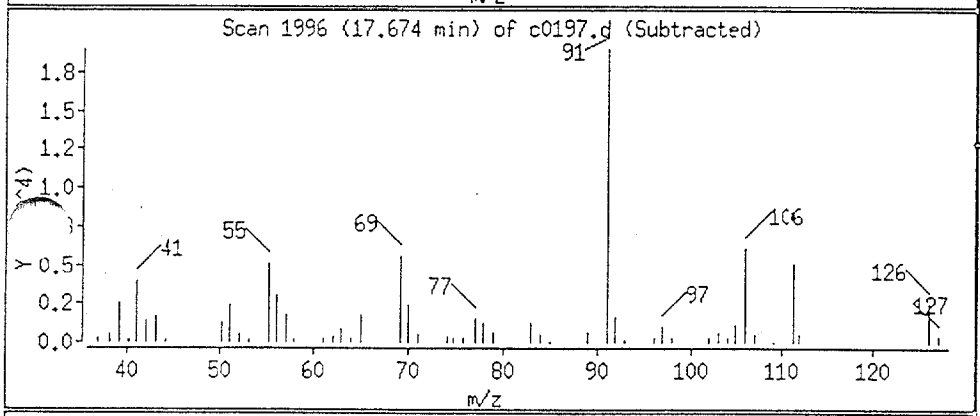
Column diameter : 0.53

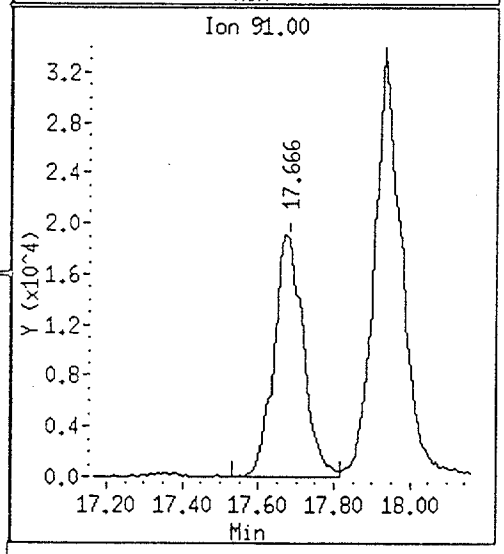
Volume Injected (uL) : 0.0

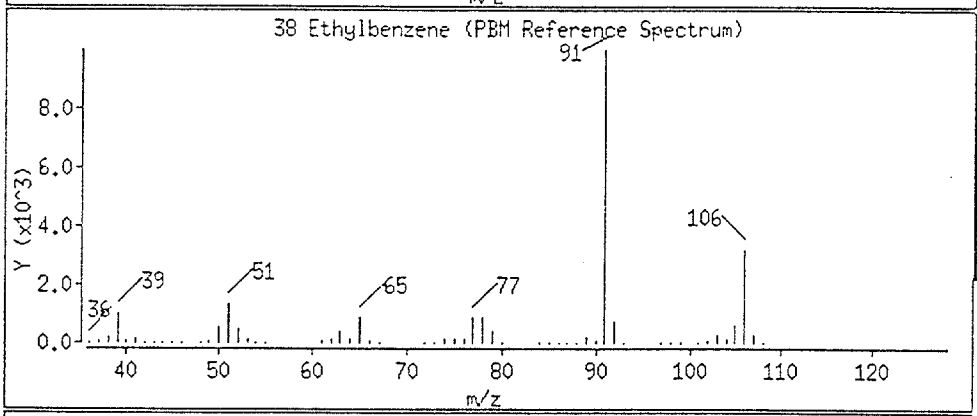
38 Ethylbenzene

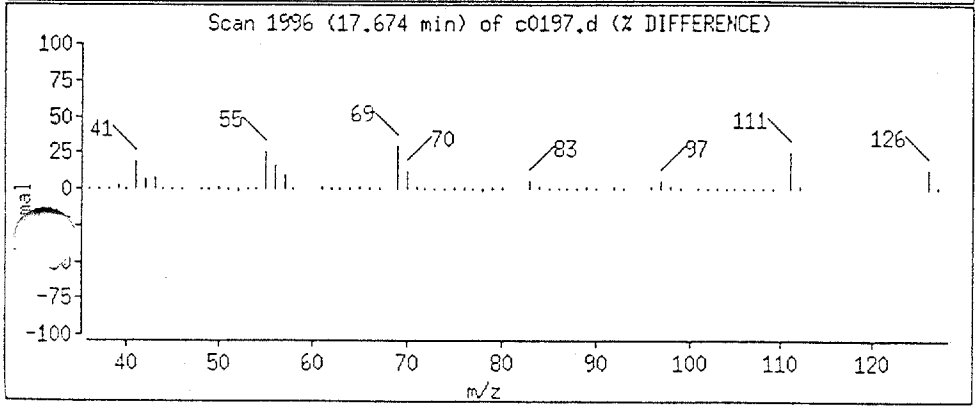












Data File: /chem/aux/msc.i/c111994.b/c0197.d

Date : 19-NOV-94 17:25

Instrument : msc.i

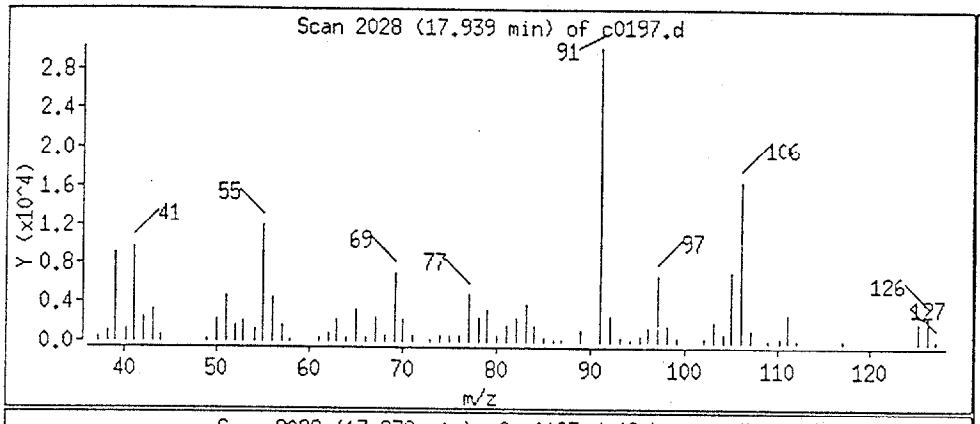
Sample ID : 15226n cljdws075

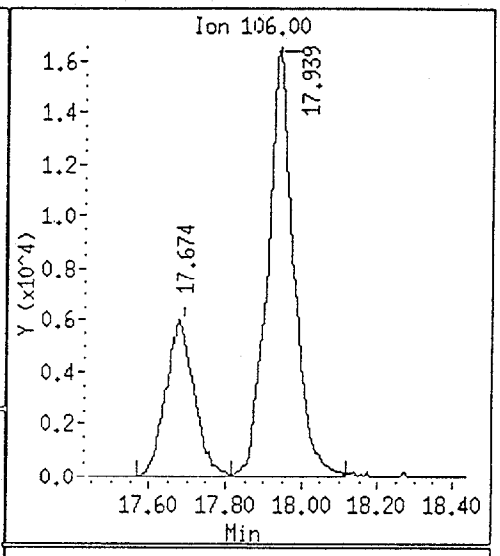
Column phase : J&W DB_624

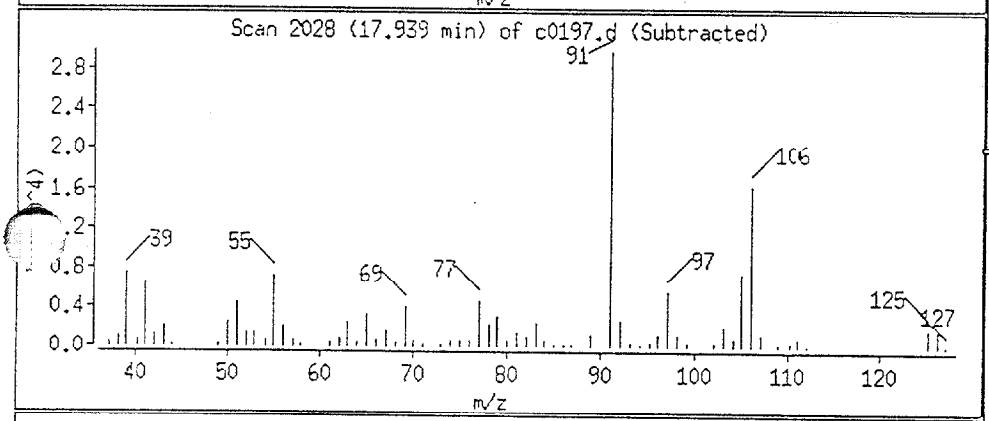
Column diameter : 0.53

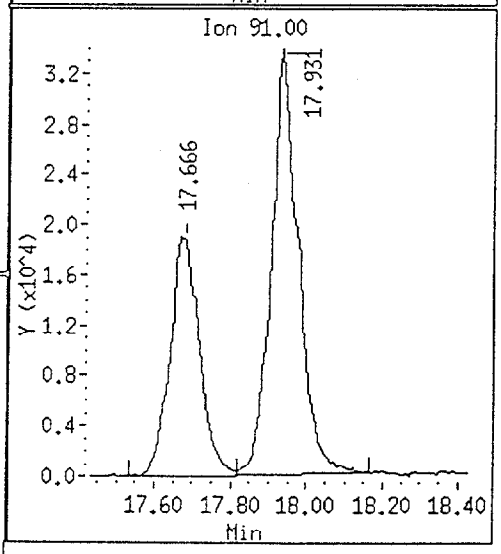
Volume Injected (uL) : 0.0

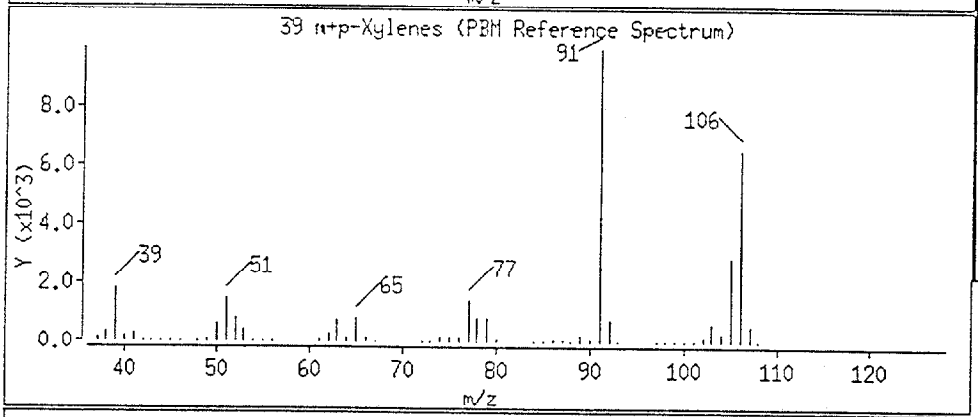
39 m+p-Xylenes

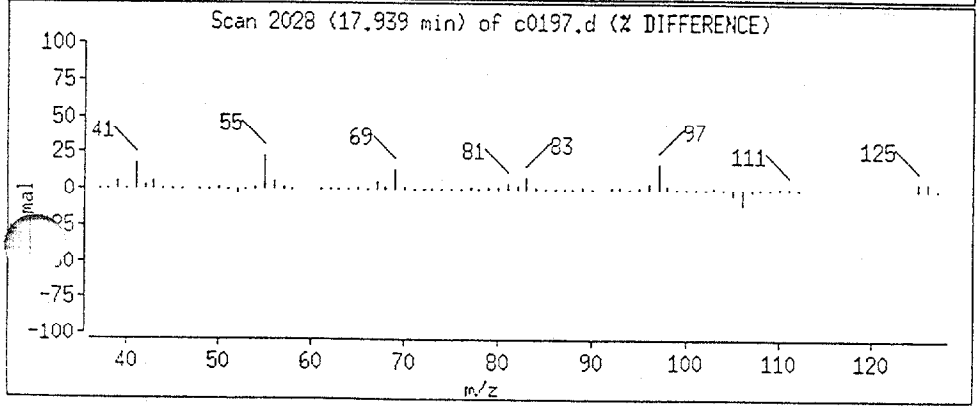












Data File: /chem/aux/msc.i/c111994.b/c0197.d

Date : 19-NOV-94 17:25

Instrument : msc.i

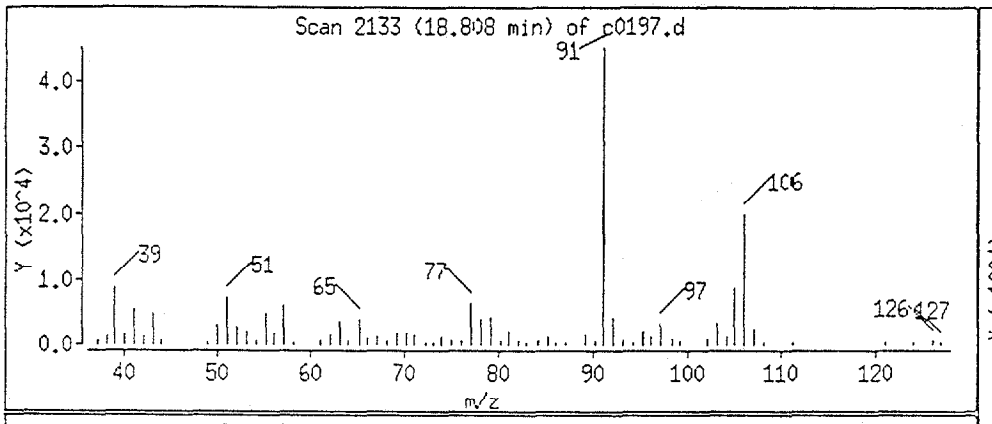
Sample ID : 15226n cljdws075

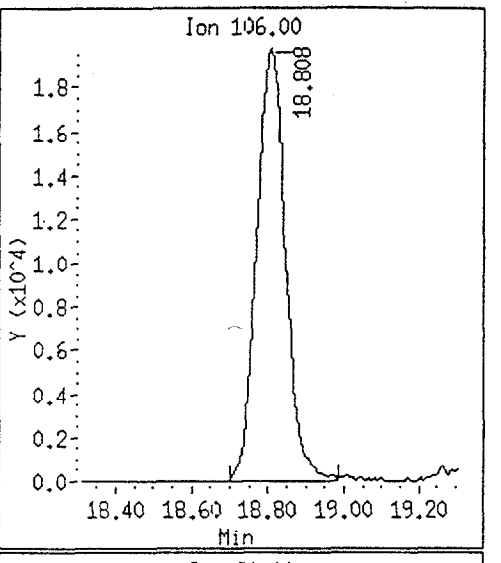
Column phase : J&W DB_624

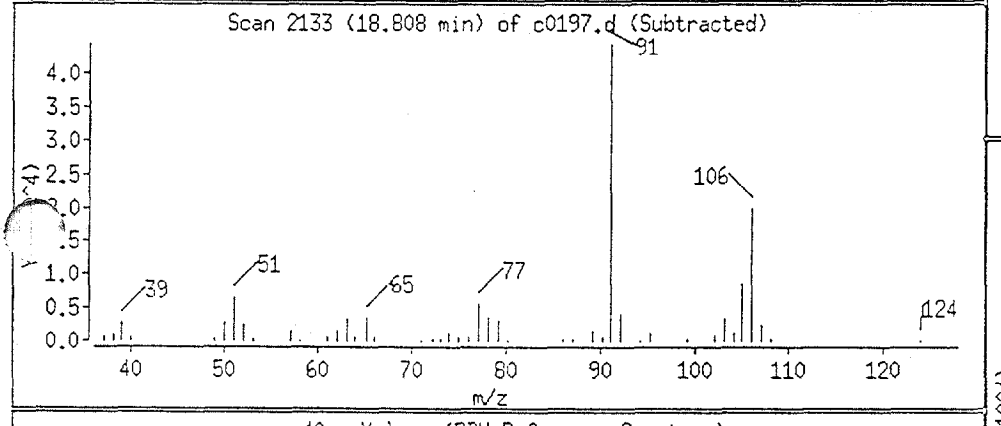
Column diameter : 0.53

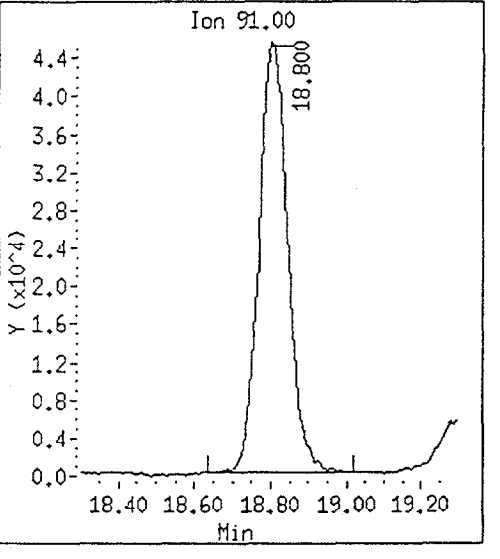
Volume Injected (uL) : 0.0

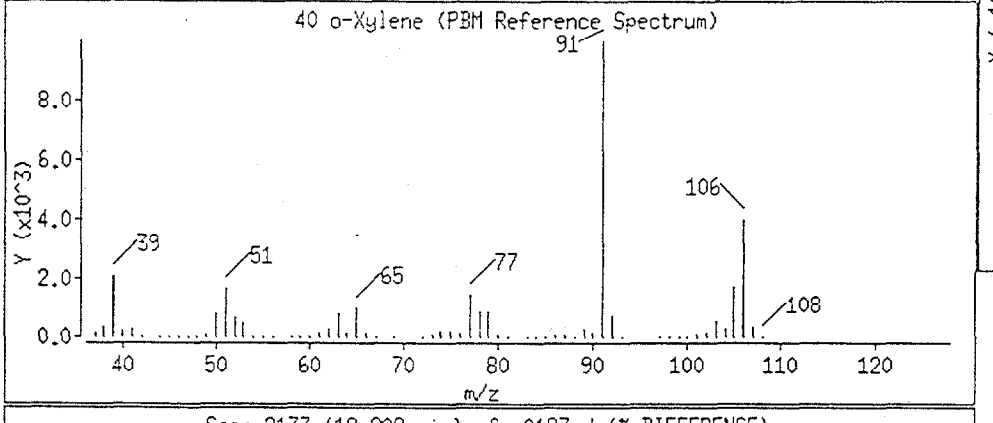
40 o-Xylene

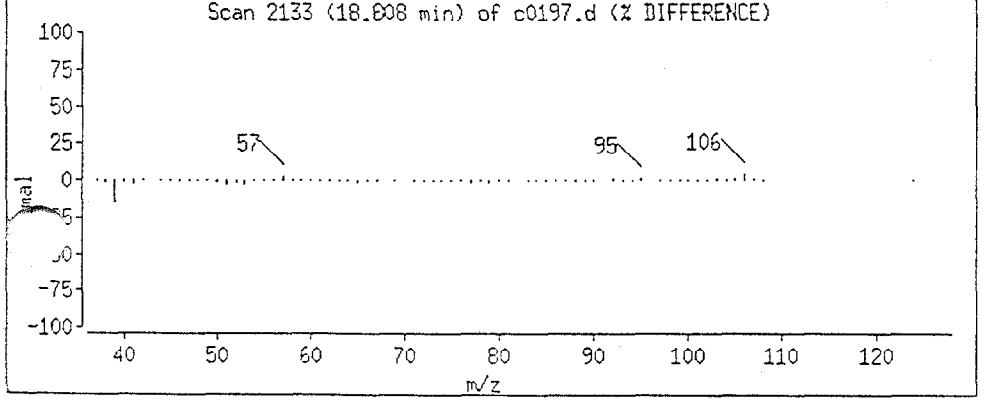








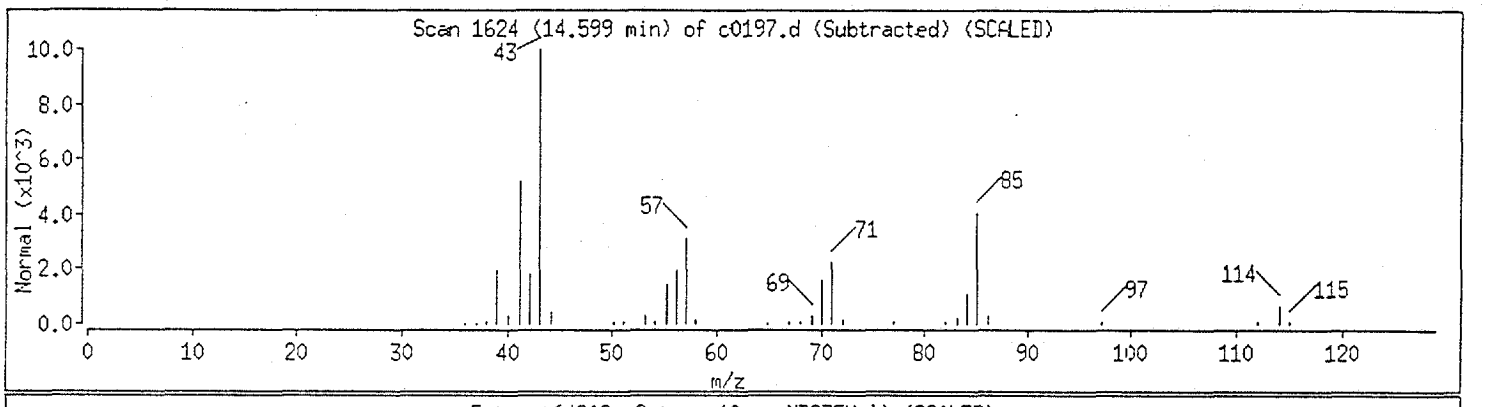


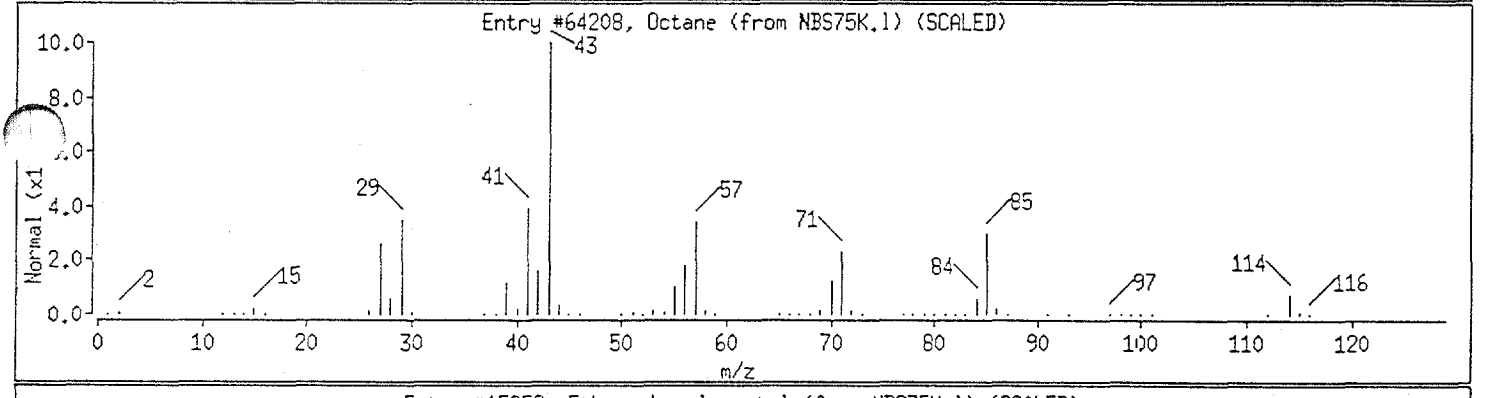


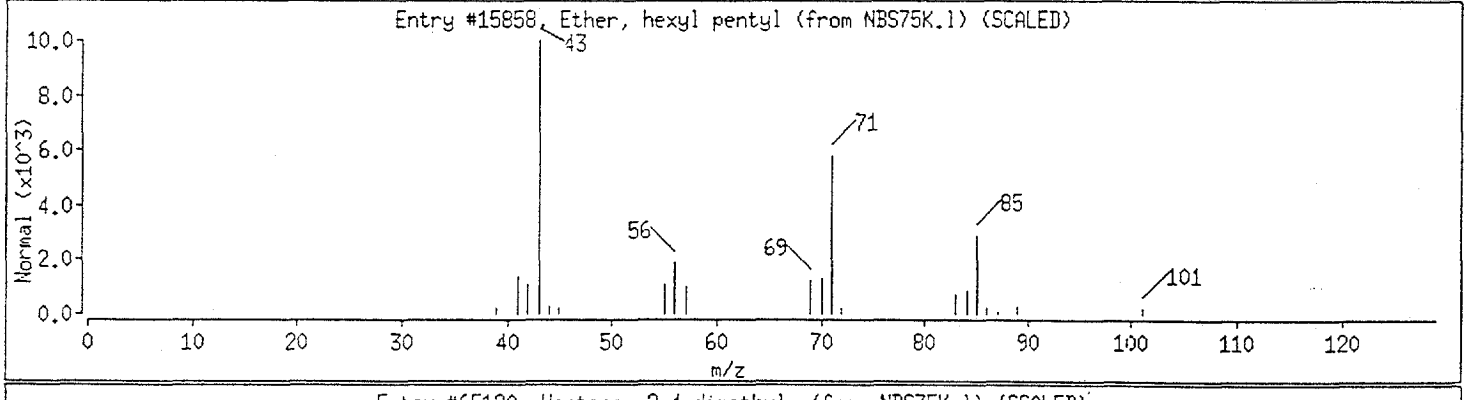
Data File: /chem/aux/msc.i/c111994.b/c0197.d

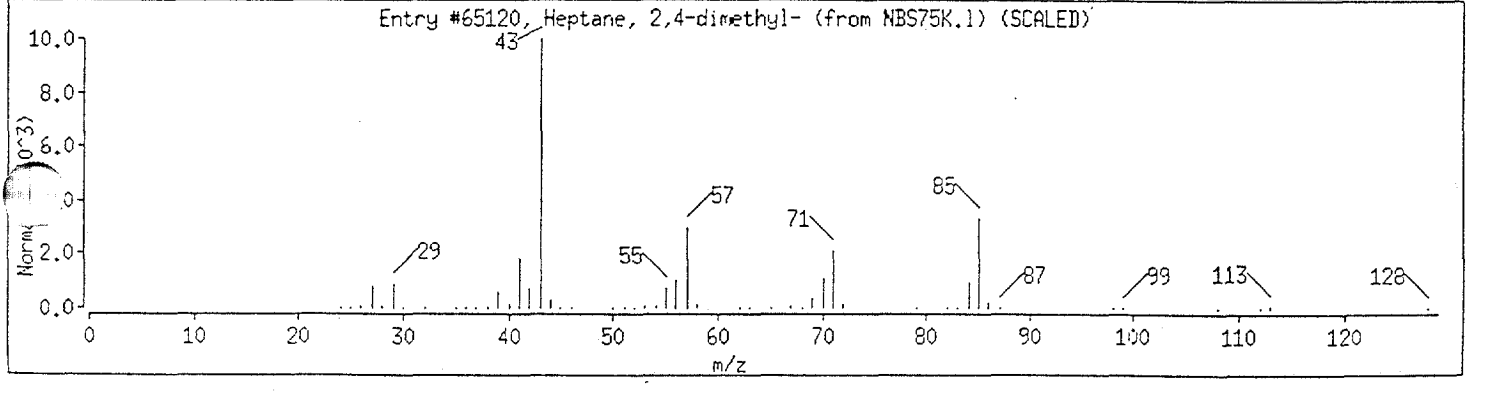
Date : 19-NOV-94 17:25
Instrument : msc.i
Sample ID : 15226n cljdws075
Column phase : J&W DB_624
Column diameter : 0.53
Volume Injected (uL) : 0.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Octane	111-65-9	NBS75K.1	64208	94
Ether, hexyl pentyl	32357-83-8	NBS75K.1	15858	64
Heptane, 2,4-dimethyl-	2213-23-2	NBS75K.1	65120	64





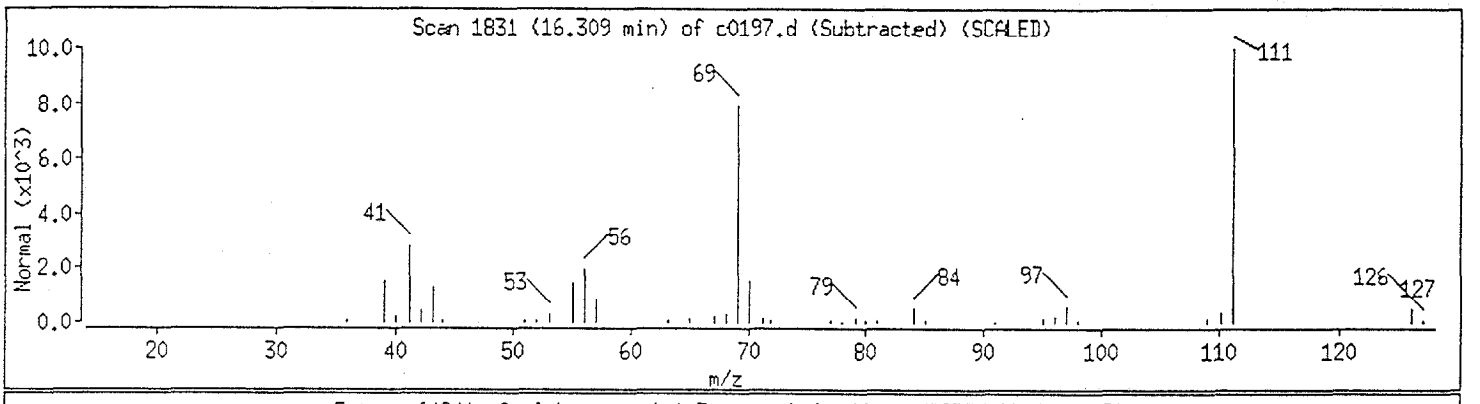


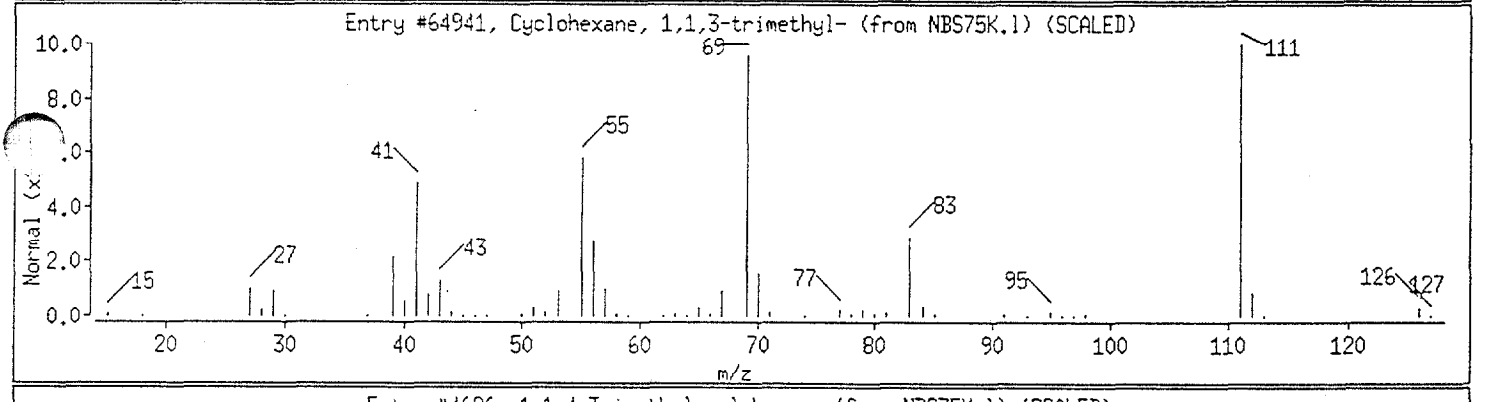


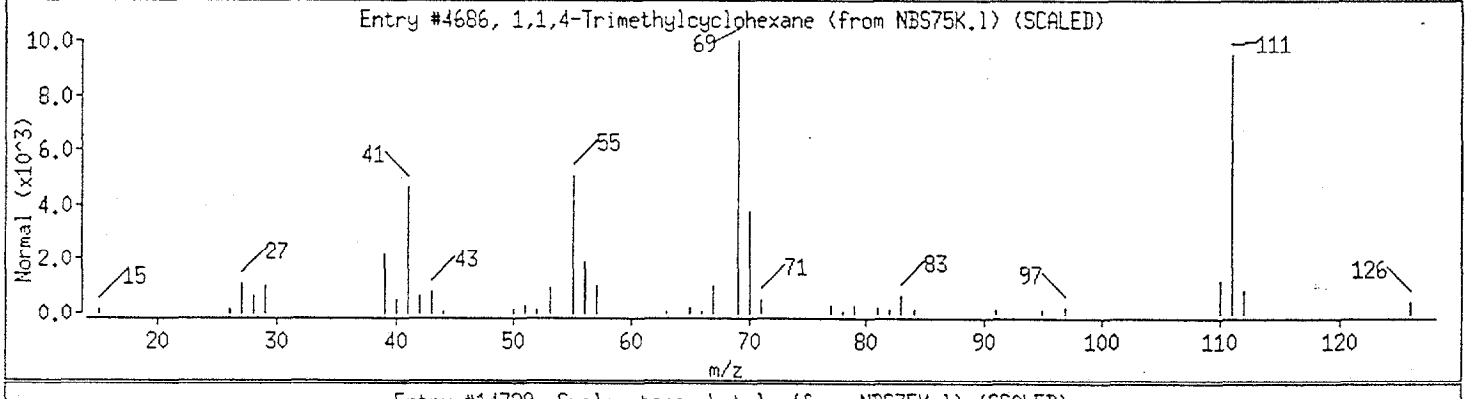
Data File: /chem/aux/msc.i/c111994.b/c0197.d
Date : 19-NOV-94 17:25
Instrument : msc.i
Sample ID : 15226n cljdws075
Column phase : J&W DB_624
Volume Injected (uL) : 0.0

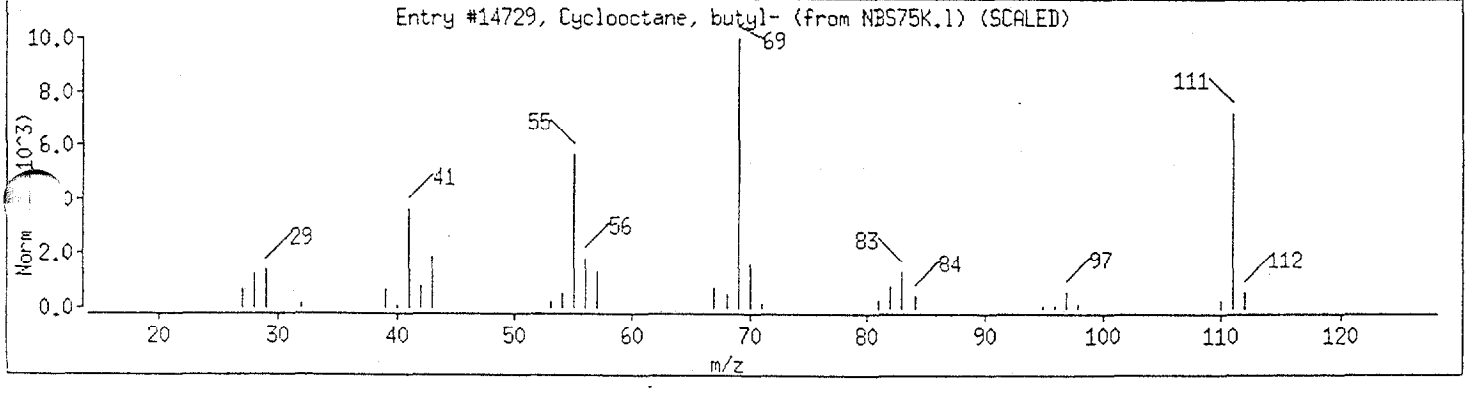
Column diameter : 0.53

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Cyclohexane, 1,1,3-trimethyl-	3073-66-3	NBS75K.l	64941	78
1,1,4-Trimethylcyclohexane	7094-27-1	NBS75K.l	4686	72
Cyclooctane, butyl-	16538-93-5	NBS75K.l	14729	56



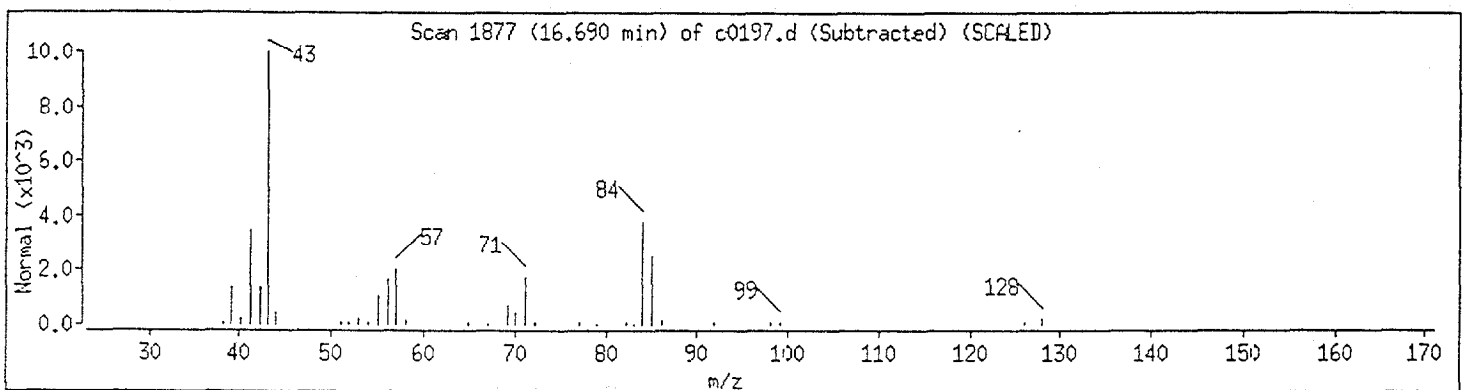


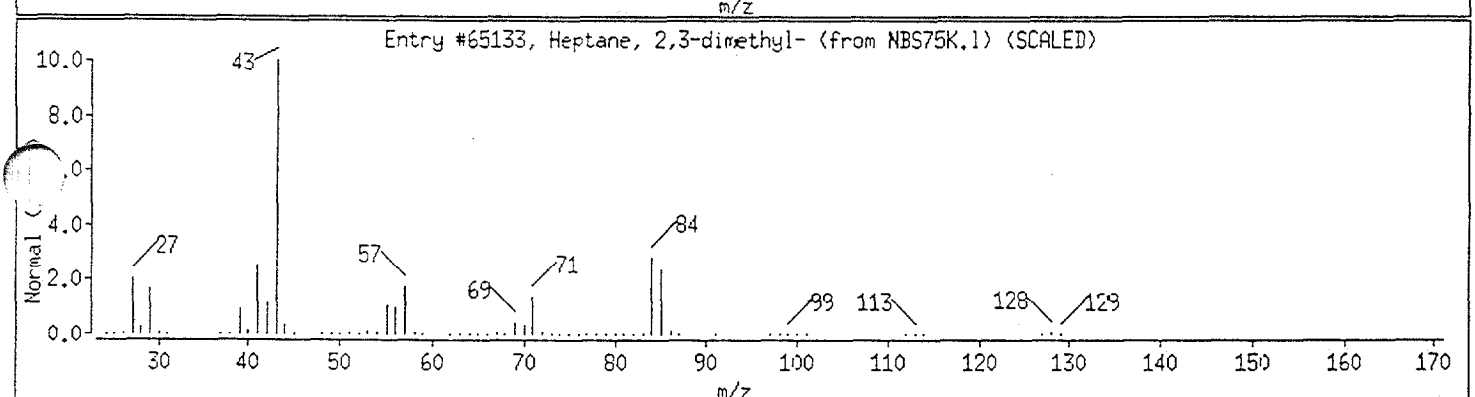


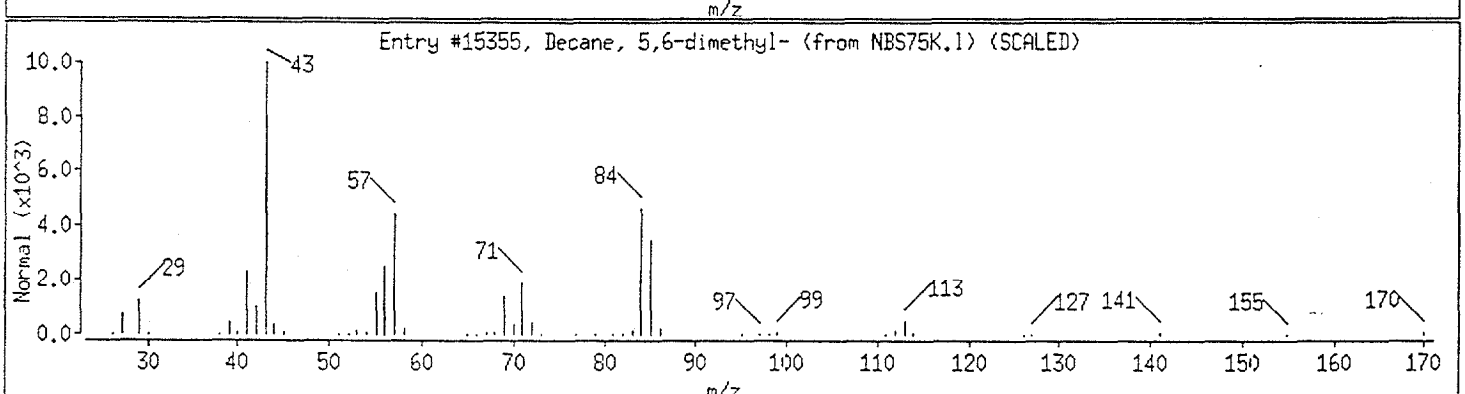


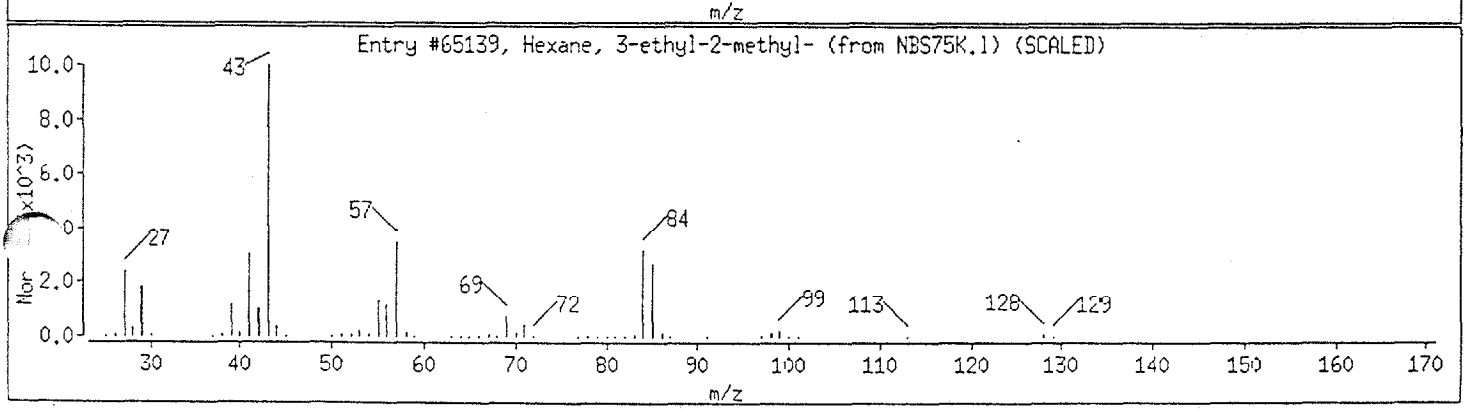
Data File: /chem/aux/msc.i/c111994.b/c0197.d
Date : 19-NOV-94 17:25
Instrument : msc.i
Sample ID : 15226n cljdws075
Column phase : J&W DB_624
Column diameter : 0.53
Volume Injected (uL) : 0.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Heptane, 2,3-dimethyl-	3074-71-3	NBS75K.1	65133	83
Decane, 5,6-dimethyl-	1636-43-7	NBS75K.1	15355	83
Hexane, 3-ethyl-2-methyl-	16789-46-1	NBS75K.1	65139	78



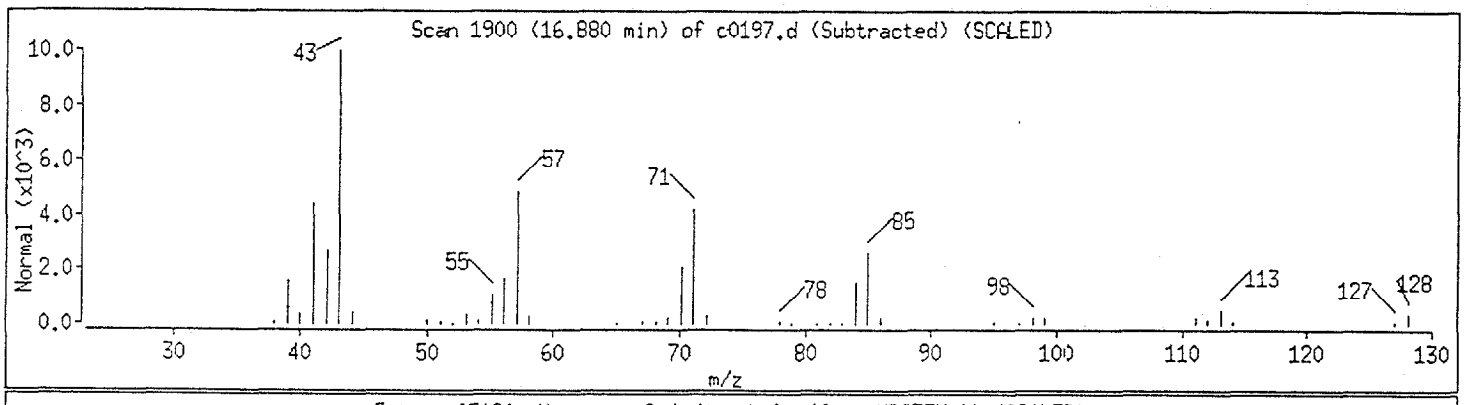


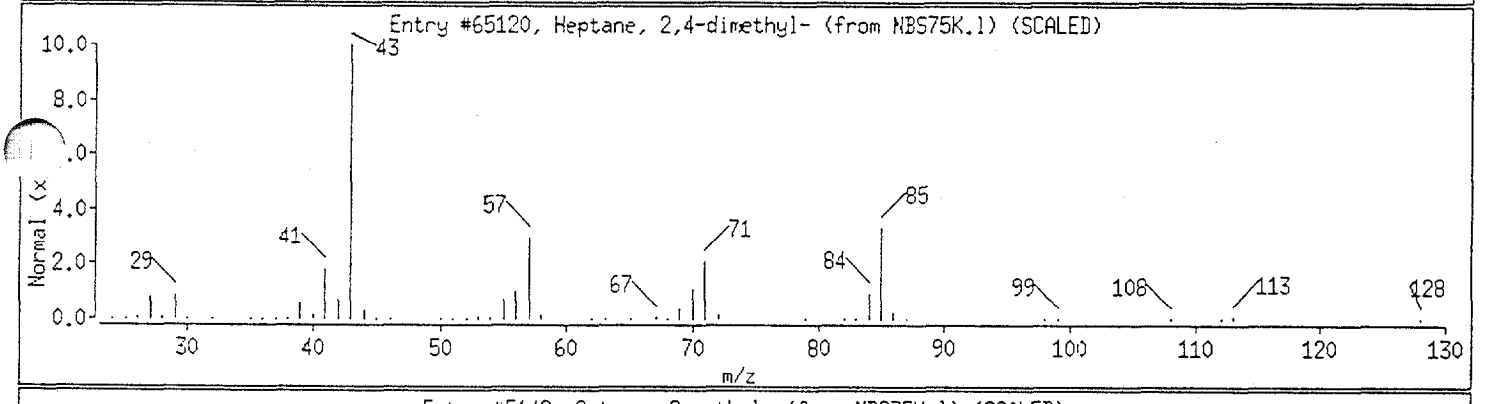


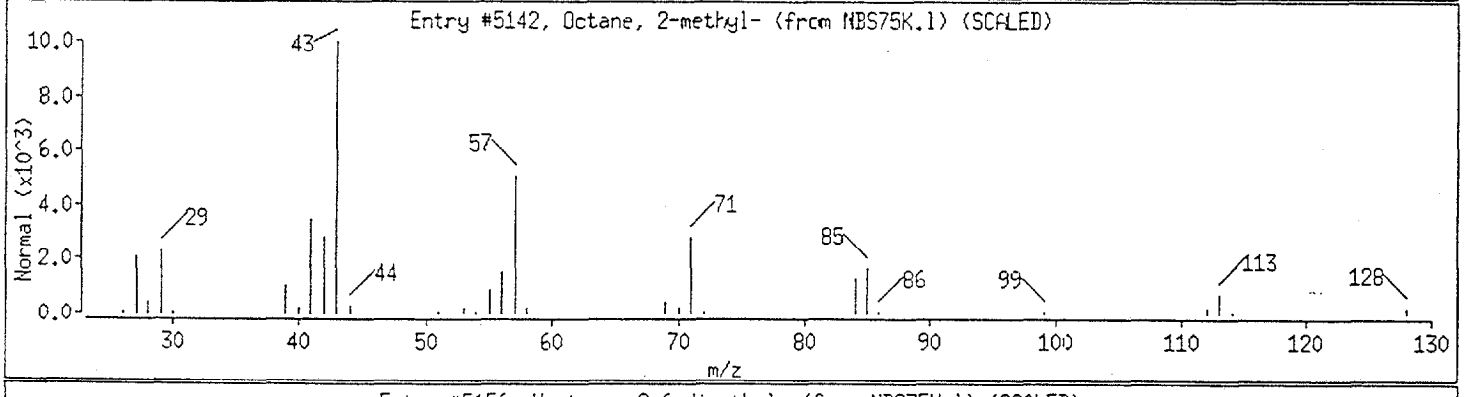


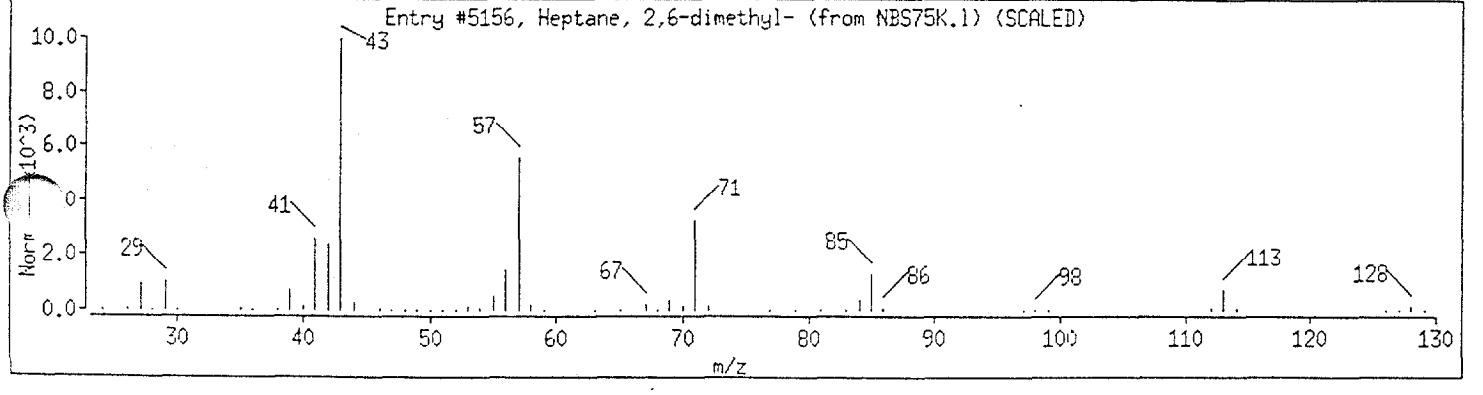
Data File: /chem/aux/msc.i/c111994.b/c0197.d
Date : 19-NOV-94 17:25
Instrument : msc.i
Sample ID : 15226n cljdws075
Column phase : J&W DB_624
Column diameter : 0.53
Volume Injected (uL) : 0.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Heptane, 2,4-dimethyl-	2213-23-2	NBS75K.1	65120	80
Octane, 2-methyl-	3221-61-2	NBS75K.1	5142	64
Heptane, 2,6-dimethyl-	1072-05-5	NBS75K.1	5156	59



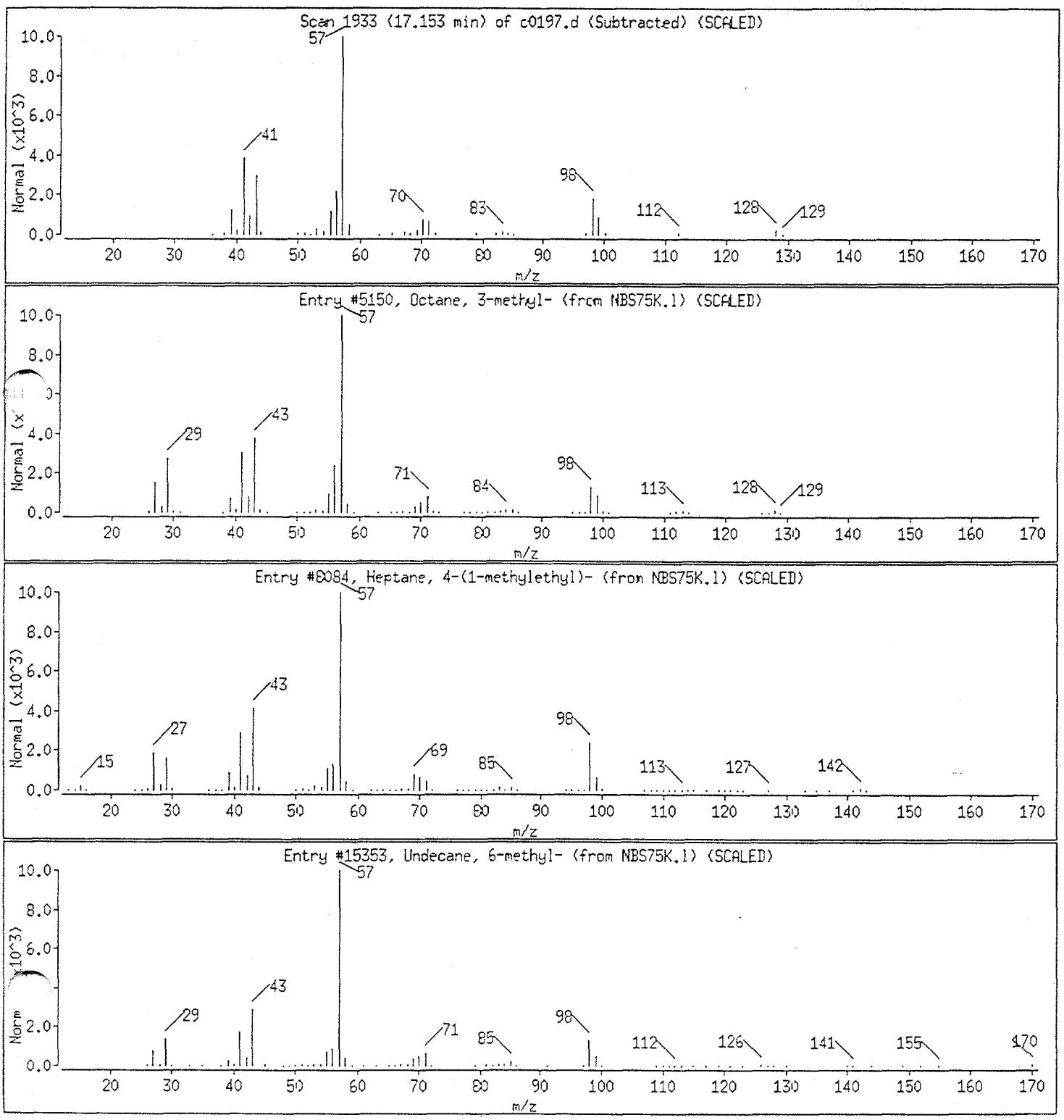






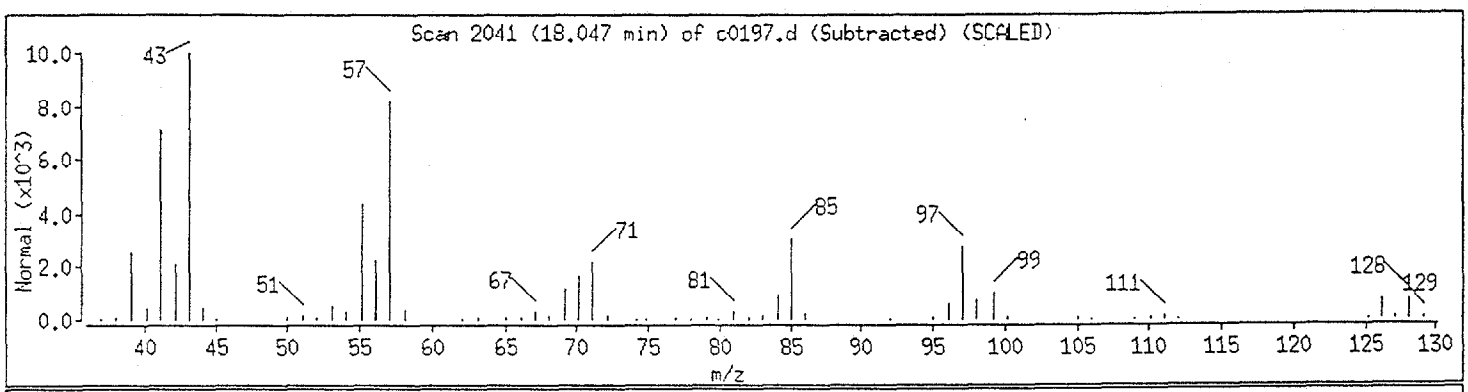
Data File: /chem/aux/msc.i/c111994.b/c0197.d
Date : 19-NOV-94 17:25
Instrument : msc.i
Sample ID : 15226n cljdws075
Column phase : J&W DB_624
Column diameter : 0.53
Volume Injected (uL) : 0.0

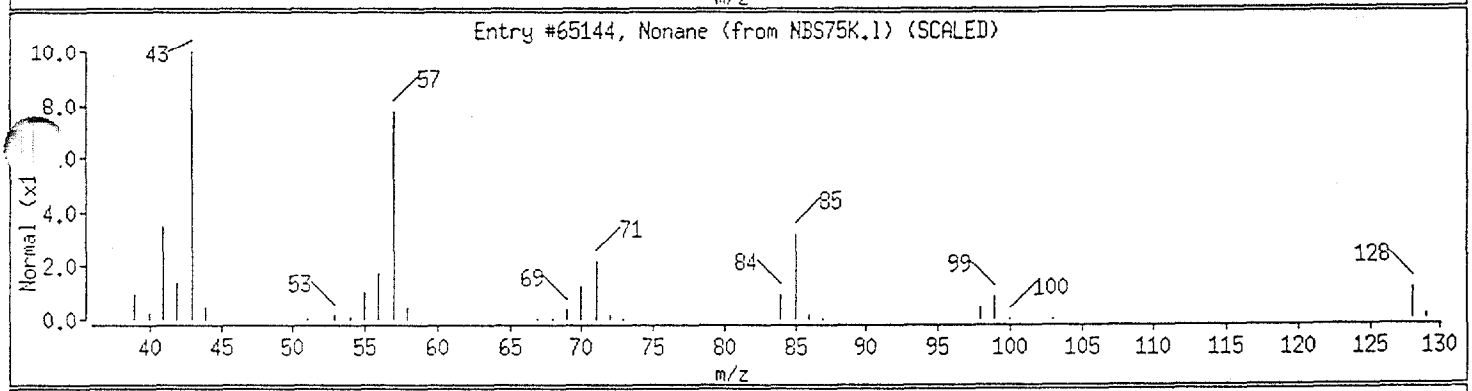
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Octane, 3-methyl-	2216-33-3	NBS75K.1	5150	86
Heptane, 4-(1-methylethyl)-	52896-87-4	NBS75K.1	8084	64
Undecane, 6-methyl-	17302-33-9	NBS75K.1	15353	59



Data File: /chem/aux/msc.i/c111994.b/c0197.d
Date : 19-NOV-94 17:25
Instrument : msc.i
Sample ID : 15226n cljdws075
Column phase : J&W DB_624 Column diameter : 0.53
Volume Injected (uL) : 0.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Nonane	111-84-2	NBS75K.1	65144	89

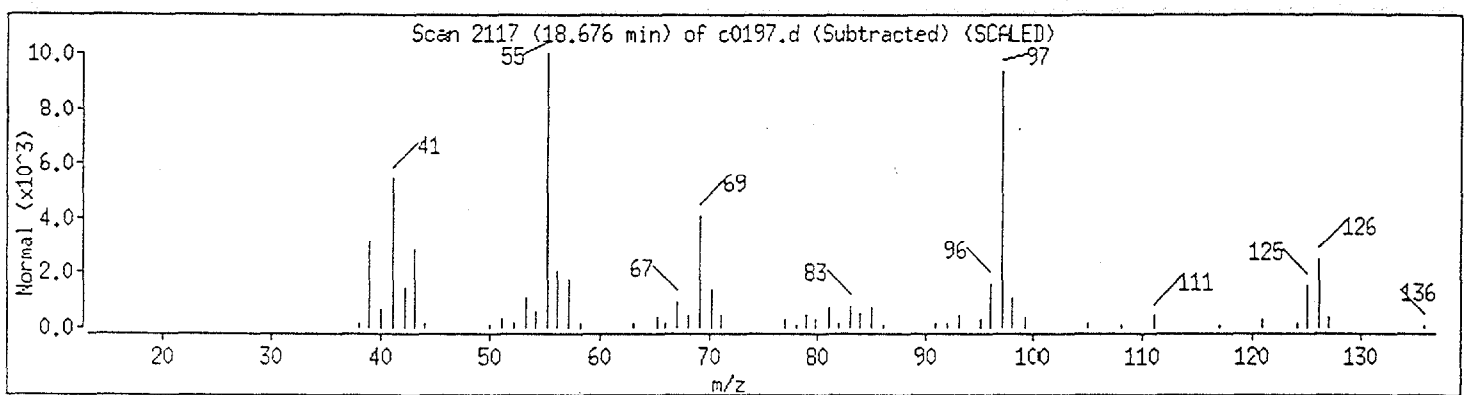


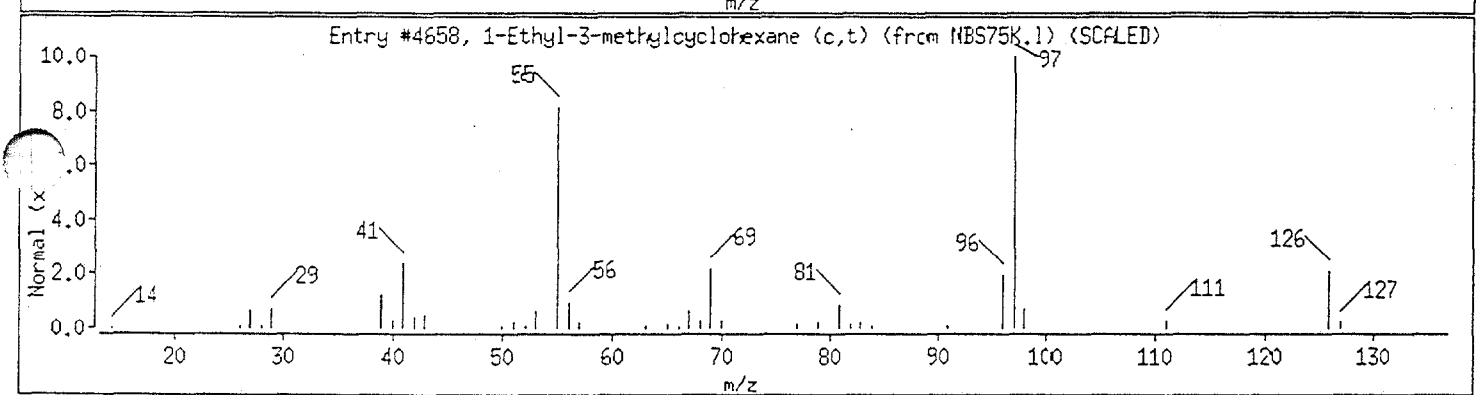


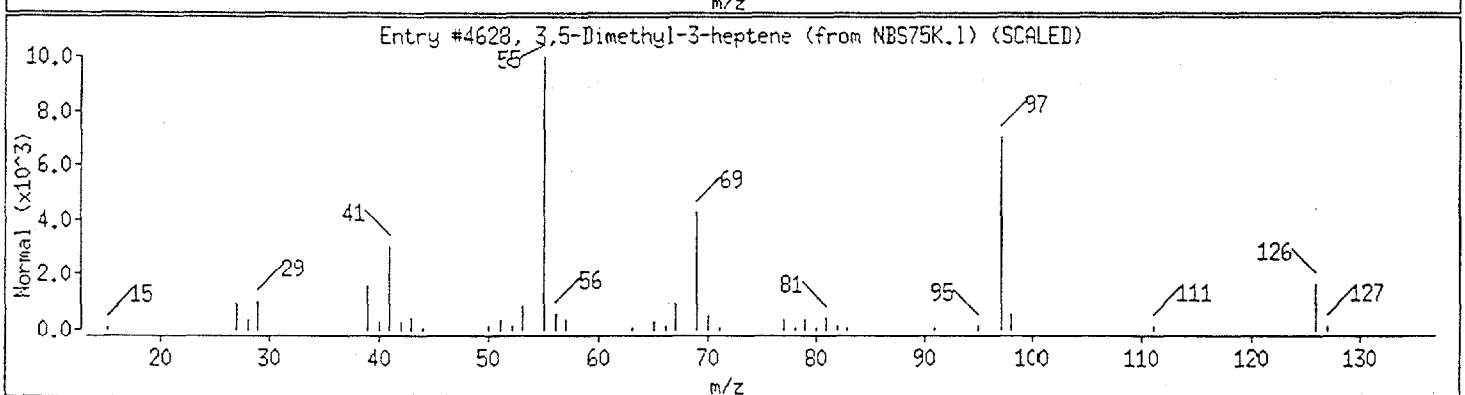
Data File: /chem/aux/msc.i/c111994.b/c0197.d
Date : 19-NOV-94 17:25
Instrument : msc.i
Sample ID : 15226n cljdws075
Column phase : J&W DB_624
Volume Injected (uL) : 0.0

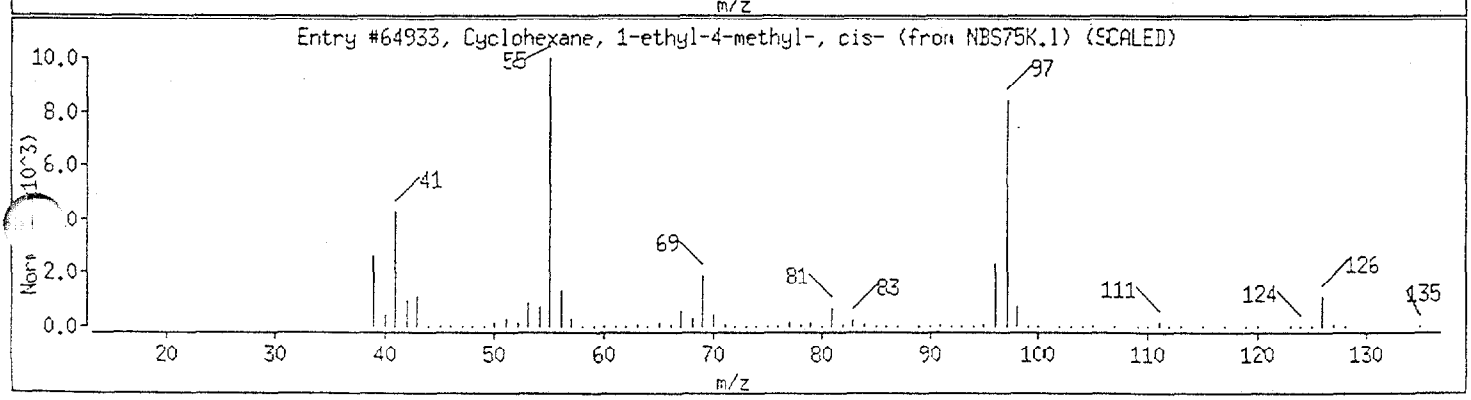
Column diameter : 0.53

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
1-Ethyl-3-methylcyclohexane (c,t)	3728-55-0	NBS75K.1	4658	81
3,5-Dimethyl-3-heptene	59643-68-4	NBS75K.1	4628	68
Cyclohexane, 1-ethyl-4-methyl-, cis-	4926-78-7	NBS75K.1	64933	68





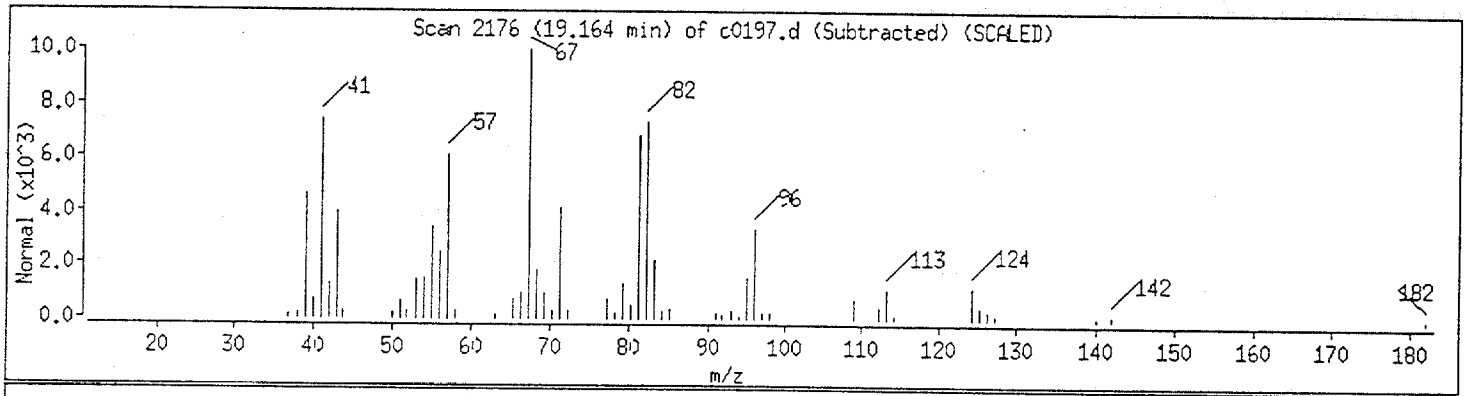


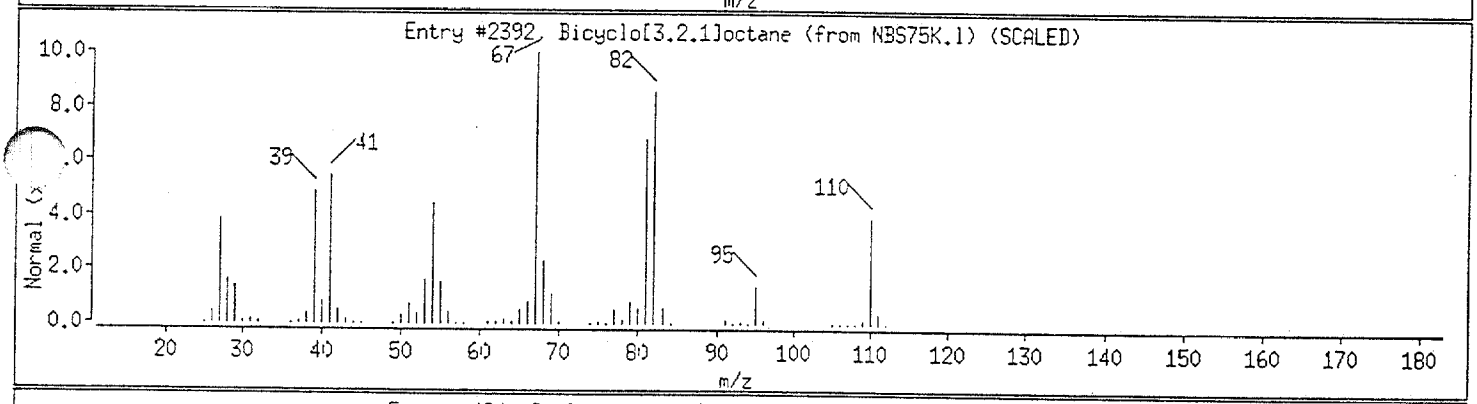


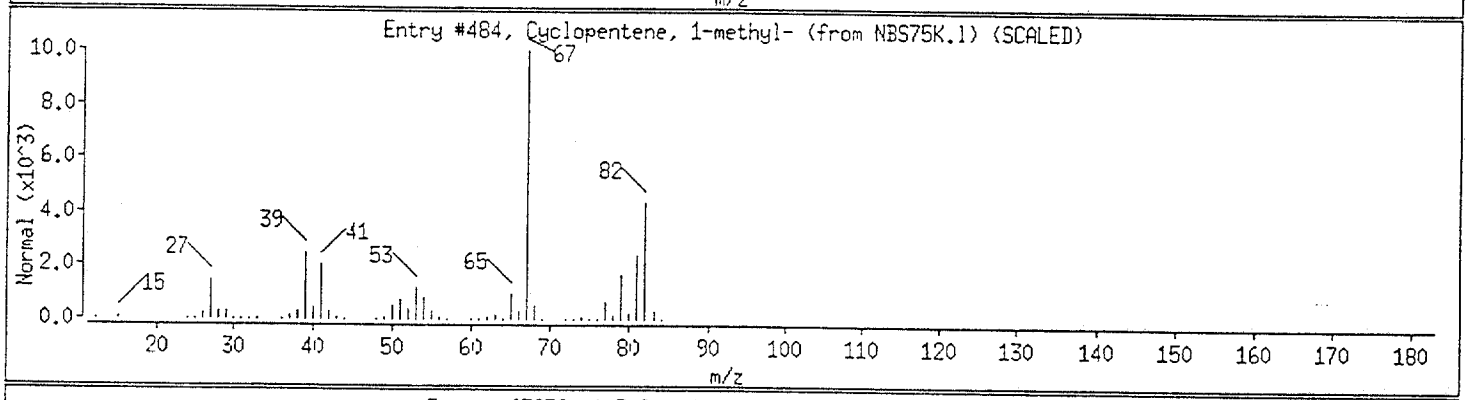
Data File: /chem/aux/msc.i/c111994.b/c0197.d
Date : 19-NOV-94 17:25
Instrument : msc.i
Sample ID : 15226n cljdws075
Column phase : J&W DB_624
Volume Injected (uL) : 0.0

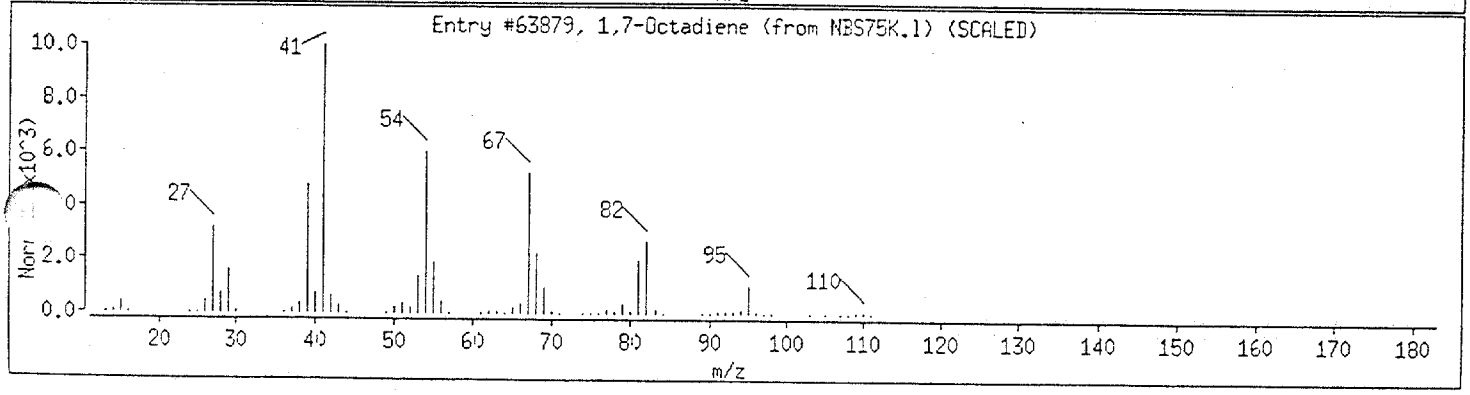
Column diameter : 0.53

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Bicyclo[3.2.1]octane	6221-55-2	NBS75K.1	2392	47
Cyclopentene, 1-methyl-	693-89-0	NBS75K.1	484	46
1,7-Octadiene	3710-30-3	NBS75K.1	63879	43



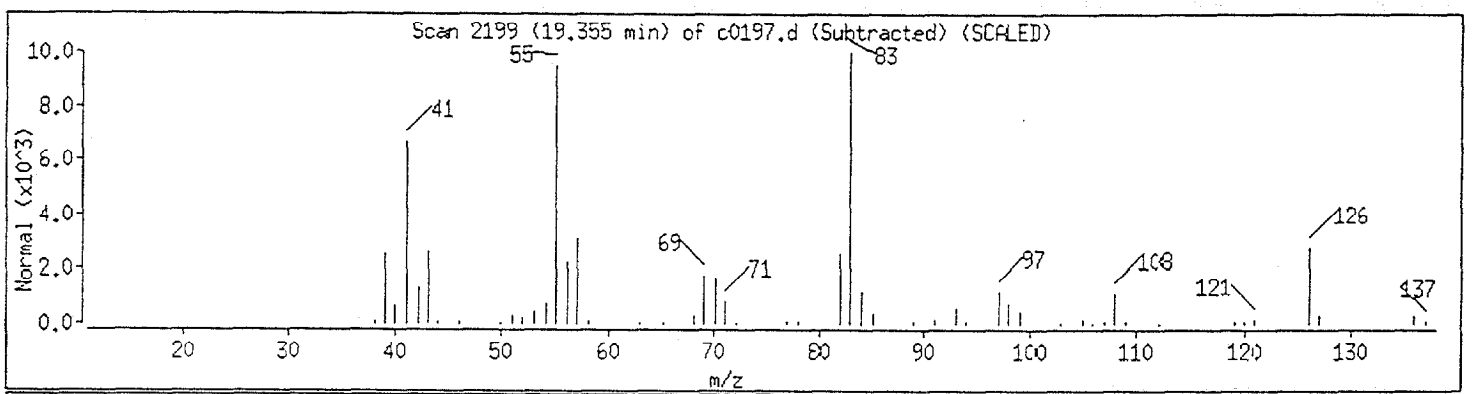


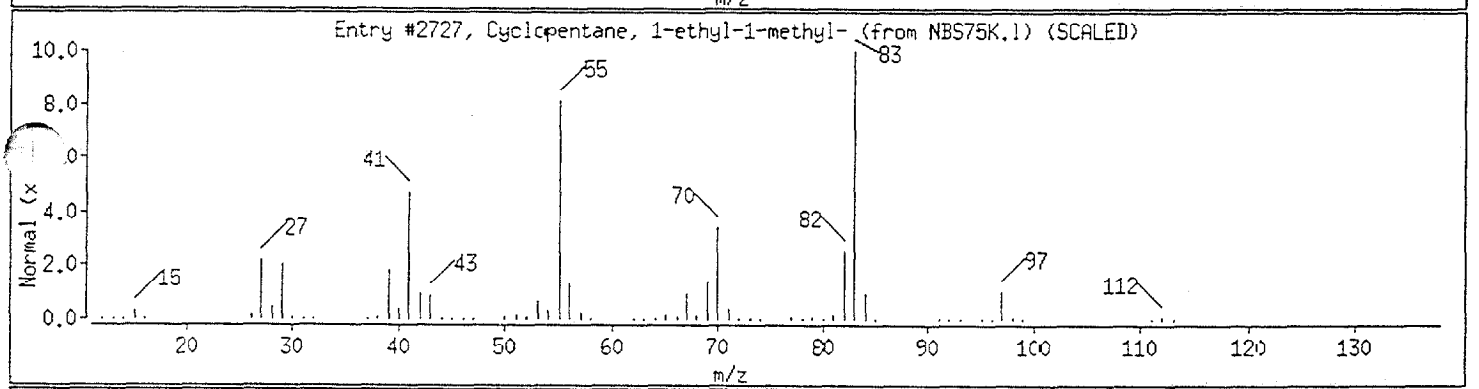


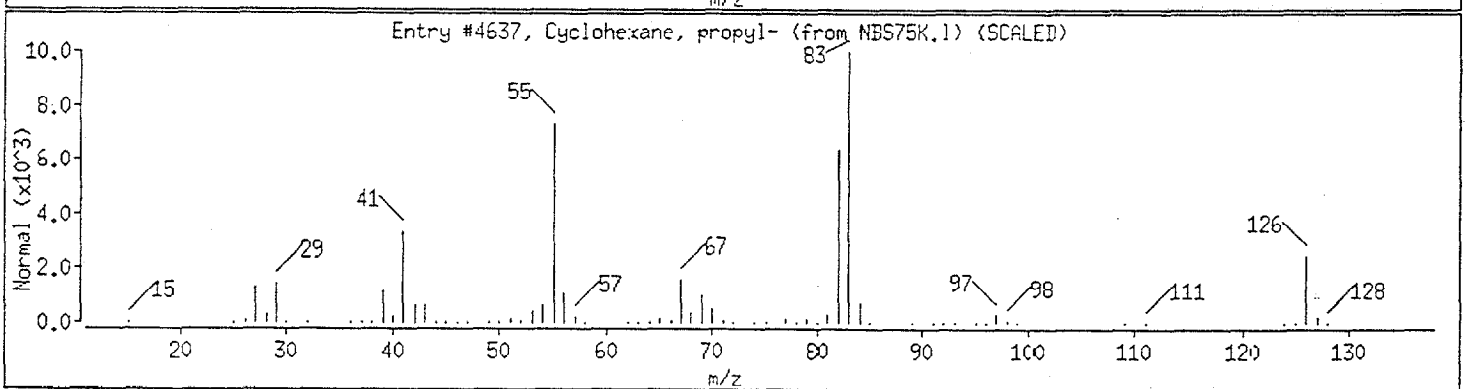


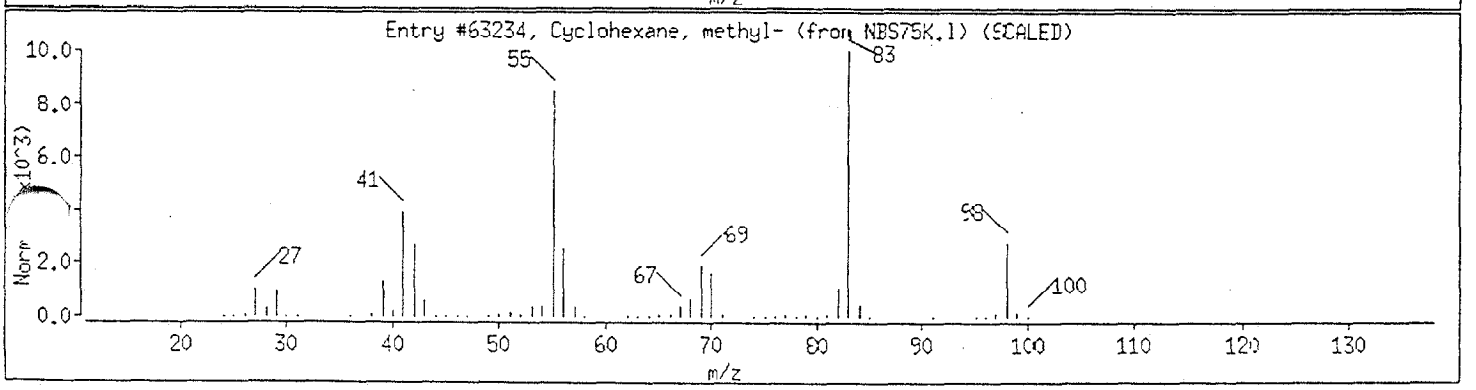
Data File: /chem/aux/msc.i/c111994.b/c0197.d
Date : 19-NOV-94 17:25
Instrument : msc.i
Sample ID : 15226n cljdws075
Column phase : J&W DB_624
Column diameter : 0.53
Volume Injected (uL) : 0.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Cyclopentane, 1-ethyl-1-methyl-	16747-50-5	NBS75K.1	2727	59
Cyclohexane, propyl-	1678-92-8	NBS75K.1	4637	58
Cyclohexane, methyl-	108-87-2	NBS75K.1	63234	50





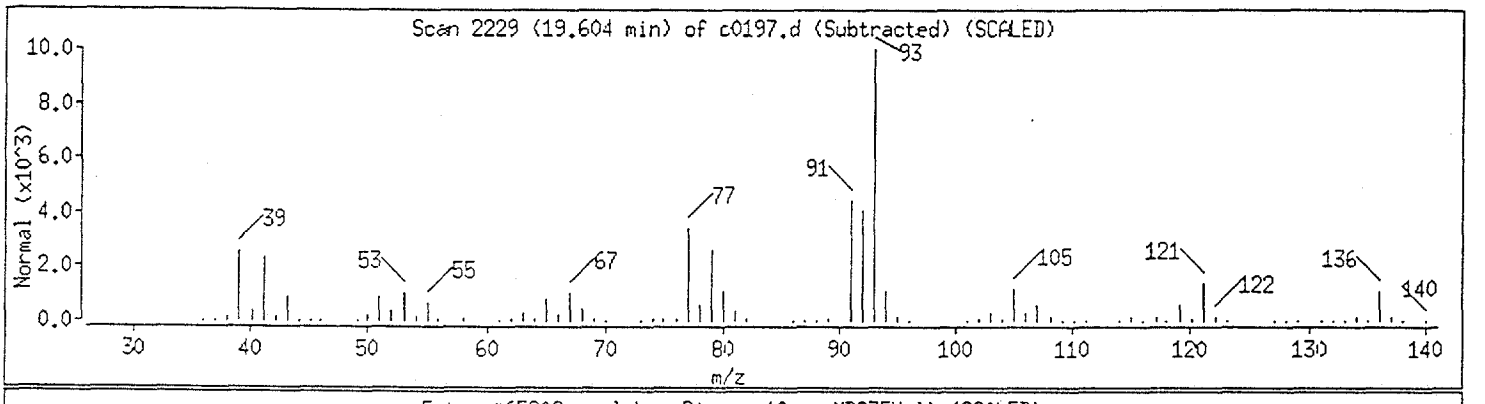


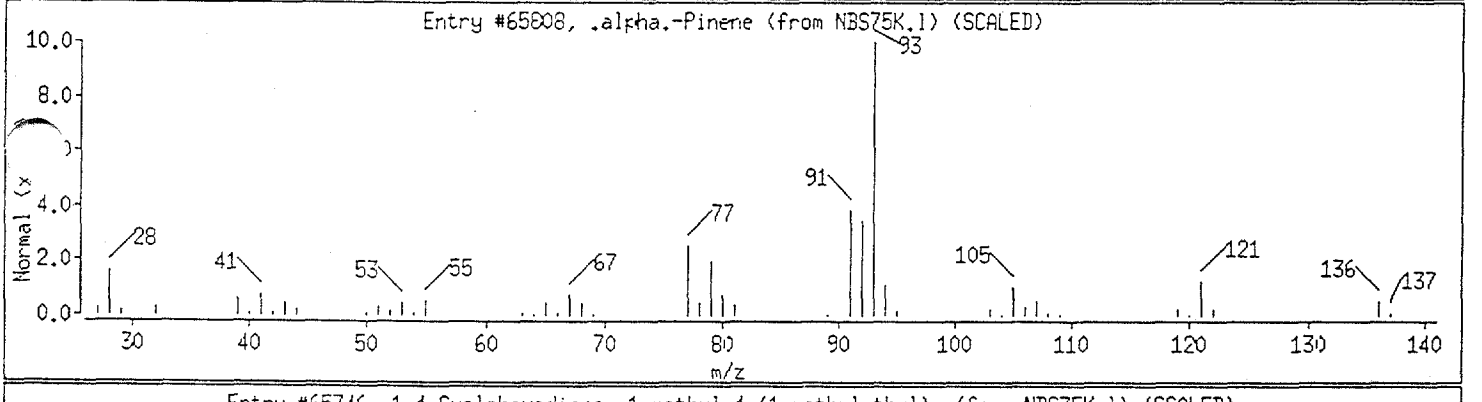


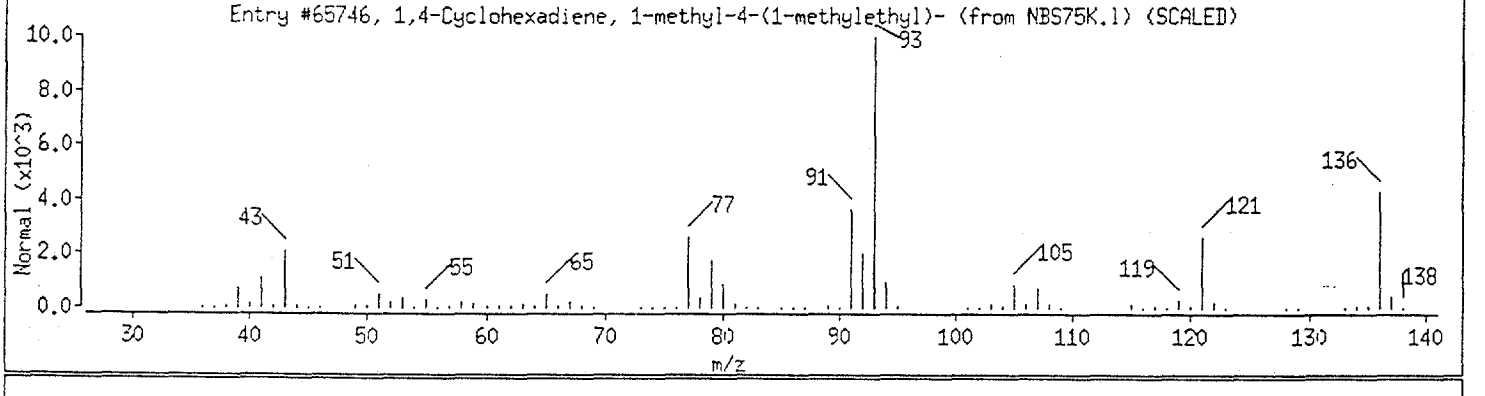
Data File: /chem/aux/msc.i/c111994.b/c0197.d
Date : 19-NOV-94 17:25
Instrument : msc.i
Sample ID : 15226n cljdws075
Column phase : J&W DB_624
Volume Injected (uL) : 0.0

Column diameter : 0.53

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
.alpha.-Pinene	80-56-8	NBS75K.1	65808	97
1,4-Cyclohexadiene, 1-methyl-4-(1-methyl	99-85-4	NBS75K.1	65746	90

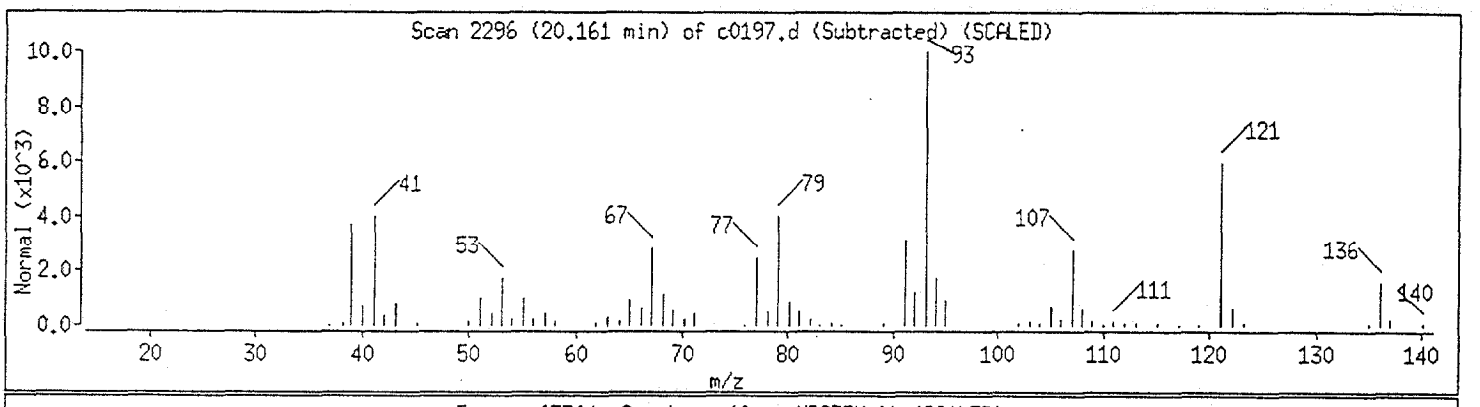


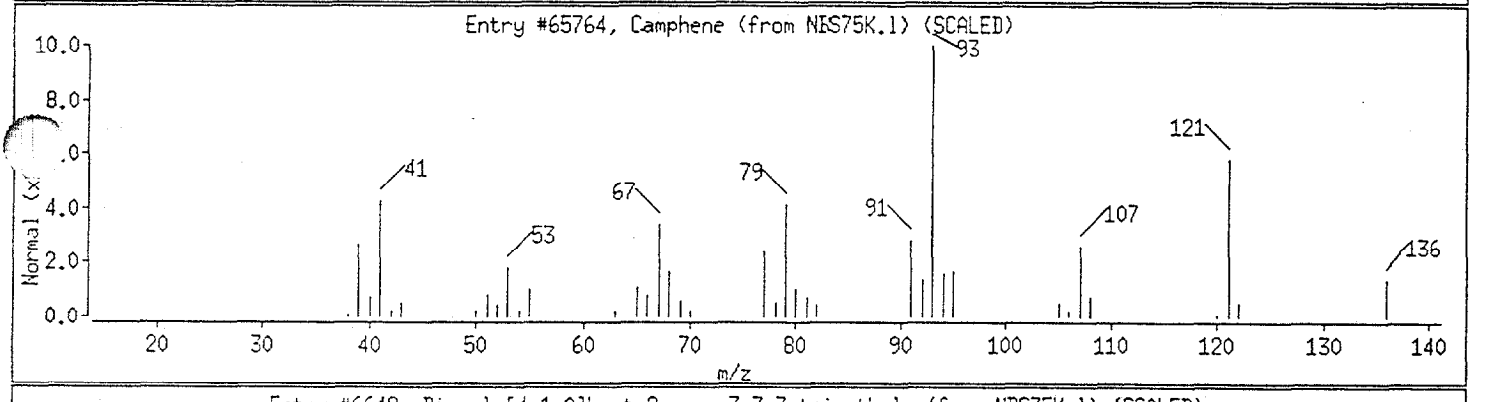


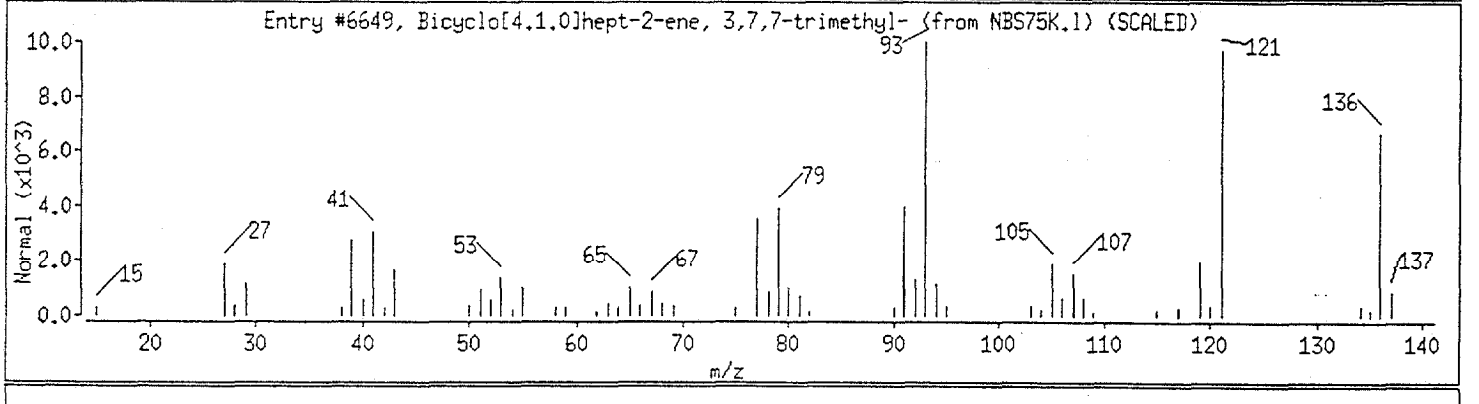


Data File: /chem/aux/msc.i/c111994.b/c0197.d
Date : 19-NOV-94 17:25
Instrument : msc.i
Sample ID : 15226n cljdws075
Column phase : J&W DB_624
Column diameter : 0.53
Volume Injected (uL) : 0.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Camphene	79-92-5	NBS75K.1	65764	95
Bicyclo[4.1.0]hept-2-ene, 3,7,7-trimethy	554-61-0	NBS75K.1	6649	90



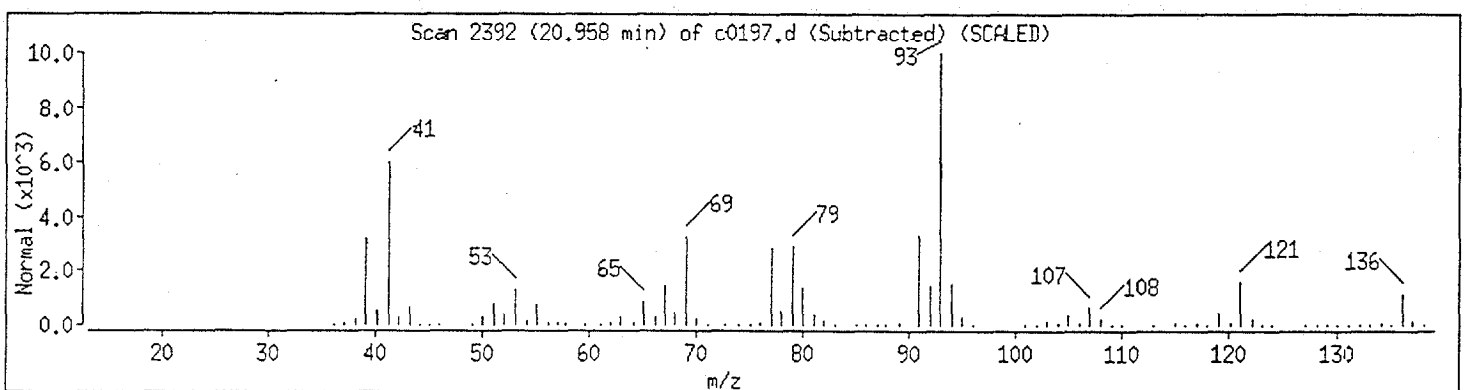


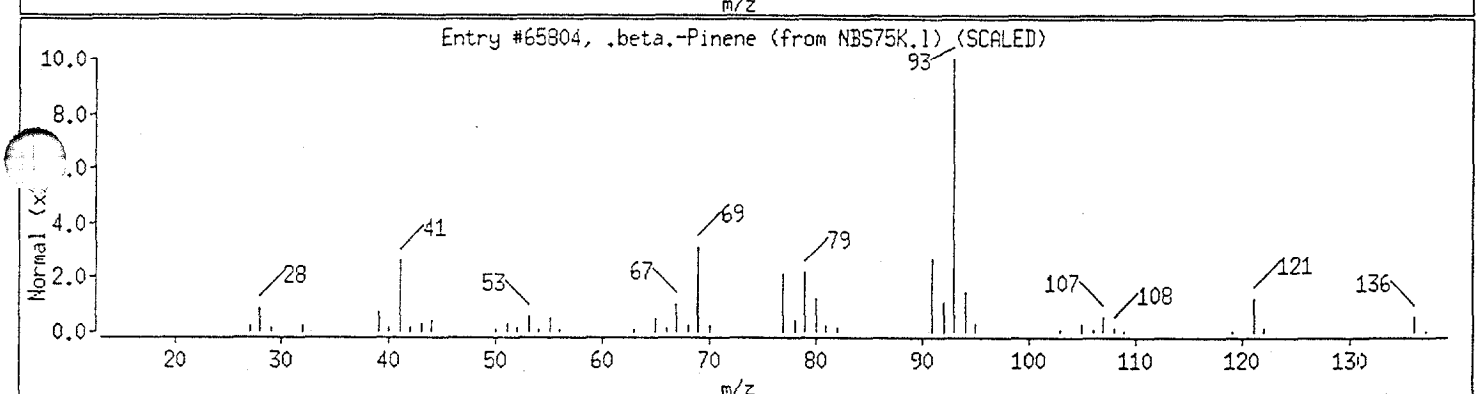


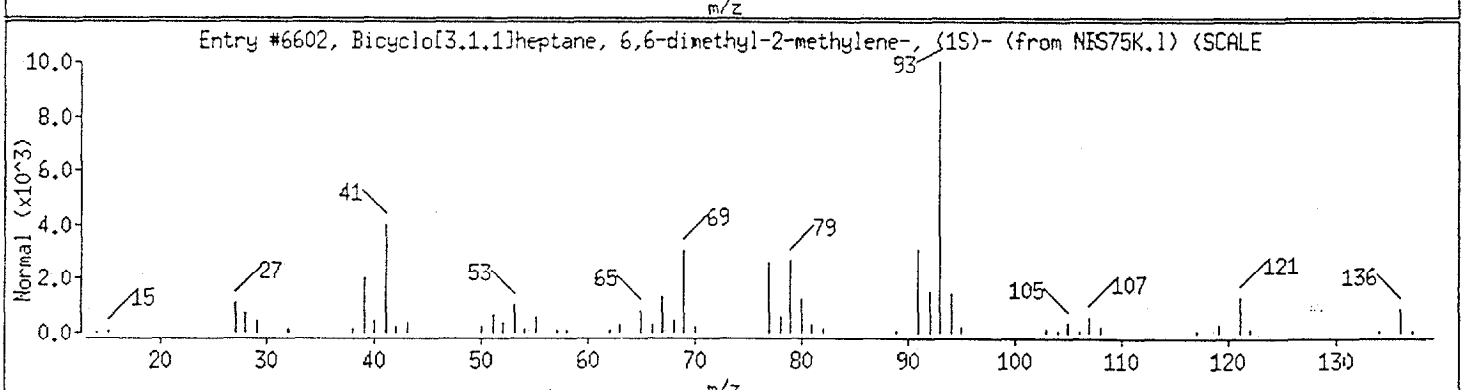
Data File: /chem/aux/msc.i/c111994.b/c0197.d
Date : 19-NOV-94 17:25
Instrument : msc.i
Sample ID : 15226n cljdws075
Column phase : J&W DB_624
Volume Injected (uL) : 0.0

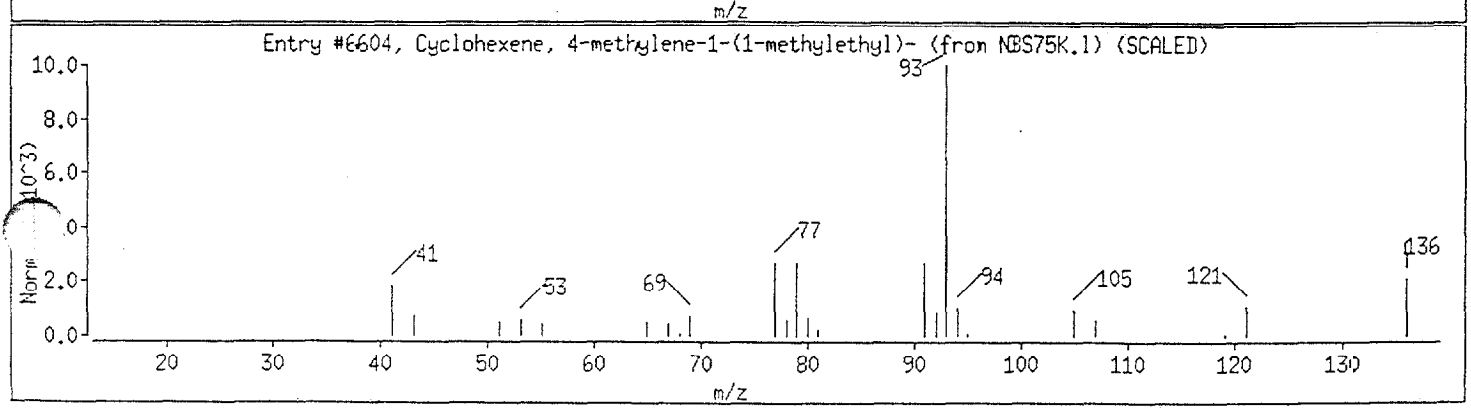
Column diameter : 0.53

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
.beta.-Pinene	127-91-3	NBS75K.1	65804	96
Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-me	18172-67-3	NBS75K.1	6602	96
Cyclohexene, 4-methylene-1-(1-methylethy	99-84-3	NBS75K.1	6604	91





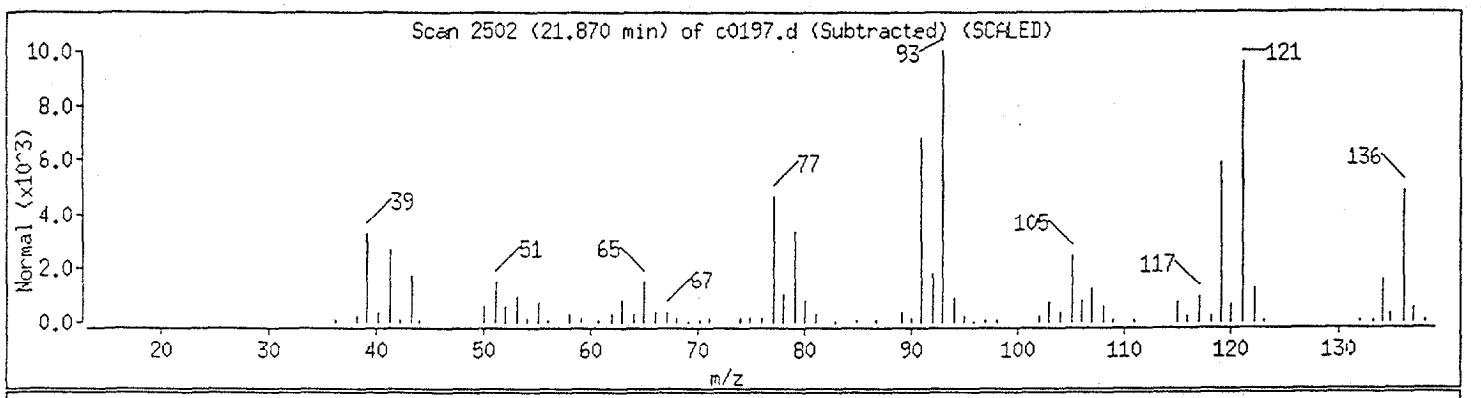


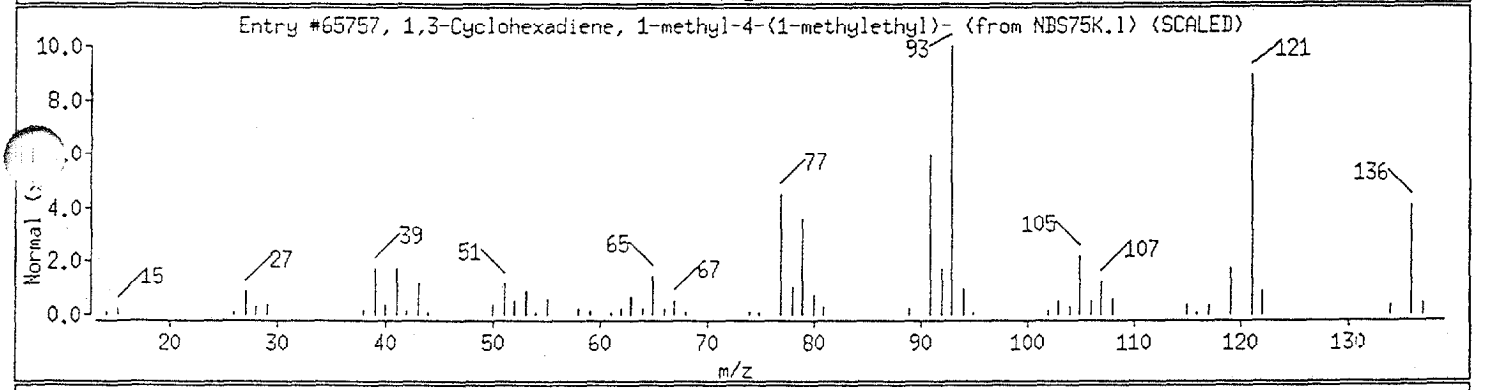


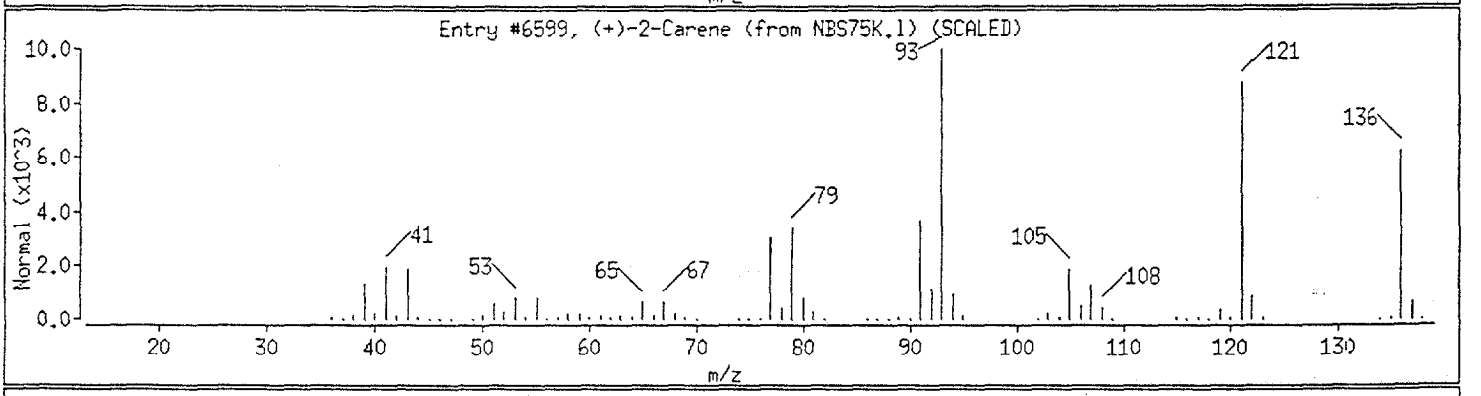
Data File: /chem/aux/msc.i/c111994.b/c0197.d
Date : 19-NOV-94 17:25
Instrument : msc.i
Sample ID : 15226n cljdws075
Column phase : J&W DB_624
Volume Injected (uL) : 0.0

Column diameter : 0.53

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
1,3-Cyclohexadiene, 1-methyl-4-(1-methyl	99-86-5	NBS75K.1	65757	96
(+)-2-Carene	0-00-0	NBS75K.1	6599	93

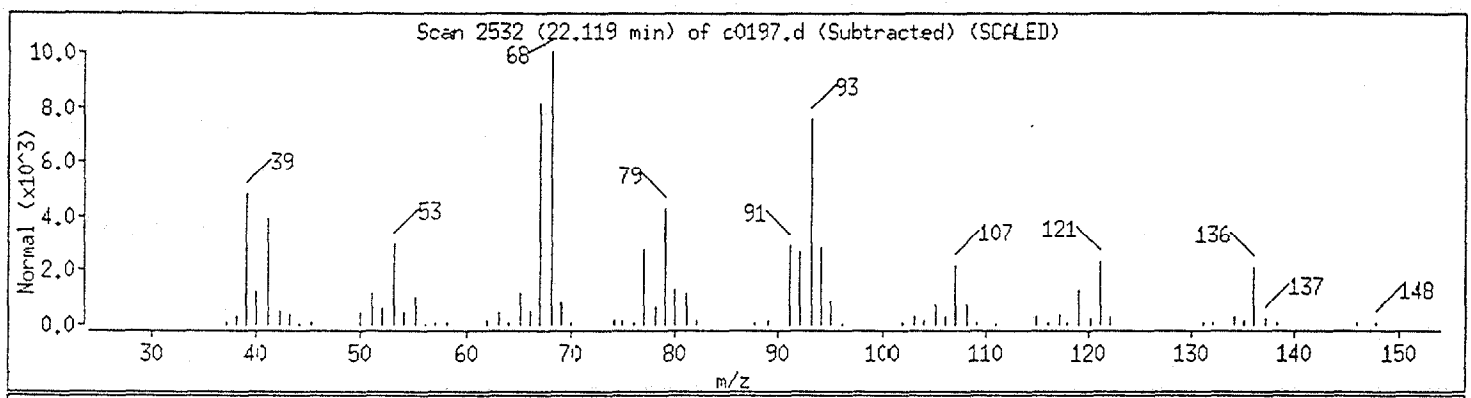


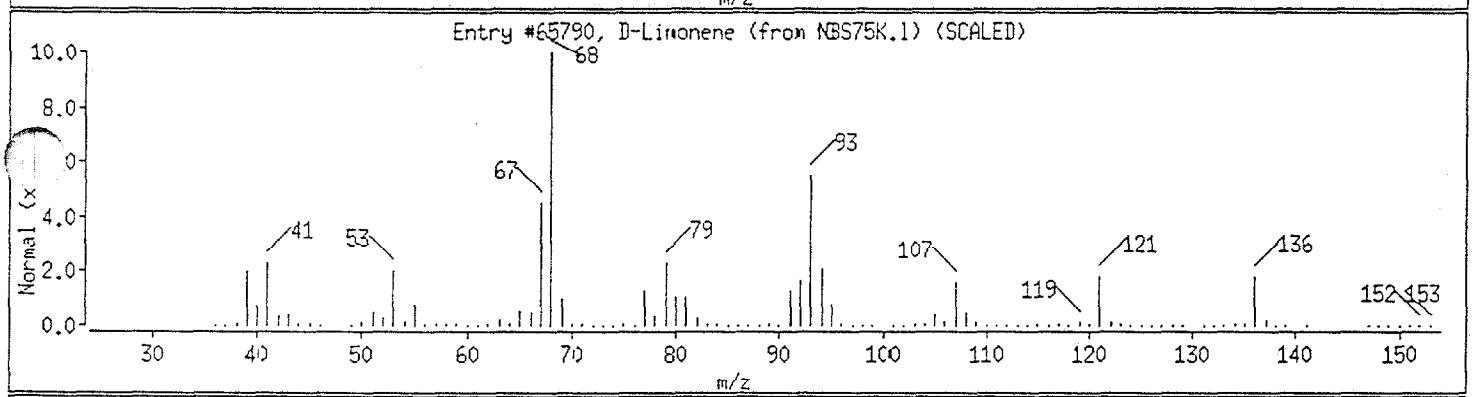


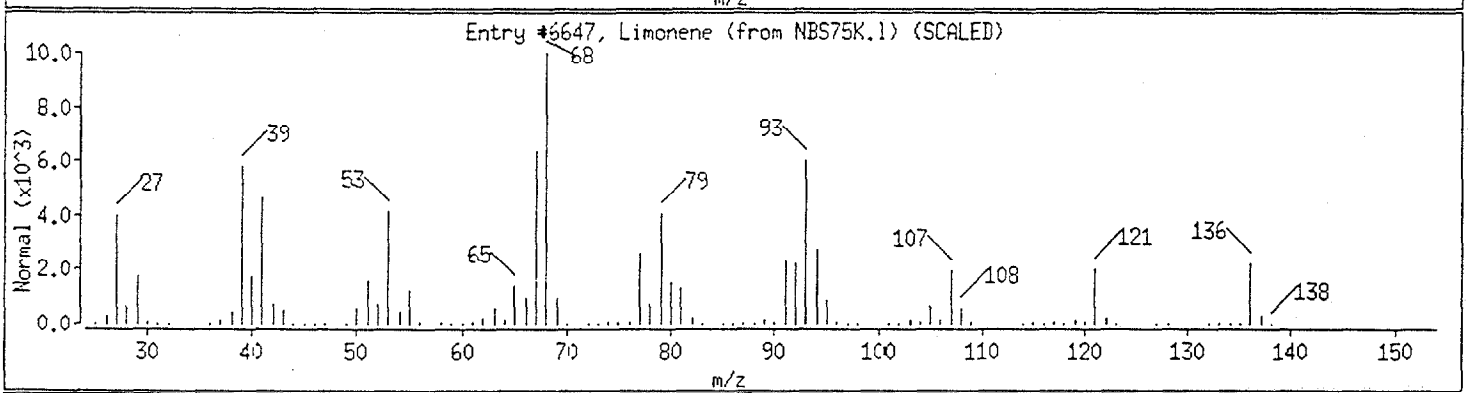


Data File: /chem/aux/msc.i/c111994.b/c0197.d
Date : 19-NOV-94 17:25
Instrument : msc.i
Sample ID : 15226n cljdws075
Column phase : J&W DB_624
Column diameter : 0.53
Volume Injected (uL) : 0.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
D-Limonene	5989-27-5	NBS75K.1	65790	94
Limonene	138-86-3	NBS75K.1	6647	94



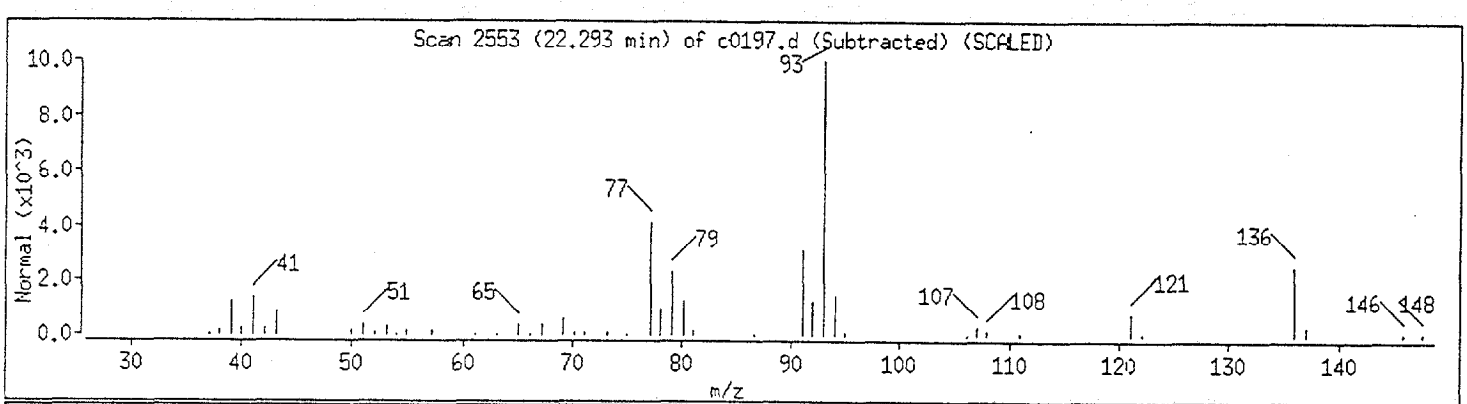


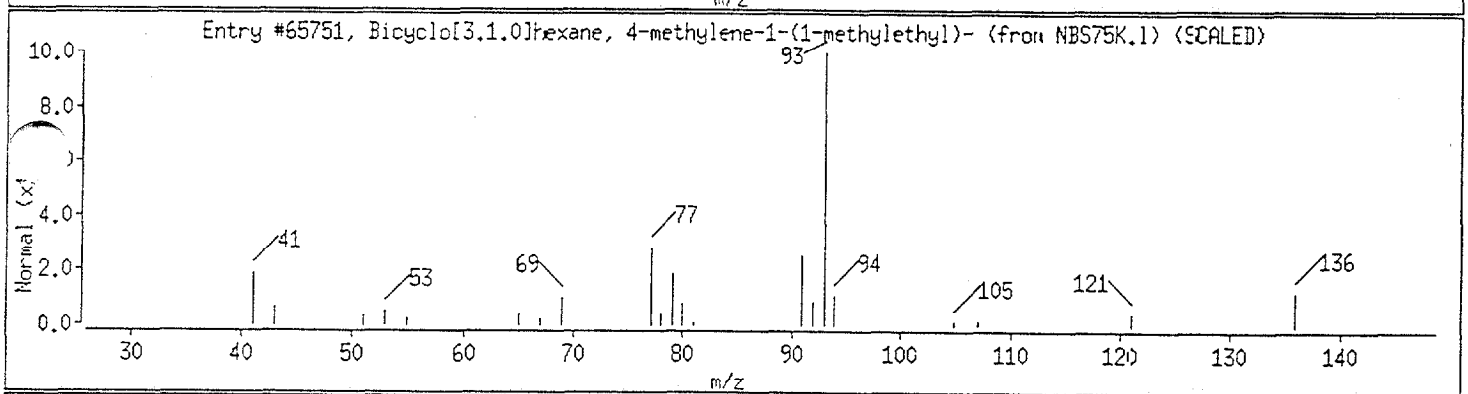


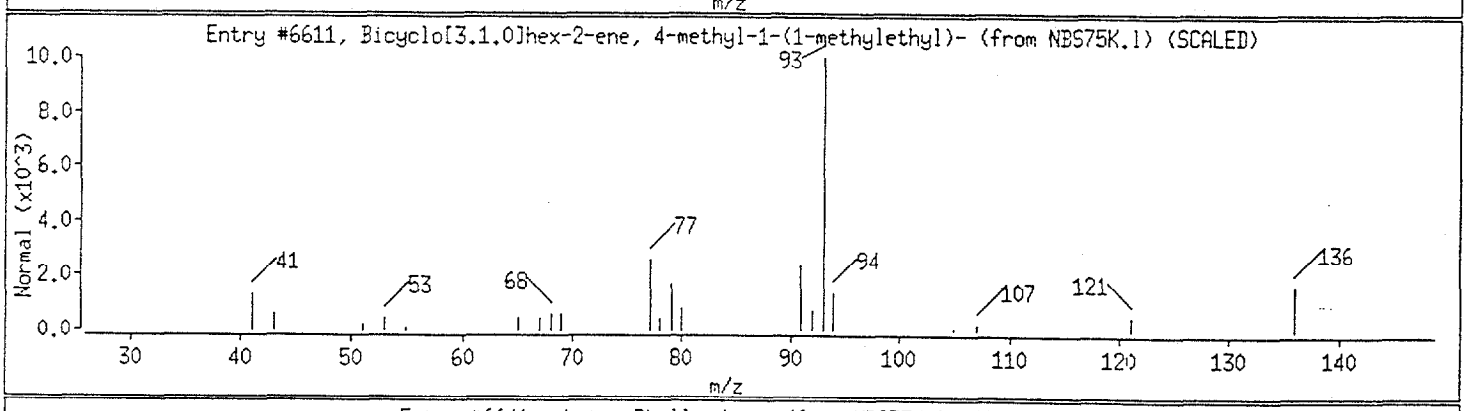
Data File: /chem/aux/msc.i/c111994.b/c0197.d
Date : 19-NOV-94 17:25
Instrument : msc.i
Sample ID : 15226n cljdws075
Column phase : J&W DB_624
Volume Injected (uL) : 0.0

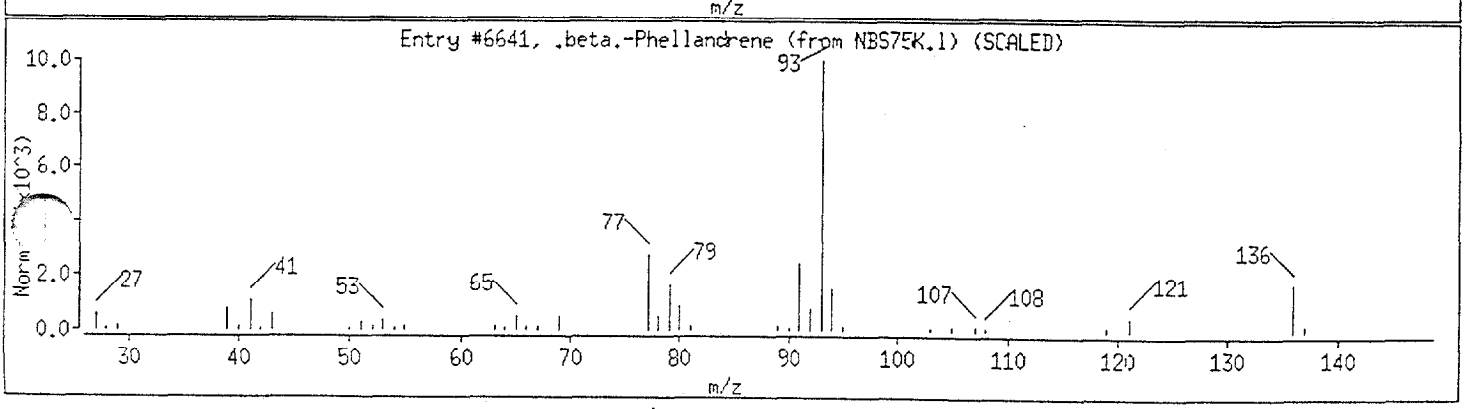
Column diameter : 0.53

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Bicyclo[3.1.0]hexane, 4-methylene-1-(1-m	3387-41-5	NBS75K.l	65751	91
Bicyclo[3.1.0]hex-2-ene, 4-methyl-1-(1-m	28634-89-1	NBS75K.l	6611	91
.beta.-Phellandrene	555-10-2	NBS75K.l	6641	91









1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CLJDWS102

Lab Name: ANALYTICAL SERVICES CORP. Contract: NFESC

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJDWS~~102~~ 075

Matrix: (soil/water) WATER Lab Sample ID: JN4741V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: C0214

Level: (low/med) LOW Date Received: 11/10/94

% Moisture: not dec. _____ Date Analyzed: 11/20/94

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: ~~######~~ 10000

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	50000	U
74-83-9	Bromomethane	50000	U
75-01-4	Vinyl Chloride	50000	U
75-00-3	Chloroethane	50000	U
75-09-2	Methylene Chloride	50000	U
67-64-1	Acetone	100000	U
75-15-0	Carbon Disulfide	50000	U
75-35-4	1,1-Dichloroethene	50000	U
75-34-3	1,1-Dichloroethane	50000	U
67-66-3	Chloroform	50000	U
107-06-2	1,2-Dichloroethane	50000	U
78-93-3	2-Butanone	50000	U
71-55-6	1,1,1-Trichloroethane	50000	U
56-23-5	Carbon Tetrachloride	50000	U
75-27-4	Bromodichloromethane	50000	U
78-87-5	1,2-Dichloropropane	50000	U
10061-01-5	cis-1,3-Dichloropropene	50000	U
79-01-6	Trichloroethene	50000	U
124-48-1	Dibromochloromethane	50000	U
79-00-5	1,1,2-Trichloroethane	50000	U
71-43-2	Benzene	50000	U
10061-02-6	trans-1,3-Dichloropropene	50000	U
75-25-2	Bromoform	50000	U
108-10-1	Methyl-iso-butyl ketone	100000	U
591-78-6	2-Hexanone	50000	U
127-18-4	Tetrachloroethylene	50000	U
79-34-5	1,1,2,2-Tetrachloroethane	50000	U
108-88-3	Toluene	40000	J
108-90-7	Chlorobenzene	50000	U
100-41-4	Ethylbenzene	50000	U
100-42-5	Styrene	50000	U
1330-20-7	Xylene (total)	13000	BJ
156-60-5	1,2-Trans-dichloroethylene	50000	U

00032

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CLJDWS102

Lab Name: ANALYTICAL SERVICES CORP. Contract: NFESC

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJDWS~~102~~ 075

Matrix: (soil/water) WATER Lab Sample ID: JN4741V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: C0214

Level: (low/med) LOW Date Received: 11/10/94

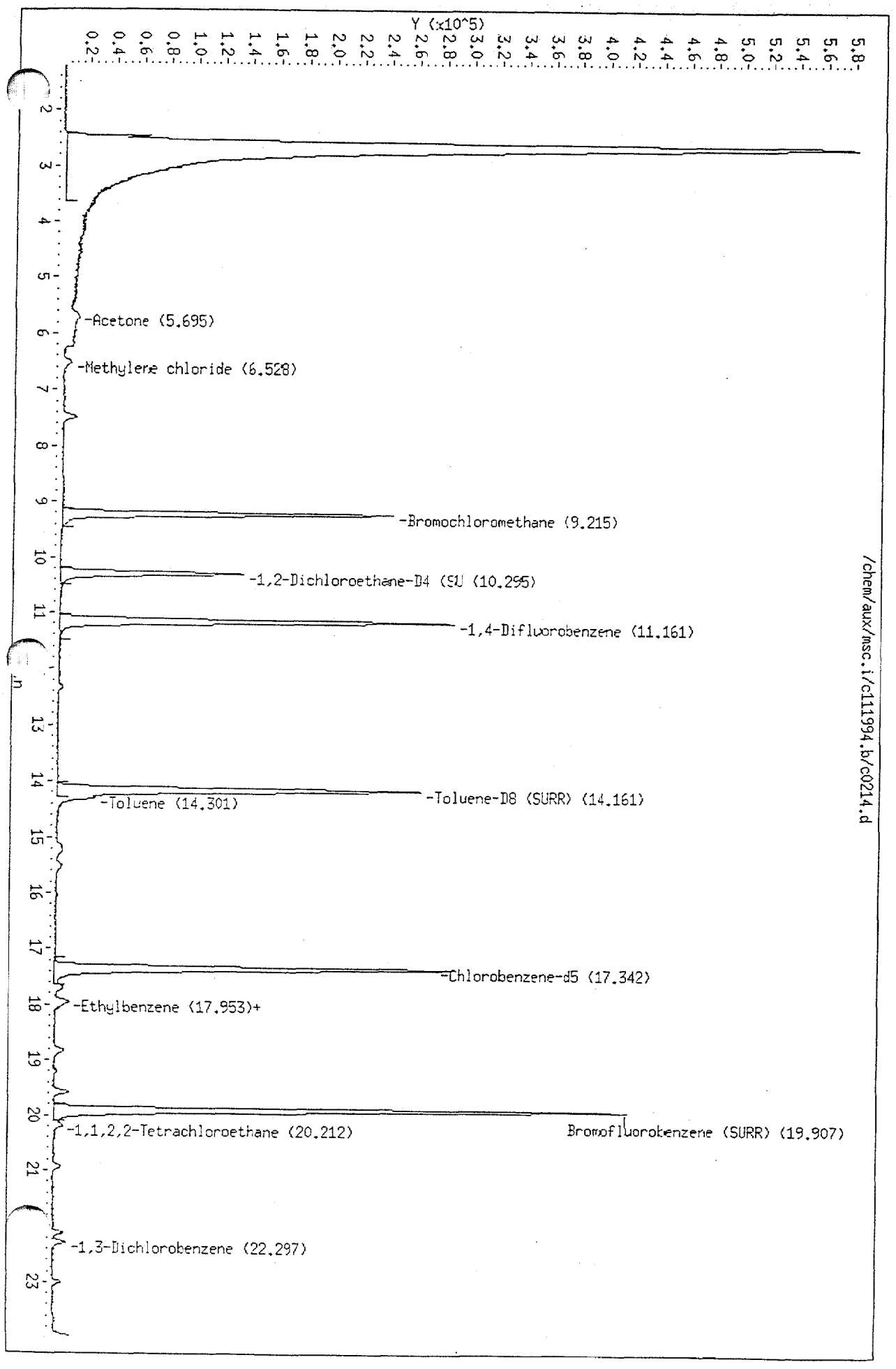
% Moisture: not dec. _____ Date Analyzed: 11/20/94

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: ~~######~~ 10000

Soil Extract Volume: N/A (uL) Soil Aliquot Volume: N/A (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/aux/msc.i/c111994.b/c0214.d
Date : 20-NOV-94 02:18
Instrument : msc.i
Sample ID ; 1522bn cljdws102
Column phase : J&W DB_624
Volume Injected (uL) : 0.0

Column diameter : 0.53

Data File: /chem/aux/msc.i/c111994.b/c0214.d
Report Date: 21-Nov-1994 07:59

Analytical Services Corp.

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/aux/msc.i/c111994.b/c0214.d
Lab. Id. :
Quant Type: ISTD
Inj Date : 20-NOV-94 02:18
Autotune Date: {
Operator : dana
Inst ID: msc.i
Smp Info : 15226n cljdws102
Misc Info : jn4741v,n1v4036,l:m2,5.00,5.00:10000,
Comment :
Method : /chem/aux/msc.i/c111994.b/8240ambic.m
Meth Date : 21-Nov-1994 07:53 jeff
Cal Date : 19-NOV-94 16:20
Cal File: c0195.d
Als bottle: 41
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/l)	FINAL (ug/l)
	Acetone	43.00	5.695	(0.618)	3043	3.09	~~3.09(a)~~ MS
9	Methylene chloride	84.00	6.528	(0.708)	4948	1.20	~~1.20(aQ)~~ MS
* 15	Bromochloromethane	128.00	9.215	(1.000)	192667	50.0	
$ 19	1,2-Dichloroethane-D4 (SURR)	65.00	10.295	(1.117)	254501	41.1	41.1
* 22	1,4-Difluorobenzene	114.00	11.161	(1.000)	660682	50.0	
$ 29	Toluene-D8 (SURR)	98.00	14.161	(0.817)	533588	44.9	44.9
30	Toluene	92.00	14.301	(0.825)	29197	3.98	3.98(a)
* 36	Chlorobenzene-d5	117.00	17.342	(1.000)	477926	50.0	
38	Ethylbenzene	106.00	17.953	(1.035)	6400	1.47	~~1.47(a)~~ RT
39	m+p-Xylenes	106.00	17.953	(1.035)	6400	1.26	1.26(aQ)
$ 43	Bromofluorobenzene (SURR)	95.00	19.907	(1.148)	418028	49.5	49.5
44	1,1,2,2-Tetrachloroethane	83.00	20.212	(1.165)	7222	1.13	~~1.13(a)~~ MS
45	1,3-Dichlorobenzene	146.00	22.297	(1.286)	13097	1.16	1.16(a)

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/aux/msc.i/c111994.b/c0214.d

Date : 20-NOV-94 02:18

Instrument : msc.i

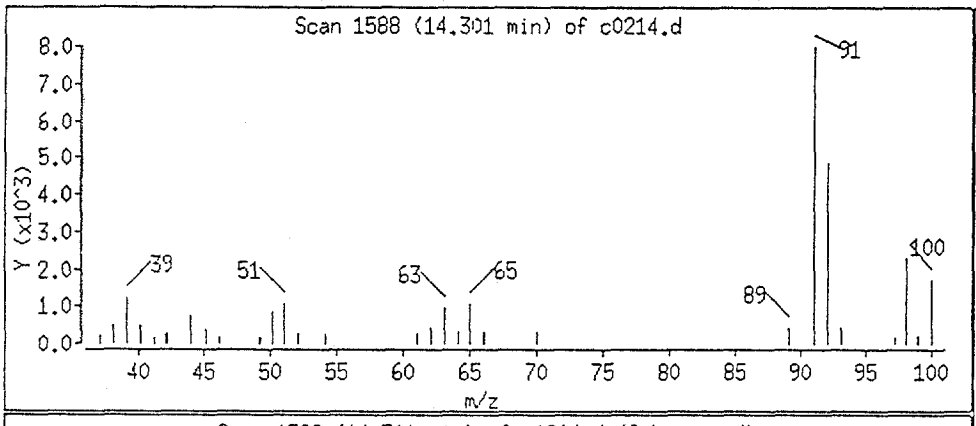
Sample ID : 15226n cljdws102

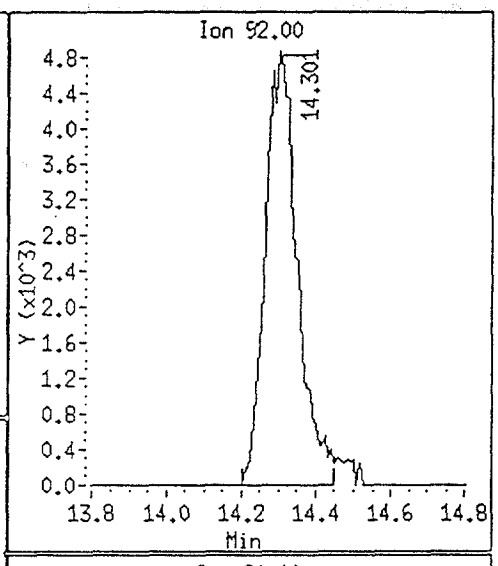
Column phase : J&W DB_624

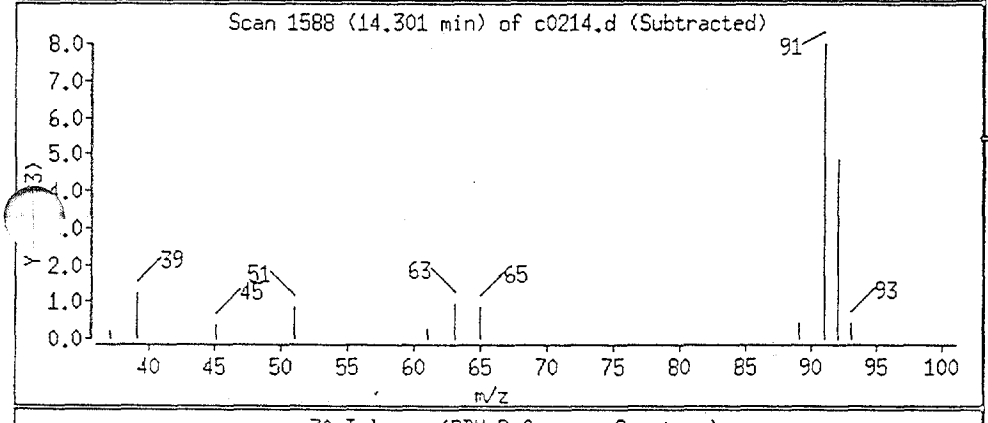
Column diameter : 0.53

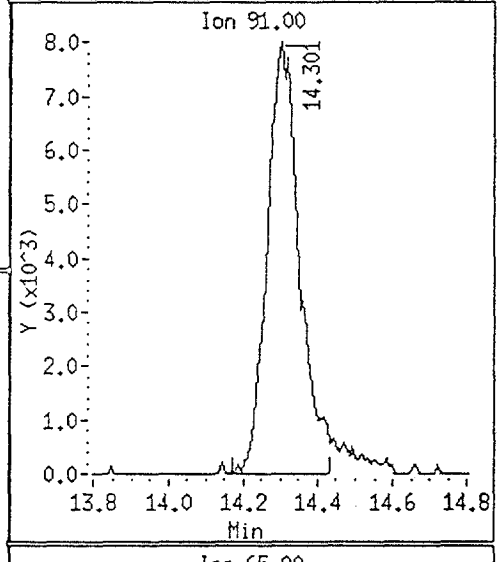
Volume Injected (uL) : 0.0

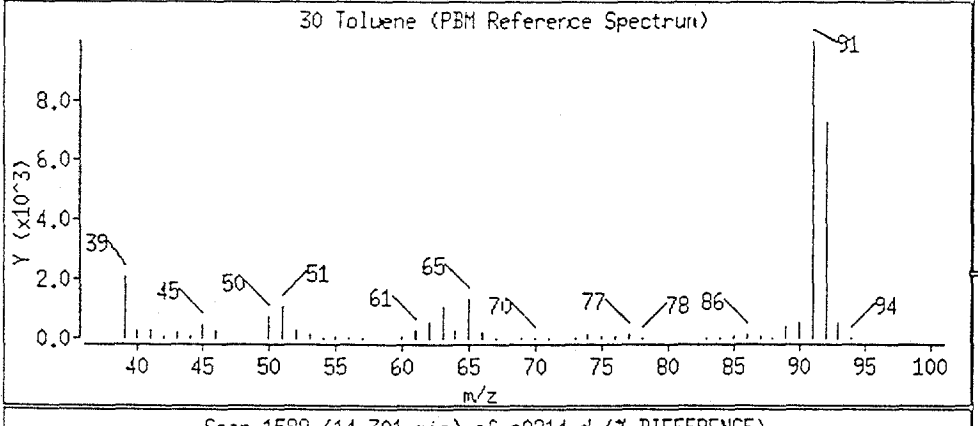
30 Toluene

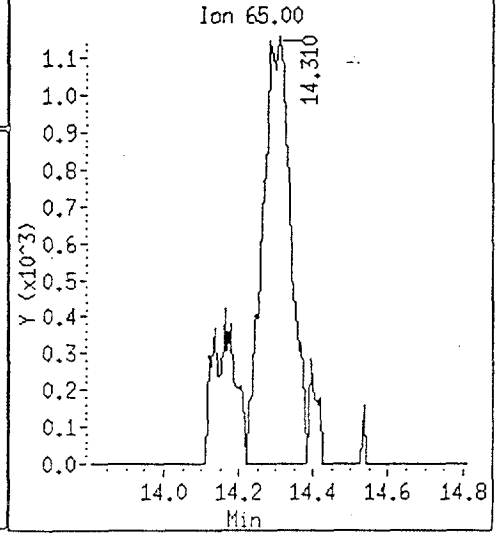


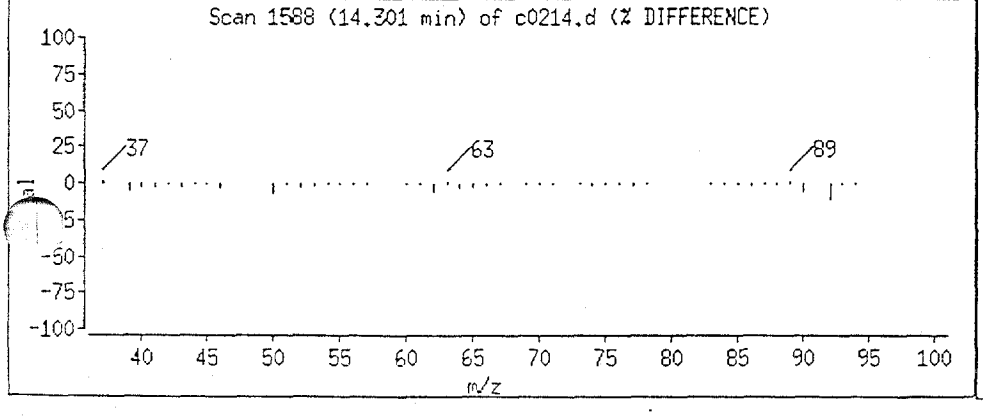












Data File: /chem/aux/msc.i/c111994.b/c0214.d

Date : 20-NOV-94 02:18

Instrument : msc.i

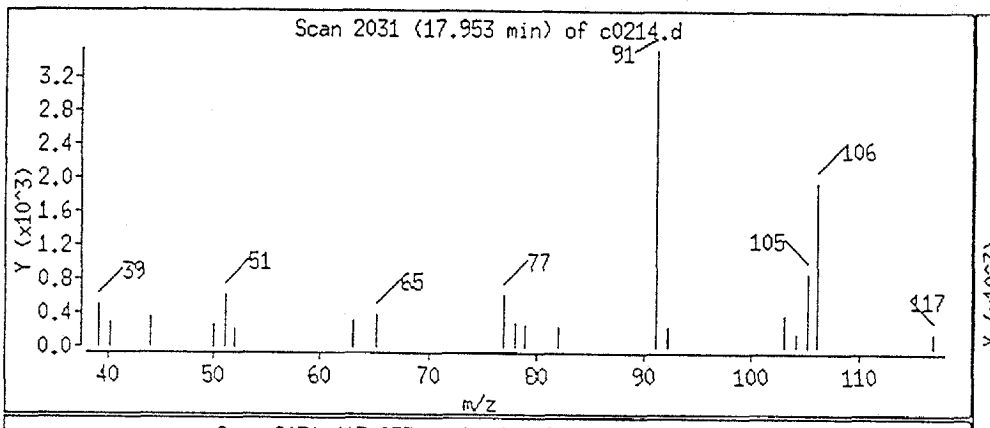
Sample ID : 15226n cljdws102

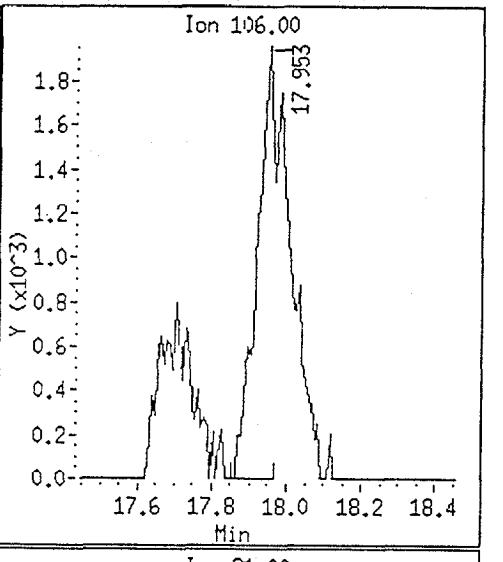
Column phase : J&W DB_624

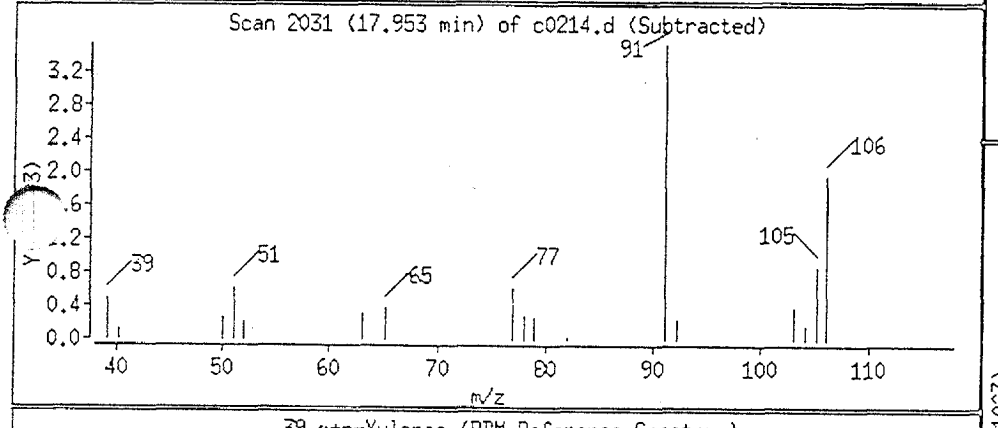
Column diameter : 0.53

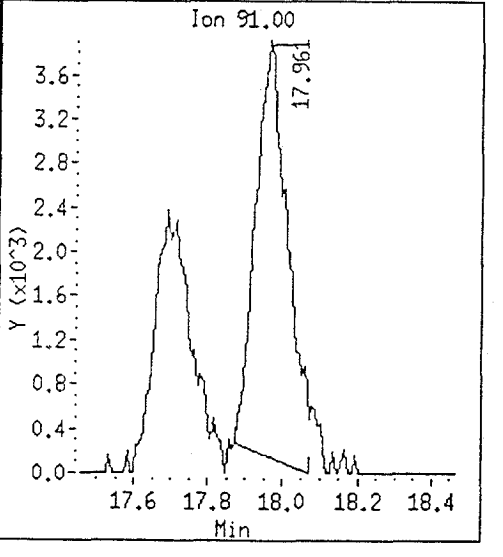
Volume Injected (uL) : 0.0

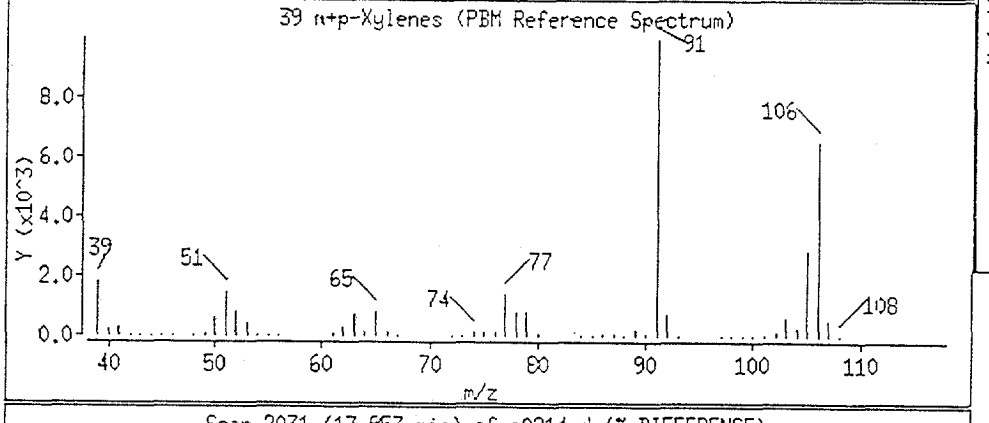
39 m+p-Xylenes

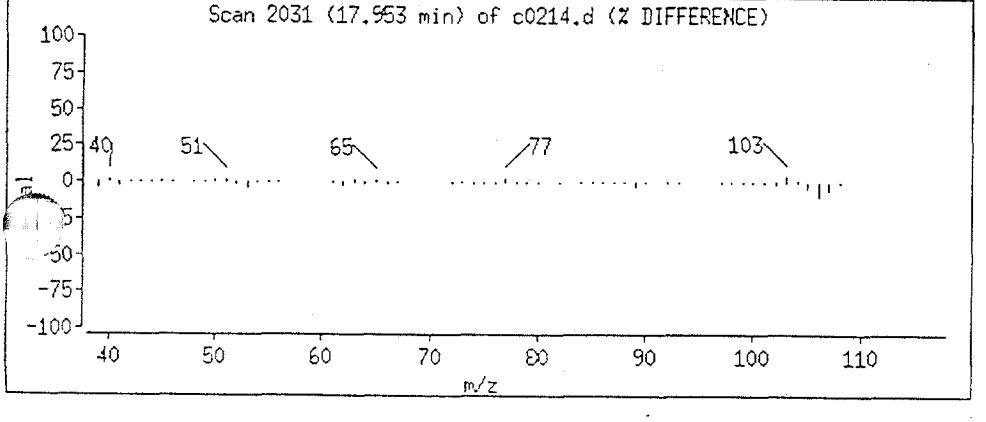












00037
EPA SAMPLE NO.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLJDWS151

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: 45224.N SAS No.: N/A SDG No.: CLJDWS075

Matrix: (soil/water) SOIL Lab Sample ID: JN4742V

Sample wt/vol: 4.08 (g/mL) G Lab File ID: C0189

Level: (low/med) LOW Date Received: 11/10/94

% Moisture: not dec. 7 Date Analyzed: 11/18/94

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl Chloride	6	U
75-00-3	Chloroethane	6	U
75-09-2	Methylene Chloride	540	BE
67-64-1	Acetone	410	E
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	48	
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	18	
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	3	J
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	3	J
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	Methyl-iso-butyl ketone	12	U
591-78-6	2-Hexanone	6	U
127-18-4	Tetrachloroethylene	11	
79-34-5	1,1,2,2-Tetrachloroethane	5	J
108-88-3	Toluene	13	
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	15	
156-60-5	1,2-Trans-dichloroethylene	6	U

00038
EPA SAMPLE NO.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLJDWS151

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJDW5075

Matrix: (soil/water) SOIL Lab Sample ID: JN4742V

Sample wt/vol: 4.08 (g/mL) G Lab File ID: C0189

Level: (low/med) LOW Date Received: 11/10/94

% Moisture: not dec. 7 Date Analyzed: 11/18/94

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: _____ (uL)

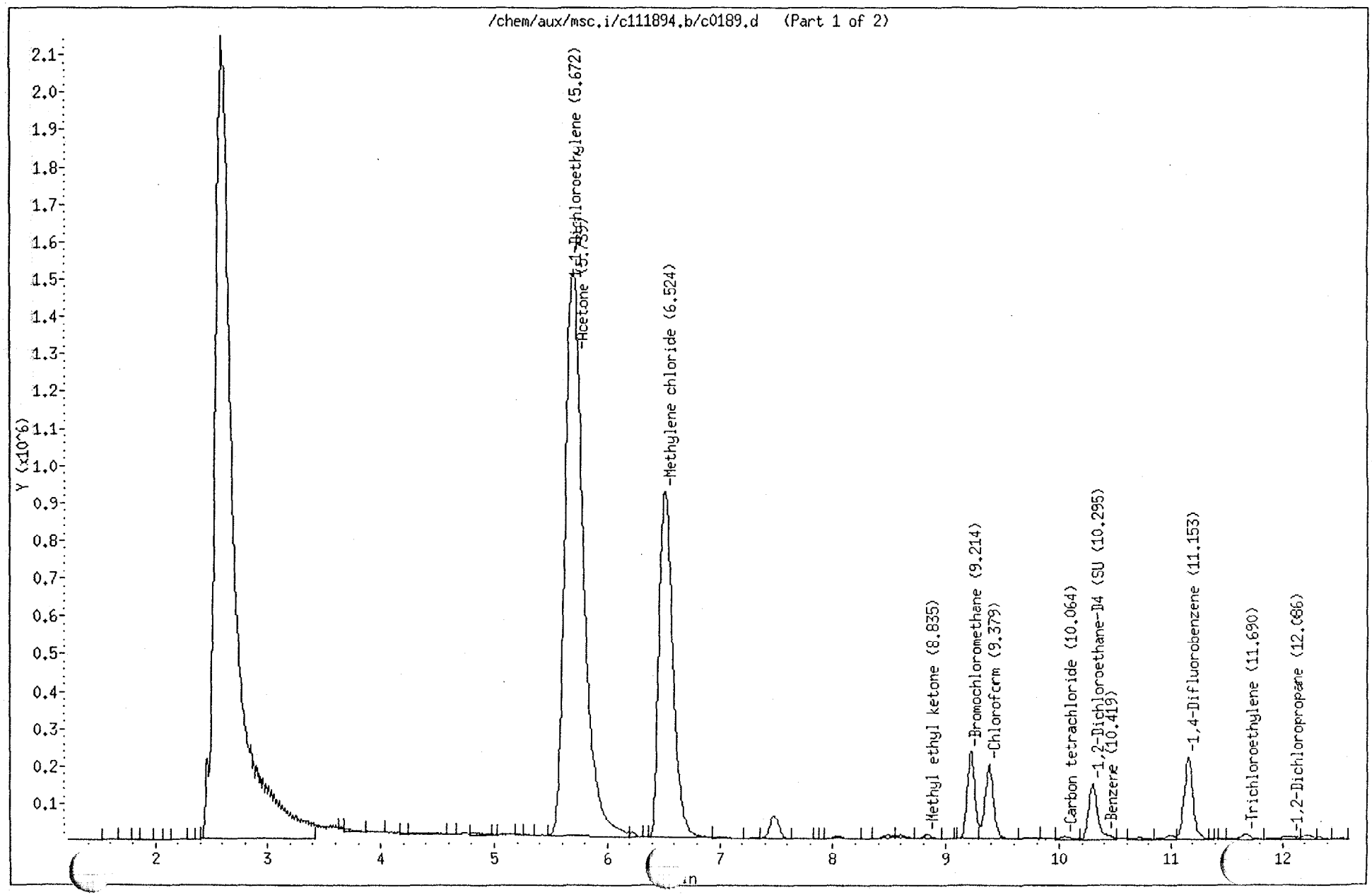
Number TICs found: 14 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	76-13-1	Ethane, 1,1,2-trichloro-1,2,	5.70	920	JN
2.	110-54-3	Hexane	7.47	19	JN
3.		Unk hydrocarbon	15.94	14	J
4.		Unk substituted aromatic	17.70	7	J
5.		Unk hydrocarbon	19.13	7	J
6.	95-49-8	Benzene, 1-chloro-2-methyl-	20.63	91	JN
7.	108-41-8	Benzene, 1-chloro-3-methyl-	20.86	86	JN
8.	526-73-8	Benzene, 1,2,3-trimethyl-	21.57	28	JN
9.		Unk hydrocarbon	21.90	9	J
10.	99-87-6	Benzene, 1-methyl-4-(1-methy	22.19	17	JN
11.		Unk hydrocarbon	22.68	15	J
12.		Unk hydrocarbon	22.96	13	J
13.	1120-21-4	Undecane	23.21	38	JN
14.		unknown	23.32	11	J

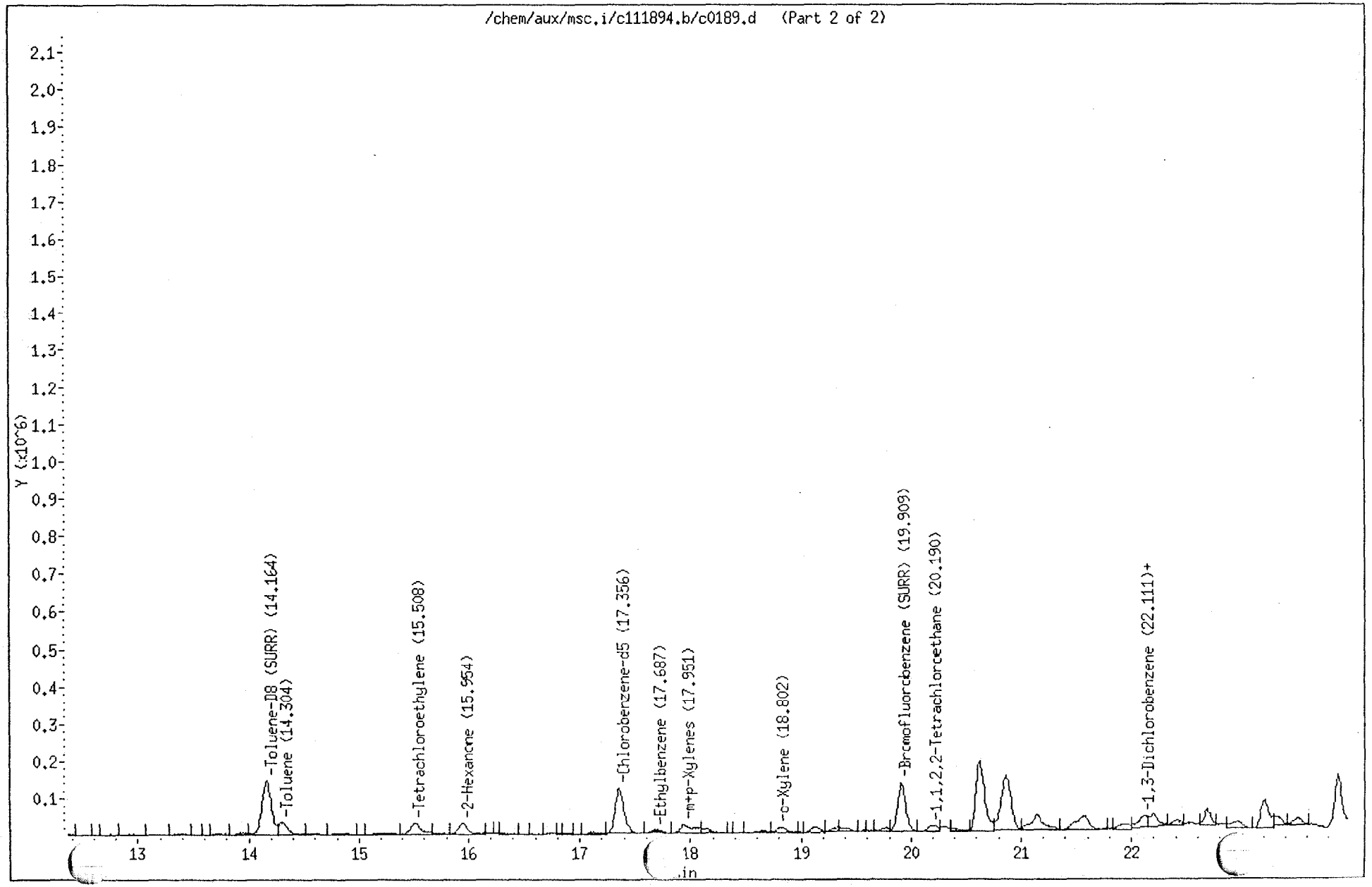
00039

Data File: /chem/aux/msc.i/c111894.b/c0189.d
Date : 18-NOV-94 21:18
Instrument : msc.i
Sample ID : 15226n cljdws151
Column phase : J&W DB_624
Volume Injected (uL) : 0.0

Column diameter : 0.53



Data File: /chem/aux/msc.i/c111894.b/c0189.d
Date : 18-NOV-94 21:18
Instrument : msc.i
Sample ID : 15226n cljdws151
Column phase : J&W DB_624
Column diameter : 0.53
Volume Injected (uL) : 0.0



Data File: /chem/aux/msc.i/c111894.b/c0189.d
Report Date: 19-Nov-1994 09:33

Analytical Services Corp.

VOLATILE REPORT SW-846 Method 8240

2 SURR IS OUT Reg Dilution

Data file : /chem/aux/msc.i/c111894.b/c0189.d
Lab. Id. :
Quant Type: ISTD
Inj Date : 18-NOV-94 21:18
Autotune Date: {
Operator : dana
Inst ID: msc.i
Smp Info : 15226n cljdws151
Misc Info : jn4742v,n2v4030,s:m2,4.08,5.00:1,
Comment :
Method : /chem/aux/msc.i/c111894.b/8240heatc.m
Meth Date : 19-Nov-1994 09:25 jeff
Cal Date : 18-NOV-94 11:32
Cal File: c0173.d
Als bottle: 19
Dil Factor: 1.000
Target Version: Target 3.00
Integrator: HP RTE
Compound Sublist: all.sub
Sample Matrix: WATER

JH 11-27

	Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	1,1-Dichloroethylene	96.00	5.672	(0.615)	4625	1.30	~~1.30(aQ)~~
	7 Acetone	43.00	5.739	(0.622)	707235	333	333 E } see run # c0206.d for quantitation
	9 Methylene chloride	84.00	6.524	(0.707)	1610052	442	442 E
	14 Methyl ethyl ketone	72.00	8.835	(0.791)	7397	14.4	14.4(aQ)
*	15 Bromochloromethane	128.00	9.222	(1.000)	160662	50.0	
	16 Chloroform	83.00	9.379	(1.017)	378677	39.4	39.4
	18 Carbon tetrachloride	117.00	10.064	(0.902)	13269	2.11	2.11(a)
$	19 1,2-Dichloroethane-D4 (SURR)	65.00	10.295	(1.116)	299750	45.7	45.7
	20 Benzene	78.00	10.419	(0.933)	9861	1.45	~~1.45(a)~~ MS
*	22 1,4-Difluorobenzene	114.00	11.162	(1.000)	457625	50.0	
	23 Trichloroethylene	130.00	11.690	(1.047)	9102	2.25	2.25(a)
	24 1,2-Dichloropropane	63.00	12.086	(1.083)	3594	1.10	~~1.10(aQ)~~ MS
$	29 Toluene-D8 (SURR)	98.00	14.164	(0.816)	262081	67.7	67.7(R) H
	30 Toluene	92.00	14.304	(0.824)	27582	11.0	11.0
	33 Tetrachloroethylene	164.00	15.517	(0.894)	19514	9.00	9.00
	34 2-Hexanone	43.00	15.954	(0.919)	14337	5.30	~~5.30(aQ)~~ MS
*	36 Chlorobenzene-d5	117.00	17.356	(1.000)	167408	50.0	
	38 Ethylbenzene	106.00	17.687	(1.019)	3661	2.34	~~2.34(aQ)~~ MS
	39 m+p-Xylenes	106.00	17.951	(1.034)	14738	7.92	7.92
	40 o-Xylene	106.00	18.802	(1.083)	7439	3.99	3.99(a)
$	43 Bromofluorobenzene (SURR)	95.00	19.909	(1.147)	111724	35.1	35.1(R) L
	44 1,1,2,2-Tetrachloroethane	83.00	20.190	(1.163)	14994	4.28	4.28(a)
	45 1,3-Dichlorobenzene	146.00	22.120	(1.274)	24273	5.97	5.97
	46 1,4-Dichlorobenzene	146.00	22.120	(1.274)	24144	4.97	~~4.97(a)~~ RT

Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: /chem/aux/msc.i/c111894.b/c0189.d
Report Date: 19-Nov-1994 09:33

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: /chem/aux/msc.i/c111894.b/c0189.d

Date : 18-NOV-94 21:18

Instrument : msc.i

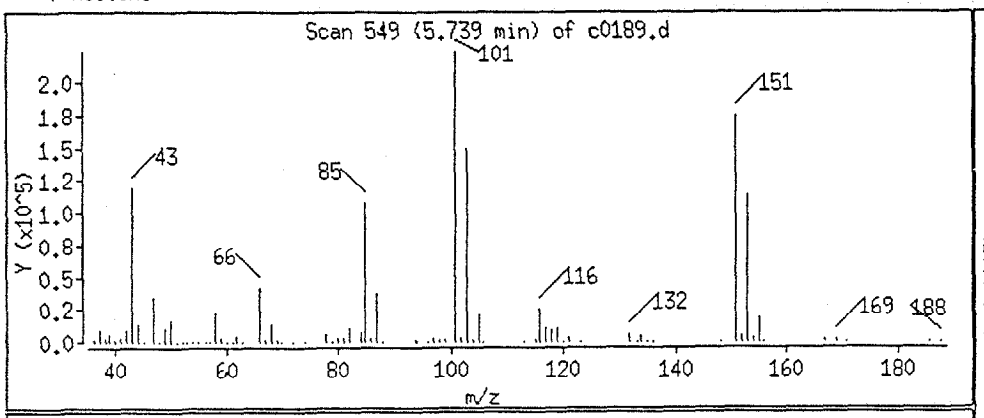
Sample ID : 15226n cljdws151

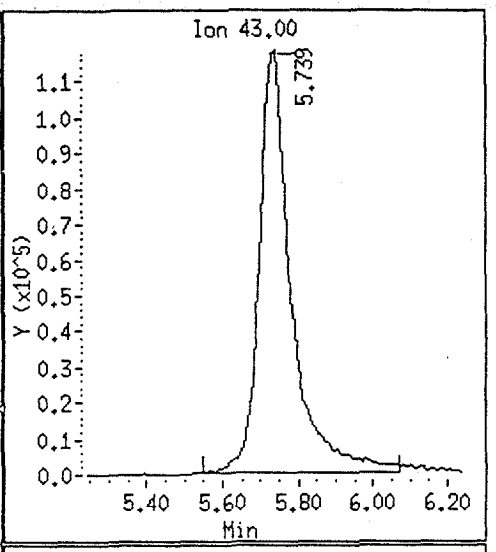
Column phase : J&W DB_624

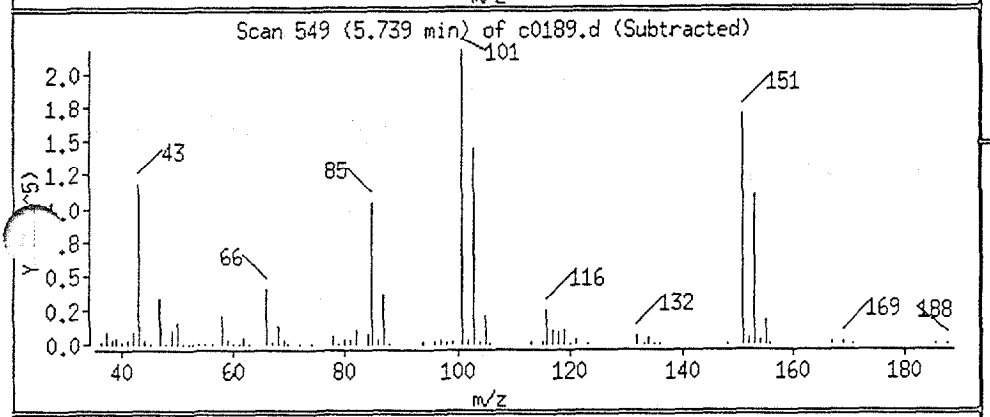
Column diameter : 0.53

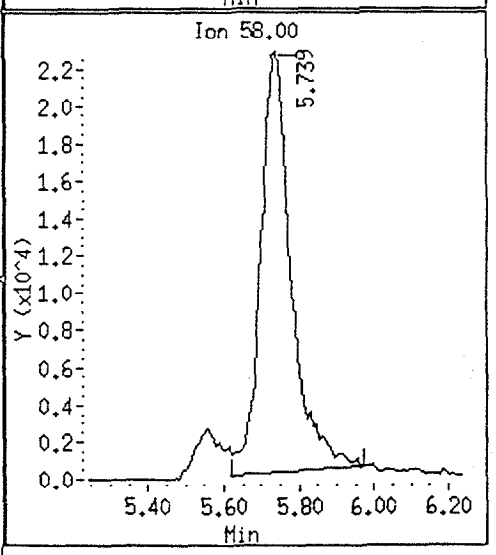
Volume Injected (uL) : 0.0

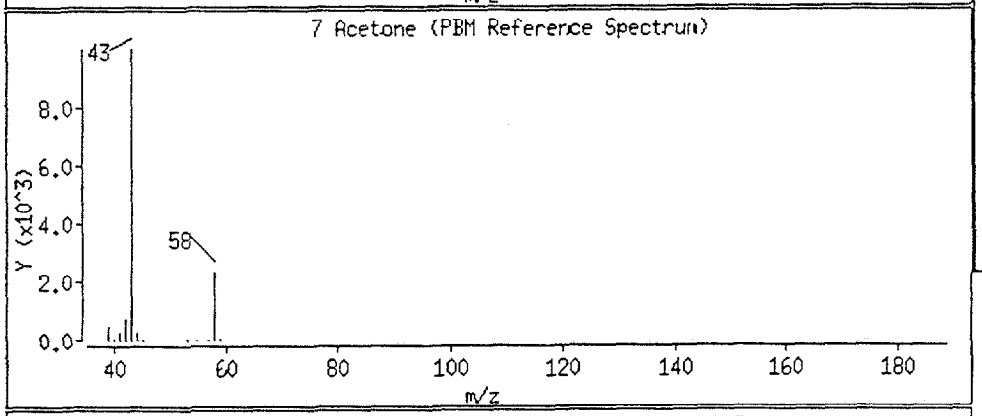
7 Acetone

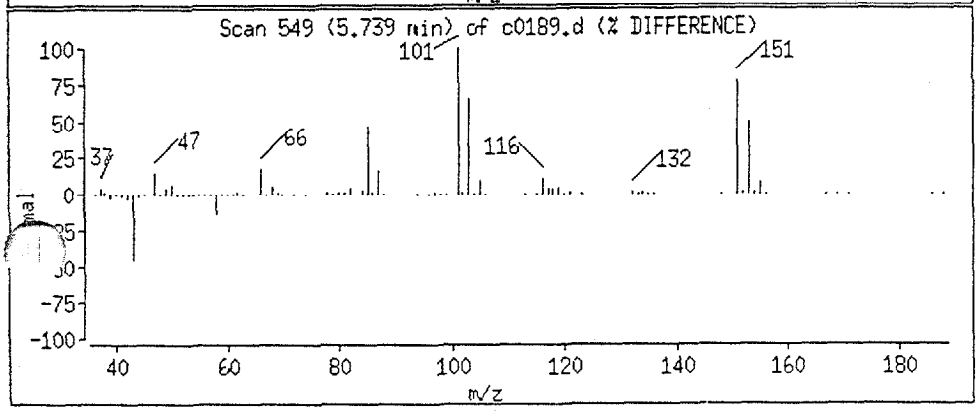












Data File: /chem/aux/msc.i/c111894.b/c0189.d

Date : 18-NOV-94 21:18

Instrument : msc.i

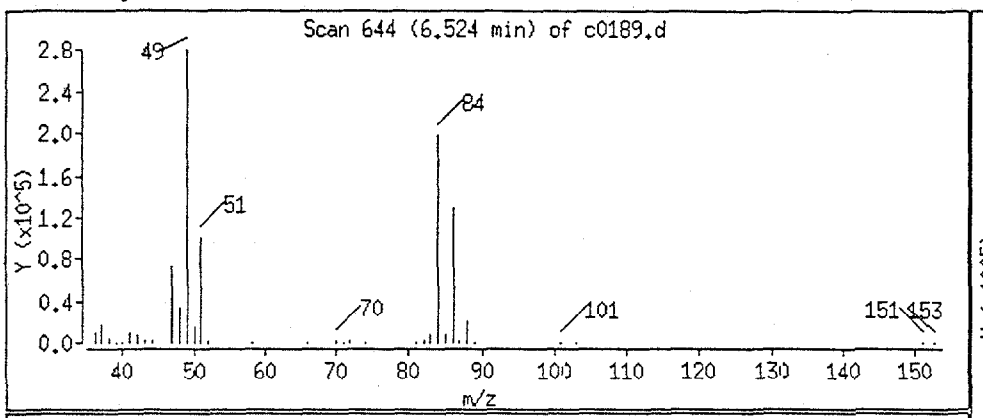
Sample ID : 15226n cljdws151

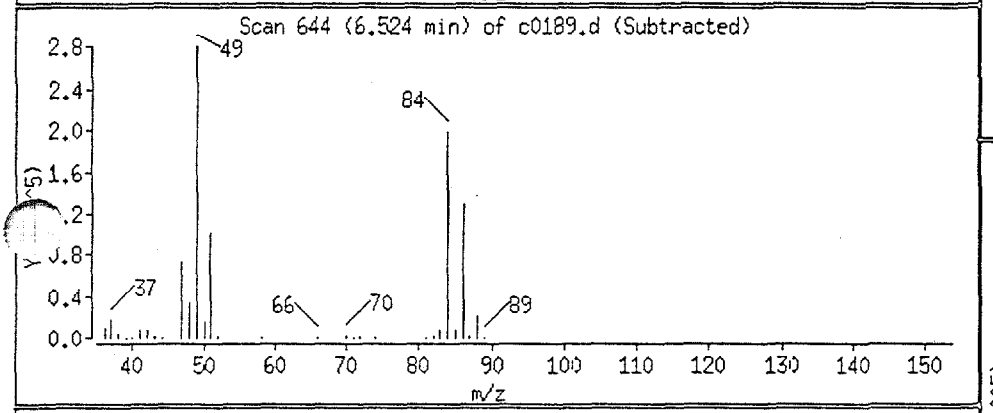
Column phase : J&W DB_624

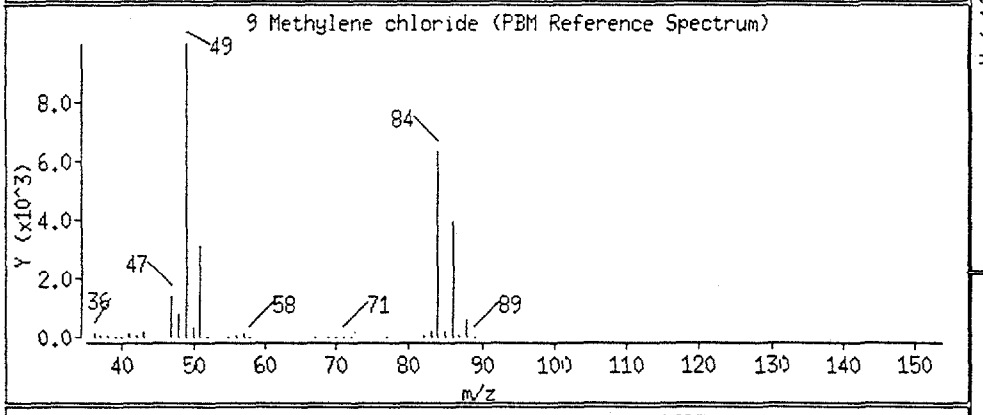
Column diameter : 0.53

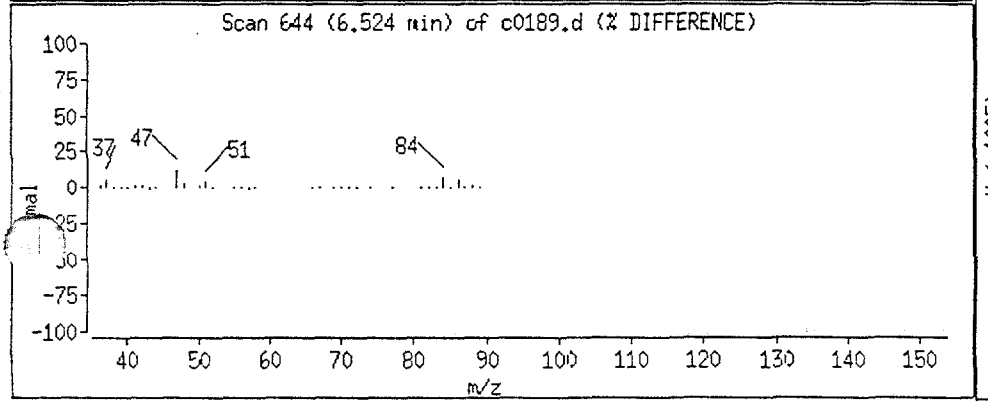
Volume Injected (uL) : 0.0

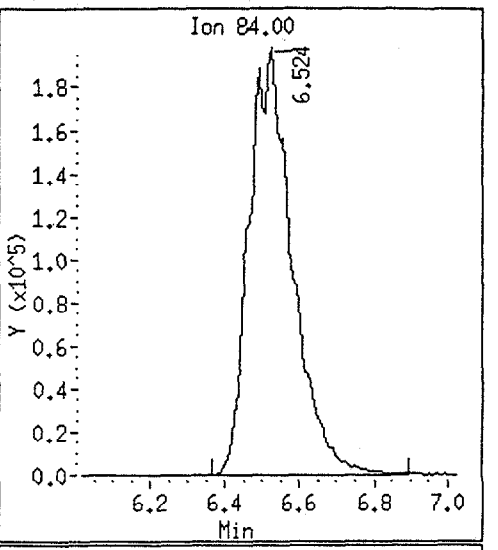
9 Methylene chloride

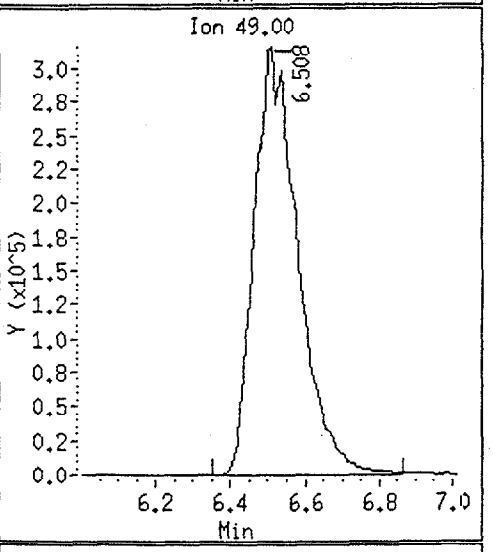


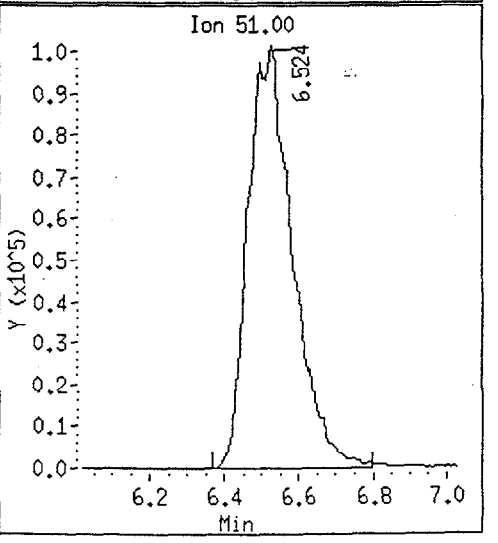












Data File: /chem/aux/msc.i/c111894.b/c0189.d

Date : 18-NOV-94 21:18

Instrument : msc.i

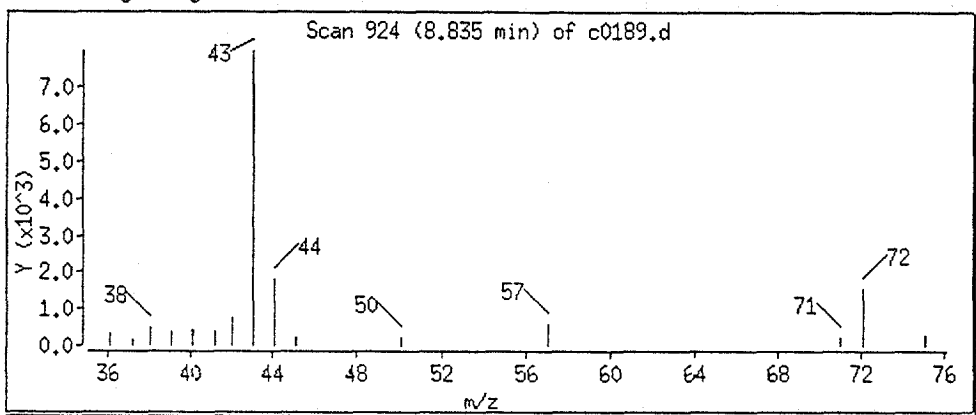
Sample ID : 15226n cljdws151

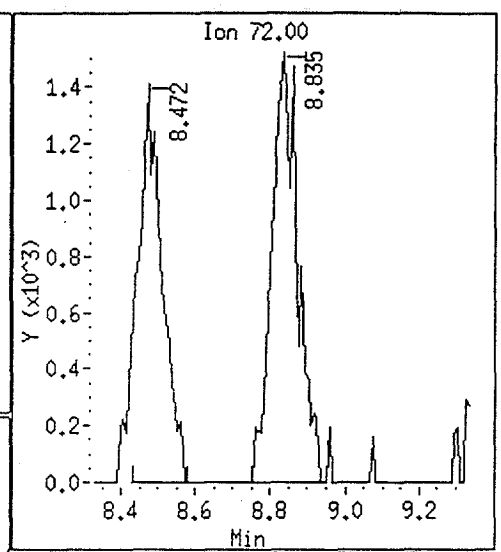
Column phase : J&W DB_624

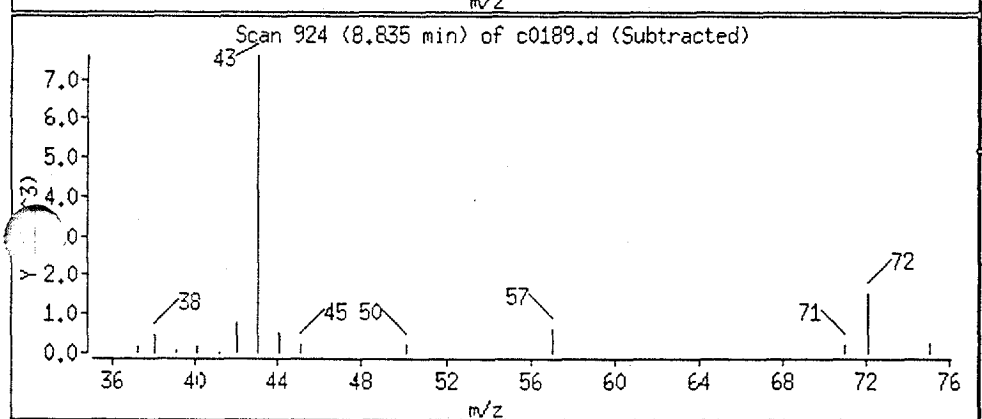
Column diameter : 0.53

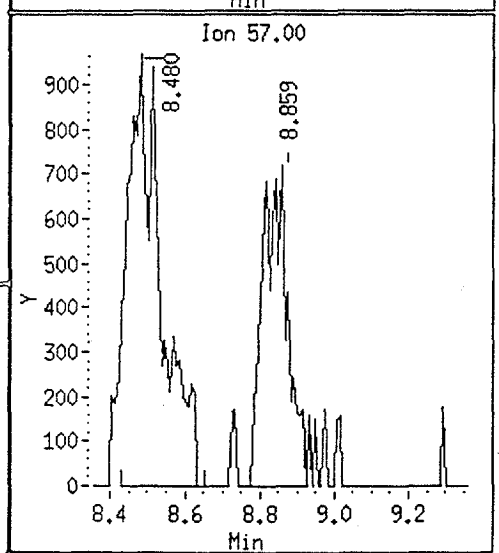
Volume Injected (uL) : 0.0

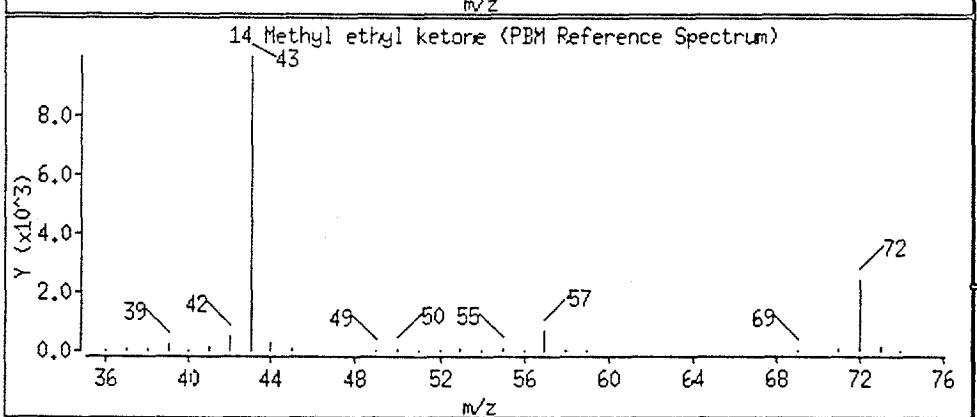
14 Methyl ethyl ketone

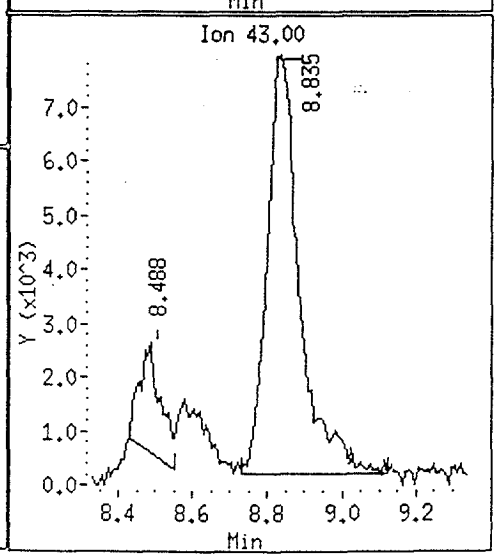


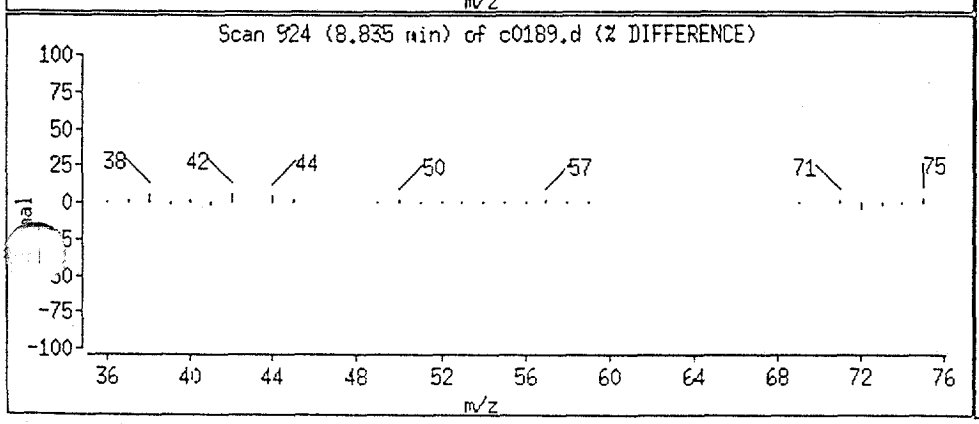












Data File: /chem/aux/msc.i/c111894.b/c0189.d

Date : 18-NOV-94 21:18

Instrument : msc.i

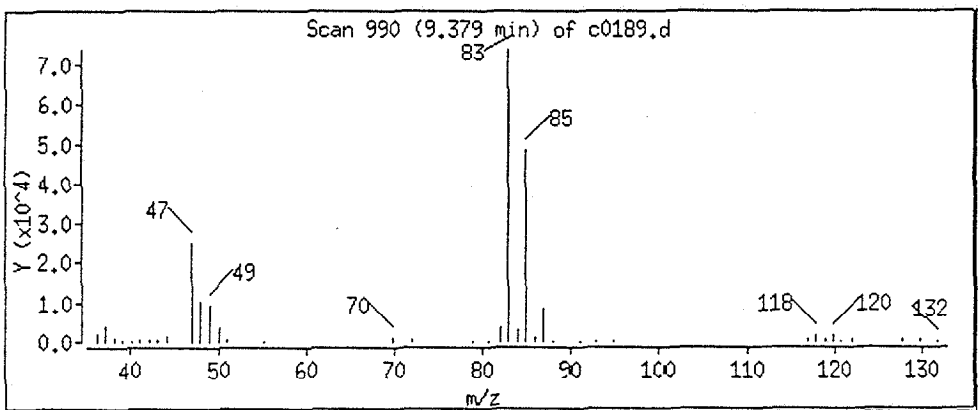
Sample ID : 15226n cljdws151

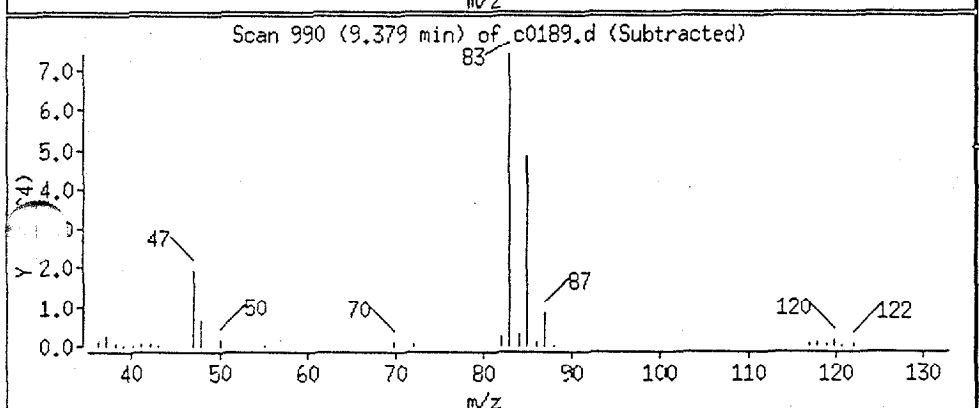
Column phase : J&W DB_624

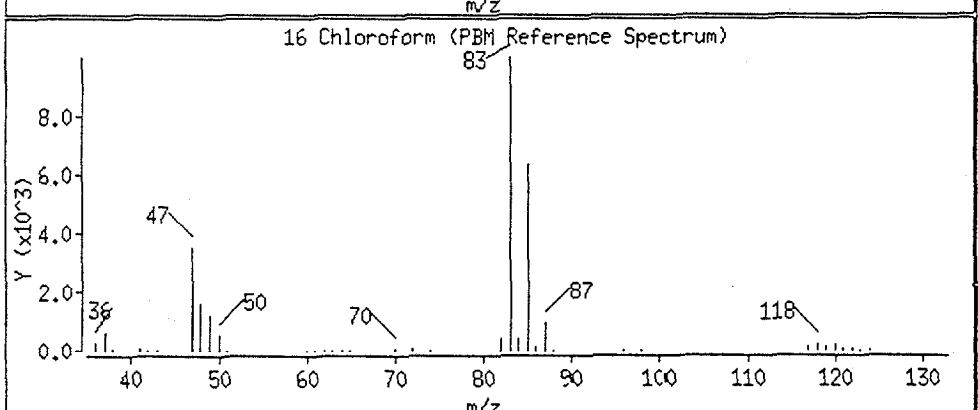
Column diameter : 0.53

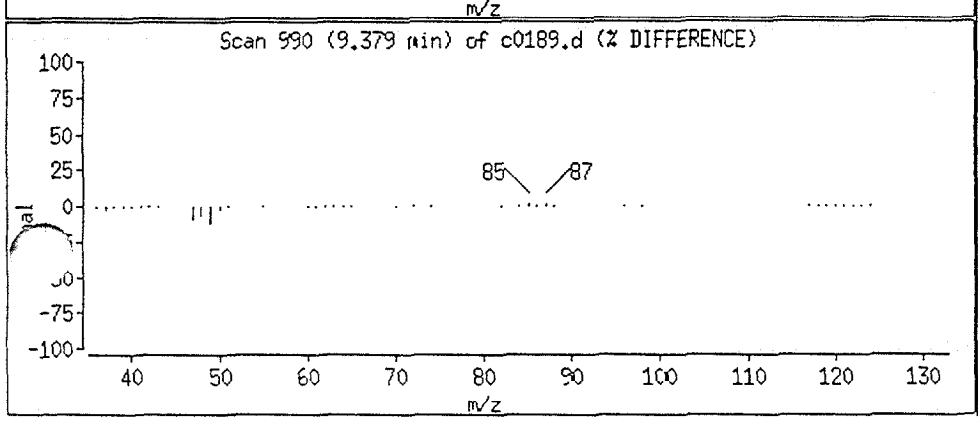
Volume Injected (uL) : 0.0

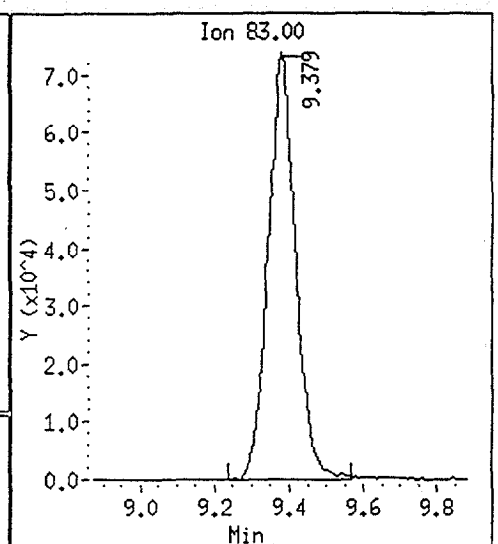
16 Chloroform

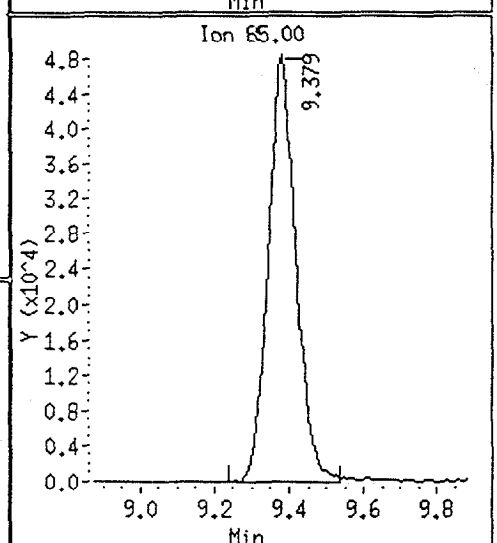


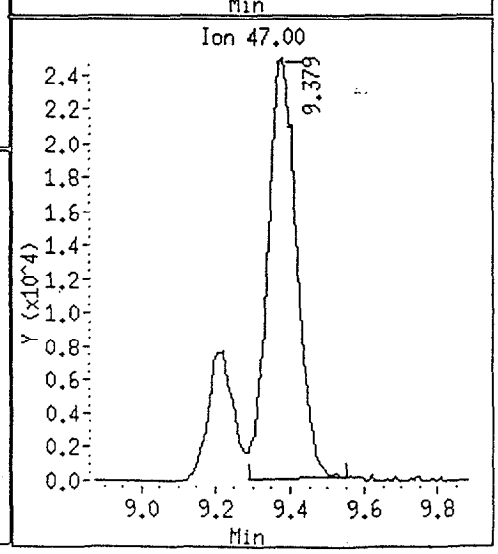












Data File: /chem/aux/msc.i/c111894.b/c0189.d

Date : 18-NOV-94 21:18

Instrument : msc.i

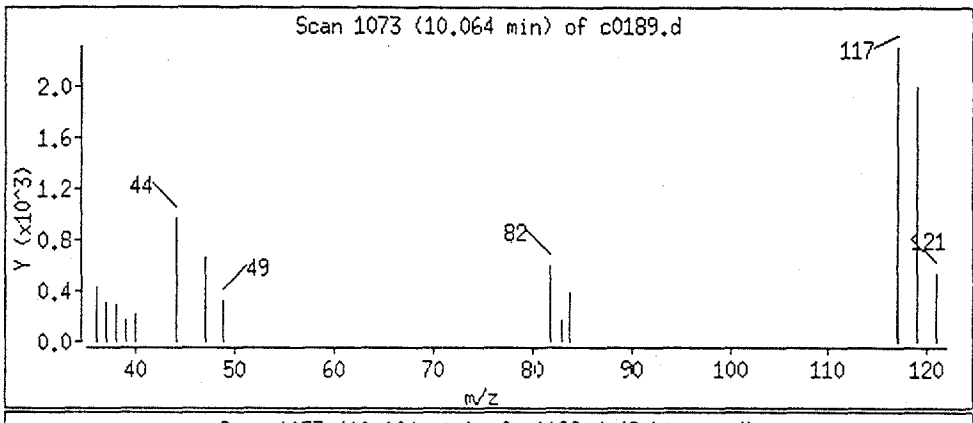
Sample ID : 15226n cljdws151

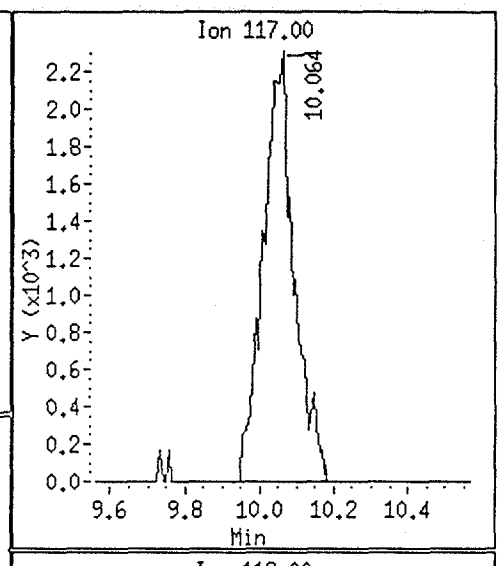
Column phase : J&W DB_624

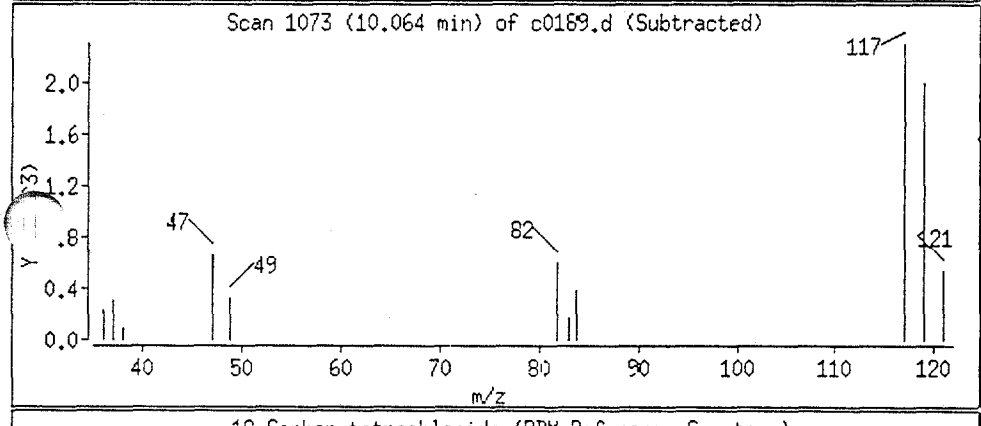
Column diameter : 0.53

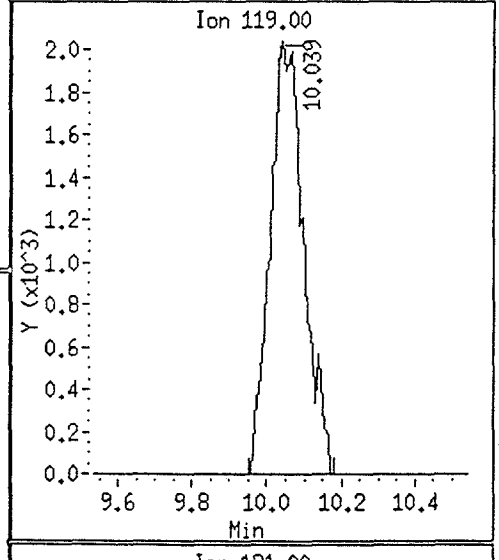
Volume Injected (uL) : 0.0

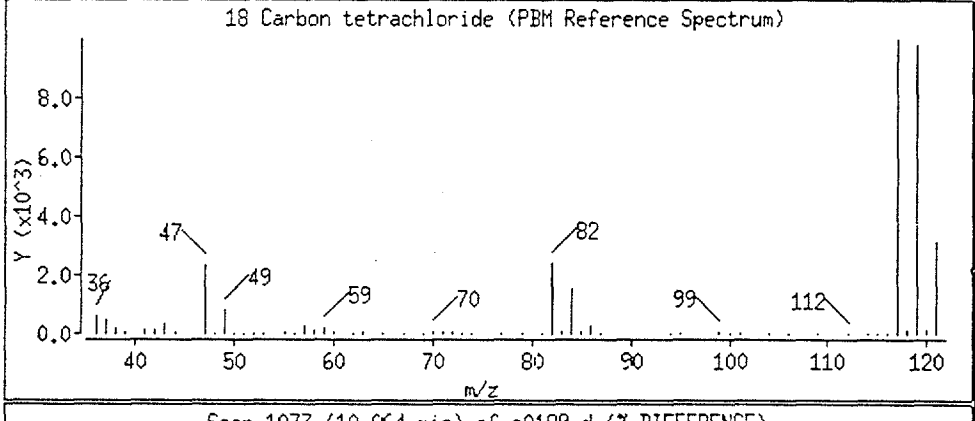
18 Carbon tetrachloride

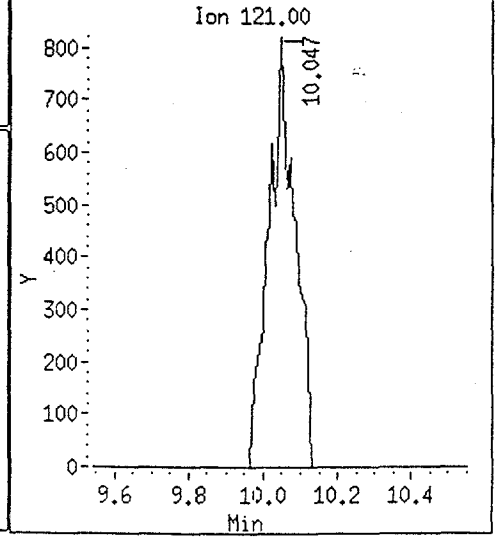


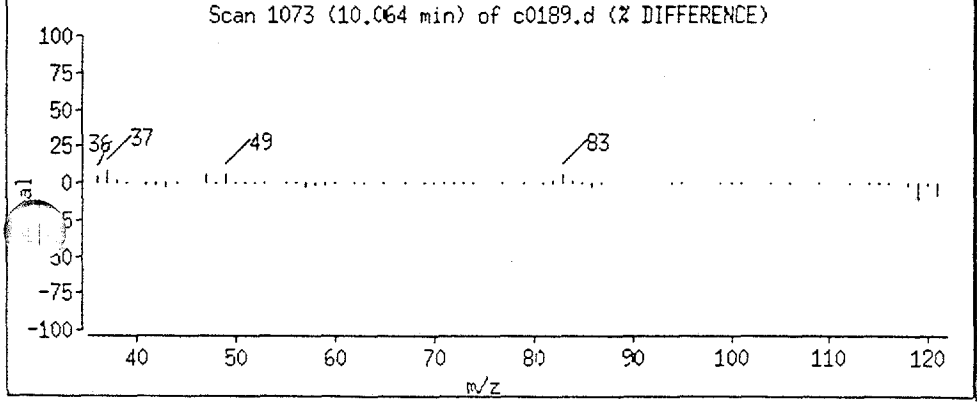












Data File: /chem/aux/msc.i/c111894.b/c0189.d

Date : 18-NOV-94 21:18

Instrument : msc.i

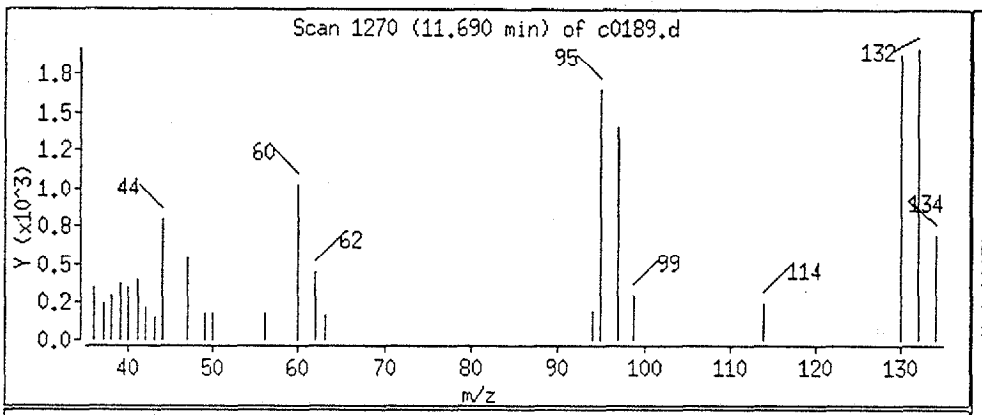
Sample ID : 15226n cljdws151

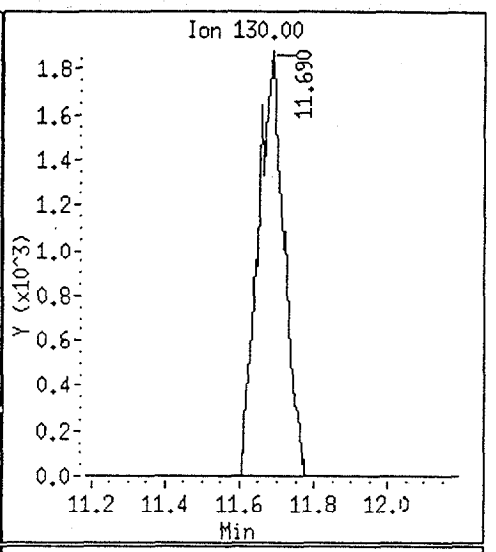
Column phase : J&W DB_624

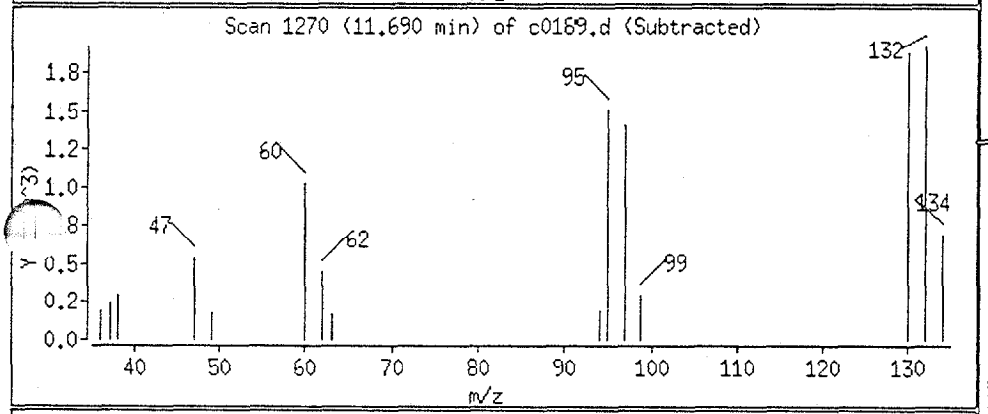
Column diameter : 0.53

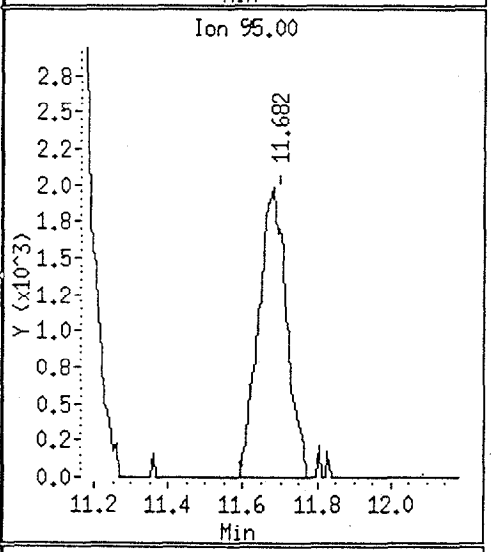
Volume Injected (uL) : 0.0

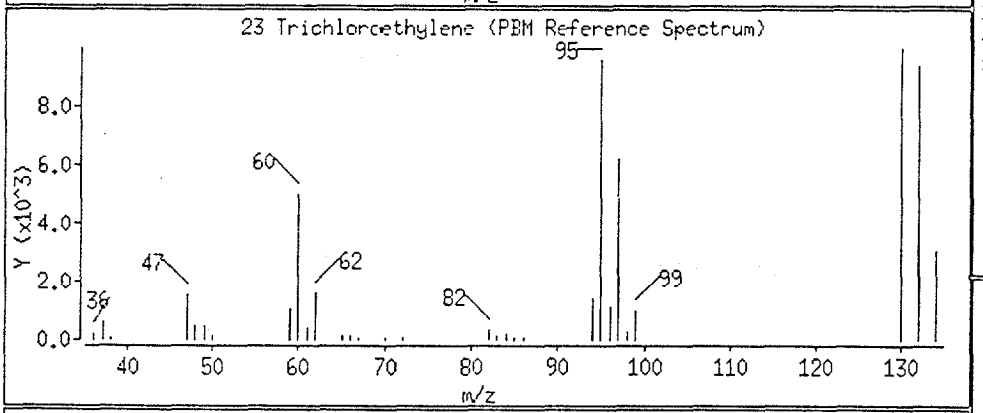
23 Trichloroethylene

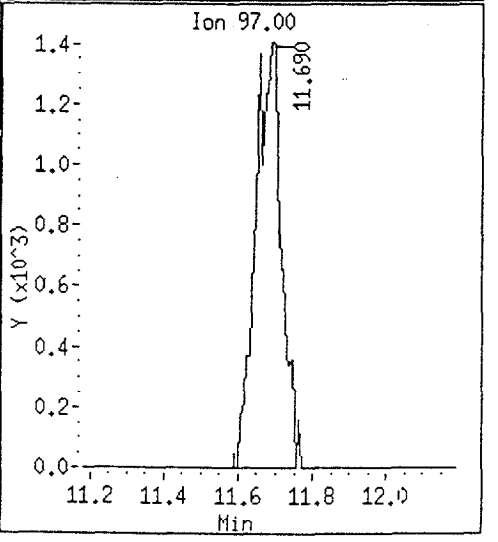


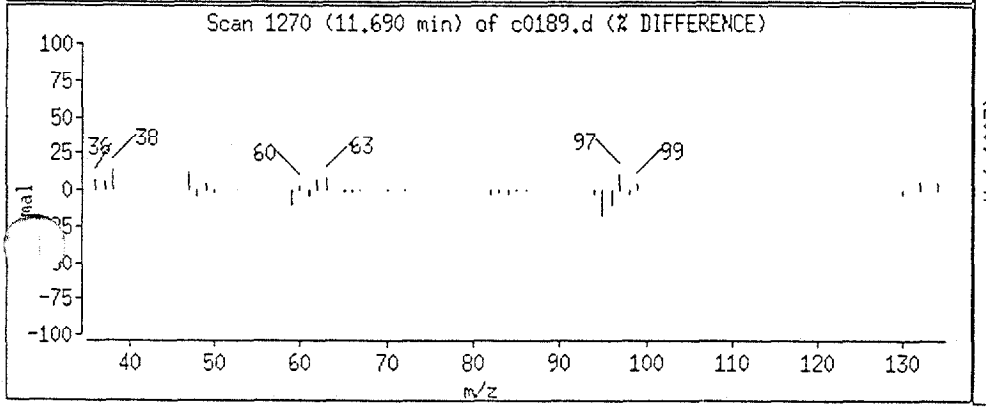












Data File: /chem/aux/msc.i/c111894.b/c0189.d

Date : 18-NOV-94 21:18

Instrument : msc.i

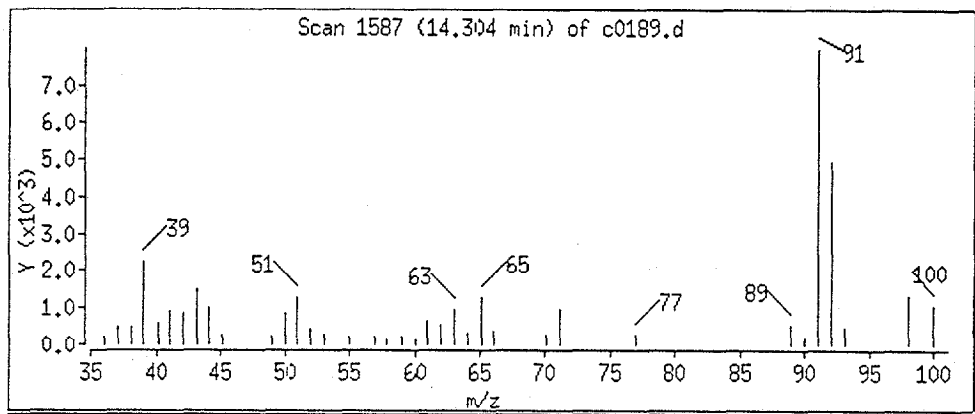
Sample ID : 15226n cljdws151

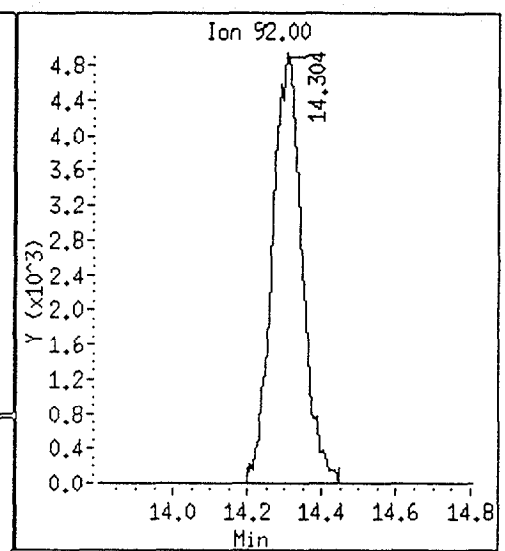
Column phase : J&W DB_624

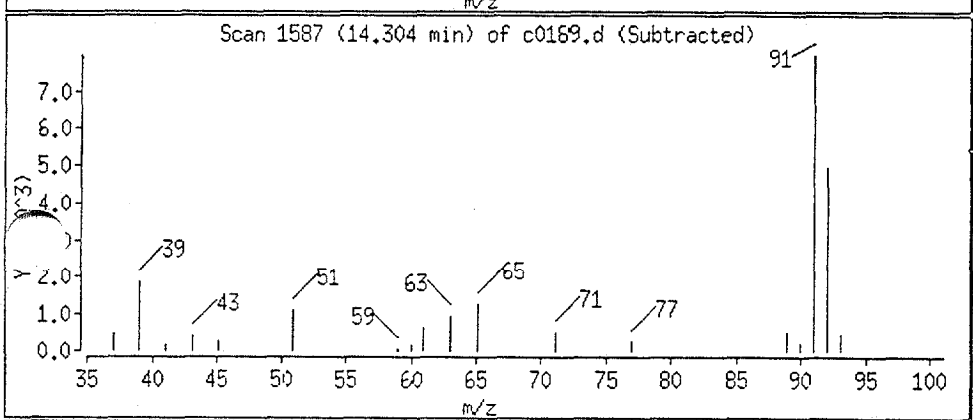
Column diameter : 0.53

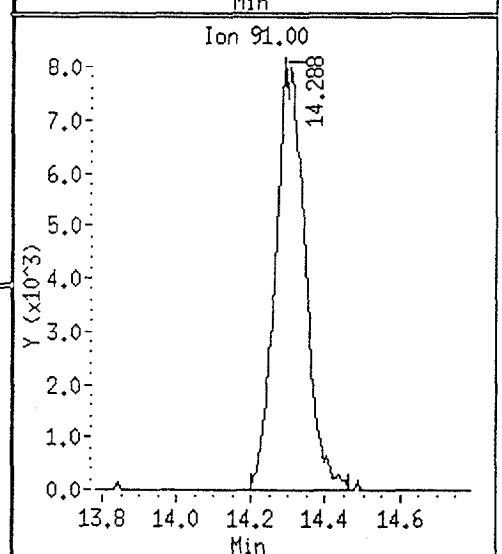
Volume Injected (uL) : 0.0

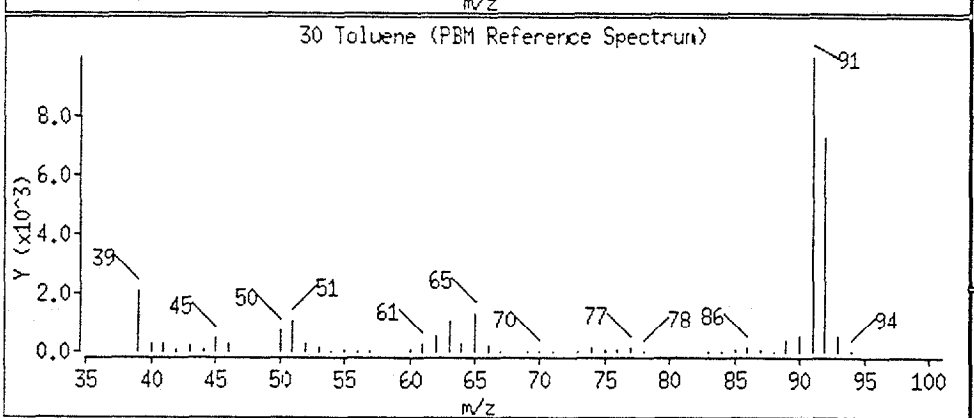
30 Toluene

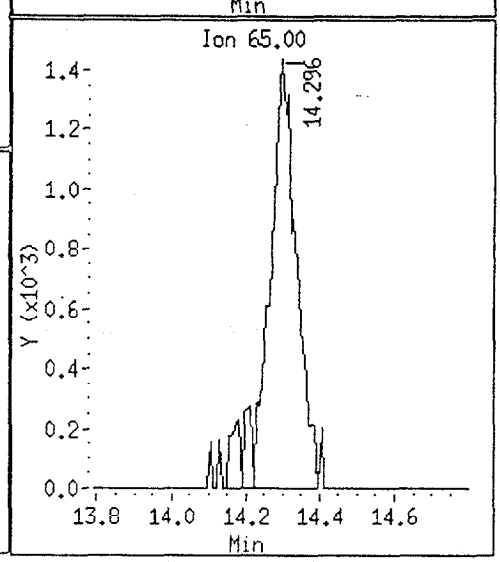


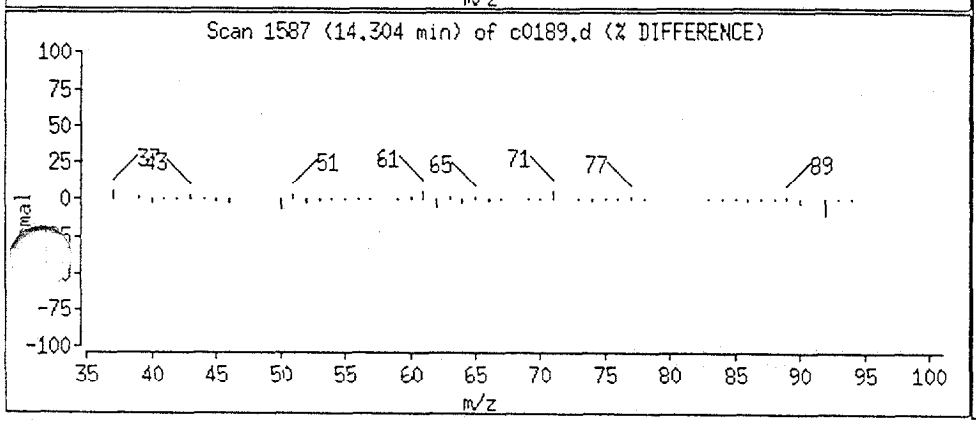












Data File: /chem/aux/msc.i/c111894.b/c0189.d

Date : 18-NOV-94 21:18

Instrument : msc.i

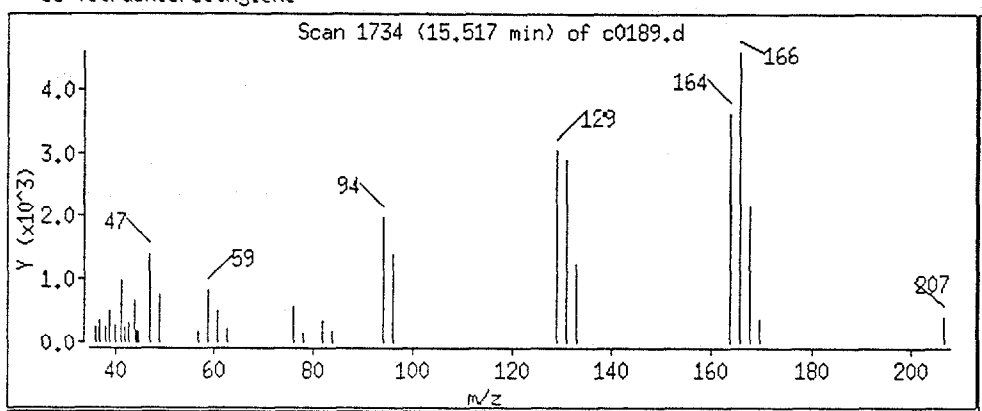
Sample ID : 15226n cljdws151

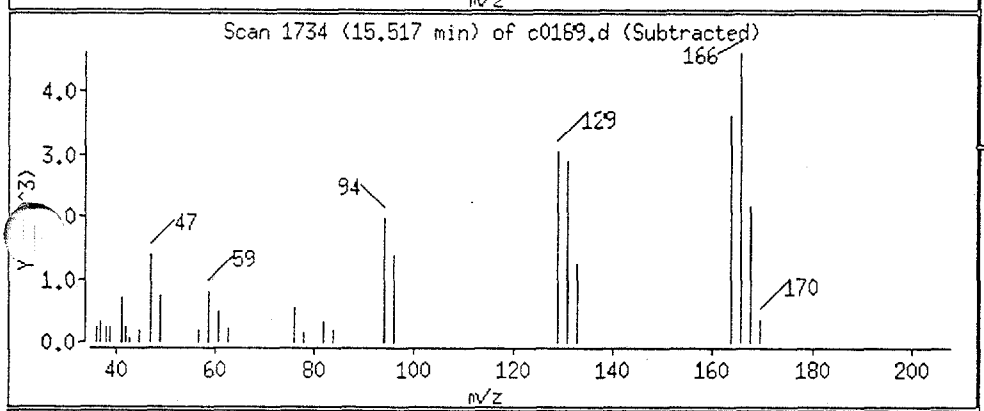
Column phase : J&W DB_624

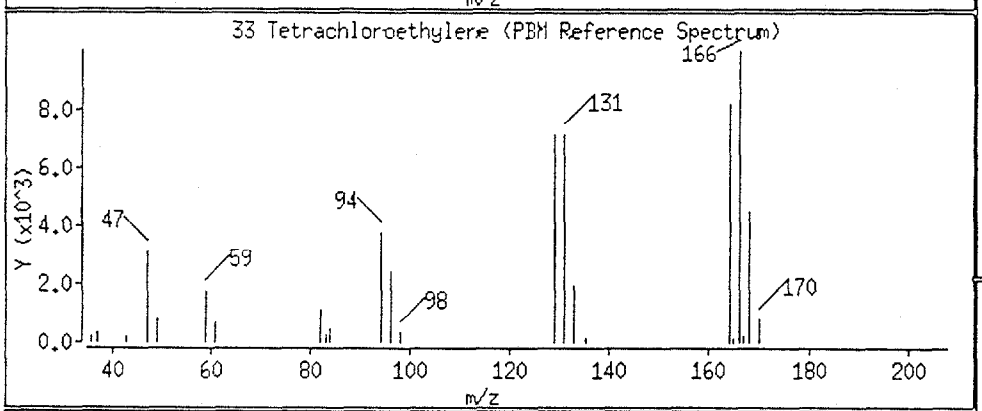
Column diameter : 0.53

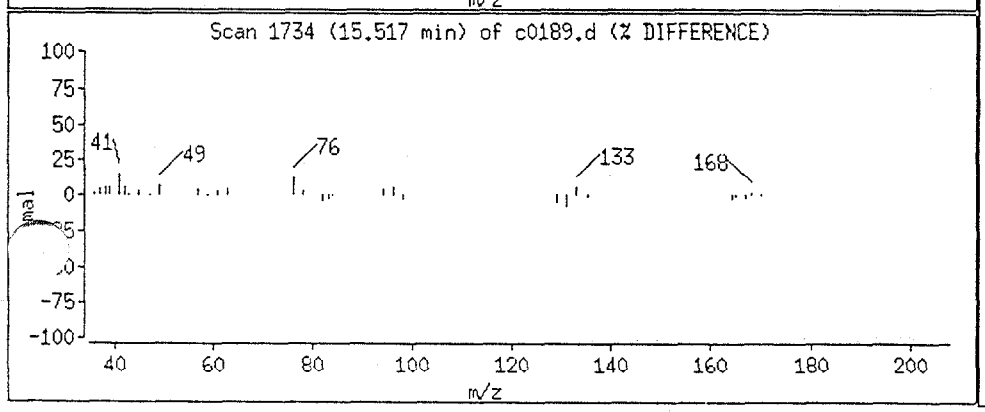
Volume Injected (uL) : 0.0

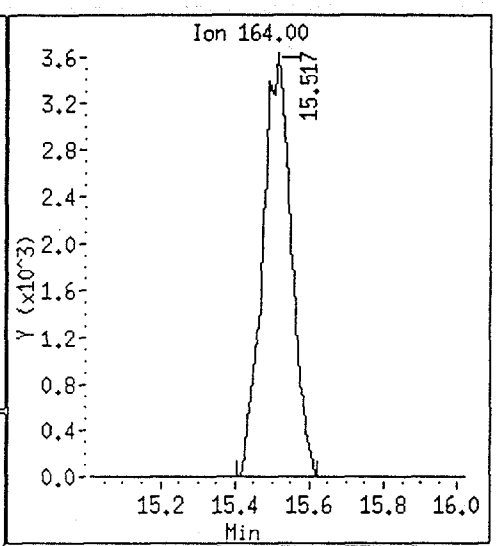
33 Tetrachloroethylene

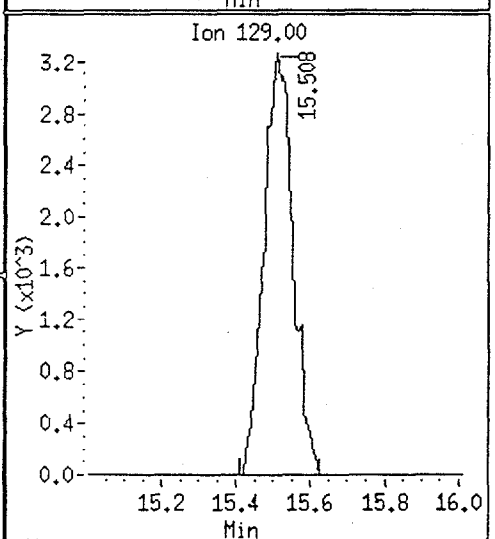


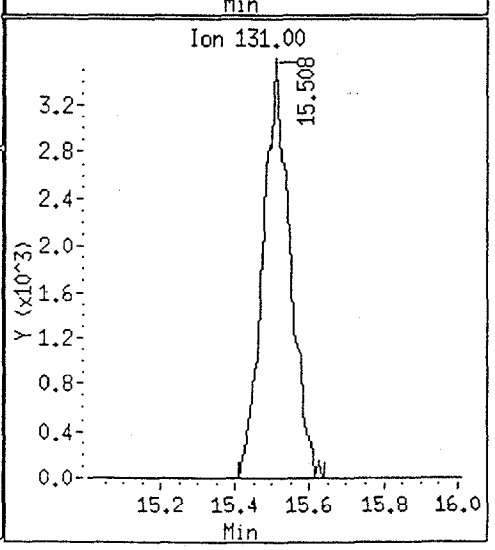












Data File: /chem/aux/msc.i/c111894.b/c0189.d

Date : 18-NOV-94 21:18

Instrument : msc.i

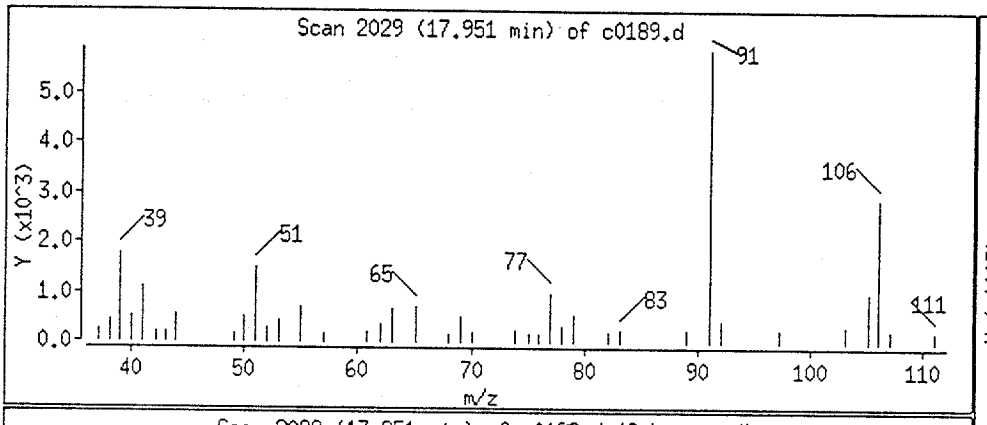
Sample ID : 15226n cljdws151

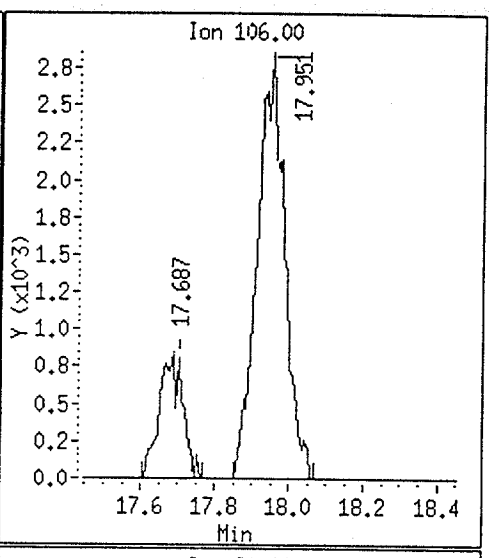
Column phase : J&W DB_624

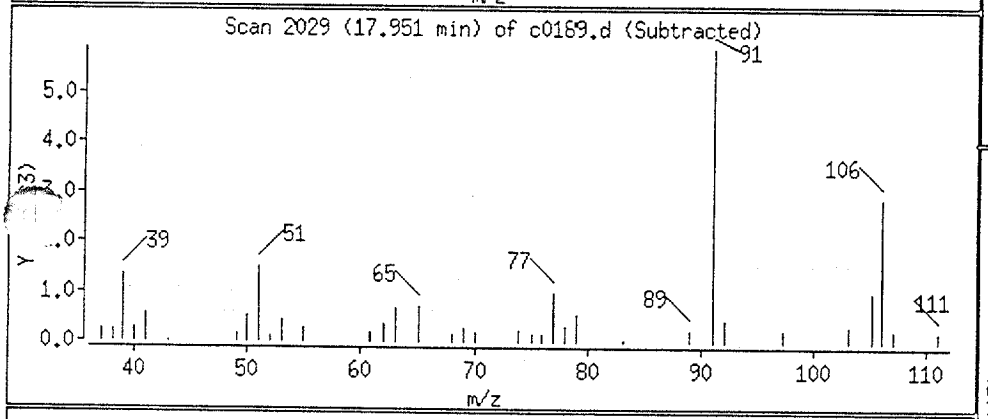
Column diameter : 0.53

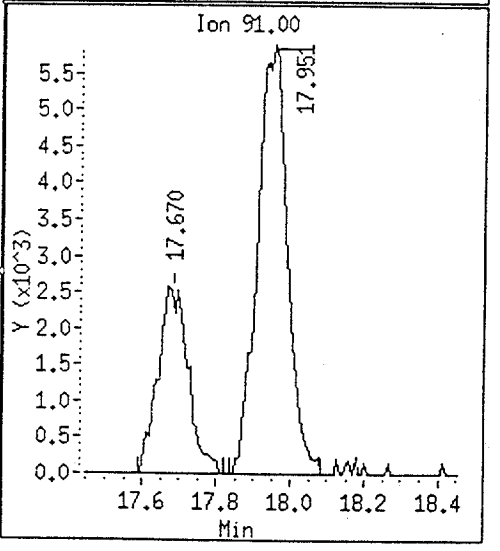
Volume Injected (uL) : 0.0

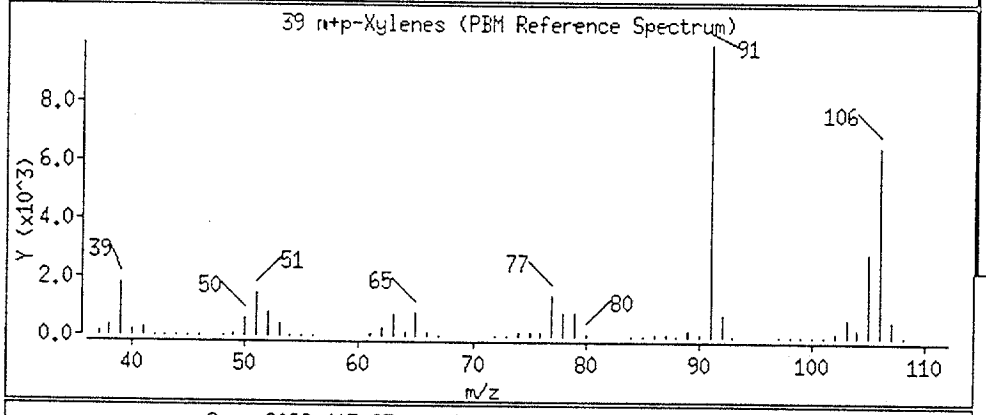
39 m+p-Xylenes

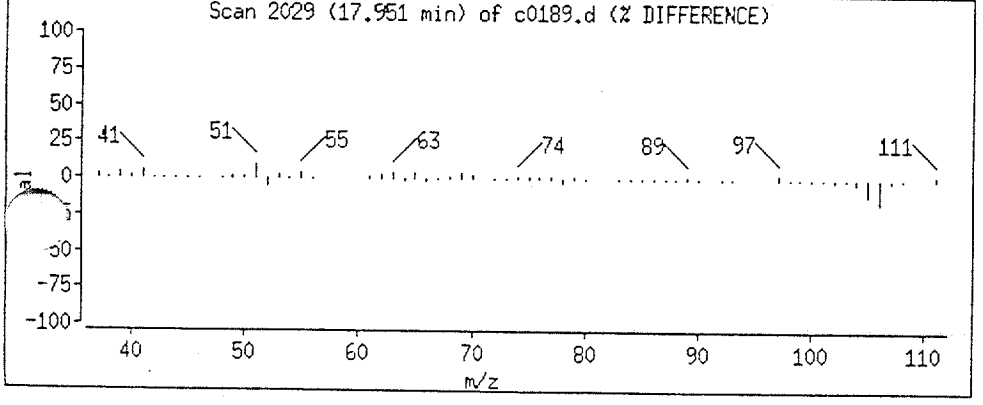












Data File: /chem/aux/msc.i/c111894.b/c0189.d

Date : 18-NOV-94 21:18

Instrument : msc.i

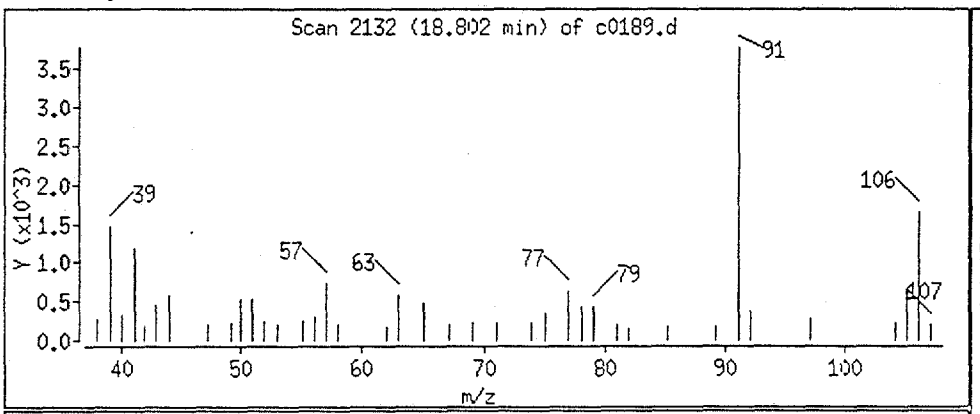
Sample ID : 15226n cljdws151

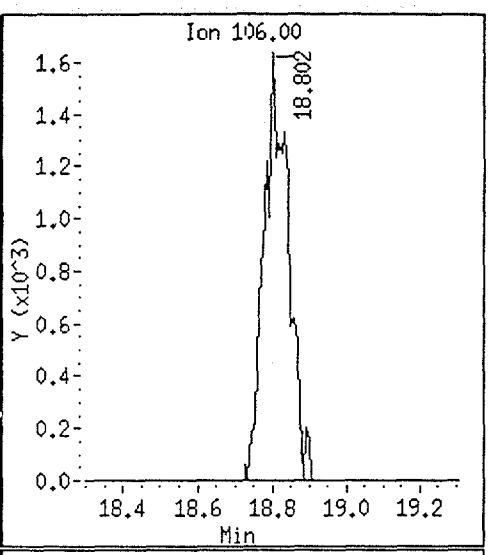
Column phase : J&W DB_624

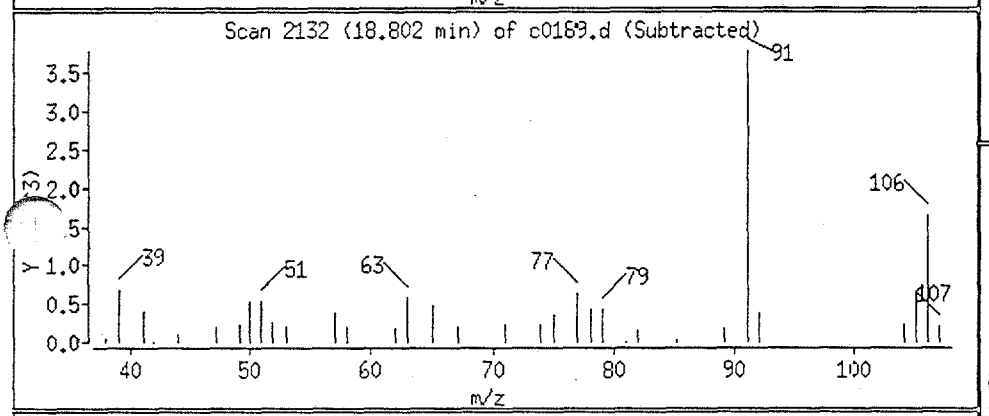
Column diameter : 0.53

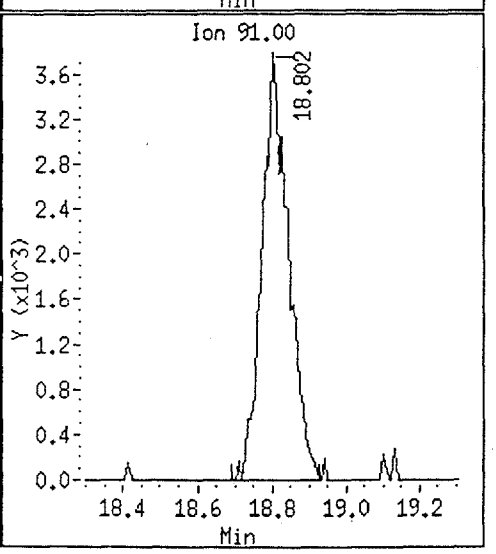
Volume Injected (uL) : 0.0

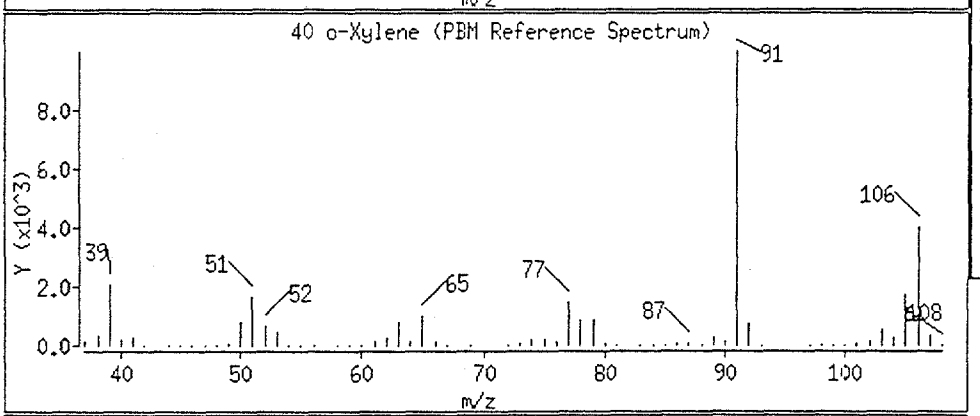
40 o-Xylene

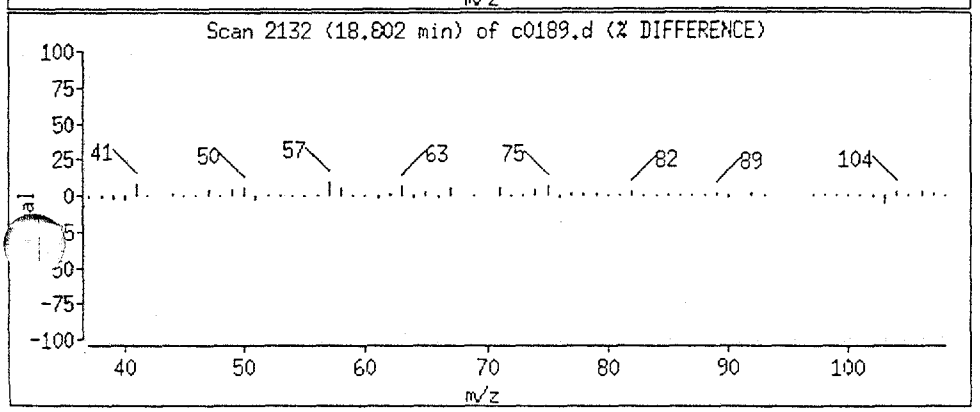












Data File: /chem/aux/msc.i/c111894.b/c0189.d

Date : 18-NOV-94 21:18

Instrument : msc.i

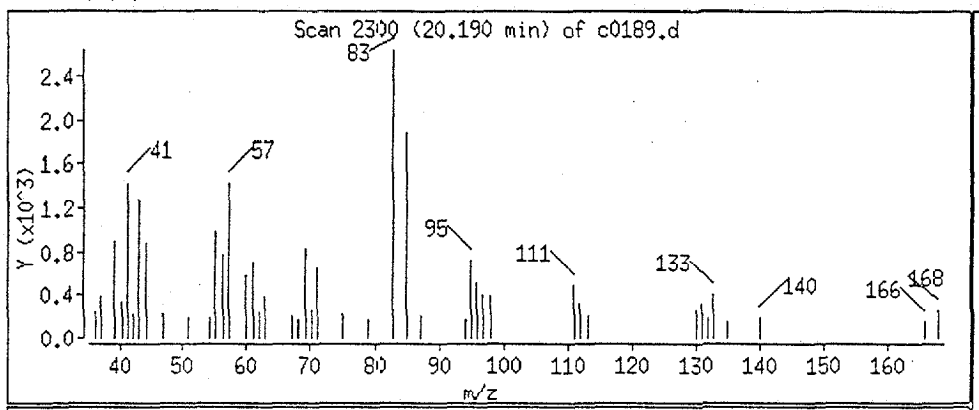
Sample ID : 15226n cljdws151

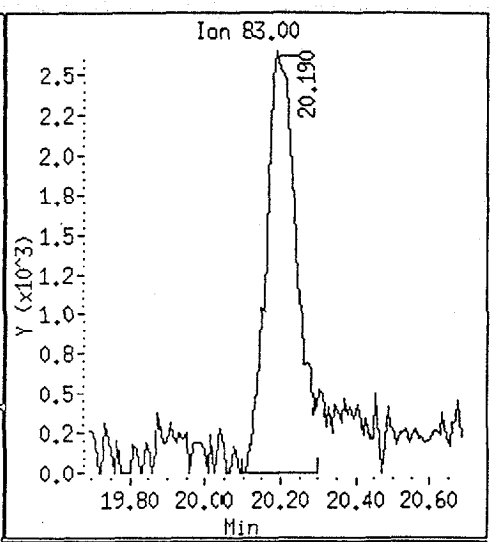
Column phase : J&W DB_624

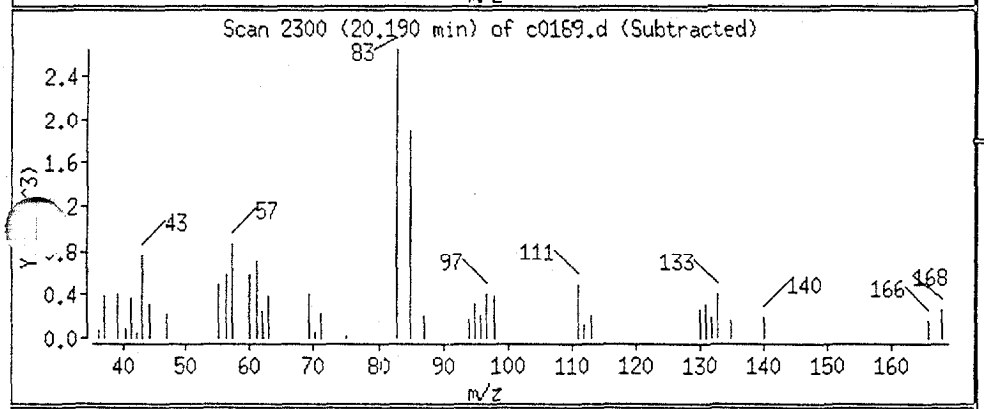
Column diameter : 0.53

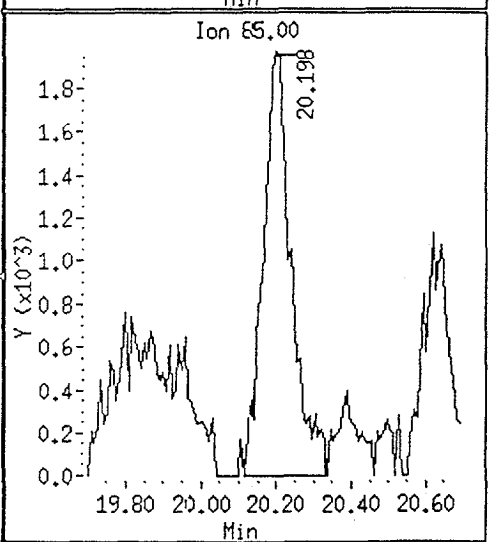
Volume Injected (uL) : 0.0

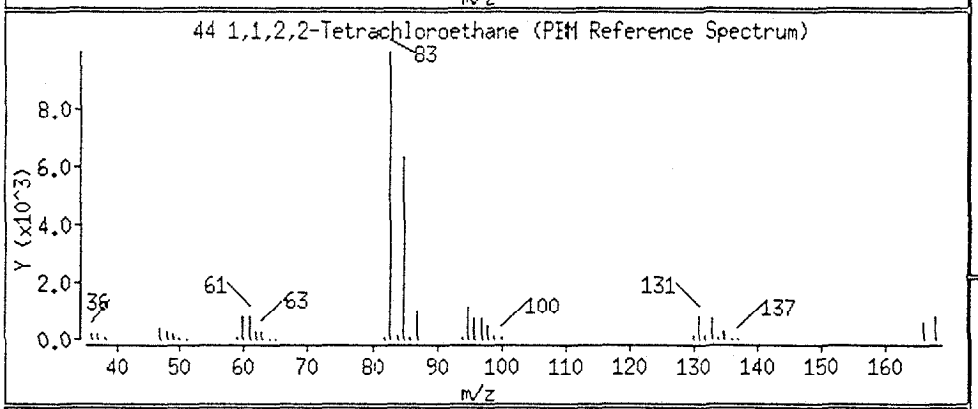
44 1,1,2,2-Tetrachloroethane

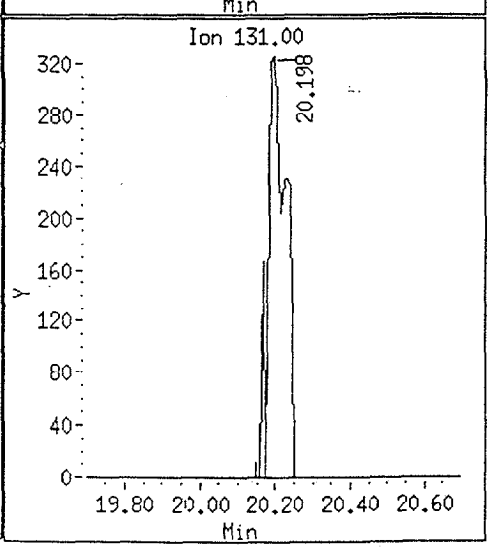


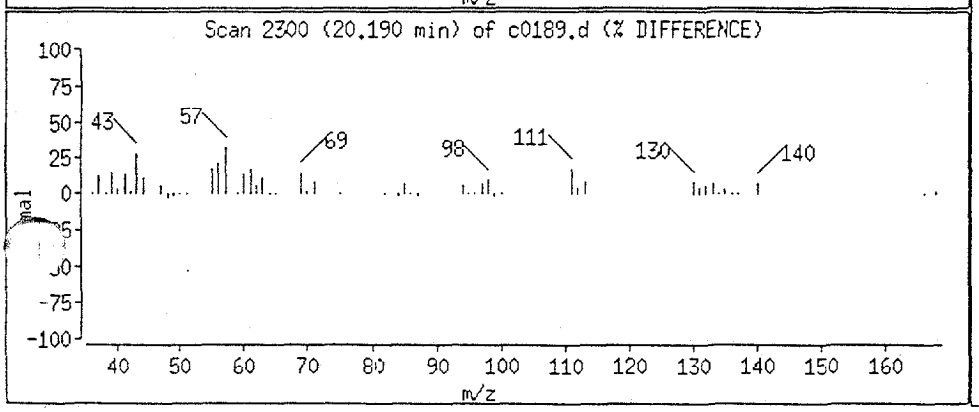








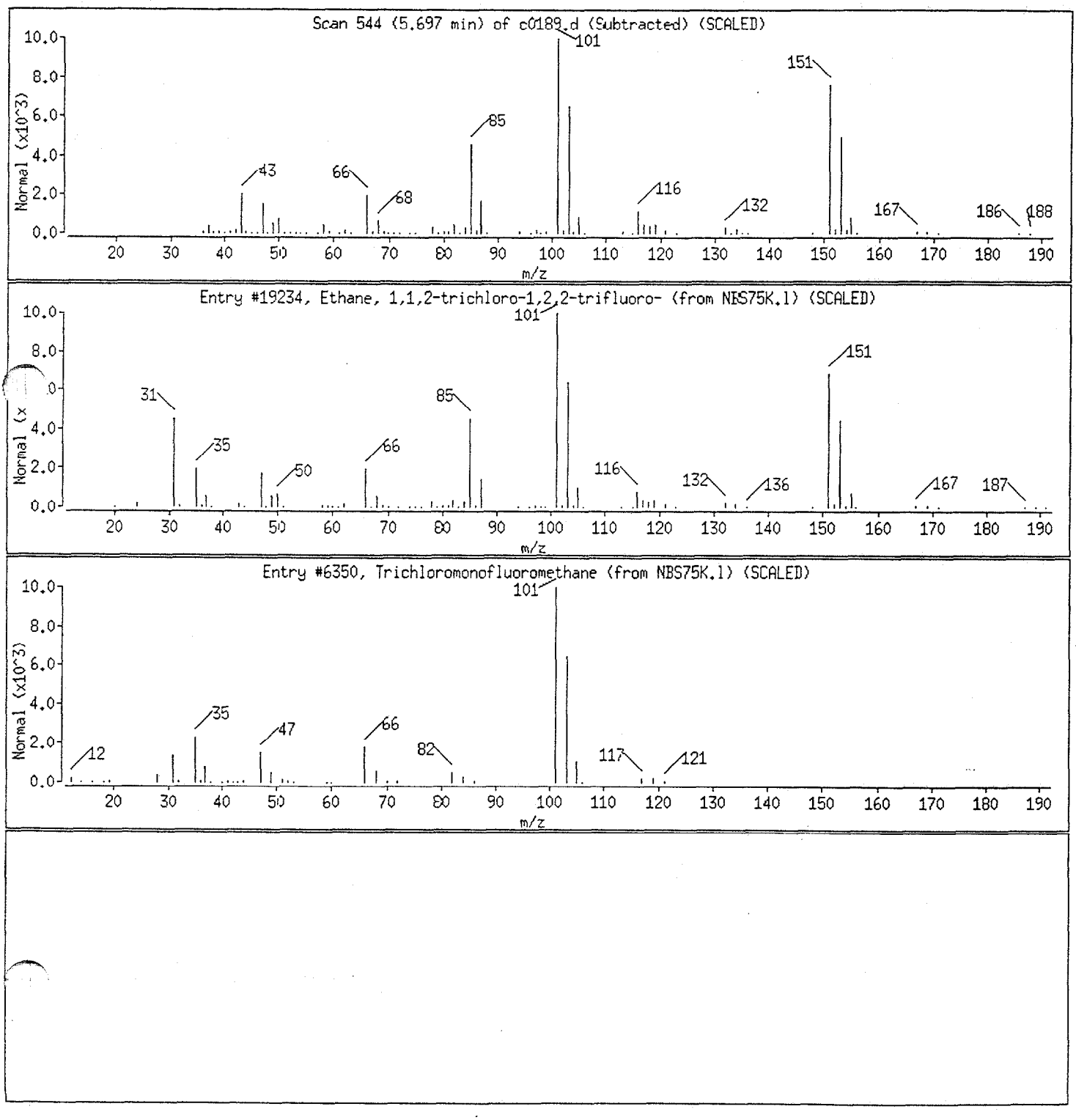




Data File: /chem/aux/msc.i/c111894.b/c0189.d
Date : 18-NOV-94 21:18
Instrument : msc.i
Sample ID : 15226n cljdws151
Column phase : J&W DB_624
Volume Injected (uL) : 0.0

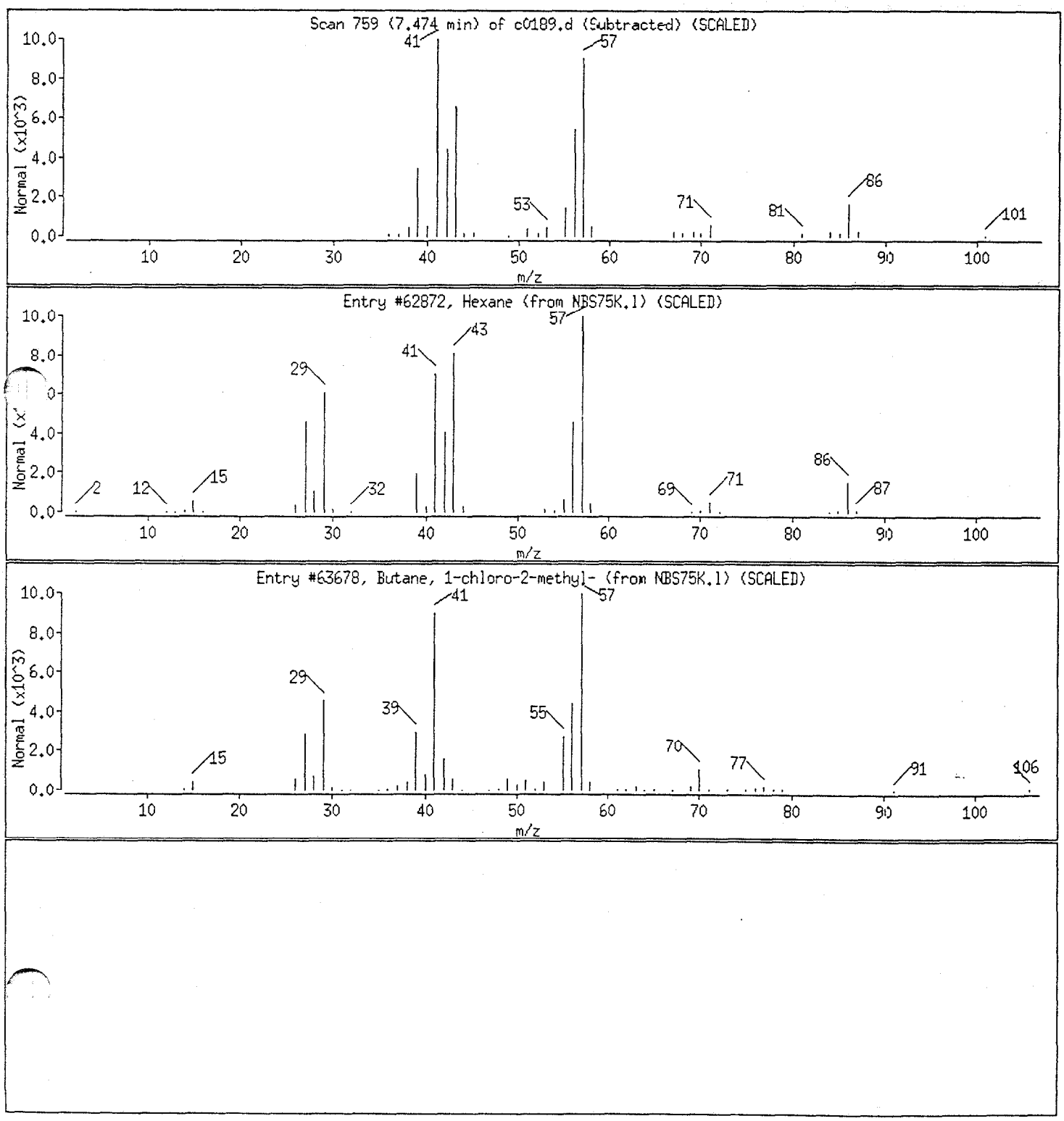
Column diameter : 0.53

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	NBS75K.1	19234	91
Trichloromonofluoromethane	75-69-4	NBS75K.1	6350	37



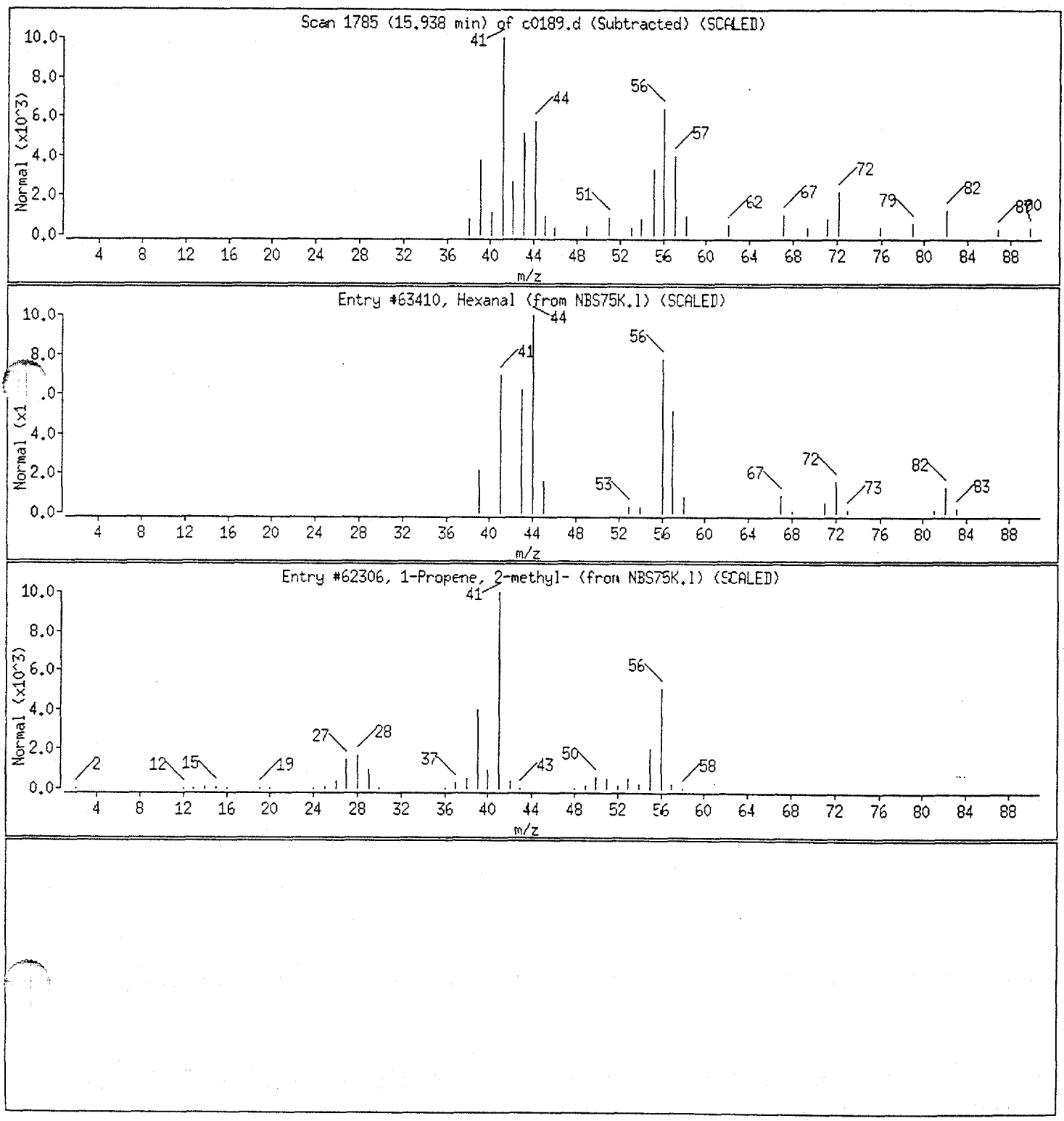
Data File: /chem/aux/msc.i/c111894.b/c0189.d
Date : 18-NOV-94 21:18
Instrument : msc.i
Sample ID : 15226n cljdws151
Column phase : J&W DB_624
Column diameter : 0.53
Volume Injected (uL) : 0.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Hexane	110-54-3	NBS75K.1	62872	80
Butane, 1-chloro-2-methyl-	616-13-7	NBS75K.1	63678	40



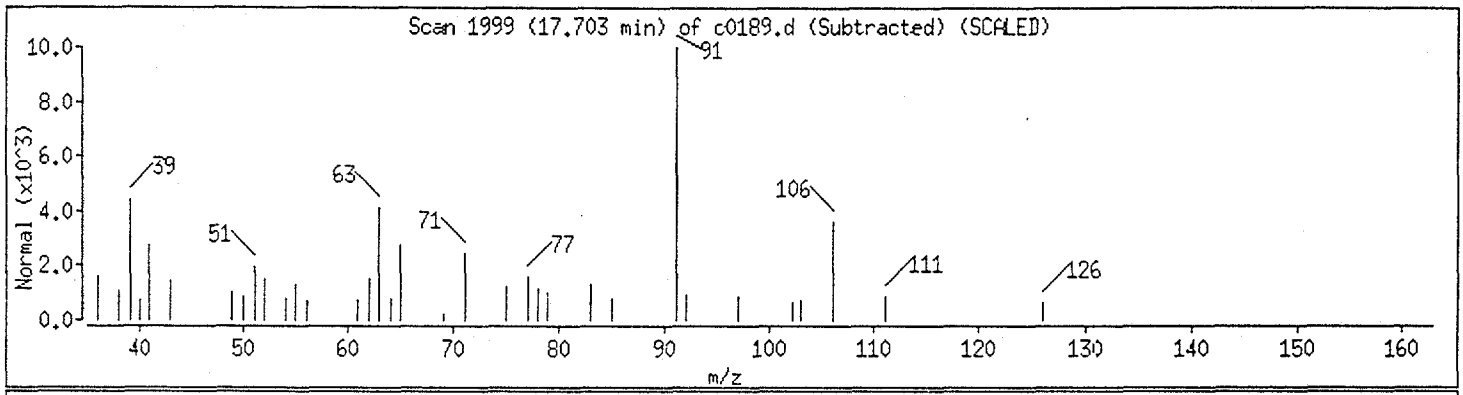
Data File: /chem/aux/msc.i/c111894.b/c0189.d
Date : 18-NOV-94 21:18
Instrument : msc.i
Sample ID : 15226n cljdws151
Column phase : J&W DB_624
Column diameter : 0.53
Volume Injected (uL) : 0.0

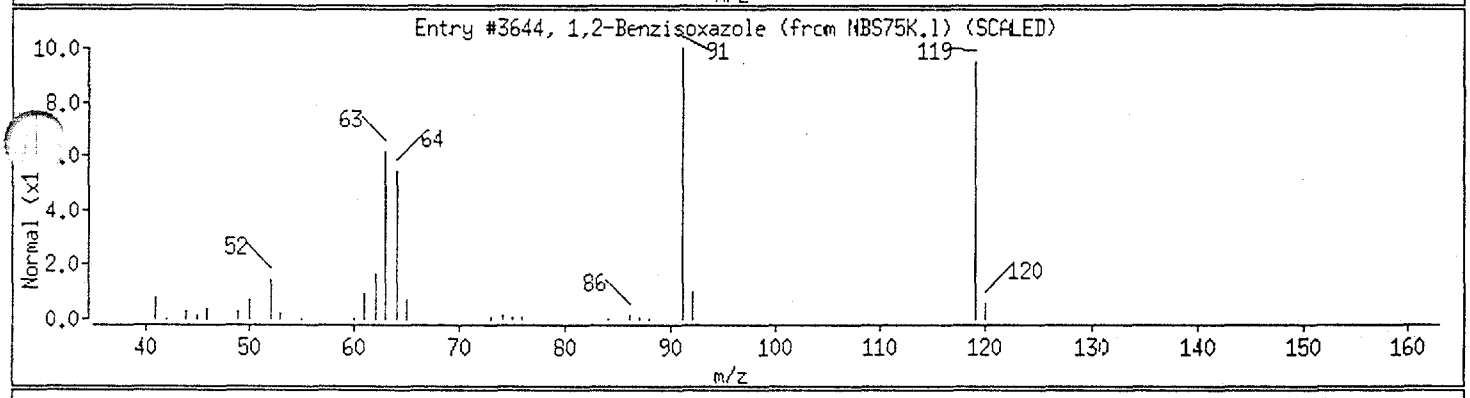
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Hexanal	66-25-1	NBS75K.l	63410	27
1-Propene, 2-methyl-	115-11-7	NBS75K.l	62306	18

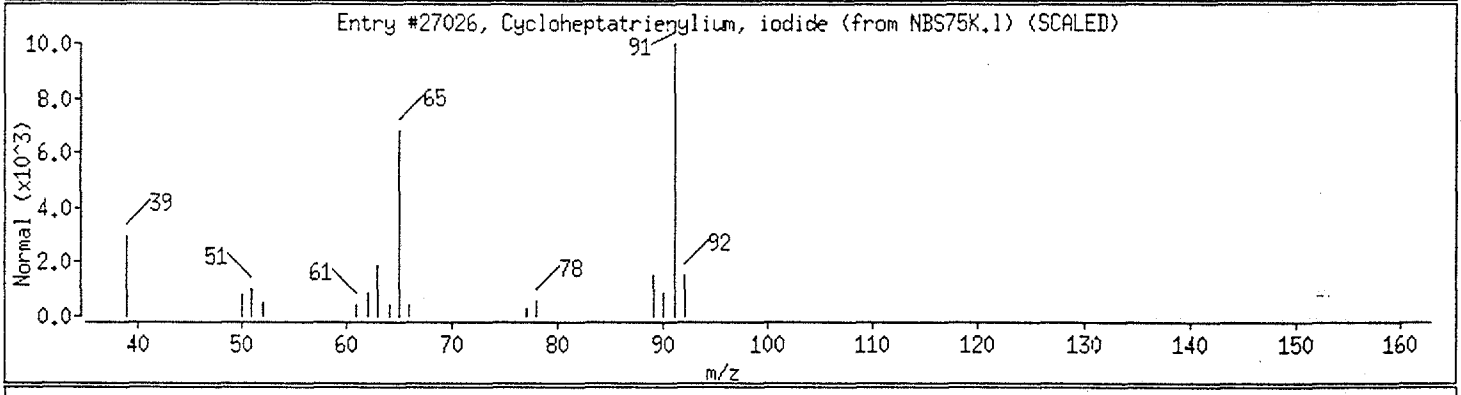


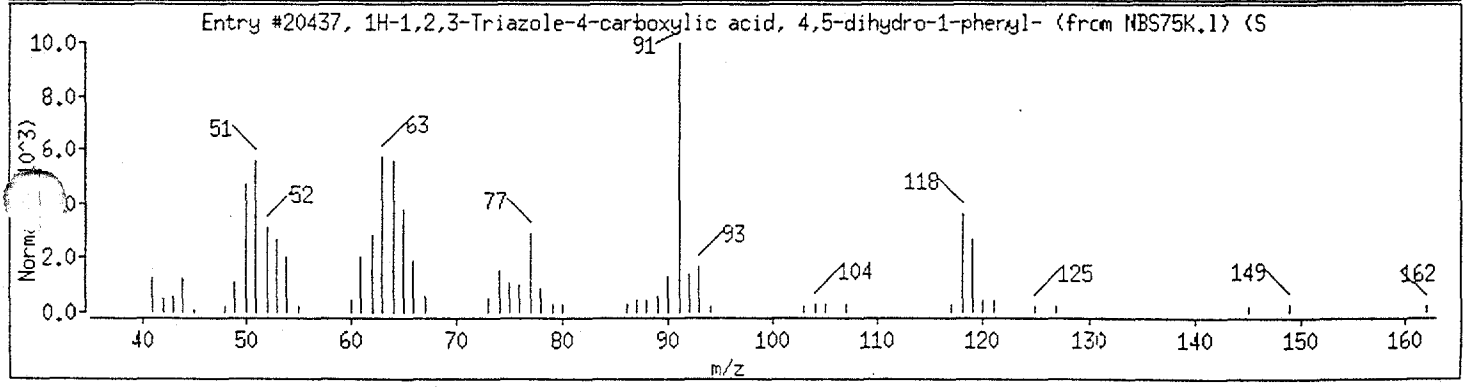
Data File: /chem/aux/msc.i/c111894.b/c0189.d
Date : 18-NOV-94 21:18
Instrument : msc.i
Sample ID : 15226n cljdws151
Column phase : J&W DB_624
Column diameter : 0.53
Volume Injected (uL) : 0.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
1,2-Benzisoxazole	271-95-4	NBS75K.l	3644	45
Cycloheptatrienylium, iodide	1316-80-9	NBS75K.l	27026	42
1H-1,2,3-Triazole-4-carboxylic acid, 4,5	54798-96-8	NBS75K.l	20437	38





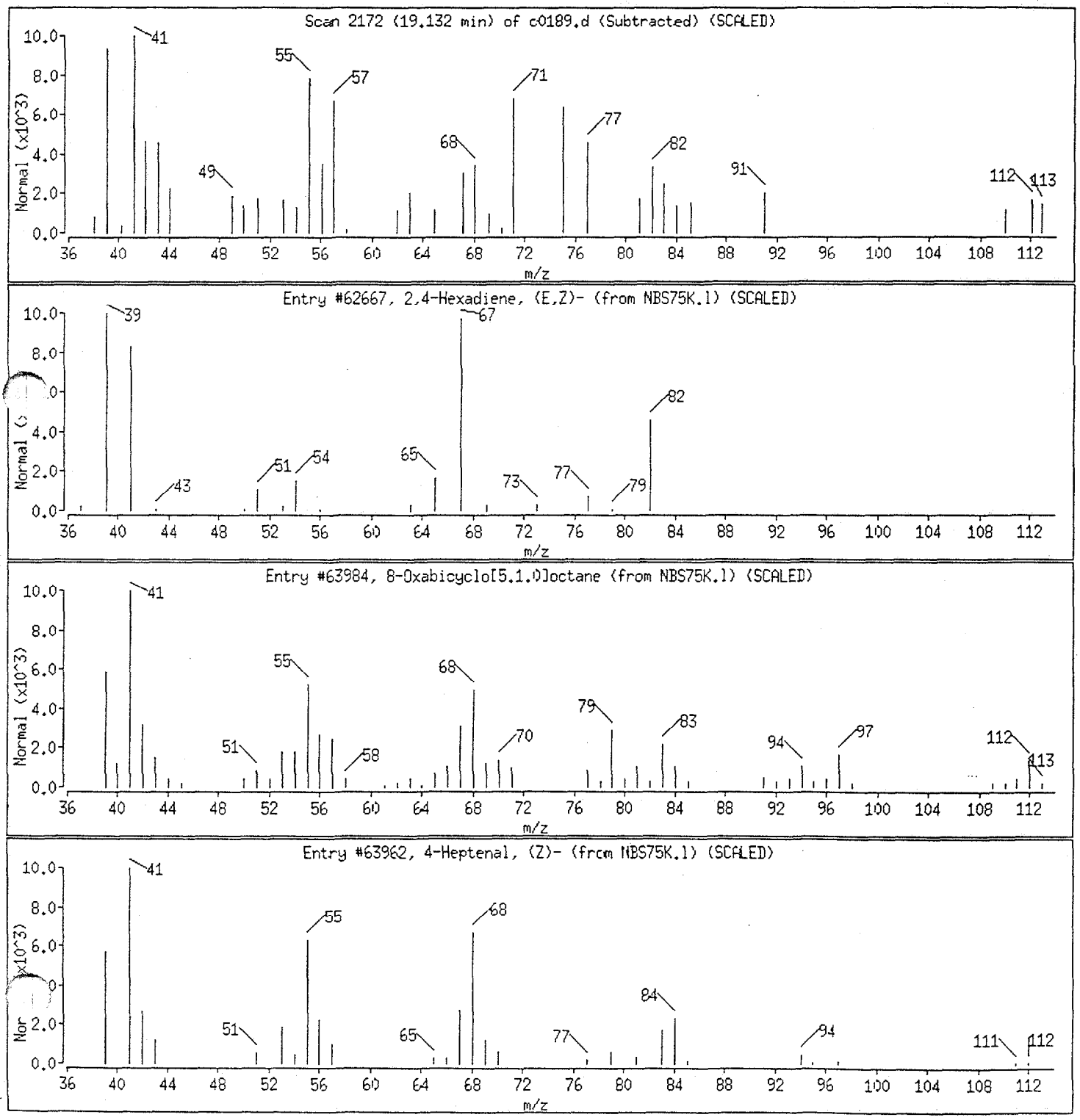




Data File: /chem/aux/msc.i/c111894.b/c0189.d
Date : 18-NOV-94 21:18
Instrument : msc.i
Sample ID : 15226n cljdws151
Column phase : J&W DB_624
Volume Injected (uL) : 0.0

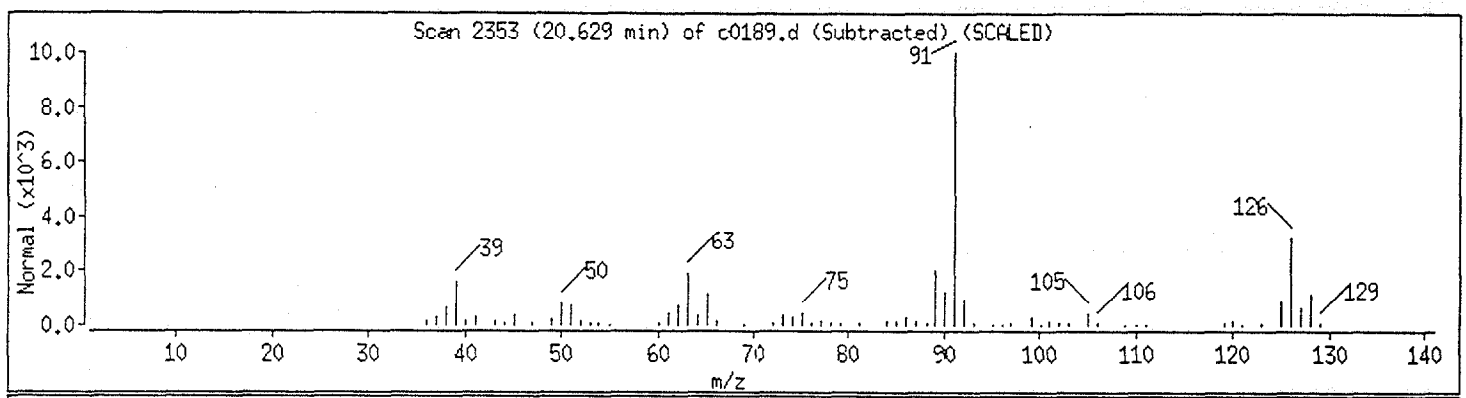
Column diameter : 0.53

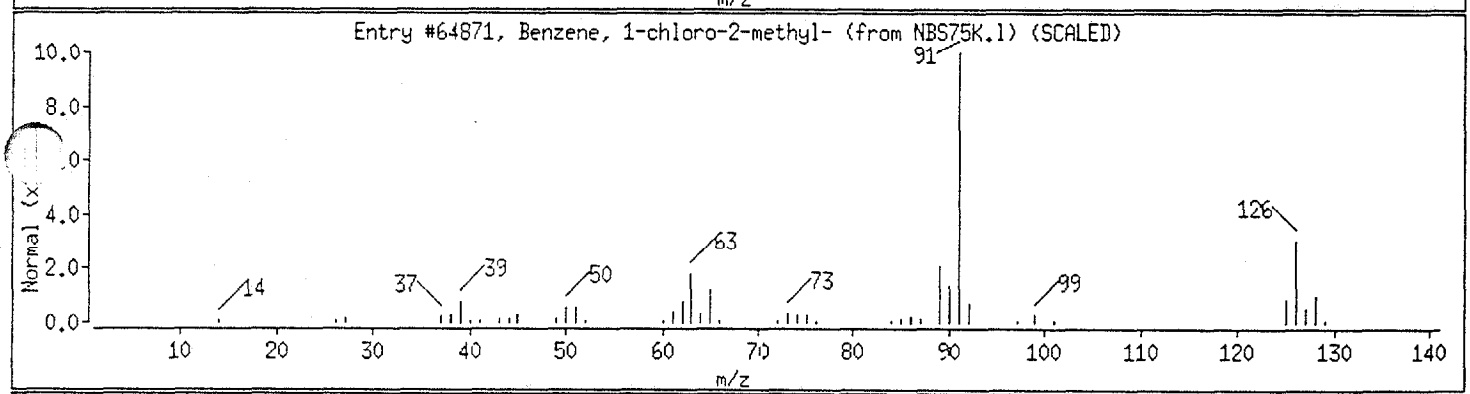
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
2,4-Hexadiene, (E,Z)-	5194-50-3	NBS75K.1	62667	43
8-Oxabicyclo[5.1.0]octane	286-45-3	NBS75K.1	63984	40
4-Heptenal, (Z)-	6728-31-0	NBS75K.1	63962	40

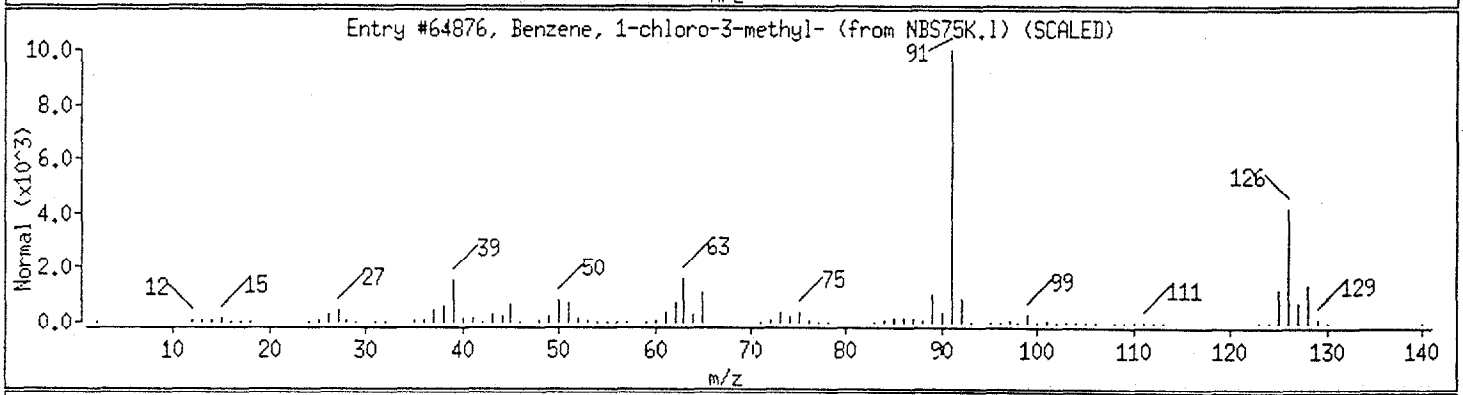


Data File: /chem/aux/msc.i/c111894.b/c0189.d
Date : 18-NOV-94 21:18
Instrument : msc.i
Sample ID : 15226n cljdws151
Column phase : J&W DB_624
Column diameter : 0.53
Volume Injected (uL) : 0.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Benzene, 1-chloro-2-methyl-	95-49-8	NBS75K.1	64871	96
Benzene, 1-chloro-3-methyl-	108-41-8	NBS75K.1	64876	93

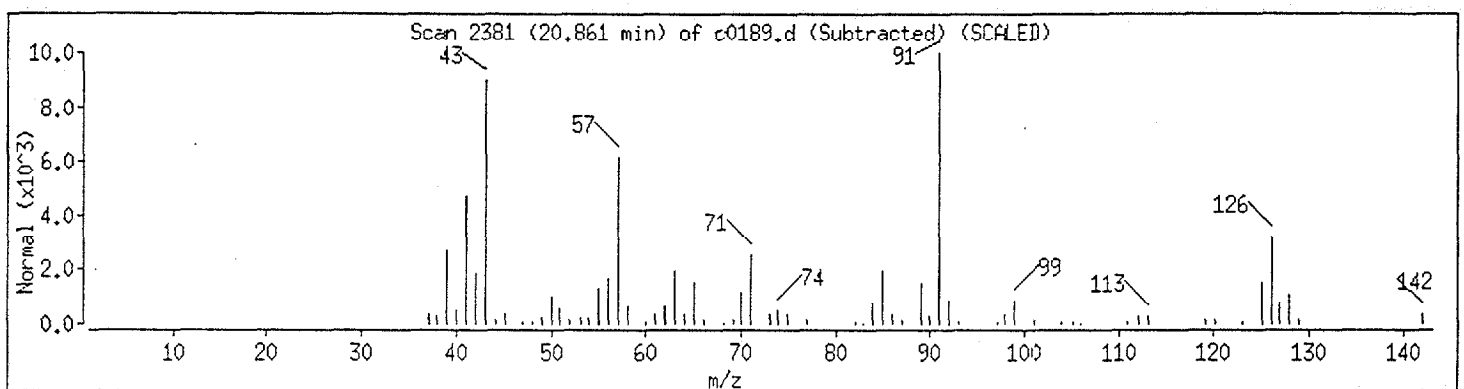


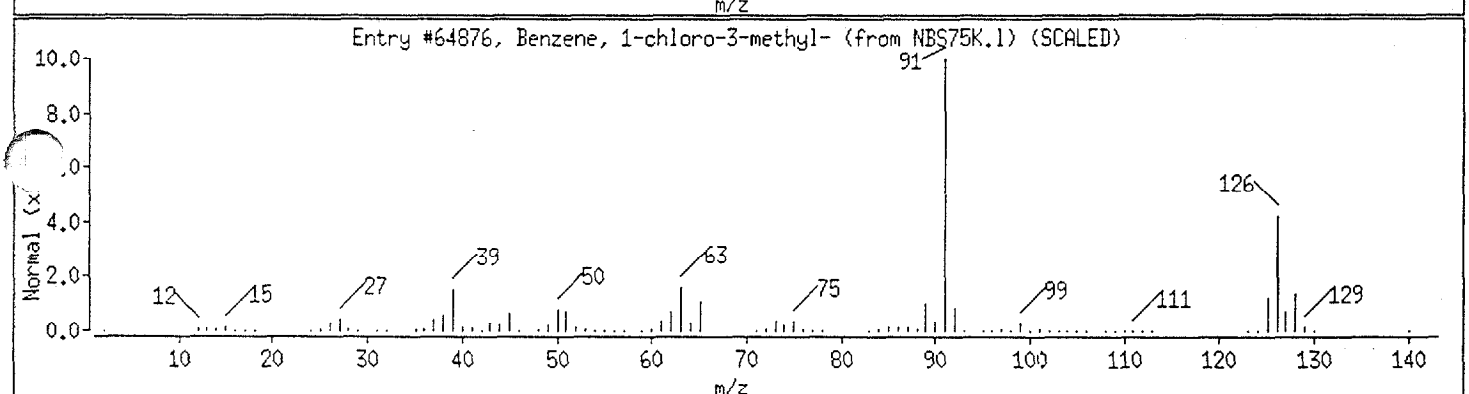


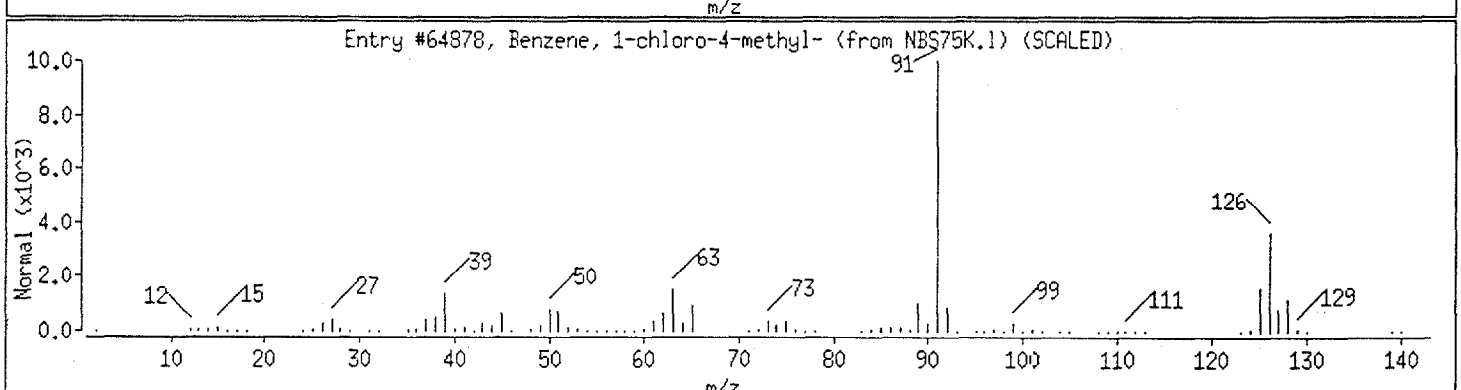


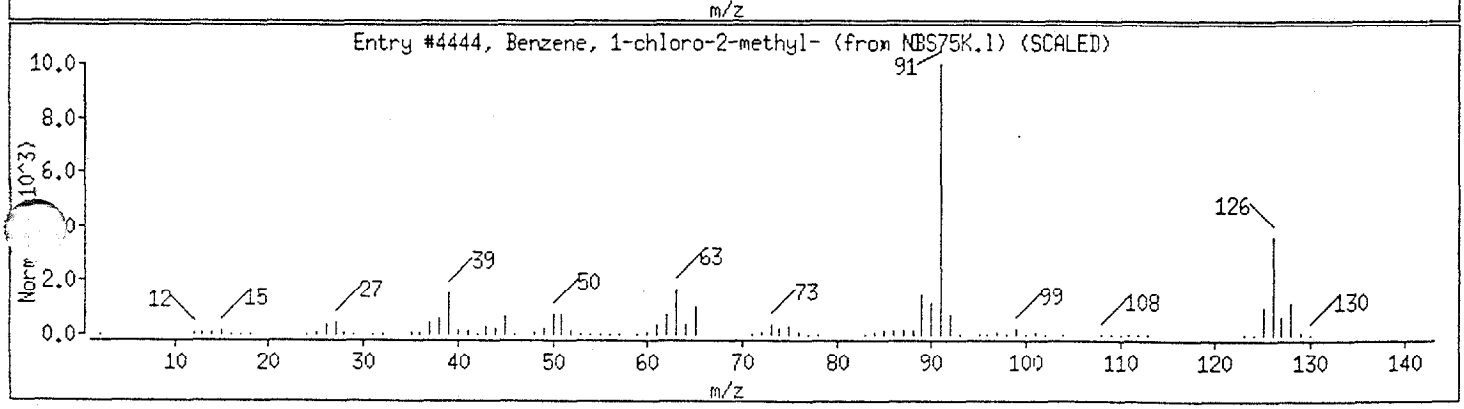
Data File: /chem/aux/msc.i/c111894.b/c0189.d
Date : 18-NOV-94 21:18
Instrument : msc.i
Sample ID : 15226n cljdws151
Column phase : J&W DB_624
Column diameter : 0.53
Volume Injected (uL) : 0.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Benzene, 1-chloro-3-methyl-	108-41-8	NBS75K.1	64876	91
Benzene, 1-chloro-4-methyl-	106-43-4	NBS75K.1	64878	91
Benzene, 1-chloro-2-methyl-	95-49-8	NBS75K.1	4444	78



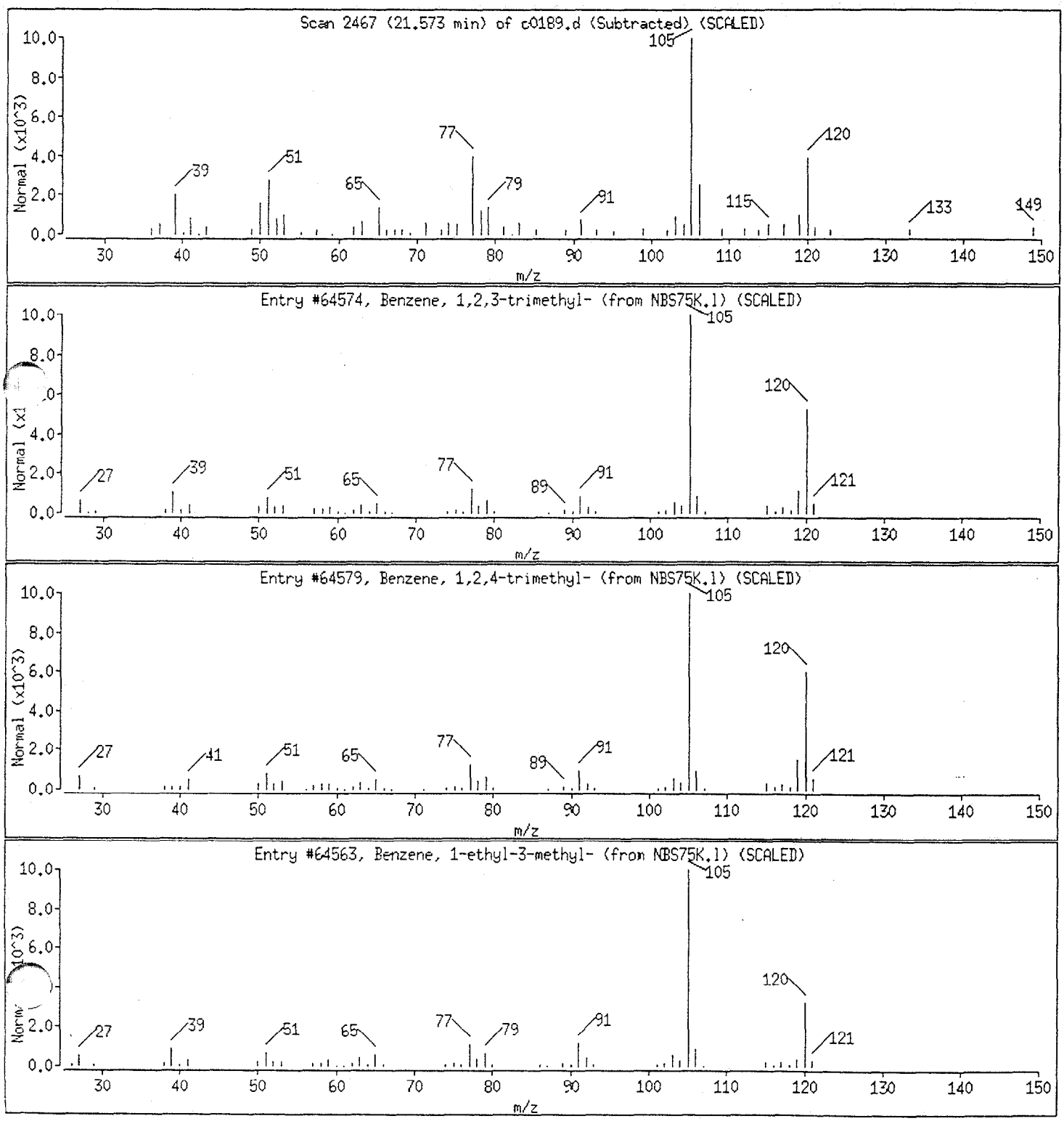






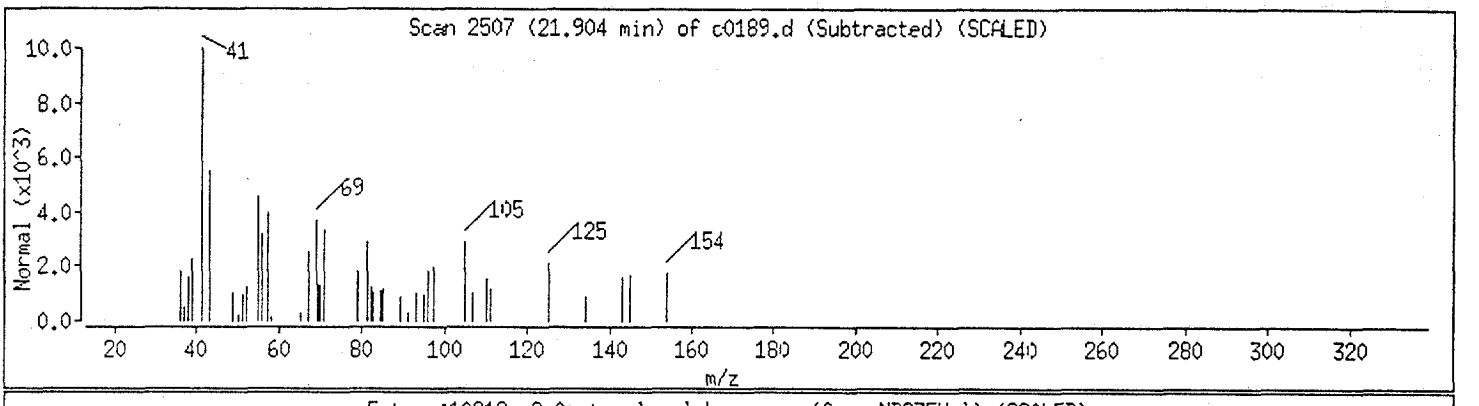
Data File: /chem/aux/msc.i/c111894.b/c0189.d
Date : 18-NOV-94 21:18
Instrument : msc.i
Sample ID : 15226n cljdws151
Column phase : J&W DB_624
Column diameter : 0.53
Volume Injected (uL) : 0.0

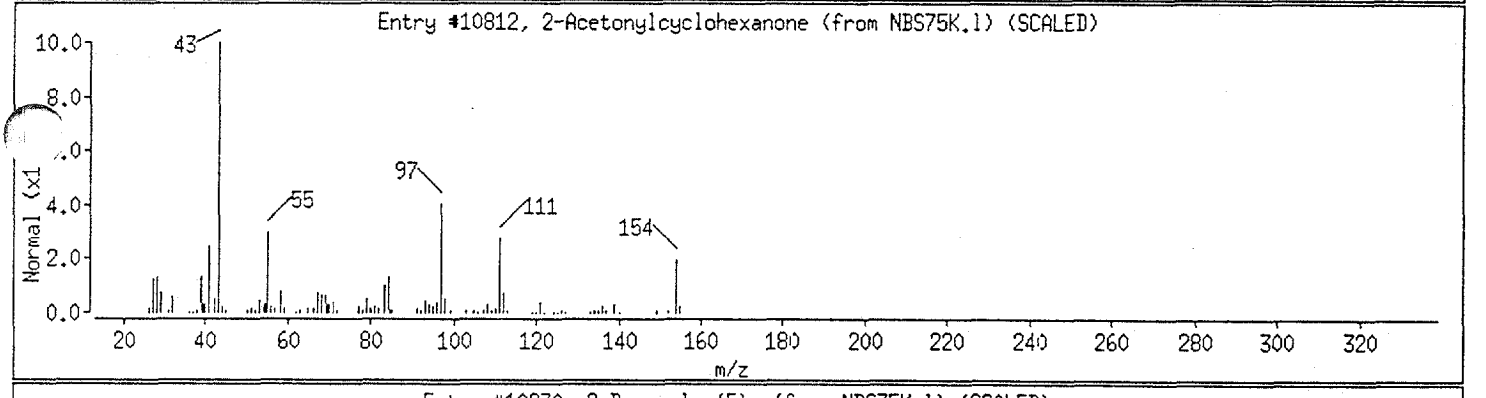
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Benzene, 1,2,3-trimethyl-	526-73-8	NBS75K.1	64574	68
Benzene, 1,2,4-trimethyl-	95-63-6	NBS75K.1	64579	64
Benzene, 1-ethyl-3-methyl-	620-14-4	NBS75K.1	64563	64

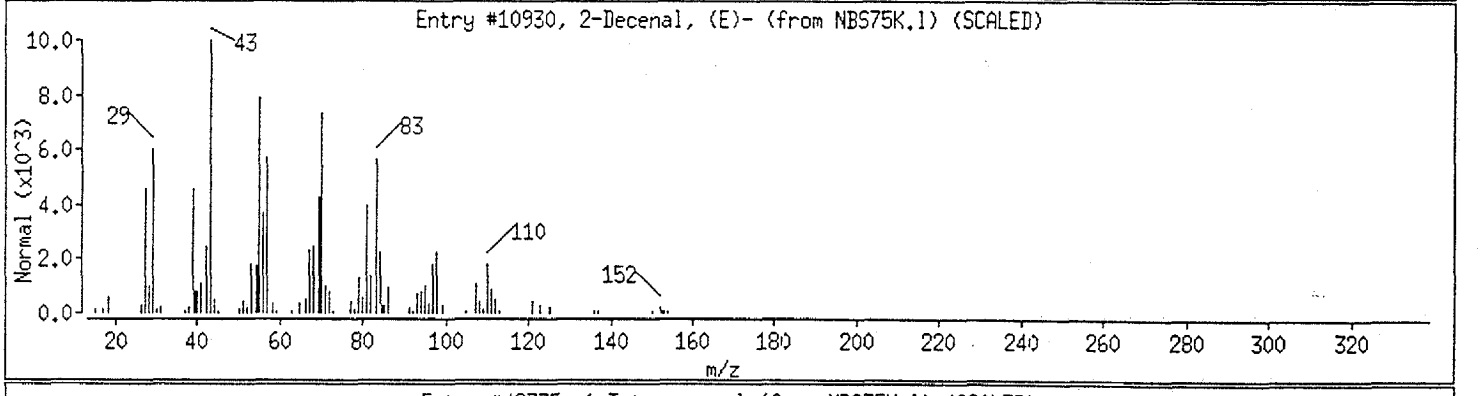


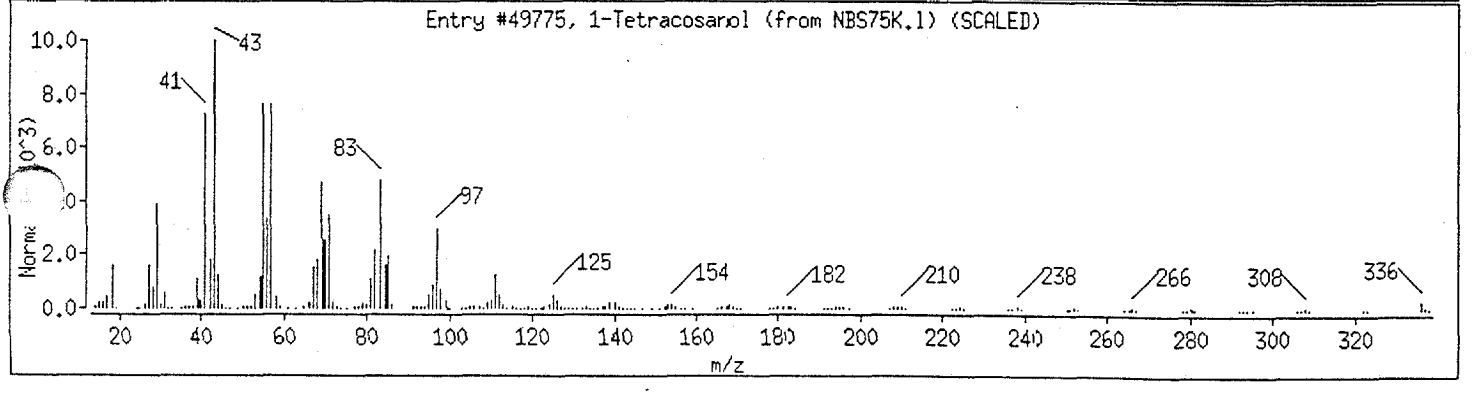
Data File: /chem/aux/msc.i/c111894.b/c0189.d
Date : 18-NOV-94 21:18
Instrument : msc.i
Sample ID : 15226n cljdws151
Column phase : J&W DB_624
Column diameter : 0.53
Volume Injected (uL) : 0.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
2-Acetonylcyclohexanone	6126-53-0	NBS75K.1	10812	14
2-Decenal, (E)-	3913-81-3	NBS75K.1	10930	10
1-Tetracosanol	506-51-4	NBS75K.1	49775	10



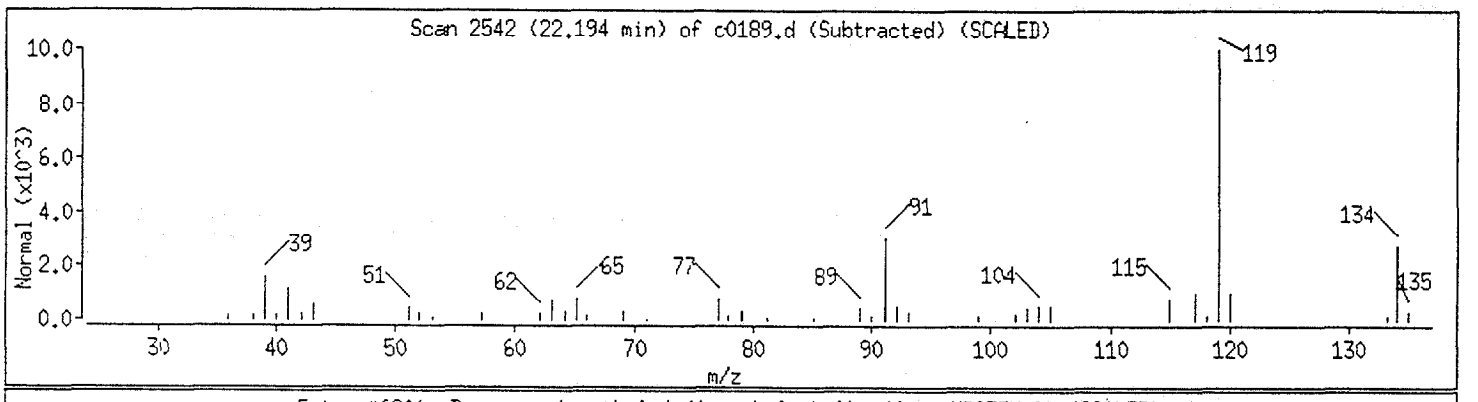


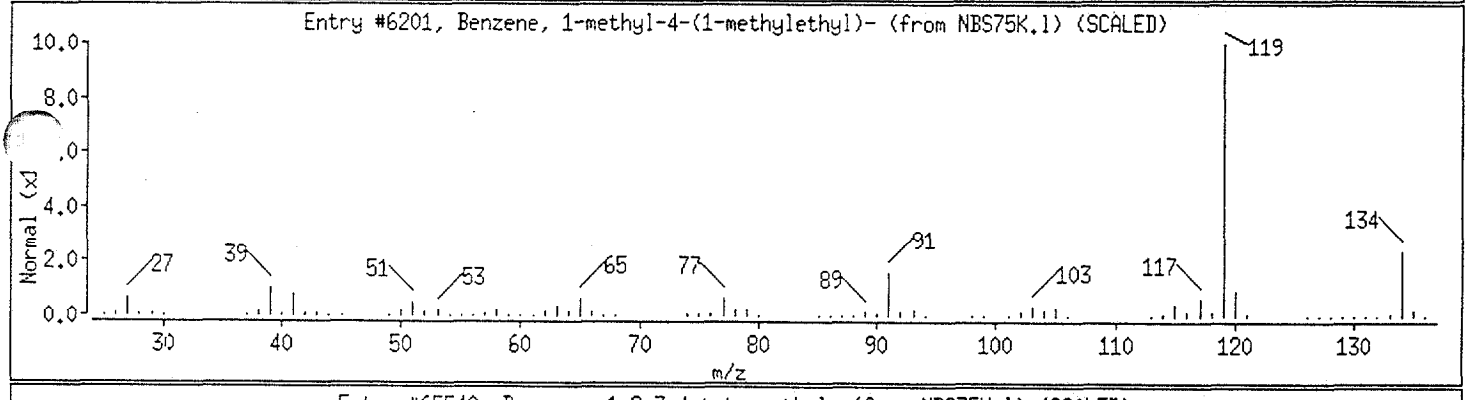


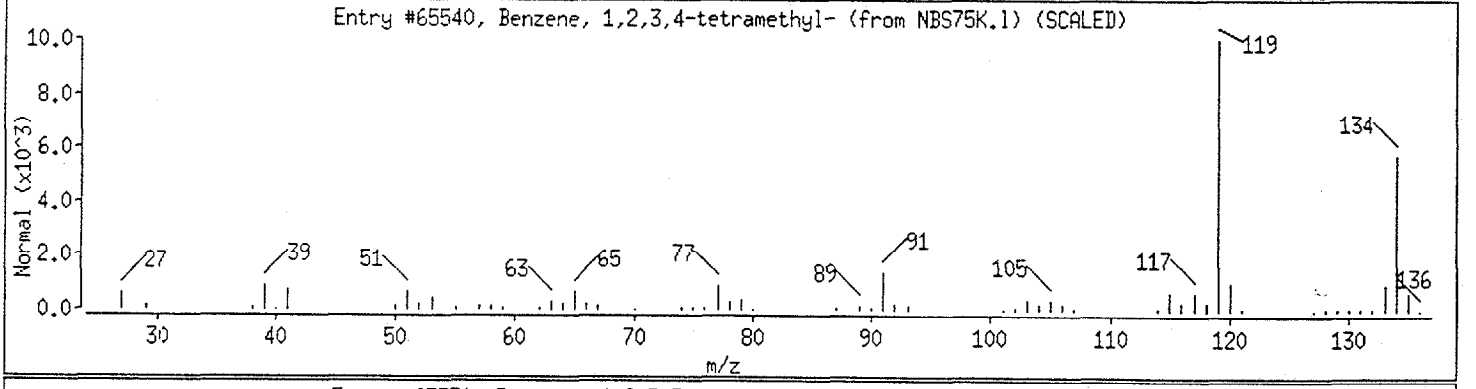


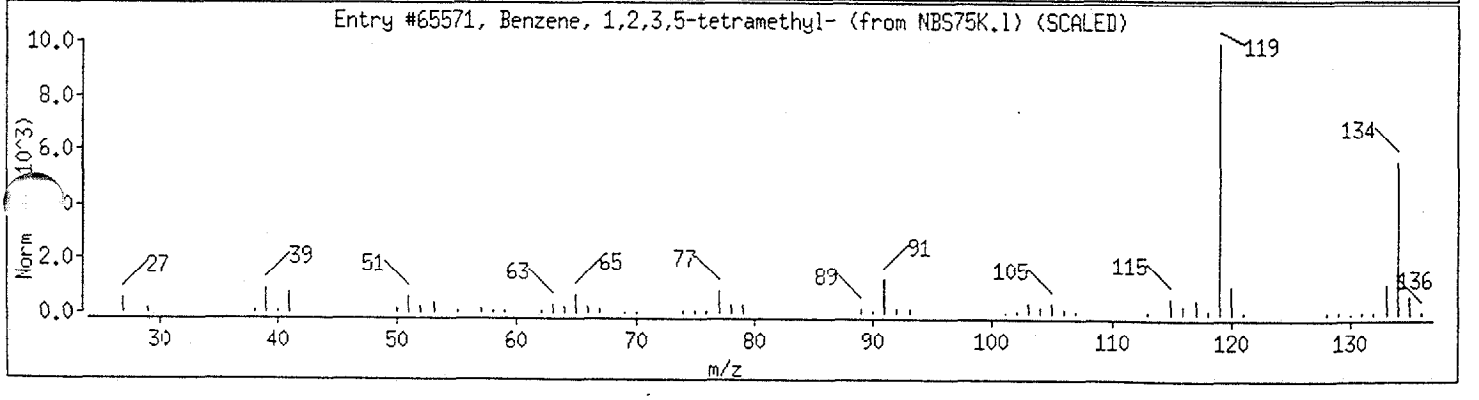
Data File: /chem/aux/msc.i/c111894.b/c0189.d
Date : 18-NOV-94 21:18
Instrument : msc.i
Sample ID : 15226n cljdws151
Column phase : J&W DB_624
Column diameter : 0.53
Volume Injected (uL) : 0.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Benzene, 1-methyl-4-(1-methylethyl)-	99-87-6	NBS75K.1	6201	91
Benzene, 1,2,3,4-tetramethyl-	488-23-3	NBS75K.1	65540	91
Benzene, 1,2,3,5-tetramethyl-	527-53-7	NBS75K.1	65571	91



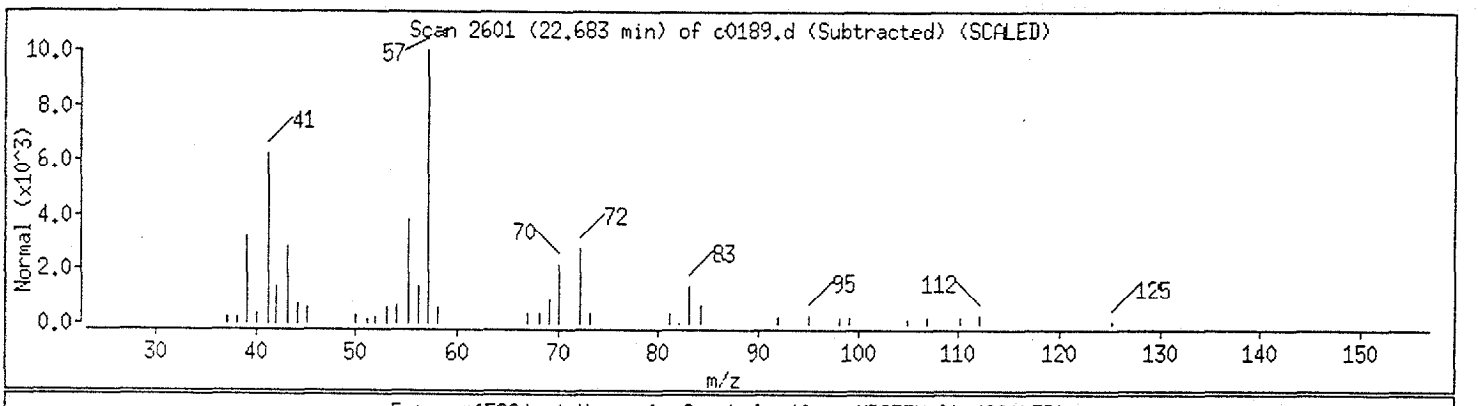


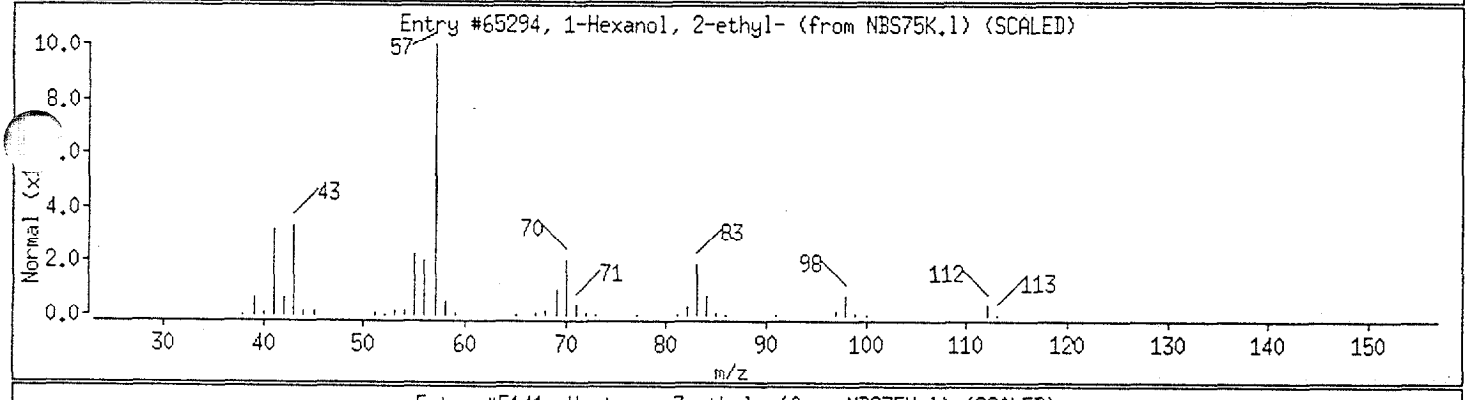


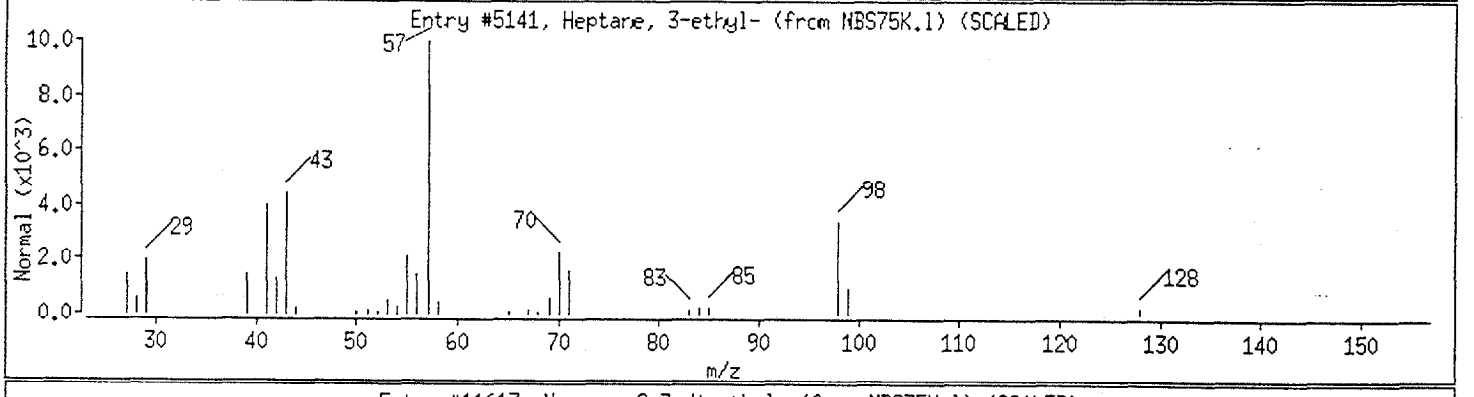


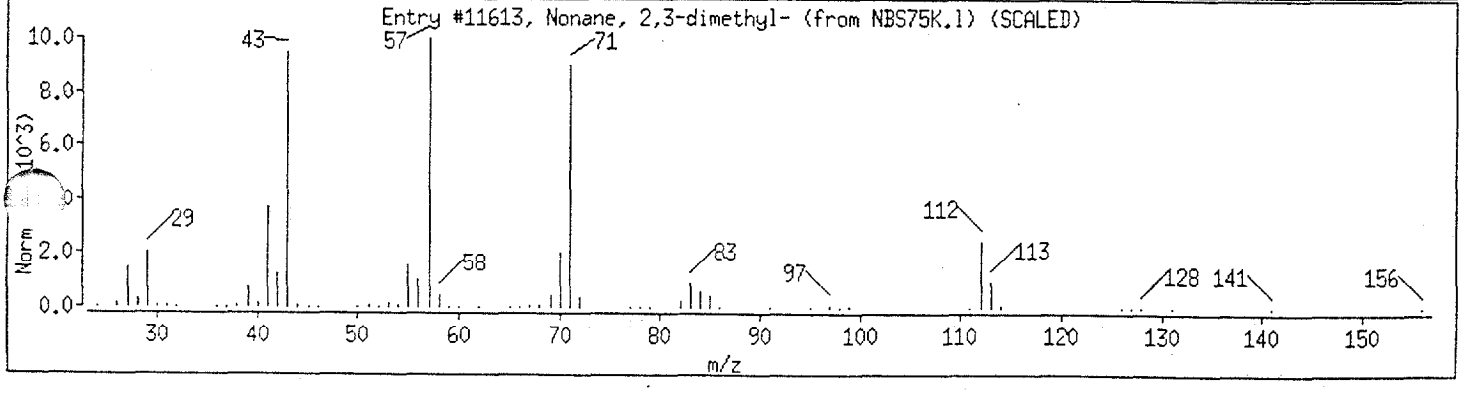
Data File: /chem/aux/msc.i/c111894.b/c0189.d
Date : 18-NOV-94 21:18
Instrument : msc.i
Sample ID : 15226n cljdws151
Column phase : J&W DB_624
Column diameter : 0.53
Volume Injected (uL) : 0.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
1-Hexanol, 2-ethyl-	104-76-7	NBS75K.1	65294	50
Heptane, 3-ethyl-	15869-80-4	NBS75K.1	5141	47
Nonane, 2,3-dimethyl-	2884-06-2	NBS75K.1	11613	42



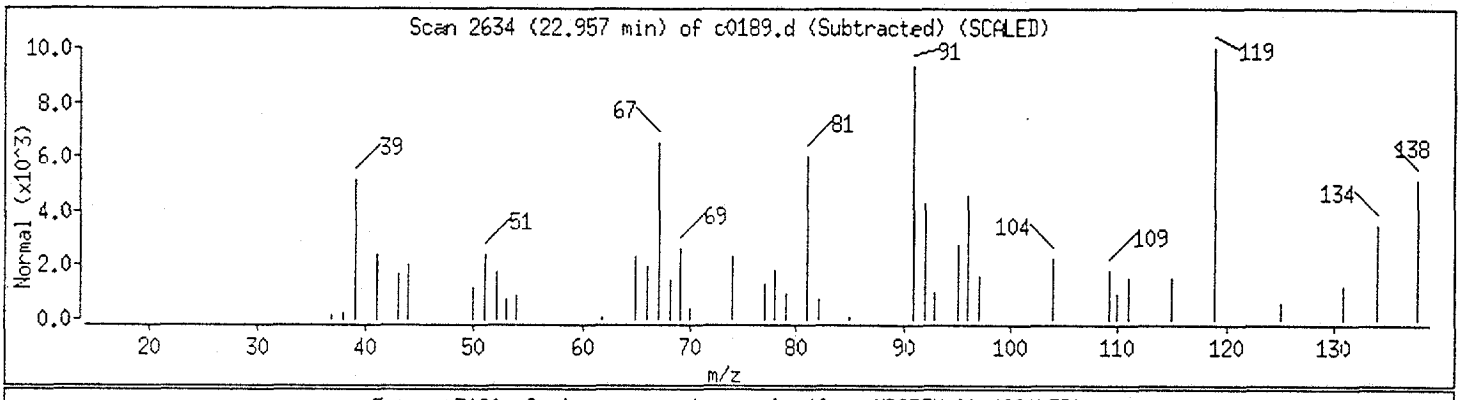


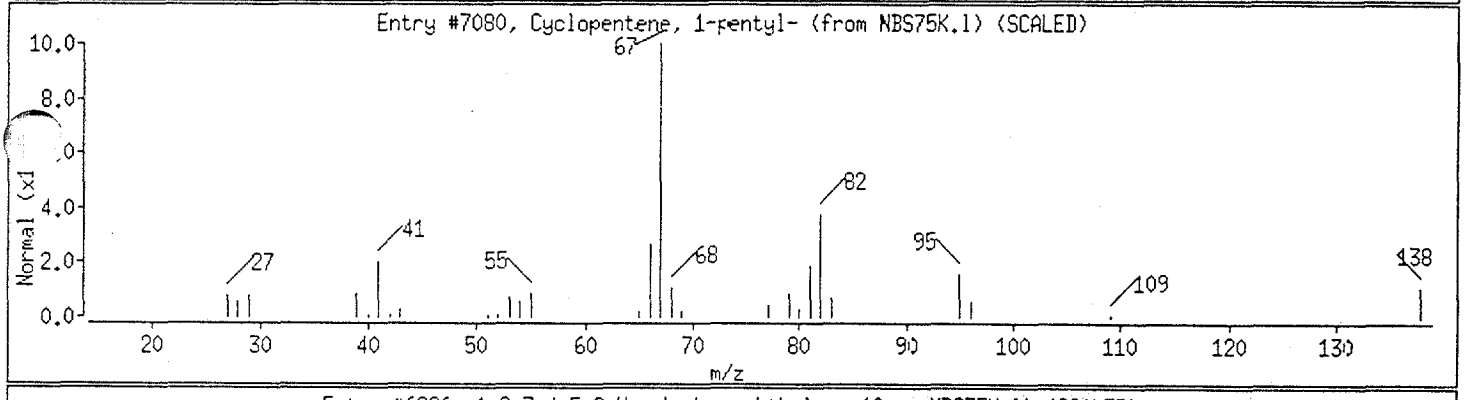


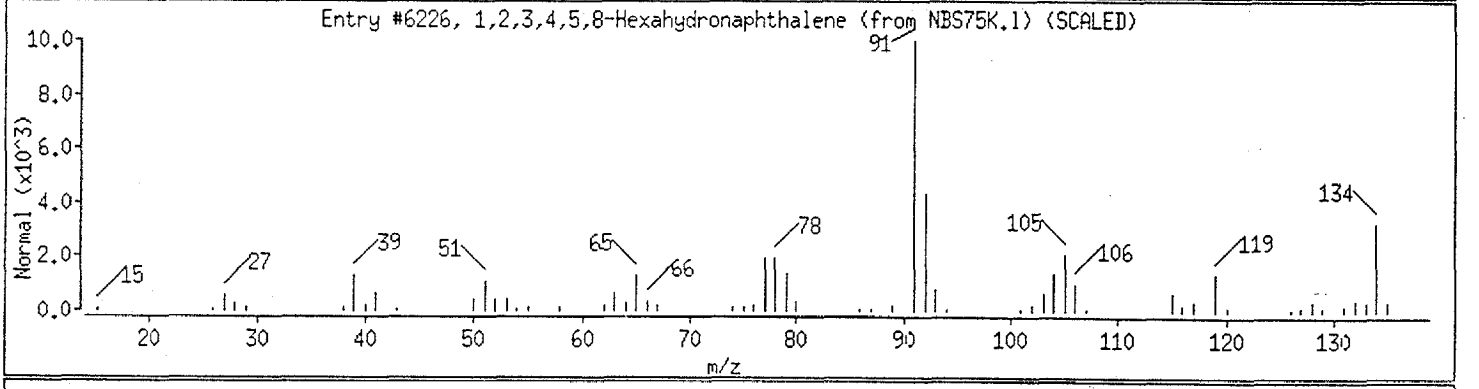


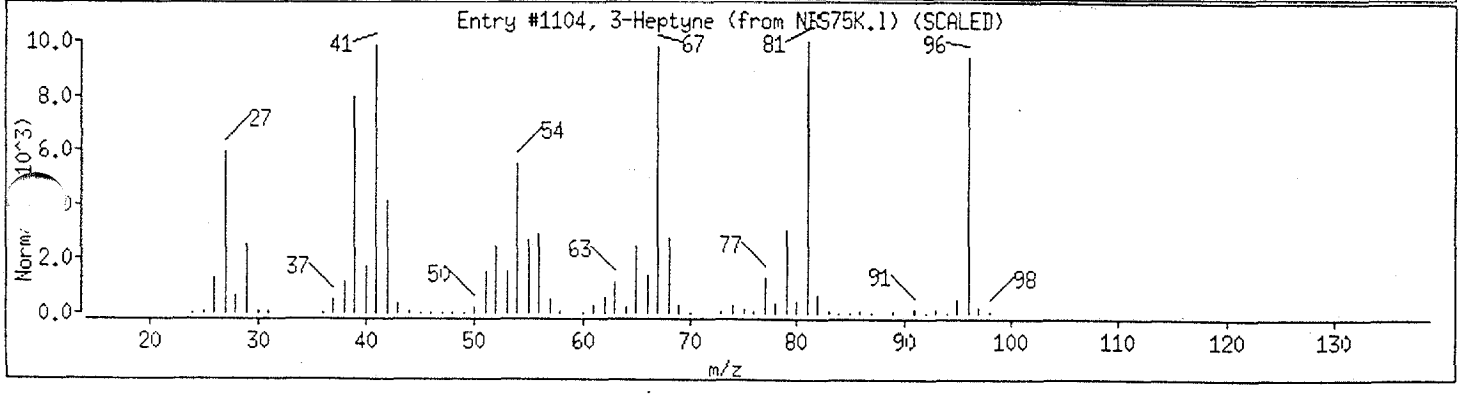
Data File: /chem/aux/msc.i/c111894.b/c0189.d
Date : 18-NOV-94 21:18
Instrument : msc.i
Sample ID : 15226n cljdws151
Column phase : J&W DB_624
Column diameter : 0.53
Volume Injected (uL) : 0.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Cyclopentene, 1-pentyl-	4291-98-9	NBS75K.l	7080	35
1,2,3,4,5,8-Hexahydronaphthalene	36231-13-7	NBS75K.l	6226	11
3-Heptyne	2586-89-2	NBS75K.l	1104	11





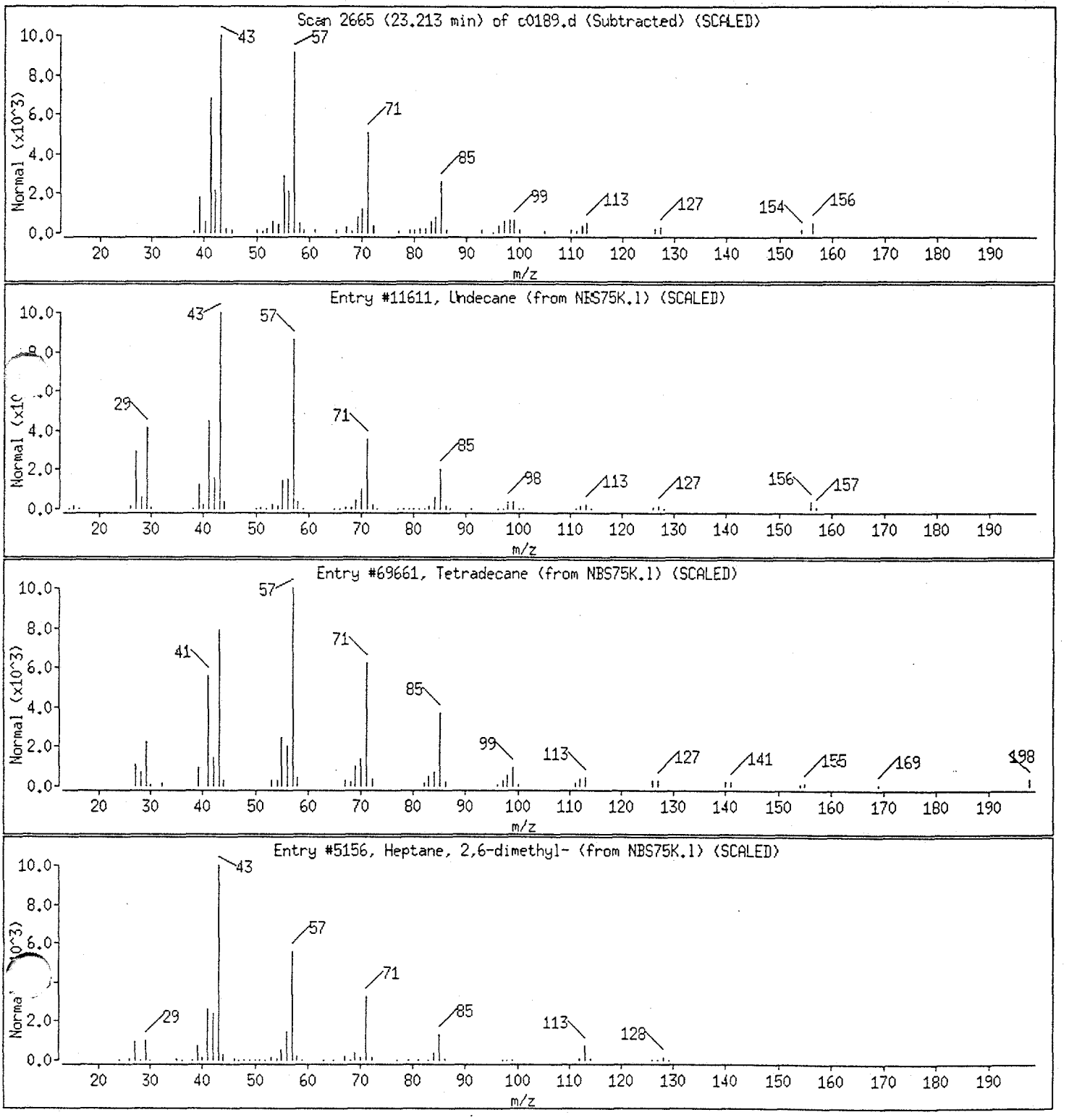




Data File: /chem/aux/msc.i/c111894.b/c0189.d

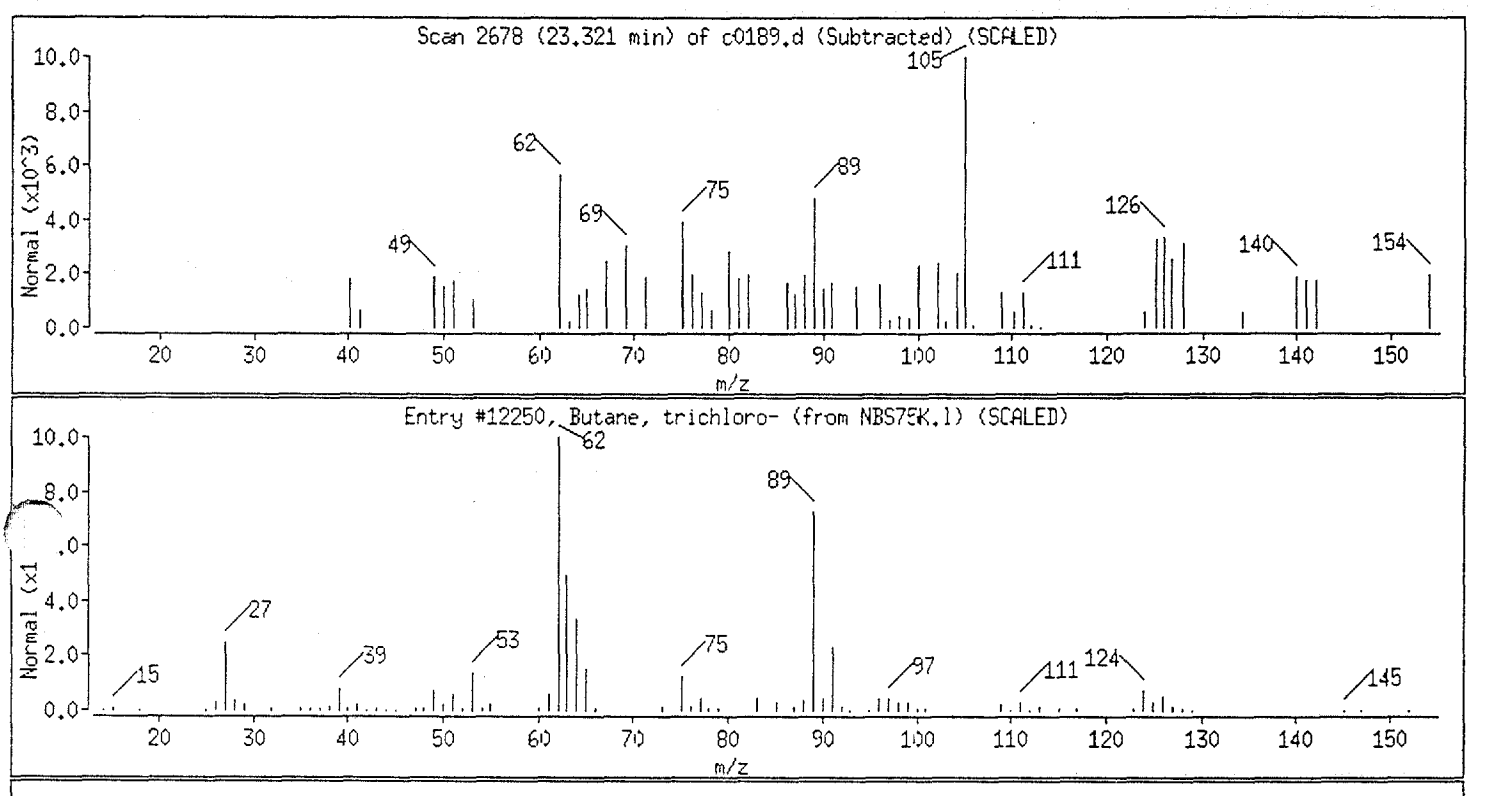
Date : 18-NOV-94 21:18
Instrument : msc.i
Sample ID : 15226n cljdws151
Column phase : J&W DB_624 Column diameter : 0.53
Volume Injected (uL) : 0.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Undecane	1120-21-4	NBS75K.l	11611	95
Tetradecane	629-59-4	NBS75K.l	69661	80
Heptane, 2,6-dimethyl-	1072-05-5	NBS75K.l	5156	80



Data File: /chem/aux/msc.i/c111894.b/c0189.d
Date : 18-NOV-94 21:18
Instrument : msc.i
Sample ID : 15226n cljdws151
Column phase : J&W DB_624
Column diameter : 0.53
Volume Injected (uL) : 0.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Butane, trichloro-	30028-27-4	NBS75K.1	12250	25



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CLJDWS151DL

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJDWS075

Matrix: (soil/water) SOIL Lab Sample ID: JN4742V

Sample wt/vol: 1.02 (g/mL) G Lab File ID: C0206

Level: (low/med) LOW Date Received: 11/10/94

% Moisture: not dec. 7 Date Analyzed: 11/19/94

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	25	U
74-83-9	Bromomethane	25	U
75-01-4	Vinyl Chloride	25	U
75-00-3	Chloroethane	25	U
75-09-2	Methylene Chloride	61	BD
67-64-1	Acetone	260	D
75-15-0	Carbon Disulfide	25	U
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
67-66-3	Chloroform	100	D
107-06-2	1,2-Dichloroethane	25	U
78-93-3	2-Butanone	43	D
71-55-6	1,1,1-Trichloroethane	25	U
56-23-5	Carbon Tetrachloride	5	JD
75-27-4	Bromodichloromethane	25	U
78-87-5	1,2-Dichloropropane	25	U
10061-01-5	cis-1,3-Dichloropropene	25	U
79-01-6	Trichloroethene	8	JD
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-Trichloroethane	25	U
71-43-2	Benzene	5	JD
10061-02-6	trans-1,3-Dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	Methyl-iso-butyl ketone	49	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethylene	27	D
79-34-5	1,1,2,2-Tetrachloroethane	14	JD
108-88-3	Toluene	33	D
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	25	U
100-42-5	Styrene	25	U
1330-20-7	Xylene (total)	37	D
156-60-5	1,2-Trans-dichloroethylene	25	U

00069
EPA SAMPLE NO.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLJDWS151DL

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJDWS075

Matrix: (soil/water) SOIL Lab Sample ID: JN4742V

Sample wt/vol: 1.02 (g/mL) G Lab File ID: C0206

Level: (low/med) LOW Date Received: 11/10/94

% Moisture: not dec. 7 Date Analyzed: 11/19/94

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: _____ (uL)

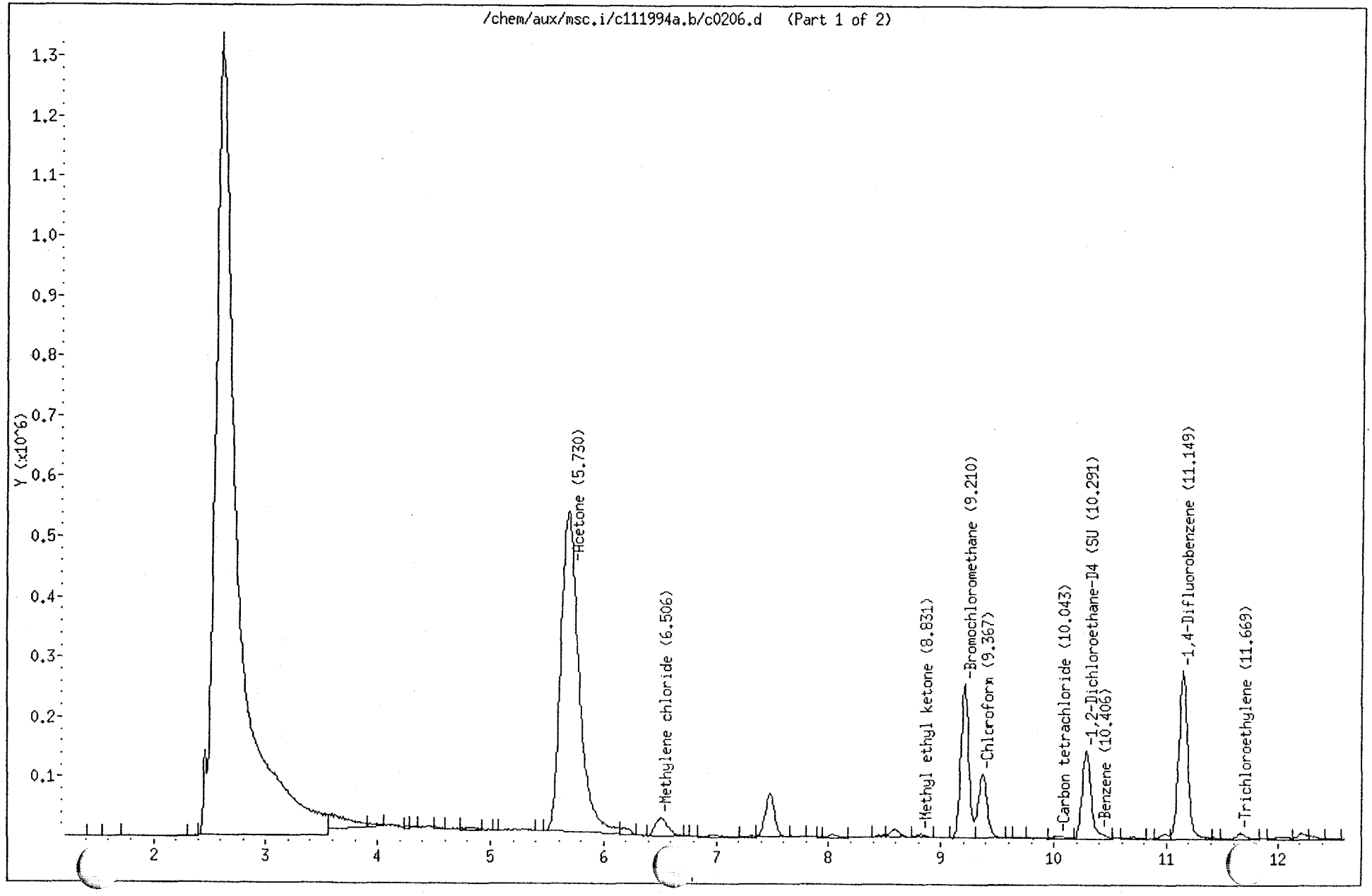
Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	See run # C0159.d			

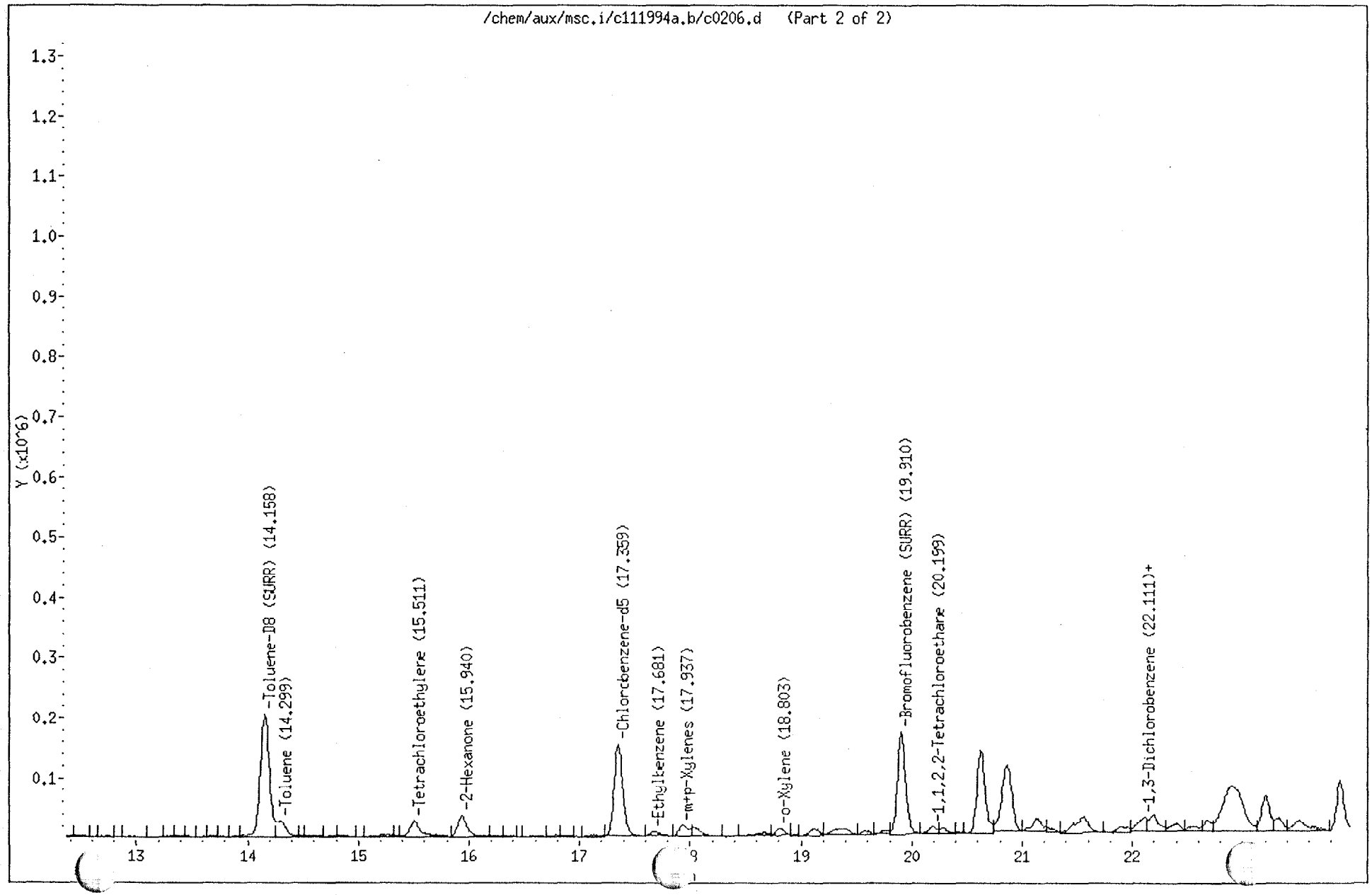
00070

Data File: /chem/aux/msc.i/c111994a.b/c0206.d
Date : 19-NOV-94 21:56
Instrument : msc.i
Sample ID : 15226n cljdws151
Column phase : J&W DB_624
Volume Injected (uL) : 0.0

Column diameter : 0.53



Data File: /chem/aux/msc.i/c111994a.b/c0206.d
Date : 19-NOV-94 21:56
Instrument : msc.i
Sample ID : 15226n cljdws151
Column phase : J&W DB_624
Column diameter : 0.53
Volume Injected (uL) : 0.0



Data File: /chem/aux/msc.i/c111994a.b/c0206.d
Report Date: 21-Nov-1994 08:18

Analytical Services Corp.

VOLATILE REPORT SW-846 Method 8240

1 IS and 3 Surr and

Data file : /chem/aux/msc.i/c111994a.b/c0206.d
Lab. Id. : Quant Type: ISTD
Inj Date : 19-NOV-94 21:56 Autotune Date: (
Operator : dana Inst ID: msc.i
Smp Info : 15226n cljdws151
Misc Info : jn4742v,m2v4030,s:m2,1.02,5.00:1,
Comment :
Method : /chem/aux/msc.i/c111994a.b/8240heatc.m
Meth Date : 21-Nov-1994 08:15 jeff
Cal Date : 19-NOV-94 19:38 Cal File: c0202.d
Als bottle: 33
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/l)	FINAL (ug/l)
	7 Acetone	43.00	5.730	(0.622)	101885	52.9	52.9(a)
	9 Methylene chloride	84.00	6.506	(0.706)	55446	12.4	12.4
	14 Methyl ethyl ketone	72.00	8.831	(0.792)	4771	8.83	8.83(aQ)
*	15 Bromochloromethane	128.00	9.210	(1.000)	203483	50.0	
	16 Chloroform	83.00	9.367	(1.017)	218921	20.8	20.8
	18 Carbon tetrachloride	117.00	10.043	(0.901)	8079	1.07	1.07(a)
$	19 1,2-Dichloroethane-D4 (SURR)	65.00	10.291	(1.117)	278759	49.7	49.7
	20 Benzene	78.00	10.406	(0.933)	9276	1.05	1.05(a)
*	22 1,4-Difluorobenzene	114.00	11.149	(1.000)	645847	50.0	
	23 Trichloroethylene	130.00	11.677	(1.047)	9237	1.53	1.53(a)
$	29 Toluene-D8 (SURR)	98.00	14.158	(0.816)	411138	70.6	70.6(R)
	30 Toluene	92.00	14.291	(0.823)	26103	6.78	6.78
	33 Tetrachloroethylene	164.00	15.519	(0.894)	19412	5.57	5.57
	34 2-Hexanone	43.00	15.948	(0.919)	19948	6.60	~~6.60(aQ)~~ MS
*	36 Chlorobenzene-d5	117.00	17.359	(1.000)	254431	50.0	
	38 Ethylbenzene	106.00	17.681	(1.019)	3480	1.48	~~1.48(aQ)~~ MS
	39 m+p-Xylenes	106.00	17.945	(1.034)	14055	5.01	5.01
	40 o-Xylene	106.00	18.803	(1.083)	6941	2.48	2.48(a)
$	43 Bromofluorobenzene (SURR)	95.00	19.902	(1.147)	159060	36.6	36.6(R)
	44 1,1,2,2-Tetrachloroethane	83.00	20.199	(1.164)	12703	2.88	2.88(a)
	45 1,3-Dichlorobenzene	146.00	22.120	(1.274)	21572	3.56	3.56(a)
	46 1,4-Dichlorobenzene	146.00	22.120	(1.274)	21572	3.17	~~3.17(a)~~ RT

> only see run # C0189.d for Other

QC Flag Legend

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

Data File: /chem/aux/msc.i/c111994a.b/c0206.d

Date : 19-NOV-94 21:56

Instrument : msc.i

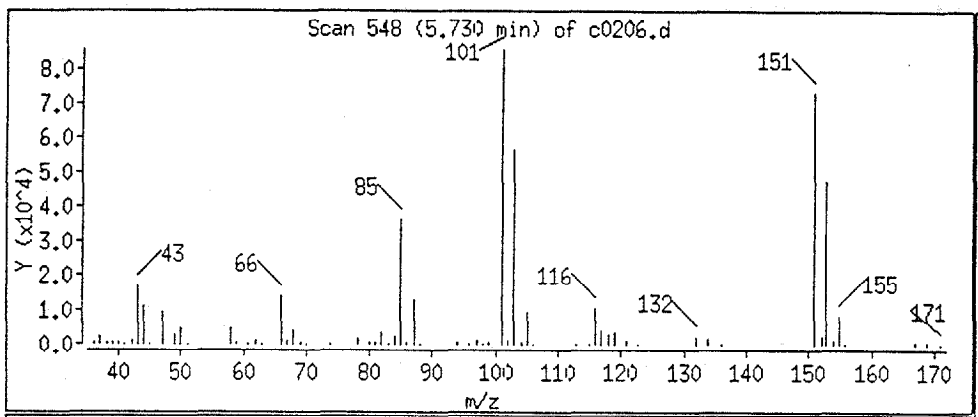
Sample ID : 15226n cljdws151

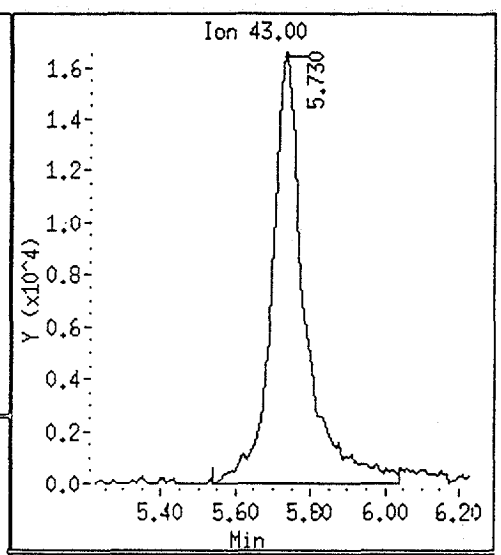
Column phase : J&W DB_624

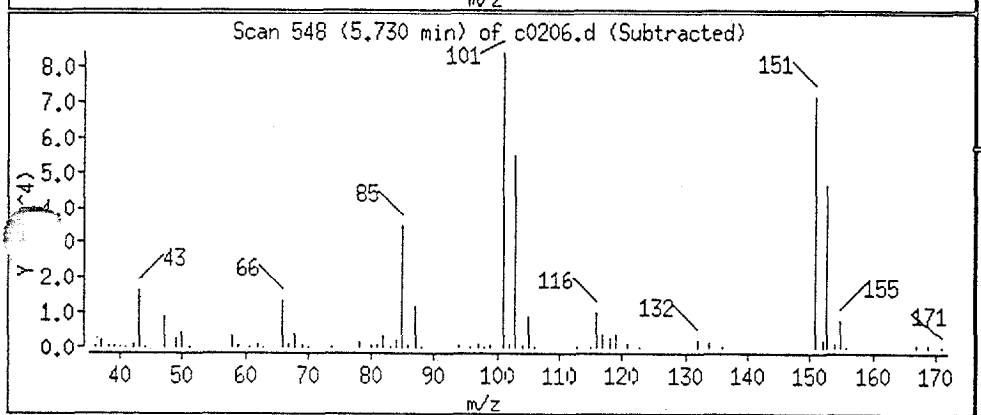
Column diameter : 0.53

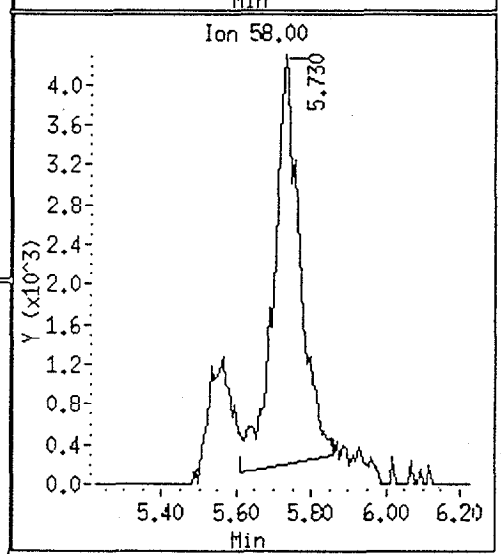
Volume Injected (uL) : 0.0

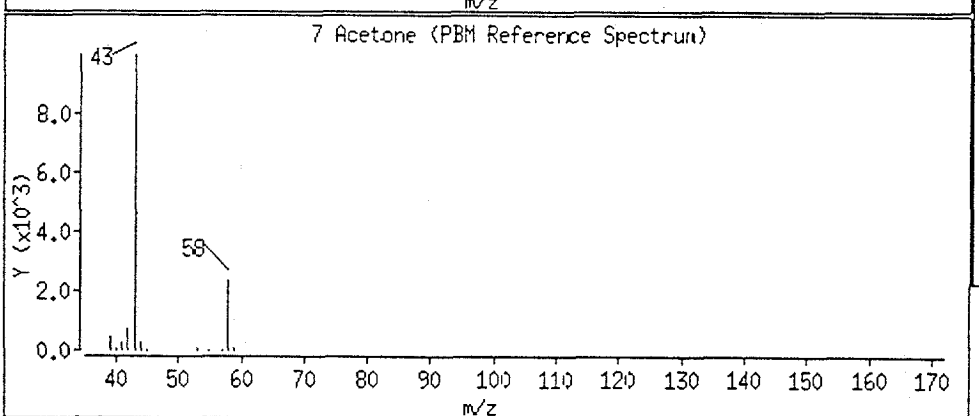
7 Acetone

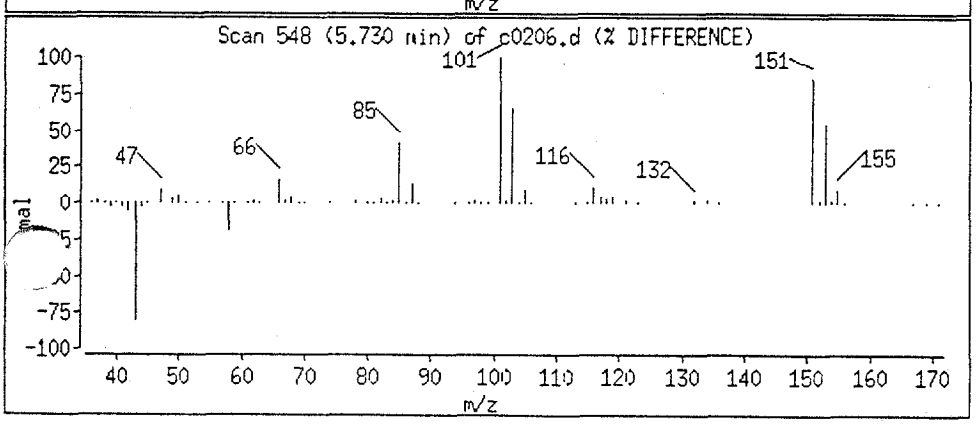












Data File: /chem/aux/msc.i/c111994a.b/c0206.d

Date : 19-NOV-94 21:56

Instrument : msc.i

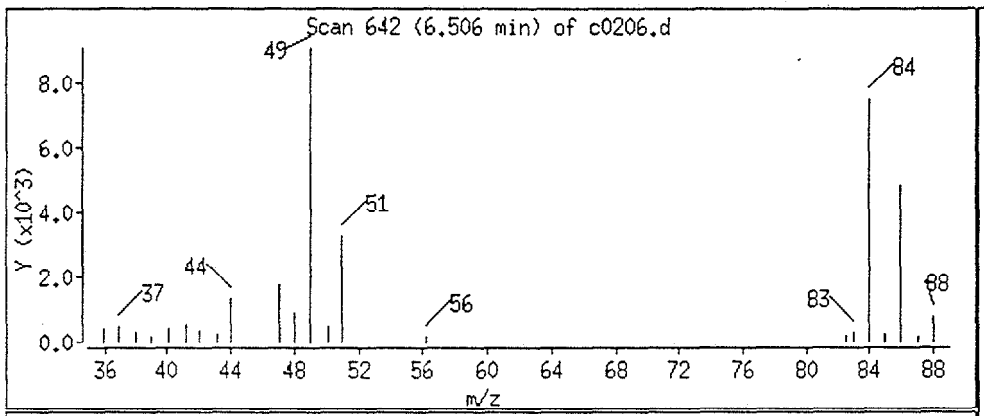
Sample ID : 15226n cljdws151

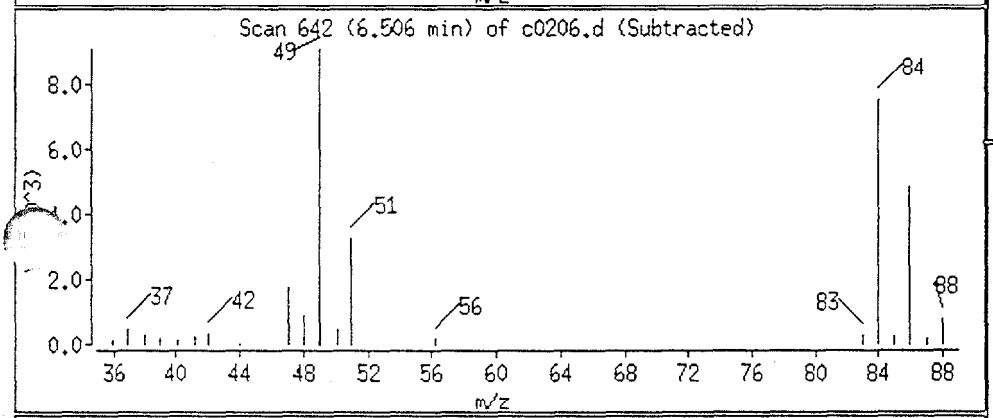
Column phase : J&W DB_624

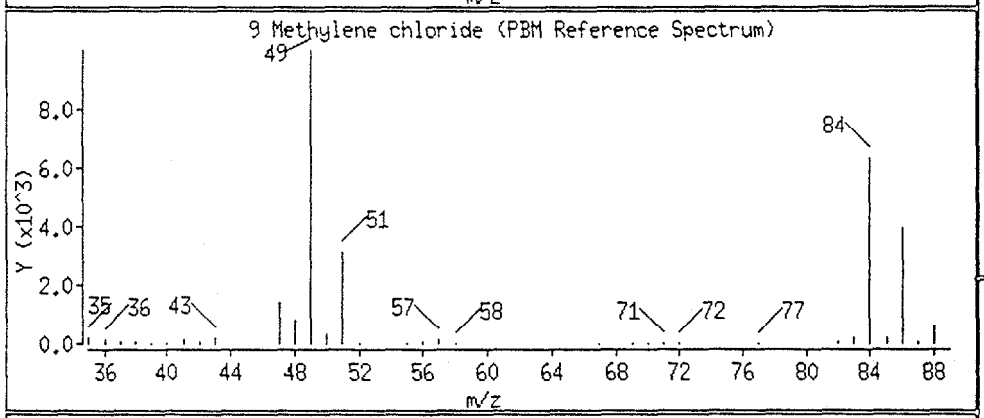
Column diameter : 0.53

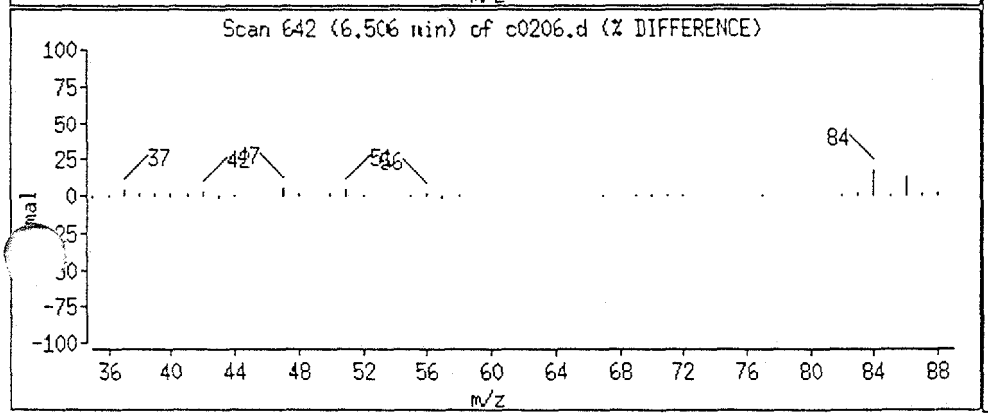
Volume Injected (uL) : 0.0

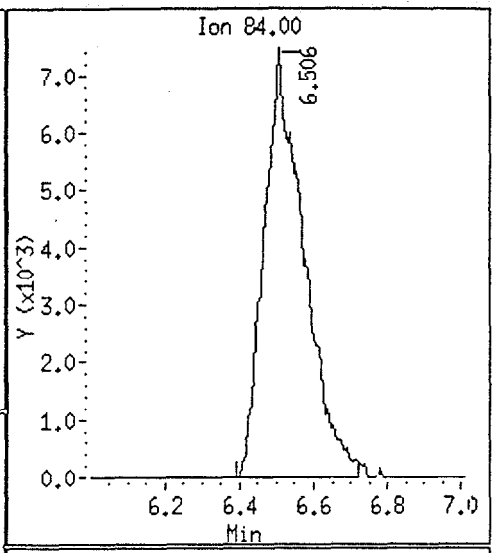
9 Methylene chloride

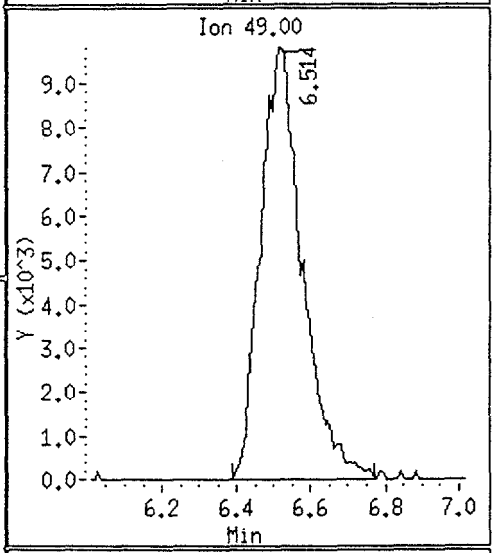


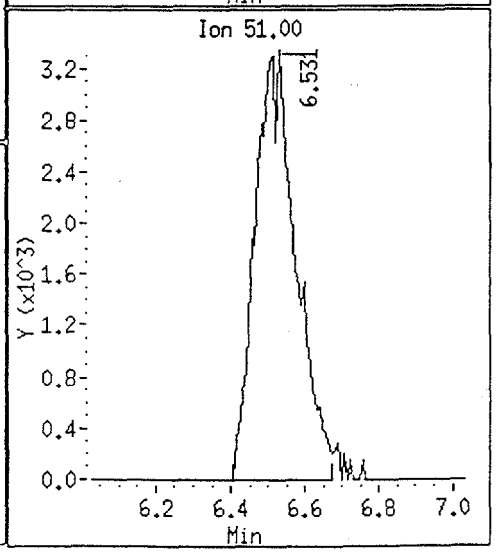












Data File: /chem/aux/msc.i/c111994a.b/c0206.d

Date : 19-NOV-94 21:56

Instrument : msc.i

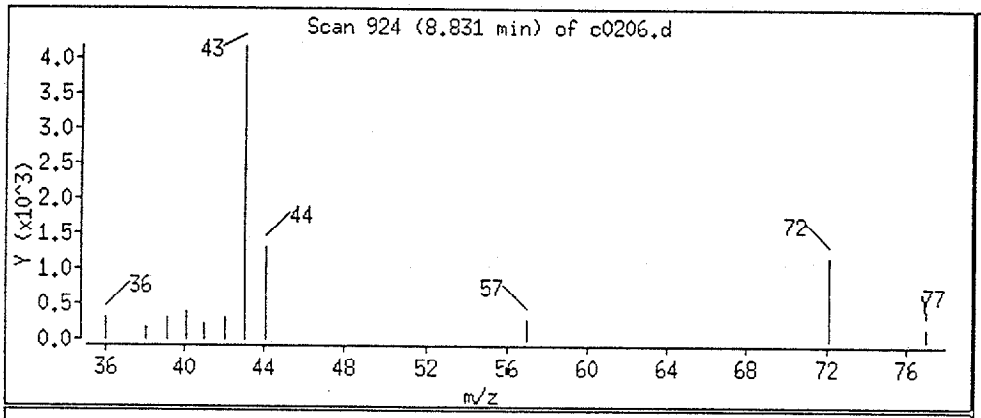
Sample ID : 15226n cljdws151

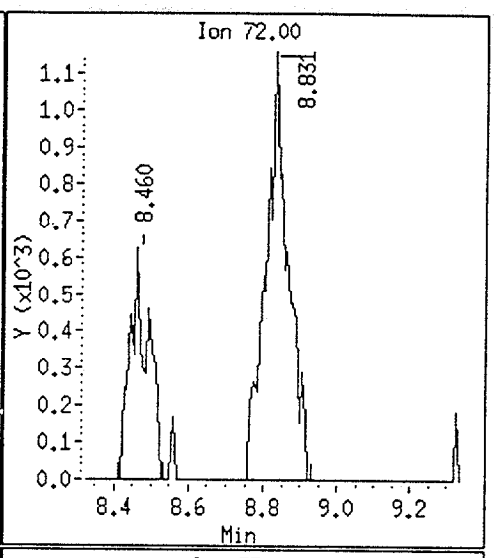
Column phase : J&W DB_624

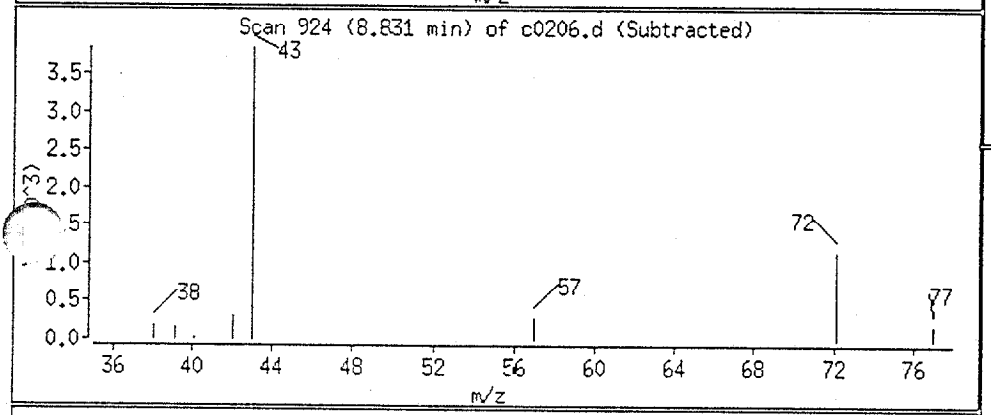
Column diameter : 0.53

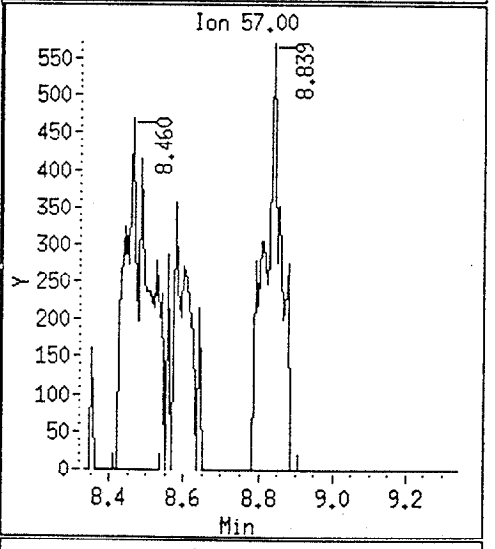
Volume Injected (uL) : 0.0

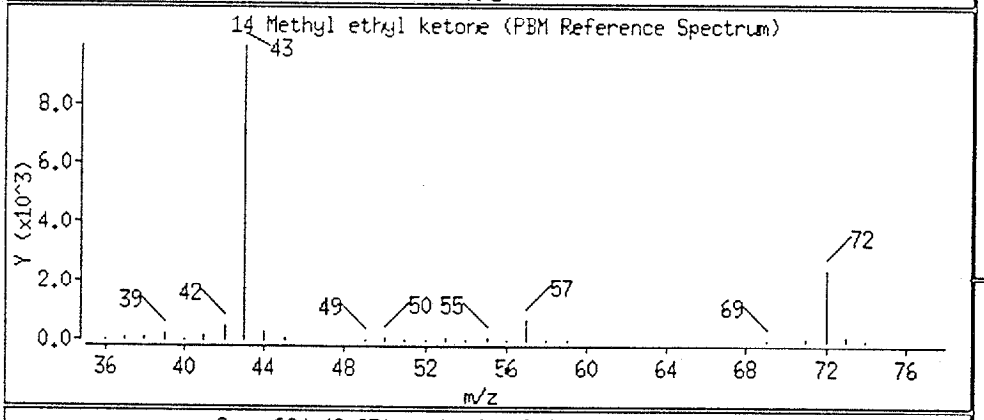
14 Methyl ethyl ketone

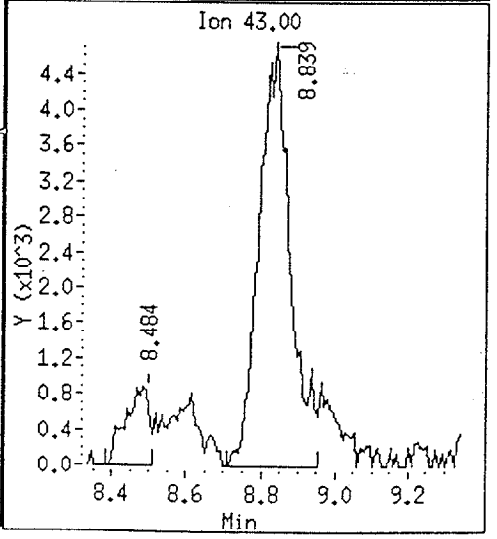


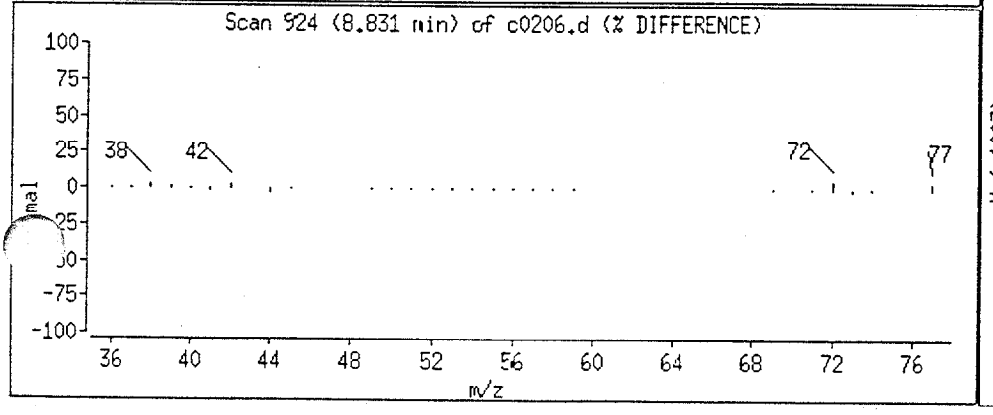












Data File: /chem/aux/msc.i/c111994a.b/c0206.d

Date : 19-NOV-94 21:56

Instrument : msc.i

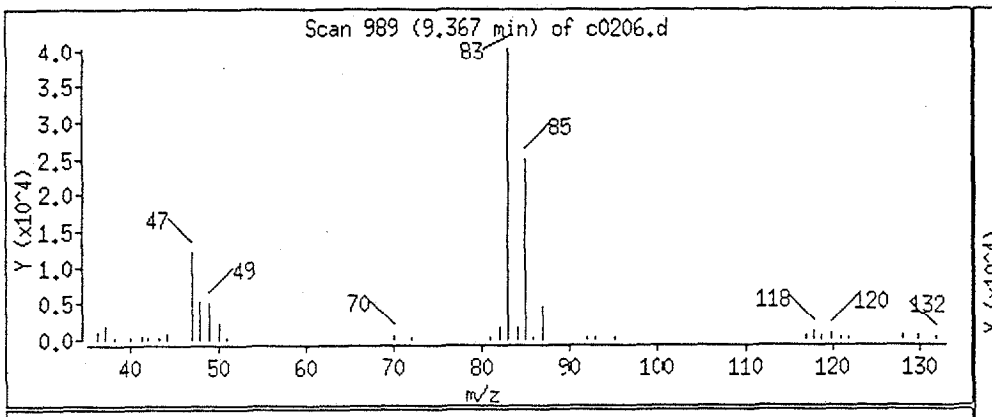
Sample ID : 15226n cljdws151

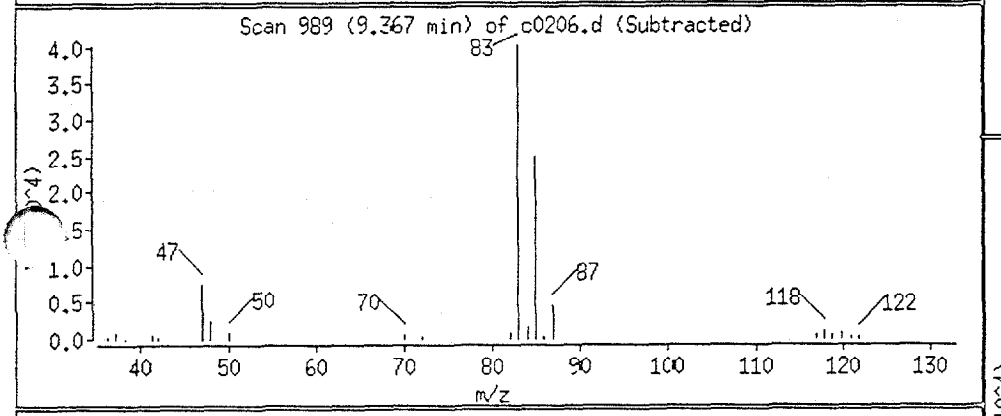
Column phase : J&W DB_624

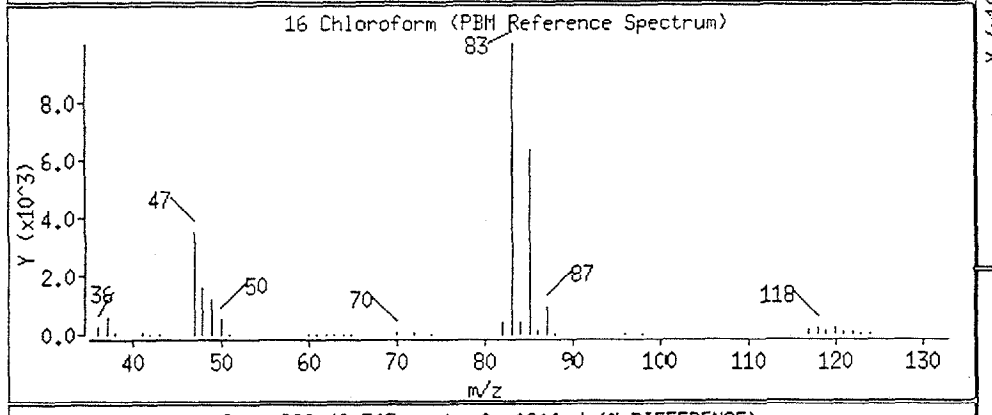
Column diameter : 0.53

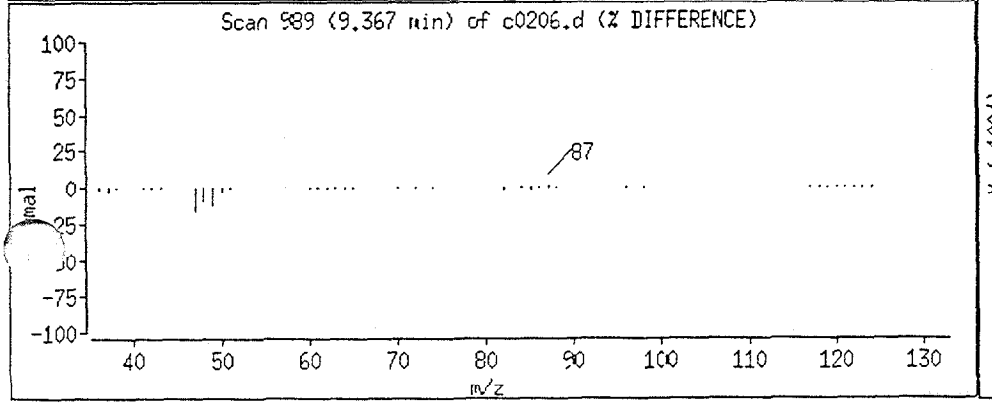
Volume Injected (uL) : 0.0

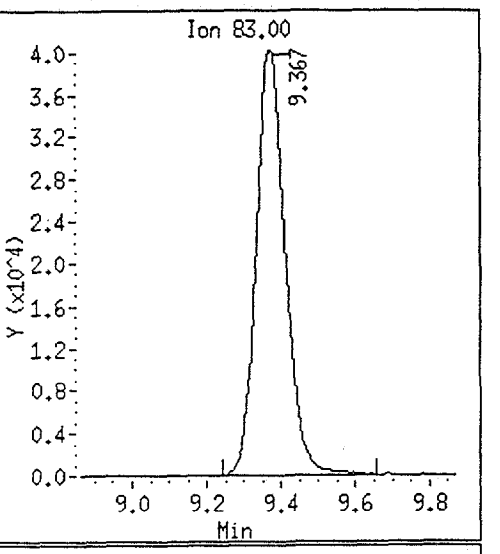
16 Chloroform

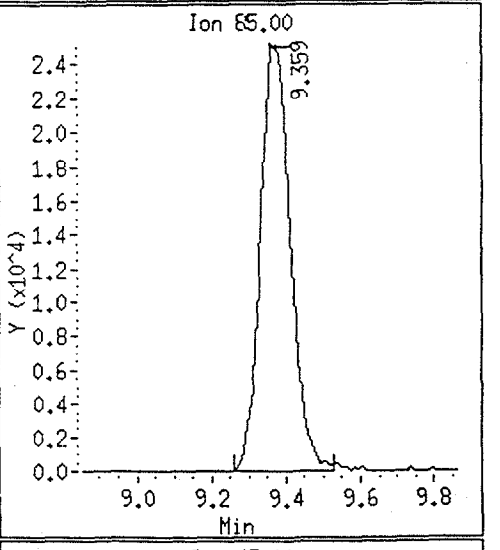


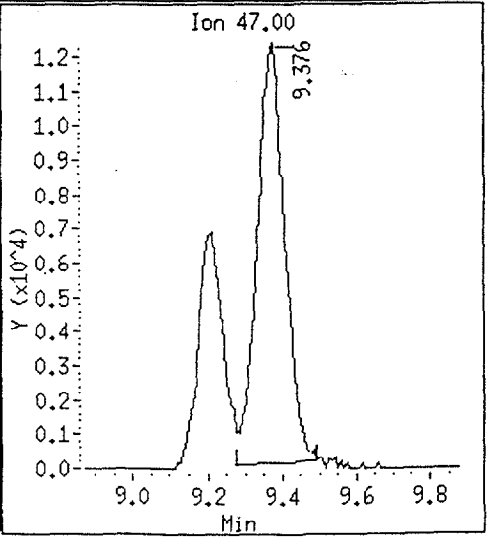












Data File: /chem/aux/msc.i/c111994a.b/c0206.d

Date : 19-NOV-94 21:56

Instrument : msc.i

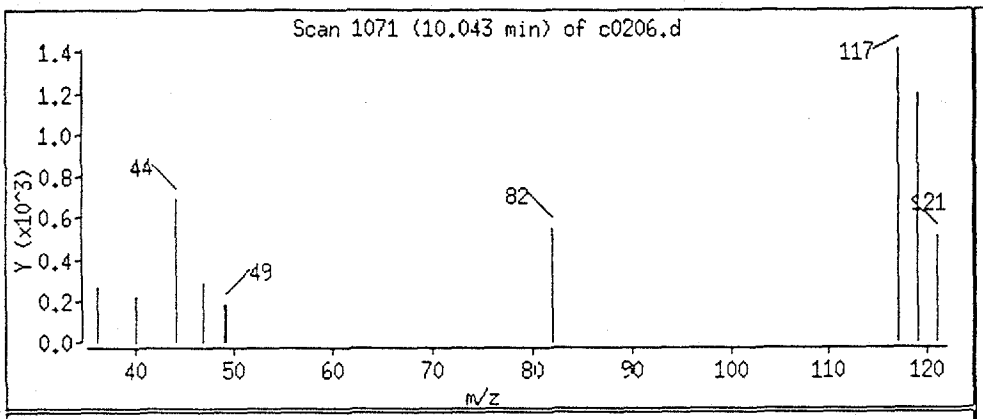
Sample ID : 15226n cljdws151

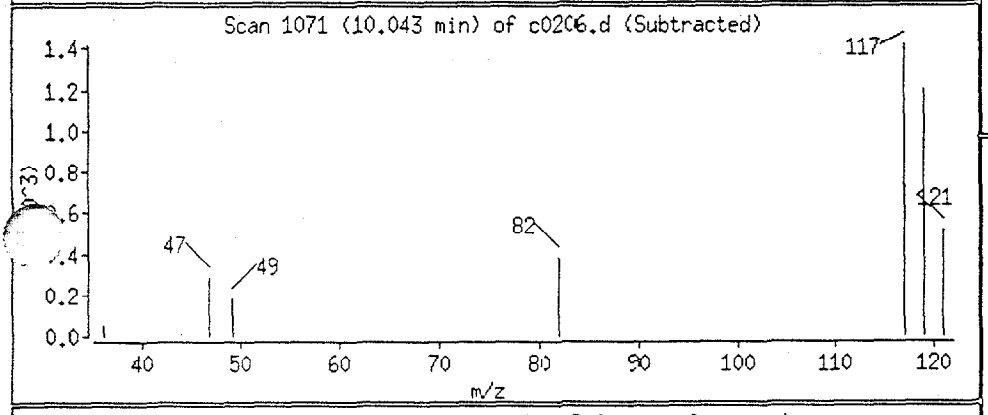
Column phase : J&W DB_624

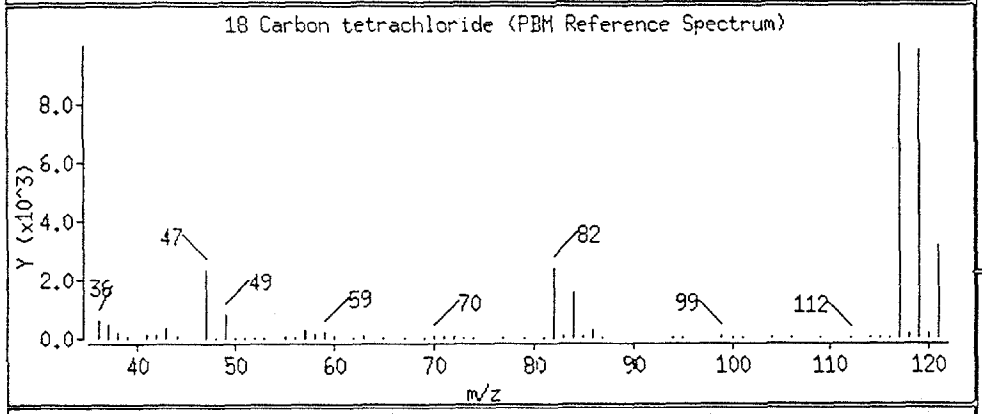
Column diameter : 0.53

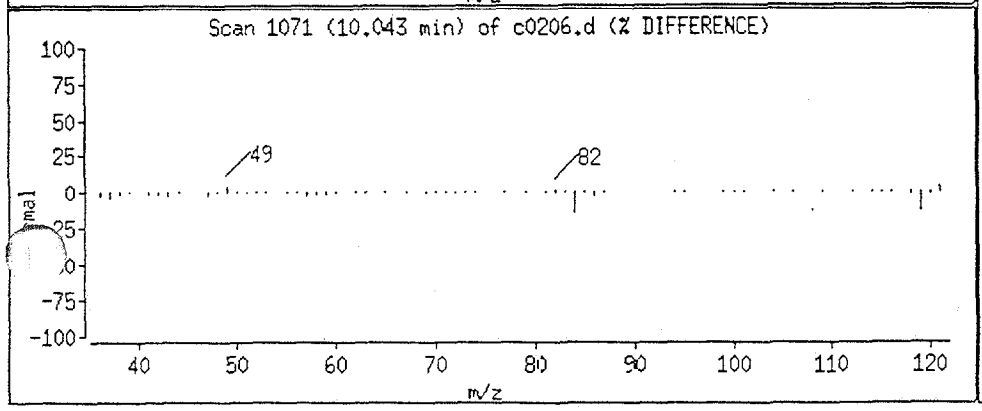
Volume Injected (uL) : 0.0

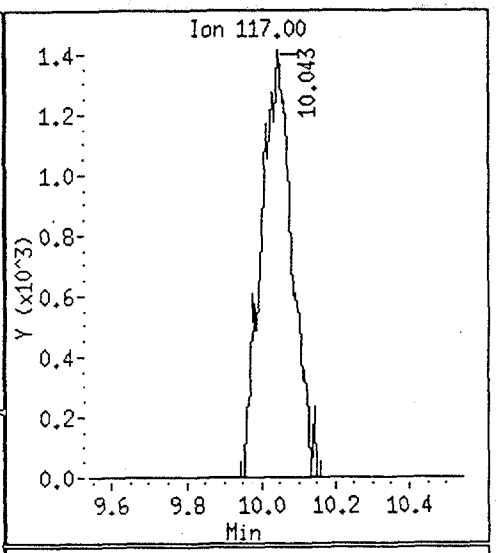
18 Carbon tetrachloride

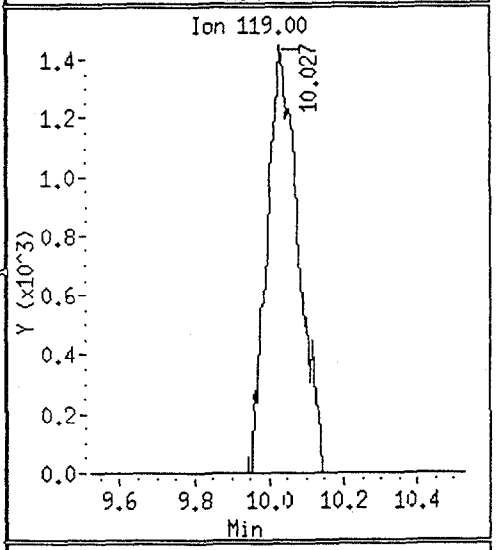


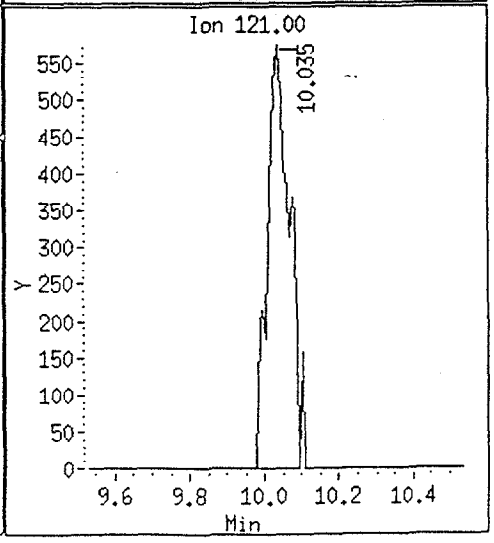












Data File: /chem/aux/msc.i/c111994a.b/c0206.d

Date : 19-NOV-94 21:56

Instrument : msc.i

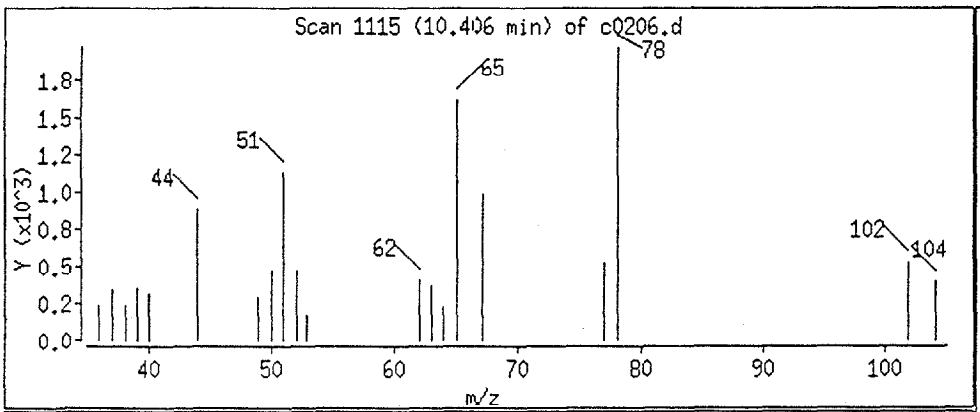
Sample ID : 15226n cljdws151

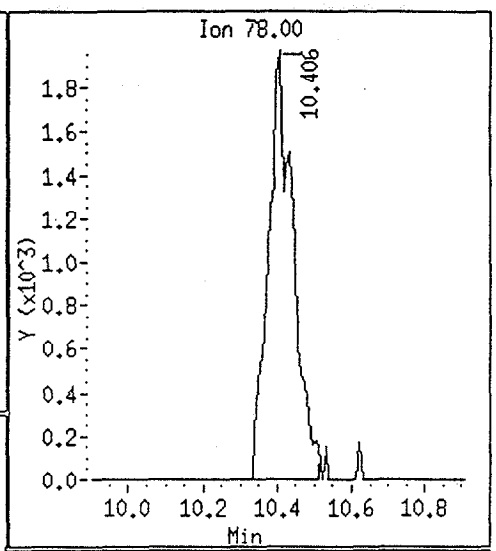
Column phase : J&W DB_624

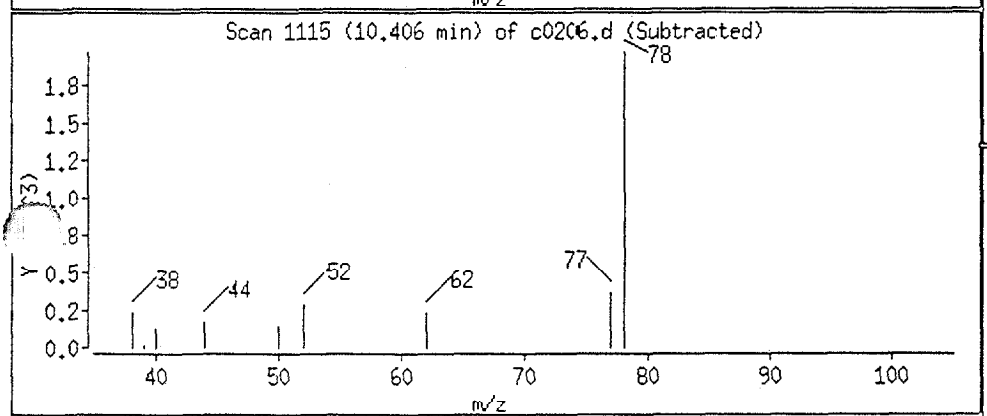
Column diameter : 0.53

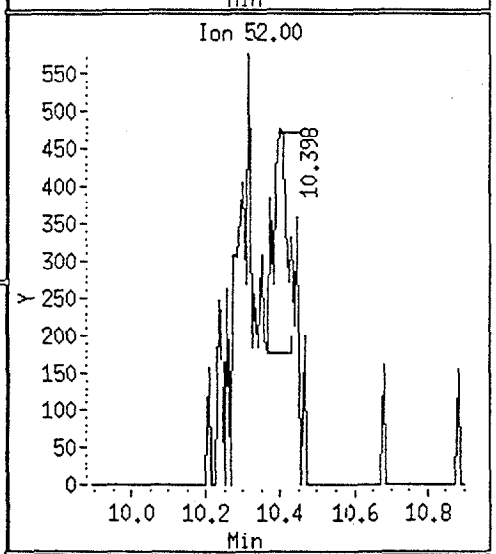
Volume Injected (uL) : 0.0

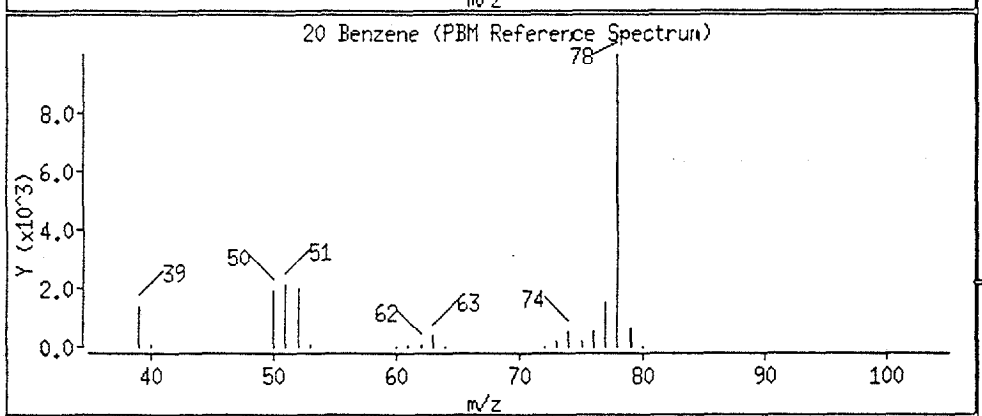
20 Benzene

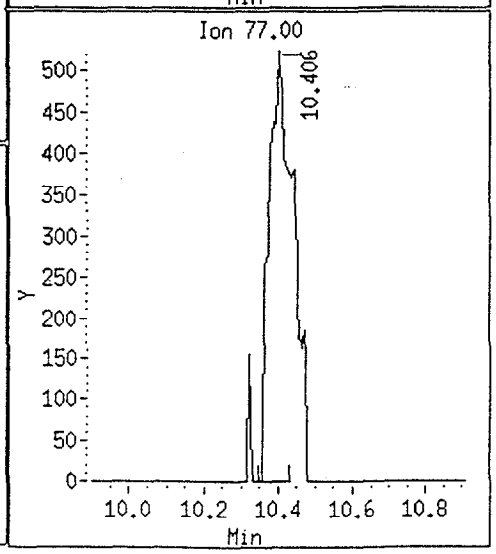


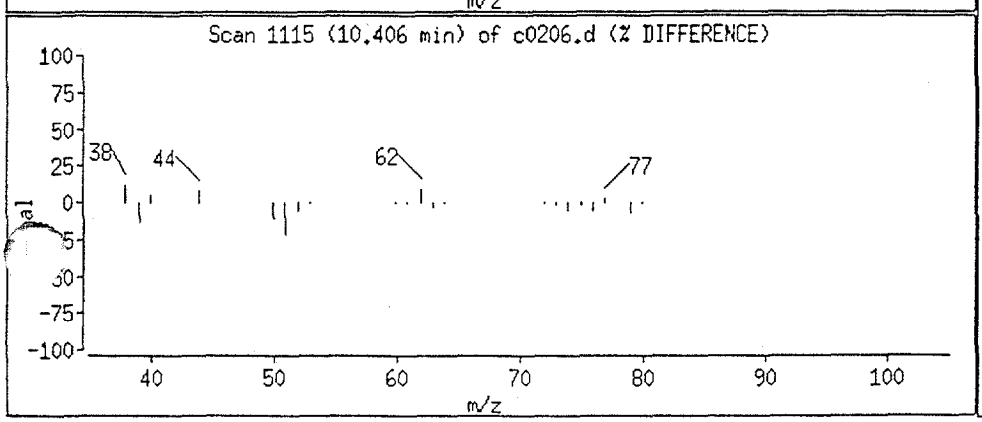












Data File: /chem/aux/msc.i/c111994a.b/c0206.d

Date : 19-NOV-94 21:56

Instrument : msc.i

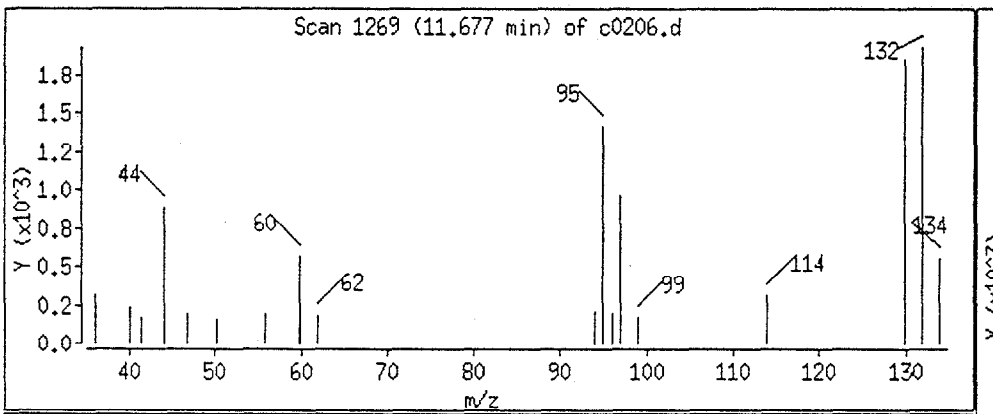
Sample ID : 15226n cljdws151

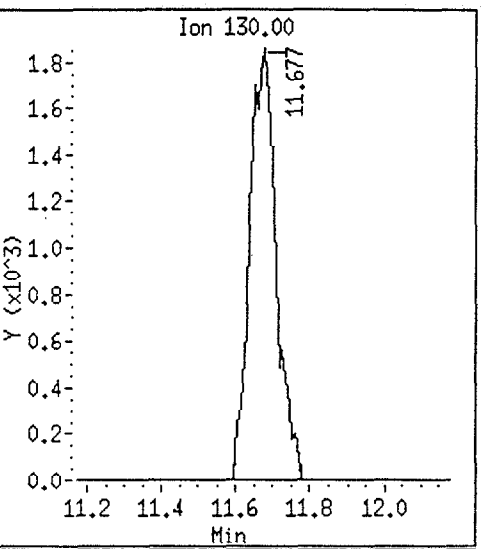
Column phase : J&W DB_624

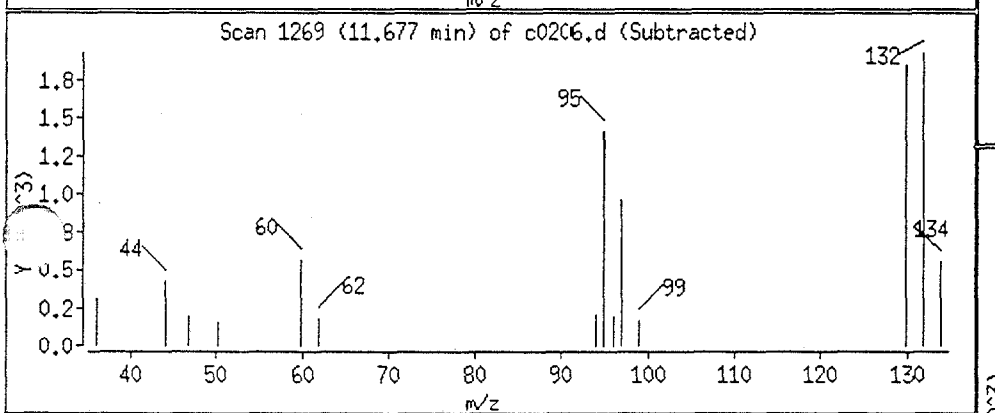
Column diameter : 0.53

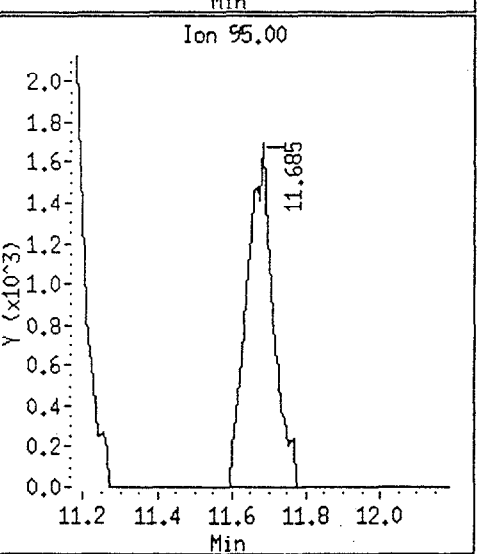
Volume Injected (uL) : 0.0

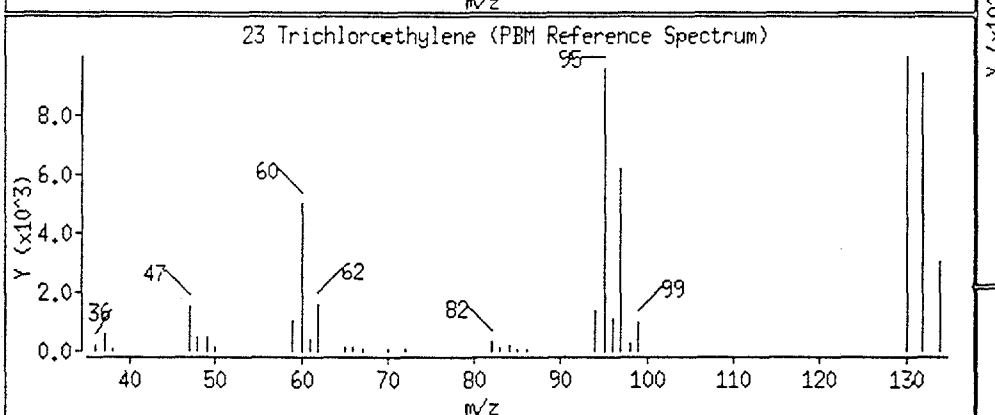
23 Trichloroethylene

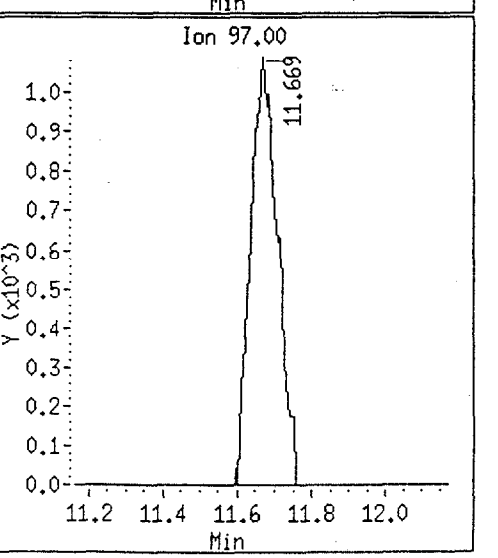


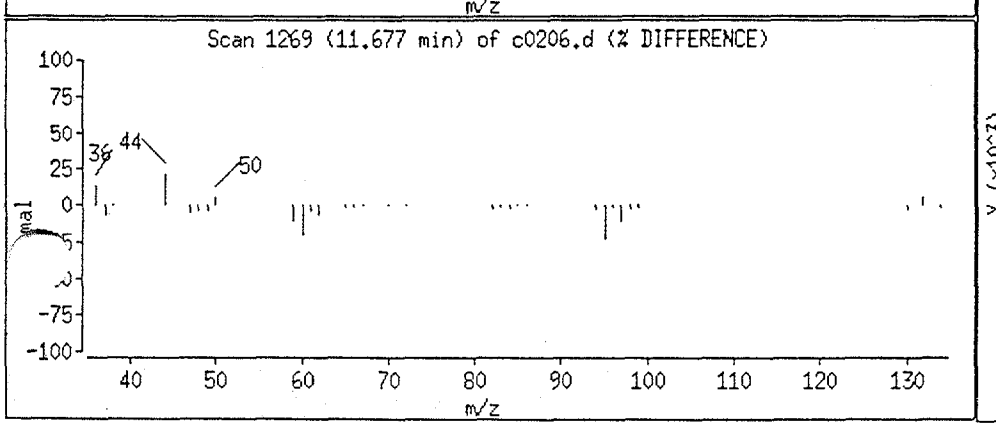












Data File: /chem/aux/msc.i/c111994a.b/c0206.d

Date : 19-NOV-94 21:56

Instrument : msc.i

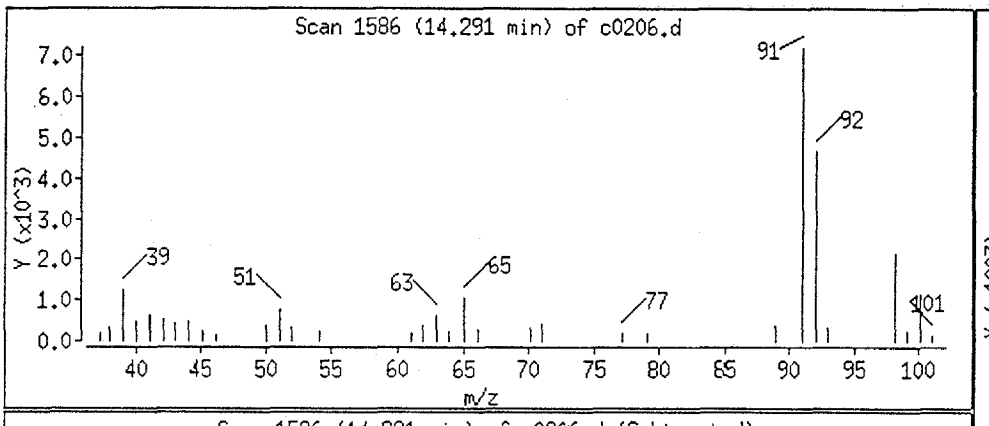
Sample ID : 15226n cljdws151

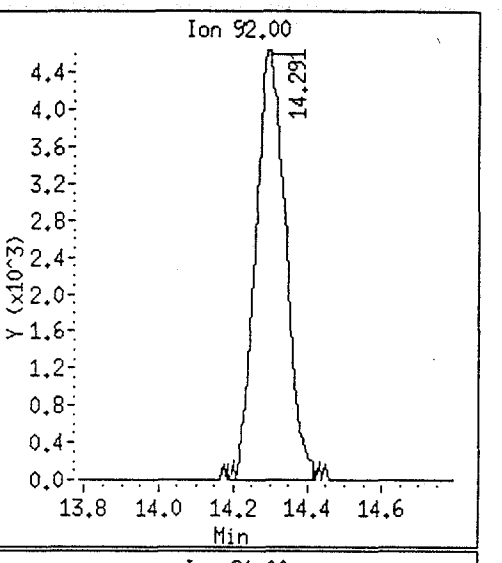
Column phase : J&W DB_624

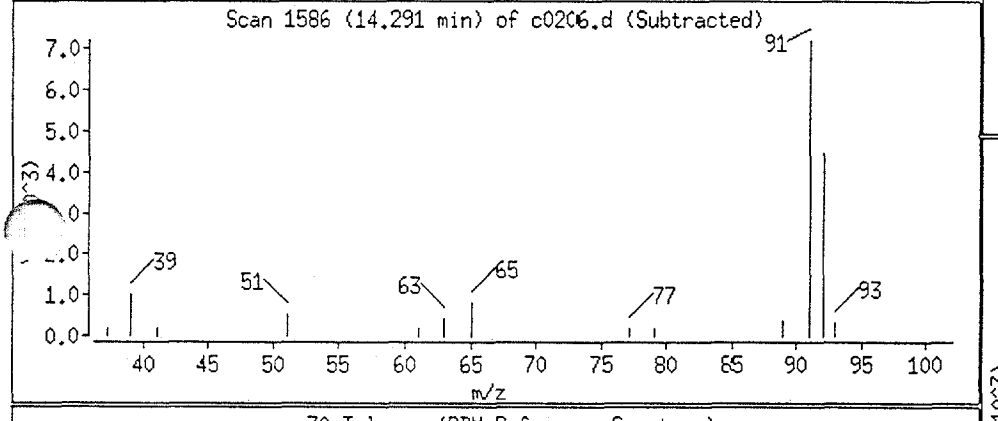
Column diameter : 0.53

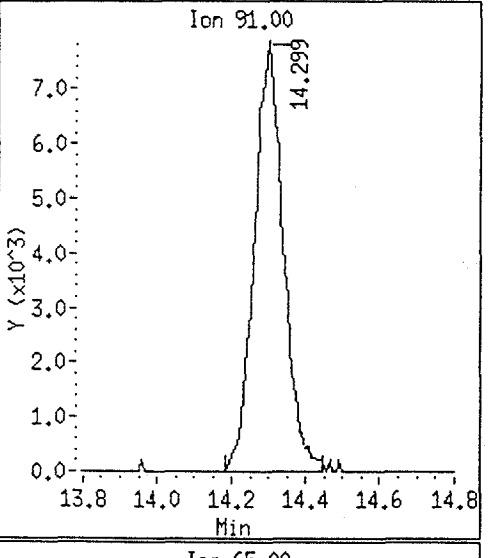
Volume Injected (uL) : 0.0

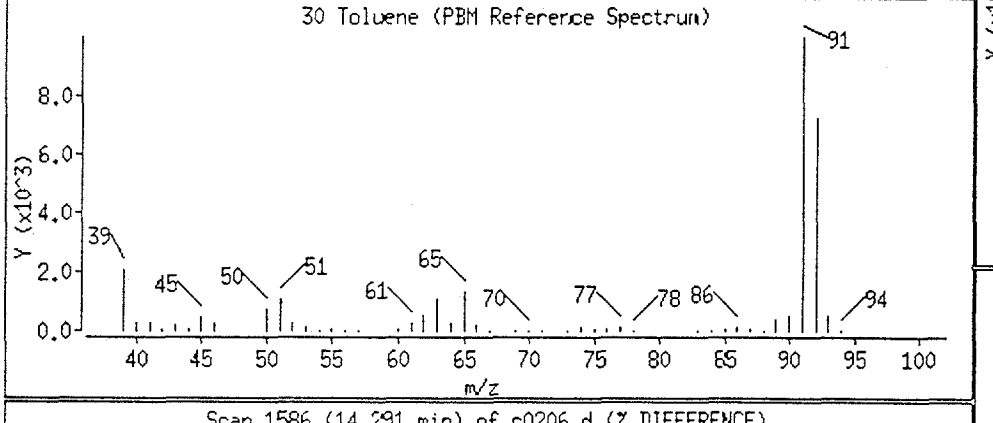
30 Toluene

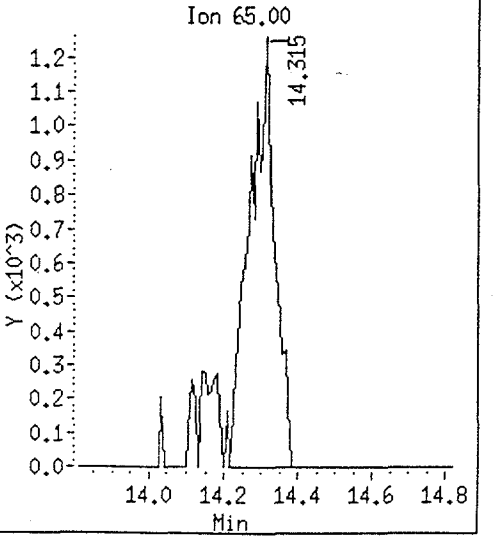


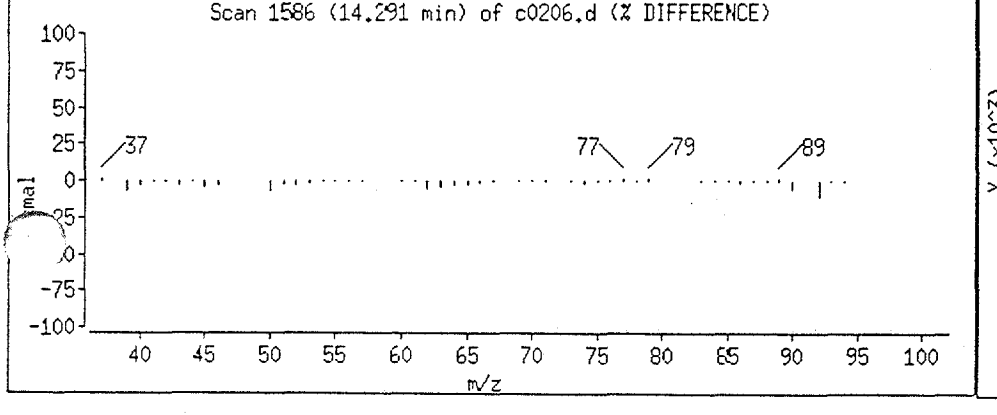












Data File: /chem/aux/msc.i/c111994a.b/c0206.d

Date : 19-NOV-94 21:56

Instrument : msc.i

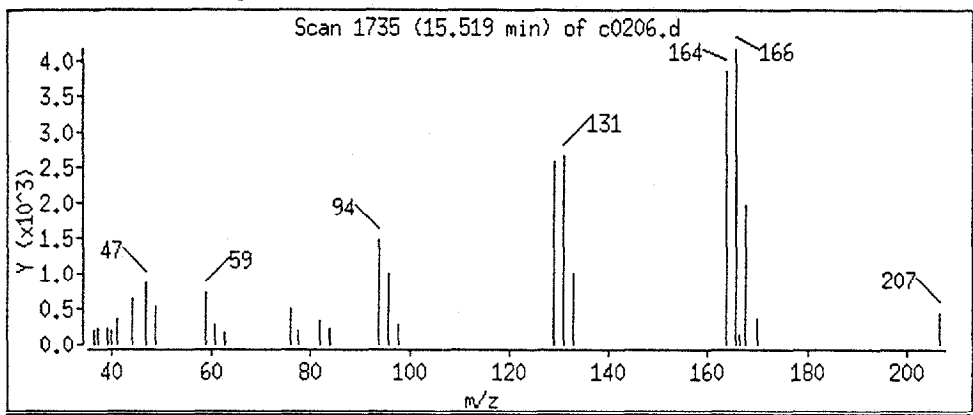
Sample ID : 15226n cljdws151

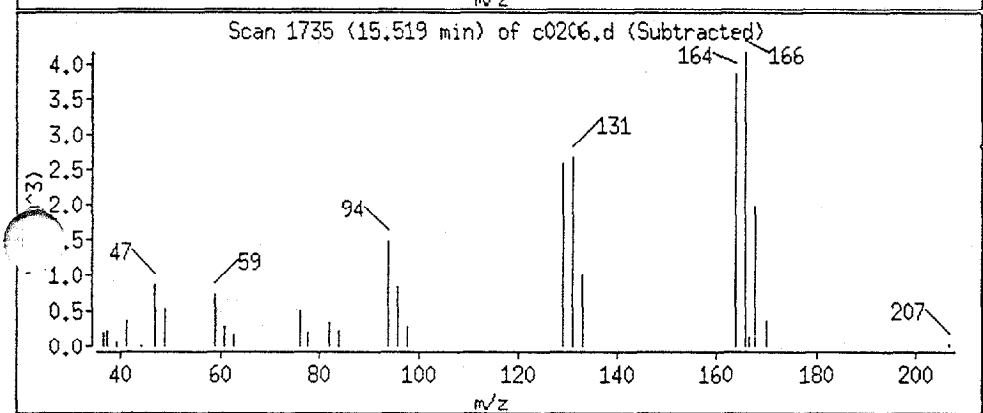
Column phase : J&W DB_624

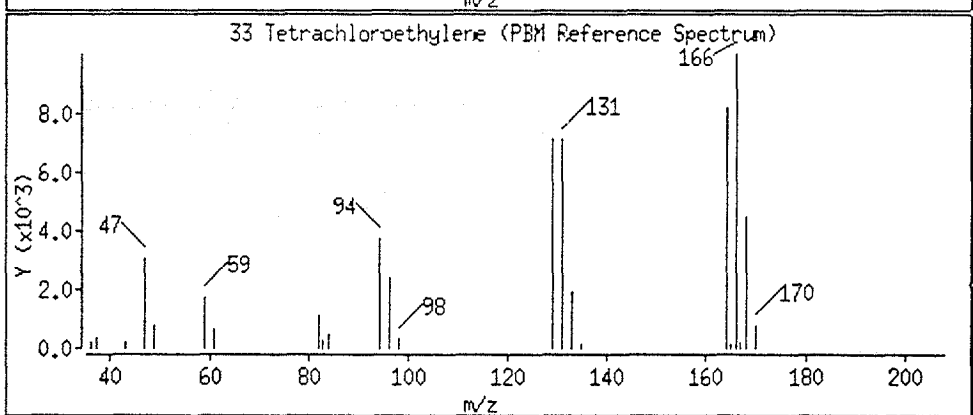
Column diameter : 0.53

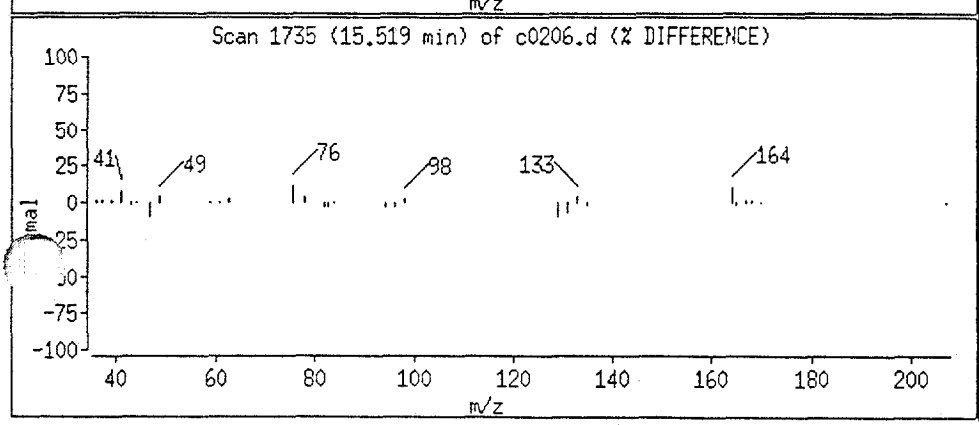
Volume Injected (uL) : 0.0

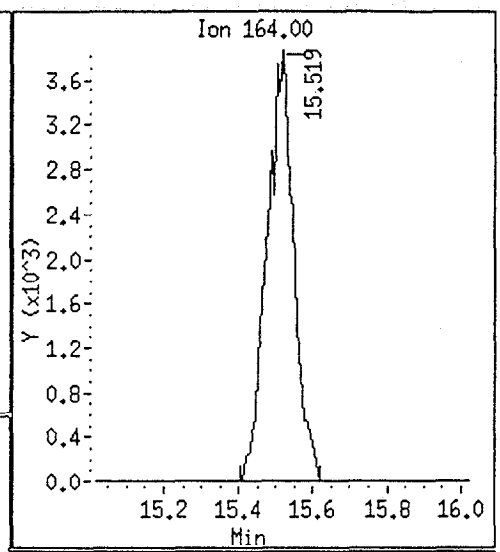
33 Tetrachloroethylene

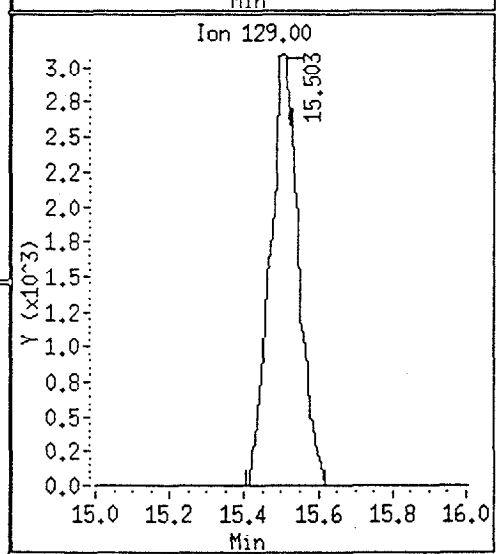


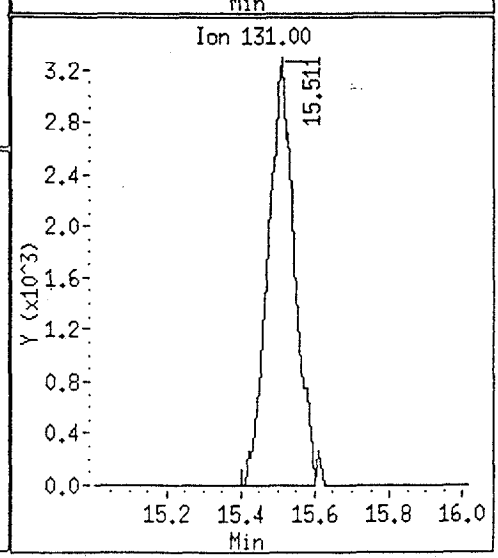












Data File: /chem/aux/msc.i/c111994a.b/c0206.d

Date : 19-NOV-94 21:56

Instrument : msc.i

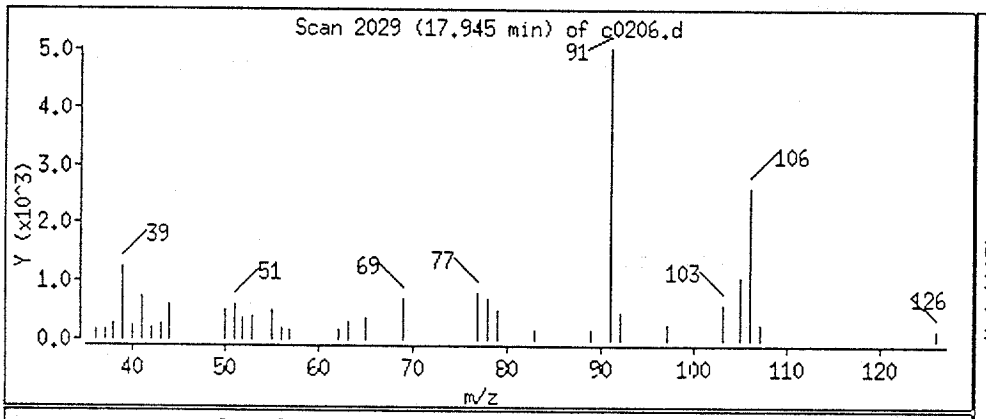
Sample ID : 15226n cljdws151

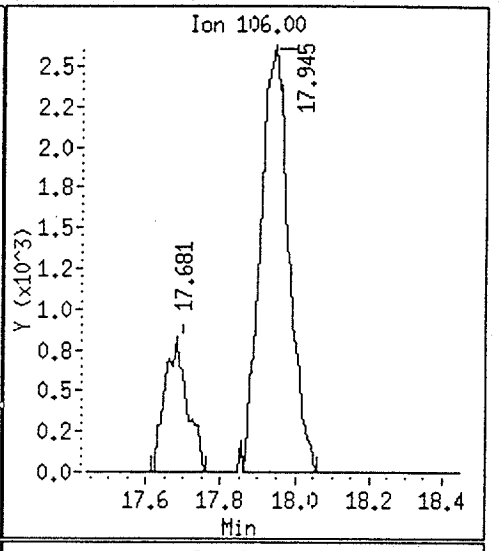
Column phase : J&W DB_624

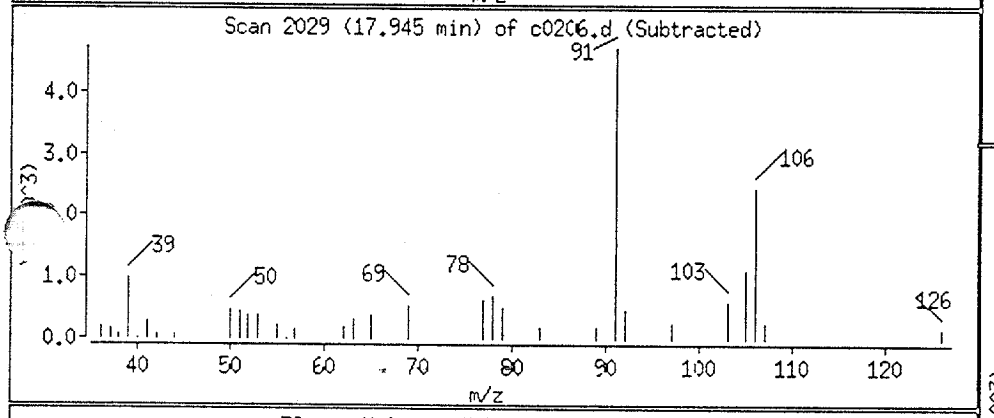
Column diameter : 0.53

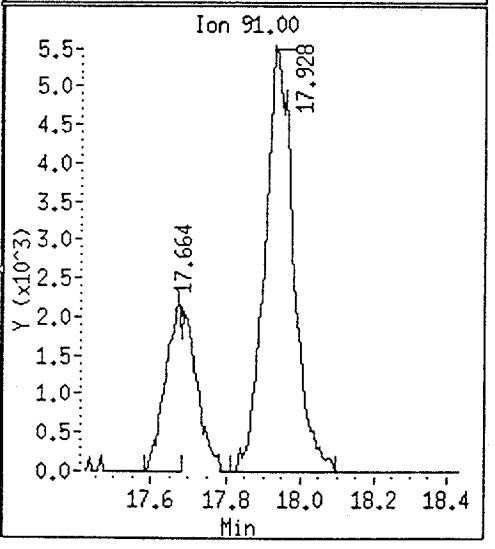
Volume Injected (uL) : 0.0

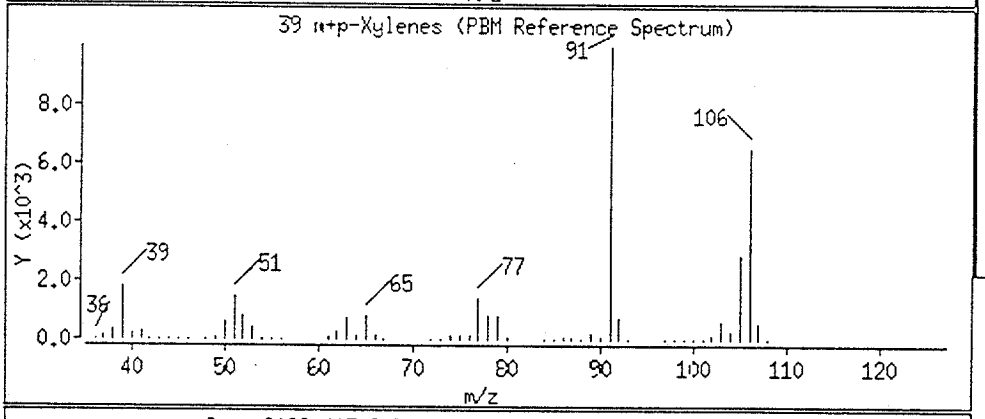
39 m+p-Xylenes

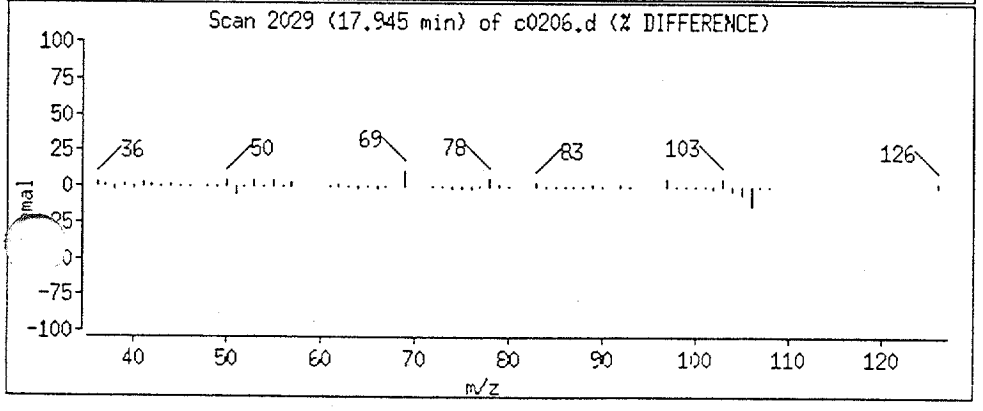












Data File: /chem/aux/msc.i/c111994a.b/c0206.d

Date : 19-NOV-94 21:56

Instrument : msc.i

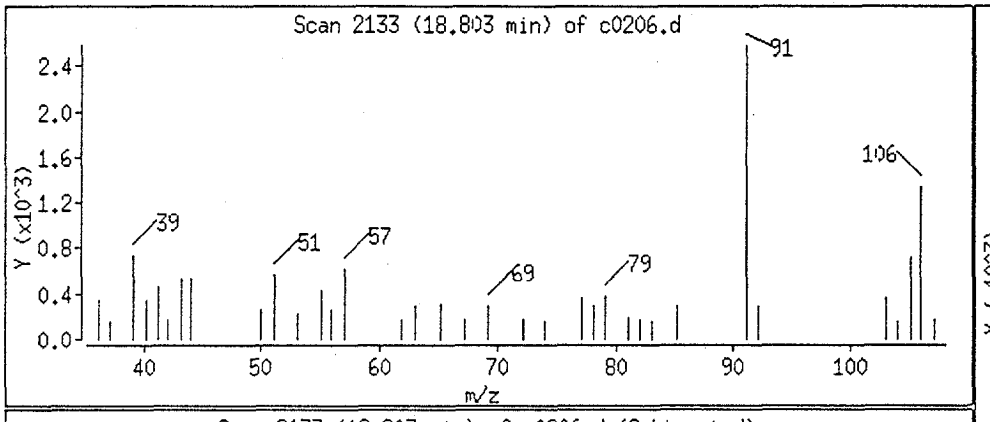
Sample ID : 15226n cljdws151

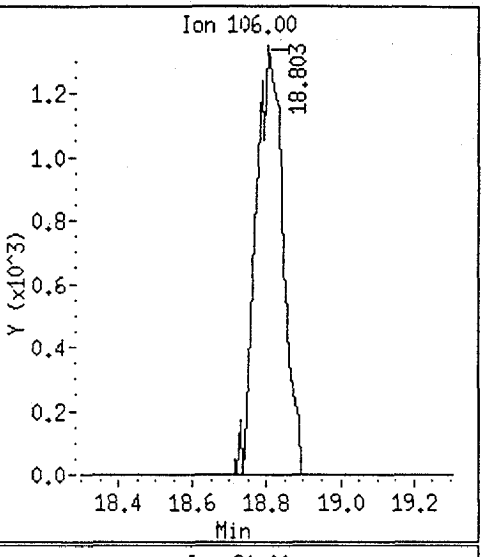
Column phase : J&W DB_624

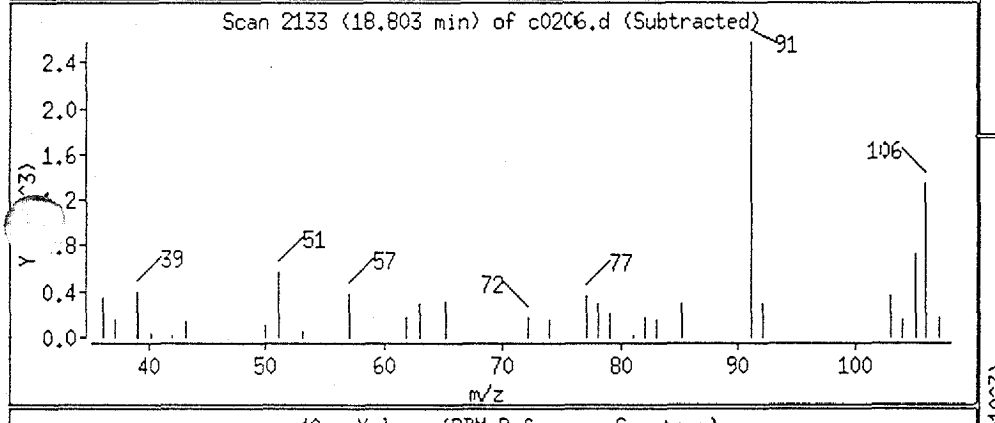
Column diameter : 0.53

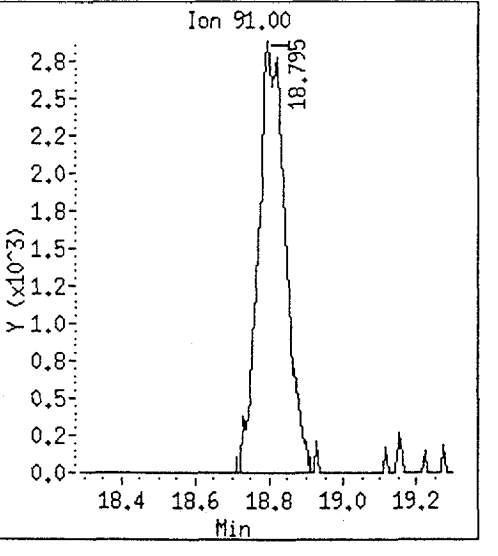
Volume Injected (uL) : 0.0

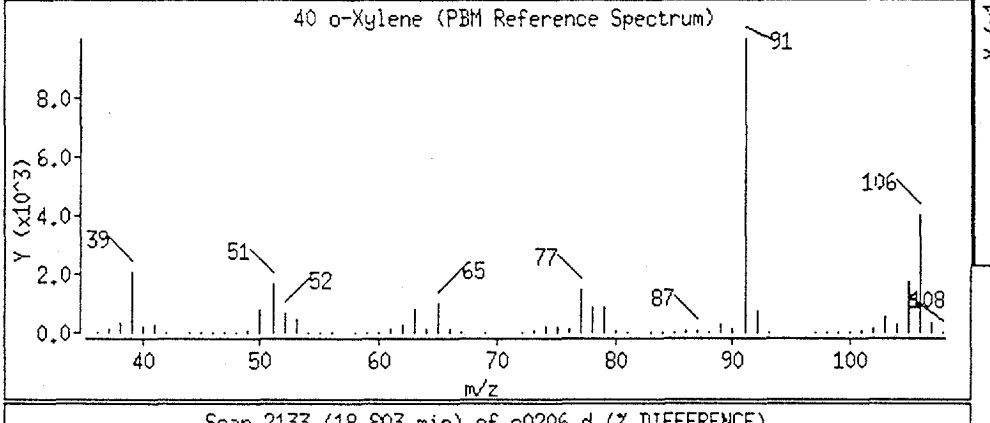
40 o-Xylene

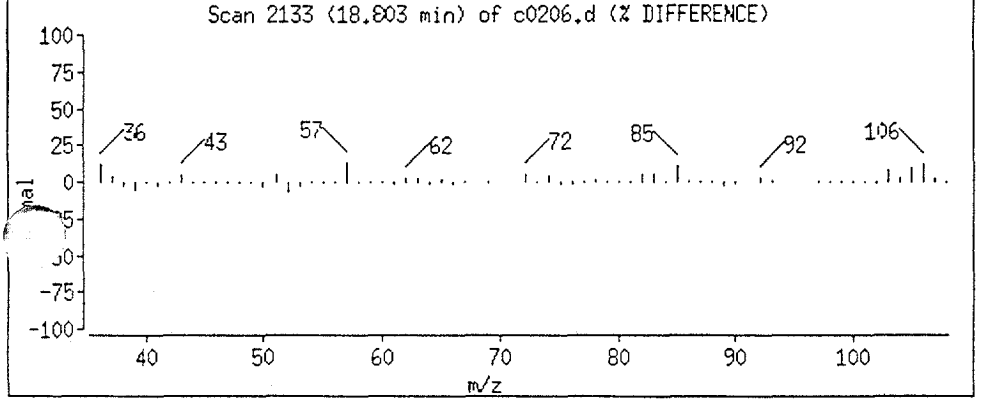












Data File: /chem/aux/msc.i/c111994a.b/c0206.d

Date : 19-NOV-94 21:56

Instrument : msc.i

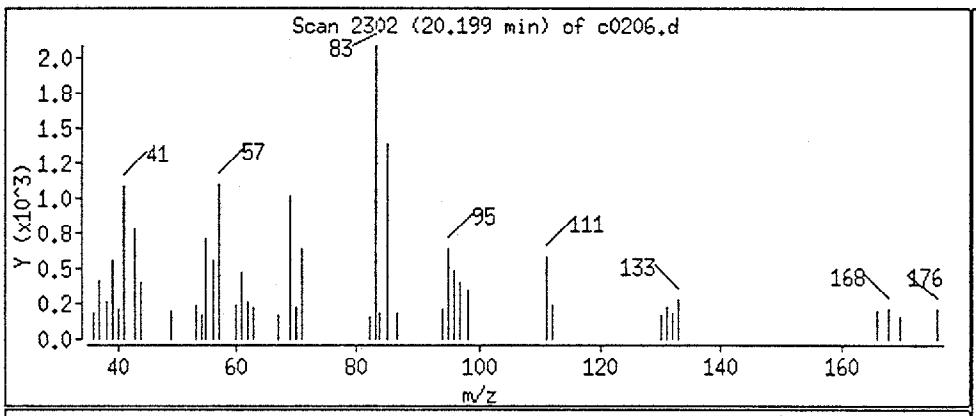
Sample ID : 15226n cljdws151

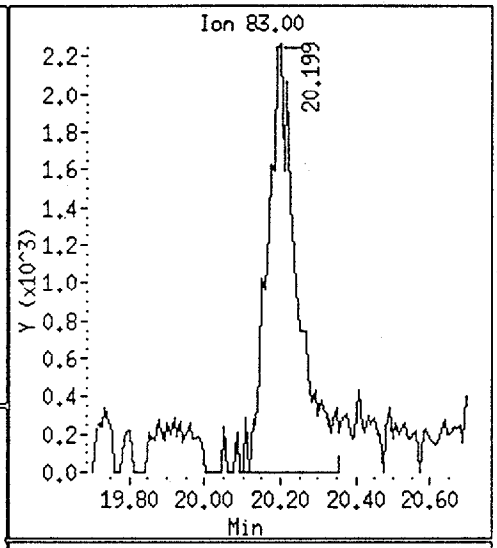
Column phase : J&W DB_624

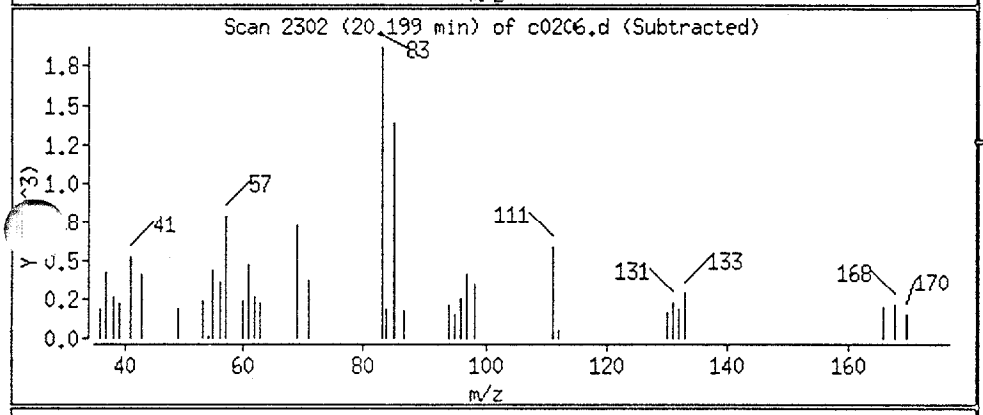
Column diameter : 0.53

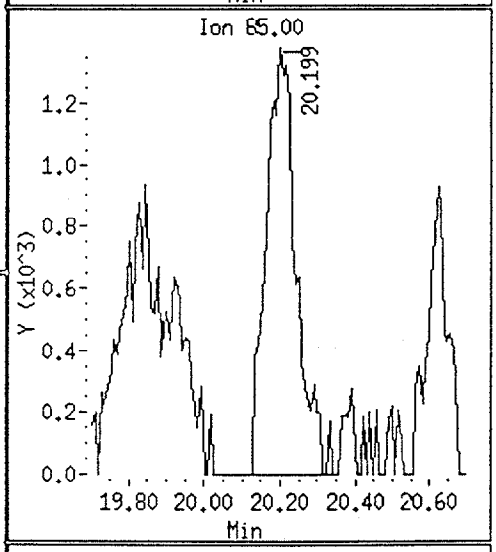
Volume Injected (uL) : 0.0

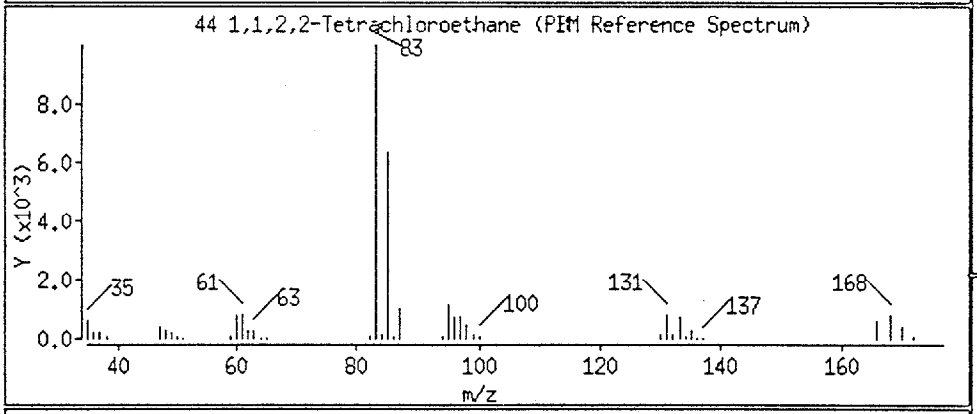
44 1,1,2,2-Tetrachloroethane

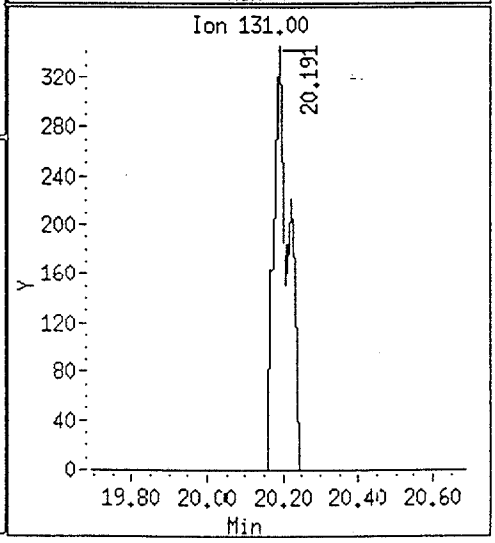


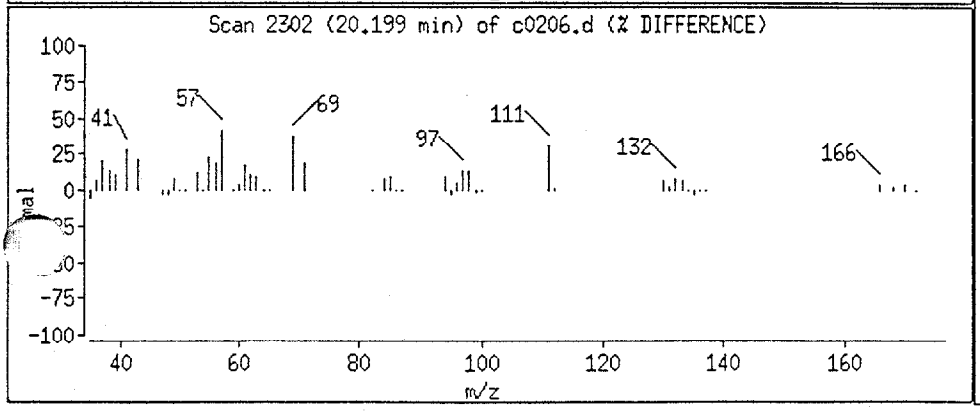












00085

ORGANIC LIQUID VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ANALYTICAL SERVICES CORP. Contract: NFESC

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJDWS075

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLK01	92	99	87		0
02	CLJDWS075	102	97	95		0
03	VSPK01	94	98	90		0
04	CLJDWS075MS	98	89	87		0
05	CLJDWS075MSD	99	90	84		0

	QC LIMITS
SMC1 (TOL) = Toluene-d8	(84-138)
SMC2 (BFB) = Bromofluorobenzene	(59-113)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring compound diluted out

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ANALYTICAL SERVICES CORP. Contract: NFESC

Lab Code: _____ Case No.: 15226N SAS No.: _____ SDG No.: CLJDWS~~102~~ 075

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLK01	95	103	86		0
02	VSPK01	90	96	84		0
~~03~~	~~FB01A/B~~	~~89~~	~~102~~	~~88~~		~~0~~
04	RB-01A/D	93	102	86		0
05	RB-01A/DMS	89	93	86		0
06	RB-01A/DMSD	90	99	88		0
07	CLJDWS102	90	99	82		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

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: 15224N SAS No.: N/A SDG No.: CLJDWS075

Level: (low/med) ____

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLK01	110	107	99		0
02	VSPK01	106	100	102		0
03	A01SS-49	120	84	100		0
04	A01SS-49MS	120	83	97		0
05	A01SS-49MSD	115	77	93		0
06	A01SS-50	103	89	100		0
07	A01SS-54	117	86	107		0
08	A05SS-56	108	101	108		0
09	A05SS-58	107	92	103		0
10	A05SS-59	107	87	101		0
11	A05SS-60	101	89	100		0
12	A05SS-63	106	99	109		0
13	A05SS-62	104	100	108		0
14	A01SS-51	107	89	87		0
15	A01SS-52	107	86	90		0
16	A01SS-53	108	83	89		0
17	A05SS-64	108	93	91		0
18	A01SS-86	105	88	92		0
19	A05SS-66	104	98	99		0
20	A05SS-85	110	102	100		0
21	CLJDWS151	135	70	91		0
22	A05SS-65	98	98	103		0
23	A02SS-67	116	77	98		0
24	A02SS-68	116	86	100		0

	QC LIMITS
SMC1 (TOL) = Toluene-d8	(84-138)
SMC2 (BFB) = Bromofluorobenzene	(59-113)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring compound diluted out

00088

ORGANIC LIQUID VOLATILE 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.: CLJDWS075

Matrix Spike - EPA Sample No.: CLJDWS075

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	2400000	0	2600000	110	30-130
Trichloroethene	2400000	0	2500000	104	30-130
Benzene	2400000	0	2400000	102	30-130
Toluene	2400000	130000	2400000	98	30-130
Chlorobenzene	2400000	0	2400000	102	30-130

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	2400000	2600000	108	2	20	30-130
Trichloroethene	2400000	2400000	100	6	20	30-130
Benzene	2400000	2300000	96	6	20	30-130
Toluene	2400000	2400000	95	2	20	30-130
Chlorobenzene	2400000	2400000	100	2	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 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

3A
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ANALYTICAL SERVICES CORP. Contract: NFESC

Lab Code: _____ Case No.: 15226N SAS No.: _____ SDG No.: CLJDWS~~102~~ 075 M

Matrix Spike - EPA Sample No.: RB-01A/D

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50	0	51	102	61-145
Trichloroethene	50	0	50	100	71-120
Benzene	50	0	51	102	76-127
Toluene	50	0	45	90	76-125
Chlorobenzene	50	0	49	98	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50	51	102	0	14	61-145
Trichloroethene	50	50	100	0	14	71-120
Benzene	50	50	100	2	11	76-127
Toluene	50	46	92	2	13	76-125
Chlorobenzene	50	51	102	4	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: _____

3B
SOIL 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.: CLJDW5075

Matrix Spike - EPA Sample No.: A01SS-49 Level: (low/med) ____

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	46	0	49	107	59-172
Trichloroethene	46	1	44	93	62-137
Benzene	46	0	46	100	66-142
Toluene	46	2	56	117	59-139
Chlorobenzene	46	0	42	91	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	51	57	112	6	22	59-172
Trichloroethene	51	48	92	.4	24	62-137
Benzene	51	51	100	1	21	66-142
Toluene	51	57	108	7	21	59-139
Chlorobenzene	51	47	92	2	21	60-133

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: _____

30
ORGANIC LIQUID VOLATILE BLANK SPIKE RECOVERY

Lab Name: ANALYTICAL SERVICES CORP. Contract: NFESC

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJDWS075

Matrix Spike - EPA Sample No.: VSPK01

COMPOUND	SPIKE ADDED (ug/Kg)	BLANK CONCENTRATION (ug/Kg)	BS CONCENTRATION (ug/Kg)	BS % REC #	QC LIMITS REC.
1,1-Dichloroethene	2500	0	2700	106	30-130
Trichloroethene	2500	0	2600	103	30-130
Benzene	2500	0	2600	103	30-130
Toluene	2500	0	2400	95	30-130
Chlorobenzene	2500	0	2600	102	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 5 outside limits

COMMENTS: _____

3A
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: ANALYTICAL SERVICES CORP. Contract: NFESC

Lab Code: _____ Case No.: 15226N SAS No.: _____ SDG No.: CLJDWS102

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-Dichloroethene	50	0	52	104	61-145
Trichloroethene	50	0	51	102	71-120
Benzene	50	0	50	100	76-127
Toluene	50	0	47	94	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: _____

3B
SOIL VOLATILE BLANK SPIKE RECOVERY

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CWJDW5075

Matrix Spike - EPA Sample No.: VSPK01

COMPOUND	SPIKE ADDED (ug/Kg)	BLANK CONCENTRATION (ug/Kg)	BS CONCENTRATION (ug/Kg)	BS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50	0	54	108	59-172
Trichloroethene	50	0	53	106	62-137
Benzene	50	0	50	100	66-142
Toluene	50	0	53	106	59-139
Chlorobenzene	50	0	52	104	60-133

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: NFESC

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJDWS075

Lab File ID: C0196 Lab Sample ID: N4V4035V

Date Analyzed: 11/19/94 Time Analyzed: 16:53

GC Column: DB-624 ID: .53 (mm) Heated Purge: (Y/N) N

Instrument ID: MSC

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	CLJDWS075	JN4743V	C0197	17:25
02	CLJDWS075MSD	JN4743VR	C0200	19:03
03	VSPK01	N4V4035VS	C0198	17:58
04	CLJDWS075MS	JN4743VS	C0199	18:31

COMMENTS:

00095

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NFESC

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJDWS~~102~~ 075

Lab File ID: C0208 Lab Sample ID: N1V4036V

Date Analyzed: 11/19/94 Time Analyzed: 23:02

GC Column: DB-624 ID: .53 (mm) Heated Purge: (Y/N) N

Instrument ID: MSC.C

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
~~01~~	~~FB01A/B~~	~~JN5026V~~	~~C0210~~	~~00:08~~
02	RB-01A/D	JN5027V	C0211	00:40
03	CLJDWS102	JN4741V	C0214	02:18
04	RB-01A/DMSD	JN5027VR	C0213	01:45
05	VSPK01	N1V4036VS	C0209	23:35
06	RB-01A/DMS	JN5027VS	C0212	01:13

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NFESC

Lab Code: N/A Case No.: 15226N SAS No.: N/A SDG No.: CLJDWS075

Lab File ID: C0151 Lab Sample ID: N2V4030V

Date Analyzed: 11/17/94 Time Analyzed: 15:11

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	A01SS-49	JN4617V	C0153	16:22
~~02~~	~~A01SS-50~~	~~JN4618V~~	~~C0156~~	~~18:05~~
~~03~~	~~A01SS-54~~	~~JN4622V~~	~~C0160~~	~~20:24~~
~~04~~	~~A05SS-56~~	~~JN4623V~~	~~C0161~~	~~20:58~~
~~05~~	~~A05SS-58~~	~~JN4624V~~	~~C0162~~	~~21:33~~
~~06~~	~~A05SS-59~~	~~JN4625V~~	~~C0163~~	~~22:08~~
~~07~~	~~A05SS-60~~	~~JN4626V~~	~~C0164~~	~~22:43~~
~~08~~	~~A05SS-63~~	~~JN4627V~~	~~C0165~~	~~23:17~~
~~09~~	~~A05SS-62~~	~~JN4631V~~	~~C0169~~	~~01:36~~
~~10~~	~~A01SS-51~~	~~JN4619V~~	~~C0175~~	~~12:50~~
~~11~~	~~A01SS-52~~	~~JN4620V~~	~~C0176~~	~~13:25~~
12	~~A01SS-53~~	~~JN4621V~~	~~C0177~~	~~13:59~~
~~13~~	~~A05SS-64~~	~~JN4628V~~	~~C0180~~	~~16:06~~
~~14~~	~~A01SS-86~~	~~JN4630V~~	~~C0182~~	~~17:15~~
~~15~~	~~A05SS-66~~	~~JN4632V~~	~~C0187~~	~~20:08~~
~~16~~	~~A05SS-85~~	~~JN4633V~~	~~C0188~~	~~20:43~~
17	CLJDWS151	JN4742V	C0189	21:18
18	CLJDWS151	JN4742V	C0206	21:56
~~19~~	~~A05SS-65~~	~~JN4629V~~	~~C0203~~	~~20:12~~
~~20~~	~~A02SS-67~~	~~JN4798V~~	~~C0204~~	~~20:47~~
~~21~~	~~A02SS-68~~	~~JN4799V~~	~~C0205~~	~~21:21~~
22	A01SS-49MSD	JN4617VR	C0155	17:31
23	VSPK01	N2V4030VS	C0152	15:47
24	A01SS-49MS	JN4617VS	C0154	16:57

COMMENTS:

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ASC Contract: NEESA

Lab Code: N/A Case No.: ~~93152Z0W~~ 15226 SAS No.: N/A SDG No.: C2JDW5K2

Lab File ID: C9157 BFB Injection Date: 09/22/94

Instrument ID: msc. E BFB Injection Time: 12:51

GC Column: DB-624 ID: .53 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.5
75	30.0 - 66.0% of mass 95	51.4
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	8.7
173	Less than 2.0% of mass 174	0 (0)1
174	50.0 - 120.0% of mass 95	77.3
175	4.0 - 9.0 % of mass 174	5.8 (7.5)1
176	93.0 - 101.0% of mass 174	75.0 (92.0)1
177	5.0 - 9.0% of mass 176	4.8 (6.4)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	VSTD10	VSTD10	C9158	09/22/94	13:37
02	VSTD20	VSTD20	C9159		14:12
03	VSTD50	VSTD50	C9160		14:44
04	VSTD100	VSTD100	C9161		15:16
05	VSTD200	VSTD200	C9162		15:48
06					
07					
08					
09					
10					
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12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Data File: /chem/aux/msc.i/c0922a94.b/c9157.d

Date : 22-SEP-94 12:51

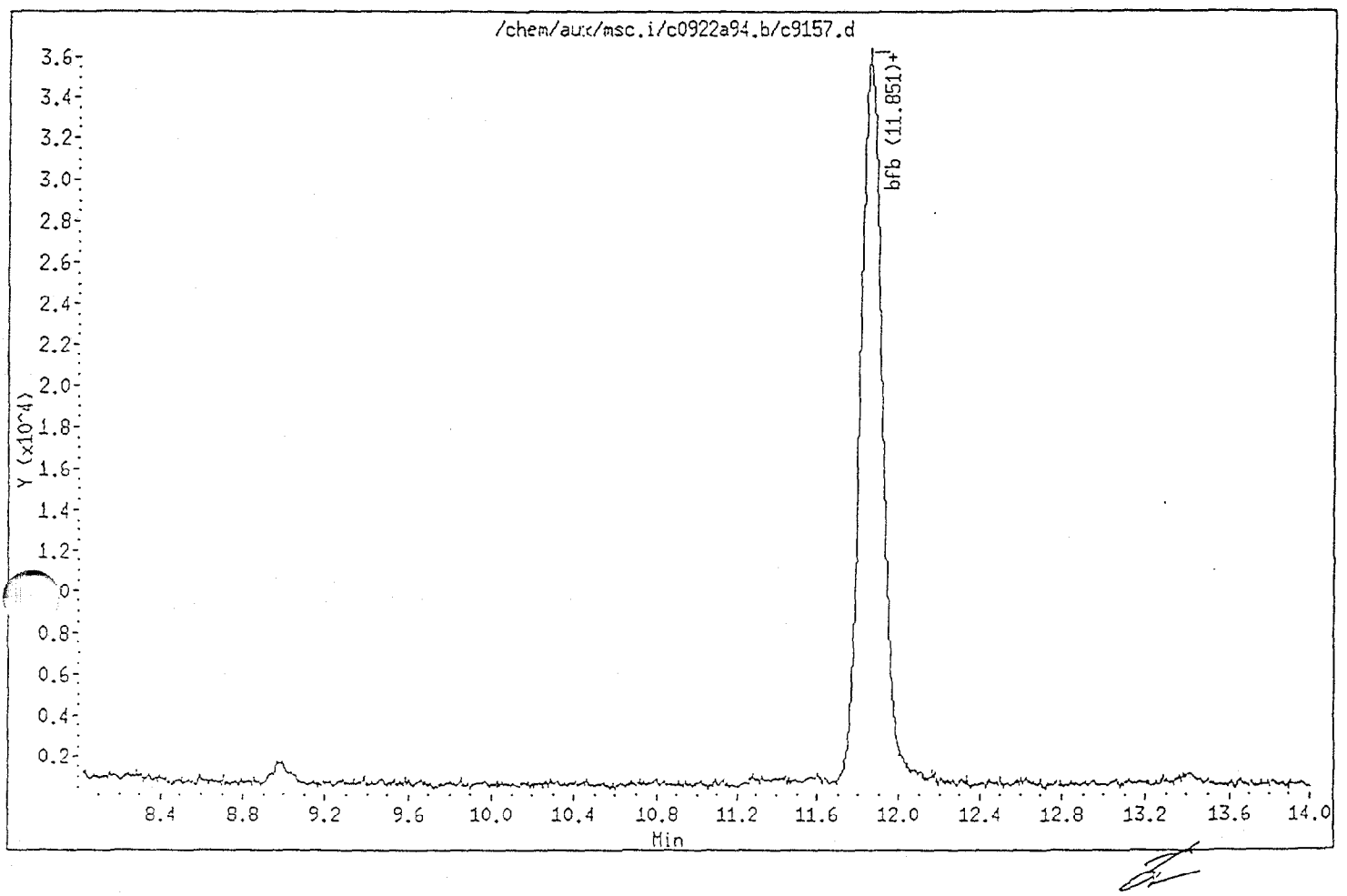
Instrument : msc.i

Sample ID :

Column phase :

Column diameter : 2.00

Volume Injected (uL) : 0.0



Data File: /chem/aux/msc.i/c0922a94.b/c9157.d

Date : 22-SEP-94 12:51

Instrument : msc.i

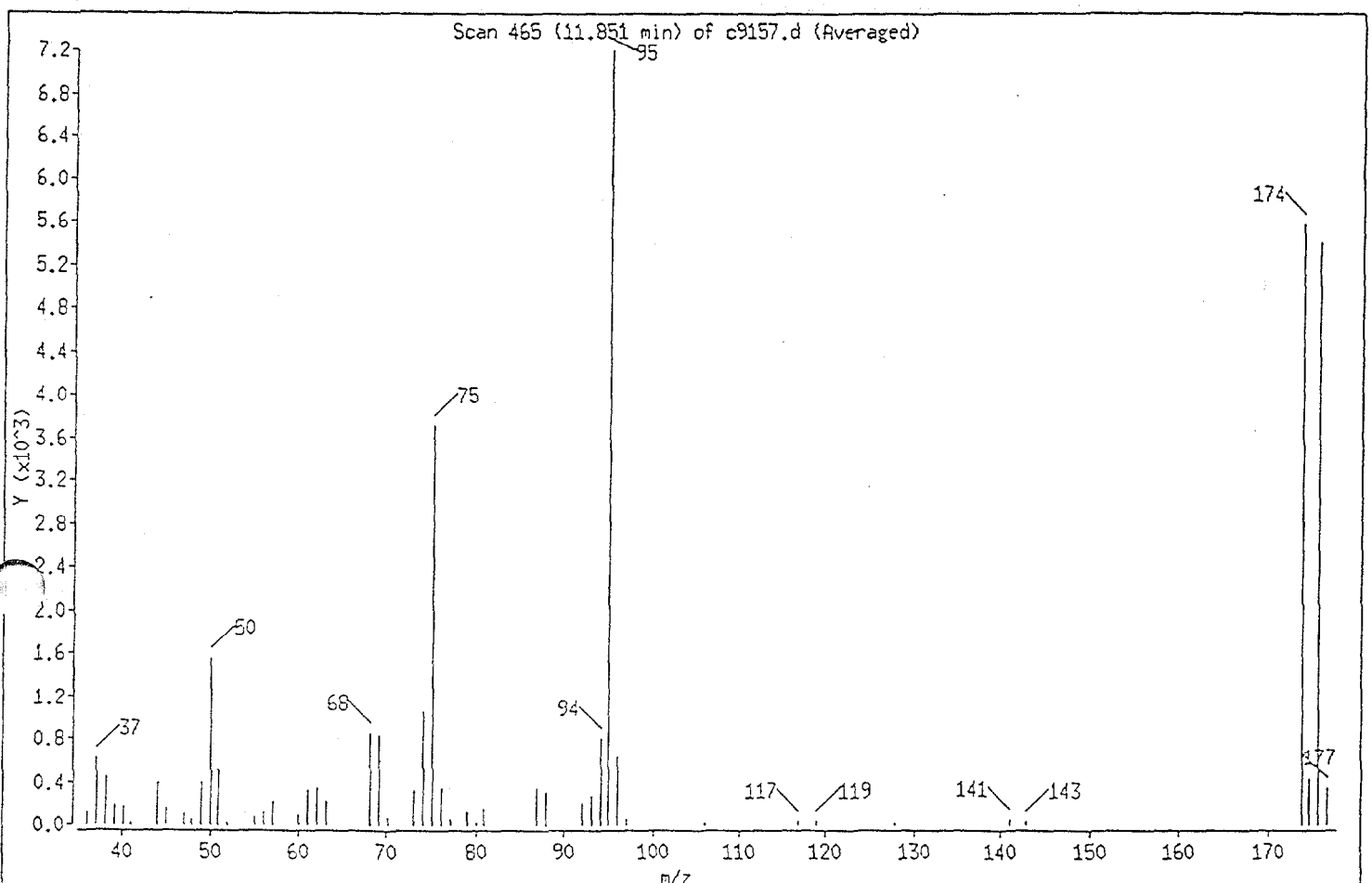
Sample ID :

Column phase :

Column diameter : 2.00

Volume Injected (uL) : 0.0

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.0
50	8.00 - 40.00% of mass 95	21.5
75	30.00 - 66.00% of mass 95	51.4
96	5.00 - 9.00% of mass 95	8.7
173	Less than 2.00% of mass 174	0.0
174	50.00 - 120.00% of mass 95	77.3
175	4.00 - 9.00% of mass 174	7.5
176	93.00 - 101.00% of mass 174	97.0
177	5.00 - 9.00% of mass 176	6.4

Data File: /chem/aux/msc.i/c0922a94.b/c9157.d

Date : 22-SEP-94 12:51

Instrument : msc.i

Sample ID :

Column phase :

Column diameter : 2.00

Volume Injected (uL) : 0.0

Spectrum: Scans 465-467 (11.851 min), Subtraction Scan 446

Location of Maximum: 95.00

Number of points: 48

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	114	56.00	118	77.00	43	117.00	37
37.00	618	57.00	163	79.00	111	119.00	38
38.00	448	60.00	80	80.00	16	128.00	18
39.00	180	61.00	330	81.00	154	141.00	43
40.00	37	62.00	335	87.00	340	143.00	41
44.00	38	63.00	218	88.00	308	174.00	5574
45.00	80	68.00	844	92.00	202	175.00	418
47.00	107	69.00	830	93.00	275	176.00	5406
48.00	50	70.00	72	94.00	798	177.00	346
49.00	389	73.00	322	95.00	7207		
50.00	1551	74.00	1050	96.00	624		
51.00	506	75.00	3707	97.00	51		
55.00	60	76.00	347	106.00	17		

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ASC Contract: NEESA

Lab Code: N/A Case No.: 15220N SAS No.: N/A SDG No.: CLJDWS075

Lab File ID: C9962 BFB Injection Date: 11/08/94

Instrument ID: MSC.I BFB Injection Time: 08:38

GC Column: _____ ID: _____(mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	33.1
75	30.0 - 66.0% of mass 95	60.3
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.6
173	Less than 2.0% of mass 174	0.2 (0.3)1
174	50.0 - 120.0% of mass 95	75.9
175	4.0 - 9.0 % of mass 174	5.3 (7.0)1
176	93.0 - 101.0% of mass 174	74.1 (97.6)1
177	5.0 - 9.0% of mass 176	5.5 (7.5)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	VSTD10	VSTD10	C9964	11/08/94	10:10
02	VSTD20	VSTD20	C9965		10:45
03	VSTD100	VSTD100	C9967		11:54
04	VSTD200	VSTD200	C9968		12:29
05	VSTD50	VSTD50	C9970		13:55
06					
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22					

Data File: /chem/aux/msc.i/c110894.b/c9962.d

Date : 08-NOV-94 08:38

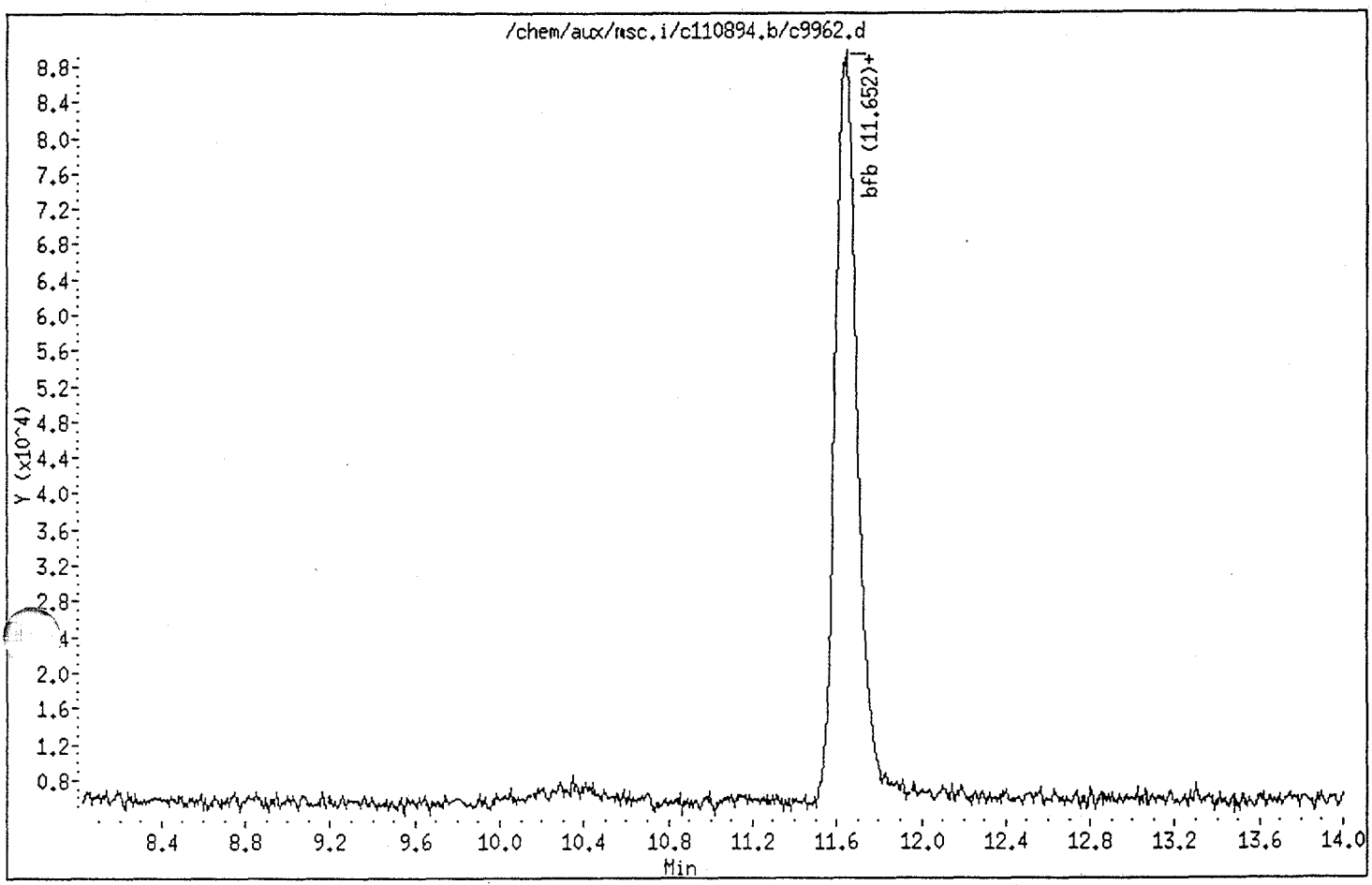
Instrument : msc.i

Sample ID :

Column phase :

Column diameter : 2.00

Volume Injected (uL) : 0.0



Data File: /chem/aux/msc.i/c110894.b/c9962.d

Date : 08-NOV-94 08:38

Instrument : msc.i

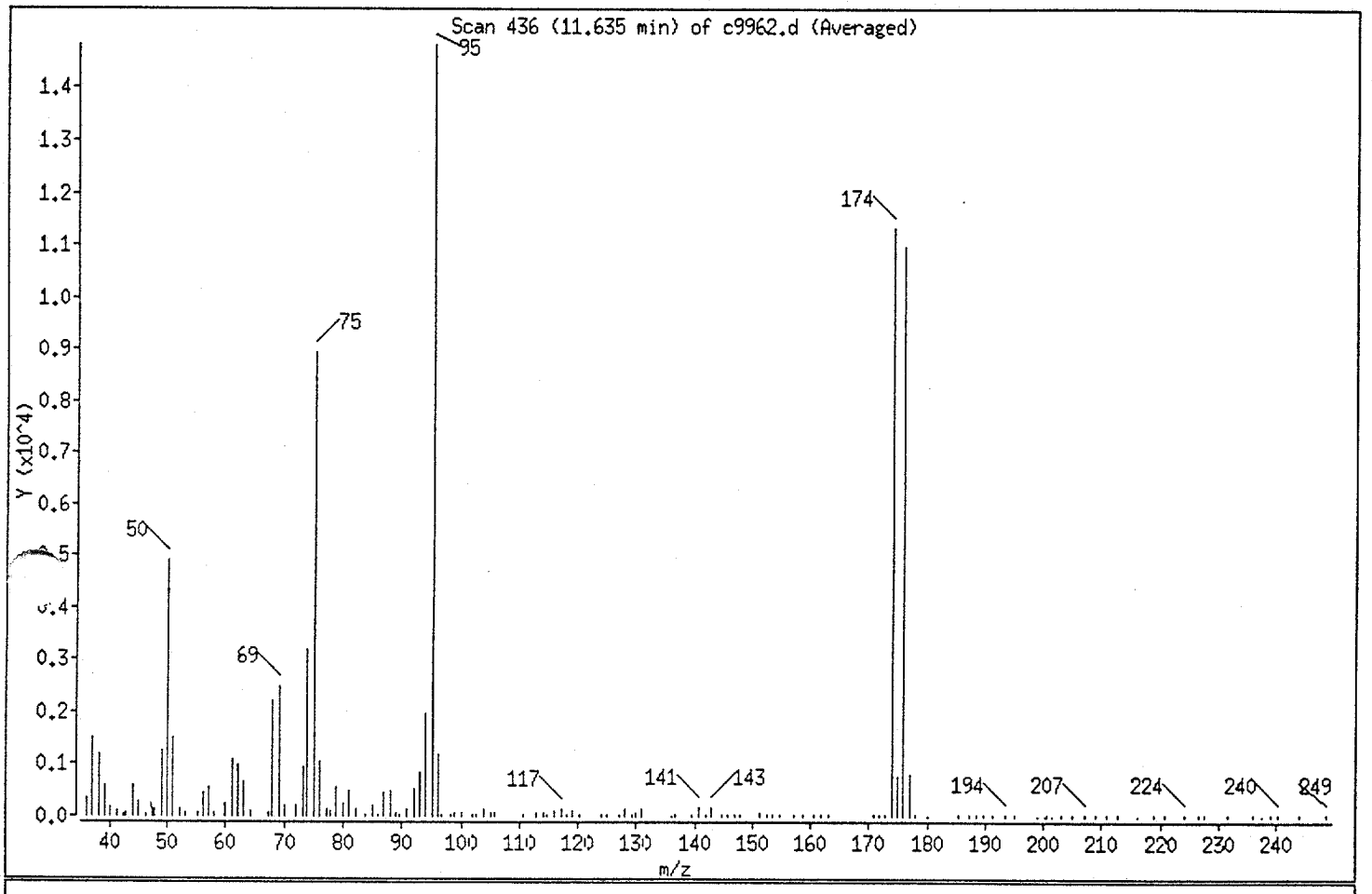
Sample ID :

Column phase :

Column diameter : 2.00

Volume Injected (uL) : 0.0

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.0
50	8.00 - 40.00% of mass 95	33.1
75	30.00 - 66.00% of mass 95	60.3
96	5.00 - 9.00% of mass 95	7.6
173	Less than 2.00% of mass 174	0.3
174	50.00 - 120.00% of mass 95	75.9
175	4.00 - 9.00% of mass 174	7.0
176	93.00 - 101.00% of mass 174	97.6
177	5.00 - 9.00% of mass 176	7.5

Data File: /chem/aux/msc.i/c110894.b/c9962.d

Date : 08-NOV-94 08:38

Instrument : msc.i

Sample ID :

Column phase :

Column diameter : 2.00

Volume Injected (uL) : 0.0

Spectrum: Scans 436-438 (11.635 min), Subtraction Scan 418
Location of Maximum: 95.00
Number of points: 121

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	250	78.00	41	124.00	18	187.00	27
37.00	1502	79.00	545	125.00	24	189.00	28
38.00	1202	80.00	162	128.00	142	190.00	28
39.00	528	81.00	422	129.00	39	194.00	41
41.00	10	82.00	56	130.00	61	195.00	21
42.00	23	84.00	25	131.00	76	199.00	17
45.00	268	86.00	19	136.00	17	200.00	17
47.00	175	87.00	455	140.00	30	201.00	18
48.00	54	88.00	481	141.00	163	202.00	17
49.00	1036	89.00	55	142.00	21	203.00	31
50.00	4910	90.00	18	143.00	186	205.00	20
51.00	1420	91.00	69	145.00	42	207.00	34
52.00	76	92.00	542	146.00	19	209.00	29
55.00	64	93.00	772	147.00	28	211.00	30
56.00	382	94.00	1969	148.00	19	213.00	31
57.00	468	95.00	14822	151.00	76	216.00	17
60.00	250	96.00	1125	153.00	26	219.00	21
61.00	1022	97.00	27	154.00	25	221.00	23
62.00	989	99.00	57	155.00	19	224.00	47
63.00	675	100.00	74	157.00	30	227.00	34
64.00	110	104.00	143	161.00	31	228.00	18
67.00	85	105.00	54	162.00	22	232.00	19
68.00	2143	106.00	76	171.00	36	236.00	19
69.00	2280	111.00	23	172.00	21	238.00	17
70.00	162	113.00	84	173.00	32	239.00	18
72.00	217	114.00	73	174.00	11256	240.00	37
73.00	936	115.00	38	175.00	786	244.00	19
74.00	3086	116.00	112	176.00	10982	249.00	19
75.00	8933	117.00	127	177.00	822		
76.00	1051	118.00	51	180.00	17		
77.00	145	120.00	37	185.00	34		

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.: CLJDW5075

Lab File ID: C0149 BFB Injection Date: 11/17/94

Instrument ID: MSC.E BFB Injection Time: 13:52

GC Column: _____ ID: _____(mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	25.2
75	30.0 - 66.0% of mass 95	50.1
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.8
173	Less than 2.0% of mass 174	0.2 (0.2)1
174	50.0 - 120.0% of mass 95	80.7
175	4.0 - 9.0 % of mass 174	5.6 (7.0)1
176	93.0 - 101.0% of mass 174	80.7 (100.0)1
177	5.0 - 9.0% of mass 176	5.6 (6.9)2

1-Value is % mass 174 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	VSTD50	C0150	11/17/94	14:36
02	VBLK01	VBLK01	C0151	↓	15:11
03	VSPK01	VSPK01	C0152		15:47
04	A0155-49MS	JN4617VS	C0154		16:57
05	A0155-49MSD	JN4617VR	C0155		17:31
06					
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17					
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21					
22					

Data File: /chem/aux/msc.i/c111794.b/c0149.d

Date : 17-NOV-94 13:52

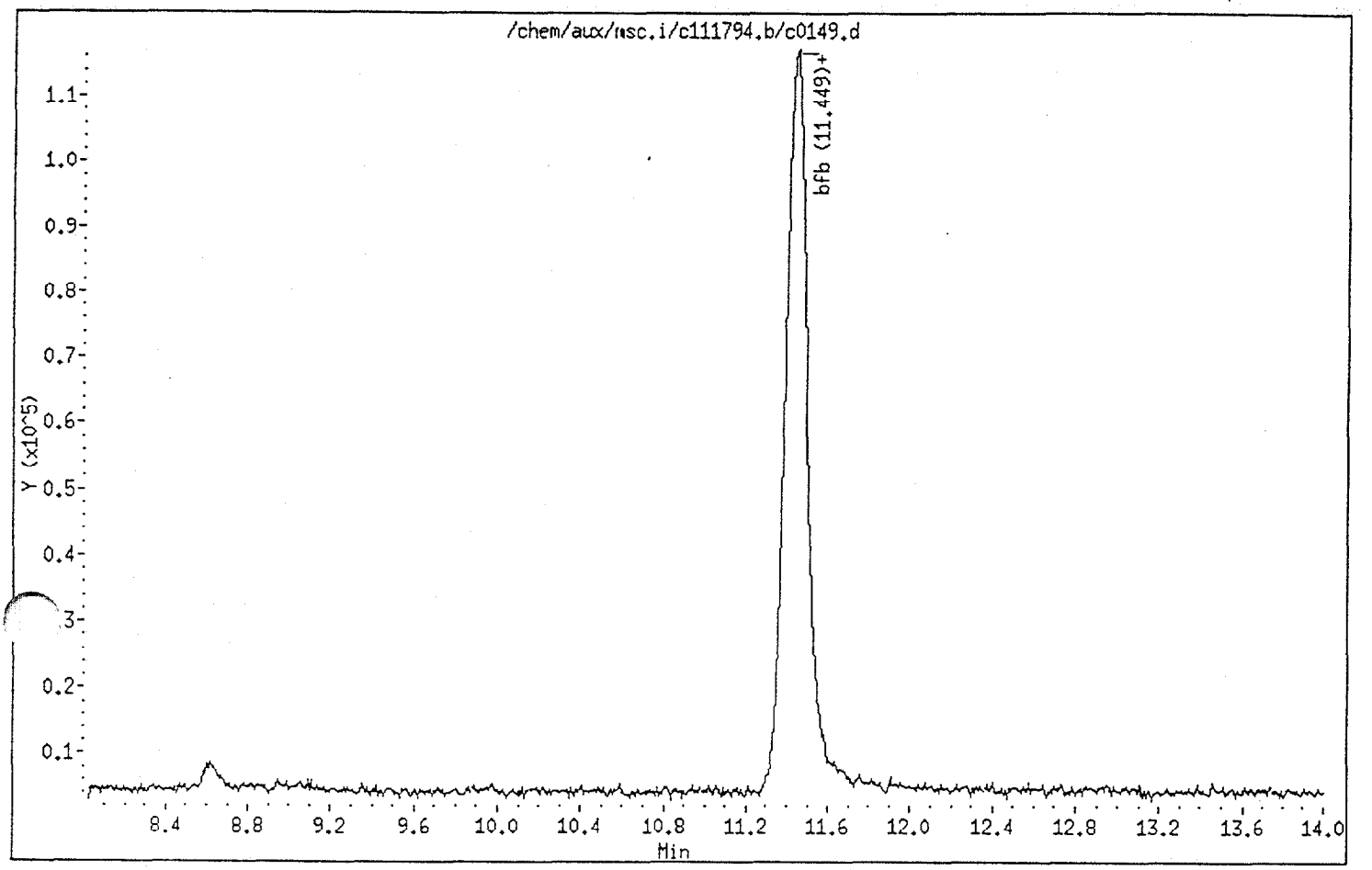
Instrument : msc.i

Sample ID :

Column phase :

Column diameter : 2.00

Volume Injected (uL) : 0.0



Data File: /chem/aux/msc.i/c111794.b/c0149.d

Date : 17-NOV-94 13:52

Instrument : msc.i

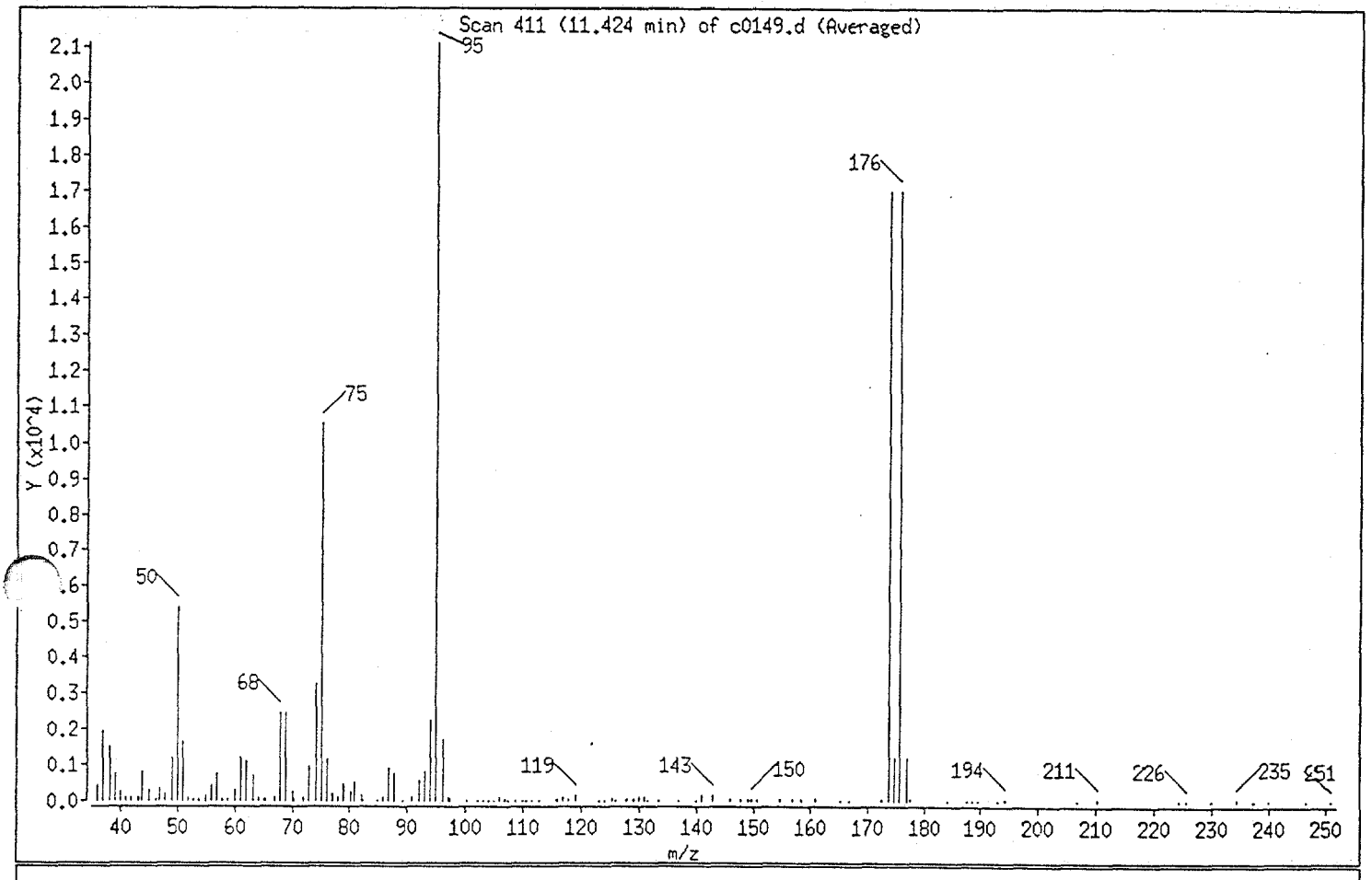
Sample ID :

Column phase :

Column diameter : 2.00

Volume Injected (uL) : 0.0

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.0
50	8.00 - 40.00% of mass 95	25.2
75	30.00 - 66.00% of mass 95	50.1
96	5.00 - 9.00% of mass 95	7.8
173	Less than 2.00% of mass 174	0.2
174	50.00 - 120.00% of mass 95	80.7
175	4.00 - 9.00% of mass 174	7.0
176	93.00 - 101.00% of mass 174	100.0
177	5.00 - 9.00% of mass 176	6.9

Data File: /chem/aux/msc.i/c111794.b/c0149.d

Date : 17-NOV-94 13:52

Instrument : msc.i

Sample ID :

Column phase :

Column diameter : 2.00

Volume Injected (uL) : 0.0

Spectrum: Scans 411-413 (11.424 min), Subtraction Scan 393
Location of Maximum: 95.00
Number of points: 117

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	262	70.00	184	106.00	97	157.00	39
37.00	1945	72.00	101	107.00	42	159.00	41
38.00	1432	73.00	892	108.00	18	161.00	59
39.00	724	74.00	3249	109.00	24	166.00	17
42.00	7	75.00	10546	110.00	24	167.00	20
43.00	103	76.00	1127	112.00	18	173.00	36
44.00	225	77.00	196	113.00	21	174.00	16986
45.00	306	78.00	120	116.00	65	175.00	1183
46.00	36	79.00	406	117.00	117	176.00	16987
47.00	336	80.00	167	118.00	72	177.00	1173
48.00	222	81.00	480	119.00	73	178.00	52
49.00	1197	82.00	163	123.00	21	184.00	18
50.00	5306	83.00	16	124.00	21	188.00	22
51.00	1518	85.00	19	125.00	40	189.00	23
53.00	56	86.00	86	126.00	24	190.00	19
54.00	52	87.00	891	128.00	60	193.00	19
55.00	153	88.00	758	129.00	48	194.00	43
56.00	348	89.00	23	130.00	81	207.00	24
57.00	761	91.00	69	131.00	75	211.00	36
58.00	28	92.00	517	132.00	22	224.00	18
60.00	292	93.00	806	134.00	23	226.00	23
61.00	1142	94.00	2239	137.00	22	230.00	20
62.00	1090	95.00	21038	140.00	18	235.00	27
63.00	605	96.00	1645	141.00	145	237.00	21
64.00	92	97.00	104	143.00	123	238.00	22
65.00	53	98.00	50	148.00	53	247.00	24
66.00	53	101.00	23	149.00	25	251.00	18
67.00	111	102.00	19	150.00	64		
68.00	2438	103.00	19	151.00	26		
69.00	2322	105.00	22	155.00	47		

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.: CLJDW5075

Lab File ID: C0172 BFB Injection Date: 11/18/94

Instrument ID: MSC.F BFB Injection Time: 11:00

GC Column: _____ ID: _____(mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	29.3
75	30.0 - 66.0% of mass 95	56.5
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.9 (1.2)1
174	50.0 - 120.0% of mass 95	79.4
175	4.0 - 9.0 % of mass 174	5.7 (7.1)1
176	93.0 - 101.0% of mass 174	78.7 (99.2)1
177	5.0 - 9.0% of mass 176	6.1 (7.8)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	VSTD50	VSTD50	C0173	11/18/94	11:32
02	CLJDW5151	JN4742V	C0189	↓	21:18
03					
04					
05					
06					
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15					
16					
17					
18					
19					
20					
21					
22					

Data File: /chem/aux/msc.i/c111894.b/c0172.d

Date : 18-NOV-94 11:00

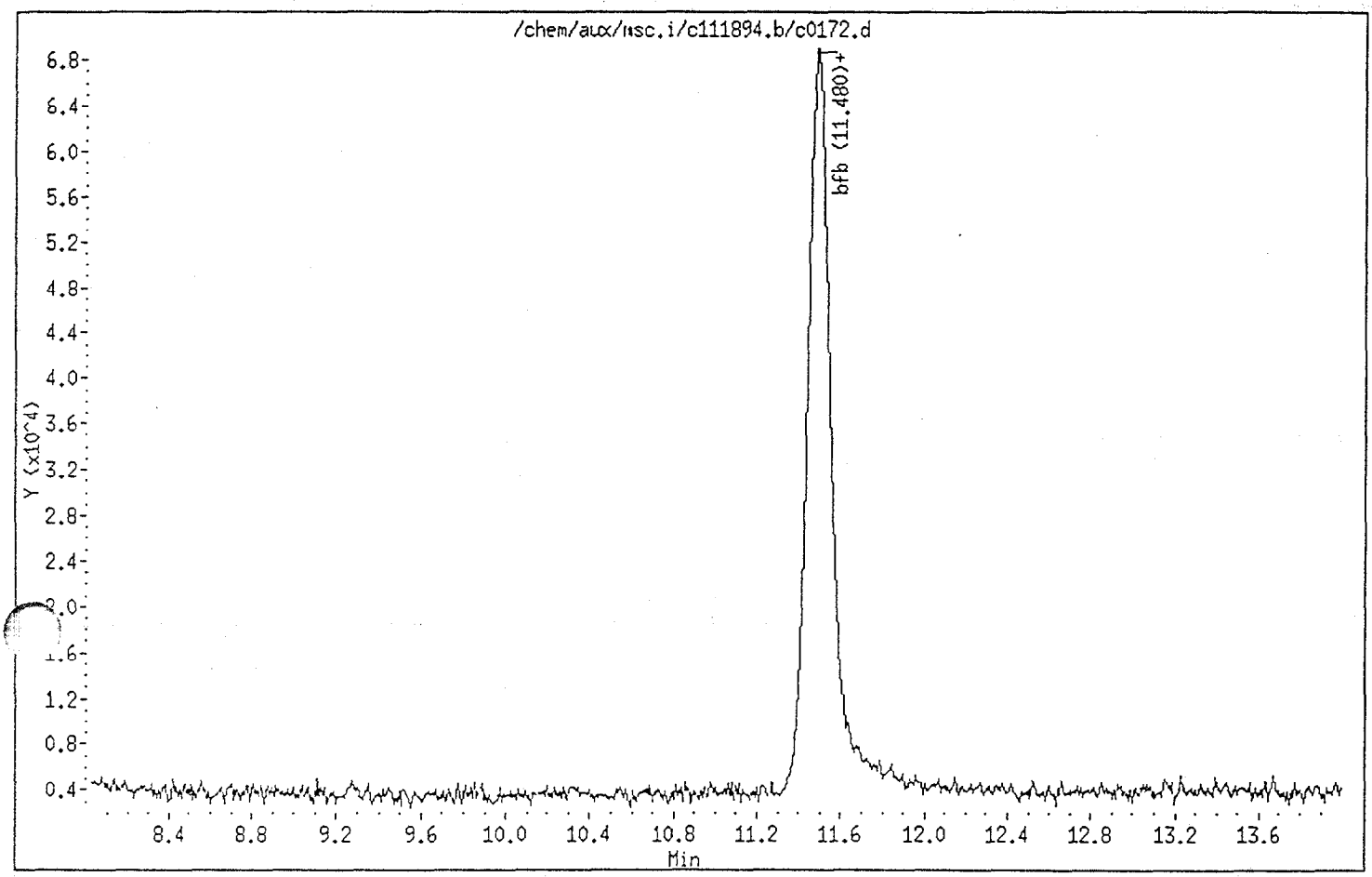
Instrument : msc.i

Sample ID :

Column phase :

Column diameter : 2.00

Volume Injected (uL) : 0.0



Data File: /chem/aux/msc.i/c111894.b/c0172.d

Date : 18-NOV-94 11:00

Instrument : msc.i

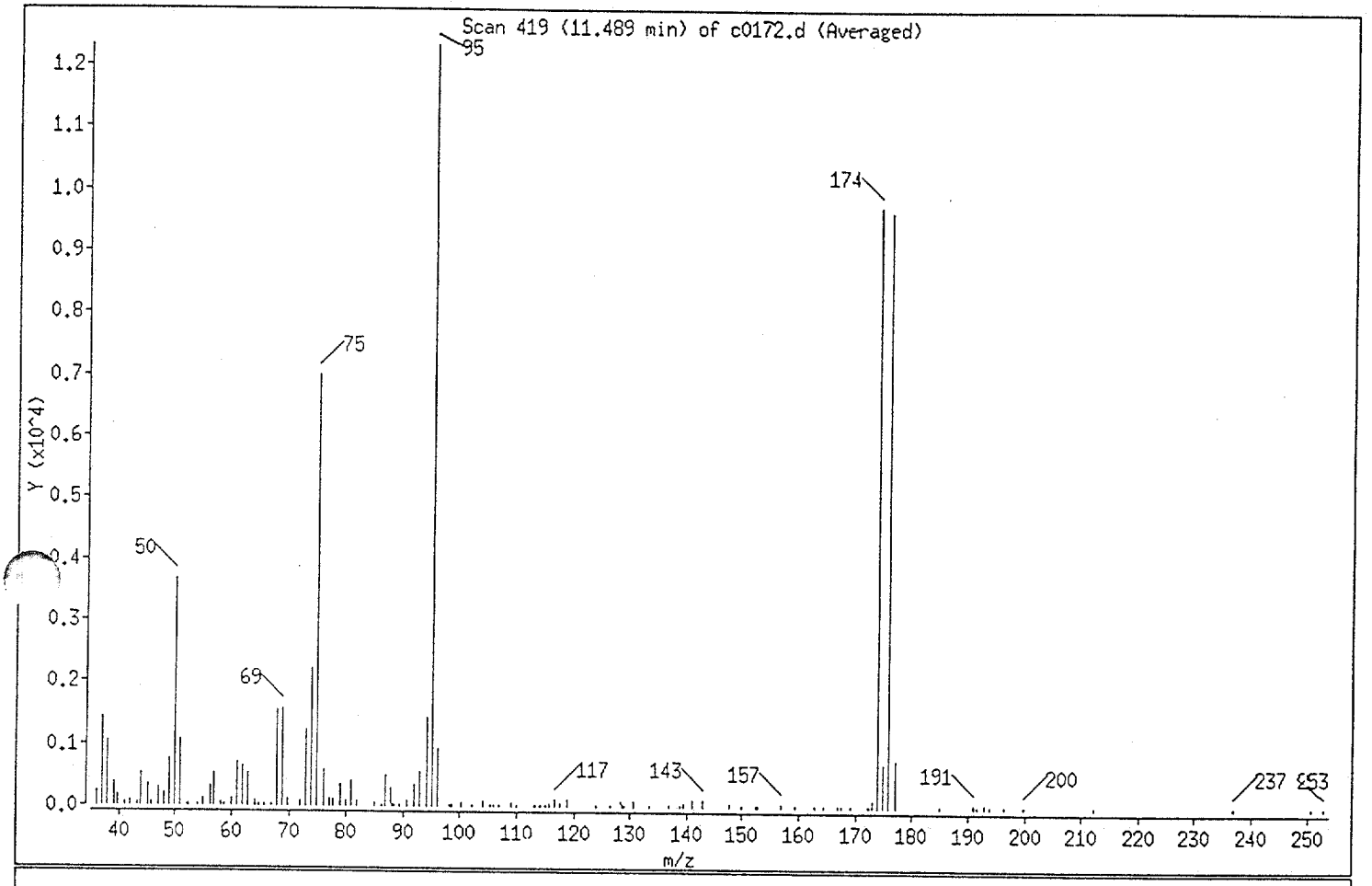
Sample ID :

Column phase :

Column diameter : 2.00

Volume Injected (uL) : 0.0

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.0
50	8.00 - 40.00% of mass 95	29.3
75	30.00 - 66.00% of mass 95	56.5
96	5.00 - 9.00% of mass 95	6.4
173	Less than 2.00% of mass 174	1.2
174	50.00 - 120.00% of mass 95	79.4
175	4.00 - 9.00% of mass 174	7.1
176	93.00 - 101.00% of mass 174	99.2
177	5.00 - 9.00% of mass 176	7.8

Data File: /chem/aux/msc.i/c111894.b/c0172.d

Date : 18-NOV-94 11:00

Instrument : msc.i

Sample ID :

Column phase :

Column diameter : 2.00

Volume Injected (uL) : 0.0

Spectrum: Scans 419-421 (11.489 min), Subtraction Scan 400
Location of Maximum: 95.00
Number of points: 101

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	149	70.00	128	104.00	100	157.00	71
37.00	1336	72.00	20	105.00	16	159.00	19
38.00	945	73.00	1031	106.00	28	163.00	19
39.00	390	74.00	2226	107.00	27	167.00	29
44.00	201	75.00	6926	109.00	44	168.00	17
45.00	335	76.00	500	110.00	38	169.00	21
46.00	54	77.00	123	113.00	20	172.00	23
47.00	280	78.00	109	114.00	21	173.00	113
48.00	133	79.00	351	115.00	19	174.00	9730
49.00	750	80.00	14	116.00	53	175.00	695
50.00	3596	81.00	397	117.00	108	176.00	9651
51.00	984	82.00	92	118.00	45	177.00	754
53.00	23	86.00	26	119.00	102	185.00	19
55.00	121	87.00	494	124.00	25	191.00	51
56.00	316	88.00	283	127.00	26	192.00	17
57.00	388	89.00	43	128.00	73	193.00	49
58.00	58	90.00	21	129.00	25	194.00	21
60.00	127	91.00	77	131.00	80	196.00	26
61.00	708	92.00	359	134.00	21	200.00	22
62.00	644	93.00	477	137.00	18	212.00	16
63.00	472	94.00	1418	139.00	19	237.00	22
64.00	91	95.00	12261	141.00	110	251.00	21
65.00	19	96.00	789	143.00	115	253.00	23
66.00	20	99.00	29	148.00	67		
68.00	1493	100.00	52	152.00	23		
69.00	1428	102.00	21	153.00	21		

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.: CLTDWS075

Lab File ID: C0194 BFB Injection Date: 11/19/94

Instrument ID: MSC.E BFB Injection Time: 14:48

GC Column: DB-624 ID: .53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	25.7
75	30.0 - 66.0% of mass 95	53.1
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.6
173	Less than 2.0% of mass 174	1.0 (1.2)1
174	50.0 - 120.0% of mass 95	79.9
175	4.0 - 9.0 % of mass 174	5.4 (6.7)1
176	93.0 - 101.0% of mass 174	77.6 (97.0)1
177	5.0 - 9.0% of mass 176	6.3 (8.2)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	VSTD50	VSTD50	C0195	11/19/94	16:20
02	VBLK01	VBLK01	C0196		16:53
03	CLTDWS075	JN4743V	C0197		17:25
04	VSPK01	VSPK01	C0198		17:58
05	CLTDWS075MS	JN4743VS	C0199		18:31
06	CLTDWSC75MSD	JN4743VR	C0200		19:03
07	CLTDWS151.02	JN4742V	C0206	11/19/94-1	21:36
08	VBLK01	VBLK01	C0208		23:02
09	VSPK01	VSPK01	C0209		23:35
10	RB-01A/DMS	JN5027XS	C0212	11/20/94	0113
11	RB-01A/DMSD	JN5027VR	C0213		0148 0145
12	CLTDWS102	JN4741V	C0214		0183 0218
13	FB01A/B	JN5046V	C0210		0008
14	RB-01A/B	JN5027V	C0211		0040
15					
16					
17					
18					
19					
20					
21					
22					

Data File: /chem/aux/msc.i/c111994.b/c0194.d

Date : 19-NOV-94 14:48

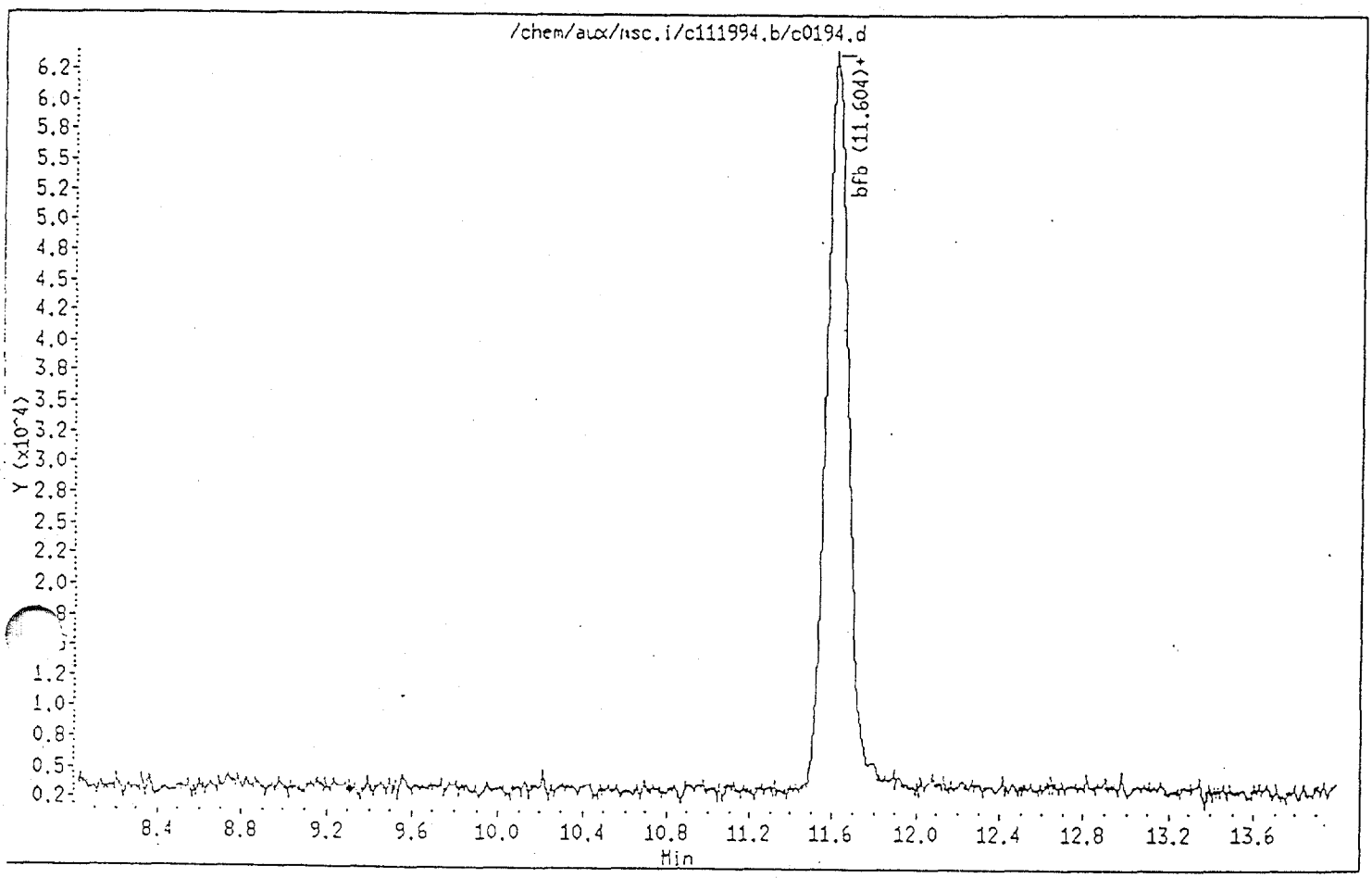
Instrument : msc.i

Sample ID :

Column phase :

Column diameter : 2.00

Volume Injected (uL) : 0.0



Data File: /chem/aux/msc.i/c111994.b/c0194.d

Date : 19-NOV-94 14:48

Instrument : msc.i

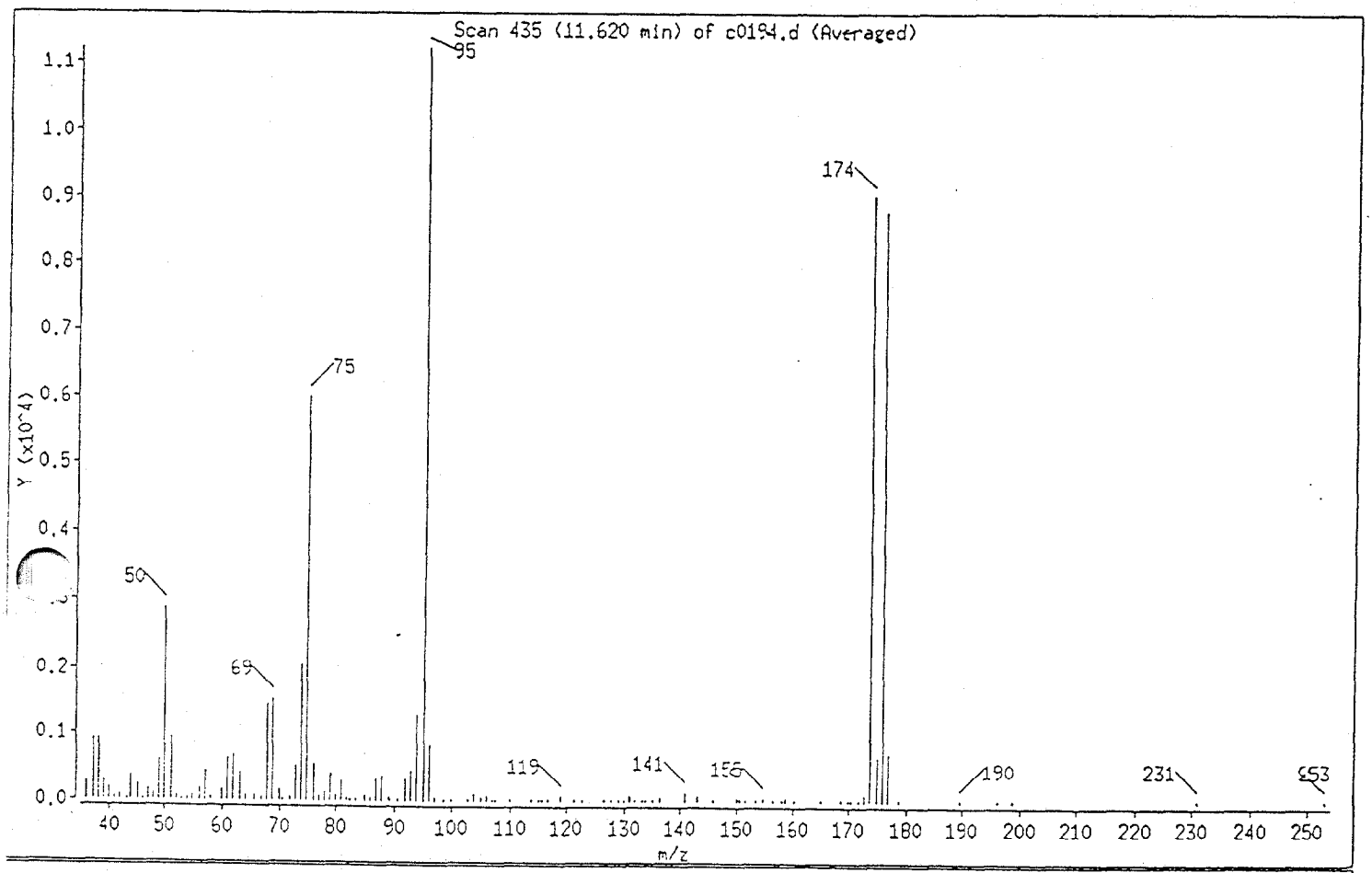
Sample ID :

Column phase :

Column diameter : 2.00

Volume Injected (uL) : 0.0

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.0
50	8.00 - 40.00% of mass 95	25.7
75	30.00 - 66.00% of mass 95	53.1
96	5.00 - 9.00% of mass 95	7.6
173	Less than 2.00% of mass 174	1.2
174	50.00 - 120.00% of mass 95	79.9
175	4.00 - 9.00% of mass 174	6.7
176	93.00 - 101.00% of mass 174	97.0
177	5.00 - 9.00% of mass 176	8.2

Data File: /chem/aux/msc.i/c111994.b/c0194.d

Date : 19-NOV-94 14:48

Instrument : msc.i

Sample ID :

Column phase :

Column diameter : 2.00

Volume Injected (uL) : 0.0

Spectrum: Scans 435-437 (11.620 min), Subtraction Scan 415
Location of Maximum: 95.00
Number of points: 96

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	151	69.00	1439	100.00	18	152.00	24
37.00	933	70.00	165	103.00	16	154.00	21
38.00	862	73.00	534	104.00	55	158.00	24
39.00	299	74.00	2030	105.00	55	159.00	58
40.00	67	75.00	5930	106.00	88	161.00	21
45.00	147	76.00	426	107.00	17	165.00	18
47.00	52	77.00	70	115.00	34	169.00	19
48.00	104	78.00	125	116.00	25	170.00	21
49.00	603	79.00	393	119.00	82	171.00	20
50.00	2864	80.00	67	121.00	26	172.00	17
51.00	881	81.00	290	122.00	22	173.00	107
52.00	74	82.00	52	123.00	34	174.00	8925
53.00	17	83.00	19	127.00	19	175.00	601
54.00	57	84.00	17	128.00	16	176.00	8660
55.00	75	87.00	244	129.00	22	177.00	706
56.00	195	88.00	383	131.00	77	179.00	20
57.00	310	89.00	48	133.00	25	190.00	21
58.00	41	90.00	31	134.00	21	197.00	21
60.00	168	91.00	29	135.00	16	199.00	16
61.00	645	92.00	324	137.00	45	231.00	18
62.00	678	93.00	445	141.00	121	253.00	18
63.00	413	94.00	1308	143.00	88		
64.00	24	95.00	11164	146.00	35		
66.00	69	96.00	848	150.00	50		
68.00	1459	97.00	57	151.00	41		