Contractor's Closeout Report

Underground Storage Tank Removals at Building 25 MCB Camp Lejeune Jacksonville, North Carolina

Contract No. N62470-93-D-3032
Delivery Order 0078

Volume III of IV

Submitted to

Department of the Navy
Atlantic Division
Naval Facilities Engineering Command
Norfolk, VA

Submitted by

OHM Remediation Services Corp.
A Subsidiary of OHM Corporation

5335 Triangle Parkway, Suite 450
Norcross, GA 30092

October 1996

OHM Project No. 17418

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET 0027

EPA SAMPLE NO.

CLJ78CS001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2491V

Sample wt/vol: ~~2.2018~~ 4.40 (g/mL) G Lab File ID: C7980

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: not dec. 18 Date Analyzed: 01/22/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 5000.0

Soil Extract Volume: ~~5000~~ 10000 (uL) Soil Aliquot Volume: 1.00 (uL)

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	69000	U
74-83-9	Bromomethane	69000	U
75-01-4	Vinyl Chloride	69000	U
75-00-3	Chloroethane	69000	U
75-09-2	Methylene Chloride	69000	U
67-64-1	Acetone	140000	U
75-15-0	Carbon Disulfide	69000	U
75-35-4	1,1-Dichloroethene	69000	U
75-34-3	1,1-Dichloroethane	69000	U
540-59-0	1,2-Dichloroethene (total)	44000	J
67-66-3	Chloroform	69000	U
107-06-2	1,2-Dichloroethane	69000	U
78-93-3	2-Butanone	69000	U
71-55-6	1,1,1-Trichloroethane	69000	U
56-23-5	Carbon Tetrachloride	69000	U
75-27-4	Bromodichloromethane	69000	U
78-87-5	1,2-Dichloropropane	69000	U
10061-01-5	cis-1,3-Dichloropropene	69000	U
79-01-6	Trichloroethene	69000	U
124-48-1	Dibromochloromethane	69000	U
79-00-5	1,1,2-Trichloroethane	69000	U
71-43-2	Benzene	69000	U
10061-02-6	trans-1,3-Dichloropropene	69000	U
75-25-2	Bromoform	69000	U
108-10-1	Methyl-iso-butyl ketone	140000	U
591-78-6	2-Hexanone	69000	U
127-18-4	Tetrachloroethylene	1800000	—
79-34-5	1,1,2,2-Tetrachloroethane	69000	U
108-88-3	Toluene	69000	U
108-90-7	Chlorobenzene	69000	U
100-41-4	Ethylbenzene	69000	U
100-42-5	Styrene	69000	U
1330-20-7	Xylene (total)	69000	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0028

EPA SAMPLE NO.

CLJ78CS001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2491V

Sample wt/vol: ~~2.20~~ 4.40 AB (g/mL) G Lab File ID: C7980

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: not dec. 18 Date Analyzed: 01/22/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 5000.0

Soil Extract Volume: ~~5000~~ 10000 AB (uL) Soil Aliquot Volume: 1.00 (uL)

Number TICs found: 10

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

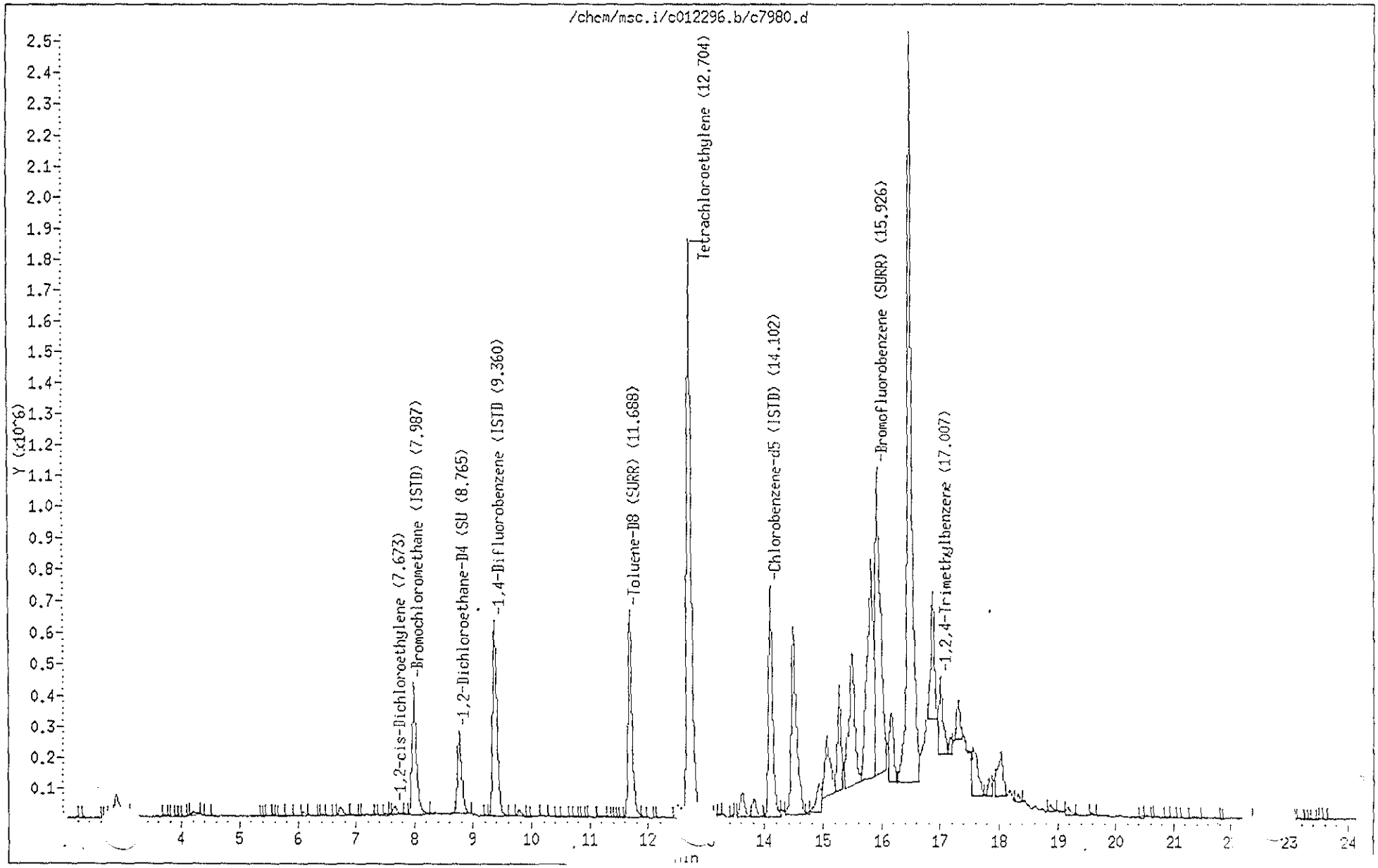
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 111-84-2	Nonane	14.48	600000	JN
2.	Unk hydrocarbon	14.92	86000	J
3.	unknown	15.06	210000	J
4. 5911-04-6	Nonane, 3-methyl-	15.28	230000	JN
5.	unknown	15.49	480000	J
6.	Unk hydrocarbon	15.83	820000	J
7.	unknown	16.17	190000	J
8. 124-18-5	Decane	16.47	2100000	JN
9. 2847-72-5	Decane, 4-methyl-	16.87	260000	JN
10. 526-73-8	Benzene, 1,2,3-trimethyl-	17.56	170000	JN

0029

Data File: /chem/msc.i/c012296.b/c7980.d
Date : 22-JAN-96 04:36
Client ID: 17418n clj78cs001
Sample Info: 17418n clj78cs001
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i

Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c012296.b/c7980.d
Report Date: 22-Jan-1996 11:39

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240 + Screen

Data file : /chem/msc.i/c012296.b/c7980.d
Lab Smp Id: Client Smp ID: 17418n clj78cs001
Inj Date : 22-JAN-96 04:36
Operator : jk Inst ID: msc.i
Smp Info : 17418n clj78cs001
Misc Info : jp2491v,n2v4914,m2,1,5000,2.20,5.00,960121
Comment :
Method : /chem/msc.i/c012296.b/012196_ambic.m
Meth Date : 22-Jan-1996 08:31 glenn Quant Type: ISTD
Cal Date : 22-JAN-96 00:26 Cal File: c7973.d
Als bottle: 11
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

MK 1/22/96

#590

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
1,2-cis-Dichloroethylene	96.00	7.665	7.581	(0.960)	20837	3.16	3.16(QM)
Bromochloromethane (ISTD)	128.00	7.987	7.904	(1.000)	223585	50.0	
3 ,2-Dichloroethane-D4 (SURR)	65.00	8.765	8.659	(1.097)	451955	50.8	50.8
30 1,4-Difluorobenzene (ISTD)	114.00	9.360	9.239	(1.000)	1016275	50.0	
38 Toluene-D8 (SURR)	98.00	11.688	11.573	(0.829)	972597	48.5	48.5
42 Tetrachloroethylene	164.00	12.704	12.592	(0.901)	1151147	132	132
47 Chlorobenzene-d5 (ISTD)	117.00	14.093	13.991	(1.000)	853353	50.0	
56 Bromofluorobenzene (SURR)	95.00	15.926	15.840	(1.130)	933811	51.5	51.5
65 1,2,4-Trimethylbenzene	105.00	17.007	16.937	(1.207)	221251	8.94	8.94

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: /chem/msc.i/c012296.b/c7980.d

Date : 22-JAN-96 04:36

Client ID: 17418n clj78cs001

Instrument: msc.i

mple Info: 17418n clj78cs001

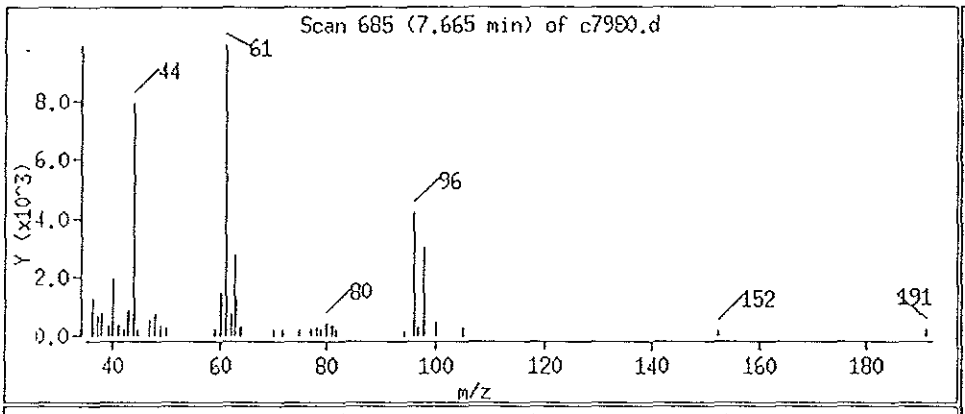
Purge Volume: 1.0

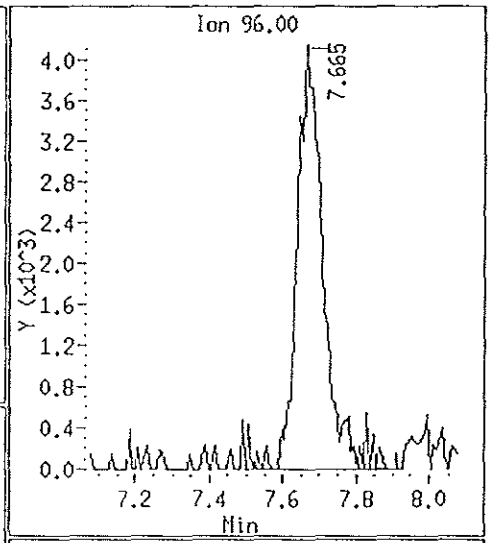
Operator: jk

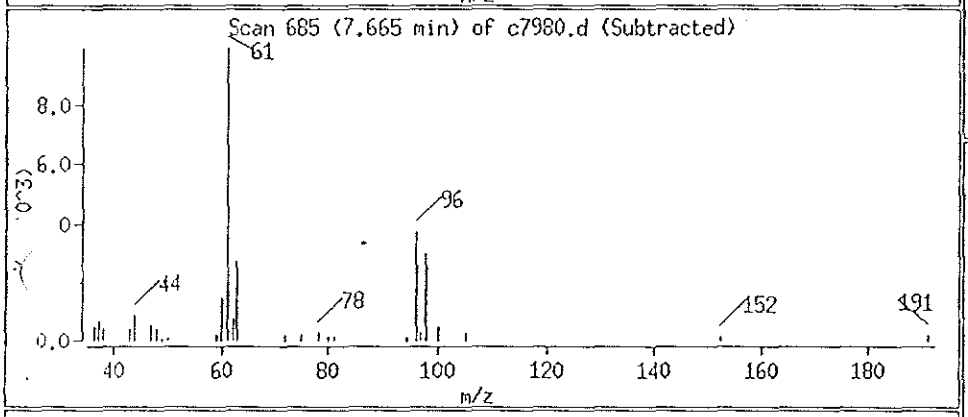
Column phase: J&W DB_624

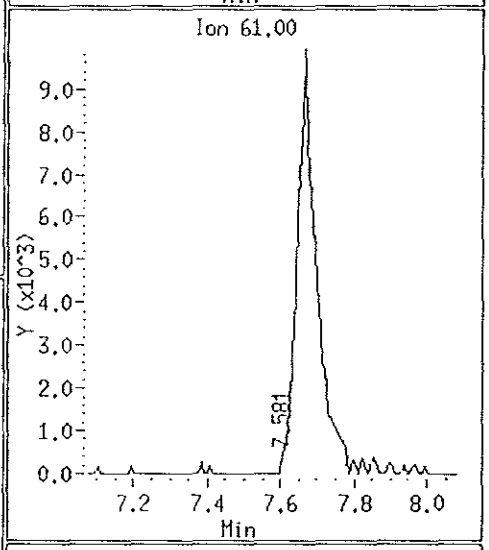
Column diameter: 0.53

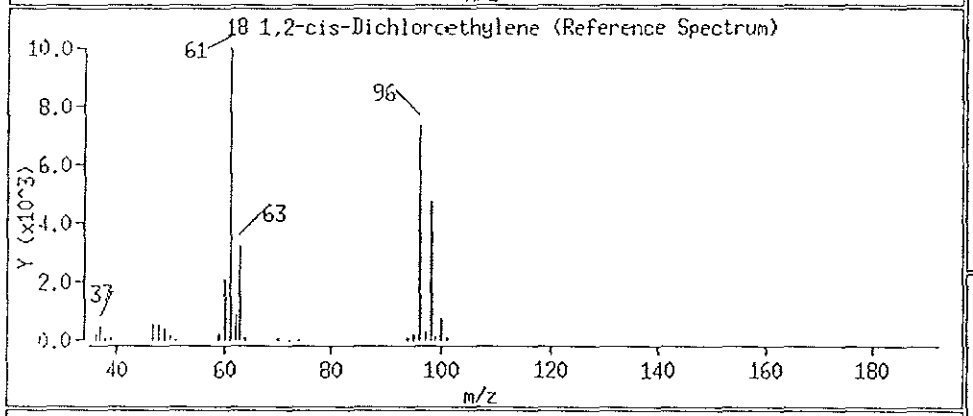
18 1,2-cis-Dichlorcethylene

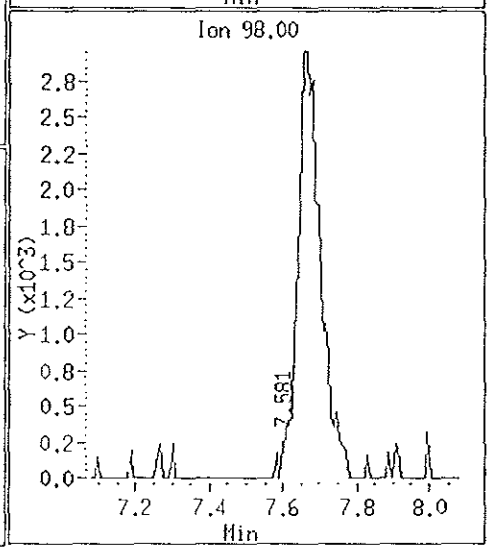


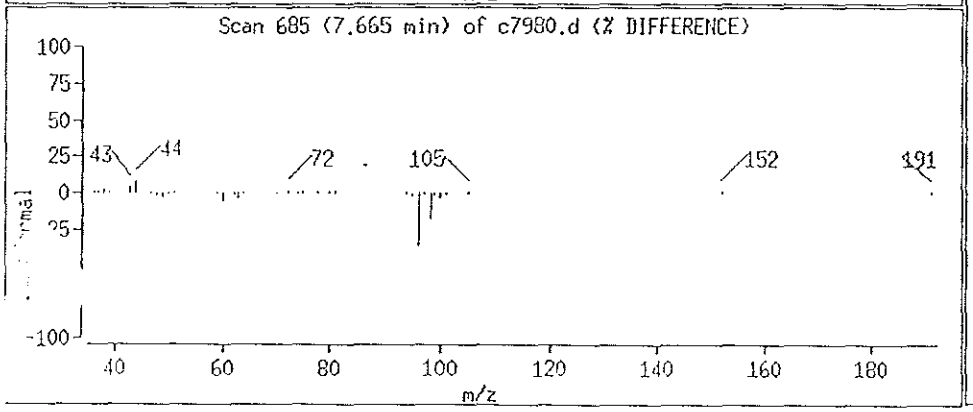












Data File: /chem/msc.i/c012296.b/c7980.d

Date : 22-JAN-96 04:36

Client ID: 17418n clj78cs001

Instrument: msc.i

ample Info: 17418n clj78cs001

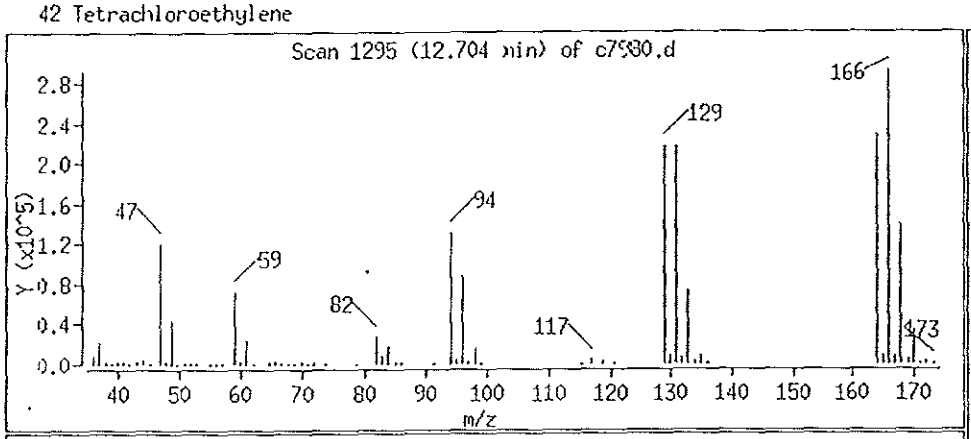
urge Volume: 1.0

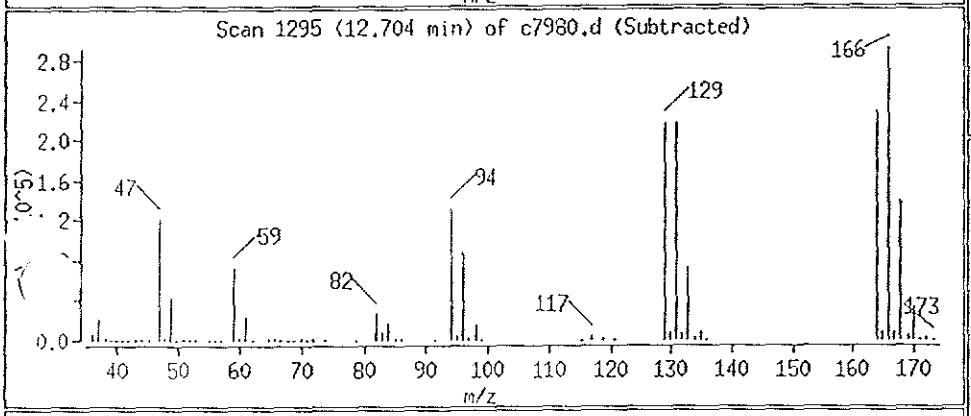
Operator: jk

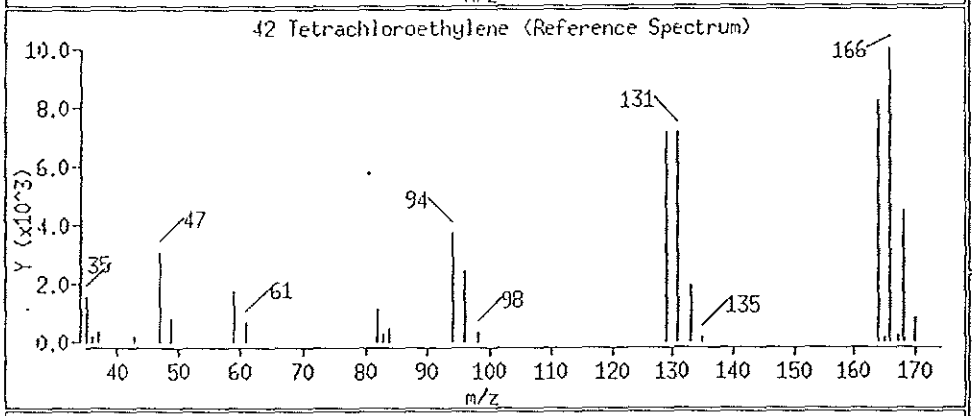
Column phase: J&W DB_624

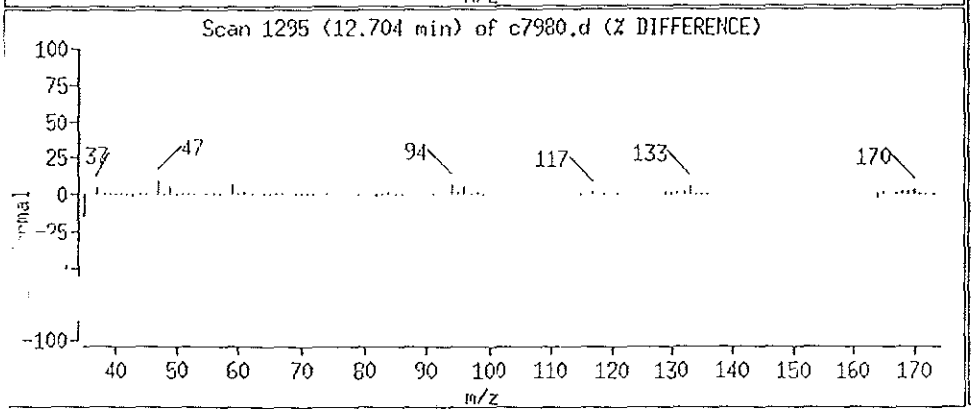
Column diameter: 0.53

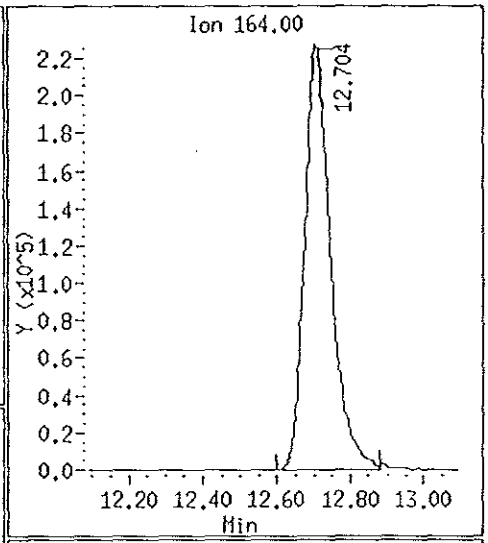
42 Tetrachloroethylene

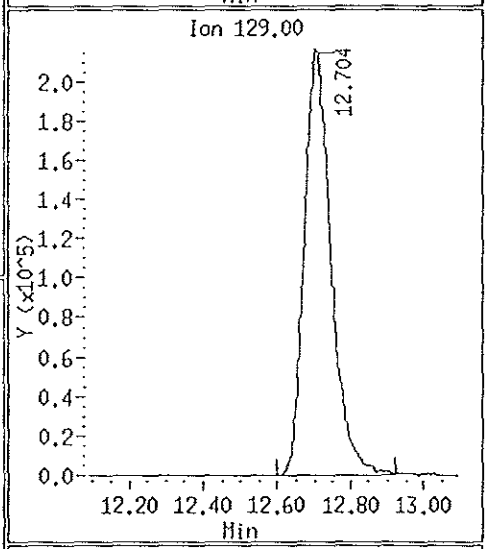


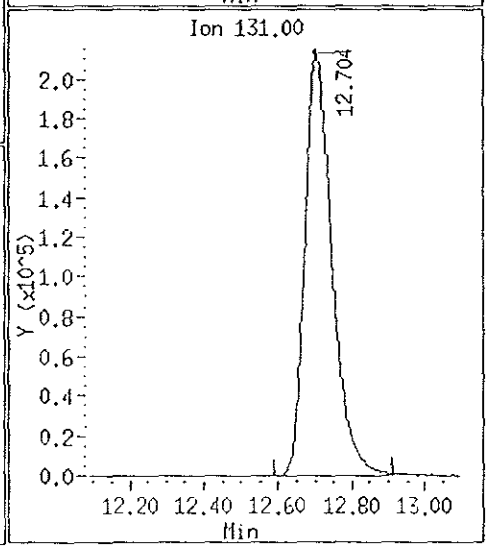












Data File: /chem/msc.i/c012296.b/c7980.d

Date : 22-JAN-96 04:36

Client ID: 17418n clj78cs001

Instrument: msc.i

Sample Info: 17418n clj78cs001

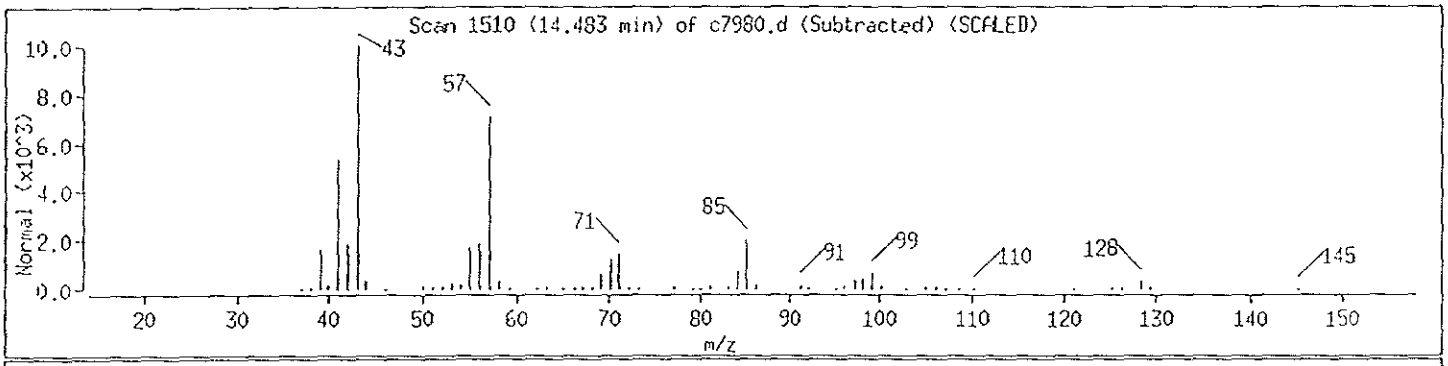
Purge Volume: 1.0

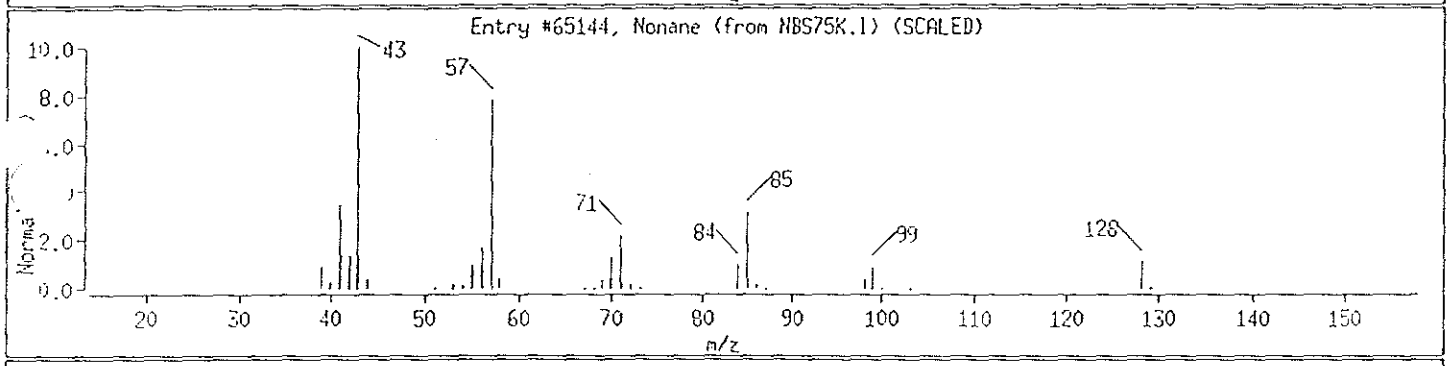
Operator: jk

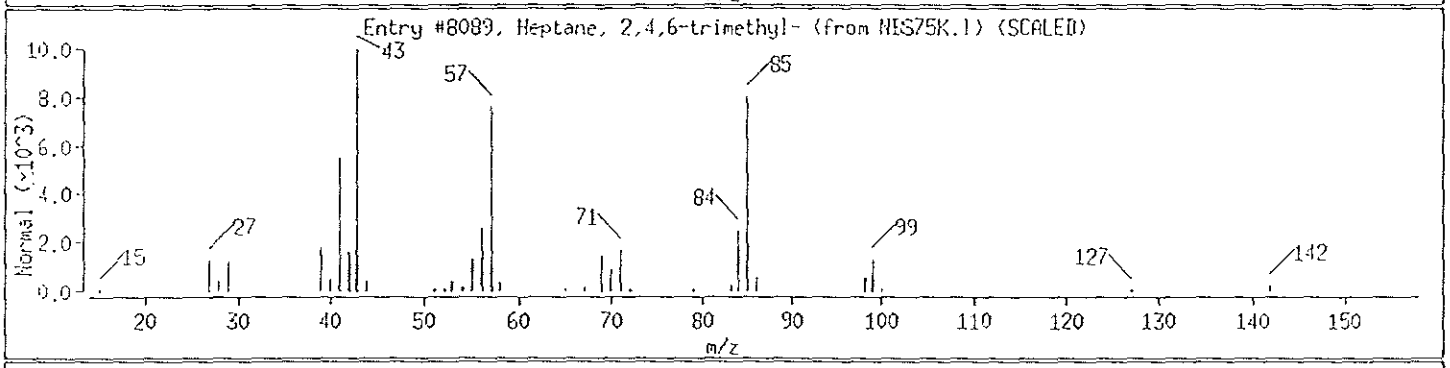
Column phase: J&W DB_624

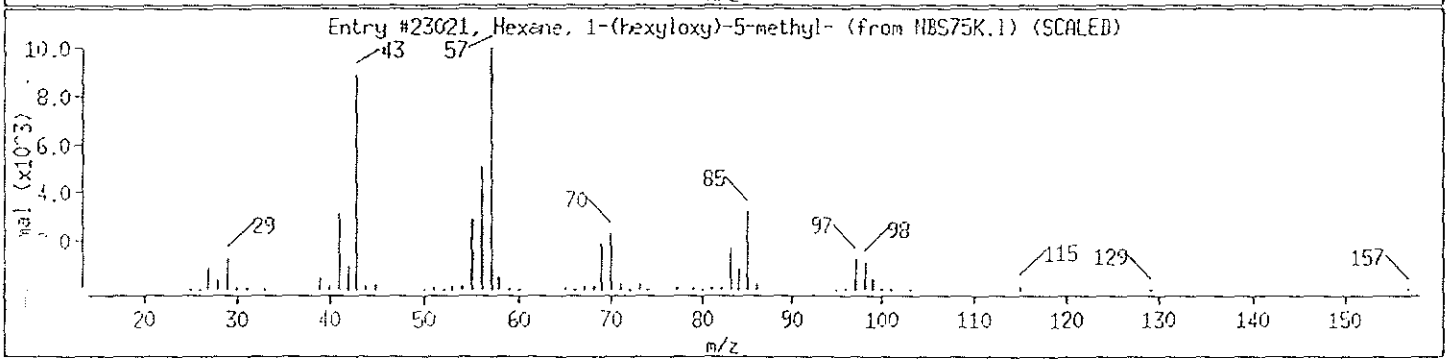
Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonane	111-84-2	NBS75K.l	65144	91	C9H20	128
Heptane, 2,4,6-trimethyl-	2613-61-8	NBS75K.l	8089	64	C10H22	142
Hexane, 1-(hexyloxy)-5-methyl-	74421-19-5	NBS75K.l	23021	53	C13H280	200









Data File: /chem/msc.i/c012296.b/c7980.d

Date : 22-JAN-96 04:36

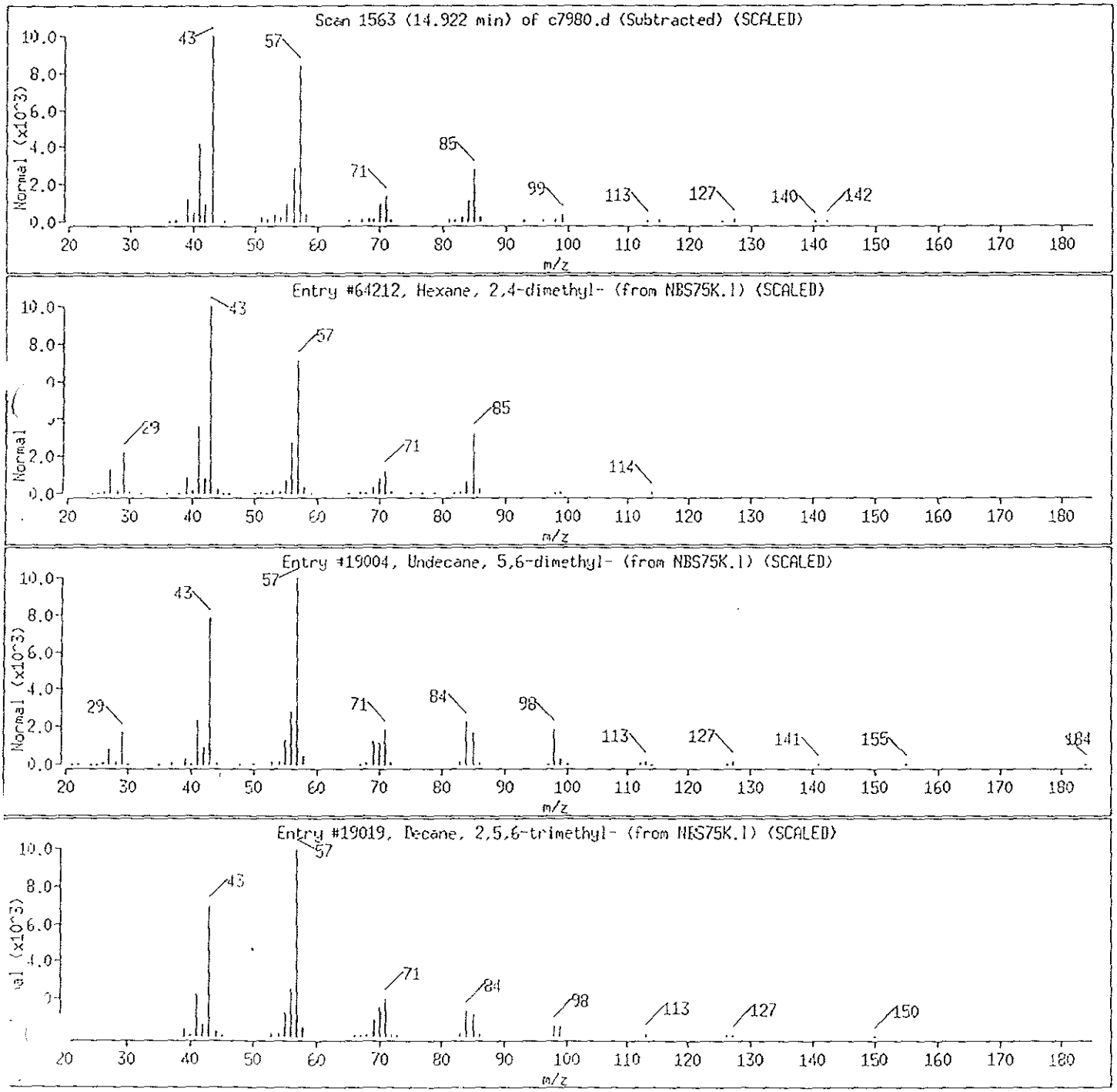
Client ID: 17418n clj78cs001 Instrument: msc.i

Sample Info: 17418n clj78cs001

Purge Volume: 1.0 Operator: jk

Column phase: J&W DB_624 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Hexane, 2,4-dimethyl-	589-43-5	NBS75K.l	64212	83	C6H18	114
Undecane, 5,6-dimethyl-	17615-91-7	NBS75K.l	19004	72	C13H28	184
Decane, 2,5,6-trimethyl-	62108-23-0	NBS75K.l	19019	72	C13H28	184



Data File: /chem/msc.i/c012296.b/c7980.d

Date : 22-JAN-96 04:36

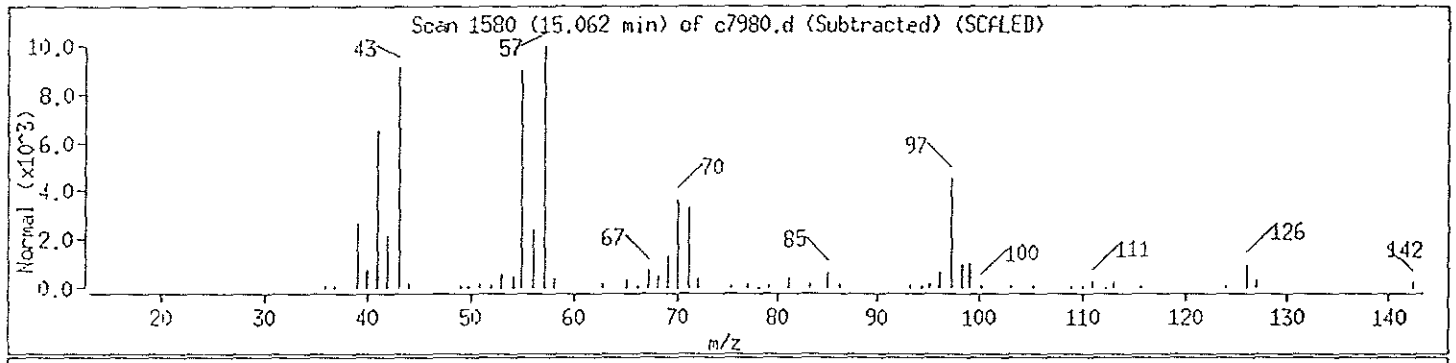
Client ID: 17418n clj78cs001 Instrument: msc.i

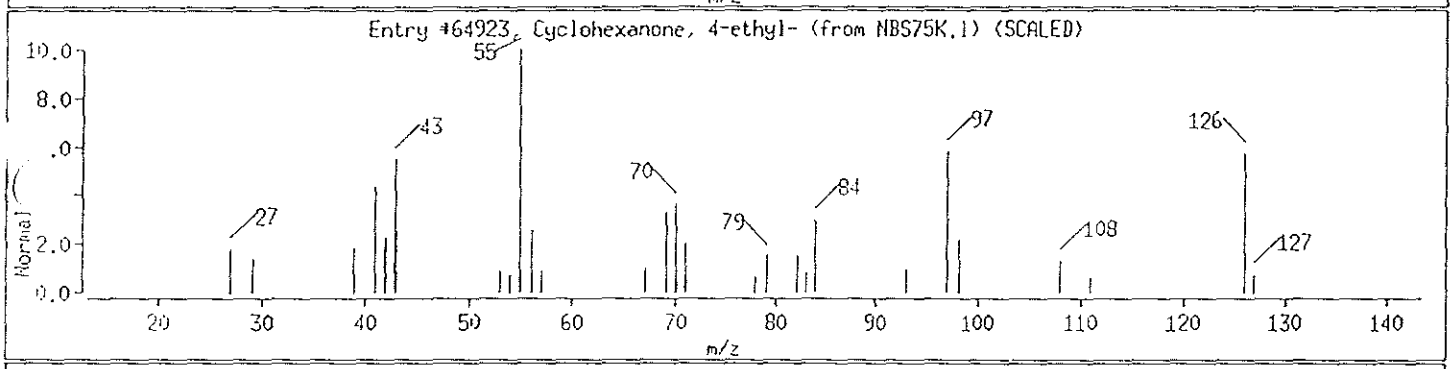
Sample Info: 17418n clj78cs001

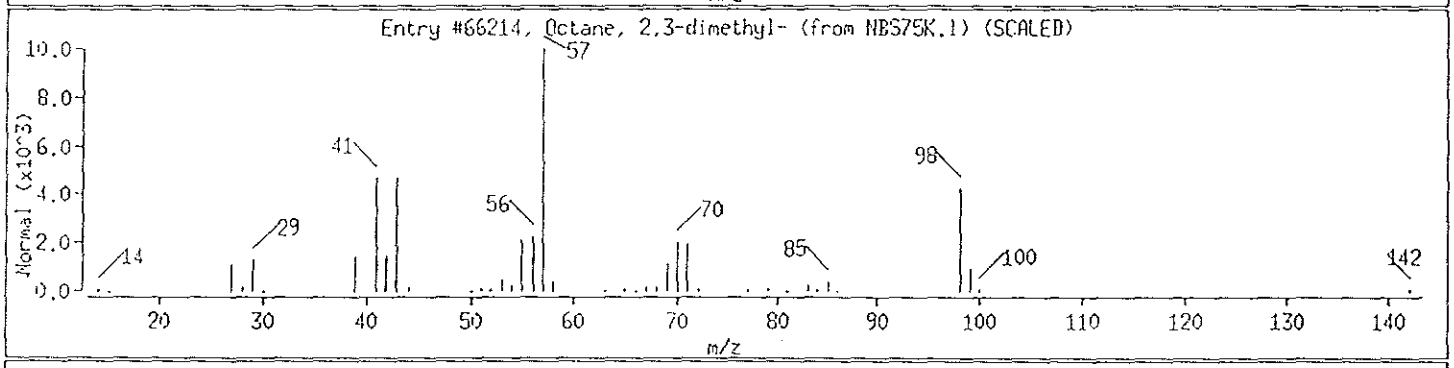
Purge Volume: 1.0 Operator: jk

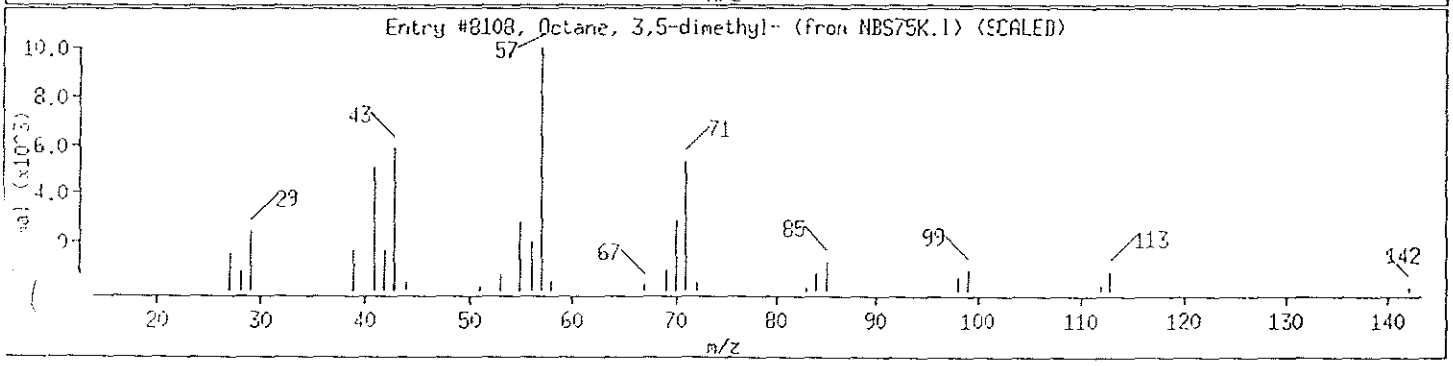
Column phase: J&W DB_624 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexanone, 4-ethyl-	5441-51-0	NBS75K.1	64923	50	C8H14O	126
Octane, 2,3-dimethyl-	7146-60-3	NBS75K.1	66214	49	C10H22	142
Octane, 3,5-dimethyl-	15869-93-9	NBS75K.1	8108	43	C10H22	142









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Date : 22-JAN-96 04:36

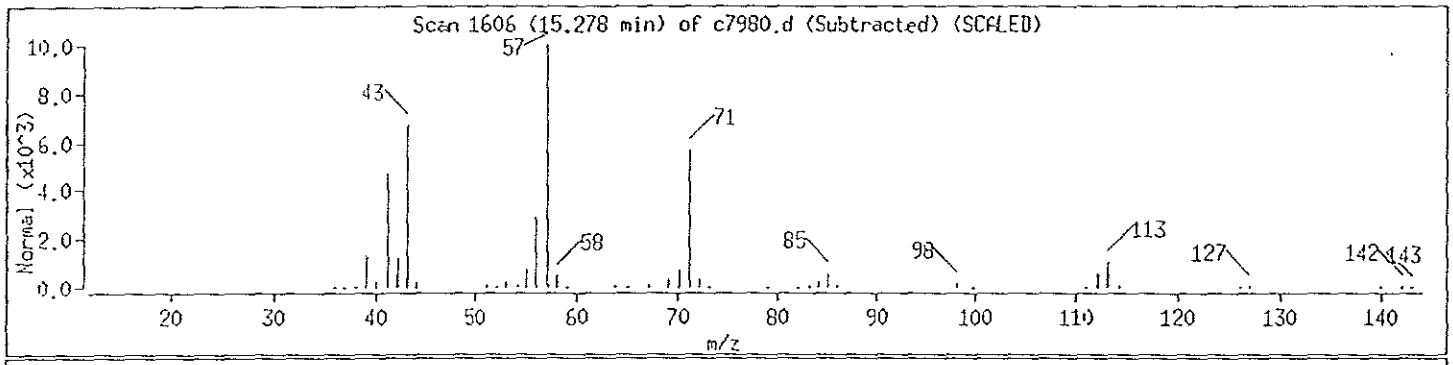
Client ID: 17418n clj78cs001 Instrument: msc.i

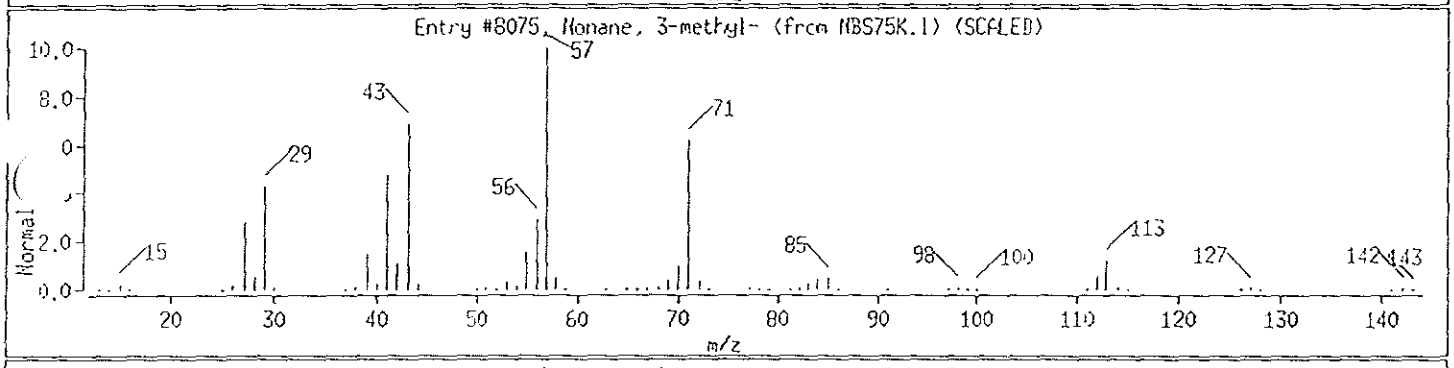
Sample Info: 17418n clj78cs001

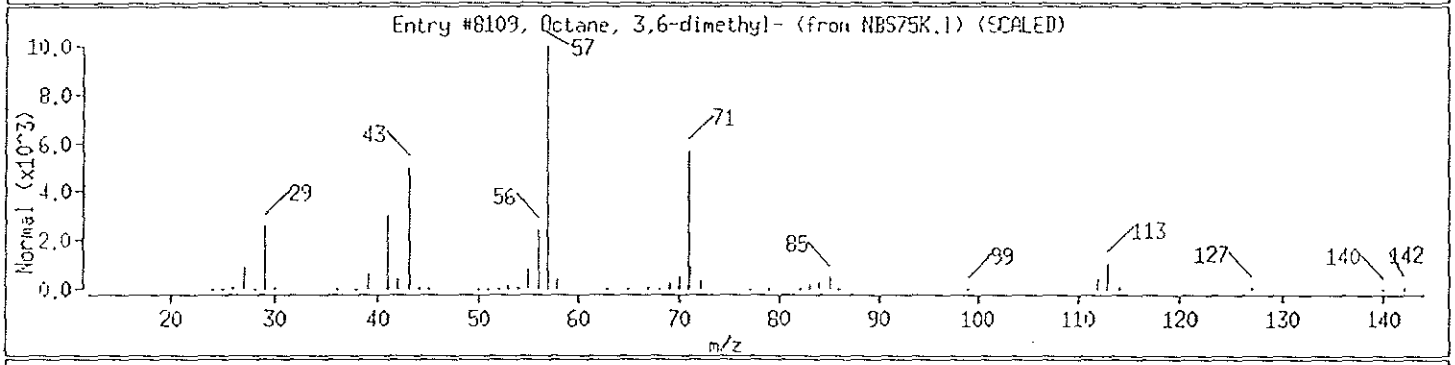
Purge Volume: 1.0 Operator: jk

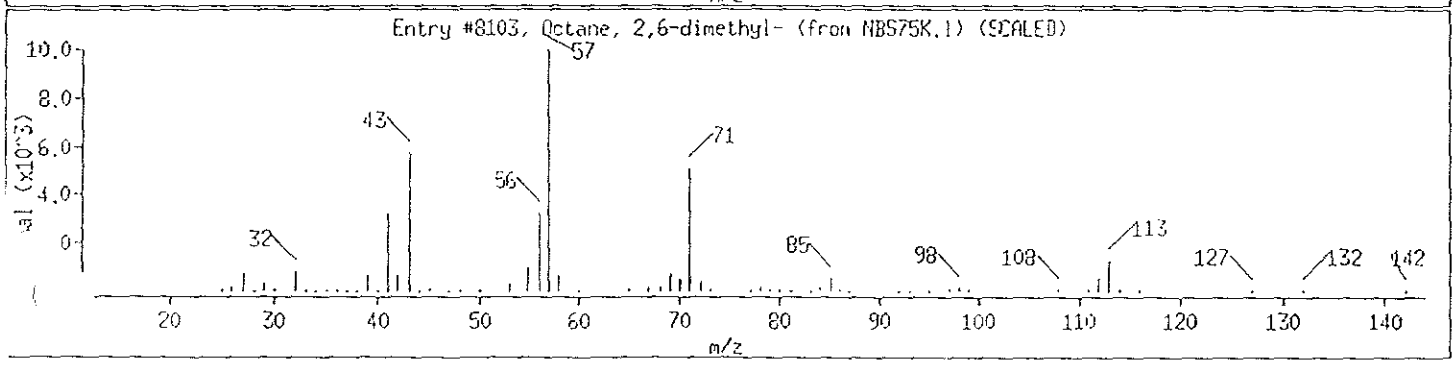
Column phase: J&W DB_624 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonane, 3-methyl-	5911-04-6	NBS75K.1	8075	95	C10H22	142
Octane, 3,6-dimethyl-	15869-94-0	NBS75K.1	8109	90	C10H22	142
Octane, 2,6-dimethyl-	2051-30-1	NBS75K.1	8103	90	C10H22	142









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Date : 22-JAN-96 04:36

Client ID: 17418n clj78cs001

Instrument: msc.i

Sample Info: 17418n clj78cs001

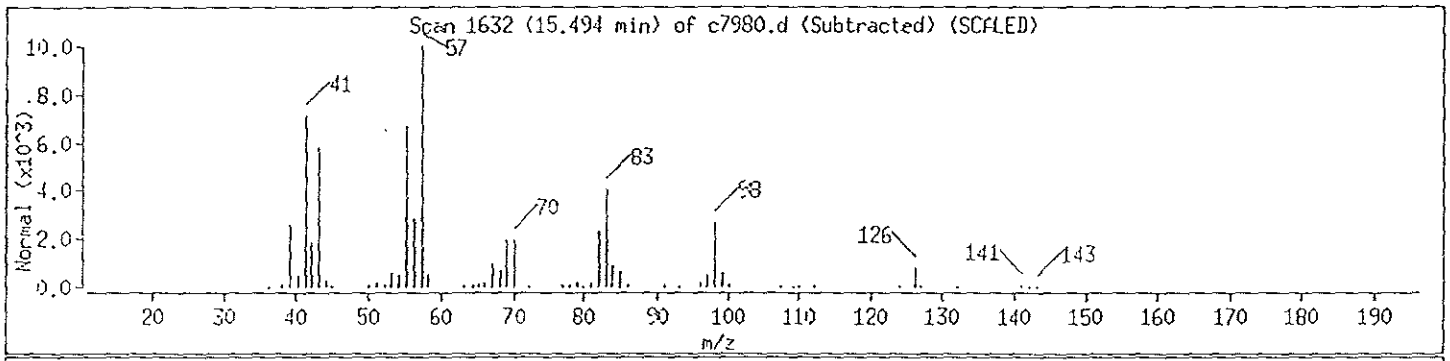
Purge Volume: 1.0

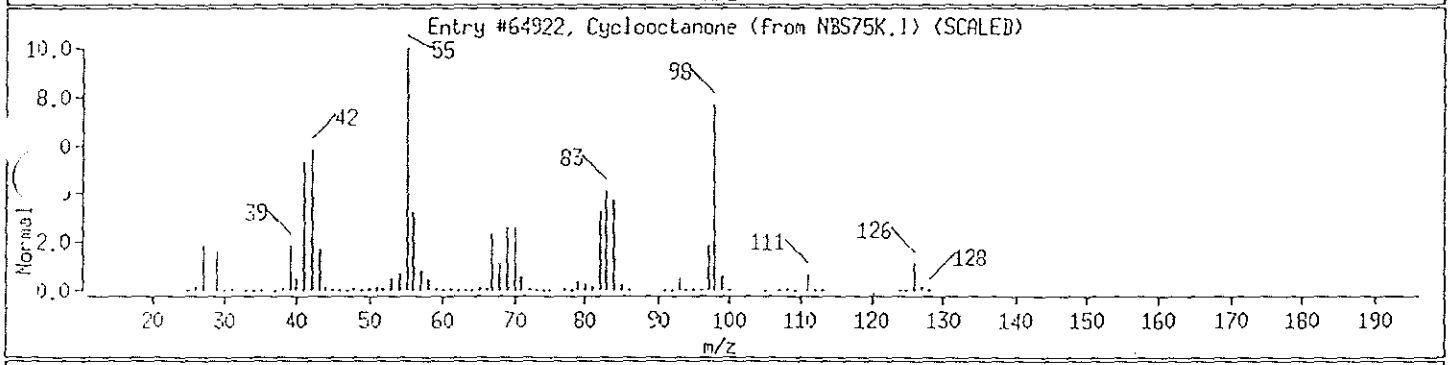
Operator: jk

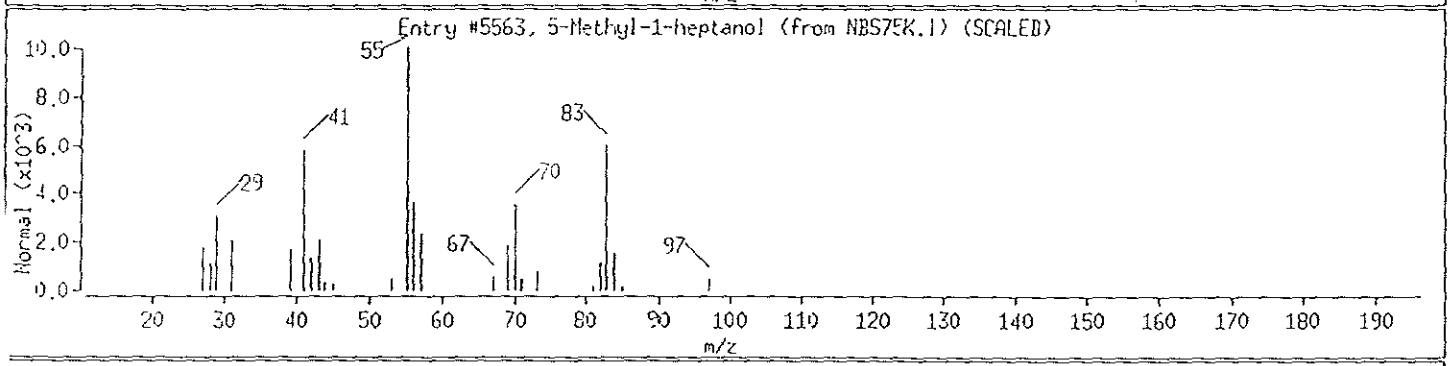
Column phase: J&W DB_624

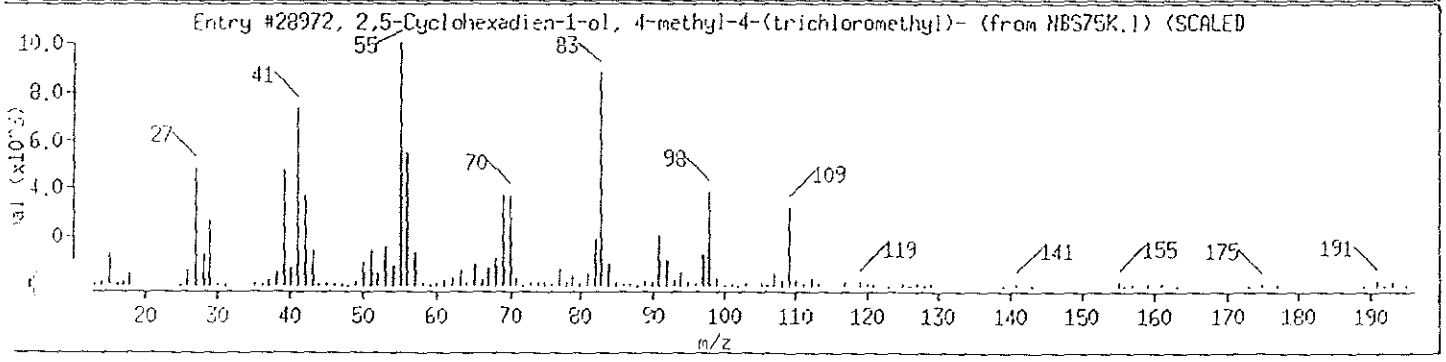
Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclooctanone	502-49-8	NBS75K.l	64922	52	C8H14O	126
5-Methyl-1-heptanol	7212-53-5	NBS75K.l	5563	47	C8H18O	130
2,5-Cyclohexadien-1-ol, 4-methyl-4-(tric	13630-61-0	NBS75K.l	28972	47	C8H9Cl3O	226









Data File: /chem/msc.i/c012296.b/c7980.d

Date : 22-JAN-96 04:36

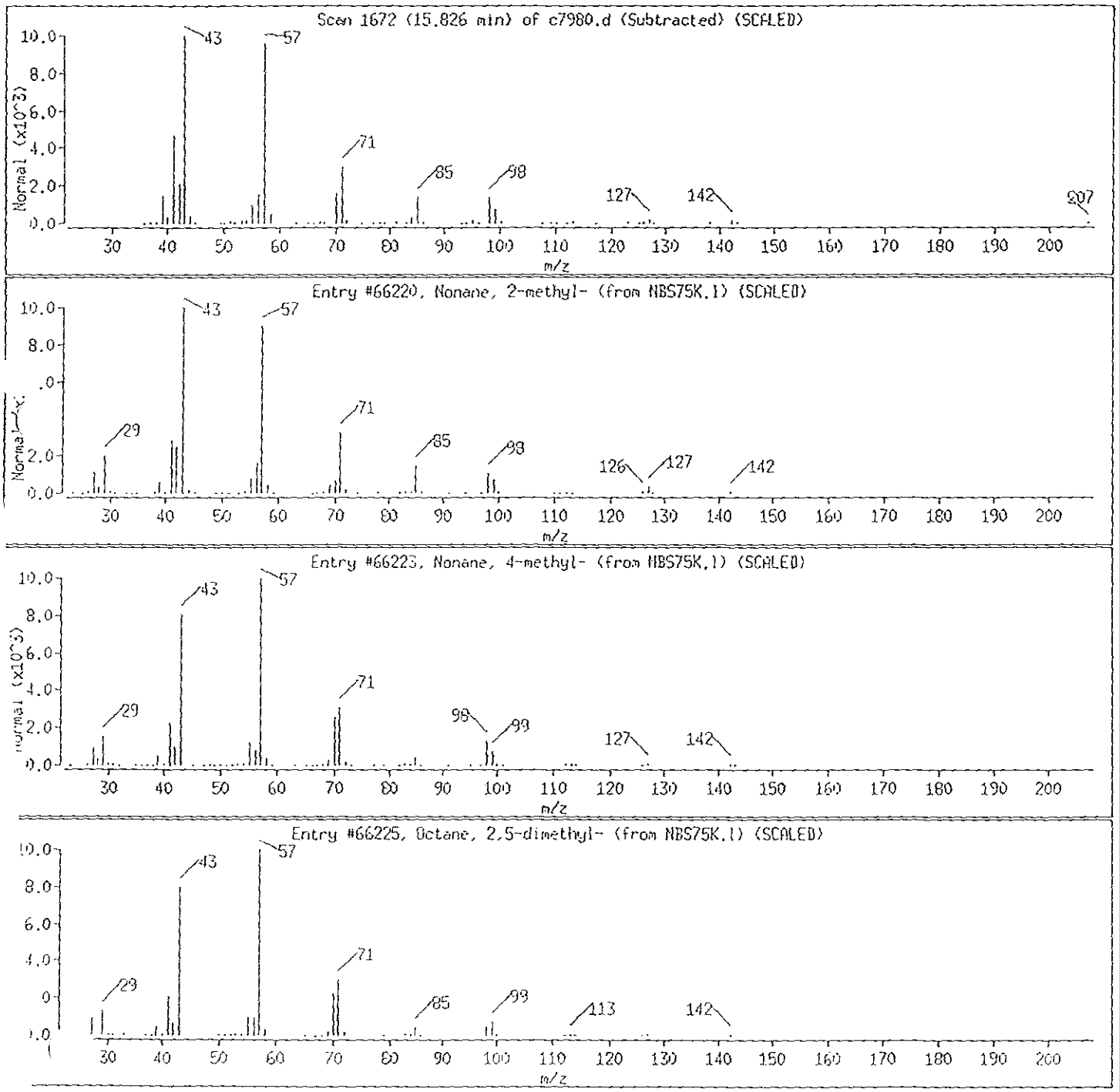
Client ID: 17418n clj78cs001 Instrument: msc.i

Sample Info: 17418n clj78cs001

Purge Volume: 1.0 Operator: jk

Column phase: J&W DB_624 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonane, 2-methyl-	871-83-0	NBS75K.l	66220	83	C10H22	142
Nonane, 4-methyl-	17301-94-9	NBS75K.l	66223	72	C10H22	142
Octane, 2,5-dimethyl-	15869-89-3	NBS75K.l	66225	64	C10H22	142



Data File: /chem/msc.i/c012296.b/c7980.d

Date : 22-JAN-96 04:36

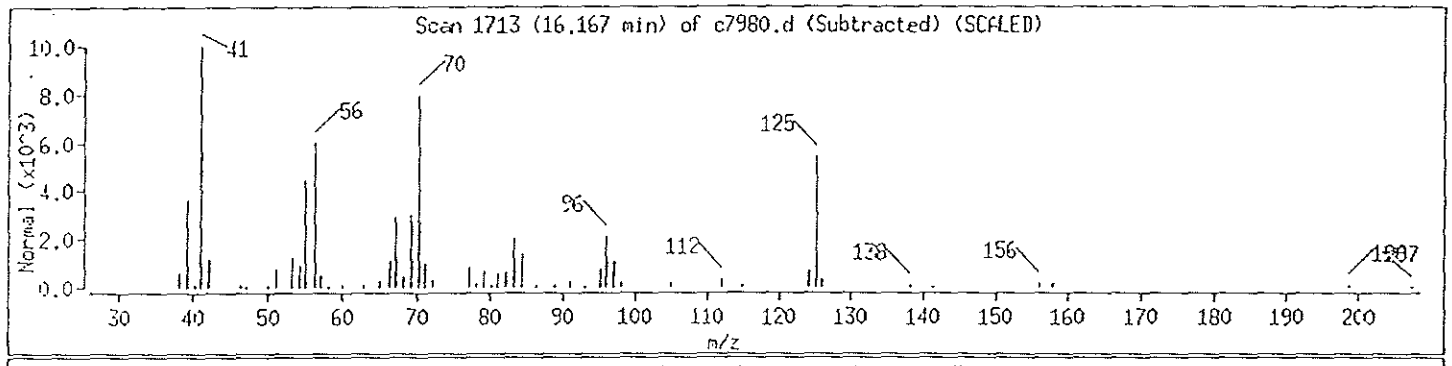
Client ID: 17418n clj78cs001 Instrument: msc.i

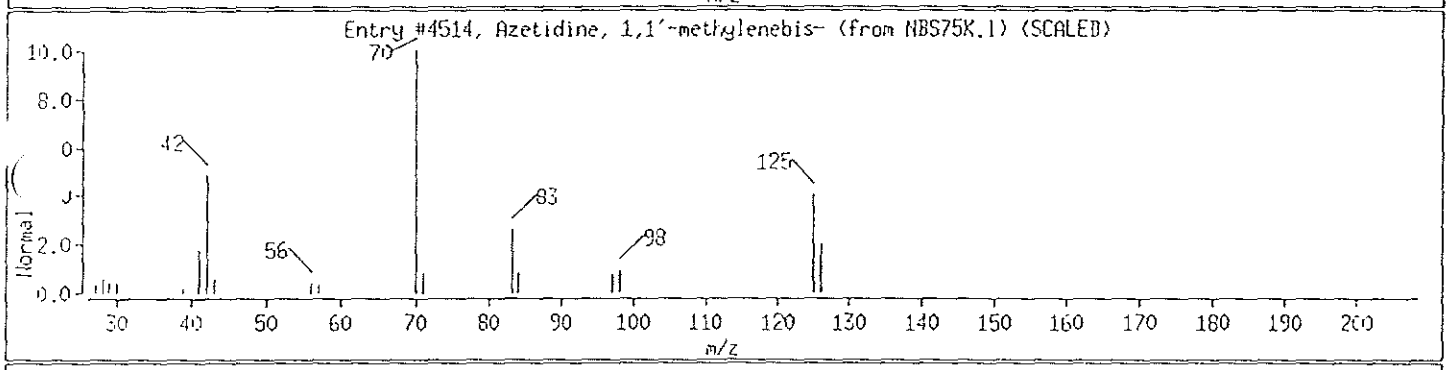
Sample Info: 17418n clj78cs001

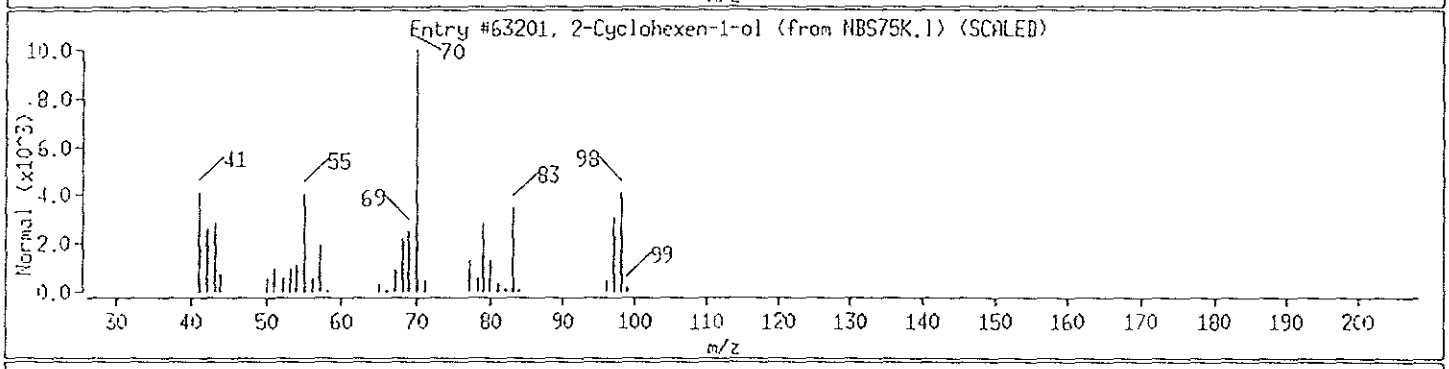
Purge Volume: 1.0 Operator: jk

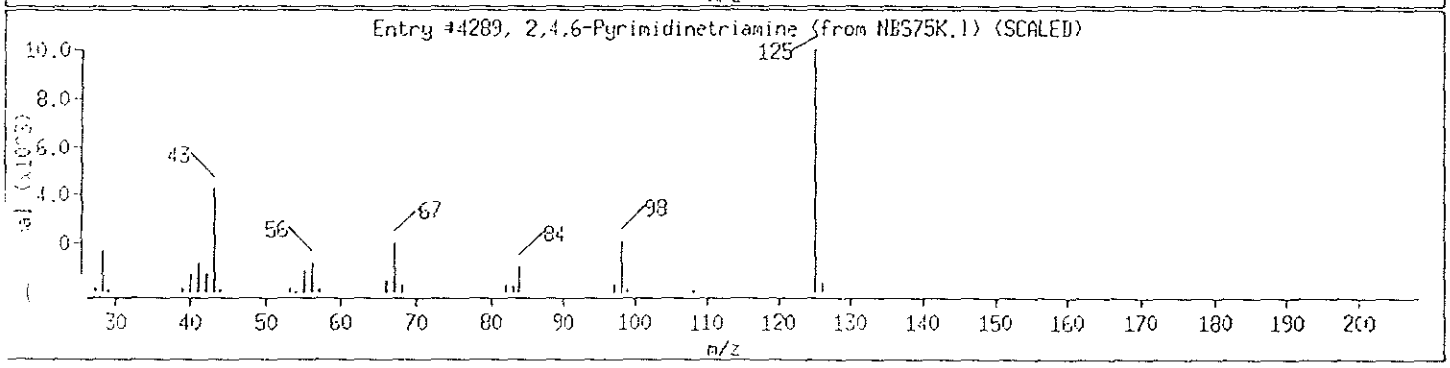
Column phase: J&W DB_624 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Azetidine, 1,1'-methylenebis-	38455-24-2	NBS75K.l	4514	38	C7H14N2	126
2-Cyclohexen-1-ol	822-67-3	NBS75K.l	63201	27	C6H10O	98
2,4,6-Pyrimidinetriamine	1004-38-2	NBS75K.l	4289	22	C4H7N5	125









Data File: /chem/msc.i/c012296.b/c7980.d

Date : 22-JAN-96 04:36

Client ID: 17418n clj78cs001

Instrument: msc.i

Sample Info: 17418n clj78cs001

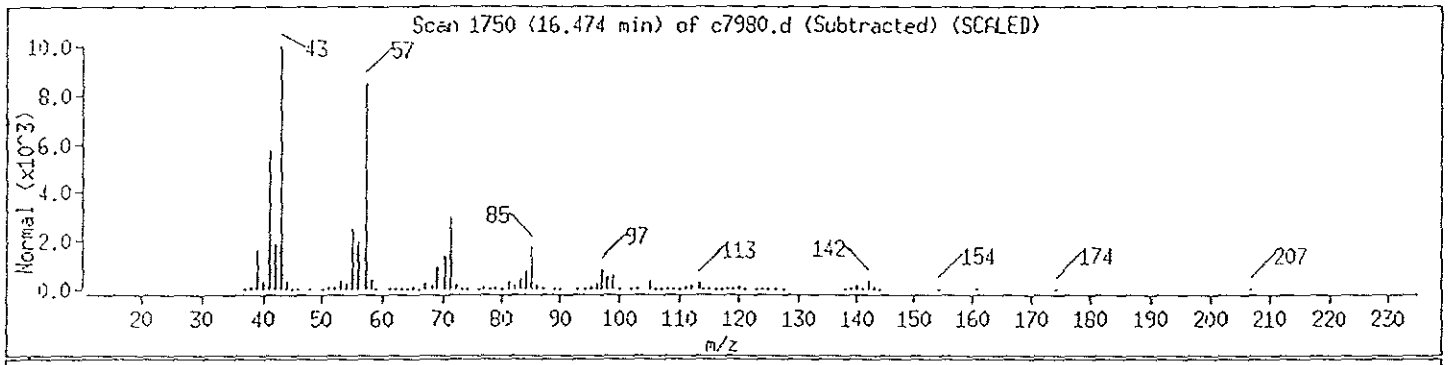
Purge Volume: 1.0

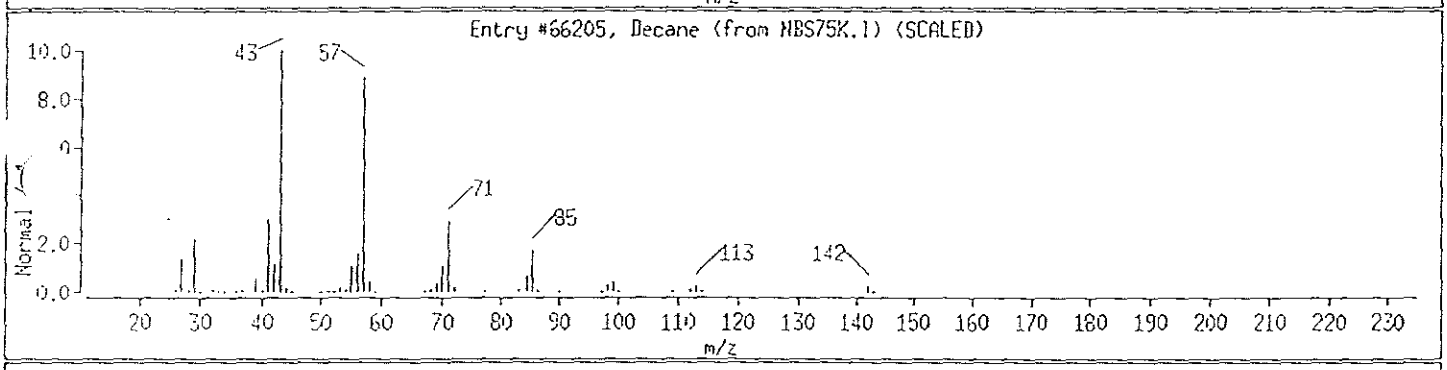
Operator: jk

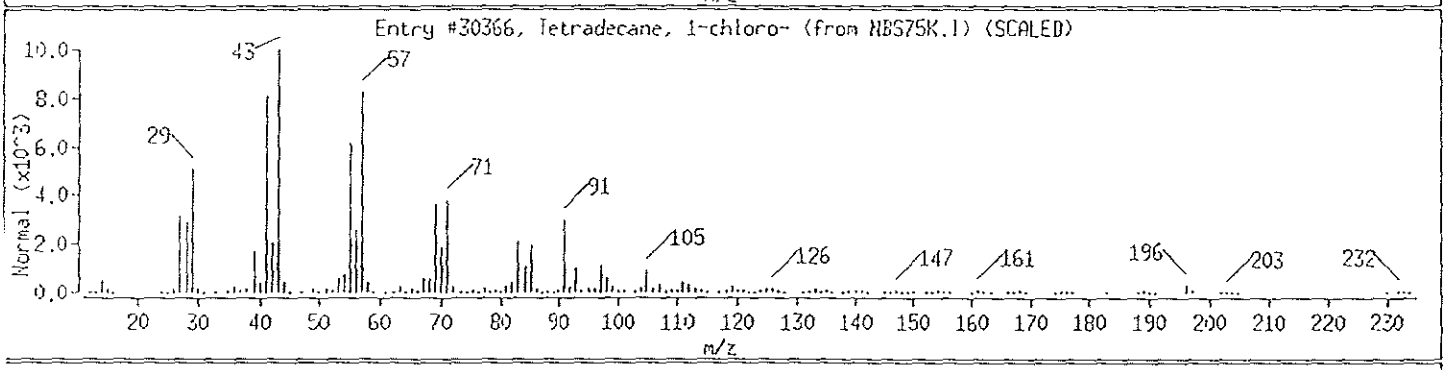
Column phase: J&W DB_624

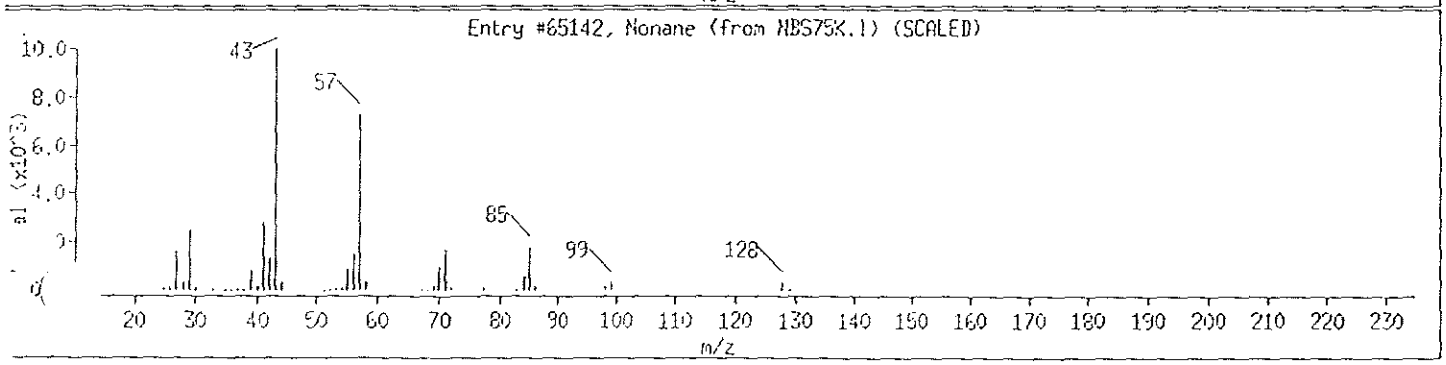
Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decane	124-18-5	NBS75K.l	66205	94	C10H22	142
Tetradecane, 1-chloro-	2425-54-9	NBS75K.l	30366	86	C14H29Cl	232
Nonane	111-84-2	NBS75K.l	65142	59	C9H20	128









Data File: /chem/msc.i/c012296.b/c7980.d

Date : 22-JAN-96 04:36

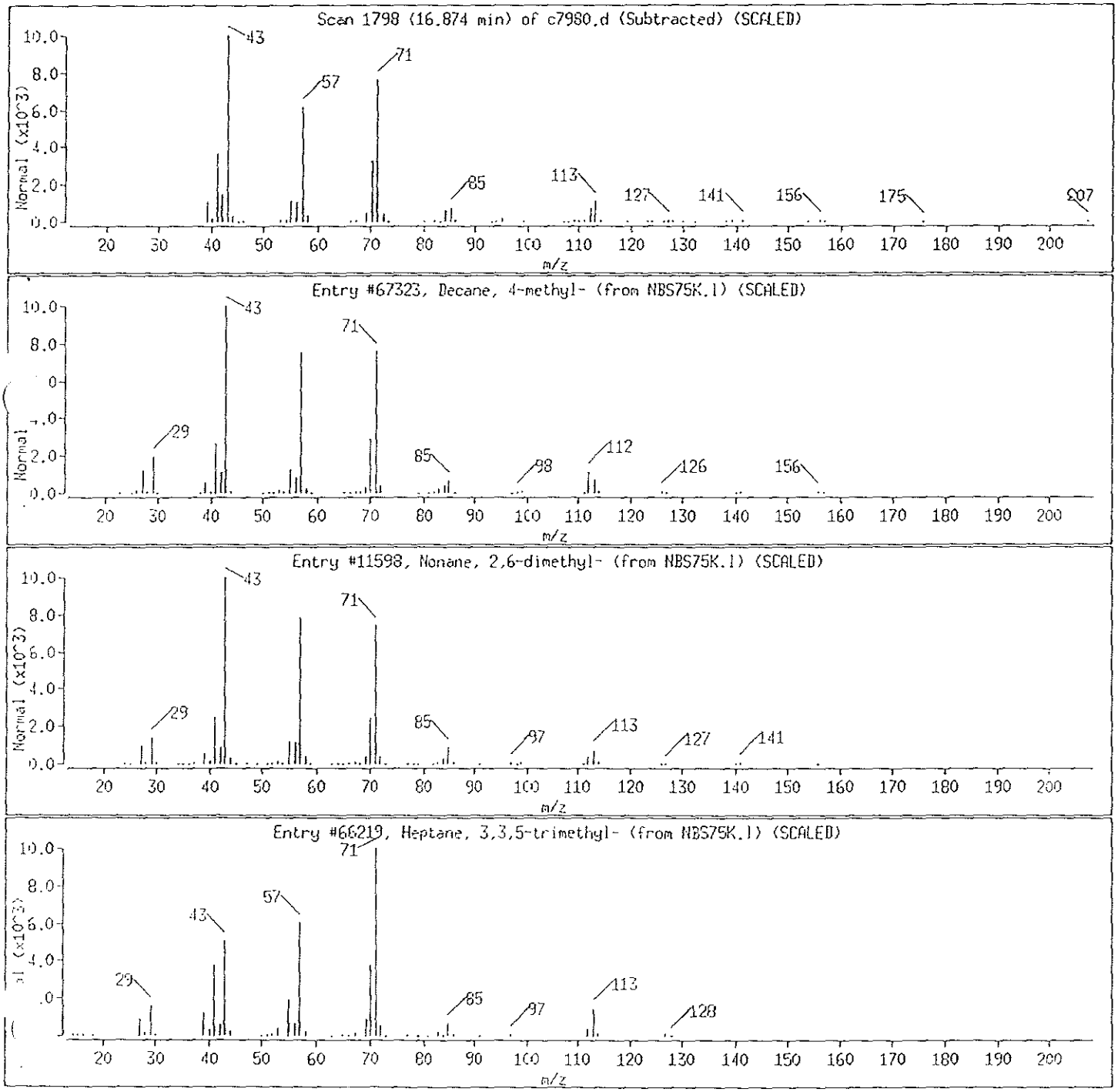
Client ID: 17418n clj78cs001 Instrument: msc.i

Sample Info: 17418n clj78cs001

Purge Volume: 1.0 Operator: jk

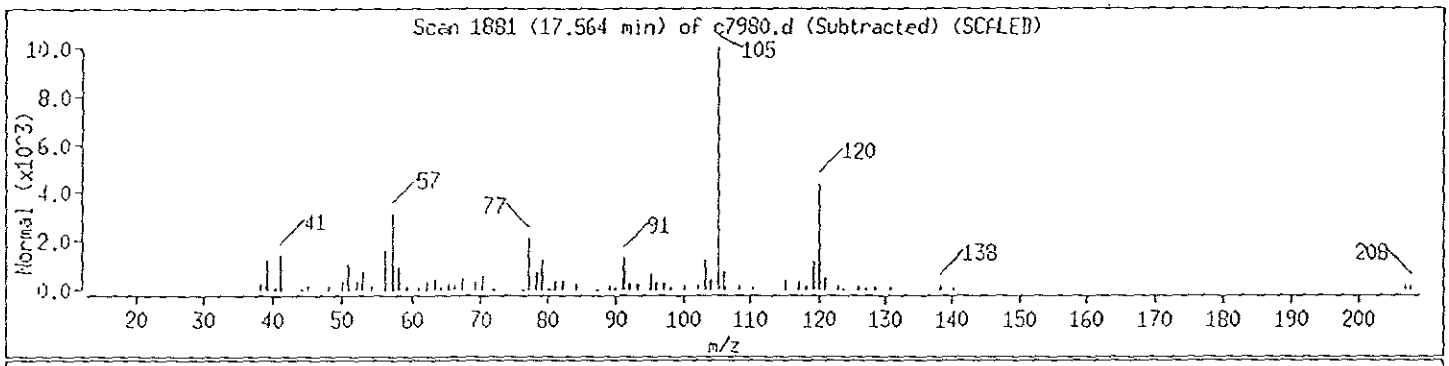
Column phase: J&W DB_624 Column diameter: 0.53

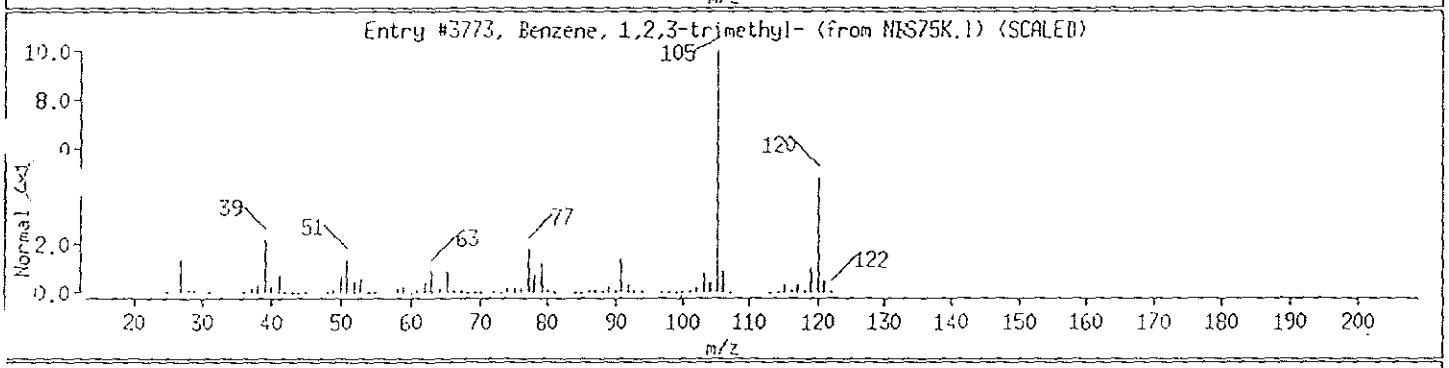
Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decane, 4-methyl-	2847-72-5	NBS75K.l	67323	91	C11H24	156
Nonane, 2,6-dimethyl-	17302-28-2	NBS75K.l	11598	90	C11H24	156
Heptane, 3,3,5-trimethyl-	7154-80-5	NBS75K.l	66219	78	C10H22	142

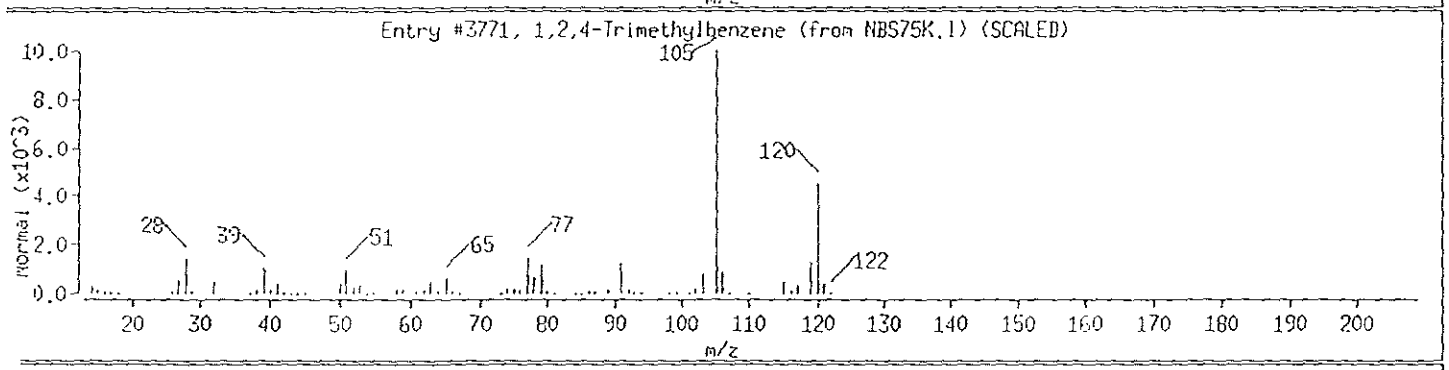


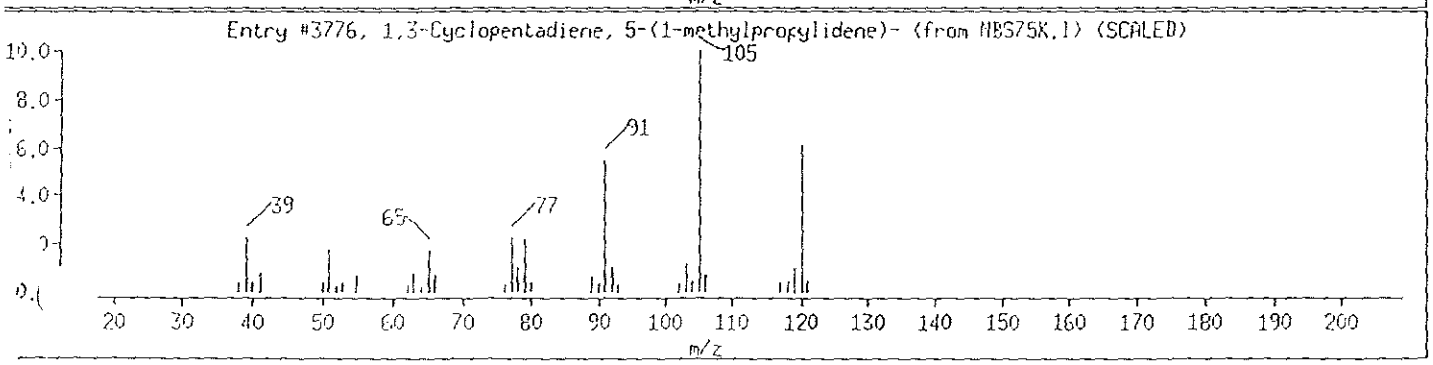
Data File: /chem/msc.i/c012296.b/c7980.d
Date : 22-JAN-96 04:36
Client ID: 17418n clj78cs001 Instrument: msc.i
Sample Info: 17418n clj78cs001
Purge Volume: 1.0 Operator: jk
Column phase: J&W DB_624 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1,2,3-trimethyl-	526-73-8	NBS75K.1	3773	94	C9H12	120
1,2,4-Trimethylbenzene	95-36-3	NBS75K.1	3771	94	C9H12	120
1,3-Cyclopentadiene, 5-(1-methylpropylid	3141-02-4	NBS75K.1	3776	91	C9H12	120









1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

0043

EPA SAMPLE NO.

CLJ78CS002

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2492V

Sample wt/vol: 2.87 (g/mL) G Lab File ID: C7979

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: not dec. 15 Date Analyzed: 01/22/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	7	J
67-64-1	Acetone	43	
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	54	
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	13	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	Methyl-iso-butyl ketone	21	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethylene	130	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	20	
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0044

EPA SAMPLE NO.

CLJ78CS002

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2492V

Sample wt/vol: 2.87 (g/mL) G Lab File ID: C7979

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: not dec. 15 Date Analyzed: 01/22/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

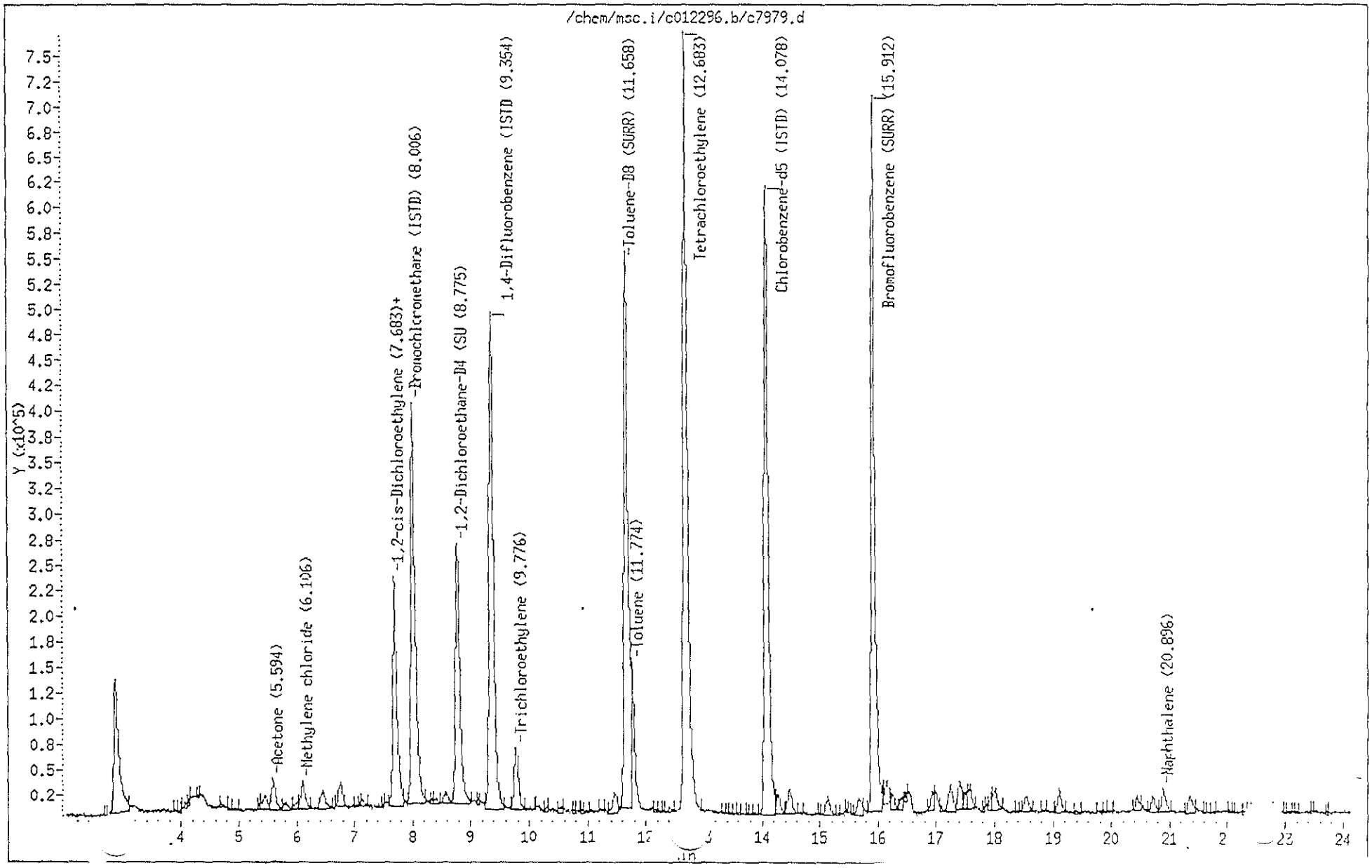
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0045

Data File: /chem/msc.i/c012296.b/c7979.d
Date : 22-JAN-96 04:04
Client ID:
Sample Info: 17418n clj78cs002
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i

Operator: jk
Column diameter: 0.53



OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240 & Screen

Data file : /chem/msc.i/c012296.b/c7979.d
Lab Smp Id:
Inj Date : 22-JAN-96 04:04
Operator : jk Inst ID: msc.i
Smp Info : 17418n clj78cs002
Misc Info : jp2492v,n2v4913,m2,5000,1,2.87,5.0,960122
Comment :
Method : /chem/msc.i/c012296.b/012196_heatc.m
Meth Date : 22-Jan-1996 04:32 glenn Quant Type: ISTD
Cal Date : 22-JAN-96 00:58 Cal File: c7974.d
Als bottle: 10
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

1/22/96

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	Acetone	43.00	5.602	5.609	(0.699)	100072	20.8	20.8
	Methylene chloride	84.00	6.114	6.064	(0.763)	22502	3.53	3.53
	1,2-cis-Dichloroethylene	96.00	7.683	7.661	(0.959)	167777	26.3	26.3 (QM)
* 22	Bromochloromethane (ISTD)	128.00	8.014	7.976	(1.000)	211077	50.0	
$ 27	1,2-Dichloroethane-D4 (SURR)	65.00	8.767	8.756	(1.094)	430358	48.6	48.6
* 30	1,4-Difluorobenzene (ISTD)	114.00	9.354	9.328	(1.000)	795113	50.0	
31	Trichloroethylene	130.00	9.785	9.750	(1.045)	48345	6.48	6.48 (QM)
$ 38	Toluene-D8 (SURR)	98.00	11.658	11.637	(0.828)	811156	50.4	50.4
39	Toluene	91.00	11.774	11.754	(0.836)	185782	9.87	9.87 (QM)
42	Tetrachloroethylene	164.00	12.691	12.665	(0.901)	449737	61.5	61.5
* 47	Chlorobenzene-d5 (ISTD)	117.00	14.078	14.072	(1.000)	710884	50.0	
$ 56	Bromofluorobenzene (SURR)	95.00	15.912	15.921	(1.130)	680065	45.8	45.8
75	Naphthalene	128.00	20.896	20.891	(1.484)	43708	1.56	1.56

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: /chem/msc.i/c012296.b/c7979.d

Date : 22-JAN-96 04:04

Client ID:

Instrument: msc.i

Sample Info: 17418n clj78cs002

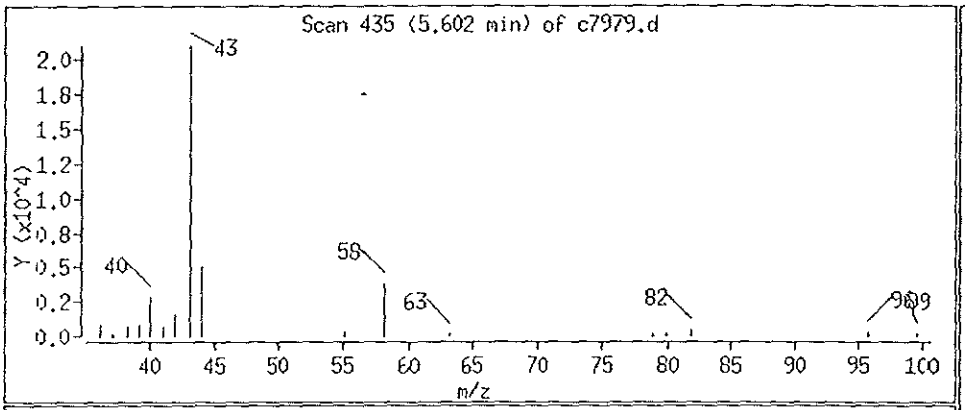
Purge Volume: 1.0

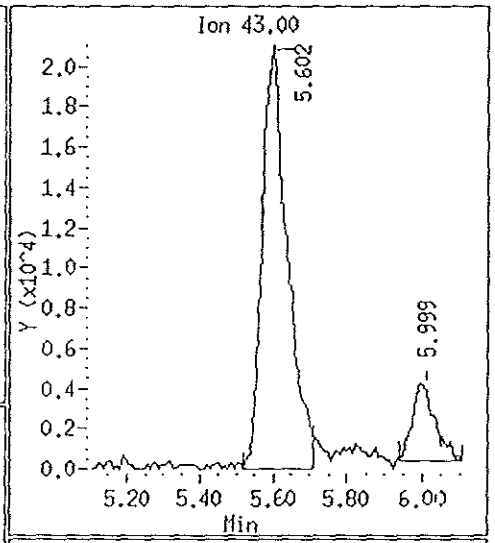
Operator: jk

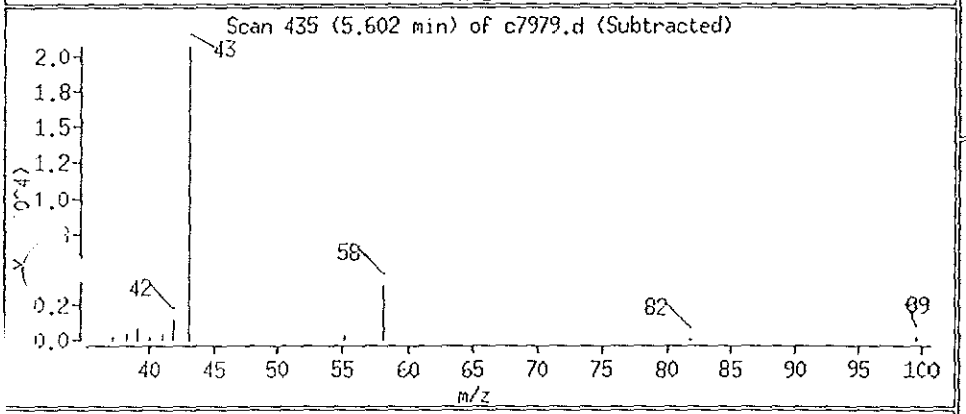
Column phase: J&W DB_624

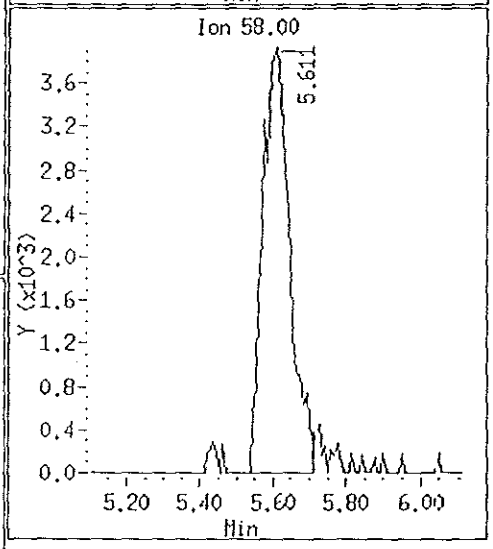
Column diameter: 0.53

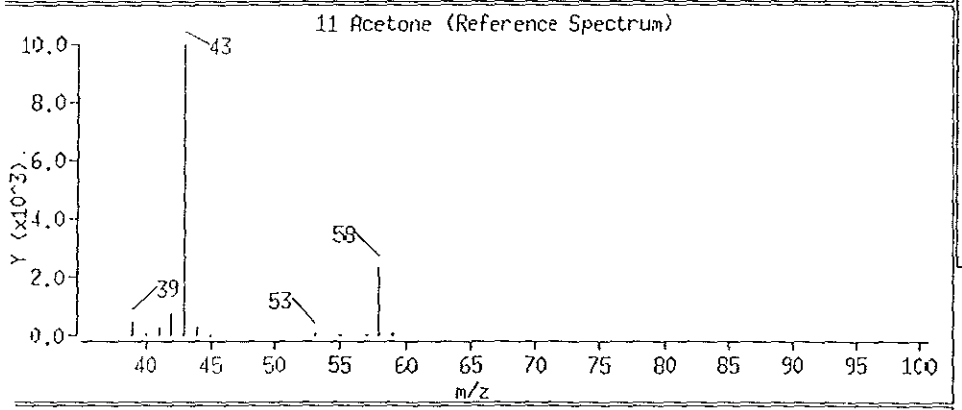
11 Acetone

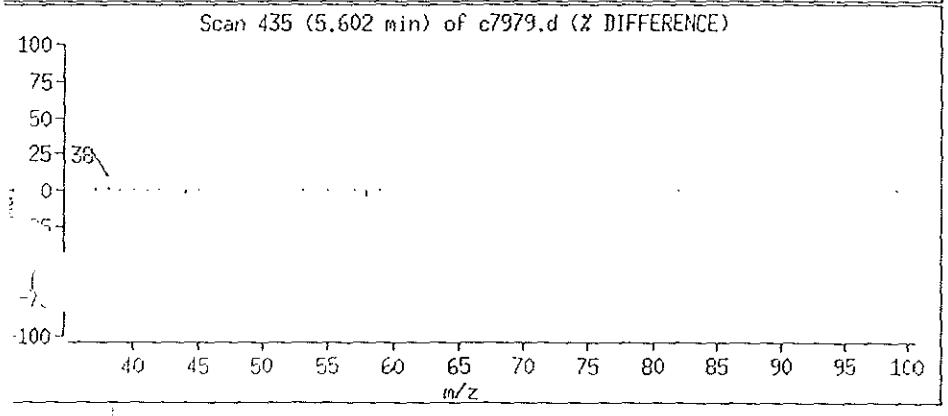












Data File: /chem/msc.i/c012296.b/c7979.d

Date : 22-JAN-96 04:04

Client ID:

Instrument: msc.i

mple Info: 17418n clj78cs002

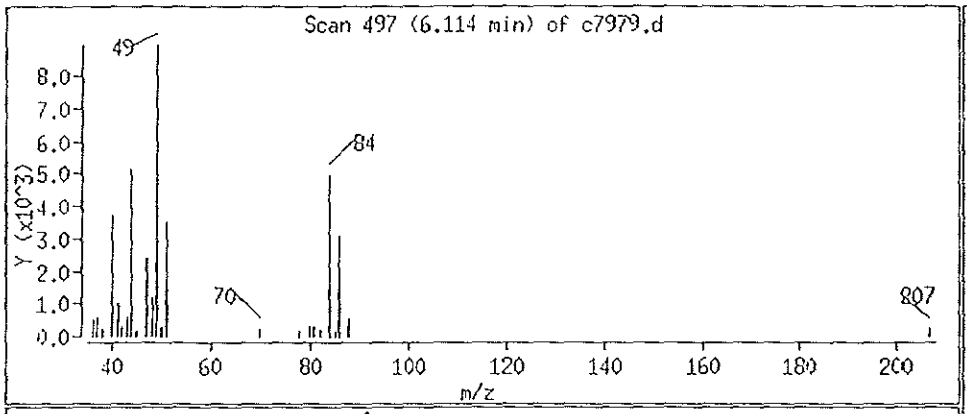
Purge Volume: 1.0

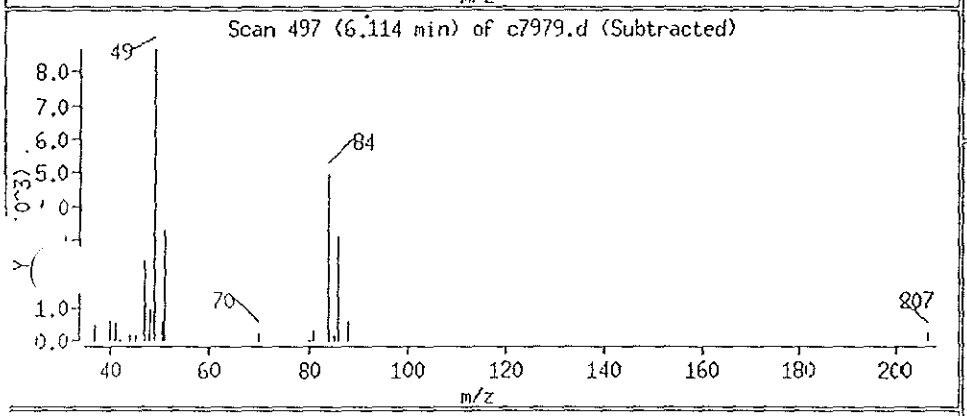
Operator: jk

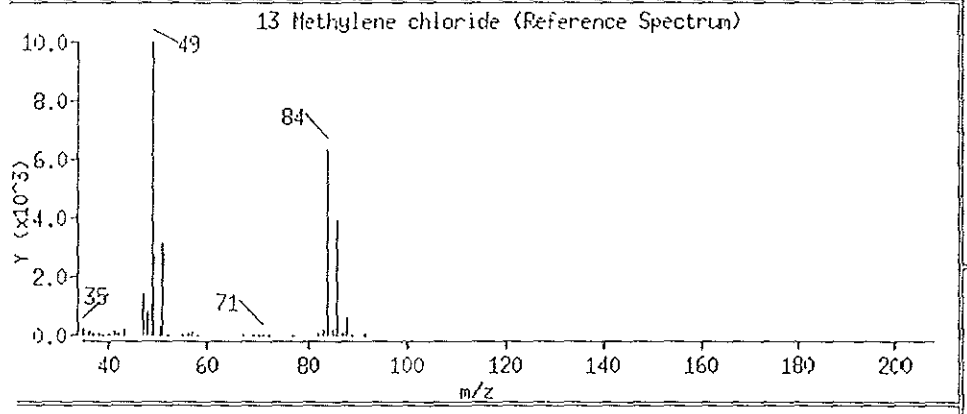
Column phase: J&W DB_624

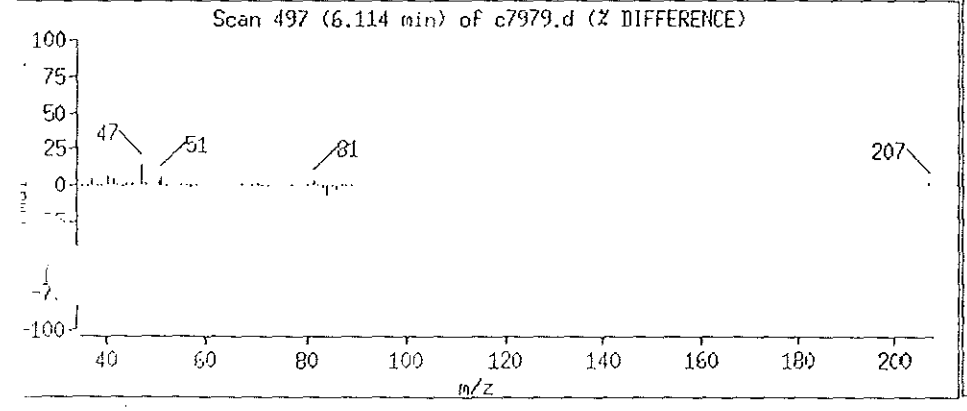
Column diameter: 0.53

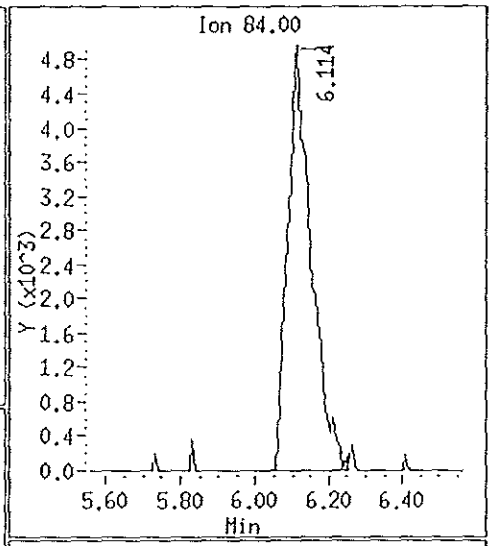
13 Methylene chloride

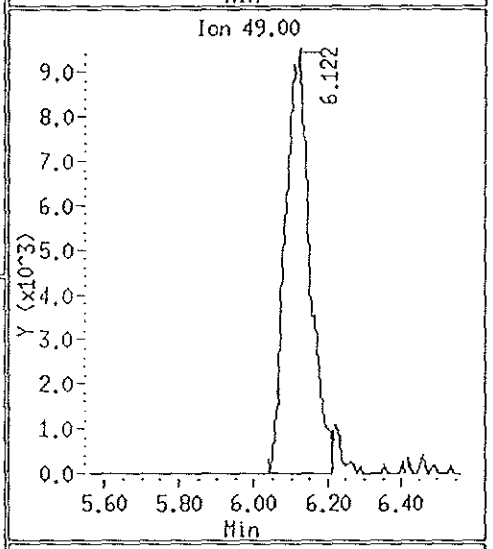


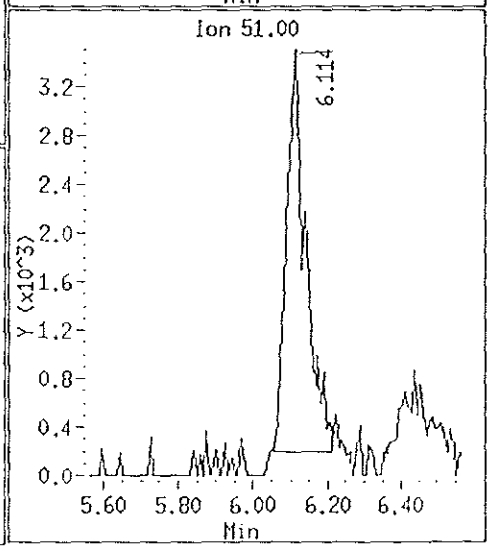












Data File: /chem/msc.i/c012296.b/c7979.d

Date : 22-JAN-96 04:04

Client ID:

Instrument: msc.i

ample Info: 17418n clj78cs002

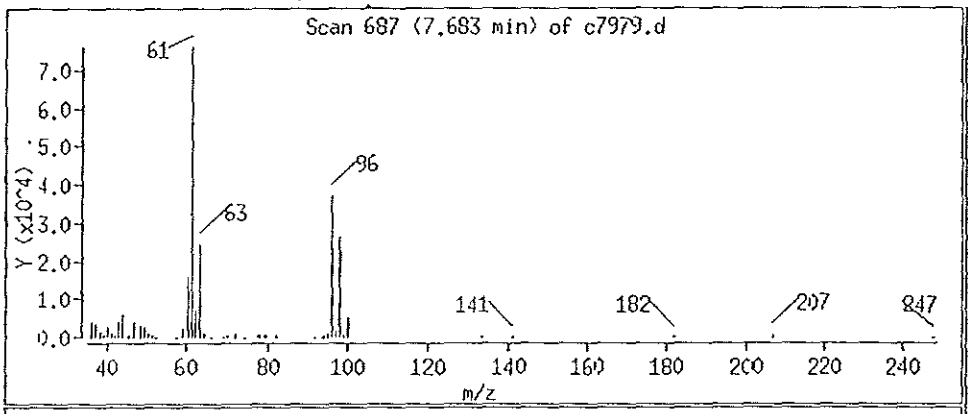
Purge Volume: 1.0

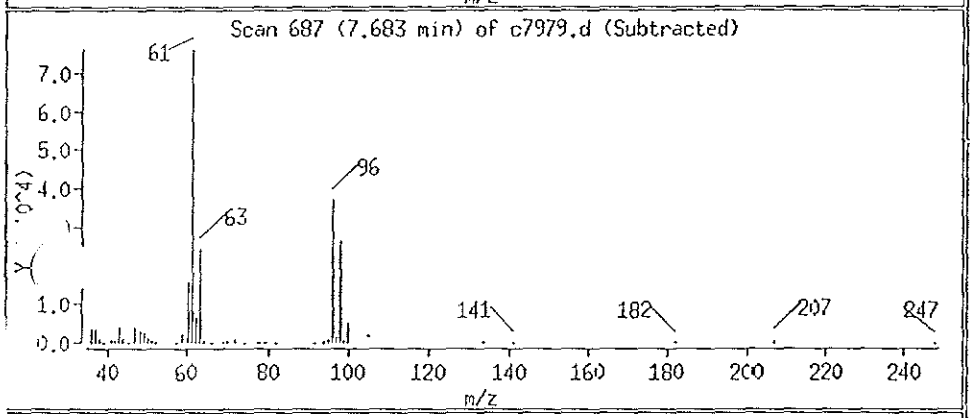
Operator: jk

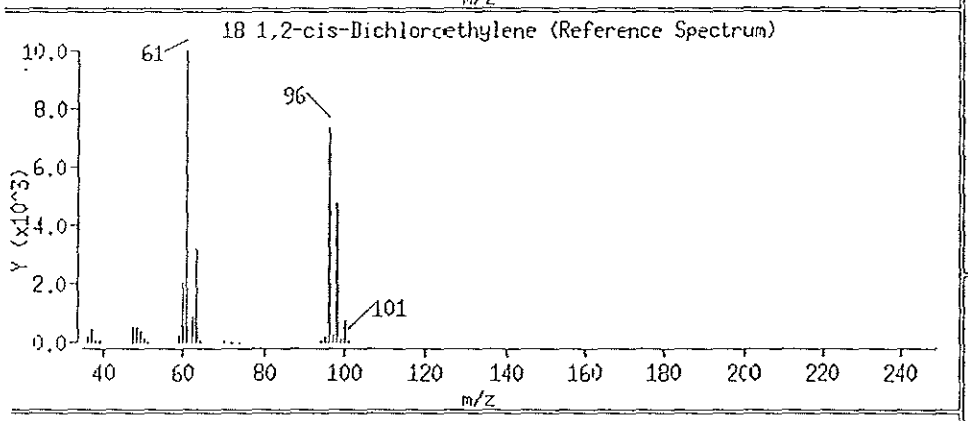
Column phase: J&W DB_624

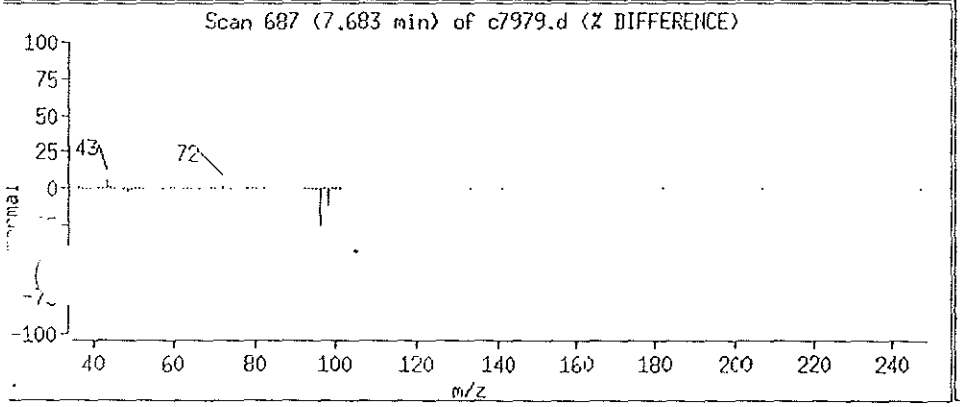
Column diameter: 0.53

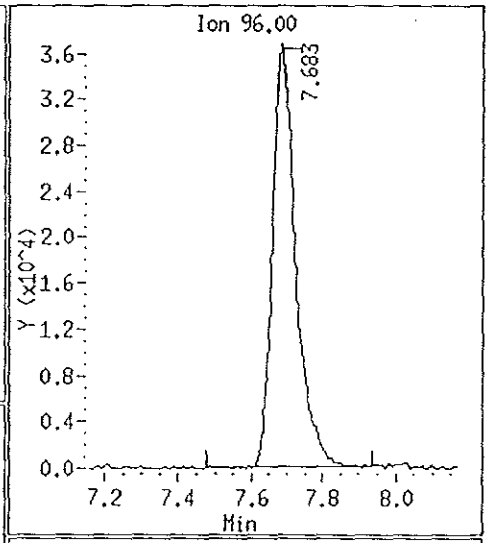
18 1,2-cis-Dichlorcethylene

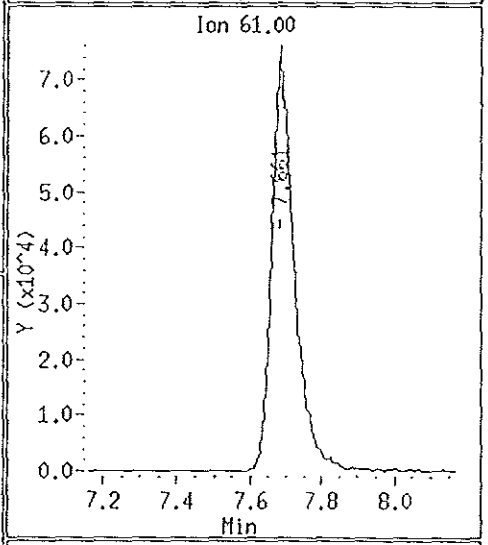


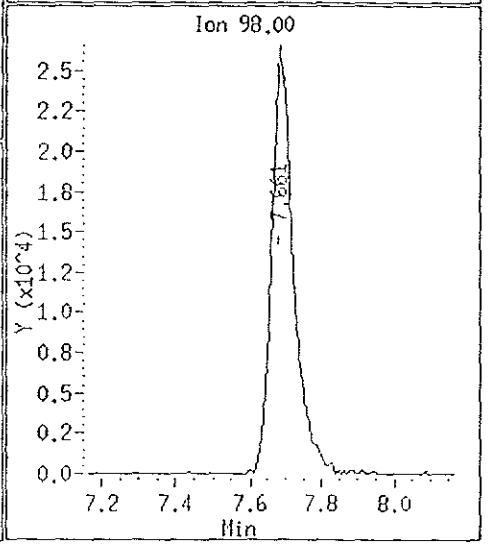












Data File: /chem/msc.i/c012296.b/c7979.d

Date : 22-JAN-96 04:04

Client ID:

Instrument: msc.i

Sample Info: 17418n clj78cs002

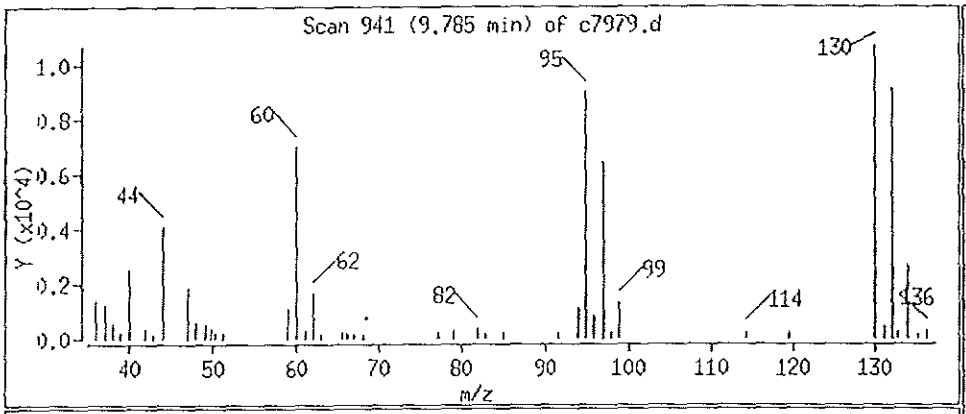
Purge Volume: 1.0

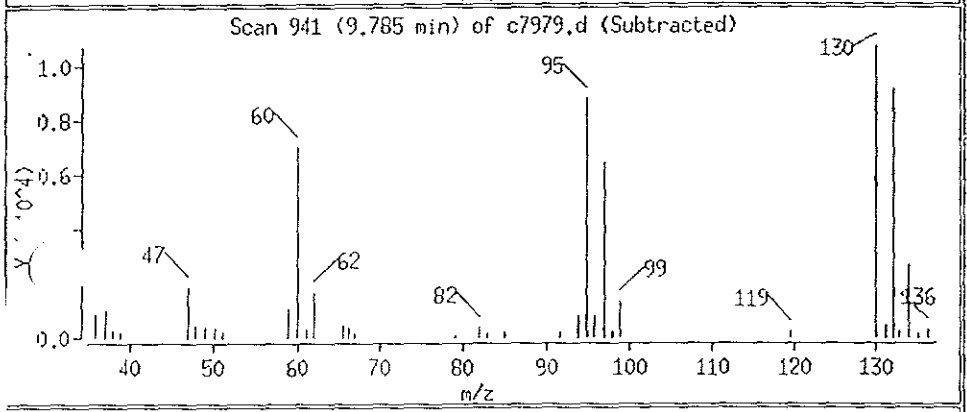
Operator: jk

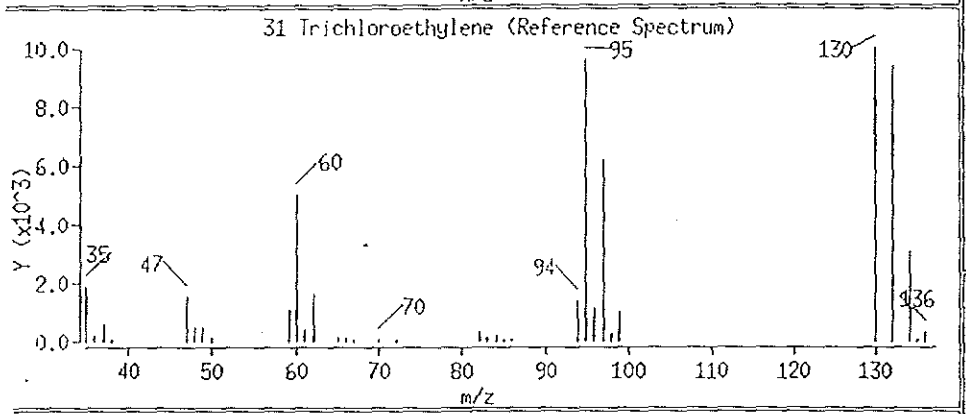
Column phase: J&W DB_624

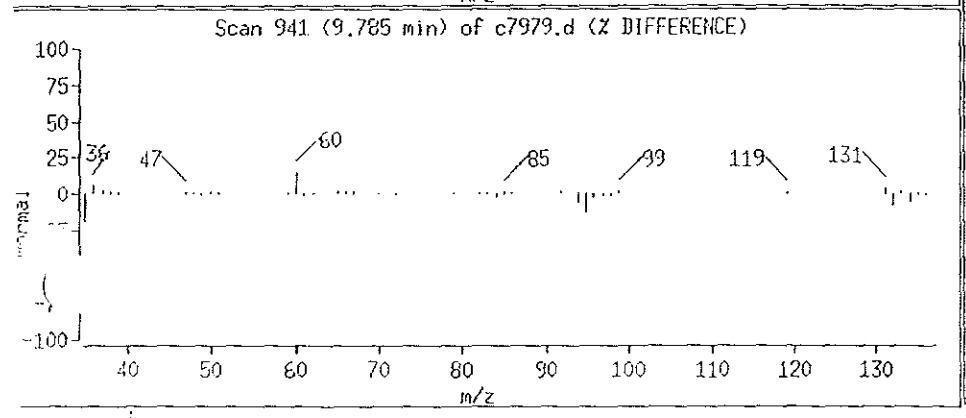
Column diameter: 0.53

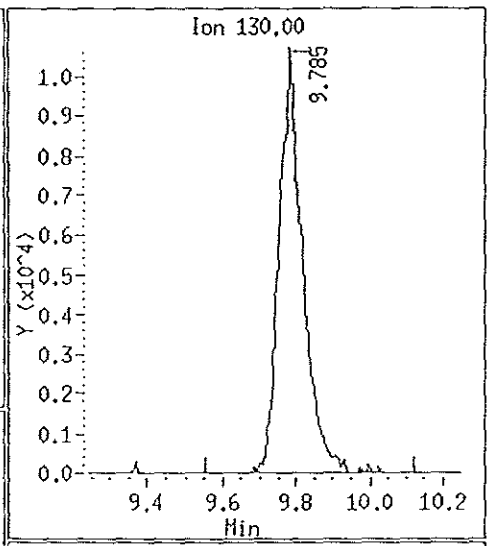
31 Trichloroethylene

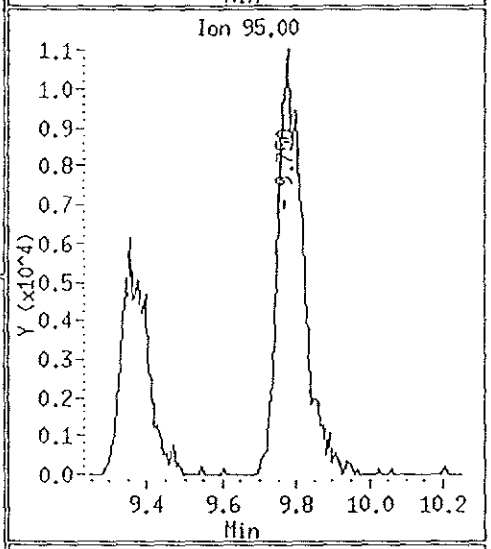


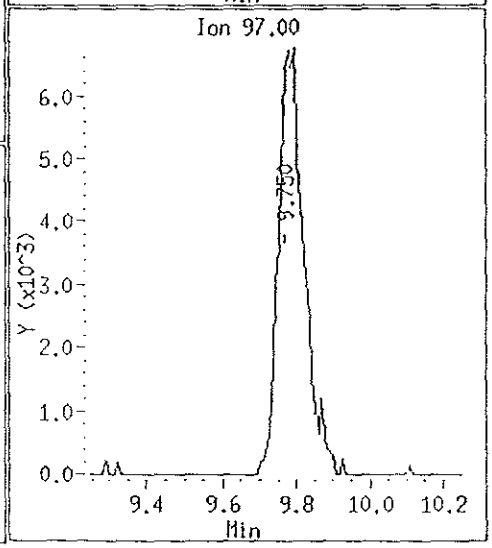












Data File: /chem/msc.i/c012296.b/c7979.d

Date : 22-JAN-96 04:04

Client ID:

Instrument: msc.i

mple Info: 17418n clj78cs002

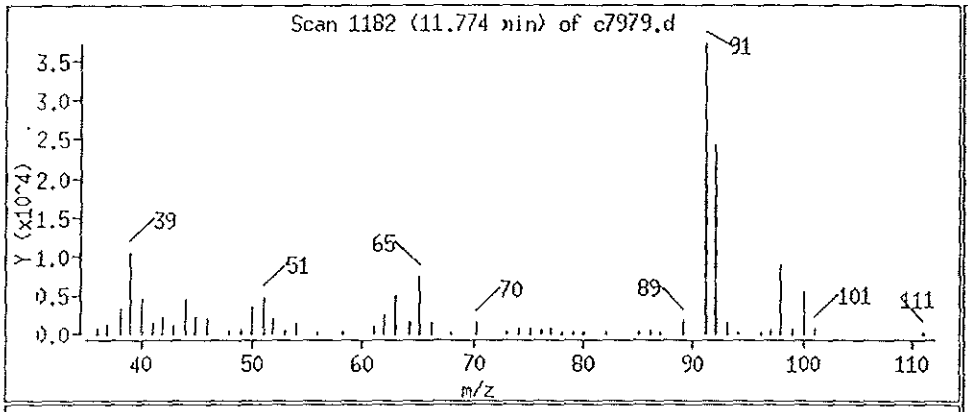
Purge Volume: 1.0

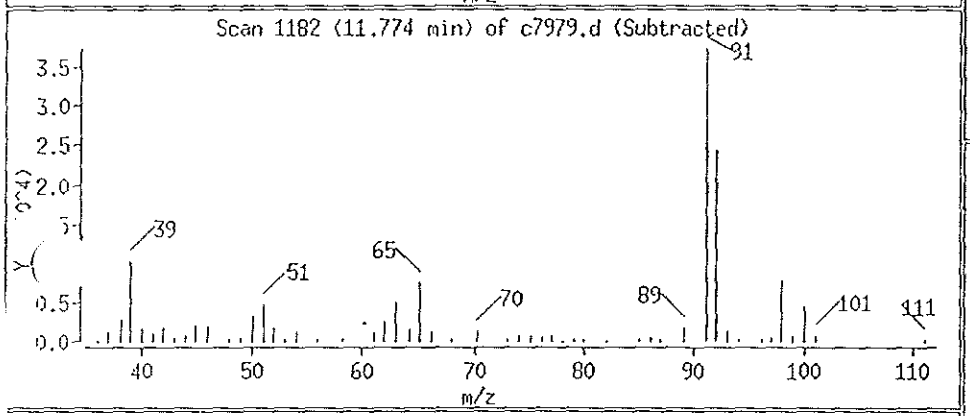
Operator: jk

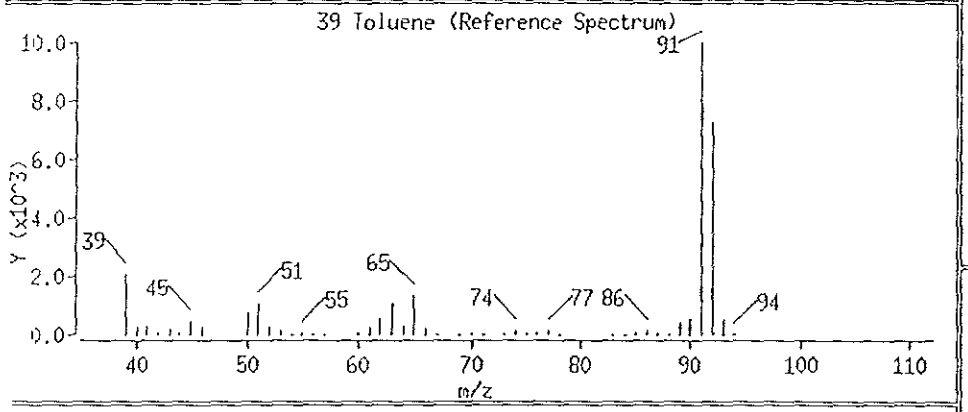
Column phase: J&W DB_624

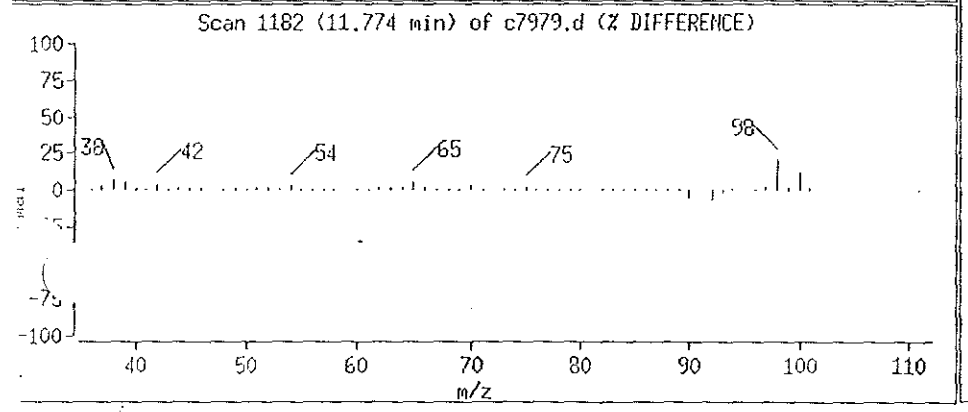
Column diameter: 0.53

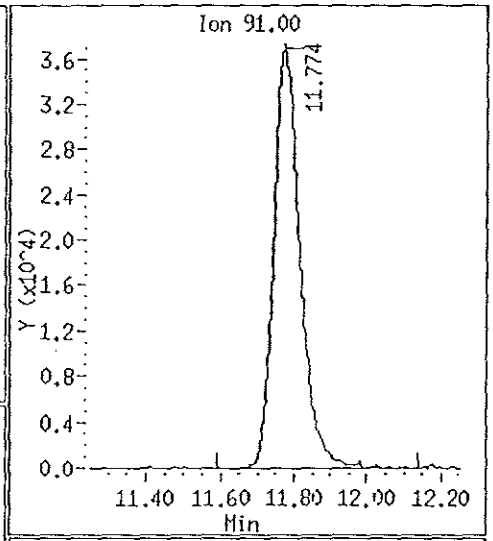
39 Toluene

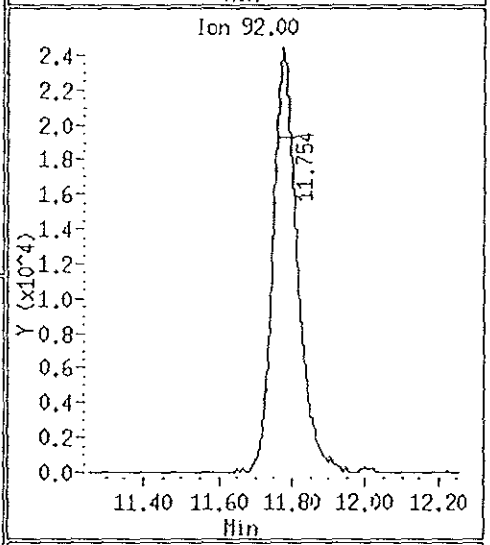


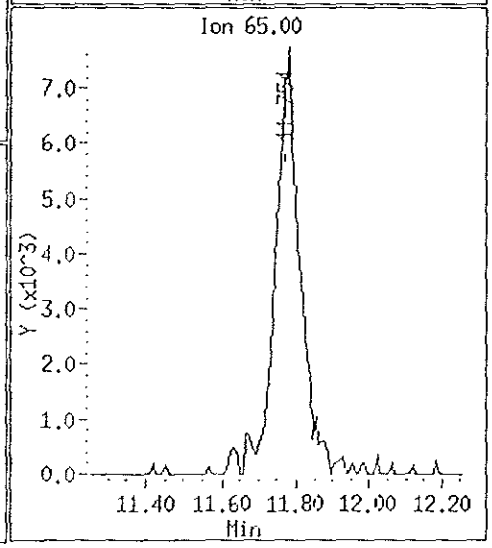












Data File: /chem/msc.i/c012296.b/c7979.d

Date : 22-JAN-96 04:04

Client ID:

Instrument: msc.i

ample Info: 17418n clj78cs002

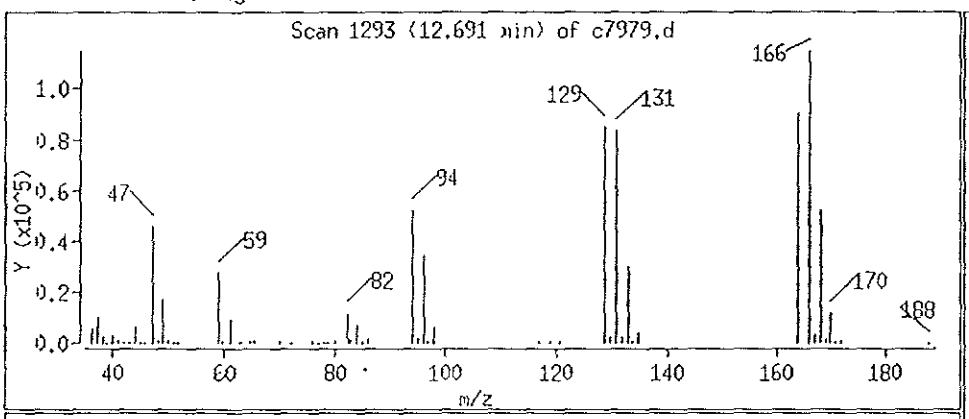
Purge Volume: 1.0

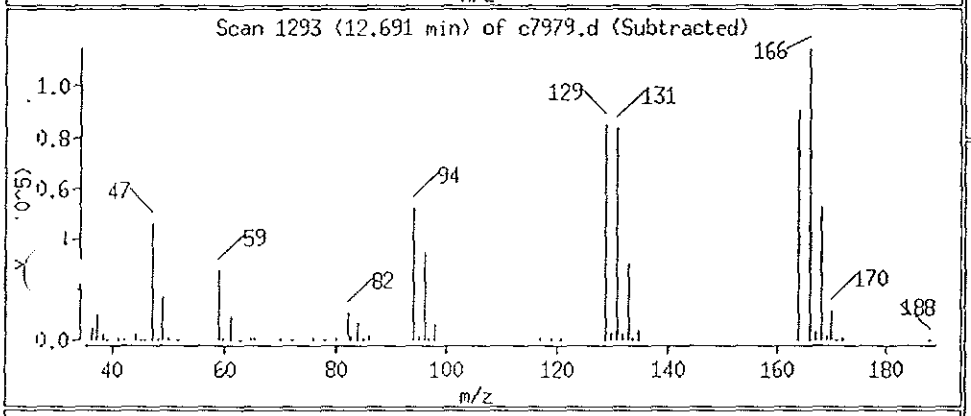
Operator: jk

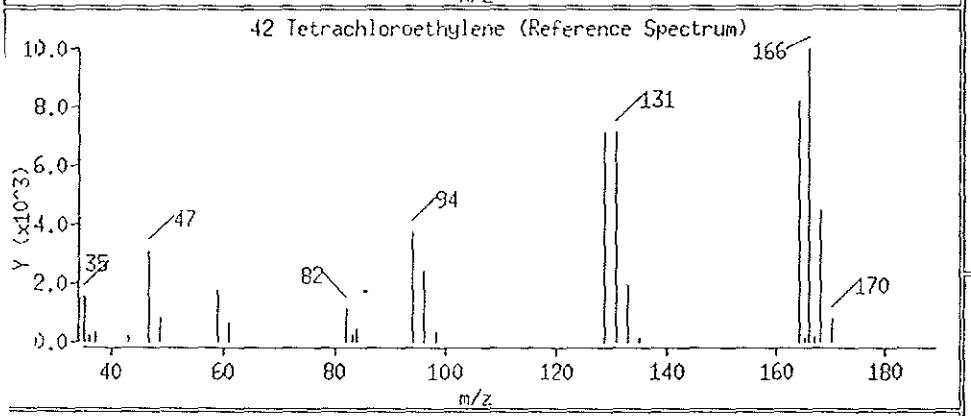
Column phase: J&W DB_624

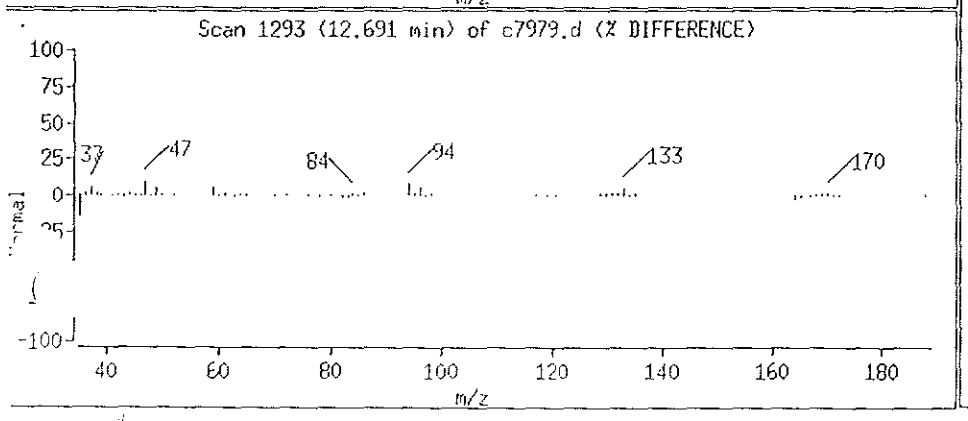
Column diameter: 0.53

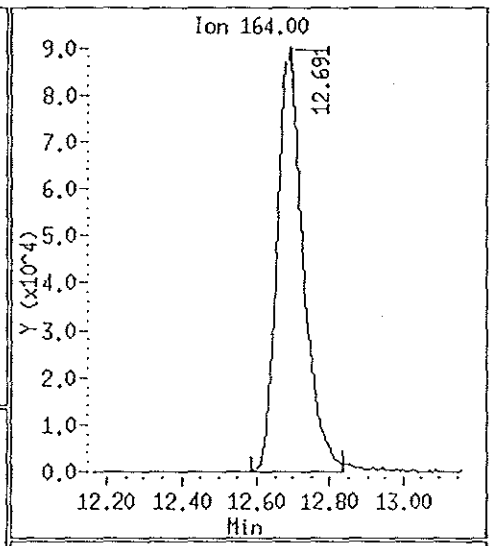
42 Tetrachloroethylene

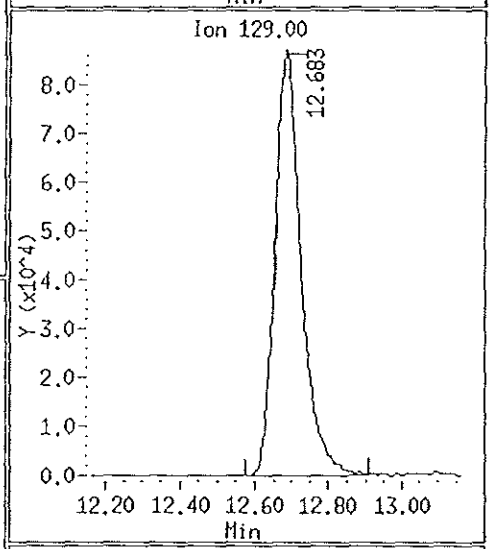


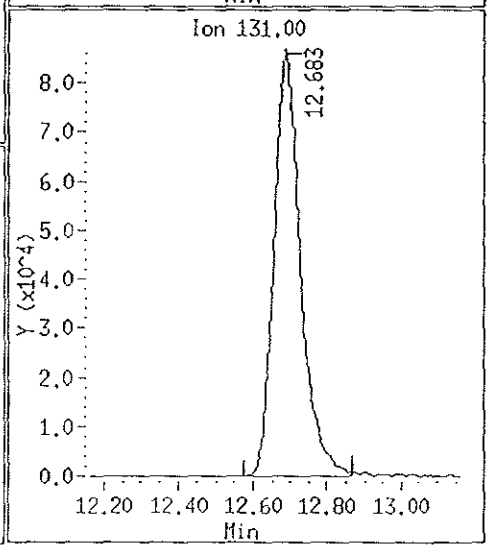












1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

0053

EPA SAMPLE NO.

CLJ78CS003

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

b Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2493V

Sample wt/vol: 5.20 (g/mL) G Lab File ID: C7978

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: not dec. 14 Date Analyzed: 01/22/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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	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	5	J
67-64-1	Acetone	33	
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	13	
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	6	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
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	6	U
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	11	U
591-78-6	2-Hexanone	6	U
127-18-4	Tetrachloroethylene	200	
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	23	
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0054

EPA SAMPLE NO.

CLJ78CS003

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

b Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2493V

Sample wt/vol: 5.20 (g/mL) G Lab File ID: C7978

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: not dec. 14 Date Analyzed: 01/22/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

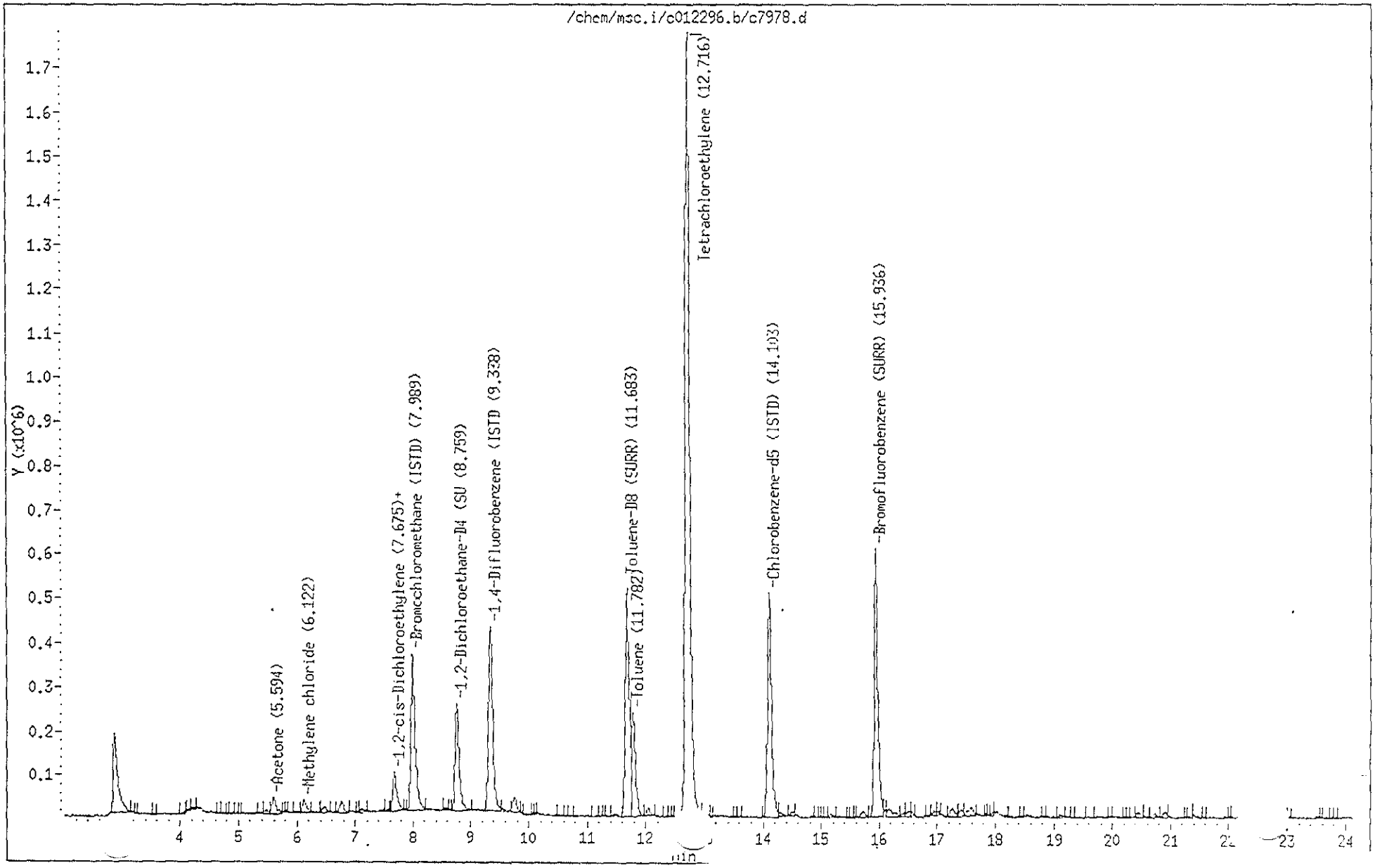
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0055

Data File: /chem/msc.i/c012296.b/c7978.d
Date : 22-JAN-96 03:33
Client ID:
Sample Info: 17418n clj78cs003
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i

Operator: jk
Column diameter: 0.53



OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Screen

Data file : /chem/msc.i/c012296.b/c7978.d
Lab Smp Id:
Inj Date : 22-JAN-96 03:33
Operator : jk Inst ID: msc.i
Smp Info : 17418n clj78cs003
Misc Info : jp2493v,n2v4913,m2,5000,1,5.20,5.0,960122
Comment :
Method : /chem/msc.i/c012296.b/012196_heatc.m
Meth Date : 22-Jan-1996 04:32 glenn Quant Type: ISTD
Cal Date : 22-JAN-96 00:58 Cal File: c7974.d
Als bottle: 8
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

MK 1/22/96

~~#540~~ 1/22

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
Acetone	43.00	5.594	5.609	(0.699)	130820	29.5	29.5
ethylene chloride	84.00	6.122	6.064	(0.765)	25428	4.32	4.32
1,2-cis-Dichloroethylene	96.00	7.675	7.661	(0.960)	70276	11.9	11.9(QM)
* 22 Bromochloromethane (ISTD)	128.00	7.998	7.976	(1.000)	194777	50.0	
S 27 1,2-Dichloroethane-D4 (SURR)	65.00	8.759	8.756	(1.095)	400721	49.0	49.0
* 30 1,4-Difluorobenzene (ISTD)	114.00	9.338	9.328	(1.000)	679379	50.0	
S 38 Toluene-D8 (SURR)	98.00	11.683	11.637	(0.828)	753669	55.7	55.7
39 Toluene	91.00	11.791	11.754	(0.836)	326121	20.6	20.6
42 Tetrachloroethylene	164.00	12.707	12.665	(0.901)	1095668	178	178
* 47 Chlorobenzene-d5 (ISTD)	117.00	14.103	14.072	(1.000)	597687	50.0	
S 56 Bromofluorobenzene (SURR)	95.00	15.936	15.921	(1.130)	588812	47.2	47.2

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: /chem/msc.i/c012296.b/c7978.d

Date : 22-JAN-96 03:33

Client ID:

Instrument: msc.i

Sample Info: 17418n clj78cs003

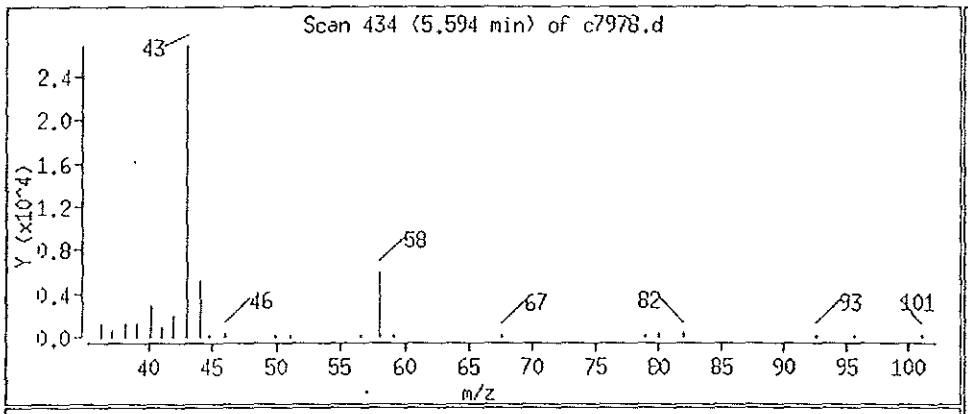
Purge Volume: 1.0

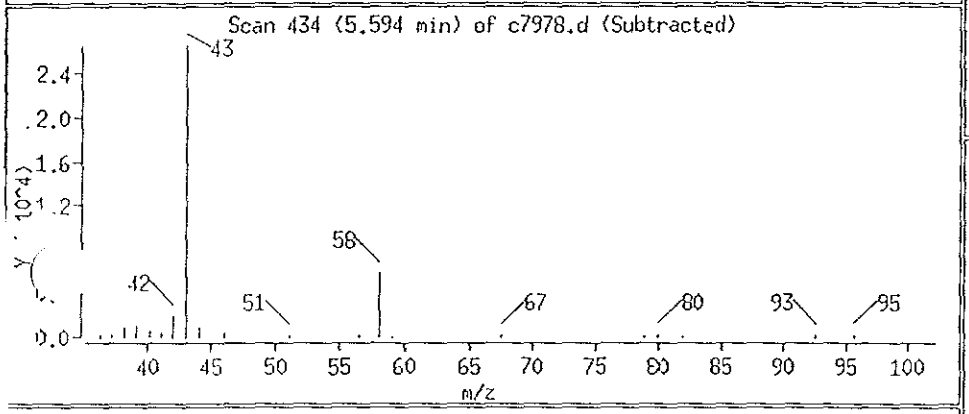
Operator: jk

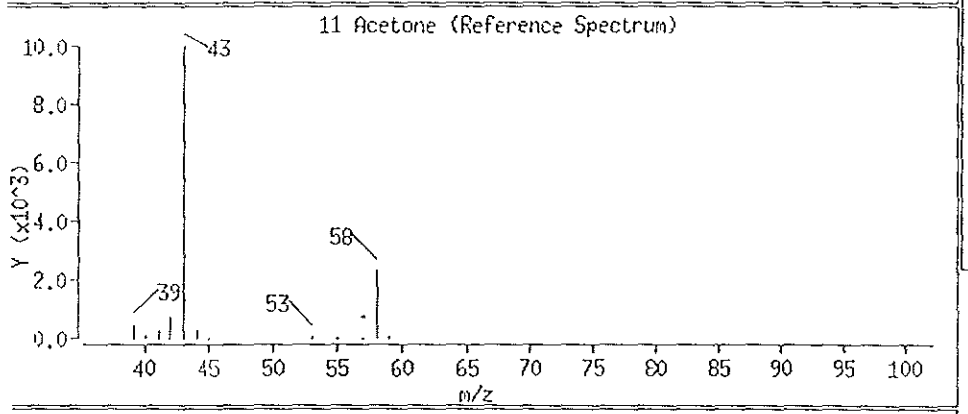
Column phase: J&W DB_624

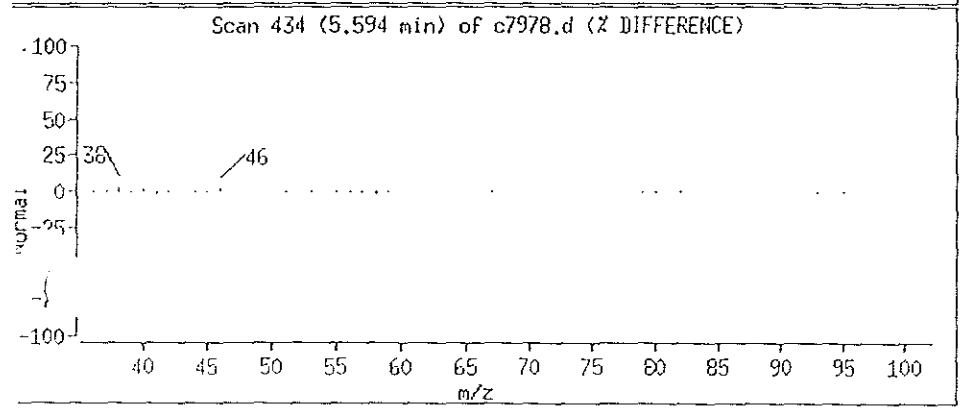
Column diameter: 0.53

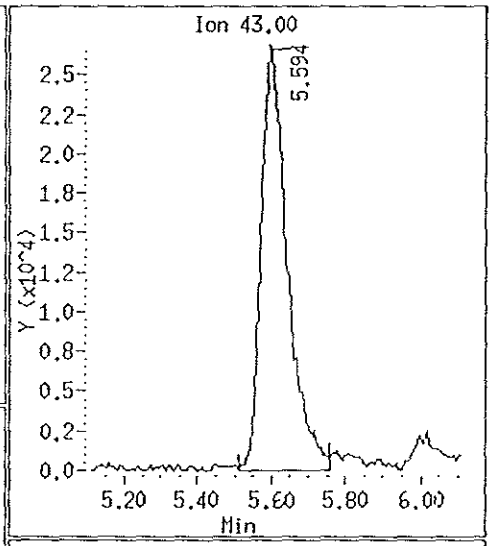
11 Acetone

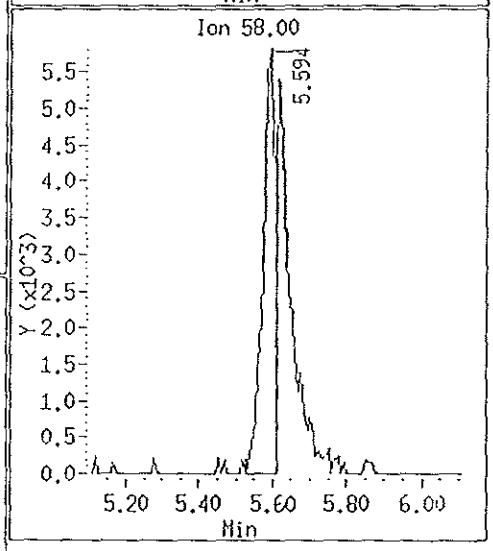












Data File: /chem/msc.i/c012296.b/c7978.d

Date : 22-JAN-96 03:33

Client ID:

Instrument: msc.i

(ample Info: 17418n clj78cs003

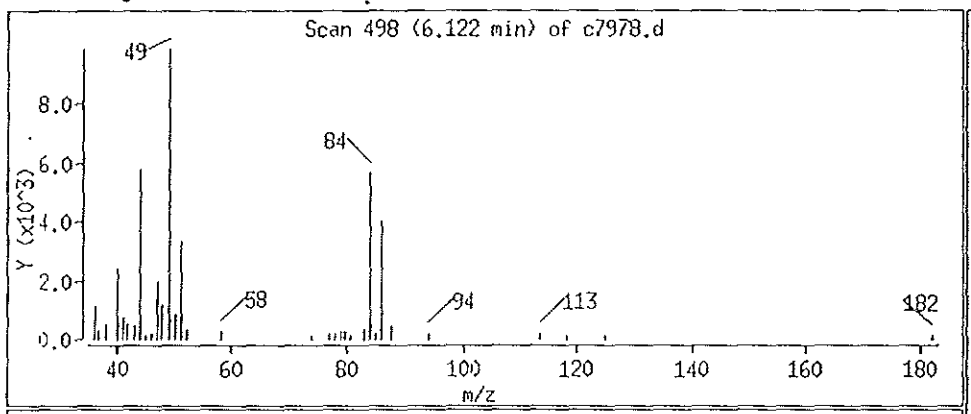
Purge Volume: 1.0

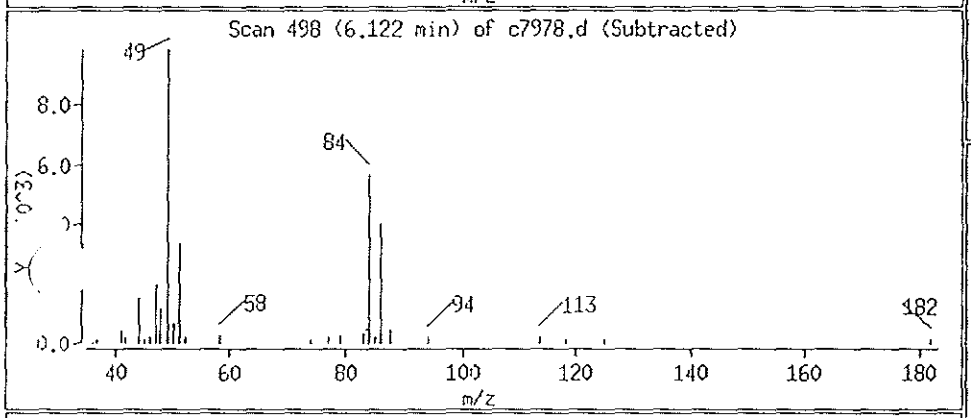
Operator: jk

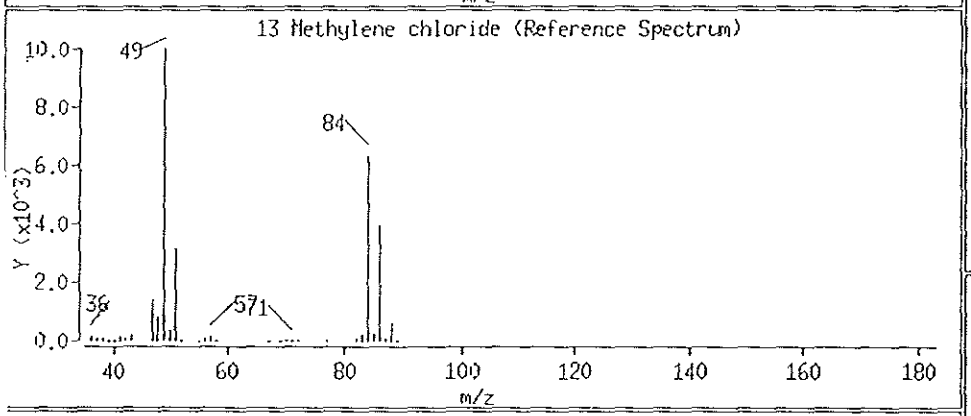
Column phase: J&W DB_624

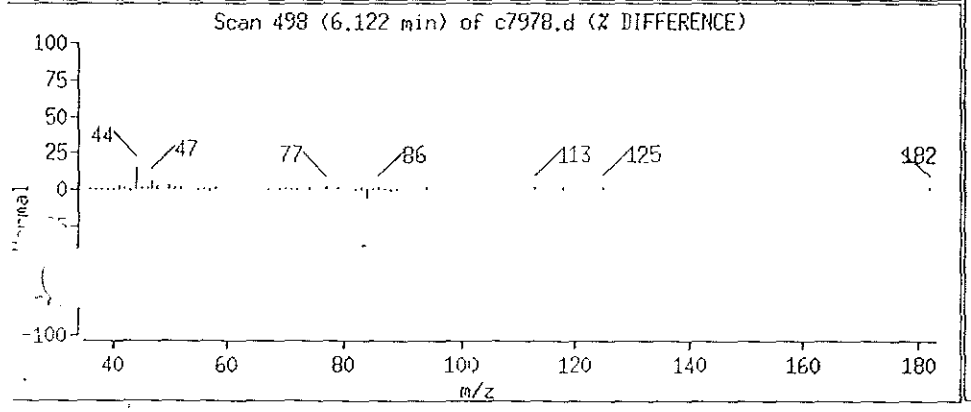
Column diameter: 0.53

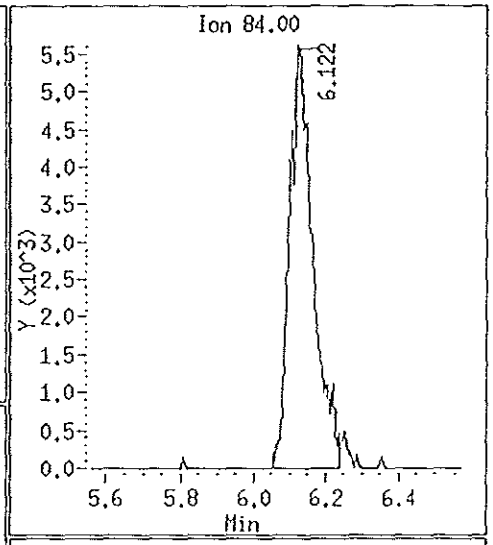
13 Methylene chloride

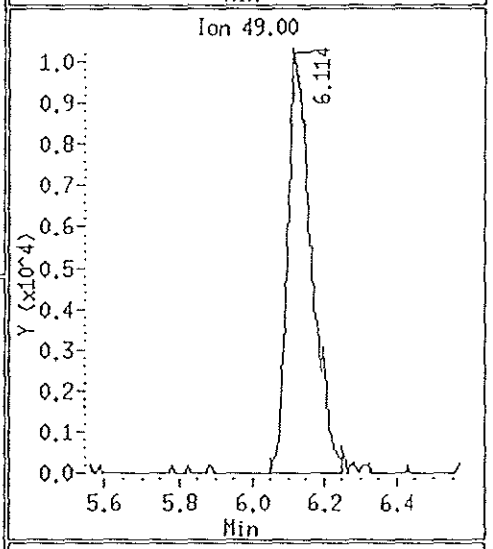


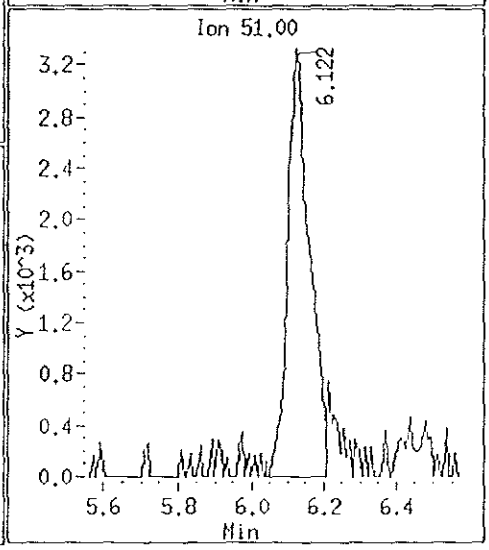












Data File: /chem/msc.i/c012296.b/c7978.d

Date : 22-JAN-96 03:33

Client ID:

Instrument: msc.i

Sample Info: 17418n clj78cs003

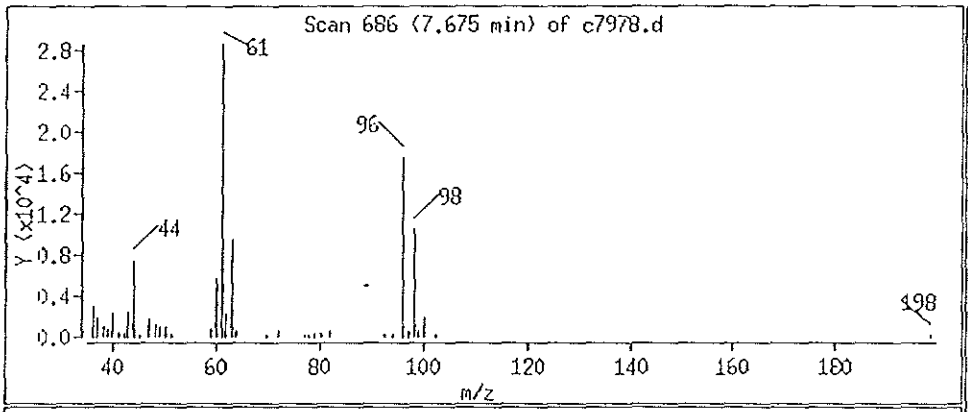
Purge Volume: 1.0

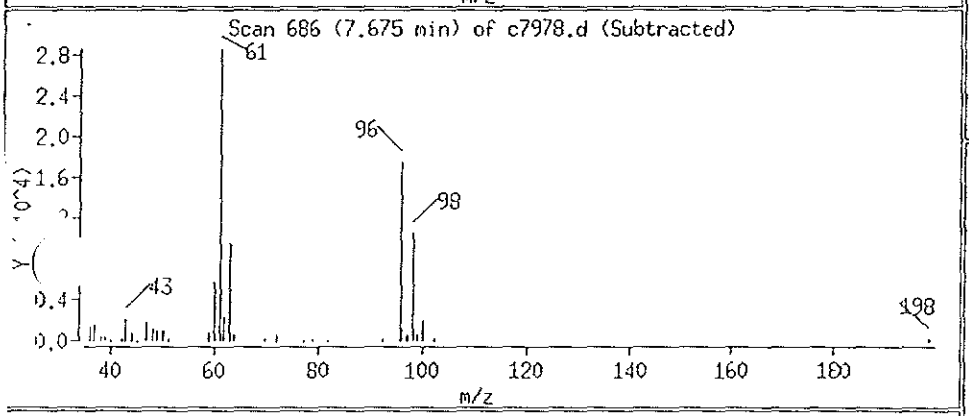
Operator: jk

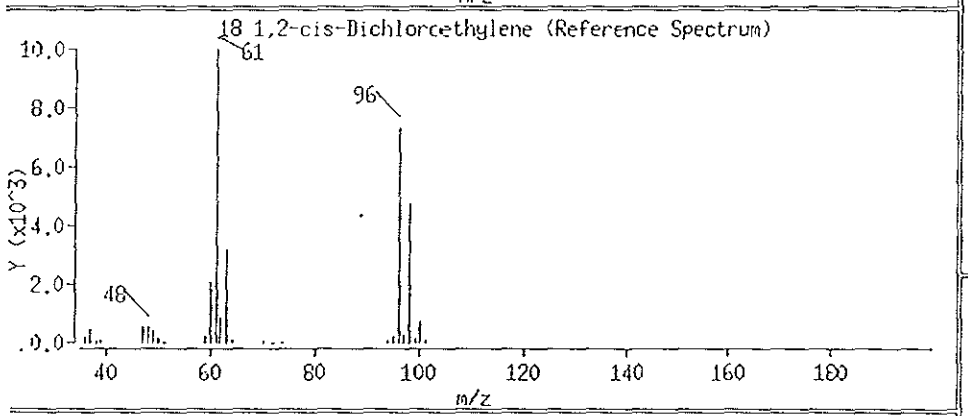
Column phase: J&W DB_624

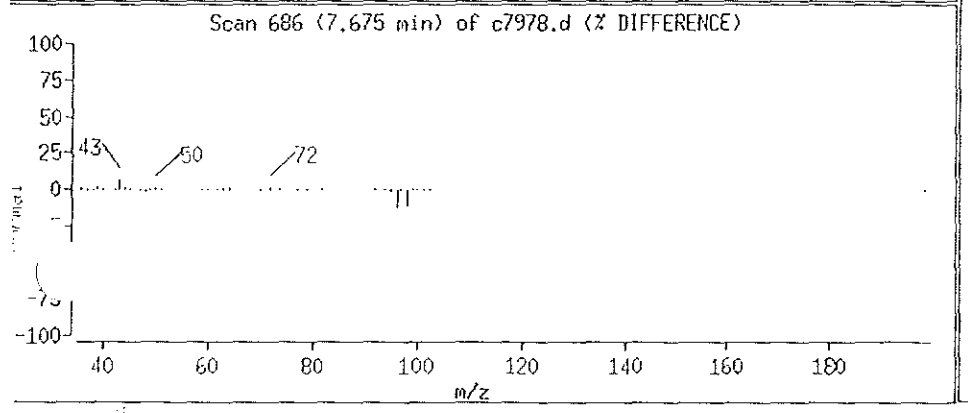
Column diameter: 0.53

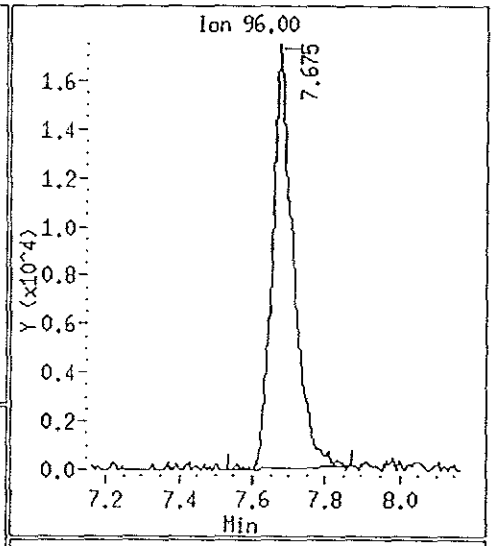
18 1,2-cis-Dichloroethylene

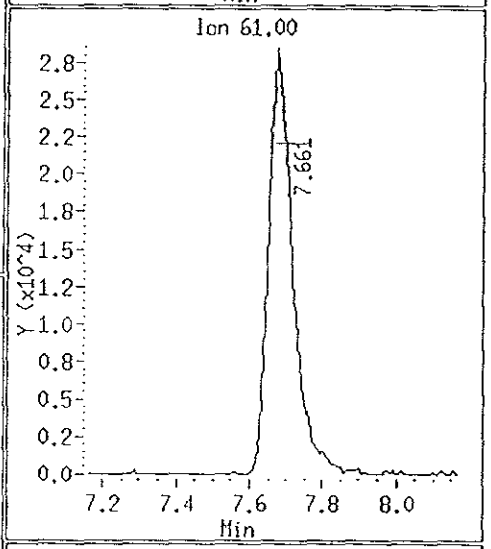


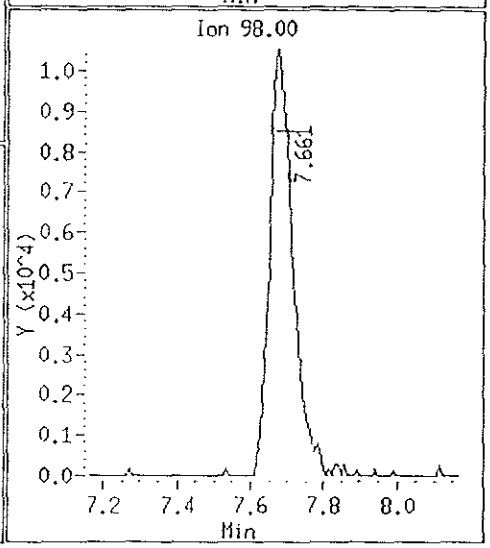












Data File: /chem/msc.i/c012296.b/c7978.d

Date : 22-JAN-96 03:33

Client ID:

Instrument: msc.i

ample Info: 17418n clj78cs003

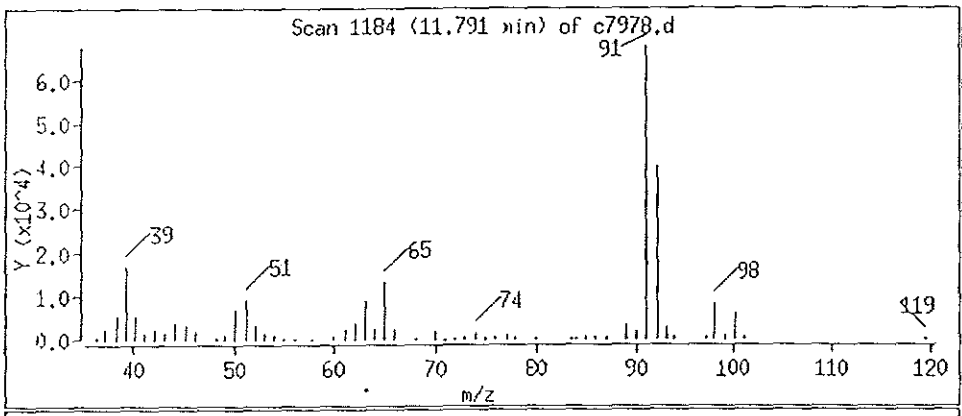
Purge Volume: 1.0

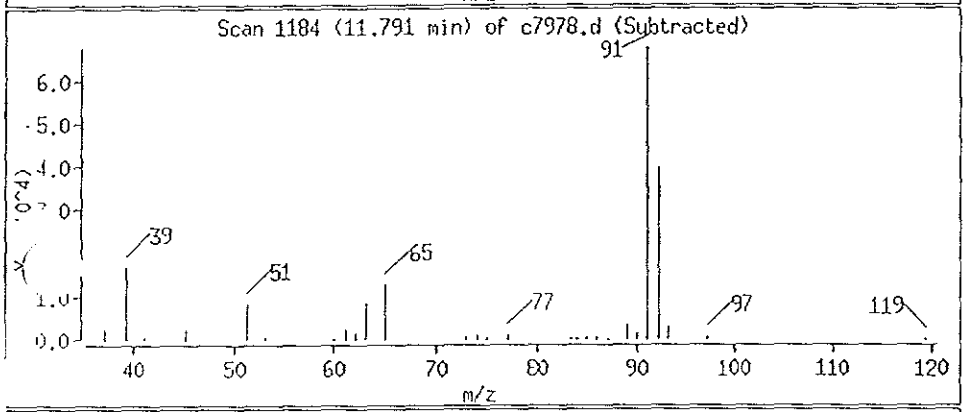
Operator: jk

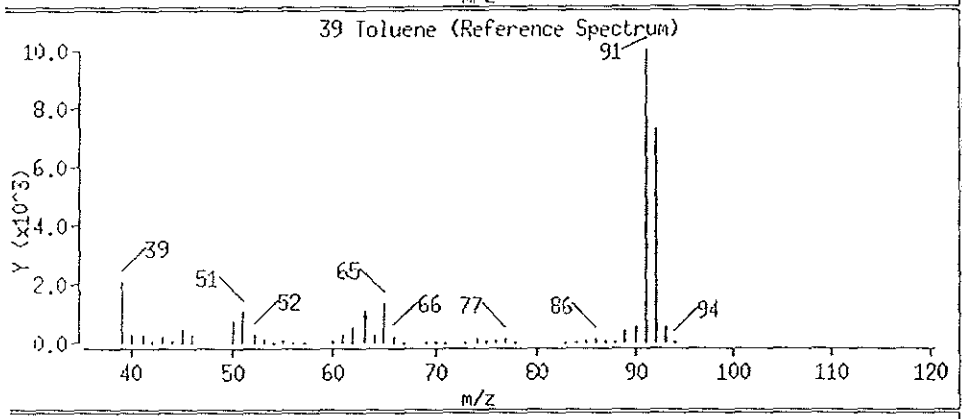
Column phase: J&W DB_624

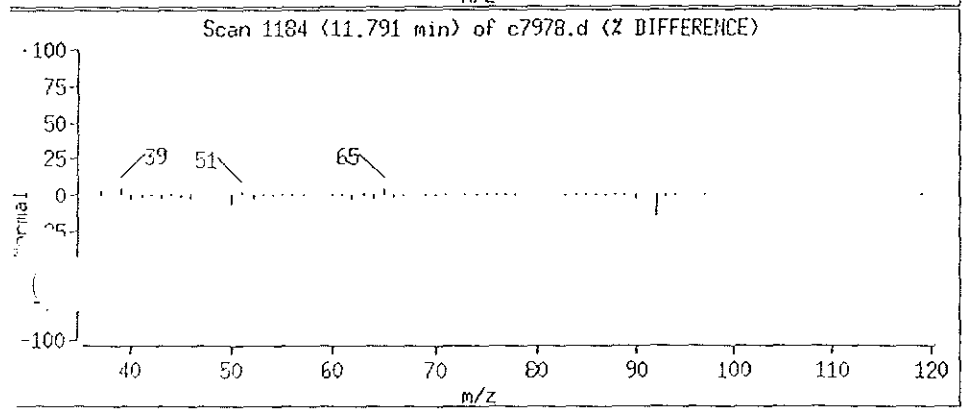
Column diameter: 0.53

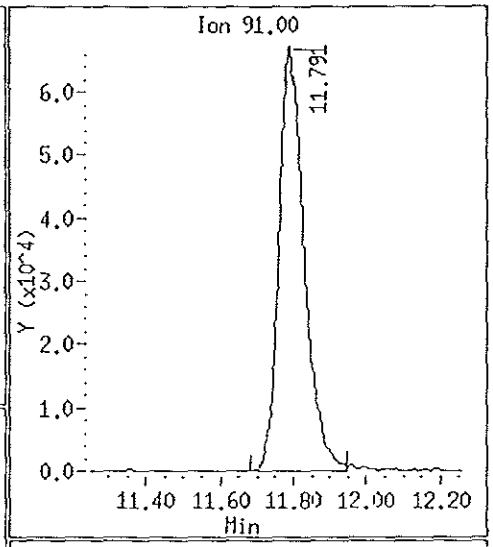
39 Toluene

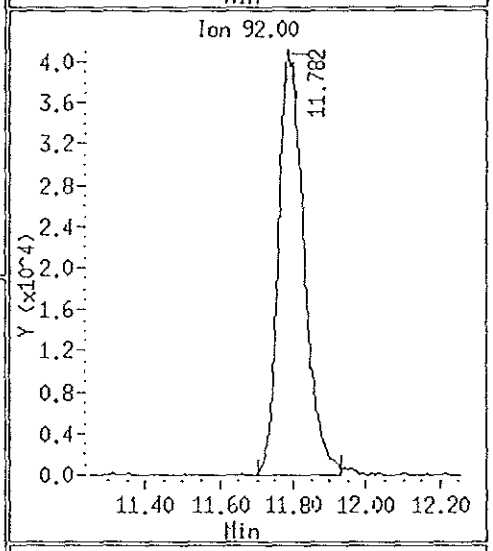


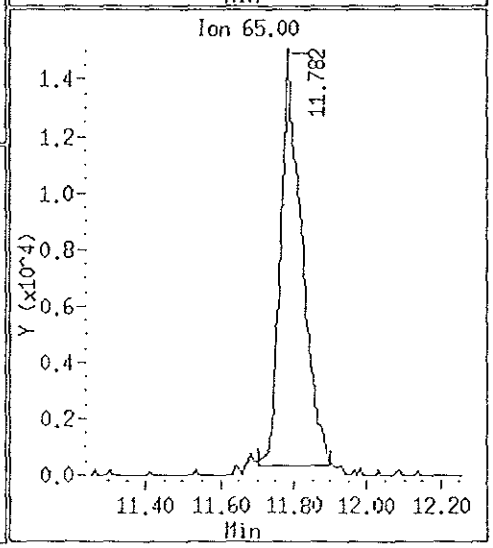












Data File: /chem/msc.i/c012296.b/c7978.d

Date : 22-JAN-96 03:33

Client ID:

Instrument: msc.i

(mple Info: 17418n clj78cs003

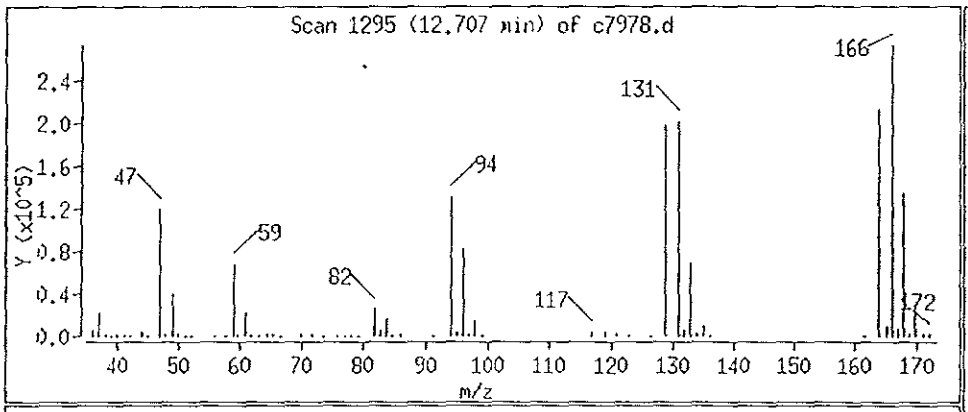
Purge Volume: 1.0

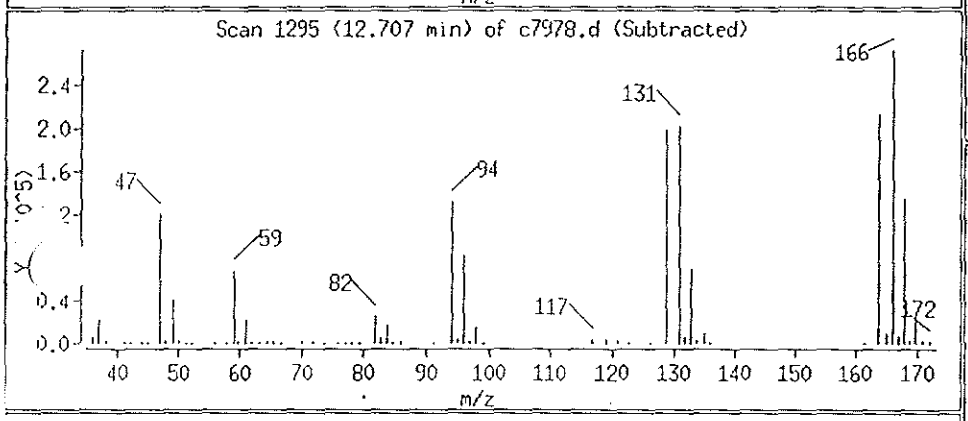
Operator: jk

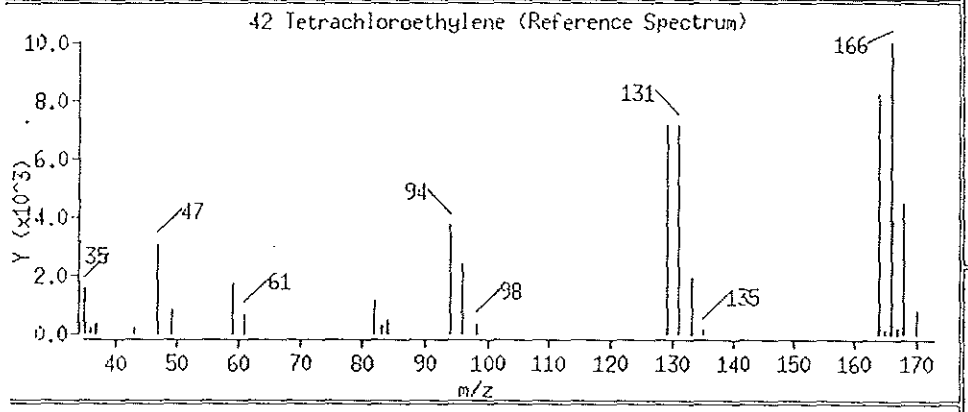
Column phase: J&W DB_624

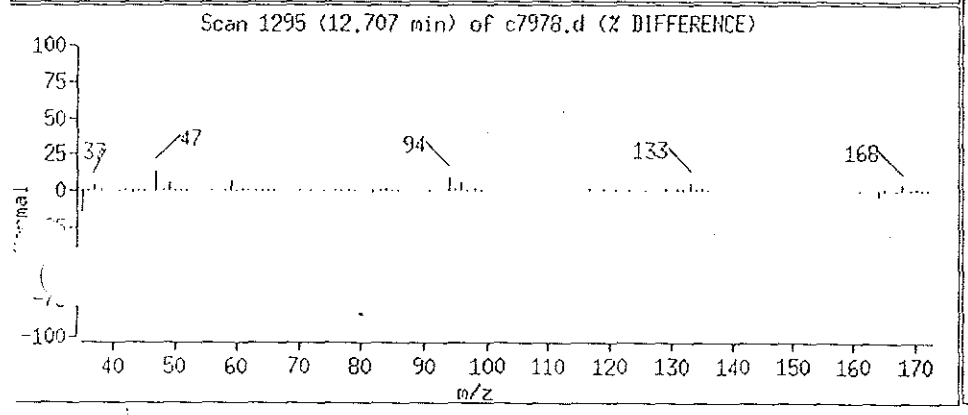
Column diameter: 0.53

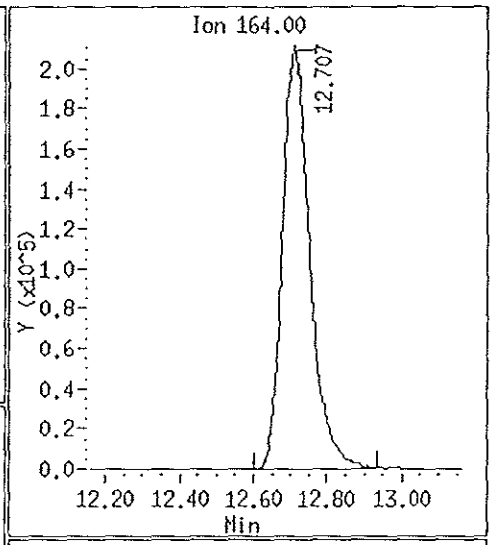
42 Tetrachloroethylene

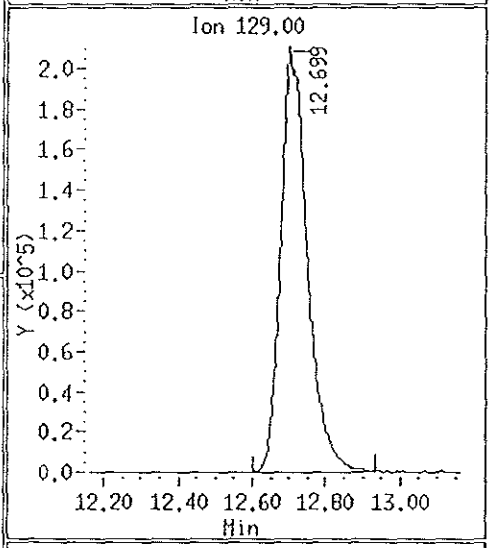


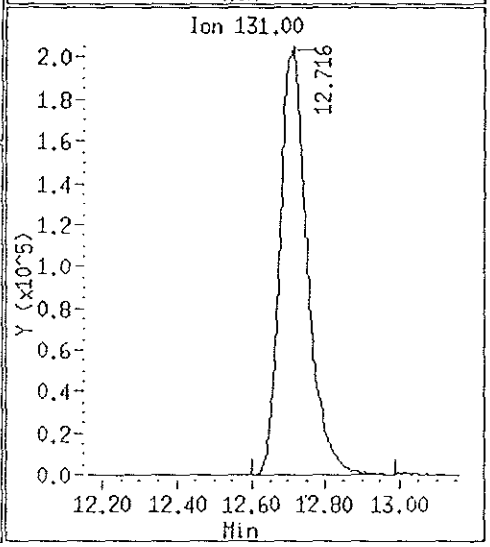












1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

0062 EPA SAMPLE NO.

CLJ78CS004

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2494V

Sample wt/vol: ~~2.19~~ 4.37 AB (g/mL) G Lab File ID: C7981

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: not dec. 17 Date Analyzed: 01/22/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 250.0

Soil Extract Volume: ~~5000~~ 10000 AB (uL) Soil Aliquot Volume: 20.0 (uL)

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	3400	U
74-83-9	Bromomethane	3400	U
75-01-4	Vinyl Chloride	3400	U
75-00-3	Chloroethane	3400	U
75-09-2	Methylene Chloride	3400	U
67-64-1	Acetone	6900	U
75-15-0	Carbon Disulfide	3400	U
75-35-4	1,1-Dichloroethene	3400	U
75-34-3	1,1-Dichloroethane	3400	U
540-59-0	1,2-Dichloroethene (total)	3400	U
67-66-3	Chloroform	3400	U
107-06-2	1,2-Dichloroethane	3400	U
78-93-3	2-Butanone	3400	U
71-55-6	1,1,1-Trichloroethane	3400	U
56-23-5	Carbon Tetrachloride	3400	U
75-27-4	Bromodichloromethane	3400	U
78-87-5	1,2-Dichloropropane	3400	U
10061-01-5	cis-1,3-Dichloropropene	3400	U
79-01-6	Trichloroethene	3400	U
124-48-1	Dibromochloromethane	3400	U
79-00-5	1,1,2-Trichloroethane	3400	U
71-43-2	Benzene	3400	U
10061-02-6	trans-1,3-Dichloropropene	3400	U
75-25-2	Bromoform	3400	U
108-10-1	Methyl-iso-butyl ketone	6900	U
591-78-6	2-Hexanone	3400	U
127-18-4	Tetrachloroethylene	37000	
79-34-5	1,1,2,2-Tetrachloroethane	3400	U
108-88-3	Toluene	3400	U
108-90-7	Chlorobenzene	3400	U
100-41-4	Ethylbenzene	3400	U
100-42-5	Styrene	3400	U
1330-20-7	Xylene (total)	3400	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0063 EPA SAMPLE NO.

CLJ78CS004

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2494V

Sample wt/vol: ~~2.1985~~ 4.37 (g/mL) G Lab File ID: C7981

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: not dec. 17 Date Analyzed: 01/22/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 250.0

Soil Extract Volume: ~~5000uL~~ 10000 (uL) Soil Aliquot Volume: 20.0 (uL)

Number TICs found: 10

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

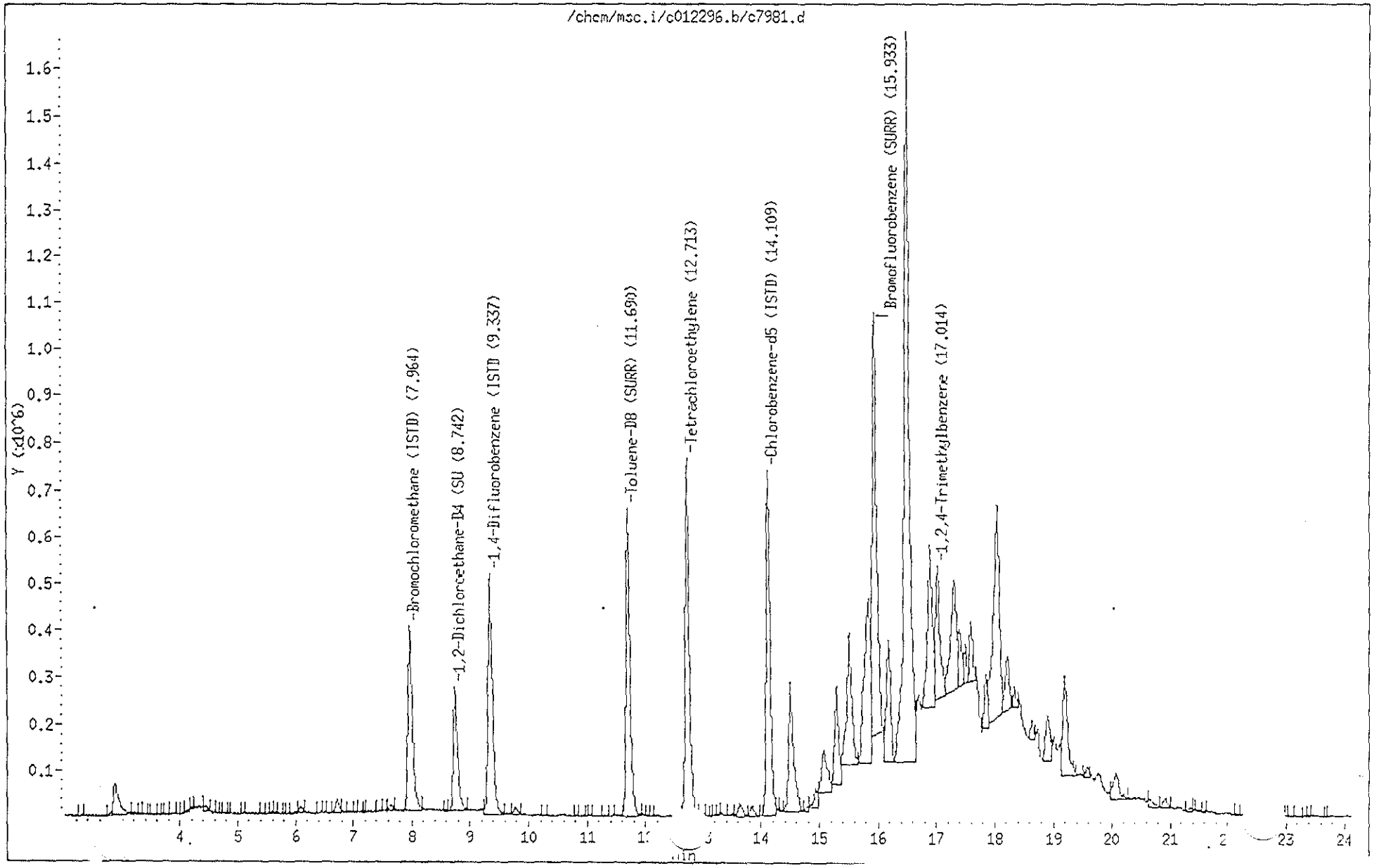
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 111-84-2	Nonane	14.50	17000	JN
2. 15869-94-0	Octane, 3,6-dimethyl-	15.29	9300	JN
3.	unknown	15.51	17000	J
4. 871-83-0	Nonane, 2-methyl-	15.83	25000	JN
5.	Unk hydrocarbon	16.17	13000	J
6. 124-18-5	Decane	16.48	95000	JN
7.	Unk hydrocarbon	16.88	21000	J
8.	Unk hydrocarbon	17.29	16000	J
9.	Unk hydrocarbon	18.03	32000	J
10. 2958-76-1	Naphthalene, decahydro-2-met	19.19	13000	JN

0064

Data File: /chem/msc.i/c012296.b/c7981.d
Date : 22-JAN-96 05:08
Client ID: 17418n clj78cs004
Sample Info: 17418n clj78cs004
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i

Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c012296.b/c7981.d
Report Date: 22-Jan-1996 10:09

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240 + Screen

Data file : /chem/msc.i/c012296.b/c7981.d
Lab Smp Id: Client Smp ID: 17418n clj78cs004
Inj Date : 22-JAN-96 05:08
Operator : jk Inst ID: msc.i
Smp Info : 17418n clj78cs004
Misc Info : jp2494v,n2v4914,m2,20,250,2.19,5.00,960121
Comment :
Method : /chem/msc.i/c012296.b/012196_ambic.m
Meth Date : 22-Jan-1996 08:31 glenn Quant Type: ISTD
Cal Date : 22-JAN-96 00:26 Cal File: c7973.d
Als bottle: 12
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

MK 1/22/96

#590

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* Bromochloromethane (ISTD)	128.00	7.972	7.904	(1.000)	219981	50.0	
$,2-Dichloroethane-D4 (SURR)	65.00	8.742	8.659	(1.096)	445094	50.8	50.8
* 30 1,4-Difluorobenzene (ISTD)	114.00	9.337	9.239	(1.000)	824173	50.0	
$ 38 Toluene-D8 (SURR)	98.00	11.690	11.573	(0.828)	940251	48.0	48.0
42 Tetrachloroethylene	164.00	12.713	12.592	(0.901)	454157	53.3	53.3
* 47 Chlorobenzene-d5 (ISTD)	117.00	14.109	13.991	(1.000)	832213	50.0	
$ 56 Bromofluorobenzene (SURR)	95.00	15.933	15.840	(1.129)	947747	53.6	53.6
65 1,2,4-Trimethylbenzene	105.00	17.014	16.937	(1.206)	230721	9.56	9.56

Data File: /chem/msc.i/c012296.b/c7981.d

Page 2

Date : 22-JAN-96 05:08

Client ID: 17418n clj78cs004

Instrument: msc.i

Sample Info: 17418n clj78cs004

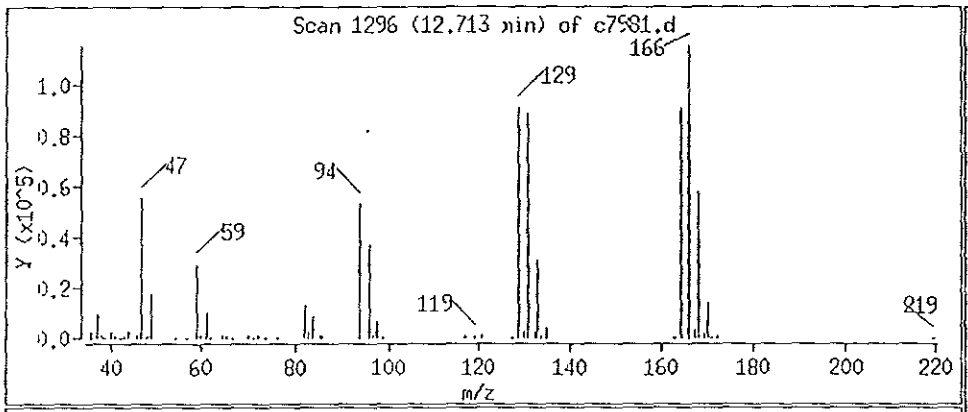
Purge Volume: 1.0

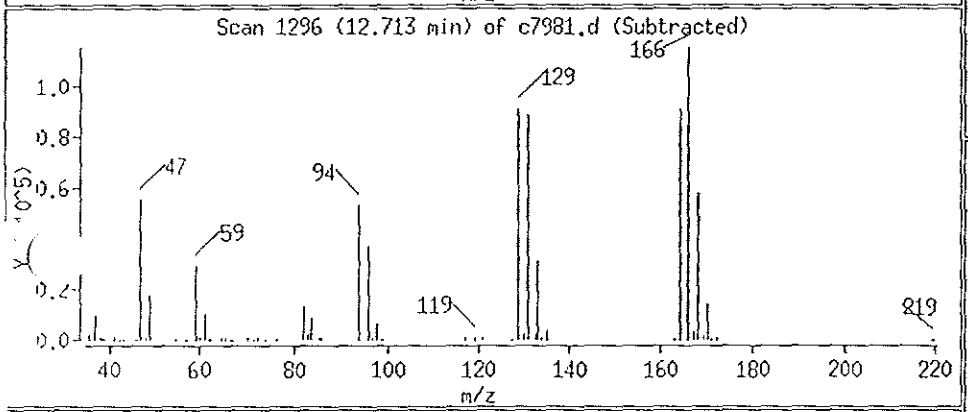
Operator: jk

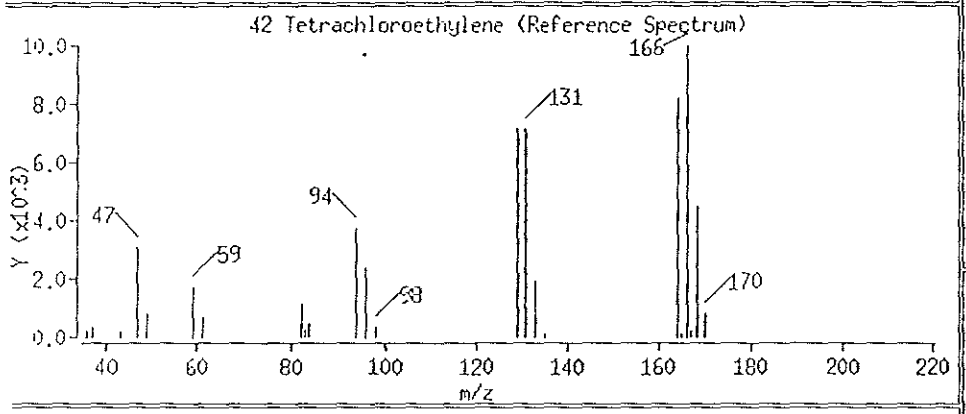
Column phase: J&W DB_624

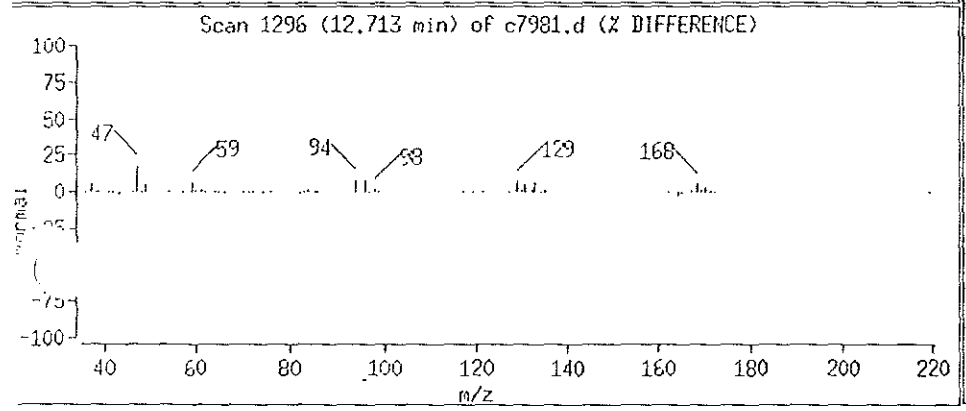
Column diameter: 0.53

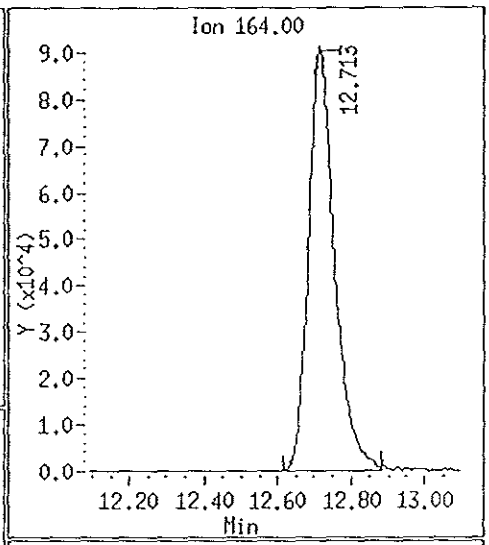
42 Tetrachloroethylene

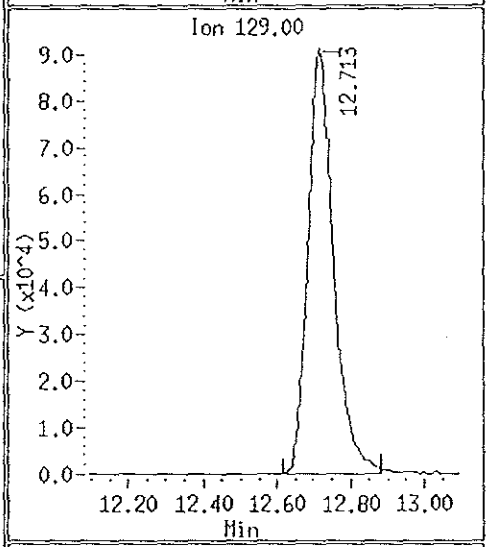


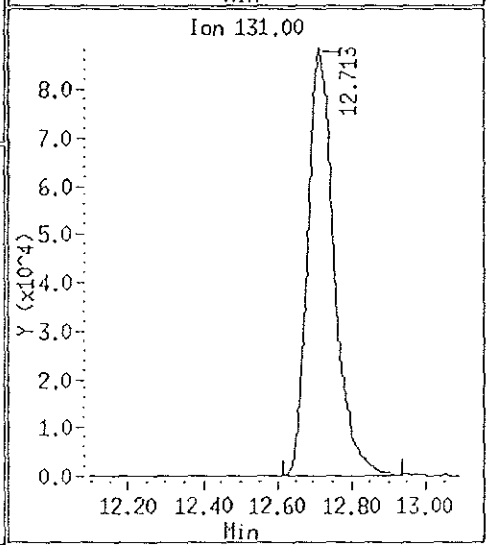












Data File: /chem/msc.i/c012296.b/c7981.d

Date : 22-JAN-96 05:08

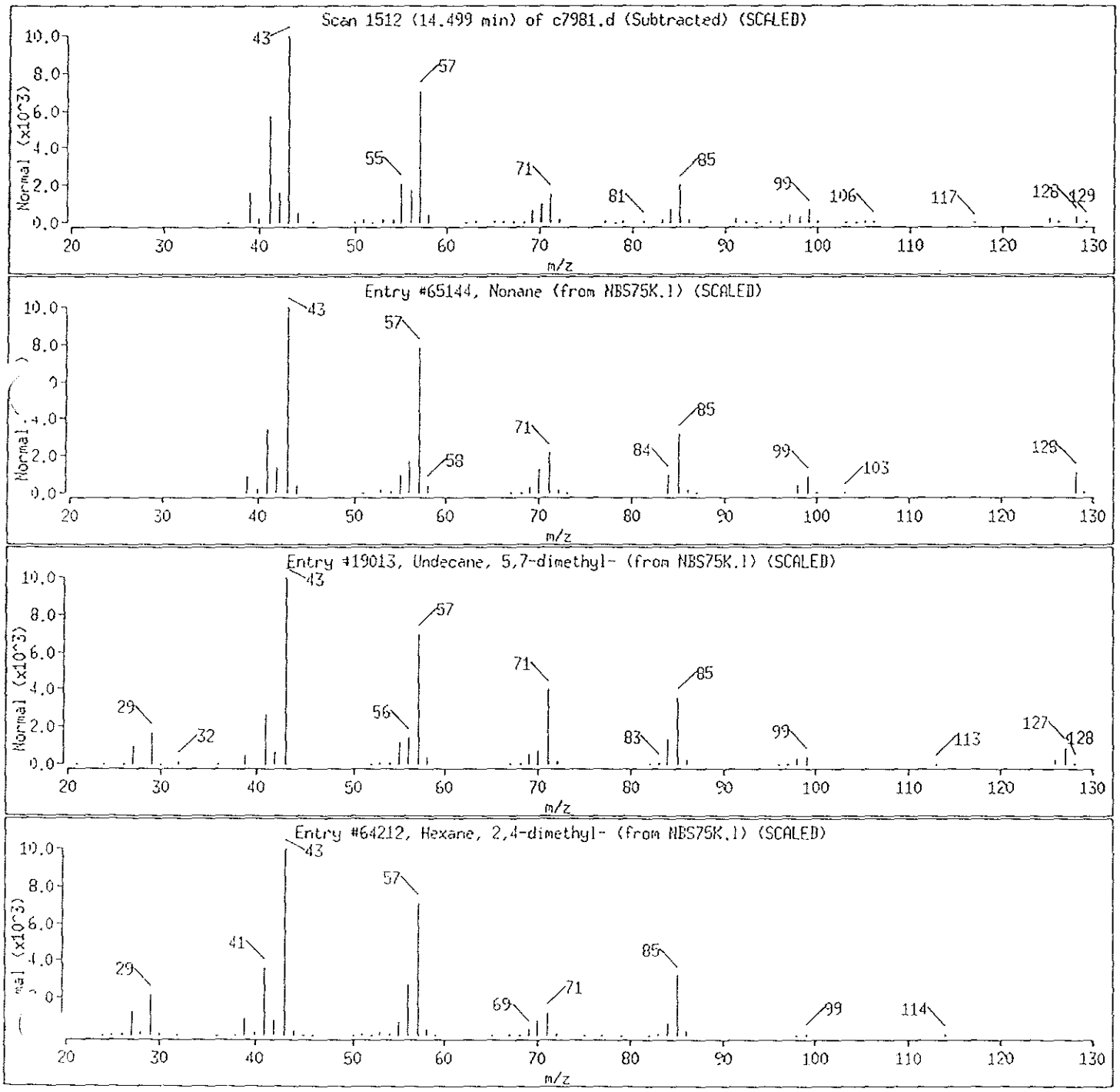
Client ID: 17418n clj78cs004 Instrument: msc.i

Sample Info: 17418n clj78cs004

Purge Volume: 1.0 Operator: jk

Column phase: J&W DB_624 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonane	111-84-2	NBS75K.1	65144	95	C9H20	128
Undecane, 5,7-dimethyl-	17312-83-3	NBS75K.1	19013	59	C13H28	184
Hexane, 2,4-dimethyl-	589-43-5	NBS75K.1	64212	59	C8H18	114



Data File: /chem/msc.i/c012296.b/c7981.d

Date : 22-JAN-96 05:08

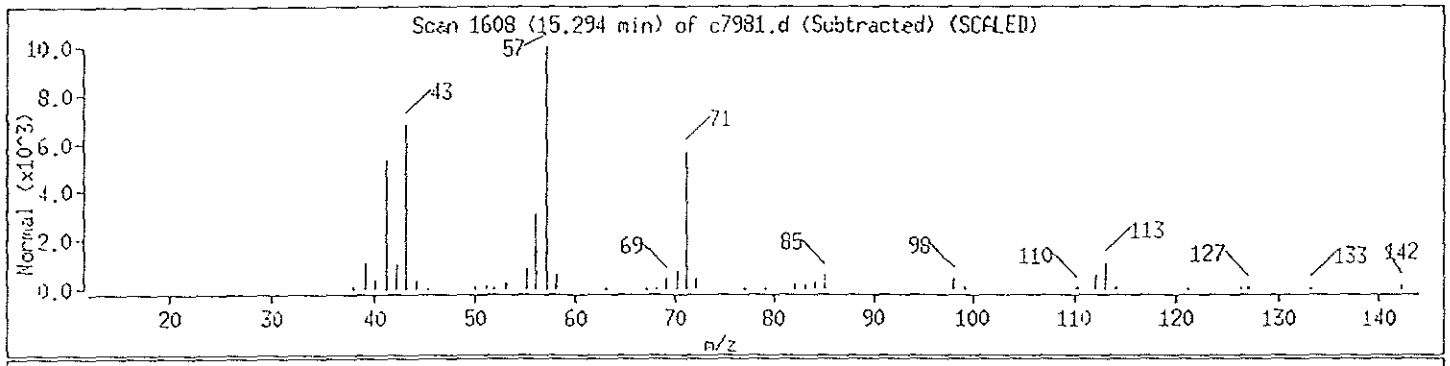
Client ID: 17418n clj78cs004 Instrument: msc.i

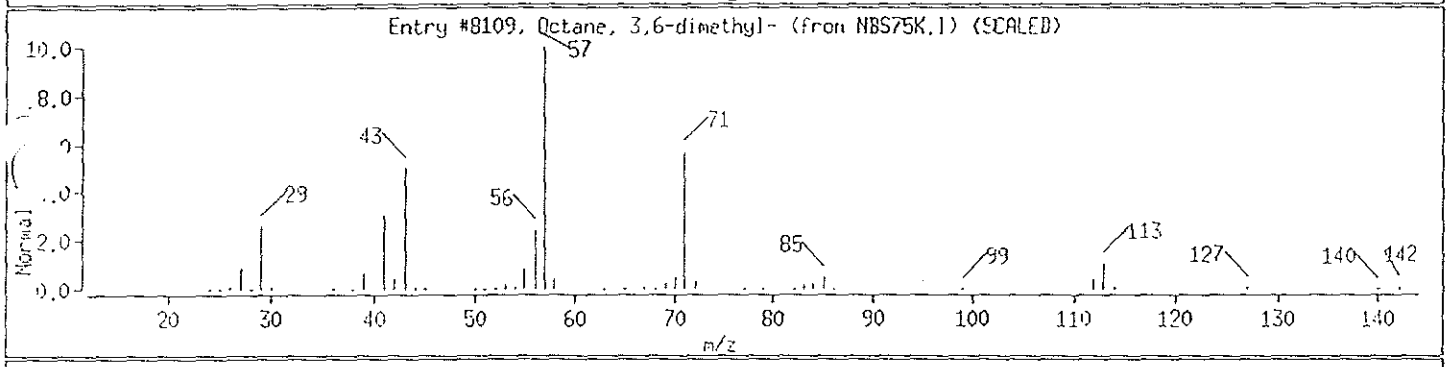
Sample Info: 17418n clj78cs004

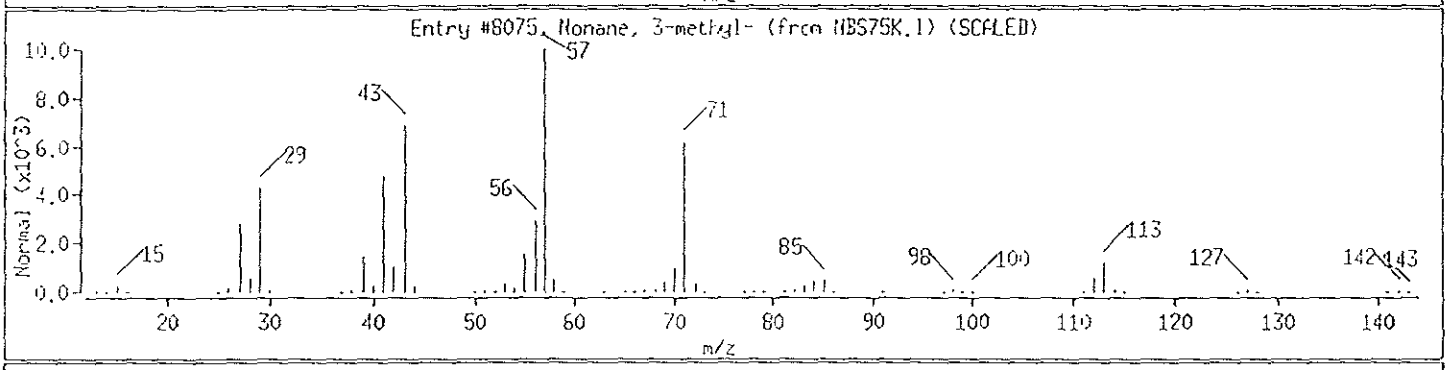
Purge Volume: 1.0 Operator: jk

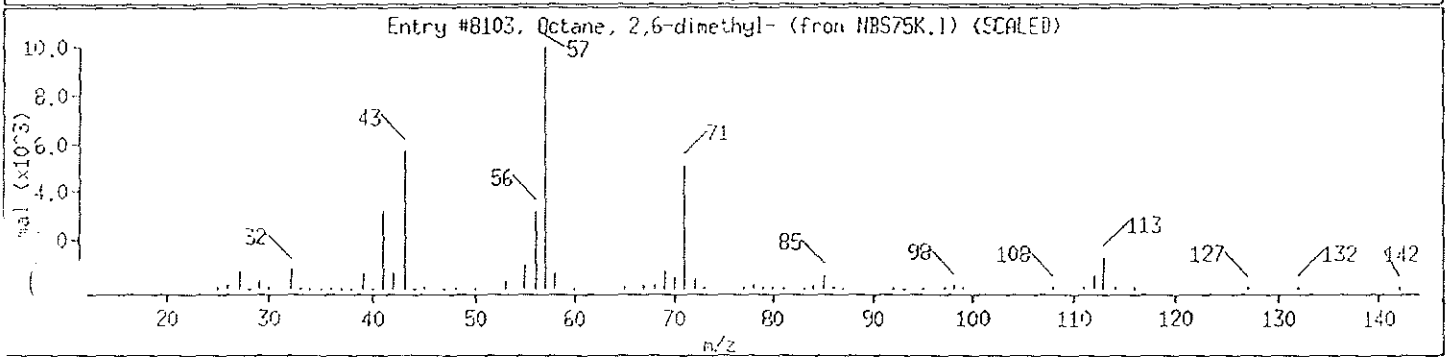
Column phase: J&W DB_624 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Octane, 3,6-dimethyl-	15869-94-0	NBS75K.l	8109	93	C10H22	142
Nonane, 3-methyl-	5911-04-6	NBS75K.l	8075	91	C10H22	142
Octane, 2,6-dimethyl-	2051-30-1	NBS75K.l	8103	72	C10H22	142









Data File: /chem/msc.i/c012296.b/c7981.d

Date : 22-JAN-96 05:08

Client ID: 17418n clj78cs004

Instrument: msc.i

Sample Info: 17418n clj78cs004

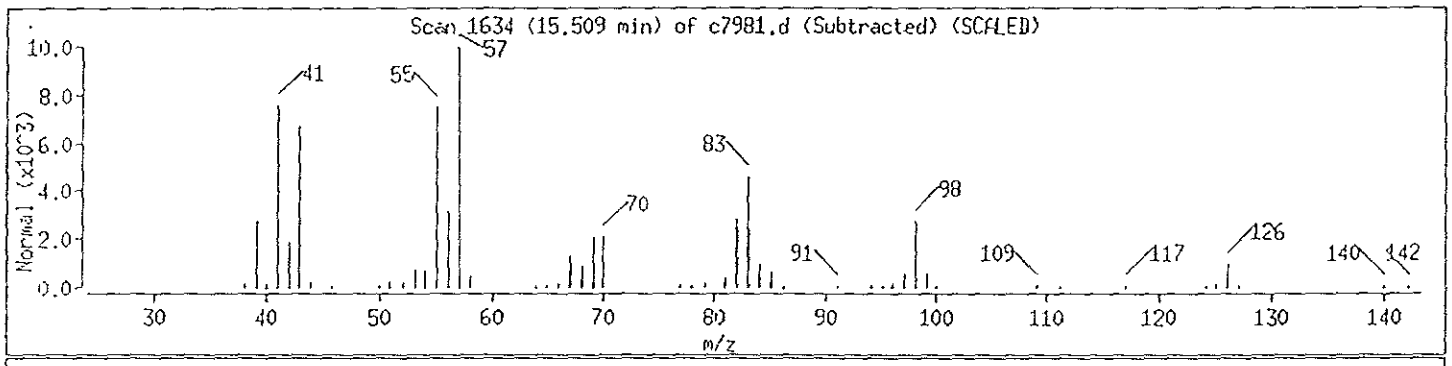
Purge Volume: 1.0

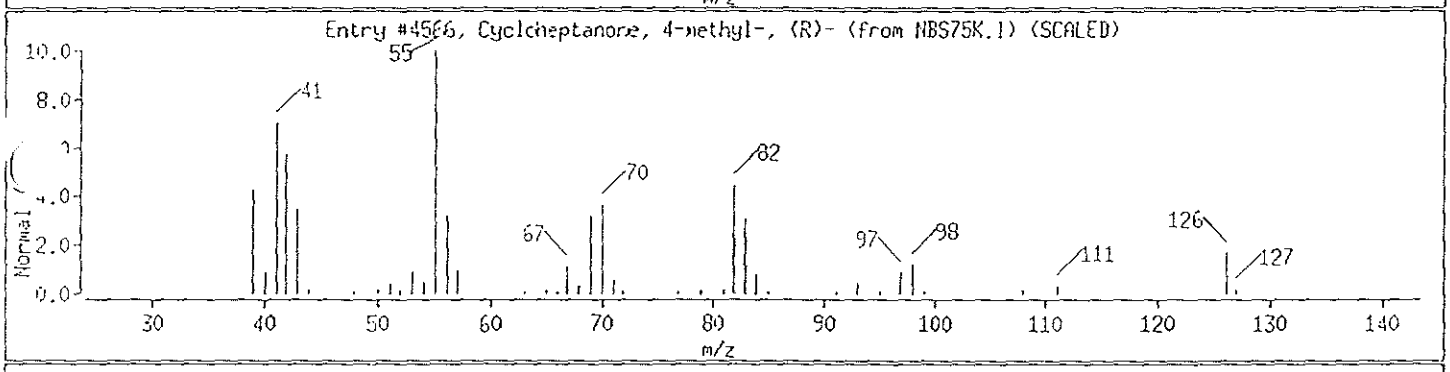
Operator: jk

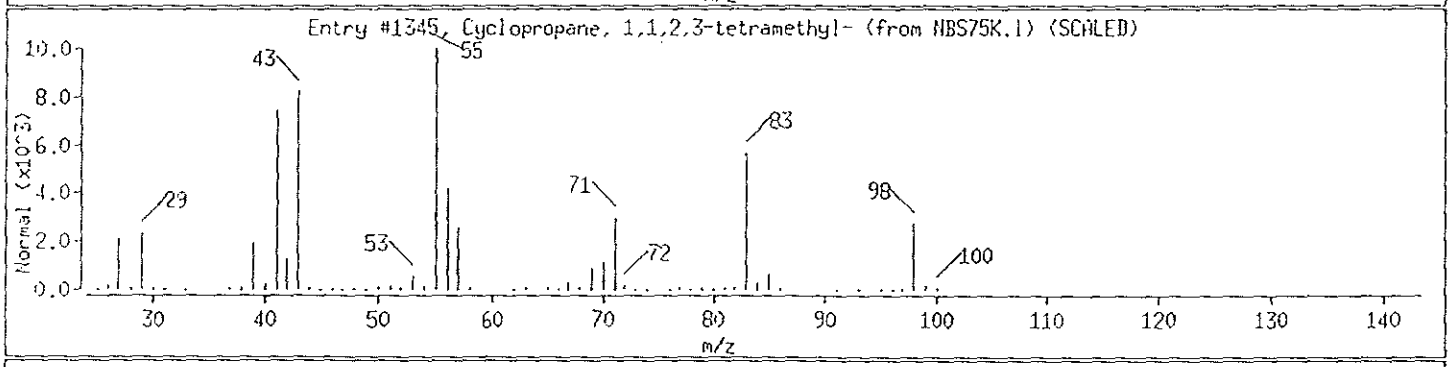
Column phase: J&W DB_624

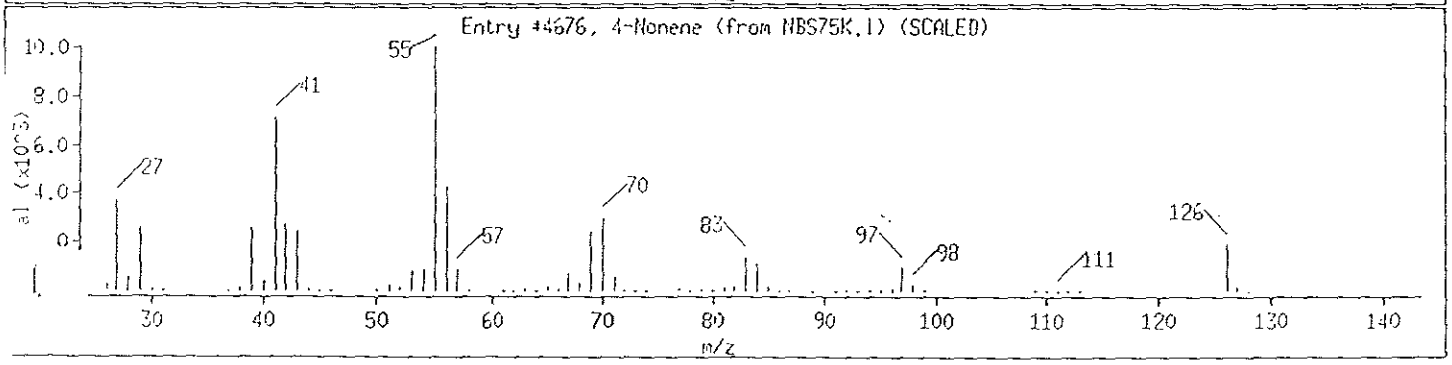
Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cycloheptanone, 4-methyl-, (R)-	13609-59-1	NBS75K.l	4566	53	C8H14O	126
Cyclopropane, 1,1,2,3-tetramethyl-	74752-93-5	NBS75K.l	1345	49	C7H14	98
4-Nonene	2198-23-4	NBS75K.l	4676	45	C9H18	126









Data File: /chem/msc.i/c012296.b/c7981.d

Date : 22-JAN-96 05:08

Client ID: 17418n clj78cs004

Instrument: msc.i

Sample Info: 17418n clj78cs004

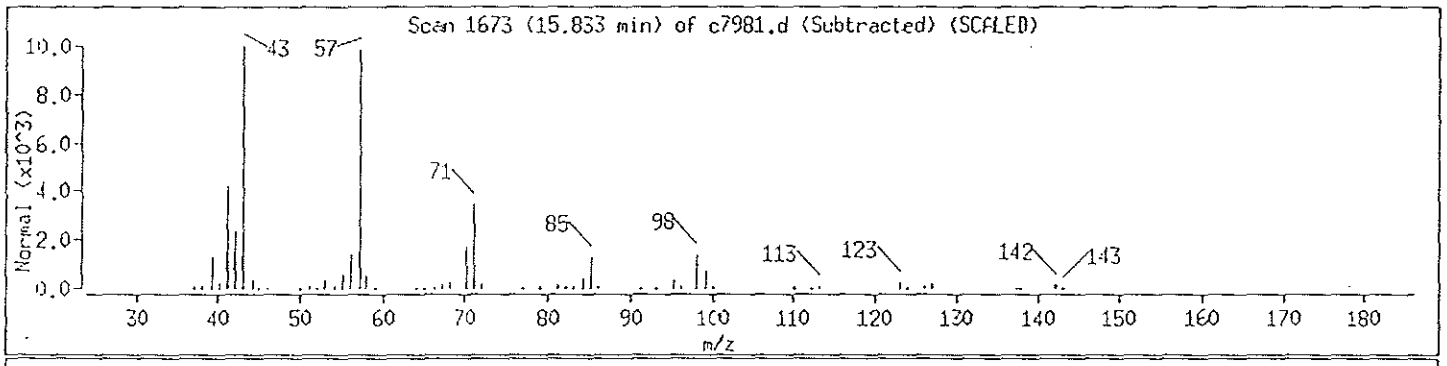
Purge Volume: 1.0

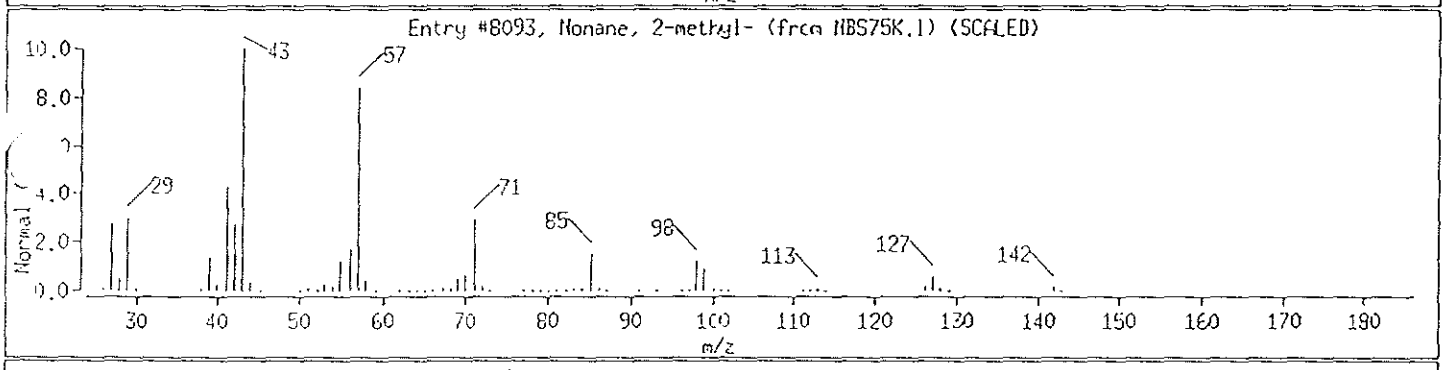
Operator: jk

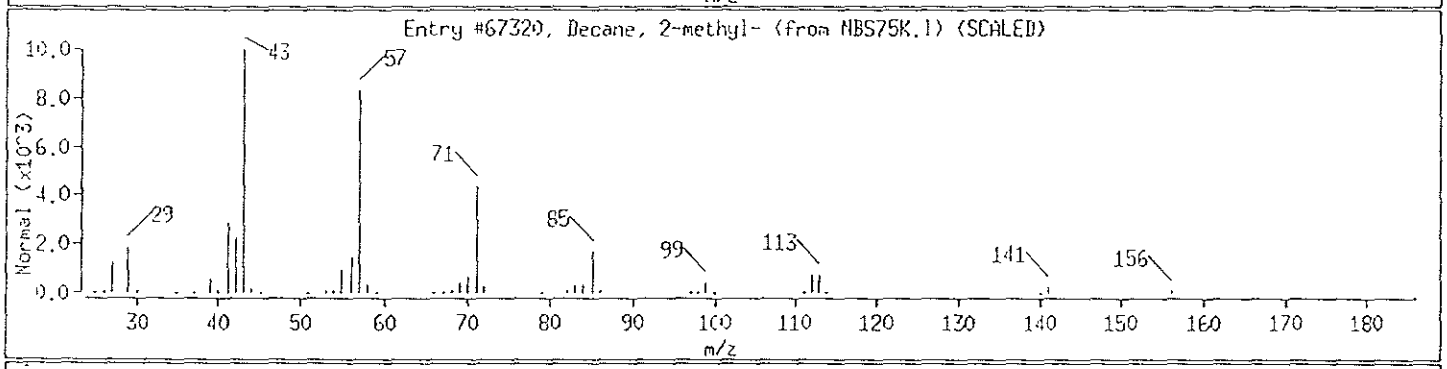
Column phase: J&W DB_624

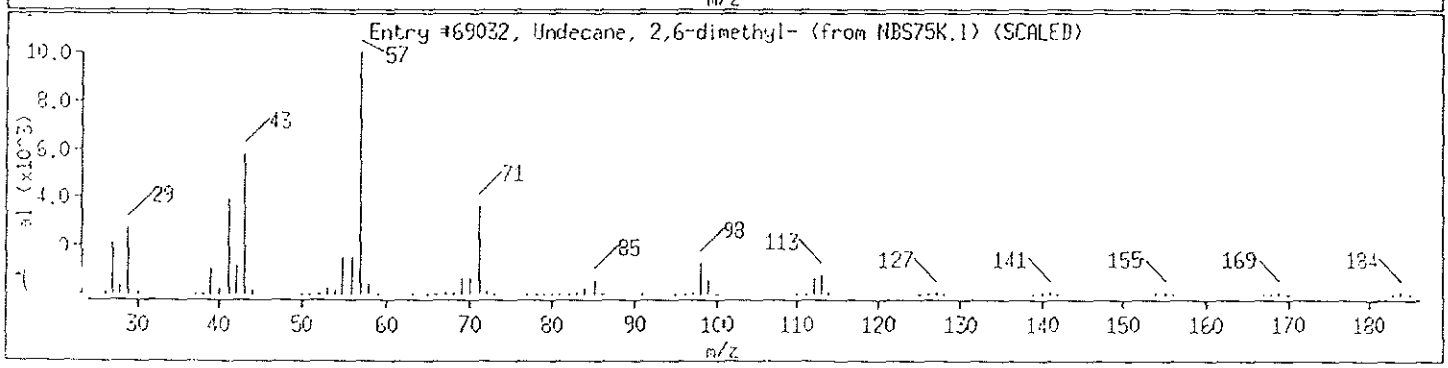
Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonane, 2-methyl-	871-83-0	NBS75K.1	8093	87	C10H22	142
Decane, 2-methyl-	6975-98-0	NBS75K.1	67320	64	C11H24	156
Undecane, 2,6-dimethyl-	17301-23-4	NBS75K.1	69032	59	C13H28	184









Data File: /chem/msc.i/c012296.b/c7981.d

Date : 22-JAN-96 05:08

Client ID: 17418n clj78cs004

Instrument: msc.i

Sample Info: 17418n clj78cs004

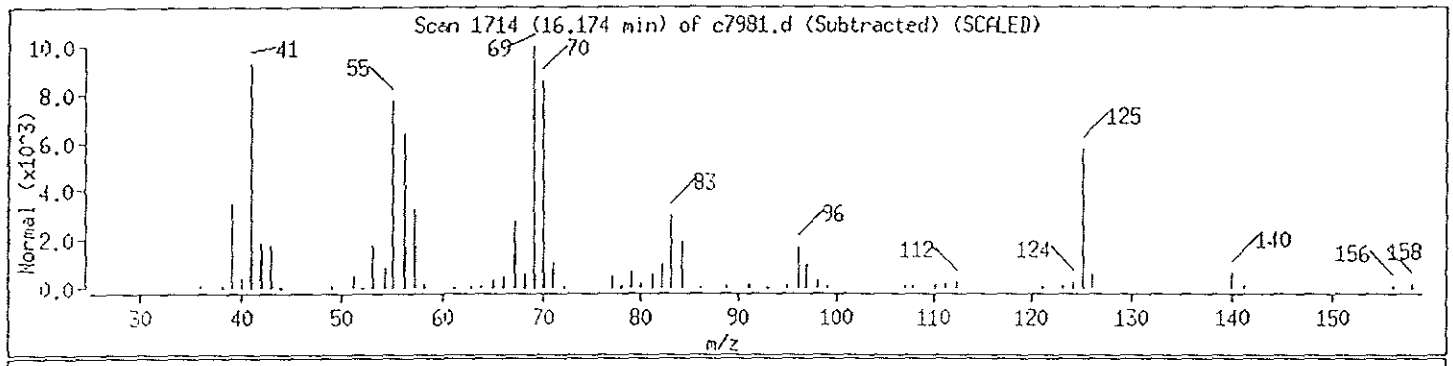
Purge Volume: 1.0

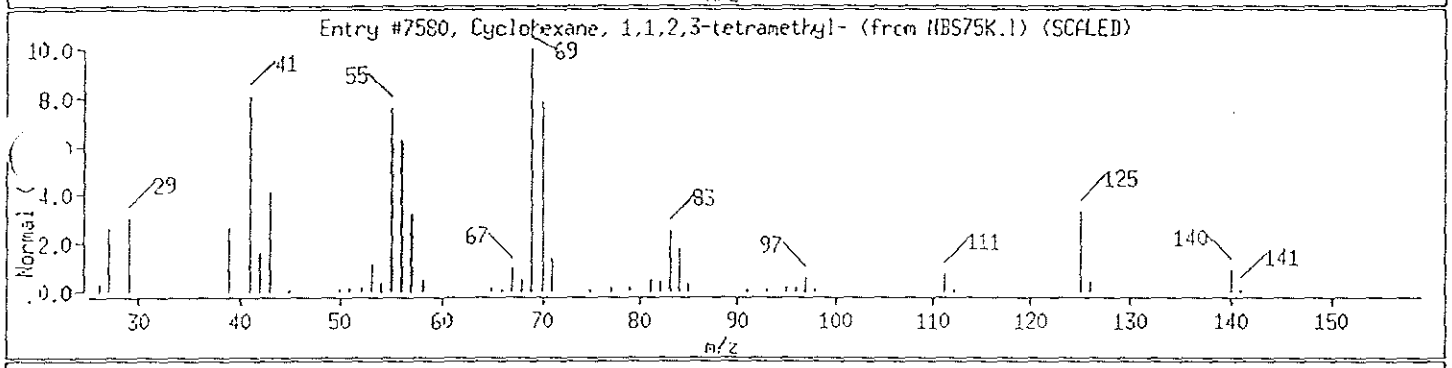
Operator: jk

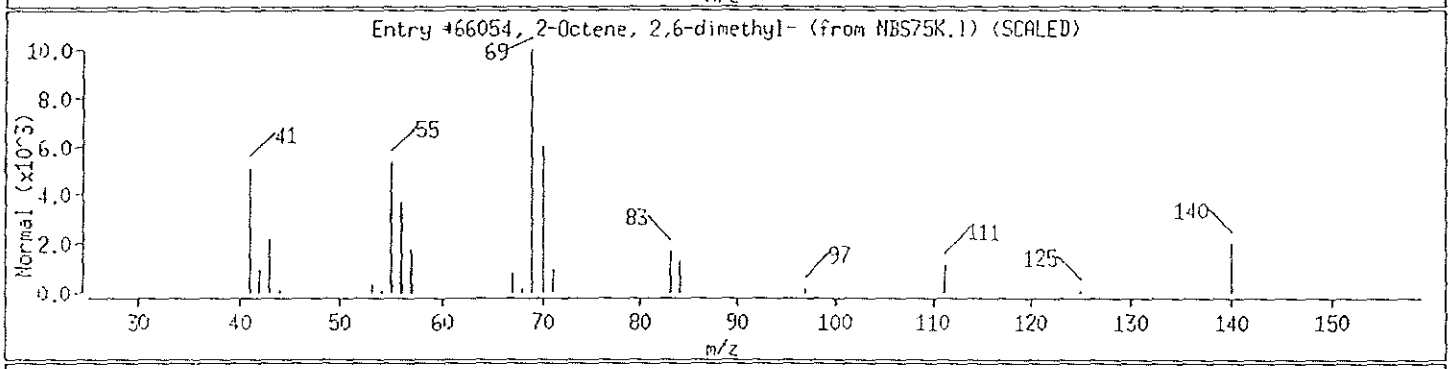
Column phase: J&W DB_624

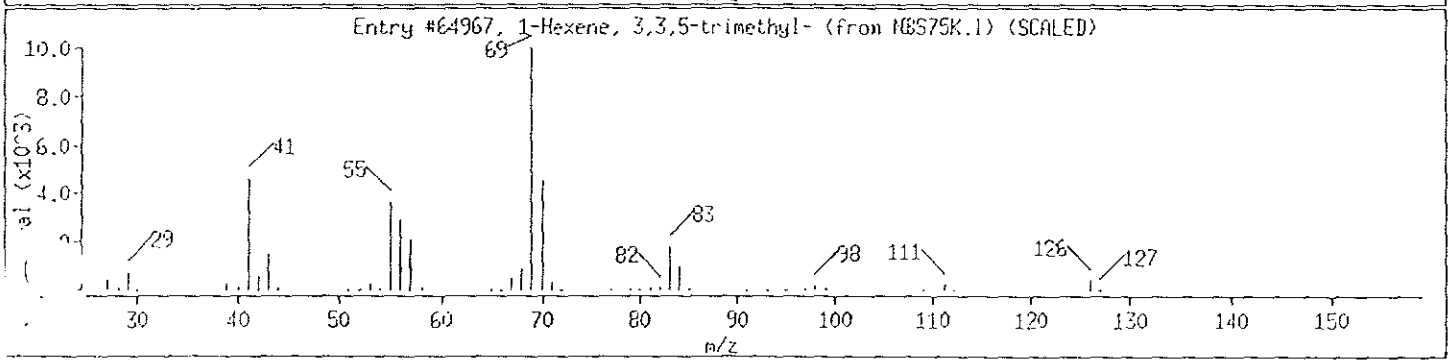
Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexane, 1,1,2,3-tetramethyl-	6783-92-2	NBS75K.1	7580	58	C10H20	140
2-Octene, 2,6-dimethyl-	4057-42-5	NBS75K.1	66054	58	C10H20	140
1-Hexene, 3,3,5-trimethyl-	13427-43-5	NBS75K.1	64967	49	C9H18	126









Data File: /chem/msc.i/c012296.b/c7981.d

Date : 22-JAN-96 05:08

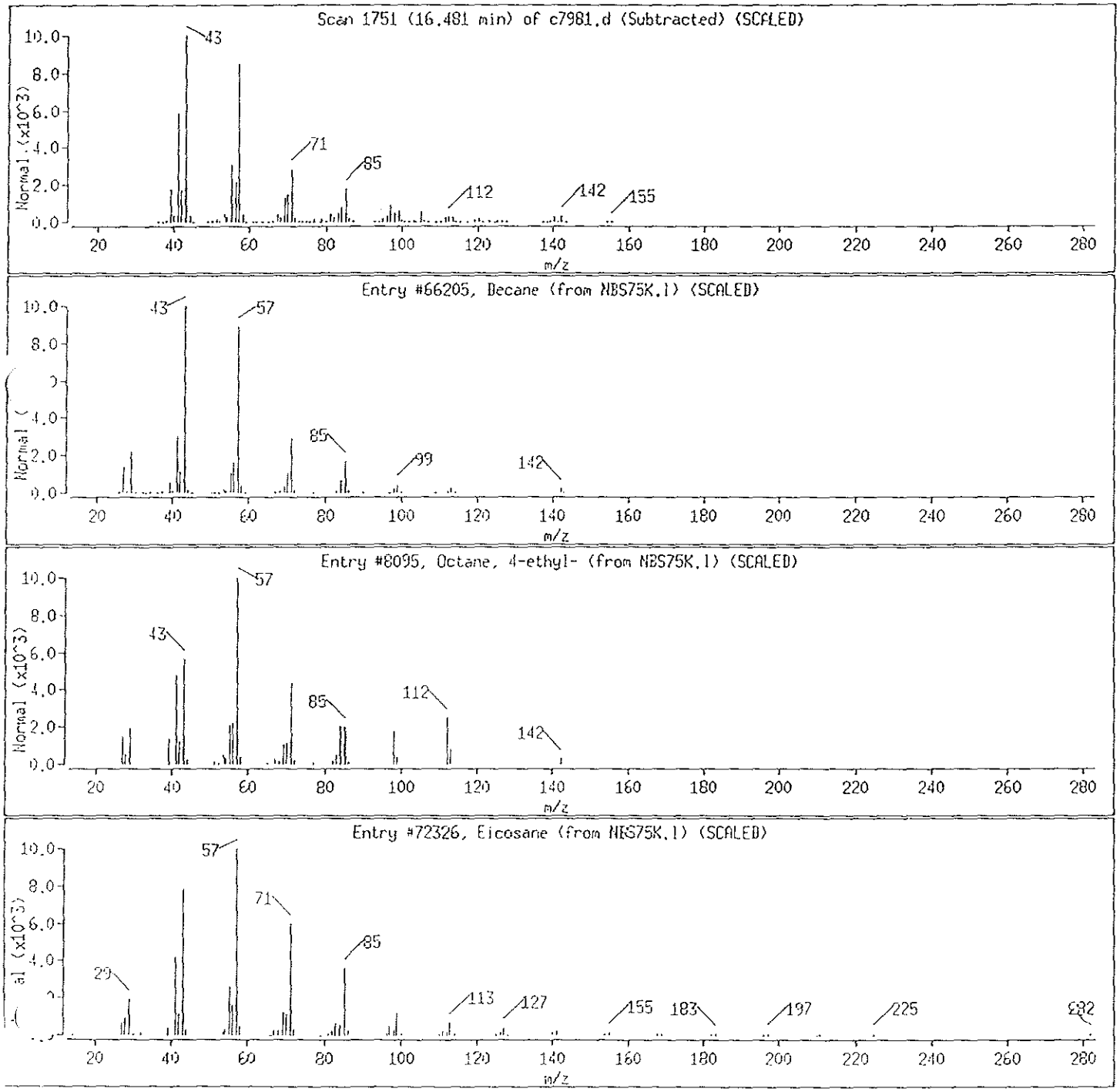
Client ID: 17418n clj78cs004 Instrument: msc.i

Sample Info: 17418n clj78cs004

Purge Volume: 1.0 Operator: jk

Column phase: J&W DB_624 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decane	124-18-5	NBS75K.l	66205	87	C10H22	142
Octane, 4-ethyl-	15869-86-0	NBS75K.l	8095	80	C10H22	142
Eicosane	112-95-8	NBS75K.l	72326	59	C20H42	282



Data File: /chem/msc.i/c012296.b/c7981.d

Date : 22-JAN-96 05:08

Client ID: 17418n clj78cs004

Instrument: msc.i

Sample Info: 17418n clj78cs004

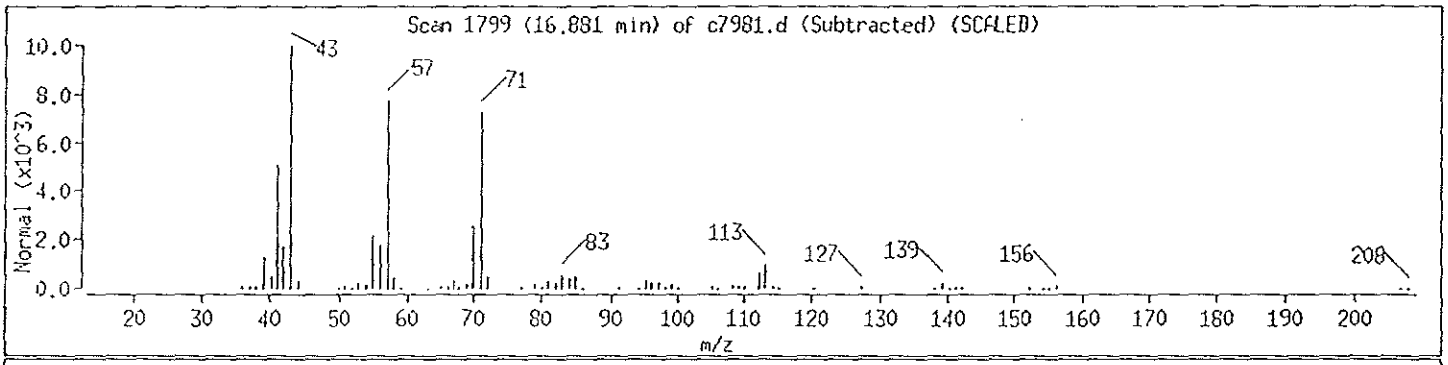
Purge Volume: 1.0

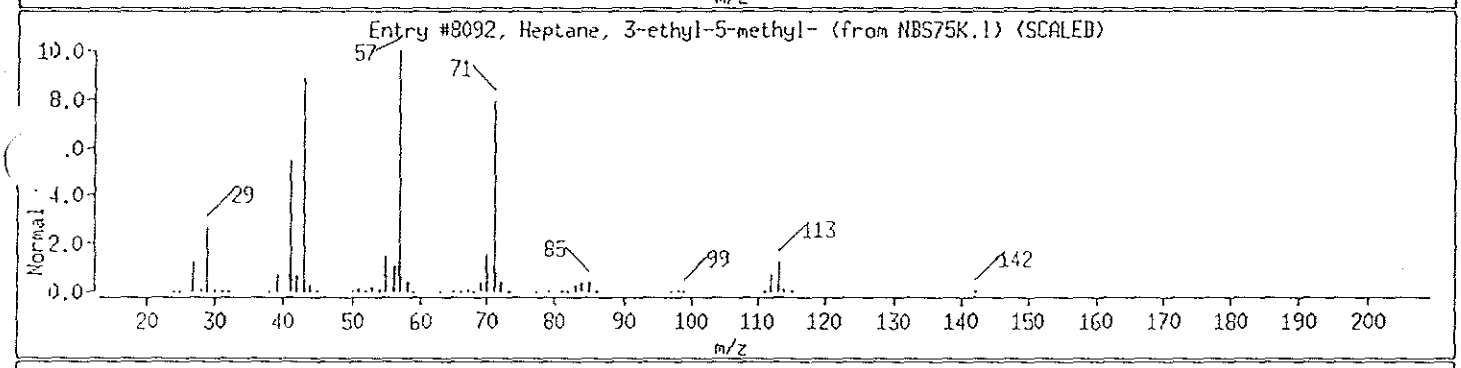
Operator: jk

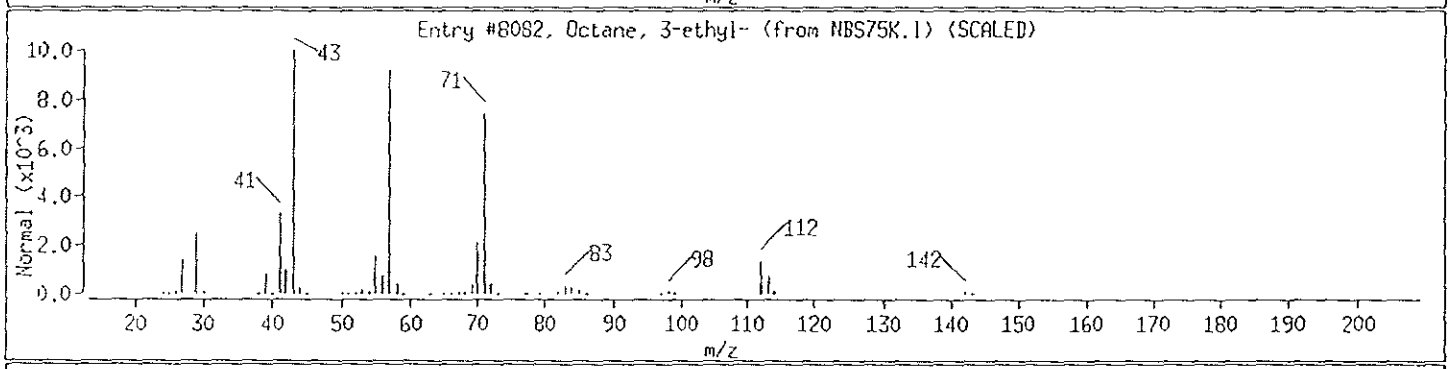
Column phase: J&W DB_624

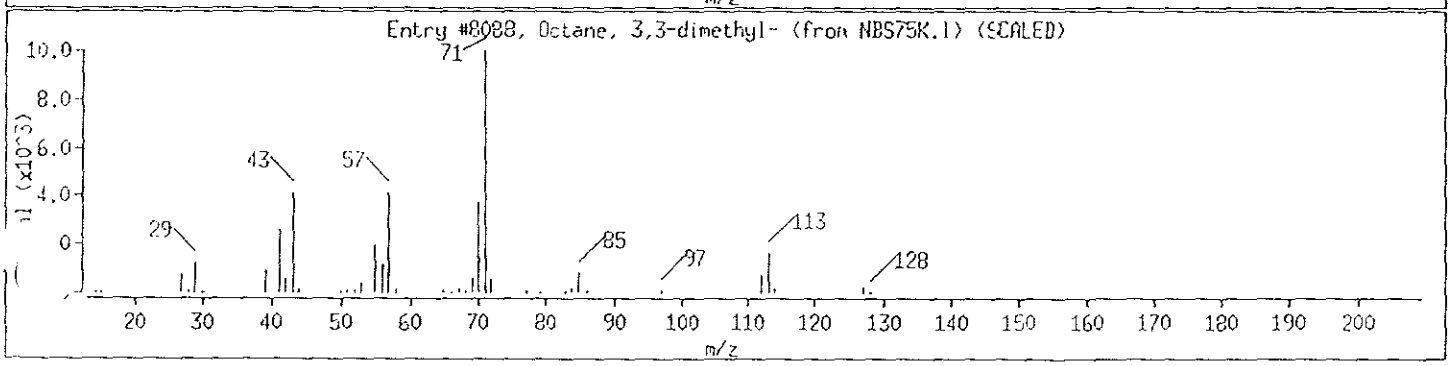
Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Heptane, 3-ethyl-5-methyl-	52896-90-9	NBS75K.1	8092	87	C10H22	142
Octane, 3-ethyl-	5881-17-4	NBS75K.1	8082	87	C10H22	142
Octane, 3,3-dimethyl-	4110-44-5	NBS75K.1	8088	86	C10H22	142









Data File: /chem/msc.i/c012296.b/c7981.d

Date : 22-JAN-96 05:08

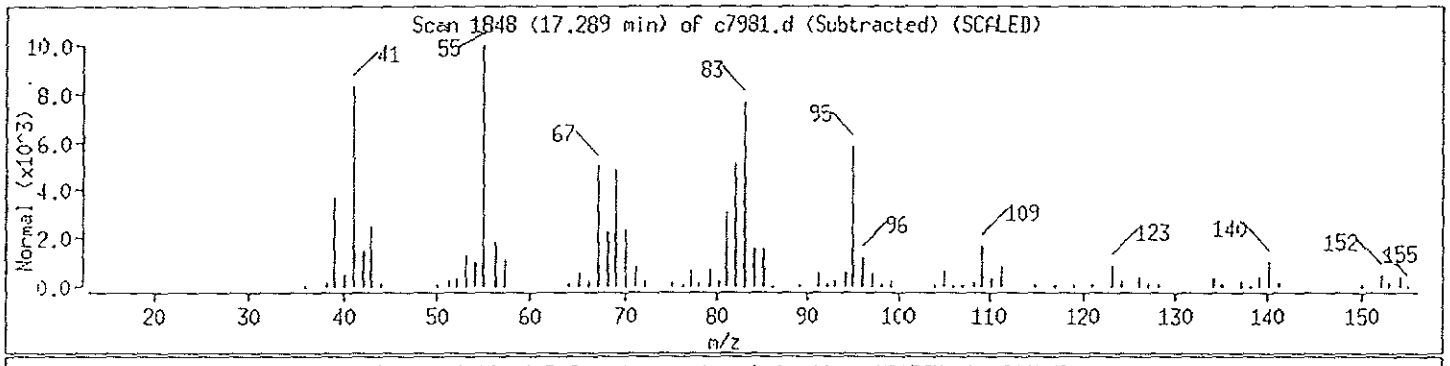
Client ID: 17418n clj78cs004 Instrument: msc.i

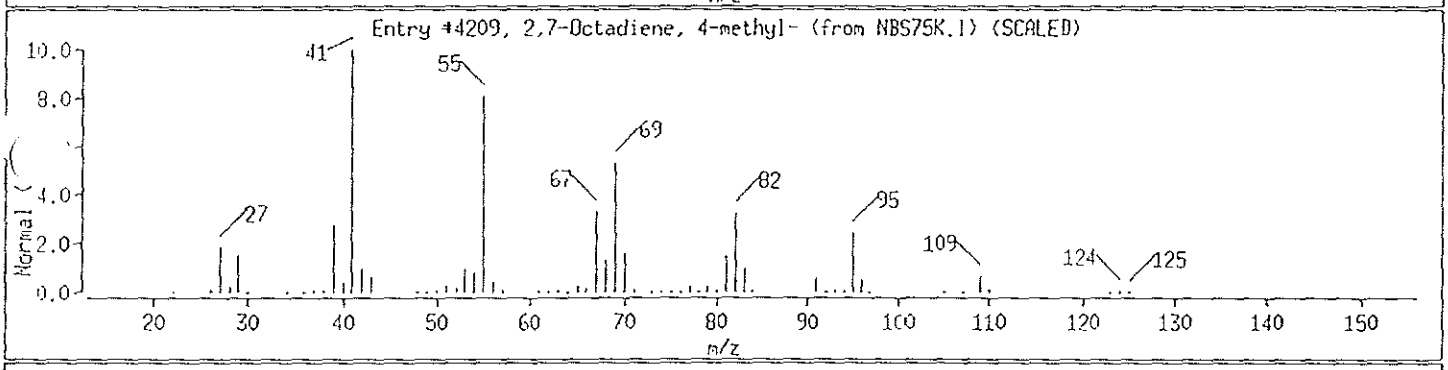
Sample Info: 17418n clj78cs004

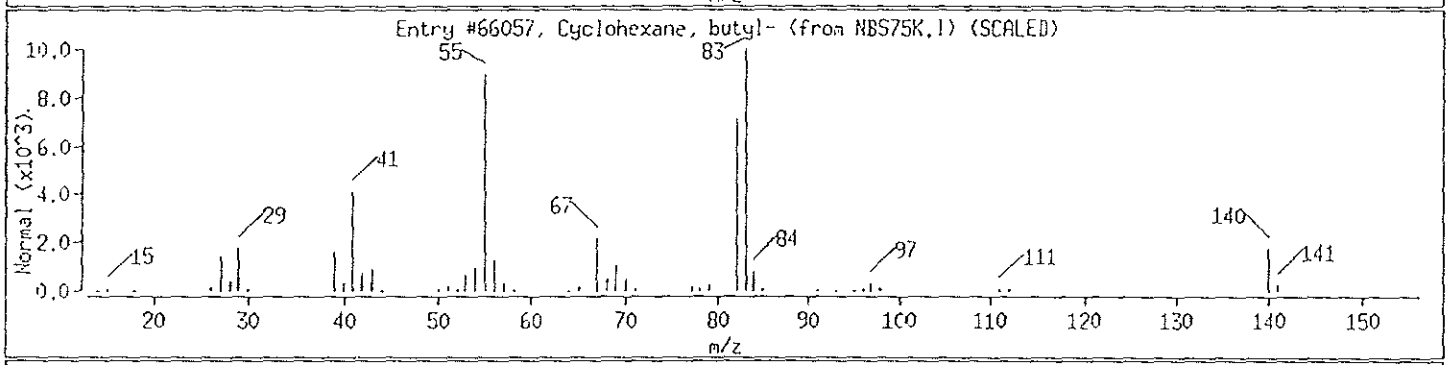
Purge Volume: 1.0 Operator: jk

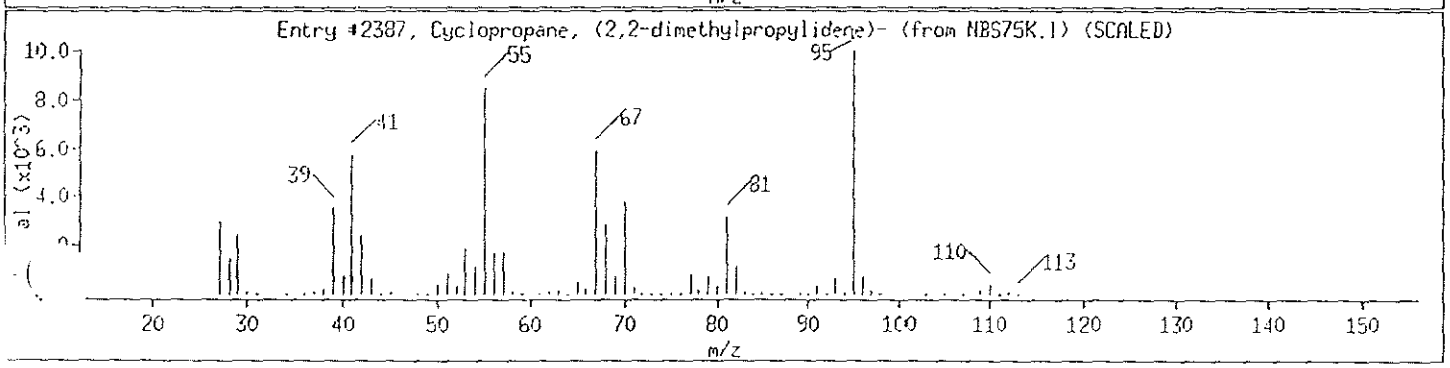
Column phase: J&W DB_624 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2,7-Octadiene, 4-methyl-	0-00-0	NBS75K.l	4209	60	C9H16	124
Cyclohexane, butyl-	1678-93-9	NBS75K.l	66057	43	C10H20	140
Cyclopropane, (2,2-dimethylpropylidene)-	39647-71-7	NBS75K.l	2387	42	C6H14	110









Data File: /chem/msc.i/c012296.b/c7981.d

Date : 22-JAN-96 05:08

Client ID: 17418n clj78cs004

Instrument: msc.i

Sample Info: 17418n clj78cs004

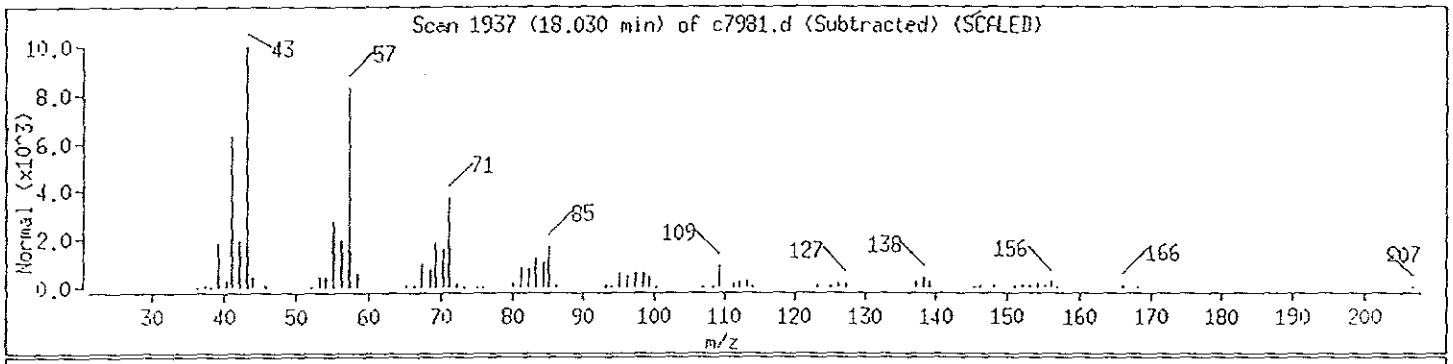
Purge Volume: 1.0

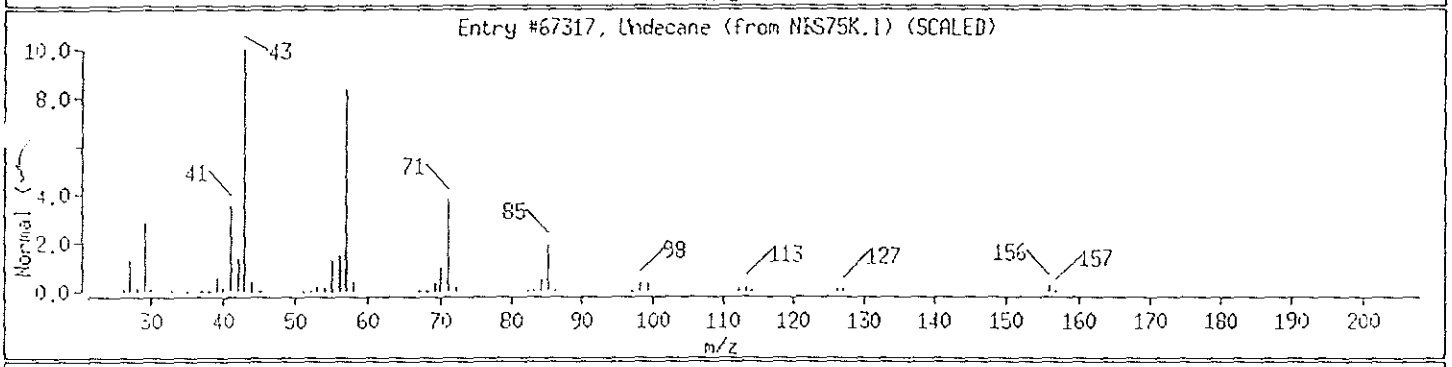
Operator: jk

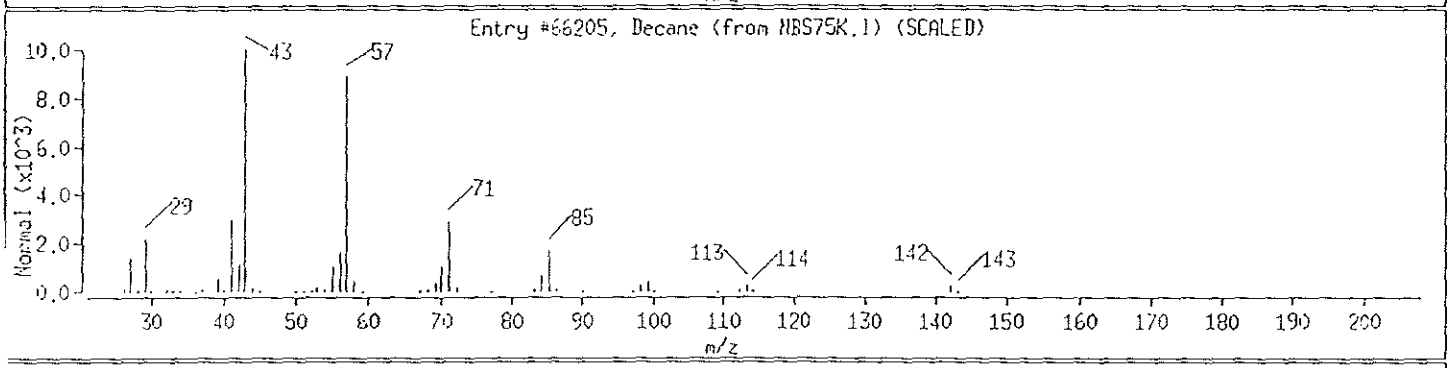
Column phase: J&W DB_624

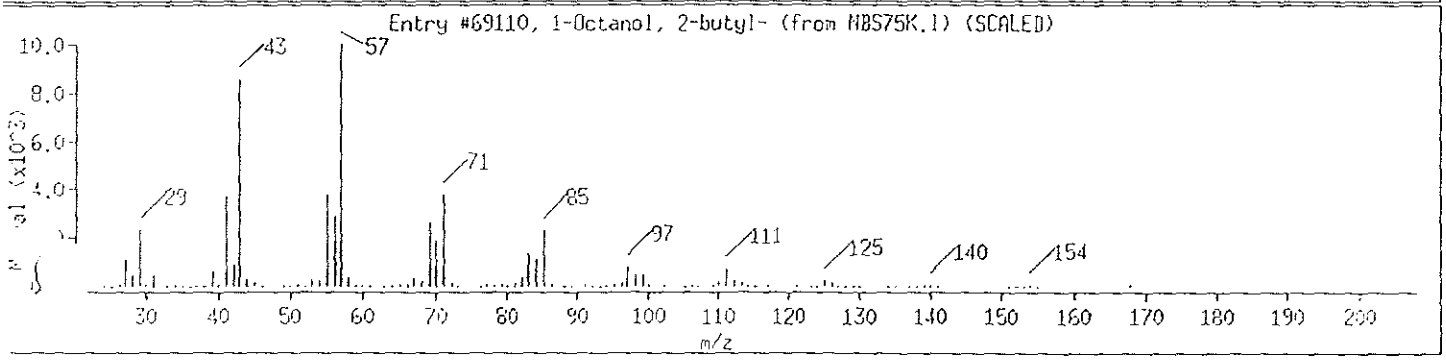
Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Undecane	1120-21-4	NBS75K.1	67317	74	C11H24	156
Decane	124-18-5	NBS75K.1	66205	64	C10H22	142
1-Octanol, 2-butyl-	3913-02-8	NBS75K.1	69110	64	C12H26O	186









Data File: /chem/msc.i/c012296.b/c7981.d

Date : 22-JAN-96 05:08

Client ID: 17418n clj78cs004

Instrument: msc.i

Sample Info: 17418n clj78cs004

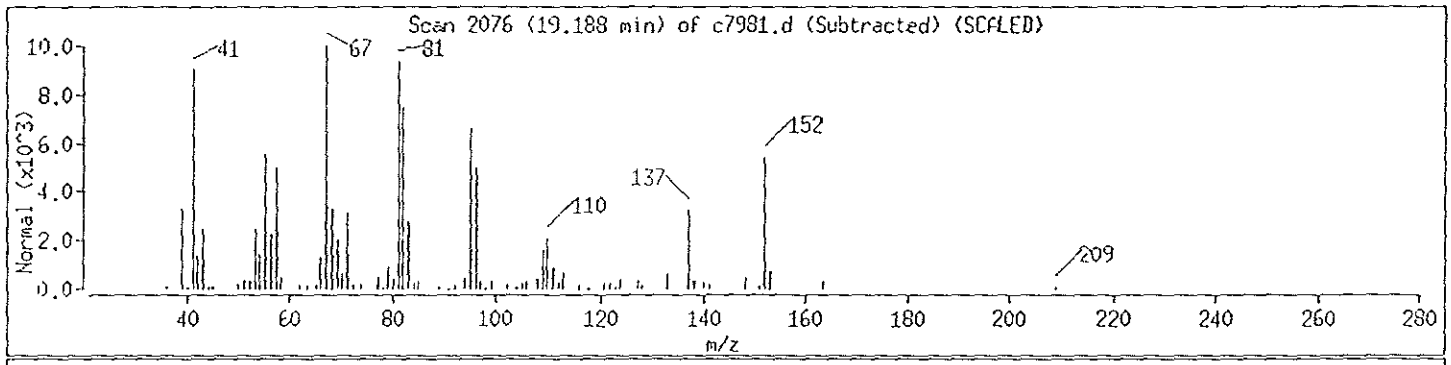
Purge Volume: 1.0

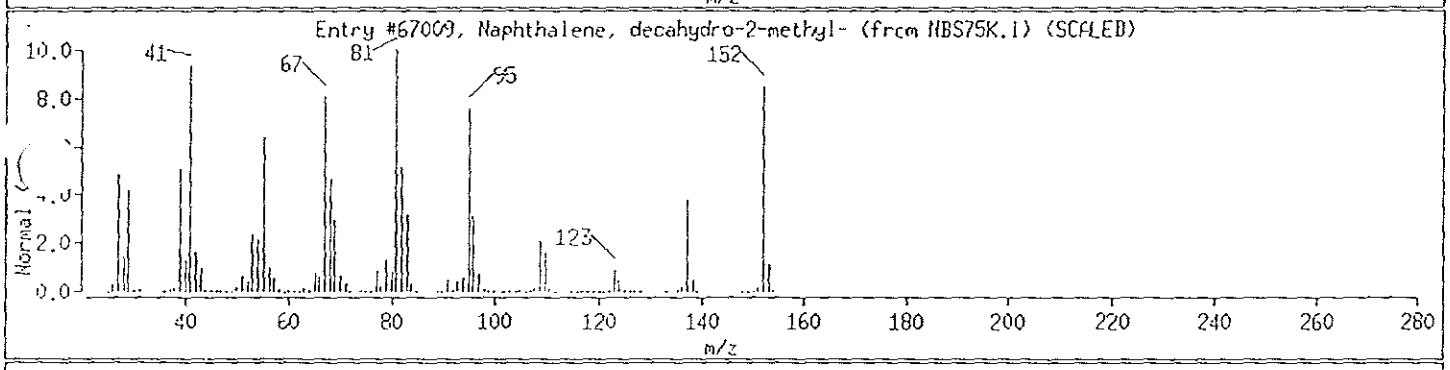
Operator: jk

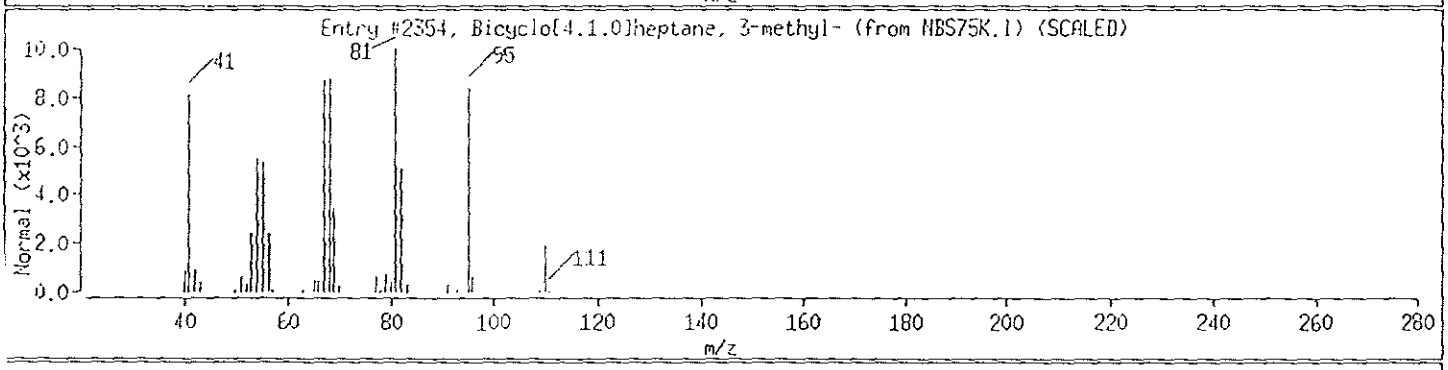
Column phase: J&W DB_624

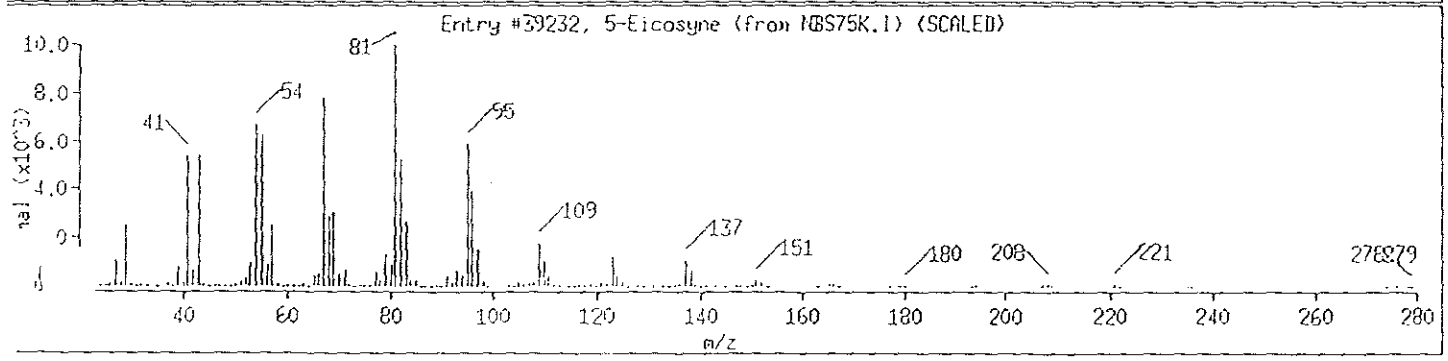
Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, decahydro-2-methyl-	2958-76-1	NBS75K.l	67009	92	C11H20	152
Bicyclo[4.1.0]heptane, 3-methyl-	41977-47-3	NBS75K.l	2354	78	C8H14	110
5-Eicosyne	74685-31-7	NBS75K.l	39232	59	C20H38	278









1A
VOLATILE ORGANICS ANALYSIS DATA SHEET 0077

EPA SAMPLE NO.

CLJ78CS005

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2495V

Sample wt/vol: ~~2.13~~ 4.27 (g/mL) G Lab File ID: C7982

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: not dec. 16 Date Analyzed: 01/22/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 50.0

Soil Extract Volume: ~~5000~~ 10000 (uL) Soil Aliquot Volume: 100 (uL)

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	700	U
74-83-9	Bromomethane	700	U
75-01-4	Vinyl Chloride	700	U
75-00-3	Chloroethane	700	U
75-09-2	Methylene Chloride	700	U
67-64-1	Acetone	1400	U
75-15-0	Carbon Disulfide	700	U
75-35-4	1,1-Dichloroethene	700	U
75-34-3	1,1-Dichloroethane	700	U
540-59-0	1,2-Dichloroethene (total)	1700	
67-66-3	Chloroform	700	U
107-06-2	1,2-Dichloroethane	700	U
78-93-3	2-Butanone	700	U
71-55-6	1,1,1-Trichloroethane	700	U
56-23-5	Carbon Tetrachloride	700	U
75-27-4	Bromodichloromethane	700	U
78-87-5	1,2-Dichloropropane	700	U
10061-01-5	cis-1,3-Dichloropropene	700	U
79-01-6	Trichloroethene	700	U
124-48-1	Dibromochloromethane	700	U
79-00-5	1,1,2-Trichloroethane	700	U
71-43-2	Benzene	700	U
10061-02-6	trans-1,3-Dichloropropene	700	U
75-25-2	Bromoform	700	U
108-10-1	Methyl-iso-butyl ketone	1400	U
591-78-6	2-Hexanone	700	U
127-18-4	Tetrachloroethylene	2600	
79-34-5	1,1,2,2-Tetrachloroethane	700	U
108-88-3	Toluene	700	U
108-90-7	Chlorobenzene	700	U
100-41-4	Ethylbenzene	700	U
100-42-5	Styrene	700	U
1330-20-7	Xylene (total)	700	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET 0078
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CLJ78CS005

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

b Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2495V

Sample wt/vol: ~~2.13 AS~~ 4.27 (g/mL) G Lab File ID: C7982

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: not dec. 16 Date Analyzed: 01/22/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 50.0

Soil Extract Volume: ~~5000 AS~~ 10000 (uL) Soil Aliquot Volume: 100 (uL)

Number TICs found: 10

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

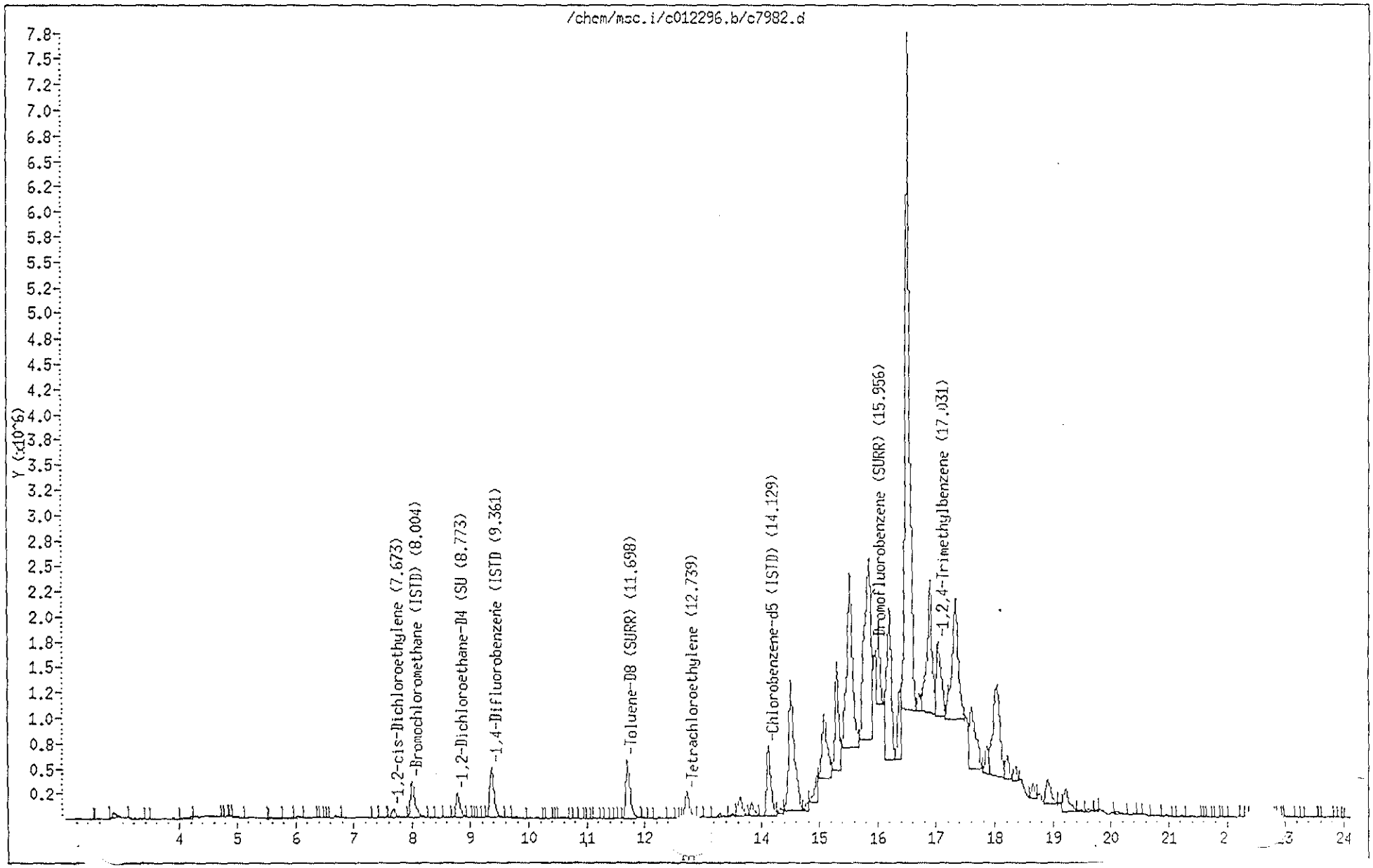
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 111-84-2	Nonane	14.51	18000	JN
2. 5911-04-6	Nonane, 3-methyl-	15.30	9300	JN
3.	Unk hydrocarbon	15.52	23000	J
4. 871-83-0	Nonane, 2-methyl-	15.86	28000	JN
5.	Unk hydrocarbon	16.20	17000	J
6. 124-18-5	Decane	16.51	68000	JN
7. 17302-28-2	Nonane, 2,6-dimethyl-	16.90	16000	JN
8.	Unk hydrocarbon	17.33	17000	J
9.	Unk hydrocarbon	17.60	9500	J
10.	unknown	18.05	16000	J

00079

Data File: /chem/msc.i/c012296.b/c7982.d
Date : 22-JAN-96 05:39
Client ID: 17418n clj78cs005
Sample Info: 17418n clj78cs005
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i

Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c012296.b/c7982.d
Report Date: 22-Jan-1996 10:17

OHM Analytical Division

& Screen

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msc.i/c012296.b/c7982.d
Lab Smp Id: Client Smp ID: 17418n clj78cs005
Inj Date : 22-JAN-96 05:39
Operator : jk Inst ID: msc.i
Smp Info : 17418n clj78cs005
Misc Info : jp2495v,n2v4914,m2,100,50,2.13,5.00,960121
Comment :
Method : /chem/msc.i/c012296.b/012196_ambic.m
Meth Date : 22-Jan-1996 08:31 glenn Quant Type: ISTD
Cal Date : 22-JAN-96 00:26 Cal File: c7973.d
Als bottle: 13
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

MC 1/22/96

#590

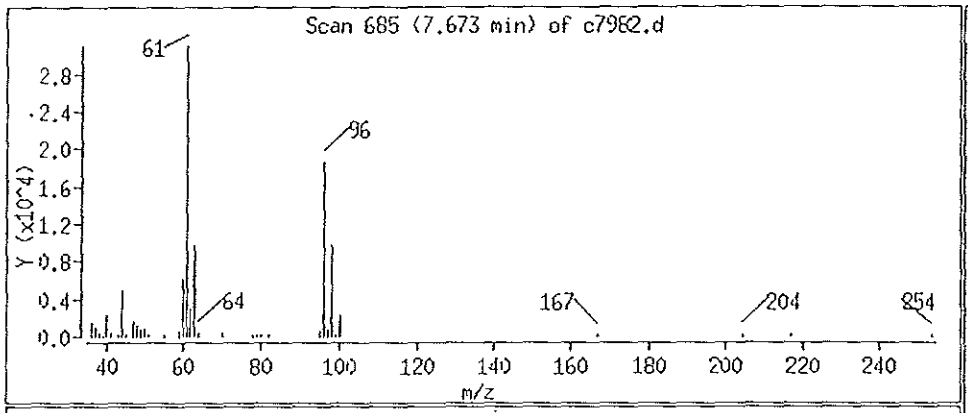
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
3 1,2-cis-Dichloroethylene	96.00	7.673	7.581	(0.960)	74383	12.2	12.2
Bromochloromethane (ISTD)	128.00	7.996	7.904	(1.000)	207346	50.0	
$ 1,2-Dichloroethane-D4 (SURR)	65.00	8.782	8.659	(1.098)	408675	49.5	49.5
* 30 1,4-Difluorobenzene (ISTD)	114.00	9.361	9.239	(1.000)	787920	50.0	
$ 38 Toluene-D8 (SURR)	98.00	11.706	11.573	(0.829)	871767	45.1	45.1
42 Tetrachloroethylene	164.00	12.739	12.592	(0.902)	155271	18.4	18.4
* 47 Chlorobenzene-d5 (ISTD)	117.00	14.129	13.991	(1.000)	821414	50.0	
$ 56 Bromofluorobenzene (SURR)	95.00	15.956	15.840	(1.129)	1010812	58.0	58.0(M)
65 1,2,4-Trimethylbenzene	105.00	17.039	16.937	(1.206)	553960	23.3	23.3

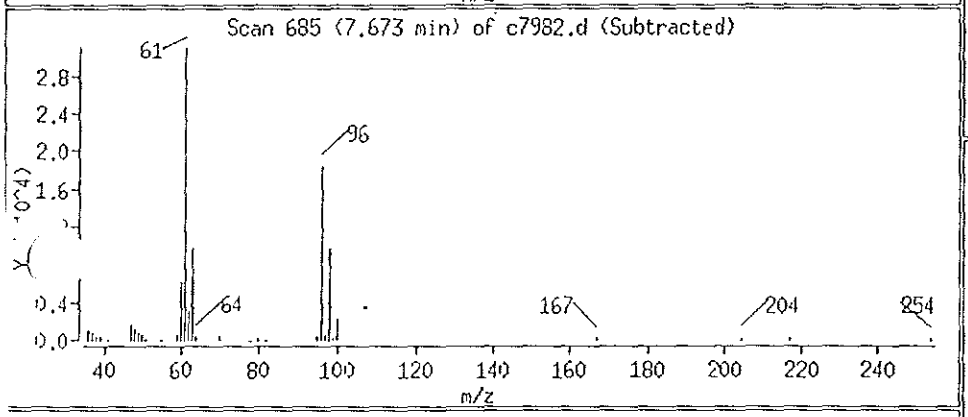
QC Flag Legend

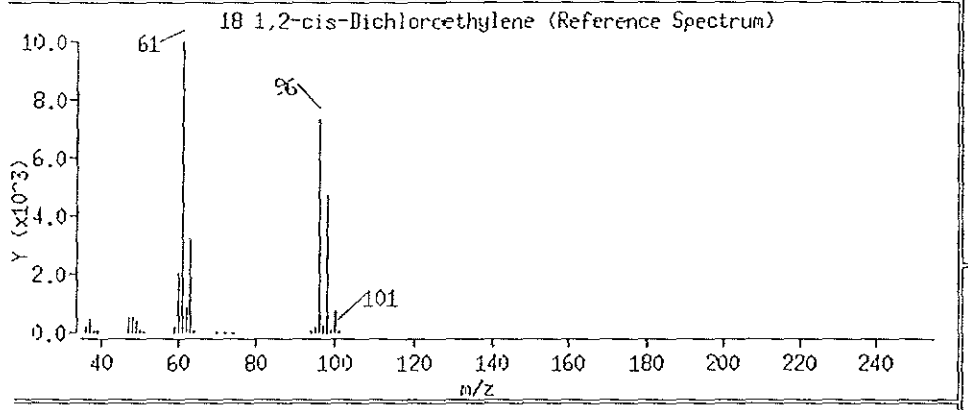
M - Compound response manually integrated.

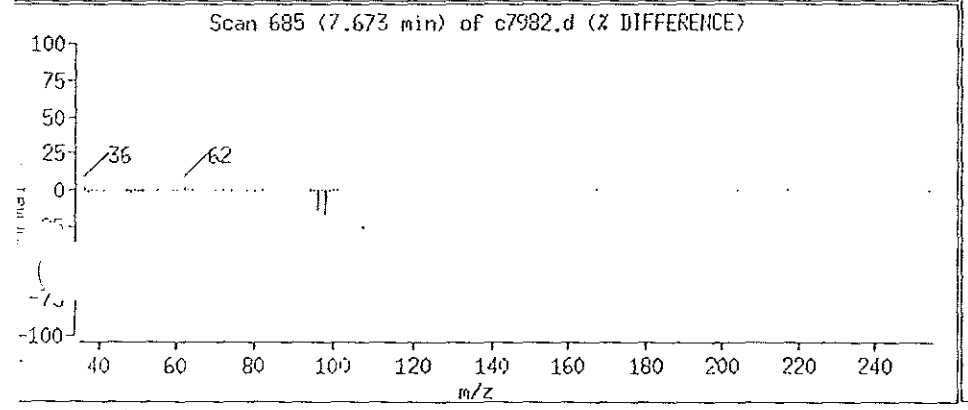
Data File: /chem/msc.i/c012296.b/c7982.d
Date : 22-JAN-96 05:39
Client ID: 17418n clj78cs005 Instrument: msc.i
Sample Info: 17418n clj78cs005
Purge Volume: 1.0 Operator: jk
Column phase: J&W DB_624 Column diameter: 0.53

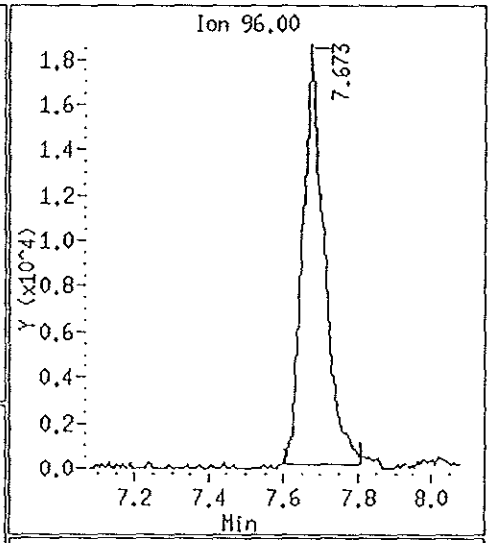
18 1,2-cis-Dichloroethylene

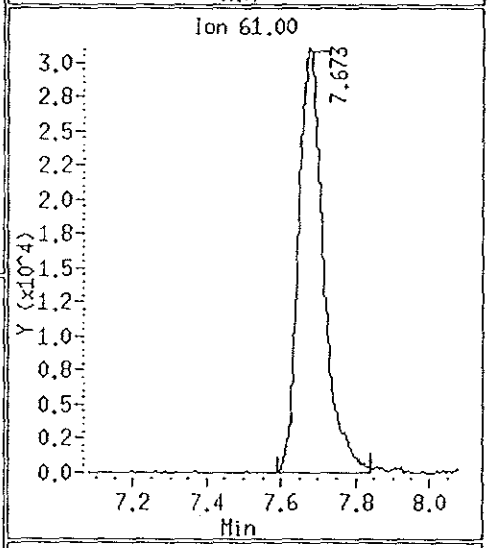


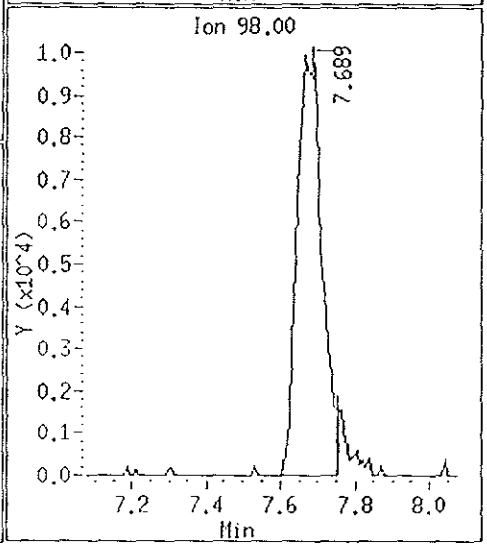












Data File: /chem/msc.i/c012296.b/c7982.d

Date : 22-JAN-96 05:39

Client ID: 17418n clj78cs005

Instrument: msc.i

Sample Info: 17418n clj78cs005

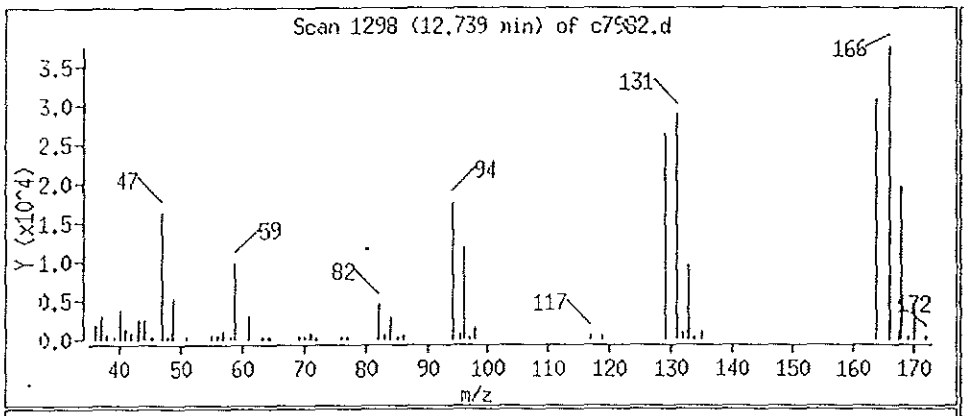
Purge Volume: 1.0

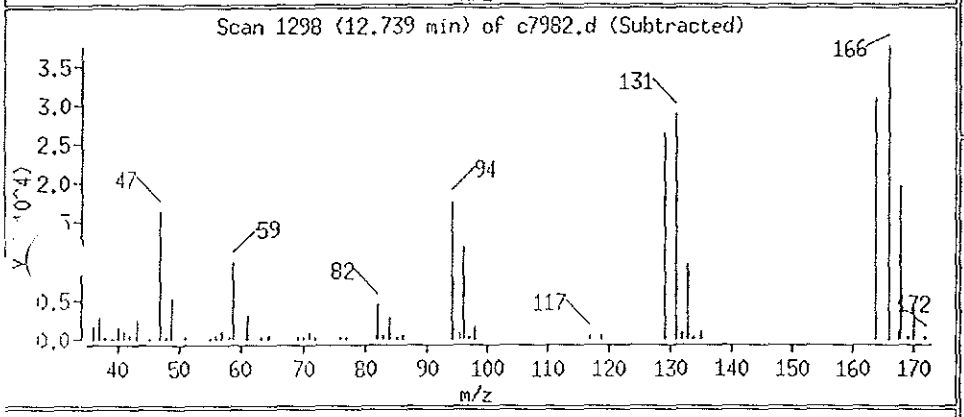
Operator: jk

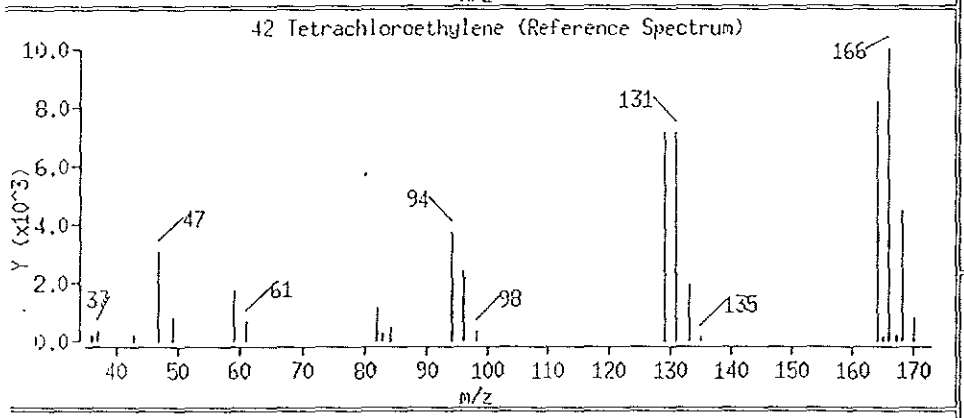
Column phase: J&W DB_624

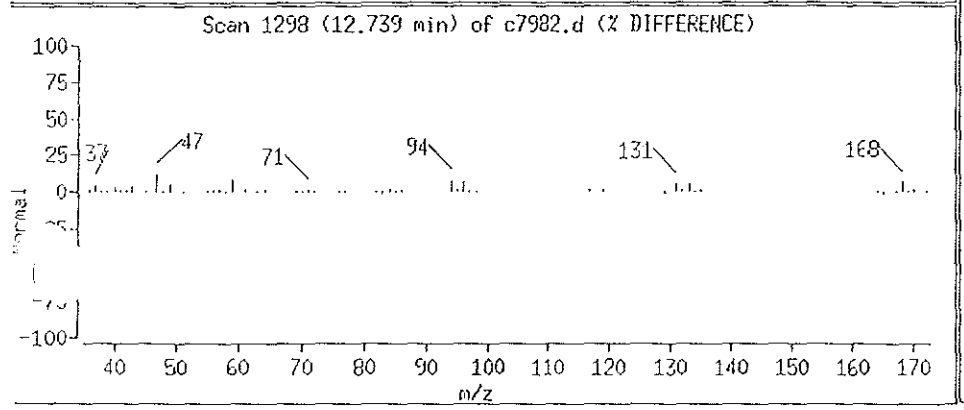
Column diameter: 0.53

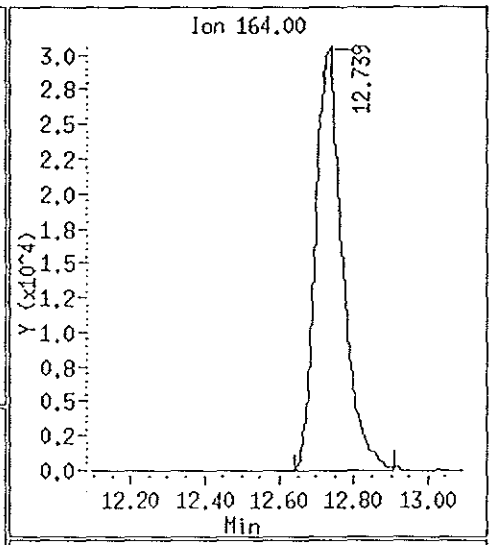
42 Tetrachloroethylene

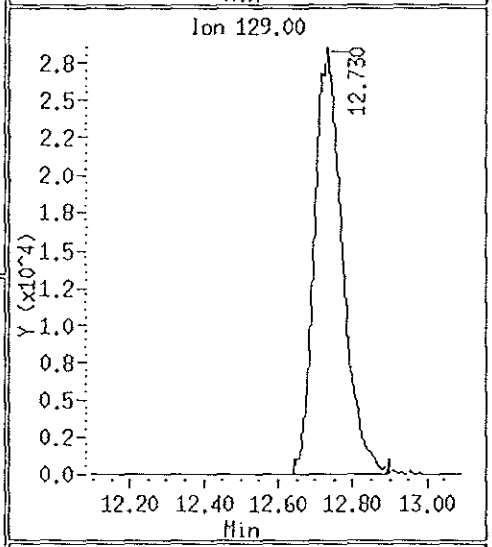


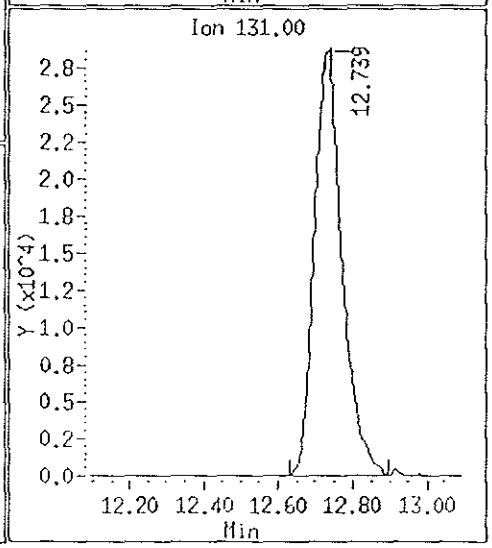






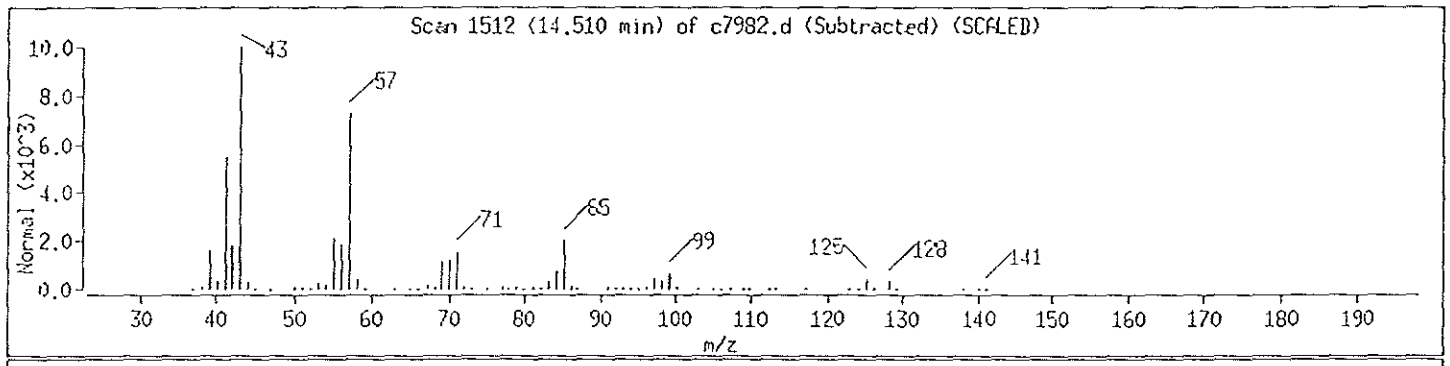


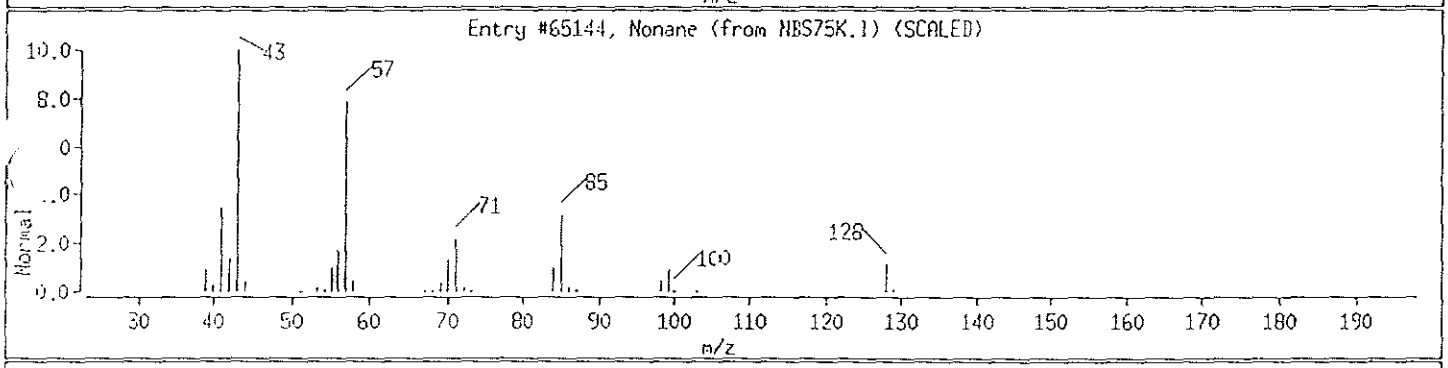


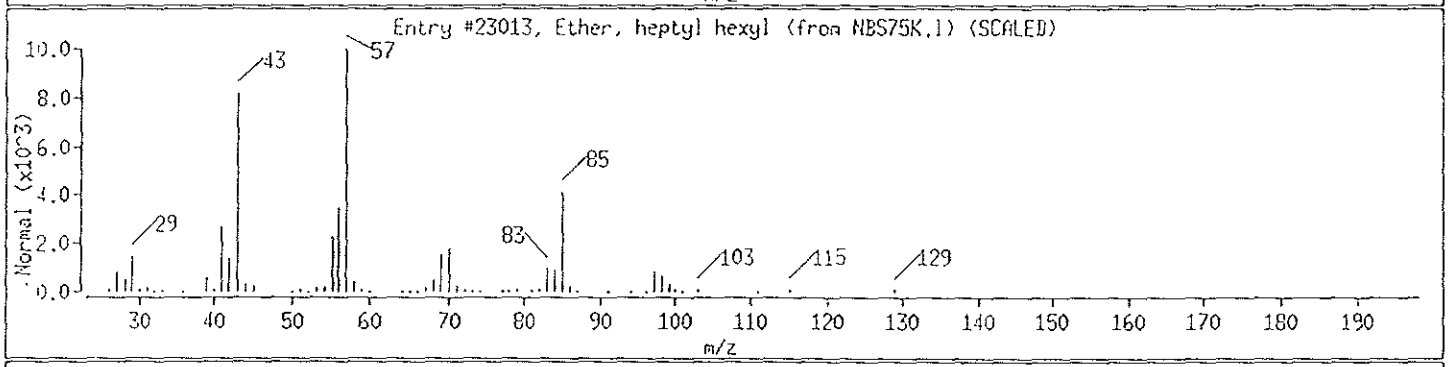


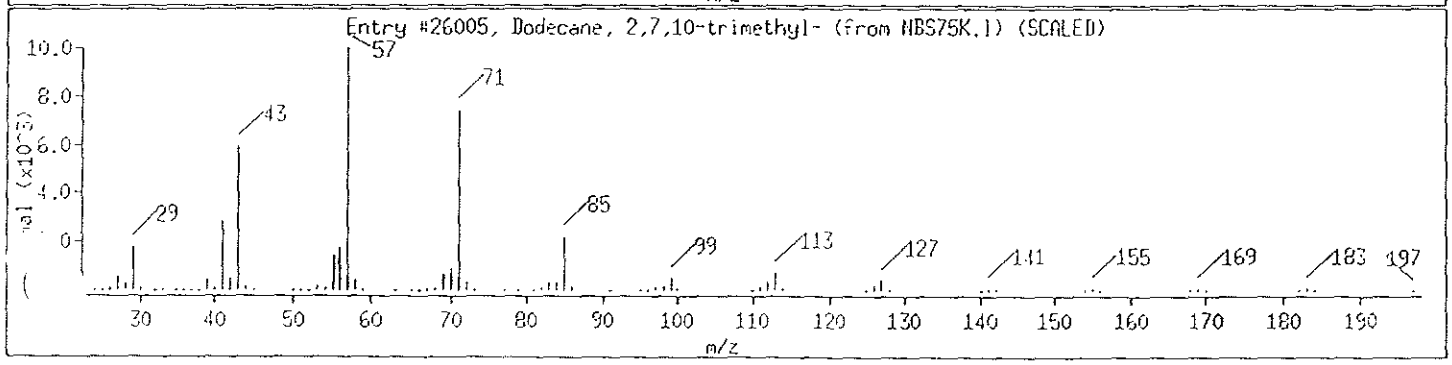
Data File: /chem/msc.i/c012296.b/c7982.d
Date : 22-JAN-96 05:39
Client ID: 17418n clj78cs005 Instrument: msc.i
Sample Info: 17418n clj78cs005
Purge Volume: 1.0 Operator: jk
Column phase: J&W DB_624 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonane	111-84-2	NBS75K.1	65144	93	C9H20	128
Ether, heptyl hexyl	7289-40-9	NBS75K.1	23013	59	C13H28O	200
Dodecane, 2,7,10-trimethyl-	74645-98-0	NBS75K.1	26005	53	C15H32	212









Data File: /chem/msc.i/c012296.b/c7982.d

Date : 22-JAN-96 05:39

Client ID: 17418n clj78cs005

Instrument: msc.i

Sample Info: 17418n clj78cs005

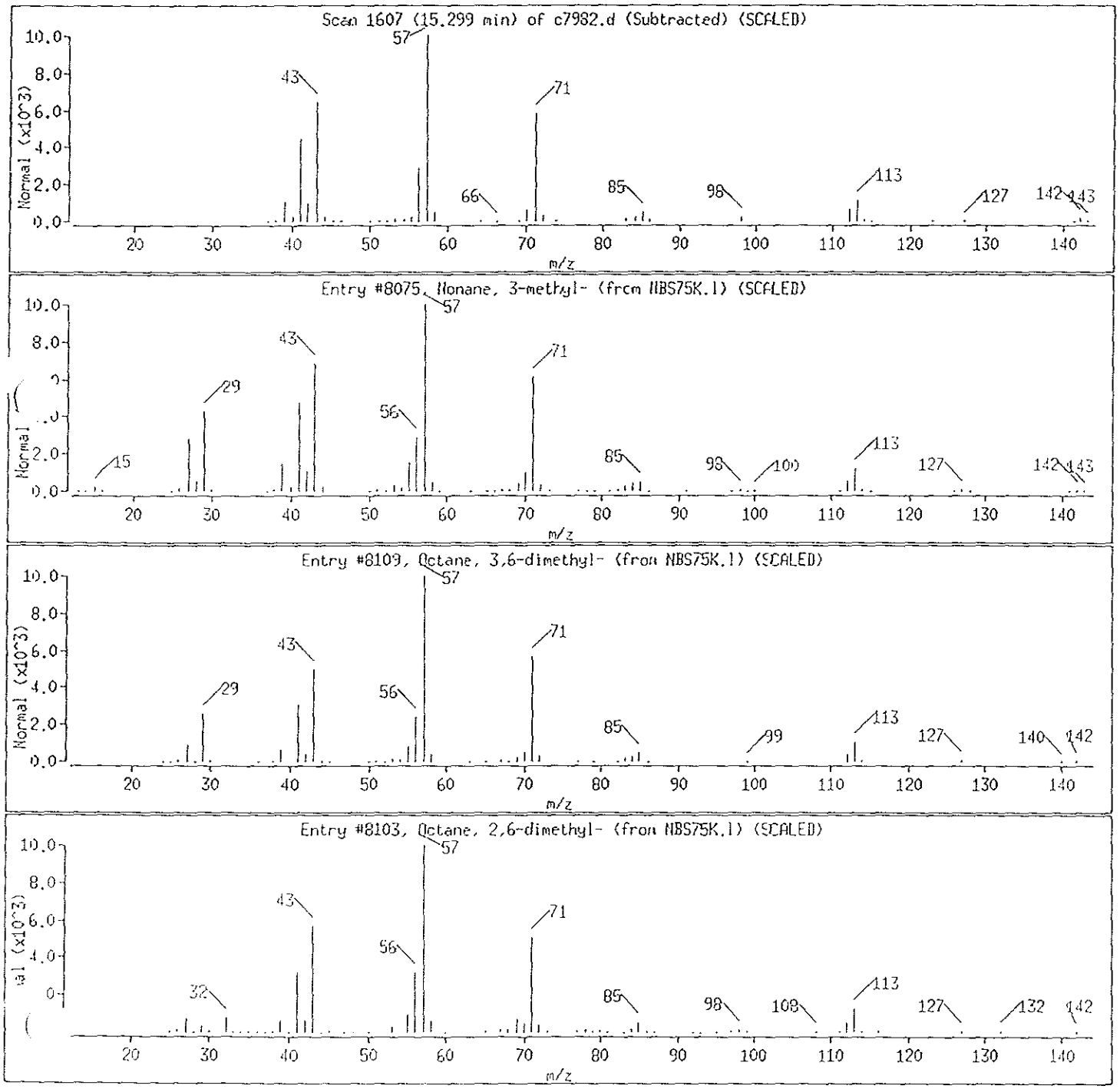
Purge Volume: 1.0

Operator: jk

Column phase: J&W DB_624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonane, 3-methyl-	5911-04-6	NBS75K.l	8075	91	C10H22	142
Octane, 3,6-dimethyl-	15869-94-0	NBS75K.l	8109	90	C10H22	142
Octane, 2,6-dimethyl-	2051-30-1	NBS75K.l	8103	72	C10H22	142



Data File: /chem/msc.i/c012296.b/c7982.d

Date : 22-JAN-96 05:39

Client ID: 17418n clj78cs005

Instrument: msc.i

Sample Info: 17418n clj78cs005

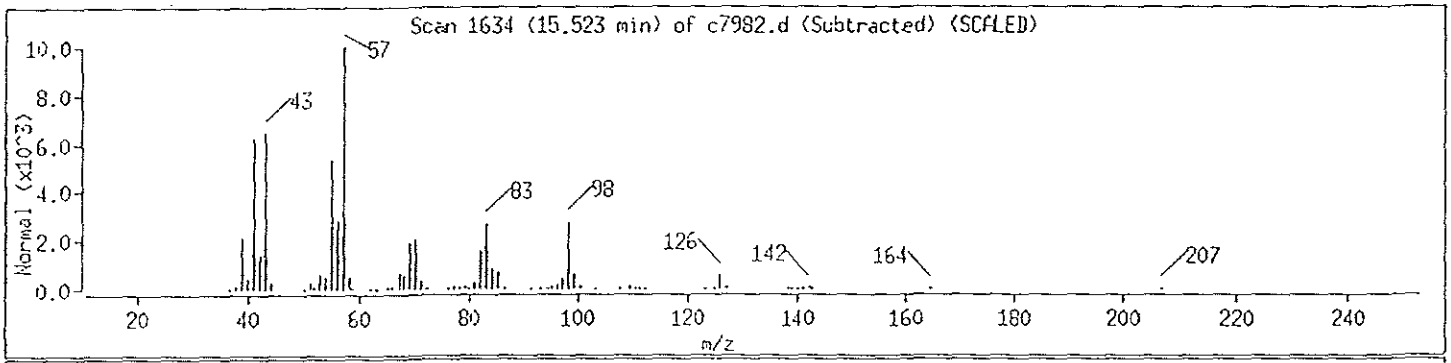
Purge Volume: 1.0

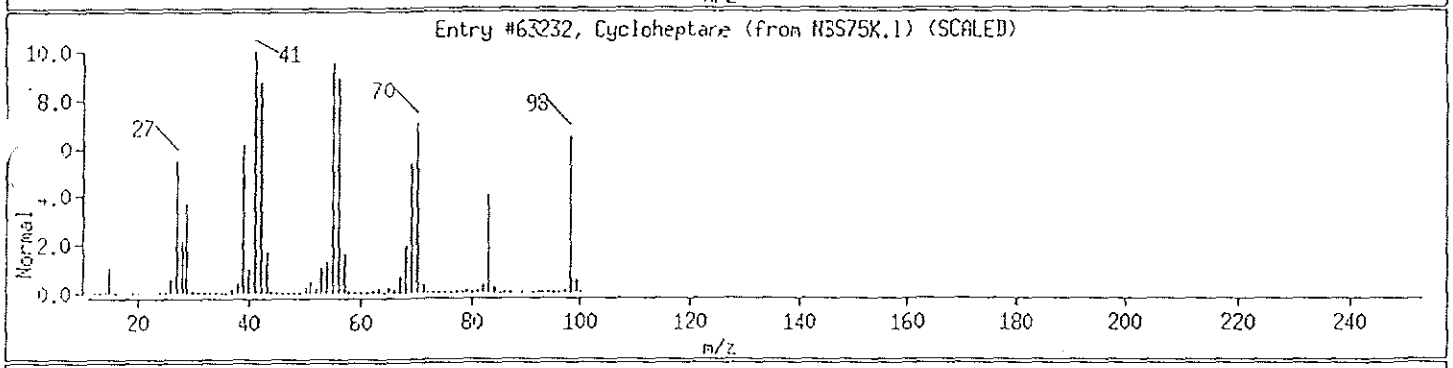
Operator: jk

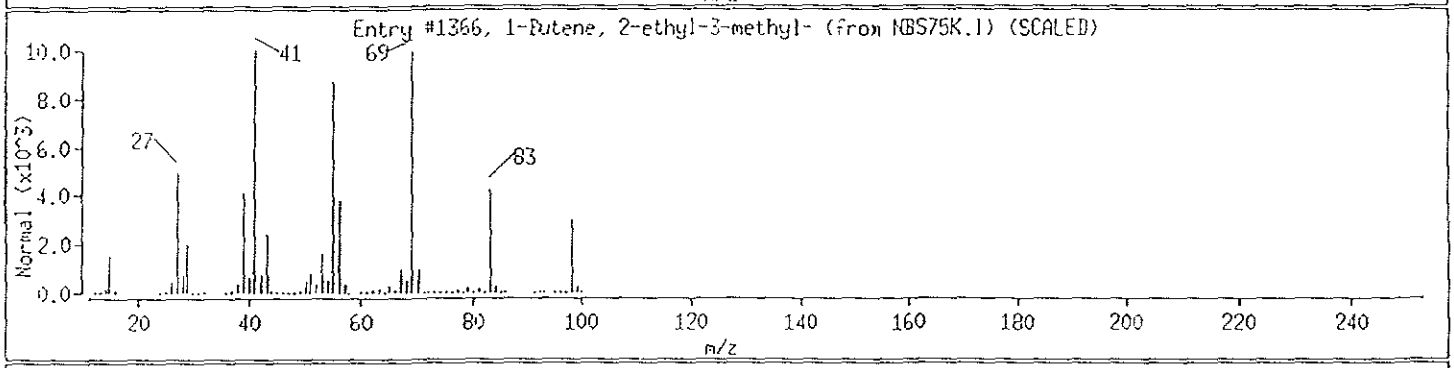
Column phase: J&W DB_624

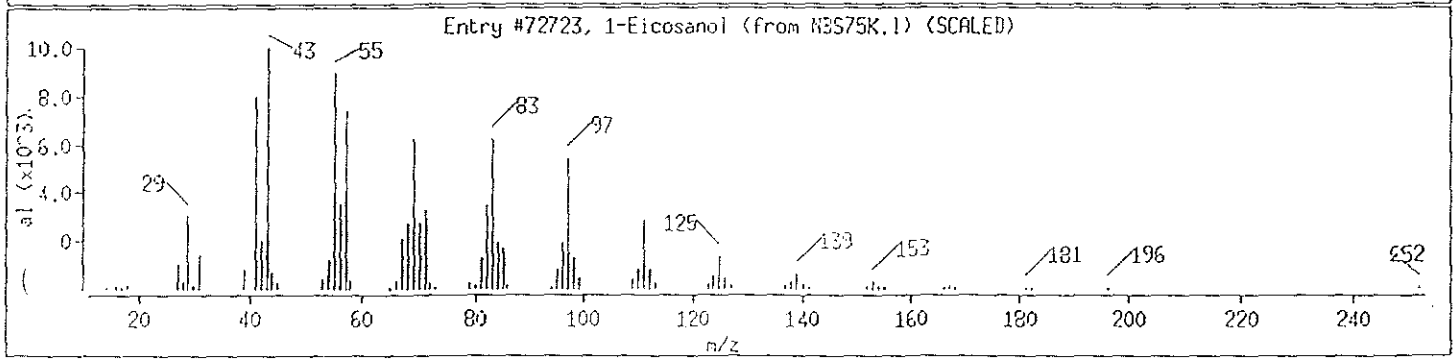
Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cycloheptane	291-64-5	NBS75K.1	63232	49	C7H14	98
1-Butene, 2-ethyl-3-methyl-	7357-93-9	NBS75K.1	1366	46	C7H14	98
1-Eicosanol	629-96-9	NBS75K.1	72723	43	C20H42O	298









Data File: /chem/msc.i/c012296.b/c7982.d

Date : 22-JAN-96 05:39

Client ID: 17418n clj78cs005

Instrument: msc.i

Sample Info: 17418n clj78cs005

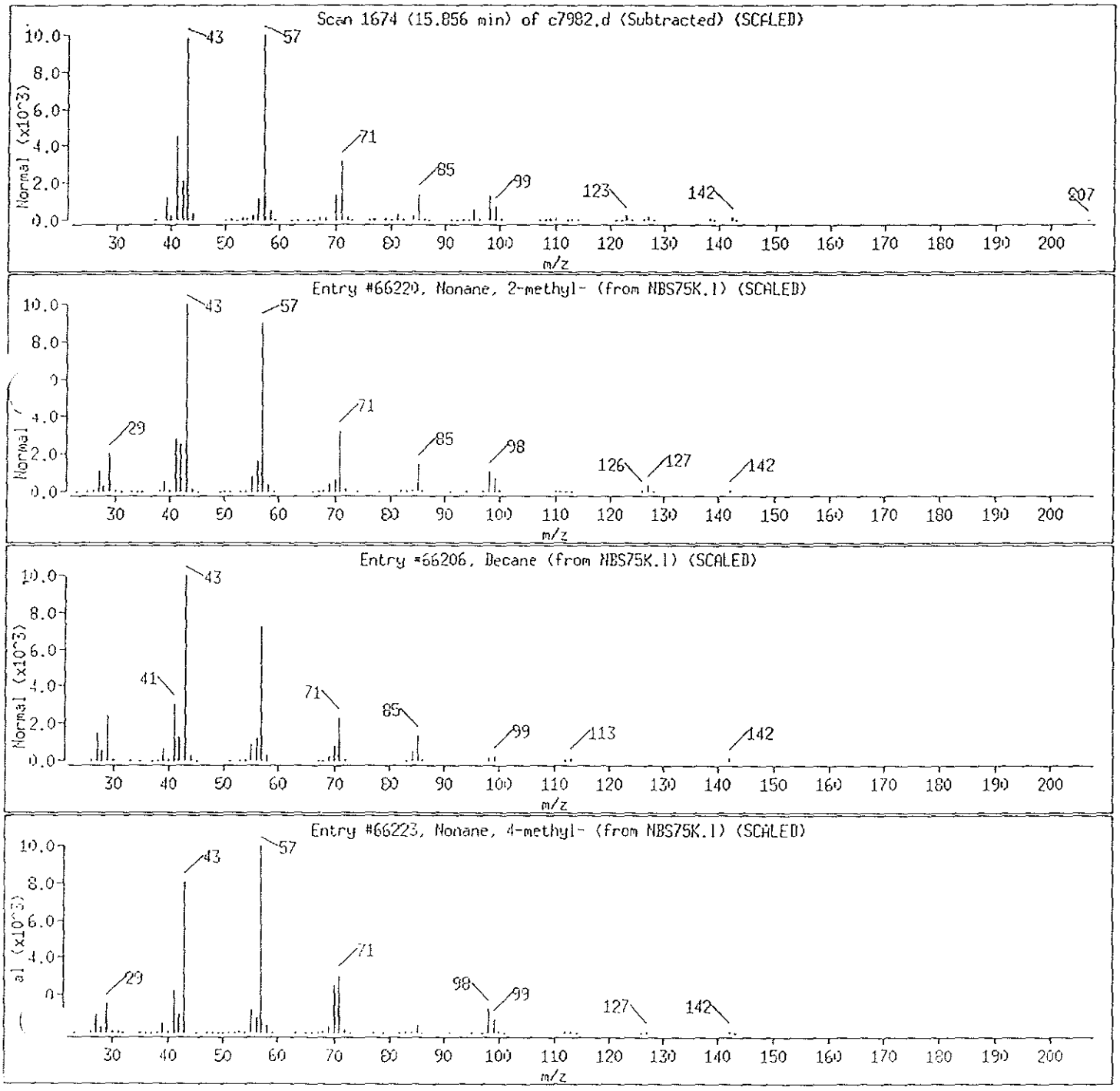
Purge Volume: 1.0

Operator: jk

Column phase: J&W DB_624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonane, 2-methyl-	871-83-0	NBS75K.1	66220	72	C10H22	142
Decane	124-18-5	NBS75K.1	66206	64	C10H22	142
Nonane, 4-methyl-	17301-94-9	NBS75K.1	66223	64	C10H22	142



Data File: /chem/msc.i/c012296.b/c7982.d

Date : 22-JAN-96 05:39

Client ID: 17418n clj78cs005

Instrument: msc.i

Sample Info: 17418n clj78cs005

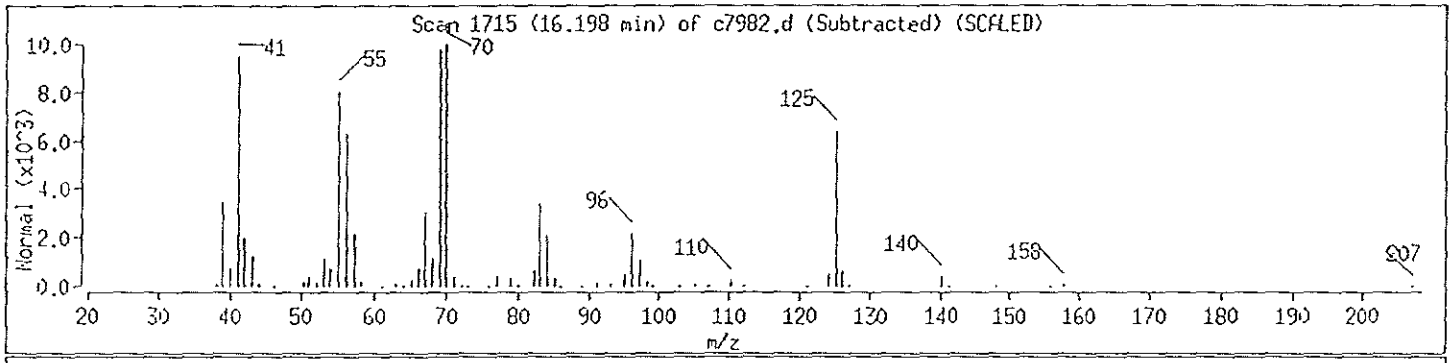
Purge Volume: 1.0

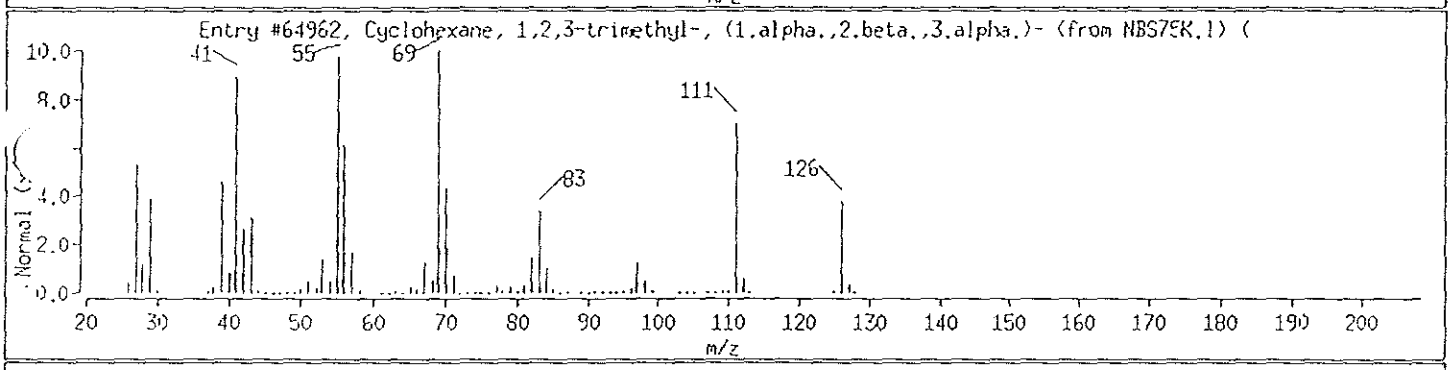
Operator: jk

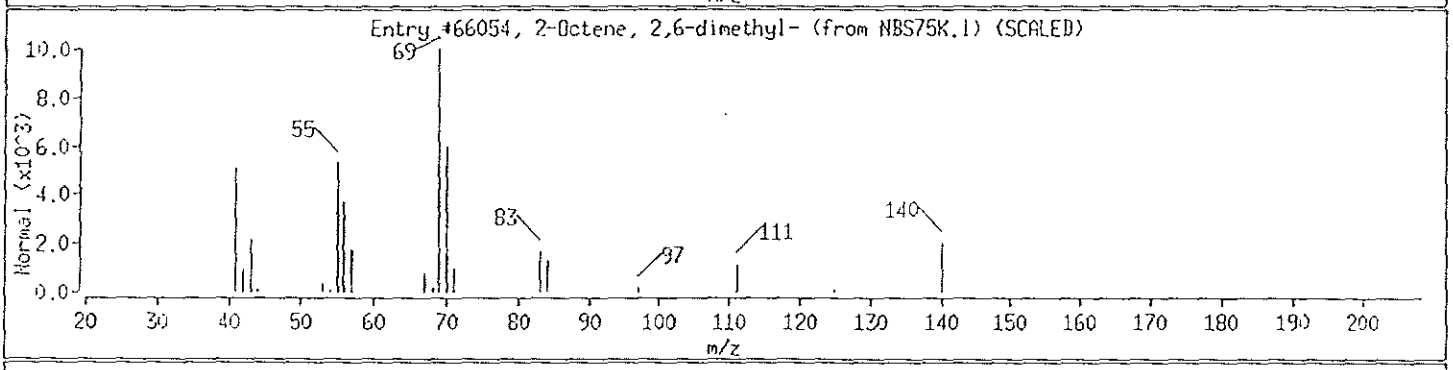
Column phase: J&W DB_624

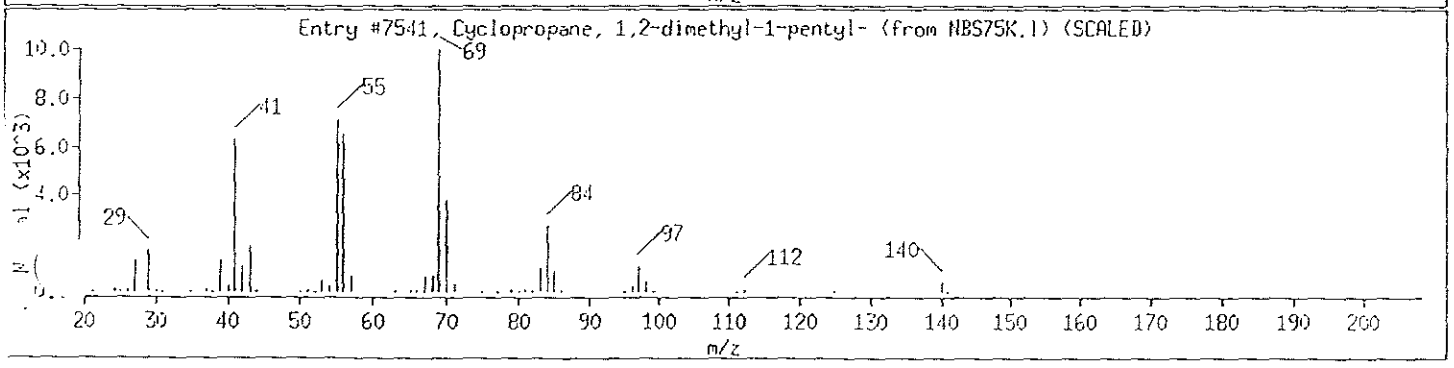
Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexane, 1,2,3-trimethyl-, (1.alpha.	1678-81-5	NBS75K.l	64962	47	C9H18	126
2-Octene, 2,6-dimethyl-	4057-42-5	NBS75K.l	66054	47	C10H20	140
Cyclopropane, 1,2-dimethyl-1-pentyl-	62238-04-4	NBS75K.l	7541	46	C10H20	140









Data File: /chem/msc.i/c012296.b/c7982.d

Date : 22-JAN-96 05:39

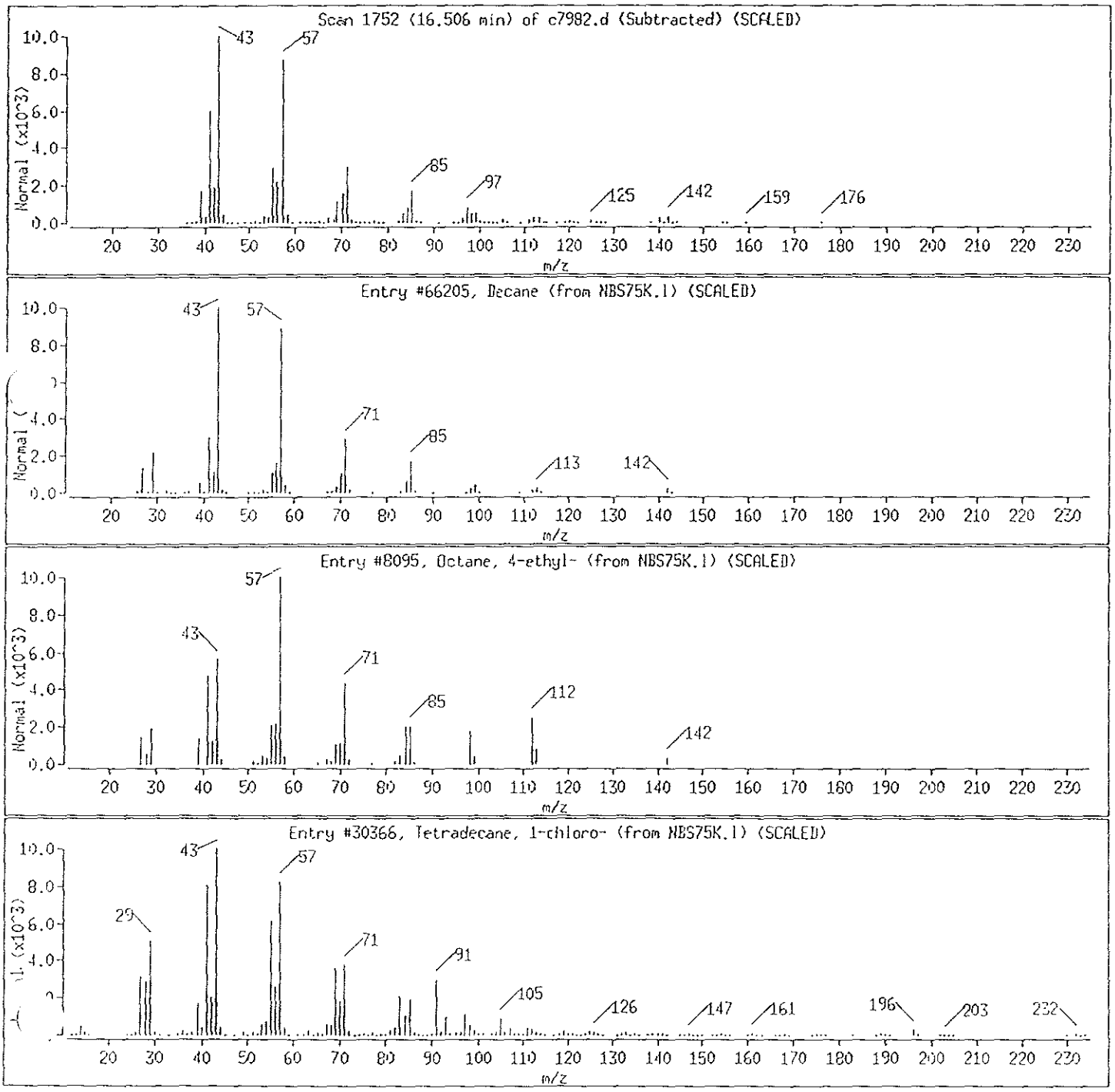
Client ID: 17418n clj78cs005 Instrument: msc.i

Sample Info: 17418n clj78cs005

Purge Volume: 1.0 Operator: jk

Column phase: J&W DB_624 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decane	124-18-5	NBS75K.l	66205	87	C10H22	142
Octane, 4-ethyl-	15869-86-0	NBS75K.l	8095	72	C10H22	142
Tetradecane, 1-chloro-	2425-54-9	NBS75K.l	30366	72	C14H29Cl	232



Data File: /chem/msc.i/c012296.b/c7982.d

Date : 22-JAN-96 05:39

Client ID: 17418n clj78cs005

Instrument: msc.i

Sample Info: 17418n clj78cs005

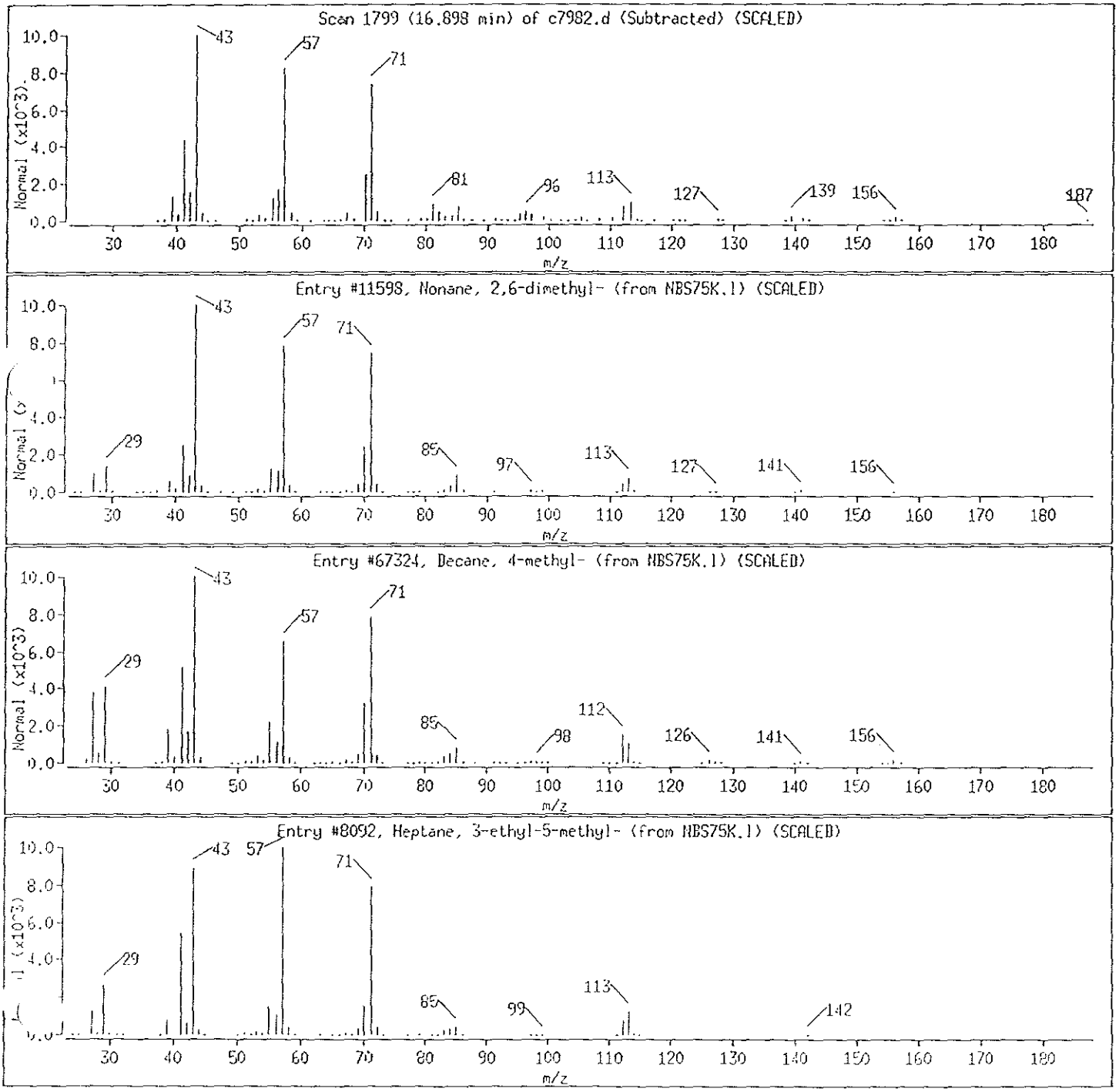
Purge Volume: 1.0

Operator: jk

Column phase: J&W DB_624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonane, 2,6-dimethyl-	17302-28-2	NBS75K.1	11598	86	C11H24	156
Decane, 4-methyl-	2847-72-5	NBS75K.1	67324	80	C11H24	156
Heptane, 3-ethyl-5-methyl-	52896-90-9	NBS75K.1	8092	72	C10H22	142



Data File: /chem/msc.i/c012296.b/c7982.d

Date : 22-JAN-96 05:39

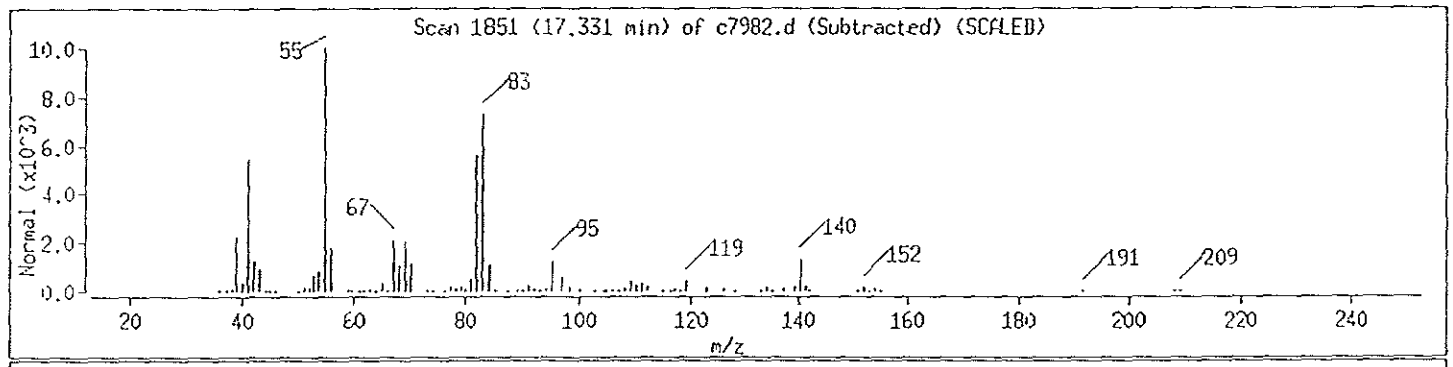
Client ID: 17418n clj78cs005 Instrument: msc.i

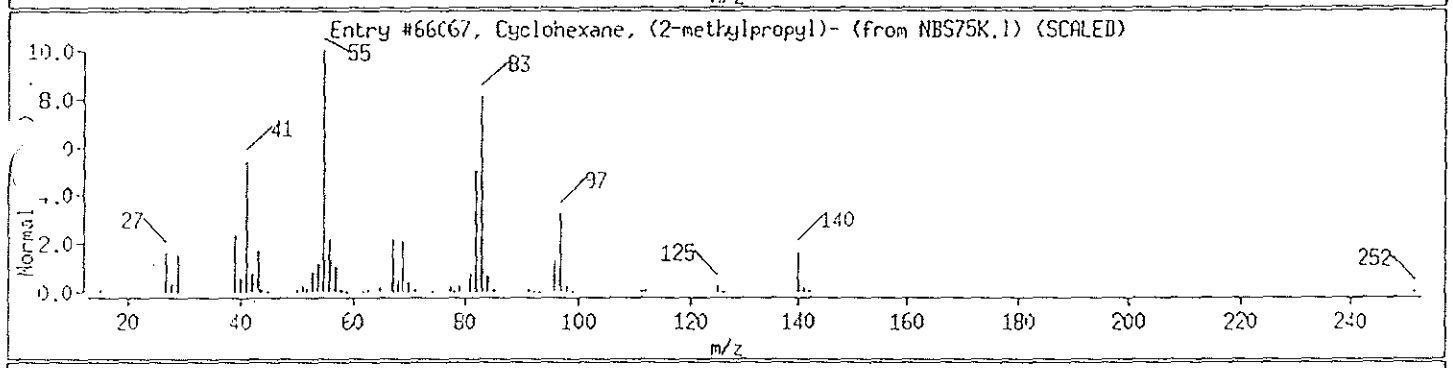
Sample Info: 17418n clj78cs005

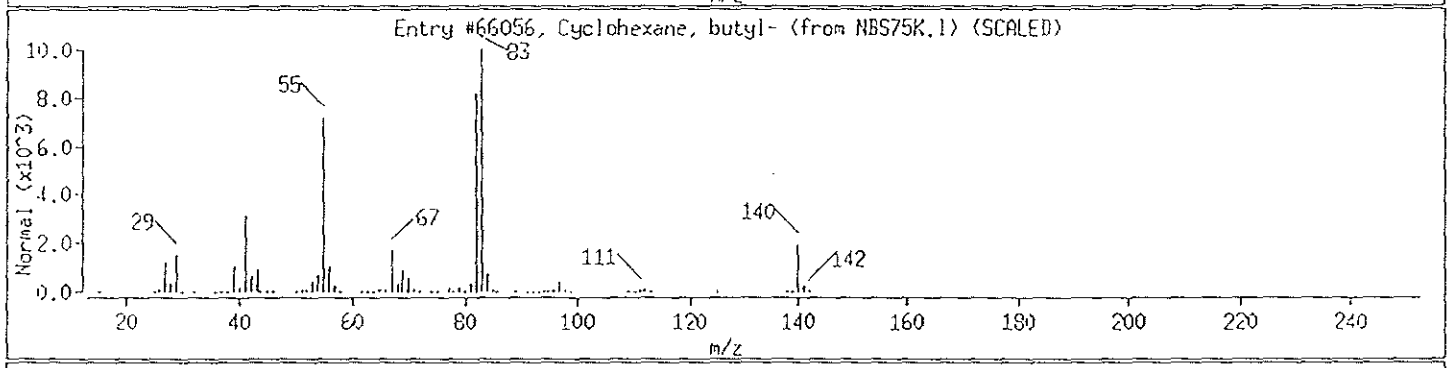
Purge Volume: 1.0 Operator: jk

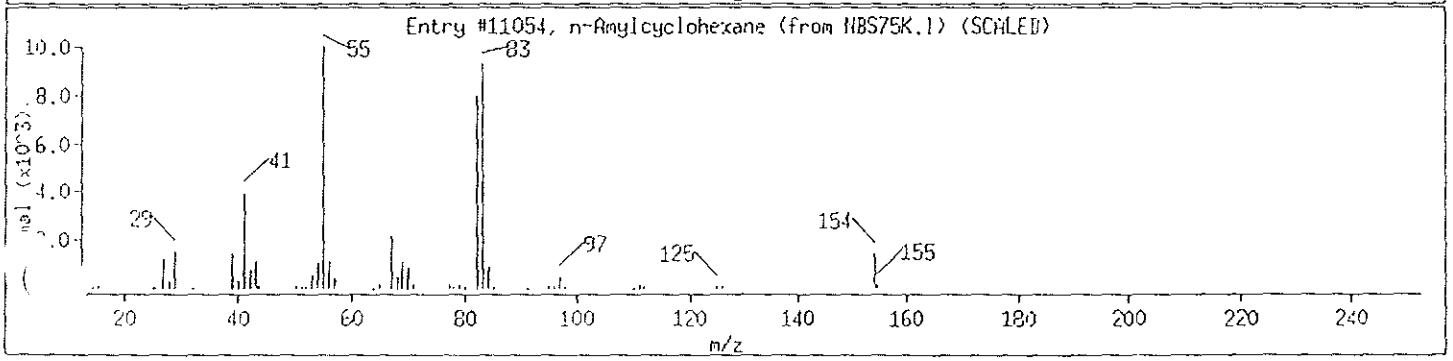
Column phase: J&W DB_624 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexane, (2-methylpropyl)-	1678-98-4	NBS75K.l	66067	83	C10H20	140
Cyclohexane, butyl-	1678-93-9	NBS75K.l	66056	80	C10H20	140
n-Amylcyclohexane	29949-27-7	NBS75K.l	11054	64	C11H22	154









Data File: /chem/msc.i/c012296.b/c7982.d

Date : 22-JAN-96 05:39

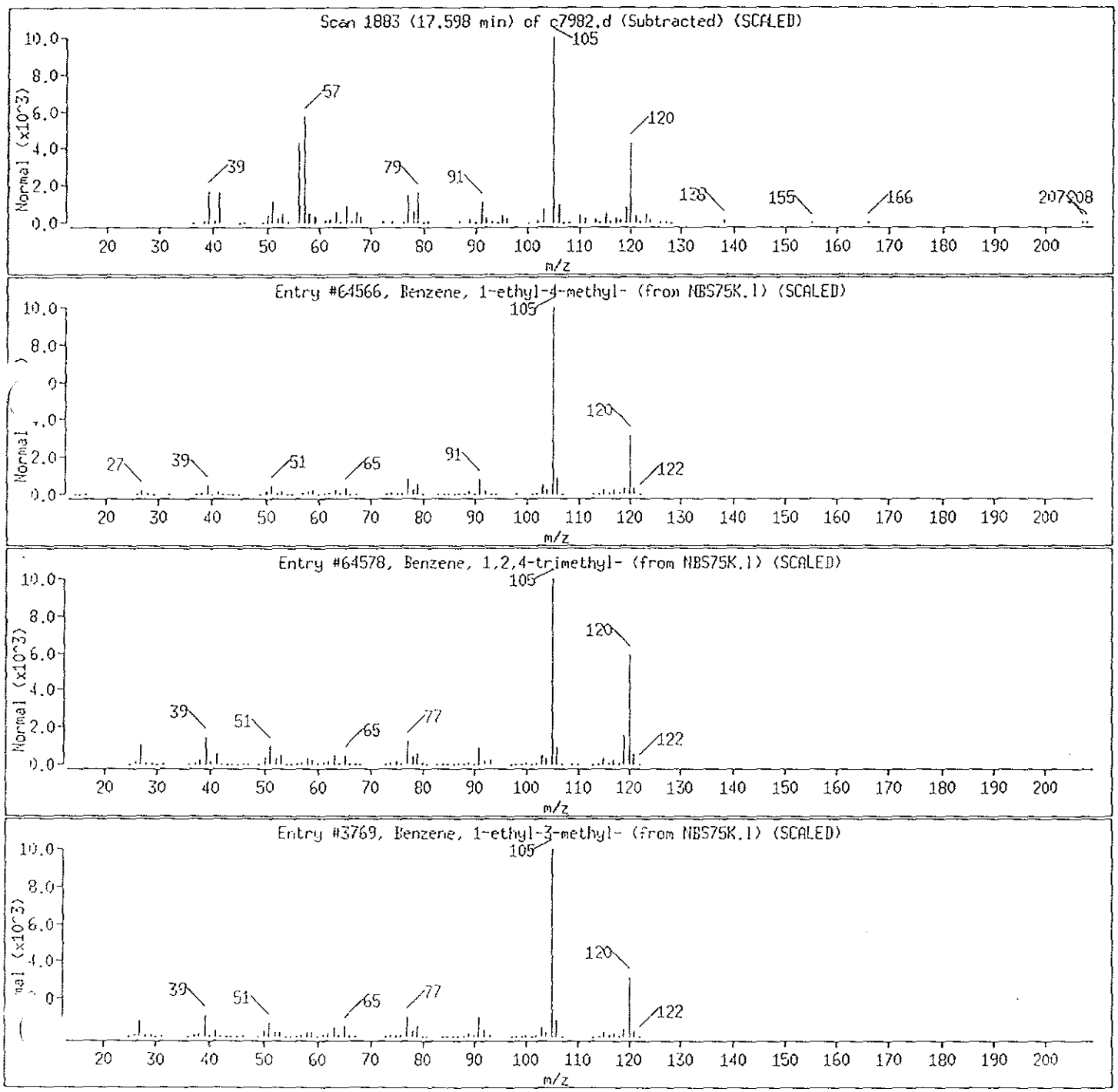
Client ID: 17418n clj78cs005 Instrument: msc.i

Sample Info: 17418n clj78cs005

Purge Volume: 1.0 Operator: jk

Column phase: J&W DB_624 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-ethyl-4-methyl-	622-96-8	NBS75K.l	64566	60	C9H12	120
Benzene, 1,2,4-trimethyl-	95-63-6	NBS75K.l	64578	60	C9H12	120
Benzene, 1-ethyl-3-methyl-	620-14-4	NBS75K.l	3769	60	C9H12	120



Data File: /chem/msc.i/c012296.b/c7982.d

Date : 22-JAN-96 05:39

Client ID: 17418n clj78cs005

Instrument: msc.i

Sample Info: 17418n clj78cs005

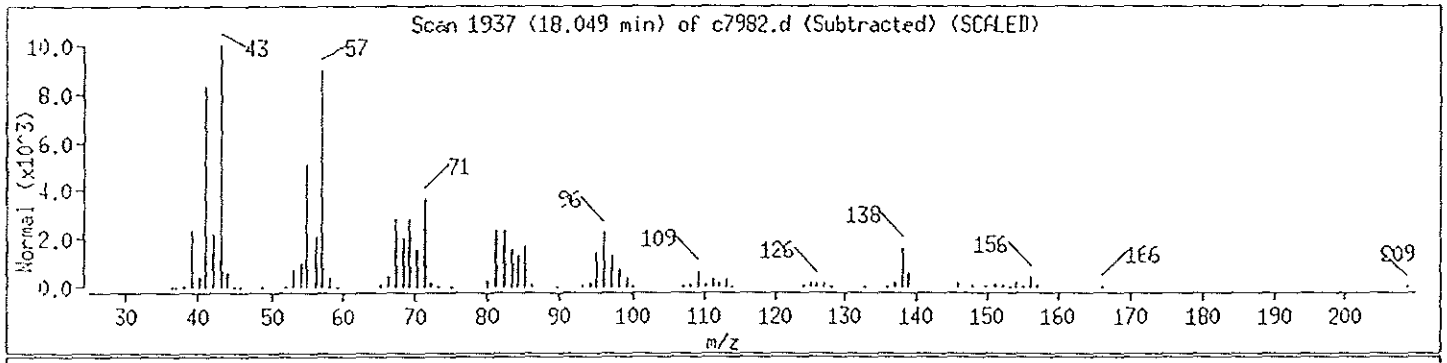
Purge Volume: 1.0

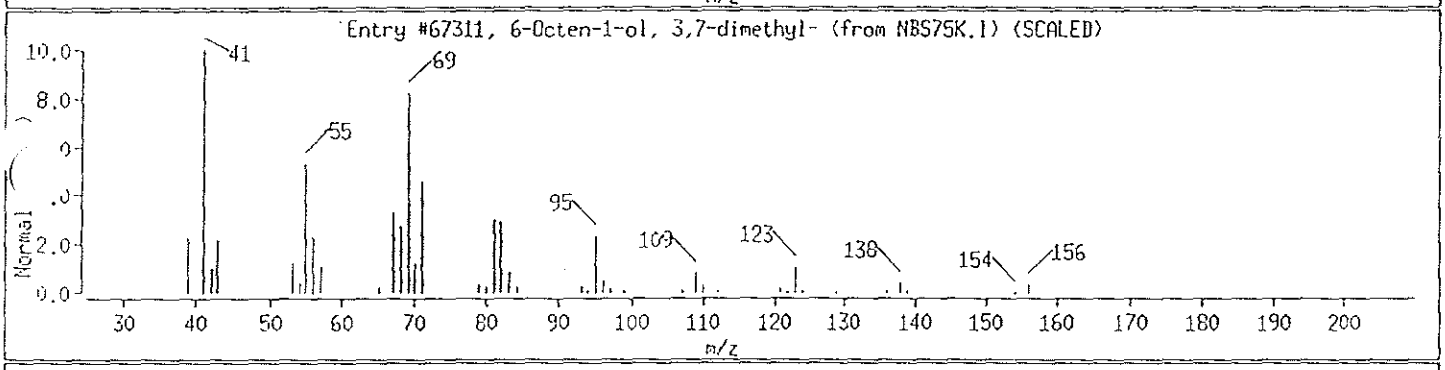
Operator: jk

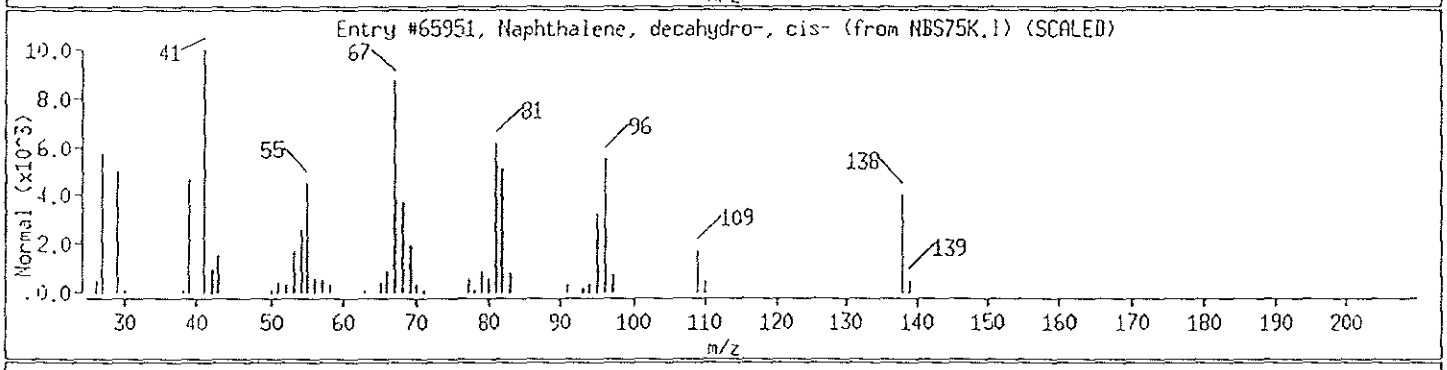
Column phase: J&W DB_624

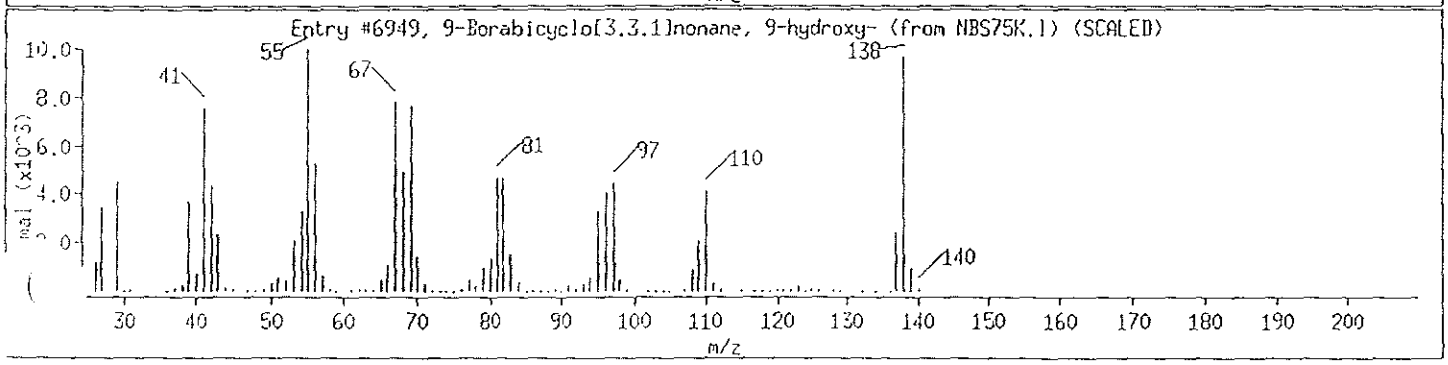
Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
6-Octen-1-ol, 3,7-dimethyl-	106-22-9	NBS75K.l	67311	53	C10H20O	156
Naphthalene, decahydro-, cis-	493-01-6	NBS75K.l	65951	45	C10H18	138
9-Borabicyclo[3.3.1]nonane, 9-hydroxy-	63366-65-4	NBS75K.l	6949	45	C8H15BO	138









1A
VOLATILE ORGANICS ANALYSIS DATA SHEET 0093

EPA SAMPLE NO.

CLJ78DS005

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2496V

Sample wt/vol: ~~2.15~~ 4.30 AB (g/mL) G Lab File ID: C7983

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: not dec. 16 Date Analyzed: 01/22/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 50.0

Soil Extract Volume: ~~5000~~ 10000 AB (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	690	U
74-83-9	Bromomethane	690	U
75-01-4	Vinyl Chloride	690	U
75-00-3	Chloroethane	690	U
75-09-2	Methylene Chloride	690	U
67-64-1	Acetone	1400	U
75-15-0	Carbon Disulfide	690	U
75-35-4	1,1-Dichloroethene	690	U
75-34-3	1,1-Dichloroethane	690	U
540-59-0	1,2-Dichloroethene (total)	1900	
67-66-3	Chloroform	690	U
107-06-2	1,2-Dichloroethane	690	U
78-93-3	2-Butanone	690	U
71-55-6	1,1,1-Trichloroethane	690	U
56-23-5	Carbon Tetrachloride	690	U
75-27-4	Bromodichloromethane	690	U
78-87-5	1,2-Dichloropropane	690	U
10061-01-5	cis-1,3-Dichloropropene	690	U
79-01-6	Trichloroethene	690	U
124-48-1	Dibromochloromethane	690	U
79-00-5	1,1,2-Trichloroethane	690	U
71-43-2	Benzene	690	U
10061-02-6	trans-1,3-Dichloropropene	690	U
75-25-2	Bromoform	690	U
108-10-1	Methyl-iso-butyl ketone	1400	U
591-78-6	2-Hexanone	690	U
127-18-4	Tetrachloroethylene	6600	
79-34-5	1,1,2,2-Tetrachloroethane	690	U
108-88-3	Toluene	690	U
108-90-7	Chlorobenzene	690	U
100-41-4	Ethylbenzene	690	U
100-42-5	Styrene	690	U
1330-20-7	Xylene (total)	690	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0094 EPA SAMPLE NO.

CLJ78DS005

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

b Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2496V

Sample wt/vol: ~~2.15~~ 4.30 AS (g/mL) G Lab File ID: C7983

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: not dec. 16 Date Analyzed: 01/22/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 50.0

Soil Extract Volume: ~~5000~~ 10000 AS (uL) Soil Aliquot Volume: 100 (uL)

Number TICs found: 10

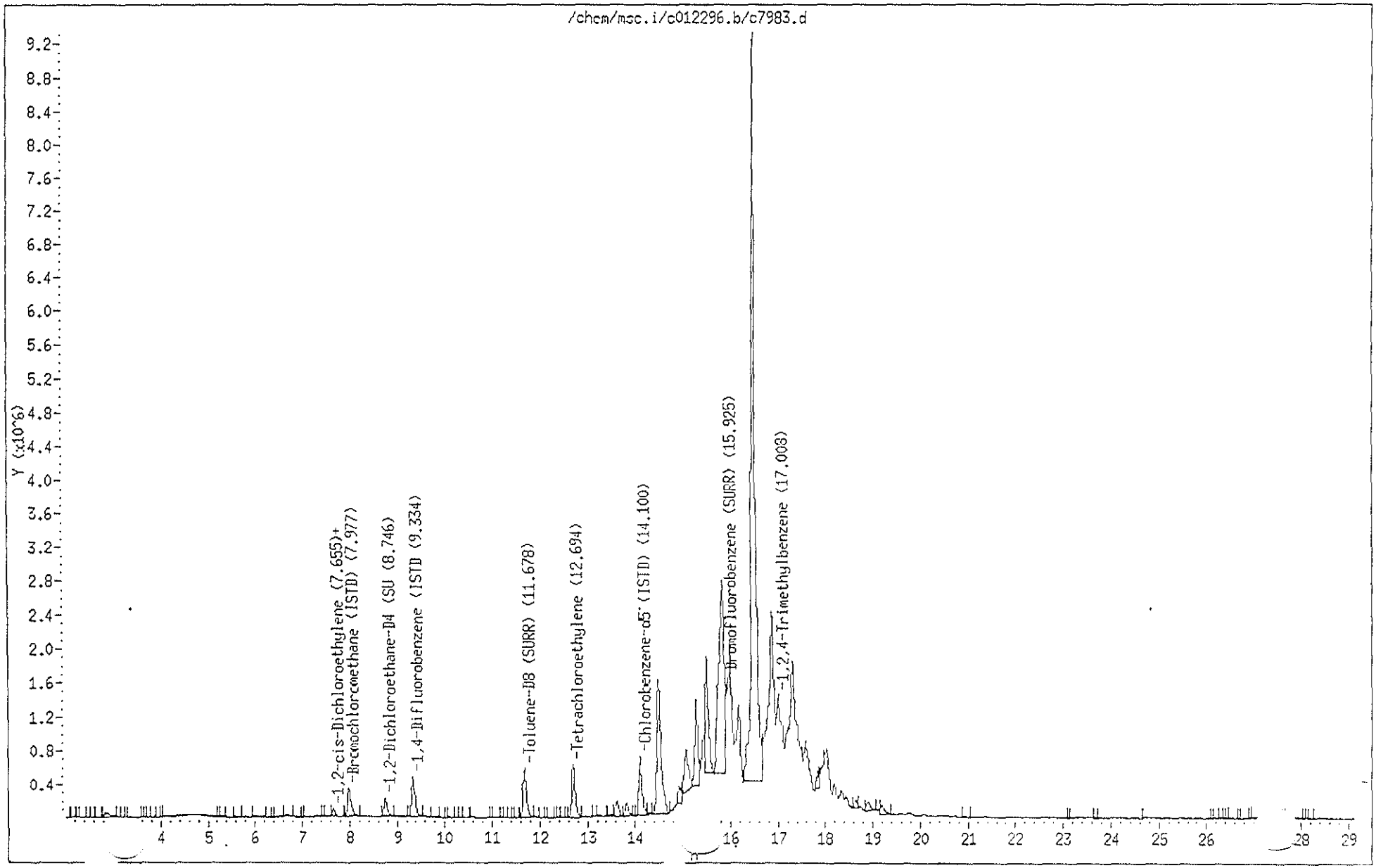
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unk hydrocarbon	13.61	2300	J
2.	Unk hydrocarbon	13.82	1600	J
3. 111-84-2	Nonane	14.48	21000	JN
4. 589-43-5	Hexane, 2,4-dimethyl-	14.92	1800	JN
5.	Unk hydrocarbon	15.06	6800	J
6. 5911-04-6	Nonane, 3-methyl-	15.27	9800	JN
7.	Unk hydrocarbon	15.49	15000	J
8. 871-83-0	Nonane, 2-methyl-	15.83	38000	JN
9. 124-18-5	Decane	16.48	110000	JN
10.	unknown	19.18	1600	J

Data File: /chem/msc.i/c012296.b/c7983.d
Date : 22-JAN-1996 06:11
Client ID: 17418n clj78ds005
Sample Info: 17418n clj78ds005
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i

Operator: jk
Column diameter: 0.53



OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240 25 ccch

Data file : /chem/msc.i/c012296.b/c7983.d
Lab Smp Id: Client Smp ID: 17418n clj78ds005
Inj Date : 22-JAN-1996 06:11
Operator : jk Inst ID: msc.i
Smp Info : 17418n clj78ds005
Misc Info : jp2496v,n2v4914,m2,100,50,2.15,5.00,960121
Comment :
Method : /chem/msc.i/c012296.b/012196_ambic.m
Meth Date : 22-Jan-1996 08:31 glenn Quant Type: ISTD
Cal Date : 22-JAN-96 00:26 Cal File: c7973.d
Als bottle: 14
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub #590
Target Version: 3.10

MK 1/22/96

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
3 1,2-cis-Dichloroethylene	96.00	7.655	7.581	(0.960)	80759	13.4	13.4 (QM)
Bromochloromethane (ISTD)	128.00	7.977	7.904	(1.000)	203592	50.0	
$ 1,2-Dichloroethane-D4 (SURR)	65.00	8.746	8.659	(1.096)	377277	46.6	46.6
• 30 1,4-Difluorobenzene (ISTD)	114.00	9.334	9.239	(1.000)	813936	50.0	
$ 38 Toluene-D8 (SURR)	93.00	11.678	11.573	(0.828)	867001	46.3	46.3
42 Tetrachloroethylene	164.00	12.694	12.592	(0.900)	389807	47.8	47.8
• 47 Chlorobenzene-d5 (ISTD)	117.00	14.100	13.991	(1.000)	795939	50.0	
$ 55 Bromofluorobenzene (SURR)	95.00	15.925	15.840	(1.129)	884993	52.4	52.4 (M)
55 1,2,4-Trimethylbenzene	105.00	17.008	16.937	(1.206)	457729	19.8	19.8

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: /chem/msc.i/c012296.b/c7983.d

Date : 22-JAN-1996 06:11

Client ID: 17418n clj78ds005

Instrument: msc.i

Sample Info: 17418n clj78ds005

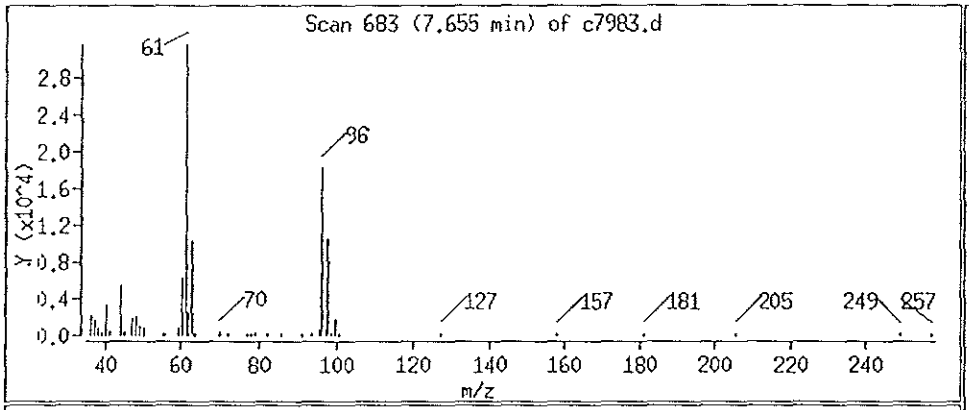
Purge Volume: 1.0

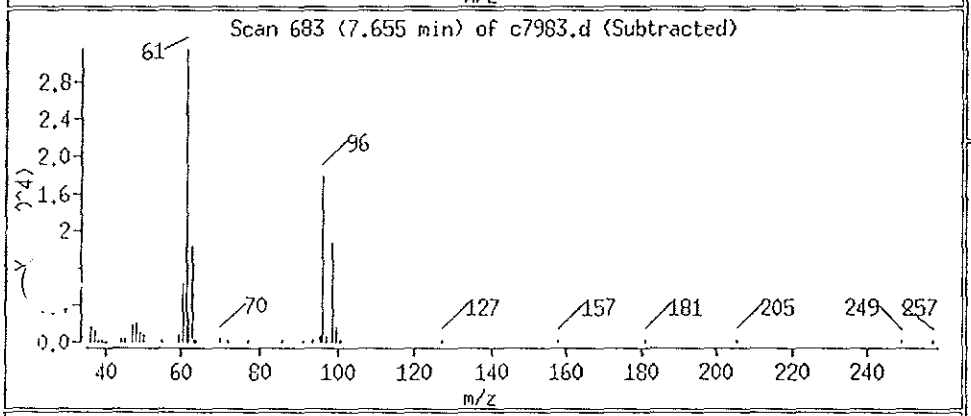
Operator: jk

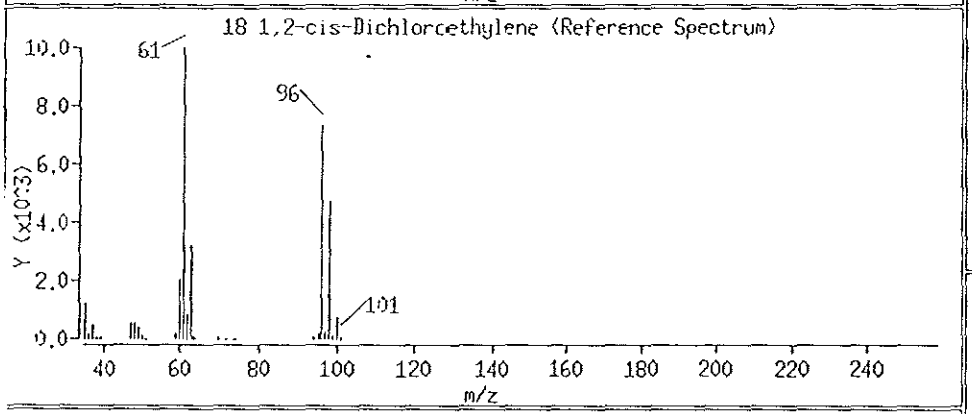
Column phase: J&W DB_624

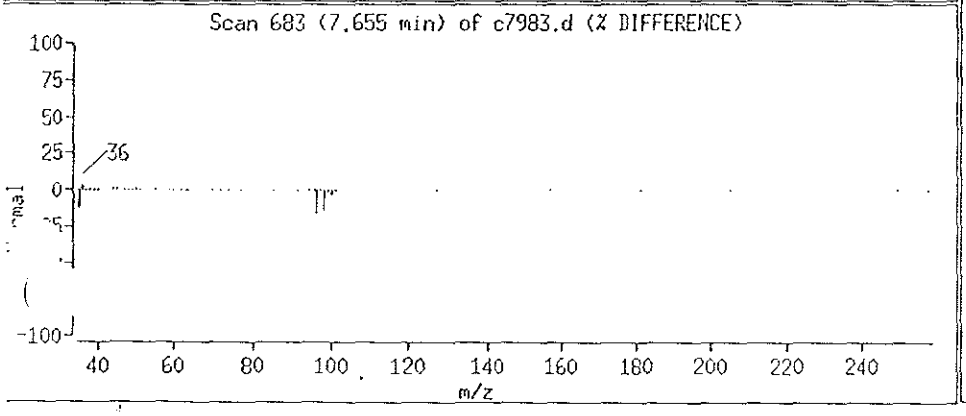
Column diameter: 0.53

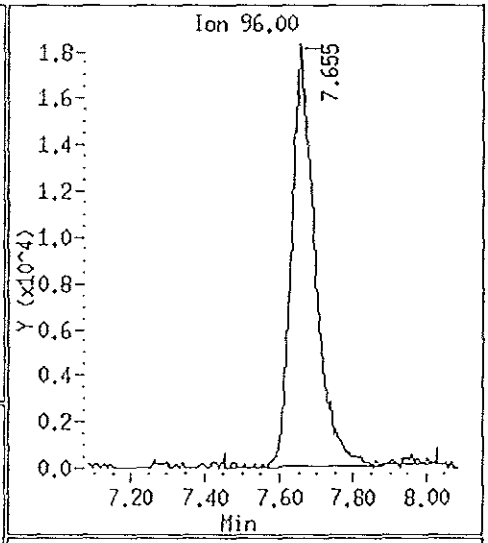
18 1,2-cis-Dichlorcethylene

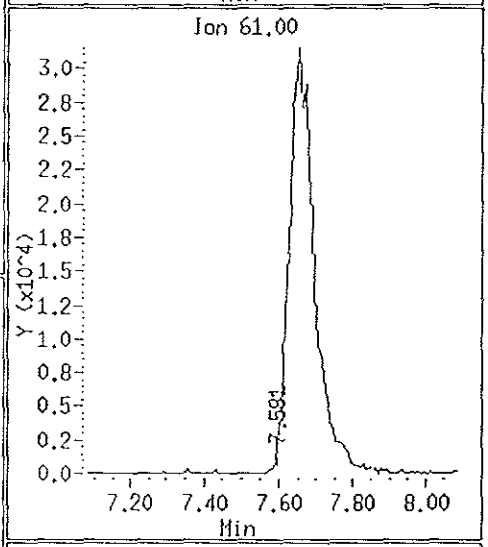


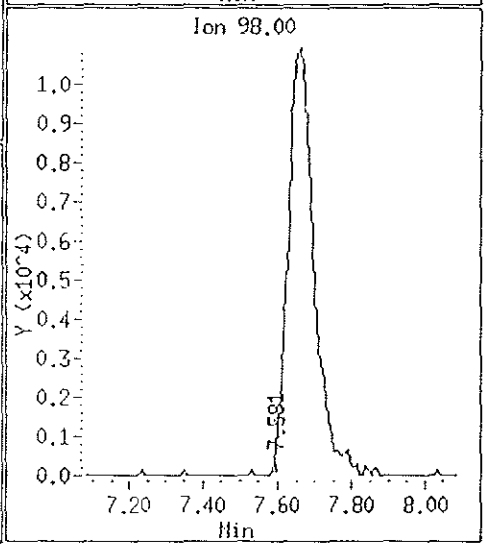












Data File: /chem/msc.i/c012296.b/c7983.d

Date : 22-JAN-1996 06:11

Client ID: 17418n clj78ds005

Instrument: msc.i

Sample Info: 17418n clj78ds005

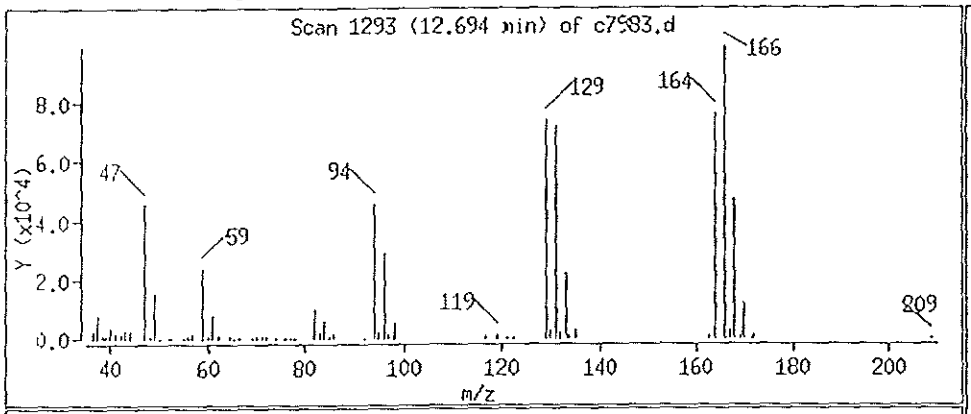
Purge Volume: 1.0

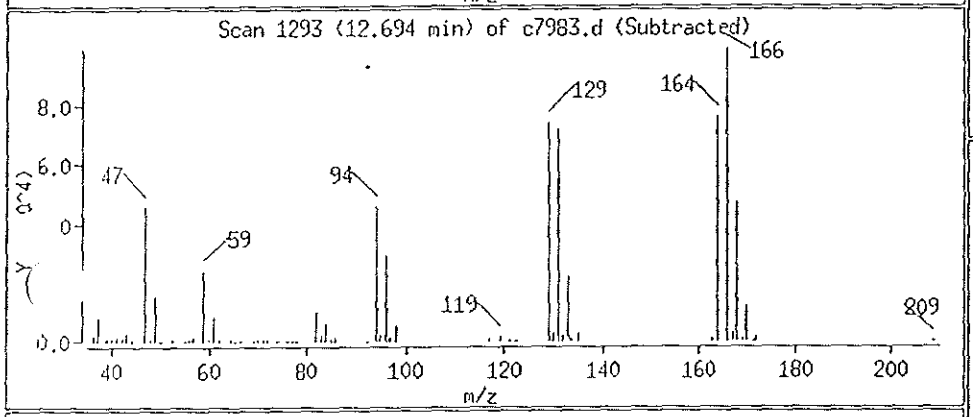
Operator: jk

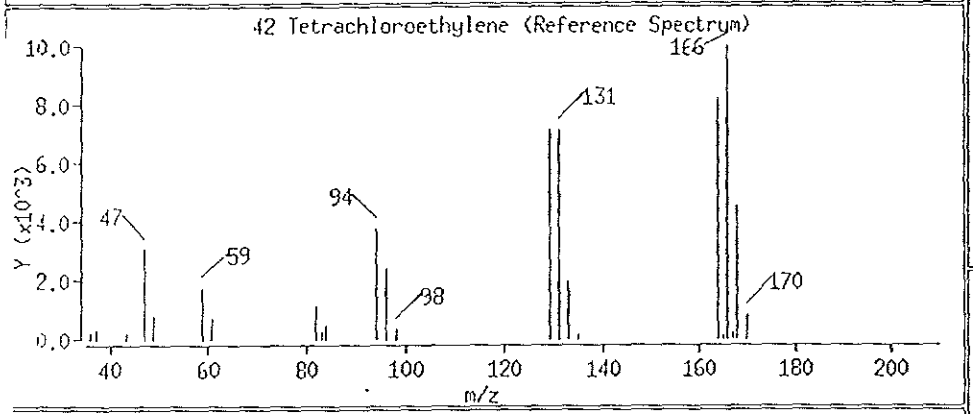
Column phase: J&W DB_624

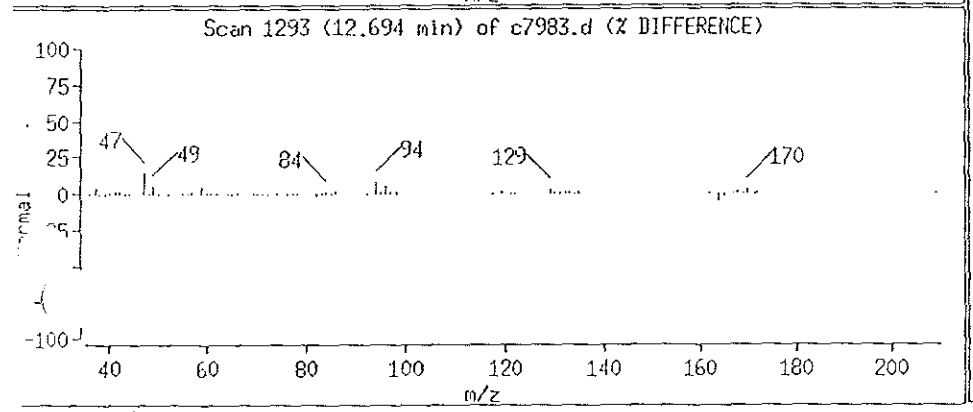
Column diameter: 0.53

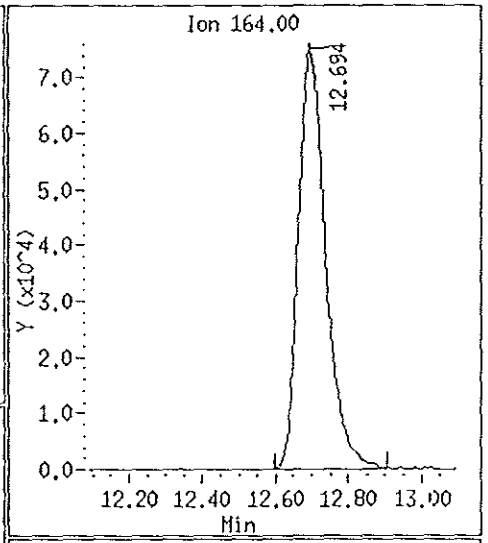
42 Tetrachloroethylene

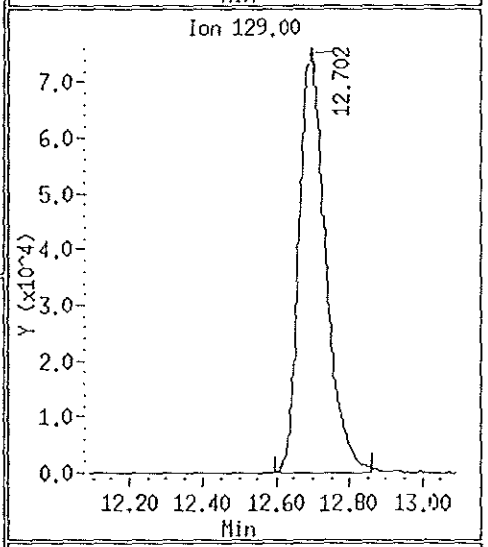


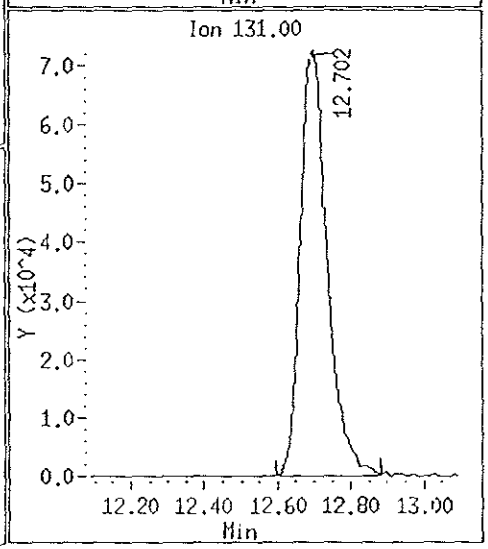












Data File: /chem/msc.i/c012296.b/c7983.d

Date : 22-JAN-96 06:11

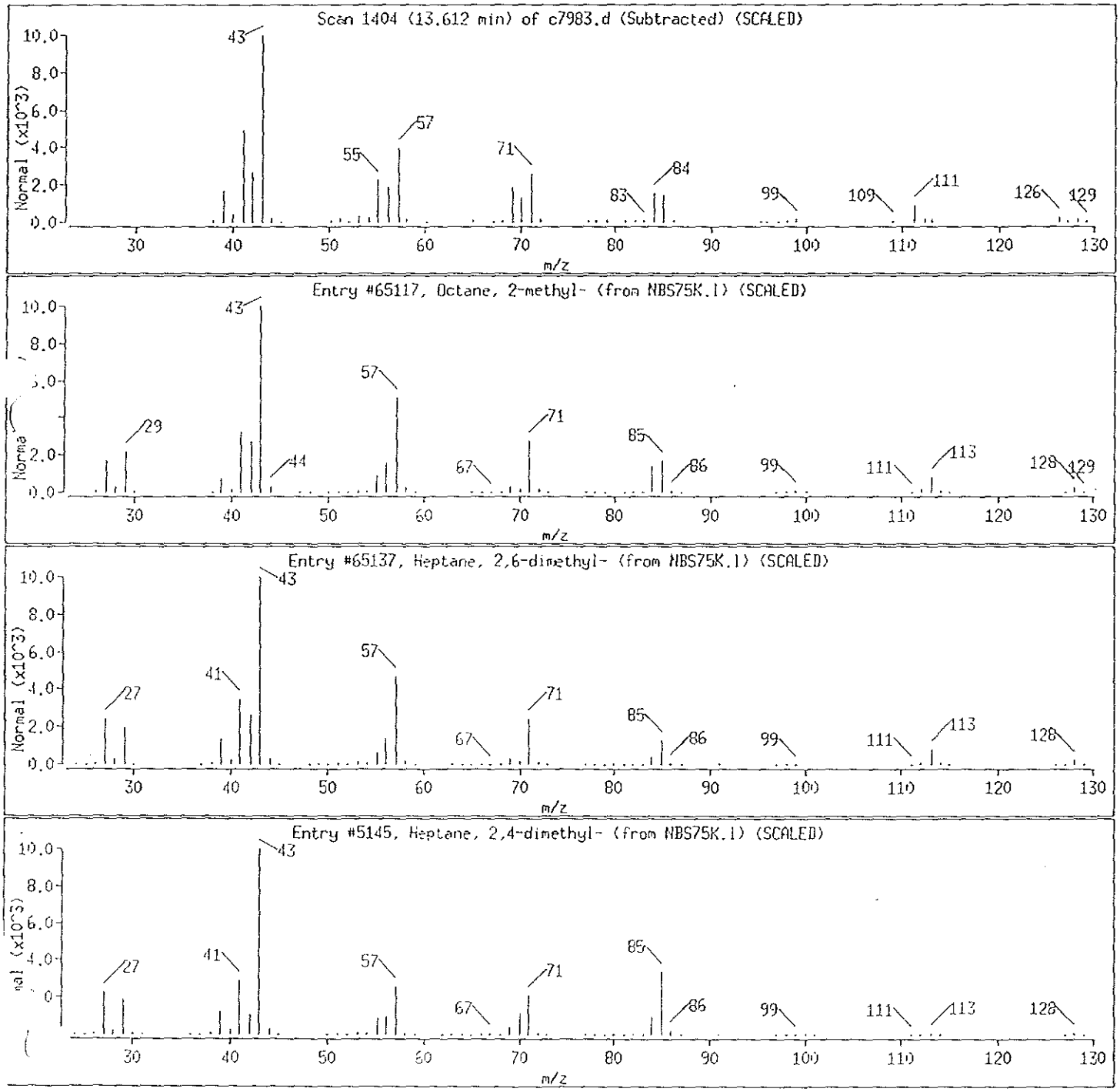
Client ID: 17418n clj78ds005 Instrument: msc.i

Sample Info: 17418n clj78ds005

Purge Volume: 1.0 Operator: jk

Column phase: J&W DB_624 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Octane, 2-methyl-	3221-61-2	NBS75K.1	65117	81	C9H20	128
Heptane, 2,6-dimethyl-	1072-05-5	NBS75K.1	65137	59	C9H20	128
Heptane, 2,4-dimethyl-	2213-23-2	NBS75K.1	5145	53	C9H20	128



Data File: /chem/msc.i/c012296.b/c7983.d

Date : 22-JAN-96 06:11

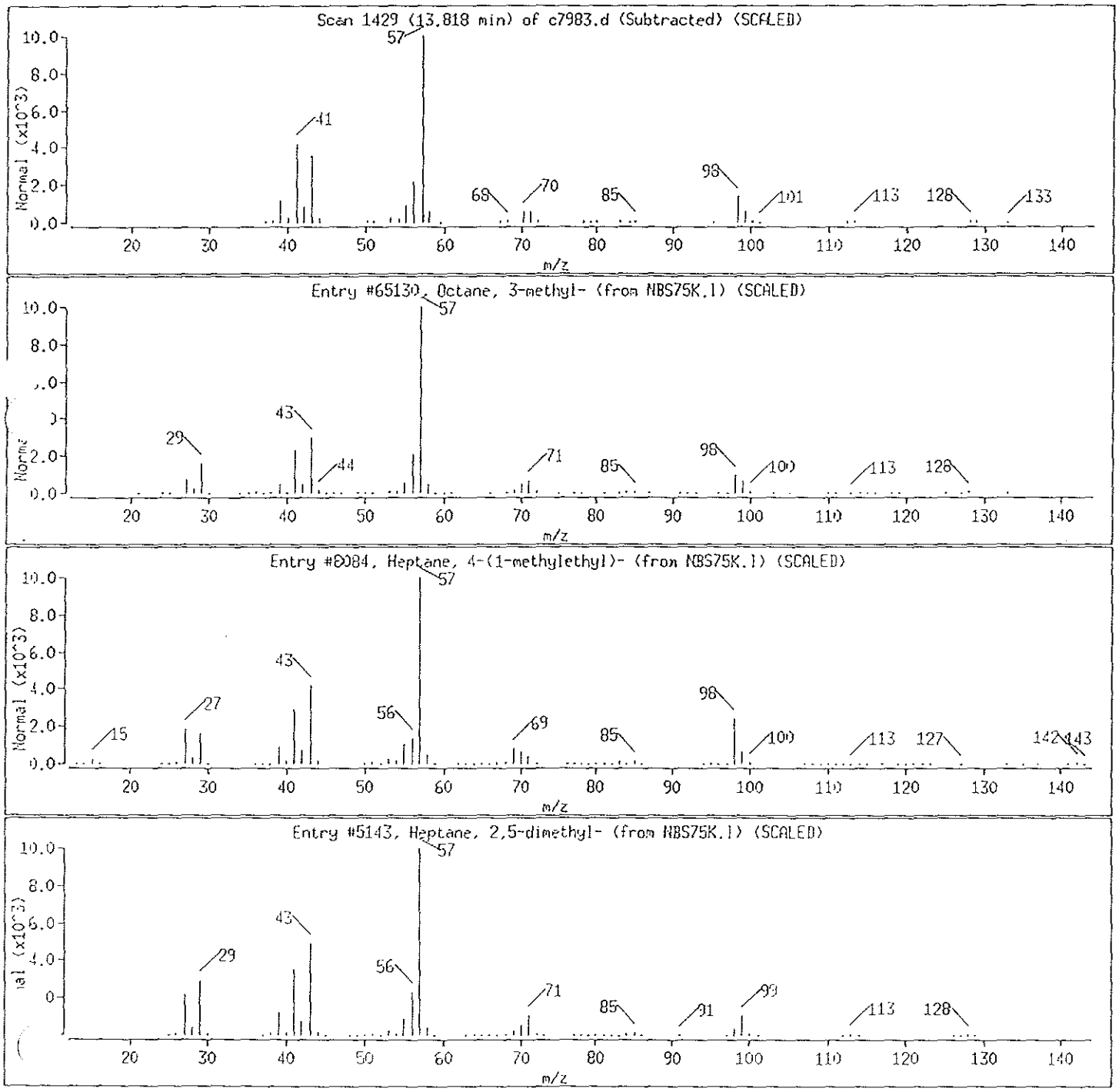
Client ID: 17418n clj78ds005 Instrument: msc.i

Sample Info: 17418n clj78ds005

Purge Volume: 1.0 Operator: jk

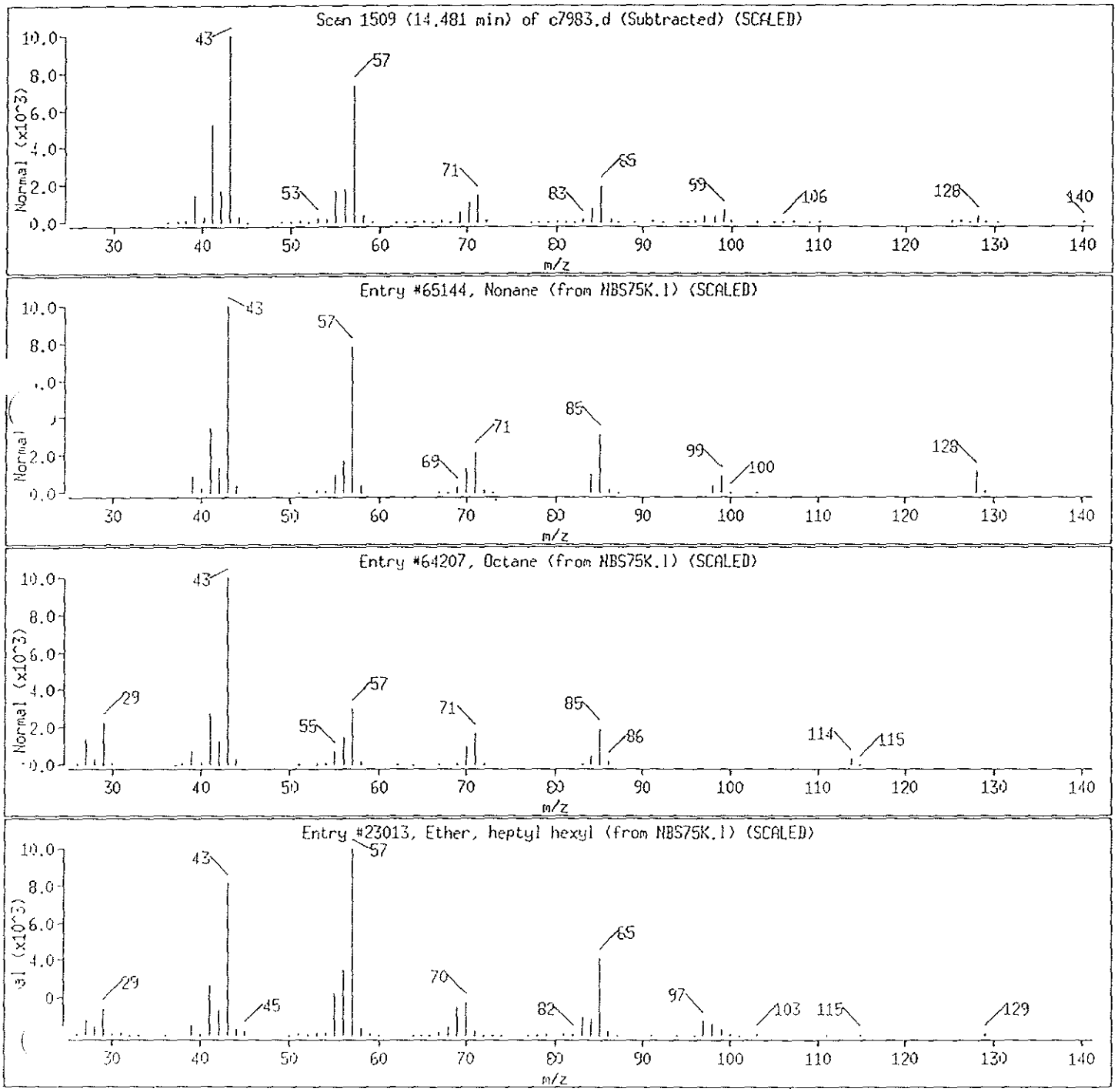
Column phase: J&W DB_624 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Octane, 3-methyl-	2216-33-3	NBS75K.l	65130	74	C9H20	128
Heptane, 4-(1-methylethyl)-	52896-87-4	NBS75K.l	8084	59	C10H22	142
Heptane, 2,5-dimethyl-	2216-30-0	NBS75K.l	5143	58	C9H20	128



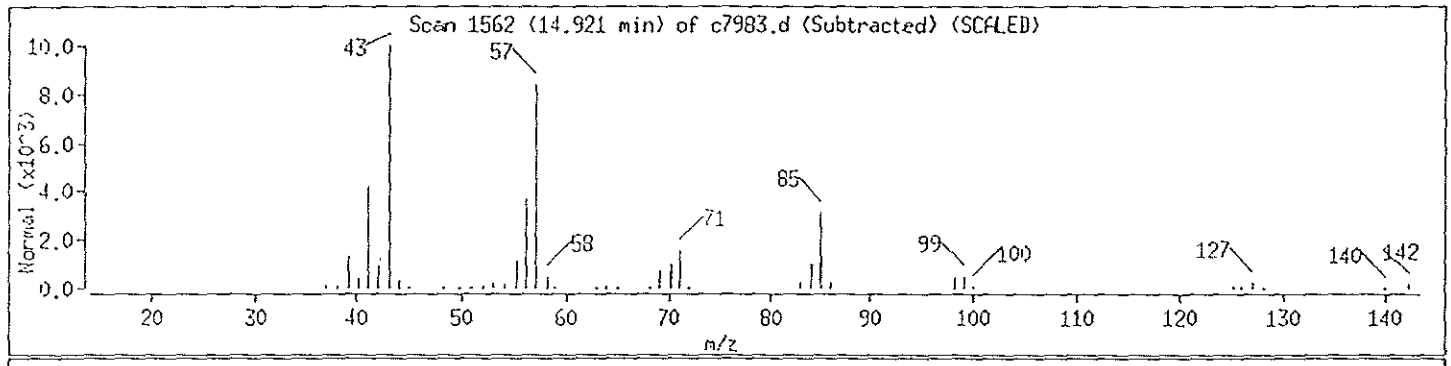
Data File: /chem/msc.i/c012296.b/c7983.d
Date : 22-JAN-96 06:11
Client ID: 17418n clj78ds005 Instrument: msc.i
Sample Info: 17418n clj78ds005
Purge Volume: 1.0 Operator: jk
Column phase: J&W DB_624 Column diameter: 0.53

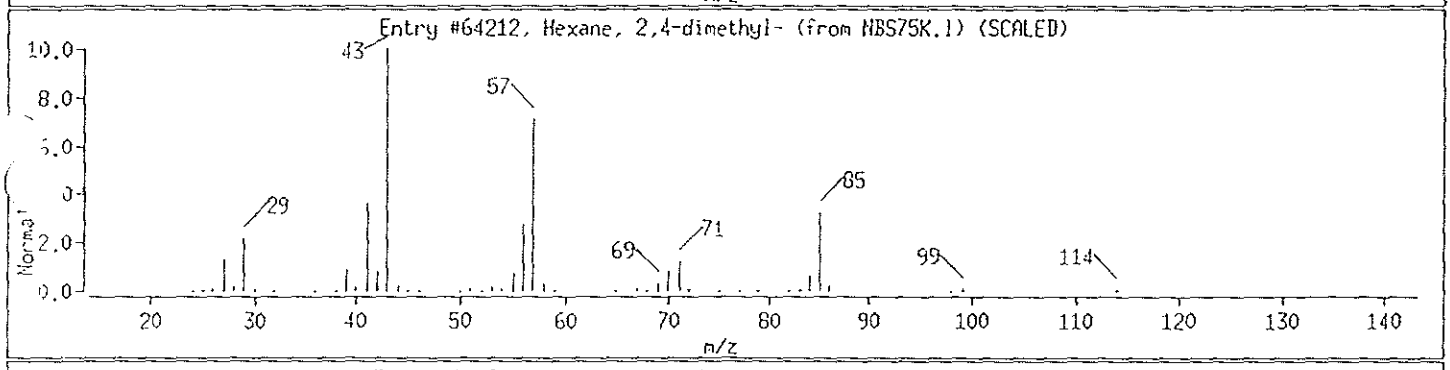
Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonane	111-84-2	NBS75K.l	65144	95	C9H20	128
Octane	111-65-9	NBS75K.l	64207	53	C8H18	114
Ether, heptyl hexyl	7289-40-9	NBS75K.l	23013	53	C13H28O	200

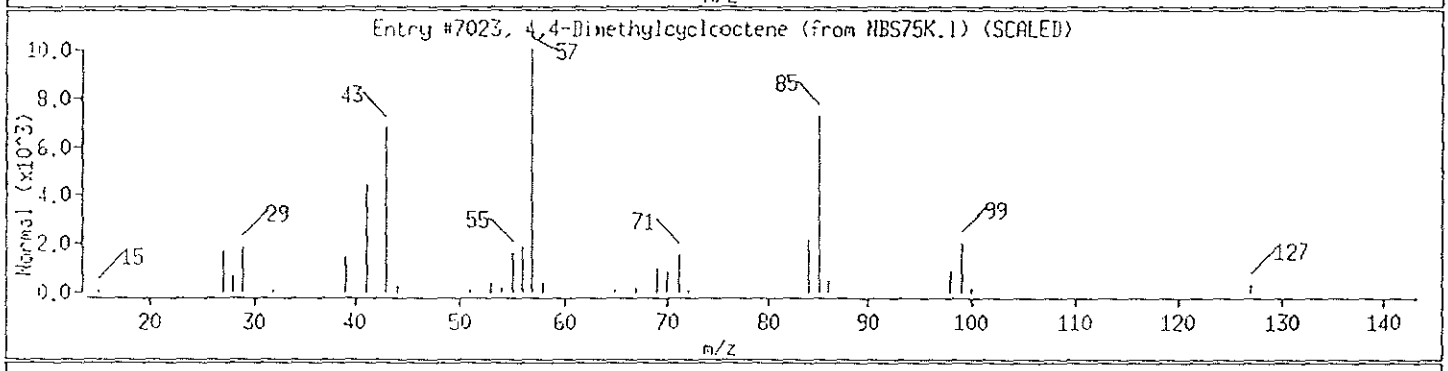


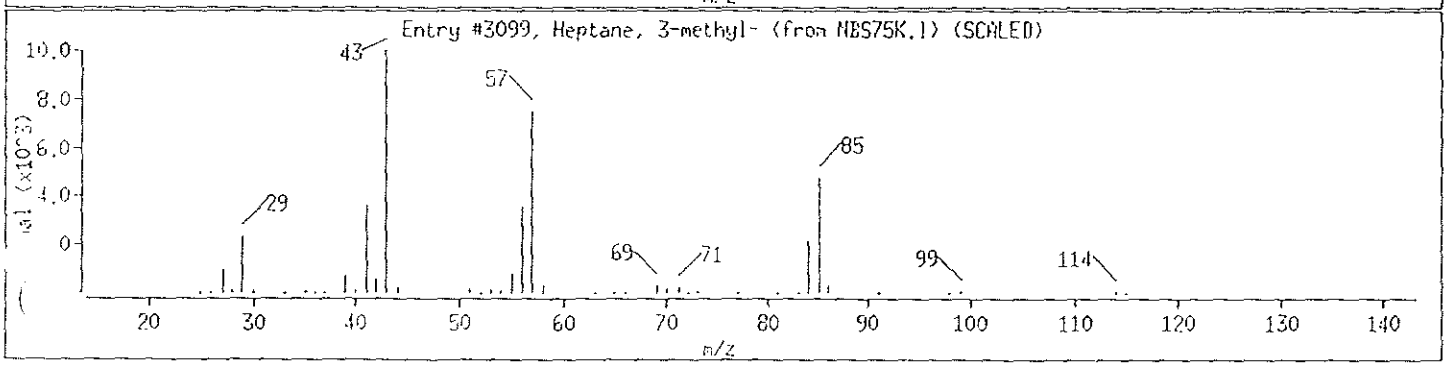
Data File: /chem/msc.i/c012296.b/c7983.d
Date : 22-JAN-96 06:11
Client ID: 17418n clj78ds005 Instrument: msc.i
Sample Info: 17418n clj78ds005
Purge Volume: 1.0 Operator: jk
Column phase: J&W DB_624 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Hexane, 2,4-dimethyl-	589-43-5	NBS75K.1	64212	86	C8H18	114
4,4-Dimethylcyclooctene	0-00-0	NBS75K.1	7023	72	C10H18	138
Heptane, 3-methyl-	589-81-1	NBS75K.1	3099	59	C8H18	114









Data File: /chem/msc.i/c012296.b/c7983.d

Date : 22-JAN-96 06:11

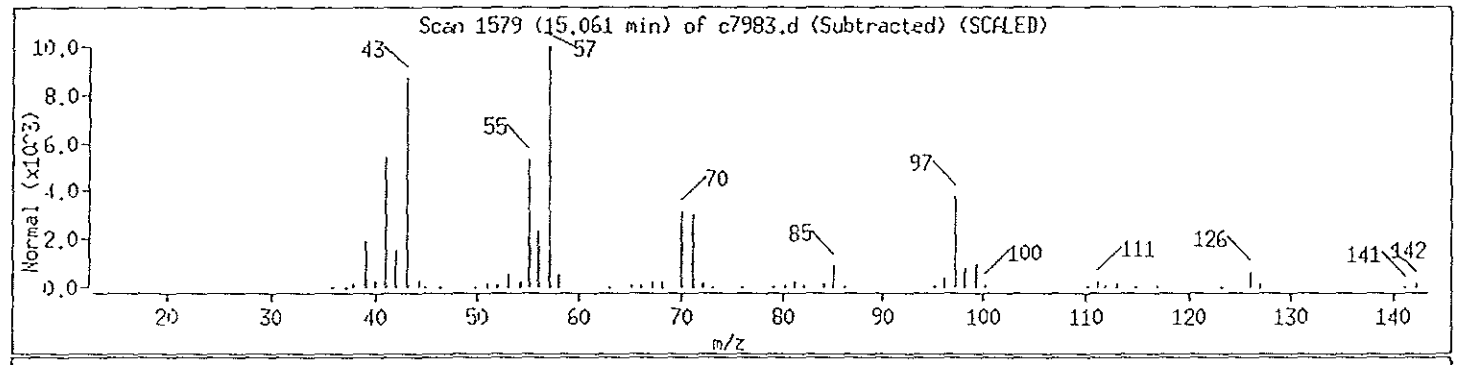
Client ID: 17418n clj78ds005 Instrument: msc.i

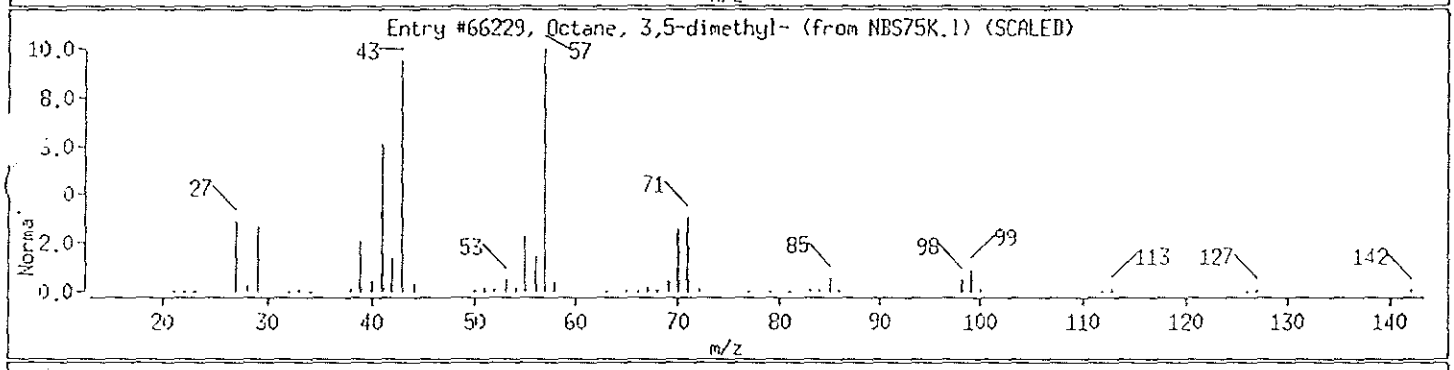
Sample Info: 17418n clj78ds005

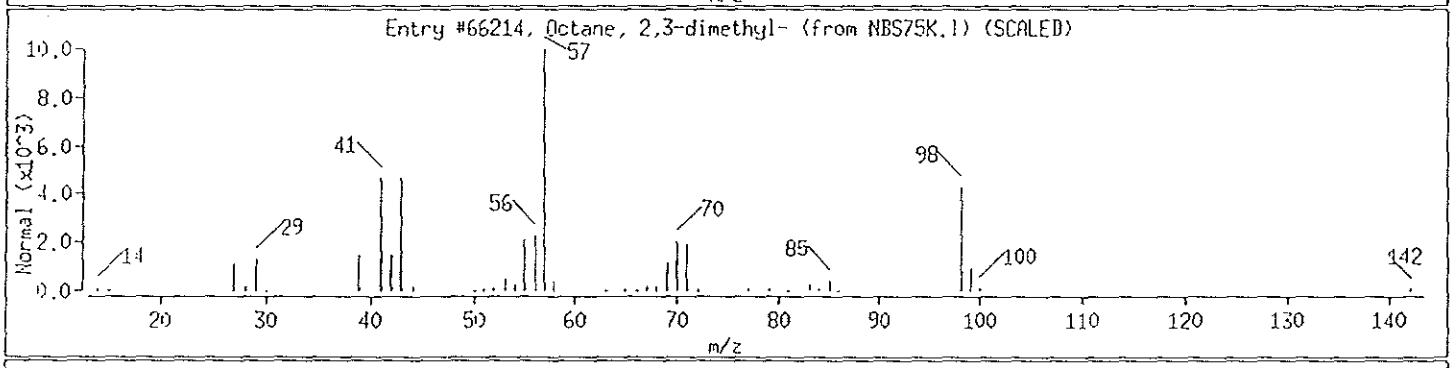
Purge Volume: 1.0 Operator: jk

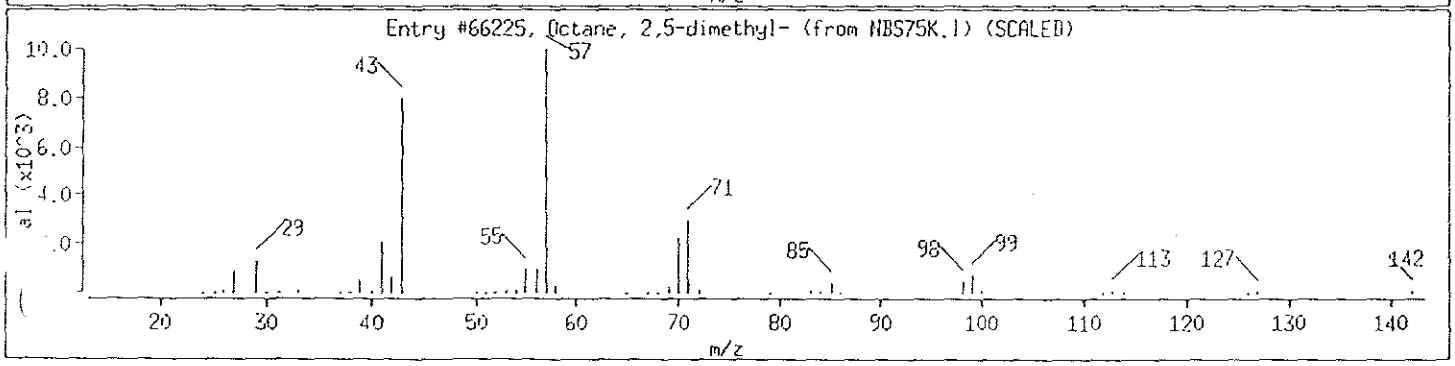
Column phase: J&W DB_624 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Octane, 3,5-dimethyl-	15869-93-9	NBS75K.l	66229	70	C10H22	142
Octane, 2,3-dimethyl-	7146-60-3	NBS75K.l	66214	58	C10H22	142
Octane, 2,5-dimethyl-	15869-89-3	NBS75K.l	66225	58	C10H22	142









Data File: /chem/msc.i/c012296.b/c7983.d

Date : 22-JAN-96 06:11

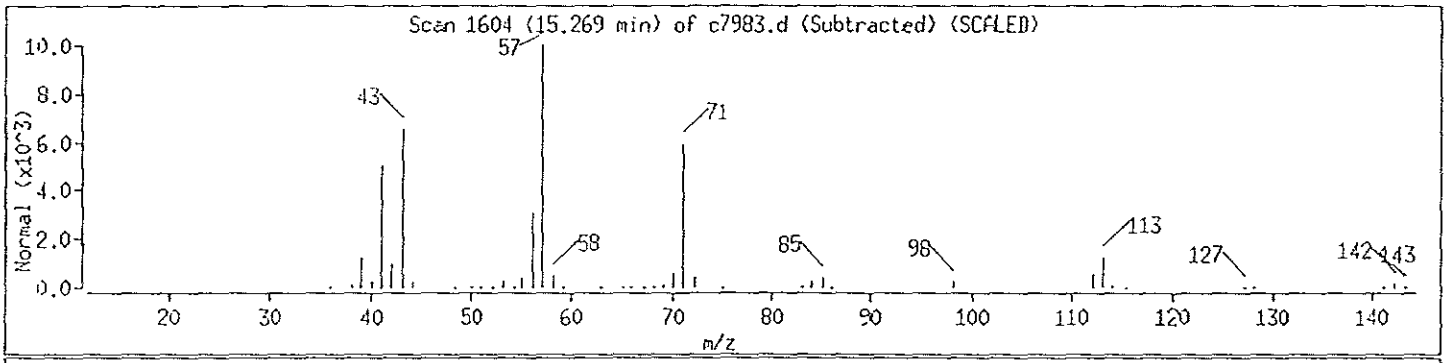
Client ID: 17418n clj78ds005 Instrument: msc.i

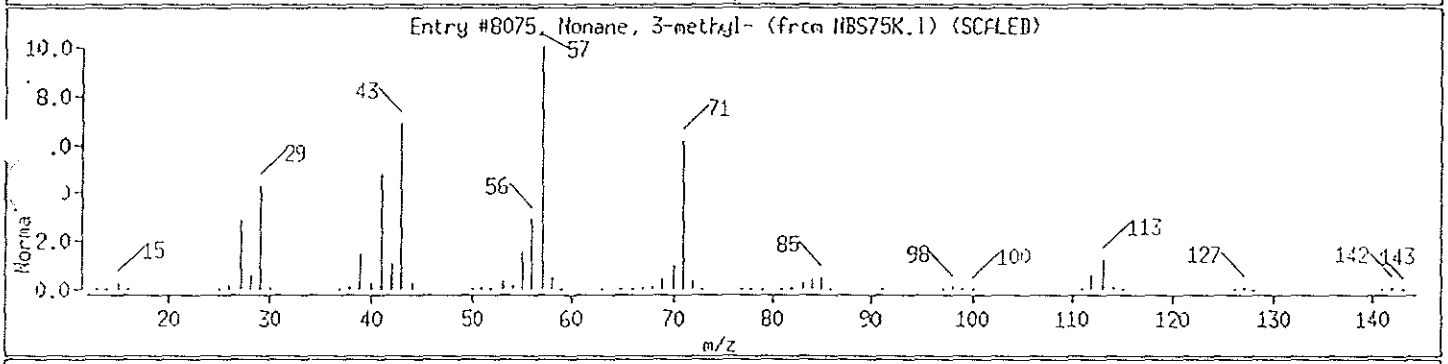
Sample Info: 17418n clj78ds005

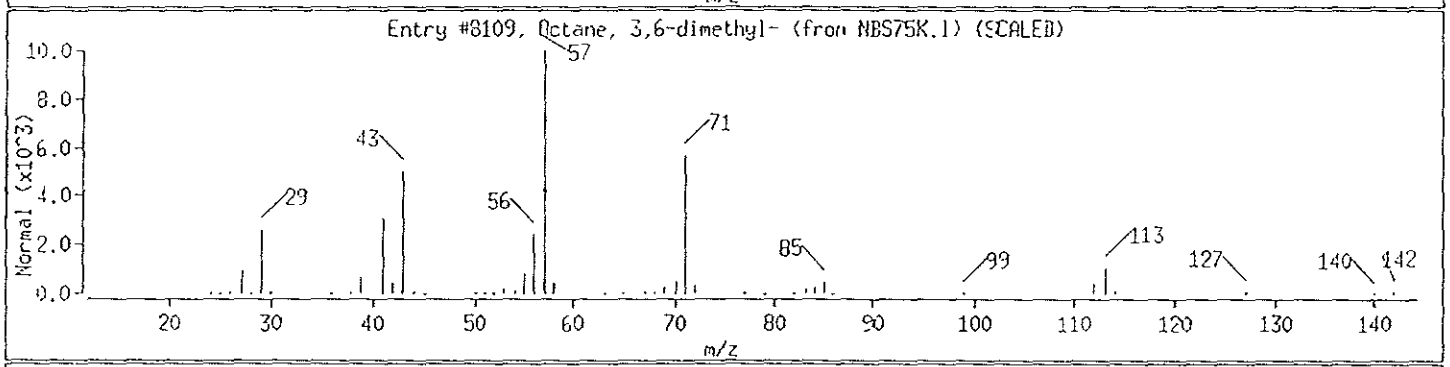
Purge Volume: 1.0 Operator: jk

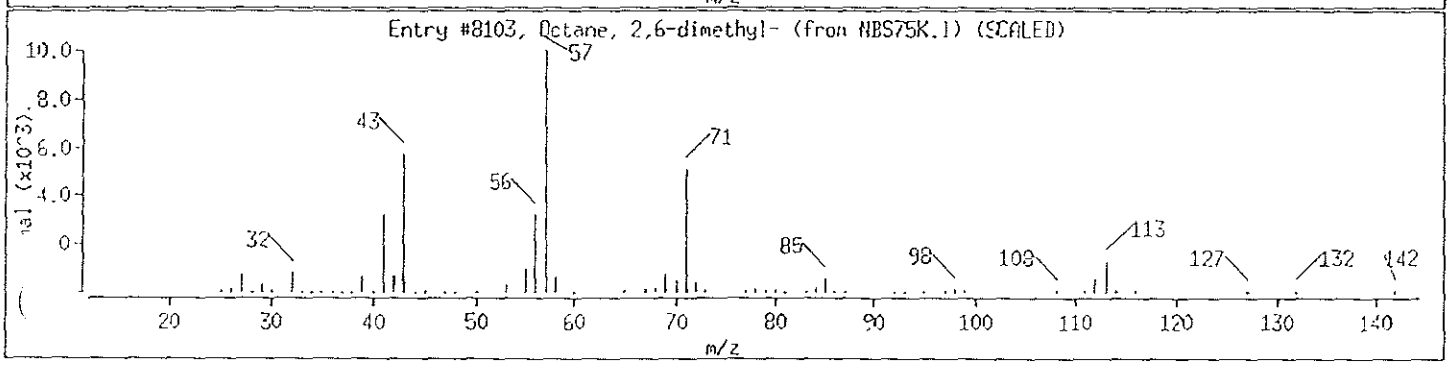
Column phase: J&W DB_624 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonane, 3-methyl-	5911-04-6	NBS75K.1	8075	91	C10H22	142
Octane, 3,6-dimethyl-	15869-94-0	NBS75K.1	8109	90	C10H22	142
Octane, 2,6-dimethyl-	2051-30-1	NBS75K.1	8103	83	C10H22	142









Data File: /chem/msc.i/c012296.b/c7983.d

Date : 22-JAN-96 06:11

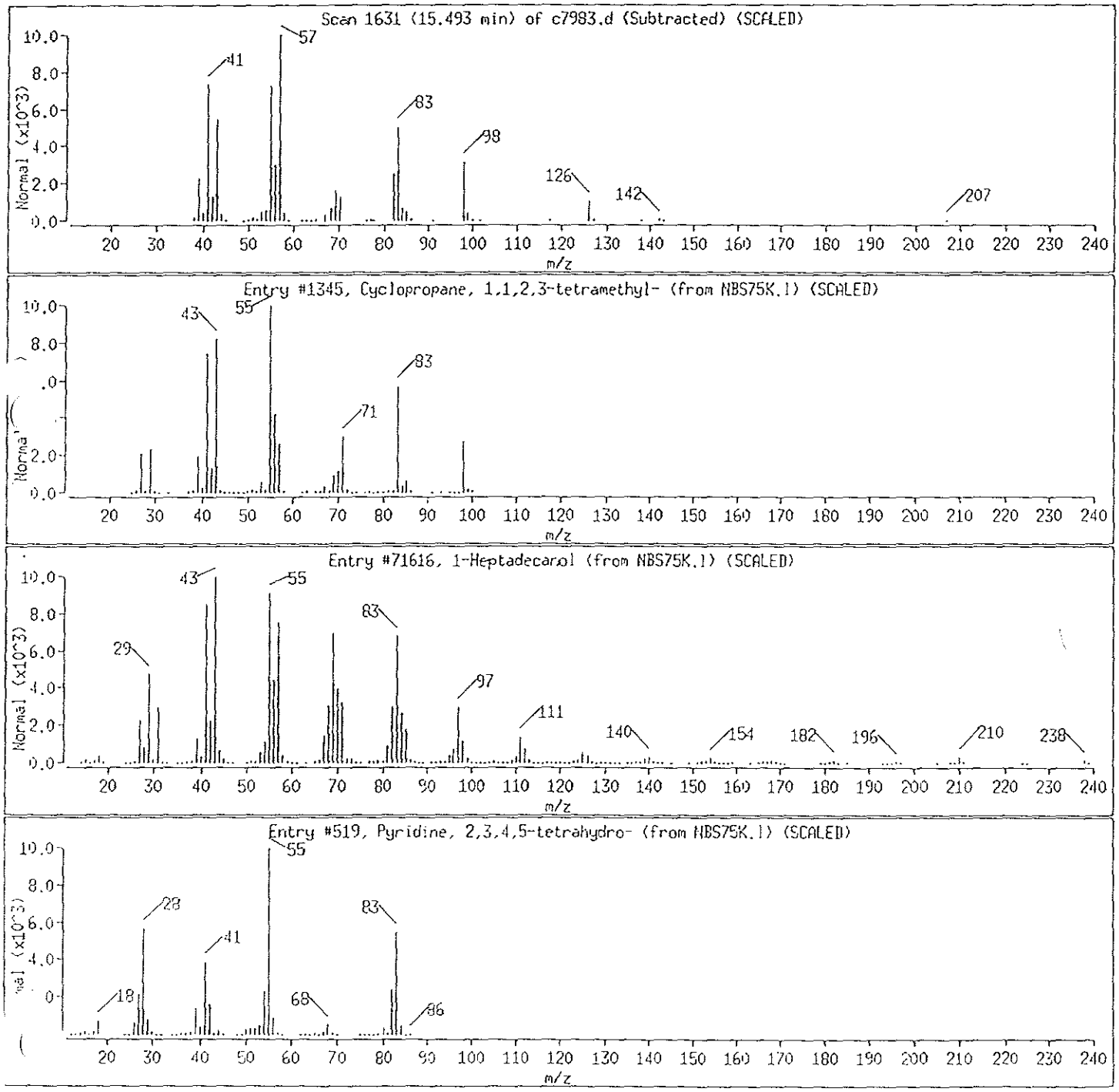
Client ID: 17418n clj78ds005 Instrument: msc.i

Sample Info: 17418n clj78ds005

Purge Volume: 1.0 Operator: jk

Column phase: J&W DB_624 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclopropane, 1,1,2,3-tetramethyl-	74752-93-5	NBS75K.1	1345	53	C7H14	98
1-Heptadecanol	1454-85-9	NBS75K.1	71616	47	C17H36O	256
Pyridine, 2,3,4,5-tetrahydro-	505-18-0	NBS75K.1	519	38	C5H9N	83



Data File: /chem/msc.i/c012296.b/c7983.d

Date : 22-JAN-96 06:11

Client ID: 17418n clj78ds005

Instrument: msc.i

Sample Info: 17418n clj78ds005

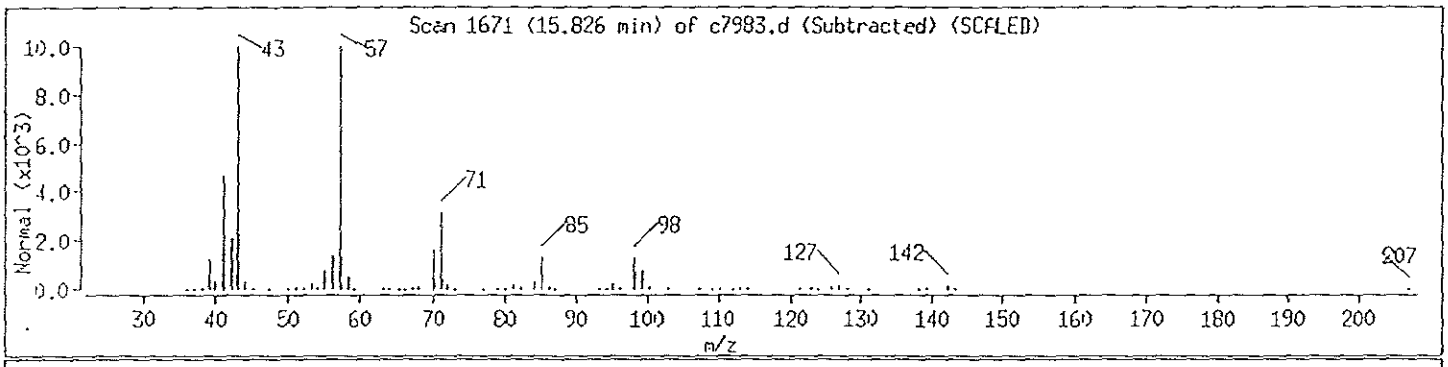
Purge Volume: 1.0

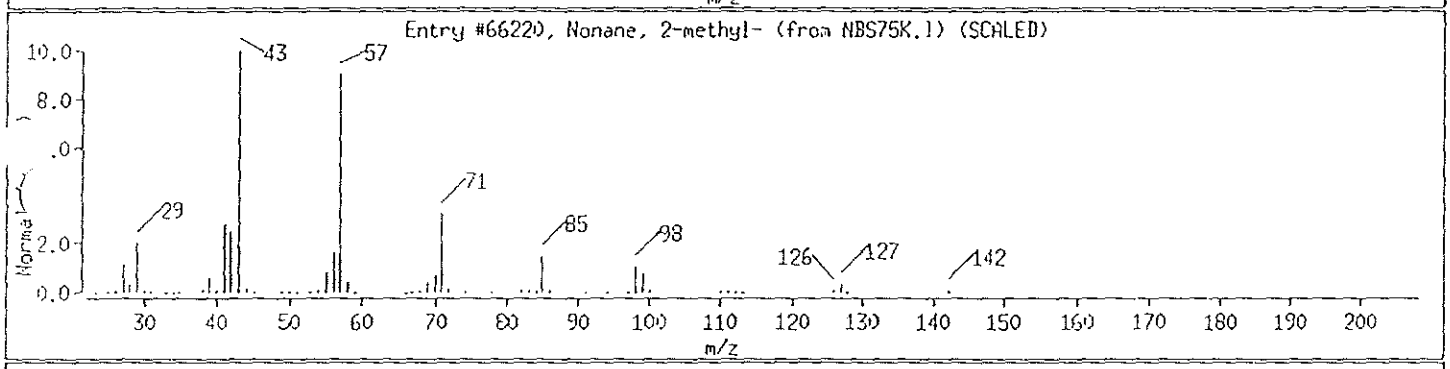
Operator: jk

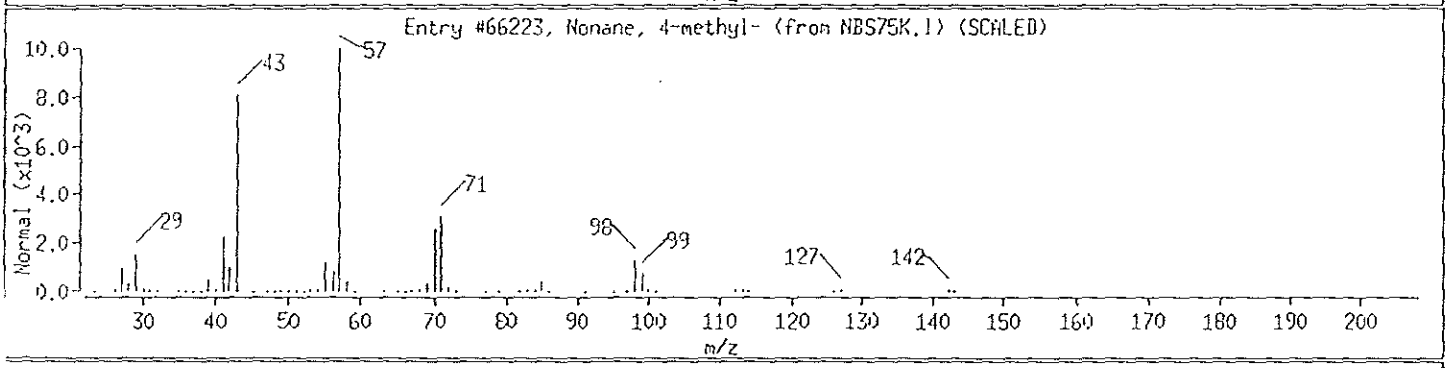
Column phase: J&W DB_624

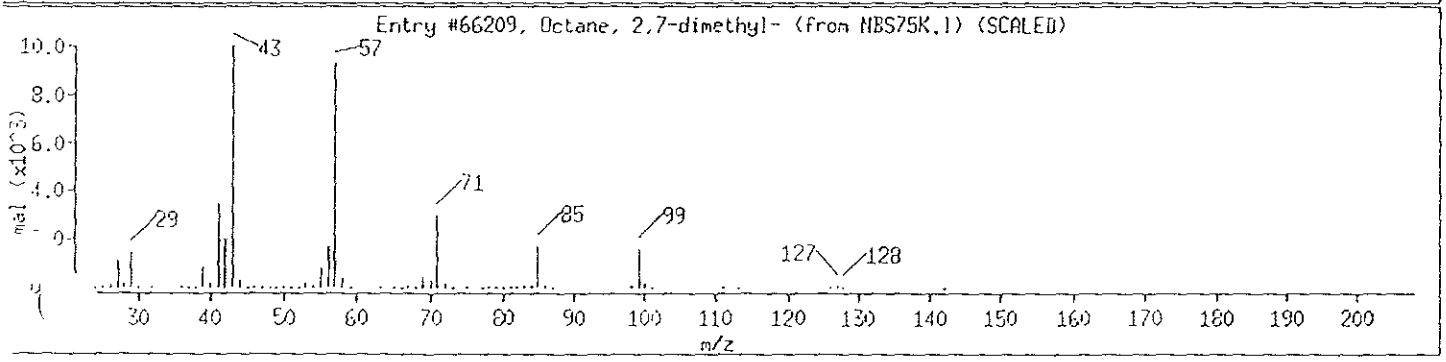
Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonane, 2-methyl-	871-83-0	NBS75K.l	66220	83	C10H22	142
Nonane, 4-methyl-	17301-94-9	NBS75K.l	66223	72	C10H22	142
Octane, 2,7-dimethyl-	1072-16-8	NBS75K.l	66209	64	C10H22	142



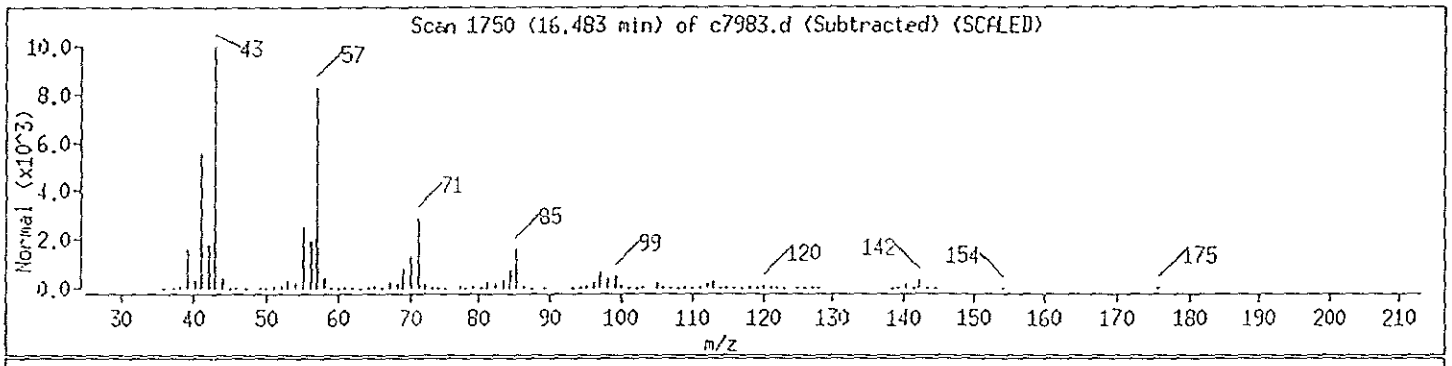


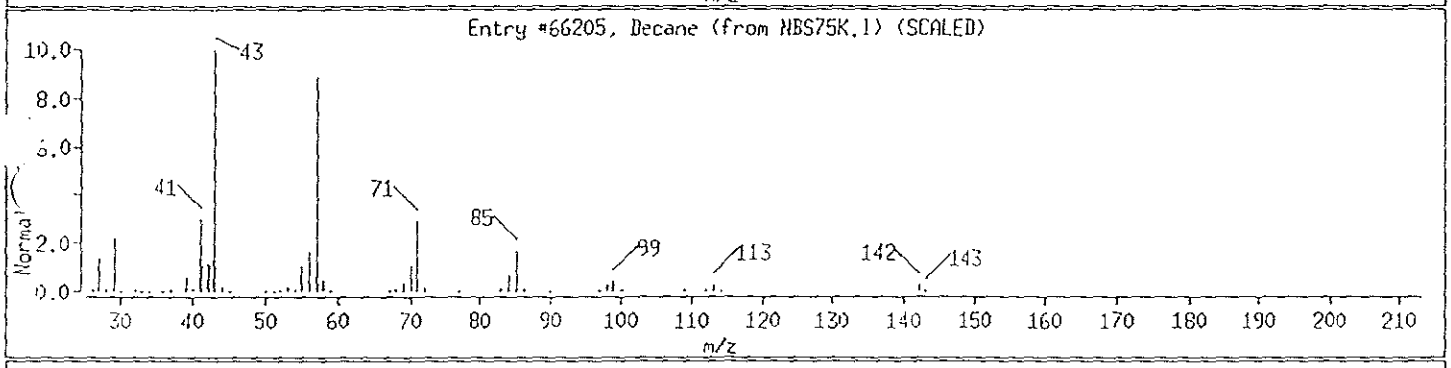


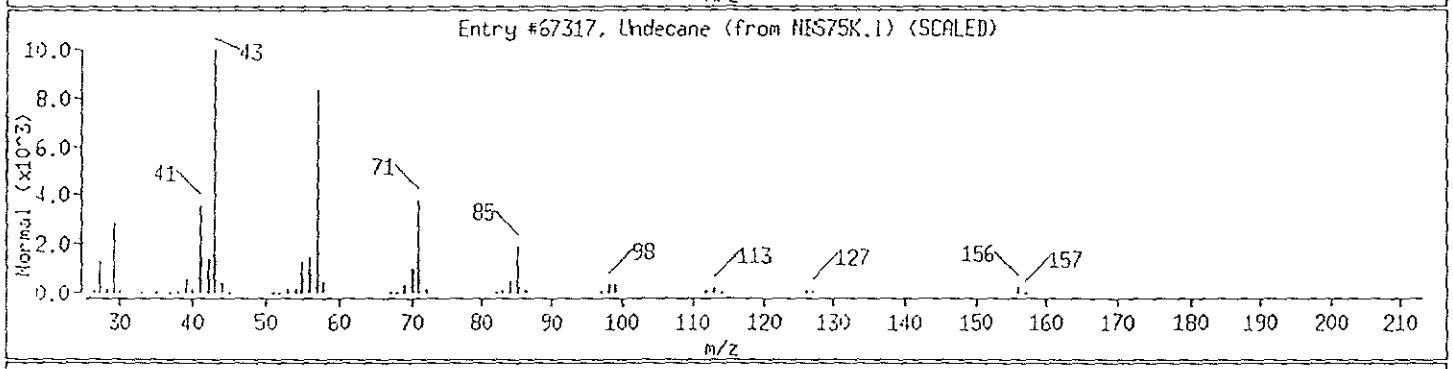


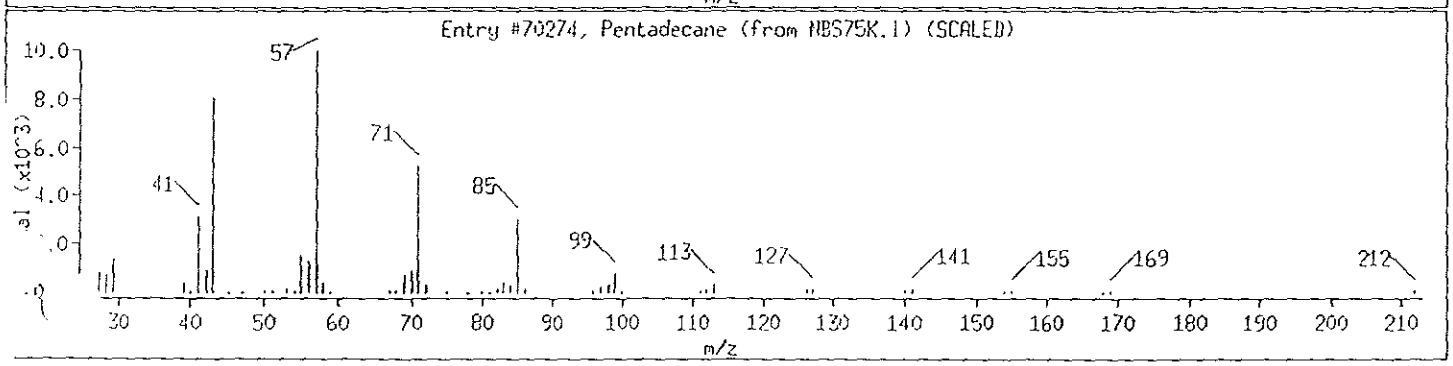
Data File: /chem/msc.i/c012296.b/c7983.d
Date : 22-JAN-96 06:11
Client ID: 17418n clj78ds005 Instrument: msc.i
Sample Info: 17418n clj78ds005
Purge Volume: 1.0 Operator: jk
Column phase: J&W DB_624 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decane	124-18-5	NBS75K.1	66205	94	C10H22	142
Undecane	1120-21-4	NBS75K.1	67317	78	C11H24	156
Pentadecane	629-62-9	NBS75K.1	70274	72	C15H32	212









Data File: /chem/msc.i/c012296.b/c7983.d

Date : 22-JAN-96 06:11

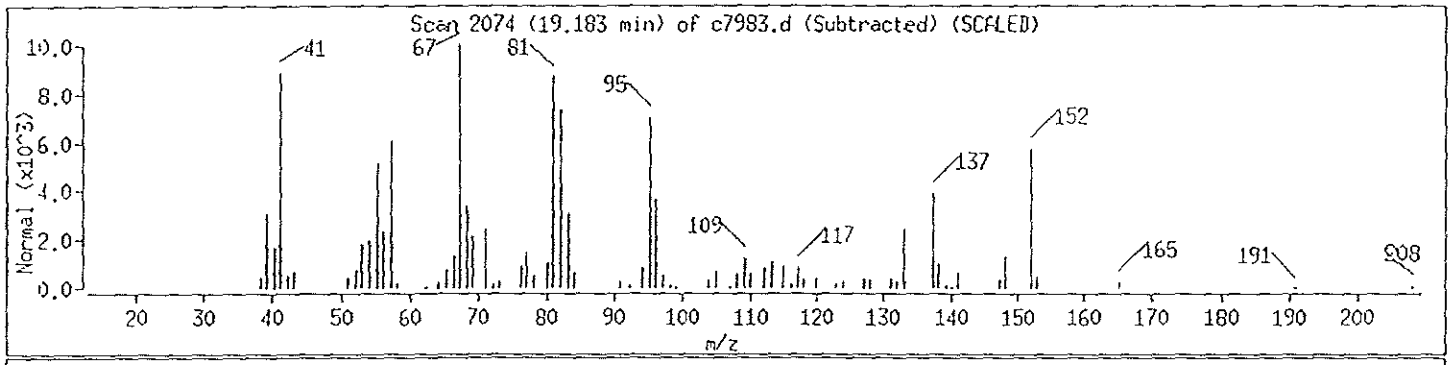
Client ID: 17418n clj78ds005 Instrument: msc.i

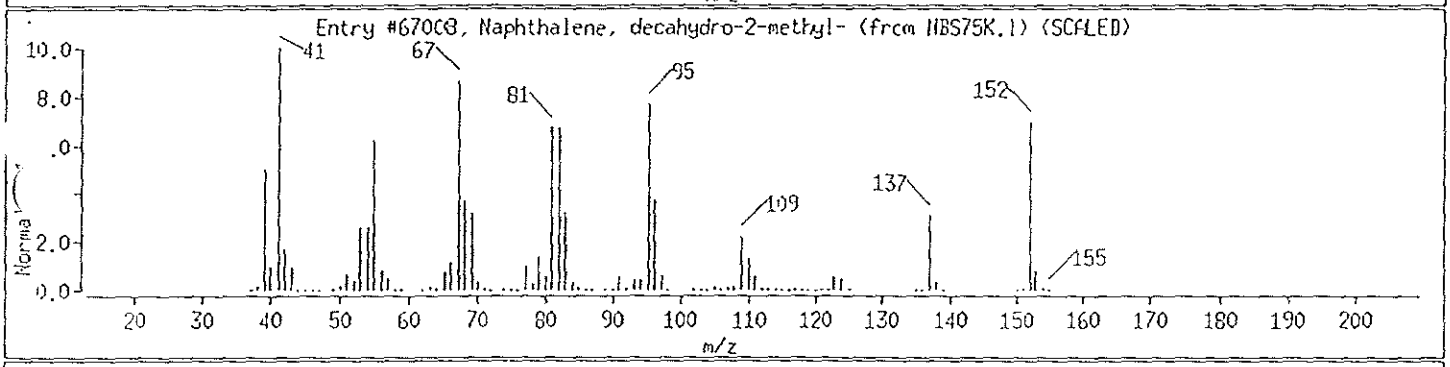
Sample Info: 17418n clj78ds005

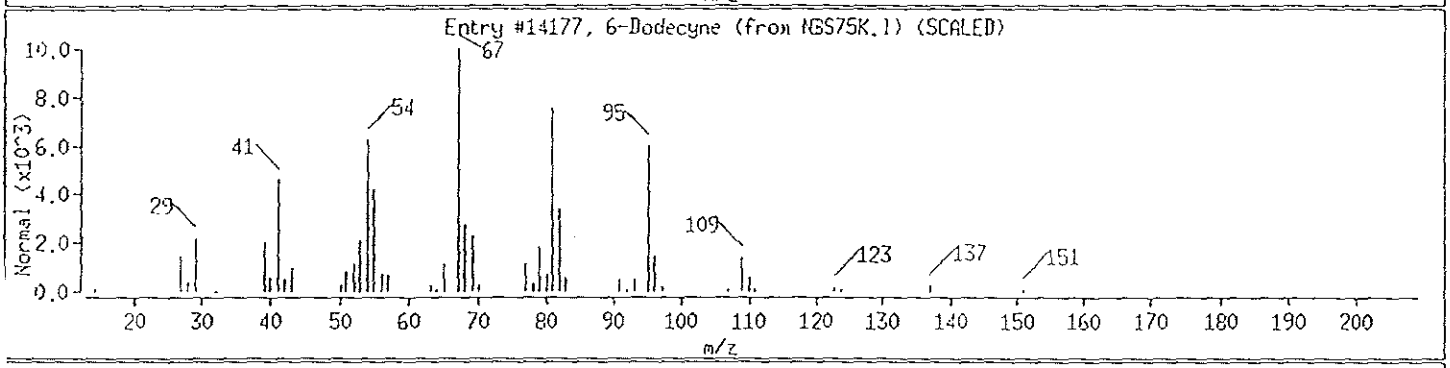
Purge Volume: 1.0 Operator: jk

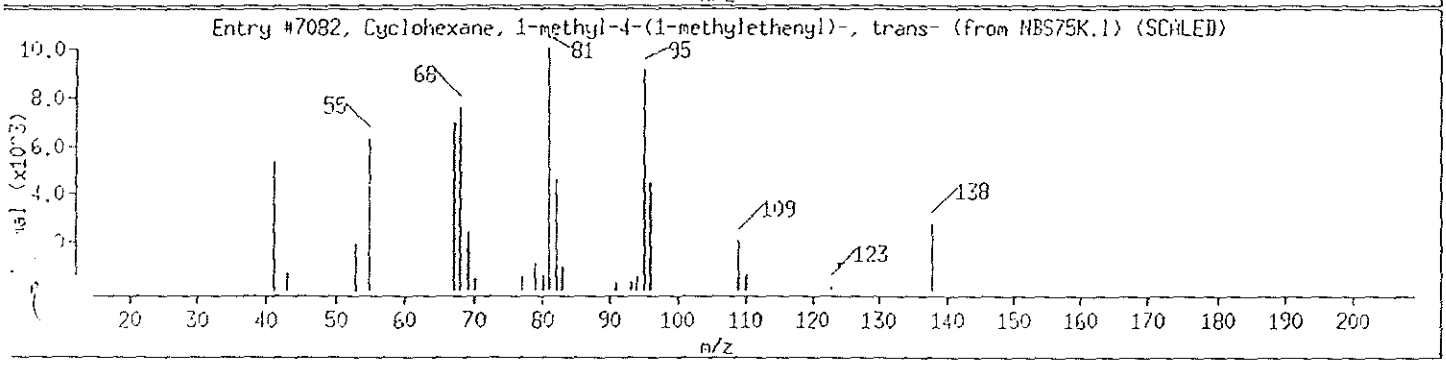
Column phase: J&W DB_624 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, decahydro-2-methyl-	2958-76-1	NBS75K.l	67008	70	C11H20	152
6-Dodecyne	6975-99-1	NBS75K.l	14177	46	C12H22	166
Cyclohexane, 1-methyl-4-(1-methylethenyl	1124-25-0	NBS75K.l	7082	45	C10H18	138









1A
VOLATILE ORGANICS ANALYSIS DATA SHEET 0109

EPA SAMPLE NO.

CLJ78RB001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) WATER Lab Sample ID: JP2497V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: A5816

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: not dec. N/A Date Analyzed: 01/23/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl Chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10 ~~15000~~	~~E~~ U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	Methyl-iso-butyl ketone	10	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethylene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0110 EPA SAMPLE NO.

CLJ78RB001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

ab Code: _____ Case No.: 17418N SAS No.: _____ SDG No.: CLJ78CS001

Matrix: (soil/water) WATER Lab Sample ID: JP2497V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: A5816

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: not dec. _____ Date Analyzed: 01/23/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

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

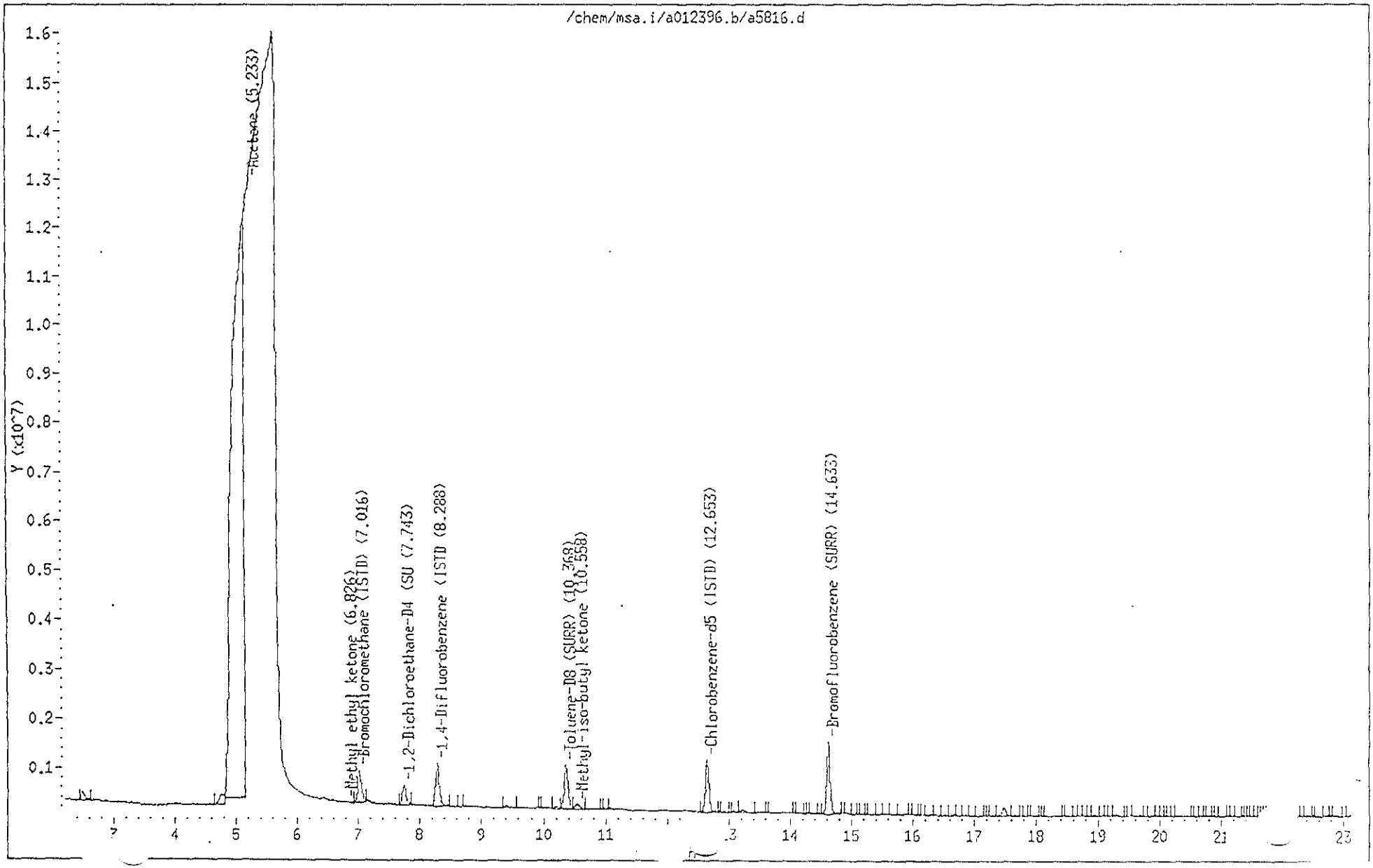
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	17.49	9	J

0111

Data File: /chem/msa.i/a012396.b/a5816.d
Date : 23-JAN-96 10:02
Client ID: 17418n clj78rb001
Sample Info: 17418n clj78rb001
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msa.i

Operator: jk
Column diameter: 0.53



Data File: /chem/msa.i/a012396.b/a5816.d
Report Date: 24-Jan-1996 11:27

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240 + Screen

Data file : /chem/msa.i/a012396.b/a5816.d
Lab Smp Id: Client Smp ID: 17418n clj78rb001
Inj Date : 23-JAN-96 10:02
Operator : jk Inst ID: msa.i
Smp Info : 17418n clj78rb001
Misc Info : jp2497v,n1v4919,m2,5000,1,5.0,5.0,960123,
Comment :
Method : /chem/msa.i/a012396.b/011996_ambia.m
Meth Date : 24-Jan-1996 11:22 glenn Quant Type: ISTD
Cal Date : 23-JAN-96 07:25 Cal File: a5812.d
Als bottle: 6
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

1/24/96

IPA not acetone

Rerun @ 50x

see A5823 attached

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* Acetone	43.00	5.233	4.749	(0.746)	33657821	14800	14800
Methyl ethyl ketone	72.00	6.826	6.599	(0.824)	2418	3.34	~~3.34(Q)~~ ms
* 22 Bromochloromethane (ISTD)	128.00	7.016	6.976	(1.000)	388881	50.0	
$ 27 1,2-Dichloroethane-D4 (SURR)	65.00	7.743	7.696	(0.934)	642927	51.4	51.4
* 30 1,4-Difluorobenzene (ISTD)	114.00	8.288	8.249	(1.000)	1373593	50.0	
37 Methyl-iso-butyl ketone	43.00	10.558	10.149	(0.834)	187003	16.8	~~16.8(Q)~~ ms
$ 38 Toluene-D8 (SURR)	98.00	10.368	10.363	(0.819)	1285689	51.9	51.9
* 47 Chlorobenzene-d5 (ISTD)	117.00	12.653	12.651	(1.000)	1177732	50.0	
$ 56 Bromofluorobenzene (SURR)	95.00	14.633	14.622	(1.156)	1035756	53.4	53.4

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: /chem/msa.i/a012396.b/a5816.d

Date : 23-JAN-96 10:02

Client ID: 17418n clj78rb001

Instrument: msa.i

Sample Info: 17418n clj78rb001

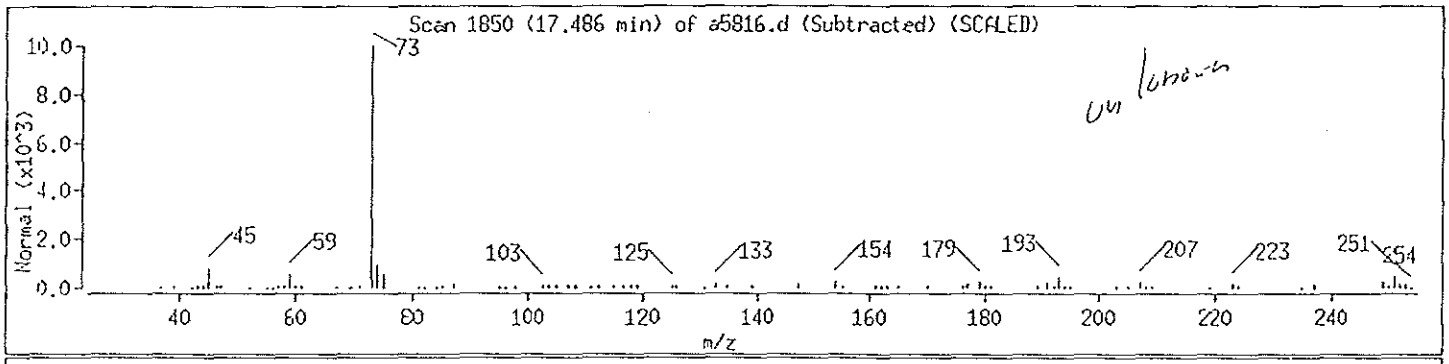
Purge Volume: 1.0

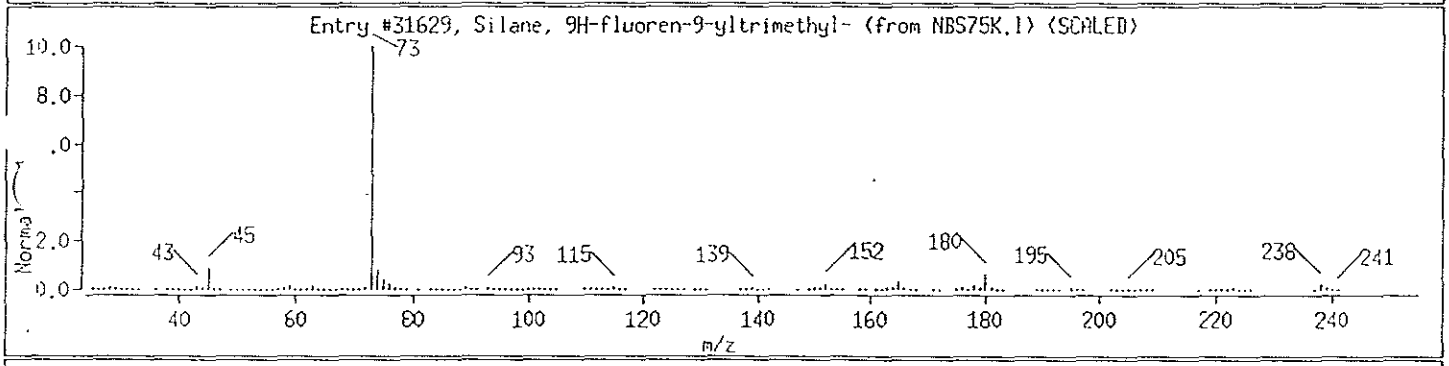
Operator: jk

Column phase: J&W DB_624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Silane, 9H-fluoren-9-yltrimethyl-	7385-10-6	NBS75K.l	31629	25	C16H18Si	238





1A
VOLATILE ORGANICS ANALYSIS DATA SHEET 0114

EPA SAMPLE NO.

CLJ78RB001DL

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) WATER Lab Sample ID: JP2497V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: A5823

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: not dec. N/A Date Analyzed: 01/23/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 500.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2500	U
74-83-9	Bromomethane	2500	U
75-01-4	Vinyl Chloride	2500	U
75-00-3	Chloroethane	2500	U
75-09-2	Methylene Chloride	2500	U
67-64-1	Acetone	5000	U
75-15-0	Carbon Disulfide	2500	U
75-35-4	1,1-Dichloroethene	2500	U
75-34-3	1,1-Dichloroethane	2500	U
540-59-0	1,2-Dichloroethene (total)	2500	U
67-66-3	Chloroform	2500	U
107-06-2	1,2-Dichloroethane	2500	U
78-93-3	2-Butanone	2500	U
71-55-6	1,1,1-Trichloroethane	2500	U
56-23-5	Carbon Tetrachloride	2500	U
75-27-4	Bromodichloromethane	2500	U
78-87-5	1,2-Dichloropropane	2500	U
10061-01-5	cis-1,3-Dichloropropene	2500	U
79-01-6	Trichloroethene	2500	U
124-48-1	Dibromochloromethane	2500	U
79-00-5	1,1,2-Trichloroethane	2500	U
71-43-2	Benzene	2500	U
10061-02-6	trans-1,3-Dichloropropene	2500	U
75-25-2	Bromoform	2500	U
108-10-1	Methyl-iso-butyl ketone	5000	U
591-78-6	2-Hexanone	2500	U
127-18-4	Tetrachloroethylene	2500	U
79-34-5	1,1,2,2-Tetrachloroethane	2500	U
108-88-3	Toluene	2500	U
108-90-7	Chlorobenzene	2500	U
100-41-4	Ethylbenzene	2500	U
100-42-5	Styrene	2500	U
1330-20-7	Xylene (total)	2500	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0115

EPA SAMPLE NO.

CLJ78RB001DL

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: _____ Case No.: 17418N SAS No.: _____ SDG No.: CLJ78CS001

Matrix: (soil/water) WATER Lab Sample ID: JP2497V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: A5823

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: not dec. _____ Date Analyzed: 01/23/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 500.0

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

Number TICs found: 1

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

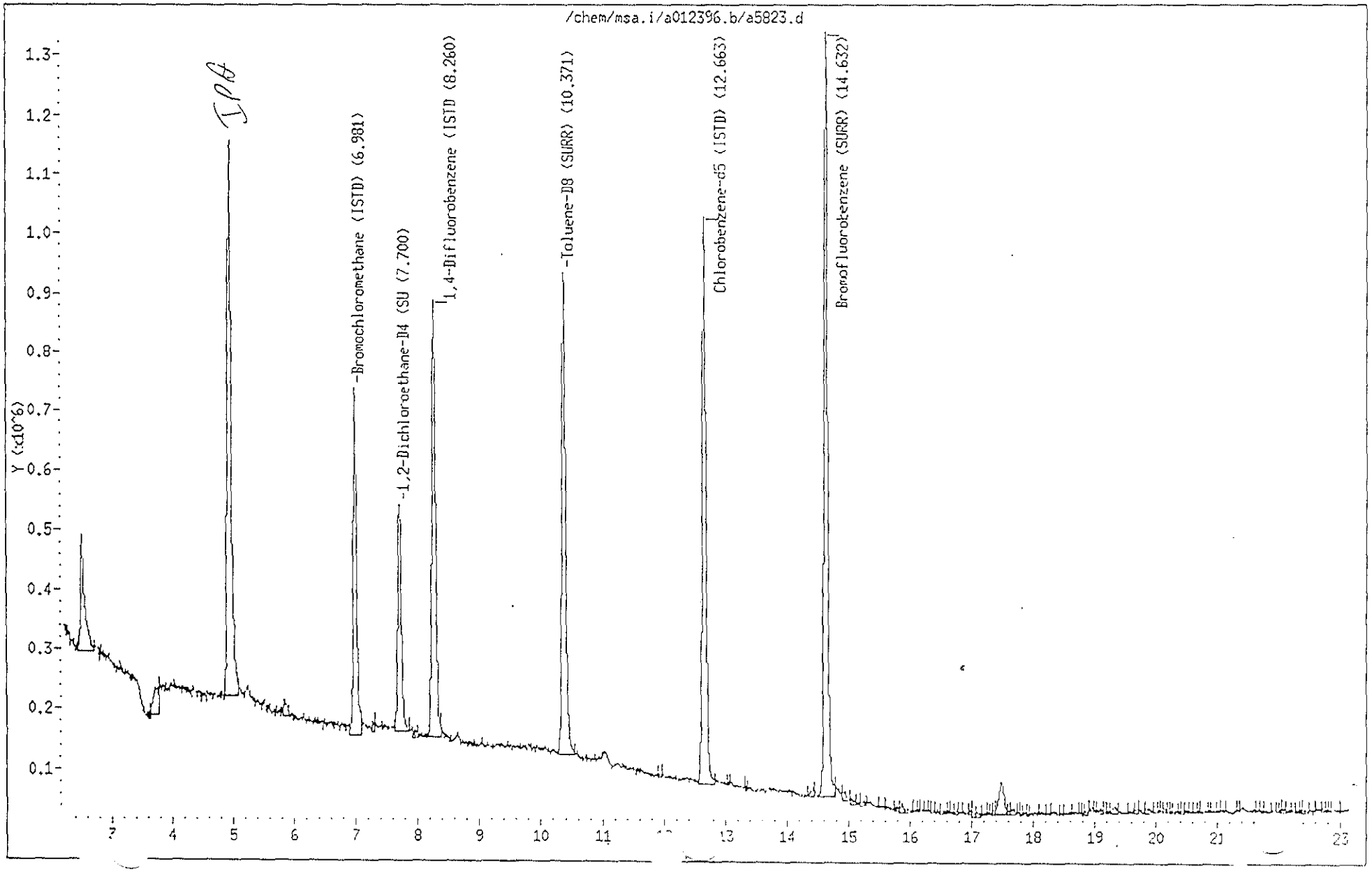
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 67-63-0	Isopropyl Alcohol	4.94	47000	JND

0116

Data File: /chem/msa.i/a012396.b/a5823.d
Date : 23-JAN-96 14:10
Client ID: clj78rb001 rerun
Sample Info: 17418n clj78rb001 500x = 10ul/5ml
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msa.i

Operator: jk
Column diameter: 0.53



Data File: /chem/msa.i/a012396.b/a5823.d
Report Date: 24-Jan-1996 11:28

+Screen (IPA only)

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msa.i/a012396.b/a5823.d
Lab Smp Id: Client Smp ID: clj78rb001 rerun
Inj Date : 23-JAN-96 14:10
Operator : jk Inst ID: msa.i
Smp Info : 17418n clj78rb001 500x = 10ul/5ml
Misc Info : jp2497v,n1v4919,m2,5000,500,5.0,5.0,960123,
Comment :
Method : /chem/msa.i/a012396.b/011996_ambia.m
Meth Date : 24-Jan-1996 11:22 glenn Quant Type: ISTD
Cal Date : 23-JAN-96 07:25 Cal File: a5812.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

MK 1/24/96

Quant for Acetone and IPA TIC only

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
2 Bromochloromethane (ISTD)	128.00	6.981	6.976	(1.000)	262592	50.0	
$ 1,2-Dichloroethane-D4 (SURR)	65.00	7.700	7.696	(0.932)	536991	52.0	52.0
* 30 1,4-Difluorobenzene (ISTD)	114.00	8.260	8.249	(1.000)	1132789	50.0	
$ 38 Toluene-D8 (SURR)	98.00	10.371	10.363	(0.819)	1142001	52.7	52.7
* 47 Chlorobenzene-d5 (ISTD)	117.00	12.663	12.641	(1.000)	1030435	50.0	
$ 56 Bromofluorobenzene (SURR)	95.00	14.632	14.622	(1.156)	872474	51.5	51.5

NO ACETONE

#270 will have elevated

Data File: /chem/msa.i/a012396.b/a5823.d

Date : 23-JAN-96 14:10

Client ID: clj78rb001 rerun

Instrument: msa.i

Sample Info: 17418n clj78rb001 500x = 10ul/5ml

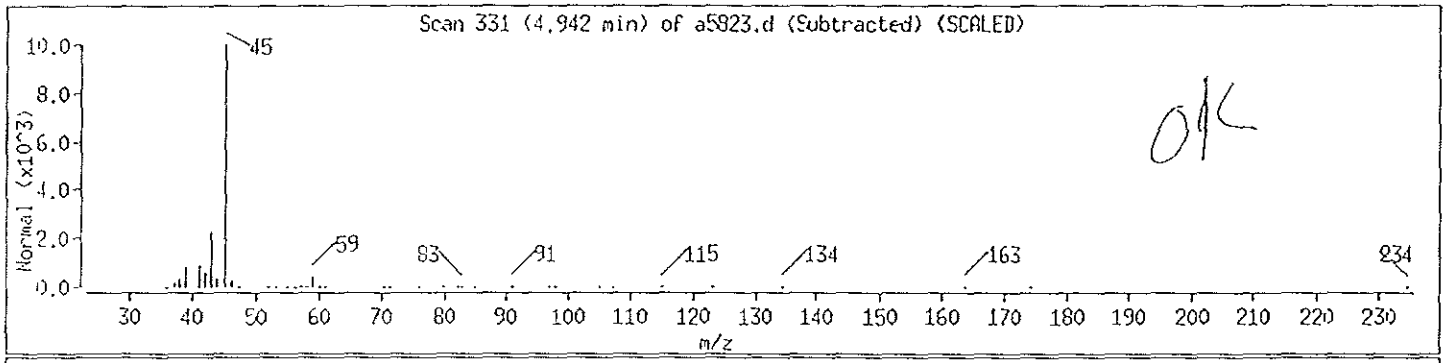
Purge Volume: 1.0

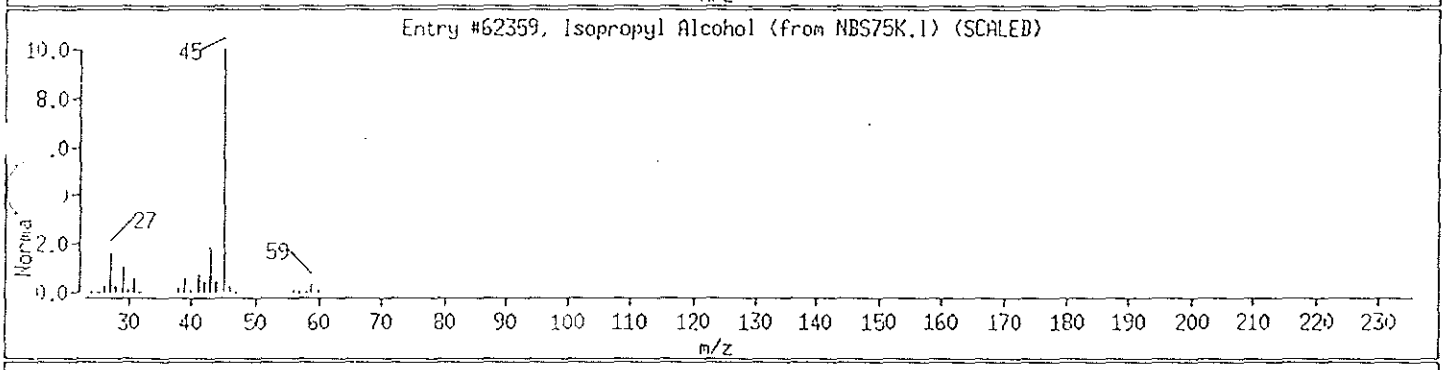
Operator: jk

Column phase: J&W DB_624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Isopropyl Alcohol	67-63-0	NBS75K.1	62359	83	C3H8O	60





1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0119

TRIPBLANK

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) WATER Lab Sample ID: JP2498V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: A5824

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: not dec. N/A Date Analyzed: 01/23/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

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

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0120

TRIPBLANK

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: _____ Case No.: 17418N SAS No.: _____ SDG No.: CLJ78CS001

Matrix: (soil/water) WATER Lab Sample ID: JP2498V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: A5824

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: not dec. _____ Date Analyzed: 01/23/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

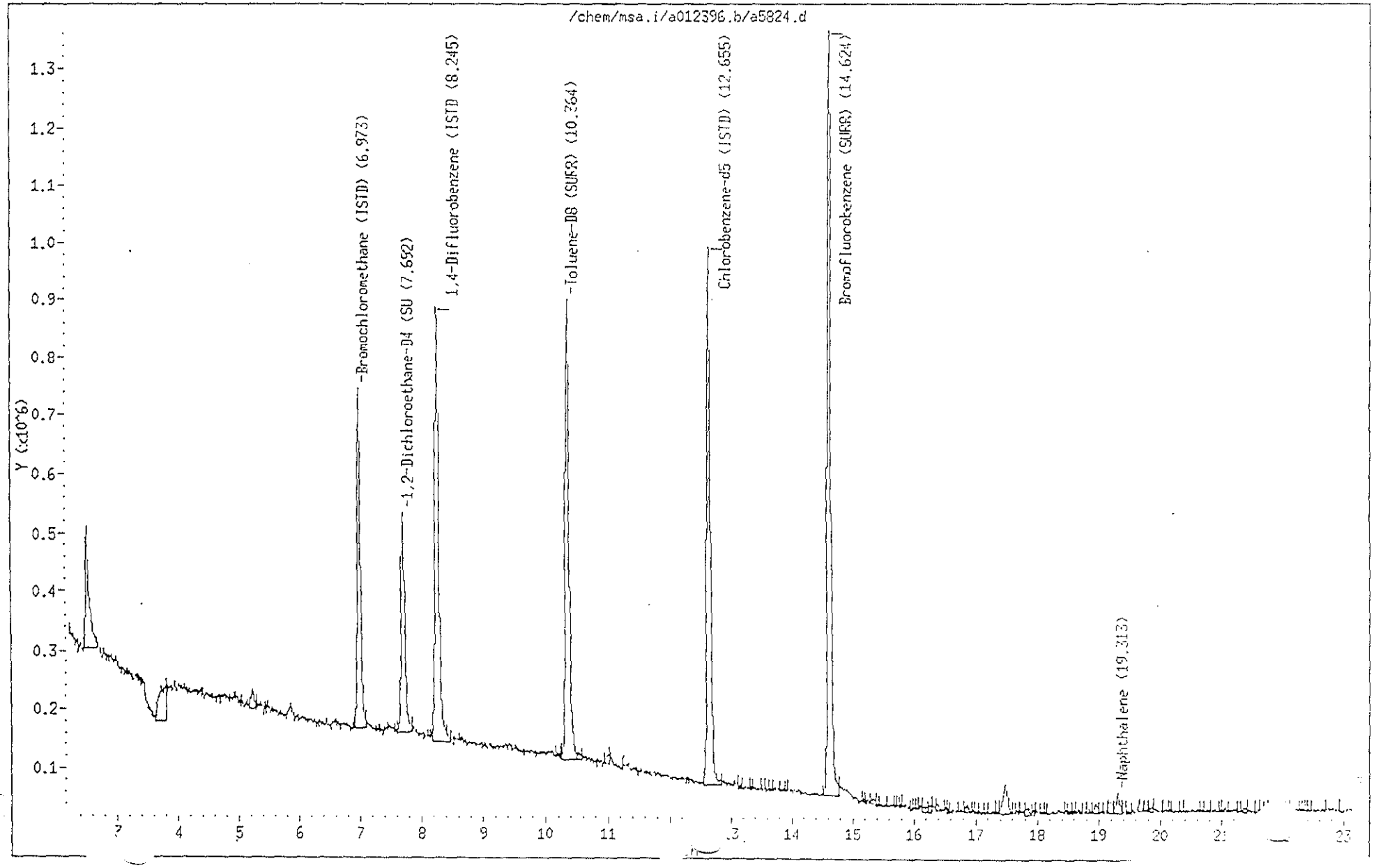
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0121

Data File: /chem/msa.i/a012396.b/a5824.d
Date : 23-JAN-96 14:44
Client ID: 17418n tripblank
Sample Info: 17418n tripblank
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msa.i

Operator: jk
Column diameter: 0.53



Data File: /chem/msa.i/a012396.b/a5824.d
Report Date: 24-Jan-1996 11:57

OHM Analytical Division

d Screen

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msa.i/a012396.b/a5824.d
Lab Smp Id: Client Smp ID: 17418n tripblank
Inj Date : 23-JAN-96 14:44
Operator : jk Inst ID: msa.i
Smp Info : 17418n tripblank
Misc Info : jp2498v,n1v4919,m2,5000,1,5.0,5.0,960123,
Comment :
Method : /chem/msa.i/a012396.b/011996_ambia.m
Meth Date : 24-Jan-1996 11:22 glenn Quant Type: ISTD
Cal Date : 23-JAN-96 07:25 Cal File: a5812.d
Als bottle: 2
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

MK

1/24/96

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*		Bromochloromethane (ISTD)	128.00	6.973	6.976	(1.000)	268930	50.0	
S		1,2-Dichloroethane-D4 (SURR)	65.00	7.684	7.696	(0.932)	560188	54.1	54.1
*	30	1,4-Difluorobenzene (ISTD)	114.00	8.245	8.249	(1.000)	1136923	50.0	
S	38	Toluene-D8 (SURR)	98.00	10.356	10.363	(0.819)	1115207	52.9	52.9
*	47	Chlorobenzene-d5 (ISTD)	117.00	12.647	12.641	(1.000)	1003305	50.0	
S	56	Bromofluorobenzene (SURR)	95.00	14.624	14.622	(1.156)	896226	54.3	~~54.3~~
	75	Naphthalene	128.00	19.313	19.305	(1.527)	35576	1.39	1.39

Report Date : 24-Jan-1996 09:59

OHM Analytical Division

INITIAL CALIBRATION DATA

Start Cal Date : 19-JAN-96 13:12
End Cal Date : 19-JAN-96 15:39
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem/msa.i/a011996.b/011996_ambia.m
Cal Date : 24-Jan-1996 09:59 glenn
Curve Type : Average

CLP, 8240, 8260
MK

no -2-chloroethyl vinyl ether

Calibration File Names:
Level 1: /chem/msa.i/a011996.b/a5783.d
Level 2: /chem/msa.i/a011996.b/a5784.d
Level 3: /chem/msa.i/a011996.b/a5785.d
Level 4: /chem/msa.i/a011996.b/a5786.d
Level 5: /chem/msa.i/a011996.b/a5787.d

	Compound	10 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	RRF	% RSD
1	Dichlorodifluoromethane	2.69408	2.03158	2.63145	2.63728	2.50396	2.50067	10.828
	Methyl chloride	0.83322	0.69254	0.90460	0.84208	0.86465	0.82742	9.704
3	Vinyl chloride	0.83551	0.73490	0.98058	0.85947	0.95298	0.89469	11.891
4	Methyl bromide	0.92869	0.60381	0.71016	0.69576	0.61130	0.71014	18.497
5	Chloroethane	*****	0.35335	0.27877	0.22618	0.20230	0.26650	24.408
6	Trichlorofluoromethane	3.53214	2.81353	3.54346	2.97920	*****	3.21708	11.703
7	Ethyl ether	0.61694	0.57074	0.55665	0.55685	0.50163	0.58856	10.803
8	Acrolein	0.65925	0.69313	0.72549	0.68307	0.67652	0.68869	3.676
9	1,1,2-Trichlorotrifluoroethan	2.67292	2.92126	2.51664	2.42732	2.14433	2.53659	11.364
10	1,1-Dichloroethylene	1.02356	1.25682	1.08802	1.05938	0.93275	1.07210	11.067
11	Acetone	0.45479	0.38432	0.30854	0.28083	0.27702	0.34110	22.515
12	Carbon disulfide	3.00283	3.55327	3.08688	3.02527	2.93046	3.11974	7.972
13	Methylene chloride	1.55081	1.48520	1.23284	1.26585	1.23714	1.35457	11.188
14	Acrylonitrile	0.23156	0.29769	0.29383	0.26847	0.25947	0.27220	9.830
15	1,2-Trans-dichloroethylene	1.15763	1.43353	1.20421	1.13720	1.09353	1.20526	11.089
16	Tert-Butyl Methyl Ether	2.41932	3.07367	2.53671	2.74711	2.50170	2.65570	9.906
17	1,1-Dichloroethane	2.10599	2.25853	2.05047	1.95327	1.93888	2.06343	6.206
18	1,2-cis-Dichloroethylene	1.19295	1.33956	1.16463	1.08706	1.07649	1.17216	9.040
19	2,2-Dichloropropane	1.74144	1.58030	1.69336	1.54232	1.59199	1.62988	5.136
20	Methyl ethyl ketone	0.03287	0.03440	0.02742	0.03524	0.02853	0.03169	11.103
21	Ethyl acetate	2.50158	3.08590	2.61867	2.53336	2.48840	2.64558	9.497
23	Chloroform	2.70109	3.08290	2.68830	2.61238	2.50866	2.71871	8.000
24	1,1,1-Trichloroethane	0.64356	0.81036	0.61577	0.78901	0.59348	0.69043	14.712
25	1,1-Dichloropropene	0.52281	0.58509	0.46413	0.48330	0.34331	0.47993	18.647
26	Carbon tetrachloride	0.77636	0.90380	0.75415	0.85959	0.63446	0.78567	13.252
28	Benzene	0.82005	0.91134	0.76524	0.92910	0.53378	0.79190	20.088
	,2-Dichloroethane	2.26584	2.29127	2.03528	1.86749	1.50673	1.99333	15.205

OHM Analytical Division

INITIAL CALIBRATION DATA

Start Cal Date : 19-JAN-96 13:12
End Cal Date : 19-JAN-96 15:39
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem/msa.i/a011996.b/011996_ambia.m
Cal Date : 24-Jan-1996 09:59 glenn
Curve Type : Average

Compound	10 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	RRF	% RSD
31 Trichloroethylene	0.51882	0.62288	0.50345	0.52566	0.32409	0.51993	23.605
32 1,2-Dichloropropane	0.39966	0.42884	0.33362	0.50554	0.36012	0.41556	13.515
33 Dibromomethane	0.58881	0.64449	0.54564	0.72181	0.52302	0.60575	13.023
34 Dichlorobromomethane	1.01361	1.05890	0.92570	1.24124	0.88943	1.02573	13.461
35 2-Chloroethylvinyl ether	-----	-----	-----	-----	-----	-----	----- <-
36 cis-1,3-Dichloropropylene	0.67628	0.68511	0.63758	0.79619	0.57339	0.67381	12.059
37 Methyl-iso-butyl ketone	0.48754	0.51750	0.48021	0.45812	0.43909	0.47651	6.263
39 Toluene	1.15734	1.18254	1.12498	1.07524	0.99715	1.10945	6.792
40 trans-1,3-Dichloropropylene	0.61522	0.60371	0.56035	0.72481	0.53272	0.60766	12.099
41 1,1,2-Trichloroethane	0.47725	0.47290	0.41045	0.54003	0.39122	0.45838	12.925
42 Tetrachloroethylene	0.59257	0.71332	0.54460	0.51932	0.48856	0.57168	15.370
43 1,3-Dichloropropane	0.75125	0.75215	0.66955	0.62334	0.59303	0.67787	10.727
44 2-Hexanone	0.33886	0.39223	0.32866	0.31790	0.33833	0.34319	8.366
45 Chlorodibromomethane	1.06100	1.13605	0.97840	1.29700	0.95213	1.08492	12.800
46 Ethylene dibromide	0.93238	0.94659	0.85119	0.83466	0.84763	0.88250	5.963
48 Chlorobenzene	1.05846	1.12090	0.99070	0.95020	0.93823	1.01170	7.613
49 1,1,1,2-Tetrachloroethane	0.69925	0.71003	0.62684	0.61273	0.59228	0.64323	8.189
50 Ethylbenzene	0.47410	0.50648	0.43183	0.40120	0.38257	0.43924	11.637
51 m-p-Xylenes	0.54958	0.58047	0.50468	0.48297	0.44716	0.51297	10.314
52 o-Xylene	0.56319	0.58759	0.49831	0.49511	0.46288	0.52262	10.107
53 Styrene	1.04941	1.05083	0.91395	0.89219	0.83608	0.94849	10.230
54 Bromoform	0.90378	0.95704	0.83659	1.12033	0.81871	0.92731	13.064
55 Isopropylbenzene	1.65081	1.75052	1.51557	1.52127	1.44607	1.57687	7.742
57 1,1,2,2-Tetrachloroethane	0.97859	0.96107	0.80551	0.86416	0.79620	0.88111	9.632
58 1,2,3-Trichloropropane	0.76453	0.79746	0.67354	0.68609	0.64956	0.71524	8.759
59 Bromobenzene	0.75251	0.76017	0.65163	0.63194	0.59072	0.67939	10.893
60 n-Propylbenzene	2.06159	2.23154	1.93093	1.84450	1.86178	2.00207	7.503
61 o-Chlorotoluene	1.49641	1.54596	1.36696	1.34331	1.21665	1.39384	9.377
62 1,3,5-Trimethylbenzene	1.45178	1.51668	1.32045	1.25631	1.19831	1.35631	9.368
63 p-Chlorotoluene	1.63401	1.77037	1.54375	1.50121	1.40931	1.57183	8.750
64 tert-Butylbenzene	1.50663	1.61833	1.40708	1.41104	1.31019	1.45066	8.043
65 1,2,4-Trimethylbenzene	1.50176	1.56211	1.40778	1.38972	1.32135	1.43654	6.632
sec-Butylbenzene	2.02584	2.15807	1.90417	1.87700	1.76232	1.94568	7.784
4-Isopropyltoluene	1.64878	1.76718	1.53752	1.50952	1.37801	1.56820	9.385

OHM Analytical Division

INITIAL CALIBRATION DATA

Start Cal Date : 19-JAN-96 13:12
End Cal Date : 19-JAN-96 15:39
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem/msa.i/a011996.b/011996_ambia.m
Cal Date : 24-Jan-1996 09:59 glenn
Curve Type : Average

	Compound	10 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	RRF	% RSD
68	1,3-Dichlorobenzene	1.14975	1.17056	1.02169	1.03260	0.93500	1.06193	9.192
69	1,4-Dichlorobenzene	1.06555	0.97315	1.03109	1.07364	1.01012	1.04071	4.515
70	n-Butylbenzene	1.68926	1.83060	1.53150	1.54179	1.36430	1.60159	10.823
71	1,2-Dichlorobenzene	1.12133	1.12534	0.99945	0.97815	0.87647	1.02015	10.297
72	1,2-Dibromo-3-chloropropane	0.28532	0.27974	0.24551	0.27356	0.28273	0.27380	5.809
73	1,2,4-Trichlorobenzene	1.04371	1.07272	0.96107	0.96509	0.88374	0.98547	7.531
74	Hexachlorobutadiene	0.82213	0.87835	0.75711	0.74965	0.66531	0.77671	10.304
75	Naphthalene	1.92002	1.61273	1.32277	1.54936	1.50220	1.58152	13.774
6	1,2,3-Trichlorobenzene	1.04040	1.05092	0.90493	0.94084	0.87237	0.96190	8.347
S 27	1,2-Dichloroethane-D4 (SURR)	0.47732	0.52379	0.45500	0.54437	0.35963	0.47234	15.281
S 38	Toluene-D8 (SURR)	1.17114	1.11363	1.05565	1.05730	0.98214	1.07817	6.507
S 56	Bromofluorobenzene (SURR)	1.04543	1.01401	0.88301	0.90517	0.84924	0.94057	9.002

OHM Analytical Division

INITIAL CALIBRATION DATA

Start Cal Date : 21-JAN-96 17:03
End Cal Date : 21-JAN-96 19:09
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem/msc.i/c012196.b/012196_ambic.m
Cal Date : 22-Jan-1996 02:36
Curve Type : Average

CLP-01C

Calibration File Names:
Level 1: /chem/msc.i/c012196.b/c7959.d
Level 2: /chem/msc.i/c012196.b/c7960.d
Level 3: /chem/msc.i/c012196.b/c7961.d
Level 4: /chem/msc.i/c012196.b/c7962.d
Level 5: /chem/msc.i/c012196.b/c7963.d

	Compound	10 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	RRF	% RSD
	Dichlorodifluoromethane	2.45271	1.99829	2.34246	2.36752	2.39095	2.31038	7.756
	Methyl chloride	1.47343	1.11876	1.28427	1.38584	1.43173	1.33881	10.587
3	Vinyl chloride	1.51509	1.23087	1.40356	1.44857	1.47931	1.41548	7.844
4	Methyl bromide	1.61205	1.17336	1.23336	1.13310	1.15411	1.27320	15.055
5	Chloroethane	0.98054	0.60568	0.53653	0.60654	0.60418	0.68669	24.002
6	Trichlorofluoromethane	3.04833	2.51391	2.83312	2.49656	1.74040	2.52646	19.645
7	Ethyl ether	1.45044	1.07339	1.10522	1.12372	1.04351	1.15926	14.288
8	Acrolein	1.35233	1.21703	1.13686	1.17969	1.20950	1.21908	6.634
9	1,1,2-Trichlorotrifluoroethan	2.74703	2.30485	2.72162	2.69589	2.49556	2.59299	7.302
10	1,1-Dichloroethylene	1.42387	1.08912	1.31183	1.31602	1.25804	1.28177	9.521
11	Acetone	0.85632	0.60809	0.52735	0.57575	0.57477	0.62846	20.780
12	Carbon disulfide	3.78842	3.03391	3.74502	3.80277	3.79486	3.63300	9.239
13	Methylene chloride	2.00341	1.43849	1.51021	1.45842	1.41114	1.56434	15.861
14	Acrylonitrile	0.61947	0.46015	0.47629	0.46502	0.47157	0.49850	13.622
15	1,2-Trans-dichloroethylene	1.66985	1.24480	1.43903	1.44700	1.41442	1.44302	10.486
16	Tert-Butyl Methyl Ether	4.63673	3.45414	3.52267	3.54734	3.51314	3.73480	13.531
17	1,1-Dichloroethane	3.89108	2.83866	3.18040	3.23071	3.12373	3.25291	11.919
18	1,2-cis-Dichloroethylene	1.75622	1.29313	1.50999	1.46378	1.44437	1.49350	11.241
19	2,2-Dichloropropane	2.23972	2.06214	2.41113	2.41738	2.33080	2.29223	6.433
20	Methyl ethyl ketone	0.04966	0.03938	0.03329	0.03808	0.04086	0.04126	11.693
21	Ethyl acetate	7.41560	5.68981	5.47057	5.54365	5.49623	5.92319	14.158
23	Chloroform	3.99921	2.93946	3.23753	3.23259	3.16730	3.31524	12.101
24	1,1,1-Trichloroethane	0.63617	0.55474	0.72627	0.65286	0.69378	0.65277	9.978
25	1,1-Dichloropropene	0.53606	0.49079	0.64335	0.53770	0.62616	0.57681	10.980
	Carbon tetrachloride	0.54062	0.45368	0.62059	0.57793	0.61449	0.56146	12.155
	Benzene	0.92377	0.79222	0.98852	0.93949	0.94891	0.91258	8.073
	2-Dichloroethane	3.17915	2.39398	2.50194	2.43086	2.39817	2.59082	12.830

OHM Analytical Division

INITIAL CALIBRATION DATA

Start Cal Date : 21-JAN-96 17:03
End Cal Date : 21-JAN-96 19:09
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem/msc.i/c012196.b/012196_ambic.m
Cal Date : 22-Jan-1996 02:36
Curve Type : Average

Compound	10 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	___ RRF	% RSD
31 Trichloroethylene	0.50653	0.39363	0.53010	0.43639	0.47342	0.46802	11.656
32 1,2-Dichloropropane	0.66422	0.52114	0.65276	0.57644	0.61126	0.60516	9.662
33 Dibromomethane	0.60635	0.48575	0.57152	0.51184	0.54199	0.54349	8.764
34 Dichlorobromomethane	1.07113	0.85131	1.07549	0.97212	1.04329	1.00268	9.394
35 2-Chloroethylvinyl ether	*****	*****	*****	*****	*****	*****	***** <-
36 cis-1,3-Dichloropropylene	0.75242	0.69203	0.79719	0.76245	0.84769	0.77036	7.462
37 Methyl-iso-butyl ketone	1.07242	0.83792	0.81257	0.79261	0.84373	0.87286	13.024
39 Toluene	1.53857	1.17755	1.33533	1.28115	1.26160	1.31884	10.258
40 trans-1,3-Dichloropropylene	0.65391	0.61442	0.76702	0.67871	0.75560	0.69393	9.477
41 1,1,2-Trichloroethane	0.53729	0.43744	0.50446	0.44263	0.48914	0.48219	8.766
42 Tetrachloroethylene	0.56938	0.46148	0.54916	0.51294	0.49676	0.51794	8.238
43 1,3-Dichloropropane	1.10467	0.84513	0.87294	0.83046	0.82109	0.89486	13.289
44 2-Hexanone	0.67180	0.55129	0.55484	0.54645	0.56433	0.58184	9.020
45 Chlorodibromomethane	0.81720	0.66205	0.79465	0.75859	0.83027	0.77255	8.736
46 Ethylene dibromide	0.96505	0.75614	0.80813	0.76586	0.77291	0.81362	10.680
48 Chlorobenzene	1.25705	0.96332	1.05209	1.00701	0.98074	1.05204	11.348
49 1,1,1,2-Tetrachloroethane	0.65460	0.49388	0.56798	0.53982	0.53317	0.55789	10.788
50 Ethylbenzene	0.56150	0.42511	0.49885	0.46946	0.45882	0.48275	10.629
51 m+p-Xylenes	0.68964	0.54644	0.61626	0.58061	0.56354	0.59930	9.465
52 o-Xylene	0.68901	0.51899	0.58591	0.57753	0.55409	0.58511	10.873
53 Styrene	1.11364	0.84693	0.99075	0.96033	0.93197	0.95872	10.027
54 Bromoform	0.65220	0.56834	0.66372	0.63050	0.69672	0.64231	7.440
55 Isopropylbenzene	1.79413	1.33105	1.63351	1.57582	1.52430	1.57196	10.715
57 1,1,2,2-Tetrachloroethane	1.17210	0.91966	0.94216	0.91255	0.90546	0.97039	11.707
58 1,2,3-Trichloropropane	1.05423	0.82589	0.81348	0.78076	0.75209	0.84529	14.233
59 Bromobenzene	0.72344	0.58905	0.62101	0.59573	0.57287	0.62042	9.594
60 n-Propylbenzene	2.33799	1.82551	2.17733	2.03455	2.01243	2.03956	9.115
61 o-Chlorotoluene	2.00728	1.45661	1.71749	1.52922	1.53213	1.66855	12.791
62 1,3,5-Trimethylbenzene	1.62216	1.23612	1.42704	1.36229	1.31833	1.39330	10.445
63 p-Chlorotoluene	2.22865	1.62212	1.83600	1.75274	1.70033	1.82797	12.973
64 tert-Butylbenzene	1.64839	1.36975	1.59044	1.50171	1.42177	1.50541	7.547
65 1,2,4-Trimethylbenzene	1.62507	1.23051	1.45777	1.37012	1.31888	1.40047	10.722
66 sec-Butylbenzene	2.06917	1.63507	2.04302	1.95298	1.87555	1.91516	9.101
4-Isopropyltoluene	1.71686	1.36975	1.59044	1.50171	1.42177	1.52011	9.084

OHM Analytical Division

INITIAL CALIBRATION DATA

Start Cal Date : 21-JAN-96 17:03
End Cal Date : 21-JAN-96 19:09
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem/msc.i/c012196.b/012196_ambic.m
Cal Date : 22-Jan-1996 02:36
Curve Type : Average

Compound	10 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	___ RRF	% RSD
68 1,3-Dichlorobenzene	1.14756	0.89920	0.94085	0.87711	0.85103	0.94315	12.609
69 1,4-Dichlorobenzene	1.38927	1.08457	1.17051	1.09123	1.03932	1.15498	12.054
70 n-Butylbenzene	2.01113	1.53744	1.88759	1.75017	1.69469	1.77620	10.224
71 1,2-Dichlorobenzene	1.19581	0.91257	0.99041	0.92478	0.90004	0.98472	12.495
72 1,2-Dibromo-3-chloropropane	0.33392	0.26064	0.28894	0.27894	0.28774	0.29003	9.315
73 1,2,4-Trichlorobenzene	1.14813	0.83111	0.90940	0.85967	0.85191	0.92004	14.206
74 Hexachlorobutadiene	0.73172	0.47222	0.54685	0.55155	0.56299	0.57307	16.691
75 Naphthalene	1.84081	1.47907	1.53155	1.45187	1.45874	1.55241	10.578
1,2,3-Trichlorobenzene	1.14100	0.82530	0.83229	0.82881	0.80971	0.89742	15.476
$ 27 1,2-Dichloroethane-D4 (SURR)	2.71537	1.88877	2.11731	2.04235	2.07053	2.16687	14.693
$ 38 Toluene-D8 (SURR)	1.33906	0.98717	1.19500	1.08803	1.11342	1.14454	11.501
$ 56 Bromofluorobenzene (SURR)	1.30189	0.94831	1.07493	1.00743	1.01302	1.06912	12.873

OHM Analytical Division

INITIAL CALIBRATION DATA

Start Cal Date : 21-JAN-96 20:13
End Cal Date : 21-JAN-96 22:20
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem/msc.i/c012196.b/012196_heatc.m
Cal Date : 22-Jan-1996 02:56
Curve Type : Average

CLP-OK

Calibration File Names:
Level 1: /chem/msc.i/c012196.b/c7965.d
Level 2: /chem/msc.i/c012196.b/c7966.d
Level 3: /chem/msc.i/c012196.b/c7967.d
Level 4: /chem/msc.i/c012196.b/c7968.d
Level 5: /chem/msc.i/c012196.b/c7969.d

	Compound	10 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	___ RRF	% RSD
1	Dichlorodifluoromethane	1.82220	2.24520	2.34936	2.24557	2.31319	2.19630	9.743
	Methyl chloride	1.27234	1.37190	1.46614	1.42826	1.48792	1.40531	6.147
3	Vinyl chloride	1.14597	1.35472	1.45144	1.42376	1.47946	1.37107	9.780
4	Methyl bromide	1.01568	1.06160	1.11068	1.01305	0.94010	1.02822	6.164
5	Chloroethane	0.53037	0.59915	0.60425	0.57786	0.51633	0.56559	7.093
6	Trichlorofluoromethane	2.11091	2.53322	2.06831	1.59296	1.53918	1.96892	20.856
7	Ethyl ether	1.14292	1.20760	1.21502	1.11142	0.45850	1.02711	31.232 <-
8	Acrolein	1.81309	1.78316	1.83633	1.69265	1.00065	1.62518	21.743
9	1,1,2-Trichlorotrifluoroethan	2.17890	2.50291	2.65612	2.54538	1.34079	2.24482	23.862
10	1,1-Dichloroethylene	0.99774	1.23756	1.28485	1.26340	0.77257	1.11123	19.962
11	Acetone	1.27819	1.19722	1.13114	1.03877	1.02829	1.13472	9.351
12	Carbon disulfide	2.77529	3.23924	3.55560	3.66247	3.51886	3.35029	10.668
13	Methylene chloride	1.55533	1.62345	1.47320	1.43019	1.43596	1.50363	5.557
14	Acrylonitrile	0.82076	0.74844	0.74347	0.69669	0.73746	0.74937	5.986
15	1,2-Trans-dichloroethylene	1.20794	1.36094	1.41528	1.39792	1.37578	1.35157	6.136
16	Tert-Butyl Methyl Ether	3.89383	4.03803	4.07580	3.94132	3.96454	3.98271	1.848
17	1,1-Dichloroethane	2.90521	3.11901	3.24517	3.06513	2.98561	3.06402	4.230
18	1,2-cis-Dichloroethylene	1.23521	1.42705	1.47591	1.40753	1.37495	1.38413	6.570
19	2,2-Dichloropropane	1.83959	1.96076	2.20277	2.03711	2.16156	2.05036	7.291
20	Methyl ethyl ketone	0.08909	0.06167	0.07453	0.05260	0.06635	0.06887	20.079
21	Ethyl acetate	10.51035	9.70670	9.80027	8.72969	9.32898	9.61520	6.800
23	Chloroform	2.94346	3.13857	3.26521	3.06967	3.09900	3.10318	3.750
24	1,1,1-Trichloroethane	0.63008	0.58772	0.73262	0.54647	0.68411	0.63620	11.665
25	1,1-Dichloropropene	0.53232	0.50878	0.65081	0.49155	0.57961	0.55262	11.599
26	Carbon tetrachloride	0.43416	0.44603	0.61291	0.47300	0.58867	0.51095	16.371
28	Benzene	0.87109	0.88055	0.99189	0.75574	0.90928	0.88171	9.637
	1,2-Dichloroethane	2.48571	2.84670	2.58391	2.43123	2.48453	2.56642	6.472

OHM Analytical Division

INITIAL CALIBRATION DATA

Start Cal Date : 21-JAN-96 20:13
End Cal Date : 21-JAN-96 22:20
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem/msc.i/c012196.b/012196_heatc.m
Cal Date : 22-Jan-1996 02:56
Curve Type : Average

Compound	10 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	RRF	% RSD
31 Trichloroethylene	0.58650	0.49599	0.52023	0.41077	0.43745	0.49019	14.171
32 1,2-Dichloropropane	0.55647	0.50534	0.67552	0.51433	0.60923	0.57218	12.393
33 Dibromomethane	0.57314	0.50226	0.63966	0.43761	0.57561	0.55566	11.109
34 Dichlorobromomethane	0.91073	0.82511	1.08072	0.85723	1.01294	0.93735	11.440
35 2-Chloroethylvinyl ether	*****	*****	*****	*****	*****	*****	***** <-
36 cis-1,3-Dichloropropylene	0.71791	0.62915	0.84748	0.67251	0.82069	0.73755	12.749
37 Methyl-iso-butyl ketone	1.36075	1.39253	1.44198	1.35752	1.27262	1.36509	4.529
39 Toluene	1.16417	1.20599	1.30177	1.23737	1.18967	1.21980	4.342
trans-1,3-Dichloropropylene	0.66530	0.54746	0.75974	0.51126	0.72168	0.66309	13.248
41 1,1,2-Trichloroethane	0.50352	0.44191	0.55920	0.42580	0.48427	0.48294	10.952
42 Tetrachloroethylene	0.44579	0.46961	0.53271	0.50240	0.47112	0.48433	6.959
43 1,3-Dichloropropane	0.88532	0.88424	0.93039	0.83031	0.81630	0.87941	4.611
44 2-Hexanone	1.05061	1.04328	1.14655	1.03264	0.95842	1.04630	6.409
45 Chlorodibromomethane	0.74360	0.68130	0.89070	0.65477	0.82660	0.76739	11.649
46 Ethylene dibromide	0.82029	0.85291	0.87842	0.85227	0.82360	0.84750	2.959
48 Chlorobenzene	0.95868	1.01258	1.03559	1.00538	0.94117	0.99088	3.979
49 1,1,1,2-Tetrachloroethane	0.48718	0.51813	0.55576	0.52373	0.50648	0.51925	4.925
50 Ethylbenzene	0.42497	0.44820	0.49137	0.46505	0.42639	0.45130	6.227
51 m+p-Xylenes	0.48841	0.56542	0.60102	0.56789	0.54293	0.55313	7.539
52 o-Xylene	0.52092	0.57186	0.58417	0.56132	0.53041	0.55374	4.890
53 Styrene	0.75826	0.91994	0.98478	0.96208	0.90409	0.90583	9.778
54 Bromoform	0.65404	0.61978	0.81714	0.64119	0.78487	0.70340	12.888
55 Isopropylbenzene	1.21760	1.45598	1.58412	1.52361	1.45411	1.44708	9.614
57 1,1,2,2-Tetrachloroethane	1.15304	1.19693	1.23761	1.15112	1.10119	1.16798	4.419
58 1,2,3-Trichloropropane	1.02412	1.08241	1.07267	0.97952	0.87538	1.00682	8.365
59 Bromobenzene	0.57457	0.61269	0.61147	0.58997	0.55719	0.58918	4.059
60 n-Propylbenzene	1.75420	1.99561	2.11194	2.02546	1.92463	1.96255	6.851
61 o-Chlorotoluene	1.28397	1.62948	1.68708	1.52625	1.04295	1.45395	19.229
62 1,3,5-Trimethylbenzene	1.15350	1.30548	1.40205	1.33934	1.29238	1.29865	7.051
63 p-Chlorotoluene	1.48263	1.76544	1.79129	1.72563	1.66749	1.68670	7.306
64 tert-Butylbenzene	1.23473	1.49132	1.53333	1.48259	1.39584	1.42766	8.330
65 1,2,4-Trimethylbenzene	1.19879	1.33913	1.42405	1.36277	1.29238	1.32343	6.369
66 sec-Butylbenzene	1.41062	1.84183	1.99302	1.92557	1.89610	1.81463	12.828
67 4-Isopropyltoluene	1.25392	1.49132	1.53333	1.48259	1.39584	1.43150	7.768

OHM Analytical Division

INITIAL CALIBRATION DATA

Start Cal Date : 21-JAN-96 20:13
End Cal Date : 21-JAN-96 22:20
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem/msc.i/c012196.b/012196_heatc.m
Cal Date : 22-Jan-1996 02:56
Curve Type : Average

	Compound	10 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	___ RRF	% RSD
	68 1,3-Dichlorobenzene	0.92207	0.95526	0.95398	0.90159	0.74610	0.89580	9.676
	69 1,4-Dichlorobenzene	1.03486	1.14936	1.15201	1.07402	1.08361	1.09877	4.623
	70 n-Butylbenzene	1.43084	1.73488	1.80053	1.75631	1.62339	1.67120	8.970
	71 1,2-Dichlorobenzene	0.91250	1.02115	0.97027	0.94523	0.87022	0.94387	6.058
	72 1,2-Dibromo-3-chloropropane	0.47096	0.48588	0.49415	0.45951	0.44957	0.47201	3.882
	73 1,2,4-Trichlorobenzene	0.81117	1.01324	0.94390	0.89343	0.80518	0.89338	9.926
	74 Hexachlorobutadiene	0.52137	0.59148	0.55448	0.57907	0.52926	0.55513	5.481
	75 Naphthalene	1.79975	2.00217	1.93257	1.82853	1.71584	1.85577	6.072
	1,2,3-Trichlorobenzene	0.83372	1.01989	0.91077	0.86629	0.79840	0.88581	9.668
S	27 1,2-Dichloroethane-D4 (SURR)	2.77003	2.32251	2.16443	1.99315	2.13505	2.27805	13.092
S	33 Toluene-D8 (SURR)	1.28031	1.02952	1.17934	1.05863	1.04510	1.11863	9.683
S	56 Bromofluorobenzene (SURR)	1.23867	1.01794	0.99947	0.90783	0.94534	1.02185	12.607

Data File: /chem/msc.i/c012296.b/c7973.d
Report Date: 22-Jan-1996 03:09

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msc.i
Lab File ID: c7973.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 22-JAN-96 00:26
Init. Calibration Date(s): JAN/21/96 JAN/21/96
Init. Calibration Times: 17:03 19:09
Method File: /chem/msc.i/c012296.b/012196_ambic.m

CLP-01c

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D	
	1 Dichlorodifluoromethane	2.310	2.284	0.100	1.1	30.0	
	2 Methyl chloride	1.339	1.368	0.300	2.2	30.0	
	3 Vinyl chloride	1.415	1.307	0.100	7.6	20.0	
	4 Methyl bromide	1.273	0.961	0.100	24.5	30.0	
	5 Chloroethane	0.687	0.597	0.100	13.0	30.0	
	6 Trichlorofluoromethane	2.526	2.565	0.100	1.5	30.0	
	7 Ethyl ether	1.159	1.066	0.100	8.1	30.0	
	8 Acrolein	1.219	1.115	0.100	8.6	30.0	
	9 1,1,2-Trichlorotrifluoroetha	2.593	2.544	0.100	1.9	30.0	
	10 1,1-Dichloroethylene	1.282	1.224	0.100	4.5	20.0	
	11 Acetone	0.628	0.549	0.100	12.6	30.0	
	12 Carbon disulfide	3.633	3.380	0.100	7.0	30.0	
	13 Methylene chloride	1.564	1.529	0.100	2.3	30.0	
	14 Acrylonitrile	0.498	0.457	0.100	8.4	30.0	
	15 1,2-Trans-dichloroethylene	1.443	1.358	0.100	5.9	30.0	
	16 Tert-Butyl Methyl Ether	3.735	3.409	0.100	8.7	30.0	
	17 1,1-Dichloroethane	3.253	3.123	0.300	4.0	30.0	
	18 1,2-cis-Dichloroethylene	1.493	1.475	0.100	1.2	30.0	
	19 2,2-Dichloropropane	2.292	2.020	0.100	11.9	30.0	
	20 Methyl ethyl ketone	0.041	0.044	0.010	5.5	30.0	
	21 Ethyl acetate	5.923	5.494	0.100	7.3	30.0	
	23 Chloroform	3.315	3.153	0.200	4.9	20.0	
	24 1,1,1-Trichloroethane	0.653	0.708	0.100	8.4	30.0	
	25 1,1-Dichloropropene	0.577	0.625	0.100	8.3	30.0	
	26 Carbon tetrachloride	0.561	0.605	0.100	7.8	30.0	
$	27 1,2-Dichloroethane-D4 (SURR)	2.167	1.989	0.100	8.2	30.0	
	28 Benzene	0.913	0.961	0.500	5.3	30.0	
	29 1,2-Dichloroethane	2.591	2.451	0.100	5.4	30.0	
	31 Trichloroethylene	0.468	0.505	0.300	7.9	30.0	
	32 1,2-Dichloropropane	0.605	0.654	0.100	8.1	20.0	
	33 Dibromomethane	0.543	0.591	0.100	8.7	30.0	
	34 Dichlorobromomethane	1.003	1.061	0.200	5.8	30.0	
	35 2-Chloroethylvinyl ether	****	****	0.100	****	30.0	<-
	36 cis-1,3-Dichloropropylene	0.770	0.870	0.200	12.9	30.0	
	37 Methyl-iso-butyl ketone	0.873	0.836	0.100	4.3	30.0	
$	38 Toluene-D8 (SURR)	1.145	1.176	0.100	2.7	30.0	
	39 Toluene	1.319	1.354	0.400	2.6	20.0	
	40 trans-1,3-Dichloropropylene	0.694	0.719	0.100	3.6	30.0	
	41 1,1,2-Trichloroethane	0.482	0.548	0.100	13.7	30.0	
	42 Tetrachloroethylene	0.518	0.512	0.200	1.1	30.0	

Data File: /chem/msc.i/c012296.b/c7973.d
Report Date: 22-Jan-1996 03:09

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msc.i
Lab File ID: c7973.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 22-JAN-96 00:26
Init. Calibration Date(s): JAN/21/96 JAN/21/96
Init. Calibration Times: 17:03 19:09
Method File: /chem/msc.i/c012296.b/012196_ambic.m

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
	43 1,3-Dichloropropane	0.895	0.941	0.100	5.2	30.0
	44 2-Hexanone	0.582	0.548	0.100	5.9	30.0
	45 Chlorodibromomethane	0.773	0.901	0.100	16.6	30.0
	46 Ethylene dibromide	0.814	0.824	0.100	1.3	30.0
	48 Chlorobenzene	1.052	1.069	0.500	1.7	30.0
	49 1,1,1,2-Tetrachloroethane	0.558	0.559	0.100	0.3	30.0
	50 Ethylbenzene	0.483	0.504	0.100	4.4	20.0
	51 m+p-Xylenes	0.599	0.617	0.300	3.0	30.0
	52 o-Xylene	0.585	0.597	0.300	2.0	30.0
	53 Styrene	0.969	0.989	0.300	2.1	30.0
	54 Bromoform	0.642	0.708	0.100	10.2	30.0
	55 Isopropylbenzene	1.572	1.695	0.100	7.8	30.0
$	56 Bromofluorobenzene (SURR)	1.069	1.062	0.200	0.7	30.0
	57 1,1,2,2-Tetrachloroethane	0.970	1.013	0.300	4.4	30.0
	58 1,2,3-Trichloropropane	0.845	0.862	0.100	2.0	30.0
	59 Bromobenzene	0.620	0.610	0.100	1.7	30.0
	60 n-Propylbenzene	2.090	2.124	0.100	1.7	30.0
	61 o-Chlorotoluene	1.669	1.701	0.100	1.9	30.0
	62 1,3,5-Trimethylbenzene	1.393	1.449	0.100	4.0	30.0
	63 p-Chlorotoluene	1.828	1.866	0.100	2.1	30.0
	64 tert-Butylbenzene	1.506	1.573	0.100	4.4	30.0
	65 1,2,4-Trimethylbenzene	1.400	1.449	0.100	3.5	30.0
	66 sec-Butylbenzene	1.915	2.025	0.100	5.8	30.0
	67 4-Isopropyltoluene	1.520	1.573	0.100	3.5	30.0
	68 1,3-Dichlorobenzene	0.943	0.923	0.100	2.2	30.0
	69 1,4-Dichlorobenzene	1.155	1.138	0.100	1.5	30.0
	70 n-Butylbenzene	1.776	1.774	0.100	0.1	30.0
	71 1,2-Dichlorobenzene	0.985	0.965	0.100	2.0	30.0
	72 1,2-Dibromo-3-chloropropane	0.290	0.304	0.100	4.8	30.0
	73 1,2,4-Trichlorobenzene	0.920	0.854	0.100	7.2	30.0
	74 Hexachlorobutadiene	0.573	0.549	0.100	4.3	30.0
	75 Naphthalene	1.552	1.553	0.100	0.0	30.0
	76 1,2,3-Trichlorobenzene	0.897	0.827	0.100	7.8	30.0

Data File: /chem/msc.i/c012296.b/c7974.d
Report Date: 22-Jan-1996 03:14

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msc.i
Lab File ID: c7974.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 22-JAN-96 00:58
Init. Calibration Date(s): JAN/21/96 JAN/21/96
Init. Calibration Times: 20:13 22:20
Method File: /chem/msc.i/c012296.b/012196_heatc.m

CLP-01

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D	
	1 Dichlorodifluoromethane	2.196	2.270	0.100	3.4	30.0	
	2 Methyl chloride	1.405	1.403	0.300	0.2	30.0	
	3 Vinyl chloride	1.371	1.366	0.100	0.4	20.0	
	4 Methyl bromide	1.028	0.907	0.100	11.8	30.0	
	5 Chloroethane	0.566	0.532	0.100	6.0	30.0	
	6 Trichlorofluoromethane	1.969	1.829	0.100	7.1	30.0	
	7 Ethyl ether	1.027	1.175	0.100	14.4	30.0	
	8 Acrolein	1.625	1.806	0.100	11.1	30.0	
	9 1,1,2-Trichlorotrifluoroetha	2.245	2.634	0.100	17.3	30.0	
	10 1,1-Dichloroethylene	1.111	1.257	0.100	13.1	20.0	
	11 Acetone	1.135	1.137	0.100	0.2	30.0	
	12 Carbon disulfide	3.350	3.370	0.100	0.6	30.0	
	13 Methylene chloride	1.504	1.511	0.100	0.5	30.0	
	14 Acrylonitrile	0.749	0.739	0.100	1.3	30.0	
	15 1,2-Trans-dichloroethylene	1.352	1.420	0.100	5.1	30.0	
	16 Tert-Butyl Methyl Ether	3.983	3.927	0.100	1.4	30.0	
	17 1,1-Dichloroethane	3.064	3.203	0.300	4.5	30.0	
	18 1,2-cis-Dichloroethylene	1.384	1.511	0.100	9.1	30.0	
	19 2,2-Dichloropropane	2.050	2.021	0.100	1.4	30.0	
	20 Methyl ethyl ketone	0.069	0.076	0.010	10.7	30.0	
	21 Ethyl acetate	9.615	9.652	0.100	0.4	30.0	
	23 Chloroform	3.103	3.266	0.200	5.2	20.0	
	24 1,1,1-Trichloroethane	0.636	0.651	0.100	2.3	30.0	
	25 1,1-Dichloropropene	0.553	0.584	0.100	5.7	30.0	
	26 Carbon tetrachloride	0.511	0.563	0.100	10.2	30.0	
$	27 1,2-Dichloroethane-D4 (SURR)	2.278	2.099	0.100	7.8	30.0	
	28 Benzene	0.882	0.880	0.500	0.2	30.0	
	29 1,2-Dichloroethane	2.566	2.592	0.100	1.0	30.0	
	31 Trichloroethylene	0.490	0.469	0.300	4.2	30.0	
	32 1,2-Dichloropropane	0.572	0.592	0.100	3.4	20.0	
	33 Dibromomethane	0.556	0.566	0.100	1.9	30.0	
	34 Dichlorobromomethane	0.937	0.935	0.200	0.2	30.0	
	35 2-Chloroethylvinyl ether	****	****	0.100	****	30.0	<-
	36 cis-1,3-Dichloropropylene	0.738	0.746	0.200	1.1	30.0	
	37 Methyl-iso-butyl ketone	1.365	1.482	0.100	8.5	30.0	
$	38 Toluene-D8 (SURR)	1.119	1.131	0.100	1.1	30.0	
	39 Toluene	1.220	1.324	0.400	8.5	20.0	
	40 trans-1,3-Dichloropropylene	0.663	0.641	0.100	3.4	30.0	
	41 1,1,2-Trichloroethane	0.483	0.509	0.100	5.3	30.0	
	42 Tetrachloroethylene	0.484	0.514	0.200	6.2	30.0	

Data File: /chem/msc.i/c012296.b/c7974.d
Report Date: 22-Jan-1996 03:14

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msc.i
Lab File ID: c7974.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 22-JAN-96 00:58
Init. Calibration Date(s): JAN/21/96 JAN/21/96
Init. Calibration Times: 20:13 22:20
Method File: /chem/msc.i/c012296.b/012196_heatc.m

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
	43 1,3-Dichloropropane	0.879	0.974	0.100	10.7	30.0
	44 2-Hexanone	1.046	1.173	0.100	12.1	30.0
	45 Chlorodibromomethane	0.767	0.811	0.100	5.7	30.0
	46 Ethylene dibromide	0.847	0.909	0.100	7.3	30.0
	48 Chlorobenzene	0.991	1.082	0.500	9.2	30.0
	49 1,1,1,2-Tetrachloroethane	0.519	0.562	0.100	8.3	30.0
	50 Ethylbenzene	0.451	0.501	0.100	11.0	20.0
	51 m+p-Xylenes	0.553	0.623	0.300	12.6	30.0
	52 o-Xylene	0.554	0.596	0.300	7.6	30.0
	53 Styrene	0.906	1.010	0.300	11.5	30.0
	54 Bromoform	0.703	0.726	0.100	3.2	30.0
	55 Isopropylbenzene	1.447	1.691	0.100	16.9	30.0
S	56 Bromofluorobenzene (SURR)	1.022	1.044	0.200	2.2	30.0
	57 1,1,2,2-Tetrachloroethane	1.168	1.261	0.300	8.0	30.0
	58 1,2,3-Trichloropropane	1.007	1.108	0.100	10.1	30.0
	59 Bromobenzene	0.589	0.621	0.100	5.4	30.0
	60 n-Propylbenzene	1.963	2.173	0.100	10.7	30.0
	61 o-Chlorotoluene	1.454	1.696	0.100	16.6	30.0
	62 1,3,5-Trimethylbenzene	1.299	1.455	0.100	12.0	30.0
	63 p-Chlorotoluene	1.687	1.871	0.100	10.9	30.0
	64 tert-Butylbenzene	1.428	1.625	0.100	13.8	30.0
	65 1,2,4-Trimethylbenzene	1.323	1.455	0.100	9.9	30.0
	66 sec-Butylbenzene	1.815	1.976	0.100	8.9	30.0
	67 4-Isopropyltoluene	1.431	1.625	0.100	13.5	30.0
	68 1,3-Dichlorobenzene	0.896	0.967	0.100	7.9	30.0
	69 1,4-Dichlorobenzene	1.099	1.177	0.100	7.1	30.0
	70 n-Butylbenzene	1.671	1.758	0.100	5.2	30.0
	71 1,2-Dichlorobenzene	0.944	0.997	0.100	5.6	30.0
	72 1,2-Dibromo-3-chloropropane	0.472	0.498	0.100	5.5	30.0
	73 1,2,4-Trichlorobenzene	0.893	0.906	0.100	1.4	30.0
	74 Hexachlorobutadiene	0.555	0.561	0.100	1.1	30.0
	75 Naphthalene	1.856	1.971	0.100	6.2	30.0
	76 1,2,3-Trichlorobenzene	0.886	0.900	0.100	1.6	30.0

Data File: /chem/msa.i/a012396.b/a5811.d
Report Date: 24-Jan-1996 10:48

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msa.i
Lab File ID: a5811.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 23-JAN-96 06:51
Init. Calibration Date(s): JAN/19/96 JAN/19/96
Init. Calibration Times: 13:12 15:39
Method File: /chem/msa.i/a012396.b/011996_ambia.m

CLP-OK

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D	
	1 Dichlorodifluoromethane	2.501	2.115	0.100	15.4	30.0	
	2 Methyl chloride	0.827	0.752	0.300	9.2	30.0	
	3 Vinyl chloride	0.895	0.848	0.100	5.2	20.0	
	4 Methyl bromide	0.710	0.586	0.100	17.4	30.0	
	5 Chloroethane	0.267	0.227	0.100	14.7	30.0	
	6 Trichlorofluoromethane	3.217	3.152	0.100	2.0	30.0	
	7 Ethyl ether	0.589	0.635	0.100	7.9	30.0	
	8 Acrolein	0.689	0.731	0.100	6.1	30.0	
	9 1,1,2-Trichlorotrifluoroetha	2.537	2.505	0.100	1.3	30.0	
	10 1,1-Dichloroethylene	1.072	1.046	0.100	2.4	20.0	
	11 Acetone	0.341	0.291	0.100	14.6	30.0	
	12 Carbon disulfide	3.120	2.896	0.100	7.2	30.0	
	13 Methylene chloride	1.355	1.217	0.100	10.2	30.0	
	14 Acrylonitrile	0.272	0.285	0.100	4.6	30.0	
	15 1,2-Trans-dichloroethylene	1.205	1.240	0.100	2.9	30.0	
	16 Tert-Butyl Methyl Ether	2.656	2.729	0.100	2.7	30.0	
	17 1,1-Dichloroethane	2.053	2.169	0.300	5.1	30.0	
	18 1,2-cis-Dichloroethylene	1.172	1.207	0.100	3.0	30.0	
	19 2,2-Dichloropropane	1.630	1.703	0.100	4.5	30.0	
	20 Methyl ethyl ketone	0.032	0.026	0.010	16.7	30.0	
	21 Ethyl acetate	2.646	2.664	0.100	0.7	30.0	
	23 Chloroform	2.719	2.721	0.200	0.1	20.0	
	24 1,1,1-Trichloroethane	0.690	0.618	0.100	10.5	30.0	
	25 1,1-Dichloropropene	0.480	0.386	0.100	19.6	30.0	
	26 Carbon tetrachloride	0.786	0.650	0.100	17.2	30.0	
S	27 1,2-Dichloroethane-D4 (SURR)	0.472	0.364	0.100	22.9	30.0	— see C 5812
	28 Benzene	0.792	0.554	0.500	30.1	30.0	<- < 4/02
	29 1,2-Dichloroethane	1.993	1.578	0.100	20.8	30.0	
	31 Trichloroethylene	0.520	0.499	0.300	4.1	30.0	
	32 1,2-Dichloropropane	0.416	0.401	0.100	3.5	20.0	
	33 Dibromomethane	0.606	0.563	0.100	7.1	30.0	
	34 Dichlorobromomethane	1.026	0.934	0.200	8.9	30.0	
	35 2-Chloroethylvinyl ether	****	****	0.100	****	30.0	<-
	36 cis-1,3-Dichloropropylene	0.674	0.645	0.200	4.2	30.0	
	37 Methyl-iso-butyl ketone	0.477	0.472	0.100	1.0	30.0	
S	38 Toluene-D8 (SURR)	1.078	1.047	0.100	2.9	30.0	- see C 5812
	39 Toluene	1.109	1.106	0.400	0.3	20.0	
	40 trans-1,3-Dichloropropylene	0.608	0.571	0.100	6.0	30.0	
	41 1,1,2-Trichloroethane	0.458	0.448	0.100	2.2	30.0	
	42 Tetrachloroethylene	0.572	0.541	0.200	5.3	30.0	

Data File: /chem/msa.i/a012396.b/a5811.d
Report Date: 24-Jan-1996 10:48

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msa.i
Lab File ID: a5811.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 23-JAN-96 06:51
Init. Calibration Date(s): JAN/19/96 JAN/19/96
Init. Calibration Times: 13:12 15:39
Method File: /chem/msa.i/a012396.b/011996_ambia.m

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D	
	43 1,3-Dichloropropane	0.678	0.678	0.100	0.0	30.0	
	44 2-Hexanone	0.343	0.350	0.100	1.9	30.0	
	45 Chlorodibromomethane	1.085	1.063	0.100	2.0	30.0	
	46 Ethylene dibromide	0.882	0.864	0.100	2.1	30.0	
	48 Chlorobenzene	1.012	0.990	0.500	2.2	30.0	
	49 1,1,1,2-Tetrachloroethane	0.648	0.625	0.100	3.5	30.0	
	50 Ethylbenzene	0.439	0.429	0.100	2.3	20.0	
	51 m-p-Xylenes	0.513	0.504	0.300	1.8	30.0	
	52 o-Xylene	0.523	0.496	0.300	5.2	30.0	
	53 Styrene	0.948	0.904	0.300	4.7	30.0	
	54 Bromoform	0.927	0.893	0.100	3.7	30.0	
	55 Isopropylbenzene	1.577	1.583	0.100	0.4	30.0	
\$	56 Bromofluorobenzene (SURR)	0.941	0.875	0.200	6.9	30.0	- see C5812
	57 1,1,2,2-Tetrachloroethane	0.831	0.923	0.300	4.8	30.0	
	58 1,2,3-Trichloropropane	0.715	0.702	0.100	1.9	30.0	
	59 Bromobenzene	0.679	0.662	0.100	2.6	30.0	
	60 n-Propylbenzene	2.002	1.945	0.100	2.9	30.0	
	61 o-Chlorotoluene	1.394	1.352	0.100	3.0	30.0	
	62 1,3,5-Trimethylbenzene	1.357	1.331	0.100	1.9	30.0	
	63 p-Chlorotoluene	1.572	1.515	0.100	3.6	30.0	
	64 tert-Butylbenzene	1.451	1.428	0.100	1.6	30.0	
	65 1,2,4-Trimethylbenzene	1.437	1.369	0.100	4.7	30.0	
	66 sec-Butylbenzene	1.946	1.906	0.100	2.0	30.0	
	67 4-Isopropyltoluene	1.568	1.580	0.100	0.7	30.0	
	68 1,3-Dichlorobenzene	1.062	1.043	0.100	1.7	30.0	
	69 1,4-Dichlorobenzene	1.041	1.093	0.100	5.1	30.0	
	70 n-Butylbenzene	1.602	1.575	0.100	1.6	30.0	
	71 1,2-Dichlorobenzene	1.020	1.001	0.100	1.9	30.0	
	72 1,2-Dibromo-3-chloropropane	0.274	0.239	0.100	5.4	30.0	
	73 1,2,4-Trichlorobenzene	0.935	0.954	0.100	3.2	30.0	
	74 Hexachlorobutadiene	0.777	0.820	0.100	5.6	30.0	
	75 Naphthalene	1.582	1.279	0.100	19.1	30.0	
	76 1,2,3-Trichlorobenzene	0.962	0.914	0.100	4.9	30.0	

Data File: /chem/msa.i/a012396.b/a5812.d
Report Date: 24-Jan-1996 11:06

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msa.i
Lab File ID: a5812.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 23-JAN-96 07:25
Init. Calibration Date(s): JAN/19/96 JAN/19/96
Init. Calibration Times: 13:12 15:39
Method File: /chem/msa.i/a012396.b/011996_ambia.m

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
$ 27 1,2-Dichloroethane-D4 (SURR)	0.472	0.455	0.100	3.6	30.0
$ 38 Toluene-D8 (SURR)	1.078	1.051	0.100	2.5	30.0
$ 56 Bromofluorobenzene (SURR)	0.941	0.823	0.200	12.5	30.0

C 5-912

Data File: /chem/msa.i/a011996.b/a5782.d

Date : 19-JAN-96 11:55

Client ID:

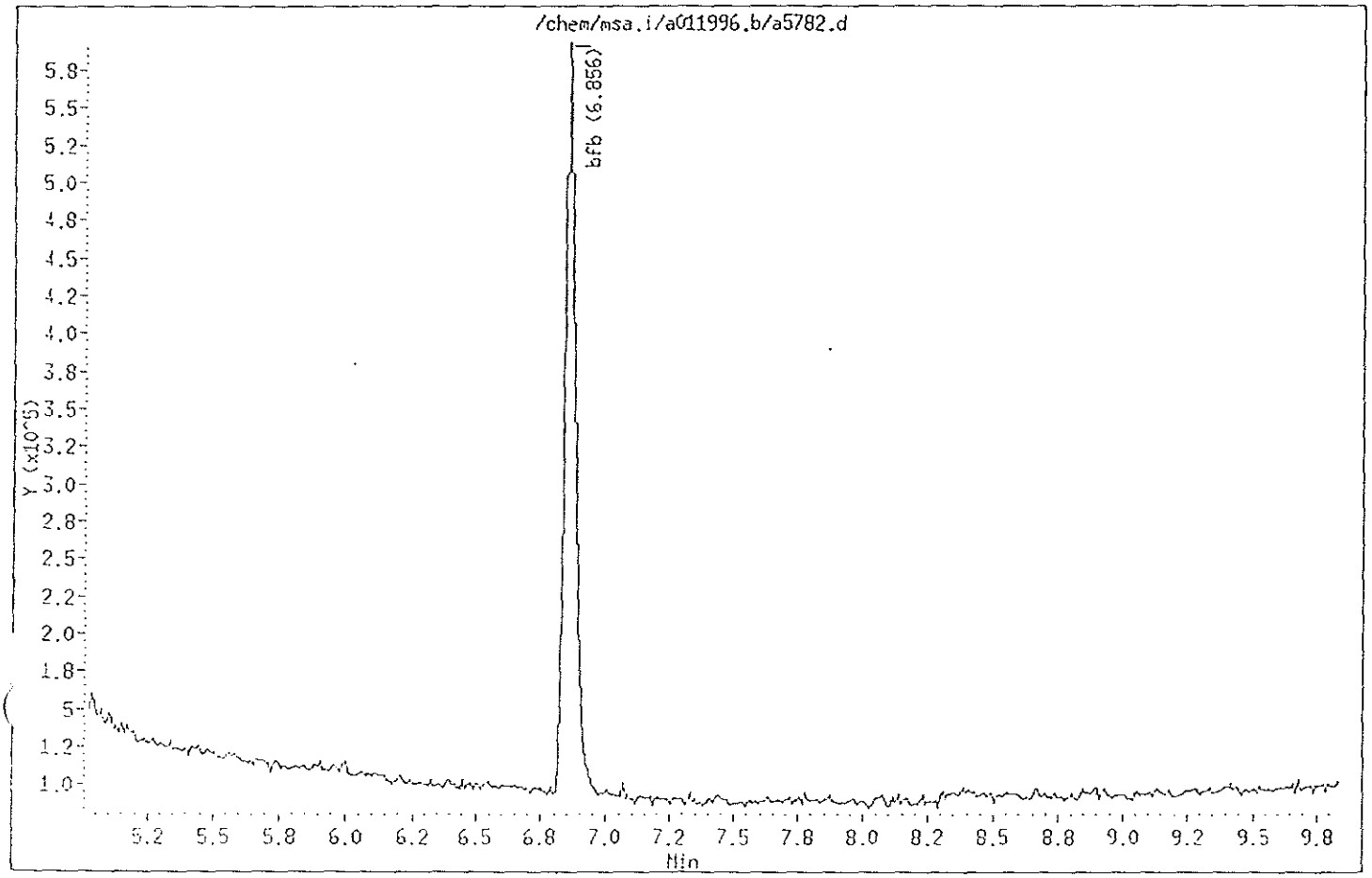
Instrument: msa.i

Sample Info: 50ng bfb direct inj

Operator: jk

Column phase: J&W DB-624

Column diameter: 0.53



Data File: /chem/msa.i/a011996.b/a5782.d

Date : 19-JAN-96 11:55

Client ID:

Instrument: msa.i

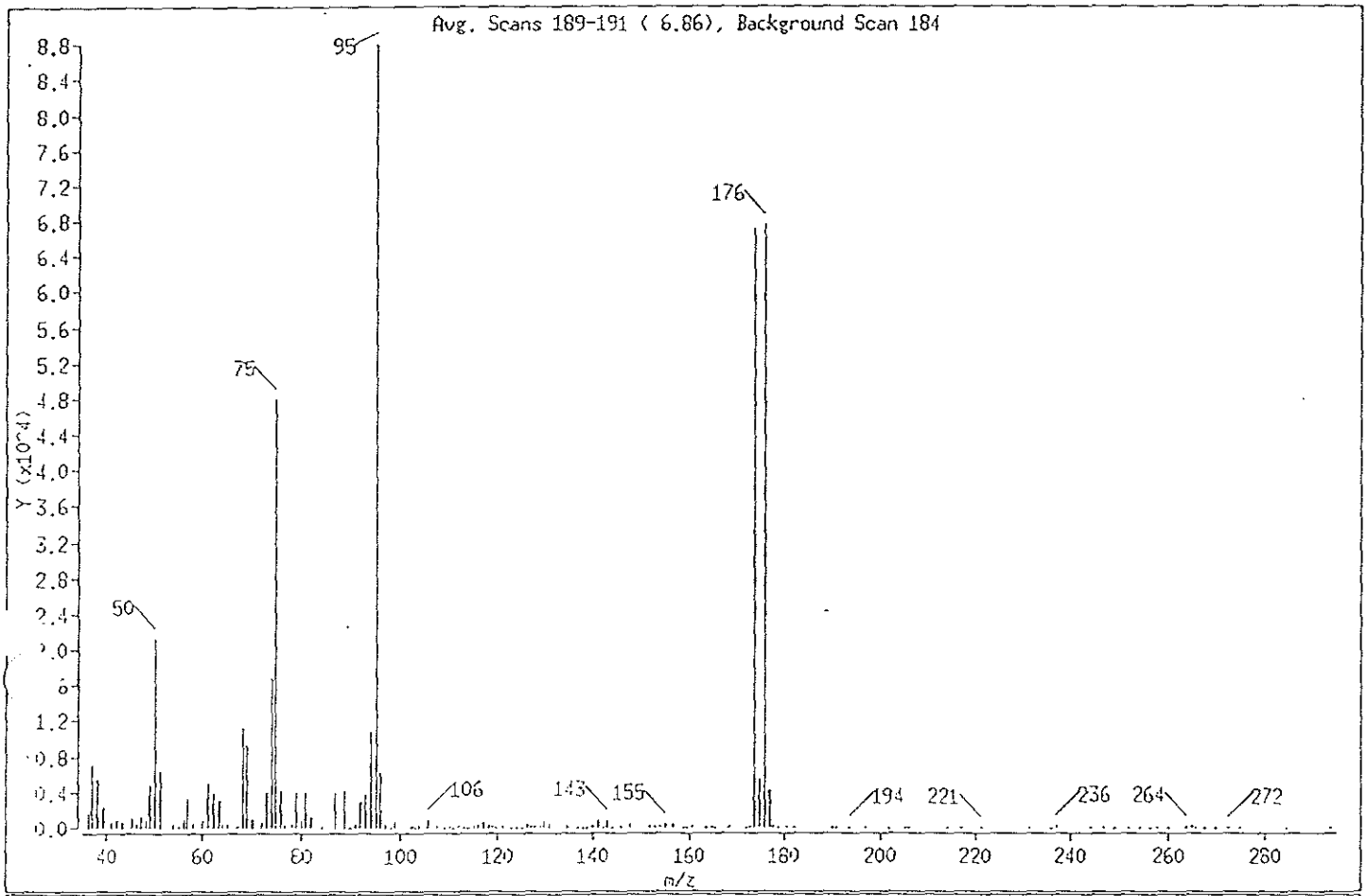
Sample Info: 50ng bfb direct inj

Operator: jk

Column phase: J&W DB-624

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.10
75	30.00 - 60.00% of mass 95	54.44
96	5.00 - 9.00% of mass 95	7.20
173	Less than 2.00% of mass 174	0.17 (0.22)
174	50.00 - 100.00% of mass 95	76.30
175	5.00 - 9.00% of mass 174	6.13 (8.04)
176	95.00 - 101.00% of mass 174	76.71 (100.54)
177	5.00 - 9.00% of mass 176	4.83 (6.29)

Data File: /chem/msa.i/a011996.b/a5782.d

Date : 19-JAN-96 11:55

Client ID:

Instrument: msa.i

Sample Info: 50ng bfb direct inj

Operator: jk

Column phase: J&W DB-624

Column diameter: 0.53

Data File: a5782.d
Spectrum : Avg. Scans 189-191 (6.86), Background Scan 184
Largest m/z: 95.05
Number of peaks: 147

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.05	1594	79.95	879	124.00	65	176.90	4249
37.05	7140	80.95	4061	125.10	101	178.00	184
38.05	5398	81.85	1170	126.30	328	178.90	81
39.05	2243	84.15	243	127.00	208	181.00	206
41.05	536	86.95	3925	127.90	308	182.30	50
42.05	770	88.65	4087	129.00	273	190.10	52
43.15	534	88.85	192	129.80	555	191.00	1
45.05	988	89.75	50	130.90	511	193.70	89
46.15	369	91.05	379	134.80	187	196.90	58
46.95	1294	91.95	2940	136.90	85	201.80	84
48.10	828	93.05	3821	138.00	60	205.30	50
49.00	4708	94.05	10896	138.90	40	206.15	54
50.00	21216	95.05	88032	139.90	140	213.95	61
51.10	6482	95.95	6338	140.90	758	216.85	58
54.00	409	97.05	370	142.20	73	221.15	97
55.00	255	98.15	111	142.95	783	231.05	70
56.00	1050	99.05	595	143.85	58	235.65	53
57.00	3354	102.35	145	145.95	248	236.65	113
58.10	319	102.95	61	147.95	352	244.00	56
60.00	882	103.95	117	151.95	232	246.40	56
61.00	5002	105.15	26	152.95	153	248.70	51
62.00	4049	105.85	852	154.25	181	251.90	64
63.10	3161	107.65	255	155.45	437	254.20	55
64.00	350	109.05	55	156.95	315	256.40	51
65.00	392	110.15	156	158.95	68	257.90	77
67.00	159	111.00	101	159.85	52	260.20	50
68.00	11182	112.10	250	160.95	296	264.00	230
69.00	9443	113.10	4	164.05	5	264.90	157
70.00	1071	113.90	80	165.05	145	265.70	51
72.00	693	115.10	168	165.95	81	267.60	67
73.00	3995	116.00	385	168.25	75	269.85	54
74.00	16840	116.90	681	168.95	236	272.65	75
75.00	47928	118.00	465	172.25	62	274.65	53
76.00	4076	118.90	304	172.85	148	284.55	54
76.90	368	119.70	54	173.85	67176	293.45	52

Data File: /chem/msa.i/a011996.b/a5782.d

Date : 19-JAN-96 11:55

Client ID:

Instrument: msa.i

Sample Info: 50ng bfb direct inj

Operator: jk

Column phase: J&W DB-624

Column diameter: 0.53

Data File: a5782.d
Spectrum : Avg. Scans 189-191 (6.86), Background Scan 184
Largest m/z: 95.05
Number of peaks: 147

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.10	504	121.10	125	175.00	5401	294.05	53
78.90	4012	122.90	63	175.90	67536		

Data File: /chem/msc.i/c012196.b/c7957.d

Date : 21-JAN-96 16:05

Client ID:

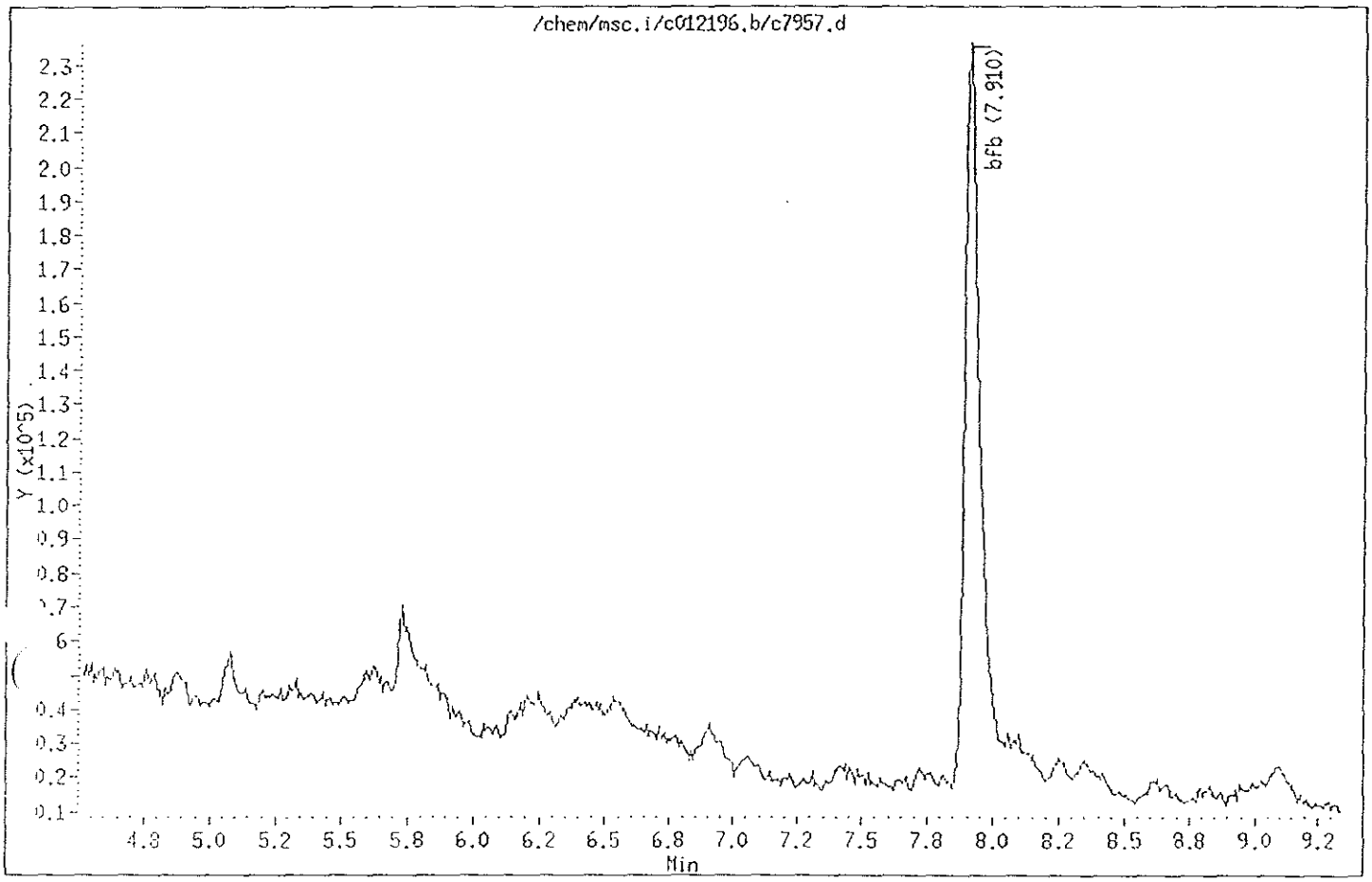
Instrument: msc.i

Sample Info: bfb tune

Operator: jk

Column phase: J&W DB-624

Column diameter: 0.53



Data File: /chem/msc.i/c012196.b/c7957.d

Date : 21-JAN-96 16:05

Client ID:

Instrument: msc.i

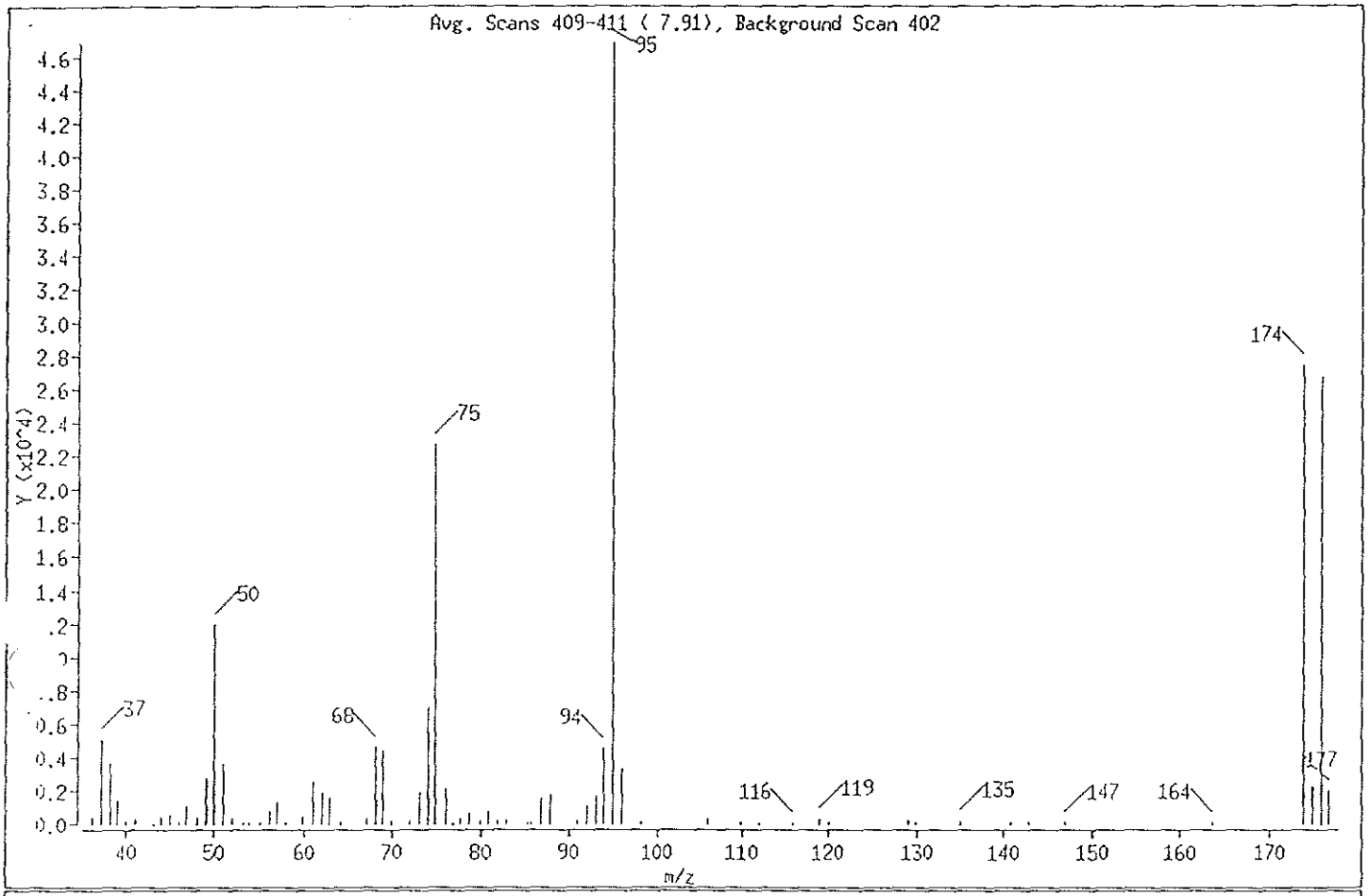
Sample Info: bfb tune

Operator: jk

Column phase: J&W DB-624

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	25.43
75	30.00 - 60.00% of mass 95	48.58
96	5.00 - 9.00% of mass 95	7.03
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	58.58
175	5.00 - 9.00% of mass 174	4.69 (8.01)
176	95.00 - 101.00% of mass 174	57.28 (97.78)
177	5.00 - 9.00% of mass 176	4.15 (7.24)

Data File: /chem/msc.i/c012196.b/c7957.d

Date : 21-JAN-96 16:05

Client ID:

Instrument: msc.i

Sample Info: bfb tune

Operator: jk

Column phase: J&W DB-624

Column diameter: 0.53

Data File: c7957.d
Spectrum : Avg. Scans 409-411 (7.91), Background Scan 402
Largest m/z: 95.00
Number of peaks: 71

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	447	55.05	106	77.00	45	106.05	297
37.10	5063	56.05	747	77.90	318	109.75	76
38.10	3664	56.95	1343	78.90	691	111.85	70
39.10	1493	58.05	84	80.00	185	115.85	104
40.00	219	59.95	489	80.90	799	118.95	324
41.00	313	61.05	2572	81.90	268	119.95	78
43.05	35	62.05	1876	83.00	192	129.00	273
43.95	492	63.05	1642	85.40	68	129.80	151
45.05	533	64.15	159	85.90	81	134.90	175
46.05	91	67.15	360	86.90	1554	140.80	161
46.95	1160	68.05	4685	88.00	1783	142.90	83
48.05	491	69.00	4446	91.00	207	147.00	109
49.05	2773	70.00	212	92.00	1052	163.75	84
50.05	11911	72.00	237	93.00	1606	173.95	27432
51.05	3655	73.00	1871	94.00	4556	174.95	2197
51.95	372	74.00	6936	95.00	46832	175.95	26824
53.25	107	75.00	22744	95.95	3291	176.90	1943
53.95	69	76.10	2115	98.25	76		

Data File: /chem/msc.i/c012296.b/c7972.d

Date : 21-JAN-96 23:54

Client ID:

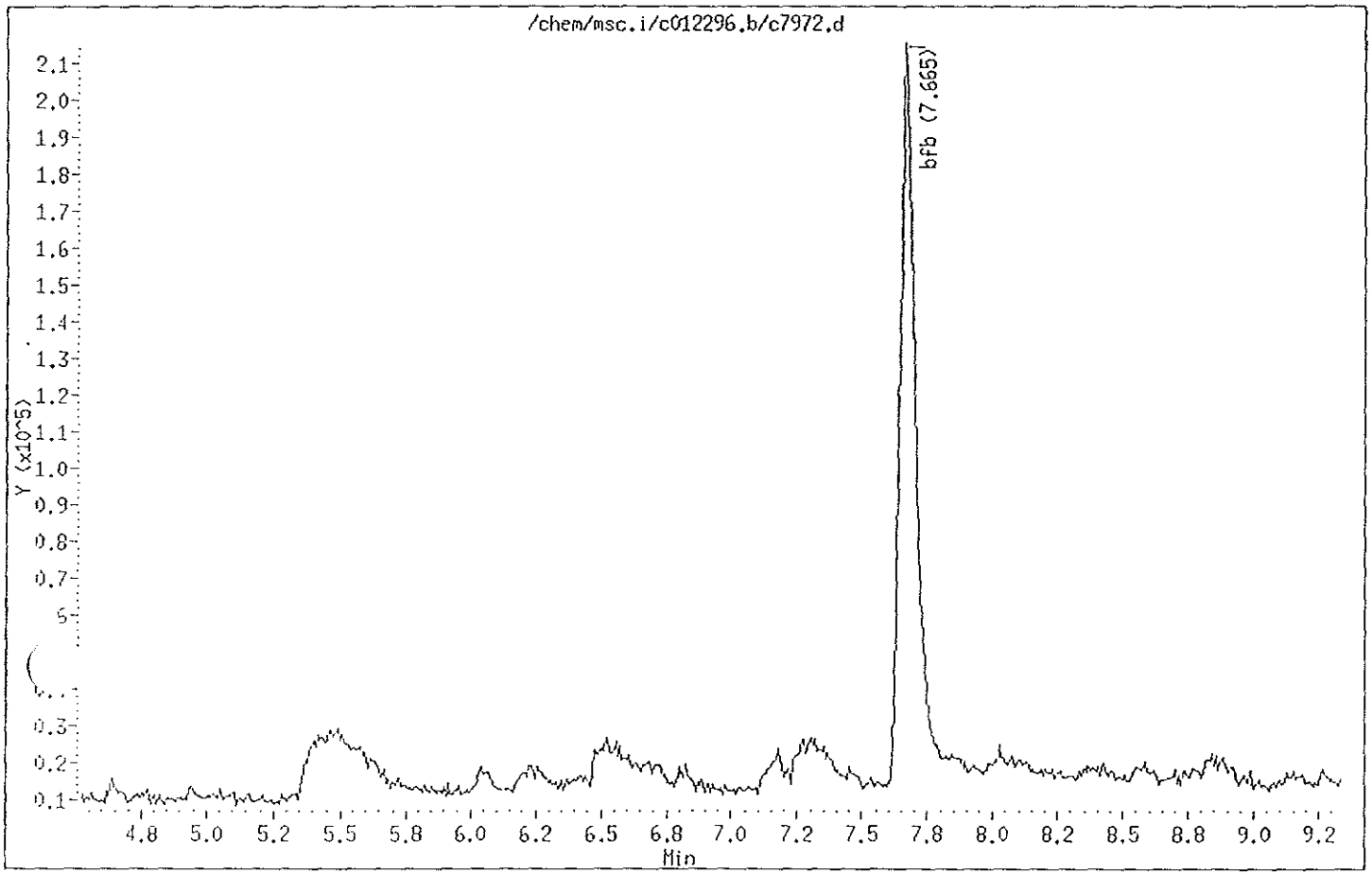
Instrument: msc.i

Sample Info: bfb tune

Operator: jk

Column phase: J&W DB-624

Column diameter: 0.53



Data File: /chem/msc.i/c012296.b/c7972.d

Date : 21-JAN-96 23:54

Client ID:

Instrument: msc.i

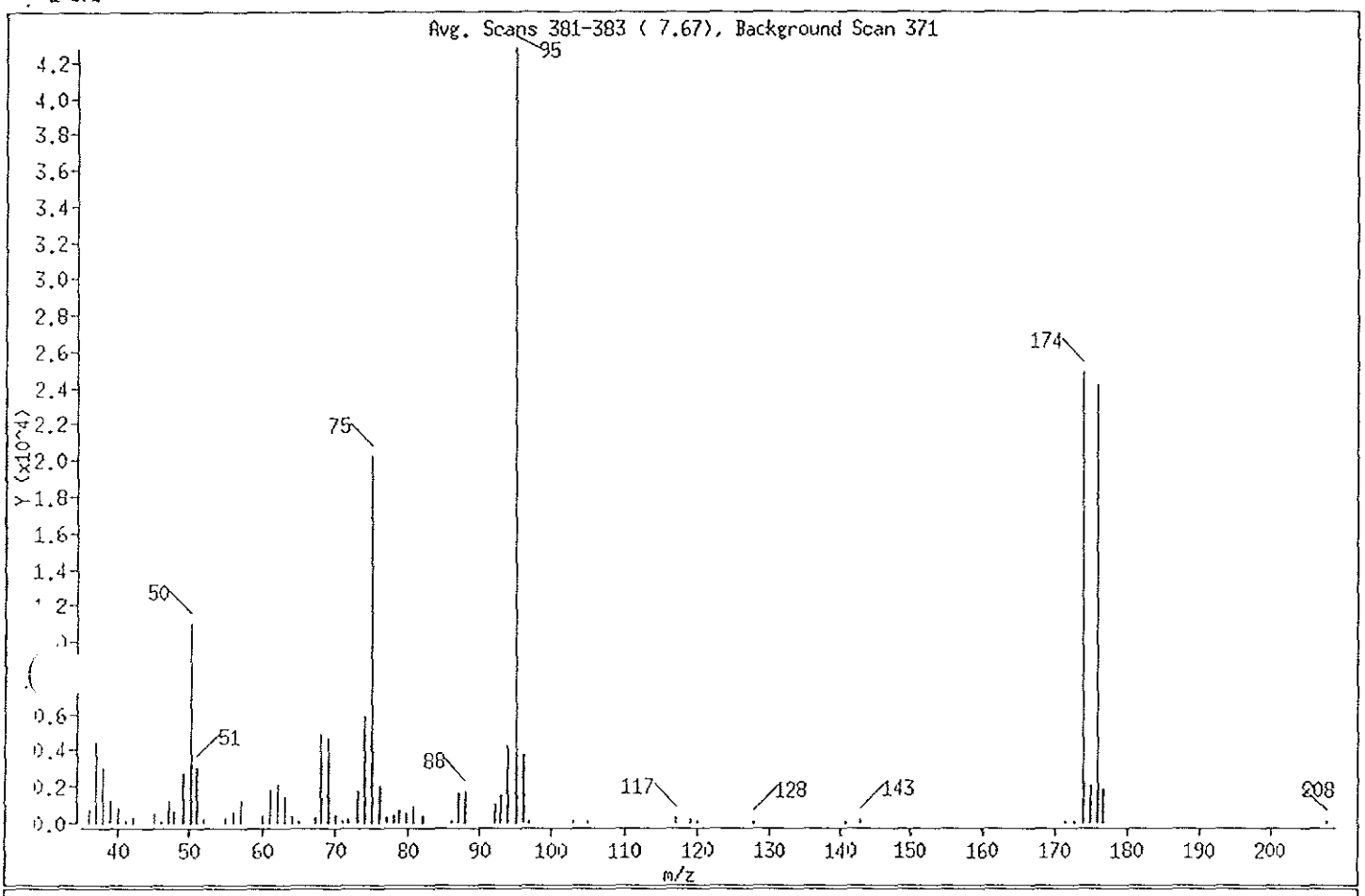
ample Info: bfb tune

Operator: jk

Column phase: J&W DB-624

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	25.73
75	30.00 - 60.00% of mass 95	47.23
96	5.00 - 9.00% of mass 95	8.70
173	Less than 2.00% of mass 174	0.22 (0.38)
174	50.00 - 100.00% of mass 95	58.24
175	5.00 - 9.00% of mass 174	4.72 (8.10)
176	95.00 - 101.00% of mass 174	56.62 (97.22)
177	5.00 - 9.00% of mass 176	4.14 (7.32)

Data File: /chem/msc.i/c012296.b/c7972.d

Date : 21-JAN-96 23:54

Client ID:

Instrument: msc.i

Sample Info: bfb tune

Operator: jk

Column phase: J&W DB-624

Column diameter: 0.53

Data File: c7972.d
Spectrum : Avg. Scans 381-383 (7.67), Background Scan 371
Largest m/z: 95.10
Number of peaks: 64

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	663	57.05	1170	77.00	285	116.95	257
37.10	4446	60.05	430	78.00	373	118.95	165
38.00	3067	61.05	1843	78.90	684	120.05	75
39.10	1211	62.05	2119	79.90	531	127.90	78
40.00	848	63.05	1391	80.90	950	140.80	86
41.10	101	64.05	379	82.00	413	142.90	166
42.05	338	65.05	77	86.20	71	171.55	71
45.05	503	67.25	309	87.10	1621	172.85	95
46.15	82	68.05	4825	88.00	1721	173.95	24912
47.05	1201	69.00	4664	92.10	1009	174.95	2018
47.95	566	70.10	425	93.00	1525	175.95	24224
49.05	2772	71.00	119	94.00	4269	176.90	1773
50.05	11009	71.90	209	95.10	42784	207.95	70
51.05	3053	73.00	1724	96.05	3724		
51.95	155	74.00	5869	96.95	122		
55.05	335	75.00	20208	103.05	73		
55.95	579	76.10	2068	104.85	75		

Data File: /chem/msa.i/a012396.b/a5810.d

Date : 23-JAN-96 06:19

Client ID:

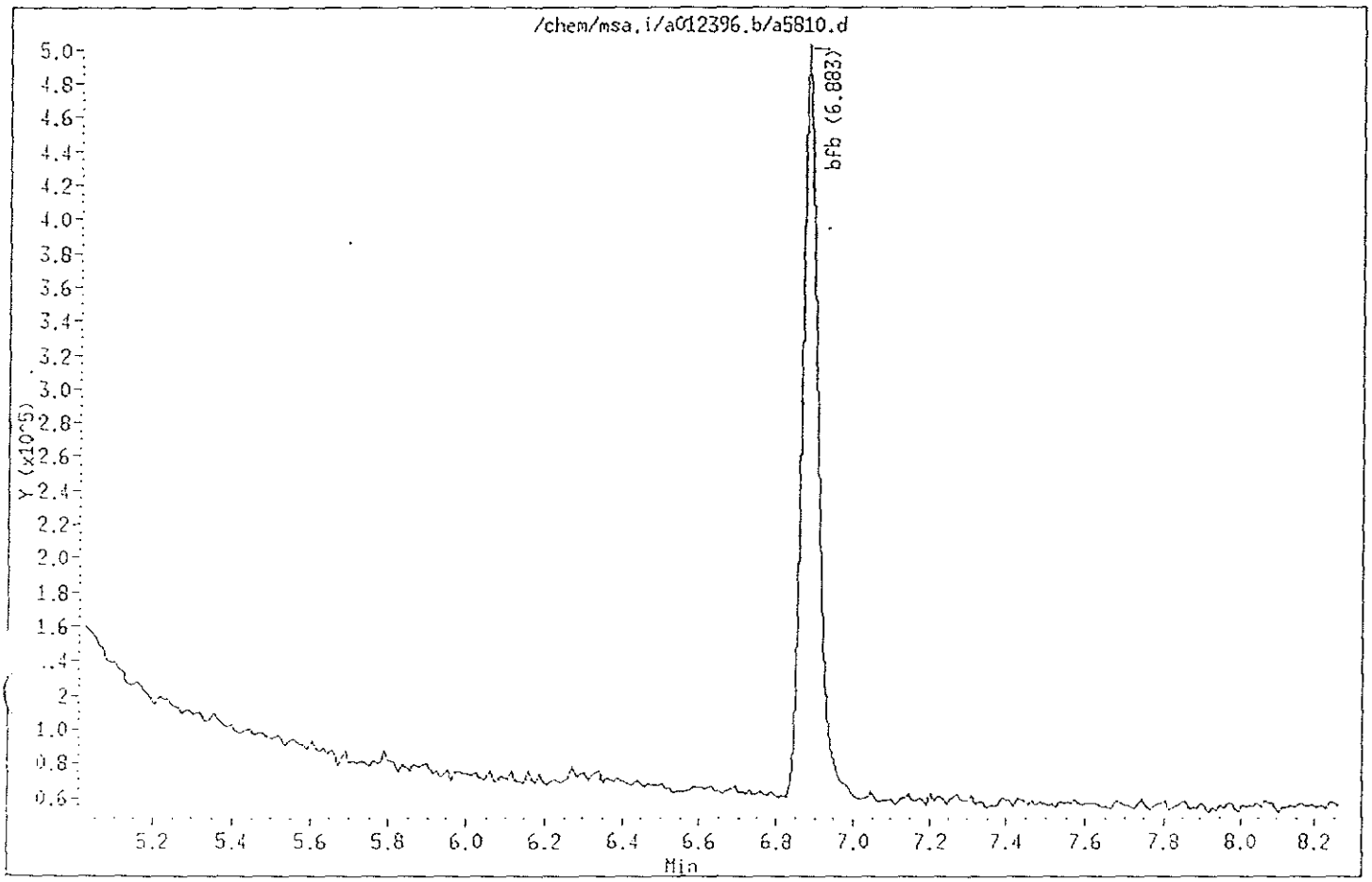
Instrument: msa.i

Sample Info: bfb 50ng ma2855

Operator: jk

Column phase: J&W DB-624

Column diameter: 0.53



Data File: /chem/msa.i/a012396.b/a5810.d

Date : 23-JAN-96 06:19

Client ID:

Instrument: msa.i

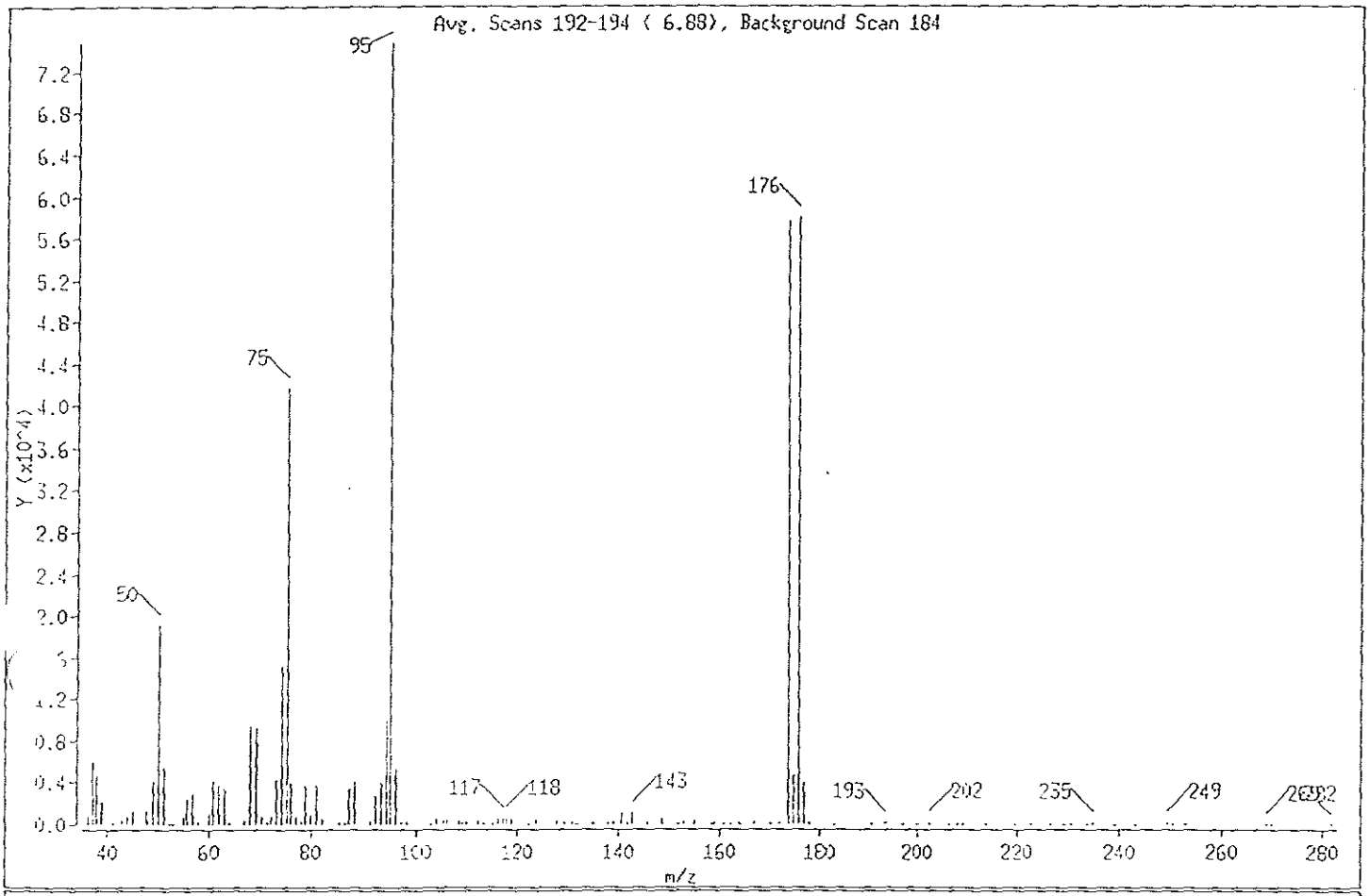
Sample Info: bfb 50ng ma2855

Operator: jk

Column phase: J&W DB-624

Column diameter: 0.53

1 bfb



m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	25.70
75	30.00 - 60.00% of mass 95	55.61
96	5.00 - 9.00% of mass 95	7.15
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	76.90
175	5.00 - 9.00% of mass 174	6.10 (7.93)
176	95.00 - 101.00% of mass 174	77.43 (100.69)
177	5.00 - 9.00% of mass 176	5.30 (6.85)

Data File: /chem/msa.i/a012396.b/a5810.d

Date : 23-JAN-96 06:19

Client ID:

Instrument: msa.i

Sample Info: bfb 50ng ma2855

Operator: jk

Column phase: J&W DB-624

Column diameter: 0.53

Data File: a5810.d
Spectrum : Avg. Scans 192-194 (6.88), Background Scan 184
Largest m/z: 95.05
Number of peaks: 124

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.05	733	75.00	41600	117.90	491	175.90	57928
37.05	5954	76.00	3956	119.00	458	176.90	3967
38.05	4667	76.90	629	122.40	63	178.00	226
39.05	2047	78.00	397	124.00	341	183.10	50
41.05	108	78.90	3786	127.90	272	190.60	57
43.05	351	79.95	960	129.10	220	193.50	253
43.95	791	80.95	3749	129.80	184	196.90	54
45.05	1223	82.05	482	131.20	111	199.90	51
47.65	1296	85.05	113	131.90	63	202.20	110
48.00	394	86.25	191	135.00	143	206.25	71
49.10	3994	86.95	3397	138.00	65	208.05	59
50.10	19224	87.95	4124	138.90	157	209.05	53
51.10	5417	90.95	338	140.80	995	213.85	69
52.10	62	91.95	2642	141.90	237	219.65	55
53.00	86	92.95	3952	142.85	1053	222.75	52
55.10	742	94.05	9950	145.65	106	226.75	72
56.00	2428	95.05	74808	148.45	520	229.05	63
57.00	2822	96.05	5352	148.95	26	230.55	52
58.10	230	97.05	201	151.85	72	233.95	64
60.00	1113	97.95	116	152.95	209	234.85	93
61.00	4063	102.85	80	154.95	319	239.10	75
62.00	3756	103.85	495	158.15	57	243.20	51
63.10	3384	105.15	402	158.85	92	249.20	123
63.90	184	105.95	291	160.95	51	250.40	87
67.00	425	108.45	314	162.15	58	253.00	59
68.00	9456	109.05	209	163.65	177	269.05	75
69.00	9305	110.05	100	164.45	55	269.95	58
70.00	783	112.10	373	166.95	152	281.95	55
71.10	218	113.30	134	170.25	60		
72.00	764	114.80	32	171.95	156		
73.00	4190	116.00	453	173.85	57528		
74.00	15244	117.00	577	174.90	4565		

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

0152

EPA SAMPLE NO.

VBLK01A

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

ab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

..atrix: (soil/water) SOIL Lab Sample ID: N2V4913V

Sample wt/vol: 5.00 (g/mL) G Lab File ID: C7976

Level: (low/med) LOW Date Received: 1/18/96

% Moisture: not dec. N/A Date Analyzed: 01/22/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

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

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0153

EPA SAMPLE NO.

VBLK01

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: N2V4913V

Sample wt/vol: 5.00 (g/mL) G Lab File ID: C7976

Level: (low/med) LOW Date Received: 1/18/96

% Moisture: not dec. N/A Date Analyzed: 01/22/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

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

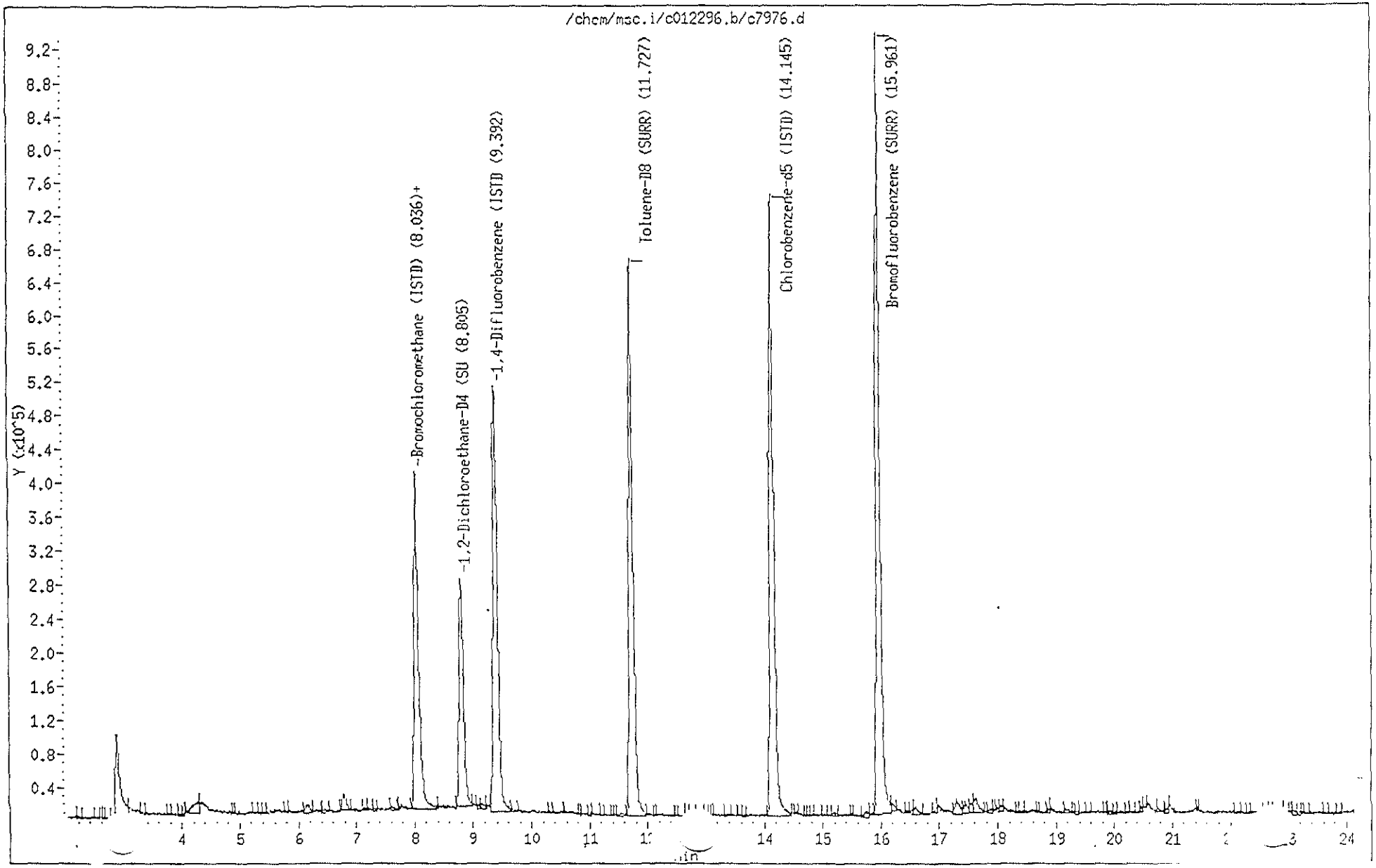
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 74-97-5	Methane, bromochloro-	8.04	41	JN

0154

Data File: /chem/msc.i/c012296.b/c7976.d
Date : 22-JAN-96 02:26
Client ID:
Sample Info: met blk
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i

Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c012296.b/c7976.d
Report Date: 22-Jan-1996 04:30

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240 ½ Screen

Data file : /chem/msc.i/c012296.b/c7976.d
Lab Smp Id:
Inj Date : 22-JAN-96 02:26
Operator : jk Inst ID: msc.i
Smp Info : met blk
Misc Info : n2v4913v,n2v4913,m2,5000,1,5.0,5.0,960122
Comment :
Method : /chem/msc.i/c012296.b/012196_heatc.m
Meth Date : 22-Jan-1996 04:27 glenn Quant Type: ISTD
Cal Date : 22-JAN-96 00:58 Cal File: c7974.d
Als bottle: 6
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

MC 1/22/96

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	
* Bromochloromethane (ISTD)	128.00	8.044	7.976	(1.000)	234316	50.0		(QM)
$ 1,2-Dichloroethane-D4 (SURR)	65.00	8.805	8.756	(1.000)	468271	47.6	47.6	
* 1,4-Difluorobenzene (ISTD)	114.00	9.392	9.328	(1.000)	834673	50.0		
$ 38 Toluene-D8 (SURR)	98.00	11.727	11.637	(0.829)	978512	50.8	50.8	
* 47 Chlorobenzene-d5 (ISTD)	117.00	14.145	14.072	(1.000)	851510	50.0		
$ 56 Bromofluorobenzene (SURR)	95.00	15.961	15.921	(1.123)	879631	49.4	49.4	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: /chem/msc.i/c012296.b/c7976.d

Date : 22-JAN-96 02:26

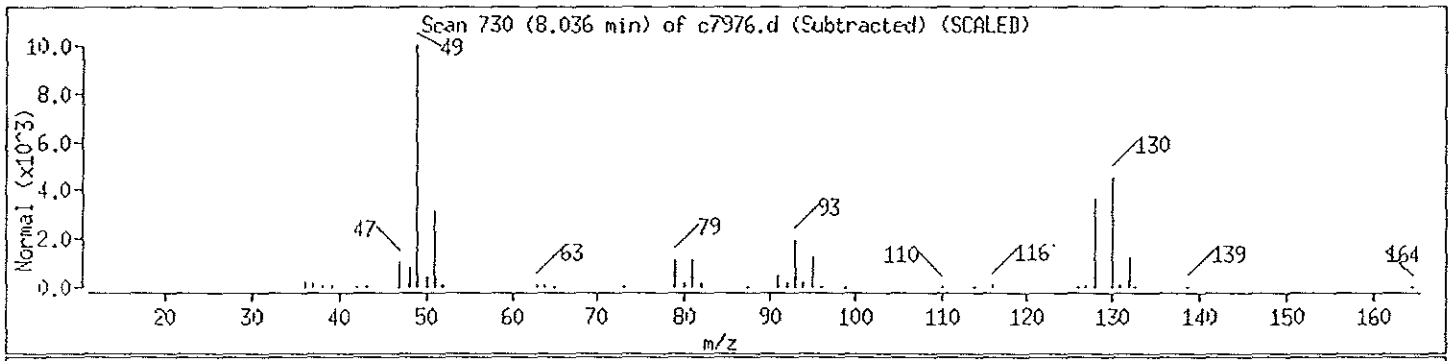
Client ID: Instrument: msc.i

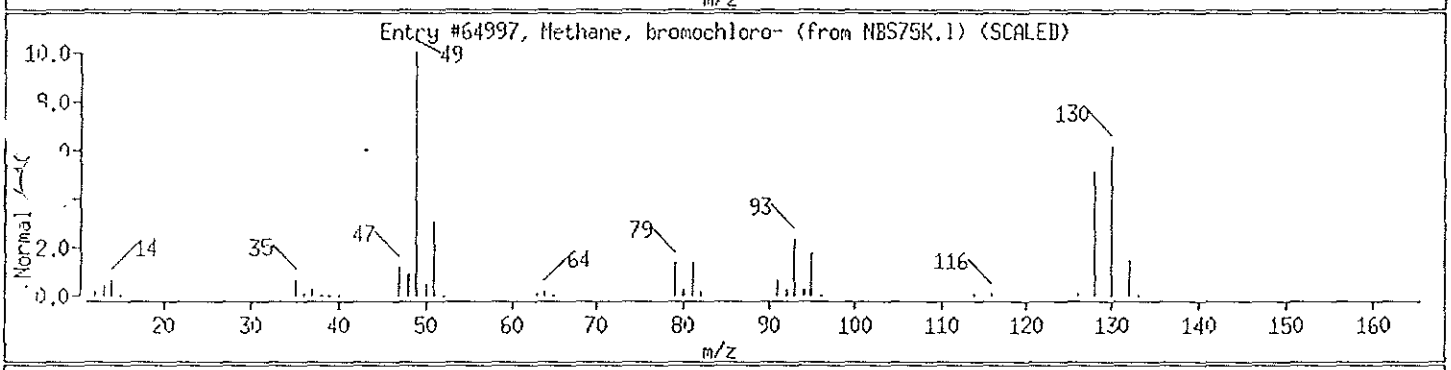
Sample Info: met blk

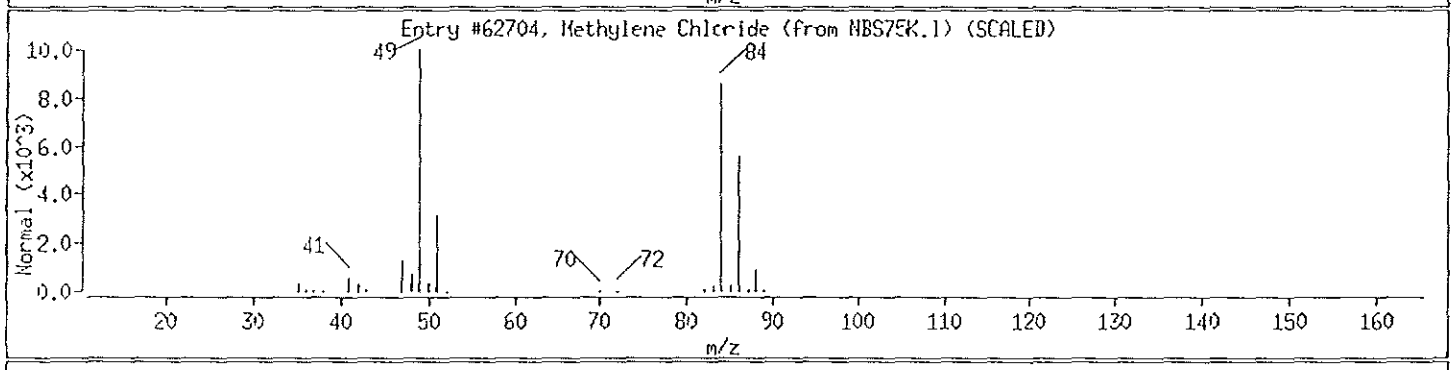
Purge Volume: 1.0 Operator: jk

Column phase: J&W DB_624 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Methane, bromochloro-	74-97-5	NBS75K.1	64997	97	CH2BrCl	128
Methylene Chloride	75-09-2	NBS75K.1	62704	59	CH2Cl2	84







1A
VOLATILE ORGANICS ANALYSIS DATA SHEET 0157

EPA SAMPLE NO.

VBLK01B

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: N2V4914V

Sample wt/vol: 5.00 (g/mL) G Lab File ID: C7984

Level: (low/med) LOW Date Received: 1/18/96

% Moisture: not dec. N/A Date Analyzed: 01/22/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 50.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	250	U
74-83-9	Bromomethane	250	U
75-01-4	Vinyl Chloride	250	U
75-00-3	Chloroethane	250	U
75-09-2	Methylene Chloride	250	U
67-64-1	Acetone	500	U
75-15-0	Carbon Disulfide	250	U
75-35-4	1,1-Dichloroethene	250	U
75-34-3	1,1-Dichloroethane	250	U
540-59-0	1,2-Dichloroethene (total)	250	U
67-66-3	Chloroform	250	U
107-06-2	1,2-Dichloroethane	250	U
78-93-3	2-Butanone	250	U
71-55-6	1,1,1-Trichloroethane	250	U
56-23-5	Carbon Tetrachloride	250	U
75-27-4	Bromodichloromethane	250	U
78-87-5	1,2-Dichloropropane	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
79-01-6	Trichloroethene	250	U
124-48-1	Dibromochloromethane	250	U
79-00-5	1,1,2-Trichloroethane	250	U
71-43-2	Benzene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
75-25-2	Bromoform	250	U
108-10-1	Methyl-iso-butyl ketone	500	U
591-78-6	2-Hexanone	250	U
127-18-4	Tetrachloroethylene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
108-88-3	Toluene	250	U
108-90-7	Chlorobenzene	250	U
100-41-4	Ethylbenzene	250	U
100-42-5	Styrene	250	U
1330-20-7	Xylene (total)	250	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0158

EPA SAMPLE NO.

VBLK01B

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: N2V4914V

Sample wt/vol: 5.00 (g/mL) G Lab File ID: C7984

Level: (low/med) LOW Date Received: 1/18/96

% Moisture: not dec. N/A Date Analyzed: 01/22/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 50.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100 (uL)

Number TICs found: 1

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

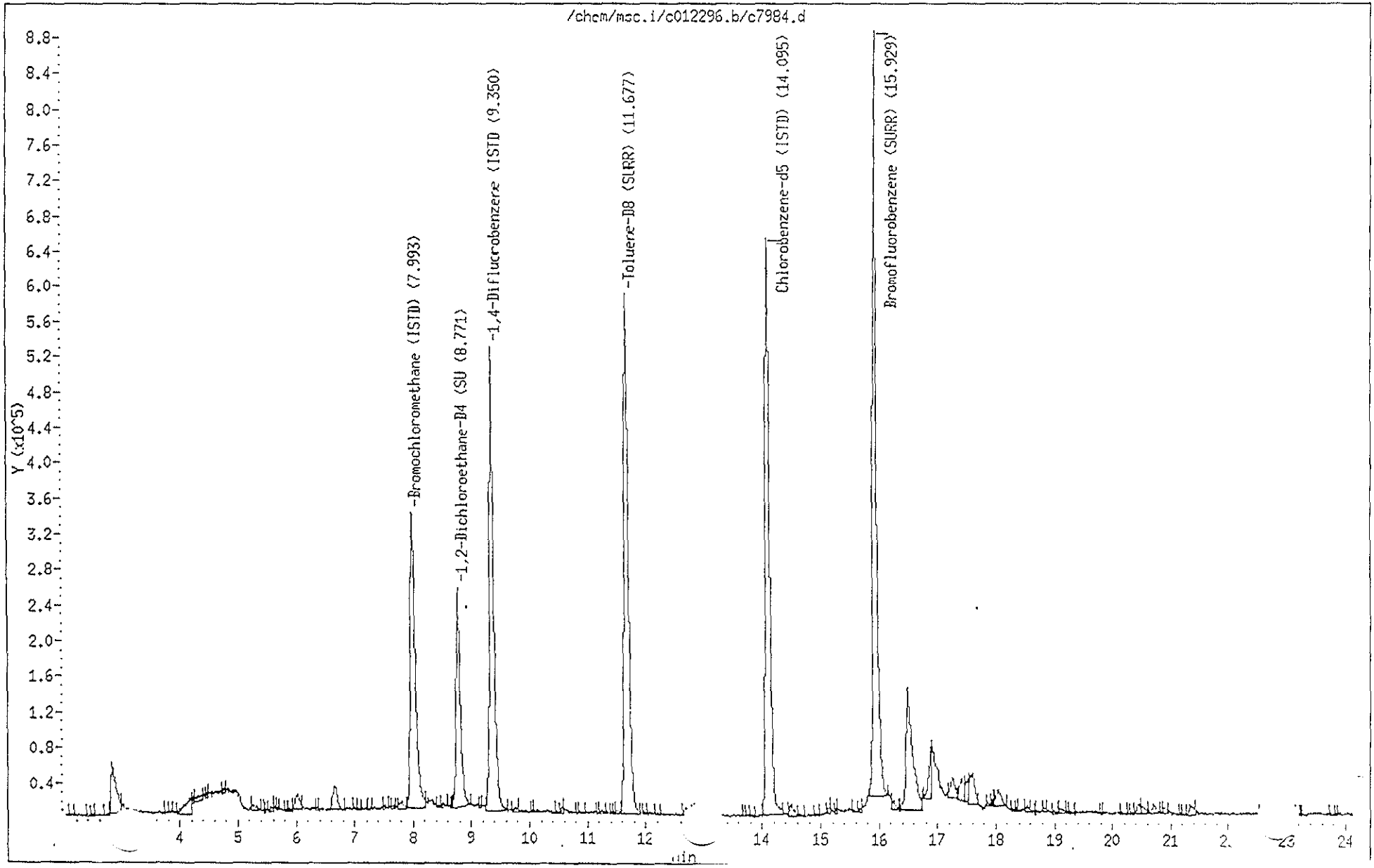
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-18-5	Decane	16.49	860	JN

0159

Data File: /chem/msc.i/c012296.b/c7984.d
Date : 22-JAN-96 06:48
Client ID: n2v4914 met blk
Sample Info: n2v4914 met blk
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i

Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c012296.b/c7984.d
Report Date: 22-Jan-1996 08:52

OHM Analytical Division

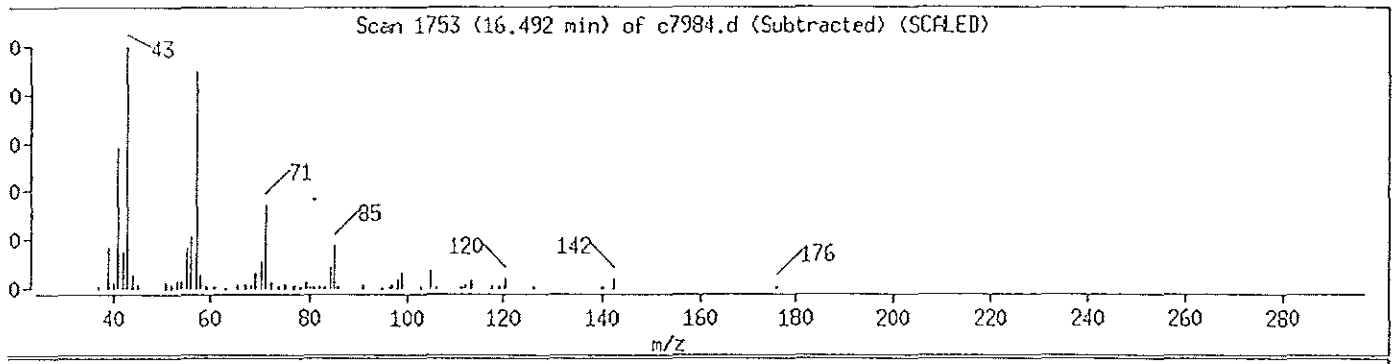
VOLATILE REPORT SW-846 Method 8240

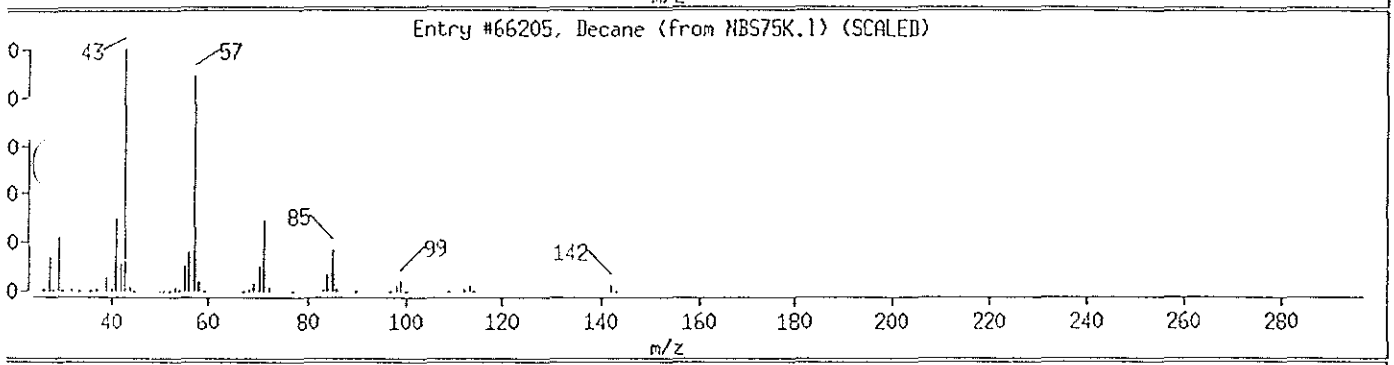
Data file : /chem/msc.i/c012296.b/c7984.d
Lab Smp Id: Client Smp ID: n2v4914 met blk
Inj Date : 22-JAN-96 06:48
Operator : jk Inst ID: msc.i
Smp Info : n2v4914 met blk
Misc Info : n2v4914v,n2v4914,m2,100,50,5.00,5.00,960121
Comment :
Method : /chem/msc.i/c012296.b/012196_ambic.m
Meth Date : 22-Jan-1996 08:31 glenn Quant Type: ISTD
Cal Date : 22-JAN-96 00:26 Cal File: c7973.d
Als bottle: 15
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

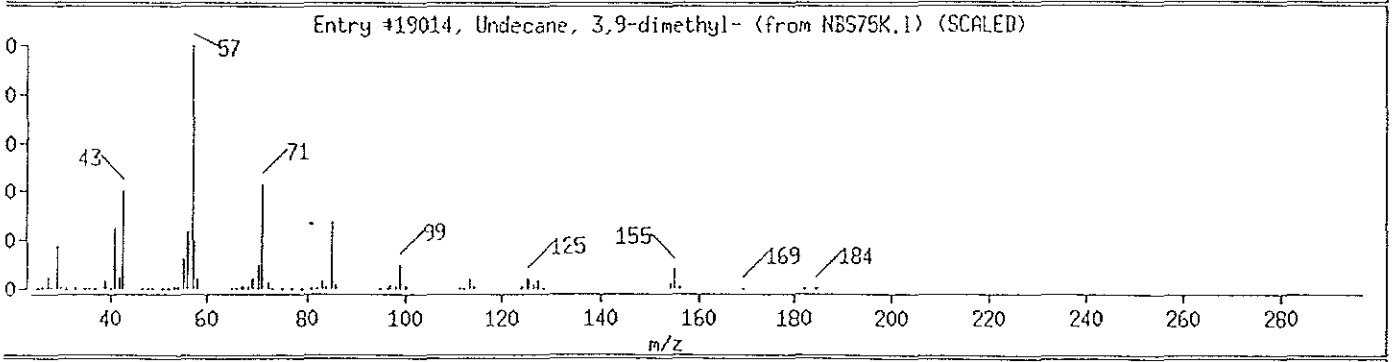
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* Bromochloromethane (ISTD)	128.00	8.002	7.904	(1.000)	205324	50.0	
S 1,2-Dichloroethane-D4 (SURR)	65.00	8.771	8.659	(1.096)	414631	50.8	50.8
* 1,4-Difluorobenzene (ISTD)	114.00	9.350	9.239	(1.000)	848748	50.0	
S 38 Toluene-D8 (SURR)	98.00	11.677	11.573	(0.828)	851395	46.8	46.8
* 47 Chlorobenzene-d5 (ISTD)	117.00	14.103	13.991	(1.000)	772817	50.0	
S 56 Bromofluorobenzene (SURR)	95.00	15.929	15.840	(1.129)	842736	51.4	51.4

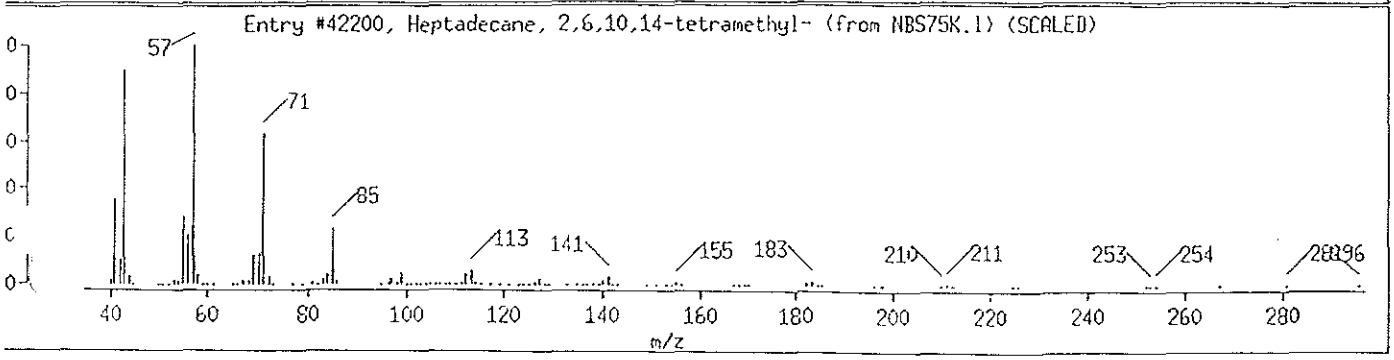
Data File: /chem/msc.i/c012296.b/c7984.d
Date : 22-JAN-96 06:48
Client ID: n2v4914 met blk
Instrument: msc.i
Sample Info: n2v4914 met blk
Purge Volume: 1.0
Operator: jk
Column phase: J&W DB_624
Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decane	124-18-5	NBS75K.1	66205	95	C10H22	142
Undecane, 3,9-dimethyl-	17301-31-4	NBS75K.1	19014	64	C13H28	184
Heptadecane, 2,6,10,14-tetramethyl-	18344-37-1	NBS75K.1	42200	64	C21H44	296









1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0162

VBLK01C

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) WATER Lab Sample ID: N1V4919V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: A5813

Level: (low/med) LOW Date Received: 1/18/96

% Moisture: not dec. N/A Date Analyzed: 01/23/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0163

EPA SAMPLE NO.

VBLK01C

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

ab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

matrix: (soil/water) WATER Lab Sample ID: N1V4919V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: A5813

Level: (low/med) LOW Date Received: 1/18/96

% Moisture: not dec. N/A Date Analyzed: 01/23/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

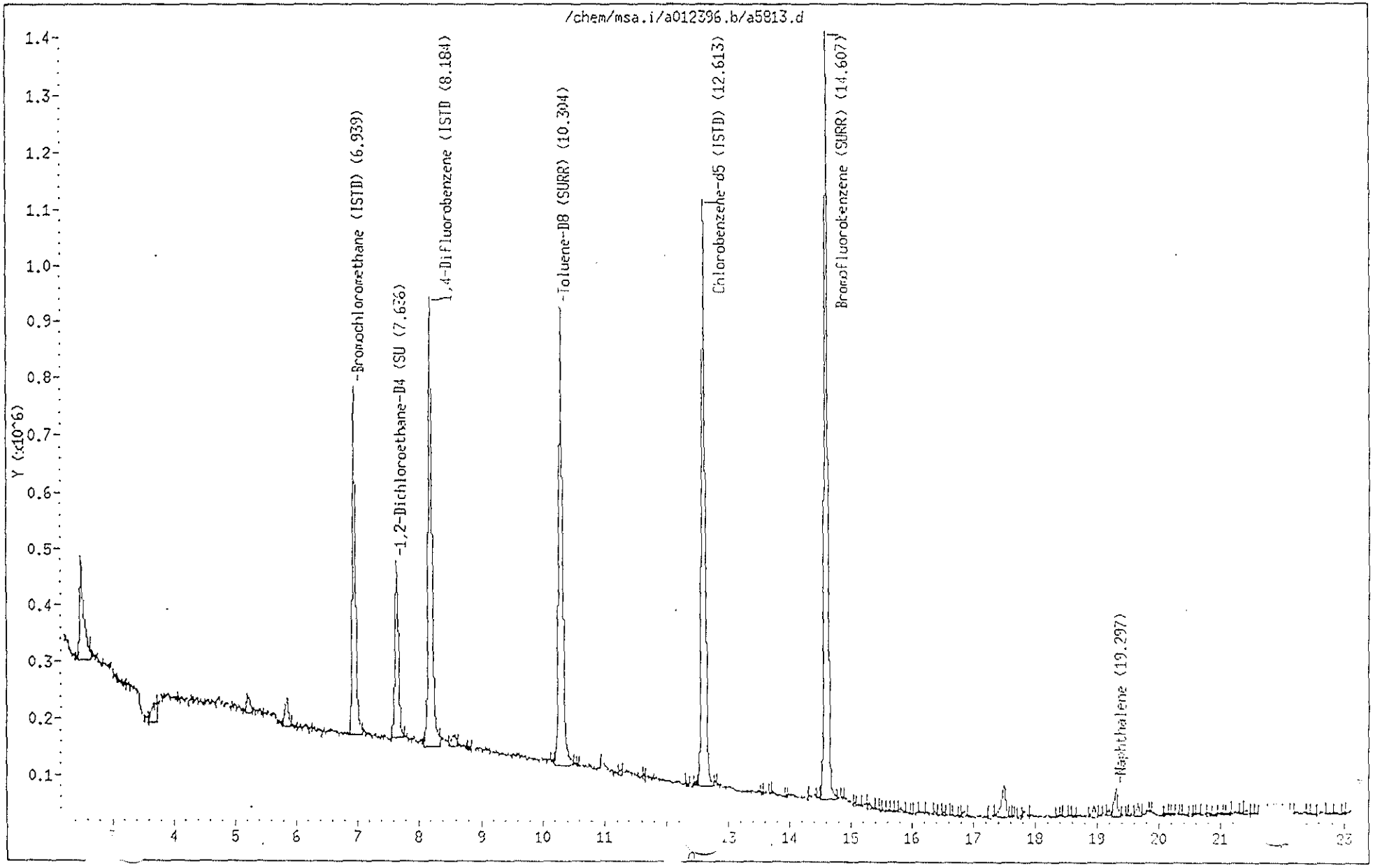
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0164

Data File: /chem/msa.i/a012396.b/a5813.d
Date : 23-JAN-96 08:17
Client ID: n1v4919 blk
Sample Info: n1v4919 blk (1)
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msa.i

Operator: jk
Column diameter: 0.53



OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240 + Screen

Data file : /chem/msa.i/a012396.b/a5813.d
Lab Smp Id: Client Smp ID: n1v4919 blk
Inj Date : 23-JAN-96 08:17
Operator : jk Inst ID: msa.i
Smp Info : n1v4919 blk (1)
Misc Info : n1v4919v,n1v4919,m2,5000,1,5.0,5.0,960123,
Comment :
Method : /chem/msa.i/a012396.b/011996_ambia.m
Meth Date : 24-Jan-1996 11:22 glenn Quant Type: ISTD
Cal Date : 23-JAN-96 07:25 Cal File: a5812.d
Als bottle: 3
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

MK 1/2/96

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	7 Bromochloromethane (ISTD)	128.00	6.939	6.976	(1.000)	288913	50.0	
S	1,2-Dichloroethane-D4 (SURR)	65.00	7.636	7.696	(0.933)	456060	41.2	41.2
*	30 1,4-Difluorobenzene (ISTD)	114.00	8.184	8.249	(1.000)	1214425	50.0	
S	38 Toluene-D8 (SURR)	98.00	10.304	10.363	(0.817)	1161480	48.1	48.1
*	47 Chlorobenzene-d5 (ISTD)	117.00	12.613	12.641	(1.000)	1148935	50.0	
S	56 Bromofluorobenzene (SURR)	95.00	14.607	14.622	(1.153)	983400	52.0	52.0
	75 Naphthalene	128.00	19.305	19.305	(1.531)	67620	2.30	2.30

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

0166

EPA SAMPLE NO.

CLJ78CS002MS

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

ab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2492VS

Sample wt/vol: 2.54 (g/mL) G Lab File ID: C7990

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: not dec. 15 Date Analyzed: 01/22/96

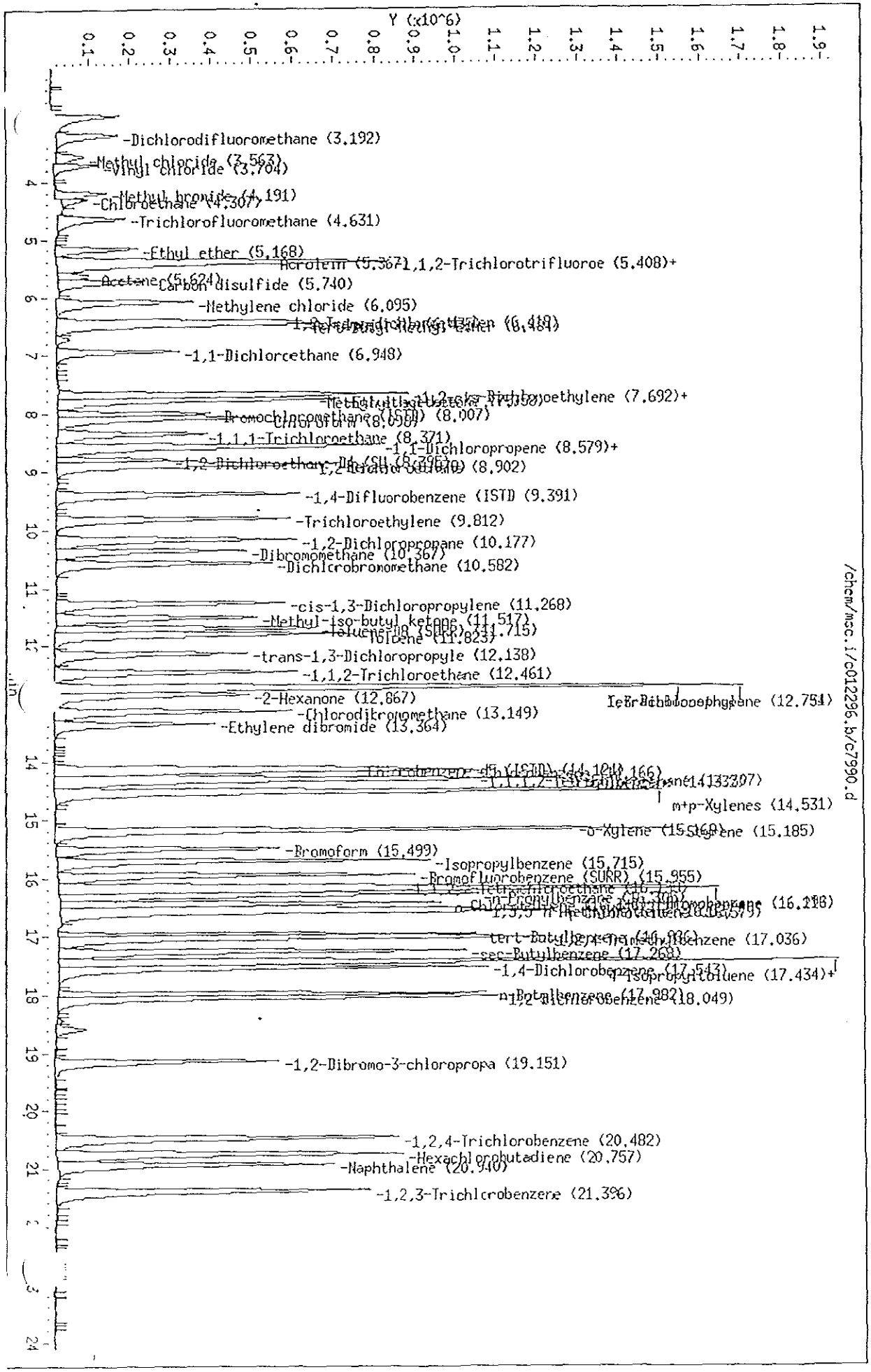
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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	130	
74-83-9	Bromomethane	120	
75-01-4	Vinyl Chloride	120	
75-00-3	Chloroethane	130	
75-09-2	Methylene Chloride	120	
67-64-1	Acetone	150	
75-15-0	Carbon Disulfide	120	
75-35-4	1,1-Dichloroethene	120	
75-34-3	1,1-Dichloroethane	120	
540-59-0	1,2-Dichloroethene (total)	260	
67-66-3	Chloroform	110	
107-06-2	1,2-Dichloroethane	110	
78-93-3	2-Butanone	110	
71-55-6	1,1,1-Trichloroethane	100	
56-23-5	Carbon Tetrachloride	100	
75-27-4	Bromodichloromethane	100	
78-87-5	1,2-Dichloropropane	110	
10061-01-5	cis-1,3-Dichloropropene	110	
79-01-6	Trichloroethene	110	
124-48-1	Dibromochloromethane	100	
79-00-5	1,1,2-Trichloroethane	100	
71-43-2	Benzene	100	
10061-02-6	trans-1,3-Dichloropropene	100	
75-25-2	Bromoform	100	
108-10-1	Methyl-iso-butyl ketone	120	
591-78-6	2-Hexanone	120	
127-18-4	Tetrachloroethylene	200	
79-34-5	1,1,2,2-Tetrachloroethane	120	
108-88-3	Toluene	130	
108-90-7	Chlorobenzene	110	
100-41-4	Ethylbenzene	110	
100-42-5	Styrene	110	
1330-20-7	Xylene (total)	340	

Data File: /chem/msc.i/c012296.b/c7990.d
Date : 22-JAN-96 10:02
Client ID: n2v4913 mtx spk
Sample Info: n2v4913 mtx spk rerun (8)
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i
Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c012296.b/c7990.d
Report Date: 22-Jan-1996 10:38

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msc.i/c012296.b/c7990.d
Lab Smp Id: Client Smp ID: n2v4913 mtx spk
Inj Date : 22-JAN-96 10:02
Operator : jk Inst ID: msc.i
Smp Info : n2v4913 mtx spk rerun (8)
Misc Info : jp2492vs,n2v4913,m2,5000,1,2.54,5.00,960122
Comment :
Method : /chem/msc.i/c012296.b/012196_heatc.m
Meth Date : 22-Jan-1996 10:10 glenn Quant Type: ISTD
Cal Date : 22-JAN-96 00:58 Cal File: c7974.d
Als bottle: 8
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

MK 1/22/96

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
Dichlorodifluoromethane	85.00	3.184	3.159	(0.397)	518172	51.3	51.3
Methyl chloride	50.00	3.563	3.531	(0.445)	340632	54.6	54.6
inyl chloride	62.00	3.704	3.680	(0.462)	316117	52.0	52.0
4 Methyl bromide	94.00	4.183	4.159	(0.522)	203001	50.3	50.3
5 Chloroethane	64.00	4.315	4.283	(0.538)	127051	53.7	53.7
6 Trichlorofluoromethane	101.00	4.631	4.615	(0.578)	427167	52.5	52.5
7 Ethyl ether	59.00	5.176	5.145	(0.646)	261226	50.0	50.0
8 Acrolein	56.00	5.367	5.335	(0.670)	420592	52.4	52.4
9 1,1,2-Trichlorotrifluoroethan	101.00	5.400	5.369	(0.674)	610616	52.1	52.1
10 1,1-Dichloroethylene	96.00	5.417	5.394	(0.676)	289458	51.8	51.8
11 Acetone	43.00	5.624	5.609	(0.702)	316905	62.7	62.7
12 Carbon disulfide	76.00	5.740	5.717	(0.715)	767964	51.2	51.2
13 Methylene chloride	84.00	6.095	6.064	(0.760)	344898	51.3	51.3
14 Acrylonitrile	53.00	6.435	6.428	(0.803)	166116	50.5	50.5
15 1,2-Trans-dichloroethylene	96.00	6.418	6.403	(0.801)	320998	50.8	50.8
16 Tert-Butyl Methyl Ether	73.00	6.484	6.470	(0.809)	876260	50.2	50.2
17 1,1-Dichloroethane	63.00	6.939	6.925	(0.866)	704135	49.4	49.4
18 1,2-cis-Dichloroethylene	96.00	7.692	7.661	(0.960)	401668	59.8	59.8
19 2,2-Dichloropropane	77.00	7.692	7.661	(0.960)	510389	56.8	56.8
20 Methyl ethyl ketone	72.00	7.758	7.711	(0.825)	71444	47.8	47.8 (QM)
21 Ethyl acetate	43.00	7.775	7.752	(0.970)	2171903	50.6	50.6
22 Bromochloromethane (ISTD)	128.00	8.015	7.976	(1.000)	222376	50.0	
23 Chloroform	83.00	8.098	8.067	(1.010)	711364	49.0	49.0
24 1,1,1-Trichloroethane	97.00	8.371	8.324	(0.891)	552210	43.3	43.3
25 1,1-Dichloropropene	75.00	8.571	8.532	(0.912)	507982	44.4	44.4
Carbon tetrachloride	117.00	8.587	8.549	(0.914)	482840	43.7	43.7
1,2-Dichloroethane-D4 (SURR)	65.00	8.795	8.756	(1.097)	465815	49.9	49.9
nzene	78.00	8.878	8.831	(0.945)	758191	43.9	43.9
29 1,2-Dichloroethane	62.00	8.902	8.856	(1.111)	558205	48.4	48.4

Data File: /chem/msc.i/c012296.b/c7990.d
Report Date: 22-Jan-1996 10:38

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 30 1,4-Difluorobenzene (ISTD)	114.00	9.399	9.328	(1.000)	980583	50.0	
31 Trichloroethylene	130.00	9.821	9.750	(1.045)	442619	48.1	48.1
32 1,2-Dichloropropane	63.00	10.177	10.106	(1.083)	533516	46.0	46.0
33 Dibromomethane	93.00	10.367	10.297	(1.103)	485403	43.7	43.7
34 Dichlorobromomethane	83.00	10.582	10.520	(1.126)	813683	44.4	44.4
36 cis-1,3-Dichloropropylene	75.00	11.268	11.198	(1.199)	679674	46.5	46.5
37 Methyl-iso-butyl ketone	43.00	11.517	11.455	(0.815)	1182188	51.0	51.0
$ 38 Toluene-D8 (SURR)	98.00	11.715	11.637	(0.829)	937547	53.0	53.0
39 Toluene	91.00	11.823	11.754	(0.837)	1126543	54.4	54.4
40 trans-1,3-Dichloropropylene	75.00	12.138	12.077	(1.291)	546156	43.5	43.5
41 1,1,2-Trichloroethane	97.00	12.469	12.400	(1.327)	439059	44.0	44.0
42 Tetrachloroethylene	164.00	12.726	12.665	(0.901)	692922	86.1	86.1
43 1,3-Dichloropropane	76.00	12.751	12.690	(0.903)	739888	48.5	48.5
44 2-Hexanone	43.00	12.867	12.806	(0.911)	911195	49.6	49.6
45 Chlorodibromomethane	129.00	13.149	13.088	(1.399)	695974	43.8	43.8
46 Ethylene dibromide	107.00	13.364	13.303	(0.946)	700091	49.2	49.2
* 47 Chlorobenzene-d5 (ISTD)	117.00	14.124	14.072	(1.000)	782673	50.0	
48 Chlorobenzene	112.00	14.174	14.122	(1.004)	827165	48.8	48.8
49 1,1,1,2-Tetrachloroethane	133.00	14.307	14.255	(1.013)	443747	50.4	50.4
50 Ethylbenzene	106.00	14.340	14.288	(1.015)	383501	48.9	48.9
m+p-Xylenes	106.00	14.531	14.479	(1.029)	944004	96.8	96.8
o-Xylene	106.00	15.168	15.125	(1.074)	468984	50.3	50.3
Styrene	104.00	15.185	15.150	(1.075)	762821	48.2	48.2
54 Bromoform	173.00	15.508	15.464	(1.650)	628278	44.1	44.1
55 Isopropylbenzene	105.00	15.715	15.672	(1.113)	1316764	49.7	49.7
$ 56 Bromofluorobenzene (SURR)	95.00	15.955	15.921	(1.130)	831342	50.8	50.8
57 1,1,2,2-Tetrachloroethane	83.00	16.138	16.103	(1.143)	979787	49.6	49.6
58 1,2,3-Trichloropropane	75.00	16.213	16.170	(1.148)	854629	49.3	49.3
59 Bromobenzene	156.00	16.188	16.153	(1.146)	476907	49.0	49.0
60 n-Propylbenzene	91.00	16.305	16.262	(1.154)	1641570	48.2	48.2
61 o-Chlorotoluene	91.00	16.446	16.412	(1.164)	1308875	49.3	49.3
62 1,3,5-Trimethylbenzene	105.00	16.537	17.001	(1.171)	1112962	48.9	48.9(M)
63 p-Chlorotoluene	91.00	16.587	16.553	(1.174)	1392092	47.5	47.5
64 tert-Butylbenzene	119.00	16.977	17.409	(1.202)	1121803	44.1	44.1(M)
65 1,2,4-Trimethylbenzene	105.00	17.044	17.001	(1.207)	1133616	49.8	49.8
66 sec-Butylbenzene	105.00	17.268	17.226	(1.223)	1551709	50.2	50.2
67 4-Isopropyltoluene	119.00	17.443	17.409	(1.235)	1256352	49.4	49.4
68 1,3-Dichlorobenzene	146.00	17.434	17.400	(1.234)	729022	48.2	48.2
69 1,4-Dichlorobenzene	146.00	17.543	17.517	(1.242)	885550	48.1	48.1
70 n-Butylbenzene	91.00	17.982	17.949	(1.273)	1415594	51.4	51.4
71 1,2-Dichlorobenzene	146.00	18.057	18.024	(1.278)	767685	49.2	49.2
72 1,2-Dibromo-3-chloropropane	75.00	19.159	19.117	(1.356)	372660	47.8	47.8
73 1,2,4-Trichlorobenzene	180.00	20.482	20.441	(1.450)	673303	47.5	47.5
74 Hexachlorobutadiene	225.00	20.757	20.725	(1.470)	444018	50.5	50.5
75 Naphthalene	128.00	20.940	20.891	(1.483)	1315014	42.6	42.6
1,2,3-Trichlorobenzene	180.00	21.396	21.348	(1.515)	654974	46.5	46.5

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET 0170

EPA SAMPLE NO.

CLJ78CS004MS

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2494VS

Sample wt/vol: ~~2.19~~ 4.37 (g/mL) G Lab File ID: C7986

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: not dec. 17 Date Analyzed: 01/22/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 250.0

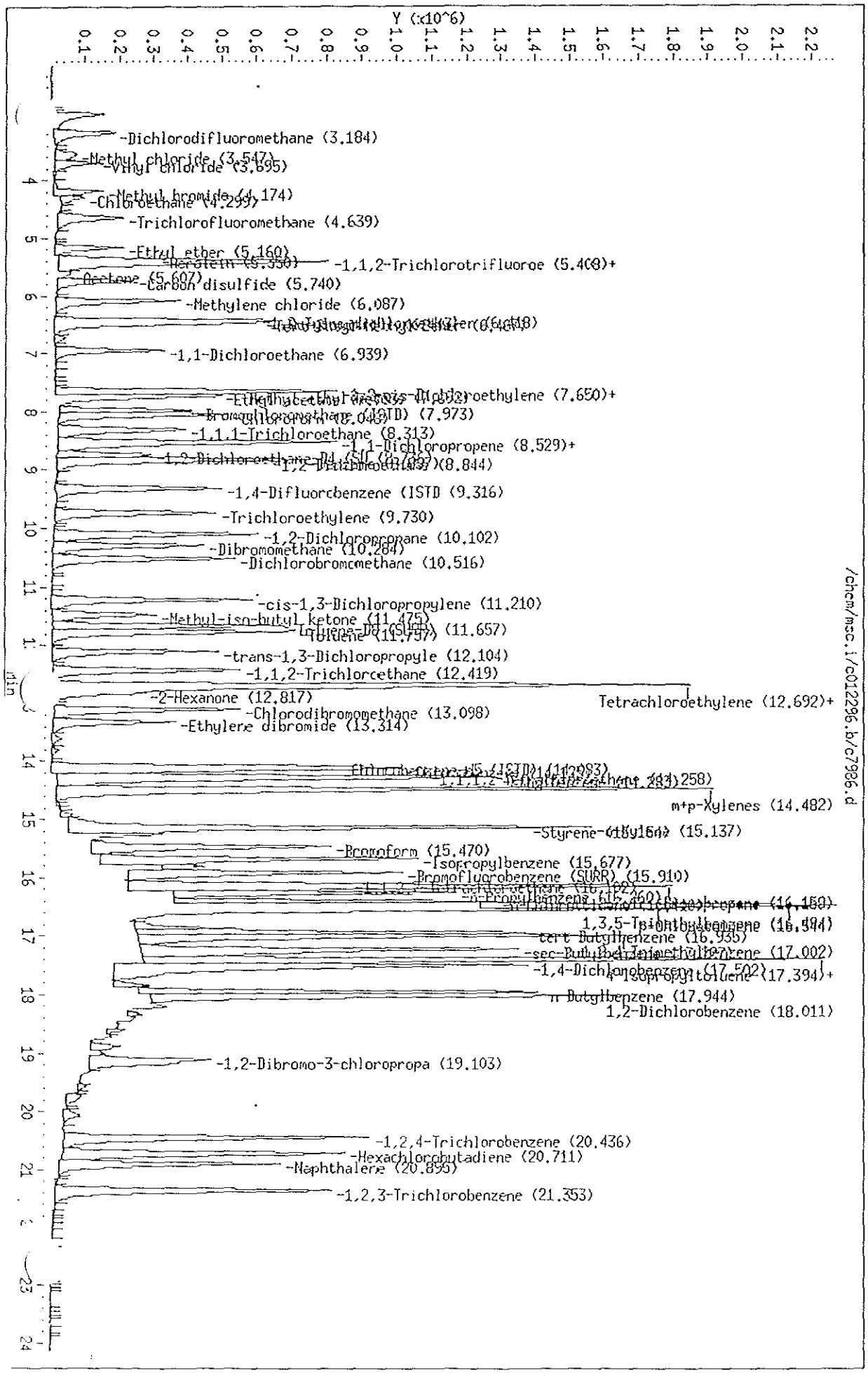
Soil Extract Volume: ~~5000~~ 10000 (uL) Soil Aliquot Volume: 20.0 (uL)

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	40000	
74-83-9	Bromomethane	33000	
75-01-4	Vinyl Chloride	38000	
75-00-3	Chloroethane	35000	
75-09-2	Methylene Chloride	35000	
67-64-1	Acetone	40000	
75-15-0	Carbon Disulfide	37000	
75-35-4	1,1-Dichloroethene	38000	
75-34-3	1,1-Dichloroethane	38000	
540-59-0	1,2-Dichloroethene (total)	74000	
67-66-3	Chloroform	37000	
107-06-2	1,2-Dichloroethane	36000	
78-93-3	2-Butanone	36000	
71-55-6	1,1,1-Trichloroethane	35000	
56-23-5	Carbon Tetrachloride	36000	
75-27-4	Bromodichloromethane	34000	
78-87-5	1,2-Dichloropropane	36000	
10061-01-5	cis-1,3-Dichloropropene	35000	
79-01-6	Trichloroethene	32000	
124-48-1	Dibromochloromethane	34000	
79-00-5	1,1,2-Trichloroethane	33000	
71-43-2	Benzene	36000	
10061-02-6	trans-1,3-Dichloropropene	34000	
75-25-2	Bromoform	34000	
108-10-1	Methyl-iso-butyl ketone	34000	
591-78-6	2-Hexanone	35000	
127-18-4	Tetrachloroethylene	72000	
79-34-5	1,1,2,2-Tetrachloroethane	33000	
108-88-3	Toluene	35000	
108-90-7	Chlorobenzene	35000	
100-41-4	Ethylbenzene	34000	
100-42-5	Styrene	35000	
1330-20-7	Xylene (total)	100000	

Data File: /chem/msc.i/c012296.b/c7986.d
Date : 22-JAN-96 07:51
Client ID: n2v4914 mtx spk
Sample Info: 17418n clj78cs004 ms
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i
Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c012296.b/c7986.d
Report Date: 22-Jan-1996 08:57

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msc.i/c012296.b/c7986.d
Lab Smp Id: Client Smp ID: n2v4914 mtx spk
Inj Date : 22-JAN-96 07:51
Operator : jk Inst ID: msc.i
Smp Info : 17418n clj78cs004 ms
Misc Info : jp2494vs,n2v4914,m2,20,250,2.19,5.00,960121
Comment :
Method : /chem/msc.i/c012296.b/012196_ambic.m
Meth Date : 22-Jan-1996 08:31 glenn Quant Type: ISTD
Cal Date : 22-JAN-96 00:26 Cal File: c7973.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

MK 1/22/96

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
Dichlorodifluoromethane	85.00	3.184	3.123	(0.400)	527307	53.9	53.9
Methyl chloride	50.00	3.555	3.487	(0.446)	340362	58.1	58.1
Vinyl chloride	62.00	3.695	3.644	(0.464)	311652	55.7	55.7
4 Methyl bromide	94.00	4.174	4.123	(0.524)	197898	48.1	48.1
5 Chloroethane	64.00	4.299	4.239	(0.540)	128898	50.4	50.4
6 Trichlorofluoromethane	101.00	4.647	4.628	(0.583)	512211	46.6	46.6
7 Ethyl ether	59.00	5.152	5.039	(0.647)	249251	54.6	54.6
8 Acrolein	56.00	5.350	5.289	(0.672)	254321	53.3	53.3
9 1,1,2-Trichlorotrifluoroethan	101.00	5.400	5.364	(0.678)	600896	55.2	55.2
10 1,1-Dichloroethylene	96.00	5.417	5.381	(0.680)	290875	55.5	55.5
11 Acetone	43.00	5.607	5.522	(0.704)	136980	58.3	58.3
12 Carbon disulfide	76.00	5.740	5.704	(0.721)	783728	54.2	54.2
13 Methylene chloride	84.00	6.087	6.026	(0.764)	335098	51.2	51.2
14 Acrylonitrile	53.00	6.434	6.349	(0.808)	102620	52.5	52.5
15 1,2-Trans-dichloroethylene	96.00	6.418	6.357	(0.806)	317156	54.6	54.6
16 Tert-Butyl Methyl Ether	73.00	6.467	6.398	(0.812)	804561	55.1	55.1
17 1,1-Dichloroethane	63.00	6.939	6.878	(0.871)	736046	55.1	55.1
18 1,2-cis-Dichloroethylene	96.00	7.650	7.581	(0.960)	338186	53.6	53.6
19 2,2-Dichloropropane	77.00	7.650	7.589	(0.960)	485870	56.2	56.2
20 Methyl ethyl ketone	72.00	7.692	7.606	(0.826)	34564	51.8	51.8
21 Ethyl acetate	43.00	7.733	7.656	(0.971)	1249830	53.2	53.2
22 Bromochloromethane (ISTD)	128.00	7.965	7.904	(1.000)	214010	50.0	
23 Chloroform	83.00	8.056	7.979	(1.011)	722318	53.5	53.5
24 1,1,1-Trichloroethane	97.00	8.313	8.253	(0.892)	557621	51.4	51.4
25 1,1-Dichloropropene	75.00	8.520	8.452	(0.915)	508366	53.1	53.1
Carbon tetrachloride	117.00	8.537	8.468	(0.916)	483432	52.1	52.1
1,2-Dichloroethane-D4 (SURR)	65.00	8.736	8.659	(1.097)	457468	53.7	53.7
Benzene	78.00	8.819	8.750	(0.947)	773653	52.5	52.5
29 1,2-Dichloroethane	62.00	8.844	8.767	(1.110)	556219	53.0	53.0

Data File: /chem/msc.i/c012296.b/c7986.d
Report Date: 22-Jan-1996 08:57

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 30 1,4-Difluorobenzene (ISTD)	114.00	9.316	9.239	(1.000)	766389	50.0	
31 Trichloroethylene	130.00	9.738	9.662	(1.045)	366405	47.3	47.3
32 1,2-Dichloropropane	63.00	10.102	10.026	(1.084)	522534	52.1	52.1
33 Dibromomethane	93.00	10.284	10.208	(1.104)	454383	50.2	50.2
34 Dichlorobromomethane	83.00	10.516	10.432	(1.129)	806343	49.6	49.6
* 36 cis-1,3-Dichloropropylene	75.00	11.210	11.134	(1.203)	677809	50.8	50.8
37 Methyl-iso-butyl ketone	43.00	11.475	11.374	(0.815)	651029	49.9	49.9
$ 38 Toluene-D8 (SURR)	98.00	11.657	11.573	(0.828)	946928	51.6	51.6
39 Toluene	91.00	11.757	11.681	(0.835)	1064141	50.4	50.4
40 trans-1,3-Dichloropropylene	75.00	12.096	12.012	(1.298)	550117	49.9	49.9
41 1,1,2-Trichloroethane	97.00	12.419	12.327	(1.333)	408989	48.6	48.6
42 Tetrachloroethylene	164.00	12.684	12.592	(0.901)	839043	105	105
43 1,3-Dichloropropane	76.00	12.701	12.609	(0.902)	705079	48.0	48.0
44 2-Hexanone	43.00	12.817	12.725	(0.910)	436544	51.0	51.0
45 Chlorodibromomethane	129.00	13.098	13.007	(1.406)	573736	48.8	48.8 (M)
46 Ethylene dibromide	107.00	13.314	13.222	(0.945)	635354	49.4	49.4
* 47 Chlorobenzene-d5 (ISTD)	117.00	14.083	13.991	(1.000)	780476	50.0	
48 Chlorobenzene	112.00	14.125	14.041	(1.003)	842258	50.4	50.4
49 1,1,1,2-Tetrachloroethane	133.00	14.258	14.166	(1.012)	456258	52.3	52.3
50 Ethylbenzene	106.00	14.291	14.207	(1.015)	385217	48.9	48.9
m+p-Xylenes	106.00	14.482	14.398	(1.028)	986791	102	102
o-Xylene	106.00	15.137	15.052	(1.075)	469813	50.4	50.4
Styrene	104.00	15.154	15.069	(1.076)	780483	50.6	50.6
54 Bromoform	173.00	15.461	15.384	(1.660)	539181	49.7	49.7
55 Isopropylbenzene	105.00	15.669	15.599	(1.113)	1367586	51.7	51.7
$ 56 Bromofluorobenzene (SURR)	95.00	15.910	15.840	(1.130)	831595	50.2	50.2
57 1,1,2,2-Tetrachloroethane	83.00	16.102	16.031	(1.143)	769902	48.7	48.7
58 1,2,3-Trichloropropane	75.00	16.169	16.106	(1.148)	661003	49.1	49.1
59 Bromobenzene	156.00	16.144	16.073	(1.146)	485204	51.0	51.0
60 n-Propylbenzene	91.00	16.260	16.198	(1.155)	1748251	52.7	52.7
61 o-Chlorotoluene	91.00	16.402	16.339	(1.165)	1340251	50.5	50.5
62 1,3,5-Trimethylbenzene	105.00	16.494	16.937	(1.171)	1054223	46.6	46.6 (M)
63 p-Chlorotoluene	91.00	16.544	16.489	(1.175)	1414807	48.6	48.6
64 tert-Butylbenzene	119.00	16.944	17.345	(1.203)	1160225	47.3	47.3 (M)
65 1,2,4-Trimethylbenzene	105.00	17.002	16.937	(1.207)	1357168	60.0	60.0
66 sec-Butylbenzene	105.00	17.227	17.162	(1.223)	1552020	49.1	49.1
67 4-Isopropyltoluene	119.00	17.402	17.345	(1.236)	1338593	54.5	54.5
68 1,3-Dichlorobenzene	146.00	17.394	17.328	(1.235)	730281	50.7	50.7
69 1,4-Dichlorobenzene	146.00	17.511	17.445	(1.243)	912198	51.4	51.4
70 n-Butylbenzene	91.00	17.944	17.876	(1.274)	1450792	52.4	52.4
71 1,2-Dichlorobenzene	146.00	18.011	17.943	(1.279)	774739	51.4	51.4
72 1,2-Dibromo-3-chloropropane	75.00	19.103	19.037	(1.356)	220469	46.5	46.5
73 1,2,4-Trichlorobenzene	180.00	20.436	20.353	(1.451)	704375	52.8	52.8
74 Hexachlorobutadiene	225.00	20.711	20.611	(1.471)	443591	51.8	51.8
75 Naphthalene	128.00	20.895	20.795	(1.484)	1209585	49.9	49.9
1,2,3-Trichlorobenzene	180.00	21.344	21.251	(1.516)	663766	51.4	51.4

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

0174 EPA SAMPLE NO.

CLJ78IW001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) WATER Lab Sample ID: JP2541V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: A5818

Level: (low/med) LOW Date Received: 01/19/96

% Moisture: not dec. N/A Date Analyzed: 01/23/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 2500.0

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

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	13000	U
74-83-9	Bromomethane	13000	U
75-01-4	Vinyl Chloride	13000	U
75-00-3	Chloroethane	13000	U
75-09-2	Methylene Chloride	13000	U
67-64-1	Acetone	25000	U
75-15-0	Carbon Disulfide	13000	U
75-35-4	1,1-Dichloroethene	13000	U
75-34-3	1,1-Dichloroethane	13000	U
540-59-0	1,2-Dichloroethene (total)	17000	
67-66-3	Chloroform	13000	U
107-06-2	1,2-Dichloroethane	13000	U
78-93-3	2-Butanone	13000	U
71-55-6	1,1,1-Trichloroethane	13000	U
56-23-5	Carbon Tetrachloride	13000	U
75-27-4	Bromodichloromethane	13000	U
78-87-5	1,2-Dichloropropane	13000	U
10061-01-5	cis-1,3-Dichloropropene	13000	U
79-01-6	Trichloroethene	13000	U
124-48-1	Dibromochloromethane	13000	U
79-00-5	1,1,2-Trichloroethane	13000	U
71-43-2	Benzene	13000	U
10061-02-6	trans-1,3-Dichloropropene	13000	U
75-25-2	Bromoform	13000	U
108-10-1	Methyl-iso-butyl ketone	25000	U
591-78-6	2-Hexanone	13000	U
127-18-4	Tetrachloroethylene	49000	
79-34-5	1,1,2,2-Tetrachloroethane	13000	U
108-88-3	Toluene	13000	U
108-90-7	Chlorobenzene	13000	U
100-41-4	Ethylbenzene	13000	U
100-42-5	Styrene	13000	U
1330-20-7	Xylene (total)	13000	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0175 EPA SAMPLE NO.

CLJ78IW001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

b Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) WATER Lab Sample ID: JP2541V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: A5818

Level: (low/med) LOW Date Received: 01/19/96

% Moisture: not dec. N/A Date Analyzed: 01/23/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 2500.0

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

Number TICs found: 0

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

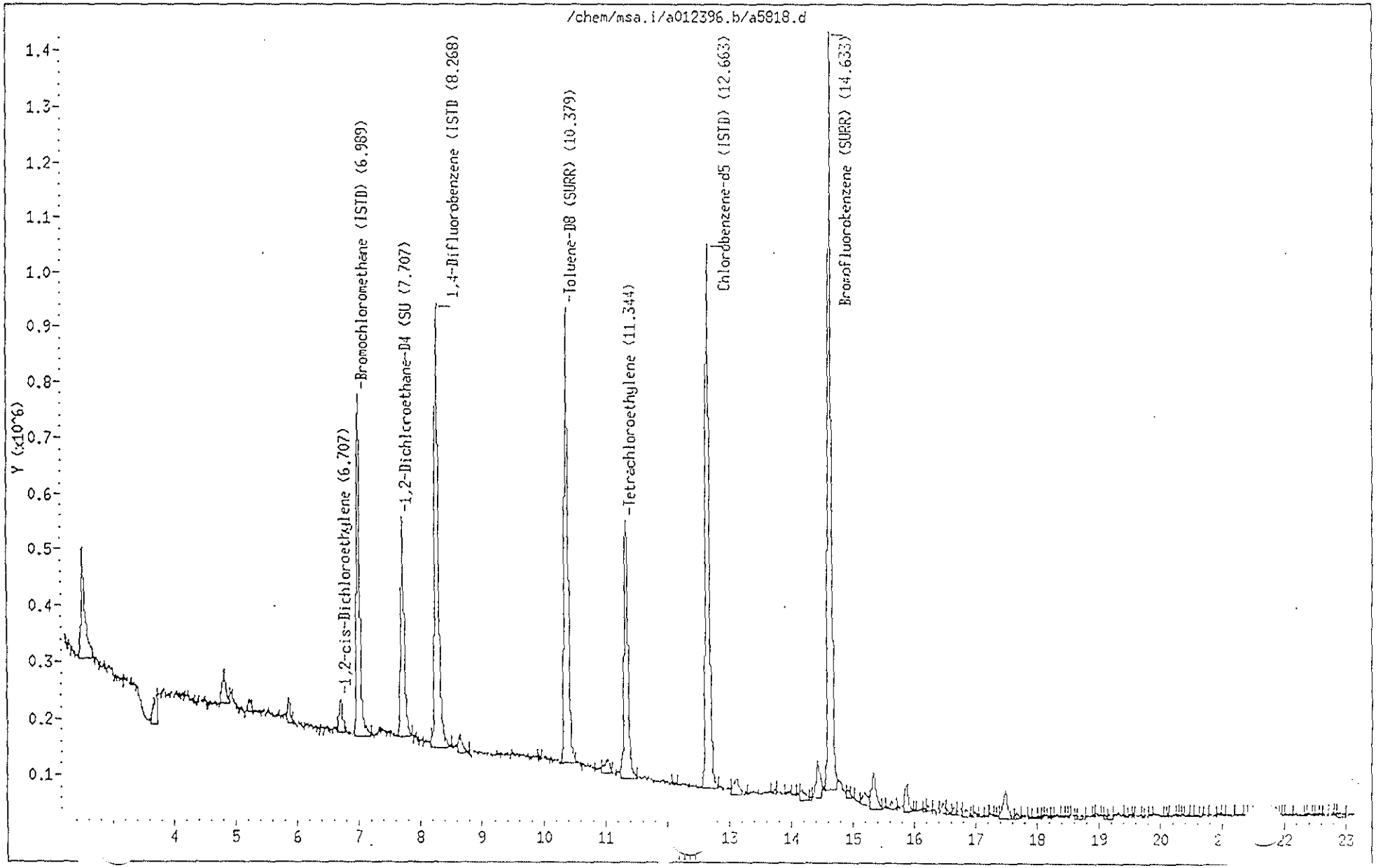
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0176

Data File: /chem/msa.i/a012396.b/a5818.d
Date : 23-JAN-96 11:14
Client ID: 17418n clj78iw001
Sample Info: 17418n clj78iw001 20ul/50ml = 2500x
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msa.i

Operator: jk
Column diameter: 0.53



Data File: /chem/msa.i/a012396.b/a5818.d
Report Date: 24-Jan-1996 11:37

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240 + Screen

Data file : /chem/msa.i/a012396.b/a5818.d
Lab Smp Id: Client Smp ID: 17418n clj78iw001
Inj Date : 23-JAN-96 11:14
Operator : jk Inst ID: msa.i
Smp Info : 17418n clj78iw001 20ul/50ml = 2500x
Misc Info : jp2541v,n1v4919,m2,5000,2500,5.0,5.0,960123,
Comment :
Method : /chem/msa.i/a012396.b/011996_ambia.m
Meth Date : 24-Jan-1996 11:22 glenn Quant Type: ISTD
Cal Date : 23-JAN-96 07:25 Cal File: a5812.d
Als bottle: 6
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

MK 1/24/96

#590

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
1,2-cis-Dichloroethylene	96.00	6.699	6.665	(0.959)	47309	6.93	6.93
* [illegible] Bromochloromethane (ISTD)	128.00	6.989	6.976	(1.000)	282764	50.0	
$ 27 1,2-Dichloroethane-D4 (SURR)	65.00	7.707	7.696	(0.932)	563921	51.4	51.4
* 30 1,4-Difluorobenzene (ISTD)	114.00	8.268	8.249	(1.000)	1203205	50.0	
$ 38 Toluene-D8 (SURR)	98.00	10.379	10.363	(0.820)	1170316	52.1	52.1
42 Tetrachloroethylene	164.00	11.344	11.298	(0.895)	226482	19.6	19.6
* 47 Chlorobenzene-d5 (ISTD)	117.00	12.663	12.641	(1.000)	1063680	50.0	
$ 55 Bromofluorobenzene (SURR)	95.00	14.633	14.622	(1.155)	939745	53.4	53.4

6.93

Data File: /chem/msa.i/a012396.b/a5818.d

Date : 23-JAN-96 11:14

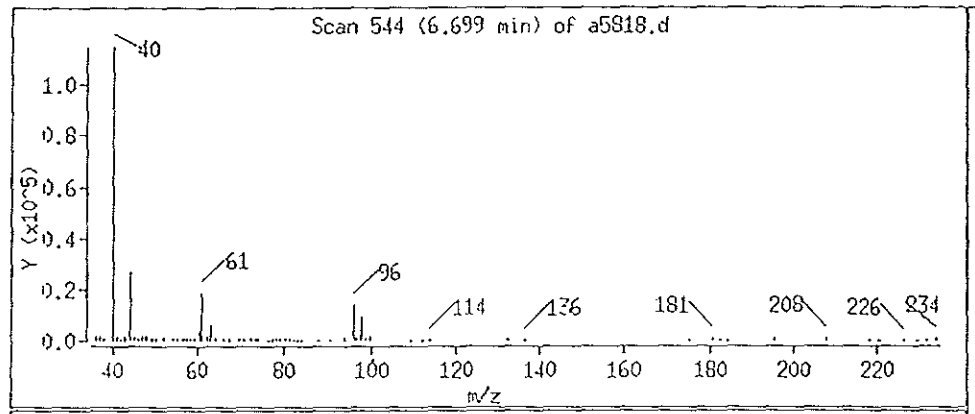
Client ID: 17418n clj78iw001 Instrument: msa.i

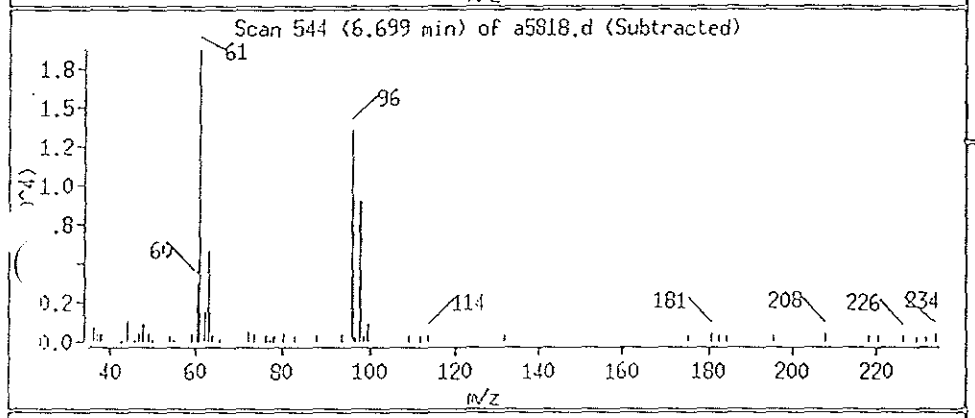
Sample Info: 17418n clj78iw001 20ul/50ml = 2500x

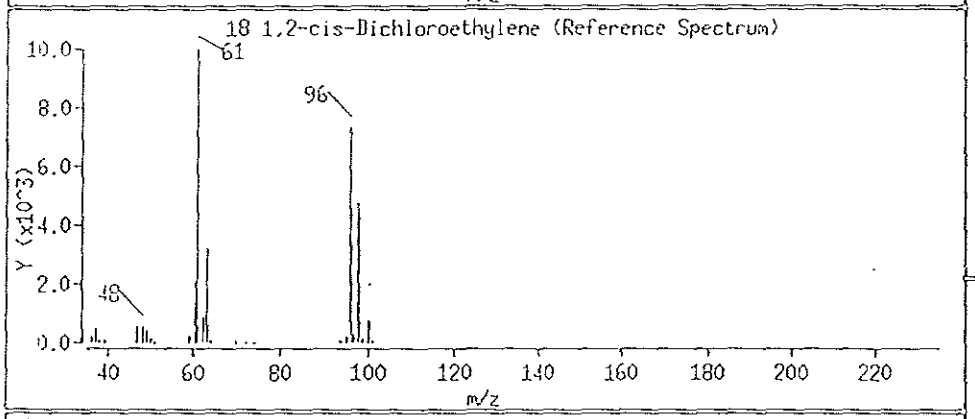
Purge Volume: 1.0 Operator: jk

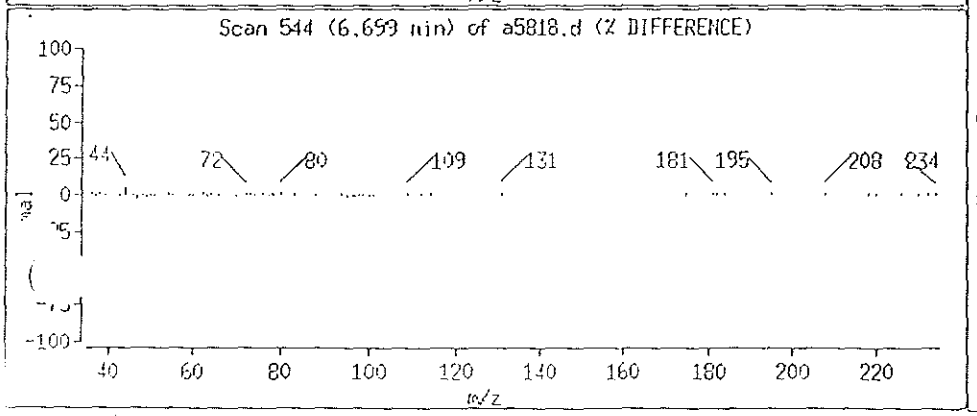
Column phase: J&W DB_624 Column diameter: 0.53

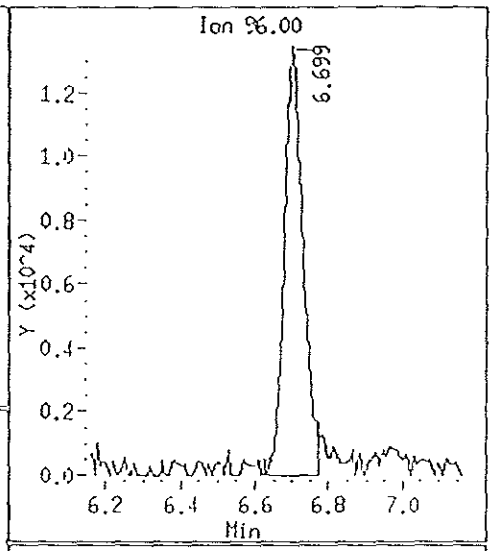
18 1,2-cis-Dichlorcethylene

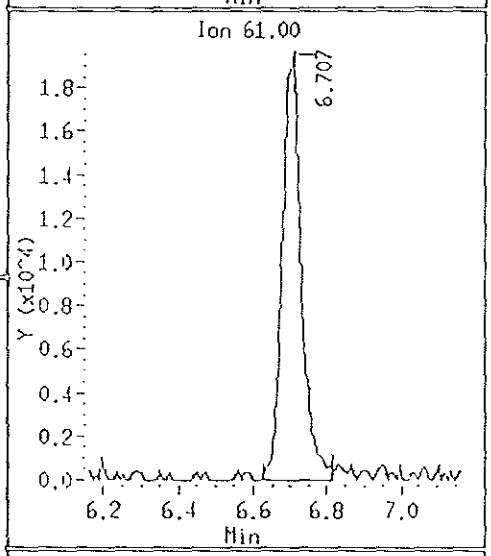


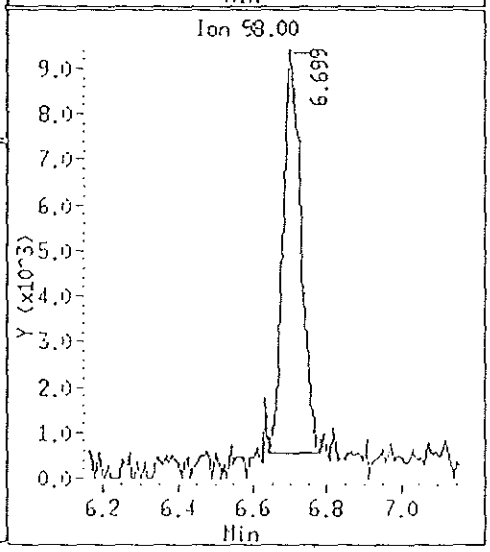












Data File: /chem/msa.i/a012396.b/a5818.d

Date : 23-JAN-96 11:14

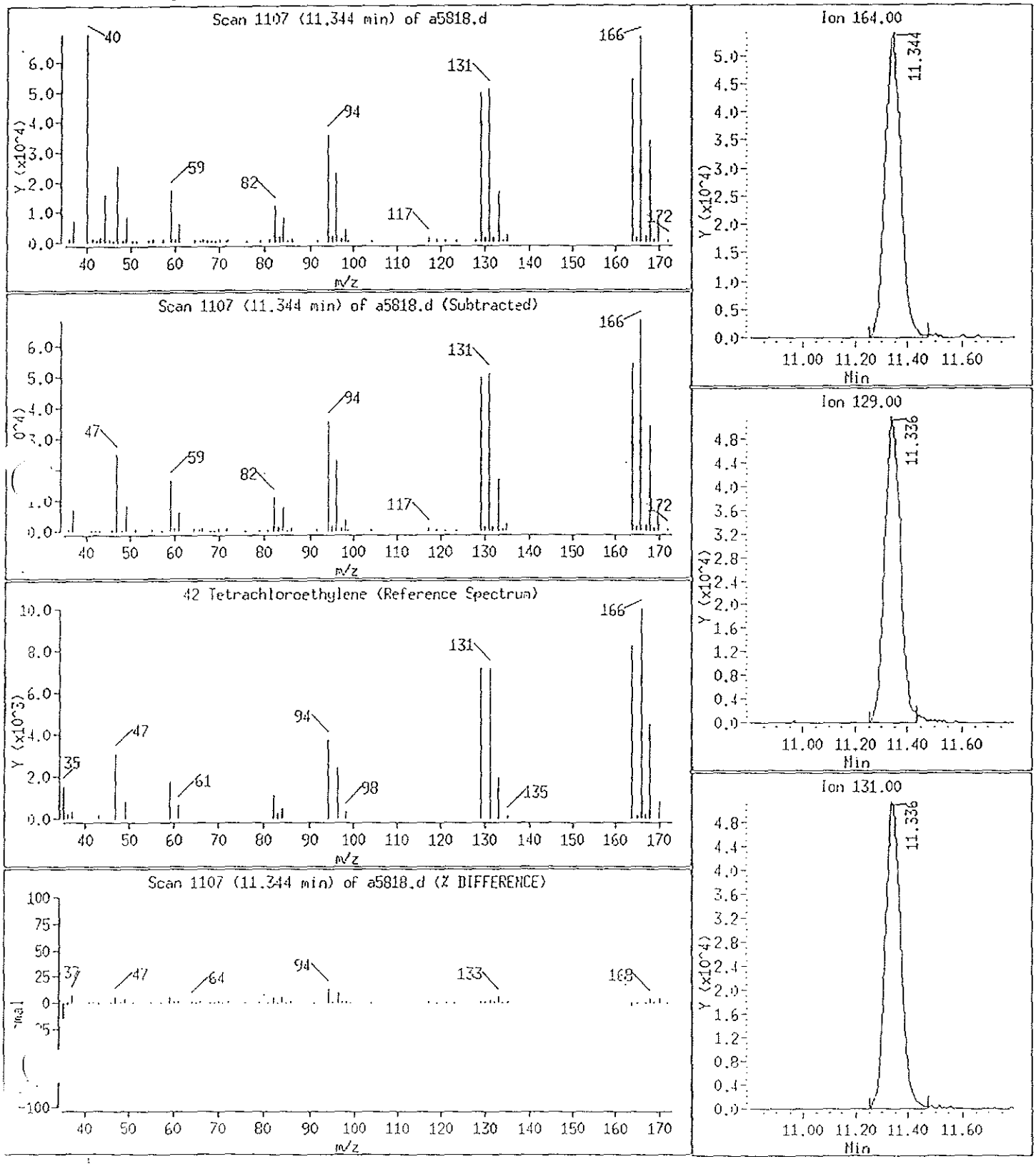
Client ID: 17418n clj78iw001 Instrument: msa.i

Sample Info: 17418n clj78iw001 20ul/50ml = 2500:c

Purge Volume: 1.0 Operator: jk

Column phase: J&W DB_624 Column diameter: 0.53

42 Tetrachloroethylene



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0180

CLJ78IW001MS

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) WATER Lab Sample ID: JP2541VS

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: A5819

Level: (low/med) LOW Date Received: 01/19/96

% Moisture: not dec. N/A Date Analyzed: 01/23/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 2500.0

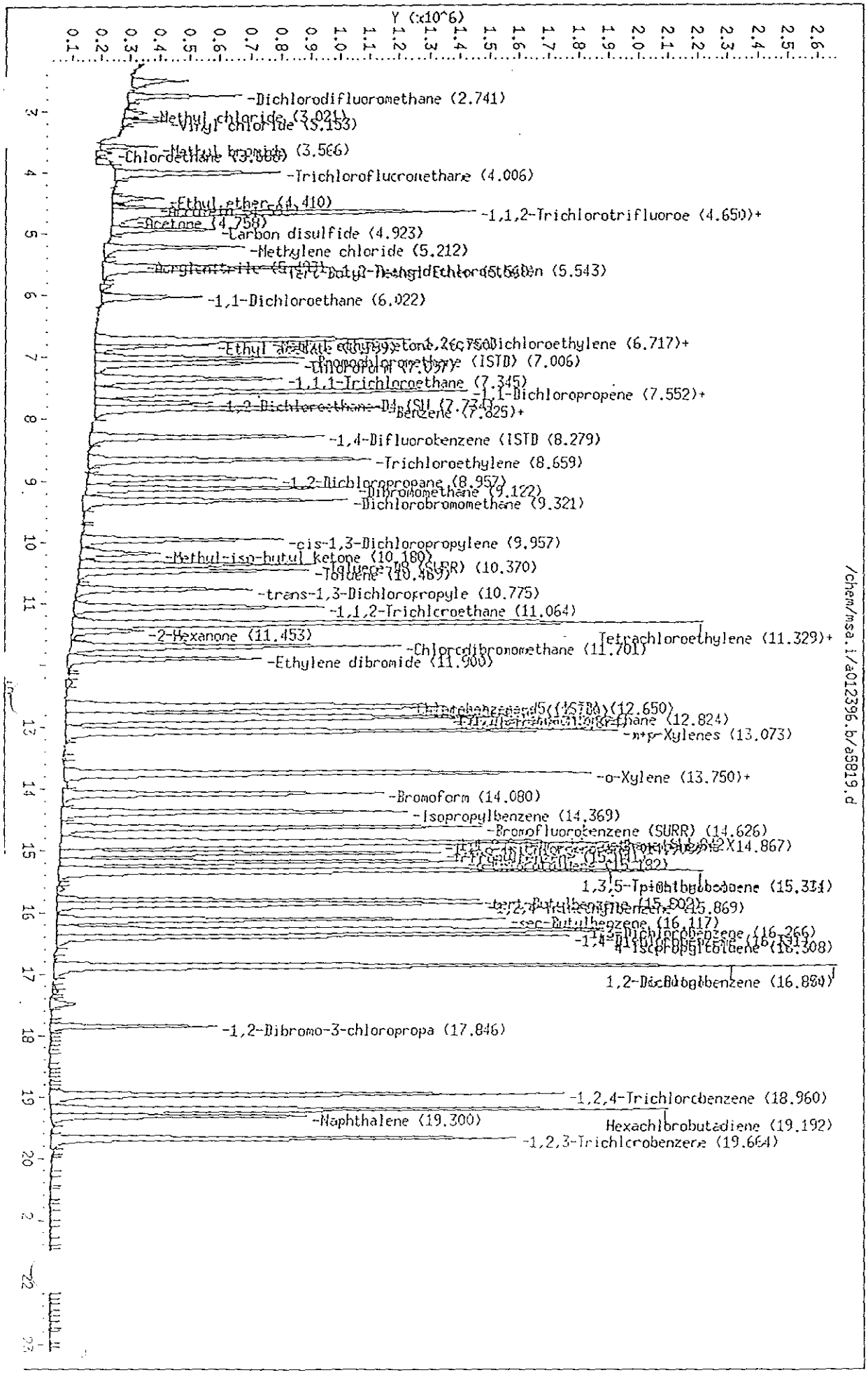
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	120000	
74-83-9	Bromomethane	130000	
75-01-4	Vinyl Chloride	110000	
75-00-3	Chloroethane	120000	
75-09-2	Methylene Chloride	110000	
67-64-1	Acetone	110000	
75-15-0	Carbon Disulfide	110000	
75-35-4	1,1-Dichloroethene	110000	
75-34-3	1,1-Dichloroethane	110000	
540-59-0	1,2-Dichloroethene (total)	250000	
67-66-3	Chloroform	140000	
107-06-2	1,2-Dichloroethane	160000	
78-93-3	2-Butanone	160000	
71-55-6	1,1,1-Trichloroethane	150000	
56-23-5	Carbon Tetrachloride	150000	
75-27-4	Bromodichloromethane	120000	
78-87-5	1,2-Dichloropropane	130000	
10061-01-5	cis-1,3-Dichloropropene	120000	
79-01-6	Trichloroethene	130000	
124-48-1	Dibromochloromethane	120000	
79-00-5	1,1,2-Trichloroethane	120000	
71-43-2	Benzene	170000	
10061-02-6	trans-1,3-Dichloropropene	110000	
75-25-2	Bromoform	120000	
108-10-1	Methyl-iso-butyl ketone	120000	
591-78-6	2-Hexanone	120000	
127-18-4	Tetrachloroethylene	170000	
79-34-5	1,1,2,2-Tetrachloroethane	110000	
108-88-3	Toluene	120000	
108-90-7	Chlorobenzene	120000	
100-41-4	Ethylbenzene	120000	
100-42-5	Styrene	120000	
1330-20-7	Xylene (total)	370000	

Data File: /chem/msa.i/a012396.b/a5819.d
Date : 23-JAN-96 11:49
Client ID: n1v4919 mtx spk
Sample Info: 17418n clj78iw001 ms 20ul/50ml (n1v4919 mtx)
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msa.i
Operator: jk
Column diameter: 0.53



Data File: /chem/msa.i/a012396.b/a5819.d
Report Date: 24-Jan-1996 11:11

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msa.i/a012396.b/a5819.d
Lab Smp Id: Client Smp ID: n1v4919 mtx spk
Inj Date : 23-JAN-96 11:49
Operator : jk Inst ID: msa.i
Smp Info : 17418n clj78iw001 ms 20ul/50ml (n1v4919 mtx)
Misc Info : jp2541vs,n1v4919,m2,5000,2500,5.0,5.0,960123
Comment :
Method : /chem/msa.i/a012396.b/011996_ambia.m
Meth Date : 24-Jan-1996 11:06 Quant Type: ISTD
Cal Date : 23-JAN-96 07:25 Cal File: a5812.d
Als bottle: 7
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

MK 1/24/96

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
1 Dichlorodifluoromethane	85.00	2.741	2.732	(0.391)	643072	45.1	45.1
[illegible]thyl chloride	50.00	3.013	3.013	(0.430)	237514	46.8	46.8
3 Vinyl chloride	62.00	3.153	3.144	(0.450)	258464	45.2	45.2
4 Methyl bromide	94.00	3.566	3.557	(0.509)	202293	51.1	51.1
5 Chloroethane	64.00	3.674	3.665	(0.524)	73210	47.7	47.7
6 Trichlorofluoromethane	101.00	4.006	3.997	(0.572)	985390	46.3	46.3
7 Ethyl ether	59.00	4.402	4.402	(0.628)	189817	44.3	44.3
8 Acrolein	56.00	4.551	4.550	(0.650)	218128	44.2	44.2
9 1,1,2-Trichlorotrifluoroethan	101.00	4.642	4.633	(0.663)	766373	45.3	45.3
10 1,1-Dichloroethylene	96.00	4.650	4.641	(0.664)	320051	45.3	45.3
11 Acetone	43.00	4.758	4.749	(0.679)	88455	45.0	45.0
12 Carbon disulfide	76.00	4.923	4.922	(0.703)	871959	44.6	44.6
13 Methylene chloride	84.00	5.212	5.203	(0.744)	365509	44.5	44.5
14 Acrylonitrile	53.00	5.493	5.484	(0.784)	90759	47.2	47.2
15 1,2-Trans-dichloroethylene	96.00	5.543	5.525	(0.791)	351597	42.0	42.0
16 Tert-Butyl Methyl Ether	73.00	5.568	5.558	(0.795)	762865	41.4	41.4
17 1,1-Dichloroethane	63.00	6.022	6.004	(0.860)	644793	44.1	44.1
18 1,2-cis-Dichloroethylene	96.00	6.717	6.665	(0.959)	459723	56.4	56.4
19 2,2-Dichloropropane	77.00	6.717	6.665	(0.959)	609884	53.1	53.1
20 Methyl ethyl ketone	72.00	6.750	6.699	(0.814)	40446	62.5	62.5(Q)
21 Ethyl acetate	43.00	6.799	6.748	(0.971)	974969	54.2	54.2
22 Bromochloromethane (ISTD)	128.00	7.006	6.976	(1.000)	337377	50.0	
23 Chloroform	83.00	7.097	7.030	(1.013)	998254	54.4	54.4
24 1,1,1-Trichloroethane	97.00	7.353	7.271	(0.887)	937022	61.9	61.9
1,1-Dichloropropene	75.00	7.552	7.470	(0.911)	589210	62.3	62.3
Carbon tetrachloride	117.00	7.560	7.487	(0.912)	952453	59.8	59.8
1[illegible]chloroethane-D4 (SURR)	65.00	7.734	7.696	(0.933)	541558	48.5	48.5
Benzene	78.00	7.816	7.735	(0.943)	924350	68.1	68.1
1,2-Dichloroethane	62.00	7.833	7.736	(1.118)	659790	62.0	62.0

Data File: /chem/msa.i/a012396.b/a5819.d
Report Date: 24-Jan-1996 11:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
*	30 1,4-Difluorobenzene (ISTD)	114.00	8.287	8.249	(1.000)	1225126	50.0	
	31 Trichloroethylene	130.00	8.659	8.580	(1.045)	630988	51.6	51.6
	32 1,2-Dichloropropane	63.00	8.957	8.894	(1.081)	495978	50.4	50.4
	33 Dibromomethane	93.00	9.122	9.059	(1.101)	665977	48.3	48.3
	34 Dichlorobromomethane	83.00	9.329	9.266	(1.126)	1126442	49.2	49.2
	36 cis-1,3-Dichloropropylene	75.00	9.957	9.910	(1.201)	754311	47.7	47.7
	37 Methyl-iso-butyl ketone	43.00	10.188	10.149	(0.805)	485558	48.2	48.2
S	38 Toluene-D8 (SURR)	98.00	10.370	10.363	(0.820)	1123202	50.1	50.1
	39 Toluene	91.00	10.469	10.430	(0.828)	1145192	48.5	48.5
	40 trans-1,3-Dichloropropylene	75.00	10.775	10.736	(1.300)	618258	44.2	44.2
	41 1,1,2-Trichloroethane	97.00	11.064	11.034	(1.335)	516755	47.0	47.0
	42 Tetrachloroethylene	164.00	11.329	11.298	(0.896)	772093	66.9	66.9
	43 1,3-Dichloropropane	76.00	11.329	11.307	(0.896)	717129	49.6	49.6
	44 2-Hexanone	43.00	11.453	11.439	(0.905)	357205	47.9	47.9
	45 Chlorodibromomethane	129.00	11.701	11.679	(1.412)	1206980	46.3	46.3
	46 Ethylene dibromide	107.00	11.900	11.869	(0.941)	887322	48.1	48.1
*	47 Chlorobenzene-d5 (ISTD)	117.00	12.650	12.641	(1.000)	1066826	50.0	
	48 Chlorobenzene	112.00	12.700	12.678	(1.004)	1053543	49.9	49.9
	49 1,1,1,2-Tetrachloroethane	133.00	12.824	12.810	(1.014)	672724	50.4	50.4
	50 Ethylbenzene	106.00	12.874	12.852	(1.018)	455627	49.8	49.8
	51 m+p-Xylenes	106.00	13.073	13.051	(1.033)	1042574	97.0	97.0
	52 o-Xylene	106.00	13.741	13.728	(1.086)	532738	50.4	50.4
	[illegible]rene	104.00	13.758	13.744	(1.088)	940916	48.8	48.8
	54 Bromoform	173.00	14.080	14.067	(1.693)	1011769	46.2	46.2
	55 Isopropylbenzene	105.00	14.378	14.356	(1.137)	1683191	49.8	49.8
	56 Bromofluorobenzene (SURR)	95.00	14.626	14.622	(1.156)	955451	54.4	54.4
	57 1,1,2,2-Tetrachloroethane	83.00	14.842	14.828	(1.173)	833444	42.3	42.3
	58 1,2,3-Trichloropropane	75.00	14.908	14.894	(1.178)	729498	48.7	48.7
	59 Bromobenzene	156.00	14.867	14.861	(1.175)	706210	50.0	50.0
	60 n-Propylbenzene	91.00	15.041	15.035	(1.189)	2119733	51.1	51.1
	61 o-Chlorotoluene	91.00	15.182	15.168	(1.200)	1506387	52.2	52.2
	62 1,3,5-Trimethylbenzene	105.00	15.314	15.309	(1.211)	1439413	50.7	50.7
	63 p-Chlorotoluene	91.00	15.339	15.334	(1.213)	1629597	50.4	50.4
	64 tert-Butylbenzene	119.00	15.794	15.789	(1.249)	1498821	49.2	49.2
	65 1,2,4-Trimethylbenzene	105.00	15.869	15.863	(1.254)	1518801	52.0	52.0
	66 sec-Butylbenzene	105.00	16.117	16.111	(1.274)	2056603	50.6	50.6
	67 4-Isopropyltoluene	119.00	16.316	16.310	(1.292)	1671577	49.6	49.6
	68 1,3-Dichlorobenzene	146.00	16.266	16.261	(1.256)	1102965	49.5	49.5
	69 1,4-Dichlorobenzene	146.00	16.391	16.385	(1.296)	1163405	49.9	49.9
	70 n-Butylbenzene	91.00	16.854	16.849	(1.332)	1686497	50.2	50.2
	1,2-Dichlorobenzene	146.00	16.879	16.874	(1.334)	1071334	50.2	50.2
	1,2-Dibromo-3-chloropropane	75.00	17.846	17.849	(1.411)	249175	40.4	40.4
	1,2,4-Trichlorobenzene	180.00	18.960	18.964	(1.499)	994178	48.8	48.8
	Hexachlorobutadiene	225.00	19.200	19.195	(1.518)	846379	48.4	48.4
	Naphthalene	128.00	19.309	19.305	(1.526)	1198901	43.9	43.9
	1,2,3-Trichlorobenzene	180.00	19.673	19.669	(1.555)	951029	48.7	48.7

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET 0184

EPA SAMPLE NO.

CLJ78CS002MSD

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: _____ Case No.: 17418N SAS No.: _____ SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2492VR

Sample wt/vol: 2.73 (g/mL) G Lab File ID: C7989

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: not dec. 15 Date Analyzed: 01/22/96

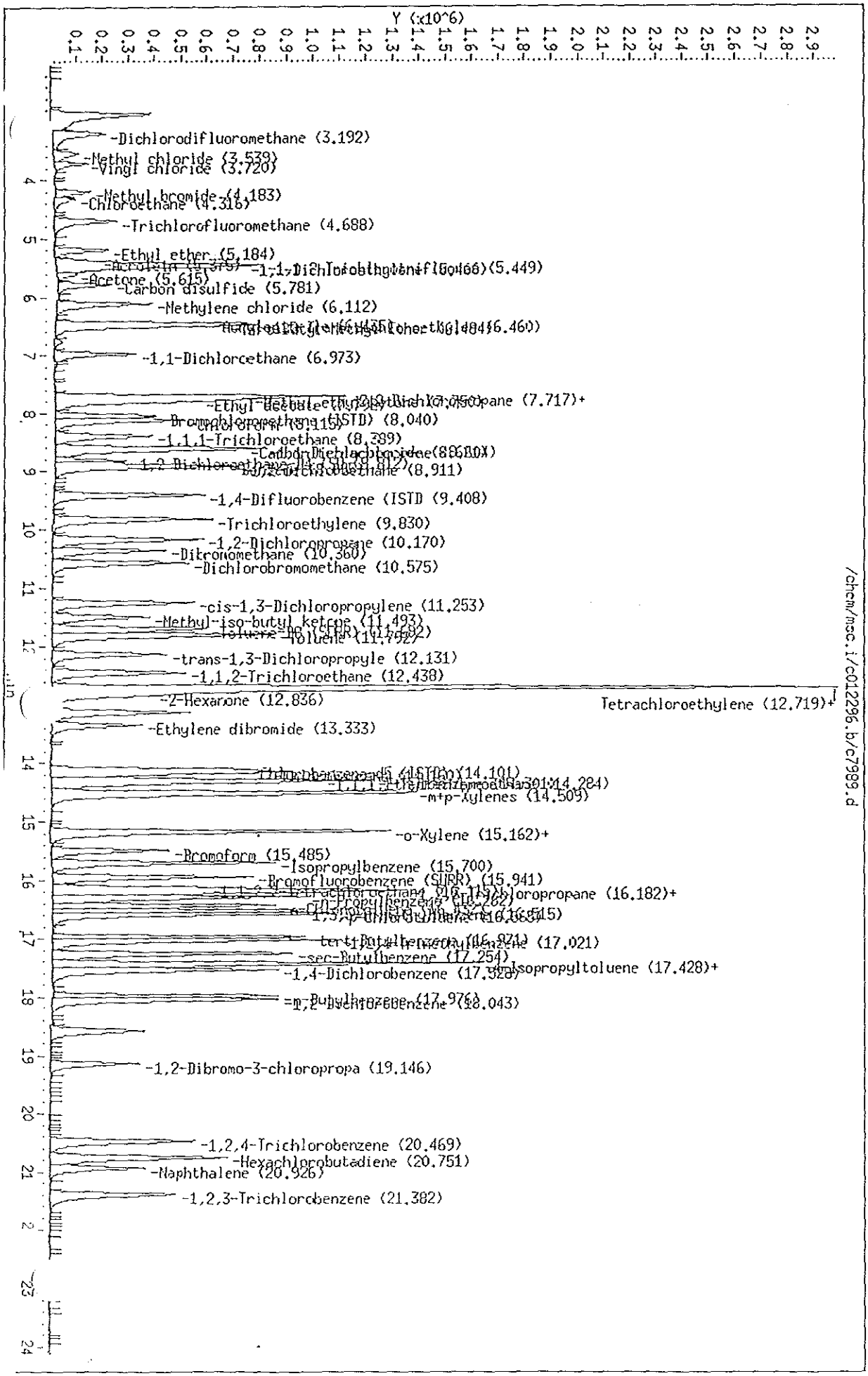
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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	120	
74-83-9	Bromomethane	110	
75-01-4	Vinyl Chloride	120	
75-00-3	Chloroethane	120	
75-09-2	Methylene Chloride	120	
67-64-1	Acetone	98	
75-15-0	Carbon Disulfide	110	
75-35-4	1,1-Dichloroethene	120	
75-34-3	1,1-Dichloroethane	110	
540-59-0	1,2-Dichloroethene (total)	310	
67-66-3	Chloroform	110	
107-06-2	1,2-Dichloroethane	110	
78-93-3	2-Butanone	71	
71-55-6	1,1,1-Trichloroethane	97	
56-23-5	Carbon Tetrachloride	100	
75-27-4	Bromodichloromethane	96	
78-87-5	1,2-Dichloropropane	100	
10061-01-5	cis-1,3-Dichloropropene	99	
79-01-6	Trichloroethene	120	
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	91	
71-43-2	Benzene	100	
10061-02-6	trans-1,3-Dichloropropene	92	
75-25-2	Bromoform	83	
108-10-1	Methyl-iso-butyl ketone	80	
591-78-6	2-Hexanone	72	
127-18-4	Tetrachloroethylene	440	
79-34-5	1,1,2,2-Tetrachloroethane	90	
108-88-3	Toluene	150	
108-90-7	Chlorobenzene	100	
100-41-4	Ethylbenzene	110	
100-42-5	Styrene	100	
1330-20-7	Xylene (total)	320	

Data File: /chem/msc.i/c012296.b/c7989.d
Date : 22-JAN-96 09:28
Client ID: n2v4913 mtx dup
Sample Info: n2v4913 mtx spk dup (10)
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i
Operator: jk
Column diameter: 0.53



OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msc.i/c012296.b/c7989.d
Lab Smp Id: Client Smp ID: n2v4913 mtx dup
Inj Date : 22-JAN-96 09:28
Operator : jk Inst ID: msc.i
Smp Info : n2v4913 mtx spk dup (10)
Misc Info : jp2492vr,n2v4913,m2,5000,1,2.73,5.00,960122
Comment :
Method : /chem/msc.i/c012296.b/012196_heatc.m
Meth Date : 22-Jan-1996 10:10 glenn Quant Type: ISTD
Cal Date : 22-JAN-96 00:58 Cal File: c7974.d
Als bottle: 10
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

MK 1/22/96

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
Dichlorodifluoromethane	85.00	3.192	3.159	(0.397)	526070	54.8	54.8
ethyl chloride	50.00	3.539	3.531	(0.440)	339165	57.1	57.1
inyl chloride	62.00	3.720	3.680	(0.463)	315197	54.5	54.5
4 Methyl bromide	94.00	4.183	4.159	(0.520)	201155	52.4	52.4
5 Chloroethane	64.00	4.316	4.283	(0.537)	128772	57.2	57.2
6 Trichlorofluoromethane	101.00	4.680	4.615	(0.582)	602287	77.8	77.8
7 Ethyl ether	59.00	5.184	5.145	(0.645)	246688	49.6	49.6
8 Acrolein	56.00	5.375	5.335	(0.668)	232610	30.4	30.4
9 1,1,2-Trichlorotrifluoroethan	101.00	5.441	5.369	(0.677)	584429	52.4	52.4
10 1,1-Dichloroethylene	96.00	5.466	5.394	(0.680)	290250	54.6	54.6
11 Acetone	43.00	5.615	5.609	(0.698)	216815	45.1	45.1
12 Carbon disulfide	76.00	5.781	5.717	(0.719)	755761	53.0	53.0
13 Methylene chloride	84.00	6.112	6.064	(0.760)	345311	54.0	54.0
14 Acrylonitrile	53.00	6.435	6.428	(0.800)	107278	34.3	34.3(Q)
15 1,2-Trans-dichloroethylene	96.00	6.451	6.403	(0.802)	315896	52.6	52.6
16 Tert-Butyl Methyl Ether	73.00	6.484	6.470	(0.806)	828585	49.8	49.8
17 1,1-Dichloroethane	63.00	6.973	6.925	(0.867)	711656	52.5	52.5
18 1,2-cis-Dichloroethylene	96.00	7.709	7.661	(0.959)	582076	91.1	91.1(QM)
19 2,2-Dichloropropane	77.00	7.717	7.661	(0.960)	495057	57.9	57.9
20 Methyl ethyl ketone	72.00	7.750	7.711	(0.824)	45935	32.9	32.9(Q)
21 Ethyl acetate	43.00	7.792	7.752	(0.969)	1417641	34.7	34.7(Q)
22 Bromochloromethane (ISTD)	128.00	8.040	7.976	(1.000)	211584	50.0	
23 Chloroform	83.00	8.123	8.067	(1.010)	711783	51.5	51.5
24 1,1,1-Trichloroethane	97.00	8.389	8.324	(0.892)	535279	44.9	44.9
25 1,1-Dichloropropene	75.00	8.604	8.532	(0.915)	497605	46.5	46.5
Carbon tetrachloride	117.00	8.621	8.549	(0.916)	475794	46.1	46.1
2-Dichloroethane-D4 (SURR)	65.00	8.812	8.756	(1.096)	461745	52.0	52.0
2 izene	78.00	8.895	8.831	(0.945)	743969	46.1	46.1
29 1,2-Dichloroethane	62.00	8.919	8.856	(1.109)	540505	49.3	49.3

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 30 1,4-Difluorobenzene (ISTD)	114.00	9.408	9.328	(1.000)	915842	50.0	
31 Trichloroethylene	130.00	9.830	9.750	(1.045)	463661	53.9	53.9
32 1,2-Dichloropropane	63.00	10.170	10.106	(1.081)	507080	46.8	46.8
33 Dibromomethane	93.00	10.352	10.297	(1.100)	443326	42.7	42.7
34 Dichlorobromomethane	83.00	10.575	10.520	(1.124)	762061	44.5	44.5
36 cis-1,3-Dichloropropylene	75.00	11.253	11.198	(1.196)	623031	45.6	45.6
37 Methyl-iso-butyl ketone	43.00	11.493	11.455	(0.815)	791284	37.1	37.1
S 38 Toluene-D8 (SURR)	98.00	11.692	11.637	(0.829)	881860	54.2	54.2
39 Toluene	91.00	11.800	11.754	(0.837)	1288192	67.7	67.7
40 trans-1,3-Dichloropropylene	75.00	12.131	12.077	(1.289)	496993	42.4	42.4
41 1,1,2-Trichloroethane	97.00	12.438	12.400	(1.322)	391452	42.0	42.0
42 Tetrachloroethylene	164.00	12.711	12.665	(0.901)	1514807	205	205(A)
43 1,3-Dichloropropane	76.00	12.719	12.690	(0.902)	643951	46.0	46.0
44 2-Hexanone	43.00	12.836	12.806	(0.910)	556097	33.0	33.0
46 Ethylene dibromide	107.00	13.333	13.303	(0.946)	603885	46.2	46.2
* 47 Chlorobenzene-d5 (ISTD)	117.00	14.101	14.072	(1.000)	718853	50.0	
48 Chlorobenzene	112.00	14.160	14.122	(1.004)	749972	48.2	48.2
49 1,1,1,2-Tetrachloroethane	133.00	14.284	14.255	(1.013)	418864	51.8	51.8
50 Ethylbenzene	106.00	14.309	14.288	(1.015)	366741	50.9	50.9
51 m+p-Xylenes	106.00	14.509	14.479	(1.029)	899934	100	100
o-Xylene	106.00	15.154	15.125	(1.075)	424319	49.6	49.6
Styrene	104.00	15.170	15.150	(1.076)	673528	46.4	46.4
Bromoform	173.00	15.477	15.464	(1.645)	510428	38.4	38.4
55 Isopropylbenzene	105.00	15.700	15.672	(1.113)	1235399	50.8	50.8
S 56 Bromofluorobenzene (SURR)	95.00	15.941	15.921	(1.130)	733318	48.8	48.8
57 1,1,2,2-Tetrachloroethane	83.00	16.115	16.103	(1.143)	750095	41.4	41.4
58 1,2,3-Trichloropropane	75.00	16.190	16.170	(1.148)	645537	40.5	40.5
59 Bromobenzene	156.00	16.174	16.153	(1.147)	419187	46.9	46.9
60 n-Propylbenzene	91.00	16.282	16.262	(1.155)	1522918	48.7	48.7
61 o-Chlorotoluene	91.00	16.432	16.412	(1.165)	1168451	47.9	47.9
62 1,3,5-Trimethylbenzene	105.00	16.515	17.001	(1.171)	1002756	47.9	47.9(M)
63 p-Chlorotoluene	91.00	16.573	16.553	(1.175)	1193259	44.4	44.4
64 tert-Butylbenzene	119.00	16.971	17.409	(1.203)	1030251	44.1	44.1(M)
65 1,2,4-Trimethylbenzene	105.00	17.029	17.001	(1.208)	1005254	48.1	48.1
66 sec-Butylbenzene	105.00	17.254	17.226	(1.224)	1326705	46.7	46.7
67 4-Isopropyltoluene	119.00	17.428	17.409	(1.236)	1116586	47.8	47.8
68 1,3-Dichlorobenzene	146.00	17.428	17.400	(1.236)	594578	42.8	42.8
69 1,4-Dichlorobenzene	146.00	17.537	17.517	(1.244)	714405	42.2	42.2
70 n-Butylbenzene	91.00	17.968	17.949	(1.274)	1158557	45.8	45.8
71 1,2-Dichlorobenzene	146.00	18.043	18.024	(1.280)	607521	42.4	42.4
72 1,2-Dibromo-3-chloropropane	75.00	19.146	19.117	(1.358)	221594	30.9	30.9
73 1,2,4-Trichlorobenzene	180.00	20.469	20.441	(1.452)	427458	32.8	32.8
74 Hexachlorobutadiene	225.00	20.760	20.725	(1.472)	259846	32.2	32.2
75 Naphthalene	128.00	20.926	20.891	(1.484)	681780	24.0	24.0
76 1,2,3-Trichlorobenzene	180.00	21.382	21.348	(1.516)	396615	30.7	30.7

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

0188 EPA SAMPLE NO.

CLJ78CS004MSD

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2494VR

Sample wt/vol: ~~2.19~~ 4.37 (g/mL) G Lab File ID: C7987

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: not dec. 17 Date Analyzed: 01/22/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 250.0

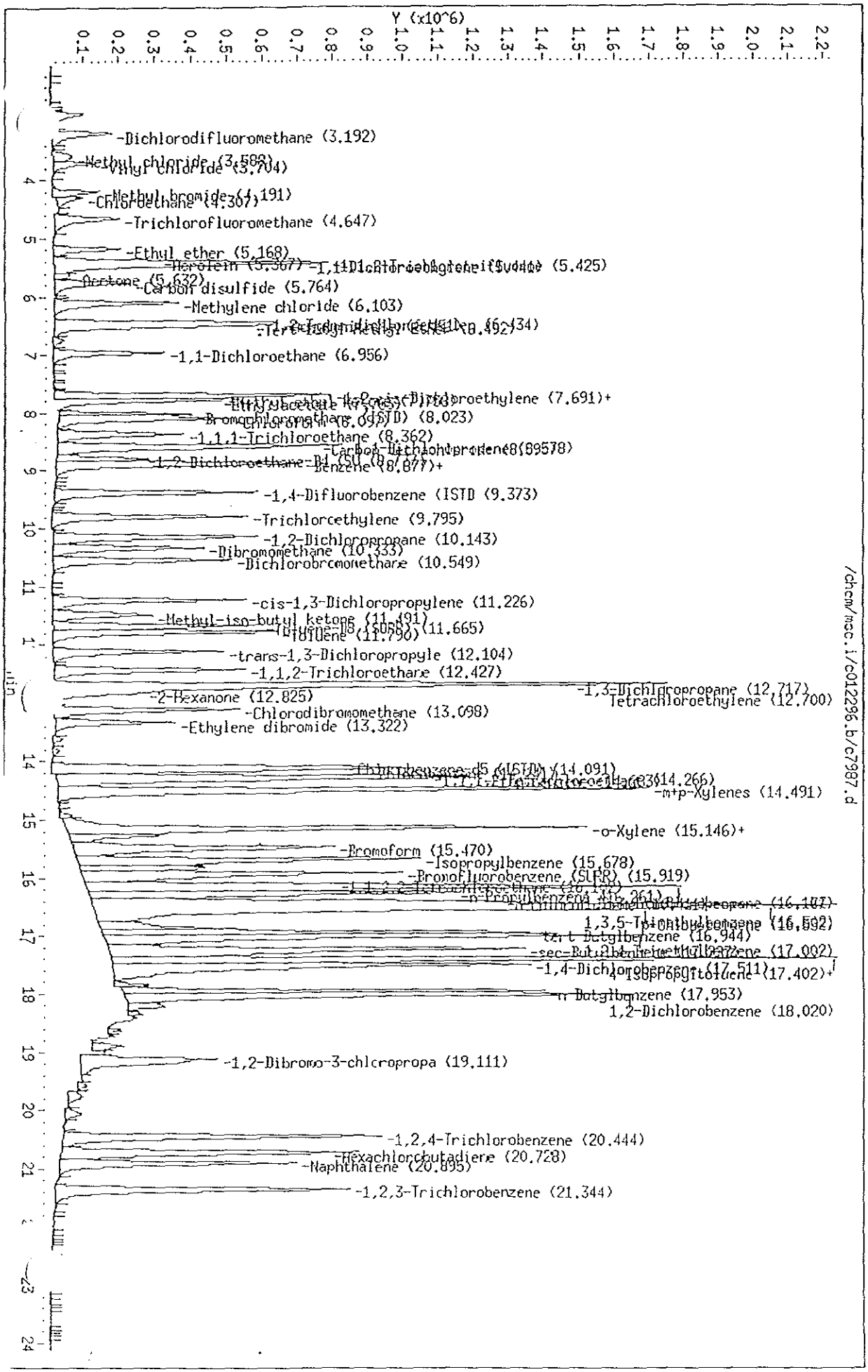
Soil Extract Volume: ~~5000~~ 10000 (uL) Soil Aliquot Volume: 20.0 (uL)

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	39000	
74-83-9	Bromomethane	32000	
75-01-4	Vinyl Chloride	37000	
75-00-3	Chloroethane	33000	
75-09-2	Methylene Chloride	35000	
67-64-1	Acetone	38000	
75-15-0	Carbon Disulfide	35000	
75-35-4	1,1-Dichloroethene	34000	
75-34-3	1,1-Dichloroethane	37000	
540-59-0	1,2-Dichloroethene (total)	74000	
67-66-3	Chloroform	36000	
107-06-2	1,2-Dichloroethane	35000	
78-93-3	2-Butanone	25000	
71-55-6	1,1,1-Trichloroethane	29000	
56-23-5	Carbon Tetrachloride	28000	
75-27-4	Bromodichloromethane	27000	
78-87-5	1,2-Dichloropropane	29000	
10061-01-5	cis-1,3-Dichloropropene	27000	
79-01-6	Trichloroethene	30000	
124-48-1	Dibromochloromethane	27000	
79-00-5	1,1,2-Trichloroethane	27000	
71-43-2	Benzene	29000	
10061-02-6	trans-1,3-Dichloropropene	27000	
75-25-2	Bromoform	28000	
108-10-1	Methyl-iso-butyl ketone	35000	
591-78-6	2-Hexanone	37000	
127-18-4	Tetrachloroethylene	70000	
79-34-5	1,1,2,2-Tetrachloroethane	35000	
108-88-3	Toluene	33000	
108-90-7	Chlorobenzene	34000	
100-41-4	Ethylbenzene	33000	
100-42-5	Styrene	35000	
1330-20-7	Xylene (total)	100000	

Data File: /chem/msc.i/c012296.b/c7987.d
Date : 22-JAN-96 08:23
Client ID: n2v4914 mtx dup
Sample Info: 17418n clj78cs004 msd
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i
Operator: jk
Column diameter: 0.53



OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msc.i/c012296.b/c7987.d
Lab Smp Id: Client Smp ID: n2v4914 mtx dup
Inj Date : 22-JAN-96 08:23
Operator : jk Inst ID: msc.i
Smp Info : 17418n · clj78cs004 msd
Misc Info : jp2494vr,n2v4914,m2,20,250,2.19,5.00,960121
Comment :
Method : /chem/msc.i/c012296.b/012196_ambic.m
Meth Date : 22-Jan-1996 08:31 glenn Quant Type: ISTD
Cal Date : 22-JAN-96 00:26 Cal File: c7973.d
Als bottle: 2
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

MK 1/22/96

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
Dichlorodifluoromethane	85.00	3.192	3.123	(0.398)	512738	52.2	52.2
Methyl chloride	50.00	3.588	3.487	(0.447)	332026	56.4	56.4
Vinyl chloride	62.00	3.712	3.644	(0.463)	299821	53.3	53.3
4 Methyl bromide	94.00	4.191	4.123	(0.522)	195376	47.2	47.2
5 Chloroethane	64.00	4.307	4.239	(0.537)	124116	48.3	48.3
6 Trichlorofluoromethane	101.00	4.656	4.628	(0.580)	487654	44.2	44.2
7 Ethyl ether	59.00	5.168	5.099	(0.644)	245514	53.5	53.5
8 Acrolein	56.00	5.367	5.289	(0.669)	264039	55.0	55.0
9 1,1,2-Trichlorotrifluoroethan	101.00	5.416	5.364	(0.675)	577638	52.8	52.8
10 1,1-Dichloroethylene	96.00	5.441	5.381	(0.678)	262803	49.9	49.9
11 Acetone	43.00	5.632	5.522	(0.702)	130542	55.2	55.2
12 Carbon disulfide	76.00	5.756	5.704	(0.717)	744266	51.2	51.2
13 Methylene chloride	84.00	6.103	6.026	(0.761)	333049	50.6	50.6
14 Acrylonitrile	53.00	6.443	6.349	(0.803)	110182	56.1	56.1
15 1,2-Trans-dichloroethylene	96.00	6.434	6.357	(0.802)	312908	53.5	53.5
16 Tert-Butyl Methyl Ether	73.00	6.492	6.398	(0.809)	818067	55.8	55.8
17 1,1-Dichloroethane	63.00	6.956	6.878	(0.867)	722523	53.8	53.8
18 1,2-cis-Dichloroethylene	96.00	7.691	7.581	(0.959)	341360	53.8	53.8
19 2,2-Dichloropropane	77.00	7.691	7.589	(0.959)	477573	54.9	54.9
20 Methyl ethyl ketone	72.00	7.758	7.606	(0.828)	29188	36.4	36.4(Q)
21 Ethyl acetate	43.00	7.783	7.656	(0.970)	1284483	54.3	54.3
22 Bromochloromethane (ISTD)	128.00	8.023	7.904	(1.000)	215180	50.0	
23 Chloroform	83.00	8.106	7.979	(1.010)	712859	52.5	52.5
24 1,1,1-Trichloroethane	97.00	8.362	8.253	(0.892)	542797	41.6	41.6
25 1,1-Dichloropropene	75.00	8.578	8.452	(0.915)	507427	44.0	44.0
Carbon tetrachloride	117.00	8.595	8.468	(0.917)	456508	40.9	40.9
S 1,2-Dichloroethane-D4 (SURR)	65.00	8.777	8.659	(1.094)	456154	53.3	53.3
enzene	78.00	8.868	8.750	(0.946)	757522	42.7	42.7
29 1,2-Dichloroethane	62.00	8.885	8.767	(1.107)	542913	51.5	51.5

Data File: /chem/msc.i/c012296.b/c7987.d
Report Date: 22-Jan-1996 09:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
*	30 1,4-Difluorobenzene (ISTD)	114.00	9.373	9.239	(1.000)	922725	50.0	
	31 Trichloroethylene	130.00	9.795	9.662	(1.045)	412745	44.3	44.3
	32 1,2-Dichloropropane	63.00	10.143	10.026	(1.082)	509531	42.2	42.2
	33 Dibromomethane	93.00	10.325	10.208	(1.102)	438781	40.2	40.2
	34 Dichlorobromomethane	83.00	10.549	10.432	(1.125)	784156	40.0	40.0
	36 cis-1,3-Dichloropropylene	75.00	11.226	11.134	(1.198)	640939	39.9	39.9
	37 Methyl-iso-butyl ketone	43.00	11.491	11.374	(0.815)	646521	50.9	50.9
S	38 Toluene-D8 (SURR)	98.00	11.665	11.573	(0.828)	868786	48.6	48.6
	39 Toluene	91.00	11.790	11.681	(0.837)	992691	48.3	48.3
	40 trans-1,3-Dichloropropylene	75.00	12.104	12.012	(1.291)	525257	39.6	39.6
	41 1,1,2-Trichloroethane	97.00	12.427	12.327	(1.326)	395302	39.1	39.1
	42 Tetrachloroethylene	164.00	12.692	12.592	(0.901)	792824	102	102
	43 1,3-Dichloropropane	76.00	12.717	12.609	(0.902)	662547	46.4	46.4
	44 2-Hexanone	43.00	12.825	12.725	(0.910)	444085	53.4	53.4
	45 Chlorodibromomethane	129.00	13.098	13.007	(1.397)	651376	39.2	39.2(M)
	46 Ethylene dibromide	107.00	13.322	13.222	(0.945)	622938	49.7	49.7
*	47 Chlorobenzene-d5 (ISTD)	117.00	14.091	13.991	(1.000)	759555	50.0	
	48 Chlorobenzene	112.00	14.141	14.041	(1.004)	803566	49.5	49.5
	49 1,1,1,2-Tetrachloroethane	133.00	14.266	14.166	(1.012)	430759	50.7	50.7
	50 Ethylbenzene	106.00	14.291	14.207	(1.014)	370899	48.4	48.4
	m+p-Xylenes	106.00	14.499	14.398	(1.029)	924017	98.6	98.6
	o-Xylene	106.00	15.137	15.052	(1.074)	458446	50.6	50.6
	Styrene	104.00	15.154	15.069	(1.075)	765148	50.9	50.9
	54 Bromoform	173.00	15.470	15.384	(1.650)	536940	41.1	41.1
	55 Isopropylbenzene	105.00	15.678	15.599	(1.113)	1322208	51.4	51.4
S	56 Bromofluorobenzene (SURR)	95.00	15.919	15.840	(1.130)	822339	51.0	51.0
	57 1,1,2,2-Tetrachloroethane	83.00	16.102	16.031	(1.143)	783151	50.9	50.9
	58 1,2,3-Trichloropropane	75.00	16.177	16.106	(1.148)	669751	51.1	51.1
	59 Bromobenzene	156.00	16.152	16.073	(1.146)	481374	52.0	52.0
	60 n-Propylbenzene	91.00	16.261	16.198	(1.154)	1672016	51.8	51.8
	61 o-Chlorotoluene	91.00	16.411	16.339	(1.165)	1338555	51.8	51.8
	62 1,3,5-Trimethylbenzene	105.00	16.502	16.937	(1.171)	996473	45.2	45.2(M)
	63 p-Chlorotoluene	91.00	16.552	16.489	(1.175)	1426615	50.3	50.3
	64 tert-Butylbenzene	119.00	16.944	17.345	(1.202)	1140707	47.7	47.7(M)
	65 1,2,4-Trimethylbenzene	105.00	17.002	16.937	(1.207)	1334958	60.6	60.6
	66 sec-Butylbenzene	105.00	17.227	17.162	(1.223)	1525479	49.6	49.6
	67 4-Isopropyltoluene	119.00	17.402	17.345	(1.235)	1318459	55.2	55.2
	68 1,3-Dichlorobenzene	146.00	17.402	17.328	(1.235)	716720	51.1	51.1
	69 1,4-Dichlorobenzene	146.00	17.511	17.445	(1.243)	875270	50.6	50.6
	70 n-Butylbenzene	91.00	17.953	17.876	(1.274)	1423456	52.8	52.8
	71 1,2-Dichlorobenzene	146.00	18.020	17.943	(1.279)	770673	52.6	52.6
	72 1,2-Dibromo-3-chloropropane	75.00	19.111	19.037	(1.356)	223756	48.5	48.5
	73 1,2,4-Trichlorobenzene	180.00	20.444	20.353	(1.451)	718944	55.4	55.4
	74 Hexachlorobutadiene	225.00	20.728	20.611	(1.471)	446024	53.5	53.5
	75 Naphthalene	128.00	20.895	20.795	(1.483)	1243118	52.7	52.7
	76 1,2,3-Trichlorobenzene	180.00	21.352	21.251	(1.515)	684914	54.5	54.5

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET 0192

EPA SAMPLE NO.

CLJ78IW001MSD

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) WATER Lab Sample ID: JP2541VR

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: A5820

Level: (low/med) LOW Date Received: 01/19/96

% Moisture: not dec. N/A Date Analyzed: 01/23/96

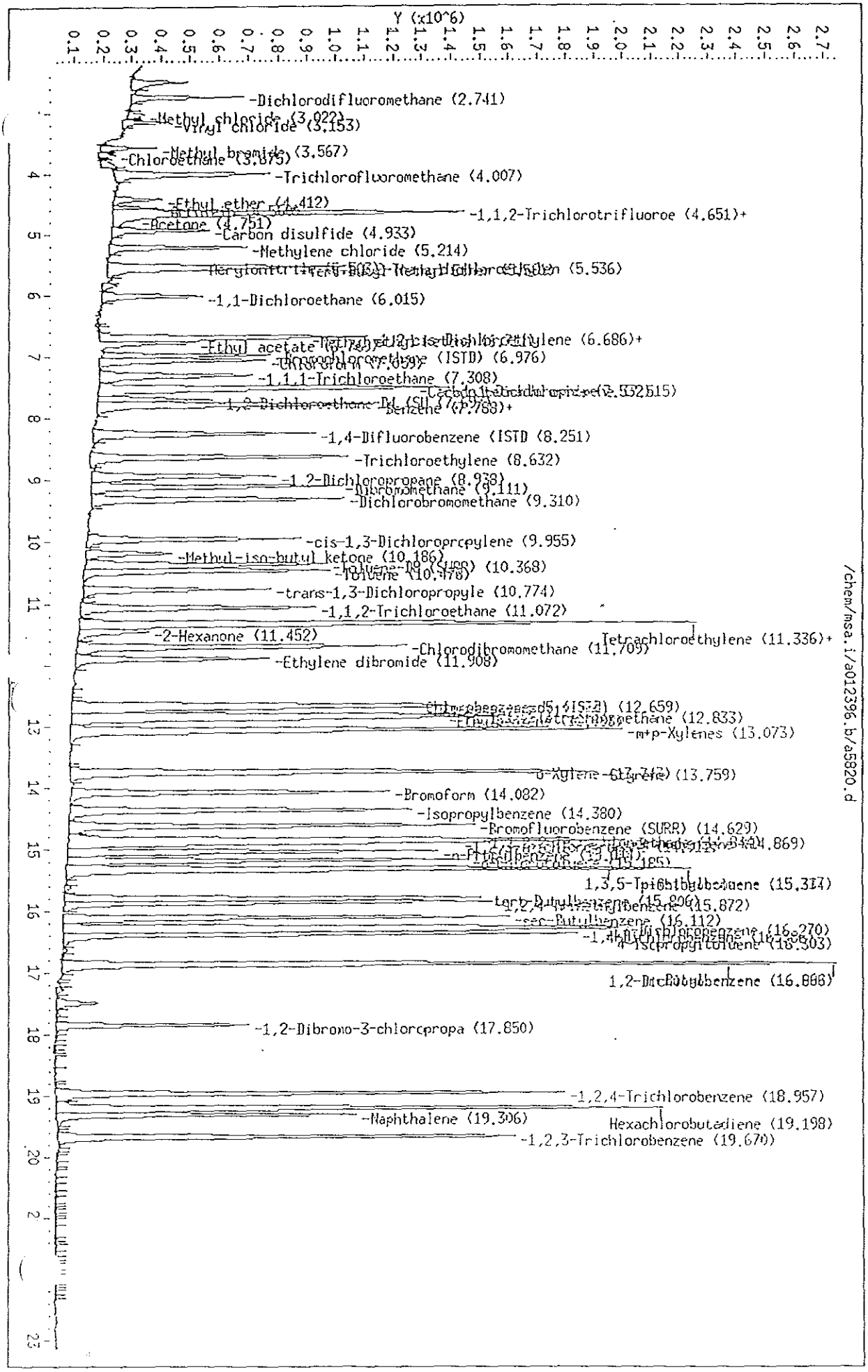
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 2500.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	140000	
74-83-9	Bromomethane	150000	
75-01-4	Vinyl Chloride	140000	
75-00-3	Chloroethane	150000	
75-09-2	Methylene Chloride	130000	
67-64-1	Acetone	140000	
75-15-0	Carbon Disulfide	140000	
75-35-4	1,1-Dichloroethene	140000	
75-34-3	1,1-Dichloroethane	130000	
540-59-0	1,2-Dichloroethene (total)	280000	
67-66-3	Chloroform	140000	
107-06-2	1,2-Dichloroethane	190000	
78-93-3	2-Butanone	140000	
71-55-6	1,1,1-Trichloroethane	140000	
56-23-5	Carbon Tetrachloride	150000	
75-27-4	Bromodichloromethane	130000	
78-87-5	1,2-Dichloropropane	130000	
10061-01-5	cis-1,3-Dichloropropene	130000	
79-01-6	Trichloroethene	120000	
124-48-1	Dibromochloromethane	120000	
79-00-5	1,1,2-Trichloroethane	120000	
71-43-2	Benzene	180000	
10061-02-6	trans-1,3-Dichloropropene	120000	
75-25-2	Bromoform	120000	
108-10-1	Methyl-iso-butyl ketone	130000	
591-78-6	2-Hexanone	130000	
127-18-4	Tetrachloroethylene	170000	
79-34-5	1,1,2,2-Tetrachloroethane	120000	
108-88-3	Toluene	130000	
108-90-7	Chlorobenzene	130000	
100-41-4	Ethylbenzene	130000	
100-42-5	Styrene	130000	
1330-20-7	Xylene (total)	380000	

Data File: /chem/msa.i/a012396.b/a5820.d
Date : 23-JAN-96 12:24
Client ID: n1v4919 mtx dup
Sample Info: 17418n clj78iw001 msd 20ul/50ml (n1v4919 msd)
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msa.i
Operator: jk
Column diameter: 0.53



Data File: /chem/msa.i/a012396.b/a5820.d
Report Date: 24-Jan-1996 11:11

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msa.i/a012396.b/a5820.d
Lab Smp Id: Client Smp ID: n1v4919 mtx dup
Inj Date : 23-JAN-96 12:24
Operator : jk Inst ID: msa.i
Smp Info : 17418n clj78iw001 msd 20ul/50ml (n1v4919 msd)
Misc Info : jp2541vr,n1v4919,m2,5000,2500,5.0,5.0,960123
Comment :
Method : /chem/msa.i/a012396.b/011996_ambia.m
Meth Date : 24-Jan-1996 11:06 Quant Type: ISTD
Cal Date : 23-JAN-96 07:25 Cal File: a5812.d
Als bottle: 9
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

1/24/96

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	Dichlorodifluoromethane	85.00	2.741	2.732	(0.393)	632021	52.8	52.8
	Methyl chloride	50.00	3.013	3.013	(0.432)	238838	56.2	56.2
3	Vinyl chloride	62.00	3.153	3.144	(0.452)	264855	55.2	55.2
4	Methyl bromide	94.00	3.567	3.557	(0.511)	195779	59.0	59.0
5	Chloroethane	64.00	3.675	3.666	(0.527)	75579	58.8	58.8
6	Trichlorofluoromethane	101.00	3.999	3.997	(0.573)	982217	55.1	55.1
7	Ethyl ether	59.00	4.420	4.402	(0.634)	184765	51.4	51.4
8	Acrolein	56.00	4.552	4.550	(0.653)	213659	51.7	51.7
9	1,1,2-Trichlorotrifluoroethan	101.00	4.651	4.633	(0.667)	760855	53.7	53.7
10	1,1-Dichloroethylene	96.00	4.651	4.641	(0.667)	320013	54.0	54.0
11	Acetone	43.00	4.751	4.749	(0.681)	89249	54.2	54.2
12	Carbon disulfide	76.00	4.933	4.922	(0.707)	891814	54.4	54.4
13	Methylene chloride	84.00	5.214	5.203	(0.747)	366621	53.2	53.2
14	Acrylonitrile	53.00	5.503	5.484	(0.789)	89168	55.4	55.4
15	1,2-Trans-dichloroethylene	96.00	5.528	5.525	(0.792)	369660	52.7	52.7
16	Tert-Butyl Methyl Ether	73.00	5.561	5.558	(0.797)	822207	53.2	53.2
17	1,1-Dichloroethane	63.00	6.015	6.004	(0.862)	655528	53.4	53.4
18	1,2-cis-Dichloroethylene	96.00	6.686	6.665	(0.958)	402280	58.9	58.9
19	2,2-Dichloropropane	77.00	6.686	6.665	(0.958)	536617	55.7	55.7
20	Methyl ethyl ketone	72.00	6.711	6.699	(0.813)	35995	57.1	57.1(Q)
21	Ethyl acetate	43.00	6.769	6.748	(0.970)	792920	52.6	52.6
22	Bromochloromethane (ISTD)	128.00	6.976	6.976	(1.000)	282909	50.0	
23	Chloroform	83.00	7.067	7.030	(1.013)	832073	54.0	54.0
24	1,1,1-Trichloroethane	97.00	7.308	7.271	(0.886)	798408	54.1	54.1
	1,1-Dichloropropene	75.00	7.515	7.470	(0.911)	593226	64.4	64.4
	Carbon tetrachloride	117.00	7.532	7.487	(0.913)	934239	60.1	60.1
5	1,2-Dichloroethane-D4 (SURR)	65.00	7.697	7.696	(0.933)	589426	54.2	54.2
28	Benzene	78.00	7.780	7.736	(0.943)	928589	70.2	70.2
29	1,2-Dichloroethane	62.00	7.796	7.736	(1.118)	662507	74.2	74.2

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
*	30 1,4-Difluorobenzene (ISTD)	114.00	8.251	8.249	(1.000)	1194467	50.0	
	31 Trichloroethylene	130.00	8.632	8.580	(1.046)	587140	49.3	49.3
	32 1,2-Dichloropropane	63.00	8.938	8.894	(1.083)	496820	51.8	51.8
	33 Dibromomethane	93.00	9.111	9.059	(1.104)	675435	50.2	50.2
	34 Dichlorobromomethane	83.00	9.310	9.266	(1.128)	1130927	50.7	50.7
	36 cis-1,3-Dichloropropylene	75.00	9.955	9.910	(1.206)	816090	52.9	52.9
	37 Methyl-iso-butyl ketone	43.00	10.186	10.149	(0.805)	546615	53.8	53.8
S	38 Toluene-D8 (SURR)	98.00	10.368	10.363	(0.819)	1187664	52.5	52.5
	39 Toluene	91.00	10.476	10.430	(0.828)	1246619	52.3	52.3
	40 trans-1,3-Dichloropropylene	75.00	10.774	10.736	(1.306)	672133	49.3	49.3
	41 1,1,2-Trichloroethane	97.00	11.063	11.034	(1.341)	528158	49.3	49.3
	42 Tetrachloroethylene	164.00	11.336	11.298	(0.896)	771354	66.2	66.2
	43 1,3-Dichloropropane	76.00	11.336	11.307	(0.896)	743588	50.9	50.9
	44 2-Hexanone	43.00	11.452	11.439	(0.905)	382328	50.8	50.8
	45 Chlorodibromomethane	129.00	11.709	11.679	(1.419)	1262587	49.7	49.7
	46 Ethylene dibromide	107.00	11.899	11.869	(0.940)	946727	50.9	50.9
*	47 Chlorobenzene-d5 (ISTD)	117.00	12.659	12.641	(1.000)	1076346	50.0	
	48 Chlorobenzene	112.00	12.709	12.678	(1.004)	1091828	51.2	51.2
	49 1,1,1,2-Tetrachloroethane	133.00	12.833	12.810	(1.014)	701486	52.1	52.1
	50 Ethylbenzene	106.00	12.883	12.852	(1.018)	478599	51.8	51.8
	1 m+p-Xylenes	106.00	13.073	13.051	(1.033)	1108550	102	102
	o-Xylene	106.00	13.743	13.728	(1.085)	548866	51.4	51.4
	Styrene	104.00	13.768	13.744	(1.088)	987345	50.7	50.7
	54 Bromoform	173.00	14.082	14.067	(1.707)	1044507	49.0	49.0
	55 Isopropylbenzene	105.00	14.330	14.356	(1.136)	1729933	50.8	50.8
S	56 Bromofluorobenzene (SURR)	95.00	14.637	14.622	(1.156)	958032	54.1	54.1
	57 1,1,2,2-Tetrachloroethane	83.00	14.844	14.828	(1.173)	989159	49.8	49.8
	58 1,2,3-Trichloropropane	75.00	14.911	14.894	(1.178)	773283	51.2	51.2
	59 Bromobenzene	156.00	14.878	14.861	(1.175)	710753	49.9	49.9
	60 n-Propylbenzene	91.00	15.044	15.035	(1.188)	2153620	51.4	51.4
	61 o-Chlorotoluene	91.00	15.185	15.168	(1.200)	1521153	52.2	52.2
	62 1,3,5-Trimethylbenzene	105.00	15.317	15.309	(1.210)	1461238	51.0	51.0
	63 p-Chlorotoluene	91.00	15.342	15.334	(1.212)	1686246	51.7	51.7
	64 tert-Butylbenzene	119.00	15.806	15.789	(1.249)	1530970	49.8	49.8
	65 1,2,4-Trimethylbenzene	105.00	15.872	15.863	(1.254)	1546983	52.5	52.5
	66 sec-Butylbenzene	105.00	16.112	16.111	(1.273)	2079586	50.7	50.7
	67 4-Isopropyltoluene	119.00	16.311	16.310	(1.288)	1702343	50.1	50.1
	68 1,3-Dichlorobenzene	146.00	16.270	16.261	(1.285)	1106695	49.3	49.3
	69 1,4-Dichlorobenzene	146.00	16.395	16.385	(1.295)	1184570	50.3	50.3
	70 n-Butylbenzene	91.00	16.858	16.849	(1.332)	1743491	51.4	51.4
	71 1,2-Dichlorobenzene	146.00	16.883	16.874	(1.334)	1092286	50.7	50.7
	72 1,2-Dibromo-3-chloropropane	75.00	17.842	17.849	(1.409)	294690	47.4	47.4
	73 1,2,4-Trichlorobenzene	180.00	18.957	18.964	(1.497)	978925	47.7	47.7
	74 Hexachlorobutadiene	225.00	19.198	19.196	(1.516)	857965	48.6	48.6
	75 Naphthalene	128.00	19.306	19.305	(1.525)	1420714	51.6	51.6
	1,2,3-Trichlorobenzene	180.00	19.670	19.669	(1.554)	967724	49.2	49.2

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

0196 EPA SAMPLE NO.

VSPK01A

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: N2V4913VS

Sample wt/vol: 5.00 (g/mL) G Lab File ID: C7977

Level: (low/med) LOW Date Received: 1/18/96

% Moisture: not dec. N/A Date Analyzed: 01/22/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

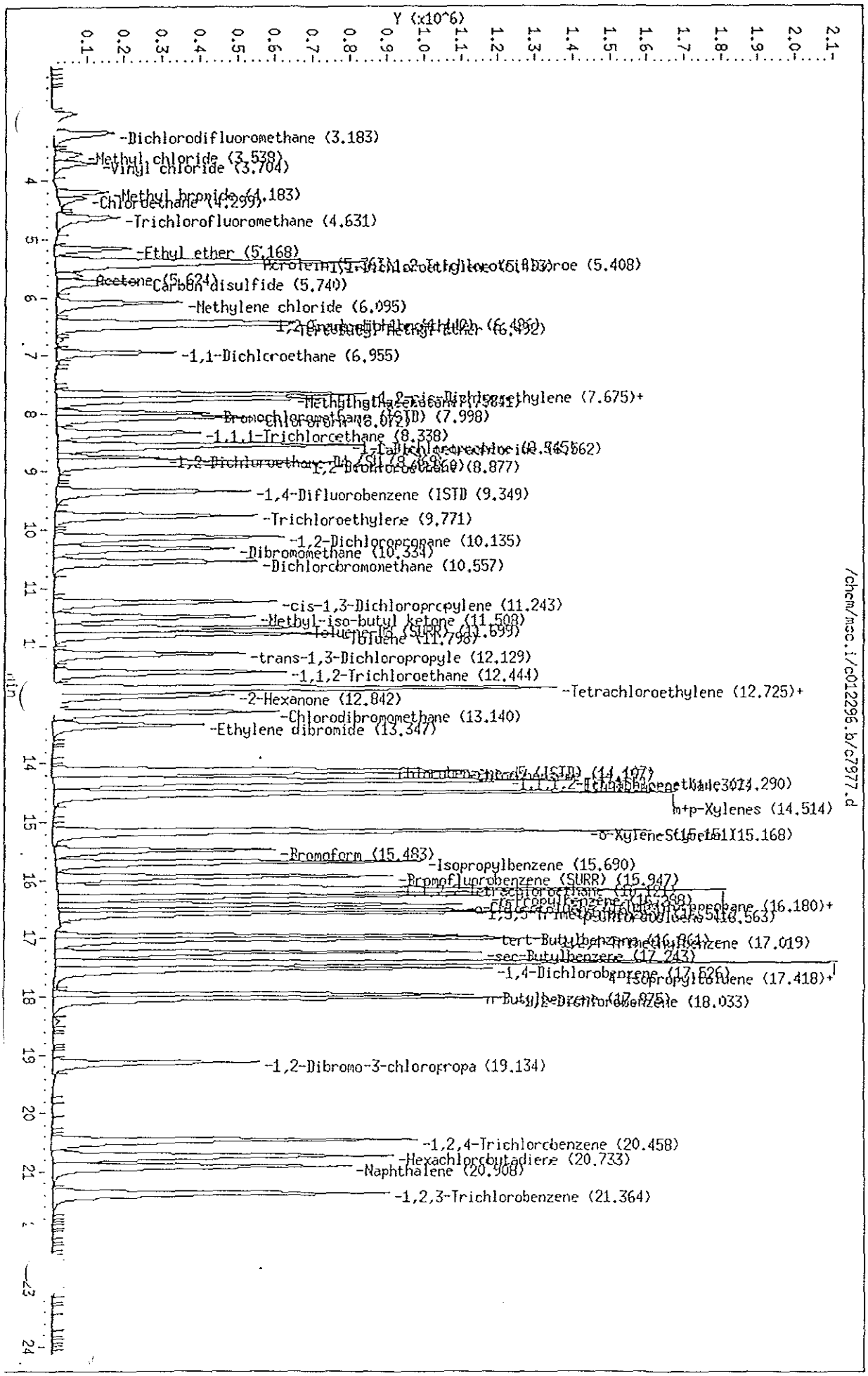
Soil Extract Volume: ~~5000~~ 10000 (uL) Soil Aliquot Volume: 5000 (uL)

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	50	
74-83-9	Bromomethane	53	
75-01-4	Vinyl Chloride	51	
75-00-3	Chloroethane	53	
75-09-2	Methylene Chloride	48	
67-64-1	Acetone	48	
75-15-0	Carbon Disulfide	48	
75-35-4	1,1-Dichloroethene	49	
75-34-3	1,1-Dichloroethane	48	
540-59-0	1,2-Dichloroethene (total)	97	
67-66-3	Chloroform	48	
107-06-2	1,2-Dichloroethane	48	
78-93-3	2-Butanone	51	
71-55-6	1,1,1-Trichloroethane	52	
56-23-5	Carbon Tetrachloride	52	
75-27-4	Bromodichloromethane	54	
78-87-5	1,2-Dichloropropane	54	
10061-01-5	cis-1,3-Dichloropropene	58	
79-01-6	Trichloroethene	53	
124-48-1	Dibromochloromethane	53	
79-00-5	1,1,2-Trichloroethane	54	
71-43-2	Benzene	54	
10061-02-6	trans-1,3-Dichloropropene	56	
75-25-2	Bromoform	53	
108-10-1	Methyl-iso-butyl ketone	47	
591-78-6	2-Hexanone	45	
127-18-4	Tetrachloroethylene	50	
79-34-5	1,1,2,2-Tetrachloroethane	48	
108-88-3	Toluene	50	
108-90-7	Chlorobenzene	48	
100-41-4	Ethylbenzene	48	
100-42-5	Styrene	48	
1330-20-7	Xylene (total)	140	

Data File: /chem/msc.i/c012296.b/c7977.d
Date : 22-JAN-96 03:01
Client ID:
Sample Info: met spk
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i
Operator: jk
Column diameter: 0.53



OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msc.i/c012296.b/c7977.d
Lab Smp Id:
Inj Date : 22-JAN-96 03:01
Operator : jk Inst ID: msc.i
Smp Info : met spk
Misc Info : n2v4913vs,n2v4913,m2,5000,1,5.0,5.0,960122
Comment :
Method : /chem/msc.i/c012296.b/012196_heatc.m
Meth Date : 22-Jan-1996 04:32 glenn Quant Type: ISTD
Cal Date : 22-JAN-96 00:58 Cal File: c7974.d
Als bottle: 7
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

MK 1/22/96

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	Dichlorodifluoromethane	85.00	3.183	3.159	(0.398)	564973	52.6	52.6
	Methyl chloride	50.00	3.547	3.531	(0.443)	329608	49.7	49.7
	inyl chloride	62.00	3.704	3.680	(0.463)	331970	51.4	51.4
4	Methyl bromide	94.00	4.183	4.159	(0.522)	227146	53.0	53.0
5	Chloroethane	64.00	4.299	4.283	(0.537)	134362	53.4	53.4
6	Trichlorofluoromethane	101.00	4.631	4.615	(0.578)	447966	51.8	51.8
7	Ethyl ether	59.00	5.168	5.145	(0.646)	263730	47.4	47.4
8	Acrolein	56.00	5.367	5.335	(0.670)	394177	46.2	46.2
9	1,1,2-Trichlorotrifluoroethan	101.00	5.400	5.369	(0.674)	613696	49.2	49.2
10	1,1-Dichloroethylene	96.00	5.433	5.394	(0.679)	292316	49.2	49.2
11	Acetone	43.00	5.632	5.609	(0.703)	256705	47.7	47.7
12	Carbon disulfide	76.00	5.740	5.717	(0.717)	770323	48.3	48.3
13	Methylene chloride	84.00	6.095	6.064	(0.761)	340183	47.6	47.6
14	Acrylonitrile	53.00	6.442	6.428	(0.805)	152695	43.7	43.7
15	1,2-Trans-dichloroethylene	96.00	6.426	6.403	(0.803)	330319	49.2	49.2
16	Tert-Butyl Methyl Ether	73.00	6.492	6.470	(0.811)	867860	46.7	46.7
17	1,1-Dichloroethane	63.00	6.955	6.925	(0.869)	729702	48.2	48.2
18	1,2-cis-Dichloroethylene	96.00	7.675	7.661	(0.959)	340418	47.6	47.6
19	2,2-Dichloropropane	77.00	7.683	7.661	(0.960)	530110	55.4	55.4
20	Methyl ethyl ketone	72.00	7.741	7.711	(0.827)	65074	50.8	50.8(Q)
21	Ethyl acetate	43.00	7.766	7.752	(0.970)	2126714	46.6	46.6
22	Bromochloromethane (ISTD)	128.00	8.006	7.976	(1.000)	236470	50.0	
23	Chloroform	83.00	8.081	8.067	(1.009)	734104	47.5	47.5
24	1,1,1-Trichloroethane	97.00	8.338	8.324	(0.891)	571734	52.4	52.4
25	1,1-Dichloropropene	75.00	8.545	8.532	(0.913)	520851	53.1	53.1
	Carbon tetrachloride	117.00	8.570	8.549	(0.916)	489587	51.8	51.8
	',2-Dichloroethane-D4 (SURR)	65.00	8.769	8.756	(1.095)	482231	48.6	48.6
	nzene	78.00	8.852	8.831	(0.946)	802532	54.3	54.3
29	1,2-Dichloroethane	62.00	8.877	8.856	(1.109)	586637	47.8	47.8

Data File: /chem/msc.i/c012296.b/c7977.d
Report Date: 22-Jan-1996 07:25

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 30 1,4-Difluorobenzene (ISTD)	114.00	9.357	9.328	(1.000)	839190	50.0	
31 Trichloroethylene	130.00	9.771	9.750	(1.044)	417748	53.0	53.0
32 1,2-Dichloropropane	63.00	10.135	10.106	(1.083)	534834	53.9	53.9
33 Dibromomethane	93.00	10.334	10.297	(1.104)	501190	52.7	52.7
34 Dichlorobromomethane	83.00	10.549	10.520	(1.127)	846540	53.9	53.9
36 cis-1,3-Dichloropropylene	75.00	11.243	11.198	(1.202)	720871	57.6	57.6
37 Methyl-iso-butyl ketone	43.00	11.500	11.455	(0.815)	1190333	46.5	46.5
$ 38 Toluene-D8 (SURR)	98.00	11.699	11.637	(0.829)	984073	50.4	50.4
39 Toluene	91.00	11.798	11.754	(0.836)	1144737	50.1	50.1
40 trans-1,3-Dichloropropylene	75.00	12.129	12.077	(1.296)	602477	56.0	56.0
41 1,1,2-Trichloroethane	97.00	12.452	12.400	(1.331)	462784	54.2	54.2
42 Tetrachloroethylene	164.00	12.717	12.665	(0.901)	446563	50.3	50.3
43 1,3-Dichloropropane	76.00	12.734	12.690	(0.903)	805826	48.0	48.0
44 2-Hexanone	43.00	12.850	12.806	(0.911)	903134	44.6	44.6
45 Chlorodibromomethane	129.00	13.140	13.088	(1.404)	724359	53.2	53.2 (M)
46 Ethylene dibromide	107.00	13.347	13.303	(0.946)	741353	47.2	47.2
* 47 Chlorobenzene-d5 (ISTD)	117.00	14.107	14.072	(1.000)	862967	50.0	
48 Chlorobenzene	112.00	14.157	14.122	(1.004)	901607	48.3	48.3
49 1,1,1,2-Tetrachloroethane	133.00	14.290	14.255	(1.013)	471687	48.6	48.6
50 Ethylbenzene	106.00	14.315	14.288	(1.015)	417014	48.2	48.2
m+p-Xylenes	106.00	14.514	14.479	(1.029)	1033592	96.1	96.1
o-Xylene	106.00	15.151	15.125	(1.074)	495949	48.2	48.2
Styrene	104.00	15.168	15.150	(1.075)	833467	47.8	47.8
54 Bromoform	173.00	15.483	15.464	(1.655)	647910	53.2	53.2
55 Isopropylbenzene	105.00	15.698	15.672	(1.113)	1407975	48.2	48.2
$ 56 Bromofluorobenzene (SURR)	95.00	15.947	15.921	(1.130)	873592	48.5	48.5
57 1,1,2,2-Tetrachloroethane	83.00	16.121	16.103	(1.143)	1035598	47.6	47.6
58 1,2,3-Trichloropropane	75.00	16.188	16.170	(1.147)	894017	46.7	46.7
59 Bromobenzene	156.00	16.171	16.153	(1.146)	508734	47.4	47.4
60 n-Propylbenzene	91.00	16.288	16.262	(1.155)	1823623	48.6	48.6
61 o-Chlorotoluene	91.00	16.429	16.412	(1.165)	1456522	49.8	49.8
62 1,3,5-Trimethylbenzene	105.00	16.513	17.001	(1.171)	1170540	46.6	46.6 (M)
63 p-Chlorotoluene	91.00	16.571	16.553	(1.175)	1502039	46.5	46.5
64 tert-Butylbenzene	119.00	16.961	17.409	(1.202)	1189995	42.4	42.4 (M)
65 1,2,4-Trimethylbenzene	105.00	17.027	17.001	(1.207)	1231147	49.0	49.0
66 sec-Butylbenzene	105.00	17.243	17.226	(1.222)	1696616	49.8	49.8
67 4-Isopropyltoluene	119.00	17.426	17.409	(1.235)	1352644	48.2	48.2
68 1,3-Dichlorobenzene	146.00	17.418	17.400	(1.235)	772370	46.3	46.3
69 1,4-Dichlorobenzene	146.00	17.526	17.517	(1.242)	988748	48.7	48.7
70 n-Butylbenzene	91.00	17.975	17.949	(1.274)	1512643	49.8	49.8
71 1,2-Dichlorobenzene	146.00	18.033	18.024	(1.278)	820852	47.7	47.7
72 1,2-Dibromo-3-chloropropane	75.00	19.134	19.117	(1.356)	386864	45.0	45.0
73 1,2,4-Trichlorobenzene	180.00	20.458	20.441	(1.450)	754957	48.3	48.3
74 Hexachlorobutadiene	225.00	20.733	20.725	(1.470)	471937	48.7	48.7
75 Naphthalene	128.00	20.916	20.891	(1.483)	1534990	45.1	45.1
1,2,3-Trichlorobenzene	180.00	21.364	21.348	(1.514)	746694	48.1	48.1

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET 0200

EPA SAMPLE NO.

VSPK01B

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: N2V4914VS

Sample wt/vol: 5.00 (g/mL) G Lab File ID: C7985

Level: (low/med) LOW Date Received: 1/18/96

% Moisture: not dec. N/A Date Analyzed: 01/22/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 50.0

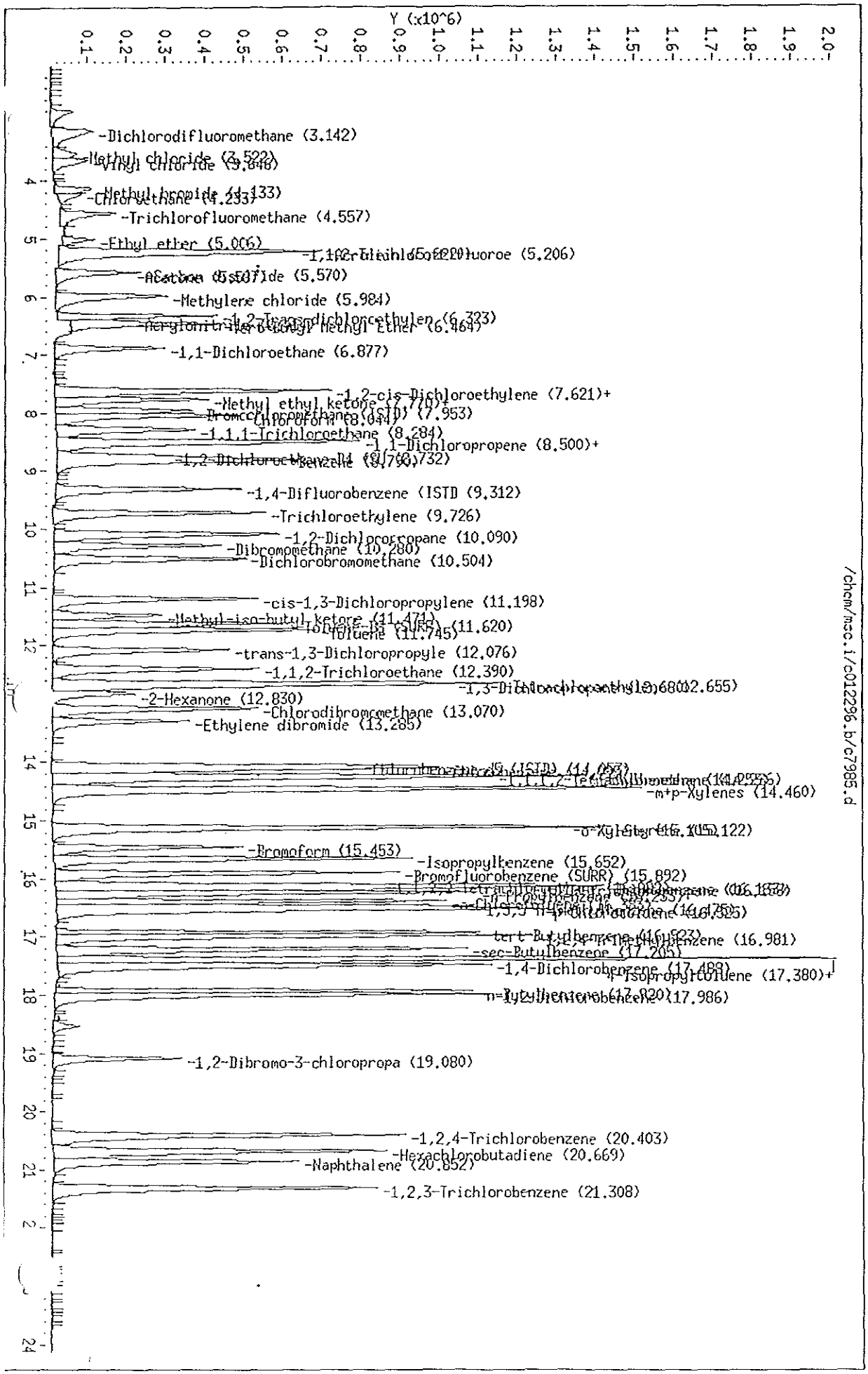
Soil Extract Volume: ~~5000~~ 10000 (uL) Soil Aliquot Volume: 100 (uL)

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	2800	
74-83-9	Bromomethane	2400	
75-01-4	Vinyl Chloride	2800	
75-00-3	Chloroethane	2400	
75-09-2	Methylene Chloride	2500	
67-64-1	Acetone	2900	
75-15-0	Carbon Disulfide	2500	
75-35-4	1,1-Dichloroethene	2600	
75-34-3	1,1-Dichloroethane	2600	
540-59-0	1,2-Dichloroethene (total)	5300	
67-66-3	Chloroform	2700	
107-06-2	1,2-Dichloroethane	250	U
78-93-3	2-Butanone	1300	
71-55-6	1,1,1-Trichloroethane	2400	
56-23-5	Carbon Tetrachloride	2300	
75-27-4	Bromodichloromethane	2300	
78-87-5	1,2-Dichloropropane	2500	
10061-01-5	cis-1,3-Dichloropropene	2400	
79-01-6	Trichloroethene	2600	
124-48-1	Dibromochloromethane	2300	
79-00-5	1,1,2-Trichloroethane	2300	
71-43-2	Benzene	2500	
10061-02-6	trans-1,3-Dichloropropene	2400	
75-25-2	Bromoform	2400	
108-10-1	Methyl-iso-butyl ketone	2600	
591-78-6	2-Hexanone	2600	
127-18-4	Tetrachloroethylene	2600	
79-34-5	1,1,2,2-Tetrachloroethane	2400	
108-88-3	Toluene	2500	
108-90-7	Chlorobenzene	2500	
100-41-4	Ethylbenzene	2500	
100-42-5	Styrene	2600	
1330-20-7	Xylene (total)	7500	

Data File: /chem/msc.i/c012296.b/c7985.d
Date : 22-JAN-96 07:20
Client ID: n2v4914 blk spk
Sample Info: met spk
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i
Operator: jk
Column diameter: 0.53



OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msc.i/c012296.b/c7985.d
Lab Smp Id: Client Smp ID: n2v4914 blk spk
Inj Date : 22-JAN-96 07:20
Operator : jk Inst ID: msc.i
Smp Info : met spk
Misc Info : n2v4914vs,n2v4914,m2,100,50,5.00,5.00,960121
Comment :
Method : /chem/msc.i/c012296.b/012196_ambic.m
Meth Date : 22-Jan-1996 08:31 glenn Quant Type: ISTD
Cal Date : 22-JAN-96 00:26 Cal File: c7973.d
Als bottle: 16
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

Mk 1/22/96

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
Dichlorodifluoromethane	85.00	3.142	3.123	(0.395)	529352	53.8	53.8
fethyl chloride	50.00	3.530	3.487	(0.443)	330434	56.1	56.1
Vinyl chloride	62.00	3.646	3.644	(0.458)	313356	55.7	55.7
4 Methyl bromide	94.00	4.125	4.123	(0.518)	197074	47.6	47.6
5 Chloroethane	64.00	4.233	4.239	(0.532)	122693	47.7	47.7
6 Trichlorofluoromethane	101.00	4.557	4.628	(0.572)	319513	28.9	28.9
7 Ethyl ether	59.00	5.006	5.099	(0.629)	106538	23.2	23.2
8 Acrolein	56.00	5.222	5.289	(0.656)	224591	46.8	46.8
9 1,1,2-Trichlorotrifluoroethan	101.00	5.206	5.364	(0.654)	506340	46.2	46.2
10 1,1-Dichloroethylene	96.00	5.231	5.381	(0.657)	272814	51.8	51.8
11 Acetone	43.00	5.587	5.522	(0.702)	137040	58.0	58.0
12 Carbon disulfide	76.00	5.570	5.704	(0.700)	730857	50.2	50.2
13 Methylene chloride	84.00	5.984	6.026	(0.752)	328756	50.0	50.0
14 Acrylonitrile	53.00	6.414	6.349	(0.806)	108617	55.3	55.3
15 1,2-Trans-dichloroethylene	96.00	6.323	6.357	(0.794)	307617	52.6	52.6
16 Tert-Butyl Methyl Ether	73.00	6.472	6.398	(0.813)	777767	53.0	53.0
17 1,1-Dichloroethane	63.00	6.886	6.878	(0.865)	707524	52.6	52.6
18 1,2-cis-Dichloroethylene	96.00	7.630	7.581	(0.958)	332771	52.4	52.4
19 2,2-Dichloropropane	77.00	7.613	7.589	(0.956)	480334	55.2	55.2
20 Methyl ethyl ketone	72.00	7.770	7.606	(0.834)	18398	26.3	26.3(Q)
21 Ethyl acetate	43.00	7.770	7.656	(0.976)	1274390	53.9	53.9
22 Bromochloromethane (ISTD)	128.00	7.961	7.904	(1.000)	215211	50.0	
23 Chloroform	83.00	8.044	7.979	(1.010)	719246	53.0	53.0
24 1,1,1-Trichloroethane	97.00	8.276	8.253	(0.889)	543345	47.7	47.7
25 1,1-Dichloropropene	75.00	8.492	8.452	(0.912)	500502	49.8	49.8
Carbon tetrachloride	117.00	8.500	8.468	(0.913)	453402	46.5	46.5
,2-Dichloroethane-D4 (SURR)	65.00	8.732	8.659	(1.097)	459471	53.7	53.7
enzene	78.00	8.790	8.750	(0.944)	780703	50.4	50.4
30 1,4-Difluorobenzene (ISTD)	114.00	9.312	9.239	(1.000)	805009	50.0	

Data File: /chem/msc.i/c012296.b/c7985.d
Report Date: 22-Jan-1996 11:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	31 Trichloroethylene	130.00	9.726	9.662	(1.044)	422474	51.9	51.9
	32 1,2-Dichloropropane	63.00	10.090	10.026	(1.084)	527219	50.0	50.0
	33 Dibromomethane	93.00	10.280	10.208	(1.104)	455739	47.9	47.9
	34 Dichlorobromomethane	83.00	10.504	10.432	(1.128)	780867	45.7	45.7
	36 cis-1,3-Dichloropropylene	75.00	11.198	11.134	(1.203)	658329	47.0	47.0
	37 Methyl-iso-butyl ketone	43.00	11.471	11.374	(0.816)	668724	51.1	51.1
$	38 Toluene-D8 (SURR)	98.00	11.620	11.573	(0.827)	898730	48.8	48.8
	39 Toluene	91.00	11.745	11.681	(0.836)	1054299	49.7	49.7
	40 trans-1,3-Dichloropropylene	75.00	12.084	12.012	(1.298)	548768	47.4	47.4
	41 1,1,2-Trichloroethane	97.00	12.398	12.327	(1.331)	406202	46.0	46.0
	42 Tetrachloroethylene	164.00	12.655	12.592	(0.901)	416189	51.9	51.9
	43 1,3-Dichloropropane	76.00	12.680	12.609	(0.902)	723029	49.0	49.0
	44 2-Hexanone	43.00	12.830	12.725	(0.913)	448915	52.3	52.3
	45 Chlorodibromomethane	129.00	13.070	13.007	(1.404)	654823	45.2	45.2
	46 Ethylene dibromide	107.00	13.285	13.222	(0.945)	629158	48.7	48.7
*	47 Chlorobenzene-d5 (ISTD)	117.00	14.053	13.991	(1.000)	783282	50.0	
	48 Chlorobenzene	112.00	14.103	14.041	(1.004)	843954	50.4	50.4
	49 1,1,1,2-Tetrachloroethane	133.00	14.236	14.166	(1.013)	451709	51.6	51.6
	50 Ethylbenzene	106.00	14.261	14.207	(1.015)	392113	49.6	49.6
	51 m+p-Xylenes	106.00	14.460	14.398	(1.029)	959322	99.2	99.2
	o-Xylene	106.00	15.105	15.052	(1.075)	469818	50.2	50.2
	Styrene	104.00	15.130	15.069	(1.077)	791054	51.0	51.0
	Bromoform	173.00	15.453	15.384	(1.659)	536743	47.1	47.1
	55 Isopropylbenzene	105.00	15.652	15.599	(1.114)	1347516	50.8	50.8
$	56 Bromofluorobenzene (SURR)	95.00	15.892	15.840	(1.131)	848538	51.0	51.0
	57 1,1,2,2-Tetrachloroethane	83.00	16.092	16.031	(1.145)	754423	47.5	47.5
	58 1,2,3-Trichloropropane	75.00	16.158	16.106	(1.150)	646148	47.8	47.8
	59 Bromobenzene	156.00	16.133	16.073	(1.148)	499705	52.3	52.3
	60 n-Propylbenzene	91.00	16.242	16.198	(1.156)	1708410	51.3	51.3
	61 o-Chlorotoluene	91.00	16.383	16.339	(1.166)	1367316	51.3	51.3
	62 1,3,5-Trimethylbenzene	105.00	16.475	16.937	(1.172)	1136527	50.0	50.0(M)
	63 p-Chlorotoluene	91.00	16.533	16.489	(1.176)	1453699	49.7	49.7
	64 tert-Butylbenzene	119.00	16.923	17.345	(1.204)	1161592	47.1	47.1(M)
	65 1,2,4-Trimethylbenzene	105.00	16.981	16.937	(1.208)	1172988	51.6	51.6
	66 sec-Butylbenzene	105.00	17.205	17.162	(1.224)	1615308	50.9	50.9
	67 4-Isopropyltoluene	119.00	17.380	17.345	(1.237)	1289379	52.3	52.3
	68 1,3-Dichlorobenzene	146.00	17.380	17.328	(1.237)	753649	52.1	52.1
	69 1,4-Dichlorobenzene	146.00	17.488	17.445	(1.244)	942554	52.9	52.9
	70 n-Butylbenzene	91.00	17.920	17.876	(1.275)	1444443	52.0	52.0
	71 1,2-Dichlorobenzene	146.00	17.995	17.943	(1.280)	806896	53.4	53.4
	72 1,2-Dibromo-3-chloropropane	75.00	19.080	19.037	(1.358)	222110	46.7	46.7
	73 1,2,4-Trichlorobenzene	180.00	20.403	20.353	(1.452)	725686	54.2	54.2
	74 Hexachlorobutadiene	225.00	20.678	20.611	(1.471)	455336	53.0	53.0
	75 Naphthalene	128.00	20.852	20.795	(1.484)	1174358	48.3	48.3
	76 1,2,3-Trichlorobenzene	180.00	21.308	21.251	(1.516)	686766	53.0	53.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET 0204

EPA SAMPLE NO.

VSPK01C

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) WATER Lab Sample ID: N1V4919VS

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: A5814

Level: (low/med) LOW Date Received: 1/18/96

% Moisture: not dec. N/A Date Analyzed: 01/23/96

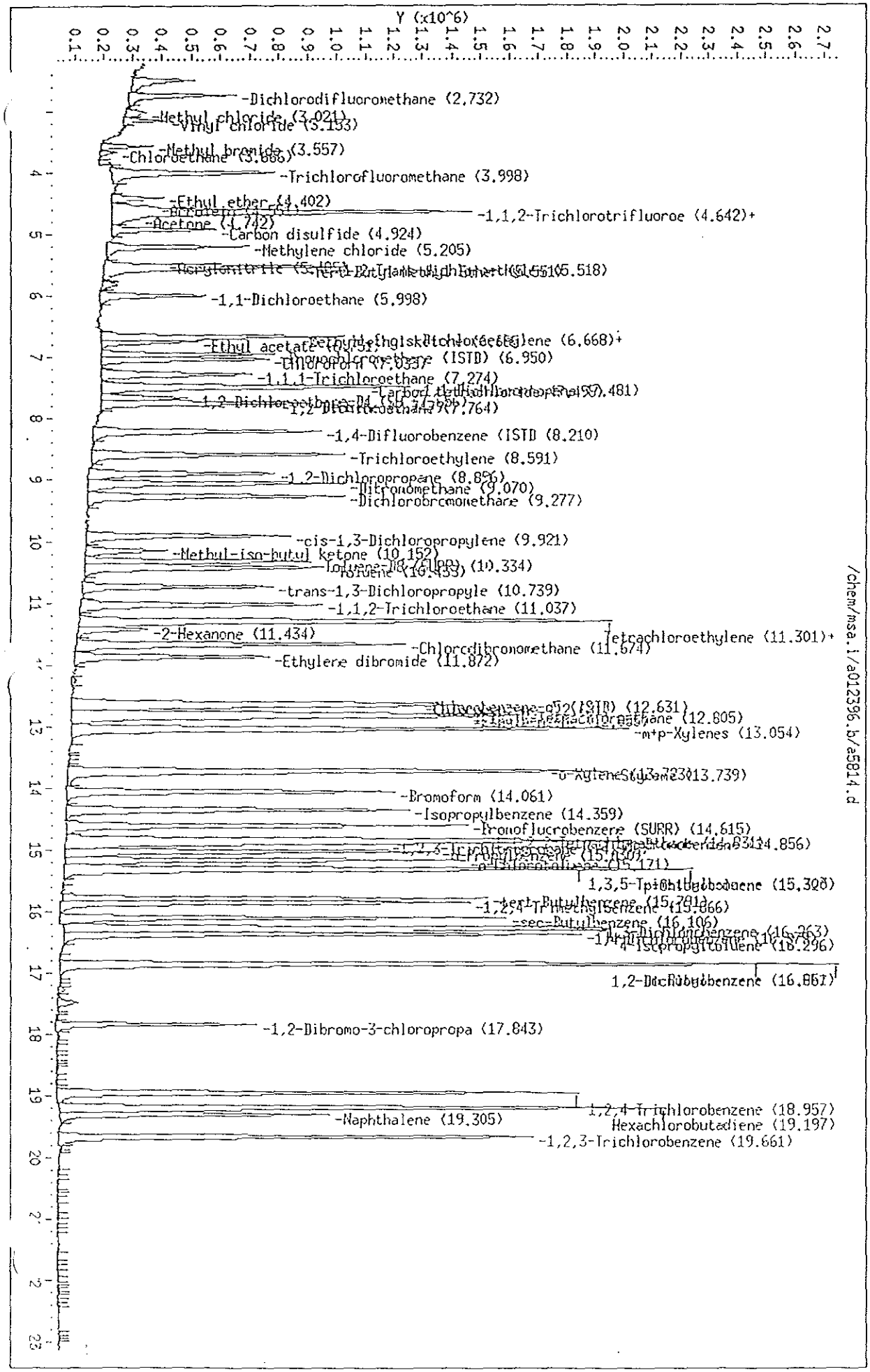
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	55	
74-83-9	Bromomethane	59	
75-01-4	Vinyl Chloride	57	
75-00-3	Chloroethane	57	
75-09-2	Methylene Chloride	52	
67-64-1	Acetone	61	
75-15-0	Carbon Disulfide	53	
75-35-4	1,1-Dichloroethene	54	
75-34-3	1,1-Dichloroethane	53	
540-59-0	1,2-Dichloroethene (total)	110	
67-66-3	Chloroform	55	
107-06-2	1,2-Dichloroethane	59	
78-93-3	2-Butanone	60	
71-55-6	1,1,1-Trichloroethane	51	
56-23-5	Carbon Tetrachloride	51	
75-27-4	Bromodichloromethane	51	
78-87-5	1,2-Dichloropropane	52	
10061-01-5	cis-1,3-Dichloropropene	50	
79-01-6	Trichloroethene	49	
124-48-1	Dibromochloromethane	50	
79-00-5	1,1,2-Trichloroethane	50	
71-43-2	Benzene	53	
10061-02-6	trans-1,3-Dichloropropene	50	
75-25-2	Bromoform	49	
108-10-1	Methyl-iso-butyl ketone	50	
591-78-6	2-Hexanone	52	
127-18-4	Tetrachloroethylene	51	
79-34-5	1,1,2,2-Tetrachloroethane	48	
108-88-3	Toluene	51	
108-90-7	Chlorobenzene	51	
100-41-4	Ethylbenzene	51	
100-42-5	Styrene	51	
1330-20-7	Xylene (total)	150	

Data File: /chem/msa.i/a012396.b/a5814.d
Date : 23-JAN-96 08:52
Client ID: n1v4919 blk spk
Sample Info: n1v4919 blk spk (2)
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msa.i
Operator: jk
Column diameter: 0.53



Data File: /chem/msa.i/a012396.b/a5814.d
Report Date: 24-Jan-1996 11:11

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msa.i/a012396.b/a5814.d
Lab Smp Id: Client Smp ID: n1v4919 blk spk
Inj Date : 23-JAN-96 08:52
Operator : jk Inst ID: msa.i
Smp Info : n1v4919 blk spk (2)
Misc Info : n1v4919vs,n1v4919,m2,5000,1,5.0,5.0,960123,
Comment :
Method : /chem/msa.i/a012396.b/011996_ambia.m
Meth Date : 24-Jan-1996 11:06 Quant Type: ISTD
Cal Date : 23-JAN-96 07:25 Cal File: a5812.d
Als bottle: 4
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

MK 1/24/96

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
Dichlorodifluoromethane	85.00	2.732	2.732	(0.393)	680663	54.9	54.9
Methyl chloride	50.00	3.021	3.013	(0.435)	243209	55.2	55.2
3 Vinyl chloride	62.00	3.153	3.144	(0.454)	280723	56.5	56.5
4 Methyl bromide	94.00	3.557	3.557	(0.512)	203305	59.2	59.2
5 Chloroethane	64.00	3.674	3.666	(0.529)	76307	57.3	57.3
6 Trichlorofluoromethane	101.00	3.998	3.997	(0.575)	1027739	55.6	55.6
7 Ethyl ether	59.00	4.402	4.402	(0.633)	194336	52.2	52.2
8 Acrolein	56.00	4.551	4.550	(0.655)	217634	50.8	50.8
9 1,1,2-Trichlorotrifluoroethan	101.00	4.634	4.633	(0.667)	804671	54.8	54.8
10 1,1-Dichloroethylene	96.00	4.642	4.641	(0.668)	330179	53.9	53.9
11 Acetone	43.00	4.742	4.749	(0.682)	103373	60.6	60.6
12 Carbon disulfide	76.00	4.915	4.922	(0.707)	905065	53.3	53.3
13 Methylene chloride	84.00	5.205	5.203	(0.749)	367580	51.6	51.6
14 Acrylonitrile	53.00	5.485	5.484	(0.789)	84316	50.6	50.6
15 1,2-Trans-dichloroethylene	96.00	5.518	5.525	(0.794)	383717	52.8	52.8
16 Tert-Butyl Methyl Ether	73.00	5.551	5.558	(0.799)	854744	53.5	53.5
17 1,1-Dichloroethane	63.00	5.998	6.004	(0.863)	679182	53.4	53.4
18 1,2-cis-Dichloroethylene	96.00	6.668	6.665	(0.959)	369435	52.2	52.2
19 2,2-Dichloropropane	77.00	6.668	6.665	(0.959)	494311	49.6	49.6
20 Methyl ethyl ketone	72.00	6.685	6.699	(0.814)	39289	60.0	60.0(Q)
21 Ethyl acetate	43.00	6.751	6.748	(0.971)	826182	52.9	52.9
22 Bromochloromethane (ISTD)	128.00	6.950	6.976	(1.000)	292930	50.0	
23 Chloroform	83.00	7.033	7.030	(1.012)	872267	54.7	54.7
24 1,1,1-Trichloroethane	97.00	7.274	7.271	(0.886)	780918	51.0	51.0
1,1-Dichloropropene	75.00	7.473	7.470	(0.910)	490555	51.3	51.3
Carbon tetrachloride	117.00	7.498	7.487	(0.913)	824171	51.1	51.1
1,2-Dichloroethane-D4 (SURR)	65.00	7.656	7.696	(0.932)	476397	42.2	42.2
28 Benzene	78.00	7.739	7.736	(0.943)	729028	53.1	53.1
29 1,2-Dichloroethane	62.00	7.764	7.736	(1.117)	546781	59.1	59.1

Data File: /chem/msa.i/a012396.b/a5814.d
Report Date: 24-Jan-1996 11:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	30 1,4-Difluorobenzene (ISTD)	114.00	8.210	8.249	(1.000)	1239537	50.0	
	31 Trichloroethylene	130.00	8.599	8.580	(1.047)	600252	48.5	48.5
	32 1,2-Dichloropropane	63.00	8.896	8.894	(1.084)	513641	51.6	51.6
	33 Dibromomethane	93.00	9.070	9.059	(1.105)	697729	50.0	50.0
	34 Dichlorobromomethane	83.00	9.277	9.266	(1.130)	1176879	50.8	50.8
	36 cis-1,3-Dichloropropylene	75.00	9.921	9.910	(1.208)	795349	49.7	49.7
	37 Methyl-iso-butyl ketone	43.00	10.152	10.149	(0.804)	528594	50.3	50.3
$	38 Toluene-D8 (SURR)	98.00	10.334	10.363	(0.818)	1138473	48.6	48.6
	39 Toluene	91.00	10.433	10.430	(0.826)	1263019	51.2	51.2
	40 trans-1,3-Dichloropropylene	75.00	10.739	10.736	(1.303)	701297	49.5	49.5
	41 1,1,2-Trichloroethane	97.00	11.037	11.034	(1.344)	553589	49.8	49.8
	42 Tetrachloroethylene	164.00	11.301	11.298	(0.995)	618215	51.3	51.3
	43 1,3-Dichloropropane	76.00	11.301	11.307	(0.995)	769790	51.0	51.0
	44 2-Hexanone	43.00	11.434	11.439	(0.905)	402363	51.7	51.7
	45 Chlorodibromomethane	129.00	11.682	11.679	(1.423)	1309945	49.7	49.7
	46 Ethylene dibromide	107.00	11.872	11.869	(0.940)	977154	50.8	50.8
*	47 Chlorobenzene-d5 (ISTD)	117.00	12.631	12.641	(1.000)	1113713	50.0	
	48 Chlorobenzene	112.00	12.681	12.678	(1.004)	1114893	50.6	50.6
	49 1,1,1,2-Tetrachloroethane	133.00	12.805	12.810	(1.014)	715441	51.4	51.4
	50 Ethylbenzene	106.00	12.855	12.852	(1.018)	491135	51.4	51.4
	51 m+p-Xylenes	106.00	13.054	13.051	(1.033)	1118280	99.6	99.6
	o-Xylene	106.00	13.723	13.728	(1.086)	577885	52.3	52.3
	Styrene	104.00	13.747	13.744	(1.088)	1018436	50.6	50.6
	54 Bromoform	173.00	14.061	14.067	(1.713)	1088407	49.2	49.2
	55 Isopropylbenzene	105.00	14.359	14.356	(1.137)	1742021	49.4	49.4
$	56 Bromofluorobenzene (SURR)	95.00	14.607	14.622	(1.156)	953122	52.0	52.0
	57 1,1,2,2-Tetrachloroethane	83.00	14.831	14.828	(1.174)	989018	48.1	48.1
	58 1,2,3-Trichloropropane	75.00	14.906	14.894	(1.180)	771737	49.4	49.4
	59 Bromobenzene	156.00	14.864	14.861	(1.177)	732437	49.7	49.7
	60 n-Propylbenzene	91.00	15.030	15.035	(1.190)	2165270	50.0	50.0
	61 o-Chlorotoluene	91.00	15.171	15.168	(1.201)	1523696	50.6	50.6
	62 1,3,5-Trimethylbenzene	105.00	15.303	15.309	(1.212)	1465017	49.4	49.4
	63 p-Chlorotoluene	91.00	15.328	15.334	(1.214)	1683380	49.9	49.9
	64 tert-Butylbenzene	119.00	15.791	15.789	(1.250)	1540866	48.4	48.4
	65 1,2,4-Trimethylbenzene	105.00	15.866	15.863	(1.256)	1518617	49.8	49.8
	66 sec-Butylbenzene	105.00	16.106	16.111	(1.275)	2082369	49.0	49.0
	67 4-Isopropyltoluene	119.00	16.305	16.310	(1.291)	1719169	48.9	48.9
	68 1,3-Dichlorobenzene	146.00	16.263	16.261	(1.288)	1140895	49.1	49.1
	69 1,4-Dichlorobenzene	146.00	16.379	16.385	(1.297)	1192682	49.0	49.0
	70 n-Butylbenzene	91.00	16.851	16.849	(1.334)	1741964	49.6	49.6
	71 1,2-Dichlorobenzene	146.00	16.876	16.874	(1.336)	1109423	49.8	49.8
	72 1,2-Dibromo-3-chloropropane	75.00	17.843	17.849	(1.413)	303330	47.2	47.2
	73 1,2,4-Trichlorobenzene	180.00	18.957	18.964	(1.501)	1021050	48.0	48.0
	74 Hexachlorobutadiene	225.00	19.197	19.196	(1.520)	847945	46.4	46.4
	75 Naphthalene	128.00	19.305	19.305	(1.528)	1366364	48.0	48.0
	76 1,2,3-Trichlorobenzene	180.00	19.670	19.669	(1.557)	1013470	49.8	49.8

OHM Remediation Services Corp.
A Subsidiary of OHM Corporation

ANALYTICAL DIVISION

Laboratory Analysis

Report(s) #619550 VOLUME II OF III

Client: OHM Remediation Services Corp.
Southern Region (Norcross, GA)

Attn: Jim Dunn

Project: 17418N - Camp Lejeune, North Carolina

Sample(s) Received: January 18, 1996 **Order Received:** January 18, 1996

This report is "PROPRIETARY AND CONFIDENTIAL" and delivered to, and intended for the exclusive use of the above named client only. OHM Remediation Services Corp., Analytical Division, assumes no responsibility or liability for the reliance hereon or use hereof by anyone other than the above named client.

Reviewed and Approved by: Joseph A. Hnatow *Date:* March 4, 1996
Joseph A. Hnatow, Laboratory Manager

16406 U.S. Route 224 East ▪ P.O. Box 551 ▪ Findlay, OH 45839-0551 ▪ 419-423-3526

ORGANICS

Semi-volatile Organics by GC/MS

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Level: (low/med) ____

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	S7 (2CP)#	S8 (DCB)#	TOT OUT
01	SBLK01A	75	83	82	72	73	76			0
02	SSPK01A	84	83	83	73	81	96			0
03	CLJ78CS001MS	85	80	85	55	92	97			0
04	CLJ78CS001MSD	76	75	78	51	83	96			0
05	CLJ78CS001	68	76	82	49	81	100			0
06	CLJ78CS002	73	80	82	69	71	97			0
07	CLJ78CS003	59	70	84	61	60	100			0
08	CLJ78CS004	65	77	86	57	71	100			0
09	CLJ78CS005	52	61	80	52	54	99			0
10	CLJ78DS005	73	82	89	69	74	100			0

		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		(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4		(advisory)

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

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418 SAS No.: N/A SDG No.: CLJ78CS001

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	SBLK01B	75	77	82	62	71	77			0
02	SSPK01B	79	77	79	60	74	88			0
03	CLJ78RB001	68	72	79	62	67	88			0
04	CLJ78FB001	70	71	82	46	61	83			0
05	CLJ78IW001	0 D	0 D	0 D	0 D	0 D	0 D			0

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(35-114)	
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)	
S3 (TPH)	= Terphenyl-d14	(33-141)	
S4 (PHL)	= Phenol-d5	(10-110)	
S5 (2FP)	= 2-Fluorophenol	(21-110)	
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)	
S7 (2CP)	= 2-Chlorophenol-d4		(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4		(advisory)

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

3C
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix Spike - EPA Sample No.: CLJ78CS001 Level: (low/med) ____

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Phenol	6000	0	3700	62	26- 90
2-Chlorophenol	6000	0	3500	58	25-102
1,4-Dichlorobenzene	4000	0	2900	73	28-104
N-Nitroso-di-n-propylami	4000	0	3700	93	41-126
1,2,4-Trichlorobenzene	4000	0	3200	80	38-107
4-Chloro-3-methylphenol	6000	0	5100	85	26-103
Acenaphthene	4000	0	2900	73	31-137
4-Nitrophenol	6000	0	5400	90	11-114
2,4-Dinitrotoluene	4000	0	3500	88	28- 89
Pentachlorophenol	6000	0	6100	102	17-109
Pyrene	4000	0	3500	88	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	6000	3400	57	8	35	26- 90
2-Chlorophenol	6000	3100	52	12	50	25-102
1,4-Dichlorobenzene	4000	2600	65	11	27	28-104
N-Nitroso-di-n-propylami	4000	3400	85	8	38	41-126
1,2,4-Trichlorobenzene	4000	3000	75	6	23	38-107
4-Chloro-3-methylphenol	6000	4700	78	8	33	26-103
Acenaphthene	4000	2800	70	4	19	31-137
4-Nitrophenol	6000	4900	82	10	50	11-114
2,4-Dinitrotoluene	4000	3200	80	9	47	28- 89
Pentachlorophenol	6000	6300	105	3	47	17-109
Pyrene	4000	3300	83	6	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: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS: _____

3C
SOIL SEMIVOLATILE BLANK SPIKE RECOVERY

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix Spike - EPA Sample No.: SSPK01A

COMPOUND	SPIKE ADDED (ug/Kg)	BLANK CONCENTRATION (ug/Kg)	BS CONCENTRATION (ug/Kg)	BS % REC #	QC LIMITS REC.
Phenol	5000	0	3600	72	26- 90
2-Chlorophenol	5000	0	3600	72	25-102
1,4-Dichlorobenzene	3300	0	2800	85	28-104
N-Nitroso-di-n-propylami	3300	0	2700	82	41-126
1,2,4-Trichlorobenzene	3300	0	2700	82	38-107
4-Chloro-3-methylphenol	5000	0	4000	80	26-103
Acenaphthene	3300	0	2500	76	31-137
4-Nitrophenol	5000	0	4100	82	11-114
2,4-Dinitrotoluene	3300	0	2900	88	28- 89
Pentachlorophenol	5000	0	4500	90	17-109
Pyrene	3300	0	2800	85	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

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

3D
WATER SEMIVOLATILE BLANK SPIKE RECOVERY

0213

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418 SAS No.: N/A SDG No.: CLJ78CS001

Matrix Spike - EPA Sample No.: SSPK01B

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC LIMITS REC.
Phenol	150	0	88	59	12-110
2-Chlorophenol	150	0	96	64	27-123
1,4-Dichlorobenzene	100	0	49	49	36- 97
N-Nitroso-di-n-propylami	100	0	75	75	41-116
Isophorone	100	0	77	77	30-130
1,2,4-Trichlorobenzene	100	0	55	55	39- 98
4-Chloro-3-methylphenol	150	0	110	73	23- 97
Acenaphthene	100	0	65	65	46-118
4-Nitrophenol	150	0	100	67	10- 80
2,4-Dinitrotoluene	100	0	82	82	24- 96
Pentachlorophenol	150	0	140	93	9-103
Pyrene	100	0	82	82	26-127

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

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

Spike Recovery: 0 out of 12 outside limits

COMMENTS:

4B
SEMIVOLATILE METHOD BLANK SUMMARY

0214

EPA SAMPLE NO.

SBLK01A

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Lab File ID: B9521 Lab Sample ID: N2C60119C

Instrument ID: SB Date Extracted: 01/18/96

Matrix: (soil/water) SOIL Date Analyzed: 01/19/96

Level: (low/med) LOW Time Analyzed: 11:31

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	CLJ78CS001	JP2491C	B9525	01/19/96
02	CLJ78CS002	JP2492C	B9526	01/19/96
03	CLJ78CS003	JP2493C	B9527	01/19/96
04	CLJ78CS004	JP2494C	B9528	01/19/96
05	CLJ78CS005	JP2495C	B9529	01/19/96
06	CLJ78DS005	JP2496C	B9530	01/19/96
07	CLJ78CS001MSD	JP2491CR	B9524	01/19/96
08	SSPK01A	N2C60119CS	B9522	01/19/96
09	CLJ78CS001MS	JP2491CS	B9523	01/19/96

COMMENTS:

4B
SEMIVOLATILE METHOD BLANK SUMMARY **0215**

EPA SAMPLE NO.

SBLK01B

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418 SAS No.: N/A SDG No.: CLJ78CS001

Lab File ID: B9542 Lab Sample ID: N1C60123C

Instrument ID: SB Date Extracted: 01/19/96

Matrix: (soil/water) WATER Date Analyzed: 01/20/96

Level: (low/med) LOW Time Analyzed: 14:47

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	CLJ78RB001	JP2497C	B9544	01/20/96
02	CLJ78RB001	JP2497C	B9556	01/22/96
03	CLJ78FB001	JP2542C	B9545	01/20/96
04	CLJ78IW001	JP2541C	B9559	01/22/96
05	SSPK01B	N1C60123CS	B9543	01/20/96

COMMENTS:

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

0216

Lab Name: OHM Analytical DIV. Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78C5001

Lab File ID: 69399 DFTPP Injection Date: 01-12-96

Instrument ID: ms6.i DFTPP Injection Time: 1532

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	49.59
68	Less than 2.0% of mass 69	0.00 (0.00) 1
69	Mass 69 relative abundance	64.24
70	Less than 2.0% of mass 69	0.34 (0.52) 1
127	25.0 - 75.0% of mass 198	42.73
197	Less than 1.0% of mass 198	0.00
198	Base Peak, 100% relative abundance	100.00
199	5.0 to 9.0% of mass 198	7.63
275	10.0 - 30.0% of mass 198	15.94
365	Greater than 0.75% of mass 198	1.61
441	Present, but less than mass 443	7.99
442	40.0 - 110.0% of mass 198	52.47
443	15.0 - 24.0% of mass 442	10.78 (20.55) 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	SSTD020	SSTD020	b9401a	01-12-96	1640
02	SSTD050	SSTD050	b9402a	01-12-96	1726
03	SSTD080	SSTD080	b9403a	01-12-96	1811
04	SSTD120	SSTD120	b9404a	01-12-96	1857
05	SSTD160	SSTD160	b9405a	01-12-96	1942
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FORM V SV 3/90

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: OHM Analytical Div. Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Lab File ID: b9519a DFTPP Injection Date: 01-19-96

Instrument ID: ms6.i DFTPP Injection Time: 1022

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	50.35
68	Less than 2.0% of mass 69	0.00 (0.00) 1
69	Mass 69 relative abundance	62.98
70	Less than 2.0% of mass 69	0.18 (0.28) 1
127	25.0 - 75.0% of mass 198	42.21
197	Less than 1.0% of mass 198	0.00
198	Base Peak, 100% relative abundance	100.00
199	5.0 to 9.0% of mass 198	7.25
275	10.0 - 30.0% of mass 198	17.86
365	Greater than 0.75% of mass 198	1.98
441	Present, but less than mass 443	9.47
442	40.0 - 110.0% of mass 198	60.68
443	15.0 - 24.0% of mass 442	12.56 (20.70) 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	SB1K01A	N2C60119C	b9521	01-19-96	1131
02	SSPK01A	N2C60119CS	b9522	01-19-96	1218
03	CLJ78CS001 MS	JP2491CS	b9523	01-19-96	1305
04	CLJ78CS001 MSD	JP2491CR	b9524	01-19-96	1351
05	CLJ78CS001	JP2491C	b9525	01-19-96	1438
06	CLJ78CS002	JP2492C	b9526	01-19-96	1525
07	CLJ78CS003	JP2493C	b9527	01-19-96	1612
08	CLJ78CS004	JP2494C	b9528	01-19-96	1659
09	CLJ78CS005	JP2495C	b9529	01-19-96	1746
10	CLJ78DS005	JP2496C	b9530	01-19-96	1833
11	SSTD050	SSTD050	b9520	01-19-96	1044
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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

0218

Lab Name: OHM Analytical Div. Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78C5001

Lab File ID: b9536a DFTPP Injection Date: 01-20-96

Instrument ID: msb.i DFTPP Injection Time: 1033

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	53.23
68	Less than 2.0% of mass 69	0.00 (0.00) 1
69	Mass 69 relative abundance	64.06
70	Less than 2.0% of mass 69	0.15 (0.24) 1
127	25.0 - 75.0% of mass 198	41.78
197	Less than 1.0% of mass 198	0.00
198	Base Peak, 100% relative abundance	100.00
199	5.0 to 9.0% of mass 198	6.96
275	10.0 - 30.0% of mass 198	15.80
365	Greater than 0.75% of mass 198	1.78
441	Present, but less than mass 443	8.88
442	40.0 - 110.0% of mass 198	55.63
443	15.0 - 24.0% of mass 442	11.55 (20.77) 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	SBLK01B	NIC60123C	b9542	01-20-96	1447
02	SSPK01B	NIC60123CS	b9543	01-20-96	1534
03	CLJ78RB001	JP2497C	b9544	01-20-96	1621
04	SSTD050	SSTD050	b9537	01-20-96	1052
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: OHM Analytical Div. Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78C5001

Lab File ID: b9554 DFTPP Injection Date: 01-22-96

Instrument ID: ms6.i DFTPP Injection Time: 0858

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	52.65
68	Less than 2.0% of mass 69	0.00 (0.00) 1
69	Mass 69 relative abundance	65.33
70	Less than 2.0% of mass 69	0.20 (0.31) 1
127	25.0 - 75.0% of mass 198	43.51
197	Less than 1.0% of mass 198	0.00
198	Base Peak, 100% relative abundance	100.00
199	5.0 to 9.0% of mass 198	7.25
275	10.0 - 30.0% of mass 198	18.79
365	Greater than 0.75% of mass 198	2.06
441	Present, but less than mass 443	10.38
442	40.0 - 110.0% of mass 198	65.23
443	15.0 - 24.0% of mass 442	13.09 (20.06) 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	CLJ78RB001	JP2497C	b9556	01-22-96	1004
02	SSTD050	SSTD050	b9555	01-22-96	0917
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8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: OHM Analytical Div. Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78C5001

Lab File ID (Standard): b9520 Date Analyzed: 01-19-96

Instrument ID: ms6.i Time Analyzed: 1044

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	1757239	7.52	6010309	9.39	3205671	12.62
	UPPER LIMIT	3514478	8.02	12020618	9.89	6411342	13.12
	LOWER LIMIT	878620	7.02	3005154	8.89	1602836	12.12
	EPA SAMPLE NO.						
01	SB1K01A	1519939	7.52	4723454	9.37	2523864	12.61
02	SSPK01A	1544754	7.53	5185150	9.38	2868417	12.61
03	CLJ78CS001MS	1404308	7.53	5495280	9.38	3059514	12.62
04	CLJ78CS001MSD	1374100	7.52	5392032	9.37	3023802	12.61
05	CLJ78CS001	1476361	7.52	5467774	9.37	2973144	12.60
06	CLJ78CS002	1610816	7.52	5067425	9.37	2722009	12.59
07	CLJ78CS003	1735957	7.52	5513501	9.36	3053982	12.60
08	CLJ78CS004	1497861	7.52	5168059	9.36	2846883	12.60
09	CLJ78CS005	1643357	7.51	5378867	9.37	2938242	12.59
10	CLJ78DS005	1574983	7.51	5192154	9.36	2800240	12.60
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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

0221

Lab Name: OHM Analytical Div Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Lab File ID (Standard): 69520 Date Analyzed: 01-19-96

Instrument ID: ms6.i Time Analyzed: 1044

	IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD	4971761	15.60	3915817	21.13	3702010	25.03
UPPER LIMIT	9943522	16.10	7831634	21.63	7404020	25.53
LOWER LIMIT	2485880	15.10	1957908	20.63	1851005	24.53
EPA SAMPLE NO.						
01 SB1K01A	3787160	15.59	2983251	21.11	2975837	25.01
02 SSPK01A	4587289	15.60	3412966	21.12	3090951	25.02
03 CLJ78CS001MS	4944931	15.60	3469301	21.13	3014748	25.01
04 CLJ78CS001MSD	4703559	15.59	3526999	21.12	2799960	25.01
05 CLJ78CS001	4686311	15.58	3459987	21.10	3013677	25.00
06 CLJ78CS002	4219188	15.58	3370342	21.10	2973463	24.99
07 CLJ78CS003	4894802	15.59	3503592	21.11	2550485	25.00
08 CLJ78CS004	4510144	15.58	3281655	21.10	2296452	24.99
09 CLJ78CS005	4639641	15.58	3364617	21.10	2544434	24.98
10 CLJ78DS005	4436343	15.58	3146193	21.10	2450394	24.97
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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.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0222

Lab Name: OHM Analytical Div. Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Lab File ID (Standard): 69537a Date Analyzed: 01-20-96

Instrument ID: msb.i Time Analyzed: 1052

	IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
12 HOUR STD	1988974	7.50	6716315	9.35	3678453	12.58
UPPER LIMIT	3977948	8.00	13432630	9.85	7356906	13.08
LOWER LIMIT	994487	7.00	3358158	8.85	1839226	12.08
EPA SAMPLE NO.						
01 SBLK01B	2022931	7.50	6475164	9.35	3375472	12.58
02 SSPK01B	2063295	7.50	6937974	9.36	3691780	12.59
03 CLJ78RB001	2039540	7.50	6585667	9.35	3490231	12.58
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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

0223

Lab Name: OHM Analytical Div. Contract: NFESC

Lab Code: N/A Case No.: 17419N SAS No.: N/A SDG No.: CLJ78C5001

Lab File ID (Standard): b9537a Date Analyzed: 01-20-96

Instrument ID: msb.i Time Analyzed: 1052

	IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD	5727188	15.57	4441405	21.09	4319755	24.97
UPPER LIMIT	11454376	16.07	8882810	21.59	8639510	25.47
LOWER LIMIT	2863594	15.07	2220702	20.59	2159878	24.47
EPA SAMPLE NO.						
01 SB1K01B	5216496	15.56	3890230	21.09	4217547	24.97
02 SSPK01B	5884256	15.58	4273357	21.10	4117050	24.98
03 CLJ78B001	5541502	15.57	4363816	21.09	4308598	24.96
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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: OHM Analytical Div. Contract: NEESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78C5001

Lab File ID (Standard): b9555 Date Analyzed: 01-22-96

Instrument ID: msb.i Time Analyzed: 0917

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	1665829	7.52	5635021	9.36	3215354	12.59
	UPPER LIMIT	3331658	8.02	11270042	9.86	6430708	13.09
	LOWER LIMIT	832914	7.02	2817510	8.86	1607677	12.09
	EPA SAMPLE NO.						
01	CLJ78R8001	1851055	7.51	5998604	9.36	3378201	12.59
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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

0225

Lab Name: OHM Analytical Div. Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78C5001

Lab File ID (Standard): b9555 Date Analyzed: 01-22-96

Instrument ID: msb.i Time Analyzed: 0917

	IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD	4905964	15.58	3586338	21.10	2970379	24.99
UPPER LIMIT	9811928	16.08	7172676	21.60	5940758	25.49
LOWER LIMIT	2452982	15.08	1793169	20.60	1485190	24.49
EPA SAMPLE NO.						
01 CLJ78RB001	5100166	15.57	3812075	21.09	3360608	24.98
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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.

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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 0226 EPA SAMPLE NO.

CLJ78CS001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2491C

Sample wt/vol: 30.5 (g/mL) G Lab File ID: B9525

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: 18 decanted: (Y/N) N Date Extracted: 01/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	400	U
111-44-4	bis(2-Chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	400	U
131-11-3	Dimethylphthalate	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	400	U
83-32-9	Acenaphthene	400	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 0227 EPA SAMPLE NO.

CLJ78CS001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2491C

Sample wt/vol: 30.5 (g/mL) G Lab File ID: B9525

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: 18 decanted: (Y/N) N Date Extracted: 01/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2000	U
100-02-7	4-Nitrophenol	2000	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	400	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
101-55-3	4-Bromophenyl-phenylether	400	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	400	U
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	400	U
129-00-0	Pyrene	400	U
85-68-7	Butylbenzylphthalate	87	J
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	U
218-01-9	Chrysene	400	U
117-81-7	bis(2-Ethylhexyl)phthalate	1800	
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	U
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenz(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 0228
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
CLJ78CS001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2491C

Sample wt/vol: 30.5 (g/mL) G Lab File ID: B9525

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: 18 decanted: (Y/N) N Date Extracted: 01/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-Pentanone, 4-hydroxy-4-met	5.88	4200	JNA
2. 111-65-9	Octane	6.05	930	JN
3. 111-84-2	Nonane	6.35	7700	JN
4. 589-43-5	Hexane, 2,4-dimethyl-	6.50	1100	JN
5.	Unk hydrocarbon	6.56	1800	J
6. 2051-30-1	Octane, 2,6-dimethyl-	6.64	3500	JN
7.	unknown	6.73	5700	J
8. 871-83-0	Nonane, 2-methyl-	6.90	12000	JN
9.	unknown	7.13	1900	J
10. 124-18-5	Decane	7.20	9100	JN
11. 7154-80-5	Heptane, 3,3,5-trimethyl-	7.44	3900	JN
12.	unknown	7.49	1200	J
13.	Unk substituted aromatic	7.55	2100	J
14.	Unk hydrocarbon	7.60	1800	J
15. 1678-98-4	Cyclohexane, (2-methylpropyl	7.67	4100	JN
16. 13151-35-4	Decane, 5-methyl-	7.74	1400	JN
17.	Unk substituted aromatic	7.88	4000	J
18. 91-17-8	Naphthalene, decahydro-	8.05	1400	JN
19. 1120-21-4	Undecane	8.14	3200	JN
20.	unknown	8.21	940	J

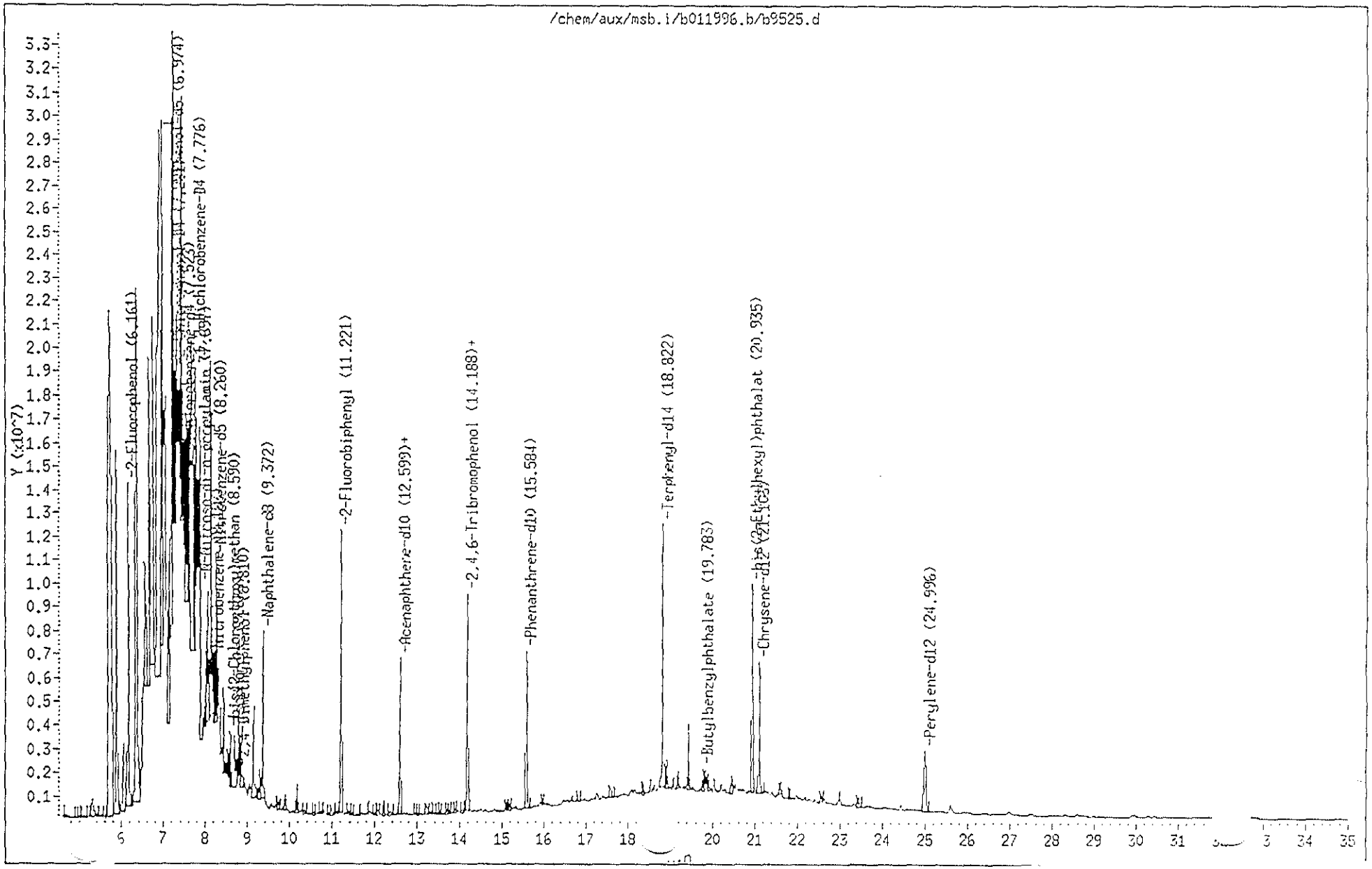
0229

Data File: /chem/aux/msb.i/b011996.b/b9525.d
Date : 19-JAN-96 14:38
Client ID:
Sample Info: 17418n clj78cs001

Column phase: J&W DB-5

Instrument: msb.i

Operator: K. Bigelow
Column diameter: 0.25



Data File: /chem/aux/msb.i/b011996.b/b9525.d
Report Date: 20-Jan-1996 09:16

OHM Analytical Division

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/aux/msb.i/b011996.b/b9525.d
Lab Smp Id:
Inj Date : 19-JAN-96 14:38
Operator : K. Bigelow Inst ID: msb.i
Smp Info : 17418n clj78cs001
Misc Info : jp2491c,n2c60119,ml,1,1
Comment :
Method : /chem/aux/msb.i/b011996.b/0112996bclp.m
Meth Date : 20-Jan-1996 09:14 kathryn Quant Type: ISTD
Cal Date : 19-JAN-96 10:44 Cal File: b9520.d
Als bottle: 7
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

K Bigelow

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
$	2	2-Fluorophenol	112.00	6.161	6.157	(0.819)	5994011	122	122(R)
$	4	Phenol-d5	99.00	6.974	6.976	(0.927)	4444422	74.0	74.0(QR)
$	7	2-Chlorophenol-D4	132.00	7.281	7.283	(0.968)	5105293	108	108(R)
•	10	1,4-Dichlorobenzene-d4	152.00	7.523	7.524	(1.000)	1476361	40.0	
$	13	1,2-Dichlorobenzene-D4	152.00	7.776	7.787	(1.034)	2278925	73.0	73.0(R)
	17	N-Nitroso-di-n-propylamine	70.00	7.897	7.995	(1.050)	221691	5.27	~~5.27~~(Q) ND, RT, MS
$	19	Nitrobenzene-d5	82.00	8.260	8.269	(0.881)	3876813	68.2	68.2(R)
	20	Nitrobenzene	77.00	8.183	8.291	(0.873)	190359	3.43	~~3.43~~(Q) ND, RT, MS
	21	Isophorone	82.00	8.667	8.597	(0.925)	298933	2.55	~~2.55~~ ND, MS
	22	2,4-Dimethylphenol	107.00	8.810	8.674	(0.940)	116880	2.22	~~2.22~~(Q) ND, RT, MS
	24	bis(2-Chloroethoxy)methane	93.00	8.590	8.827	(0.917)	152114	2.16	~~2.16~~(Q) ND, RT, MS
•	27	Naphthalene-d8	136.00	9.372	9.386	(1.000)	5467774	40.0	
$	37	2-Fluorobiphenyl	172.00	11.221	11.228	(0.891)	7277093	76.1	76.1(R)
•	44	Acenaphthene-d10	164.00	12.599	12.620	(1.000)	2973144	40.0	
	48	2,4-Dinitrotoluene	165.00	12.599	12.949	(1.000)	411426	10.5	~~10.5~~(Q) ND, RT, MS
$	55	2,4,6-Tribromophenol	330.00	14.188	14.200	(1.126)	2495364	150	150(R)
	57	4-Bromophenyl-phenylether	248.00	14.188	14.595	(0.910)	169946	5.37	~~5.37~~(Q) ND, RT, MS
•	60	Phenanthrene-d10	188.00	15.584	15.604	(1.000)	4686311	40.0	
$	68	Terphenyl-d14	244.00	18.822	18.826	(0.892)	7591435	82.4	82.4(R)
	69	Butylbenzylphthalate	149.00	19.783	19.791	(0.937)	172212	2.19	2.19
	70	bis(2-Ethylhexyl)phthalate	149.00	20.935	20.954	(0.992)	4412081	45.8	45.8
•	73	Chrysene-d12	240.00	21.103	21.131	(1.000)	3459987	40.0	
•	79	Perylene-d12	264.00	24.996	25.033	(1.000)	3013677	40.0	

Q Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: /chem/aux/msb.i/b011996.b/b9525.d

Date : 19-JAN-96 14:38

lient ID:

Instrument: msb.i

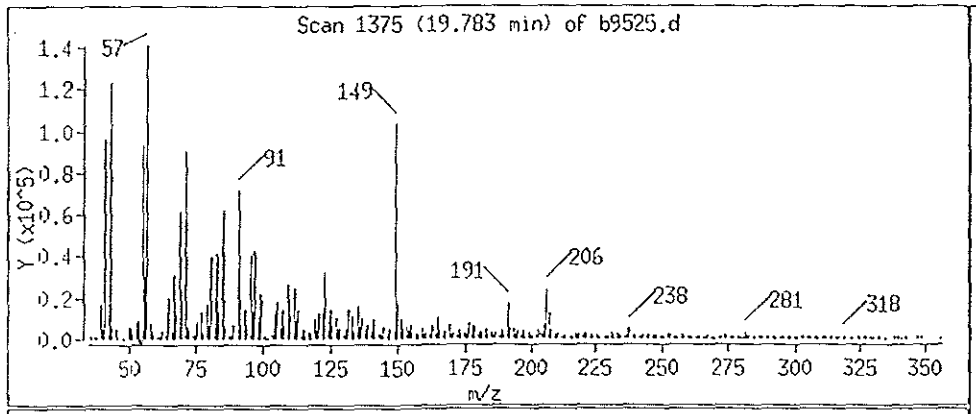
Sample Info: 17418n clj78cs001

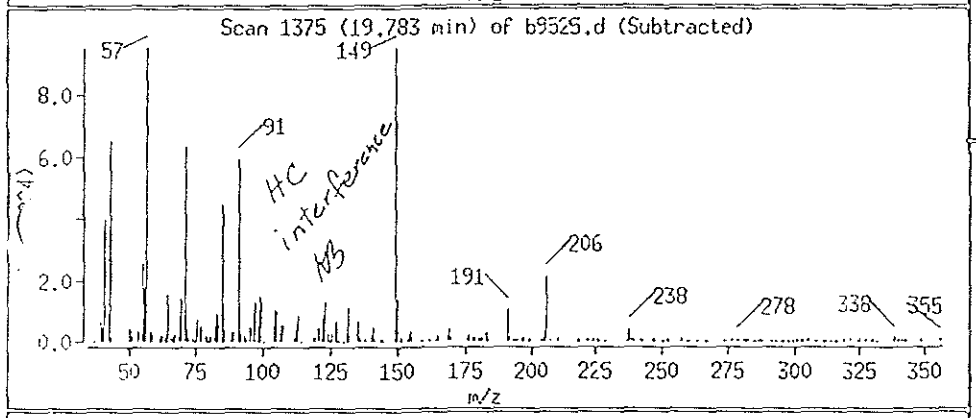
Operator: K. Bigelow

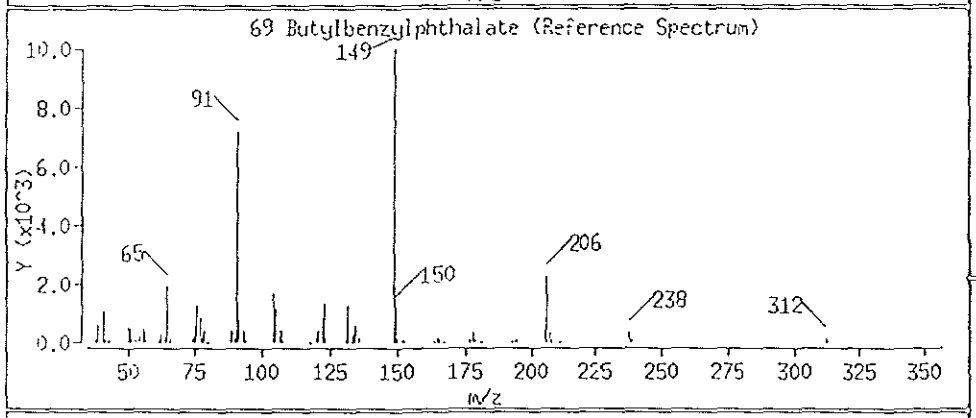
Column phase: J&W DB-5

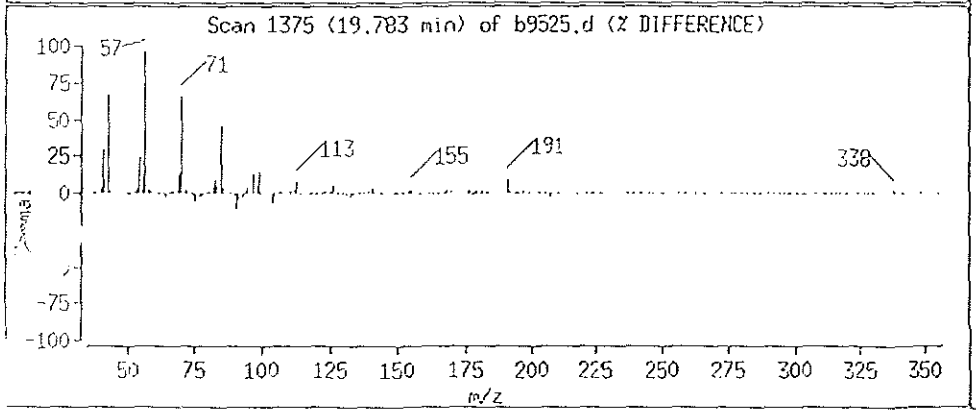
Column diameter: 0.25

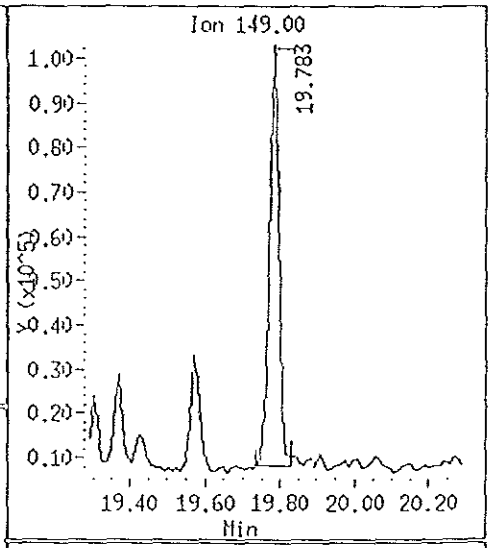
69 Butylbenzylphthalate

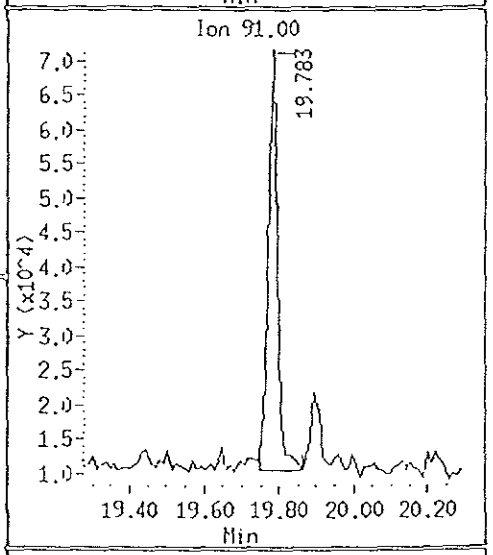


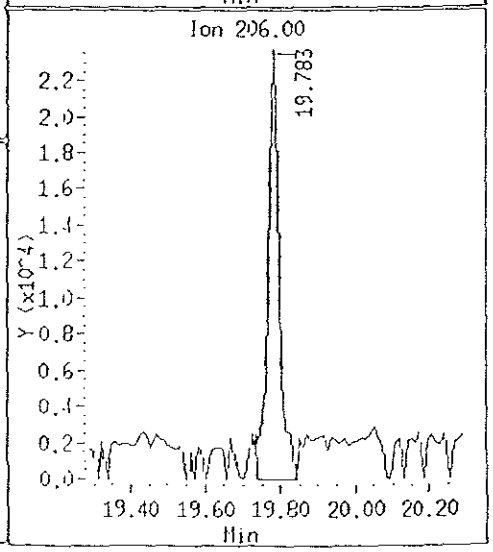












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Date : 19-JAN-96 14:38

lient ID:

Instrument: msb.i

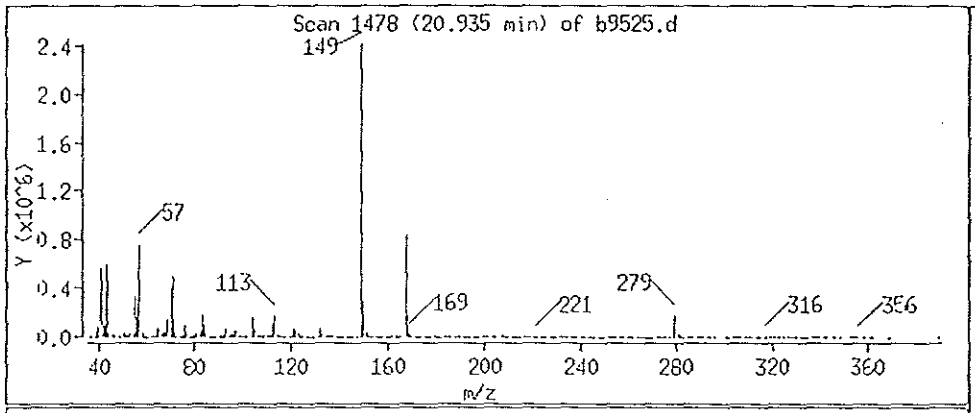
Sample Info: 17418n clj78cs001

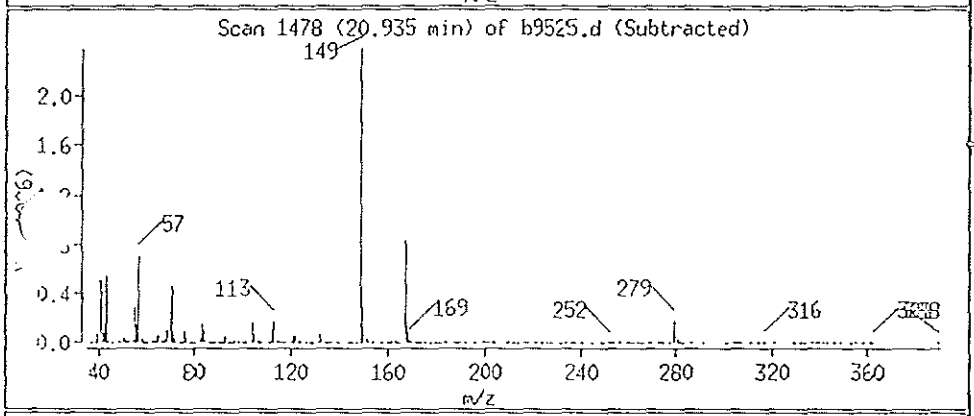
Operator: K. Bigelow

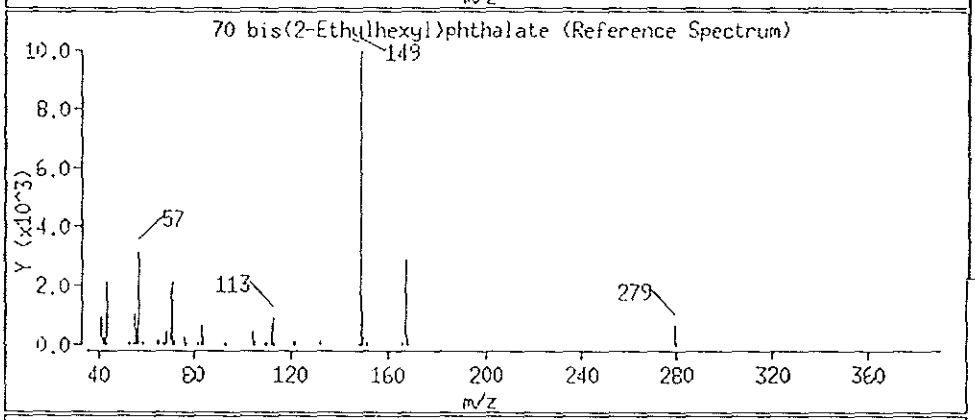
Column phase: J&W DB-5

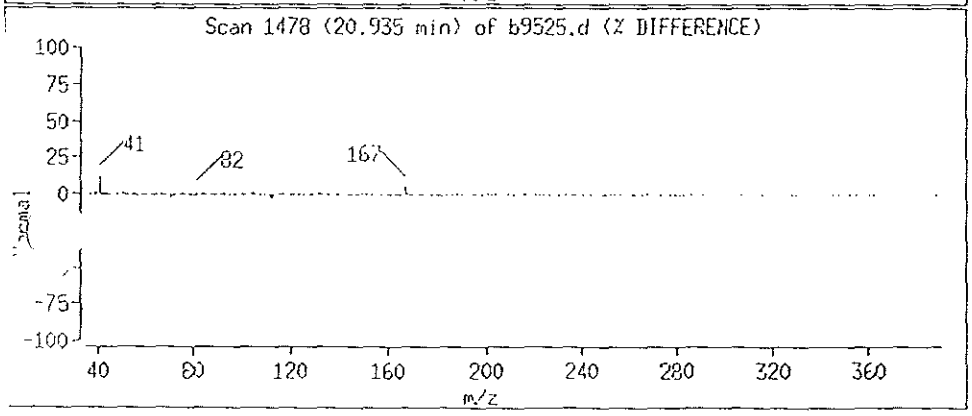
Column diameter: 0.25

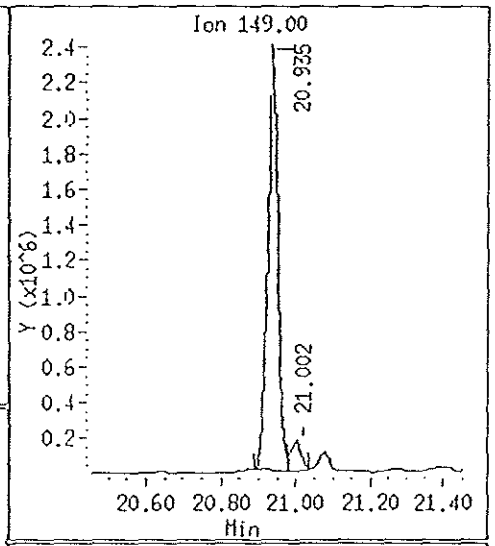
70 bis(2-Ethylhexyl)phthalate

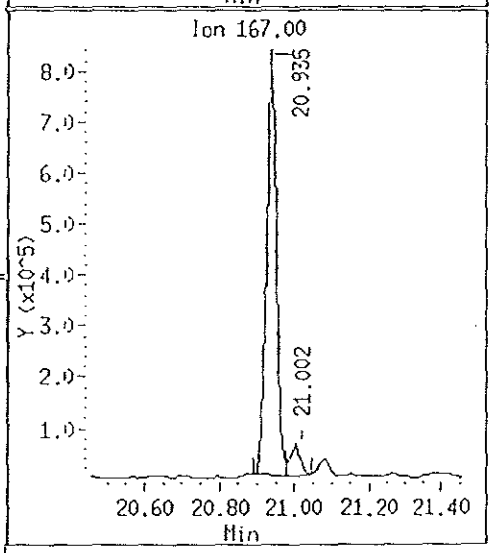












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Client ID:

Instrument: msb.i

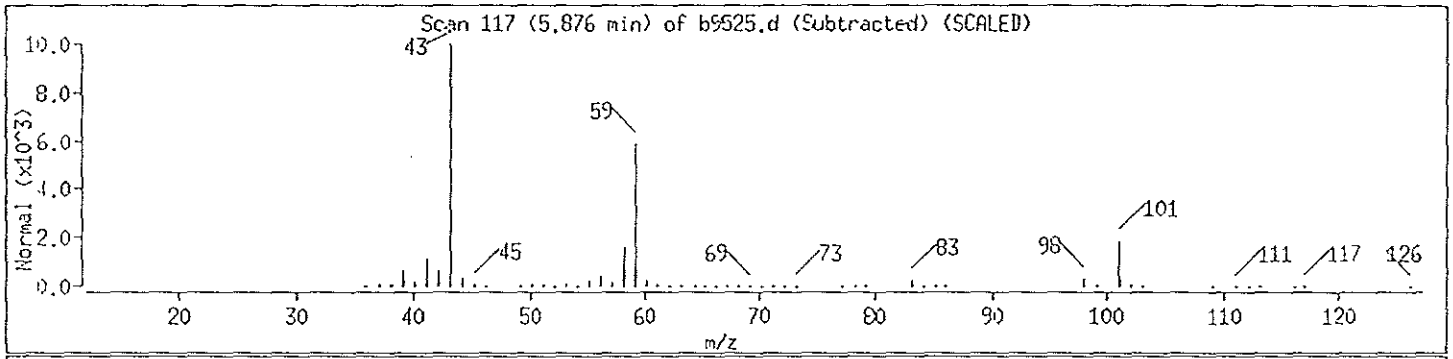
Sample Info: 17418n clj78cs001

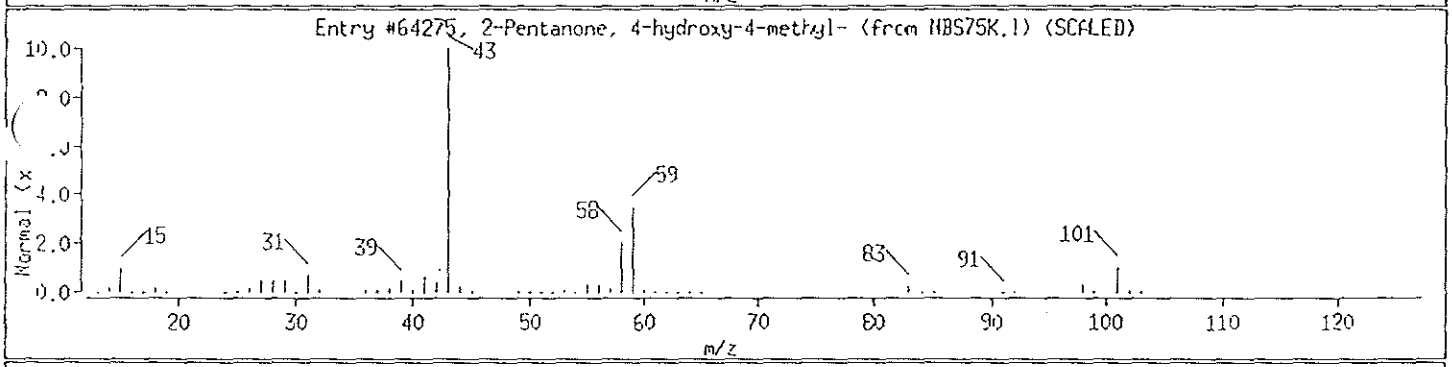
Operator: K. Bigelow

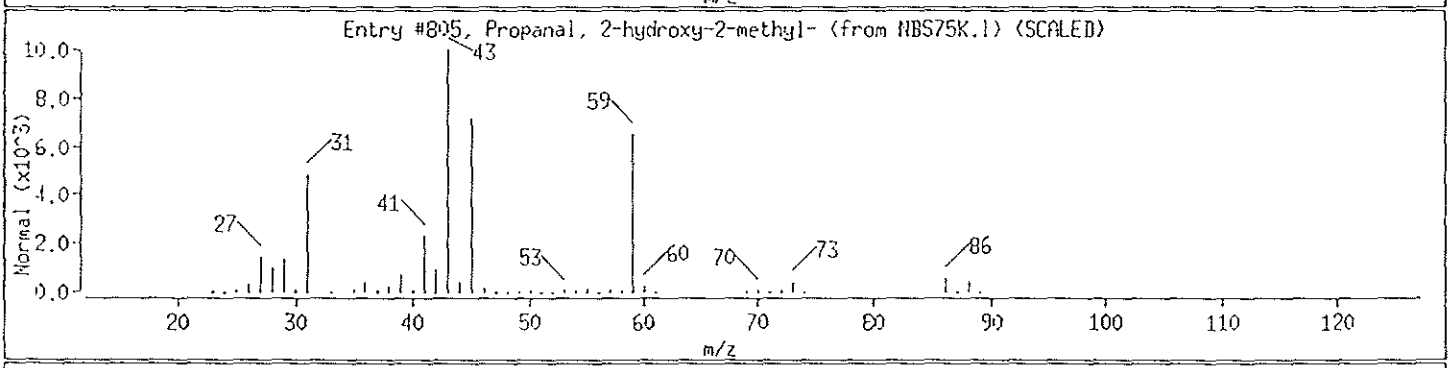
Column phase: J&W DB-5

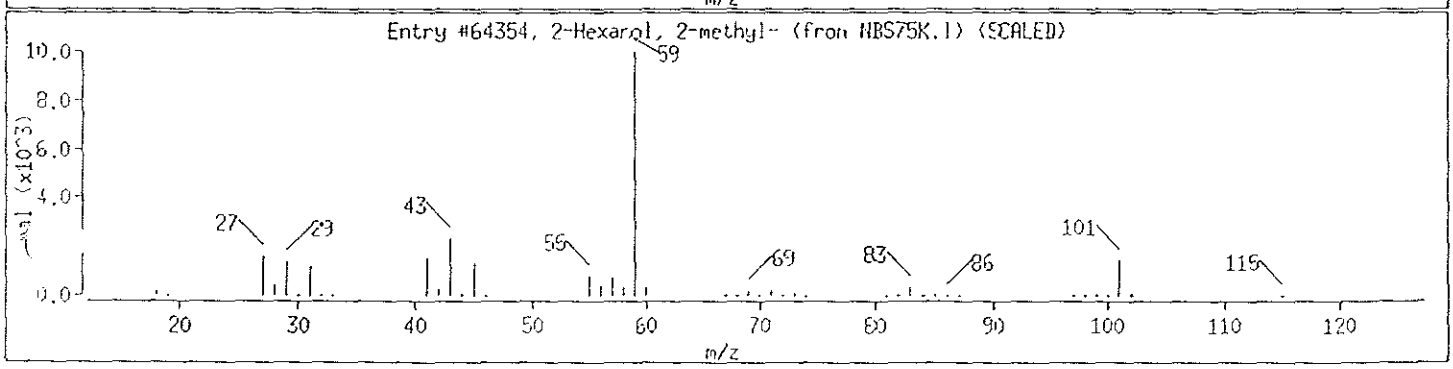
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NBS75K.l	64275	50	C6H12O2	116
Propanal, 2-hydroxy-2-methyl-	20818-81-9	NBS75K.l	805	33	C4H8O2	88
2-Hexanol, 2-methyl-	625-23-0	NBS75K.l	64354	33	C7H16O	116









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Client ID:

Instrument: msb.i

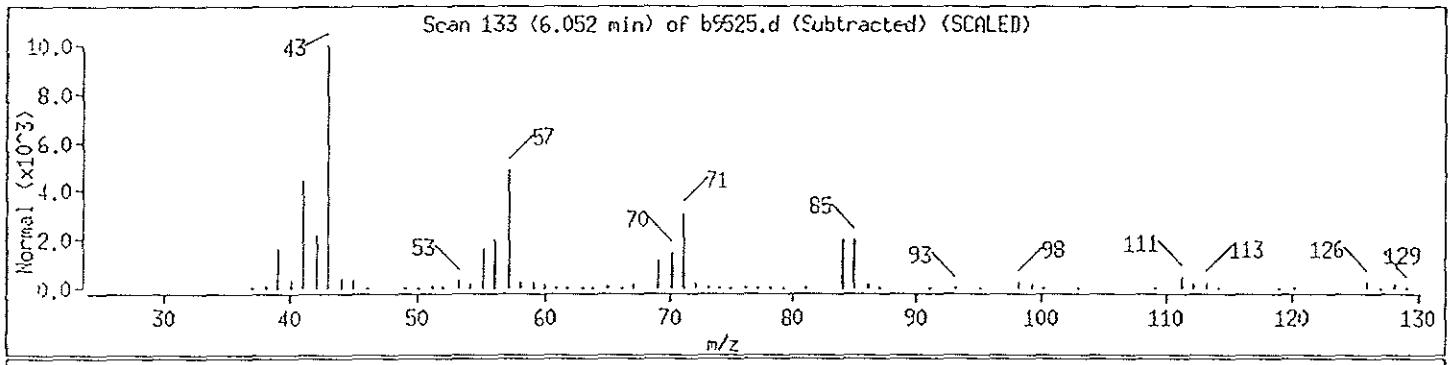
Sample Info: 17418n clj78cs001

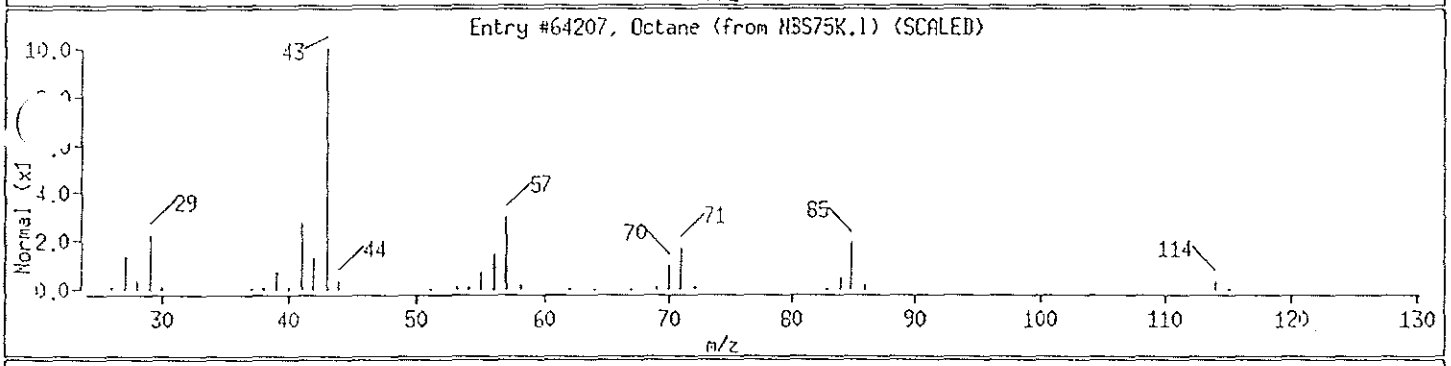
Operator: K. Bigelow

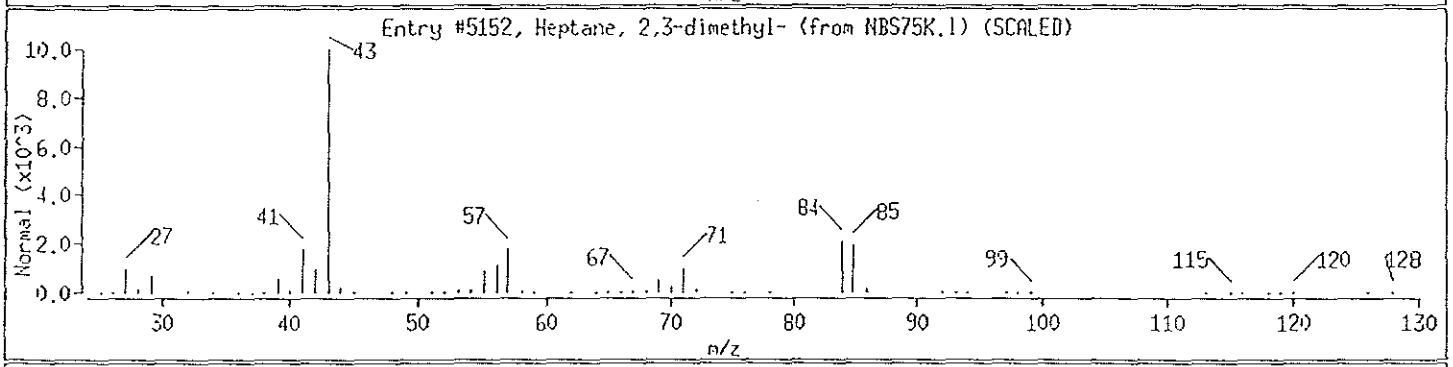
Column phase: J&W DB-5

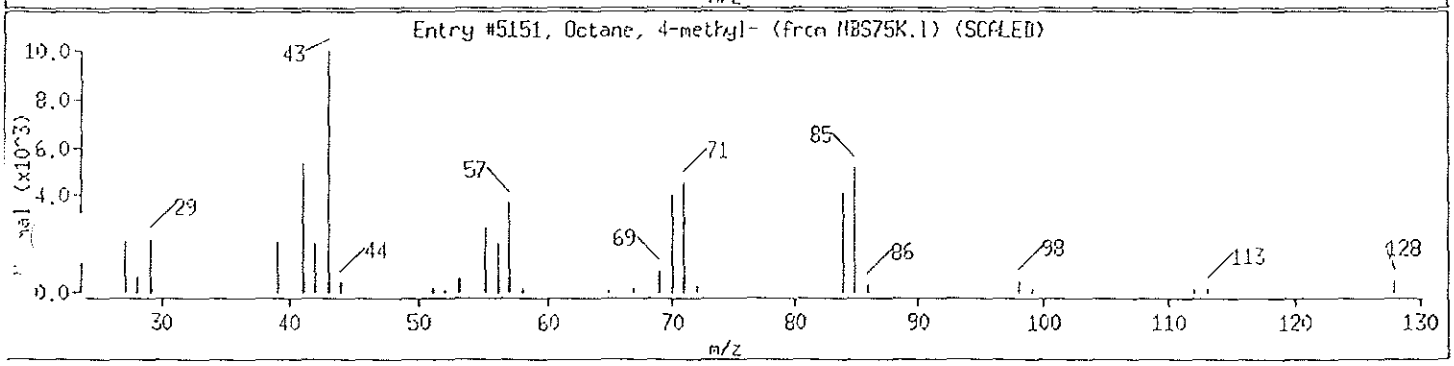
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Octane	111-65-9	NBS75K.l	64207	59	C8H18	114
Heptane, 2,3-dimethyl-	3074-71-3	NBS75K.l	5152	59	C9H20	128
Octane, 4-methyl-	2216-34-4	NBS75K.l	5151	59	C9H20	128









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Instrument: msb.i

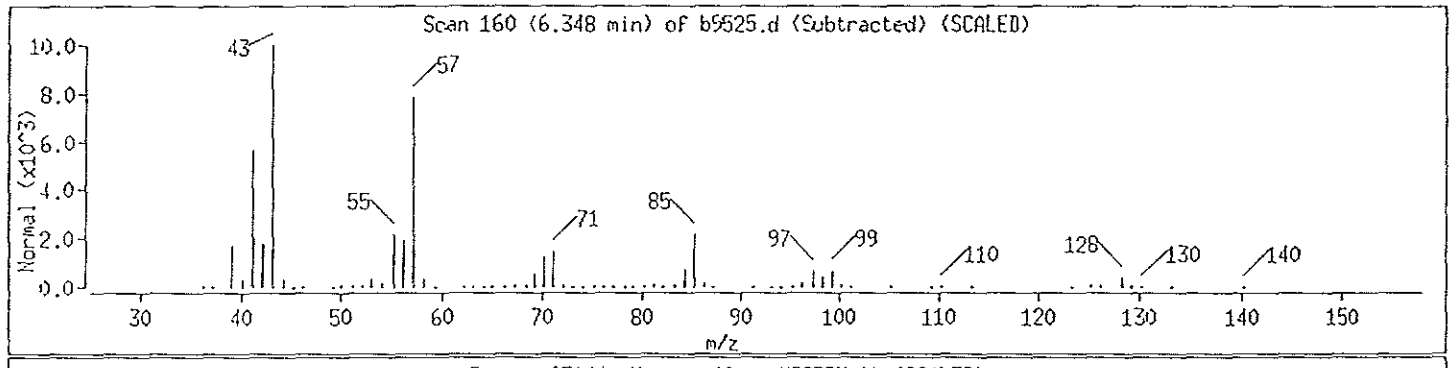
Sample Info: 17418n clj78cs001

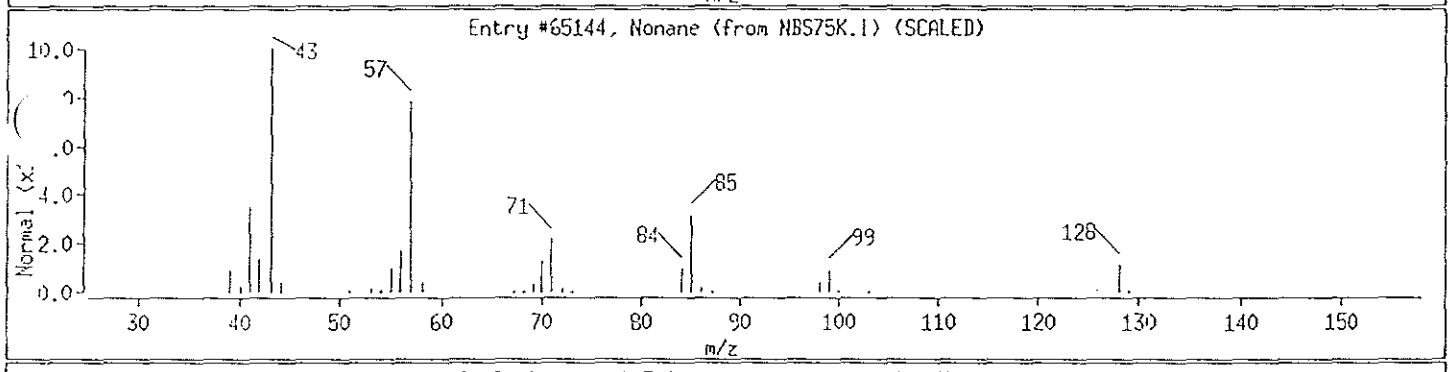
Operator: K. Bigelow

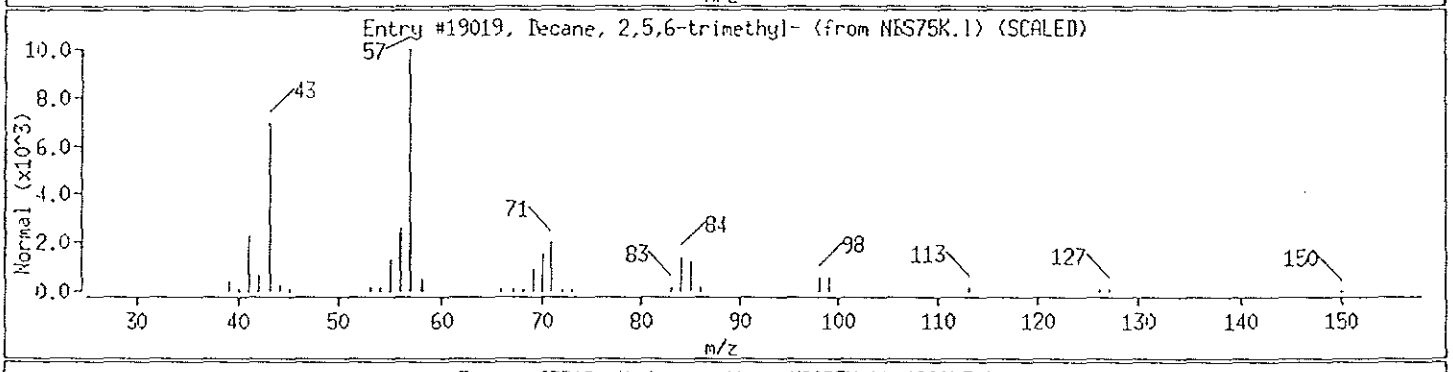
Column phase: J&W DB-5

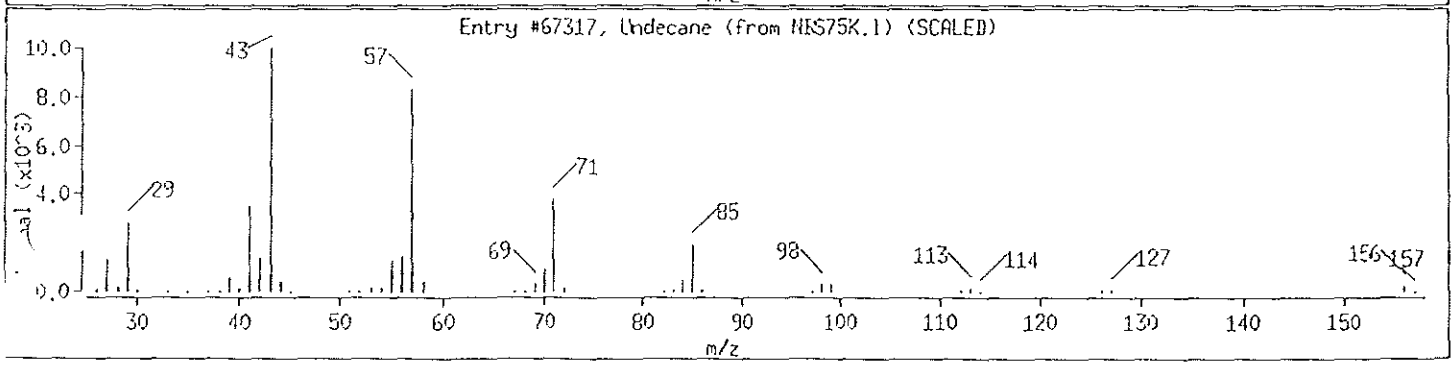
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonane	111-84-2	NBS75K.l	65144	94	C9H20	128
Decane, 2,5,6-trimethyl-	62108-23-0	NBS75K.l	19019	59	C13H28	184
Undecane	1120-21-4	NBS75K.l	67317	59	C11H24	156









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Client ID:

Instrument: msb.i

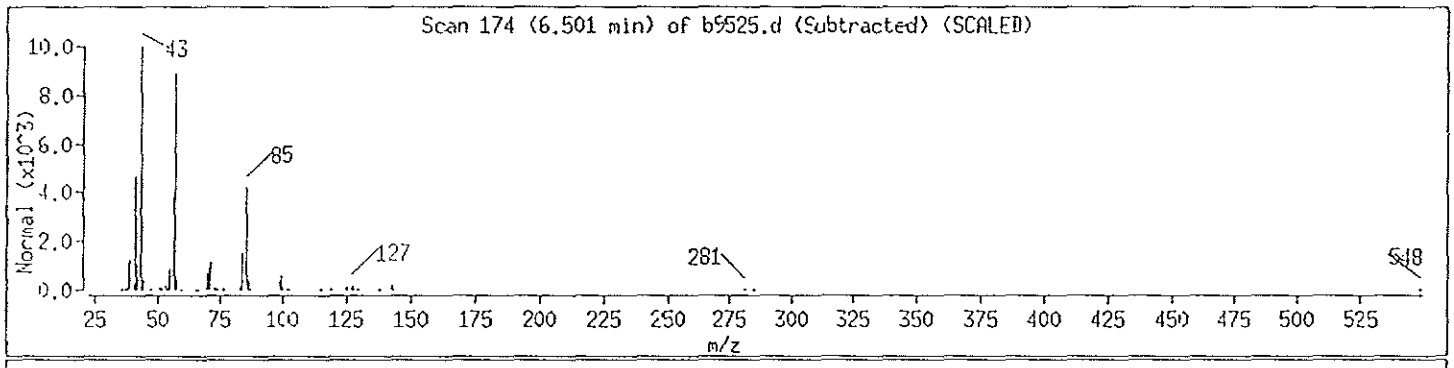
Sample Info: 17418n clj78cs001

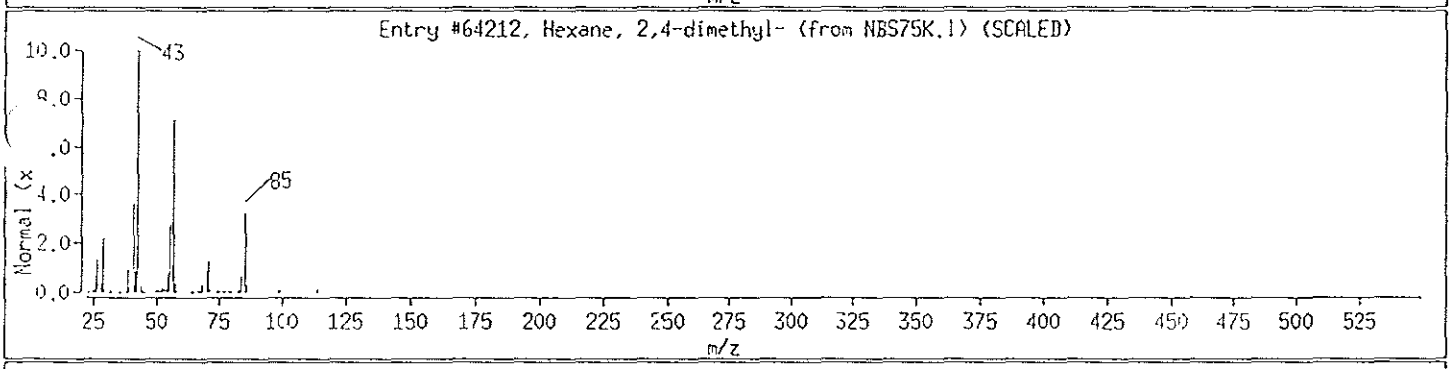
Operator: K. Bigelow

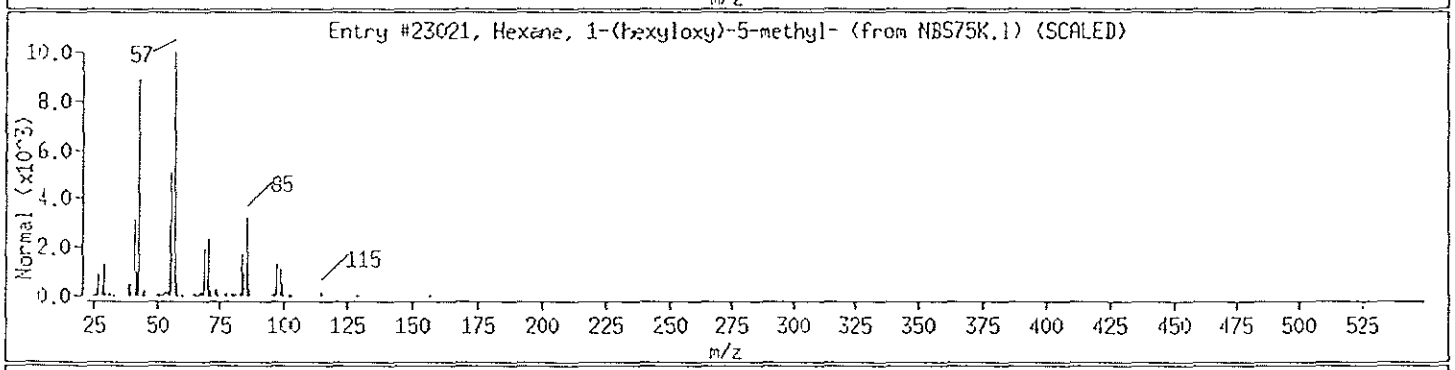
Column phase: J&W DB-5

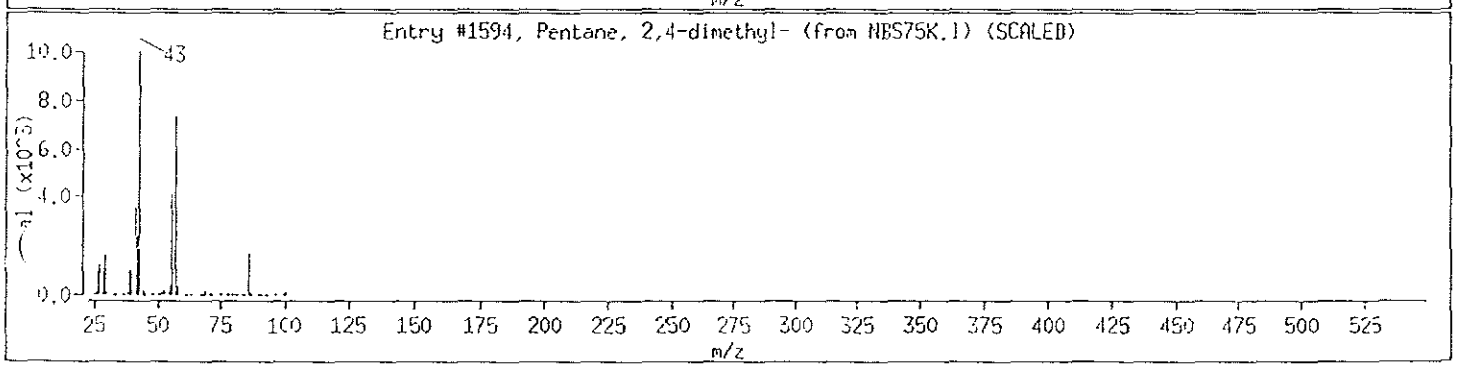
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Hexane, 2,4-dimethyl-	589-43-5	NBS75K.1	64212	78	C8H18	114
Hexane, 1-(hexyloxy)-5-methyl-	74421-19-5	NBS75K.1	23021	59	C13H28O	200
Pentane, 2,4-dimethyl-	108-08-7	NBS75K.1	1594	59	C7H16	100









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Client ID:

Instrument: msb.i

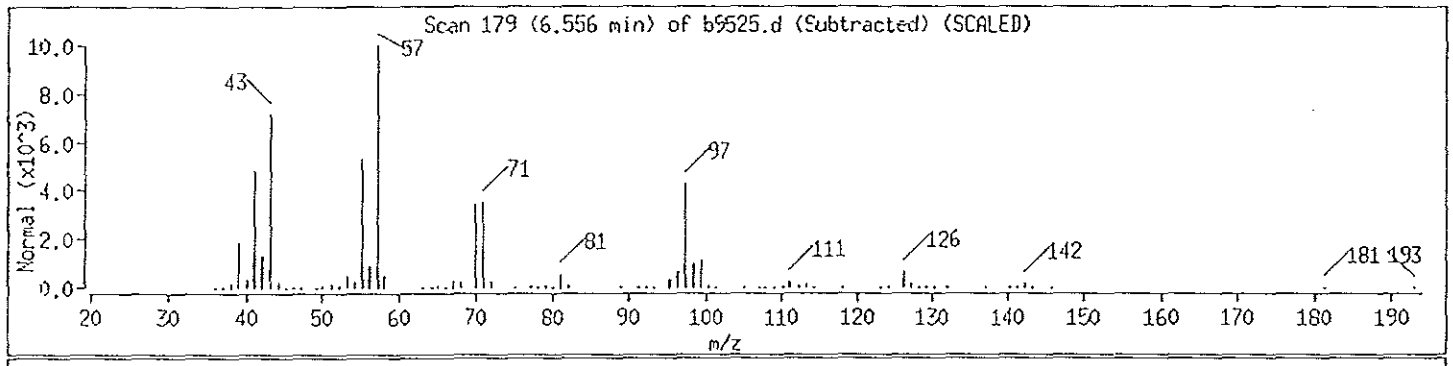
Sample Info: 17418n clj78cs001

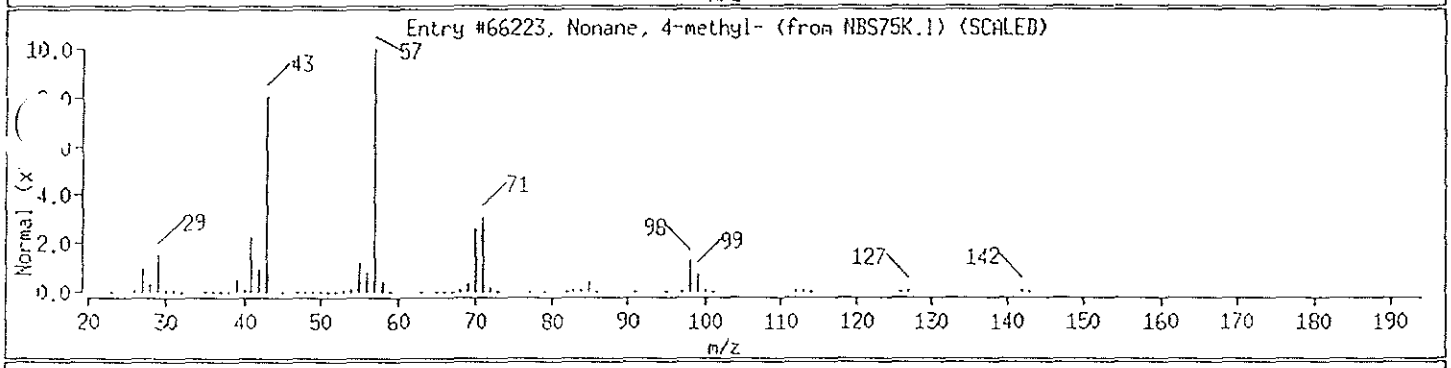
Operator: K. Bigelow

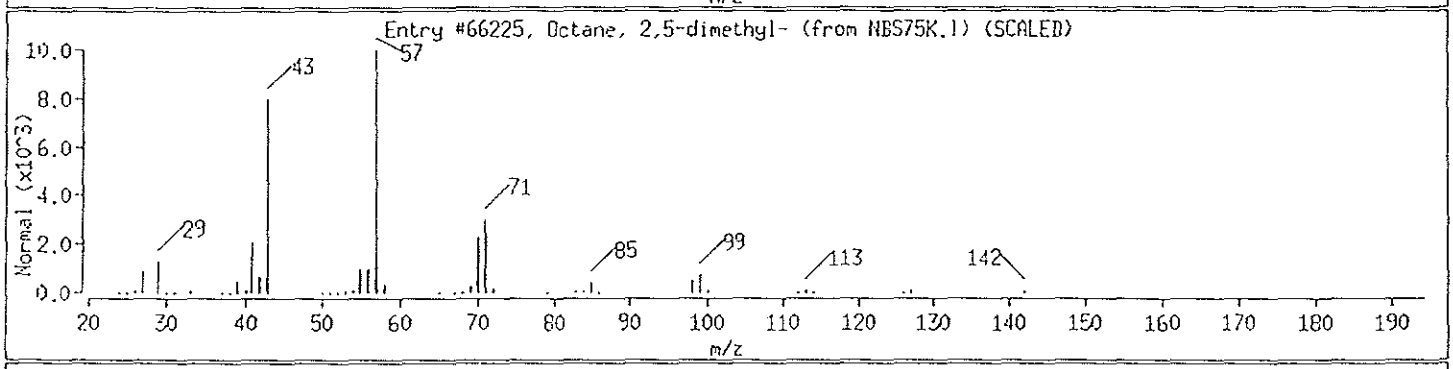
Column phase: J&W DB-5

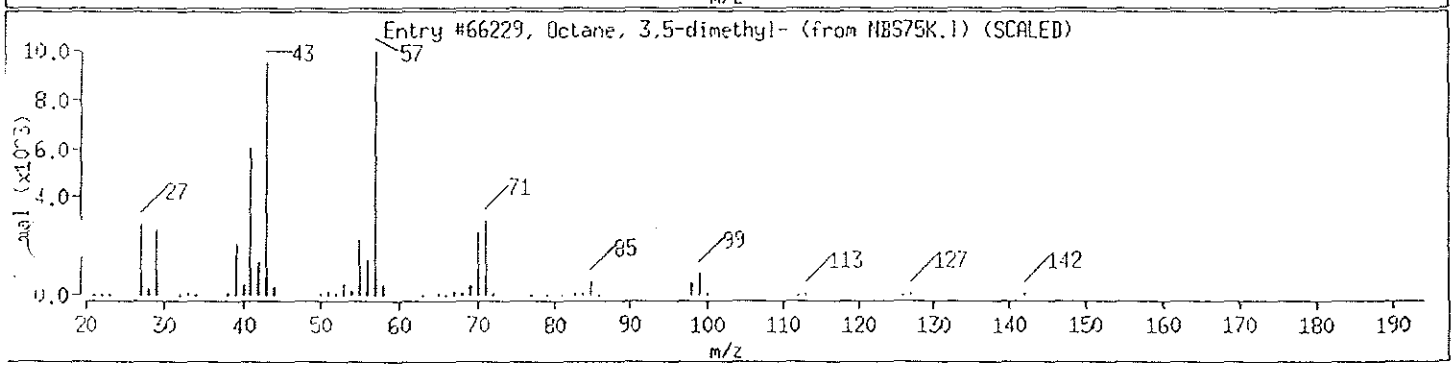
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonane, 4-methyl-	17301-94-9	NBS75K.l	66223	53	C10H22	142
Octane, 2,5-dimethyl-	15869-89-3	NBS75K.l	66225	49	C10H22	142
Octane, 3,5-dimethyl-	15869-93-9	NBS75K.l	66229	46	C10H22	142









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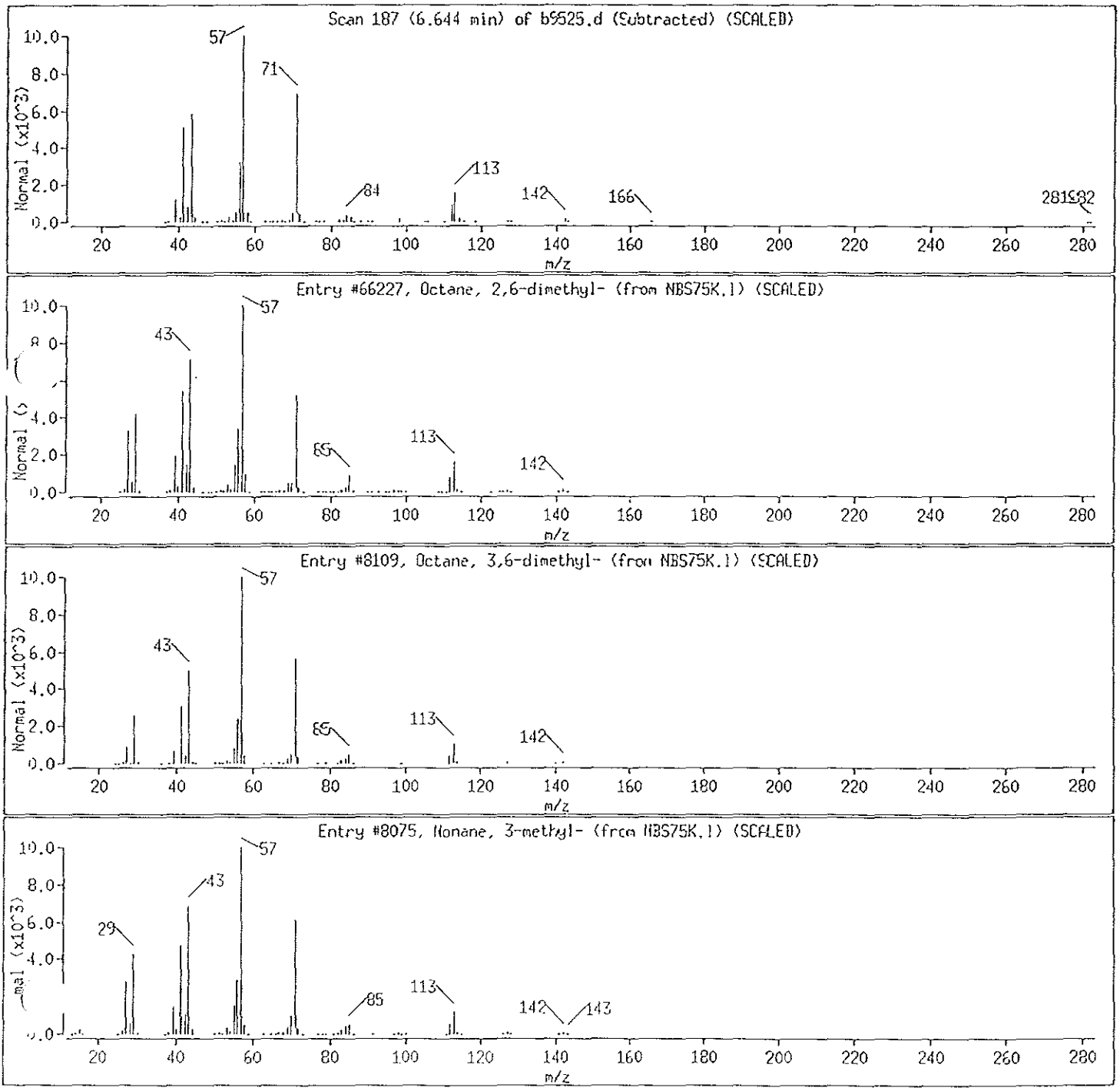
Instrument: msb.i
Operator: K. Bigelow
Column phase: J&W DB-5
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Octane, 2,6-dimethyl-	2051-30-1	NBS75K.l	66227	91	C10H22	142
Octane, 3,6-dimethyl-	15869-94-0	NBS75K.l	8109	90	C10H22	142
Nonane, 3-methyl-	5911-04-6	NBS75K.l	8075	86	C10H22	142



Data File: /chem/aux/msb.i/b011996.b/b9525.d

Date : 19-JAN-96 14:38

lient ID:

Instrument: msb.i

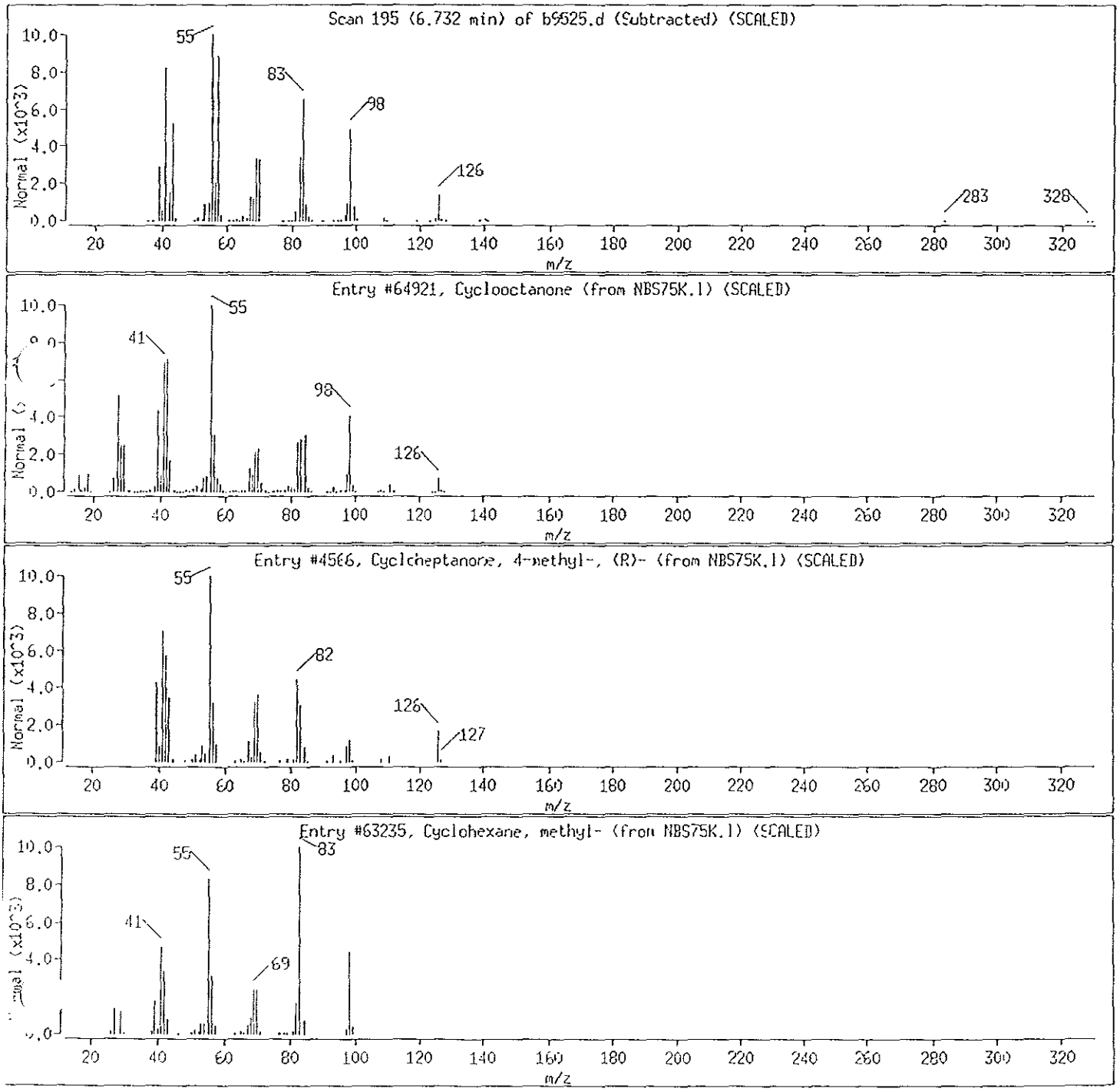
Sample Info: 17418n clj78cs001

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclooctanone	502-49-8	NBS75K.l	64921	52	C8H14O	126
Cycloheptanone, 4-methyl-, (R)-	13609-59-1	NBS75K.l	4566	49	C8H14O	126
Cyclohexane, methyl-	108-87-2	NBS75K.l	63235	43	C7H14	98



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Date : 19-JAN-96 14:38

Client ID:

Instrument: msb.i

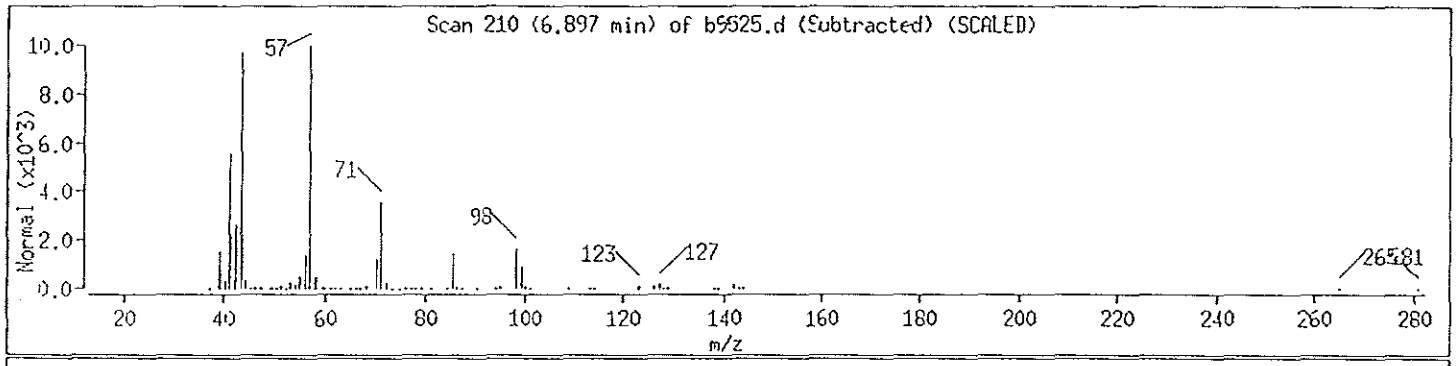
Sample Info: 17418n clj78cs001

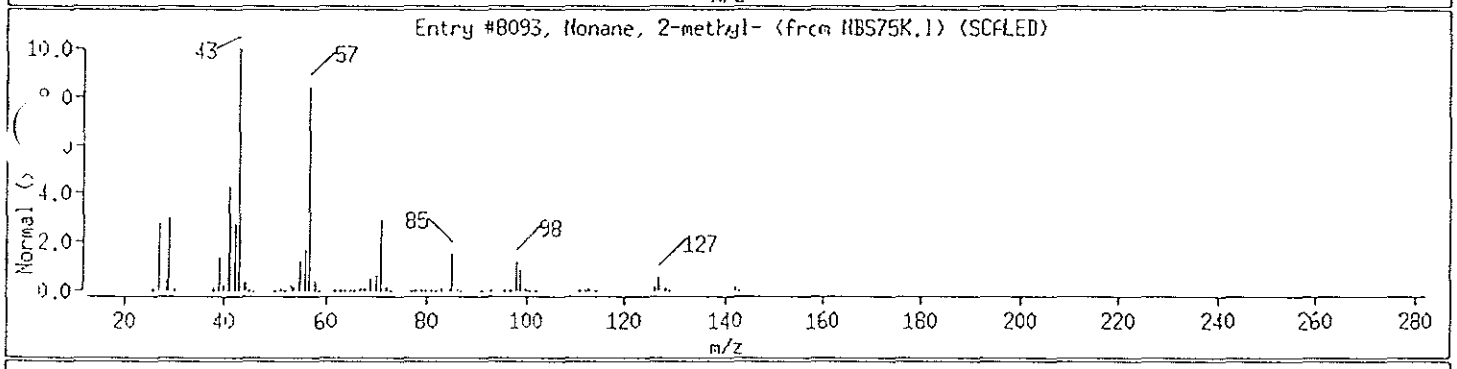
Operator: K. Bigelow

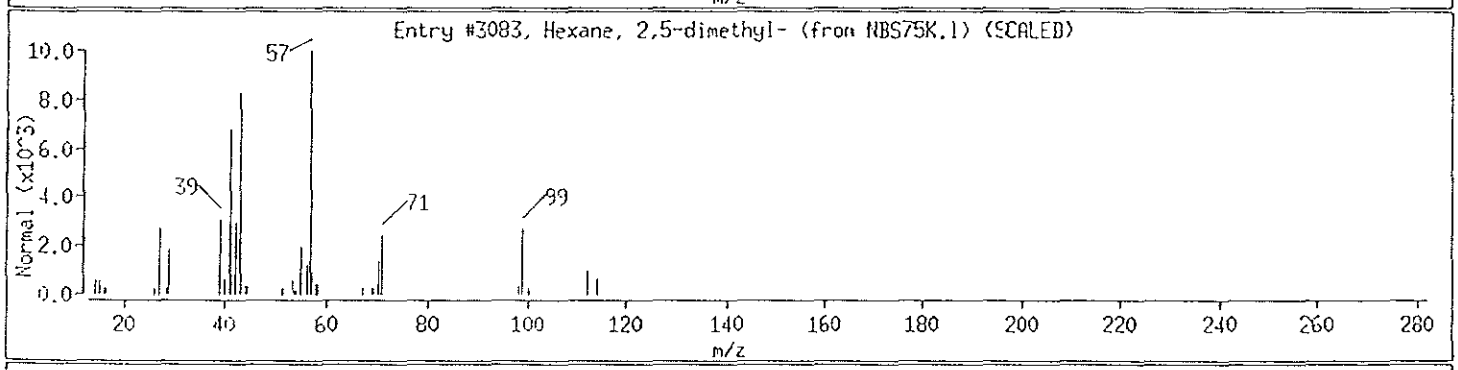
Column phase: J&W DB-5

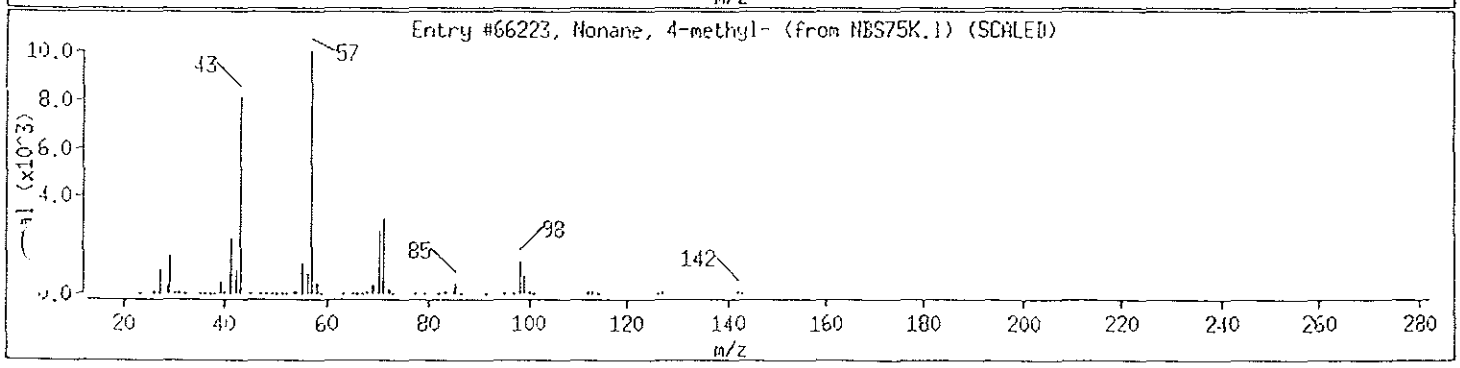
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonane, 2-methyl-	871-83-0	NBS75K.l	8093	90	C10H22	142
Hexane, 2,5-dimethyl-	592-13-2	NBS75K.l	3083	72	C8H18	114
Nonane, 4-methyl-	17301-94-9	NBS75K.l	66223	72	C10H22	142









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Client ID:

Instrument: msb.i

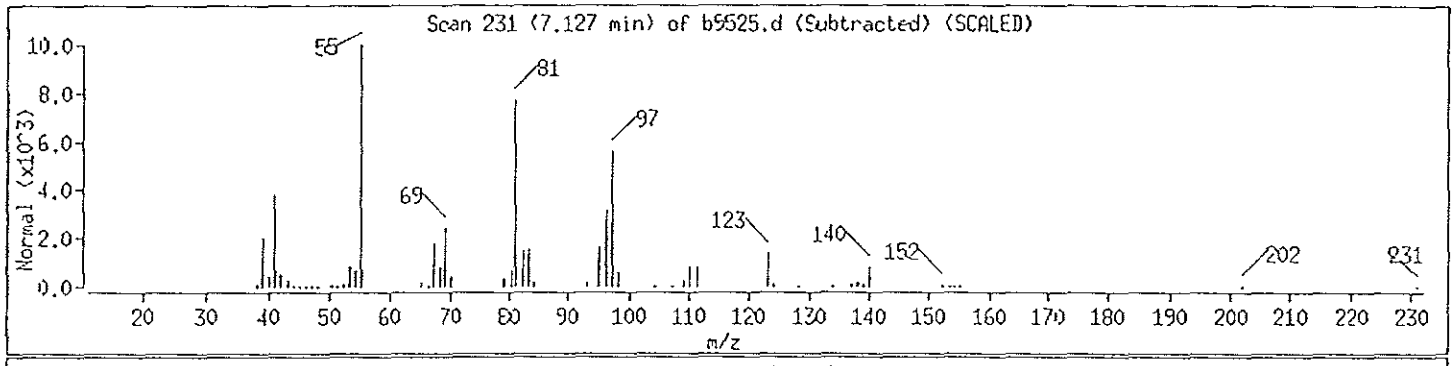
Sample Info: 17418n clj78cs001

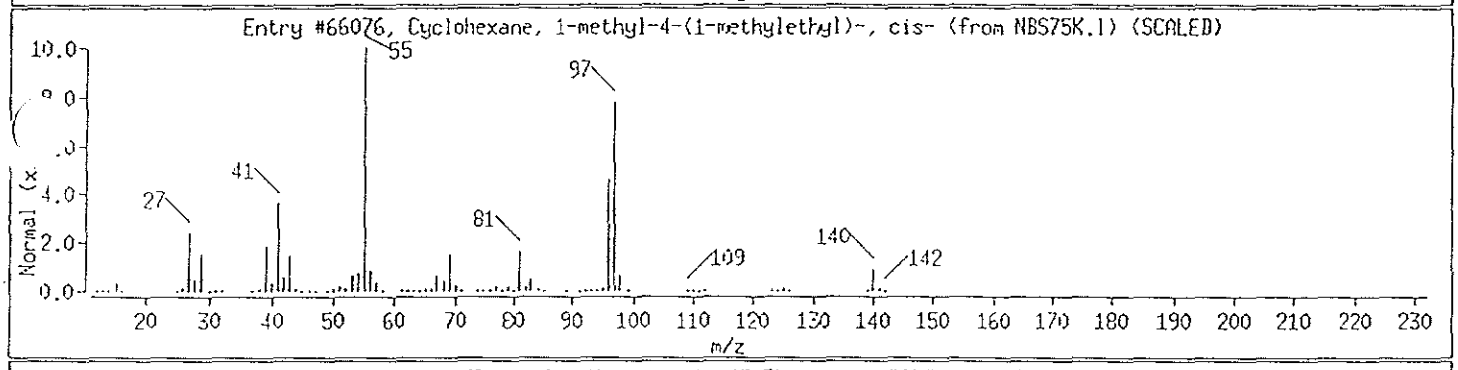
Operator: K. Bigelow

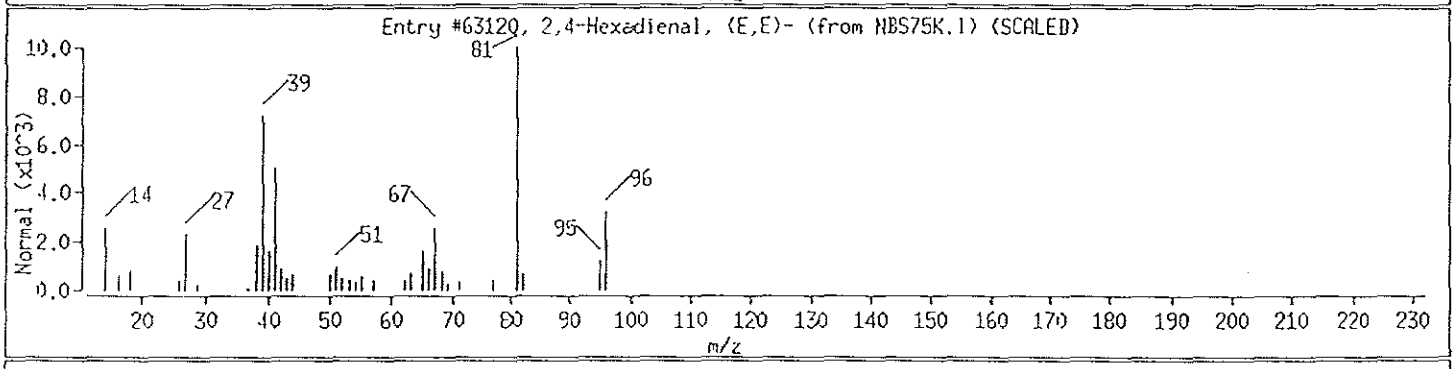
Column phase: J&W DB-5

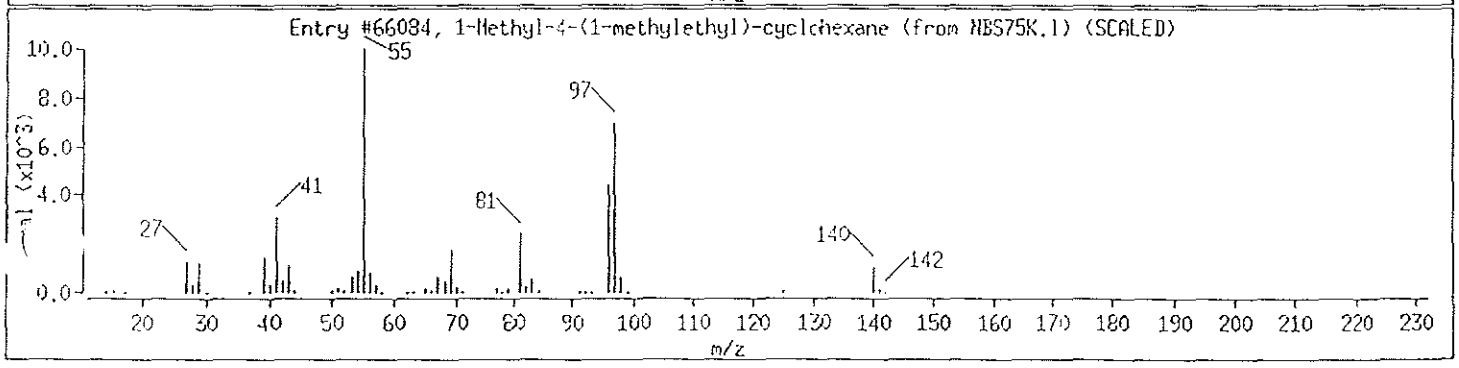
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexane, 1-methyl-4-(1-methylethyl)-	6069-98-3	NBS75K.1	66076	43	C10H20	140
2,4-Hexadienal, (E,E)-	142-83-6	NBS75K.1	63120	43	C6H8O	96
1-Methyl-4-(1-methylethyl)-cyclohexane	99-82-1	NBS75K.1	66084	43	C10H20	140









Data File: /chem/aux/msb.i/b011996.b/b9525.d

Date : 19-JAN-96 14:38

Client ID:

Instrument: msb.i

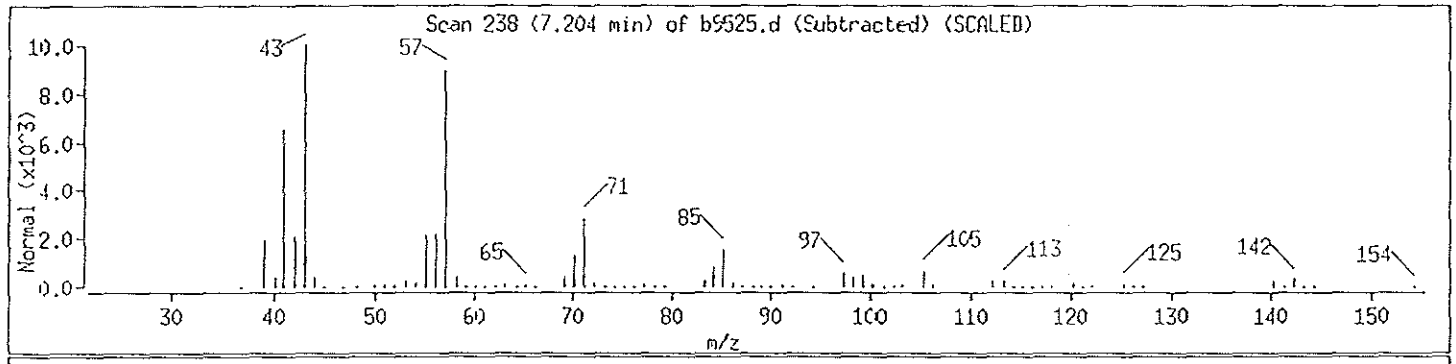
Sample Info: 17418n clj78cs001

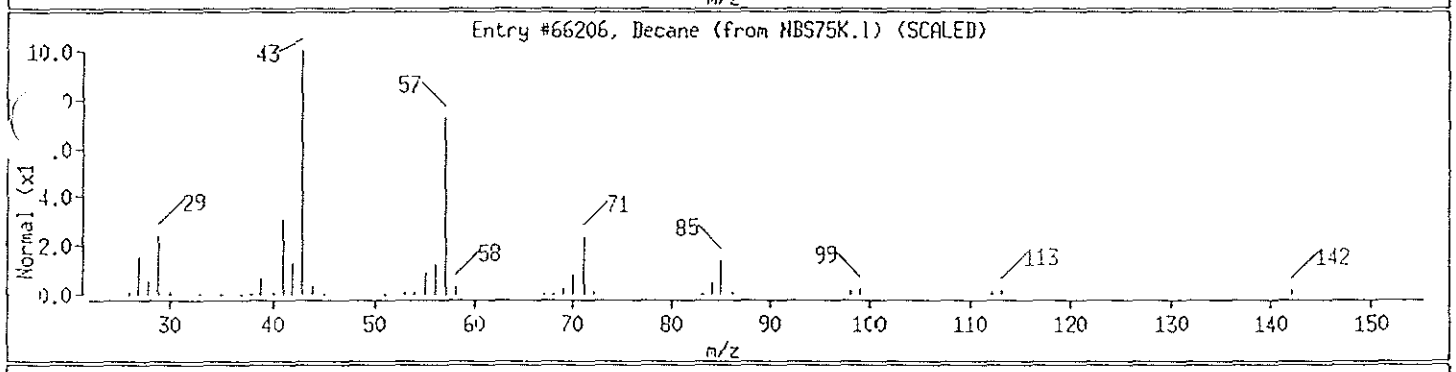
Operator: K. Bigelow

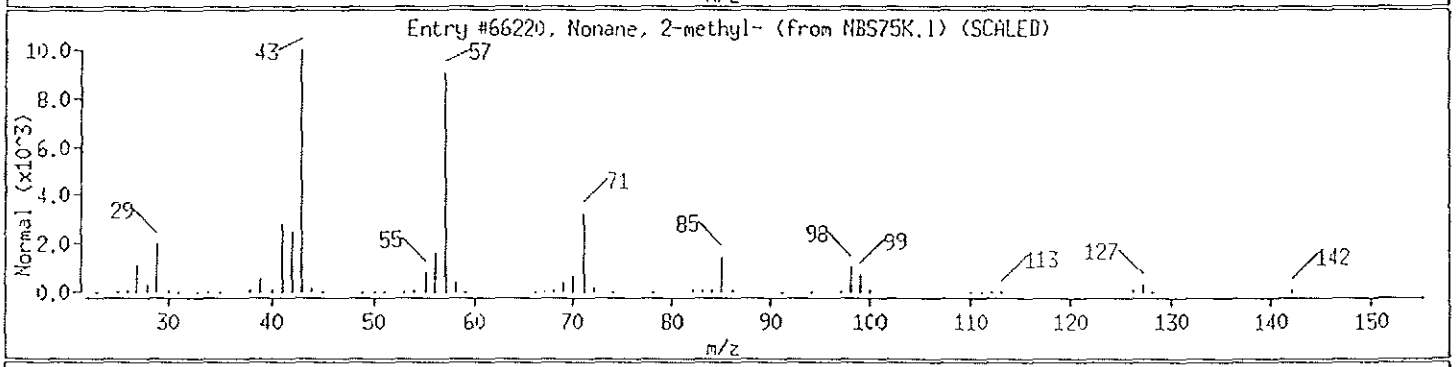
Column phase: J&W DB-5

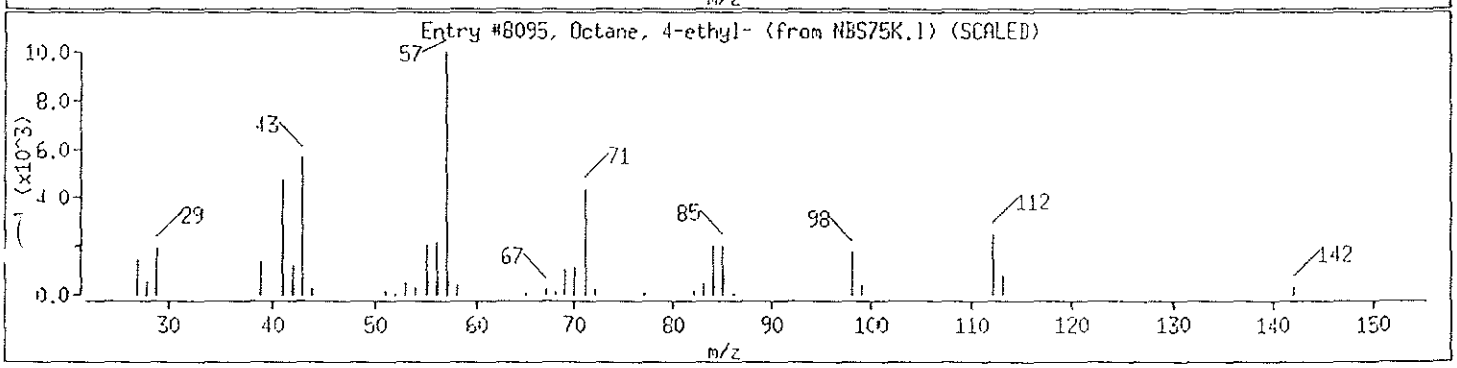
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decane	124-18-5	NBS75K.l	66206	87	C10H22	142
Nonane, 2-methyl-	871-83-0	NBS75K.l	66220	64	C10H22	142
Octane, 4-ethyl-	15869-86-0	NBS75K.l	8095	64	C10H22	142









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Client ID:

Instrument: msb.i

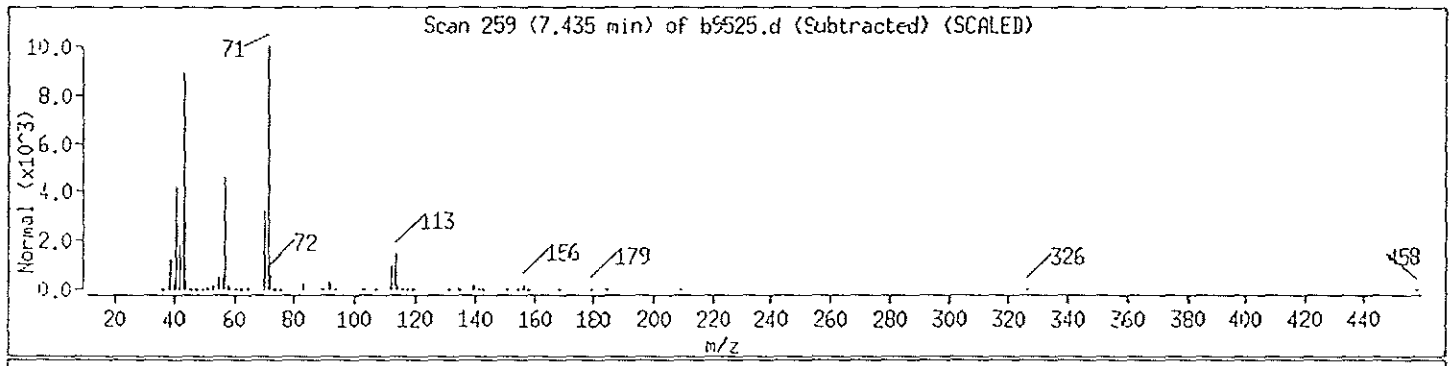
Sample Info: 17418n clj78cs001

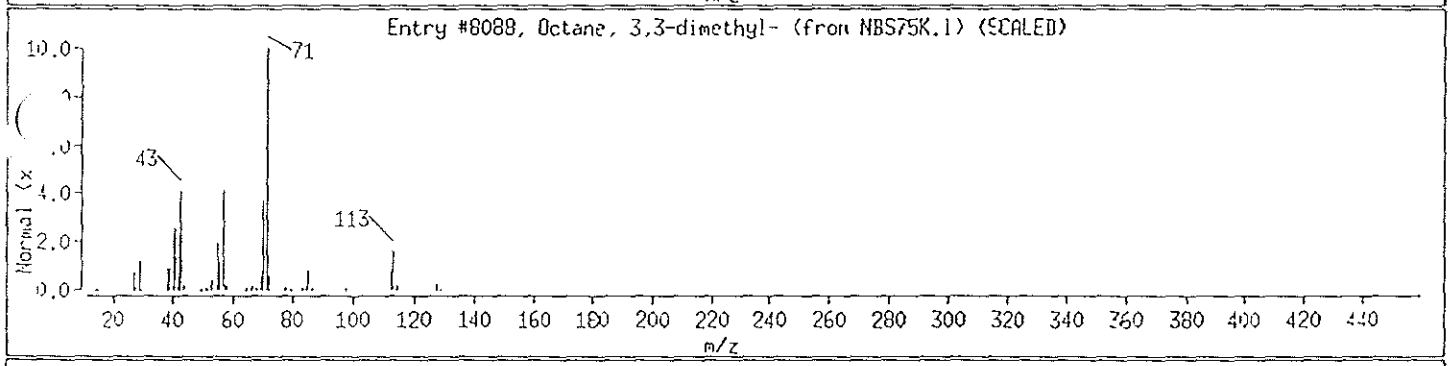
Operator: K. Bigelow

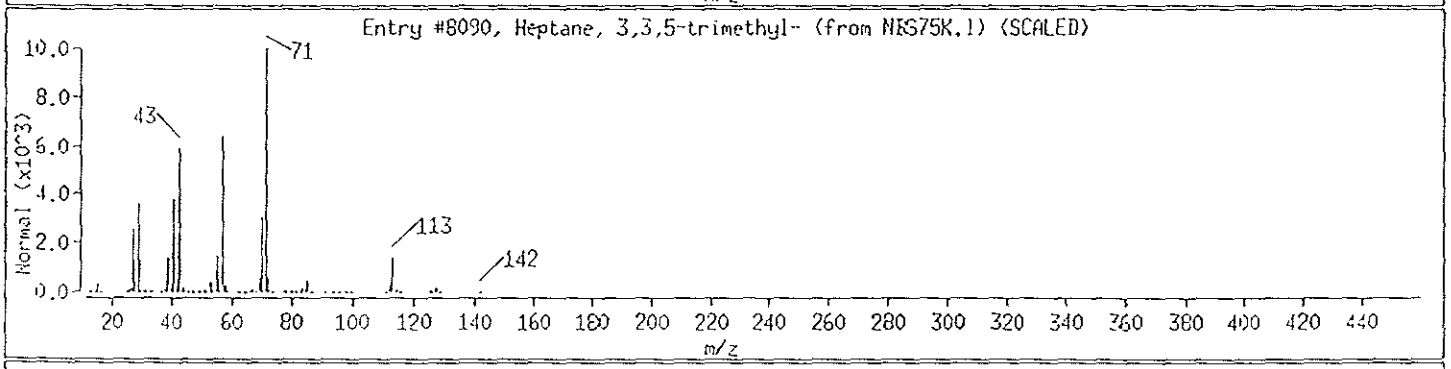
Column phase: J&W DB-5

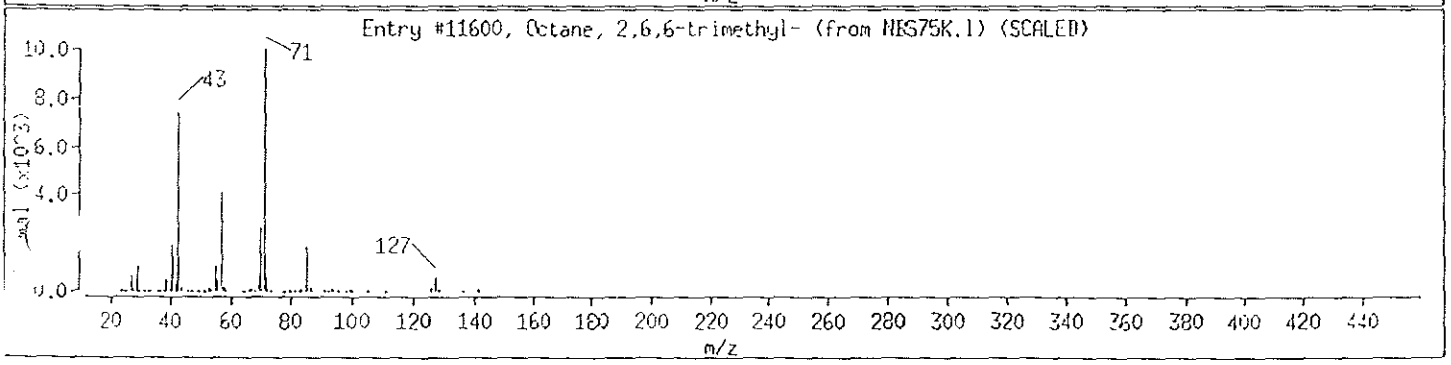
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Octane, 3,3-dimethyl-	4110-44-5	NBS75K.1	8088	64	C10H22	142
Heptane, 3,3,5-trimethyl- NB	7154-80-5	NBS75K.1	8090	64	C10H22	142
Octane, 2,6,6-trimethyl-	54166-32-4	NBS75K.1	11600	50	C11H24	156









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Date : 19-JAN-96 14:38

lient ID:

Instrument: msb.i

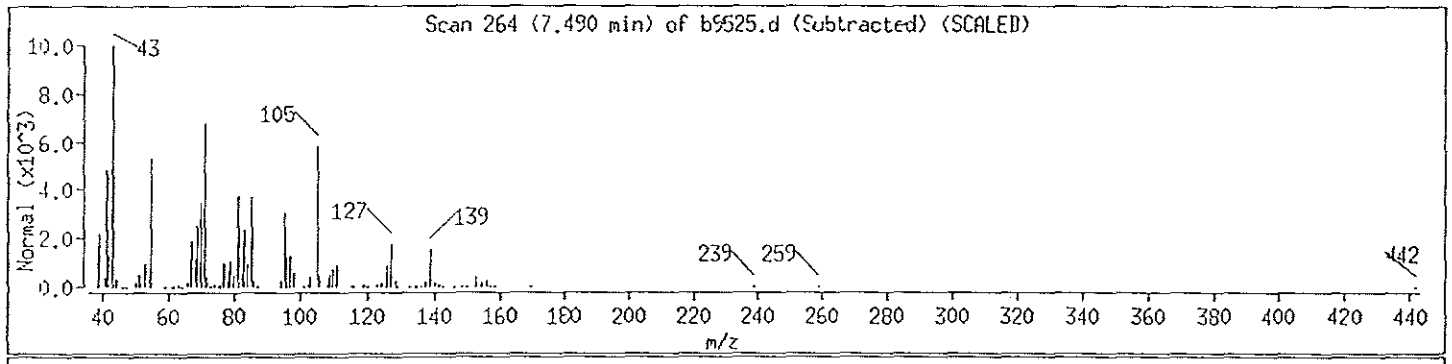
Sample Info: 17418n clj78cs001

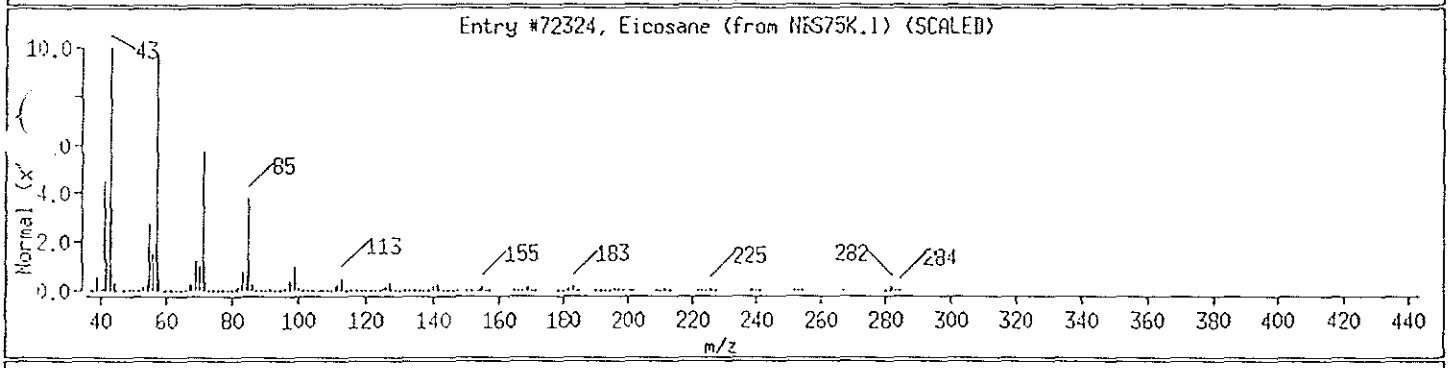
Operator: K. Bigelow

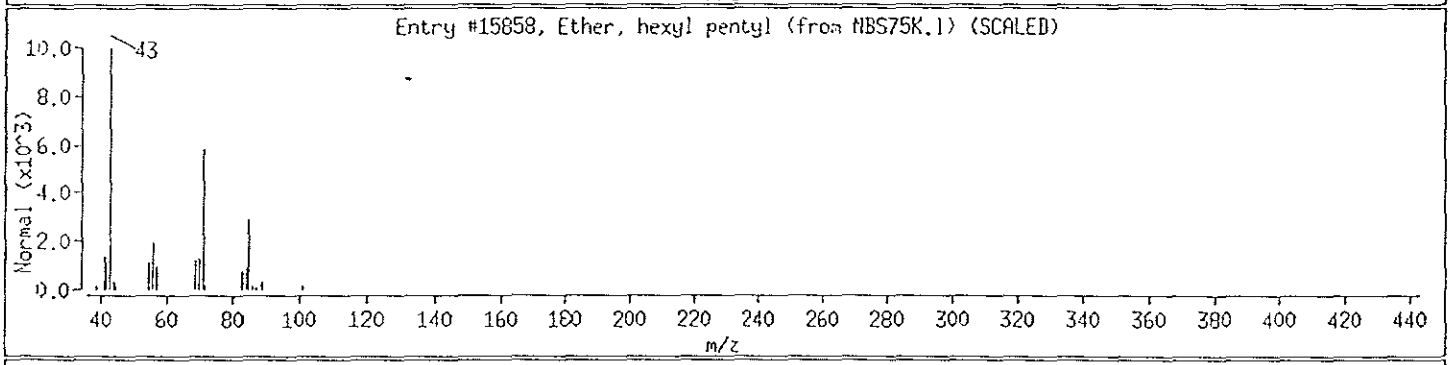
Column phase: J&W DB-5

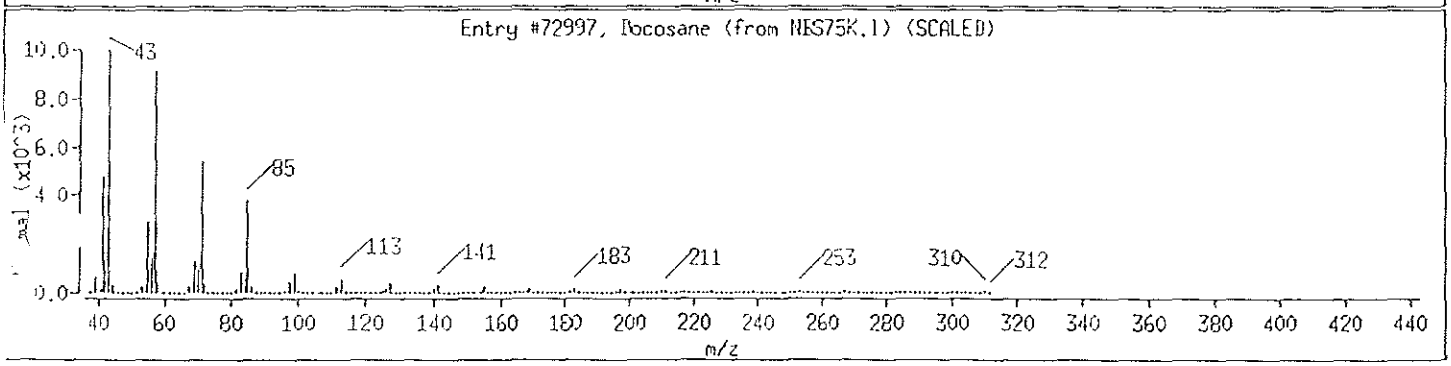
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Eicosane	112-95-8	NBS75K.1	72324	38	C20H42	282
Ether, hexyl pentyl	32357-83-8	NBS75K.1	15858	38	C11H24O	172
Docosane	629-97-0	NBS75K.1	72997	38	C22H46	310









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Client ID:

Instrument: msb.i

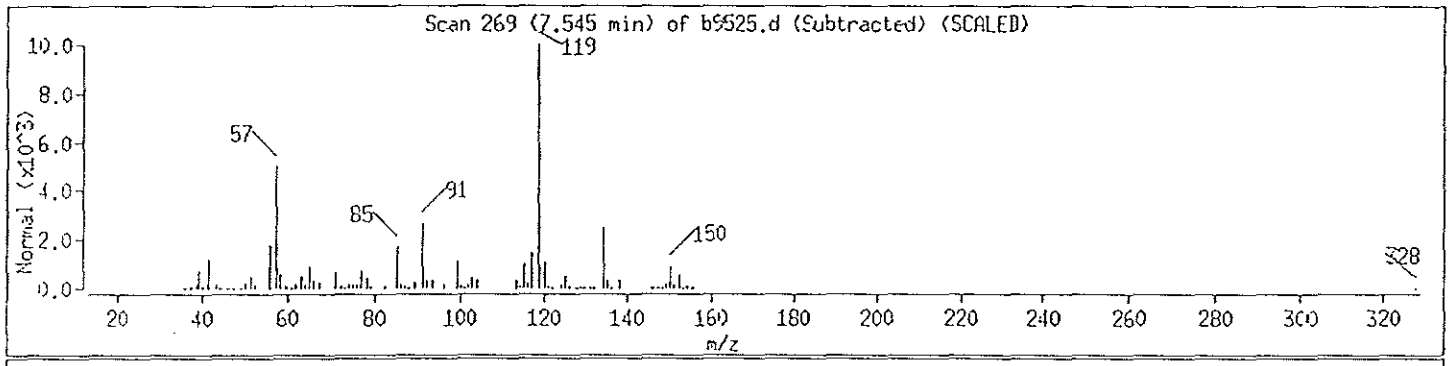
Sample Info: 17418n clj78cs001

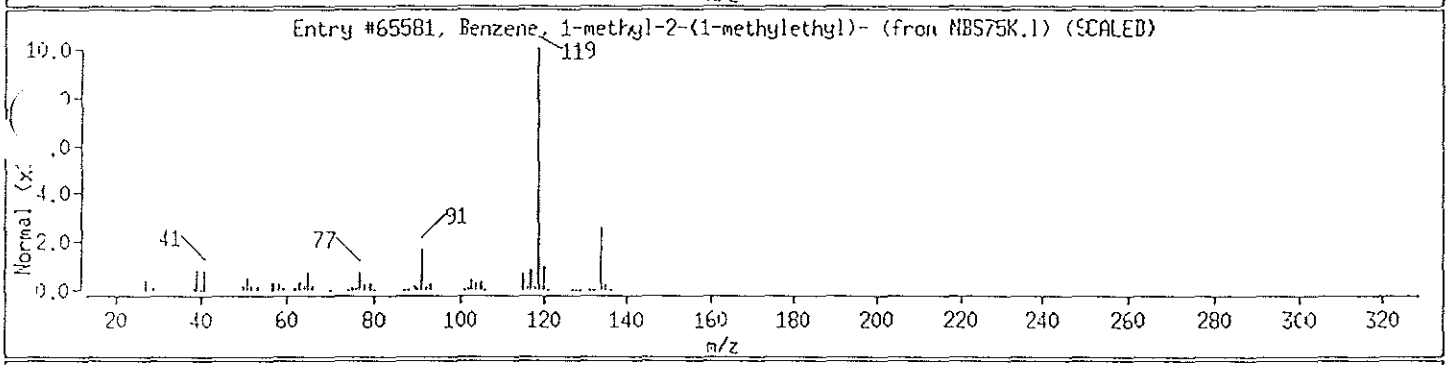
Operator: K. Bigelow

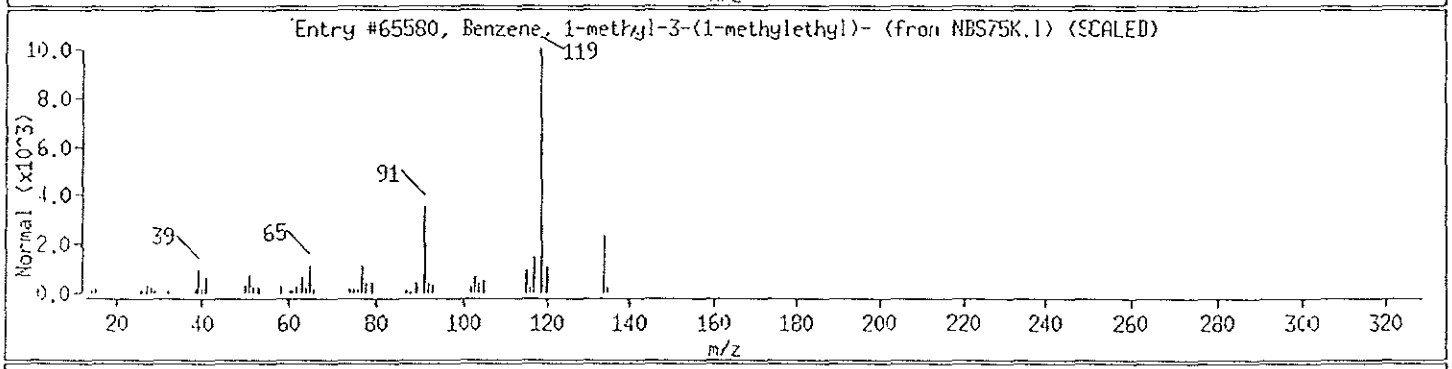
Column phase: J&W DB-5

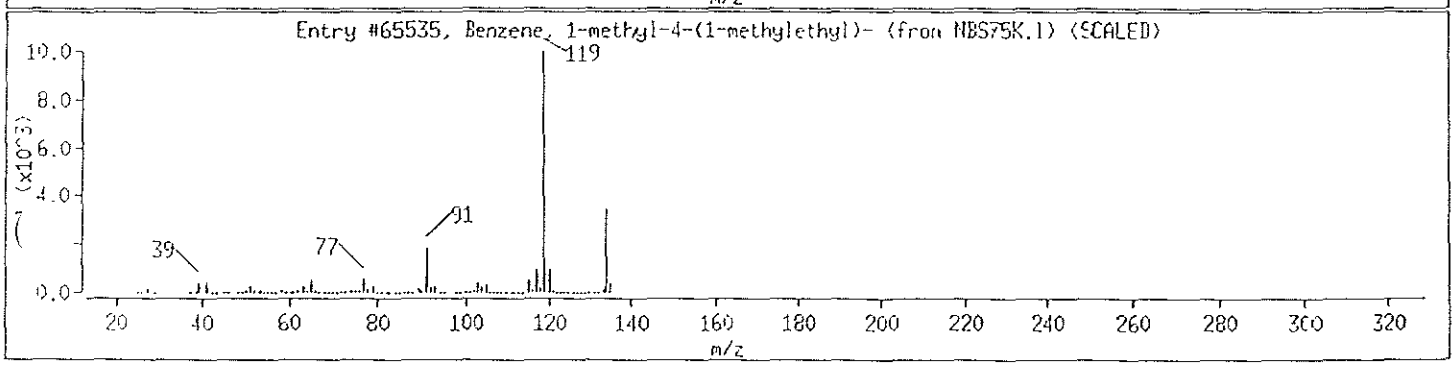
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	NBS75K.l	65581	93	C10H14	134
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	NBS75K.l	65580	93	C10H14	134
Benzene, 1-methyl-4-(1-methylethyl)-	99-87-6	NBS75K.l	65535	76	C10H14	134









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Date : 19-JAN-96 14:38

Client ID:

Instrument: msb.i

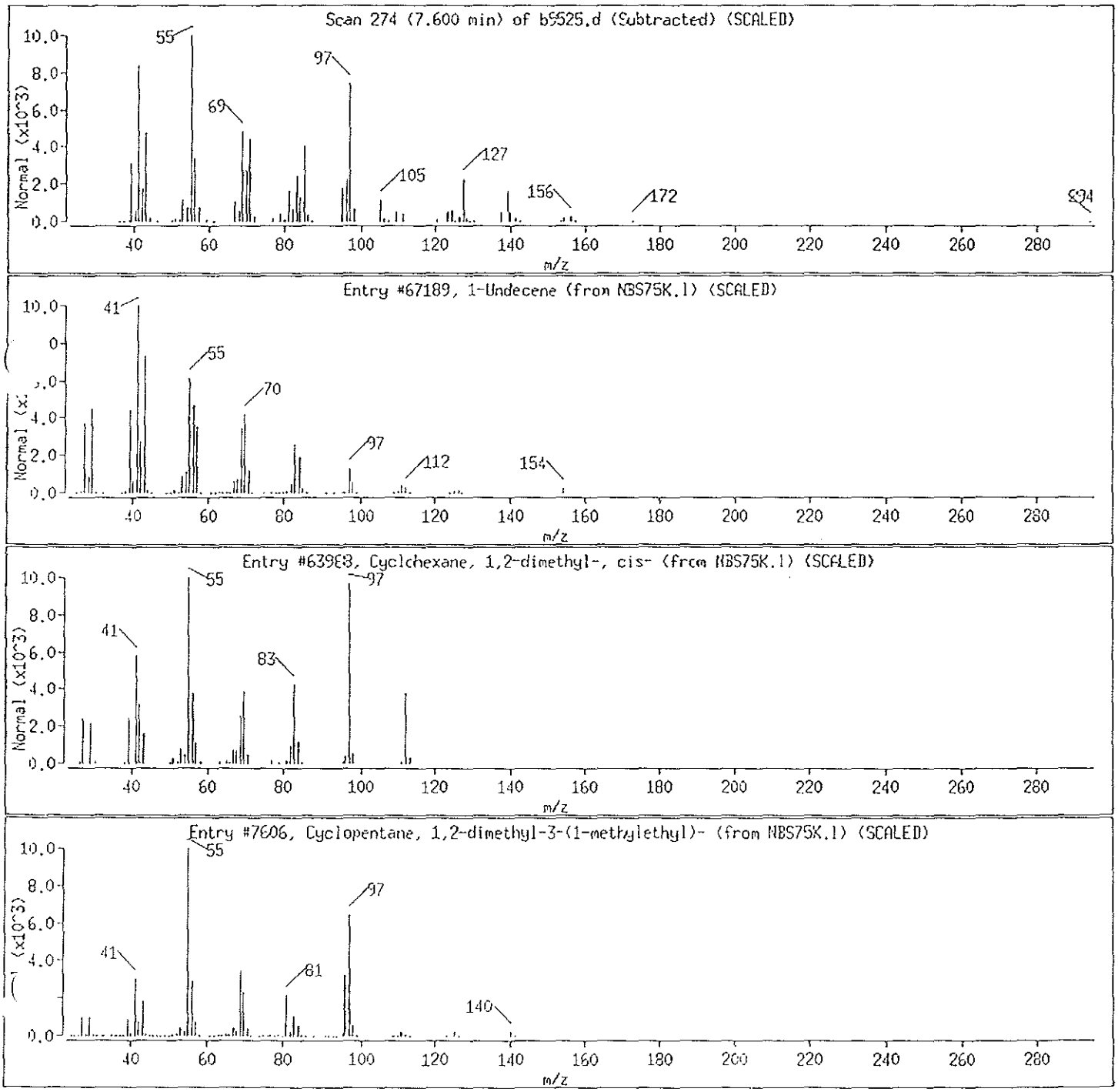
Sample Info: 17418n clj78cs001

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Undecene	821-95-4	NBS75K.l	67189	53	C11H22	154
Cyclohexane, 1,2-dimethyl-, cis-	2207-01-4	NBS75K.l	63988	38	C8H16	112
Cyclopentane, 1,2-dimethyl-3-(1-methylet	489-20-3	NBS75K.l	7606	38	C10H20	140



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Date : 19-JAN-96 14:38

Client ID:

Instrument: msb.i

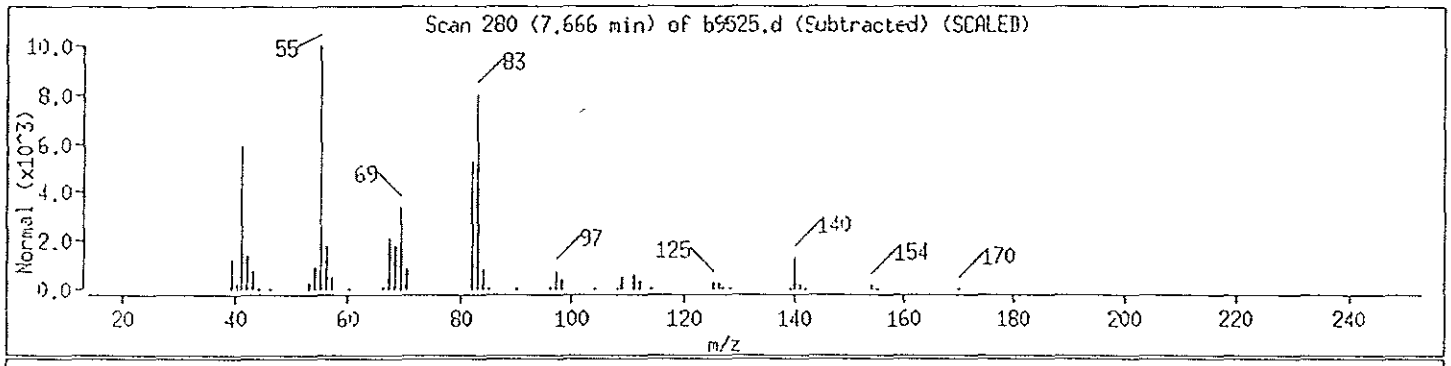
Sample Info: 17418n clj78cs001

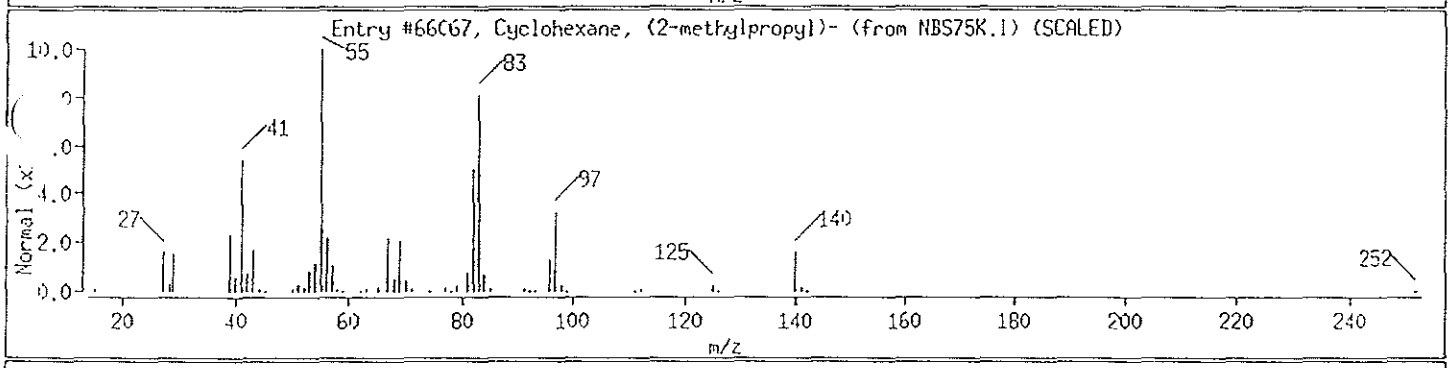
Operator: K. Bigelow

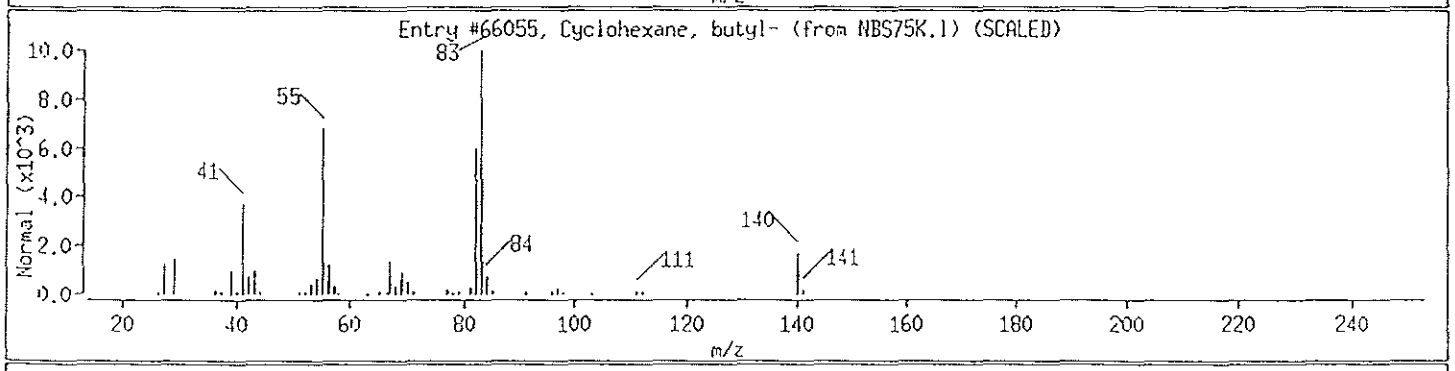
Column phase: J&W DB-5

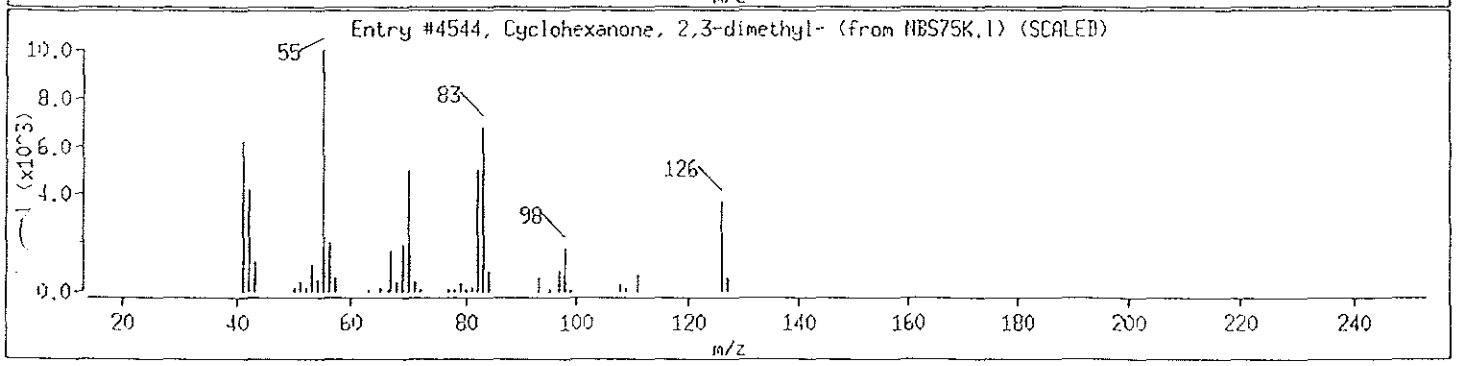
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexane, (2-methylpropyl)-	1678-98-4	NBS75K.1	66067	90	C10H20	140
Cyclohexane, butyl-	1678-93-9	NBS75K.1	66055	86	C10H20	140
Cyclohexanone, 2,3-dimethyl-	13395-76-1	NBS75K.1	4544	86	C8H14O	126









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Date : 19-JAN-96 14:38

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Instrument: msb.i

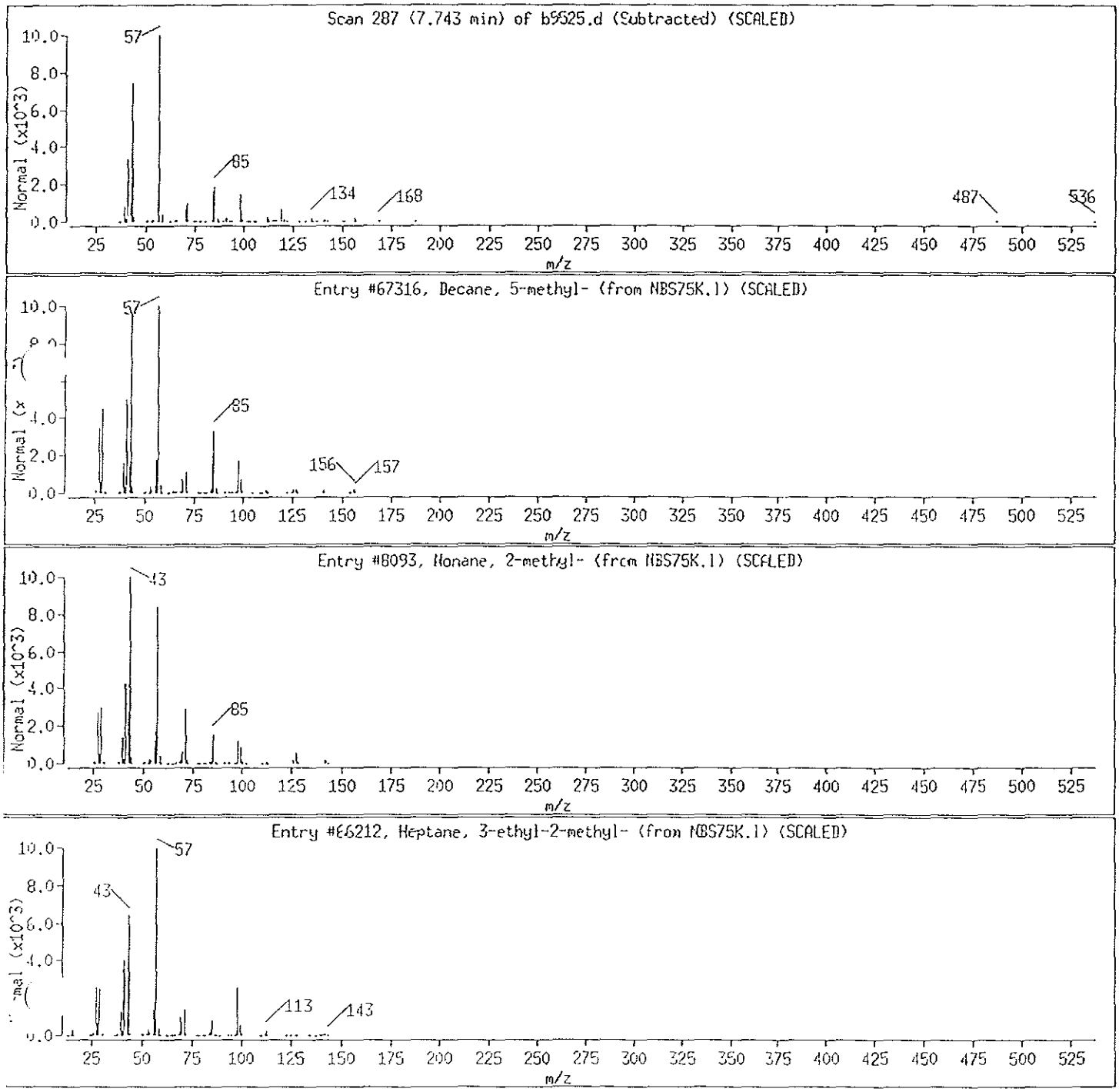
Sample Info: 17418n clj78cs001

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decane, 5-methyl-	13151-35-4	NBS75K.l	67316	64	C11H24	156
Nonane, 2-methyl-	871-83-0	NBS75K.l	8093	59	C10H22	142
Heptane, 3-ethyl-2-methyl-	14676-29-0	NBS75K.l	66212	53	C10H22	142



Data File: /chem/aux/msb.i/b011996.b/b9525.d

Date : 19-JAN-96 14:38

Client ID:

Instrument: msb.i

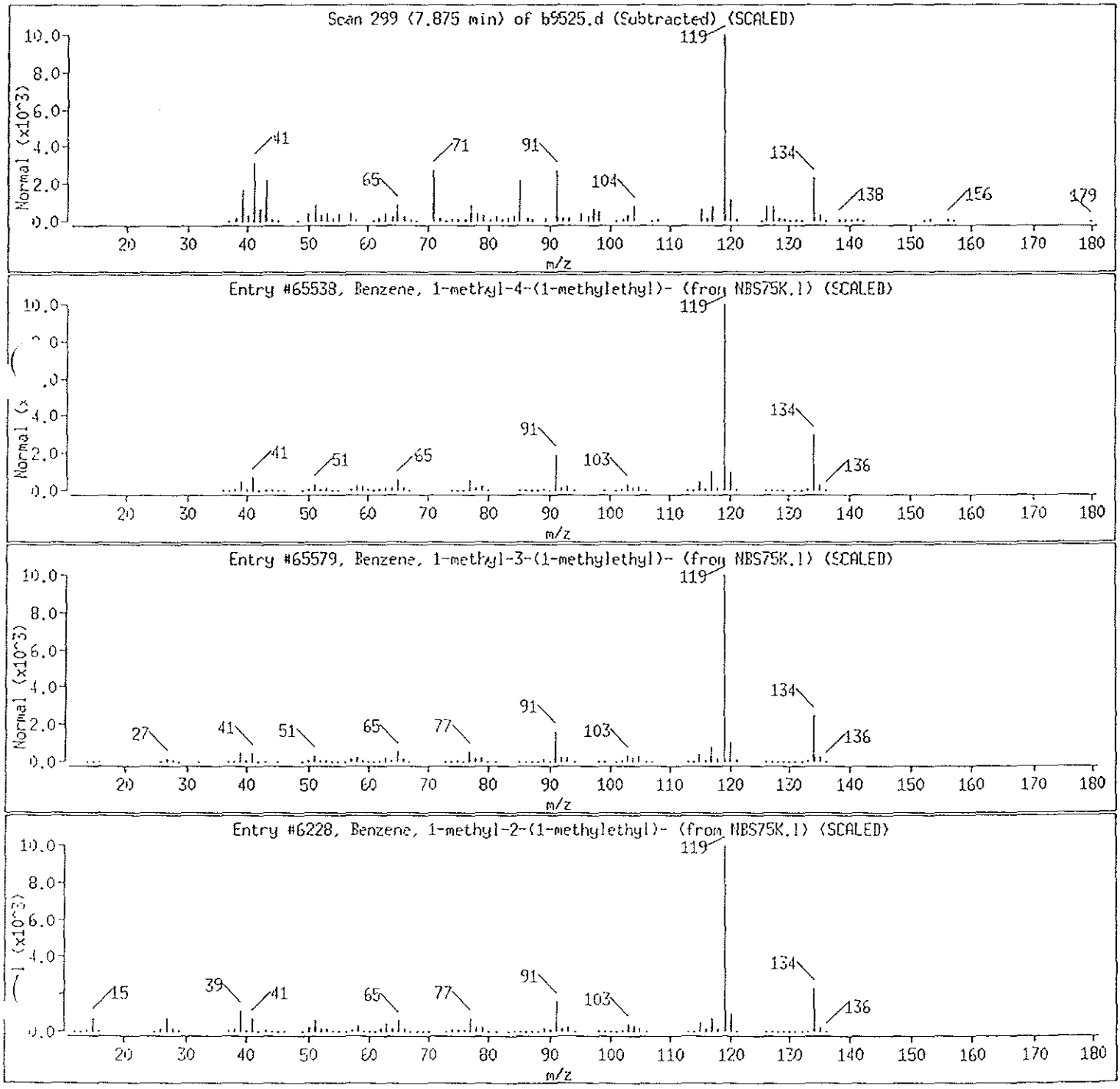
Sample Info: 17418n clj78cs001

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-methyl-4-(1-methylethyl)-	99-87-6	NBS75K.l	65538	64	C10H14	134
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	NBS75K.l	65579	64	C10H14	134
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	NBS75K.l	6228	64	C10H14	134



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Date : 19-JAN-96 14:38

Client ID:

Instrument: msb.i

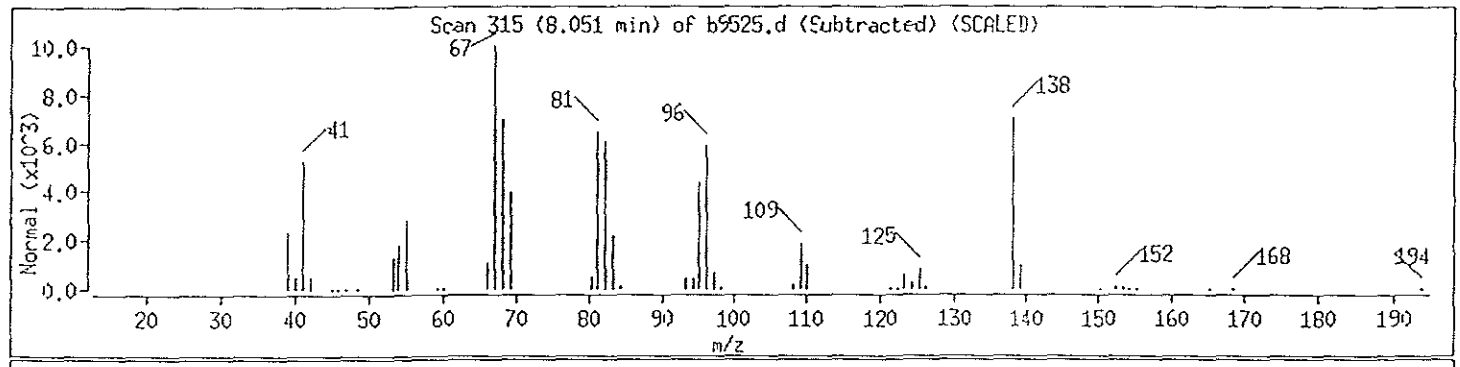
Sample Info: 17418n clj78cs001

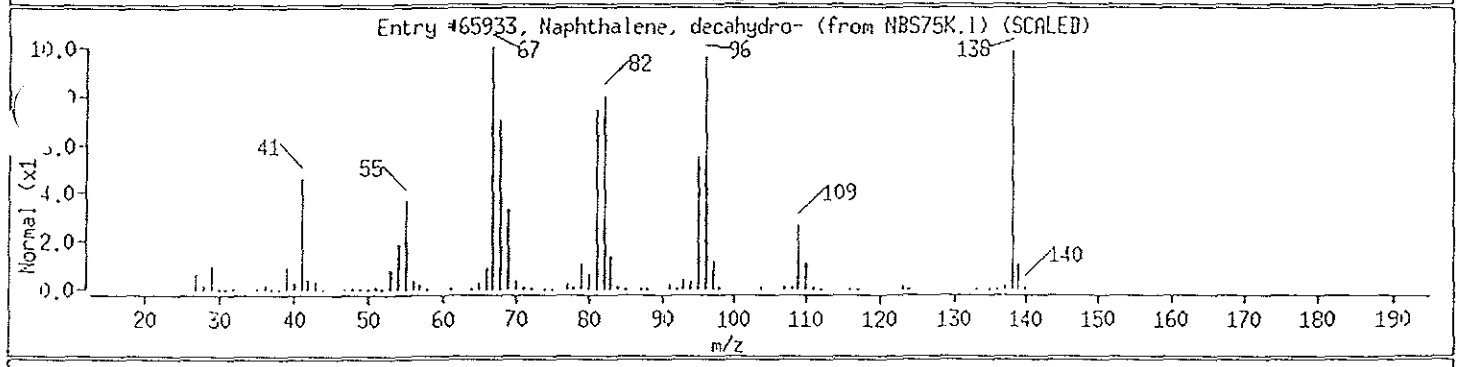
Operator: K. Bigelow

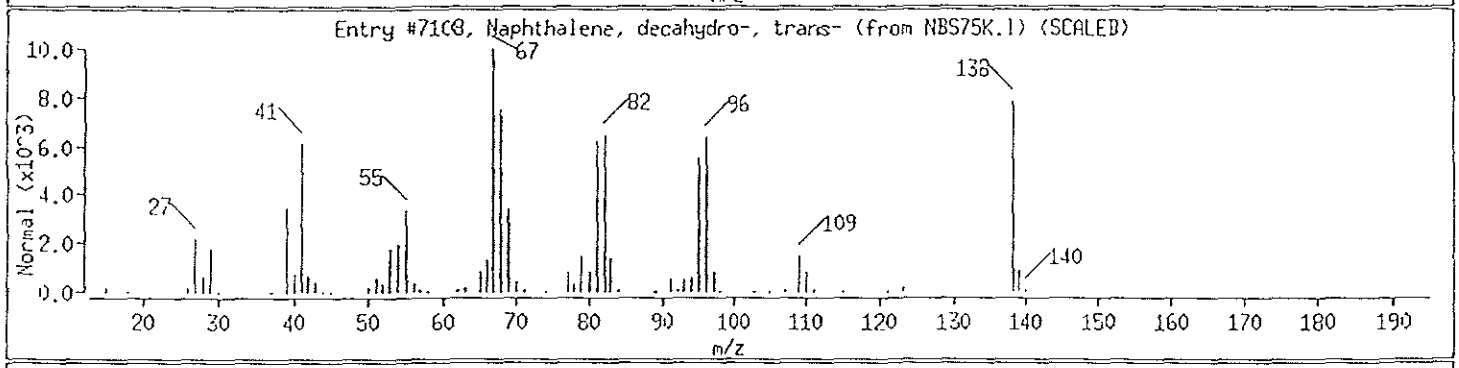
Column phase: J&W DB-5

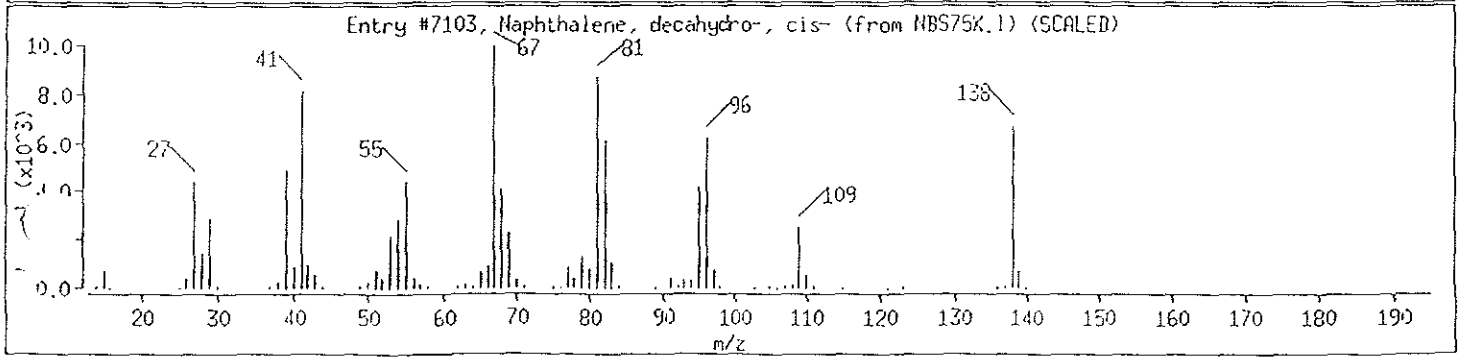
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, decahydro-	91-17-8	NBS75K.l	65933	95	C10H18	138
Naphthalene, decahydro-, trans-	493-02-7	NBS75K.l	7108	95	C10H18	138
Naphthalene, decahydro-, cis-	493-01-6	NBS75K.l	7103	87	C10H18	138









Data File: /chem/aux/msb.i/b011996.b/b9525.d

Date : 19-JAN-96 14:38

Client ID:

Instrument: msb.i

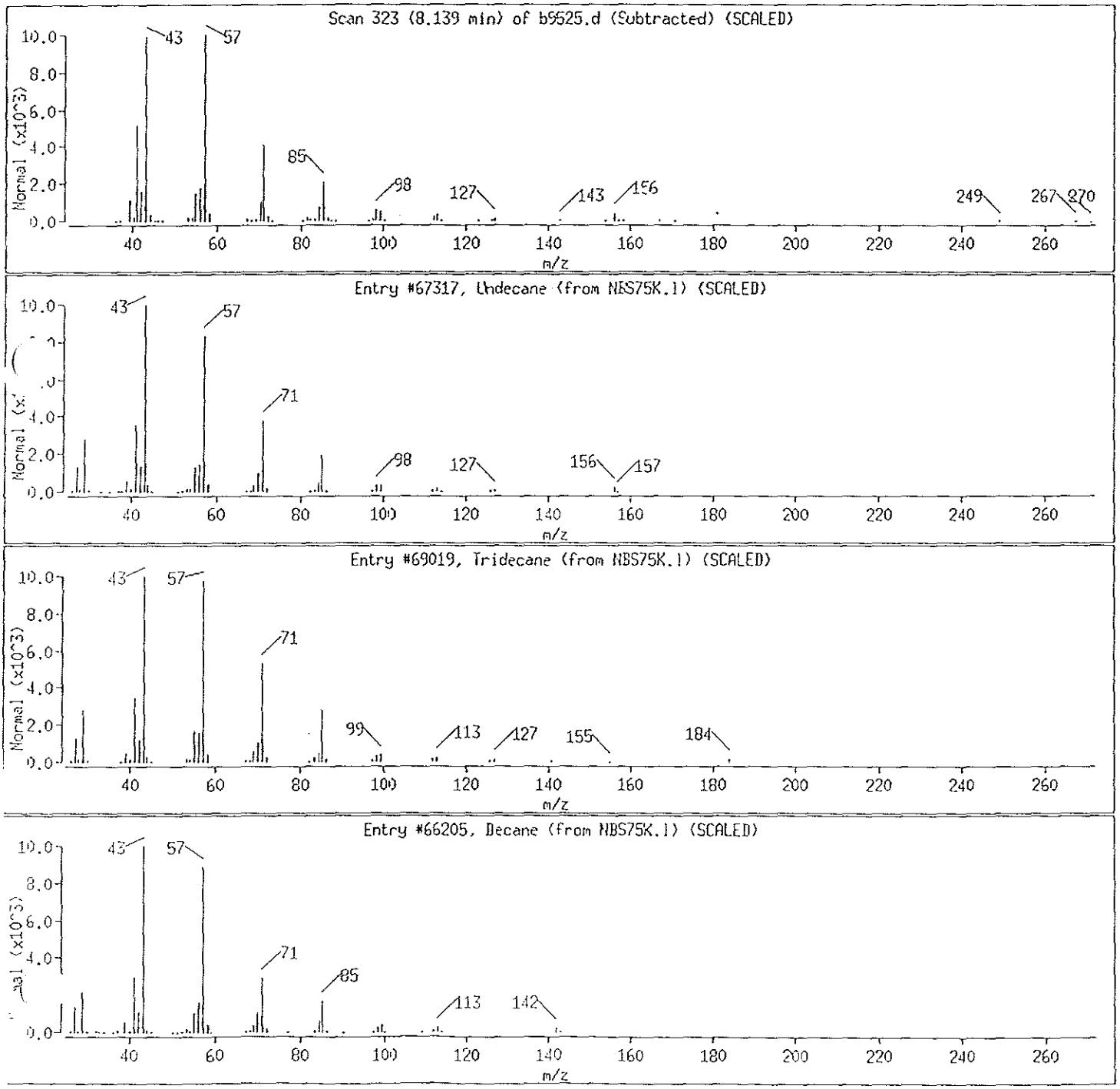
Sample Info: 17418n clj78cs001

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Undecane	1120-21-4	NBS75K.l	67317	97	C11H24	156
Tridecane	629-50-5	NBS75K.l	69019	90	C13H28	184
Decane	124-18-5	NBS75K.l	66205	90	C10H22	142



Data File: /chem/aux/msb.i/b011996.b/b9525.d

Date : 19-JAN-96 14:38

Client ID:

Instrument: msb.i

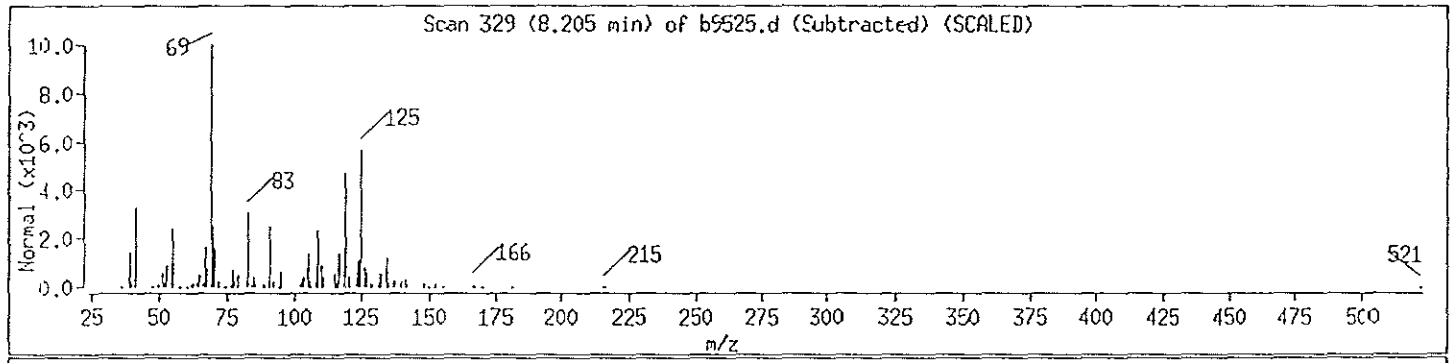
Sample Info: 17418n clj78cs001

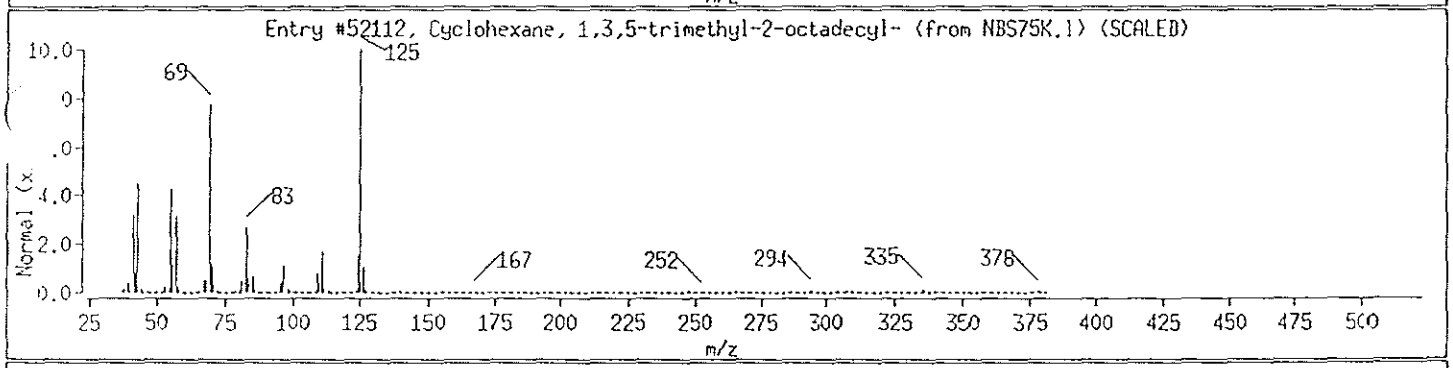
Operator: K. Bigelow

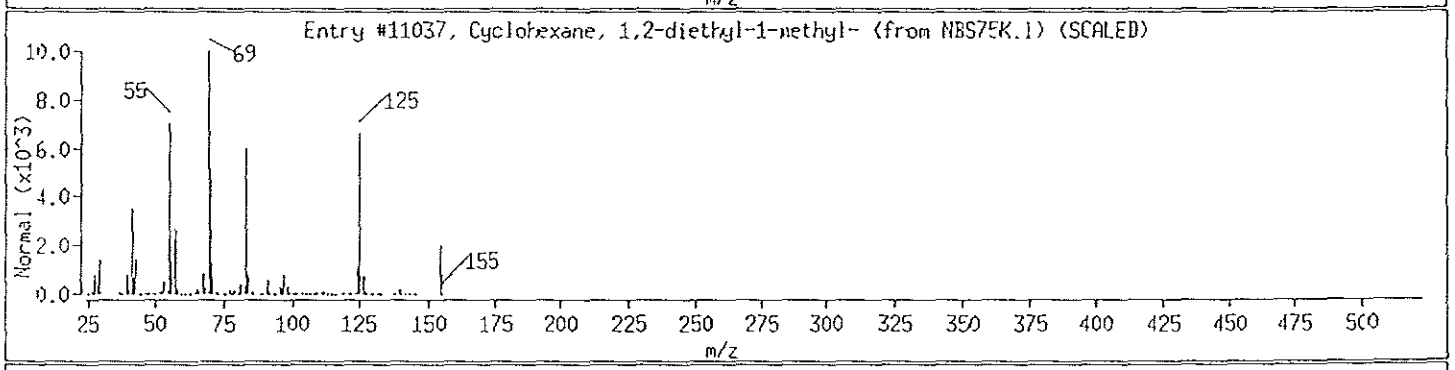
Column phase: J&W DB-5

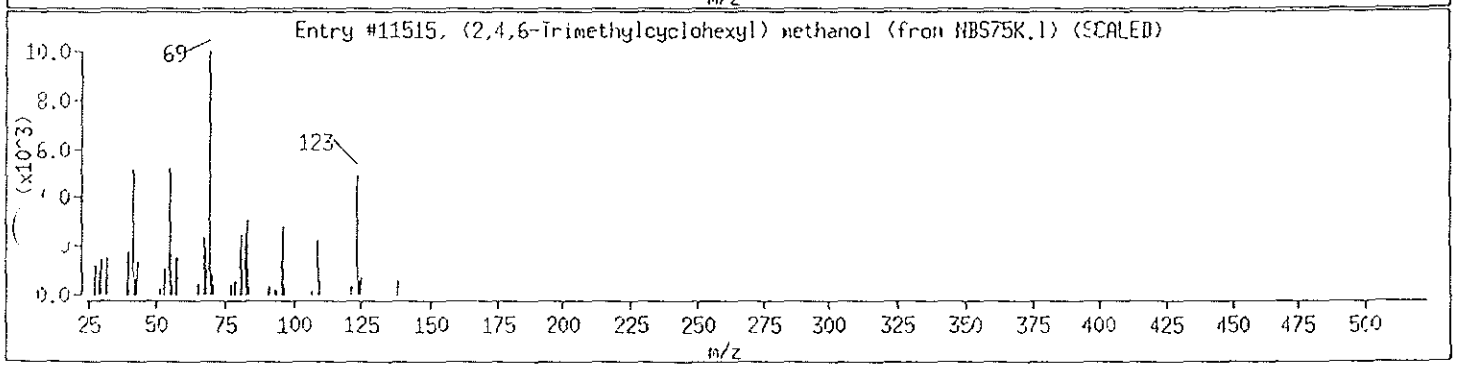
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexane, 1,3,5-trimethyl-2-octadecyl	55282-34-3	NBS75K.l	52112	25	C27H54	378
Cyclohexane, 1,2-diethyl-1-methyl-	61141-79-5	NBS75K.l	11037	23	C11H22	154
(2,4,6-Trimethylcyclohexyl) methanol	0-00-0	NBS75K.l	11515	23	C10H20O	156









1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0253 EPA SAMPLE NO.

CLJ78CS002

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2492C

Sample wt/vol: 30.1 (g/mL) G Lab File ID: B9526

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: 15 decanted: (Y/N) N Date Extracted: 01/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	390	U
111-44-4	bis(2-Chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	390	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 0254

EPA SAMPLE NO.

CLJ78CS002

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2492C

Sample wt/vol: 30.1 (g/mL) G Lab File ID: B9526

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: 15 decanted: (Y/N) N Date Extracted: 01/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2000	U
100-02-7	4-Nitrophenol	2000	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	980	U
101-55-3	4-Bromophenyl-phenylether	390	U
86-30-6	N-Nitrosodiphenylamine (1)	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	390	U
129-00-0	Pyrene	390	U
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	390	U
218-01-9	Chrysene	390	U
117-81-7	bis(2-Ethylhexyl)phthalate	280	J
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
53-70-3	Dibenz(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0255 EPA SAMPLE NO.

CLJ78CS002

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2492C

Sample wt/vol: 30.1 (g/mL) G Lab File ID: B9526

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: 15 decanted: (Y/N) N Date Extracted: 01/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-Pentanone, 4-hydroxy-4-met	5.88	4400	JNA

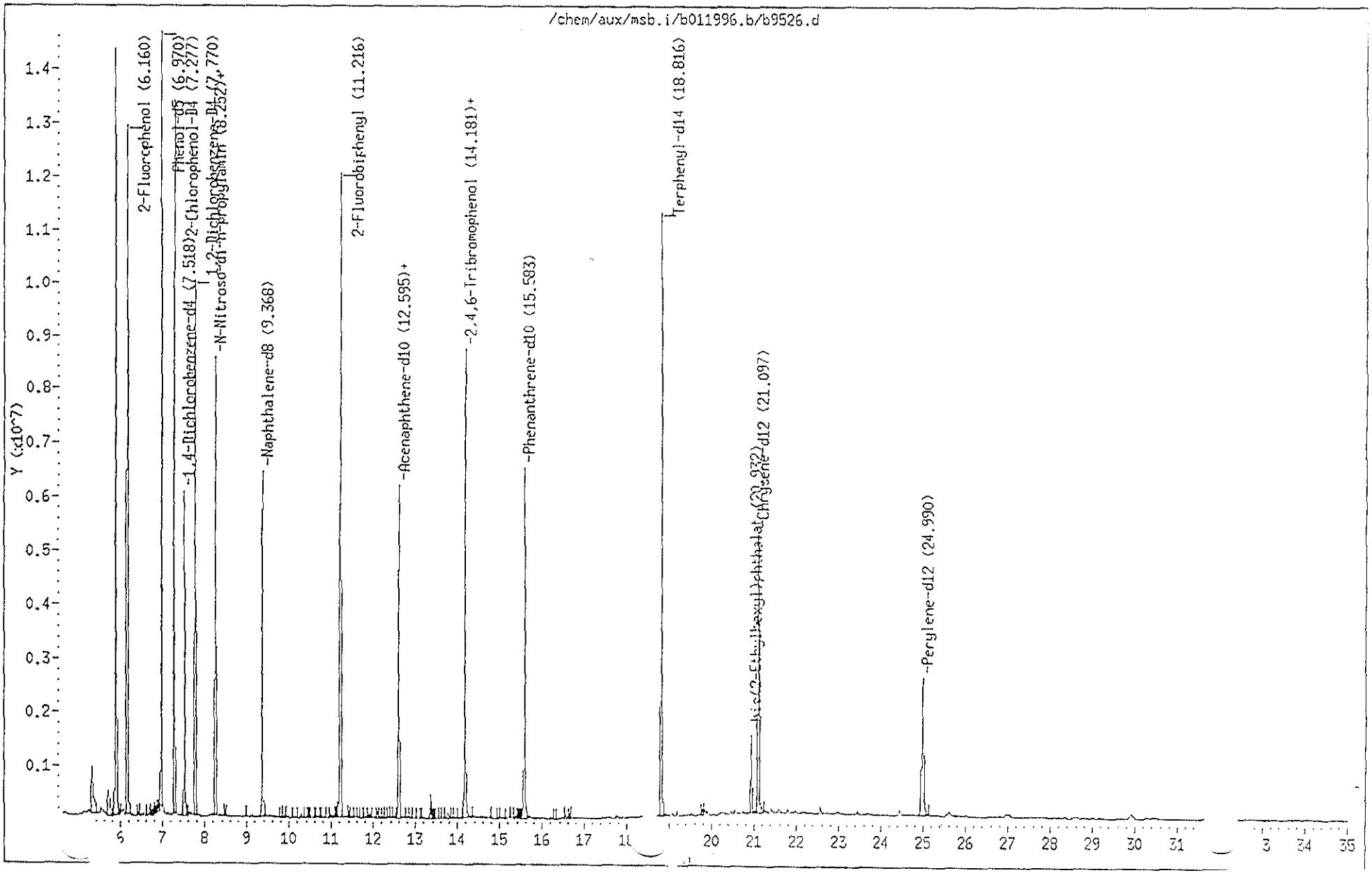
0256

Data File: /chem/aux/msb.i/b011996.b/b9526.d
Date : 19-JAN-96 15:25
Client ID:
Sample Info: 17418n clj78cs002

Column phase: J&W DB-5

Instrument: msb.i

Operator: K. Bigelow
Column diameter: 0.25



Data File: /chem/aux/msb.i/b011996.b/b9526.d
Report Date: 20-Jan-1996 09:16

OHM Analytical Division

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/aux/msb.i/b011996.b/b9526.d
Lab Smp Id:
Inj Date : 19-JAN-96 15:25
Operator : K. Bigelow Inst ID: msb.i
Smp Info : 17418n clj78cs002
Misc Info : jp2492c,n2c60119,m1,1,1
Comment :
Method : /chem/aux/msb.i/b011996.b/0112996bclp.m
Meth Date : 20-Jan-1996 09:14 kathryn Quant Type: ISTD
Cal Date : 19-JAN-96 10:44 Cal File: b9520.d
Als bottle: 8
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

K Bigelow

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)	
	2-Fluorophenol	112.00	6.160	6.157	(0.819)	5730228	107	107(R)	
S	4 Phenol-d5	99.00	6.970	6.975	(0.927)	6311260	104	104(R)	
S	7 2-Chlorophenol-D4	132.00	7.277	7.283	(0.969)	5601170	109	109(R)	
*	10 1,4-Dichlorobenzene-d4	152.00	7.518	7.524	(1.000)	1610816	40.0		
S	13 1,2-Dichlorobenzene-D4	152.00	7.770	7.787	(1.034)	2708100	79.5	79.5(R)	
	17 N-Nitroso-di-n-propylamine	70.00	8.252	7.995	(1.063)	656791	14.3	~~14.3~~(Q)	ND, Rt, MS
S	19 Nitrobenzene-d5	82.00	8.252	8.269	(0.881)	3867937	73.4	73.4(R)	
*	27 Naphthalene-d8	136.00	9.368	9.386	(1.000)	5067425	40.0		
S	37 2-Fluorobiphenyl	172.00	11.216	11.228	(0.891)	7012020	80.1	80.1(R)	
*	44 Acenaphthene-d10	164.00	12.595	12.620	(1.000)	2722009	40.0		
	48 2,4-Dinitrotoluene	165.00	12.595	12.949	(1.000)	375682	10.5	~~10.5~~(Q)	ND, Rt, MS
S	56 2,4,6-Tribromophenol	330.00	14.181	14.200	(1.126)	2217813	146	146(R)	
	57 4-Bromophenyl-phenylether	248.00	14.181	14.595	(0.910)	159263	5.59	~~5.59~~(Q)	ND, Rt, MS
*	60 Phenanthrene-d10	188.00	15.583	15.604	(1.000)	4219188	40.0		
S	68 Terphenyl-d14	244.00	18.816	18.826	(0.892)	7368770	82.1	82.1(R)	
	70 bis(2-Ethylhexyl)phthalate	149.00	20.932	20.954	(0.992)	676207	7.21	7.21	
*	73 Chrysene-d12	240.00	21.097	21.131	(1.000)	3370342	40.0		
*	79 Perylene-d12	264.00	24.990	25.033	(1.000)	2973463	40.0		

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: /chem/aux/msb.i/b011996.b/b9526.d

Date : 19-JAN-96 15:25

Client ID:

Instrument: msb.i

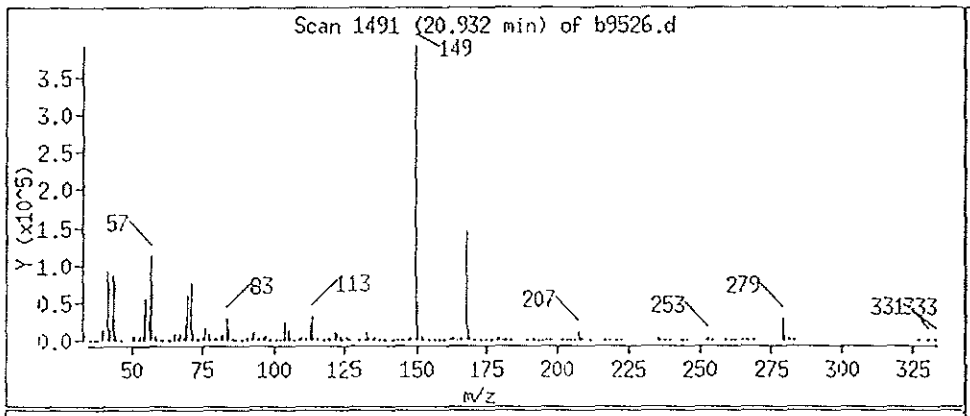
Sample Info: 17418n clj78cs002

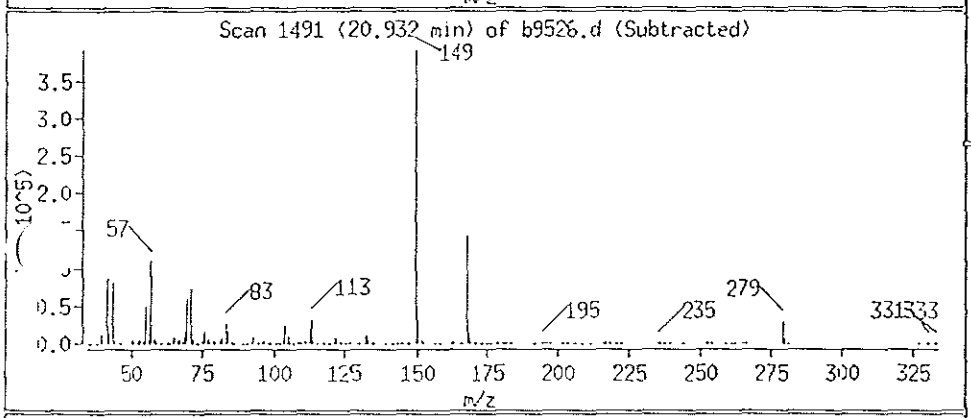
Operator: K. Bigelow

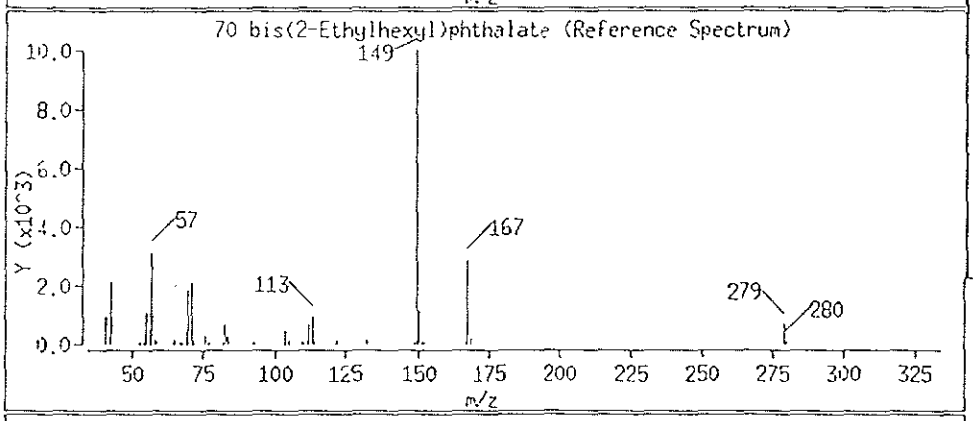
Column phase: J&W DB-5

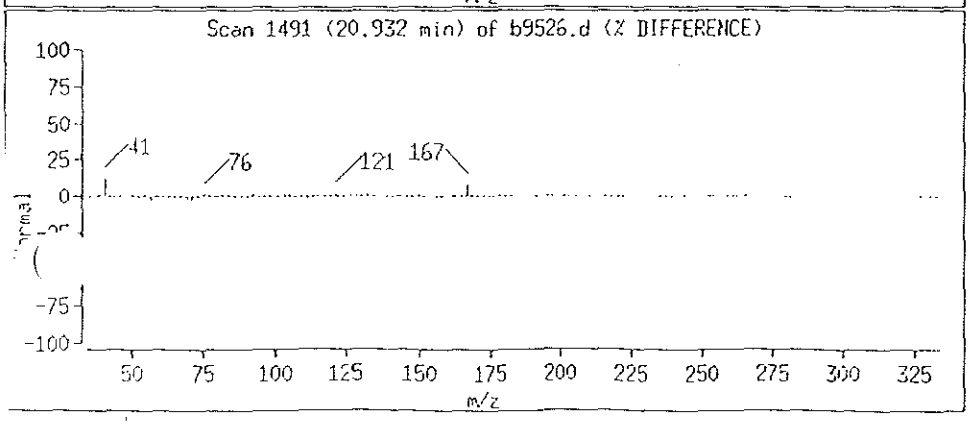
Column diameter: 0.25

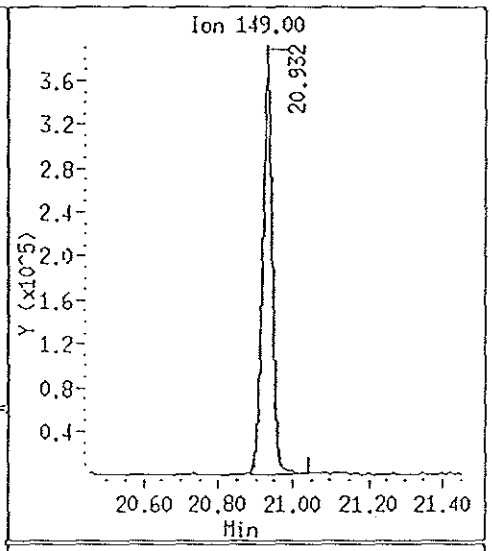
70 bis(2-Ethylhexyl)phthalate

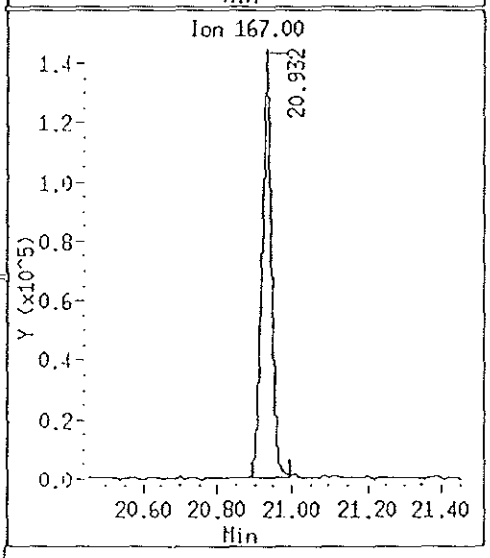












Data File: /chem/aux/msb.i/b011996.b/b9526.d

Date : 19-JAN-96 15:25

Client ID:

Instrument: msb.i

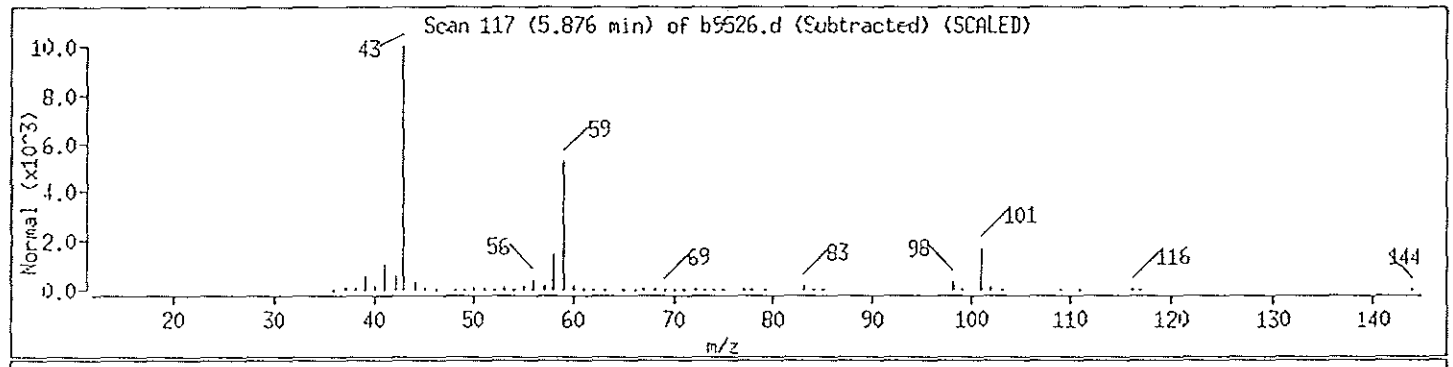
Sample Info: 17418n clj78cs002

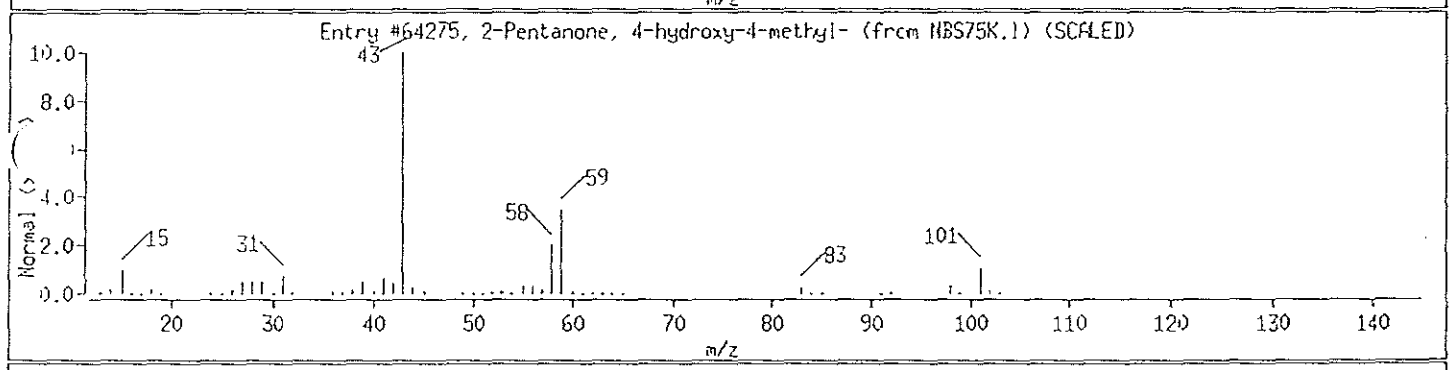
Operator: K. Bigelow

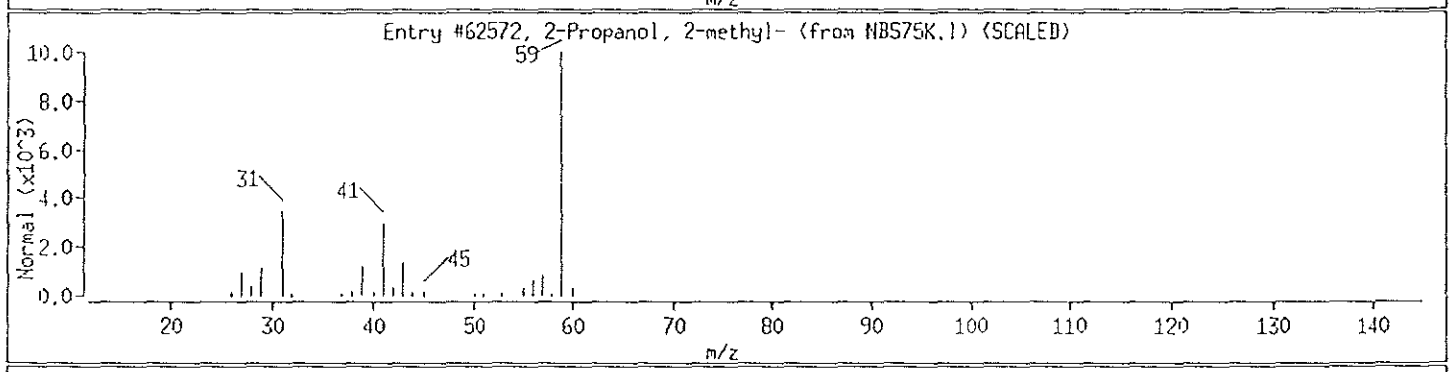
Column phase: J&W DB-5

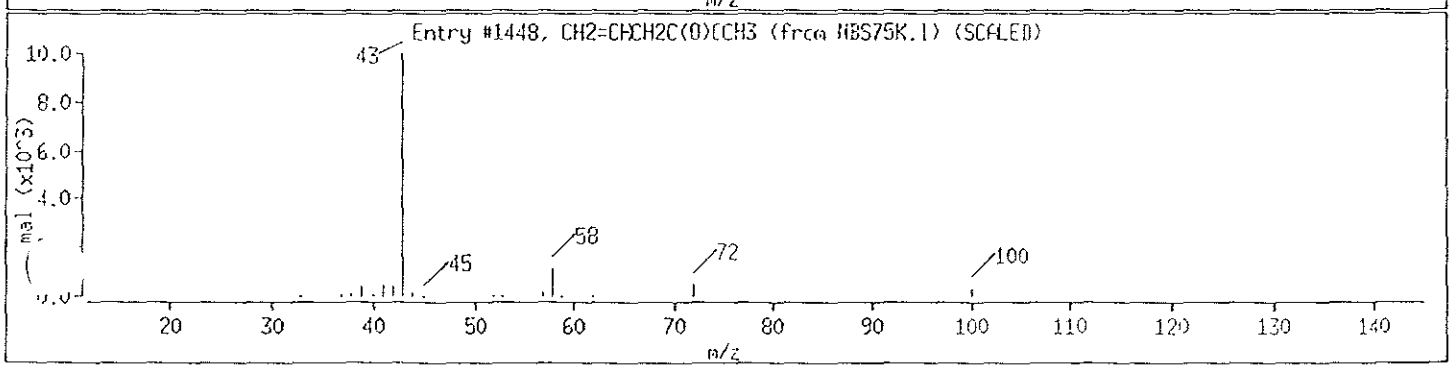
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NBS75K.l	64275	64	C6H12O2	116
2-Propanol, 2-methyl-	75-65-0	NBS75K.l	62572	25	C4H10O	74
CH2=CHCH2C(O)OCH3	3724-55-8	NBS75K.l	1448	12	C5H8O2	100









1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 0260

EPA SAMPLE NO.

CLJ78CS003

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2493C

Sample wt/vol: 30.1 (g/mL) G Lab File ID: B9527

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: 14 decanted: (Y/N) N Date Extracted: 01/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	390	U
111-44-4	bis(2-Chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	130	J
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	390	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0261 EPA SAMPLE NO.

CLJ78CS003

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2493C

Sample wt/vol: 30.1 (g/mL) G Lab File ID: B9527

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: 14 decanted: (Y/N) N Date Extracted: 01/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	970	U
101-55-3	4-Bromophenyl-phenylether	390	U
86-30-6	N-Nitrosodiphenylamine (1)	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	36	J
120-12-7	Anthracene	170	J
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	2000	
129-00-0	Pyrene	3400	
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	1300	
218-01-9	Chrysene	1800	
117-81-7	bis(2-Ethylhexyl)phthalate	5100	
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	1200	
207-08-9	Benzo(k)fluoranthene	1100	
50-32-8	Benzo(a)pyrene	680	
193-39-5	Indeno(1,2,3-cd)pyrene	180	J
53-70-3	Dibenz(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	130	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 0262
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
CLJ78CS003

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2493C

Sample wt/vol: 30.1 (g/mL) G Lab File ID: B9527

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: 14 decanted: (Y/N) N Date Extracted: 01/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 20

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

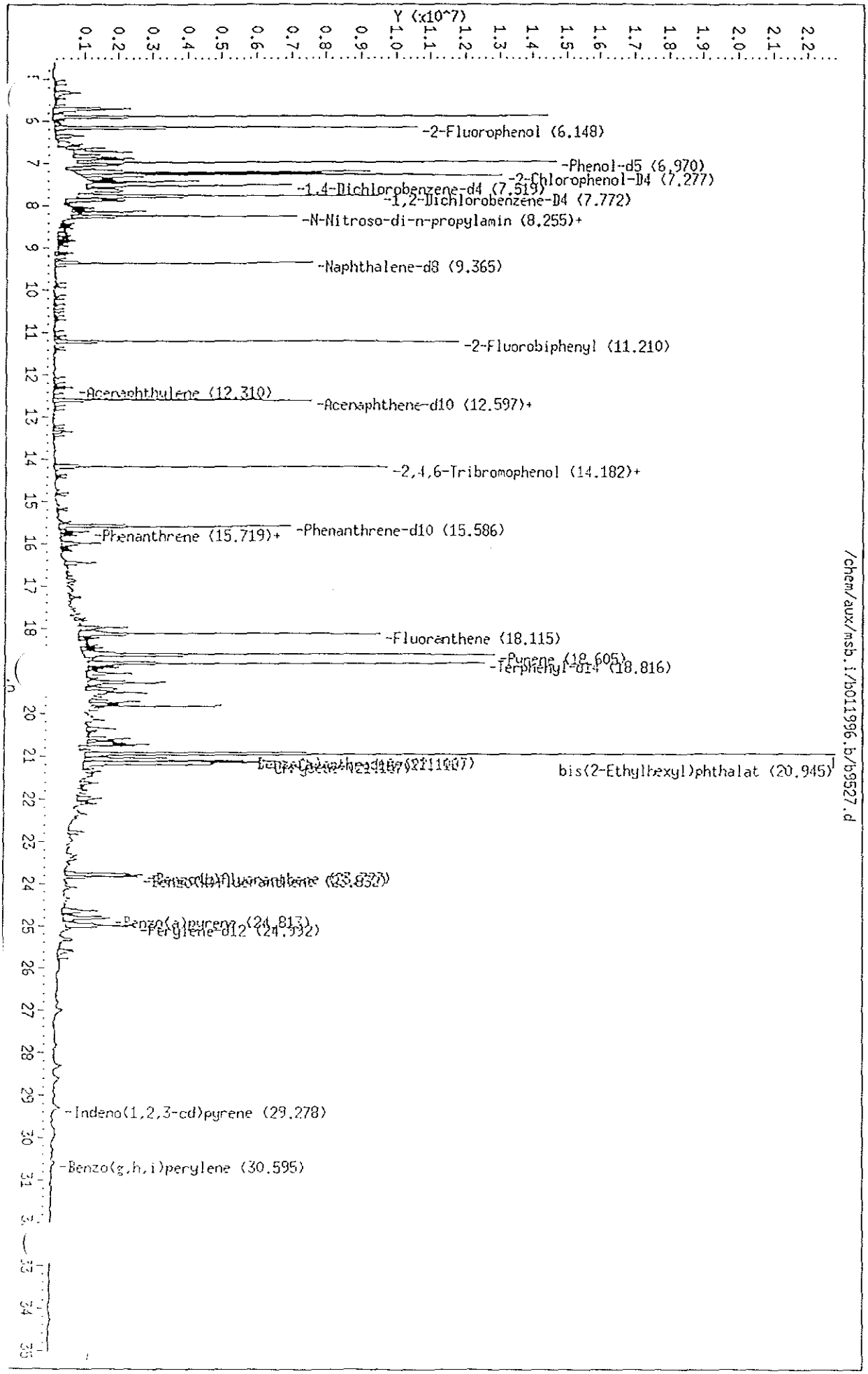
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-Pentanone, 4-hydroxy-4-met	5.87	3800	JNA
2.	unknown	6.55	390	J
3.	Unk hydrocarbon	6.73	530	J
. 124-18-5	Decane	7.20	2400	JN
5. 17302-28-2	Nonane, 2,6-dimethyl-	7.42	650	JN
6.	Unk substituted aromatic	7.87	570	J
7. 1120-21-4	Undecane	8.13	440	JN
8. 238-84-6	11H-Benzo[a]fluorene	19.05	490	JN
9.	Unk polynuclear aromatic	19.27	680	J
10.	Unk polynuclear aromatic	19.42	430	J
11.	Unk polynuclear aromatic	19.71	420	J
12. 103-23-1	Hexanedioic acid, bis(2-ethy	19.82	770	JN
13. 82-05-3	7H-Benz[de]anthracen-7-one	20.34	440	JN
14.	Unk polynuclear aromatic	20.58	540	J
15.	Unk polynuclear aromatic	20.64	450	J
16.	Unk polynuclear aromatic	20.71	750	J
17. 82-05-3	7H-Benz[de]anthracen-7-one	20.76	880	JN
18. 2498-77-3	Benz[a]anthracene, 1-methyl-	21.97	430	JN
19. 198-55-0	Perylene	24.64	720	JN
20. 629-94-7	Heneicosane	25.60	460	JN

Data File: /chem/aux/msb.i/b011996.b/b9527.d
Date : 19-JAN-96 16:12
Client ID:
Sample Info: 17418n clj78cs003

Column phase: J&W DB-5

Instrument: msb.i

Operator: K. Bigelow
Column diameter: 0.25



Data File: /chem/aux/msb.i/b011996.b/b9527.d
Report Date: 20-Jan-1996 09:17

OHM Analytical Division

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/aux/msb.i/b011996.b/b9527.d
Lab Smp Id:
Inj Date : 19-JAN-96 16:12
Operator : K. Bigelow Inst ID: msb.i
Smp Info : 17418n clj78cs003
Misc Info : jp2493c,n2c60119,m1,1,1
Comment :
Method : /chem/aux/msb.i/b011996.b/0112996bclp.m
Meth Date : 20-Jan-1996 09:14 kathryn Quant Type: ISTD
Cal Date : 19-JAN-96 10:44 Cal File: b9520.d
Als bottle: 9
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

KBigelow

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
S		2-Fluorophenol	112.00	6.159	6.157	(0.819)	5210771	90.0	90.0(R)
S	4	Phenol-d5	99.00	6.970	6.976	(0.927)	6498390	92.0	92.0(R)
S	7	2-Chlorophenol-D4	132.00	7.277	7.283	(0.963)	5291215	95.7	95.7(R)
*	10	1,4-Dichlorobenzene-d4	152.00	7.519	7.524	(1.000)	1735957	40.0	
S	13	1,2-Dichlorobenzene-D4	152.00	7.772	7.787	(1.034)	2307754	62.8	62.8(R)
	17	N-Nitroso-di-n-propylamine	70.00	8.255	7.995	(1.093)	560766	11.3	~~11.3~~(Q) ND, Rt, MS
S	19	Nitrobenzene-d5	82.00	8.255	8.269	(0.831)	3386476	59.1	59.1(R)
	21	Isophorone	82.00	8.255	8.597	(0.831)	3386476	28.6	~~28.6~~ ND, Rt, MS
*	27	Naphthalene-d8	136.00	9.365	9.386	(1.000)	5513501	40.0	
S	37	2-Fluorobiphenyl	172.00	11.210	11.228	(0.690)	6883635	70.1	70.1(R)
	42	Acenaphthylene	152.00	12.310	12.324	(0.977)	473596	3.36	3.36
*	44	Acenaphthene-d10	164.00	12.597	12.620	(1.000)	3053982	40.0	
	48	2,4-Dinitrotoluene	165.00	12.597	12.949	(1.000)	424466	10.6	~~10.6~~(Q) ND, Rt, MS
S	56	2,4,6-Tribromophenol	330.00	14.182	14.200	(1.126)	2568739	150	150(R)
	57	4-Bromophenyl-phenylether	248.00	14.182	14.595	(0.910)	182642	5.52	~~5.52~~(Q) ND, Rt, MS
*	60	Phenanthrene-d10	188.00	15.586	15.604	(1.000)	4894802	40.0	
	61	Phenanthrene	178.00	15.670 ~~15.719~~	15.648	(1.009)	594227	4.38	~~4.38~~ 0.9
	62	Anthracene	178.00	15.719	15.747	(1.009)	594227	4.28	4.28
	65	Fluoranthene	202.00	18.115	18.134	(1.162)	7338217	50.2	50.2
	67	Pyrene	202.00	18.616	18.617	(0.862)	11740425	86.8	86.8
S	68	Terphenyl-d14	244.00	18.816	18.826	(0.891)	7809277	83.7	83.7(R)
	70	bis(2-Ethylhexyl)phthalate	149.00	20.945	20.954	(0.992)	12826198	132	132
	72	Benzo(a)anthracene	228.00	21.067	21.086	(0.993)	3485423	32.2	32.2
*	73	Chrysene-d12	240.00	21.112	21.131	(1.000)	3503592	40.0	
		Chrysene	228.00	21.157	21.186	(1.002)	4729410	46.4	46.4
		Benzo(b)fluoranthene	252.00	23.777	23.801	(0.951)	2314241	30.3	30.3
	77	Benzo(k)fluoranthene	252.00	23.832	23.879	(0.953)	2525586	29.3	29.3
	78	Benzo(a)pyrene	252.00	24.802	24.857	(0.992)	1252158	17.5	17.5
*	79	Perylene-d12	264.00	25.003	25.033	(1.000)	2550485	40.0	

Data File: /chem/aux/msb.i/b011996.b/b9527.d
Report Date: 20-Jan-1996 09:17

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/ml)
81 Indeno(1,2,3-cd)pyrene	276.00	29.278	29.376	(1.171)	308005	4.64	4.64
82 Benzo(g,h,i)perylene	276.00	30.595	30.694	(1.224)	183260	3.47	3.47

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: /chem/aux/msb.i/b011996.b/b9527.d

Date : 19-JAN-96 16:12

Client ID:

Instrument: msb.i

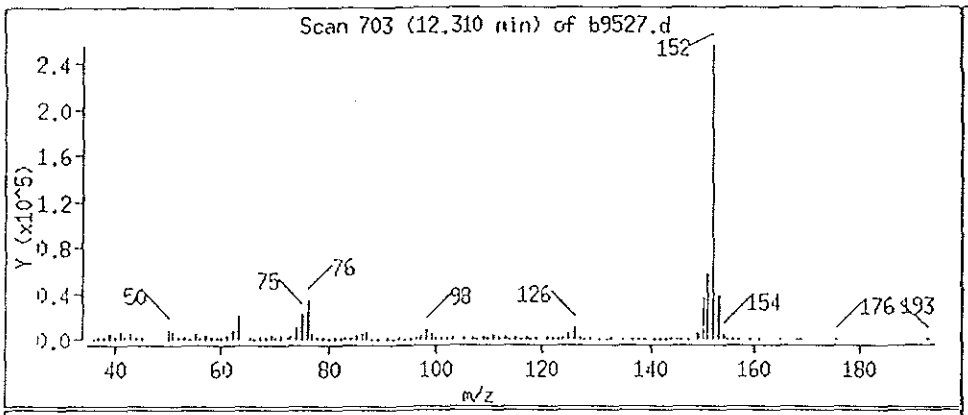
Sample Info: 17418n clj78cs003

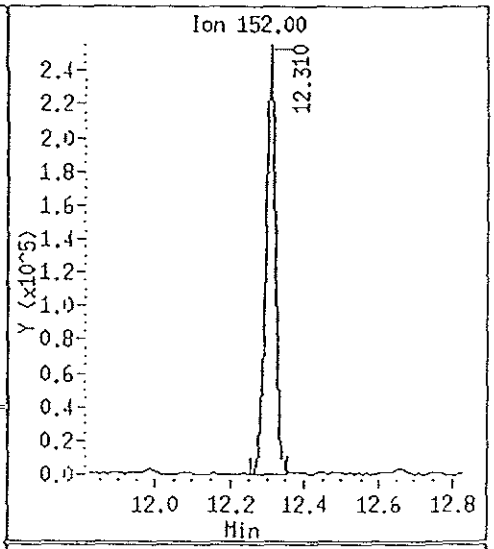
Operator: K. Bigelow

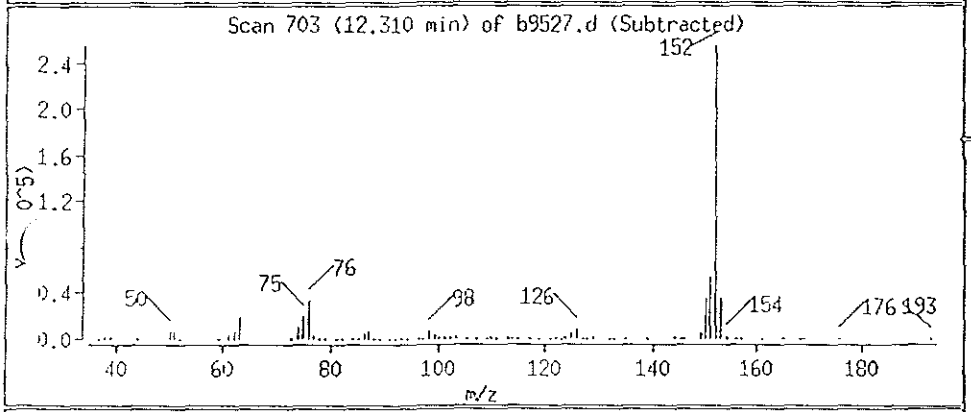
Column phase: J&W DB-5

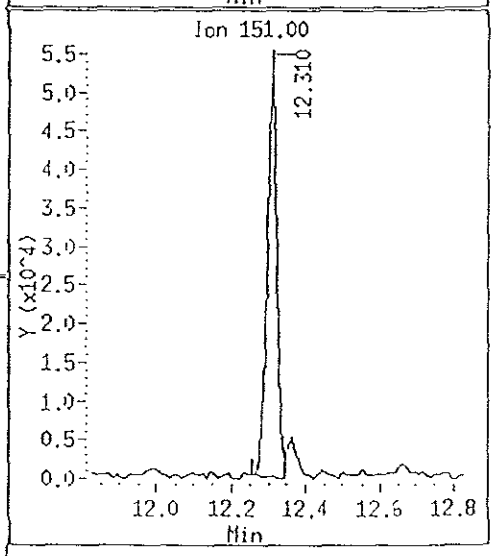
Column diameter: 0.25

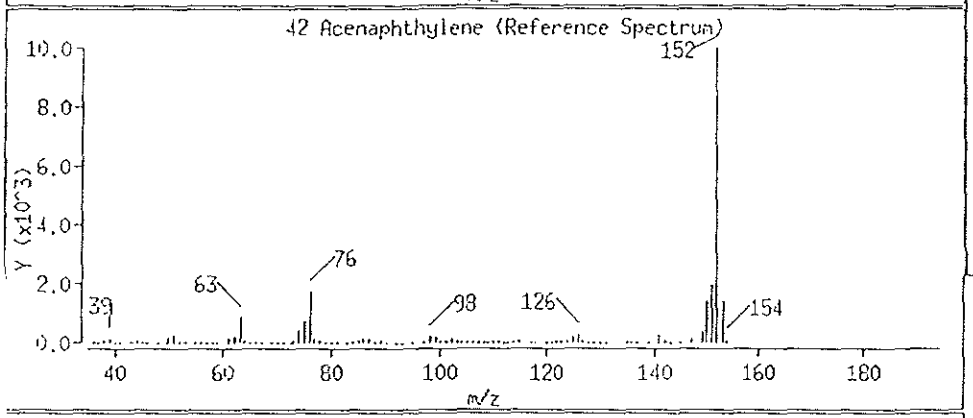
42 Acenaphthylene

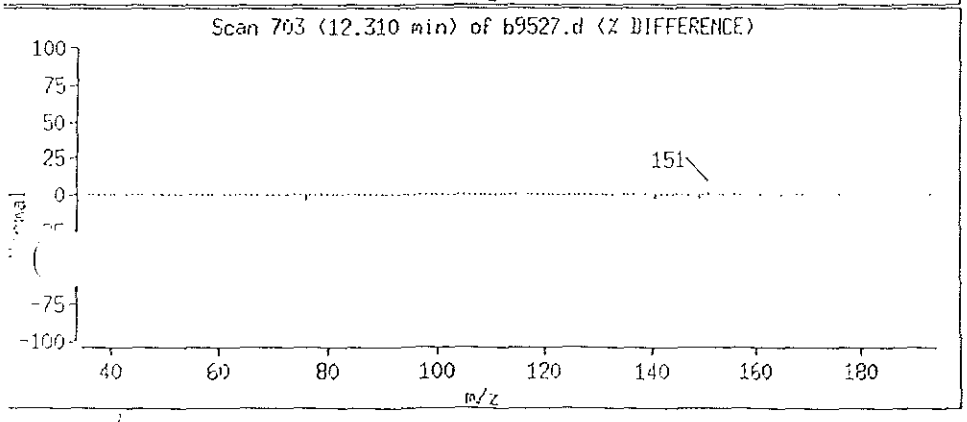












Reprint KB

Data File: /chem/aux/msb.i/b011996.b/b9527.d
Date : 19-JAN-96 16:12
Client ID:
Sample Info: 17418n clj78cs003

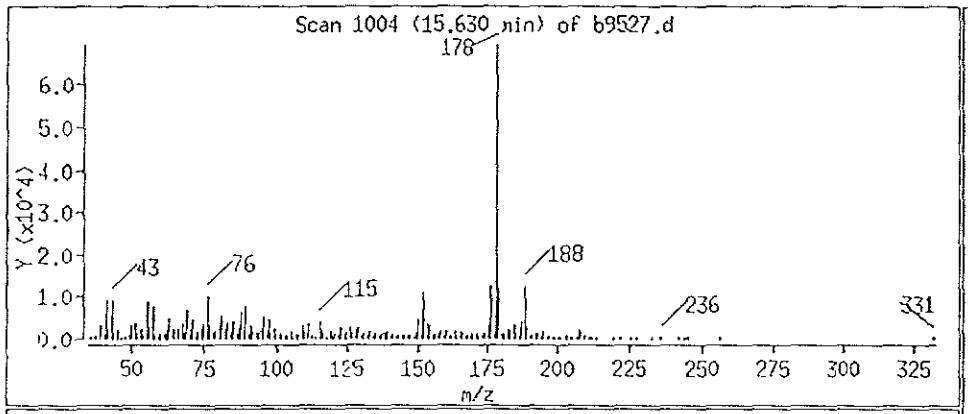
Instrument: msb.i

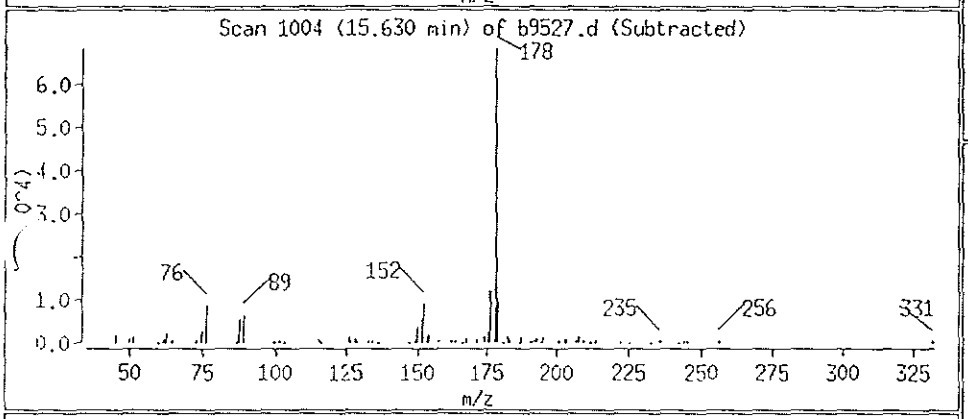
Operator: K. Bigelow

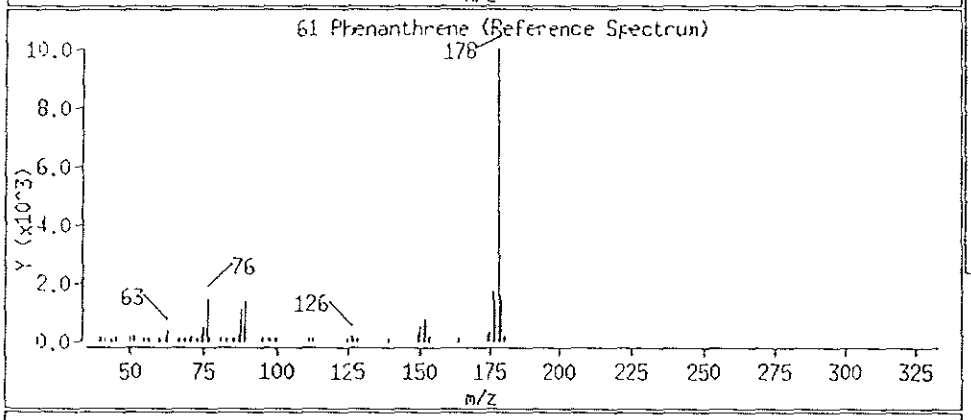
Column phase: J&W DB-5

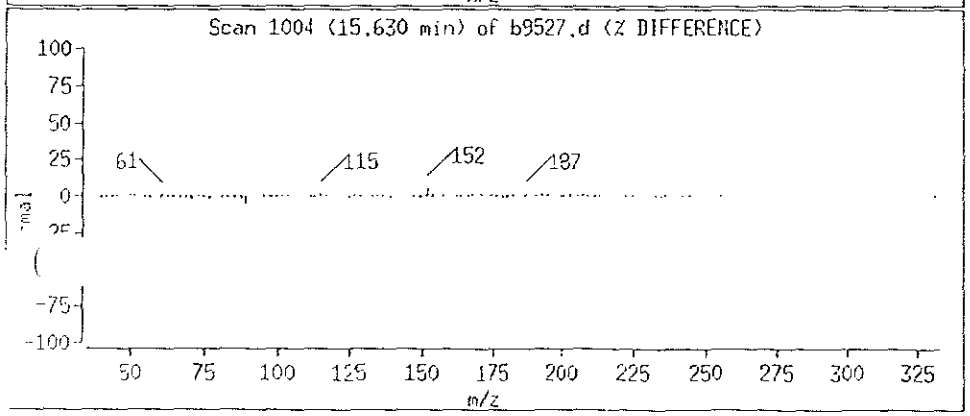
Column diameter: 0.25

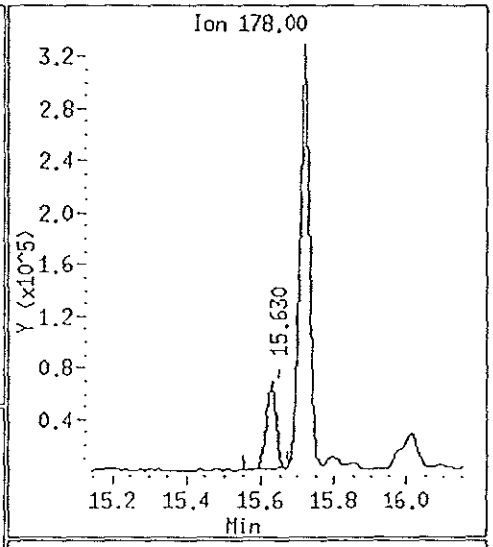
61 Phenanthrene

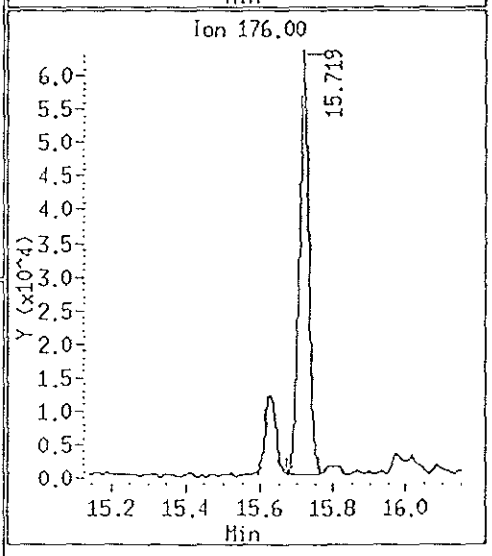












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Date : 19-JAN-96 16:12

Client ID:

Sample Info: 17418n clj78cs003

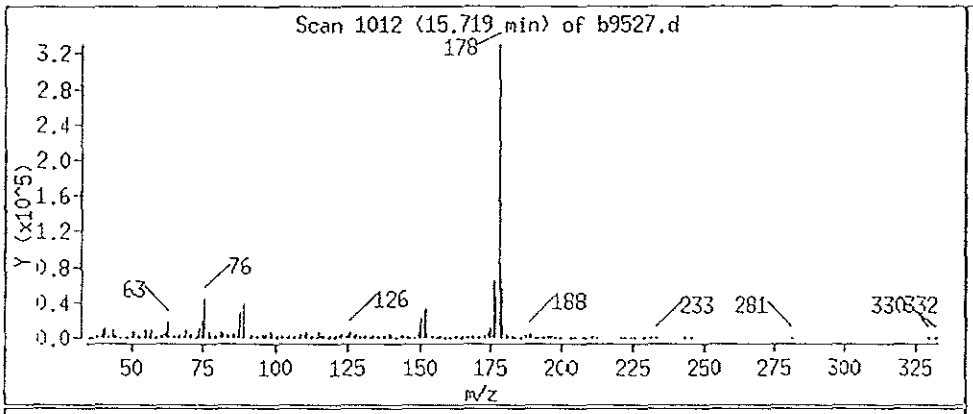
Instrument: msb.i

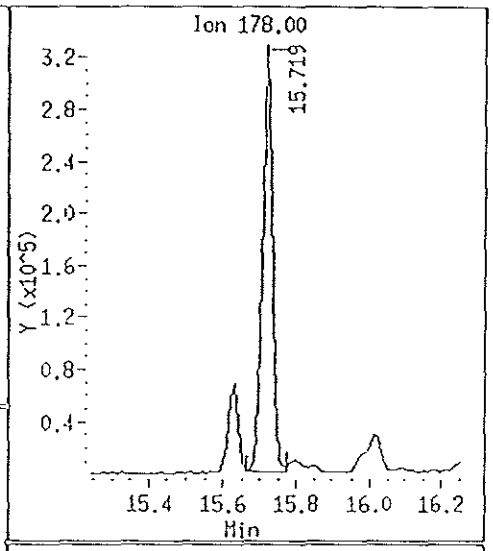
Operator: K. Bigelow

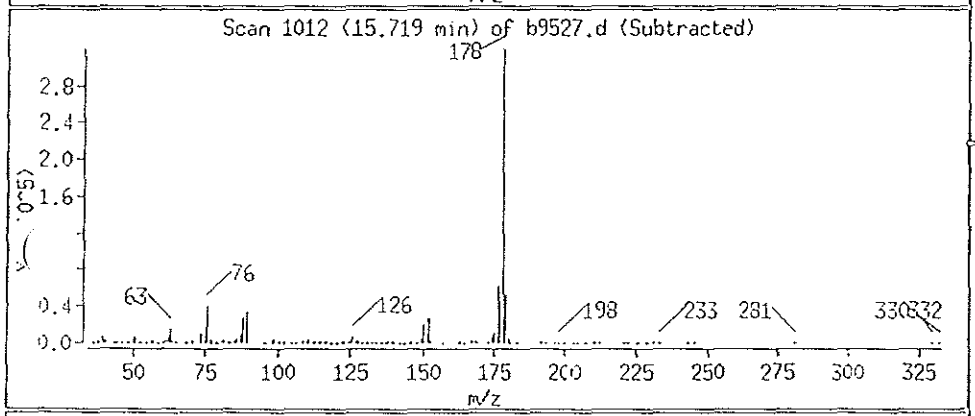
Column phase: J&W DB-5

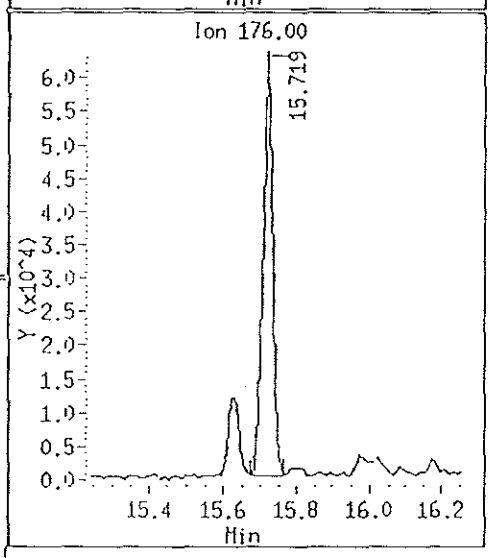
Column diameter: 0.25

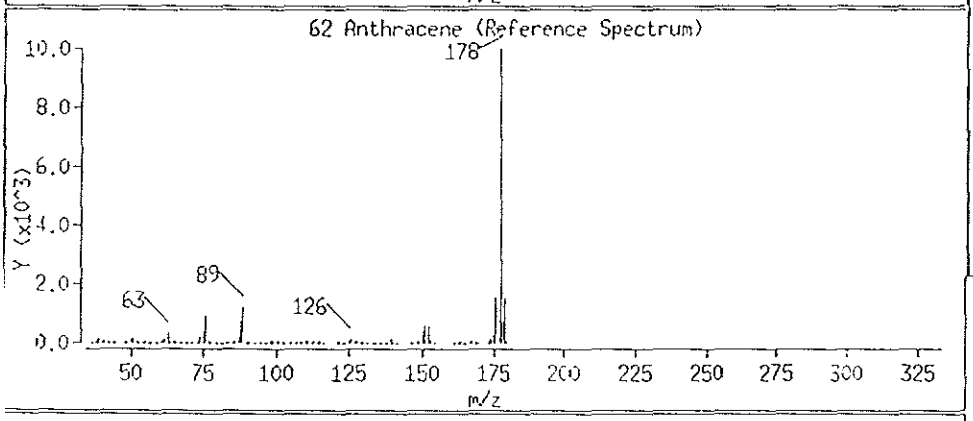
62 Anthracene

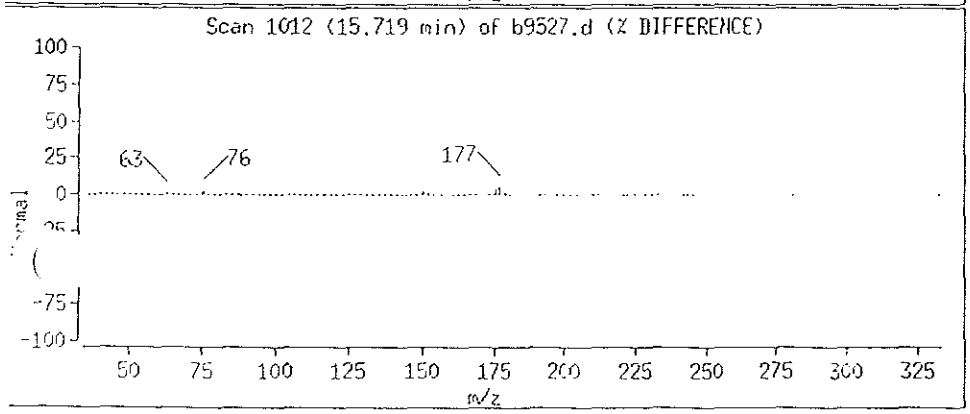








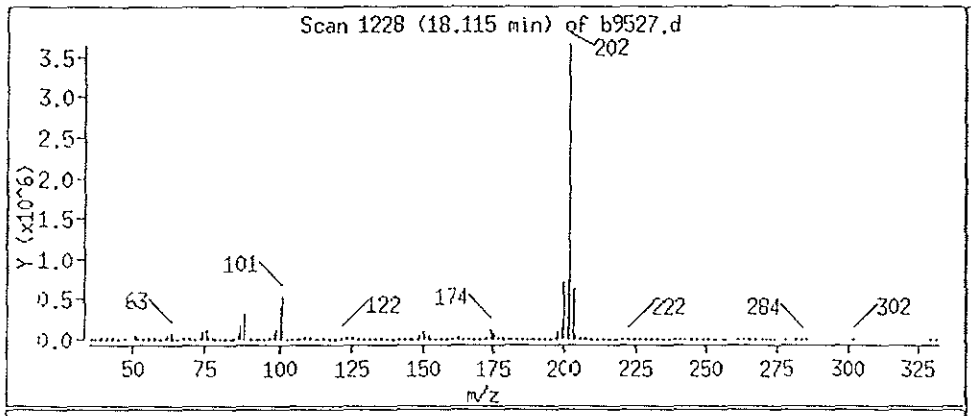


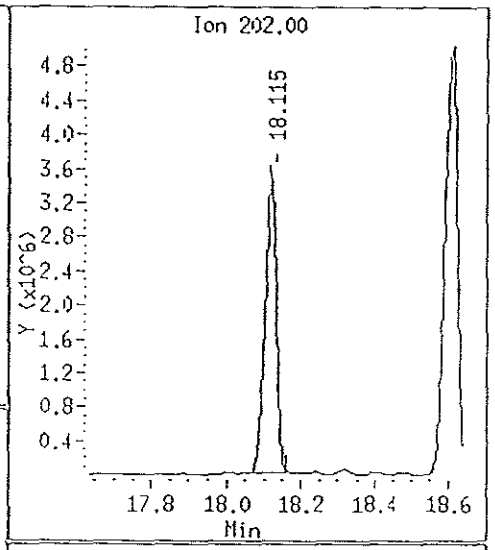


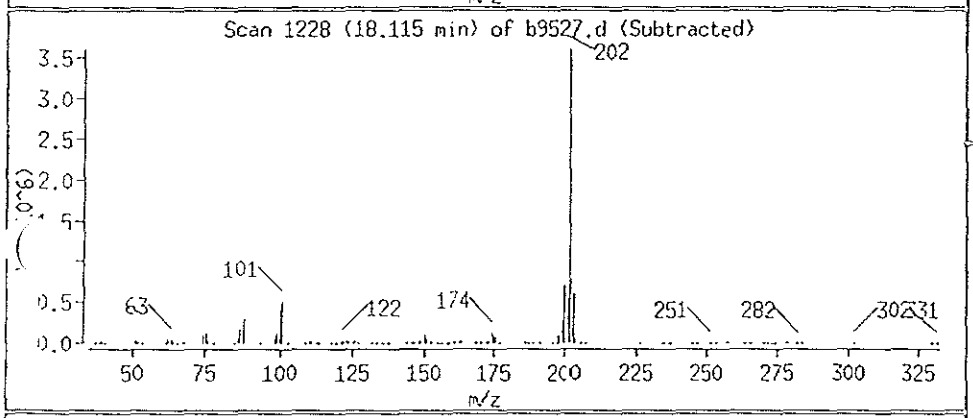
Data File: /chem/aux/msb.i/b011996.b/b9527.d
Date : 19-JAN-96 16:12
Client ID:
Sample Info: 17418n clj78cs003

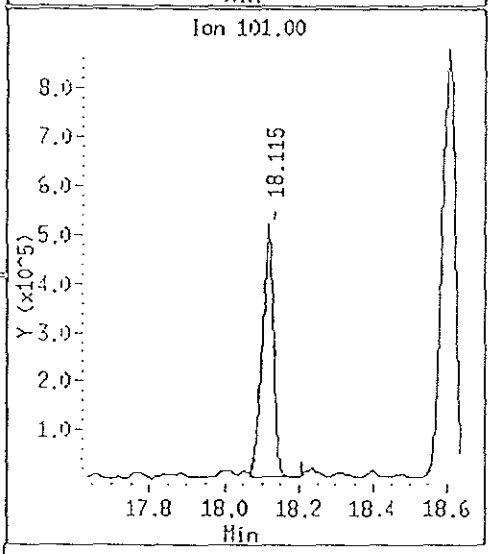
Instrument: msb.i
Operator: K. Bigelow
Column phase: J&W DB-5
Column diameter: 0.25

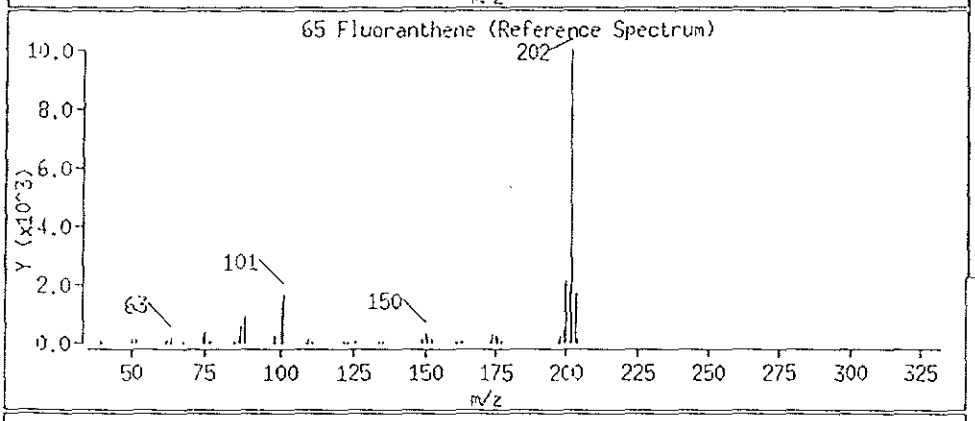
65 Fluoranthene

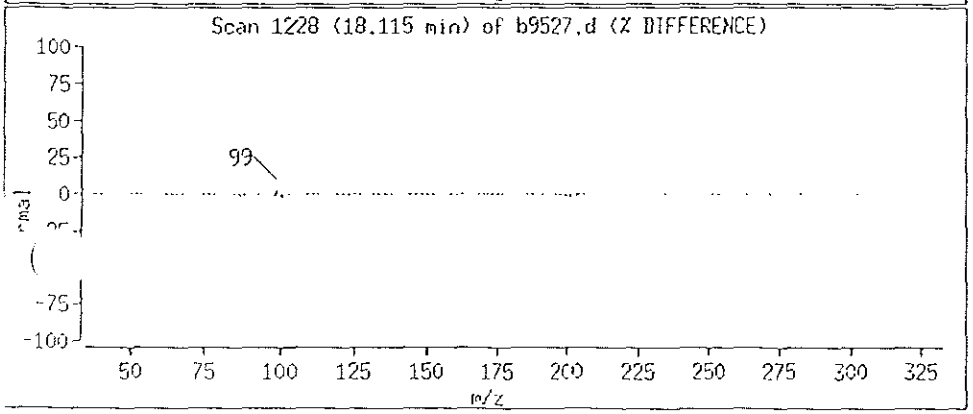












Data File: /chem/aux/msb.i/b011996.b/b9527.d

Date : 19-JAN-96 16:12

Client ID:

Instrument: msb.i

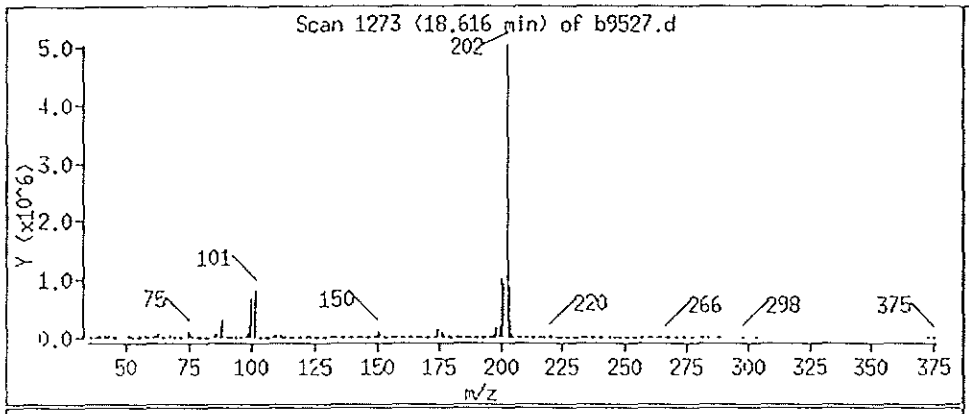
Sample Info: 17418n clj78cs003

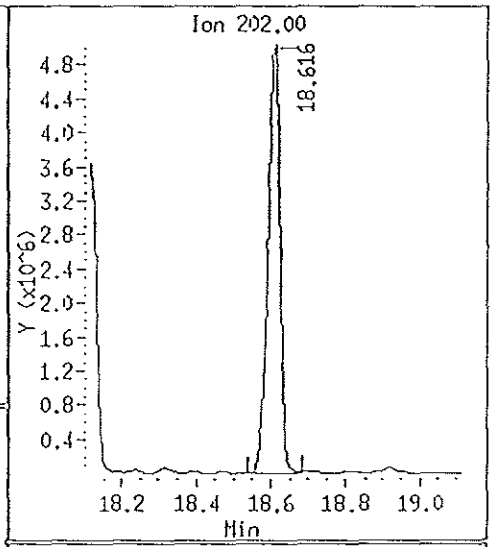
Operator: K. Bigelow

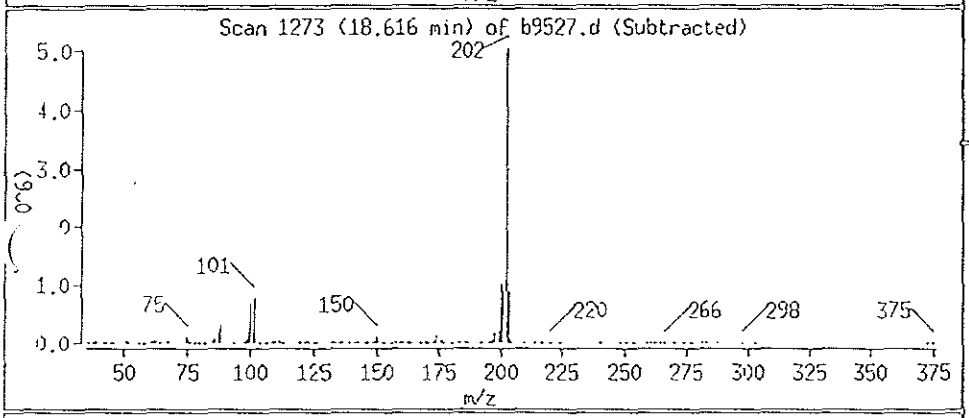
Column phase: J&W DB-5

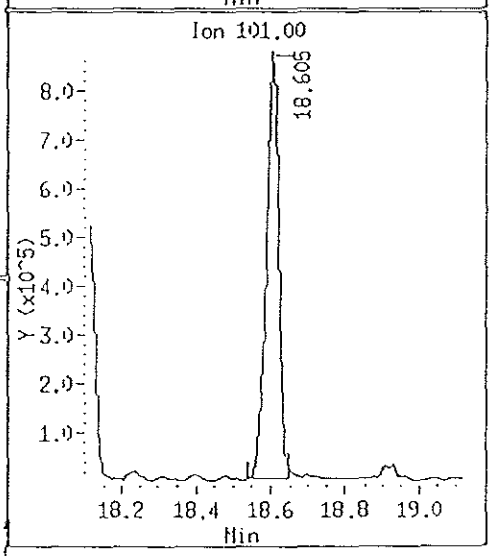
Column diameter: 0.25

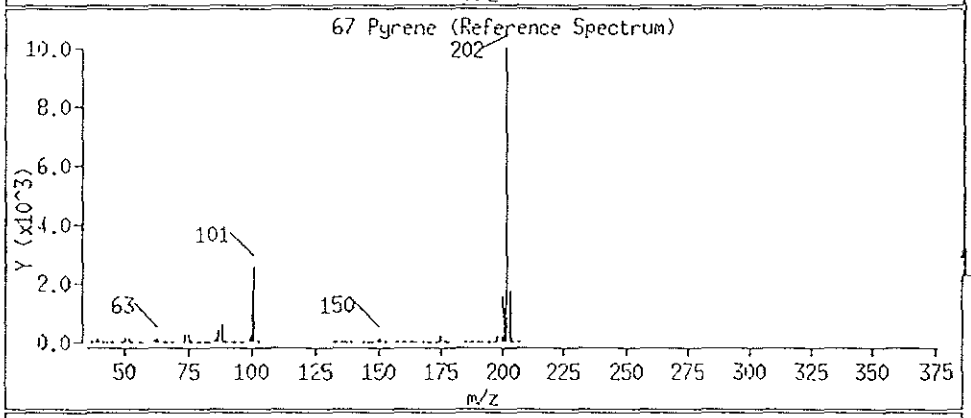
67 Pyrene

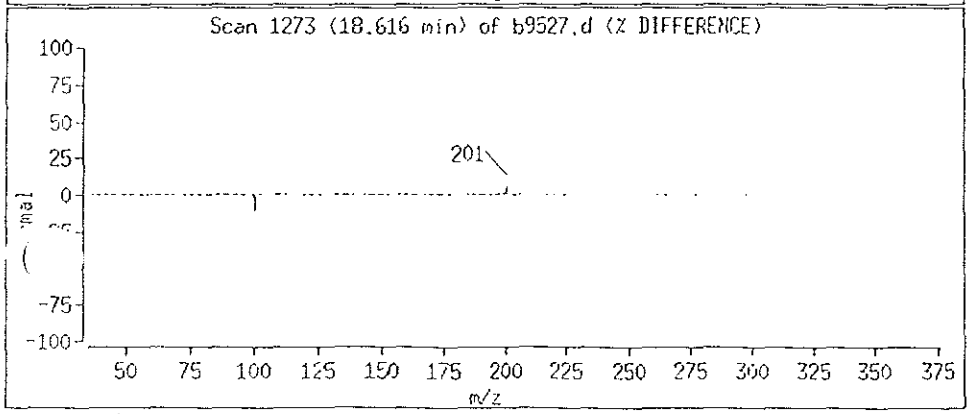












Data File: /chem/aux/msb.i/b011996.b/b9527.d
Date : 19-JAN-96 16:12
Client ID:
Sample Info: 17418n clj78cs003

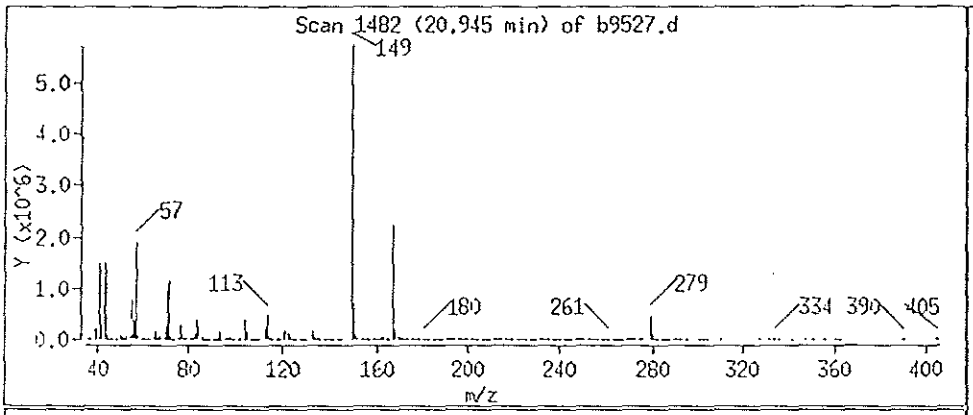
Instrument: msb.i

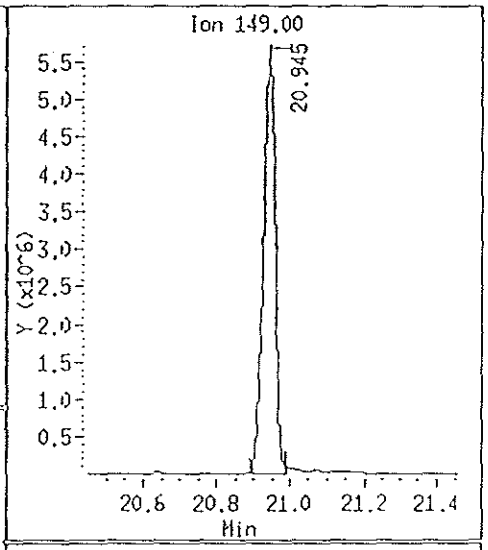
Operator: K. Bigelow

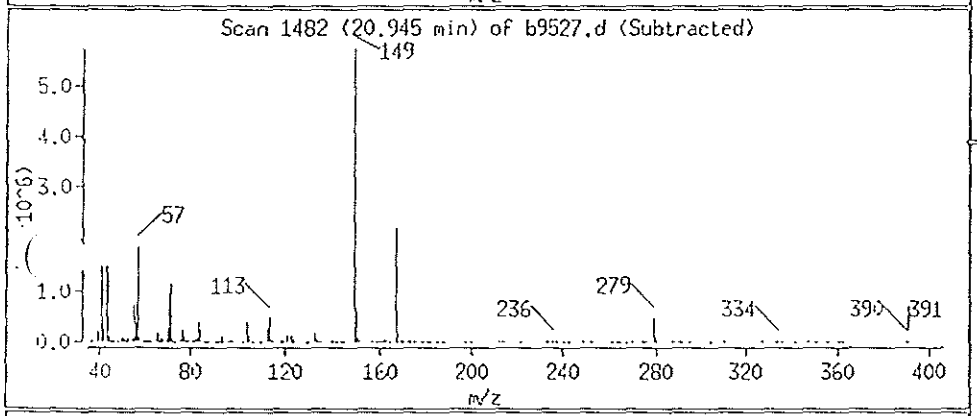
Column phase: J&W DB-5

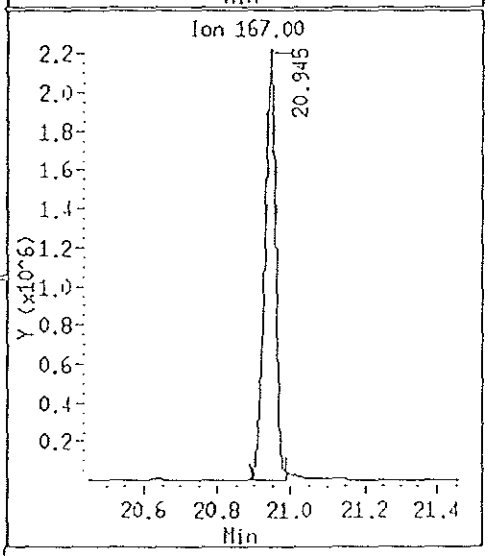
Column diameter: 0.25

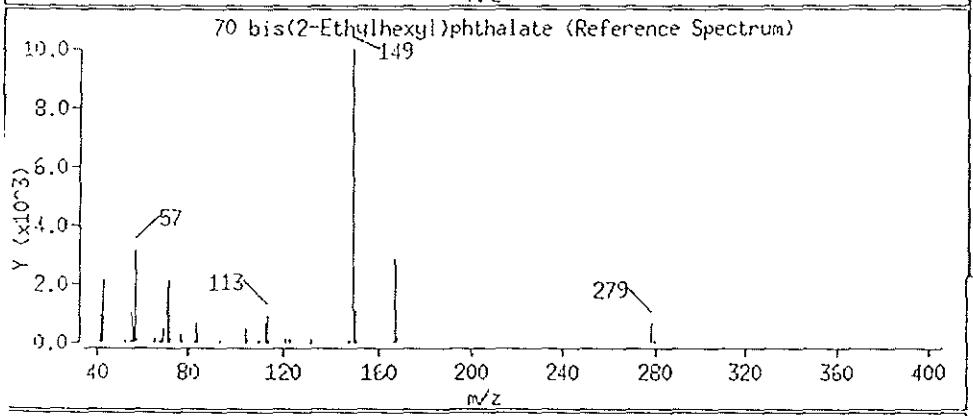
70 bis(2-Ethylhexyl)phthalate

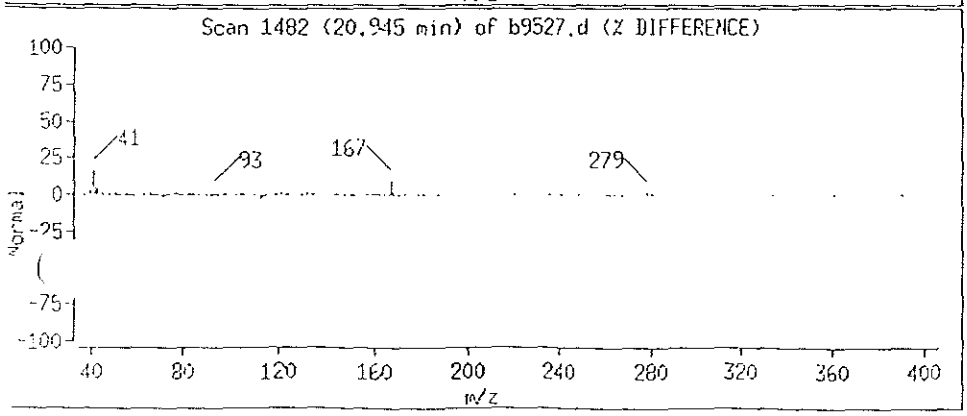












Data File: /chem/aux/msb.i/b011996.b/b9527.d

Date : 19-JAN-96 16:12

Client ID:

Instrument: msb.i

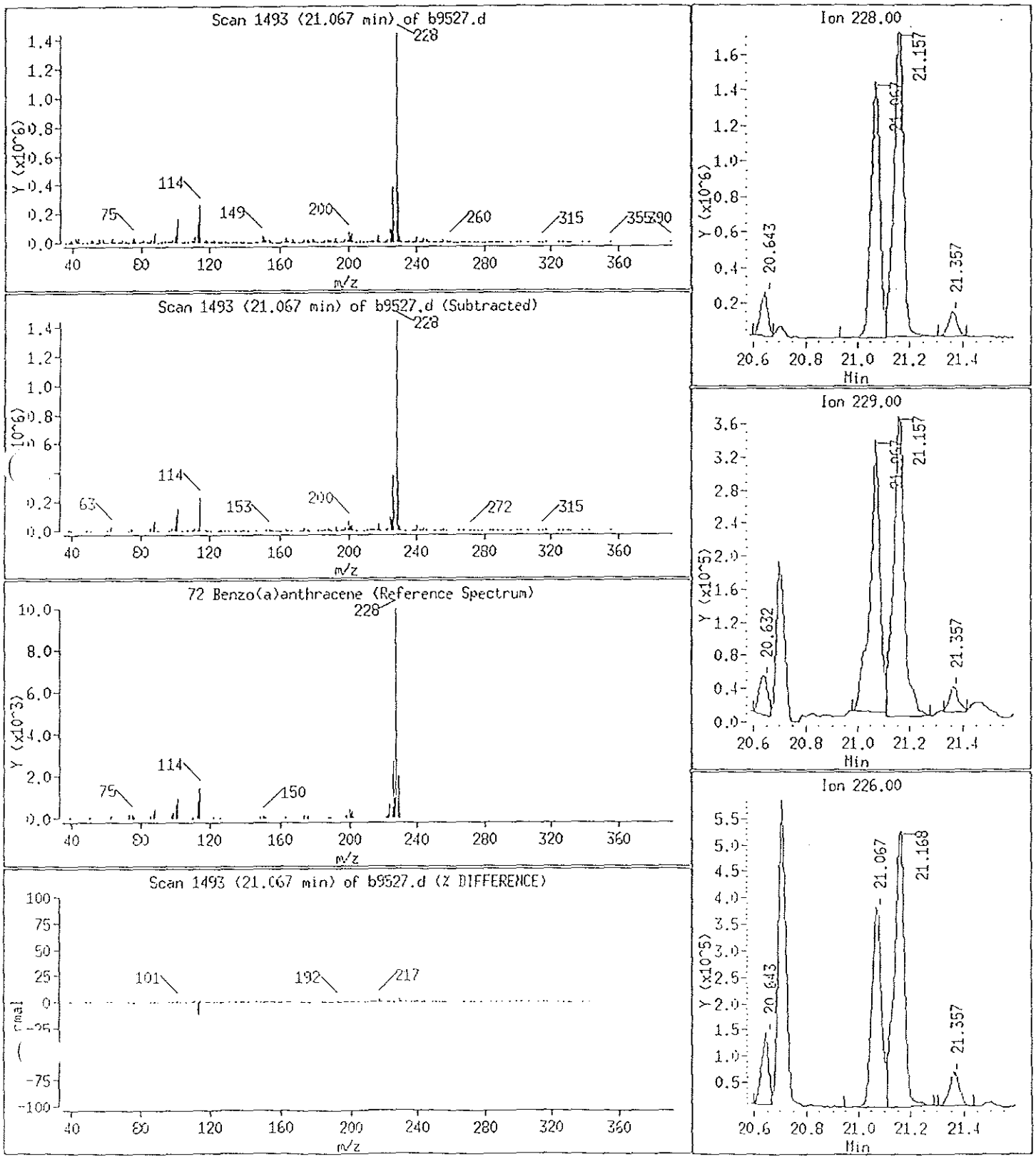
Sample Info: 17418n clj78cs003

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

72 Benzo(a)anthracene



Data File: /chem/aux/msb.i/b011996.b/b9527.d

Date : 19-JAN-96 16:12

Client ID:

Instrument: msb.i

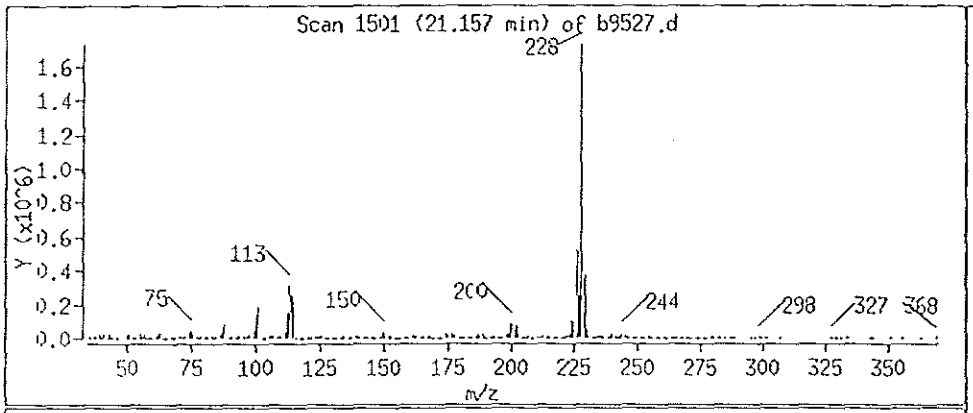
Sample Info: 17418n clj78cs003

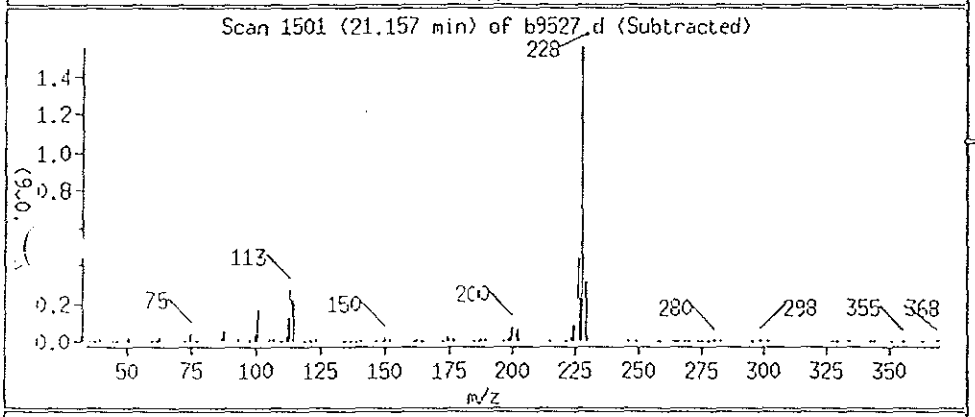
Operator: K. Bigelow

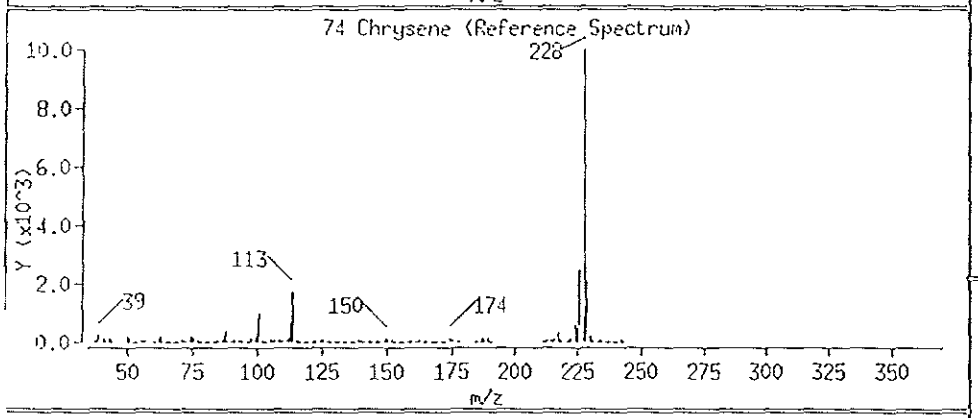
Column phase: J&W DB-5

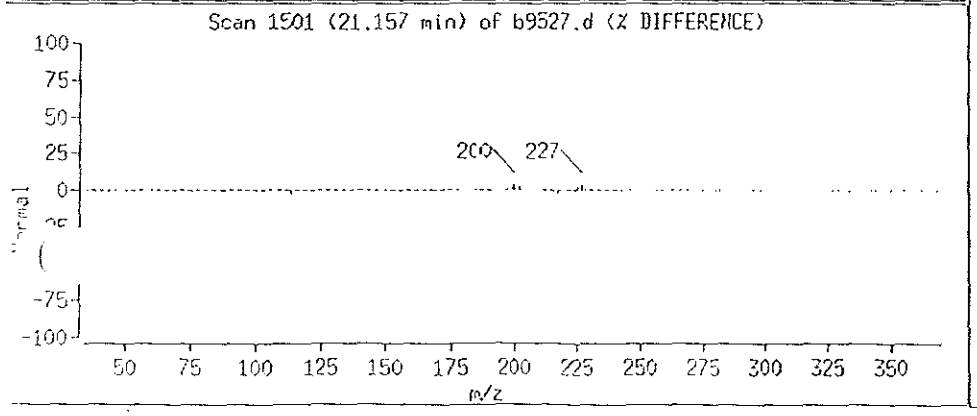
Column diameter: 0.25

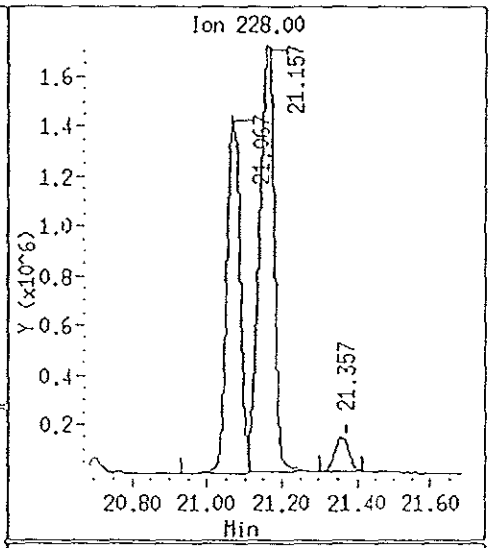
74 Chrysene

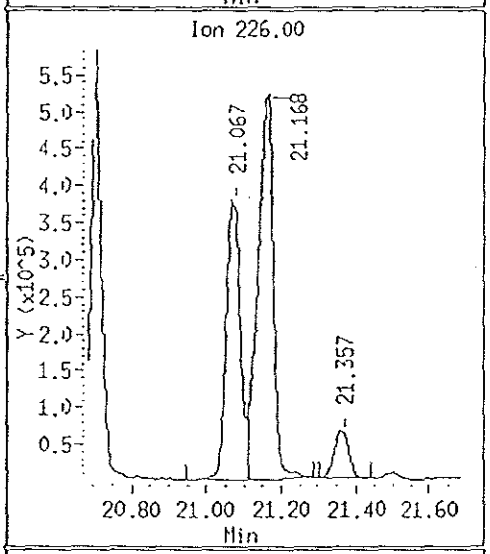


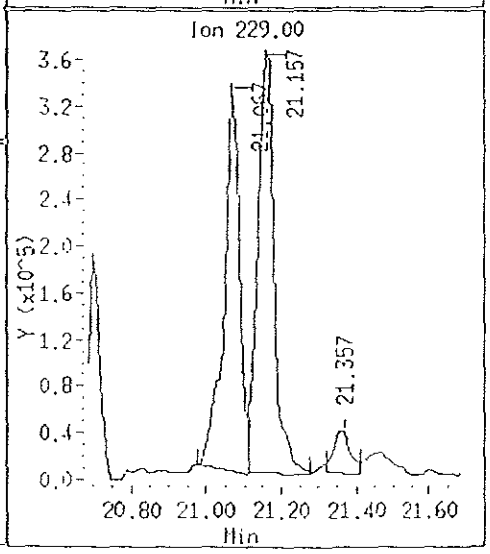












Data File: /chem/aux/msb.i/b011996.b/b9527.d

Date : 19-JAN-96 16:12

Client ID:

Instrument: msb.i

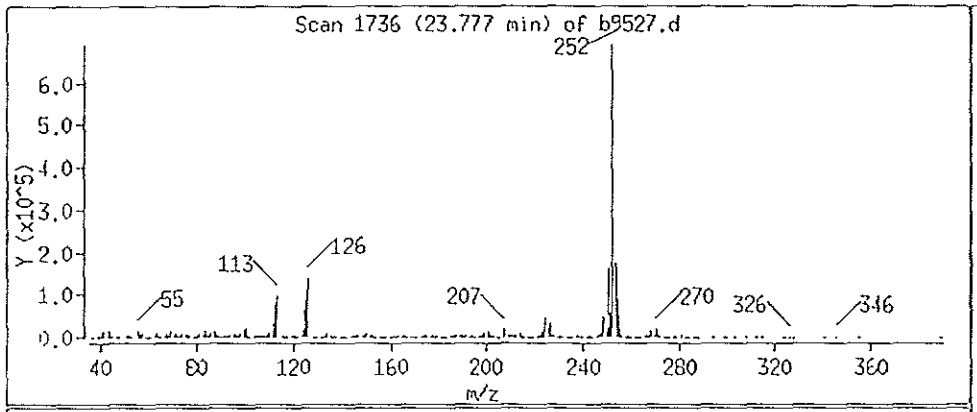
Sample Info: 17418n clj78cs003

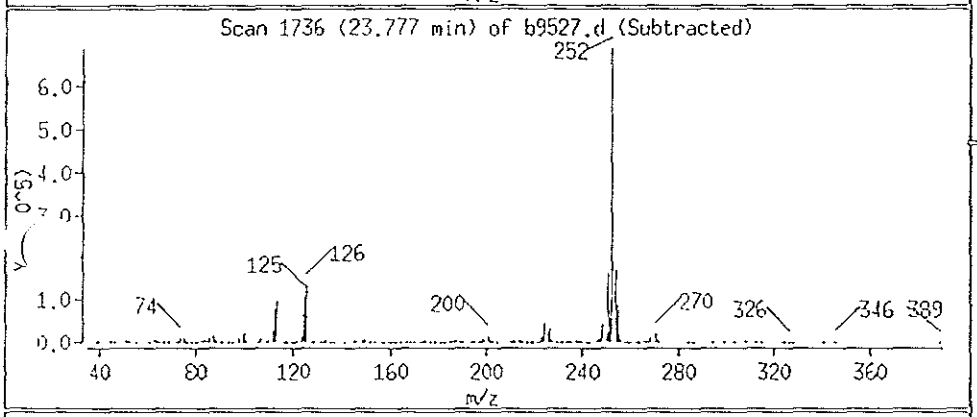
Operator: K. Bigelow

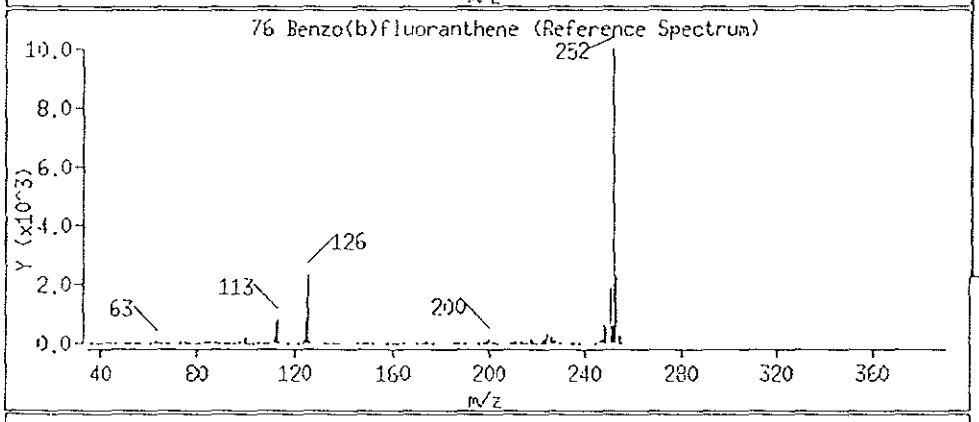
Column phase: J&W DB-5

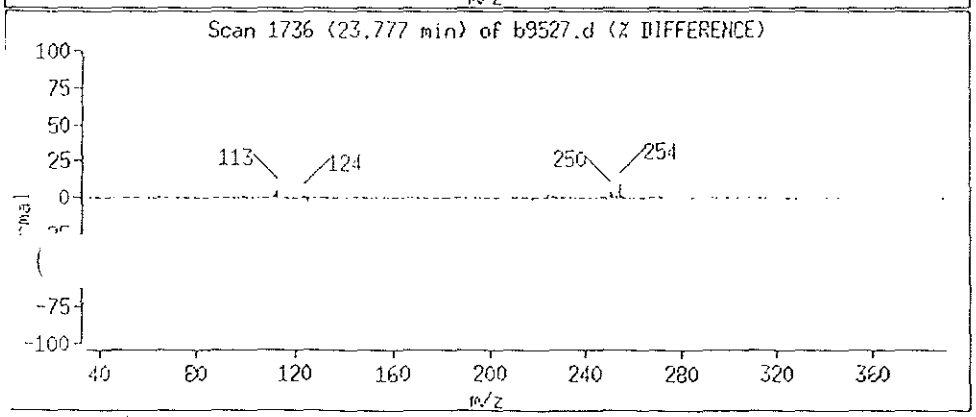
Column diameter: 0.25

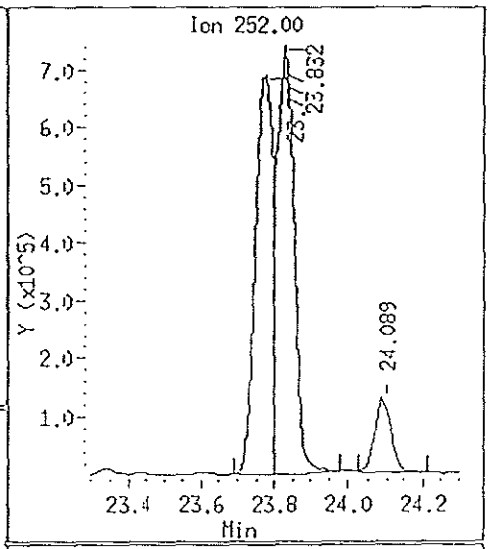
76 Benzo(b)fluoranthene

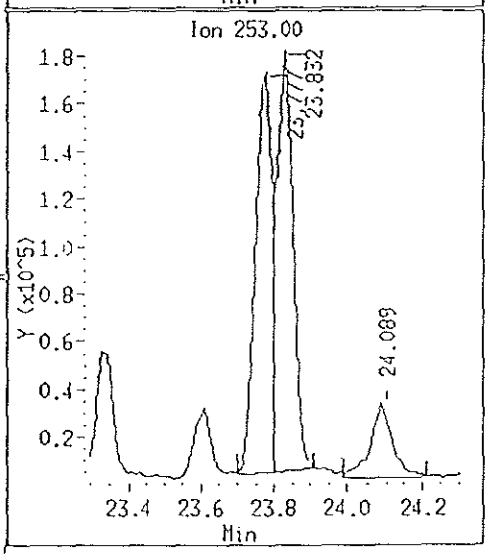












Data File: /chem/aux/msb.i/b011996.b/b9527.d

Date : 19-JAN-96 16:12

Client ID:

Sample Info: 17418n clj78cs003

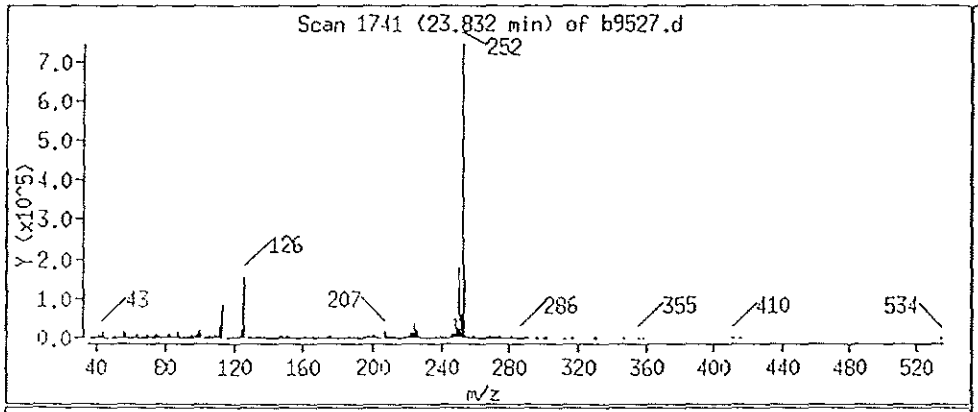
Instrument: msb.i

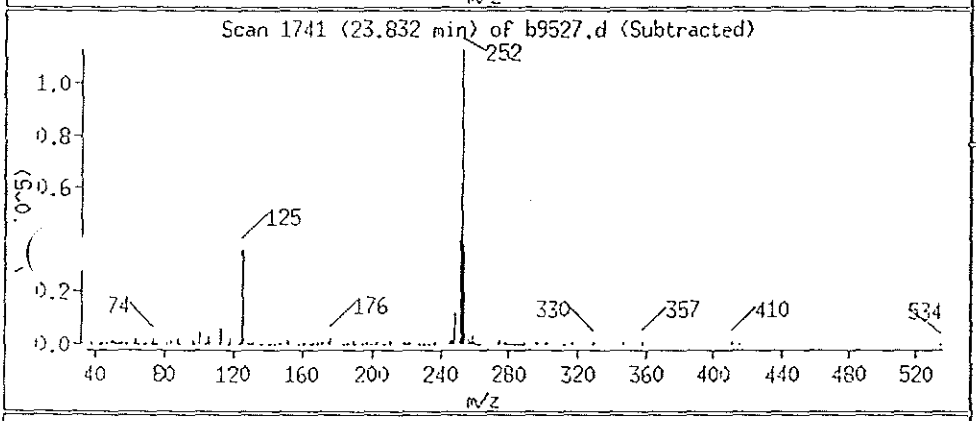
Operator: K. Bigelow

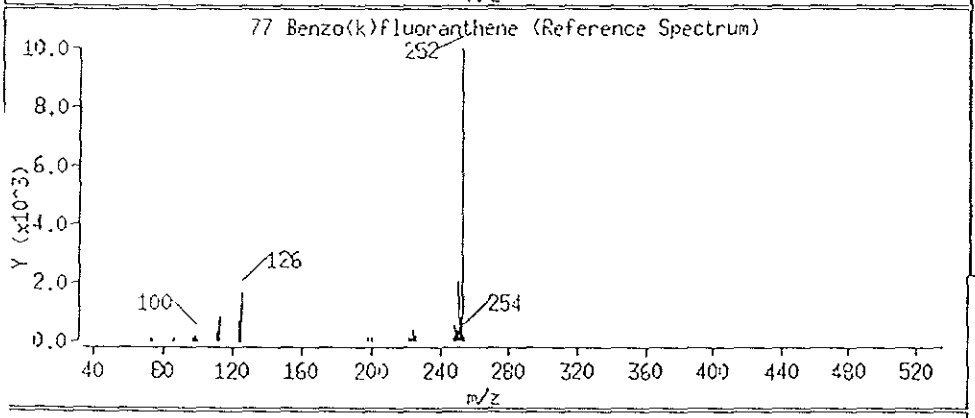
Column phase: J&W DB-5

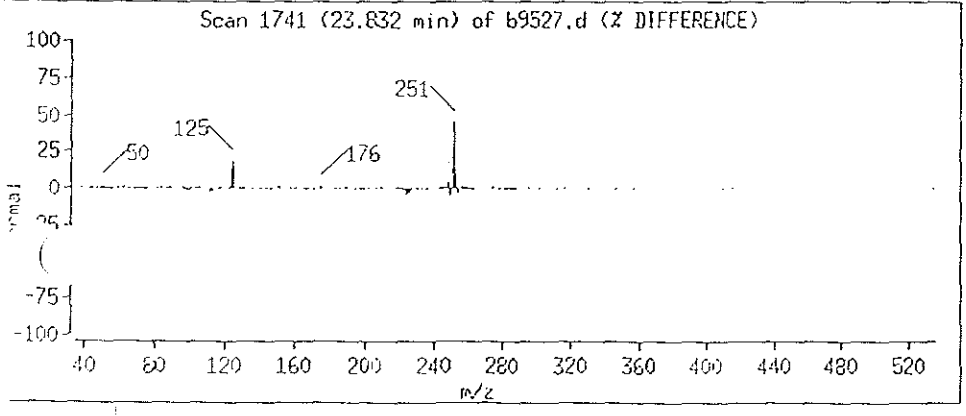
Column diameter: 0.25

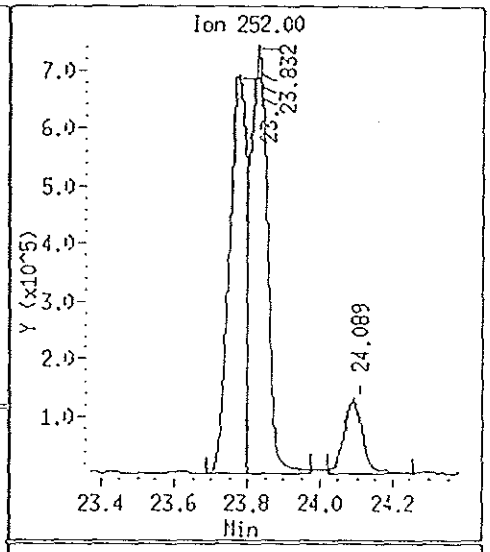
77 Benzo(k)fluoranthene

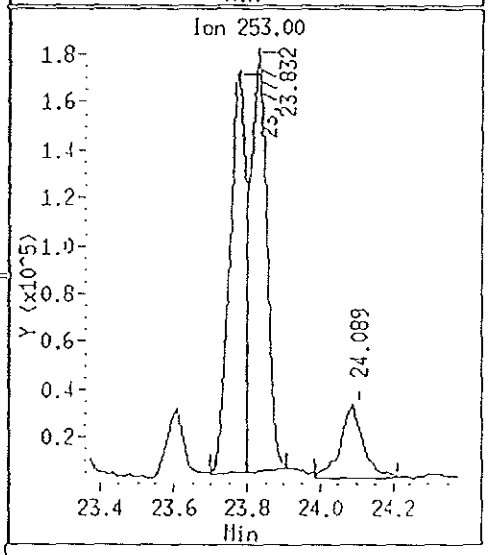












Data File: /chem/aux/msb.i/b011996.b/b9527.d

Date : 19-JAN-96 16:12

Client ID:

Sample Info: 17418n clj78cs003

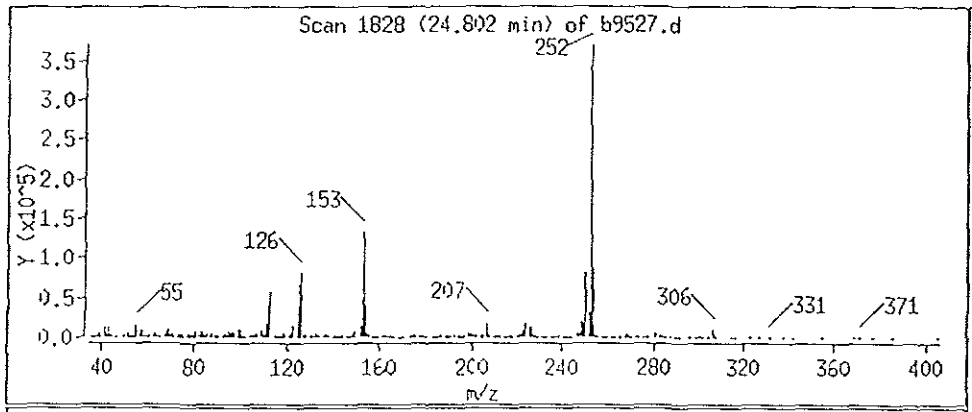
Instrument: msb.i

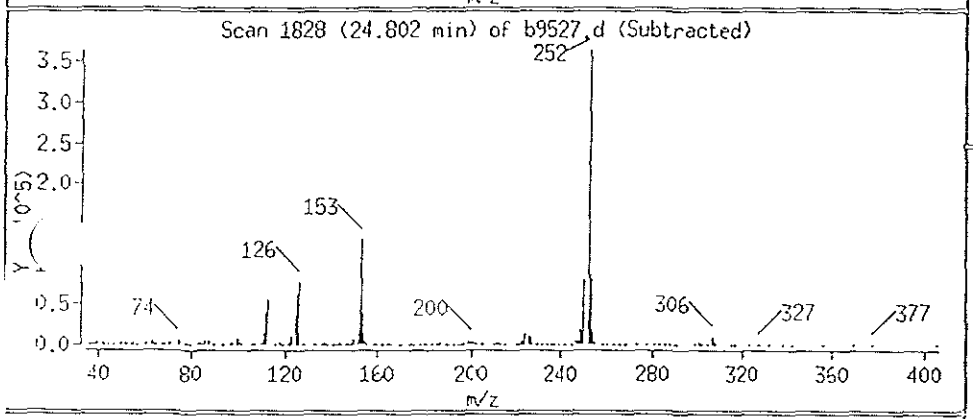
Operator: K. Bigelow

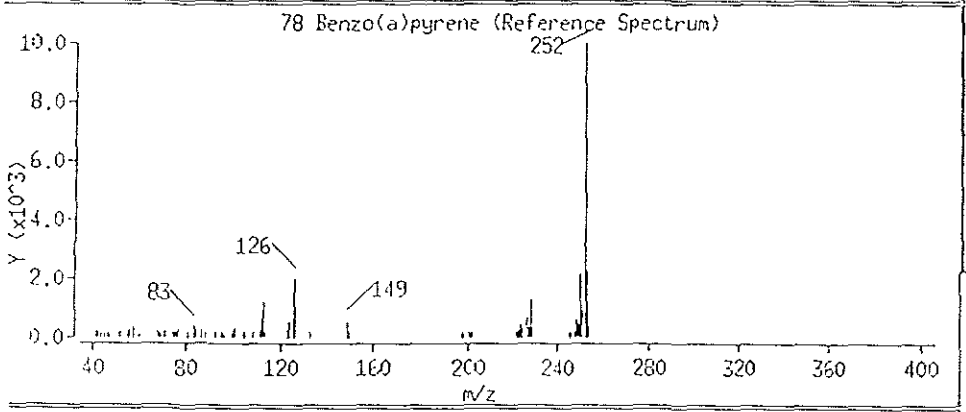
Column phase: J&W DB-5

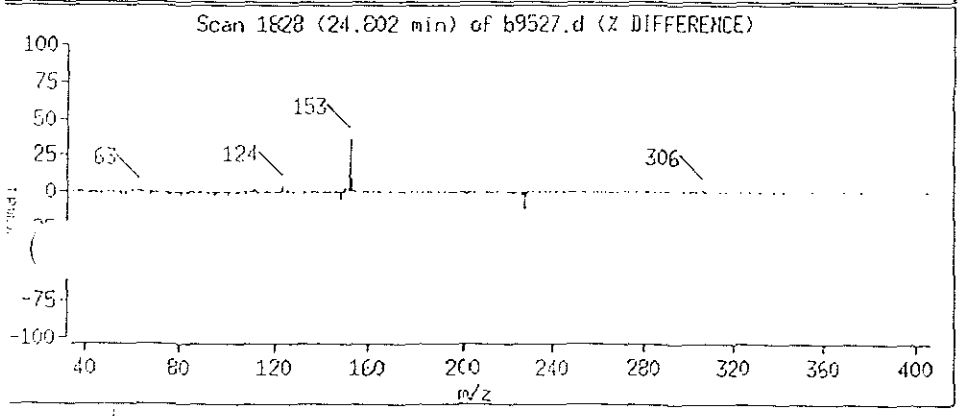
Column diameter: 0.25

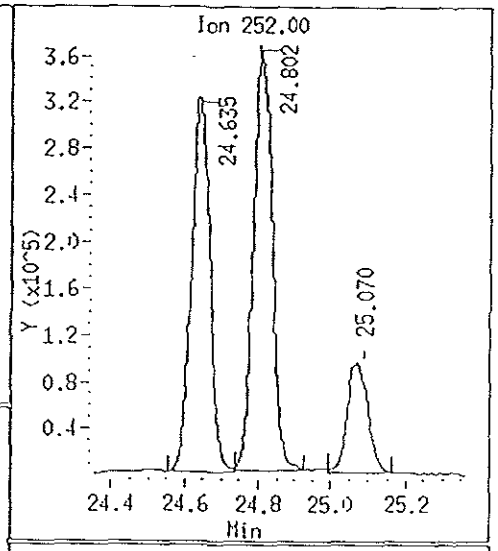
78 Benzo(a)pyrene

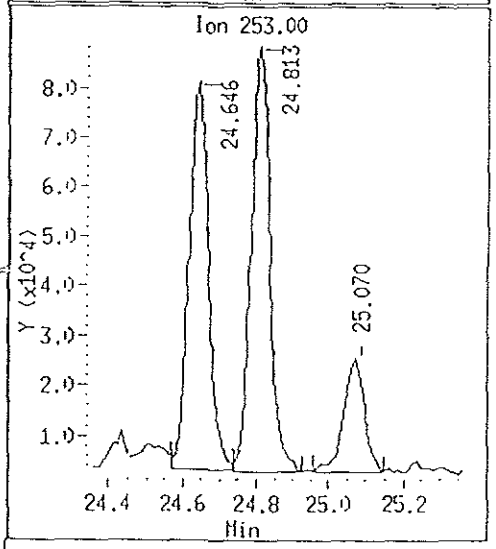












Data File: /chem/aux/msb.i/b011996.b/b9527.d

Date : 19-JAN-96 16:12

Client ID:

Instrument: msb.i

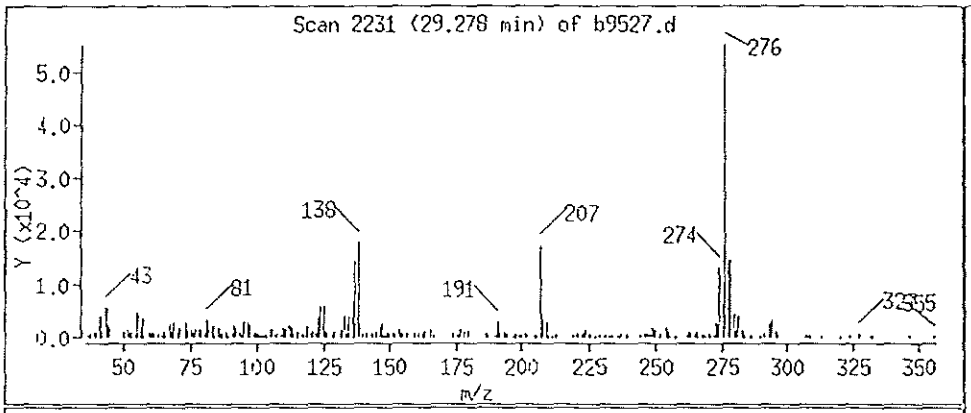
Sample Info: 17418n clj78cs003

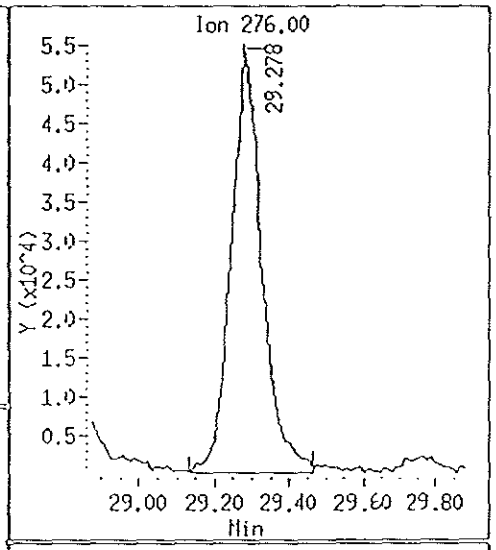
Operator: K. Bigelow

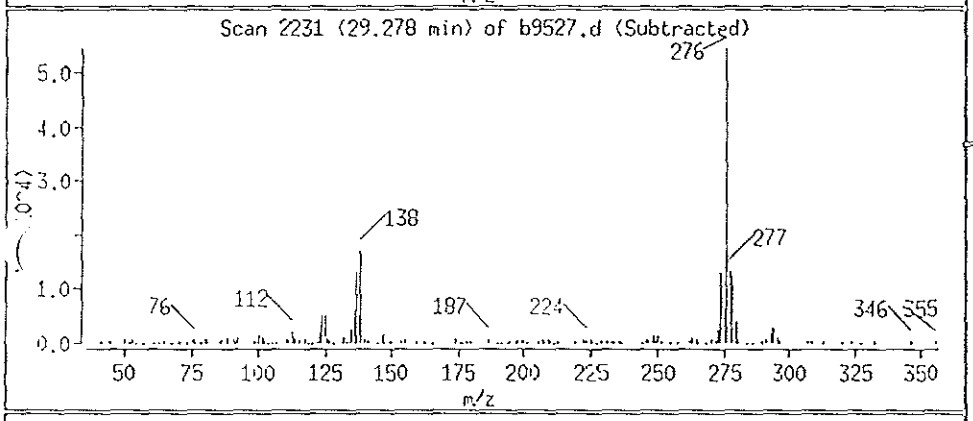
Column phase: J&W DB-5

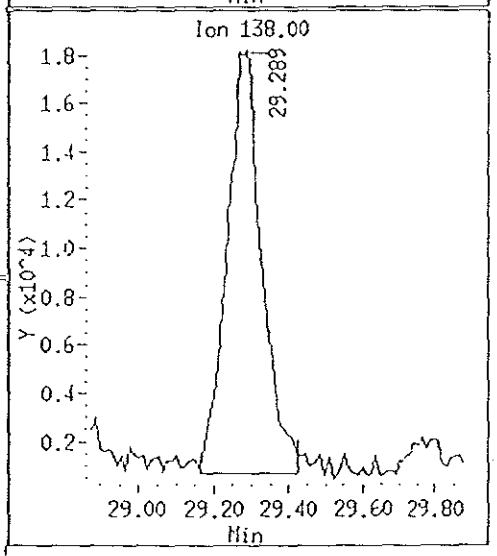
Column diameter: 0.25

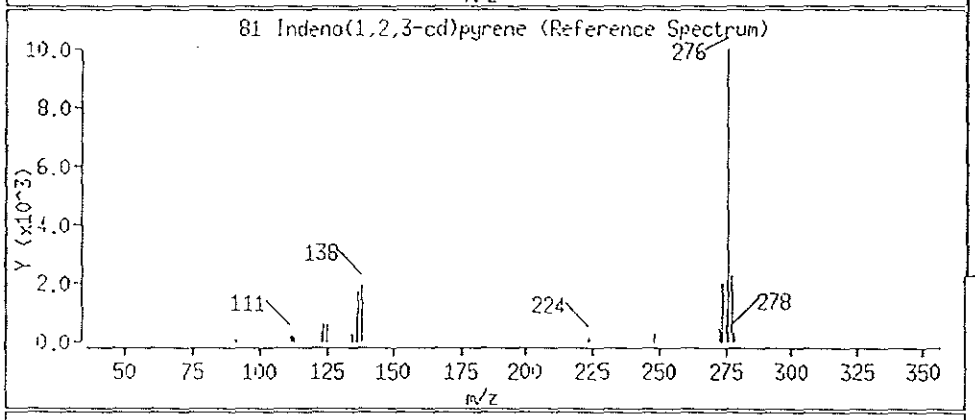
81 Indeno(1,2,3-cd)pyrene

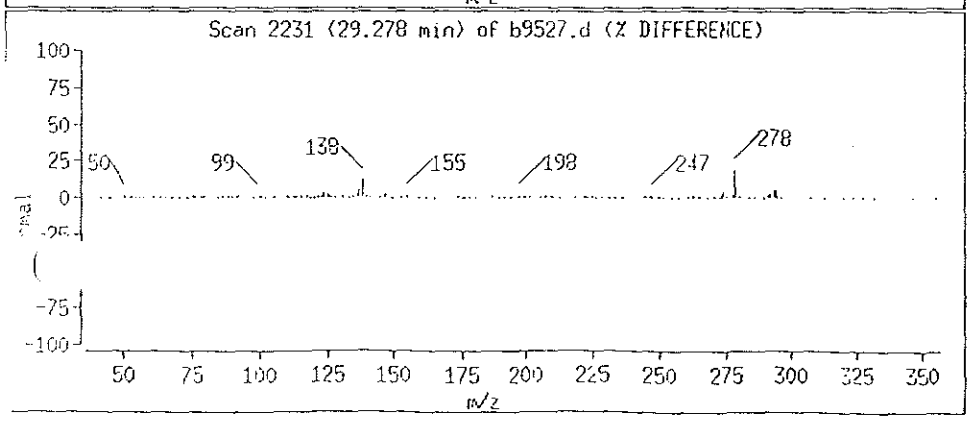












Data File: /chem/aux/msb.i/b011996.b/b9527.d

Date : 19-JAN-96 16:12

Client ID:

Instrument: msb.i

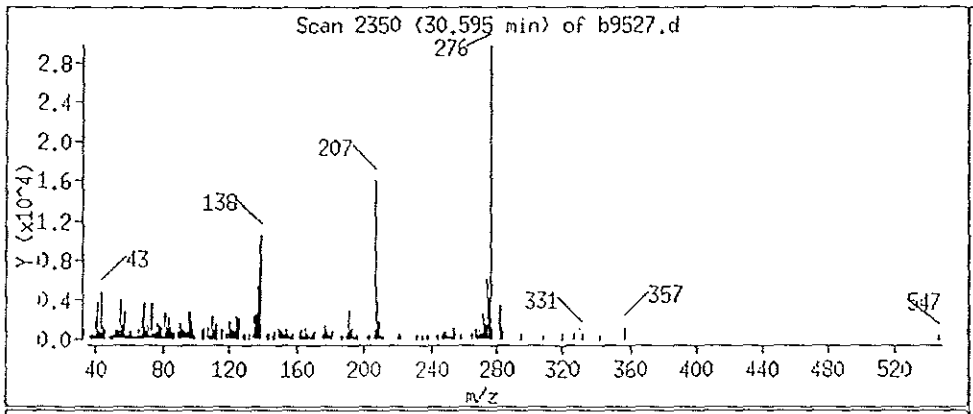
Sample Info: 17418n clj78cs003

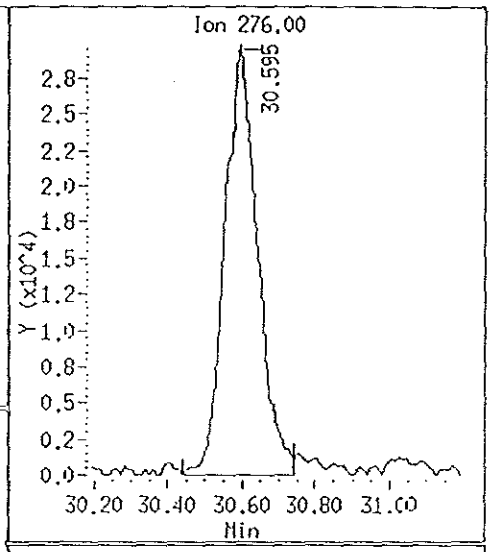
Operator: K. Bigelow

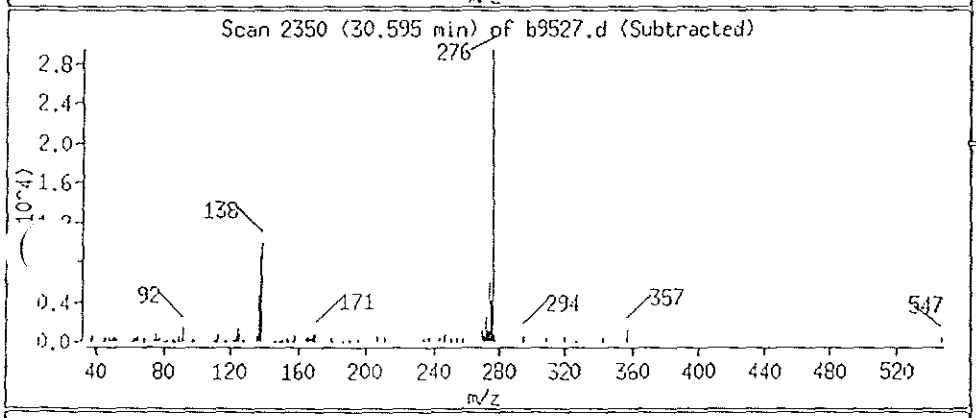
Column phase: J&W DB-5

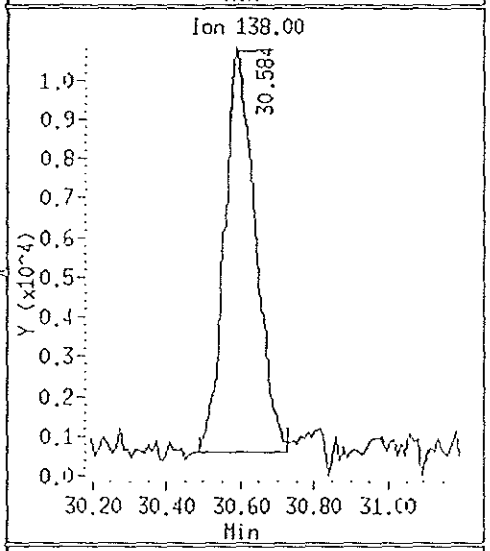
Column diameter: 0.25

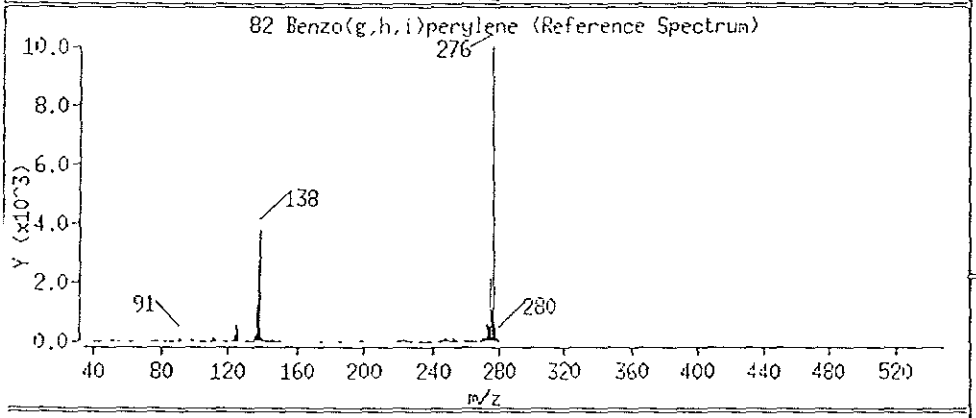
82 Benzo(g,h,i)perylene

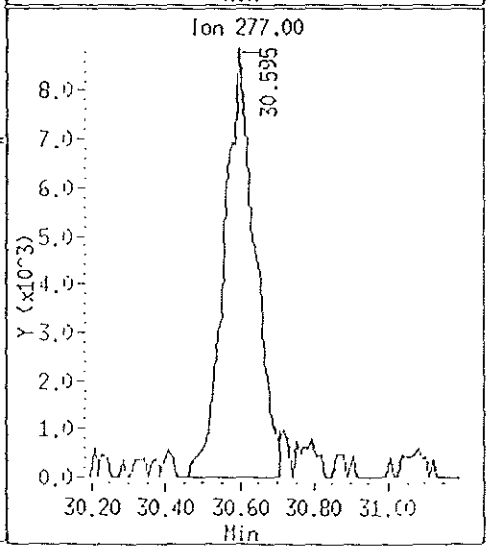


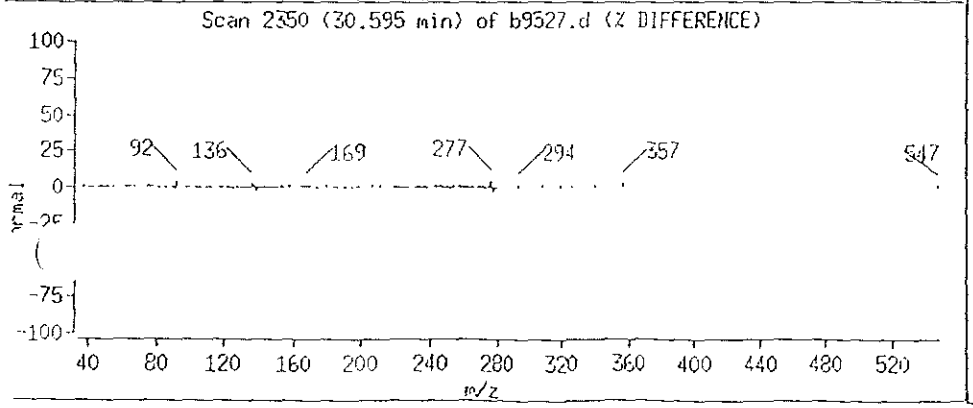












Data File: /chem/aux/msb.i/b011996.b/b9527.d

Date : 19-JAN-96 16:12

`lient ID:

Instrument: msb.i

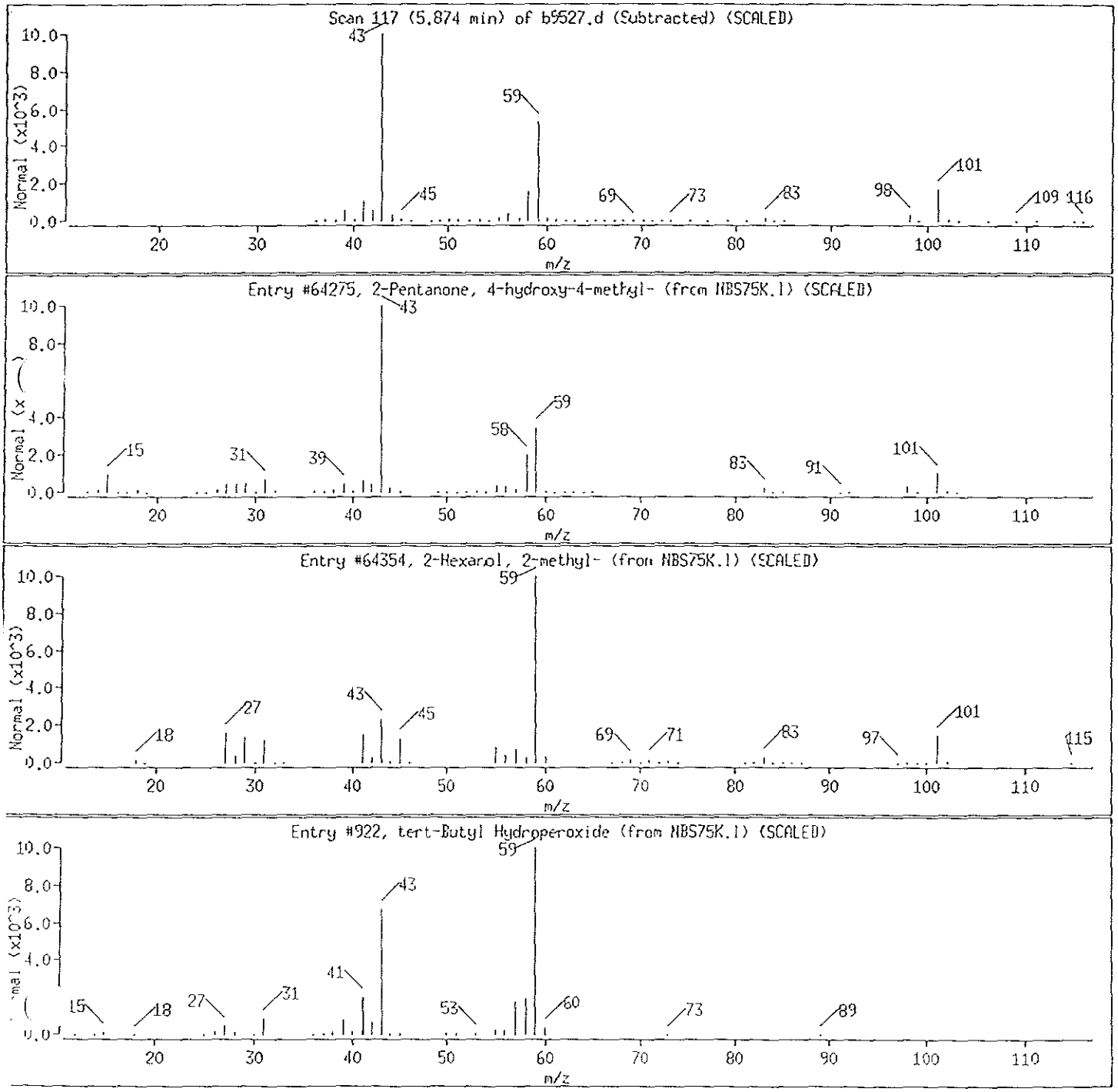
Sample Info: 17418n clj78cs003

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NBS75K.l	64275	64	C6H12O2	116
2-Hexanol, 2-methyl-	625-23-0	NBS75K.l	64354	33	C7H16O	116
tert-Butyl Hydroperoxide	75-91-2	NBS75K.l	922	28	C4H10O2	90



Data File: /chem/aux/msb.i/b011996.b/b9527.d

Date : 19-JAN-96 16:12

Client ID:

Instrument: msb.i

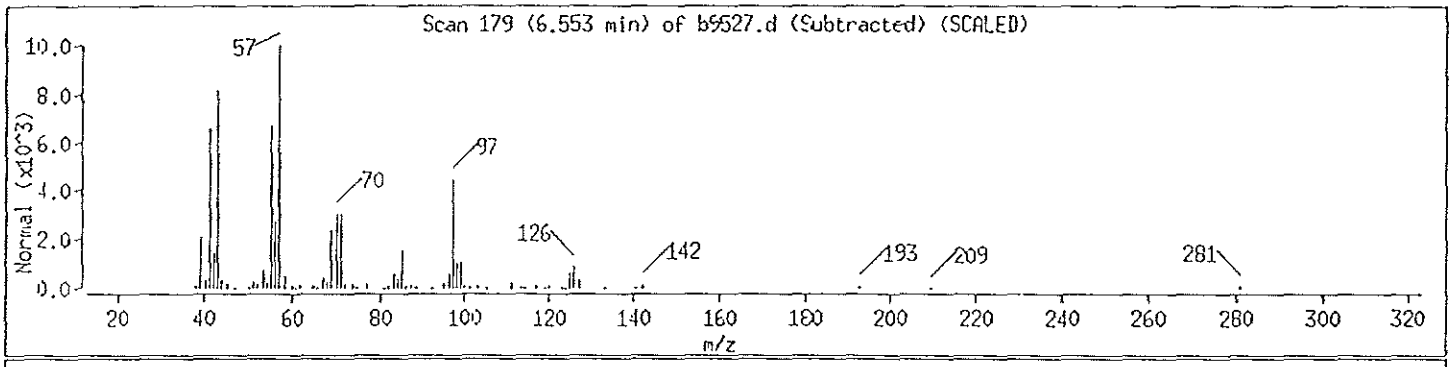
Sample Info: 17418n clj78cs003

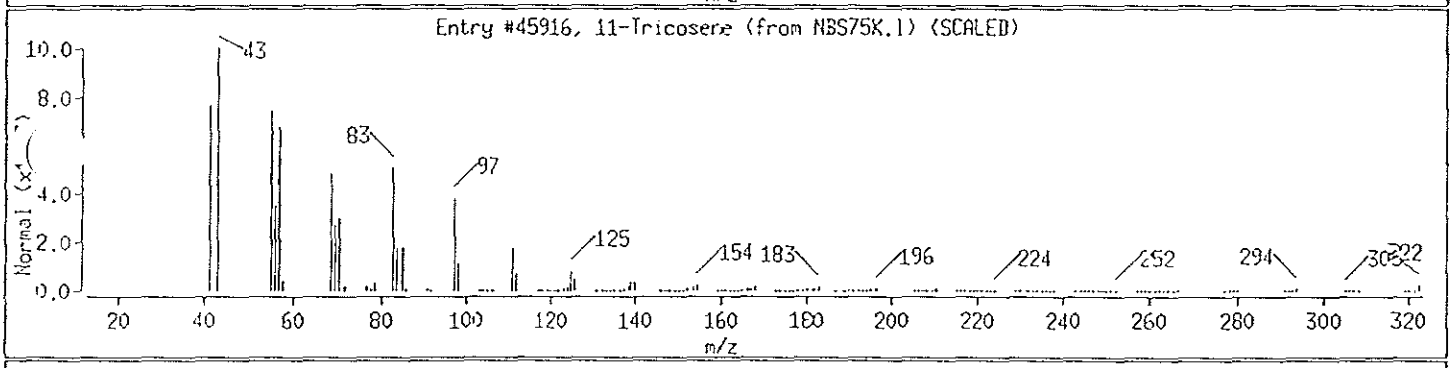
Operator: K. Bigelow

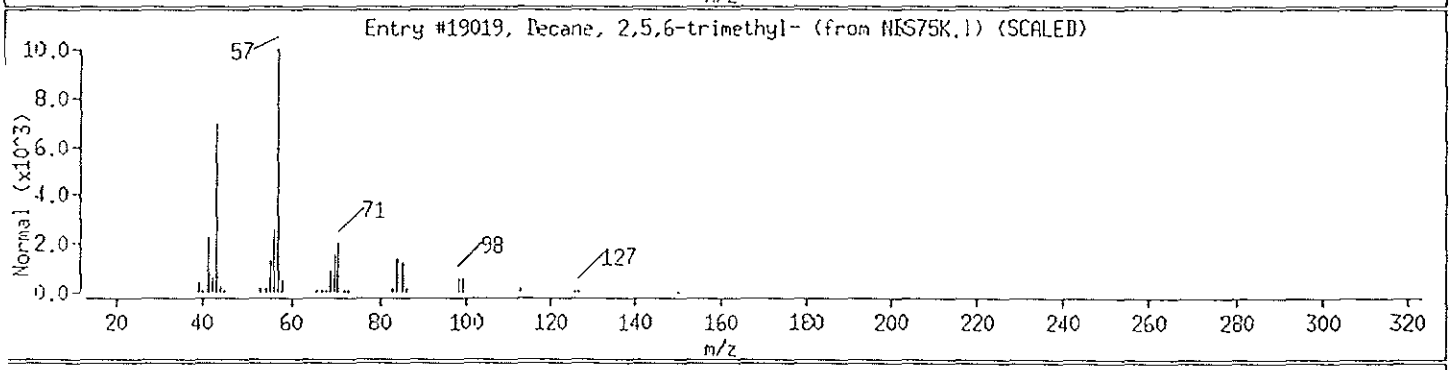
Column phase: J&W DB-5

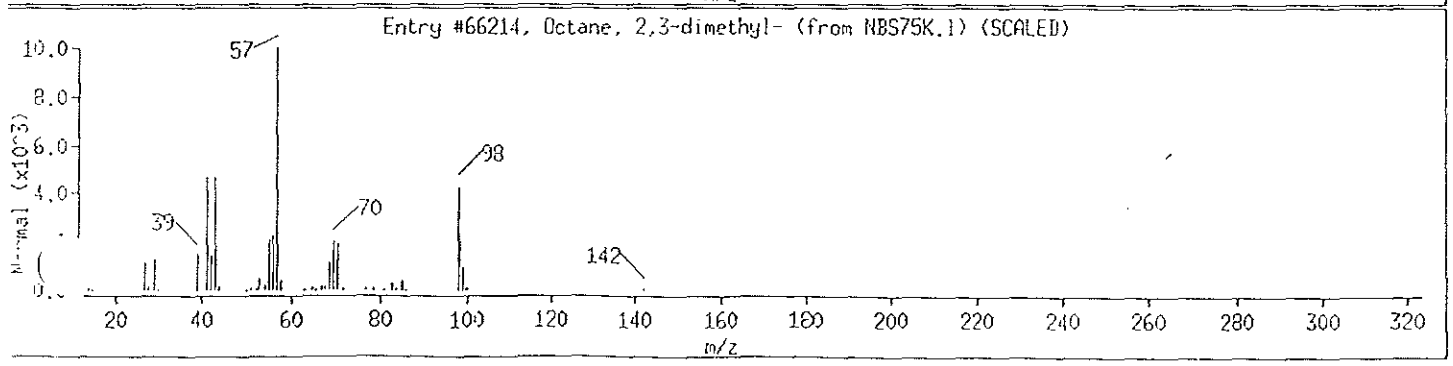
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
11-Tricosene	52078-56-5	NBS75K.l	45916	72	C23H46	322
Decane, 2,5,6-trimethyl-	62108-23-0	NBS75K.l	19019	47	C13H28	184
Octane, 2,3-dimethyl-	7146-60-3	NBS75K.l	66214	46	C10H22	142









Data File: /chem/aux/msb.i/b011996.b/b9527.d

Date : 19-JAN-96 16:12

Client ID:

Instrument: msb.i

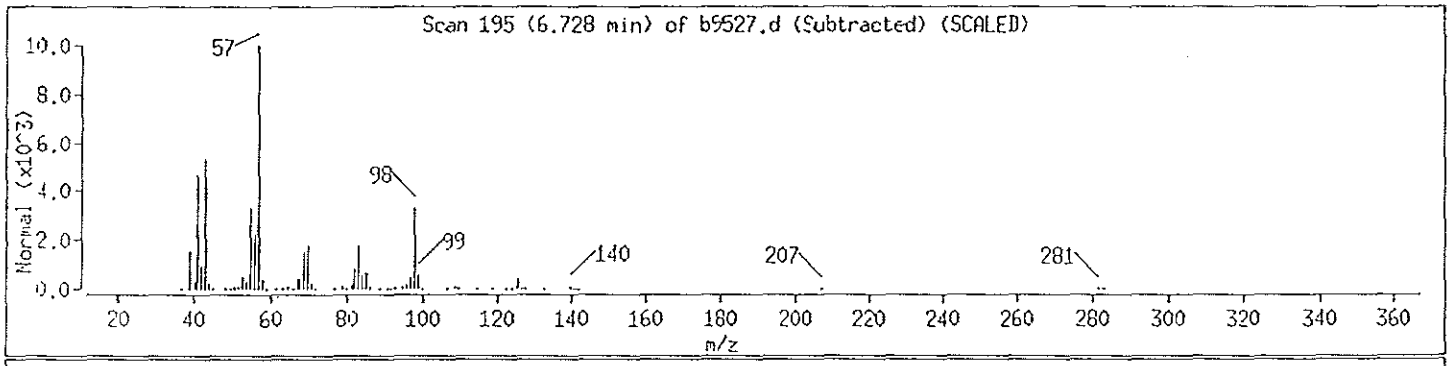
Sample Info: 17418n clj78cs003

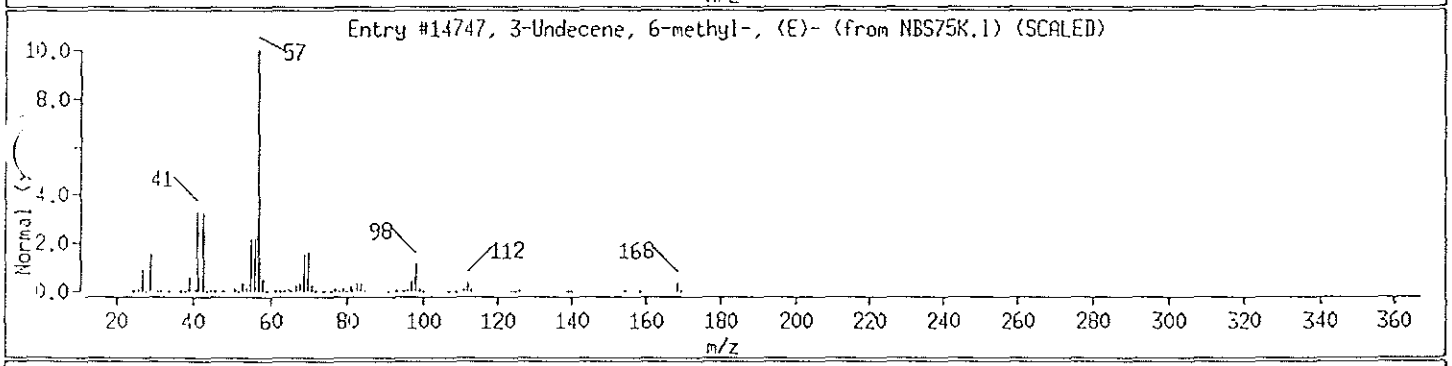
Operator: K. Bigelow

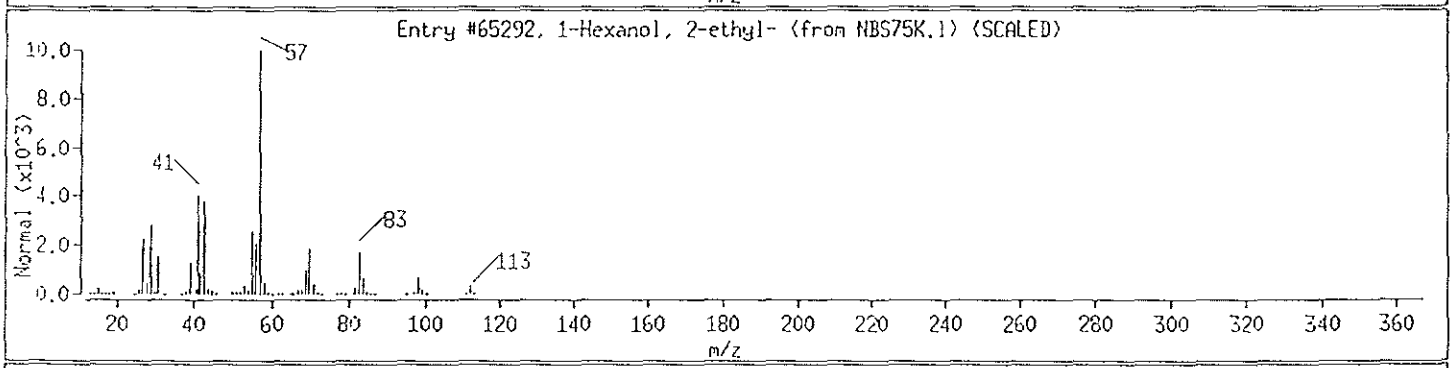
Column phase: J&W DB-5

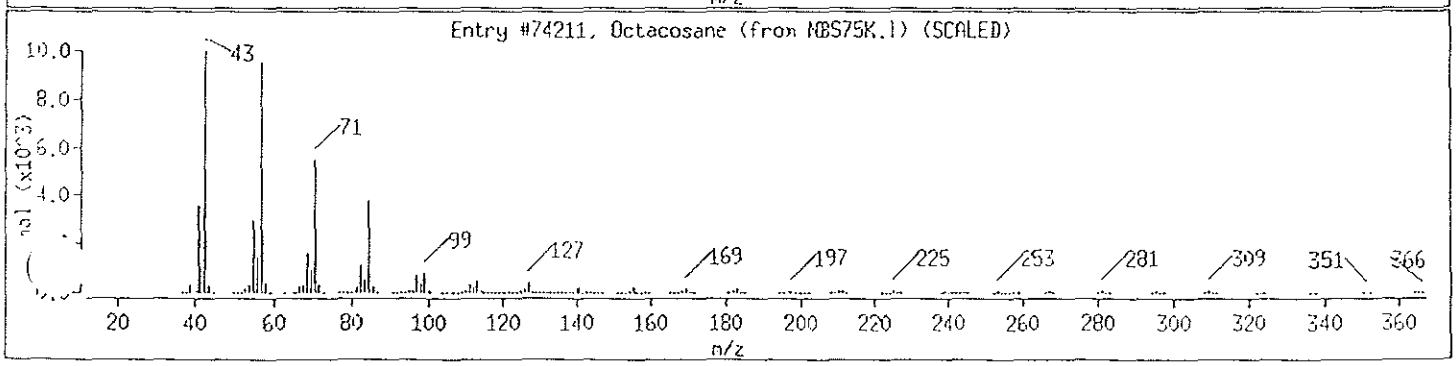
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
3-Undecene, 6-methyl-, (E)-	74630-52-7	NBS75K.l	14747	53	C12H24	168
1-Hexanol, 2-ethyl-	104-76-7	NBS75K.l	65292	53	C8H18O	130
Octacosane	630-02-4	NBS75K.l	74211	53	C28H58	394









Data File: /chem/aux/msb.i/b011996.b/b9527.d

Date : 19-JAN-96 16:12

Client ID:

Instrument: msb.i

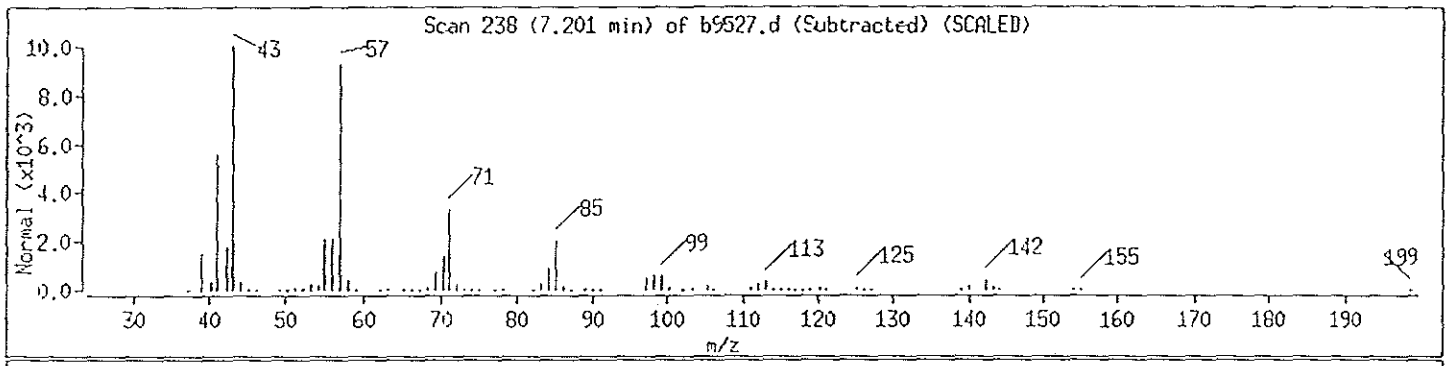
Sample Info: 17418n clj78cs003

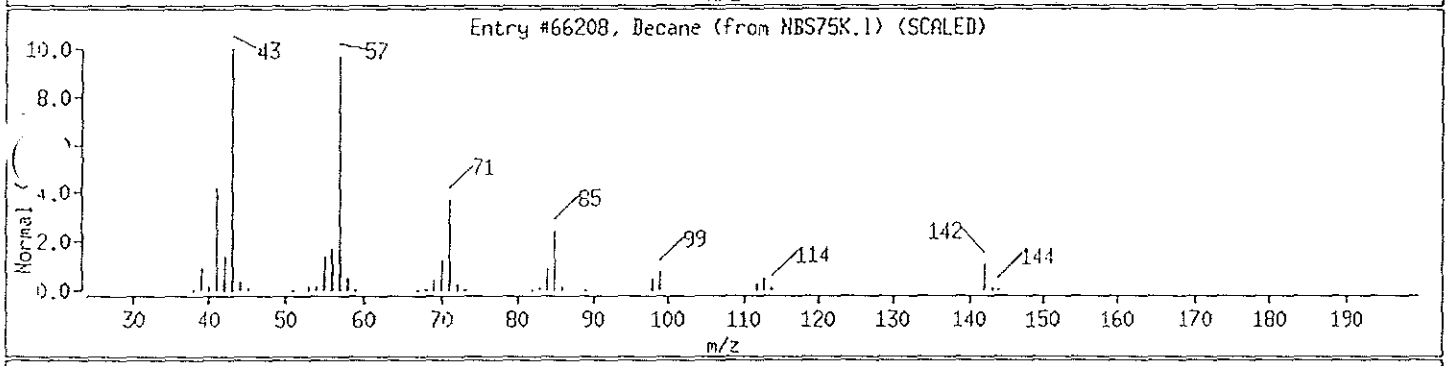
Operator: K. Bigelow

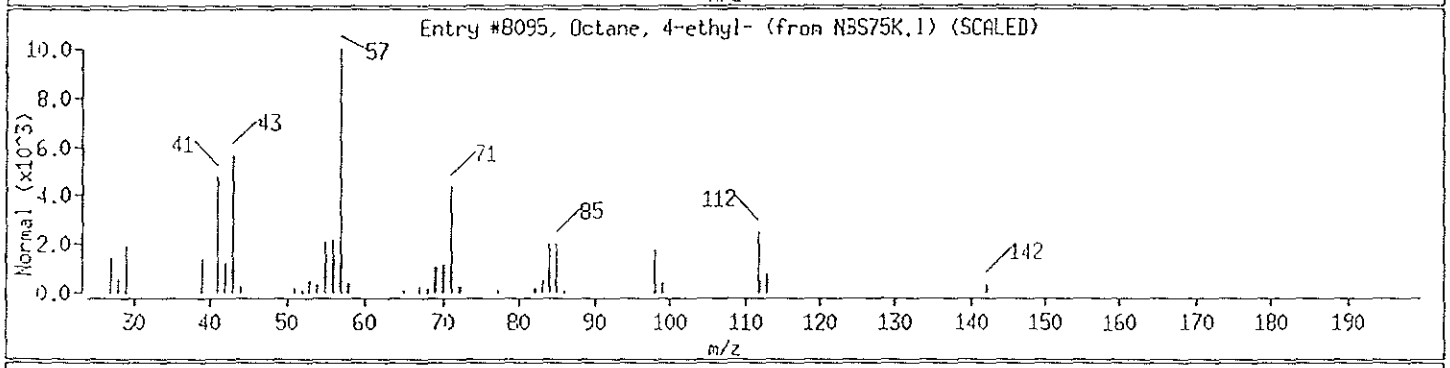
Column phase: J&W DB-5

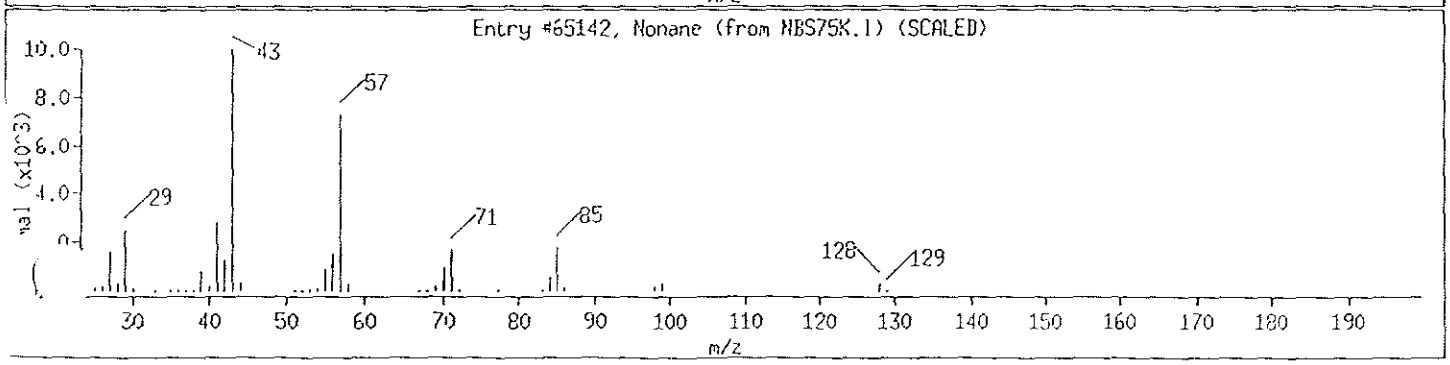
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decane	124-18-5	NBS75K.1	66208	96	C10H22	142
Octane, 4-ethyl-	15869-86-0	NBS75K.1	8095	81	C10H22	142
Nonane	111-84-2	NBS75K.1	65142	72	C9H20	128









Data File: /chem/aux/msb.i/b011996.b/b9527.d

Date : 19-JAN-96 16:12

Client ID:

Instrument: msb.i

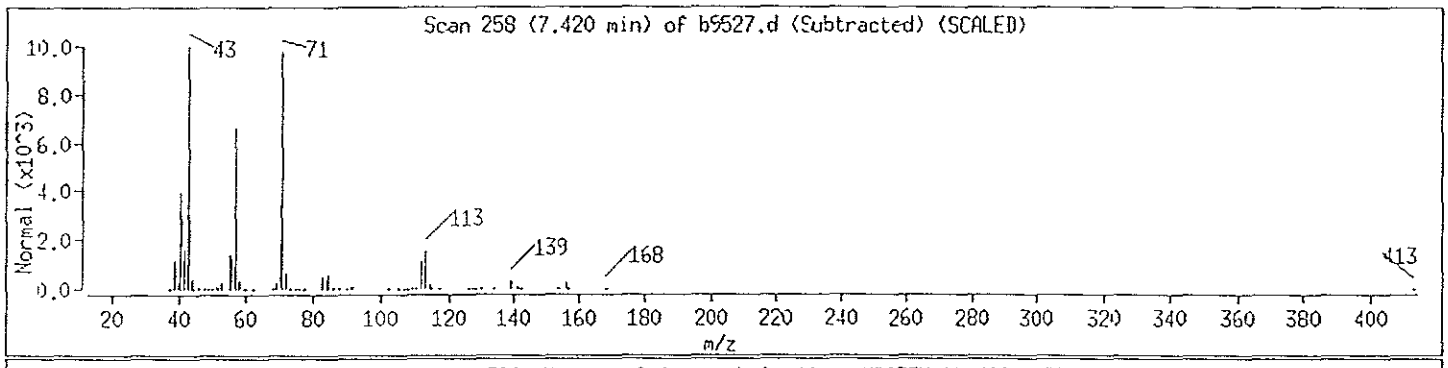
ample Info: 17418n clj78cs003

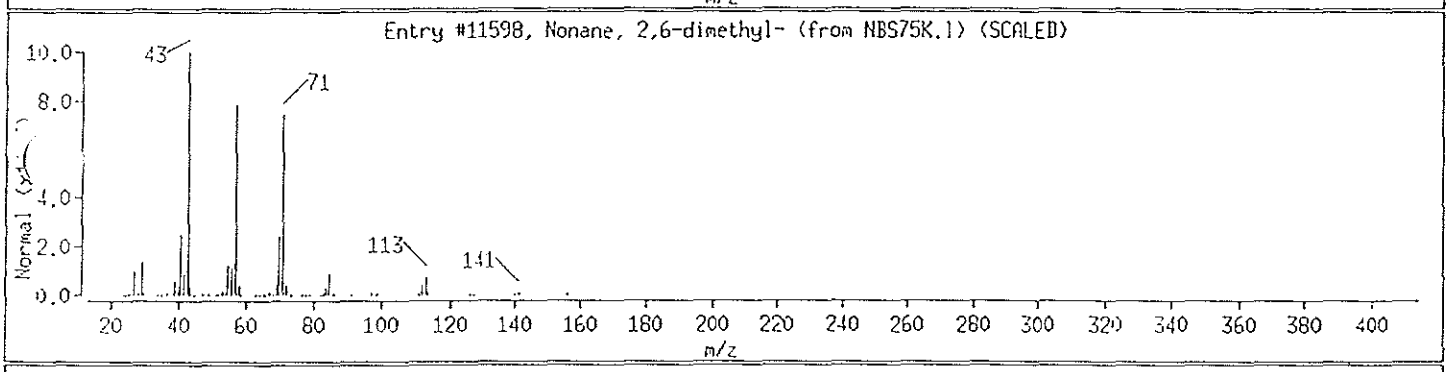
Operator: K. Bigelow

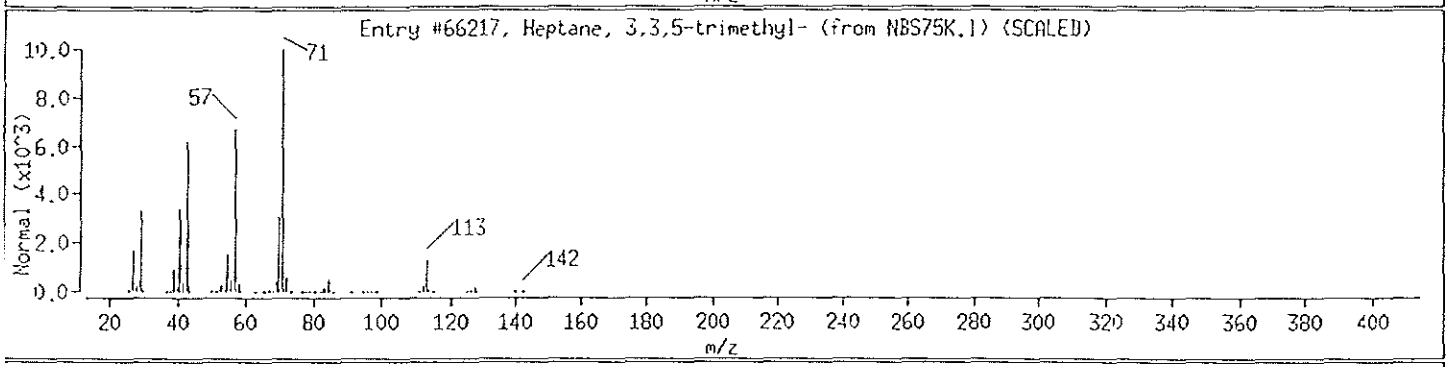
Column phase: J&W DB-5

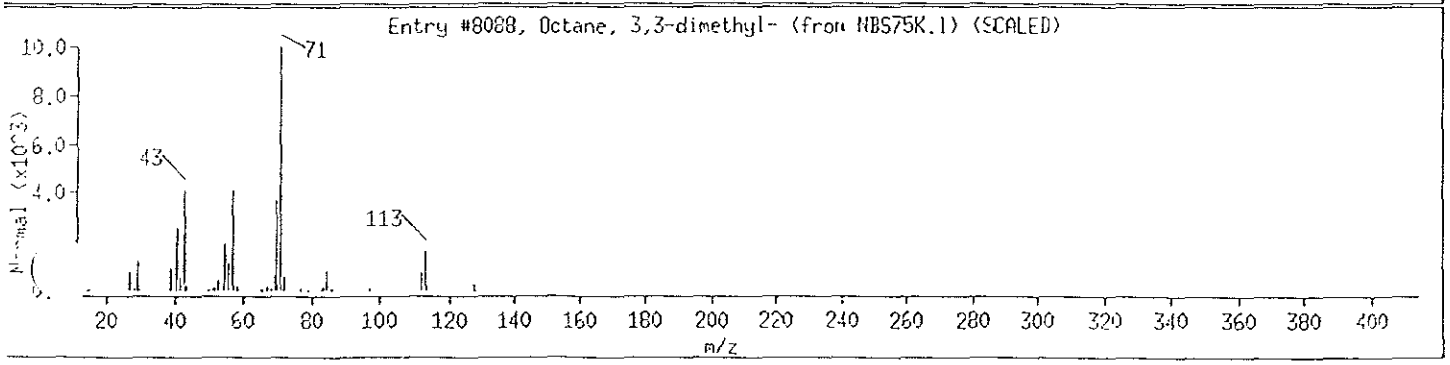
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonane, 2,6-dimethyl-	17302-28-2	NBS75K.l	11598	91	C11H24	156
Heptane, 3,3,5-trimethyl-	7154-80-5	NBS75K.l	66217	78	C10H22	142
Octane, 3,3-dimethyl-	4110-44-5	NBS75K.l	8088	78	C10H22	142









Data File: /chem/aux/msb.i/b011996.b/b9527.d

Date : 19-JAN-96 16:12

Client ID:

Instrument: msb.i

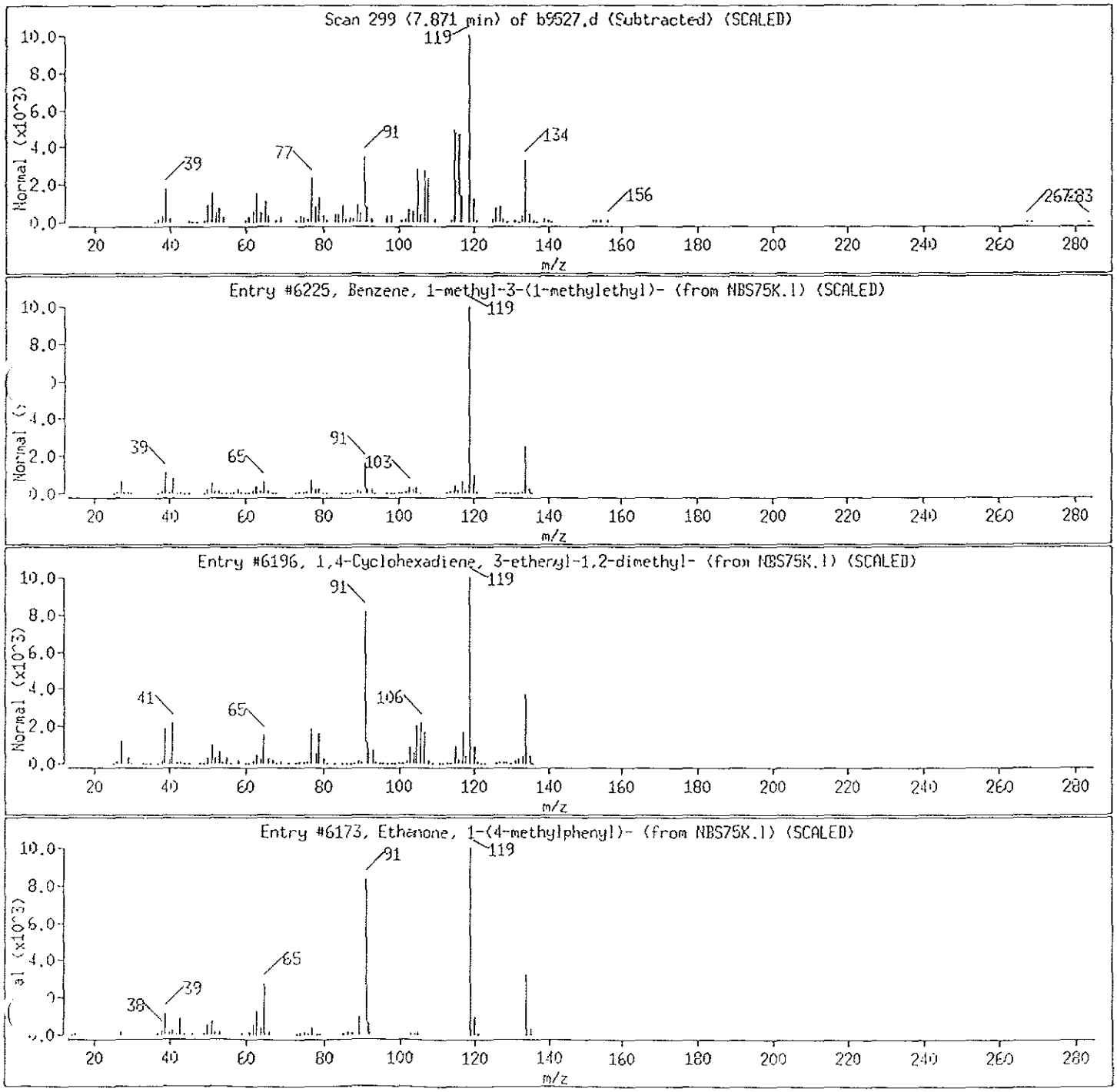
Sample Info: 17418n clj78cs003

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	NBS75K.1	6225	50	C10H14	134
1,4-Cyclohexadiene, 3-ethenyl-1,2-dimeth	62338-57-2	NBS75K.1	6196	50	C10H14	134
Ethanone, 1-(4-methylphenyl)-	122-00-9	NBS75K.1	6173	46	C9H10O	134



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Date : 19-JAN-96 16:12

Client ID:

Instrument: msb.i

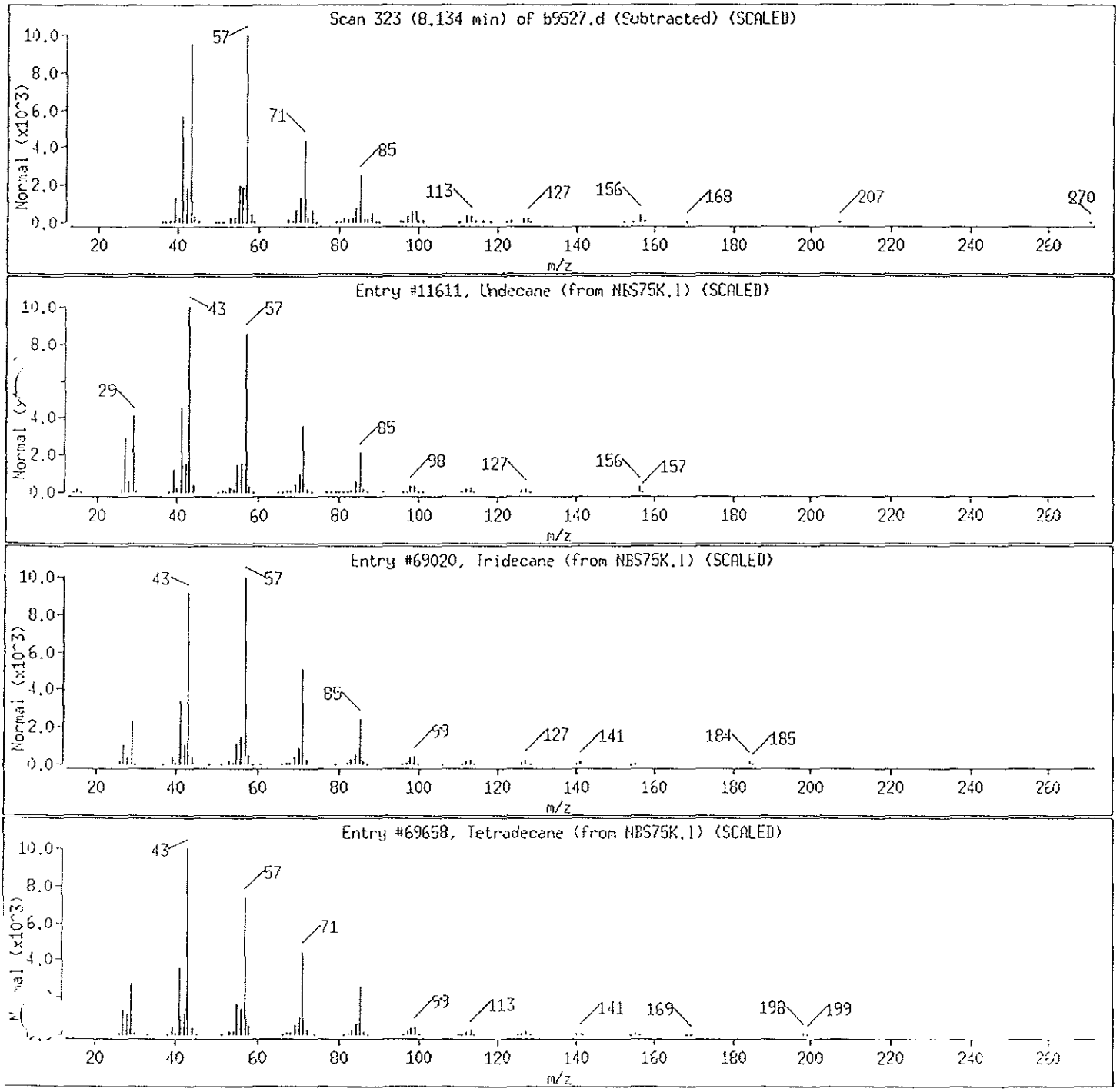
Sample Info: 17418n clj78cs003

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Undecane	1120-21-4	NBS75K.l	11611	95	C11H24	156
Tridecane	629-50-5	NBS75K.l	69020	80	C13H28	184
Tetradecane	629-59-4	NBS75K.l	69658	80	C14H30	198



Data File: /chem/aux/msb.i/b011996.b/b9527.d

Date : 19-JAN-96 16:12

'ient ID:

Instrument: msb.i

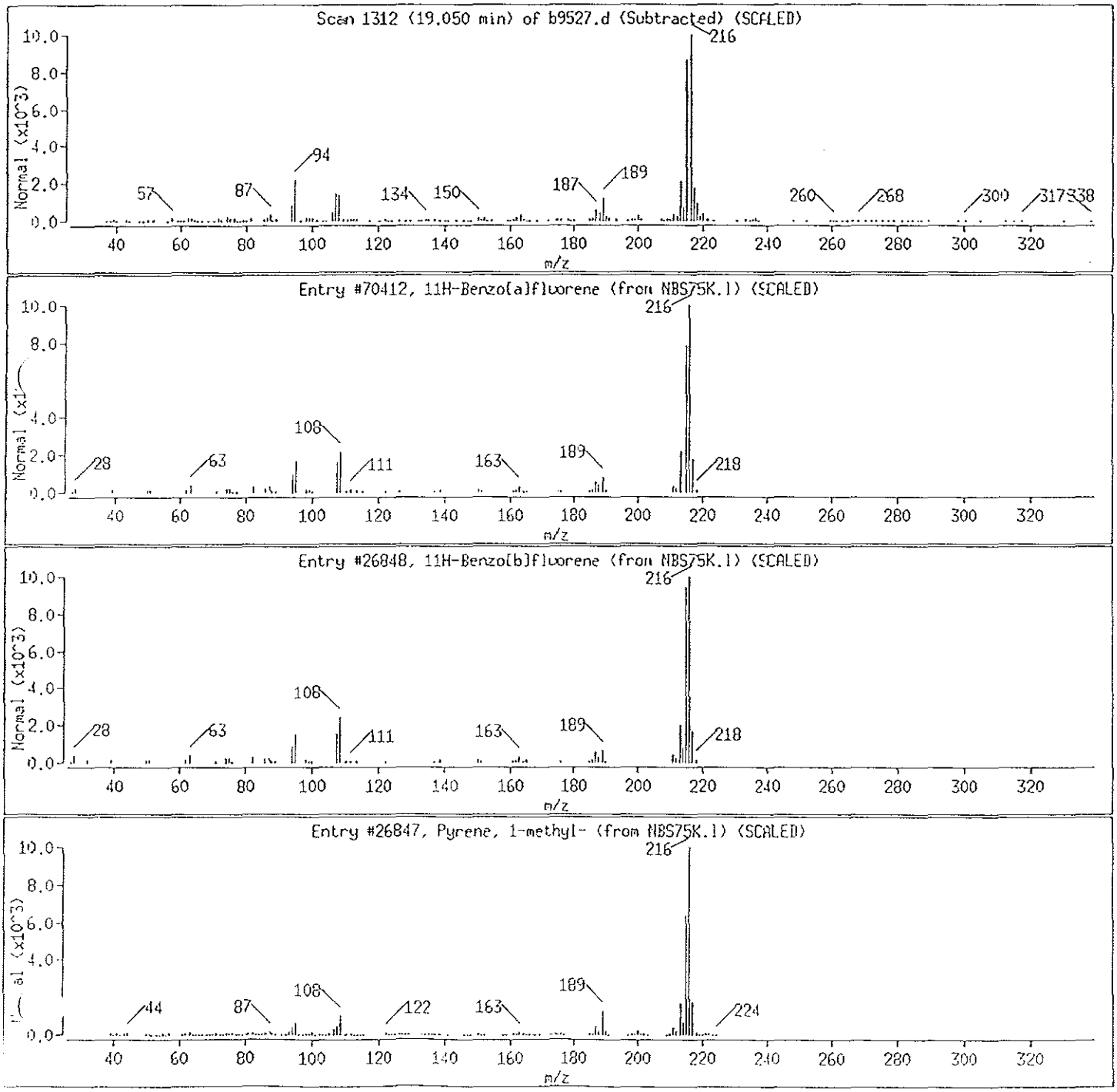
Sample Info: 17418n clj78cs003

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
11H-Benzo[a]fluorene	238-84-6	NBS75K.l	70412	93	C17H12	216
11H-Benzo[b]fluorene	243-17-4	NBS75K.l	26848	93	C17H12	216
Pyrene, 1-methyl-	2381-21-7	NBS75K.l	26847	91	C17H12	216



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Date : 19-JAN-96 16:12

Client ID:

Instrument: msb.i

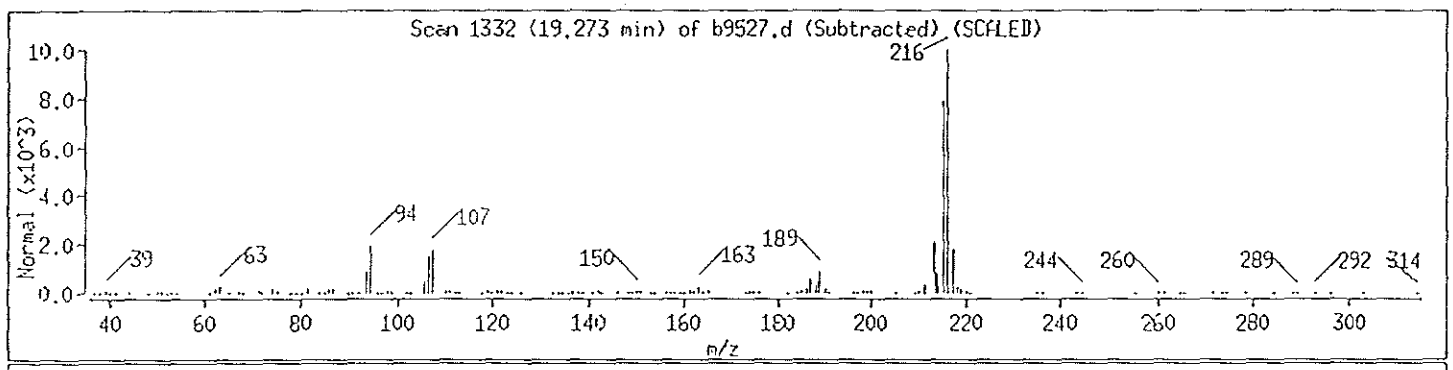
Sample Info: 17418n clj78cs003

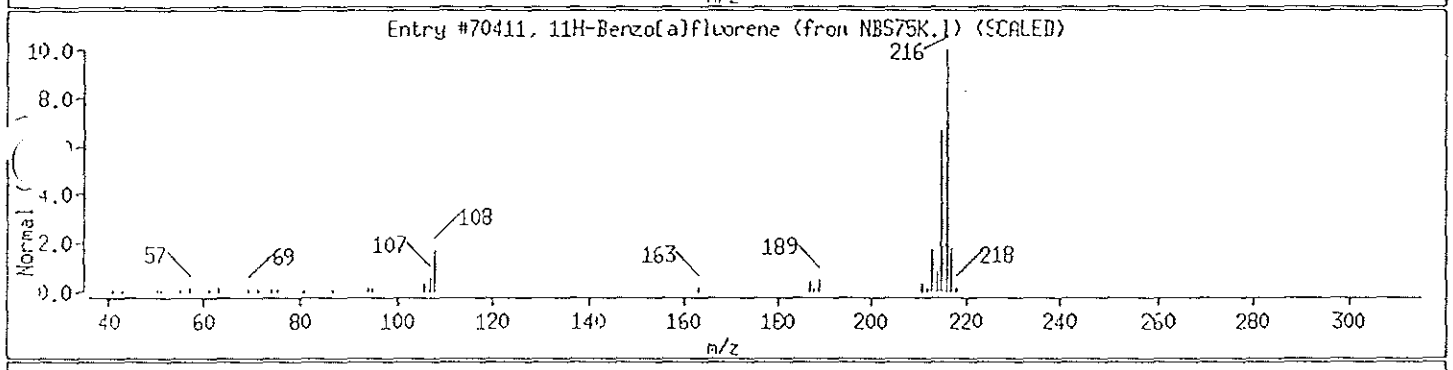
Operator: K. Bigelow

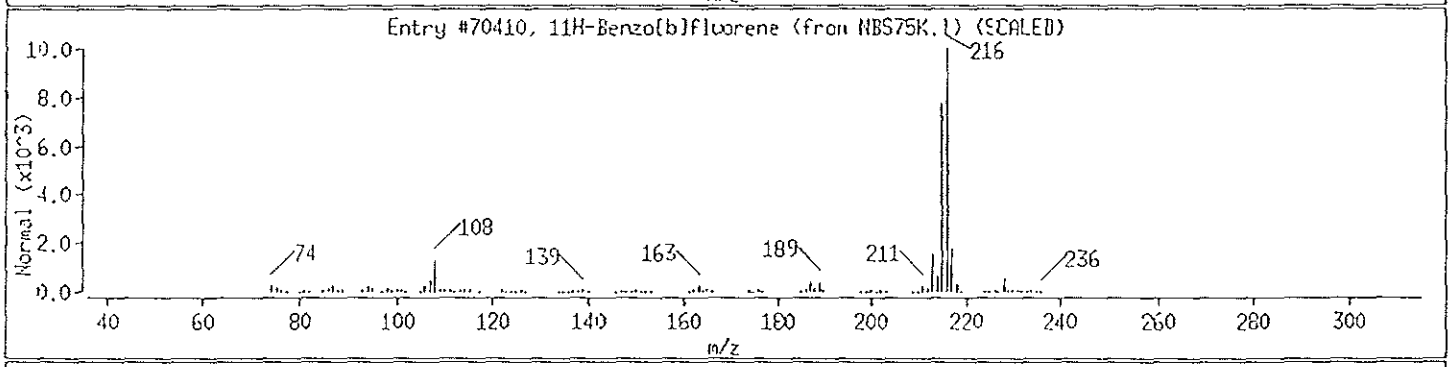
Column phase: J&W DB-5

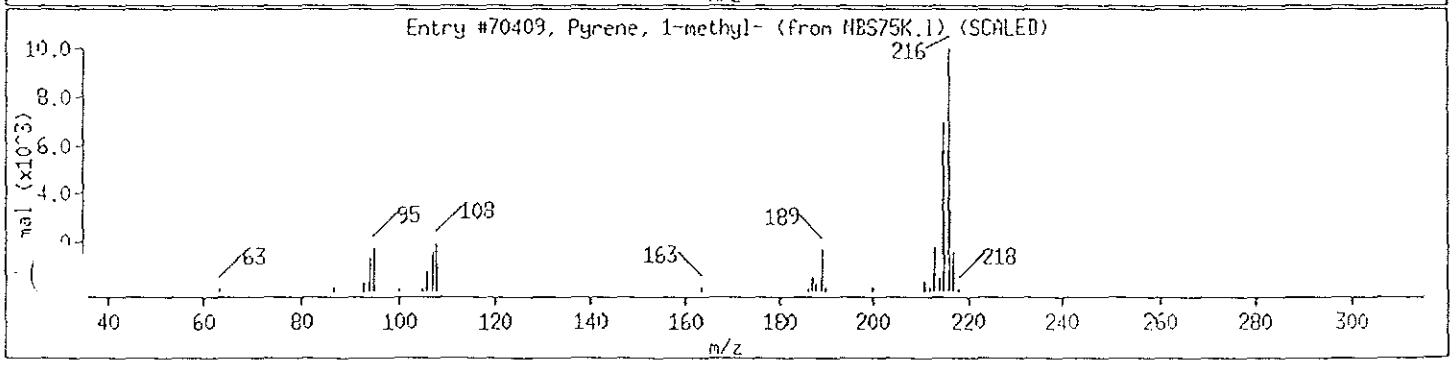
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
11H-Benzo[a]fluorene	238-84-6	NBS75K.l	70411	93	C17H12	216
11H-Benzo[b]fluorene	243-17-4	NBS75K.l	70410	87	C17H12	216
Pyrene, 1-methyl-	2381-21-7	NBS75K.l	70409	76	C17H12	216









Data File: /chem/aux/msb.i/b011996.b/b9527.d

Date : 19-JAN-96 16:12

Client ID:

Instrument: msb.i

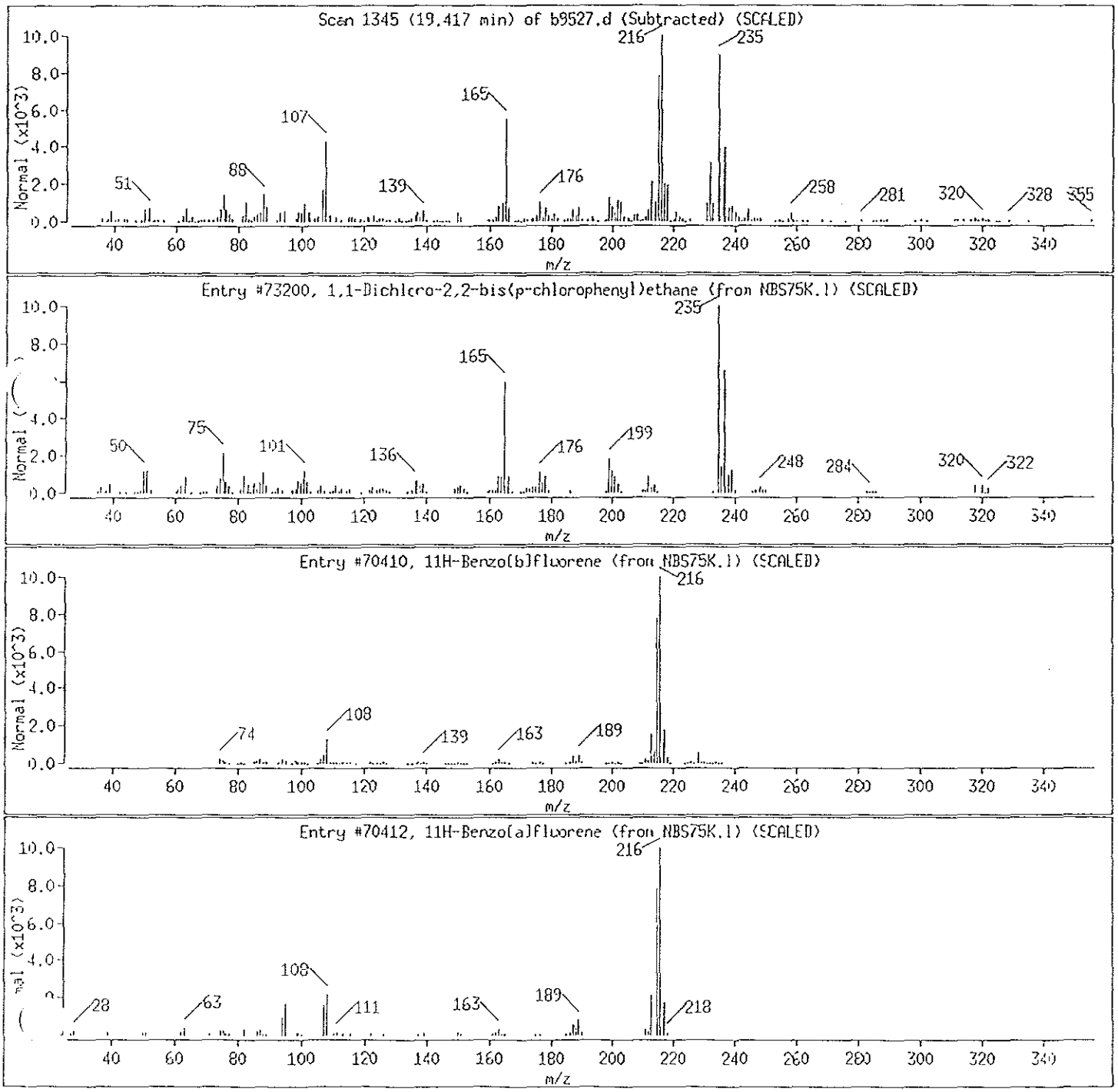
Sample Info: 17418n clj78cs003

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,1-Dichloro-2,2-bis(p-chlorophenyl)etha	72-54-8	NBS75K.l	73200	90	C14H10Cl4	318
11H-Benzo[b]fluorene	243-17-4	NBS75K.l	70410	42	C17H12	216
11H-Benzo[a]fluorene	238-84-6	NBS75K.l	70412	38	C17H12	216



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Date : 19-JAN-96 16:12

Client ID:

Instrument: msb.i

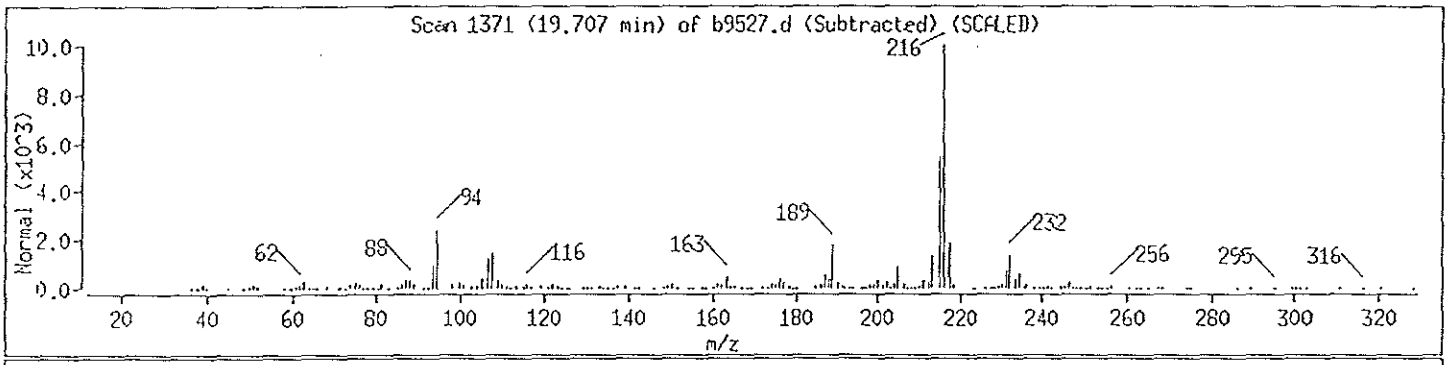
Sample Info: 17418n clj78cs003

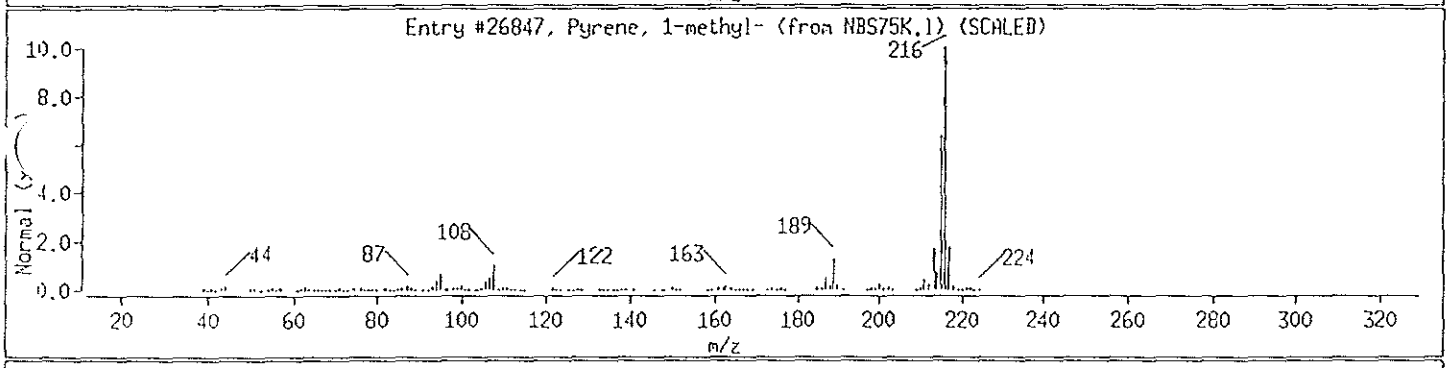
Operator: K. Bigelow

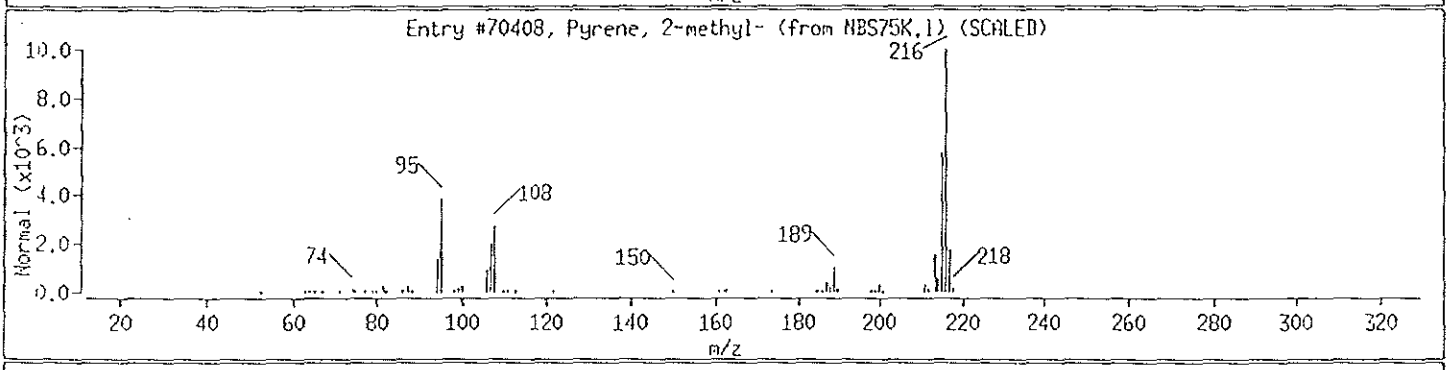
Column phase: J&W DB-5

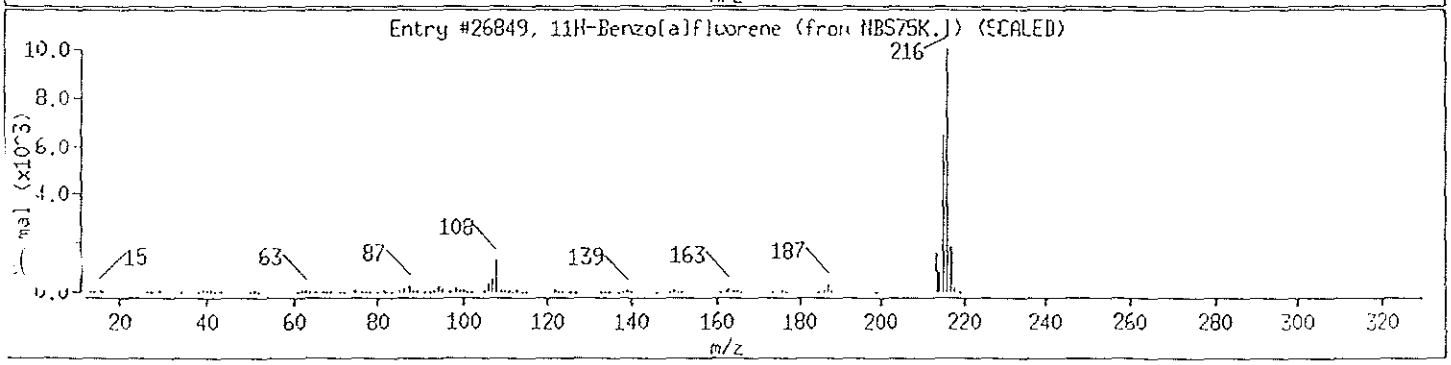
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Pyrene, 1-methyl-	2381-21-7	NBS75K.l	26847	95	C17H12	216
Pyrene, 2-methyl-	3442-78-2	NBS75K.l	70408	95	C17H12	216
11H-Benzo[a]fluorene	238-84-6	NBS75K.l	26849	92	C17H12	216









Data File: /chem/aux/msb.i/b011996.b/b9527.d

Date : 19-JAN-96 16:12

Client ID:

Instrument: msb.i

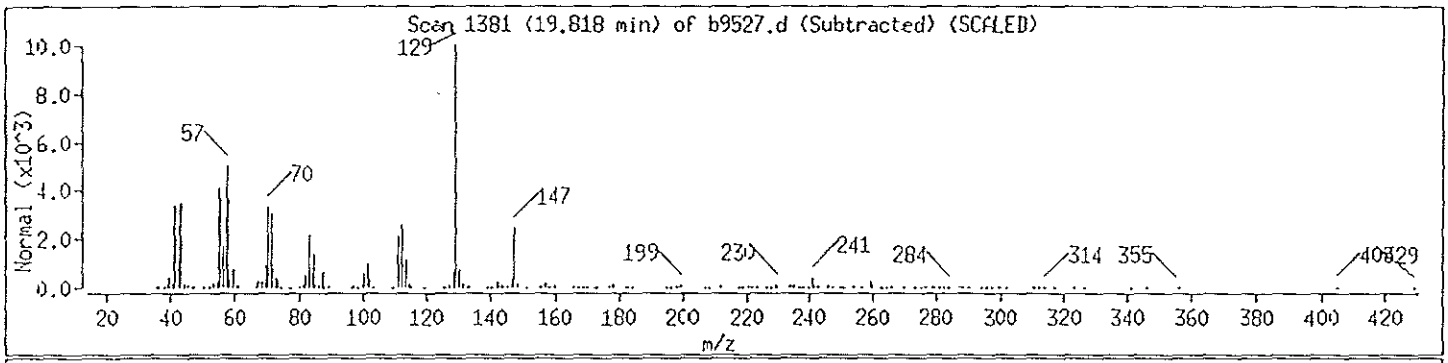
Sample Info: 17418n clj78cs003

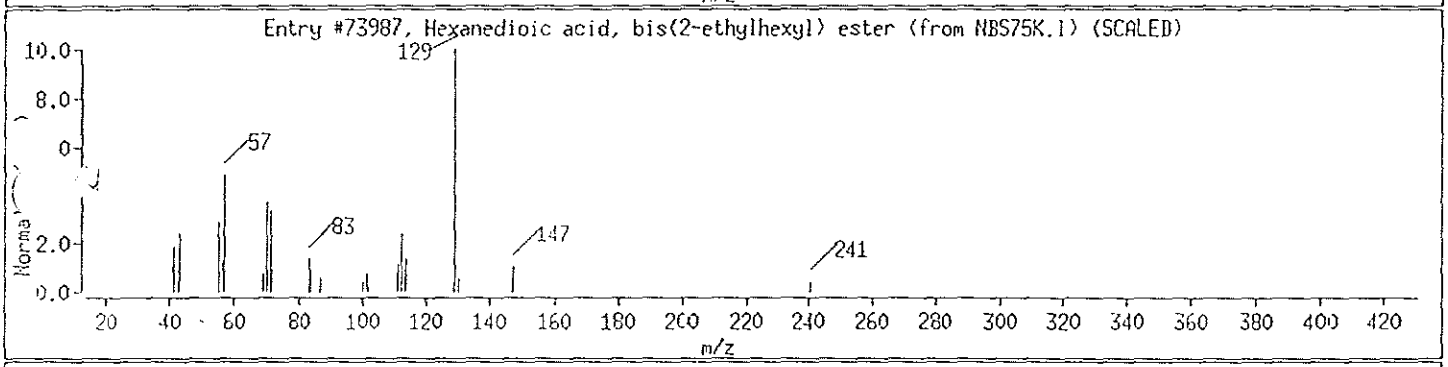
Operator: K. Bigelow

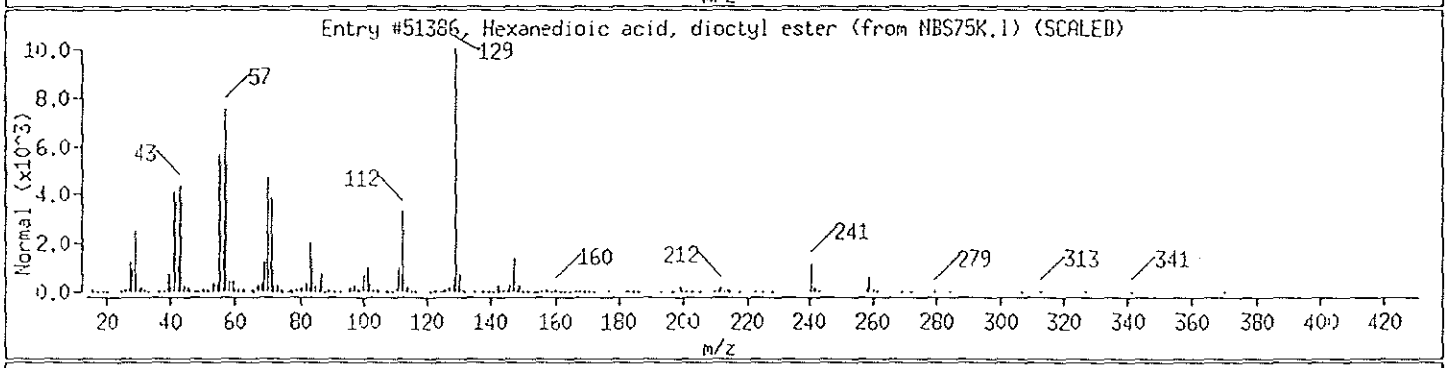
Column phase: J&W DB-5

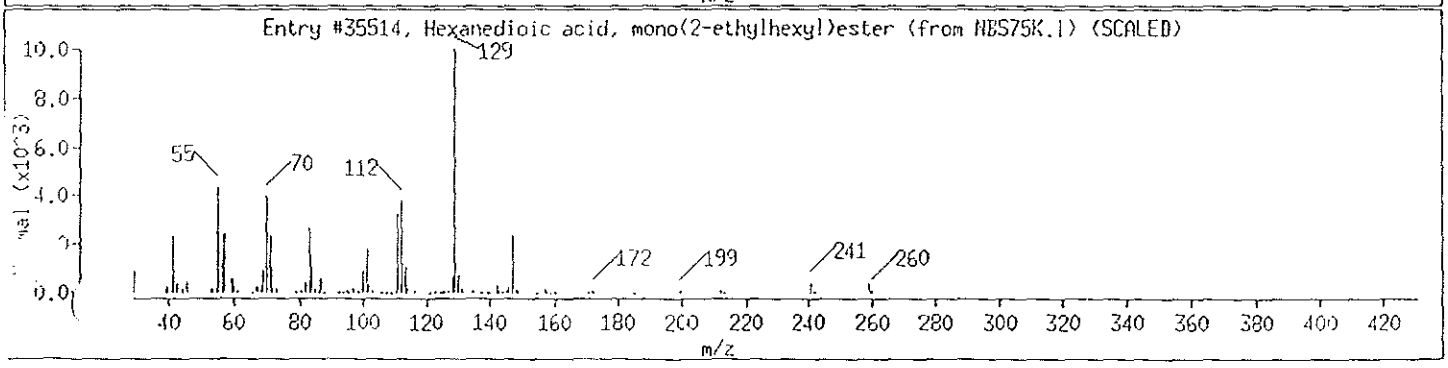
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Hexanedioic acid, bis(2-ethylhexyl) este	103-23-1	NBS75K.l	73987	74	C22H4204	370
Hexanedioic acid, dioctyl ester	123-79-5	NBS75K.l	51386	64	C22H4204	370
Hexanedioic acid, mono(2-ethylhexyl)este	4337-65-9	NBS75K.l	35514	58	C14H2604	258









Data File: /chem/aux/msb.i/b011996.b/b9527.d

Date : 19-JAN-96 16:12

Client ID:

Instrument: msb.i

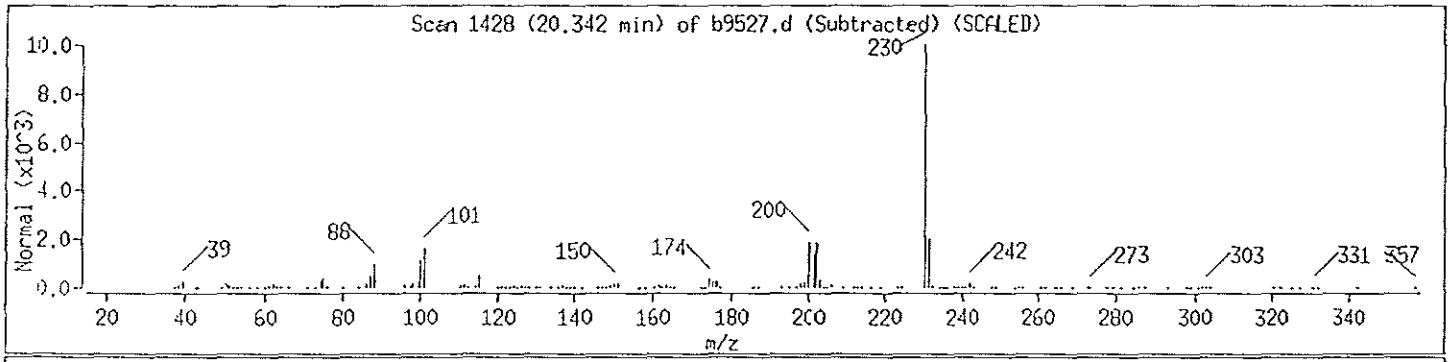
ample Info: 17418n clj78cs003

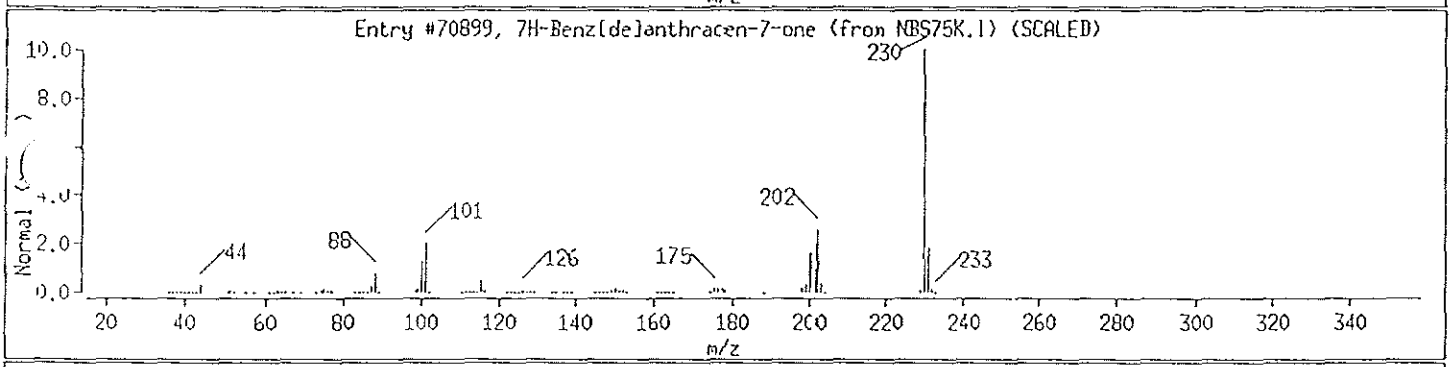
Operator: K. Bigelow

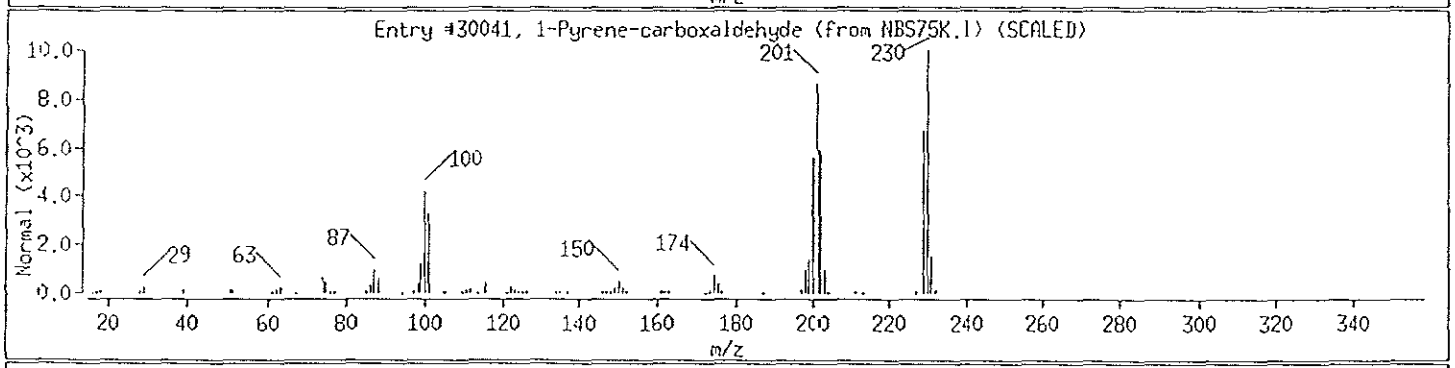
Column phase: J&W DB-5

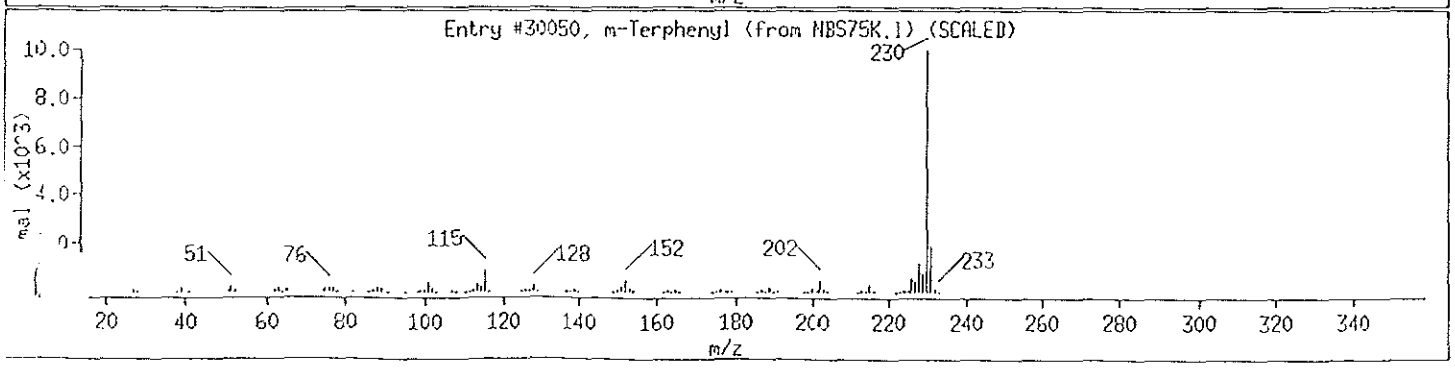
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
7H-Benz[de]anthracen-7-one	82-05-3	NBS75K.l	70899	94	C17H100	230
1-Pyrene-carboxaldehyde	3029-19-4	NBS75K.l	30041	56	C17H100	230
m-Terphenyl	92-06-8	NBS75K.l	30050	53	C18H14	230









Data File: /chem/aux/msb.i/b011996.b/b9527.d

Date : 19-JAN-96 16:12

Client ID:

Instrument: msb.i

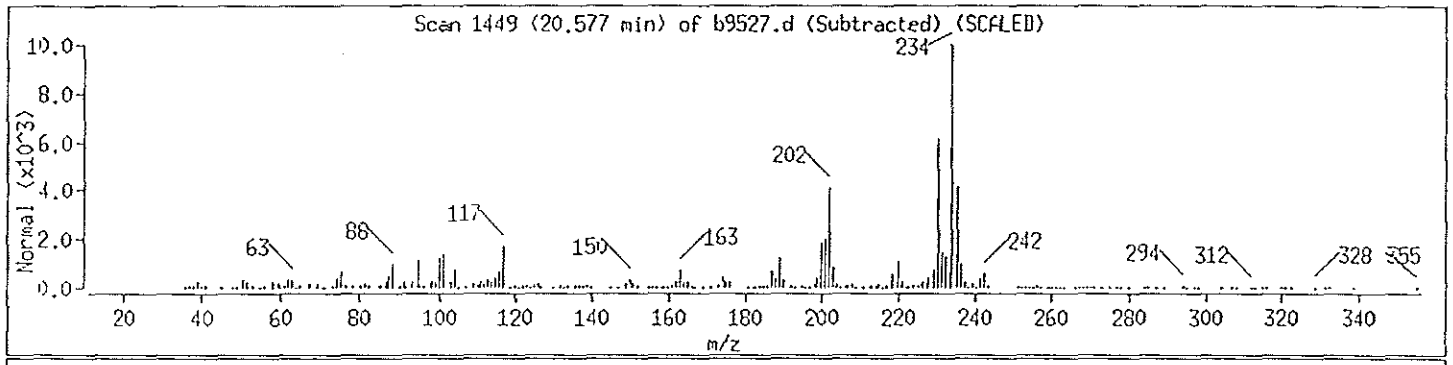
Sample Info: 17418n clj78cs003

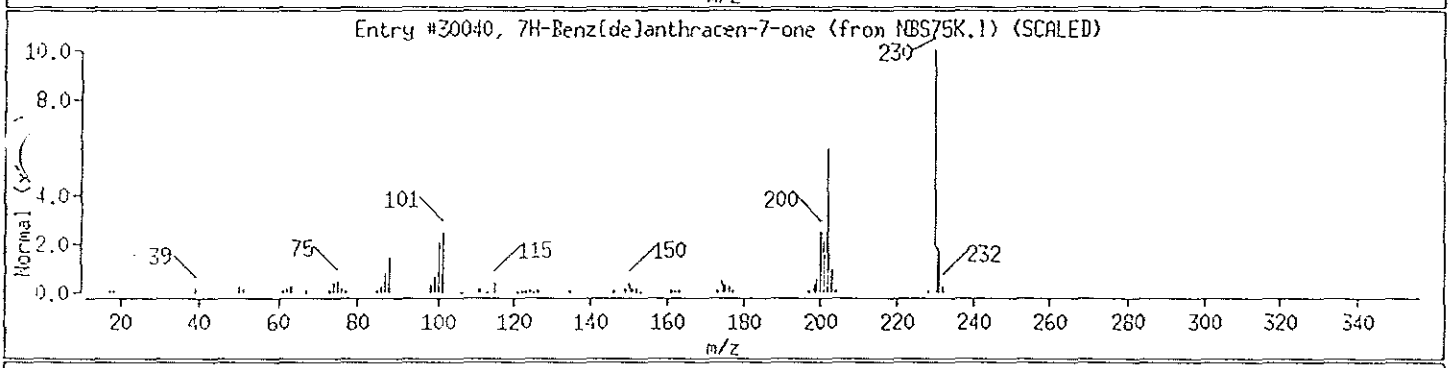
Operator: K. Bigelow

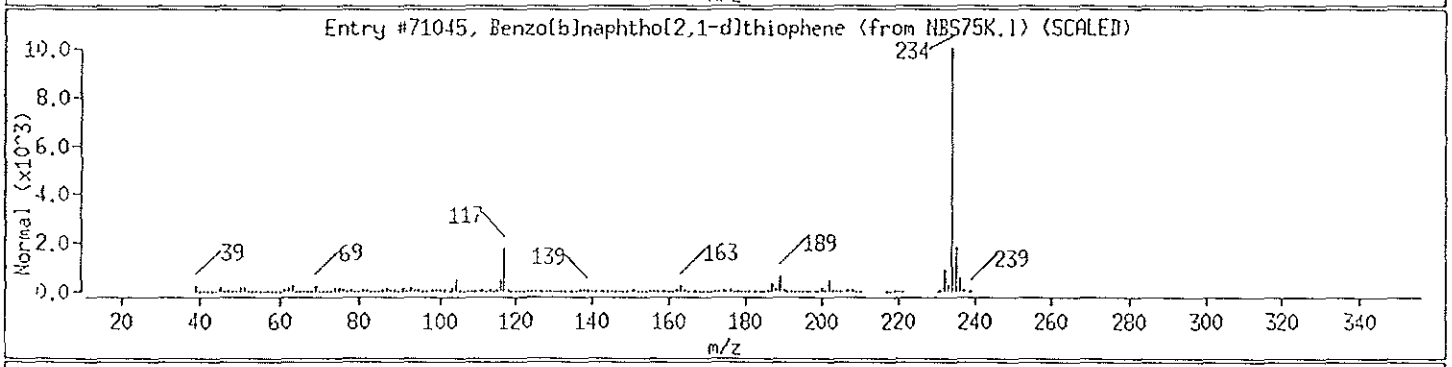
Column phase: J&W DB-5

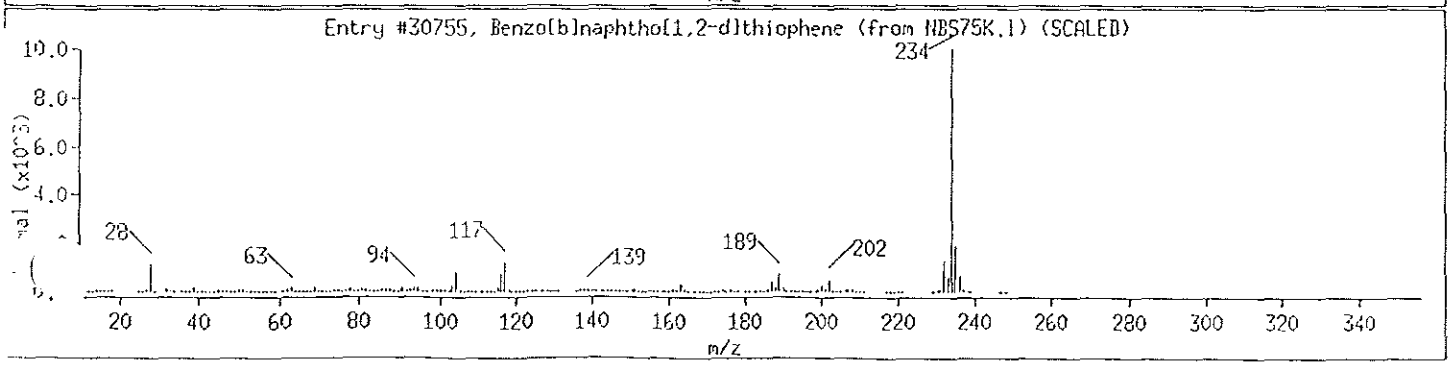
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
7H-Benz[de]anthracen-7-one	82-05-3	NBS75K.l	30040	60	C17H10O	230
Benzo[b]naphtho[2,1-d]thiophene	239-35-0	NBS75K.l	71045	46	C16H10S	234
Benzo[b]naphtho[1,2-d]thiophene	205-43-6	NBS75K.l	30755	42	C16H10S	234









Data File: /chem/aux/msb.i/b011996.b/b9527.d

Date : 19-JAN-96 16:12

Client ID:

Instrument: msb.i

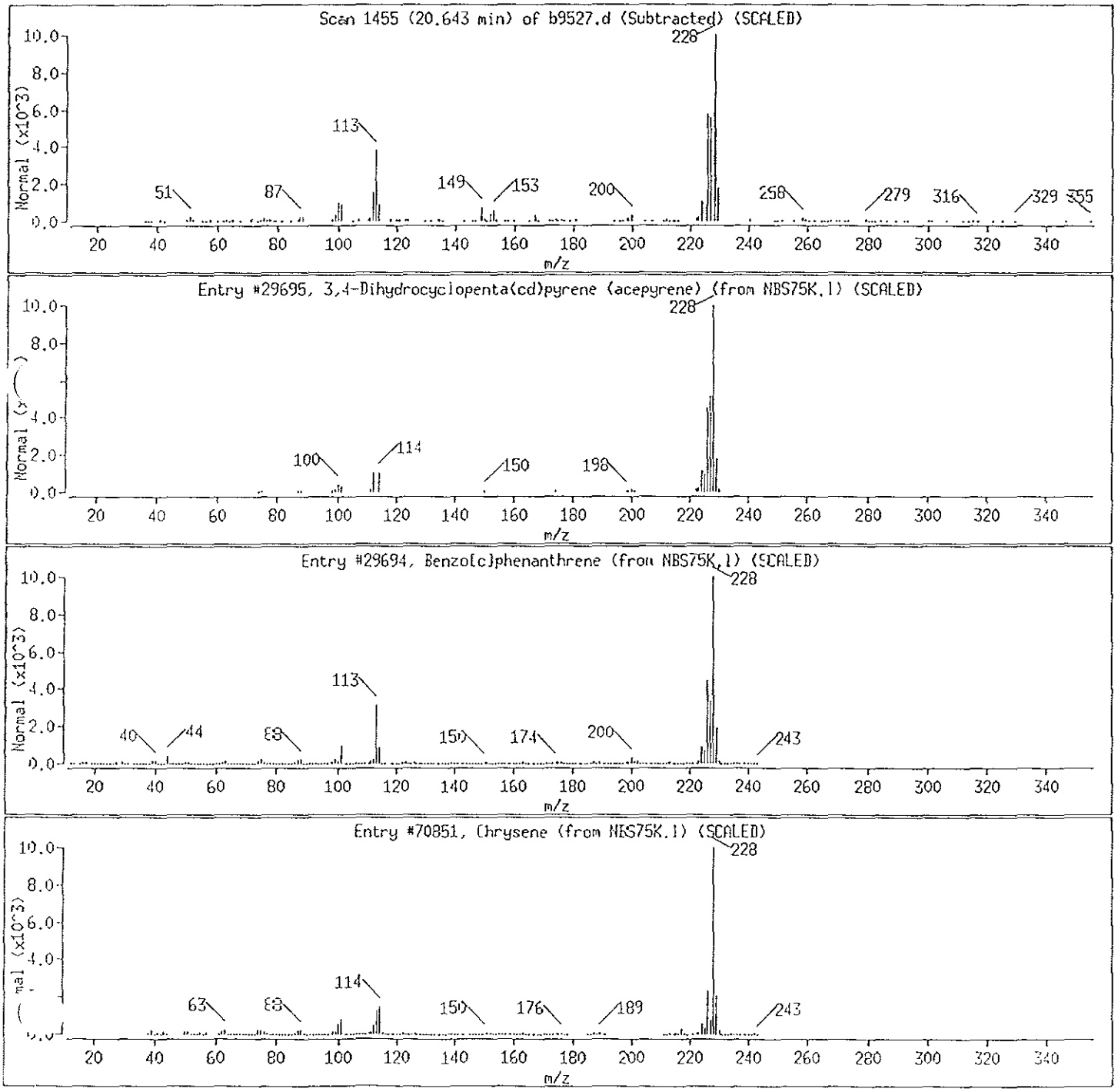
Sample Info: 17418n clj78cs003

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
3,4-Dihydrocyclopenta(cd)pyrene (acepyre	25732-74-5	NBS75K.l	29695	91	C18H12	228
Benzo[c]phenanthrene	195-19-7	NBS75K.l	29694	53	C18H12	228
Chrysene	218-01-9	NBS75K.l	70851	47	C18H12	228



Data File: /chem/aux/msb.i/b011996.b/b9527.d

Date : 19-JAN-96 16:12

Client ID:

Instrument: msb.i

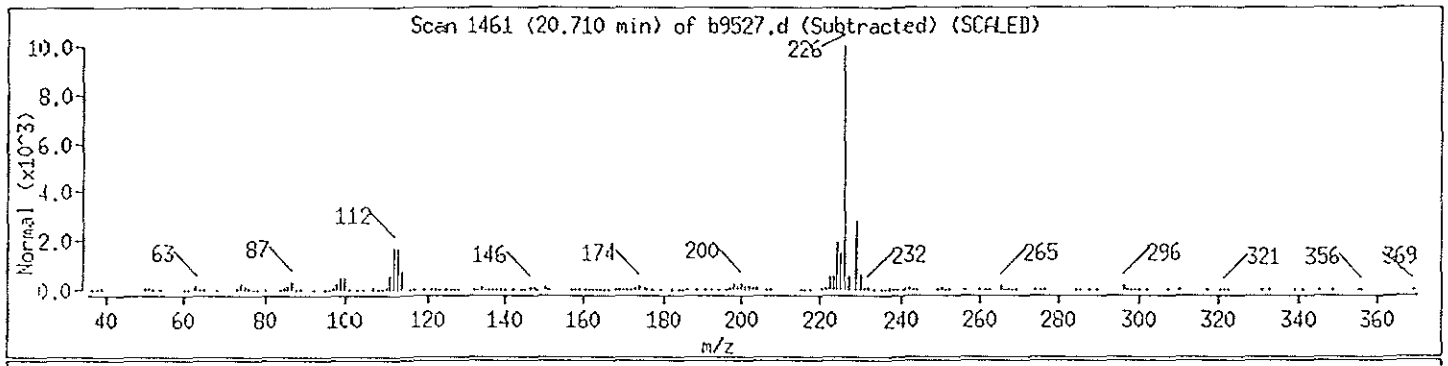
Sample Info: 17418n clj78cs003

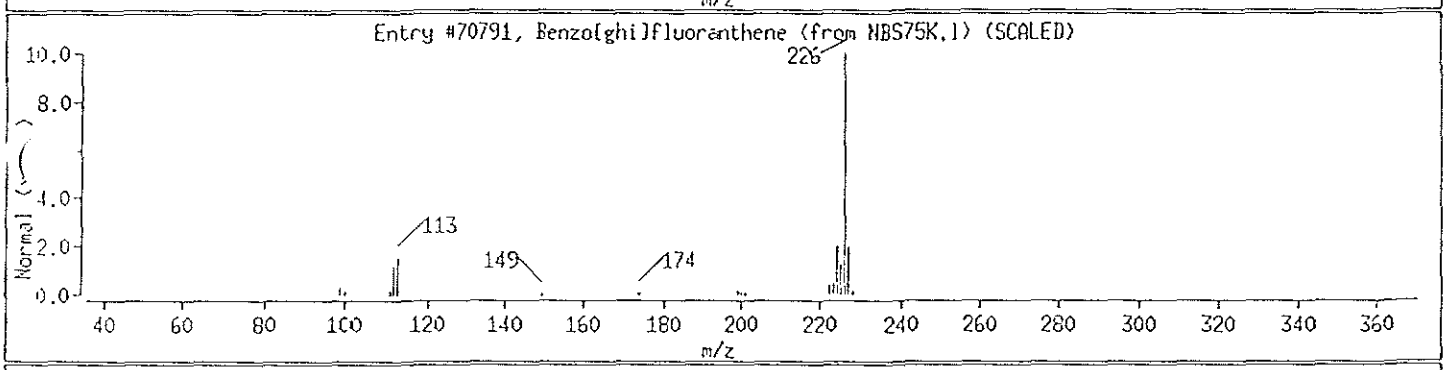
Operator: K. Bigelow

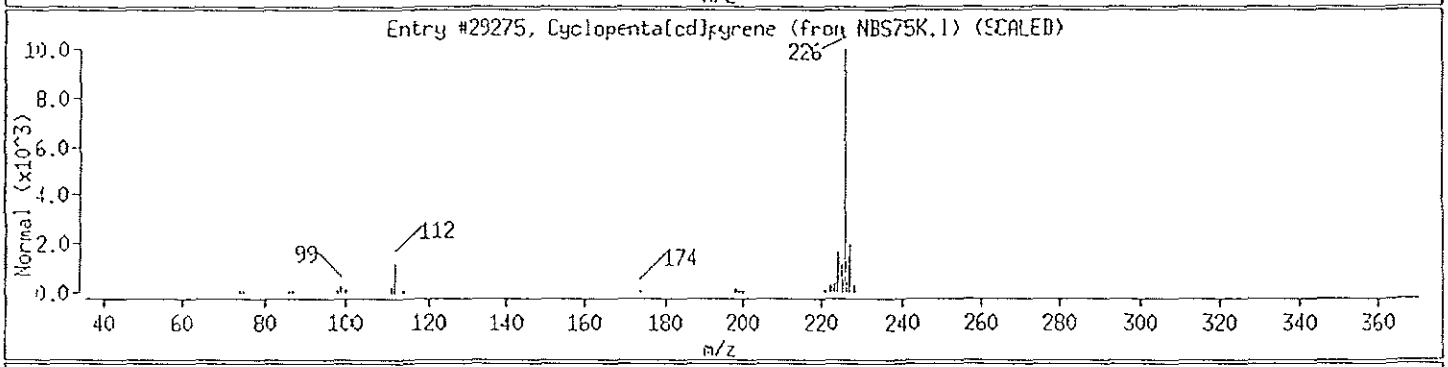
Column phase: J&W DB-5

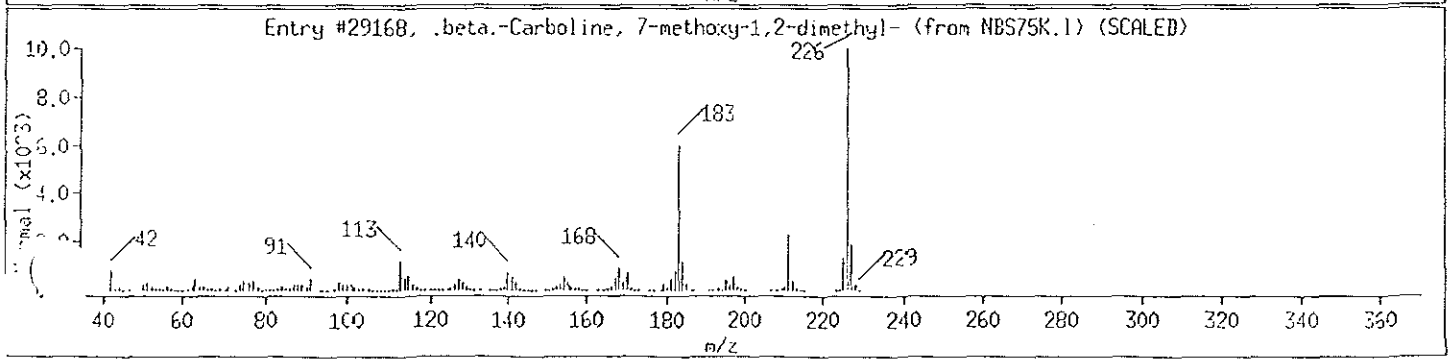
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzo[ghi]fluoranthene	203-12-3	NBS75K.l	70791	58	C18H10	226
Cyclopenta[cd]pyrene	27208-37-3	NBS75K.l	29275	49	C18H10	226
.beta.-Carboline, 7-methoxy-1,2-dimethyl	0-00-0	NBS75K.l	29168	38	C14H14N2O	226









Data File: /chem/aux/msb.i/b011996.b/b9527.d

Date : 19-JAN-96 16:12

Client ID:

Instrument: msb.i

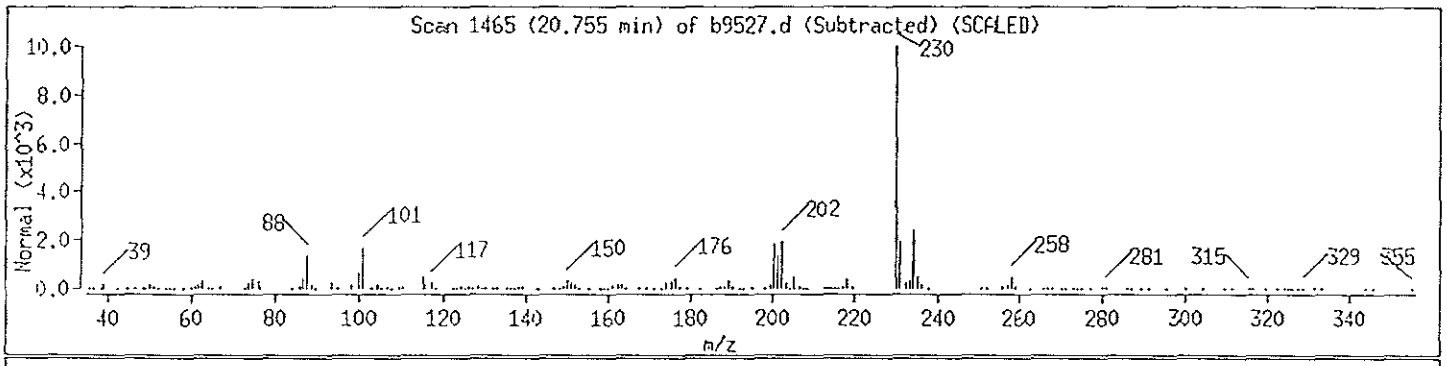
Sample Info: 17418n clj78cs003

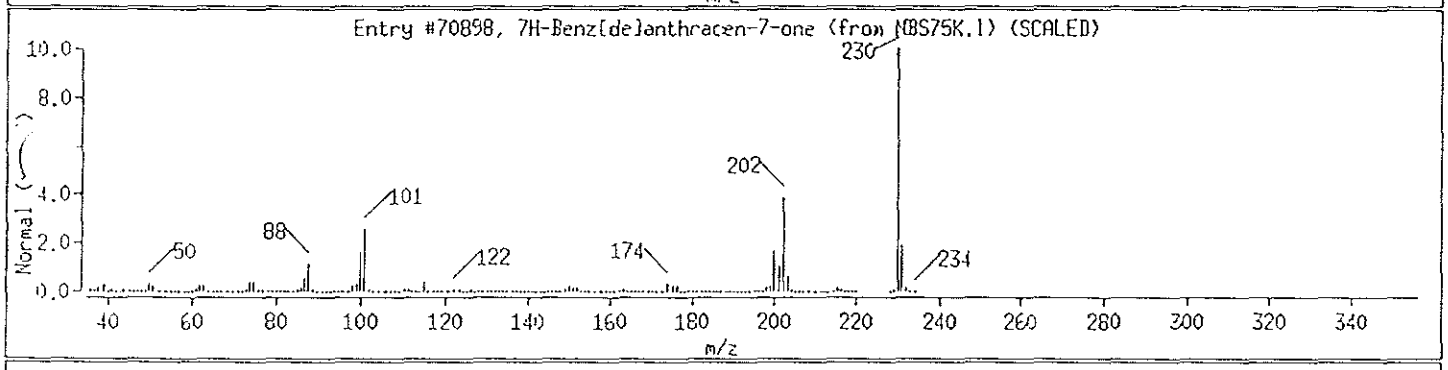
Operator: K. Bigelow

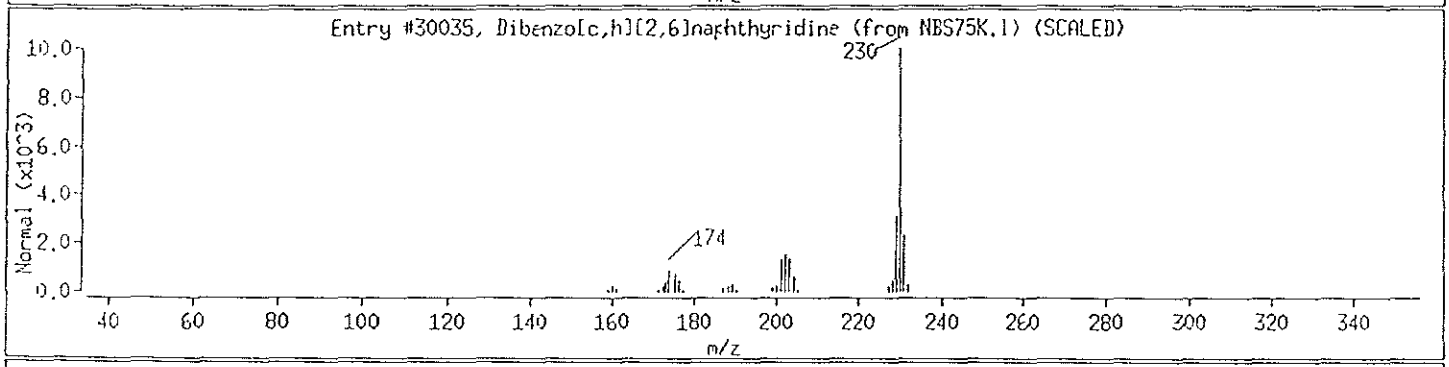
Column phase: J&W DB-5

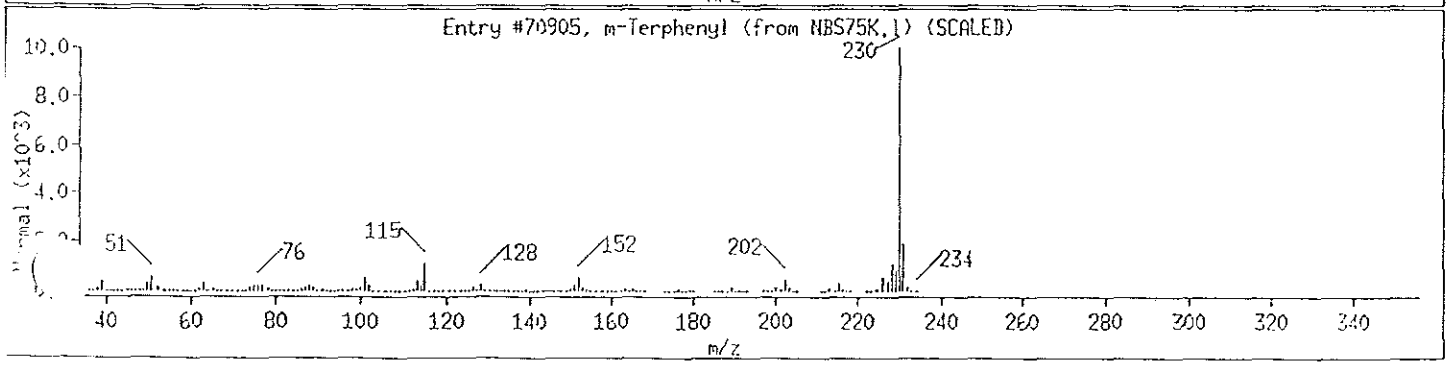
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
7H-Benz[de]anthracen-7-one	82-05-3	NBS75K.1	70898	70	C17H10O	230
Dibenzo[c,h][2,6]naphthyridine	218-30-4	NBS75K.1	30035	53	C16H10N2	230
m-Terphenyl	92-06-8	NBS75K.1	70905	49	C18H14	230









Data File: /chem/aux/msb.i/b011996.b/b9527.d

Date : 19-JAN-96 16:12

Client ID:

Instrument: msb.i

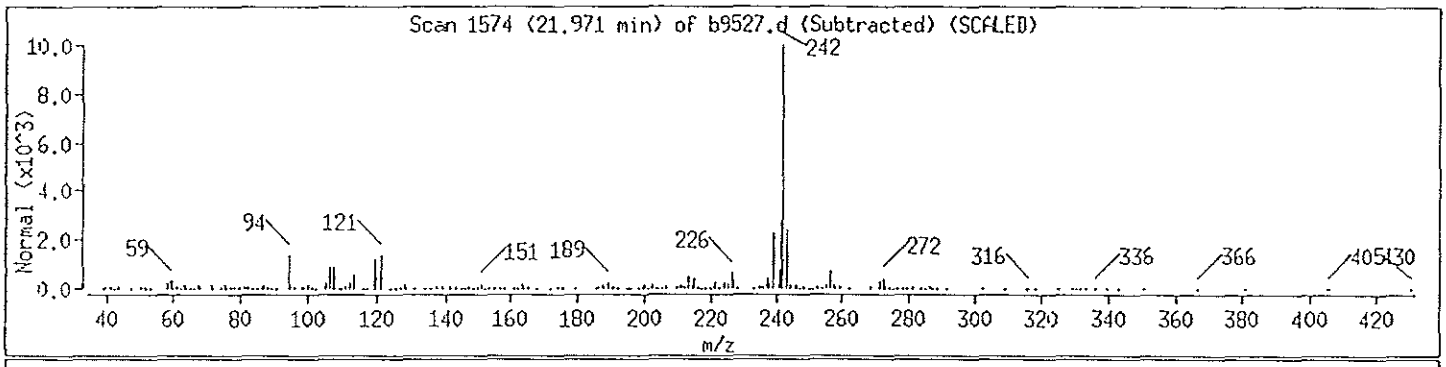
Sample Info: 17418n clj78cs003

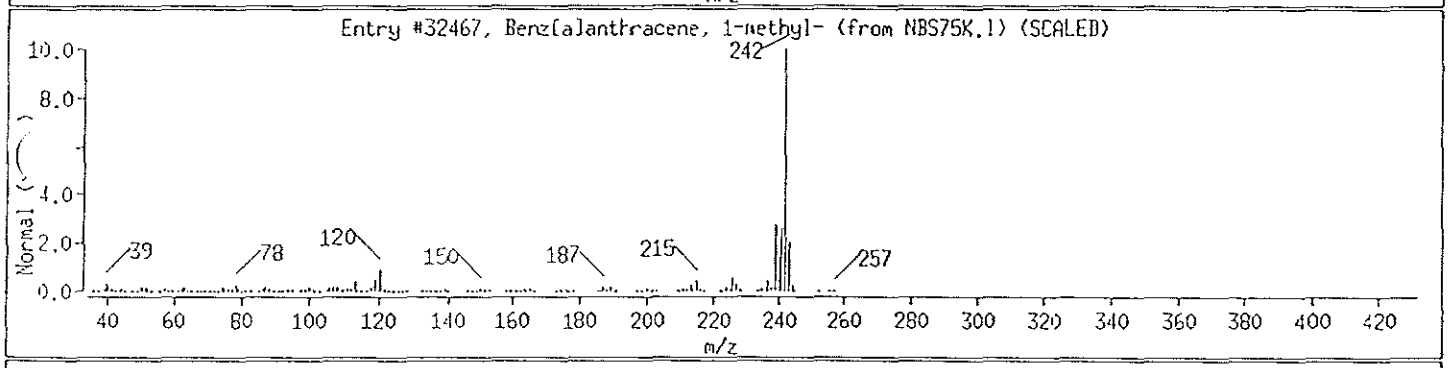
Operator: K. Bigelow

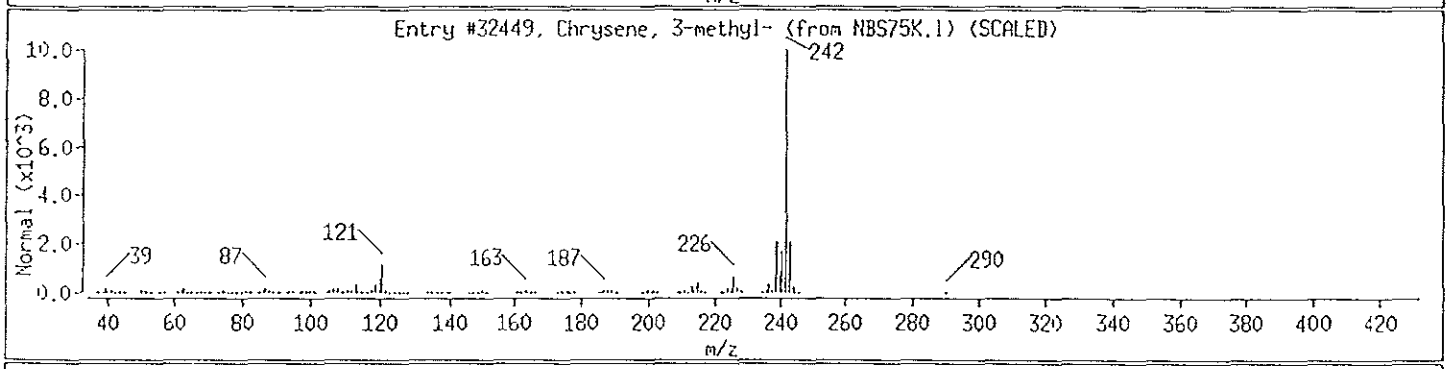
Column phase: J&W DB-5

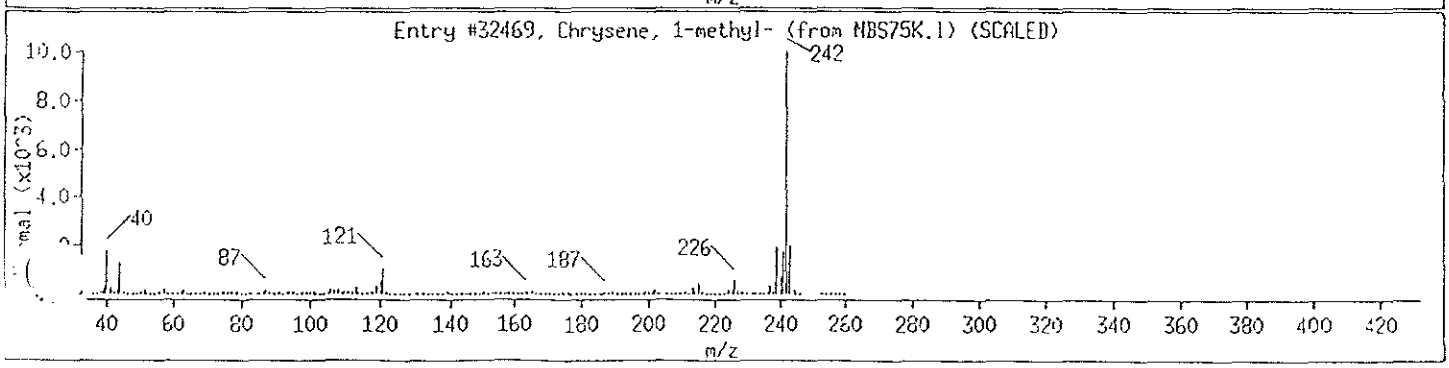
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benz[a]anthracene, 1-methyl-	2498-77-3	NBS75K.l	32467	96	C19H14	242
Chrysene, 3-methyl-	3351-31-3	NBS75K.l	32449	96	C19H14	242
Chrysene, 1-methyl-	3351-28-8	NBS75K.l	32469	96	C19H14	242









Data File: /chem/aux/msb.i/b011996.b/b9527.d

Date : 19-JAN-96 16:12

Client ID:

Instrument: msb.i

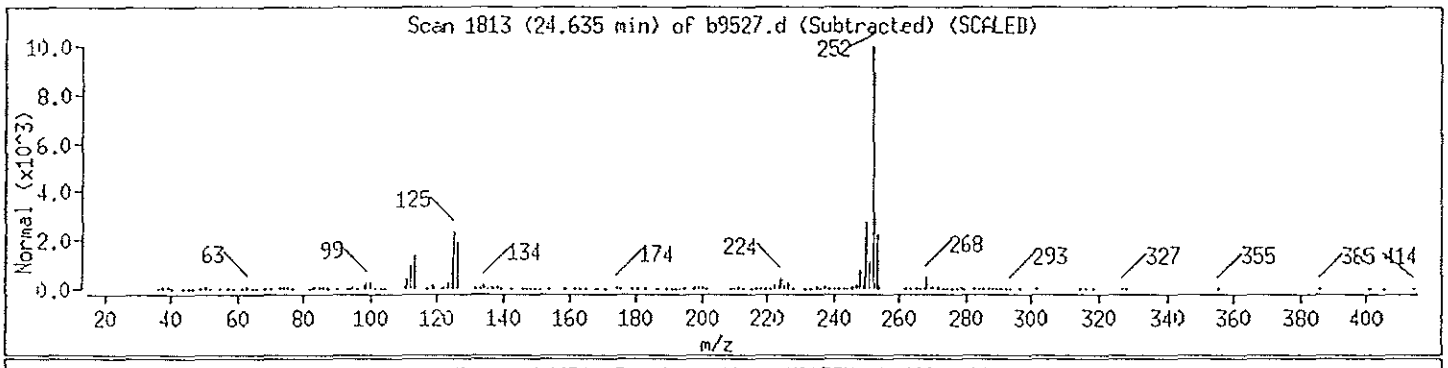
Sample Info: 17418n clj78cs003

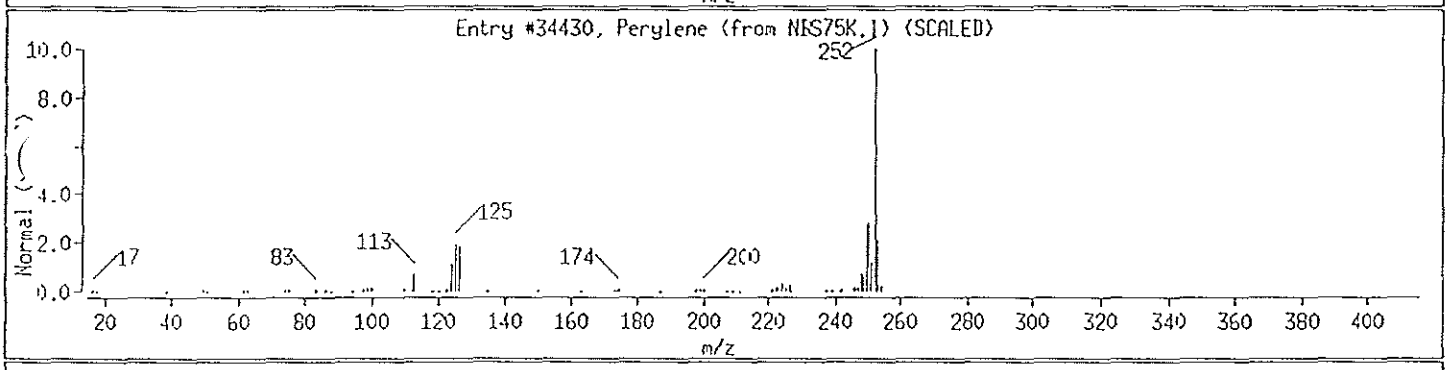
Operator: K. Bigelow

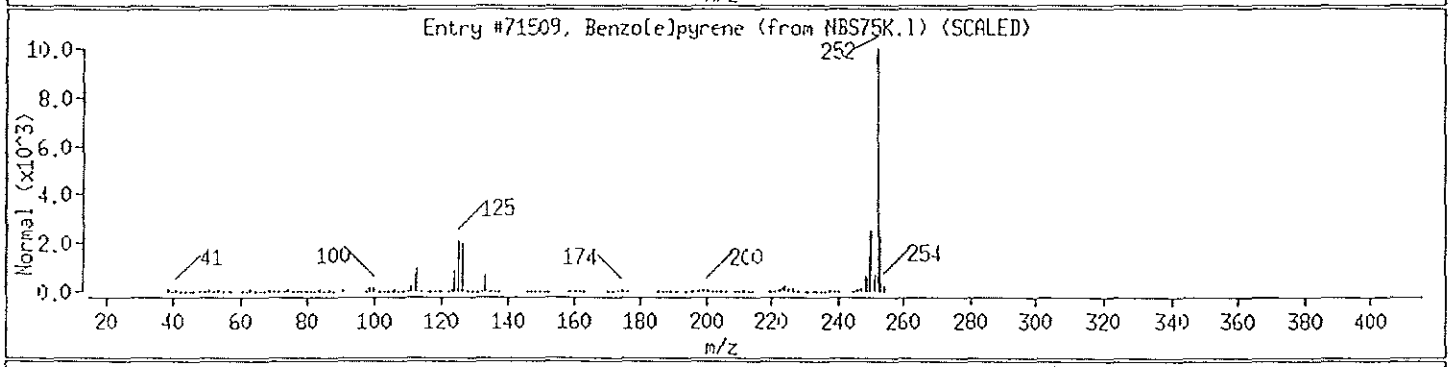
Column phase: J&W DB-5

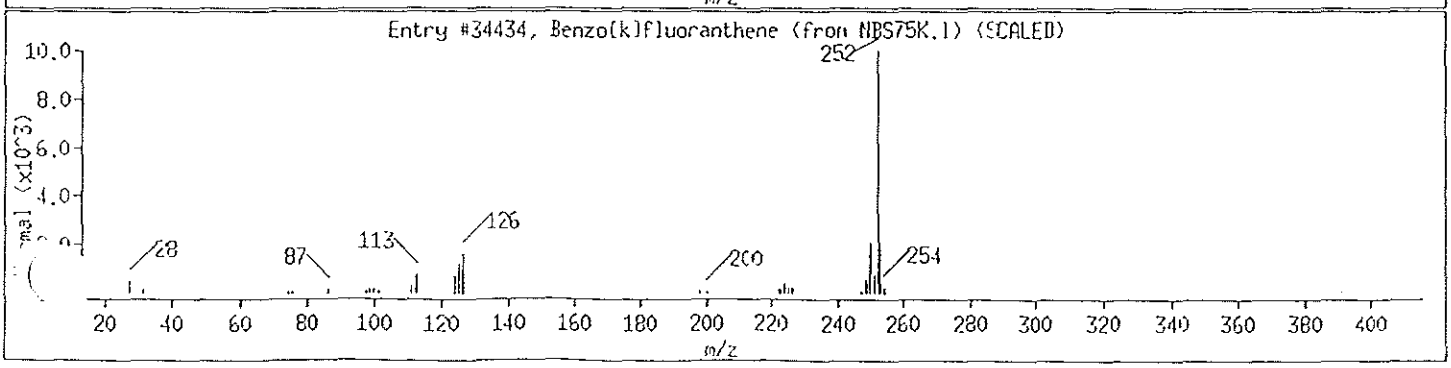
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Perylene	198-55-0	NBS75K.1	34430	98	C20H12	252
Benzo[e]pyrene	192-97-2	NBS75K.1	71509	96	C20H12	252
Benzo[k]fluoranthene	207-08-9	NBS75K.1	34434	96	C20H12	252









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Date : 19-JAN-96 16:12

Client ID:

Instrument: msb.i

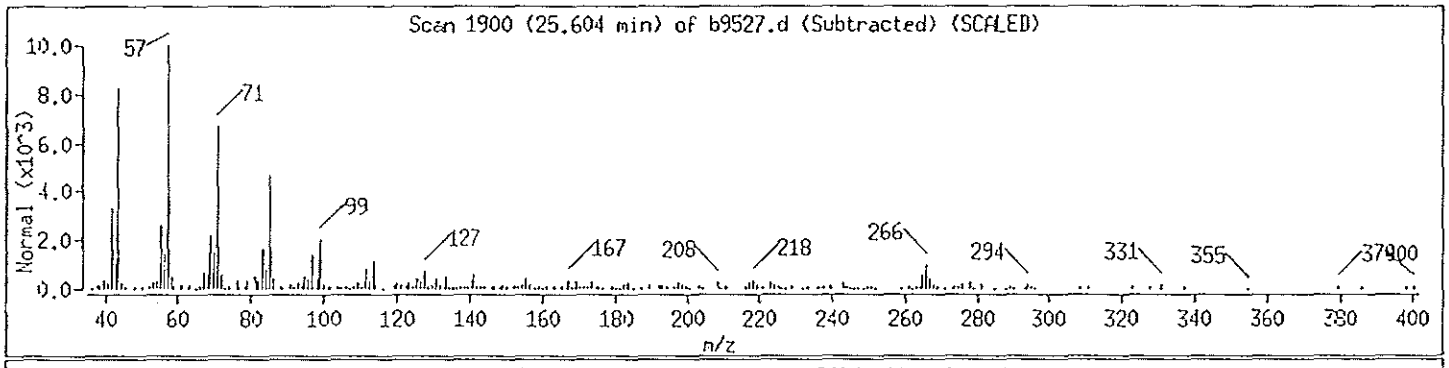
Sample Info: 17418n clj78cs003

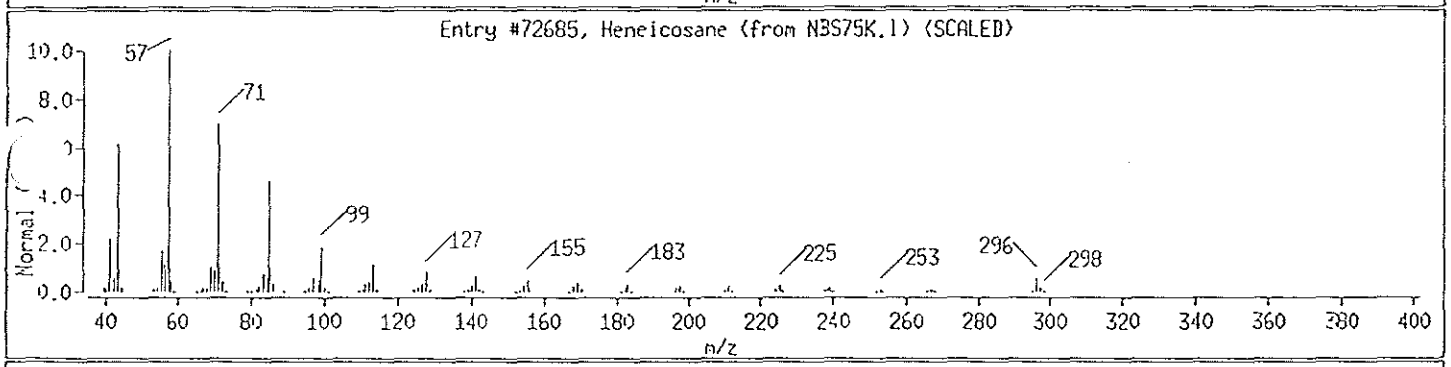
Operator: K. Bigelow

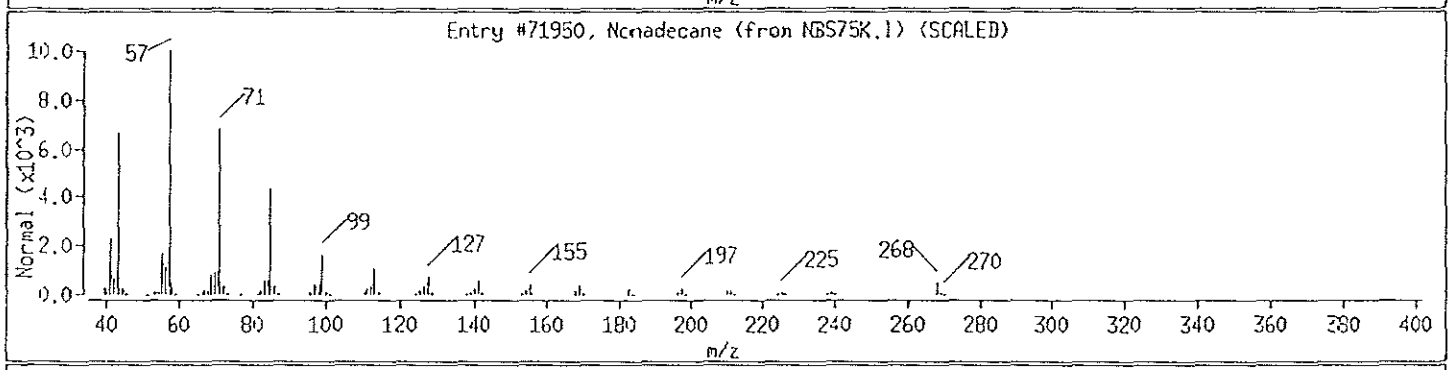
Column phase: J&W DB-5

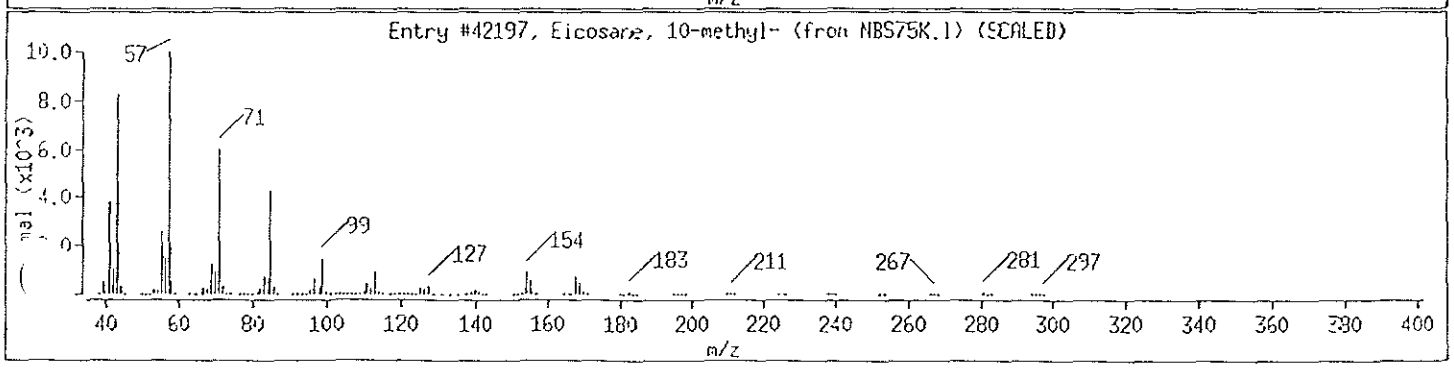
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Heneicosane	629-94-7	NBS75K.1	72685	95	C21H44	296
Nonadecane	629-92-5	NBS75K.1	71950	94	C19H40	268
Eicosane, 10-methyl-	54833-23-7	NBS75K.1	42197	93	C21H44	296









1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0299 EPA SAMPLE NO.

CLJ78CS004

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2494C

Sample wt/vol: 30.7 (g/mL) G Lab File ID: B9528

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: 17 decanted: (Y/N) N Date Extracted: 01/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	390	U
111-44-4	bis(2-Chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	360	J
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	86	J
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	390	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0300 EPA SAMPLE NO.

CLJ78CS004

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

D Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2494C

Sample wt/vol: 30.7 (g/mL) G Lab File ID: B9528

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: 17 decanted: (Y/N) N Date Extracted: 01/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2000	U
100-02-7	4-Nitrophenol	2000	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	980	U
101-55-3	4-Bromophenyl-phenylether	390	U
86-30-6	N-Nitrosodiphenylamine (1)	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	160	J
206-44-0	Fluoranthene	390	U
129-00-0	Pyrene	390	U
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	390	U
218-01-9	Chrysene	390	U
117-81-7	bis(2-Ethylhexyl)phthalate	4500	
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
53-70-3	Dibenz(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0301 EPA SAMPLE NO.

CLJ78CS004

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2494C

Sample wt/vol: 30.7 (g/mL) G Lab File ID: B9528

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: 17 decanted: (Y/N) N Date Extracted: 01/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-Pentanone, 4-hydroxy-4-met	5.88	3600	JNA
2. 111-84-2	Nonane	6.34	3700	JN
3.	Unk hydrocarbon	6.55	890	J
4. 15869-94-0	Octane, 3,6-dimethyl-	6.64	2200	JN
5.	unknown	6.73	2900	J
6.	Unk hydrocarbon	6.88	7300	J
7.	unknown	7.13	1000	J
8. 124-18-5	Decane	7.20	10000	JN
9. 526-73-8	Benzene, 1,2,3-trimethyl-	7.31	3100	JN
10.	Unk hydrocarbon	7.39	1000	J
11. 1189-99-7	Heptane, 2,5,5-trimethyl-	7.42	3200	JN
12.	Unk hydrocarbon	7.59	1000	J
13. 1678-93-9	Cyclohexane, butyl-	7.66	2800	JN
14.	Unk hydrocarbon	7.73	1400	J
15. 493-02-7	Naphthalene, decahydro-, tra	8.05	720	JN
16. 1120-21-4	Undecane	8.14	4400	JN
17.	Unk substituted aromatic	8.42	950	J
18. 112-40-3	Dodecane	9.14	740	JN
19. 72-54-8	1,1-Dichloro-2,2-bis(p-chlor	19.42	880	JN
20. 4337-65-9	Hexanedioic acid, mono(2-eth	19.81	730	JN

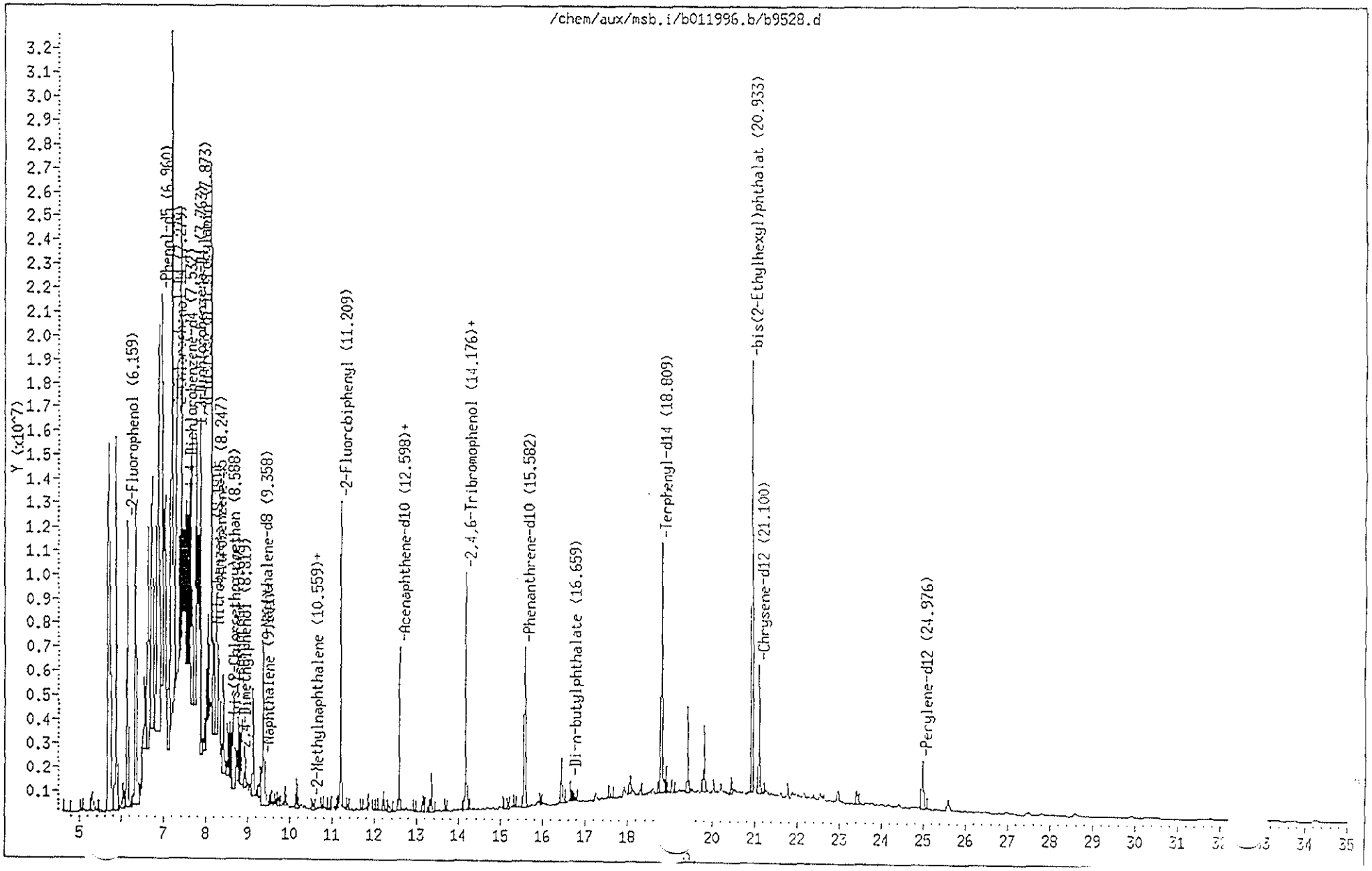
0302

Data File: /chem/aux/msb.i/b011996.b/b9528.d
Date : 19-JAN-96 16:59
Client ID:
Sample Info: 17418n clj78cs004

Column phase: J&W DB-5

Instrument: msb.i

Operator: K. Bigelow
Column diameter: 0.25



Data File: /chem/aux/msb.i/b011996.b/b9528.d
Report Date: 20-Jan-1996 09:18

OHM Analytical Division

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/aux/msb.i/b011996.b/b9528.d
Lab Smp Id:
Inj Date : 19-JAN-96 16:59
Operator : K. Bigelow Inst ID: msb.i
Smp Info : 17418n clj78cs004
Misc Info : jp2494c,n2c60119,ml,1,1
Comment :
Method : /chem/aux/msb.i/b011996.b/0112996bclp.m
Meth Date : 20-Jan-1996 09:14 kathryn Quant Type: ISTD
Cal Date : 19-JAN-96 10:44 Cal File: b9520.d
Als bottle: 10
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

KBigelow

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
$		2-Fluorophenol	112.00	6.159	6.157	(0.819)	5331254	107	107(R)
S	4	Phenol-d5	99.00	6.971	6.976	(0.927)	5195987	85.3	85.3(QR)
S	7	2-Chlorophenol-D4	132.00	7.279	7.283	(0.968)	5010630	105	105(R)
*	10	1,4-Dichlorobenzene-d4	152.00	7.521	7.524	(1.000)	1497861	40.0	
S	13	1,2-Dichlorobenzene-D4	152.00	7.774	7.787	(1.034)	2166924	68.4	68.4(R)
	17	N-Nitroso-di-n-propylamine	70.00	7.973	7.995	(1.047)	357723	8.38	8.~~35~~(Q) ND, Rt, MS
S	19	Nitrobenzene-d5	82.00	8.247	8.269	(0.881)	3500816	65.2	65.2(R)
	20	Nitrobenzene	77.00	8.181	8.291	(0.874)	261420	4.98	4.~~98~~(Q) ND, Rt, MS
	21	Isophorone	82.00	8.665	8.597	(0.926)	522695	4.72	4.~~72~~ ND, MS
	22	2,4-Dimethylphenol	107.00	8.819	8.674	(0.942)	117786	2.36	2.~~35~~(Q) ND, Rt, MS
	24	bis(2-Chloroethoxy)methane	93.00	8.588	8.827	(0.918)	164114	2.46	2.~~46~~(Q) ND, Rt, MS
*	27	Naphthalene-d8	136.00	9.358	9.386	(1.000)	5168059	40.0	
	28	Naphthalene	128.00	9.391	9.419	(1.004)	1123497	9.24	9.24
	29	4-Chloroaniline	127.00	9.402	9.430	(1.005)	179850	2.44	2.~~44~~(Q) ND, MS
	32	2-Methylnaphthalene	142.00	10.559	10.580	(1.128)	182842	2.20	2.20
	33	1-Methylnapthalene	142.00	10.748 ~~10.559~~	10.788	(1.128)	182842	2.46	2.~~46~~ 1.2
S	37	2-Fluorobiphenyl	172.00	11.209	11.228	(0.890)	7029977	76.8	76.8(R)
*	44	Acenaphthene-d10	164.00	12.598	12.620	(1.000)	2846883	40.0	
	48	2,4-Dinitrotoluene	165.00	12.598	12.949	(1.000)	392953	10.5	10.~~5~~(Q) ND, Rt, MS
S	56	2,4,6-Tribromophenol	330.00	14.176	14.200	(1.125)	2393233	150	150(R)
	57	4-Bromophenyl-phenylether	248.00	14.176	14.595	(0.910)	171979	5.64	5.~~64~~(Q) ND, Rt, MS
*	60	Phenanthrene-d10	188.00	15.582	15.604	(1.000)	4510144	40.0	
	64	Di-n-butylphthalate	149.00	16.659	16.678	(1.069)	766589	4.03	4.03
S	68	Terphenyl-d14	244.00	18.809	18.826	(0.891)	7525744	86.1	86.1(R)
		bis(2-Ethylhexyl)phthalate	149.00	20.933	20.954	(0.992)	10369354	114	114
*		rysene-d12	240.00	21.100	21.131	(1.000)	3281655	40.0	
*	79	Perylene-d12	264.00	24.987	25.033	(1.000)	2296452	40.0	

Data File: /chem/aux/msb.i/b011996.b/b9528.d

Date : 19-JAN-96 16:59

Client ID:

Instrument: msb.i

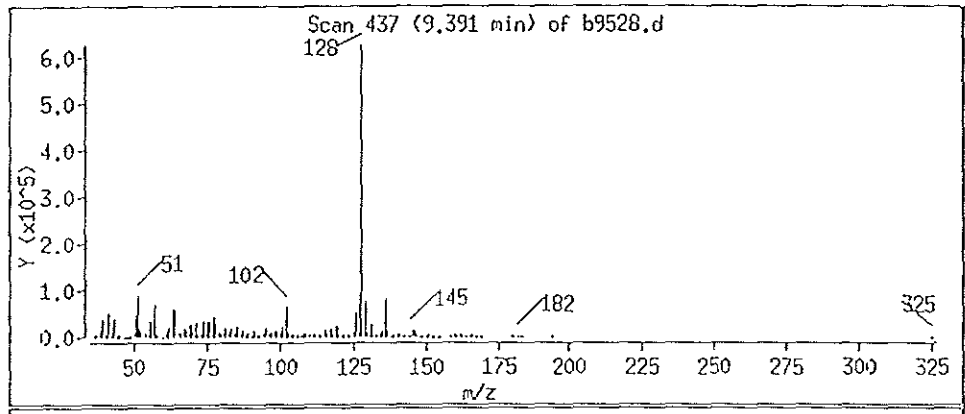
Sample Info: 17418n clj78cs004

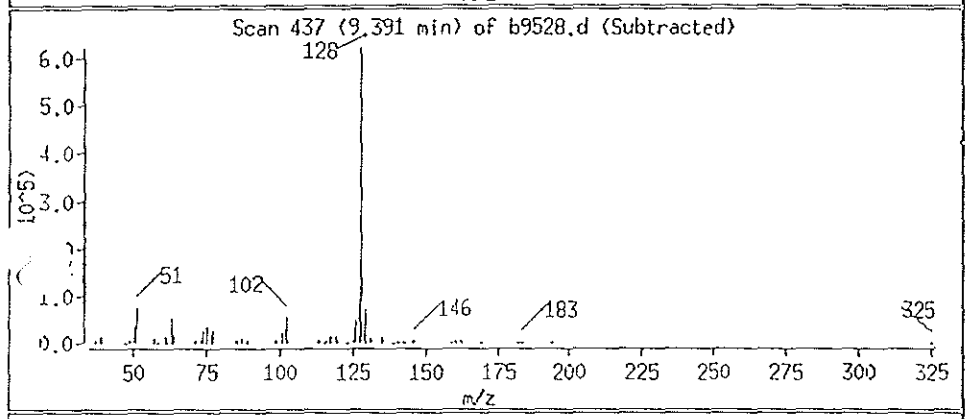
Operator: K. Bigelow

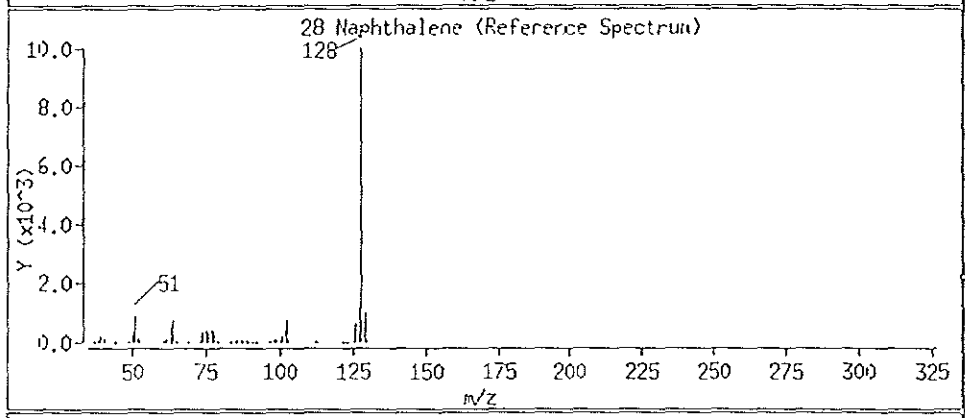
Column phase: J&W DB-5

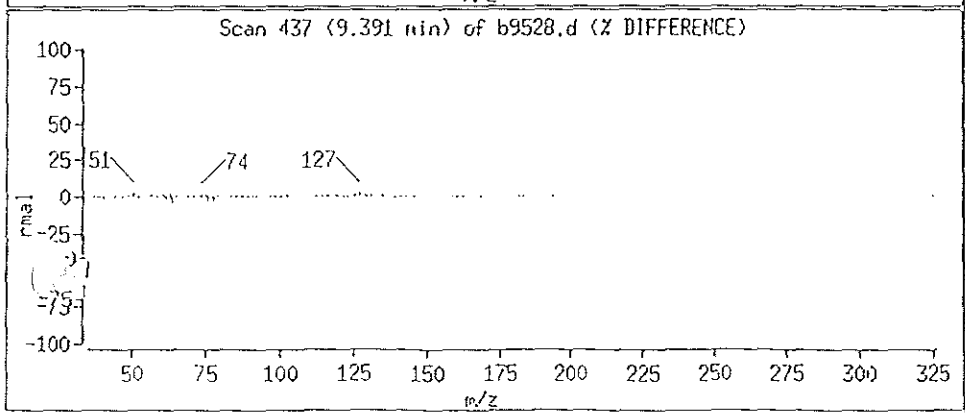
Column diameter: 0.25

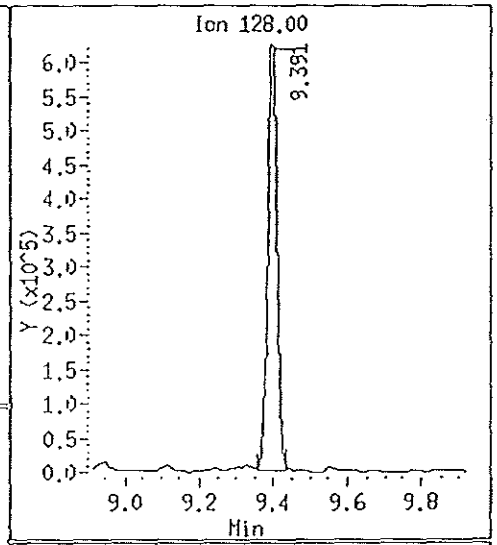
28 Naphthalene

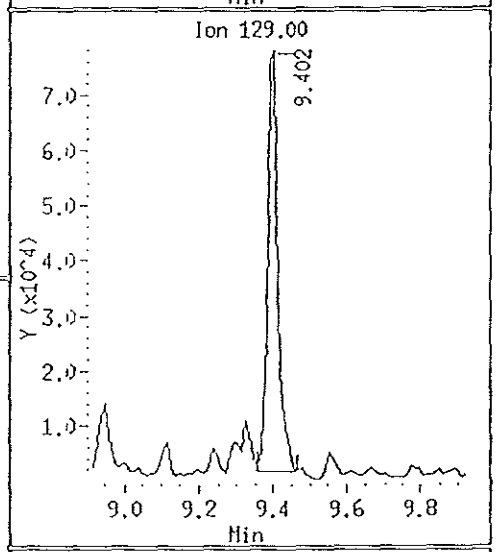


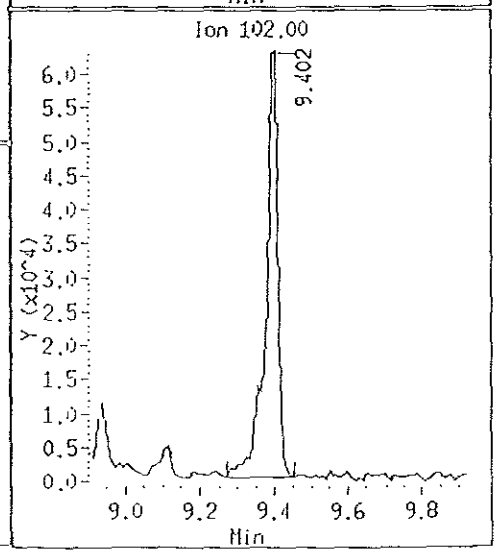












Data File: /chem/aux/msb.i/b011996.b/b9528.d

Date : 19-JAN-96 16:59

Client ID:

Instrument: msb.i

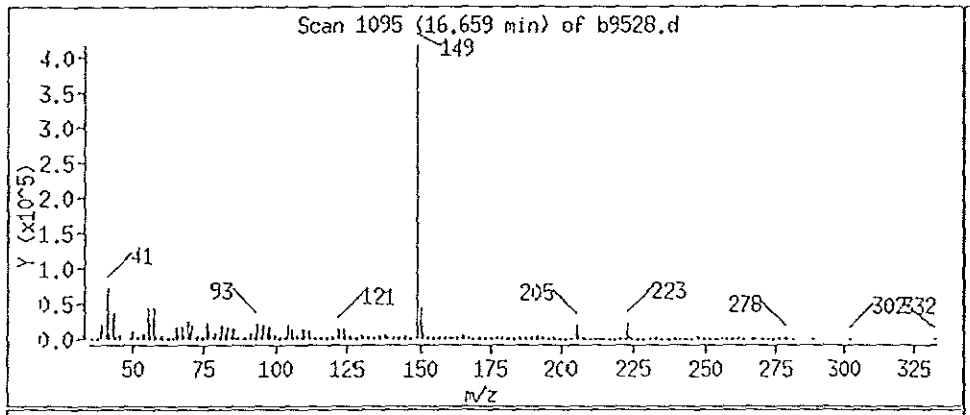
Sample Info: 17418n clj78cs004

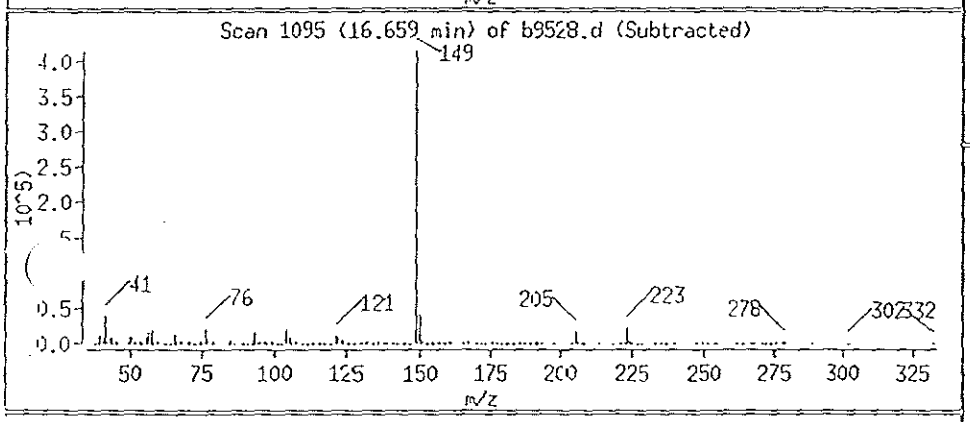
Operator: K. Bigelow

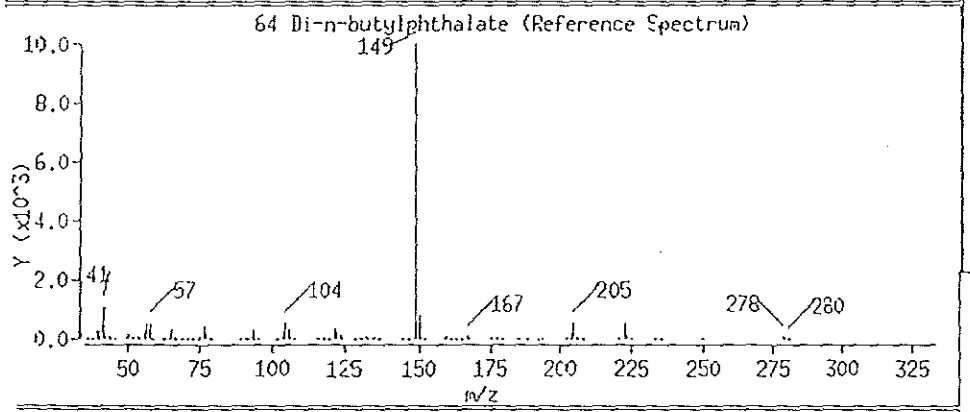
Column phase: J&W DB-5

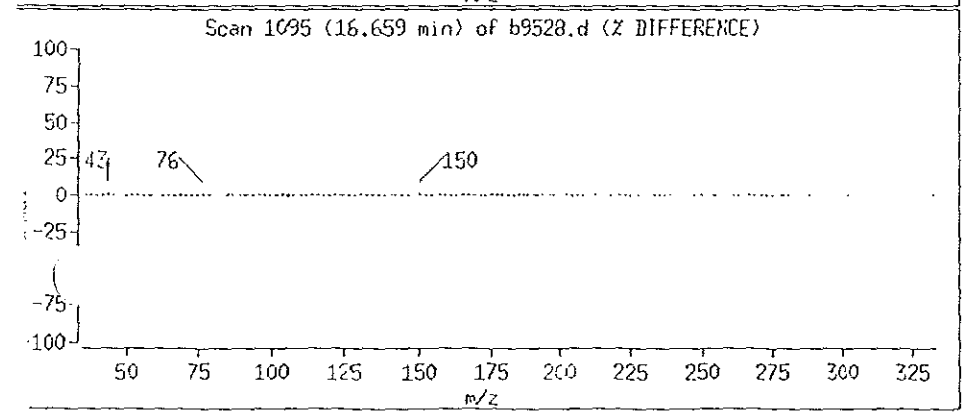
Column diameter: 0.25

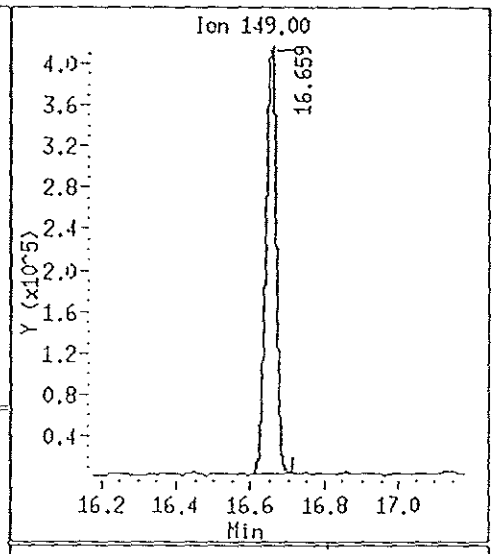
64 Di-n-butylphthalate

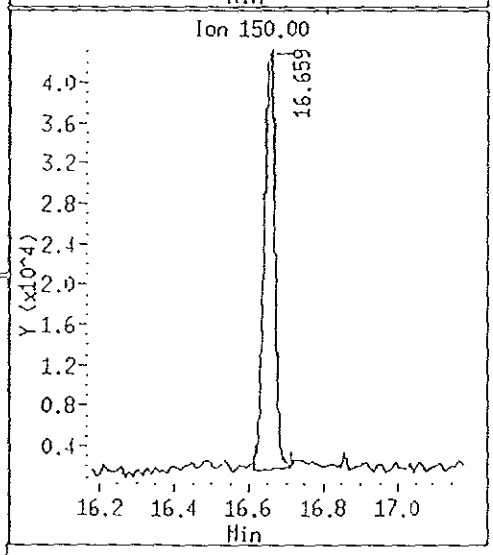












Data File: /chem/aux/msb.i/b011996.b/b9528.d

Date : 19-JAN-96 16:59

Client ID:

Instrument: msb.i

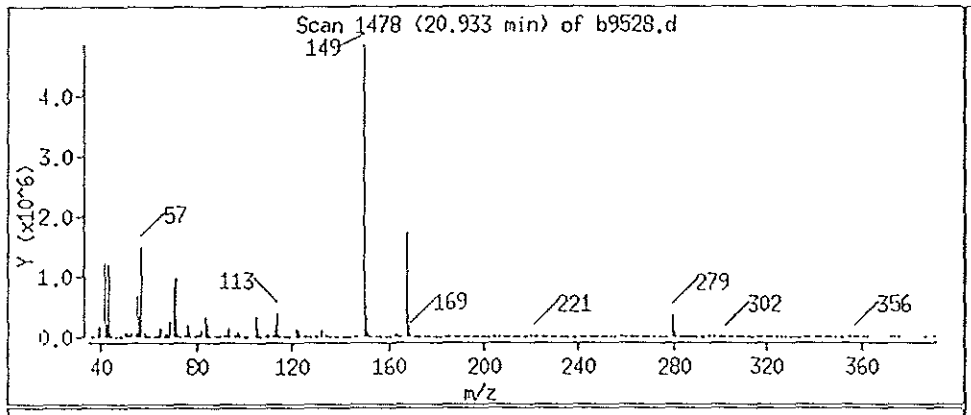
Sample Info: 17418n clj78cs004

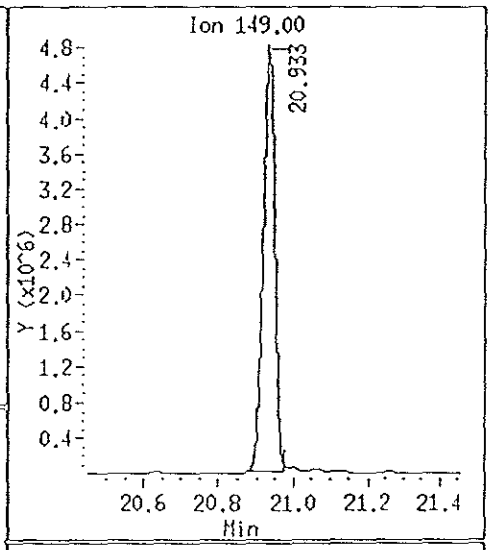
Operator: K. Bigelow

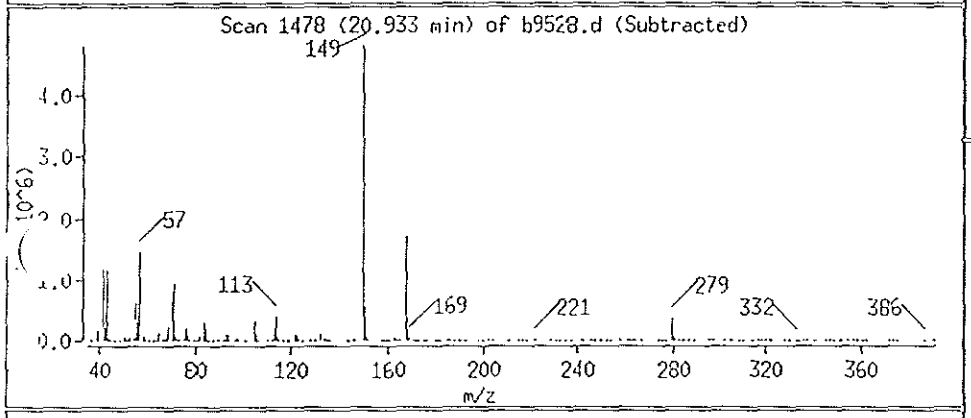
Column phase: J&W DB-5

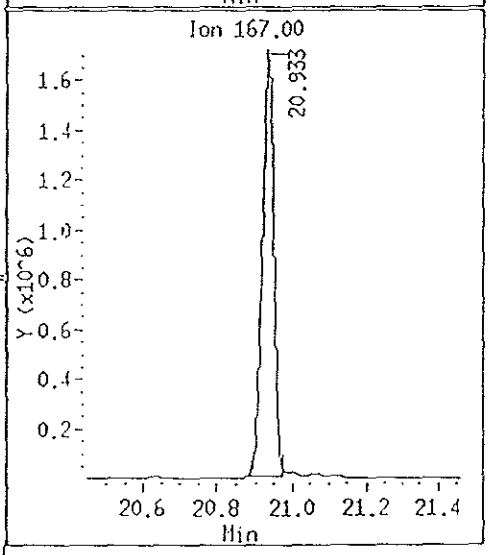
Column diameter: 0.25

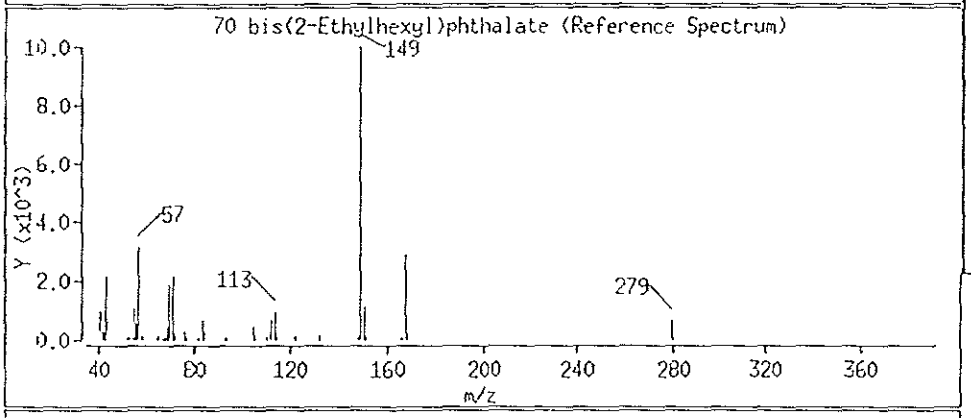
70 bis(2-Ethylhexyl)phthalate

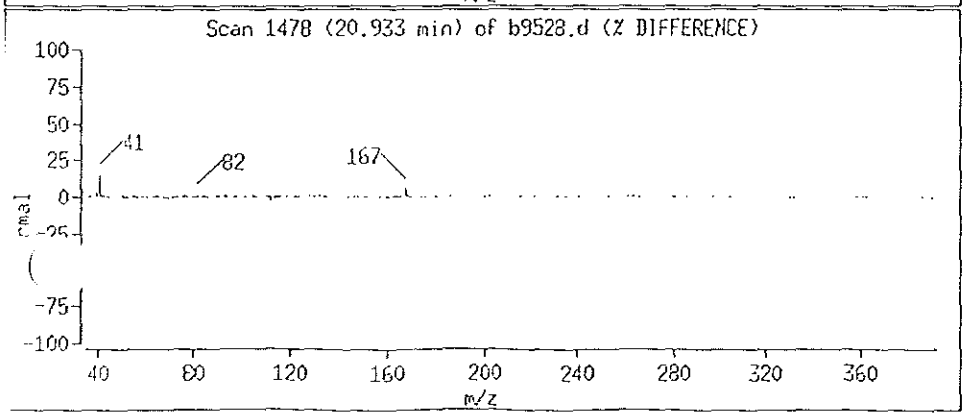












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Date : 19-JAN-96 16:59

Client ID:

Instrument: msb.i

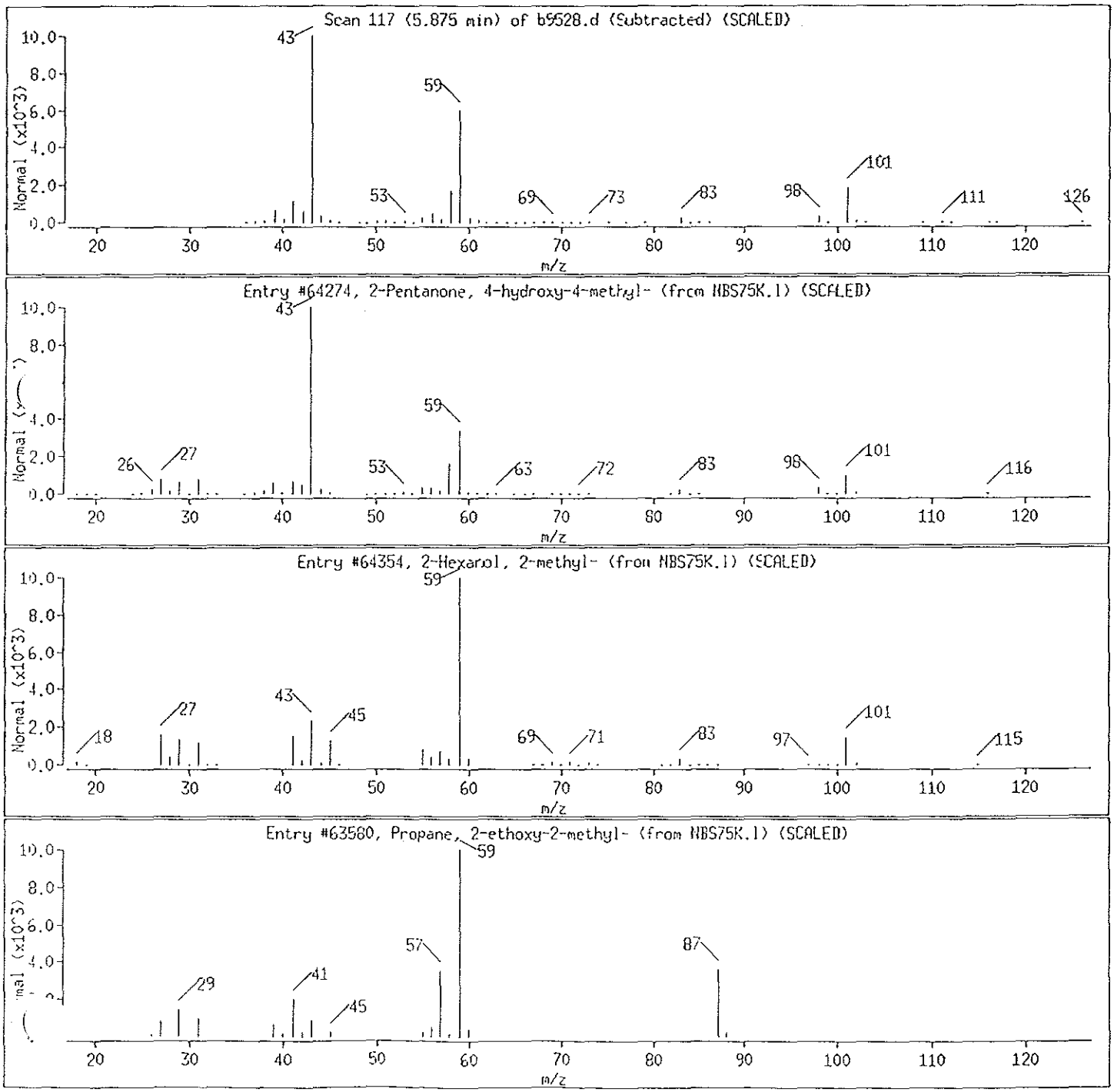
ample Info: 17418n clj78cs004

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NBS75K.l	64274	64	C6H12O2	116
2-Hexanol, 2-methyl-	625-23-0	NBS75K.l	64354	28	C7H16O	116
Propane, 2-ethoxy-2-methyl-	637-92-3	NBS75K.l	63580	25	C6H14O	102



Data File: /chem/aux/msb.i/b011996.b/b9528.d

Date : 19-JAN-96 16:59

Client ID:

Instrument: msb.i

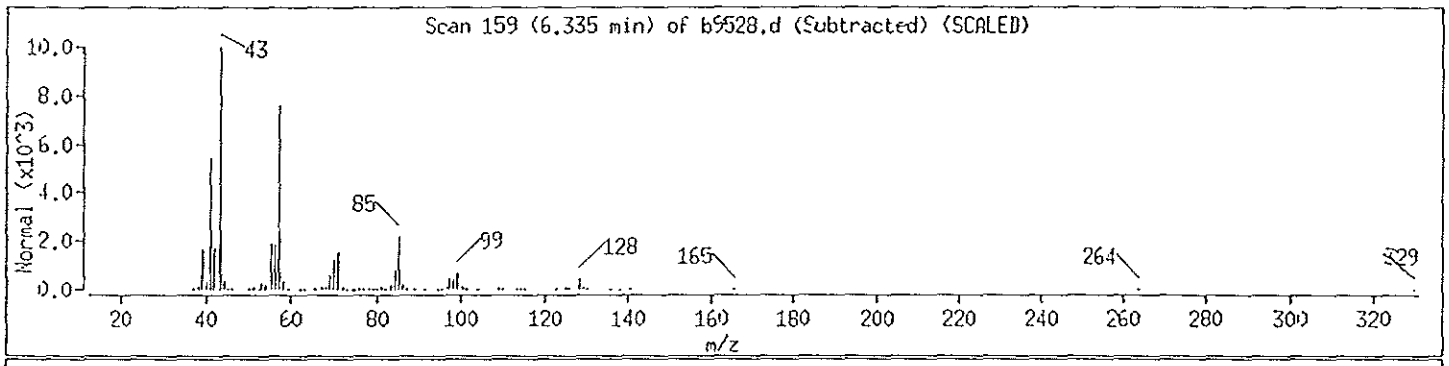
Sample Info: 17418n clj78cs004

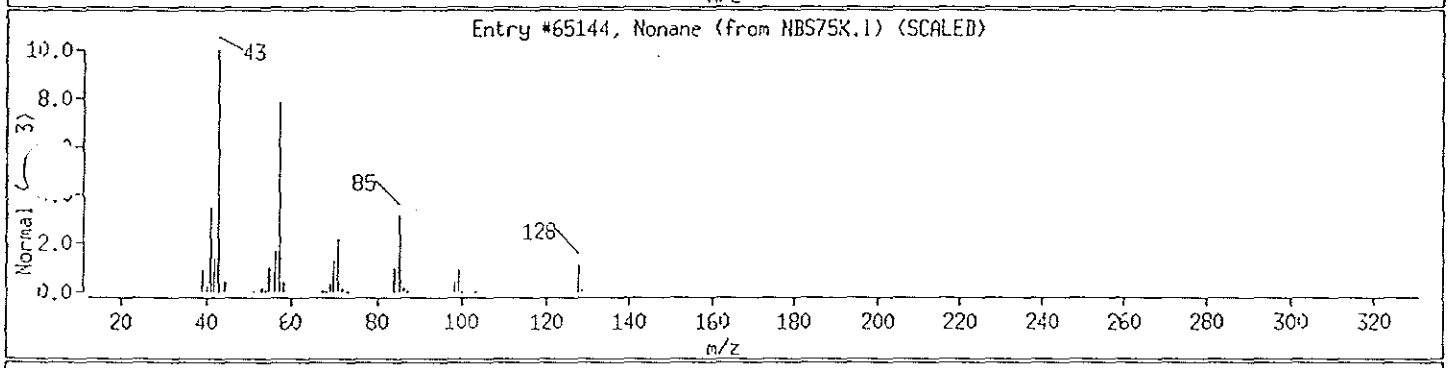
Operator: K. Bigelow

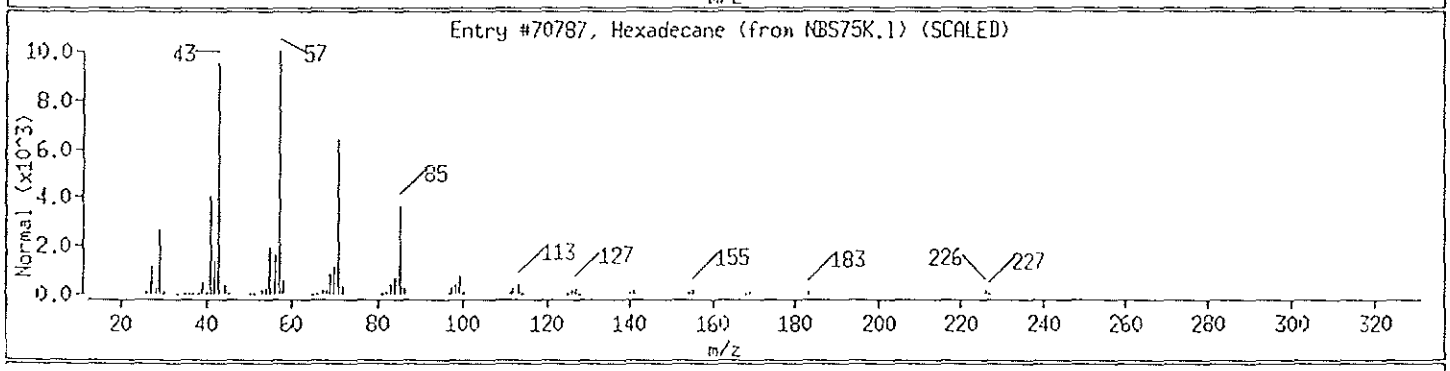
Column phase: J&W DB-5

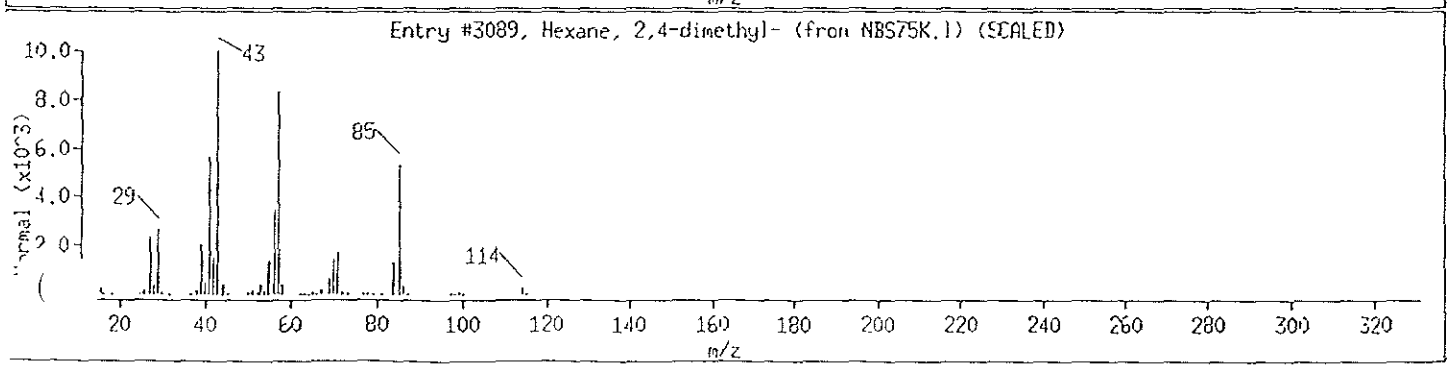
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonane	111-84-2	NBS75K.l	65144	94	C9H20	128
Hexadecane	544-76-3	NBS75K.l	70787	59	C16H34	226
Hexane, 2,4-dimethyl-	589-43-5	NBS75K.l	3089	58	C8H18	114









Data File: /chem/aux/msb.i/b011996.b/b9528.d

Date : 19-JAN-96 16:59

Client ID:

Instrument: msb.i

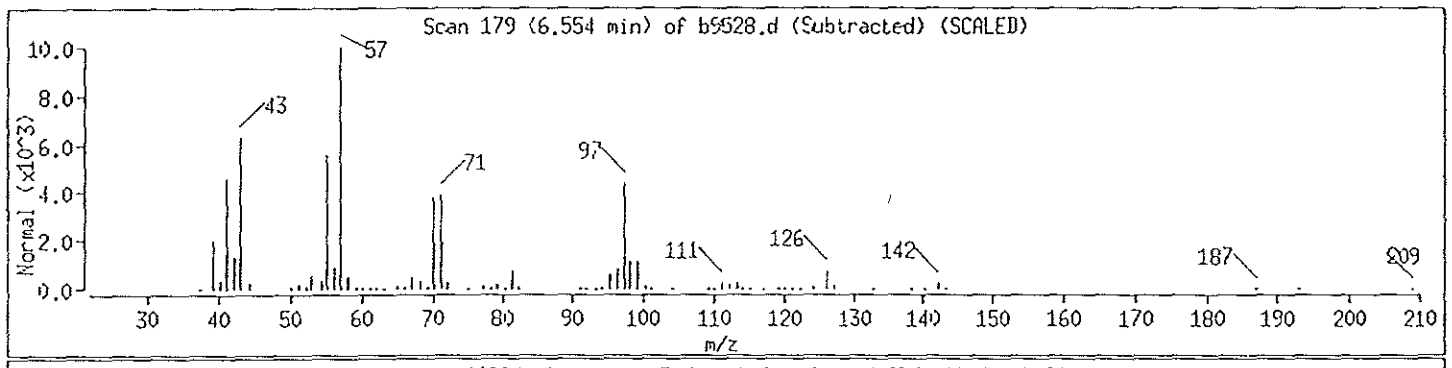
Sample Info: 17418n clj78cs004

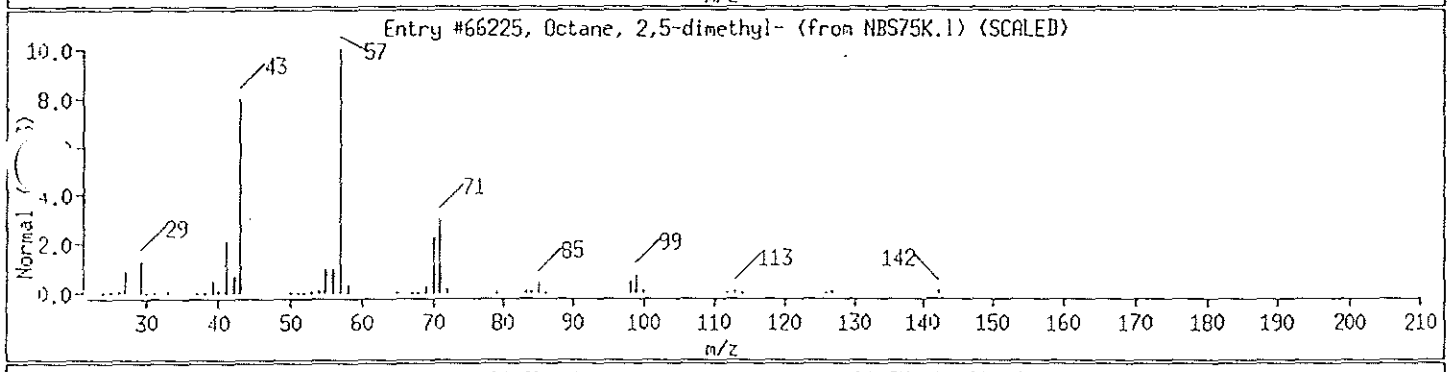
Operator: K. Bigelow

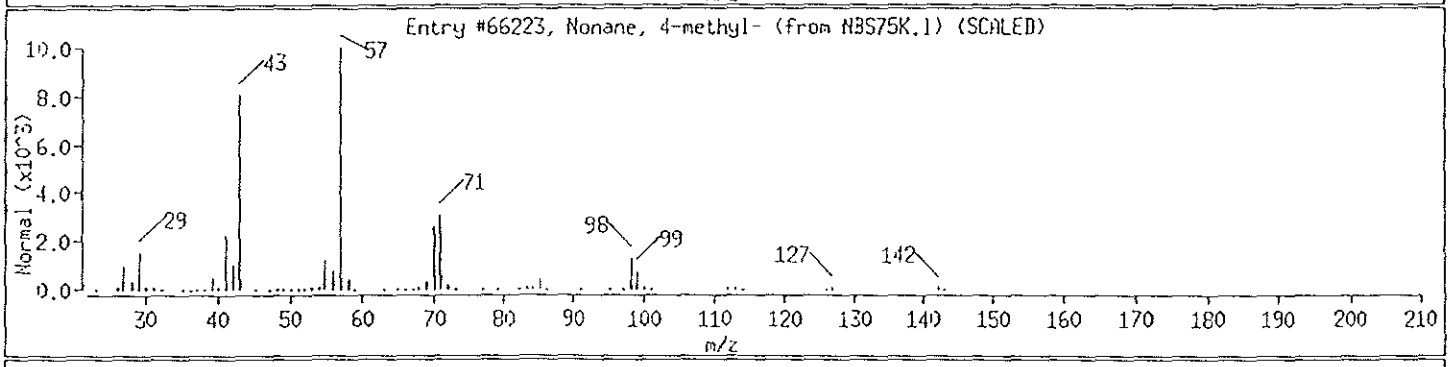
Column phase: J&W DB-5

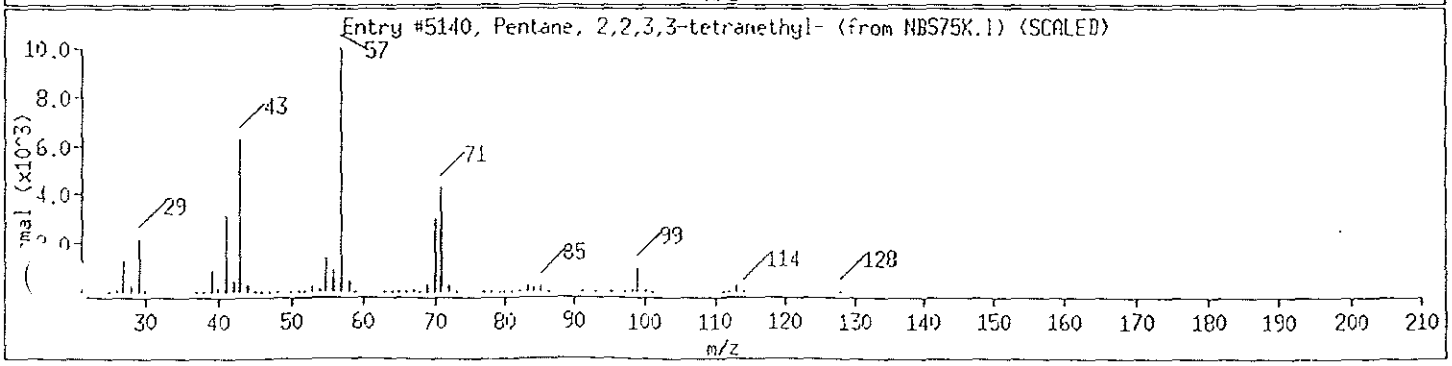
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Octane, 2,5-dimethyl-	15869-89-3	NBS75K.l	66225	53	C10H22	142
Nonane, 4-methyl-	17301-94-9	NBS75K.l	66223	52	C10H22	142
Pentane, 2,2,3,3-tetramethyl-	7154-79-2	NBS75K.l	5140	50	C9H20	128









Data File: /chem/aux/msb.i/b011996.b/b9528.d

Date : 19-JAN-96 16:59

Client ID:

Instrument: msb.i

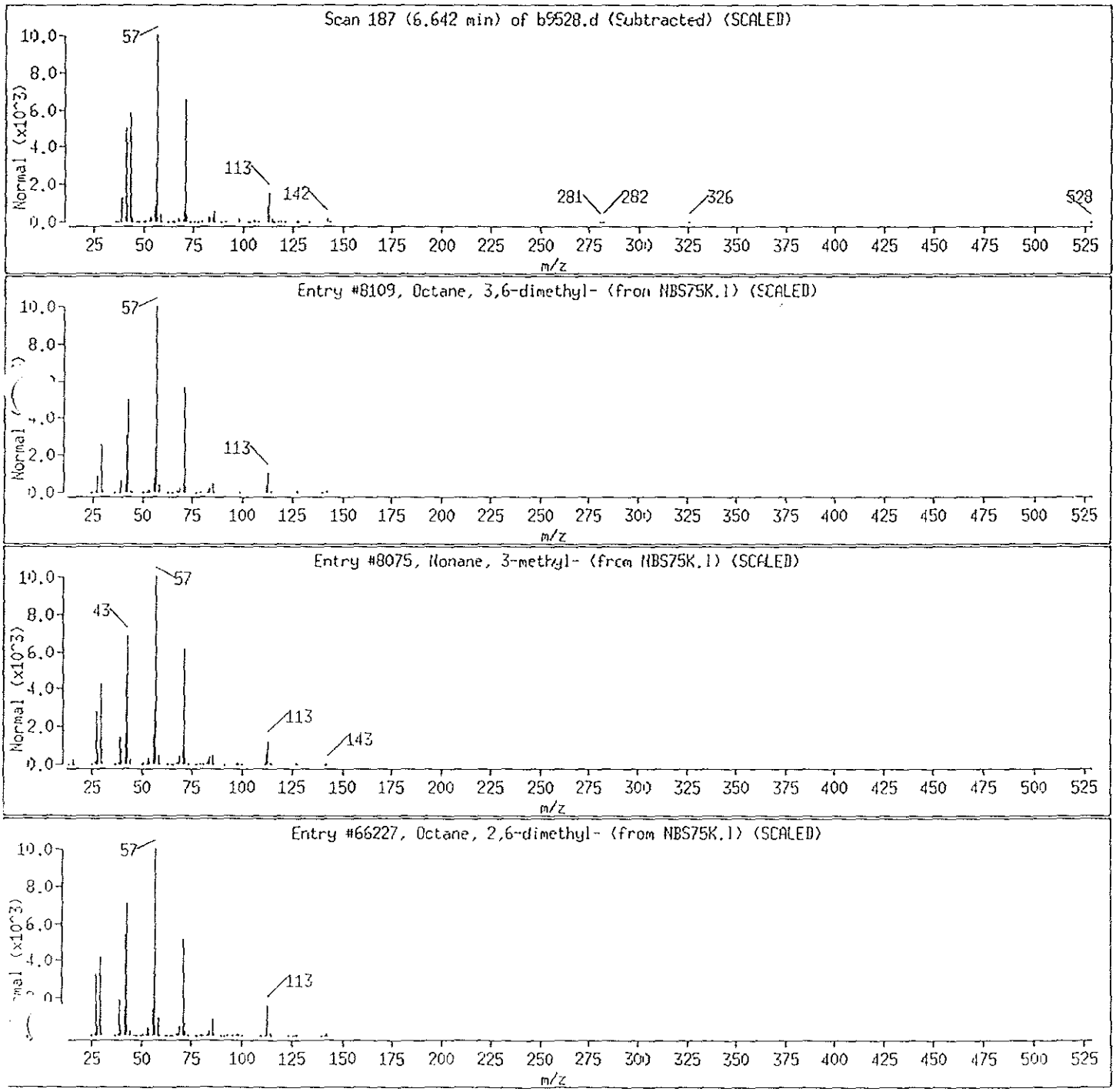
Sample Info: 17418n clj78cs004

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Octane, 3,6-dimethyl-	15869-94-0	NBS75K.1	8109	94	C10H22	142
Nonane, 3-methyl-	5911-04-6	NBS75K.1	8075	91	C10H22	142
Octane, 2,6-dimethyl-	2051-30-1	NBS75K.1	66227	80	C10H22	142



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Date : 19-JAN-96 16:59

Client ID:

Instrument: msb.i

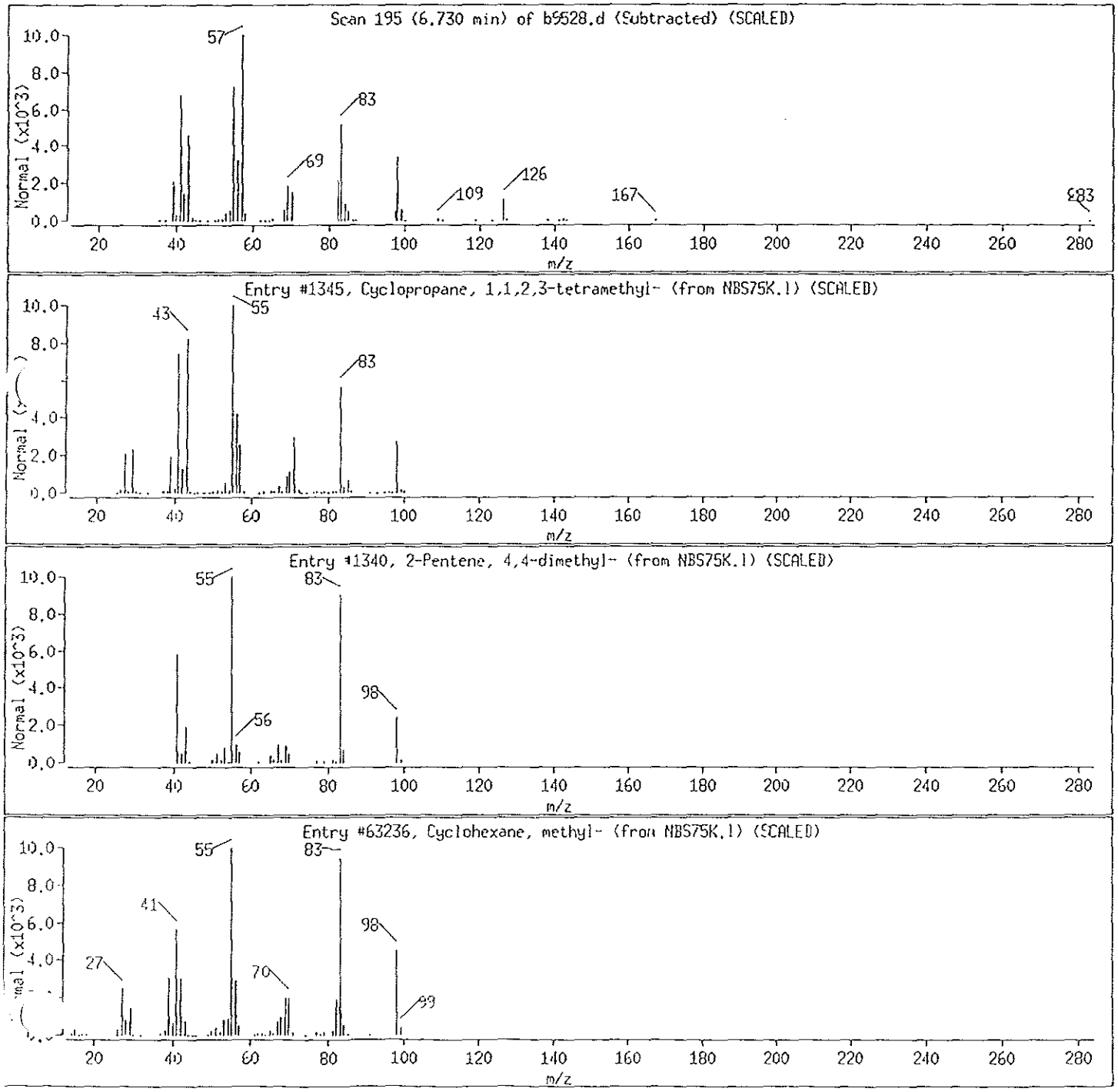
Sample Info: 17418n clj78cs004

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclopropane, 1,1,2,3-tetramethyl-	74752-93-5	NBS75K.l	1345	43	C7H14	98
2-Pentene, 4,4-dimethyl-	26232-98-4	NBS75K.l	1340	43	C7H14	98
Cyclohexane, methyl-	108-87-2	NBS75K.l	63236	43	C7H14	98



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Date : 19-JAN-96 16:59

Client ID:

Instrument: msb.i

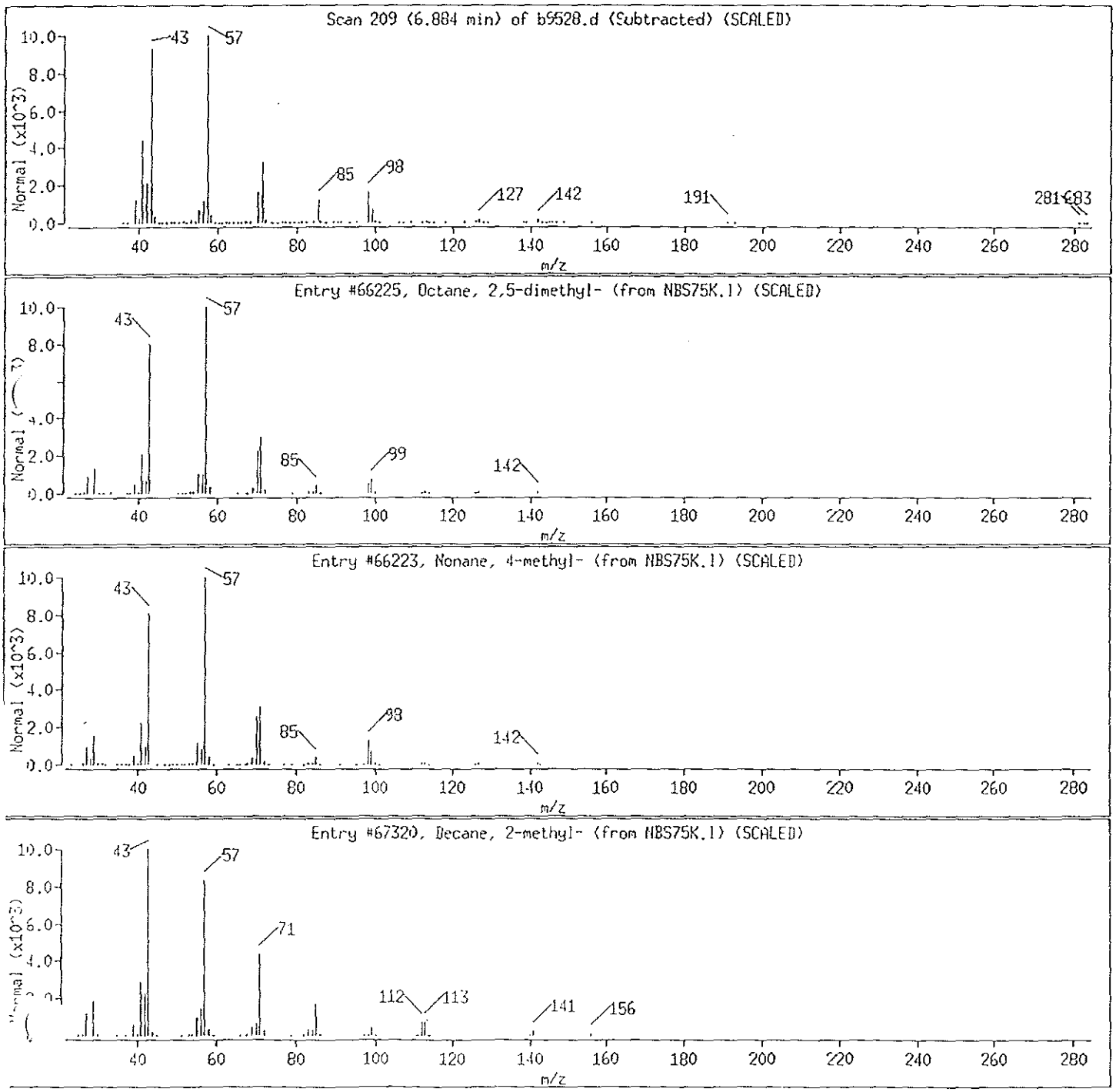
Sample Info: 17418n clj78cs004

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Octane, 2,5-dimethyl-	15869-89-3	NBS75K.1	66225	72	C10H22	142
Nonane, 4-methyl-	17301-94-9	NBS75K.1	66223	72	C10H22	142
Decane, 2-methyl-	6975-98-0	NBS75K.1	67320	59	C11H24	156



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Date : 19-JAN-96 16:59

Client ID:

Instrument: msb.i

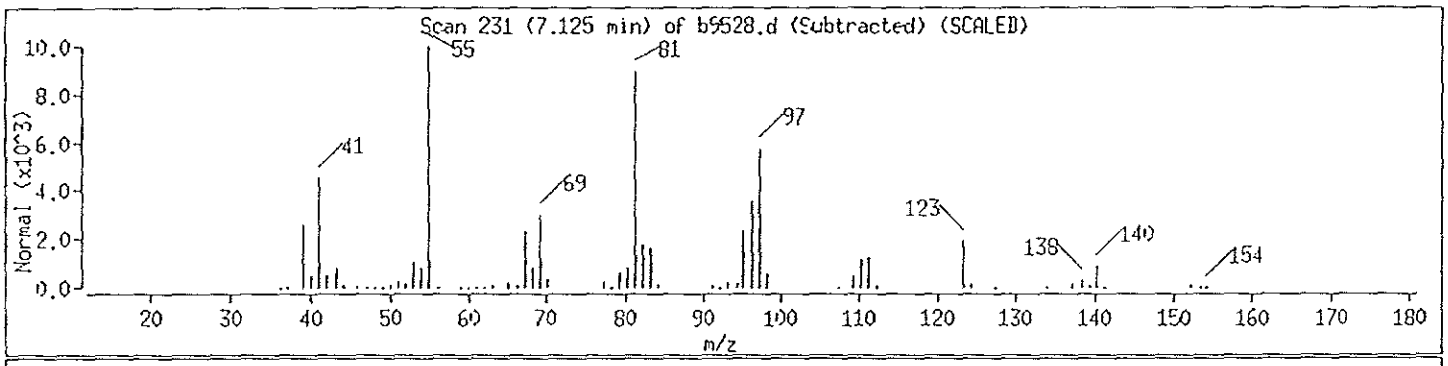
Sample Info: 17418n clj78cs004

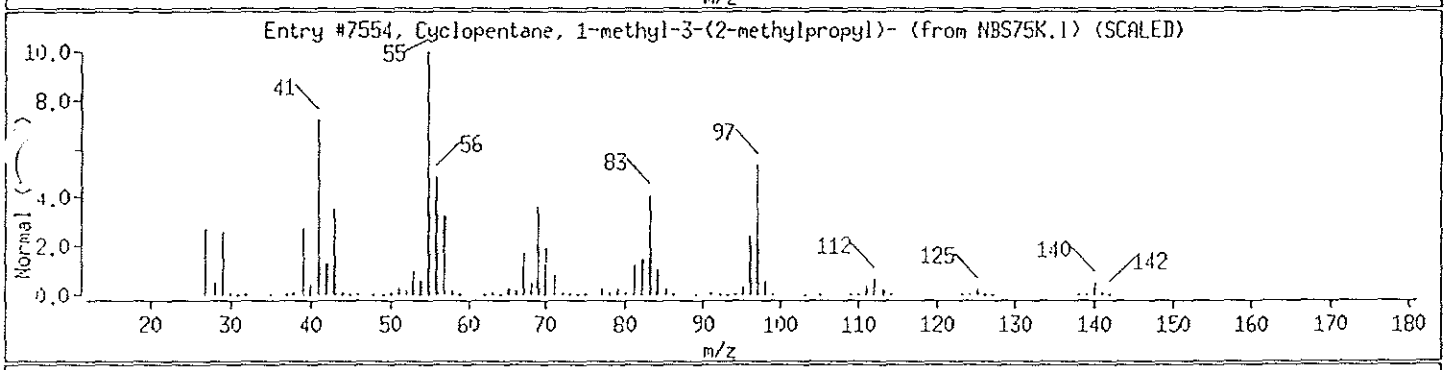
Operator: K. Bigelow

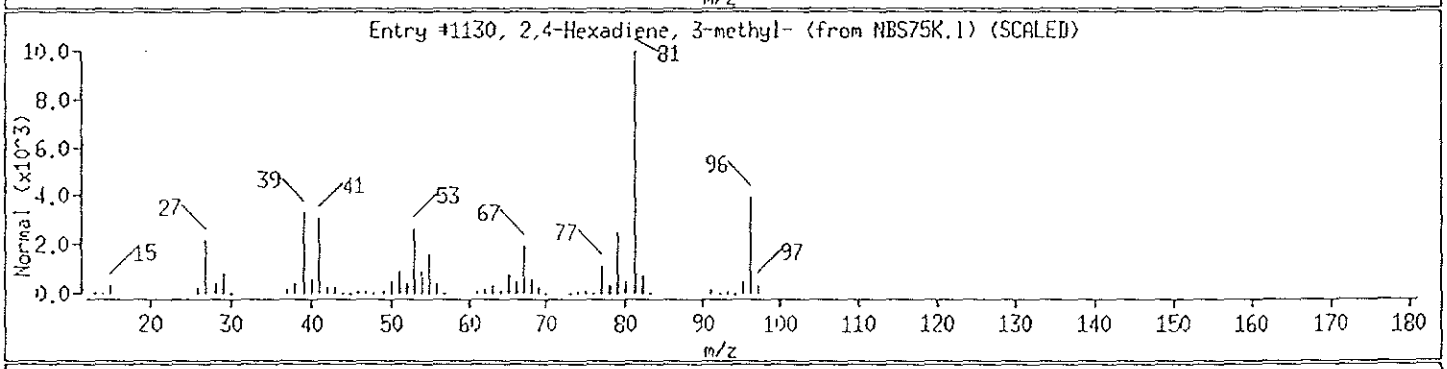
Column phase: J&W DB-5

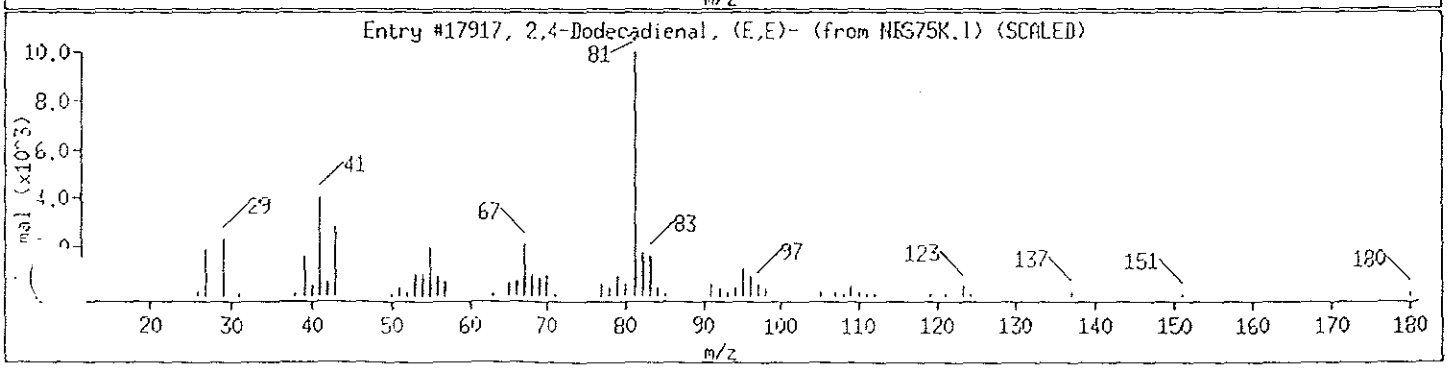
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclopentane, 1-methyl-3-(2-methylpropyl	29053-04-1	NBS75K.1	7554	41	C10H20	140
2,4-Hexadiene, 3-methyl-	28823-42-9	NBS75K.1	1130	38	C7H12	96
2,4-Dodecadienal, (E,E)-	21662-16-8	NBS75K.1	17917	38	C12H200	180









Data File: /chem/aux/msb.i/b011996.b/b9528.d

Date : 19-JAN-96 16:59

Client ID:

Instrument: msb.i

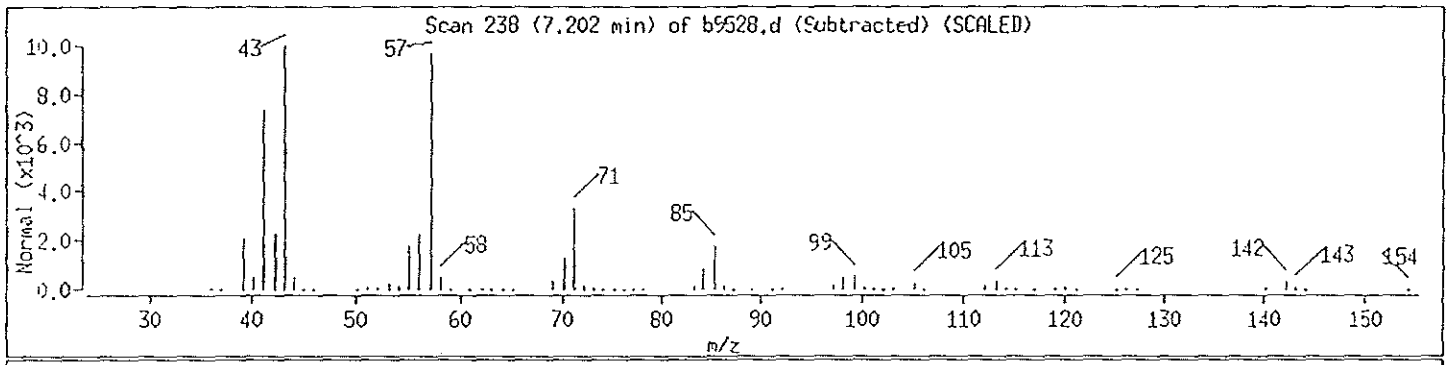
Sample Info: 17418n clj78cs004

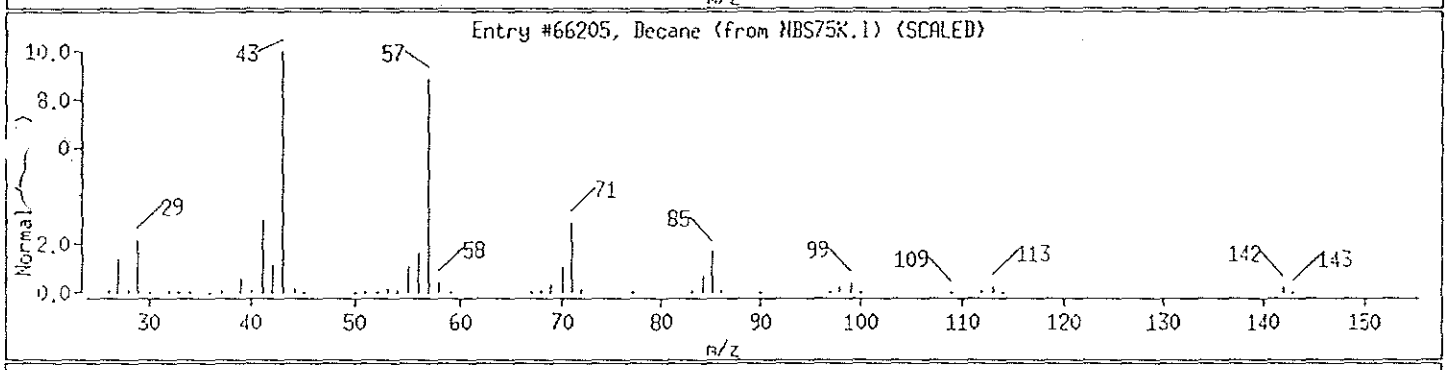
Operator: K. Bigelow

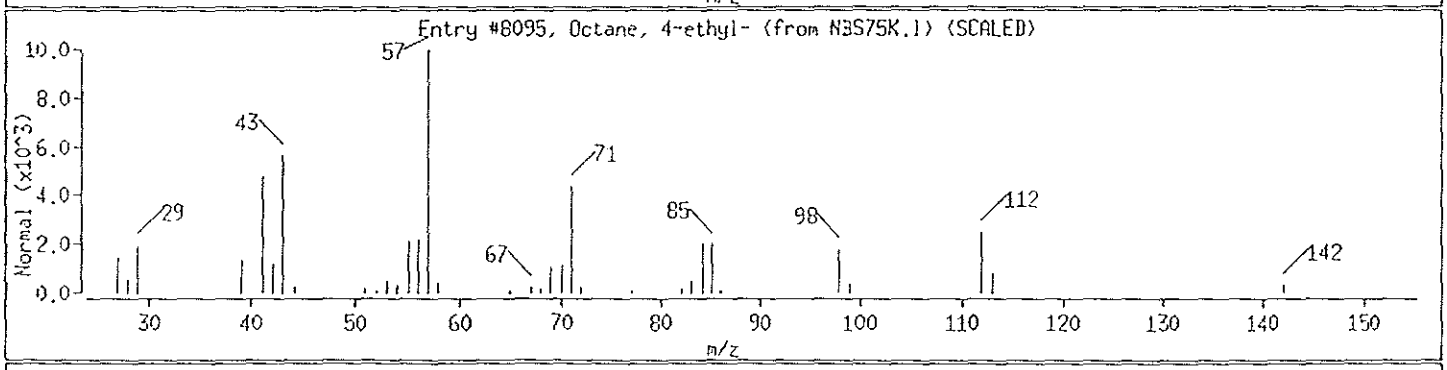
Column phase: J&W DB-5

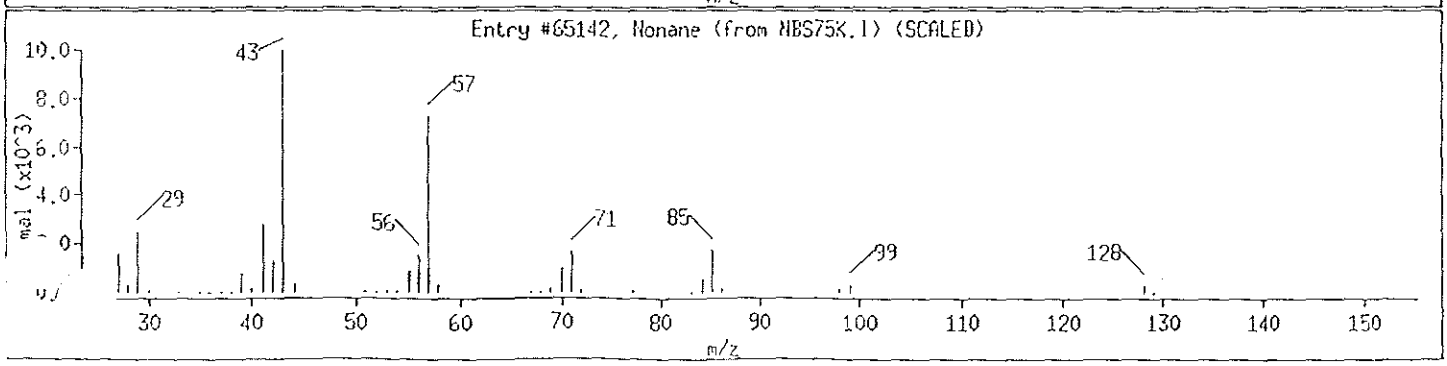
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decane	124-18-5	NBS75K.1	66205	93	C10H22	142
Octane, 4-ethyl-	15869-86-0	NBS75K.1	8095	72	C10H22	142
Nonane	111-84-2	NBS75K.1	65142	64	C9H20	128









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Date : 19-JAN-96 16:59

Client ID:

Instrument: msb.i

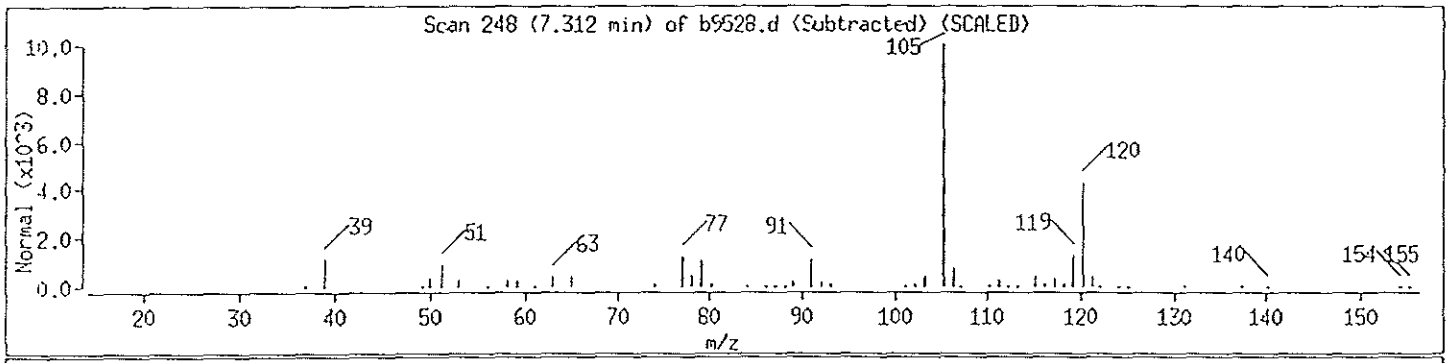
Sample Info: 17418n clj78cs004

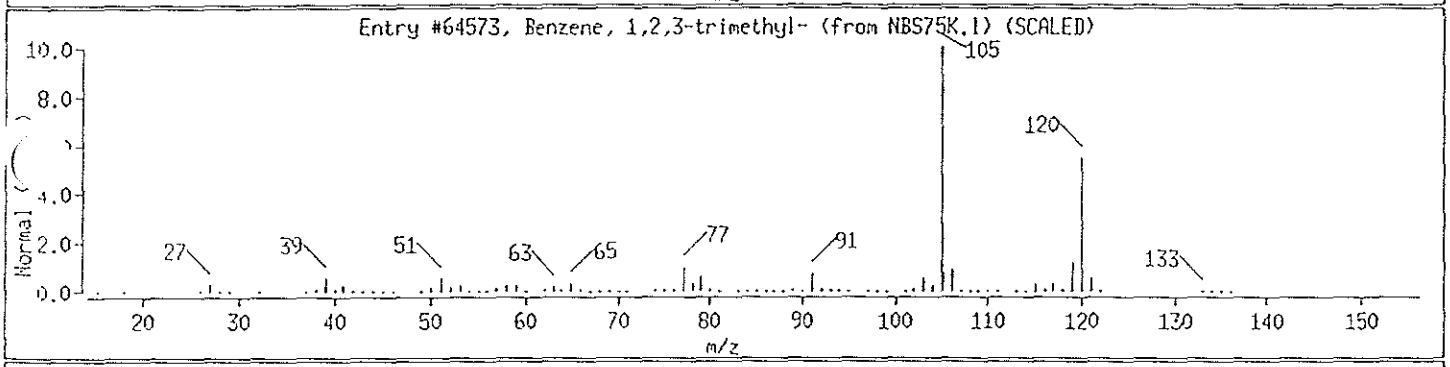
Operator: K. Bigelow

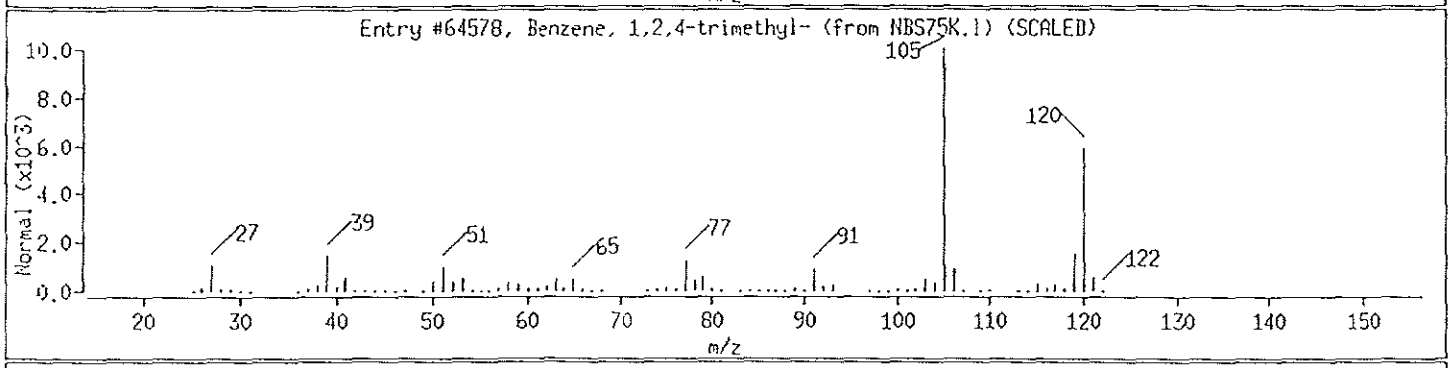
Column phase: J&W DB-5

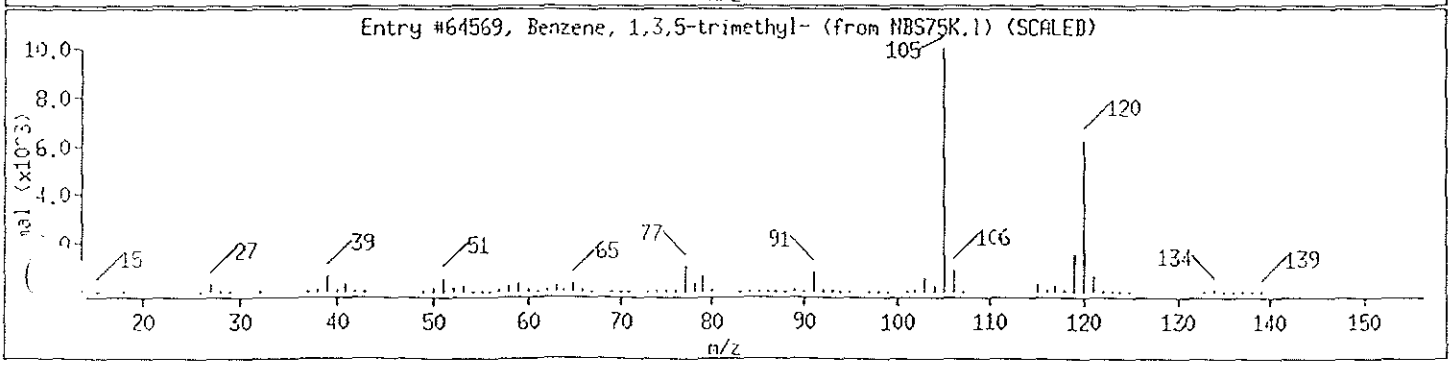
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1,2,3-trimethyl-	526-73-8	NBS75K.l	64573	95	C9H12	120
Benzene, 1,2,4-trimethyl-	95-63-6	NBS75K.l	64578	93	C9H12	120
Benzene, 1,3,5-trimethyl-	108-67-8	NBS75K.l	64569	93	C9H12	120









Data File: /chem/aux/msb.i/b011996.b/b9528.d

Date : 19-JAN-96 16:59

Client ID:

Instrument: msb.i

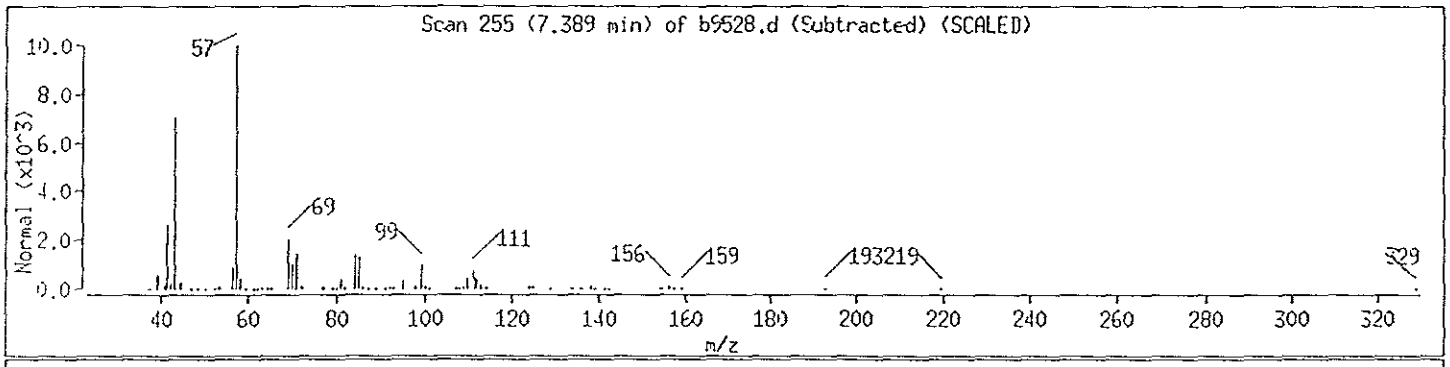
Sample Info: 17418n clj78cs004

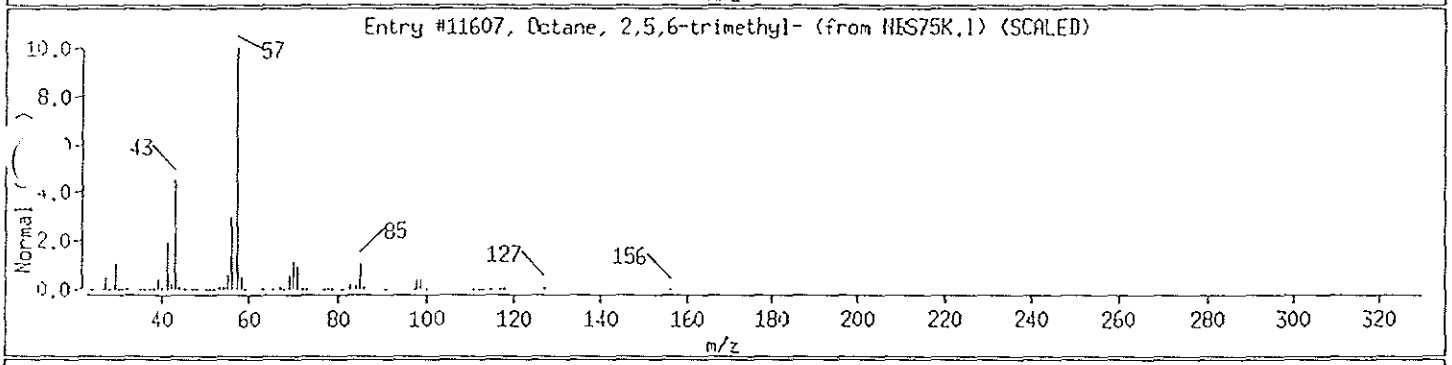
Operator: K. Bigelow

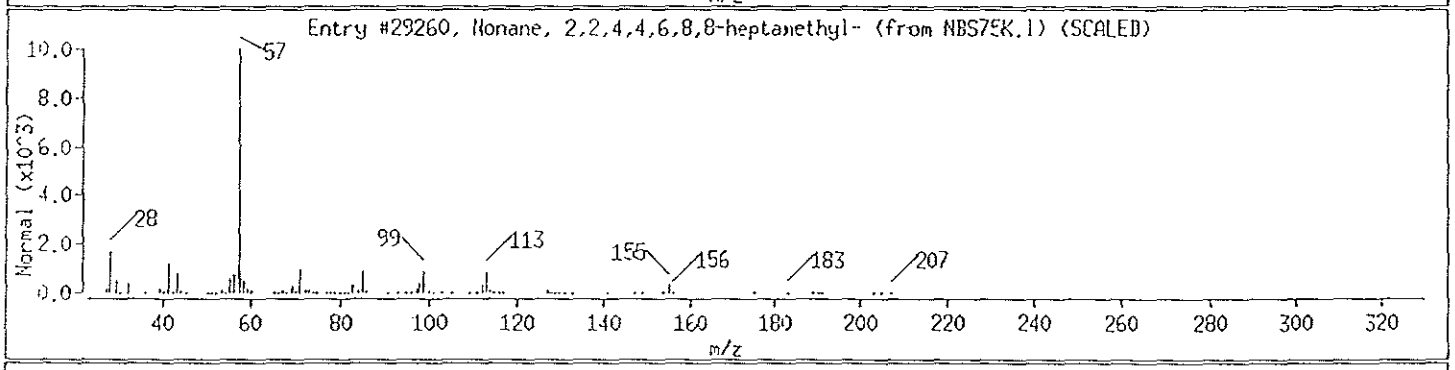
Column phase: J&W DB-5

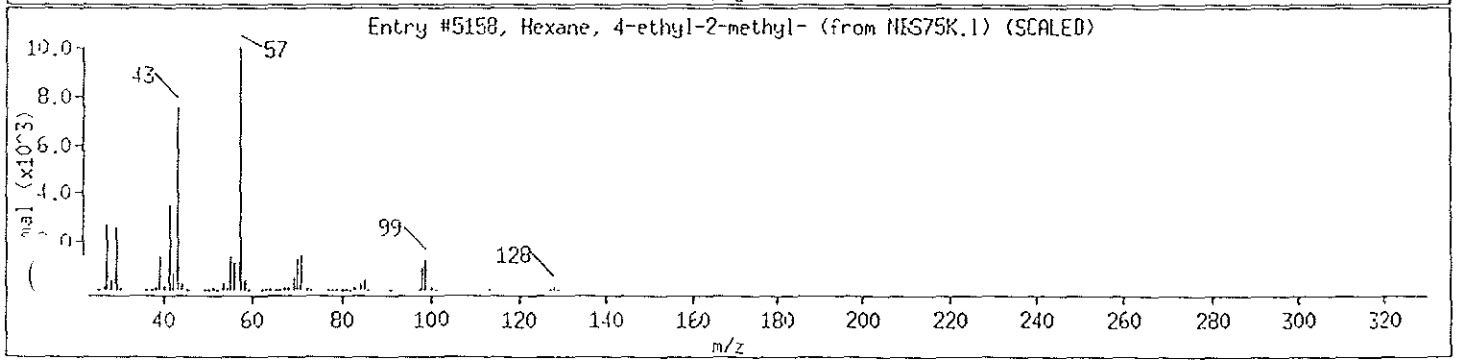
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Octane, 2,5,6-trimethyl-	62016-14-2	NBS75K.l	11607	53	C11H24	156
Nonane, 2,2,4,4,6,8,8-heptamethyl-	4390-04-9	NBS75K.l	29260	50	C16H34	226
Hexane, 4-ethyl-2-methyl-	3074-75-7	NBS75K.l	5158	47	C9H20	128









Data File: /chem/aux/msb.i/b011996.b/b9528.d

Date : 19-JAN-96 16:59

Client ID:

Instrument: msb.i

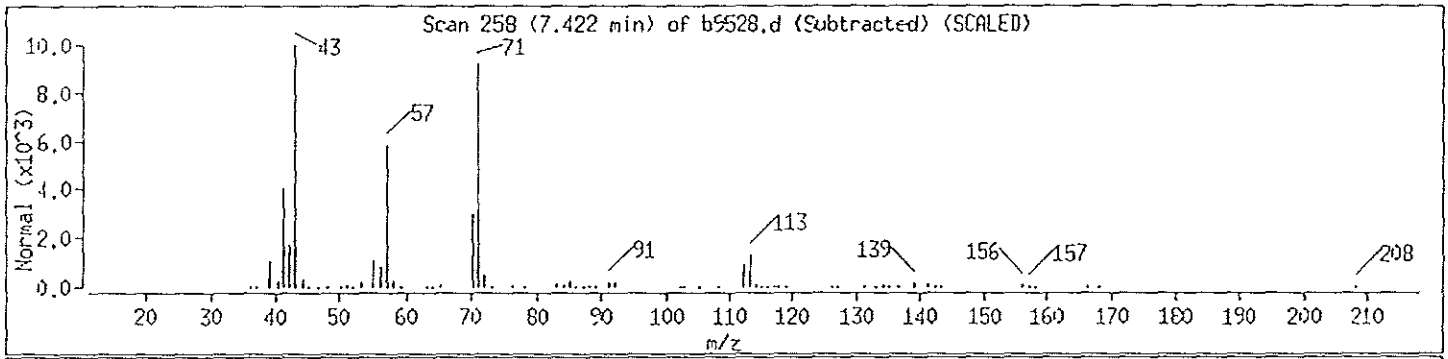
Sample Info: 17418n clj78cs004

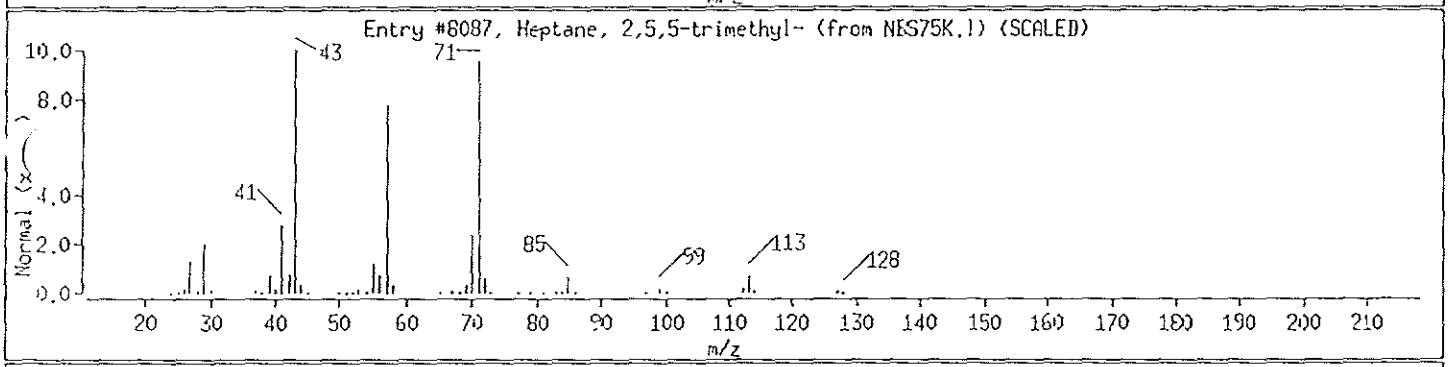
Operator: K. Bigelow

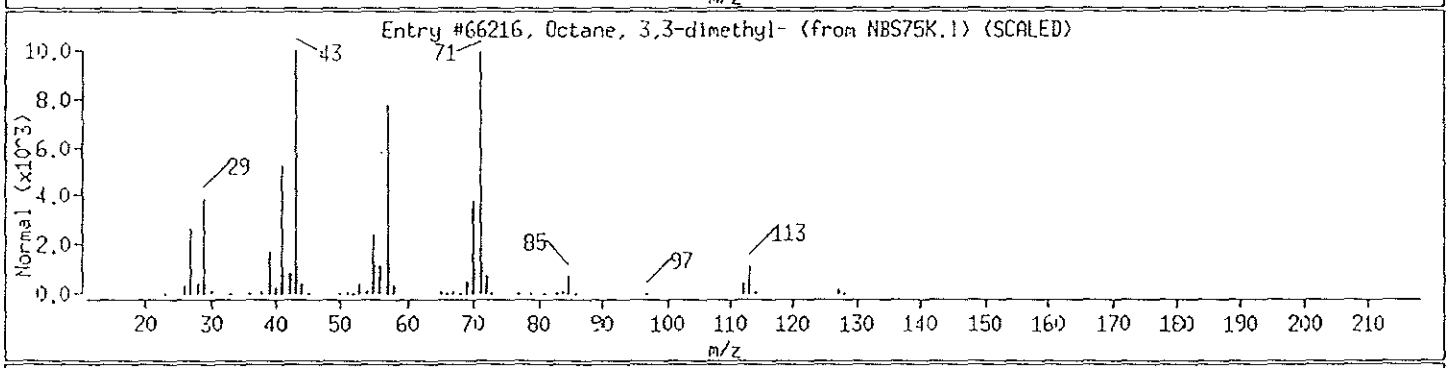
Column phase: J&W DB-5

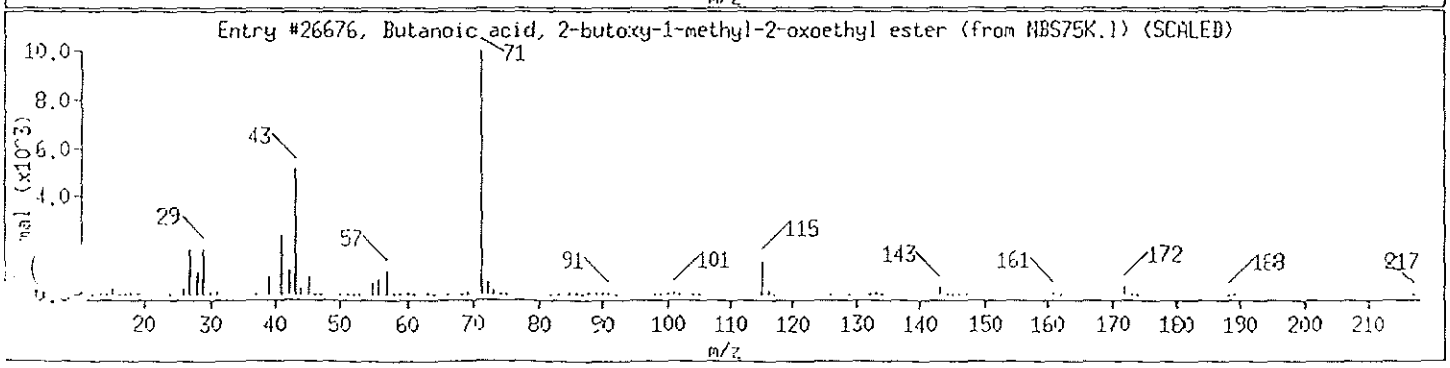
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Heptane, 2,5,5-trimethyl-	1189-99-7	NBS75K.l	8087	78	C10H22	142
Octane, 3,3-dimethyl-	4110-44-5	NBS75K.l	66216	78	C10H22	142
Butanoic acid, 2-butoxy-1-methyl-2-oxoet	7492-70-8	NBS75K.l	26676	59	C11H2004	216









Data File: /chem/aux/msb.i/b011996.b/b9528.d

Date : 19-JAN-96 16:59

Client ID:

Instrument: msb.i

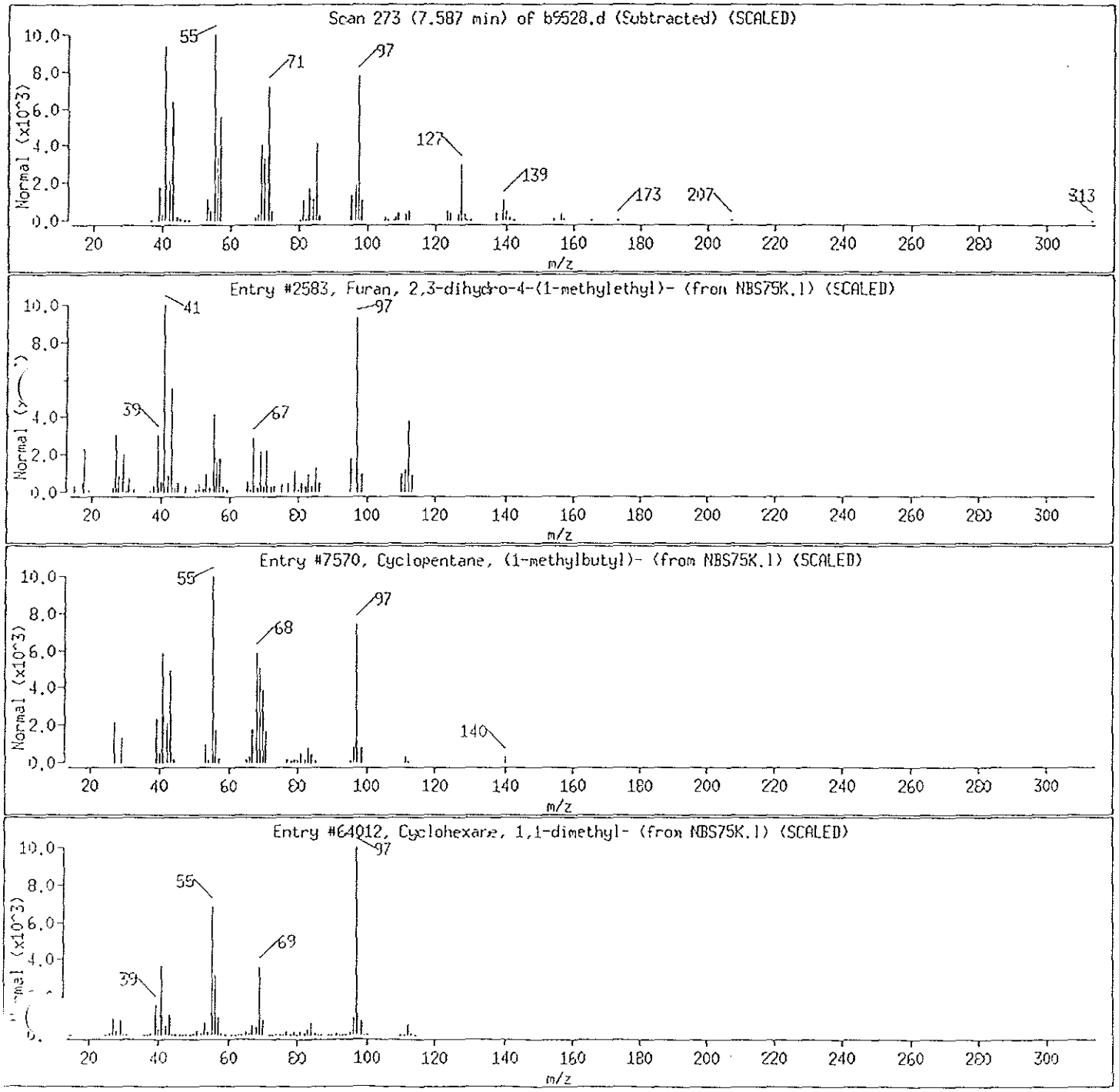
Sample Info: 17418n clj78cs004

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Furan, 2,3-dihydro-4-(1-methylethyl)-	34314-84-6	NBS75K.l	2583	43	C7H12O	112
Cyclopentane, (1-methylbutyl)-	4737-43-3	NBS75K.l	7570	41	C10H20	140
Cyclohexane, 1,1-dimethyl-	590-66-9	NBS75K.l	64012	38	C8H16	112



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Date : 19-JAN-96 16:59

Client ID:

Instrument: msb.i

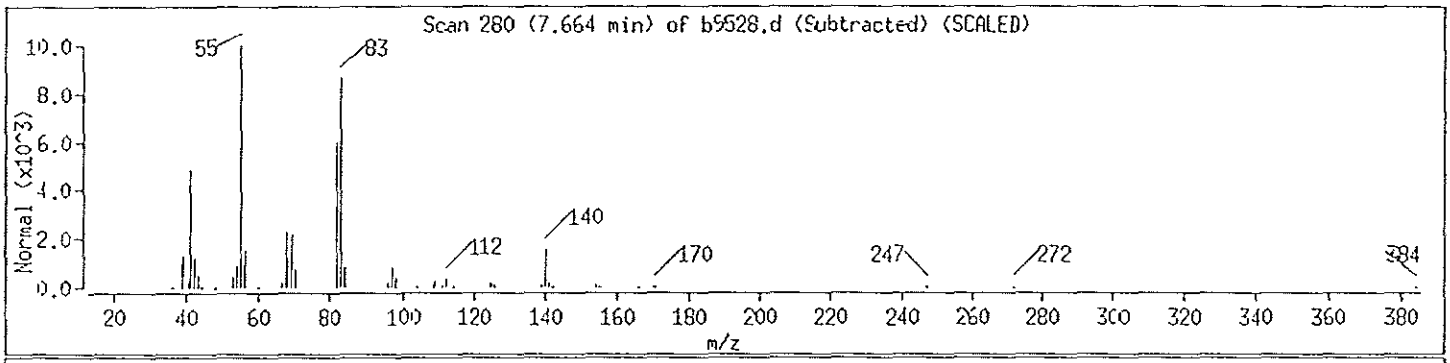
ample Info: 17418n clj78cs004

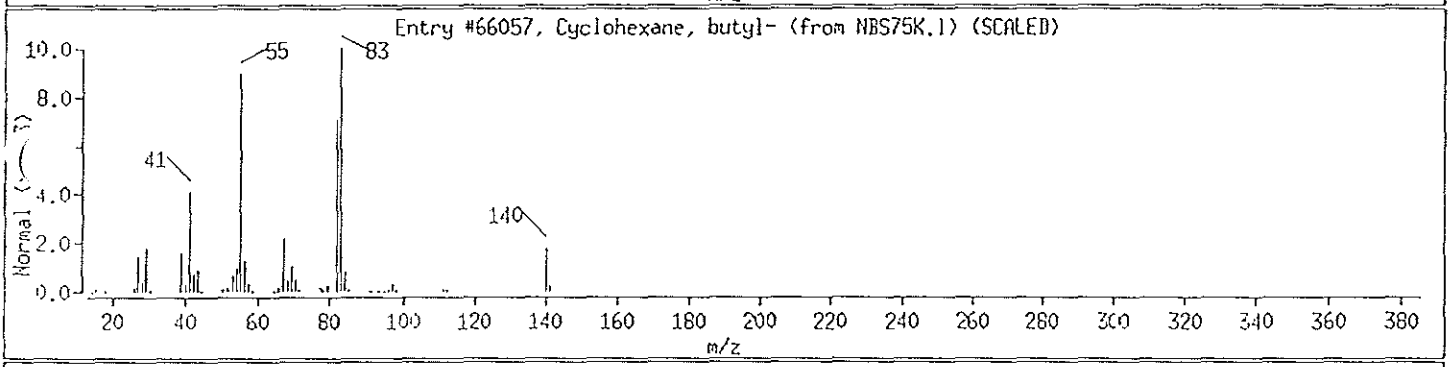
Operator: K. Bigelow

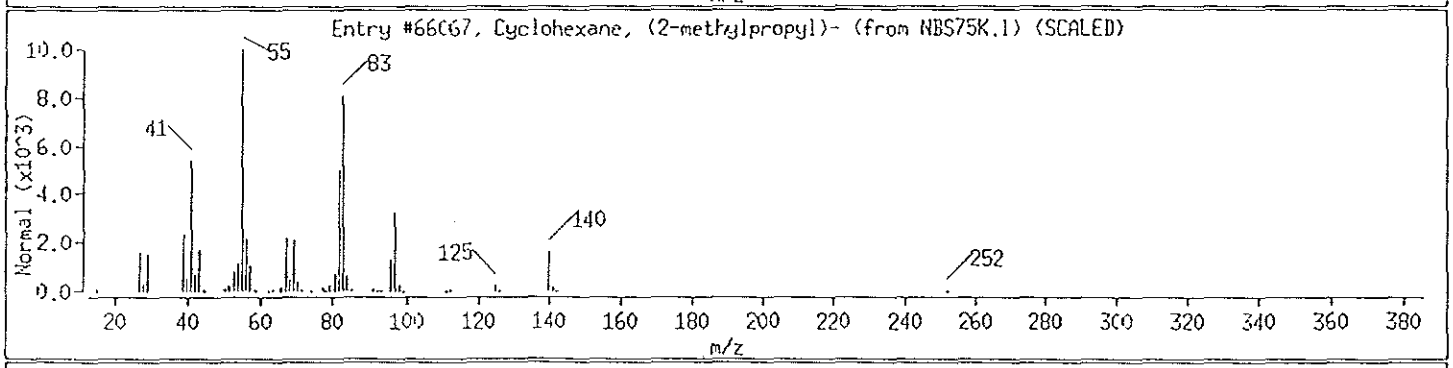
Column phase: J&W DB-5

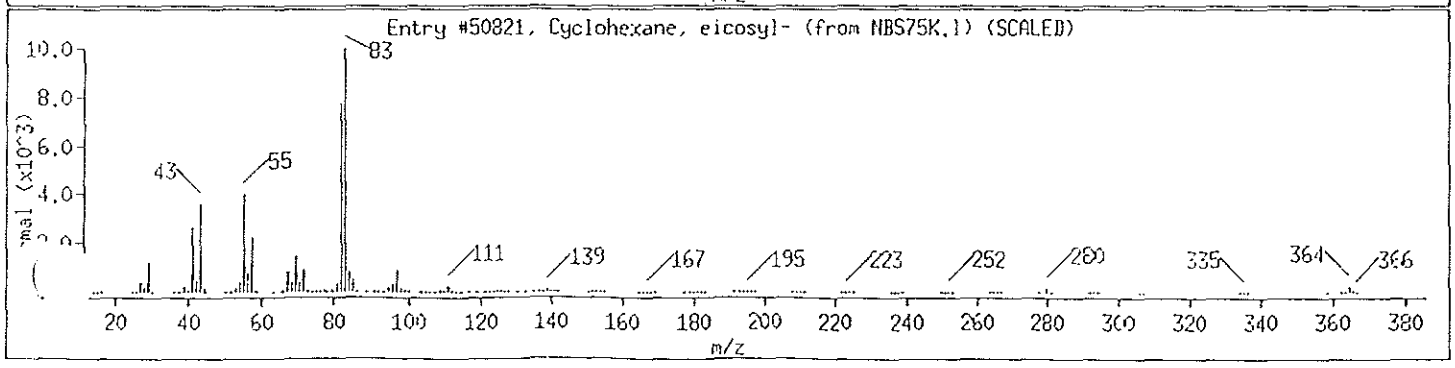
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexane, butyl-	1678-93-9	NBS75K.1	66057	90	C10H20	140
Cyclohexane, (2-methylpropyl)-	1678-98-4	NBS75K.1	66067	81	C10H20	140
Cyclohexane, eicosyl-	4443-55-4	NBS75K.1	50821	72	C26H52	364









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Date : 19-JAN-96 16:59

Client ID:

Instrument: msb.i

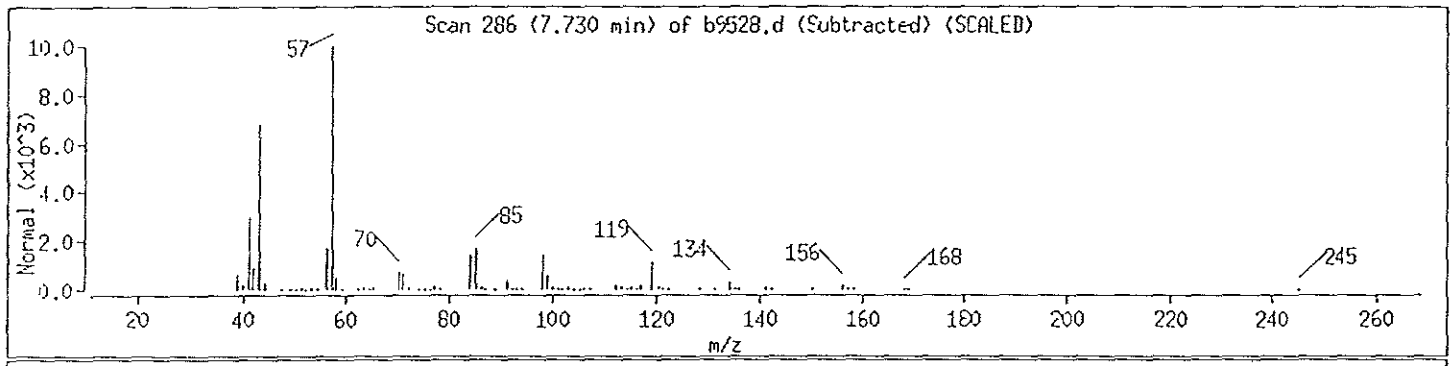
Sample Info: 17418n clj78cs004

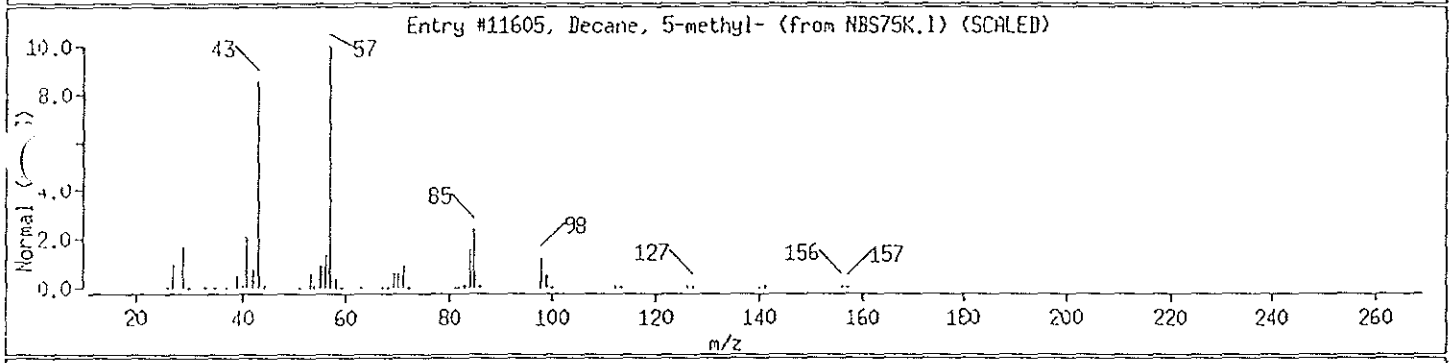
Operator: K. Bigelow

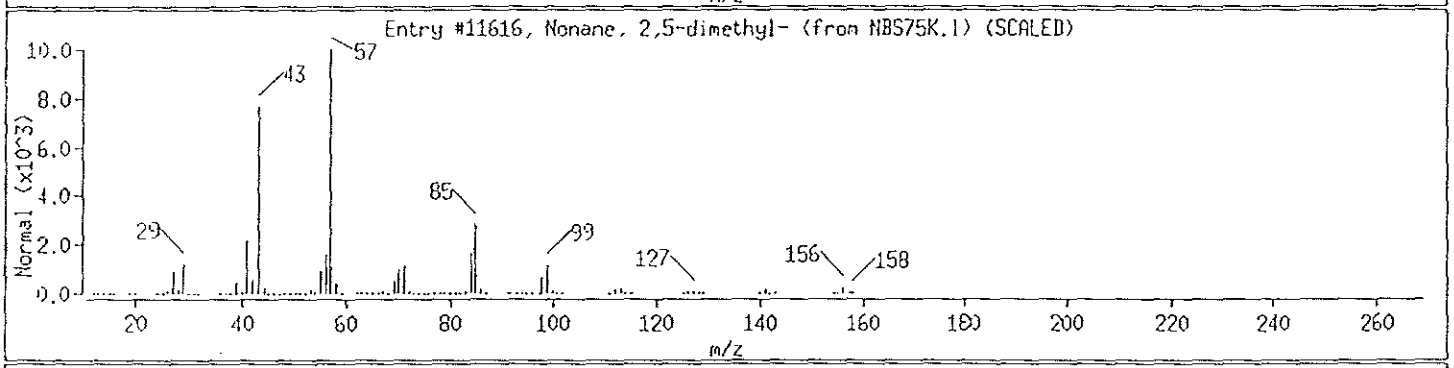
Column phase: J&W DB-5

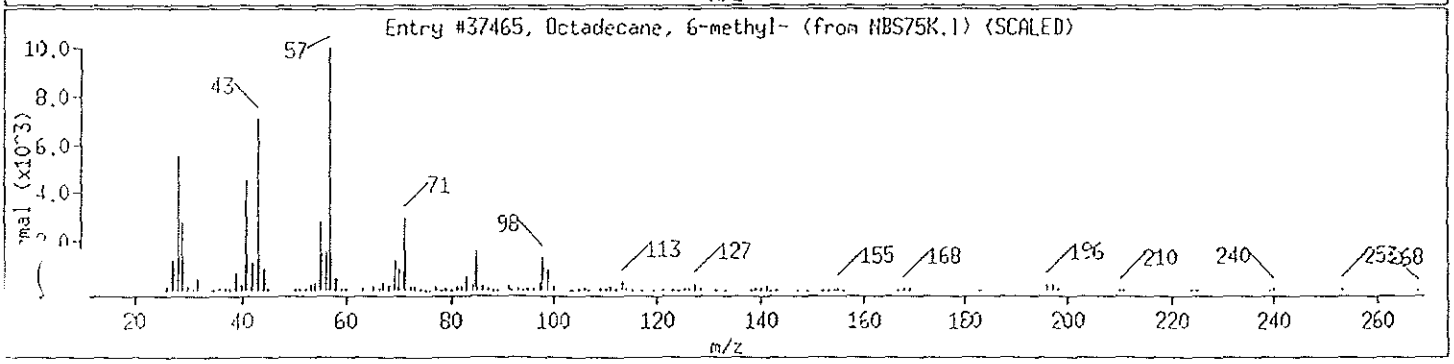
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decane, 5-methyl-	13151-35-4	NBS75K.l	11605	81	C11H24	156
Nonane, 2,5-dimethyl-	17302-27-1	NBS75K.l	11616	53	C11H24	156
Octadecane, 6-methyl-	10544-96-4	NBS75K.l	37465	50	C19H40	268









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Date : 19-JAN-96 16:59

Client ID:

Instrument: msb.i

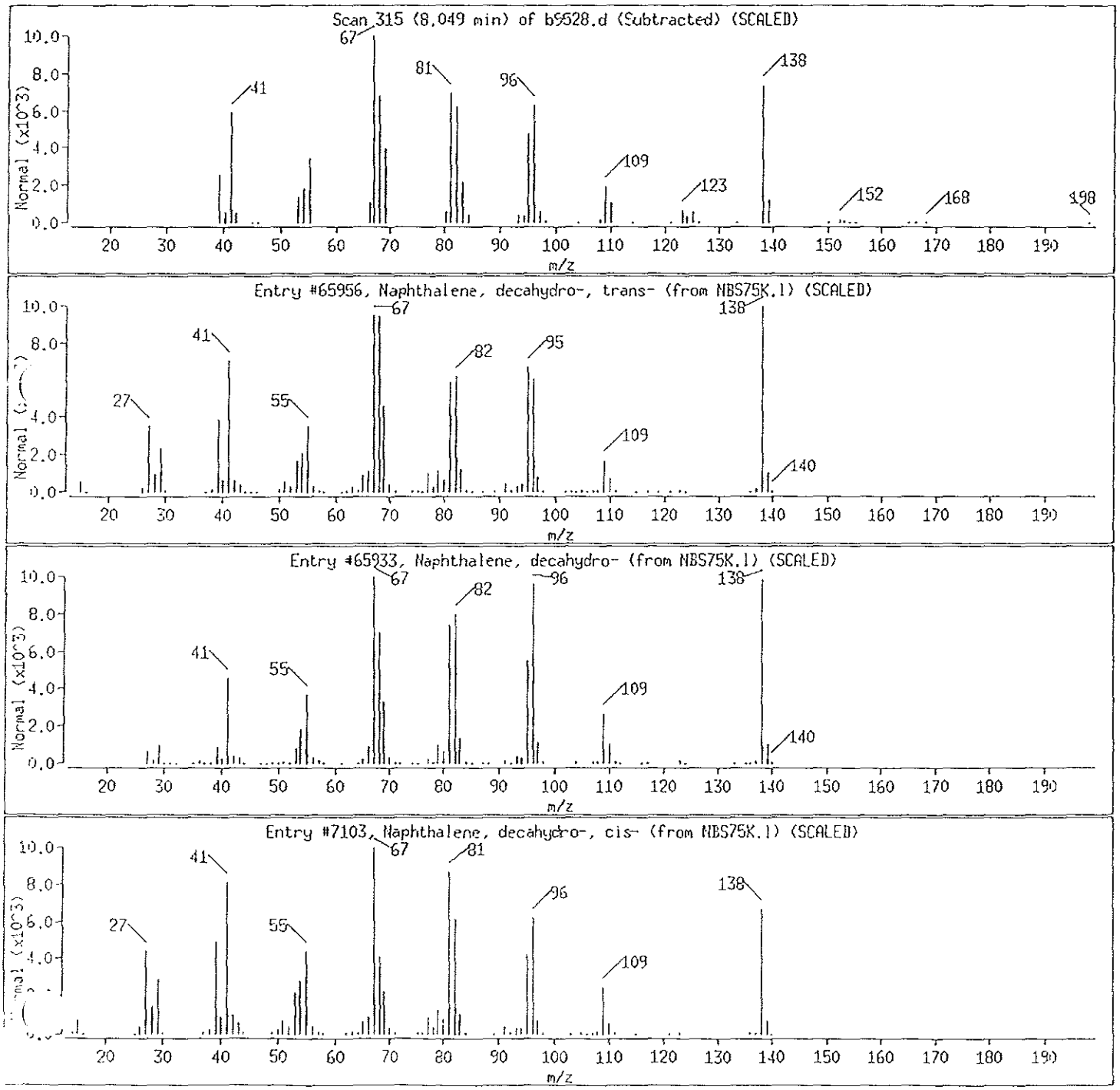
Sample Info: 17418n clj78cs004

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, decahydro-, trans-	493-02-7	NBS75K.l	65956	94	C10H18	138
Naphthalene, decahydro-	91-17-8	NBS75K.l	65933	94	C10H18	138
Naphthalene, decahydro-, cis-	493-01-6	NBS75K.l	7103	83	C10H18	138



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Date : 19-JAN-96 16:59

Client ID:

Instrument: msb.i

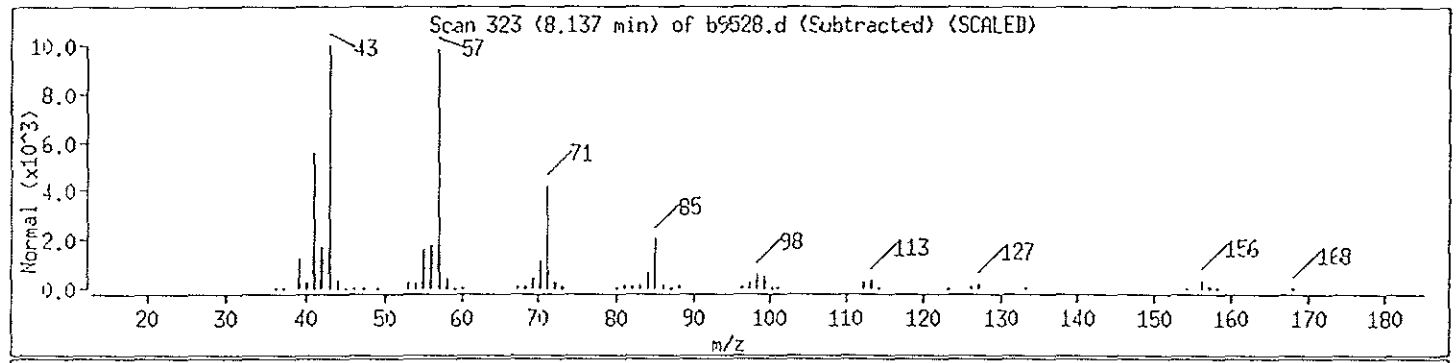
Sample Info: 17418n clj78cs004

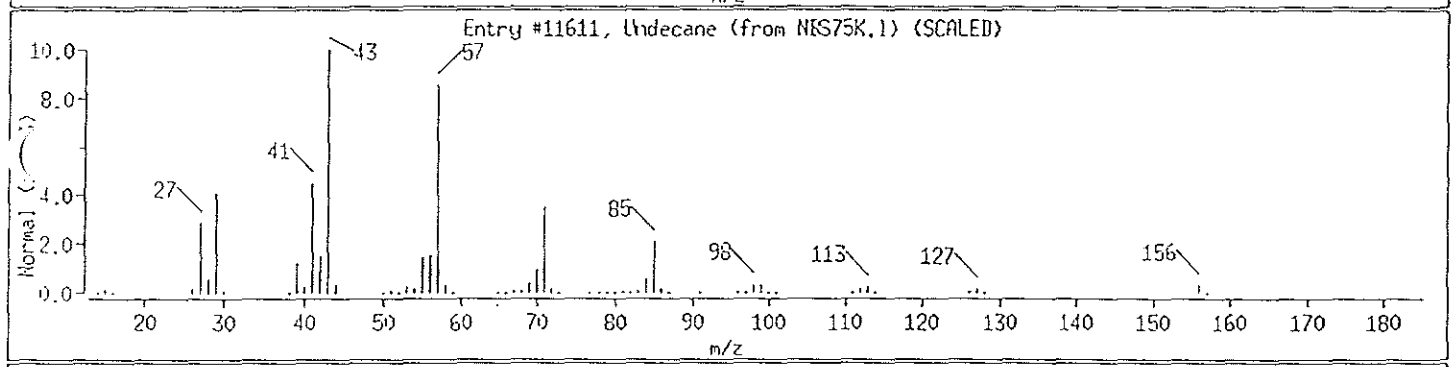
Operator: K. Bigelow

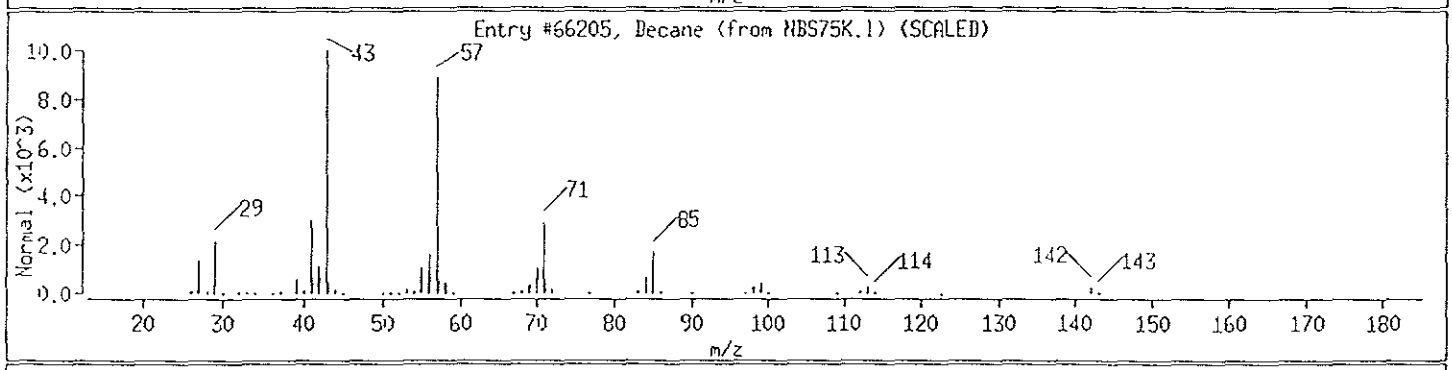
Column phase: J&W DB-5

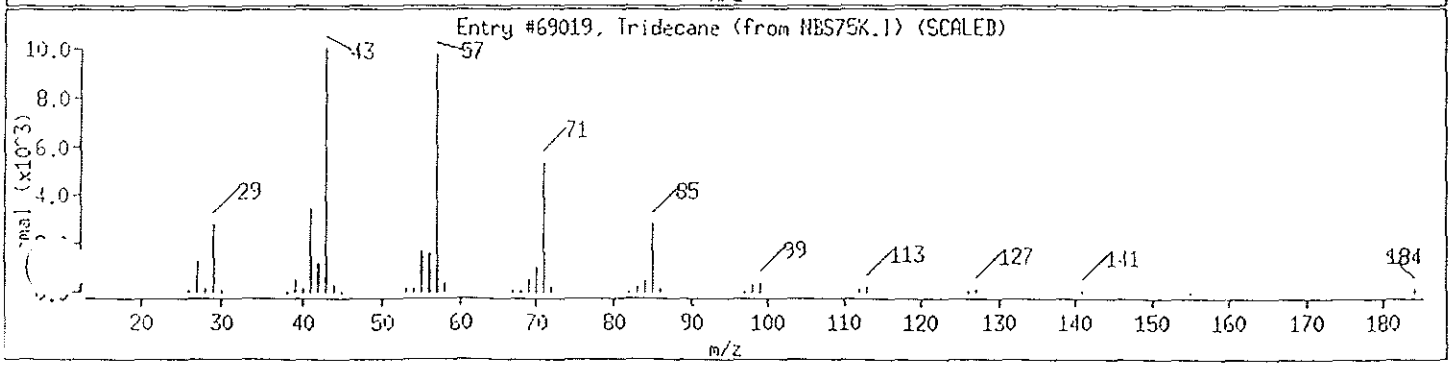
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Undecane	1120-21-4	NBS75K.l	11611	97	C11H24	156
Decane	124-18-5	NBS75K.l	66205	90	C10H22	142
Tridecane	629-50-5	NBS75K.l	69019	90	C13H28	184









Data File: /chem/aux/msb.i/b011996.b/b9528.d

Date : 19-JAN-96 16:59

Client ID:

Instrument: msb.i

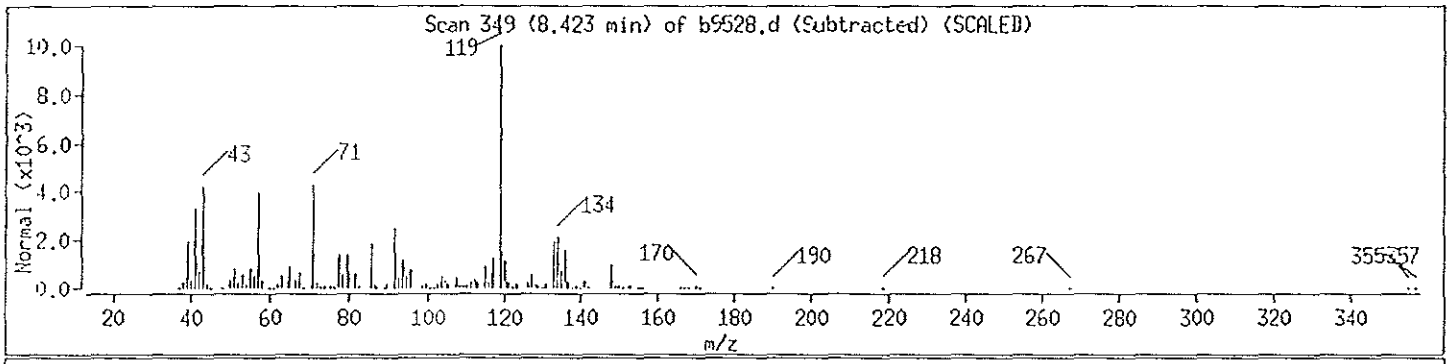
Sample Info: 17418n clj78cs004

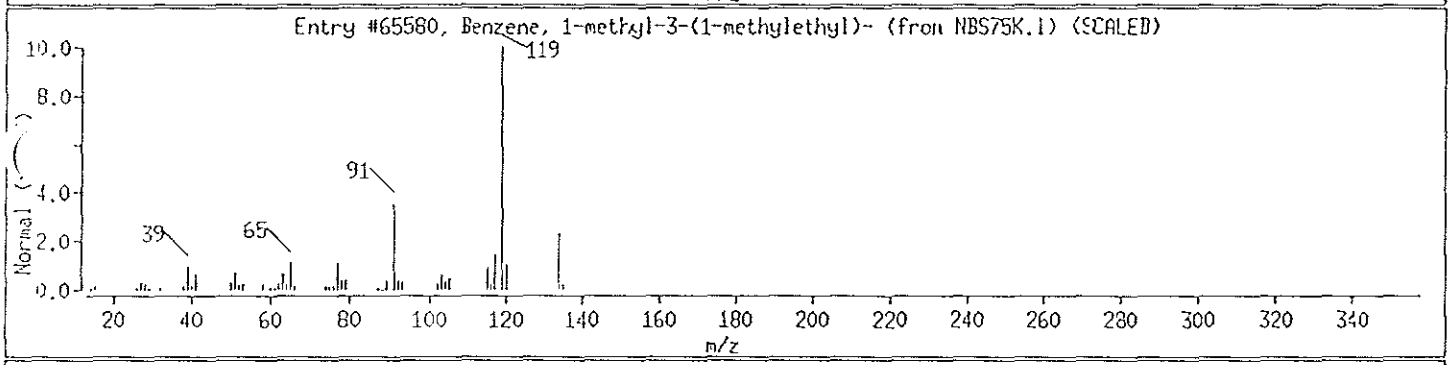
Operator: K. Bigelow

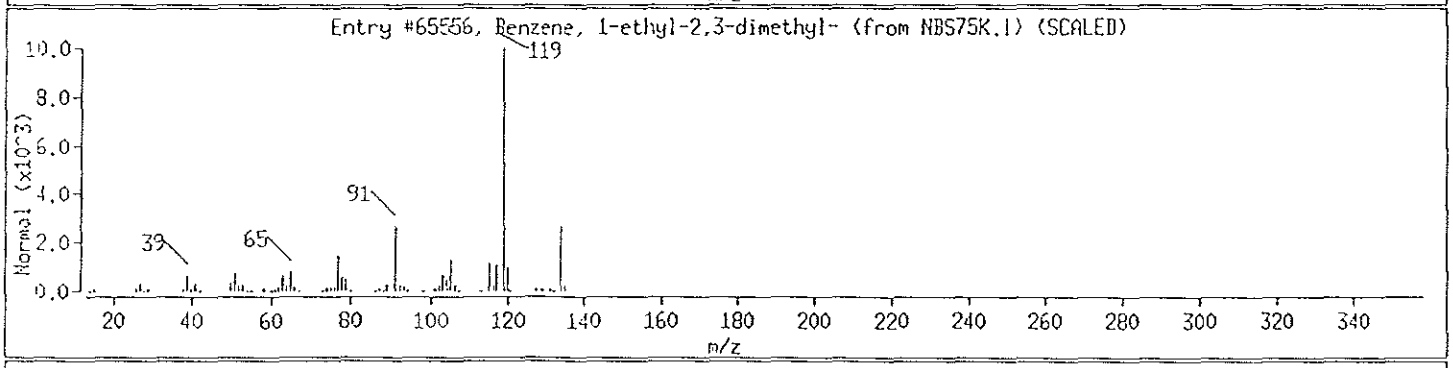
Column phase: J&W DB-5

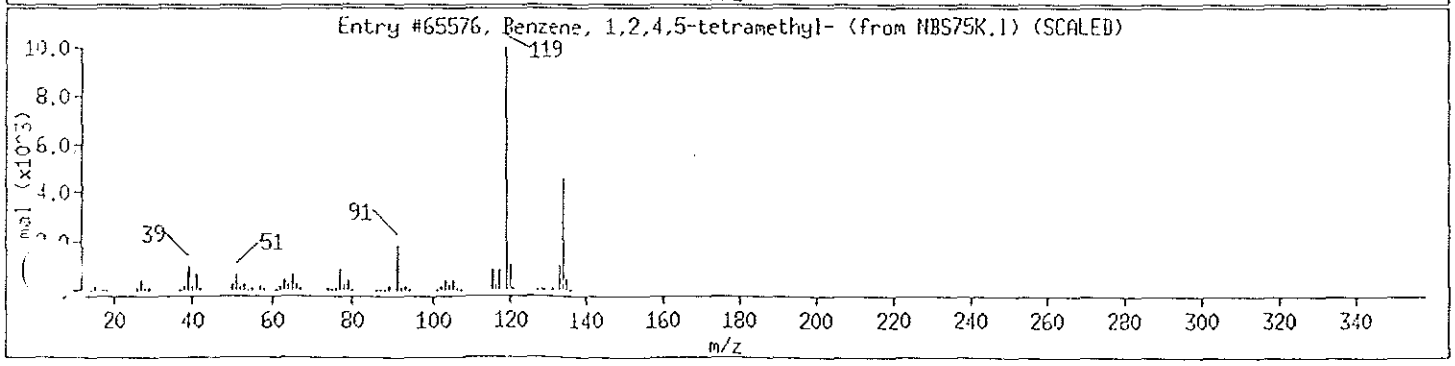
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	NBS75K.l	65580	70	C10H14	134
Benzene, 1-ethyl-2,3-dimethyl-	933-98-2	NBS75K.l	65556	70	C10H14	134
Benzene, 1,2,4,5-tetramethyl-	95-93-2	NBS75K.l	65576	60	C10H14	134









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Date : 19-JAN-96 16:59

Client ID:

Instrument: msb.i

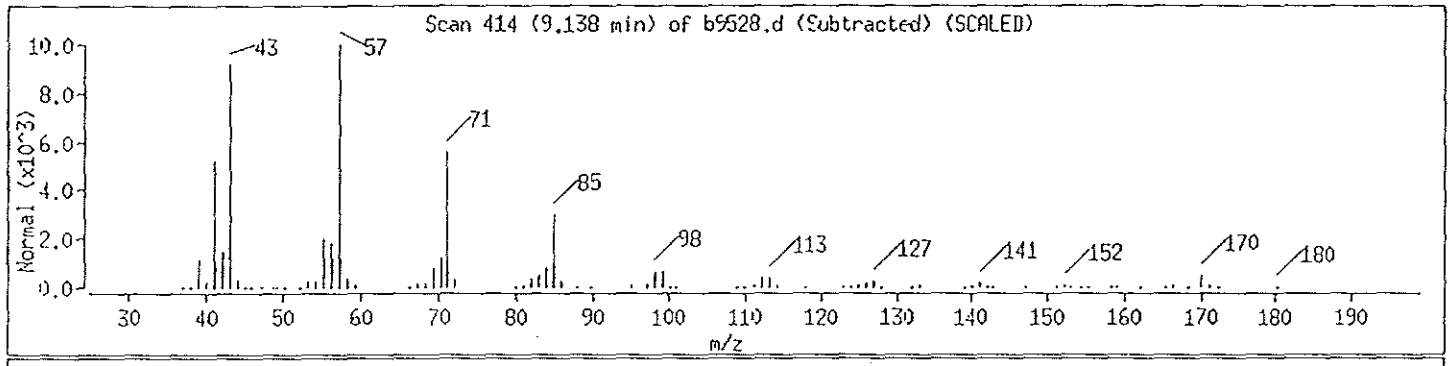
Sample Info: 17418n clj78cs004

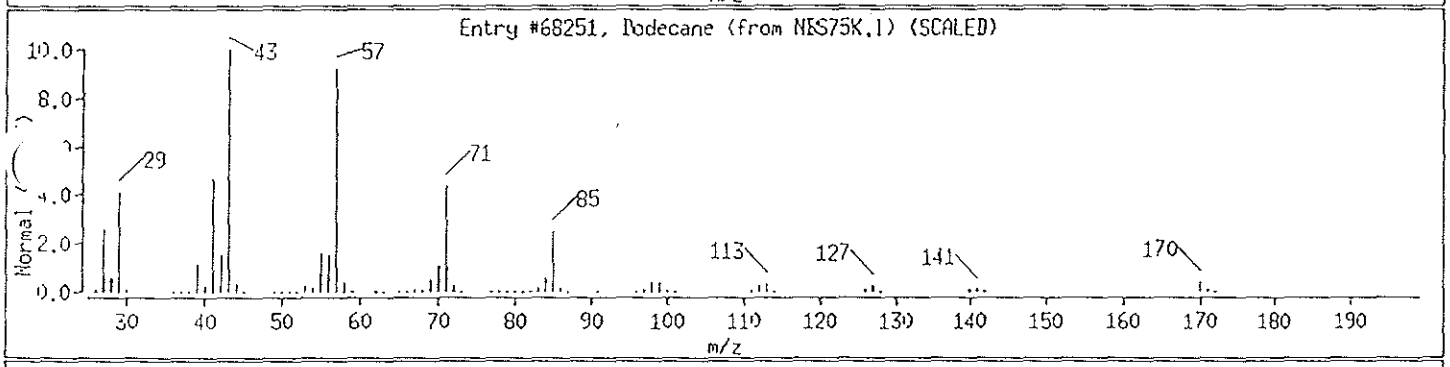
Operator: K. Bigelow

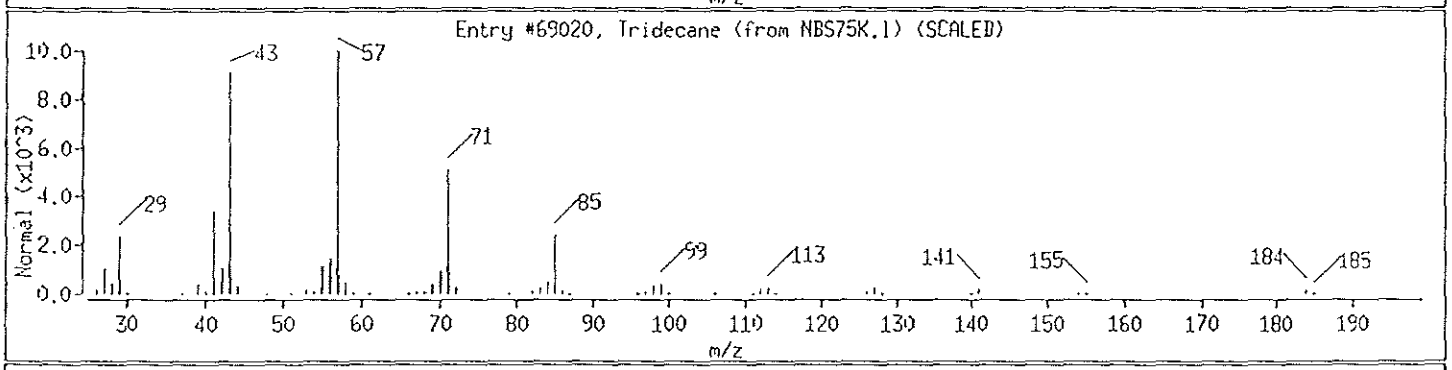
Column phase: J&W DB-5

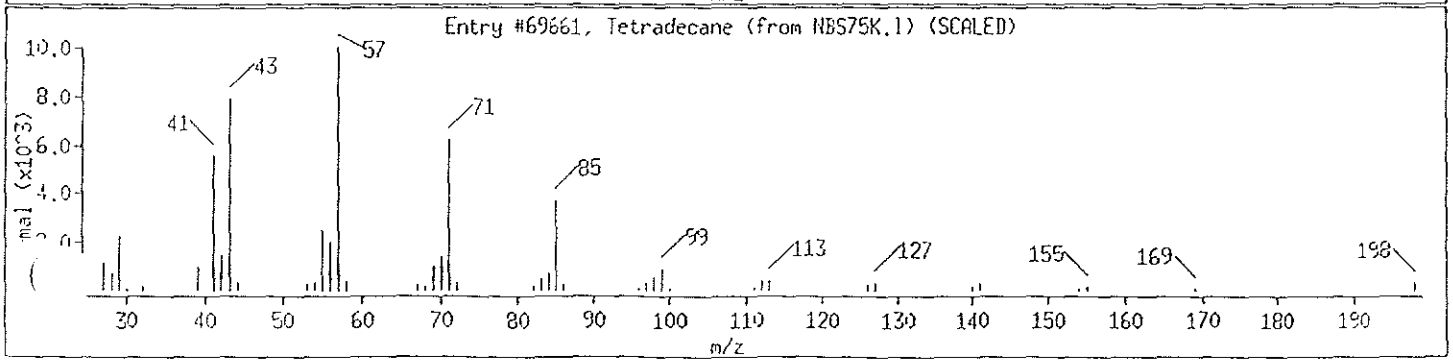
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Dodecane	112-40-3	NBS75K.1	68251	97	C12H26	170
Tridecane	629-50-5	NBS75K.1	69020	91	C13H28	184
Tetradecane	629-59-4	NBS75K.1	69661	90	C14H30	198









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Date : 19-JAN-96 16:59

Client ID:

Instrument: msb.i

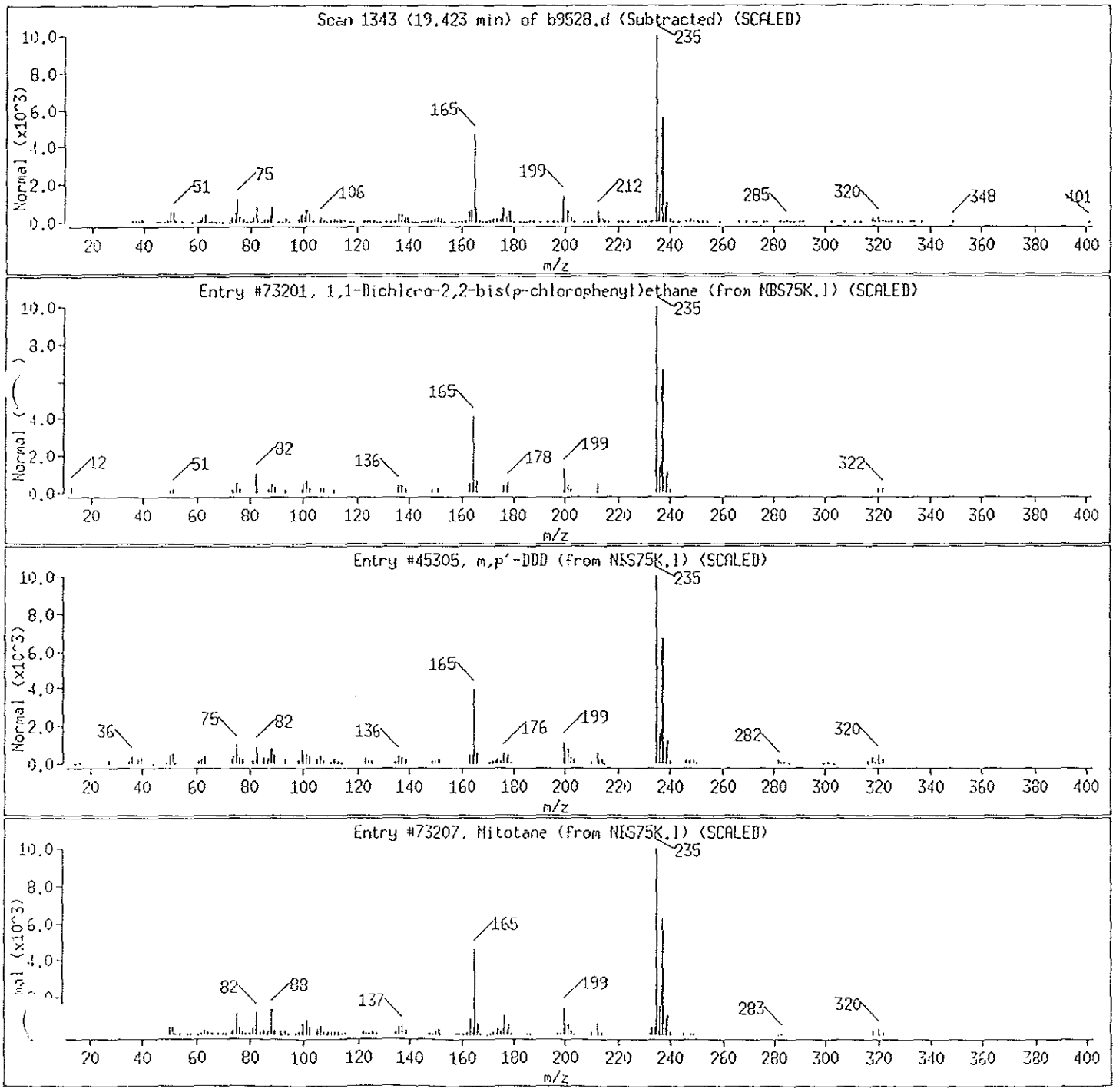
Sample Info: 17418n clj78cs004

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,1-Dichloro-2,2-bis(p-chlorophenyl)etha	72-54-8	NBS75K.1	73201	96	C14H10Cl4	318
m,p'-DDD	4329-12-8	NBS75K.1	45305	94	C14H10Cl4	318
Mitotane	53-19-0	NBS75K.1	73207	93	C14H10Cl4	318



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Date : 19-JAN-96 16:59

Client ID:

Instrument: msb.i

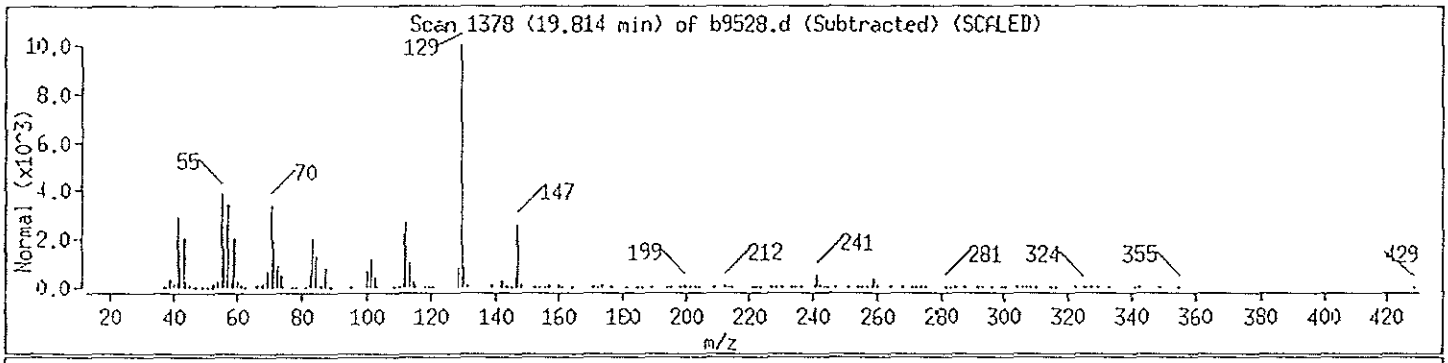
Sample Info: 17418n clj78cs004

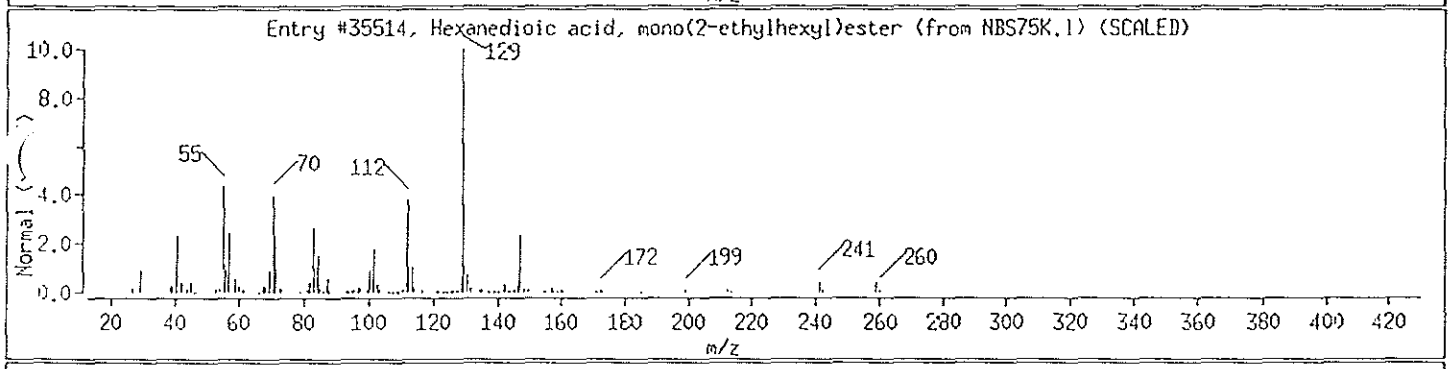
Operator: K. Bigelow

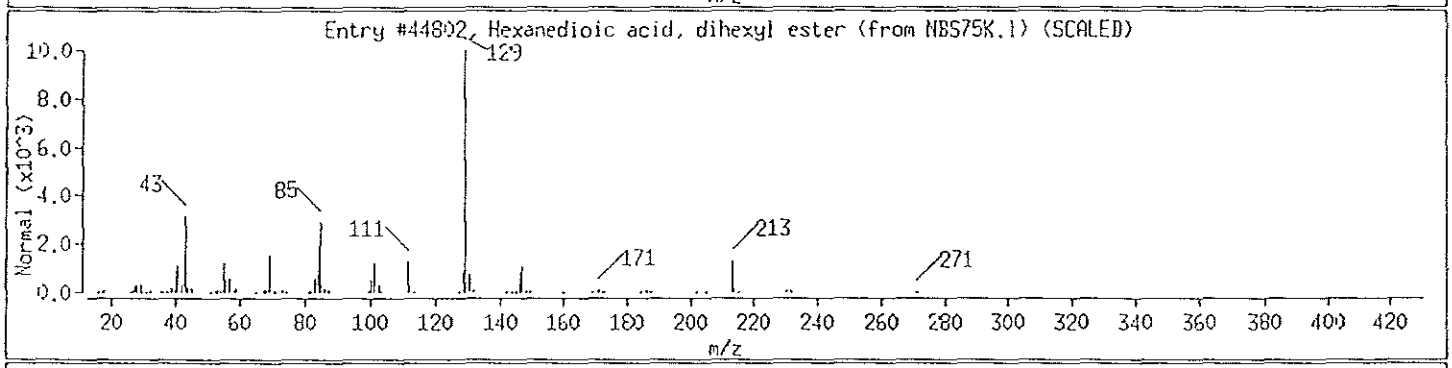
Column phase: J&W DB-5

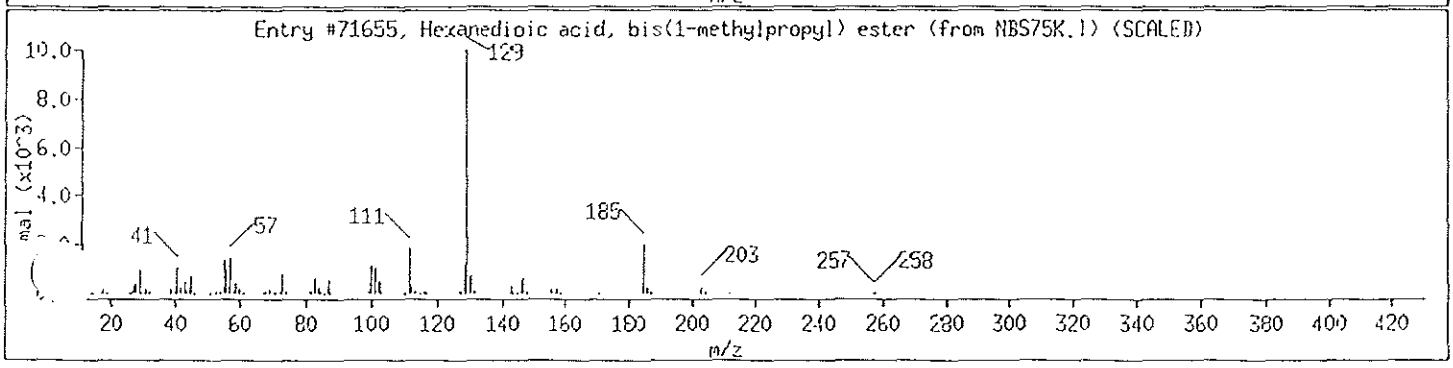
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Hexanedioic acid, mono(2-ethylhexyl)este	4337-65-9	NBS75K.l	35514	62	C14H2604	258
Hexanedioic acid, dihexyl ester	110-33-8	NBS75K.l	44802	43	C18H3404	314
Hexanedioic acid, bis(1-methylpropyl) es	28447-22-2	NBS75K.l	71655	32	C14H2604	258









1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0328 EPA SAMPLE NO.

CLJ78CS005

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2495C

Sample wt/vol: 30.3 (g/mL) G Lab File ID: B9529

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: 16 decanted: (Y/N) N Date Extracted: 01/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	390	U
111-44-4	bis(2-Chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	390	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0329 EPA SAMPLE NO.

CLJ78CS005

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2495C

Sample wt/vol: 30.3 (g/mL) G Lab File ID: B9529

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: 16 decanted: (Y/N) N Date Extracted: 01/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2000	U
100-02-7	4-Nitrophenol	2000	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	980	U
101-55-3	4-Bromophenyl-phenylether	390	U
86-30-6	N-Nitrosodiphenylamine (1)	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	280	J
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	250	J
129-00-0	Pyrene	220	J
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	390	U
218-01-9	Chrysene	390	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	J
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
53-70-3	Dibenz(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0330 EPA SAMPLE NO.

CLJ78CS005

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2495C

Sample wt/vol: 30.3 (g/mL) G Lab File ID: B9529

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: 16 decanted: (Y/N) N Date Extracted: 01/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 20

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

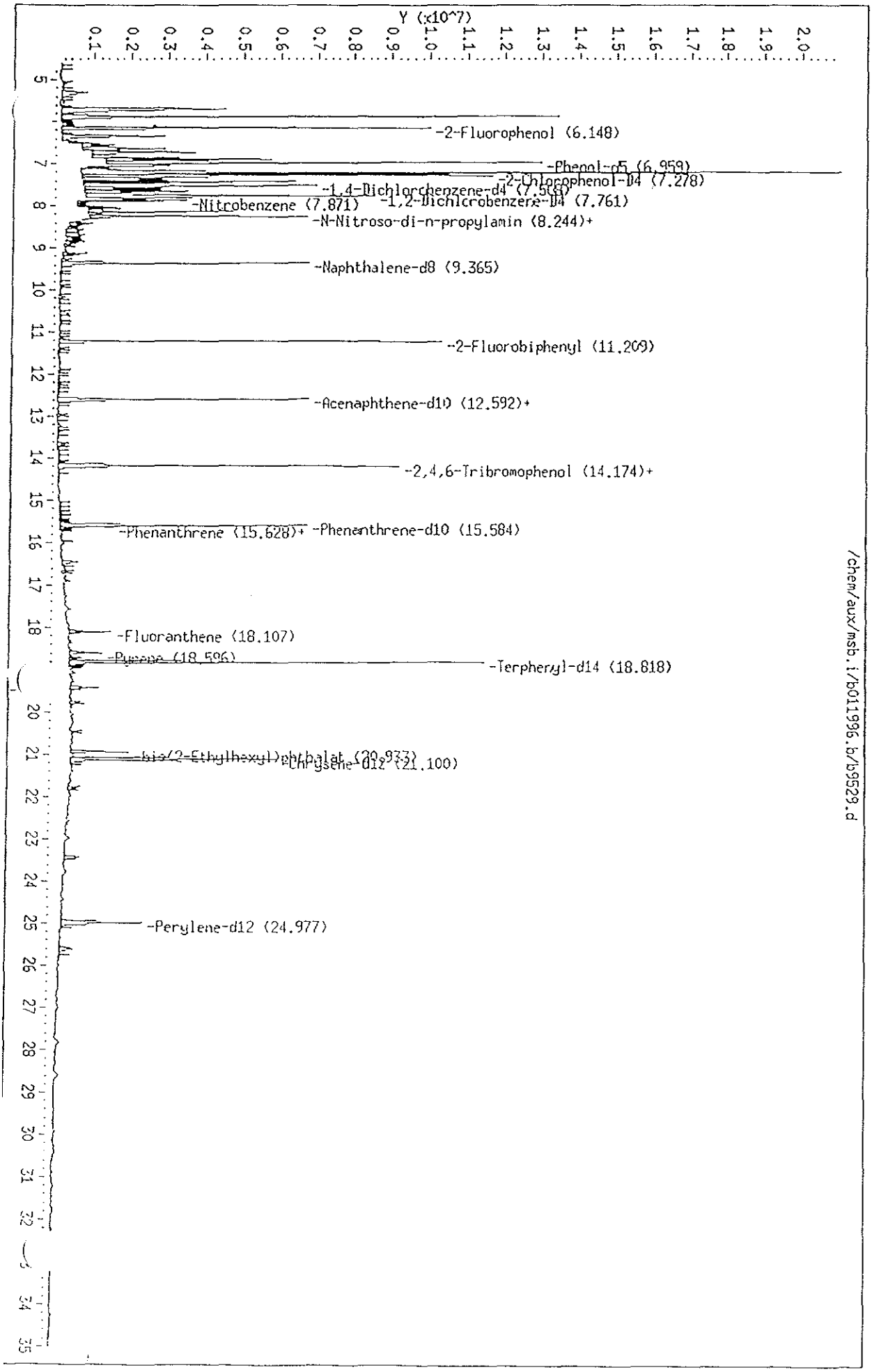
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-Pentanone, 4-hydroxy-4-met	5.87	2600	JNA
2. 111-84-2	Nonane	6.33	720	JN
3.	Unk hydrocarbon	6.55	230	J
4. 15869-94-0	Octane, 3,6-dimethyl-	6.64	440	JN
5.	unknown	6.73	680	J
6.	Unk hydrocarbon	6.84	540	J
7. 871-83-0	Nonane, 2-methyl-	6.88	1200	JN
8.	unknown	7.11	230	J
9. 124-18-5	Decane	7.20	4300	JN
10.	Unk hydrocarbon	7.34	460	J
11. 2847-72-5	Decane, 4-methyl-	7.42	1300	JN
12.	unknown	7.48	480	J
13.	unknown	7.59	480	J
14. 1678-93-9	Cyclohexane, butyl-	7.65	740	JN
15. 1120-21-4	Undecane	8.13	600	JN
16.	Unk phenolic	8.58	170	J
17.	unknown	8.66	190	J
18. 72-54-8	1,1-Dichloro-2,2-bis(p-chlor	19.42	180	JN
19. 630-03-5	Nonacosane	23.42	200	JN
20. 112-95-8	Eicosane	25.60	320	JN

Data File: /chem/aux/msb.i/b011996.b/b9529.d
Date : 19-JAN-96 17:46
Client ID:
Sample Info: 17418n clj78cs005

Column phase: J&W DB-5

Instrument: msb.i

Operator: K. Bigelow
Column diameter: 0.25



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Report Date: 20-Jan-1996 09:19

OHM Analytical Division

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/aux/msb.i/b011996.b/b9529.d
Lab Smp Id:
Inj Date : 19-JAN-96 17:46
Operator : K. Bigelow Inst ID: msb.i
Smp Info : 17418n clj78cs005
Misc Info : jp2495c,n2c60119,m1,1,1
Comment :
Method : /chem/aux/msb.i/b011996.b/0112996bclp.m
Meth Date : 20-Jan-1996 09:14 kathryn Quant Type: ISTD
Cal Date : 19-JAN-96 10:44 Cal File: b9520.d
Als bottle: 11
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

KBigelow

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
S		-Fluorophenol	112.00	6.148	6.157	(0.819)	4430345	80.8	80.8(R)
S	4	Phenol-d5	99.00	6.970	6.976	(0.928)	5207511	77.9	77.9(R)
S	7	2-Chlorophenol-D4	132.00	7.278	7.283	(0.969)	4455540	85.1	85.1(R)
•	10	1,4-Dichlorobenzene-d4	152.00	7.508	7.524	(1.000)	1643357	40.0	
S	13	1,2-Dichlorobenzene-D4	152.00	7.772	7.787	(1.035)	2026728	58.3	58.3(R)
	17	N-Nitroso-di-n-propylamine	70.00	8.244	7.995	(1.093)	473891	10.1	~~10.1~~(Q) ND, Rt, MS
S	19	Nitrobenzene-d5	82.00	8.244	8.269	(0.880)	2887352	51.6	51.6(R)
	20	Nitrobenzene	77.00	7.871	8.291	(0.840)	121388	2.22	~~2.22~~(Q) ND, Rt, MS
	21	Isophorone	82.00	8.244	8.597	(0.880)	2887352	25.0	~~25.0~~ ND, Rt, MS
•	27	Naphthalene-d8	136.00	9.365	9.386	(1.000)	5378857	40.0	
S	37	2-Fluorobiphenyl	172.00	11.209	11.228	(0.890)	5803109	61.4	61.4(R)
•	44	Acenaphthene-d10	164.00	12.592	12.620	(1.000)	2938242	40.0	
	48	2,4-Dinitrotoluene	165.00	12.592	12.949	(1.000)	406829	10.5	~~10.5~~(Q) ND, Rt, MS
S	56	2,4,6-Tribromophenol	330.00	14.174	14.200	(1.126)	2427670	148	148(R)
	57	4-Bromophenyl-phenylether	248.00	14.174	14.595	(0.910)	163246	5.21	~~5.21~~(Q) ND, Rt, MS
•	60	Phenanthrene-d10	188.00	15.584	15.604	(1.000)	4639641	40.0	
	61	Phenanthrene	178.00	15.628	15.648	(1.003)	928721	7.22	7.22
	62	Anthracene	178.00	15.628	15.747	(1.003)	928721	7.06	~~7.06~~ ND, Rt
	65	Fluoranthene	202.00	18.107	18.134	(1.162)	876423	6.32	6.32
	67	Pyrene	202.00	18.596	18.617	(0.881)	711730	5.48	5.48
S	68	Terphenyl-d14	244.00	18.818	18.826	(0.892)	7200555	80.1	80.1(R)
	70	bis(2-Ethylhexyl)phthalate	149.00	20.933	20.954	(0.992)	795908	8.50	8.50
•	73	Chrysene-d12	240.00	21.100	21.131	(1.000)	3364617	40.0	
•	79	Perylene-d12	264.00	24.977	25.033	(1.000)	2544434	40.0	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

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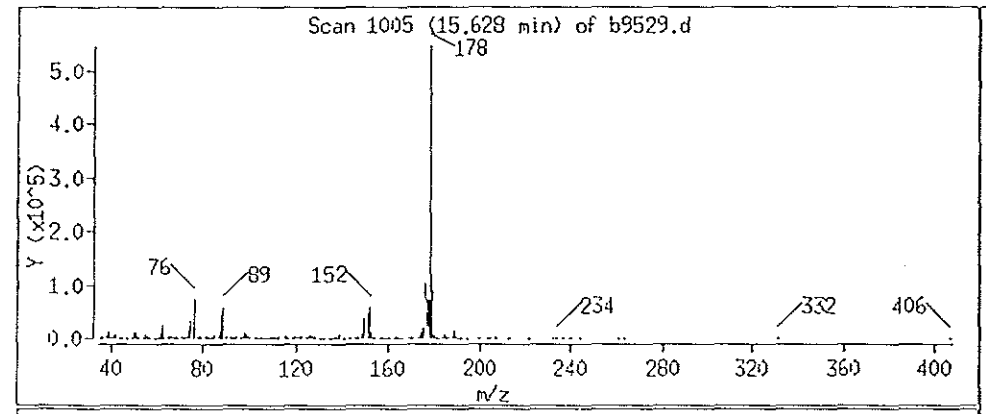
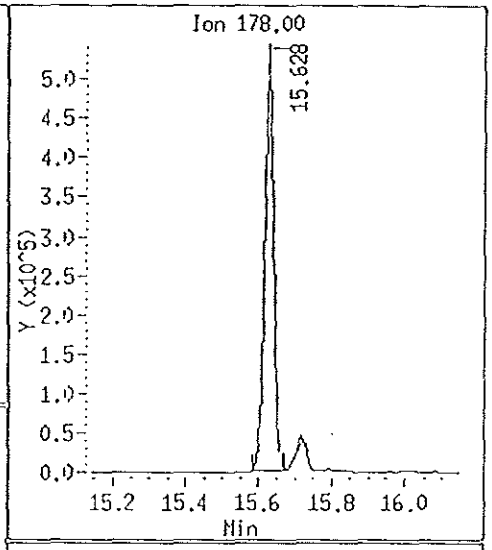
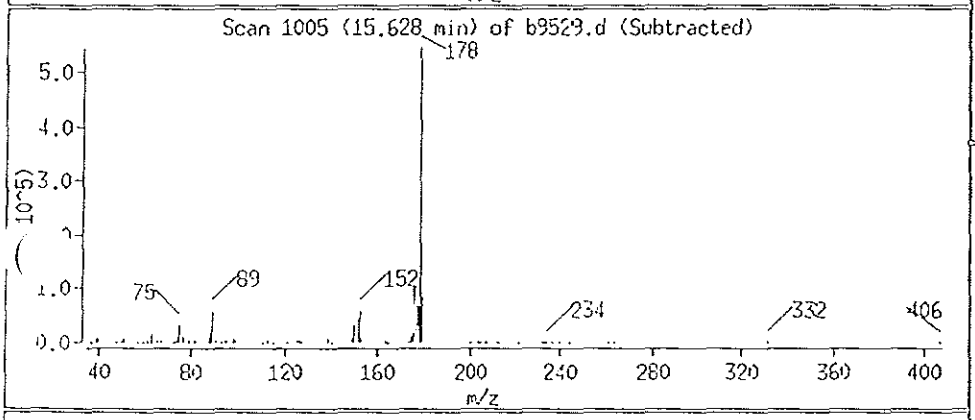
Column phase: J&W DB-5

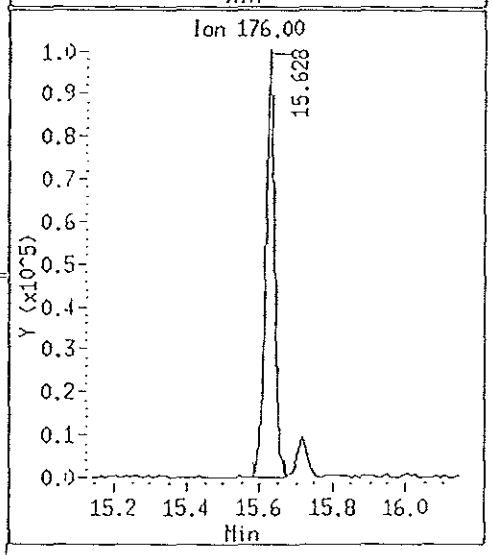
Column diameter: 0.25

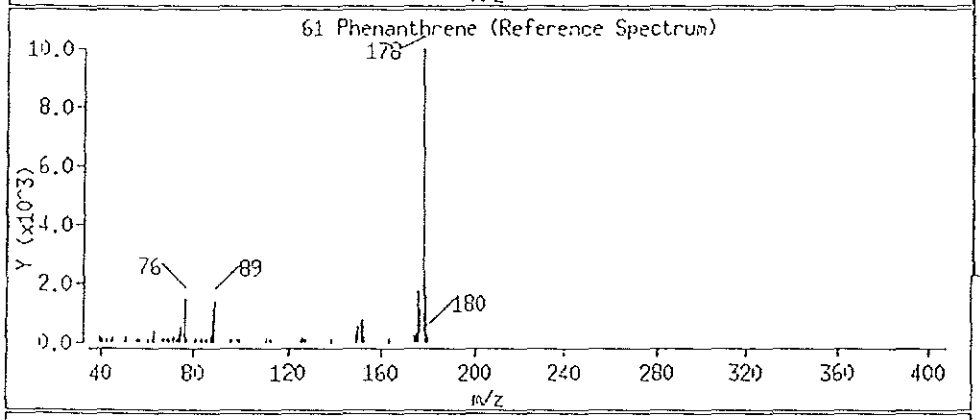
61 Phenanthrene

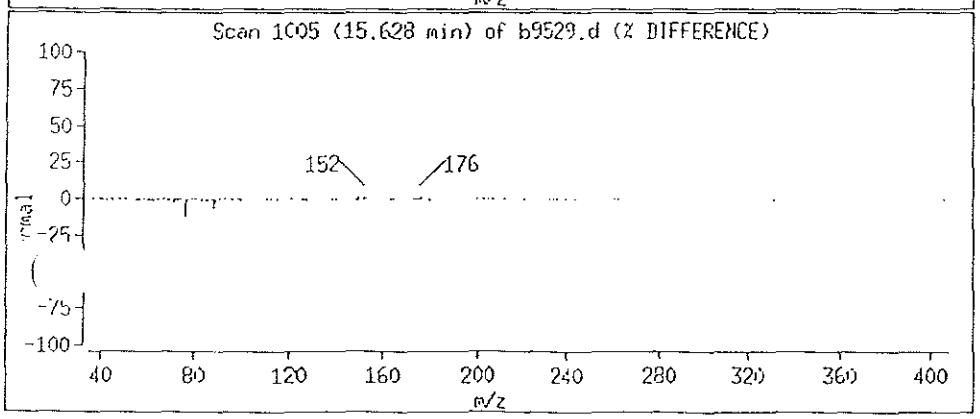












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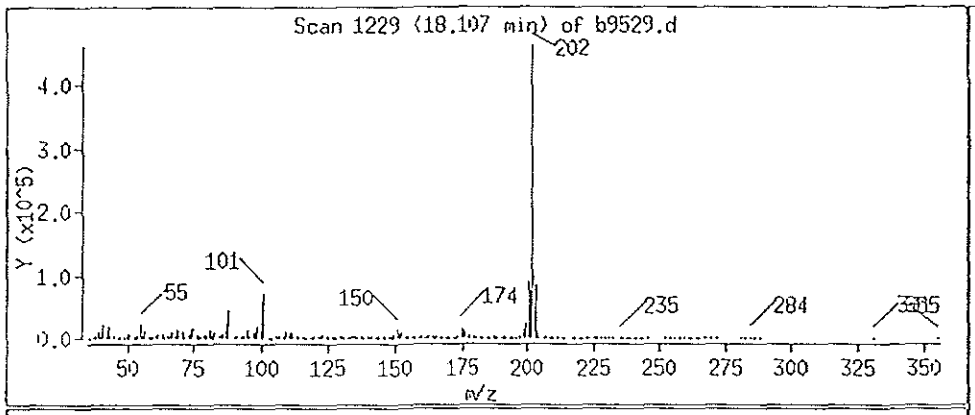
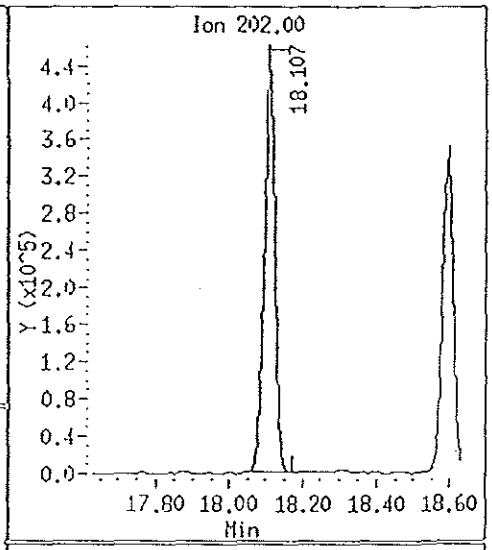
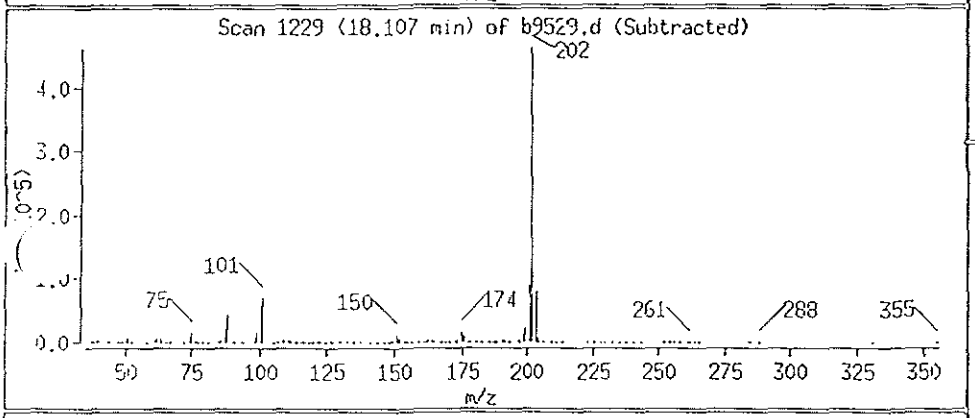
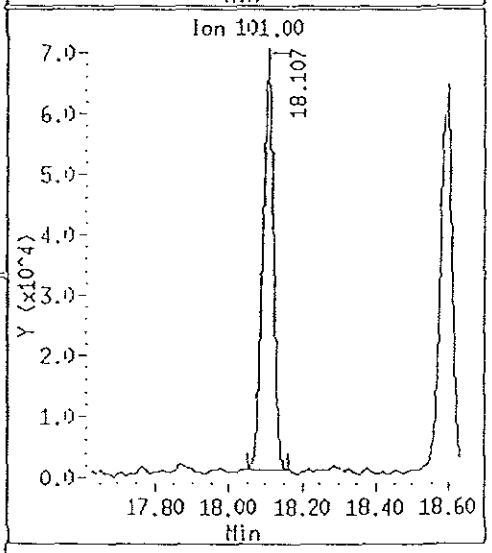
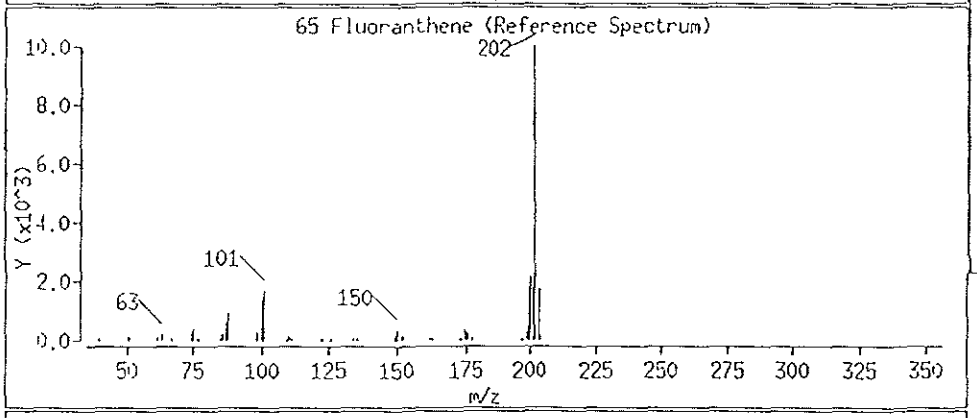
65 Fluoranthene

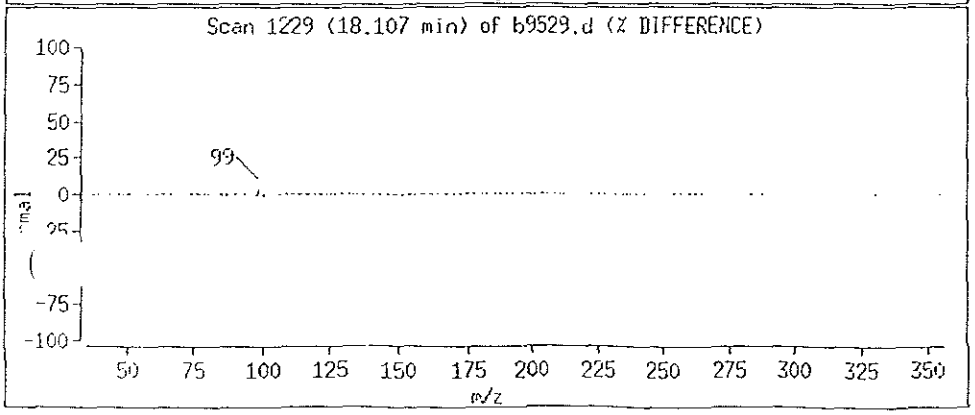












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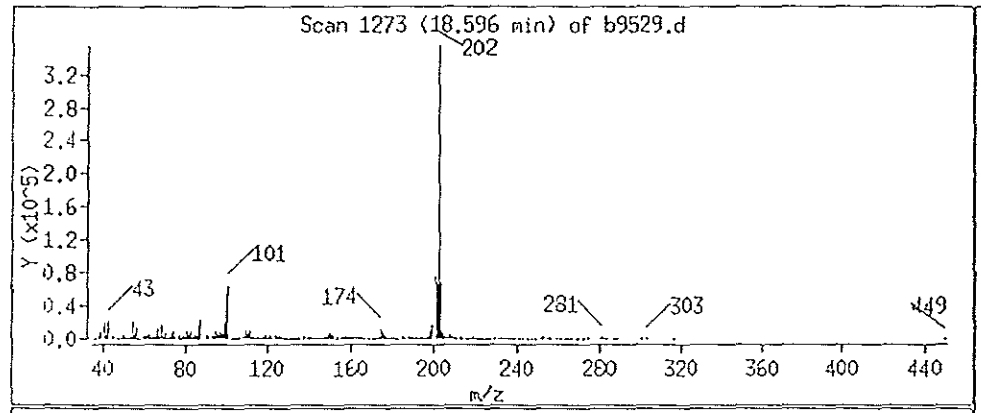
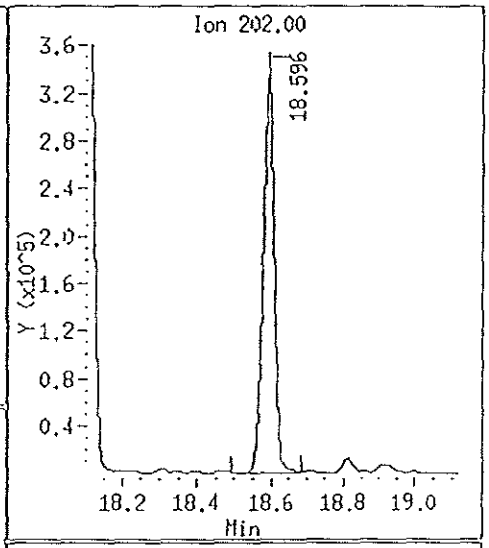
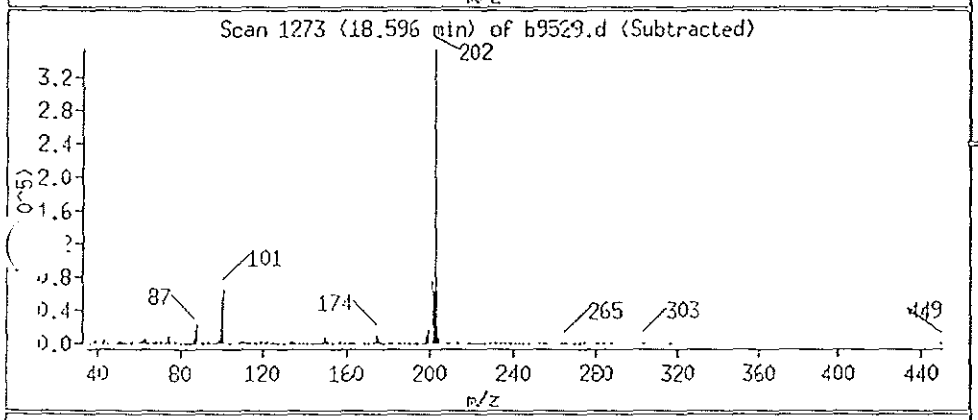
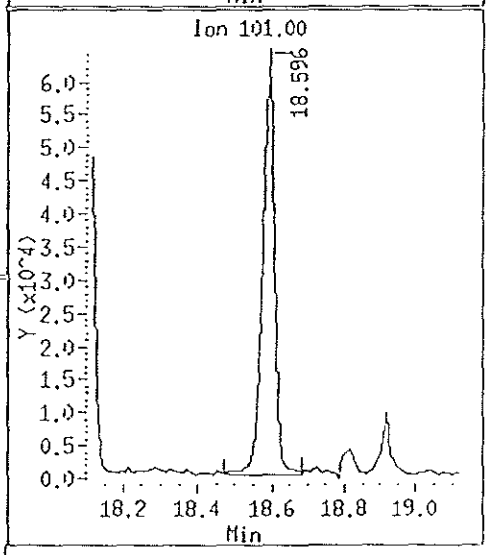
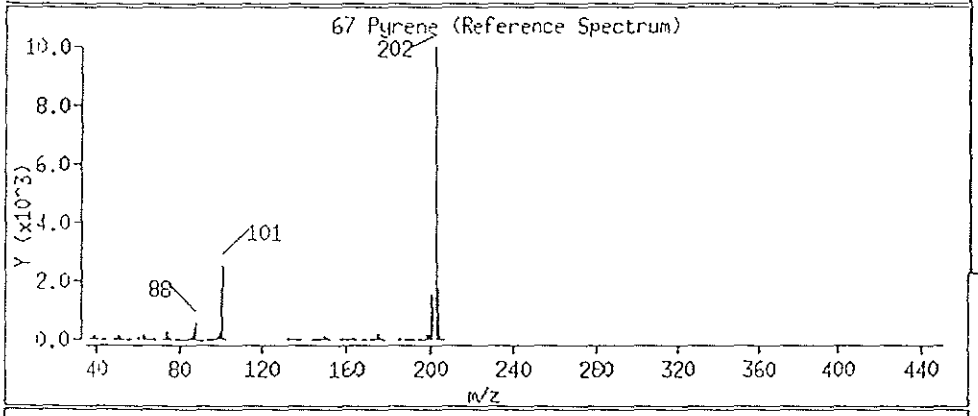
67 Pyrene

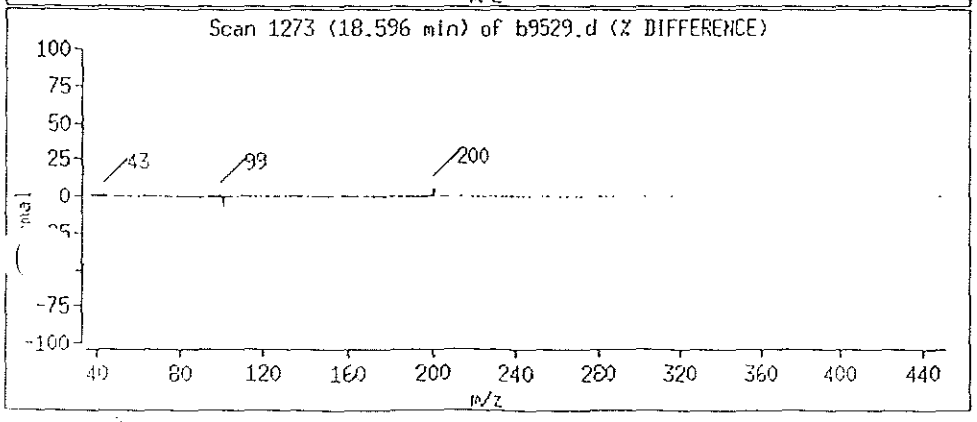












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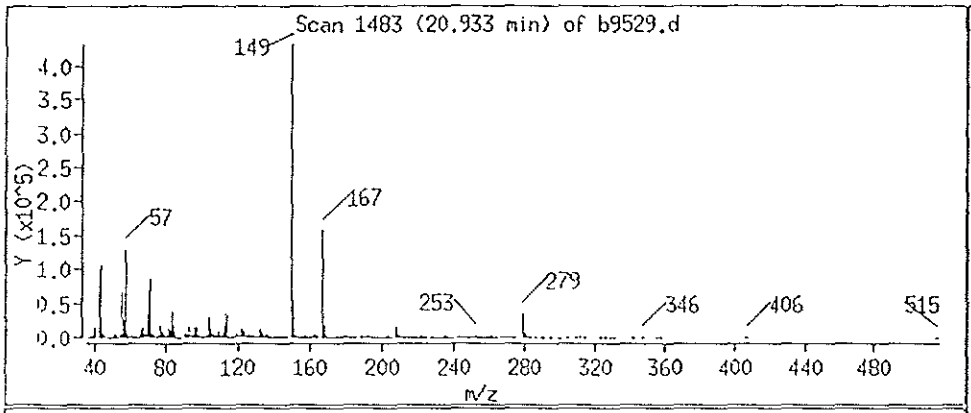
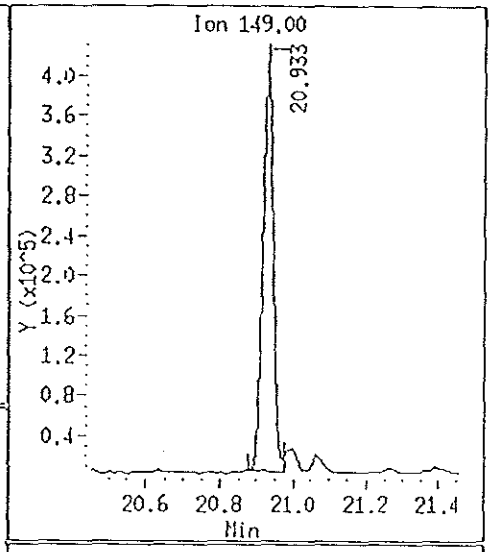
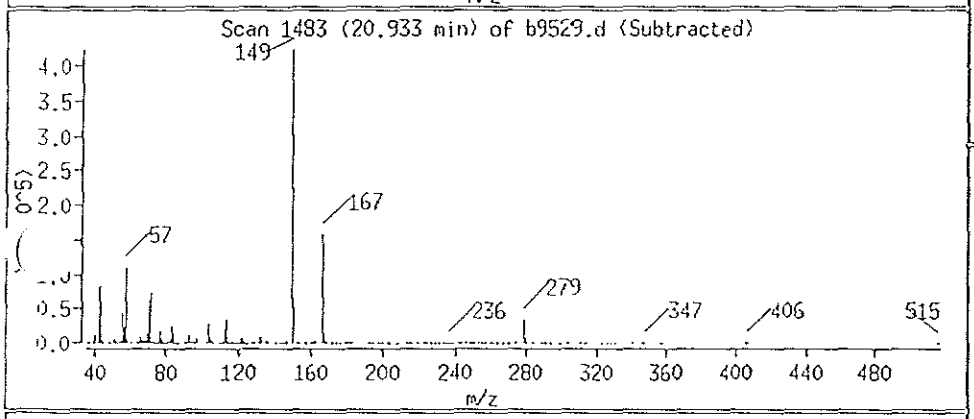
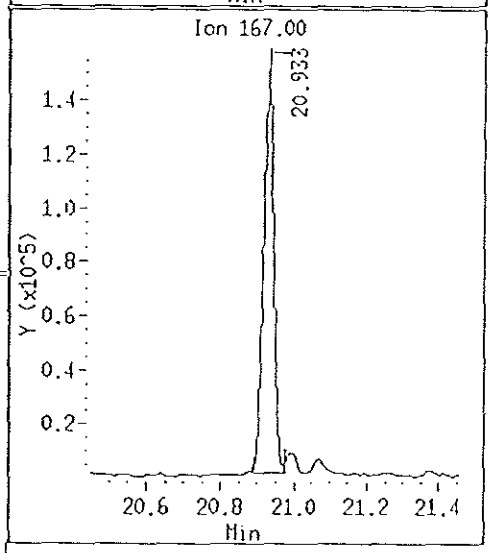
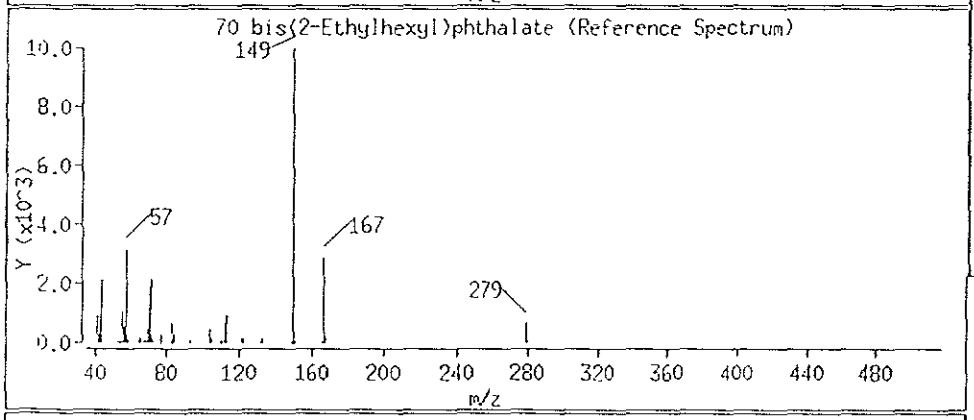
70 bis(2-Ethylhexyl)phthalate

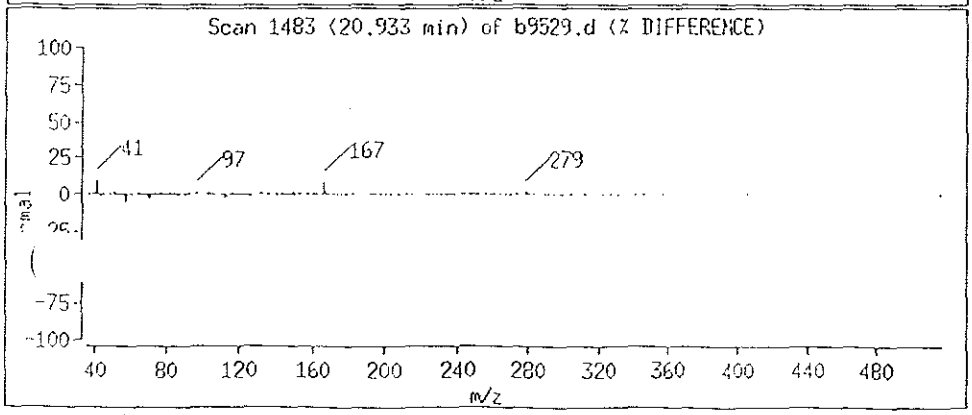












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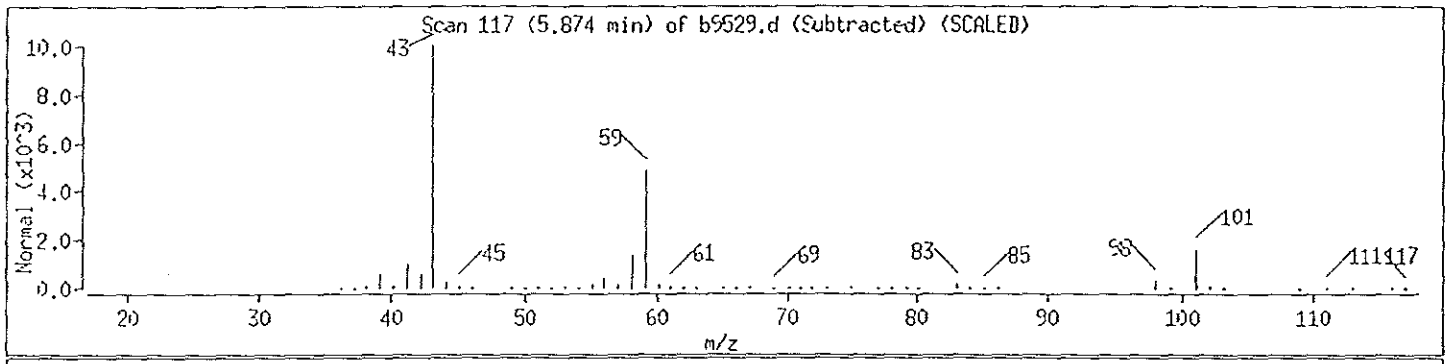
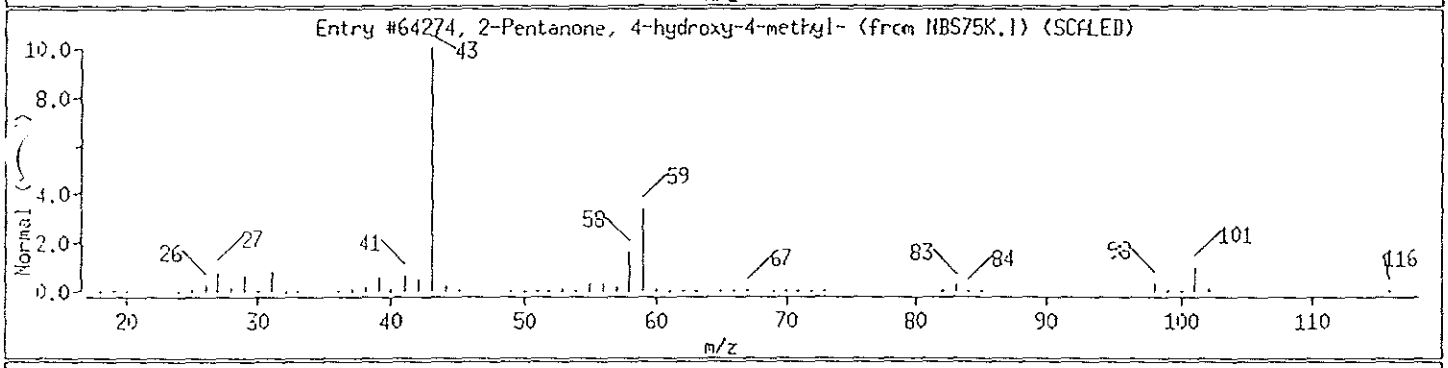
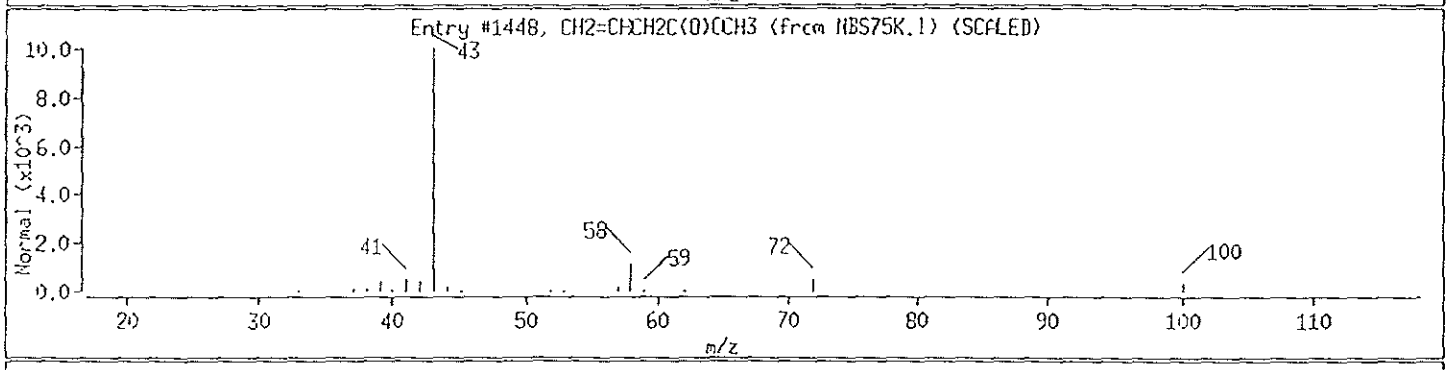
Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NBS75K.1	64274	59	C6H12O2	116
CH2=CHCH2C(O)OCH3	3724-55-8	NBS75K.1	1448	12	C5H8O2	100







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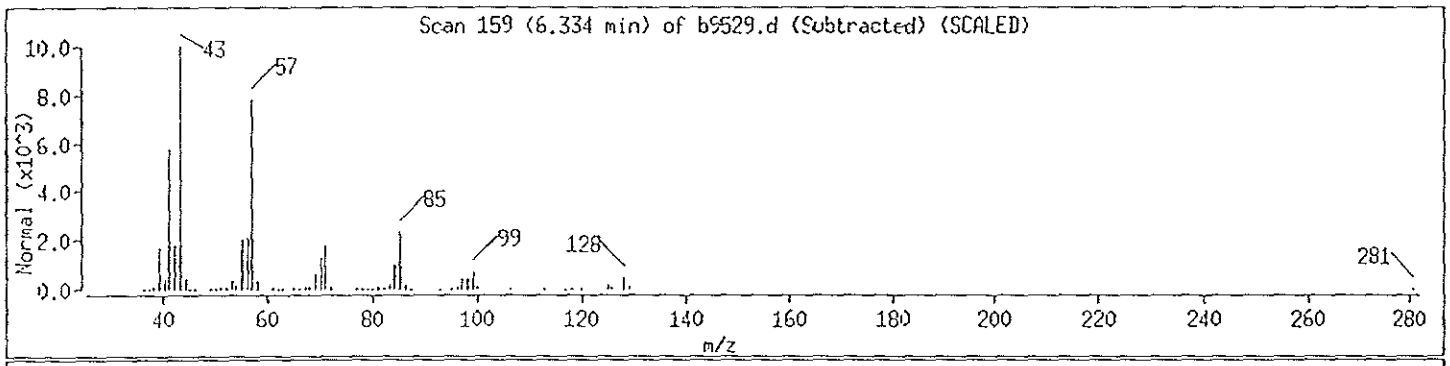
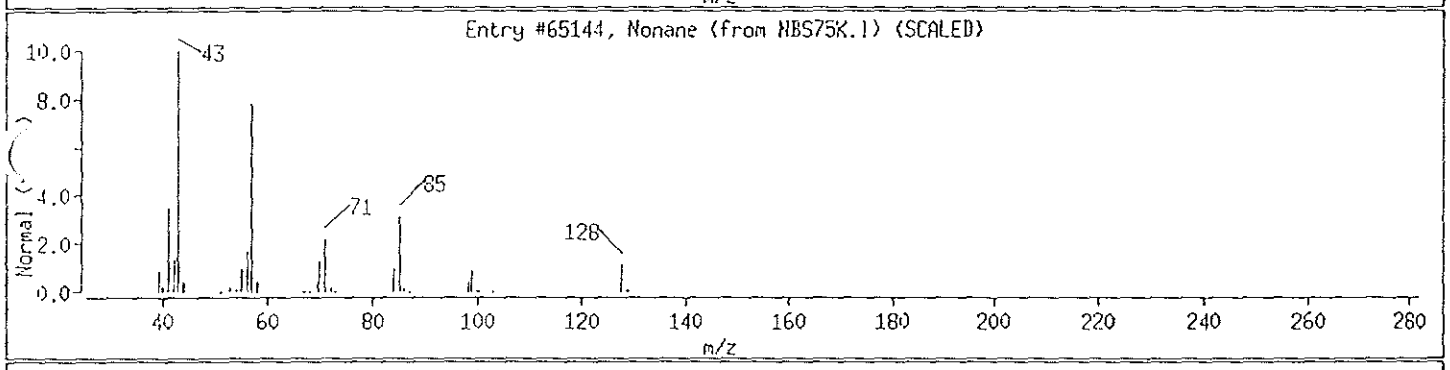
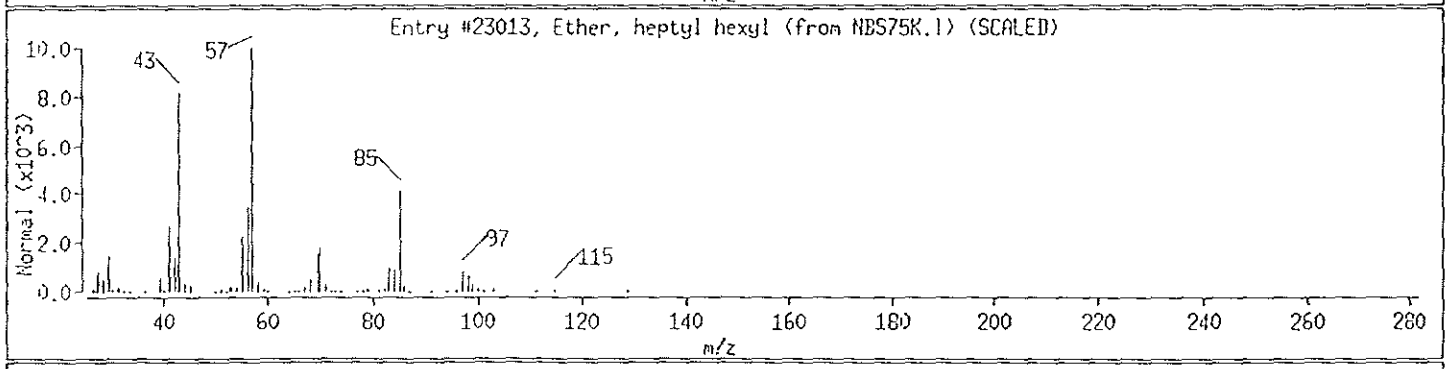
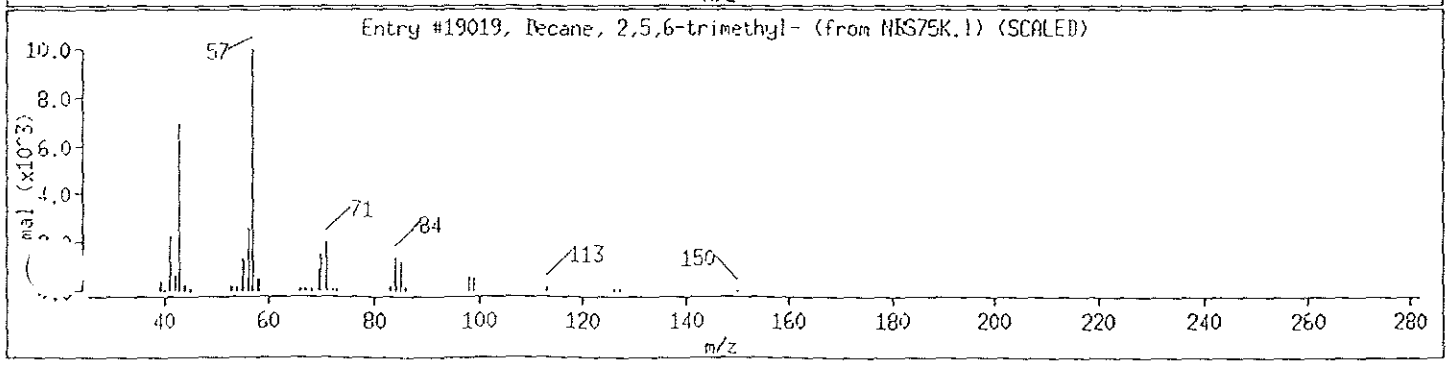
Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonane	111-84-2	NBS75K.1	65144	96	C9H20	128
Ether, heptyl hexyl	7289-40-9	NBS75K.1	23013	64	C13H28O	200
Decane, 2,5,6-trimethyl-	62108-23-0	NBS75K.1	19019	59	C13H28	184









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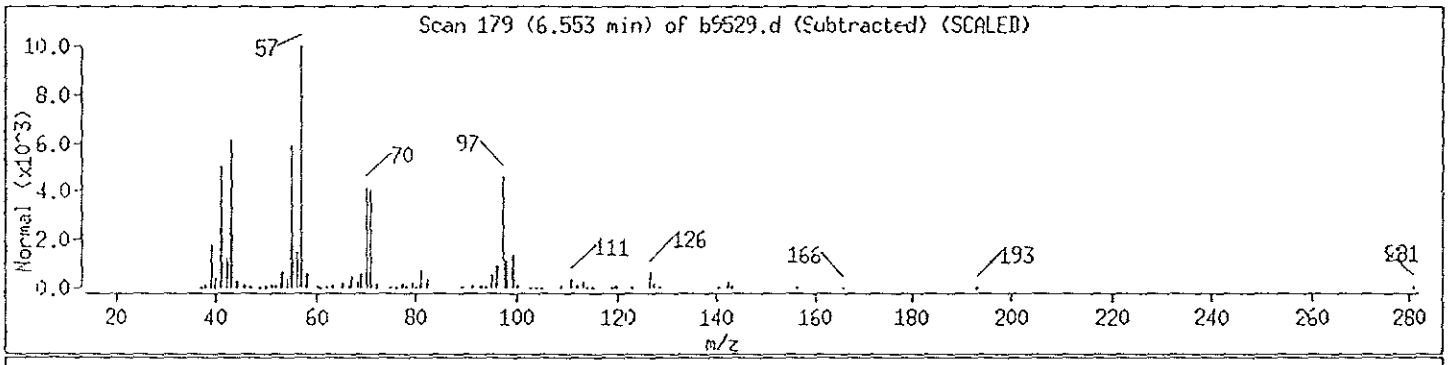
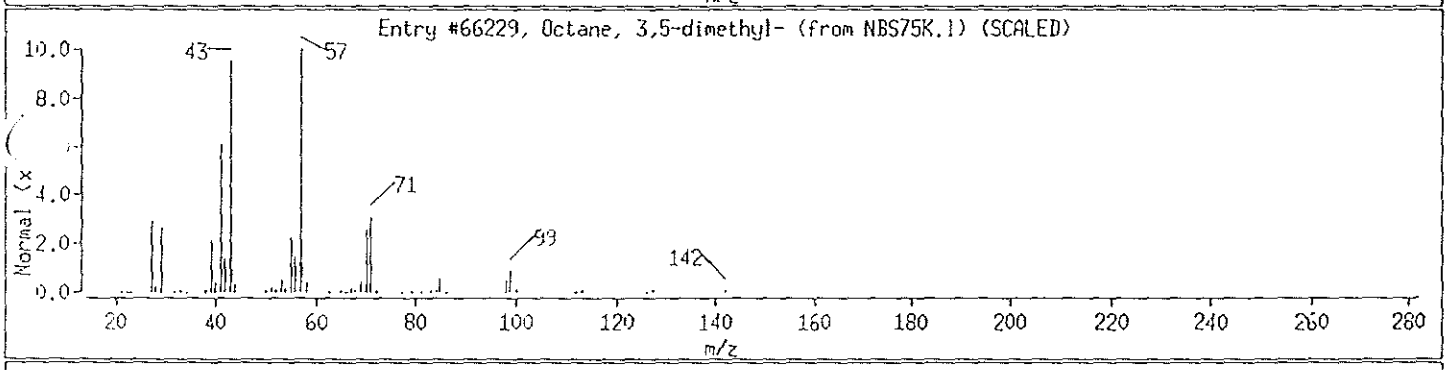
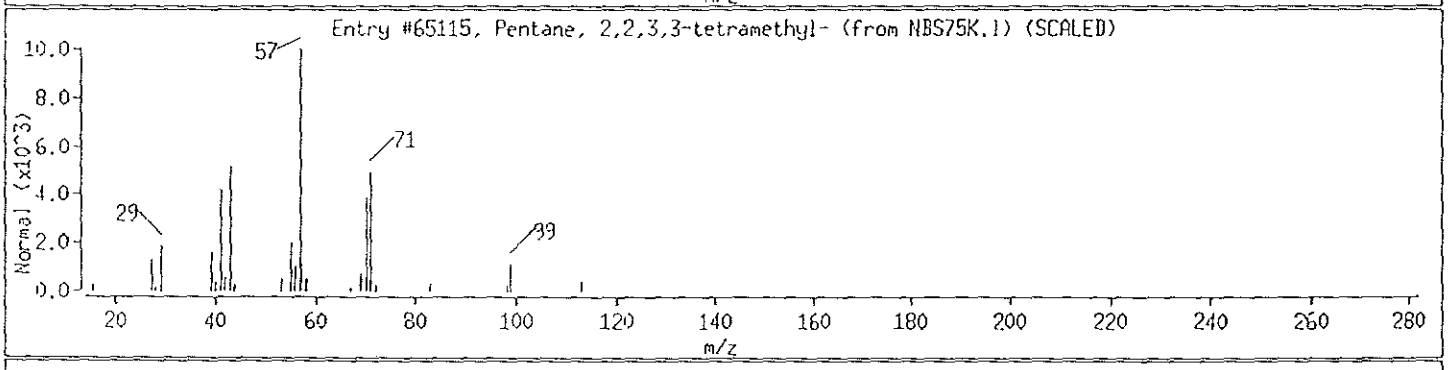
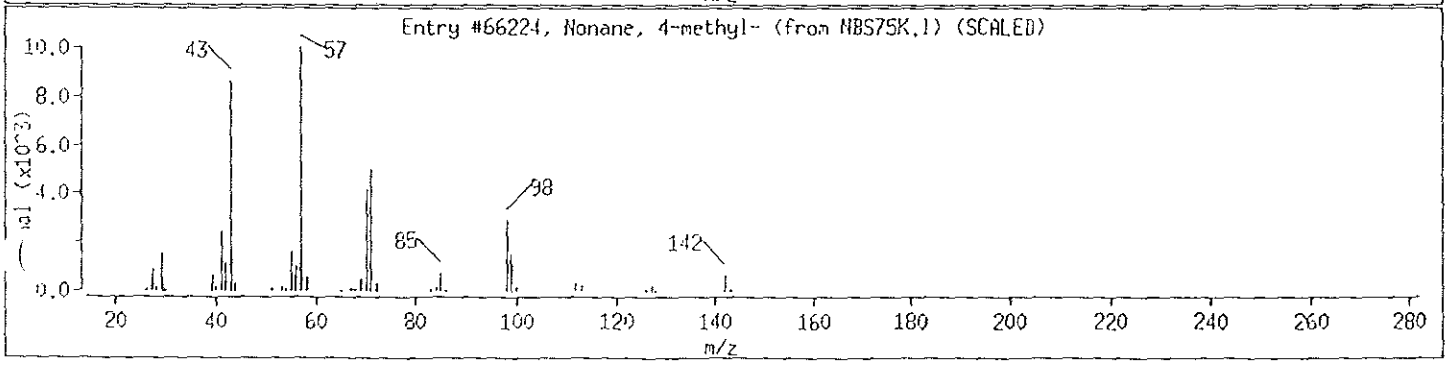
Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Octane, 3,5-dimethyl-	15869-93-9	NBS75K.l	66229	64	C10H22	142
Pentane, 2,2,3,3-tetramethyl-	7154-79-2	NBS75K.l	65115	50	C9H20	128
Nonane, 4-methyl-	17301-94-9	NBS75K.l	66224	47	C10H22	142









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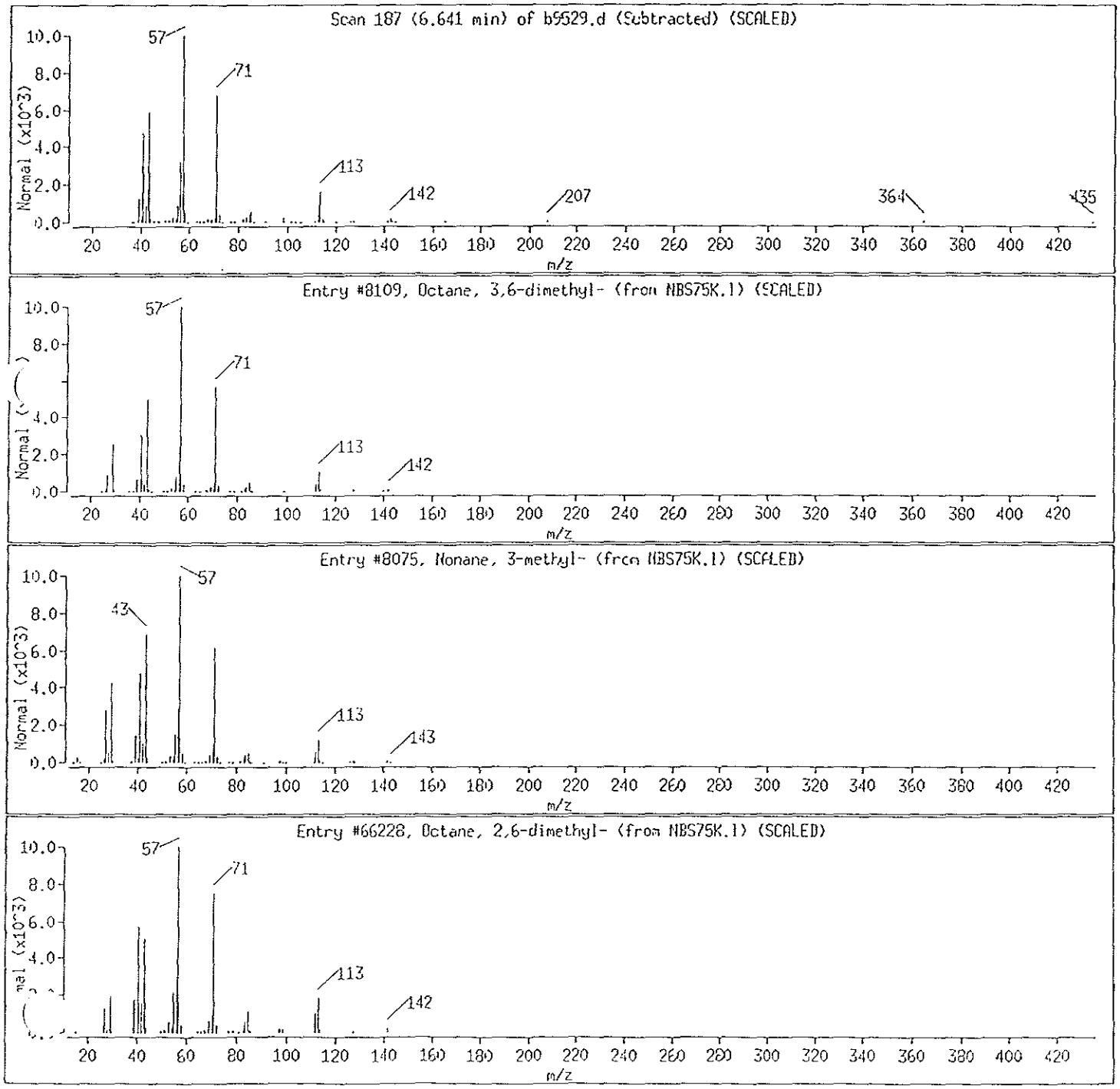
Octane, 3,6-dimethyl-	15869-94-0	NBS75K.1	8109	94	C10H22	142
Nonane, 3-methyl-	5911-04-6	NBS75K.1	8075	91	C10H22	142
Octane, 2,6-dimethyl-	2051-30-1	NBS75K.1	66228	86	C10H22	142



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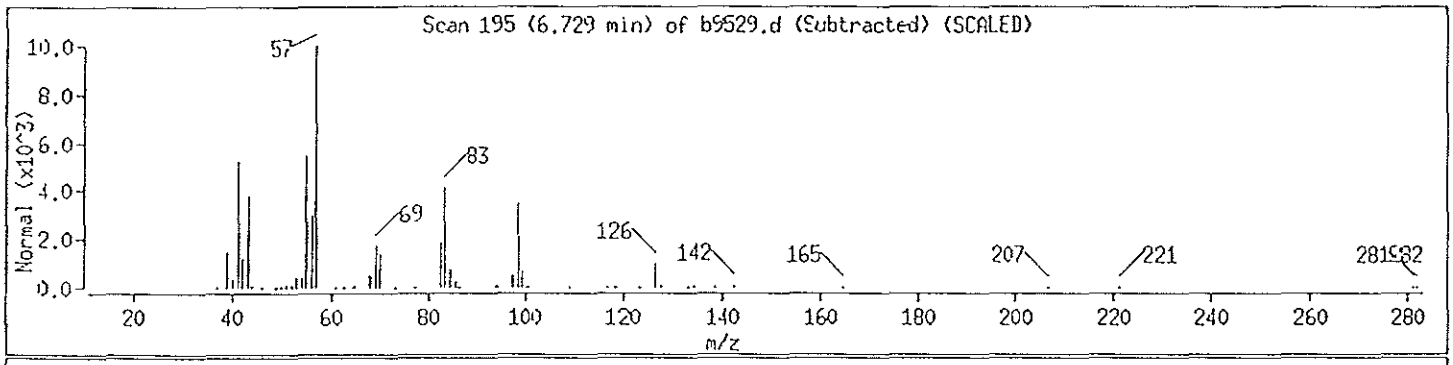
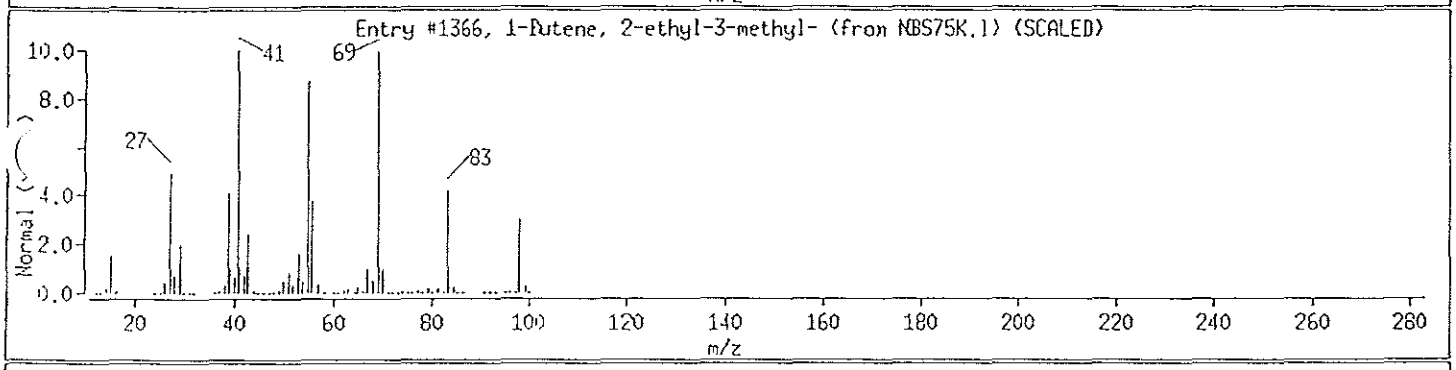
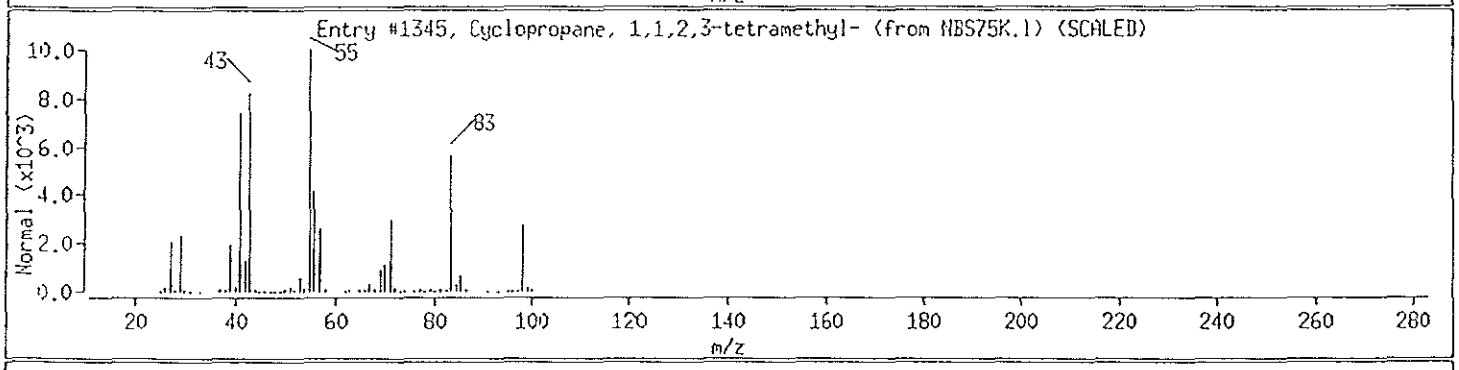
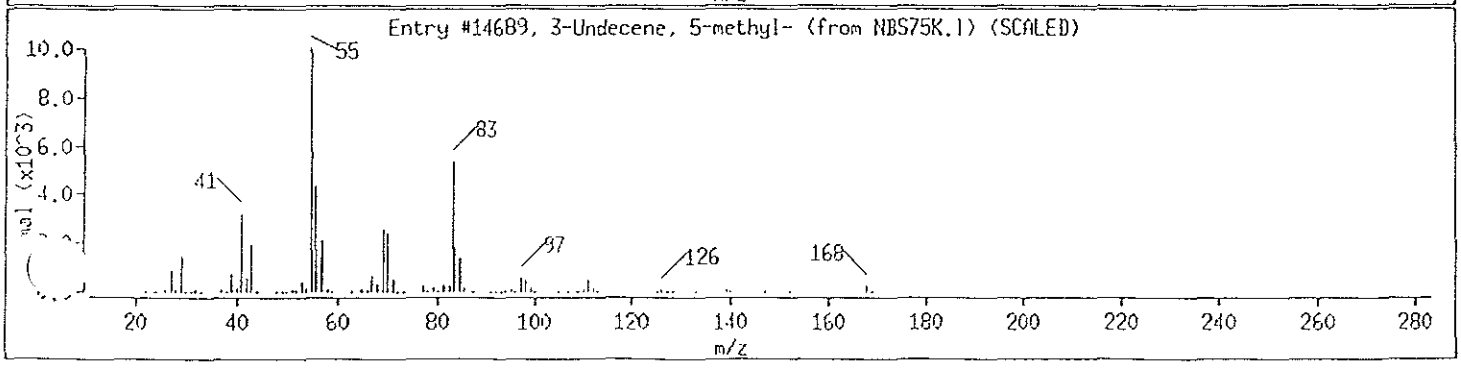
Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Butene, 2-ethyl-3-methyl-	7357-93-9	NBS75K.1	1366	50	C7H14	98
Cyclopropane, 1,1,2,3-tetramethyl-	74752-93-5	NBS75K.1	1345	47	C7H14	98
3-Undecene, 5-methyl-	0-00-0	NBS75K.1	14689	43	C12H24	168









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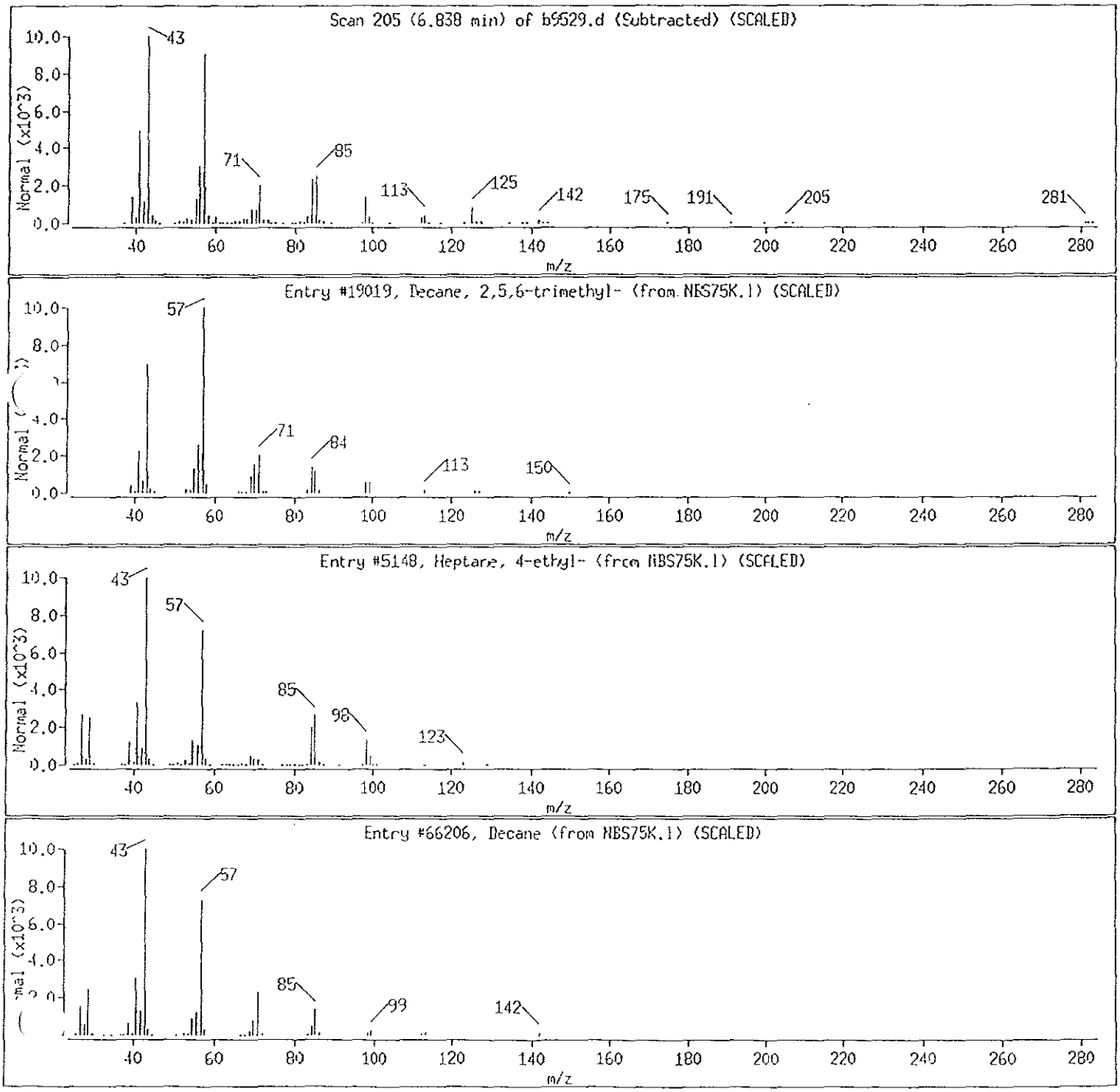
Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decane, 2,5,6-trimethyl-	62108-23-0	NBS75K.l	19019	59	C13H28	184
Heptane, 4-ethyl-	2216-32-2	NBS75K.l	5148	49	C9H20	128
Decane	124-18-5	NBS75K.l	66206	46	C10H22	142



Data File: /chem/aux/msb.i/b011996.b/b9529.d

Date : 19-JAN-96 17:46

Client ID:

Instrument: msb.i

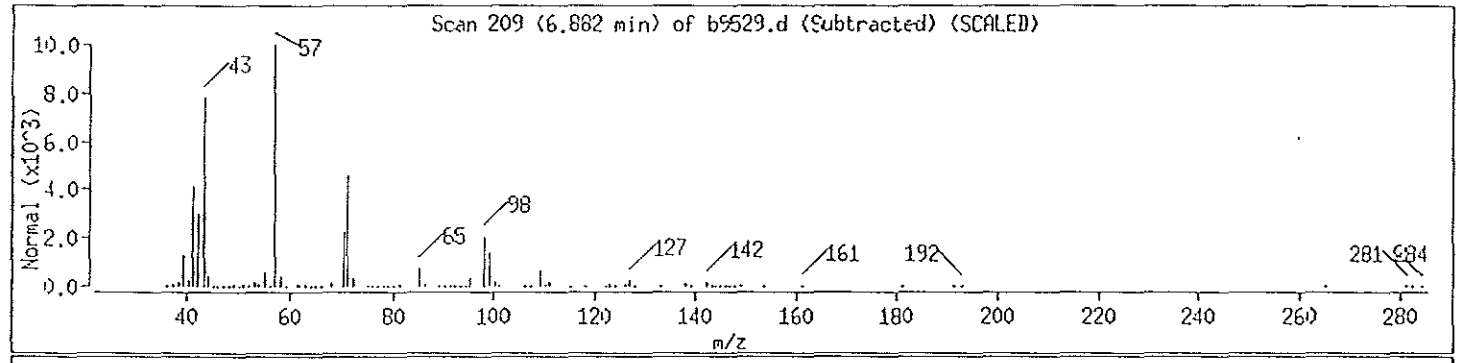
Sample Info: 17418n clj78cs005

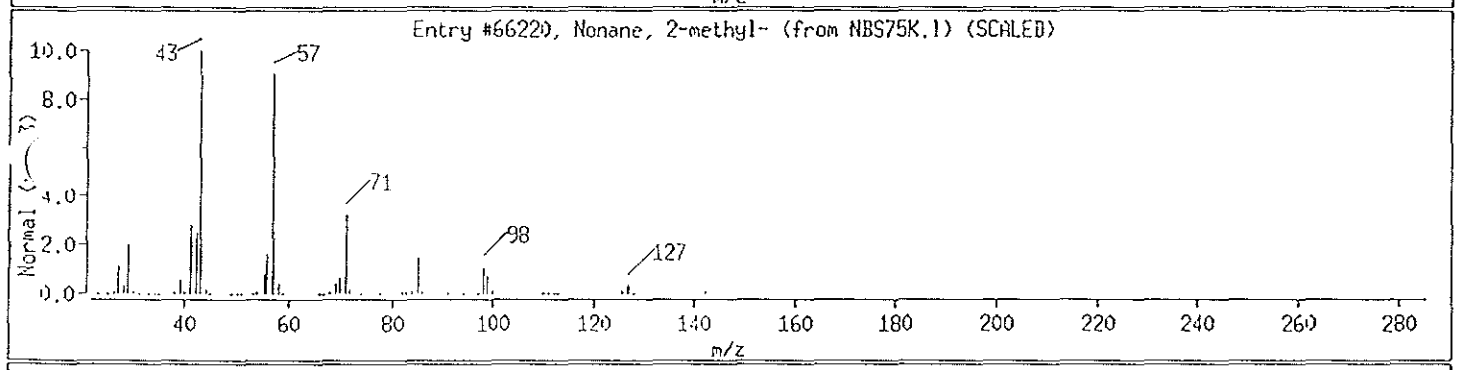
Operator: K. Bigelow

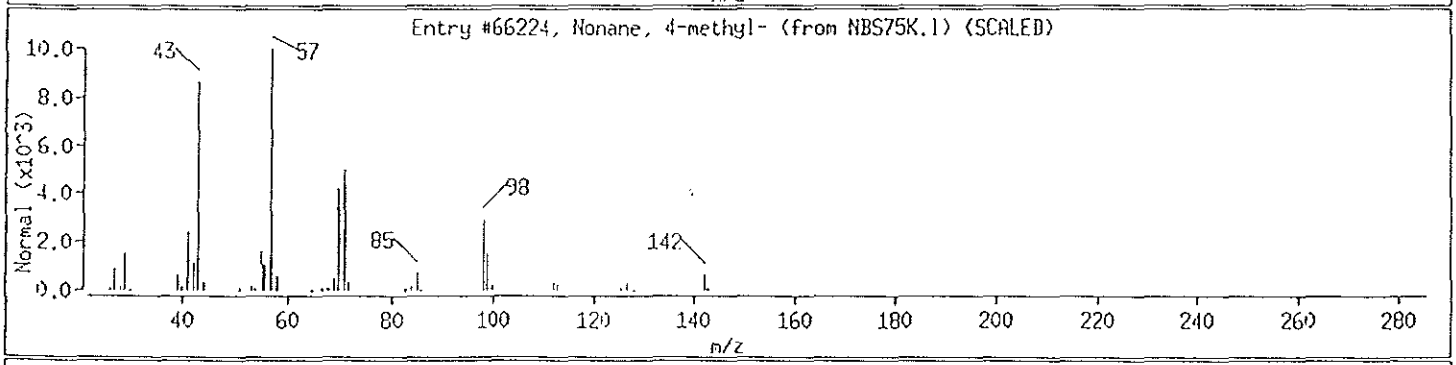
Column phase: J&W DB-5

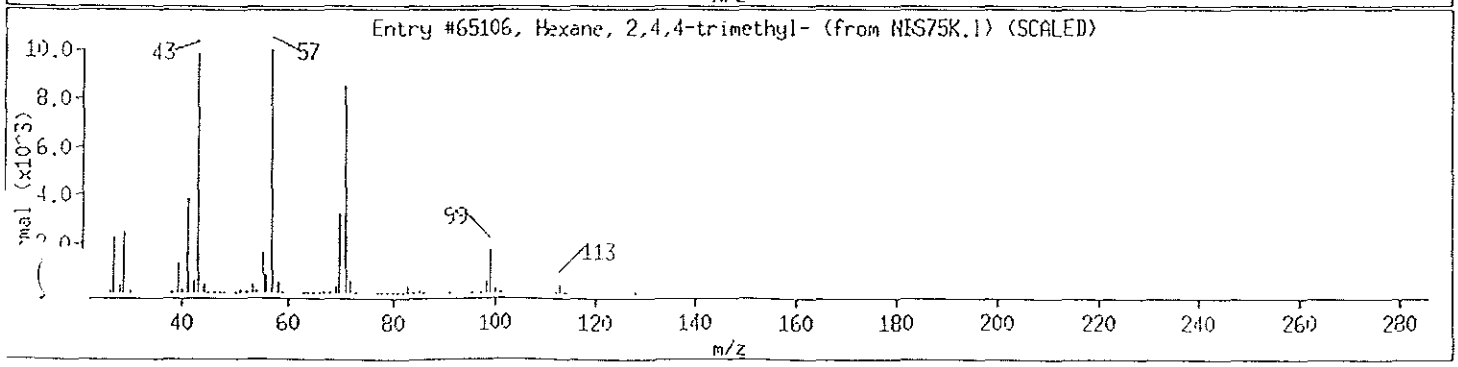
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonane, 2-methyl-	871-83-0	NBS75K.1	66220	59	C10H22	142
Nonane, 4-methyl-	17301-94-9	NBS75K.1	66224	59	C10H22	142
Hexane, 2,4,4-trimethyl-	16747-30-1	NBS75K.1	65106	50	C9H20	128









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Date : 19-JAN-96 17:46

Client ID:

Instrument: msb.i

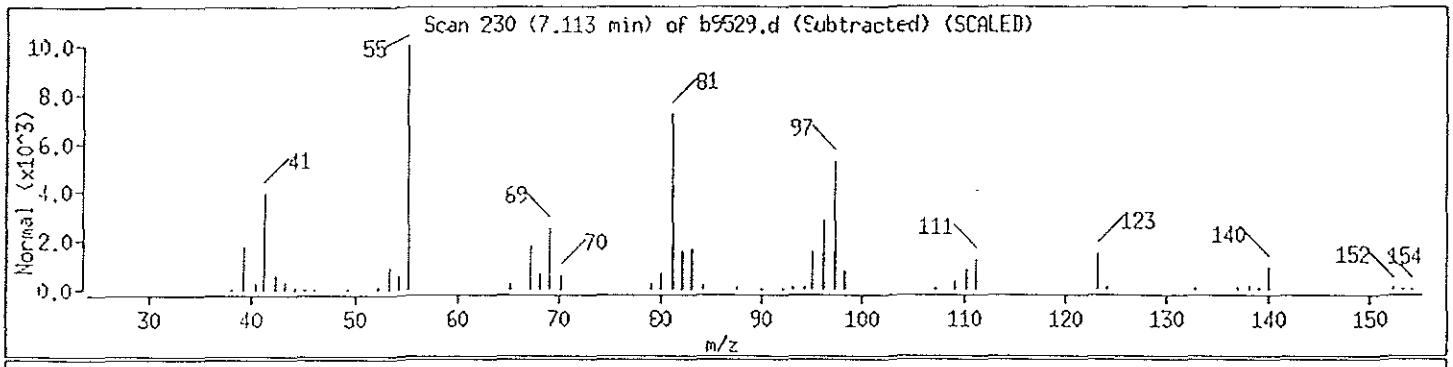
Sample Info: 17418n clj78cs005

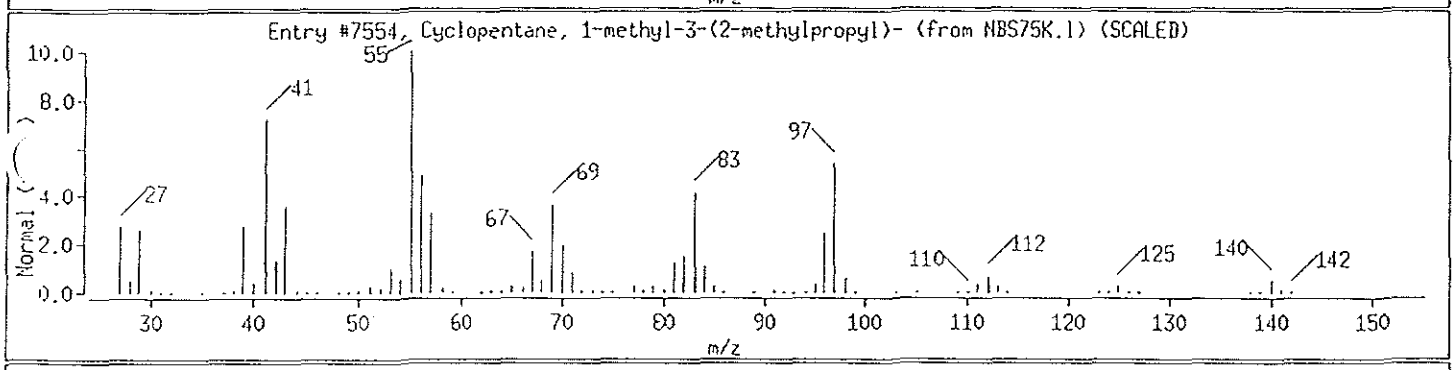
Operator: K. Bigelow

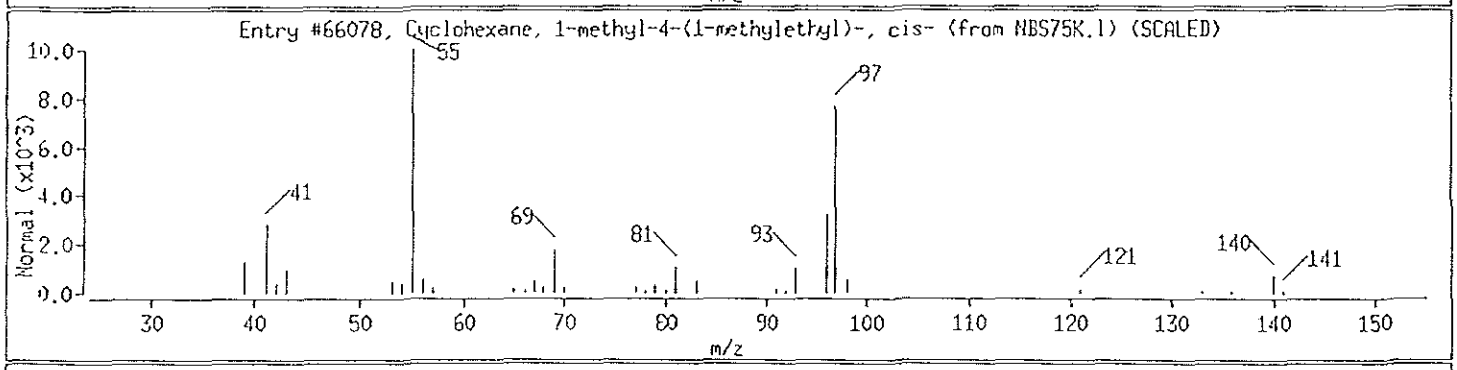
Column phase: J&W DB-5

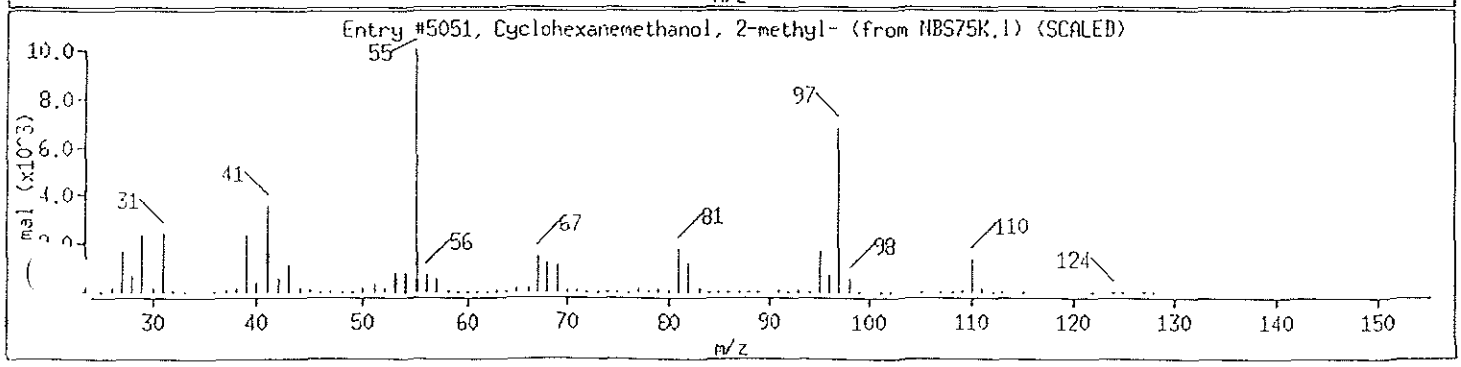
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclopentane, 1-methyl-3-(2-methylpropyl	29053-04-1	NBS75K.l	7554	58	C10H20	140
Cyclohexane, 1-methyl-4-(1-methylethyl)-	6069-98-3	NBS75K.l	66078	58	C10H20	140
Cyclohexanemethanol, 2-methyl-	2105-40-0	NBS75K.l	5051	47	C8H16O	128









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Date : 19-JAN-96 17:46

Client ID:

Instrument: msb.i

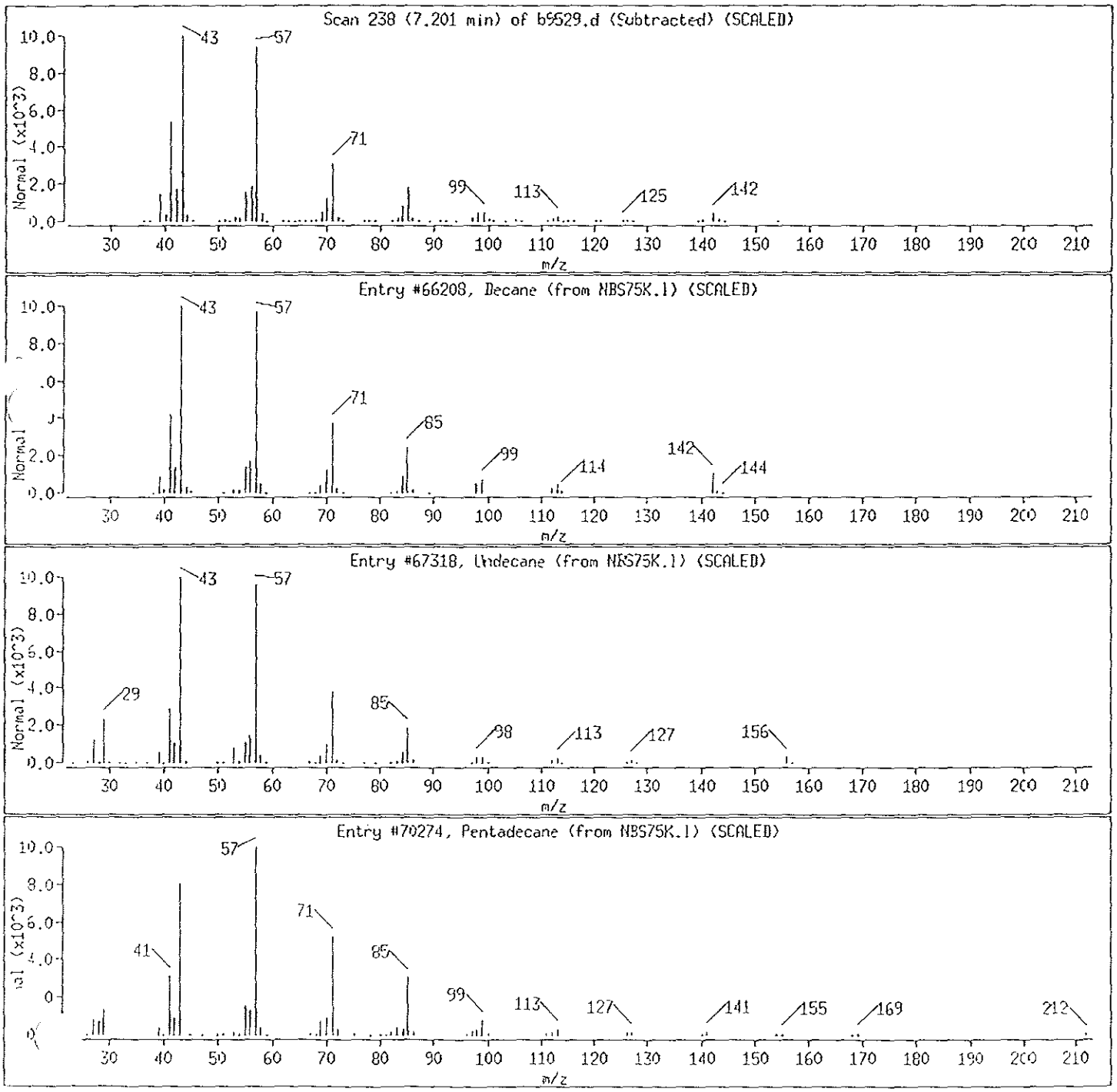
Sample Info: 17418n clj78cs005

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decane	124-18-5	NBS75K.1	66208	96	C10H22	142
Undecane	1120-21-4	NBS75K.1	67318	83	C11H24	156
Pentadecane	629-62-9	NBS75K.1	70274	72	C15H32	212



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Date : 19-JAN-96 17:46

Client ID:

Instrument: msb.i

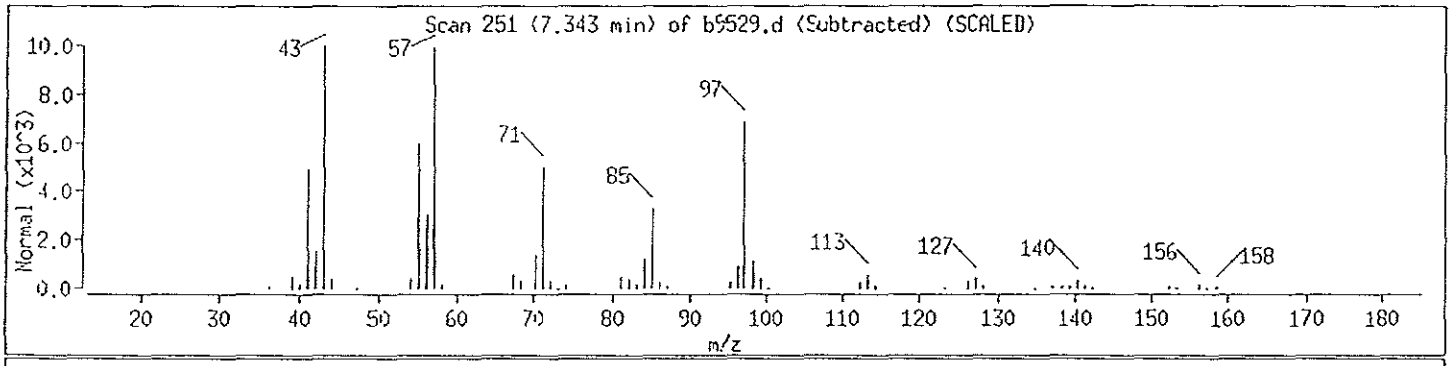
Sample Info: 17418n clj78cs005

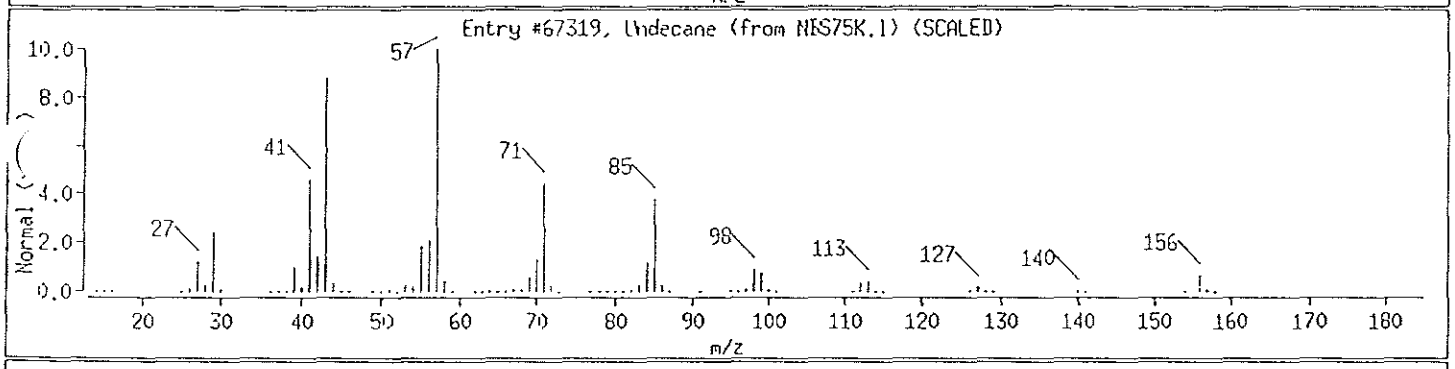
Operator: K. Bigelow

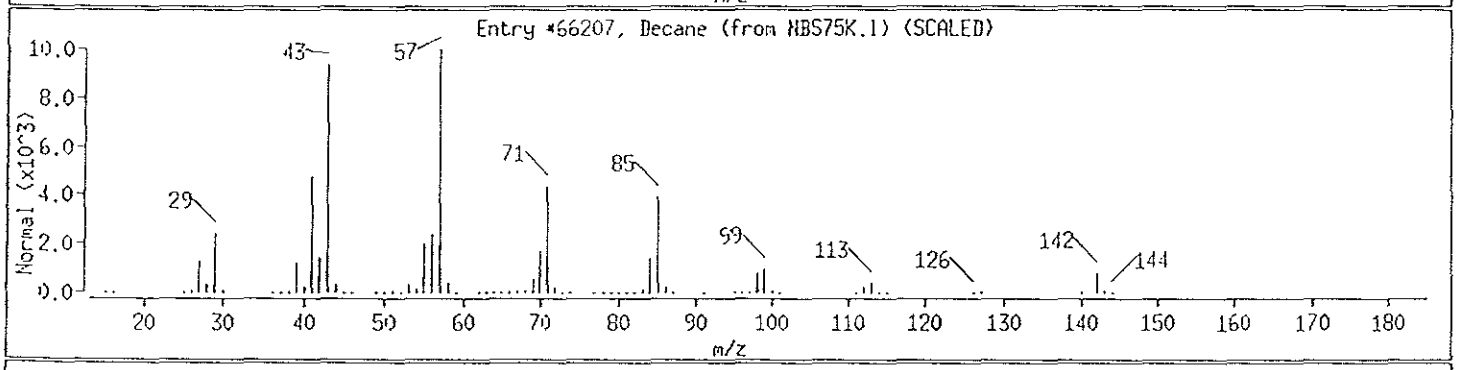
Column phase: J&W DB-5

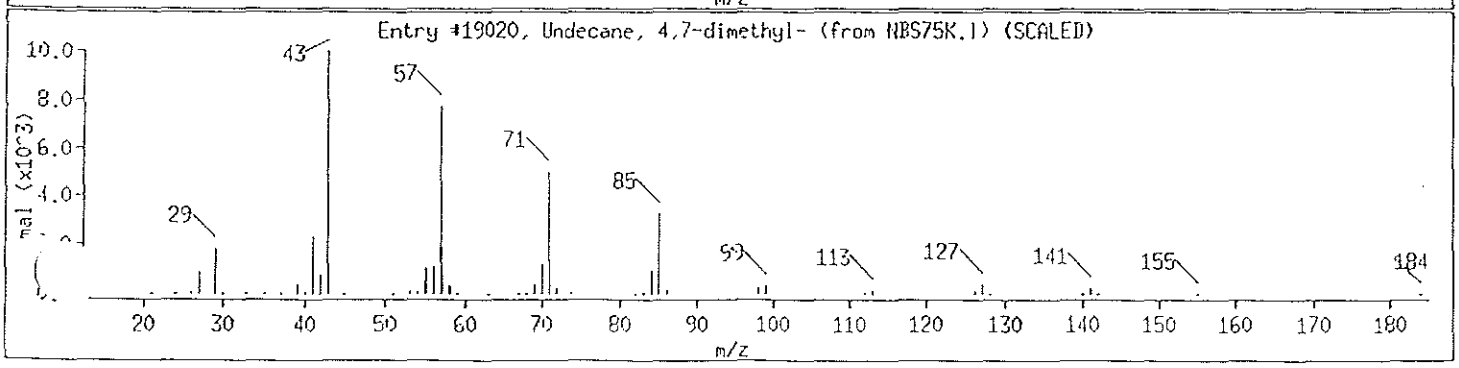
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Undecane	1120-21-4	NBS75K.1	67319	70	C11H24	156
Decane	124-18-5	NBS75K.1	66207	50	C10H22	142
Undecane, 4,7-dimethyl-	17301-32-5	NBS75K.1	19020	47	C13H28	184









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Date : 19-JAN-96 17:46

Client ID:

Instrument: msb.i

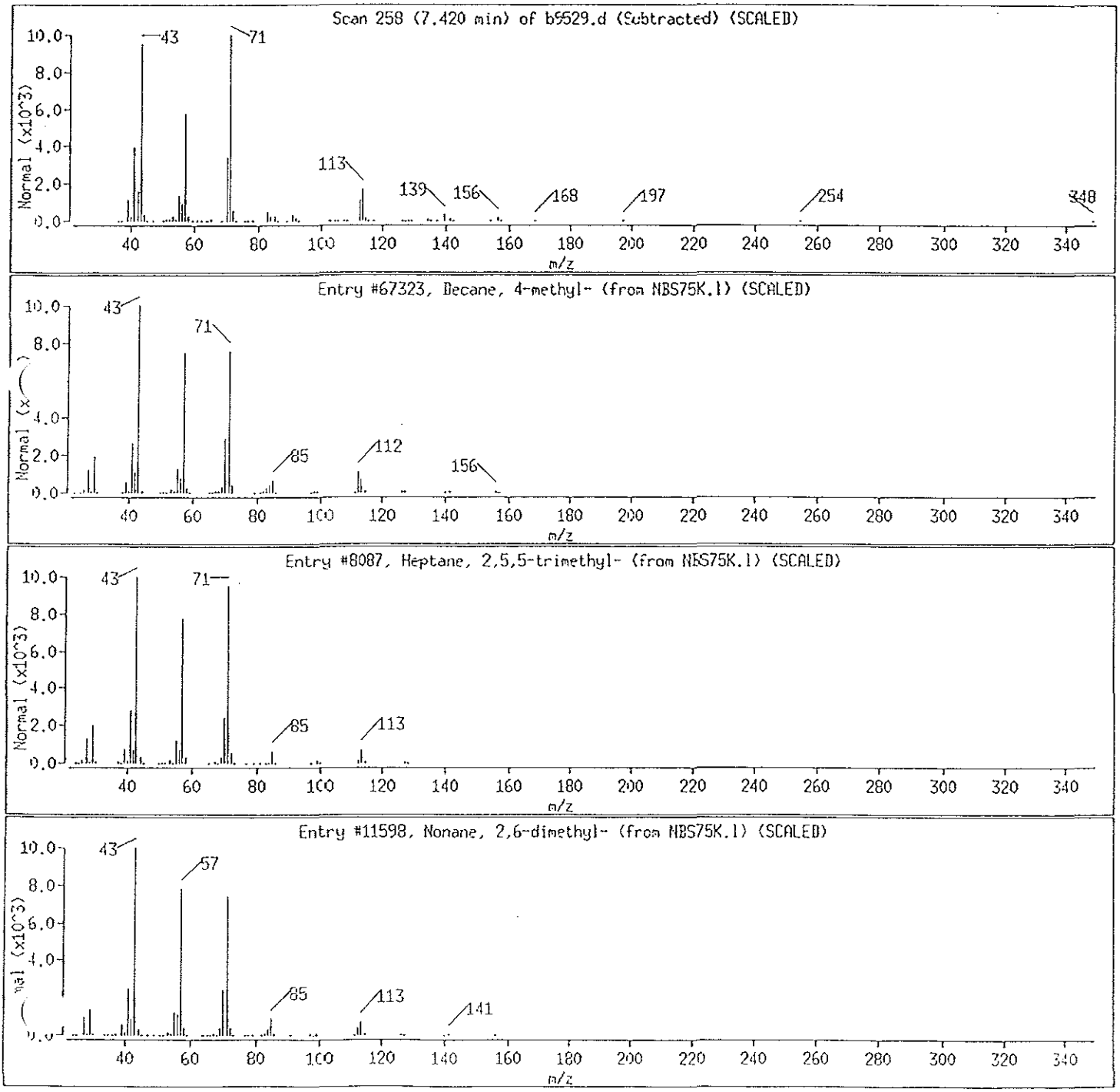
Sample Info: 17418n clj78cs005

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decane, 4-methyl-	2847-72-5	NBS75K.1	67323	86	C11H24	156
Heptane, 2,5,5-trimethyl-	1189-99-7	NBS75K.1	8087	83	C10H22	142
Nonane, 2,6-dimethyl-	17302-28-2	NBS75K.1	11598	59	C11H24	156



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Date : 19-JAN-96 17:46

Client ID:

Instrument: msb.i

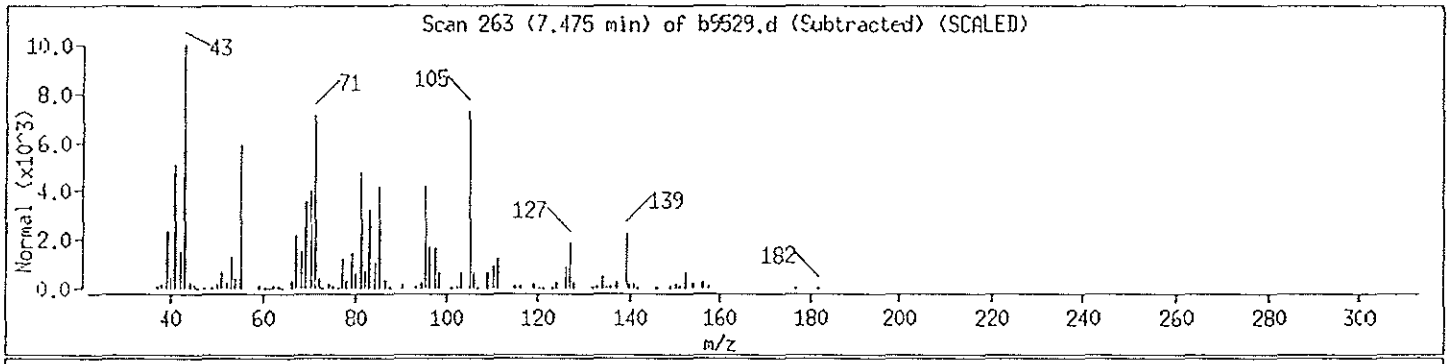
Sample Info: 17418n clj78cs005

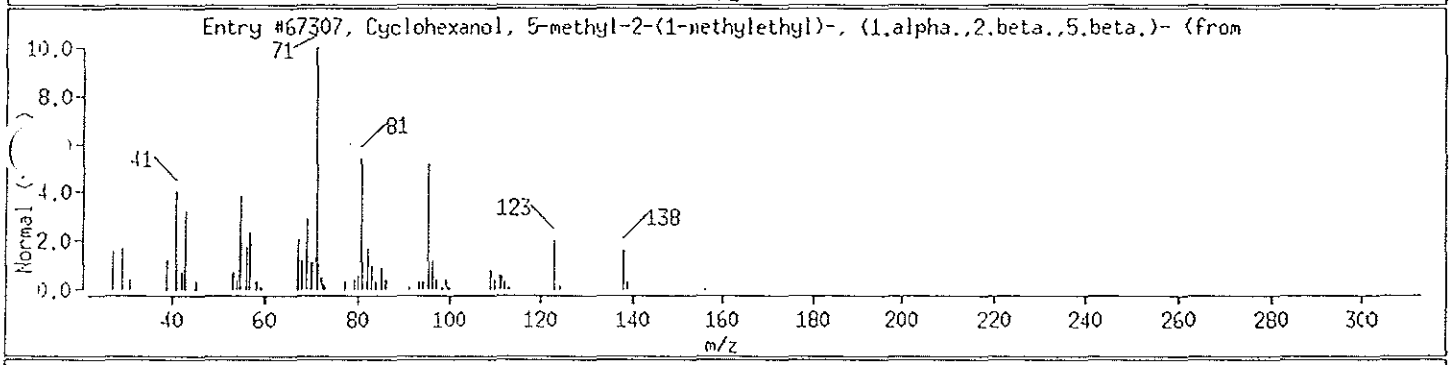
Operator: K. Bigelow

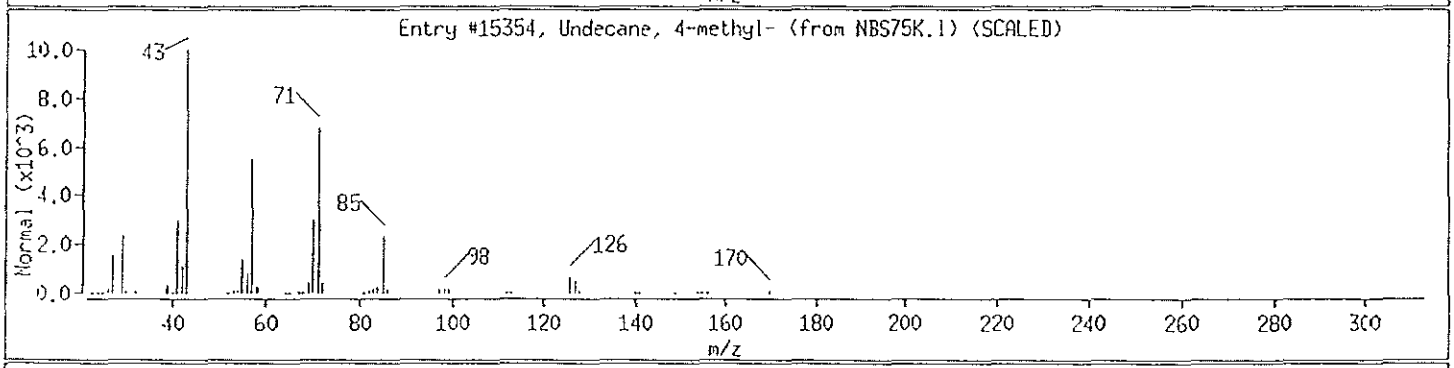
Column phase: J&W DB-5

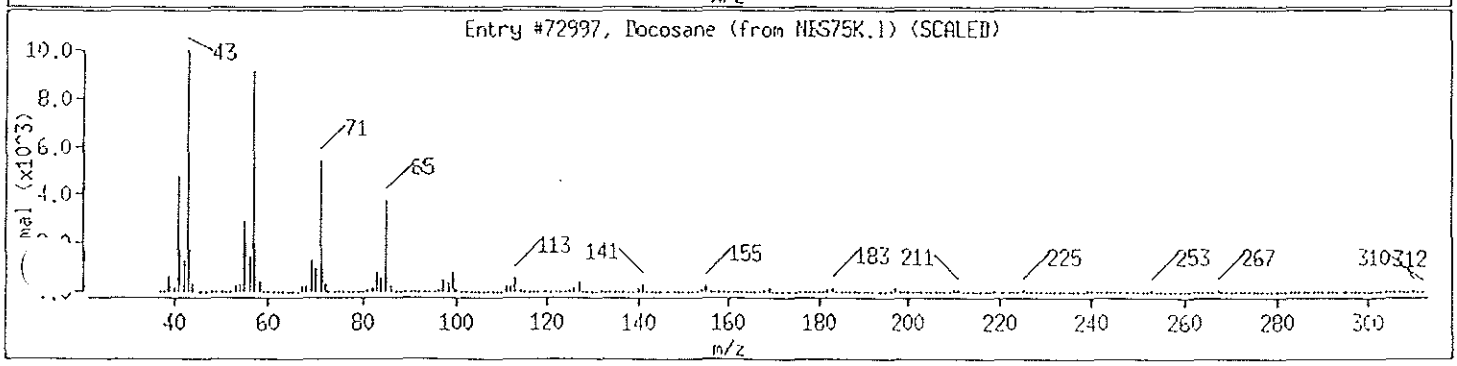
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexanol, 5-methyl-2-(1-methylethyl)	490-99-3	NBS75K.1	67307	35	C10H20O	156
Undecane, 4-methyl-	2980-69-0	NBS75K.1	15354	35	C12H26	170
Docosane	629-97-0	NBS75K.1	72997	35	C22H46	310









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Date : 19-JAN-96 17:46

Client ID:

Instrument: msb.i

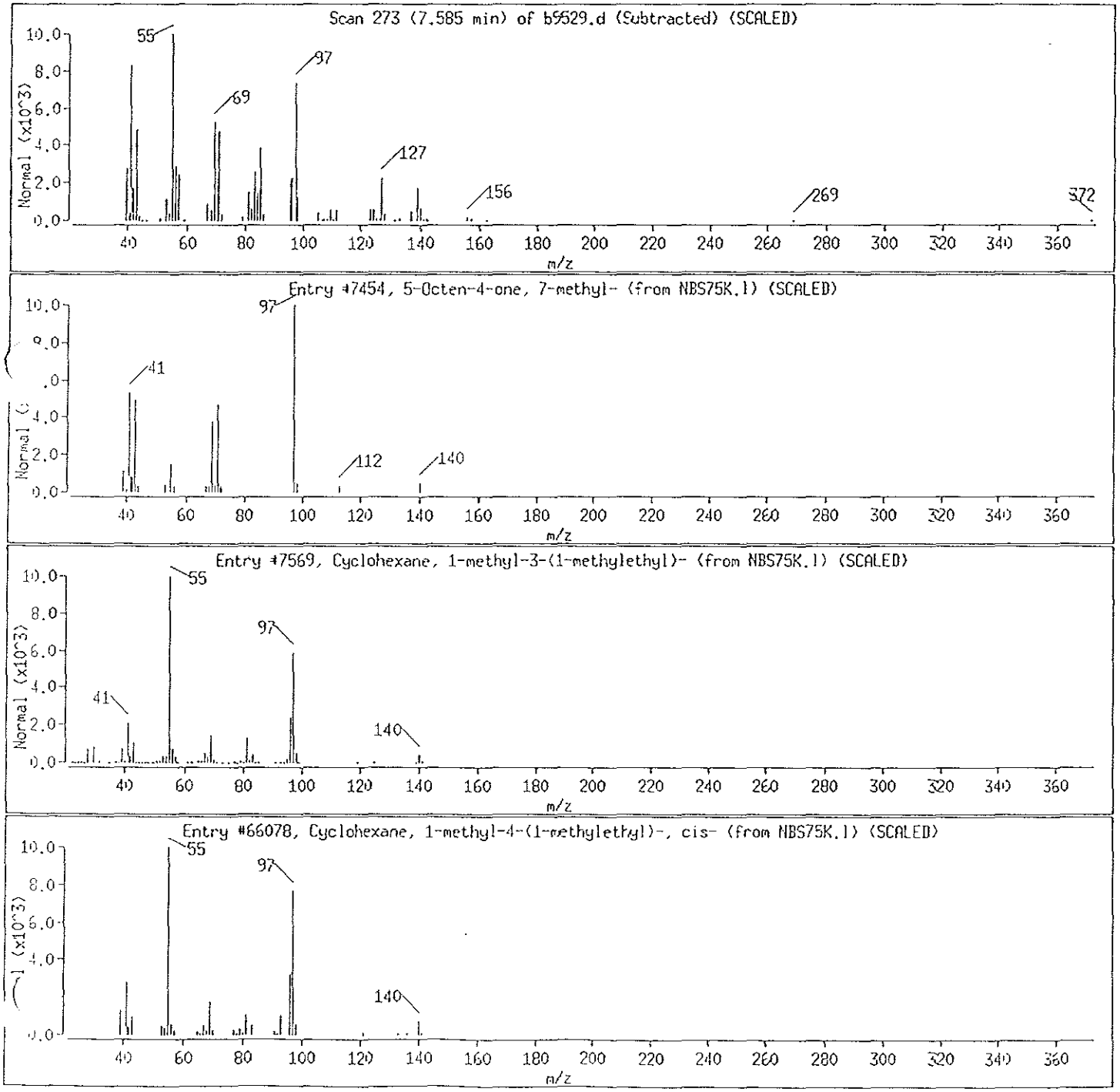
Sample Info: 17418n clj78cs005

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
5-Octen-4-one, 7-methyl-	32064-78-1	NBS75K.l	7454	35	C9H16O	140
Cyclohexane, 1-methyl-3-(1-methylethyl)-	16580-24-8	NBS75K.l	7569	30	C10H20	140
Cyclohexane, 1-methyl-4-(1-methylethyl)-	6069-98-3	NBS75K.l	66078	30	C10H20	140



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Date : 19-JAN-96 17:46

Client ID:

Instrument: msb.i

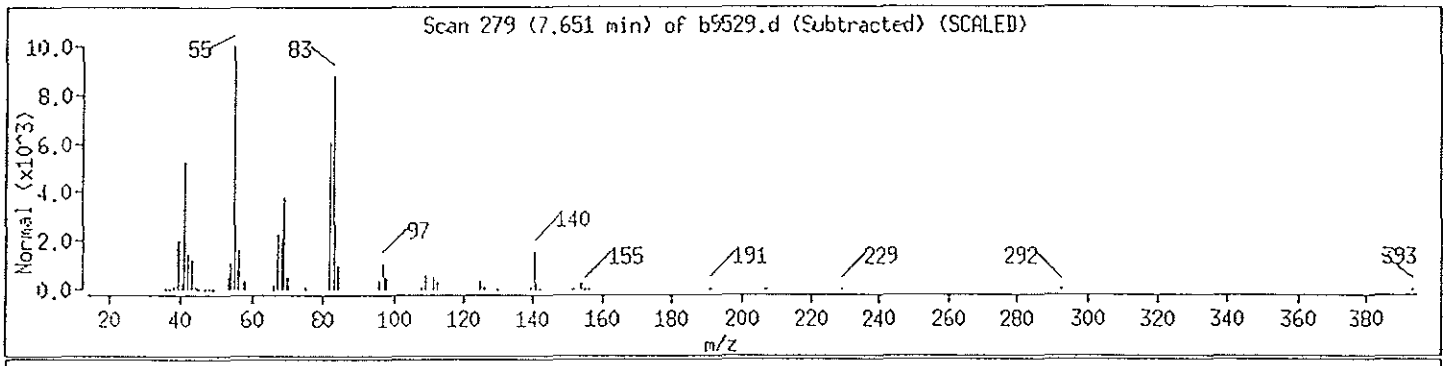
Sample Info: 17418n clj78cs005

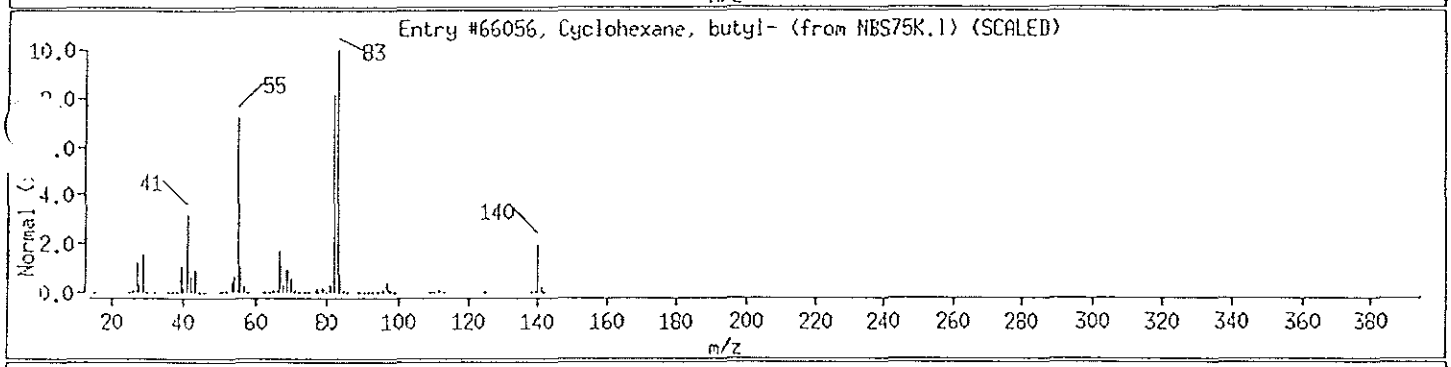
Operator: K. Bigelow

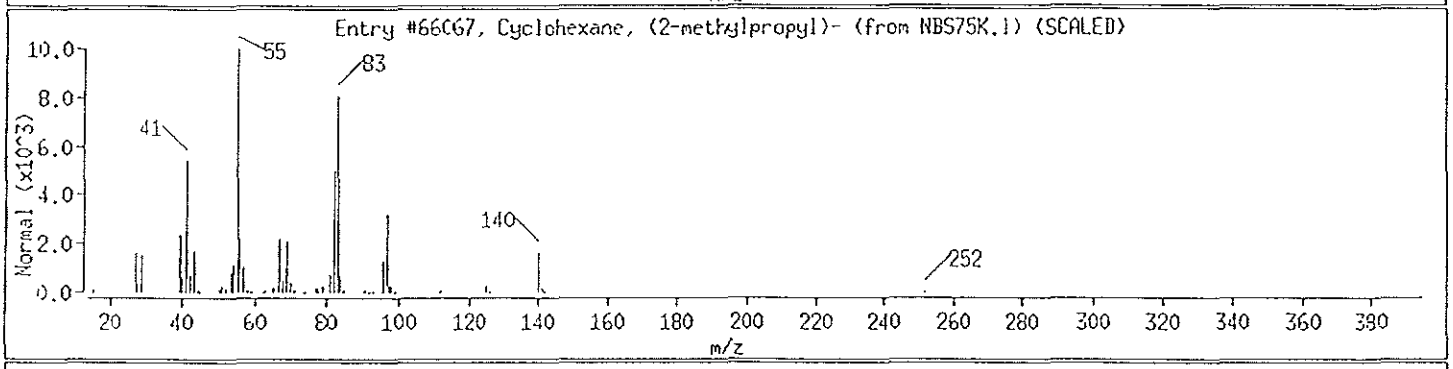
Column phase: J&W DB-5

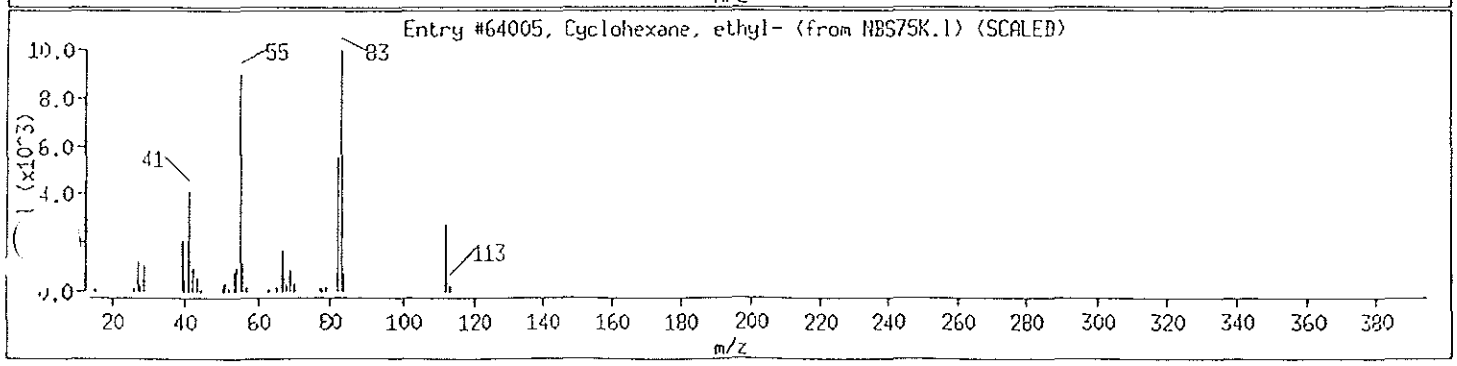
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexane, butyl-	1678-93-9	NBS75K.l	66056	87	C10H20	140
Cyclohexane, (2-methylpropyl)-	1678-98-4	NBS75K.l	66067	81	C10H20	140
Cyclohexane, ethyl-	1678-91-7	NBS75K.l	64005	81	C8H16	112









Data File: /chem/aux/msb.i/b011996.b/b9529.d

Date : 19-JAN-96 17:46

Client ID:

Instrument: msb.i

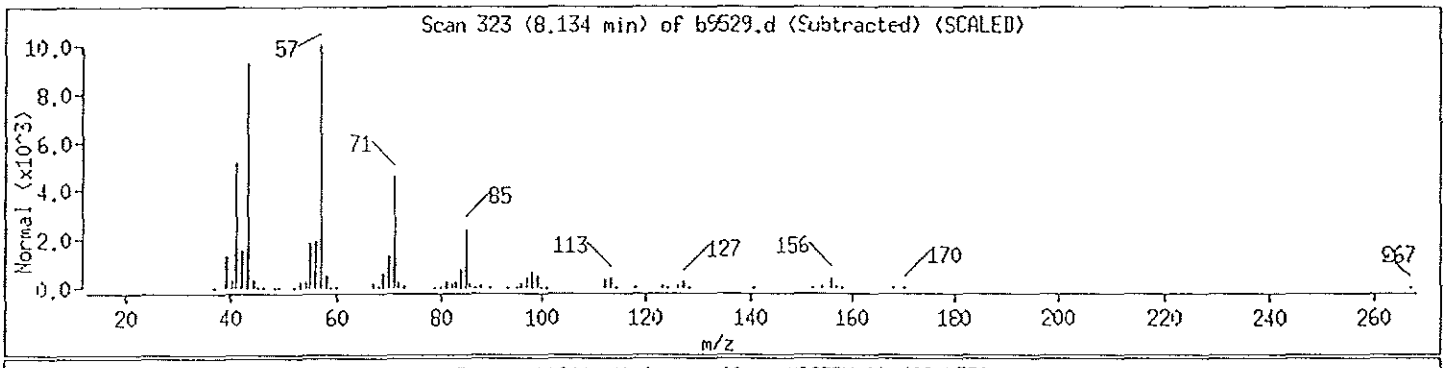
Sample Info: 17418n clj78cs005

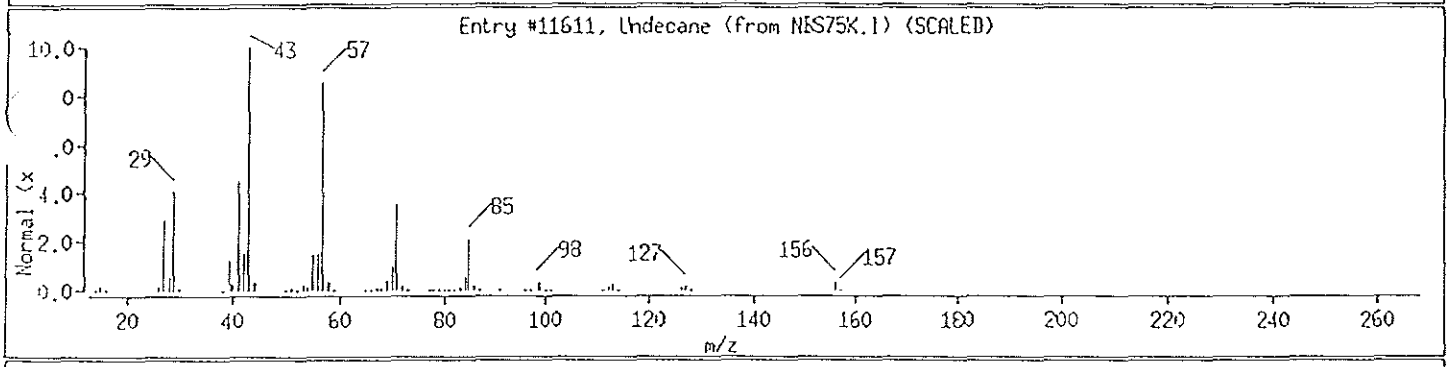
Operator: K. Bigelow

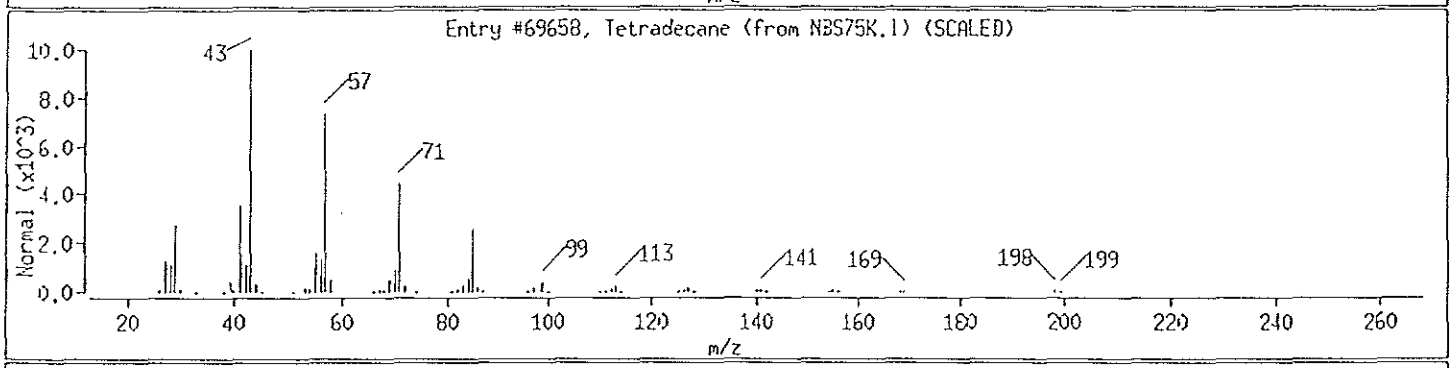
Column phase: J&W DB-5

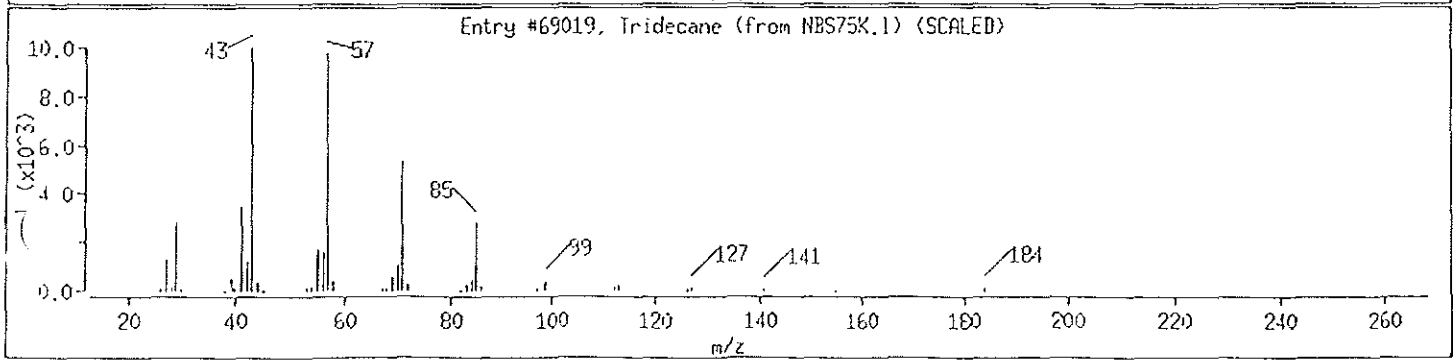
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Undecane	1120-21-4	NBS75K.l	11611	97	C11H24	156
Tetradecane	629-59-4	NBS75K.l	69658	86	C14H30	198
Tridecane	629-50-5	NBS75K.l	69019	86	C13H28	184









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Date : 19-JAN-96 17:46

Client ID:

Instrument: msb.i

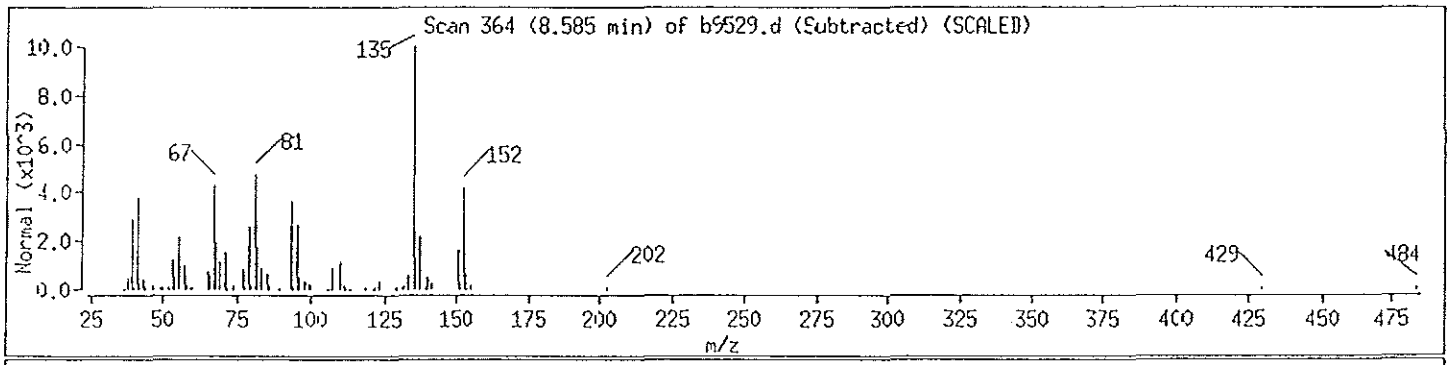
Sample Info: 17418n clj78cs005

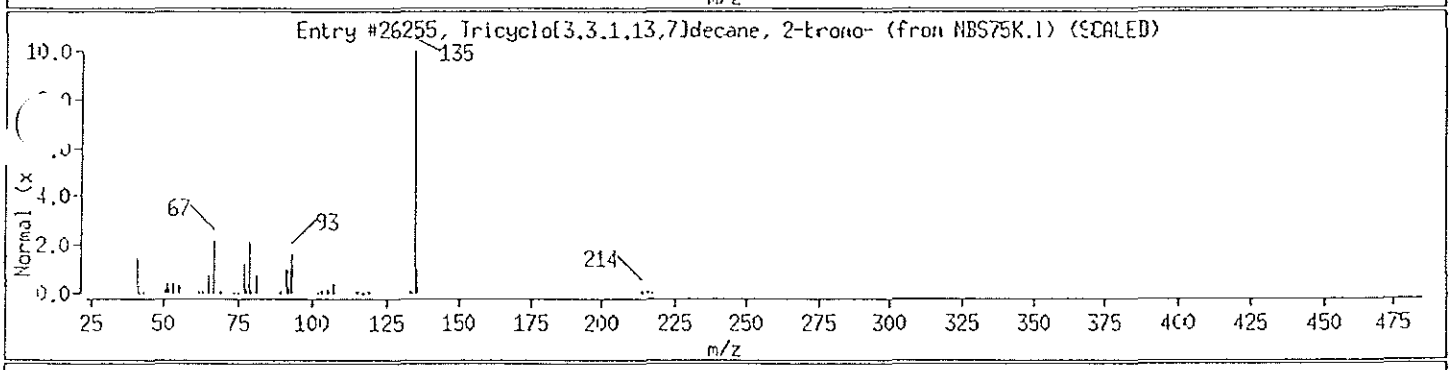
Operator: K. Bigelow

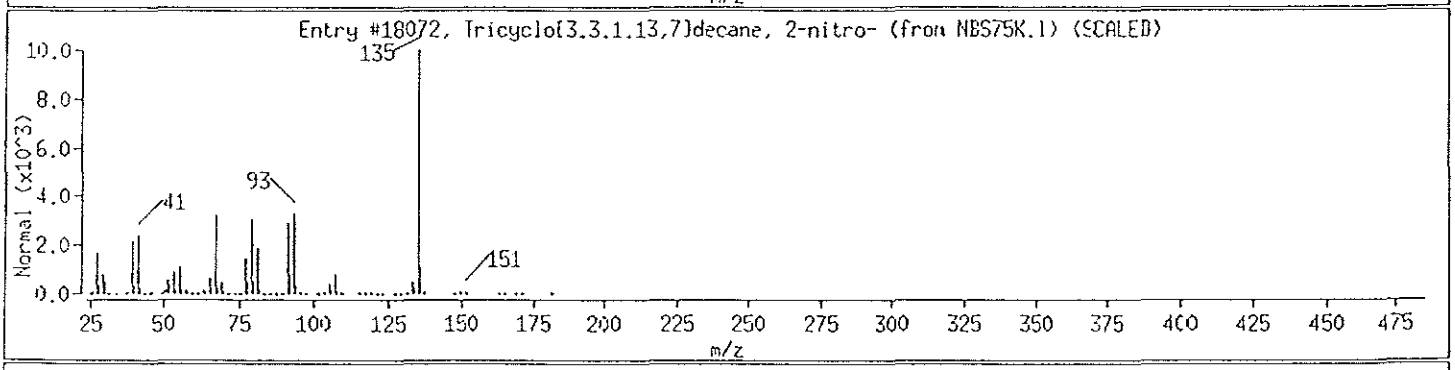
Column phase: J&W DB-5

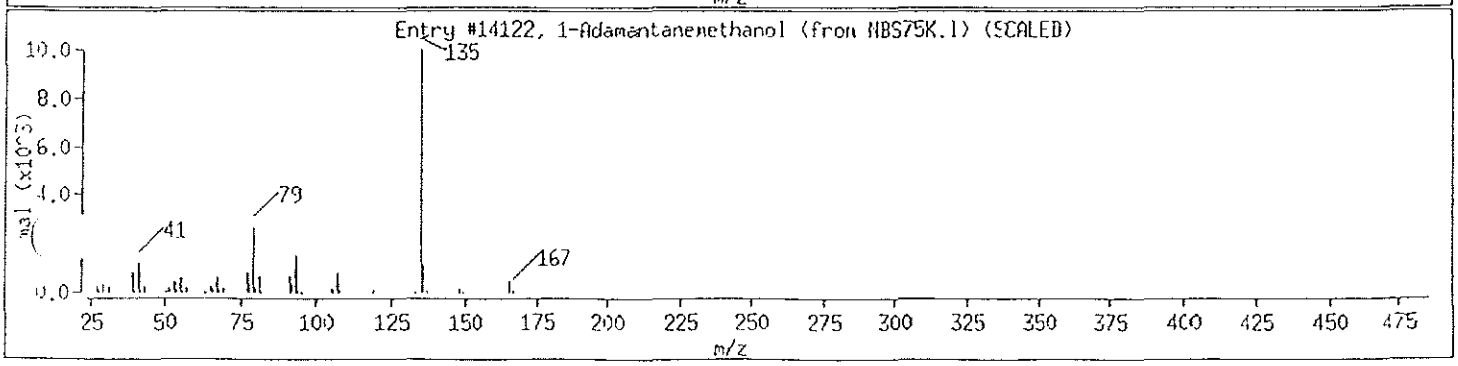
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tricyclo[3.3.1.13,7]decane, 2-bromo-	7314-85-4	NBS75K.l	26255	38	C10H15Br	214
Tricyclo[3.3.1.13,7]decane, 2-nitro-	54564-31-7	NBS75K.l	18072	37	C10H15NO2	181
1-Adamantanemethanol	770-71-8	NBS75K.l	14122	35	C11H18O	166









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Date : 19-JAN-96 17:46

Client ID:

Instrument: msb.i

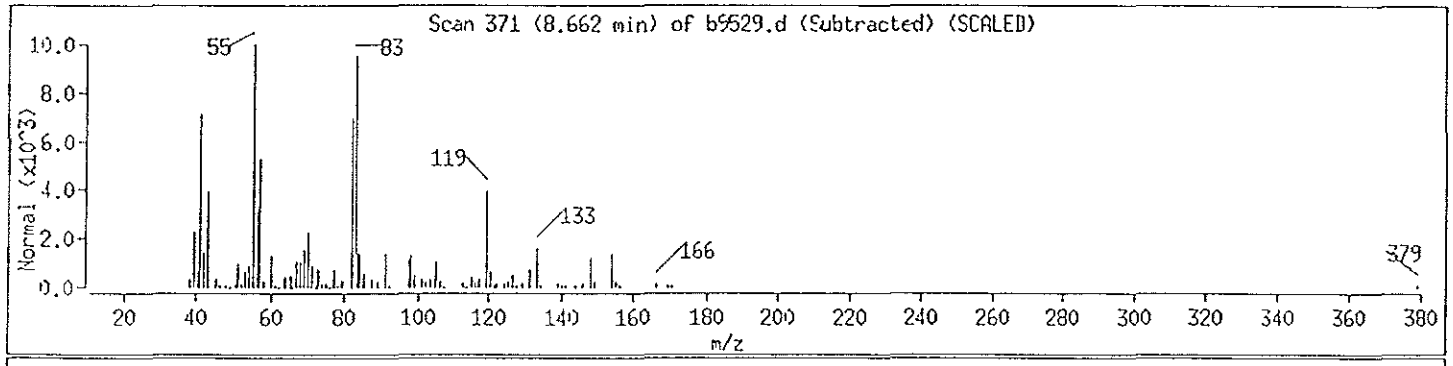
Sample Info: 17418n clj78cs005

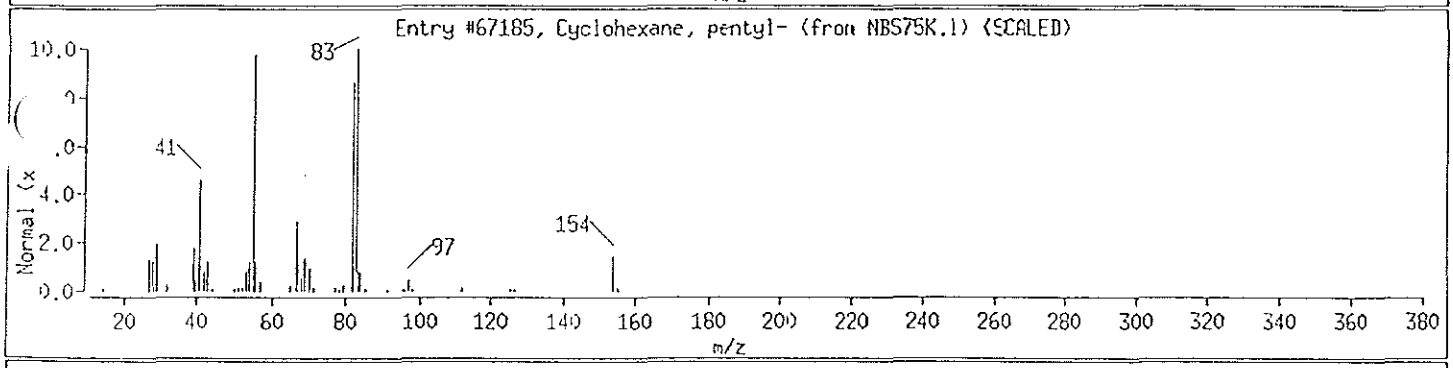
Operator: K. Bigelow

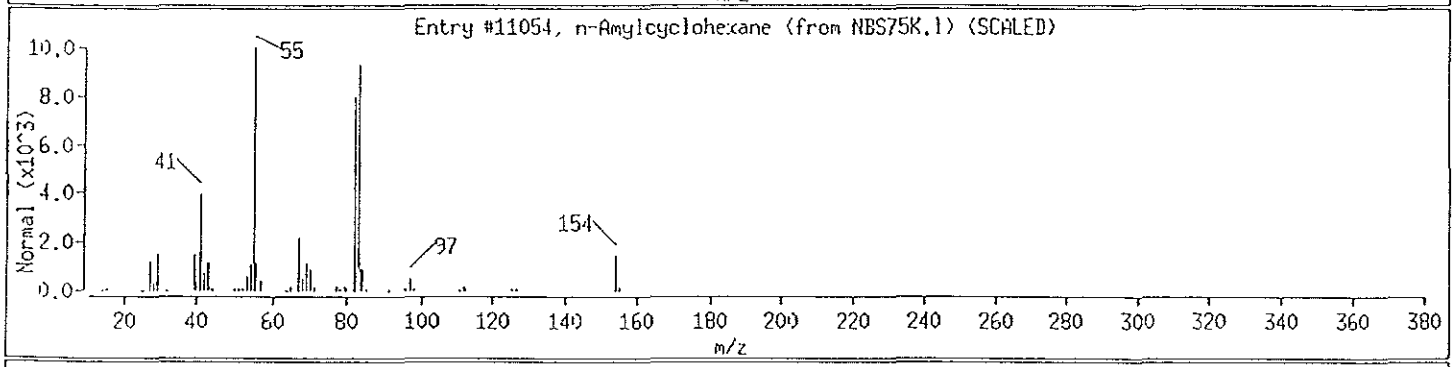
Column phase: J&W DB-5

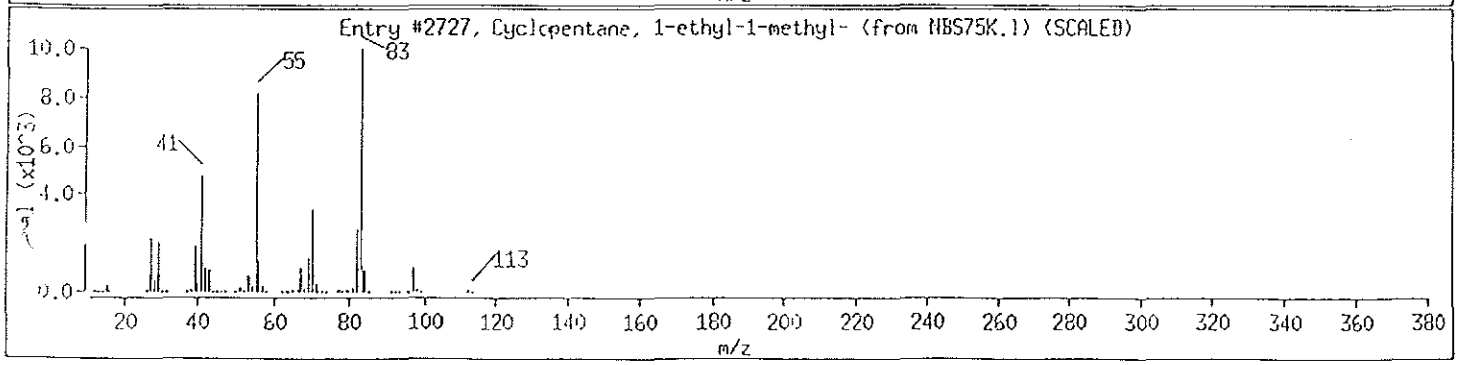
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexane, pentyl-	4292-92-6	NBS75K.1	67185	49	C11H22	154
n-Amylcyclohexane	29949-27-7	NBS75K.1	11054	49	C11H22	154
Cyclopentane, 1-ethyl-1-methyl-	16747-50-5	NBS75K.1	2727	43	C8H16	112









Data File: /chem/aux/msb.i/b011996.b/b9529.d

Date : 19-JAN-96 17:46

Client ID:

Instrument: msb.i

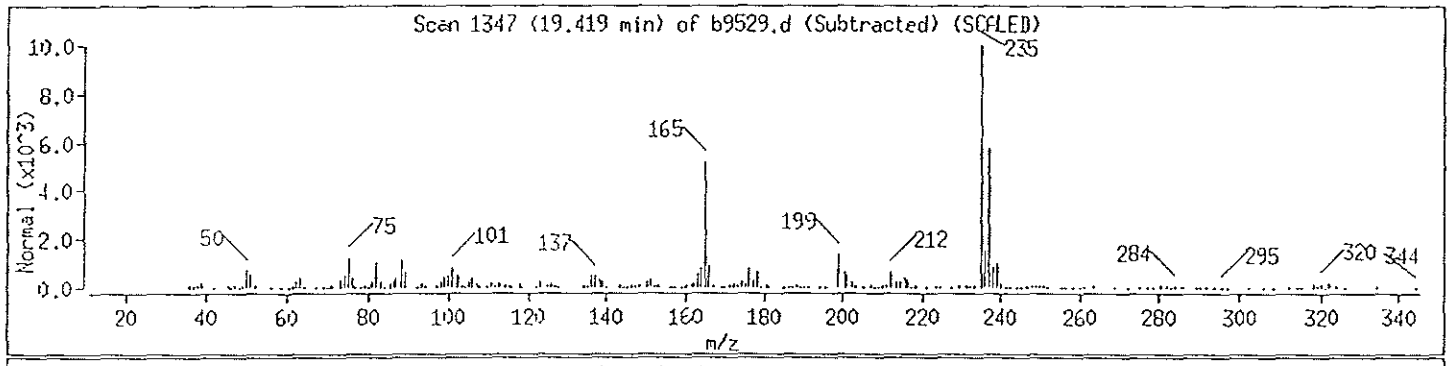
Sample Info: 17418n clj78cs005

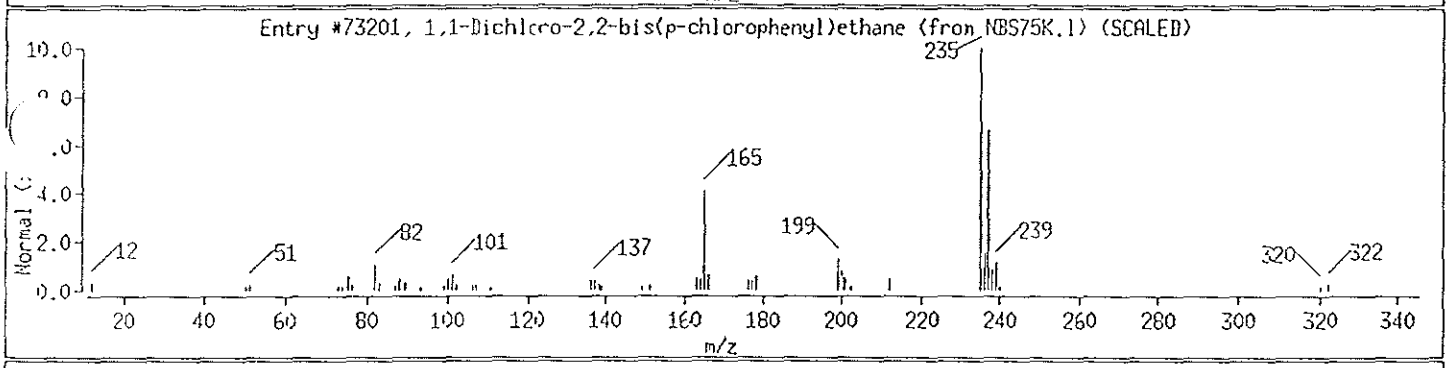
Operator: K. Bigelow

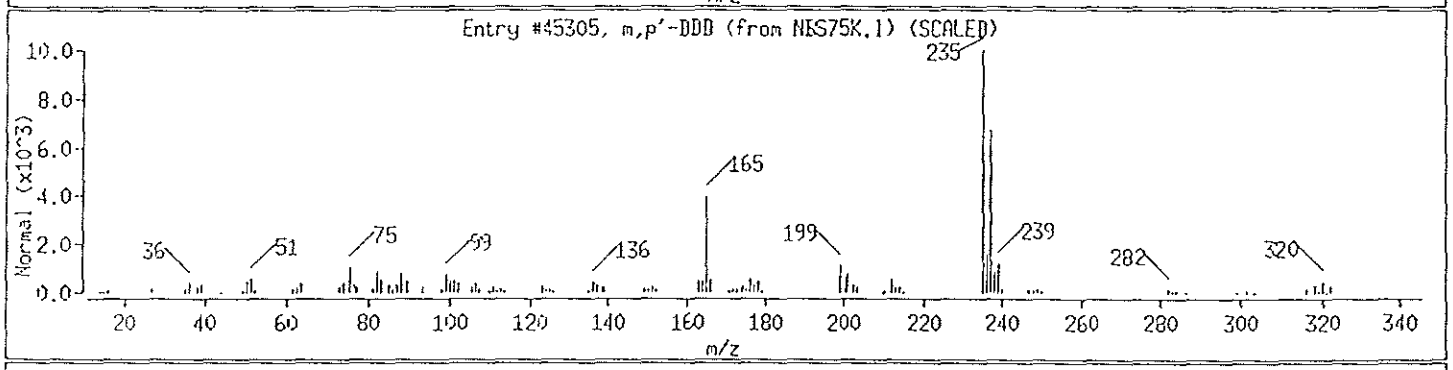
Column phase: J&W DB-5

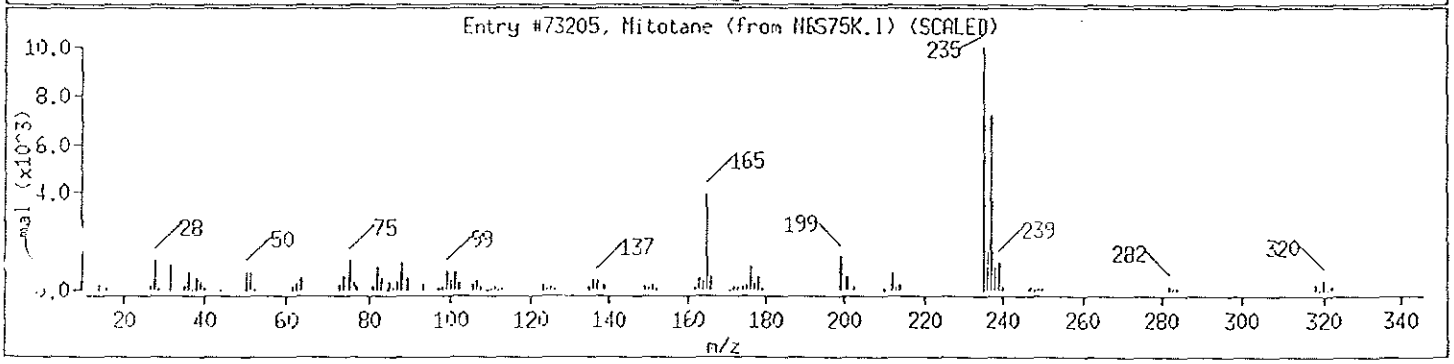
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,1-Dichloro-2,2-bis(p-chlorophenyl)etha	72-54-8	NBS75K.l	73201	99	C14H10Cl4	318
m,p'-DDD	4329-12-8	NBS75K.l	45305	93	C14H10Cl4	318
Mitotane	53-19-0	NBS75K.l	73205	90	C14H10Cl4	318









Data File: /chem/aux/msb.i/b011996.b/b9529.d

Date : 19-JAN-96 17:46

Client ID:

Instrument: msb.i

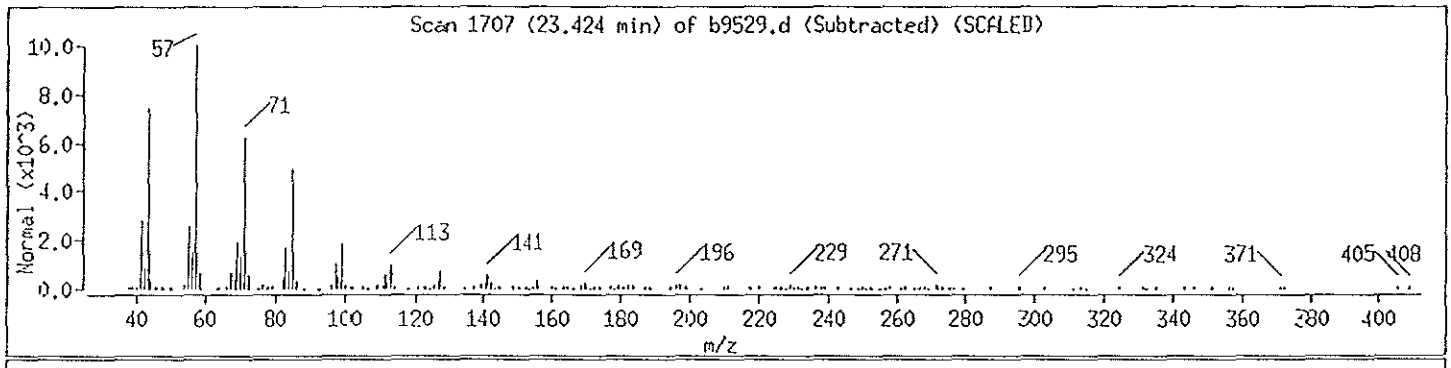
Sample Info: 17418n clj78cs005

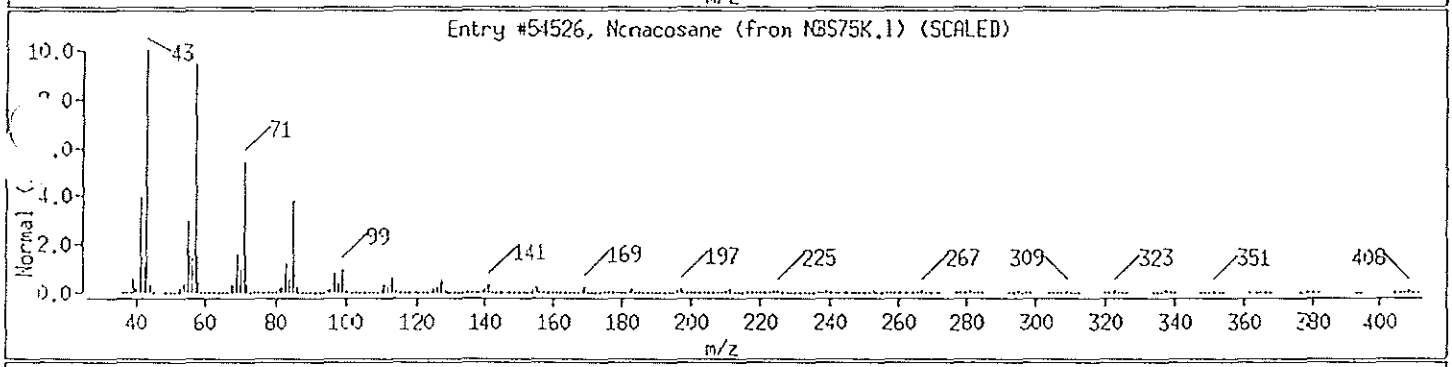
Operator: K. Bigelow

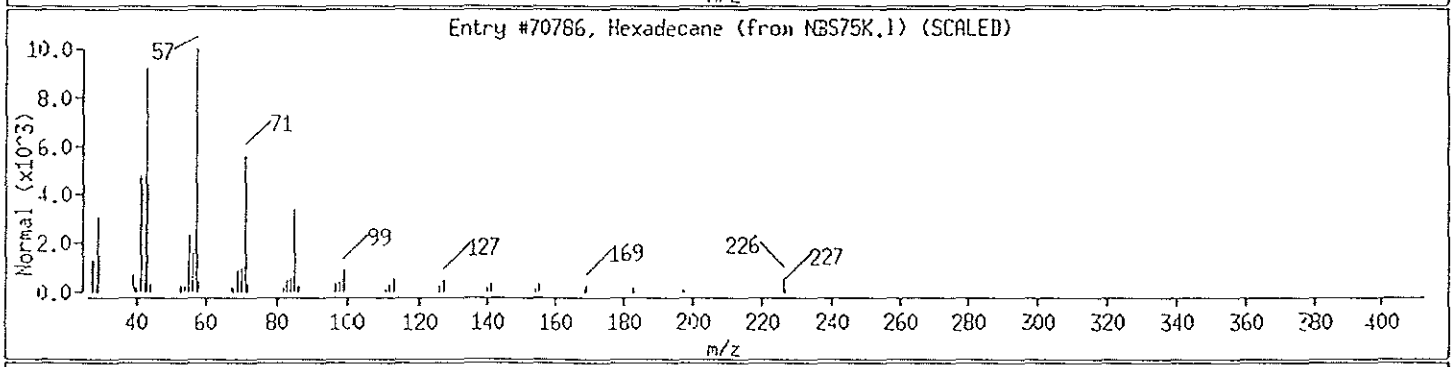
Column phase: J&W DB-5

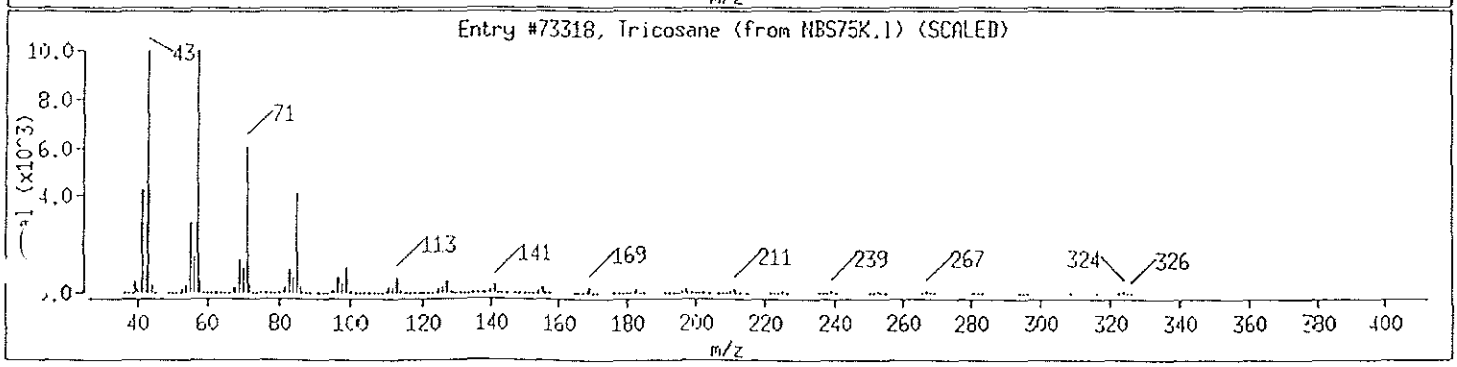
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonacosane	630-03-5	NBS75K.l	54526	95	C29H60	408
Hexadecane	544-76-3	NBS75K.l	70786	94	C16H34	226
Tricosane	638-67-5	NBS75K.l	73318	93	C23H48	324









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Date : 19-JAN-96 17:46

Client ID:

Instrument: msb.i

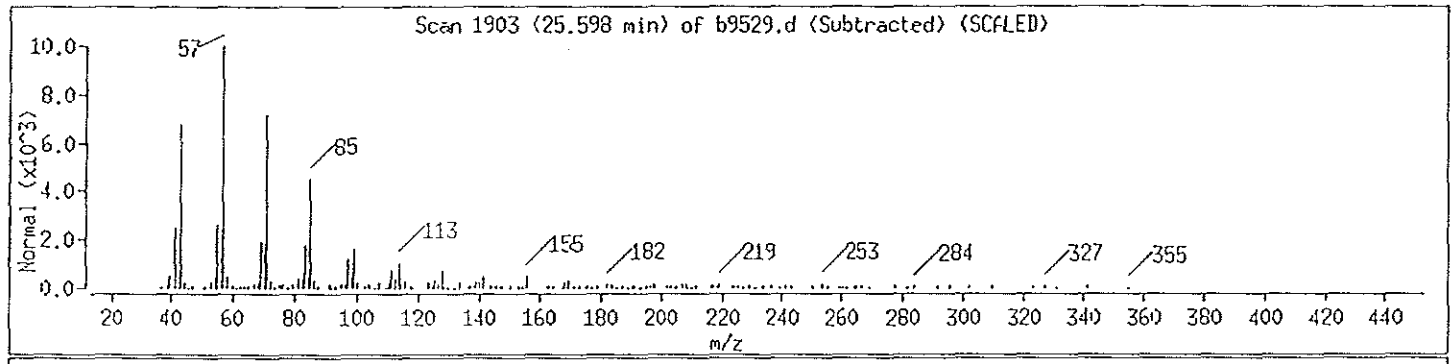
Sample Info: 17418n clj78cs005

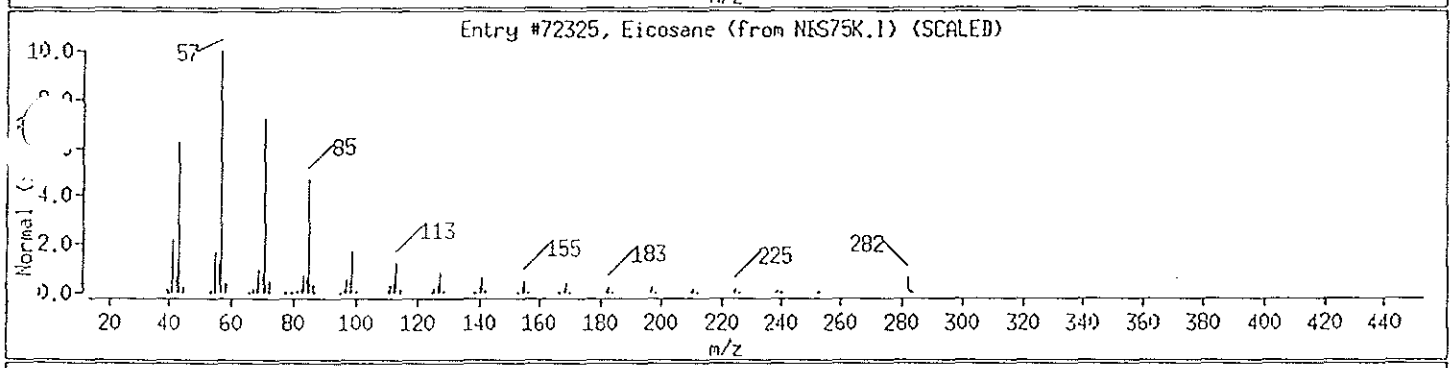
Operator: K. Bigelow

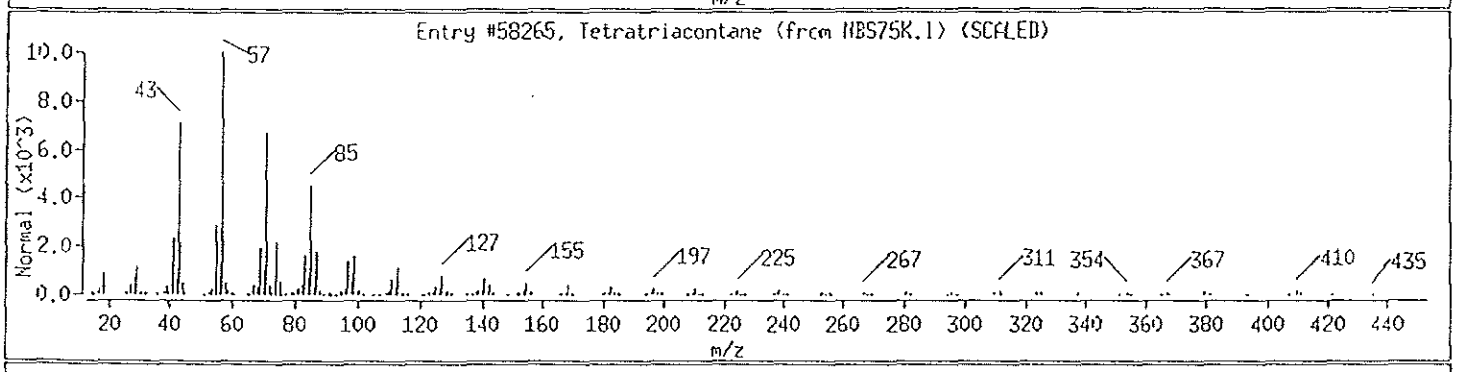
Column phase: J&W DB-5

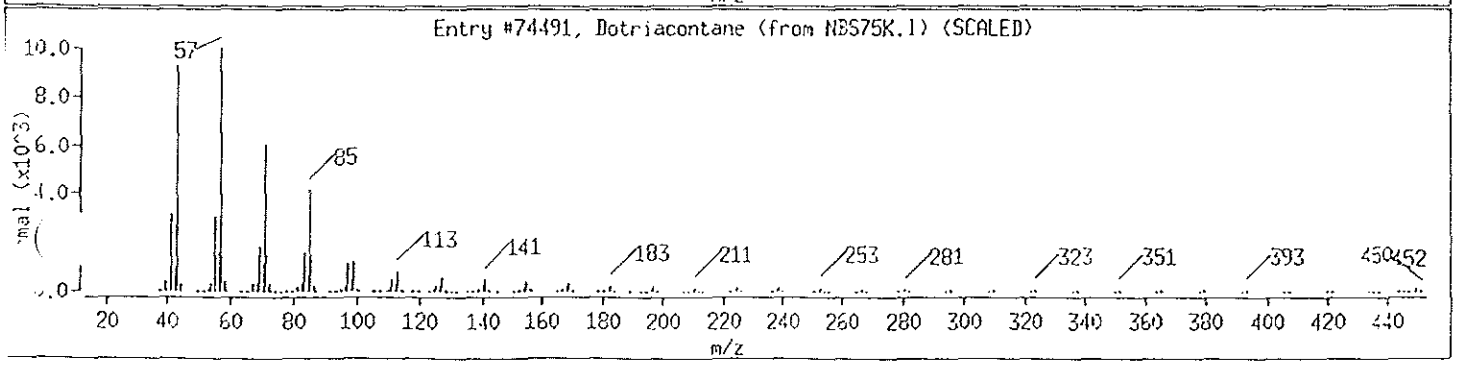
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Eicosane	112-95-8	NBS75K.l	72325	97	C20H42	282
Tetratriacontane	14167-59-0	NBS75K.l	58265	91	C34H70	479
Dotriacontane	544-85-4	NBS75K.l	74491	91	C32H66	451









1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0357 EPA SAMPLE NO.

CLJ78DS005

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2496C

Sample wt/vol: 30.4 (g/mL) G Lab File ID: B9530

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: 16 decanted: (Y/N) N Date Extracted: 01/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	390	U
111-44-4	bis(2-Chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	390	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 0358

EPA SAMPLE NO.

CLJ78DS005

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2496C

Sample wt/vol: 30.4 (g/mL) G Lab File ID: B9530

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: 16 decanted: (Y/N) N Date Extracted: 01/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2000	U
100-02-7	4-Nitrophenol	2000	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	980	U
101-55-3	4-Bromophenyl-phenylether	390	U
86-30-6	N-Nitrosodiphenylamine (1)	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	390	U
129-00-0	Pyrene	82	J
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	390	U
218-01-9	Chrysene	390	U
117-81-7	bis(2-Ethylhexyl)phthalate	3400	
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
53-70-3	Dibenz(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0359 EPA SAMPLE NO.

CLJ78DS005

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2496C

Sample wt/vol: 30.4 (g/mL) G Lab File ID: B9530

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: 16 decanted: (Y/N) N Date Extracted: 01/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 20

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

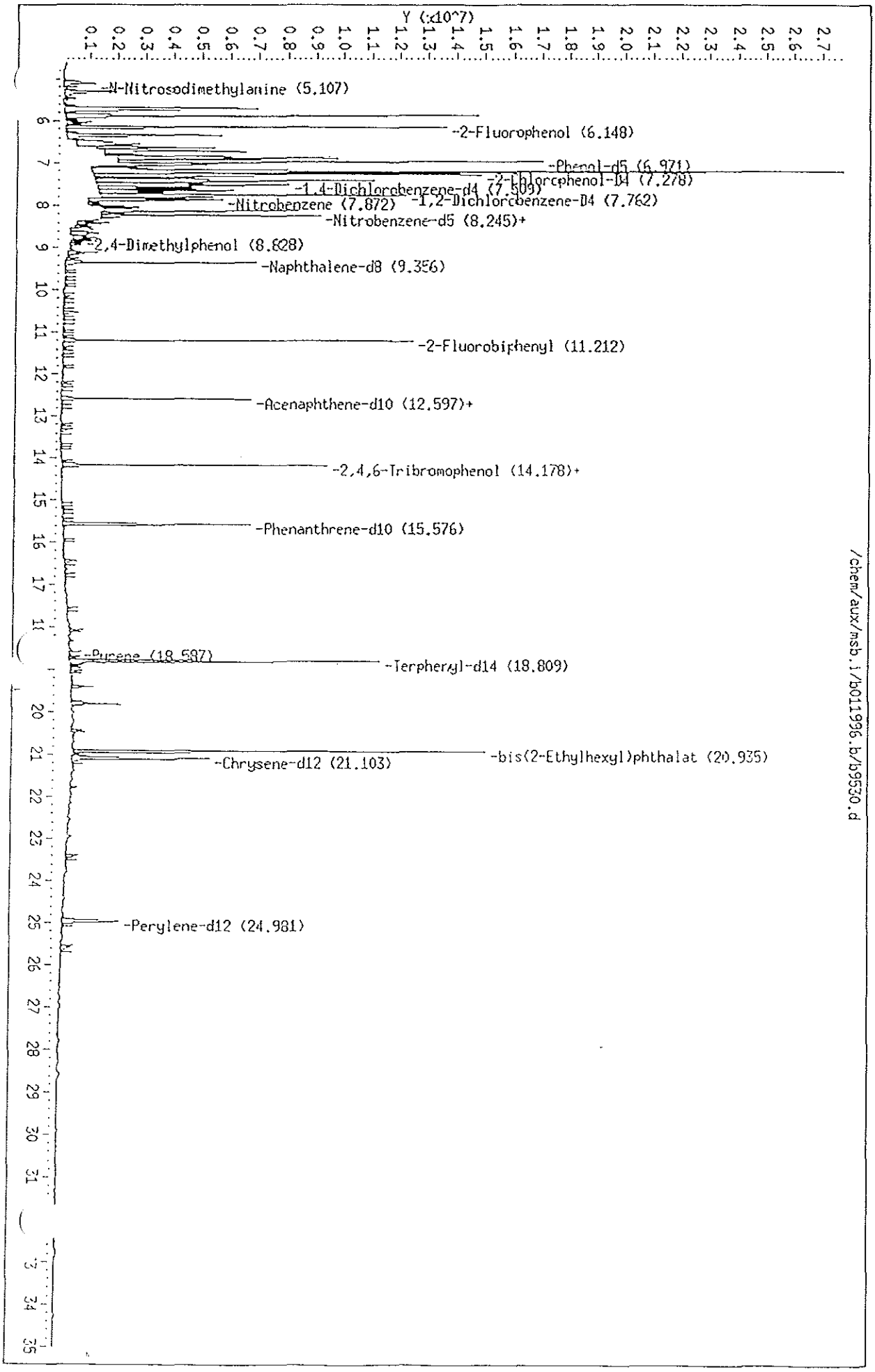
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	5.32	560	J
2. 123-42-2	2-Pentanone, 4-hydroxy-4-met	5.87	2600	JNA
3. 111-84-2	Nonane	6.33	1200	JN
4.	Unk hydrocarbon	6.55	920	J
5. 5911-04-6	Nonane, 3-methyl-	6.63	700	JN
6.	unknown	6.73	1300	J
7.	Unk hydrocarbon	6.83	640	J
8.	Unk hydrocarbon	6.88	2000	J
9.	unknown	7.11	370	J
10. 124-18-5	Decane	7.20	5600	JN
11.	Unk hydrocarbon	7.34	660	J
12. 2847-72-5	Decane, 4-methyl-	7.41	2000	JN
13.	unknown	7.48	670	J
14.	unknown	7.59	690	J
15. 1678-93-9	Cyclohexane, butyl-	7.65	1200	JN
16. 13151-35-4	Decane, 5-methyl-	7.73	400	JN
17. 1120-21-4	Undecane	8.14	980	JN
18.	unknown	8.59	310	J
19.	unknown	8.66	330	J
20. 103-23-1	Hexanedioic acid, bis(2-ethy	19.82	450	JN

Data File: /chem/aux/msb.i/b011996.b/b9530.d
Date : 19-JAN-96 18:33
Client ID:
Sample Info: 17418n clj78ds005

Column phase: J&W DB-5

Instrument: msb.i

Operator: K. Bigelow
Column diameter: 0.25



Data File: /chem/aux/msb.i/b011996.b/b9530.d
Report Date: 20-Jan-1996 09:20

OHM Analytical Division

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/aux/msb.i/b011996.b/b9530.d
Lab Smp Id:
Inj Date : 19-JAN-96 18:33
Operator : K. Bigelow Inst ID: msb.i
Smp Info : 17418n clj78ds005
Misc Info : jp2496c,n2c60119,ml,1,1
Comment :
Method : /chem/aux/msb.i/b011996.b/0112996bclp.m
Meth Date : 20-Jan-1996 09:14 kathryn Quant Type: ISTD
Cal Date : 19-JAN-96 10:44 Cal File: b9520.d
Als bottle: 12
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

KBigelow

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
	1	N-Nitrosodimethylamine	42.00	5.107	5.064	(0.680)	174836	4.49	~~4.49~~(Q) ND, Rt, MS
S	3	2-Fluorophenol	112.00	6.148	6.157	(0.819)	5347933	111	111(R)
S	4	Phenol-d5	99.00	6.971	6.976	(0.923)	6659754	104	104(QR)
S	7	2-Chlorophenol-D4	132.00	7.278	7.283	(0.969)	5676671	113	113(R)
*	10	1,4-Dichlorobenzene-d4	152.00	7.509	7.524	(1.000)	1574983	40.0	
S	13	1,2-Dichlorobenzene-D4	152.00	7.762	7.787	(1.034)	2622644	78.7	78.7(R)
S	19	Nitrobenzene-d5	82.00	8.245	8.269	(0.881)	3928583	72.8	72.8(R)
	20	Nitrobenzene	77.00	7.872	8.291	(0.841)	209852	3.98	~~3.98~~(Q) ND, Rt, MS
	21	Isophorone	82.00	8.245	8.597	(0.881)	3928583	35.3	~~35.3~~ ND, Rt, MS
	22	2,4-Dimethylphenol	107.00	8.828	8.674	(0.944)	144225	2.88	~~2.88~~(Q) ND, Rt
*	27	Naphthalene-d8	136.00	9.356	9.386	(1.000)	5192154	40.0	
S	37	2-Fluorobiphenyl	172.00	11.212	11.228	(0.890)	7383593	82.0	82.0(R)
*	44	Acenaphthene-d10	164.00	12.597	12.620	(1.000)	2800240	40.0	
	48	2,4-Dinitrotoluene	165.00	12.597	12.949	(1.000)	383190	10.4	~~10.4~~(Q) ND, Rt, MS
S	56	2,4,6-Tribromophenol	330.00	14.178	14.200	(1.125)	2349847	150	150(R)
	57	4-Bromophenyl-phenylether	248.00	14.178	14.595	(0.910)	169483	5.66	~~5.66~~(Q) ND, Rt, MS
*	60	Phenanthrene-d10	188.00	15.576	15.604	(1.000)	4436343	40.0	
	67	Pyrene	202.00	18.587	18.617	(0.881)	253736	2.09	2.09
S	68	Terphenyl-d14	244.00	18.809	18.826	(0.891)	7423953	88.6	88.6(R)
	70	bis(2-Ethylhexyl)phthalate	149.00	20.935	20.954	(0.992)	7696572	87.9	87.9
*	73	Chrysene-d12	240.00	21.103	21.131	(1.000)	3146193	40.0	
*	79	Perylene-d12	264.00	24.970	25.033	(1.000)	2450394	40.0	

Qflag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: /chem/aux/msb.i/b011996.b/b9530.d

Date : 19-JAN-96 18:33

Client ID:

Instrument: msb.i

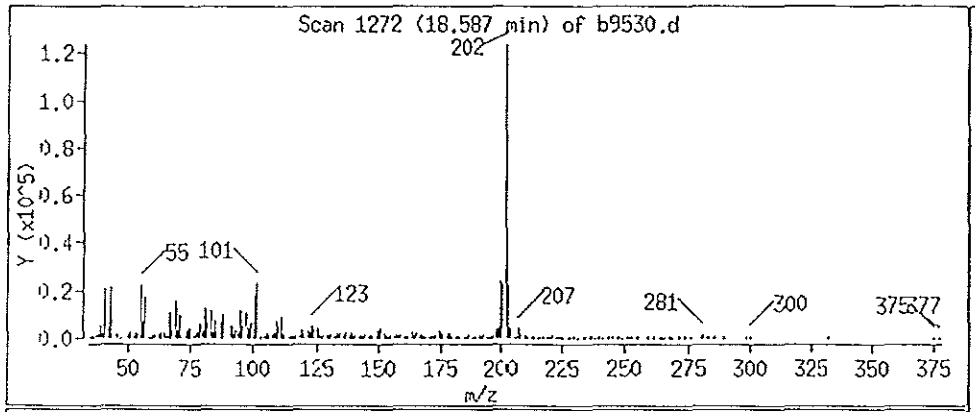
Sample Info: 17418n clj78ds005

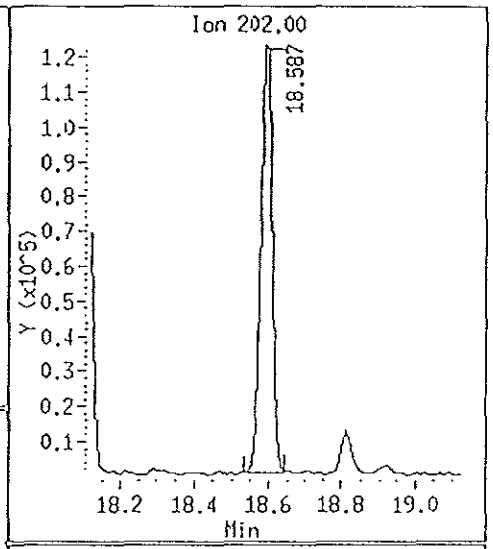
Operator: K. Bigelow

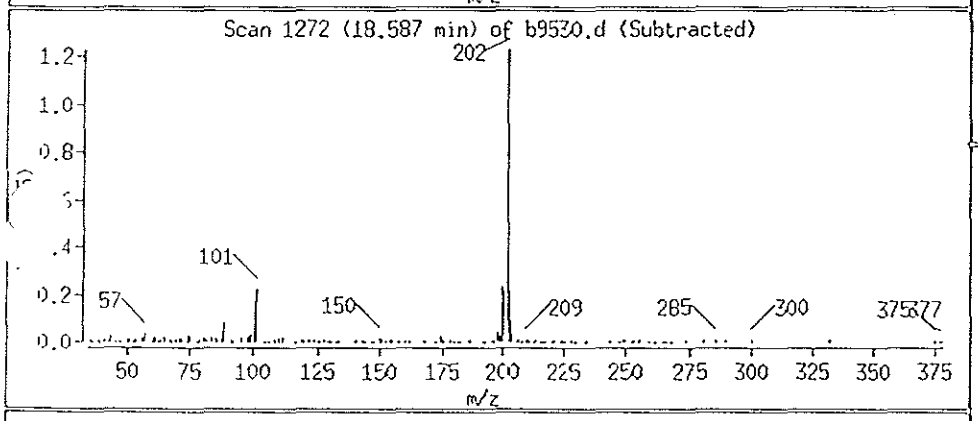
Column phase: J&W DB-5

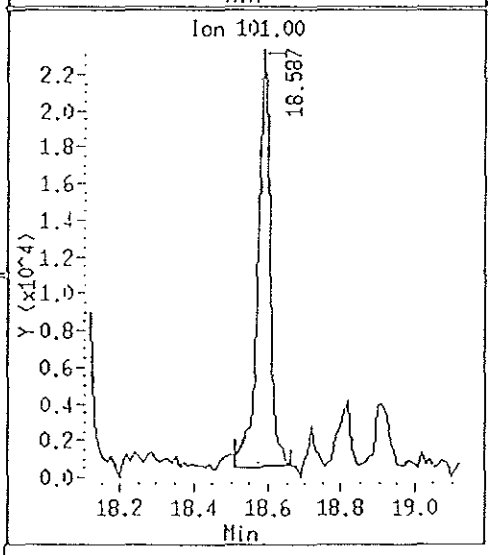
Column diameter: 0.25

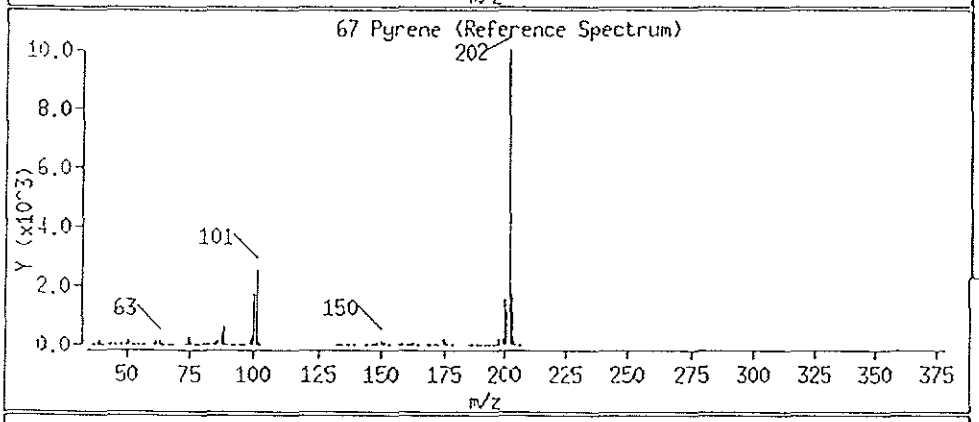
67 Pyrene

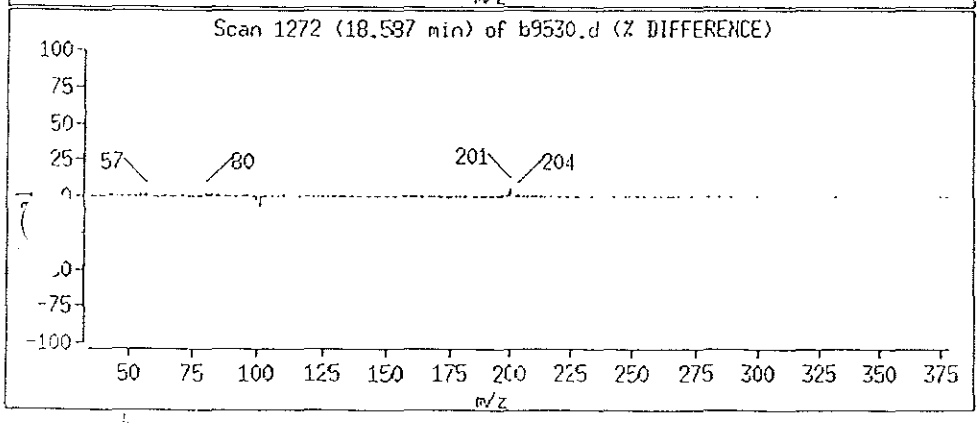












Data File: /chem/aux/msb.i/b011996.b/b9530.d

Date : 19-JAN-96 18:33

Client ID:

Instrument: msb.i

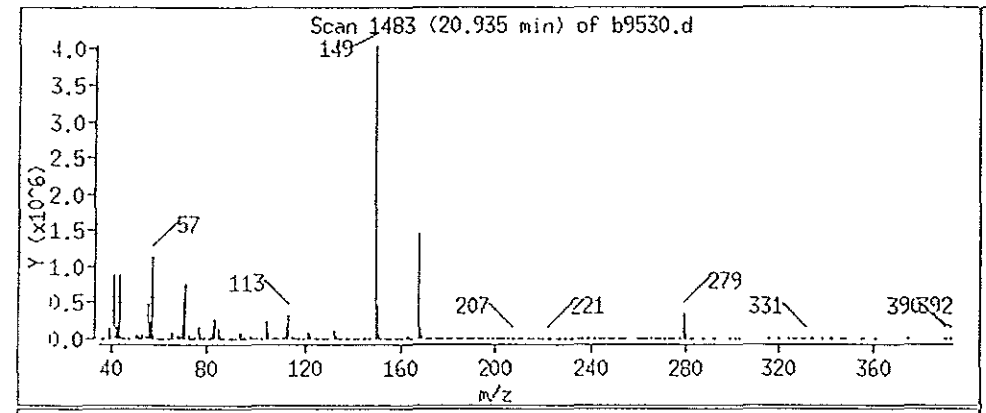
Sample Info: 17418n clj78ds005

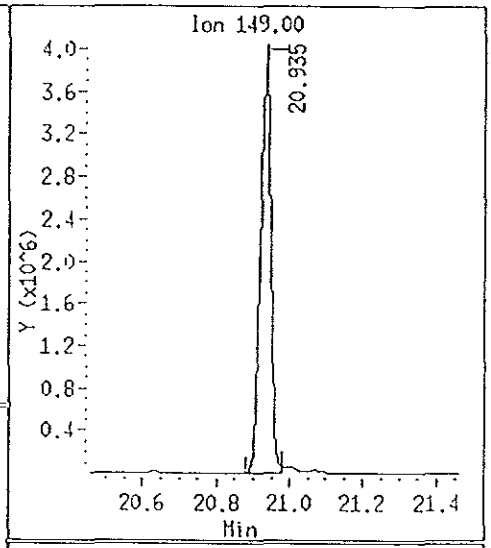
Operator: K. Bigelow

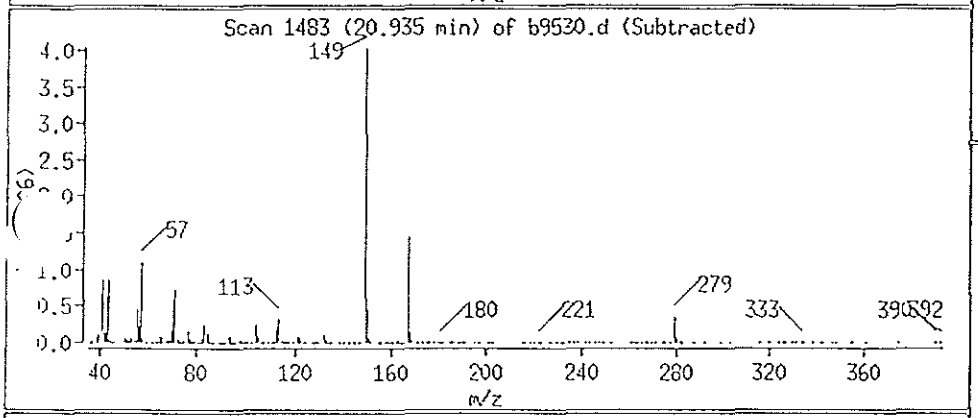
Column phase: J&W DB-5

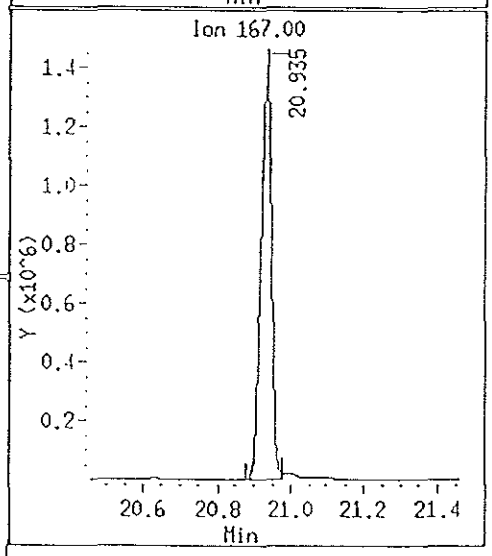
Column diameter: 0.25

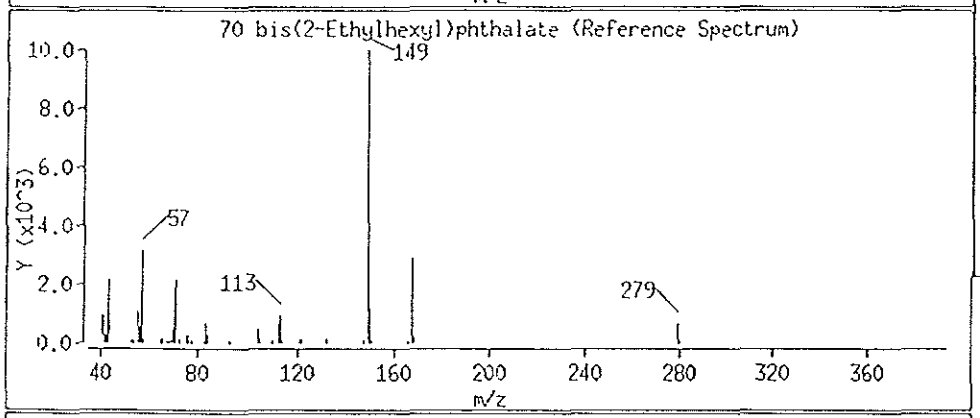
70 bis(2-Ethylhexyl)phthalate

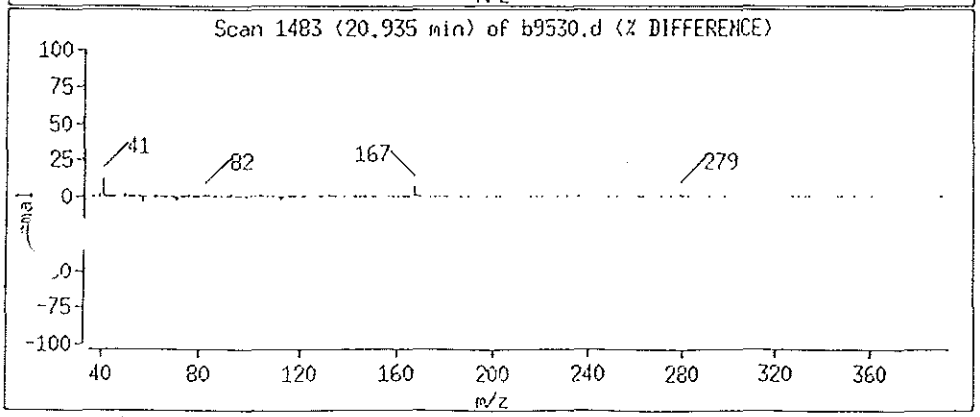












Data File: /chem/aux/msb.i/b011996.b/b9530.d

Date : 19-JAN-96 18:33

Client ID:

Instrument: msb.i

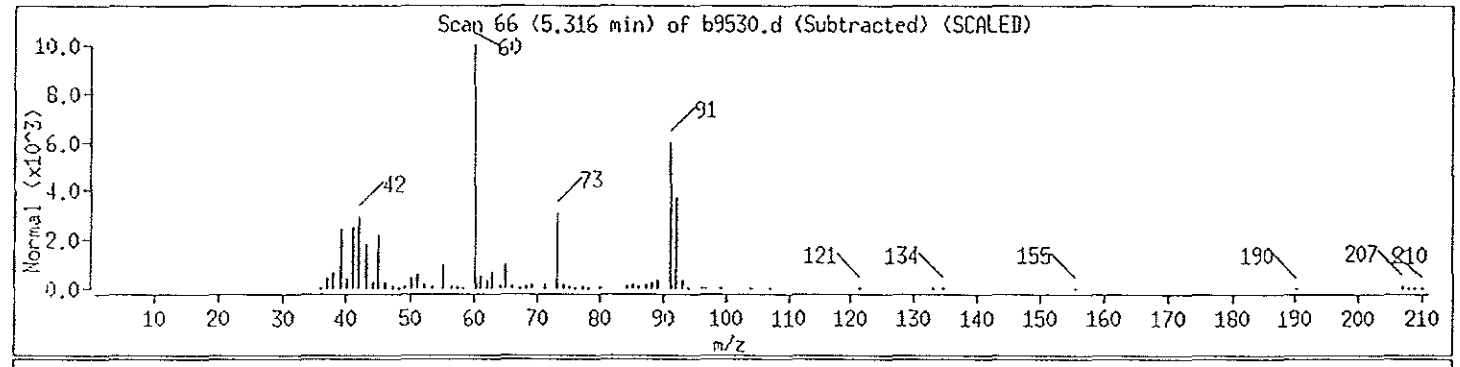
Sample Info: 17418n clj78ds005

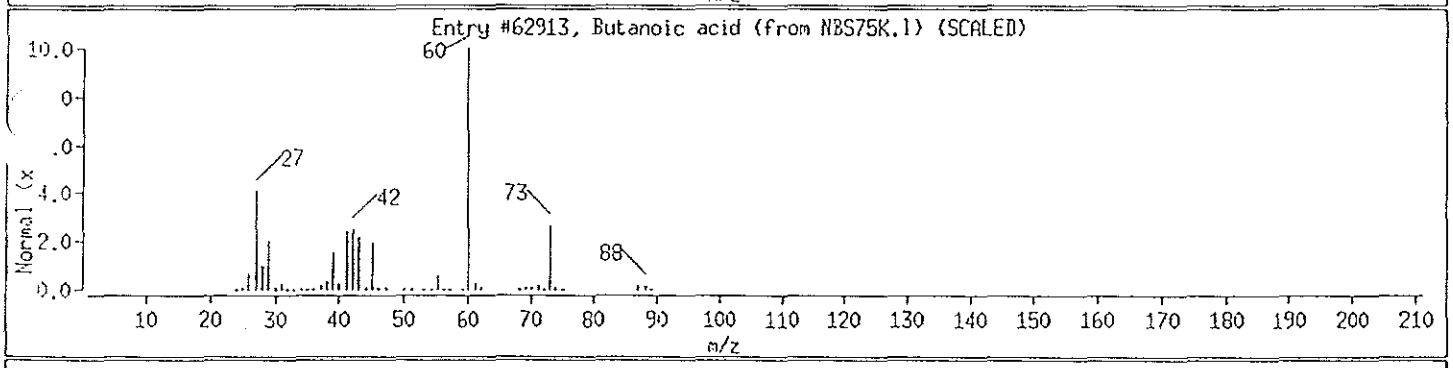
Operator: K. Bigelow

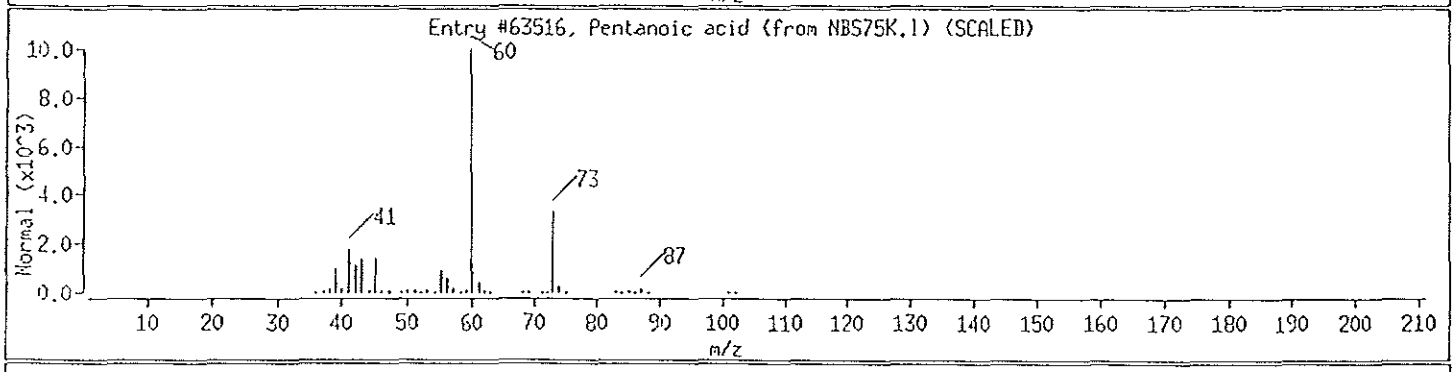
Column phase: J&W DB-5

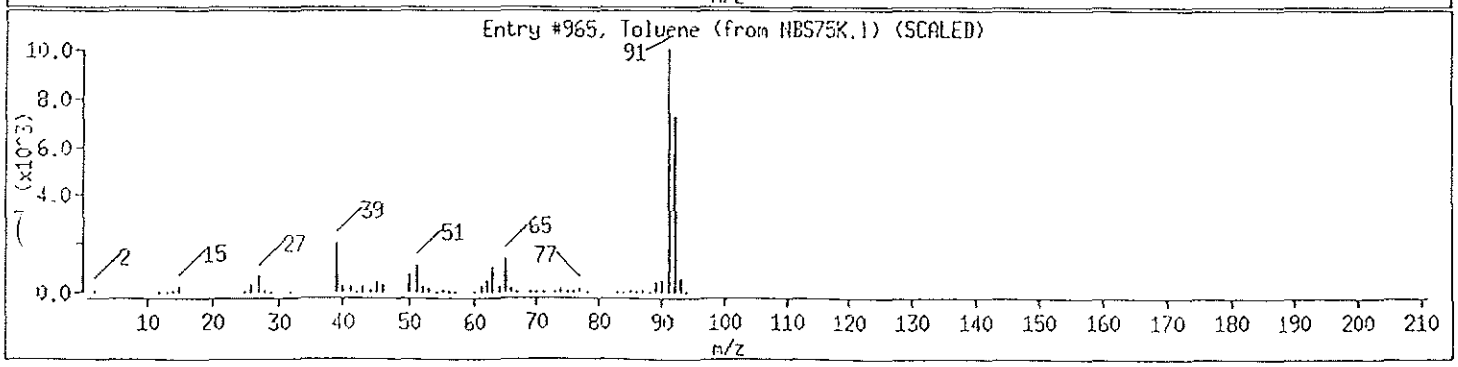
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butanoic acid	107-92-6	NBS75K.l	62913	76	C4H8O2	88
Pentanoic acid	109-52-4	NBS75K.l	63516	42	C5H10O2	102
Toluene	108-88-3	NBS75K.l	965	25	C7H8	92









Data File: /chem/aux/msb.i/b011996.b/b9530.d

Date : 19-JAN-96 18:33

Client ID:

Instrument: msb.i

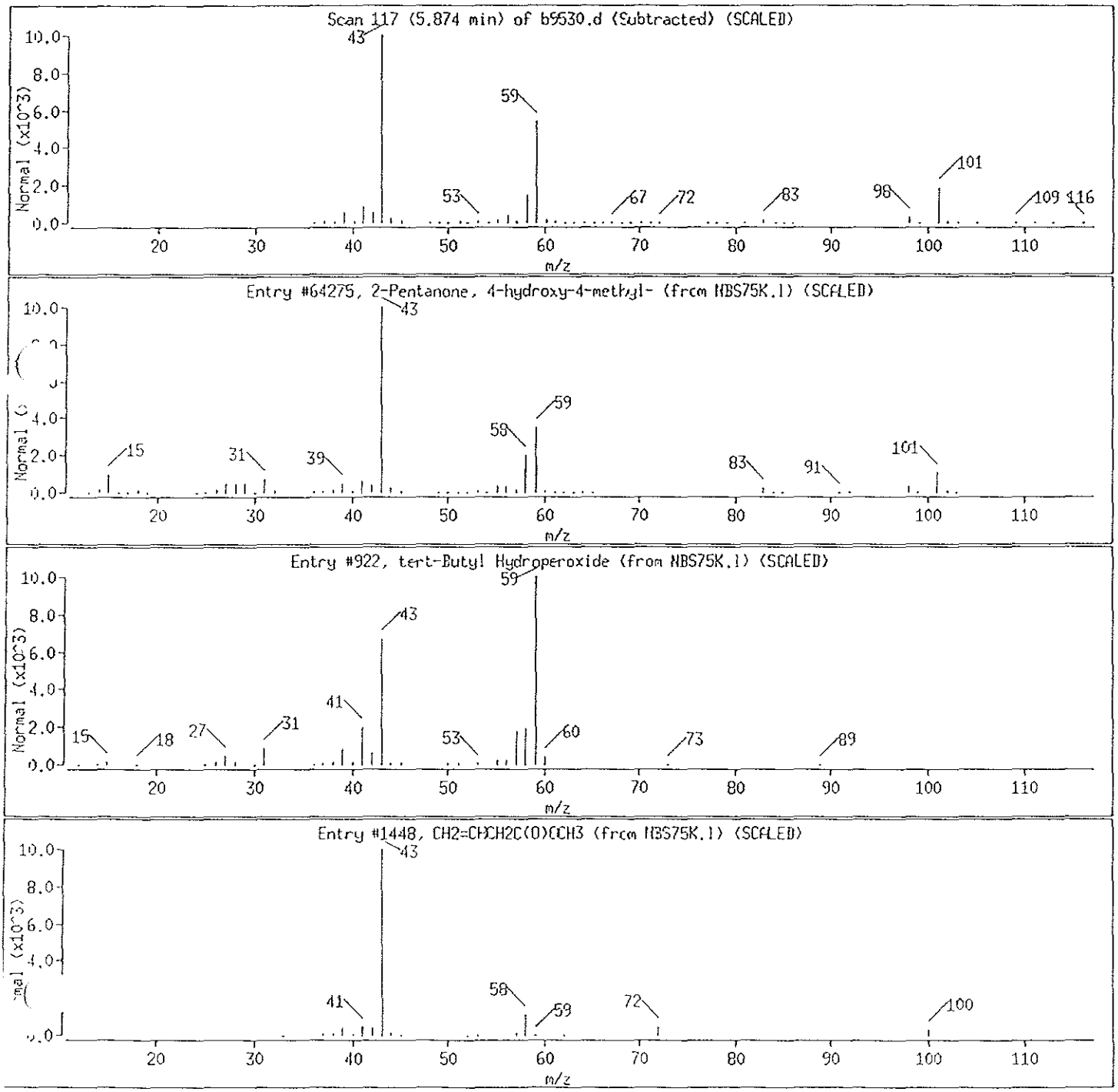
Sample Info: 17418n clj78ds005

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NBS75K.1	64275	50	C6H12O2	116
tert-Butyl Hydroperoxide	75-91-2	NBS75K.1	922	28	C4H10O2	90
CH2=CHCH2C(O)OCH3	3724-55-8	NBS75K.1	1448	10	C5H8O2	100



Data File: /chem/aux/msb.i/b011996.b/b9530.d

Date : 19-JAN-96 18:33

Client ID:

Instrument: msb.i

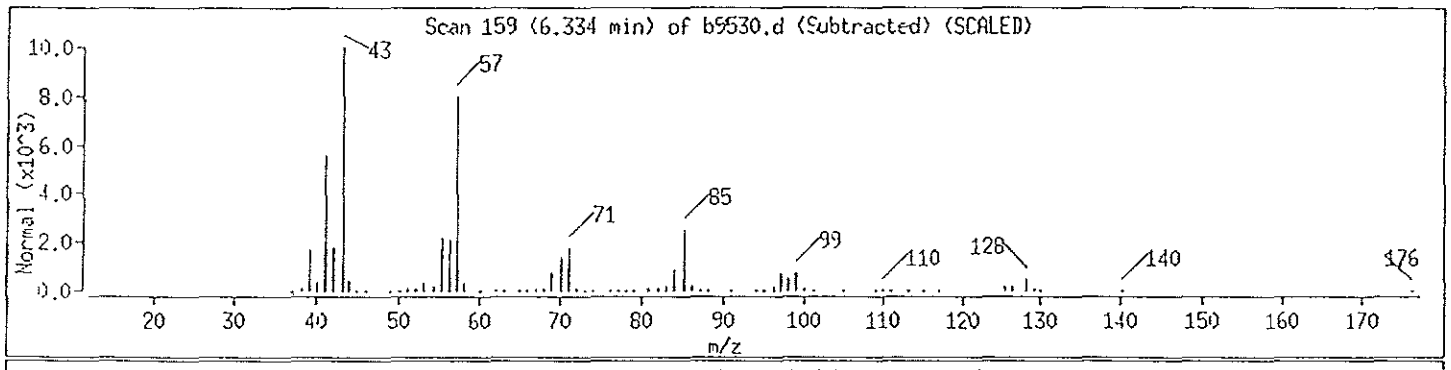
Sample Info: 17418n clj78ds005

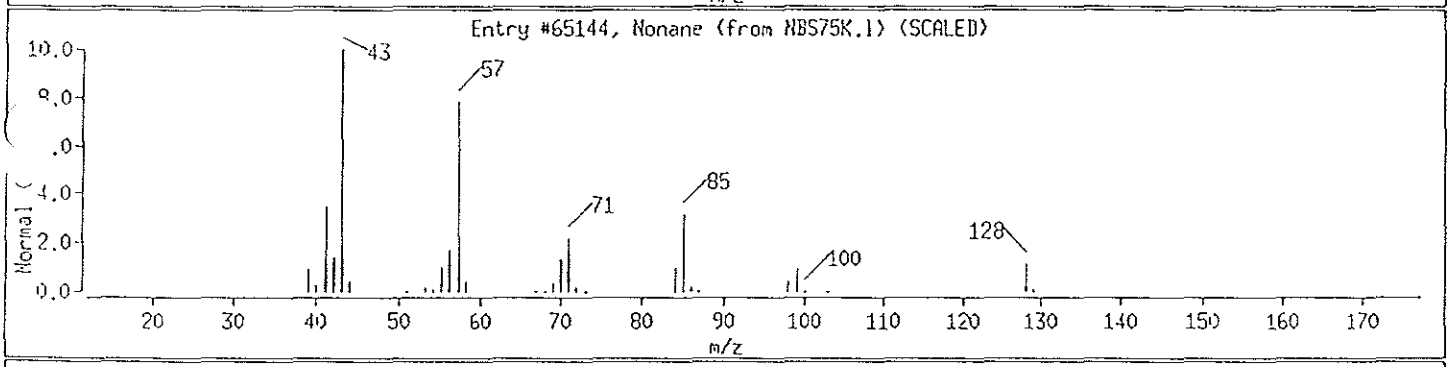
Operator: K. Bigelow

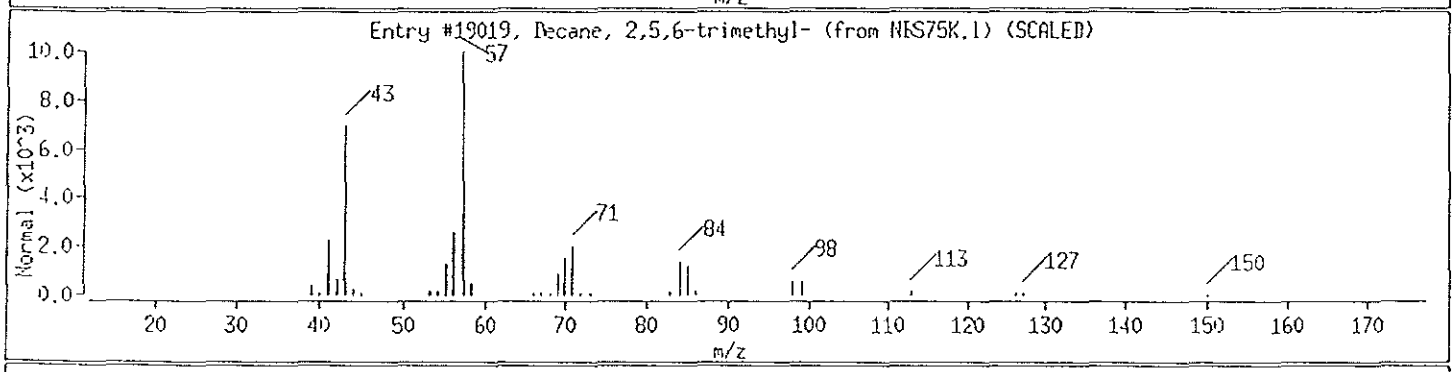
Column phase: J&W DB-5

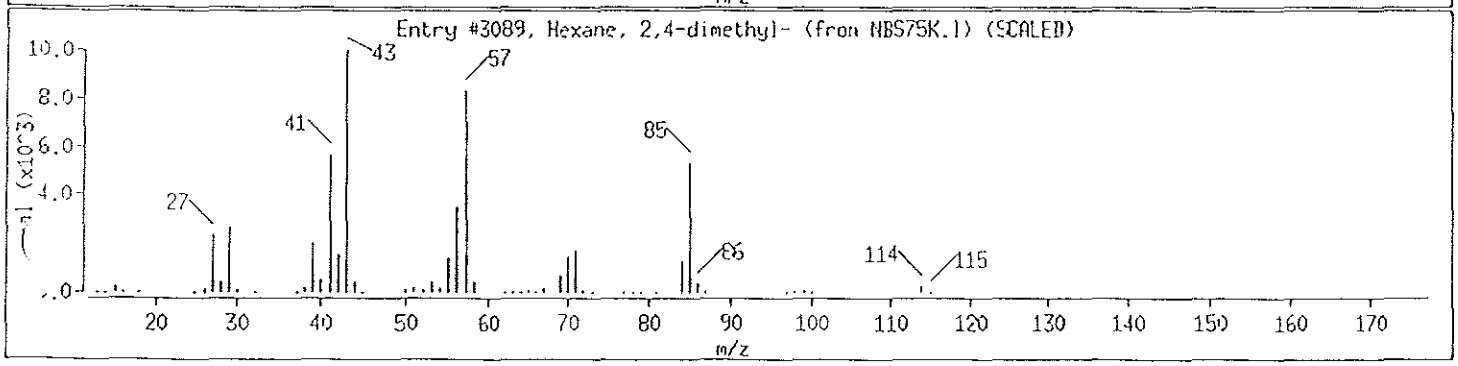
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonane	111-84-2	NBS75K.1	65144	91	C9H20	128
Decane, 2,5,6-trimethyl-	62108-23-0	NBS75K.1	19019	59	C13H28	184
Hexane, 2,4-dimethyl-	589-43-5	NBS75K.1	3089	53	C8H18	114









Data File: /chem/aux/msb.i/b011996.b/b9530.d

Date : 19-JAN-96 18:33

Client ID:

Instrument: msb.i

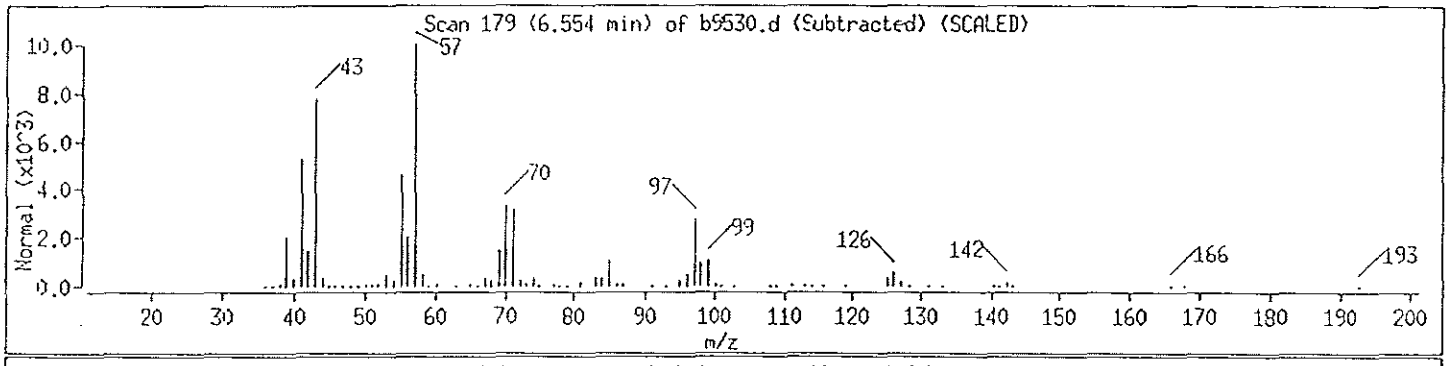
Sample Info: 17418n clj78ds005

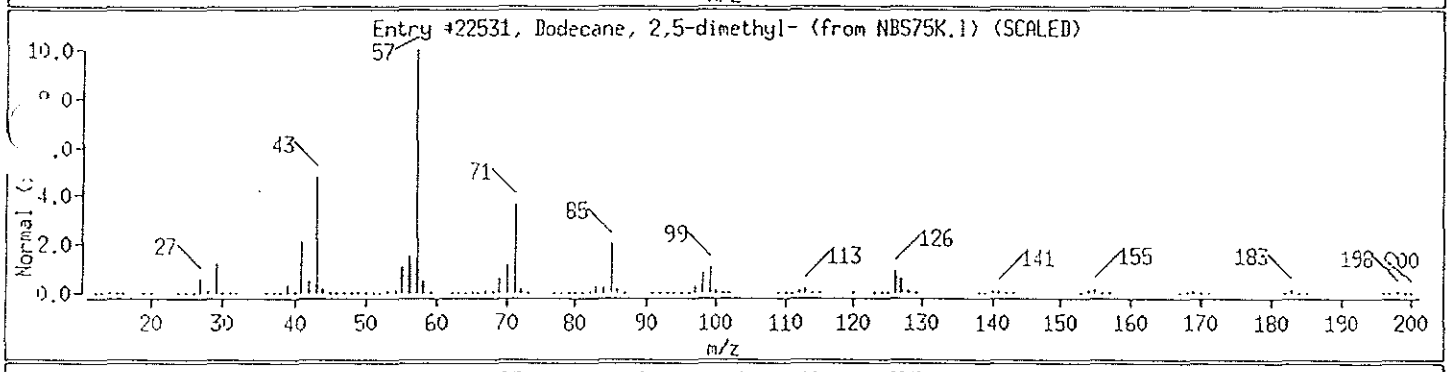
Operator: K. Bigelow

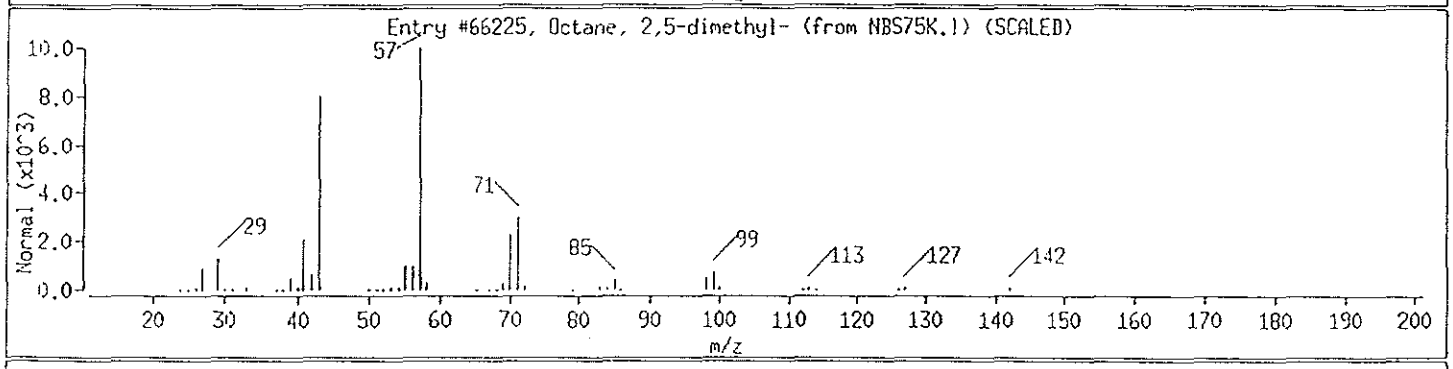
Column phase: J&W DB-5

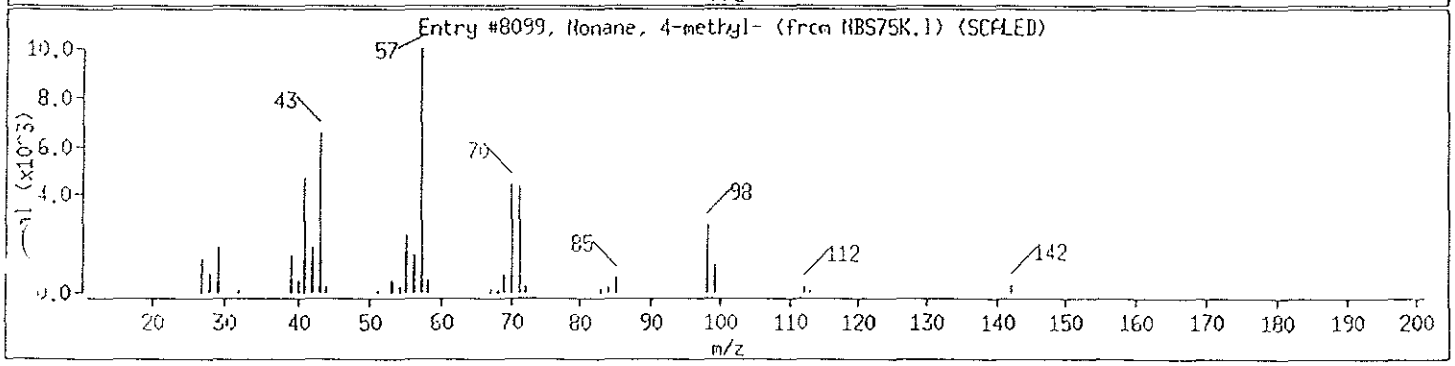
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Dodecane, 2,5-dimethyl-	56292-65-0	NBS75K.l	22531	53	C14H30	198
Octane, 2,5-dimethyl-	15869-89-3	NBS75K.l	66225	52	C10H22	142
Nonane, 4-methyl-	17301-94-9	NBS75K.l	8099	50	C10H22	142









Data File: /chem/aux/msb.i/b011996.b/b9530.d

Date : 19-JAN-96 18:33

Client ID:

Instrument: msb.i

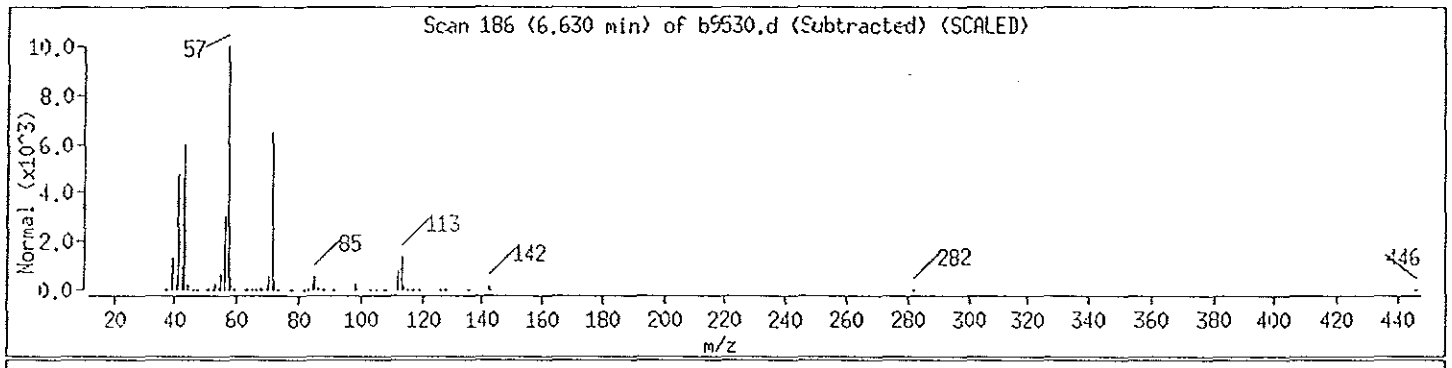
Sample Info: 17418n clj78ds005

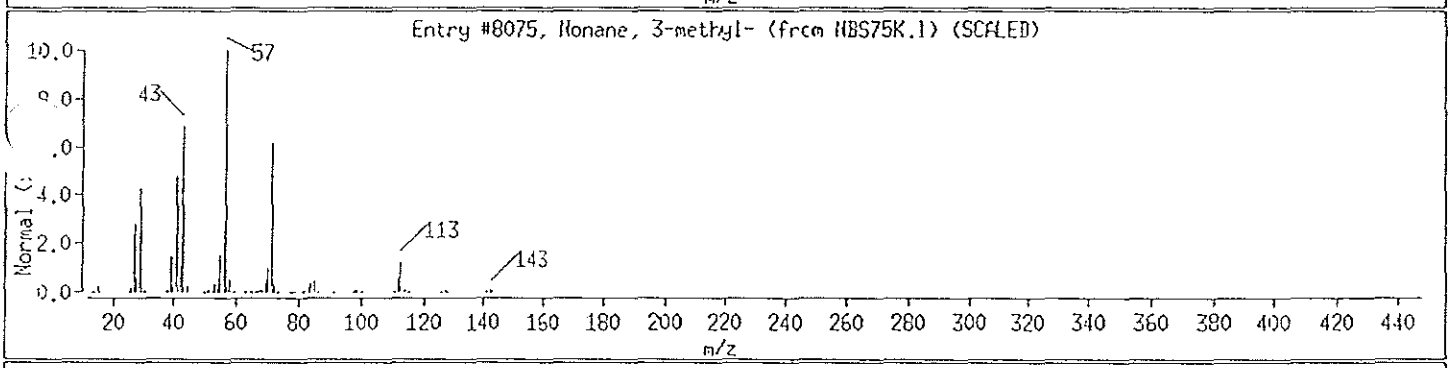
Operator: K. Bigelow

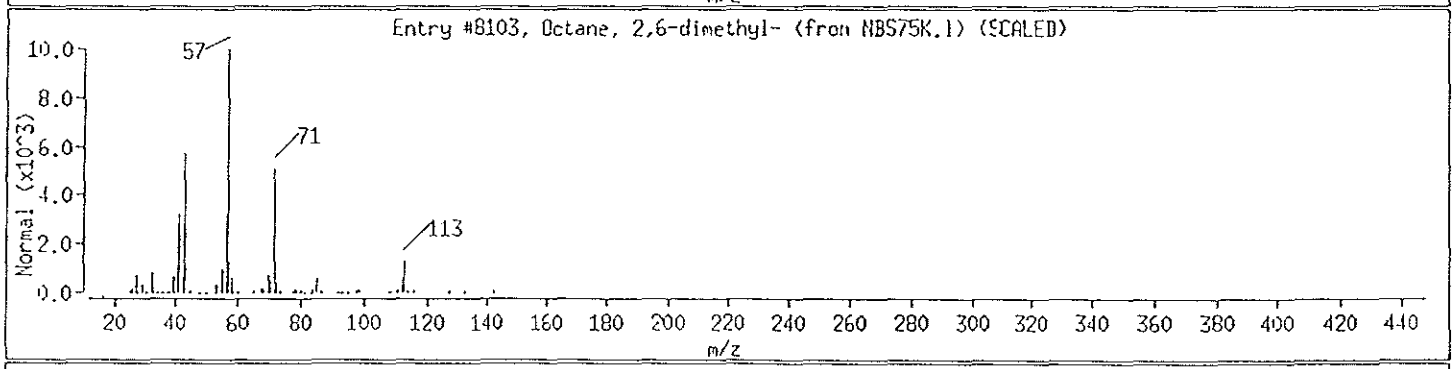
Column phase: J&W DB-5

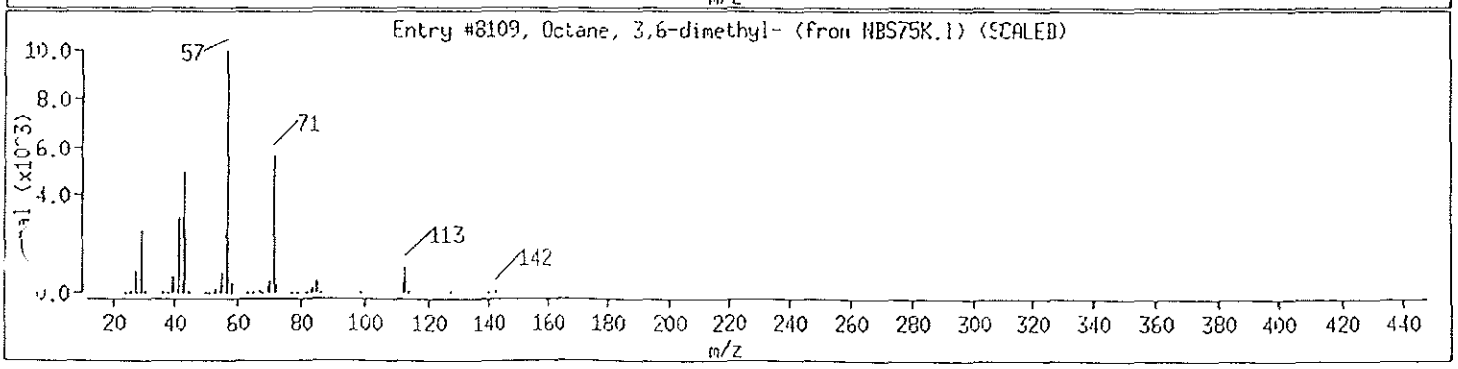
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonane, 3-methyl-	5911-04-6	NBS75K.l	8075	91	C10H22	142
Octane, 2,6-dimethyl-	2051-30-1	NBS75K.l	8103	90	C10H22	142
Octane, 3,6-dimethyl-	15869-94-0	NBS75K.l	8109	90	C10H22	142









Data File: /chem/aux/msb.i/b011996.b/b9530.d

Date : 19-JAN-96 18:33

Client ID:

Instrument: msb.i

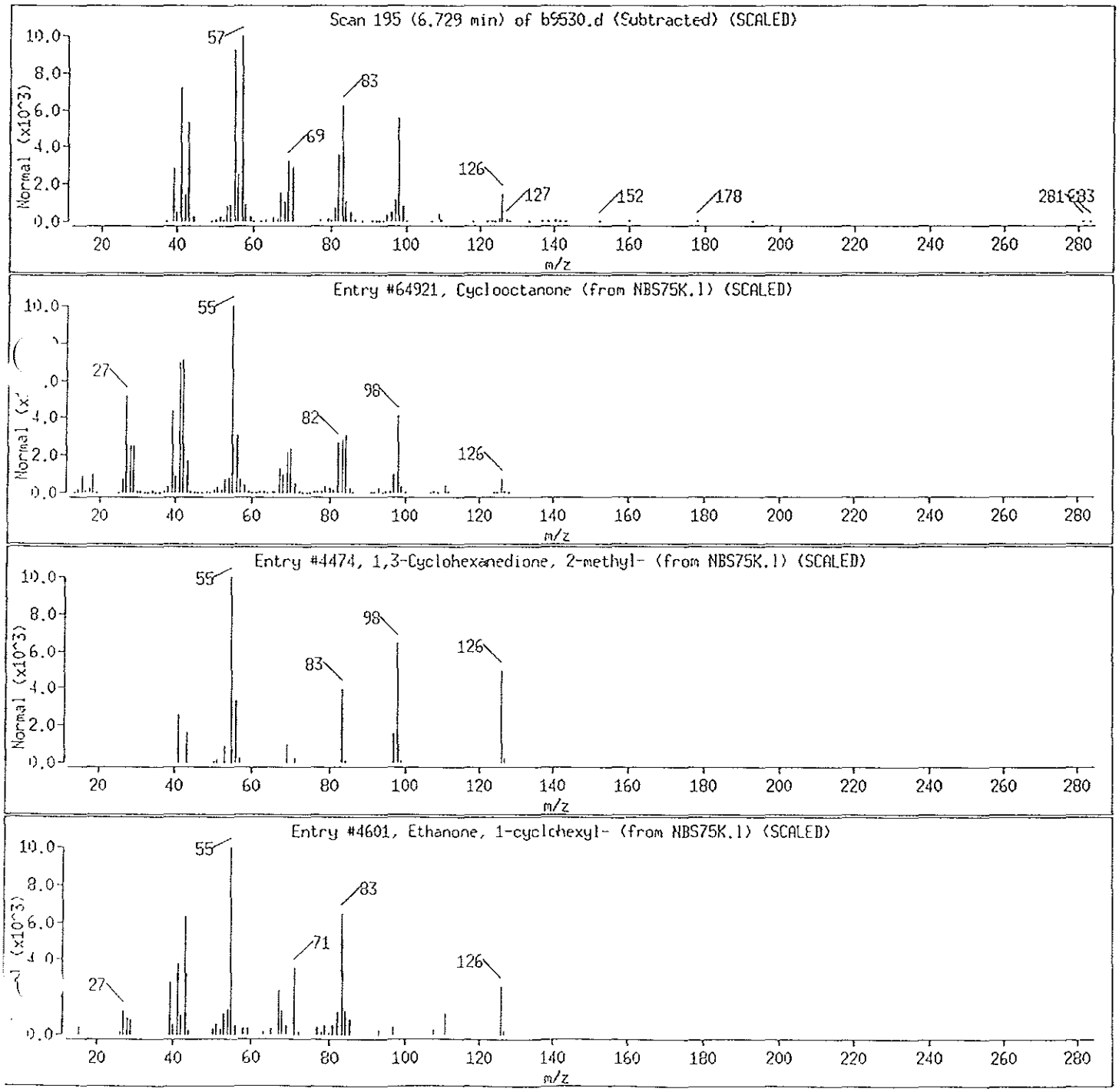
Sample Info: 17418n clj78ds005

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclooctanone	502-49-8	NBS75K.l	64921	64	C8H14O	126
1,3-Cyclohexanedione, 2-methyl-	1193-55-1	NBS75K.l	4474	43	C7H10O2	126
Ethanone, 1-cyclohexyl-	823-76-7	NBS75K.l	4601	38	C8H14O	126



Data File: /chem/aux/msb.i/b011996.b/b9530.d

Date : 19-JAN-96 18:33

Client ID:

Instrument: msb.i

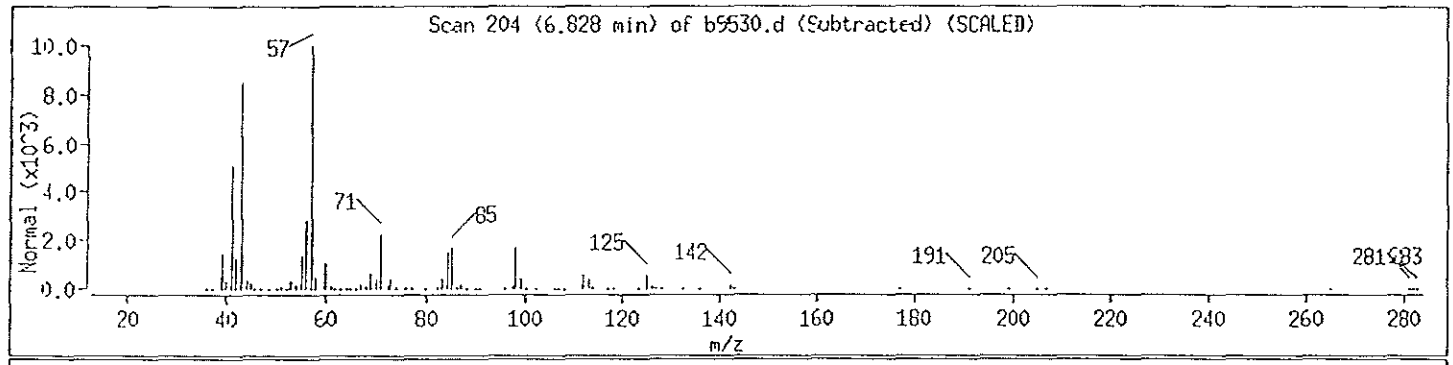
Sample Info: 17418n clj78ds005

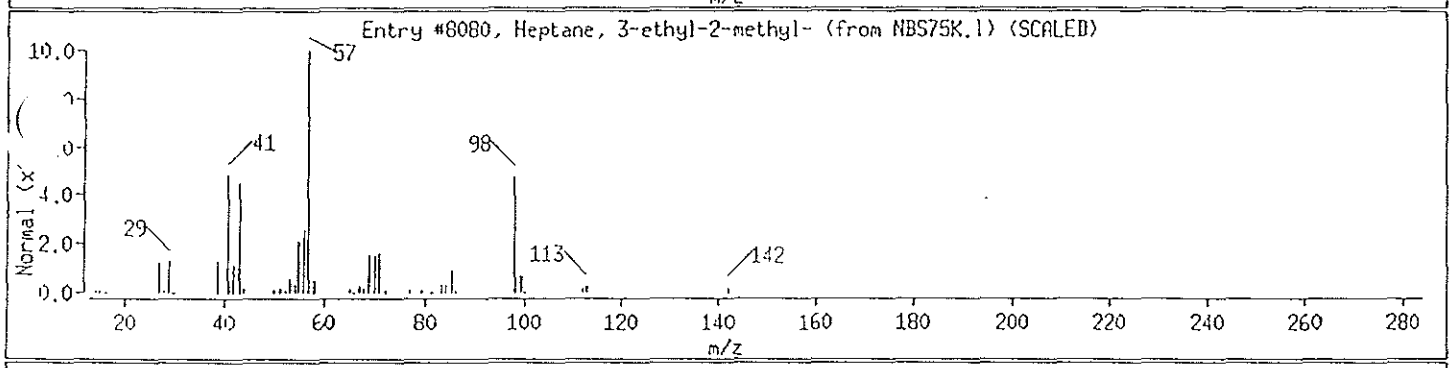
Operator: K. Bigelow

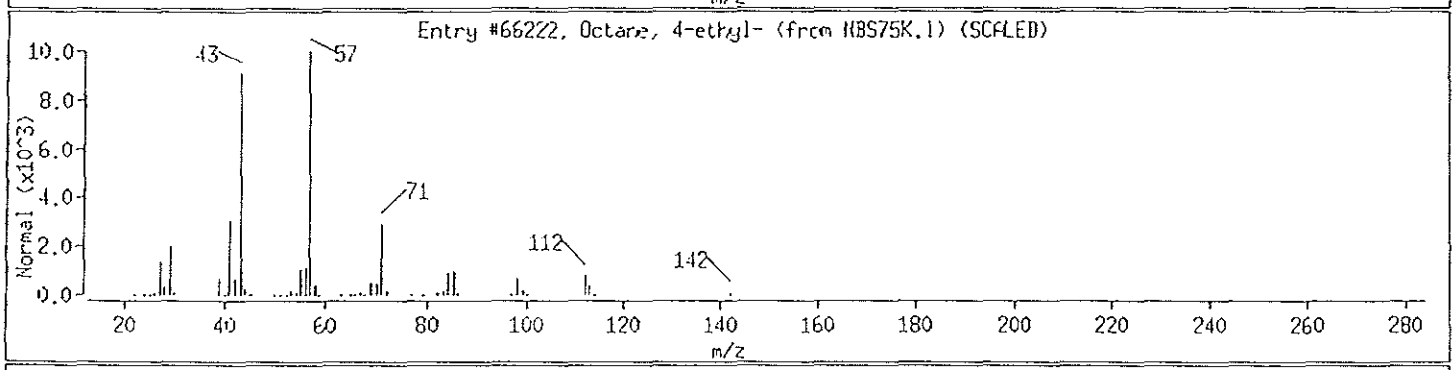
Column phase: J&W DB-5

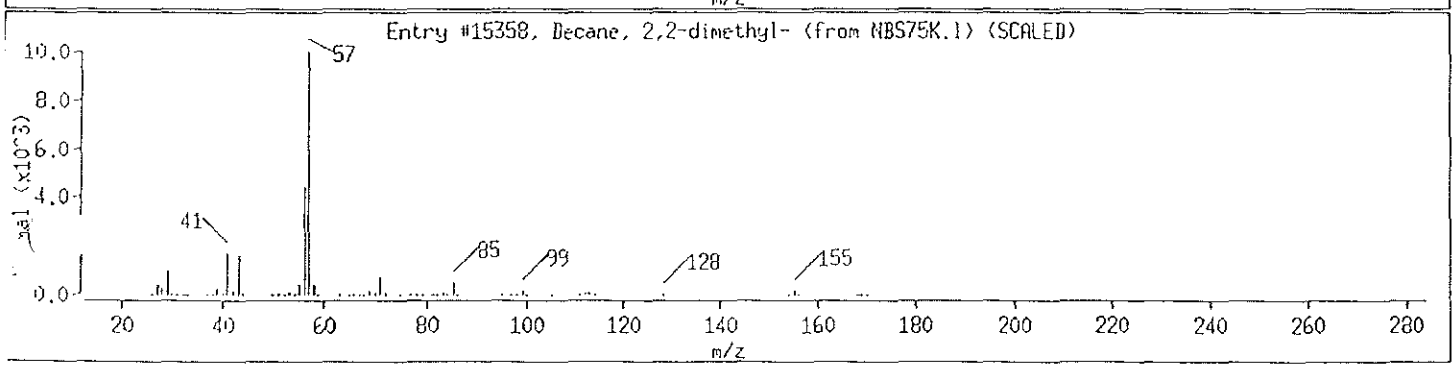
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Heptane, 3-ethyl-2-methyl-	14676-29-0	NBS75K.l	8080	47	C10H22	142
Octane, 4-ethyl-	15869-86-0	NBS75K.l	66222	47	C10H22	142
Decane, 2,2-dimethyl-	17302-37-3	NBS75K.l	15358	47	C12H26	170









Data File: /chem/aux/msb.i/b011996.b/b9530.d

Date : 19-JAN-96 18:33

Client ID:

Instrument: msb.i

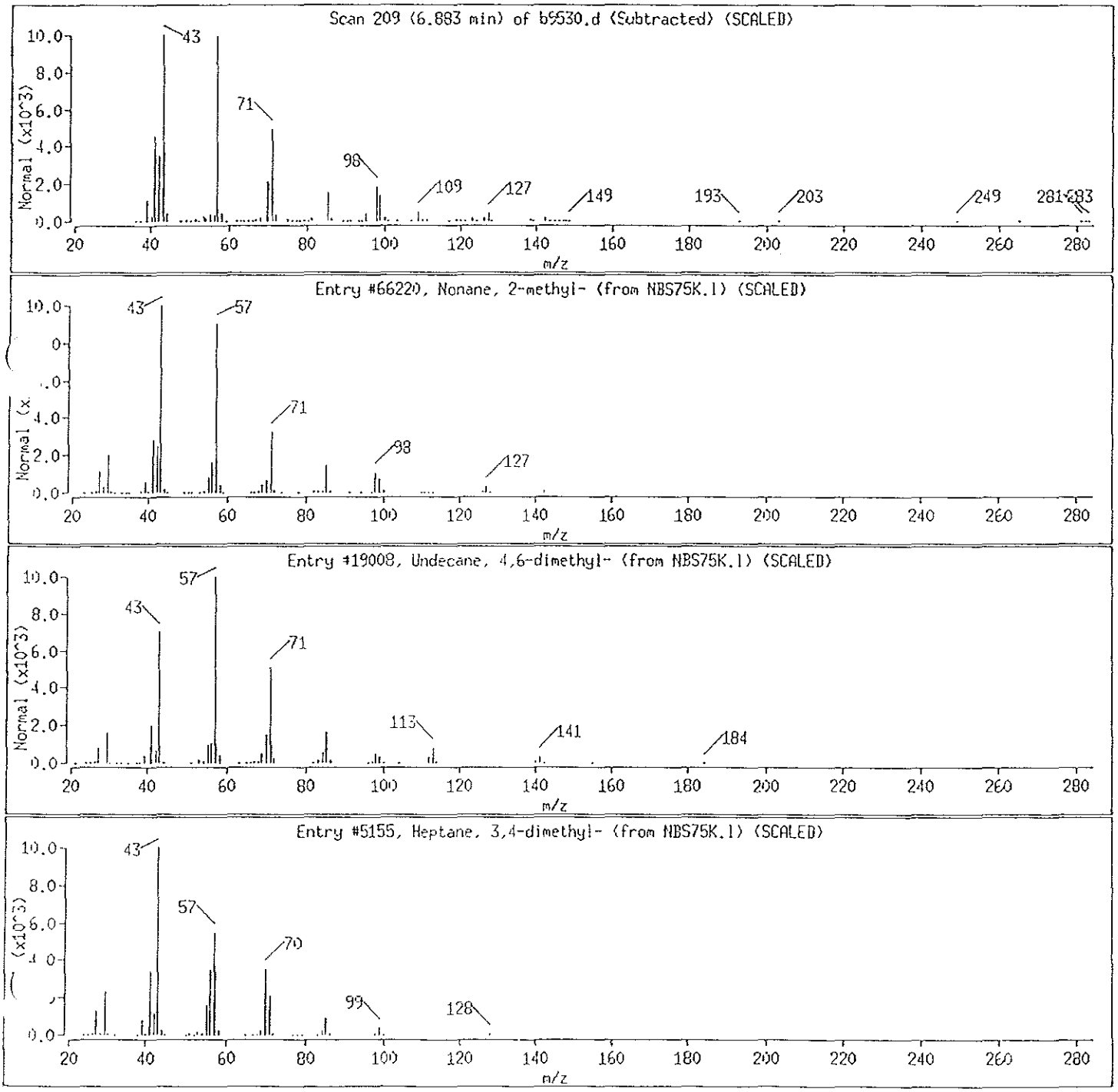
Sample Info: 17418n clj78ds005

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonane, 2-methyl-	871-83-0	NBS75K.l	66220	53	C10H22	142
Undecane, 4,6-dimethyl-	17312-82-2	NBS75K.l	19008	50	C13H28	184
Heptane, 3,4-dimethyl-	922-28-1	NBS75K.l	5155	47	C9H20	128



Data File: /chem/aux/msb.i/b011996.b/b9530.d

Date : 19-JAN-96 18:33

Client ID:

Instrument: msb.i

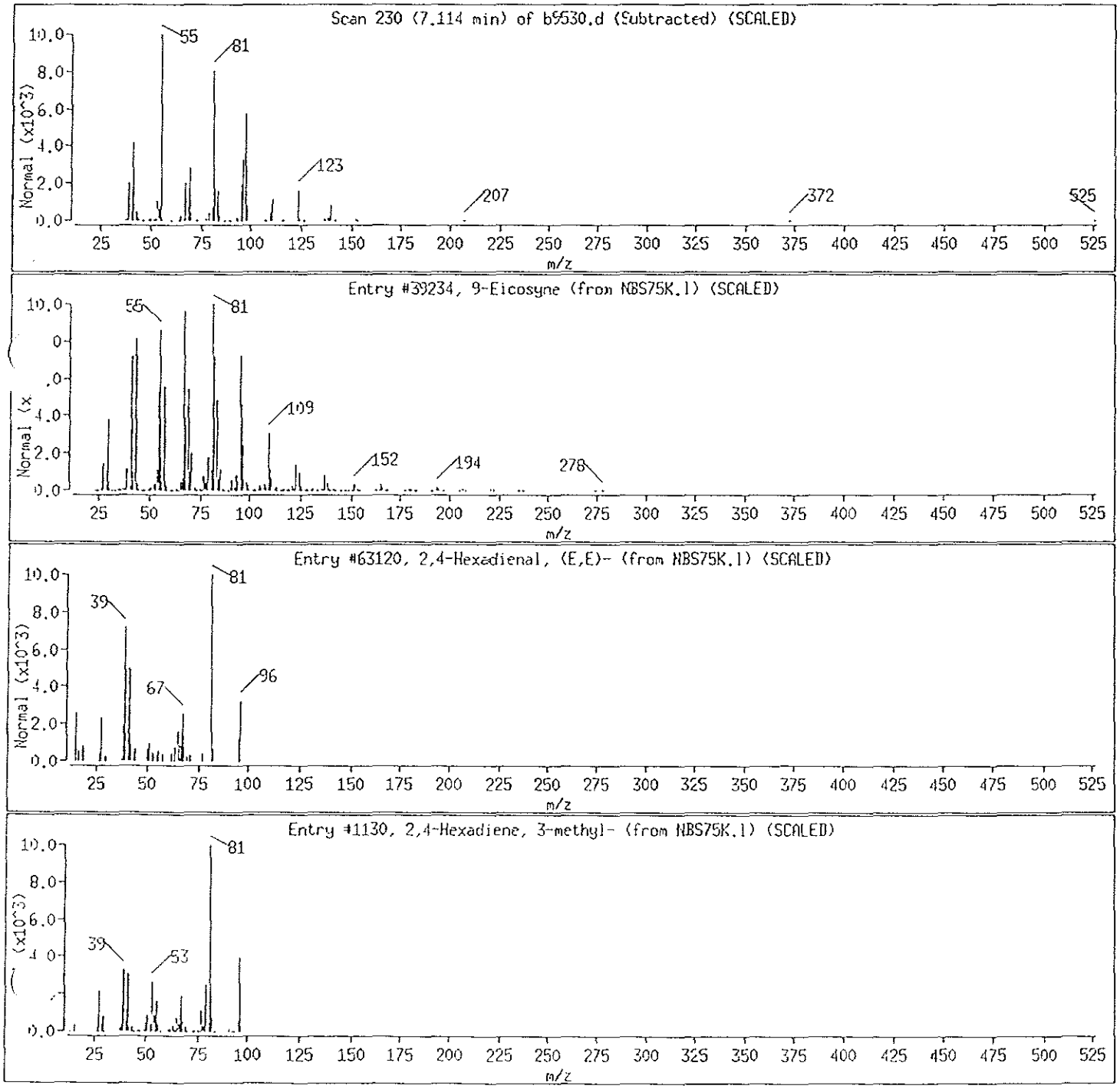
Sample Info: 17418n clj78ds005

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9-Eicosyne	71899-38-2	NBS75K.l	39234	47	C20H38	278
2,4-Hexadienal, (E,E)-	142-83-6	NBS75K.l	63120	43	C6H8O	96
2,4-Hexadiene, 3-methyl-	28823-42-9	NBS75K.l	1130	43	C7H12	96



Data File: /chem/aux/msb.i/b011996.b/b9530.d

Date : 19-JAN-96 18:33

Client ID:

Instrument: msb.i

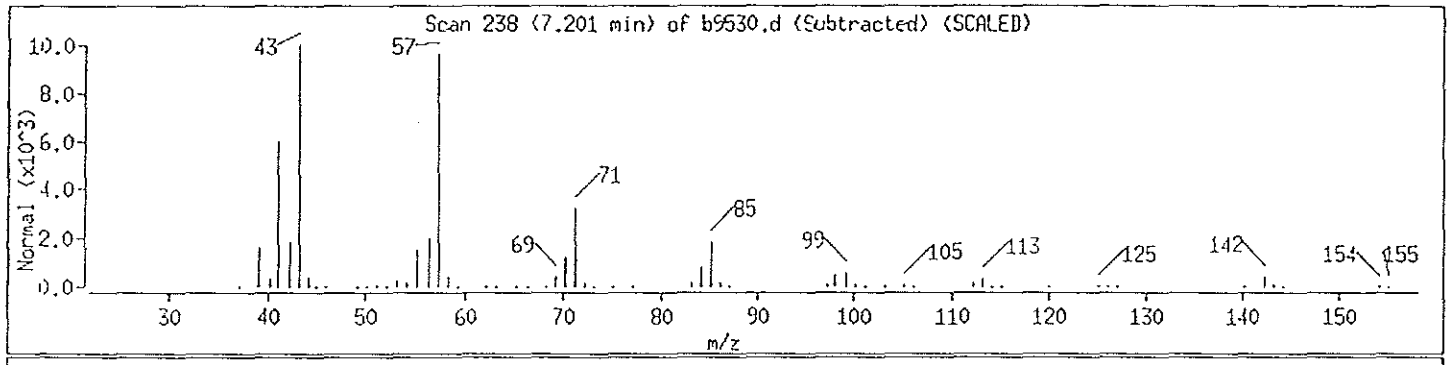
Sample Info: 17418n clj78ds005

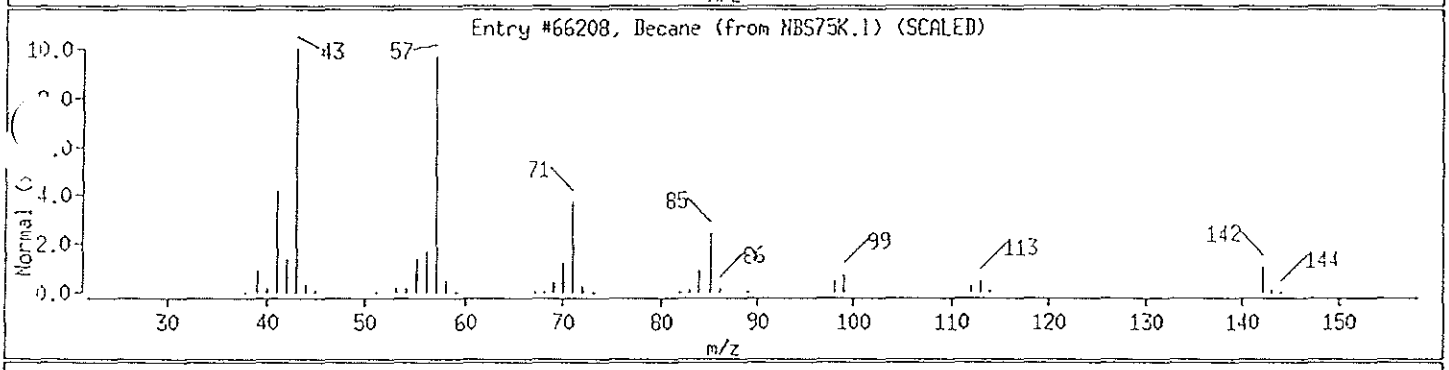
Operator: K. Bigelow

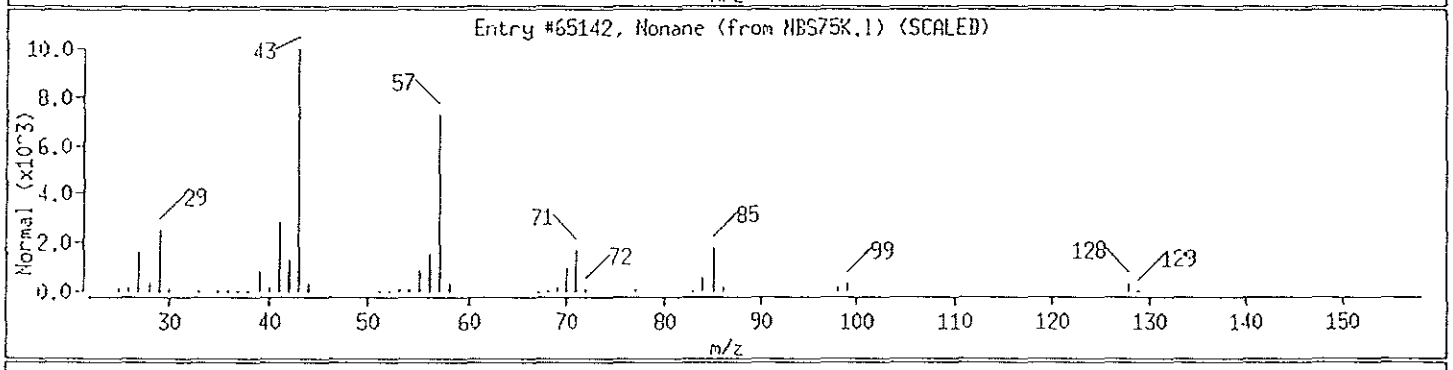
Column phase: J&W DB-5

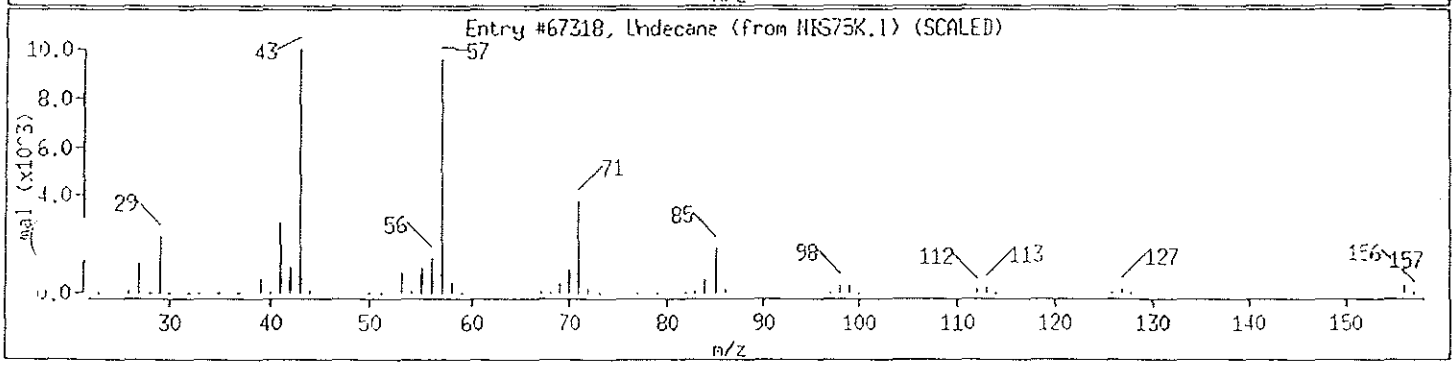
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decane	124-18-5	NBS75K.1	66208	95	C10H22	142
Nonane	111-84-2	NBS75K.1	65142	78	C9H20	128
Undecane	1120-21-4	NBS75K.1	67318	72	C11H24	156









Data File: /chem/aux/msb.i/b011996.b/b9530.d

Date : 19-JAN-96 18:33

Client ID:

Instrument: msb.i

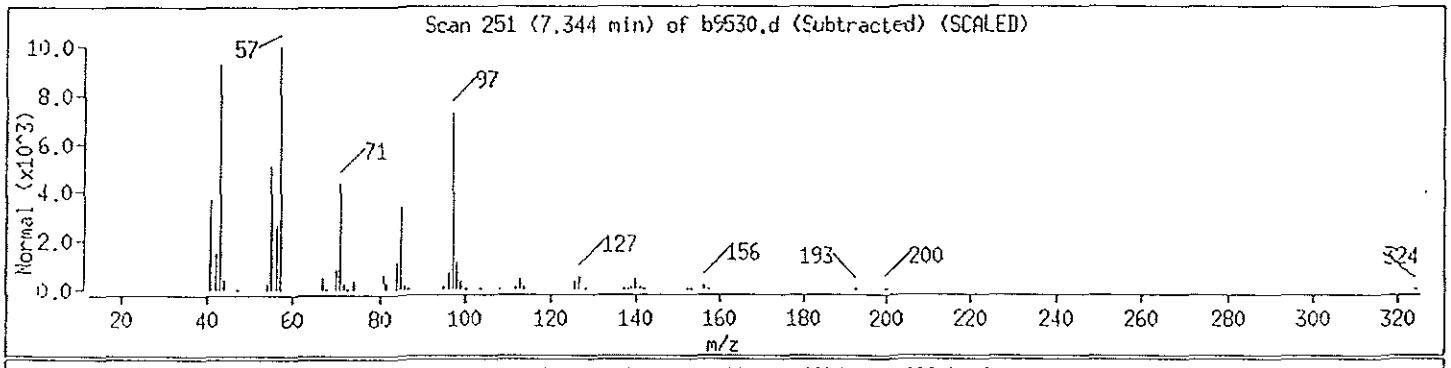
Sample Info: 17418n clj78ds005

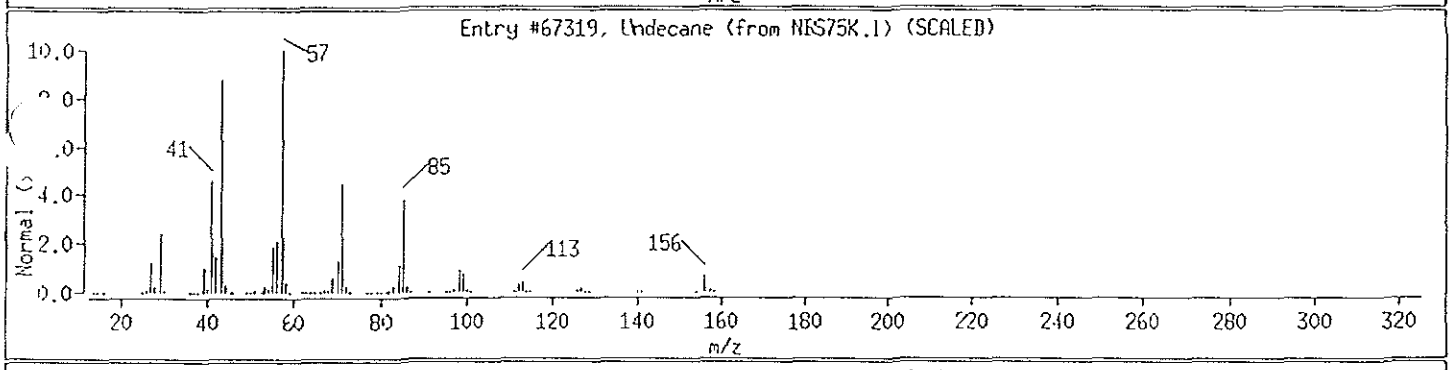
Operator: K. Bigelow

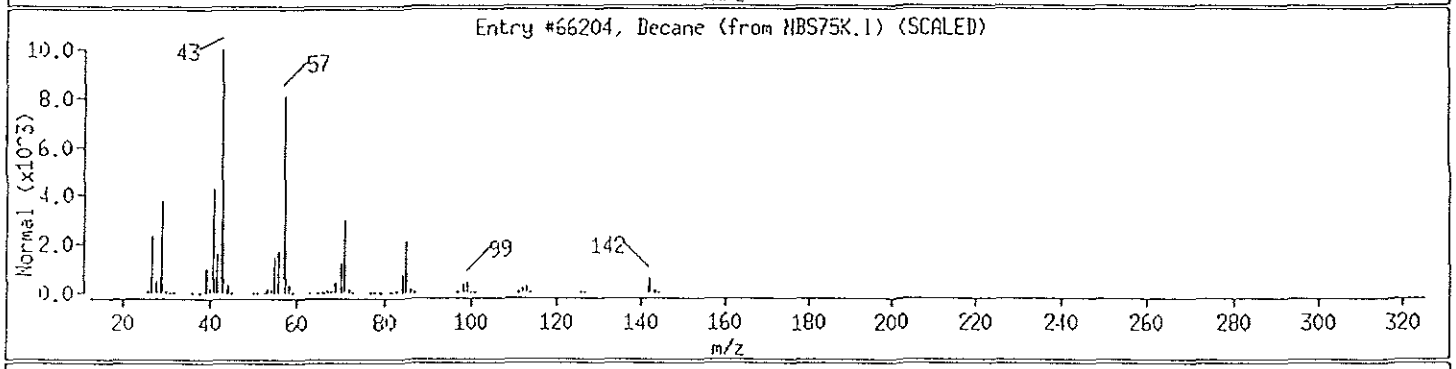
Column phase: J&W DB-5

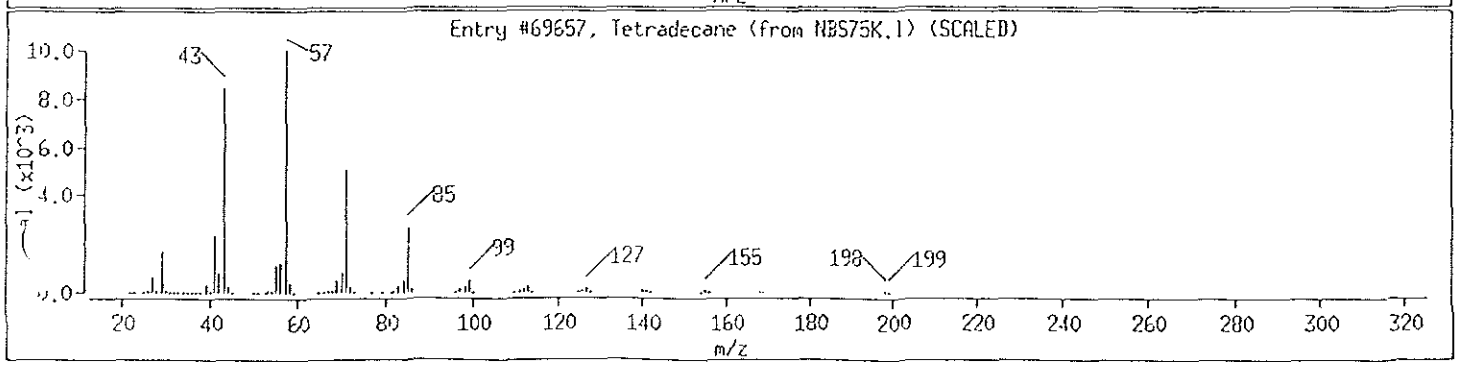
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Undecane	1120-21-4	NBS75K.1	67319	62	C11H24	156
Decane	124-18-5	NBS75K.1	66204	50	C10H22	142
Tetradecane	629-59-4	NBS75K.1	69657	47	C14H30	198









Data File: /chem/aux/msb.i/b011996.b/b9530.d

Date : 19-JAN-96 18:33

Client ID:

Instrument: msb.i

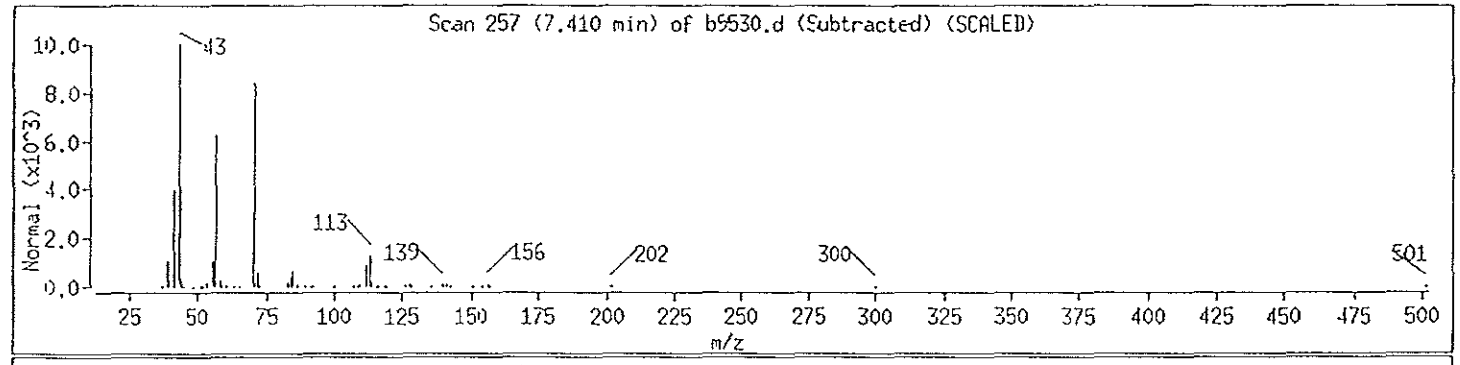
Sample Info: 17418n clj78ds005

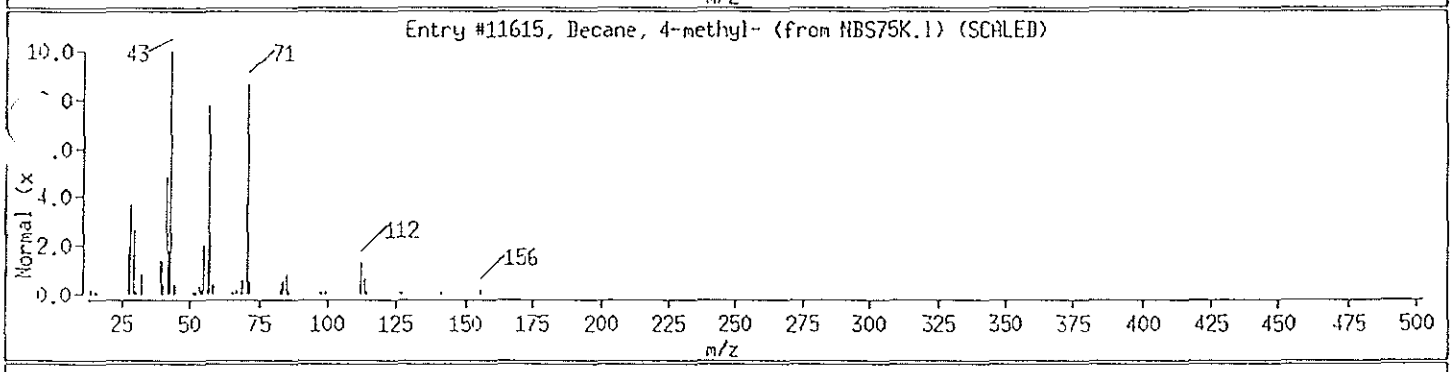
Operator: K. Bigelow

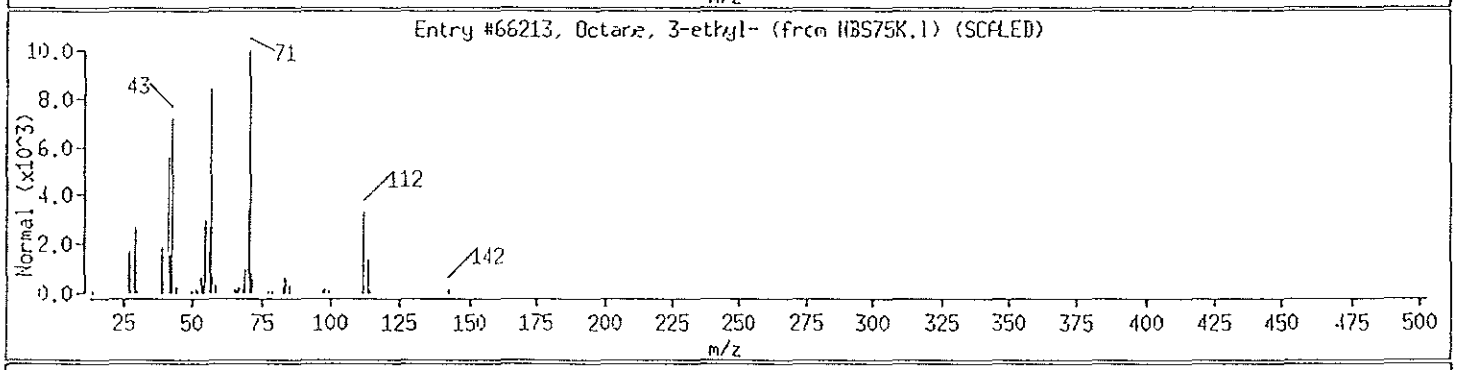
Column phase: J&W DB-5

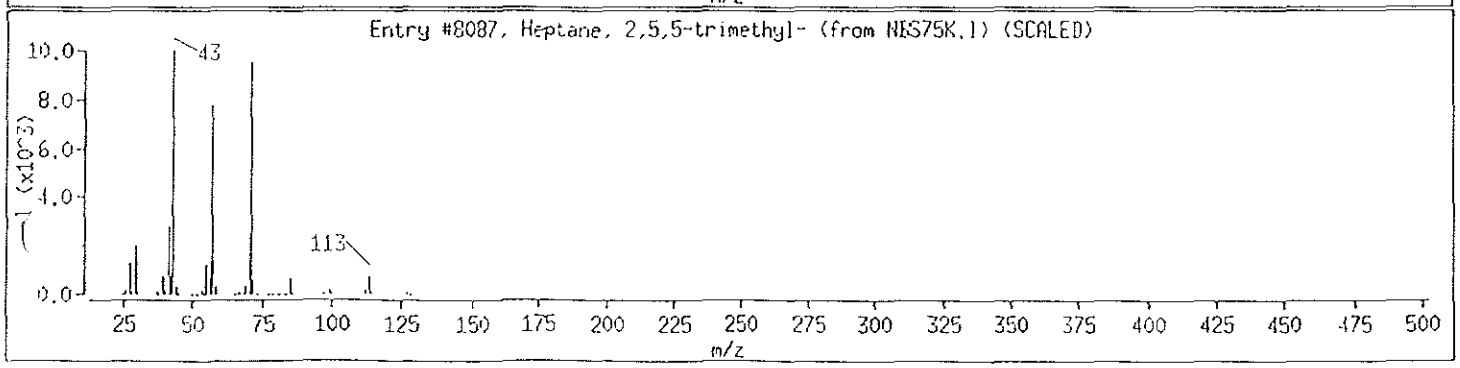
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decane, 4-methyl-	2847-72-5	NBS75K.1	11615	91	C11H24	156
Octane, 3-ethyl-	5981-17-4	NBS75K.1	66213	78	C10H22	142
Heptane, 2,5,5-trimethyl-	1189-99-7	NBS75K.1	8087	78	C10H22	142









Data File: /chem/aux/msb.i/b011996.b/b9530.d

Date : 19-JAN-96 18:33

Client ID:

Instrument: msb.i

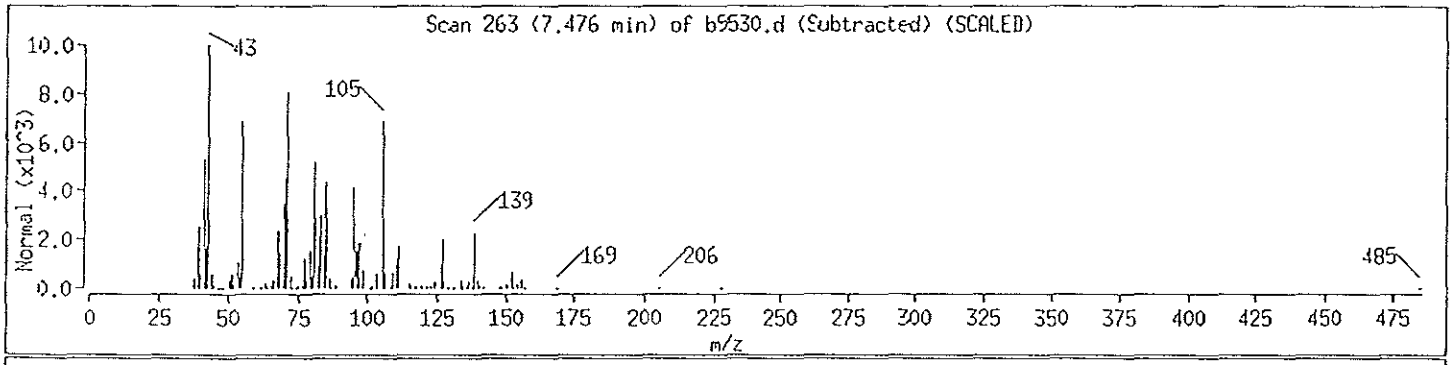
Sample Info: 17418n clj78ds005

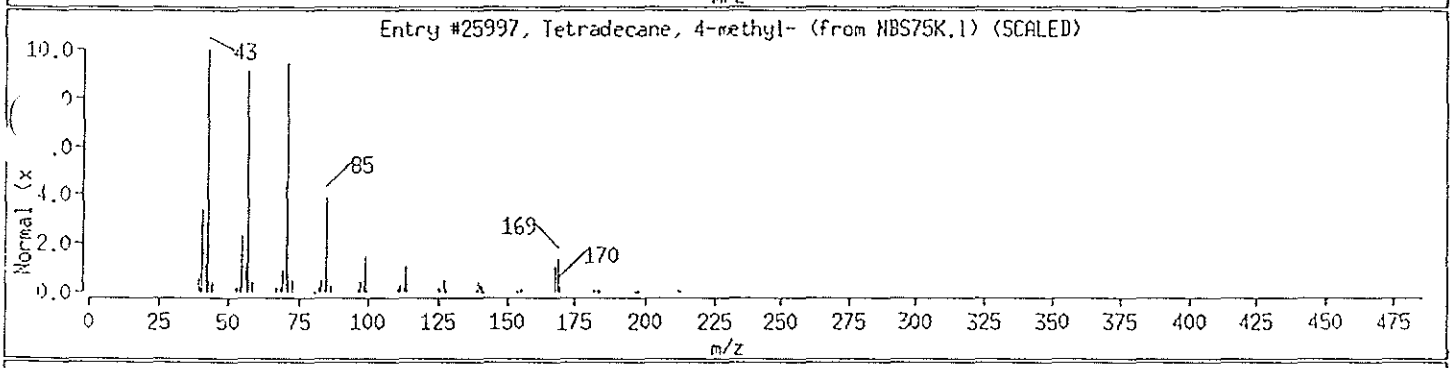
Operator: K. Bigelow

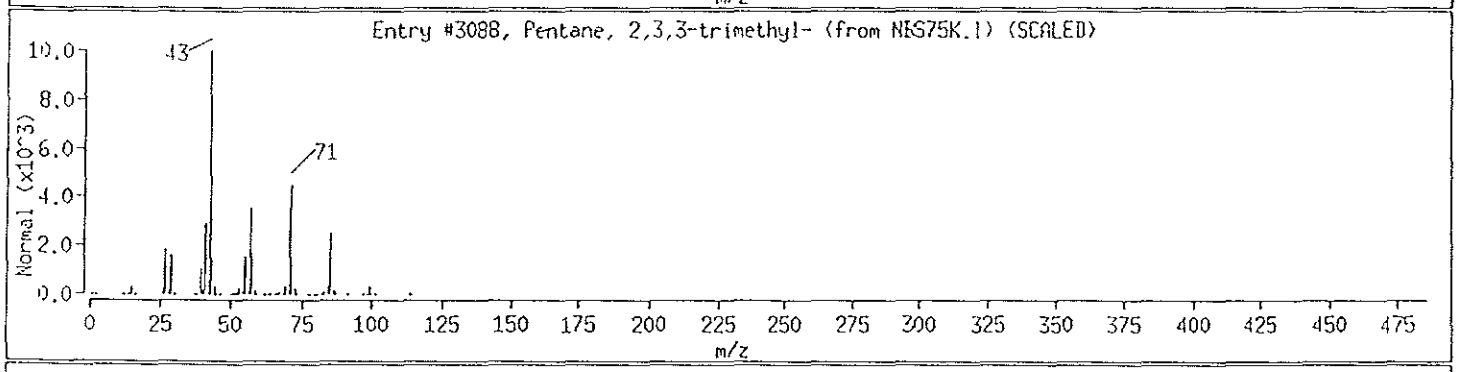
Column phase: J&W DB-5

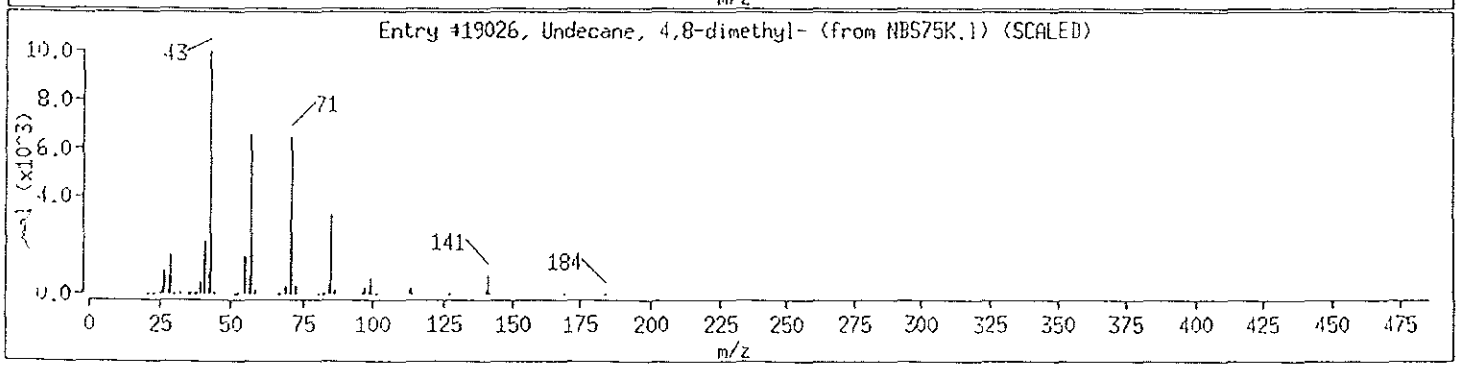
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tetradecane, 4-methyl-	25117-24-2	NBS75K.1	25997	47	C15H32	212
Pentane, 2,3,3-trimethyl-	560-21-4	NBS75K.1	3088	43	C8H18	114
Undecane, 4,8-dimethyl-	17301-33-6	NBS75K.1	19026	43	C13H28	184









Data File: /chem/aux/msb.i/b011996.b/b9530.d

Date : 19-JAN-96 18:33

Client ID:

Instrument: msb.i

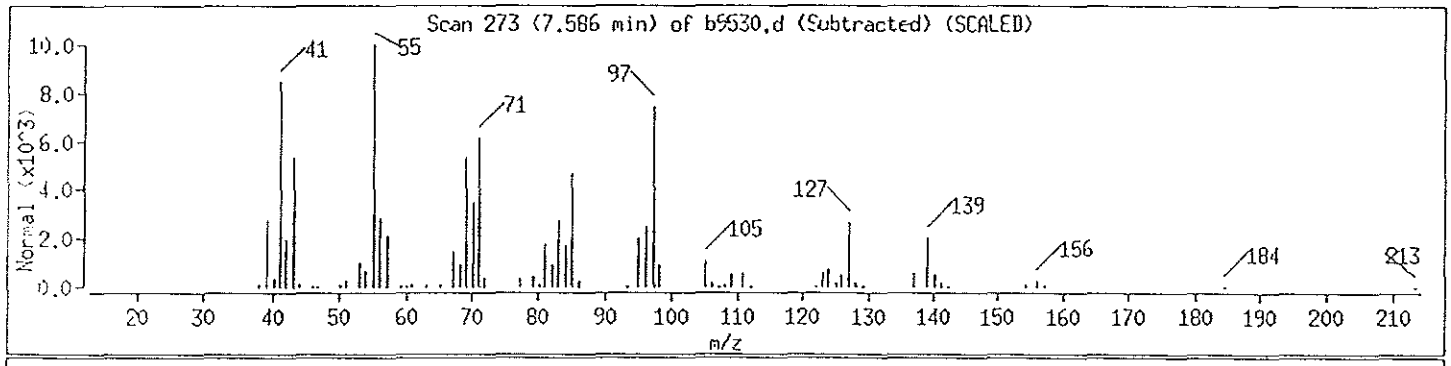
Sample Info: 17418n clj78ds005

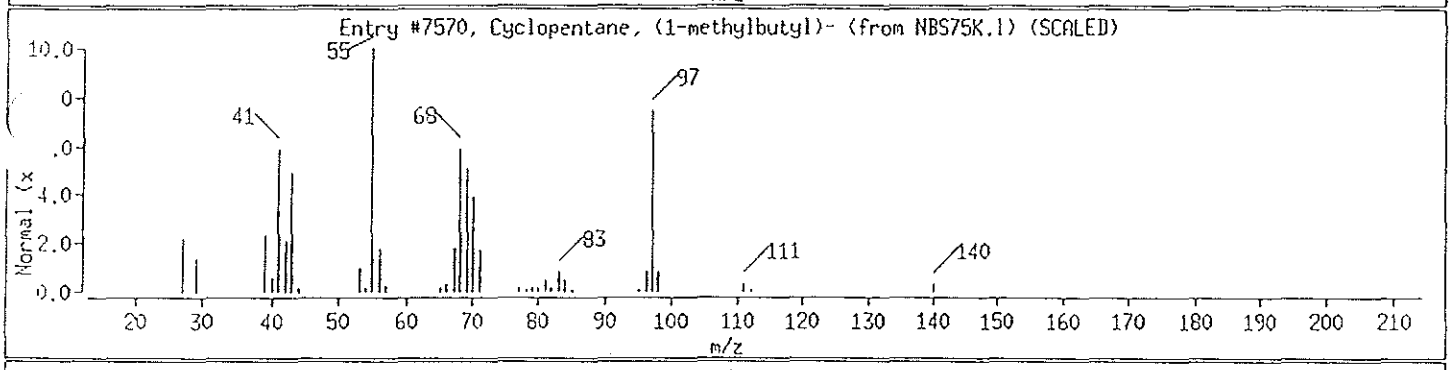
Operator: K. Bigelow

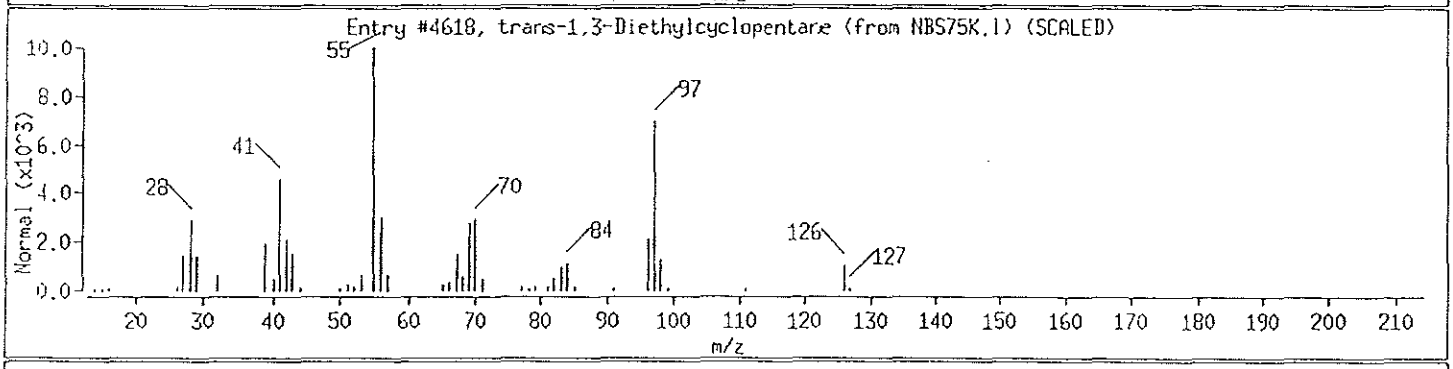
Column phase: J&W DB-5

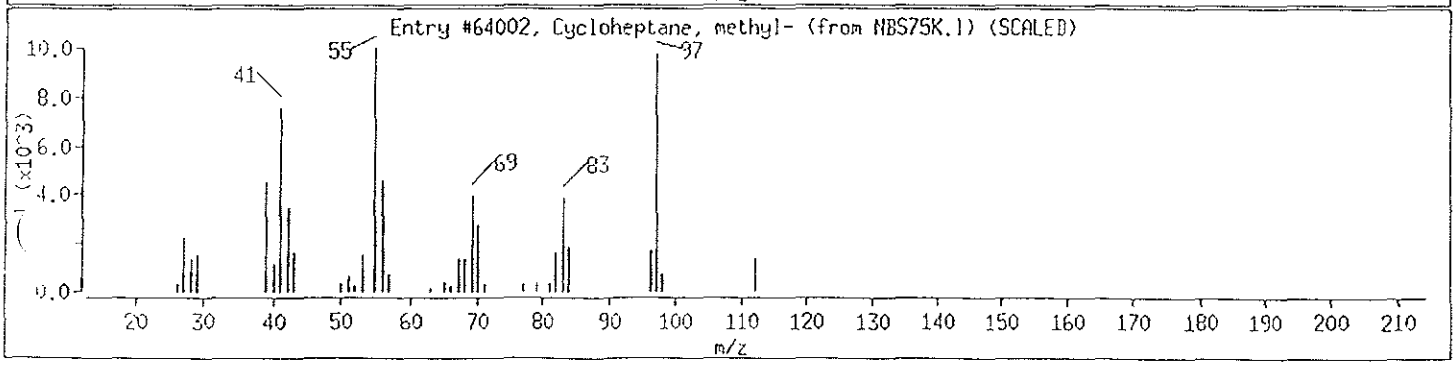
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclopentane, (1-methylbutyl)-	4737-43-3	NBS75K.l	7570	42	C10H20	140
trans-1,3-Diethylcyclopentane	0-00-0	NBS75K.l	4618	38	C9H18	126
Cycloheptane, methyl-	4126-78-7	NBS75K.l	64002	35	C8H16	112









Data File: /chem/aux/msb.i/b011996.b/b9530.d

Date : 19-JAN-96 18:33

Client ID:

Instrument: msb.i

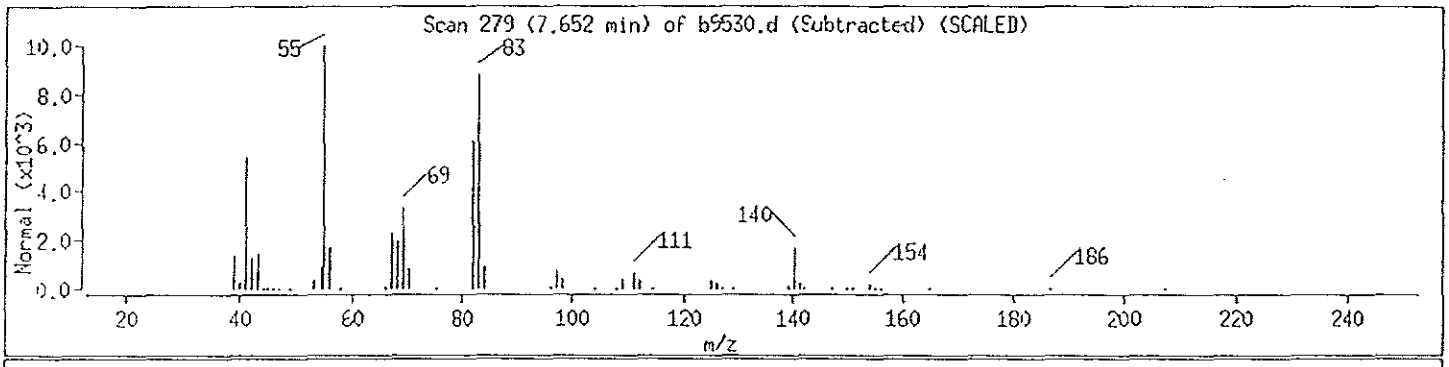
Sample Info: 17418n clj78ds005

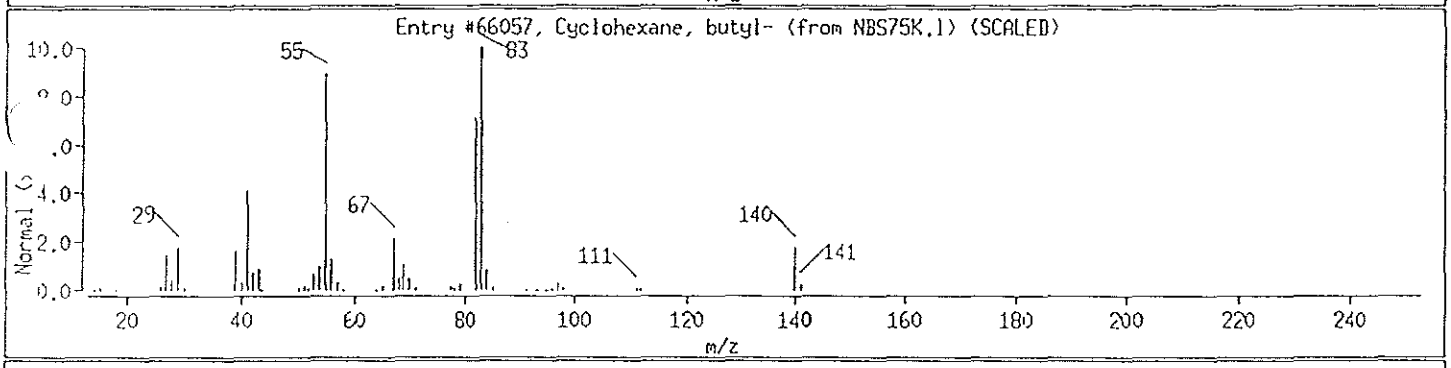
Operator: K. Bigelow

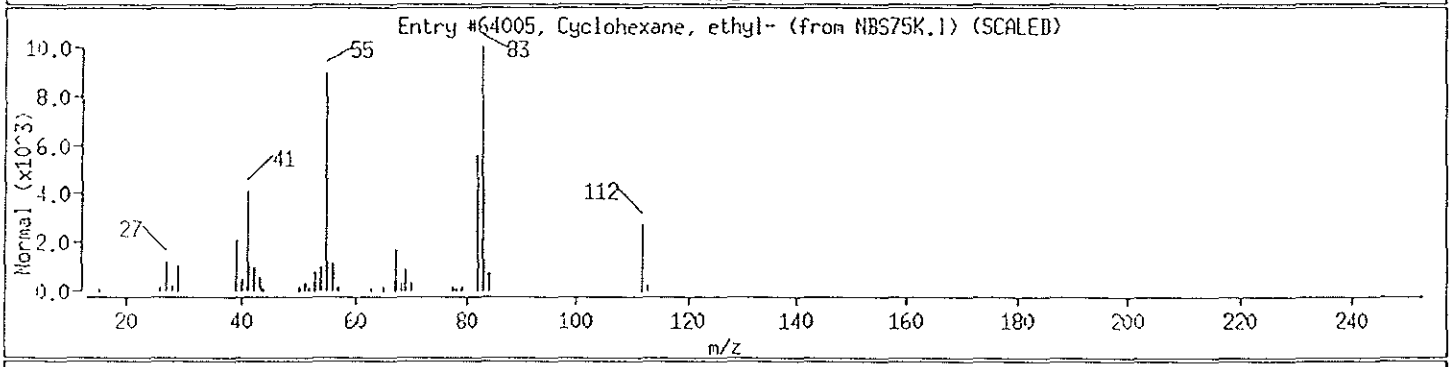
Column phase: J&W DB-5

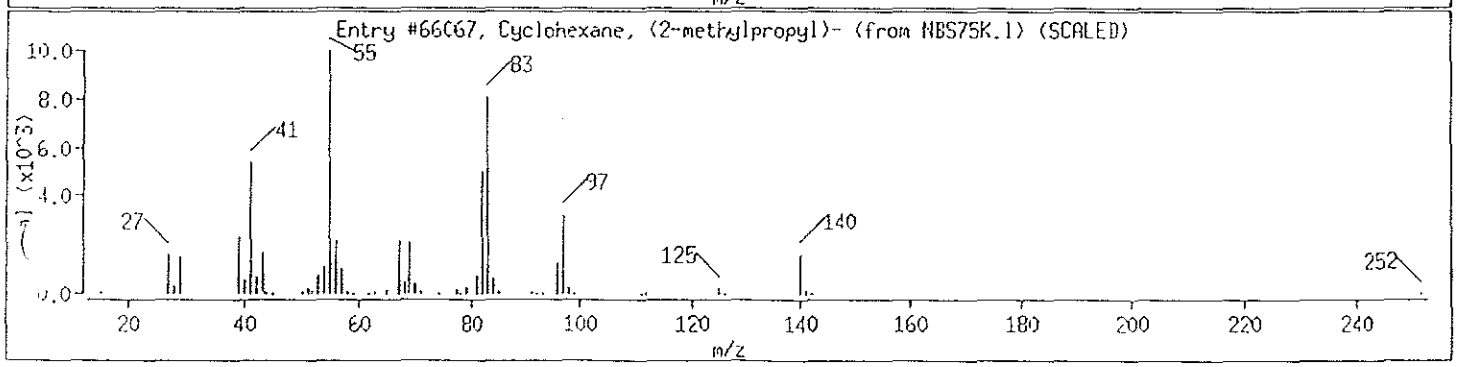
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexane, butyl-	1678-93-9	NBS75K.1	66057	87	C10H20	140
Cyclohexane, ethyl-	1678-91-7	NBS75K.1	64005	83	C8H16	112
Cyclohexane, (2-methylpropyl)-	1678-98-4	NBS75K.1	66067	81	C10H20	140









Data File: /chem/aux/msb.i/b011996.b/b9530.d

Date : 19-JAN-96 18:33

Client ID:

Instrument: msb.i

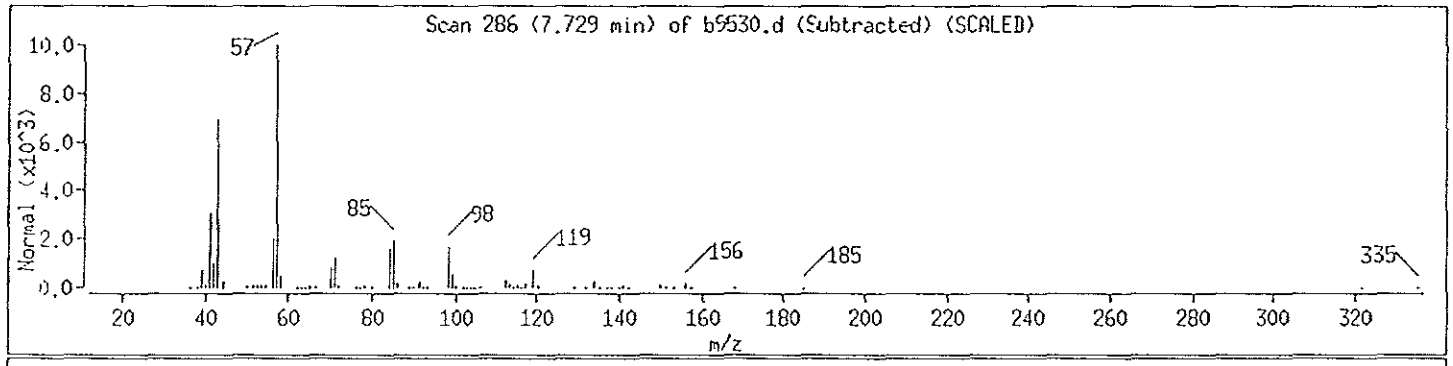
Sample Info: 17418n clj78ds005

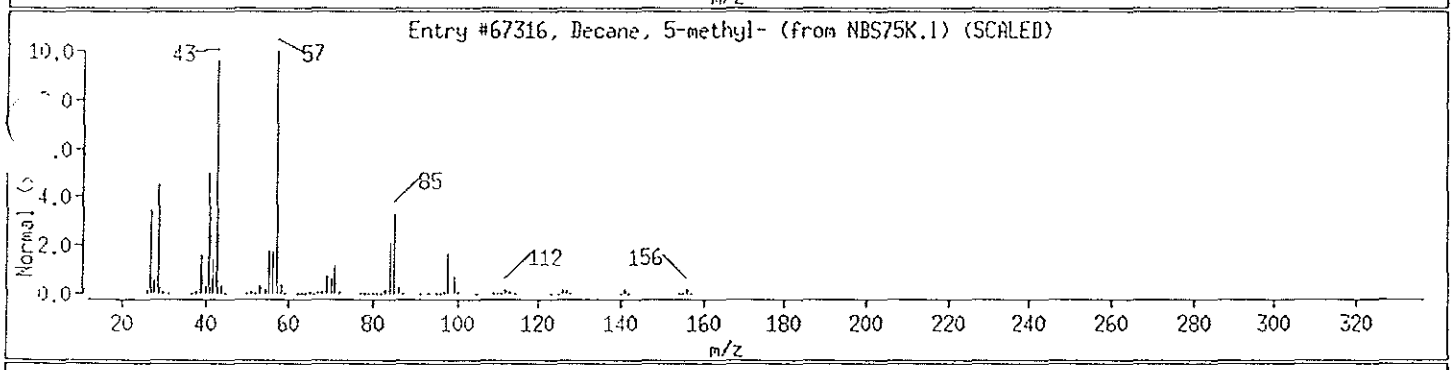
Operator: K. Bigelow

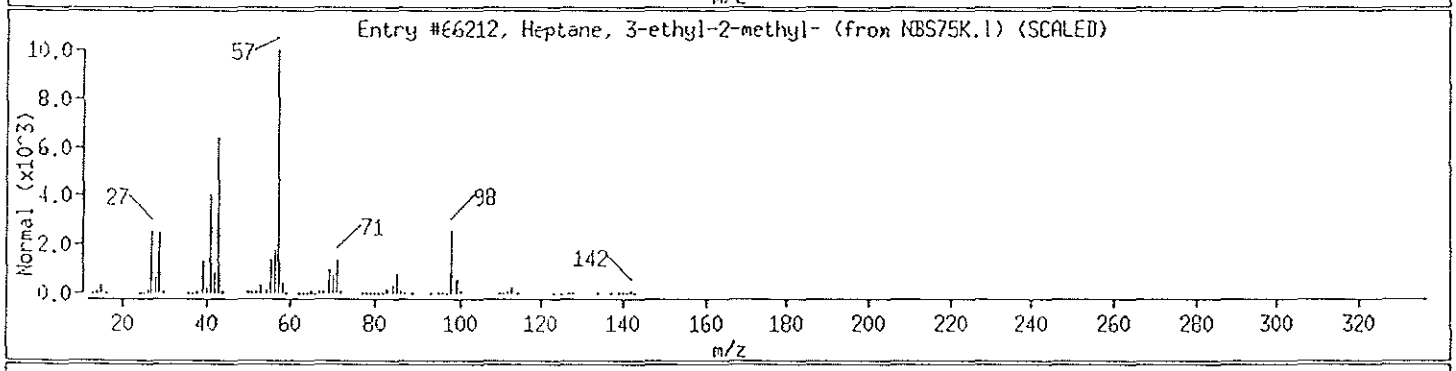
Column phase: J&W DB-5

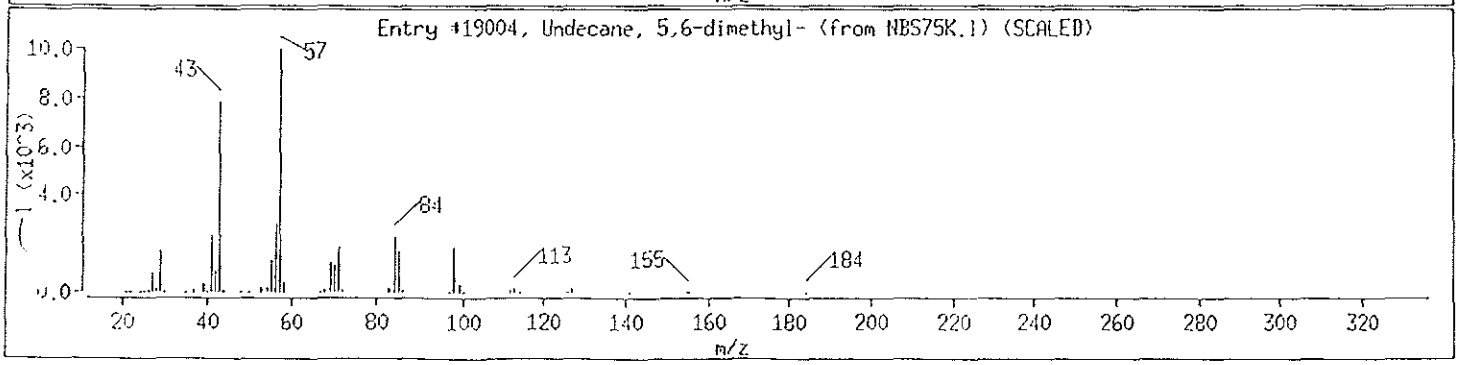
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decane, 5-methyl-	13151-35-4	NBS75K.1	67316	64	C11H24	156
Heptane, 3-ethyl-2-methyl-	14676-29-0	NBS75K.1	66212	53	C10H22	142
Undecane, 5,6-dimethyl-	17615-91-7	NBS75K.1	19004	53	C13H28	184





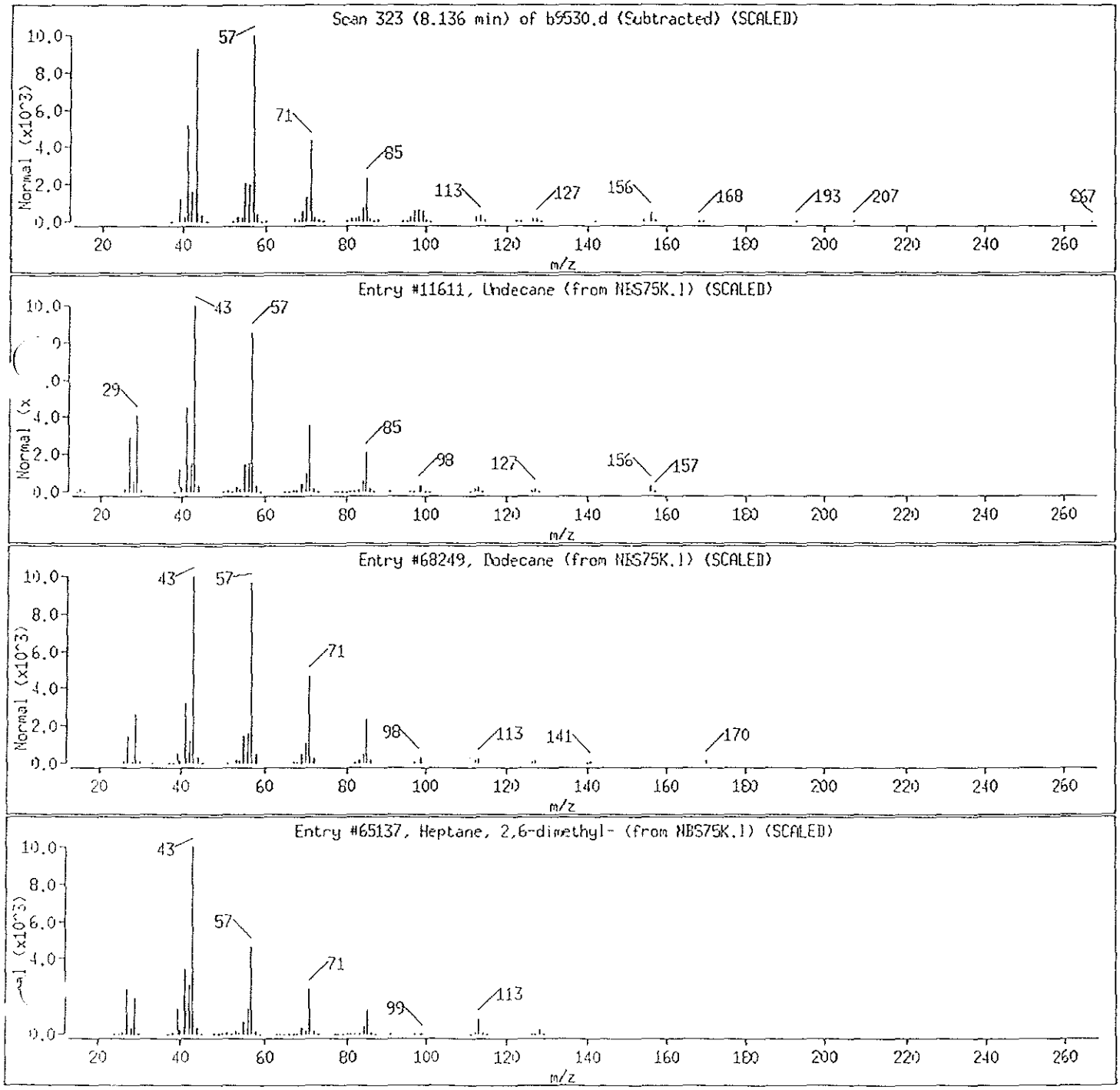




Data File: /chem/aux/msb.i/b011996.b/b9530.d
Date : 19-JAN-96 18:33
Client ID:
Sample Info: 17418n clj78ds005

Instrument: msb.i
Operator: K. Bigelow
Column phase: J&W DB-5
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Undecane	1120-21-4	NBS75K.l	11611	97	C11H24	156
Dodecane	112-40-3	NBS75K.l	68249	80	C12H26	170
Heptane, 2,6-dimethyl-	1072-05-5	NBS75K.l	65137	76	C9H20	128



Data File: /chem/aux/msb.i/b011996.b/b9530.d

Date : 19-JAN-96 18:33

Client ID:

Instrument: msb.i

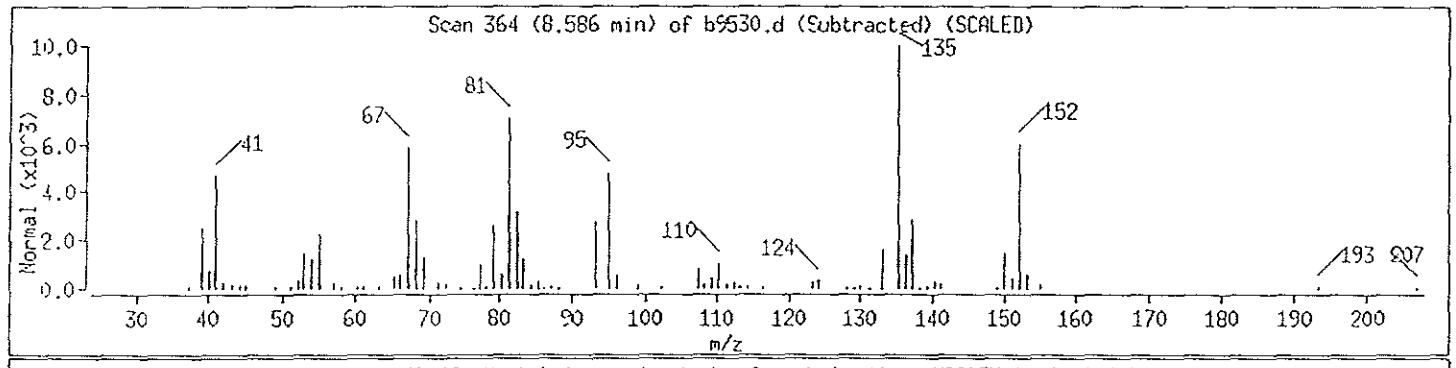
Sample Info: 17418n clj78ds005

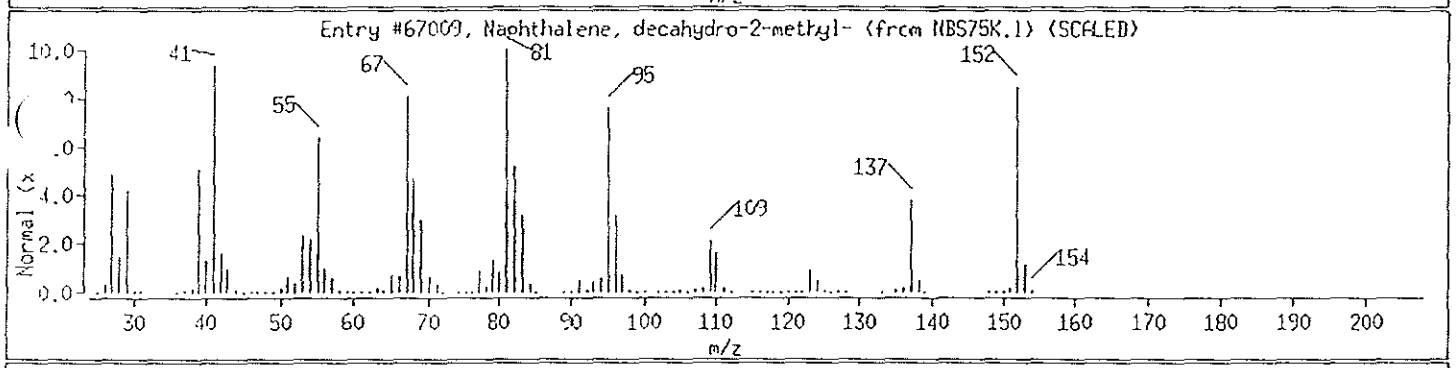
Operator: K. Bigelow

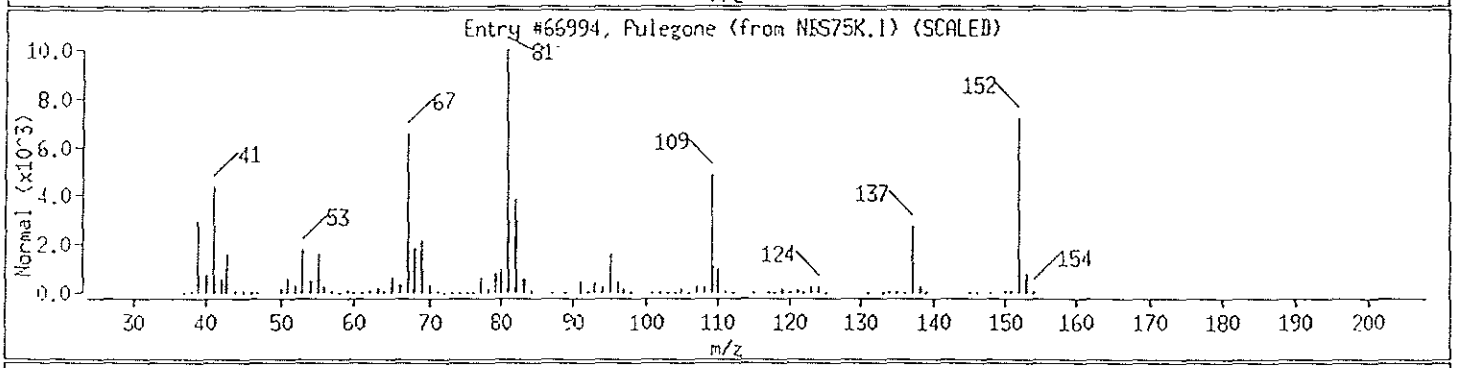
Column phase: J&W DB-5

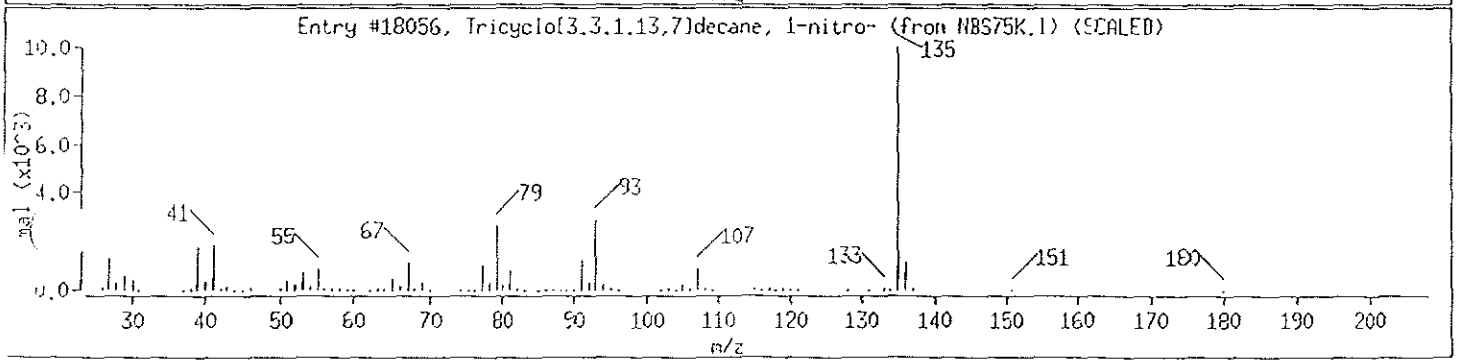
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, decahydro-2-methyl-	2958-76-1	NBS75K.l	67009	50	C11H20	152
Pulegone	89-82-7	NBS75K.l	66994	35	C10H16O	152
Tricyclo[3.3.1.13,7]decane, 1-nitro-	7575-82-8	NBS75K.l	18056	27	C10H15NO2	181









Data File: /chem/aux/msb.i/b011996.b/b9530.d

Date : 19-JAN-96 18:33

Client ID:

Instrument: msb.i

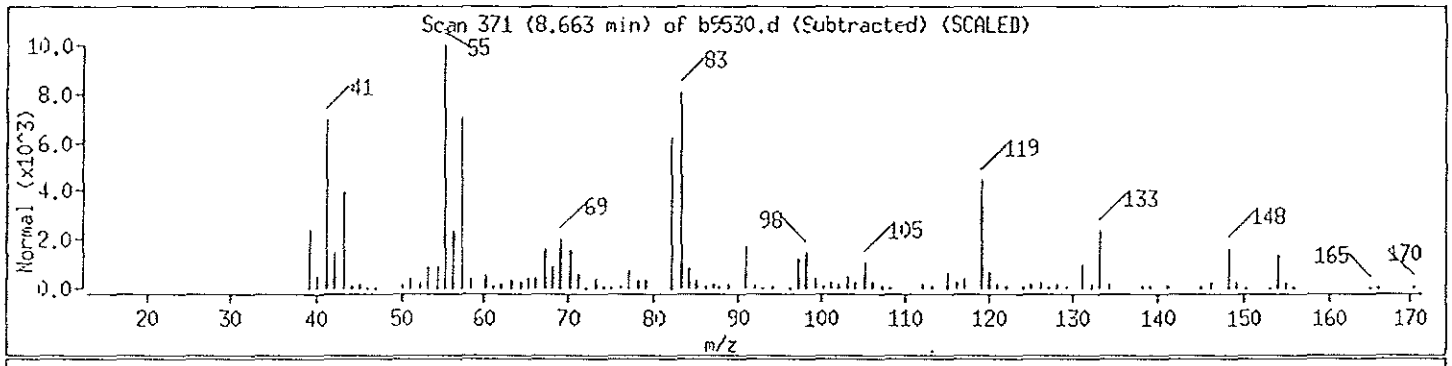
Sample Info: 17418n clj78ds005

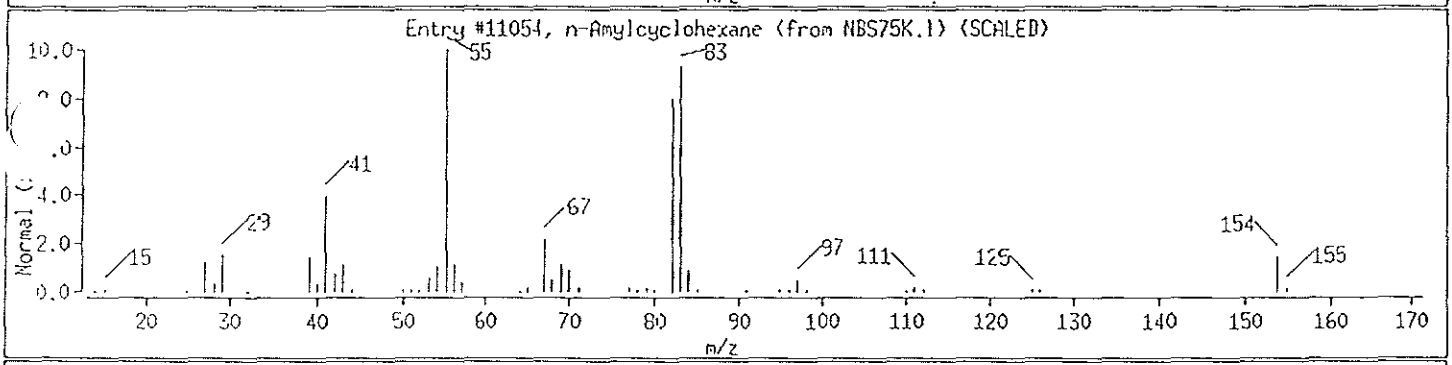
Operator: K. Bigelow

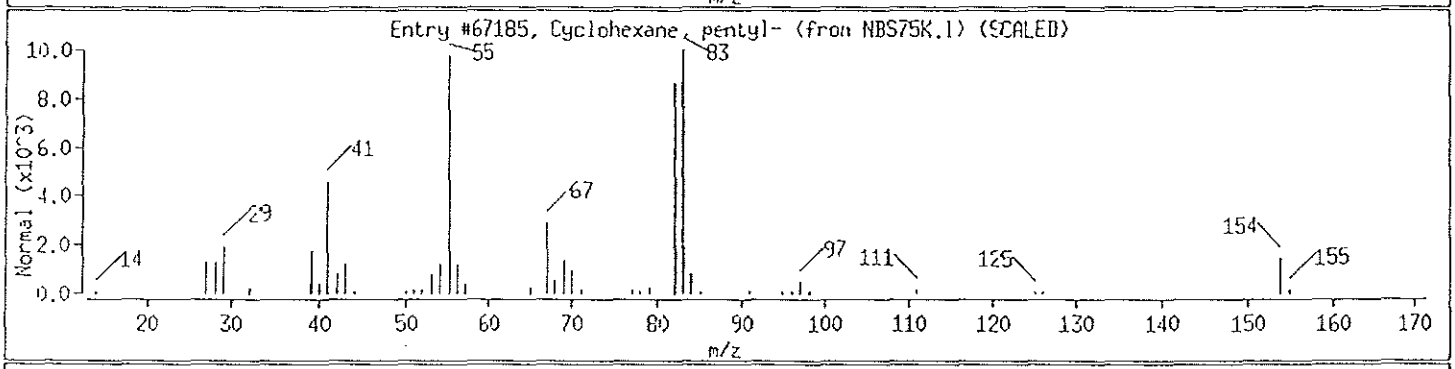
Column phase: J&W DB-5

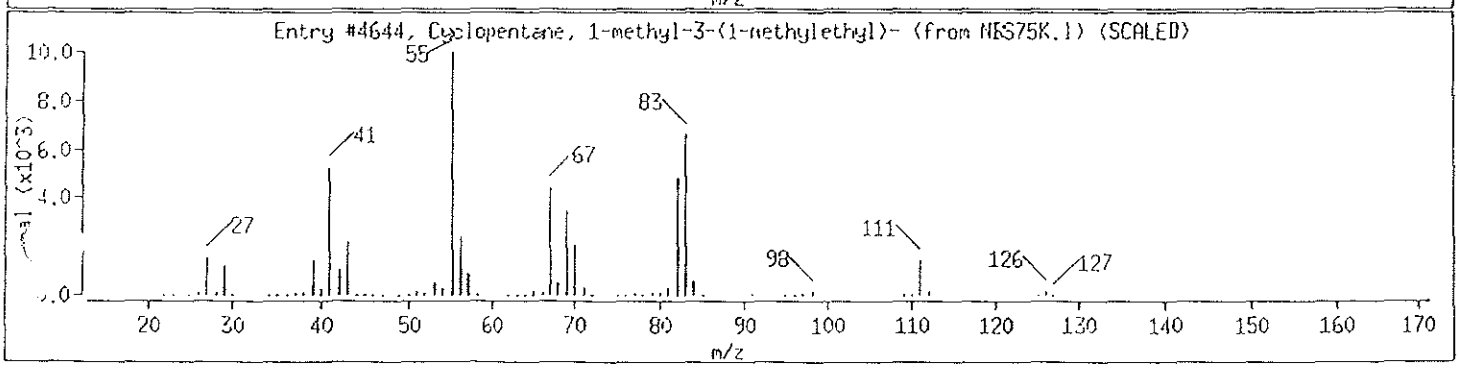
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
n-Amylcyclohexane	29949-27-7	NBS75K.1	11054	49	C11H22	154
Cyclohexane, pentyl-	4292-92-6	NBS75K.1	67185	46	C11H22	154
Cyclopentane, 1-methyl-3-(1-methylethyl)	53771-88-3	NBS75K.1	4644	46	C9H18	126









Data File: /chem/aux/msb.i/b011996.b/b9530.d

Date : 19-JAN-96 18:33

Client ID:

Instrument: msb.i

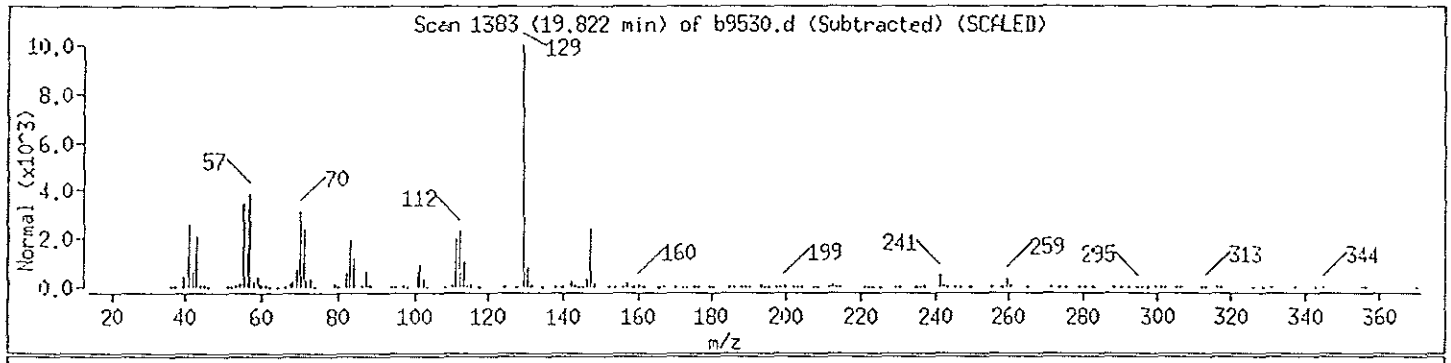
Sample Info: 17418n clj78ds005

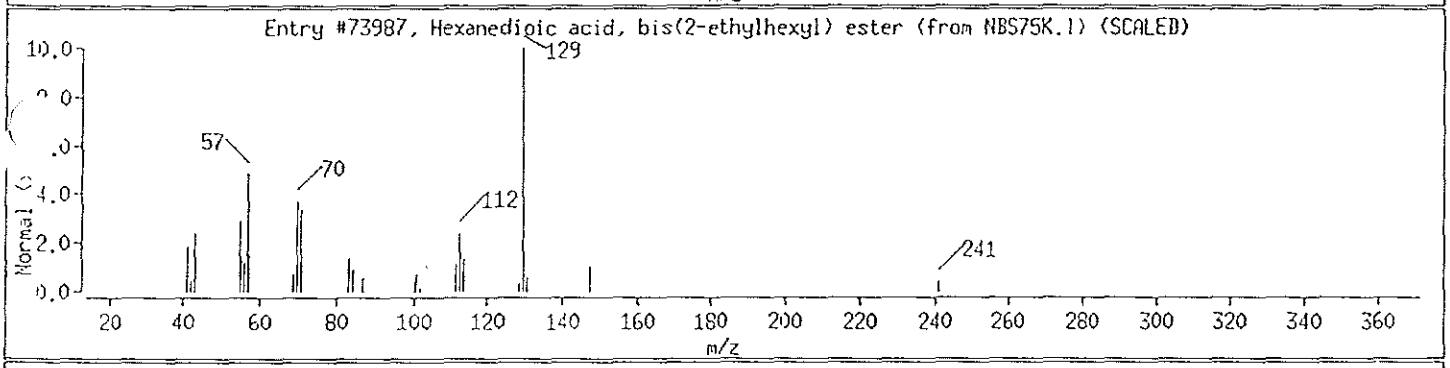
Operator: K. Bigelow

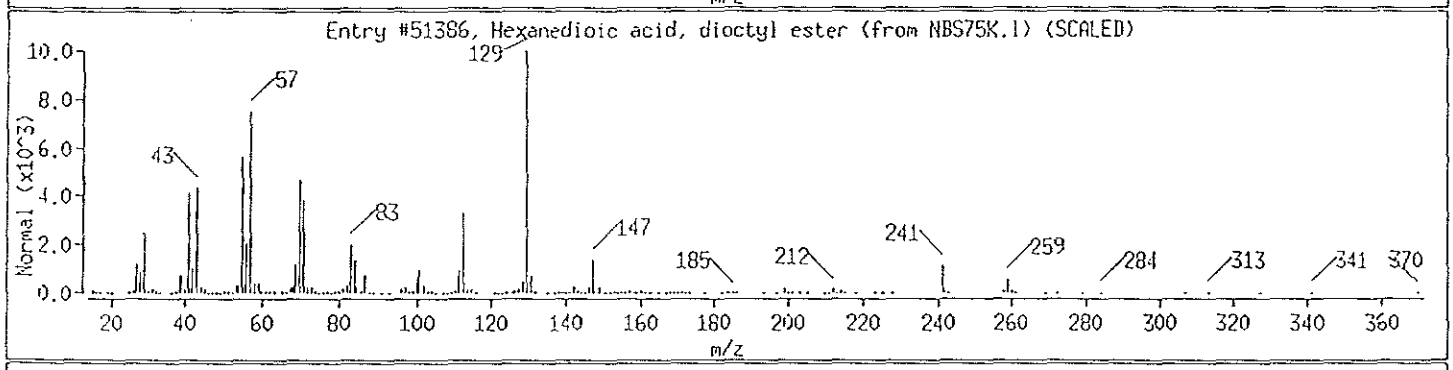
Column phase: J&W DB-5

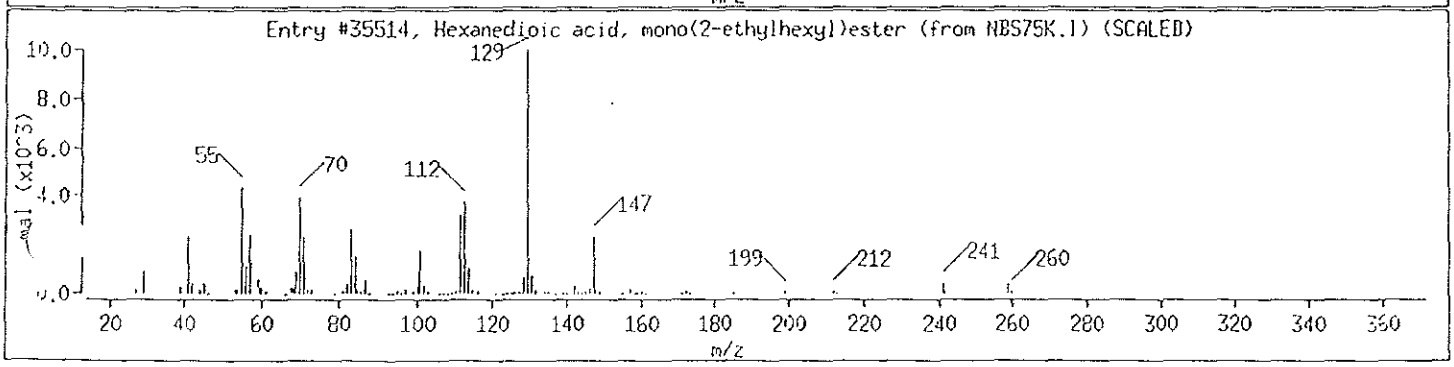
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Hexanedioic acid, bis(2-ethylhexyl) este	103-23-1	NBS75K.l	73987	74	C22H42O4	370
Hexanedioic acid, dioctyl ester	123-79-5	NBS75K.l	51386	68	C22H42O4	370
Hexanedioic acid, mono(2-ethylhexyl)este	4337-65-9	NBS75K.l	35514	58	C14H26O4	258









1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0384 EPA SAMPLE NO.

CLJ78RB001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418 SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) WATER Lab Sample ID: JP2497C

Sample wt/vol: 260 (g/mL) ML Lab File ID: B9544

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: _____ decanted: (Y/N) N Date Extracted: 01/19/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/20/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	38	U
111-44-4	bis(2-Chloroethyl)ether	38	U
95-57-8	2-Chlorophenol	38	U
541-73-1	1,3-Dichlorobenzene	38	U
106-46-7	1,4-Dichlorobenzene	38	U
95-50-1	1,2-Dichlorobenzene	38	U
95-48-7	2-Methylphenol	38	U
108-60-1	2,2'-oxybis(1-Chloropropane)	38	U
106-44-5	4-Methylphenol	38	U
621-64-7	N-Nitroso-di-n-propylamine	38	U
67-72-1	Hexachloroethane	38	U
98-95-3	Nitrobenzene	38	U
78-59-1	Isophorone	38	U
88-75-5	2-Nitrophenol	38	U
105-67-9	2,4-Dimethylphenol	38	U
111-91-1	bis(2-Chloroethoxy)methane	38	U
120-83-2	2,4-Dichlorophenol	38	U
120-82-1	1,2,4-Trichlorobenzene	38	U
91-20-3	Naphthalene	38	U
106-47-8	4-Chloroaniline	38	U
87-68-3	Hexachlorobutadiene	38	U
59-50-7	4-Chloro-3-methylphenol	38	U
91-57-6	2-Methylnaphthalene	38	U
77-47-4	Hexachlorocyclopentadiene	38	U
88-06-2	2,4,6-Trichlorophenol	38	U
95-95-4	2,4,5-Trichlorophenol	38	U
91-58-7	2-Chloronaphthalene	38	U
88-74-4	2-Nitroaniline	38	U
131-11-3	Dimethylphthalate	38	U
208-96-8	Acenaphthylene	38	U
606-20-2	2,6-Dinitrotoluene	38	U
99-09-2	3-Nitroaniline	38	U
83-32-9	Acenaphthene	38	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 0385

EPA SAMPLE NO.

CLJ78RB001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418 SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) WATER Lab Sample ID: JP2497C

Sample wt/vol: 260 (g/mL) ML Lab File ID: B9544

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: _____ decanted: (Y/N) N Date Extracted: 01/19/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/20/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	190	U
100-02-7	4-Nitrophenol	190	U
132-64-9	Dibenzofuran	38	U
121-14-2	2,4-Dinitrotoluene	38	U
84-66-2	Diethylphthalate	38	U
7005-72-3	4-Chlorophenyl-phenylether	38	U
86-73-7	Fluorene	38	U
100-01-6	4-Nitroaniline	38	U
534-52-1	4,6-Dinitro-2-methylphenol	96	U
101-55-3	4-Bromophenyl-phenylether	38	U
86-30-6	N-Nitrosodiphenylamine (1)	38	U
118-74-1	Hexachlorobenzene	38	U
87-86-5	Pentachlorophenol	38	U
85-01-8	Phenanthrene	38	U
120-12-7	Anthracene	38	U
86-74-8	Carbazole	38	U
84-74-2	Di-n-butylphthalate	38	U
206-44-0	Fluoranthene	38	U
129-00-0	Pyrene	38	U
85-68-7	Butylbenzylphthalate	38	U
91-94-1	3,3'-Dichlorobenzidine	38	U
56-55-3	Benzo(a)anthracene	38	U
218-01-9	Chrysene	38	U
117-81-7	bis(2-Ethylhexyl)phthalate	690	E
117-84-0	Di-n-octylphthalate	38	U
205-99-2	Benzo(b)fluoranthene	38	U
207-08-9	Benzo(k)fluoranthene	38	U
50-32-8	Benzo(a)pyrene	38	U
193-39-5	Indeno(1,2,3-cd)pyrene	38	U
53-70-3	Dibenz(a,h)anthracene	38	U
191-24-2	Benzo(g,h,i)perylene	38	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0386 EPA SAMPLE NO.

CLJ78RB001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) WATER Lab Sample ID: JP2497C

Sample wt/vol: 260 (g/mL) ML Lab File ID: B9544

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: _____ decanted: (Y/N) N Date Extracted: 01/19/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/20/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

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

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 565-61-7	2-Pentanone, 3-methyl-	5.14	16	JN
2. 123-42-2	2-Pentanone, 4-hydroxy-4-met	5.86	31	JNA
3. 2313-65-7	2-Hexanol, 3-methyl-	6.06	25	JN
4. 2432-55-5	Butyric acid, thio-, S-decyl	13.34	39	JN
5. 123-79-5	Hexanedioic acid, dioctyl es	19.81	360	JN

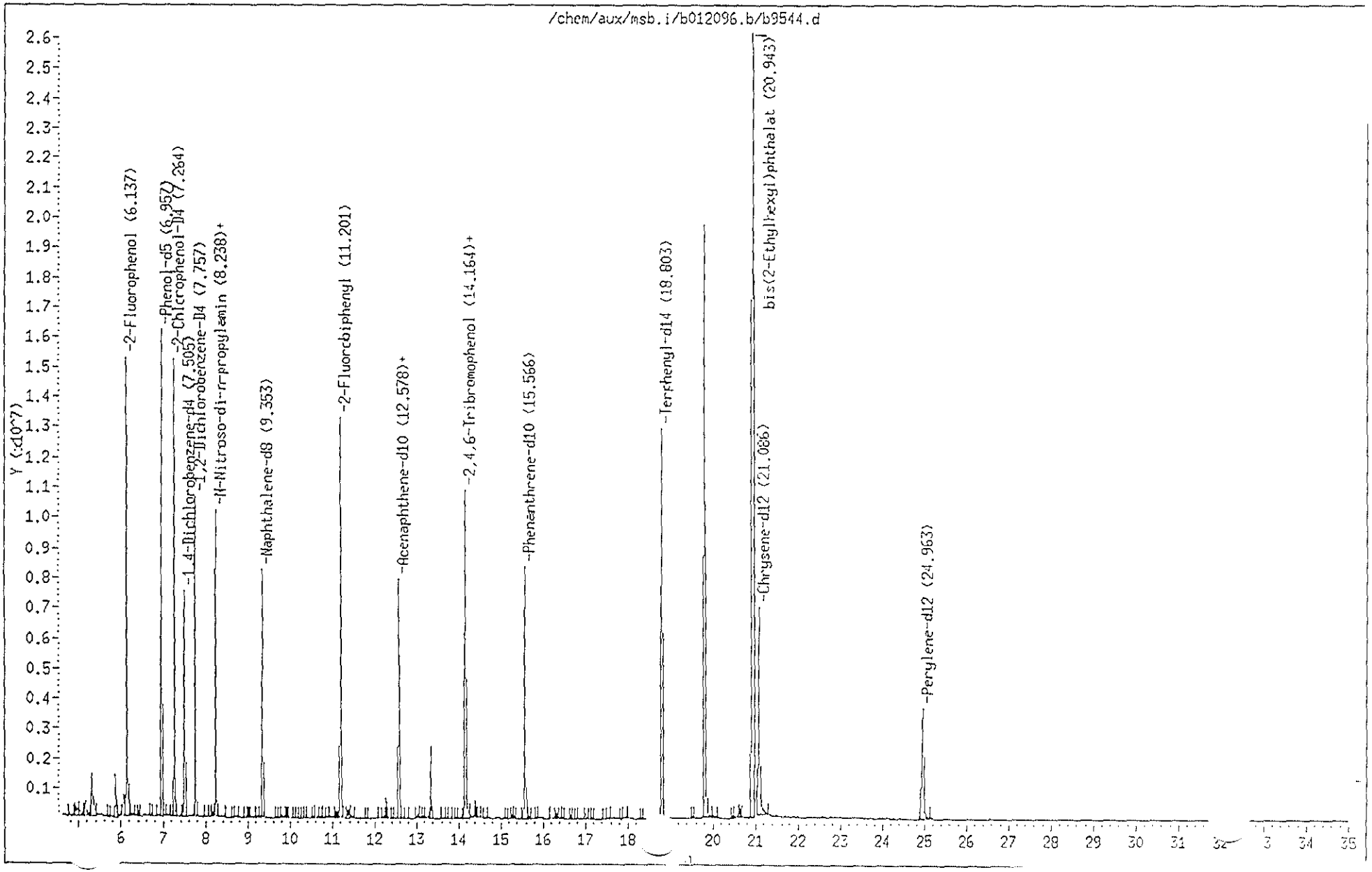
0387

Data File: /chem/aux/msb.i/b012096.b/b9544.d
Date : 20-JAN-96 16:21
Client ID:
Sample Info: 17418n clj78rb001

Column phase: J&W DB-5

Instrument: msb.i

Operator: K. Bigelow
Column diameter: 0.25



Data File: /chem/aux/msb.i/b012096.b/b9544.d
Report Date: 22-Jan-1996 07:10

OHM Analytical Division

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/aux/msb.i/b012096.b/b9544.d
Lab Smp Id:
Inj Date : 20-JAN-96 16:21
Operator : K. Bigelow Inst ID: msb.i
Smp Info : 17418n clj78rb001
Misc Info : jp2497c,nlc60123,ml,1,1
Comment :
Method : /chem/aux/msb.i/b012096.b/0112996bclp.m
Meth Date : 22-Jan-1996 07:08 kathryn Quant Type: ISTD
Cal Date : 20-JAN-96 10:52 Cal File: b9537a.d
Als bottle: 9
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

K Bigelow

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)	
	3	2-Fluorophenol	112.00	6.137	6.126	(0.818)	6754393	100	100(R)	
S	4	Phenol-d5	99.00	6.957	6.946	(0.927)	7676146	93.5	93.5(R)	
S	7	2-Chlorophenol-D4	132.00	7.264	7.263	(0.968)	6659506	103	103(R)	
•	10	1,4-Dichlorobenzene-d4	152.00	7.505	7.504	(1.000)	2039540	40.0		
S	13	1,2-Dichlorobenzene-D4	152.00	7.757	7.756	(1.034)	2833242	65.8	65.8(R)	
	17	N-Nitroso-di-n-propylamine	70.00	8.238	7.965	(1.061)	820258	13.8	~~13.8(Q)~~	ND, Rt, MS
S	19	Nitrobenzene-d5	82.00	8.239	8.239	(0.881)	4774856	68.2	68.2(R)	
•	27	Naphthalene-d8	136.00	9.353	9.346	(1.000)	6585667	40.0		
S	37	2-Fluorobiphenyl	172.00	11.201	11.200	(0.890)	7999227	71.7	71.7(R)	
•	44	Acenaphthene-d10	164.00	12.578	12.583	(1.000)	3490231	40.0		
	48	2,4-Dinitrotoluene	165.00	12.578	12.912	(1.000)	485932	10.6	~~10.6(Q)~~	ND, Rt, MS
S	56	2,4,6-Tribromophenol	330.00	14.164	14.164	(1.126)	2783539	132	132(R)	
	57	4-Bromophenyl-phenylether	248.00	14.164	14.559	(0.910)	201489	5.27	~~5.27(Q)~~	ND CT
•	60	Phenanthrene-d10	188.00	15.565	15.569	(1.000)	5541502	40.0		
S	68	Terphenyl-d14	244.00	18.803	18.794	(0.892)	8930582	78.7	78.7(R)	
	70	bis(2-Ethylhexyl)phthalate	149.00	20.932	20.923	(0.993)	21431334	180	180(A)	Repeat - Dilute
•	73	Chrysene-d12	240.00	21.085	21.089	(1.000)	4363816	40.0		
•	79	Perylene-d12	264.00	24.963	24.974	(1.000)	4308598	40.0		

QC Flag Legend

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

Data File: /chem/aux/msb.i/b012096.b/b9544.d

Date : 20-JAN-96 16:21

Client ID:

Instrument: msb.i

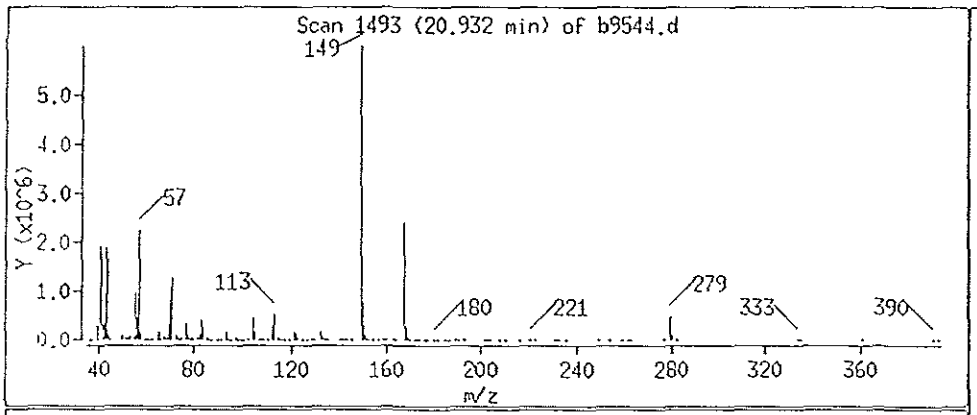
Sample Info: 17418n clj78rb001

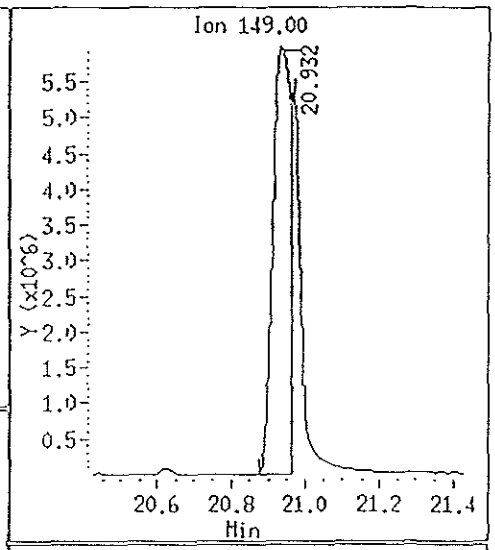
Operator: K. Bigelow

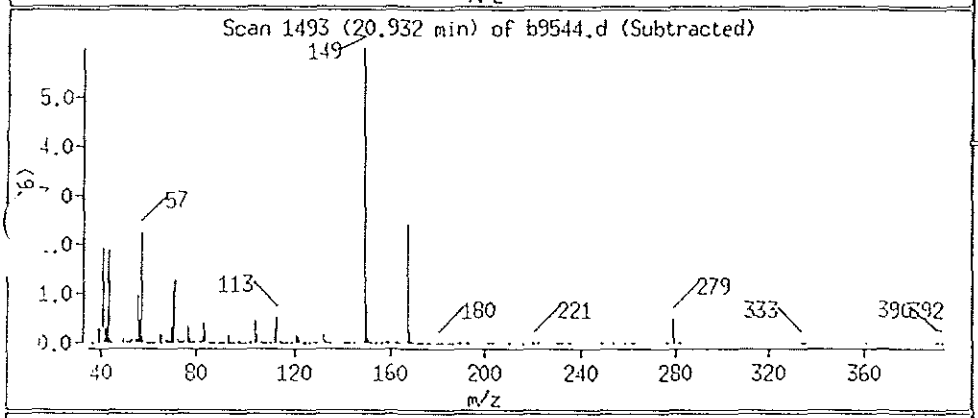
Column phase: J&W DB-5

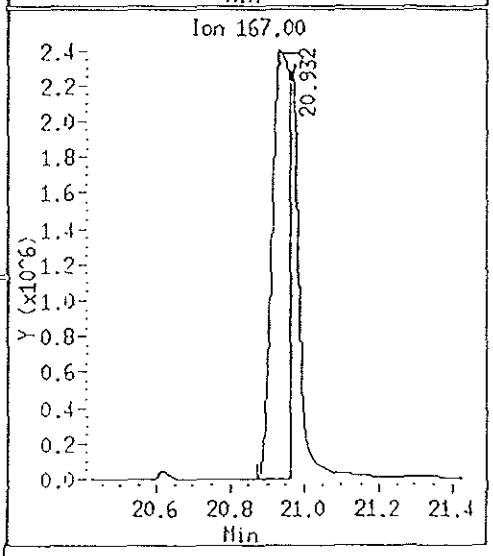
Column diameter: 0.25

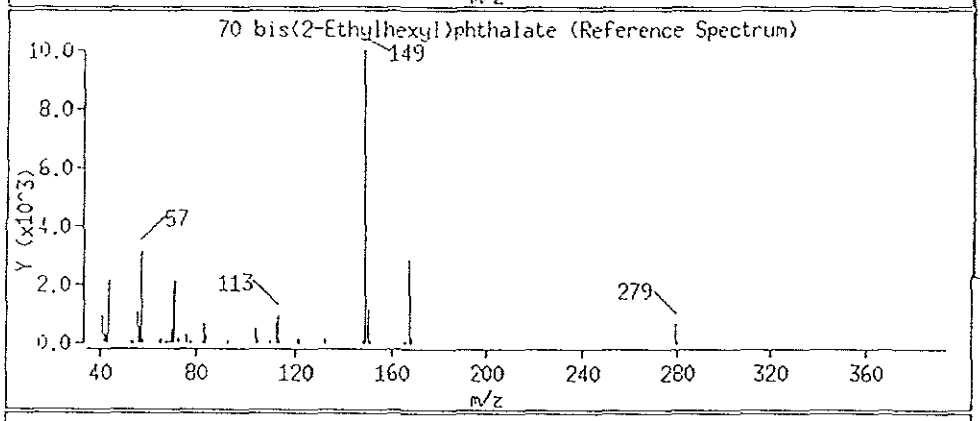
70 bis(2-Ethylhexyl)phthalate

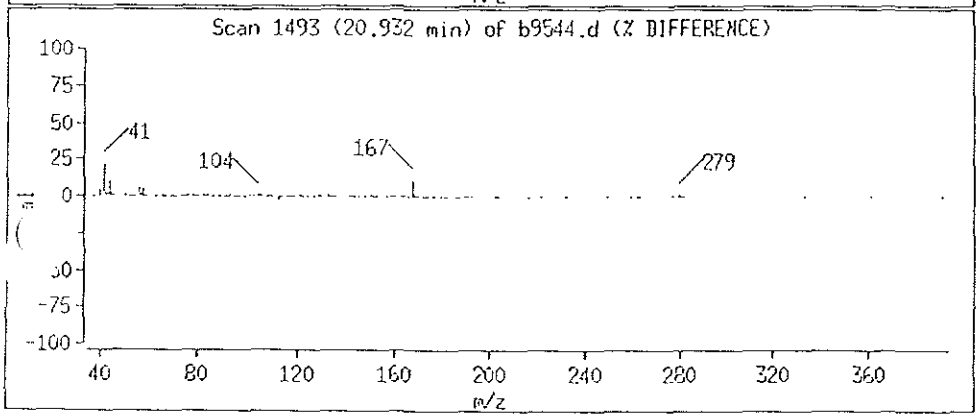












Data File: /chem/aux/msb.i/b012096.b/b9544.d

Date : 20-JAN-96 16:21

Client ID:

Instrument: msb.i

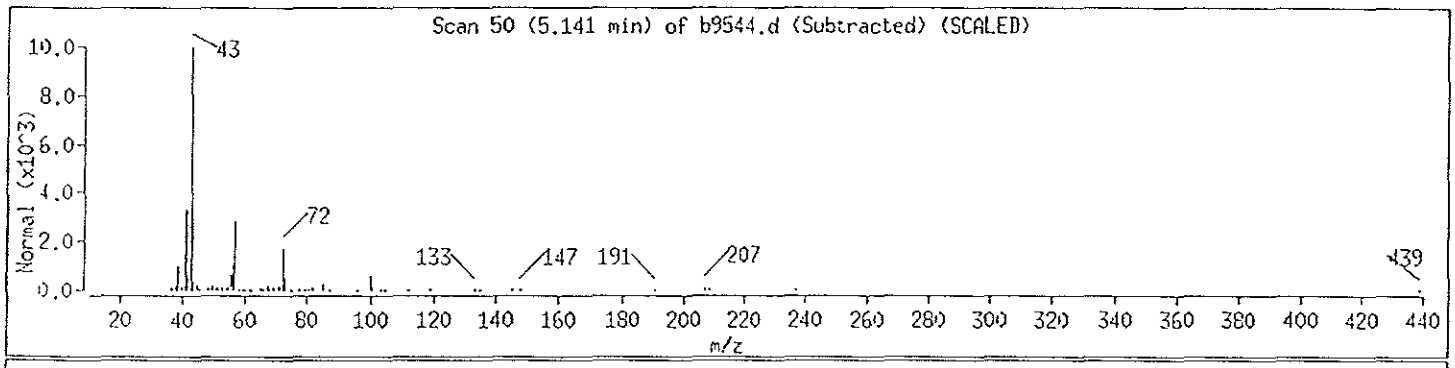
Sample Info: 17418n clj78rb001

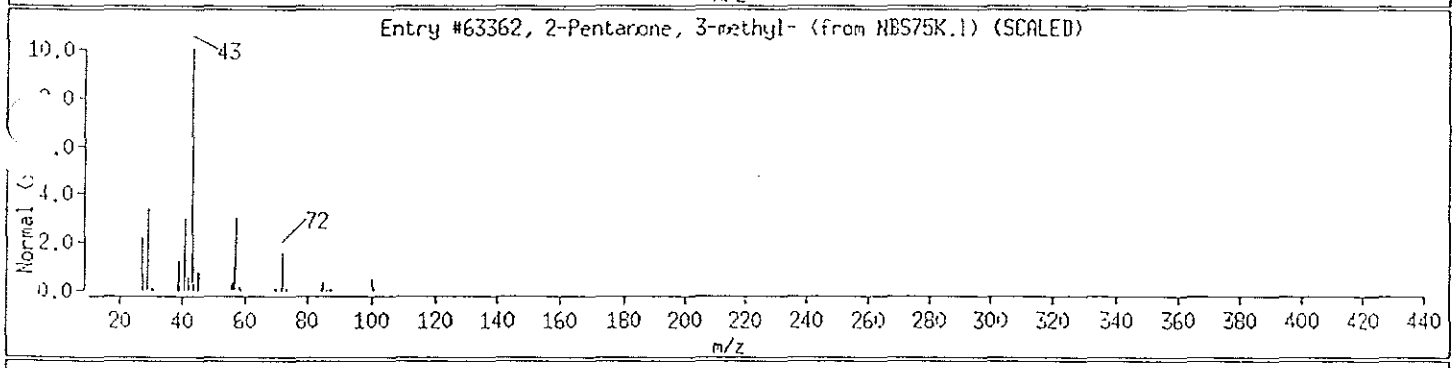
Operator: K. Bigelow

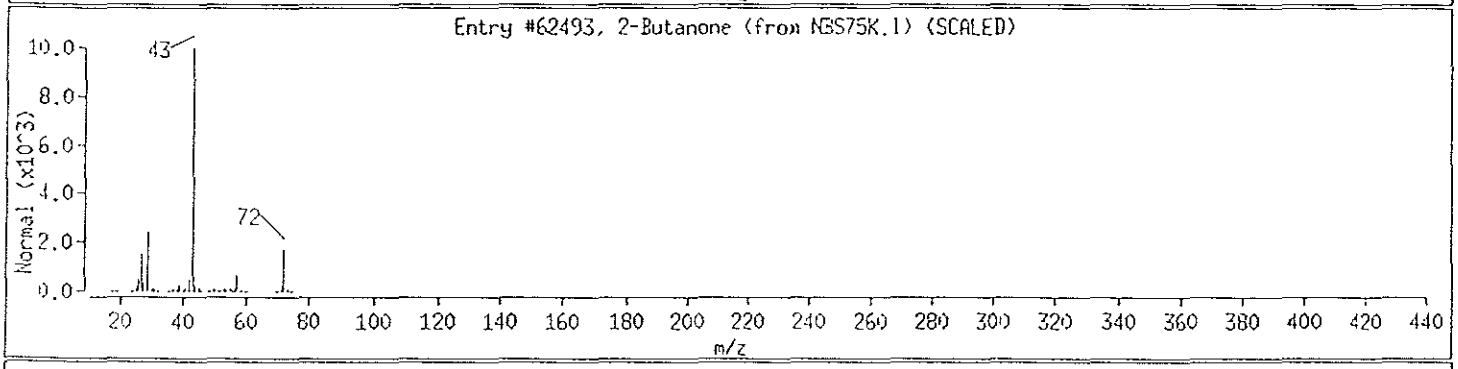
Column phase: J&W DB-5

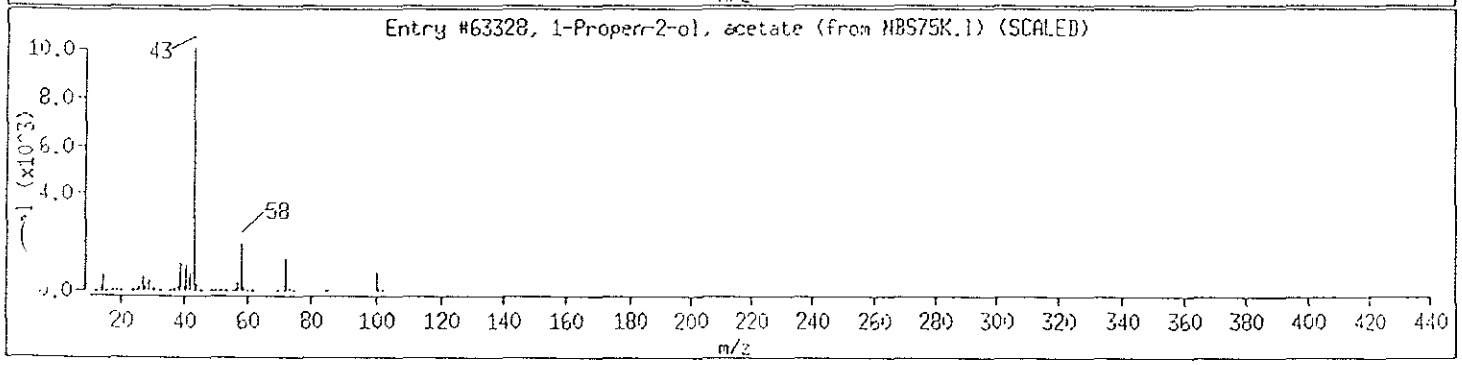
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanone, 3-methyl-	565-61-7	NBS75K.l	63362	83	C6H12O	100
2-Butanone	78-93-3	NBS75K.l	62493	38	C4H8O	72
1-Propen-2-ol, acetate	108-22-5	NBS75K.l	63328	37	C5H8O2	100









Data File: /chem/aux/msb.i/b012096.b/b9544.d

Date : 20-JAN-96 16:21

Client ID:

Instrument: msb.i

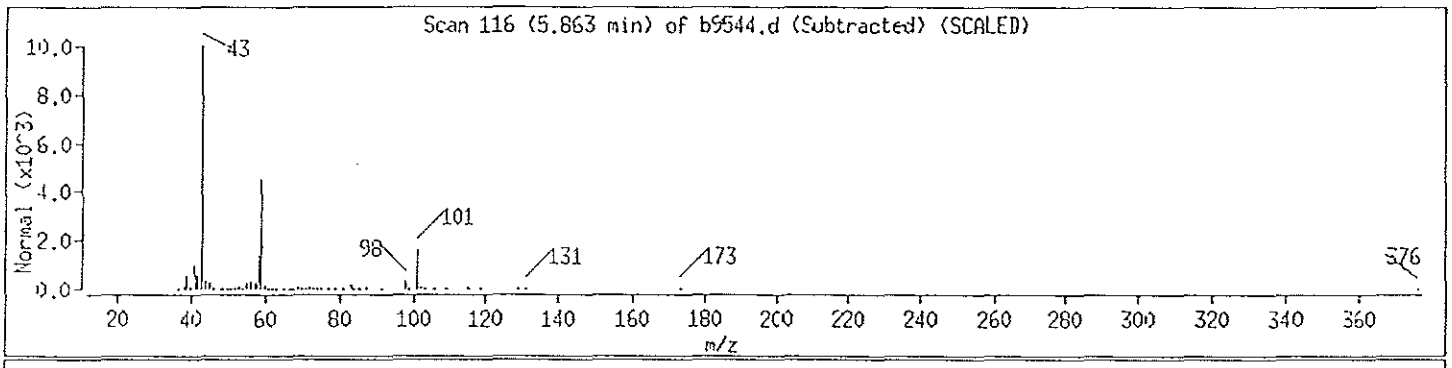
Sample Info: 17418n clj78rb001

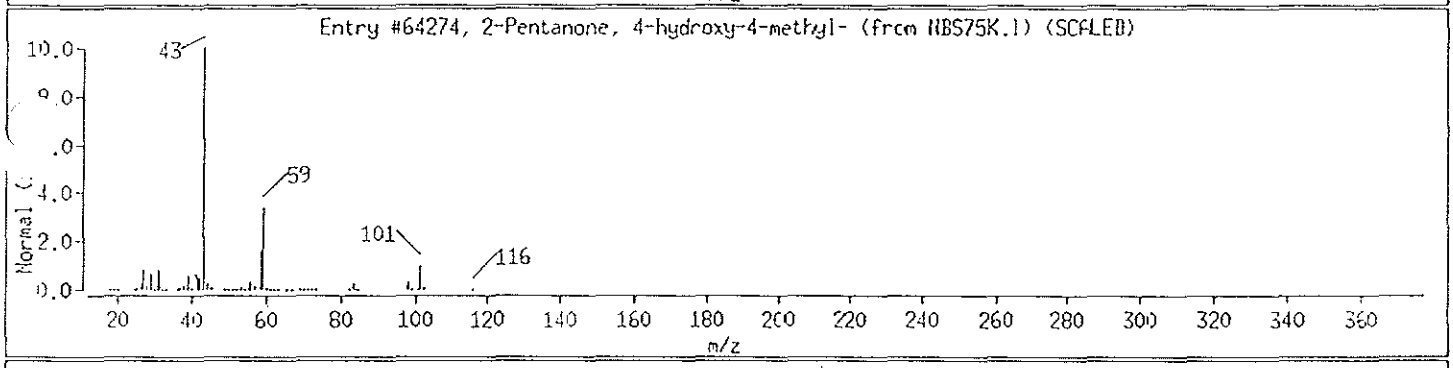
Operator: K. Bigelow

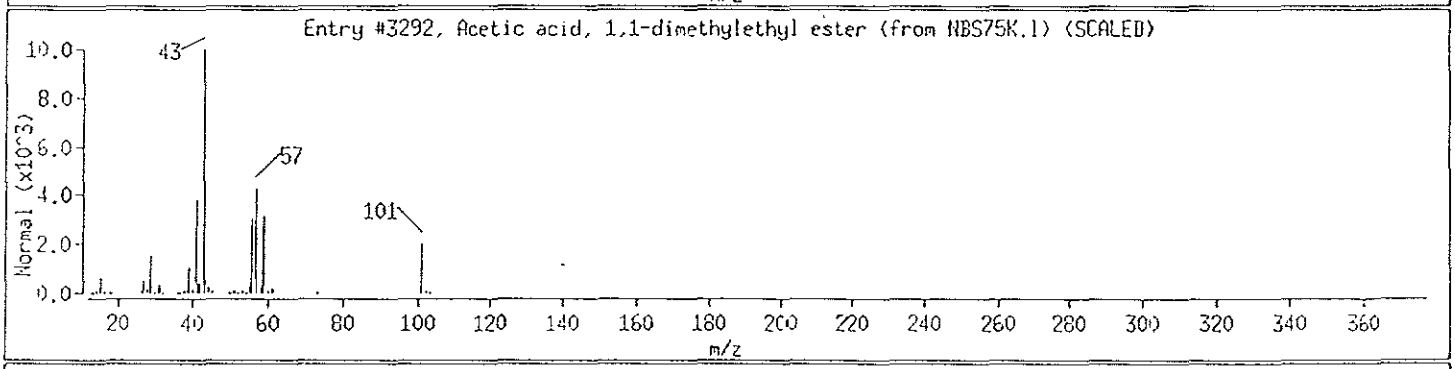
Column phase: J&W DB-5

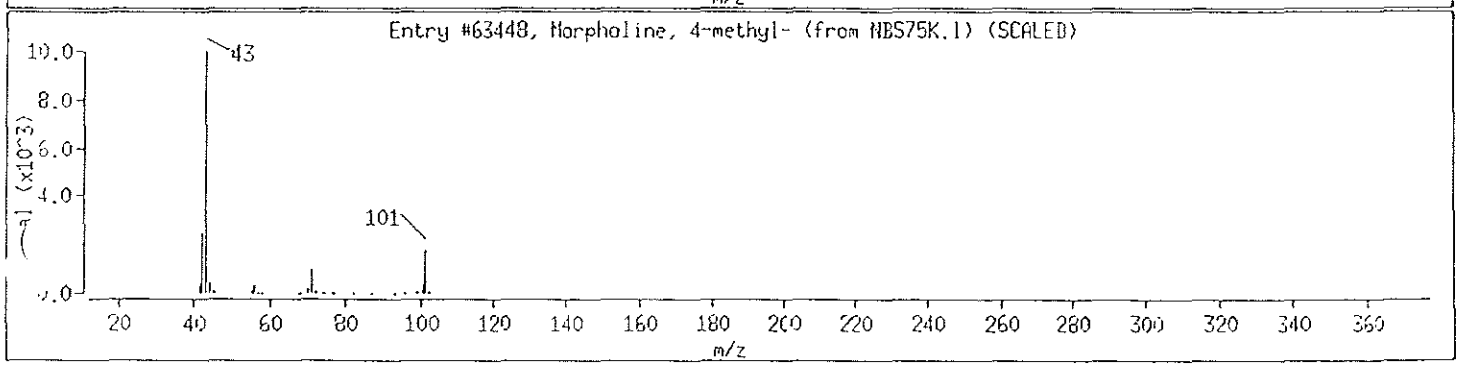
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NBS75K.l	64274	59	C6H12O2	116
Acetic acid, 1,1-dimethylethyl ester	540-88-5	NBS75K.l	3292	33	C6H12O2	116
Morpholine, 4-methyl-	109-02-4	NBS75K.l	63448	27	C5H11NO	101









Data File: /chem/aux/msb.i/b012096.b/b9544.d

Date : 20-JAN-96 16:21

Client ID:

Instrument: msb.i

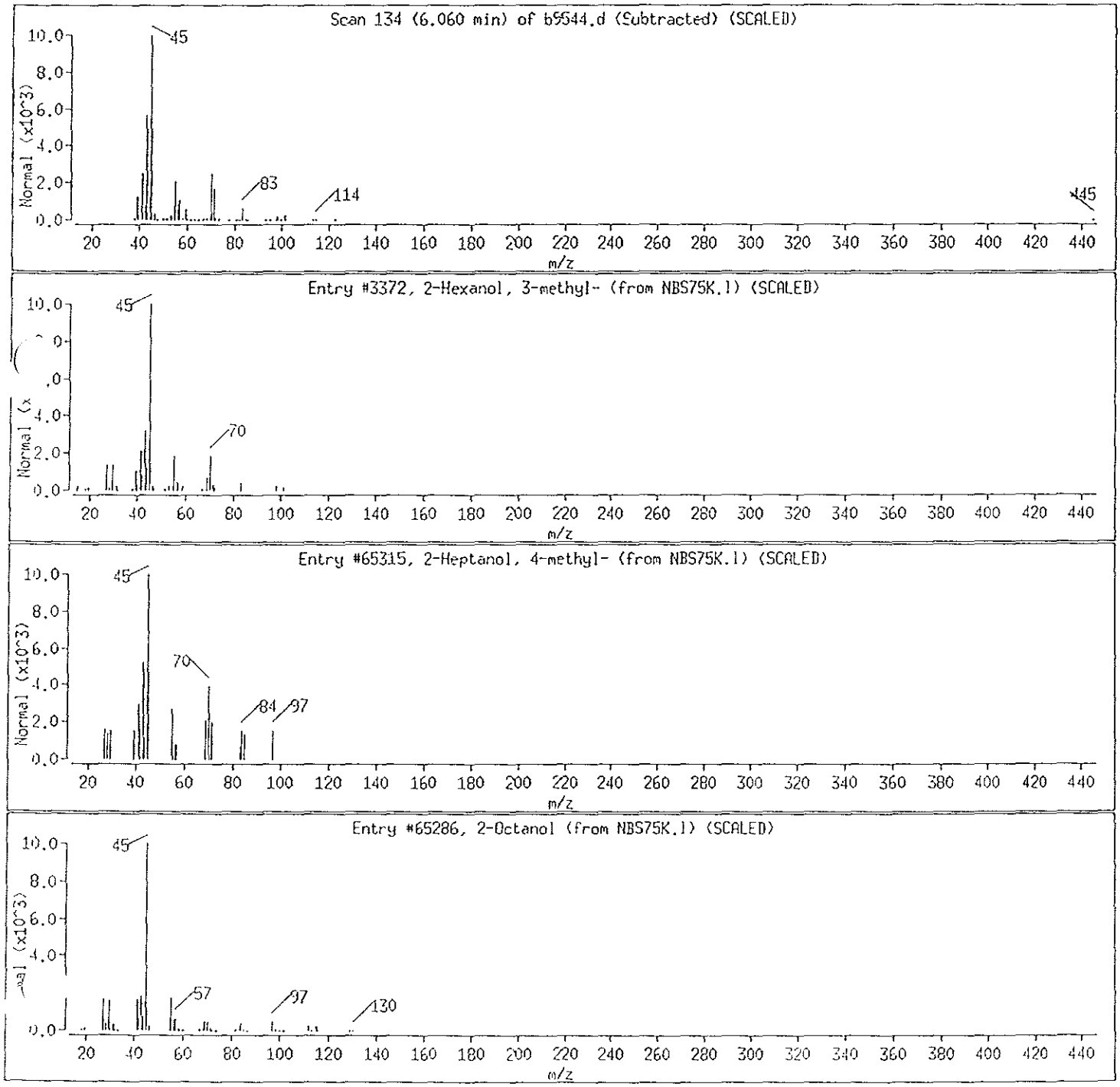
Sample Info: 17418n clj78rb001

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Hexanol, 3-methyl-	2313-65-7	NBS75K.l	3372	83	C7H16O	116
2-Heptanol, 4-methyl-	56298-90-9	NBS75K.l	65315	78	C8H18O	130
2-Octanol	123-96-6	NBS75K.l	65286	59	C8H18O	130



Data File: /chem/aux/msb.i/b012096.b/b9544.d

Date : 20-JAN-96 16:21

Client ID:

Instrument: msb.i

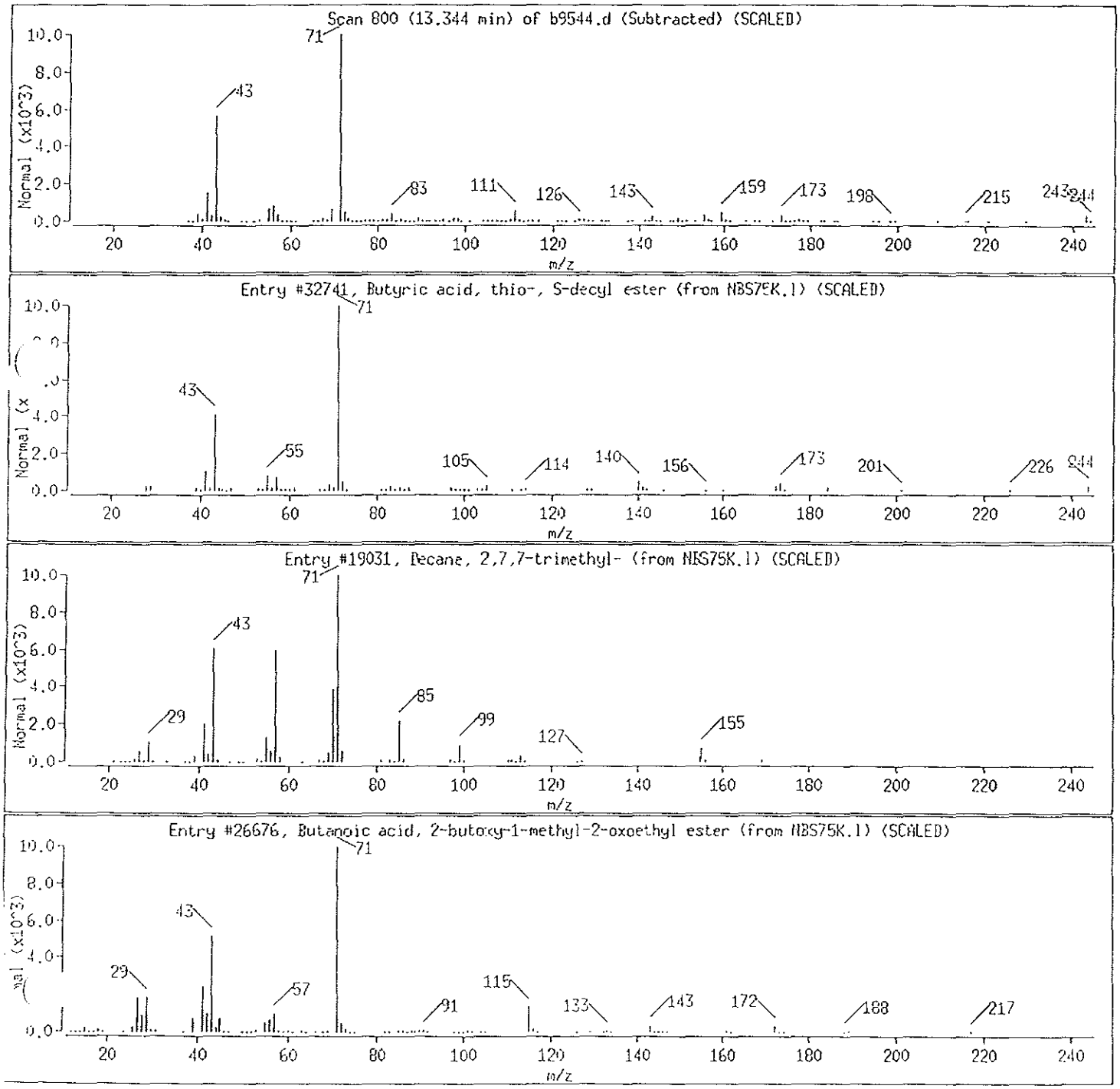
Sample Info: 17418n clj78rb001

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butyric acid, thio-, S-decyl ester	2432-55-5	NBS75K.l	32741	64	C14H28OS	244
Decane, 2,7,7-trimethyl-	62338-15-2	NBS75K.l	19031	50	C13H28	184
Butanoic acid, 2-butoxy-1-methyl-2-oxoet	7492-70-8	NBS75K.l	26676	45	C11H20O4	216



Data File: /chem/aux/msb.i/b012096.b/b9544.d

Date : 20-JAN-96 16:21

Client ID:

Instrument: msb.i

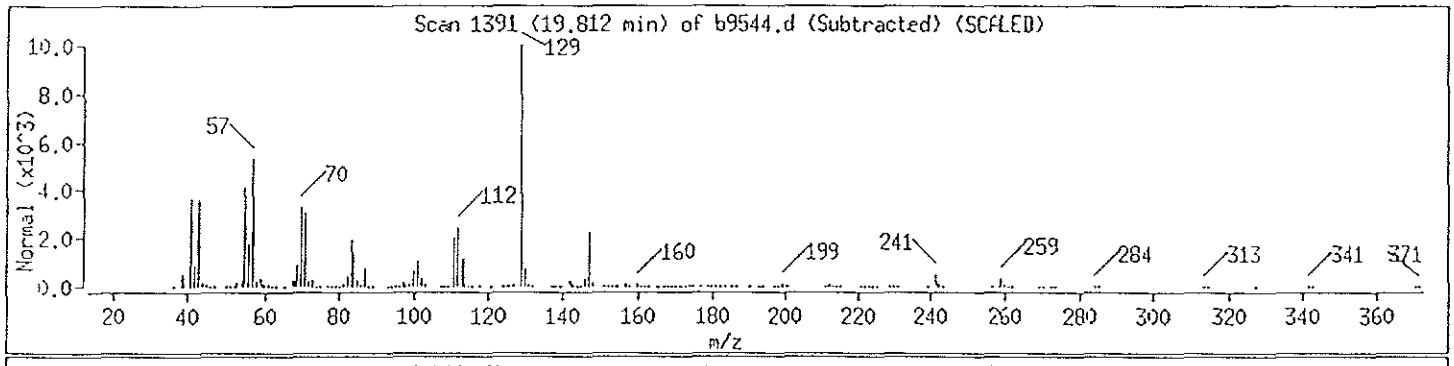
Sample Info: 17418n clj78rb001

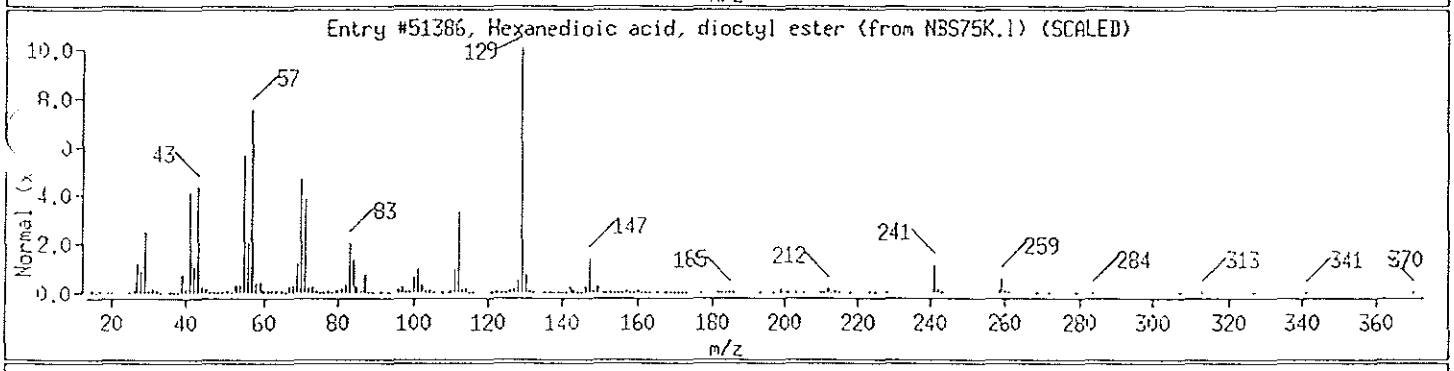
Operator: K. Bigelow

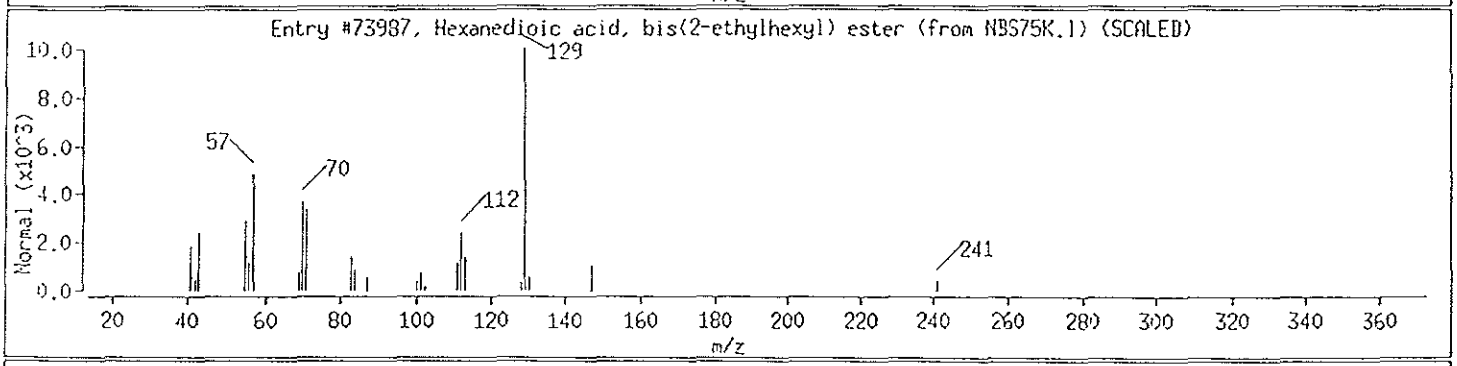
Column phase: J&W DB-5

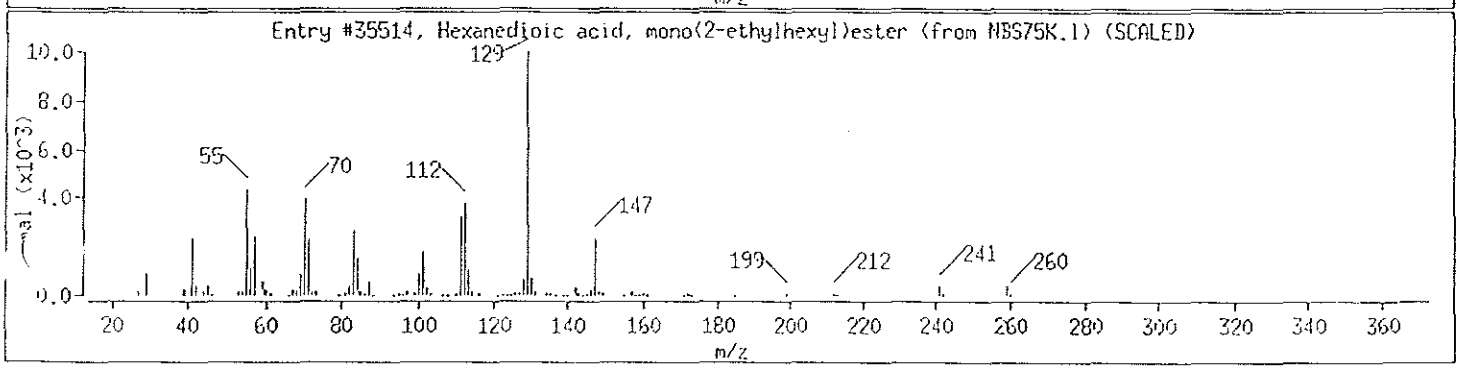
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Hexanedioic acid, dioctyl ester	123-79-5	NBS75K.1	51386	80	C22H4204	370
Hexanedioic acid, bis(2-ethylhexyl) este	103-23-1	NBS75K.1	73987	74	C22H4204	370
Hexanedioic acid, mono(2-ethylhexyl)este	4337-65-9	NBS75K.1	35514	58	C14H2604	258









1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0395

CLJ78RB001DL

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418 SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) WATER Lab Sample ID: JP2497C

Sample wt/vol: 260 (g/mL) ML Lab File ID: B9556

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: _____ decanted: (Y/N) N Date Extracted: 01/19/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/22/96

Injection Volume: 1.00 (uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	380	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	380	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 0396

EPA SAMPLE NO.

CLJ78RB001DL

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418 SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) WATER Lab Sample ID: JP2497C

Sample wt/vol: 260 (g/mL) ML Lab File ID: B9556

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: _____ decanted: (Y/N) N Date Extracted: 01/19/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/22/96

Injection Volume: 1.00 (uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	960	U
101-55-3	4-Bromophenyl-phenylether	380	U
86-30-6	N-Nitrosodiphenylamine (1)	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	380	U
218-01-9	Chrysene	380	U
117-81-7	bis(2-Ethylhexyl)phthalate	3000	D
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	380	U
207-08-9	Benzo(k)fluoranthene	380	U
50-32-8	Benzo(a)pyrene	380	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
53-70-3	Dibenz(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	380	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 0397
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CLJ78RB001DL

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) WATER Lab Sample ID: JP2497C

Sample wt/vol: 260 (g/mL) ML Lab File ID: B9556

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: _____ decanted: (Y/N) N Date Extracted: 01/19/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/22/96

Injection Volume: 1.00 (uL) Dilution Factor: 10.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

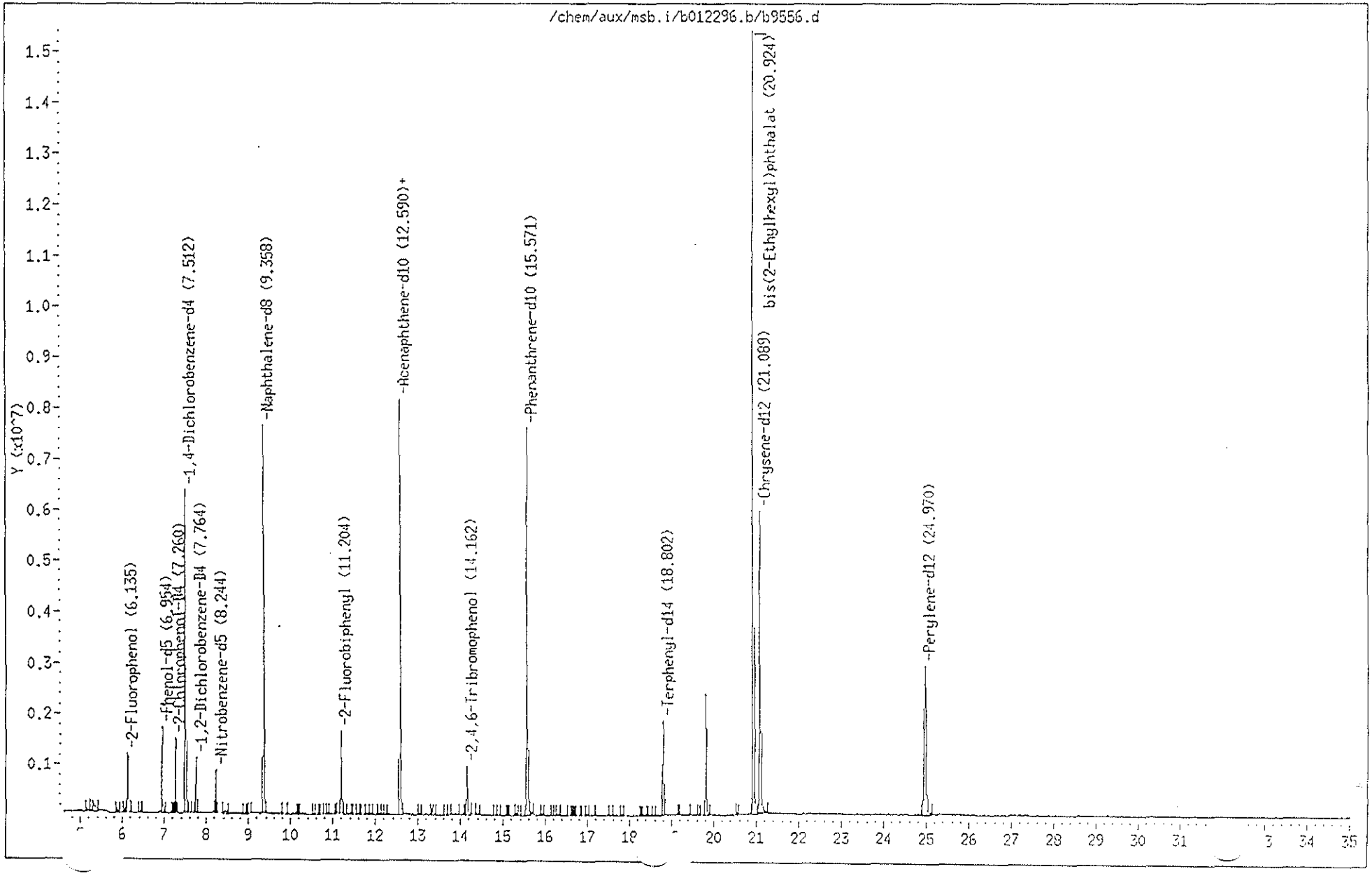
0398

Data File: /chem/aux/msb.i/b012296.b/b9556.d
Date : 22-JAN-96 10:04
Client ID:
Sample Info: 17418n clj78rb001

Column phase: J&W DB-5

Instrument: msb.i

Operator: K. Bigelow
Column diameter: 0.25



Data File: /chem/aux/msb.i/b012296.b/b9556.d
Report Date: 22-Jan-1996 10:52

OHM Analytical Division

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/aux/msb.i/b012296.b/b9556.d
Lab Smp Id:
Inj Date : 22-JAN-96 10:04
Operator : K. Bigelow Inst ID: msb.i
Smp Info : 17418n clj78rb001
Misc Info : jp2497c,n1c60123,m1,1,10
Comment :
Method : /chem/aux/msb.i/b012296.b/0112996bclp.m
Meth Date : 22-Jan-1996 10:52 kathryn Quant Type: ISTD
Cal Date : 22-JAN-96 09:17 Cal File: b9555.d
Als bottle: 3
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

Dilution for cpd # 70
K Bigelow

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
	3	2-Fluorophenol	112.00	6.146	6.137	(0.913)	666909	10.7	10.7(R)
S	4	Phenol-d5	99.00	6.954	6.957	(0.926)	803902	10.6	10.6(R)
S	7	2-Chlorophenol-D4	132.00	7.271	7.274	(0.968)	694630	11.4	11.4(R)
*	10	1,4-Dichlorobenzene-d4	152.00	7.512	7.515	(1.000)	1851055	40.0	
S	13	1,2-Dichlorobenzene-D4	152.00	7.764	7.767	(1.033)	311069	7.91	7.91(R)
S	19	Nitrobenzene-d5	82.00	8.244	8.249	(0.881)	416004	6.53	6.53(R)
*	27	Naphthalene-d8	136.00	9.358	9.356	(1.000)	5998604	40.0	
S	37	2-Fluorobiphenyl	172.00	11.204	11.209	(0.890)	927814	8.77	8.77(R)
*	44	Acenaphthene-d10	164.00	12.590	12.591	(1.000)	3378201	40.0	
	48	2,4-Dinitrotoluene	165.00	12.590	12.931	(1.000)	460110	10.7	~~10.7(Q)~~ ND, Rt, MS
S	56	2,4,6-Tribromophenol	330.00	14.162	14.171	(1.125)	215374	11.3	11.3(R)
*	60	Phenanthrene-d10	188.00	15.571	15.576	(1.000)	5100166	40.0	
S	68	Terphenyl-d14	244.00	18.802	18.809	(0.892)	1071849	10.0	10.0(R)
	70	bis(2-Ethylhexyl)phthalate	149.00	20.935	20.926	(0.993)	8573505	77.2	77.2
*	73	Chrysene-d12	240.00	21.089	21.103	(1.000)	3812075	40.0	
*	79	Perylene-d12	264.00	24.981	24.986	(1.000)	3360608	40.0	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: /chem/aux/msb.i/b012296.b/b9556.d

Date : 22-JAN-96 10:04

Client ID:

Instrument: msb.i

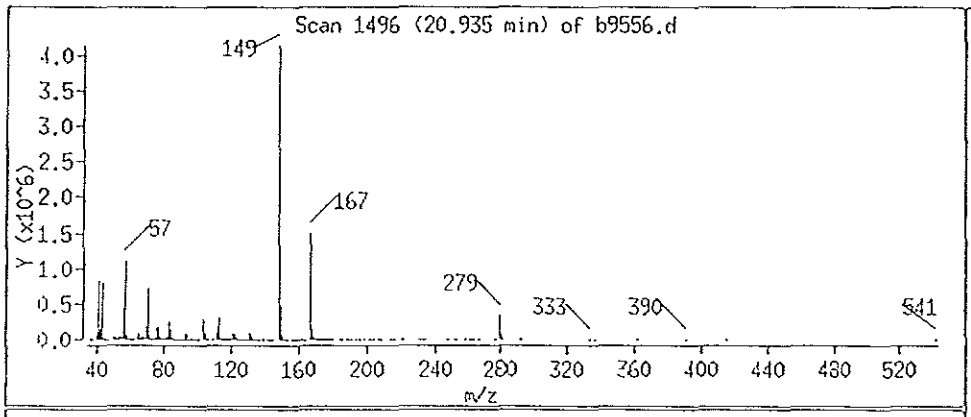
Sample Info: 17418n clj78rb001

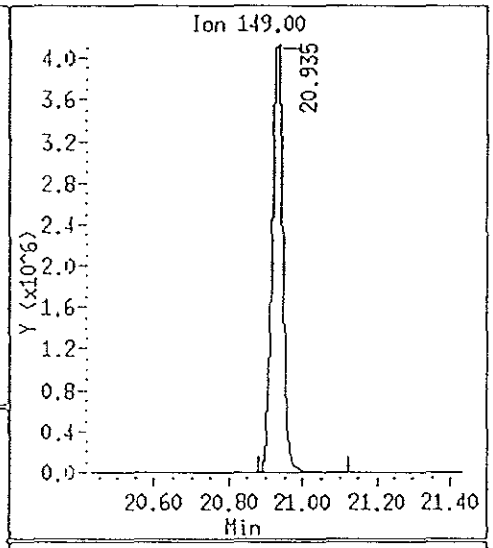
Operator: K. Bigelow

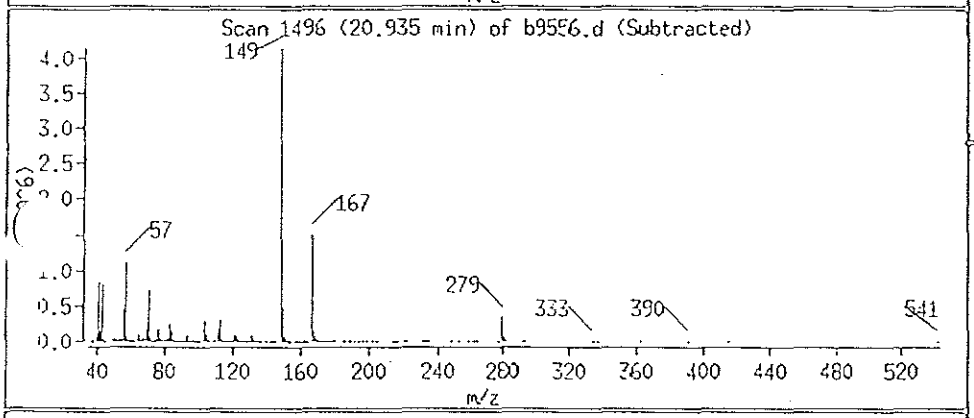
Column phase: J&W DB-5

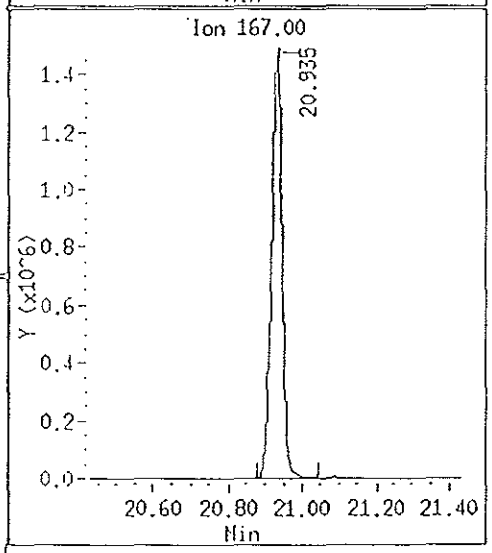
Column diameter: 0.25

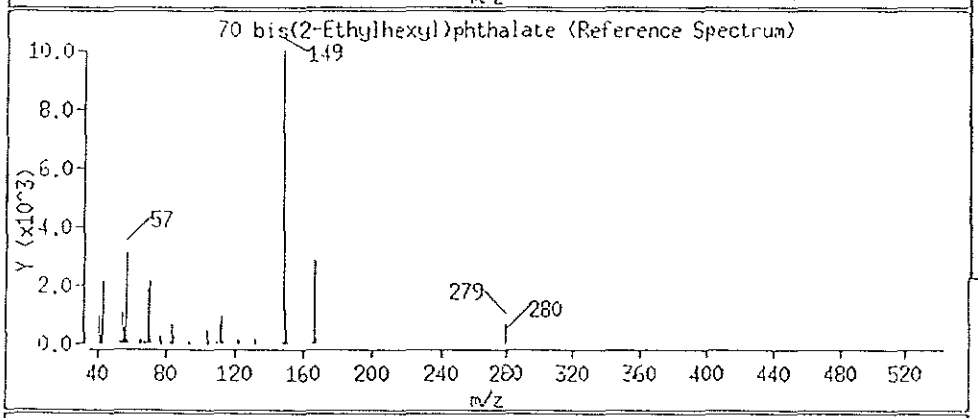
70 bis(2-Ethylhexyl)phthalate

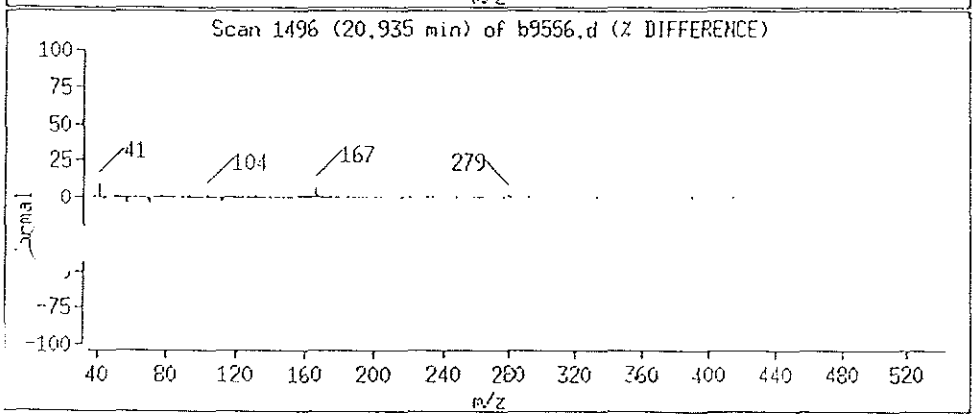












Report Date : 17-Jan-1996 16:27

OHM Analytical Division

INITIAL CALIBRATION DATA

Start Cal Date : 12-JAN-96 16:40
End Cal Date : 12-JAN-96 19:42
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem/aux/msb.i/b011296a.b/0112996bclp.m
Cal Date : 17-Jan-1996 16:27 kathryn
Curve Type : Average

Calibration File Names:
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Level 2: /chem/aux/msb.i/b011296a.b/b9402a.d
Level 3: /chem/aux/msb.i/b011296a.b/b9403a.d
Level 4: /chem/aux/msb.i/b011296a.b/b9404a.d
Level 5: /chem/aux/msb.i/b011296a.b/b9405a.d

Compound	20 Level 1	50 Level 2	80 Level 3	120 Level 4	160 Level 5	RRF	% RSD	
1 N-Nitrosodimethylamine	0.95082	0.91734	0.96450	0.94172	0.98026	0.95093	2.498	
2 Pyridine	1.78708	1.71723	1.79509	1.72989	1.77036	1.75993	1.970	
5 Phenol	1.78787	1.65578	1.60233	1.50414	1.41719	1.59346	8.920	
6 bis(2-Chloroethyl)ether	3.62173	3.30704	3.17860	2.92879	2.67038	3.14131	11.550	
8 2-Chlorophenol	1.54961	1.40085	1.35649	1.27120	1.16880	1.34939	10.579	
9 1,3-Dichlorobenzene	1.65983	1.50594	1.49082	1.41822	1.33999	1.48296	8.015	
11 1,4-Dichlorobenzene	1.67077	1.49454	1.46220	1.38296	1.27205	1.45650	10.115	
12 2-Methylphenol	1.27635	1.19970	1.17545	1.13610	1.06904	1.17133	6.551	
14 1,2-Dichlorobenzene	1.54503	1.33576	1.21214	1.06494	0.93207	1.22199	19.202	
15 2,2'-oxybis(1-Chloropropene)	2.33286	2.17536	2.08663	2.02249	1.88685	2.10084	7.948	
16 4-Methylphenol	1.33305	1.27470	1.24457	1.22249	1.20933	1.25683	3.921	
17 N-Nitroso-di-n-propylamine	1.22128	1.20289	1.16578	1.18494	1.13131	1.18124	2.938	
18 Hexachloroethane	0.70782	0.65557	0.63738	0.61009	0.57322	0.63682	7.911	
20 Nitrobenzene	0.45317	0.41928	0.40836	0.38635	0.36609	0.40675	8.140	
21 Isophorone	1.00300	0.93541	0.89349	0.84199	0.78479	0.89273	9.412	
22 2,4-Dimethylphenol	0.44120	0.40794	0.38833	0.36887	0.34970	0.39121	9.046	
23 2-Nitrophenol	0.26567	0.26143	0.24646	0.22865	0.21939	0.24432	8.238	
24 bis(2-Chloroethoxy)methane	0.61953	0.56638	0.54655	0.49941	0.45984	0.53834	11.421	
25 2,4-Dichlorophenol	0.35205	0.33758	0.32696	0.30883	0.28814	0.32271	7.728	
26 1,2,4-Trichlorobenzene	0.40837	0.37212	0.35028	0.32297	0.29148	0.34904	12.850	
28 Naphthalene	1.11212	0.97111	0.86792	0.73046	0.63086	0.86249	22.092	<-
29 4-Chloroaniline	0.65954	0.56031	0.51007	0.45184	0.39883	0.51622	19.490	
30 Hexachlorobutadiene	0.22762	0.20222	0.19176	0.17808	0.15443	0.19082	14.282	
31 4-Chloro-3-methylphenol	0.35817	0.35291	0.34467	0.31384	0.31200	0.33632	6.513	
2-Methylnaphthalene	0.73798	0.65777	0.61435	0.54858	0.50633	0.61301	14.849	
33 1-Methylnapthalene	0.73250	0.64676	0.61014	0.53998	0.50346	0.60657	14.872	
34 Hexachlorocyclopentadiene	0.17090	0.23142	0.24272	0.23894	0.21933	0.22066	13.241	

OHM Analytical Division

INITIAL CALIBRATION DATA

Start Cal Date : 12-JAN-96 16:40
End Cal Date : 12-JAN-96 19:42
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem/aux/msb.i/b011296a.b/0112996bclp.m
Cal Date : 17-Jan-1996 16:27 kathryn
Curve Type : Average

Compound	20 Level 1	50 Level 2	80 Level 3	120 Level 4	160 Level 5	___ RRF	% RSD
35 2,4,6-Trichlorophenol	0.48304	0.47887	0.44931	0.43651	0.39271	0.44809	8.178
36 2,4,5-Trichlorophenol	0.51006	0.50686	0.46524	0.45257	0.40460	0.46787	9.283
38 2-Chloronaphthalene	1.35697	1.26354	1.16259	1.09160	0.94605	1.16415	13.574
39 2-Nitroaniline	0.48566	0.48428	0.46624	0.45668	0.44611	0.46979	3.440
40 Dimethylphthalate	1.80240	1.66143	1.55551	1.45042	1.25073	1.54410	13.564
41 2,6-Dinitrotoluene	0.44780	0.43690	0.41137	0.40307	0.37091	0.41401	7.296
2 Acenaphthylene	2.19409	2.01151	1.84311	1.65679	1.37192	1.81548	17.515
43 3-Nitroaniline	0.45421	0.44618	0.44247	0.43206	0.41103	0.43719	3.809
45 2,4-Dinitrophenol	*****	0.12148	0.15765	0.13134	0.17455	0.15880	16.863
46 Acenaphthene	1.36094	1.20181	1.09945	1.01308	0.87136	1.10933	16.735 <-
47 4-Nitrophenol	0.15331	0.16052	0.16232	0.15705	0.14758	0.15616	3.782
48 2,4-Dinitrotoluene	0.59919	0.57942	0.56129	0.54244	0.50108	0.55670	6.745
49 Dibenzofuran	1.90525	1.72260	1.61377	1.47483	1.25951	1.59519	15.352
50 Diethylphthalate	1.87220	1.66567	1.54957	1.43026	1.21115	1.54577	16.052
51 4-Chlorophenyl-phenylether	0.79939	0.71314	0.65629	0.59953	0.52583	0.65883	15.904
52 Fluorene	1.50569	1.28172	1.14895	1.04871	0.94290	1.18559	18.416
53 4-Nitroaniline	0.42942	0.36544	0.35218	0.33256	0.31738	0.35939	12.030
54 4,6-Dinitro-2-methylphenol	0.08140	0.15755	0.18796	0.18464	0.17969	0.15825	28.162
55 N-Nitrosodiphenylamine	0.70478	0.62773	0.59849	0.52676	0.47573	0.58670	15.167
57 4-Bromophenyl-phenylether	0.29089	0.25878	0.24703	0.22225	0.20359	0.24451	13.765
58 Hexachlorobenzene	0.40101	0.36008	0.33603	0.30232	0.28250	0.33639	13.945
59 Pentachlorophenol	0.13545	0.15953	0.17101	0.16591	0.16196	0.15877	8.654
61 Phenanthrene	1.32801	1.16723	1.06965	0.95889	0.82841	1.07044	17.893
62 Anthracene	1.30681	1.16889	1.06875	0.94649	0.82000	1.06219	17.820
63 Carbazole	1.21592	1.07670	1.02091	0.94365	0.85917	1.02327	13.224
64 Di-n-butylphthalate	2.00889	1.82065	1.48284	1.13735	0.98473	1.49689	28.447
65 Fluoranthene	1.38812	1.25284	1.14958	1.00489	0.88288	1.13566	17.537
66 Benzidine	0.51227	0.43685	0.42920	0.42072	0.38207	0.43622	10.877
67 Pyrene	1.74330	1.55409	1.41627	1.29956	1.16093	1.43484	15.701
69 Butylbenzylphthalate	1.11376	1.00542	0.94897	0.85517	0.78389	0.94144	13.656
70 bis(2-Ethylhexyl)phthalate	1.55083	1.36986	1.27910	1.15342	1.03143	1.27693	15.623
3,3'-Dichlorobenzidine	0.60051	0.54343	0.52284	0.47565	0.46402	0.52129	10.565
72 Benzo(a)anthracene	1.49360	1.27456	1.21054	1.13536	1.03864	1.23054	13.923
74 Chrysene	1.40979	1.26793	1.14974	1.07101	0.93348	1.17639	14.217

OHM Analytical Division

INITIAL CALIBRATION DATA

Start Cal Date : 12-JAN-96 16:40
End Cal Date : 12-JAN-96 19:42
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem/aux/msb.i/b011296a.b/0112996bclp.m
Cal Date : 17-Jan-1996 16:27 kathryn
Curve Type : Average

	Compound	20 Level 1	50 Level 2	80 Level 3	120 Level 4	160 Level 5	RRF	% RSD
	75 Di-n-octylphthalate	2.58191	2.45777	2.25098	2.04036	1.79808	2.22582	14.182
	76 Benzo(b)fluoranthene	1.40389	1.31086	1.25365	1.32310	1.23635	1.30557	5.065
	77 Benzo(k)fluoranthene	1.34974	1.25228	1.23460	1.16122	1.00949	1.20146	10.540
	78 Benzo(a)pyrene	1.17833	1.13943	1.09963	1.10388	1.05308	1.11487	4.207
	80 Dibenzo(a,h)anthracene	0.98095	0.90821	0.91044	0.85304	0.81854	0.89423	6.940
	81 Indeno(1,2,3-cd)pyrene	1.15533	1.04884	1.04468	1.01484	0.92435	1.03761	7.973
	! Benzo(g,h,i)perylene	0.88925	0.86823	0.84095	0.73708	0.72647	0.82240	8.011
S	3 2-Fluorophenol	1.42752	1.36502	1.39941	1.35139	1.32718	1.37410	2.887
S	4 Phenol-d5	1.77455	1.64553	1.60734	1.52424	1.44498	1.59933	7.807
S	7 2-Chlorophenol-D4	1.49317	1.37788	1.32843	1.24601	1.16407	1.32191	9.507
S	13 1,2-Dichlorobenzene-D4	0.98151	0.88864	0.82120	0.75370	0.67600	0.82421	14.336
S	19 Nitrobenzene-d5	0.47831	0.43815	0.42064	0.40147	0.38699	0.42511	8.344
S	37 2-Fluorobiphenyl	1.55415	1.42336	1.27826	1.17865	1.01010	1.28891	16.387
S	56 2,4,6-Tribromophenol	0.25046	0.25757	0.25182	0.24730	0.22899	0.24723	4.389
S	68 Terphenyl-d14	1.20610	1.04044	0.93634	0.86874	0.77245	0.96431	17.265

Data File: /chem/aux/msb.i/b011996.b/b9520.d
Report Date: 19-Jan-1996 11:02

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msb.i
Lab File ID: b9520.d
Analysis Type:
Lab Sample ID:
Quant Type: ISTD

Injection Date: 19-JAN-96 10:44
Init. Calibration Date(s): JAN/12/96 JAN/12/96
Init. Calibration Times: 16:40 19:42
Method File: /chem/aux/msb.i/b011996.b/0112996bclp.m

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
	1 N-Nitrosodimethylamine	0.951	0.988	0.010	3.9	30.0
	2 Pyridine	1.760	1.638	0.010	6.9	30.0
$	3 2-Fluorophenol	1.374	1.335	0.600	2.9	25.0
$	4 Phenol-d5	1.599	1.627	0.800	1.7	25.0
	5 Phenol	1.593	1.636	0.800	2.7	25.0
	6 bis(2-Chloroethyl)ether	3.141	3.286	0.700	4.6	25.0
$	7 2-Chlorophenol-D4	1.322	1.274	0.800	3.6	25.0
	8 2-Chlorophenol	1.349	1.381	0.800	2.3	25.0
	9 1,3-Dichlorobenzene	1.493	1.447	0.600	2.4	25.0
	11 1,4-Dichlorobenzene	1.457	1.451	0.500	0.3	25.0
	12 2-Methylphenol	1.171	1.182	0.700	0.9	25.0
$	13 1,2-Dichlorobenzene-D4	0.824	0.846	0.400	2.7	25.0
	14 1,2-Dichlorobenzene	1.222	1.274	0.400	4.2	25.0
	15 2,2'-oxybis(1-Chloropropene)	2.101	2.373	0.010	12.9	30.0
	16 4-Methylphenol	1.257	1.237	0.600	1.6	25.0
	17 N-Nitroso-di-n-propylamine	1.181	1.140	0.500	3.5	25.0
	18 Hexachloroethane	0.637	0.611	0.300	4.1	25.0
$	19 Nitrobenzene-d5	0.425	0.416	0.200	2.2	25.0
	20 Nitrobenzene	0.407	0.406	0.200	0.2	25.0
	21 Isophorone	0.893	0.857	0.400	4.0	25.0
	22 2,4-Dimethylphenol	0.391	0.386	0.200	1.3	25.0
	23 2-Nitrophenol	0.244	0.250	0.100	2.4	25.0
	24 bis(2-Chloroethoxy)methane	0.538	0.516	0.300	4.2	25.0
	25 2,4-Dichlorophenol	0.323	0.323	0.200	0.0	25.0
	26 1,2,4-Trichlorobenzene	0.349	0.347	0.200	0.7	25.0
	28 Naphthalene	0.862	0.941	0.700	9.1	25.0
	29 4-Chloroaniline	0.516	0.570	0.010	10.4	30.0
	30 Hexachlorobutadiene	0.191	0.182	0.010	4.5	30.0
	31 4-Chloro-3-methylphenol	0.336	0.330	0.200	2.0	25.0
	32 2-Methylnaphthalene	0.613	0.642	0.400	4.8	25.0
	33 1-Methylnapthalene	0.607	0.574	0.010	5.3	30.0
	34 Hexachlorocyclopentadiene	0.221	0.197	0.010	10.9	30.0
	35 2,4,6-Trichlorophenol	0.448	0.445	0.200	0.7	25.0
	36 2,4,5-Trichlorophenol	0.468	0.472	0.200	0.9	25.0
$	37 2-Fluorobiphenyl	1.289	1.287	0.700	0.2	25.0
	38 2-Chloronaphthalene	1.164	1.174	0.800	0.9	25.0
	39 2-Nitroaniline	0.470	0.457	0.010	2.8	30.0
	40 Dimethylphthalate	1.544	1.540	0.010	0.3	30.0
	41 2,6-Dinitrotoluene	0.414	0.391	0.200	5.5	25.0
	42 Acenaphthylene	1.815	1.843	0.900	1.5	25.0

KBoyd

Data File: /chem/aux/msb.i/b011996.b/b9520.d
Report Date: 19-Jan-1996 11:02

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msb.i
Lab File ID: b9520.d
Analysis Type:
Lab Sample ID:
Quant Type: ISTD

Injection Date: 19-JAN-96 10:44
Init. Calibration Date(s): JAN/12/96 JAN/12/96
Init. Calibration Times: 16:40 19:42
Method File: /chem/aux/msb.i/b011996.b/0112996bclp.m

	COMPOUND	RRF	RFS0	MIN RRF	%D	MAX %D
	43 3-Nitroaniline	0.437	0.391	0.010	10.5	30.0
	45 2,4-Dinitrophenol	0.159	0.135	0.010	14.8	30.0
	46 Acenaphthene	1.109	1.091	0.900	1.7	25.0
	47 4-Nitrophenol	0.156	0.140	0.010	10.3	30.0
	48 2,4-Dinitrotoluene	0.557	0.527	0.200	5.3	25.0
	49 Dibenzofuran	1.595	1.660	0.800	4.1	25.0
	50 Diethylphthalate	1.546	1.518	0.010	1.8	30.0
	51 4-Chlorophenyl-phenylether	0.659	0.679	0.400	3.1	25.0
	52 Fluorene	1.186	1.197	0.900	1.0	25.0
	53 4-Nitroaniline	0.359	0.315	0.010	12.2	30.0
	54 4,6-Dinitro-2-methylphenol	0.158	0.165	0.010	4.4	30.0
	55 N-Nitrosodiphenylamine	0.587	0.596	0.010	1.6	30.0
$	56 2,4,6-Tribromophenol	0.247	0.224	0.010	9.5	30.0
	57 4-Bromophenyl-phenylether	0.245	0.270	0.100	10.5	25.0
	58 Hexachlorobenzene	0.336	0.334	0.100	0.8	25.0
	59 Pentachlorophenol	0.159	0.149	0.050	6.5	25.0
	61 Phenanthrene	1.070	1.109	0.700	3.6	25.0
	62 Anthracene	1.062	1.135	0.700	6.8	25.0
	63 Carbazole	1.023	0.979	0.010	4.3	30.0
	64 Di-n-butylphthalate	1.497	1.687	0.010	12.7	30.0
	65 Fluoranthene	1.136	1.195	0.600	5.2	25.0
	66 Benzidine	0.436	0.491	0.010	12.6	30.0
	67 Pyrene	1.435	1.545	0.600	7.7	25.0
$	68 Terphenyl-d14	0.965	1.066	0.500	10.4	25.0
	69 Butylbenzylphthalate	0.941	0.908	0.010	3.6	30.0
	70 bis(2-Ethylhexyl)phthalate	1.277	1.113	0.010	12.8	30.0
	71 3,3'-Dichlorobenzidine	0.521	0.448	0.010	14.0	30.0
	72 Benzo(a)anthracene	1.231	1.237	0.800	0.5	25.0
	74 Chrysene	1.176	1.164	0.700	1.0	25.0
	75 Di-n-octylphthalate	2.226	2.211	0.010	0.6	30.0
	76 Benzo(b)fluoranthene	1.306	1.199	0.700	8.2	25.0
	77 Benzo(k)fluoranthene	1.201	1.353	0.700	12.6	25.0
	78 Benzo(a)pyrene	1.115	1.125	0.700	0.9	25.0
	80 Dibenzo(a,h)anthracene	0.894	0.892	0.400	0.2	25.0
	81 Indeno(1,2,3-cd)pyrene	1.038	1.041	0.500	0.3	25.0
	82 Benzo(g,h,i)perylene	0.822	0.828	0.500	0.6	25.0

Data File: /chem/aux/msb.i/b012096.b/b9537a.d
Report Date: 20-Jan-1996 11:10

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

KBigelow

Instrument ID: msb.i
Lab File ID: b9537a.d
Analysis Type:
Lab Sample ID:
Quant Type: ISTD

Injection Date: 20-JAN-96 10:52
Init. Calibration Date(s): JAN/12/96 JAN/12/96
Init. Calibration Times: 16:40 19:42
Method File: /chem/aux/msb.i/b012096.b/0112996bclp.m

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
	1 N-Nitrosodimethylamine	0.951	0.980	0.010	3.1	30.0
	2 Pyridine	1.760	1.665	0.010	5.4	30.0
S	3 2-Fluorophenol	1.374	1.324	0.600	3.6	25.0
S	4 Phenol-d5	1.599	1.611	0.800	0.7	25.0
	5 Phenol	1.593	1.632	0.800	2.4	25.0
	6 bis(2-Chloroethyl)ether	3.141	3.254	0.700	3.6	25.0
S	7 2-Chlorophenol-D4	1.322	1.264	0.800	4.4	25.0
	8 2-Chlorophenol	1.349	1.365	0.800	1.2	25.0
	9 1,3-Dichlorobenzene	1.483	1.425	0.600	3.9	25.0
	11 1,4-Dichlorobenzene	1.457	1.475	0.500	1.3	25.0
	12 2-Methylphenol	1.171	1.146	0.700	2.1	25.0
S	13 1,2-Dichlorobenzene-D4	0.824	0.844	0.400	2.4	25.0
	14 1,2-Dichlorobenzene	1.222	1.238	0.400	1.3	25.0
	15 2,2'-oxybis(1-Chloropropene)	2.101	2.390	0.010	13.8	30.0
	16 4-Methylphenol	1.257	1.221	0.600	2.8	25.0
	17 N-Nitroso-di-n-propylamine	1.181	1.166	0.500	1.3	25.0
	18 Hexachloroethane	0.637	0.613	0.300	3.8	25.0
S	19 Nitrobenzene-d5	0.425	0.425	0.200	0.1	25.0
	20 Nitrobenzene	0.407	0.415	0.200	1.9	25.0
	21 Isophorone	0.893	0.867	0.400	2.9	25.0
	22 2,4-Dimethylphenol	0.391	0.389	0.200	0.6	25.0
	23 2-Nitrophenol	0.244	0.256	0.100	4.8	25.0
	24 bis(2-Chloroethoxy)methane	0.538	0.522	0.300	3.0	25.0
	25 2,4-Dichlorophenol	0.323	0.339	0.200	5.0	25.0
	26 1,2,4-Trichlorobenzene	0.349	0.350	0.200	0.2	25.0
	28 Naphthalene	0.862	0.945	0.700	9.6	25.0
	29 4-Chloroaniline	0.516	0.571	0.010	10.7	30.0
	30 Hexachlorobutadiene	0.191	0.179	0.010	6.1	30.0
	31 4-Chloro-3-methylphenol	0.336	0.342	0.200	1.8	25.0
	32 2-Methylnaphthalene	0.613	0.642	0.400	4.7	25.0
	33 1-Methylnapthalene	0.607	0.577	0.010	4.8	30.0
	34 Hexachlorocyclopentadiene	0.221	0.209	0.010	5.4	30.0
	35 2,4,6-Trichlorophenol	0.448	0.452	0.200	0.9	25.0
	36 2,4,5-Trichlorophenol	0.468	0.473	0.200	1.1	25.0
S	37 2-Fluorobiphenyl	1.289	1.278	0.700	0.9	25.0
	38 2-Chloronaphthalene	1.164	1.156	0.800	0.7	25.0
	39 2-Nitroaniline	0.470	0.455	0.010	3.1	30.0
	40 Dimethylphthalate	1.544	1.551	0.010	0.4	30.0
	41 2,6-Dinitrotoluene	0.414	0.393	0.200	5.2	25.0
	42 Acenaphthylene	1.815	1.852	0.900	2.0	25.0

Data File: /chem/aux/msb.i/b012096.b/b9537a.d
Report Date: 20-Jan-1996 11:10

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msb.i
Lab File ID: b9537a.d
Analysis Type:
Lab Sample ID:
Quant Type: ISTD

Injection Date: 20-JAN-96 10:52
Init. Calibration Date(s): JAN/12/96 JAN/12/96
Init. Calibration Times: 16:40 19:42
Method File: /chem/aux/msb.i/b012096.b/0112996bclp.m

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
	43 3-Nitroaniline	0.437	0.408	0.010	6.7	30.0
	45 2,4-Dinitrophenol	0.159	0.122	0.010	22.9	30.0
	46 Acenaphthene	1.109	1.076	0.900	3.0	25.0
	47 4-Nitrophenol	0.156	0.135	0.010	13.8	30.0
	48 2,4-Dinitrotoluene	0.557	0.524	0.200	5.9	25.0
	49 Dibenzofuran	1.595	1.659	0.800	4.0	25.0
	50 Diethylphthalate	1.546	1.537	0.010	0.6	30.0
	51 4-Chlorophenyl-phenylether	0.659	0.674	0.400	2.3	25.0
	52 Fluorene	1.186	1.195	0.900	0.8	25.0
	53 4-Nitroaniline	0.359	0.320	0.010	11.0	30.0
	54 4,6-Dinitro-2-methylphenol	0.158	0.162	0.010	2.1	30.0
	55 N-Nitrosodiphenylamine	0.587	0.583	0.010	0.6	30.0
S	56 2,4,6-Tribromophenol	0.247	0.242	0.010	2.0	30.0
	57 4-Bromophenyl-phenylether	0.245	0.276	0.100	12.8	25.0
	58 Hexachlorobenzene	0.336	0.337	0.100	0.3	25.0
	59 Pentachlorophenol	0.159	0.146	0.050	8.3	25.0
	61 Phenanthrene	1.070	1.086	0.700	1.4	25.0
	62 Anthracene	1.062	1.127	0.700	6.1	25.0
	63 Carbazole	1.023	1.005	0.010	1.8	30.0
	64 Di-n-butylphthalate	1.497	1.644	0.010	9.8	30.0
	65 Fluoranthene	1.136	1.147	0.600	1.0	25.0
	66 Benzidine	0.436	0.500	0.010	14.6	30.0
	67 Pyrene	1.435	1.505	0.600	4.9	25.0
S	68 Terphenyl-d14	0.965	1.040	0.500	7.8	25.0
	69 Butylbenzylphthalate	0.941	0.892	0.010	5.3	30.0
	70 bis(2-Ethylhexyl)phthalate	1.277	1.091	0.010	14.6	30.0
	71 3,3'-Dichlorobenzidine	0.521	0.461	0.010	11.6	30.0
	72 Benzo(a)anthracene	1.231	1.196	0.800	2.8	25.0
	74 Chrysene	1.176	1.149	0.700	2.3	25.0
	75 Di-n-octylphthalate	2.226	2.194	0.010	1.4	30.0
	76 Benzo(b)fluoranthene	1.306	1.156	0.700	11.5	25.0
	77 Benzo(k)fluoranthene	1.201	1.314	0.700	9.4	25.0
	78 Benzo(a)pyrene	1.115	1.069	0.700	4.1	25.0
	80 Dibenzo(a,h)anthracene	0.894	0.821	0.400	8.2	25.0
	81 Indeno(1,2,3-cd)pyrene	1.038	1.016	0.500	2.1	25.0
	82 Benzo(g,h,i)perylene	0.822	0.816	0.500	0.7	25.0

Data File: /chem/aux/msb.i/b012296.b/b9555.d
Report Date: 22-Jan-1996 10:01

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

KBigelow

Instrument ID: msb.i
Lab File ID: b9555.d
Analysis Type:
Lab Sample ID:
Quant Type: ISTD

Injection Date: 22-JAN-96 09:17
Init. Calibration Date(s): JAN/12/96 JAN/12/96
Init. Calibration Times: 16:40 19:42
Method File: /chem/aux/msb.i/b012296.b/0112996bclp.m

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
	1 N-Nitrosodimethylamine	0.951	0.993	0.010	4.4	30.0
	2 Pyridine	1.760	1.629	0.010	7.5	30.0
$	3 2-Fluorophenol	1.374	1.342	0.600	2.3	25.0
$	4 Phenol-d5	1.599	1.640	0.800	2.6	25.0
	5 Phenol	1.593	1.661	0.800	4.2	25.0
	6 bis(2-Chloroethyl)ether	3.141	3.318	0.700	5.6	25.0
$	7 2-Chlorophenol-D4	1.322	1.312	0.800	0.7	25.0
	8 2-Chlorophenol	1.349	1.395	0.800	3.4	25.0
	9 1,3-Dichlorobenzene	1.483	1.428	0.600	3.7	25.0
	11 1,4-Dichlorobenzene	1.457	1.495	0.500	2.6	25.0
	12 2-Methylphenol	1.171	1.171	0.700	0.1	25.0
$	13 1,2-Dichlorobenzene-D4	0.824	0.850	0.400	3.1	25.0
	14 1,2-Dichlorobenzene	1.222	1.256	0.400	2.8	25.0
	15 2,2'-oxybis(1-Chloropropene)	2.101	2.500	0.010	19.0	30.0
	16 4-Methylphenol	1.257	1.240	0.600	1.3	25.0
	17 N-Nitroso-di-n-propylamine	1.181	1.185	0.500	0.3	25.0
	18 Hexachloroethane	0.637	0.619	0.300	2.8	25.0
$	19 Nitrobenzene-d5	0.425	0.425	0.200	0.0	25.0
	20 Nitrobenzene	0.407	0.413	0.200	1.5	25.0
	21 Isophorone	0.893	0.876	0.400	1.8	25.0
	22 2,4-Dimethylphenol	0.391	0.392	0.200	0.1	25.0
	23 2-Nitrophenol	0.244	0.252	0.100	3.0	25.0
	24 bis(2-Chloroethoxy)methane	0.538	0.528	0.300	2.0	25.0
	25 2,4-Dichlorophenol	0.323	0.334	0.200	3.4	25.0
	26 1,2,4-Trichlorobenzene	0.349	0.349	0.200	0.1	25.0
	28 Naphthalene	0.862	0.955	0.700	10.7	25.0
	29 4-Chloroaniline	0.516	0.576	0.010	11.5	30.0
	30 Hexachlorobutadiene	0.191	0.195	0.010	2.1	30.0
	31 4-Chloro-3-methylphenol	0.336	0.343	0.200	1.9	25.0
	32 2-Methylnaphthalene	0.613	0.645	0.400	5.3	25.0
	33 1-Methylnapthalene	0.607	0.583	0.010	3.9	30.0
	34 Hexachlorocyclopentadiene	0.221	0.163	0.010	26.0	30.0
	35 2,4,6-Trichlorophenol	0.448	0.426	0.200	5.0	25.0
	36 2,4,5-Trichlorophenol	0.468	0.442	0.200	5.6	25.0
$	37 2-Fluorobiphenyl	1.289	1.252	0.700	2.8	25.0
	38 2-Chloronaphthalene	1.164	1.135	0.800	2.5	25.0
	39 2-Nitroaniline	0.470	0.440	0.010	6.4	30.0
	40 Dimethylphthalate	1.544	1.531	0.010	0.9	30.0
	41 2,6-Dinitrotoluene	0.414	0.379	0.200	8.4	25.0
	42 Acenaphthylene	1.815	1.787	0.900	1.6	25.0

Data File: /chem/aux/msb.i/b012296.b/b9555.d
Report Date: 22-Jan-1996 10:01

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msb.i
Lab File ID: b9555.d
Analysis Type:
Lab Sample ID:
Quant Type: ISTD

Injection Date: 22-JAN-96 09:17
Init. Calibration Date(s): JAN/12/96 JAN/12/96
Init. Calibration Times: 16:40 19:42
Method File: /chem/aux/msb.i/b012296.b/0112996bclp.m

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
	43 3-Nitroaniline	0.437	0.373	0.010	14.7	30.0
	45 2,4-Dinitrophenol	0.159	0.102	0.010	35.7	30.0 <
	46 Acenaphthene	1.109	1.055	0.900	4.9	25.0
	47 4-Nitrophenol	0.156	0.130	0.010	16.6	30.0
	48 2,4-Dinitrotoluene	0.557	0.509	0.200	8.5	25.0
	49 Dibenzofuran	1.595	1.636	0.800	2.5	25.0
	50 Diethylphthalate	1.546	1.540	0.010	0.3	30.0
	51 4-Chlorophenyl-phenylether	0.659	0.678	0.400	2.9	25.0
	52 Fluorene	1.186	1.180	0.900	0.5	25.0
	53 4-Nitroaniline	0.359	0.300	0.010	16.6	30.0
	54 4,6-Dinitro-2-methylphenol	0.158	0.145	0.010	8.1	30.0
	55 N-Nitrosodiphenylamine	0.587	0.599	0.010	2.0	30.0
S	56 2,4,6-Tribromophenol	0.247	0.226	0.010	8.4	30.0
	57 4-Bromophenyl-phenylether	0.245	0.282	0.100	15.4	25.0
	58 Hexachlorobenzene	0.336	0.340	0.100	1.0	25.0
	59 Pentachlorophenol	0.159	0.135	0.050	15.0	25.0
	61 Phenanthrene	1.070	1.119	0.700	4.5	25.0
	62 Anthracene	1.062	1.141	0.700	7.4	25.0
	63 Carbazole	1.023	0.988	0.010	3.5	30.0
	64 Di-n-butylphthalate	1.497	1.733	0.010	16.1	30.0
	65 Fluoranthene	1.136	1.135	0.600	0.0	25.0
	66 Benzidine	0.436	0.396	0.010	9.3	30.0
	67 Pyrene	1.435	1.546	0.600	7.8	25.0
S	68 Terphenyl-d14	0.965	1.123	0.500	16.4	25.0
	69 Butylbenzylphthalate	0.941	0.930	0.010	1.2	30.0
	70 bis(2-Ethylhexyl)phthalate	1.277	1.166	0.010	8.7	30.0
	71 3,3'-Dichlorobenzidine	0.521	0.441	0.010	15.4	30.0
	72 Benzo(a)anthracene	1.231	1.259	0.800	2.3	25.0
	74 Chrysene	1.176	1.130	0.700	3.9	25.0
	75 Di-n-octylphthalate	2.226	2.574	0.010	15.6	30.0
	76 Benzo(b)fluoranthene	1.306	1.234	0.700	5.5	25.0
	77 Benzo(k)fluoranthene	1.201	1.348	0.700	12.2	25.0
	78 Benzo(a)pyrene	1.115	1.119	0.700	0.4	25.0
	80 Dibenzo(a,h)anthracene	0.894	0.760	0.400	15.0	25.0
	81 Indeno(1,2,3-cd)pyrene	1.038	0.902	0.500	13.1	25.0
	82 Benzo(g,h,i)perylene	0.822	0.673	0.500	18.1	25.0

Data File: /chem/aux/msb.i/b011296a.b/b9399.d

Date : 12-JAN-96 15:32

Client ID:

Instrument: msb.i

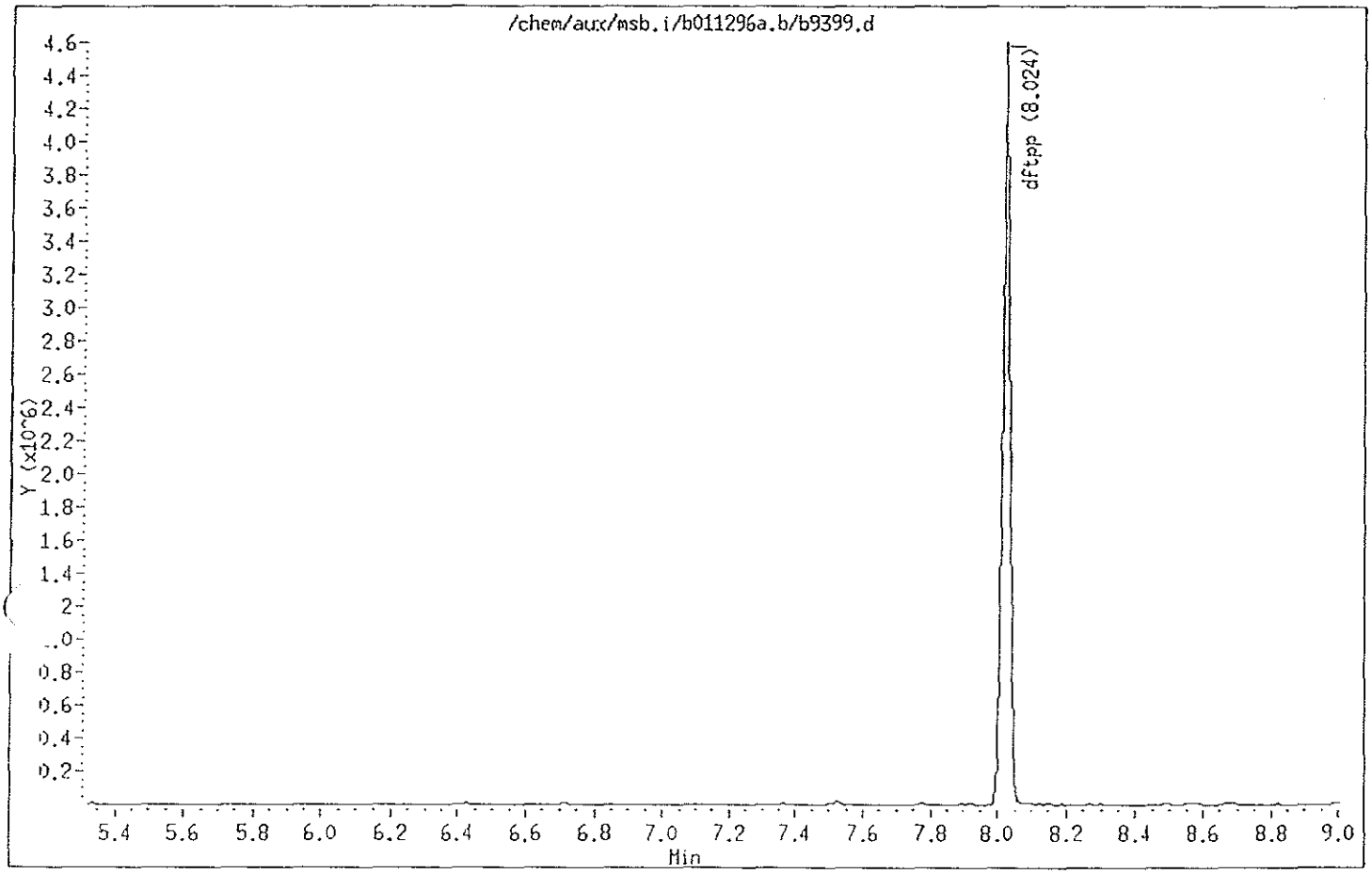
Sample Info: dftpp tune ma2697

Volume Injected (uL): 1.0

Operator: K. Bigelow

Column phase:

Column diameter: 2.00



Data File: /chem/aux/msb.i/b011296a.b/b9399.d

Date : 12-JAN-96 15:32

Client ID:

Instrument: msb.i

Sample Info: dftpp tune ma2697

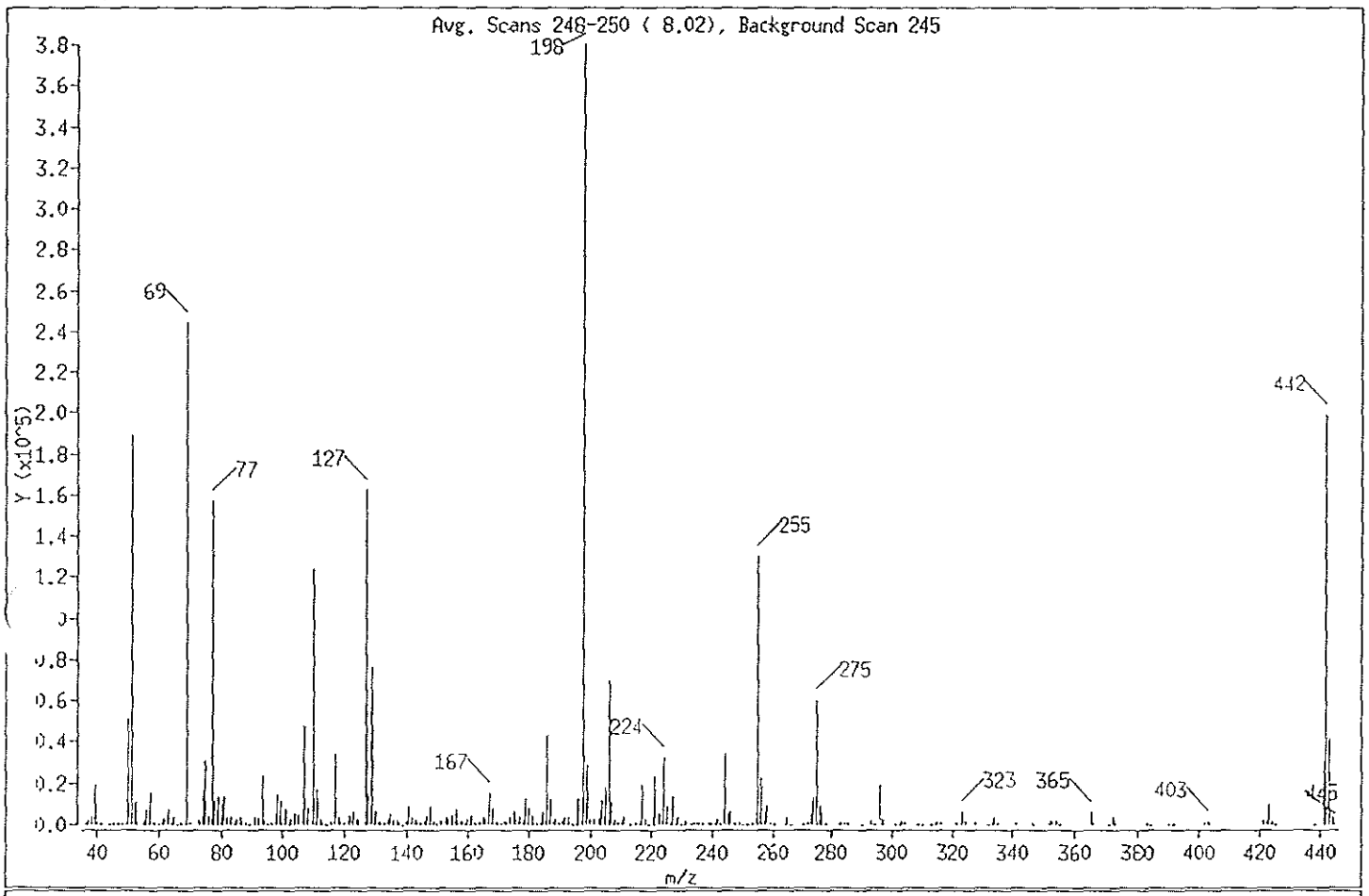
Volume Injected (uL): 1.0

Operator: K. Bigelow

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	49.59
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	64.24
70	Less than 2.00% of mass 69	0.34 (0.52)
127	25.00 - 75.00% of mass 198	42.73
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.63
275	10.00 - 30.00% of mass 198	15.94
365	Greater than 0.75% of mass 198	1.61
441	Present, but less than mass 443	7.99
442	40.00 - 110.00% of mass 198	52.47
443	15.00 - 24.00% of mass 442	10.78 (20.55)

Data File: /chem/aux/msb.i/b011296a.b/b9399.d

Date : 12-JAN-96 15:32

Client ID:

Instrument: msb.i

Sample Info: dftpp tune ma2697

Volume Injected (uL): 1.0

Operator: K. Bigelow

Column phase:

Column diameter: 2.00

Data File: b9399.d
Spectrum : Avg. Scans 248-250 (8.02), Background Scan 245
Largest m/z: 197.95
Number of peaks: 280

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	51	114.90	181	188.00	1379	273.05	5622
37.00	1360	116.00	1705	189.00	2565	274.00	13546
38.10	3823	116.95	34296	190.00	511	275.00	60600
39.10	19200	117.95	3159	191.05	1732	276.00	8854
40.00	544	118.95	621	191.95	3687	277.00	5078
41.20	1028	120.05	1005	193.05	4011	278.00	807
41.80	311	122.05	4231	194.05	1014	282.00	224
43.95	409	123.05	5854	194.95	291	283.00	670
45.15	723	123.95	2903	196.05	12741	283.95	555
46.25	156	125.05	2255	197.95	380160	284.95	1044
47.05	121	127.00	162432	199.05	29024	290.05	121
48.15	131	128.00	14190	200.00	2463	293.00	1499
49.15	73	129.00	76464	201.50	2454	293.90	337
50.05	51032	130.00	6719	203.00	2352	296.00	18528
51.05	188480	131.00	1402	204.00	11262	297.00	2682
52.10	10412	132.00	783	205.10	18208	300.90	143
53.00	482	133.00	464	206.00	70464	302.15	309
55.10	1408	134.10	2451	207.00	10514	303.05	1718
56.00	7029	134.95	5284	208.00	2370	304.05	560
57.00	14953	135.95	2422	209.00	1108	308.05	166
58.00	813	136.95	2928	210.15	1728	308.85	215
59.00	148	138.05	535	210.85	3471	309.95	148
60.10	411	139.05	353	213.05	125	313.00	140
61.05	2394	139.95	745	215.05	719	314.10	867
62.05	2600	140.95	8561	215.95	606	315.00	2010
63.05	7141	142.05	3188	216.95	18936	316.10	877
64.05	1219	142.95	2596	217.95	2487	321.05	628
65.05	3274	144.05	511	219.10	300	323.05	6404
65.95	304	145.10	641	221.00	23576	324.05	1387
67.05	491	146.10	1919	223.00	5235	326.95	1131
69.05	244224	147.00	4907	224.10	32376	327.95	583
70.05	1277	148.00	9220	225.00	9118	331.90	409
73.10	1799	149.00	2029	226.10	369	333.00	776
74.00	16528	150.00	695	227.00	13623	334.00	3577
75.00	30320	151.60	2119	227.95	2445	335.00	1138

Data File: /chem/aux/msb.i/b011296a.b/b9399.d

Date : 12-JAN-96 15:32

Client ID:

Instrument: msb.i

Sample Info: dftpp tune ma2697

Volume Injected (uL): 1.0

Operator: K. Bigelow

Column phase:

Column diameter: 2.00

Data File: b9399.d
Spectrum : Avg. Scans 248-250 (8.02), Background Scan 245
Largest m/z: 197.95
Number of peaks: 280

m/z	Y	m/z	Y	m/z	Y	m/z	Y
76.10	4576	151.70	214	228.95	3488	341.05	792
77.10	157696	153.00	3293	229.95	426	346.05	1253
78.10	11679	154.05	2391	231.05	1540	346.85	178
79.10	13890	155.05	4280	232.95	209	351.40	121
80.05	10060	156.05	6846	234.05	1256	352.00	1841
81.05	13821	157.05	2060	235.05	1122	353.00	1268
82.05	3453	157.95	1681	236.05	756	354.00	1638
83.05	3451	159.05	1171	237.00	1338	355.10	192
84.25	167	160.05	2802	238.90	767	364.95	6102
85.05	3040	161.05	4251	239.90	620	365.95	1181
86.05	4029	161.95	940	241.00	1028	371.00	435
87.05	1643	163.00	391	242.00	2443	372.10	3299
88.05	694	164.00	928	243.10	549	373.00	961
88.90	330	165.00	3347	244.10	34264	383.05	804
91.00	3954	166.00	2504	245.10	4998	383.95	276
92.00	3331	167.00	15225	246.00	5922	389.90	445
93.00	22960	168.00	8063	246.95	1246	391.10	208
94.00	1831	169.00	1619	247.75	300	392.00	254
95.10	329	169.90	951	249.05	1315	402.05	1028
96.10	1097	171.00	891	249.95	130	403.05	1818
96.90	289	172.00	1896	250.95	406	404.10	482
97.95	14753	172.95	1729	252.05	325	421.05	1416
98.95	12117	174.05	3869	253.05	910	422.10	1699
99.95	1330	175.05	6021	255.05	130416	423.00	10195
100.95	7508	175.95	2558	256.00	22656	424.00	2189
101.95	153	177.05	3334	257.00	2206	425.10	145
103.05	3087	178.05	503	258.00	8726	438.15	117
104.05	5110	179.05	12636	259.00	1245	441.10	30352
104.95	4213	180.05	8348	259.90	233	442.00	199424
107.05	47440	181.05	4304	260.90	220	443.00	41000
108.00	7838	182.00	833	264.10	174	444.00	3816
110.00	123736	183.00	480	264.95	3409	445.00	231
111.00	17440	184.10	1021	265.95	299		
112.00	2651	185.00	6276	270.25	139		
112.80	598	186.00	43112	270.95	139		

Data File: /chem/aux/msb.i/b011296a.b/b9399.d

Date : 12-JAN-96 15:32

Client ID:

Instrument: msb.i

Sample Info: dftpp tune ma2697

Volume Injected (uL): 1.0

Operator: K. Bigelow

Column phase:

Column diameter: 2.00

Data File: b9399.d
Spectrum : Avg. Scans 248-250 (8.02), Background Scan 245
Largest m/z: 197.95
Number of peaks: 280

m/z	Y	m/z	Y	m/z	Y	m/z	Y
114.10	117	187.00	12183	271.95	488		

Data File: /chem/aux/msb.i/b011996.b/b9519a.d

Date : 19-JAN-96 10:22

Client ID:

Instrument: msb.i

Sample Info: dftpp tune ma2697

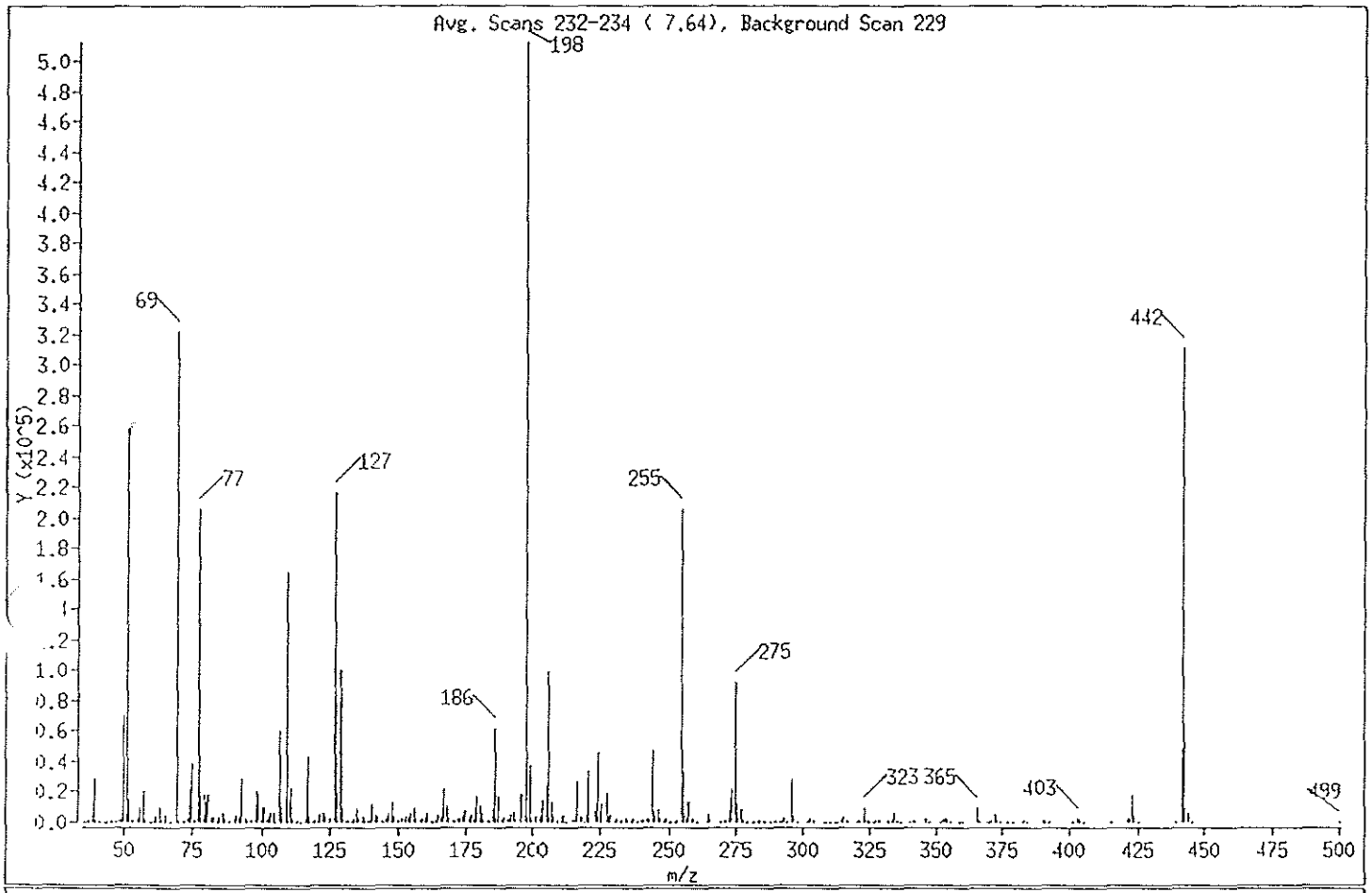
Volume Injected (uL): 1.0

Operator: K. Bigelow

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	50.35
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	62.98
70	Less than 2.00% of mass 69	0.18 (0.28)
127	25.00 - 75.00% of mass 198	42.21
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.25
275	10.00 - 30.00% of mass 198	17.86
365	Greater than 0.75% of mass 198	1.98
441	Present, but less than mass 443	9.47
442	40.00 - 110.00% of mass 198	60.68
443	15.00 - 24.00% of mass 442	12.56 (20.70)

Data File: /chem/aux/msb.i/b011996.b/b9519a.d

Date : 19-JAN-96 10:22

Client ID: Instrument: msb.i

Sample Info: dftpp tune ma2697

Volume Injected (uL): 1.0 Operator: K. Bigelow

Column phase: Column diameter: 2.00

Data File: b9519a.d
Spectrum : Avg. Scans 232-234 (7.64), Background Scan 229
Largest m/z: 197.95
Number of peaks: 312

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	534	121.95	4880	205.00	23984	297.00	4046
37.00	1614	122.95	6659	206.00	99088	298.00	301
38.10	4866	124.05	4124	207.10	12932	301.65	416
39.10	28728	125.05	2956	208.10	3411	302.05	637
40.00	1135	127.00	216192	209.05	1671	303.05	2916
41.00	698	128.00	19560	210.65	3964	304.05	1013
43.05	477	129.00	100048	211.05	4277	307.95	445
43.85	460	130.00	9152	212.15	128	309.05	141
45.05	563	131.00	1294	212.95	228	310.05	441
46.05	433	132.10	1089	215.05	1278	312.10	151
47.05	139	133.00	168	215.95	397	312.90	192
48.35	870	134.00	2866	216.95	26448	314.00	1307
49.05	1543	134.95	7988	218.05	3800	315.00	3047
50.05	70816	135.95	2900	219.10	146	316.10	1781
51.05	257920	137.05	3918	221.00	34240	317.10	290
52.10	13976	137.75	905	223.00	7175	320.15	151
53.00	658	139.05	631	224.00	45544	320.95	1118
55.10	1827	140.05	1540	225.10	12100	321.85	218
56.00	9089	140.95	12080	227.10	19896	323.05	9514
57.00	20456	142.05	5021	227.95	3571	324.05	1637
58.00	1074	142.95	3466	228.95	5035	325.05	269
59.10	556	144.05	639	229.95	617	326.35	308
60.10	163	144.90	601	231.05	2154	327.05	1726
61.05	3929	146.00	1882	231.95	383	328.05	708
62.05	3575	147.00	5748	232.95	644	332.00	650
63.05	9620	148.00	12736	233.95	1822	333.10	1070
64.05	1781	149.00	3224	235.05	1778	334.00	5713
65.05	4676	150.00	1035	235.95	1194	335.10	1692
66.55	347	151.10	2002	236.90	2003	336.10	119
67.15	401	151.70	1613	238.00	200	340.05	171
69.05	322624	153.00	3985	238.90	927	341.05	1219
70.05	916	154.05	3220	240.10	811	342.05	215
71.00	131	155.05	5980	241.10	1272	346.05	2285
72.00	235	156.05	9766	242.00	3011	346.95	282
73.10	2579	157.05	2671	243.10	818	350.90	175

Data File: /chem/aux/msb.i/b011996.b/b9519a.d

Date : 19-JAN-96 10:22

Client ID: Instrument: msb.i

Sample Info: dftpp tune ma2697

Volume Injected (uL): 1.0 Operator: K. Bigelow

Column phase: Column diameter: 2.00

Data File: b9519a.d
Spectrum : Avg. Scans 232-234 (7.64), Background Scan 229
Largest m/z: 197.95
Number of peaks: 312

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.10	21472	158.05	2144	244.10	47576	352.00	2815
75.00	38960	159.05	1957	245.10	7267	353.00	1926
76.20	1007	159.95	4027	246.00	8678	354.00	2874
77.10	206080	161.05	5977	246.95	1855	355.10	265
78.10	16360	161.85	1752	248.05	560	358.95	180
79.10	18600	162.80	362	248.95	1910	359.95	117
80.05	13139	163.90	726	250.15	171	365.05	10142
81.05	18336	164.90	4477	250.95	283	366.05	1602
82.05	3968	166.00	3955	252.05	467	367.00	135
83.05	3725	167.00	21936	253.05	1198	369.50	141
84.15	518	168.00	10846	255.05	206080	369.80	139
85.05	3705	169.00	1875	256.00	32920	371.00	659
86.05	6216	170.10	1020	257.00	2737	372.00	4797
87.05	2416	170.90	1141	258.00	13399	373.00	1177
87.95	1281	172.00	1941	258.90	2259	374.00	131
91.00	4260	172.95	2838	260.10	412	376.85	146
92.10	4088	173.95	4835	261.10	499	379.15	132
93.00	29248	174.95	7872	264.10	314	383.05	1332
94.00	2228	176.05	3346	264.95	4489	383.95	402
95.10	11	176.95	5378	265.95	870	390.10	655
96.00	1229	178.05	1410	270.05	128	391.00	260
97.95	21176	179.05	16872	271.05	659	392.10	312
99.05	17632	180.05	11185	271.85	452	401.15	174
100.05	1641	181.05	5808	272.95	7181	402.05	1879
100.95	9688	181.90	858	274.00	21776	403.05	2526
102.05	716	182.90	741	275.00	91496	404.00	1005
103.05	3753	184.00	1600	276.00	12440	405.20	121
103.95	6378	185.00	8241	277.00	7946	414.95	133
105.05	5803	186.00	61408	278.00	1431	421.15	2445
105.95	290	187.00	16480	279.10	239	422.00	2108
107.05	61144	188.10	2046	281.10	107	423.00	17848
108.00	10183	189.00	3520	282.00	394	424.00	3878
110.00	164992	190.10	633	283.10	1216	425.00	521
111.00	23464	190.95	2046	283.95	990	439.05	350
112.00	2970	191.95	4659	285.05	1550	441.10	48528

Data File: /chem/aux/msb.i/b011996.b/b9519a.d

Date : 19-JAN-96 10:22

Client ID:

Instrument: msb.i

Sample Info: dftpp tune ma2697

Volume Injected (uL): 1.0

Operator: K. Bigelow

Column phase:

Column diameter: 2.00

Data File: b9519a.d
Spectrum : Avg. Scans 232-234 (7.64), Background Scan 229
Largest m/z: 197.95
Number of peaks: 312

m/z	Y	m/z	Y	m/z	Y	m/z	Y
113.00	834	193.05	5458	286.05	285	442.00	310848
114.40	271	193.95	1480	288.05	161	443.00	64336
114.70	577	196.05	17624	289.05	172	444.10	6372
116.10	1896	197.95	512320	290.05	317	445.10	387
116.95	43448	199.05	37136	291.05	157	499.60	120
117.95	3907	200.00	2566	292.15	379		
119.05	455	201.40	3307	293.00	2081		
119.95	977	203.00	3583	294.00	510		
121.05	194	204.00	15099	296.00	27760		

Data File: /chem/aux/msb.i/b012096.b/b9536a.d

Date : 20-JAN-96 10:33

Client ID:

Instrument: msb.i

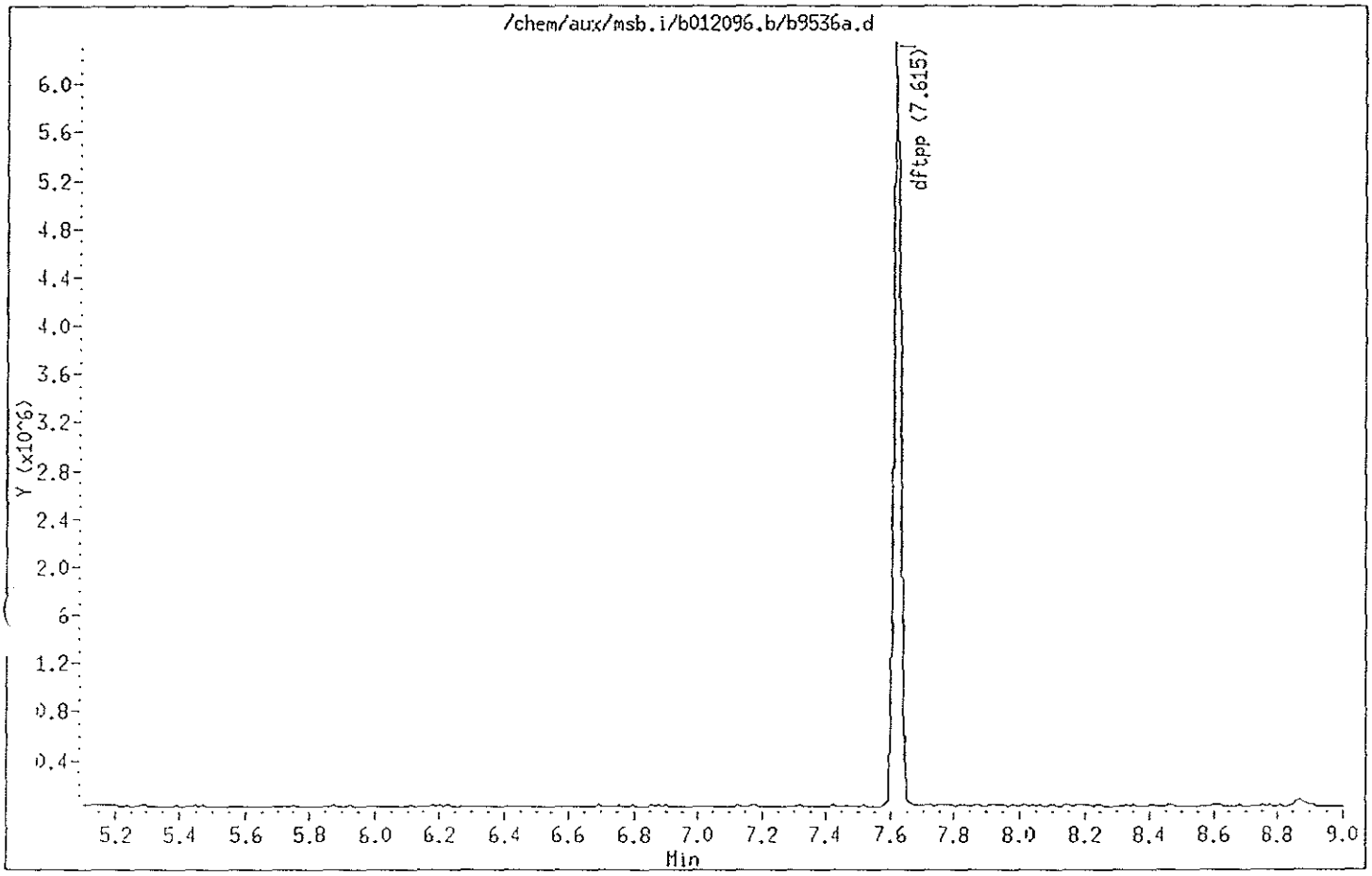
Sample Info: dftpp tune ma2697

Volume Injected (uL): 1.0

Operator: K. Bigelow

Column phase:

Column diameter: 2.00



Data File: /chem/aux/msb.i/b012096.b/b9536a.d

Date : 20-JAN-96 10:33

Client ID:

Instrument: msb.i

Sample Info: dftpp tune ma2697

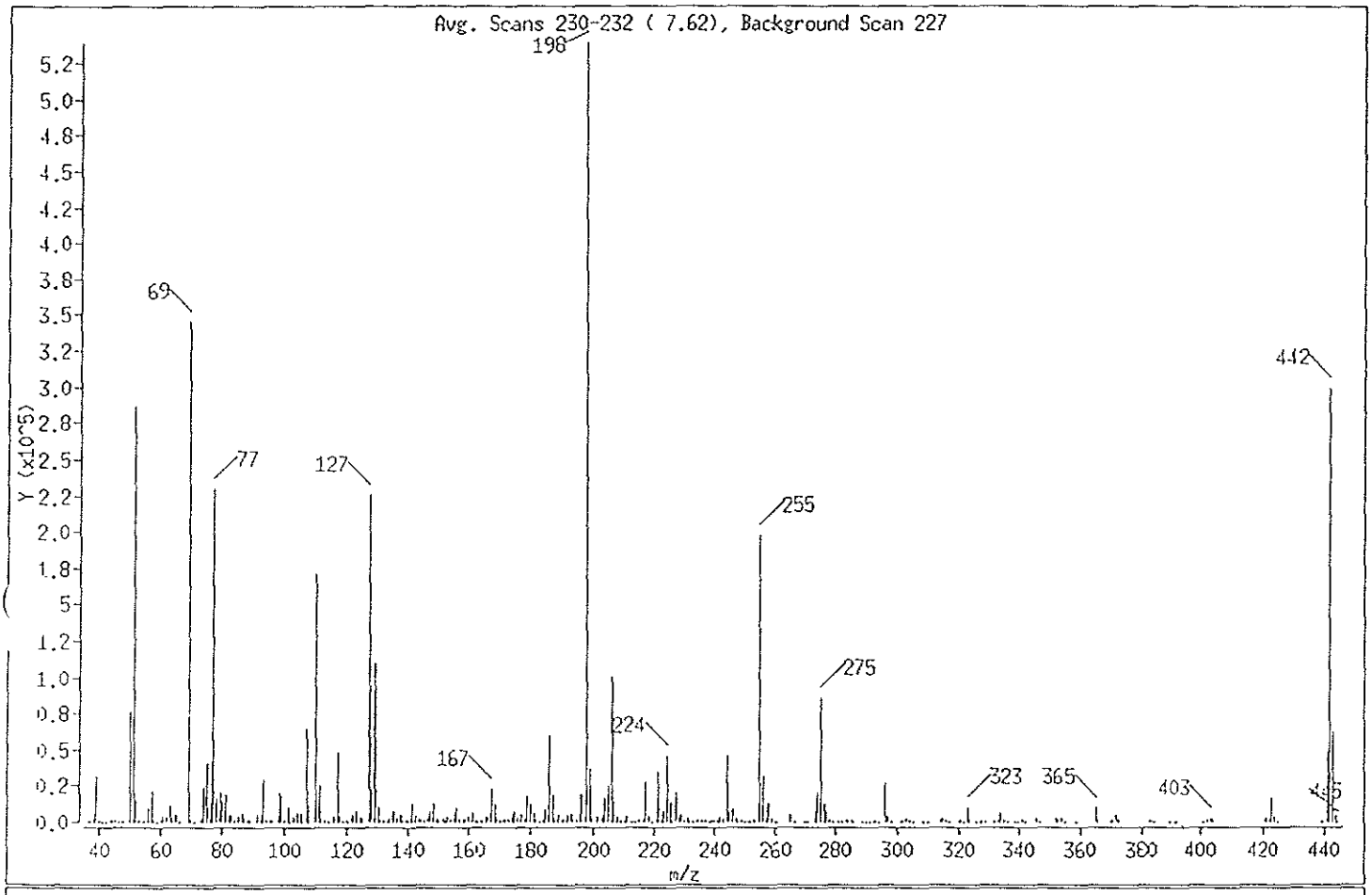
Volume Injected (uL): 1.0

Operator: K. Bigelow

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	53.23
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	64.06
70	Less than 2.00% of mass 69	0.15 (0.24)
127	25.00 - 75.00% of mass 198	41.78
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.96
275	10.00 - 30.00% of mass 198	15.80
365	Greater than 0.75% of mass 198	1.78
441	Present, but less than mass 443	8.88
442	40.00 - 110.00% of mass 198	55.63
443	15.00 - 24.00% of mass 442	11.55 (20.77)

Data File: /chem/aux/msb.i/b012096.b/b9536a.d
Date : 20-JAN-96 10:33
Client ID:
Instrument: msb.i
Sample Info: dftpp tune ma2697
Volume Injected (uL): 1.0
Operator: K. Bigelow
Column phase:
Column diameter: 2.00

Data File: b9536a.d
Spectrum : Avg. Scans 230-232 (7.62), Background Scan 227
Largest m/z: 197.95
Number of peaks: 301

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.30	190	122.05	5338	199.90	2728	288.95	594
37.00	1541	123.05	7615	201.50	3617	290.05	483
38.10	5238	124.05	3708	203.00	3497	290.95	266
39.10	32384	125.05	3781	204.00	16273	292.25	548
40.10	1270	127.00	225280	205.00	25960	293.00	1698
41.20	386	128.00	21304	206.00	101112	294.10	388
42.30	373	129.00	109592	207.10	14170	296.00	26720
44.05	1155	130.00	10002	208.00	4055	297.00	3714
45.15	816	131.00	1882	209.00	1246	298.00	344
46.65	129	132.10	1290	210.65	532	301.10	516
47.85	477	133.00	576	210.85	4331	301.95	793
50.05	76264	134.00	3180	212.95	290	303.05	3071
51.05	286976	134.95	8044	213.85	197	304.05	730
52.00	15793	135.95	3212	214.95	1498	305.25	128
53.10	912	137.65	5106	216.15	1461	308.05	537
54.00	148	138.05	650	216.95	28232	309.05	350
55.10	1830	138.95	753	218.05	3996	310.05	123
56.00	9756	139.95	1145	219.00	575	314.00	1112
57.00	21104	141.05	12828	221.00	34624	315.00	2413
58.10	743	142.05	5103	222.00	523	316.00	1573
59.10	600	143.05	2738	223.10	7034	317.00	135
60.10	421	144.15	825	224.00	46080	320.10	142
61.05	4158	145.00	905	225.10	13669	321.05	901
62.05	4306	146.00	2723	226.00	247	321.85	209
63.05	10902	147.00	7064	227.00	20120	323.05	9707
64.05	1997	148.00	13030	227.95	3785	323.95	1709
65.05	5185	149.00	2884	228.95	4805	326.05	297
65.95	632	150.00	1075	229.95	1249	327.05	1484
69.05	345408	151.60	2406	231.05	2475	328.05	727
69.95	823	152.30	161	231.95	137	329.05	130
71.10	152	153.00	4301	233.15	429	332.10	558
73.00	1509	153.95	2944	233.95	1806	333.00	1228
74.00	24680	154.95	6364	234.95	1844	334.10	6092
75.00	41048	156.05	9573	236.05	1111	335.00	1680
76.10	14448	157.05	2584	237.00	1318	336.00	264

Data File: /chem/aux/msb.i/b012096.b/b9536a.d

Date : 20-JAN-96 10:33

Client ID:

Instrument: msb.i

Sample Info: dftpp tune ma2697

Volume Injected (uL): 1.0

Operator: K. Bigelow

Column phase:

Column diameter: 2.00

Data File: b9536a.d
Spectrum : Avg. Scans 230-232 (7.62), Background Scan 227
Largest m/z: 197.95
Number of peaks: 301

m/z	Y	m/z	Y	m/z	Y	m/z	Y
77.10	229376	157.95	2415	238.00	355	338.75	124
78.10	16392	158.95	2107	239.00	912	339.85	137
79.00	20904	160.05	4257	240.00	700	341.05	988
80.05	14423	161.05	5811	241.00	1266	342.05	284
81.05	18952	162.15	1708	242.00	3196	345.65	122
82.05	5244	162.90	361	243.10	2646	345.95	2145
83.05	4850	164.20	1176	244.10	46472	347.05	227
84.05	677	165.00	4223	245.10	6801	352.00	2611
85.05	4133	166.10	4173	246.00	8501	353.00	1895
86.05	5888	167.00	22568	246.95	1991	354.10	2418
87.05	2942	168.00	12219	247.95	520	355.00	594
88.05	1270	169.10	2357	249.05	1751	358.75	269
88.90	734	170.10	958	249.85	407	365.05	9622
91.00	5044	171.00	1102	251.05	439	366.05	1508
92.10	5459	172.00	2396	251.95	531	370.10	319
93.00	29864	173.05	2559	253.05	1289	370.90	726
94.00	1711	173.95	4893	255.05	197696	372.00	5011
95.00	676	175.05	8158	256.00	32208	373.10	1300
96.10	1394	176.05	3461	257.00	2929	383.05	1394
98.05	20360	176.95	4904	258.00	12791	384.05	322
99.05	18472	178.05	1631	259.00	2395	389.90	558
100.05	1546	178.95	17936	260.00	430	391.00	391
101.05	10317	180.05	12333	260.90	464	392.00	384
101.95	409	181.05	5890	264.95	5068	400.95	169
103.05	3935	182.10	897	265.95	613	402.05	1697
104.05	6018	183.00	490	267.05	152	403.05	2412
105.05	5980	184.00	1684	269.95	313	404.00	829
105.95	398	185.10	9070	270.85	146	421.05	2145
107.05	64512	186.00	59488	273.05	7768	422.00	1408
108.00	11553	187.00	18520	274.00	20968	423.00	17104
110.00	171072	188.10	1941	275.00	85200	424.00	4106
111.00	25008	189.00	4509	276.00	13165	425.00	483
112.00	3155	190.00	667	277.00	8227	439.35	152
113.00	1056	191.05	2543	278.00	1163	441.10	47880
114.20	260	192.05	5284	279.10	429	442.00	299968

Data File: /chem/aux/msb.i/b012096.b/b9536a.d

Date : 20-JAN-96 10:33

Client ID:

Instrument: msb.i

Sample Info: dftpp tune ma2697

Volume Injected (uL): 1.0

Operator: K. Bigelow

Column phase:

Column diameter: 2.00

Data File: b9536a.d
Spectrum : Avg. Scans 230-232 (7.62), Background Scan 227
Largest m/z: 197.95
Number of peaks: 301

m/z	Y	m/z	Y	m/z	Y	m/z	Y
116.10	3197	192.95	5082	281.10	331	443.00	62296
116.95	48744	194.05	1125	282.20	384	444.00	5448
117.95	4034	195.05	994	283.10	1146	445.00	208
119.05	560	196.05	18832	283.95	673		
120.05	997	197.95	539264	285.05	1424		
120.95	621	198.95	37528	286.05	235		

Data File: /chem/aux/msb.i/b012296.b/b9554.d

Date : 22-JAN-96 08:58

Client ID:

Instrument: msb.i

Sample Info: dftpp tune ma2697

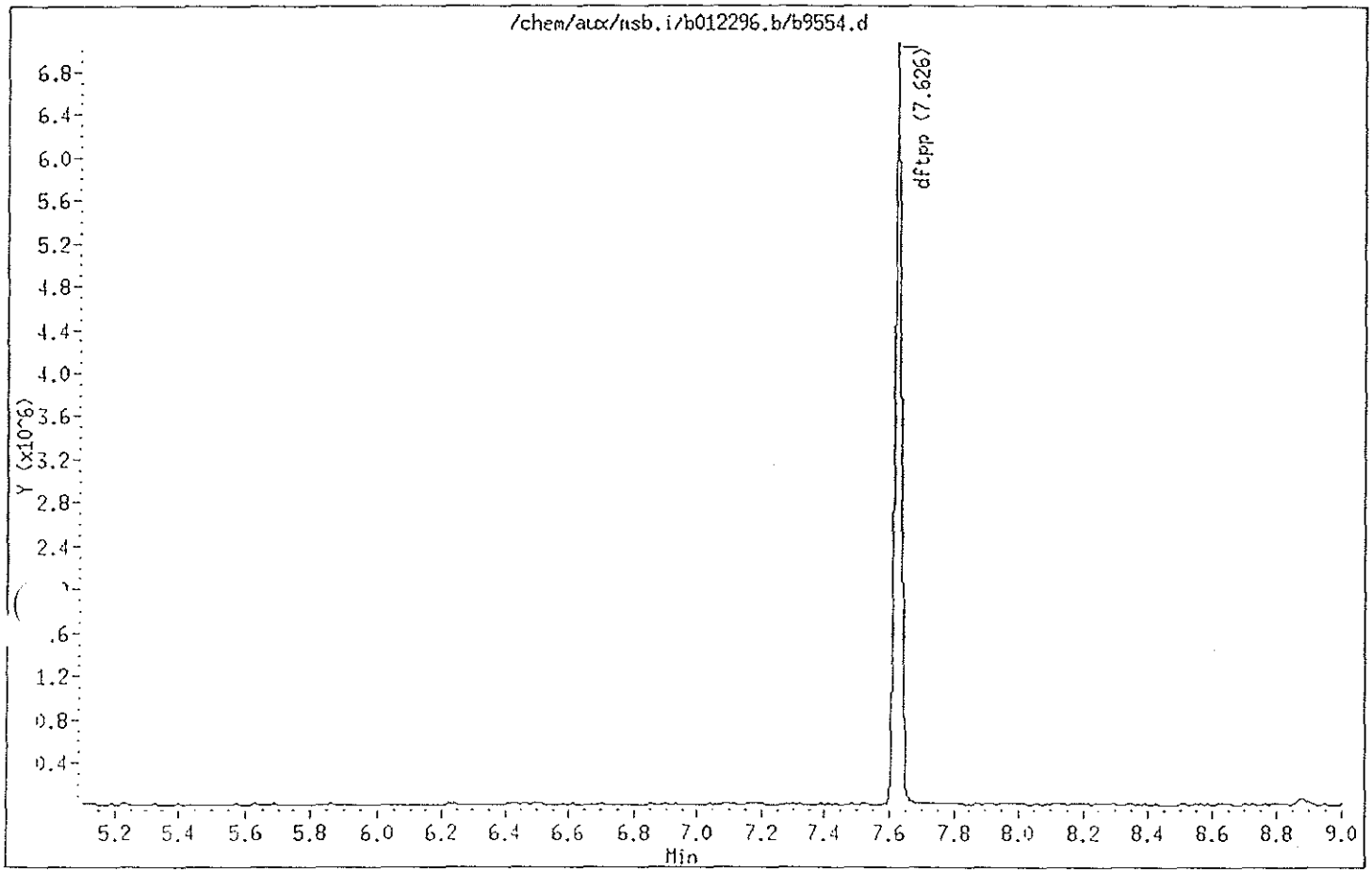
Volume Injected (uL): 1.0

Operator: K. Bigelow

Column phase:

Column diameter: 2.00

clp. KBigelow



Data File: /chem/aux/msb.i/b012296.b/b9554.d

Date : 22-JAN-96 08:58

Client ID:

Instrument: msb.i

Sample Info: dftpp tune ma2697

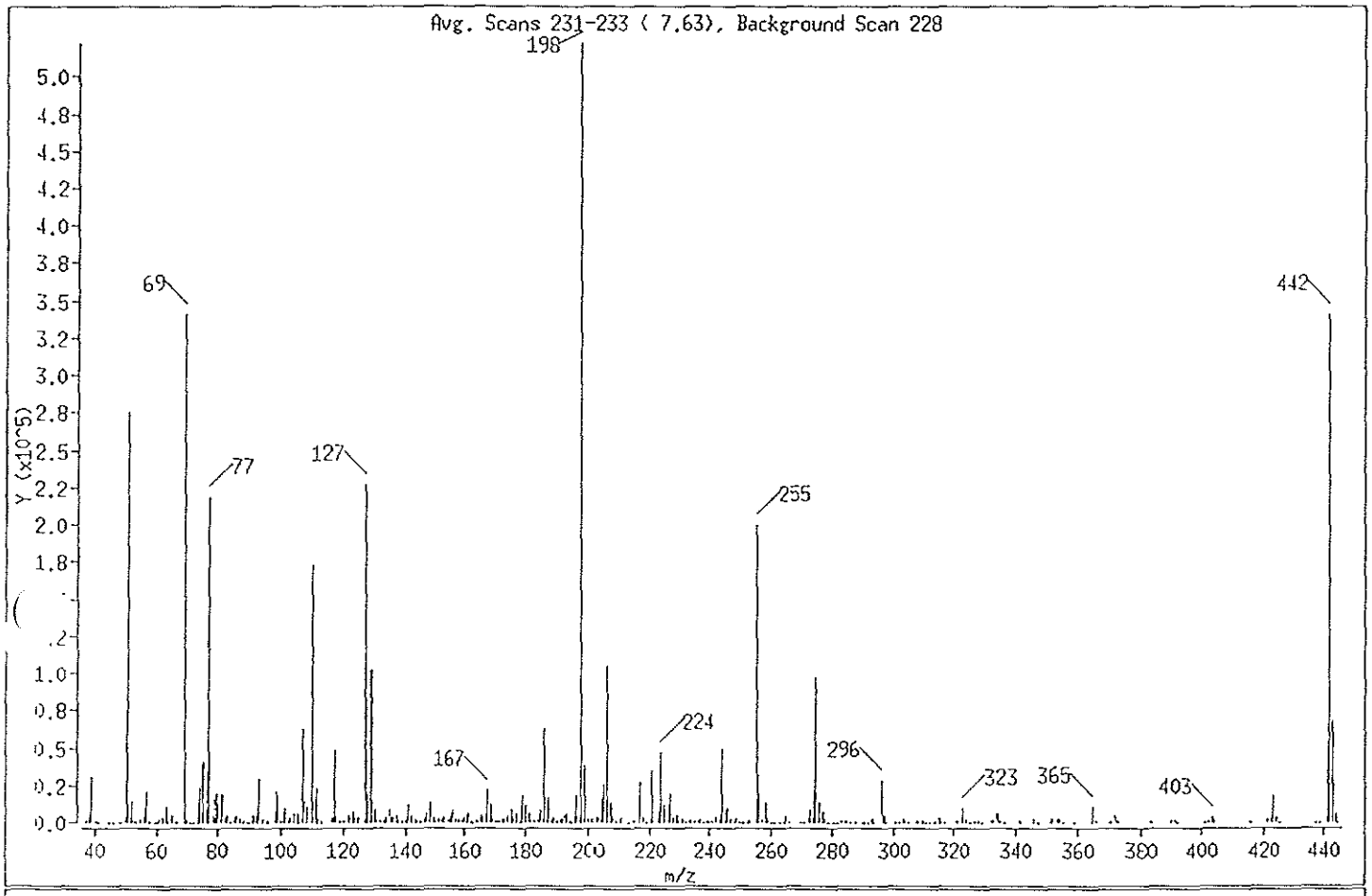
Volume Injected (uL): 1.0

Operator: K. Bigelow

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	52.65
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	65.33
70	Less than 2.00% of mass 69	0.20 (0.31)
127	25.00 - 75.00% of mass 198	43.51
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.25
275	10.00 - 30.00% of mass 198	18.79
365	Greater than 0.75% of mass 198	2.06
441	Present, but less than mass 443	10.38
442	40.00 - 110.00% of mass 198	65.23
443	15.00 - 24.00% of mass 442	13.09 (20.06)

Data File: /chem/aux/msb.i/b012296.b/b9554.d

Date : 22-JAN-96 08:58

Client ID:

Instrument: msb.i

Sample Info: dftpp tune ma2697

Volume Injected (uL): 1.0

Operator: K. Bigelow

Column phase:

Column diameter: 2.00

Data File: b9554.d
Spectrum : Avg. Scans 231-233 (7.63), Background Scan 228
Largest m/z: 197.95
Number of peaks: 301

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1705	122.95	7339	201.50	3056	293.00	2282
38.10	5021	123.95	3874	203.00	3494	294.00	516
39.10	30448	125.05	3330	204.00	15922	296.00	28416
40.10	1036	127.00	227392	205.00	25792	297.00	4591
41.20	410	128.00	20376	206.00	105136	298.00	125
44.05	49	129.00	102816	207.00	14024	301.10	211
45.05	166	130.00	8717	208.00	4273	302.05	324
46.05	122	131.00	1567	209.05	1337	303.05	2844
48.15	412	132.10	1071	210.05	2213	303.95	732
50.05	75752	133.00	1011	210.95	4252	305.05	175
51.05	275136	134.00	3252	213.05	341	307.85	646
52.00	14672	134.95	8661	215.05	1267	309.45	655
53.10	618	135.95	3288	216.95	26960	309.95	461
53.90	414	137.05	4603	218.05	4240	311.00	146
55.00	2110	137.95	1156	219.10	491	312.10	122
56.00	10299	139.05	657	221.00	33984	313.00	193
57.00	20944	140.05	927	223.00	7378	313.90	1415
58.10	1217	140.95	12914	224.00	46344	315.00	3115
58.90	434	142.05	5210	225.10	12474	315.90	1789
60.00	283	143.05	2973	227.00	20120	317.00	481
61.05	2774	143.95	956	227.95	3633	321.05	838
62.05	3855	145.00	802	228.95	5389	323.05	10121
63.05	10953	146.00	2671	229.85	848	324.05	1882
64.05	1425	147.00	6378	231.05	2262	324.85	124
65.05	5271	148.00	13052	231.95	566	325.95	229
66.15	484	149.00	3509	233.25	697	326.95	1766
66.75	67	150.00	1336	233.95	1632	327.85	844
69.05	341440	151.10	2814	235.05	1413	329.05	132
69.95	1060	152.10	2537	236.05	1436	332.00	693
71.10	384	153.00	4036	236.90	2212	333.00	1145
72.00	368	154.05	2795	238.00	173	334.00	6200
73.10	391	155.05	6785	239.00	937	335.10	1726
74.00	23312	155.95	8902	239.90	745	336.10	160
75.00	41208	157.05	2591	241.00	1481	340.95	1007
76.20	9784	157.95	2949	242.00	3255	341.95	424

Data File: /chem/aux/msb.i/b012296.b/b9554.d

Date : 22-JAN-96 08:58

Client ID:

Instrument: msb.i

Sample Info: dftpp tune ma2697

Volume Injected (uL): 1.0

Operator: K. Bigelow

Column phase:

Column diameter: 2.00

Data File: b9554.d
Spectrum : Avg. Scans 231-233 (7.63), Background Scan 228
Largest m/z: 197.95
Number of peaks: 301

m/z	Y	m/z	Y	m/z	Y	m/z	Y
77.10	218816	159.05	1944	243.10	3087	345.95	2165
78.10	16246	160.05	3586	244.00	49808	346.95	285
79.10	19152	161.05	5614	245.10	7258	347.90	135
80.05	13708	161.95	1834	246.00	9387	351.10	339
80.95	19112	163.00	525	246.95	2219	352.00	2794
82.05	3698	164.00	1243	247.95	416	353.00	2042
83.05	4486	165.00	5473	248.95	2090	354.00	2776
84.05	523	166.00	3823	250.15	435	355.10	353
85.05	3675	167.00	22352	251.05	544	358.95	352
86.05	5150	168.00	12344	252.05	603	364.95	10763
87.05	2746	169.00	1858	253.05	1241	365.95	1506
88.15	1134	170.00	761	254.95	200064	370.00	223
89.50	617	171.00	1391	256.00	32304	371.00	966
90.00	152	172.00	2236	257.00	2986	372.00	5211
91.00	5345	173.05	2441	258.00	14021	373.00	1408
92.00	5167	174.05	4946	259.00	2452	383.05	1466
93.00	30008	175.05	8309	259.90	135	383.95	491
94.00	2488	175.95	3913	261.10	557	390.00	692
95.00	725	176.95	5921	262.80	122	391.10	638
96.10	818	178.15	420	264.10	590	392.00	605
97.95	21040	178.95	18208	264.95	5219	401.05	432
98.95	18256	180.05	12213	265.95	289	402.05	1744
100.05	1330	181.05	6186	270.05	129	403.05	3152
101.05	10192	181.90	702	271.05	493	404.00	1011
102.15	918	183.10	957	273.05	8266	415.05	286
103.05	4150	183.90	1636	274.00	21328	415.75	147
103.95	6261	185.00	8308	275.00	98216	421.05	2883
105.05	5617	186.00	62848	276.00	13636	422.10	2439
105.85	411	187.00	17016	277.00	7747	423.00	18976
107.05	62776	188.00	2034	278.00	1881	424.00	4042
108.00	10955	189.00	4273	279.00	170	425.10	465
110.00	172480	190.10	926	280.90	172	437.95	137
111.00	23936	191.05	2360	282.00	212	438.85	121
112.00	3015	191.95	5335	283.10	1326	441.10	54224
112.80	917	193.05	5729	284.05	942	442.00	340928

Data File: /chem/aux/msb.i/b012296.b/b9554.d

Date : 22-JAN-96 08:58

Client ID:

Instrument: msb.i

Sample Info: dftpp tune ma2697

Volume Injected (uL): 1.0

Operator: K. Bigelow

Column phase:

Column diameter: 2.00

Data File: b9554.d
Spectrum : Avg, Scans 231-233 (7.63), Background Scan 228
Largest m/z: 197.95
Number of peaks: 301

m/z	Y	m/z	Y	m/z	Y	m/z	Y
116.10	3430	194.15	1151	284.95	1655	443.00	68400
116.95	47672	195.05	247	285.95	155	444.00	6626
117.95	3899	195.95	18480	288.05	194	445.00	499
119.05	909	197.95	522624	290.05	462		
120.05	1019	198.95	37912	290.95	221		
121.95	5509	200.00	2396	292.05	323		

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0429 EPA SAMPLE NO.

SBLK01 A

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: N2C60119C

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B9521

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: _____ decanted: (Y/N) N Date Extracted: 01/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

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

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

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0430 EPA SAMPLE NO.

SBLK01 A

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: N2C60119C

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B9521

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: _____ decanted: (Y/N) N Date Extracted: 01/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

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

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

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0431 EPA SAMPLE NO.

SBLK01 A

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: N2C60119C

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B9521

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: _____ decanted: (Y/N) N Date Extracted: 01/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

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

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-Pentanone, 4-hydroxy-4-met	5.88	2600	JNA

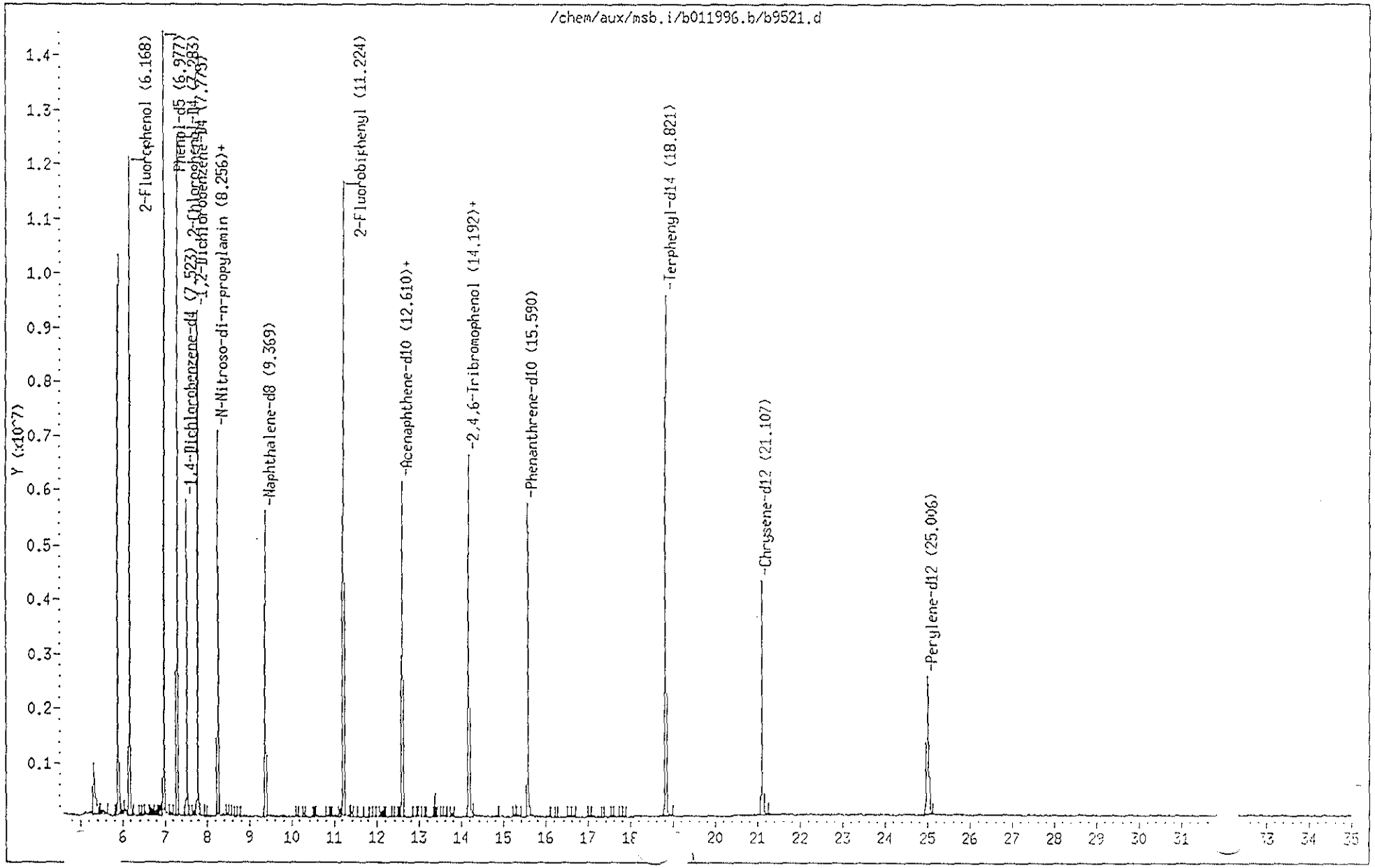
0432

Data File: /chem/aux/msb.i/b011996.b/b9521.d
Date : 19-JAN-96 11:31
Client ID:
Sample Info: method blank

Column phase: J&W DB-5

Instrument: msb.i

Operator: K. Bigelow
Column diameter: 0.25



Data File: /chem/aux/msb.i/b011996.b/b9521.d
Report Date: 20-Jan-1996 09:15

OHM Analytical Division

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/aux/msb.i/b011996.b/b9521.d
Lab Smp Id:
Inj Date : 19-JAN-96 11:31
Operator : K. Bigelow Inst ID: msb.i
Smp Info : method blank
Misc Info : n2c60119c,n2c60119,m1,1,1
Comment :
Method : /chem/aux/msb.i/b011996.b/0112996bclp.m
Meth Date : 20-Jan-1996 09:14 kathryn Quant Type: ISTD
Cal Date : 19-JAN-96 10:44 Cal File: b9520.d
Als bottle: 3
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

K Bigelow

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)	
	3	2-Fluorophenol	112.00	6.168	6.157	(0.823)	5514400	109	109(R)	
S	4	Phenol-d5	99.00	6.977	6.976	(0.927)	6692014	108	108(R)	
S	7	2-Chlorophenol-D4	132.00	7.283	7.283	(0.963)	5430479	112	112(R)	
•	10	1,4-Dichlorobenzene-d4	152.00	7.523	7.524	(1.000)	1519939	40.0		
S	13	1,2-Dichlorobenzene-D4	152.00	7.775	7.787	(1.033)	2583361	80.3	80.3(R)	
	17	N-Nitroso-di-n-propylamine	70.00	8.256	7.995	(1.097)	620528	14.3	~~14.3~~(Q)	ND, Rt, MS
S	19	Nitrobenzene-d5	82.00	8.256	8.269	(0.881)	3679352	74.9	74.9(R)	
•	27	Naphthalene-d8	136.00	9.369	9.386	(1.000)	4723454	40.0		
S	37	2-Fluorobiphenyl	172.00	11.224	11.228	(0.890)	6773361	83.4	83.4(R)	
•	44	Acenaphthene-d10	164.00	12.610	12.620	(1.000)	2523864	40.0		
	48	2,4-Dinitrotoluene	165.00	12.610	12.949	(1.000)	346485	10.4	~~10.4~~(Q)	ND, Rt, MS
S	56	2,4,6-Tribromophenol	330.00	14.192	14.200	(1.125)	1611989	114	114(R)	
	57	4-Bromophenyl-phenylether	248.00	14.192	14.595	(0.910)	120075	4.69	4.69(Q)	ND, Rt, MS
•	60	Phenanthrene-d10	188.00	15.590	15.604	(1.000)	3787160	40.0		
S	68	Terphenyl-d14	244.00	18.821	18.826	(0.892)	6548157	82.4	82.4(R)	
•	73	Chrysene-d12	240.00	21.107	21.131	(1.000)	2983251	40.0		
•	79	Perylene-d12	264.00	25.006	25.033	(1.000)	2975837	40.0		

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: /chem/aux/msb.i/b011996.b/b9521.d

Date : 19-JAN-96 11:31

Client ID:

Instrument: msb.i

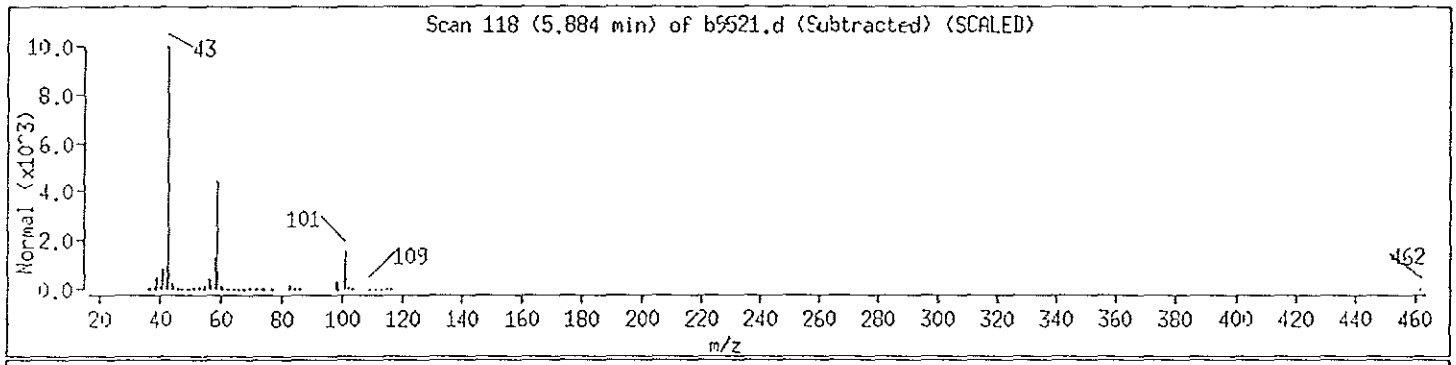
Sample Info: method blank

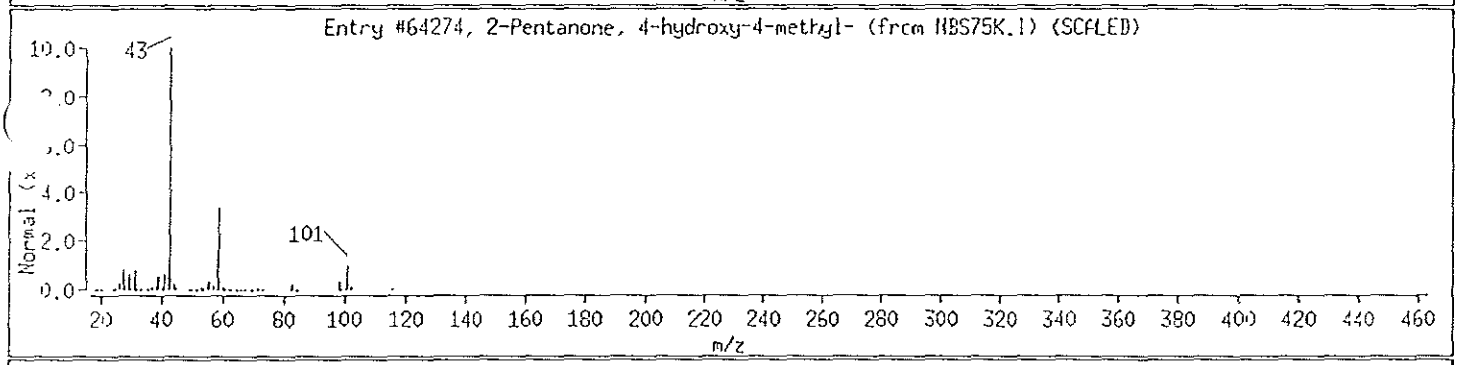
Operator: K. Bigelow

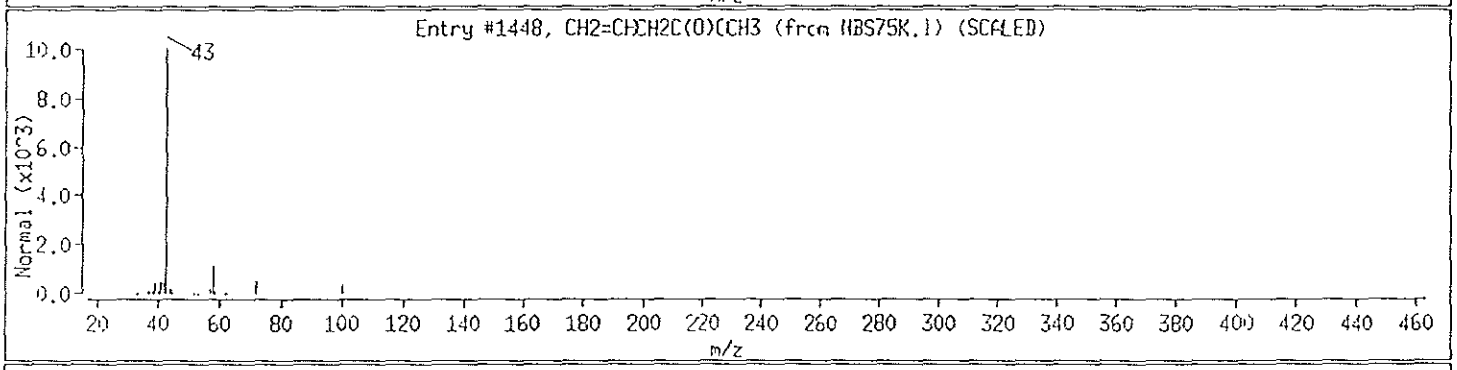
Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NBS75K.1	64274	59	C6H12O2	116
CH2=CHCH2C(O)OCH3	3724-55-8	NBS75K.1	1448	12	C5H8O2	100







1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0435 EPA SAMPLE NO.

SBLK01 B

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418 SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) WATER Lab Sample ID: N1C60123C

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B9542

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: _____ decanted: (Y/N) N Date Extracted: 01/19/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/20/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0436 EPA SAMPLE NO.

SBLK01B

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418 SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) WATER Lab Sample ID: N1C60123C

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B9542

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: _____ decanted: (Y/N) N Date Extracted: 01/19/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/20/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
101-55-3	4-Bromophenyl-phenylether	10	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0437 EPA SAMPLE NO.

SBLK01B

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) WATER Lab Sample ID: N1C60123C

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B9542

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: _____ decanted: (Y/N) N Date Extracted: 01/19/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/20/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

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

Number TICs found: 2

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

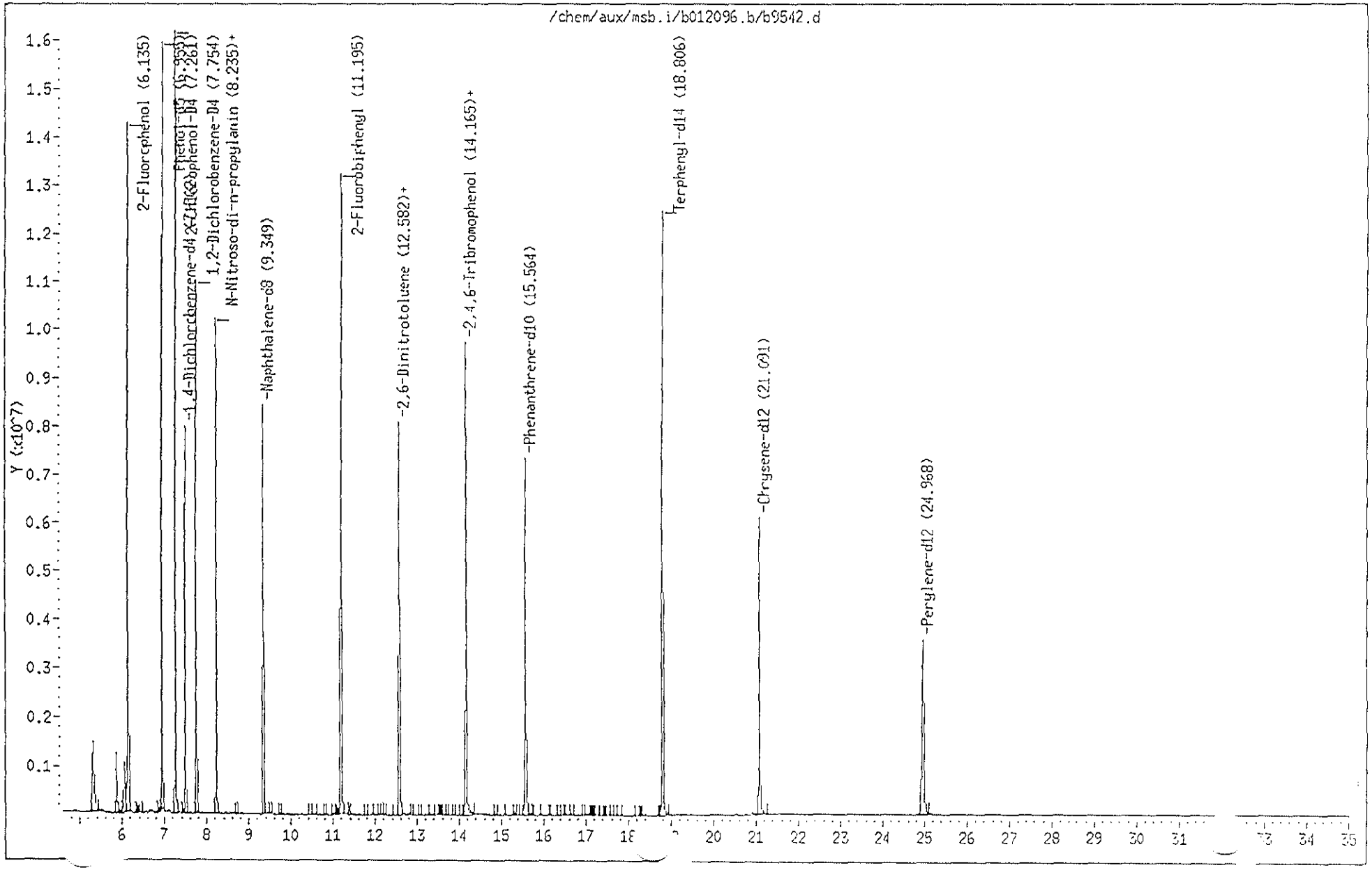
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-Pentanone, 4-hydroxy-4-met	5.86	7	JNA
2. 2313-65-7	2-Hexanol, 3-methyl-	6.06	9	JN

Data File: /chem/aux/msb.i/b012096.b/b9542.d
Date : 20-JAN-96 14:47
Client ID:
Sample Info: method blank

Instrument: msb.i

Operator: K. Bigelow
Column diameter: 0.25

Column phase: J&W DB-5



Data File: /chem/aux/msb.i/b012096.b/b9542.d
Report Date: 22-Jan-1996 07:10

OHM Analytical Division

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/aux/msb.i/b012096.b/b9542.d
Lab Smp Id:
Inj Date : 20-JAN-96 14:47
Operator : K. Bigelow Inst ID: msb.i
Smp Info : method blank
Misc Info : n1c60123c,n1c60123,m1,1,1
Comment :
Method : /chem/aux/msb.i/b012096.b/0112996bclp.m
Meth Date : 22-Jan-1996 07:08 kathryn Quant Type: ISTD
Cal Date : 20-JAN-96 10:52 Cal File: b9537a.d
Als bottle: 7
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

KBigelow

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
	3	2-Fluorophenol	112.00	6.146	6.126	(0.819)	7145537	107	107(R)
S	4	Phenol-d5	99.00	6.955	6.946	(0.927)	7515746	92.3	92.3(R)
S	7	2-Chlorophenol-D4	132.00	7.261	7.253	(0.968)	7143437	112	112(R)
•	10	1,4-Dichlorobenzene-d4	152.00	7.502	7.504	(1.000)	2022831	40.0	
S	13	1,2-Dichlorobenzene-D4	152.00	7.754	7.756	(1.034)	3008425	70.5	70.5(R)
	17	N-Nitroso-di-n-propylamine	70.00	8.235	7.965	(1.063)	855187	14.5	~~14.5~~(Q) ND, Rt, MS
S	19	Nitrobenzene-d5	82.00	8.235	8.239	(0.881)	5148353	74.8	74.8(R)
•	27	Naphthalene-d8	136.00	9.349	9.346	(1.000)	6475164	40.0	
S	37	2-Fluorobiphenyl	172.00	11.195	11.200	(0.890)	8279557	76.8	76.8(R)
	41	2,6-Dinitrotoluene	165.00	12.582	12.133	(1.000)	420423	12.7	12.7(Q) ND, Rt, MS
•	44	Acenaphthene-d10	164.00	12.582	12.583	(1.000)	3375472	40.0	
	48	2,4-Dinitrotoluene	165.00	12.582	12.912	(1.000)	466154	10.5	~~10.5~~(Q) ND, Rt, MS
S	56	2,4,6-Tribromophenol	330.00	14.165	14.164	(1.126)	2351218	115	115(R)
	57	4-Bromophenyl-phenylether	248.00	14.165	14.559	(0.910)	173408	4.82	4.82(Q) ND, Rt, MS
•	60	Phenanthrene-d10	188.00	15.564	15.569	(1.000)	5216496	40.0	
S	68	Terphenyl-d14	244.00	18.806	18.794	(0.832)	8300854	82.1	82.1(R)
•	73	Chrysene-d12	240.00	21.091	21.089	(1.000)	3890230	40.0	
•	79	Perylene-d12	264.00	24.968	24.974	(1.000)	4217547	40.0	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: /chem/aux/msb.i/b012096.b/b9542.d

Date : 20-JAN-96 14:47

Client ID:

Instrument: msb.i

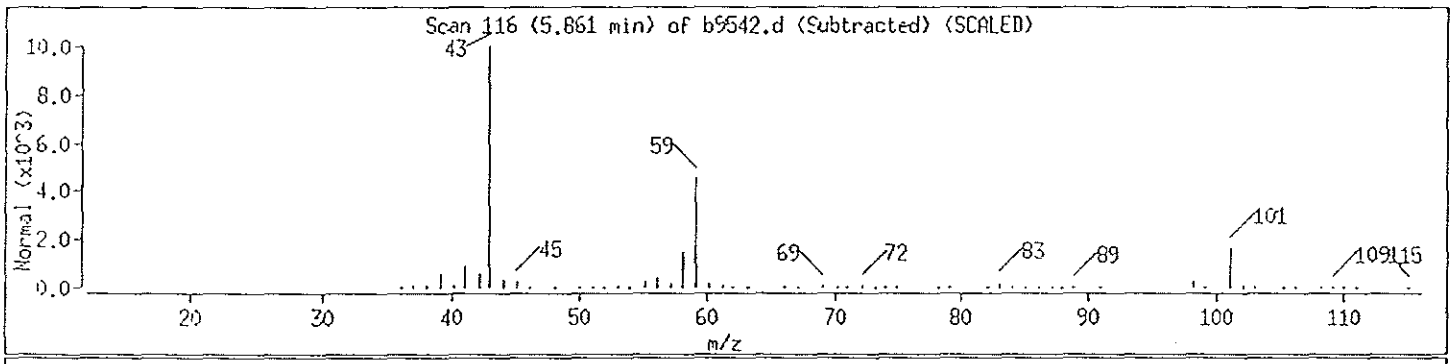
Sample Info: method blank

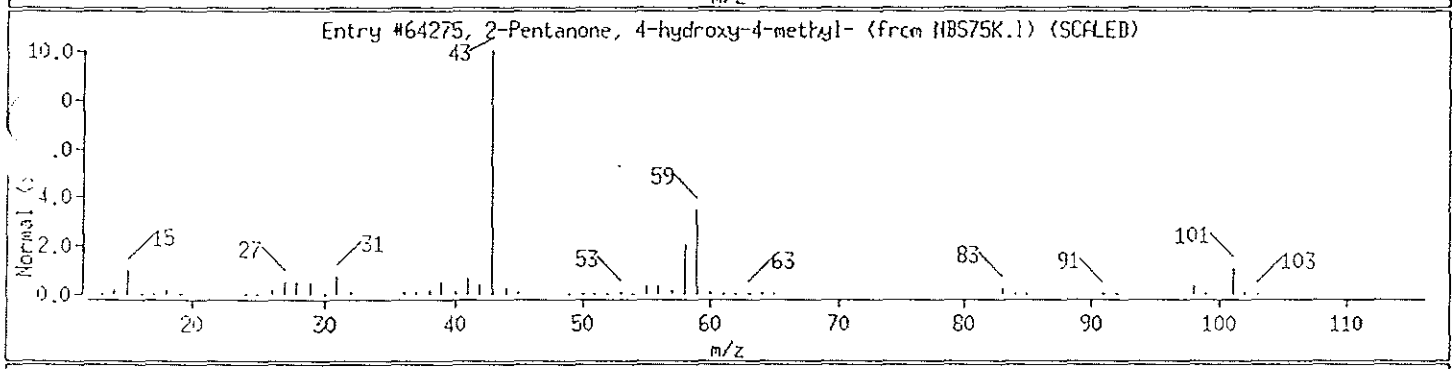
Operator: K. Bigelow

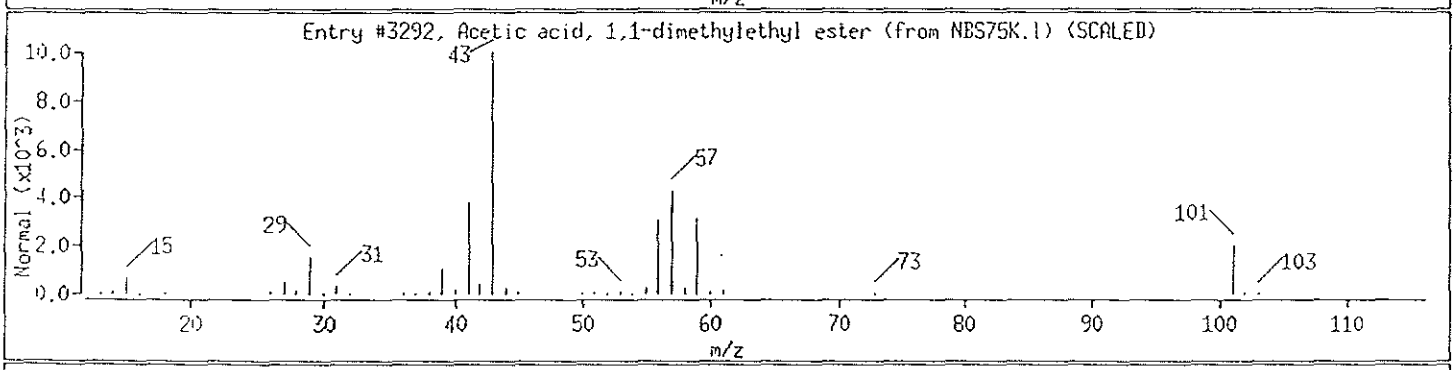
Column phase: J&W DB-5

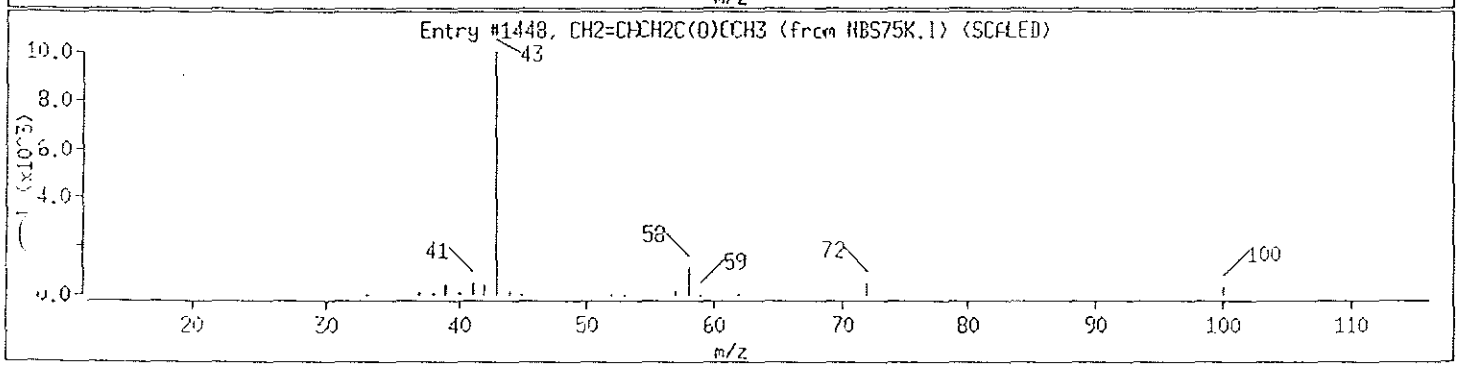
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NBS75K.l	64275	53	C6H12O2	116
Acetic acid, 1,1-dimethylethyl ester	540-88-5	NBS75K.l	3292	28	C6H12O2	116
CH2=CHCH2C(O)OCH3	3724-55-8	NBS75K.l	1448	10	C5H8O2	100









Data File: /chem/aux/msb.i/b012096.b/b9542.d

Date : 20-JAN-96 14:47

Client ID:

Instrument: msb.i

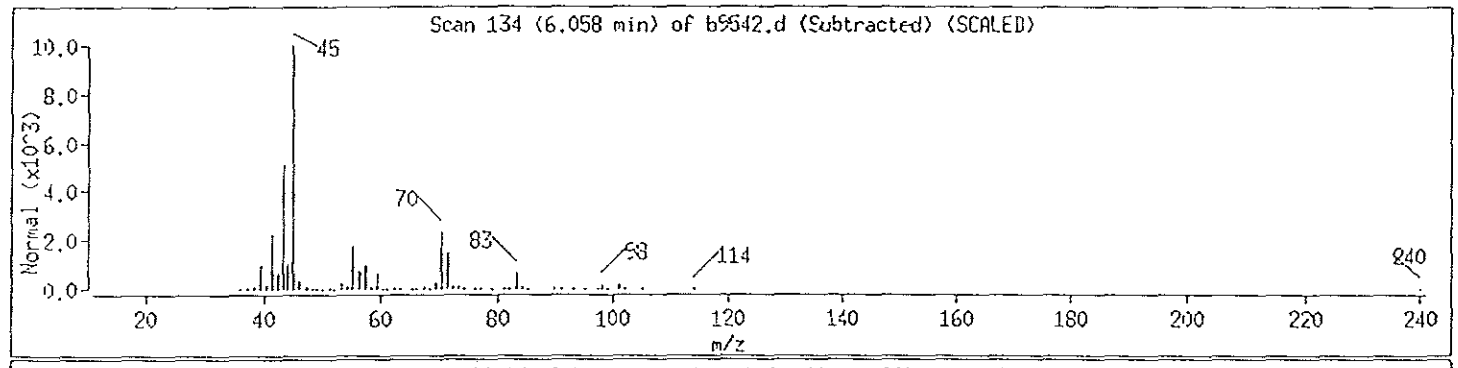
Sample Info: method blank

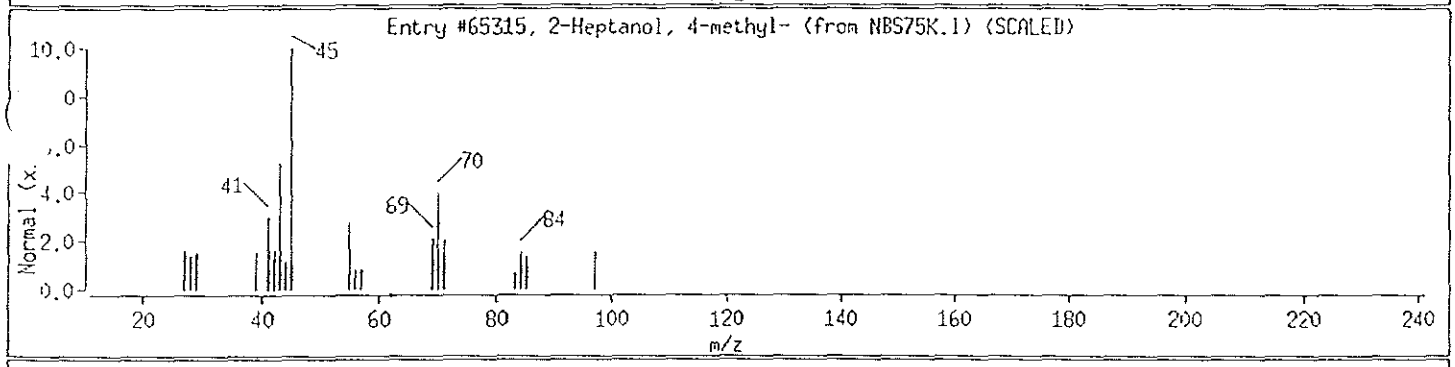
Operator: K. Bigelow

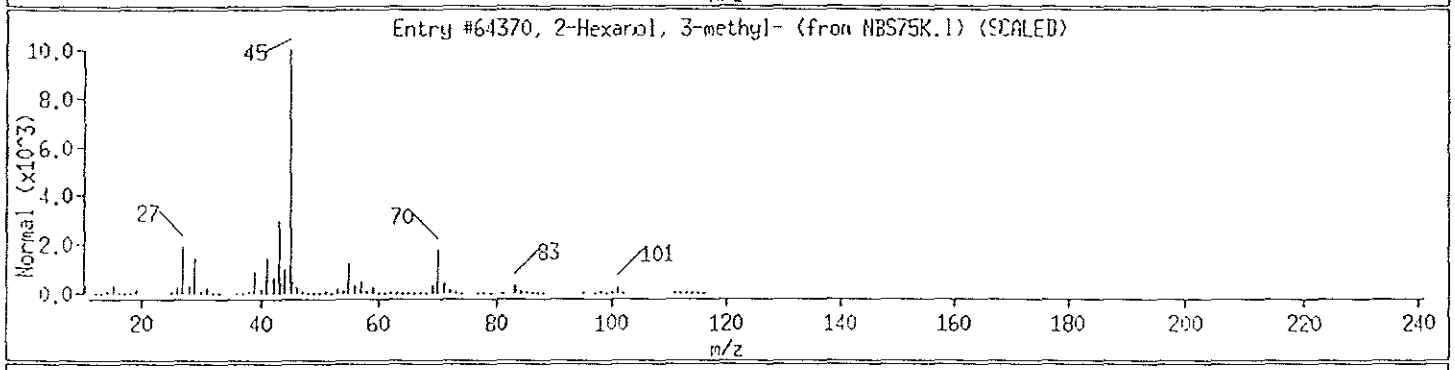
Column phase: J&W DB-5

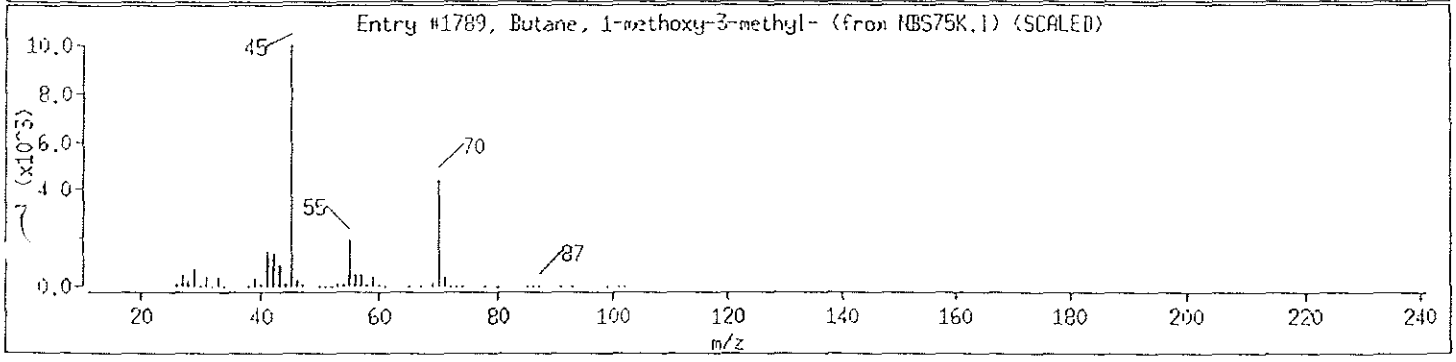
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Heptanol, 4-methyl-	56298-90-9	NBS75K.1	65315	78	C8H18O	130
2-Hexanol, 3-methyl-	2313-65-7	NBS75K.1	64370	78	C7H16O	116
Butane, 1-methoxy-3-methyl-	626-91-5	NBS75K.1	1789	64	C6H14O	102









1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0442 EPA SAMPLE NO.

CLJ78CS001MS

b Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2491CS

Sample wt/vol: 30.4 (g/mL) G Lab File ID: B9523

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: 18 decanted: (Y/N) N Date Extracted: 01/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3700	
111-44-4	bis(2-Chloroethyl)ether	2800	
95-57-8	2-Chlorophenol	3500	
541-73-1	1,3-Dichlorobenzene	2800	
106-46-7	1,4-Dichlorobenzene	2900	
95-50-1	1,2-Dichlorobenzene	2800	
95-48-7	2-Methylphenol	3300	
108-60-1	2,2'-oxybis(1-Chloropropane)	3000	
106-44-5	4-Methylphenol	2900	
621-64-7	N-Nitroso-di-n-propylamine	3700	
67-72-1	Hexachloroethane	3800	
98-95-3	Nitrobenzene	3200	
78-59-1	Isophorone	3200	
88-75-5	2-Nitrophenol	4400	
105-67-9	2,4-Dimethylphenol	4200	
111-91-1	bis(2-Chloroethoxy)methane	3100	
120-83-2	2,4-Dichlorophenol	4600	
120-82-1	1,2,4-Trichlorobenzene	3200	
91-20-3	Naphthalene	3200	
106-47-8	4-Chloroaniline	1100	
87-68-3	Hexachlorobutadiene	3400	
59-50-7	4-Chloro-3-methylphenol	5100	
91-57-6	2-Methylnaphthalene	3200	
77-47-4	Hexachlorocyclopentadiene	1600	
88-06-2	2,4,6-Trichlorophenol	4800	
95-95-4	2,4,5-Trichlorophenol	3700	
91-58-7	2-Chloronaphthalene	3200	
88-74-4	2-Nitroaniline	3300	
131-11-3	Dimethylphthalate	3300	
208-96-8	Acenaphthylene	3200	
606-20-2	2,6-Dinitrotoluene	3500	
99-09-2	3-Nitroaniline	2200	
83-32-9	Acenaphthene	2900	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0443 EPA SAMPLE NO.

CLJ78CS001MS

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2491CS

Sample wt/vol: 30.4 (g/mL) G Lab File ID: B9523

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: 18 decanted: (Y/N) N Date Extracted: 01/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	6600	
100-02-7	4-Nitrophenol	5400	
132-64-9	Dibenzofuran	3200	
121-14-2	2,4-Dinitrotoluene	3500	
84-66-2	Diethylphthalate	3500	
7005-72-3	4-Chlorophenyl-phenylether	3400	
86-73-7	Fluorene	3300	
100-01-6	4-Nitroaniline	3500	
534-52-1	4,6-Dinitro-2-methylphenol	5800	
101-55-3	4-Bromophenyl-phenylether	3500	
86-30-6	N-Nitrosodiphenylamine (1)	3300	
118-74-1	Hexachlorobenzene	3500	
87-86-5	Pentachlorophenol	6100	
85-01-8	Phenanthrene	3300	
120-12-7	Anthracene	3300	
86-74-8	Carbazole	3600	
84-74-2	Di-n-butylphthalate	2900	
206-44-0	Fluoranthene	3200	
129-00-0	Pyrene	3500	
85-68-7	Butylbenzylphthalate	3600	
91-94-1	3,3'-Dichlorobenzidine	1700	
56-55-3	Benzo(a)anthracene	3300	
218-01-9	Chrysene	3400	
117-81-7	bis(2-Ethylhexyl)phthalate	4600	
117-84-0	Di-n-octylphthalate	3900	
205-99-2	Benzo(b)fluoranthene	3900	
207-08-9	Benzo(k)fluoranthene	3300	
50-32-8	Benzo(a)pyrene	3500	
193-39-5	Indeno(1,2,3-cd)pyrene	3000	
53-70-3	Dibenz(a,h)anthracene	3100	
191-24-2	Benzo(g,h,i)perylene	3000	

(1) - Cannot be separated from Diphenylamine

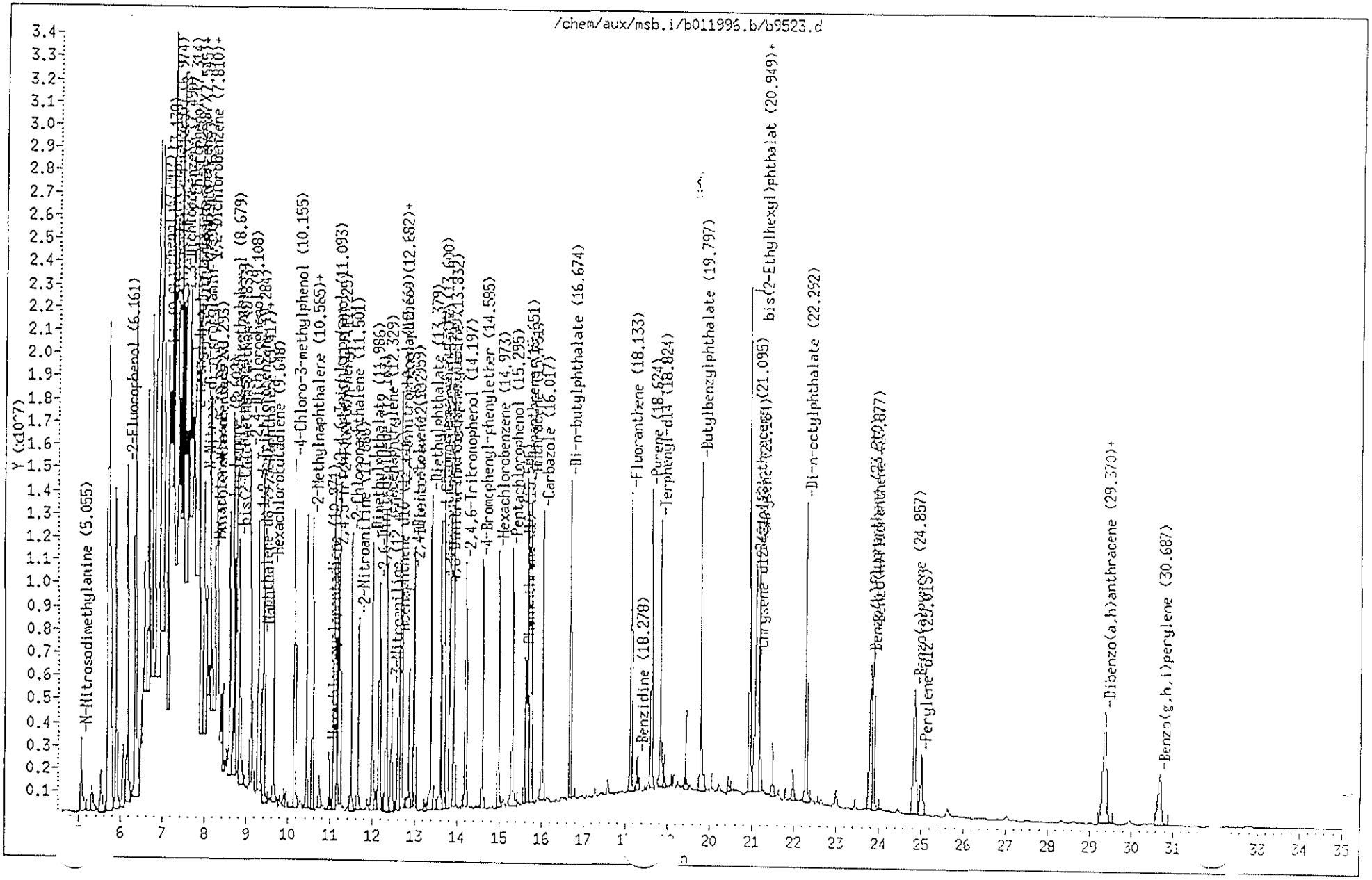
0444

Data File: /chem/aux/msb.i/b011996.b/b9523.d
Date : 19-JAN-96 13:05
Client ID:
Sample Info: 17418n clj78cs001 MS

Column phase: J&W DB-5

Instrument: msb.i

Operator: K. Bigelow
Column diameter: 0.25



Data File: /chem/aux/msb.i/b011996.b/b9523.d
Report Date: 20-Jan-1996 09:11

OHM Analytical Division

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/aux/msb.i/b011996.b/b9523.d
Lab Smp Id:
Inj Date : 19-JAN-96 13:05
Operator : K. Bigelow Inst ID: msb.i
Smp Info : 17418n clj78cs001 MS
Misc Info : jp2491cs,n2c60119,ml,1,1
Comment :
Method : /chem/aux/msb.i/b011996.b/0112996bclp.m
Meth Date : 20-Jan-1996 09:10 kathryn Quant Type: ISTD
Cal Date : 19-JAN-96 10:44 Cal File: b9520.d
Als bottle: 5
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

K Bigelow

		QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
	Compounds							
	1 N-Nitrosodimethylamine	42.00	5.055	5.064	(0.671)	2919018	84.1	84.1
S	3 2-Fluorophenol	112.00	6.161	6.157	(0.818)	6492254	138	138(R)
S	4 Phenol-d5	99.00	6.985	6.976	(0.927)	4744731	83.0	83.0(QR)
	5 Phenol	94.00	7.007	6.987	(0.930)	5306020	92.4	92.4
	6 bis(2-Chloroethyl)ether	93.00	7.139	7.141	(0.947)	8136276	70.5	70.5(Q)
S	7 2-Chlorophenol-D4	132.00	7.292	7.283	(0.968)	5067996	113	113(R)
	8 2-Chlorophenol	128.00	7.314	7.305	(0.971)	4204611	86.7	86.7
	9 1,3-Dichlorobenzene	146.00	7.501	7.491	(0.996)	3550849	69.9	69.9
*	10 1,4-Dichlorobenzene-d4	152.00	7.534	7.524	(1.000)	1404308	40.0	
	11 1,4-Dichlorobenzene	146.00	7.556	7.546	(1.003)	3715098	72.9	72.9
	12 2-Methylphenol	108.00	7.721	7.721	(1.025)	3415679	82.3	82.3
S	13 1,2-Dichlorobenzene-D4	152.00	7.787	7.787	(1.034)	2278380	76.7	76.7(R)
	14 1,2-Dichlorobenzene	146.00	7.799	7.798	(1.035)	3109468	69.5	69.5
	15 2,2'-oxybis(1-Chloropropene)	45.00	7.810	7.809	(1.036)	6323743	75.9	75.9
	16 4-Methylphenol	108.00	7.898	7.897	(1.048)	3153373	72.6	72.6
	17 N-Nitroso-di-n-propylamine	70.00	7.997	7.995	(1.061)	3677049	91.9	91.9
	18 Hexachloroethane	117.00	8.239	8.236	(1.093)	2047668	95.5	95.5
S	19 Nitrobenzene-d5	82.00	8.272	8.269	(0.881)	4838563	84.7	84.7(R)
	20 Nitrobenzene	77.00	8.293	8.291	(0.884)	4438140	79.5	79.5
	21 Isophorone	82.00	8.613	8.597	(0.918)	9379501	79.6	79.6
	22 2,4-Dimethylphenol	107.00	8.679	8.674	(0.925)	5573064	105	105
	23 2-Nitrophenol	139.00	8.767	8.762	(0.934)	3737488	109	109
	24 bis(2-Chloroethoxy)methane	93.00	8.833	8.827	(0.941)	5535943	78.1	78.1
	25 2,4-Dichlorophenol	162.00	9.108	9.101	(0.971)	5139408	116	116
	1,2,4-Trichlorobenzene	180.00	9.284	9.288	(0.989)	3760891	79.0	79.0
	7 Naphthalene-d8	136.00	9.384	9.386	(1.000)	5495280	40.0	
	28 Naphthalene	128.00	9.417	9.419	(1.004)	10304530	79.7	79.7
	29 4-Chloroaniline	127.00	9.417	9.430	(1.004)	2192680	28.0	28.0
	30 Hexachlorobutadiene	225.00	9.648	9.650	(1.028)	2141654	85.6	85.6

Data File: /chem/aux/msb.i/b011996.b/b9523.d
Report Date: 20-Jan-1996 09:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/ml)
	31 4-Chloro-3-methylphenol	107.00	10.155	10.153	(1.032)	5757551	127	127
	32 2-Methylnaphthalene	142.00	10.585	10.580	(1.128)	7024742	79.6	79.6
	33 1-Methylnapthalene	142.00	10.585	10.788	(1.128)	7024742	89.0	~~89.0~~ ND, RL
	34 Hexachlorocyclopentadiene	237.00	10.971	10.986	(0.870)	584941	38.9	38.9
	35 2,4,6-Trichlorophenol	196.00	11.093	11.096	(0.879)	4126087	121	121
	36 2,4,5-Trichlorophenol	196.00	11.170	11.173	(0.885)	3364002	93.2	93.2
$	37 2-Fluorobiphenyl	172.00	11.225	11.228	(0.890)	7870186	80.0	80.0(R)
	38 2-Chloronaphthalene	162.00	11.501	11.502	(0.912)	7221999	80.4	80.4
	39 2-Nitroaniline	65.00	11.666	11.656	(0.925)	2851841	81.7	81.7
	40 Dimethylphthalate	163.00	11.998	11.984	(0.951)	9818487	83.4	83.4
	41 2,6-Dinitrotoluene	165.00	12.163	12.160	(0.964)	2585763	86.4	86.4
	42 Acenaphthylene	152.00	12.329	12.324	(0.977)	11413352	81.0	81.0
	43 3-Nitroaniline	138.00	12.450	12.456	(0.987)	1666278	55.6	55.6
•	44 Acenaphthene-d10	164.00	12.616	12.620	(1.000)	3059514	40.0	
	45 2,4-Dinitrophenol	184.00	12.660	12.653	(1.004)	1703380	165	165(AQ)
	46 Acenaphthene	153.00	12.682	12.686	(1.005)	6116961	73.3	73.3
	47 4-Nitrophenol	109.00	12.682	12.664	(1.005)	1449143	135	135
	48 2,4-Dinitrotoluene	165.00	12.959	12.949	(1.027)	3527165	87.5	87.5
	49 Dibenzofuran	168.00	12.992	12.983	(1.030)	10144089	79.9	79.9
	9 Diethylphthalate	149.00	13.379	13.377	(1.060)	10134272	87.3	87.3
	4-Chlorophenyl-phenylether	204.00	13.600	13.596	(1.078)	4399898	84.7	84.7
	52 Fluorene	166.00	13.677	13.684	(1.084)	7603676	83.0	83.0
	53 4-Nitroaniline	138.00	13.699	13.684	(1.086)	2128958	88.2	88.2
	54 4,6-Dinitro-2-methylphenol	198.00	13.799	13.783	(0.835)	2983025	146	146
	55 N-Nitrosodiphenylamine	169.00	13.832	13.827	(0.837)	6010683	81.6	81.6
$	56 2,4,6-Tribromophenol	330.00	14.197	14.200	(1.125)	2489801	146	146(R)
	57 4-Bromophenyl-phenylether	248.00	14.597	14.595	(0.936)	2957449	88.5	88.5
	58 Hexachlorobenzene	284.00	14.973	14.978	(0.963)	3573473	86.6	86.6
	59 Pentachlorophenol	266.00	15.295	15.296	(0.981)	2814812	153	153
•	60 Phenanthrene-d10	188.00	15.595	15.604	(1.000)	4944931	40.0	
	61 Phenanthrene	178.00	15.651	15.648	(1.004)	11482357	83.7	83.7
	62 Anthracene	178.00	15.751	15.747	(1.010)	11602455	82.7	82.7
	63 Carbazole	167.00	16.017	16.010	(1.027)	10943700	90.4	90.4
	64 Di-n-butylphthalate	149.00	16.674	16.678	(1.069)	15039910	72.1	72.1
	65 Fluoranthene	202.00	18.133	18.134	(1.163)	11797744	79.9	79.9
	66 Benzidine	184.00	18.278	18.276	(0.865)	1091396	25.6	25.6
	67 Pyrene	202.00	18.624	18.617	(0.881)	11898392	88.8	88.8
$	68 Terphenyl-d14	244.00	18.824	18.826	(0.891)	7859798	85.0	85.0(R)
	69 Butylbenzylphthalate	149.00	19.797	19.791	(0.937)	7184058	91.2	91.2
	70 bis(2-Ethylhexyl)phthalate	149.00	20.949	20.954	(0.992)	11075004	115	115
	71 3,3'-Dichlorobenzidine	252.00	20.949	20.954	(0.992)	1691505	43.5	43.5
	72 Benzo(a)anthracene	228.00	21.095	21.086	(0.998)	8919897	83.1	83.1
•	73 Chrysene-d12	240.00	21.128	21.131	(1.000)	3469301	40.0	
	74 Chrysene	228.00	21.184	21.186	(1.003)	8503403	84.2	84.2
	75 Di-n-octylphthalate	149.00	22.292	22.286	(0.891)	16096920	96.6	96.6
	Benzo(b)fluoranthene	252.00	23.810	23.801	(0.952)	8815602	97.6	97.6
	Benzo(k)fluoranthene	252.00	23.877	23.879	(0.955)	8510894	83.5	83.5
	78 Benzo(a)pyrene	252.00	24.857	24.857	(0.994)	7356221	86.8	86.8
•	79 Perylene-d12	264.00	25.013	25.033	(1.000)	3014748	40.0	

Data File: /chem/aux/msb.i/b011996.b/b9523.d
Report Date: 20-Jan-1996 09:11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/ml)
80 Dibenzo(a,h)anthracene	278.00	29.370	29.376	(1.174)	5153888	76.6	76.6
81 Indeno(1,2,3-cd)pyrene	276.00	29.381	29.376	(1.175)	5909936	75.3	75.3
82 Benzo(g,h,i)perylene	276.00	30.687	30.694	(1.227)	4646718	74.5	74.5

QC Flag Legend

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

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0448 EPA SAMPLE NO.

CLJ78CS001MSD

'b Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2491CR

Sample wt/vol: 30.2 (g/mL) G Lab File ID: B9524

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: 18 decanted: (Y/N) N Date Extracted: 01/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3400	
111-44-4	bis(2-Chloroethyl)ether	2600	
95-57-8	2-Chlorophenol	3100	
541-73-1	1,3-Dichlorobenzene	2500	
106-46-7	1,4-Dichlorobenzene	2600	
95-50-1	1,2-Dichlorobenzene	2600	
95-48-7	2-Methylphenol	3000	
108-60-1	2,2'-oxybis(1-Chloropropane)	2800	
106-44-5	4-Methylphenol	2700	
621-64-7	N-Nitroso-di-n-propylamine	3400	
67-72-1	Hexachloroethane	3500	
98-95-3	Nitrobenzene	2900	
78-59-1	Isophorone	2900	
88-75-5	2-Nitrophenol	4100	
105-67-9	2,4-Dimethylphenol	3800	
111-91-1	bis(2-Chloroethoxy)methane	2900	
120-83-2	2,4-Dichlorophenol	4400	
120-82-1	1,2,4-Trichlorobenzene	3000	
91-20-3	Naphthalene	2900	
106-47-8	4-Chloroaniline	1400	
87-68-3	Hexachlorobutadiene	3300	
59-50-7	4-Chloro-3-methylphenol	4700	
91-57-6	2-Methylnaphthalene	3000	
77-47-4	Hexachlorocyclopentadiene	1200	
88-06-2	2,4,6-Trichlorophenol	4500	
95-95-4	2,4,5-Trichlorophenol	3500	
91-58-7	2-Chloronaphthalene	3000	
88-74-4	2-Nitroaniline	3000	
131-11-3	Dimethylphthalate	3200	
208-96-8	Acenaphthylene	3000	
606-20-2	2,6-Dinitrotoluene	3200	
99-09-2	3-Nitroaniline	2300	
83-32-9	Acenaphthene	2800	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0449 EPA SAMPLE NO.

CLJ78CS001MSD

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2491CR

Sample wt/vol: 30.2 (g/mL) G Lab File ID: B9524

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: 18 decanted: (Y/N) N Date Extracted: 01/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

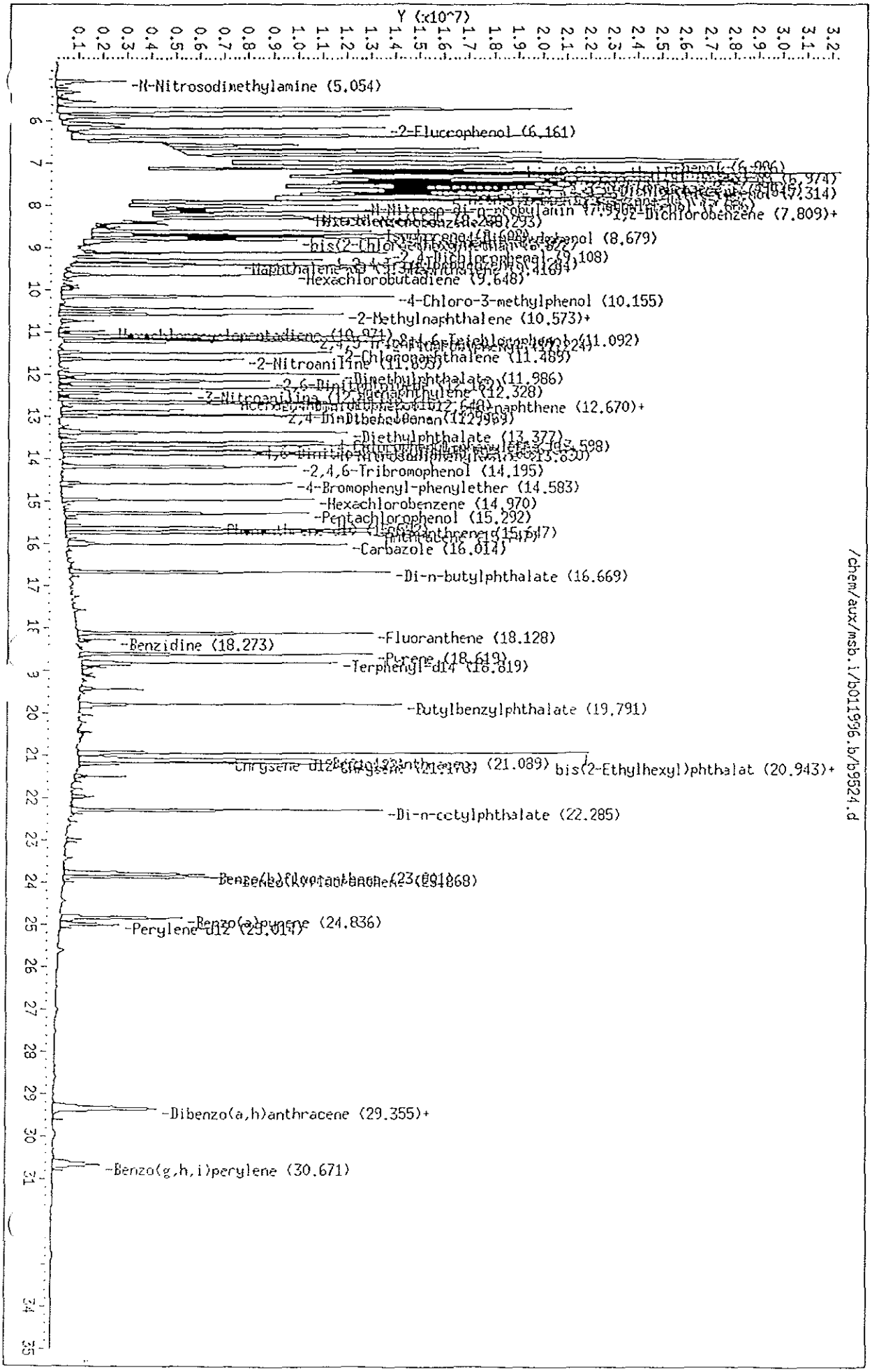
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	5700	
100-02-7	4-Nitrophenol	4900	
132-64-9	Dibenzofuran	3000	
121-14-2	2,4-Dinitrotoluene	3200	
84-66-2	Diethylphthalate	3200	
7005-72-3	4-Chlorophenyl-phenylether	3200	
86-73-7	Fluorene	3000	
100-01-6	4-Nitroaniline	3200	
534-52-1	4,6-Dinitro-2-methylphenol	5400	
101-55-3	4-Bromophenyl-phenylether	3400	
86-30-6	N-Nitrosodiphenylamine (1)	3100	
118-74-1	Hexachlorobenzene	3300	
87-86-5	Pentachlorophenol	6300	
85-01-8	Phenanthrene	3200	
120-12-7	Anthracene	3100	
86-74-8	Carbazole	3400	
84-74-2	Di-n-butylphthalate	2800	
206-44-0	Fluoranthene	3100	
129-00-0	Pyrene	3300	
85-68-7	Butylbenzylphthalate	3300	
91-94-1	3,3'-Dichlorobenzidine	1800	
56-55-3	Benzo(a)anthracene	3200	
218-01-9	Chrysene	3200	
117-81-7	bis(2-Ethylhexyl)phthalate	4100	
117-84-0	Di-n-octylphthalate	4000	
205-99-2	Benzo(b)fluoranthene	3700	
207-08-9	Benzo(k)fluoranthene	3400	
50-32-8	Benzo(a)pyrene	3300	
193-39-5	Indeno(1,2,3-cd)pyrene	2900	
53-70-3	Dibenz(a,h)anthracene	3000	
191-24-2	Benzo(g,h,i)perylene	2800	

(1) - Cannot be separated from Diphenylamine

Data File: /chem/aux/msb.i/b011996.b/b9524.d
Date : 19-JAN-96 13:51
Client ID:
Sample Info: 17418n clj78cs001 MSD

Column phase: J&W DB-5

Instrument: msb.i
Operator: K. Bigelow
Column diameter: 0.25



Data File: /chem/aux/msb.i/b011996.b/b9524.d
Report Date: 20-Jan-1996 09:11

OHM Analytical Division

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/aux/msb.i/b011996.b/b9524.d
Lab Smp Id:
Inj Date : 19-JAN-96 13:51
Operator : K. Bigelow Inst ID: msb.i
Smp Info : 17418n clj78cs001 MSD
Misc Info : jp2491cr,n2c60119,m1,1,1
Comment :
Method : /chem/aux/msb.i/b011996.b/0112996bclp.m
Meth Date : 20-Jan-1996 09:10 kathryn Quant Type: ISTD
Cal Date : 19-JAN-96 10:44 Cal File: b9520.d
Als bottle: 6
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

K Bigelow

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
	1	N-Nitrosodimethylamine	42.00	5.054	5.054	(0.672)	2567531	75.6	75.6
S	3	2-Fluorophenol	112.00	6.161	6.157	(0.819)	5739000	125	125(R)
S	4	Phenol-d5	99.00	6.985	6.976	(0.928)	4264852	76.3	76.3(QR)
	5	Phenol	94.00	6.996	6.987	(0.930)	4708486	83.8	83.8
	6	bis(2-Chloroethyl)ether	93.00	7.138	7.141	(0.949)	7405730	65.6	65.6
S	7	2-Chlorophenol-D4	132.00	7.292	7.283	(0.969)	4644881	106	106(R)
	8	2-Chlorophenol	128.00	7.314	7.305	(0.972)	3675477	77.5	77.5
	9	1,3-Dichlorobenzene	146.00	7.501	7.491	(0.997)	3143832	63.2	63.2
*	10	1,4-Dichlorobenzene-d4	152.00	7.523	7.524	(1.000)	1374100	40.0	
	11	1,4-Dichlorobenzene	146.00	7.556	7.546	(1.004)	3228604	64.8	64.8
	12	2-Methylphenol	108.00	7.721	7.721	(1.026)	3070899	75.6	75.6
S	13	1,2-Dichlorobenzene-D4	152.00	7.776	7.787	(1.034)	2090337	71.9	71.9(R)
	14	1,2-Dichlorobenzene	146.00	7.798	7.798	(1.037)	2829092	64.6	64.6
	15	2,2'-oxybis(1-Chloropropene)	45.00	7.809	7.809	(1.038)	5738571	70.4	70.4
	16	4-Methylphenol	108.00	7.897	7.897	(1.050)	2843578	66.9	66.9
	17	N-Nitroso-di-n-propylamine	70.00	7.996	7.995	(1.063)	3274608	83.6	83.6
	18	Hexachloroethane	117.00	8.238	8.236	(1.095)	1811216	86.3	86.3
S	19	Nitrobenzene-d5	82.00	8.260	8.269	(0.881)	4284711	76.4	76.4(R)
	20	Nitrobenzene	77.00	8.293	8.291	(0.885)	3926720	71.7	71.7
	21	Isophorone	82.00	8.602	8.597	(0.918)	8363019	72.4	72.4
	22	2,4-Dimethylphenol	107.00	8.679	8.674	(0.926)	4891390	94.0	94.0
	23	2-Nitrophenol	139.00	8.767	8.762	(0.935)	3435327	102	102
	24	bis(2-Chloroethoxy)methane	93.00	8.833	8.827	(0.942)	5016010	72.1	72.1
	25	2,4-Dichlorophenol	162.00	9.108	9.101	(0.972)	4732613	109	109
		1,2,4-Trichlorobenzene	180.00	9.284	9.288	(0.991)	3443652	73.7	73.7
	*	Naphthalene-d8	136.00	9.372	9.386	(1.000)	5392032	40.0	
	28	Naphthalene	128.00	9.416	9.419	(1.005)	9233504	72.8	72.8
	29	4-Chloroaniline	127.00	9.416	9.430	(1.005)	2579029	33.6	33.6
	30	Hexachlorobutadiene	225.00	9.648	9.650	(1.029)	1994518	81.2	81.2

Data File: /chem/aux/msb.i/b011996.b/b9524.d
Report Date: 20-Jan-1996 09:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/ml)
	31 4-Chloro-3-methylphenol	107.00	10.155	10.153	(1.083)	5247305	118	118
	32 2-Methylnaphthalene	142.00	10.573	10.580	(1.128)	6372636	73.6	73.6
	33 1-Methylnapthalene	142.00	10.573	10.788	(1.128)	6372636	82.3	~~82.3~~ ND, tt
	34 Hexachlorocyclopentadiene	237.00	10.971	10.986	(0.870)	443684	29.9	29.9
	35 2,4,6-Trichlorophenol	196.00	11.092	11.096	(0.879)	3810982	113	113
	36 2,4,5-Trichlorophenol	196.00	11.169	11.173	(0.835)	3079722	86.3	86.3
S	37 2-Fluorobiphenyl	172.00	11.224	11.228	(0.890)	7305414	75.1	75.1(R)
	38 2-Chloronaphthalene	162.00	11.489	11.502	(0.911)	6570367	74.0	74.0
	39 2-Nitroaniline	65.00	11.655	11.656	(0.924)	2617810	75.8	75.8
	40 Dimethylphthalate	163.00	11.986	11.984	(0.950)	9113718	78.3	78.3
	41 2,6-Dinitrotoluene	165.00	12.162	12.160	(0.964)	2365895	80.0	80.0
	42 Acenaphthylene	152.00	12.328	12.324	(0.977)	10512048	75.4	75.4
	43 3-Nitroaniline	138.00	12.449	12.456	(0.987)	1662539	56.2	56.2
*	44 Acenaphthene-d10	164.00	12.615	12.620	(1.000)	3023802	40.0	
	45 2,4-Dinitrophenol	184.00	12.648	12.653	(1.003)	1452575	142	142(Q)
	46 Acenaphthene	153.00	12.681	12.686	(1.005)	5680939	68.9	68.9
	47 4-Nitrophenol	109.00	12.670	12.664	(1.004)	1284012	121	121
	48 2,4-Dinitrotoluene	165.00	12.946	12.949	(1.026)	3198485	80.3	80.3
	49 Dibenzofuran	168.00	12.979	12.983	(1.029)	9228228	73.5	73.5
	50 Diethylphthalate	149.00	13.377	13.377	(1.060)	9060509	79.0	79.0
	4-Chlorophenyl-phenylether	204.00	13.598	13.596	(1.078)	4026742	78.4	78.4
	52 Fluorene	166.00	13.675	13.684	(1.084)	6802030	75.2	75.2
	53 4-Nitroaniline	138.00	13.686	13.684	(1.085)	1917770	80.4	80.4
	54 4,6-Dinitro-2-methylphenol	198.00	13.797	13.783	(0.835)	2589805	133	133
	55 N-Nitrosodiphenylamine	169.00	13.830	13.827	(0.887)	5445774	77.7	77.7
S	56 2,4,6-Tribromophenol	330.00	14.195	14.200	(1.125)	2427868	144	144(R)
	57 4-Bromophenyl-phenylether	248.00	14.594	14.595	(0.935)	2654756	83.5	83.5
	58 Hexachlorobenzene	284.00	14.970	14.978	(0.960)	3263053	83.1	83.1
	59 Pentachlorophenol	266.00	15.292	15.296	(0.981)	2749837	157	157
*	60 Phenanthrene-d10	188.00	15.592	15.604	(1.000)	4703559	40.0	
	61 Phenanthrene	178.00	15.647	15.648	(1.004)	10246137	78.5	78.5
	62 Anthracene	178.00	15.747	15.747	(1.010)	10369598	77.7	77.7
	63 Carbazole	167.00	16.014	16.010	(1.027)	9856122	85.6	85.6
	64 Di-n-butylphthalate	149.00	16.669	16.678	(1.069)	13787349	69.5	69.5
	65 Fluoranthene	202.00	18.128	18.134	(1.163)	10926640	77.8	77.8
	66 Benzidine	184.00	18.273	18.276	(0.865)	1125418	26.0	26.0
	67 Pyrene	202.00	18.619	18.617	(0.831)	11000352	80.8	80.8
S	68 Terphenyl-d14	244.00	18.819	18.826	(0.891)	7362175	78.4	78.4(R)
	69 Butylbenzylphthalate	149.00	19.791	19.791	(0.937)	6578700	82.2	82.2
	70 bis(2-Ethylhexyl)phthalate	149.00	20.943	20.954	(0.992)	9950518	101	101
	71 3,3'-Dichlorobenzidine	252.00	20.943	20.954	(0.992)	1784779	45.2	45.2
	72 Benzo(a)anthracene	228.00	21.089	21.086	(0.998)	8616534	79.0	79.0
*	73 Chrysene-d12	240.00	21.122	21.131	(1.000)	3526989	40.0	
	74 Chrysene	228.00	21.178	21.186	(1.003)	8072455	78.6	78.6
	75 Di-n-octylphthalate	149.00	22.285	22.286	(0.891)	15283746	98.7	98.7
	Benzo(b)fluoranthene	252.00	23.801	23.801	(0.952)	7799749	93.0	93.0
	Benzo(k)fluoranthene	252.00	23.868	23.879	(0.954)	8006539	84.5	84.5
	78 Benzo(a)pyrene	252.00	24.847	24.857	(0.993)	6400280	81.3	81.3
*	79 Perylene-d12	264.00	25.014	25.033	(1.000)	2799960	40.0	

Data File: /chem/aux/msb.i/b011996.b/b9524.d
Report Date: 20-Jan-1996 09:11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
80 Dibenzo(a,h)anthracene	278.00	29.355	29.376	(1.174)	4610162	73.8	73.8
81 Indeno(1,2,3-cd)pyrene	276.00	29.355	29.376	(1.174)	5303044	72.8	72.8
82 Benzo(g,h,i)perylene	276.00	30.671	30.694	(1.226)	4043214	69.8	69.8

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 0454

EPA SAMPLE NO.

SSPK01A

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: N2C60119CS

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B9522

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: _____ decanted: (Y/N) N Date Extracted: 01/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3600	
111-44-4	bis(2-Chloroethyl)ether	2300	
95-57-8	2-Chlorophenol	3600	
541-73-1	1,3-Dichlorobenzene	2700	
106-46-7	1,4-Dichlorobenzene	2800	
95-50-1	1,2-Dichlorobenzene	2600	
95-48-7	2-Methylphenol	2600	
108-60-1	2,2'-oxybis(1-Chloropropane)	2500	
106-44-5	4-Methylphenol	2600	
621-64-7	N-Nitroso-di-n-propylamine	2700	
67-72-1	Hexachloroethane	2600	
98-95-3	Nitrobenzene	2800	
78-59-1	Isophorone	2700	
88-75-5	2-Nitrophenol	3900	
105-67-9	2,4-Dimethylphenol	3200	
111-91-1	bis(2-Chloroethoxy)methane	2700	
120-83-2	2,4-Dichlorophenol	3900	
120-82-1	1,2,4-Trichlorobenzene	2700	
91-20-3	Naphthalene	2600	
106-47-8	4-Chloroaniline	1200	
87-68-3	Hexachlorobutadiene	2900	
59-50-7	4-Chloro-3-methylphenol	4000	
91-57-6	2-Methylnaphthalene	2600	
77-47-4	Hexachlorocyclopentadiene	1600	
88-06-2	2,4,6-Trichlorophenol	4000	
95-95-4	2,4,5-Trichlorophenol	2900	
91-58-7	2-Chloronaphthalene	2600	
88-74-4	2-Nitroaniline	2700	
131-11-3	Dimethylphthalate	2800	
208-96-8	Acenaphthylene	2700	
606-20-2	2,6-Dinitrotoluene	2900	
99-09-2	3-Nitroaniline	1900	
83-32-9	Acenaphthene	2500	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0455 EPA SAMPLE NO.

SSPK01A

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: N2C60119CS

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B9522

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: _____ decanted: (Y/N) N Date Extracted: 01/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

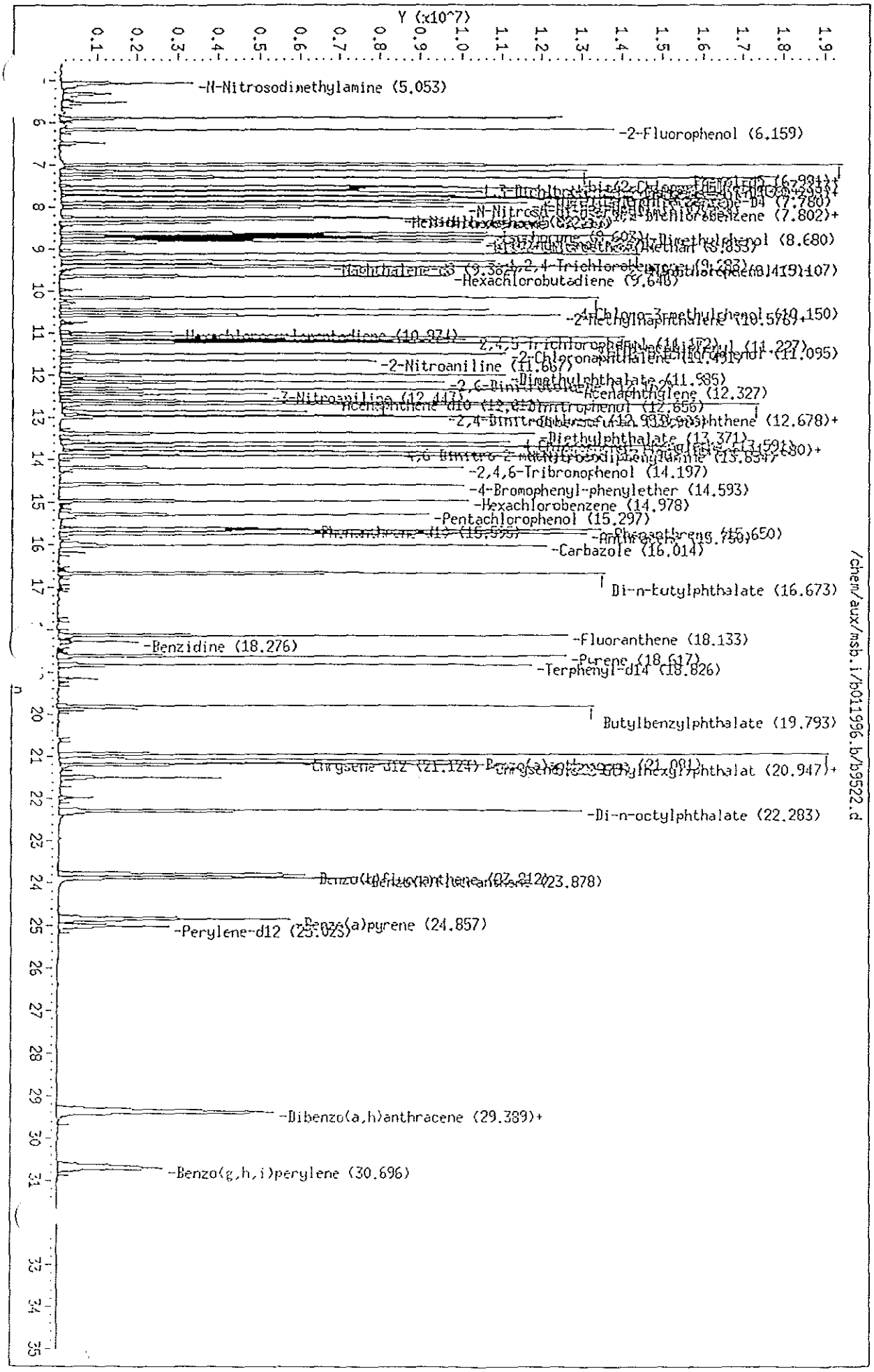
GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	4300	
100-02-7	4-Nitrophenol	4100	
132-64-9	Dibenzofuran	2600	
121-14-2	2,4-Dinitrotoluene	2900	
84-66-2	Diethylphthalate	2800	
7005-72-3	4-Chlorophenyl-phenylether	2800	
86-73-7	Fluorene	2700	
100-01-6	4-Nitroaniline	3000	
534-52-1	4,6-Dinitro-2-methylphenol	4700	
101-55-3	4-Bromophenyl-phenylether	2800	
86-30-6	N-Nitrosodiphenylamine (1)	2700	
118-74-1	Hexachlorobenzene	2800	
87-86-5	Pentachlorophenol	4500	
85-01-8	Phenanthrene	2700	
120-12-7	Anthracene	2700	
86-74-8	Carbazole	3000	
84-74-2	Di-n-butylphthalate	2500	
206-44-0	Fluoranthene	2700	
129-00-0	Pyrene	2800	
85-68-7	Butylbenzylphthalate	2900	
91-94-1	3,3'-Dichlorobenzidine	1500	
56-55-3	Benzo(a)anthracene	2800	
218-01-9	Chrysene	2800	
117-81-7	bis(2-Ethylhexyl)phthalate	2900	
117-84-0	Di-n-octylphthalate	3000	
205-99-2	Benzo(b)fluoranthene	3100	
207-08-9	Benzo(k)fluoranthene	2700	
50-32-8	Benzo(a)pyrene	2800	
193-39-5	Indeno(1,2,3-cd)pyrene	2900	
53-70-3	Dibenz(a,h)anthracene	2900	
191-24-2	Benzo(g,h,i)perylene	2900	

(1) - Cannot be separated from Diphenylamine

Data File: /chem/aux/msb.i/b011996.b/b9522.d
Date : 19-JAN-96 12:18
Client ID:
Sample Info: method spike

Column phase: J&W DB-5



Operator: K. Bigelow
Column diameter: 0.25

Instrument: msb.i

Data File: /chem/aux/msb.i/b011996.b/b9522.d
port Date: 20-Jan-1996 09:10

OHM Analytical Division

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/aux/msb.i/b011996.b/b9522.d
Lab Smp Id:
Inj Date : 19-JAN-96 12:18
Operator : K. Bigelow Inst ID: msb.i
Smp Info : method spike
Misc Info : n2c60119cs,n2c60119,ml,1,1
Comment :
Method : /chem/aux/msb.i/b011996.b/0112996bclp.m
Meth Date : 20-Jan-1996 09:10 kathryn Quant Type: ISTD
Cal Date : 19-JAN-96 10:44 Cal File: b9520.d
Als bottle: 4
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

K Bigelow

		ounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
	1	N-Nitrosodimethylamine	42.00	5.053	5.064	(0.671)	2838579	74.4	74.4
$	3	2-Fluorophenol	112.00	6.159	6.157	(0.818)	6264053	122	122(R)
$	4	Phenol-d5	99.00	6.980	6.976	(0.927)	6926042	110	110(R)
	5	Phenol	94.00	7.002	6.987	(0.930)	6744216	107	107
	6	bis(2-Chloroethyl)ether	93.00	7.133	7.141	(0.948)	8743343	68.9	68.9(Q)
$	7	2-Chlorophenol-D4	132.00	7.287	7.283	(0.968)	5637252	114	114(R)
	8	2-Chlorophenol	128.00	7.309	7.305	(0.971)	5700810	107	107
	9	1,3-Dichlorobenzene	146.00	7.495	7.491	(0.995)	4476524	80.1	80.1
*	10	1,4-Dichlorobenzene-d4	152.00	7.528	7.524	(1.000)	1544754	40.0	
	11	1,4-Dichlorobenzene	146.00	7.550	7.546	(1.003)	4653470	83.0	83.0
	12	2-Methylphenol	108.00	7.725	7.721	(1.026)	3493413	76.5	76.5
$	13	1,2-Dichlorobenzene-D4	152.00	7.780	7.787	(1.034)	2700321	82.6	82.6(R)
	14	1,2-Dichlorobenzene	146.00	7.802	7.798	(1.036)	3823086	77.7	77.7
	15	2,2'-oxybis(1-Chloropropene)	45.00	7.802	7.809	(1.036)	6955882	75.9	75.9
	16	4-Methylphenol	108.00	7.890	7.897	(1.048)	3782418	79.2	79.2
	17	N-Nitroso-di-n-propylamine	70.00	7.989	7.995	(1.061)	3568689	81.1	81.1
	18	Hexachloroethane	117.00	8.230	8.236	(1.093)	1859625	78.9	78.9
$	19	Nitrobenzene-d5	82.00	8.263	8.269	(0.881)	4522596	83.9	83.9(R)
	20	Nitrobenzene	77.00	8.296	8.291	(0.884)	4357875	82.8	82.8
	21	Isophorone	82.00	8.603	8.597	(0.917)	9075704	81.6	81.6
	22	2,4-Dimethylphenol	107.00	8.680	8.674	(0.925)	4767186	95.3	95.3
	23	2-Nitrophenol	139.00	8.767	8.762	(0.934)	3809001	117	117
	24	bis(2-Chloroethoxy)methane	93.00	8.833	8.827	(0.942)	5417903	81.0	81.0
		2,4-Dichlorophenol	162.00	9.107	9.101	(0.971)	4857513	116	116
		1,2,4-Trichlorobenzene	180.00	9.283	9.288	(0.939)	3678933	81.9	81.9
	7	Naphthalene-d8	136.00	9.382	9.386	(1.000)	5185150	40.0	
	28	Naphthalene	128.00	9.415	9.419	(1.004)	9667331	79.2	79.2
	29	4-Chloroaniline	127.00	9.426	9.430	(1.005)	2592765	35.1	35.1
	30	Hexachlorobutadiene	225.00	9.646	9.650	(1.023)	2072594	87.8	87.8

Data File: /chem/aux/msb.i/b011996.b/b9522.d
Report Date: 20-Jan-1996 09:10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/ml)
	31 4-Chloro-3-methylphenol	107.00	10.150	10.153	(1.082)	5122768	120	120
	32 2-Methylnaphthalene	142.00	10.578	10.580	(1.128)	6561158	78.8	78.8
	33 1-Methylnapthalene	142.00	10.578	10.788	(1.128)	6561158	88.1	~~88.1~~ ND, Rt
	34 Hexachlorocyclopentadiene	237.00	10.974	10.986	(0.870)	655833	46.5	46.5
	35 2,4,6-Trichlorophenol	196.00	11.095	11.096	(0.880)	3809039	119	119
	36 2,4,5-Trichlorophenol	196.00	11.172	11.173	(0.886)	2910694	86.0	86.0
S	37 2-Fluorobiphenyl	172.00	11.227	11.228	(0.890)	7671559	83.1	83.1(R)
	38 2-Chloronaphthalene	162.00	11.502	11.502	(0.912)	6684661	79.4	79.4
	39 2-Nitroaniline	65.00	11.667	11.656	(0.925)	2658446	81.2	81.2
	40 Dimethylphthalate	163.00	11.996	11.984	(0.951)	9262836	83.9	83.9
	41 2,6-Dinitrotoluene	165.00	12.162	12.160	(0.964)	2433955	86.7	86.7
	42 Acenaphthylene	152.00	12.327	12.324	(0.977)	10601500	80.2	80.2
	43 3-Nitroaniline	138.00	12.447	12.456	(0.987)	1578978	56.2	56.2
*	44 Acenaphthene-d10	164.00	12.612	12.620	(1.000)	2868417	40.0	
	45 2,4-Dinitrophenol	184.00	12.656	12.653	(1.003)	1245139	128	128(Q)
	46 Acenaphthene	153.00	12.689	12.686	(1.006)	5861213	75.0	75.0
	47 4-Nitrophenol	109.00	12.667	12.664	(1.004)	1226344	122	122
	48 2,4-Dinitrotoluene	165.00	12.953	12.949	(1.027)	3338975	88.4	88.4
	49 Dibenzofuran	168.00	12.986	12.983	(1.030)	9414213	79.1	79.1
	50 Diethylphthalate	149.00	13.371	13.377	(1.060)	9259969	85.1	85.1
	51 4-Chlorophenyl-phenylether	204.00	13.602	13.595	(1.079)	4060004	83.3	83.3
	52 Fluorene	166.00	13.680	13.684	(1.085)	6997702	81.5	81.5
	53 4-Nitroaniline	138.00	13.691	13.684	(1.085)	2045683	90.4	90.4
	54 4,6-Dinitro-2-methylphenol	198.00	13.801	13.793	(0.835)	2645190	140	140
	55 N-Nitrosodiphenylamine	169.00	13.834	13.827	(0.837)	5523185	80.8	80.8
S	56 2,4,6-Tribromophenol	330.00	14.197	14.200	(1.126)	2313030	144	144(R)
	57 4-Bromophenyl-phenylether	248.00	14.593	14.595	(0.936)	2622553	84.6	84.6
	58 Hexachlorobenzene	284.00	14.978	14.978	(0.960)	3246119	84.8	84.8
	59 Pentachlorophenol	266.00	15.297	15.296	(0.981)	2301211	135	135
*	60 Phenanthrene-d10	188.00	15.595	15.604	(1.000)	4587289	40.0	
	61 Phenanthrene	178.00	15.650	15.648	(1.004)	10487085	82.4	82.4
	62 Anthracene	178.00	15.750	15.747	(1.010)	10700662	82.2	82.2
	63 Carbazole	167.00	16.014	16.010	(1.027)	10203553	90.9	90.9
	64 Di-n-butylphthalate	149.00	16.673	16.678	(1.069)	14273139	73.8	73.8
	65 Fluoranthene	202.00	18.133	18.134	(1.163)	11134882	81.3	81.3
	66 Benzidine	184.00	18.276	18.276	(0.355)	1391513	33.2	33.2
	67 Pyrene	202.00	18.617	18.617	(0.831)	11111335	84.3	84.3
S	68 Terphenyl-d14	244.00	18.826	18.826	(0.891)	7520809	82.7	82.7(R)
	69 Butylbenzylphthalate	149.00	19.793	19.791	(0.937)	6685764	86.3	86.3
	70 bis(2-Ethylhexyl)phthalate	149.00	20.947	20.954	(0.992)	8248222	86.9	86.9
	71 3,3'-Dichlorobenzidine	252.00	20.947	20.954	(0.992)	1718405	44.9	44.9
	72 Benzo(a)anthracene	228.00	21.091	21.086	(0.998)	8914472	84.4	84.4
*	73 Chrysene-d12	240.00	21.124	21.131	(1.000)	3412966	40.0	
	74 Chrysene	228.00	21.190	21.186	(1.003)	8469142	85.2	85.2
	75 Di-n-octylphthalate	149.00	22.283	22.286	(0.891)	15548088	91.0	91.0
	76 Benzo(b)fluoranthene	252.00	23.812	23.801	(0.952)	8736743	94.3	94.3
	77 Benzo(k)fluoranthene	252.00	23.878	23.879	(0.954)	8597959	82.2	82.2
	78 Benzo(a)pyrene	252.00	24.857	24.857	(0.993)	7397718	85.1	85.1
*	79 Perylene-d12	264.00	25.023	25.033	(1.000)	3090951	40.0	

Data File: /chem/aux/msb.i/b011996.b/b9522.d
Report Date: 20-Jan-1996 09:10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/ml)
80 Dibenzo(a,h)anthracene	278.00	29.378	29.376	(1.174)	5957183	86.4	86.4
81 Indeno(1,2,3-cd)pyrene	276.00	29.389	29.376	(1.174)	6936234	86.2	86.2
82 Benzo(g,h,i)perylene	276.00	30.696	30.694	(1.227)	5510717	86.2	86.2

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0460 EPA SAMPLE NO.

SSPK01 B

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418 SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) WATER Lab Sample ID: N1C60123CS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B9543

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: _____ decanted: (Y/N) N Date Extracted: 01/19/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/20/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	88	
111-44-4	bis(2-Chloroethyl)ether	62	
95-57-8	2-Chlorophenol	96	
541-73-1	1,3-Dichlorobenzene	53	
106-46-7	1,4-Dichlorobenzene	49	
95-50-1	1,2-Dichlorobenzene	50	
95-48-7	2-Methylphenol	77	
108-60-1	2,2'-oxybis(1-Chloropropane)	71	
106-44-5	4-Methylphenol	78	
621-64-7	N-Nitroso-di-n-propylamine	75	
67-72-1	Hexachloroethane	45	
98-95-3	Nitrobenzene	75	
78-59-1	Isophorone	77	
88-75-5	2-Nitrophenol	110	
105-67-9	2,4-Dimethylphenol	100	
111-91-1	bis(2-Chloroethoxy)methane	75	
120-83-2	2,4-Dichlorophenol	100	
120-82-1	1,2,4-Trichlorobenzene	55	
91-20-3	Naphthalene	59	
106-47-8	4-Chloroaniline	22	
87-68-3	Hexachlorobutadiene	49	
59-50-7	4-Chloro-3-methylphenol	110	
91-57-6	2-Methylnaphthalene	63	
77-47-4	Hexachlorocyclopentadiene	52	
88-06-2	2,4,6-Trichlorophenol	110	
95-95-4	2,4,5-Trichlorophenol	82	
91-58-7	2-Chloronaphthalene	72	
88-74-4	2-Nitroaniline	76	
131-11-3	Dimethylphthalate	73	
208-96-8	Acenaphthylene	73	
606-20-2	2,6-Dinitrotoluene	81	
99-09-2	3-Nitroaniline	43	
83-32-9	Acenaphthene	65	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0461 EPA SAMPLE NO.

SSPK01B

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418 SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) WATER Lab Sample ID: N1C60123CS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B9543

Level: (low/med) LOW Date Received: 01/18/96

% Moisture: _____ decanted: (Y/N) N Date Extracted: 01/19/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/20/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	170	
100-02-7	4-Nitrophenol	100	
132-64-9	Dibenzofuran	71	
121-14-2	2,4-Dinitrotoluene	82	
84-66-2	Diethylphthalate	77	
7005-72-3	4-Chlorophenyl-phenylether	76	
86-73-7	Fluorene	73	
100-01-6	4-Nitroaniline	86	
534-52-1	4,6-Dinitro-2-methylphenol	150	
101-55-3	4-Bromophenyl-phenylether	76	
86-30-6	N-Nitrosodiphenylamine (1)	75	
118-74-1	Hexachlorobenzene	79	
87-86-5	Pentachlorophenol	140	
85-01-8	Phenanthrene	76	
120-12-7	Anthracene	76	
86-74-8	Carbazole	83	
84-74-2	Di-n-butylphthalate	64	
206-44-0	Fluoranthene	76	
129-00-0	Pyrene	82	
85-68-7	Butylbenzylphthalate	82	
91-94-1	3,3'-Dichlorobenzidine	34	
56-55-3	Benzo(a)anthracene	83	
218-01-9	Chrysene	81	
117-81-7	bis(2-Ethylhexyl)phthalate	84	
117-84-0	Di-n-octylphthalate	79	
205-99-2	Benzo(b)fluoranthene	90	
207-08-9	Benzo(k)fluoranthene	75	
50-32-8	Benzo(a)pyrene	85	
193-39-5	Indeno(1,2,3-cd)pyrene	81	
53-70-3	Dibenz(a,h)anthracene	84	
191-24-2	Benzo(g,h,i)perylene	78	

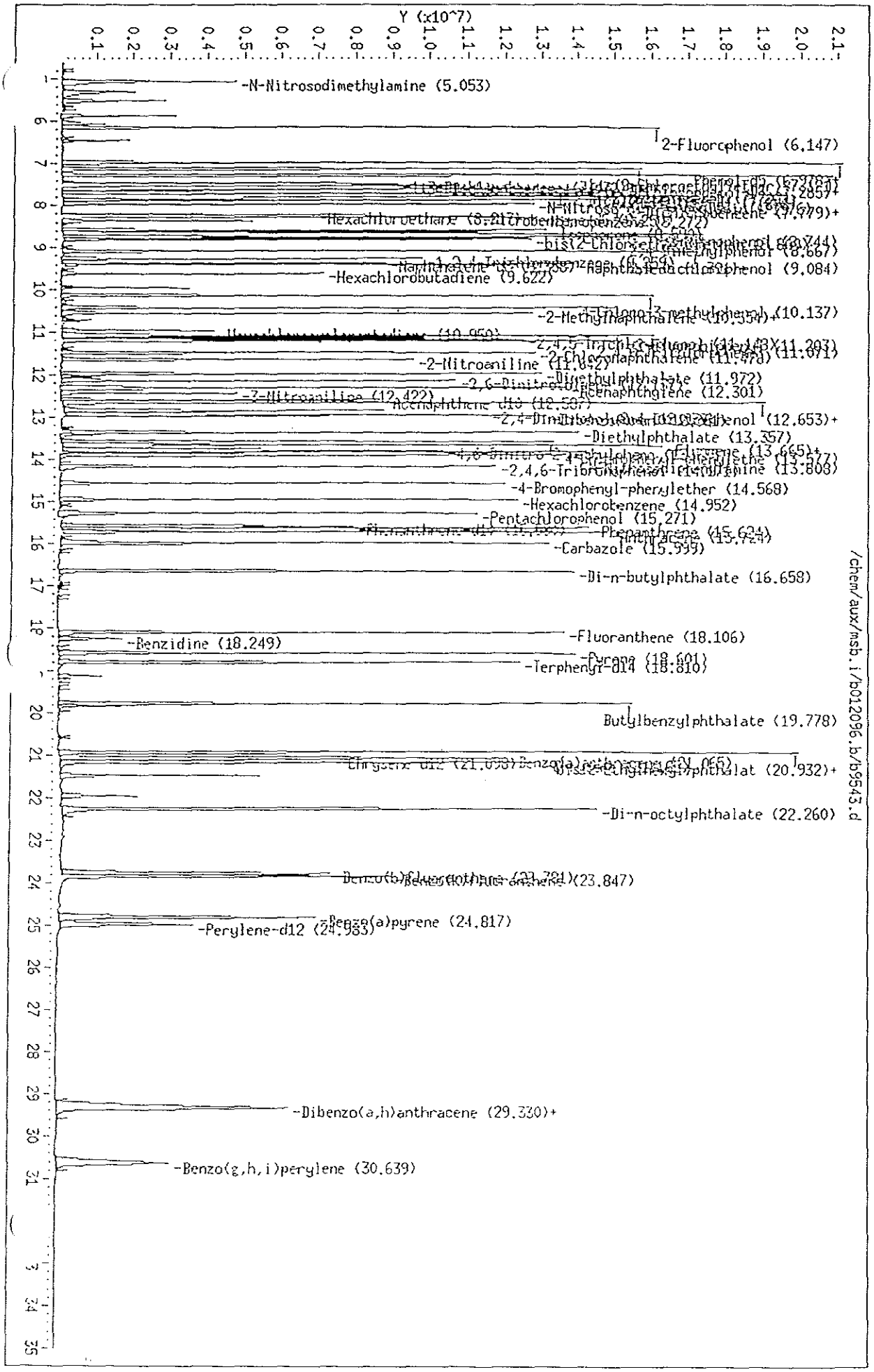
(1) - Cannot be separated from Diphenylamine

Data File: /chem/aux/msb.i/b012096.b/b9543.d
Date : 20-JAN-96 15:34
Client ID:
Sample Info: method spike

Column phase: J&W DB-5

Instrument: msb.i

Operator: K. Bigelow
Column diameter: 0.25



Data File: /chem/aux/msb.i/b012096.b/b9543.d
Report Date: 22-Jan-1996 07:07

OHM Analytical Division

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/aux/msb.i/b012096.b/b9543.d
Lab Smp Id:
Inj Date : 20-JAN-96 15:34
Operator : K. Bigelow Inst ID: msb.i
Smp Info : method spike
Misc Info : n1c60123cs,n1c60123,m1,1,1
Comment :
Method : /chem/aux/msb.i/b012096.b/0112996bclp.m
Meth Date : 22-Jan-1996 07:06 kathryn Quant Type: ISTD
Cal Date : 20-JAN-96 10:52 Cal File: b9537a.d
Als bottle: 8
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

K Bigelow

			QUANT SIG						CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/ml)
	1	N-Nitrosodimethylamine	42.00	5.053	5.043	(0.673)	3845428	76.0	76.0
S	3	2-Fluorophenol	112.00	6.147	6.126	(0.819)	7574765	111	111(R)
S	4	Phenol-d5	99.00	6.967	6.946	(0.928)	7475920	90.0	90.0(R)
	5	Phenol	94.00	6.989	6.967	(0.931)	7426575	88.2	88.2
	6	bis(2-Chloroethyl)ether	93.00	7.121	7.110	(0.949)	10386785	61.9	61.9(Q)
S	7	2-Chlorophenol-D4	132.00	7.274	7.263	(0.969)	6905915	106	106(R)
	8	2-Chlorophenol	128.00	7.296	7.285	(0.972)	6729401	95.6	95.6
	9	1,3-Dichlorobenzene	146.00	7.472	7.471	(0.996)	3918081	53.3	53.3
	10	1,4-Dichlorobenzene-d4	152.00	7.504	7.504	(1.000)	2063295	40.0	
	11	1,4-Dichlorobenzene	146.00	7.526	7.526	(1.003)	3756933	49.4	49.4
	12	2-Methylphenol	108.00	7.702	7.691	(1.026)	4575537	77.4	77.4
S	13	1,2-Dichlorobenzene-D4	152.00	7.757	7.756	(1.034)	3197806	73.4	73.4(R)
	14	1,2-Dichlorobenzene	146.00	7.779	7.778	(1.037)	3187580	49.9	49.9
	15	2,2'-oxybis(1-Chloropropene)	45.00	7.790	7.778	(1.038)	8718299	70.7	70.7
	16	4-Methylphenol	108.00	7.878	7.866	(1.050)	4905404	77.9	77.9
	17	N-Nitroso-di-n-propylamine	70.00	7.976	7.965	(1.063)	4533390	75.4	75.4
	18	Hexachloroethane	117.00	8.217	8.206	(1.095)	1423090	45.0	45.0
S	19	Nitrobenzene-d5	82.00	8.250	8.239	(0.882)	5804076	78.6	78.6(R)
	20	Nitrobenzene	77.00	8.272	8.261	(0.884)	5394953	75.0	75.0
	21	Isophorone	82.00	8.590	8.567	(0.918)	11628189	77.3	77.3
	22	2,4-Dimethylphenol	107.00	8.667	8.644	(0.926)	6782240	100	100
	23	2-Nitrophenol	139.00	8.744	8.732	(0.934)	4791954	108	108
	24	bis(2-Chloroethoxy)methane	93.00	8.809	8.798	(0.941)	6825294	75.4	75.4
		2,4-Dichlorophenol	162.00	9.084	9.071	(0.971)	6074944	103	103
		1,2,4-Trichlorobenzene	180.00	9.259	9.258	(0.989)	3324961	54.8	54.8
	7	Naphthalene-d8	136.00	9.358	9.346	(1.000)	6937974	40.0	
	28	Naphthalene	128.00	9.391	9.390	(1.004)	9742053	59.4	59.4
	29	4-Chloroaniline	127.00	9.402	9.401	(1.005)	2220760	22.4	22.4
	30	Hexachlorobutadiene	225.00	9.633	9.620	(1.029)	1537055	49.4	49.4

Data File: /chem/aux/msb.i/b012096.b/b9543.d
Report Date: 22-Jan-1996 07:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
	31 4-Chloro-3-methylphenol	107.00	10.137	10.124	(1.083)	6298299	106	106
	32 2-Methylnaphthalene	142.00	10.554	10.551	(1.128)	7046883	63.3	63.3
	33 1-Methylnapthalene	142.00	10.554	10.760	(1.128)	7046883	70.4	~~70.4~~ ND, Rt
	34 Hexachlorocyclopentadiene	237.00	10.950	10.947	(0.870)	992115	51.5	51.5
	35 2,4,6-Trichlorophenol	196.00	11.071	11.057	(0.880)	4612504	110	110
	36 2,4,5-Trichlorophenol	196.00	11.148	11.145	(0.886)	3580818	82.0	82.0
S	37 2-Fluorobiphenyl	172.00	11.203	11.200	(0.890)	9086804	77.0	77.0(R)
	38 2-Chloronaphthalene	162.00	11.478	11.464	(0.912)	7668403	71.8	71.8
	39 2-Nitroaniline	65.00	11.642	11.628	(0.925)	3204452	76.3	76.3
	40 Dimethylphthalate	163.00	11.972	11.957	(0.951)	10484231	73.2	73.2
	41 2,6-Dinitrotoluene	165.00	12.148	12.133	(0.965)	2944474	81.2	81.2
	42 Acenaphthylene	152.00	12.301	12.297	(0.977)	12408322	72.6	72.6
	43 3-Nitroaniline	138.00	12.433	12.418	(0.988)	1620920	43.1	43.1
*	44 Acenaphthene-d10	164.00	12.587	12.583	(1.000)	3691730	40.0	
	45 2,4-Dinitrophenol	184.00	12.642	12.627	(1.004)	1905821	169	169(AQ)
	46 Acenaphthene	153.00	12.664	12.649	(1.006)	6476734	65.2	65.2
	47 4-Nitrophenol	109.00	12.653	12.627	(1.005)	1281211	103	103
	48 2,4-Dinitrotoluene	165.00	12.928	12.912	(1.027)	3962208	81.9	81.9
	49 Dibenzofuran	168.00	12.961	12.956	(1.030)	10858466	70.9	70.9
	Diethylphthalate	149.00	13.357	13.340	(1.061)	10847607	76.5	76.5
	4-Chlorophenyl-phenylether	204.00	13.577	13.571	(1.079)	4747956	76.3	76.3
	Fluorene	166.00	13.654	13.643	(1.085)	8049001	73.0	73.0
	53 4-Nitroaniline	138.00	13.676	13.648	(1.087)	2524024	85.5	85.5
	54 4,6-Dinitro-2-methylphenol	198.00	13.775	13.758	(0.884)	3484029	146	146
	55 N-Nitrosodiphenylamine	169.00	13.808	13.791	(0.886)	6463543	75.3	75.3
S	56 2,4,6-Tribromophenol	330.00	14.171	14.164	(1.126)	2959730	132	132(R)
	57 4-Bromophenyl-phenylether	248.00	14.568	14.559	(0.935)	3092515	76.2	76.2
	58 Hexachlorobenzene	284.00	14.952	14.943	(0.960)	3924800	79.1	79.1
	59 Pentachlorophenol	266.00	15.271	15.261	(0.980)	3000418	140	140
*	60 Phenanthrene-d10	188.00	15.580	15.569	(1.000)	5884256	40.0	
	61 Phenanthrene	178.00	15.635	15.613	(1.004)	12174945	76.2	76.2
	62 Anthracene	178.00	15.724	15.713	(1.009)	12517897	75.5	75.5
	63 Carbazole	167.00	15.999	15.987	(1.027)	12210303	82.6	82.6
	64 Di-n-butylphthalate	149.00	16.658	16.645	(1.069)	15390054	63.6	63.6
	65 Fluoranthene	202.00	18.106	18.101	(1.162)	12848892	76.1	76.1
	66 Benzidine	184.00	18.249	18.244	(0.865)	1150171	21.5	21.5
	67 Pyrene	202.00	18.601	18.585	(0.882)	13115251	81.6	81.6
S	68 Terphenyl-d14	244.00	18.810	18.794	(0.892)	8757691	78.8	78.8(R)
	69 Butylbenzylphthalate	149.00	19.778	19.771	(0.937)	7848194	82.4	82.4
	70 bis(2-Ethylhexyl)phthalate	149.00	20.932	20.923	(0.992)	9832170	84.4	84.4
	71 3,3'-Dichlorobenzidine	252.00	20.921	20.923	(0.992)	1678455	34.1	34.1
	72 Benzo(a)anthracene	228.00	21.065	21.056	(0.998)	10623003	83.1	83.1
*	73 Chrysene-d12	240.00	21.098	21.089	(1.000)	4273357	40.0	
	74 Chrysene	228.00	21.165	21.156	(1.003)	9951395	81.1	81.1
	75 Di-n-octylphthalate	149.00	22.260	22.257	(0.891)	17726753	78.5	78.5
	Benzo(b)fluoranthene	252.00	23.781	23.752	(0.952)	10660735	89.6	89.6
	Benzo(k)fluoranthene	252.00	23.847	23.829	(0.955)	10139500	75.0	75.0
	78 Benzo(a)pyrene	252.00	24.817	24.786	(0.993)	9331255	84.8	84.8
*	79 Perylene-d12	264.00	24.983	24.974	(1.000)	4117050	40.0	

Data File: /chem/aux/msb.i/b012096.b/b9543.d
Report Date: 22-Jan-1996 07:07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
80 Dibenzo(a,h)anthracene	278.00	29.319	29.277	(1.174)	7074996	83.7	83.7
81 Indeno(1,2,3-cd)pyrene	276.00	29.330	29.300	(1.174)	8512205	81.4	81.4
82 Benzo(g,h,i)perylene	276.00	30.639	30.597	(1.226)	6547213	77.9	77.9

QC Flag Legend

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

OHM Remediation Services Corp.
A Subsidiary of OHM Corporation

ANALYTICAL DIVISION

Laboratory Analysis

Report(s) #619550 VOLUME III OF III

Client: OHM Remediation Services Corp.
Southern Region (Norcross, GA)

Attn: Jim Dunn

Project: 17418N - Camp Lejeune, North Carolina

Sample(s) Received: January 18, 1996 **Order Received:** January 18, 1996

This report is "PROPRIETARY AND CONFIDENTIAL" and delivered to, and intended for the exclusive use of the above named client only. OHM Remediation Services Corp., Analytical Division, assumes no responsibility or liability for the reliance hereon or use hereof by anyone other than the above named client.

Reviewed and Approved by: Joseph A. Hnatow ***Date:*** *March 4, 1996*
Joseph A. Hnatow, Laboratory Manager

16406 U.S. Route 224 East ▪ P.O. Box 551 ▪ Findlay, OH 45839-0551 ▪ 419-423-3526

ORGANICS

Pesticides/PCBs by GC

2F
SOIL PESTICIDE SURROGATE RECOVERY

0467

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

b Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

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 A	95		96				0
02	PSPK01 A	95		98				0
03	CLJ78CS001MSD	108		120				0
04	CLJ78CS001	122		124				0
05	CLJ78CS002	106		122				0
06	CLJ78CS003	100		130				0
07	CLJ78CS004	112		118				0
08	CLJ78CS005	96		118				0
09	CLJ78DS005	96		116				0
10	CLJ78CS001MS	96		120				0

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

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

2E
WATER PESTICIDE SURROGATE RECOVERY

0468

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

GC Column(1): DB 608 ID: 0.53 (mm) GC Column(2): DB 5 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 B	78		82				0
02	PSPK01 B	80		87				0
03	CLJ78RB001	66		44				0
~~04~~	~~CLJ78FB001~~	~~70~~		~~84~~				~~0~~ es
~~05~~	~~CLJ78IW001~~	~~0 *~~		~~0 *~~				~~2~~ es

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

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

3F
SOIL PESTICIDE MATRIX SPIKE RECOVERY

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix Spike - EPA Sample No.: CLJ78CS001

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Alpha-BHC	200	0	180	90	30-130
Beta-BHC	200	0	220	110	30-130
Delta-BHC	200	0	180	90	30-130
Heptachlor	200	0	200	100	35-130
Aldrin	200	0	190	95	34-132
Heptachlor epoxide	200	0	210	105	30-130
Endosulfan I	200	0	220	110	30-130
Dieldrin	200	0	230	115	31-134
4,4'-DDE	200	260	460	100	30-130
Endrin	200	0	220	110	42-139
Endosulfan II	200	0	190	95	30-130
4,4'-DDD	200	1700	1800	50	30-130
Endosulfan sulfate	200	0	190	95	30-130
4,4'-DDT	200	500	690	95	23-134
Methoxychlor	200	0	240	120	30-130
Endrin ketone	200	0	210	105	30-130
Endrin aldehyde	200	0	160	80	30-130
alpha-Chlordane	200	28	240	106	30-130
gamma-Chlordane	200	0	210	105	30-130
Gamma-BHC (Lindane)	200	0	210	105	46-127
Chlordane	390	28	440	106	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 21 outside limits

COMMENTS:

3F
SOIL PESTICIDE MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

b Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix Spike - EPA Sample No.: CLJ78CS001

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Alpha-BHC	200	190	95	5	20	30-130
Beta-BHC	200	230	115	4	20	30-130
Delta-BHC	200	180	90	0	20	30-130
Heptachlor	200	220	110	10	31	35-130
Aldrin	200	200	100	5	43	34-132
Heptachlor epoxide	200	220	110	5	20	30-130
Endosulfan I	200	220	110	0	20	30-130
Dieldrin	200	220	110	4	38	31-134
4,4'-DDE	200	380	60	50 *	20	30-130
Endrin	200	230	115	4	45	42-139
Endosulfan II	200	210	105	10	20	30-130
4,4'-DDD	200	1300	0 *	32 *	20	30-130
Endosulfan sulfate	200	200	100	5	20	30-130
4,4'-DDT	200	550	25	117 *	50	23-134
Methoxychlor	200	260	130	8	20	30-130
Endrin ketone	200	220	110	5	20	30-130
ndrin aldehyde	200	180	90	12	20	30-130
alpha-Chlordane	200	240	106	0	20	30-130
gamma-Chlordane	200	210	105	0	20	30-130
Gamma-BHC (Lindane)	200	220	110	5	50	46-127
Chlordane	400	450	106	.1	20	30-130

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

* Values outside of QC limits

RPD: 3 out of 21 outside limits
Spike Recovery: 1 out of 21 outside limits

MENTS:

3F
SOIL PESTICIDE BLANK SPIKE RECOVERY

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

b Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix Spike - EPA Sample No.: PSPK01A

COMPOUND	SPIKE ADDED (ug/Kg)	BLANK CONCENTRATION (ug/Kg)	BS CONCENTRATION (ug/Kg)	BS % REC #	QC LIMITS REC.
Alpha-BHC	170	0	150	88	30-130
Beta-BHC	170	0	160	94	30-130
Delta-BHC	170	0	150	88	30-130
Heptachlor	170	0	160	94	35-130
Aldrin	170	0	170	100	34-132
Heptachlor epoxide	170	0	170	100	30-130
Endosulfan I	170	0	170	100	30-130
Dieldrin	170	0	180	106	31-134
4,4'-DDE	170	0	180	106	30-130
Endrin	170	0	180	106	42-139
Endosulfan II	170	0	160	94	30-130
4,4'-DDD	170	0	180	106	30-130
Endosulfan sulfate	170	0	160	94	30-130
4,4'-DDT	170	0	190	112	23-134
Methoxychlor	170	0	170	100	30-130
Endrin ketone	170	0	170	100	30-130
Endrin aldehyde	170	0	120	71	30-130
alpha-Chlordane	170	0	160	94	30-130
gamma-Chlordane	170	0	160	94	30-130
Gamma-BHC (Lindane)	170	0	170	100	46-127
Chlordane	330	0	320	97	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 21 outside limits

COMMENTS:

3E
WATER PESTICIDE BLANK SPIKE RECOVERY

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: NA Case No.: 17418N SAS No.: NA SDG No.: CLJ78CS001

Matrix Spike - EPA Sample No.: PSPK01B

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC LIMITS REC.
Alpha-BHC	1.0	0	.87	87	30-130
Beta-BHC	1.0	0	.91	91	30-130
Delta-BHC	1.0	0	.85	85	30-130
Heptachlor	1.0	0	.79	79	40-131
Aldrin	1.0	0	.82	82	40-120
Heptachlor epoxide	1.0	0	.91	91	30-130
Endosulfan I	1.0	0	.91	91	30-130
Dieldrin	1.0	0	.95	95	52-126
4,4'-DDE	1.0	0	.99	99	30-130
Endrin	1.0	0	.97	97	56-121
Endosulfan II	1.0	0	.93	93	30-130
4,4'-DDD	1.0	0	.97	97	30-130
Endosulfan sulfate	1.0	0	.93	93	30-130
4,4'-DDT	1.0	0	.95	95	38-127
Methoxychlor	1.0	0	.84	84	30-130
Endrin ketone	1.0	0	.95	95	30-130
Endrin aldehyde	1.0	0	.84	84	30-130
alpha-Chlordane	1.0	0	.93	93	30-130
gamma-Chlordane	1.0	0	.91	91	30-130
Gamma-BHC (Lindane)	1.0	0	.95	95	56-120
Chlordane	2.0	0	1.8	90	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 21 outside limits

COMMENTS:

4B
SEMIVOLATILE METHOD BLANK SUMMARY

0473 EPA SAMPLE NO.

PBLK01A

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

b Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Lab File ID: ZF2363 Lab Sample ID: N2P60120P

Instrument ID: EZ 2 Date Extracted: 01/18/96

Matrix: (soil/water) SOIL Date Analyzed: 01/19/96

Level: (low/med) _____ Time Analyzed: 18:58

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	CLJ78CS001	JP2491P	ZF2367	01/19/96
02	CLJ78CS002	JP2492P	ZF2368	01/19/96
03	CLJ78CS003	JP2493P	ZF2369	01/19/96
04	CLJ78CS004	JP2494P	ZF2370	01/19/96
05	CLJ78CS005	JP2495P	ZF2371	01/19/96
06	CLJ78DS005	JP2496P	ZF2372	01/20/96
07	CLJ78CS001MSD	JP2491PR	ZF2366	01/19/96
08	PSPK01A	N2P60120PS	ZF2364	01/19/96
09	CLJ78CS001MS	JP2491PS	ZF2365	01/19/96

COMMENTS:

4B
SEMIVOLATILE METHOD BLANK SUMMARY 0474

EPA SAMPLE NO.

PBLK01 B

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: NA Case No.: 17418N SAS No.: NA SDG No.: CLJ78CS001

Lab File ID: ZF2398 Lab Sample ID: N1P60124P

Instrument ID: GC/MS Z Date Extracted: 01/19/96

Matrix: (soil/water) WATER Date Analyzed: 01/22/96

Level: (low/med) _____ Time Analyzed: 14:27

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	
01	CLJ78RB001	JP2497P	ZF2400	01/22/96	
~~02~~	~~CLJ78FB001~~	~~JP2542P~~	~~ZF2401~~	~~01/22/96~~	
~~03~~	~~CLJ78IW001~~	~~JP2541P~~	~~ZF2407~~	~~01/22/96~~	
~~04~~	~~CLJ78IW001~~	~~JP2541P~~	~~ZF2413~~	~~01/23/96~~	
05	PSPK01 B	N1P60124PS	ZF2399	01/22/96	

COMMENTS:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET 0475

EPA SAMPLE NO.

CLJ78CS001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

b Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2491P

Sample wt/vol: 30.9 (g/mL) G Lab File ID: ZF2367

% Moisture: 18 decanted: (Y/N) N Date Received: 01/18/96

Extraction: (SepF/Cont/Sonc) 3540 Date Extracted: 01/18/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

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

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

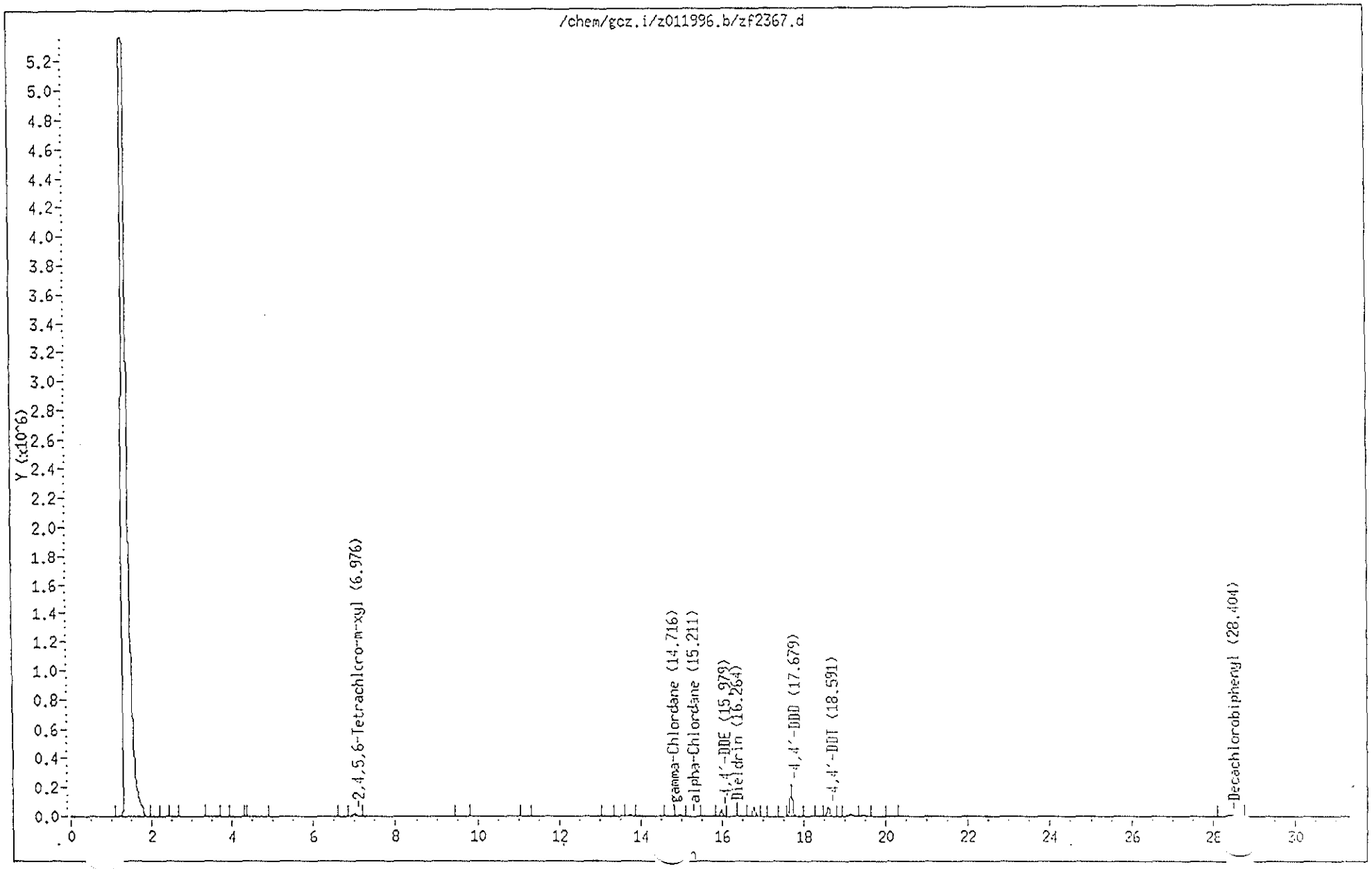
CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	20	U
319-85-7	beta-BHC	20	U
319-86-8	delta-BHC	20	U
76-44-8	Heptachlor	20	U
309-00-2	Aldrin	20	U
1024-57-3	Heptachlor epoxide	20	U
959-98-8	Endosulfan I	20	U
60-57-1	Dieldrin	20	U
72-55-9	4,4'-DDE	260	
72-20-8	Endrin	20	U
33213-65-9	Endosulfan II	20	U
72-54-8	4,4'-DDD	1700	
1031-07-8	Endosulfan sulfate	20	U
50-29-3	4,4'-DDT	500	
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	20	U
7421-93-4	Endrin aldehyde	20	U
8001-35-2	Toxaphene	390	U
12674-11-2	Aroclor-1016	200	U
11104-28-2	Aroclor-1221	200	U
11141-16-5	Aroclor-1232	200	U
53469-21-9	Aroclor-1242	200	U
12672-29-6	Aroclor-1248	200	U
11097-69-1	Aroclor-1254	200	U
11096-82-5	Aroclor-1260	200	U
57-74-9	Chlordane	28	J
58-89-9	Gamma-BHC (Lindane)	20	U

Data File: /chem/gcz.i/z011996.b/zf2367.d
Date : 19-JAN-96 21:17
Client ID:
Sample Info: jp2491p,n2p60120

Instrument: gcz.i

Operator: art
Column diameter: 0.53

Column phase: DB-608



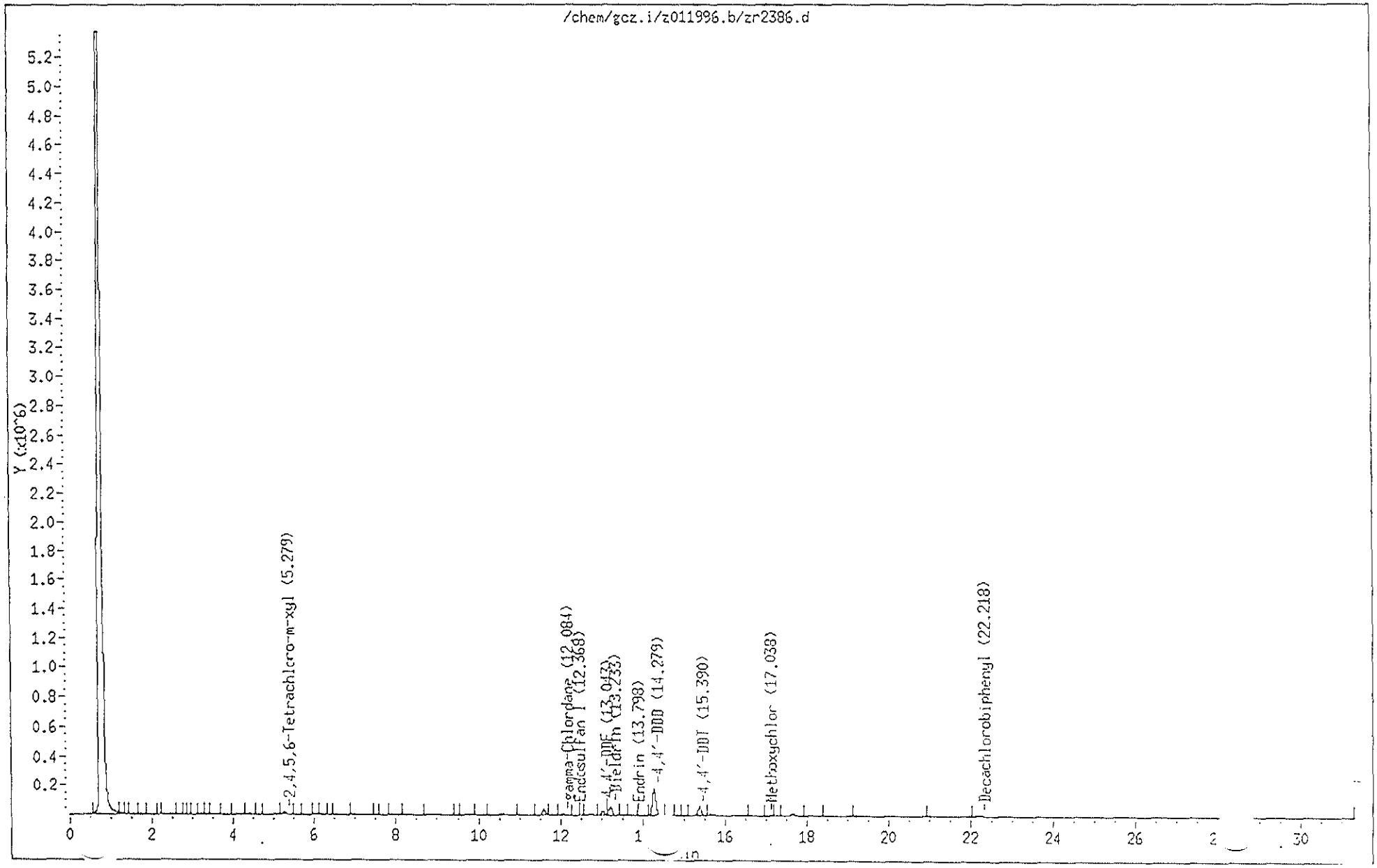
04477

Data File: /chem/gcz.i/z011996.b/zr2386.d
Date : 19-JAN-96 21:52
Client ID:
Sample Info: jp2491p,n2p60120

Column phase: DB-5

Instrument: gcz.i

Operator: art
Column diameter: 0.53



Data File: /chem/gcz.i/z011996.b/zf2367.d
Report Date: 20-Jan-1996 09:50

OHM Analytical Division

Data file : /chem/gcz.i/z011996.b/zf2367.d
Lab Smp Id:
Inj Date : 19-JAN-96 21:17
Operator : art Inst ID: gcz.i
Smp Info : jp2491p,n2p60120
Misc Info : jp2491p,n2p60120,g2,1,10
Comment :
Method : /chem/gcz.i/z011996.b/011996_8080_608.m
Meth Date : 20-Jan-1996 09:41 Quant Type: ESTD
Cal Date : 19-JAN-96 16:03 Cal File: zf2358.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
2,4,5,6-Tetrachloro-m-xylene	6.976	6.967	0.009	439150	0.0610	0.0610(R)
9 gamma-Chlordane	14.716	14.710	0.006	30290	0.00358	0.~~00358~~.
10 alpha-Chlordane	15.211	15.207	0.004	112193	0.0143	0.0143
12 4,4'-DDE	15.979	15.974	0.005	950469	0.130	0.130
13 Dieldrin	16.264	16.249	0.015	107254	0.0142	~~0.0142~~
15 4,4'-DDD	17.679	17.674	0.005	4905483	0.866	0.866
17 4,4'-DDT	18.591	18.587	0.004	1458952	0.256	0.256
S 22 Decachlorobiphenyl	28.404	28.397	0.007	498201	0.0620	0.0620(R)
M 23 Chlordane				142483	0.0175	0.0175

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /chem/gcz.i/z011996.b/zr2386.d
Report Date: 20-Jan-1996 09:53

OHM Analytical Division

Data file : /chem/gcz.i/z011996.b/zr2386.d
Lab Smp Id:
Inj Date : 19-JAN-96 21:52
Operator : art Inst ID: gcz.i
Smp Info : jp2491p,n2p60120
Misc Info : jp2491p,n2p60120
Comment :
Method : /chem/gcz.i/z011996.b/011996_8080_db5.m
Meth Date : 20-Jan-1996 09:43 Quant Type: ESTD
Cal Date : 19-JAN-96 16:38 Cal File: zr2377.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
	1 2,4,5,6-Tetrachloro-m-xylene	5.279	5.279	0.000	460560	0.0621	0.0621(R)
	2 Alpha-BHC	Compound Not Detected.					
	3 Beta-BHC	Compound Not Detected.					
	4 Gamma-BHC (Lindane)	Compound Not Detected.					
	5 Delta-BHC	Compound Not Detected.					
	6 Heptachlor	Compound Not Detected.					
	7 Aldrin	Compound Not Detected.					
	8 Heptachlor epoxide	Compound Not Detected.					
	9 gamma-Chlordane	12.084	12.021	0.063	310955	0.0340	0.0340
	10 Endosulfan I	12.368	12.406	-0.038	134149	0.0168	0.0168
M	11 alpha-Chlordane				134149	0.0168	0.0168
	12 4,4'-DDE	13.043	13.045	-0.002	720160	0.0935	0.0935
	13 Dieldrin	13.233	13.205	0.028	1692977	0.190	0.190
	14 Endrin	13.798	13.815	-0.017	102888	0.0152	0.0152
	15 Endosulfan II	Compound Not Detected.					
	16 4,4'-DDD	14.279	14.278	0.001	5475914	0.848	0.848
	17 Endrin aldehyde	Compound Not Detected.					
	18 Endosulfan sulfate	Compound Not Detected.					
	19 4,4'-DDT	15.390	15.389	0.001	1845660	0.287	0.287
	20 Endrin ketone	Compound Not Detected.					
	21 Methoxychlor	17.038	17.035	0.003	87247	0.0249	0.0249
S	22 Decachlorobiphenyl	22.218	22.219	-0.001	2272412	0.253	0.253(R)

Flag Legend

R - Spike/Surrogate failed recovery limits.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET 0480

EPA SAMPLE NO.

CLJ78CS002

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2492P

Sample wt/vol: 30.4 (g/mL) G Lab File ID: ZF2368

% Moisture: 15 decanted: (Y/N) N Date Received: 01/18/96

Extraction: (SepF/Cont/Sonc) 3540 Date Extracted: 01/18/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	19	U
319-85-7	beta-BHC	19	U
319-86-8	delta-BHC	19	U
76-44-8	Heptachlor	19	U
309-00-2	Aldrin	19	U
1024-57-3	Heptachlor epoxide	19	U
959-98-8	Endosulfan I	19	U
60-57-1	Dieldrin	19	U
72-55-9	4,4'-DDE	9.7	J
72-20-8	Endrin	19	U
33213-65-9	Endosulfan II	19	U
72-54-8	4,4'-DDD	19	U
1031-07-8	Endosulfan sulfate	19	U
50-29-3	4,4'-DDT	19	U
72-43-5	Methoxychlor	19	U
53494-70-5	Endrin ketone	19	U
7421-93-4	Endrin aldehyde	19	U
8001-35-2	Toxaphene	390	U
12674-11-2	Aroclor-1016	190	U
11104-28-2	Aroclor-1221	190	U
11141-16-5	Aroclor-1232	190	U
53469-21-9	Aroclor-1242	190	U
12672-29-6	Aroclor-1248	190	U
11097-69-1	Aroclor-1254	190	U
11096-82-5	Aroclor-1260	190	U
57-74-9	Chlordane	190	U
58-89-9	Gamma-BHC (Lindane)	19	U

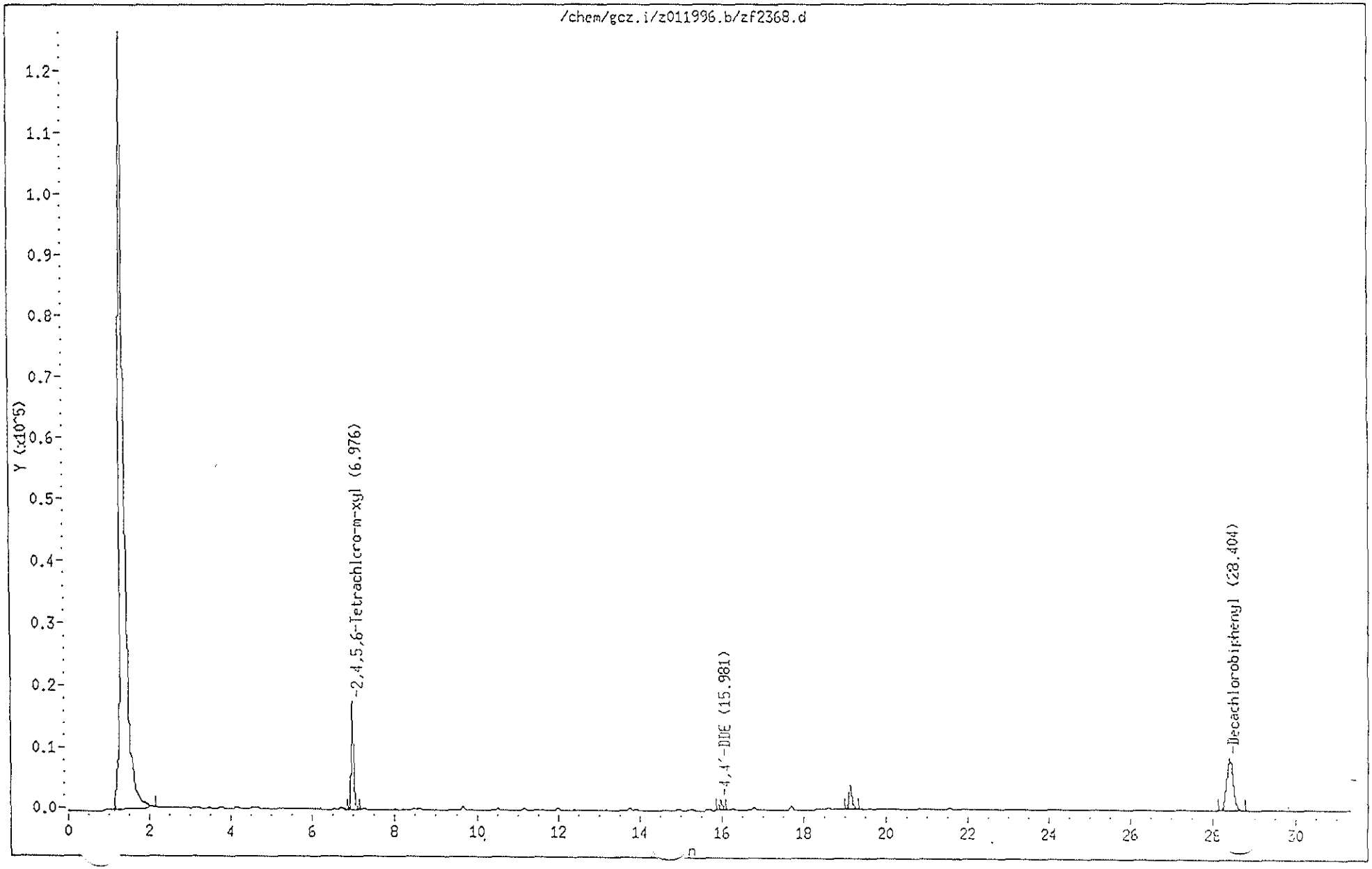
0481

Data File: /chem/gcz.i/z011996.b/zf2368.d
Date : 19-JAN-96 21:52
Client ID:
Sample Info: jp2492p,n2p60120

Column phase: DB-608

Instrument: gcz.i

Operator: art
Column diameter: 0.53



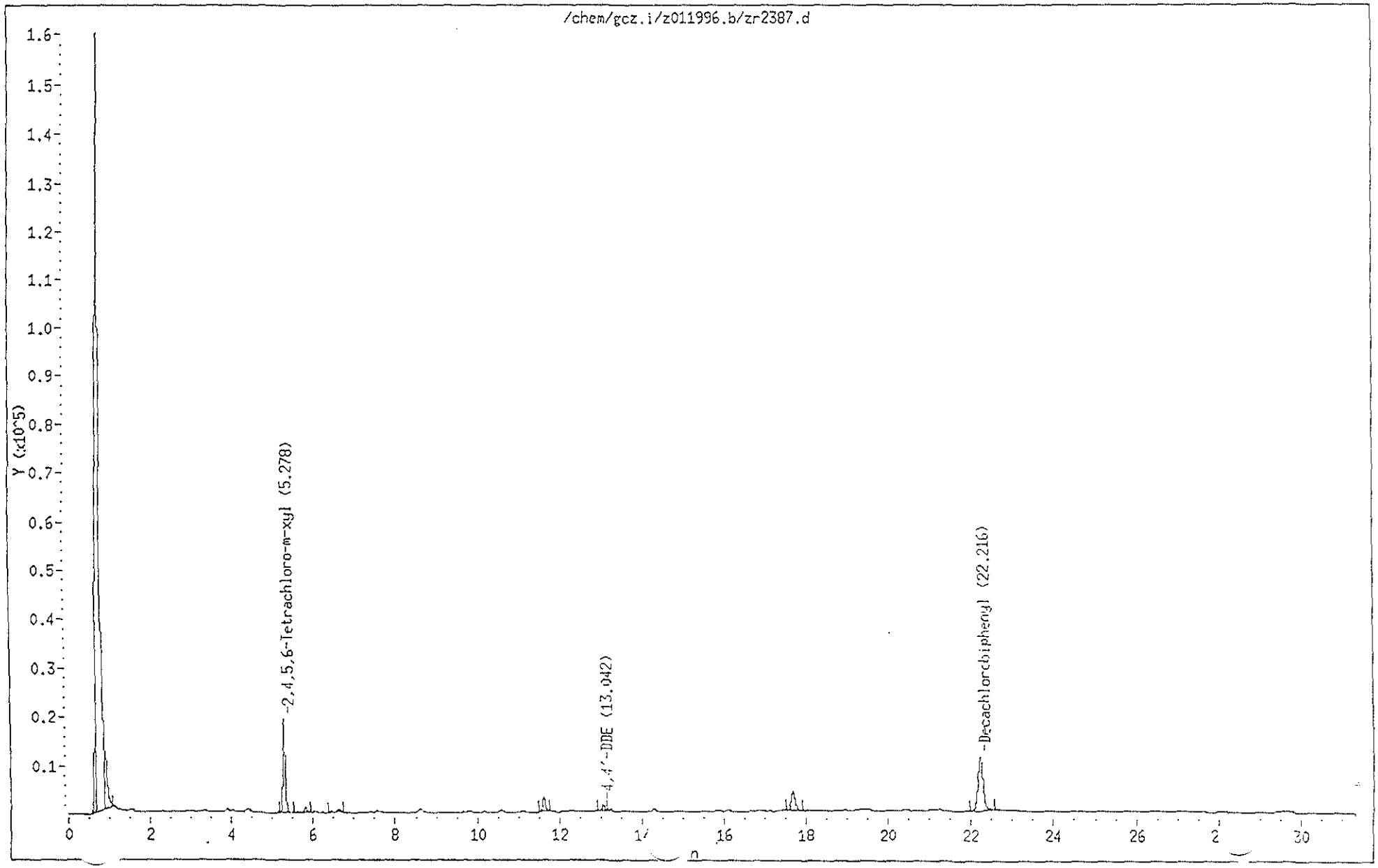
04182

Data File: /chem/gcz.i/z011996.b/zr2387.d
Date : 19-JAN-96 22:27
Client ID:
Sample Info: jp2492p,n2p60120

Instrument: gcz.i

Operator: art
Column diameter: 0.53

Column phase: DB-5



Data File: /chem/gcz.i/z011996.b/zf2368.d
Report Date: 20-Jan-1996 09:50

OHM Analytical Division

Data file : /chem/gcz.i/z011996.b/zf2368.d
Lab Smp Id:
Inj Date : 19-JAN-96 21:52
Operator : art Inst ID: gcz.i
Smp Info : jp2492p,n2p60120
Misc Info : jp2492p,n2p60120,g2,1,10
Comment :
Method : /chem/gcz.i/z011996.b/011996_8080_608.m
Meth Date : 20-Jan-1996 09:41 Quant Type: ESTD
Cal Date : 19-JAN-96 16:03 Cal File: zf2358.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
1 2,4,5,6-Tetrachloro-m-xylene	6.976	6.967	0.009	383507	0.0532	0.0532(R)
12 4,4'-DDE	15.981	15.974	0.007	37937	0.00518	0.00518
$ 22 Decachlorobiphenyl	28.404	28.397	0.007	489973	0.0610	0.0610(R)

QC Flag Legend

GK 1/31/96

R - Spike/Surrogate failed recovery limits.

Data File: /chem/gcz.i/z011996.b/zr2387.d
Report Date: 20-Jan-1996 09:53

OHM Analytical Division

Data file : /chem/gcz.i/z011996.b/zr2387.d
Lab Smp Id:
Inj Date : 19-JAN-96 22:27
Operator : art Inst ID: gcz.i
Smp Info : jp2492p,n2p60120
Misc Info : jp2492p,n2p60120
Comment :
Method : /chem/gcz.i/z011996.b/011996_8080_db5.m
Meth Date : 20-Jan-1996 09:43 Quant Type: ESTD
Cal Date : 19-JAN-96 16:38 Cal File: zr2377.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

						CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/ml)
	Compounds	RT	EXP RT	DLT RT	RESPONSE		
	1 2,4,5,6-Tetrachloro-m-xylene	5.278	5.279	-0.001	384993	0.0519	0.0519(R)
	2 Alpha-BHC	Compound Not Detected.					
	3 Beta-BHC	Compound Not Detected.					
	4 Gamma-BHC (Lindane)	Compound Not Detected.					
	5 Delta-BHC	Compound Not Detected.					
	6 Heptachlor	Compound Not Detected.					
	7 Aldrin	Compound Not Detected.					
	8 Heptachlor epoxide	Compound Not Detected.					
	9 gamma-Chlordane	Compound Not Detected.					
	10 Endosulfan I	Compound Not Detected.					
M	11 alpha-Chlordane	Compound Not Detected.					
	12 4,4'-DDE	13.042	13.045	-0.003	31912	0.00414	0.00414
	13 Dieldrin	Compound Not Detected.					
	14 Endrin	Compound Not Detected.					
	15 Endosulfan II	Compound Not Detected.					
	16 4,4'-DDD	Compound Not Detected.					
	17 Endrin aldehyde	Compound Not Detected.					
	18 Endosulfan sulfate	Compound Not Detected.					
	19 4,4'-DDT	Compound Not Detected.					
	20 Endrin ketone	Compound Not Detected.					
	21 Methoxychlor	Compound Not Detected.					
S	22 Decachlorobiphenyl	22.216	22.219	-0.003	485028	0.0540	0.0540(R)

Flag Legend

R - Spike/Surrogate failed recovery limits.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET 0485

EPA SAMPLE NO.

CLJ78CS003

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2493P

Sample wt/vol: 30.9 (g/mL) G Lab File ID: ZF2369

% Moisture: 14 decanted: (Y/N) N Date Received: 01/18/96

Extraction: (SepF/Cont/Sonc) 3540 Date Extracted: 01/18/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	19	U
319-85-7	beta-BHC	19	U
319-86-8	delta-BHC	19	U
76-44-8	Heptachlor	19	U
309-00-2	Aldrin	19	U
1024-57-3	Heptachlor epoxide	19	U
959-98-8	Endosulfan I	19	U
60-57-1	Dieldrin	19	U
72-55-9	4,4'-DDE	81	
72-20-8	Endrin	19	U
33213-65-9	Endosulfan II	19	U
72-54-8	4,4'-DDD	230	
1031-07-8	Endosulfan sulfate	19	U
50-29-3	4,4'-DDT	47	
72-43-5	Methoxychlor	19	U
53494-70-5	Endrin ketone	19	U
7421-93-4	Endrin aldehyde	19	U
8001-35-2	Toxaphene	380	U
12674-11-2	Aroclor-1016	190	U
11104-28-2	Aroclor-1221	190	U
11141-16-5	Aroclor-1232	190	U
53469-21-9	Aroclor-1242	190	U
12672-29-6	Aroclor-1248	190	U
11097-69-1	Aroclor-1254	190	U
11096-82-5	Aroclor-1260	190	U
57-74-9	Chlordane	15	J
58-89-9	Gamma-BHC (Lindane)	19	U

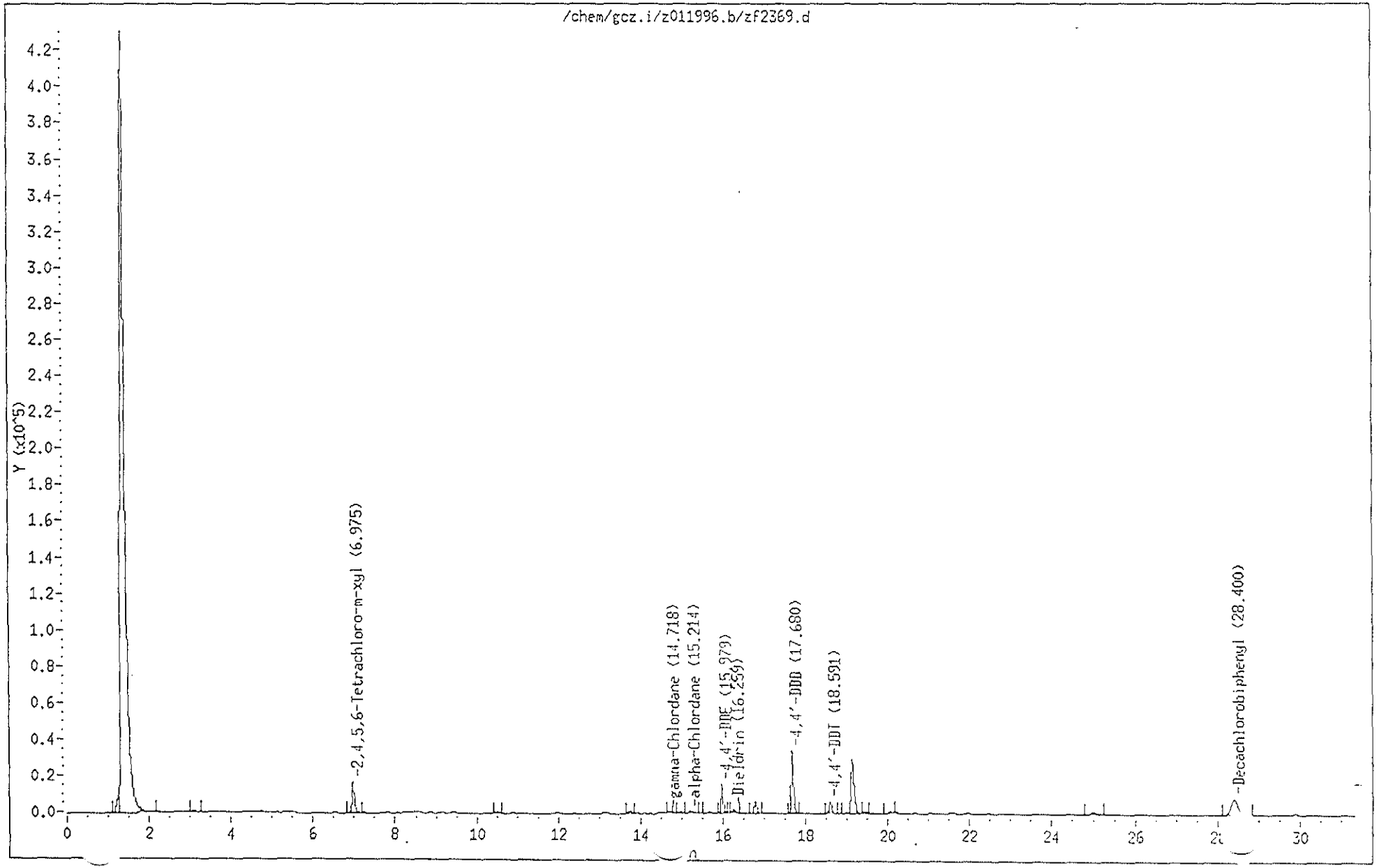
0486

Data File: /chem/gcz.i/z011996.b/zf2369.d
Date : 19-JAN-96 22:27
Client ID:
Sample Info: jp2493p,n2p60120

Column phase: DB-608

Instrument: gcz.i

Operator: art
Column diameter: 0.53



0487

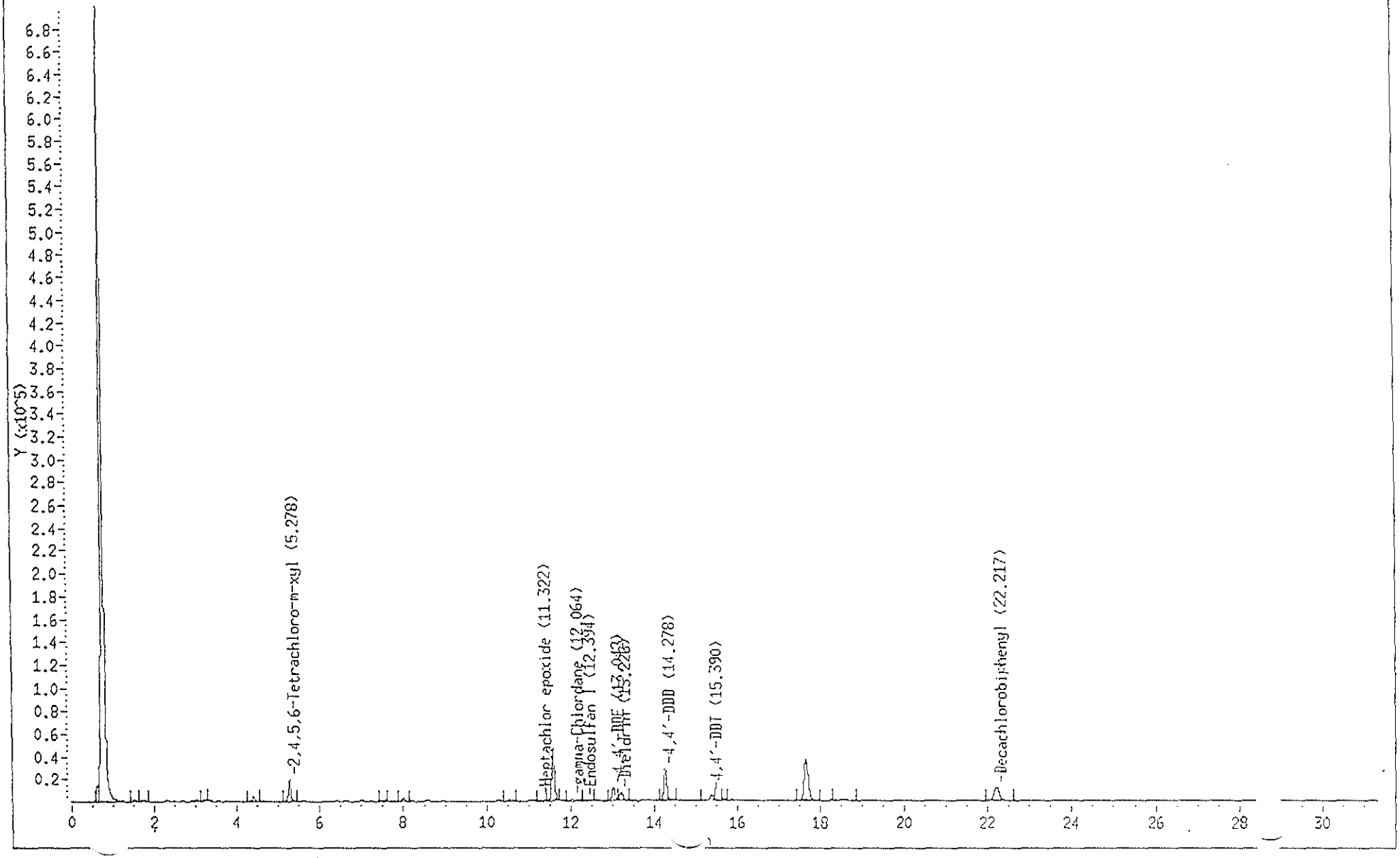
Data File: /chem/gcz.i/z011996.b/zr2388.d
Date : 19-JAN-96 23:02
Client ID:
Sample Info: jp2493p,n2p60120

Column phase: DB-5

Instrument: gcz.i

Operator: art
Column diameter: 0.53

/chem/gcz.i/z011996.b/zr2388.d



Data File: /chem/gcz.i/z011996.b/zf2369.d
Report Date: 20-Jan-1996 09:50

OHM Analytical Division

Data file : /chem/gcz.i/z011996.b/zf2369.d
Lab Smp Id:
Inj Date : 19-JAN-96 22:27
Operator : art Inst ID: gcz.i
Smp Info : jp2493p,n2p60120
Misc Info : jp2493p,n2p60120,g2,1,10
Comment :
Method : /chem/gcz.i/z011996.b/011996_8080_608.m
Meth Date : 20-Jan-1996 09:41 Quant Type: ESTD
Cal Date : 19-JAN-96 16:03 Cal File: zf2358.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
S	2,4,5,6-Tetrachloro-m-xylene	6.975	6.967	0.008	357818	0.0497	0.0497(R)
	9 gamma-Chlordane	14.718	14.710	0.008	26794	0.00317	0.00317
	10 alpha-Chlordane	15.214	15.207	0.007	35313	0.00450	0.00450
	12 4,4'-DDE	15.979	15.974	0.005	313116	0.0427	0.0427
	13 Dieldrin	16.259	16.249	0.010	64812	0.00859	0.~~00859~~
	15 4,4'-DDD	17.680	17.674	0.006	685095	0.121	0.121
	17 4,4'-DDT	18.591	18.587	0.004	139495	0.0245	0.0245
S	22 Decachlorobiphenyl	28.400	28.397	0.003	523093	0.0651	0.0651(R)
M	23 Chlordane				62107	0.00762	0.00762

alc
1/30/96

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /chem/gcz.i/z011996.b/zr2388.d
Report Date: 20-Jan-1996 09:53

OHM Analytical Division

Data file : /chem/gcz.i/z011996.b/zr2388.d
Lab Smp Id:
Inj Date : 19-JAN-96 23:02
Operator : art Inst ID: gcz.i
Smp Info : jp2493p,n2p60120
Misc Info : jp2493p,n2p60120
Comment :
Method : /chem/gcz.i/z011996.b/011996_8080_db5.m
Meth Date : 20-Jan-1996 09:43 Quant Type: ESTD
Cal Date : 19-JAN-96 16:38 Cal File: zr2377.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
S	2,4,5,6-Tetrachloro-m-xylene	5.278	5.279	-0.001	369910	0.0499	0.0499(R)
	2 Alpha-BHC	Compound Not Detected.					
	3 Beta-BHC	Compound Not Detected.					
	4 Gamma-BHC (Lindane)	Compound Not Detected.					
	5 Delta-BHC	Compound Not Detected.					
	6 Heptachlor	Compound Not Detected.					
	7 Aldrin	Compound Not Detected.					
	8 Heptachlor epoxide	11.322	11.334	-0.012	21550	0.00270	0.00270
	9 gamma-Chlordane	12.064	12.021	0.043	64093	0.00701	0.00701
	10 Endosulfan I	12.394	12.406	-0.012	52641	0.00659	0.00659
M	11 alpha-Chlordane				52641	0.00659	0.00659
	12 4,4'-DDE	13.042	13.045	-0.003	290955	0.0378	0.0378
	13 Dieldrin	13.226	13.205	0.021	225346	0.0253	0.0253
	14 Endrin	Compound Not Detected.					
	15 Endosulfan II	Compound Not Detected.					
	16 4,4'-DDD	14.278	14.278	0.000	740989	0.115	0.115
	17 Endrin aldehyde	Compound Not Detected.					
	18 Endosulfan sulfate	Compound Not Detected.					
	19 4,4'-DDT	15.390	15.389	0.001	144404	0.0224	0.0224
	20 Endrin ketone	Compound Not Detected.					
	21 Methoxychlor	Compound Not Detected.					
S	22 Decachlorobiphenyl	22.217	22.219	-0.002	498892	0.0555	0.0555(R)

Qf lag Legend

R - Spike/Surrogate failed recovery limits.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

0490 EPA SAMPLE NO.

CLJ78CS004

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2494P

Sample wt/vol: 30.1 (g/mL) G Lab File ID: ZF2370

% Moisture: 17 decanted: (Y/N) N Date Received: 01/18/96

Extraction: (SepF/Cont/Sonc) 3540 Date Extracted: 01/18/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	20	U
319-85-7	beta-BHC	20	U
319-86-8	delta-BHC	20	U
76-44-8	Heptachlor	20	U
309-00-2	Aldrin	20	U
1024-57-3	Heptachlor epoxide	20	U
959-98-8	Endosulfan I	20	U
60-57-1	Dieldrin	20	U
72-55-9	4,4'-DDE	280	
72-20-8	Endrin	8.0	J
33213-65-9	Endosulfan II	20	U
72-54-8	4,4'-DDD	1700	
1031-07-8	Endosulfan sulfate	20	U
50-29-3	4,4'-DDT	750	
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	20	U
7421-93-4	Endrin aldehyde	20	U
8001-35-2	Toxaphene	400	U
12674-11-2	Aroclor-1016	200	U
11104-28-2	Aroclor-1221	200	U
11141-16-5	Aroclor-1232	200	U
53469-21-9	Aroclor-1242	200	U
12672-29-6	Aroclor-1248	200	U
11097-69-1	Aroclor-1254	200	U
11096-82-5	Aroclor-1260	200	U
57-74-9	Chlordane	20	J
58-89-9	Gamma-BHC (Lindane)	20	U

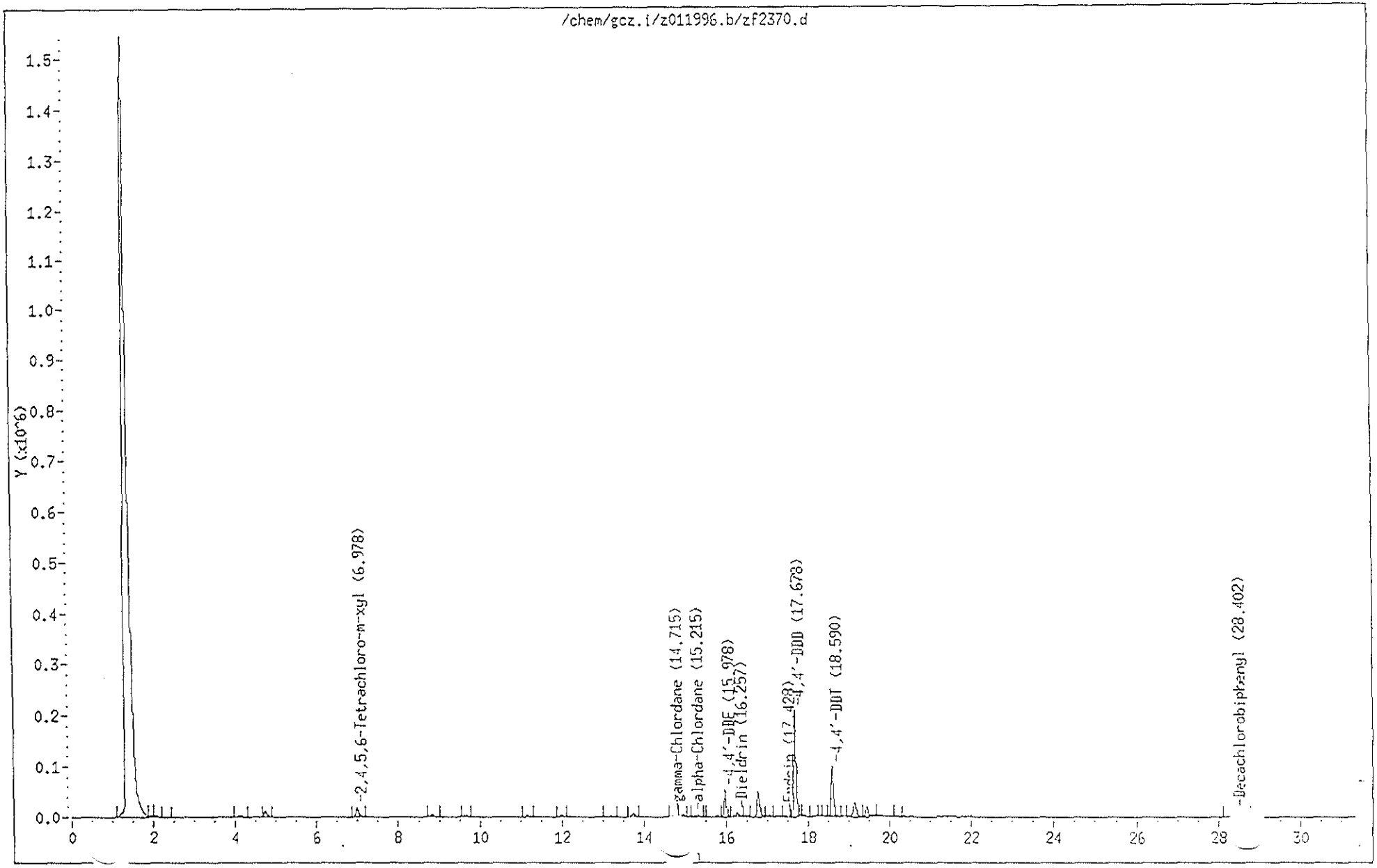
0491

Data File: /chem/gcz.i/z011996.b/zf2370.d
Date : 19-JAN-96 23:02
Client ID:
Sample Info: jp2494p,n2p60120

Column phase: DB-608

Instrument: gcz.i

Operator: art
Column diameter: 0.53



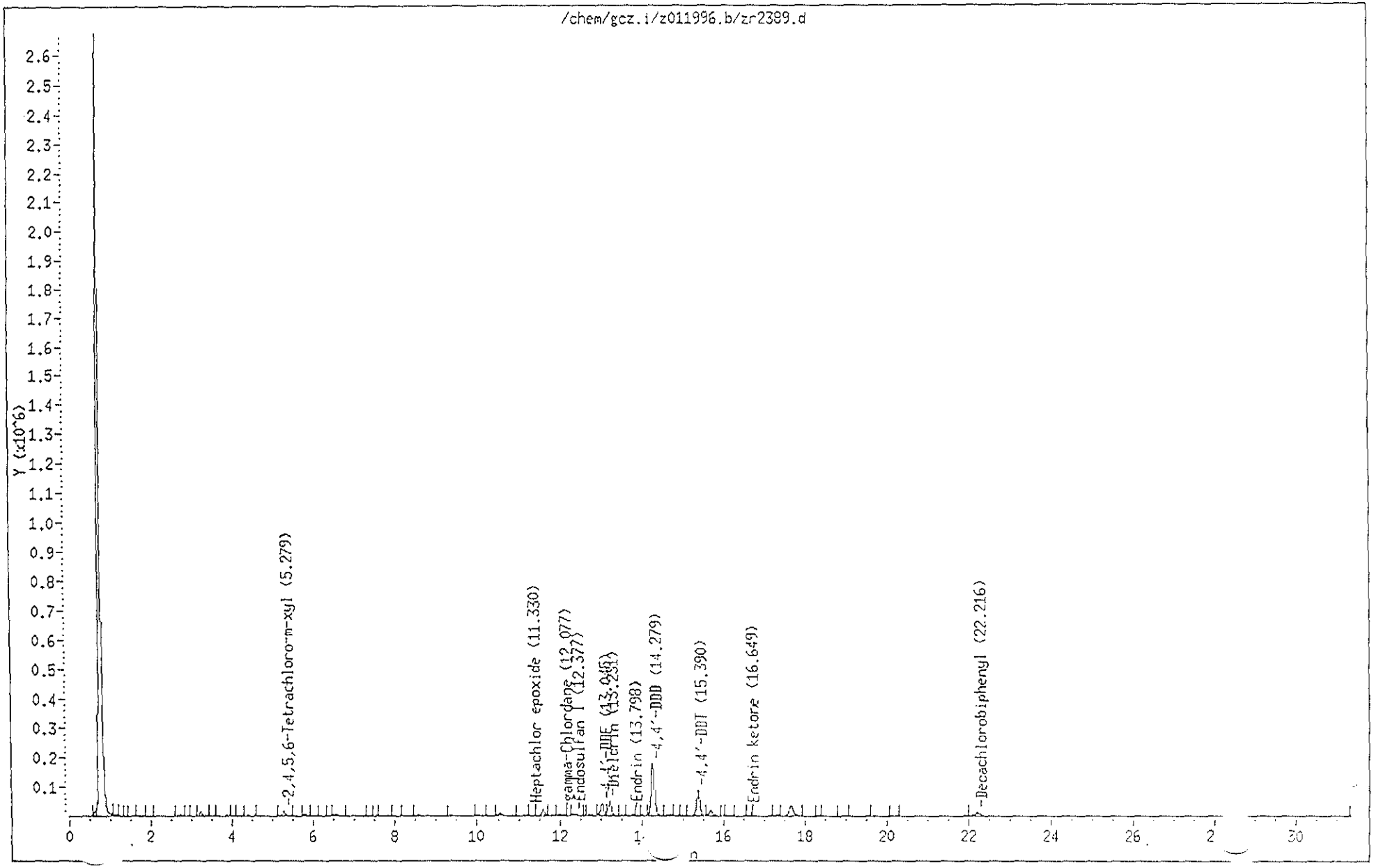
0492

Data File: /chem/gcz.i/z011996.b/zr2389.d
Date : 19-JAN-96 23:37
Client ID:
Sample Info: jp2494p,n2p60120

Column phase: DB-5

Instrument: gcz.i

Operator: art
Column diameter: 0.53



Data File: /chem/gcz.i/z011996.b/zf2370.d
Report Date: 20-Jan-1996 09:50

OHM Analytical Division

Data file : /chem/gcz.i/z011996.b/zf2370.d
Lab Smp Id:
Inj Date : 19-JAN-96 23:02
Operator : art Inst ID: gcz.i
Smp Info : jp2494p,n2p60120
Misc Info : jp2494p,n2p60120,g2,1,10
Comment :
Method : /chem/gcz.i/z011996.b/011996_8080_608.m
Meth Date : 20-Jan-1996 09:41 Quant Type: ESTD
Cal Date : 19-JAN-96 16:03 Cal File: zf2358.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
	1 2,4,5,6-Tetrachloro-m-xylene	6.978	6.967	0.011	405601	0.0563	0.0563(R)
	9 gamma-Chlordane	14.715	14.710	0.005	86125	0.0102	0.~~0102~~ corr
	10 alpha-Chlordane	15.215	15.207	0.008	80194	0.0102	0.0102
	12 4,4'-DDE	15.978	15.974	0.004	1043020	0.142	0.142
	13 Dieldrin	16.257	16.249	0.008	181374	0.0240	0.~~0240~~ corr
	14 Endrin	17.428	17.374	0.054	23015	0.00370	0.00370
	15 4,4'-DDD	17.678	17.674	0.004	4817642	0.851	0.851
	17 4,4'-DDT	18.590	18.587	0.003	2138250	0.376	0.376
S	22 Decachlorobiphenyl	28.402	28.397	0.005	471909	0.0587	0.0587(R)
M	23 Chlordane				166321	0.0204	0.0204

akc 1/30/96

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /chem/gcz.i/z011996.b/zr2389.d
Report Date: 20-Jan-1996 09:54

OHM Analytical Division

Data file : /chem/gcz.i/z011996.b/zr2389.d
Lab Smp Id:
Inj Date : 19-JAN-96 23:37
Operator : art Inst ID: gcz.i
Smp Info : jp2494p,n2p60120
Misc Info : jp2494p,n2p60120
Comment :
Method : /chem/gcz.i/z011996.b/011996_8080_db5.m
Meth Date : 20-Jan-1996 09:43 Quant Type: ESTD
Cal Date : 19-JAN-96 16:38 Cal File: zr2377.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
	1 2,4,5,6-Tetrachloro-m-xylene	5.279	5.279	0.000	429857	0.0580	0.0580(R)
	2 Alpha-BHC	Compound Not Detected.					
	3 Beta-BHC	Compound Not Detected.					
	4 Gamma-BHC (Lindane)	Compound Not Detected.					
	5 Delta-BHC	Compound Not Detected.					
	6 Heptachlor	Compound Not Detected.					
	7 Aldrin	Compound Not Detected.					
	8 Heptachlor epoxide	11.330	11.334	-0.004	43824	0.00549	0.00549
	9 gamma-Chlordane	12.077	12.021	0.056	283733	0.0310	0.0310
	10 Endosulfan I	12.377	12.406	-0.029	205571	0.0258	0.0258
M	11 alpha-Chlordane				205571	0.0258	0.0258
	12 4,4'-DDE	13.045	13.045	0.000	1042940	0.135	0.135
	13 Dieldrin	13.231	13.205	0.026	1411695	0.159	0.159
	14 Endrin	13.798	13.815	-0.017	133055	0.0197	0.0197
	15 Endosulfan II	Compound Not Detected.					
	16 4,4'-DDD	14.279	14.278	0.001	5451065	0.844	0.844
	17 Endrin aldehyde	Compound Not Detected.					
	18 Endosulfan sulfate	Compound Not Detected.					
	19 4,4'-DDT	15.390	15.389	0.001	2548143	0.396	0.396
	20 Endrin ketone	16.649	16.632	0.017	70633	0.00902	0.00902
	21 Methoxychlor	Compound Not Detected.					
S	22 Decachlorobiphenyl	22.216	22.219	-0.003	2724929	0.303	0.303(R)

Flag Legend

R - Spike/Surrogate failed recovery limits.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

0495 EPA SAMPLE NO.

CLJ78CS005

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

b Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2495P

Sample wt/vol: 30.3 (g/mL) G Lab File ID: ZF2371

% Moisture: 16 decanted: (Y/N) N Date Received: 01/18/96

Extraction: (SepF/Cont/Sonc) 3540 Date Extracted: 01/18/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	20	U
319-85-7	beta-BHC	20	U
319-86-8	delta-BHC	20	U
76-44-8	Heptachlor	20	U
309-00-2	Aldrin	20	U
1024-57-3	Heptachlor epoxide	20	U
959-98-8	Endosulfan I	20	U
60-57-1	Dieldrin	20	U
72-55-9	4,4'-DDE	91	
72-20-8	Endrin	20	U
33213-65-9	Endosulfan II	20	U
72-54-8	4,4'-DDD	430	
1031-07-8	Endosulfan sulfate	20	U
50-29-3	4,4'-DDT	65	
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	20	U
7421-93-4	Endrin aldehyde	20	U
8001-35-2	Toxaphene	390	U
12674-11-2	Aroclor-1016	200	U
11104-28-2	Aroclor-1221	200	U
11141-16-5	Aroclor-1232	200	U
53469-21-9	Aroclor-1242	200	U
12672-29-6	Aroclor-1248	200	U
11097-69-1	Aroclor-1254	200	U
11096-82-5	Aroclor-1260	200	U
57-74-9	Chlordane	200	U
58-89-9	Gamma-BHC (Lindane)	20	U

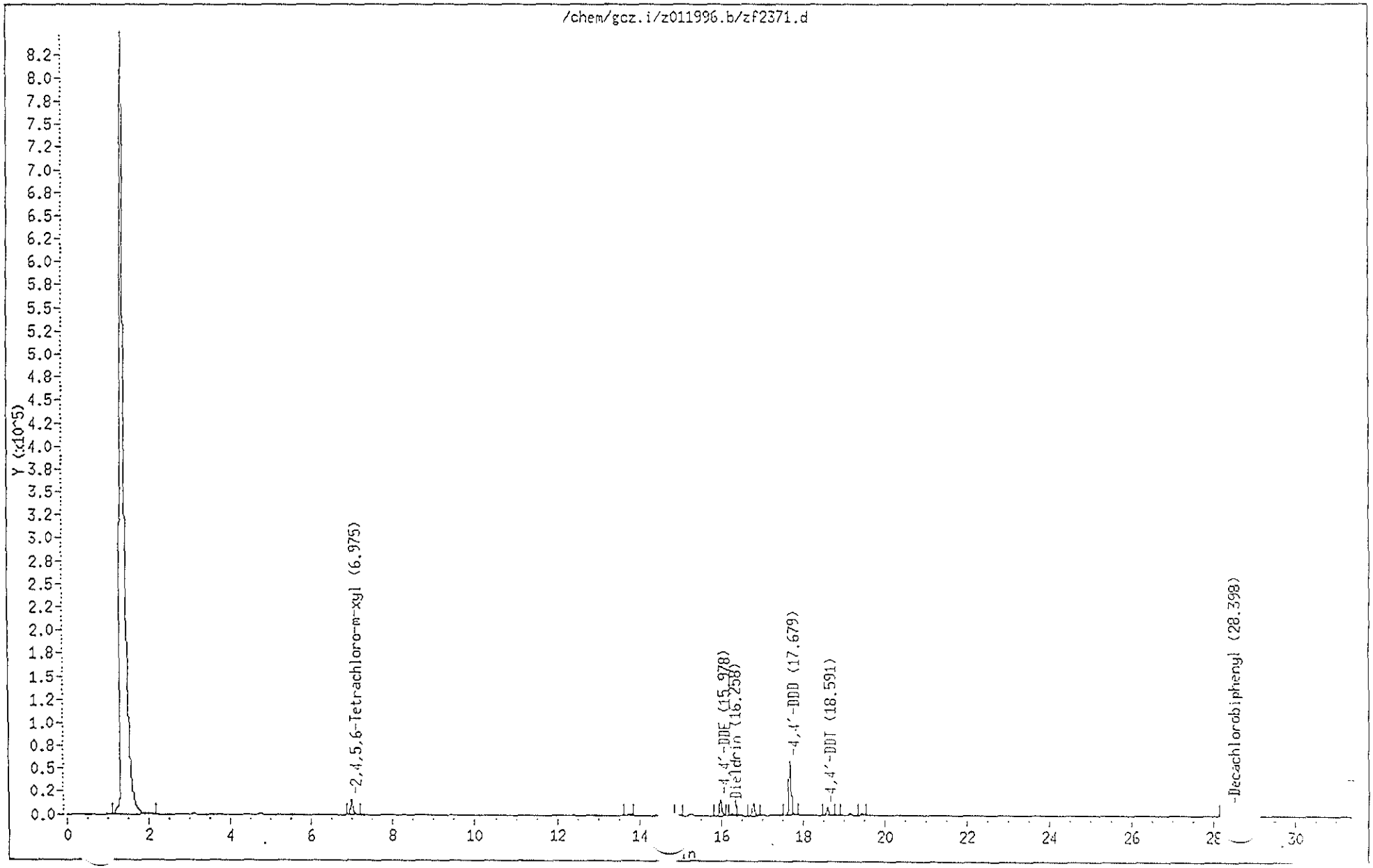
0496

Data File: /chem/gcz.i/z011996.b/zf2371.d
Date : 19-JAN-96 23:37
Client ID:
Sample Info: jp2495p,n2p60120

Column phase: DB-608

Instrument: gcz.i

Operator: art
Column diameter: 0.53



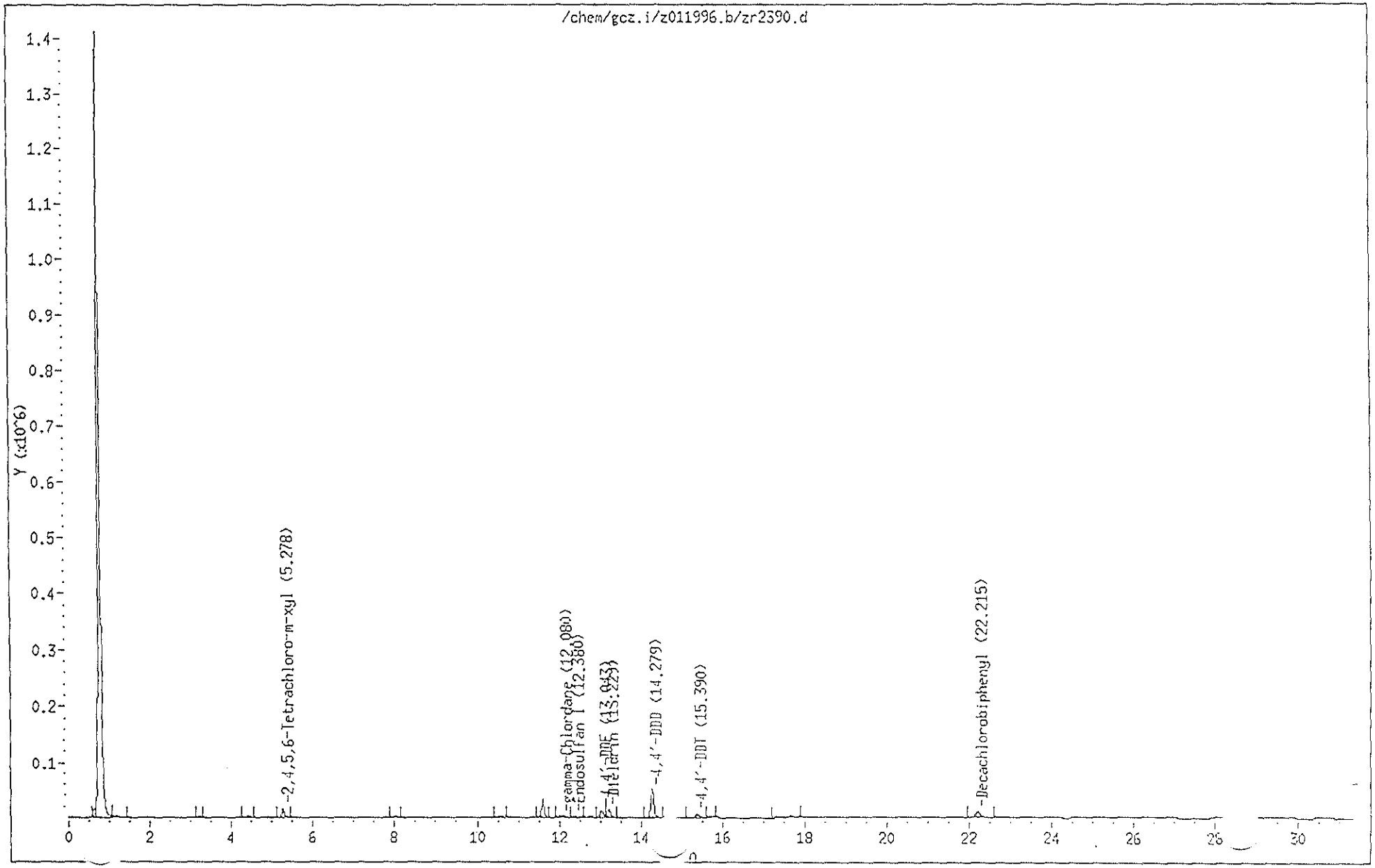
0497

Data File: /chem/gcz.i/z011996.b/zr2390.d
Date : 20-JAN-96 00:11
Client ID:
Sample Info: jp2495p,n2p60120

Column phase: DB-5

Instrument: gcz.i

Operator: art
Column diameter: 0.53



Data File: /chem/gcz.i/z011996.b/zf2371.d
Report Date: 20-Jan-1996 09:50

OHM Analytical Division

Data file : /chem/gcz.i/z011996.b/zf2371.d
Lab Smp Id:
Inj Date : 19-JAN-96 23:37
Operator : art Inst ID: gcz.i
Smp Info : jp2495p,n2p60120
Misc Info : jp2495p,n2p60120,g2,1,10
Comment :
Method : /chem/gcz.i/z011996.b/011996_8080_608.m
Meth Date : 20-Jan-1996 09:41 Quant Type: ESTD
Cal Date : 19-JAN-96 16:03 Cal File: zf2358.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
	2,4,5,6-Tetrachloro-m-xylene	6.975	6.967	0.008	343189	0.0476	0.0476(R)
12	4,4'-DDE	15.978	15.974	0.004	340833	0.0465	0.0465
13	Dieldrin	16.258	16.249	0.009	48665	0.00645	~~0.00645~~
15	4,4'-DDD	17.679	17.674	0.005	1245132	0.220	0.220
17	4,4'-DDT	18.591	18.587	0.004	185051	0.0325	0.0325
5 22	Decachlorobiphenyl	23.398	23.397	0.001	473897	0.0590	0.0590(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /chem/gcz.i/z011996.b/zr2390.d
Report Date: 20-Jan-1996 09:54

OHM Analytical Division

Data file : /chem/gcz.i/z011996.b/zr2390.d
Lab Smp Id:
Inj Date : 20-JAN-96 00:11
Operator : art Inst ID: gcz.i
Smp Info : jp2495p,n2p60120
Misc Info : jp2495p,n2p60120
Comment :
Method : /chem/gcz.i/z011996.b/011996_8080_db5.m
Meth Date : 20-Jan-1996 09:43 Quant Type: ESTD
Cal Date : 19-JAN-96 16:38 Cal File: zr2377.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/ml)
	1 2,4,5,6-Tetrachloro-m-xylene	5.278	5.279	-0.001	356047	0.0480	0.0480(R)
	2 Alpha-BHC	Compound Not Detected.					
	3 Beta-BHC	Compound Not Detected.					
	4 Gamma-BHC (Lindane)	Compound Not Detected.					
	5 Delta-BHC	Compound Not Detected.					
	6 Heptachlor	Compound Not Detected.					
	7 Aldrin	Compound Not Detected.					
	8 Heptachlor epoxide	Compound Not Detected.					
	9 gamma-Chlordane	12.080	12.021	0.059	55528	0.00607	0.00607
	10 Endosulfan I	12.380	12.406	-0.026	31010	0.00388	0.00388
M	11 alpha-Chlordane				31010	0.00388	0.00388
	12 4,4'-DDE	13.043	13.045	-0.002	293604	0.0381	0.0381
	13 Dieldrin	13.229	13.205	0.024	346494	0.0389	0.0389
	14 Endrin	Compound Not Detected.					
	15 Endosulfan II	Compound Not Detected.					
	16 4,4'-DDD	14.279	14.278	0.001	1334571	0.207	0.207
	17 Endrin aldehyde	Compound Not Detected.					
	18 Endosulfan sulfate	Compound Not Detected.					
	19 4,4'-DDT	15.390	15.389	0.001	198119	0.0308	0.0308
	20 Endrin ketone	Compound Not Detected.					
	21 Methoxychlor	Compound Not Detected.					
S	22 Decachlorobiphenyl	22.215	22.219	-0.004	456993	0.0508	0.0508(R)

Qualifiers Legend

R - Spike/Surrogate failed recovery limits.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET 0500

EPA SAMPLE NO.

CLJ78DS005

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2496P

Sample wt/vol: 30.6 (g/mL) G Lab File ID: ZF2372

% Moisture: 16 decanted: (Y/N) N Date Received: 01/18/96

Extraction: (SepF/Cont/Sonc) 3540 Date Extracted: 01/18/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/20/96

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	19	U
319-85-7	beta-BHC	19	U
319-86-8	delta-BHC	19	U
76-44-8	Heptachlor	19	U
309-00-2	Aldrin	19	U
1024-57-3	Heptachlor epoxide	19	U
959-98-8	Endosulfan I	19	U
60-57-1	Dieldrin	19	U
72-55-9	4,4'-DDE	95	
72-20-8	Endrin	19	U
33213-65-9	Endosulfan II	19	U
72-54-8	4,4'-DDD	360	
1031-07-8	Endosulfan sulfate	19	U
50-29-3	4,4'-DDT	60	
72-43-5	Methoxychlor	19	U
53494-70-5	Endrin ketone	19	U
7421-93-4	Endrin aldehyde	19	U
8001-35-2	Toxaphene	390	U
12674-11-2	Aroclor-1016	190	U
11104-28-2	Aroclor-1221	190	U
11141-16-5	Aroclor-1232	190	U
53469-21-9	Aroclor-1242	190	U
12672-29-6	Aroclor-1248	190	U
11097-69-1	Aroclor-1254	190	U
11096-82-5	Aroclor-1260	190	U
57-74-9	Chlordane	14	J
58-89-9	Gamma-BHC (Lindane)	19	U

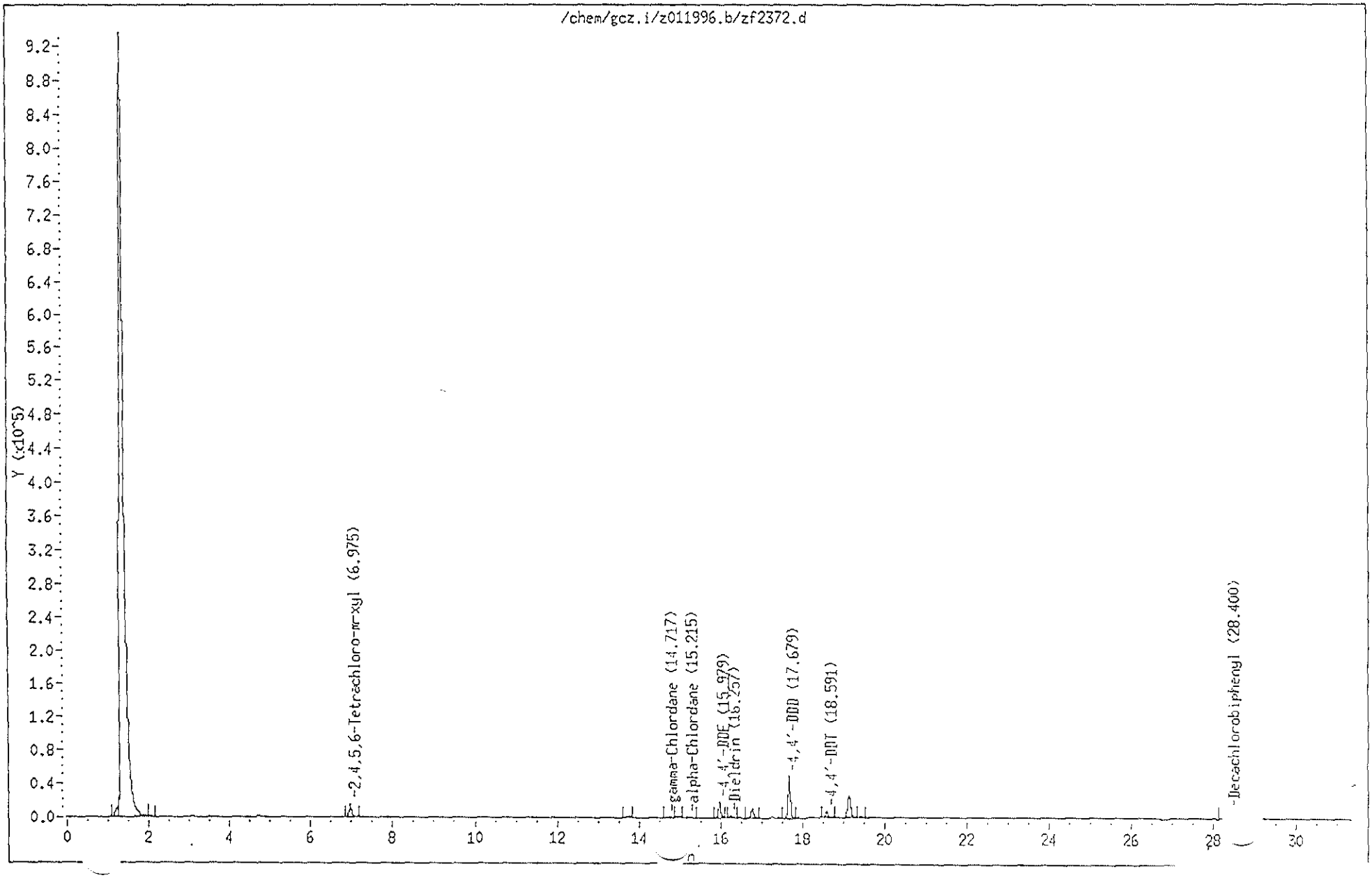
0501

Data File: /chem/gcz.i/z011996.b/zf2372.d
Date : 20-JAN-96 00:11
Client ID:
Sample Info: jp2496p,n2p60120

Column phase: DB-608

Instrument: gcz.i

Operator: art
Column diameter: 0.53



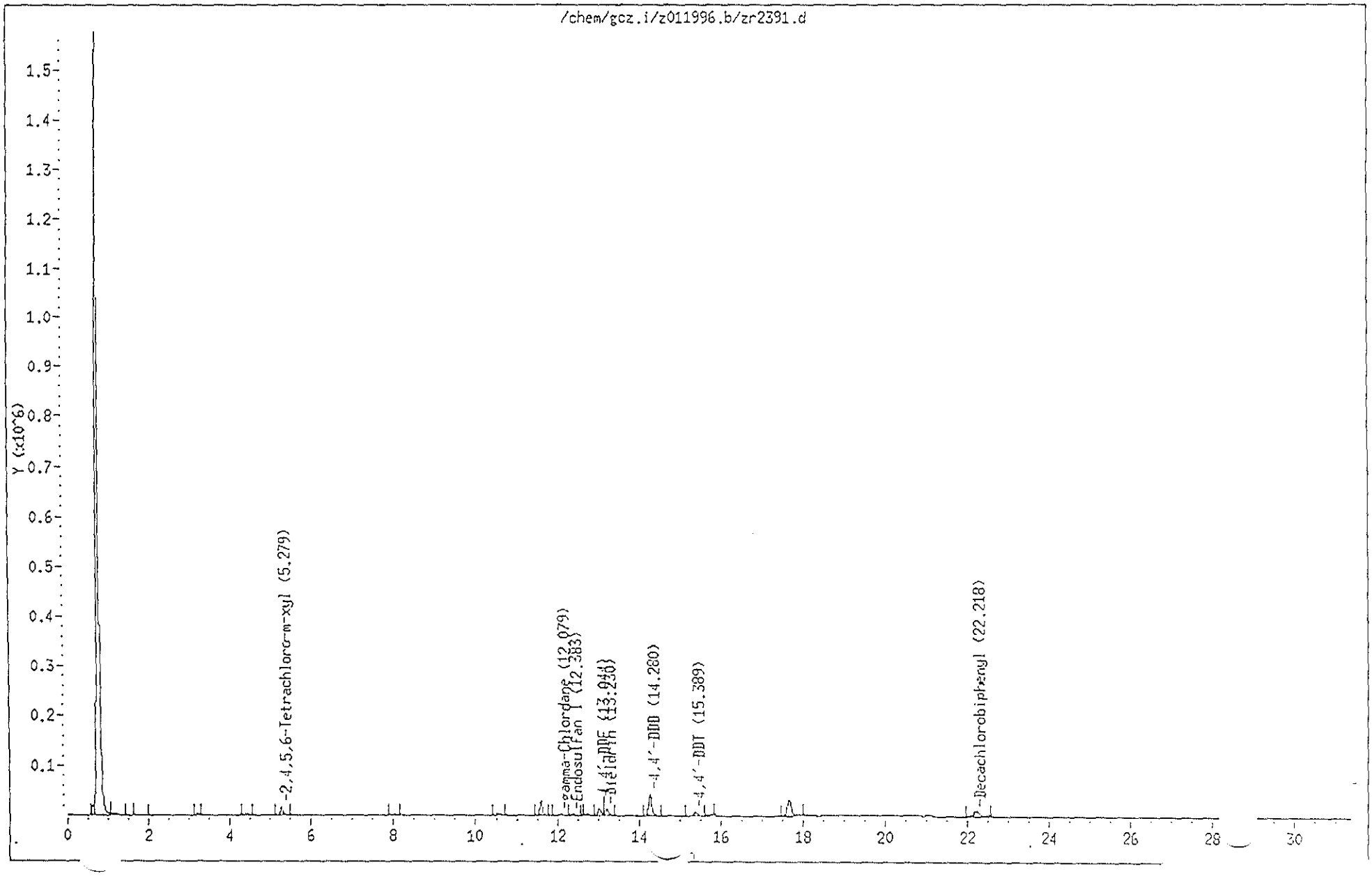
0502

Data File: /chem/gcz.i/z011996.b/zr2391.d
Date : 20-JAN-96 00:46
Client ID:
Sample Info: jp2496p,n2p60120

Column phase: DB-5

Instrument: gcz.i

Operator: art
Column diameter: 0.53



Data File: /chem/gcz.i/z011996.b/zf2372.d
Report Date: 20-Jan-1996 09:50

OHM Analytical Division

Data file : /chem/gcz.i/z011996.b/zf2372.d
Lab Smp Id:
Inj Date : 20-JAN-96 00:11
Operator : art Inst ID: gcz.i
Smp Info : jp2496p,n2p60120
Misc Info : jp2496p,n2p60120,g2,1,10
Comment :
Method : /chem/gcz.i/z011996.b/011996_8080_608.m
Meth Date : 20-Jan-1996 09:41 Quant Type: ESTD
Cal Date : 19-JAN-96 16:03 Cal File: zf2358.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

						CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
Compounds		RT	EXP RT	DLT RT	RESPONSE		
	2,4,5,6-Tetrachloro-m-xylene	6.975	6.967	0.008	342733	0.0476	0.0476(R)
9	gamma-Chlordane	14.717	14.710	0.007	27613	0.00326	0.00326
10	alpha-Chlordane	15.215	15.207	0.008	30737	0.00393	0.00393
12	4,4'-DDE	15.979	15.974	0.005	358333	0.0489	0.0489
13	Dieldrin	16.257	16.249	0.008	55959	0.00742	0.~~00742~~
15	4,4'-DDD	17.679	17.674	0.005	1039654	0.184	0.184
17	4,4'-DDT	18.591	18.587	0.004	178650	0.0314	0.0314
S 22	Decachlorobiphenyl	28.400	28.397	0.003	463725	0.0577	0.0577(R)
M 23	Chlordane				58405	0.00716	0.00716

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /chem/gcz.i/z011996.b/zr2391.d
Report Date: 20-Jan-1996 09:54

OHM Analytical Division

Data file : /chem/gcz.i/z011996.b/zr2391.d
Lab Smp Id:
Inj Date : 20-JAN-96 00:46
Operator : art Inst ID: gcz.i
Smp Info : jp2496p,n2p60120
Misc Info : jp2496p,n2p60120
Comment :
Method : /chem/gcz.i/z011996.b/011996_8080_db5.m
Meth Date : 20-Jan-1996 09:43 Quant Type: ESTD
Cal Date : 19-JAN-96 16:38 Cal File: zr2377.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
	1 2,4,5,6-Tetrachloro-m-xylene	5.279	5.279	0.000	344976	0.0465	0.0465(R)
	2 Alpha-BHC	Compound Not Detected.					
	3 Beta-BHC	Compound Not Detected.					
	4 Gamma-BHC (Lindane)	Compound Not Detected.					
	5 Delta-BHC	Compound Not Detected.					
	6 Heptachlor	Compound Not Detected.					
	7 Aldrin	Compound Not Detected.					
	8 Heptachlor epoxide	Compound Not Detected.					
	9 gamma-Chlordane	12.079	12.021	0.058	57750	0.00632	0.00632
	10 Endosulfan I	12.383	12.406	-0.023	40988	0.00513	0.00513
M	11 alpha-Chlordane				40988	0.00513	0.00513
	12 4,4'-DDE	13.044	13.045	-0.001	328577	0.0427	0.0427
	13 Dieldrin	13.230	13.205	0.025	313957	0.0353	0.0353
	14 Endrin	Compound Not Detected.					
	15 Endosulfan II	Compound Not Detected.					
	16 4,4'-DDD	14.280	14.278	0.002	1112869	0.172	0.172
	17 Endrin aldehyde	Compound Not Detected.					
	18 Endosulfan sulfate	Compound Not Detected.					
	19 4,4'-DDT	15.389	15.389	0.000	191495	0.0298	0.0298
	20 Endrin ketone	Compound Not Detected.					
	21 Methoxychlor	Compound Not Detected.					
	22 Decachlorobiphenyl	22.218	22.219	-0.001	459589	0.0511	0.0511(R)

ag Legend

- Spike/Surrogate failed recovery limits.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET 0505

EPA SAMPLE NO.

CLJ78RB001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: NA Case No.: 17418N SAS No.: NA SDG No.: CLJ78CS001

Matrix: (soil/water) WATER Lab Sample ID: JP2497P

Sample wt/vol: 260 (g/mL) ML Lab File ID: ZF2400

% Moisture: NA decanted: (Y/N) N Date Received: 01/18/96

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 01/19/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/22/96

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	.38	U
319-85-7	beta-BHC	.38	U
319-86-8	delta-BHC	.38	U
76-44-8	Heptachlor	.38	U
309-00-2	Aldrin	.38	U
1024-57-3	Heptachlor epoxide	.38	U
959-98-8	Endosulfan I	.38	U
60-57-1	Dieldrin	.38	U
72-55-9	4,4'-DDE	.38	U
72-20-8	Endrin	.38	U
33213-65-9	Endosulfan II	.38	U
72-54-8	4,4'-DDD	.38	U
1031-07-8	Endosulfan sulfate	.38	U
50-29-3	4,4'-DDT	.38	U
72-43-5	Methoxychlor	.38	U
53494-70-5	Endrin ketone	.38	U
7421-93-4	Endrin aldehyde	.38	U
8001-35-2	Toxaphene	7.7	U
12674-11-2	Aroclor-1016	3.8	U
11104-28-2	Aroclor-1221	3.8	U
11141-16-5	Aroclor-1232	3.8	U
53469-21-9	Aroclor-1242	3.8	U
12672-29-6	Aroclor-1248	3.8	U
11097-69-1	Aroclor-1254	3.8	U
11096-82-5	Aroclor-1260	3.8	U
58-89-9	Gamma-BHC (Lindane)	.38	U
57-74-9	Chlordane	3.8	U

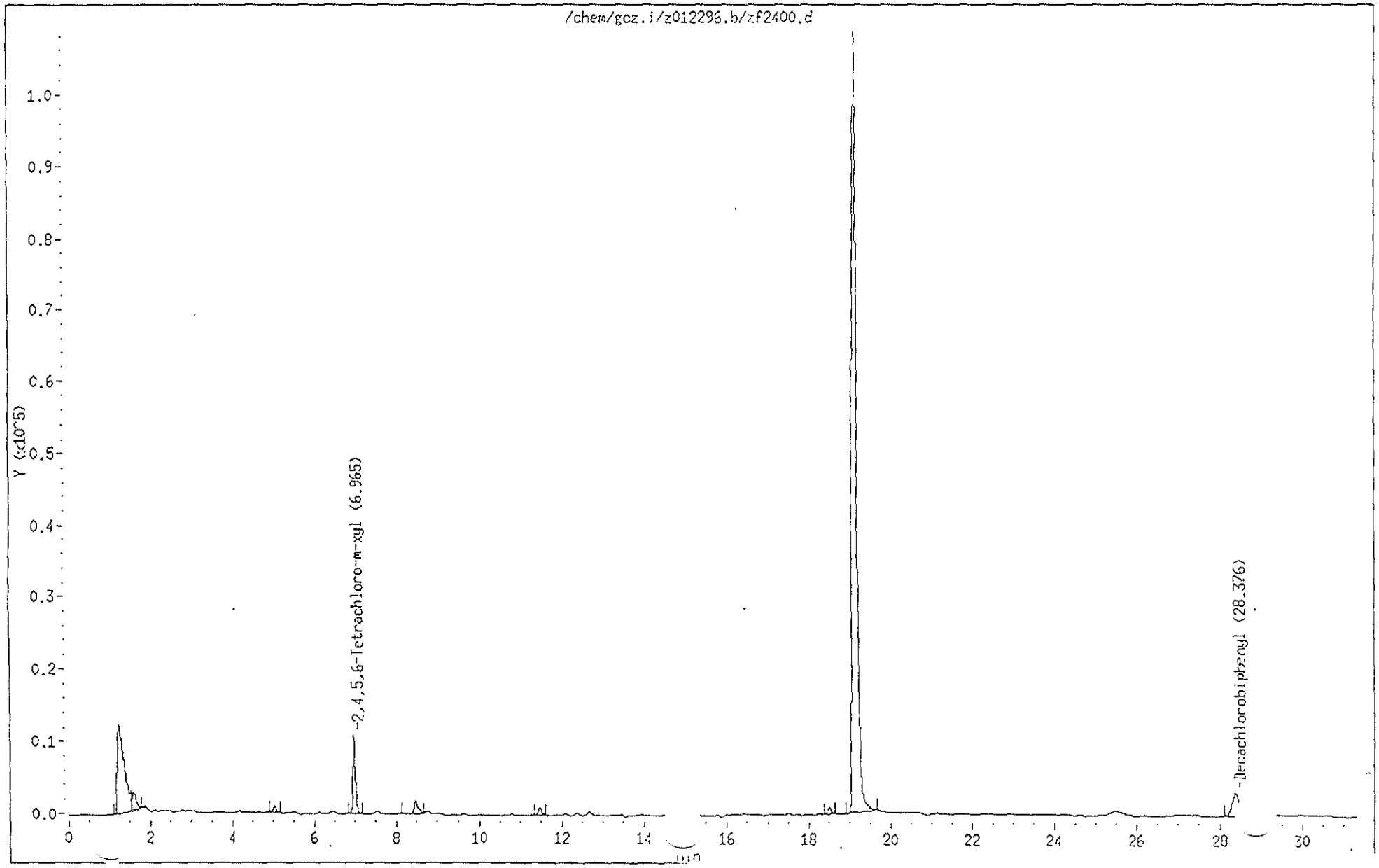
0506

Data File: /chem/gcz.i/z012296.b/zf2400.d
Date : 22-JAN-96 15:36
Client ID:
Sample Info: jp2497p,n1p60124

Column phase: DB-608

Instrument: gcz.i

Operator: art
Column diameter: 0.53



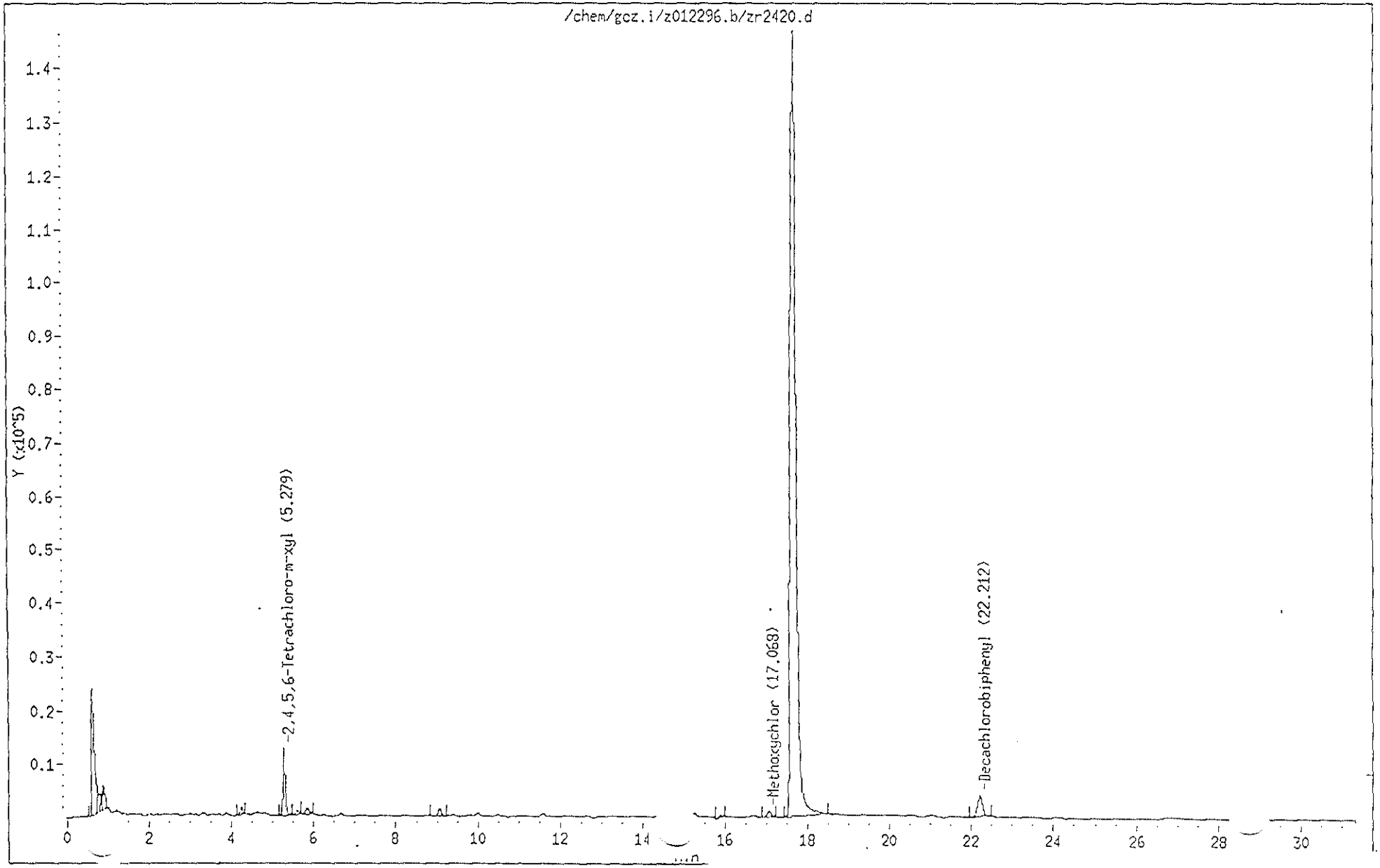
0507

Data File: /chem/gcz.i/z012296.b/zr2420.d
Date : 22-JAN-96 16:11
Client ID:
Sample Info: jp2497p,n1p60124

Column phase: DB-5

Instrument: gcz.i

Operator: art
Column diameter: 0.53



Data File: /chem/gcz.i/z012296.b/zf2400.d
Report Date: 23-Jan-1996 07:29

OHM Analytical Division

Data file : /chem/gcz.i/z012296.b/zf2400.d
Lab Smp Id:
Inj Date : 22-JAN-96 15:36
Operator : art Inst ID: gcz.i
Smp Info : jp2497p,n1p60124
Misc Info : jp2497p,n1p60124,g2,1,10
Comment :
Method : /chem/gcz.i/z012296.b/011996_8080_608.m
Meth Date : 23-Jan-1996 06:48 Quant Type: ESTD
Cal Date : 19-JAN-96 16:03 Cal File: zf2358.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/ml)
S ,4,5,6-Tetrachloro-m-xylene	6.965	6.967	-0.002	236238	0.0328	0.0328(R)
S 22 Decachlorobiphenyl	28.376	28.397	-0.021	175580	0.0218	0.0218(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

gk
1/23/96

Data File: /chem/gcz.i/z012296.b/zr2420.d
Report Date: 23-Jan-1996 07:33

OHM Analytical Division

Data file : /chem/gcz.i/z012296.b/zr2420.d
Lab Smp Id:
Inj Date : 22-JAN-96 16:11
Operator : art Inst ID: gcz.i
Smp Info : jp2497p,n1p60124
Misc Info : jp2497p,n1p60124
Comment :
Method : /chem/gcz.i/z012296.b/011996_8080_db5.m
Meth Date : 23-Jan-1996 07:20 Quant Type: ESTD
Cal Date : 19-JAN-96 16:38 Cal File: zr2377.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
$	,4,5,6-Tetrachloro-m-xylene	5.279	5.279	0.000	250654	0.0338	0.0338(R)
2	Alpha-BHC	Compound Not Detected.					
3	Beta-BHC	Compound Not Detected.					
4	Gamma-BHC (Lindane)	Compound Not Detected.					
5	Delta-BHC	Compound Not Detected.					
6	Heptachlor	Compound Not Detected.					
7	Aldrin	Compound Not Detected.					
8	Heptachlor epoxide	Compound Not Detected.					
9	gamma-Chlordane	Compound Not Detected.					
10	Endosulfan I	Compound Not Detected.					
11	alpha-Chlordane	Compound Not Detected.					
12	4,4'-DDE	Compound Not Detected.					
13	Dieldrin	Compound Not Detected.					
14	Endrin	Compound Not Detected.					
15	Endosulfan II	Compound Not Detected.					
16	4,4'-DDD	Compound Not Detected.					
17	Endrin aldehyde	Compound Not Detected.					
18	Endosulfan sulfate	Compound Not Detected.					
19	4,4'-DDT	Compound Not Detected.					
20	Endrin ketone	Compound Not Detected.					
21	Methoxychlor	17.068	17.035	0.033	35548	0.0105	0.0105
22	Decachlorobiphenyl	22.212	22.219	-0.007	164374	0.0183	0.0183(R)

C Flag Legend

- Spike/Surrogate failed recovery limits.

Report Date : 19-Jan-1996 17:04

OHM Analytical Division

INITIAL CALIBRATION DATA

Start Cal Date : 19-JAN-96 13:44
End Cal Date : 19-JAN-96 16:03
Quant Method : ESTD
Origin : Included
Target Version : 3.10
Integrator : HP Genie
Method file : /chem/gcz.i/z011996.b/011996_8080_608.m
Cal Date : 19-Jan-1996 17:02 art
Curve Type : Average

Calibration File Names:
Level 1: /chem/gcz.i/z011996.b/zf2354.d
Level 2: /chem/gcz.i/z011996.b/zf2355.d
Level 3: /chem/gcz.i/z011996.b/zf2356.d
Level 4: /chem/gcz.i/z011996.b/zf2357.d
Level 5: /chem/gcz.i/z011996.b/zf2358.d

	0.0200	0.1000	0.5000	1	2	___	
ompound	Level 1	Level 2	Level 3	Level 4	Level 5	RRF	% RSD
2 Alpha-BHC	*****	10531030	11844336	11144579	10262426	10950000	6.445
3 Gamma-BHC (Lindane)	6572850	9990920	10804203	10151051	9322259	9368000	17.604
4 Beta-BHC	4615750	5245810	5242744	4935202	4504144	4903000	7.025
5 Heptachlor	7352900	8711170	8951994	8504952	7875536	8251000	7.855
6 Delta-BHC	*****	8845700	10238526	9711394	8979653	9444000	6.907
7 Aldrin	6698050	8645570	9344060	8835927	8122440	8329000	12.142
8 Heptachlor epoxide	6998500	8123040	8334934	7832348	7250601	7708000	7.378
9 gamma-Chlordane	7627700	8849210	8963553	8784053	8090758	8453000	6.837
10 alpha-Chlordane	7359400	8717290	8595110	7603517	6916450	7840000	10.041
11 Endosulfan I	6815600	7965810	8108280	8055052	7395390	7670000	7.262
12 4,4'-DDE	5517500	7495770	8353310	7931336	7340812	7328000	14.827
13 Dieldrin	6039200	7673030	8451696	8055008	7501204	7546000	12.179
14 Endrin	4905350	6236780	6952356	6593354	6319128	6222000	12.715
15 4,4'-DDD	4216950	5706410	6437750	6152564	5740824	5661000	15.346
16 Endosulfan II	6017550	6981020	7315754	6903334	6492953	6743000	7.418
17 4,4'-DDT	4444300	5527320	6220516	6233239	6008886	5688000	13.220
18 Endrin aldehyde	5298200	5783110	5993424	5521356	5215320	5563000	5.895
19 Endosulfan sulfate	4870550	5665790	6311998	6035934	5787233	5735000	9.473
20 Methoxychlor	3050600	3496240	3514056	3441099	3355526	3372000	5.627
21 Endrin ketone	5943900	7422510	8023386	7535244	7143732	7239000	11.025
M 23 Chlordane	7493550	8783255	8779834	8155336	7503604	8151316	7.876
24 Toxaphene	*****	*****	*****	*****	*****	*****	***** <-
25 Aroclor 1016	*****	*****	*****	*****	*****	*****	***** <-
Aroclor 1221	*****	*****	*****	*****	*****	*****	***** <-
Aroclor 1232	*****	*****	*****	*****	*****	*****	***** <-
28 Aroclor 1242	*****	*****	*****	*****	*****	*****	***** <-
29 Aroclor 1248	*****	*****	*****	*****	*****	*****	***** <-

OHM Analytical Division

INITIAL CALIBRATION DATA

Start Cal Date : 19-JAN-96 13:44
End Cal Date : 19-JAN-96 16:03
Quant Method : ESTD
Origin : Included
Target Version : 3.10
Integrator : HP Genie
Method file : /chem/gcz.i/z011996.b/011996_8080_608.m
Cal Date : 19-Jan-1996 17:02 art
Curve Type : Average

	Compound	0.0200 Level 1	0.1000 Level 2	0.5000 Level 3	1 Level 4	2 Level 5	___ RRF	% RSD	
30	Aroclor 1254	-----	-----	-----	-----	-----	-----	-----	<-
31	Aroclor 1260	-----	-----	-----	-----	-----	-----	-----	<-
32	Hexachlorobenzene	-----	-----	-----	-----	-----	-----	-----	<-
5 1	2,4,5,6-Tetrachloro-m-xylene	7059200	7979910	7516588	7020512	6343662	7205000	8.663	
2	Decachlorobiphenyl	9465700	8890920	7932546	7255251	6613593	8033000	14.468	

OHM Analytical Division

INITIAL CALIBRATION DATA

Start Cal Date : 19-JAN-96 14:19
End Cal Date : 19-JAN-96 16:38
Quant Method : ESTD
Origin : Included
Target Version : 3.10
Integrator : HP Genie
Method file : /chem/gcz.i/z011996.b/011996_8080_db5.m
Cal Date : 19-Jan-1996 17:26
Curve Type : Average

Calibration File Names:
Level 1: /chem/gcz.i/z011996.b/zr2373.d
Level 2: /chem/gcz.i/z011996.b/zr2374.d
Level 3: /chem/gcz.i/z011996.b/zr2375.d
Level 4: /chem/gcz.i/z011996.b/zr2376.d
Level 5: /chem/gcz.i/z011996.b/zr2377.d

	ompound	0.0200 Level 1	0.1000 Level 2	0.5000 Level 3	1 Level 4	2 Level 5	___ RRF	% RSD
	2 Alpha-BHC	6905350	10509350	12123748	11533507	10962954	10410000	19.699
	3 Beta-BHC	4722050	5293550	5498995	5164343	4852006	5106000	6.231
	4 Gamma-BHC (Lindane)	7035600	9983200	11178518	10514747	9989252	9760000	16.415
	5 Delta-BHC	-----	9064680	10818346	10251703	9742362	9959000	7.485
	6 Heptachlor	7718550	8340700	8248626	8542832	8387456	8527655	6.892
	7 Aldrin	6603850	8506290	9311584	9369480	8743943	8607029	14.317
	8 Heptachlor epoxide	6955600	8031260	8722208	8327860	7861220	7979630	8.261
	9 gamma-Chlordane	7984800	9175300	9791252	9587043	9075294	9142938	7.855
	10 Endosulfan I	7611550	8758710	8453350	7849752	7240671	7982807	7.747
M	11 alpha-Chlordane	7611550	8758710	8453350	7849752	7240671	7982807	7.747
	12 4,4'-DDE	5350900	7359450	9095092	8577998	8009808	7699000	19.086
	13 Dieldrin	9487800	8686250	9102602	8806169	8417914	8900147	4.610
	14 Endrin	5702850	6784470	7420420	7125870	6768324	6760397	9.610
	15 Endosulfan II	6284800	7173590	7752575	7346519	6750646	7067626	8.108
	16 4,4'-DDD	5058200	6285790	7337910	6943275	6650893	6456414	13.504
	17 Endrin aldehyde	6156800	6494120	6739540	6205008	5829296	6284973	5.517
	18 Endosulfan sulfate	5747950	6210350	6874224	6554904	6105595	6298605	6.853
	19 4,4'-DDT	5034750	6053950	6970462	7133283	6987230	6435935	13.865
	20 Endrin ketone	6954400	8167630	8518782	7989400	7535269	7833096	7.732
	21 Methoxychlor	3472900	3519800	3578395	3521050	3333961	3501221	3.155
S	1 2,4,5,6-Tetrachloro-m-xylene	7418950	7988510	7791428	7233623	6654895	7411000	7.053
S	22 Decachlorobiphenyl	9965400	9502910	9210468	8473515	7791946	8988868	9.578

Data File: /chem/gcz.i/z011996.b/zf2374.d
Report Date: 20-Jan-1996 09:41

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcz.i
Lab File ID: zf2374.d
Analysis Type:
Lab Sample ID:
Quant Type: ESTD

Injection Date: 20-JAN-96 01:21
Init. Calibration Date(s): JAN/19/96 JAN/19/96
Init. Calibration Times: 13:44 16:03
Method File: /chem/gcz.i/z011996.b/011996_8080_608.m

	COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D	
$	1 2,4,5,6-Tetrachloro-m-xylene	7205000.000	7109875.896	0.010	1.3	15.0	
	2 Alpha-BHC	10950000.000	10978466.055	0.010	0.3	15.0	
	3 Gamma-BHC (Lindane)	9368000.000	10042300.277	0.010	7.2	15.0	
	4 Beta-BHC	4903000.000	4807049.848	0.010	2.0	15.0	
	5 Heptachlor	8281000.000	7758060.103	0.010	6.3	15.0	
	6 Delta-BHC	9444000.000	9296675.473	0.010	1.6	15.0	
	7 Aldrin	8329000.000	8260007.620	0.010	0.8	15.0	
	8 Heptachlor epoxide	7708000.000	7554803.191	0.010	2.0	15.0	
	9 gamma-Chlordane	8463000.000	8356510.905	0.010	1.3	15.0	
	10 alpha-Chlordane	7840000.000	7754852.201	0.010	1.1	15.0	
	11 Endosulfan I	7670000.000	7599920.090	0.010	0.9	15.0	
	12 4,4'-DDE	7328000.000	7325218.658	0.010	0.0	15.0	
	13 Dieldrin	7546000.000	7417565.751	0.010	1.7	15.0	
	14 Endrin	6222000.000	6382736.893	0.010	2.6	15.0	
	15 4,4'-DDD	5661000.000	5740663.819	0.010	1.4	15.0	
	16 Endosulfan II	6743000.000	6744920.885	0.010	0.0	15.0	
	17 4,4'-DDT	5688000.000	5180744.540	0.010	8.9	15.0	
	18 Endrin aldehyde	5563000.000	5452351.720	0.010	2.0	15.0	
	19 Endosulfan sulfate	5735000.000	5838784.632	0.010	1.8	15.0	
	20 Methoxychlor	3372000.000	3077353.090	0.010	8.7	15.0	
	21 Endrin ketone	7239000.000	7296991.728	0.010	0.8	15.0	
$	22 Decachlorobiphenyl	8033000.000	7754263.619	0.010	3.5	15.0	
M	23 Chlordane	8151315.709	8073323.169	0.010	1.0	40.0	
	24 Toxaphene	++++	++++	0.010	++++	40.0	<-
	25 Aroclor 1016	++++	++++	0.010	++++	40.0	<-
	26 Aroclor 1221	++++	++++	0.010	++++	40.0	<-
	27 Aroclor 1232	++++	++++	0.010	++++	40.0	<-
	28 Aroclor 1242	++++	++++	0.010	++++	40.0	<-
	29 Aroclor 1248	++++	++++	0.010	++++	40.0	<-
	30 Aroclor 1254	++++	++++	0.010	++++	40.0	<-
	31 Aroclor 1260	++++	++++	0.010	++++	40.0	<-
	32 Hexachlorobenzene	++++	++++	0.010	++++	40.0	<-

Data File: /chem/gcz.i/z012296.b/zf2397.d
Report Date: 22-Jan-1996 13:00

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcz.i
Lab File ID: zf2397.d
Analysis Type:
Lab Sample ID:
Quant Type: ESTD

Injection Date: 22-JAN-96 12:10
Init. Calibration Date(s): JAN/19/96 JAN/19/96
Init. Calibration Times: 13:44 16:03
Method File: /chem/gcz.i/z012296.b/011996_8080_608.m

	COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D	
$	1 2,4,5,6-Tetrachloro-m-xylene	7205000.000	7184274.318	0.010	0.3	15.0	
	2 Alpha-BHC	10950000.000	10758763.089	0.010	1.7	15.0	
	3 Gamma-BHC (Lindane)	9368000.000	9151530.923	0.010	2.3	15.0	
	4 Beta-BHC	4903000.000	4787956.349	0.010	2.3	15.0	
	5 Heptachlor	8281000.000	7520932.691	0.010	9.2	15.0	
	6 Delta-BHC	9444000.000	8757105.601	0.010	7.3	15.0	
	7 Aldrin	8329000.000	8306287.767	0.010	0.3	15.0	
	8 Heptachlor epoxide	7708000.000	7533308.933	0.010	2.3	15.0	
	9 gamma-Chlordane	8463000.000	8380210.171	0.010	1.0	15.0	
	10 alpha-Chlordane	7840000.000	7773015.018	0.010	0.9	15.0	
	11 Endosulfan I	7670000.000	7611977.546	0.010	0.8	15.0	
	12 4,4'-DDE	7328000.000	7350718.900	0.010	0.4	15.0	
	13 Dieldrin	7546000.000	7309577.279	0.010	3.1	15.0	
	14 Endrin	6222000.000	6173516.298	0.010	0.8	15.0	
	15 4,4'-DDD	5561000.000	5473185.685	0.010	3.2	15.0	
	16 Endosulfan II	6743000.000	6667422.187	0.010	1.1	15.0	
	17 4,4'-DDT	5688000.000	5129072.644	0.010	9.8	15.0	
	18 Endrin aldehyde	5563000.000	5353348.766	0.010	3.8	15.0	
	19 Endosulfan sulfate	5735000.000	5504044.422	0.010	4.0	15.0	
	20 Methoxychlor	3372000.000	2909250.570	0.010	13.7	15.0	
	21 Endrin ketone	7239000.000	7009195.398	0.010	3.2	15.0	
$	22 Decachlorobiphenyl	8033000.000	7758926.210	0.010	3.4	15.0	
M	23 Chlordane	8151000.000	8079337.318	0.010	0.9	40.0	
	24 Toxaphene	****	****	0.010	****	40.0	<-
	25 Aroclor 1016	****	****	0.010	****	40.0	<-
	26 Aroclor 1221	****	****	0.010	****	40.0	<-
	27 Aroclor 1232	****	****	0.010	****	40.0	<-
	28 Aroclor 1242	****	****	0.010	****	40.0	<-
	29 Aroclor 1248	****	****	0.010	****	40.0	<-
	30 Aroclor 1254	****	****	0.010	****	40.0	<-
	31 Aroclor 1260	****	****	0.010	****	40.0	<-
	32 Hexachlorobenzene	****	****	0.010	****	40.0	<-

Data File: /chem/gcz.i/z012296.b/zf2406.d
Report Date: 23-Jan-1996 06:48

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcz.i
Lab File ID: zf2406.d
Analysis Type:
Lab Sample ID:
Quant Type: ESTD

Injection Date: 22-JAN-96 19:06
Init. Calibration Date(s): JAN/19/96 JAN/19/96
Init. Calibration Times: 13:44 16:03
Method File: /chem/gcz.i/z012296.b/011996_8080_608.m

	COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D	
$	1 2,4,5,6-Tetrachloro-m-xylene	7205000.000	7359905.152	0.010	2.1	15.0	
	2 Alpha-BHC	10950000.000	11095460.405	0.010	1.3	15.0	
	3 Gamma-BHC (Lindane)	9368000.000	9479066.169	0.010	1.2	15.0	
	4 Beta-BHC	4903000.000	4953054.061	0.010	1.0	15.0	
	5 Heptachlor	8281000.000	8116372.809	0.010	2.0	15.0	
	6 Delta-BHC	9444000.000	9188998.564	0.010	2.7	15.0	
	7 Aldrin	8329000.000	8520255.581	0.010	2.3	15.0	
	8 Heptachlor epoxide	7708000.000	7768276.834	0.010	0.8	15.0	
	9 gamma-Chlordane	8463000.000	8604521.156	0.010	1.7	15.0	
	10 alpha-Chlordane	7840000.000	7996107.957	0.010	2.0	15.0	
	11 Endosulfan I	7670000.000	7319072.457	0.010	1.9	15.0	
	12 4,4'-DDE	7328000.000	7546861.642	0.010	3.0	15.0	
	13 Dieldrin	7546000.000	7637151.860	0.010	1.2	15.0	
	14 Endrin	6222000.000	6476180.399	0.010	4.1	15.0	
	15 4,4'-DDD	5661000.000	5749943.090	0.010	1.6	15.0	
	16 Endosulfan II	6743000.000	6872101.365	0.010	1.9	15.0	
	17 4,4'-DDT	5688000.000	5631122.575	0.010	1.0	15.0	
	18 Endrin aldehyde	5563000.000	5554833.634	0.010	0.1	15.0	
	19 Endosulfan sulfate	5735000.000	5714559.609	0.010	0.4	15.0	
	20 Methoxychlor	3372000.000	3256081.031	0.010	3.4	15.0	
	21 Endrin ketone	7239000.000	7318790.792	0.010	1.1	15.0	
$	22 Decachlorobiphenyl	8033000.000	8100308.468	0.010	0.8	15.0	
M	23 Chlordane	8151000.000	8303238.671	0.010	1.9	40.0	
	24 Toxaphene	++++	++++	0.010	++++	40.0	<-
	25 Aroclor 1016	++++	++++	0.010	++++	40.0	<-
	26 Aroclor 1221	++++	++++	0.010	++++	40.0	<-
	27 Aroclor 1232	++++	++++	0.010	++++	40.0	<-
	28 Aroclor 1242	++++	++++	0.010	++++	40.0	<-
	29 Aroclor 1248	++++	++++	0.010	++++	40.0	<-
	30 Aroclor 1254	++++	++++	0.010	++++	40.0	<-
	31 Aroclor 1260	++++	++++	0.010	++++	40.0	<-
	32 Hexachlorobenzene	++++	++++	0.010	++++	40.0	<-

Data File: /chem/gcz.i/z011996.b/zr2393.d
Report Date: 20-Jan-1996 09:44

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcz.i
Lab File ID: zr2393.d
Analysis Type:
Lab Sample ID:
Quant Type: ESTD

Injection Date: 20-JAN-96 01:56
Init. Calibration Date(s): JAN/19/96 JAN/19/96
Init. Calibration Times: 14:19 16:38
Method File: /chem/gcz.i/z011996.b/011996_8080_db5.m

	COMPOUND	RRF	RFO	MIN RRF	%D	MAX %D
S	1 2,4,5,6-Tetrachloro-m-xylene	7411000.000	7392005.600	0.010	0.3	15.0
	2 Alpha-BHC	10410000.000	11428955.963	0.010	9.8	15.0
	3 Beta-BHC	5106000.000	5074232.469	0.010	0.6	15.0
	4 Gamma-BHC (Lindane)	9760000.000	10461429.759	0.010	7.2	15.0
	5 Delta-BHC	9969000.000	9791071.323	0.010	1.8	15.0
	6 Heptachlor	8627654.817	8029879.093	0.010	6.9	15.0
	7 Aldrin	8607029.467	8585335.567	0.010	0.3	15.0
	8 Heptachlor epoxide	7979529.611	7859284.630	0.010	1.5	15.0
	9 gamma-Chlordane	9142937.918	9147434.584	0.010	0.0	15.0
	10 Endosulfan I	7982806.768	7747451.470	0.010	2.9	15.0
M	11 alpha-Chlordane	7982806.768	7747451.470	0.010	2.9	15.0
	12 4,4'-DDE	7699000.000	7771436.034	0.010	0.9	15.0
	13 Dieldrin	8900147.136	7947220.733	0.010	10.7	15.0
	14 Endrin	6760336.783	6305263.022	0.010	0.7	15.0
	15 Endosulfan II	7067626.163	7107359.209	0.010	0.6	15.0
	16 4,4'-DDD	6456413.689	6375674.171	0.010	1.3	15.0
	17 Endrin aldehyde	6284972.930	6077491.072	0.010	3.3	15.0
	18 Endosulfan sulfate	6299604.631	6159631.443	0.010	2.0	15.0
	19 4,4'-DDT	6435935.089	5743048.564	0.010	10.8	15.0
	20 Endrin ketone	7833096.230	7609984.517	0.010	2.8	15.0
	21 Methoxychlor	3501221.443	3169624.501	0.010	9.5	15.0
S	22 Decachlorobiphenyl	8988867.741	8914867.364	0.010	0.8	15.0

Data File: /chem/gcz.i/z012296.b/zr2416.d
Report Date: 22-Jan-1996 13:10

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcz.i
Lab File ID: zr2416.d
Analysis Type:
Lab Sample ID:
Quant Type: ESTD

Injection Date: 22-JAN-96 12:10
Init. Calibration Date(s): JAN/19/96 JAN/19/96
Init. Calibration Times: 14:19 16:38
Method File: /chem/gcz.i/z012296.b/011996_8080_db5.m

	COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D	
S	1 2,4,5,6-Tetrachloro-m-xylene	7411000.000	7579522.955	0.010	2.3	15.0	
	2 Alpha-BHC	10410000.000	11425744.015	0.010	9.8	15.0	
	3 Beta-BHC	5106000.000	5057561.673	0.010	0.9	15.0	
	4 Gamma-BHC (Lindane)	9760000.000	9633850.481	0.010	0.8	15.0	
	5 Delta-BHC	9969000.000	9594431.114	0.010	2.8	15.0	
	6 Heptachlor	8628000.000	7662274.510	0.010	11.2	15.0	
	7 Aldrin	8607000.000	8771715.044	0.010	1.9	15.0	
	8 Heptachlor epoxide	7980000.000	7815925.725	0.010	2.1	15.0	
	9 gamma-Chlordane	9143000.000	9374083.091	0.010	2.5	15.0	
	10 Endosulfan I	7983000.000	7827610.514	0.010	1.9	15.0	
M	11 alpha-Chlordane	7983000.000	7827610.514	0.010	1.9	15.0	
	12 4,4'-DDE	7699000.000	7980940.367	0.010	3.7	15.0	
	13 Dieldrin	8900000.000	7739427.470	0.010	13.0	15.0	
	14 Endrin	6760000.000	6389001.891	0.010	5.5	15.0	
	15 Endosulfan II	7068000.000	7074618.692	0.010	0.1	15.0	
	16 4,4'-DDD	6455000.000	5952179.091	0.010	7.6	15.0	
	17 Endrin aldehyde	6285000.000	5997035.492	0.010	4.6	15.0	
	18 Endosulfan sulfate	6299000.000	6087301.246	0.010	3.4	15.0	
	19 4,4'-DDT	6436000.000	5689448.712	0.010	11.6	15.0	
	20 Endrin ketone	7833000.000	7337114.473	0.010	6.3	15.0	
	21 Methoxychlor	3501000.000	2690288.505	0.010	23.2	15.0	<-
S	22 Decachlorobiphenyl	8989000.000	8783935.534	0.010	2.3	15.0	

Data File: /chem/gcz.i/z012296.b/zr2426.d
Report Date: 23-Jan-1996 07:18

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcz.i
Lab File ID: zr2426.d
Analysis Type:
Lab Sample ID:
Quant Type: ESTD

Injection Date: 22-JAN-96 19:40
Init. Calibration Date(s): JAN/19/96 JAN/19/96
Init. Calibration Times: 14:19 16:38
Method File: /chem/gcz.i/z012296.b/011996_8080_db5.m

	COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D
S	1 2,4,5,6-Tetrachloro-m-xylene	7411000.000	7546240.000	0.010	3.2	15.0
	2 Alpha-BHC	10410000.000	11652918.969	0.010	11.9	15.0
	3 Beta-BHC	5105000.000	5203459.698	0.010	1.9	15.0
	4 Gamma-BHC (Lindane)	9760000.000	9926536.838	0.010	1.7	15.0
	5 Delta-BHC	9969000.000	10078159.608	0.010	1.1	15.0
	6 Heptachlor	8623000.000	8215987.077	0.010	4.8	15.0
	7 Aldrin	8607000.000	8374487.168	0.010	3.1	15.0
	8 Heptachlor epoxide	7980000.000	8016512.692	0.010	0.5	15.0
	9 gamma-Chlordane	9143000.000	9450774.134	0.010	3.4	15.0
	10 Endosulfan I	7983000.000	7859432.569	0.010	1.4	15.0
M	11 alpha-Chlordane	7983000.000	7859432.569	0.010	1.4	15.0
	12 4,4'-DDE	7699000.000	8052047.061	0.010	4.6	15.0
	13 Dieldrin	8900000.000	8077989.114	0.010	9.2	15.0
	14 Endrin	6760000.000	6654309.544	0.010	1.4	15.0
	15 Endosulfan II	7068000.000	7201885.916	0.010	1.9	15.0
	16 4,4'-DDD	6456000.000	6337663.137	0.010	1.8	15.0
	17 Endrin aldehyde	6285000.000	6196158.322	0.010	1.4	15.0
	18 Endosulfan sulfate	6299000.000	6212112.457	0.010	1.4	15.0
	19 4,4'-DDT	6436000.000	6213744.473	0.010	3.4	15.0
	20 Endrin ketone	7833000.000	7612399.436	0.010	2.8	15.0
	21 Methoxychlor	3501000.000	3129430.044	0.010	10.6	15.0
S	22 Decachlorobiphenyl	8939000.000	9264582.426	0.010	3.1	15.0

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET 0519

EPA SAMPLE NO.

PBLK01A

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: N2P60120P

Sample wt/vol: 30.0 (g/mL) G Lab File ID: ZF2363

% Moisture: N/A decanted: (Y/N) N Date Received: 1/18/96

Extraction: (SepF/Cont/Sonc) 3540 Date Extracted: 01/18/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	1.7	U
72-55-9	4,4'-DDE	1.7	U
72-20-8	Endrin	1.7	U
33213-65-9	Endosulfan II	1.7	U
72-54-8	4,4'-DDD	1.7	U
1031-07-8	Endosulfan sulfate	1.7	U
50-29-3	4,4'-DDT	1.7	U
72-43-5	Methoxychlor	1.7	U
53494-70-5	Endrin ketone	1.7	U
7421-93-4	Endrin aldehyde	1.7	U
8001-35-2	Toxaphene	33	U
12674-11-2	Aroclor-1016	17	U
11104-28-2	Aroclor-1221	17	U
11141-16-5	Aroclor-1232	17	U
53469-21-9	Aroclor-1242	17	U
12672-29-6	Aroclor-1248	17	U
11097-69-1	Aroclor-1254	17	U
11096-82-5	Aroclor-1260	17	U
57-74-9	Chlordane	17	U
58-89-9	Gamma-BHC (Lindane)	1.7	U

0520

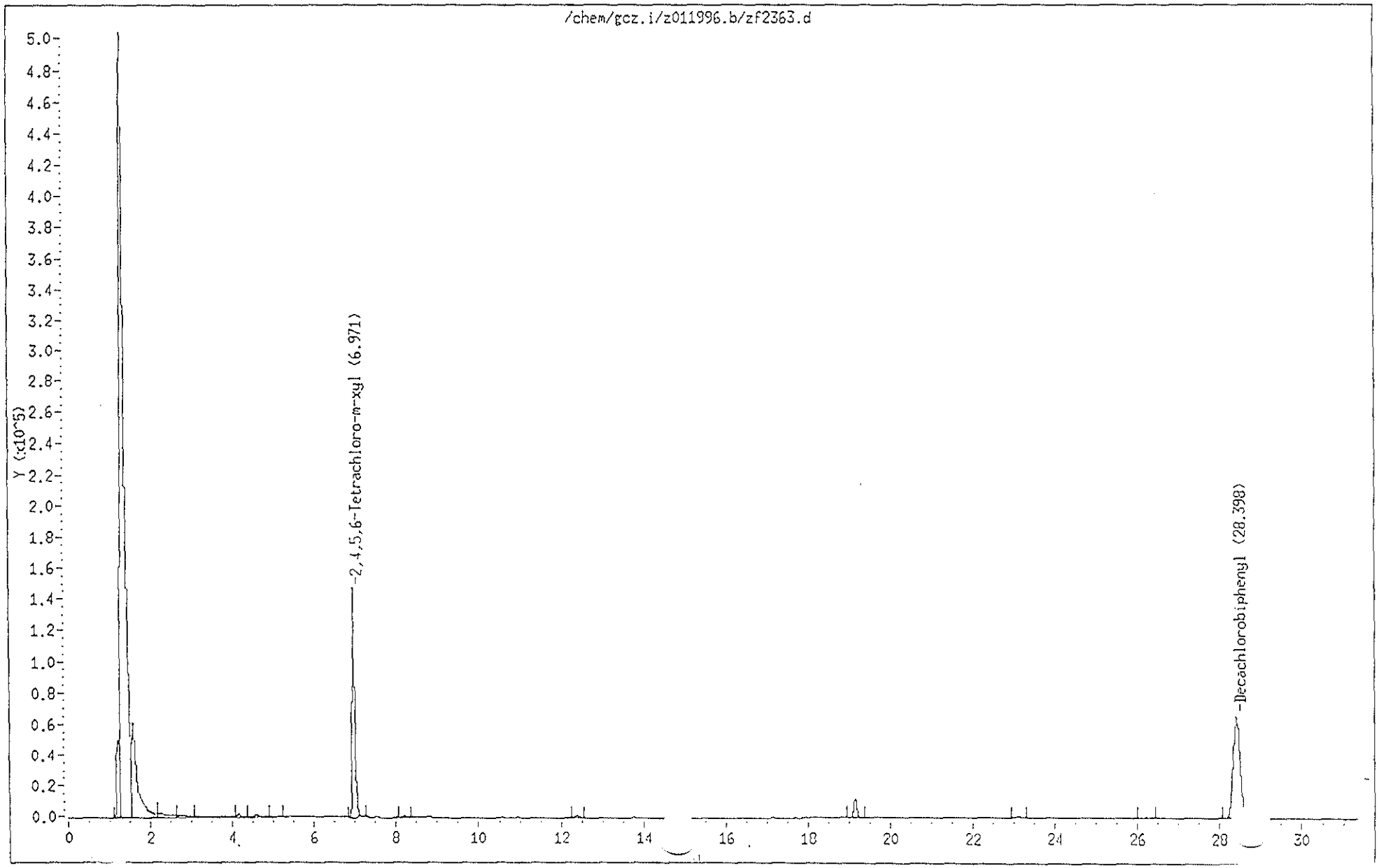
Data File: /chem/gcz.i/z011996.b/zf2363.d
Date : 19-JAN-96 18:58
Client ID:
Sample Info: n2p60120p,n2p601

Instrument: gcz.i

Operator: art

Column phase: DB-608

Column diameter: 0.53



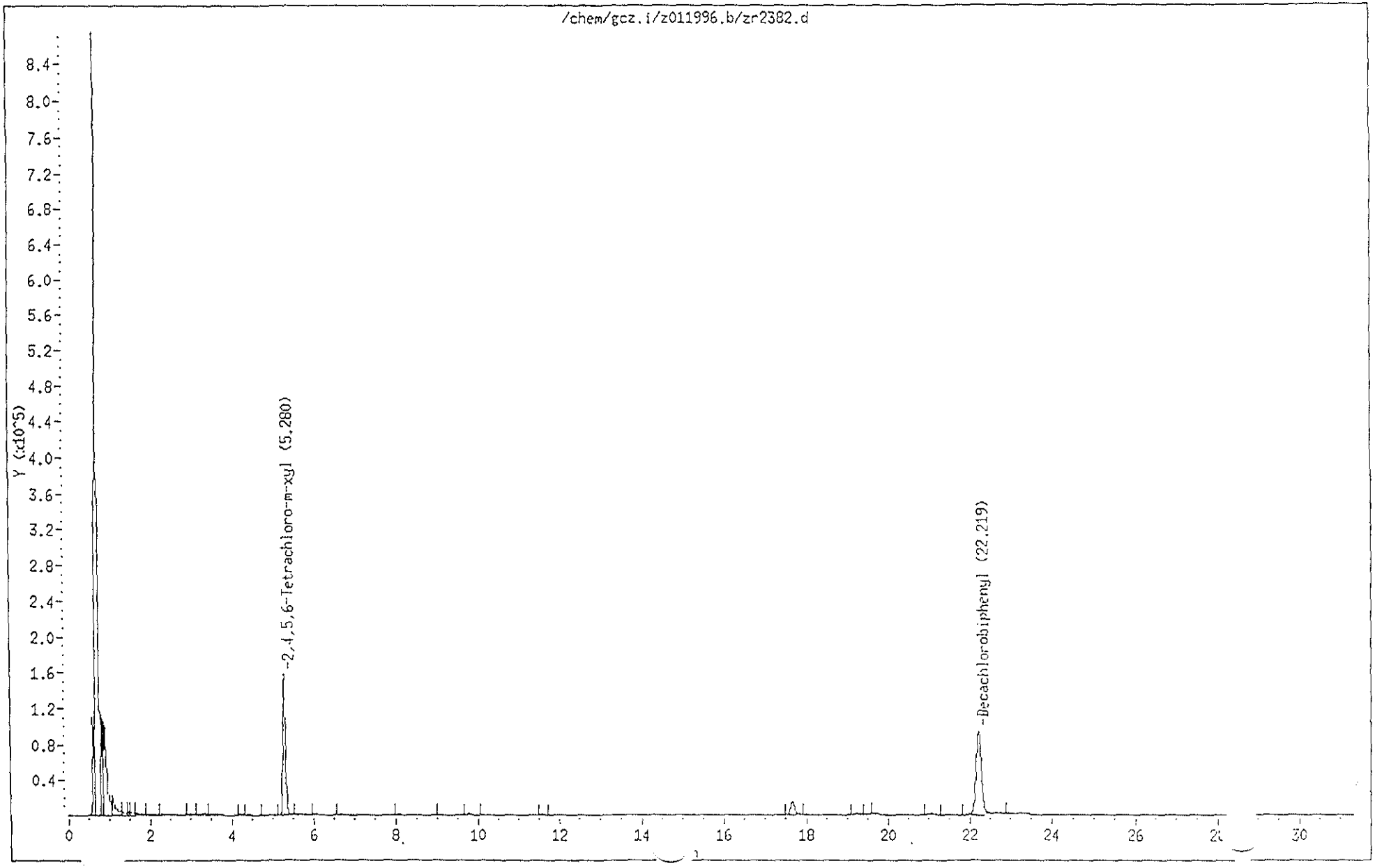
0521

Data File: /chem/gcz.i/z011996.b/zr2382.d
Date : 19-JAN-96 19:33
Client ID:
Sample Info: n2p60120p,n2p601

Column phase: DB-5

Instrument: gcz.i

Operator: art
Column diameter: 0.53



Data File: /chem/gcz.i/z011996.b/zf2363.d
Report Date: 20-Jan-1996 09:49

OHM Analytical Division

Data file : /chem/gcz.i/z011996.b/zf2363.d
Lab Smp Id:
Inj Date : 19-JAN-96 18:58
Operator : art Inst ID: gcz.i
Smp Info : n2p60120p,n2p601
Misc Info : n2p60120p,n2p60120,g2,1,1
Comment :
Method : /chem/gcz.i/z011996.b/011996_8080_608.m
Meth Date : 20-Jan-1996 09:41 Quant Type: ESTD
Cal Date : 19-JAN-96 16:03 Cal File: zf2358.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
S	2,4,5,6-Tetrachloro-m-xylene	6.971	6.967	0.004	3415762	0.474	0.474(R)
S	22 Decachlorobiphenyl	28.398	28.397	0.001	3843465	0.478	0.478(R)

aw 1/30/96

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /chem/gcz.i/z011996.b/zr2382.d
Report Date: 20-Jan-1996 09:53

OHM Analytical Division

Data file : /chem/gcz.i/z011996.b/zr2382.d
Lab Smp Id:
Inj Date : 19-JAN-96 19:33
Operator : art Inst ID: gcz.i
Smp Info : n2p60120p,n2p601
Misc Info : n2p60120p,n2p601
Comment :
Method : /chem/gcz.i/z011996.b/011996_8080_db5.m
Meth Date : 20-Jan-1996 09:43 Quant Type: ESTD
Cal Date : 19-JAN-96 16:38 Cal File: zr2377.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
	2,4,5,6-Tetrachloro-m-xylene	5.280	5.279	0.001	3592793	0.485	0.485(R)
	2 Alpha-BHC	Compound Not Detected.					
	3 Beta-BHC	Compound Not Detected.					
	4 Gamma-BHC (Lindane)	Compound Not Detected.					
	5 Delta-BHC	Compound Not Detected.					
	6 Heptachlor	Compound Not Detected.					
	7 Aldrin	Compound Not Detected.					
	8 Heptachlor epoxide	Compound Not Detected.					
	9 gamma-Chlordane	Compound Not Detected.					
	10 Endosulfan I	Compound Not Detected.					
M	11 alpha-Chlordane	Compound Not Detected.					
	12 4,4'-DDE	Compound Not Detected.					
	13 Dieldrin	Compound Not Detected.					
	14 Endrin	Compound Not Detected.					
	15 Endosulfan II	Compound Not Detected.					
	16 4,4'-DDD	Compound Not Detected.					
	17 Endrin aldehyde	Compound Not Detected.					
	18 Endosulfan sulfate	Compound Not Detected.					
	19 4,4'-DDT	Compound Not Detected.					
	20 Endrin ketone	Compound Not Detected.					
	21 Methoxychlor	Compound Not Detected.					
S	22 Decachlorobiphenyl	22.219	22.219	0.000	4354468	0.484	0.484(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET 0524

EPA SAMPLE NO.

PBLK01B

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: NA Case No.: 17418N SAS No.: NA SDG No.: CLJ78CS001

Matrix: (soil/water) WATER Lab Sample ID: N1P60124P

Sample wt/vol: 1000 (g/mL) ML Lab File ID: ZF2398

% Moisture: NA decanted: (Y/N) N Date Received: 1/18/96

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 01/19/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/22/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	.010	U
319-85-7	beta-BHC	.010	U
319-86-8	delta-BHC	.010	U
76-44-8	Heptachlor	.010	U
309-00-2	Aldrin	.010	U
1024-57-3	Heptachlor epoxide	.010	U
959-98-8	Endosulfan I	.010	U
60-57-1	Dieldrin	.010	U
72-55-9	4,4'-DDE	.010	U
72-20-8	Endrin	.010	U
33213-65-9	Endosulfan II	.010	U
72-54-8	4,4'-DDD	.010	U
1031-07-8	Endosulfan sulfate	.010	U
50-29-3	4,4'-DDT	.010	U
72-43-5	Methoxychlor	.010	U
53494-70-5	Endrin ketone	.010	U
7421-93-4	Endrin aldehyde	.010	U
8001-35-2	Toxaphene	.20	U
12674-11-2	Aroclor-1016	.10	U
11104-28-2	Aroclor-1221	.10	U
11141-16-5	Aroclor-1232	.10	U
53469-21-9	Aroclor-1242	.10	U
12672-29-6	Aroclor-1248	.10	U
11097-69-1	Aroclor-1254	.10	U
11096-82-5	Aroclor-1260	.10	U
58-89-9	Gamma-BHC (Lindane)	.010	U
57-74-9	Chlordane	.10	U

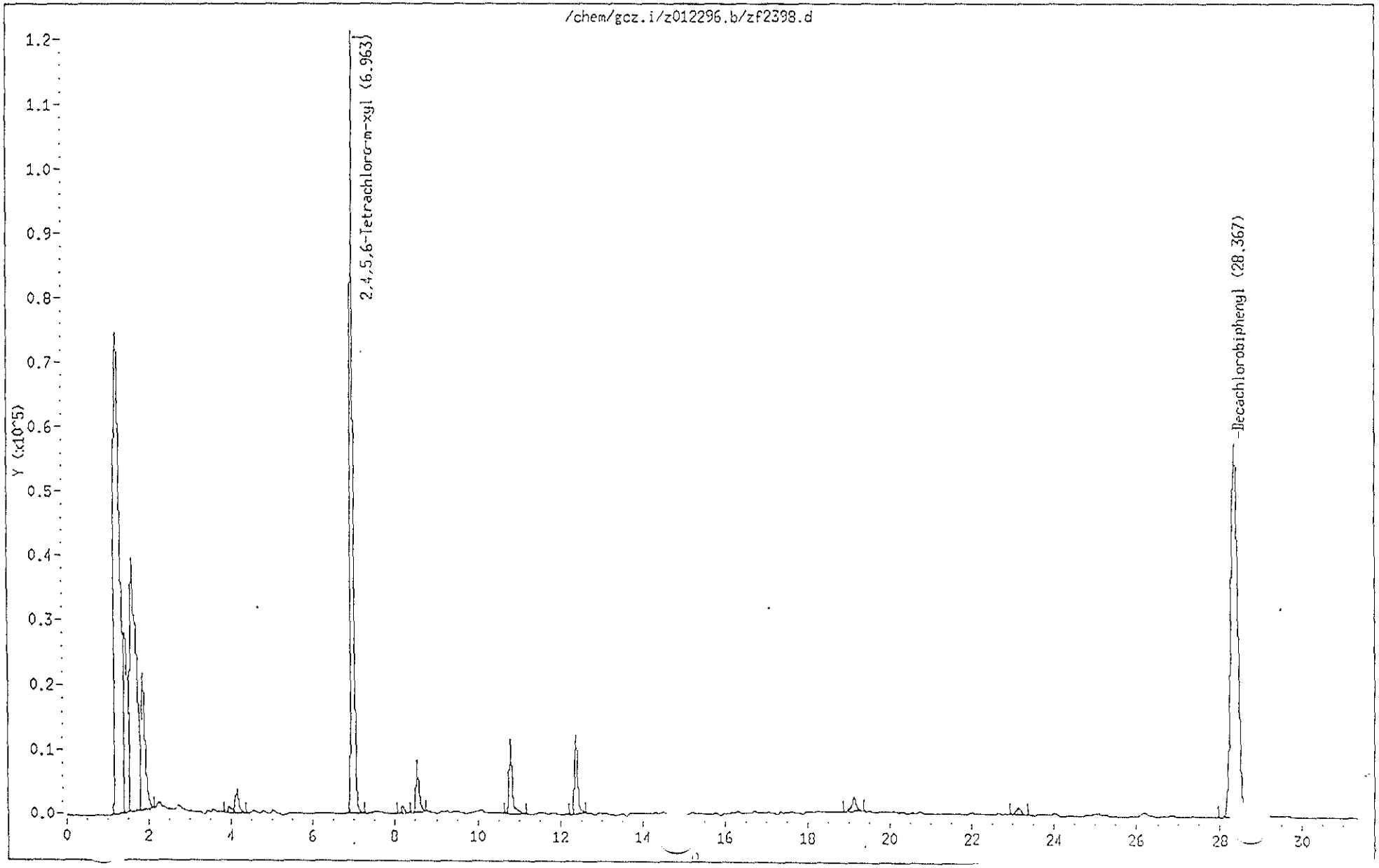
0525

Data File: /chem/gcz.i/z012296.b/zf2398.d
Date : 22-JAN-96 14:27
Client ID:
Sample Info: n1p60124p,n1p601

Column phase: DB-608

Instrument: gcz.i

Operator: art
Column diameter: 0.53



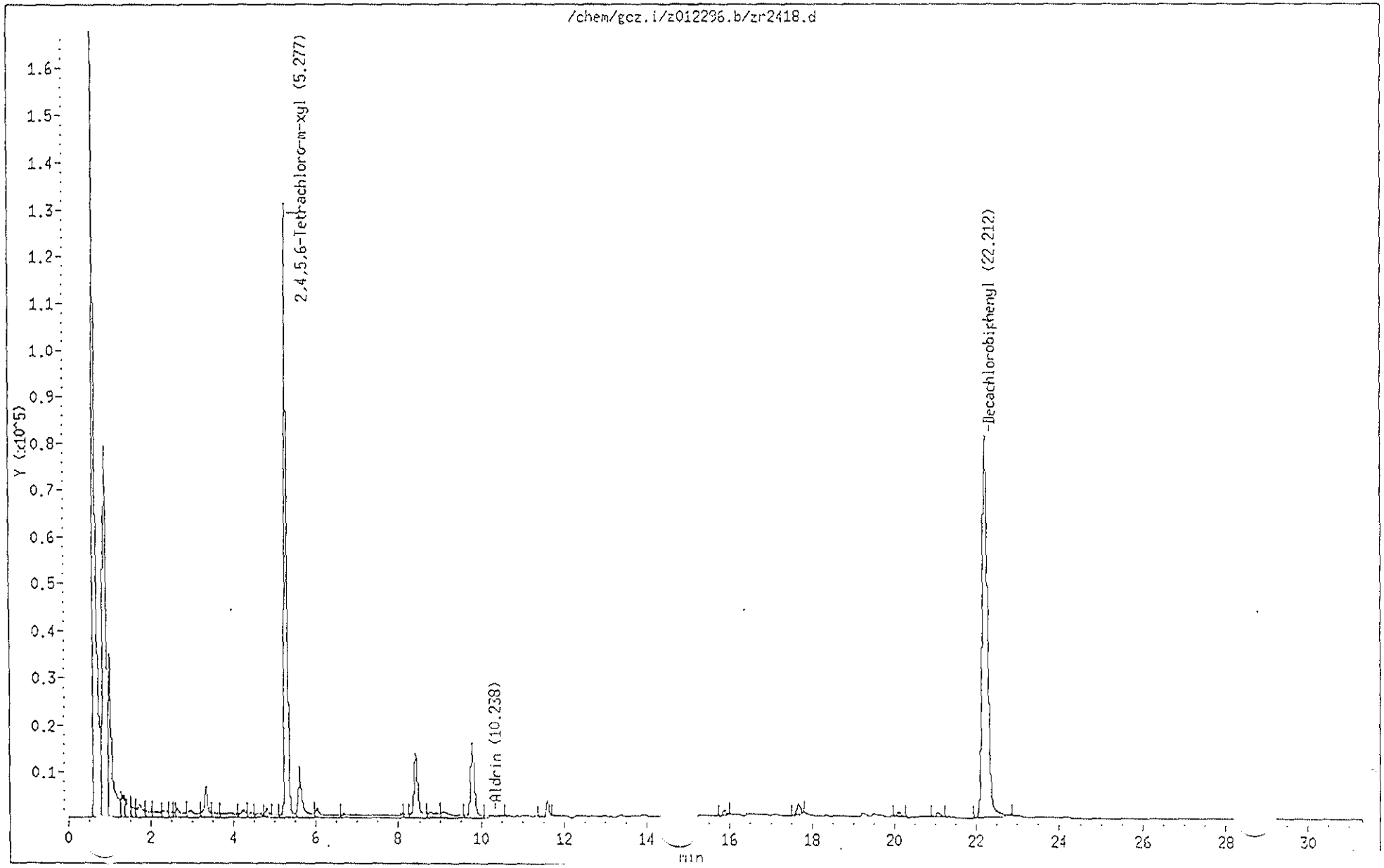
0526

Data File: /chem/gcz.i/z012296.b/zr2418.d
Date : 22-JAN-96 15:01
Client ID:
Sample Info: n1p60124p,n1p601

Instrument: gcz.i

Operator: art
Column diameter: 0.53

Column phase: DB-5



Data File: /chem/gcz.i/z012296.b/zf2398.d
Report Date: 23-Jan-1996 07:28

OHM Analytical Division

Data file : /chem/gcz.i/z012296.b/zf2398.d
Lab Smp Id:
Inj Date : 22-JAN-96 14:27
Operator : art   Inst ID: gcz.i
Smp Info : n1p60124p,n1p601
Misc Info : n1p60124p,n1p60124,g2,1,1
Comment :
Method : /chem/gcz.i/z012296.b/011996_8080_608.m
Meth Date : 23-Jan-1996 06:48   Quant Type: ESTD
Cal Date : 19-JAN-96 16:03   Cal File: zf2358.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie   Compound Sublist: all.sub
Target Version: 3.10

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
S 2,4,5,6-Tetrachloro-m-xylene	6.963	6.967	-0.004	2811032	0.390	0.390(R)
S 22 Decachlorobiphenyl	28.367	28.397	-0.030	3309107	0.412	0.412(R)

alc 1/23/96

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /chem/gcz.i/z012296.b/zr2418.d
Report Date: 23-Jan-1996 07:33

OHM Analytical Division

Data file : /chem/gcz.i/z012296.b/zr2418.d
Lab Smp Id:
Inj Date : 22-JAN-96 15:01
Operator : art Inst ID: gcz.i
Smp Info : n1p60124p,n1p601
Misc Info : n1p60124p,n1p601
Comment :
Method : /chem/gcz.i/z012296.b/011996_8080_db5.m
Meth Date : 23-Jan-1996 07:20 Quant Type: ESTD
Cal Date : 19-JAN-96 16:38 Cal File: zr2377.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/ml)
2,4,5,6-Tetrachloro-m-xylene	5.277	5.279	-0.002	2958453	0.399	0.399(R)
2 Alpha-BHC	Compound Not Detected.					
3 Beta-BHC	Compound Not Detected.					
4 Gamma-BHC (Lindane)	Compound Not Detected.					
5 Delta-BHC	Compound Not Detected.					
6 Heptachlor	Compound Not Detected.					
7 Aldrin	10.238	10.220	0.018	65293	0.00759	0.00759
8 Heptachlor epoxide	Compound Not Detected.					
9 gamma-Chlordane	Compound Not Detected.					
10 Endosulfan I	Compound Not Detected.					
11 alpha-Chlordane	Compound Not Detected.					
12 4,4'-DDE	Compound Not Detected.					
13 Dieldrin	Compound Not Detected.					
14 Endrin	Compound Not Detected.					
15 Endosulfan II	Compound Not Detected.					
16 4,4'-DDD	Compound Not Detected.					
17 Endrin aldehyde	Compound Not Detected.					
18 Endosulfan sulfate	Compound Not Detected.					
19 4,4'-DDT	Compound Not Detected.					
20 Endrin ketone	Compound Not Detected.					
21 Methoxychlor	Compound Not Detected.					
22 Decachlorobiphenyl	22.212	22.219	-0.007	3637982	0.405	0.405(R)

QC Flag Legend

. - Spike/Surrogate failed recovery limits.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET 0529

EPA SAMPLE NO.

CLJ78CS001MS

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2491PS

Sample wt/vol: 30.8 (g/mL) G Lab File ID: ZF2365

% Moisture: 18 decanted: (Y/N) N Date Received: 01/18/96

Extraction: (SepF/Cont/Sonc) 3540 Date Extracted: 01/18/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

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

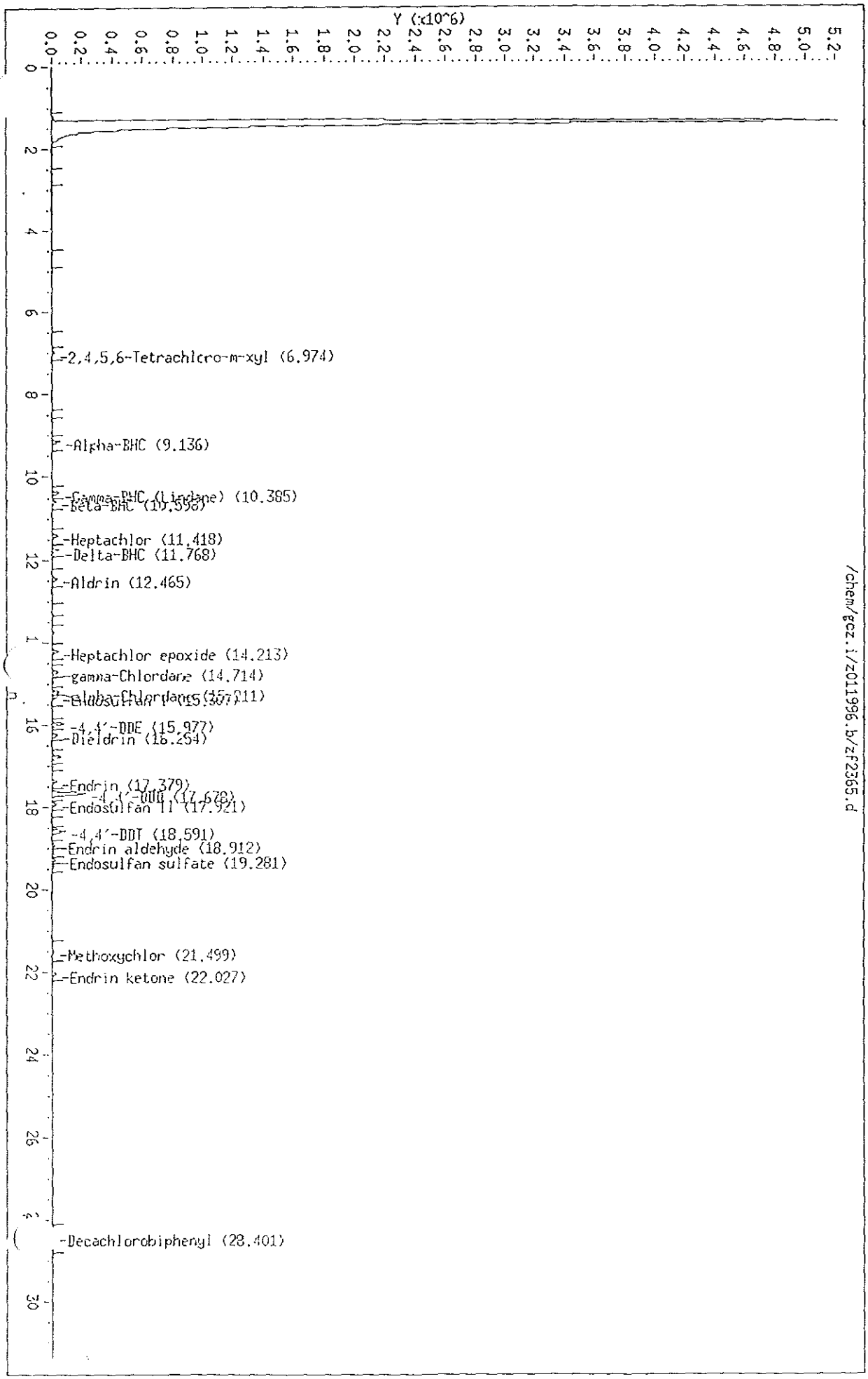
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	180	
319-85-7	beta-BHC	220	
319-86-8	delta-BHC	180	
76-44-8	Heptachlor	200	
309-00-2	Aldrin	190	
1024-57-3	Heptachlor epoxide	210	
959-98-8	Endosulfan I	220	
60-57-1	Dieldrin	230	
72-55-9	4,4'-DDE	460	
72-20-8	Endrin	220	
33213-65-9	Endosulfan II	190	
72-54-8	4,4'-DDD	1800	
1031-07-8	Endosulfan sulfate	190	
50-29-3	4,4'-DDT	690	
72-43-5	Methoxychlor	240	
53494-70-5	Endrin ketone	210	
7421-93-4	Endrin aldehyde	160	
8001-35-2	Toxaphene	390	U
12674-11-2	Aroclor-1016	200	U
11104-28-2	Aroclor-1221	200	U
11141-16-5	Aroclor-1232	200	U
53469-21-9	Aroclor-1242	200	U
12672-29-6	Aroclor-1248	200	U
11097-69-1	Aroclor-1254	200	U
11096-82-5	Aroclor-1260	200	U
57-74-9	Chlordane	440	
58-89-9	Gamma-BHC (Lindane)	210	

0530

Data File: /chem/gcz.i/z011996.b/zf2365.d
Date : 19-JAN-96 20:07
Client ID:
Sample Info: jp2491ps,n2p6012

Column phase: DB-608

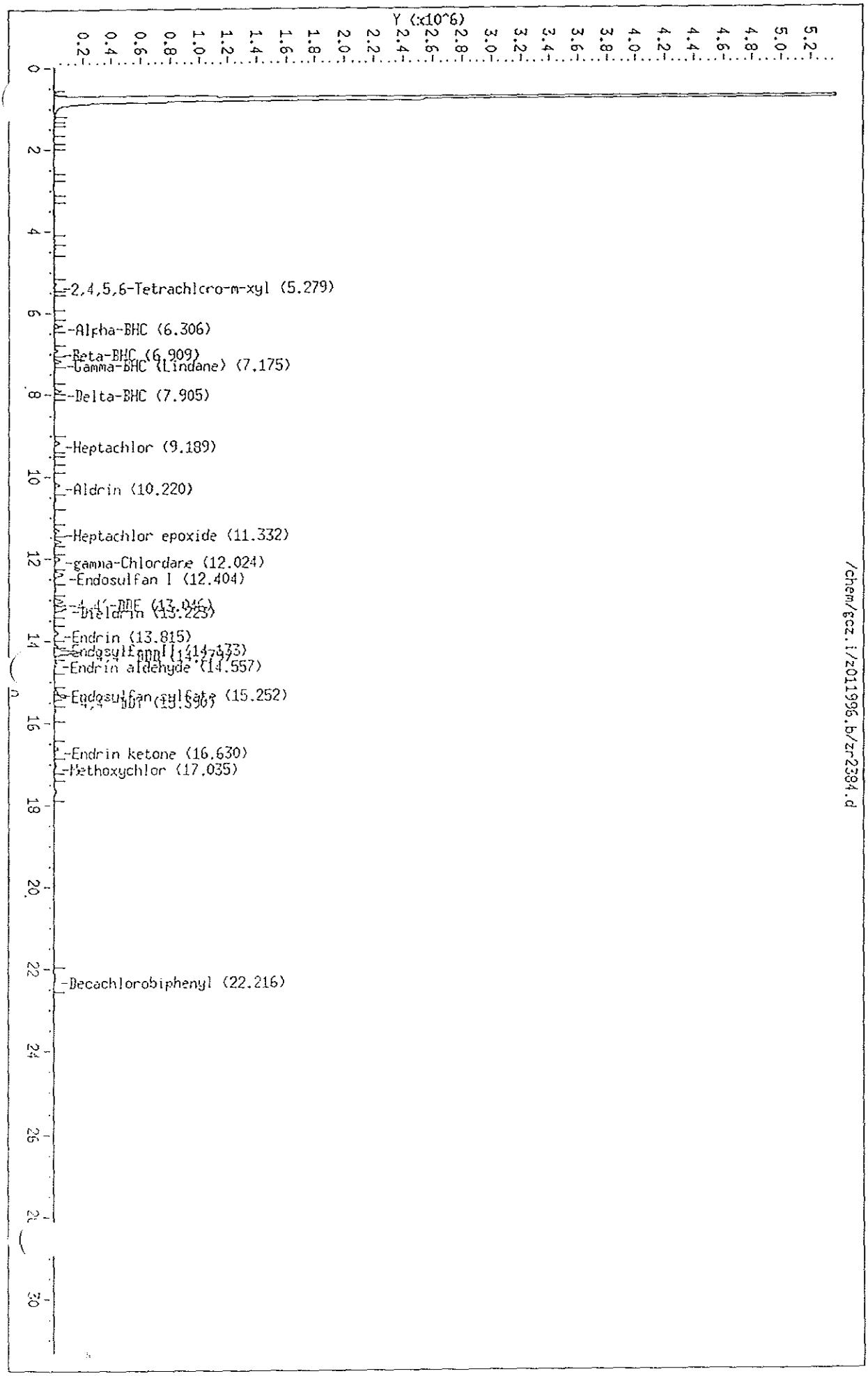
Instrument: gcz.i
Operator: art
Column diameter: 0.53



Data File: /chem/gcz.i/z011996.b/zr2384.d
Date : 19-JAN-96 20:42
Client ID:
Sample Info: jp2491ps,n2p6012

Column phase: DB-5

Instrument: gcz.i
Operator: art
Column diameter: 0.53



Data File: /chem/gcz.i/z011996.b/zf2365.d
Report Date: 20-Jan-1996 09:50

OHM Analytical Division

Data file : /chem/gcz.i/z011996.b/zf2365.d
Lab Smp Id:
Inj Date : 19-JAN-96 20:07
Operator : art Inst ID: gcz.i
Smp Info : jp2491ps,n2p6012
Misc Info : jp2491ps,n2p6012o,g2,1,10
Comment :
Method : /chem/gcz.i/z011996.b/011996_8080_608.m
Meth Date : 20-Jan-1996 09:41 Quant Type: ESTD
Cal Date : 19-JAN-96 16:03 Cal File: zf2358.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
	1 2,4,5,6-Tetrachloro-m-xylene	6.974	6.967	0.007	343900	0.0477	0.0477(R)
	2 Alpha-BHC	9.136	9.130	0.006	977407	0.0893	0.0893
	3 Gamma-BHC (Lindane)	10.385	10.380	0.005	970579	0.104	0.104
	4 Beta-BHC	10.593	10.591	0.007	533123	0.109	0.109
	5 Heptachlor	11.418	11.413	0.005	855893	0.103	0.103
	6 Delta-BHC	11.758	11.762	0.006	841832	0.0891	0.0891
	7 Aldrin	12.465	12.461	0.004	816627	0.0980	0.0980
	8 Heptachlor epoxide	14.213	14.209	0.004	818433	0.106	0.106
	9 gamma-Chlordane	14.714	14.710	0.004	894090	0.106	0.106
	10 alpha-Chlordane	15.211	15.207	0.004	940897	0.120	0.120
	11 Endosulfan I	15.307	15.304	0.003	849585	0.111	0.111
	12 4,4'-DDE	15.977	15.974	0.003	1696916	0.232	0.232
	13 Dieldrin	16.254	16.249	0.005	881244	0.117	0.117
	14 Endrin	17.379	17.374	0.005	704230	0.113	0.113
	15 4,4'-DDD	17.678	17.674	0.004	5071754	0.896	0.896
	16 Endosulfan II	17.921	17.918	0.003	645267	0.0957	0.0957
	17 4,4'-DDT	18.591	18.587	0.004	1982323	0.348	0.348
	18 Endrin aldehyde	18.912	18.908	0.004	446702	0.0803	0.0803
	19 Endosulfan sulfate	19.281	19.278	0.003	544649	0.0950	0.0950
	20 Methoxychlor	21.499	21.496	0.003	404042	0.120	0.120
	21 Endrin ketone	22.027	22.025	0.002	765795	0.106	0.106
S	22 Decachlorobiphenyl	28.401	28.397	0.004	483889	0.0602	0.0602(R)
M	23 Chlordane				1834988	0.225	0.225

ALL
1/20/96

Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /chem/gcz.i/z011996.b/zr2384.d
Report Date: 20-Jan-1996 09:53

OHM Analytical Division

Data file : /chem/gcz.i/z011996.b/zr2384.d
Lab Smp Id:
Inj Date : 19-JAN-96 20:42
Operator : art Inst ID: gcz.i
Smp Info : jp2491ps,n2p6012
Misc Info : jp2491ps,n2p6012
Comment :
Method : /chem/gcz.i/z011996.b/011996_8080_db5.m
Meth Date : 20-Jan-1996 09:43 Quant Type: ESTD
Cal Date : 19-JAN-96 16:38 Cal File: zr2377.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

		Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
S	1	2,4,5,6-Tetrachloro-m-xylene	5.279	5.279	0.000	351424	0.0474	0.0474(R)
	2	Alpha-BHC	6.306	6.307	-0.001	1009917	0.0970	0.0970
	3	Beta-BHC	6.909	6.908	0.001	553521	0.108	0.108
	4	Gamma-BHC (Lindane)	7.175	7.174	0.001	994556	0.102	0.102
	5	Delta-BHC	7.905	7.904	0.001	887759	0.0890	0.0890
	6	Heptachlor	9.189	9.190	-0.001	872251	0.101	0.101
	7	Aldrin	10.220	10.220	0.000	813908	0.0946	0.0946
	8	Heptachlor epoxide	11.332	11.334	-0.002	801552	0.100	0.100
	9	gamma-Chlordane	12.024	12.021	0.003	1104374	0.121	0.121
	10	Endosulfan I	12.404	12.406	-0.002	1877305	0.235	0.235
M	11	alpha-Chlordane				1877305	0.235	0.235
	12	4,4'-DDE	13.046	13.045	0.001	1533760	0.199	0.199
	13	Dieldrin	13.223	13.205	0.018	2333772	0.262	0.262
	14	Endrin	13.815	13.815	0.000	759353	0.112	0.112
	15	Endosulfan II	14.133	14.135	-0.002	621863	0.0880	0.0880
	16	4,4'-DDD	14.279	14.278	0.001	5606071	0.868	0.868
	17	Endrin aldehyde	14.557	14.558	-0.001	512860	0.0816	0.0816
	18	Endosulfan sulfate	15.252	15.252	0.000	596901	0.0948	0.0948
	19	4,4'-DDT	15.390	15.389	0.001	2224654	0.346	0.346
	20	Endrin ketone	16.630	16.632	-0.002	817049	0.104	0.104
	21	Methoxychlor	17.035	17.035	0.000	384332	0.110	0.110
S	22	Decachlorobiphenyl	22.216	22.219	-0.003	477726	0.0531	0.0531(R)

Flag Legend

R - Spike/Surrogate failed recovery limits.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET 0534

EPA SAMPLE NO.

CLJ78CS001MSD

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2491PR

Sample wt/vol: 30.7 (g/mL) G Lab File ID: ZF2366

% Moisture: 18 decanted: (Y/N) N Date Received: 01/18/96

Extraction: (SepF/Cont/Sonc) 3540 Date Extracted: 01/18/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/19/96

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

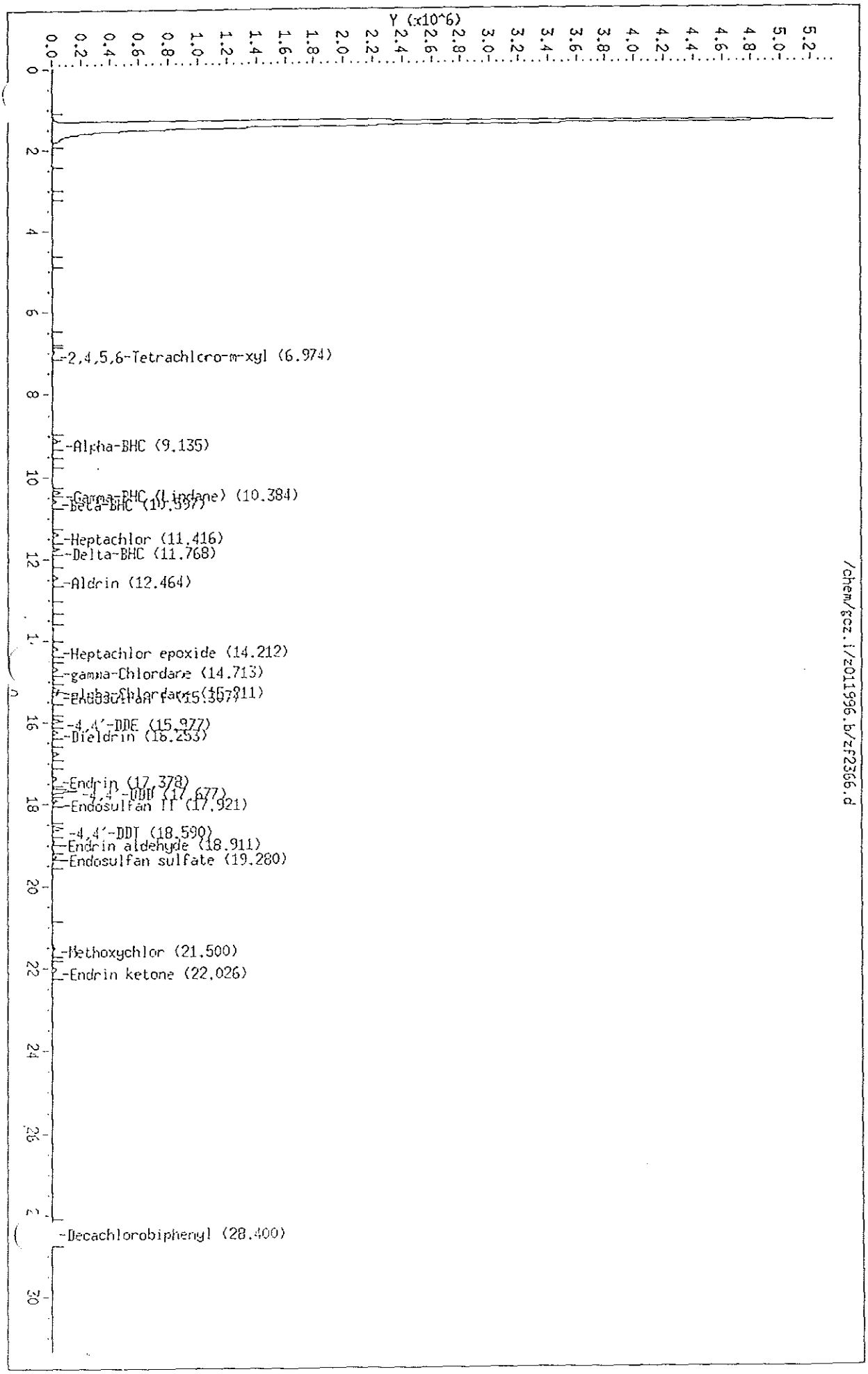
GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	190	
319-85-7	beta-BHC	230	
319-86-8	delta-BHC	180	
76-44-8	Heptachlor	220	
309-00-2	Aldrin	200	
1024-57-3	Heptachlor epoxide	220	
959-98-8	Endosulfan I	220	
60-57-1	Dieldrin	220	
72-55-9	4,4'-DDE	380	
72-20-8	Endrin	230	
33213-65-9	Endosulfan II	210	
72-54-8	4,4'-DDD	1300	
1031-07-8	Endosulfan sulfate	200	
50-29-3	4,4'-DDT	550	
72-43-5	Methoxychlor	260	
53494-70-5	Endrin ketone	220	
7421-93-4	Endrin aldehyde	180	
8001-35-2	Toxaphene	400	U
12674-11-2	Aroclor-1016	200	U
11104-28-2	Aroclor-1221	200	U
11141-16-5	Aroclor-1232	200	U
53469-21-9	Aroclor-1242	200	U
12672-29-6	Aroclor-1248	200	U
11097-69-1	Aroclor-1254	200	U
11096-82-5	Aroclor-1260	200	U
57-74-9	Chlordane	450	
58-89-9	Gamma-BHC (Lindane)	220	

Data File: /chem/gcz.i/z011996.b/zf2366.d
Date : 19-JAN-96 20:42
Client ID:
Sample Info: jp2491pr,n2p6012

Column phase: DB-608

Instrument: gcz.i
Operator: art
Column diameter: 0.53



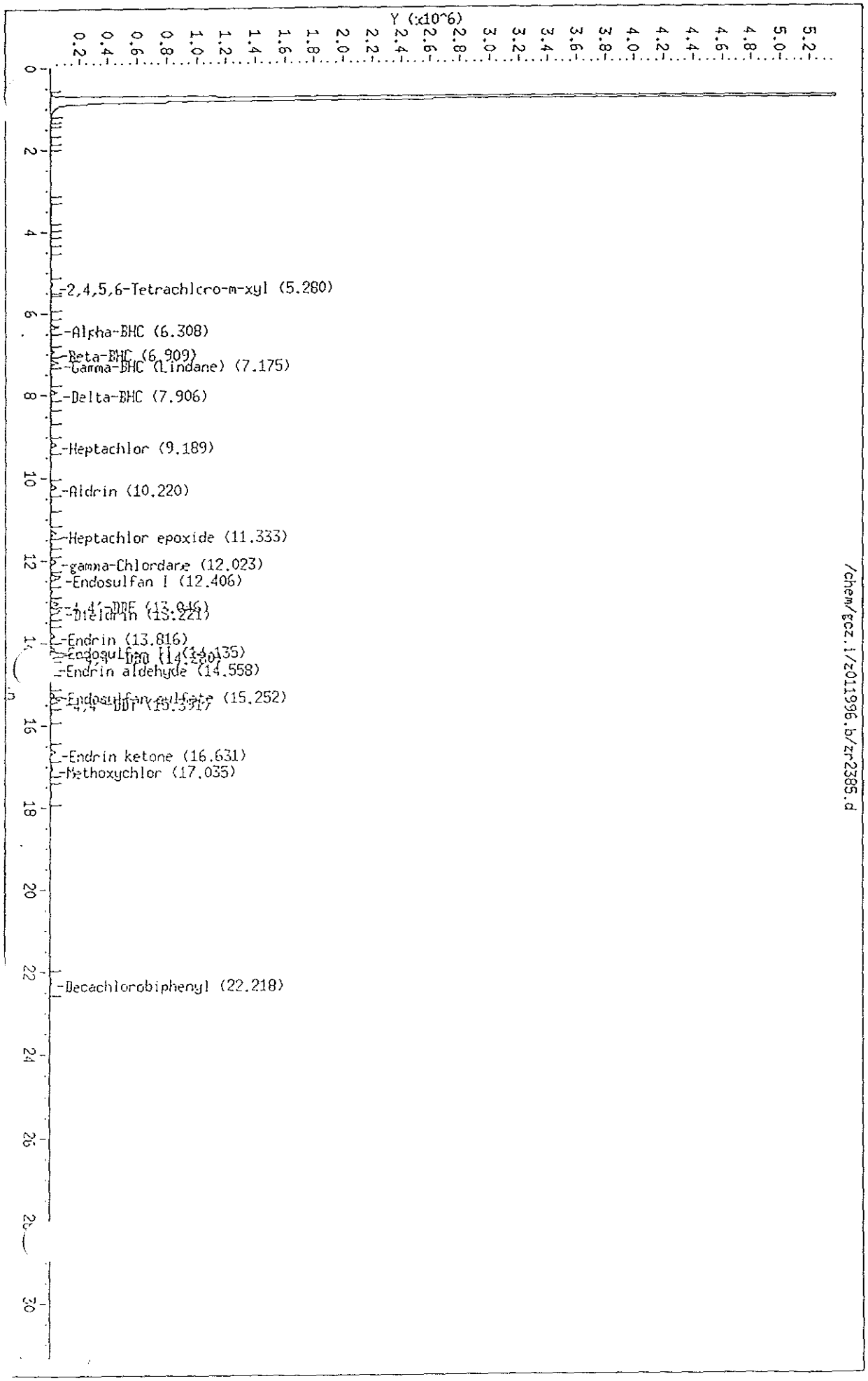
/chem/gcz.i/z011996.b/zf2366.d

Data File: /chem/gcz.i/z011996.b/zr2385.d
Date : 19-JAN-96 21:17
Client ID:
Sample Info: jp2491pr,n2p6012

Column phase: DB-5

Instrument: gcz.i

Operator: art
Column diameter: 0.53



Data File: /chem/gcz.i/z011996.b/zf2366.d
Report Date: 20-Jan-1996 09:50

OHM Analytical Division

Data file : /chem/gcz.i/z011996.b/zf2366.d
Lab Smp Id:
Inj Date : 19-JAN-96 20:42
Operator : art Inst ID: gcz.i
Smp Info : jp2491pr,n2p6012
Misc Info : jp2491pr,n2p60120,g2,1,10
Comment :
Method : /chem/gcz.i/z011996.b/011996_8080_608.m
Meth Date : 20-Jan-1996 09:41 Quant Type: ESTD
Cal Date : 19-JAN-96 16:03 Cal File: zf2358.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

		Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/ml)
S	1	2,4,5,6-Tetrachloro-m-xylene	6.974	6.967	0.007	389896	0.0541	0.0541(R) ✓
	2	Alpha-BHC	9.135	9.130	0.005	1038871	0.0949	0.0949
	3	Gamma-BHC (Lindane)	10.384	10.380	0.004	1018004	0.109	0.109
	4	Beta-BHC	10.597	10.591	0.006	560505	0.114	0.114
	5	Heptachlor	11.416	11.413	0.003	905040	0.109	0.109
	6	Delta-BHC	11.768	11.762	0.006	876431	0.0928	0.0928
	7	Aldrin	12.464	12.461	0.003	858865	0.103	0.103
	8	Heptachlor epoxide	14.212	14.209	0.003	844278	0.110	0.110
	9	gamma-Chlordane	14.713	14.710	0.003	912184	0.108	0.108
	10	alpha-Chlordane	15.211	15.207	0.004	947362	0.121	0.121
	11	Endosulfan I	15.307	15.304	0.003	852542	0.111	0.111
	12	4,4'-DDE	15.977	15.974	0.003	1418143	0.194	0.194
	13	Dieldrin	16.253	16.249	0.004	851664	0.113	0.113
	14	Endrin	17.378	17.374	0.004	715341	0.115	0.115
	15	4,4'-DDD	17.677	17.674	0.003	3809664	0.673	0.673
	16	Endosulfan II	17.921	17.918	0.003	709352	0.105	0.105
	17	4,4'-DDT	18.590	18.587	0.003	1585810	0.279	0.279
	18	Endrin aldehyde	18.911	18.908	0.003	501678	0.0902	0.0902
	19	Endosulfan sulfate	19.280	19.278	0.002	592937	0.103	0.103
	20	Methoxychlor	21.500	21.496	0.004	438598	0.130	0.130
	21	Endrin ketone	22.026	22.025	0.001	797961	0.110	0.110
S	22	Decachlorobiphenyl	28.400	28.397	0.003	484631	0.0603	0.0603(R) ✓
M	23	Chlordane				1859546	0.228	0.228

1/20/96

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /chem/gcz.i/z011996.b/zr2385.d
Report Date: 20-Jan-1996 09:53

OHM Analytical Division

Data file : /chem/gcz.i/z011996.b/zr2385.d
Lab Smp Id:
Inj Date : 19-JAN-96 21:17
Operator : art Inst ID: gcz.i
Smp Info : jp2491pr,n2p6012
Misc Info : jp2491pr,n2p6012
Comment :
Method : /chem/gcz.i/z011996.b/011996_8080_db5.m
Meth Date : 20-Jan-1996 09:43 Quant Type: ESTD
Cal Date : 19-JAN-96 16:38 Cal File: zr2377.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
	1 2,4,5,6-Tetrachloro-m-xylene	5.280	5.279	0.001	394773	0.0533	0.0533(R)
	2 Alpha-BHC	6.308	6.307	0.001	1076795	0.103	0.103
	3 Beta-BHC	6.909	6.908	0.001	578977	0.113	0.113
	4 Gamma-BHC (Lindane)	7.175	7.174	0.001	1044397	0.107	0.107
	5 Delta-BHC	7.906	7.904	0.002	924209	0.0927	0.0927
	6 Heptachlor	9.189	9.190	-0.001	925346	0.107	0.107
	7 Aldrin	10.220	10.220	0.000	850917	0.0989	0.0989
	8 Heptachlor epoxide	11.333	11.334	-0.001	830270	0.104	0.104
	9 gamma-Chlordane	12.023	12.021	0.002	1067469	0.117	0.117
	10 Endosulfan I	12.406	12.406	0.000	1895535	0.237	0.237
M	11 alpha-Chlordane				1895535	0.237	0.237
	12 4,4'-DDE	13.046	13.045	0.001	1325143	0.172	0.172
	13 Dieldrin	13.221	13.205	0.016	1880155	0.211	0.211
	14 Endrin	13.816	13.815	0.001	762920	0.113	0.113
	15 Endosulfan II	14.135	14.135	0.000	702905	0.0994	0.0994
	16 4,4'-DDD	14.280	14.278	0.002	4225458	0.654	0.654
	17 Endrin aldehyde	14.558	14.558	0.000	583894	0.0929	0.0929
	18 Endosulfan sulfate	15.252	15.252	0.000	639598	0.102	0.102
	19 4,4'-DDT	15.391	15.389	0.002	1771938	0.275	0.275
	20 Endrin ketone	16.631	16.632	-0.001	861667	0.110	0.110
	21 Methoxychlor	17.035	17.035	0.000	395567	0.113	0.113
S	22 Decachlorobiphenyl	22.218	22.219	-0.001	480168	0.0534	0.0534(R)

Flag Legend

R - Spike/Surrogate failed recovery limits.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET 0539

EPA SAMPLE NO.

PSPK01 A

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: N2P60120PS

Sample wt/vol: 30.0 (g/mL) G Lab File ID: ZF2364

% Moisture: N/A decanted: (Y/N) N Date Received: 1/18/96

Extraction: (SepF/Cont/Sonc) 3540 Date Extracted: 01/18/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/19/96

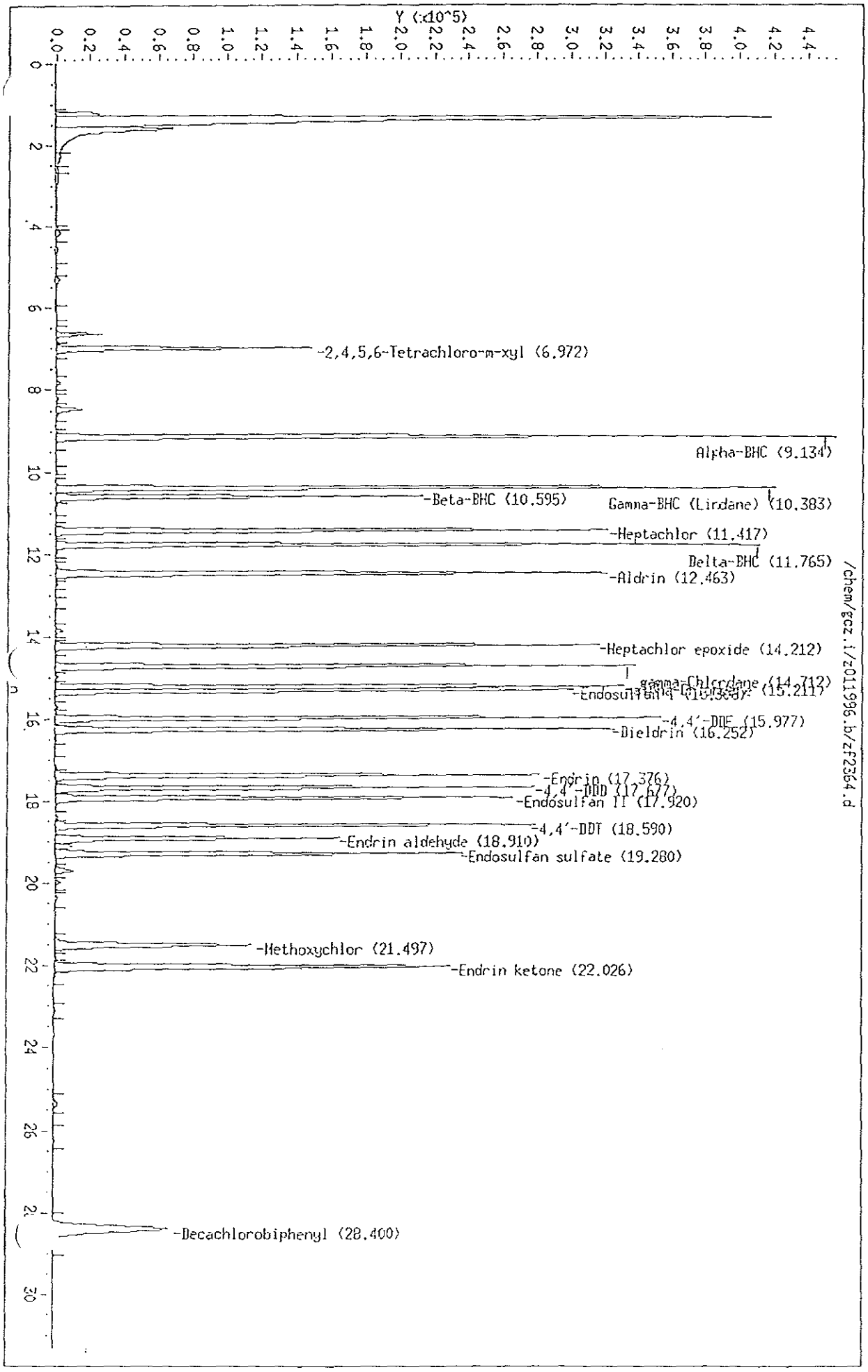
Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	150	
319-85-7	beta-BHC	160	
319-86-8	delta-BHC	150	
76-44-8	Heptachlor	160	
309-00-2	Aldrin	170	
1024-57-3	Heptachlor epoxide	170	
959-98-8	Endosulfan I	170	
60-57-1	Dieldrin	180	
72-55-9	4,4'-DDE	180	
72-20-8	Endrin	180	
33213-65-9	Endosulfan II	160	
72-54-8	4,4'-DDD	180	
1031-07-8	Endosulfan sulfate	160	
50-29-3	4,4'-DDT	190	
72-43-5	Methoxychlor	170	
53494-70-5	Endrin ketone	170	
7421-93-4	Endrin aldehyde	120	
8001-35-2	Toxaphene	33	U
12674-11-2	Aroclor-1016	17	U
11104-28-2	Aroclor-1221	17	U
11141-16-5	Aroclor-1232	17	U
53469-21-9	Aroclor-1242	17	U
12672-29-6	Aroclor-1248	17	U
11097-69-1	Aroclor-1254	17	U
11096-82-5	Aroclor-1260	17	U
57-74-9	Chlordane	320	
58-89-9	Gamma-BHC (Lindane)	170	

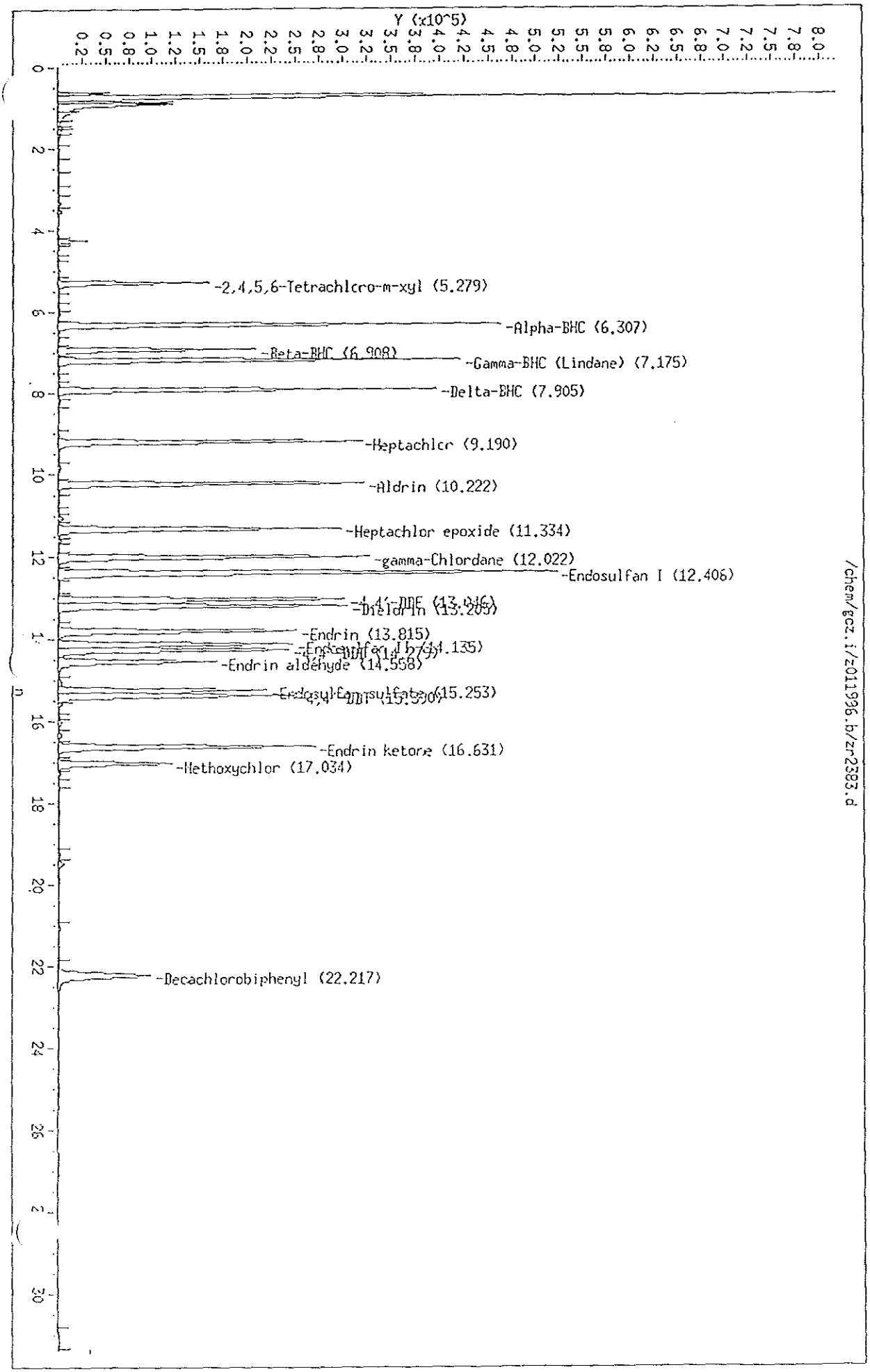
Data File: /chem/gcz.i/z011996.b/zf2364.d
Date : 19-JAN-96 19:33
Client ID:
Sample Info: n2p60120ps,n2p60
Column phase: DB-608

Instrument: gcz.i
Operator: art
Column diameter: 0.53



Data File: /chem/gcz.i/z011996.b/zr2383.d
Date : 19-JAN-96 20:07
Client ID:
Sample Info: n2p60120ps,n2p60
Column phase: DB-5

Instrument: gcz.i
Operator: art
Column diameter: 0.53



Data File: /chem/gcz.i/z011996.b/zf2364.d
Report Date: 20-Jan-1996 09:49

OHM Analytical Division

Data file : /chem/gcz.i/z011996.b/zf2364.d
Lab Smp Id:
Inj Date : 19-JAN-96 19:33
Operator : art Inst ID: gcz.i
Smp Info : n2p60120ps,n2p60
Misc Info : n2p60120ps,n2p60120,g2,1,1
Comment :
Method : /chem/gcz.i/z011996.b/011996_8080_608.m
Meth Date : 20-Jan-1996 09:41 Quant Type: ESTD
Cal Date : 19-JAN-96 16:03 Cal File: zf2358.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
	1 2,4,5,6-Tetrachloro-m-xylene	6.972	6.967	0.005	3437336	0.477	0.477(R)
	2 Alpha-BHC	9.134	9.130	0.004	10151133	0.927	0.927
	3 Gamma-BHC (Lindane)	10.383	10.380	0.003	9369462	1.00	1.00
	4 Beta-BHC	10.595	10.591	0.004	4659960	0.950	0.950
	5 Heptachlor	11.417	11.413	0.004	8050396	0.972	0.972
	6 Delta-BHC	11.765	11.762	0.003	8701943	0.921	0.921
	7 Aldrin	12.463	12.461	0.002	8277573	0.994	0.994
	8 Heptachlor epoxide	14.212	14.209	0.003	7750890	1.00	1.00
	9 gamma-Chlordane	14.712	14.710	0.002	8357554	0.988	0.988
	10 alpha-Chlordane	15.211	15.207	0.004	7433083	0.948	0.948
	11 Endosulfan I	15.306	15.304	0.002	7967702	1.04	1.04
	12 4,4'-DDE	15.977	15.974	0.003	7934706	1.08	1.08
	13 Dieldrin	16.252	16.249	0.003	8052690	1.07	1.07
	14 Endrin	17.376	17.374	0.002	6873828	1.10	1.10
	15 4,4'-DDD	17.677	17.674	0.003	6179598	1.09	1.09
	16 Endosulfan II	17.920	17.918	0.002	6458530	0.958	0.958
	17 4,4'-DDT	18.590	18.587	0.003	6358057	1.12	1.12
	18 Endrin aldehyde	18.910	18.908	0.002	3997917	0.719	0.719
	19 Endosulfan sulfate	19.280	19.278	0.002	5666563	0.988	0.988
	20 Methoxychlor	21.497	21.496	0.001	3520323	1.04	1.04
	21 Endrin ketone	22.026	22.025	0.001	7468183	1.03	1.03
S	22 Decachlorobiphenyl	28.400	28.397	0.003	3938919	0.490	0.490(R)
M	23 Chlordane				15790638	1.94	1.94

Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /chem/gcz.i/z011996.b/zr2383.d
Report Date: 20-Jan-1996 09:53

OHM Analytical Division

Data file : /chem/gcz.i/z011996.b/zr2383.d
Lab Smp Id:
Inj Date : 19-JAN-96 20:07
Operator : art Inst ID: gcz.i
Smp Info : n2p60120ps,n2p60
Misc Info : n2p60120ps,n2p60
Comment :
Method : /chem/gcz.i/z011996.b/011996_8080_db5.m
Meth Date : 20-Jan-1996 09:43 Quant Type: ESTD
Cal Date : 19-JAN-96 16:38 Cal File: zr2377.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
	1 2,4,5,6-Tetrachloro-m-xylene	5.279	5.279	0.000	3632578	0.490	0.490(R)
	2 Alpha-BHC	6.307	6.307	0.000	10618353	1.02	1.02
	3 Beta-BHC	6.908	6.908	0.000	5012314	0.982	0.982
	4 Gamma-BHC (Lindane)	7.175	7.174	0.001	9944397	1.02	1.02
	5 Delta-BHC	7.905	7.904	0.001	9314512	0.934	0.934
	6 Heptachlor	9.190	9.190	0.000	8576356	0.994	0.994
	7 Aldrin	10.222	10.220	0.002	8700757	1.01	1.01
	8 Heptachlor epoxide	11.334	11.334	0.000	8272869	1.04	1.04
	9 gamma-Chlordane	12.022	12.021	0.001	9255608	1.01	1.01
	10 Endosulfan I	12.406	12.406	0.000	15534459	1.94	1.94
M	11 alpha-Chlordane				15534459	1.94	1.94
	12 4,4'-DDE	13.046	13.045	0.001	8450890	1.10	1.10
	13 Dieldrin	13.205	13.205	0.000	8764943	0.985	0.985
	14 Endrin	13.815	13.815	0.000	7277969	1.08	1.08
	15 Endosulfan II	14.135	14.135	0.000	6921230	0.979	0.979
	16 4,4'-DDD	14.279	14.278	0.001	7072377	1.10	1.10
	17 Endrin aldehyde	14.558	14.558	0.000	5165996	0.822	0.822
	18 Endosulfan sulfate	15.253	15.252	0.001	6180584	0.981	0.981
	19 4,4'-DDT	15.390	15.389	0.001	7303955	1.13	1.13
	20 Endrin ketone	16.631	16.632	-0.001	8027088	1.02	1.02
	21 Methoxychlor	17.034	17.035	-0.001	3607865	1.03	1.03
S	22 Decachlorobiphenyl	22.217	22.219	-0.002	6469017	0.720	0.720(R)

Flag Legend

R - Spike/Surrogate failed recovery limits.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET 0544

EPA SAMPLE NO.

PSPK01B

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: NA Case No.: 17418N SAS No.: NA SDG No.: CLJ78CS001

Matrix: (soil/water) WATER Lab Sample ID: N1P60124PS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: ZF2399

% Moisture: NA decanted: (Y/N) N Date Received: 1/18/96

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 01/19/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/22/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

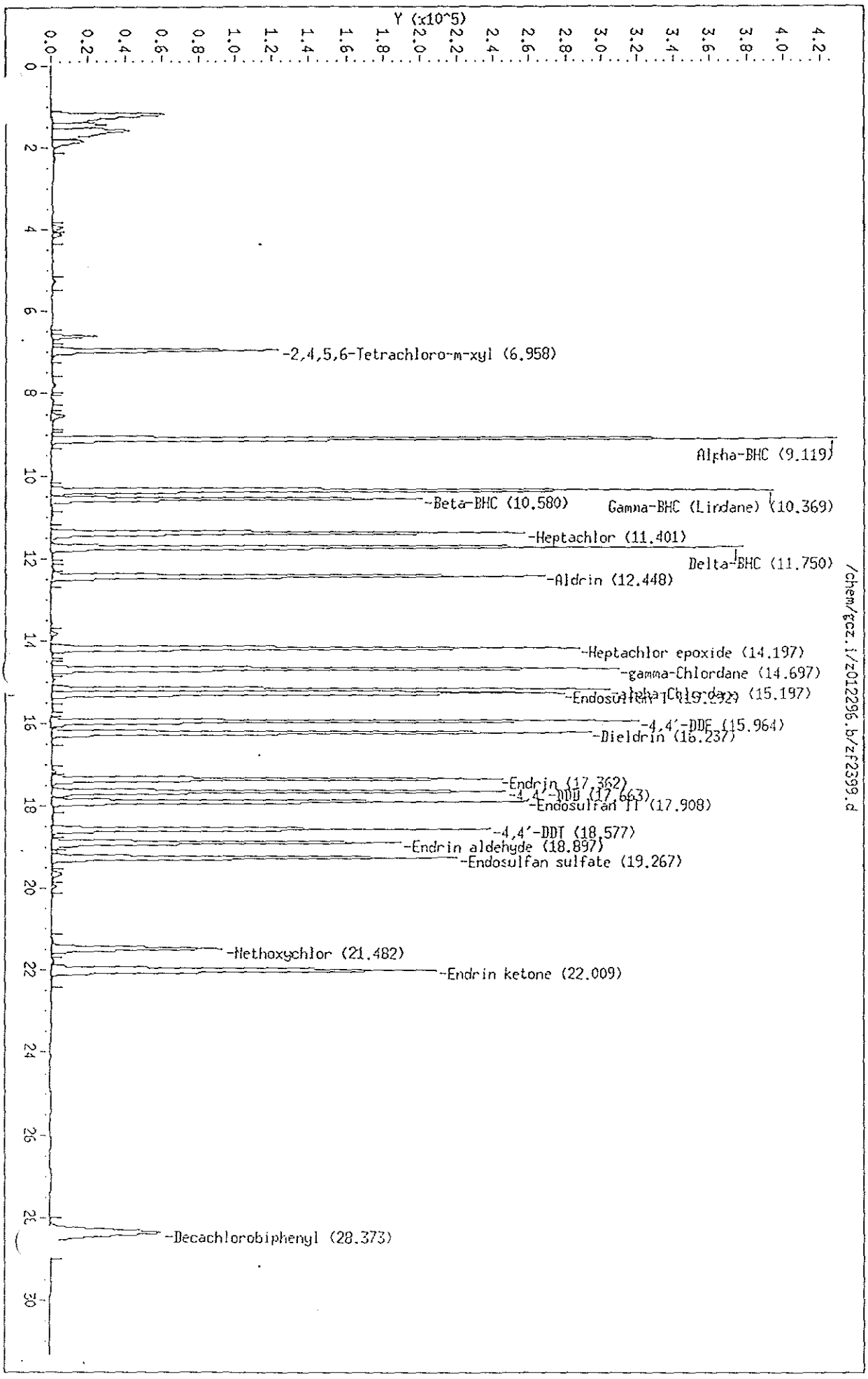
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	.87	
319-85-7	beta-BHC	.91	
319-86-8	delta-BHC	.85	
76-44-8	Heptachlor	.79	
309-00-2	Aldrin	.82	
1024-57-3	Heptachlor epoxide	.91	
959-98-8	Endosulfan I	.91	
60-57-1	Dieldrin	.95	
72-55-9	4,4'-DDE	.99	
72-20-8	Endrin	.97	
33213-65-9	Endosulfan II	.93	
72-54-8	4,4'-DDD	.97	
1031-07-8	Endosulfan sulfate	.93	
50-29-3	4,4'-DDT	.95	
72-43-5	Methoxychlor	.84	
53494-70-5	Endrin ketone	.95	
7421-93-4	Endrin aldehyde	.84	
8001-35-2	Toxaphene	.20	U
12674-11-2	Aroclor-1016	.10	U
11104-28-2	Aroclor-1221	.10	U
11141-16-5	Aroclor-1232	.10	U
53469-21-9	Aroclor-1242	.10	U
12672-29-6	Aroclor-1248	.10	U
11097-69-1	Aroclor-1254	.10	U
11096-82-5	Aroclor-1260	.10	U
58-89-9	Gamma-BHC (Lindane)	.95	
57-74-9	Chlordane	1.8	

Data File: /chem/gcz.i/z012296.b/zf2399.d
Date : 22-JAN-96 15:01
Client ID:
Sample Info: n1p60124ps.n1p60

Column phase: DB-608

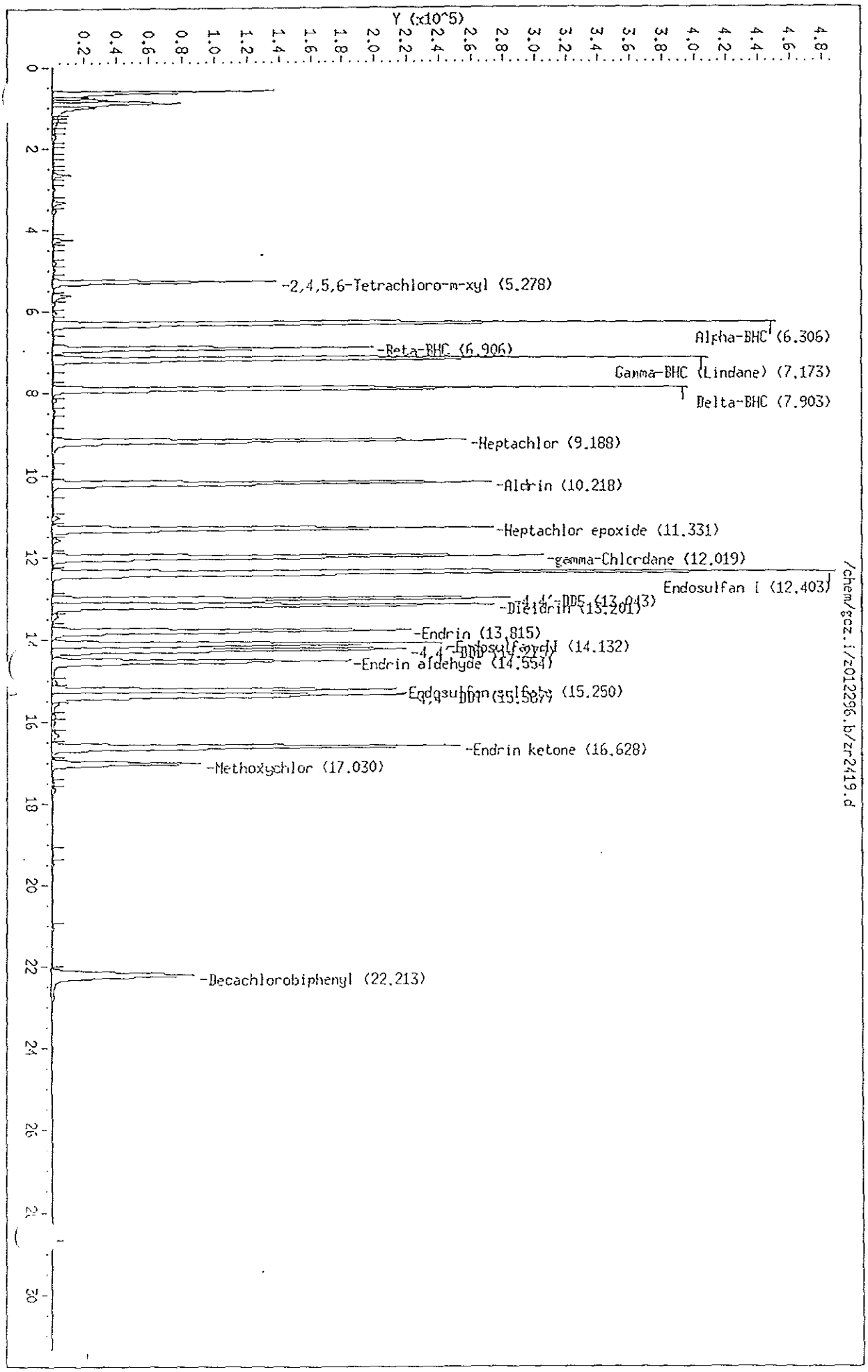
Instrument: gcz.i
Operator: art
Column diameter: 0.53



Data File: /chem/gcz.i/z012296.b/zr2419.d
Date : 22-JAN-96 15:36
Client ID:
Sample Info: n1p60124ps.n1p60

Column phase: DB-5

Instrument: gcz.i
Operator: art
Column diameter: 0.53



Data File: /chem/gcz.i/z012296.b/zf2399.d
Report Date: 23-Jan-1996 07:28

OHM Analytical Division

Data file : /chem/gcz.i/z012296.b/zf2399.d
Lab Smp Id:
Inj Date : 22-JAN-96 15:01
Operator : art Inst ID: gcz.i
Smp Info : n1p60124ps,n1p60
Misc Info : n1p60124ps,n1p60124,g2,1,1
Comment :
Method : /chem/gcz.i/z012296.b/011996_8080_608.m
Meth Date : 23-Jan-1996 06:48 Quant Type: ESTD
Cal Date : 19-JAN-96 16:03 Cal File: zf2358.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
	1 2,4,5,6-Tetrachloro-m-xylene	6.958	6.967	-0.009	2890870	0.401	0.401(R)
	2 Alpha-BHC	9.119	9.130	-0.011	9546835	0.872	0.872
	3 Gamma-BHC (Lindane)	10.369	10.380	-0.011	8372760	0.947	0.947
	4 Beta-BHC	10.580	10.591	-0.011	4440780	0.906	0.906
	5 Heptachlor	11.401	11.413	-0.012	6499973	0.785	0.785
	6 Delta-BHC	11.750	11.762	-0.012	8038335	0.851	0.851
	7 Aldrin	12.448	12.461	-0.013	6825697	0.820	0.820
	8 Heptachlor epoxide	14.197	14.209	-0.012	7049470	0.914	0.914
	9 gamma-Chlordane	14.697	14.710	-0.013	7578074	0.907	0.907
	10 alpha-Chlordane	15.197	15.207	-0.010	7261195	0.926	0.926
	11 Endosulfan I	15.292	15.304	-0.012	6944649	0.905	0.905
	12 4,4'-DDE	15.964	15.974	-0.010	7257233	0.990	0.990
	13 Dieldrin	16.237	16.249	-0.012	7168094	0.950	0.950
	14 Endrin	17.362	17.374	-0.012	6039510	0.971	0.971
	15 4,4'-DDD	17.663	17.674	-0.011	5513462	0.974	0.974
	16 Endosulfan II	17.908	17.918	-0.010	5294430	0.933	0.933
	17 4,4'-DDT	18.577	18.587	-0.010	5412058	0.951	0.951
	18 Endrin aldehyde	18.897	18.908	-0.011	4654909	0.837	0.837
	19 Endosulfan sulfate	19.267	19.278	-0.011	5304690	0.925	0.925
	20 Methoxychlor	21.482	21.496	-0.014	2821427	0.837	0.837
	21 Endrin ketone	22.009	22.025	-0.016	5896089	0.953	0.953
$	22 Decachlorobiphenyl	23.373	23.397	-0.024	3482005	0.433	0.433(R)
M	23 Chlordane				14939270	1.83	1.83

ac 1/23/96

Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /chem/gcz.i/z012296.b/zr2419.d
Report Date: 23-Jan-1996 07:33

OHM Analytical Division

Data file : /chem/gcz.i/z012296.b/zr2419.d
Lab Smp Id:
Inj Date : 22-JAN-96 15:36
Operator : art Inst ID: gcz.i
Smp Info : n1p60124ps,n1p60
Misc Info : n1p60124ps,n1p60
Comment :
Method : /chem/gcz.i/z012296.b/011996_8080_db5.m
Meth Date : 23-Jan-1996 07:20 Quant Type: ESTD
Cal Date : 19-JAN-96 16:38 Cal File: zr2377.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
	1 2,4,5,6-Tetrachloro-m-xylene	5.278	5.279	-0.001	3113851	0.420	0.420(R)
	2 Alpha-BHC	6.306	6.307	-0.001	10291462	0.989	0.989
	3 Beta-BHC	6.906	6.908	-0.002	4728783	0.926	0.926
	4 Gamma-BHC (Lindane)	7.173	7.174	-0.001	9599317	0.984	0.984
	5 Delta-BHC	7.903	7.904	-0.001	9216989	0.924	0.924
	6 Heptachlor	9.188	9.190	-0.002	6930907	0.803	0.803
	7 Aldrin	10.218	10.220	-0.002	7325219	0.851	0.851
	8 Heptachlor epoxide	11.331	11.334	-0.003	7518910	0.942	0.942
	9 gamma-Chlordane	12.019	12.021	-0.002	8631828	0.944	0.944
	10 Endosulfan I	12.403	12.406	-0.003	14479227	1.81	1.81
M	11 alpha-Chlordane				14479227	1.81	1.81
	12 4,4'-DDE	13.043	13.045	-0.002	7955330	1.03	1.03
	13 Dieldrin	13.201	13.205	-0.004	7775450	0.874	0.874
	14 Endrin	13.815	13.815	0.000	6414624	0.949	0.949
	15 Endosulfan II	14.132	14.135	-0.003	6772006	0.958	0.958
	16 4,4'-DDD	14.275	14.278	-0.003	6293590	0.975	0.975
	17 Endrin aldehyde	14.554	14.558	-0.004	5575521	0.887	0.887
	18 Endosulfan sulfate	15.250	15.252	-0.002	5943587	0.944	0.944
	19 4,4'-DDT	15.387	15.389	-0.002	6421067	0.998	0.998
	20 Endrin ketone	16.628	16.632	-0.004	7428223	0.948	0.948
	21 Methoxychlor	17.030	17.035	-0.005	2801417	0.800	0.800
S	22 Decachlorobiphenyl	22.213	22.219	-0.006	4660533	0.518	0.518(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ORGANICS

Total Petroleum Hydrocarbons by IR

3C (IR)
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix Spike - EPA Sample No.: CLJ78CS001 Level: (low/med) ____

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Petroleum Hydrocarbons (	83000	820000	1600000	940 *	30-130

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Petroleum Hydrocarbons (	84000	1000000	214 *	126 *	20	30-130

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

* Values outside of QC limits

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

COMMENTS: _____

3C (IR)
SOIL SEMIVOLATILE BLANK SPIKE RECOVERY

0551

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix Spike - EPA Sample No.: TSPK01A

COMPOUND	SPIKE ADDED (ug/Kg)	BLANK CONCENTRATION (ug/Kg)	BS CONCENTRATION (ug/Kg)	BS % REC #	QC LIMITS REC.
Petroleum Hydrocarbons (	69000	0	62000	90	30-130

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

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits

COMMENTS:

3D (IR)
WATER SEMIVOLATILE BLANK SPIKE RECOVERY

0552

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix Spike - EPA Sample No.: TSPK01B

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC LIMITS REC.
Petroleum Hydrocarbons (	2100	0	1700	82	30-130

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

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits

COMMENTS:

4B (GC)
SEMIVOLATILE METHOD BLANK SUMMARY

0553 EPA SAMPLE NO.

TBLK01A

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Lab File ID: IR8181 Lab Sample ID: N2T60121T

Instrument ID: PK Date Extracted: 01/19/96

Matrix: (soil/water) SOIL Date Analyzed: 01/22/96

Level: (low/med) _____ Time Analyzed: 13:08

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	CLJ78CS001	JP2491T	IR8185	01/22/96
02	CLJ78CS002	JP2492T	IR8198	01/22/96
03	CLJ78CS003	JP2493T	IR8189	01/22/96
04	CLJ78CS004	JP2494T	IR8192	01/22/96
05	CLJ78CS005	JP2495T	IR8193	01/22/96
06	CLJ78DS005	JP2496T	IR8194	01/22/96
07	CLJ78CS001MSD	JP2491TR	IR8187	01/22/96
08	TSPK01A	N2T60121TS	IR8182	01/22/96
09	CLJ78CS001MS	JP2491TS	IR8186	01/22/96

COMMENTS:

4B (GC)
SEMIVOLATILE METHOD BLANK SUMMARY 0554 EPA SAMPLE NO.

TBLK01B

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Lab File ID: IR8155 Lab Sample ID: N1T60127T

Instrument ID: PK Date Extracted: 01/19/96

Matrix: (soil/water) WATER Date Analyzed: 01/19/96

Level: (low/med) _____ Time Analyzed: 14:45

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	CLJ78RB001	JP2497T	IR8165	01/19/96
~~02~~	~~CLJ78FB001~~	~~JP2542T~~	~~IR8163~~	~~01/19/96~~
03	TSPK01B	N1T60127TS	IR8156	01/19/96

COMMENTS:

1B (GC)
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 0555

EPA SAMPLE NO.

CLJ78CS001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2491T

Sample wt/vol: 30.4 (g/mL) G Lab File ID: IR8185

Level: (low/med) Date Received: 01/18/96

% Moisture: 18 decanted: (Y/N) N Date Extracted: 01/19/96

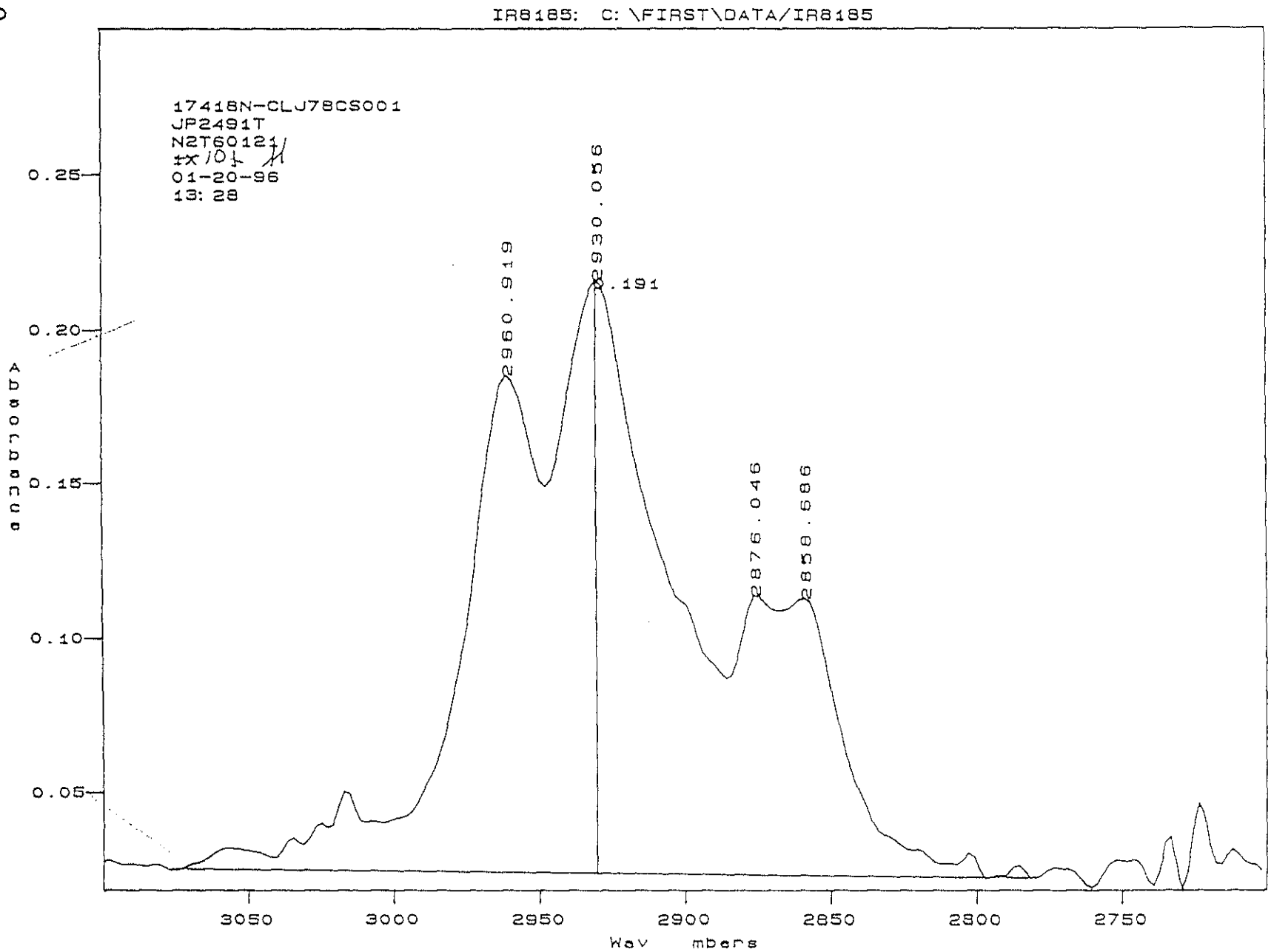
Concentrated Extract Volume: 200000 (uL) Date Analyzed: 01/22/96

Injection Volume: (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
	Petroleum Hydrocarbons (IR)	820000	

0556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17418N-CLJ78CS001
JP2491T
N2T60121
01-20-96
13:28
2960.919
2930.056
.191
2876.046
2858.686
0.25
0.20
0.15
0.10
0.05
Absorbance
3050
3000
2950
2900
2850
2800
2750
Wav mbers

1B (GC)
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 0557

EPA SAMPLE NO.

CLJ78CS002

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2492T

Sample wt/vol: 30.5 (g/mL) G Lab File ID: IR8198

Level: (low/med) Date Received: 01/18/96

% Moisture: 15 decanted: (Y/N) N Date Extracted: 01/19/96

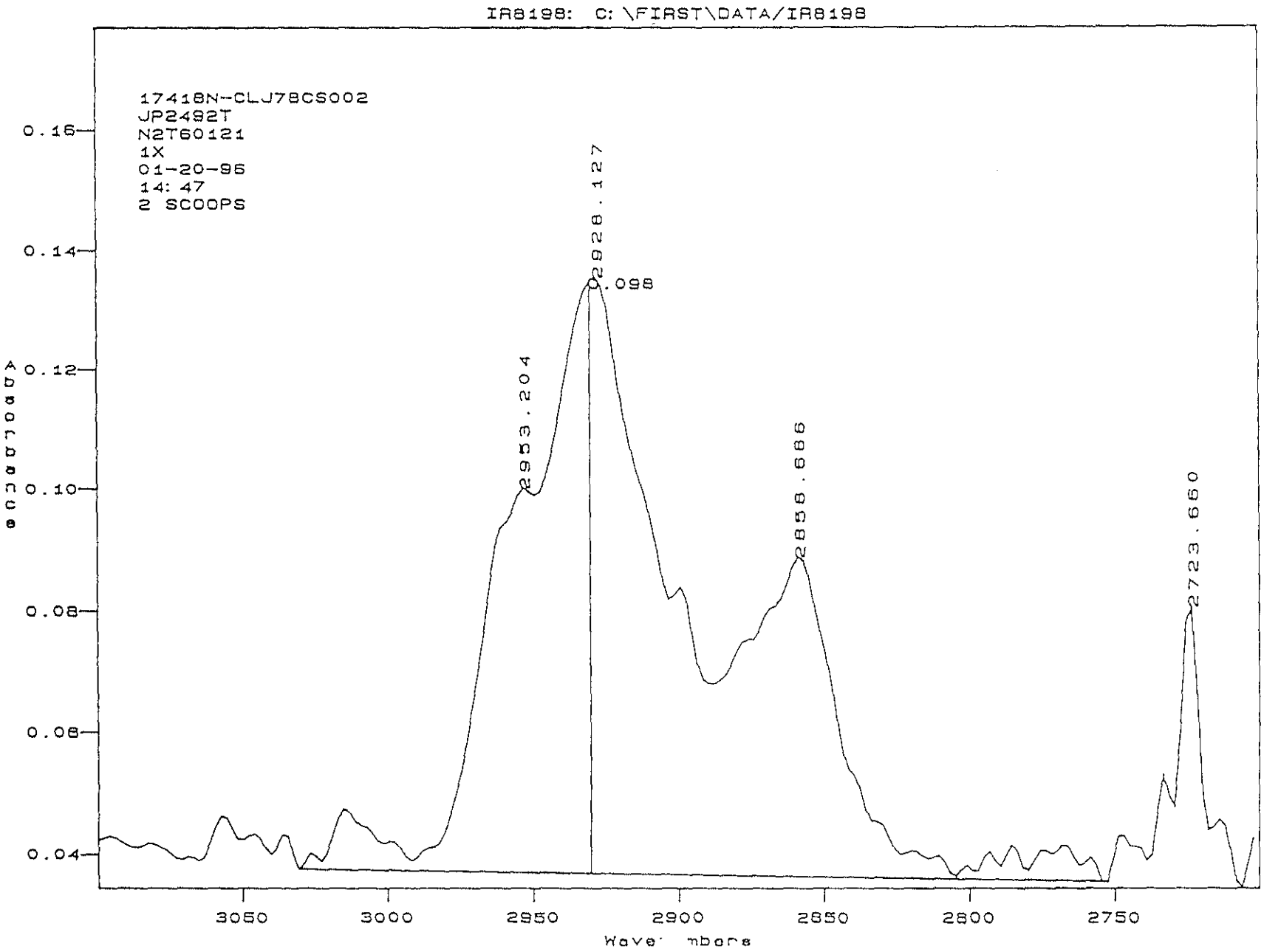
Concentrated Extract Volume: 200000 (uL) Date Analyzed: 01/22/96

Injection Volume: (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
	Petroleum Hydrocarbons (IR)	41000	

0558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17418N-CLJ78CS002
JP2492T
N2T60121
1X
01-20-96
14:47
2 SCOOPS
2928.127
.098
2953.204
2858.686
2723.690
0.16
0.14
0.12
0.10
0.08
0.06
0.04
3050
3000
2950
2900
2850
2800
2750

1B (GC)
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 0559

EPA SAMPLE NO.

CLJ78CS003

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2493T

Sample wt/vol: 30.6 (g/mL) G Lab File ID: IR8189

Level: (low/med) ____ Date Received: 01/18/96

% Moisture: 14 decanted: (Y/N) N Date Extracted: 01/19/96

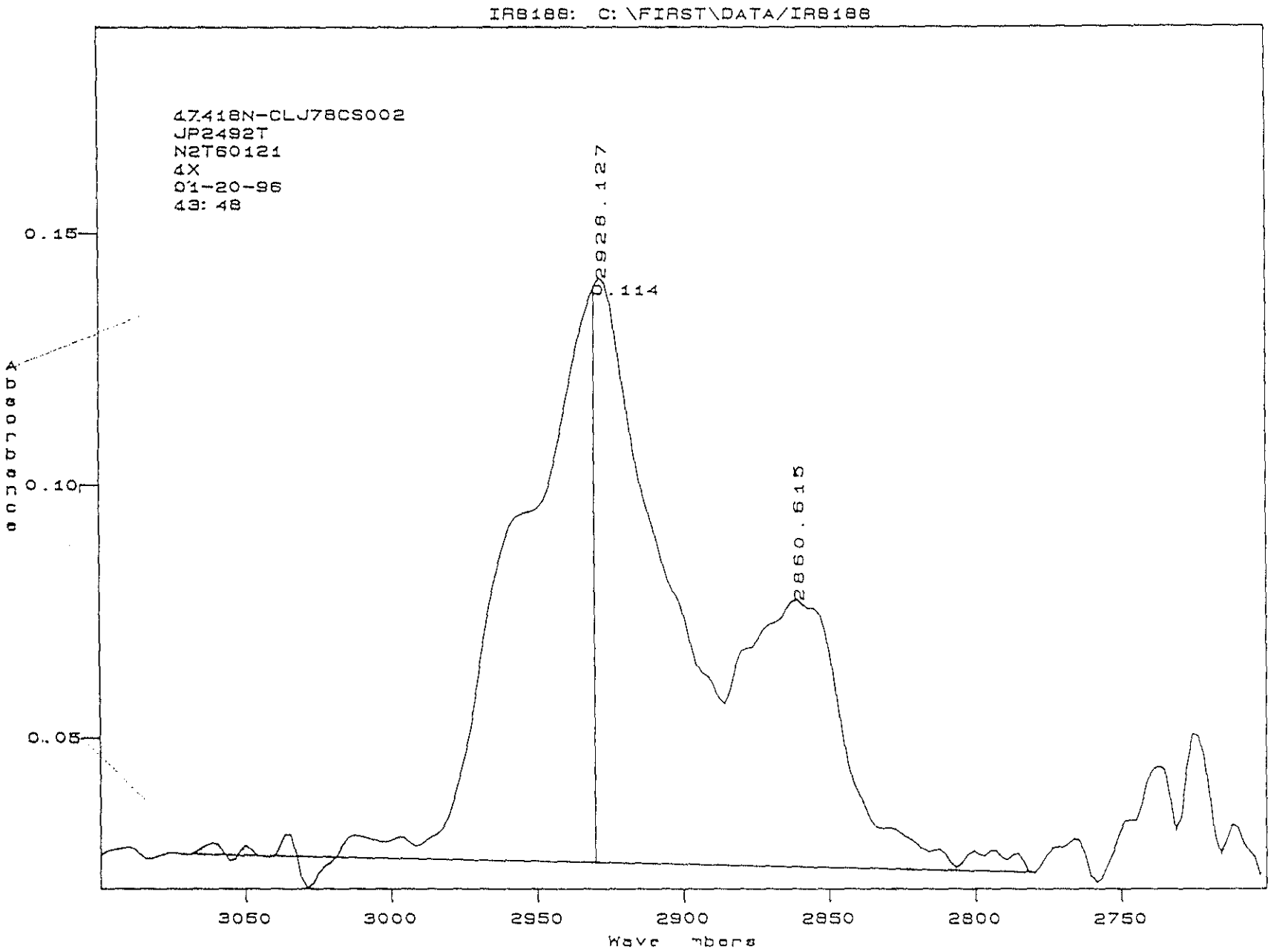
Concentrated Extract Volume: 200000 (uL) Date Analyzed: 01/22/96

Injection Volume: ____ (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
	Petroleum Hydrocarbons (IR)	66000	

0560


IR8188: C:\FIRST\DATA/IR8188
47418N-CLJ78CS002
JP2492T
N2T60121
4X
01-20-96
43:48
2928.127
0.114
2860.615
0.15
0.10
0.05
Absorbance
3050
3000
2950
2900
2850
2800
2750
Wave

1B (GC)
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 0561

EPA SAMPLE NO.

CLJ78CS004

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2494T

Sample wt/vol: 30.1 (g/mL) G Lab File ID: IR8192

Level: (low/med) _____ Date Received: 01/18/96

% Moisture: 17 decanted: (Y/N) N Date Extracted: 01/19/96

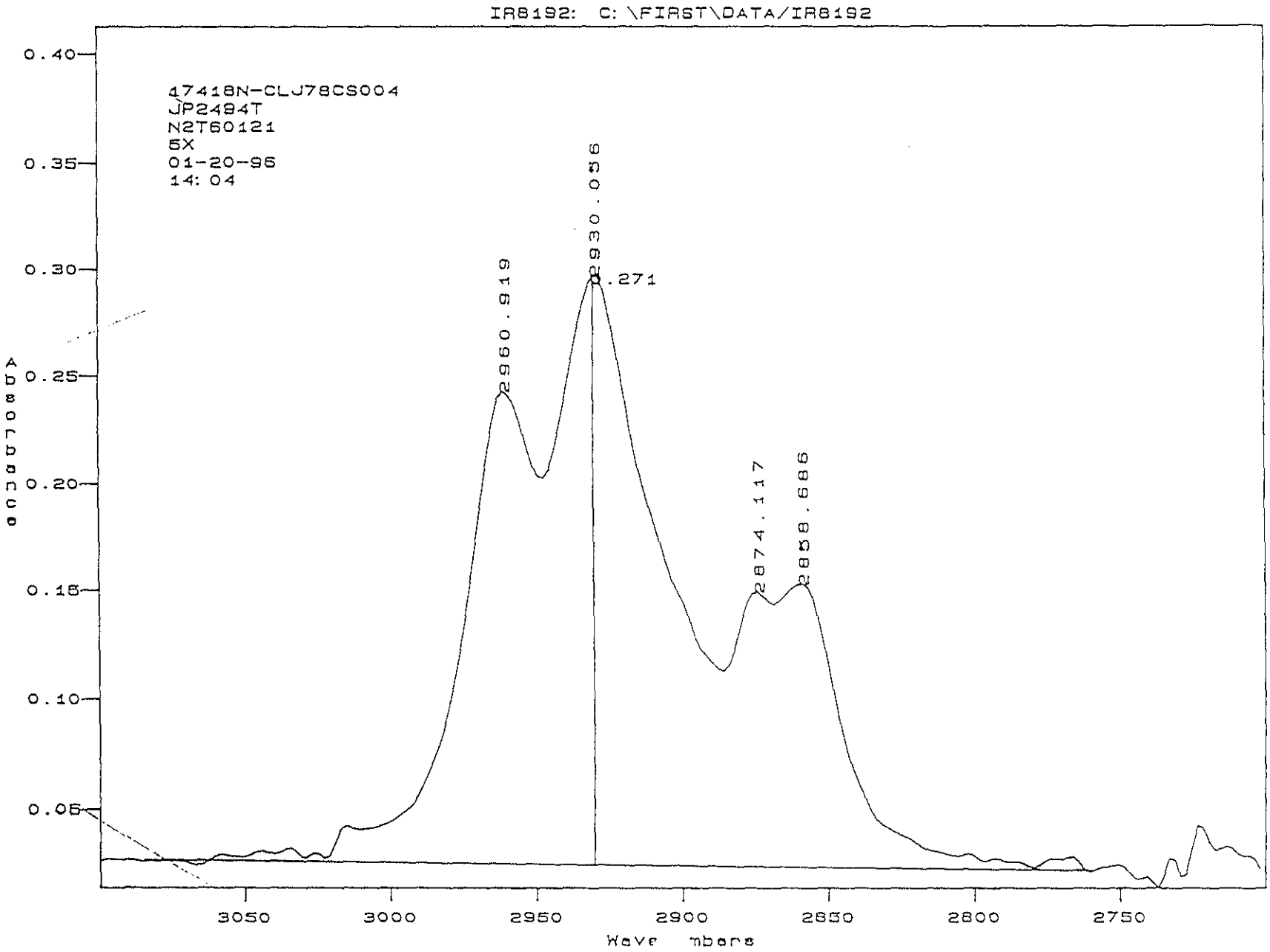
Concentrated Extract Volume: 200000 (uL) Date Analyzed: 01/22/96

Injection Volume: _____ (uL) Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
	Petroleum Hydrocarbons (IR)	580000	

0562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47418N-CLJ78CS004
JP2494T
N2T60121
5X
01-20-96
14:04
2960.919
2930.056
2930.271
2874.117
2858.686
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
Absorbance
3050
3000
2950
2900
2850
2800
2750
Wave mbers

1B (GC)
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0563 EPA SAMPLE NO.

CLJ78CS005

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2495T

Sample wt/vol: 30.9 (g/mL) G Lab File ID: IR8193

Level: (low/med) Date Received: 01/18/96

% Moisture: 16 decanted: (Y/N) N Date Extracted: 01/19/96

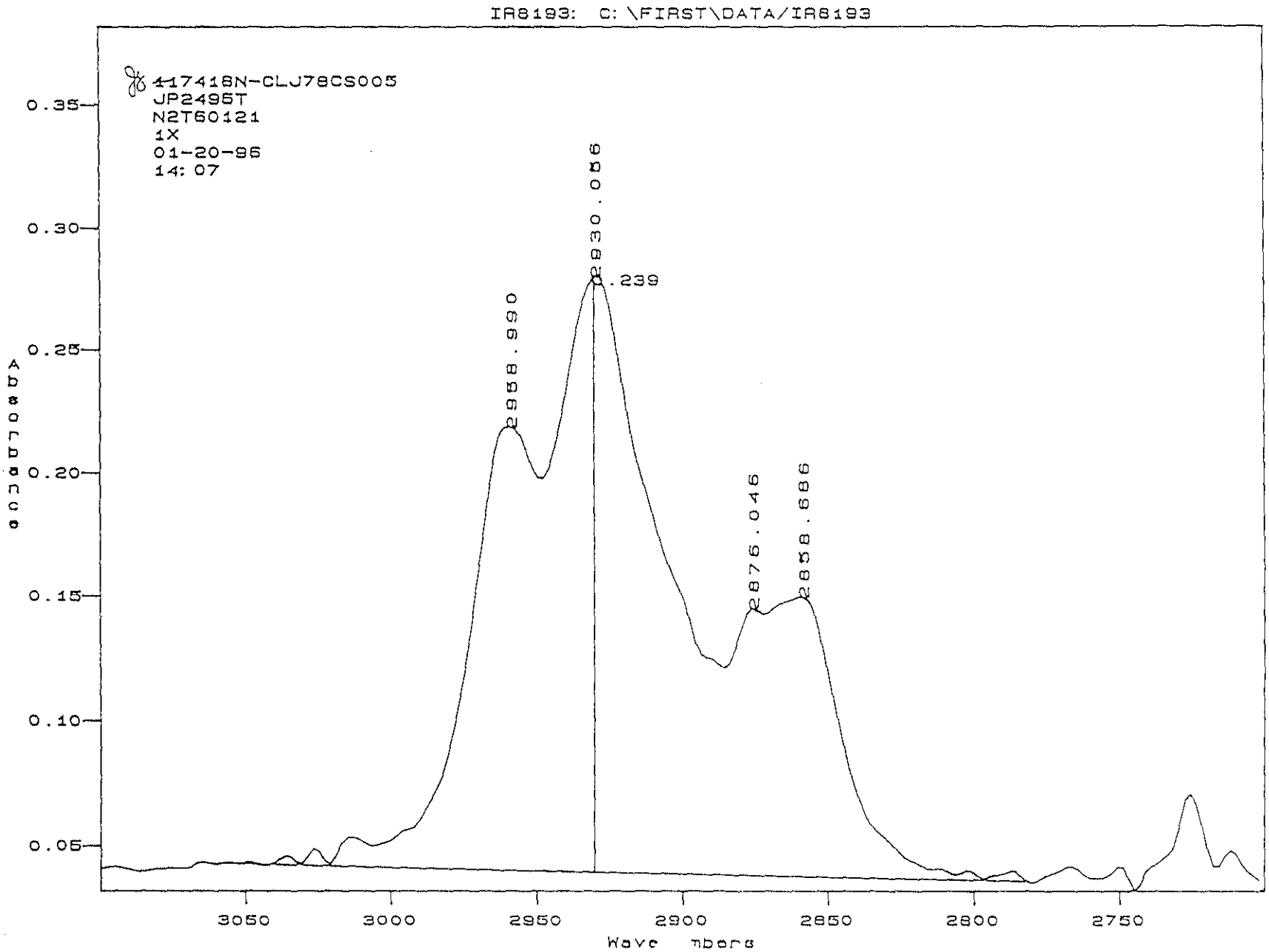
Concentrated Extract Volume: 200000 (uL) Date Analyzed: 01/22/96

Injection Volume: (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
	Petroleum Hydrocarbons (IR)	99000	

0564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417418N-CLJ78CS005
JP2495T
N2T60121
1X
01-20-96
14:07
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2930.056
.239
2876.046
2858.686
0.35
0.30
0.25
0.20
0.15
0.10
0.05
3050
3000
2950
2900
2850
2800
2750

1B (GC)
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0565 EPA SAMPLE NO.

CLJ78DS005

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2496T

Sample wt/vol: 30.4 (g/mL) G Lab File ID: IR8194

Level: (low/med) ____ Date Received: 01/18/96

% Moisture: 16 decanted: (Y/N) N Date Extracted: 01/19/96

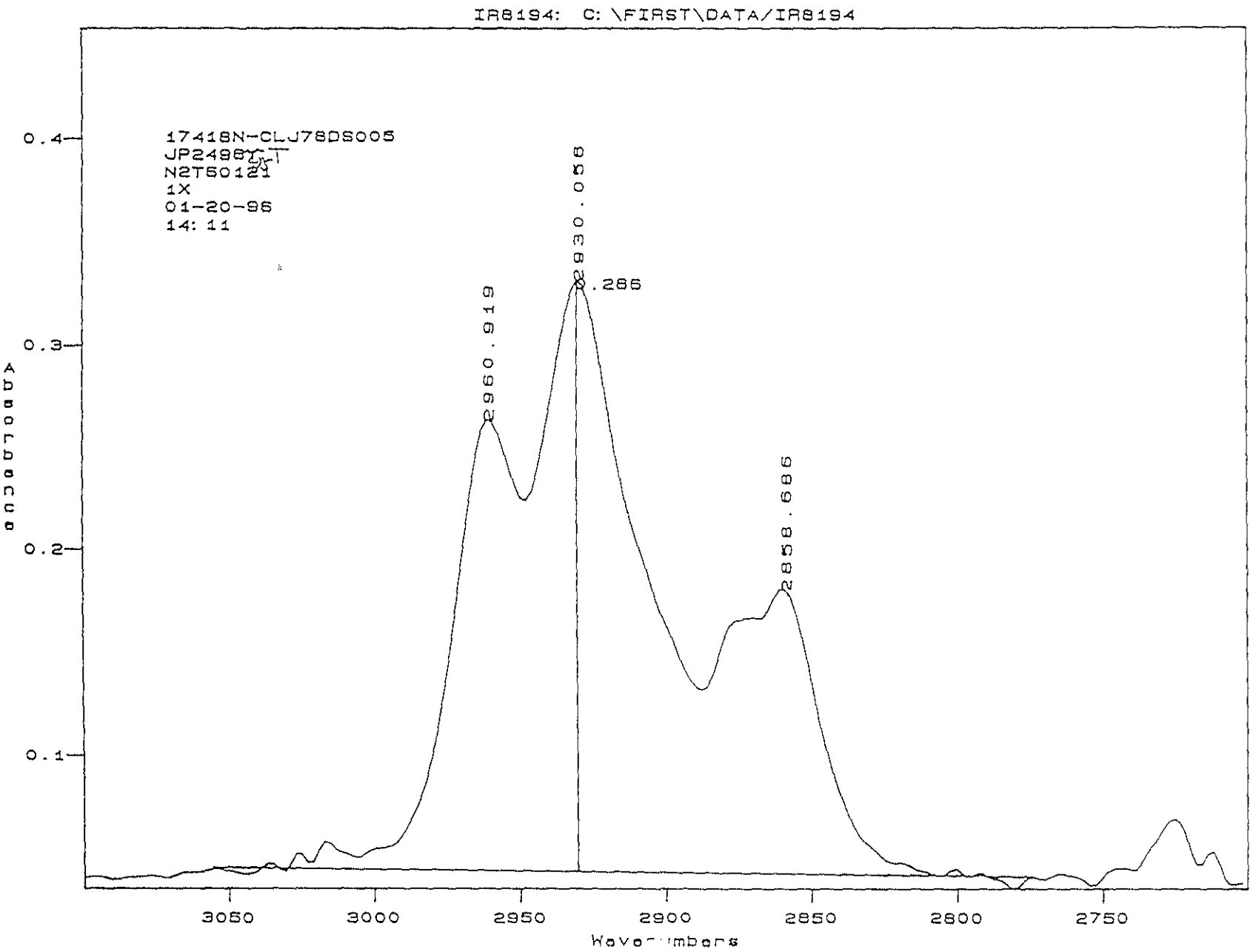
Concentrated Extract Volume: 200000 (uL) Date Analyzed: 01/22/96

Injection Volume: ____ (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
	Petroleum Hydrocarbons (IR)	120000	

0566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17418N-CLJ78DS005
JP2498
N2T60121
1X
01-20-96
14:11
2960.919
2930.056
.286
2858.686
0.4
0.3
0.2
0.1
Absorbance
3050
3000
2950
2900
2850
2800
2750
Wavenumbers

1B (GC)
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0567 EPA SAMPLE NO.

CLJ78RB001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) WATER Lab Sample ID: JP2497T

Sample wt/vol: 260 (g/mL) ML Lab File ID: IR8165

Level: (low/med) Low Date Received: 01/18/96

% Moisture: N/A decanted: (Y/N) N Date Extracted: 01/19/96

Concentrated Extract Volume: 100000 (uL) Date Analyzed: 01/19/96

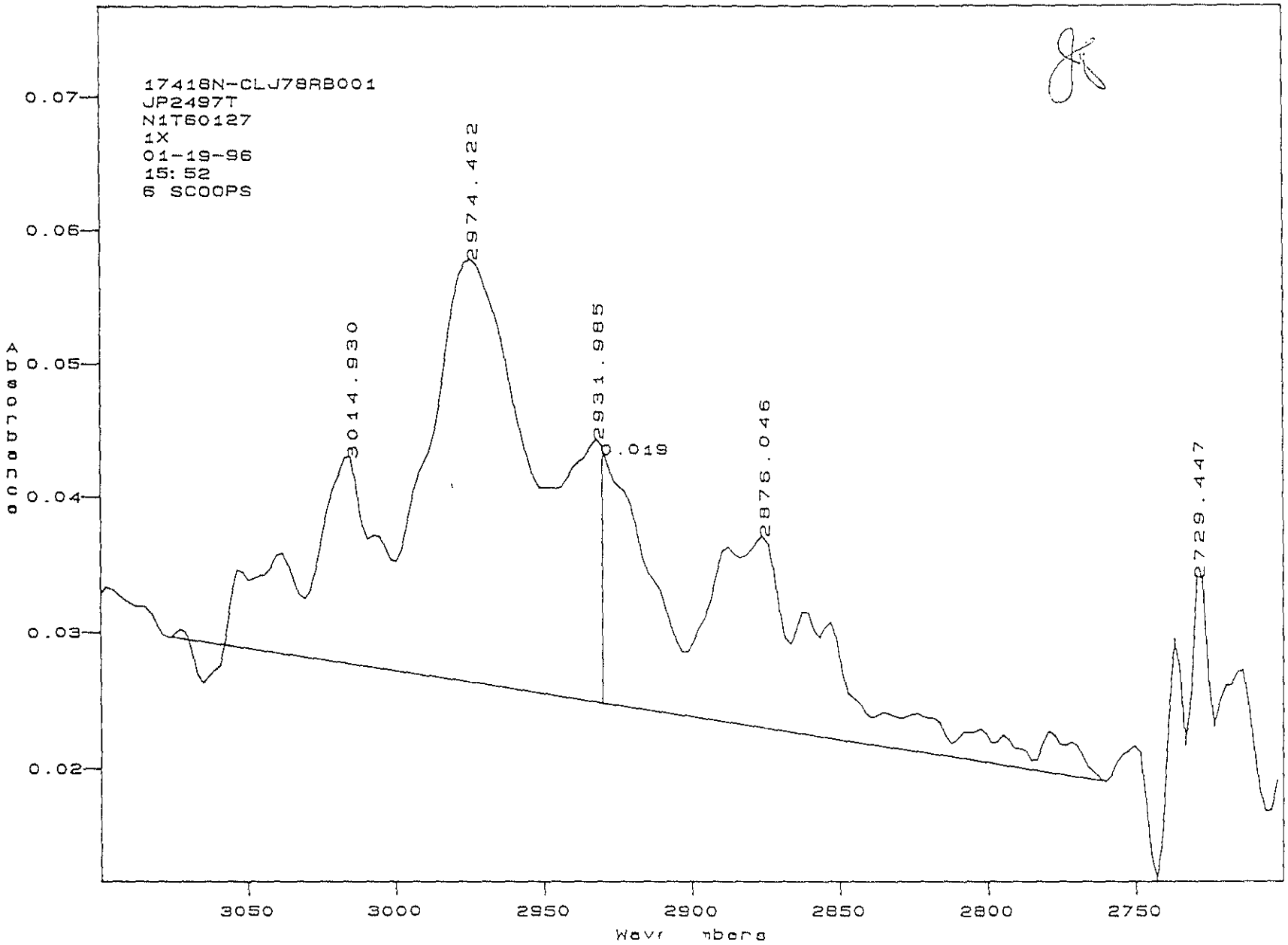
Injection Volume: _____ (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
	Petroleum Hydrocarbons (IR)	390	

0568

IR8165: C:\FIRST\DATA/IR8165



Initial Cal. ion Data

Curve ID: IR0807# Units: ug/ml

Compound	TV	STD # 1 1.31	STD # 2 5.05	STD # 3 10.1	STD # 4 15.2	STD # 5 30.3	AVG RF	CORR1	SLOPE	Y-INT	% RSD	Type
Petroleum Hydrocarbons (IR)	RF	.0221	.0178	.0180	.0175	.0180	.0187	1.00	56.1	-.0836	10.4	R
	CV	1.54	4.97	10.1	14.9	30.5						

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

Calib updated to IR112195

0569

Continuing Calibration Check

Curve ID: IR11219S Units: ug/ml

Check Std. Date 96/01/19

Pnum	Compound	Cont. RF	Avg. RF	% Diff	True Conc	Calc Conc	% Recov	Type	
.1	Petroleum Hydrocarbons (IR)	.0184	.0187	1.37	15.3	15.1	98.6	R	Run # 8150
.1	Petroleum Hydrocarbons (IR)	.0188	.0187	.333	15.3	15.4	100	R	# 8161
5011	Petroleum Hydrocarbons (IR)	.0189	.0187	1.08	15.3	15.5	101	R	#8166

Continuing Calibration Check

0571

Curve ID: IR112195 Units: ug/ml

Check Std. Date 96/01/20

Pnum	Compound	Conc. RF	Avg. RF	% Diff	True Conc	Calc Conc	% Recov	Type	
	Petroleum Hydrocarbons (IR)	.0186	.0187	.316	15.3	15.3	99.7	R	Aurott 8165
	Petroleum Hydrocarbons (IR)	.0186	.0187	.316	15.3	15.3	99.7	R	8179
B011	Petroleum Hydrocarbons (IR)	.0188	.0187	.383	15.3	15.4	100	R	8190
B011	Petroleum Hydrocarbons (IR)	.0188	.0187	.733	15.3	15.4	101	R	8201
B011	Petroleum Hydrocarbons (IR)	.0188	.0187	.733	15.3	15.4	101	R	8206

1B (GC)
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0572 EPA SAMPLE NO.

TBLK01A

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: N2T60121T

Sample wt/vol: 30.0 (g/mL) G Lab File ID: IR8181

Level: (low/med) Date Received: 01/18/96

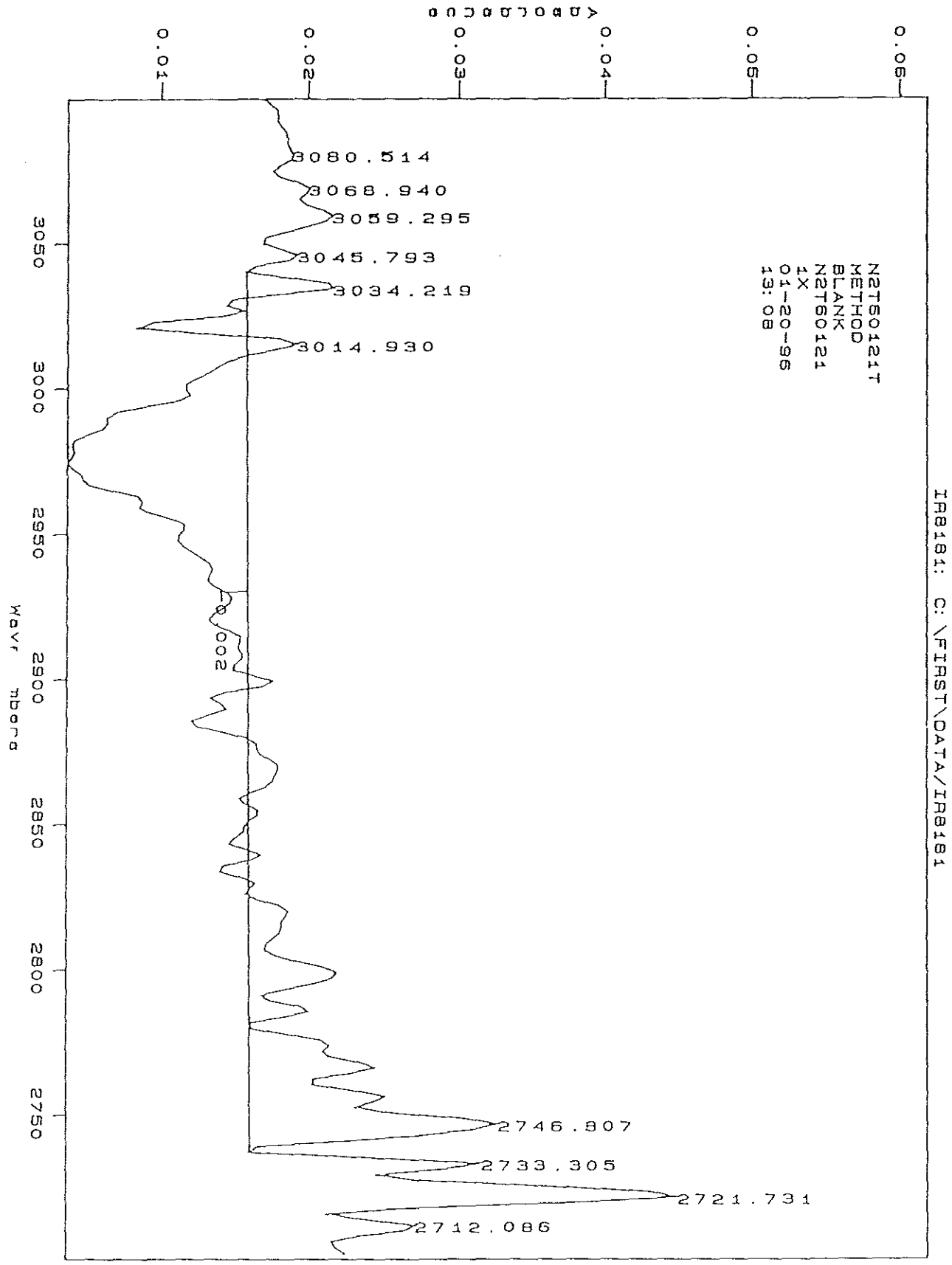
% Moisture: decanted: (Y/N) N Date Extracted: 01/19/96

Concentrated Extract Volume: 200000 (uL) Date Analyzed: 01/22/96

Injection Volume: (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
	Petroleum Hydrocarbons (IR)	6700	U


N2T601 21T
METHOD
BLANK
N2T60121
1X
04-20-96
13:08
IR8181: C:\FIRST\DATA/IR8181
3080.514
3068.940
3059.295
3045.793
3034.219
3014.930
2746.807
2733.305
2721.731
2712.086
.002
3050
3000
2950
2900
2850
2800
2750
Wavenumbers
0.01
0.02
0.03
0.04
0.05
0.06
Absorbance

1B (GC)
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0574 EPA SAMPLE NO.

TBLK01B

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) WATER Lab Sample ID: N1T60127T

Sample wt/vol: 1000 (g/mL) ML Lab File ID: IR8155

Level: (low/med) Low Date Received: 1/18/96

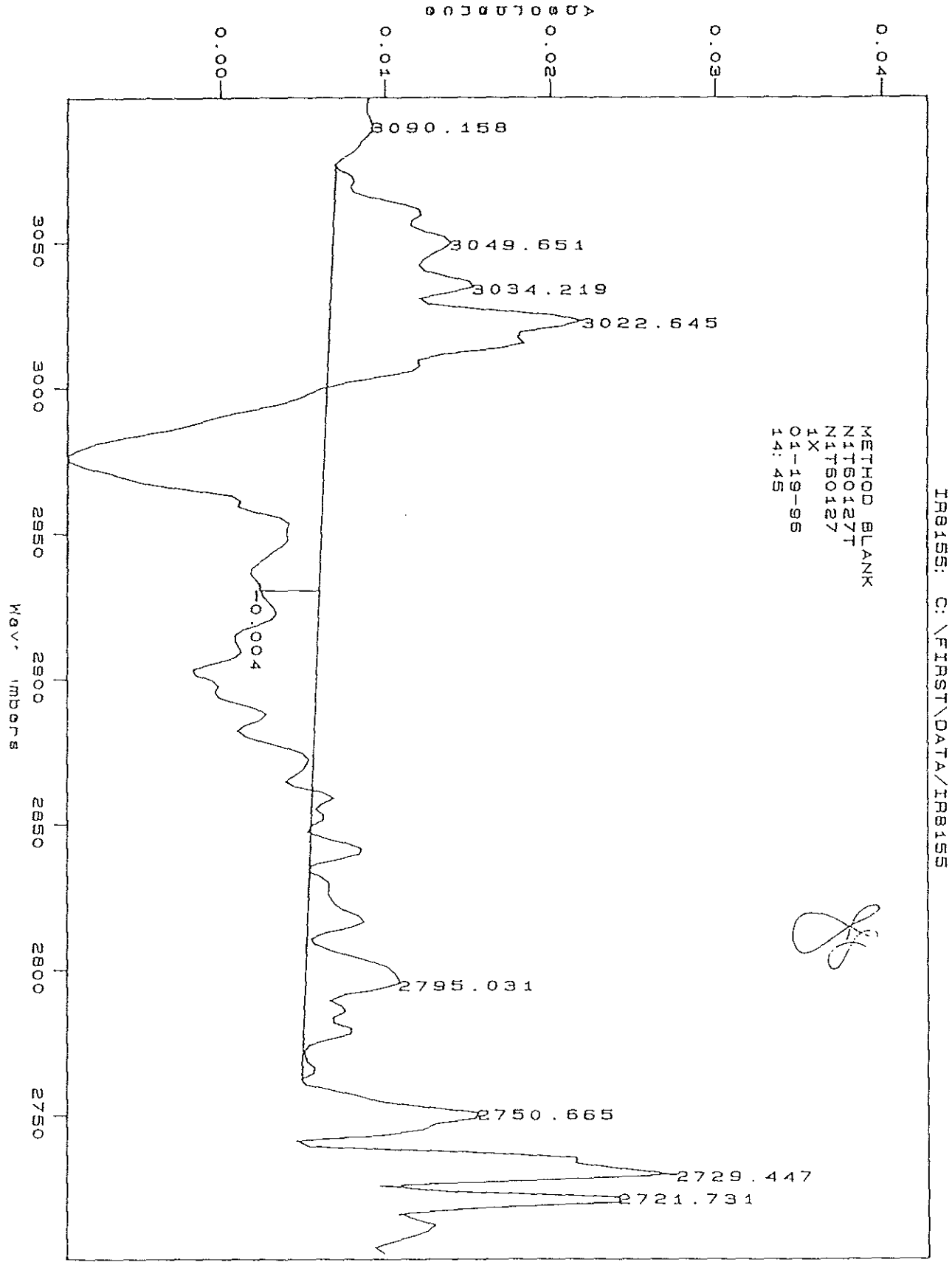
% Moisture: N/A decanted: (Y/N) N Date Extracted: 01/19/96

Concentrated Extract Volume: 100000 (uL) Date Analyzed: 01/19/96

Injection Volume: _____ (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
	Petroleum Hydrocarbons (IR)	100	U


IR8155: C:\FIRST\DATA\IR8155
METHOD BLANK
N11T60127T
N11T60127
1X
01-19-96
14:45
3090.158
3049.651
3034.219
3022.645
-0.004
2795.031
2750.665
2729.447
2721.731
Wavenumbers
3050
3000
2950
2900
2850
2800
2750
0.00
0.01
0.02
0.03
0.04

1B (GC)
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0576 EPA SAMPLE NO.

CLJ78CS001MS

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2491TS

Sample wt/vol: 30.4 (g/mL) G Lab File ID: IR8186

Level: (low/med) Date Received: 01/18/96

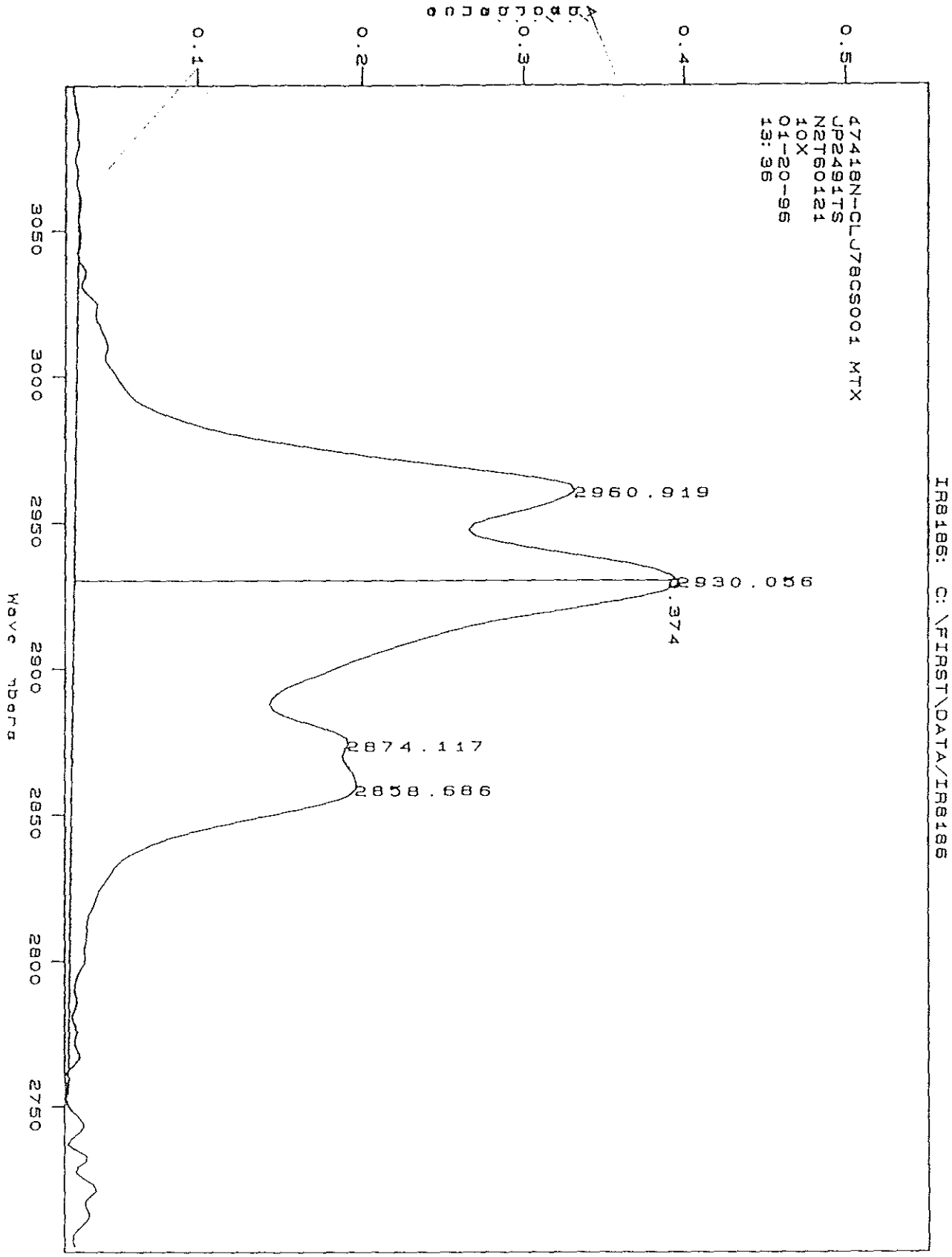
% Moisture: 18 decanted: (Y/N) N Date Extracted: 01/19/96

Concentrated Extract Volume: 200000 (uL) Date Analyzed: 01/22/96

Injection Volume: (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
	Petroleum Hydrocarbons (IR)	1600000	


IR8186: C:\FIRST\DATA\IR8186
47418N-CLJ78CS001 MTX
JP2491TS
N2T60121
10X
01-20-95
13:36
2960.919
2930.056
.374
2874.117
2858.686
Wave Nbrs
3050
3000
2950
2900
2850
2800
2750
0.1
0.2
0.3
0.4
0.5

1B (GC)
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0578 EPA SAMPLE NO.

CLJ78CS001MSD

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2491TR

Sample wt/vol: 30.1 (g/mL) G Lab File ID: IR8187

Level: (low/med) Date Received: 01/18/96

% Moisture: 18 decanted: (Y/N) N Date Extracted: 01/19/96

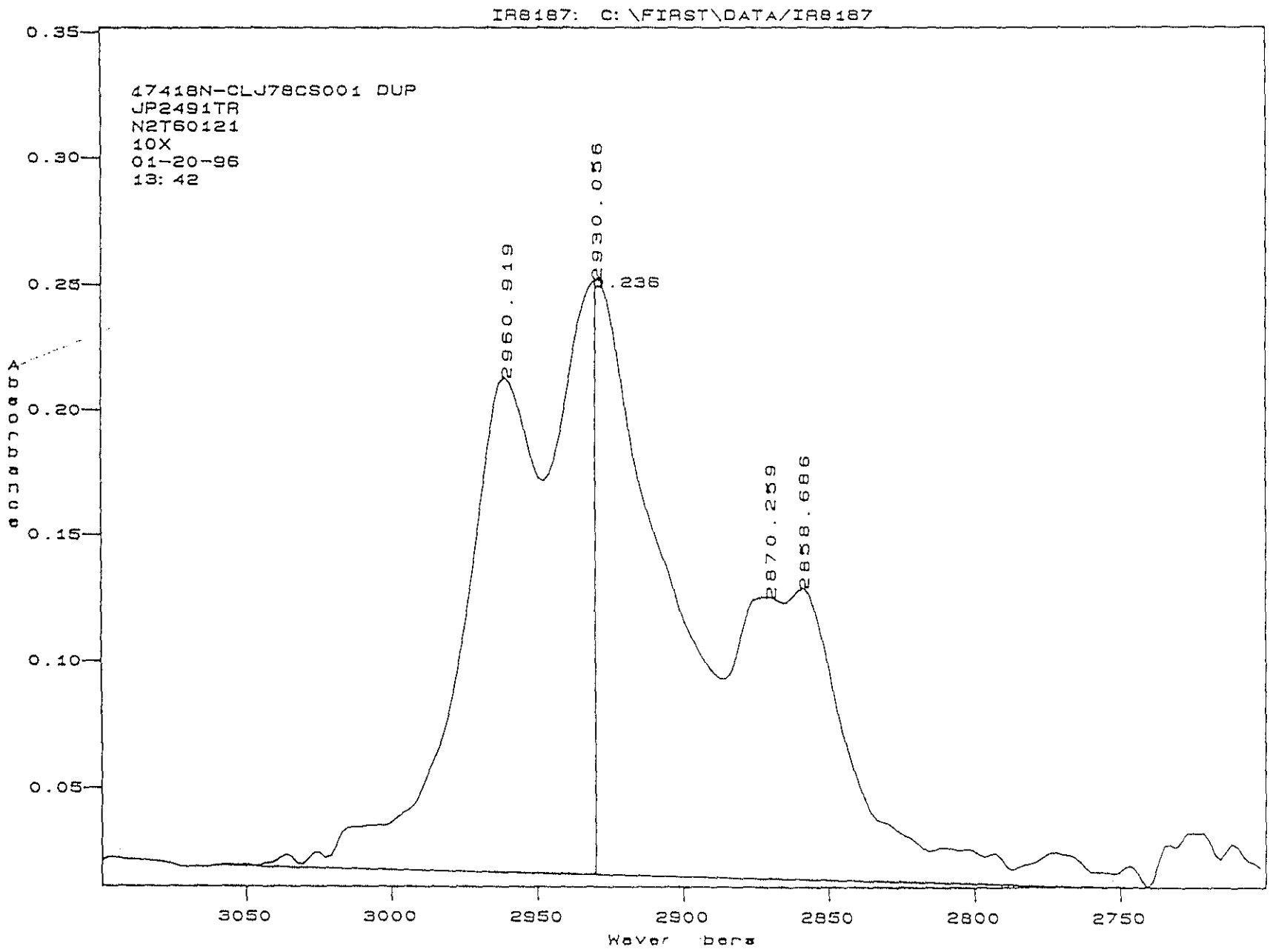
Concentrated Extract Volume: 200000 (uL) Date Analyzed: 01/22/96

Injection Volume: (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
	Petroleum Hydrocarbons (IR)	1000000	

0579


IR8187: C:\FIRST\DATA/IR8187
47418N-CLJ78CS001 DUP
JP2491TR
N2T60121
10X
01-20-96
13: 42
2960.919
2930.056
2870.259
2858.686
0.35
0.30
0.25
0.20
0.15
0.10
0.05
3050
3000
2950
2900
2850
2800
2750

1B (GC)
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 0580

EPA SAMPLE NO.

TSPK01A

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) SOIL Lab Sample ID: N2T60121TS

Sample wt/vol: 30.0 (g/mL) G Lab File ID: IR8182

Level: (low/med) _____ Date Received: 01/19/96

% Moisture: _____ decanted: (Y/N) N Date Extracted: 01/19/96

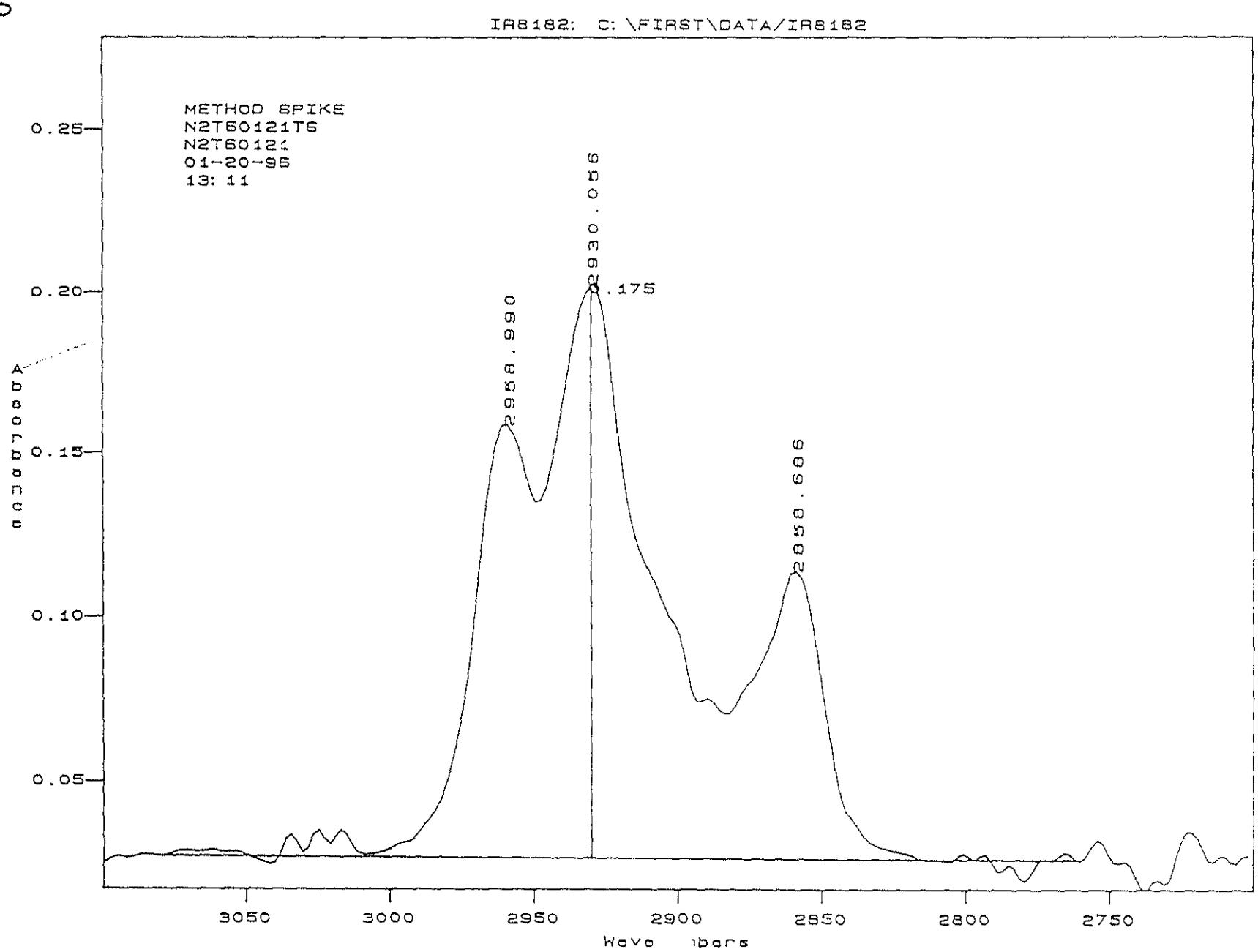
Concentrated Extract Volume: 200000 (uL) Date Analyzed: 01/22/96

Injection Volume: _____ (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
	Petroleum Hydrocarbons (IR)	62000	

0581


IR8182: C:\FIRST\DATA/IR8182
METHOD SPIKE
N2T60121TS
N2T60121
01-20-96
13:11
2958.990
2930.056
.175
2858.686
0.25
0.20
0.15
0.10
0.05
3050
3000
2950
2900
2850
2800
2750

1B (GC)
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0582 EPA SAMPLE NO.

TSPK01B

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix: (soil/water) WATER Lab Sample ID: N1T60127TS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: IR8156

Level: (low/med) Low Date Received: 1/18/96

% Moisture: N/A decanted: (Y/N) N Date Extracted: 01/19/96

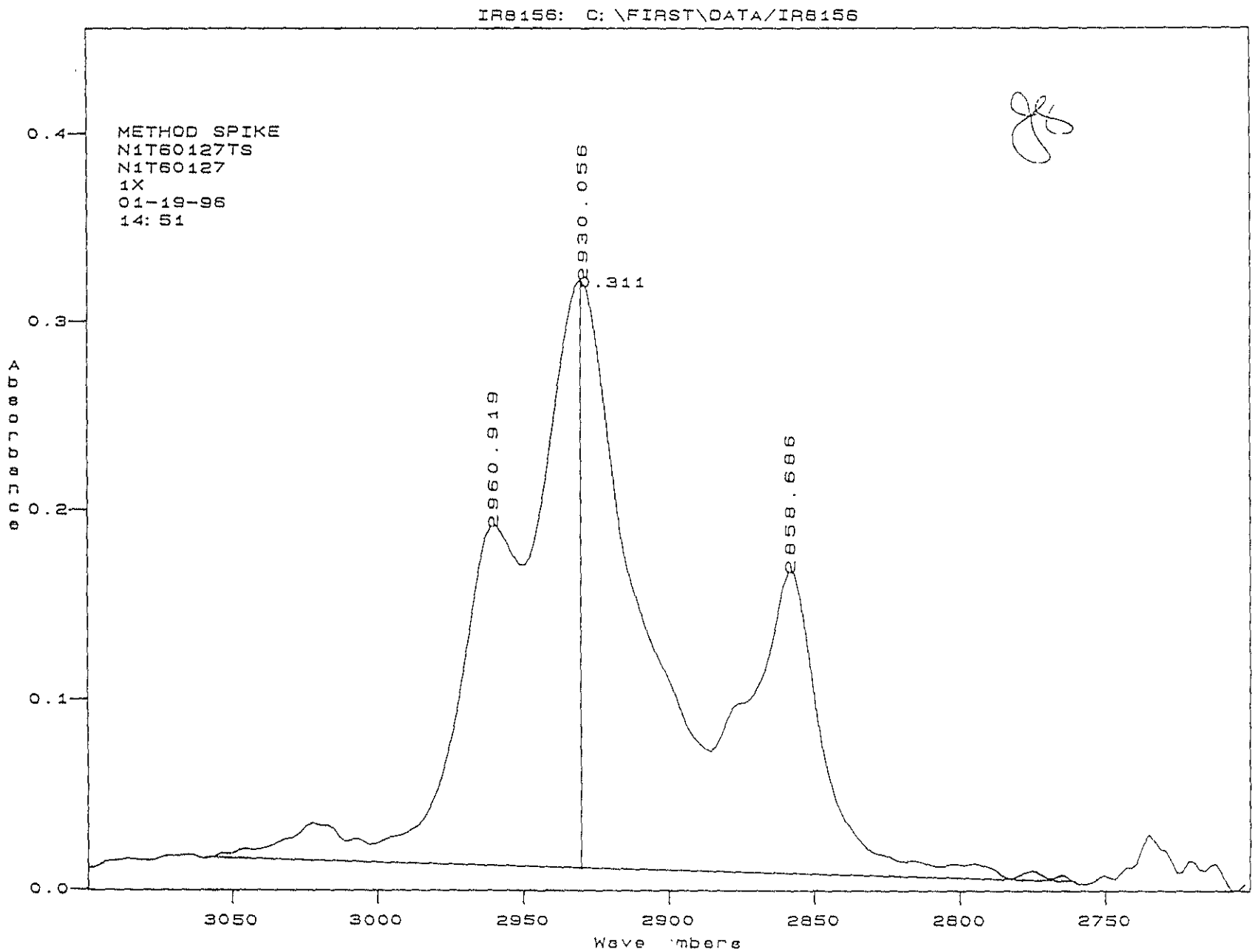
Concentrated Extract Volume: 100000 (uL) Date Analyzed: 01/19/96

Injection Volume: _____ (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
	Petroleum Hydrocarbons (IR)	1700	

0583


IR8156: C:\FIRST\DATA/IR8156
METHOD SPIKE
N1T60127TS
N1T60127
1X
01-19-96
14:51
2930.056
0.311
2960.919
2858.686
0.4
0.3
0.2
0.1
0.0
Absorbance
3050
3000
2950
2900
2850
2800
2750
Wave mbers

INORGANICS

Metals

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

SOW No.: _____

EPA Sample No.	Lab Sample ID.
CLJ78CS001	JP2491
CLJ78CS002	JP2492
CLJ78CS003	JP2493
CLJ78CS003D	JP2493D
CLJ78CS003S	JP2493S
CLJ78CS003SD	JP2493SD
CLJ78CS004	JP2494
CLJ78CS005	JP2495
CLJ78DS005	JP2496
CLJ78DS005D	JP2496D
CLJ78DS005S	JP2496S
CLJ78DS005SD	JP2496SD
CLJ78RB001	JP2497
CLJ78RB001D	JP2497D
CLJ78RB001S	JP2497S
CLJ78RB001SD	JP2497SD

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments: See SDG Narrative

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Joseph A Hnatow Name: Joseph A. Hnatow

Date: 2-28-96 Title: Lab Manager

Narrative for SDG # CLJ78CS001

Metals

CLP Forms and/or analytical requirements do not apply to all Level C type deliverable requirements. Every effort was made to conform to the CLP format and all applicable CLP/Level C forms have been included.

All of the initial calibration criteria were within QC limits.

Cadmium and Potassium did not pass all continuing calibration criteria but should not negatively impact the data validity.

The CRDL standard met all QC criteria.

All initial calibration blank criteria were within QC limits.

Low levels of Cobalt were detected in the continuing calibration blank. This anomaly should not impact the validity of the data generated.

Low levels of Iron were detected in the method blank. This anomaly should not impact the validity of the data generated.

Low matrix spike recoveries were noted for Antimony and Mercury. All post spike recoveries were within acceptable QC limits.

Matrix spike recoveries for Copper and Iron were outside QC limits due to the high levels of these elements present in the unspiked sample.

Duplicate results were outside control limits for Mercury.

All Laboratory Control Samples (LCS) were within acceptable QC limits.

All holding times were met for this SDG.

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

0587

EPA SAMPLE NO.

CLJ78CS001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix (soil/water): SOIL Lab Sample ID: JP2491

Level (low/med): MED Date Received: 01/18/96

% Solids: 82

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9280			P
7440-36-0	Antimony	2.7	U	N	P
7440-38-2	Arsenic	1.2			F
7440-39-3	Barium	14.1	B		P
7440-41-7	Beryllium	.097	U		P
7440-43-9	Cadmium	.15	U		P
7440-70-2	Calcium	693			P
7440-47-3	Chromium	10.9			P
7440-48-4	Cobalt	.54	B		P
7440-50-8	Copper	1.4	B	N	P
7439-89-6	Iron	6590		N	P
7439-92-1	Lead	12.4			P
7439-95-4	Magnesium	204	B		P
7439-96-5	Manganese	6.6			P
7439-97-6	Mercury	.021		N*	CV
7440-02-0	Nickel	2.2	B		P
7440-09-7	Potassium	247	B		P
7782-49-2	Selenium	.25	U	W	F
7440-22-4	Silver	.77	U		P
7440-23-5	Sodium	38.9	U		P
7440-28-0	Thallium	.11	U	W	F
7440-62-2	Vanadium	17.5			P
7440-66-6	Zinc	14.8			P
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

U.S. EPA - CLP

1

0588

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

CLJ78CS002

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix (soil/water): SOIL Lab Sample ID: JP2492

Level (low/med): MED Date Received: 01/18/96

% Solids: 85

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4400			P
7440-36-0	Antimony	2.7	U	N	P
7440-38-2	Arsenic	.36	B		F
7440-39-3	Barium	8.1	B		P
7440-41-7	Beryllium	.095	U		P
7440-43-9	Cadmium	.14	U		P
7440-70-2	Calcium	791			P
7440-47-3	Chromium	5.5			P
7440-48-4	Cobalt	.28	U		P
7440-50-8	Copper	1.9	B	N	P
7439-89-6	Iron	1470		N	P
7439-92-1	Lead	12.0			P
7439-95-4	Magnesium	125	B		P
7439-96-5	Manganese	4.9			P
7439-97-6	Mercury	.023		N*	CV
7440-02-0	Nickel	1.6	B		P
7440-09-7	Potassium	127	B		P
7782-49-2	Selenium	.26	U	W	F
7440-22-4	Silver	.75	U		P
7440-23-5	Sodium	37.9	U		P
7440-28-0	Thallium	.12	U		F
7440-62-2	Vanadium	5.2	B		P
7440-66-6	Zinc	9.7			P
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

0589 EPA SAMPLE NO.

CLJ78CS003

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix (soil/water): SOIL Lab Sample ID: JP2493

Level (low/med): MED Date Received: 01/18/96

% Solids: 86

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6110			P
7440-36-0	Antimony	2.6	U	N	P
7440-38-2	Arsenic	.64	B		F
7440-39-3	Barium	10.7	B		P
7440-41-7	Beryllium	.094	U		P
7440-43-9	Cadmium	.14	U		P
7440-70-2	Calcium	802			P
7440-47-3	Chromium	7.3			P
7440-48-4	Cobalt	.71	B		P
7440-50-8	Copper	4.0		N	P
7439-89-6	Iron	2090		N	P
7439-92-1	Lead	18.7			P
7439-95-4	Magnesium	161	B		P
7439-96-5	Manganese	5.9			P
7439-97-6	Mercury	.087		N*	CV
7440-02-0	Nickel	2.5	B		P
7440-09-7	Potassium	180	B		P
7782-49-2	Selenium	.26	U	W	F
7440-22-4	Silver	.74	U		P
7440-23-5	Sodium	37.4	U		P
7440-28-0	Thallium	.12	U	W	F
7440-62-2	Vanadium	6.6			P
7440-66-6	Zinc	19.5			P
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

0590

EPA SAMPLE NO.

CLJ78CS004

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix (soil/water): SOIL Lab Sample ID: JP2494

Level (low/med): MED Date Received: 01/18/96

% Solids: 83

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5690			P
7440-36-0	Antimony	2.7	U	N	P
7440-38-2	Arsenic	1.0	B		F
7440-39-3	Barium	13.6	B		P
7440-41-7	Beryllium	.096	U		P
7440-43-9	Cadmium	.24	B		P
7440-70-2	Calcium	788			P
7440-47-3	Chromium	8.3			P
7440-48-4	Cobalt	.64	B		P
7440-50-8	Copper	7.0		N	P
7439-89-6	Iron	2110		N	P
7439-92-1	Lead	45.6			P
7439-95-4	Magnesium	168	B		P
7439-96-5	Manganese	11.8			P
7439-97-6	Mercury	.058		N*	CV
7440-02-0	Nickel	2.3	B		P
7440-09-7	Potassium	171	B		P
7782-49-2	Selenium	.24	U	W	F
7440-22-4	Silver	.76	U		P
7440-23-5	Sodium	38.5	U		P
7440-28-0	Thallium	.11	U		F
7440-62-2	Vanadium	6.3			P
7440-66-6	Zinc	42.5			P
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

0591 EPA SAMPLE NO.

CLJ78CS005

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix (soil/water): SOIL Lab Sample ID: JP2495

Level (low/med): MED Date Received: 01/18/96

% Solids: 84

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4960			P
7440-36-0	Antimony	2.6	U	N	P
7440-38-2	Arsenic	.53	B		F
7440-39-3	Barium	9.7	B		P
7440-41-7	Beryllium	.094	U		P
7440-43-9	Cadmium	.14	U		P
7440-70-2	Calcium	951			P
7440-47-3	Chromium	6.9			P
7440-48-4	Cobalt	.28	U		P
7440-50-8	Copper	2.9		N	P
7439-89-6	Iron	2110		N	P
7439-92-1	Lead	19.8			P
7439-95-4	Magnesium	149	B		P
7439-96-5	Manganese	6.7			P
7439-97-6	Mercury	.058		N*	CV
7440-02-0	Nickel	1.8	B		P
7440-09-7	Potassium	167	B		P
7782-49-2	Selenium	.27	U	W	F
7440-22-4	Silver	.74	U		P
7440-23-5	Sodium	37.4	U		P
7440-28-0	Thallium	.11	U	W	F
7440-62-2	Vanadium	6.1			P
7440-66-6	Zinc	24.2			P
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

0592

EPA SAMPLE NO.

CLJ78DS005

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix (soil/water): SOIL Lab Sample ID: JP2496

Level (low/med): MED Date Received: 01/18/96

% Solids: 84

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5530			P
7440-36-0	Antimony	2.7	U	N	P
7440-38-2	Arsenic	.70	B		F
7440-39-3	Barium	10	B		P
7440-41-7	Beryllium	.095	U		P
7440-43-9	Cadmium	.14	U		P
7440-70-2	Calcium	816			P
7440-47-3	Chromium	7.4			P
7440-48-4	Cobalt	.49	B		P
7440-50-8	Copper	2.4	B	N	P
7439-89-6	Iron	2100		N	P
7439-92-1	Lead	18.4			P
7439-95-4	Magnesium	176	B		P
7439-96-5	Manganese	6.8			P
7439-97-6	Mercury	.059		N*	CV
7440-02-0	Nickel	1.4	B		P
7440-09-7	Potassium	212	B		P
7782-49-2	Selenium	.27	U	W	F
7440-22-4	Silver	.75	U		P
7440-23-5	Sodium	39.7	B		P
7440-28-0	Thallium	.11	U		F
7440-62-2	Vanadium	6.3			P
7440-66-6	Zinc	24.0			P
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

U.S. EPA - CLP 0593 EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

CLJ78RB001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix (soil/water): WATER Lab Sample ID: JP2497

Level (low/med): LOW Date Received: 01/18/96

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	108	U		P
7440-36-0	Antimony	22.4	U		P
7440-38-2	Arsenic	1.7	U		F
7440-39-3	Barium	2.0	B		P
7440-41-7	Beryllium	.80	U		P
7440-43-9	Cadmium	1.2	U		P
7440-70-2	Calcium	114	B		P
7440-47-3	Chromium	2.2	U		P
7440-48-4	Cobalt	2.4	U		P
7440-50-8	Copper	4.3	B		P
7439-89-6	Iron	45.1	B		P
7439-92-1	Lead	1.3	B		F
7439-95-4	Magnesium	24.2	U		P
7439-96-5	Manganese	1.8	B		P
7439-97-6	Mercury	.14	U		CV
7440-02-0	Nickel	7.9	U		P
7440-09-7	Potassium	982	B		P
7782-49-2	Selenium	2.3	U	W	F
7440-22-4	Silver	6.3	U		P
7440-23-5	Sodium	320	U		P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	2.8	U		P
7440-66-6	Zinc	27.3			P
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: OHM CORPORATION ANALYTICAL DIVISION Contract: NFESC

Lab Code: NA Case No.: 17418N SAS No.: NA SDG No.: CLJ7SCS001

Initial Calibration Source: NIST

Continuing Calibration Source: NIST

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum	10200.0	10200.00	100.0	5090.0	5200.00	102.2	5190.00	102.0	P
Antimony	5180.0	5340.00	103.1	2660.0	2700.00	101.5	2660.00	100.0	P
Arsenic									
Barium	10600.0	10300.00	97.2	4950.0	5240.00	105.9	5210.00	105.3	P
Beryllium	239.0	242.00	101.3	119.0	121.00	101.7	121.00	101.7	P
Cadmium	1280.0	1330.00	103.9	805.0	513.00	63.7	811.00	100.7	P
Calcium	10300.0	10500.00	101.9	5230.0	5330.00	101.9	5310.00	101.5	P
Chromium	489.0	510.00	104.3	243.0	256.00	105.3	252.00	103.7	P
Cobalt	2580.0	2670.00	103.5	1340.0	1370.00	102.2	1360.00	101.5	P
Copper	1260.0	1260.00	100.0	719.0	726.00	101.0	724.00	100.7	P
Iron	5150.0	5290.00	102.7	2620.0	2670.00	101.9	2670.00	101.9	P
Lead	1400.0	1410.00	100.7	811.0	830.00	102.3	821.00	101.2	
Magnesium	10200.0	10300.00	101.0	5360.0	5380.00	100.4	5330.00	99.4	P
Manganese	750.0	782.00	104.3	401.0	419.00	104.5	418.00	104.2	P
Mercury	5.0	5.06	101.2	5.0	4.61	92.2	4.61	92.2	CV
Nickel	2080.0	2140.00	102.9	1050.0	1060.00	101.0	1060.00	101.0	P
Potassium	10700.0	10800.00	100.9	5160.0	5300.00	102.7	5490.00	106.4	P
Selenium									
Silver	522.0	528.00	101.1	256.0	258.00	100.8	254.00	99.2	P
Sodium	10100.0	9380.00	92.9	4680.0	4850.00	103.6	4800.00	102.6	P
Thallium									
Vanadium	2570.0	2590.00	100.8	1290.0	1330.00	103.1	1320.00	102.3	P
Zinc	1010.0	1040.00	103.0	504.0	506.00	100.4	502.00	99.6	P
Cyanide									

1

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: OHM CORPORATION ANALYTICAL DIVISION Contract: NFESC

Lab Code: NA Case No.: 17418N SAS No.: NA SDG No.: CLJ78CS001

Initial Calibration Source: NIST

Continuing Calibration Source: NIST

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum				5090.0	5180.00	101.8			P
Antimony				2660.0	2680.00	100.8			P
Arsenic									
Barium				4950.0	5230.00	105.7			P
Beryllium				119.0	122.00	102.5			P
Cadmium				805.0	819.00	101.7			P
Calcium				5230.0	5350.00	102.3			P
Chromium				243.0	257.00	105.8			P
Cobalt				1340.0	1370.00	102.2			P
Copper				719.0	726.00	101.0			P
Iron				2620.0	2680.00	102.3			P
Lead				811.0	819.00	101.0			P
Magnesium				5360.0	5360.00	100.0			P
Manganese				401.0	421.00	105.0			P
Mercury				5.0	4.52	90.4			CV
Nickel				1050.0	1070.00	101.9			P
Potassium				5160.0	5860.00	113.5			P
Selenium									
Silver				256.0	255.00	99.6			P
Sodium				4680.0	4850.00	103.6			P
Thallium									
Vanadium				1290.0	1330.00	103.1			P
Zinc				504.0	503.00	99.8			P
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: OHM CORPORATION ANALYTICAL DIVISION Contract: NFESC

Lab Code: NA Case No.: 17418N SAS No.: NA SDG No.: CLJ78CS001

Initial Calibration Source: NIST

Continuing Calibration Source: NIST

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum	10200.0	10300.00	101.0	5090.0	5180.00	101.8	5210.00	102.4	P
Antimony	5180.0	5350.00	103.3	2660.0	2700.00	101.5	2680.00	100.8	P
Arsenic									
Barium	10600.0	10400.00	98.1	4950.0	5170.00	104.4	5240.00	105.9	P
Beryllium	239.0	241.00	100.8	119.0	119.00	100.0	120.00	100.8	P
Cadmium	1280.0	1310.00	102.3	805.0	786.00	97.6	787.00	97.8	P
Calcium	1030.0	1050.00 ~~1530.00~~	101.9 ~~1919.0~~	5230.0	5240.00	100.2	5290.00	101.1	P
romium	489.0	512.00	104.7	243.0	251.00	103.3	250.00	102.9	P
oalt	2590.0	2640.00	102.3	1340.0	1330.00	99.3	1340.00	100.0	P
Copper	1260.0	1270.00	100.8	719.0	733.00	101.9	737.00	102.5	P
Iron	5150.0	5250.00	101.9	2620.0	2620.00	100.0	2640.00	100.8	P
Lead									
Magnesium	10200.0	10300.00	101.0	5360.0	5240.00	97.8	5300.00	98.9	P
Manganese	750.0	771.00	102.8	401.0	411.00	102.5	410.00	102.2	P
Mercury	5.0	5.06	101.2	5.0	4.36	87.2	4.53	90.6	CV
Nickel	2080.0	2100.00	101.0	1050.0	1030.00	98.1	1040.00	99.0	P
Potassium	10700.0	10900.00	101.9	5160.0	5830.00	113.0	5320.00	103.1	P
Selenium									
Silver	522.0	531.00	101.7	256.0	259.00	101.2	263.00	102.7	P
Sodium	10100.0	9420.00	93.3	4680.0	4740.00	101.3	4780.00	102.1	P
Thallium									
Vanadium	2570.0	2580.00	100.4	1290.0	1310.00	101.6	1320.00	102.3	P
Zinc	1010.0	1030.00	102.0	504.0	497.00	98.6	501.00	99.4	P
Cyanide									

1

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: OHM CORPORATION ANALYTICAL DIVISION Contract: NFESC

Lab Code: NA Case No.: 17418N SAS No.: NA SDG No.: CLJ78C500

Initial Calibration Source: NIST

Continuing Calibration Source: NIST

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury				5.0	4.61	92.2			CV
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: OHM CORPORATION ANALYTICAL DIVISION Contract: NFESC

Lab Code: NA Case No.: 17418N SAS No.: NA SDG No.: CLJ78C5001

Initial Calibration Source: INORGANIC VENTURES

Continuing Calibration Source: INORGANIC VENTURES

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
Antimony									
Arsenic	30.0	29.73	99.1	20.0	20.30	101.5	20.02	100.1	F
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	30.0	31.20	104.0	20.0	20.80	104.0	21.60	108.0	F
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium	40.0	42.12	105.3	20.0	20.40	102.0	19.49	97.5	F
Silver									
Sodium									
Thallium	30.0	30.70	102.3	20.0	21.80	109.0			F
Vanadium									
Zinc									
Cyanide									

1

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: OHM CORPORATION ANALYTICAL DIVISION Contract: NFESC

Lab Code: NA Case No.: 17418N SAS No.: NA SDG No.: CLJ78C5001

Initial Calibration Source: INORGANIC VENTURES

Continuing Calibration Source: INORGANIC VENTURES

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
Antimony									
Arsenic				20.0	21.20	106.0	21.84	109.2	F
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium				20.0	18.52	92.6	19.54	97.7	CV
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

2

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: OHM CORPORATION ANALYTICAL DIVISION Contract: NFESC

Lab Code: NA Case No.: 17418N SAS No.: NA SDG No.: CLJ78C500

Initial Calibration Source: INORGANIC VENTURES

Continuing Calibration Source: INORGANIC VENTURES

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
Antimony									
Arsenic				20.0	21.41	107.1			F
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium				20.0	20.10	100.5	20.14	100.7	F
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

3

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: OHM CORPORATION ANALYTICAL DIVISION Contract: NFESC

Lab Code: NA Case No.: 17418N SAS No.: NA SDG No.: CLJ78C5

Initial Calibration Source: INORGANIC VENTURES

Continuing Calibration Source: INORGANIC VENTURES

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium				20.0	19.50	97.5			F
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

4

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: OHM CORPORATION ANALYTICAL DIVISION Contract: NFESC

Lab Code: NA Case No.: 17418N SAS No.: NA SDG No.: CLJ78C500

Initial Calibration Source: INORGANIC VENTURES

Continuing Calibration Source: INORGANIC VENTURES

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium	40.0	36.46	91.2	20.0	21.01	105.1			F
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

5

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: OHM CORPORATION ANALYTICAL DIVISION Contract: NFESC

Lab Code: NA Case No.: 17418N SAS No.: NA SDG No.: CLJ78C5

Initial Calibration Source: INORGANIC VENTURES

Continuing Calibration Source: INORGANIC VENTURES

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium	30.0	31.80	106.0	20.0	21.80	109.0	21.30	106.5	F
Vanadium									
Zinc									
Cyanide									

4

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP
3
BLANKS

Lab Name: OHM CORPORATION ANALYTICAL DIVISION Contract: NFESC

Lab Code: NA Case No.: 17418N SAS No.: NA SDG No.: CLJ78CS-001

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	108.0	U	108.0	U	108.0	U	108.0	U	108.000	U	P
Antimony	22.4	U	22.4	U	22.4	U	22.4	U	22.400	U	P
Arsenic	1.7	U	1.7	U	1.7	U	1.7	U	1.700	U	P
Barium	0.9	U	0.9	U	0.9	U	0.9	U	0.900	U	P
Beryllium	0.8	U	0.8	U	0.8	U	0.8	U	0.800	U	P
Cadmium	1.2	U	1.2	U	1.2	U	1.2	U	1.200	U	P
Calcium	39.7	U	39.7	U	39.7	U	39.7	U	39.700	U	P
Chromium	2.2	U	2.2	U	2.2	U	2.2	U	2.200	U	P
Cobalt	2.4	U	3.1	B	2.4	U	2.4	U	2.400	U	P
Copper	3.2	U	3.2	U	3.2	U	3.2	U	3.200	U	P
Iron	15.5	U	15.5	U	15.5	U	15.5	U	16.400	B	P
Lead	24.5	U	24.5	U	24.5	U	24.5	U	1.000	U	P
Magnesium	24.2	U	24.2	U	24.2	U	24.2	U	24.200	U	P
Manganese	0.8	U	0.8	U	0.8	U	0.8	U	0.800	U	P
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	0.200	U	CV
Nickel	9.7	U	9.7	U	9.7	U	9.7	U	9.700	U	P
Potassium	813.0	U	813.0	U	813.0	U	813.0	U	813.000	U	P
Selenium	0.9	U	0.9	U	0.9	U	0.9	U	0.900	U	P
Silver	6.3	U	6.3	U	6.3	U	6.3	U	6.300	U	P
Sodium	320.0	U	32.0	U	320.0	U	320.0	U	320.000	U	P
Thallium	1.0	U	1.0	U					1.000	U	P
Vanadium	2.8	U	2.8	U	2.8	U	2.8	U	2.800	U	P
Zinc	3.4	U	3.4	U	3.4	U	3.4	U	3.400	U	P
Cyanide											

U.S. EPA - CLP
3
BLANKS

Lab Name: OHM CORPORATION ANALYTICAL DIVISION Contract: NFESC

Lab Code: NA Case No.: 17418N SAS No.: NA SDG No.: CLJ78CS-001

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic			1.7	U	1.7	U					F
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead											
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium			0.9	U	0.9	U	0.9	U			F
Silver											
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

U.S. EPA - CLP
3
BLANKS

Lab Name: OHM CORPORATION ANALYTICAL DIVISION Contract: NFESC

Lab Code: NA Case No.: 17418N SAS No.: NA SDG No.: CLJ78CS-001

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic											
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead											
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium			0.9	U							F
Silver											
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

U.S. EPA - CLP
3
BLANKS

Lab Name: OHM CORPORATION ANALYTICAL DIVISION Contract: NFESC

Lab Code: NA Case No.: 17418N SAS No.: NA SDG No.: CLJ78CS-001

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic											
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead											
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium	0.9	U	0.9	U							F
Silver											
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

U.S. EPA - CLP
3
BLANKS

Lab Name: OHM CORPORATION ANALYTICAL DIVISION Contract: NFESC

Lab Code: NA Case No.: 17418N SAS No.: NA SDG No.: CLJ78CS-001

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic											
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead											
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium											
Silver											
Sodium											
Thallium	1.0	U	1.0	U	1.0	U					F
Vanadium											
Zinc											
Cyanide											

U.S. EPA - CLP
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: OHM CORPORATION ANALYTICAL DIVISION Contract: NFESC

Lab Code: NA Case No.: 16032N SAS No.: NA SDG No.: CLJ78C5-001 ~~6GW2D45~~

ICP ID Number: 61 ICS Source: INORGANIC VENTURES

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	Final Found Sol. AB	%R
Aluminum	495000	490300	494000	499000.0	101.8	481000	484000.0	98.7
Antimony	0	1070	11	1060.0	99.1	41	1010.0	94.4
Arsenic								
Barium	0	477	0	504.0	105.7	10	494.0	103.6
Beryllium	0	472	0	483.0	102.3	0	476.0	100.8
Cadmium	0	973	8	1030	105.9	8	1030	105.9
Calcium	196000	241000	197000	249000.0	103.3	192000	242000.0	100.4
Chromium	0	468	-3	487.0	104.1	-8	477.0	101.9
Cobalt	0	471	-3	493.0	104.7	-2	485.0	103.0
Copper	0	477	7	484.0	101.5	4	466.0	97.7
Iron	190000	184000	195000	196000.0	106.5	190000	191000.0	103.8
Lead	0	1110	209	1260	113.5	244	1320	118.9
Magnesium	265000	262000	263000	265000.0	101.1	262000	264000.0	100.8
Manganese	0	491	16	518.0	105.5	16	511.0	104.1
Mercury								
Nickel	0	932	-1	968.0	103.9	-6	964.0	103.4
Potassium								
Selenium								
Silver	0	1030	-2	1060	102.9	-8	1030	100.0
Sodium								
Thallium								
Vanadium	0	489	11	516.0	105.5	11	505.0	103.3
Zinc	0	988	12	1010.0	102.2	11	982.0	99.4

U.S. EPA - CLP
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: OHM CORPORATION ANALYTICAL DIVISION Contract: NFESC

Lab Code: NA Case No.: 17418N SAS No.: NA SDG No.: CLJ78C5001

ICP ID Number: 61 ICS Source: INORGANIC VENTURES

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500800	491000	500000	500000.0	101.8	500000	499000.0	101.6
Antimony	0	1007	19	1100.0	109.2	36	1100.0	109.2
Arsenic								
Barium	0	477	4	508.0	106.5	4	509.0	106.7
Beryllium	0	472	0	477.0	101.1	0	479.0	101.5
Cadmium	0	973	4	996.0	102.4	4	999.0	102.7
Calcium	187900	241000	198000	248000.0	102.9	199000	248000.0	102.9
Chromium	0	468	-4	487.0	104.1	-2	505.0	107.9
Cobalt	0	471	-3	488.0	103.6	-2	486.0	103.2
Copper	0	477	1	484.0	101.5	9	487.0	102.1
Iron	196600	184200	193000	192000.0	104.2	193000	193000.0	104.8
Lead								
Magnesium	273900	262300	262000	262000.0	99.9	263000	262000.0	99.9
Manganese	0	491	15	513.0	104.5	17	511.0	104.1
Mercury								
Nickel	0	932	-8	953.0	102.3	-11	954.0	102.4
Potassium								
Selenium								
Silver	0	1033	-9	1060.0	102.6	-6	1060.0	102.6
Sodium								
Thallium								
Vanadium	0	489	10	508.0	103.9	14	511.0	104.5
Zinc	0	988	13	991.0	100.3	18	985.0	99.7
Cyanide								

N1M

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

0611

EPA SAMPLE NO.

CLJ78CS003

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix (soil/water): SOIL Level (low/med): MED

% Solids for Sample: _____

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum		7964.3555		6105.2627		1150.65	161.6		P
Antimony	75-125	16.1515		-2.4678	U	59.55	27.1	N	P
Arsenic	75-125	2.5166		.6365	B	2.21	85.1		F
Barium	75-125	225.0070		10.7018	B	218.88	97.9		P
Beryllium	75-125	5.3021		.0550	U	5.58	95.0		P
Cadmium	75-125	5.8034		.0901	U	6.07	95.6		P
Calcium	75-125	2082.9854		802.3391		1181.84	108.4		P
Chromium	75-125	30.2980		7.2982		23.08	99.7		P
Cobalt	75-125	54.6923		.7135	B	58.25	92.7		P
Copper	75-125	42.8850		4.0351		27.71	140.2	N	P
Iron	75-125	3686.9951		2093.5674		1149.54	138.6	N	P
Lead	75-125	87.3294		18.7134		62.17	110.4		P
Magnesium	75-125	1314.3970		161.4035	B	1208.58	95.4		P
Manganese	75-125	62.2668		5.8947		58.18	96.9		P
Mercury									NR
Nickel	75-125	56.5859		2.5263	B	57.77	93.6		P
Potassium	75-125	1214.1465		180.1169	B	1184.07	87.3		P
Selenium	75-125	2.3833		-.1238	U	2.21	107.8		F
Silver	75-125	4.7452		-.2561	U	4.62	102.7		P
Sodium	75-125	1225.2854		37.1930	U	1311.06	93.5		P
Thallium	75-125	2.1847		-.0573	U	2.21	98.9		F
Vanadium	75-125	61.4871		6.5731		57.78	95.0		P
Zinc	75-125	88.3319		19.5322		60.85	113.1		P
Cyanide									NR

Comments:

U.S. EPA - CLP

0612

EPA SAMPLE NO.

5A

SPIKE SAMPLE RECOVERY

CLJ78DS005

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix (soil/water): SOIL Level (low/med): MED

% Solids for Sample: _____

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury	75-125	.2635		.0696		.29	66.9	N	CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

0613 EPA SAMPLE NO.

CLJ78RB001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: _____

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	9870.0000		19.6000	U	10330.00	95.5		P
Antimony	75-125	493.0000		-9.2200	U	534.60	92.2		P
Arsenic	75-125	21.5000		-.2000	U	20.00	107.5		F
Barium	75-125	1980.0000		2.0300	B	1965.00	100.7		P
Beryllium	75-125	48.5000		.4900	U	50.10	96.8		P
Cadmium	75-125	50.4000		.5500	U	54.50	92.5		P
Calcium	75-125	10300.0000		114.0000	B	10610.00	96.0		P
Chromium	75-125	205.0000		1.7100	U	207.20	98.9		P
Cobalt	75-125	495.0000		2.3400	U	522.90	94.7		P
Copper	75-125	249.0000		4.3400	B	248.80	98.3		P
Iron	75-125	10000.0000		45.1000	B	10320.00	96.5		P
Lead	75-125	21.8000		1.3000	B	20.00	102.5		F
Magnesium	75-125	10000.0000		6.6400	U	10850.00	92.2		P
Manganese	75-125	500.0000		1.8200	B	522.30	95.4		P
Mercury	75-125	1.6100		-.3050	U	2.00	80.5		CV
Nickel	75-125	487.0000		1.2300	U	518.60	93.9		P
Potassium	75-125	10700.0000		982.0000	B	10630.00	91.4		P
Selenium	75-125	21.6000		-1.3700	U	20.00	108.0		F
Silver	75-125	47.7000		1.4600	U	41.50	114.9		P
Sodium	75-125	11300.0000		116.0000	U	11770.00	96.0		P
Thallium	75-125	24.5000		.5000	U	20.00	122.5		F
Vanadium	75-125	503.0000		1.6900	U	518.70	97.0		P
Zinc	75-125	514.0000		27.3000		546.30	89.1		P
Cyanide									NR

Comments:

U.S. EPA - CLP
6
DUPLICATES

0614

EPA SAMPLE NO.

CLJ78CS003

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix (soil/water): SOIL Level (low/med): MED

% Solids for Sample: _____ % Solids for Duplicate: _____

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		6105.2627		6163.7422		1		P
Antimony		-2.4678	U	-1.3333	U			P
Arsenic		.6365	B	.7532	B	.1		F
Barium		10.7018	B	10.9357	B	.2		P
Beryllium		.0550	U	.0538	U			P
Cadmium		.0901	U	.0386	U			P
Calcium	580	802.3391		812.8655		10.5		P
Chromium		7.2982		7.1345		2.3		P
Cobalt		.7135	B	.5567	B	.2		P
Copper	2.9	4.0351		4.6901		.7		P
Iron		2093.5674		2116.9590		1.1		P
Lead		18.7134		18.9474		1.2		P
Magnesium		161.4035	B	163.7427	B	2.3		P
Manganese	1.8	5.8947		6.1988		.3		P
Mercury								NR
Nickel		2.5263	B	2.3626	B	.2		P
Potassium		180.1169	B	197.6608	B	17.5		P
Selenium		-.1238	U	-.0138	U			F
Silver		-.2561	U	.2000	U			P
Sodium		37.1930	U	37.0760	U			P
Thallium		-.0573	U	-.0106	U			F
Vanadium	5.8	6.5731		6.9591		.4		P
Zinc		19.5322		19.2982		1.2		P
Cyanide								NR

U.S. EPA - CLP

6

DUPLICATES

0615

EPA SAMPLE NO.

CLJ78DS005

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix (soil/water): SOIL Level (low/med): MED

% Solids for Sample: _____ % Solids for Duplicate: _____

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic								NR
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead								NR
Magnesium								NR
Manganese								NR
Mercury	.011	.0696		.0520		.02	*	CV
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Cyanide								NR

U.S. EPA - CLP 0616 EPA SAMPLE NO.

6
DUPLICATES

CLJ78RB001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: _____ % Solids for Duplicate: _____

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		19.6000	U	22.5000	U			P
Antimony		-9.2200	U	-3.1500	U			P
Arsenic		-.2000	U	.0700	U			F
Barium		2.0300	B	.1300	U	2.0		P
Beryllium		.4900	U	.4000	U			P
Cadmium		.5500	U	-.5100	U			P
Calcium		114.0000	B	121.0000	B	7.0		P
Chromium		1.7100	U	-2.1000	U			P
Cobalt		2.3400	U	2.5700	B	2.6		P
Copper		4.3400	B	1.7400	U	4.3		P
Iron		45.1000	B	41.6000	B	3.5		P
Lead		1.3000	B	.8000	U	1.3		F
Magnesium		6.6400	U	18.1000	U			P
Manganese		1.8200	B	4.2100	B	2.4		P
Mercury		-.3050	U	-.1430	U			CV
Nickel		1.2300	U	3.4000	U			P
Potassium		982.0000	B	635.0000	U	982.0		P
Selenium		-1.3700	U	-.7000	U			F
Silver		1.4600	U	.3700	U			P
Sodium		116.0000	U	108.0000	U			P
Thallium		.5000	U	.6000	U			F
Vanadium		1.6900	U	3.1500	B	3.1		P
Zinc	20	27.3000		27.9000		.6		P
Cyanide								NR

U.S. EPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

0617 EPA SAMPLE NO.

CLJ78CS003

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Matrix (soil/water): SOIL Level (low/med): MED

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony		.50		-.02	U	.6	83.3		P
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper		.29		.03		.3	86.7		P
Iron		28.40		17.90		11.1	94.6		P
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

0618

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Solid LCS Source: _____

Aqueous LCS Source: INORGANIC VENTURES

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	10330	9480.00	91.8						
Antimony	534.6	450.00	84.2						
Arsenic	20.0	19.90	99.5						
Barium	1965.0	1910.00	97.2						
Beryllium	50.1	46.40	92.6						
Cadmium	54.5	50.30	92.3						
Calcium	10610	9970.00	94.0						
Chromium	207.2	197.00	95.1						
Cobalt	522.9	487.00	93.1						
Copper	248.8	228.00	91.6						
Iron	10320	9740.00	94.4						
Lead	558.1	518.00	92.8						
Magnesium	10850	9850.00	90.8						
Manganese	522.3	491.00	94.0						
Mercury	5.0	4.52	90.4						
Nickel	518.6	484.00	93.3						
Potassium	10630	9880.00	92.9						
Selenium	20.0	20.20	101						
Silver	41.5	40.90	98.6						
Sodium	11770	10700.00	90.9						
Thallium	20.0	20.40	102						
Vanadium	518.7	486.00	93.7						
Zinc	546.3	481.00	88.0						
Cyanide									

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78CS001

Solid LCS Source: _____

Aqueous LCS Source: INORGANIC VENTURES

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	10330	9780.00	94.7						
Antimony	534.6	485.00	90.7						
Arsenic	20.0	20.70	104						
Barium	1965.0	1980.00	101						
Beryllium	50.1	48.30	96.4						
Cadmium	54.5	49.70	91.2						
Calcium	10610	10000.00	94.3						
Chromium	207.2	203.00	98.0						
Cobalt	522.9	490.00	93.7						
Copper	248.8	242.00	97.3						
Iron	10320	9840.00	95.3						
Lead	20.0	20.70	104						
Magnesium	10850	9880.00	91.1						
Manganese	522.3	501.00	95.9						
Mercury	2.0	1.67	83.5						
Nickel	518.6	483.00	93.1						
Potassium	10630	10100.00	95.0						
Selenium	20.0	20.20	101						
Silver	41.5	45.90	111						
Sodium	11770	11000.00	93.5						
Thallium	20.0	23.90	120						
Vanadium	518.7	495.00	95.4						
Zinc	546.3	489.00	89.5						
Cyanide									

CHAIN-OF-CUSTODY RECORD(S)

OHM Remediation Services Corp.

CHAIN-OF-CUSTODY RECORD

LAB COPY

Form 0019
Field Technical Services
Rev. 08/89

165618

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME	PROJECT LOCATION
Camp LeJeune Bldg 25	Camp LeJeune, NC.

PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.
17418	A. Whitt / S. Dunbar	910-451-2599

CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR
Vann Marshburn	L. Dunn / A. Whitt

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	40 ml VOA, SVOA, PesT/PcB	1 LT amber glass	1 LT Plastic	4 oz. VOA	16 oz Glass				REMARKS
1	CLI78RB001	11/16/96	1230			Equipment Rinsate	4	2	1	1						VOA (8240), SVOA (8270), PesT/PcB (8080) TAL metals (6010/7000), TPH 418.1
2	CLI78CS001		1330	✓		Confirmation Sample Back wall					1	2				VOA (8240), SVOA 3550/8270, PesT/PcB 3552/8082, TAL metals 3050/6010/7000
3	CLI78CS002		1340	✓		Confirmation Sample Right wall					1	2				TPH 418.1 1-4oz, 1-16oz 1-Amber wd. 2d
4	CLI78CS003		1350	✓		Confirmation Sample Front wall					1	2				Same As Above
5	CLI78CS004		1400	✓		Confirmation Sample Left wall					1	2				Same As Above
6	CLI78CS005		1510	✓		Confirmation Sample Bottom					1	2				Same As Above
7	CLI78DS005		1510	✓		Duplicate Confirmation Sample Bottom					1	2				Same As Above
8																
9	TRIP BLANK	og				Water og	240ml og									
10																

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-7	Scott Dunbar	Fed-Ex	1-16-96	1700
2	1-7,9	Fedex 6921491172	Donita Jensen	1-18-96	1046
3					
4					

REMARKS

3 day T.A.T.

SAMPLER'S SIGNATURE: Scott Dunbar

0621

Appendix G.3

Temporary Monitoring Well Groundwater and Soil Data

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Soil Semi-Volatile Organics by GC/MS	0220
Water Semi-Volatile Organics by GC/MS	0321
VOLUME III of III	
Organics Analysis Report Package (continued)	
Soil Pesticides/PCBs by GC	0539
Water Pesticides/PCBs by GC	0599
Soil Total Petroleum Hydrocarbons by IR	0672
Water Total Petroleum Hydrocarbons by IR	0696
Inorganic Analysis Report Package	
Metals	0726
Conventionals	0774
Chain-of-Custody Record(s)	0777

OHM Remediation Services Corp.
A Subsidiary of OHM Corporation

ANALYTICAL DIVISION

Laboratory Analysis

Report(s) #619213 VOLUME I OF III

Client: OHM Remediation Services Corp.
Southern Region (Norcross, GA)

Attn: Jim Dunn

Project: 17418N - Camp Lejeune, North Carolina

Sample(s) Received: November 14, 1995 **Order Received:** November 14, 1995

This report is "PROPRIETARY AND CONFIDENTIAL" and delivered to, and intended for the exclusive use of the above named client only. OHM Remediation Services Corp., Analytical Division, assumes no responsibility or liability for the reliance hereon or use hereof by anyone other than the above named client.

Reviewed and Approved by: *Thomas E. Gran, Ph.D., Vice President* *Date:* *December 21, 1995*

16406 U.S. Route 224 East ▪ P.O. Box 551 ▪ Findlay, OH 45839-0551 ▪ 419-423-3526

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Soil Semi-Volatile Organics by GC/MS	0220
Water Semi-Volatile Organics by GC/MS	0321
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Conventionals	0774
Chain-of-Custody Record(s)	0777

Narrative for SDG # CLJ78TW001

Laboratory: OHM Remediation Services Corp.
Analytical Division

Project #: 17418

Project Location: Camp LeJeune, Jacksonville, NC

Samples in this Sample Delivery Group (SDG):

CLJ78TW001	CLJ78TW01D	CLJ78TW002	CLJ78TW02D
CLJ78TW003	CLJ78TW004	CLJ78-FB	CLJ78-RB

There was a water sample and a soil sample collected for each sample point above except for the duplicate samples designated with a "D" suffix and the Field Blank and Rinsate Blank.

Soil Volatile Organics by GC/MS

One of 27 surrogate recoveries were outside QC limits.

Zero of 12 matrix spike recoveries and zero of 6 matrix RPD's were outside QC limits.

All target compounds were spiked for this analytical batch. Only the required CLP spiking compounds were reported on Form III.

There were low levels of target compounds detected in the method blank. All results affected have been flagged with the appropriate qualifier.

Initial and continuing calibration criteria were met.

All internal standard criteria were met for this SDG.

All holding times were met for this SDG.

Water 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 33 surrogate recoveries were outside QC limits.

Zero of 12 matrix spike recoveries and zero of 6 matrix RPD's were outside QC limits.

All target compounds were spiked for this analytical batch. Only the required CLP spiking compounds were reported on Form III.

Low levels of Methylene Chloride and Tetrachloroethylene were detected in the method blank and should therefore, be taken into consideration when assessing the data. All affected data has been flagged with the appropriate qualifier.

Initial and continuing calibration criteria were met.

All internal standard criteria were met for this SDG.

All holding times were met for this SDG.

Soil Semivolatile Organics by GC/MS

Zero of 54 surrogates were outside QC limits.

One of 22 matrix spike recoveries and zero of 11 matrix RPD's were outside QC limits.

All method blank criteria were met for this SDG.

All compounds met initial calibration criteria.

All internal standard area counts and retention times were within QC limits.

GPC cleanup was performed on the solid samples submitted in this SDG.

All holding times were met for this SDG.

Water Semivolatile Organics by GC/MS

Zero of 66 surrogates were outside QC limits.

Zero of 22 matrix spike recoveries and zero of 11 matrix RPD's were outside QC limits.

All method blank criteria were met for this SDG.

All compounds met initial calibration criteria.

All internal standard area counts and retention times were within QC limits.

All holding times were met for this SDG.

Soil Pesticides/PCBs by GC

Multiple analytical runs were combined and reported on one CLP FORM I PEST data sheet. The chromatograms were arranged with all of the primary analysis presented first followed by the confirmation analytical runs.

Zero of 18 surrogates were outside QC limits.

One of 42 matrix spike recoveries and four of 21 matrix RPD's were outside QC limits.

All method blank criteria were met for this SDG.

All initial and continuing calibration criteria were met.

No GPC cleanup was performed on solid samples submitted in this SDG.

All holding times were met for this SDG.

Water Pesticides/PCBs by GC

Multiple analytical runs were combined and reported on one CLP FORM I PEST data sheet. The chromatograms were arranged with all of the primary analysis presented first followed by the confirmation analytical runs.

One of 22 surrogates were outside CLP Advisory QC limits listed on FORM II PEST 1&2. Since this SDG was analyzed under RCRA protocol and reported on CLP forms, the RCRA method recovery limits will apply. RCRA methodology requires one surrogate recovery per sample to be within QC acceptance limits in the primary/quantitation analysis. Therefore, all samples met RCRA surrogate recovery criteria for this SDG.

Zero of 42 matrix spike recoveries and zero of 21 matrix RPD's were outside QC limits.

All method blank criteria were met for this SDG.

All initial and continuing calibration criteria were met.

All holding times were met for this SDG.

Soil Total Petroleum Hydrocarbons by IR

All method blank criteria were met for this SDG.

Zero of 2 matrix spike recoveries and zero of 1 matrix RPD's were outside QC limits.

All initial and continuing calibration criteria were met for this SDG.

All sample holding times were met for this SDG.

Water Total Petroleum Hydrocarbons by IR

Low levels of target analyte were detected in the method blank and should therefore, be taken into consideration when assessing the data. All affected data has been flagged with the appropriate qualifier.

Zero of 2 matrix spike recoveries and zero of 1 matrix RPD's were outside QC limits.

All initial and continuing calibration criteria were met for this SDG.

All sample holding times were met for this SDG.

Signature: _____ Name: William A. Fithian
Date: 12/20/95 Title: Technical Project Manager

SUMMARY OF ANALYTICAL METHODOLOGY

Parameter	Reference	Method
Conventionals		
Particle-Size (solid)	ASTM	D422-63
Metals		
Total Metals by ICP	SW-846	6010
Mercury by Cold Vapor (solid)	SW-846	7471
Mercury by Cold Vapor (liquid)	SW-846	7470
Arsenic by GFAA	SW-846	7060
Lead by GFAA	SW-846	7421
Thallium by GFAA	SW-846	7841
Selenium by GFAA	SW-846	7740
Organics		
Volatile Organic Compounds by GC/M	CLP SOW	OLM03.1
Semi-volatile Organic Compounds by GC/M	CLP SOW	OLM03.1
Pesticides and/or PCBs by GC	SW-846	8080
Total Petroleum Hydrocarbons (TPHC) by IR	MCAWW	418.1

ORGANICS

Soil Volatile Organics by GC/MS

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

0007

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Level: (low/med) ____

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLK01	89	87	85		0
02	CLJ78TW002	100	97	93		0
03	CLJ78TW003	104	94	90		0
04	CLJ78TW01D	102	96	92		0
05	CLJ78TW001	103	98	96		0
06	CLJ78TW004	98	95	86		0
07	CLJ78TW003MS	98	100	94		0
08	CLJ78TW003MSD	98	96	92		0
09	VSPK01	81 *	82	86		1

		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

3B
SOIL VOLATILE MATRIX SPIKE RECOVERY

0008

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Matrix Spike - EPA Sample No.: CLJ78TW003 Level: (low/med) ____

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethylene	54	0	52	96	59-172
Trichloroethylene	54	.6	50	91	62-137
Benzene	54	0	54	100	66-142
Toluene	54	.9	55	100	59-139
Chlorobenzene	54	0	55	102	60-133
1,2-cis-Dichloroethylene	54	0	53	98	30-130

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

* Values outside of QC limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS: _____

3B
SOIL VOLATILE MATRIX SPIKE DUPLICATE RECOVERY

0009

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Matrix Spike - EPA Sample No.: CLJ78TW003 Level: (low/med) ____

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethylene	54	49	91	6	22	59-172
Trichloroethylene	54	49	90	2	24	62-137
Benzene	54	54	100	.2	21	66-142
Toluene	54	54	98	2	21	59-139
Chlorobenzene	54	54	100	2	21	60-133
1,2-cis-Dichloroethylene	54	56	104	5	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 6 outside limits
Spike Recovery: 0 out of 6 outside limits

COMMENTS: _____

3B
SOIL VOLATILE BLANK SPIKE RECOVERY

0010

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

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-Dichloroethylene	50	0	38	76	59-172
Trichloroethylene	50	1	39	76	62-137
Benzene	50	0	43	86	66-142
Toluene	50	0	41	82	59-139
Chlorobenzene	50	0	44	88	60-133
1,2-cis-Dichloroethylene	50	0	43	86	30-130

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

* Values outside of QC limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

0011

VBLK01

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Lab File ID: C6915 Lab Sample ID: N2V4794V

Date Analyzed: 11/20/95 Time Analyzed: 13:54

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

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	CLJ78TW002	JP0320V	C6917	15:14
02	CLJ78TW003	JP0321V	C6918	16:33
03	CLJ78TW01D	JP0319V	C6919	17:11
04	CLJ78TW001	JP0318V	C6920	17:55
05	CLJ78TW004	JP0322V	C6921	18:45
06	CLJ78TW003MSD	JP0321VR	C6937	15:08
07	VSPK01	N2V4794VS	C6934	12:17
08	CLJ78TW003MS	JP0321VS	C6936	14:34

COMMENTS:

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: OHM Analytical Contract: DFESC

Lab Code: N/A Case No.: 1748N SAS No.: N/A SDG No.: CLJ78TW001

Lab File ID: C 6497 BFB Injection Date: 11-2-95

Instrument ID: MSC.1 BFB Injection Time: 0731

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	24.28
75	30.0 - 66.0% of mass 95	47.10
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	8.39
173	Less than 2.0% of mass 174	0.00 (0.00)1
174	50.0 - 120.0% of mass 95	62.79
175	4.0 - 9.0 % of mass 174	5.42 (8.63)1
176	93.0 - 101.0% of mass 174	61.30 (97.62)1
177	5.0 - 9.0% of mass 176	4.94 (8.07)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	VSTD010	VSTD010	C6498	11-2-95	0813
02	VSTD020	VSTD020	C6499	11-2-95	0854
03	VSTD050	VSTD050	C6500	11-2-95	0927
04	VSTD100	VSTD100	C6501	11-2-95	1001
05	VSTD200	VSTD200	C6502	11-2-95	1035
06					
07					
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5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

0013

Lab Name: OHM Analytical Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Lab File ID: c6906 BFB Injection Date: 11-20-95

Instrument ID: MSC.i BFB Injection Time: 0659

GC Column: DB 624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	26.53
75	30.0 - 66.0% of mass 95	49.96
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	8.44
173	Less than 2.0% of mass 174	0.00 (0.00) 1
174	50.0 - 120.0% of mass 95	63.78
175	4.0 - 9.0 % of mass 174	4.86 (7.61) 1 12-4-95 KB
176	93.0 - 101.0% of mass 174	64.18 (100.63) 1
177	5.0 - 9.0% of mass 176	4.06 (6.33) 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	VBIK01	N2V4794V	c6915	11-20-95	1354
02	CLJ78TW002	JP0320V	c6917	11-20-95	1514
03	CLJ78TW003	JP0321V	c6918	11-20-95	1633
04	CLJ78TW01D	JP0319V	c6919	11-20-95	1711
05	CLJ78TW001	JP0318V	c6920	11-20-95	1755
06	CLJ78TW004	JP0322V	c6921	11-20-95	1845
07					
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21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: OHM Analytical Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Lab File ID: C6926 BFB Injection Date: 11-21-95

Instrument ID: MSC.i BFB Injection Time: 0709

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	25.89
75	30.0 - 66.0% of mass 95	51.37
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	8.45
173	Less than 2.0% of mass 174	0.25 (0.40) 1
174	50.0 - 120.0% of mass 95	63.32
175	4.0 - 9.0 % of mass 174	5.12 (8.09) 1
176	93.0 - 101.0% of mass 174	61.12 (96.51) 1
177	5.0 - 9.0% of mass 176	4.64 (7.59) 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	VSPK01	N2Y4794VS	C6934	11-21-95	1217
02	CLJ78TW003MS	JP0321VS	C6936	11-21-95	1434
03	CLJ78TW003MSD	JP0321VR	C6937	11-21-95	1508
04					
05					
06					
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22					

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0015

Lab Name: OHM Analytical Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Lab File ID (Standard): C6908 Date Analyzed: 11-20-95

Instrument ID: MSC.1 Time Analyzed: 0808

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

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	241484	10.58	1120684	12.57	888894	18.71
	UPPER LIMIT	482968	11.08	2241368	13.07	1777788	19.21
	LOWER LIMIT	120742	10.08	560342	12.07	444447	18.21
	EPA SAMPLE NO.						
01	VB1K01	222737	10.35	960568	12.34	779491	18.49
02	CLJ78TW002	206573	10.63	928670	12.63	729236	18.76
03	CLJ78TW003	204853	10.78	929520	12.80	709633	18.91
04	CLJ78TW01D	203998	10.68	917654	12.69	724046	18.79
05	CLJ78TW001	204951	10.69	931025	12.69	708197	18.85
06	CLJ78TW004	213684	10.48	915014	12.46	750724	18.61
07							
08							
09							
10							
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12							
13							
14							
15							
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17							
18							
19							
20							
21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

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

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

page ___ of ___

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0016

Lab Name: OHM Analytical Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Lab File ID (Standard): C6927 Date Analyzed: 12-4-95 KB ~~[illegible]~~ 11-21-95

Instrument ID: MSC.1 Time Analyzed: 0741

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

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	234748	10.39	1041074	12.39	846305	18.54
	UPPER LIMIT	469496	10.89	2082148	12.89	1692610	19.04
	LOWER LIMIT	117374	9.89	520537	11.89	423152	18.04
	EPA SAMPLE NO.						
01	VSPK01	272368	10.63	1202778	12.64	987219	18.78
02	CLJ78TW003MS	187325	10.69	840389	12.69	677366	18.81
03	CLJ78TW003MSD	198779	10.65	868490	12.65	711061	18.80
04							
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18							
19							
20							
21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

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

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

page ___ of ___

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0017

CLJ78TW001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Matrix: (soil/water) SOIL Lab Sample ID: JP0318V

Sample wt/vol: 5.51 (g/mL) G Lab File ID: C6920

Level: (low/med) LOW Date Received: 11/14/95

% Moisture: not dec. 26 Date Analyzed: 11/20/95

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ~~5000~~ N/A (uL) Soil Aliquot Volume: ~~5000~~ N/A (uL)

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

CAS NO.	COMPOUND		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	53	B
67-64-1	Acetone	15	
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	6	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
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	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	1	J
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	13	B
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	1	J
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	.6	J
1330-20-7	Xylene (total)	1	BJ

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0018

EPA SAMPLE NO.

CLJ78TW001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Matrix: (soil/water) SOIL Lab Sample ID: JP0318V

Sample wt/vol: 5.51 (g/mL) G Lab File ID: C6920

Level: (low/med) LOW Date Received: 11/14/95

% Moisture: not dec. 26 Date Analyzed: 11/20/95

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ~~5000~~ N/A (uL) Soil Aliquot Volume: ~~5000~~ N/A (uL)

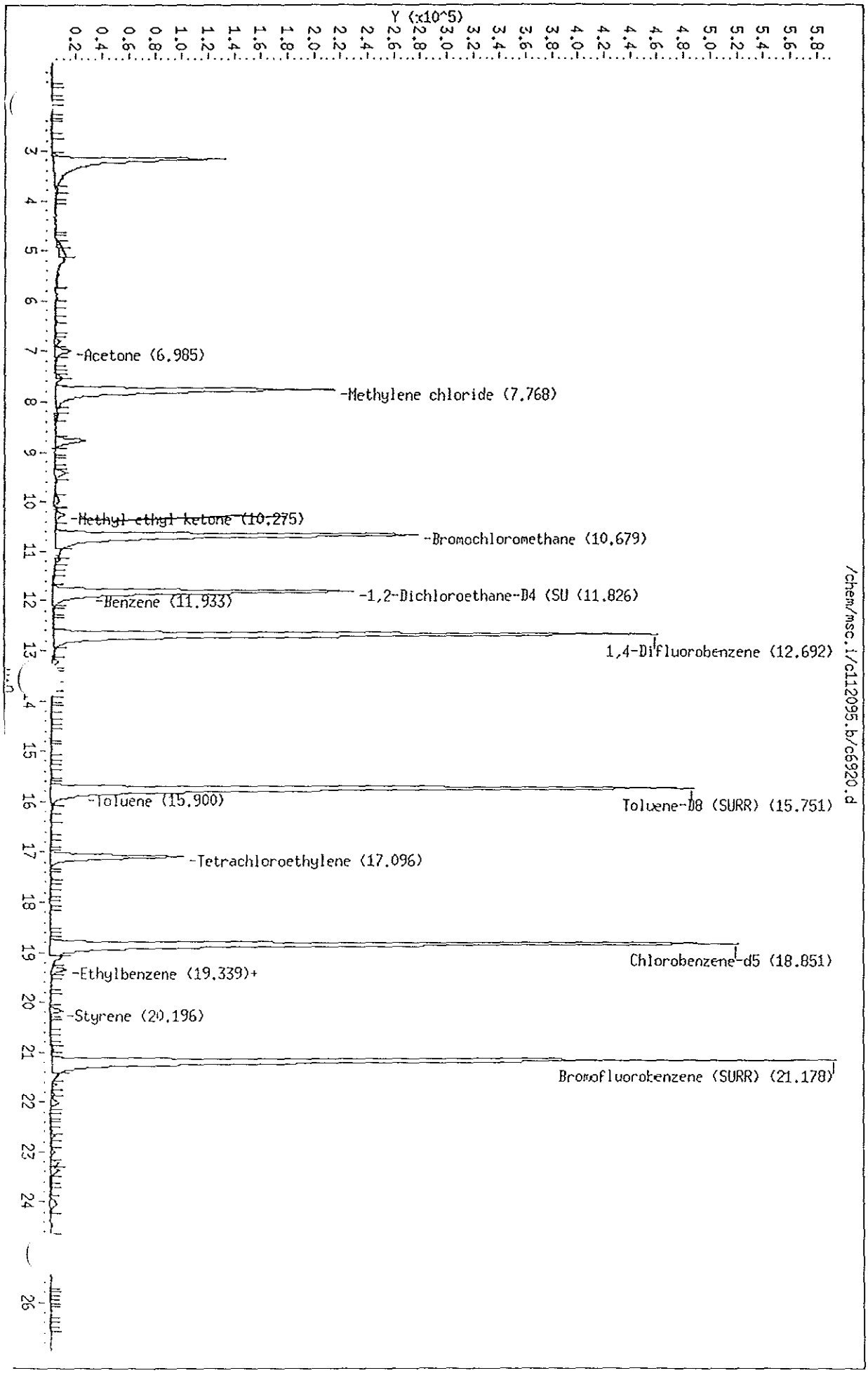
Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: /chem/msc.i/c112095.b/c6920.d
Date : 20-NOV-95 17:55
Client ID: 17418n clj78t001
Sample Info: 17418n clj78tw001
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i
Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c112095.b/c6920.d
Report Date: 21-Nov-1995 06:22

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240 & Screen

Data file : /chem/msc.i/c112095.b/c6920.d
Lab Smp Id: Client Smp ID: 17418n clj78t001
Inj Date : 20-NOV-95 17:55
Operator : jk Inst ID: msc.i
Smp Info : 17418n clj78tw001
Misc Info : jp0318v,n2v4794,m2,5000,1,5.51,5.0,951120,
Comment :
Method : /chem/msc.i/c112095.b/110295_8240heatc.m
Meth Date : 21-Nov-1995 06:18 glenn Quant Type: ISTD
Cal Date : 20-NOV-95 08:08 Cal File: c6908.d
Als bottle: 13
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

MK 11/21/95

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
		Acetone	43.00	6.985	6.965	(0.654)	49576	12.2	12.2
	12	Methylene chloride	84.00	7.768	7.659	(0.727)	270609	43.2	43.2
	18	Methyl ethyl ketone	72.00	10.267	10.205	(0.809)	3906	3.03	~~3.03(a)~~ MS
•	20	Bromochloromethane	128.00	10.679	10.577	(1.000)	204851	50.0	
$	24	1,2-Dichloroethane-D4 (SURR)	65.00	11.818	11.711	(1.107)	423847	48.2	48.2
	25	Benzene	78.00	11.933	11.818	(0.940)	16317	0.890	0.890(a)
•	27	1,4-Difluorobenzene	114.00	12.692	12.571	(1.000)	931025	50.0	
$	34	Toluene-D8 (SURR)	98.00	15.751	15.623	(0.836)	867697	51.7	51.7
	35	Toluene	92.00	15.900	15.756	(0.843)	13336	1.11	1.11
	38	Tetrachloroethylene	164.00	17.104	16.956	(0.907)	69247	10.7	10.7
•	42	Chlorobenzene-d5	117.00	18.851	18.710	(1.000)	708197	50.0	
	44	Ethylbenzene	106.00	19.339	18.976	(1.026)	7571	1.08	~~1.08~~ MS
	45	m+p-Xylenes	106.00	19.339	19.224	(1.026)	7571	0.868	~~0.868(a)~~ MS OK
	47	Styrene	104.00	20.196	20.043	(1.071)	7352	0.525	0.525(a)
$	49	Bromofluorobenzene (SURR)	95.00	21.178	21.053	(1.123)	634126	49.2	49.2

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: /chem/msc.i/c112095.b/c6920.d

Date : 20-NOV-95 17:55

Client ID: 17418n clj78t001

Instrument: msc.i

Sample Info: 17418n clj78tw001

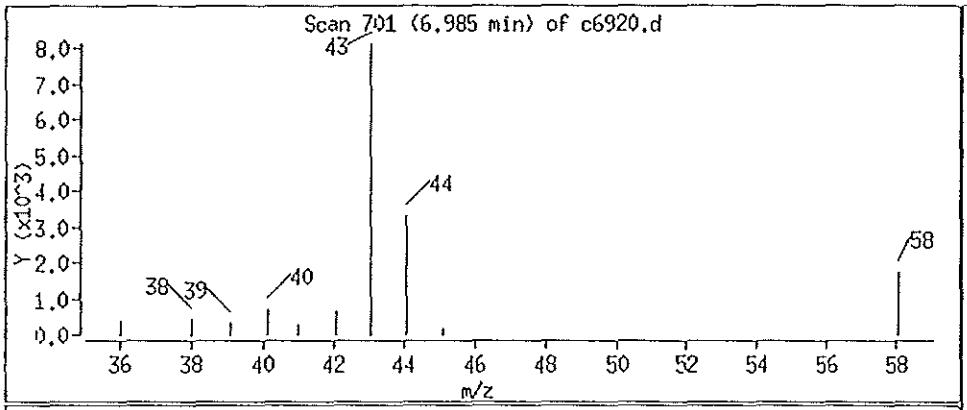
Purge Volume: 1.0

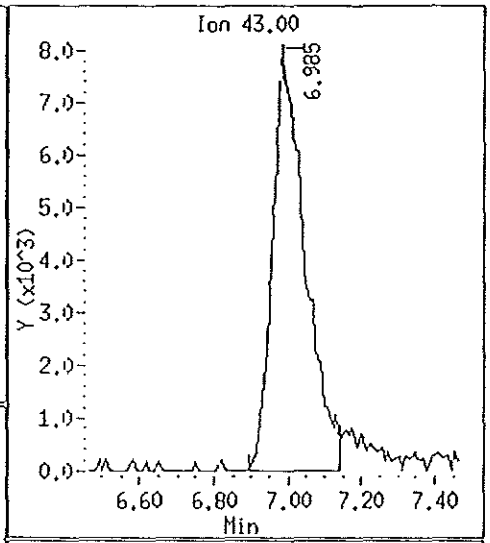
Operator: jk

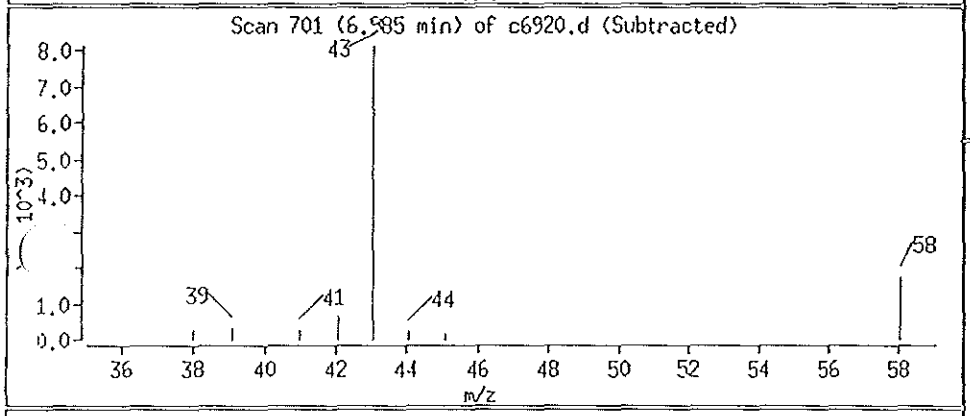
Column phase: J&W DB_624

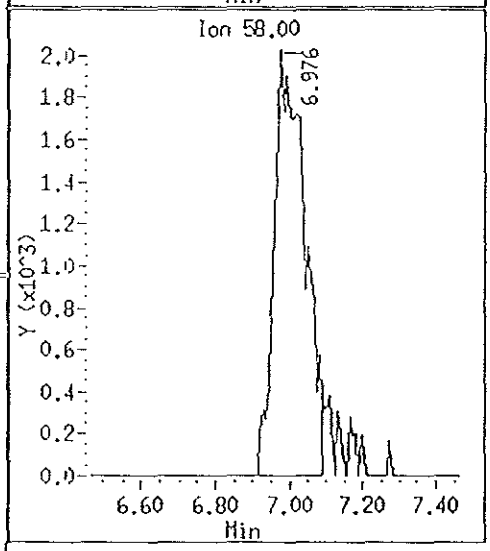
Column diameter: 0.53

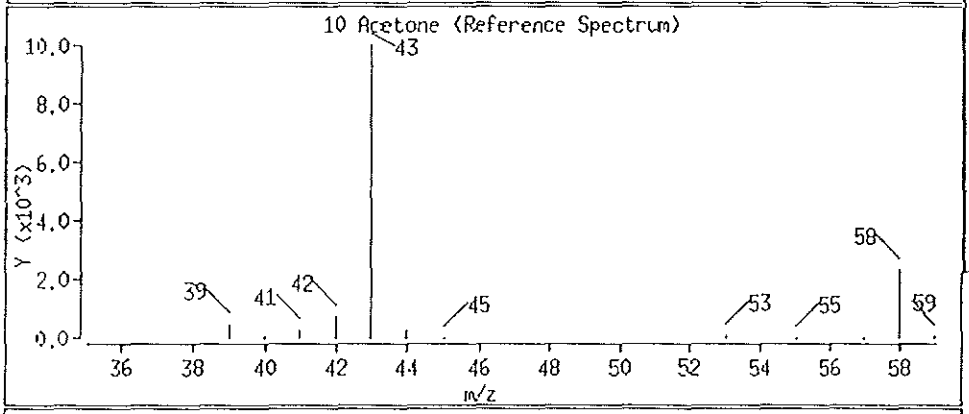
10 Acetone

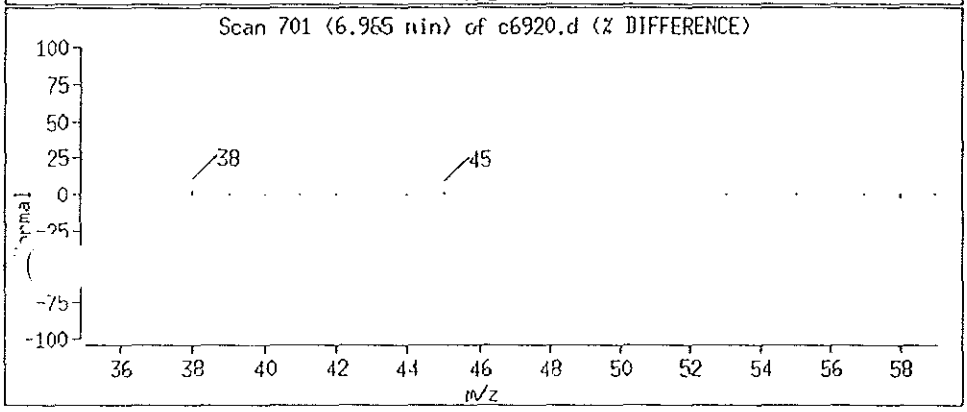












0022

Data File: /chem/msc.i/c112095.b/c6920.d

Date : 20-NOV-95 17:55

Client ID: 17418n clj78t001

Sample Info: 17418n clj78tw001

Purge Volume: 1.0

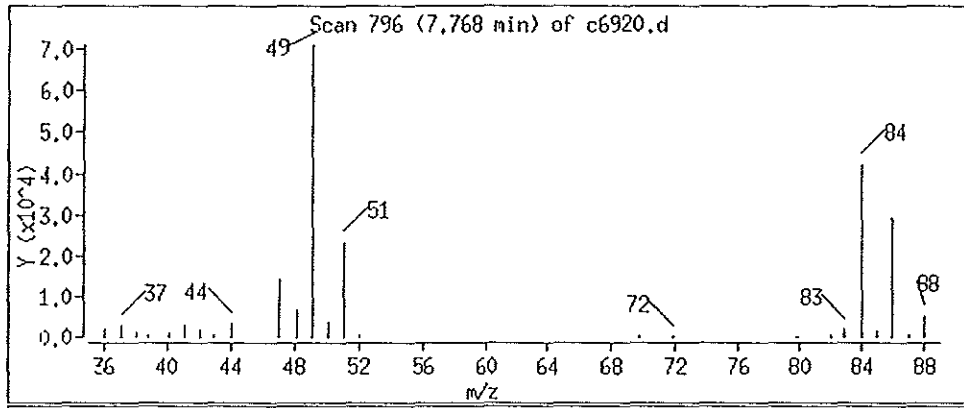
Column phase: J&W DB_624

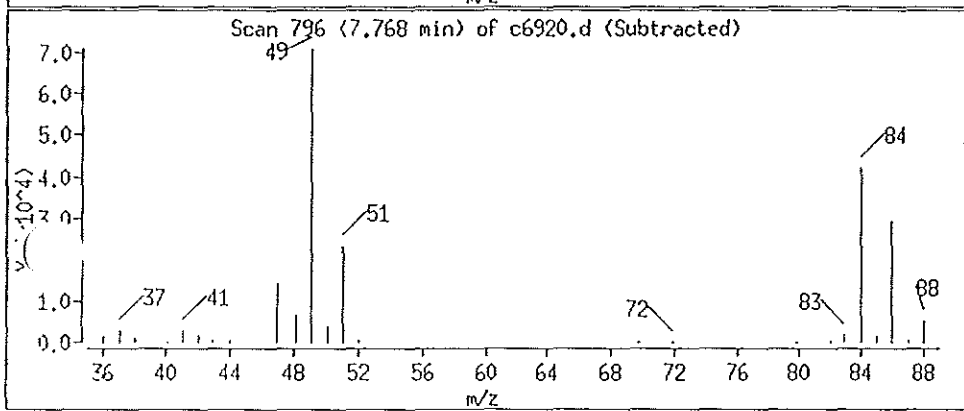
Instrument: msc.i

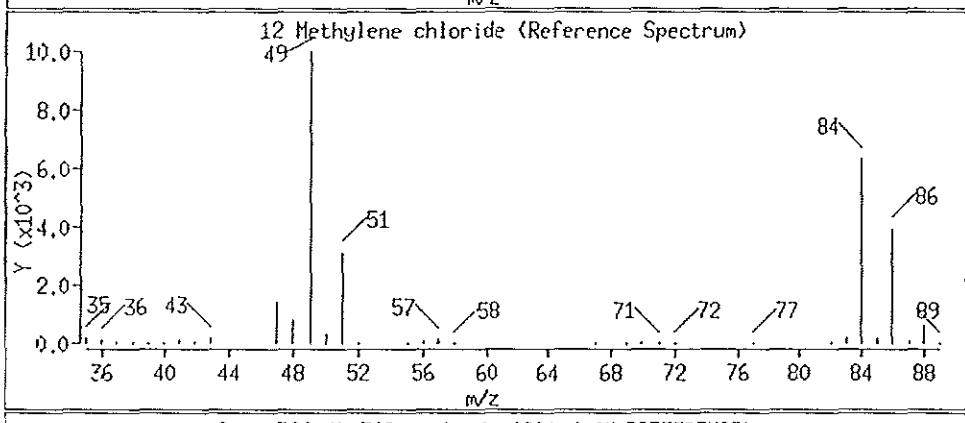
Operator: jk

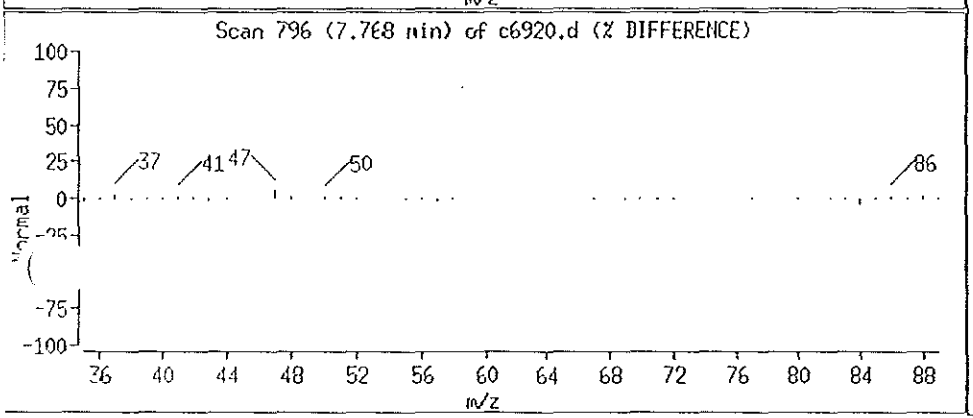
Column diameter: 0.53

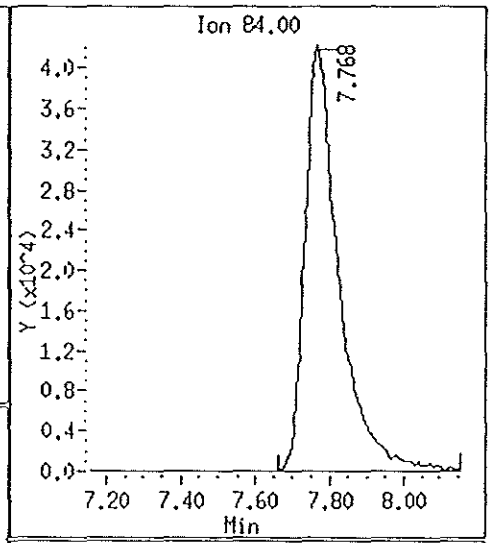
12 Methylene chloride

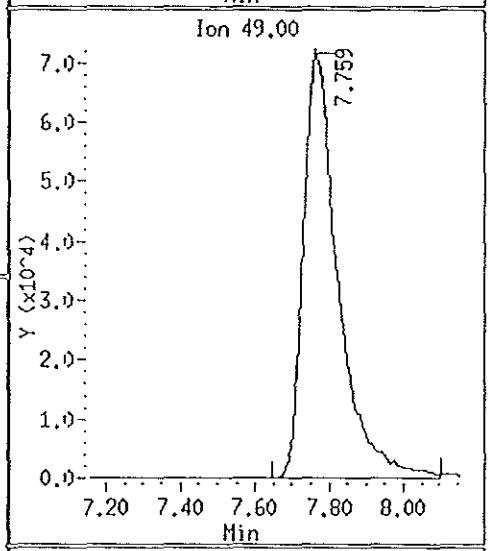


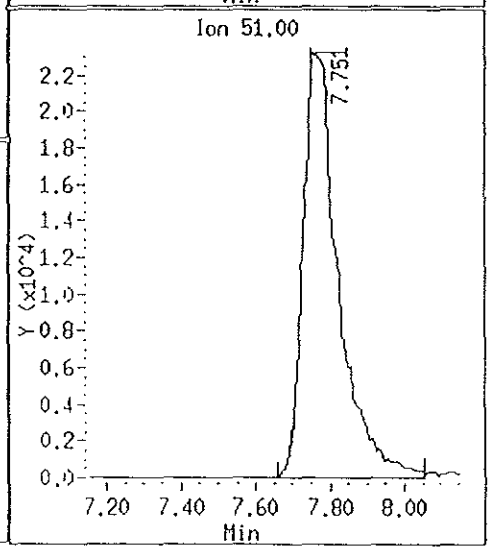












Data File: /chem/msc.i/c112095.b/c6920.d

Date : 20-NOV-95 17:55

Client ID: 17418n clj78t001

Sample Info: 17418n clj78tw001

Purge Volume: 1.0

Column phase: J&W DB_624

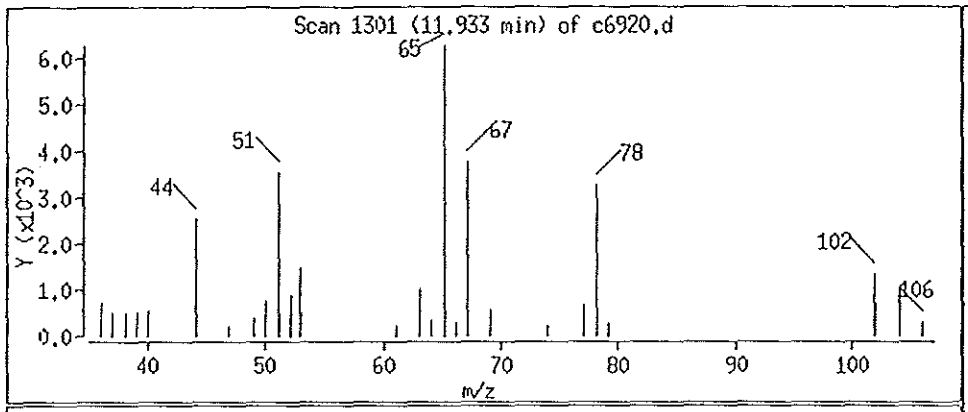
Instrument: msc.i

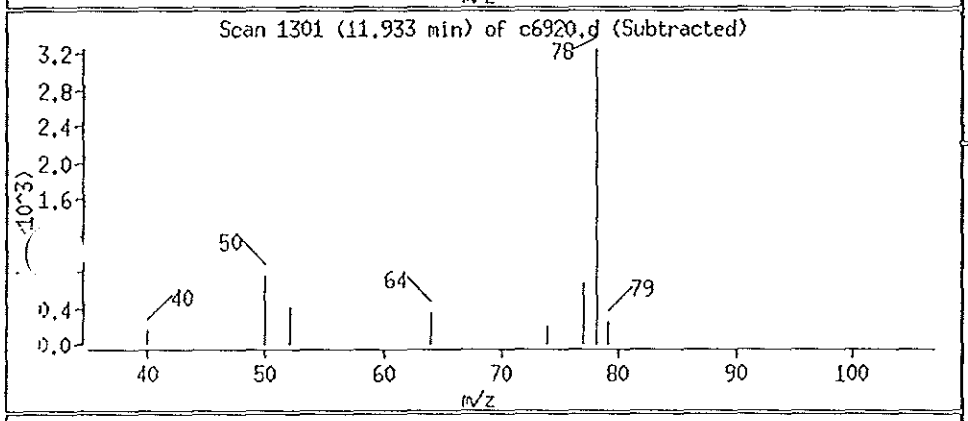
Operator: jk

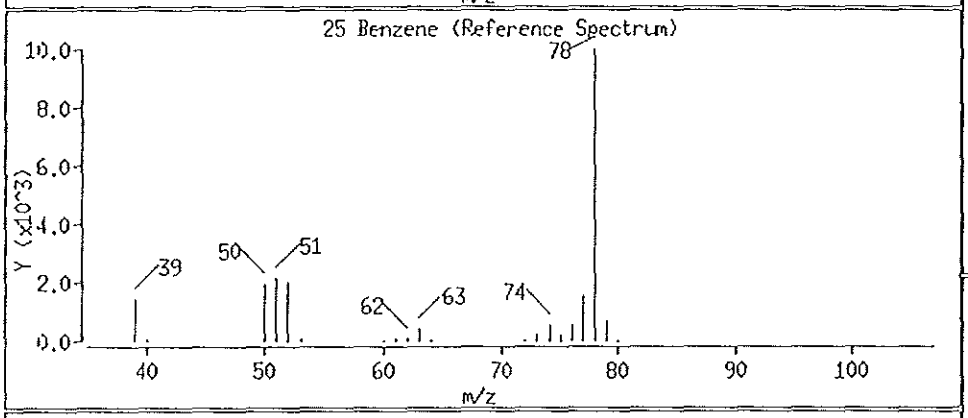
Column diameter: 0.53

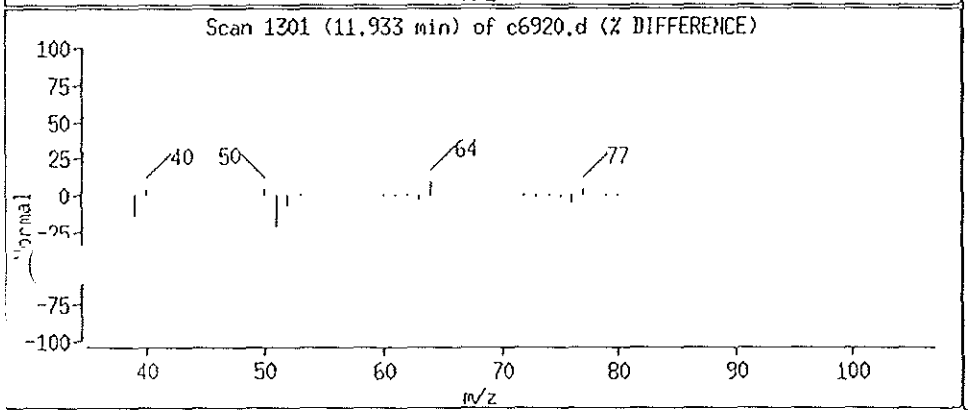
0023

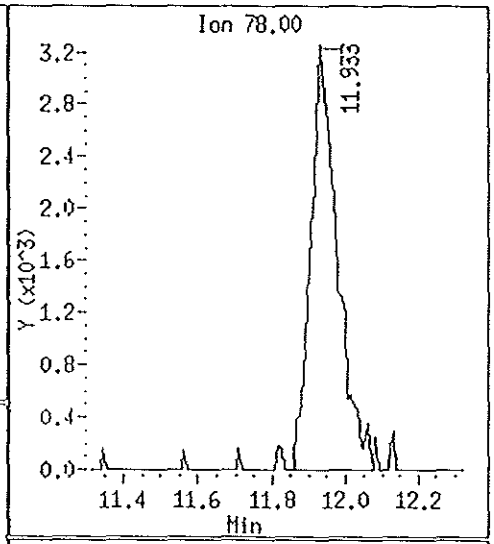
25 Benzene

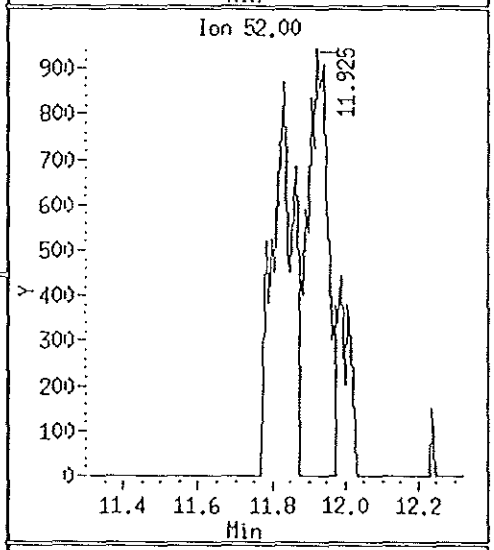


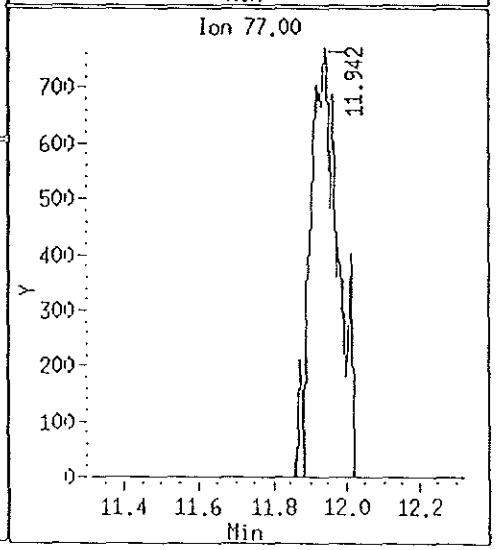












Data File: /chem/msc.i/c112095.b/c6920.d

Date : 20-NOV-95 17:55

Client ID: 17418n clj78t001

Sample Info: 17418n clj78tw001

Purge Volume: 1.0

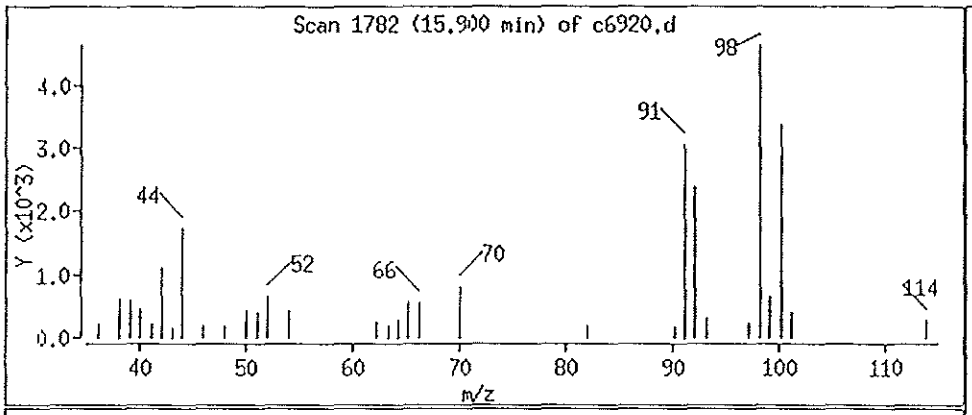
Column phase: J&W DB_624

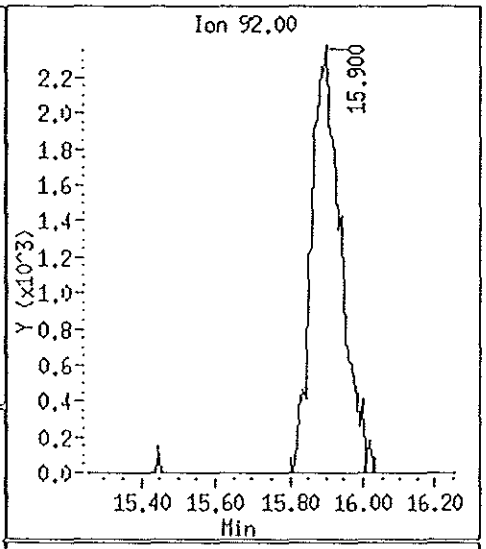
Instrument: msc.i

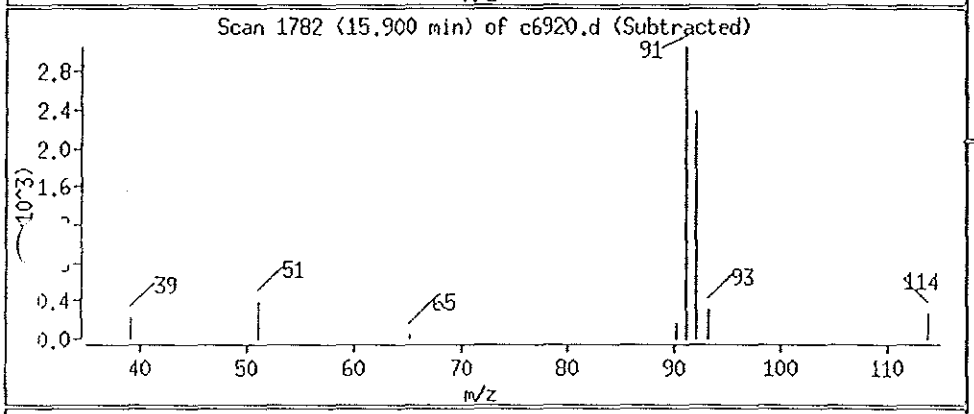
Operator: jk

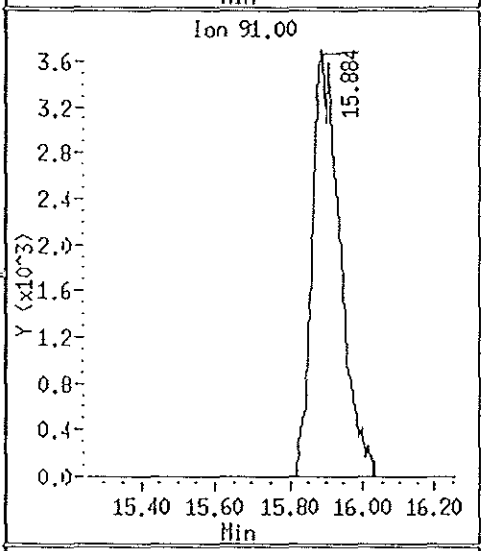
Column diameter: 0.53

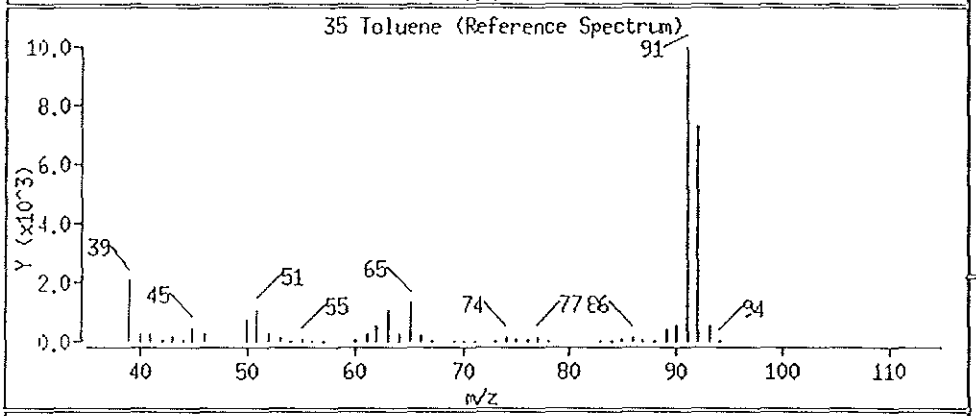
35 Toluene

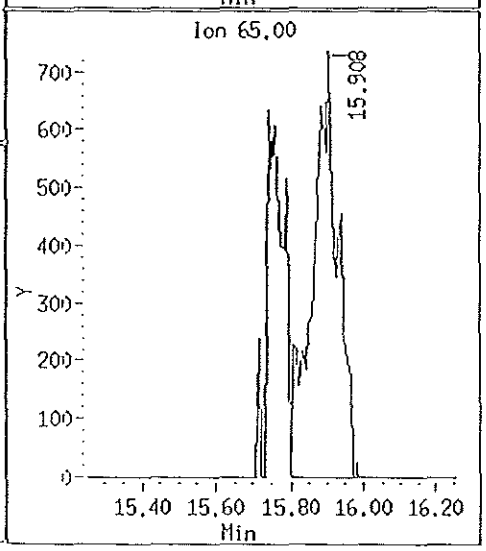


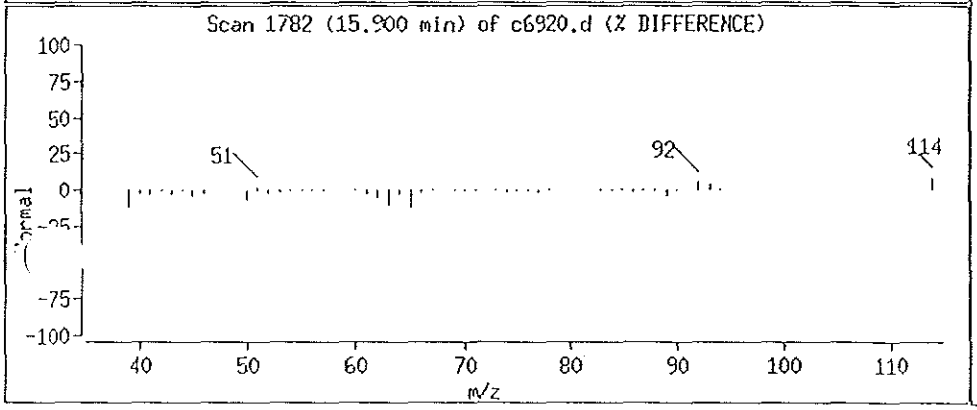












Data File: /chem/msc.i/c112095.b/c6920.d

Date : 20-NOV-95 17:55

`ient ID: 17418n clj78t001

Sample Info: 17418n clj78tw001

Purge Volume: 1.0

Column phase: J&W DB_624

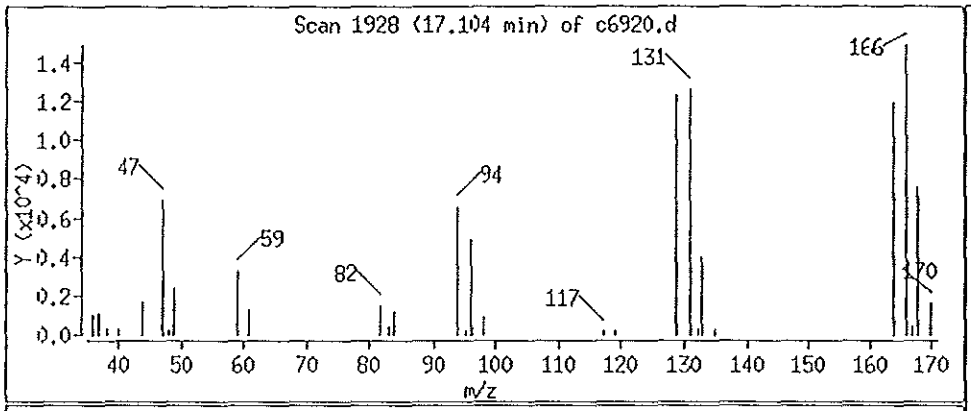
Instrument: msc.i

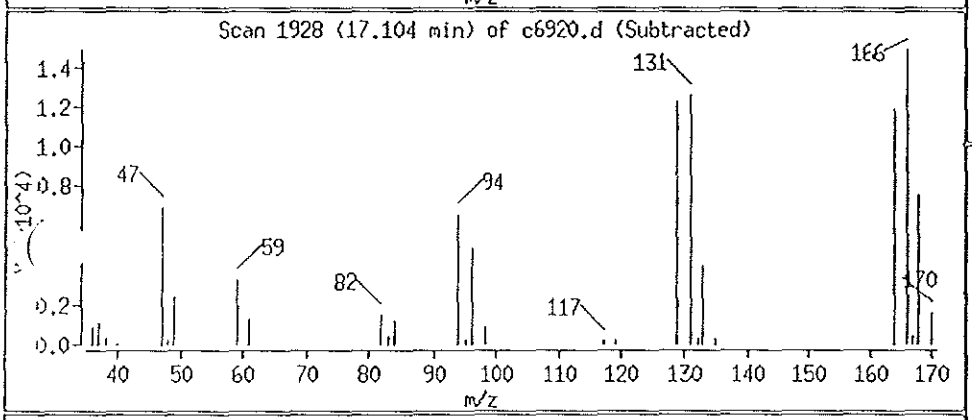
Operator: jk

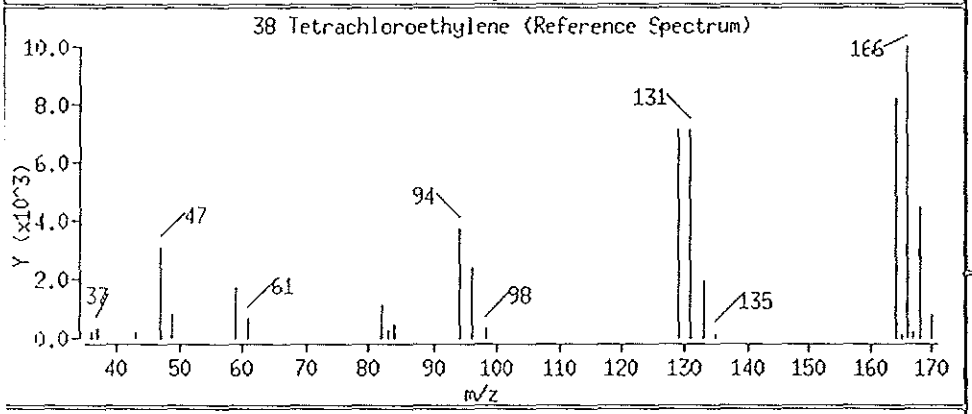
Column diameter: 0.53

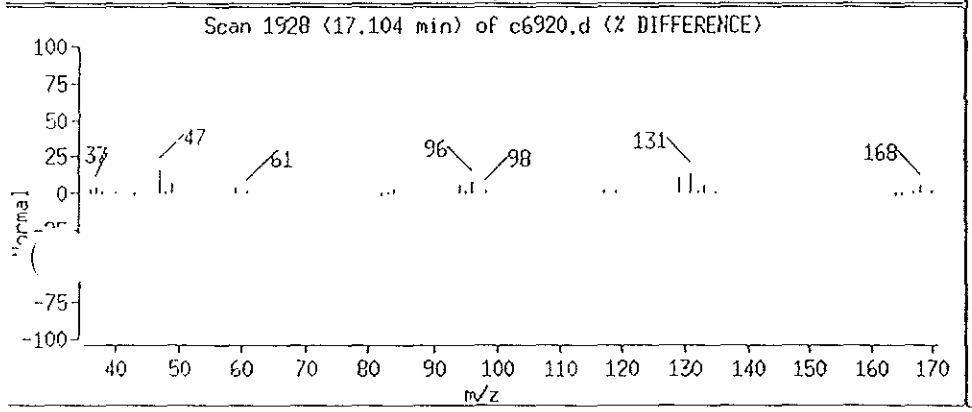
0025

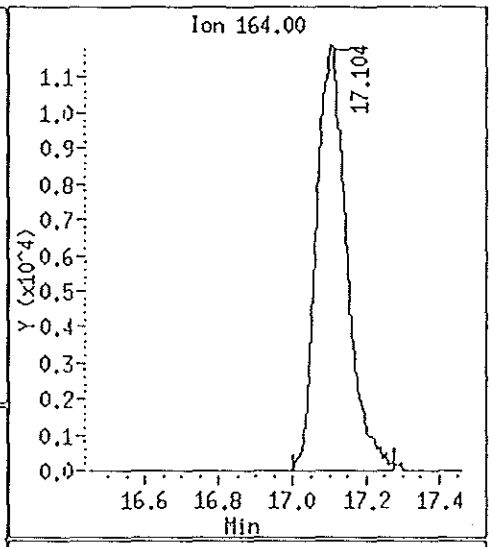
38 Tetrachloroethylene

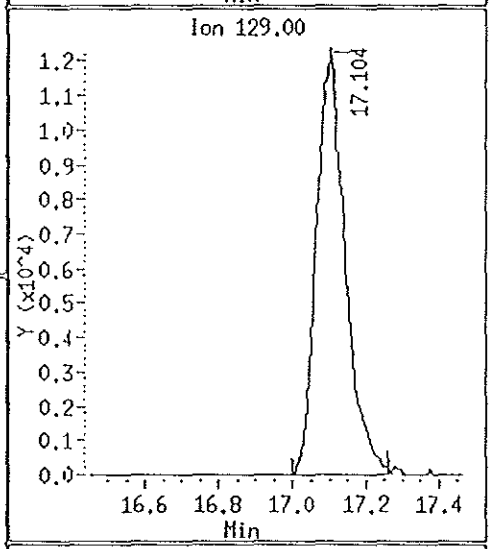


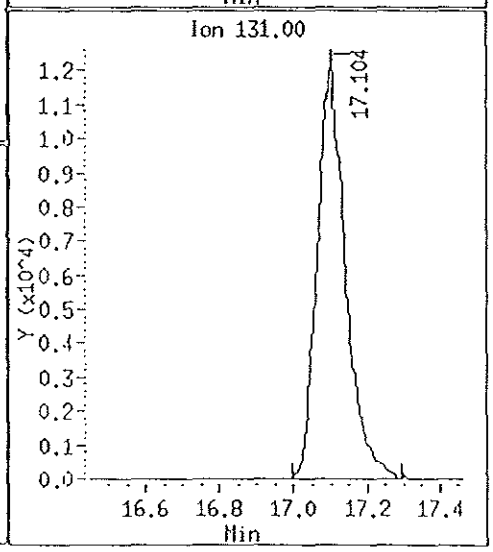












Data File: /chem/msc.i/c112095.b/c6920.d

Date : 20-NOV-95 17:55

Client ID: 17418n clj78t001

Instrument: msc.i

Sample Info: 17418n clj78tw001

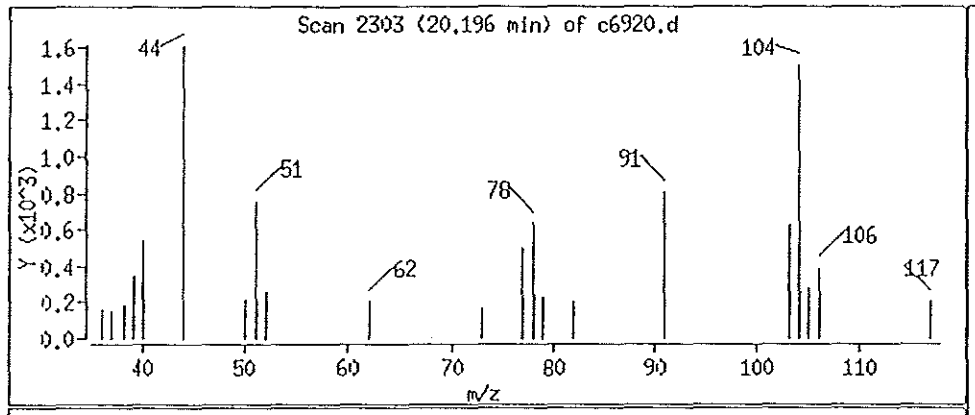
Purge Volume: 1.0

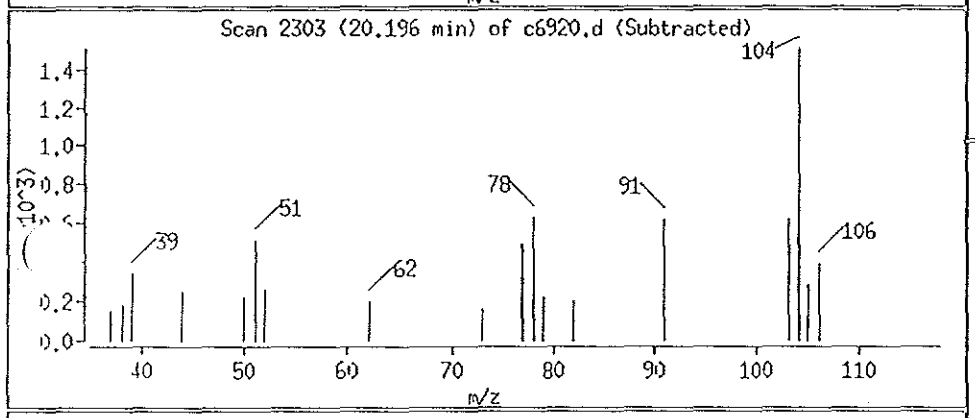
Operator: jk

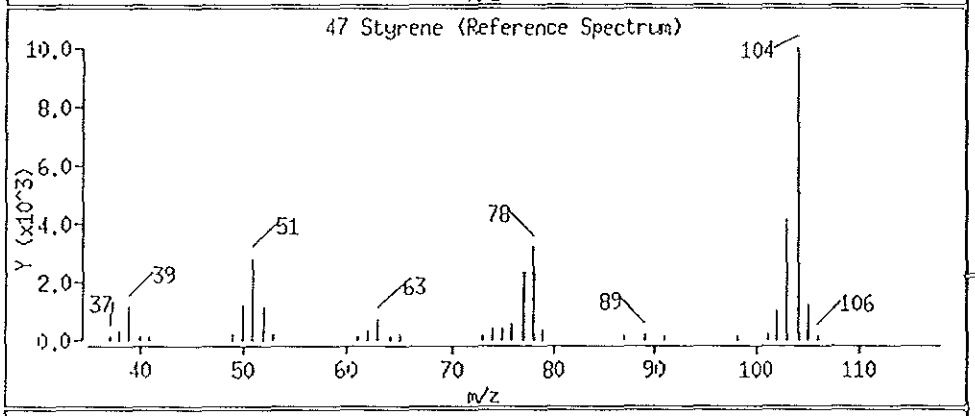
Column phase: J&W DB_624

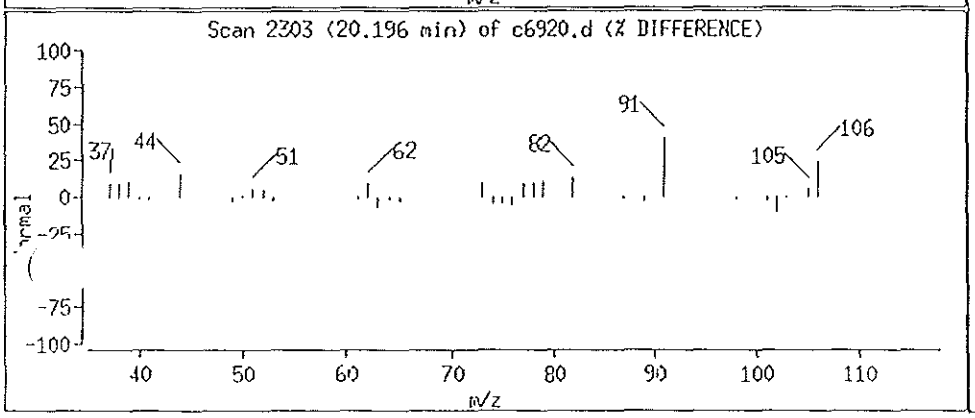
Column diameter: 0.53

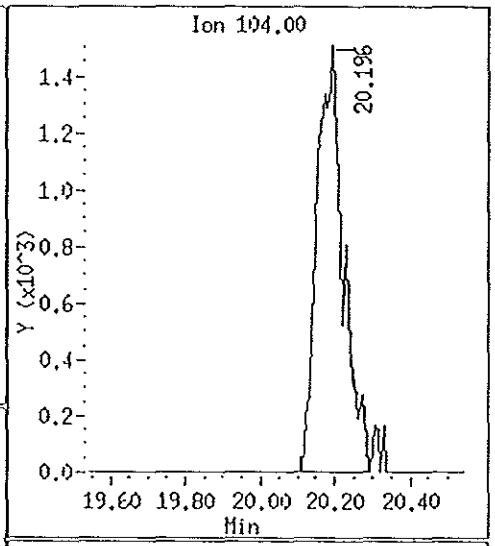
47 Styrene

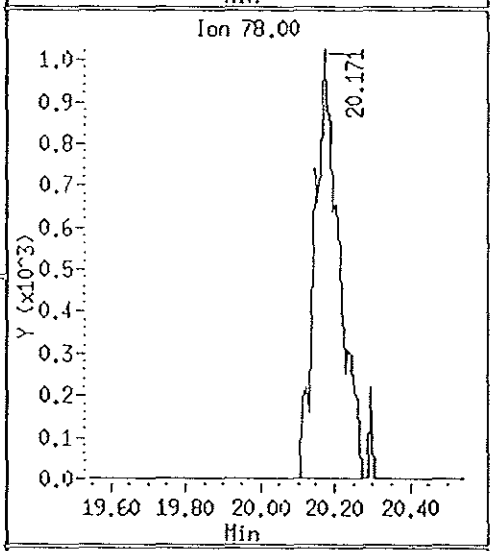


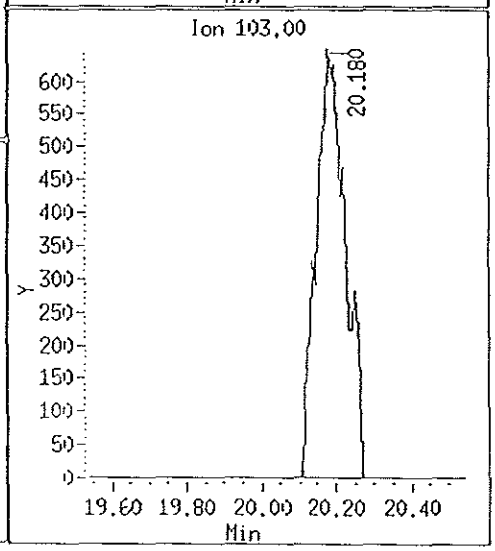












1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0027

CLJ78TW002

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Matrix: (soil/water) SOIL Lab Sample ID: JP0320V

Sample wt/vol: 5.14 (g/mL) G Lab File ID: C6917

Level: (low/med) LOW Date Received: 11/14/95

% Moisture: not dec. 19 Date Analyzed: 11/20/95

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ~~5000~~ N/A (uL) Soil Aliquot Volume: ~~5000~~ N/A (uL)

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

CAS NO.	COMPOUND		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	4	BJ
67-64-1	Acetone	61	
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	9	
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	6	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
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	BJ
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	.7	J
591-78-6	2-Hexanone	6	U
127-18-4	Tetrachloroethylene	55	B
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	.8	J
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	3	BJ

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS 0028

EPA SAMPLE NO.

CLJ78TW002

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Matrix: (soil/water) SOIL Lab Sample ID: JP0320V

Sample wt/vol: 5.14 (g/mL) G Lab File ID: C6917

Level: (low/med) LOW Date Received: 11/14/95

% Moisture: not dec. 19 Date Analyzed: 11/20/95

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ~~5000~~ N/A (uL) Soil Aliquot Volume: ~~5000~~ N/A (uL)

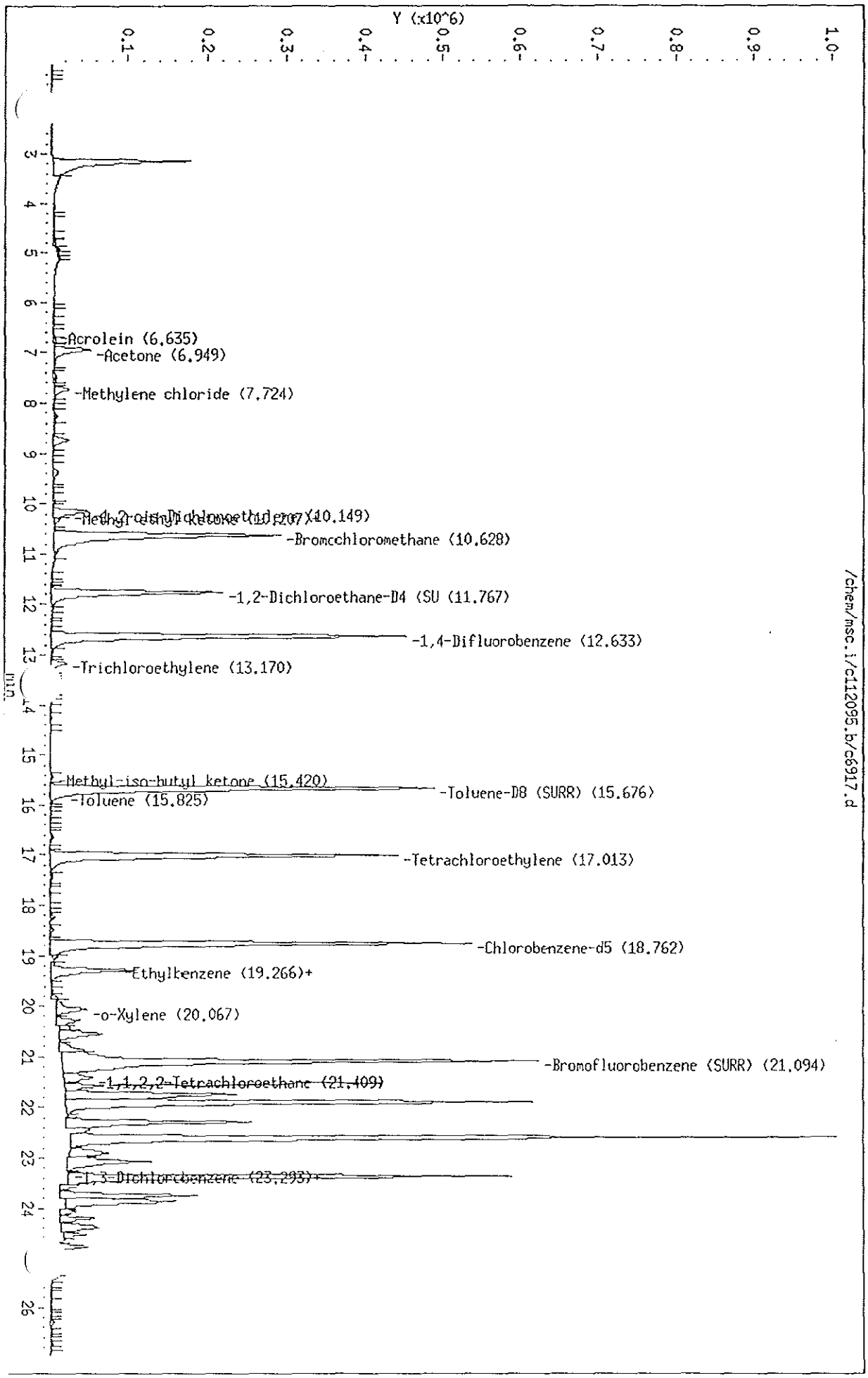
Number TICs found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 111-84-2	Nonane	19.29	14	JN
2.	Unk hydrocarbon	20.55	8	J
3. 611-14-3	1-ethyl-2-methyl-benzene iso	21.74	26	JN
4. 108-67-8	Benzene, 1,3,5-trimethyl-	21.90	72	JN
5. 611-14-3	1-ethyl-2-methyl-benzene iso	22.29	26	JN
6. 95-36-3	1,2,4-Trimethylbenzene isome	22.60	99	JN
7. 535-77-3	Benzene, 1-methyl-3-(1-methy	23.08	15	JN
8. 95-36-3	1,2,4-Trimethylbenzene isome	23.38	56	JN
9.	Unk substituted aromatic	23.75	18	J
10. 99-87-6	Benzene, 1-methyl-4-(1-methy	23.86	18	JN

Data File: /chem/msc.i/c112095.b/c6917.d
Date : 20-NOV-95 15:14
Client ID: 17418n clj78tw00X
Sample Info: 17418n clj78tw00X
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i
Operator: jk
Column diameter: 0.53



OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240 + Screen

Data file : /chem/msc.i/c112095.b/c6917.d
Lab Smp Id: Client Smp ID: 17418n clj78tw001
Inj Date : 20-NOV-95 15:14
Operator : jk 2 12-4-95 NS Inst ID: msc.i
Smp Info : 17418n clj78tw001
Misc Info : jp0320v,n2v4794,m2,5000,1,5.14,5.0,951120, MK 11/21/95
Comment :
Method : /chem/msc.i/c112095.b/110295_8240heatc.m
Meth Date : 20-Nov-1995 16:33 glenn Quant Type: ISTD
Cal Date : 20-NOV-95 08:08 Cal File: c6908.d
Als bottle: 10
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
crolein	56.00	6.635	6.583	(0.624)	2934	2.14	2.14(Q)
10 Acetone	43.00	6.949	6.965	(0.654)	208982	50.9	50.9
12 Methylene chloride	84.00	7.724	7.659	(0.727)	21453	3.40	3.40
17 1,2-cis-Dichloroethylene	96.00	10.149	10.097	(0.955)	46852	7.41	7.41
18 Methyl ethyl ketone	72.00	10.207	10.205	(0.808)	3052	2.37	~~2.37(Q)~~ MC
19 Ethyl acetate	43.00	10.215	10.287	(0.961)	22404	0.598	~~0.598(aQ)~~ NS
* 20 Bromochloromethane	128.00	10.628	10.577	(1.000)	206573	50.0	
$ 24 1,2-Dichloroethane-D4 (SURR)	65.00	11.767	11.711	(1.107)	413205	46.6	46.6
* 27 1,4-Difluorobenzene	114.00	12.633	12.571	(1.000)	928670	50.0	
28 Trichloroethylene	130.00	13.170	13.117	(1.042)	18465	2.48	2.48
33 Methyl-iso-butyl ketone	43.00	15.420	15.383	(0.822)	10543	0.606	0.606(aQ)
$ 34 Toluene-D8 (SURR)	98.00	15.676	15.623	(0.836)	859938	49.8	49.8
35 Toluene	92.00	15.825	15.756	(0.843)	8205	0.662	0.662(aQ)
38 Tetrachloroethylene	164.00	17.013	16.956	(0.907)	308053	46.1	46.1
* 42 Chlorobenzene-d5	117.00	18.762	18.710	(1.000)	729236	50.0	
44 Ethylbenzene	106.00	19.266	18.976	(1.027)	7872	1.09	~~1.09~~ NS
45 m+p-Xylenes	106.00	19.266	19.224	(1.027)	7872	0.877	~~0.877(a)~~ NS
46 o-Xylene	106.00	20.059	20.027	(1.069)	22989	2.60	2.60
$ 49 Bromofluorobenzene (SURR)	95.00	21.094	21.053	(1.124)	645609	48.6	48.6
50 1,1,2,2-Tetrachloroethane	83.00	21.401	21.319	(1.141)	11114	0.660	~~0.660(aQ)~~ NS
51 1,3-Dichlorobenzene	146.00	23.293	23.105	(1.241)	7754	0.572	0.572(aQ)
52 1,4-Dichlorobenzene	146.00	23.293	23.255	(1.241)	7754	0.507	0.507(aQ)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

0031

Data File: /chem/msc.i/c112095.b/c6917.d

Date : 20-NOV-95 15:14

Client ID: 17418n clj78tw001 12-4-95 KB

Sample Info: 17418n clj78tw001

Purge Volume: 1.0

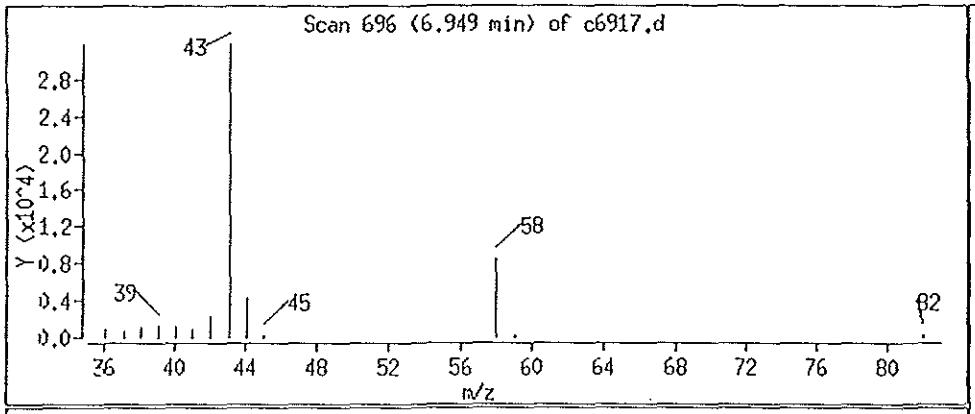
Column phase: J&W DB_624

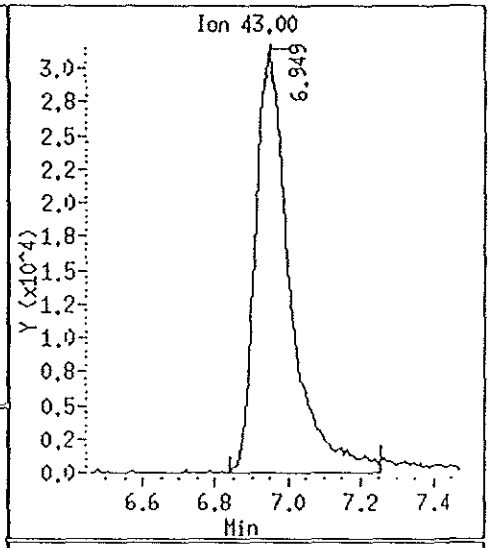
Instrument: msc.i

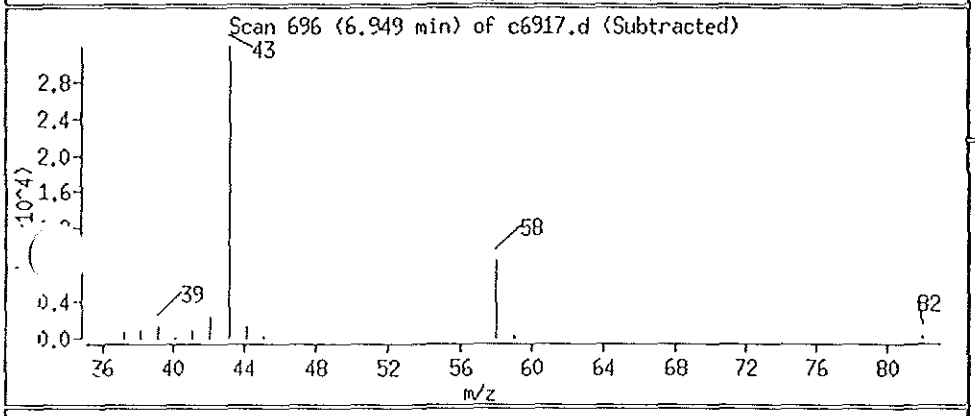
Operator: jk

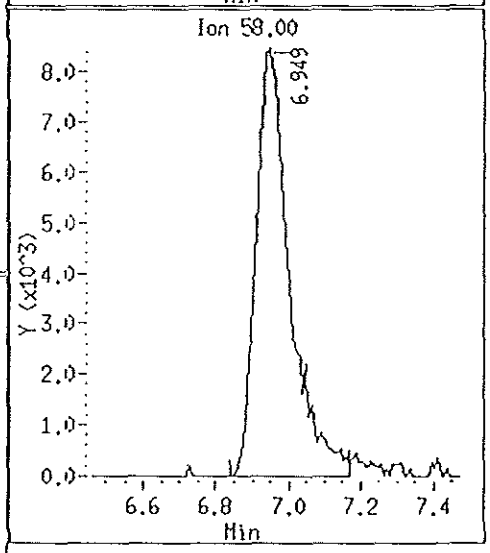
Column diameter: 0.53

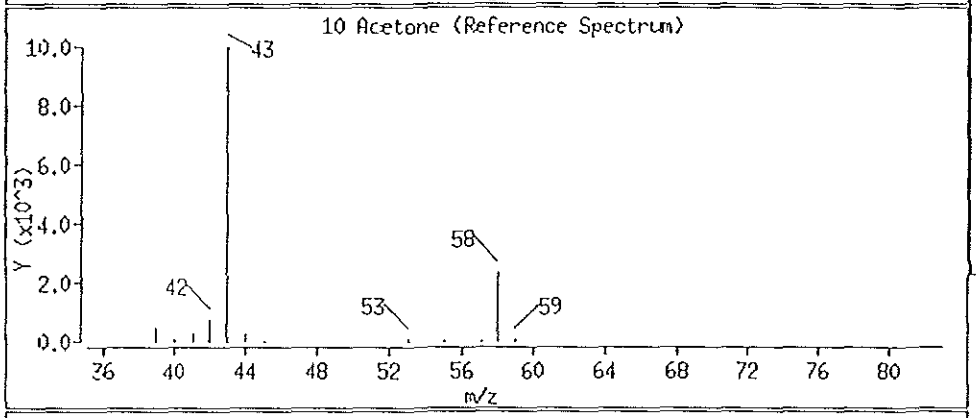
10 Acetone

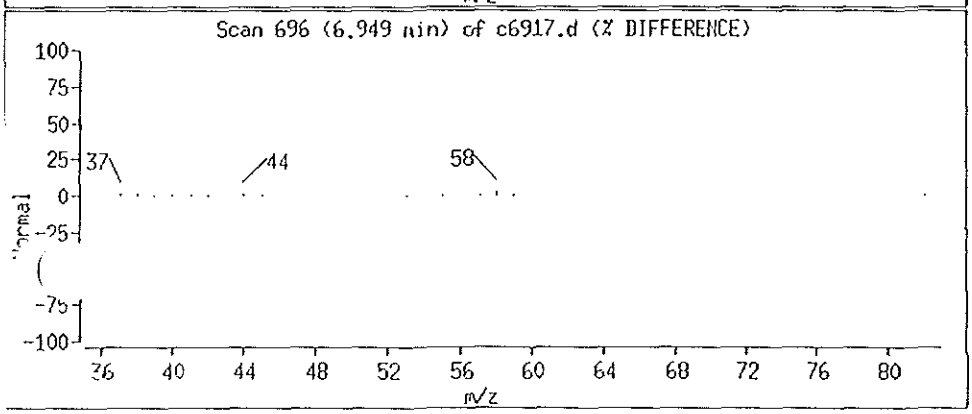












0032

Data File: /chem/msc.i/c112095.b/c6917.d

Date : 20-NOV-95 15:14

Client ID: 17418n clj78tw00X 12-4-95 KB

Sample Info: 17418n clj78tw00X

Purge Volume: 1.0

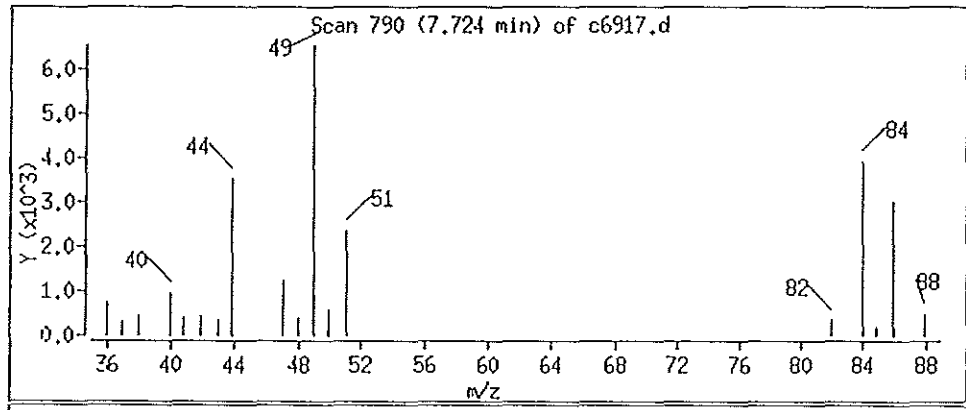
Column phase: J&W DB_624

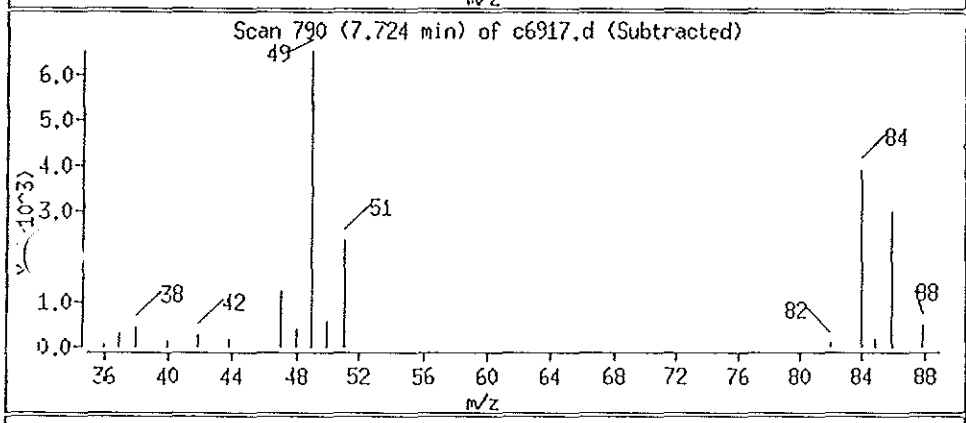
Instrument: msc.i

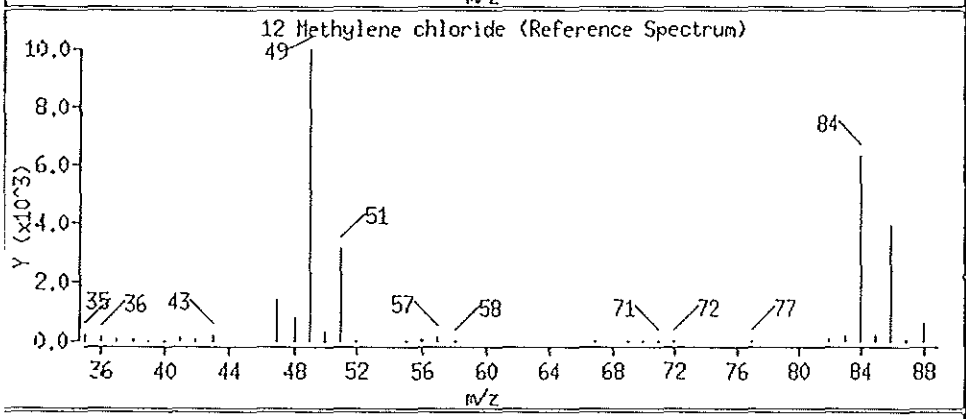
Operator: jk

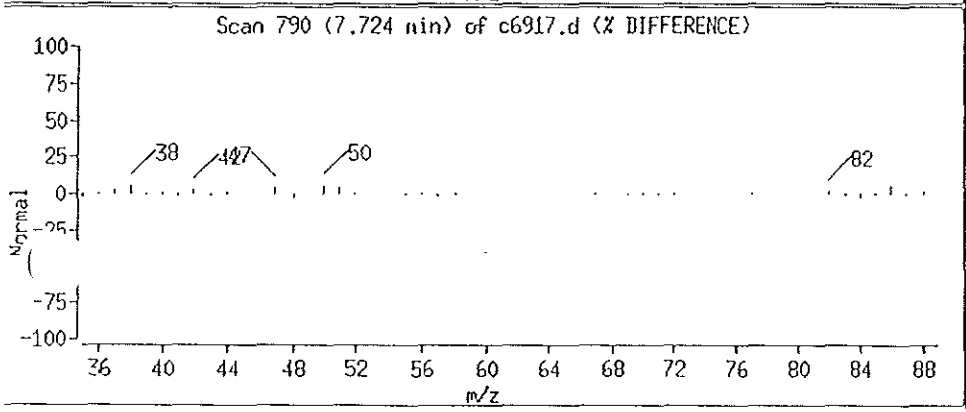
Column diameter: 0.53

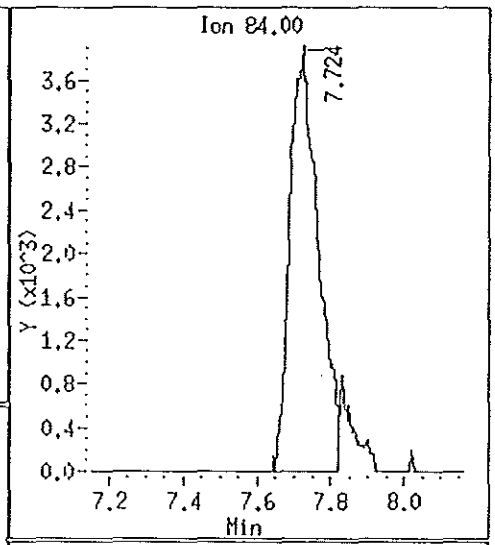
12 Methylene chloride

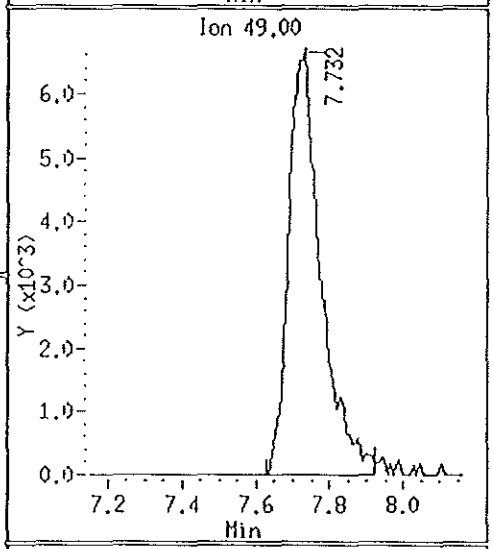


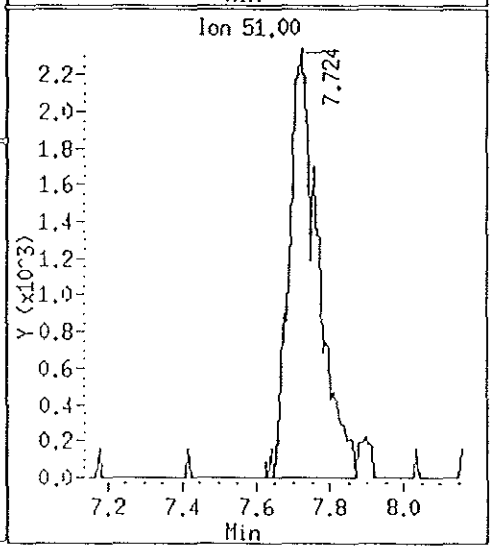












Data File: /chem/msc.i/c112095.b/c6917.d

Date : 20-NOV-95 15:14

Client ID: 17418n clj78tw001 2

Sample Info: 17418n clj78tw001 2 12-4-95 KO

Purge Volume: 1.0

Column phase: J&W DB_624

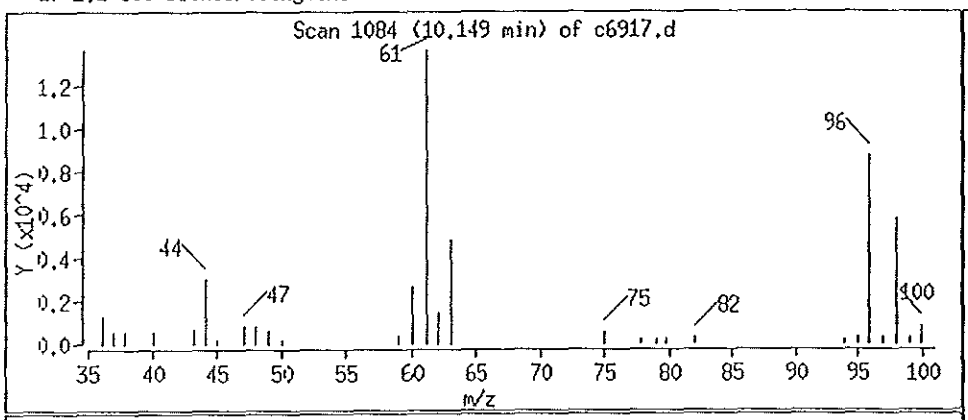
Instrument: msc.i

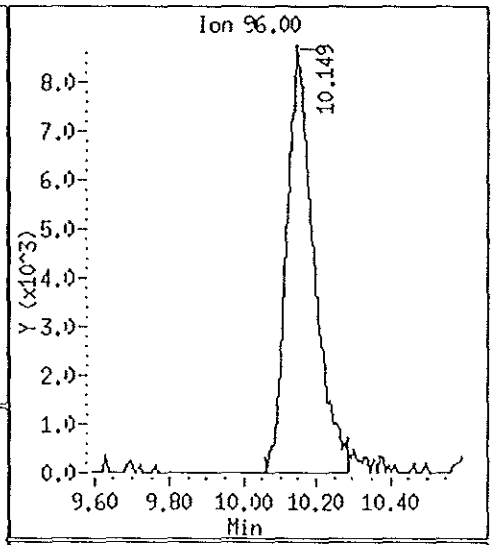
Operator: jk

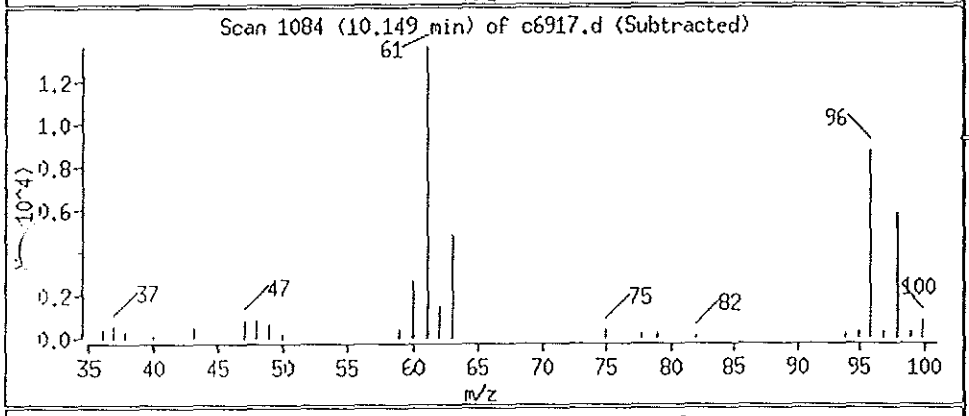
Column diameter: 0.53

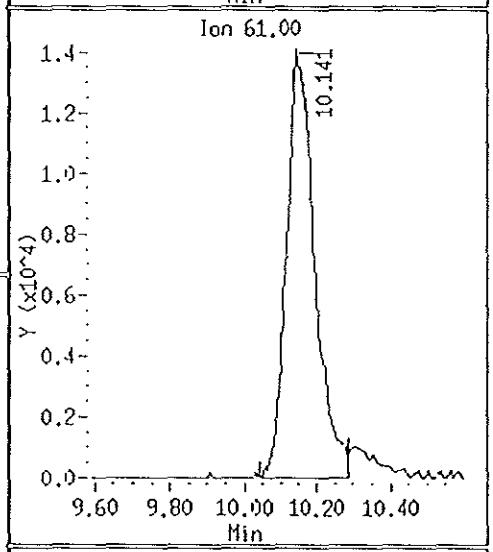
0033

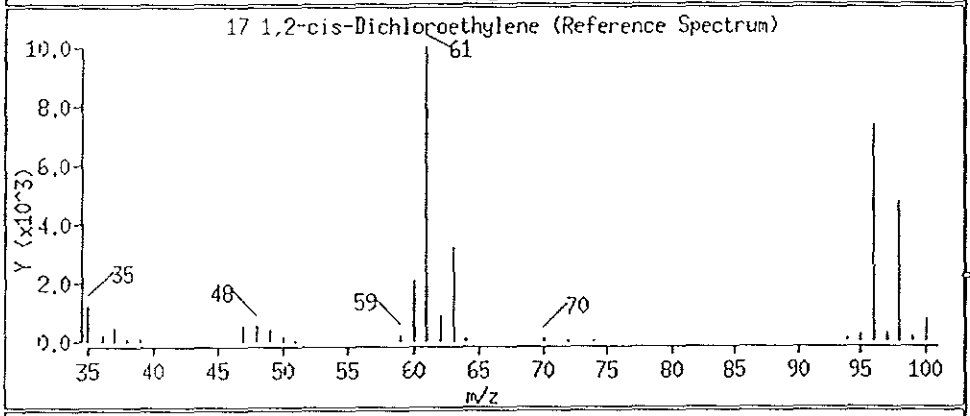
17 1,2-cis-Dichloroethylene

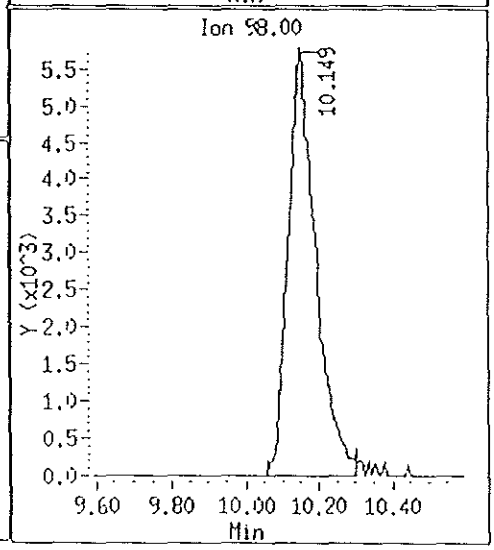


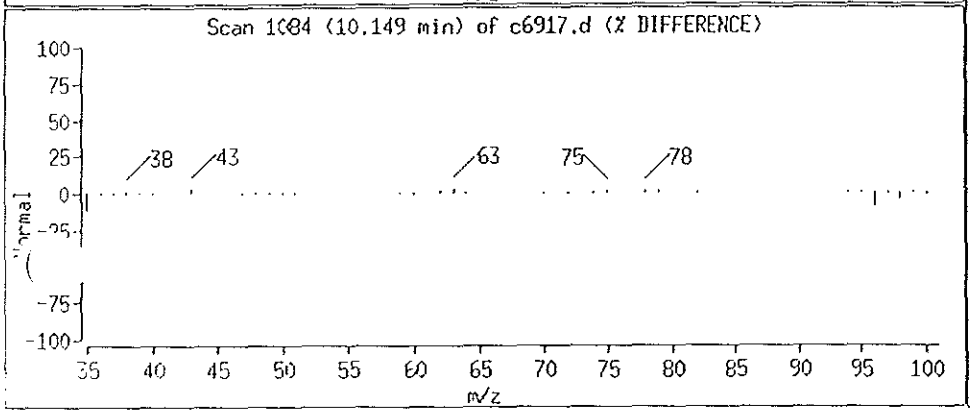












Data File: /chem/msc.i/c112095.b/c6917.d

Date : 20-NOV-95 15:14

Client ID: 17418n clj78tw001 12-4-95 KB

Sample Info: 17418n clj78tw001

Purge Volume: 1.0

Column phase: J&W DB_624

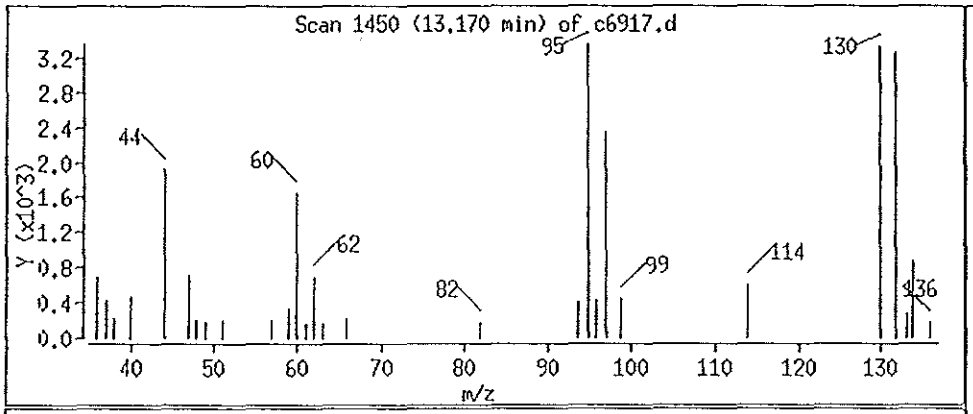
Instrument: msc.i

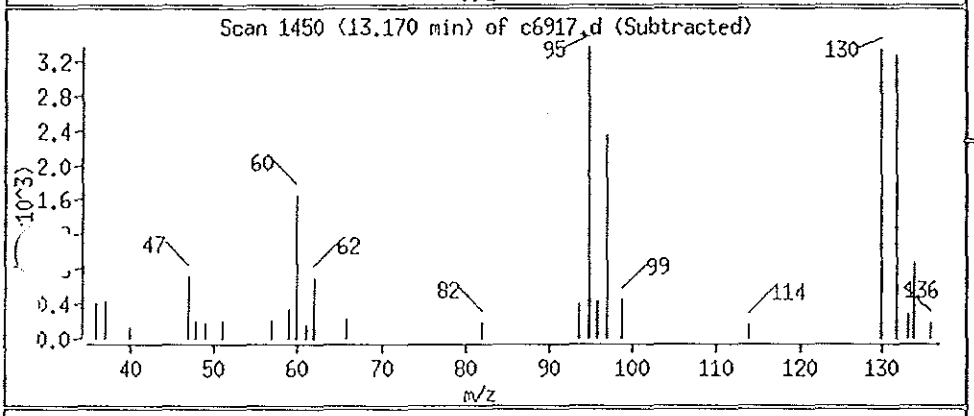
Operator: jk

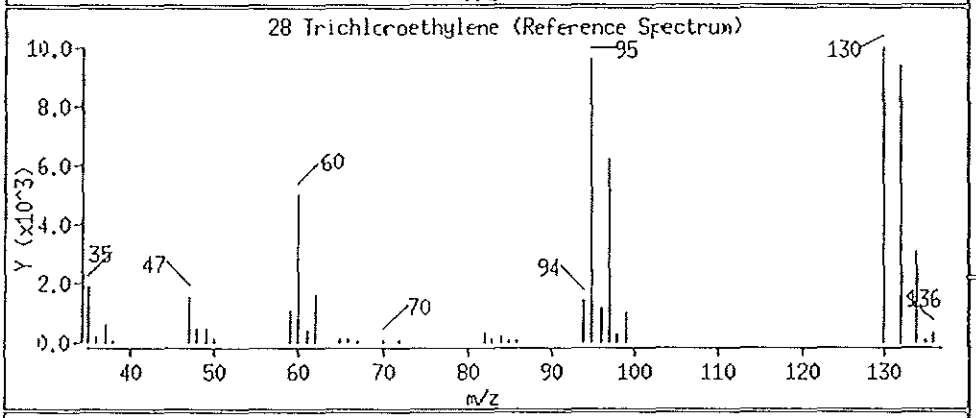
Column diameter: 0.53

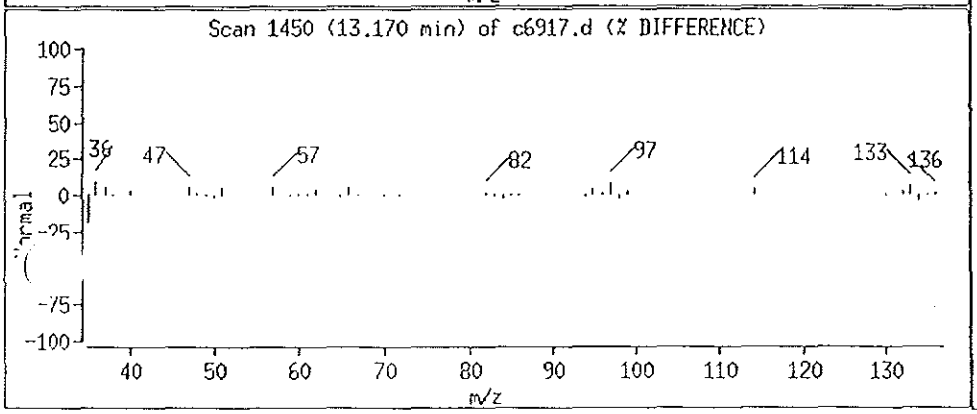
0034

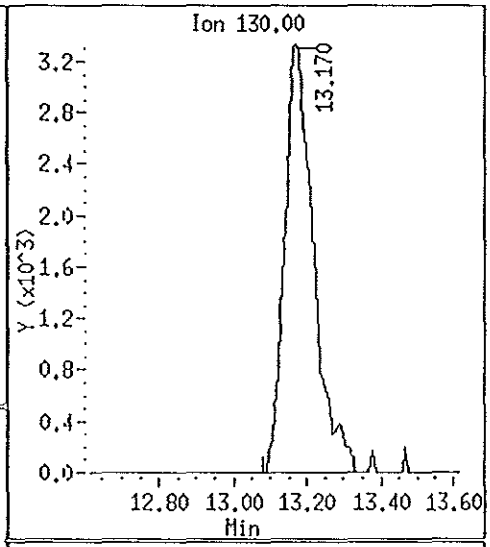
28 Trichloroethylene

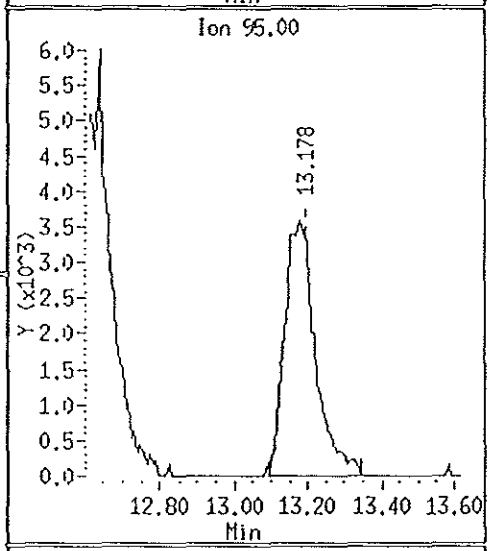


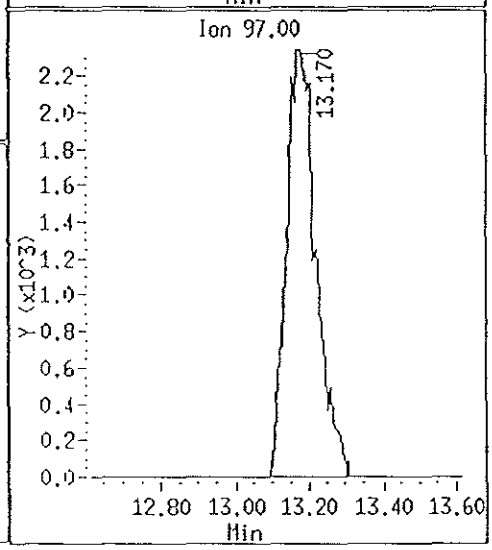












Data File: /chem/msc.i/c112095.b/c6917.d

Date : 20-NOV-95 15:14

Client ID: 17418n clj78tw001 2

Sample Info: 17418n clj78tw001 2

12-4-95 KB

Instrument: msc.i

0035

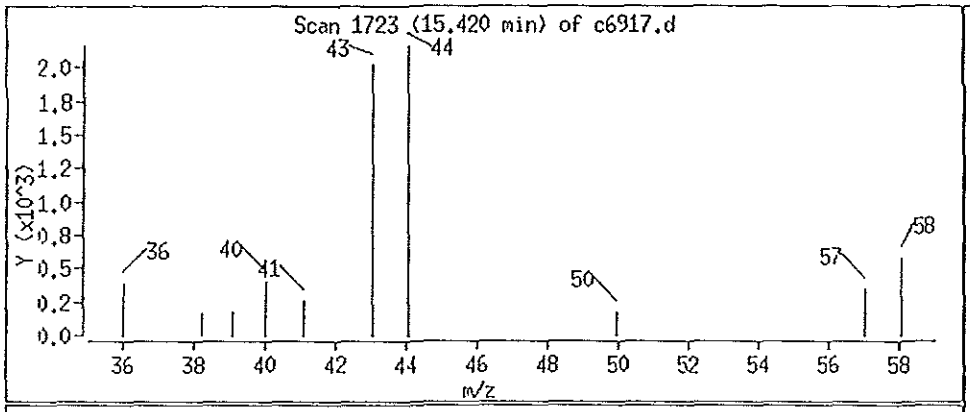
Purge Volume: 1.0

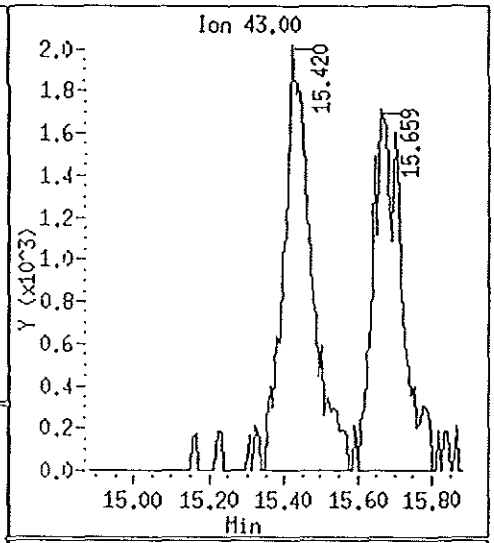
Operator: jk

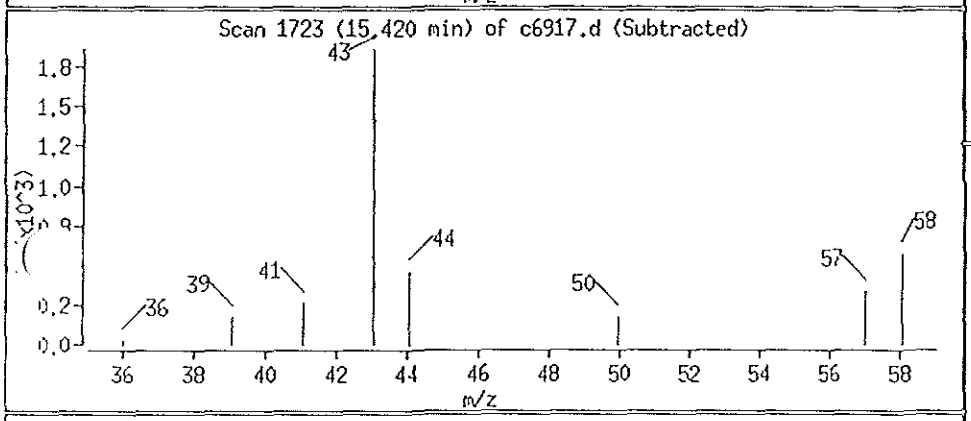
Column phase: J&W DB_624

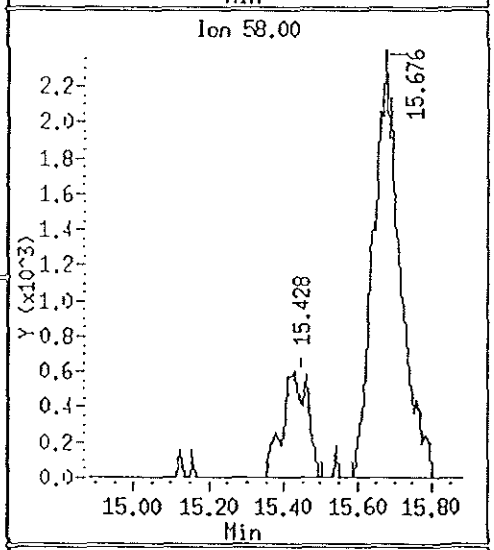
Column diameter: 0.53

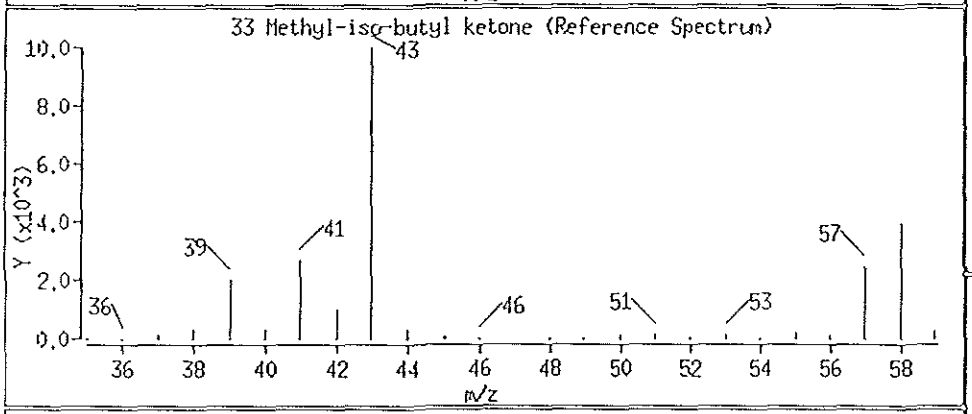
33 Methyl-iso-butyl ketone

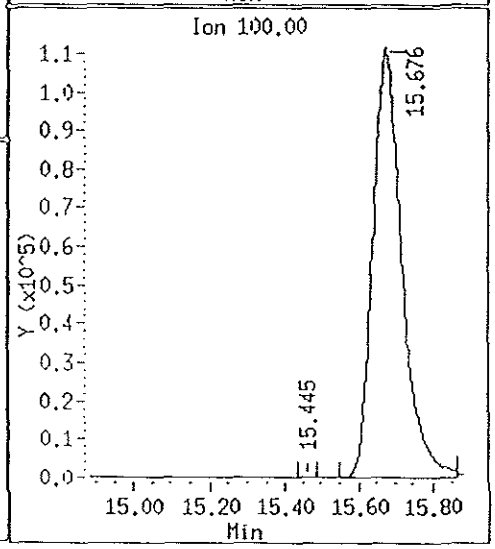


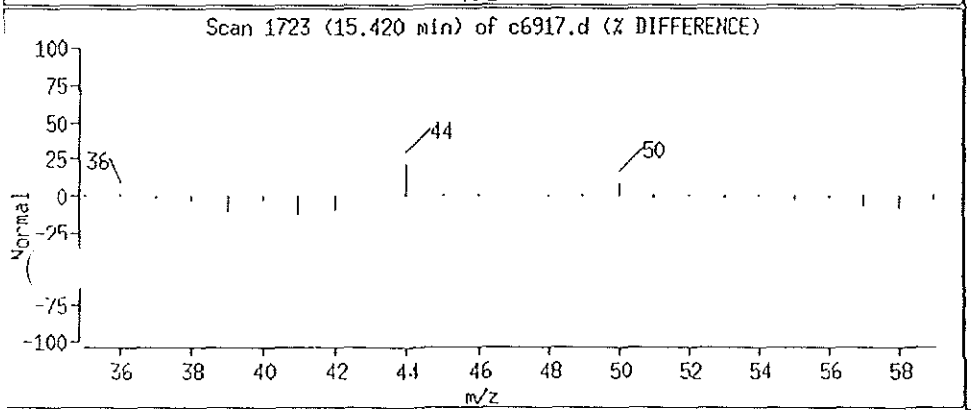












0036

Data File: /chem/msc.i/c112095.b/c6917.d

Date : 20-NOV-95 15:14

Client ID: 17418n clj78tw00[illegible]

ample Info: 17418n clj78tw00[illegible] 12-4-95 KB

Instrument: msc.i

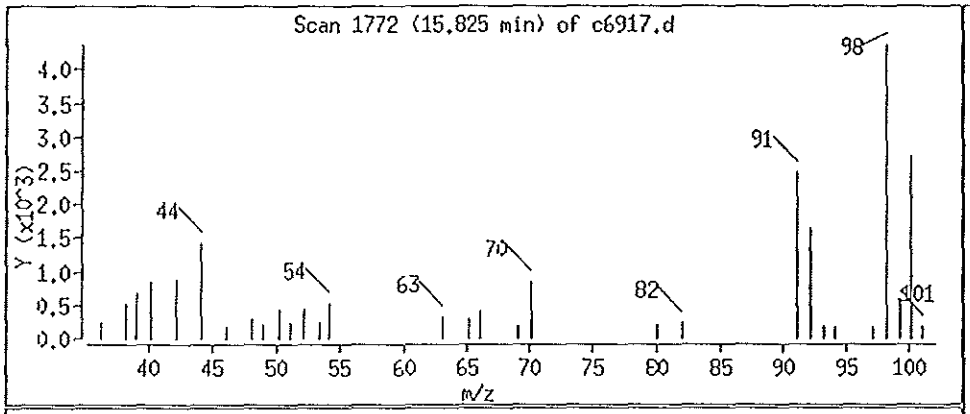
Purge Volume: 1.0

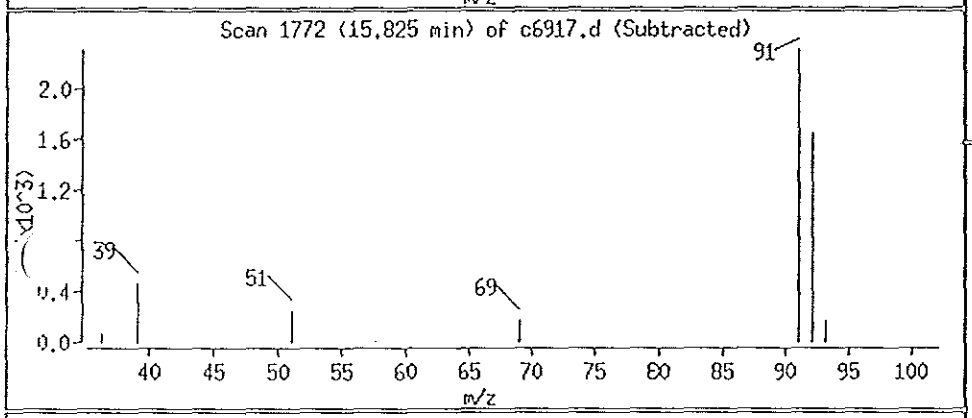
Operator: jk

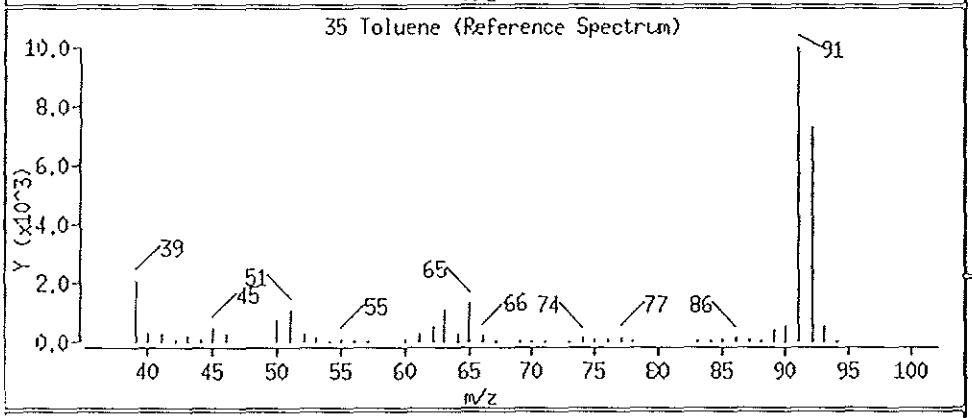
Column phase: J&W DB_624

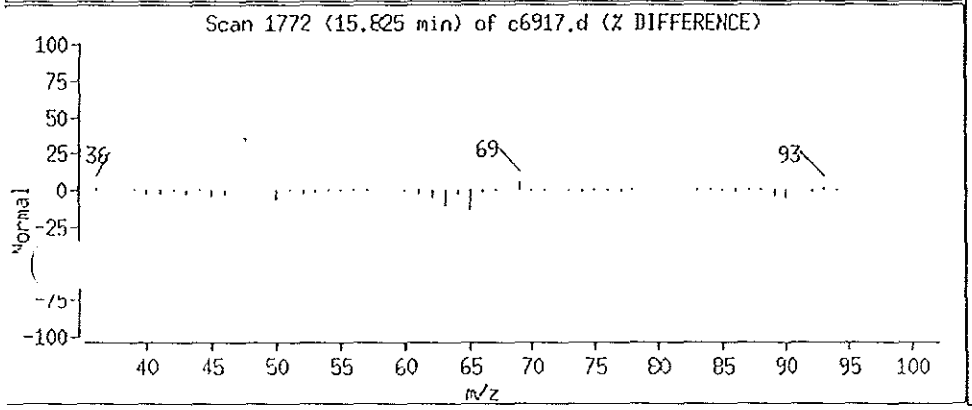
Column diameter: 0.53

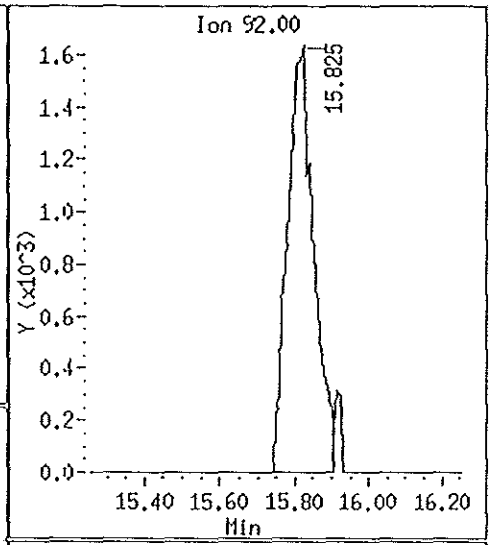
35 Toluene

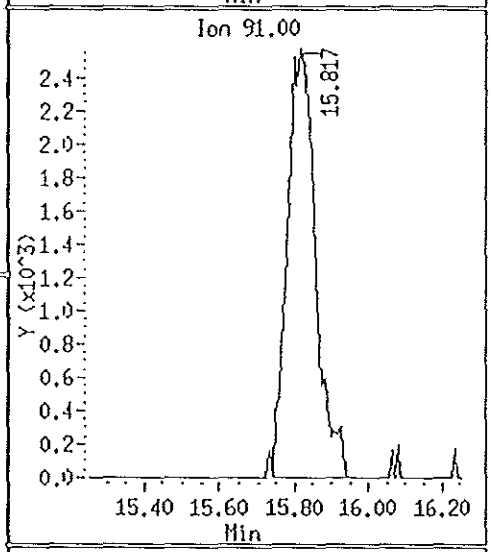


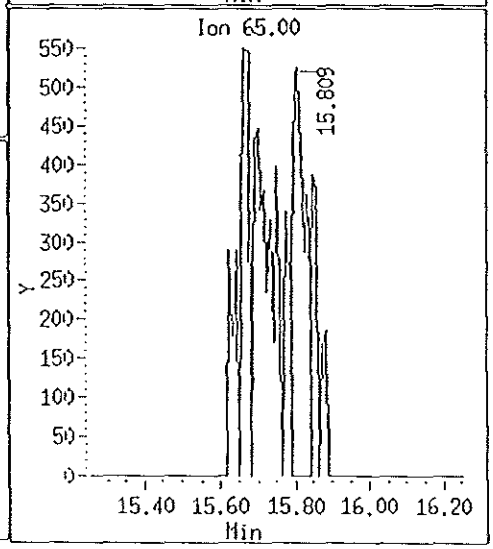












Data File: /chem/msc.i/c112095.b/c6917.d

Date : 20-NOV-95 15:14

Client ID: 17418n clj78tw001 2

Sample Info: 17418n clj78tw001 2 12-4-95 KB

Purge Volume: 1.0

Column phase: J&W DB_624

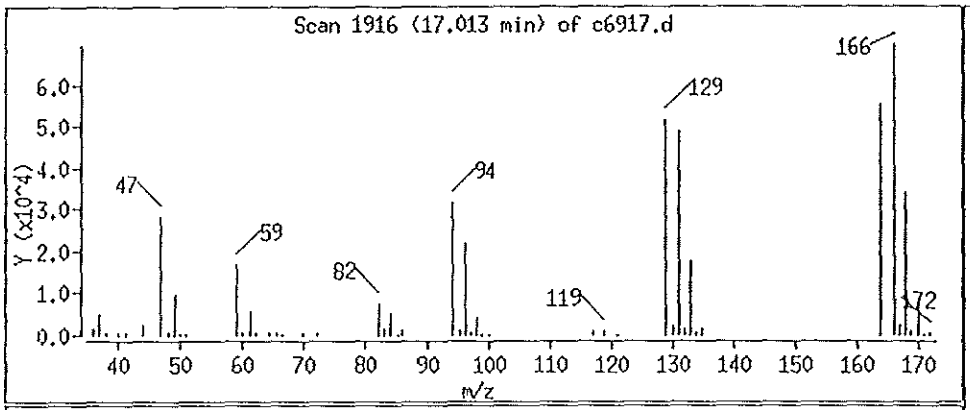
Instrument: msc.i

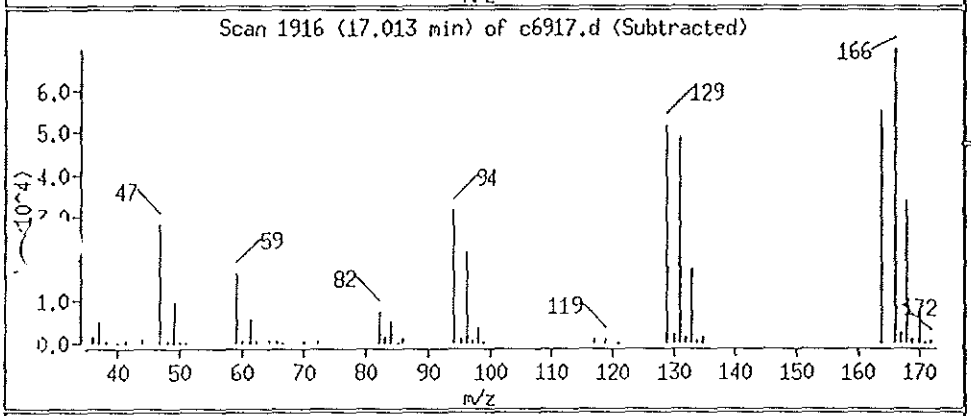
Operator: jk

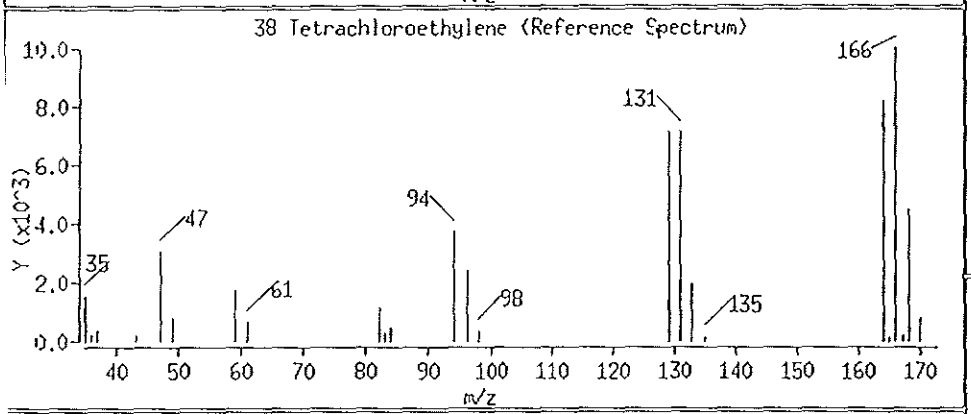
Column diameter: 0.53

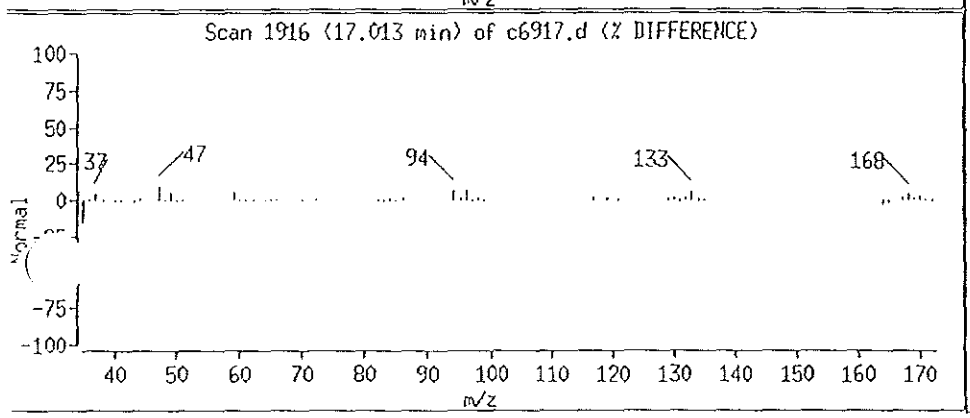
0037

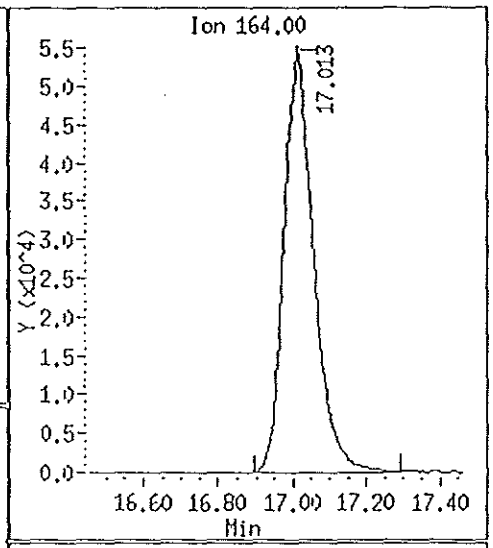
38 Tetrachloroethylene

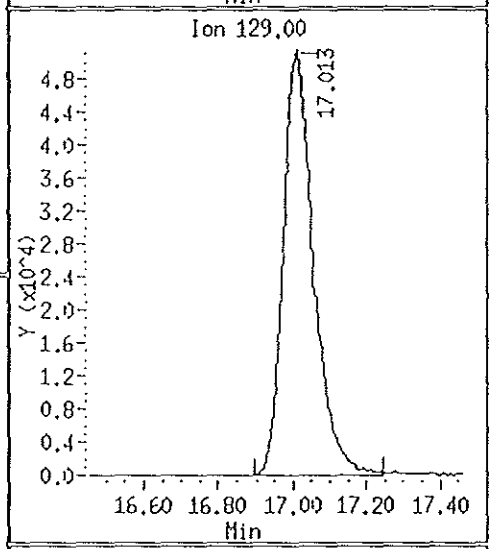


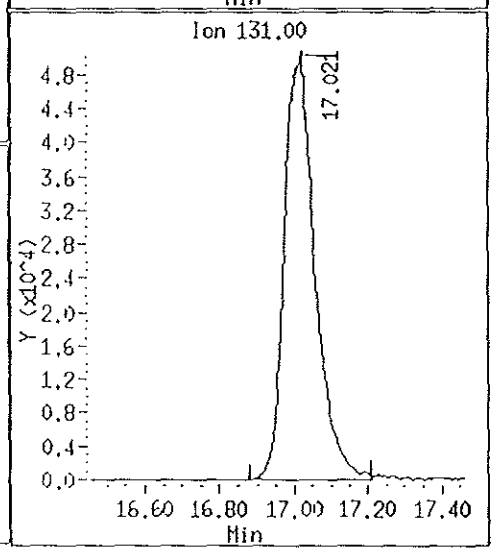












Data File: /chem/msc.i/c112095.b/c6917.d

Date : 20-NOV-95 15:14

Client ID: 17418n clj78tw00~~1~~ 2

Sample Info: 17418n clj78tw00~~1~~ 2 12-4-95 KB

Purge Volume: 1.0

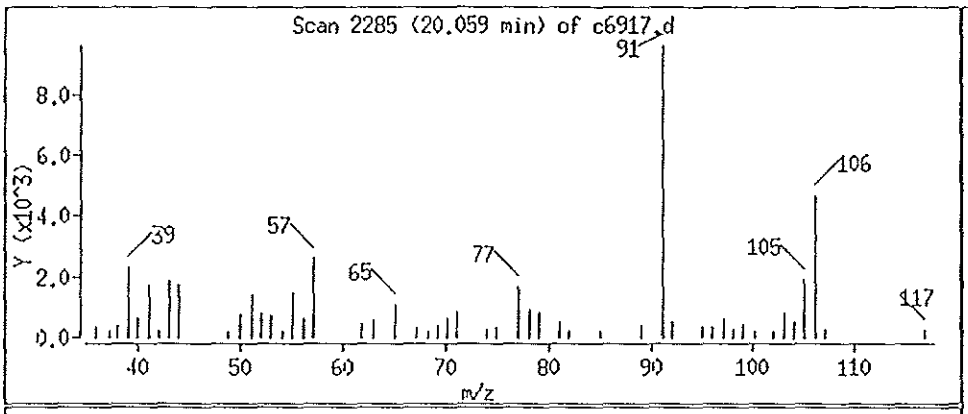
Column phase: J&W DB_624

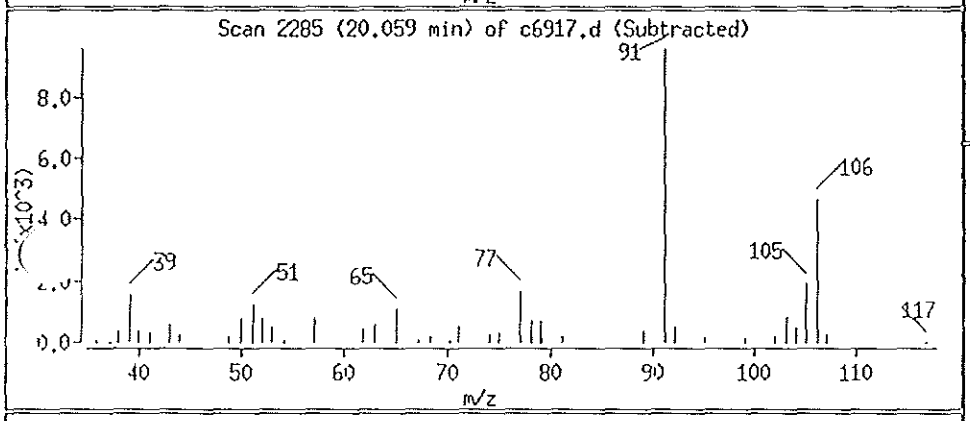
Instrument: msc.i

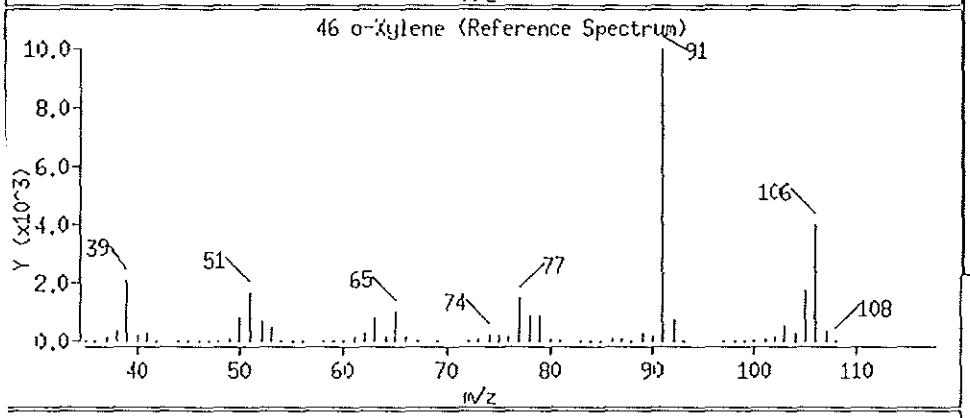
Operator: jk

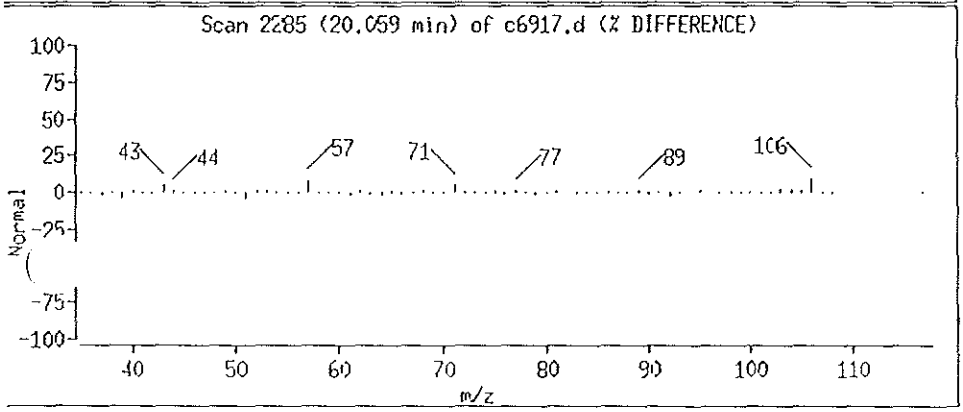
Column diameter: 0.53

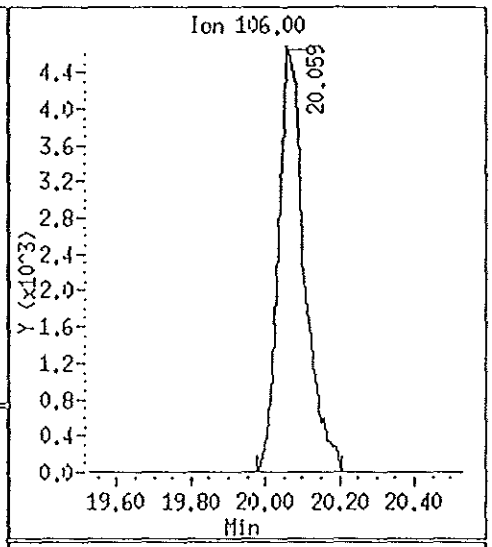
46 o-Xylene

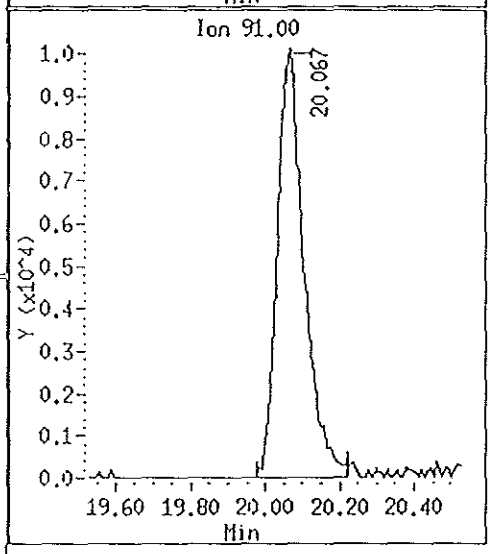












Data File: /chem/msc.i/c112095.b/c6917.d

Date : 20-NOV-95 15:14

Client ID: 17418n clj78tw001 12-4-95 KB

ample Info: 17418n clj78tw001

Instrument: msc.i

0039

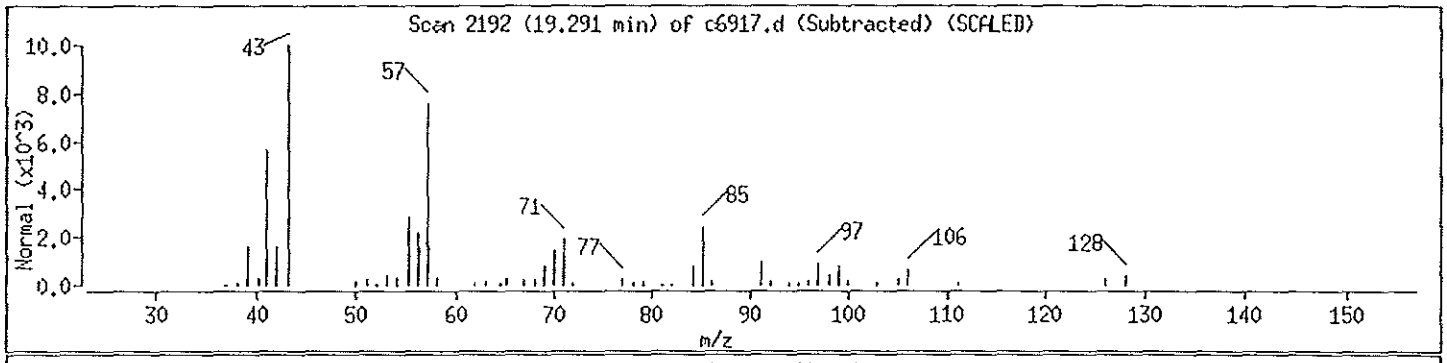
Purge Volume: 1.0

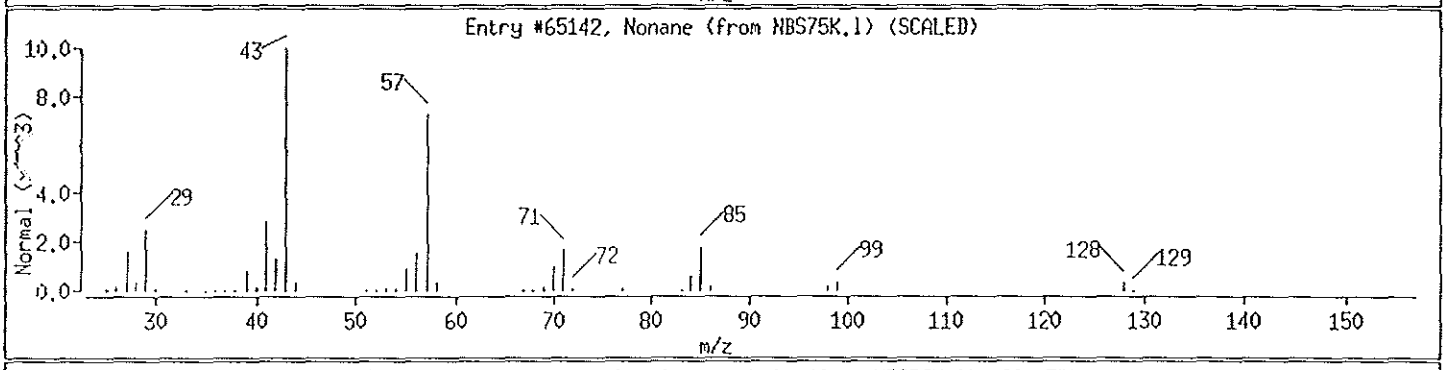
Operator: jk

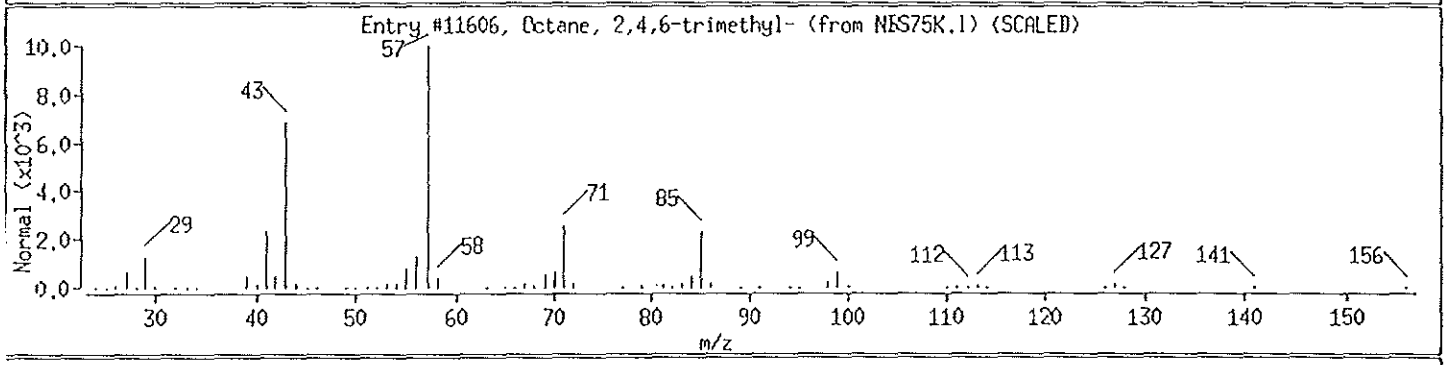
Column phase: J&W DB_624

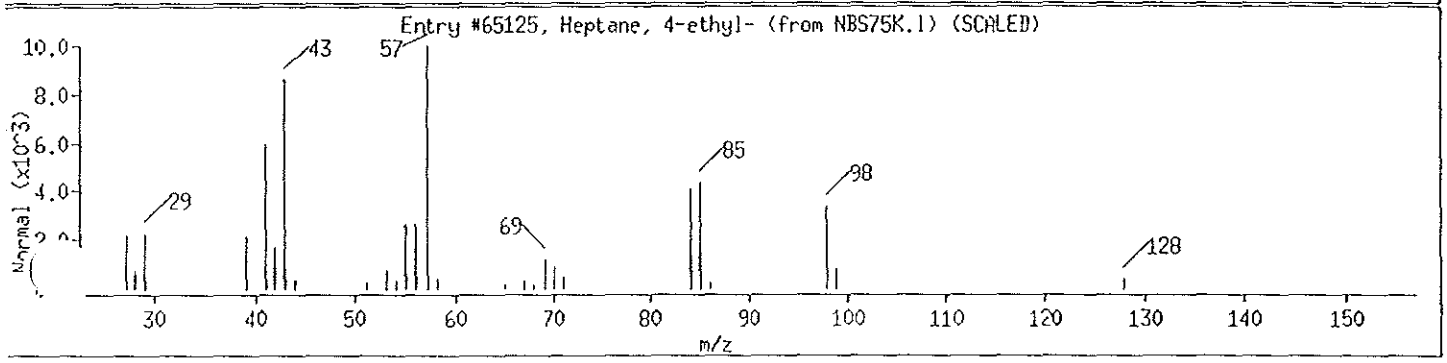
Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonane	111-84-2	NBS75K.l	65142	81	C9H20	128
Octane, 2,4,6-trimethyl-	62016-37-9	NBS75K.l	11606	53	C11H24	156
Heptane, 4-ethyl-	2216-32-2	NBS75K.l	65125	49	C9H20	128









Data File: /chem/msc.i/c112095.b/c6917.d

Date : 20-NOV-95 15:14

Client ID: 17418n clj78tw001 2

Sample Info: 17418n clj78tw001 2 12-4-95 KB

Purge Volume: 1.0

Column phase: J&W DB_624

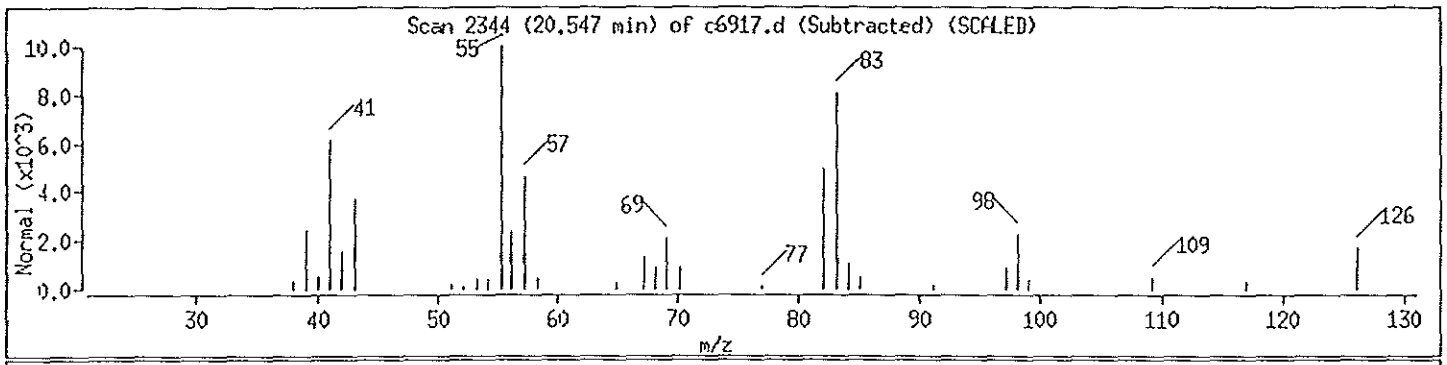
Instrument: msc.i

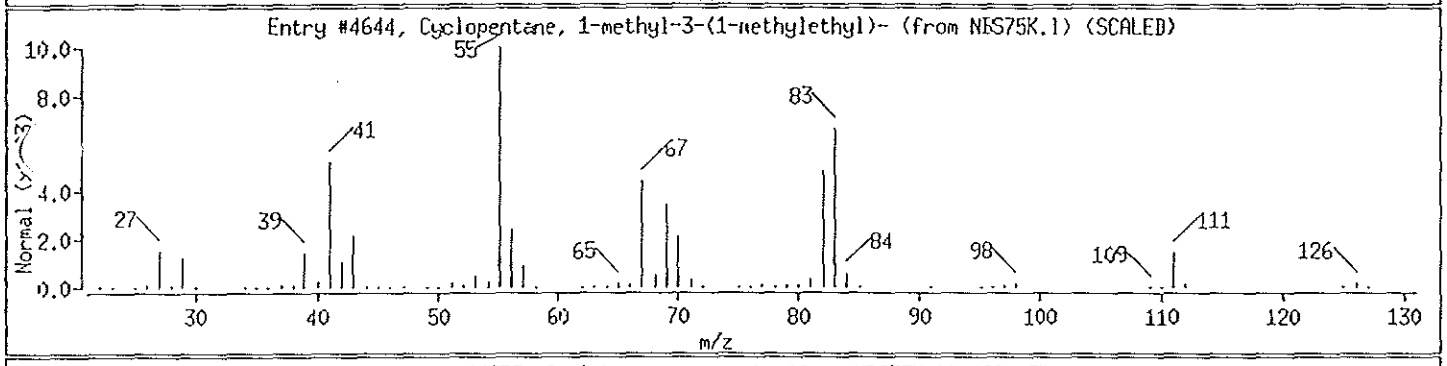
Operator: jk

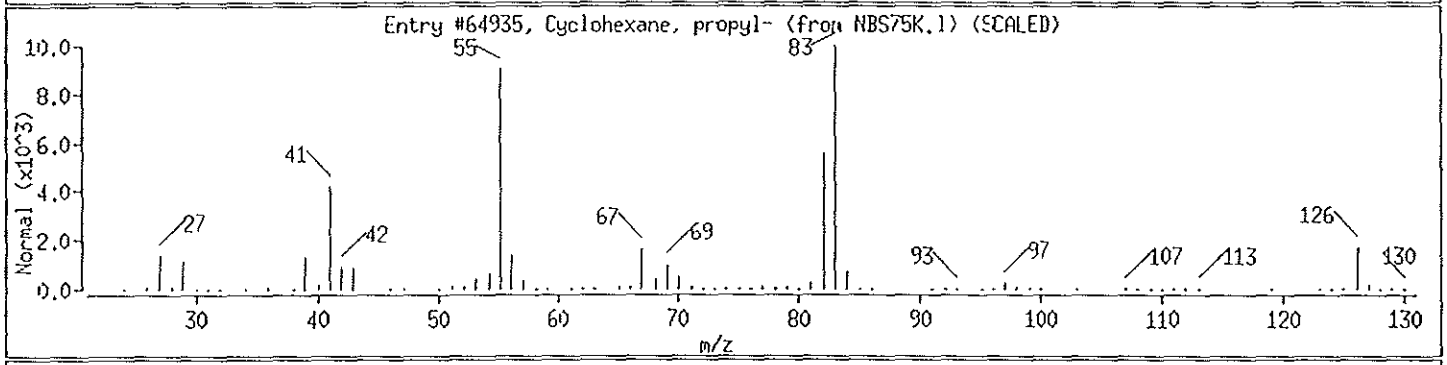
Column diameter: 0.53

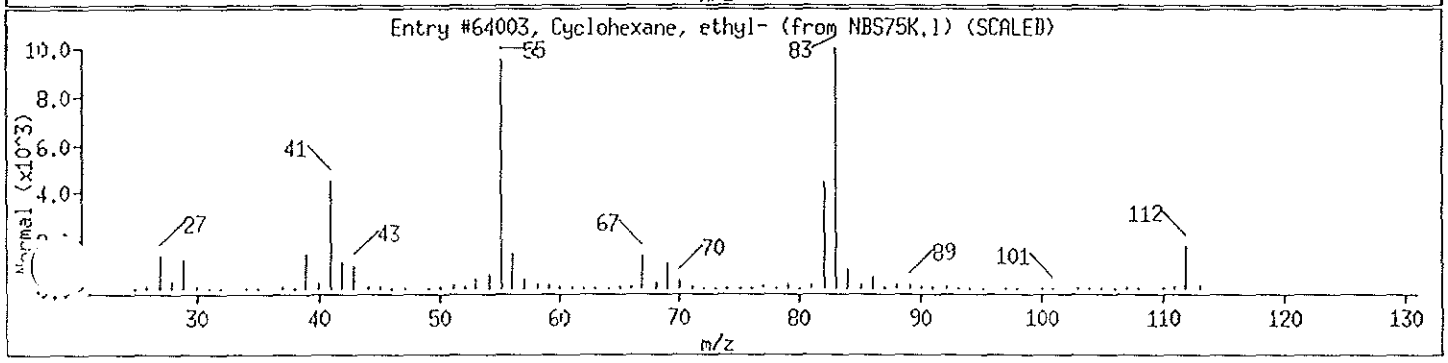
0040

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclopentane, 1-methyl-3-(1-methylethyl)	53771-88-3	NBS75K.1	4644	64	C9H18	126
Cyclohexane, propyl-	1678-92-8	NBS75K.1	64935	59	C9H18	126
Cyclohexane, ethyl-	1678-91-7	NBS75K.1	64003	53	C8H16	112









0041

Data File: /chem/msc.i/c112095.b/c6917.d

Date : 20-NOV-95 15:14

Client ID: 17418n clj78tw00~~1~~ 2 12-4-95 KB

Sample Info: 17418n clj78tw00~~1~~ 2

Instrument: msc.i

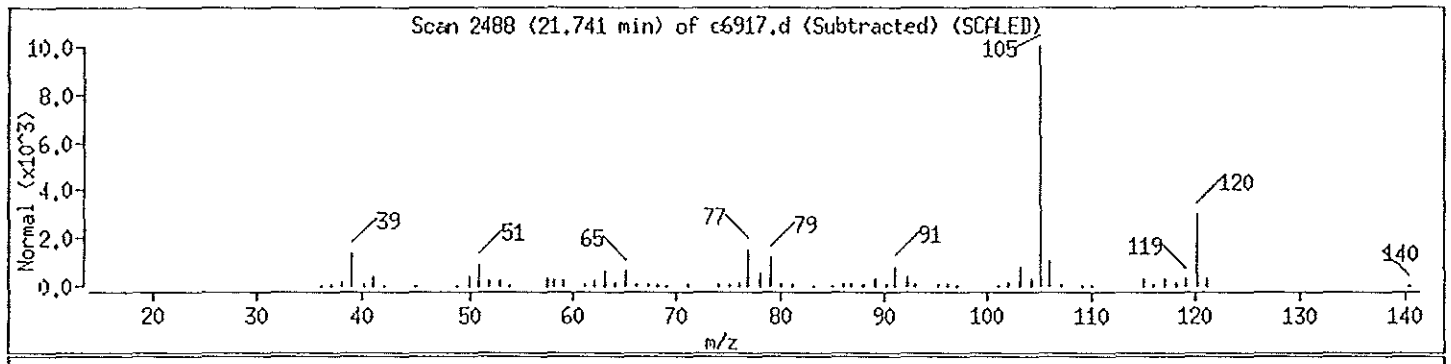
Purge Volume: 1.0

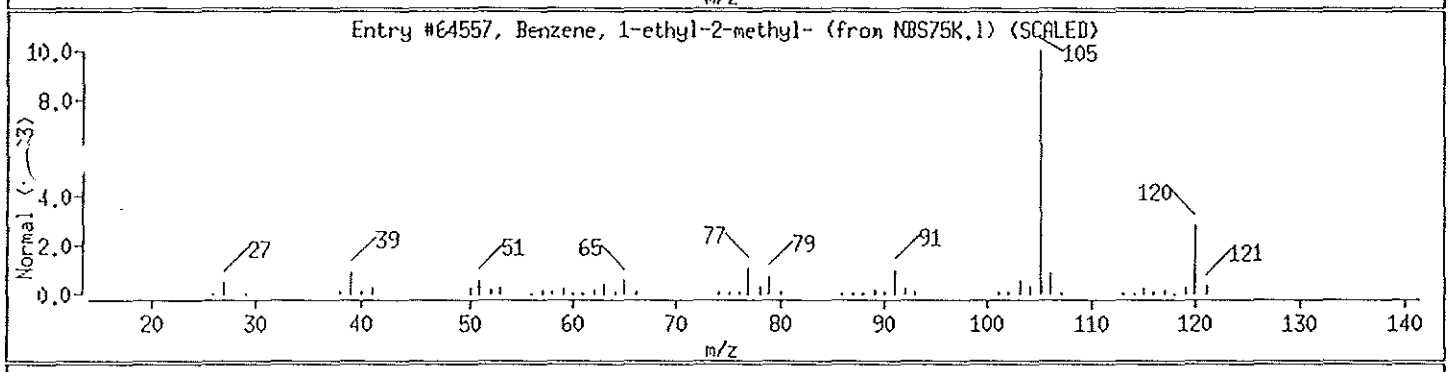
Operator: jk

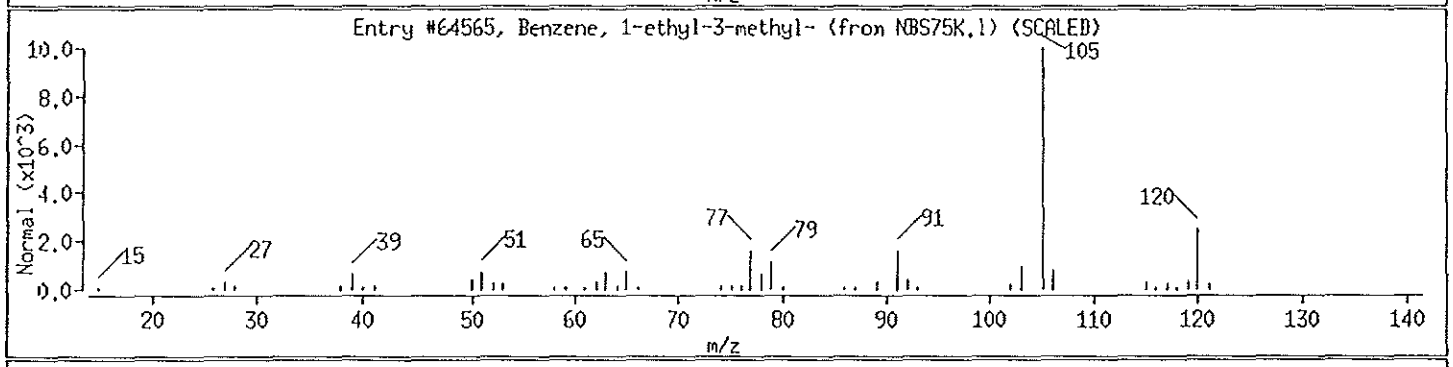
Column phase: J&W DB_624

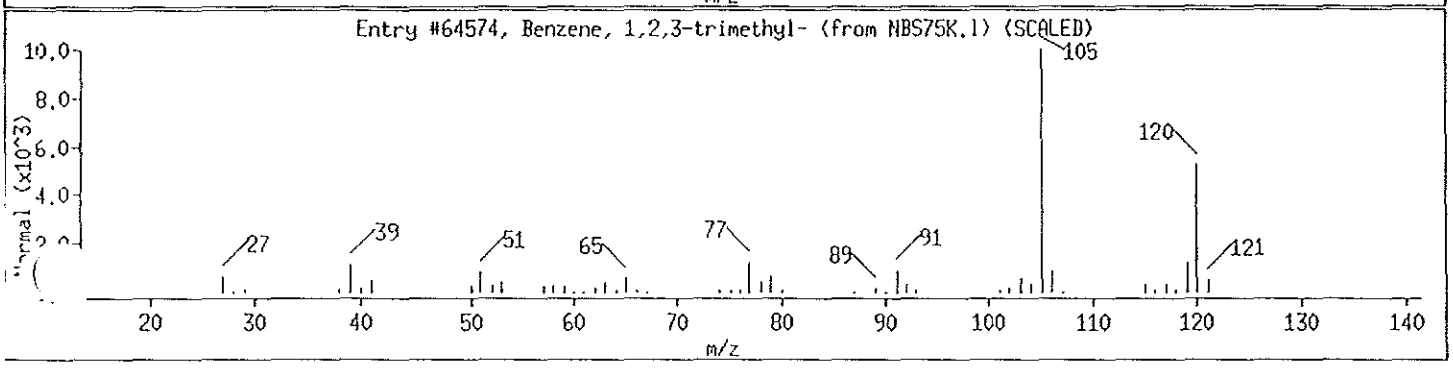
Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-ethyl-2-methyl-	611-14-3	NBS75K.l	64557	94	C9H12	120
Benzene, 1-ethyl-3-methyl-	620-14-4	NBS75K.l	64565	91	C9H12	120
Benzene, 1,2,3-trimethyl-	526-73-8	NBS75K.l	64574	91	C9H12	120









Data File: /chem/msc.i/c112095.b/c6917.d

Date : 20-NOV-95 15:14

Client ID: 17418n clj78tw001 12-4-95

Sample Info: 17418n clj78tw001

Purge Volume: 1.0

Column phase: J&W DB_624

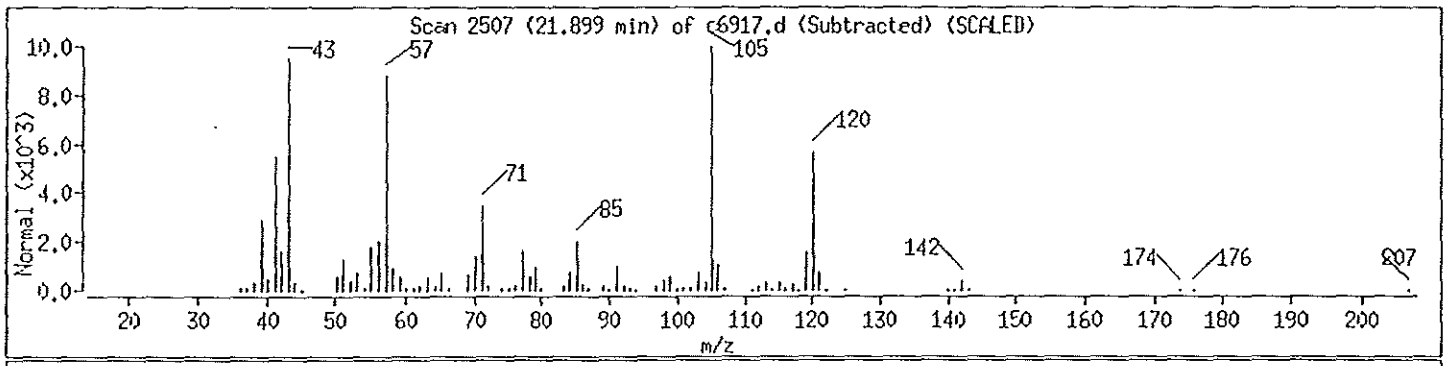
Instrument: msc.i

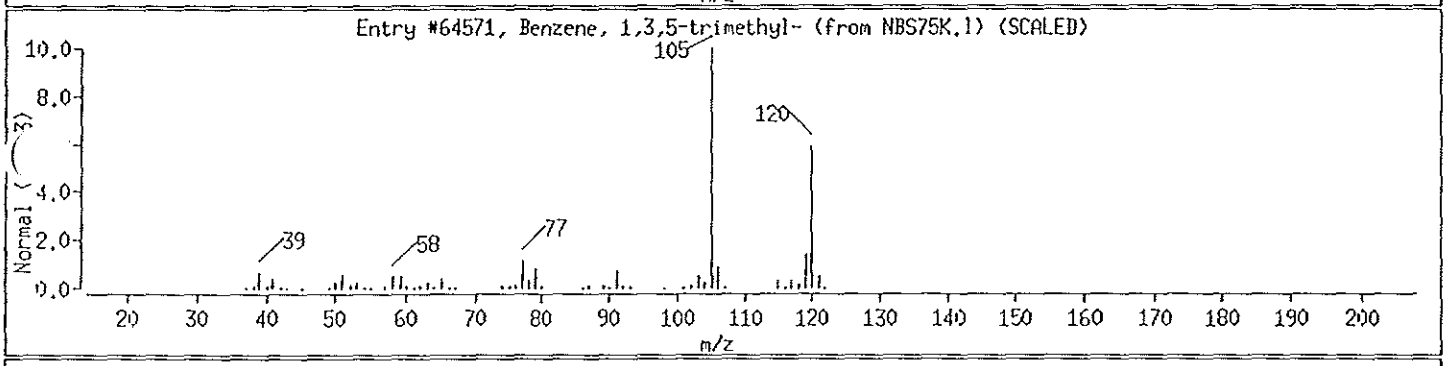
Operator: jk

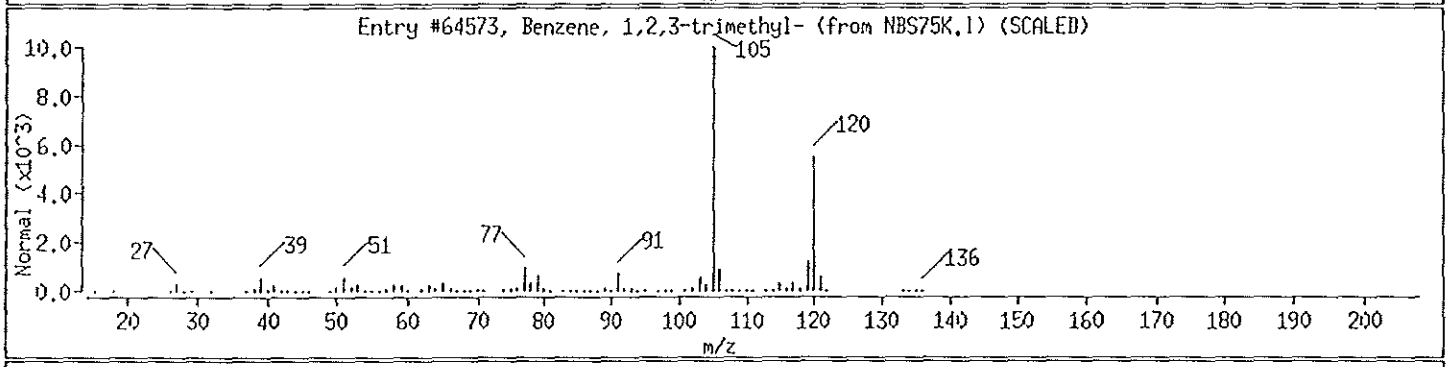
Column diameter: 0.53

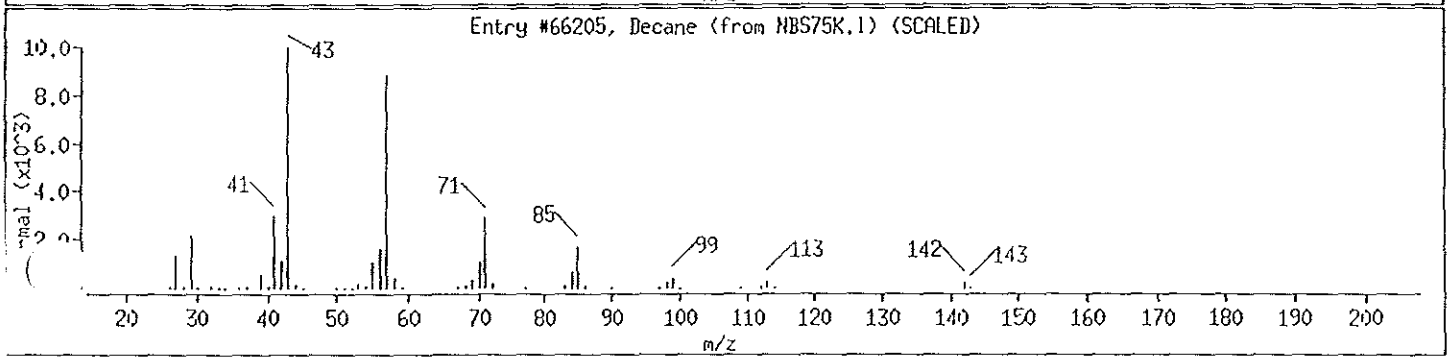
0042

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1,3,5-trimethyl-	108-67-8	NBS75K.l	64571	89	C9H12	120
Benzene, 1,2,3-trimethyl-	526-73-8	NBS75K.l	64573	87	C9H12	120
Decane	124-18-5	NBS75K.l	66205	86	C10H22	142









Data File: /chem/msc.i/c112095.b/c6917.d

Date : 20-NOV-95 15:14

Client ID: 17418n clj78tw001 12-4-95 KB

Sample Info: 17418n clj78tw001

Purge Volume: 1.0

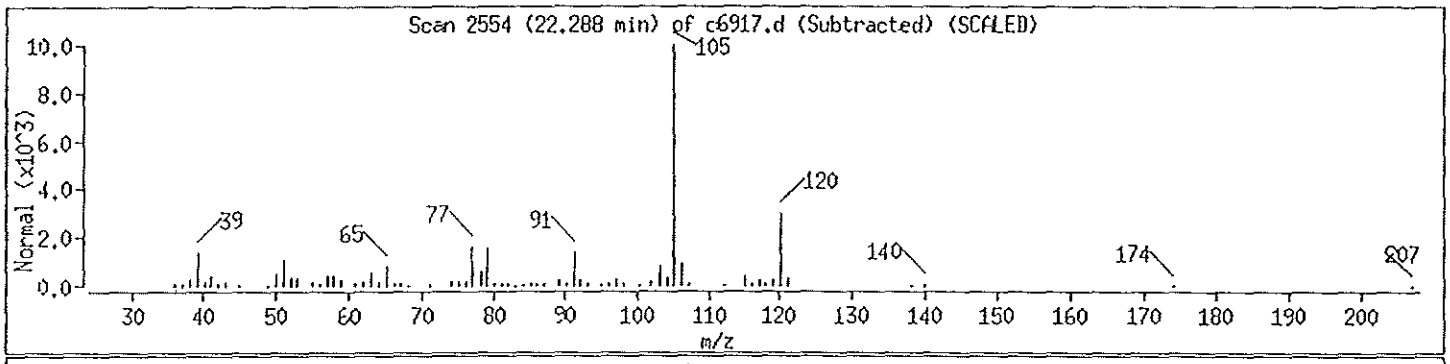
Column phase: J&W DB_624

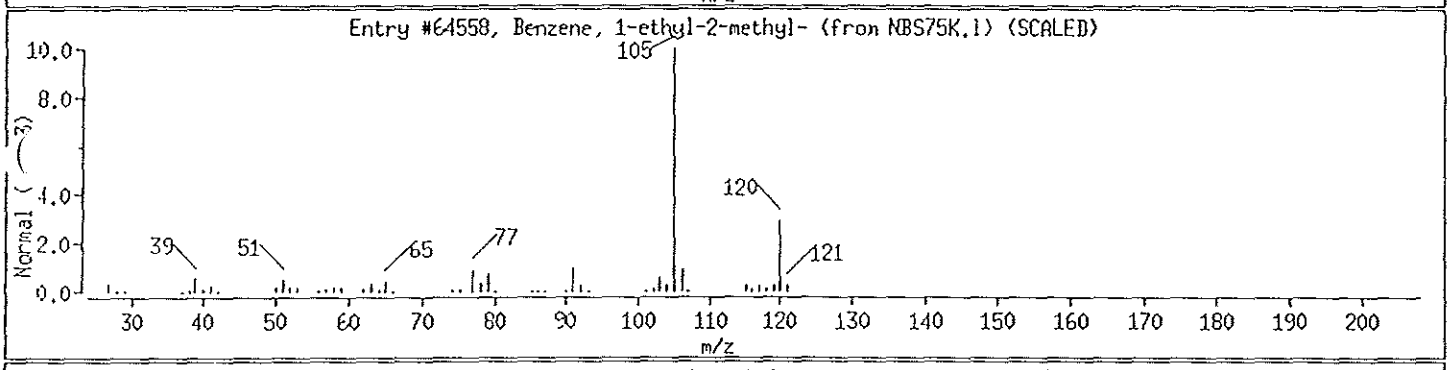
Instrument: msc.i

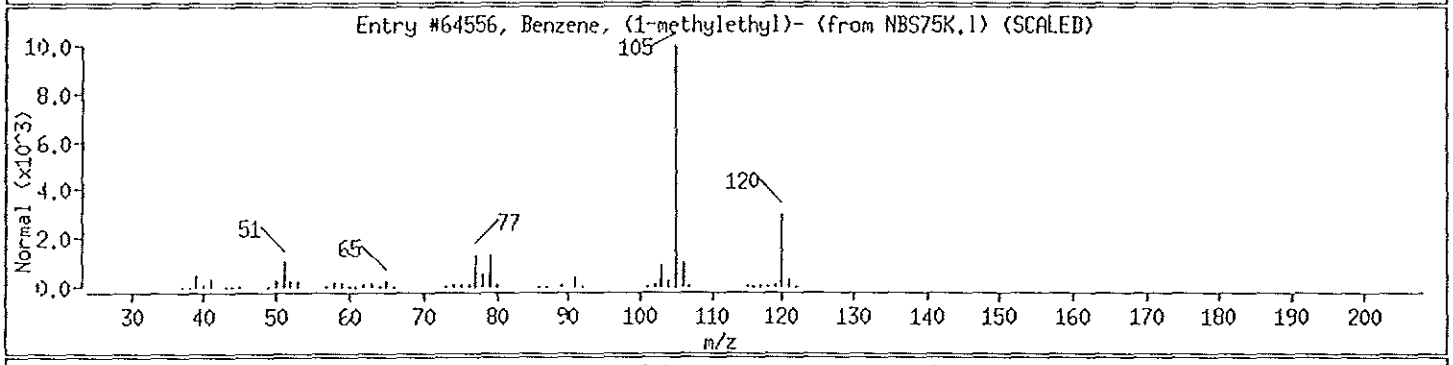
Operator: jk

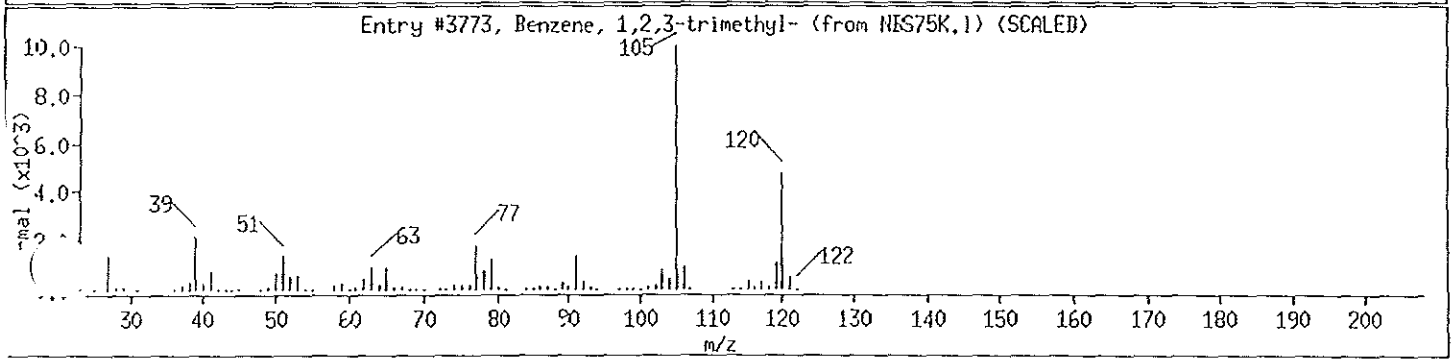
Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-ethyl-2-methyl-	611-14-3	NBS75K.l	64558	95	C9H12	120
Benzene, (1-methylethyl)-	98-82-8	NBS75K.l	64556	93	C9H12	120
Benzene, 1,2,3-trimethyl-	526-73-8	NBS75K.l	3773	91	C9H12	120









Data File: /chem/msc.i/c112095.b/c6917.d

Date : 20-NOV-95 15:14

Client ID: 17418n clj78tw00 12-4-95

Sample Info: 17418n clj78tw00 100

Instrument: msc.i

0044

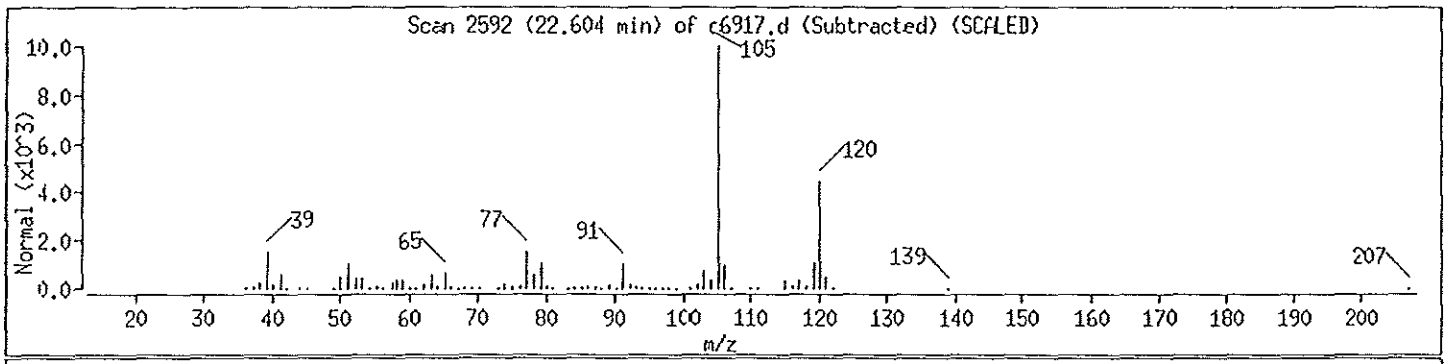
Purge Volume: 1.0

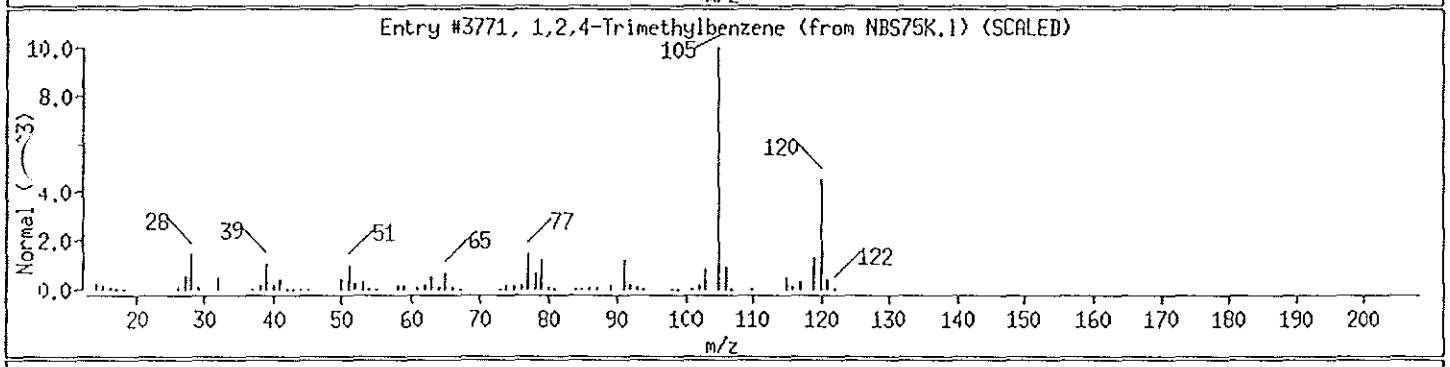
Operator: jk

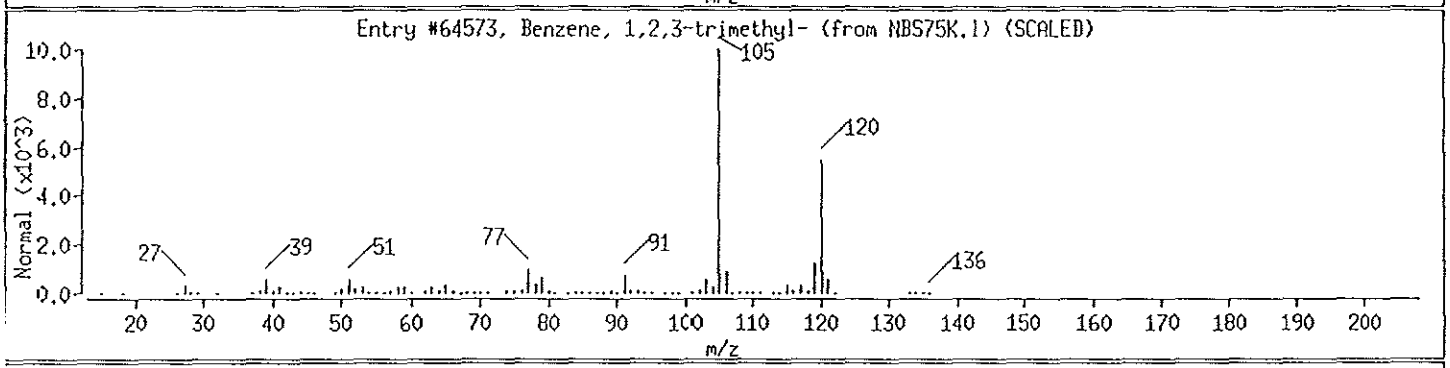
Column phase: J&W DB_624

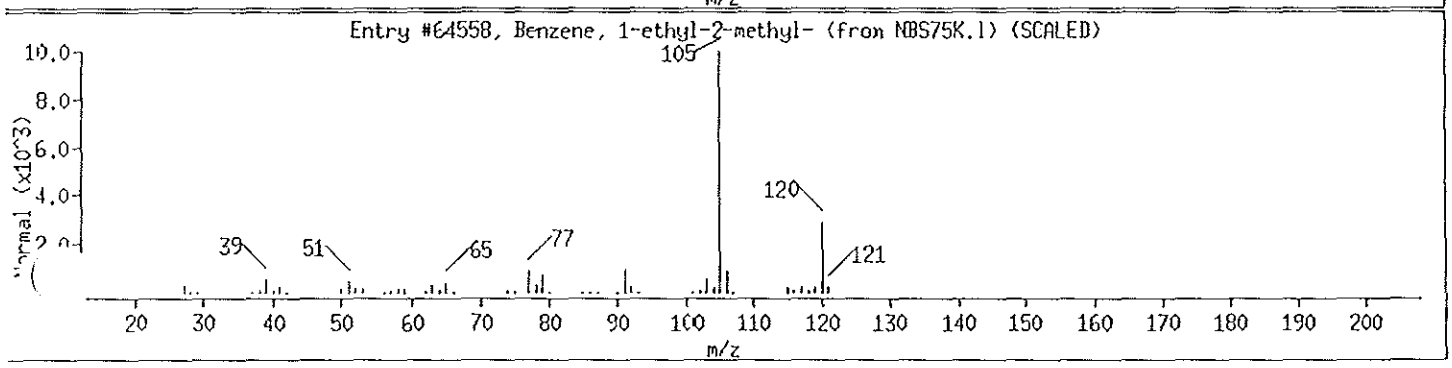
Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,2,4-Trimethylbenzene	95-36-3	NBS75K.l	3771	96	C9H12	120
Benzene, 1,2,3-trimethyl-	526-73-8	NBS75K.l	64573	95	C9H12	120
Benzene, 1-ethyl-2-methyl-	611-14-3	NBS75K.l	64558	95	C9H12	120









Data File: /chem/msc.i/c112095.b/c6917.d

Date : 20-NOV-95 15:14

Client ID: 17418n clj78tw001 2

Sample Info: 17418n clj78tw001 2 12-4-95 KB

Instrument: msc.i

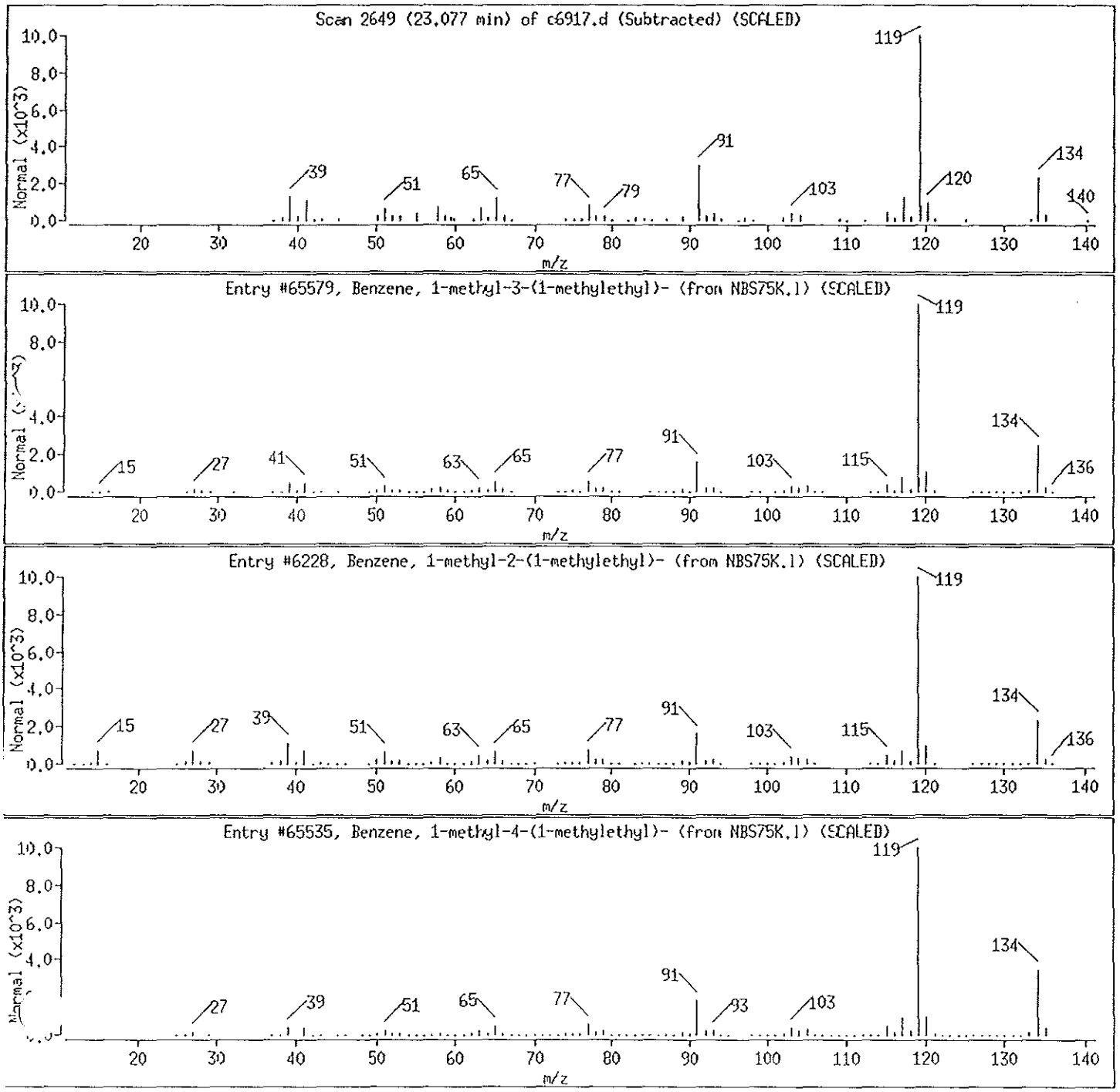
Purge Volume: 1.0

Operator: jk

Column phase: J&W DB_624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	NBS75K.l	65579	94	C10H14	134
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	NBS75K.l	6228	94	C10H14	134
Benzene, 1-methyl-4-(1-methylethyl)-	99-87-6	NBS75K.l	65535	94	C10H14	134



Data File: /chem/msc.i/c112095.b/c6917.d

Date : 20-NOV-95 15:14

Client ID: 17418n clj78tw001 12-4-95

Sample Info: 17418n clj78tw001

Instrument: msc.i

0046

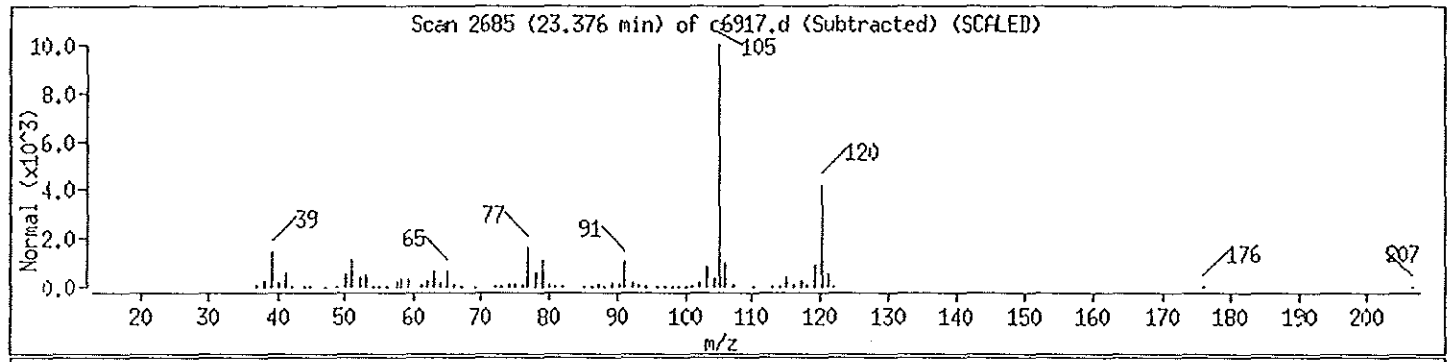
Purge Volume: 1.0

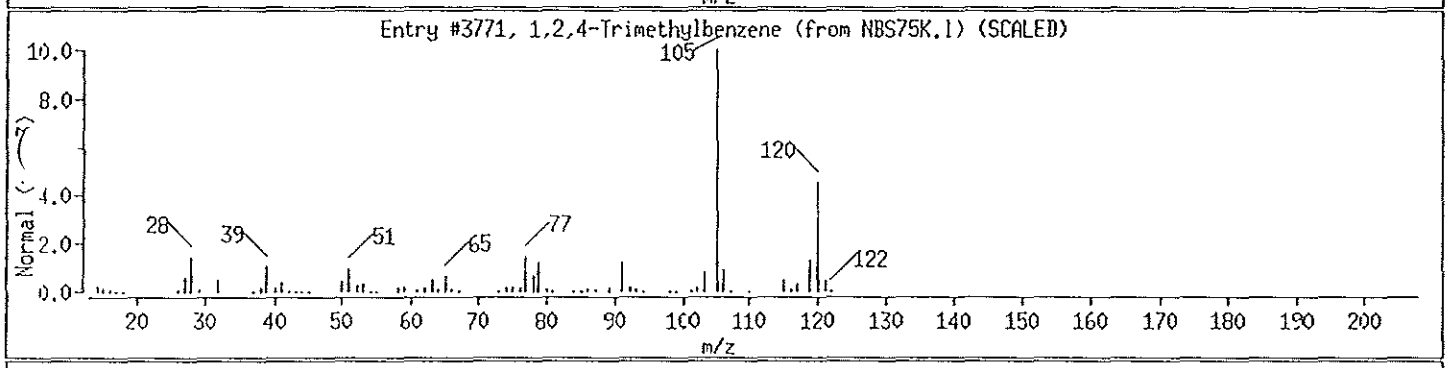
Operator: jk

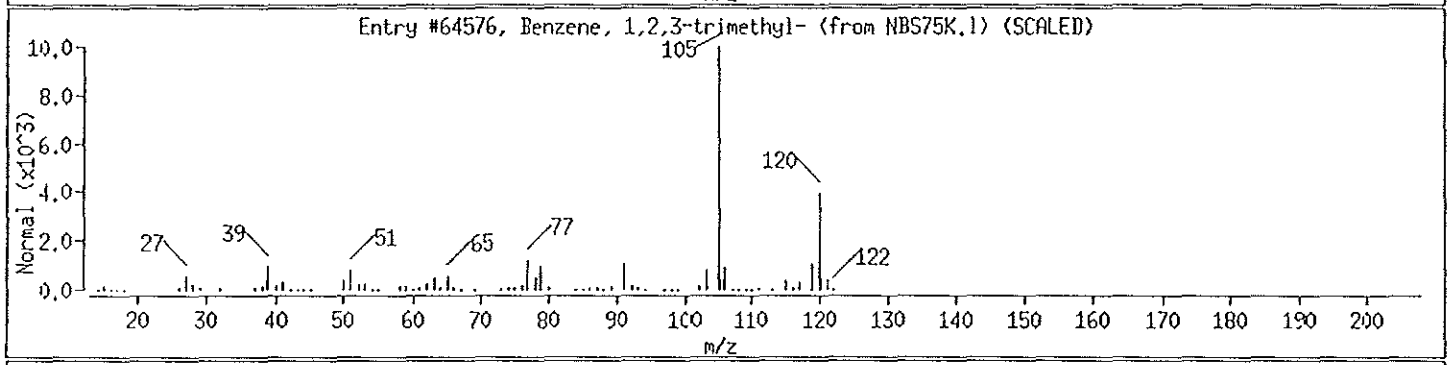
Column phase: J&W DB_624

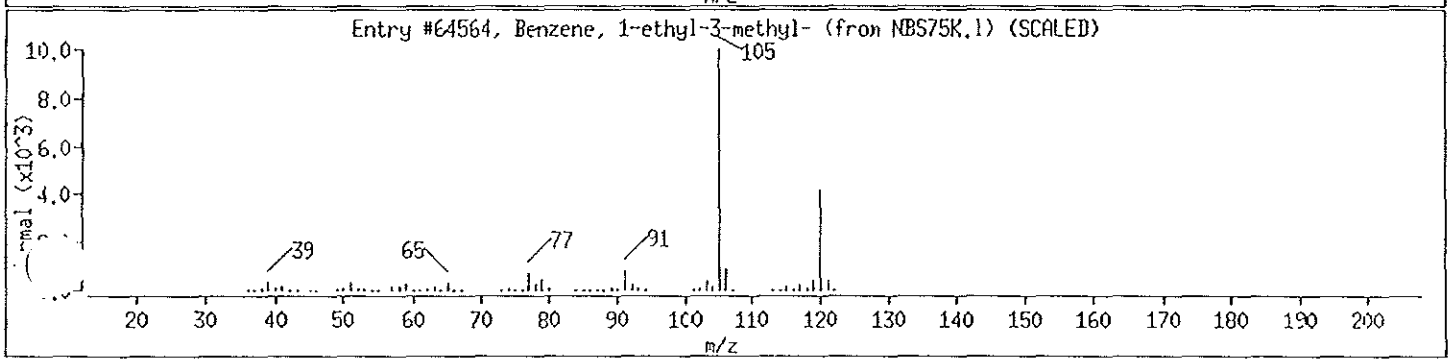
Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,2,4-Trimethylbenzene	95-36-3	NBS75K.l	3771	96	C9H12	120
Benzene, 1,2,3-trimethyl-	526-73-8	NBS75K.l	64576	95	C9H12	120
Benzene, 1-ethyl-3-methyl-	620-14-4	NBS75K.l	64564	94	C9H12	120









Data File: /chem/msc.i/c112095.b/c6917.d

Date : 20-NOV-95 15:14

Client ID: 17418n clj78tw00~~1~~2

Sample Info: 17418n clj78tw00~~1~~2 12-4-95 KB

Purge Volume: 1.0

Column phase: J&W DB_624

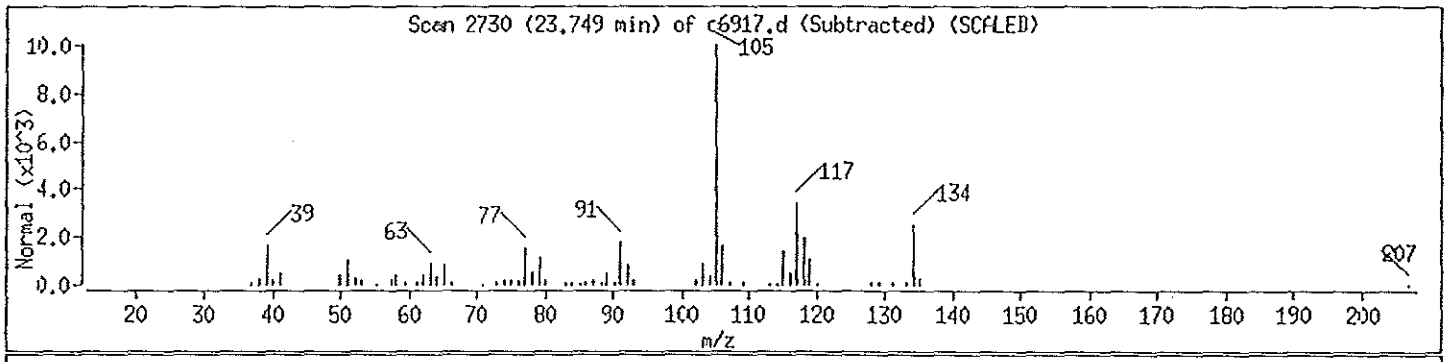
Instrument: msc.i

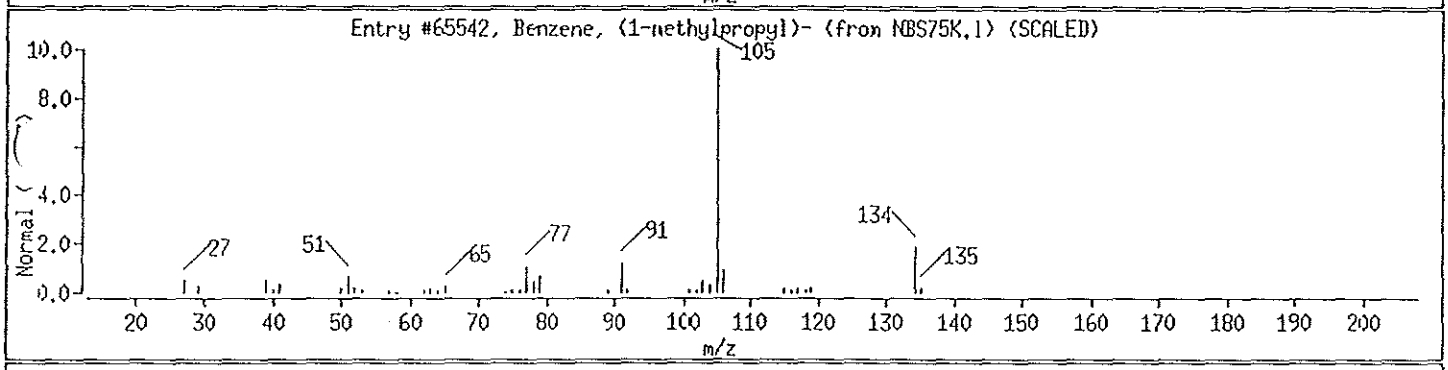
Operator: jk

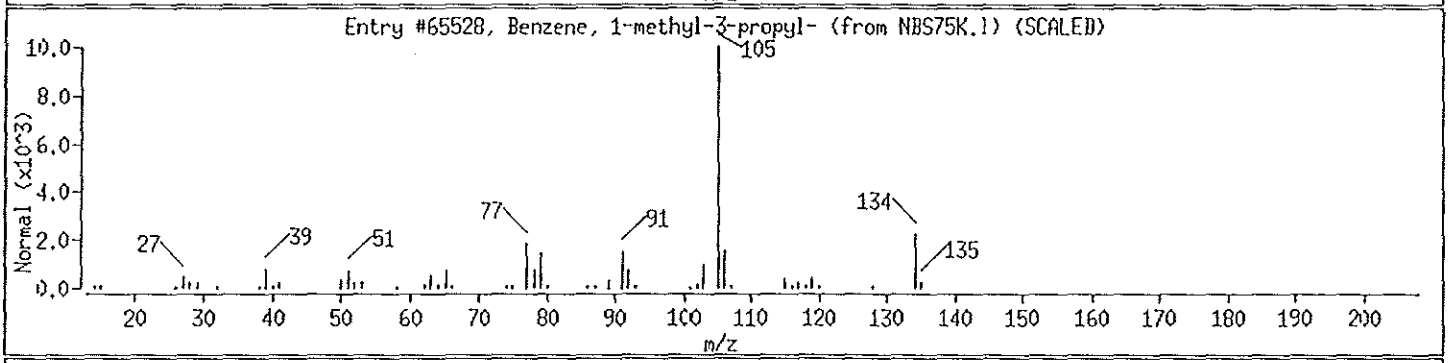
Column diameter: 0.53

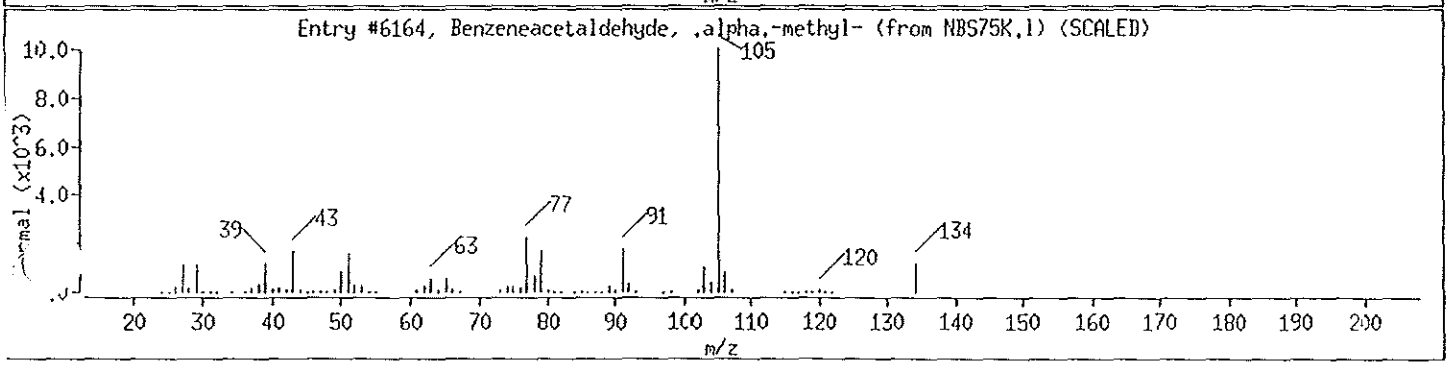
0047

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, (1-methylpropyl)-	135-98-8	NBS75K.l	65542	50	C10H14	134
Benzene, 1-methyl-3-propyl-	1074-43-7	NBS75K.l	65528	50	C10H14	134
Benzeneacetaldehyde, .alpha.-methyl-	93-53-8	NBS75K.l	6164	46	C9H10O	134









Data File: /chem/msc.i/c112095.b/c6917.d

Date : 20-NOV-95 15:14

Client ID: 17418n clj78tw001 2

Sample Info: 17418n clj78tw00[illegible] 12-4-95 KB

Instrument: msc.i

0048

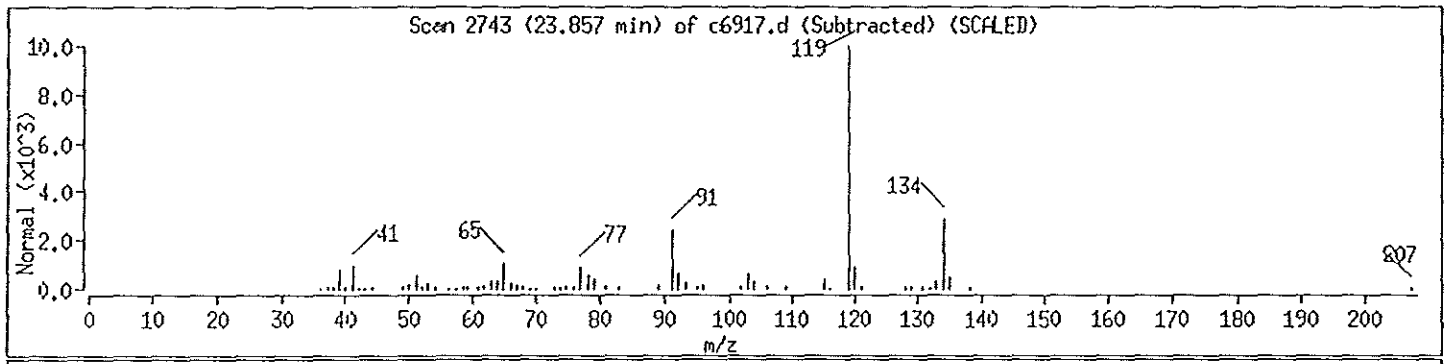
Purge Volume: 1.0

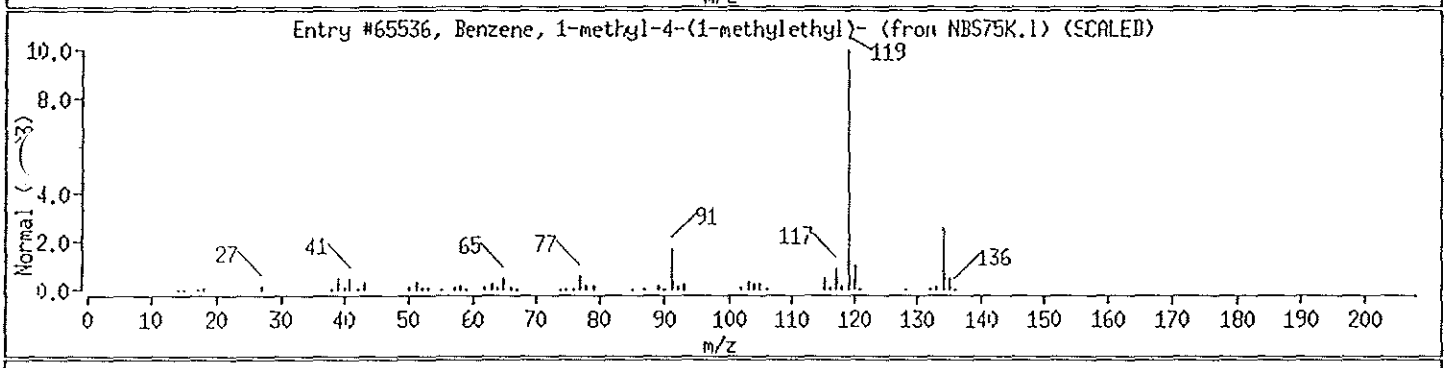
Operator: jk

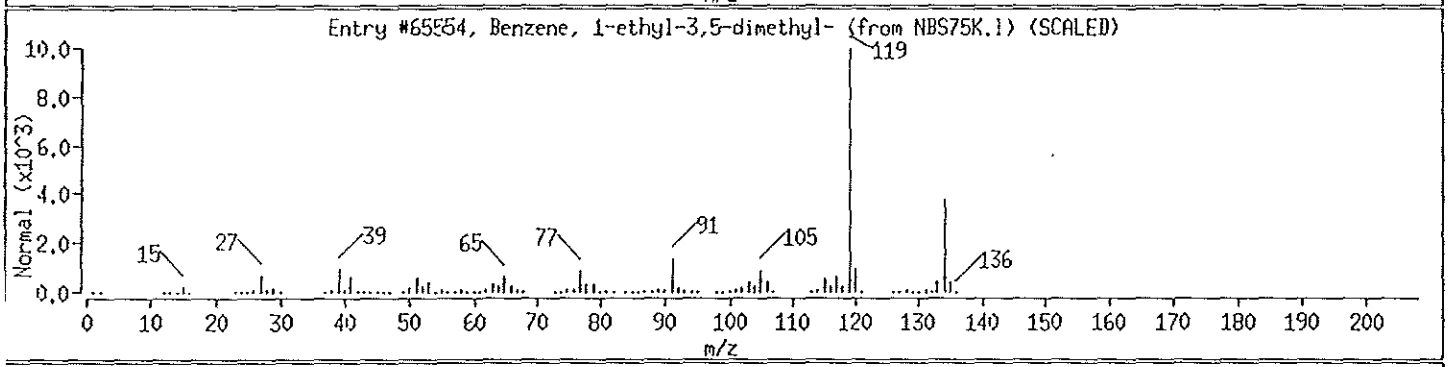
Column phase: J&W DB_624

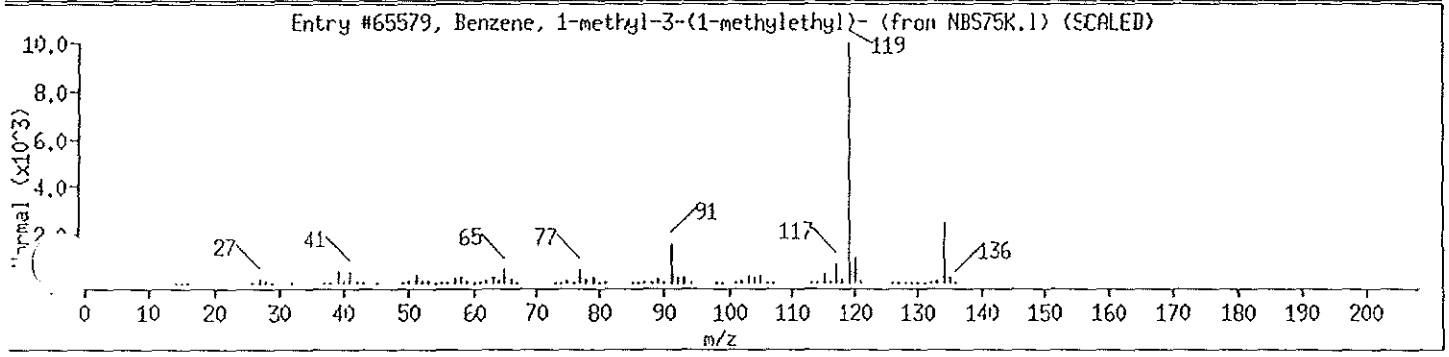
Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-methyl-4-(1-methylethyl)-	99-87-6	NBS75K.l	65536	83	C10H14	134
Benzene, 1-ethyl-3,5-dimethyl-	934-74-7	NBS75K.l	65554	83	C10H14	134
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	NBS75K.l	65579	83	C10H14	134









1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0049 CLJ78TW003

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Matrix: (soil/water) SOIL Lab Sample ID: JP0321V

Sample wt/vol: 5.09 (g/mL) G Lab File ID: C6918

Level: (low/med) LOW Date Received: 11/14/95

% Moisture: not dec. 14 Date Analyzed: 11/20/95

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ~~5000~~ N/A (uL) Soil Aliquot Volume: ~~5000~~ N/A (uL)

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

CAS NO.	COMPOUND		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	5	BJ
67-64-1	Acetone	83	
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	6	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
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	.6	BJ
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	11	U
591-78-6	2-Hexanone	6	U
127-18-4	Tetrachloroethylene	36	B
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	.9	J
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	.7	J
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0050

EPA SAMPLE NO.

CLJ78TW003

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Matrix: (soil/water) SOIL Lab Sample ID: JP0321V

Sample wt/vol: 5.09 (g/mL) G Lab File ID: C6918

Level: (low/med) LOW Date Received: 11/14/95

% Moisture: not dec. 14 Date Analyzed: 11/20/95

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ~~5000~~ N/A (uL) Soil Aliquot Volume: ~~5000~~ N/A (uL)

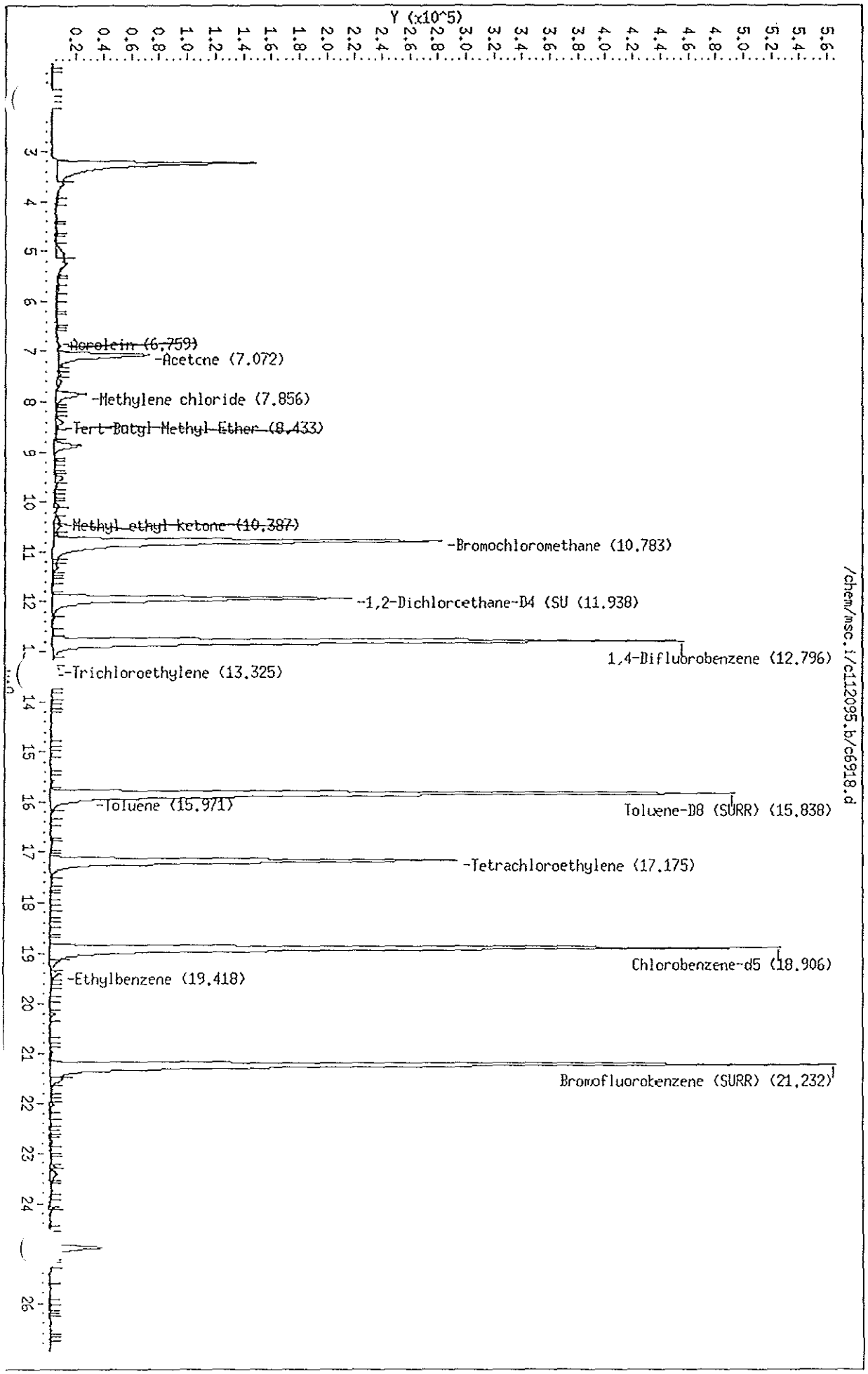
Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: /chem/msc.i/c112095.b/c6918.d
Date : 20-NOV-95 16:33
Client ID: 17418n clj78tw003
Sample Info: 17418n clj78tw003
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i
Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c112095.b/c6918.d
Report Date: 20-Nov-1995 17:04

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

+Screen

Data file : /chem/msc.i/c112095.b/c6918.d
Lab Smp Id: Client Smp ID: 17418n clj78tw003
Inj Date : 20-NOV-95 16:33
Operator : jk Inst ID: msc.i
Smp Info : 17418n clj78tw003
Misc Info : jp0321v,n2v4794,m2,5000,1,5.09,5.0,951120,
Comment :
Method : /chem/msc.i/c112095.b/110295_8240heatc.m
Meth Date : 20-Nov-1995 16:33 glenn Quant Type: ISTD
Cal Date : 20-NOV-95 08:08 Cal File: c6908.d
Als bottle: 11
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

11/21/95

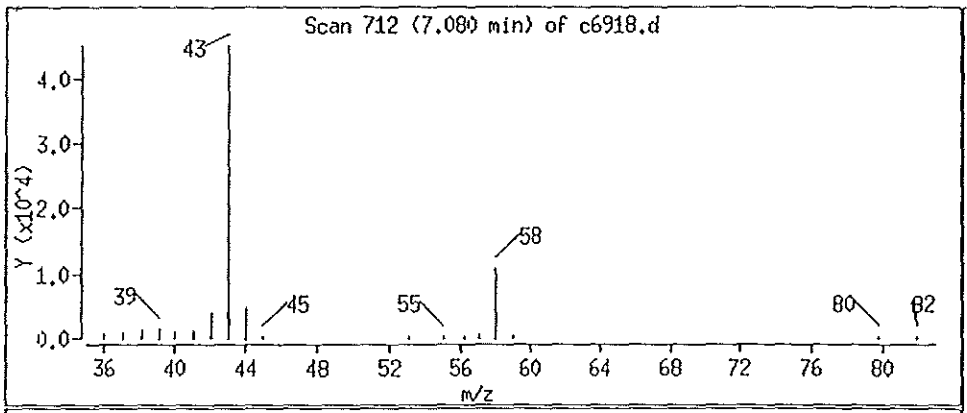
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	Acrolein	56.00	6.759	6.583	(0.627)	2021	1.48	~~1.48(Q)~~ RS
	10 Acetone	43.00	7.080	6.965	(0.657)	296140	72.7	72.7
	12 Methylene chloride	84.00	7.856	7.659	(0.729)	25762	4.12	4.12
	15 Tert-Butyl Methyl Ether	73.00	8.433	8.263	(0.782)	9241	0.564	~~0.564(aQ)~~ RS
	18 Methyl ethyl ketone	72.00	10.387	10.205	(0.812)	1929	1.50	~~1.50~~ RS
*	20 Bromochloromethane	128.00	10.783	10.577	(1.000)	204853	50.0	
$	24 1,2-Dichloroethane-D4 (SURR)	65.00	11.938	11.711	(1.107)	395677	45.0	45.0
*	27 1,4-Difluorobenzene	114.00	12.796	12.571	(1.000)	929520	50.0	
	28 Trichloroethylene	130.00	13.325	13.117	(1.041)	3890	0.522	0.522(a)
$	34 Toluene-D8 (SURR)	98.00	15.838	15.623	(0.838)	872947	51.9	51.9
	35 Toluene	92.00	15.971	15.756	(0.845)	9312	0.772	0.772(a)
	38 Tetrachloroethylene	164.00	17.175	16.956	(0.908)	206672	31.8	31.8
*	42 Chlorobenzene-d5	117.00	18.906	18.710	(1.000)	709633	50.0	
	44 Ethylbenzene	106.00	19.410	18.976	(1.027)	4149	0.591	0.591(a)
$	49 Bromofluorobenzene (SURR)	95.00	21.232	21.053	(1.123)	609080	47.1	47.1

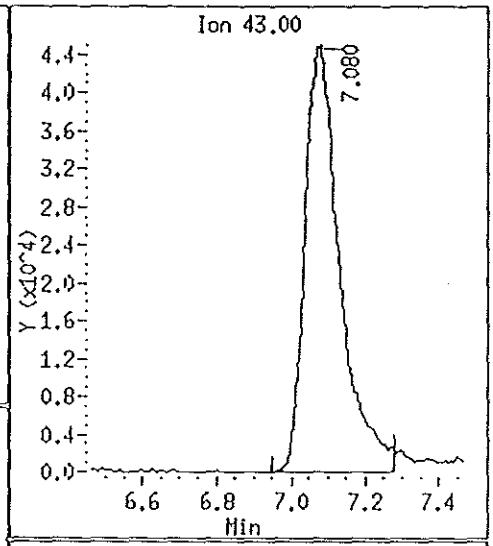
QC Flag Legend

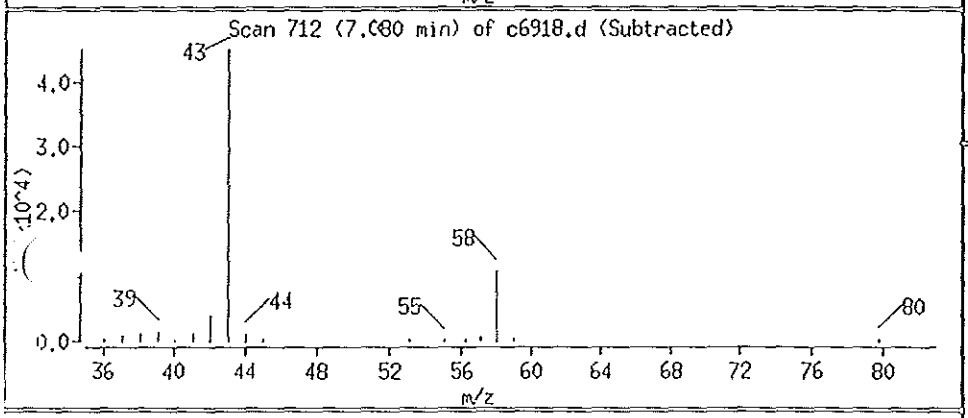
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

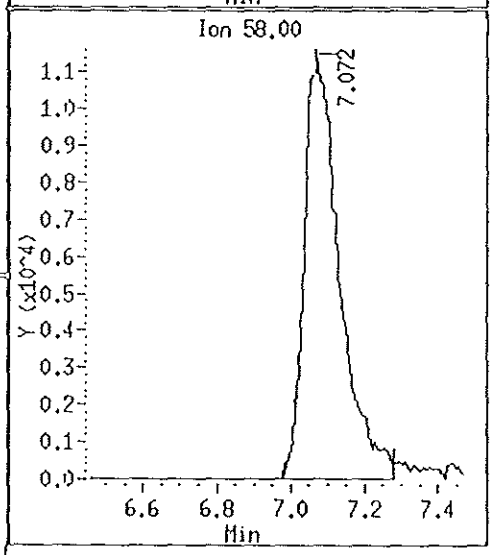
Data File: /chem/msc.i/c112095.b/c6918.d
Date : 20-NOV-95 16:33
Client ID: 17418n clj78tw003 Instrument: msc.i
Sample Info: 17418n clj78tw003
Purge Volume: 1.0 Operator: jk
Column phase: J&W DB_624 Column diameter: 0.53

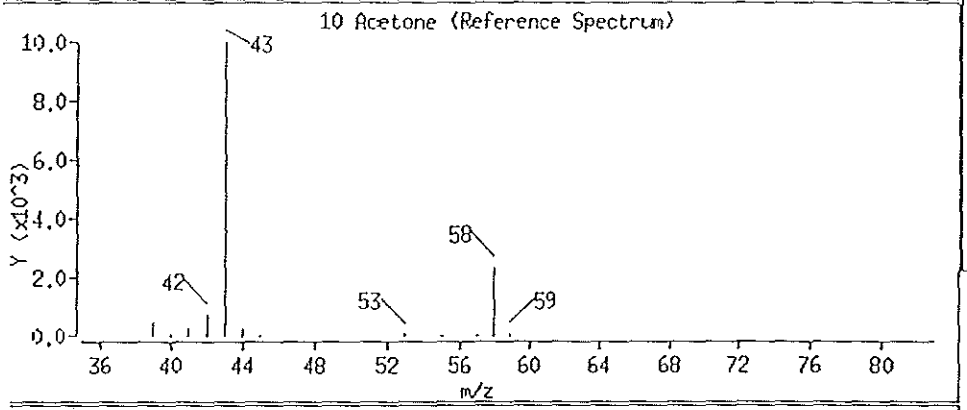
10 Acetone

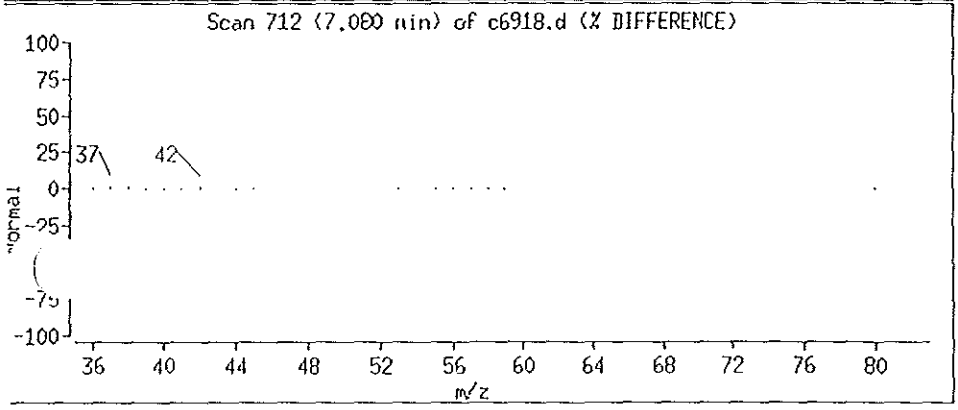












Data File: /chem/msc.i/c112095.b/c6918.d

Date : 20-NOV-95 16:33

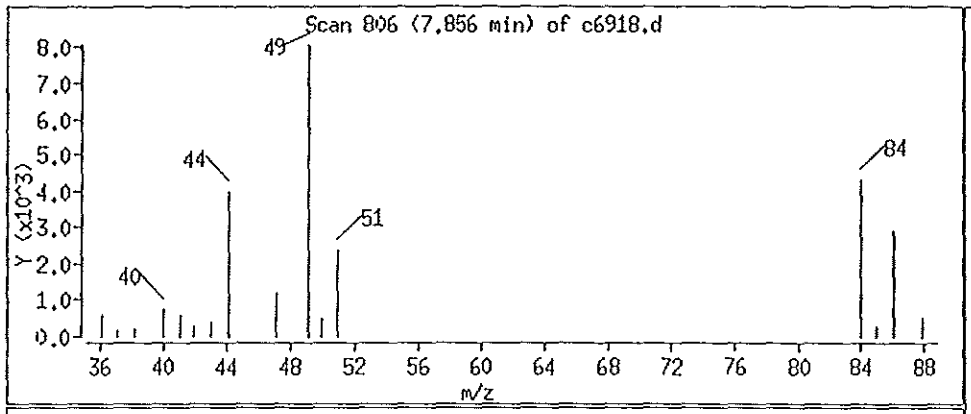
Client ID: 17418n clj78tw003 Instrument: msc.i

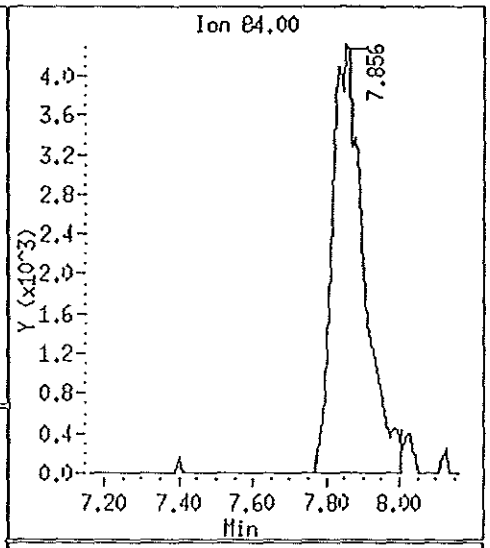
Sample Info: 17418n clj78tw003

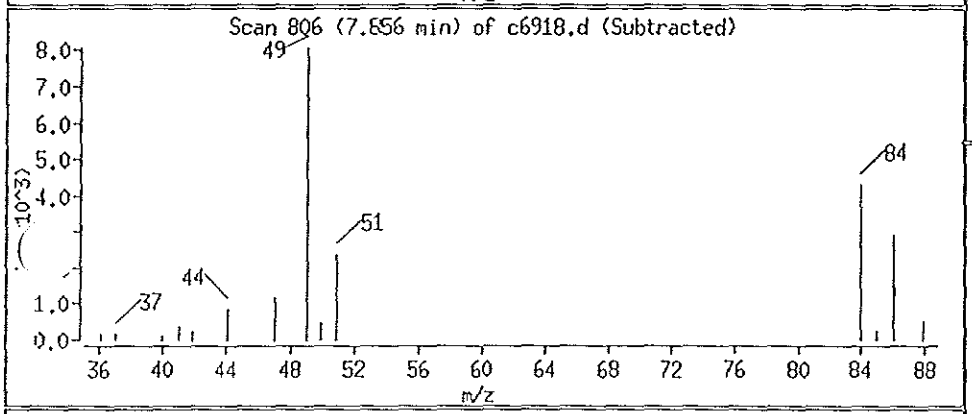
Purge Volume: 1.0 Operator: jk

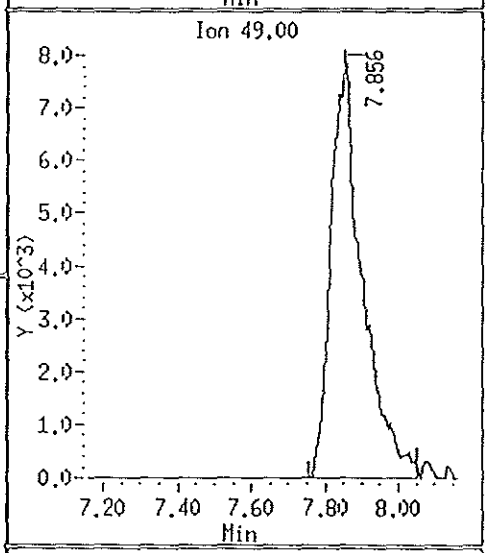
Column phase: J&W DB_624 Column diameter: 0.53

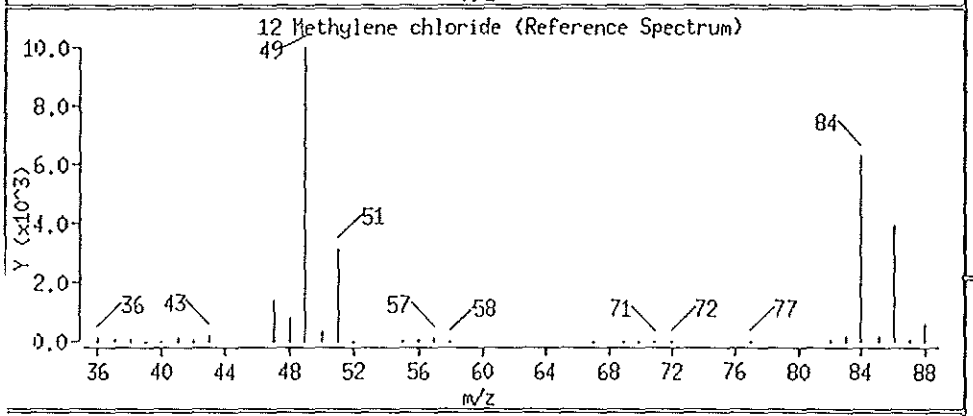
12 Methylene chloride

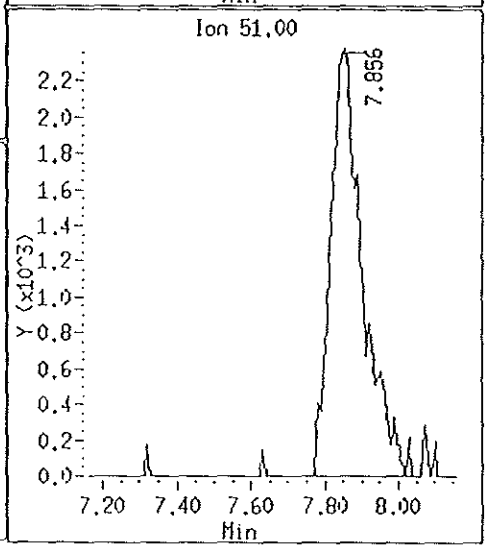


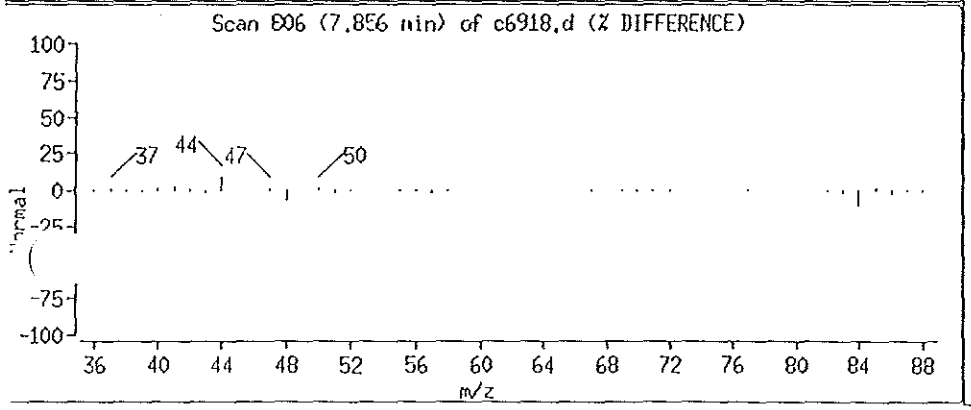






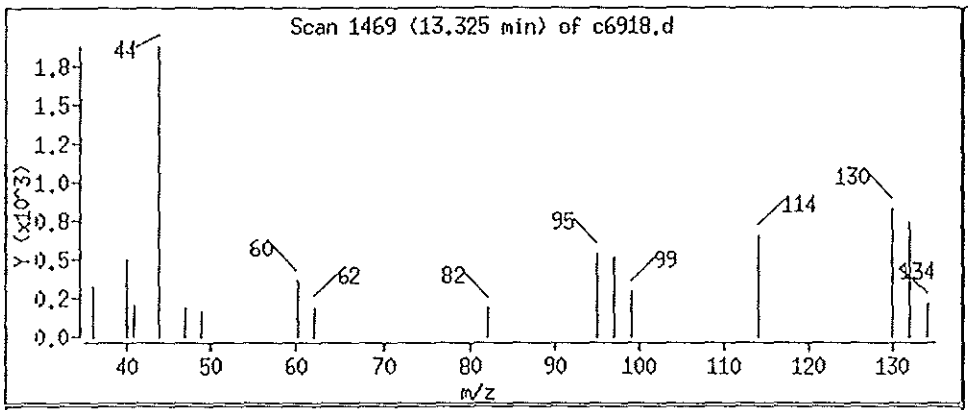


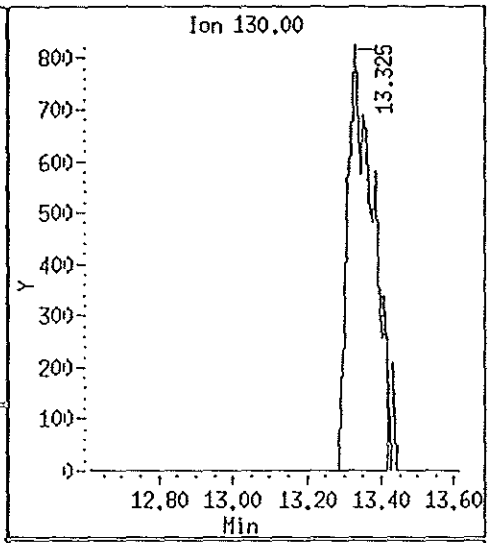


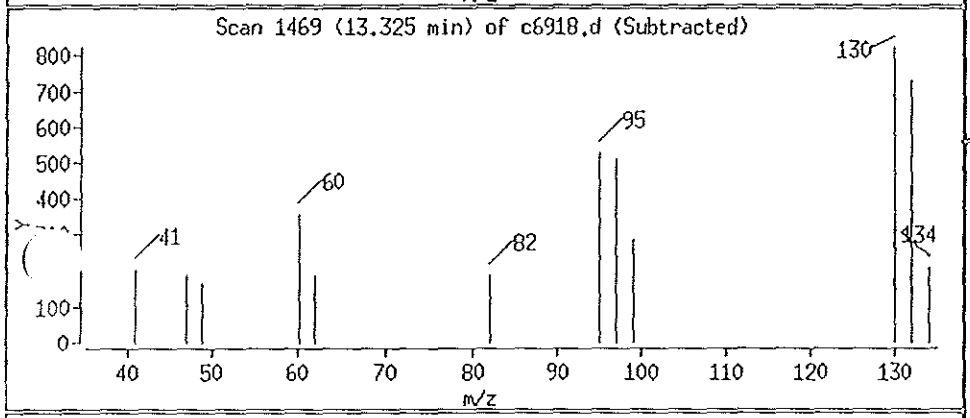


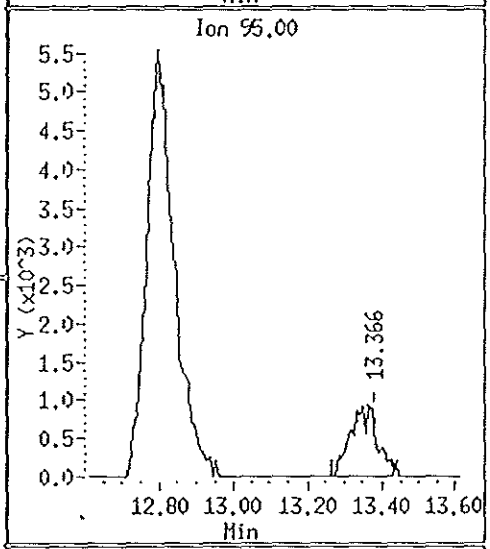
Data File: /chem/msc.i/c112095.b/c6918.d
Date : 20-NOV-95 16:33
Client ID: 17418n clj78tw003 Instrument: msc.i
ample Info: 17418n clj78tw003
Purge Volume: 1.0 Operator: jk
Column phase: J&W DB_624 Column diameter: 0.53

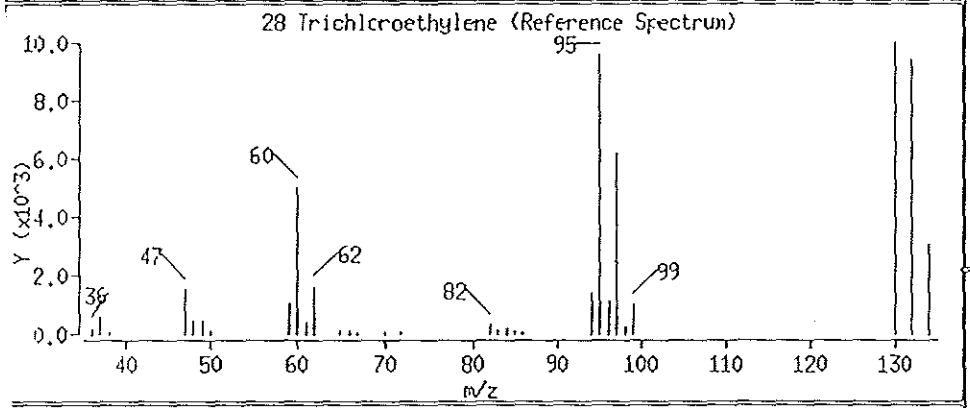
28 Trichloroethylene

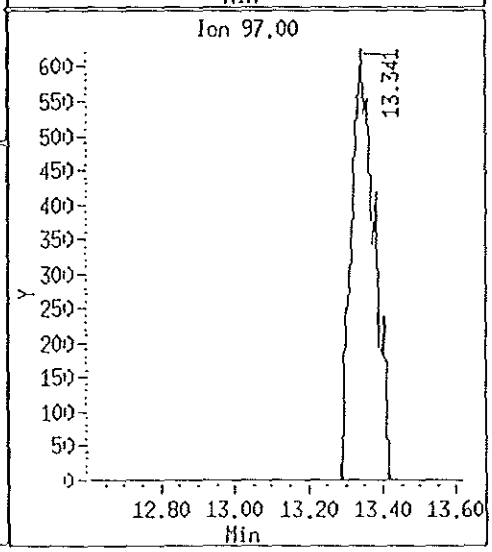


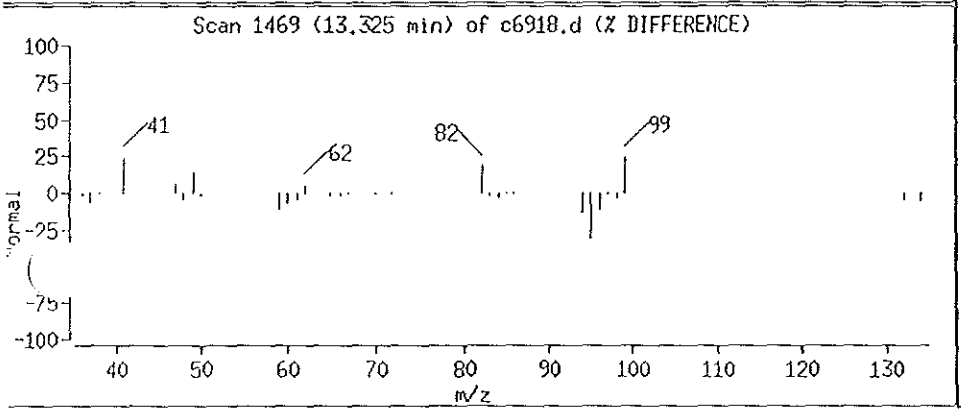












Data File: /chem/msc.i/c112095.b/c6918.d

Date : 20-NOV-95 16:33

Client ID: 17418n clj78tw003

Sample Info: 17418n clj78tw003

Purge Volume: 1.0

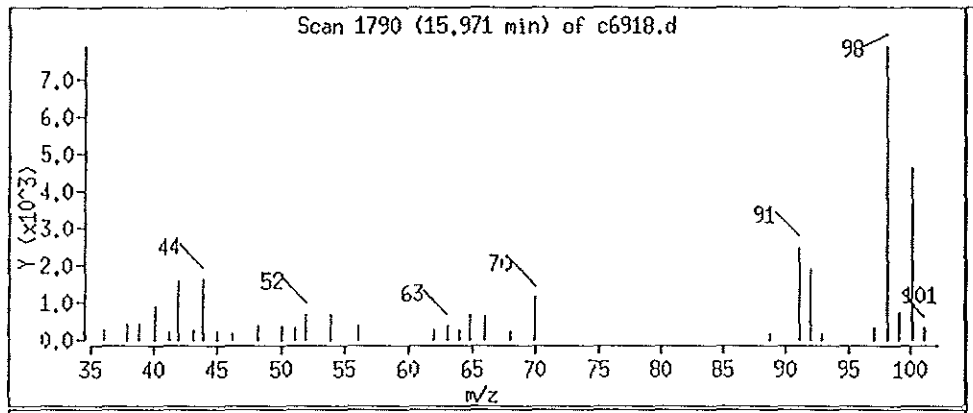
Column phase: J&W DB_624

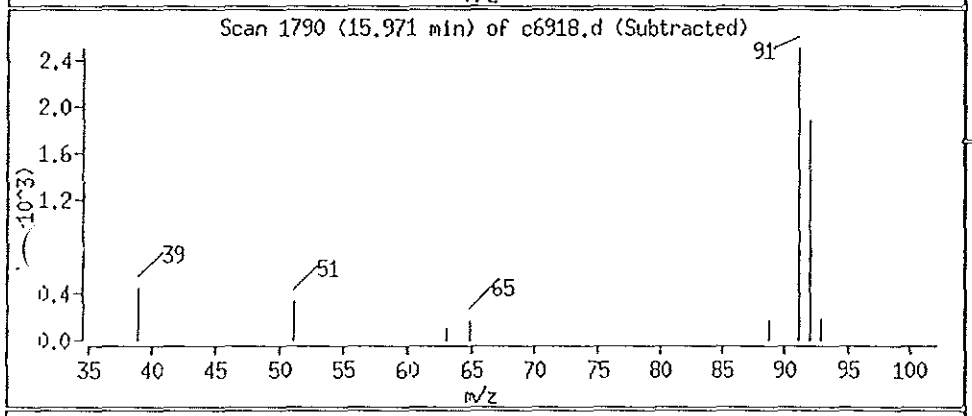
Instrument: msc.i

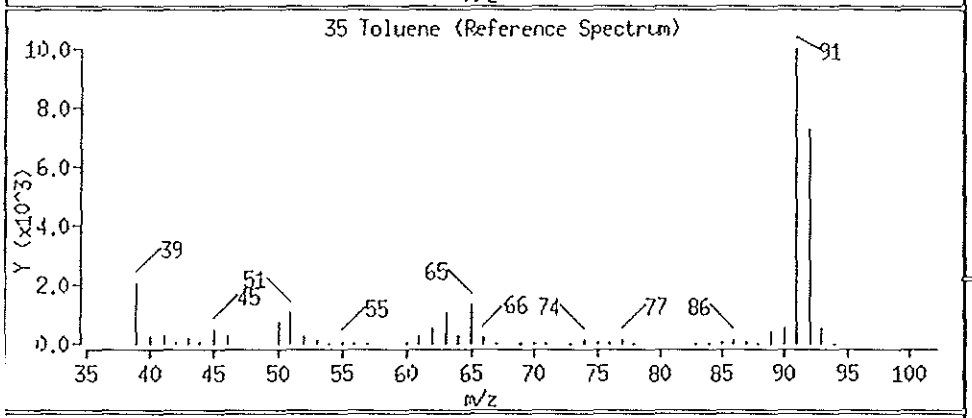
Operator: jk

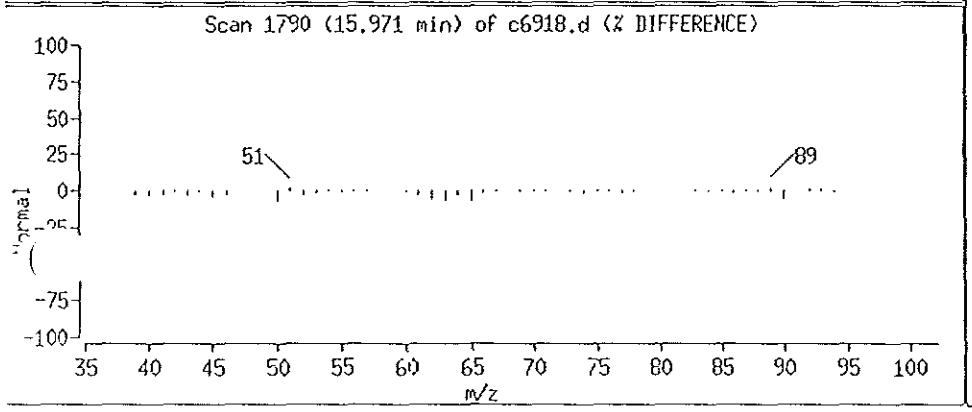
Column diameter: 0.53

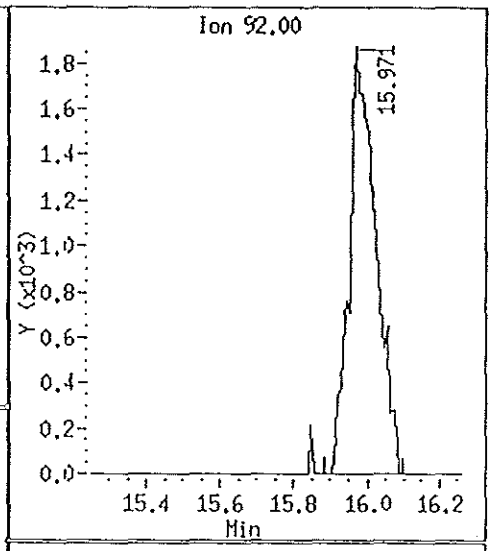
35 Toluene

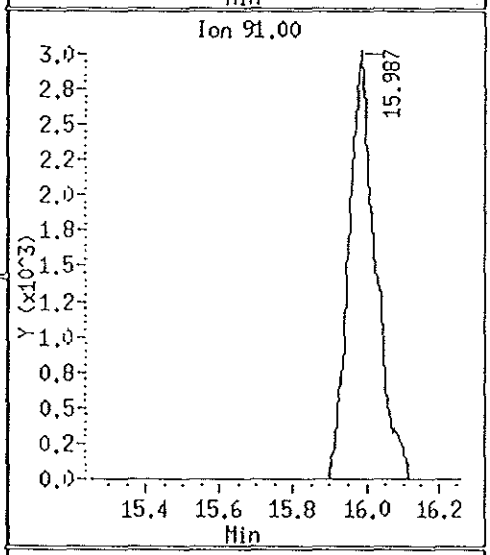


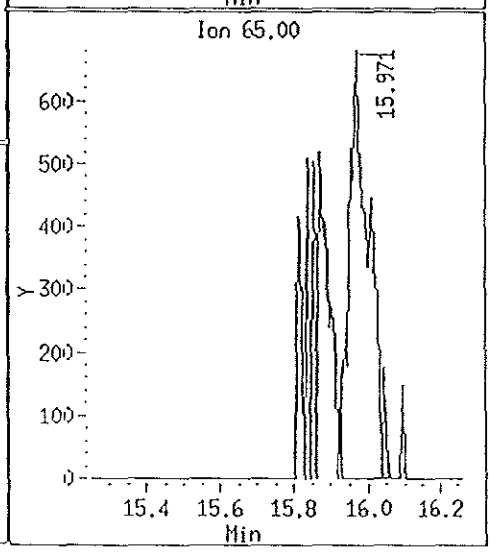












Data File: /chem/msc.i/c112095.b/c6918.d

Date : 20-NOV-95 16:33

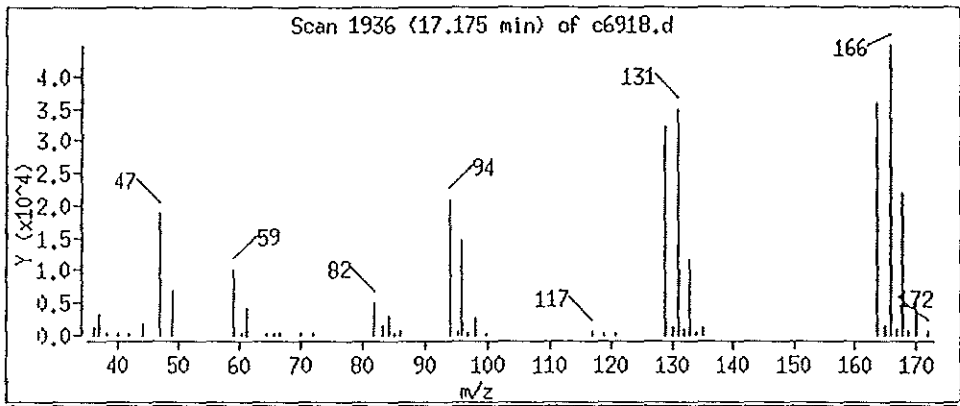
Client ID: 17418n clj78tw003 Instrument: msc.i

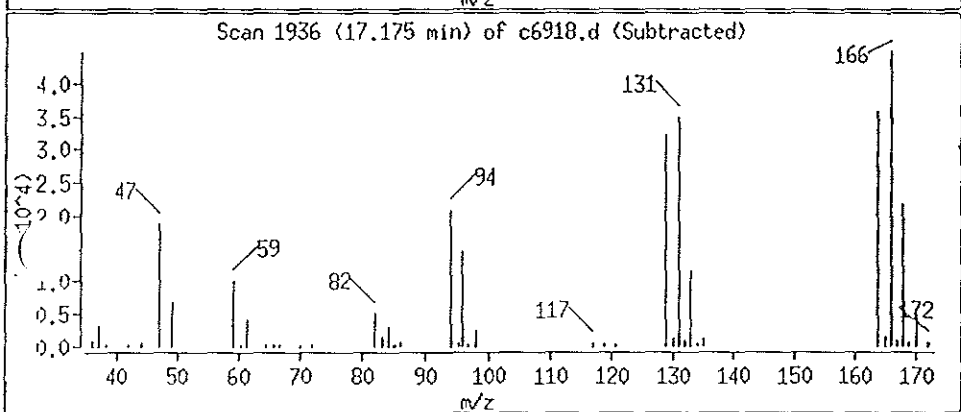
Sample Info: 17418n clj78tw003

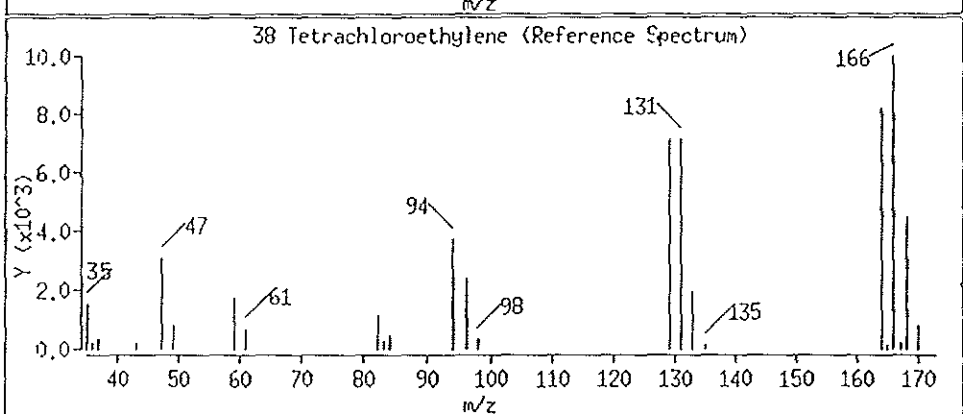
Purge Volume: 1.0 Operator: jk

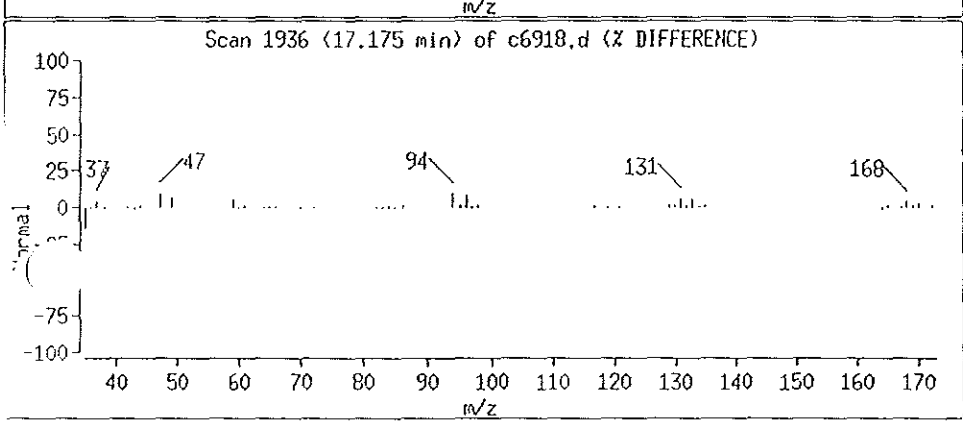
Column phase: J&W DB_624 Column diameter: 0.53

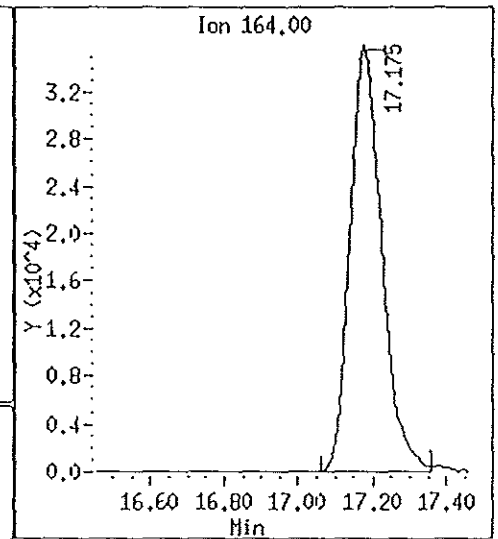
38 Tetrachloroethylene

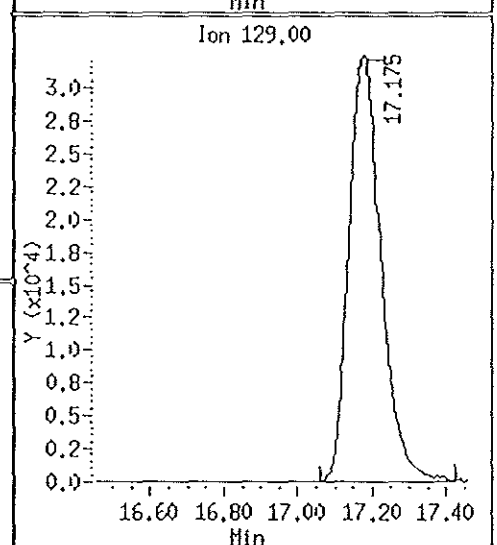


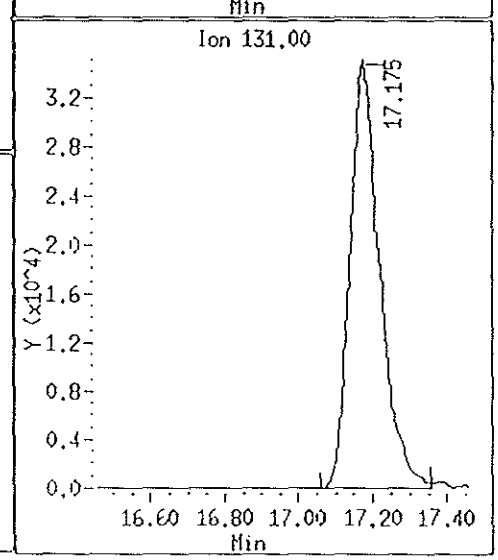






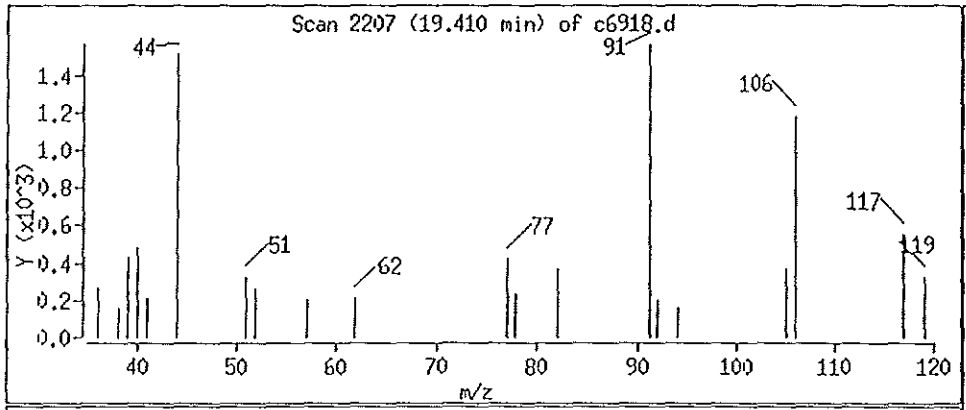


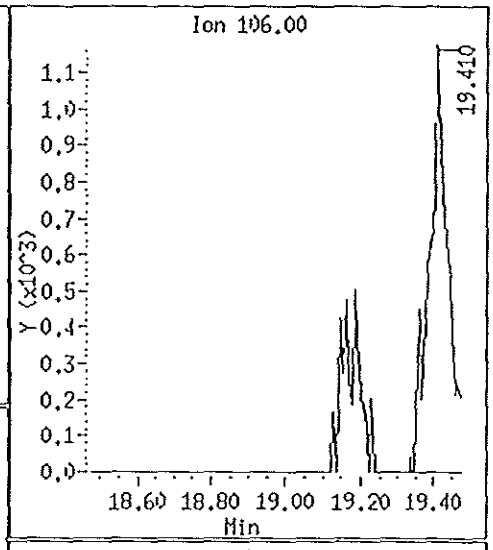


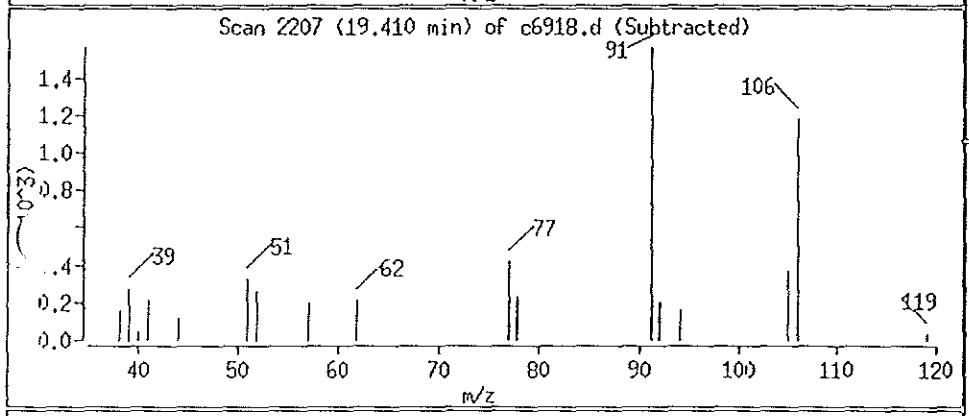


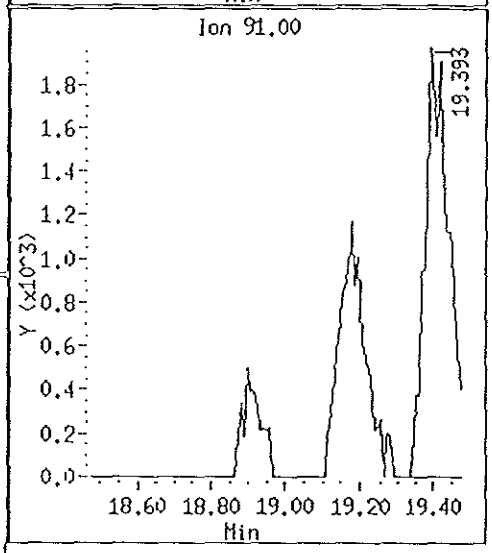
Data File: /chem/msc.i/c112095.b/c6918.d
Date : 20-NOV-95 16:33
`lient ID: 17418n clj78tw003 Instrument: msc.i
Sample Info: 17418n clj78tw003
Purge Volume: 1.0 Operator: jk
Column phase: J&W DB_624 Column diameter: 0.53

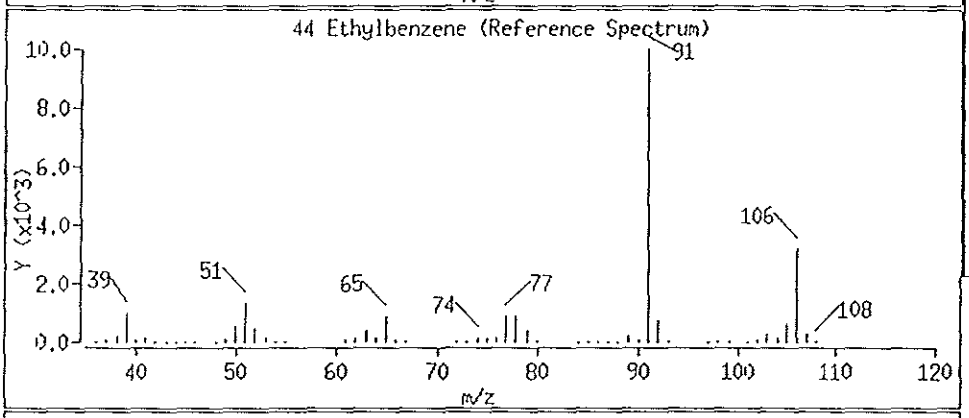
44 Ethylbenzene

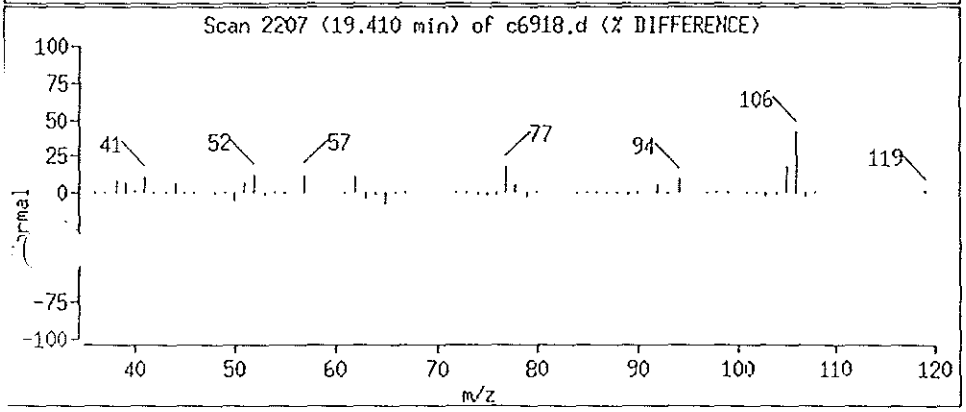












1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

- 0059 | CLJ78TW004

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Matrix: (soil/water) SOIL Lab Sample ID: JP0322V

Sample wt/vol: 5.53 (g/mL) G Lab File ID: C6921

Level: (low/med) LOW Date Received: 11/14/95

% Moisture: not dec. 16 Date Analyzed: 11/20/95

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ~~5000~~ N/A (uL) Soil Aliquot Volume: ~~5000~~ N/A (uL)

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl Chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene Chloride	34	B
67-64-1	Acetone	19	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	Methyl-iso-butyl ketone	11	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethylene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS - 0060

EPA SAMPLE NO.

CLJ78TW004

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Matrix: (soil/water) SOIL Lab Sample ID: JP0322V

Sample wt/vol: 5.53 (g/mL) G Lab File ID: C6921

Level: (low/med) LOW Date Received: 11/14/95

% Moisture: not dec. 16 Date Analyzed: 11/20/95

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ~~5000~~ N/A (uL) Soil Aliquot Volume: ~~5000~~ N/A (uL)

Number TICs found: 0

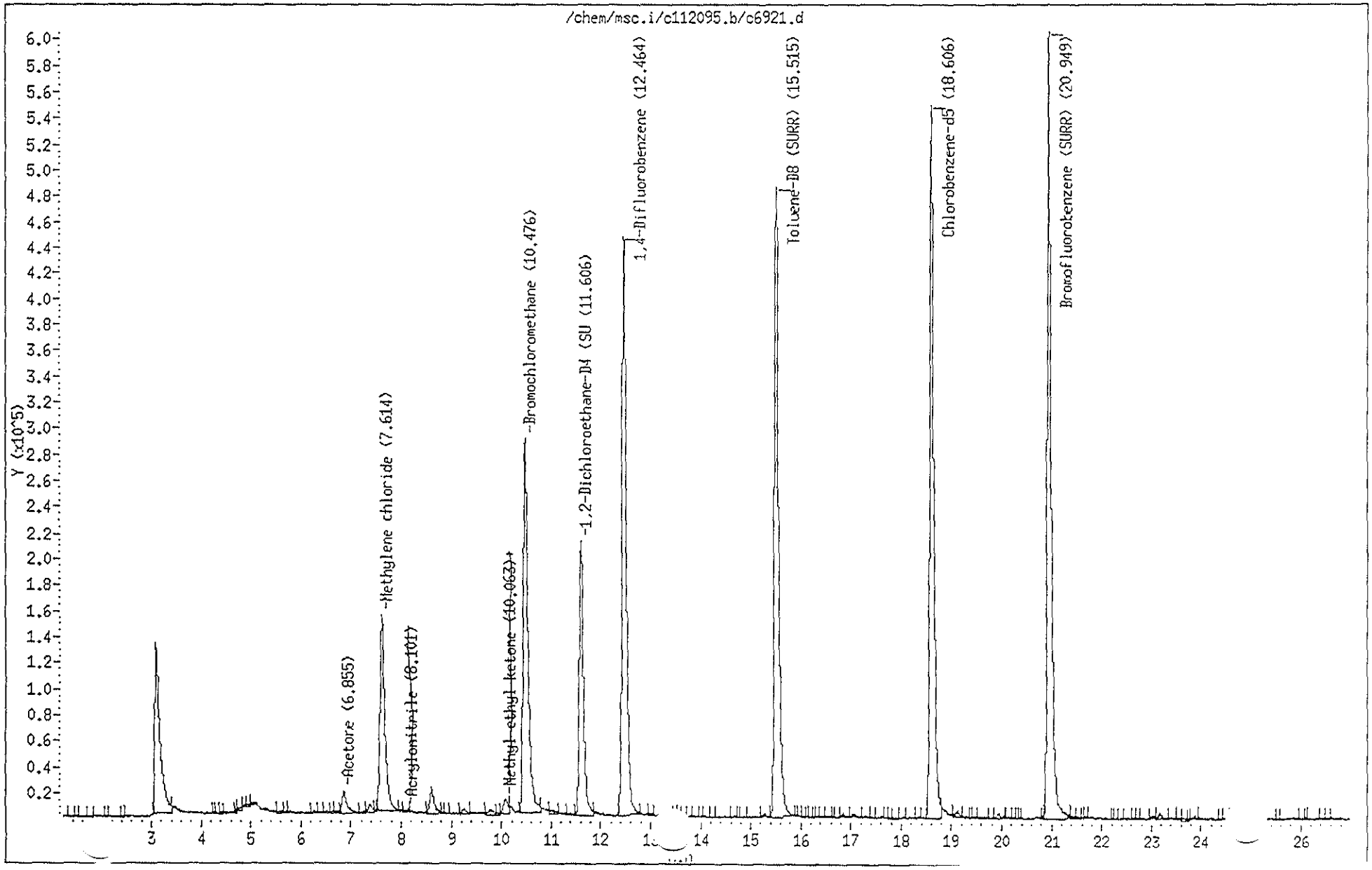
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: /chem/msc.i/c112095.b/c6921.d
Date : 20-NOV-95 18:45
Client ID: 17418n clj78tw004
Sample Info: 17418n clj78tw004
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i

Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c112095.b/c6921.d
Report Date: 21-Nov-1995 06:54

OHM Analytical Division

J Screen

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msc.i/c112095.b/c6921.d
Lab Smp Id: Client Smp ID: 17418n clj78tw004
Inj Date : 20-NOV-95 18:45
Operator : jk Inst ID: msc.i
Smp Info : 17418n clj78tw004
Misc Info : jp0322v,n2v4794,m2,5000,1,5.53,5.0,951120,
Comment :
Method : /chem/msc.i/c112095.b/110295_8240heatc.m
Meth Date : 21-Nov-1995 06:54 glenn Quant Type: ISTD
Cal Date : 20-NOV-95 08:08 Cal File: c6908.d
Als bottle: 14
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

MK 11/21/95

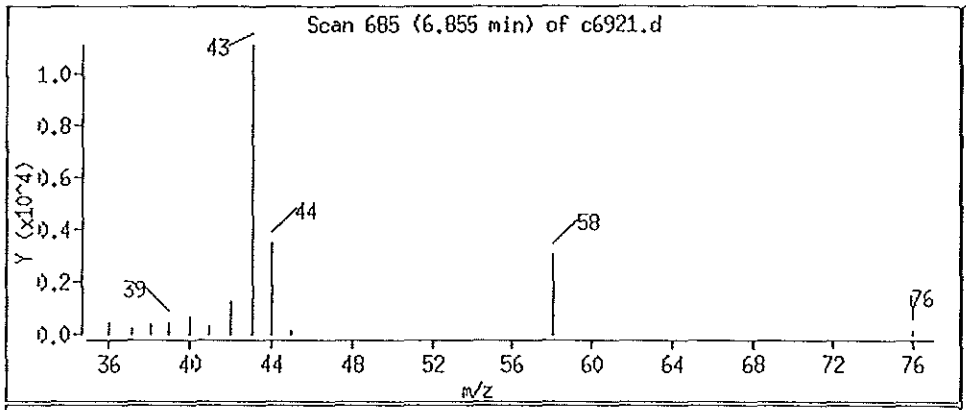
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
Acetone	43.00	6.855	6.965	(0.654)	73343	17.3	17.3
12 Methylene chloride	84.00	7.622	7.659	(0.728)	204696	31.4	31.4
13 Acrylonitrile	53.00	8.101	8.188	(0.773)	2187	0.696	~~0.696(a)~~ MS
18 Methyl ethyl ketone	72.00	10.063	10.205	(0.807)	6737	5.31	~~5.31~~ MS
19 Ethyl acetate	43.00	10.063	10.287	(0.961)	42134	1.09	~~1.09(Q)~~ MS
20 Bromochloromethane	128.00	10.476	10.577	(1.000)	213684	50.0	
24 1,2-Dichloroethane-D4 (SURR)	65.00	11.606	11.711	(1.108)	395157	43.1	43.1
27 1,4-Difluorobenzene	114.00	12.464	12.571	(1.000)	915014	50.0	
34 Toluene-D8 (SURR)	98.00	15.515	15.623	(0.834)	868194	48.8	48.8
42 Chlorobenzene-d5	117.00	18.606	18.710	(1.000)	750724	50.0	
49 Bromofluorobenzene (SURR)	95.00	20.949	21.053	(1.126)	648581	47.4	47.4

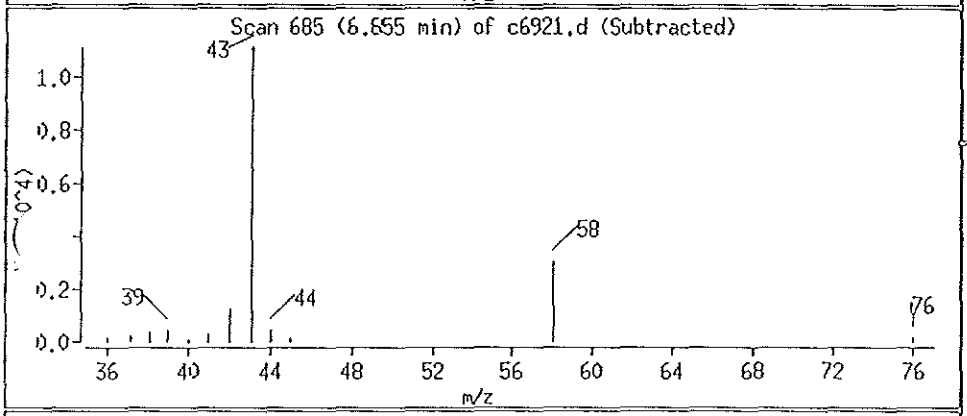
QC Flag Legend

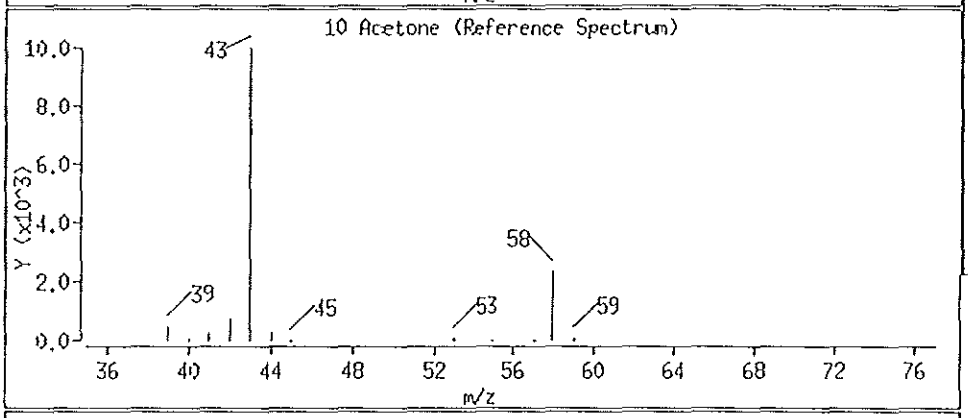
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

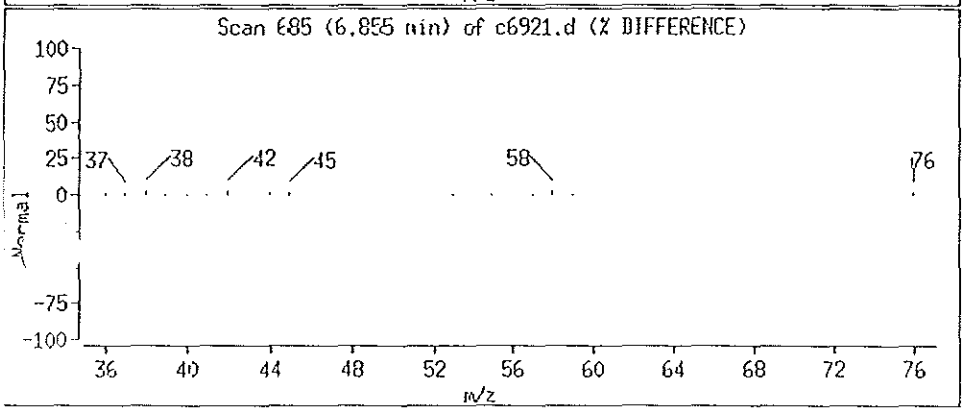
Data File: /chem/msc.i/c112095.b/c6921.d
Date : 20-NOV-95 18:45
Client ID: 17418n clj78tw004 Instrument: msc.i
Sample Info: 17418n clj78tw004
Purge Volume: 1.0 Operator: jk
Column phase: J&W DB_624 Column diameter: 0.53

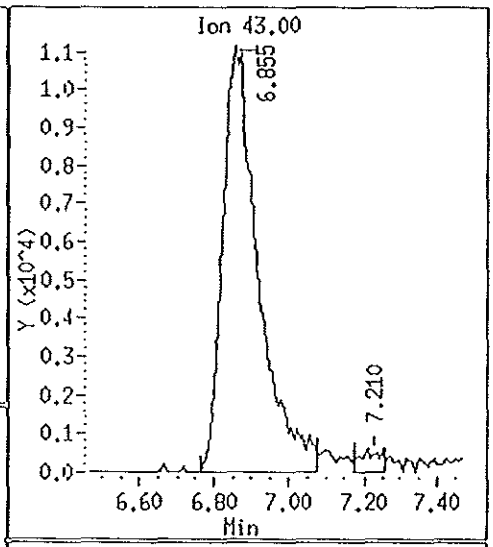
10 Acetone

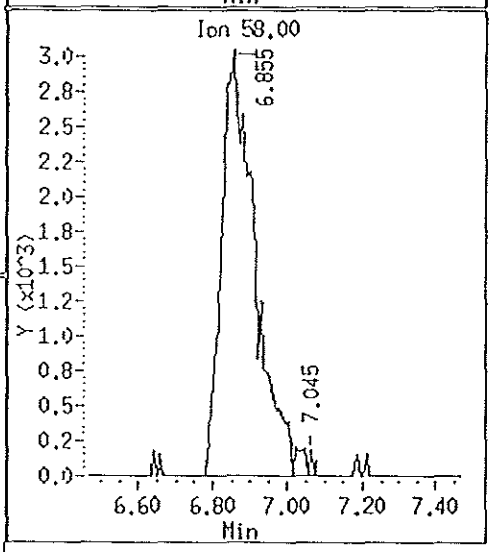






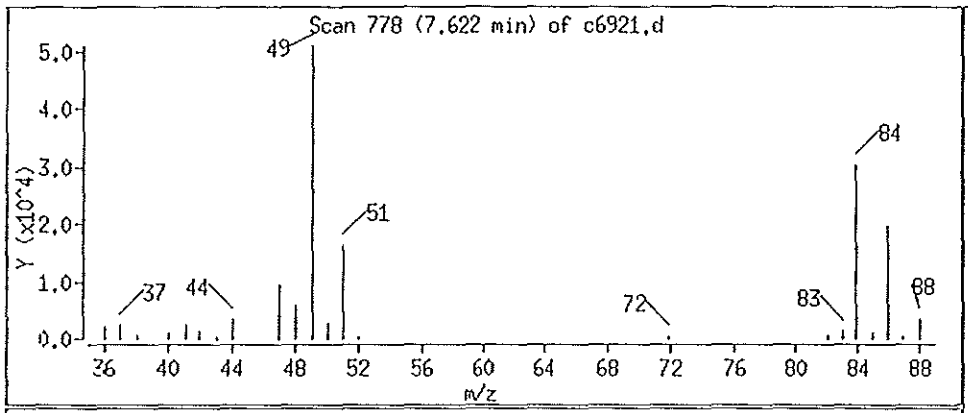


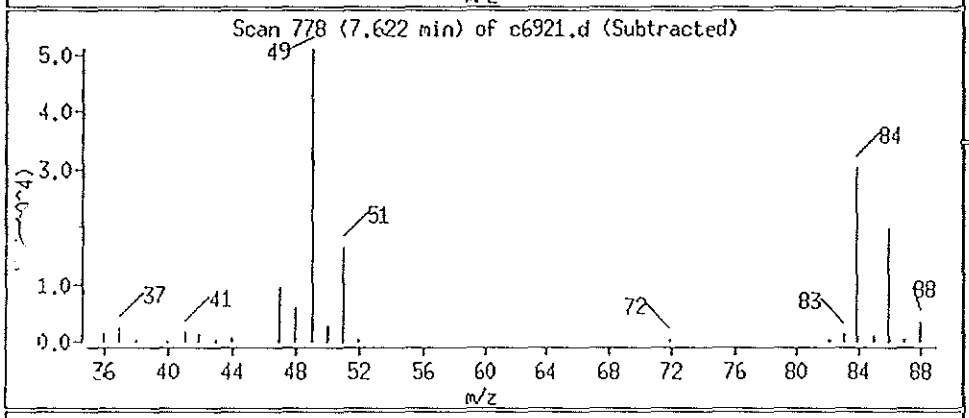


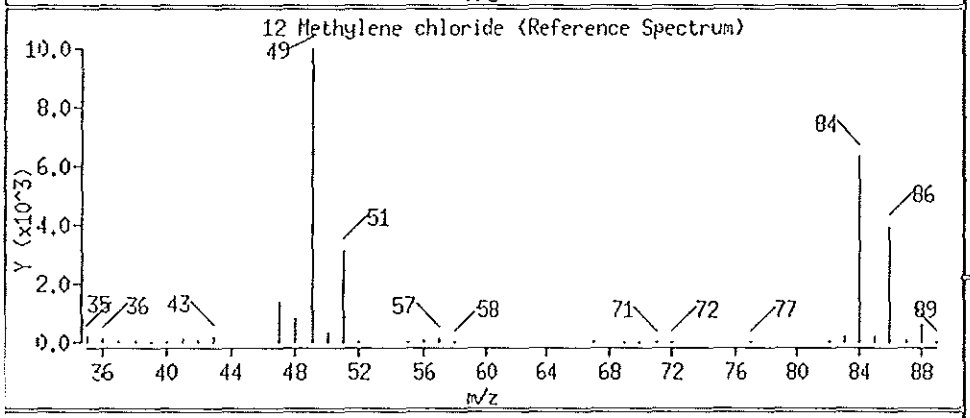


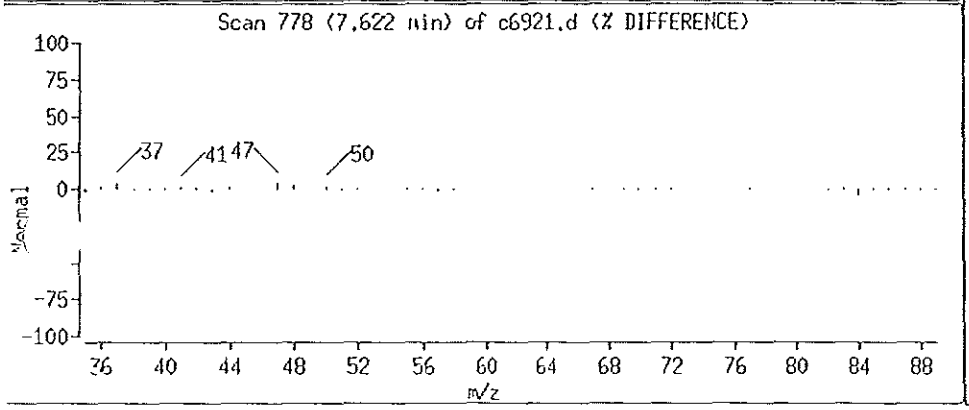
Data File: /chem/msc.i/c112095.b/c6921.d
Date : 20-NOV-95 18:45
lient ID: 17418n clj78tw004 Instrument: msc.i
Sample Info: 17418n clj78tw004
Purge Volume: 1.0 Operator: jk
Column phase: J&W DB_624 Column diameter: 0.53

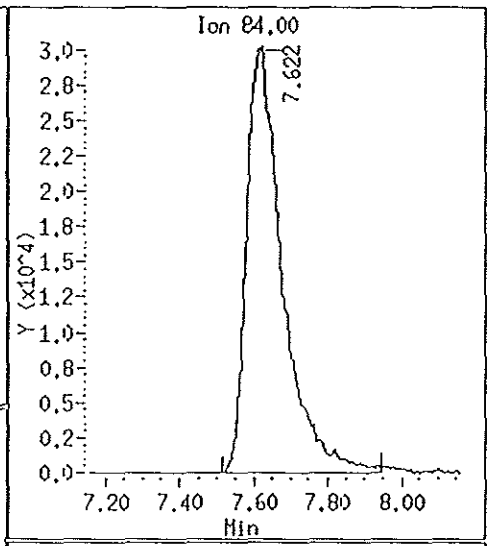
12 Methylene chloride

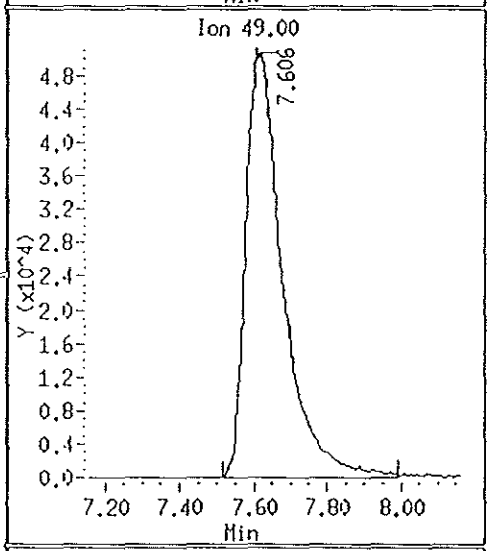


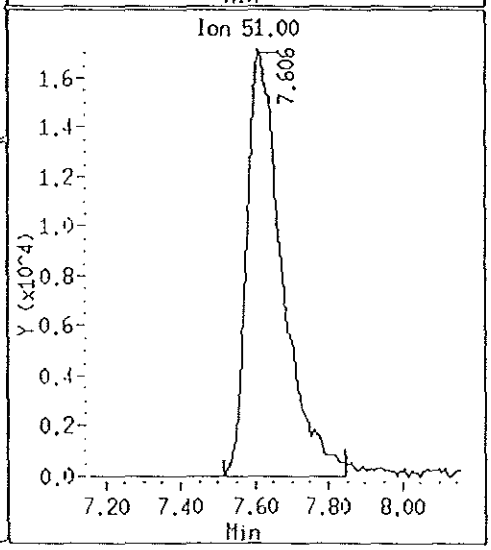












1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

0065 ~~0063~~

EPA SAMPLE NO.

CLJ78TW01D

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Matrix: (soil/water) SOIL Lab Sample ID: JP0319V

Sample wt/vol: 5.03 (g/mL) G Lab File ID: C6919

Level: (low/med) LOW Date Received: 11/14/95

% Moisture: not dec. 18 Date Analyzed: 11/20/95

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ~~5000~~ N/A (uL) Soil Aliquot Volume: ~~5000~~ N/A (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	51	B
67-64-1	Acetone	35	
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	6	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
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	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	.8	J
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	2	BJ
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	1	J
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0066 CLJ78TW01D

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Matrix: (soil/water) SOIL Lab Sample ID: JP0319V

Sample wt/vol: 5.03 (g/mL) G Lab File ID: C6919

Level: (low/med) LOW Date Received: 11/14/95

% Moisture: not dec. 18 Date Analyzed: 11/20/95

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ~~5000~~ N/A (uL) Soil Aliquot Volume: ~~5000~~ N/A (uL)

Number TICs found: 0

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

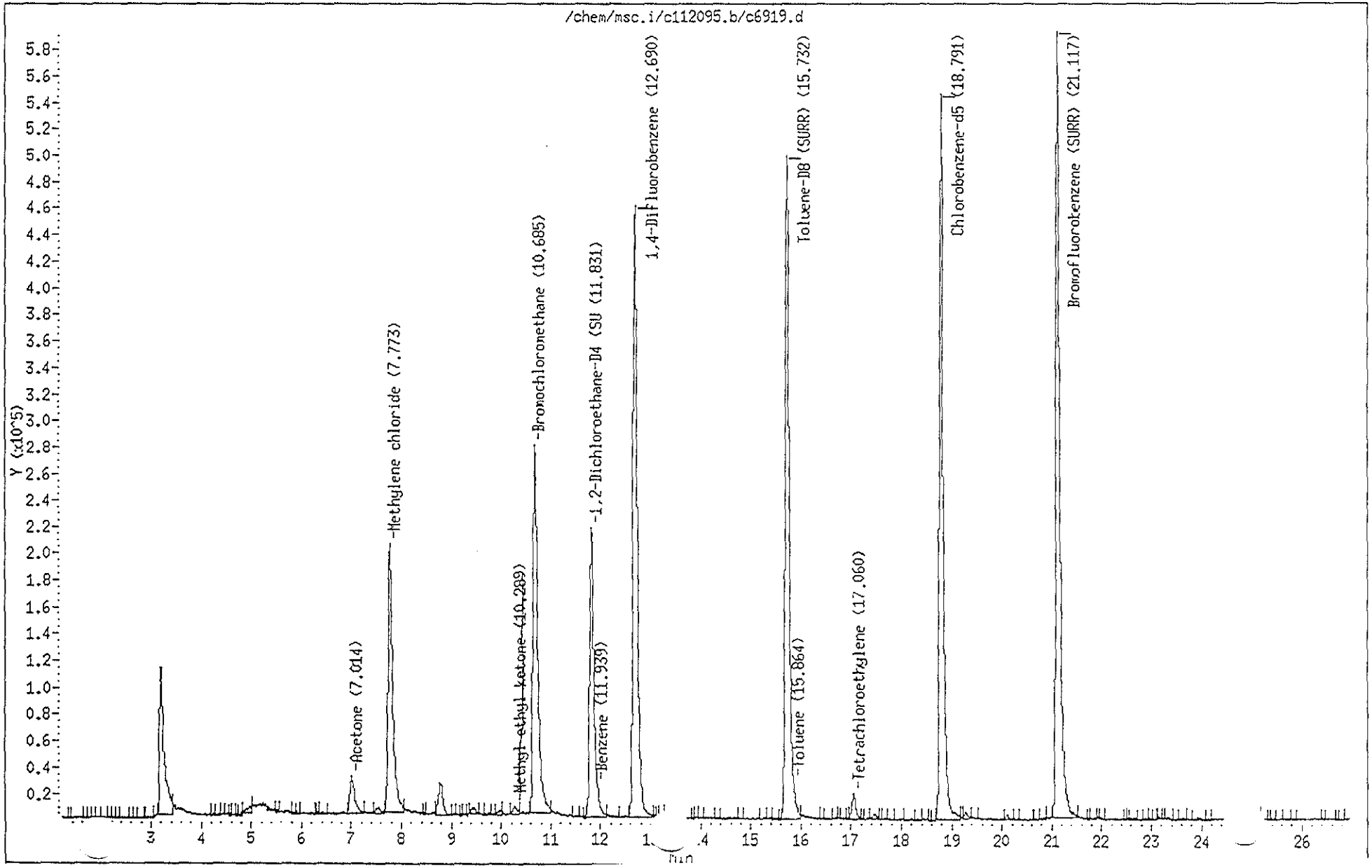
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0067

Data File: /chem/msc.i/c112095.b/c6919.d
Date : 20-NOV-95 17:11
Client ID: 17418n 001d 12-4-95 KS
Sample Info: 17418n clj78tw001d
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i

Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c112095.b/c6919.d
Report Date: 20-Nov-1995 17:45

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msc.i/c112095.b/c6919.d
Lab Smp Id: Client Smp ID: 17418n 001d
Inj Date : 20-NOV-95 17:11
Operator : jk Inst ID: msc.i
Smp Info : 17418n clj78tw001d
Misc Info : jp0319v,n2v4794,m2,5000,1,5.03,5.0,951120,
Comment :
Method : /chem/msc.i/c112095.b/110295_8240heatc.m
Meth Date : 20-Nov-1995 16:33 glenn Quant Type: ISTD
Cal Date : 20-NOV-95 08:08 Cal File: c6908.d
Als bottle: 12
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	Acetone	43.00	7.014	6.965	(0.656)	118021	29.1	29.1
	12 Methylene chloride	84.00	7.773	7.659	(0.728)	262159	42.1	42.1
	18 Methyl ethyl ketone	72.00	10.289	10.205	(0.811)	3549	2.79	~~2.79~~
*	20 Bromochloromethane	128.00	10.685	10.577	(1.000)	203998	50.0	
$	24 1,2-Dichloroethane-D4 (SURR)	65.00	11.823	11.711	(1.107)	403526	46.1	46.1
	25 Benzene	78.00	11.939	11.818	(0.941)	11396	0.631	0.631(a)
*	27 1,4-Difluorobenzene	114.00	12.690	12.571	(1.000)	917654	50.0	
$	34 Toluene-D8 (SURR)	98.00	15.732	15.623	(0.837)	876076	51.1	51.1
	35 Toluene	92.00	15.864	15.756	(0.844)	9679	0.786	0.786(a)
	38 Tetrachloroethylene	164.00	17.068	16.956	(0.908)	13151	1.98	1.98
*	42 Chlorobenzene-d5	117.00	18.791	18.710	(1.000)	724046	50.0	
$	49 Bromofluorobenzene (SURR)	95.00	21.117	21.053	(1.124)	630912	47.8	47.8

QC Flag Legend

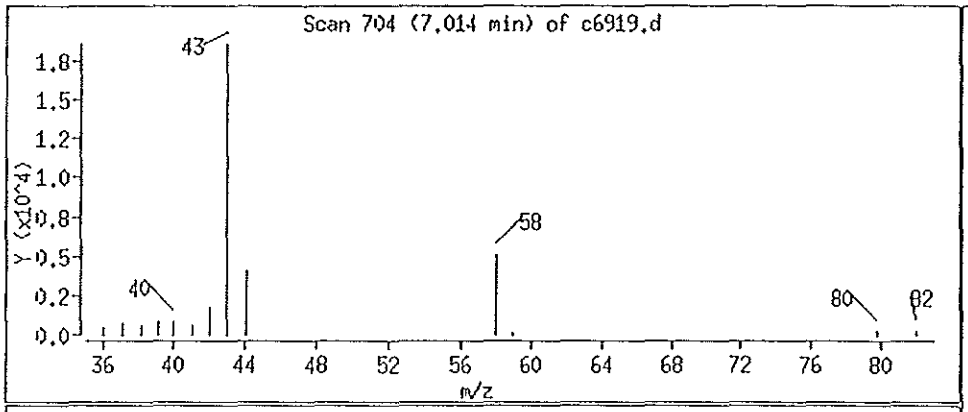
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

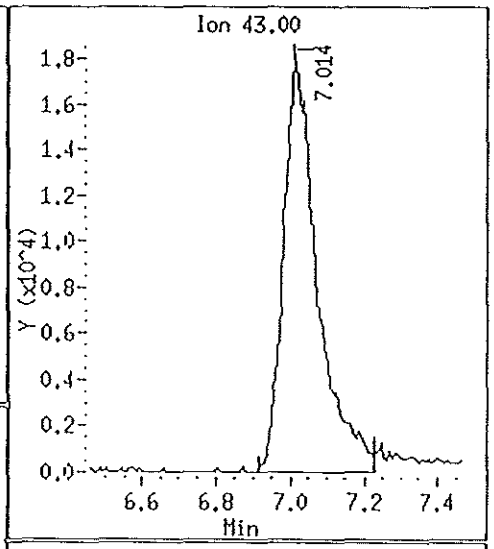
Data File: /chem/msc.i/c112095.b/c6919.d
Date : 20-NOV-95 17:11
Client ID: 17418n Q01d
Sample Info: 17418n clj78tw Q01d
Purge Volume: 1.0
Column phase: J&W DB_624

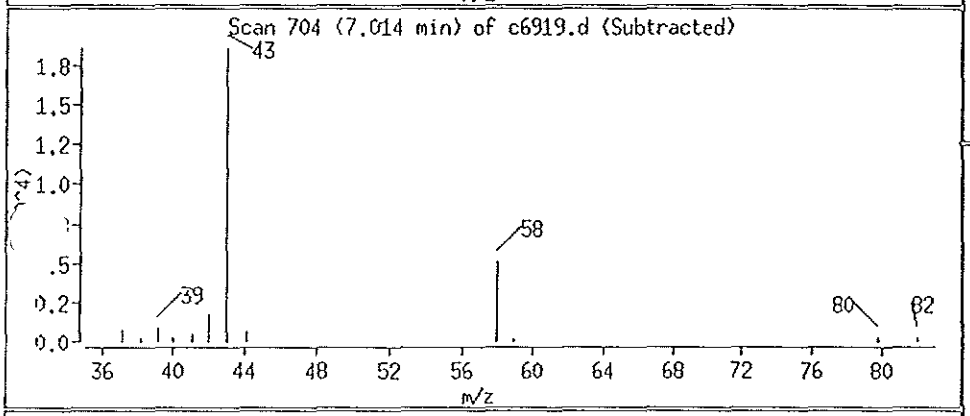
12-4-95
KB

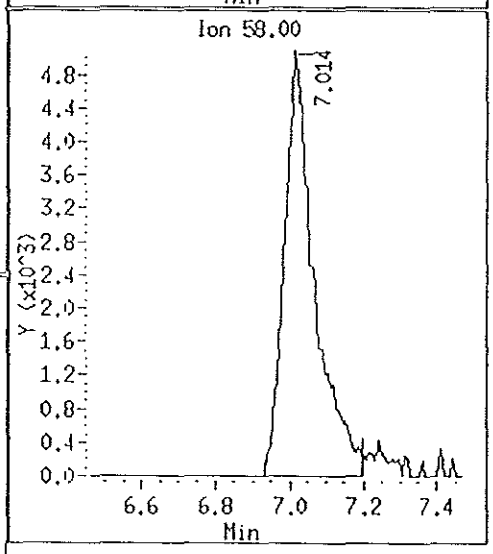
Instrument: msc.i
Operator: jk
Column diameter: 0.53

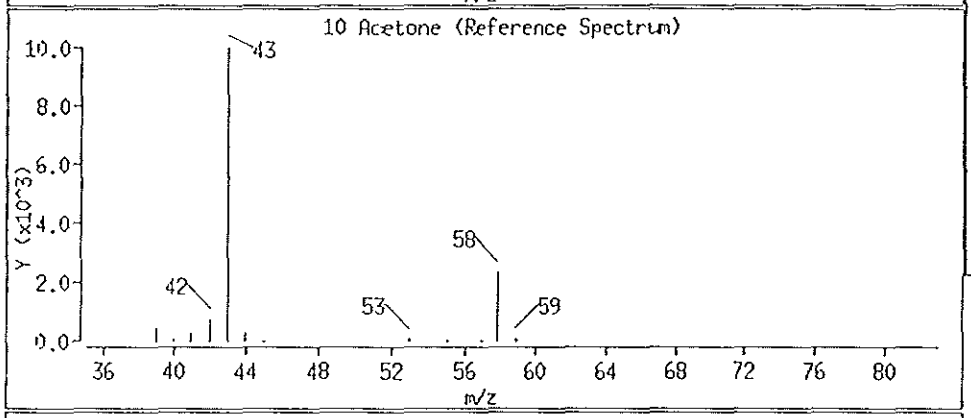
10 Acetone

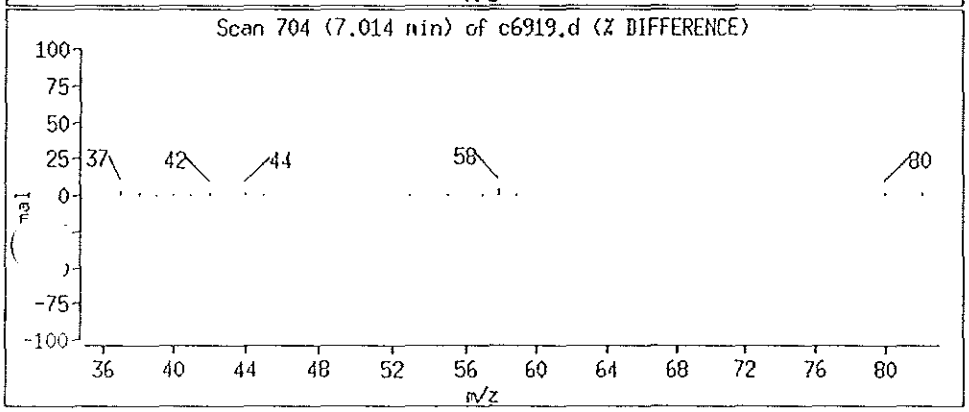












Data File: /chem/msc.i/c112095.b/c6919.d

Date : 20-NOV-95 17:11

Client ID: 17418n Q01d

Sample Info: 17418n clj78tw Q01d

12-4-95 MB

Purge Volume: 1.0

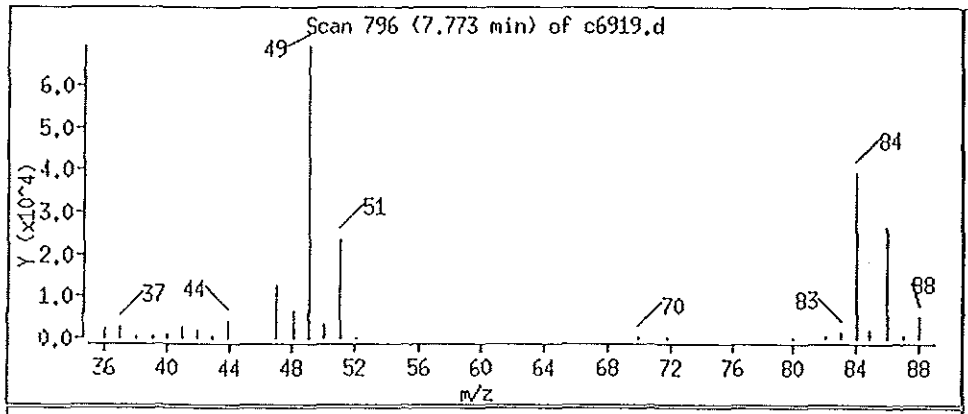
Column phase: J&W DB_624

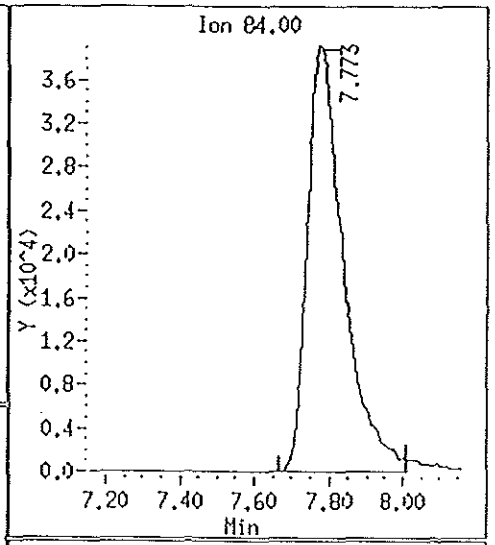
Instrument: msc.i

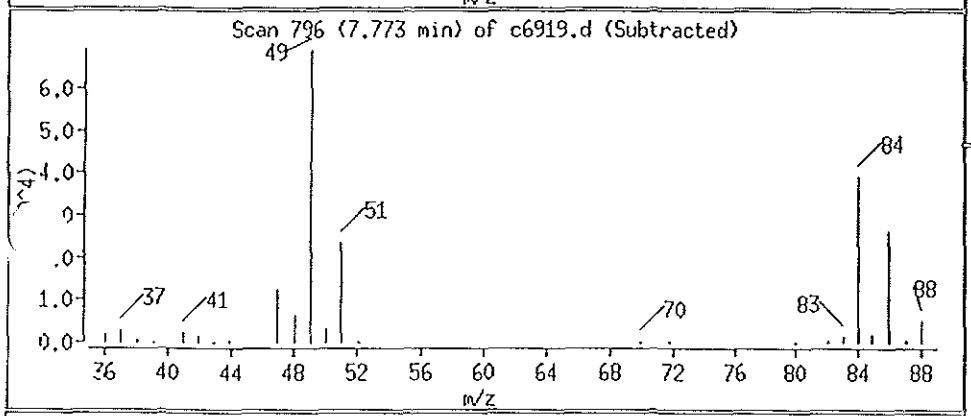
Operator: jk

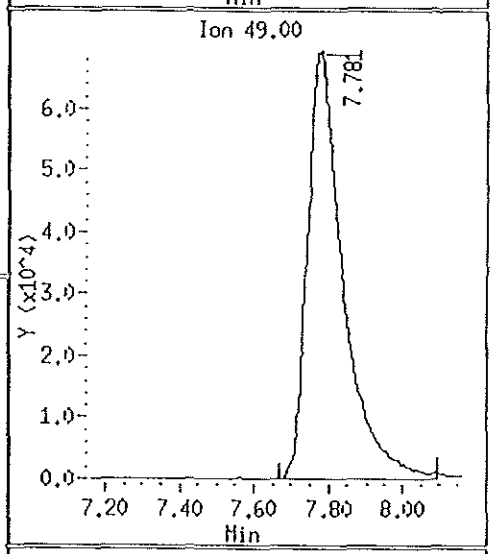
Column diameter: 0.53

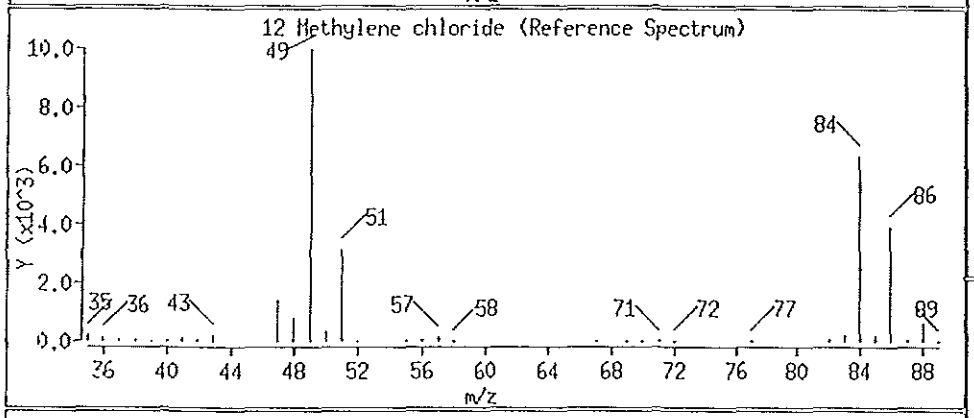
12 Methylene chloride

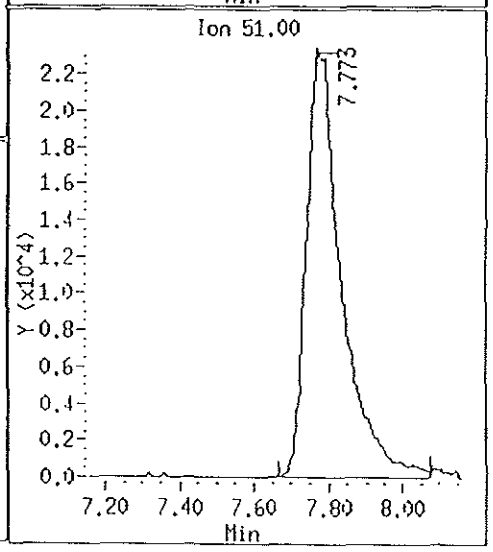


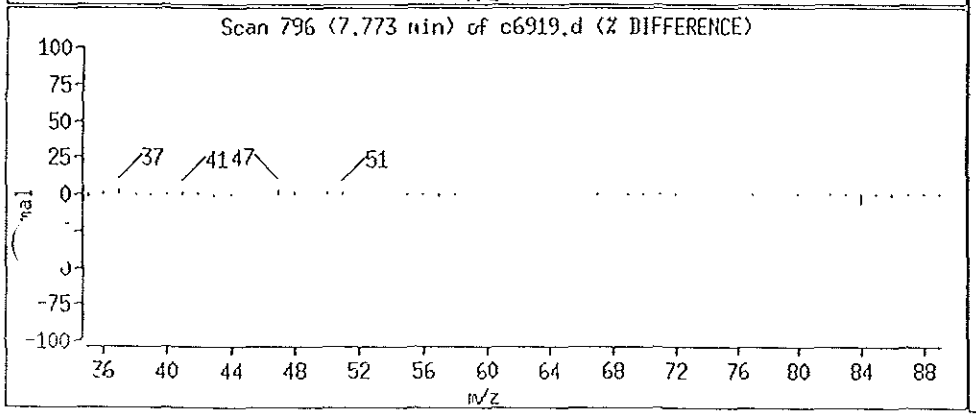










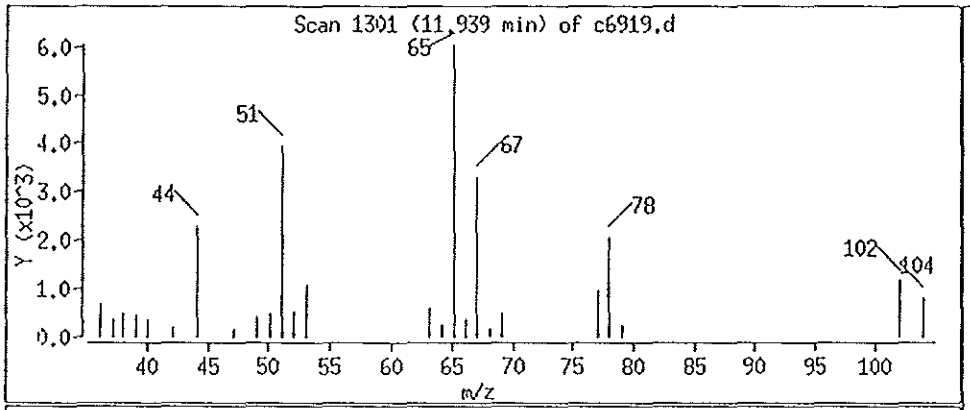


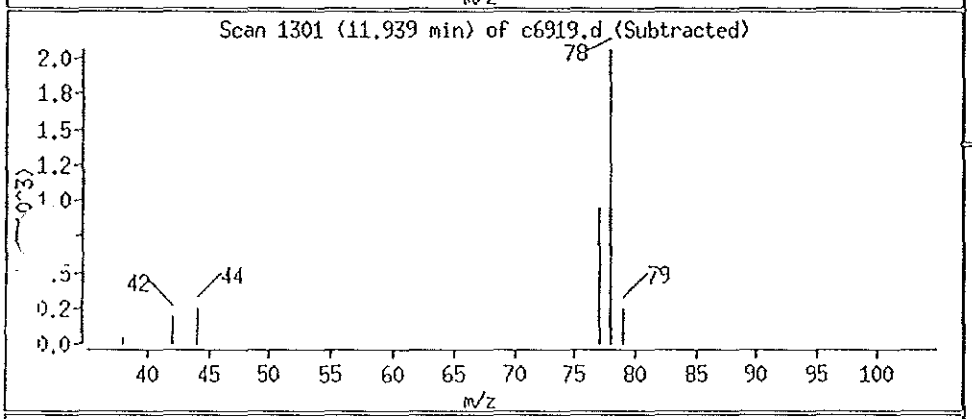
Data File: /chem/msc.i/c112095.b/c6919.d
Date : 20-NOV-95 17:11
lient ID: 17418n Q01d
Sample Info: 17418n clj78tw0Q1d
Purge Volume: 1.0
Column phase: J&W DB_624

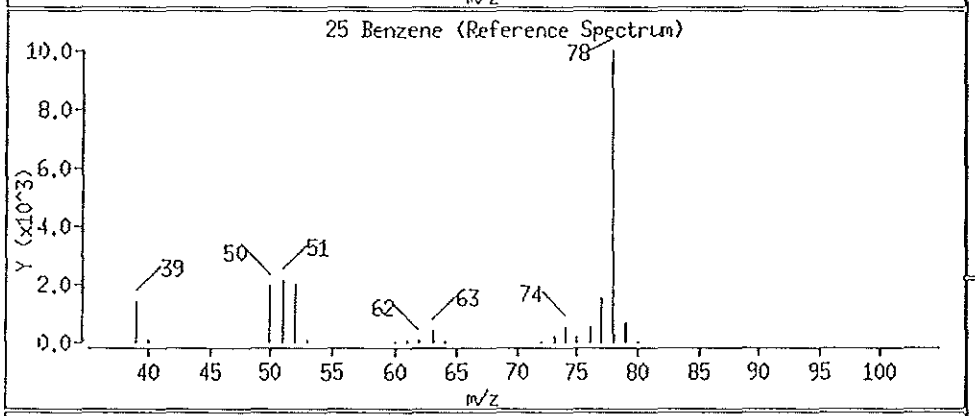
12-4-95

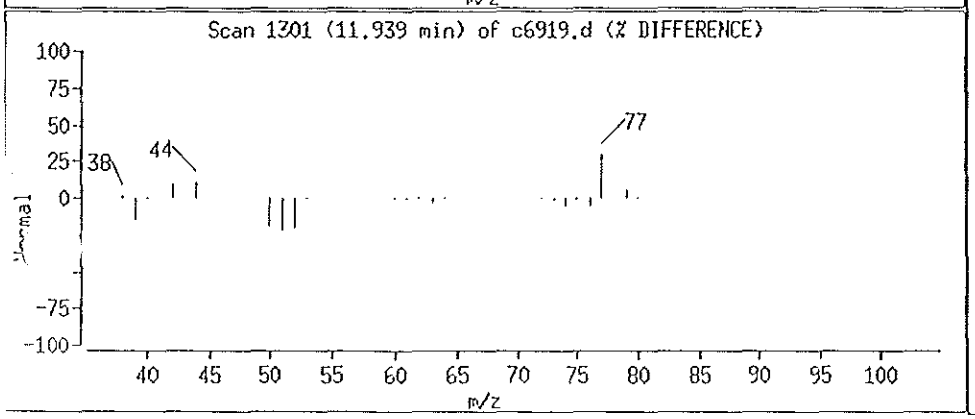
Instrument: msc.i
Operator: jk
Column diameter: 0.53

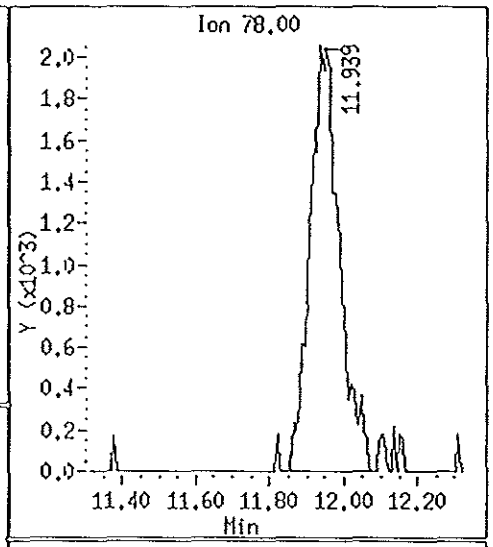
25 Benzene

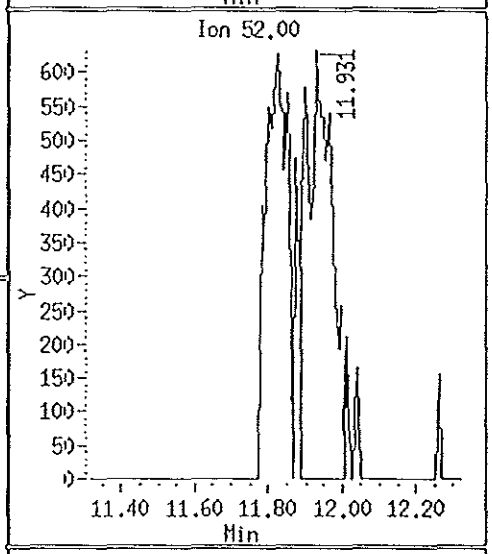


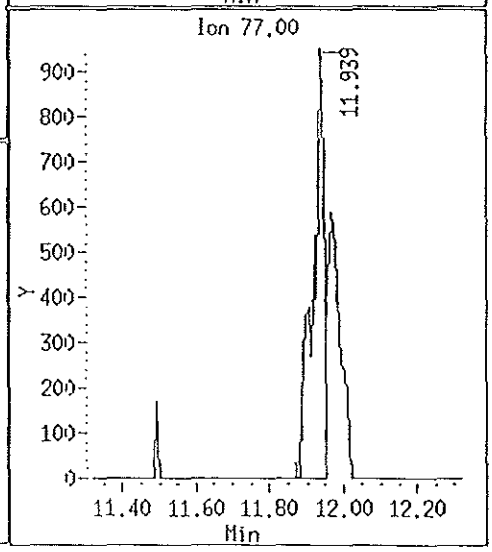










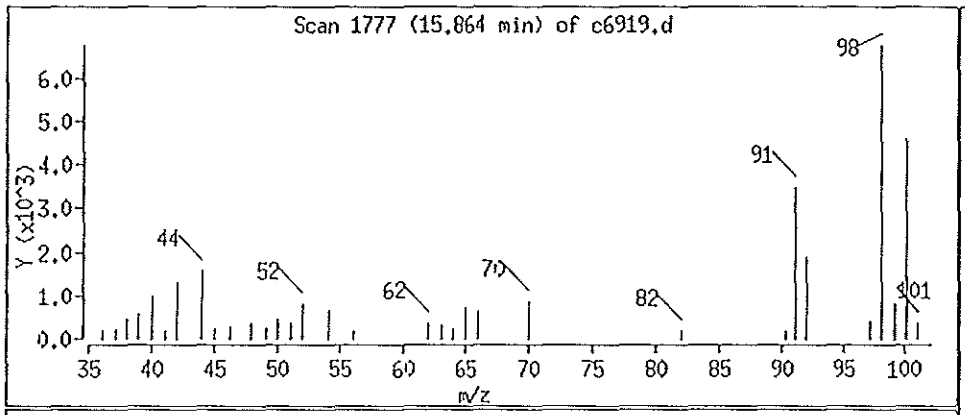


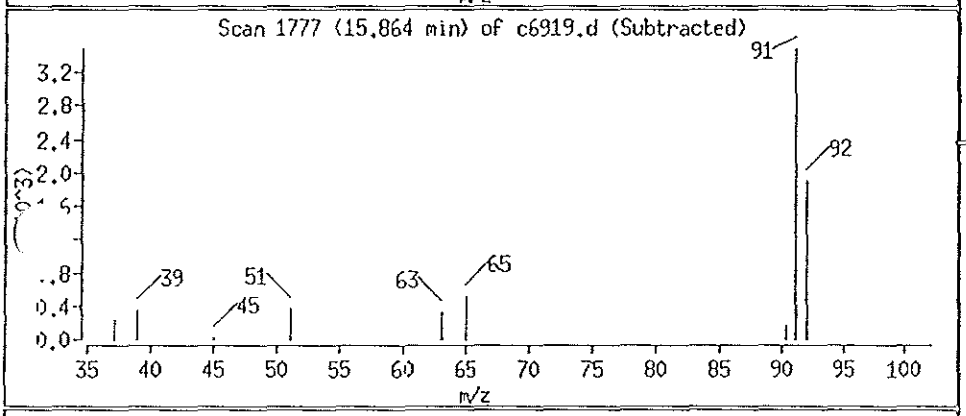
Data File: /chem/msc.i/c112095.b/c6919.d
Date : 20-NOV-95 17:11
lient ID: 17418n 001d
Sample Info: 17418n clj78tw001d
Purge Volume: 1.0
Column phase: J&W DB_624

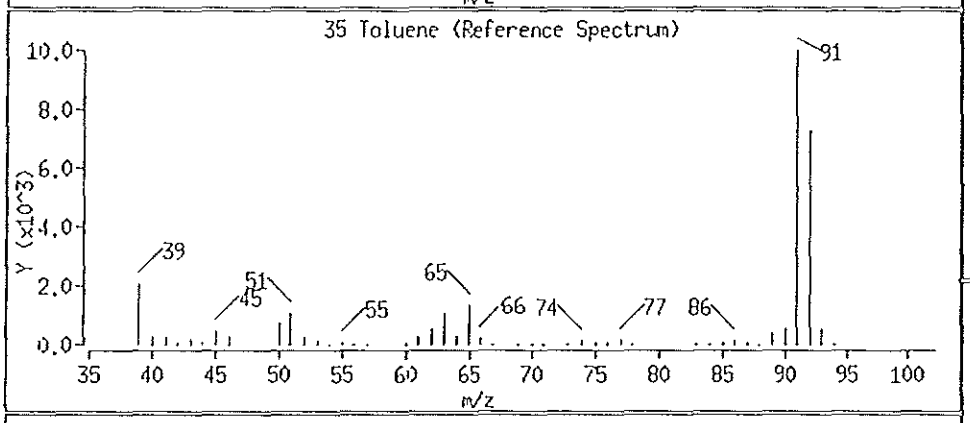
12-4-95
KB

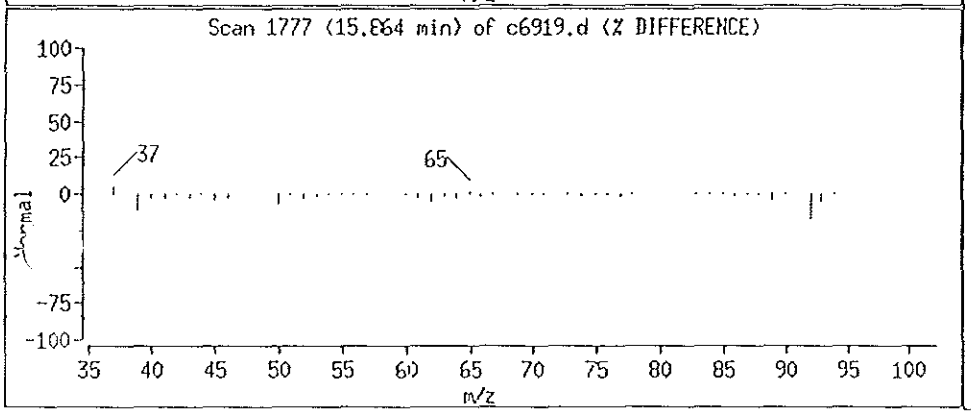
Instrument: msc.i
Operator: jk
Column diameter: 0.53

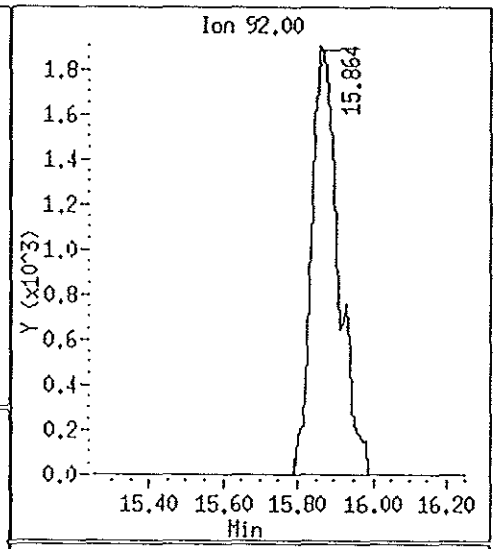
35 Toluene

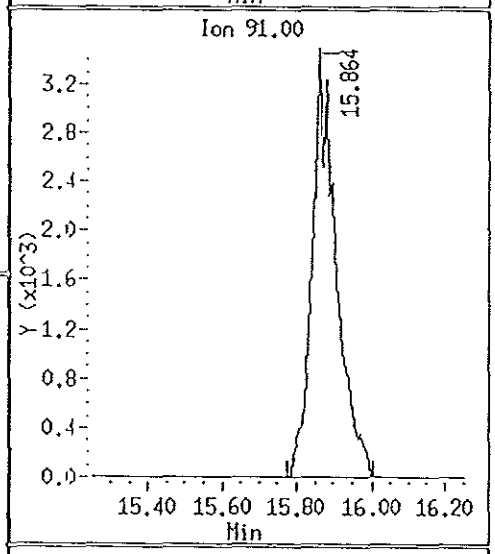


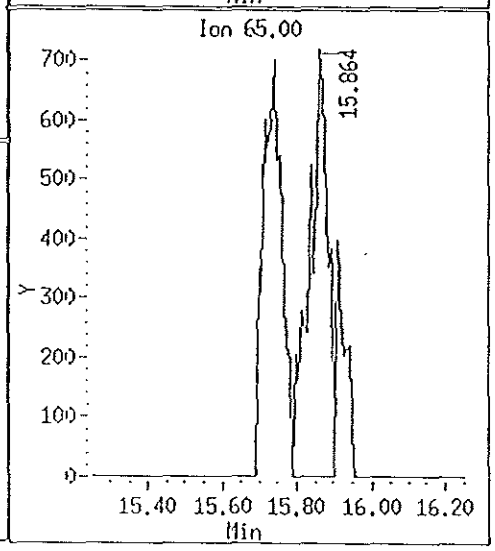










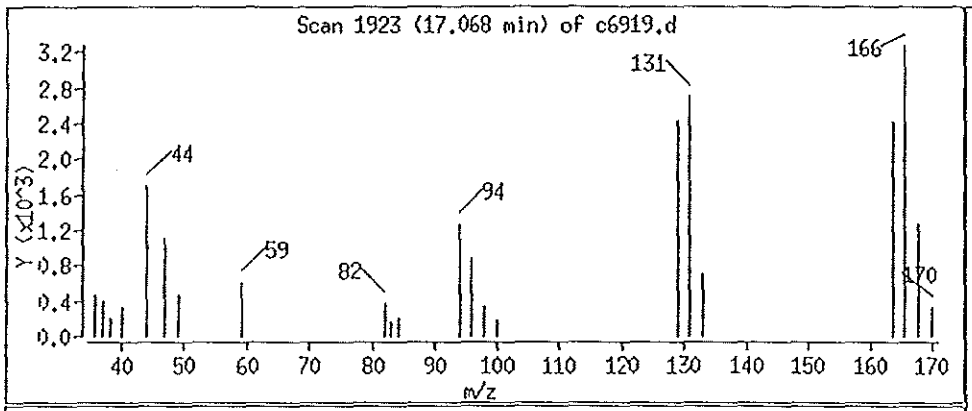


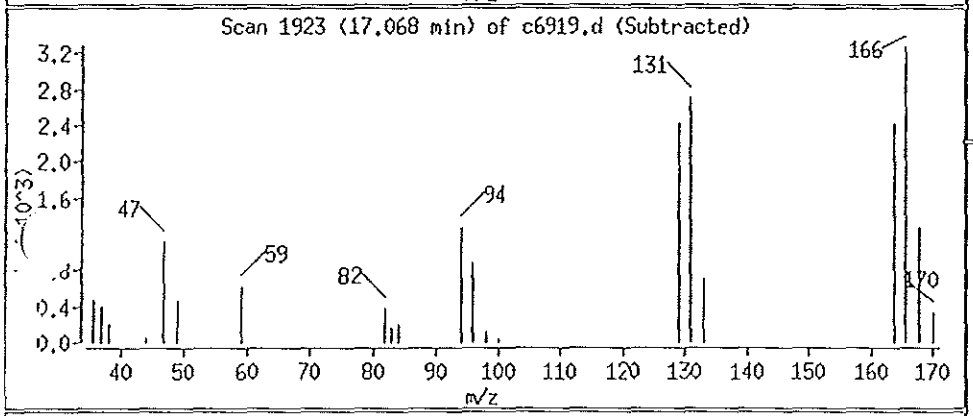
Data File: /chem/msc.i/c112095.b/c6919.d
Date : 20-NOV-95 17:11
Client ID: 17418n 001d
Sample Info: 17418n clj78tw001d
Purge Volume: 1.0
Column phase: J&W DB_624

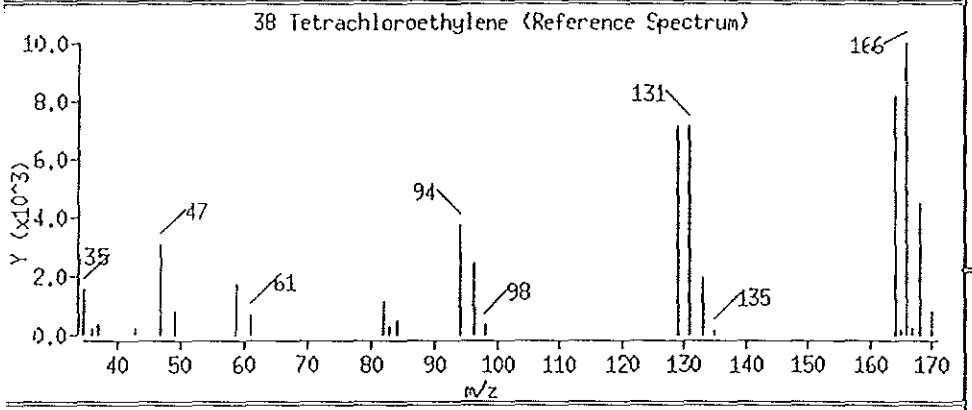
12-4-95
KB

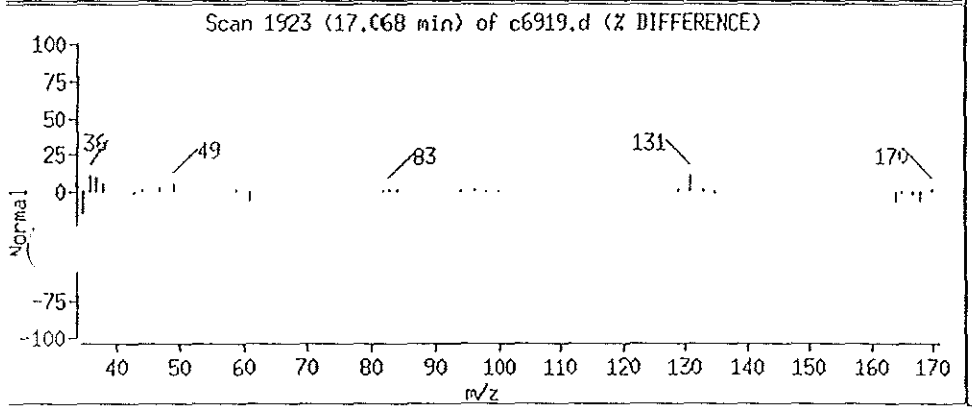
Instrument: msc.i
Operator: jk
Column diameter: 0.53

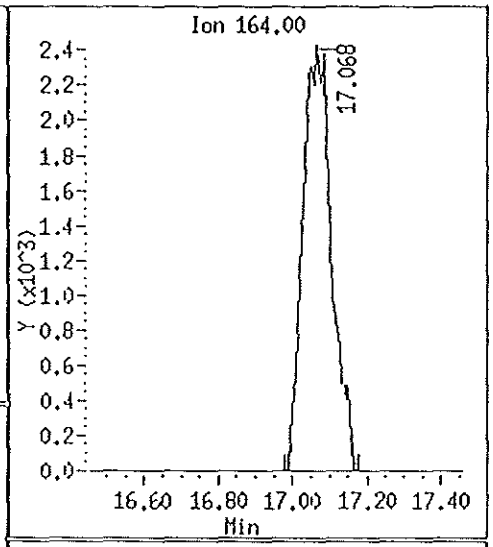
38 Tetrachloroethylene

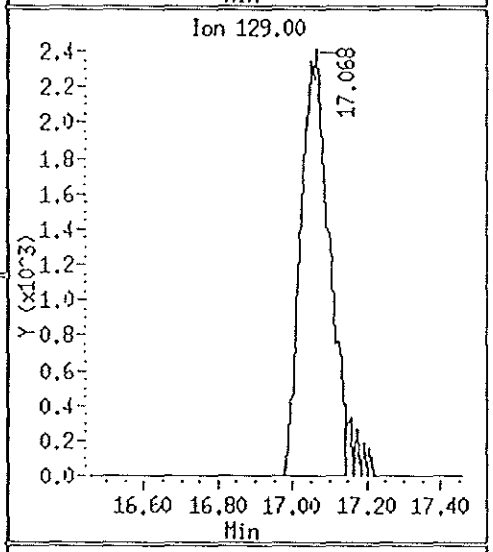


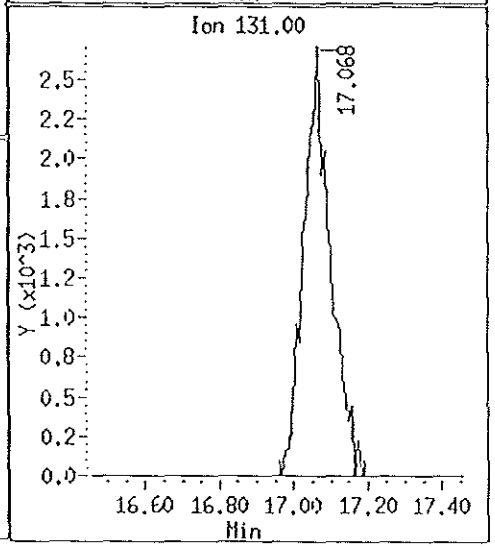












OHM Analytical Division

INITIAL CALIBRATION DATA

Start Cal Date : 02-NOV-95 08:13
End Cal Date : 02-NOV-95 10:35
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem/msc.i/c110295.b/110295_8240heatc.m
Cal Date : 02-Nov-1995 11:07
Curve Type : Average

NEESA - OK
MK

Calibration File Names:
Level 1: /chem/msc.i/c110295.b/c6498.d
Level 2: /chem/msc.i/c110295.b/c6499.d
Level 3: /chem/msc.i/c110295.b/c6500.d
Level 4: /chem/msc.i/c110295.b/c6501.d
Level 5: /chem/msc.i/c110295.b/c6502.d

Compound	10 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	___ RRF	% RSD
1 Methyl chloride	1.21709	1.38715	1.20534	1.21167	1.14334	1.23292	7.398
2 Vinyl chloride	1.22524	1.46427	1.32393	1.31286	1.25264	1.31579	7.039
3 Methyl bromide	1.10621	1.27532	1.09194	1.07352	0.98980	1.10736	9.408
4 Chloroethane	0.72550	0.84145	0.72221	0.70876	0.61526	0.72263	11.124
5 Trichlorofluoromethane	1.85190	2.12757	1.71387	1.72396	1.52158	1.78778	12.506
6 Ethyl ether	1.29653	1.36178	1.24004	1.20720	0.65742	1.15259	24.551
7 Acrolein	0.33305	0.36517	0.35615	0.35097	0.29834	0.34074	7.760
9 1,1,2-Trichlorotrifluoroethan	2.54197	3.09448	2.69235	2.70739	2.03186	2.61361	14.692
8 1,1-Dichloroethylene	1.12640	1.51278	1.26685	1.23375	1.13418	1.25479	12.485
10 Acetone	1.49712	1.17176	1.19806	0.92717	0.78730	1.11628	24.484
11 Carbon disulfide	3.01450	3.74107	3.31522	3.43671	3.01106	3.30371	9.310
12 Methylene chloride	1.98512	1.83846	1.49766	1.46333	1.31304	1.61952	17.321
13 Acrylonitrile	0.68274	0.73059	0.70125	0.71433	0.65840	0.69746	4.016
14 1,2-Trans-dichloroethylene	1.44295	1.69928	1.45538	1.44931	1.25559	1.46050	10.797
15 Tert-Butyl Methyl Ether	4.12045	4.24643	3.92512	4.00481	3.45889	3.95114	7.611
16 1,1-Dichloroethane	3.05263	3.38001	3.09780	3.07730	2.77010	3.07557	7.031
17 1,2-cis-Dichloroethylene	1.49614	1.70348	1.51019	1.47030	1.37970	1.51196	7.837
18 Methyl ethyl ketone	0.07663	0.07403	0.07232	0.06398	0.05856	0.06910	10.943
19 Ethyl acetate	7.27265	7.97309	8.70229	8.57389	7.65681	8.03574	7.528
21 Chloroform	2.96131	3.27121	2.97991	2.98687	2.69962	2.97978	6.791
22 1,1,1-Trichloroethane	0.48960	0.55396	0.51011	0.51103	0.45538	0.50402	7.122
23 Carbon tetrachloride	0.44053	0.50642	0.44864	0.43327	0.38779	0.44333	9.572
25 Benzene	0.99136	1.05761	0.95816	0.96419	0.87947	0.97016	6.620
26 1,2-Dichloroethane	2.45029	2.62436	2.44013	2.43574	2.19172	2.42845	6.349
Trichloroethylene	0.39384	0.43063	0.39737	0.38767	0.35501	0.39290	6.862
1,2-Dichloropropane	0.48154	0.52662	0.48575	0.48688	0.44802	0.48576	5.742
30 Dichlorobromomethane	0.60551	0.70809	0.65254	0.67449	0.63683	0.65549	5.900

OHM Analytical Division

INITIAL CALIBRATION DATA

Start Cal Date : 02-NOV-95 08:13
End Cal Date : 02-NOV-95 10:35
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem/msc.i/c110295.b/110295_8240heatc.m
Cal Date : 02-Nov-1995 11:07
Curve Type : Average

Compound	10 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	RRF	% RSD
31 2-Chloroethylvinyl ether	0.05843	0.05237	0.07006	0.07532	0.09563	0.07036	23.881
32 cis-1,3-Dichloropropylene	0.58802	0.64460	0.61124	0.62233	0.56453	0.60614	5.103
33 Methyl-iso-butyl ketone	1.07146	1.16585	1.16787	1.20002	1.12470	1.14598	4.319
35 Toluene	0.83328	0.92783	0.84286	0.83960	0.74722	0.83816	7.630
36 trans-1,3-Dichloropropylene	0.44296	0.50062	0.47447	0.49129	0.44766	0.47140	5.441
37 1,1,2-Trichloroethane	0.38901	0.42854	0.39499	0.39437	0.35982	0.39335	6.208
Tetrachloroethylene	0.44452	0.50746	0.44986	0.44341	0.42395	0.45384	6.950
39 2-Hexanone	0.81435	0.85182	0.88632	0.89284	0.82301	0.85367	4.178
40 Chlorodibromomethane	0.47878	0.55675	0.52044	0.53397	0.51106	0.52120	5.661
41 Ethylene dibromide	0.72627	0.81843	0.76629	0.79047	0.75930	0.77215	4.478
43 Chlorobenzene	0.99124	1.11704	1.00287	0.97257	0.91493	0.99973	7.380
44 Ethylbenzene	0.48098	0.53996	0.49492	0.48730	0.44209	0.48905	7.156
45 m+p-Xylenes	0.59409	0.66925	0.60793	0.57364	0.54060	0.59810	7.869
46 o-Xylene	0.58880	0.65629	0.59197	0.58019	0.54235	0.59192	6.939
47 Styrene	0.89113	1.06214	0.97532	0.98102	0.90930	0.96378	7.028
48 Bromoform	0.38532	0.45913	0.45267	0.48363	0.46607	0.44936	8.372
50 1,1,2,2-Tetrachloroethane	1.07191	1.17089	1.09813	1.07292	1.03322	1.08941	4.692
51 1,3-Dichlorobenzene	0.86169	0.96790	0.85521	0.84238	0.83428	0.87229	6.249
52 1,4-Dichlorobenzene	0.99599	1.07142	0.97902	0.92757	0.90921	0.97664	6.540
53 1,2-Dichlorobenzene	0.85942	0.92457	0.82989	0.79746	0.79099	0.84047	6.474
$ 24 1,2-Dichloroethane-D4 (SURR)	2.08118	2.15959	1.96988	1.93089	1.77822	1.99395	7.195
$ 34 Toluene-D8 (SURR)	1.12119	1.27369	1.15605	1.15254	1.03139	1.14697	7.575
$ 49 Bromofluorobenzene (SURR)	0.90176	0.97207	0.87905	0.82297	0.80168	0.87551	7.712

Data File: /chem/msc.i/c112095.b/c6908.d
Report Date: 20-Nov-1995 09:11

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msc.i
Lab File ID: c6908.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 20-NOV-95 08:08
Init. Calibration Date(s): 11/02/95 11/02/95
Init. Calibration Times: 08:13 10:35
Method File: /chem/msc.i/c112095.b/110295_8240heatc.

NEISA-OK

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D	
	1 Methyl chloride	1.233	1.311	0.300	6.4	25.0	
	2 Vinyl chloride	1.316	1.383	0.010	5.1	25.0	
	3 Methyl bromide	1.107	1.204	0.010	8.7	25.0	
	4 Chloroethane	0.723	0.767	0.010	6.2	25.0	
	5 Trichlorofluoromethane	1.788	1.815	0.010	1.5	25.0	
	6 Ethyl ether	1.153	1.344	0.010	16.6	25.0	
	7 Acrolein	0.341	0.332	0.010	2.5	25.0	
	9 1,1,2-Trichlorotrifluoroetha	2.614	2.658	0.010	1.7	25.0	
	8 1,1-Dichloroethylene	1.255	1.250	0.010	0.4	25.0	
	10 Acetone	1.116	0.994	0.010	11.0	25.0	
	11 Carbon disulfide	3.304	2.941	0.010	11.0	25.0	
	12 Methylene chloride	1.620	1.528	0.010	5.7	25.0	
	13 Acrylonitrile	0.697	0.735	0.010	5.4	25.0	
	14 1,2-Trans-dichloroethylene	1.461	1.427	0.010	2.3	25.0	
	15 Tert-Butyl Methyl Ether	3.951	3.999	0.010	1.2	25.0	
	16 1,1-Dichloroethane	3.076	3.135	0.300	1.9	25.0	
	17 1,2-cis-Dichloroethylene	1.512	1.530	0.010	1.2	25.0	
	18 Methyl ethyl ketone	0.069	0.069	0.010	0.3	25.0	
	19 Ethyl acetate	8.036	9.064	0.010	12.8	25.0	
	21 Chloroform	2.980	3.038	0.010	2.0	25.0	
	22 1,1,1-Trichloroethane	0.504	0.477	0.010	5.4	25.0	
	23 Carbon tetrachloride	0.443	0.442	0.010	0.2	25.0	
S	24 1,2-Dichloroethane-D4 (SURR)	1.994	2.145	0.010	7.6	25.0	
	25 Benzene	0.970	0.984	0.010	1.5	25.0	
	26 1,2-Dichloroethane	2.428	2.557	0.010	5.3	25.0	
	28 Trichloroethylene	0.393	0.400	0.010	1.9	25.0	
	29 1,2-Dichloropropane	0.486	0.509	0.010	4.7	25.0	
	30 Dichlorobromomethane	0.655	0.616	0.010	6.0	25.0	
	31 2-Chloroethylvinyl ether	0.070	0.141	0.010	100.9	25.0	<-
	32 cis-1,3-Dichloropropylene	0.606	0.594	0.010	2.1	25.0	
	33 Methyl-iso-butyl ketone	1.146	1.192	0.010	4.0	25.0	
S	34 Toluene-D8 (SURR)	1.147	1.184	0.010	3.2	25.0	
	35 Toluene	0.838	0.850	0.010	1.5	25.0	
	36 trans-1,3-Dichloropropylene	0.471	0.489	0.010	3.7	25.0	
	37 1,1,2-Trichloroethane	0.393	0.408	0.010	3.8	25.0	
	38 Tetrachloroethylene	0.454	0.458	0.010	0.9	25.0	
	39 2-Hexanone	0.854	0.865	0.010	1.3	25.0	
	40 Chlorodibromomethane	0.521	0.515	0.010	1.1	25.0	
	41 Ethylene dibromide	0.772	0.777	0.010	0.6	25.0	
	43 Chlorobenzene	1.000	1.010	0.300	1.1	25.0	

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msc.i
Lab File ID: c6908.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 20-NOV-95 08:08
Init. Calibration Date(s): 11/02/95 11/02/95
Init. Calibration Times: 08:13 10:35
Method File: /chem/msc.i/c112095.b/110295_8240heatc.

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
44 Ethylbenzene	0.489	0.494	0.010	1.1	25.0
45 m+p-Xylenes	0.598	0.616	0.010	2.9	25.0
46 o-Xylene	0.592	0.606	0.010	2.3	25.0
47 Styrene	0.964	0.989	0.010	2.6	25.0
48 Bromoform	0.449	0.461	0.250	2.6	25.0
$ 49 Bromofluorobenzene (SURR)	0.876	0.910	0.010	4.0	25.0
50 1,1,2,2-Tetrachloroethane	1.089	1.155	0.300	6.1	25.0
51 1,3-Dichlorobenzene	0.872	0.930	0.010	6.6	25.0
52 1,4-Dichlorobenzene	0.977	1.048	0.010	7.3	25.0
53 1,2-Dichlorobenzene	0.840	0.902	0.010	7.4	25.0

Data File: /chem/msc.i/c112195.b/c6927.d
Report Date: 21-Nov-1995 08:41

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msc.i
Lab File ID: c6927.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 21-NOV-95 07:41
Init. Calibration Date(s): 11/02/95 11/02/95
Init. Calibration Times: 08:13 10:35
Method File: /chem/msc.i/c112195.b/110295_8240heatc.

Mk-ok
NEESA-ok

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D	
	1 Methyl chloride	1.233	1.183	0.300	4.1	25.0	
	2 Vinyl chloride	1.316	1.267	0.010	3.7	25.0	
	3 Methyl bromide	1.107	1.165	0.010	5.2	25.0	
	4 Chloroethane	0.723	0.805	0.010	11.5	25.0	
	5 Trichlorofluoromethane	1.788	1.789	0.010	0.1	25.0	
	6 Ethyl ether	1.153	1.358	0.010	17.8	25.0	
	7 Acrolein	0.341	0.407	0.010	19.4	25.0	
	9 1,1,2-Trichlorotrifluoroetha	2.614	2.870	0.010	9.8	25.0	
	8 1,1-Dichloroethylene	1.255	1.352	0.010	7.8	25.0	
	10 Acetone	1.116	1.016	0.010	9.0	25.0	
	11 Carbon disulfide	3.304	2.934	0.010	11.2	25.0	
	12 Methylene chloride	1.620	1.624	0.010	0.3	25.0	
	13 Acrylonitrile	0.697	0.788	0.010	12.9	25.0	
	14 1,2-Trans-dichloroethylene	1.461	1.494	0.010	2.3	25.0	
	15 Tert-Butyl Methyl Ether	3.951	4.092	0.010	3.6	25.0	
	16 1,1-Dichloroethane	3.076	3.149	0.300	2.4	25.0	
	17 1,2-cis-Dichloroethylene	1.512	1.467	0.010	2.9	25.0	
	18 Methyl ethyl ketone	0.069	0.076	0.010	10.0	25.0	
	19 Ethyl acetate	8.036	9.260	0.010	15.2	25.0	
	21 Chloroform	2.980	2.990	0.010	0.3	25.0	
	22 1,1,1-Trichloroethane	0.504	0.493	0.010	2.2	25.0	
	23 Carbon tetrachloride	0.443	0.432	0.010	2.6	25.0	
$	24 1,2-Dichloroethane-D4 (SURR)	1.994	2.138	0.010	7.2	25.0	
	25 Benzene	0.970	1.007	0.010	3.8	25.0	
	26 1,2-Dichloroethane	2.428	2.517	0.010	3.7	25.0	
	28 Trichloroethylene	0.393	0.440	0.010	12.1	25.0	
	29 1,2-Dichloropropane	0.486	0.504	0.010	3.8	25.0	
	30 Dichlorobromomethane	0.655	0.629	0.010	4.0	25.0	
	31 2-Chloroethylvinyl ether	0.070	0.138	0.010	96.7	25.0	<-
	32 cis-1,3-Dichloropropylene	0.606	0.613	0.010	1.1	25.0	
	33 Methyl-iso-butyl ketone	1.146	1.249	0.010	9.0	25.0	
$	34 Toluene-D8 (SURR)	1.147	1.219	0.010	6.3	25.0	
	35 Toluene	0.838	0.859	0.010	2.5	25.0	
	36 trans-1,3-Dichloropropylene	0.471	0.498	0.010	5.7	25.0	
	37 1,1,2-Trichloroethane	0.393	0.427	0.010	8.7	25.0	
	38 Tetrachloroethylene	0.454	0.481	0.010	5.9	25.0	
	39 2-Hexanone	0.854	0.934	0.010	9.4	25.0	
	40 Chlorodibromomethane	0.521	0.540	0.010	3.7	25.0	
	41 Ethylene dibromide	0.772	0.798	0.010	3.4	25.0	
	43 Chlorobenzene	1.000	1.026	0.300	2.6	25.0	

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msc.i
Lab File ID: c6927.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 21-NOV-95 07:41
Init. Calibration Date(s): 11/02/95 11/02/95
Init. Calibration Times: 08:13 10:35
Method File: /chem/msc.i/c112195.b/110295_8240heatc.

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
	44 Ethylbenzene	0.489	0.496	0.010	1.5	25.0
	45 m+p-Xylenes	0.598	0.612	0.010	2.4	25.0
	46 o-Xylene	0.592	0.607	0.010	2.6	25.0
	47 Styrene	0.964	0.995	0.010	3.2	25.0
	48 Bromoform	0.449	0.491	0.250	9.2	25.0
$	49 Bromofluorobenzene (SURR)	0.876	0.893	0.010	2.0	25.0
	50 1,1,2,2-Tetrachloroethane	1.089	1.194	0.300	9.6	25.0
	51 1,3-Dichlorobenzene	0.872	0.946	0.010	8.5	25.0
	52 1,4-Dichlorobenzene	0.977	1.068	0.010	9.3	25.0
	53 1,2-Dichlorobenzene	0.840	0.926	0.010	10.1	25.0

Data File: /chem/msc.i/c110295.b/c6497.d

Date : 02-NOV-95 07:31

.ient ID: bfb tune

Instrument: msc.i

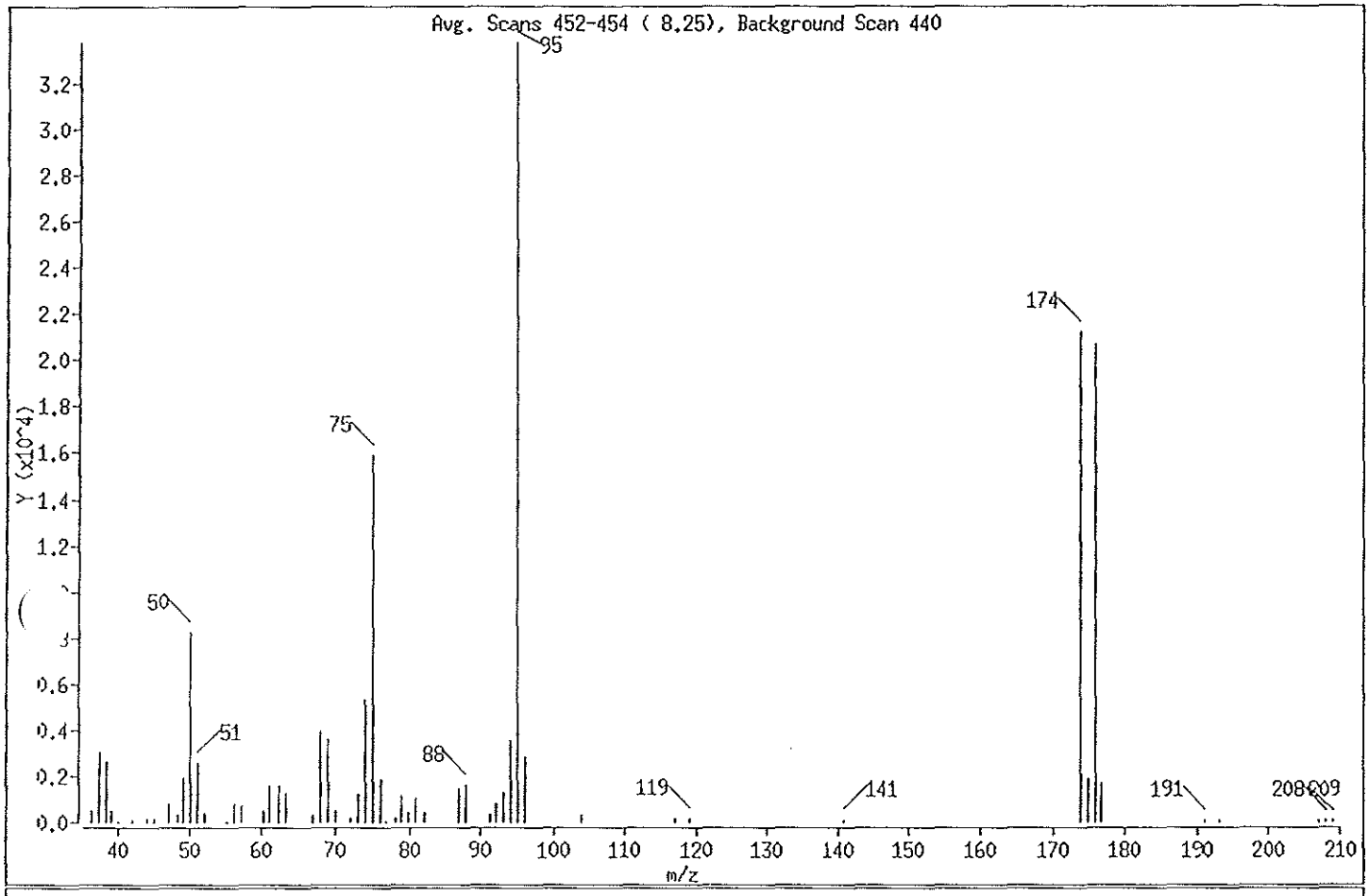
Sample Info: bfb tune

Operator: jk

Column phase: J&W DB-624

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.28
75	30.00 - 60.00% of mass 95	47.10
96	5.00 - 9.00% of mass 95	8.39
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	62.79
175	5.00 - 9.00% of mass 174	5.42 (8.63)
176	95.00 - 101.00% of mass 174	61.30 (97.62)
177	5.00 - 9.00% of mass 176	4.94 (8.07)

Data File: /chem/msc.i/c110295.b/c6497.d

Date : 02-NOV-95 07:31

Client ID: bfb tune

Instrument: msc.i

Sample Info: bfb tune

Operator: jk

Column phase: J&W DB-624

Column diameter: 0.53

Data File: c6497.d

Spectrum : Avg. Scans 452-454 (8.25), Background Scan 440

Largest m/z: 94.95

Number of peaks: 57

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	456	56.05	814	76.90	34	117.05	168
37.10	3061	57.05	744	78.10	130	118.95	171
38.10	2671	60.05	455	78.90	1094	140.90	68
39.00	515	60.95	1570	79.80	392	173.90	21192
40.00	27	62.05	1623	80.90	1071	174.90	1828
41.95	64	63.05	1297	82.00	390	175.90	20688
44.05	122	67.00	286	87.00	1397	176.80	1669
45.05	194	68.00	3893	88.00	1628	191.00	75
47.05	822	69.00	3554	91.10	281	193.00	70
48.15	297	70.00	462	92.00	779	206.95	45
49.05	1902	72.10	199	93.10	1243	207.95	66
50.05	8195	73.00	1211	93.95	3532	209.05	69
51.05	2524	74.00	5229	94.95	33752		
51.95	368	75.00	15899	96.05	2831		
54.95	33	76.00	1807	103.85	307		

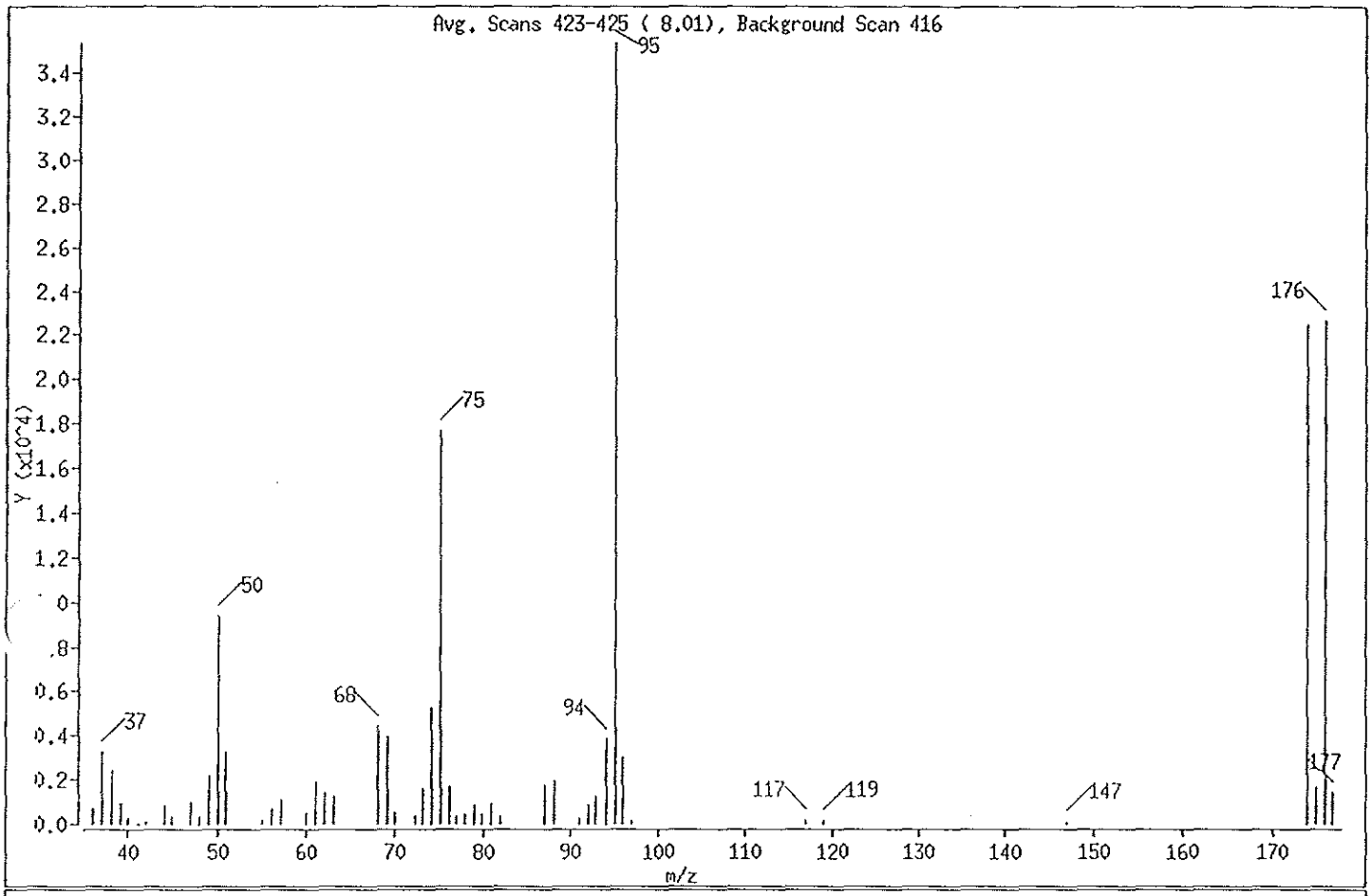
Data File: /chem/msc.i/c112095.b/c6906.d
Date : 20-NOV-95 06:59
Client ID: bfb tune
Sample Info: bfb tune

Instrument: msc.i

Operator: jk

Column phase: J&W DB-624
Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	26.53
75	30.00 - 60.00% of mass 95	49.96
96	5.00 - 9.00% of mass 95	8.44
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	63.78
175	5.00 - 9.00% of mass 174	4.86 (7.61)
176	95.00 - 101.00% of mass 174	64.18 (100.63)
177	5.00 - 9.00% of mass 176	4.06 (6.33)

Data File: /chem/msc.i/c112095.b/c6906.d
Date : 20-NOV-95 06:59
Client ID: bfb tune
Instrument: msc.i
Sample Info: bfb tune
Operator: jk
Column phase: J&W DB-624
Column diameter: 0.53

Data File: c6906.d
Spectrum : Avg. Scans 423-425 (8.01), Background Scan 416
Largest m/z: 95.00
Number of peaks: 51

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	682	50.95	3235	74.00	5292	92.90	1238
37.10	3273	55.05	191	75.00	17656	94.00	3876
38.10	2465	56.05	701	76.00	1663	95.00	35352
39.10	885	57.05	1100	76.90	376	95.95	2983
40.00	238	59.95	470	77.90	388	96.95	157
41.10	2	61.05	1950	79.00	835	116.95	178
42.05	108	61.95	1442	79.90	379	118.95	169
44.05	877	63.05	1241	80.90	935	147.00	80
44.95	369	68.05	4440	81.90	314	173.95	22544
47.05	1022	69.00	3907	87.00	1756	174.95	1717
48.05	359	70.00	463	88.00	1940	175.95	22688
49.05	2164	72.10	318	90.90	259	176.90	1436
50.05	9380	73.00	1608	92.00	817		

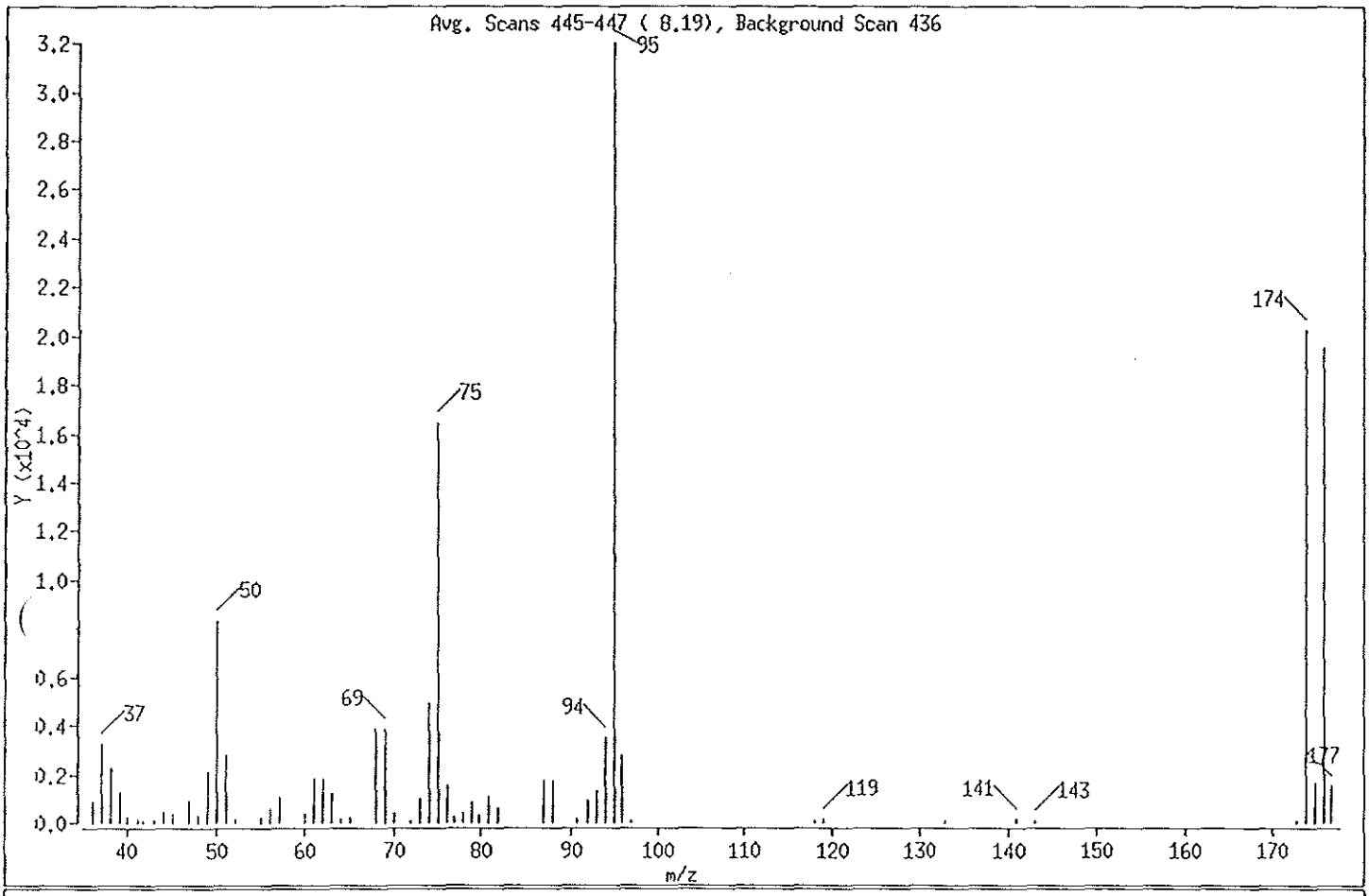
Data File: /chem/msc.i/c112195.b/c6926.d
Date : 21-NOV-95 07:09
ient ID: bfb tune
Sample Info: bfb tune

Instrument: msc.i

Operator: jk

Column phase: J&W DB-624
Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	25.89
75	30.00 - 60.00% of mass 95	51.37
96	5.00 - 9.00% of mass 95	8.45
173	Less than 2.00% of mass 174	0.25 (0.40)
174	50.00 - 100.00% of mass 95	63.32
175	5.00 - 9.00% of mass 174	5.12 (8.09)
176	95.00 - 101.00% of mass 174	61.12 (96.51)
177	5.00 - 9.00% of mass 176	4.64 (7.59)

Data File: /chem/msc.i/c112195.b/c6926.d

Date : 21-NOV-95 07:09

lient ID: bfb tune

Instrument: msc.i

Sample Info: bfb tune

Operator: jk

Column phase: J&W DB-624

Column diameter: 0.53

Data File: c6926.d

Spectrum : Avg. Scans 445-447 (8.19), Background Scan 436

Largest m/z: 95.00

Number of peaks: 58

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	904	52.05	178	74.00	4903	95.00	32008
37.10	3218	55.05	227	75.00	16440	95.95	2705
38.10	2263	56.05	600	76.00	1487	96.95	88
39.10	1260	57.05	1078	76.90	226	117.95	73
40.00	218	59.95	394	78.00	400	118.95	189
41.10	133	61.05	1805	78.90	849	132.80	79
41.75	79	62.05	1847	79.80	315	140.80	143
43.05	169	63.05	1183	80.80	1032	143.00	70
44.05	487	64.05	183	81.90	608	172.75	81
45.05	408	65.05	214	87.00	1776	173.95	20264
47.05	923	68.05	3847	88.00	1775	174.85	1639
47.95	329	69.00	3864	90.80	154	175.95	19560
49.05	2125	70.00	362	92.00	871	176.80	1484
50.05	8288	72.00	87	93.00	1322		
51.05	2786	73.00	989	94.00	3500		

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0086 VBLK01

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Matrix: (soil/water) SOIL Lab Sample ID: N2V4794V

Sample wt/vol: 5.00 (g/mL) G Lab File ID: C6915

Level: (low/med) LOW Date Received: 11/14/95

% Moisture: not dec. N/A Date Analyzed: 11/20/95

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ~~5000~~ N/A (uL) Soil Aliquot Volume: ~~5000~~ N/A (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl Chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene Chloride	4	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	1	J
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	Methyl-iso-butyl ketone	10	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethylene	.6	J
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	.8	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0087

VBLK01

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Matrix: (soil/water) SOIL Lab Sample ID: N2V4794V

Sample wt/vol: 5.00 (g/mL) G Lab File ID: C6915

Level: (low/med) LOW Date Received: 11/14/95

% Moisture: not dec. N/A Date Analyzed: 11/20/95

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ~~5000~~ N/A (uL) Soil Aliquot Volume: ~~5000~~ N/A (uL)

Number TICs found: 0

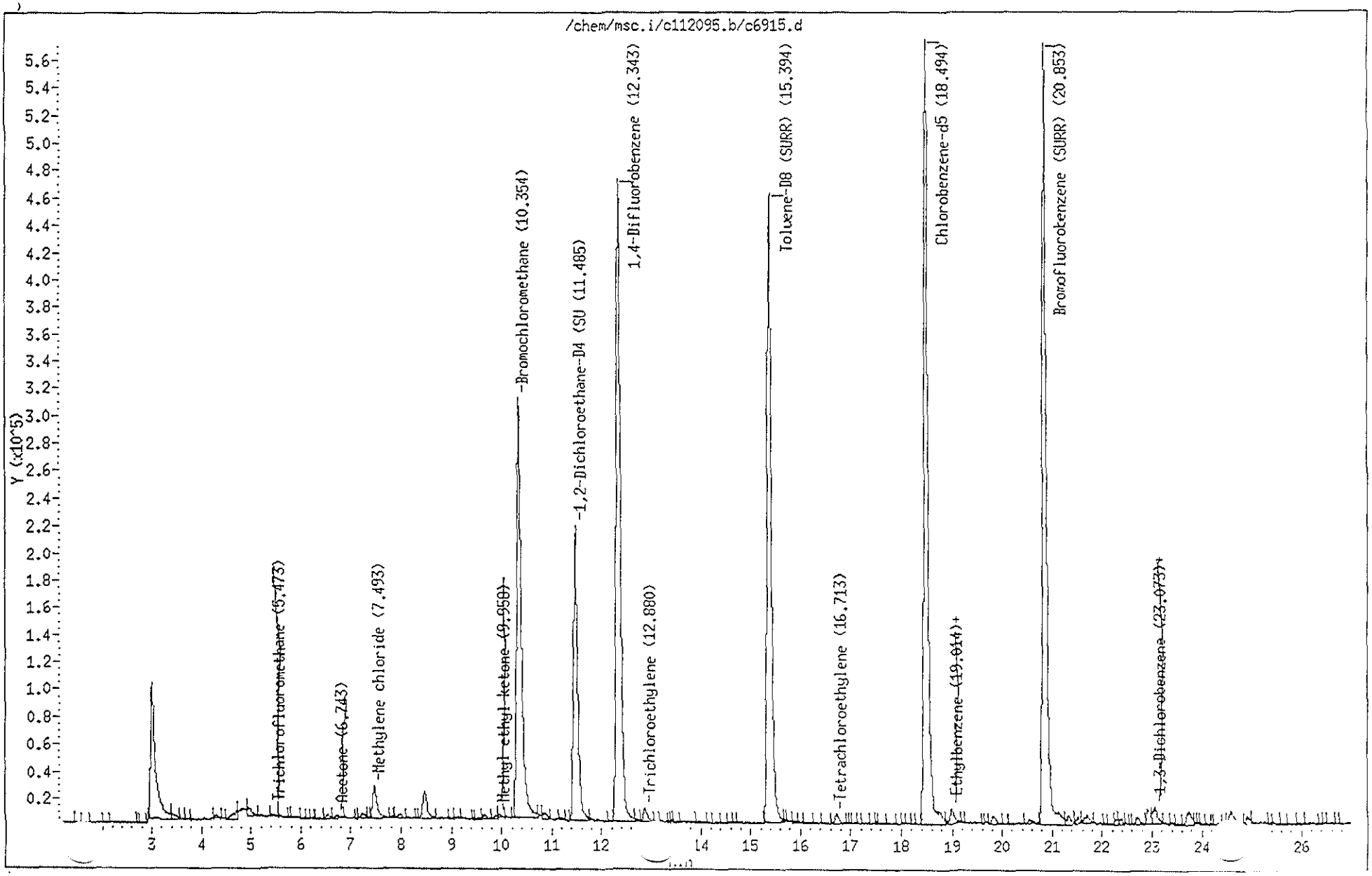
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: /chem/msc.i/c112095.b/c6915.d
Date : 20-NOV-95 13:54
Client ID: N2V4794 blk
Sample Info: n2v4794 blk
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i

Operator: jk
Column diameter: 0.53



OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msc.i/c112095.b/c6915.d
Lab Smp Id: Client Smp ID: N2V4794 blk
Inj Date : 20-NOV-95 13:54
Operator : jk Inst ID: msc.i
Smp Info : n2v4794 blk
Misc Info : n2v4794v,n2v4794,m2,5000,1,5.0,5.0,951120,
Comment :
Method : /chem/msc.i/c112095.b/110295_8240heatc.m
Meth Date : 20-Nov-1995 15:24 glenn Quant Type: ISTD
Cal Date : 20-NOV-95 08:08 Cal File: c6908.d
Als bottle: 13
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	Trichlorofluoromethane	101.00	5.465	5.526	(0.528)	4044	0.500	~~0.500(a)~~
	10 Acetone	43.00	6.734	6.965	(0.650)	5383	1.22	~~1.22~~
	12 Methylene chloride	84.00	7.485	7.659	(0.723)	29189	4.29	4.29
	18 Methyl ethyl ketone	72.00	9.950	10.205	(0.806)	672	0.505	~~0.505(a)~~
*	20 Bromochloromethane	128.00	10.354	10.577	(1.000)	222737	50.0	
$	24 1,2-Dichloroethane-D4 (SURR)	65.00	11.485	11.711	(1.109)	404862	42.4	42.4
*	27 1,4-Difluorobenzene	114.00	12.343	12.571	(1.000)	960568	50.0	
	28 Trichloroethylene	130.00	12.880	13.117	(1.043)	8463	1.10	1.10
$	34 Toluene-D8 (SURR)	98.00	15.394	15.623	(0.832)	822650	44.6	44.6
	38 Tetrachloroethylene	164.00	16.713	16.956	(0.904)	4313	0.604	0.604(a)
*	42 Chlorobenzene-d5	117.00	18.494	18.710	(1.000)	779491	50.0	
	44 Ethylbenzene	106.00	19.014	18.976	(1.028)	7255	0.941	~~0.941(a)~~
	45 m+p-Xylenes	106.00	19.014	19.224	(1.028)	7255	0.756	0.756(a)
$	49 Bromofluorobenzene (SURR)	95.00	20.845	21.053	(1.127)	619255	43.6	43.6
	51 1,3-Dichlorobenzene	146.00	23.073	23.105	(1.248)	10647	0.734	~~0.734(a)~~
	52 1,4-Dichlorobenzene	146.00	23.073	23.255	(1.248)	10647	0.652	0.652(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: /chem/msc.i/c112095.b/c6915.d

Date : 20-NOV-95 13:54

Client ID: N2V4794 blk

Instrument: msc.i

Sample Info: n2v4794 blk

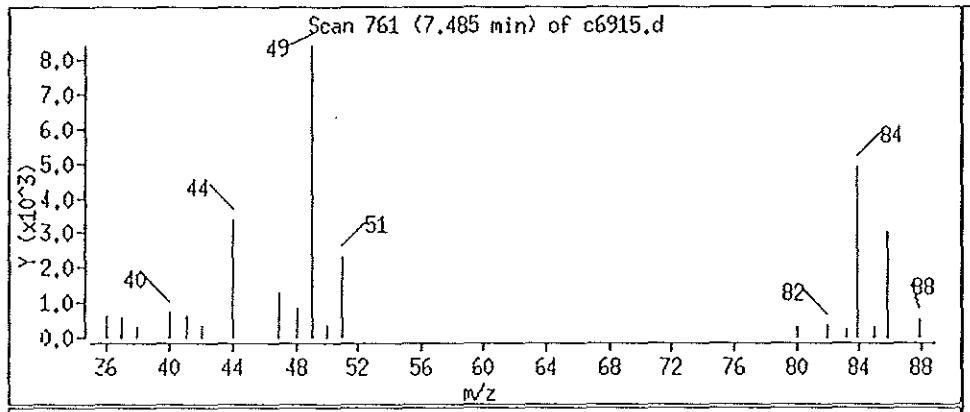
Purge Volume: 1.0

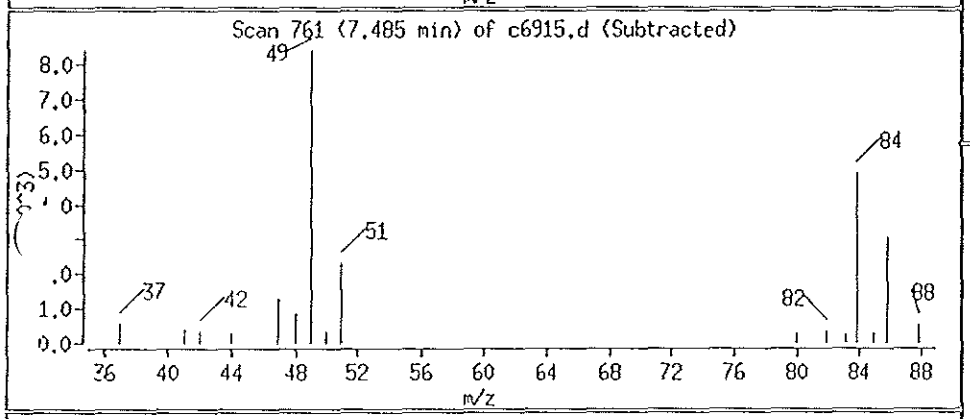
Operator: jk

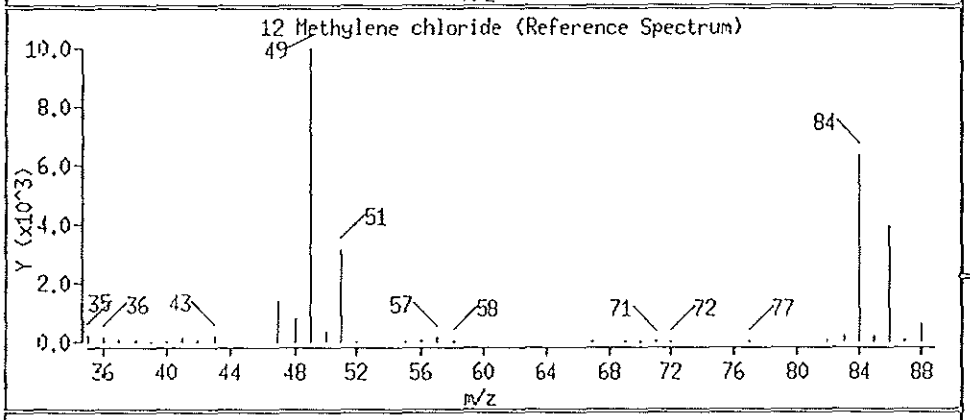
Column phase: J&W DB_624

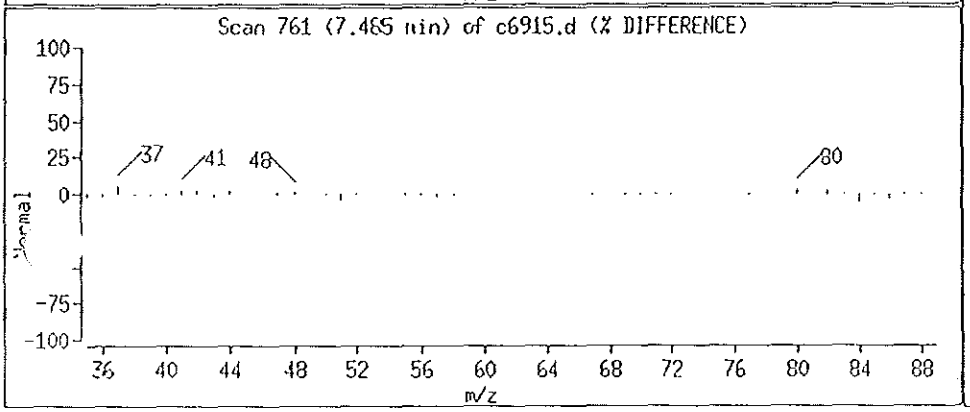
Column diameter: 0.53

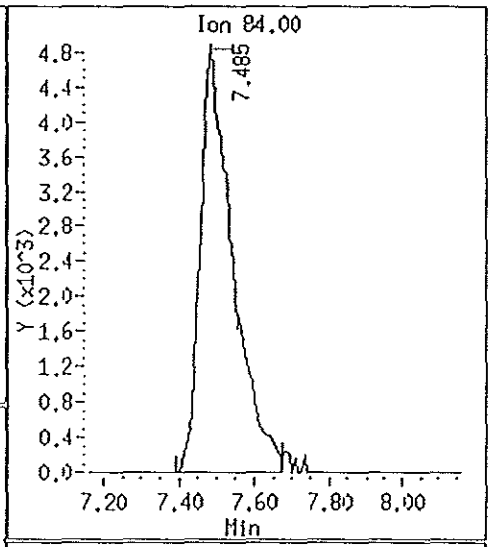
12 Methylene chloride

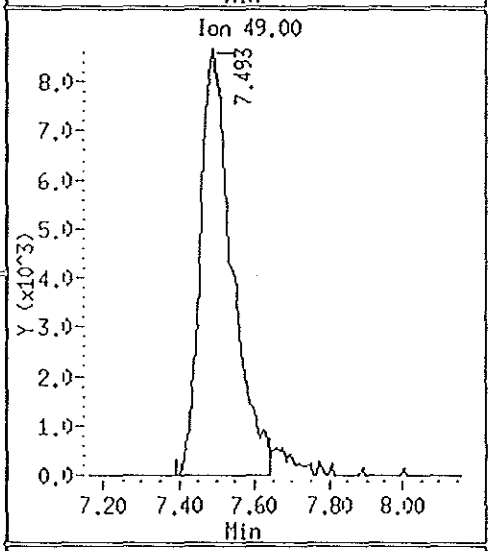


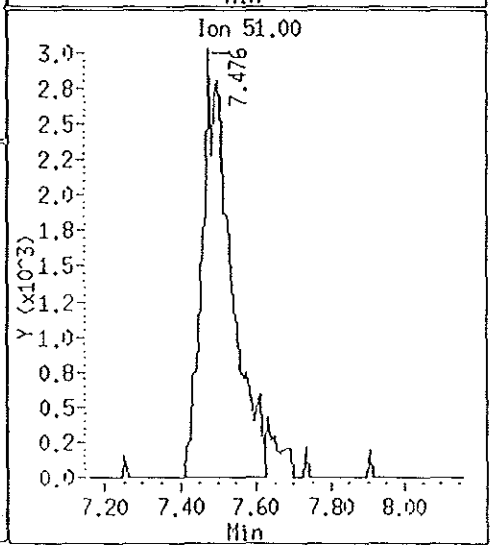












Data File: /chem/msc.i/c112095.b/c6915.d

Date : 20-NOV-95 13:54

lient ID: N2V4794 blk

Instrument: msc.i

Sample Info: n2v4794 blk

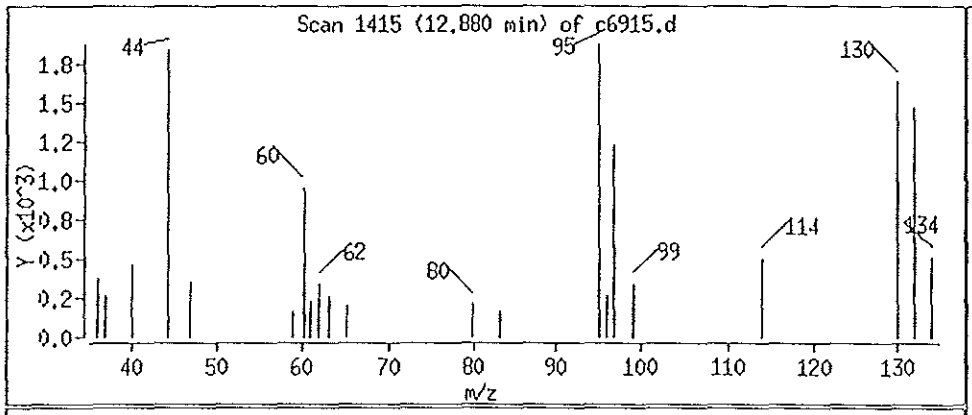
Purge Volume: 1.0

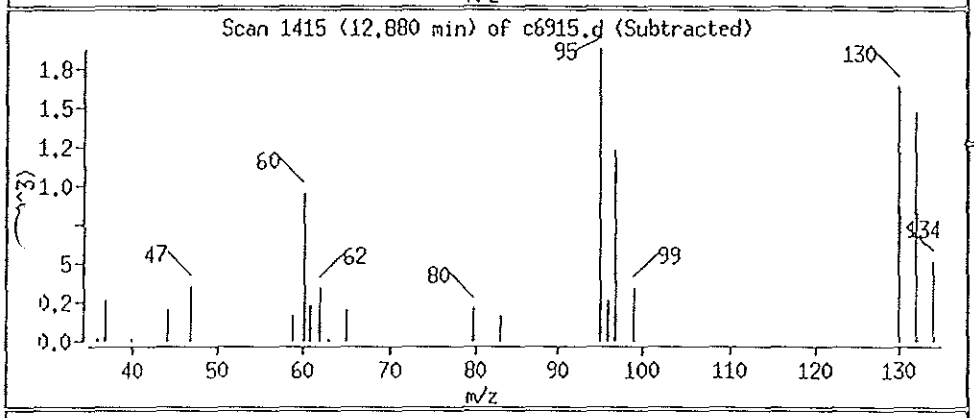
Operator: jk

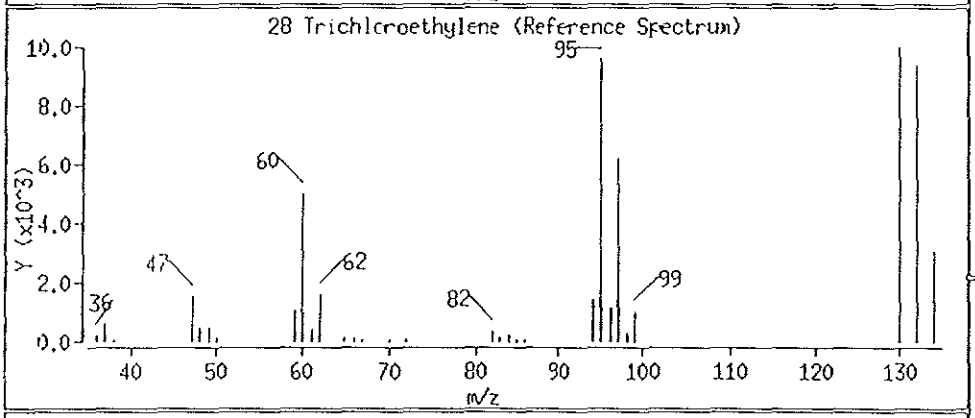
Column phase: J&W DB_624

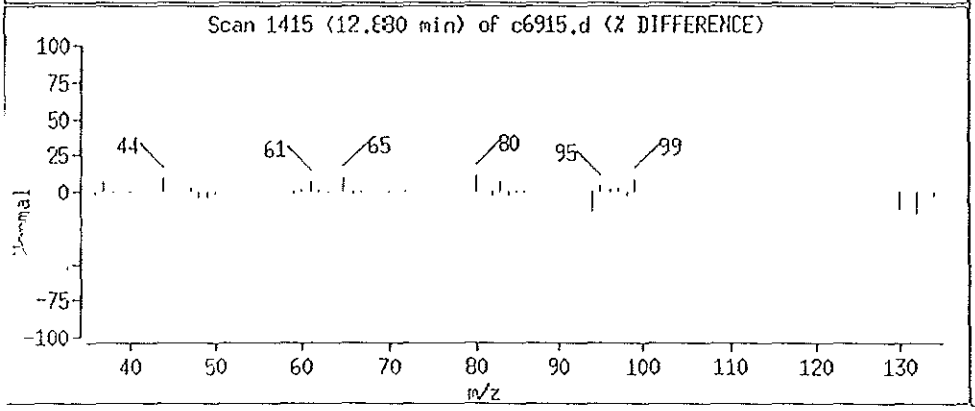
Column diameter: 0.53

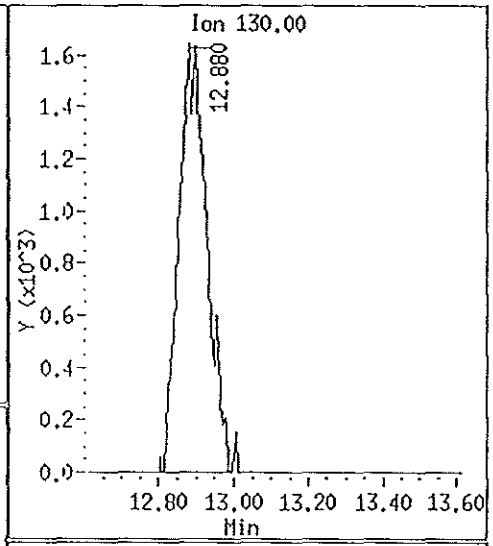
28 Trichloroethylene

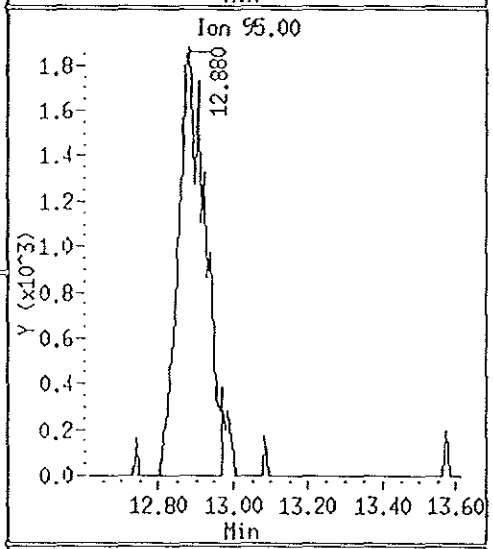


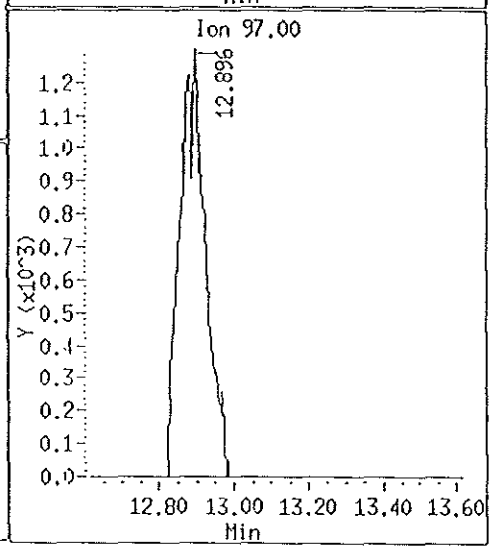






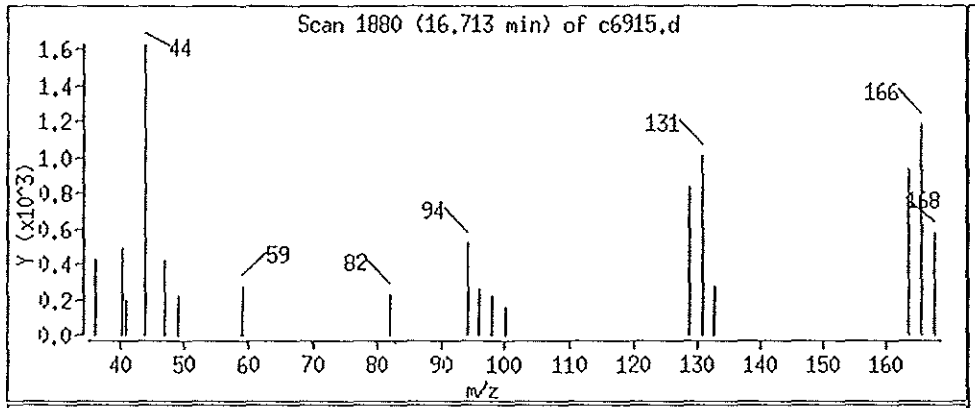


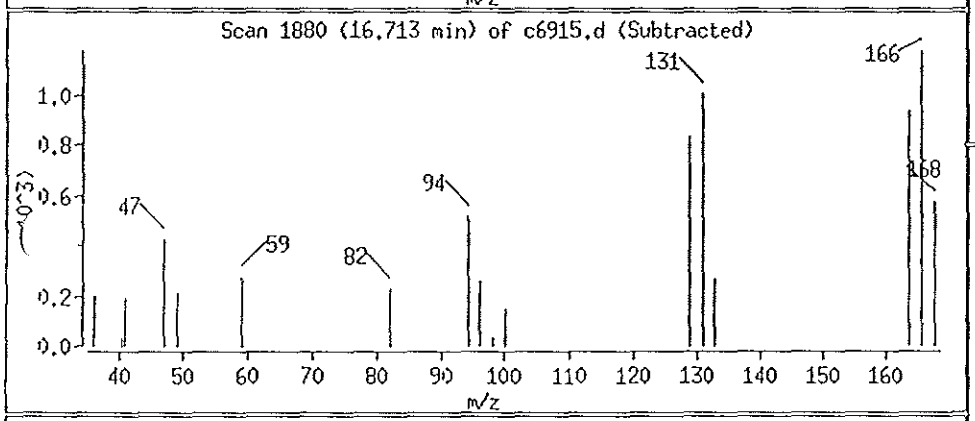


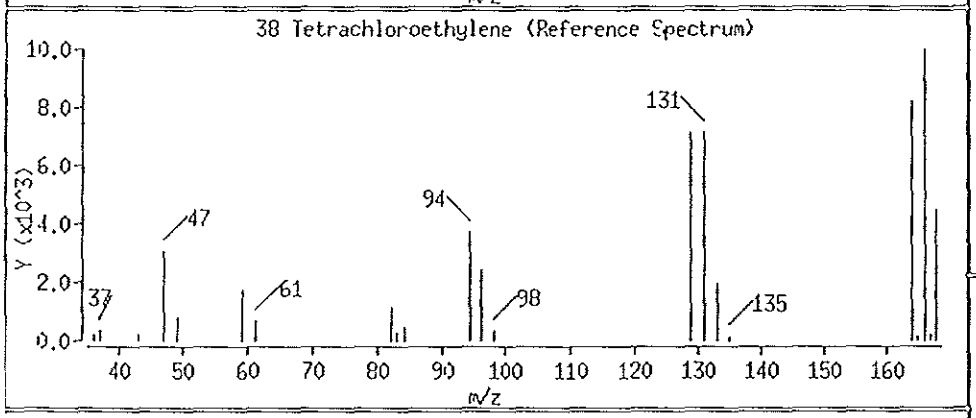


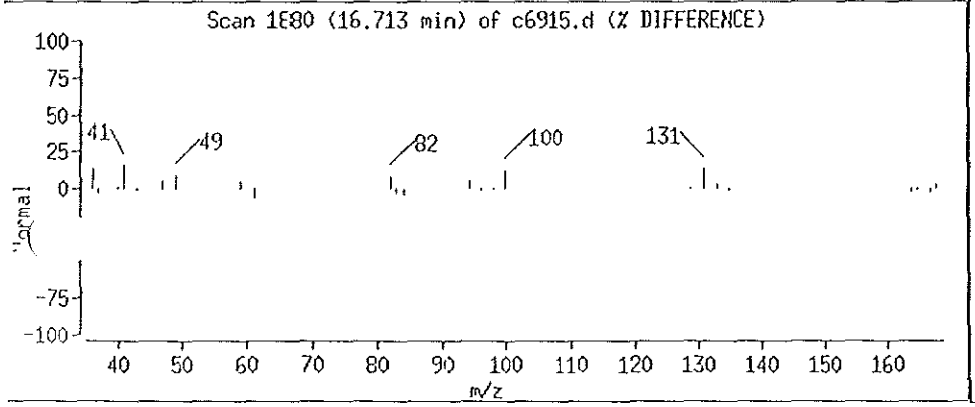
Data File: /chem/msc.i/c112095.b/c6915.d
Date : 20-NOV-95 13:54
lient ID: N2V4794 blk
Instrument: msc.i
Sample Info: n2v4794 blk
Purge Volume: 1.0
Operator: jk
Column phase: J&W DB_624
Column diameter: 0.53

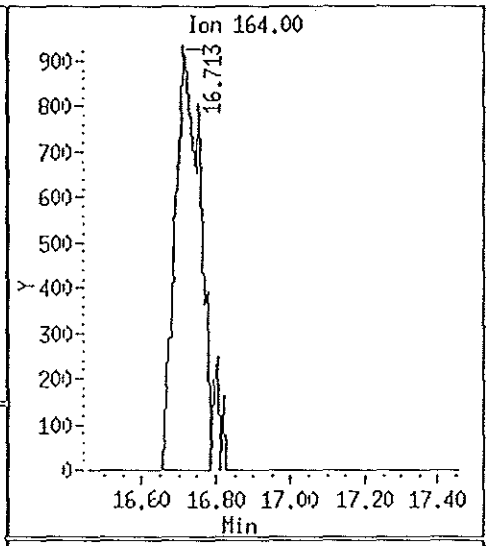
38 Tetrachloroethylene

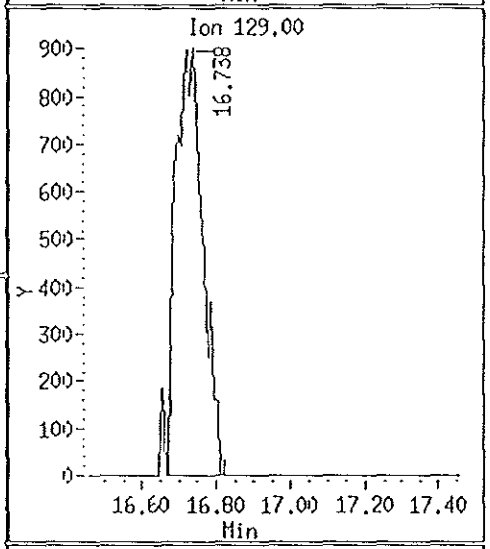


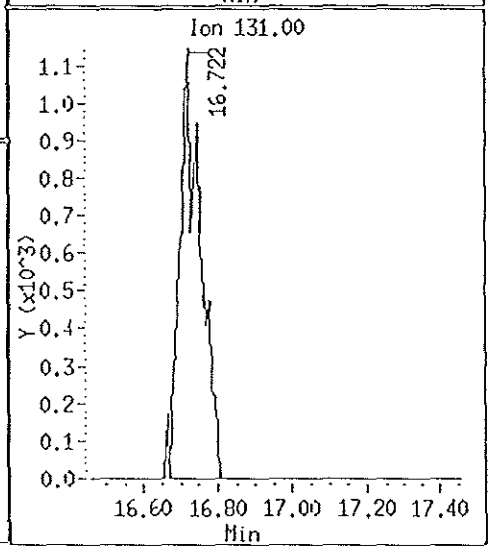








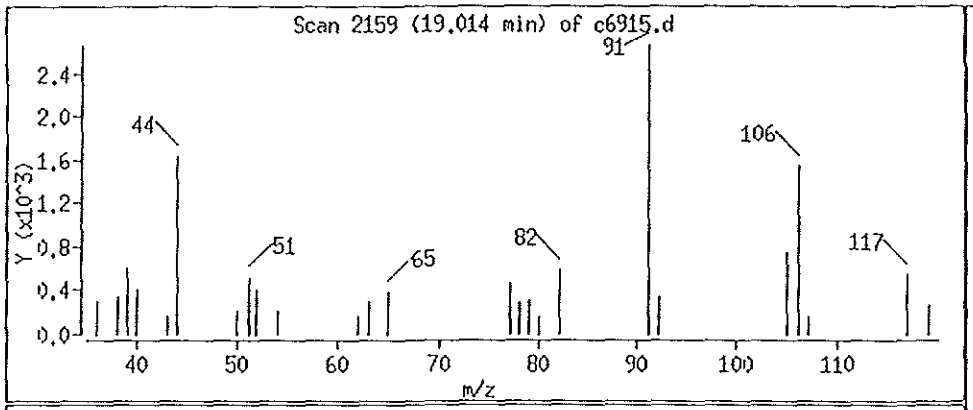


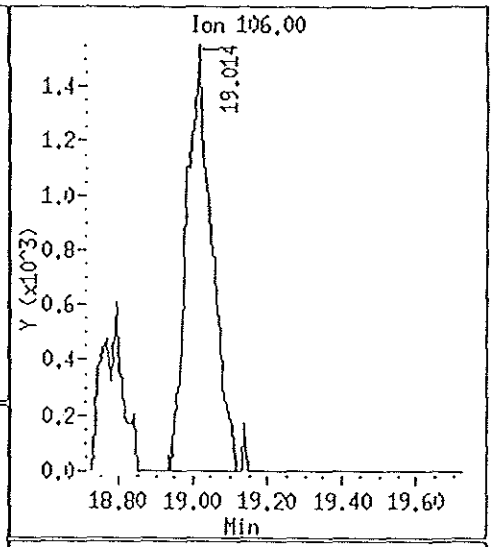


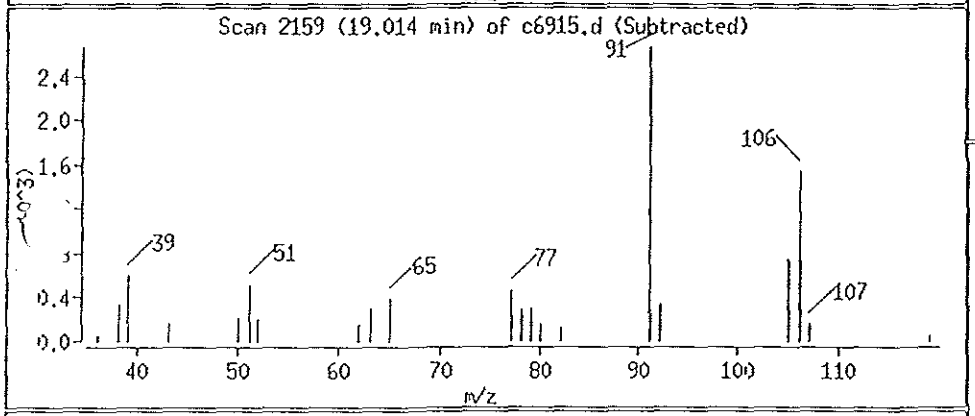
Data File: /chem/msc.i/c112095.b/c6915.d
Date : 20-NOV-95 13:54
(lient ID: N2V4794 blk
Sample Info: n2v4794 blk
Purge Volume: 1.0
Column phase: J&W DB_624

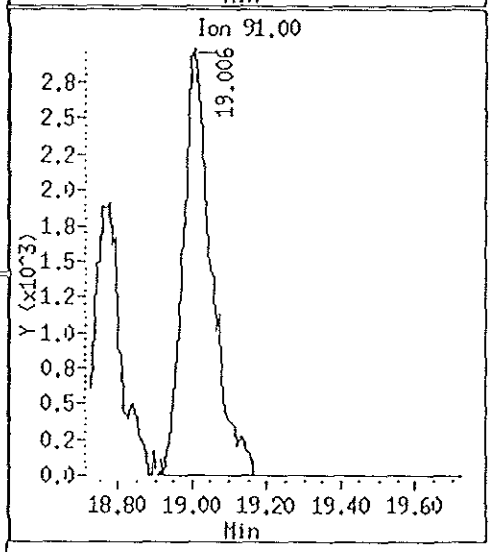
Instrument: msc.i
Operator: jk
Column diameter: 0.53

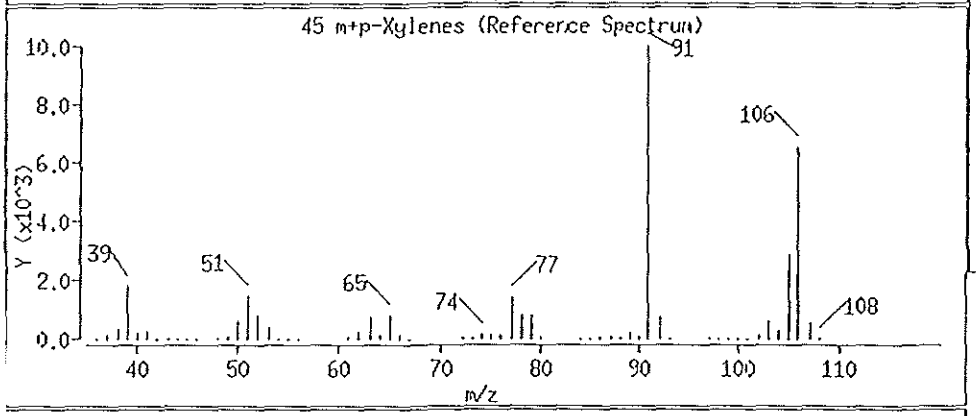
45 m+p-Xylenes

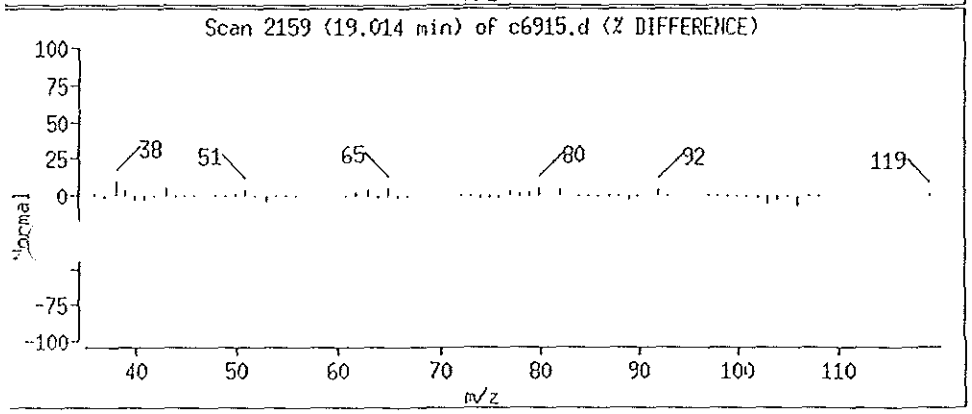












1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0094 ~~0094~~

CLJ78TW003MS

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Matrix: (soil/water) SOIL Lab Sample ID: JP0321VS

Sample wt/vol: 5.39 (g/mL) G Lab File ID: C6936

Level: (low/med) LOW Date Received: 11/14/95

% Moisture: not dec. 14 Date Analyzed: 11/21/95

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

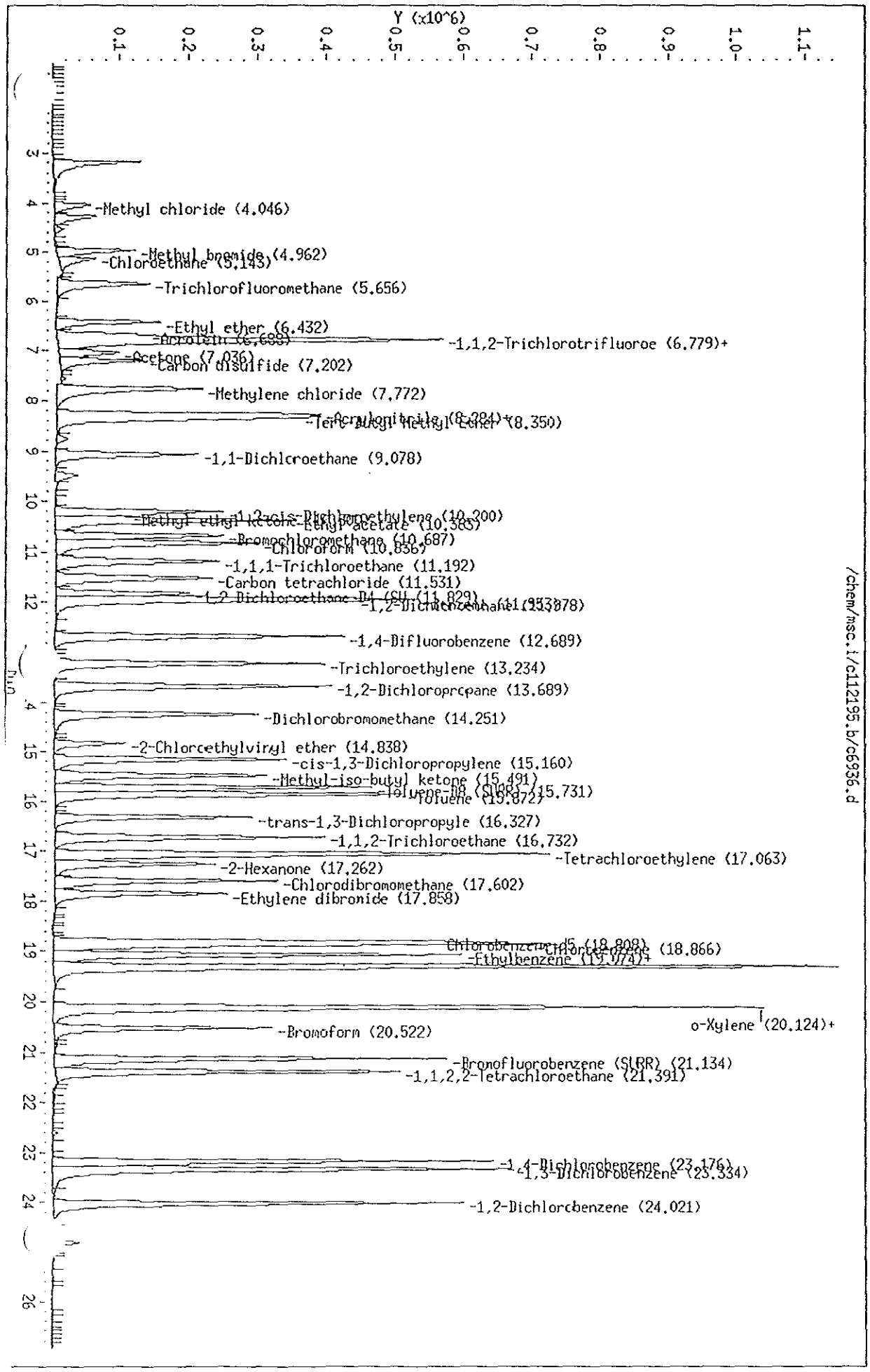
Soil Extract Volume: ~~5000~~ N/A (uL) Soil Aliquot Volume: ~~5000~~ N/A (uL)

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	54	
74-83-9	Bromomethane	57	
75-01-4	Vinyl Chloride	52	
75-00-3	Chloroethane	55	
75-09-2	Methylene Chloride	53	B
67-64-1	Acetone	100	
75-15-0	Carbon Disulfide	52	
75-35-4	1,1-Dichloroethene	52	
75-34-3	1,1-Dichloroethane	53	
540-59-0	1,2-Dichloroethene (total)	100	
67-66-3	Chloroform	54	
107-06-2	1,2-Dichloroethane	52	
78-93-3	2-Butanone	40	
71-55-6	1,1,1-Trichloroethane	54	
56-23-5	Carbon Tetrachloride	56	
75-27-4	Bromodichloromethane	52	
78-87-5	1,2-Dichloropropane	54	
10061-01-5	cis-1,3-Dichloropropene	52	
79-01-6	Trichloroethene	50	B
124-48-1	Dibromochloromethane	52	
79-00-5	1,1,2-Trichloroethane	52	
71-43-2	Benzene	54	
10061-02-6	trans-1,3-Dichloropropene	51	
75-25-2	Bromoform	50	
108-10-1	Methyl-iso-butyl ketone	47	
591-78-6	2-Hexanone	46	
127-18-4	Tetrachloroethylene	85	B
79-34-5	1,1,2,2-Tetrachloroethane	50	
108-88-3	Toluene	55	
108-90-7	Chlorobenzene	55	
100-41-4	Ethylbenzene	55	
100-42-5	Styrene	55	
1330-20-7	Xylene (total)	170	B

Data File: /chem/msc.i/c112195.b/c6936.d
Date : 21-NOV-95 14:34
Client ID: n2v4794 mtx
Sample Info: n2v4794 mtx spk
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i
Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c112195.b/c6936.d
Report Date: 21-Nov-1995 19:08

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msc.i/c112195.b/c6936.d
Lab Smp Id: Client Smp ID: n2v4794 mtx
Inj Date : 21-NOV-95 14:34
Operator : jk Inst ID: msc.i
Smp Info : n2v4794 mtx spk
Misc Info : jp0321vs,n2v4794,m2,5000,1,5.39,5.0,951121,
Comment :
Method : /chem/msc.i/c112195.b/110295_8240heatc.m
Meth Date : 21-Nov-1995 14:56 glenn Quant Type: ISTD
Cal Date : 21-NOV-95 07:41 Cal File: c6927.d
Als bottle: 5
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

ML 11/21/95

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
Methyl chloride	50.00	4.046	3.882	(0.379)	223380	50.4	50.4
Vinyl chloride	62.00	4.277	4.105	(0.400)	229495	48.3	48.3 (QM)
3 Methyl bromide	94.00	4.970	4.773	(0.465)	232294	53.2	53.2
4 Chloroethane	64.00	5.152	4.947	(0.482)	155298	51.5	51.5
5 Trichlorofluoromethane	101.00	5.656	5.418	(0.529)	401995	60.0	60.0
6 Ethyl ether	59.00	6.424	6.195	(0.601)	236058	46.4	46.4
7 Acrolein	56.00	6.688	6.443	(0.626)	311203	204	204 (A)
9 1,1,2-Trichlorotrifluoroethan	101.00	6.779	6.517	(0.634)	512299	47.6	47.6
8 1,1-Dichloroethylene	96.00	6.779	6.509	(0.634)	246857	48.7	48.7
10 Acetone	43.00	7.036	6.841	(0.658)	369404	97.1	97.1
11 Carbon disulfide	76.00	7.202	6.923	(0.674)	532795	48.5	48.5
12 Methylene chloride	84.00	7.772	7.510	(0.727)	302103	49.6	49.6
13 Acrylonitrile	53.00	8.276	8.039	(0.774)	127676	43.3	43.3
14 1,2-Trans-dichloroethylene	96.00	8.276	8.014	(0.774)	260374	46.5	46.5
15 Tert-Butyl Methyl Ether	73.00	8.350	8.114	(0.781)	693330	45.2	45.2
16 1,1-Dichloroethane	63.00	9.078	8.816	(0.849)	582709	49.4	49.4
17 1,2-cis-Dichloroethylene	96.00	10.200	9.915	(0.954)	271909	49.4	49.4
18 Methyl ethyl ketone	72.00	10.300	10.031	(0.812)	47850	37.4	37.4
19 Ethyl acetate	43.00	10.383	10.122	(0.971)	1496771	43.1	43.1
20 Bromochloromethane	128.00	10.687	10.395	(1.000)	187325	50.0	
21 Chloroform	83.00	10.828	10.544	(1.013)	562830	50.2	50.2
22 1,1,1-Trichloroethane	97.00	11.192	10.891	(0.882)	415322	50.1	50.1
23 Carbon tetrachloride	117.00	11.531	11.214	(0.909)	380043	52.4	52.4
24 1,2-Dichloroethane-D4 (SURR)	65.00	11.829	11.520	(1.107)	377029	47.1	47.1
25 Benzene	78.00	11.945	11.620	(0.941)	852129	50.3	50.3
1,2-Dichloroethane	62.00	11.978	11.678	(1.121)	458373	48.6	48.6
1,4-Difluorobenzene	114.00	12.689	12.389	(1.000)	840389	50.0	
28 Trichloroethylene	130.00	13.234	12.918	(1.043)	345135	46.6	46.6
29 1,2-Dichloropropane	63.00	13.689	13.381	(1.079)	426448	50.3	50.3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	30 Dichlorobromomethane	83.00	14.251	13.952	(1.123)	514756	48.7	48.7
	31 2-Chloroethylvinyl ether	63.00	14.838	14.555	(1.169)	119392	51.3	51.3
	32 cis-1,3-Dichloropropylene	75.00	15.160	14.861	(1.195)	495475	48.1	48.1
	33 Methyl-iso-butyl ketone	43.00	15.491	15.201	(0.824)	734993	43.4	43.4
S	34 Toluene-D8 (SURR)	98.00	15.731	15.424	(0.836)	812060	49.2	49.2
	35 Toluene	92.00	15.872	15.565	(0.844)	590592	50.7	50.7
	36 trans-1,3-Dichloropropylene	75.00	16.327	16.029	(1.287)	399737	47.7	47.7
	37 1,1,2-Trichloroethane	97.00	16.724	16.426	(1.318)	347417	48.4	48.4
	38 Tetrachloroethylene	164.00	17.063	16.757	(0.907)	513305	78.8	78.8
	39 2-Hexanone	43.00	17.262	16.972	(0.918)	538325	42.6	42.6
	40 Chlorodibromomethane	129.00	17.602	17.312	(1.387)	437357	48.2	48.2
	41 Ethylene dibromide	107.00	17.858	17.560	(0.949)	520163	48.1	48.1
*	42 Chlorobenzene-d5	117.00	18.808	18.535	(1.000)	677366	50.0	
	43 Chlorobenzene	112.00	18.866	18.594	(1.003)	711421	51.2	51.2
	44 Ethylbenzene	106.00	19.074	18.801	(1.014)	342707	51.0	51.0
	45 m+p-Xylenes	106.00	19.306	19.041	(1.026)	864918	104	104 (H)
	46 o-Xylene	106.00	20.116	19.852	(1.070)	425922	51.8	51.8
	47 Styrene	104.00	20.133	19.877	(1.070)	692344	51.4	51.4
	48 Bromoform	173.00	20.522	20.266	(1.617)	380690	46.2	46.2
S	49 Bromofluorobenzene (SURR)	95.00	21.134	20.887	(1.124)	602367	49.8	49.8
	,1,2,2-Tetrachloroethane	83.00	21.391	21.160	(1.137)	751052	46.4	46.4
	1,3-Dichlorobenzene	146.00	23.184	22.946	(1.233)	633865	49.4	49.4 (H)
	52 1,4-Dichlorobenzene	146.00	23.342	23.112	(1.241)	682957	47.2	47.2 (H)
	53 1,2-Dichlorobenzene	146.00	24.021	23.783	(1.277)	586214	46.8	46.8

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0098

CLJ78TW003MSD

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Matrix: (soil/water) SOIL Lab Sample ID: JP0321VR

Sample wt/vol: 5.35 (g/mL) G Lab File ID: C6937

Level: (low/med) LOW Date Received: 11/14/95

% Moisture: not dec. 14 Date Analyzed: 11/21/95

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

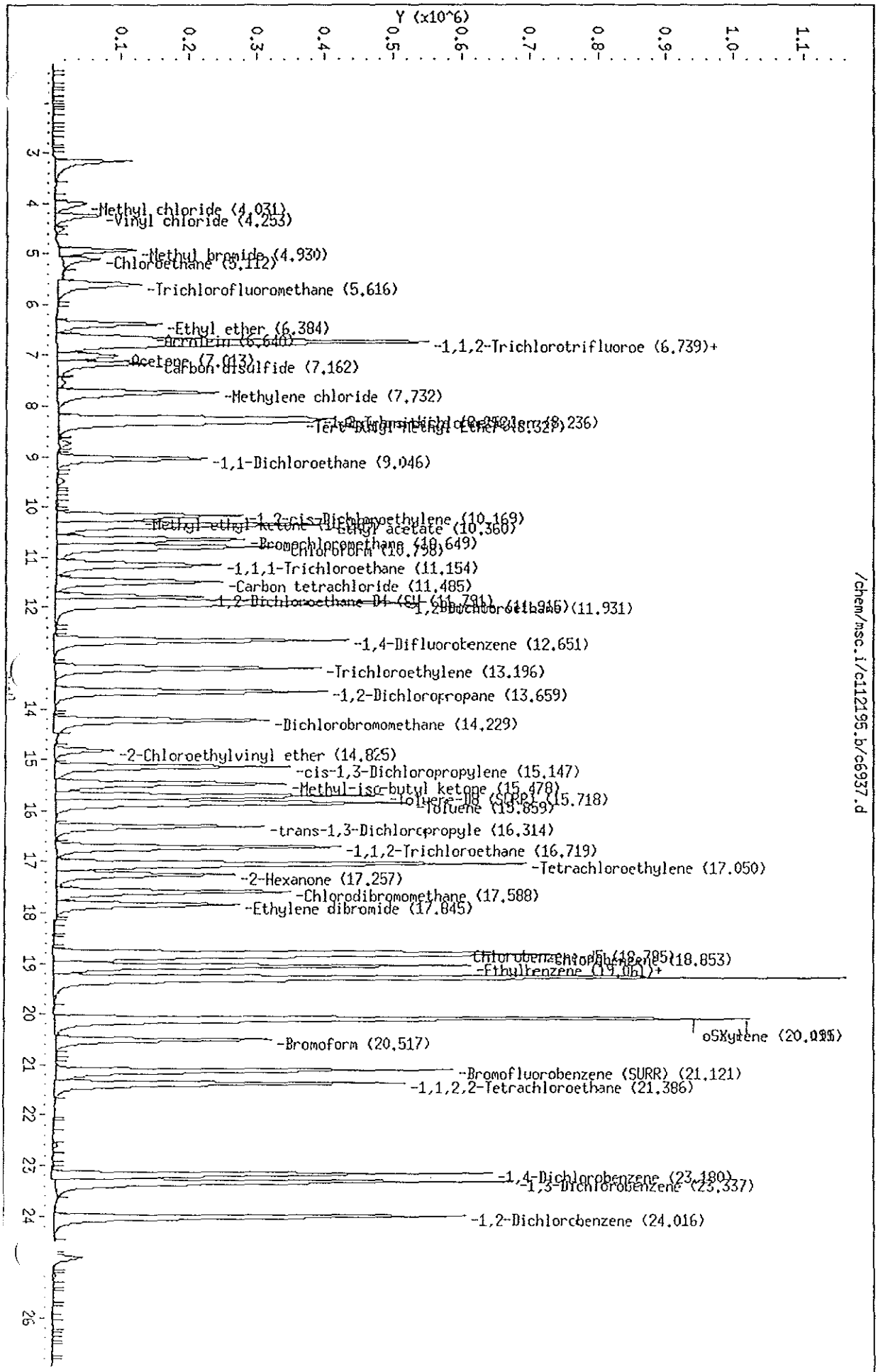
Soil Extract Volume: ~~5000~~ (uL) Soil Aliquot Volume: ~~5000~~ (uL)

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	49	
74-83-9	Bromomethane	50	
75-01-4	Vinyl Chloride	50	
75-00-3	Chloroethane	49	
75-09-2	Methylene Chloride	51	B
67-64-1	Acetone	99	
75-15-0	Carbon Disulfide	49	
75-35-4	1,1-Dichloroethene	49	
75-34-3	1,1-Dichloroethane	54	
540-59-0	1,2-Dichloroethene (total)	110	
67-66-3	Chloroform	55	
107-06-2	1,2-Dichloroethane	54	
78-93-3	2-Butanone	51	
71-55-6	1,1,1-Trichloroethane	53	
56-23-5	Carbon Tetrachloride	58	
75-27-4	Bromodichloromethane	53	
78-87-5	1,2-Dichloropropane	54	
10061-01-5	cis-1,3-Dichloropropene	51	
79-01-6	Trichloroethene	49	B
124-48-1	Dibromochloromethane	55	
79-00-5	1,1,2-Trichloroethane	53	
71-43-2	Benzene	54	
10061-02-6	trans-1,3-Dichloropropene	53	
75-25-2	Bromoform	49	
108-10-1	Methyl-iso-butyl ketone	50	
591-78-6	2-Hexanone	51	
127-18-4	Tetrachloroethylene	77	B
79-34-5	1,1,2,2-Tetrachloroethane	49	
108-88-3	Toluene	54	
108-90-7	Chlorobenzene	54	
100-41-4	Ethylbenzene	53	
100-42-5	Styrene	52	
1330-20-7	Xylene (total)	160	B

Data File: /chem/msc.i/c112195.b/c6937.d
Date : 21-NOV-95 15:08
Client ID: n2v4794 mtx sup
Sample Info: n2v4794 mtx spkdup
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i
Operator: jk
Column diameter: 0.53



OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msc.i/c112195.b/c6937.d
Lab Smp Id: Client Smp ID: n2v4794 mtx sup
Inj Date : 21-NOV-95 15:08
Operator : jk Inst ID: msc.i
Smp Info : n2v4794 mtx spkdup
Misc Info : jp0321vr,n2v4794,m2,5000,1,5.35,5.0,951121,
Comment :
Method : /chem/msc.i/c112195.b/110295_8240heatc.m
Meth Date : 21-Nov-1995 14:56 glenn Quant Type: ISTD
Cal Date : 21-NOV-95 07:41 Cal File: c6927.d
Als bottle: 6
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

MK 11/21/95

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	Methyl chloride	50.00	4.031	3.882	(0.378)	211854	45.0	45.0
	Vinyl chloride	62.00	4.253	4.105	(0.399)	230235	45.7	45.7
3	Methyl bromide	94.00	4.930	4.773	(0.463)	213030	46.0	46.0
4	Chloroethane	64.00	5.120	4.947	(0.481)	145383	45.4	45.4
5	Trichlorofluoromethane	101.00	5.616	5.418	(0.527)	371443	52.2	52.2
6	Ethyl ether	59.00	6.384	6.195	(0.599)	239056	44.3	44.3
7	Acrolein	56.00	6.640	6.443	(0.624)	339129	210	210(A)
9	1,1,2-Trichlorotrifluoroethan	101.00	6.739	6.517	(0.633)	500822	43.9	43.9
8	1,1-Dichloroethylene	96.00	6.748	6.509	(0.634)	240379	44.7	44.7
10	Acetone	43.00	7.013	6.841	(0.659)	369585	91.5	91.5
11	Carbon disulfide	76.00	7.162	6.923	(0.673)	528261	45.3	45.3
12	Methylene chloride	84.00	7.724	7.510	(0.725)	302975	46.9	46.9
13	Acrylonitrile	53.00	8.252	8.039	(0.775)	145228	46.4	46.4
14	1,2-Trans-dichloroethylene	96.00	8.236	8.014	(0.773)	279828	47.1	47.1
15	Tert-Butyl Methyl Ether	73.00	8.327	8.114	(0.782)	765069	47.0	47.0
16	1,1-Dichloroethane	63.00	9.046	8.816	(0.849)	625584	50.0	50.0
17	1,2-cis-Dichloroethylene	96.00	10.169	9.915	(0.955)	300059	51.4	51.4
18	Methyl ethyl ketone	72.00	10.269	10.031	(0.812)	62521	47.4	47.4
19	Ethyl acetate	43.00	10.360	10.122	(0.973)	1787372	48.6	48.6
20	Bromochloromethane	128.00	10.649	10.395	(1.000)	198779	50.0	
21	Chloroform	83.00	10.798	10.544	(1.014)	604429	50.8	50.8
22	1,1,1-Trichloroethane	97.00	11.146	10.891	(0.881)	418285	48.9	48.9
23	Carbon tetrachloride	117.00	11.485	11.214	(0.908)	398581	53.2	53.2
$ 24	1,2-Dichloroethane-D4 (SURR)	65.00	11.791	11.520	(1.107)	390754	46.0	46.0
25	Benzene	78.00	11.907	11.620	(0.941)	877464	50.2	50.2
	1,2-Dichloroethane	62.00	11.931	11.678	(1.120)	495159	49.5	49.5
	1,4-Difluorobenzene	114.00	12.651	12.389	(1.000)	868490	50.0	
28	Trichloroethylene	130.00	13.196	12.918	(1.043)	345138	45.1	45.1
29	1,2-Dichloropropane	63.00	13.659	13.381	(1.030)	438169	50.0	50.0

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	30 Dichlorobromomethane	83.00	14.229	13.952	(1.125)	534943	49.0	49.0
	31 2-Chloroethylvinyl ether	63.00	14.825	14.555	(1.172)	97402	40.5	40.5
	32 cis-1,3-Dichloropropylene	75.00	15.147	14.861	(1.197)	501046	47.1	47.1
	33 Methyl-iso-butyl ketone	43.00	15.478	15.201	(0.823)	823141	46.3	46.3
$	34 Toluene-D8 (SURR)	98.00	15.718	15.424	(0.836)	850379	49.0	49.0
	35 Toluene	92.00	15.859	15.565	(0.844)	605758	49.6	49.6
	36 trans-1,3-Dichloropropylene	75.00	16.314	16.029	(1.290)	418908	48.4	48.4
	37 1,1,2-Trichloroethane	97.00	16.719	16.426	(1.322)	363005	48.9	48.9
	38 Tetrachloroethylene	164.00	17.050	16.757	(0.907)	481725	70.5	70.5
	39 2-Hexanone	43.00	17.257	16.972	(0.918)	621905	46.8	46.8
	40 Chlorodibromomethane	129.00	17.588	17.312	(1.390)	472154	50.3	50.3
	41 Ethylene dibromide	107.00	17.845	17.560	(0.949)	552343	48.6	48.6
*	42 Chlorobenzene-d5	117.00	18.795	18.535	(1.000)	711061	50.0	
	43 Chlorobenzene	112.00	18.853	18.594	(1.003)	730505	50.1	50.1
	44 Ethylbenzene	106.00	19.061	18.801	(1.014)	344591	48.8	48.8
	45 m+p-Xylenes	106.00	19.293	19.041	(1.026)	871908	100	100(H)
	46 o-Xylene	106.00	20.095	19.852	(1.069)	420514	48.7	48.7
	47 Styrene	104.00	20.120	19.877	(1.070)	678952	48.0	48.0
	48 Bromoform	173.00	20.517	20.266	(1.622)	382661	44.9	44.9
$	Bromofluorobenzene (SURR)	95.00	21.121	20.887	(1.124)	611936	48.2	48.2
	1,1,2,2-Tetrachloroethane	83.00	21.386	21.160	(1.138)	772403	45.5	45.5
	1,3-Dichlorobenzene	146.00	23.180	22.946	(1.233)	629373	46.8	46.8(H)
	52 1,4-Dichlorobenzene	146.00	23.337	23.112	(1.242)	708386	46.6	46.6(H)
	53 1,2-Dichlorobenzene	146.00	24.016	23.783	(1.278)	602241	45.8	45.8

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0102

VSPK01

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Matrix: (soil/water) SOIL Lab Sample ID: N2V4794VS

Sample wt/vol: 5.00 (g/mL) G Lab File ID: C6934

Level: (low/med) LOW Date Received: 11/14/95

% Moisture: not dec. N/A Date Analyzed: 11/21/95

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ~~5000~~ N/A (uL) Soil Aliquot Volume: ~~5000~~ N/A (uL)

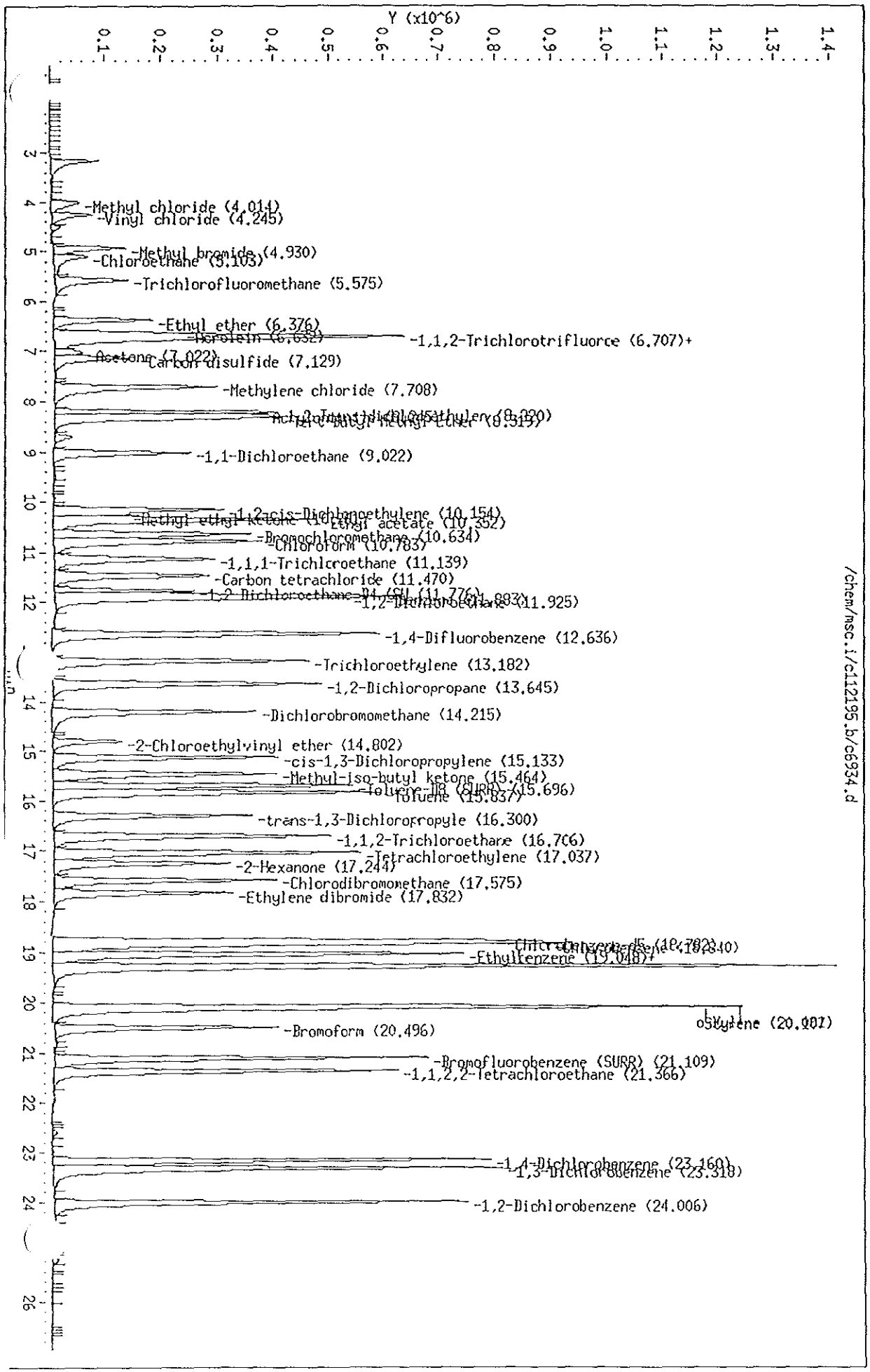
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	40	
74-83-9	Bromomethane	39	
75-01-4	Vinyl Chloride	38	
75-00-3	Chloroethane	38	
75-09-2	Methylene Chloride	46	B
67-64-1	Acetone	40	
75-15-0	Carbon Disulfide	36	
75-35-4	1,1-Dichloroethene	38	
75-34-3	1,1-Dichloroethane	41	
540-59-0	1,2-Dichloroethene (total)	82	
67-66-3	Chloroform	43	
107-06-2	1,2-Dichloroethane	43	
78-93-3	2-Butanone	41	
71-55-6	1,1,1-Trichloroethane	41	
56-23-5	Carbon Tetrachloride	45	
75-27-4	Bromodichloromethane	42	
78-87-5	1,2-Dichloropropane	42	
10061-01-5	cis-1,3-Dichloropropene	41	
79-01-6	Trichloroethene	39	B
124-48-1	Dibromochloromethane	43	
79-00-5	1,1,2-Trichloroethane	43	
71-43-2	Benzene	43	
10061-02-6	trans-1,3-Dichloropropene	41	
75-25-2	Bromoform	40	
108-10-1	Methyl-iso-butyl ketone	40	
591-78-6	2-Hexanone	41	
127-18-4	Tetrachloroethylene	41	B
79-34-5	1,1,2,2-Tetrachloroethane	41	
108-88-3	Toluene	41	
108-90-7	Chlorobenzene	44	
100-41-4	Ethylbenzene	43	
100-42-5	Styrene	43	
1330-20-7	Xylene (total)	78	B

0103

Data File: /chem/msc.i/c112195.b/c6934.d
Date : 21-NOV-95 12:17
Client ID: q2v4794 blk spk
Sample Info: q2v4794 blk spk rerun
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i
Operator: jk
Column diameter: 0.53



OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msc.i/c112195.b/c6934.d
Lab Smp Id: Client Smp ID: q2v4794 blk spk
Inj Date : 21-NOV-95 12:17
Operator : jjk Inst ID: msc.i
Smp Info : q2v4794 blk spk rerun
Misc Info : q2v4794vs,q2v4794,m2,5000,1,5.0,5.0,951121,
Comment :
Method : /chem/msc.i/c112195.b/110295_8240heatc.m
Meth Date : 21-Nov-1995 14:56 glenn Quant Type: ISTD
Cal Date : 21-NOV-95 07:41 Cal File: c6927.d
Als bottle: 6
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	Methyl chloride	50.00	4.014	3.882	(0.377)	256474	39.8	39.8
2	Vinyl chloride	62.00	4.245	4.105	(0.399)	261684	37.9	37.9
3	Methyl bromide	94.00	4.921	4.773	(0.463)	249728	39.3	39.3
4	Chloroethane	64.00	5.103	4.947	(0.480)	167761	38.2	38.2
5	Trichlorofluoromethane	101.00	5.575	5.418	(0.524)	366005	37.5	37.5
6	Ethyl ether	59.00	6.376	6.195	(0.600)	281386	38.0	38.0
7	Acrolein	56.00	6.632	6.443	(0.624)	397236	179	179
9	1,1,2-Trichlorotrifluoroethan	101.00	6.715	6.517	(0.631)	583216	37.3	37.3
8	1,1-Dichloroethylene	96.00	6.707	6.509	(0.631)	277934	37.7	37.7
10	Acetone	43.00	7.022	6.841	(0.660)	222367	40.2	40.2
11	Carbon disulfide	76.00	7.129	6.923	(0.670)	571692	35.8	35.8
12	Methylene chloride	84.00	7.708	7.510	(0.725)	402927	45.5	45.5
13	Acrylonitrile	53.00	8.245	8.039	(0.775)	170992	39.8	39.8
14	1,2-Trans-dichloroethylene	96.00	8.220	8.014	(0.773)	316663	38.9	38.9
15	Tert-Butyl Methyl Ether	73.00	8.319	8.114	(0.782)	885043	39.7	39.7
16	1,1-Dichloroethane	63.00	9.022	8.816	(0.848)	702449	40.9	40.9
17	1,2-cis-Dichloroethylene	96.00	10.154	9.915	(0.955)	341365	42.7	42.7
18	Methyl ethyl ketone	72.00	10.261	10.031	(0.812)	75603	41.4	41.4
19	Ethyl acetate	43.00	10.352	10.122	(0.974)	2116388	42.0	42.0
* 20	Bromochloromethane	128.00	10.634	10.395	(1.000)	272368	50.0	
21	Chloroform	83.00	10.783	10.544	(1.014)	704650	43.3	43.3
22	1,1,1-Trichloroethane	97.00	11.139	10.891	(0.881)	491276	41.4	41.4
23	Carbon tetrachloride	117.00	11.470	11.214	(0.908)	471352	45.4	45.4
$ 24	1,2-Dichloroethane-D4 (SURR)	65.00	11.767	11.520	(1.107)	501964	43.1	43.1
	Benzene	78.00	11.883	11.620	(0.940)	1042570	43.0	43.0
	1,2-Dichloroethane	62.00	11.925	11.678	(1.121)	592526	43.2	43.2
* 27	1,4-Difluorobenzene	114.00	12.636	12.389	(1.000)	1202778	50.0	
28	Trichloroethylene	130.00	13.182	12.918	(1.043)	409873	38.7	38.7
29	1,2-Dichloropropane	63.00	13.645	13.381	(1.080)	511002	42.1	42.1

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	30 Dichlorobromomethane	83.00	14.215	13.952	(1.125)	634059	41.9	41.9
	31 2-Chloroethylvinyl ether	63.00	14.794	14.555	(1.171)	144607	43.4	43.4
	32 cis-1,3-Dichloropropylene	75.00	15.125	14.861	(1.197)	597179	40.5	40.5
	33 Methyl-iso-butyl ketone	43.00	15.464	15.201	(0.823)	993895	40.3	40.3
$	34 Toluene-D8 (SURR)	98.00	15.696	15.424	(0.836)	976253	40.6	40.6
	35 Toluene	92.00	15.837	15.565	(0.843)	701902	41.4	41.4
	36 trans-1,3-Dichloropropylene	75.00	16.292	16.029	(1.289)	492259	41.1	41.1
	37 1,1,2-Trichloroethane	97.00	16.706	16.426	(1.322)	438014	42.6	42.6
	38 Tetrachloroethylene	164.00	17.037	16.757	(0.907)	386382	40.7	40.7
	39 2-Hexanone	43.00	17.244	16.972	(0.918)	749402	40.6	40.6
	40 Chlorodibromomethane	129.00	17.584	17.312	(1.392)	561494	43.2	43.2
	41 Ethylene dibromide	107.00	17.832	17.560	(0.949)	671900	42.6	42.6
•	42 Chlorobenzene-d5	117.00	18.782	18.535	(1.000)	987219	50.0	
	43 Chlorobenzene	112.00	18.840	18.594	(1.003)	893021	44.1	44.1
	44 Ethylbenzene	106.00	19.048	18.801	(1.014)	423475	43.2	43.2
	45 m+p-Xylenes	106.00	19.048	19.041	(1.014)	423475	35.0	35.0 (Q)
	46 o-Xylene	106.00	20.082	19.852	(1.069)	514125	42.9	42.9
	47 Styrene	104.00	20.107	19.877	(1.071)	846607	43.1	43.1
	48 Bromoform	173.00	20.496	20.266	(1.622)	476099	40.3	40.3
$	49 Bromofluorobenzene (SURR)	95.00	21.109	20.887	(1.124)	720684	40.9	40.9
	1,1,2,2-Tetrachloroethane	83.00	21.366	21.160	(1.138)	956685	40.6	40.6
	1,3-Dichlorobenzene	146.00	23.327	22.946	(1.242)	861618	46.1	46.1
	52 1,4-Dichlorobenzene	146.00	23.160	23.112	(1.233)	760279	36.0	36.0
	53 1,2-Dichlorobenzene	146.00	24.006	23.783	(1.278)	752441	41.2	41.2

QC Flag Legend

Q - Qualifier signal failed the ratio test.

ORGANICS

Water Volatile Organics by GC/MS

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC 0107

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLK01	108	104	101		0
02	CLJ78TW004	110	105	102		0
03	CLJ78TW001	103	101	99		0
04	CLJ78TW002	108	107	94		0
05	CLJ78TW003	110	105	104		0
06	CLJ78-FB	108	104	101		0
07	CLJ78-RB	109	103	106		0
08	CLJ78TW02D	103	107	99		0
09	CLJ78TW02DMS	105	110	111		0
10	CLJ78TW02DMSD	99	108	107		0
11	VSPK01	98	99	109		0

		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(88-110)
SMC2 (BFB)	= Bromofluorobenzene	(86-115)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring compound diluted out

3A
WATER VOLATILE MATRIX SPIKE RECOVERY

0108

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Matrix Spike - EPA Sample No.: CLJ78TW02D

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethylene	500	0	500	100	61-145
Trichloroethylene	500	47	530	97	71-120
Benzene	500	0	510	102	76-127
Toluene	500	0	500	100	76-125
Chlorobenzene	500	0	510	102	75-130
1,2-cis-Dichloroethylene	500	130	620	98	30-130

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

* Values outside of QC limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS:

3A
WATER VOLATILE MATRIX SPIKE DUPLICATE RECOVERY

0109

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Matrix Spike - EPA Sample No.: CLJ78TW02D

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethylene	500	510	102	2	14	61-145
Trichloroethylene	500	550	101	4	14	71-120
Benzene	500	510	102	0	11	76-127
Toluene	500	490	98	2	13	76-125
Chlorobenzene	500	500	100	2	13	75-130
1,2-cis-Dichloroethylene	500	610	96	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 6 outside limits
Spike Recovery: 0 out of 6 outside limits

COMMENTS:

3A
WATER VOLATILE BLANK SPIKE RECOVERY

0110

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Matrix Spike - EPA Sample No.: VSPK01

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC LIMITS REC.
1,1-Dichloroethylene	50	0	51	102	61-145
Trichloroethylene	50	0	50	100	71-120
Benzene	50	0	50	100	76-127
Toluene	50	0	49	98	76-125
Chlorobenzene	50	0	49	98	75-130
1,2-cis-Dichloroethylene	50	0	48	96	30-130

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

* Values outside of QC limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

0111 VBLK01

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Lab File ID: A5300 Lab Sample ID: N1V4782V

Date Analyzed: 11/18/95 Time Analyzed: 20:27

GC Column: DB625 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: SA

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	CLJ78TW004	JP0327V	A5301	21:17
02	CLJ78TW001	JP0323V	A5302	21:49
03	CLJ78TW002	JP0324V	A5303	22:23
04	CLJ78TW003	JP0326V	A5305	23:30
05	CLJ78-FB	JP0328V	A5306	00:03
06	CLJ78-RB	JP0329V	A5307	00:36
07	CLJ78TW02D	JP0325V	A5319	18:40
08	CLJ78TW02DMSD	JP0325VR	A5321	19:47
09	VSPK01	N1V4782VS	A5394	11:02
10	CLJ78TW02DMS	JP0325VS	A5320	19:13

COMMENTS:

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: OHM Analytical Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Lab File ID: A5288 BFB Injection Date: 11/18/95

Instrument ID: msa.i BFB Injection Time: 1317

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	25.58
75	30.0 - 66.0% of mass 95	59.07
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	7.56
173	Less than 2.0% of mass 174	0.46 (0.61) 1
174	50.0 - 120.0% of mass 95	74.72
175	4.0 - 9.0 % of mass 174	6.60 (8.83) 1
176	93.0 - 101.0% of mass 174	74.93 (100.29) 1
177	5.0 - 9.0% of mass 176	5.72 (7.63) 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	VSTD 010	VSTD 010	a5292	11-18-95	1557
02	VSTD 020	VSTD 020	a5293	11-18-95	1630
03	VSTD 050	VSTD 050	a5294	11-18-95	1703
04	VSTD 100	VSTD 100	a5295	11-18-95	1736
05	VSTD200	VSTD200	a5296	11-18-95	1809
06	VBLK01	NIV4782V	a5300	11-18-95	2027
07	CLJ78TW004	JP0327V	a5301	11-18-95	2117
08	CLJ78TW001	JP0323V	a5302	11-18-95	2149
09	CLJ78TW002	JP0324V	a5303	11-18-95	2223
10	CLJ78TW003	JP0326V	a5305	11-18-95	2330
11	CLJ78-FB	JP0328V	a5306	11-19-95	0003
12	CLJ78-RB	JP0329V	a5307	11-19-95	0036
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: OHM Analytical Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Lab File ID: a 5311 BFB Injection Date: 11-19-95

Instrument ID: msa. i BFB Injection Time: 1341

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	27.05
75	30.0 - 66.0% of mass 95	59.23
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	7.69
173	Less than 2.0% of mass 174	0.36 (0.46) 1
174	50.0 - 120.0% of mass 95	77.55
175	4.0 - 9.0 % of mass 174	6.72 (8.66) 1
176	93.0 - 101.0% of mass 174	72.90 (94.00) 1
177	5.0 - 9.0% of mass 176	5.11 (7.01) 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	CLJ78TW02D	JP0325V	A5319	11-19-95	1840
02	CLJ78TW02DMS	JP0325VS	A5320	11-19-95	1913
03	CLJ78TW02DMSD	JP0325VR	A5321	11-19-95	1947
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
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15					
16					
17					
18					
19					
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21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

0114

Lab Name: OHM Analytical Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Lab File ID: a5391 BFB Injection Date: 11-24-95

Instrument ID: msa.1 BFB Injection Time: 0908

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	25.90
75	30.0 - 66.0% of mass 95	57.26
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	8.16
173	Less than 2.0% of mass 174	0.00 (0.00) 1
174	50.0 - 120.0% of mass 95	73.27
175	4.0 - 9.0 % of mass 174	6.37 (8.69) 1
176	93.0 - 101.0% of mass 174	72.31 (98.69) 1
177	5.0 - 9.0% of mass 176	4.83 (6.68) 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	VSPK01	N1V4782VS	A5394	11-24-95	1102
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0115

Lab Name: OHM Analytical Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Lab File ID (Standard): a5294 Date Analyzed: 11-18-95

Instrument ID: msa.1 Time Analyzed: 1703

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

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	186490	11.00	735358	12.57	607947	17.51
	UPPER LIMIT	372980	11.50	1450716	13.07	1215894	18.01
	LOWER LIMIT	93245	10.50	362679	12.07	303974	17.01
	EPA SAMPLE NO.						
01	VB1K01	171991	11.00	680169	12.57	546406	17.51
02	CLJ78TW004	183475	11.00	727259	12.57	572768	17.51
03	CLJ78TW001	189506	11.01	726299	12.57	574839	17.50
04	CLJ78TW002	190316	11.00	723858	12.56	572252	17.50
05	CLJ78TW003	98348	11.00	384236	12.57	309468	17.51
06	CLJ78-FB	166381	11.01	640741	12.58	518076	17.50
07	CLJ78-RB	179179	11.00	706265	12.57	570963	17.51
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

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

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

page ___ of ___

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0116

Lab Name: OHM Analytical Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Lab File ID (Standard): a5312 Date Analyzed: 11-19-95

Instrument ID: msa.1 Time Analyzed: 1440

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

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	211204	11.00	823604	12.57	671354	17.51
	UPPER LIMIT	422408	11.50	1647208	13.07	1342708	18.01
	LOWER LIMIT	105602	10.50	411802	12.07	335677	17.01
	EPA SAMPLE NO.						
01	CLJ78TW02D	193107	11.00	744266	12.56	609254	17.50
02	CLJ78TW02DMS	190115	11.01	752489	12.56	612408	17.50
03	CLJ78TW02DMSD	187694	11.00	721864	12.56	595379	17.50
04							
05							
06							
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15							
16							
17							
18							
19							
20							
21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

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

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

page ___ of ___

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0117

Lab Name: OHM Analytical Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Lab File ID (Standard): a5392 Date Analyzed: 11-24-95

Instrument ID: msa.1 Time Analyzed: 0932

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

	IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
12 HOUR STD	230982	11.01	897746	12.57	788950	17.49
UPPER LIMIT	461964	11.51	1795492	13.07	1457900	17.99
LOWER LIMIT	115491	10.51	448873	12.07	364475	16.99
EPA SAMPLE NO.						
01 VSPK01	245339	11.01	946316	1256	779081	17.49
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

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

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

page ___ of ___

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0118 CLJ78-FB

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Matrix: (soil/water) WATER Lab Sample ID: JP0328V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: A5306

Level: (low/med) LOW Date Received: 11/14/95

% Moisture: not dec. N/A Date Analyzed: 11/19/95

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0119 CLJ78-FB

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Matrix: (soil/water) WATER Lab Sample ID: JP0328V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: A5306

Level: (low/med) LOW Date Received: 11/14/95

% Moisture: not dec. N/A Date Analyzed: 11/19/95

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

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

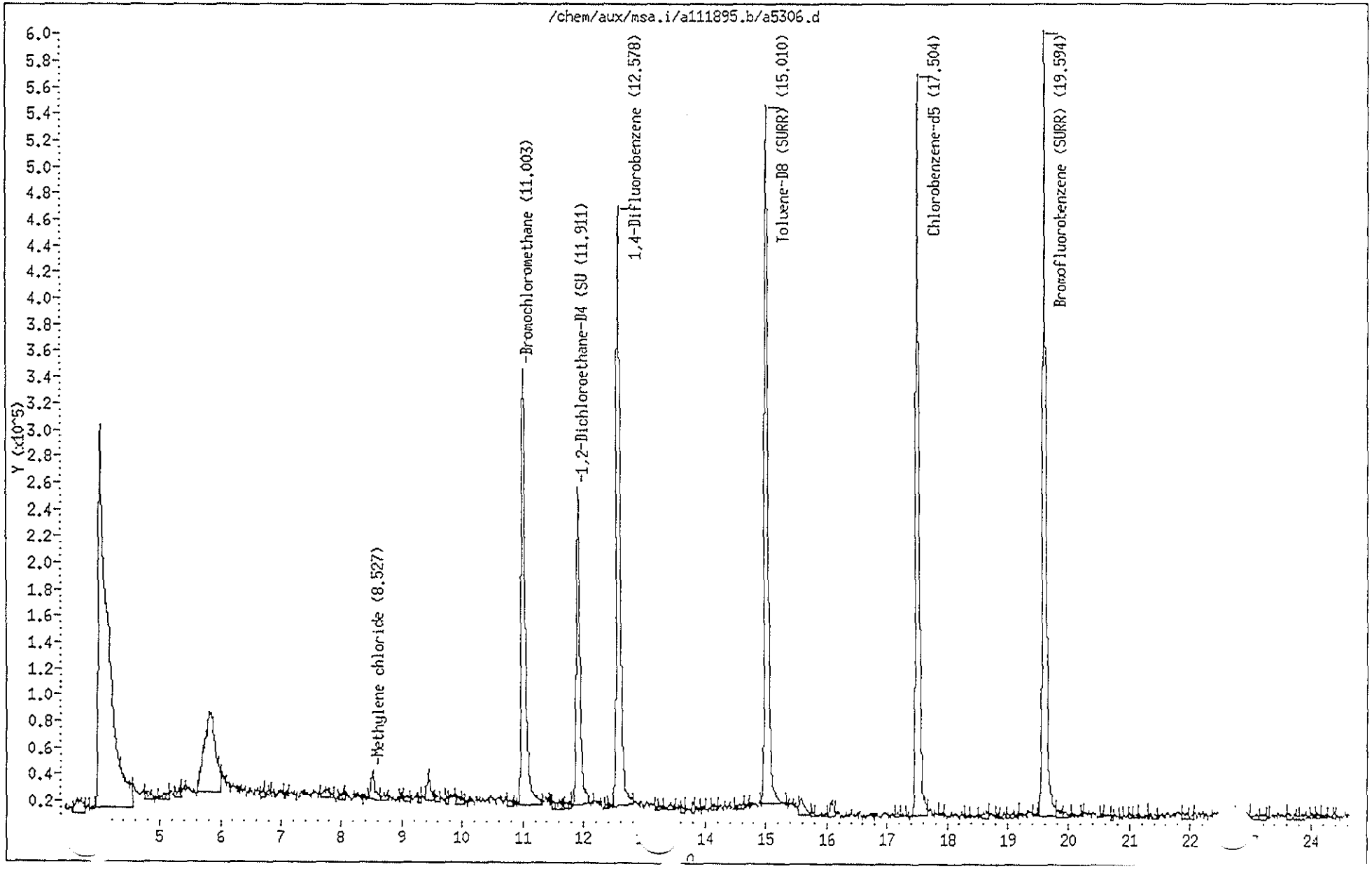
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	5.81	26	J

0120

Data File: /chem/aux/msa.i/a111895.b/a5306.d
Date : 19-NOV-95 00:03
Client ID: 17418n clj78-fb
Sample Info: 17418n clj78 - fb
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msa.i

Operator: jk
Column diameter: 0.53



Data File: /chem/aux/msa.i/a111895.b/a5306.d
Report Date: 22-Nov-1995 17:38

OHM Analytical Division

+ Screen

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/aux/msa.i/a111895.b/a5306.d
Lab Smp Id: Client Smp ID: 17418n clj78-fb
Inj Date : 19-NOV-95 00:03
Operator : jk Inst ID: msa.i
Smp Info : 17418n clj78 - fb
Misc Info : jp0328v,n1v4782,m2,5000,1,5.0,5.0,951118,
Comment :
Method : /chem/aux/msa.i/a111895.b/111895_8240ambia.m
Meth Date : 22-Nov-1995 17:34 glenn Quant Type: ISTD
Cal Date : 18-NOV-95 17:03 Cal File: a5294.d
Als bottle: 6
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

MK 11/24

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
4 Methylene chloride	84.00	8.527	8.520	(0.774)	19152	3.25	3.25
* 20 Bromochloromethane	128.00	11.013	11.007	(1.000)	166381	50.0	
$ 24 1,2-Dichloroethane-D4 (SURR)	65.00	11.911	11.916	(1.082)	365368	50.6	50.6
* 27 1,4-Difluorobenzene	114.00	12.578	12.573	(1.000)	640741	50.0	
$ 34 Toluene-D8 (SURR)	98.00	15.010	15.017	(0.858)	668583	54.1	54.1
* 42 Chlorobenzene-d5	117.00	17.504	17.506	(1.000)	518076	50.0	
$ 49 Bromofluorobenzene (SURR)	95.00	19.594	19.587	(1.119)	382067	52.0	52.0

Data File: /chem/aux/msa.i/a111895.b/a5306.d

Date : 19-NOV-95 00:03

Client ID: 17418n clj78-fb

Instrument: msa.i

Sample Info: 17418n clj78 - fb

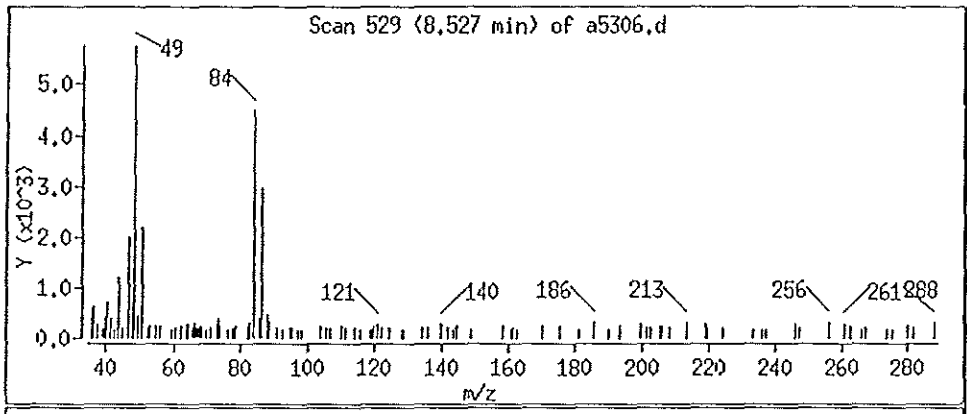
Purge Volume: 1.0

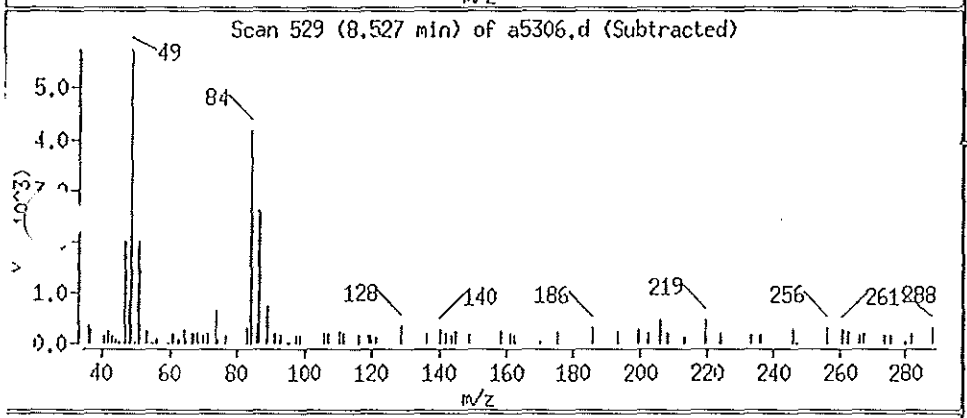
Operator: jk

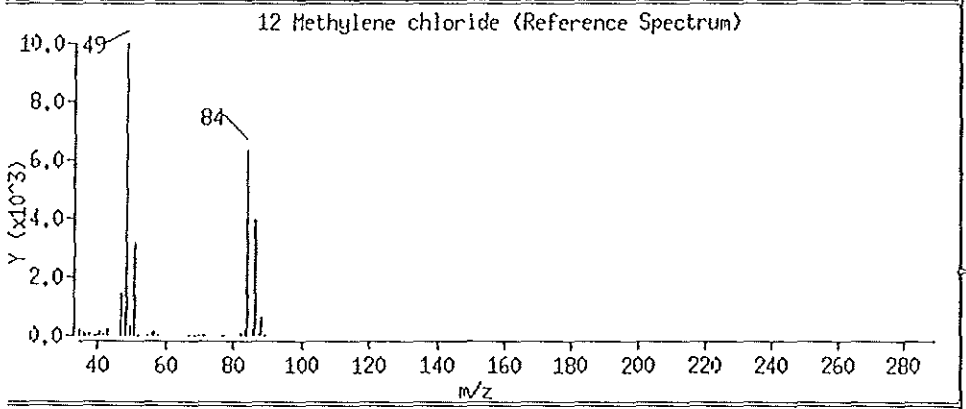
Column phase: J&W DB_624

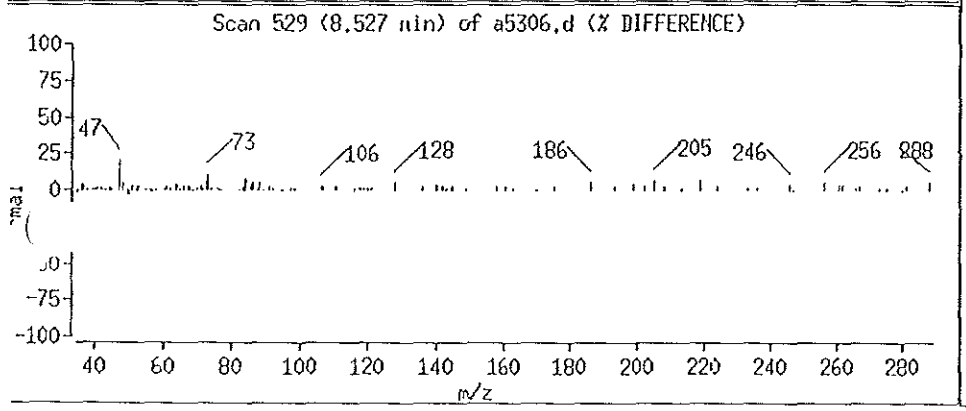
Column diameter: 0.53

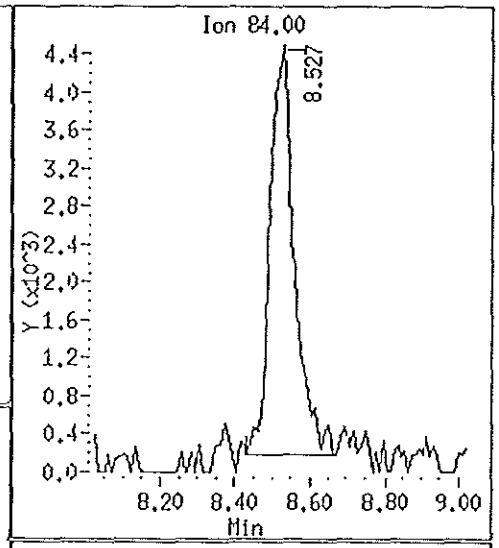
12 Methylene chloride

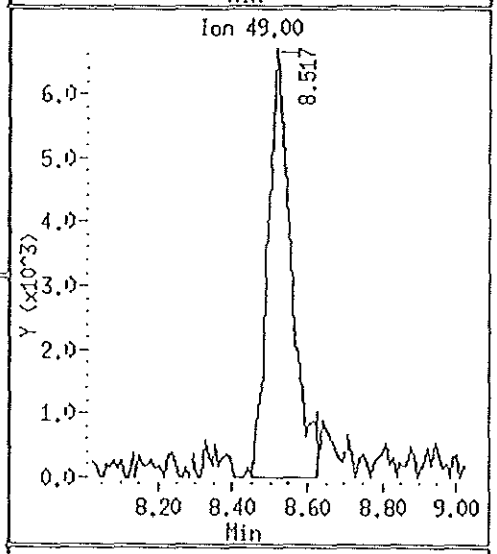


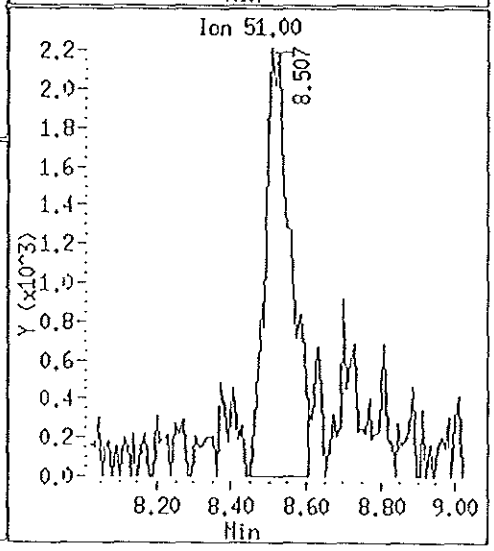












Data File: /chem/aux/msa.i/a111895.b/a5306.d

Date : 19-NOV-95 00:03

.ient ID: 17418n clj78-fb

Instrument: msa.i

Sample Info: 17418n clj78 - fb

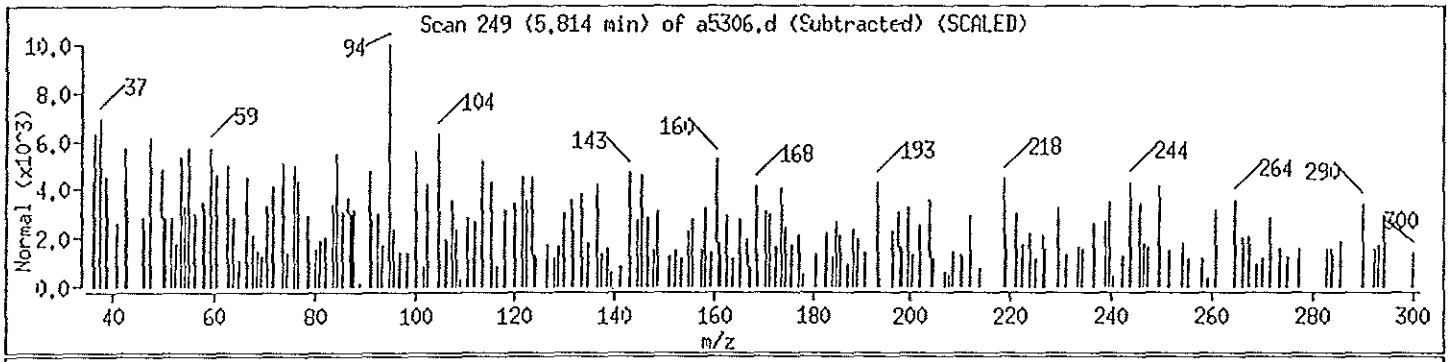
Purge Volume: 1.0

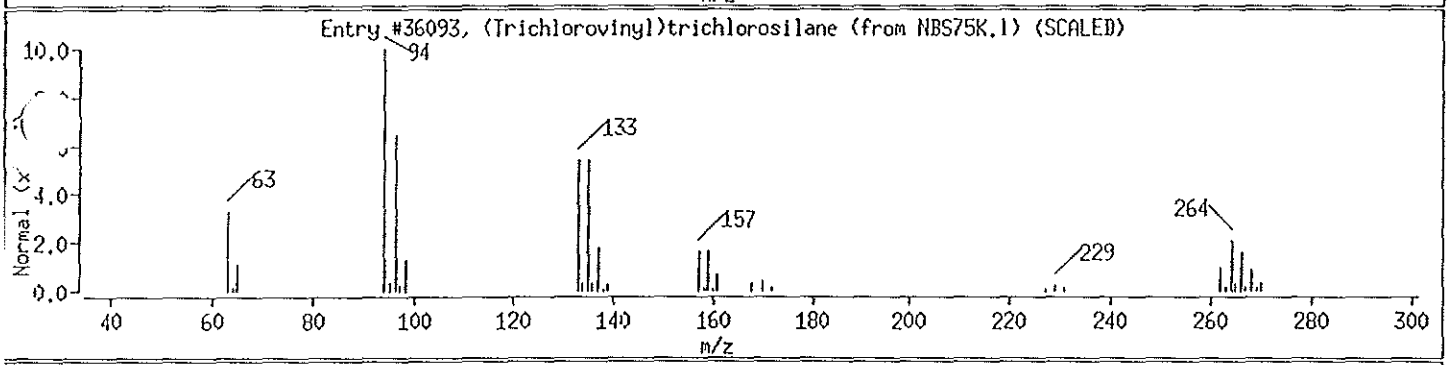
Operator: jk

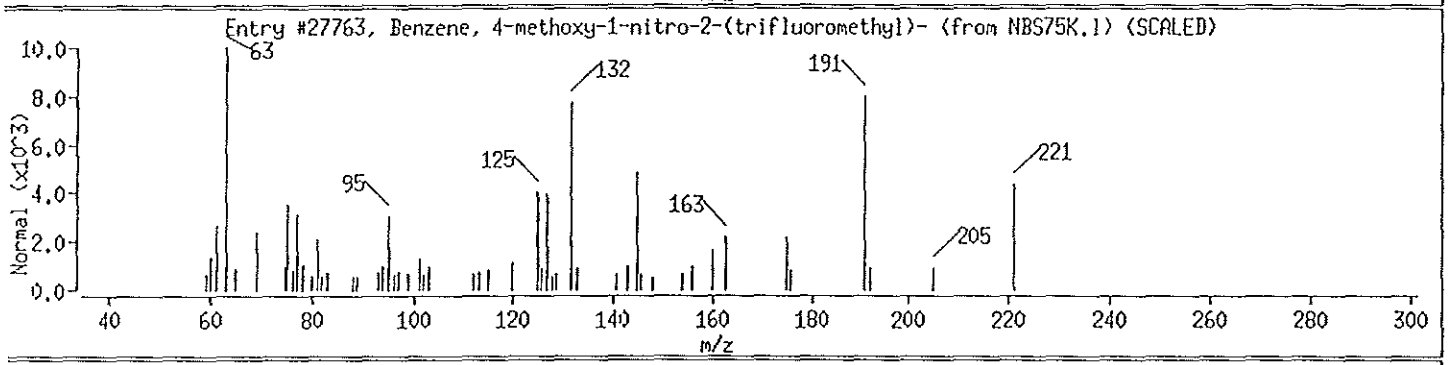
Column phase: J&W DB_624

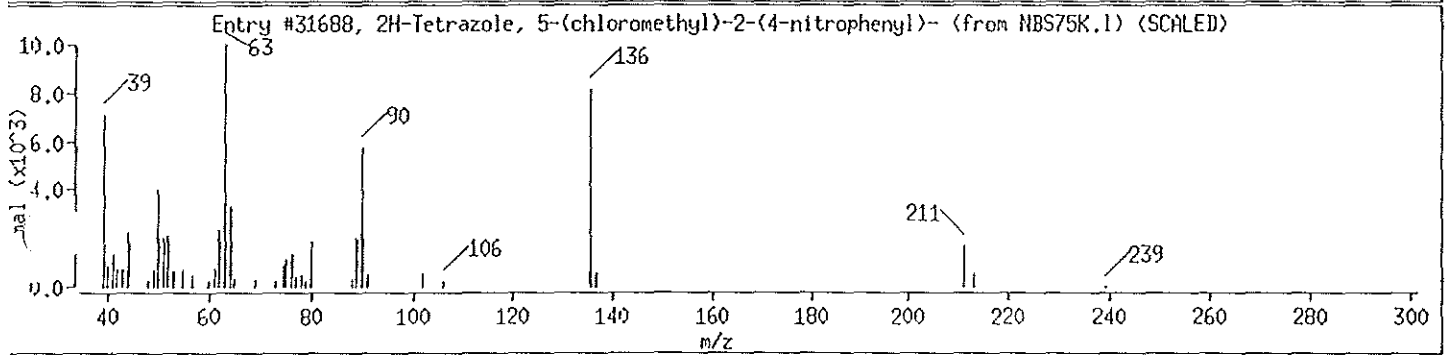
Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
(Trichlorovinyl)trichlorosilane	0-00-0	NBS75K.l	36093	45	C2Cl6Si	262
Benzene, 4-methoxy-1-nitro-2-(trifluorom	344-39-8	NBS75K.l	27763	43	C8H6F3NO3	221
2H-Tetrazole, 5-(chloromethyl)-2-(4-nitr	65251-34-5	NBS75K.l	31688	10	C8H6ClN5O2	239









1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0124

CLJ78-RB

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Matrix: (soil/water) WATER Lab Sample ID: JP0329V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: A5307

Level: (low/med) LOW Date Received: 11/14/95

% Moisture: not dec. N/A Date Analyzed: 11/19/95

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CLJ78-RB

0125

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Matrix: (soil/water) WATER Lab Sample ID: JP0329V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: A5307

Level: (low/med) LOW Date Received: 11/14/95

% Moisture: not dec. N/A Date Analyzed: 11/19/95

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

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

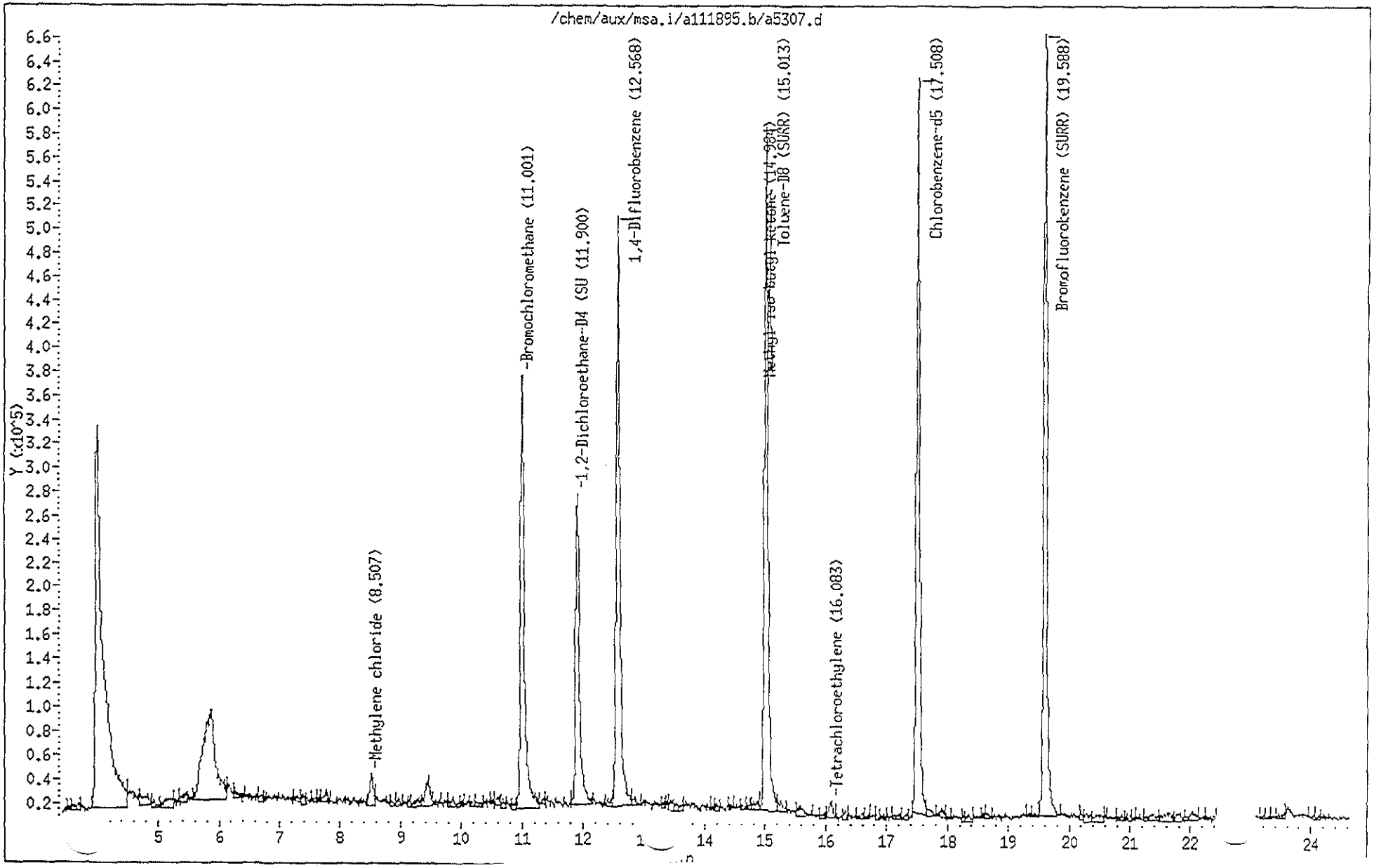
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	5.85	33	J

0126

Data File: /chem/aux/msa.i/a111895.b/a5307.d
Date : 19-NOV-95 00:36
Client ID: 17418n clj78-rb
Sample Info: 17418n clj78 - rb
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msa.i

Operator: jk
Column diameter: 0.53



OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240 & Screen

Data file : /chem/aux/msa.i/a111895.b/a5307.d
Lab Smp Id: Client Smp ID: 17418n clj78-rb
Inj Date : 19-NOV-95 00:36
Operator : jk Inst ID: msa.i
Smp Info : 17418n clj78 - rb
Misc Info : jp0329v,n1v4782,m2,5000,1,5.0,5.0,951118,
Comment :
Method : /chem/aux/msa.i/a111895.b/111895_8240ambia.m
Meth Date : 22-Nov-1995 17:34 glenn Quant Type: ISTD
Cal Date : 18-NOV-95 17:03 Cal File: a5294.d
Als bottle: 7
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

MK 11/24/95

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
Methylene chloride	84.00	8.517	8.520	(0.774)	22751	3.58	3.58
20 Bromochloromethane	128.00	11.001	11.007	(1.000)	179179	50.0	
24 1,2-Dichloroethane-D4 (SURR)	65.00	11.900	11.916	(1.082)	411118	52.9	52.9
27 1,4-Difluorobenzene	114.00	12.568	12.573	(1.000)	706265	50.0	
33 Methyl-iso-butyl ketone	43.00	14.984	14.737	(0.856)	8154	1.34	~~1.34 (Q)~~
34 Toluene-D8 (SURR)	98.00	15.013	15.017	(0.858)	739760	54.4	54.4
38 Tetrachloroethylene	164.00	16.083	16.089	(0.919)	5891	1.20	1.20
42 Chlorobenzene-d5	117.00	17.508	17.506	(1.000)	570963	50.0	
49 Bromofluorobenzene (SURR)	95.00	19.588	19.587	(1.119)	418368	51.6	51.6

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: /chem/aux/msa.i/a111895.b/a5307.d

Date : 19-NOV-95 00:36

ient ID: 17418n clj78-rb

Instrument: msa.i

Sample Info: 17418n clj78 - rb

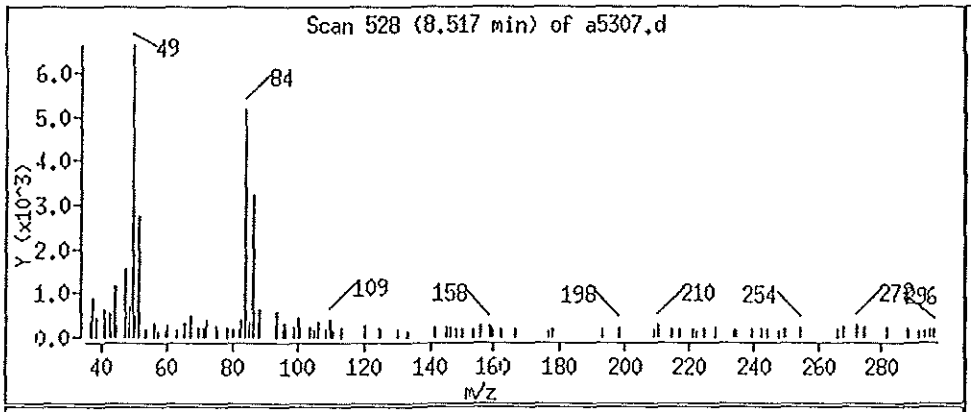
Purge Volume: 1.0

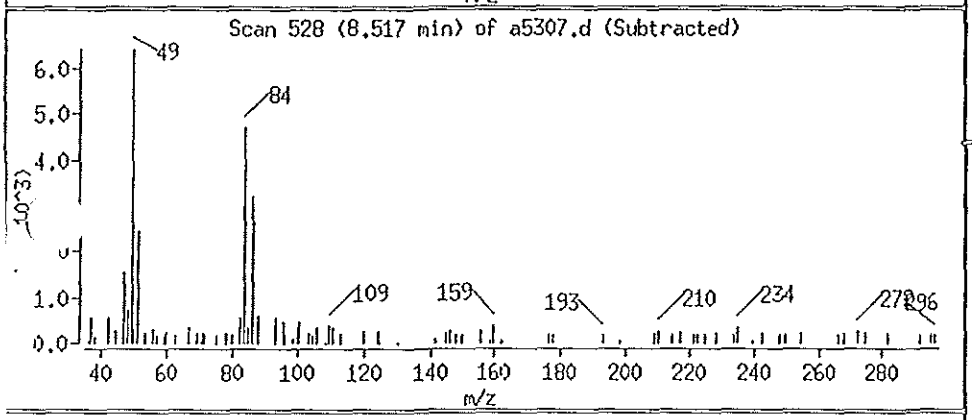
Operator: jk

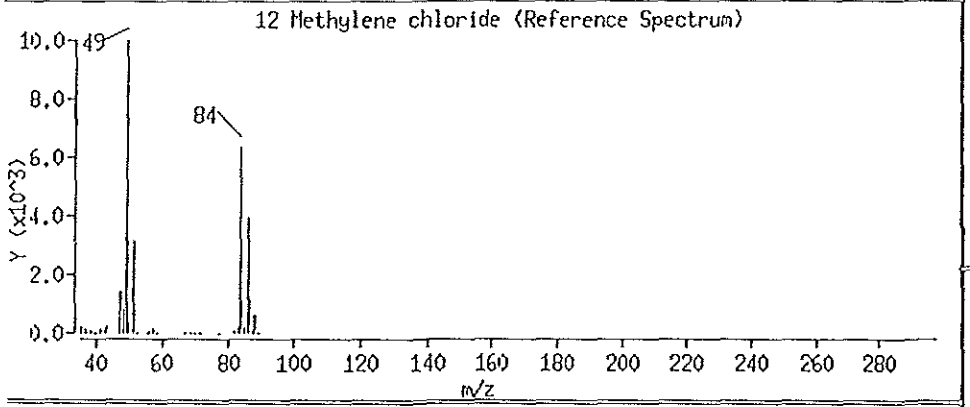
Column phase: J&W DB_624

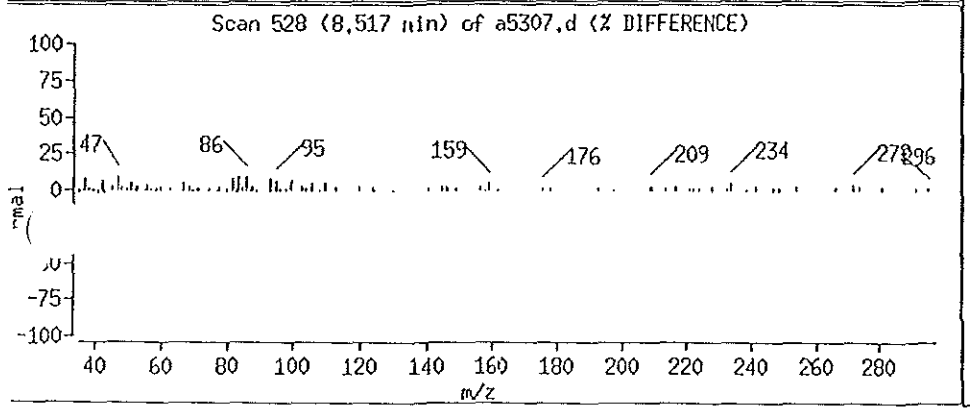
Column diameter: 0.53

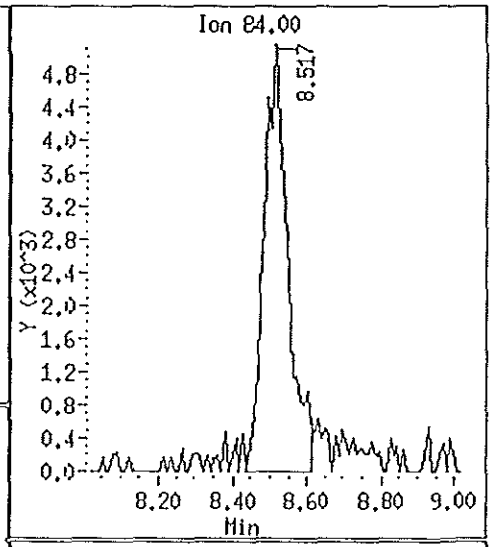
12 Methylene chloride

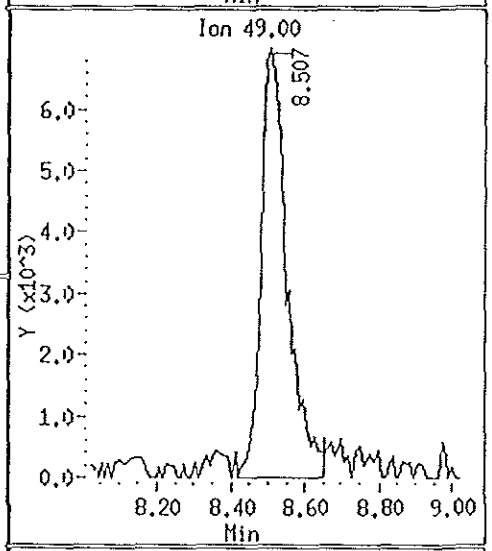


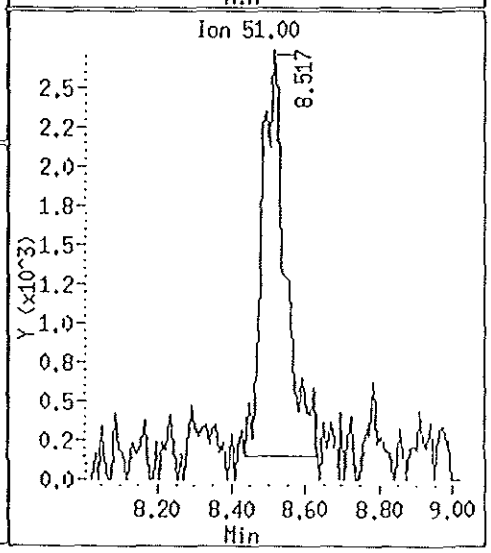












Data File: /chem/aux/msa.i/a111895.b/a5307.d

Date : 19-NOV-95 00:36

lient ID: 17418n clj78-rb

Instrument: msa.i

Sample Info: 17418n clj78 - rb

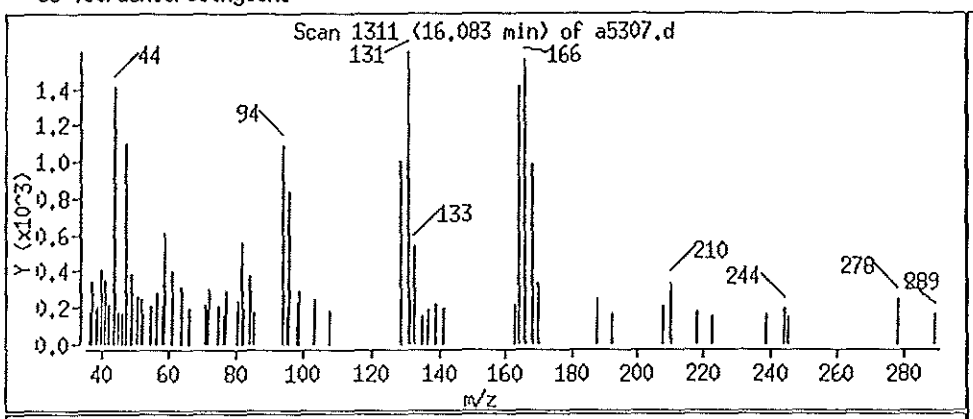
Purge Volume: 1.0

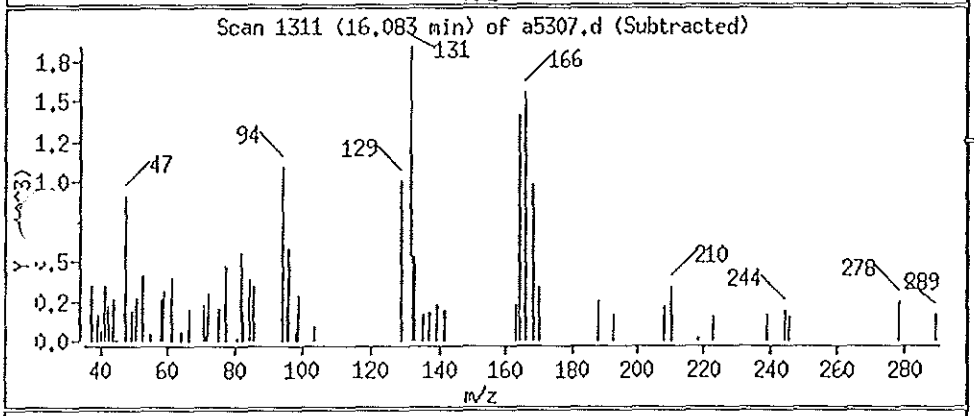
Operator: jk

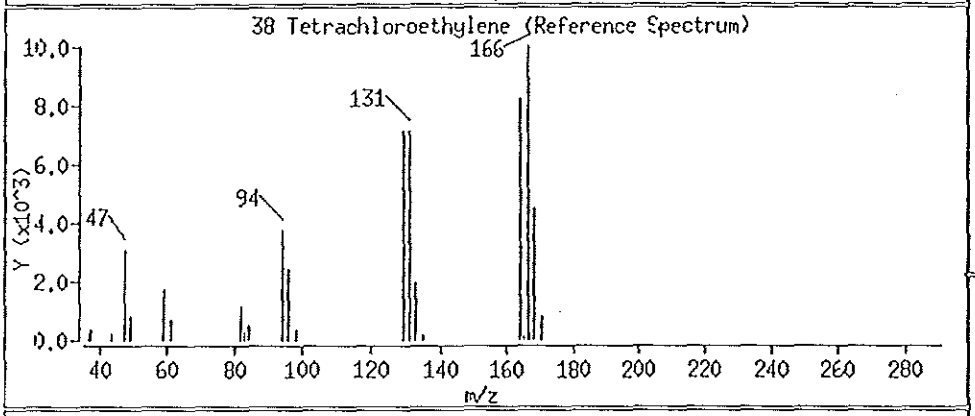
Column phase: J&W DB_624

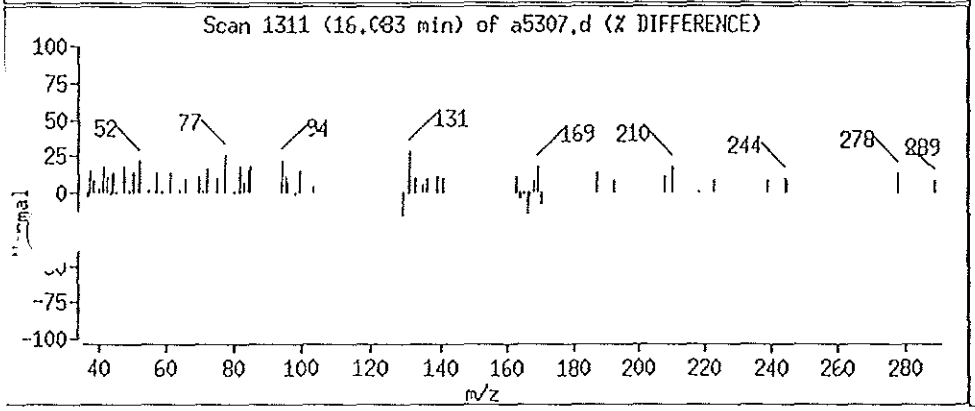
Column diameter: 0.53

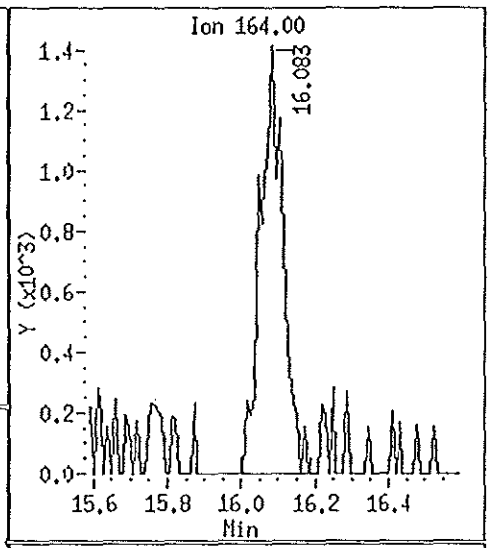
38 Tetrachloroethylene

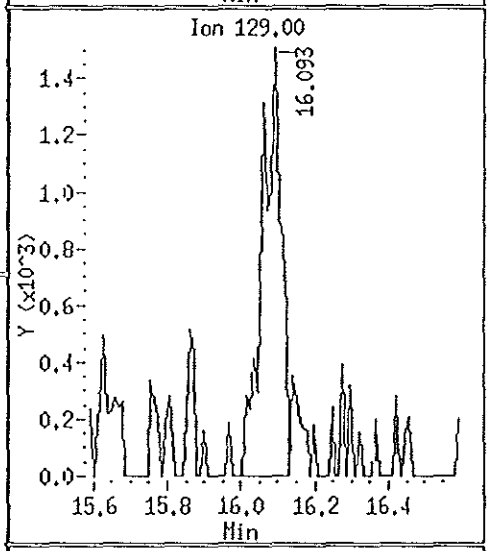


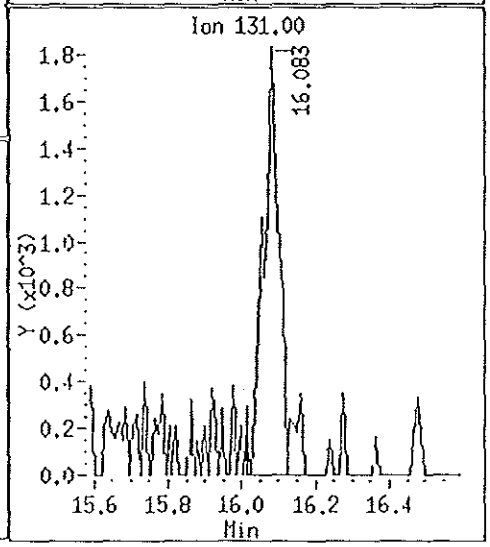








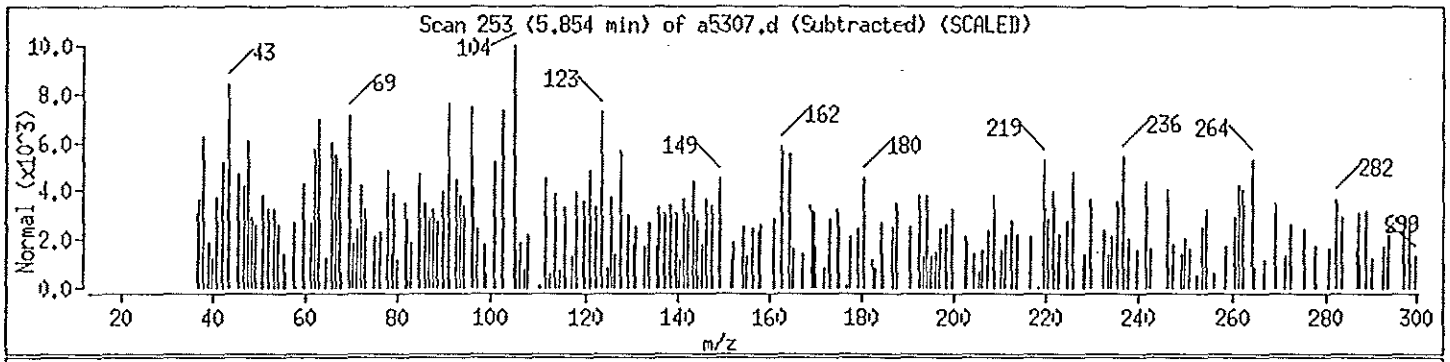


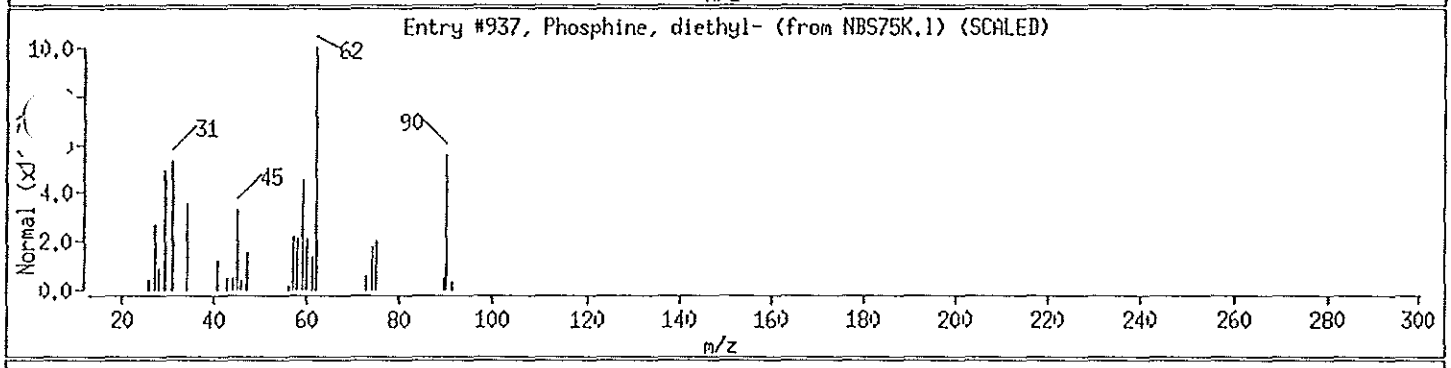


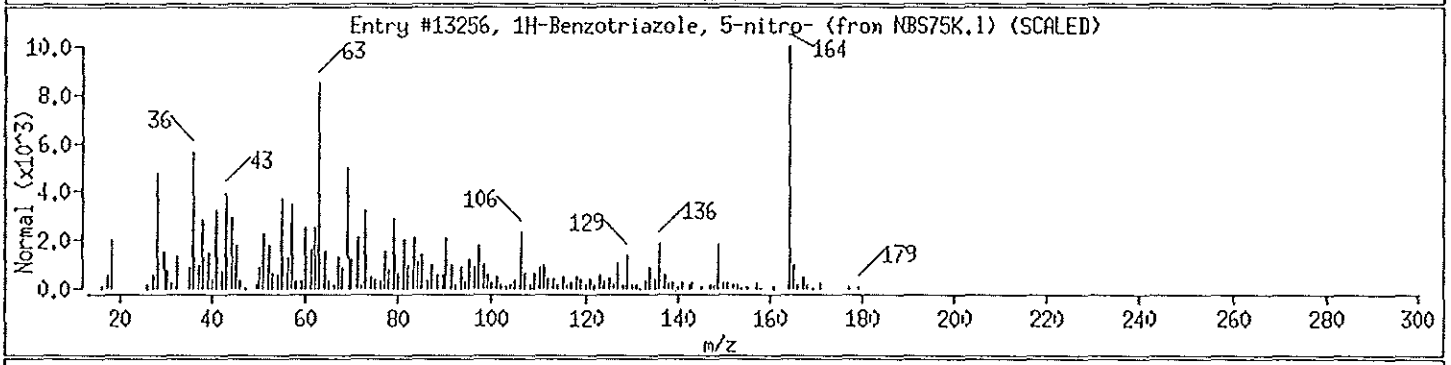
Data File: /chem/aux/msa.i/a111895.b/a5307.d
Date : 19-NOV-95 00:36
lient ID: 17418n clj78-rb
Sample Info: 17418n clj78 - rb
Purge Volume: 1.0
Column phase: J&W DB_624

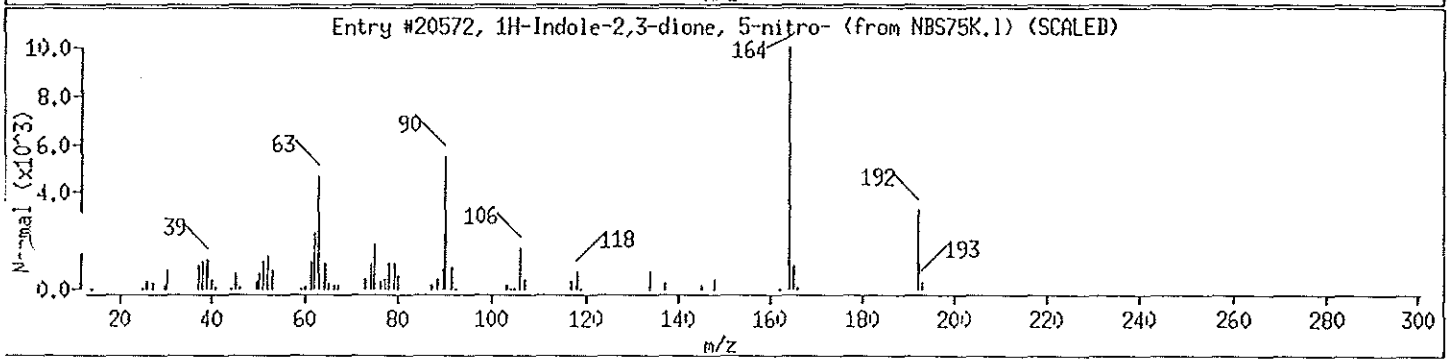
Instrument: msa.i
Operator: jk
Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Phosphine, diethyl-	627-49-6	NBS75K.l	937	32	C4H11P	90
1H-Benzotriazole, 5-nitro-	2338-12-7	NBS75K.l	13256	32	C6H4N4O2	164
1H-Indole-2,3-dione, 5-nitro-	611-09-6	NBS75K.l	20572	30	C8H4N2O4	192









1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0131

CLJ78TW001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Matrix: (soil/water) WATER Lab Sample ID: JP0323V

Sample wt/vol: .25 (g/mL) ML Lab File ID: A5302

Level: (low/med) LOW Date Received: 11/14/95

% Moisture: not dec. N/A Date Analyzed: 11/18/95

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	100	U
74-83-9	Bromomethane	100	U
75-01-4	Vinyl Chloride	100	U
75-00-3	Chloroethane	100	U
75-09-2	Methylene Chloride	87	BJ
67-64-1	Acetone	200	U
75-15-0	Carbon Disulfide	100	U
75-35-4	1,1-Dichloroethene	100	U
75-34-3	1,1-Dichloroethane	100	U
540-59-0	1,2-Dichloroethene (total)	100	U
67-66-3	Chloroform	100	U
107-06-2	1,2-Dichloroethane	100	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	100	U
56-23-5	Carbon Tetrachloride	100	U
75-27-4	Bromodichloromethane	100	U
78-87-5	1,2-Dichloropropane	100	U
10061-01-5	cis-1,3-Dichloropropene	100	U
79-01-6	Trichloroethene	28	J
124-48-1	Dibromochloromethane	100	U
79-00-5	1,1,2-Trichloroethane	100	U
71-43-2	Benzene	100	U
10061-02-6	trans-1,3-Dichloropropene	100	U
75-25-2	Bromoform	100	U
108-10-1	Methyl-iso-butyl ketone	200	U
591-78-6	2-Hexanone	100	U
127-18-4	Tetrachloroethylene	1600	B
79-34-5	1,1,2,2-Tetrachloroethane	100	U
108-88-3	Toluene	100	U
108-90-7	Chlorobenzene	100	U
100-41-4	Ethylbenzene	100	U
100-42-5	Styrene	100	U
1330-20-7	Xylene (total)	100	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS . 0132

EPA SAMPLE NO.

CLJ78TW001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Matrix: (soil/water) WATER Lab Sample ID: JP0323V

Sample wt/vol: .25 (g/mL) ML Lab File ID: A5302

Level: (low/med) LOW Date Received: 11/14/95

% Moisture: not dec. N/A Date Analyzed: 11/18/95

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

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

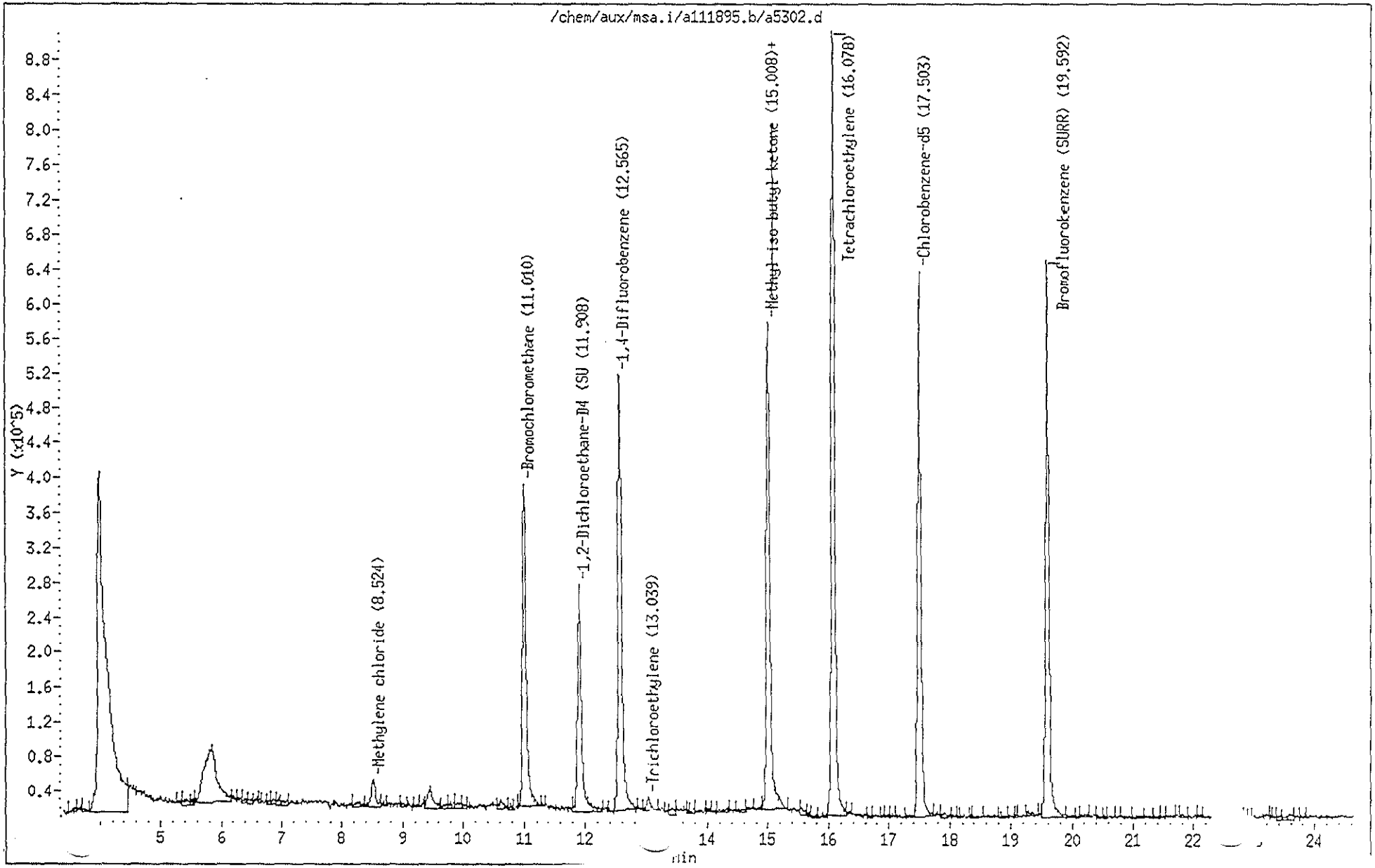
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	5.85	600	J

0133

Data File: /chem/aux/msa.i/a111895.b/a5302.d
Date : 18-NOV-95 21:49
Client ID: 17418n clj78tw001
Sample Info: 17418n clj78tw001 20x
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msa.i

Operator: jk
Column diameter: 0.53



OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/aux/msa.i/a111895.b/a5302.d
Lab Smp Id: Client Smp ID: 17418n clj78tw001
Inj Date : 18-NOV-95 21:49
Operator : jk Inst ID: msa.i
Smp Info : 17418n clj78tw001 20x
Misc Info : jp0323v,nlv4782,m2,5000,1,0.25,5.0,951118,
Comment :
Method : /chem/aux/msa.i/a111895.b/111895_8240ambia.m
Meth Date : 22-Nov-1995 17:34 glenn Quant Type: ISTD
Cal Date : 18-NOV-95 17:03 Cal File: a5294.d
Als bottle: 2
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

Co	nds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	Methylene chloride	84.00	8.515	8.520	(0.773)	29181	4.34	4.34
* 20	Bromochloromethane	128.00	11.010	11.007	(1.000)	189506	50.0	
S 24	1,2-Dichloroethane-D4 (SURR)	65.00	11.908	11.916	(1.082)	405834	49.4	49.4
* 27	1,4-Difluorobenzene	114.00	12.565	12.573	(1.000)	726299	50.0	
28	Trichloroethylene	130.00	13.048	13.047	(1.038)	8206	1.40	1.40
33	Methyl-iso-butyl ketone	43.00	15.008	14.737	(0.857)	7526	1.22	~~1.22(Q)~~ 12.5
S 34	Toluene-D8 (SURR)	98.00	15.008	15.017	(0.857)	708588	51.7	51.7
38	Tetrachloroethylene	164.00	16.078	16.089	(0.919)	400321	80.9	80.9
* 42	Chlorobenzene-d5	117.00	17.503	17.506	(1.000)	574839	50.0	
S 49	Bromofluorobenzene (SURR)	95.00	19.592	19.587	(1.119)	410323	50.3	50.3

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: /chem/aux/msa.i/a111895.b/a5302.d

Date : 18-NOV-95 21:49

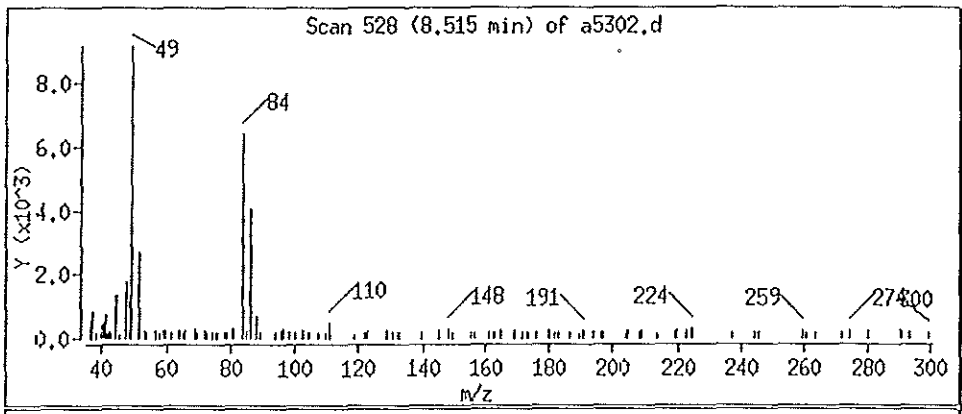
Client ID: 17418n clj78tw001 Instrument: msa.i

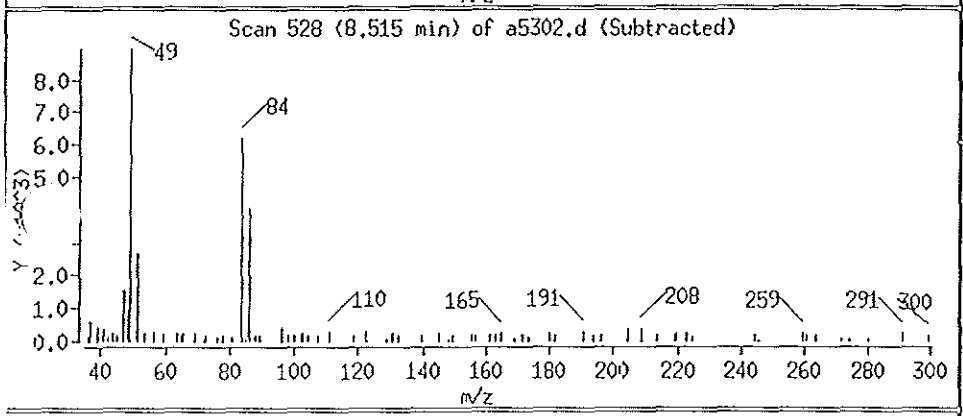
Sample Info: 17418n clj78tw001 20x

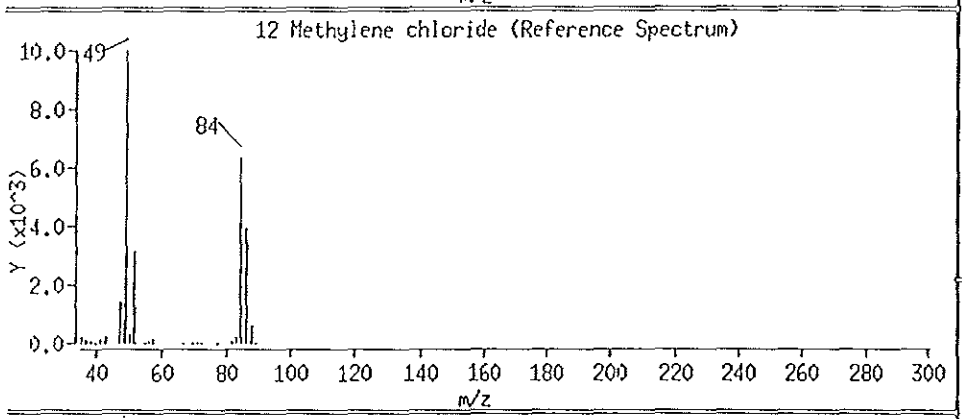
Purge Volume: 1.0 Operator: jk

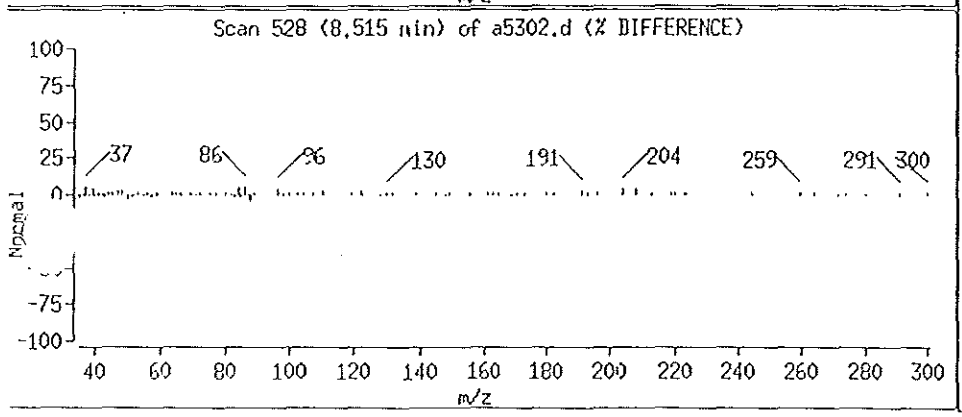
Column phase: J&W DB_624 Column diameter: 0.53

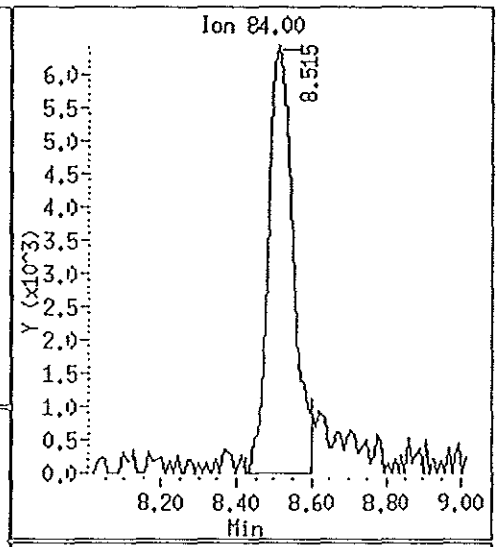
12 Methylene chloride

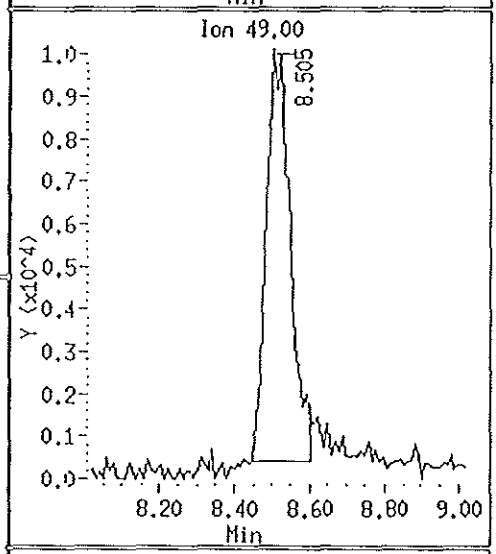


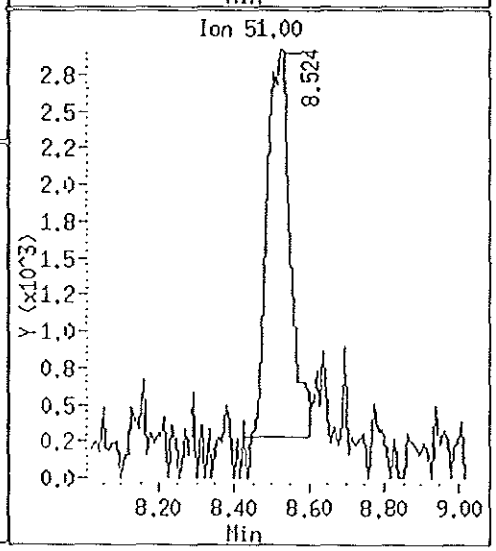






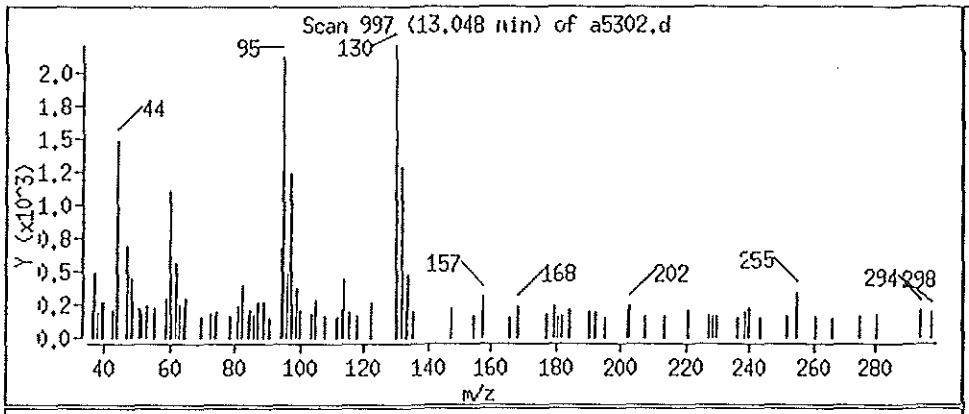


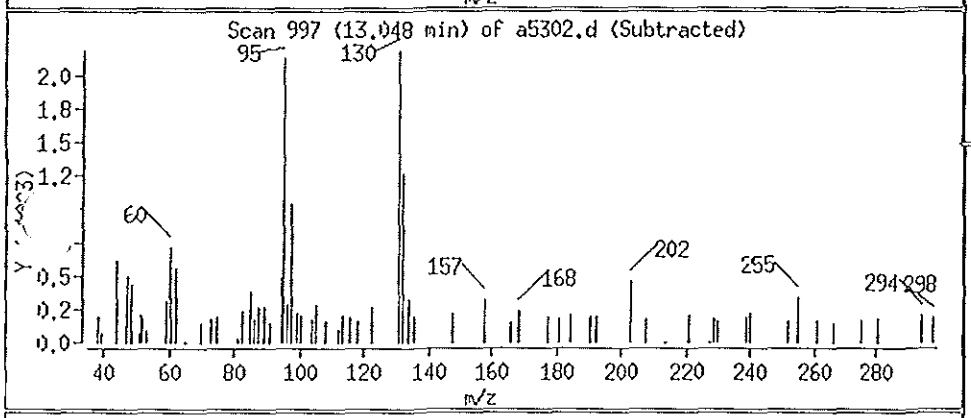


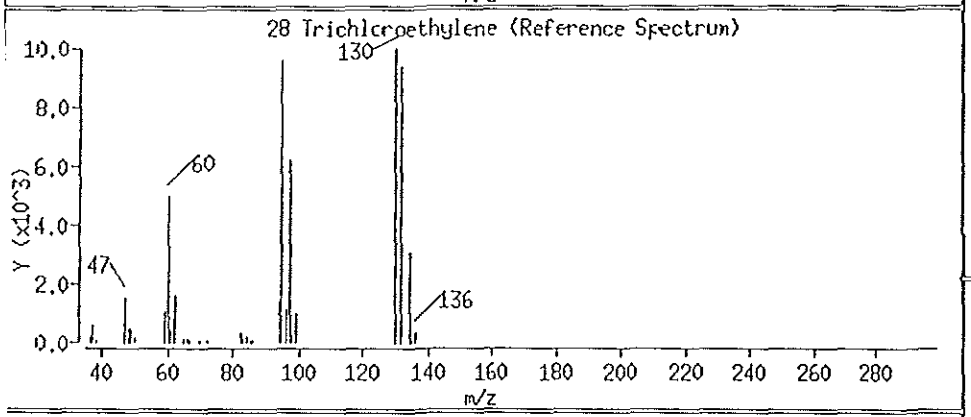


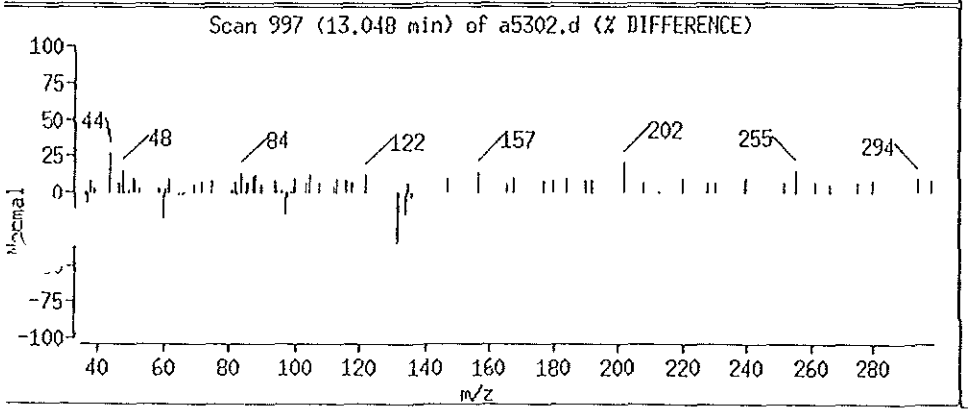
Data File: /chem/aux/msa.i/a111895.b/a5302.d
Date : 18-NOV-95 21:49
Client ID: 17418n clj78tw001 Instrument: msa.i
Sample Info: 17418n clj78tw001 20x
Purge Volume: 1.0 Operator: jk
Column phase: J&W DB_624 Column diameter: 0.53

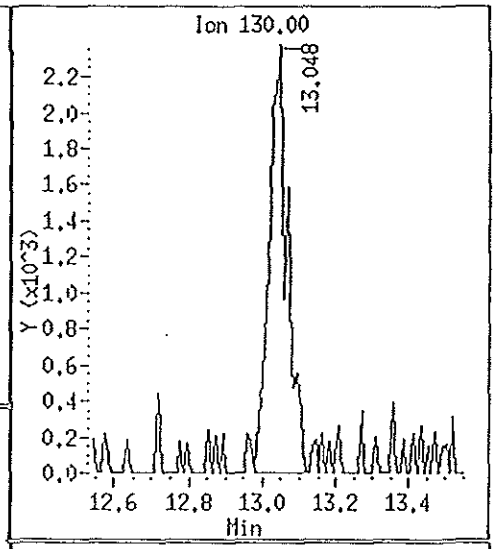
28 Trichloroethylene

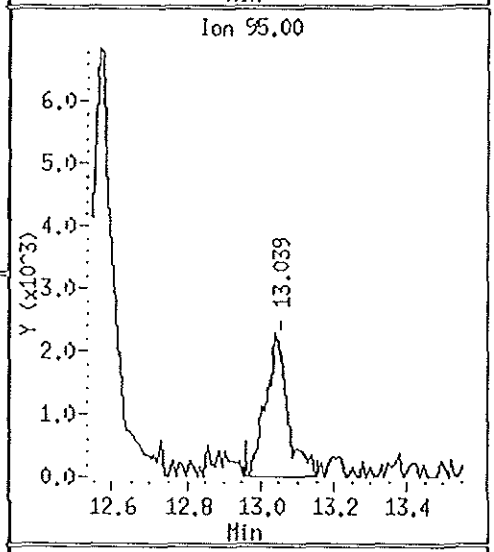


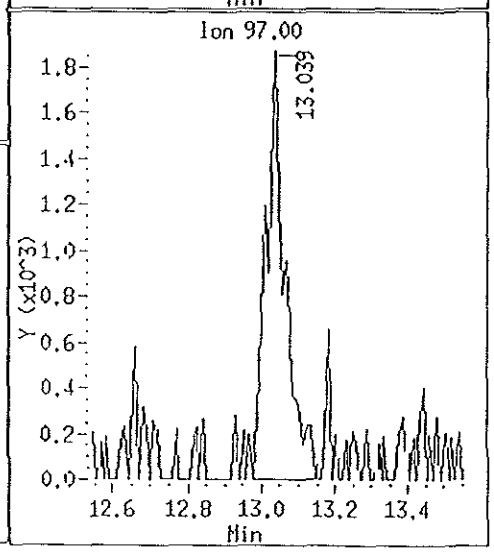












Data File: /chem/aux/msa.i/a111895.b/a5302.d

Date : 18-NOV-95 21:49

lient ID: 17418n clj78tw001

Instrument: msa.i

Sample Info: 17418n clj78tw001 20x

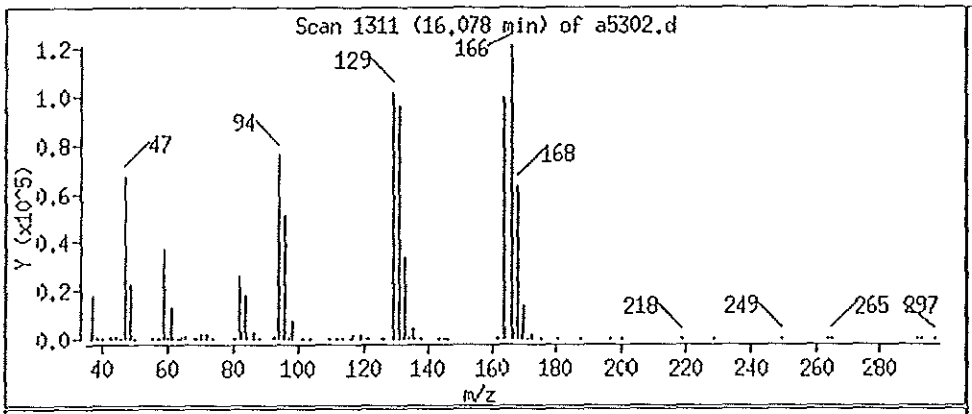
Purge Volume: 1.0

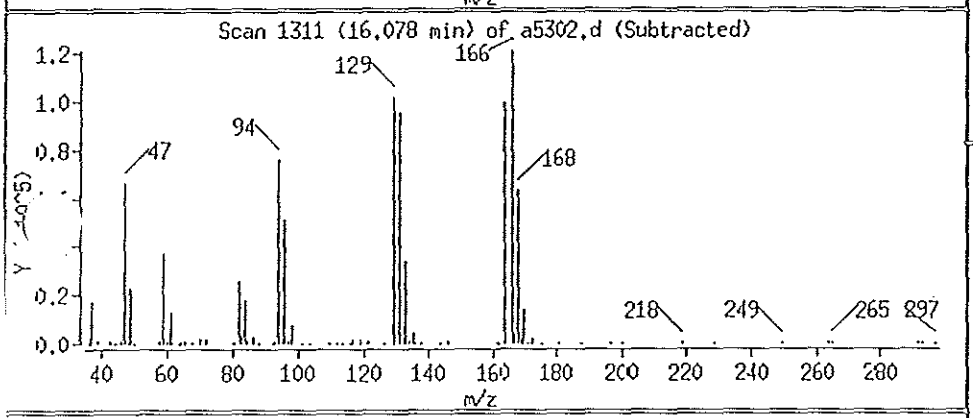
Operator: jk

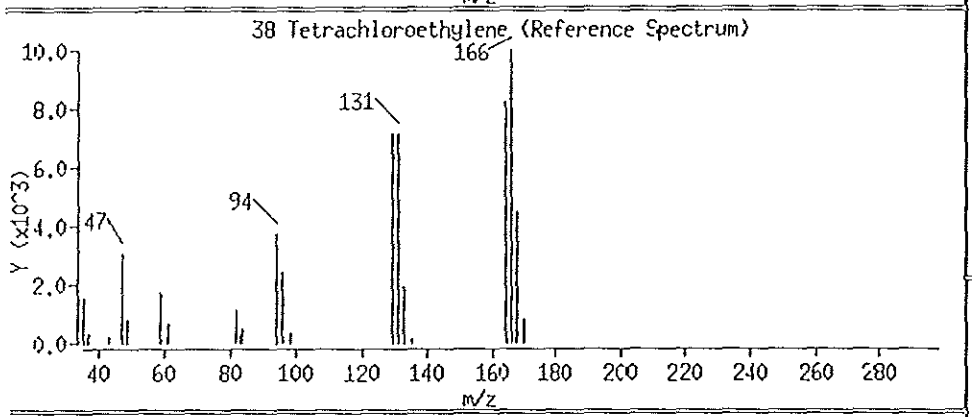
Column phase: J&W DB_624

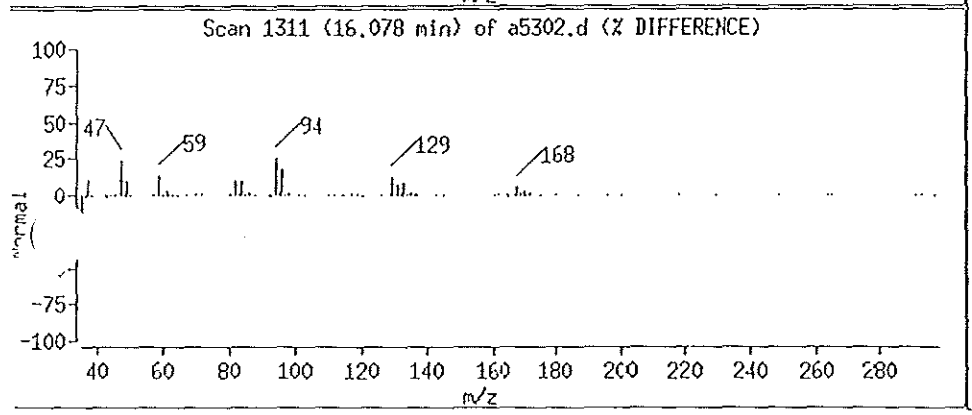
Column diameter: 0.53

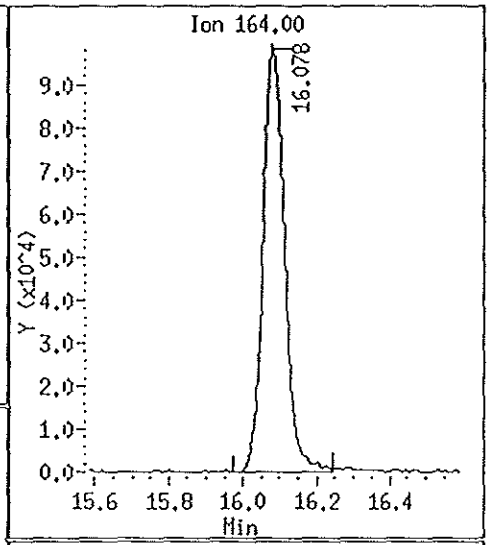
38 Tetrachloroethylene

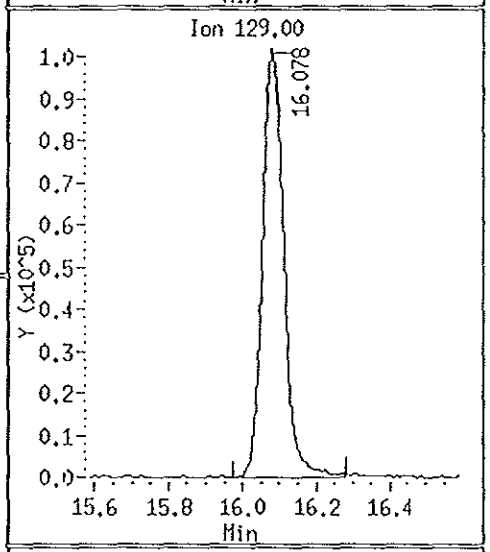


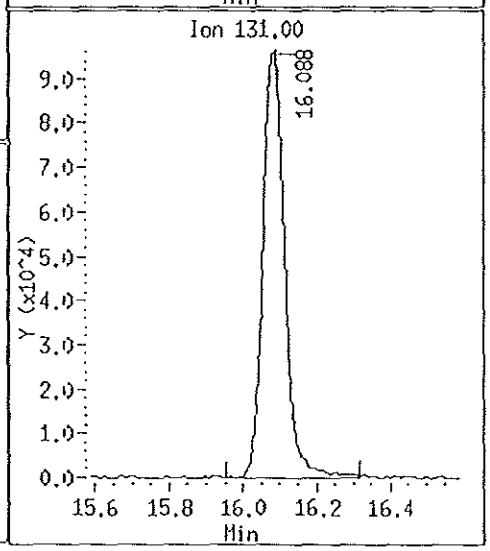












Data File: /chem/aux/msa.i/a111895.b/a5302.d

Date : 18-NOV-95 21:49

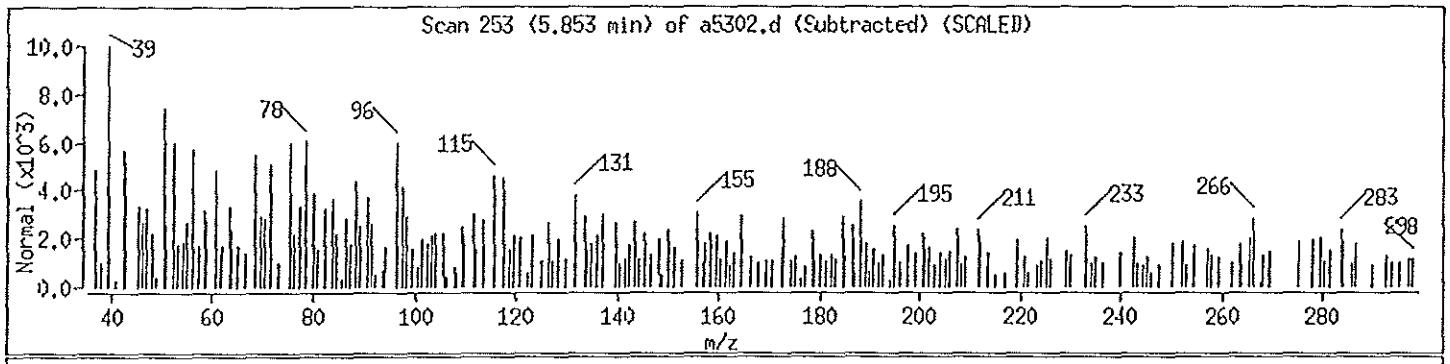
lient ID: 17418n clj78tw001 Instrument: msa.i

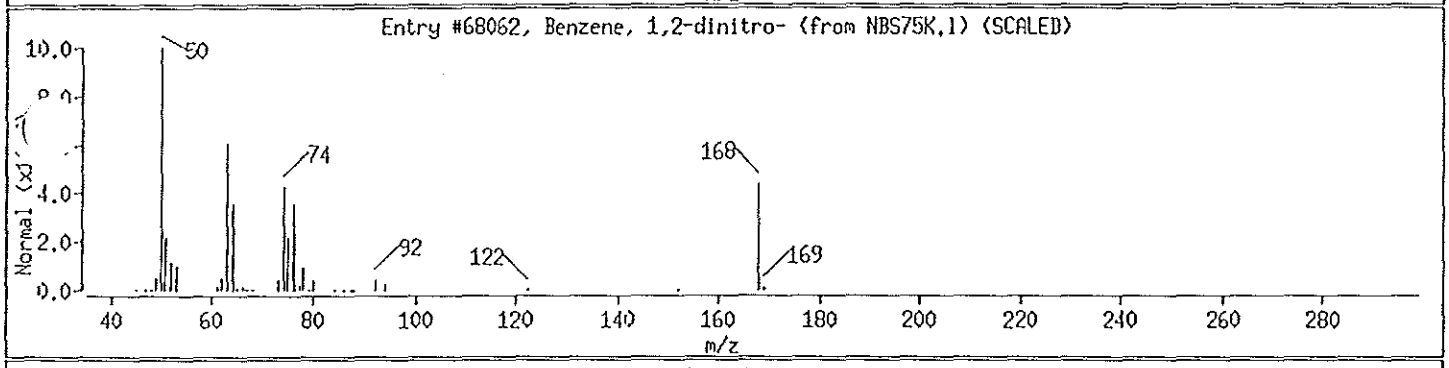
Sample Info: 17418n clj78tw001 20x

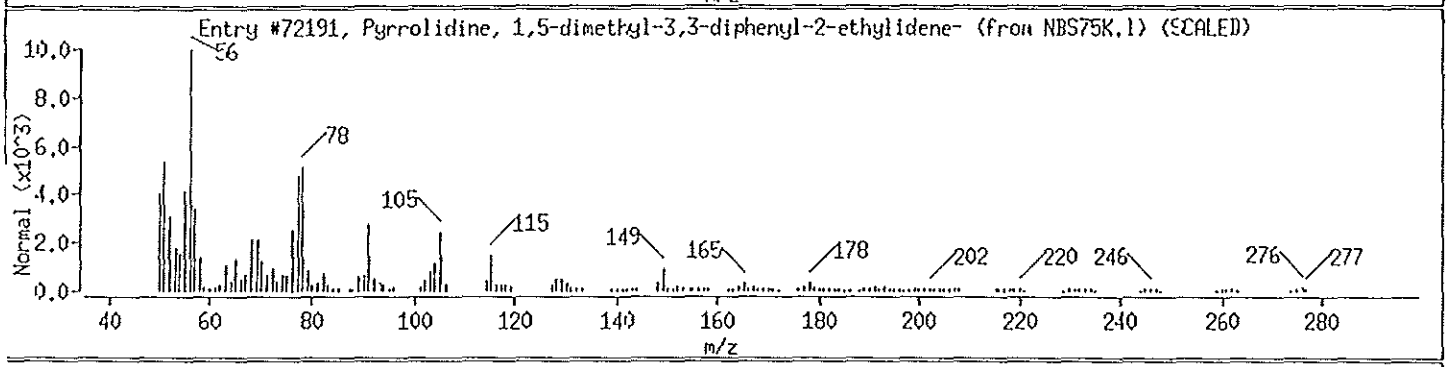
Purge Volume: 1.0 Operator: jk

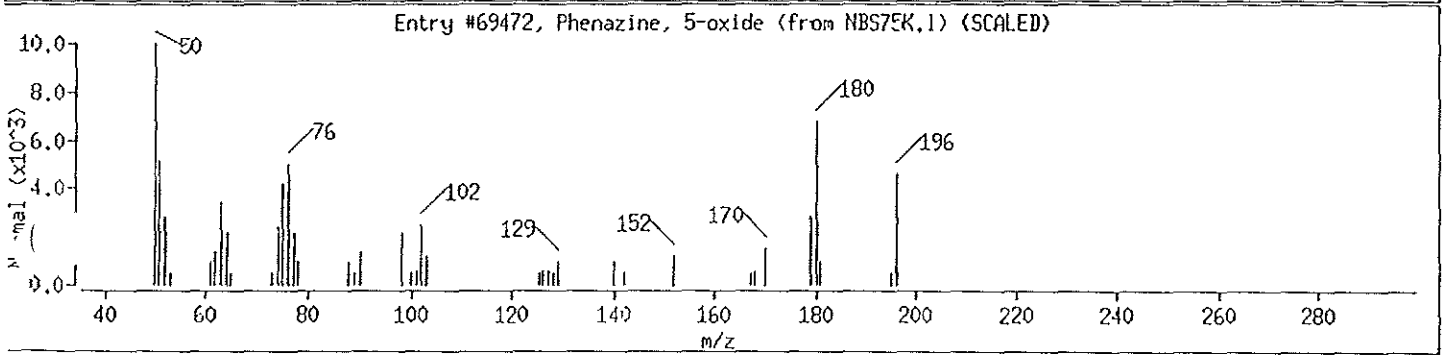
Column phase: J&W DB_624 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1,2-dinitro-	528-29-0	NBS75K.l	68062	43	C6H4N2O4	168
Pyrrolidine, 1,5-dimethyl-3,3-diphenyl-2	30223-73-5	NBS75K.l	72191	38	C20H23N	277
Phenazine, 5-oxide	304-81-4	NBS75K.l	69472	30	C12H8N2O	196









1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0139 CLJ78TW002

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Matrix: (soil/water) WATER Lab Sample ID: JP0324V

Sample wt/vol: .50 (g/mL) ML Lab File ID: A5303

Level: (low/med) LOW Date Received: 11/14/95

% Moisture: not dec. N/A Date Analyzed: 11/18/95

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	40	BJ
67-64-1	Acetone	100	U
75-15-0	Carbon Disulfide	50	U
75-35-4	1,1-Dichloroethene	50	U
75-34-3	1,1-Dichloroethane	50	U
540-59-0	1,2-Dichloroethene (total)	150	
67-66-3	Chloroform	50	U
107-06-2	1,2-Dichloroethane	50	U
78-93-3	2-Butanone	50	U
71-55-6	1,1,1-Trichloroethane	50	U
56-23-5	Carbon Tetrachloride	50	U
75-27-4	Bromodichloromethane	50	U
78-87-5	1,2-Dichloropropane	50	U
10061-01-5	cis-1,3-Dichloropropene	50	U
79-01-6	Trichloroethene	49	J
124-48-1	Dibromochloromethane	50	U
79-00-5	1,1,2-Trichloroethane	50	U
71-43-2	Benzene	50	U
10061-02-6	trans-1,3-Dichloropropene	50	U
75-25-2	Bromoform	50	U
108-10-1	Methyl-iso-butyl ketone	100	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethylene	420	B
79-34-5	1,1,2,2-Tetrachloroethane	50	U
108-88-3	Toluene	50	U
108-90-7	Chlorobenzene	50	U
100-41-4	Ethylbenzene	50	U
100-42-5	Styrene	50	U
1330-20-7	Xylene (total)	32	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0140

CLJ78TW002

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78TW001

Matrix: (soil/water) WATER Lab Sample ID: JP0324V

Sample wt/vol: .50 (g/mL) ML Lab File ID: A5303

Level: (low/med) LOW Date Received: 11/14/95

% Moisture: not dec. N/A Date Analyzed: 11/18/95

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 8

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

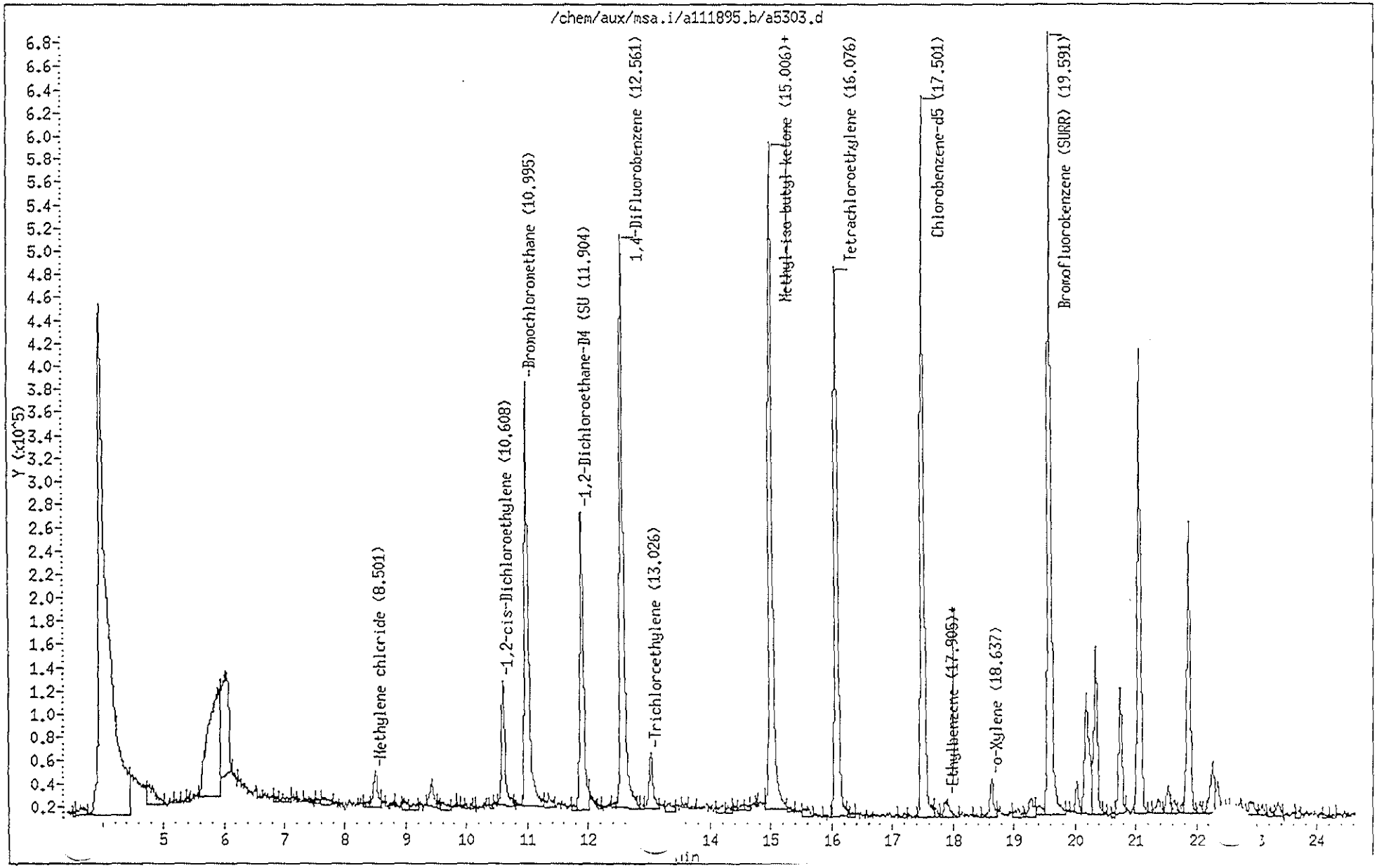
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	5.93	370	J
2.	unknown	6.03	230	J
3. 622-96-8	Benzene, 1-ethyl-4-methyl-	20.19	120	JN
4. 95-36-3	1,2,4-Trimethylbenzene isome	20.34	130	JN
. 526-73-8	1,2,3-Trimethylbenzene isome	20.74	90	JN
6. 95-36-3	1,2,4-Trimethylbenzene isome	21.06	310	JN
7. 526-73-8	1,2,3-Trimethylbenzene isome	21.87	200	JN
8. 496-11-7	Indane	22.27	51	JN

0141

Data File: /chem/aux/msa.i/a111895.b/a5303.d
Date : 18-NOV-95 22:23
Client ID: 17418n clj78tw002
Sample Info: 17418n clj78tw002 10x
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msa.i

Operator: jk
Column diameter: 0.53



OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240 & Screen

Data file : /chem/aux/msa.i/a111895.b/a5303.d
Lab Smp Id: Client Smp ID: 17418n clj78tw002
Inj Date : 18-NOV-95 22:23
Operator : jk Inst ID: msa.i
Smp Info : 17418n clj78tw002 10x
Misc Info : jp0324v,n1v4782,m2,5000,1,0.50,5.0,951118,
Comment :
Method : /chem/aux/msa.i/a111895.b/111895_8240ambia.m
Meth Date : 22-Nov-1995 17:34 glenn Quant Type: ISTD
Cal Date : 18-NOV-95 17:03 Cal File: a5294.d
Als bottle: 3
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

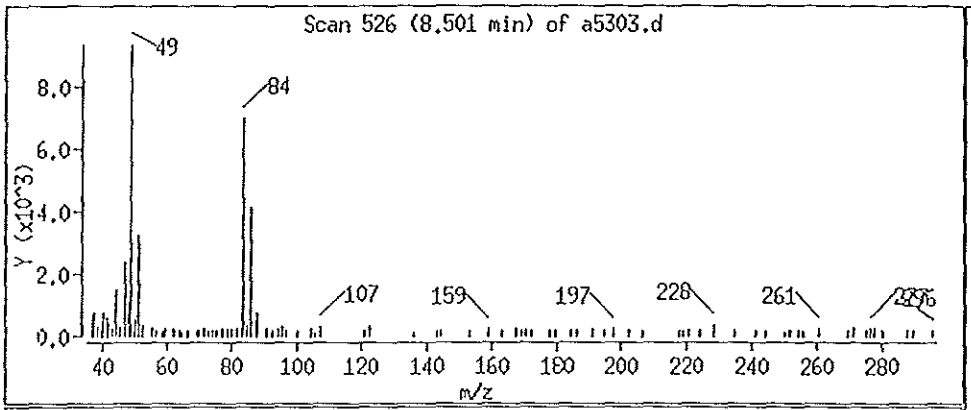
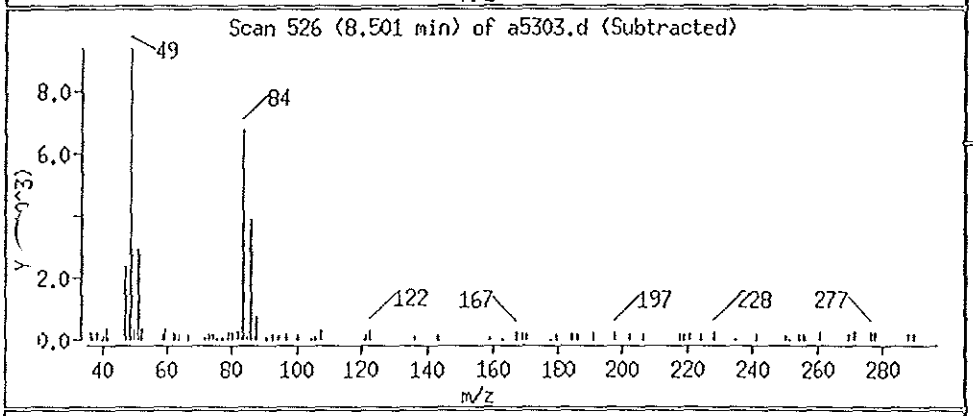
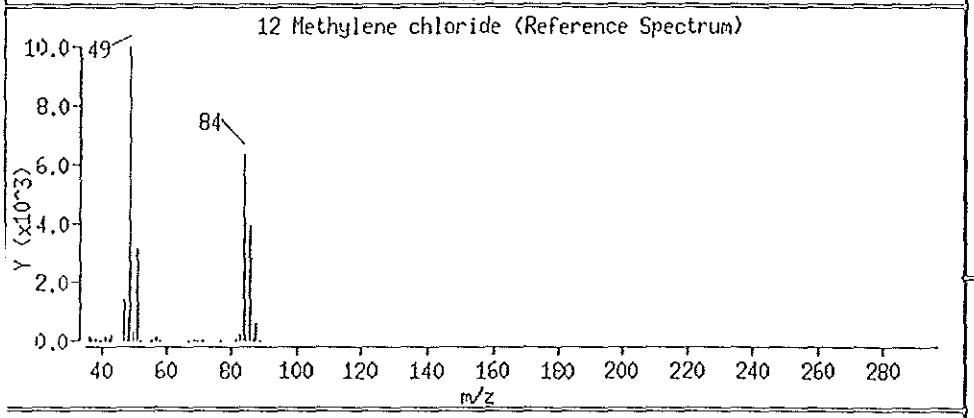
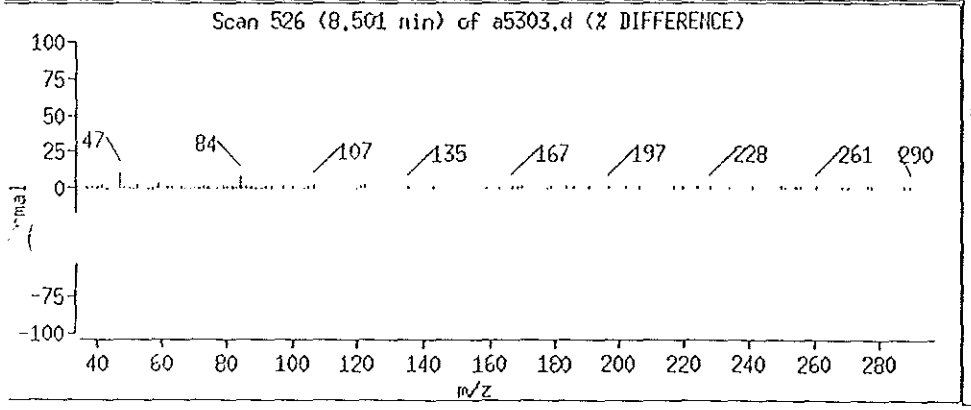
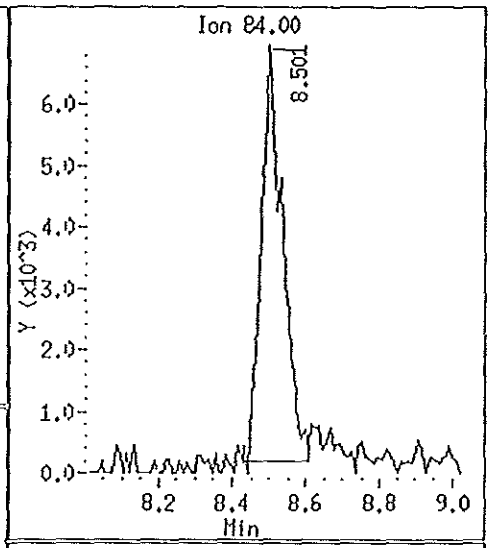
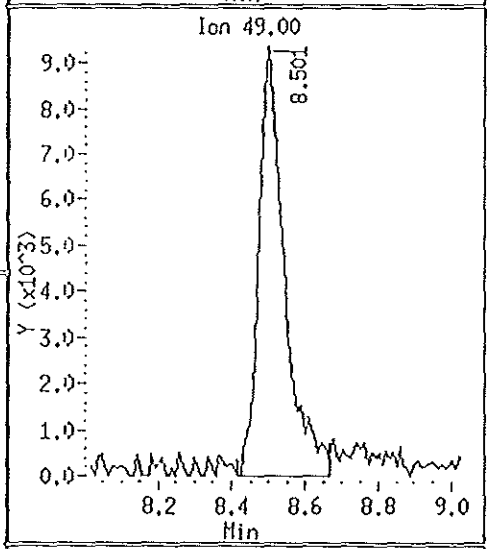
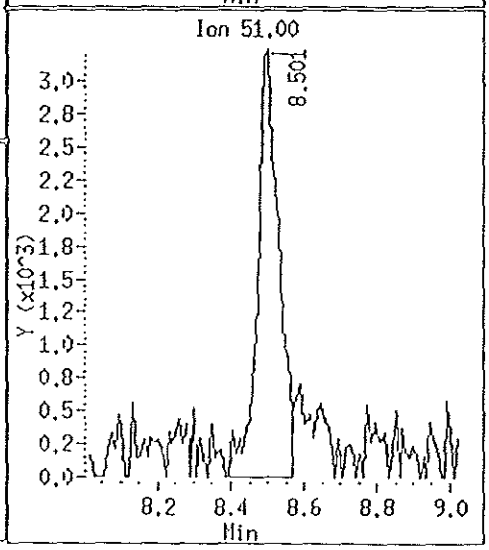
MK 11/24/95

#590

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
12 Methylene chloride	84.00	8.501	8.520	(0.773)	26861	3.98	3.98
17 1,2-cis-Dichloroethylene	96.00	10.598	10.620	(0.964)	89878	15.4	15.4
20 Bromochloromethane	128.00	10.995	11.007	(1.000)	190316	50.0	
24 1,2-Dichloroethane-D4 (SURR)	65.00	11.904	11.916	(1.083)	389761	47.2	47.2
27 1,4-Difluorobenzene	114.00	12.561	12.573	(1.000)	723858	50.0	
28 Trichloroethylene	130.00	13.026	13.047	(1.037)	28494	4.87	4.87
33 Methyl-iso-butyl ketone	43.00	15.016	14.737	(0.858)	6576	1.08	~~1.08(Q)~~ NS
34 Toluene-D8 (SURR)	98.00	15.006	15.017	(0.857)	737469	54.1	54.1
38 Tetrachloroethylene	164.00	16.076	16.089	(0.919)	205019	41.6	41.6
42 Chlorobenzene-d5	117.00	17.501	17.506	(1.000)	572252	50.0	
44 Ethylbenzene	106.00	17.905	17.708	(1.023)	5282	1.02	~~1.02~~ RT
45 m+p-Xylenes	106.00	17.905	17.911	(1.023)	5529	0.897	0.897(a)
46 o-Xylene	106.00	18.637	18.633	(1.065)	14163	2.34	2.34
49 Bromofluorobenzene (SURR)	95.00	19.591	19.587	(1.119)	435820	53.7	53.7

QC Flag Legend

- Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- Qualifier signal failed the ratio test.

Data File: /chem/aux/msa.i/a111895.b/a5303.d
Date : 18-NOV-95 22:23
Client ID: 17418n clj78tw002
Instrument: msa.i
Sample Info: 17418n clj78tw002 10x
Purge Volume: 1.0
Operator: jk
Column phase: J&W DB_624
Column diameter: 0.53

12 Methylene chloride