ENVISION ENVIRONMENTAL, INC.

PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

of

REXAM DSI INC.
BRIDGE STREET
BROWNVILLE, NY 13615

for

REXAM INC.
CHARLOTTE, NC 28209

Prepared by:

Mark P. Roman, CHMM
Stephen Laney, CPG

ENVISION ENVIRONMENTAL, INC.

December 2000

ENVISION Project ID 1500.REX

VOLUME II of II

21 Priscilla Lane, Howell, NJ 07731 • Phone: 732-886-1664 Fax: 732-886-2925

Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13269.d

Date : 31-OCT-2000 09:27

Client ID: EB-4_1.5-2

Instrument: BNAMS7.i

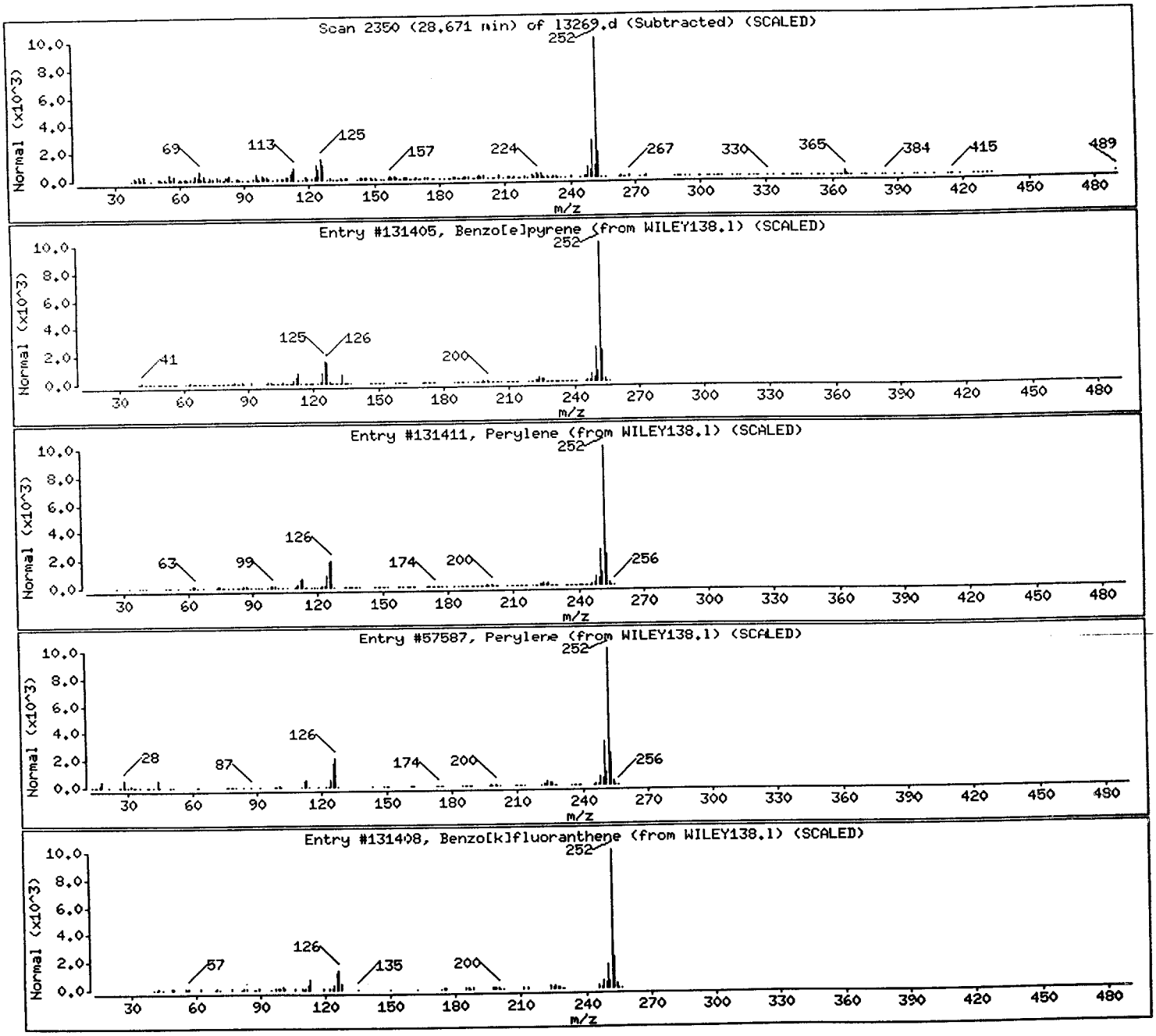
Sample Info: 237815;30;2;1;7.9

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
C20H12 PAH						
Benzo[e]pyrene	192-97-2	WILEY138.1	131405	94	C20H12	252
Perylene	198-55-0	WILEY138.1	131411	93	C20H12	252
Perylene	198-55-0	WILEY138.1	57587	92	C20H12	252
Benzo[k]fluoranthene	207-08-9	WILEY138.1	131408	89	C20H12	252



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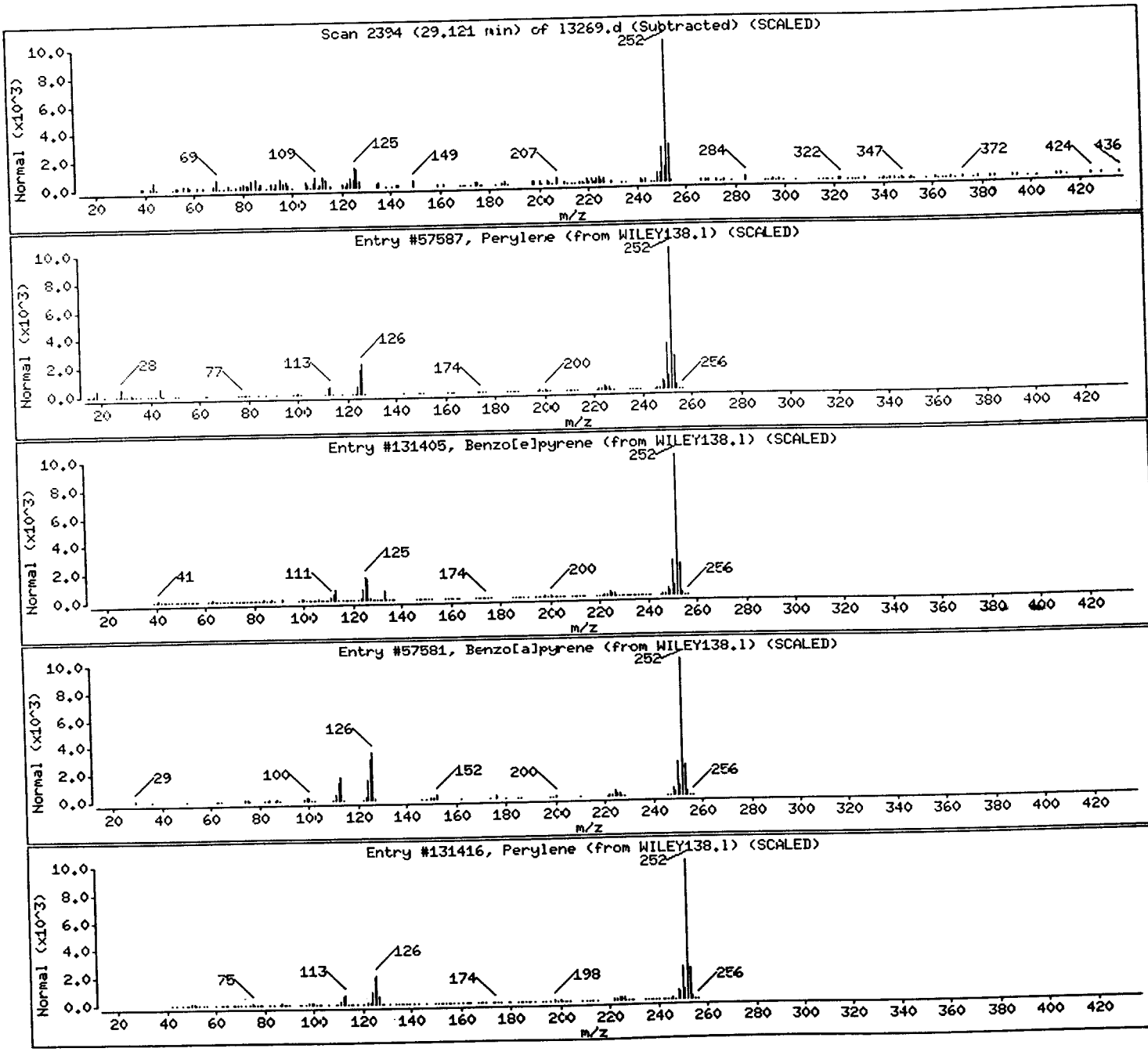
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Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
C20H12 PAH						
Perylene	198-55-0	WILEY138.1	57587	89	C20H12	252
Benzo[e]pyrene	192-97-2	WILEY138.1	131405	87	C20H12	252
Benzo[a]pyrene	50-32-8	WILEY138.1	57581	87	C20H12	252
Perylene	198-55-0	WILEY138.1	131416	81	C20H12	252



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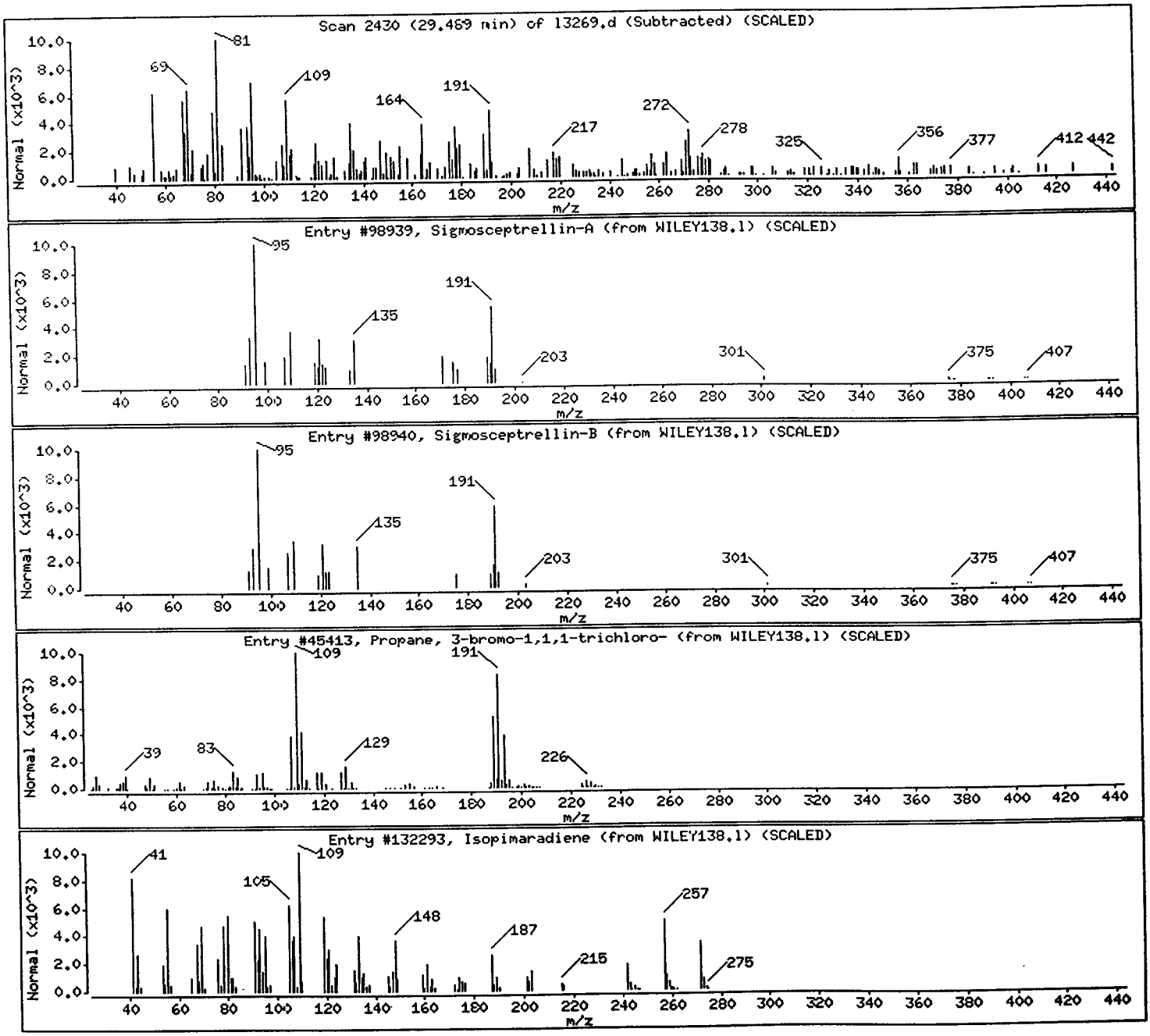
Sample Info: 237815;30;2;1;7.9

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Sigmosceptrellin-A	73436-35-8	WILEY138.l	98939	32	C25H4204	406
Sigmosceptrellin-B	81739-17-5	WILEY138.l	98940	32	C25H4204	406
Propane, 3-bromo-1,1,1-trichloro-	13749-37-6	WILEY138.l	45413	25	C3H4BrCl3	224
Isopimaradiene	1686-66-4	WILEY138.l	132293	25	C20H32	272



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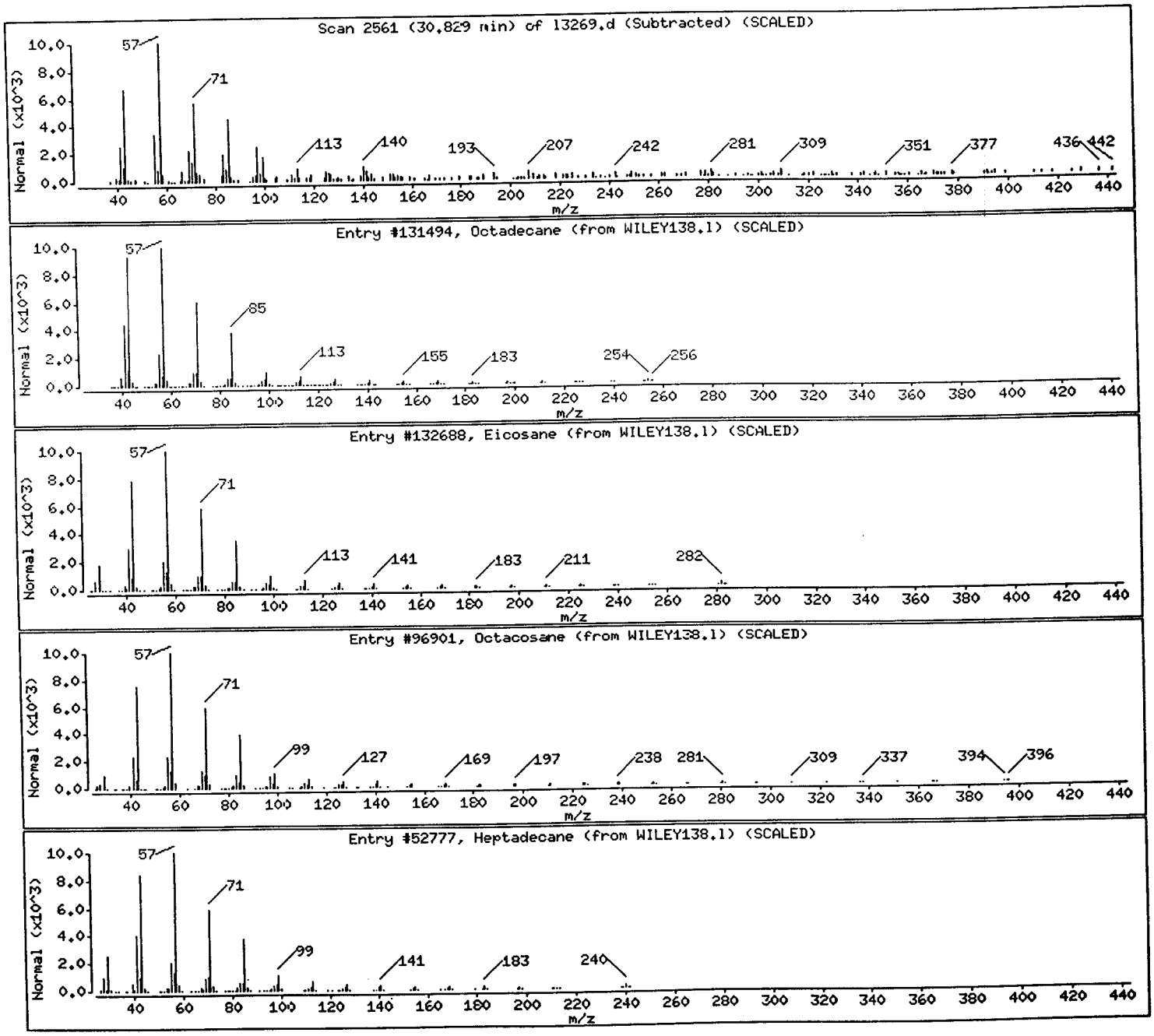
Sample Info: 237815;30;2;1;7.9

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Octadecane	593-45-3	WILEY138.l	131494	86	C18H38	254
Eicosane	112-95-8	WILEY138.l	132688	86	C20H42	282
Octacosane	630-02-4	WILEY138.l	96901	76	C28H58	394
Heptadecane	629-78-7	WILEY138.l	52777	70	C17H36	240



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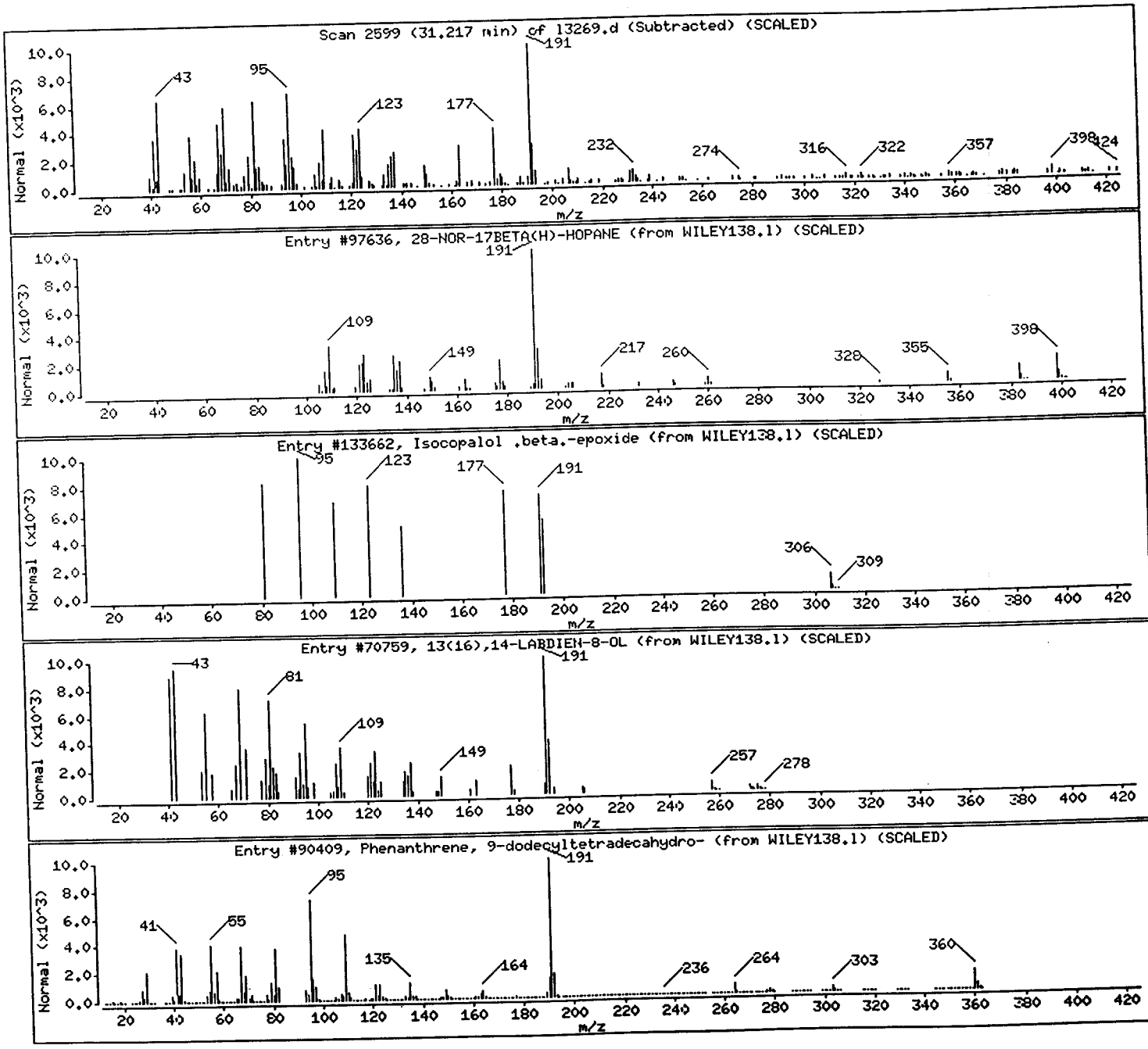
Sample Info: 237815;30;2;1;7.9

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
28-NOR-17BETA(H)-HOPANE	36728-72-0	WILEY138.1	97636	90	C29H50	398
Isocopalol .beta.-epoxide	72264-56-3	WILEY138.1	133662	50	C20H34O2	306
13(16),14-LABDIEN-8-OL	0-00-0	WILEY138.1	70759	47	C20H34O	290
Phenanthrene, 9-dodecyltetradecahydro-	55334-01-5	WILEY138.1	90409	43	C26H48	360



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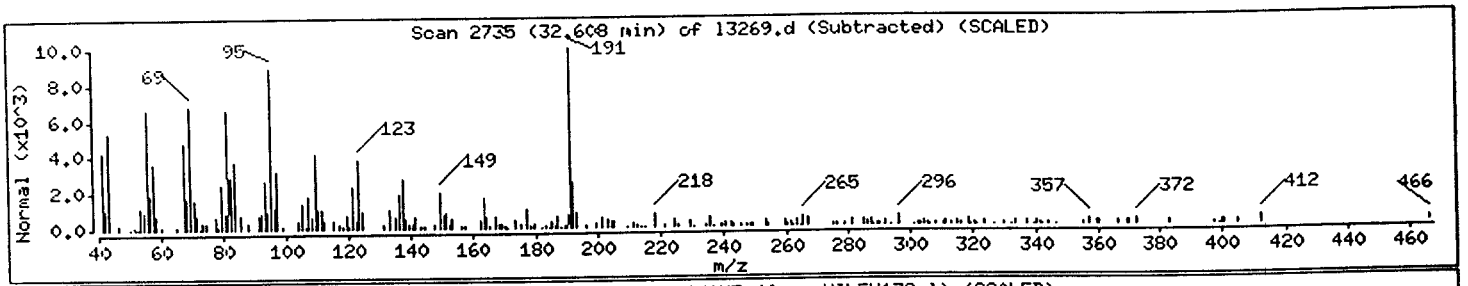
Sample Info: 237815;30;2;1;7.9

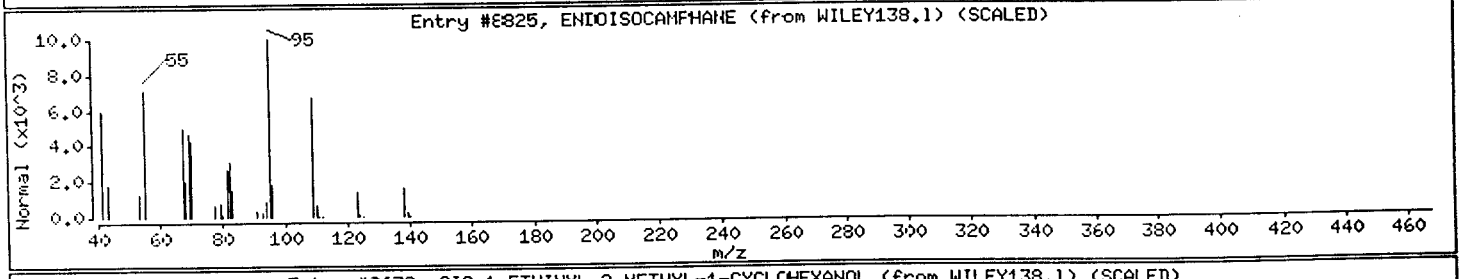
Operator: BNAMS 4

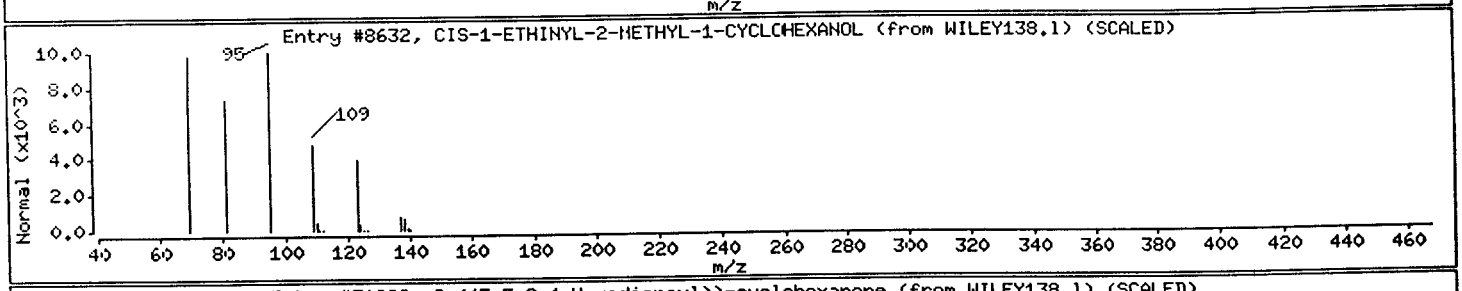
Column phase: DB-5

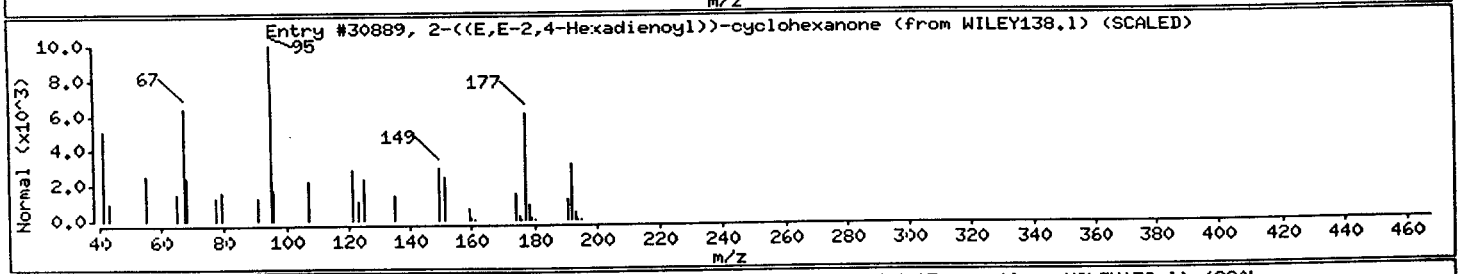
Column diameter: 0.25

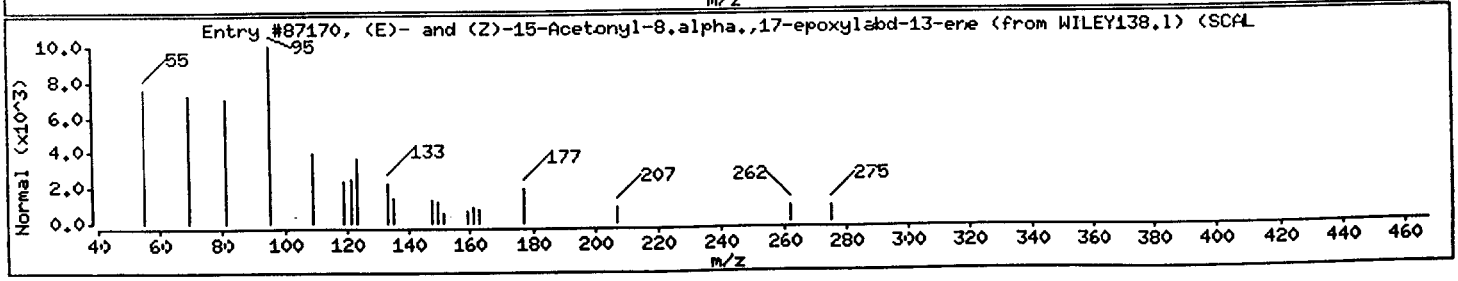
Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
ENDOISOCAMPHANE	20536-40-7	WILEY138.1	8825	46	C10H18	138
CIS-1-ETHINYL-2-METHYL-1-CYCLOHEXANOL	36144-41-9	WILEY138.1	8632	43	C9H140	138
2-((E,E-2,4-Hexadienoyl))-cyclohexanone	88924-70-3	WILEY138.1	30889	38	C12H16O2	192
(E)- and (Z)-15-Acetonyl-8.alpha.,17-epo	88034-07-5	WILEY138.1	87170	35	C23H38O2	346











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Instrument: BNAMS7.i

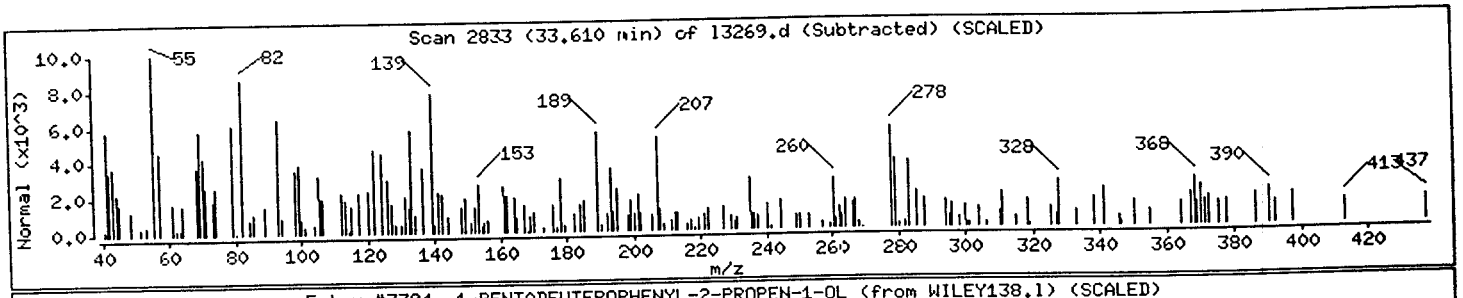
Sample Info: 237815;30;2;1;7.9

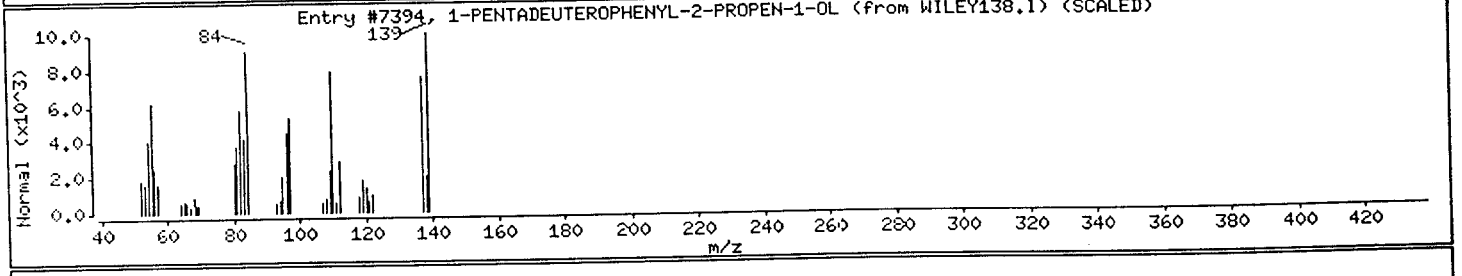
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-PENTADEUTEROPHENYL-2-PROPEN-1-OL	79328-67-9	WILEY138.l	7394	35	C9H5D5O	134





Client ID: **EB-5_1.2-1.7**
Site: Rexam DSI

Lab Sample No: **237816**
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3254.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 10

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
N-Nitrosodimethylamine	ND	370
bis(2-Chloroethyl)ether	ND	37
1,3-Dichlorobenzene	ND	370
1,4-Dichlorobenzene	ND	370
1,2-Dichlorobenzene	ND	370
bis(2-chloroisopropyl)ether	ND	370
N-Nitroso-di-n-propylamine	ND	37
Hexachloroethane	ND	37
Nitrobenzene	ND	37
Isophorone	ND	370
bis(2-Chloroethoxy)methane	ND	370
1,2,4-Trichlorobenzene	ND	37
Naphthalene	15 J	370
Hexachlorobutadiene	ND	74
Hexachlorocyclopentadiene	ND	370
2-Chloronaphthalene	ND	370
Dimethylphthalate	ND	370
Acenaphthylene	39 J	370
2,6-Dinitrotoluene	ND	74
Acenaphthene	ND	370
2,4-Dinitrotoluene	ND	74
Diethylphthalate	ND	370
4-Chlorophenyl-phenylether	ND	370
Fluorene	ND	370
N-Nitrosodiphenylamine	ND	370
4-Bromophenyl-phenylether	ND	370
Hexachlorobenzene	ND	37
Phenanthrene	78 J	370
Anthracene	26 J	370
Di-n-butylphthalate	ND	370
Fluoranthene	290 J	370
Pyrene	350 J	370
Benzidine	ND	1500
Butylbenzylphthalate	ND	370

Client ID: **EB-5_1.2-1.7**
Site: Rexam DSI

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Lab Job No: F104

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Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3254.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 10

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
3,3'-Dichlorobenzidine	ND	740
Benzo(a)anthracene	240	37
Chrysene	180 J	370
bis(2-Ethylhexyl)phthalate	ND	370
Di-n-octylphthalate	ND	370
Benzo(b)fluoranthene	220	37
Benzo(k)fluoranthene	110	37
Benzo(a)pyrene	180	37
Indeno(1,2,3-cd)pyrene	74	37
Dibenz(a,h)anthracene	19 J	37
Benzo(g,h,i)perylene	88 J	370

Client ID: **EB-5_1.2-1.7**
Site: Rexam DSI

Lab Sample No: **237816**
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3254.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 10.3

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION 0.0

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STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/l3254.d
Lab Smp Id: 237816 Client Smp ID: EB-5_1.2-1.7
Inj Date : 30-OCT-2000 19:26
Operator : BNAMS 4 Inst ID: BNAMS7.i
Smp Info : 237816;30;2;1;10.3
Misc Info : F104;PPBN+15;6924;114
Comment :
Method : /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/8270C1.m
Meth Date : 30-Oct-2000 15:17 acierno Quant Type: ISTD
Cal Date : 27-OCT-2000 12:29 Cal File: l3224.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPBNb.sub
Target Version: 3.50
Processing Host: hpd1

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	2.00000	Volume of final extract (ml)
Ws	30.00000	Weight of sample extracted (g)
M	10.30000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
* 79 1,4-Dichlorobenzene-d4	152	13.182	13.186	(1.000)	322274	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	14.133	14.147	(0.920)	729332	53.1220	3900
* 80 Naphthalene-d8	136	15.360	15.374	(1.000)	1327304	40.0000	
31 Naphthalene	128	15.390	15.405	(1.002)	6539	0.19788	15(a)
$ 77 2-Fluorobiphenyl (SUR)	172	17.149	17.164	(0.937)	1117933	53.3378	4000
39 Acenaphthylene	152	18.059	18.074	(0.987)	17582	0.53136	39(a)
* 82 Acenaphthene-d10	164	18.294	18.309	(1.000)	770940	40.0000	
* 83 Phenanthrene-d10	188	20.779	20.794	(1.000)	1441669	40.0000	
52 Phenanthrene	178	20.810	20.834	(1.001)	37159	1.05304	78(a)
53 Anthracene	178	20.891	20.926	(1.005)	12360	0.34711	26(a)
56 Fluoranthene	202	22.783	22.818	(1.096)	146805	3.90296	290(a)
57 Pyrene	202	23.172	23.196	(0.918)	175664	4.70867	350(a)
$ 78 Terphenyl-d14 (SUR)	244	23.407	23.411	(0.927)	1535967	53.6591	4000

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
61 Benzo(a)anthracene	228	25.227	25.252	(0.999)	121307	3.30526	240
* 81 Chrysene-d12	240	25.247	25.282	(1.000)	1409154	40.0000	
62 Chrysene	228	25.288	25.333	(1.002)	82512	2.42164	180(a)
65 Benzo(b)fluoranthene	252	27.793	27.839	(0.958)	99053	3.00241	220
66 Benzo(k)fluoranthene	252	27.844	27.931	(0.959)	57234	1.45514	110(M)
67 Benzo(a)pyrene	252	28.795	28.882	(0.992)	81054	2.48125	180
* 84 Perylene-d12	264	29.020	29.066	(1.000)	1267475	40.0000	
68 Indeno(1,2,3-cd)pyrene	276	33.448	33.595	(1.153)	31229	0.99232	74
69 Dibenz(a,h)anthracene	278	33.571	33.749	(1.157)	8075	0.25946	19(aM)
70 Benzo(g,h,i)perylene	276	34.838	35.047	(1.200)	38051	1.18876	88(aM)

QC Flag Legend

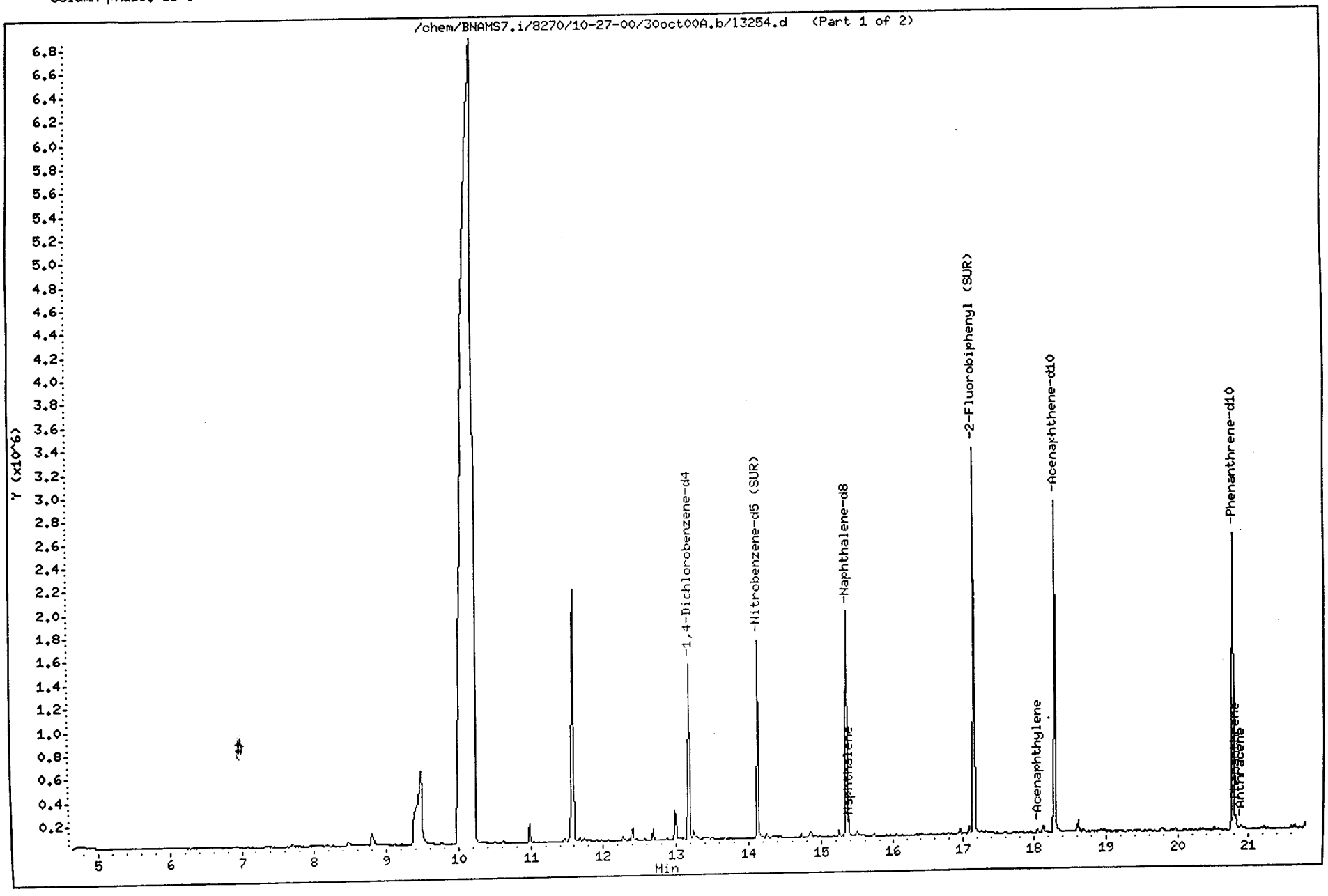
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

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Instrument: BNAMS7.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5

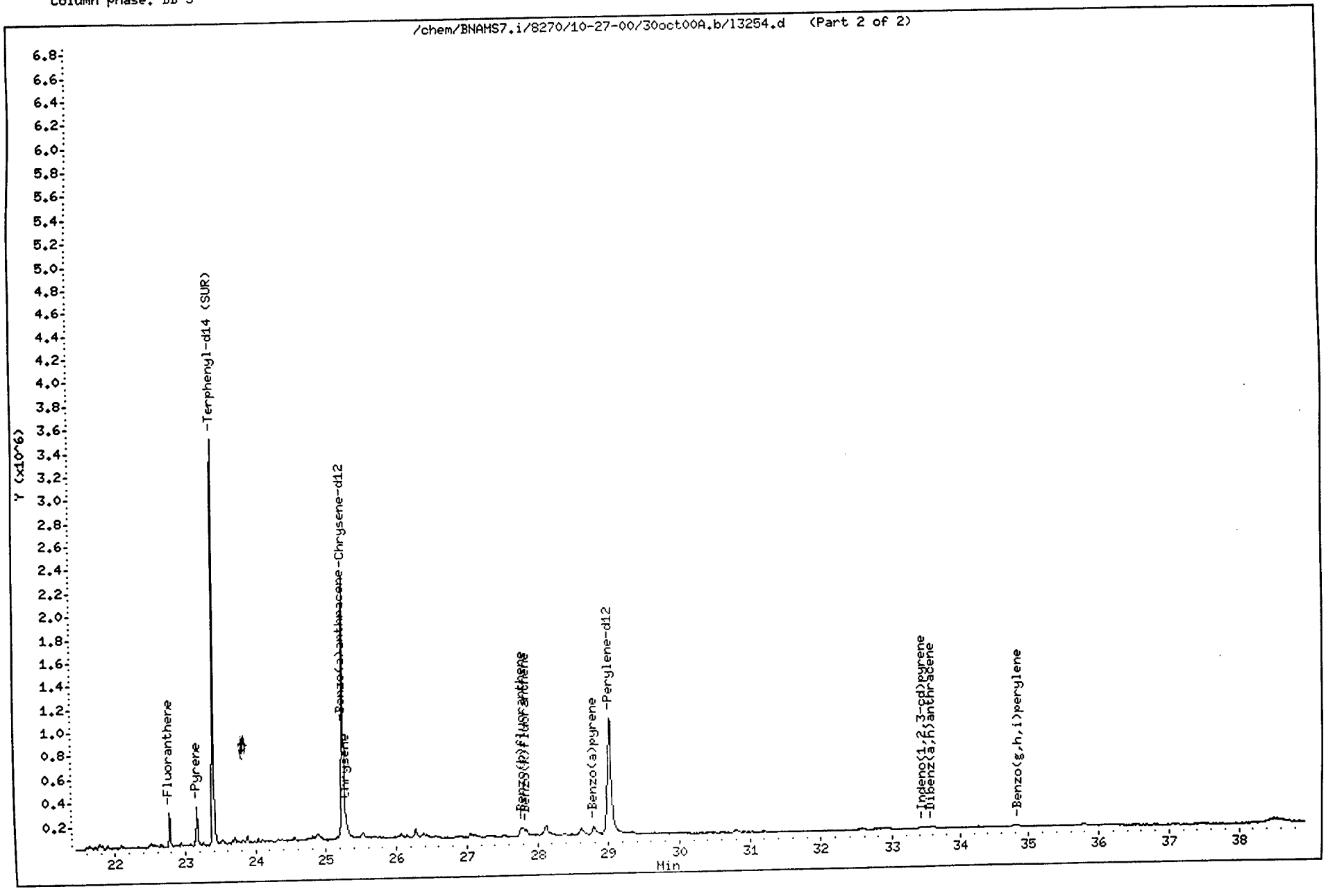


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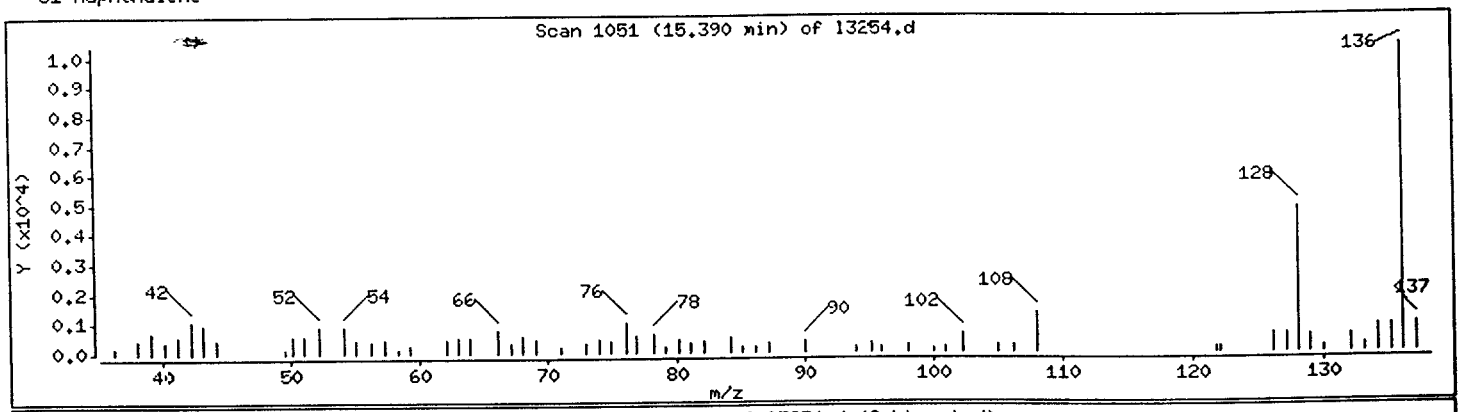
Operator: BNAMS 4

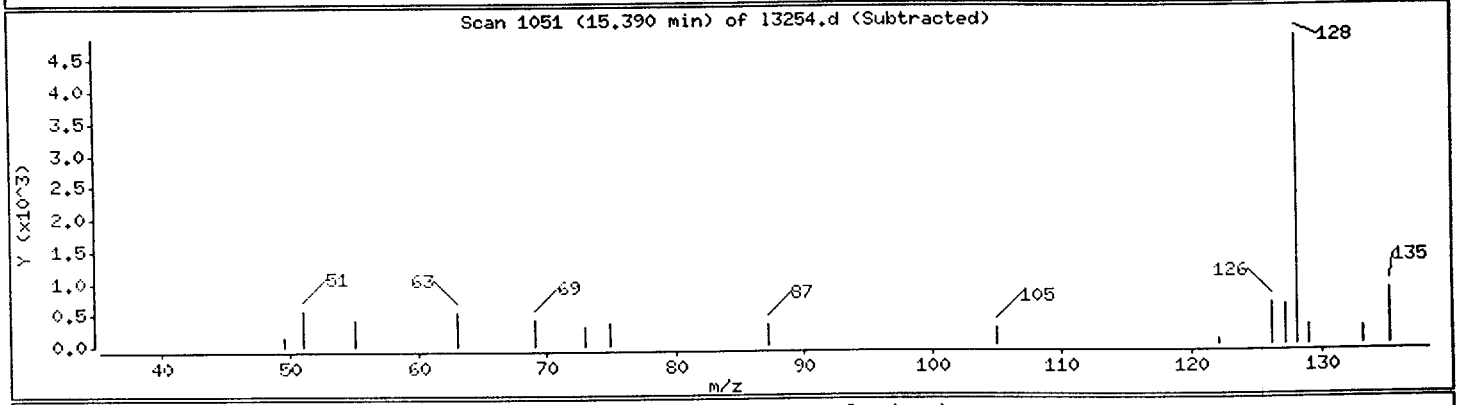
Column phase: DB-5

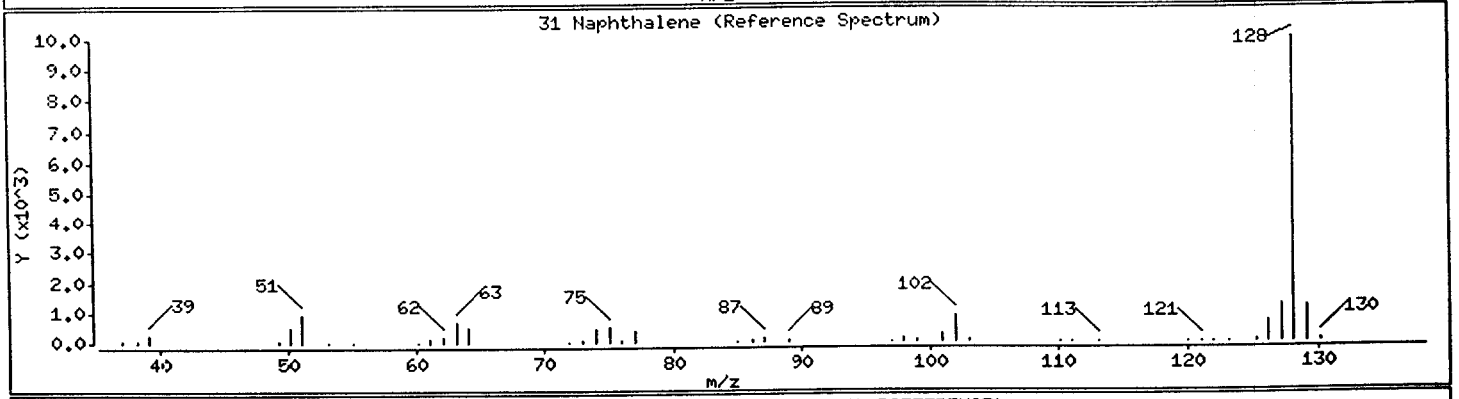
Column diameter: 0.25

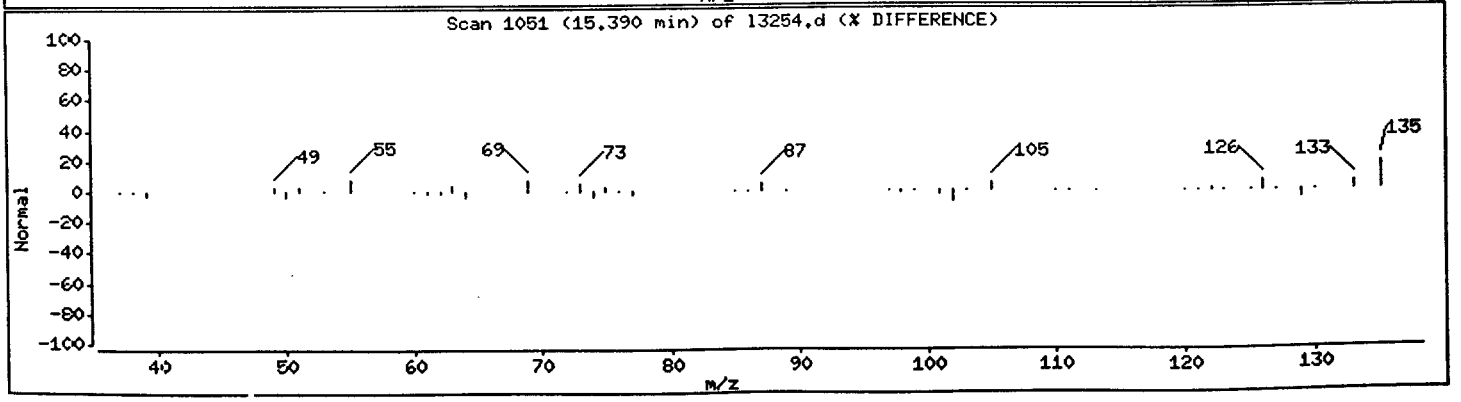
31 Naphthalene

Concentration: 15 ug/Kg









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Instrument: BNAMS7.i

Sample Info: 237816;30;2;1;10.3

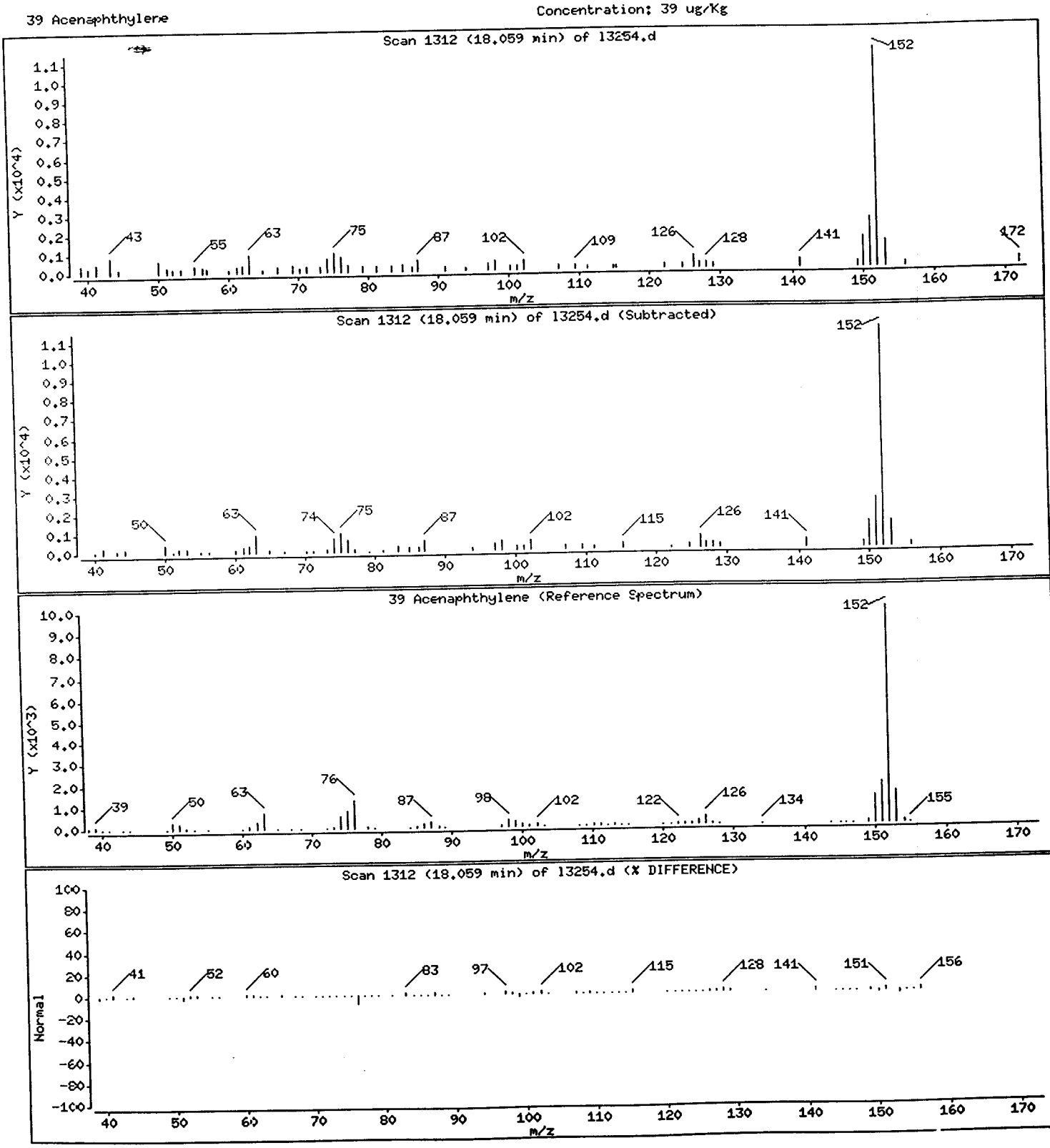
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

39 Acenaphthylene

Concentration: 39 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13254.d

Date : 30-OCT-2000 19:26

Client ID: EB-5_1.2-1.7

Instrument: BNAMS7.i

Sample Info: 237816;30;2;1;10.3

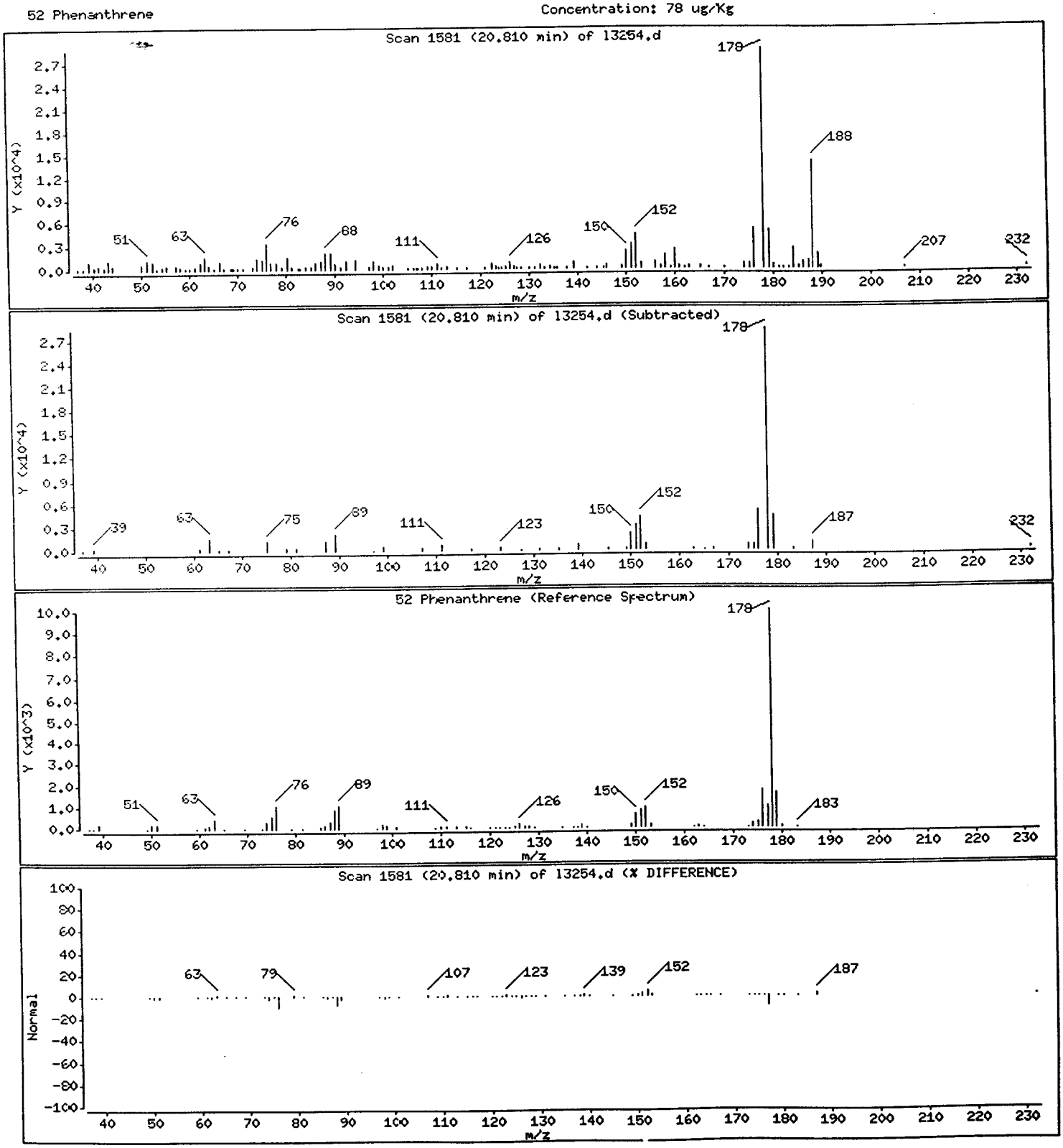
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

52 Phenanthrene

Concentration: 78 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13254.d

Date : 30-OCT-2000 19:26

Client ID: EB-5_1.2-1.7

Instrument: BNAMS7.i

Sample Info: 237816;30;2;1;10.3

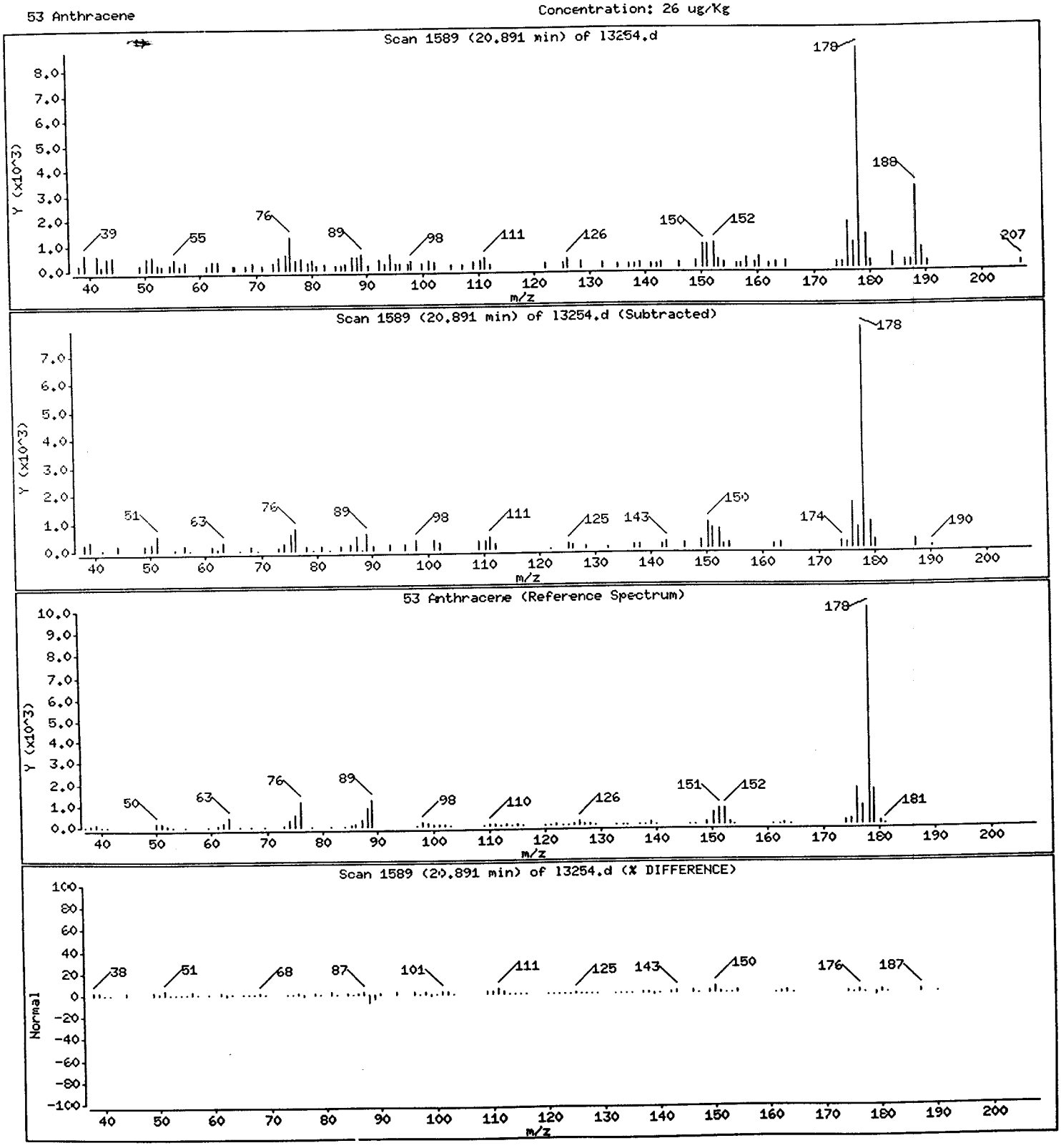
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

53 Anthracene

Concentration: 26 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13254.d

Date : 30-OCT-2000 19:26

Client ID: EB-5_1.2-1.7

Instrument: BNAMS7.i

Sample Info: 237816;30;2;1;10.3

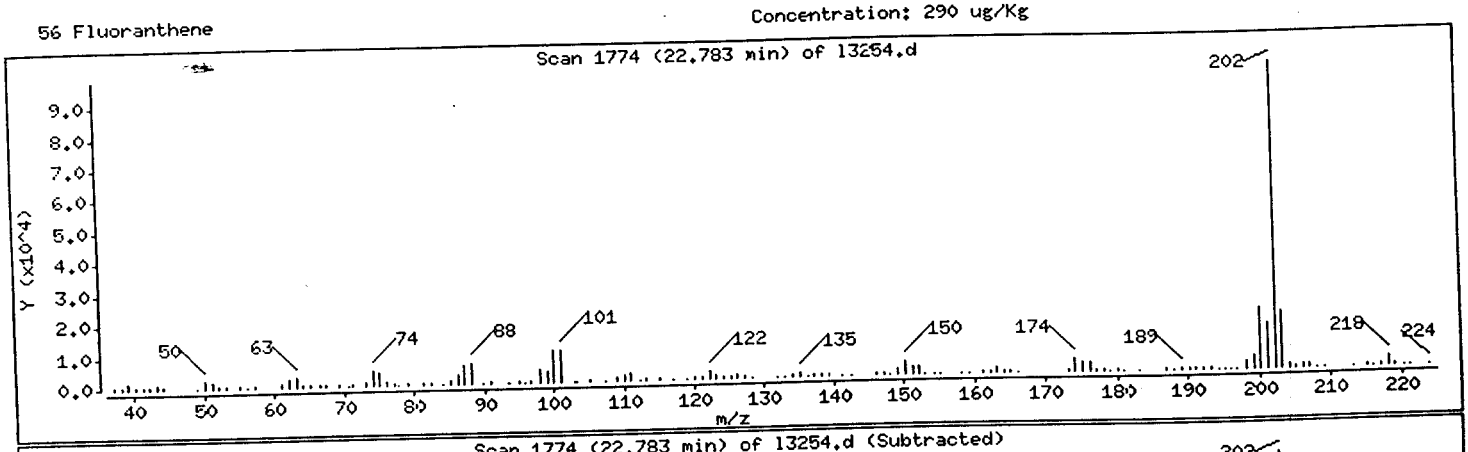
Operator: BNAMS 4

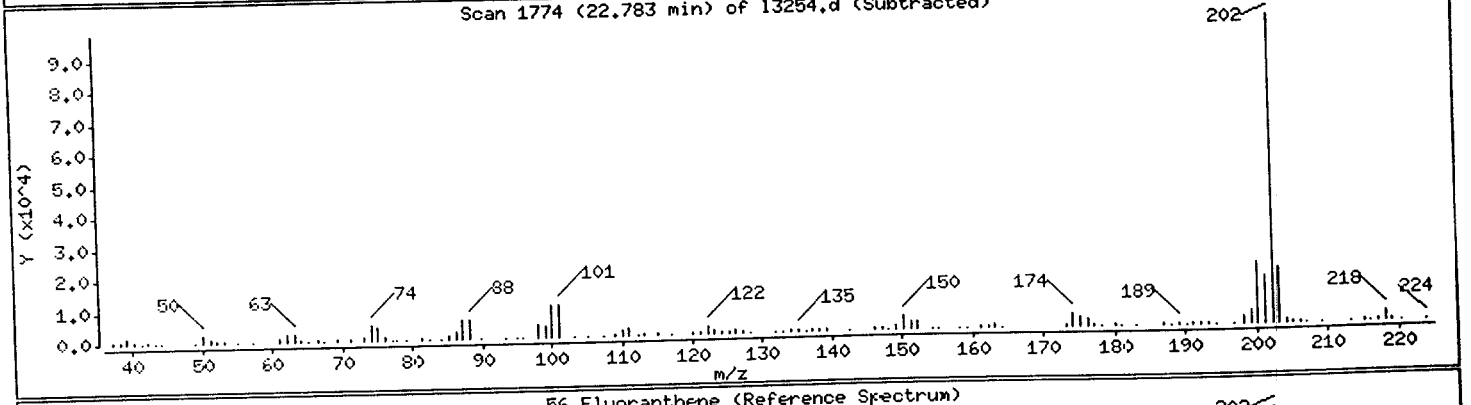
Column phase: DB-5

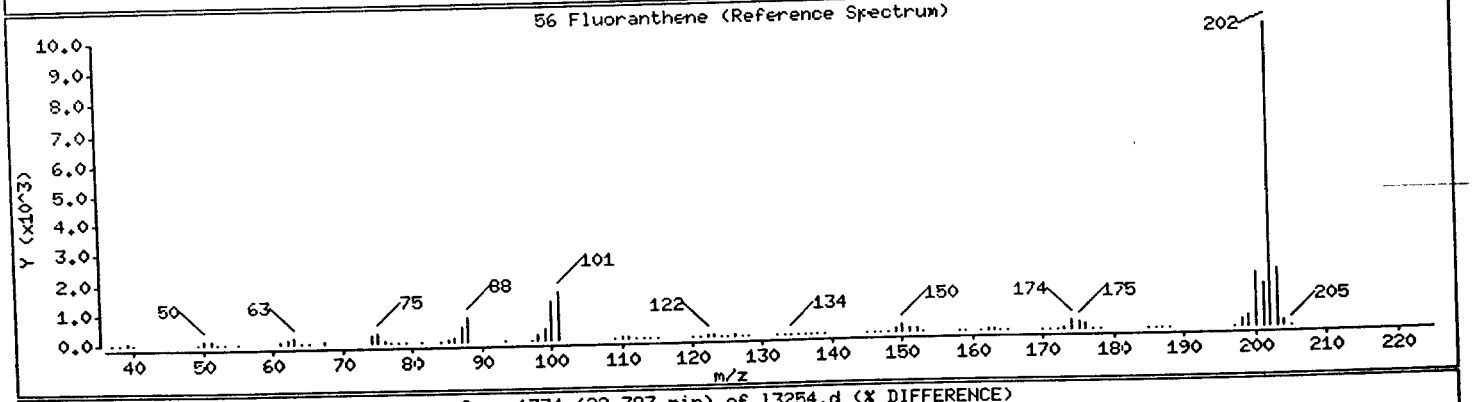
Column diameter: 0.25

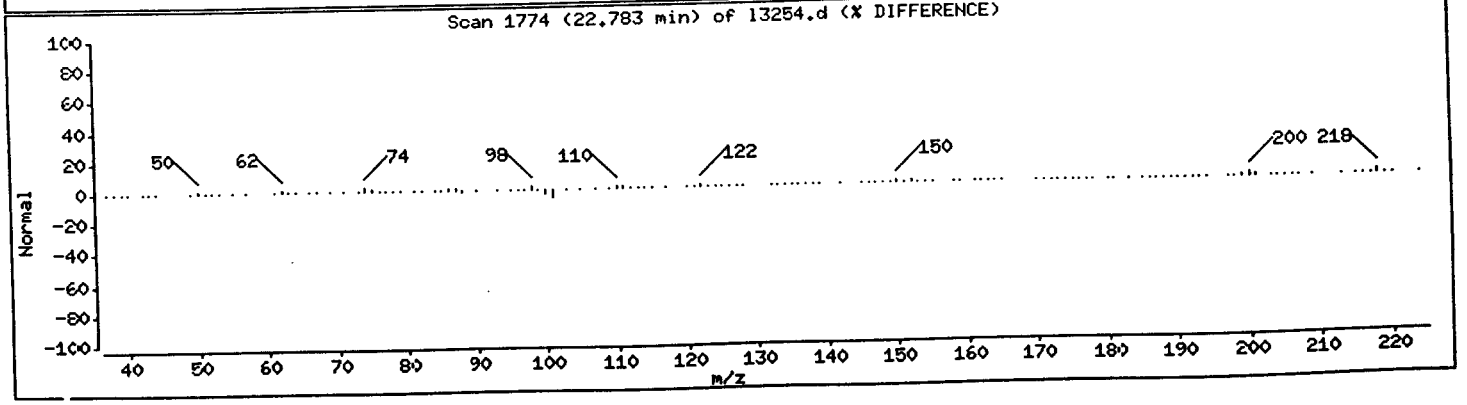
Concentration: 290 ug/Kg

56 Fluoranthene









Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13254.d

Date : 30-OCT-2000 19:26

Client ID: EB-5_1.2-1.7

Instrument: BNAMS7.i

Sample Info: 237816;30;2;1;10.3

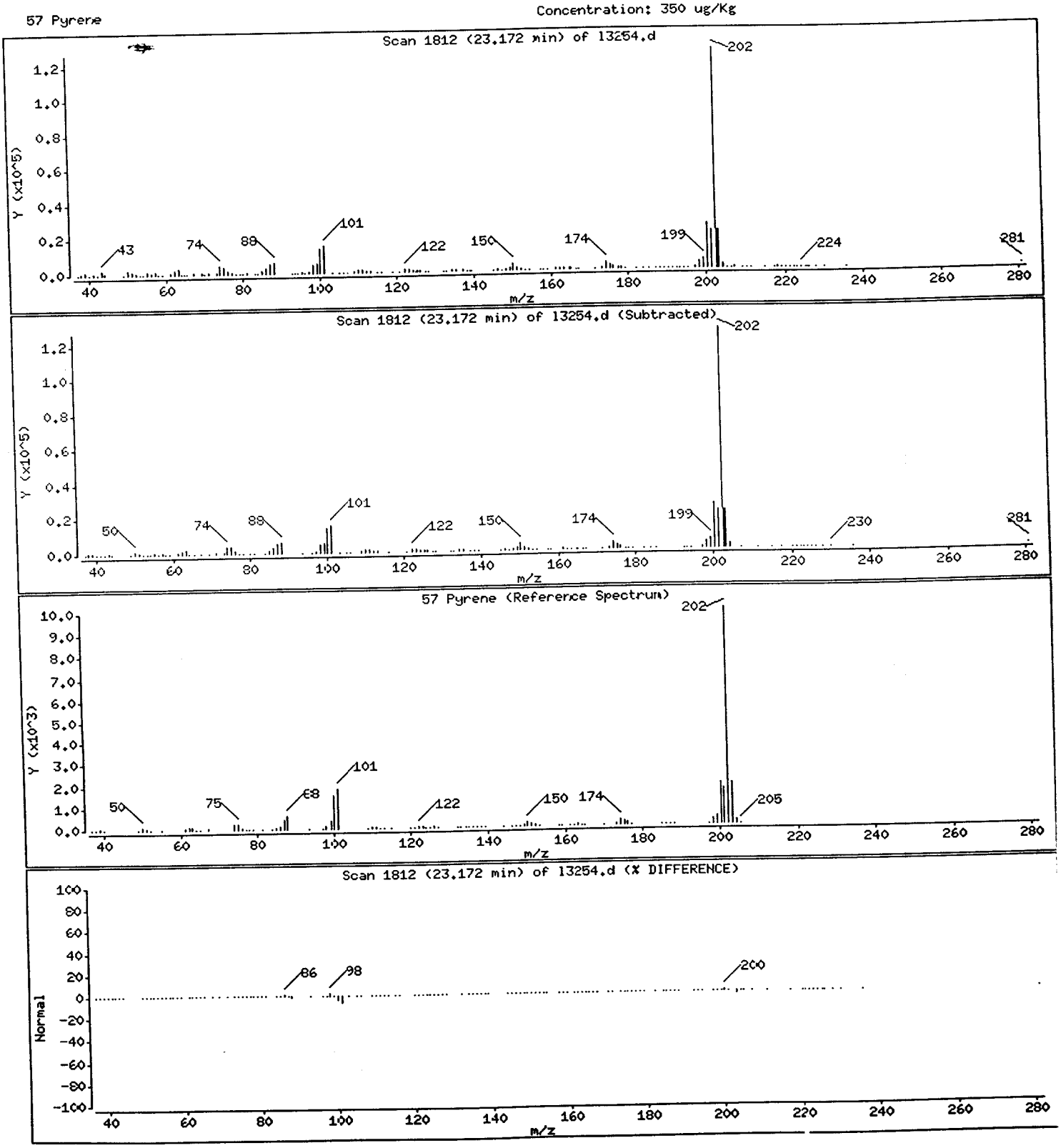
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Concentration: 350 ug/Kg

57 Pyrene



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13254.d

Date : 30-OCT-2000 19:26

Client ID: EB-5_1.2-1.7

Instrument: BNAMS7.i

Sample Info: 237816;30;2;1;10.3

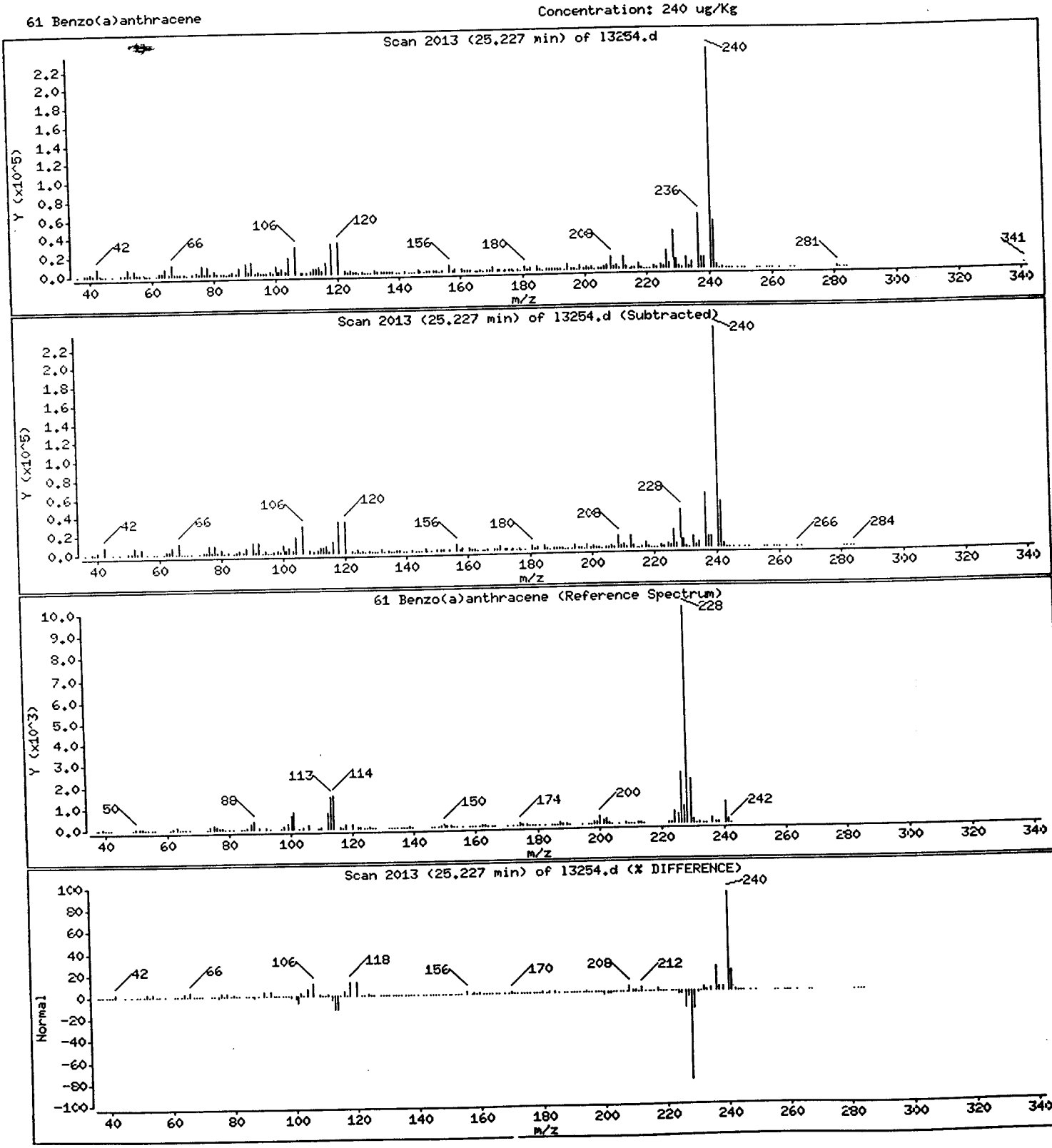
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

61 Benzo(a)anthracene

Concentration: 240 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13254.d

Date : 30-OCT-2000 19:26

Client ID: EB-5_1.2-1.7

Instrument: BNAMS7.i

Sample Info: 237816;30;2;1;10.3

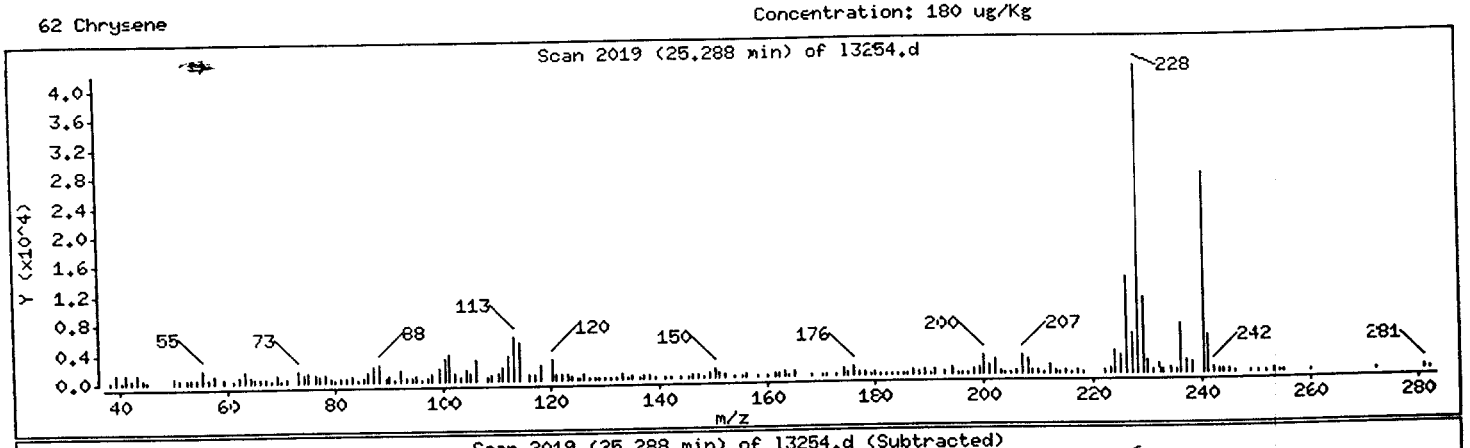
Operator: BNAMS 4

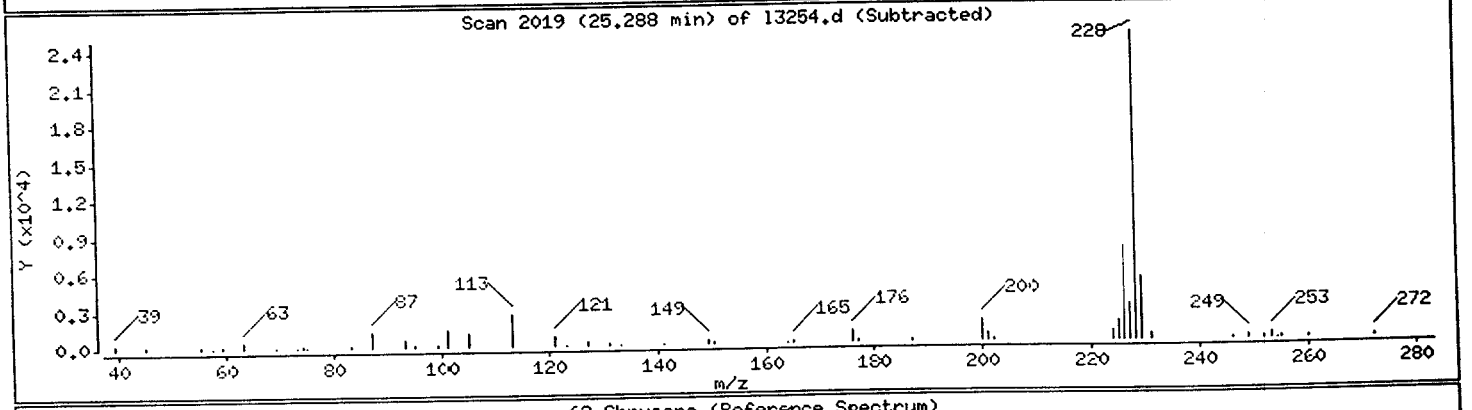
Column phase: DB-5

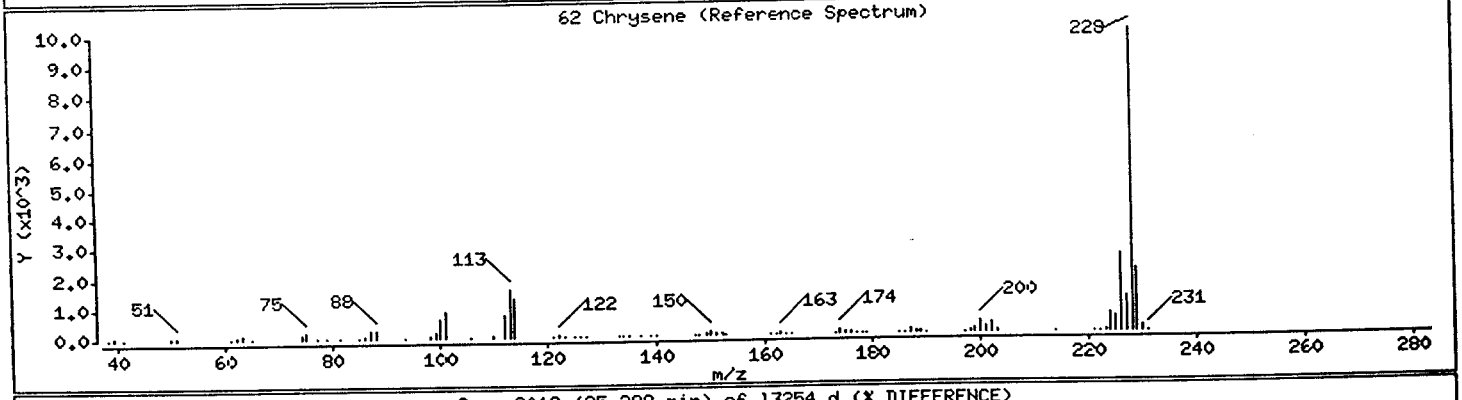
Column diameter: 0.25

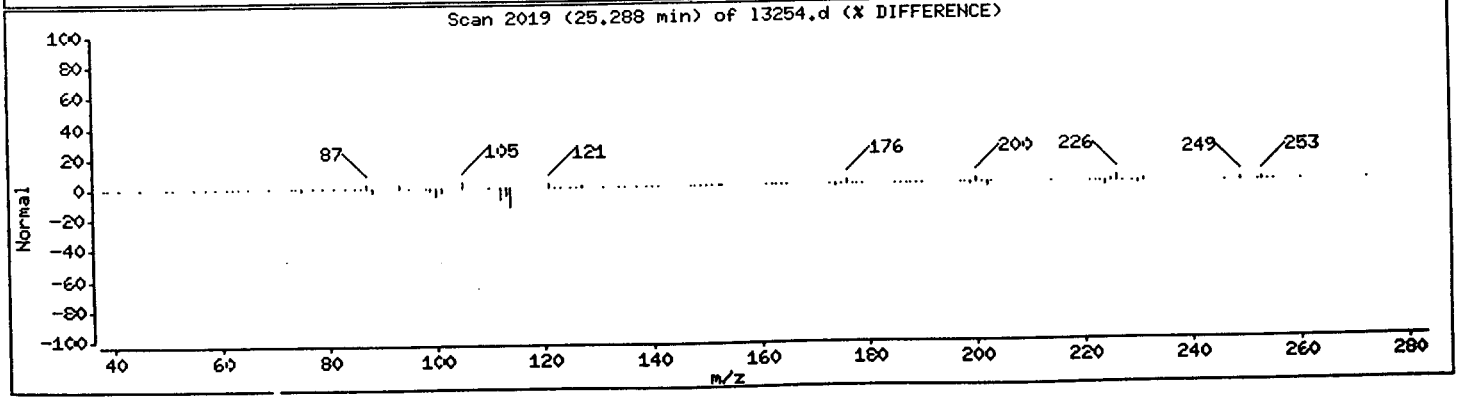
62 Chrysene

Concentration: 180 ug/Kg









Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13254.d

Date : 30-OCT-2000 19:26

Client ID: EB-5_1.2-1.7

Instrument: BNAMS7.i

Sample Info: 237816;30;2;1;10.3

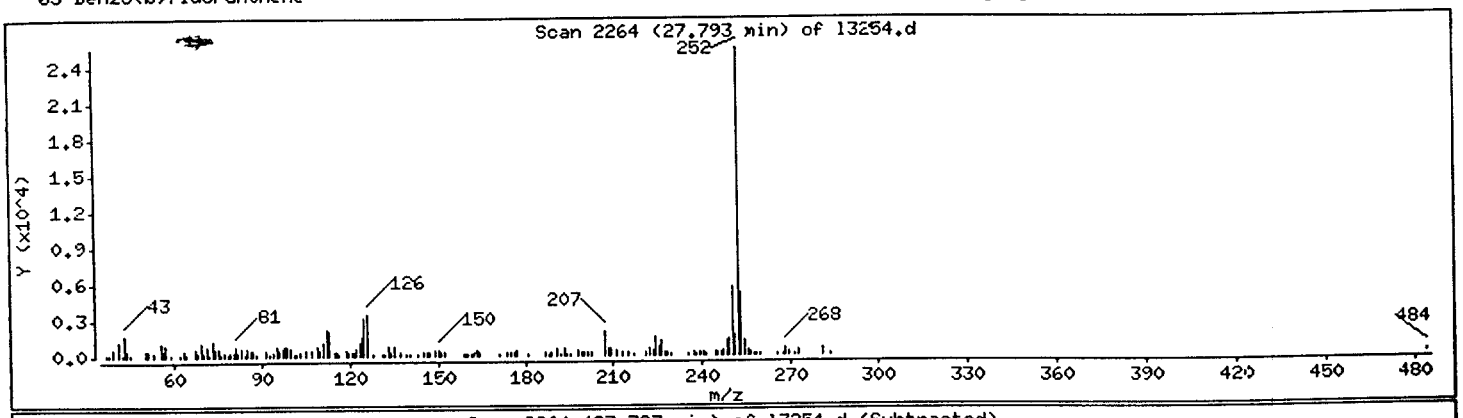
Operator: BNAMS 4

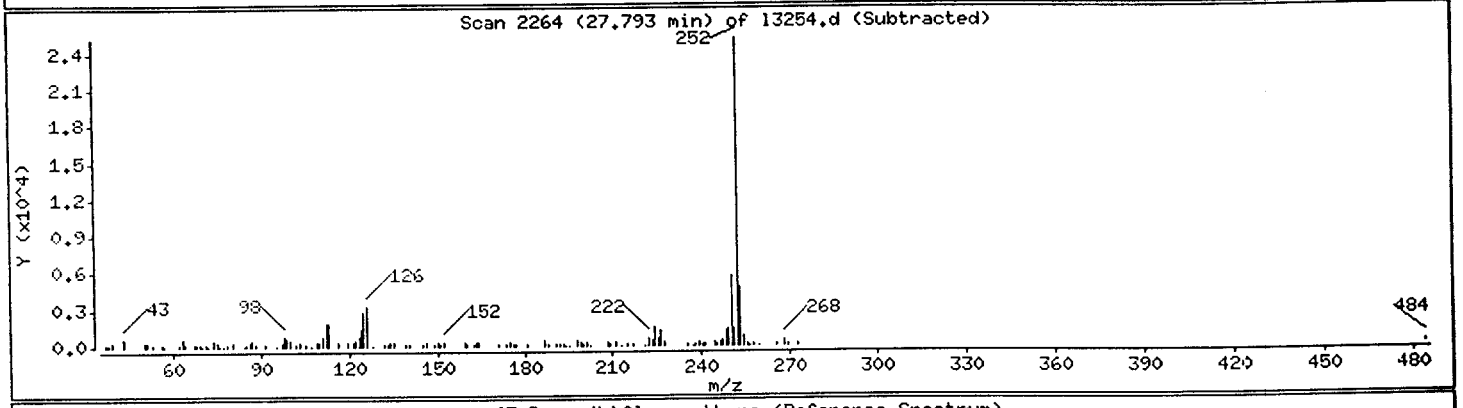
Column phase: DB-5

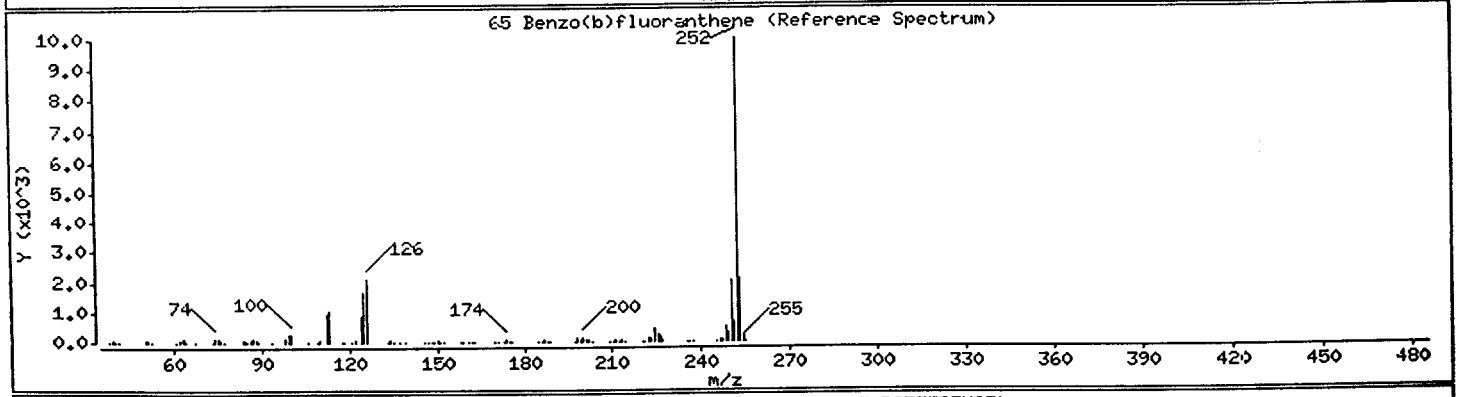
Column diameter: 0.25

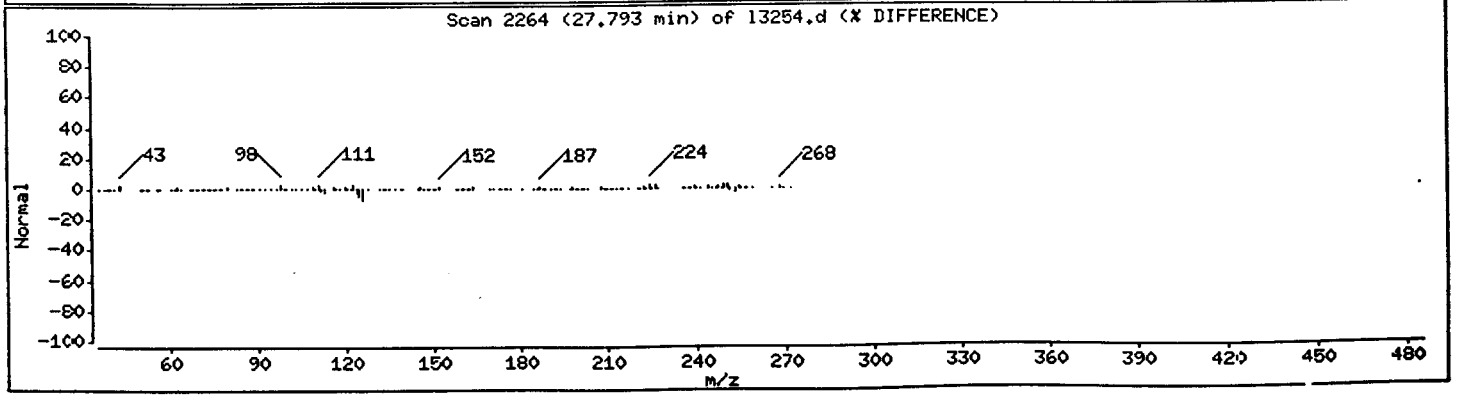
65 Benzo(b)fluoranthene

Concentration: 220 ug/Kg









Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13254.d

Date : 30-OCT-2000 19:26

Client ID: EB-5_1.2-1.7

Instrument: BNAMS7.i

Sample Info: 237816;30;2;1;10.3

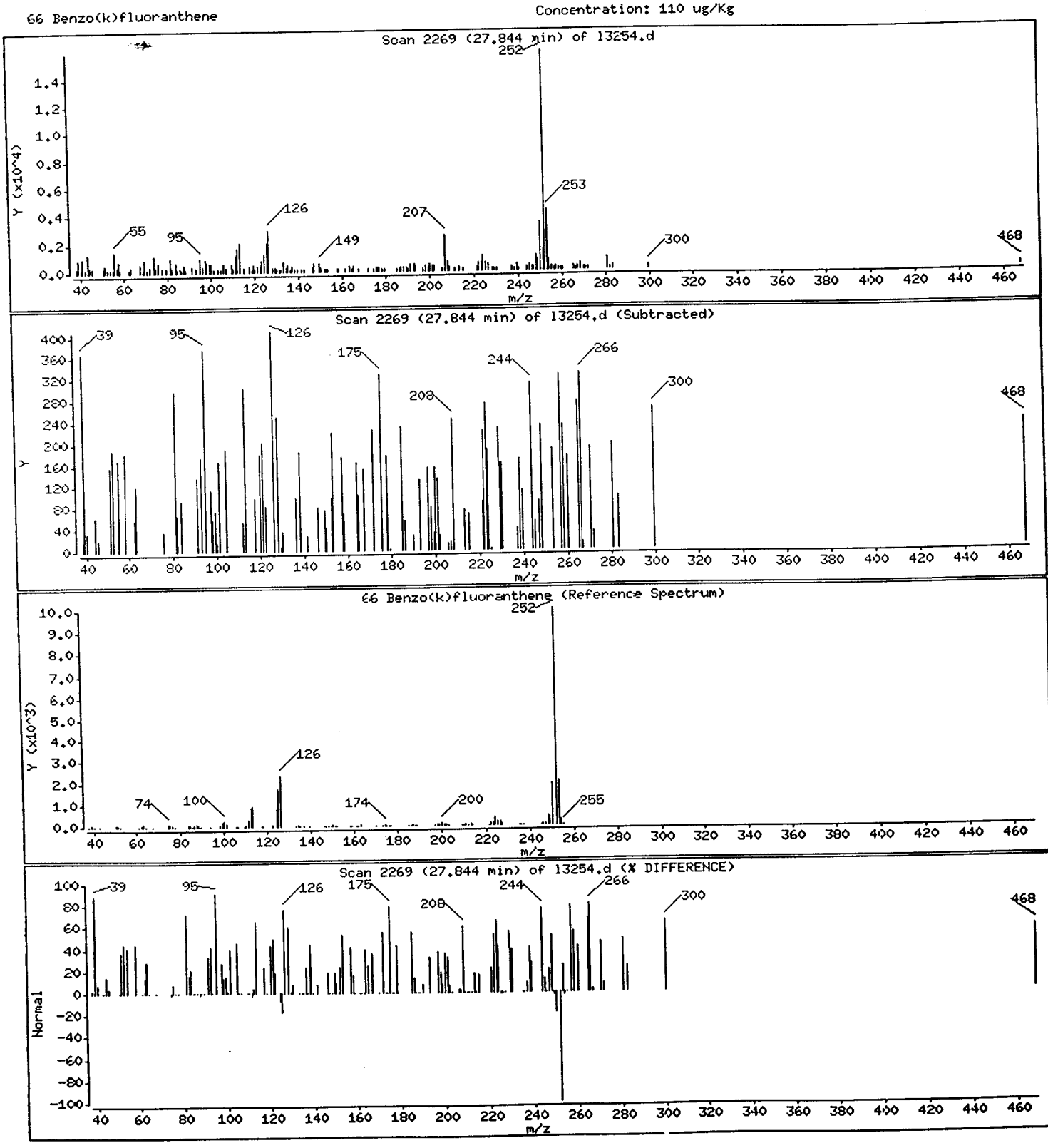
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

66 Benzo(k)fluoranthene

Concentration: 110 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13254.d

Date : 30-OCT-2000 19:26

Client ID: EB-5_1.2-1.7

Instrument: BNAMS7.i

Sample Info: 237816;30;2;1;10.3

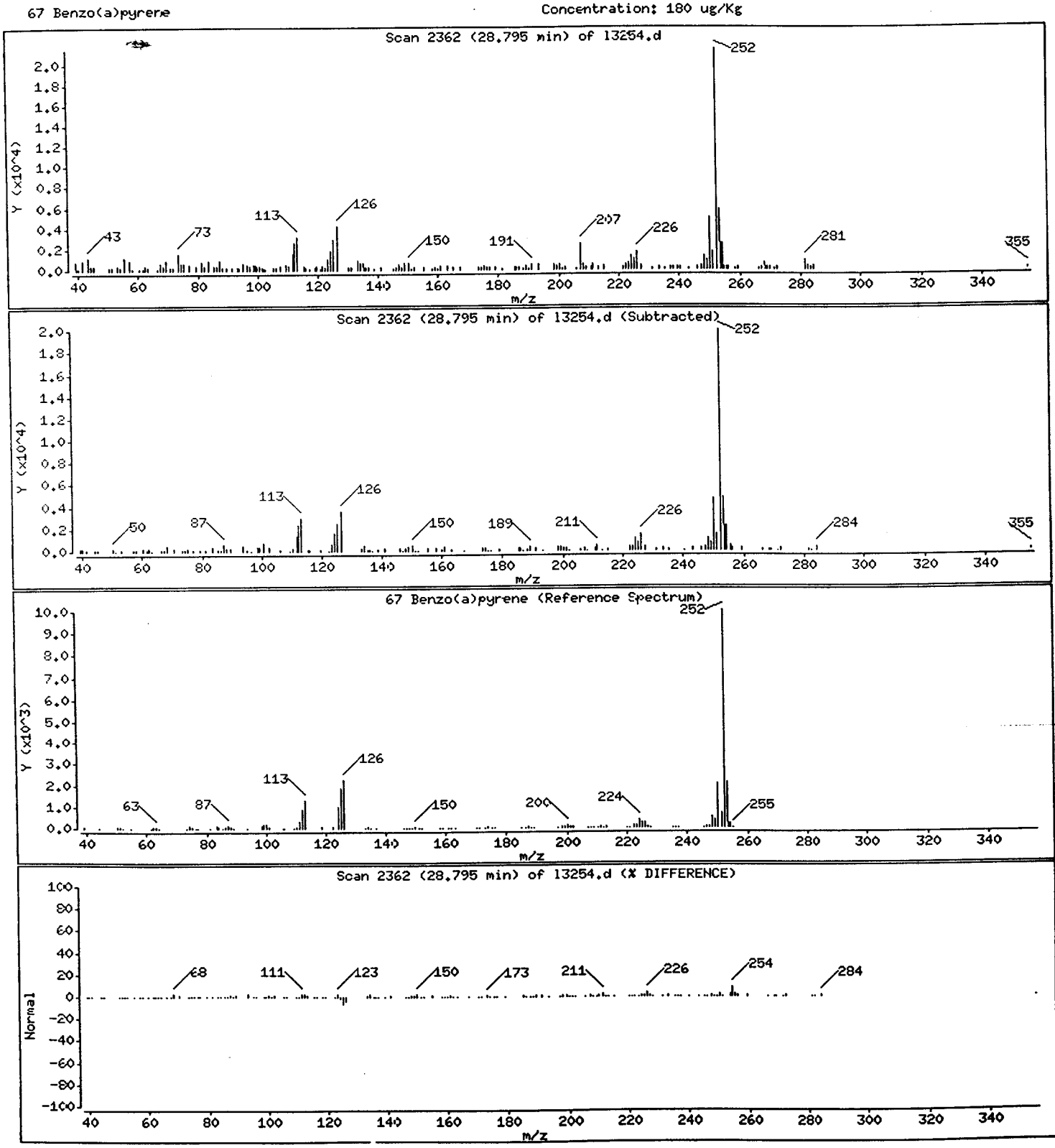
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

67 Benzo(a)pyrene

Concentration: 180 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13254.d

Date : 30-OCT-2000 19:26

Client ID: EB-5_1.2-1.7

Instrument: BNAMS7.i

Sample Info: 237816;30;2;1;10.3

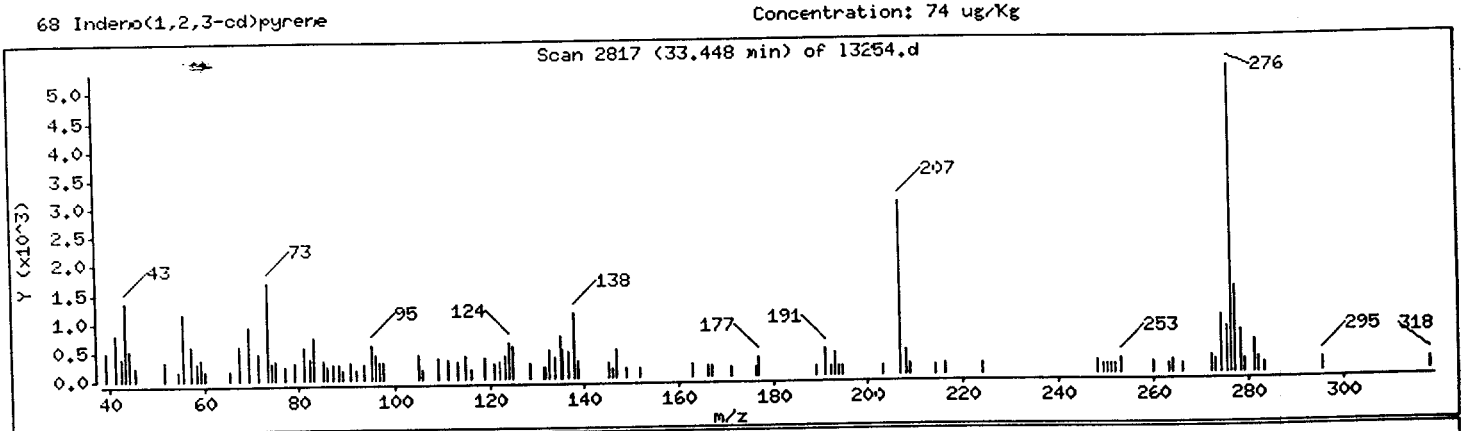
Operator: BNAMS 4

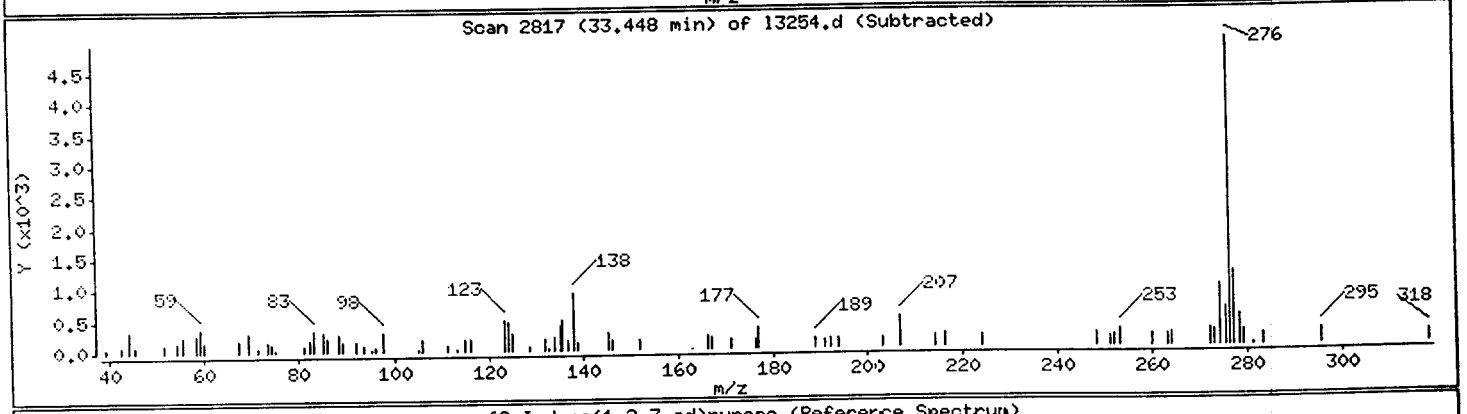
Column phase: DB-5

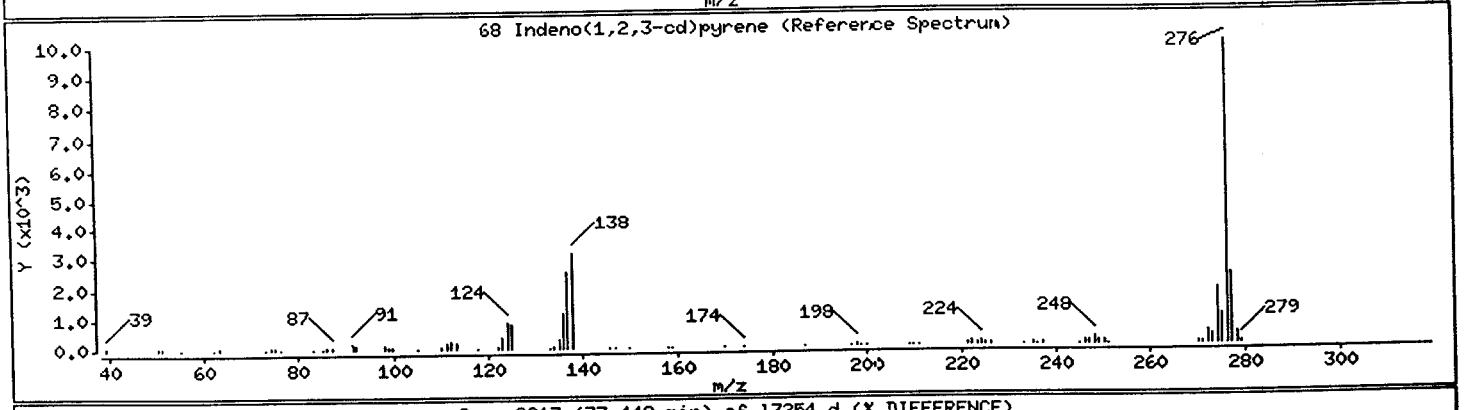
Column diameter: 0.25

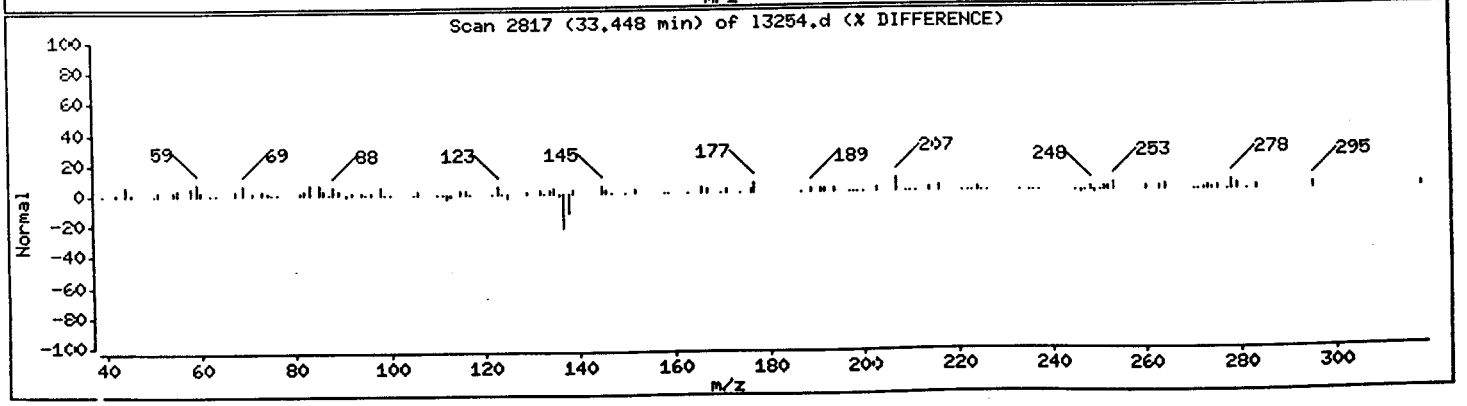
68 Indeno(1,2,3-cd)pyrene

Concentration: 74 ug/Kg









Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13254.d

Date : 30-OCT-2000 19:26

Client ID: EB-5_1.2-1.7

Instrument: BNAMS7.i

Sample Info: 237816;30;2;1;10.3

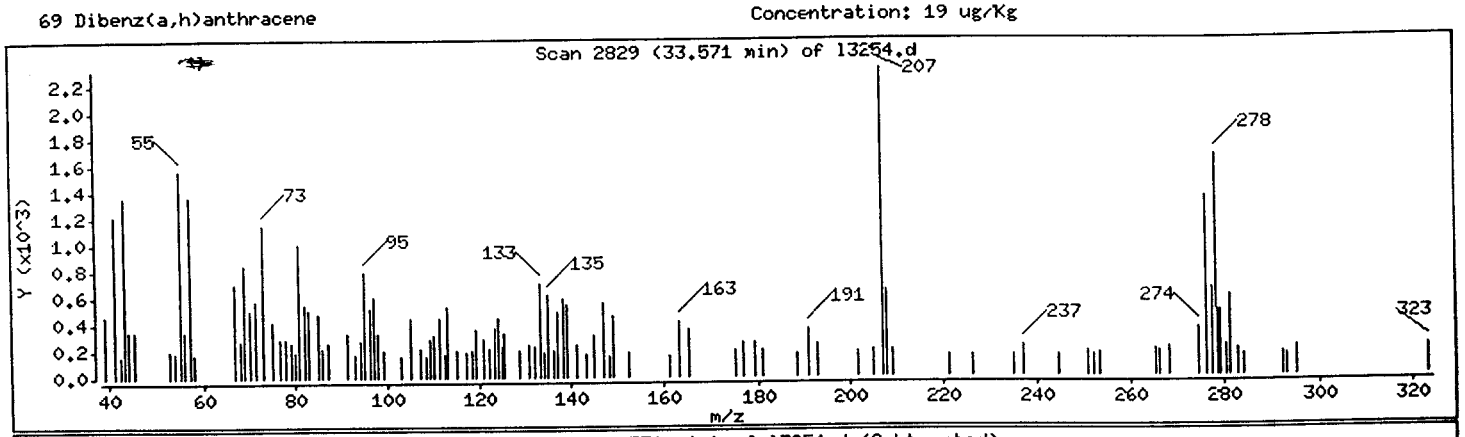
Operator: BNAMS 4

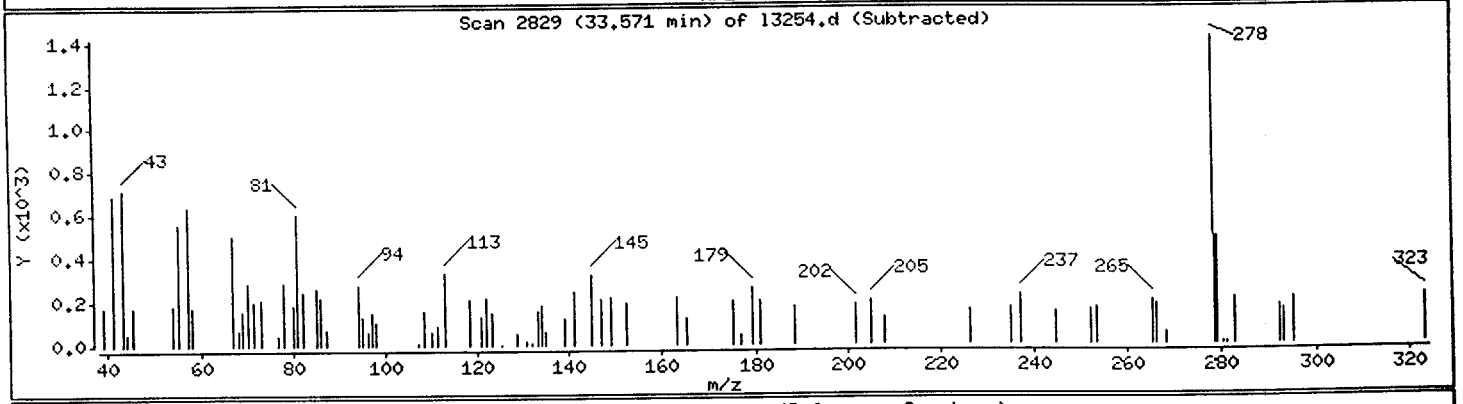
Column phase: DB-5

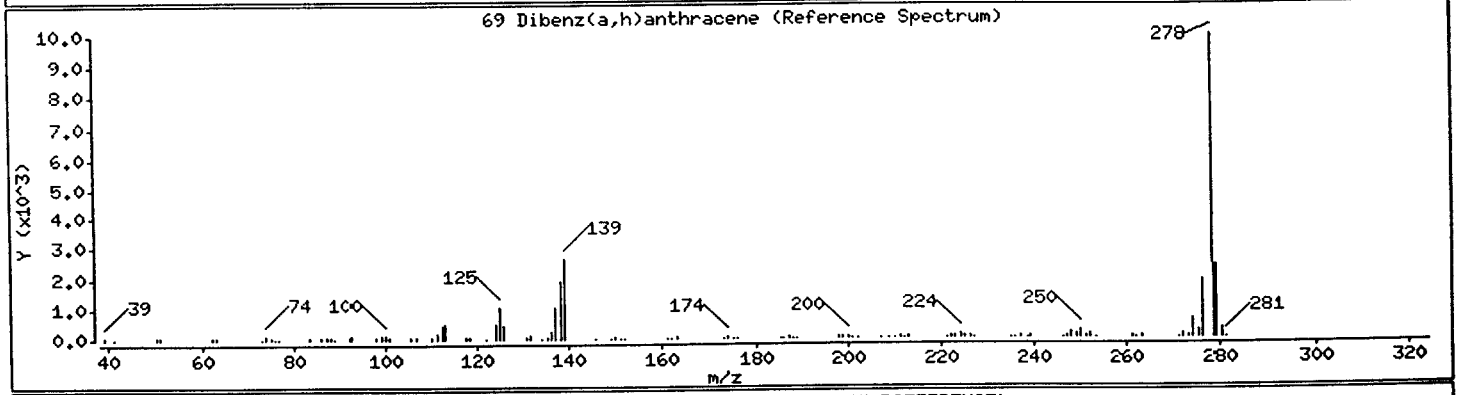
Column diameter: 0.25

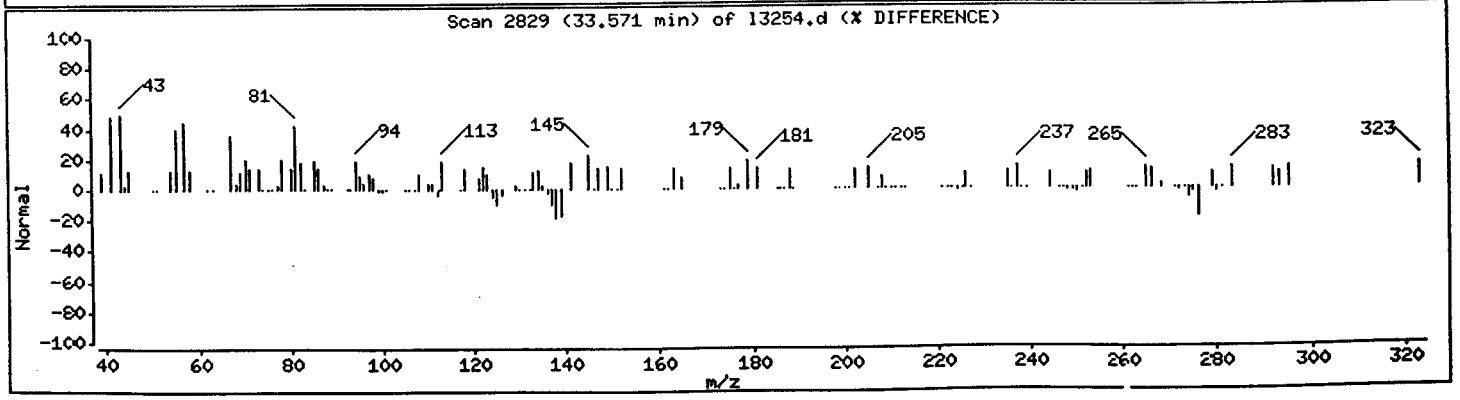
69 Dibenz(a,h)anthracene

Concentration: 19 ug/Kg









Data File: /chem/BNAHS7.i/8270/10-27-00/30oct00A.b/13254.d

Date : 30-OCT-2000 19:26

Client ID: EB-5_1.2-1.7

Instrument: BNAHS7.i

Sample Info: 237816;30;2;1;10.3

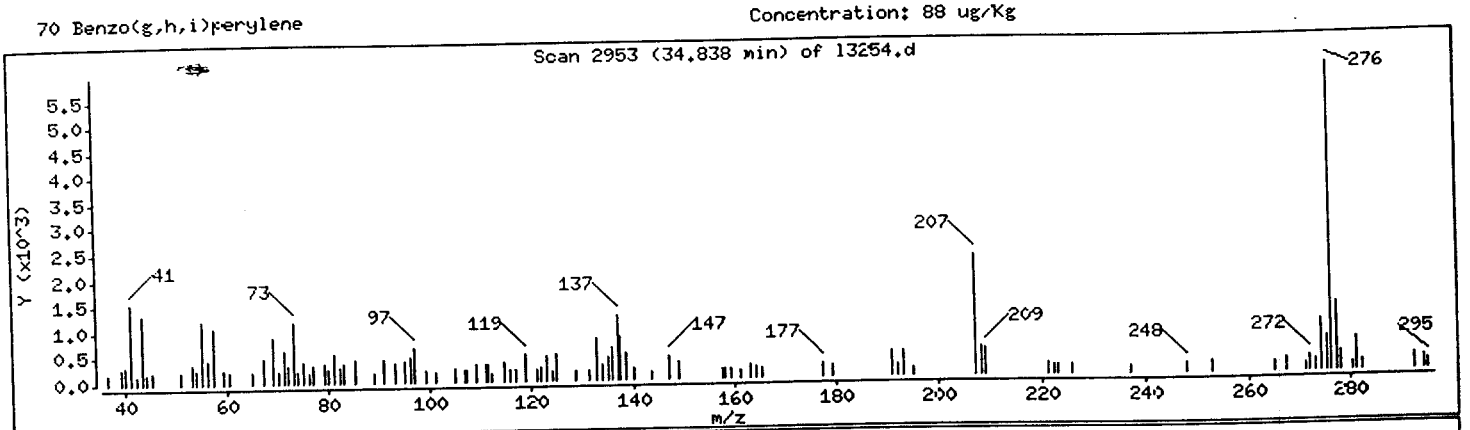
Operator: BNAHS 4

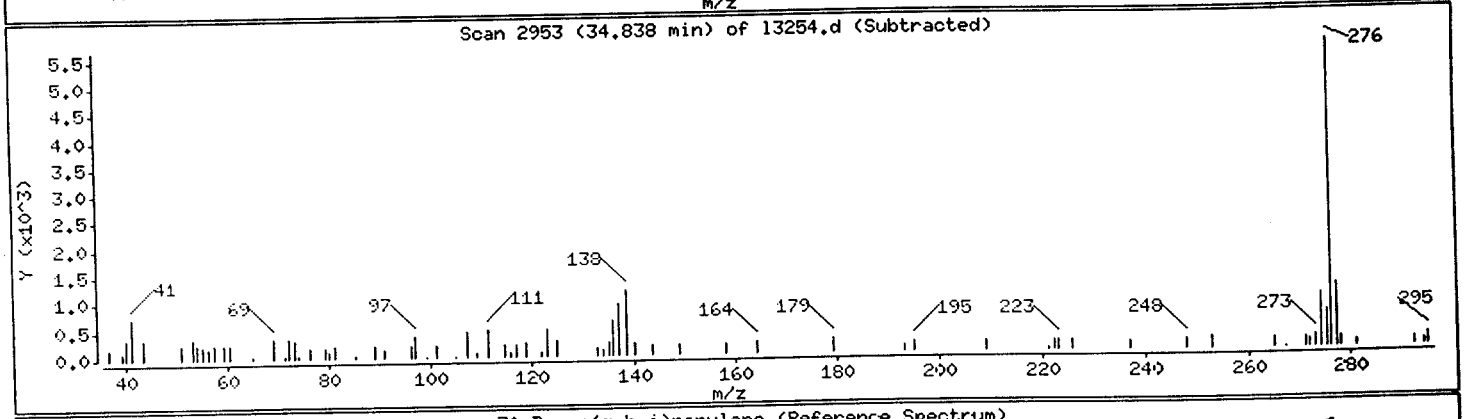
Column phase: DB-5

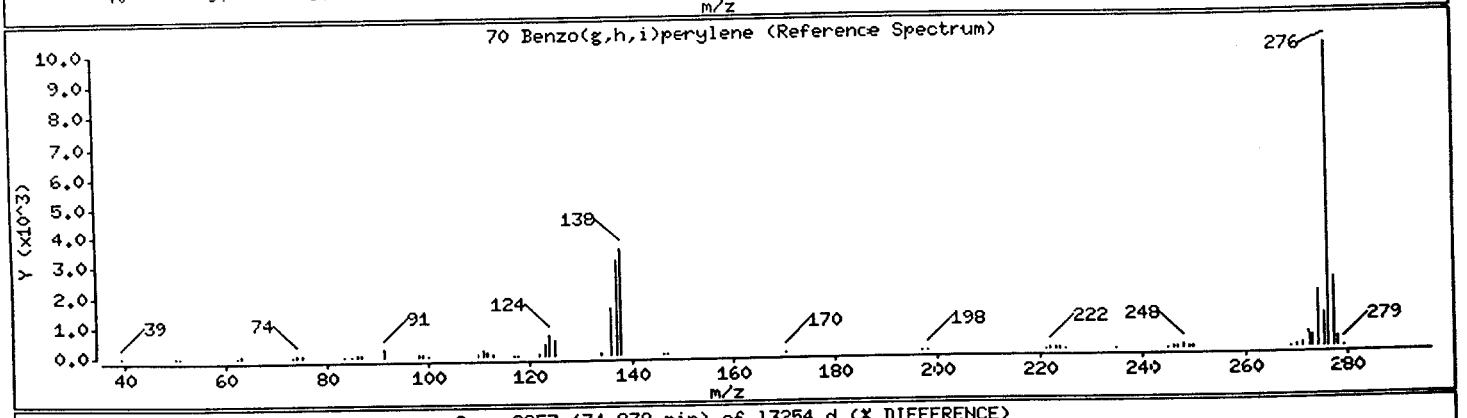
Column diameter: 0.25

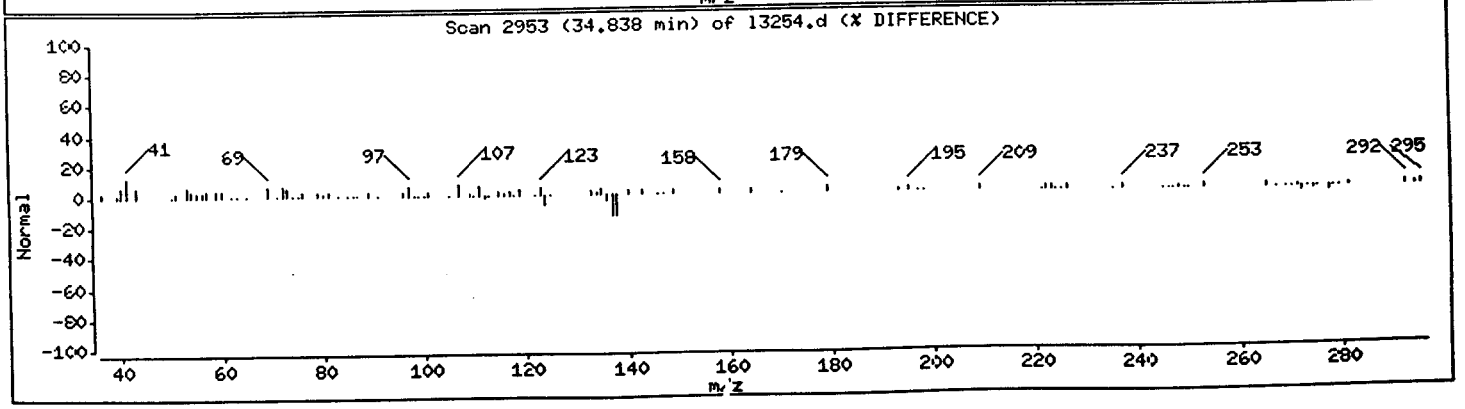
70 Benzo(g,h,i)perylene

Concentration: 88 ug/Kg









Client ID: **EB-6_Outfall**
Site: Rexam DSI

Lab Sample No: **237817**
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3267.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 5.0 ml
Dilution Factor: 5.0
% Moisture: 22

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
N-Nitrosodimethylamine	ND	5400
bis(2-Chloroethyl)ether	ND	540
1,3-Dichlorobenzene	ND	5400
1,4-Dichlorobenzene	ND	5400
1,2-Dichlorobenzene	ND	5400
bis(2-chloroisopropyl)ether	ND	5400
N-Nitroso-di-n-propylamine	ND	540
Hexachloroethane	ND	540
Nitrobenzene	ND	540
Isophorone	ND	5400
bis(2-Chloroethoxy)methane	ND	5400
1,2,4-Trichlorobenzene	ND	540
Naphthalene	ND	5400
Hexachlorobutadiene	ND	1100
Hexachlorocyclopentadiene	ND	5400
2-Chloronaphthalene	ND	5400
Dimethylphthalate	ND	5400
Acenaphthylene	ND	5400
2,6-Dinitrotoluene	ND	1100
Acenaphthene	ND	5400
2,4-Dinitrotoluene	ND	1100
Diethylphthalate	ND	5400
4-Chlorophenyl-phenylether	ND	5400
Fluorene	ND	5400
N-Nitrosodiphenylamine	ND	5400
4-Bromophenyl-phenylether	ND	5400
Hexachlorobenzene	ND	540
Phenanthrene	ND	5400
Anthracene	ND	5400
Di-n-butylphthalate	ND	5400
Fluoranthene	ND	5400
Pyrene	ND	5400
Benzidine	ND	22000
Butylbenzylphthalate	ND	5400

Client ID: **EB-6_Outfall**
Site: Rexam DSI

Lab Sample No: **237817**
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3267.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 5.0 ml
Dilution Factor: 5.0
% Moisture: 22

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
3,3'-Dichlorobenzidine	ND	11000
Benzo(a)anthracene	ND	540
Chrysene	ND	5400
bis(2-Ethylhexyl)phthalate	ND	5400
Di-n-octylphthalate	ND	5400
Benzo(b)fluoranthene	ND	540
Benzo(k)fluoranthene	ND	540
Benzo(a)pyrene	ND	540
Indeno(1,2,3-cd)pyrene	ND	540
Dibenz(a,h)anthracene	ND	540
Benzo(g,h,i)perylene	ND	5400

Client ID: EB-6_Outfall
Site: Rexam DSI

Lab Sample No: 237817
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3267.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 5.0 ml
Dilution Factor: 5.0
% Moisture: 22.5

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. Unknown	15.95	6600	
2. Unknown	23.81	9800	
3. Unknown	25.92	22000	
4. Unknown	27.71	20000	
5. Unknown	28.32	14000	
6. Unknown	28.44	23000	
7. Unknown	28.79	36000	
8. Unknown	30.29	46000	
9. Unknown	31.18	15000	
10. Unknown	32.51	41000	
11. Unknown	32.77	26000	
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION	259400

Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/l3267.d
Report Date: 31-Oct-2000 11:22

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS7.i/8270/10-27-00/31oct00.b/l3267.d
Lab Smp Id: 237817 Client Smp ID: EB-6_Outfall
Inj Date : 31-OCT-2000 07:50
Operator : BNAMS 4 Inst ID: BNAMS7.i
Smp Info : 237817;30;5;5;22.5
Misc Info : F104;PPBN+15;6924;114
Comment :
Method : /chem/BNAMS7.i/8270/10-27-00/31oct00.b/8270C1.m
Meth Date : 31-Oct-2000 06:58 acierno Quant Type: ISTD
Cal Date : 27-OCT-2000 12:29 Cal File: l3224.d
Als bottle: 3
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: PPBNb.sub
Target Version: 3.50
Processing Host: hpd1

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	5.00000	Volume of final extract (ml)
Ws	30.00000	Weight of sample extracted (g)
M	22.50000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
* 79 1,4-Dichlorobenzene-d4	152	13.175	13.180	(1.000)	313465	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	14.116	14.142	(0.919)	54654	4.14248	4400(a)
* 80 Naphthalene-d8	136	15.353	15.358	(1.000)	1275504	40.0000	
$ 77 2-Fluorobiphenyl (SUR)	172	17.143	17.158	(0.937)	74798	3.76484	4000(a)
* 82 Acenaphthene-d10	164	18.298	18.303	(1.000)	730773	40.0000	
* 83 Phenanthrene-d10	188	20.773	20.788	(1.000)	1287876	40.0000	
$ 78 Terphenyl-d14 (SUR)	244	23.411	23.405	(0.926)	104068	5.15299	5500
* 81 Chrysene-d12	240	25.282	25.266	(1.000)	994209	40.0000	
* 84 Perylene-d12	264	29.178	29.050	(1.000)	712207	40.0000	(H)

Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/l3267.d
Report Date: 31-Oct-2000 11:22

QC Flag Legend

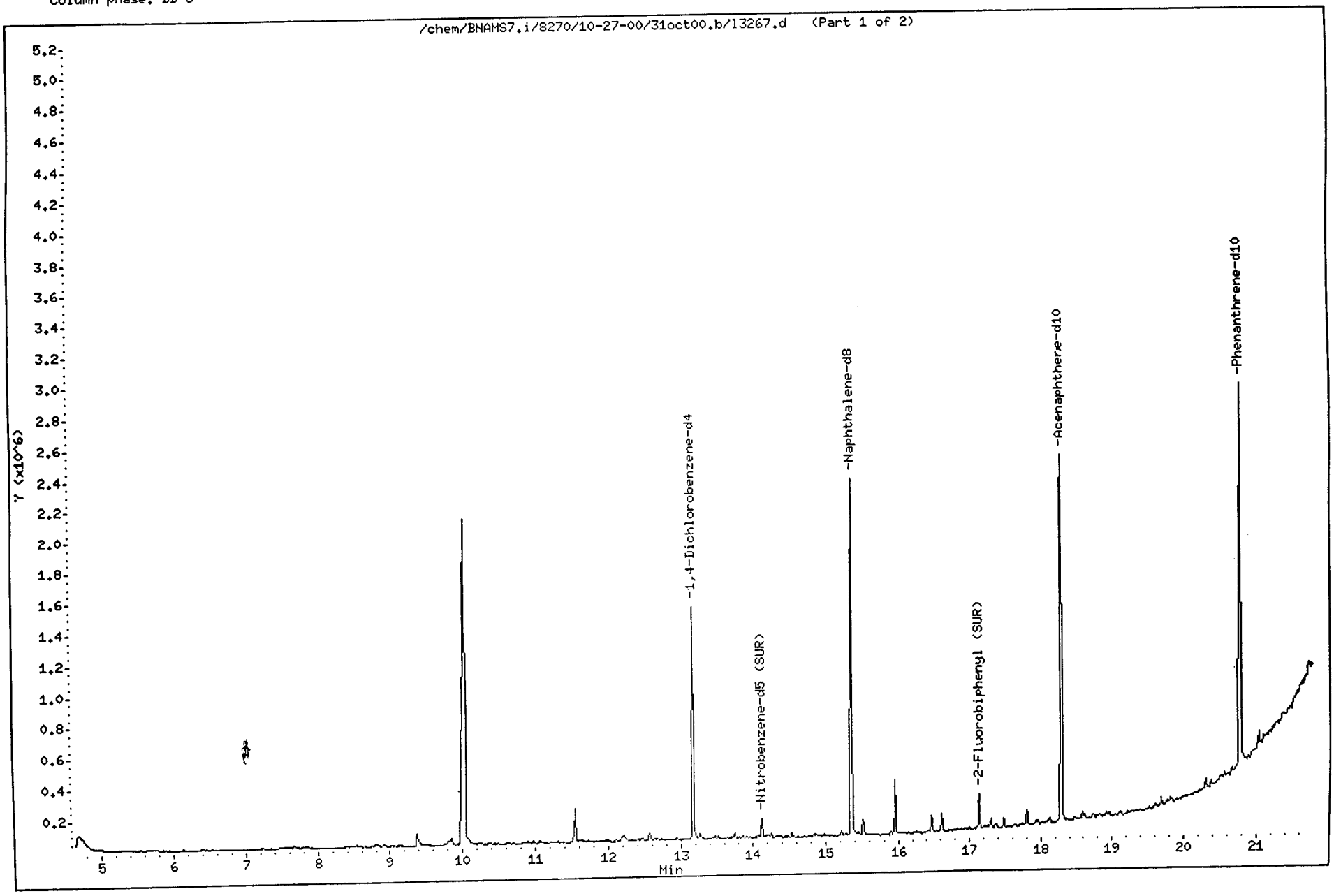
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.

Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13267.d
Date : 31-OCT-2000 07:50
Client ID: EB-6_Outfall
Sample Info: 237817;30;5;5;22.5

Instrument: BNAMS7.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5

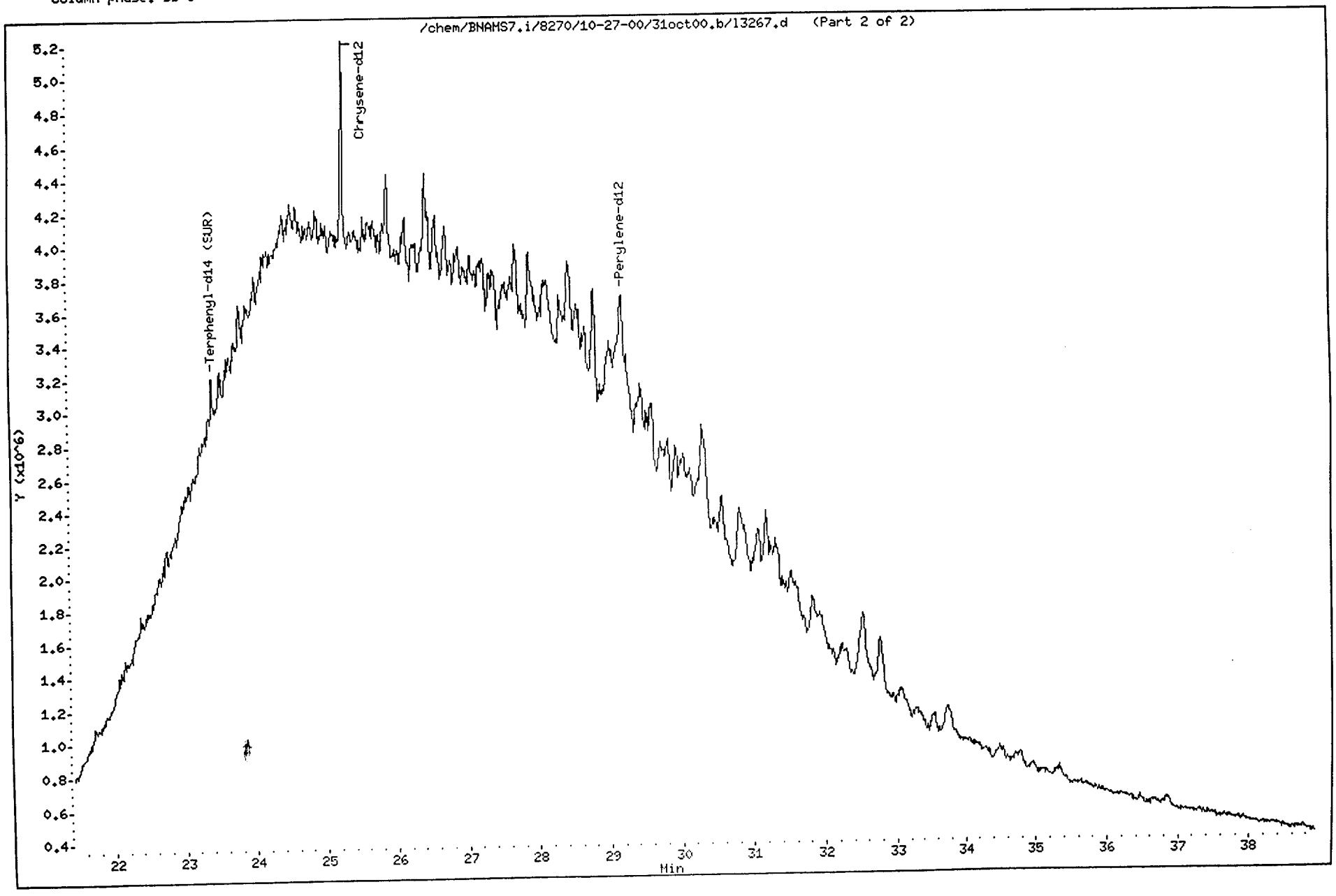


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Date : 31-OCT-2000 07:50
Client ID: EB-6_Outfall
Sample Info: 237817;30;5;5;22.5

Instrument: BNAMS7.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13267.d

Date : 31-OCT-2000 07:50

Client ID: EB-6_Outfall

Instrument: BNAMS7.i

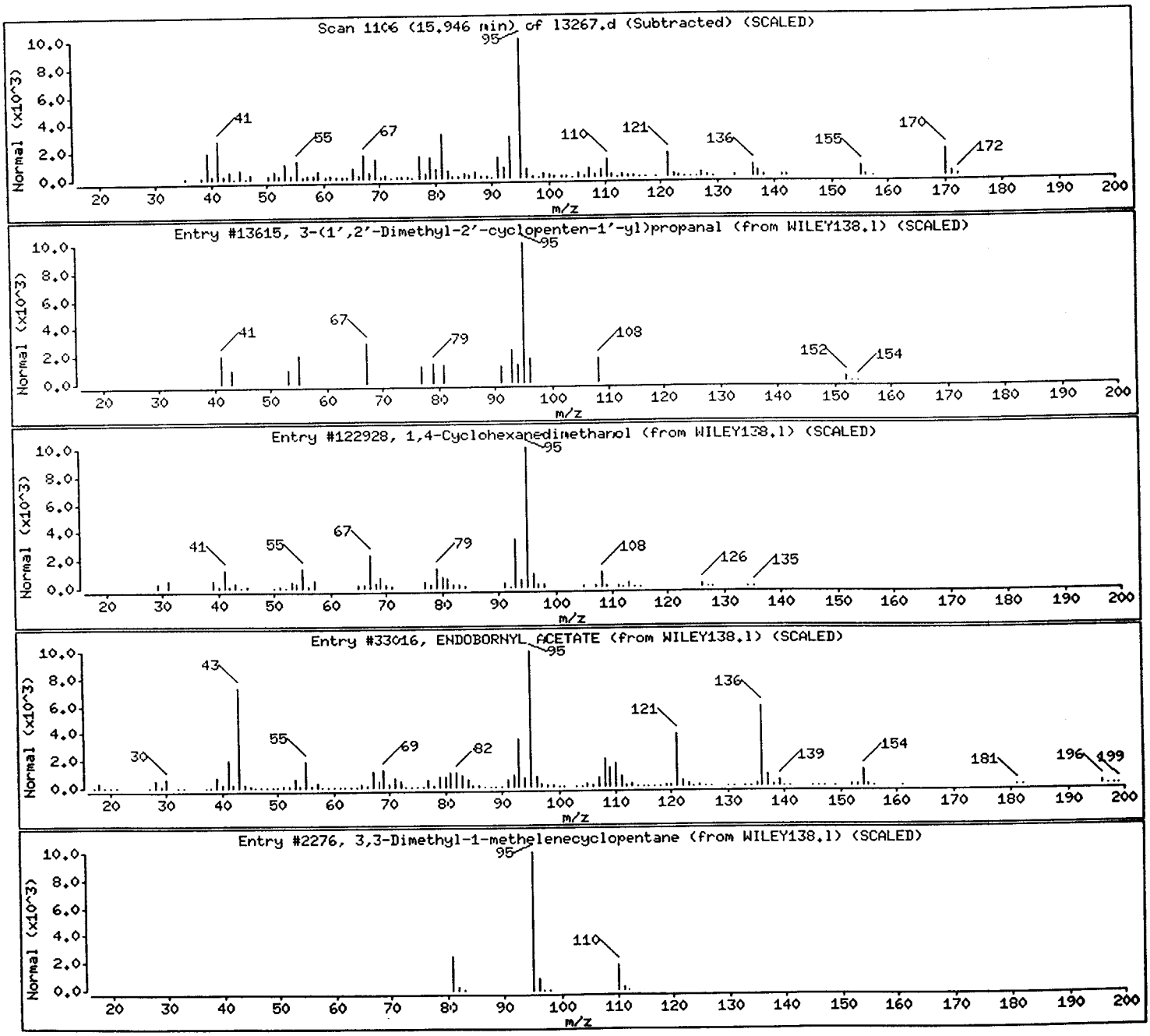
Sample Info: 237817;30;5;5;22.5

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Hatch	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
3-(1',2'-Dimethyl-2'-cyclopenten-1'-yl)p	75698-04-3	WILEY138.l	13615	50	C10H16O	152
1,4-Cyclohexanedimethanol	105-08-8	WILEY138.l	122928	50	C8H16O2	144
ENDOBORNYL ACETATE	76-49-3	WILEY138.l	33016	50	C12H20O2	196
3,3-Dimethyl-1-methelenecyclopentane	78343-76-7	WILEY138.l	2276	49	C8H14	110



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13267.d

Date : 31-OCT-2000 07:50

Client ID: EB-6_Outfall

Instrument: BNAMS7.i

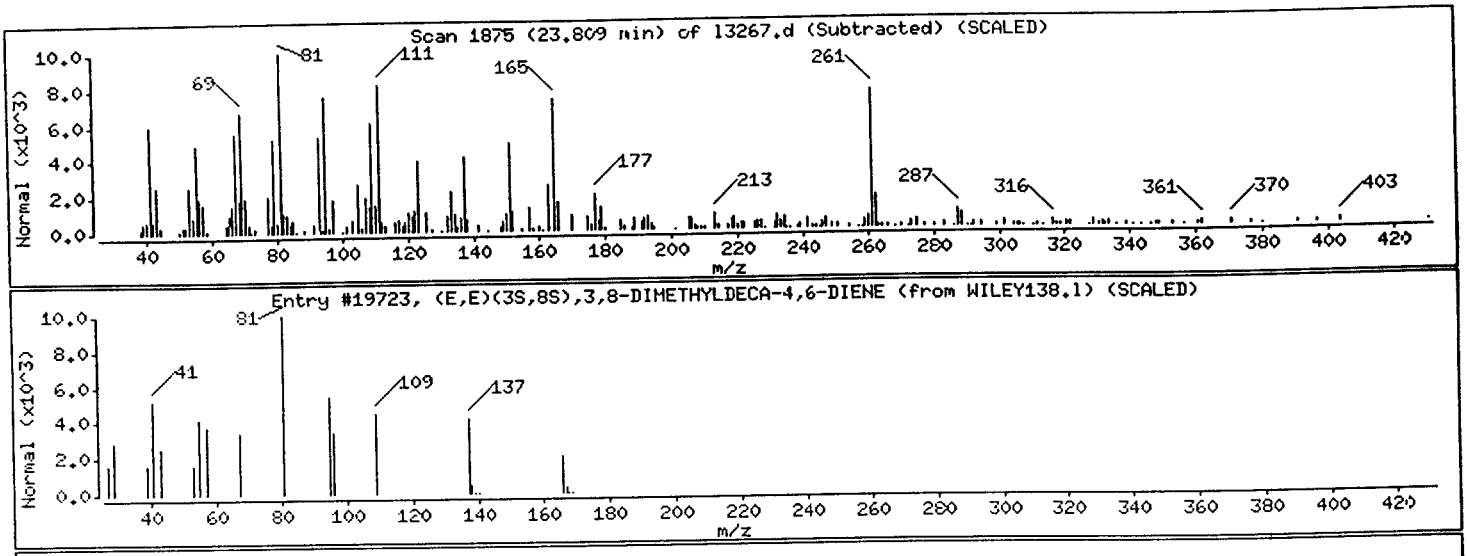
Sample Info: 237817;30;5;5;22.5

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown (E,E)(3S,8S),3,8-DIMETHYLDECA-4,6-DIENE	67730-63-6	WILEY138.l	19723	38	C12H22	166



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13267.d

Date : 31-OCT-2000 07:50

Client ID: EB-6_Outfall

Instrument: BNAMS7.i

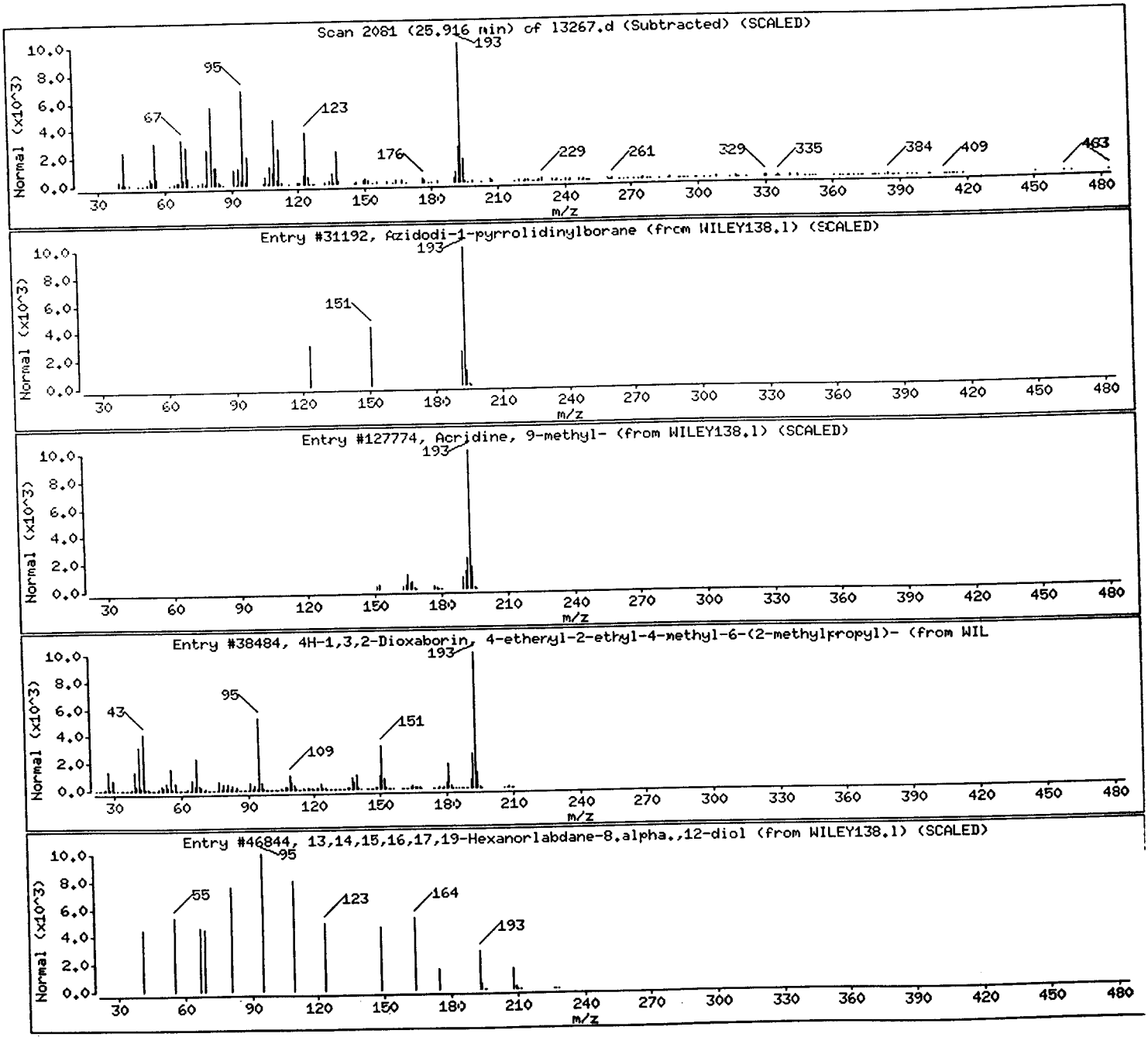
Sample Info: 237817;30;5;5;22.5

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Azidodi-1-pyrrolidinylborane	80476-62-6	WILEY138.1	31192	80	C8H16BN5	193
Acridine, 9-methyl-	611-64-3	WILEY138.1	127774	74	C14H11N	193
4H-1,3,2-Dioxaborin, 4-ethenyl-2-ethyl-4	74630-04-9	WILEY138.1	38484	47	C12H21BO2	208
13,14,15,16,17,19-Hexanorlabdane-8.alpha	82053-50-7	WILEY138.1	46844	42	C14H26O2	226



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13267.d

Date : 31-OCT-2000 07:50

Client ID: EB-6_Outfall

Instrument: BNAMS7.i

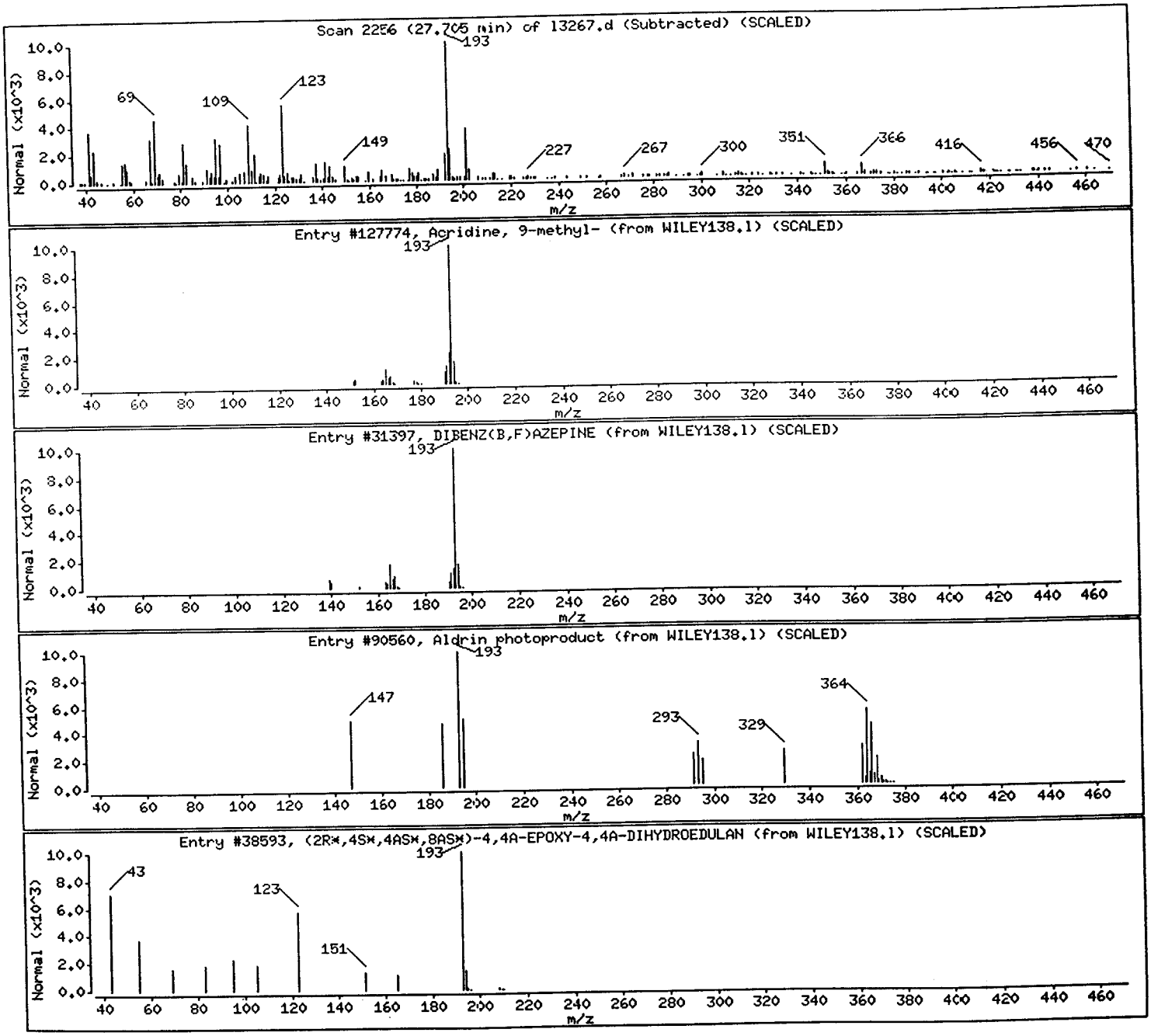
Sample Info: 237817;30;5;5;22.5

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Hatch	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Acridine, 9-methyl-	611-64-3	WILEY138.1	127774	72	C14H11N	193
DIBENZ(B,F)AZEPINE	0-00-0	WILEY138.1	31397	64	C14H11N	193
Aldrin photoproduct	0-00-0	WILEY138.1	90560	47	C12H8C16	362
(2R*,4S*,4AS*,8AS*)-4,4A-EPOXY-4,4A-DIHY	69979-86-8	WILEY138.1	38593	43	C13H20O2	208



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13267.d

Date : 31-OCT-2000 07:50

Client ID: EB-6_Outfall

Instrument: BNAMS7.i

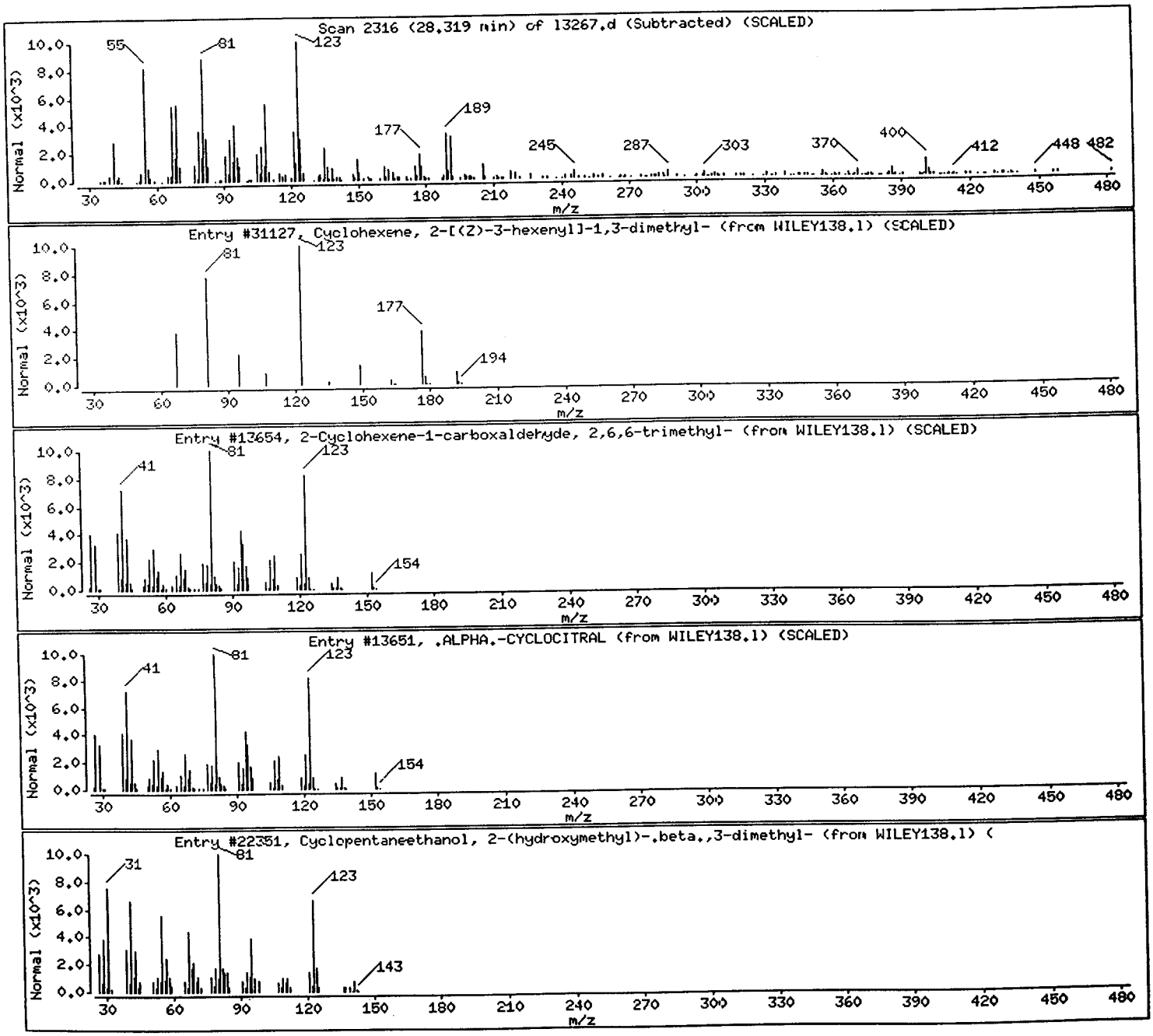
Sample Info: 237817;30;5;5;22.5

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclohexene, 2-[(Z)-3-hexenyl]-1,3-dimet	83538-15-2	WILEY138.l	31127	43	C14H24	192
2-Cyclohexene-1-carboxaldehyde, 2,6,6-tr	432-24-6	WILEY138.l	13654	40	C10H16O	152
.ALPHA.-CYCLOCITRAL	14505-74-9	WILEY138.l	13651	40	C10H16O	152
Cyclopentaneethanol, 2-(hydroxymethyl)-.	485-42-7	WILEY138.l	22351	40	C10H20O2	172



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13267.d

Date : 31-OCT-2000 07:50

Client ID: EB-6_Outfall

Instrument: BNAMS7.i

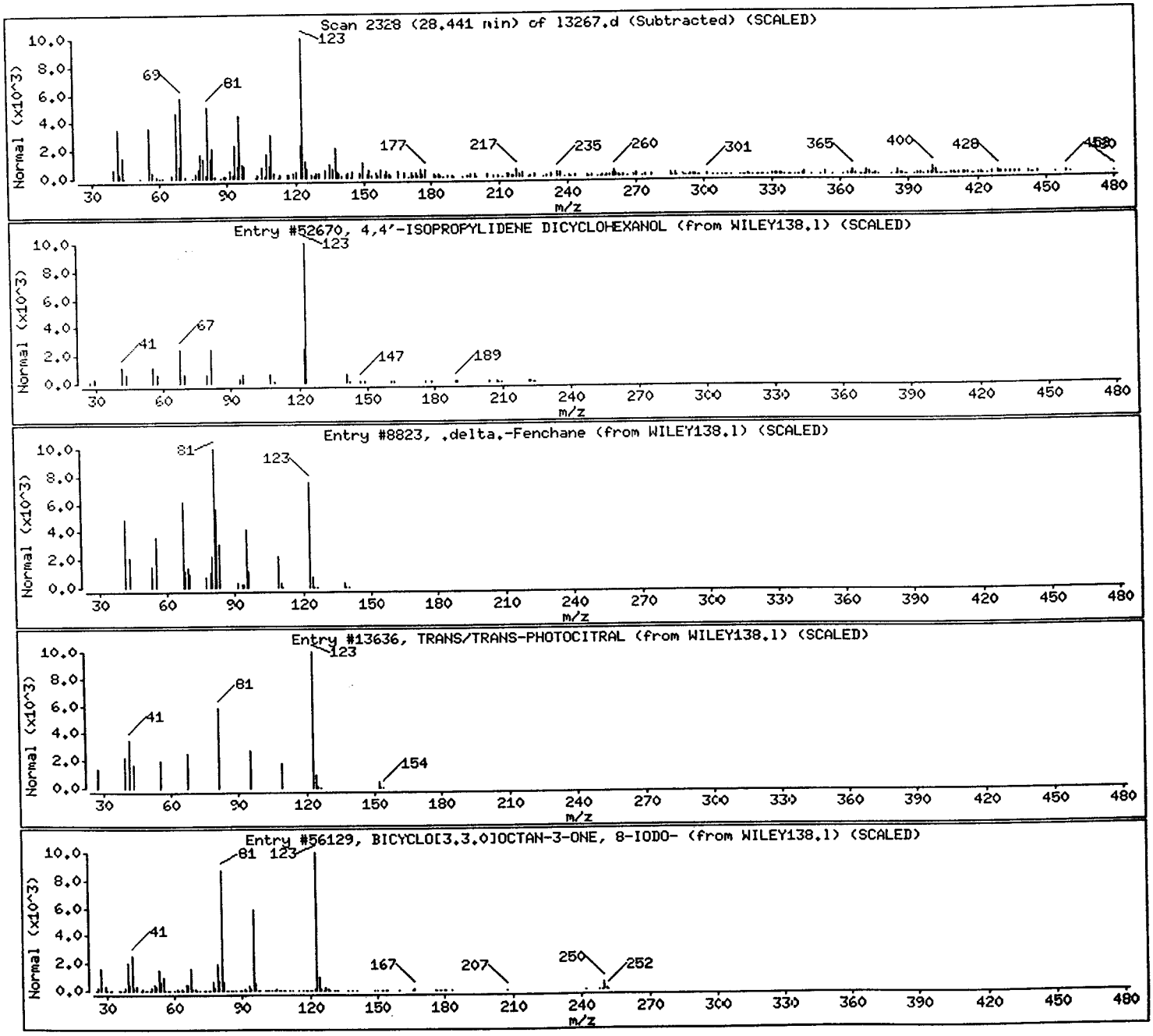
Sample Info: 237817;30;5;5;22.5

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
4,4'-ISOPROPYLIDENE DICYCLOHEXANOL	0-00-0	WILEY138.l	52670	47	C15H28O2	240
.delta.-Fenchane	6248-68-0	WILEY138.l	8823	47	C10H18	138
TRANS/TRANS-PHOTOCITRAL	55253-27-5	WILEY138.l	13636	43	C10H16O	152
BICYCLO[3.3.0]OCTAN-3-ONE, 8-IODO-	0-00-0	WILEY138.l	56129	43	C8H11IO	250



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13267.d

Date : 31-OCT-2000 07:50

Client ID: EB-6_Outfall

Instrument: BNAMS7.i

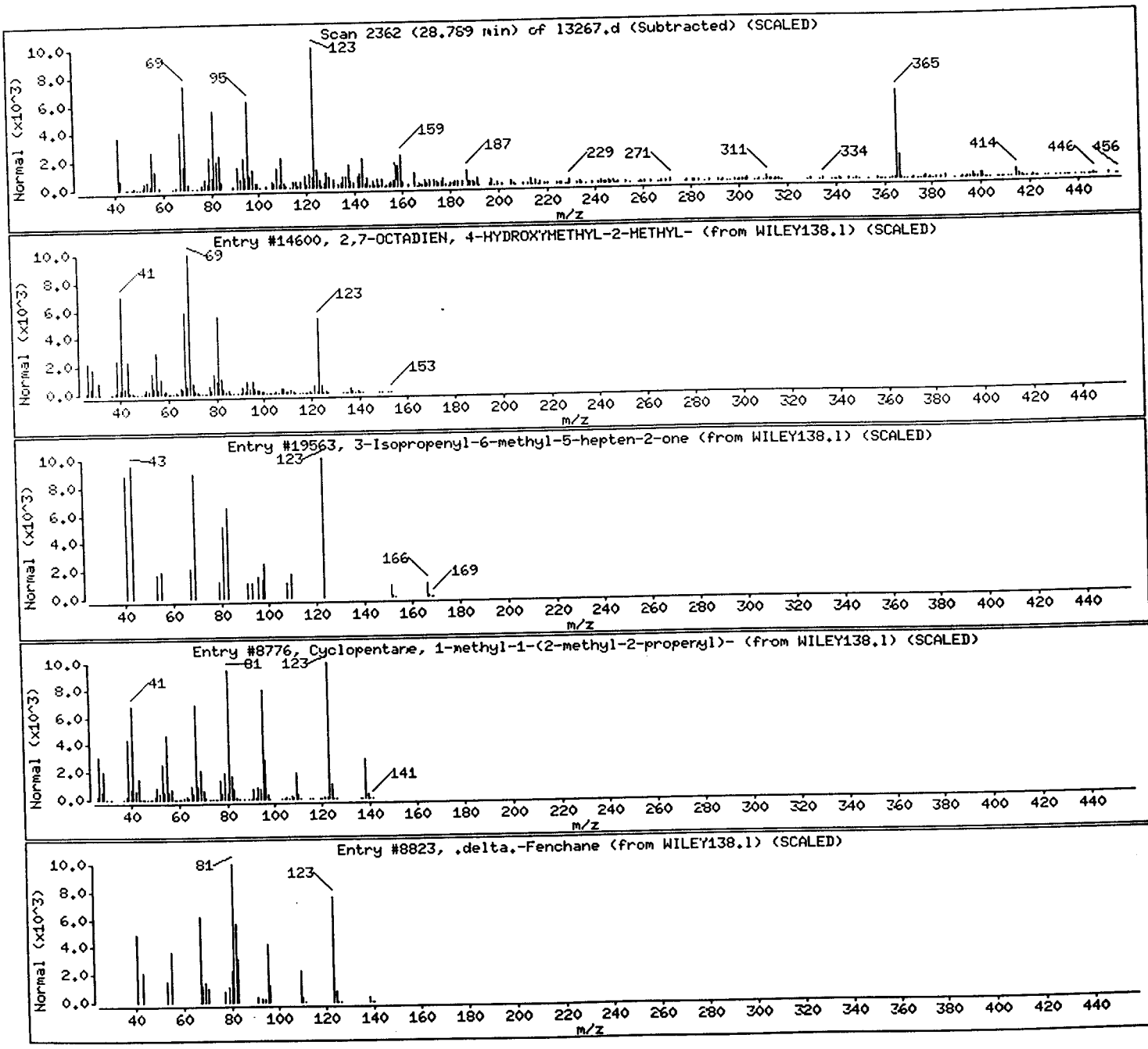
Sample Info: 237817;30;5;5;22.5

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2,7-OCTADIEN, 4-HYDROXYMETHYL-2-METHYL-	0-00-0	WILEY138.1	14600	47	C10H18O	154
3-Isopropenyl-6-methyl-5-hepten-2-one	26533-38-0	WILEY138.1	19563	32	C11H18O	166
Cyclopentane, 1-methyl-1-(2-methyl-2-pro	74764-47-9	WILEY138.1	8776	32	C10H18	138
.delta.-Fenchane	6248-88-0	WILEY138.1	8823	25	C10H18	138



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13267.d

Date : 31-OCT-2000 07:50

Client ID: EB-6_Outfall

Instrument: BNAMS7.i

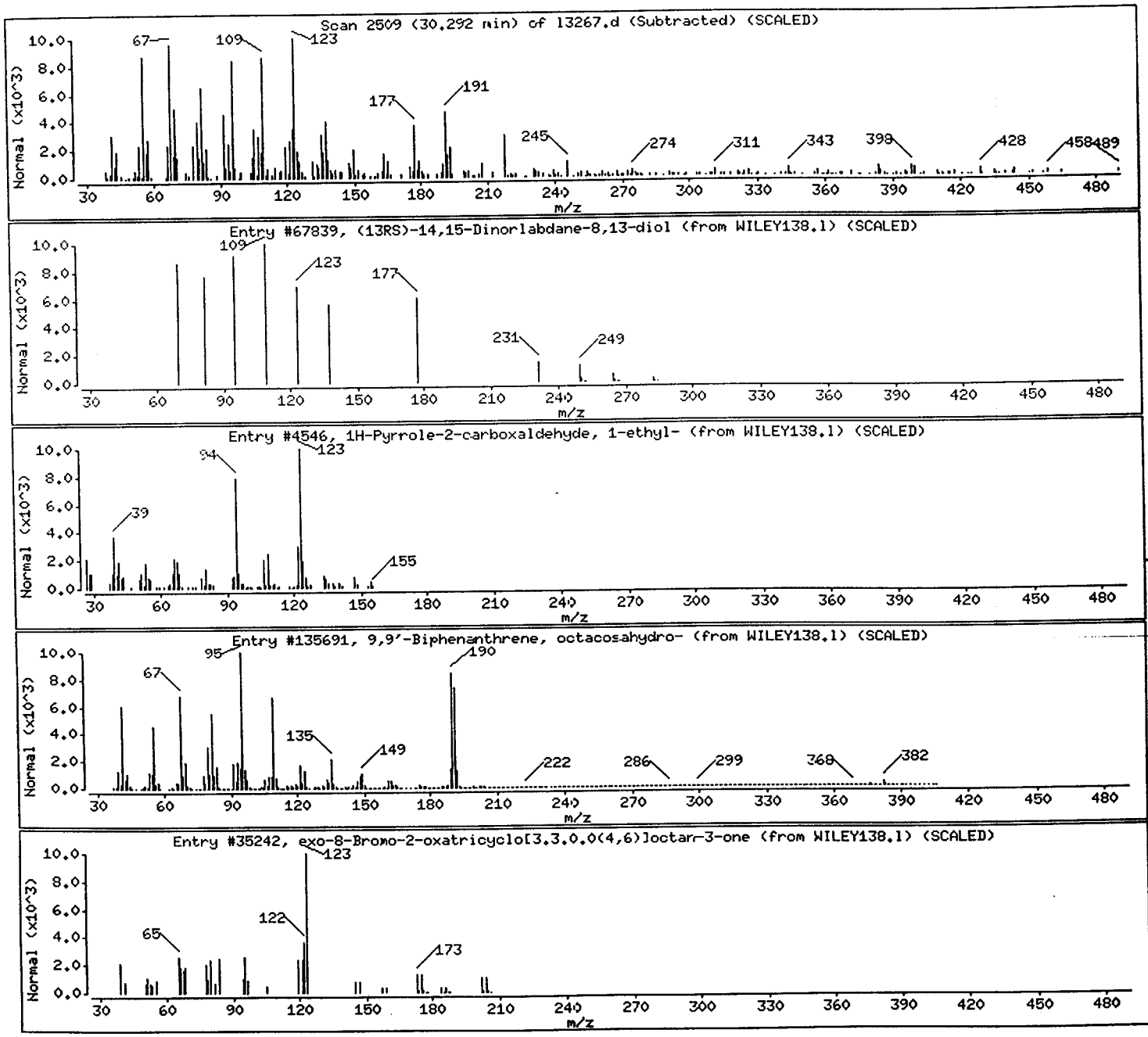
Sample Info: 237817;30;5;5;22.5

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
(13RS)-14,15-Dinorlabdane-8,13-diol	54780-64-2	WILEY138.l	67839	55	C18H34O2	282
1H-Pyrrole-2-carboxaldehyde, 1-ethyl-	2167-14-8	WILEY138.l	4546	38	C7H9NO	123
9,9'-Biphenanthrene, octacosahydro-	55334-18-4	WILEY138.l	135691	27	C28H46	382
exo-8-Bromo-2-oxatricyclo[3.3.0.0(4,6)]o	0-00-0	WILEY138.l	35242	22	C7H7BrO2	202



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13267.d

Date : 31-OCT-2000 07:50

Client ID: EB-6_Outfall

Instrument: BNAMS7.i

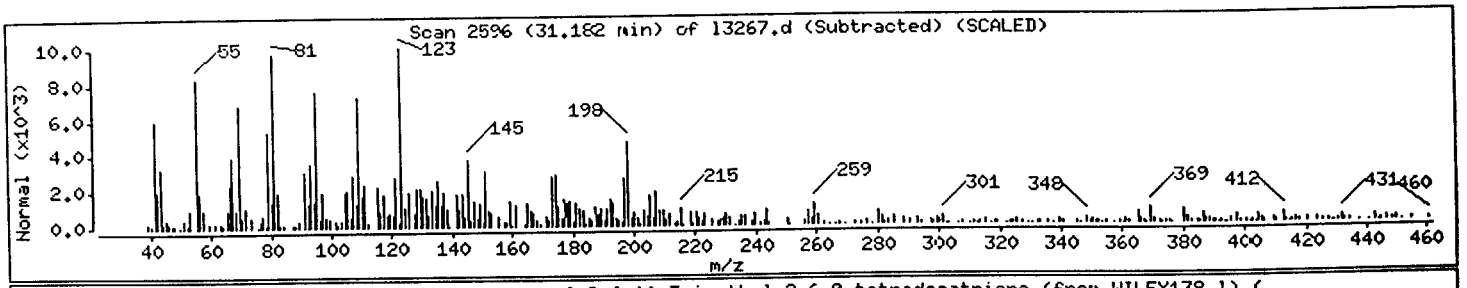
Sample Info: 237817;30;5;5;22.5

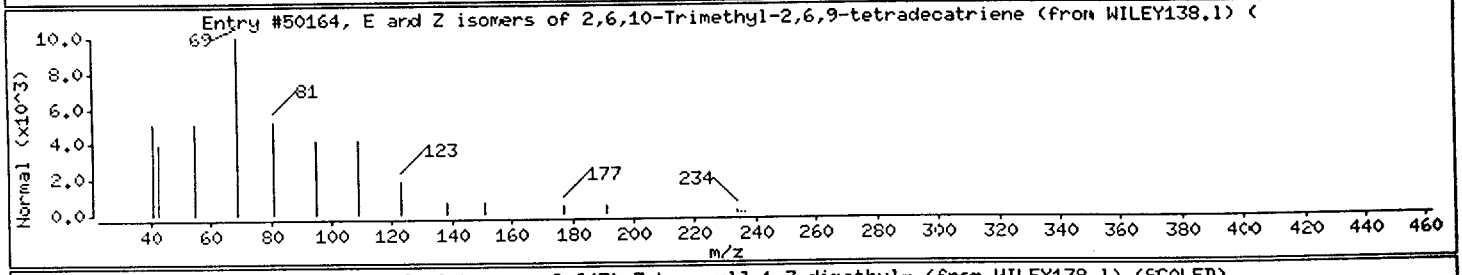
Operator: BNAMS 4

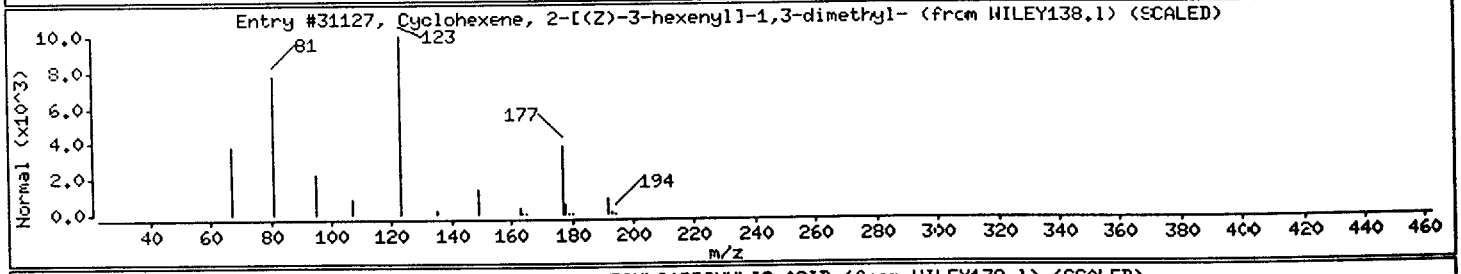
Column phase: DB-5

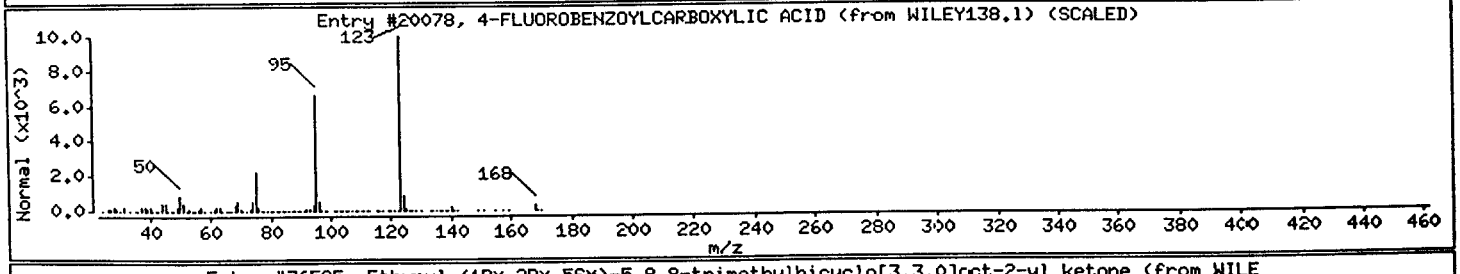
Column diameter: 0.25

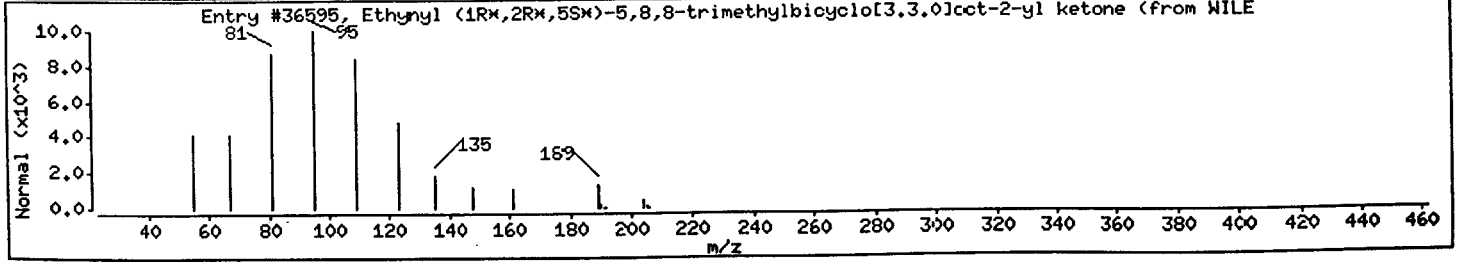
Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
E and Z isomers of 2,6,10-Trimethyl-2,6,	68965-67-3	WILEY138.l	50164	43	C17H30	234
Cyclohexene, 2-[(Z)-3-hexenyl]-1,3-dimet	83538-15-2	WILEY138.l	31127	38	C14H24	192
4-FLUOROBENZOYLCARBOXYLIC ACID	0-00-0	WILEY138.l	20078	25	C8H5FO3	168
Ethynyl (1R*,2R*,5S*)-5,8,8-trimethylbic	85544-99-6	WILEY138.l	36595	25	C14H20O	204











Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13267.d

Date : 31-OCT-2000 07:50

Client ID: EB-6_Outfall

Instrument: BNAMS7.i

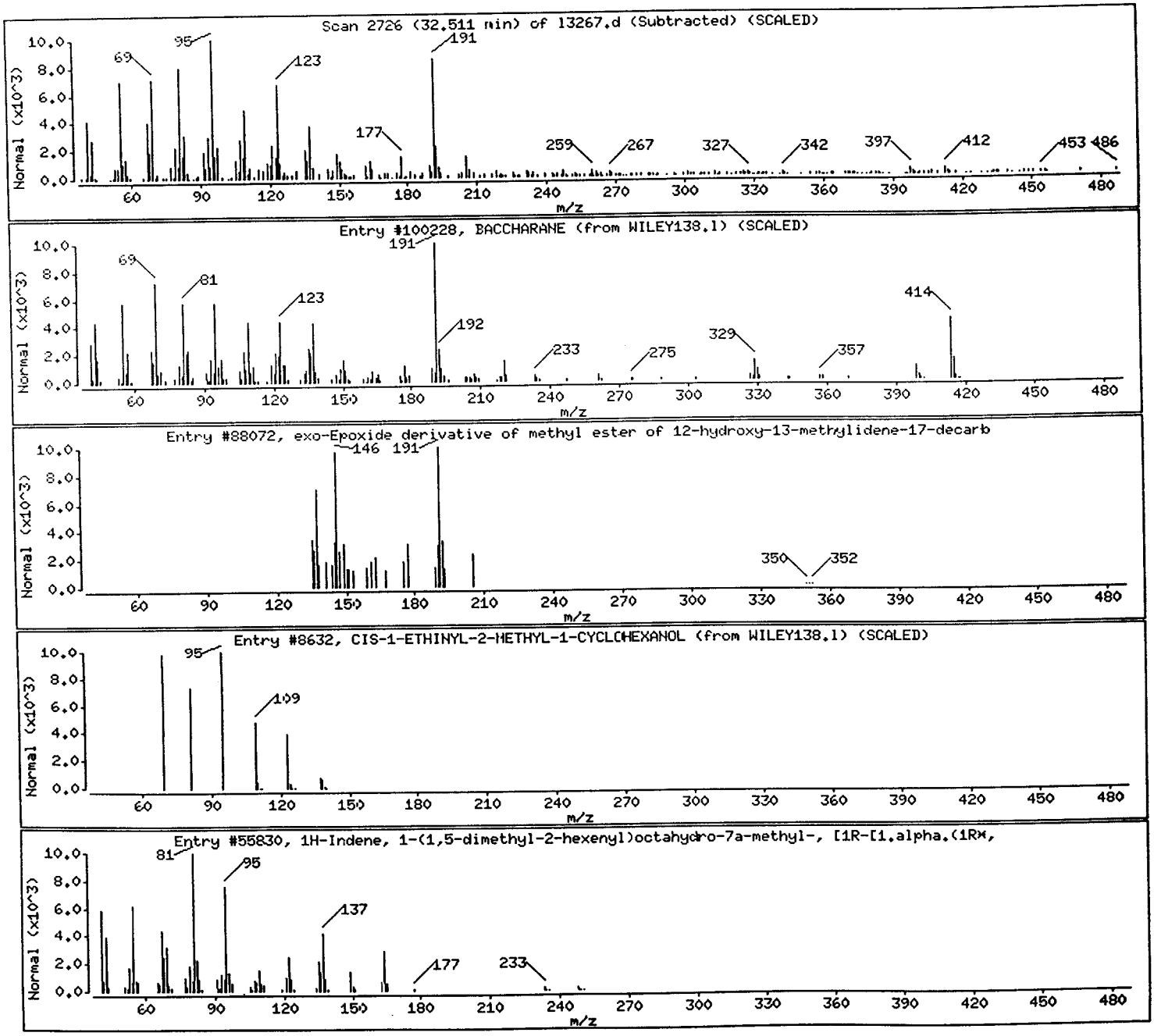
Sample Info: 237817;30;5;5;22.5

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
BACCHARANE	36441-74-4	WILEY138.l	100228	53	C30H54	414
exo-Epoxide derivative of methyl ester o	82528-35-6	WILEY138.l	88072	52	C21H34O4	350
CIS-1-ETHINYL-2-METHYL-1-CYCLOHEXANOL	36144-41-9	WILEY138.l	8632	46	C9H14O	138
1H-Indene, 1-(1,5-dimethyl-2-hexenyl)oct	54411-95-9	WILEY138.l	55830	42	C18H32	248



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13267.d

Date : 31-OCT-2000 07:50

Client ID: EB-6_Outfall

Instrument: BNAMS7.i

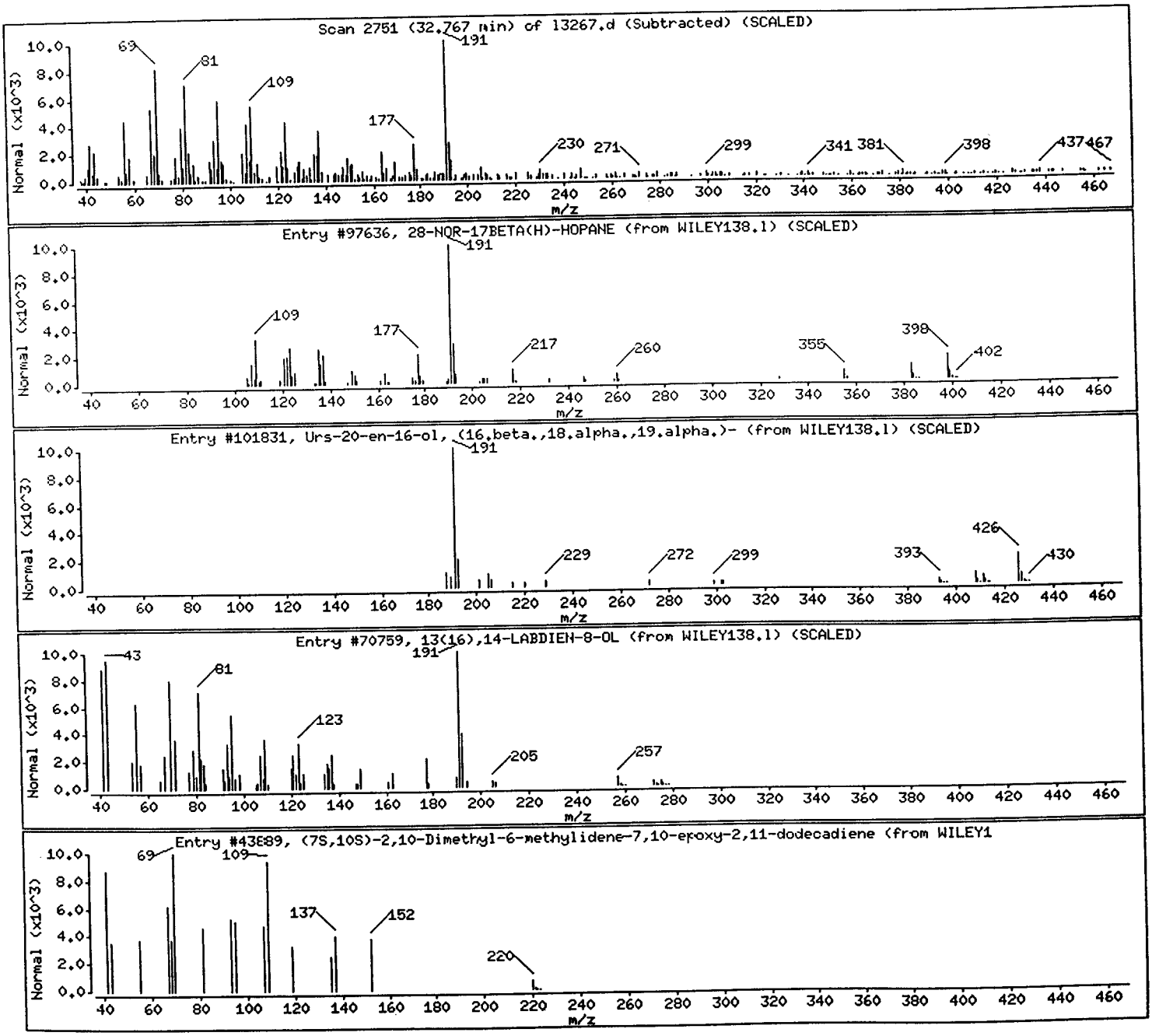
Sample Info: 237817;30;5;5;22.5

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
28-NOR-17BETA(H)-HOPANE	36728-72-0	WILEY138.l	97636	91	C29H50	398
Urs-20-en-16-ol, (16.beta.,18.alpha.,19.	66394-74-9	WILEY138.l	101831	83	C30H500	426
13(16),14-LABDIEN-8-OL	0-00-0	WILEY138.l	70759	72	C20H340	290
(7S,10S)-2,10-Dimethyl-6-methylidene-7,1	72505-39-6	WILEY138.l	43889	38	C15H240	220



Client ID: **TPE-1**
Site: Rexam DSI

Lab Sample No: **237818**
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13256.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 7

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
N-Nitrosodimethylamine	ND	360
bis(2-Chloroethyl)ether	ND	36
1,3-Dichlorobenzene	ND	360
1,4-Dichlorobenzene	ND	360
1,2-Dichlorobenzene	ND	360
bis(2-chloroisopropyl)ether	ND	360
N-Nitroso-di-n-propylamine	ND	36
Hexachloroethane	ND	36
Nitrobenzene	ND	36
Isophorone	ND	360
bis(2-Chloroethoxy)methane	ND	360
1,2,4-Trichlorobenzene	ND	36
Naphthalene	53 J	360
Hexachlorobutadiene	ND	72
Hexachlorocyclopentadiene	ND	360
2-Chloronaphthalene	ND	360
Dimethylphthalate	ND	360
Acenaphthylene	69 J	360
2,6-Dinitrotoluene	ND	72
Acenaphthene	38 J	360
2,4-Dinitrotoluene	ND	72
Diethylphthalate	ND	360
4-Chlorophenyl-phenylether	ND	360
Fluorene	72 J	360
N-Nitrosodiphenylamine	ND	360
4-Bromophenyl-phenylether	ND	360
Hexachlorobenzene	ND	36
Phenanthrene	800	360
Anthracene	100 J	360
Di-n-butylphthalate	ND	360
Fluoranthene	870	360
Pyrene	700	360
Benzidine	ND	1400
Butylbenzylphthalate	ND	360

Client ID: **TPE-1**
Site: Rexam DSI

Lab Sample No: **237818**
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13256.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 7

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
3,3'-Dichlorobenzidine	ND	720
Benzo(a)anthracene	310	36
Chrysene	350 J	360
bis(2-Ethylhexyl)phthalate	ND	360
Di-n-octylphthalate	ND	360
Benzo(b)fluoranthene	390	36
Benzo(k)fluoranthene	160	36
Benzo(a)pyrene	260	36
Indeno(1,2,3-cd)pyrene	130	36
Dibenz(a,h)anthracene	22 J	36
Benzo(g,h,i)perylene	160 J	360

Client ID: **TPE-1**
Site: Rexam DSI

Lab Sample No: **237818**
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3256.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 6.9

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	Unknown	28.19	350	
2.	Unknown	34.27	690	
3.	Unknown	34.95	1000	
4.	Unknown Sterol	35.80	380	
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION	2420

Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/l3256.d
Report Date: 31-Oct-2000 09:34

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/l3256.d
Lab Smp Id: 237818 Client Smp ID: TPE-1
Inj Date : 30-OCT-2000 21:03
Operator : BNAMS 4 Inst ID: BNAMS7.i
Smp Info : 237818;30;2;1;6.9
Misc Info : F104;PPBN+15;6924;114
Comment :
Method : /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/8270C1.m
Meth Date : 30-Oct-2000 15:17 acierno Quant Type: ISTD
Cal Date : 27-OCT-2000 12:29 Cal File: l3224.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPBNb.sub
Target Version: 3.50
Processing Host: hpd1

JP

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	2.00000	Volume of final extract (ml)
Ws	30.00000	Weight of sample extracted (g)
M	6.90000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 79 1,4-Dichlorobenzene-d4	152	13.182	13.186	(1.000)	335573	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	14.133	14.147	(0.920)	631796	45.1332	3200
* 80 Naphthalene-d8	136	15.360	15.374	(1.000)	1353320	40.0000	
31 Naphthalene	128	15.390	15.405	(1.002)	24956	0.74071	53(a)
$ 77 2-Fluorobiphenyl (SUR)	172	17.149	17.164	(0.937)	1054732	49.0501	3500
39 Acenaphthylene	152	18.059	18.074	(0.987)	32907	0.96936	69(a)
* 82 Acenaphthene-d10	164	18.294	18.309	(1.000)	790937	40.0000	
42 Acenaphthene	153	18.345	18.370	(1.003)	11423	0.53651	38(a)
47 Fluorene	166	19.204	19.229	(1.050)	23815	0.99984	72(a)
* 83 Phenanthrene-d10	188	20.779	20.794	(1.000)	1393772	40.0000	
52 Phenanthrene	178	20.809	20.834	(1.001)	379820	11.1336	800
53 Anthracene	178	20.891	20.926	(1.005)	48999	1.42332	100(a)
56 Fluoranthene	202	22.793	22.818	(1.097)	442427	12.1666	870

Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/l3256.d
Report Date: 31-Oct-2000 09:34

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
	57 Pyrene	202	23.171	23.196	(0.918)	366627	9.83669	700
$	78 Terphenyl-d14 (SUR)	244	23.407	23.411	(0.927)	1480866	51.7829	3700
	61 Benzo(a)anthracene	228	25.216	25.252	(0.999)	161118	4.39414	310
*	81 Chrysene-d12	240	25.247	25.282	(1.000)	1407826	40.0000	
	62 Chrysene	228	25.288	25.333	(1.002)	166986	4.90549	350(a)
	65 Benzo(b)fluoranthene	252	27.783	27.839	(0.957)	171371	5.39919	390
	66 Benzo(k)fluoranthene	252	27.855	27.931	(0.959)	83972	2.21910	160(M)
	67 Benzo(a)pyrene	252	28.805	28.882	(0.992)	112503	3.57972	260
*	84 Perylene-d12	264	29.030	29.066	(1.000)	1219410	40.0000	
	68 Indeno(1,2,3-cd)pyrene	276	33.458	33.595	(1.153)	55521	1.83375	130
	69 Dibenz(a,h)anthracene	278	33.540	33.749	(1.155)	9419	0.31458	22(aM)
	70 Benzo(g,h,i)perylene	276	34.859	35.047	(1.201)	68181	2.21403	160(aM)

QC Flag Legend

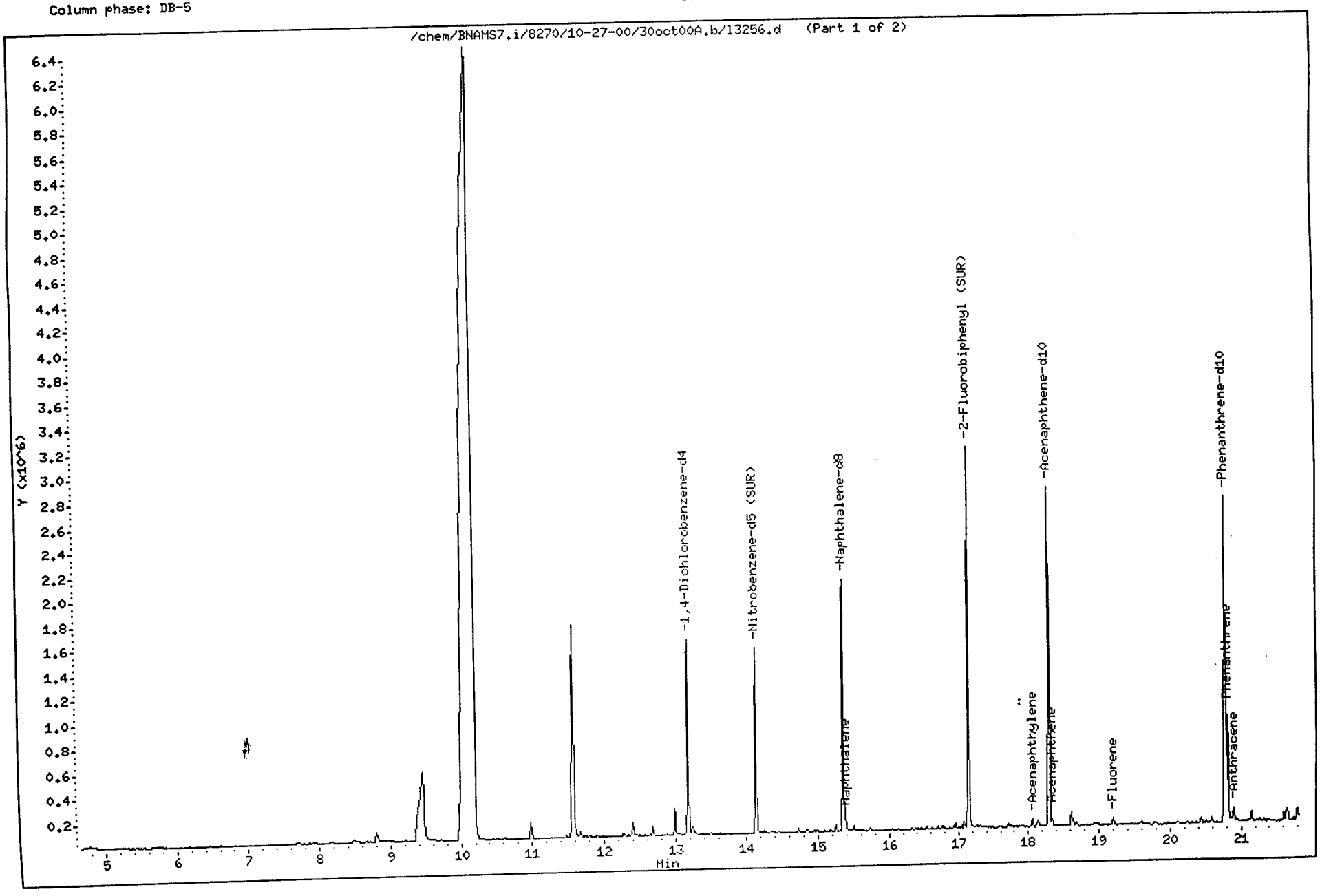
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13256.d
Date : 30-OCT-2000 21:03
Client ID: TPE-1
Sample Info: 237818;30;2;1;6.9

Instrument: BNAMS7.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5



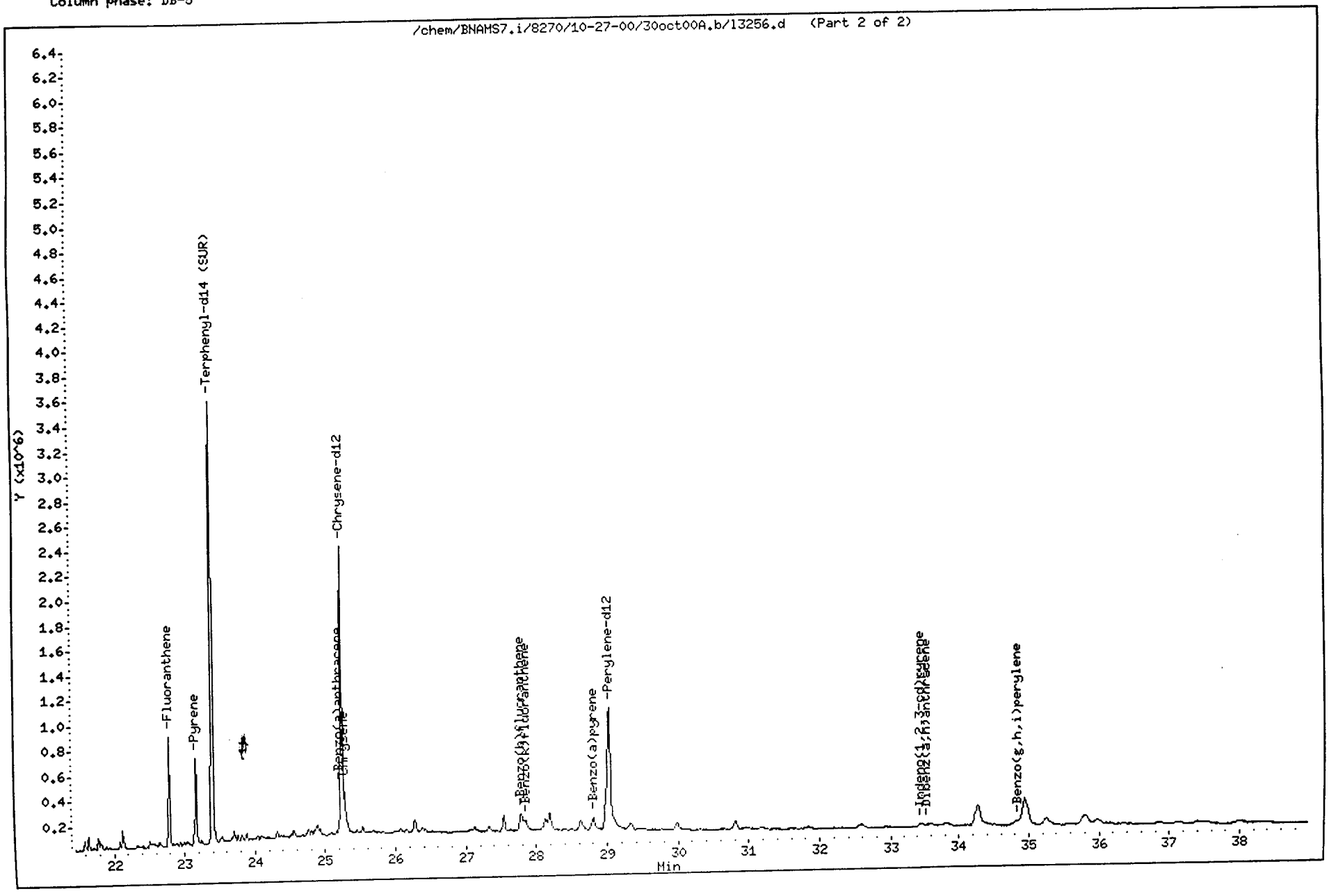
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Date : 30-OCT-2000 21:03
Client ID: TPE-1
Sample Info: 237818;30;2;1;6.9

Column phase: DB-5

Instrument: BNAMS7.i

Operator: BNAMS 4
Column diameter: 0.25

652



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13256.d

Date : 30-OCT-2000 21:03

Client ID: TPE-1

Sample Info: 237818;30;2;1;6.9

Instrument: BNAMS7.i

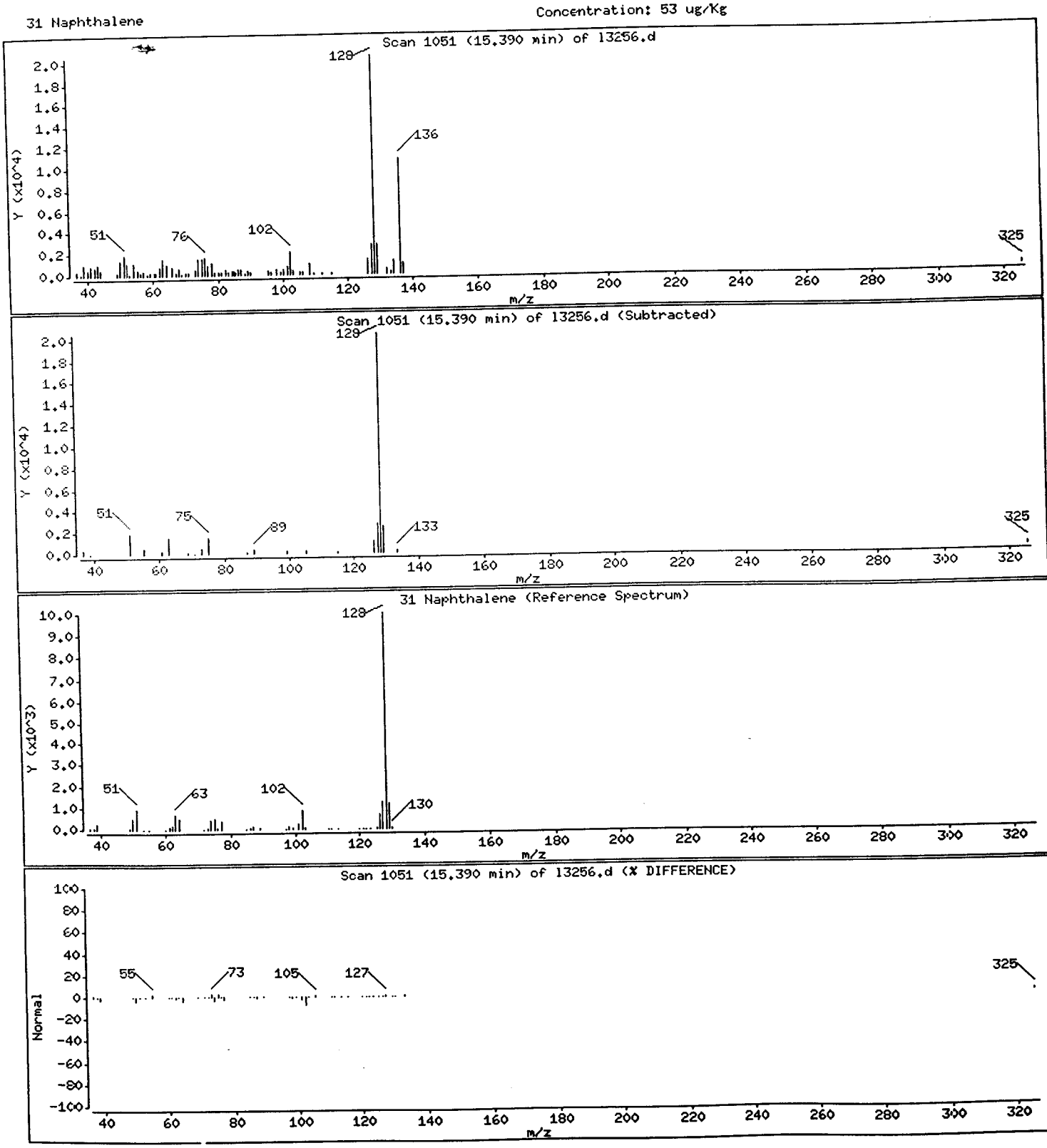
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Concentration: 53 ug/Kg

31 Naphthalene



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13256.d

Date : 30-OCT-2000 21:03

Client ID: TPE-1

Instrument: BNAMS7.i

Sample Info: 237818;30;2;1;6.9

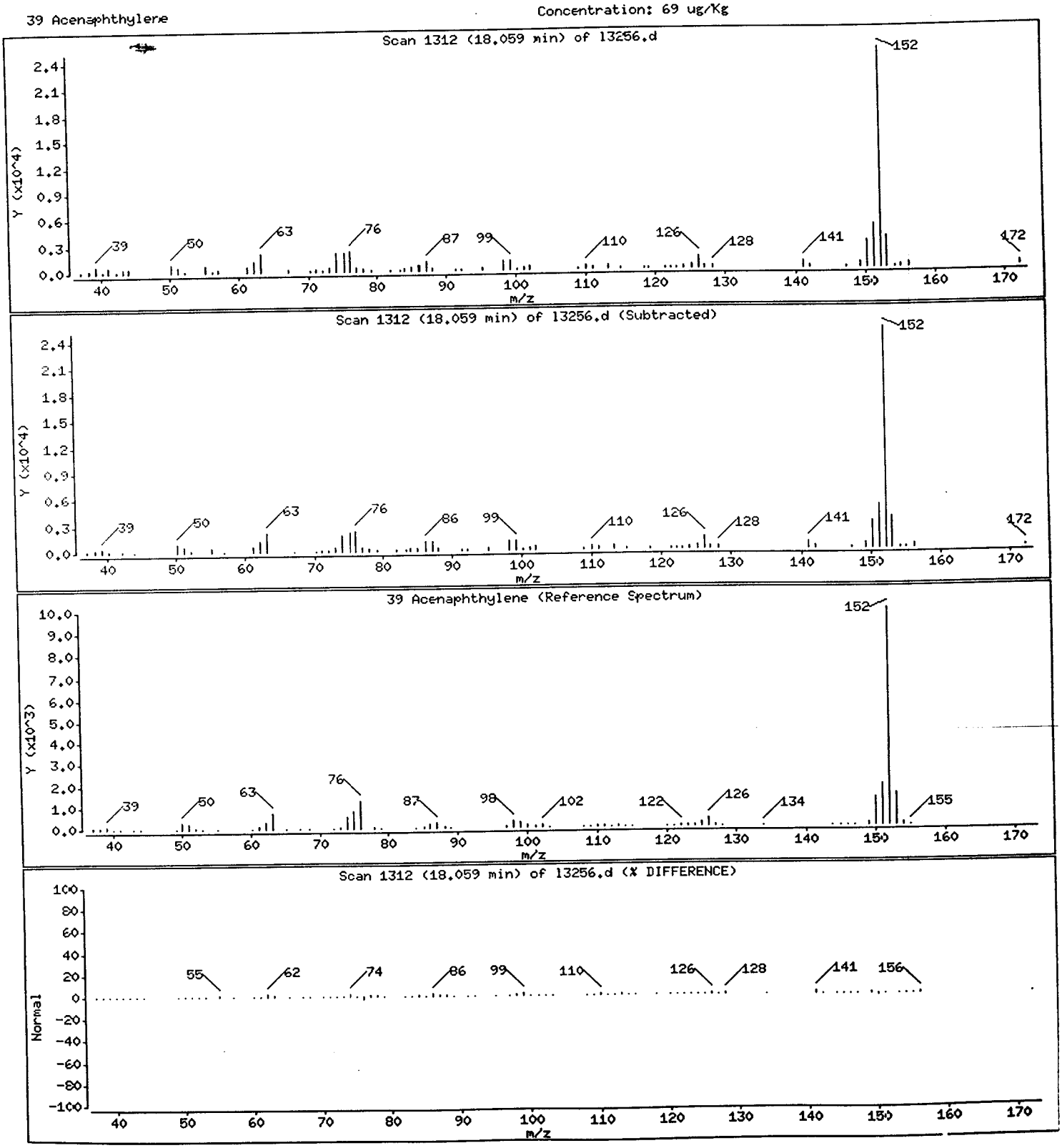
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

39 Acenaphthylene

Concentration: 69 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13256.d

Date : 30-OCT-2000 21:03

Client ID: TPE-1

Instrument: BNAMS7.i

Sample Info: 237818;30;2;1;6.9

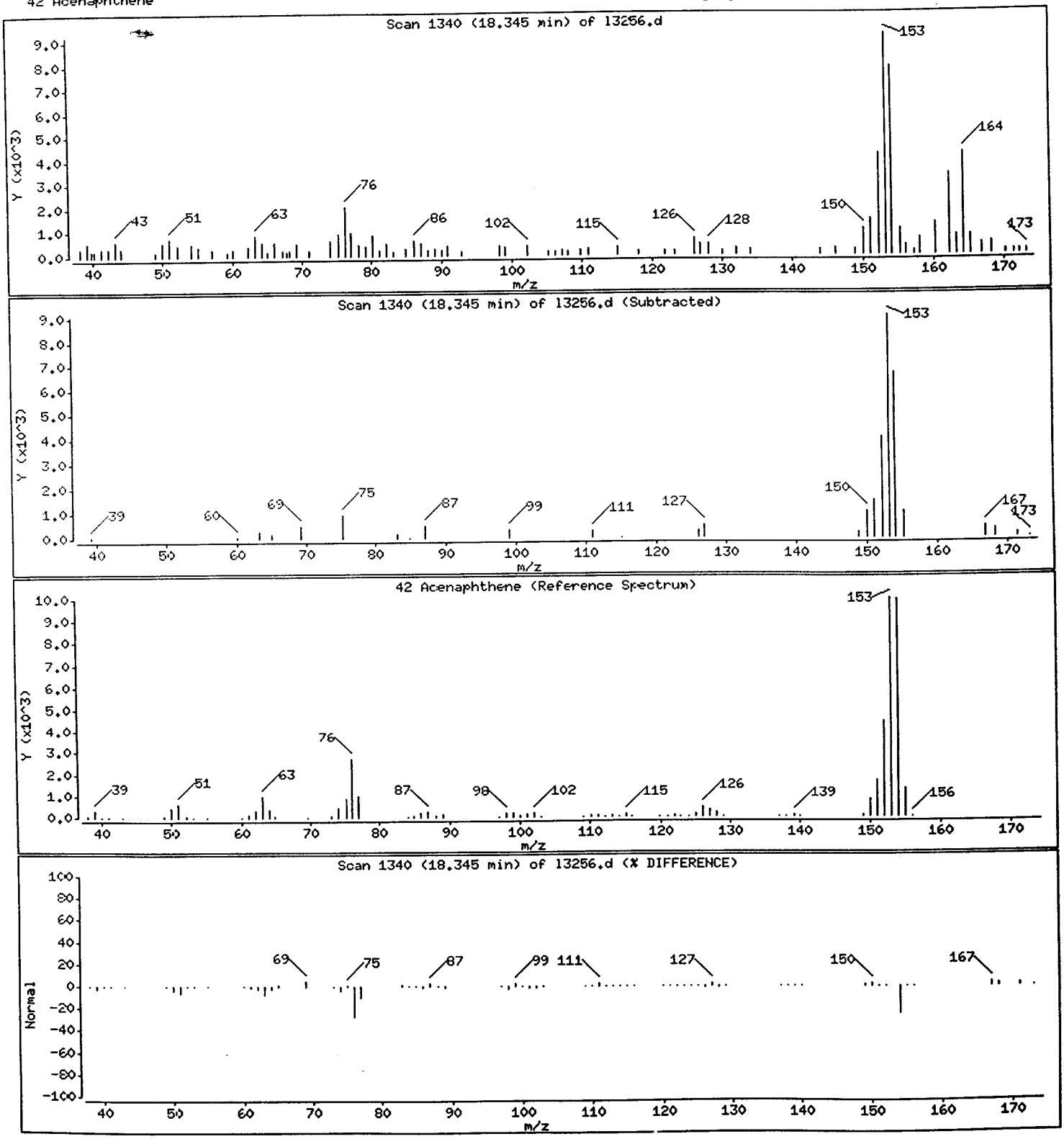
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

42 Acenaphthene

Concentration: 38 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13256.d

Date : 30-OCT-2000 21:03

Client ID: TPE-1

Instrument: BNAMS7.i

Sample Info: 237818;30;2;1;6.9

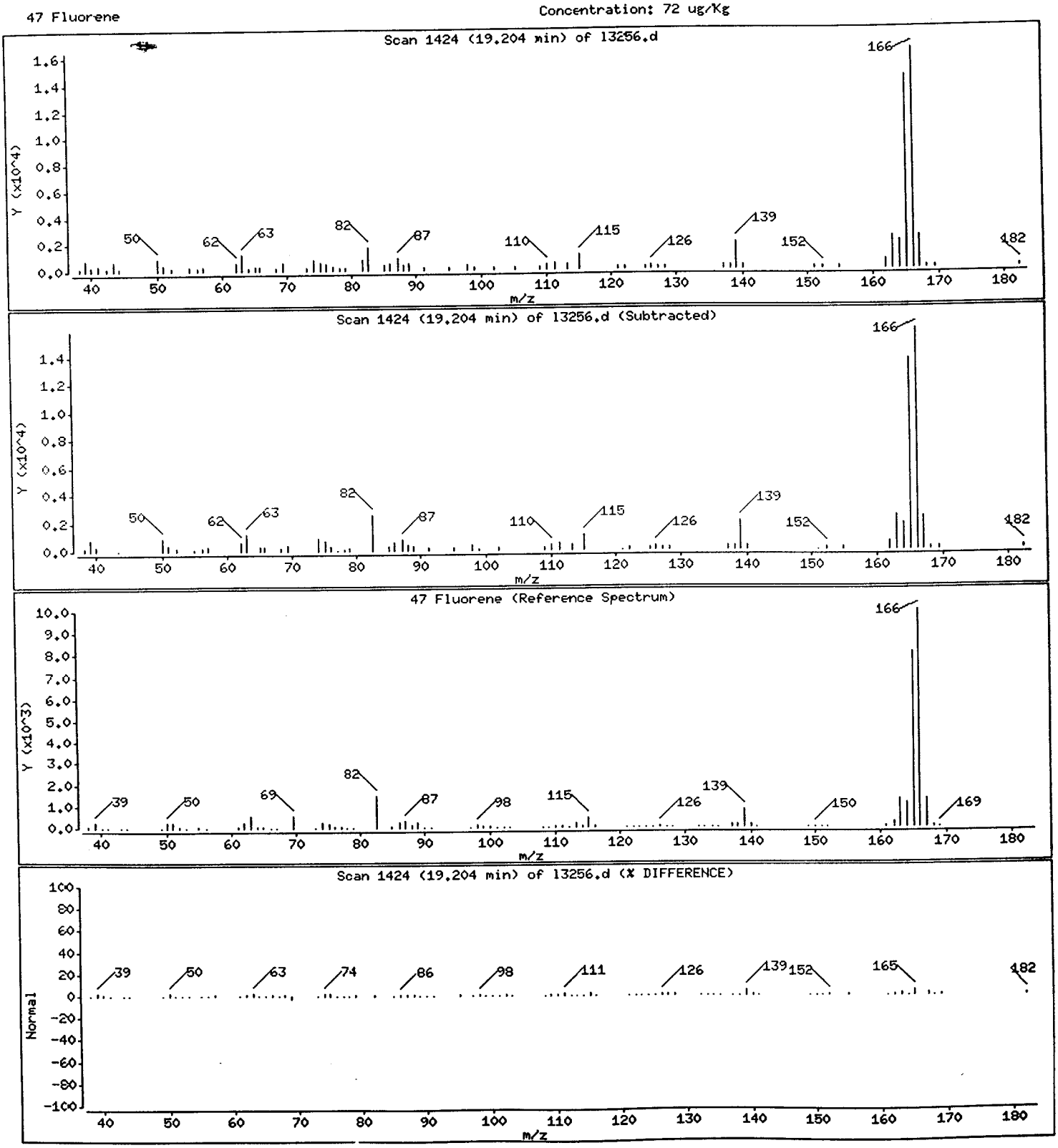
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

47 Fluorene

Concentration: 72 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13256.d

Date : 30-OCT-2000 21:03

Client ID: TPE-1

Instrument: BNAMS7.i

Sample Info: 237818;30;2;1;6.9

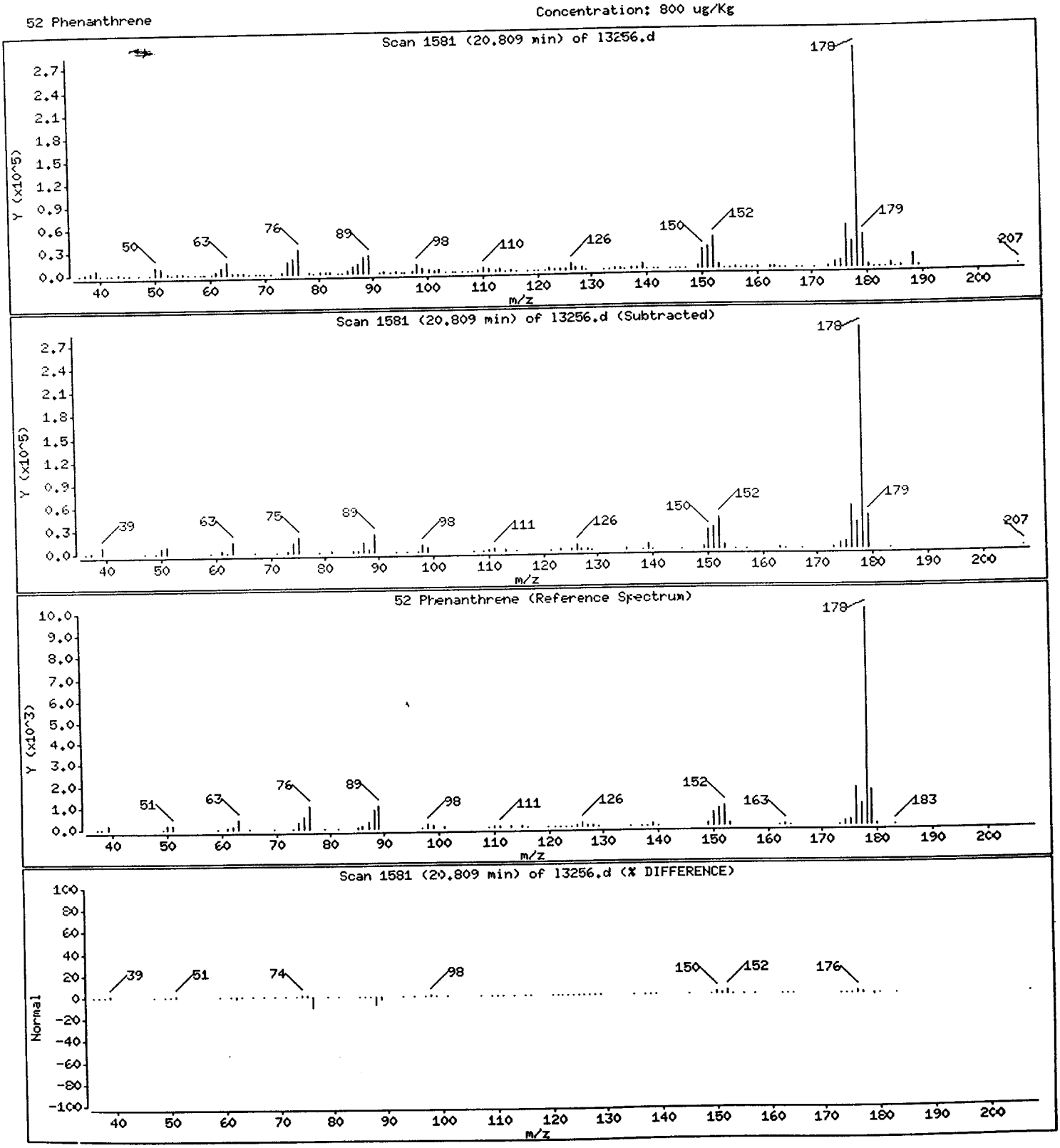
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

52 Phenanthrene

Concentration: 800 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13256.d

Date : 30-OCT-2000 21:03

Client ID: TPE-1

Instrument: BNAMS7.i

Sample Info: 237818;30;2;1;6.9

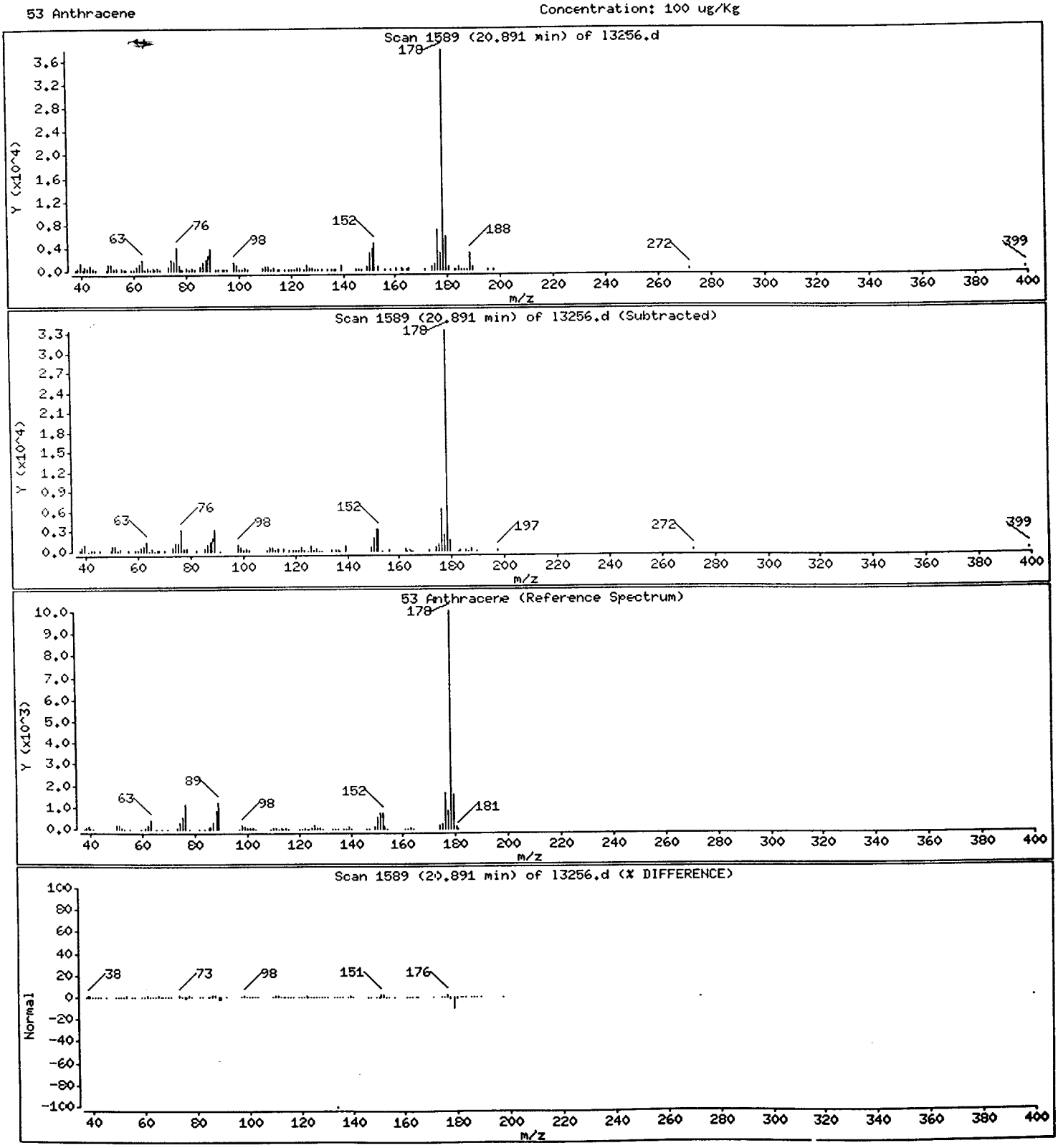
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

53 Anthracene

Concentration: 100 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13256.d

Date : 30-OCT-2000 21:03

Client ID: TPE-1

Instrument: BNAMS7.i

Sample Info: 237818;30;2;1;6.9

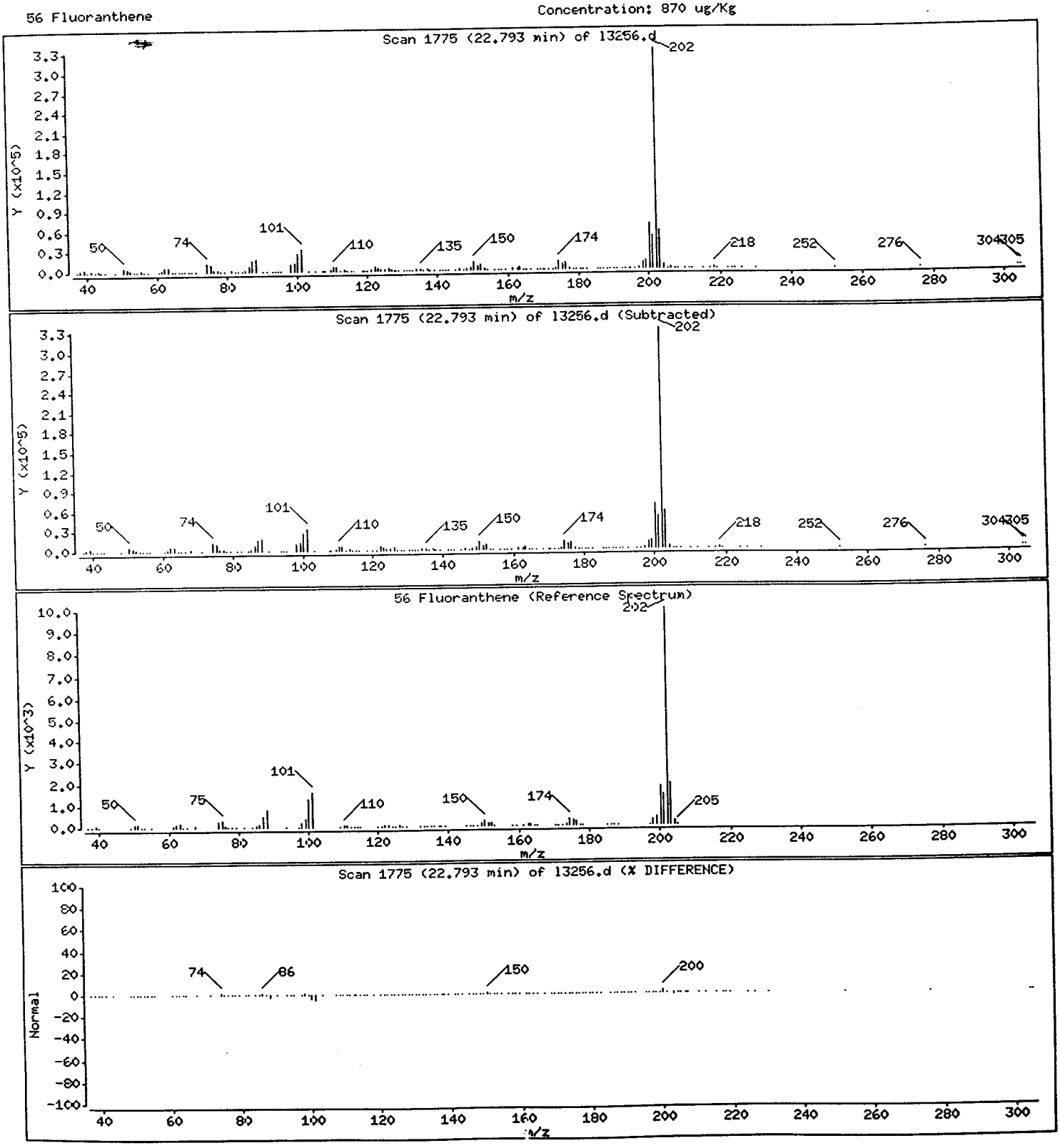
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

56 Fluoranthene

Concentration: 870 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13256.d

Date : 30-OCT-2000 21:03

Client ID: TPE-1

Instrument: BNAMS7.i

Sample Info: 237818;30;2;1;6.9

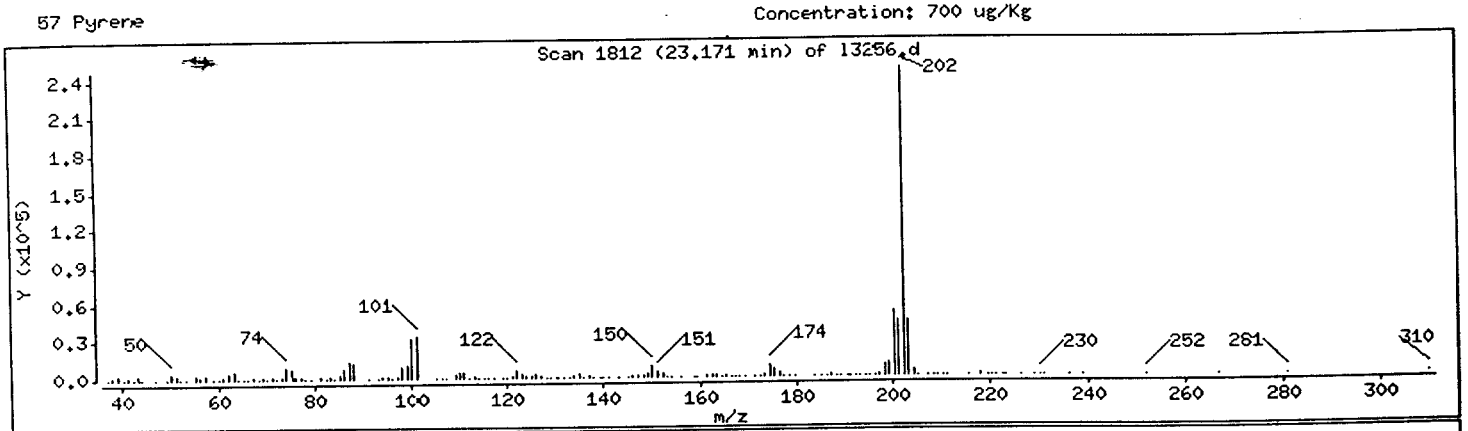
Operator: BNAMS 4

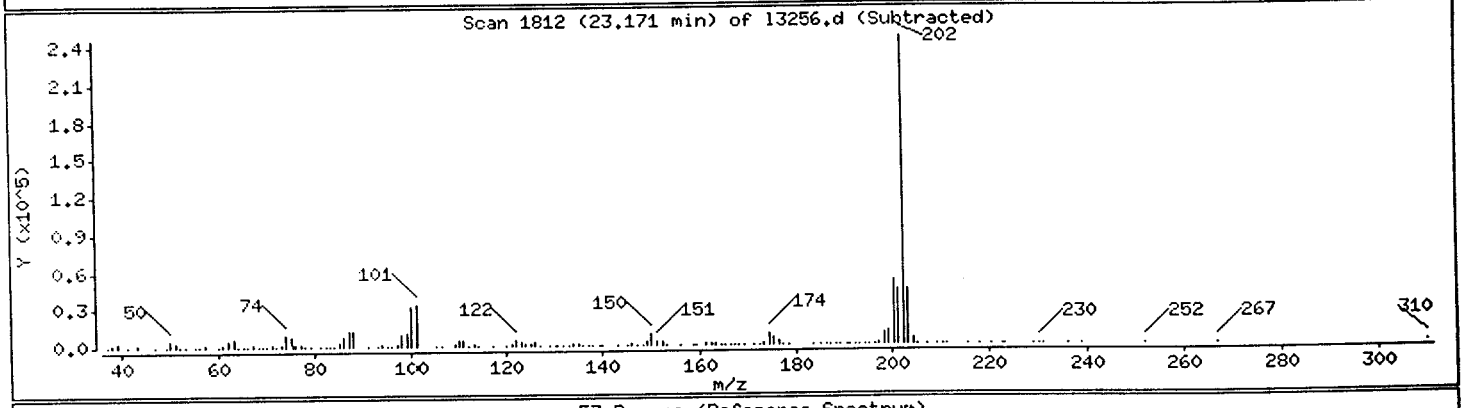
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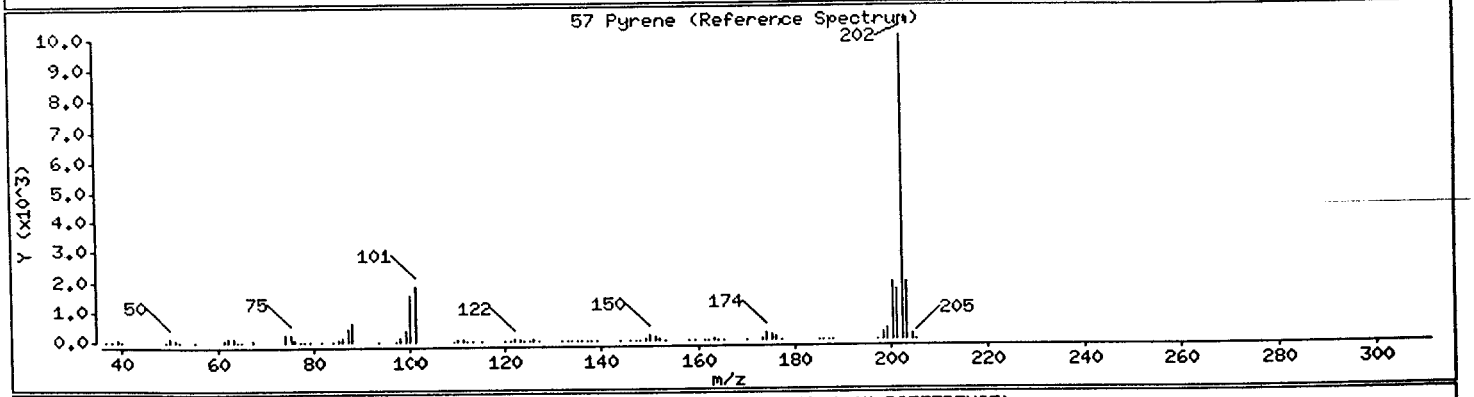
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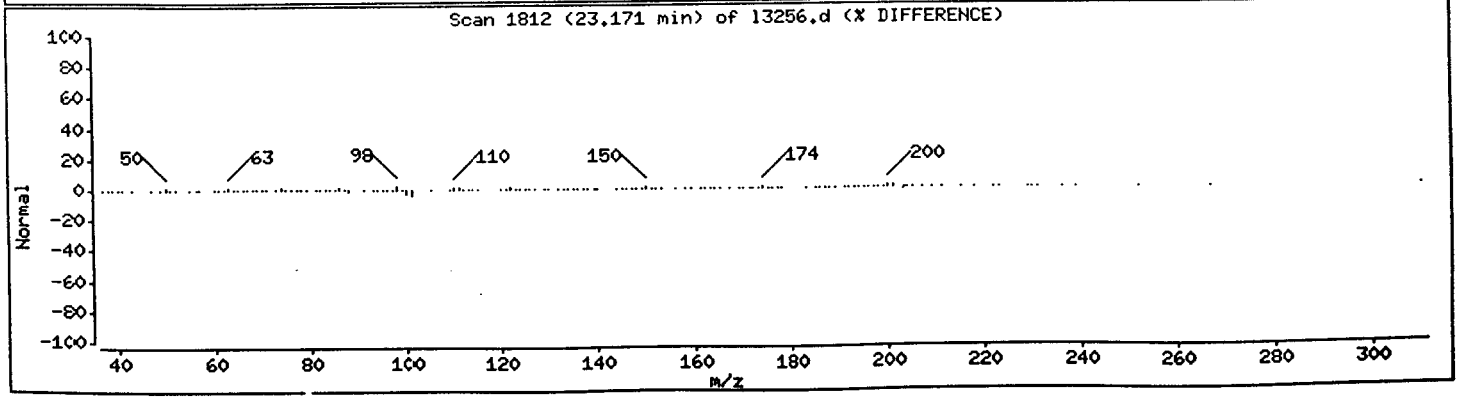
57 Pyrene

Concentration: 700 ug/Kg









Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13256.d

Date : 30-OCT-2000 21:03

Client ID: TPE-1

Instrument: BNAMS7.i

Sample Info: 237818;30;2;1;6.9

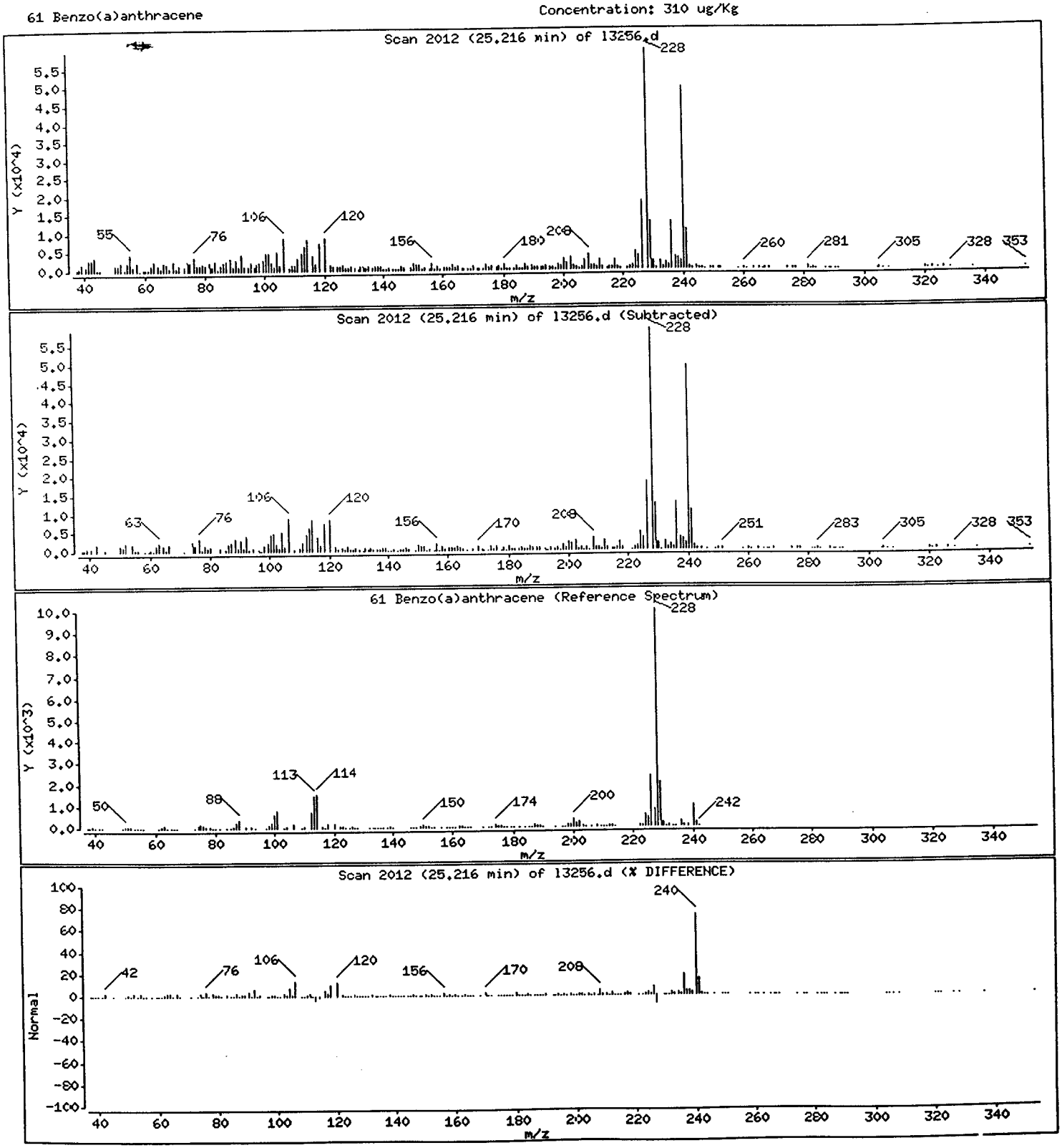
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

61 Benzo(a)anthracene

Concentration: 310 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13256.d

Date : 30-OCT-2000 21:03

Client ID: TPE-1

Instrument: BNAMS7.i

Sample Info: 237818;30;2;1;6.9

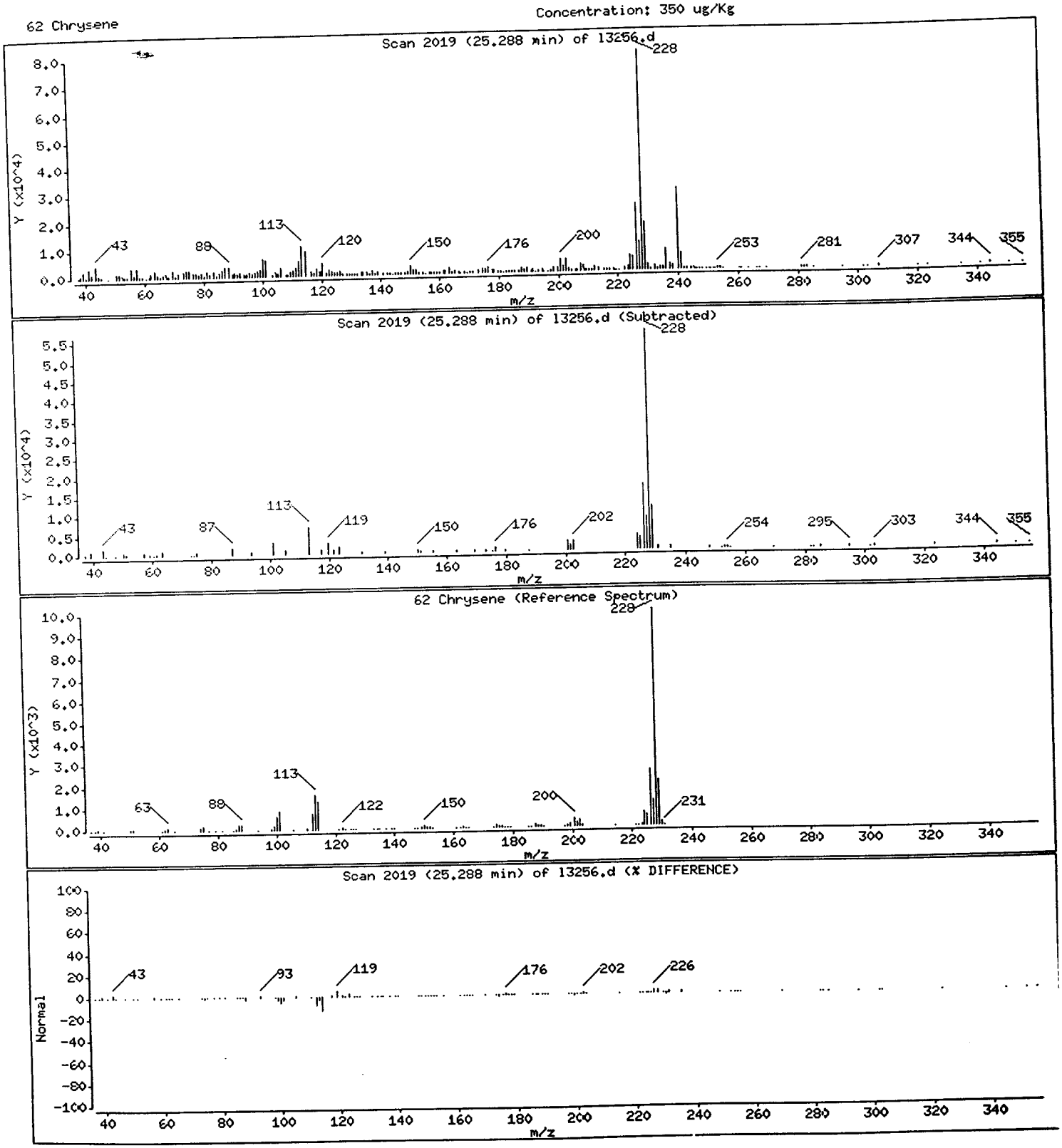
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Concentration: 350 ug/Kg

62 Chrysene



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13256.d

Date : 30-OCT-2000 21:03

Client ID: TPE-1

Instrument: BNAMS7.i

Sample Info: 237818;30;2;1;6.9

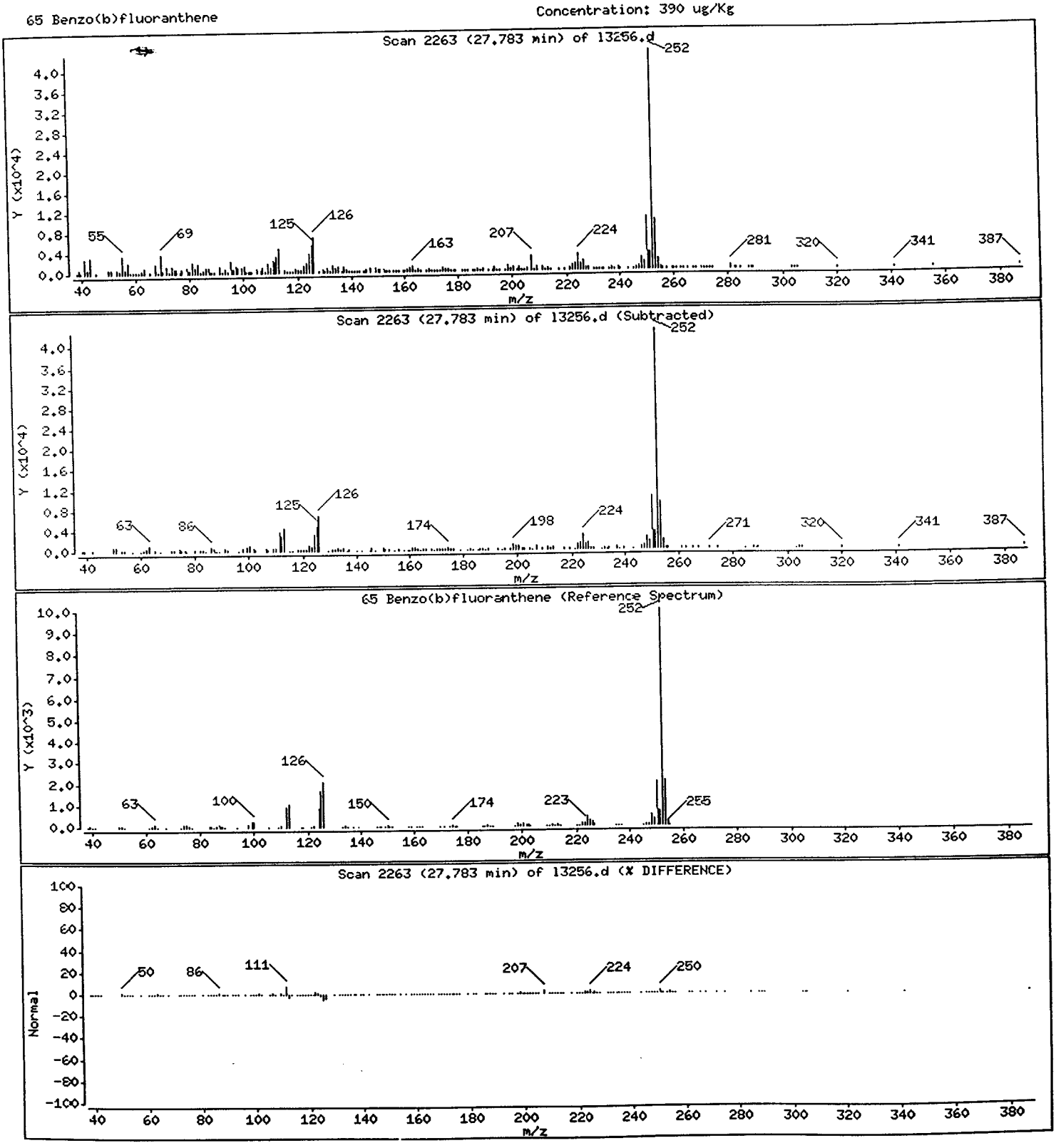
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

65 Benzo(b)fluoranthene

Concentration: 390 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13256.d

Date : 30-OCT-2000 21:03

Client ID: TPE-1

Instrument: BNAMS7.i

Sample Info: 237818;30;2;1;6.9

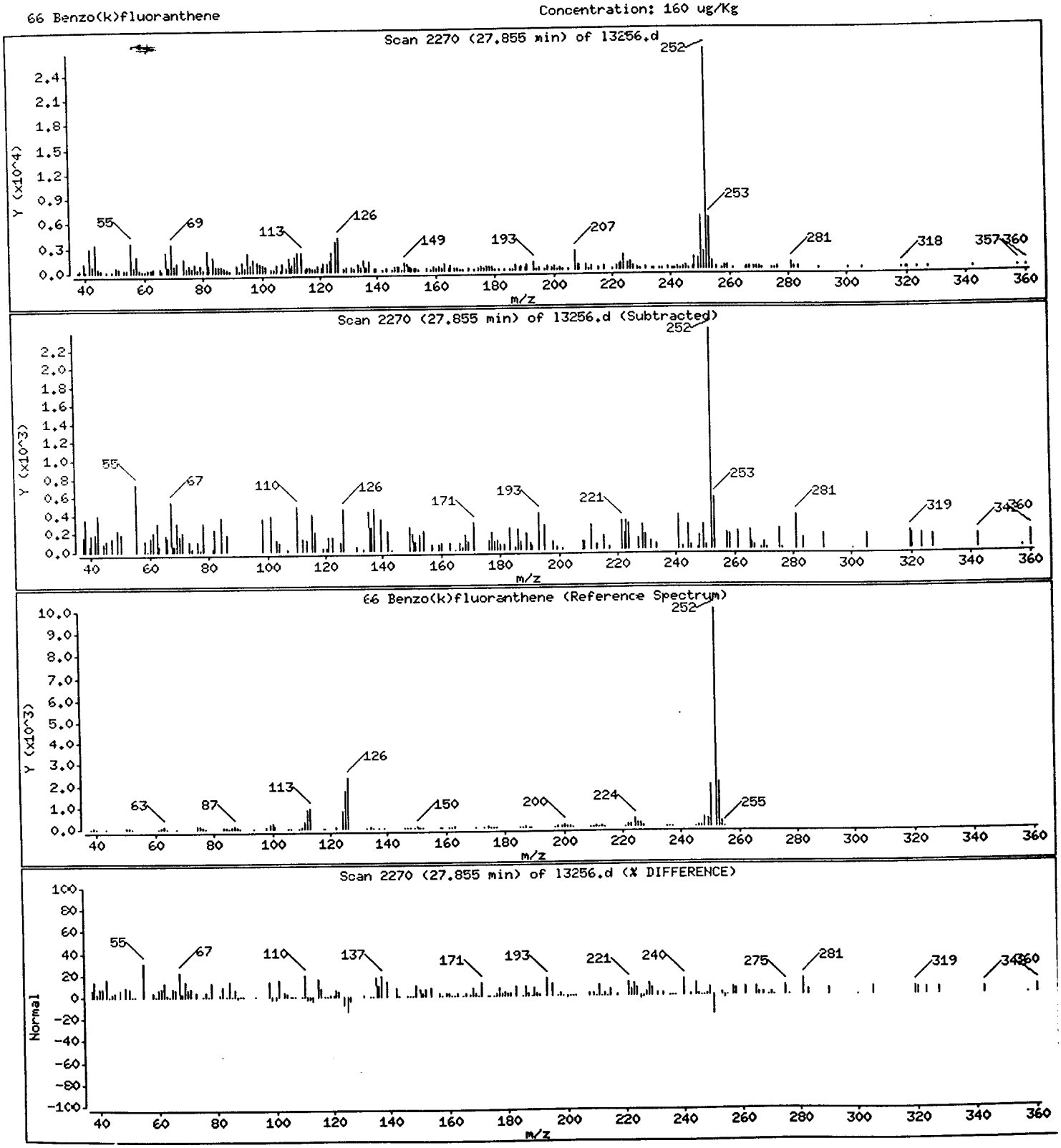
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

66 Benzo(k)fluoranthene

Concentration: 160 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13256.d

Date : 30-OCT-2000 21:03

Client ID: TPE-1

Instrument: BNAMS7.i

Sample Info: 237818;30;2;1;6.9

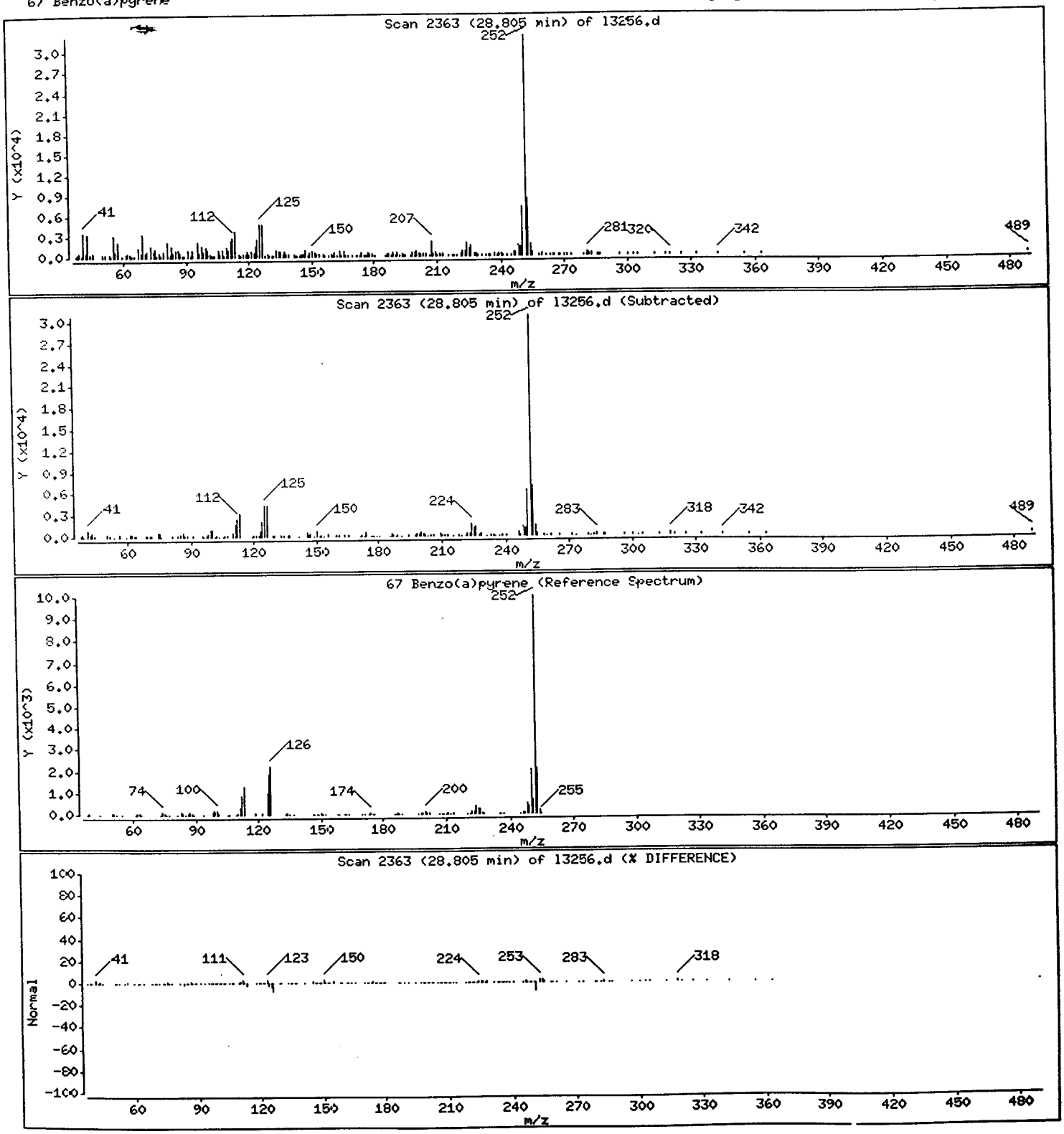
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

67 Benzo(a)pyrene

Concentration: 260 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13256.d

Date : 30-OCT-2000 21:03

Client ID: TPE-1

Instrument: BNAMS7.i

Sample Info: 237818;30;2;1;6.9

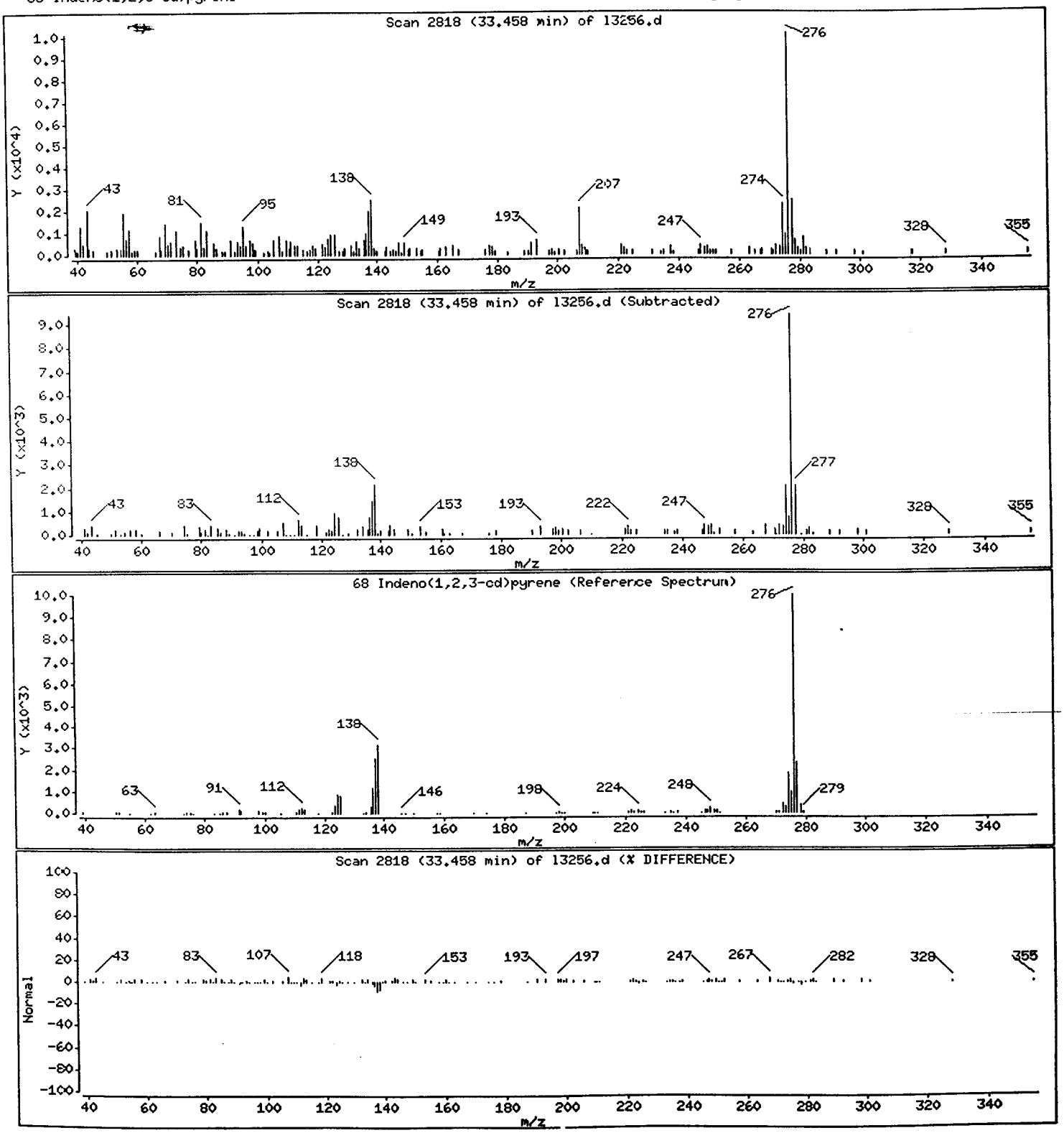
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

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

Concentration: 130 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13256.d

Date : 30-OCT-2000 21:03

Client ID: TPE-1

Instrument: BNAMS7.i

Sample Info: 237818;30;2;1;6.9

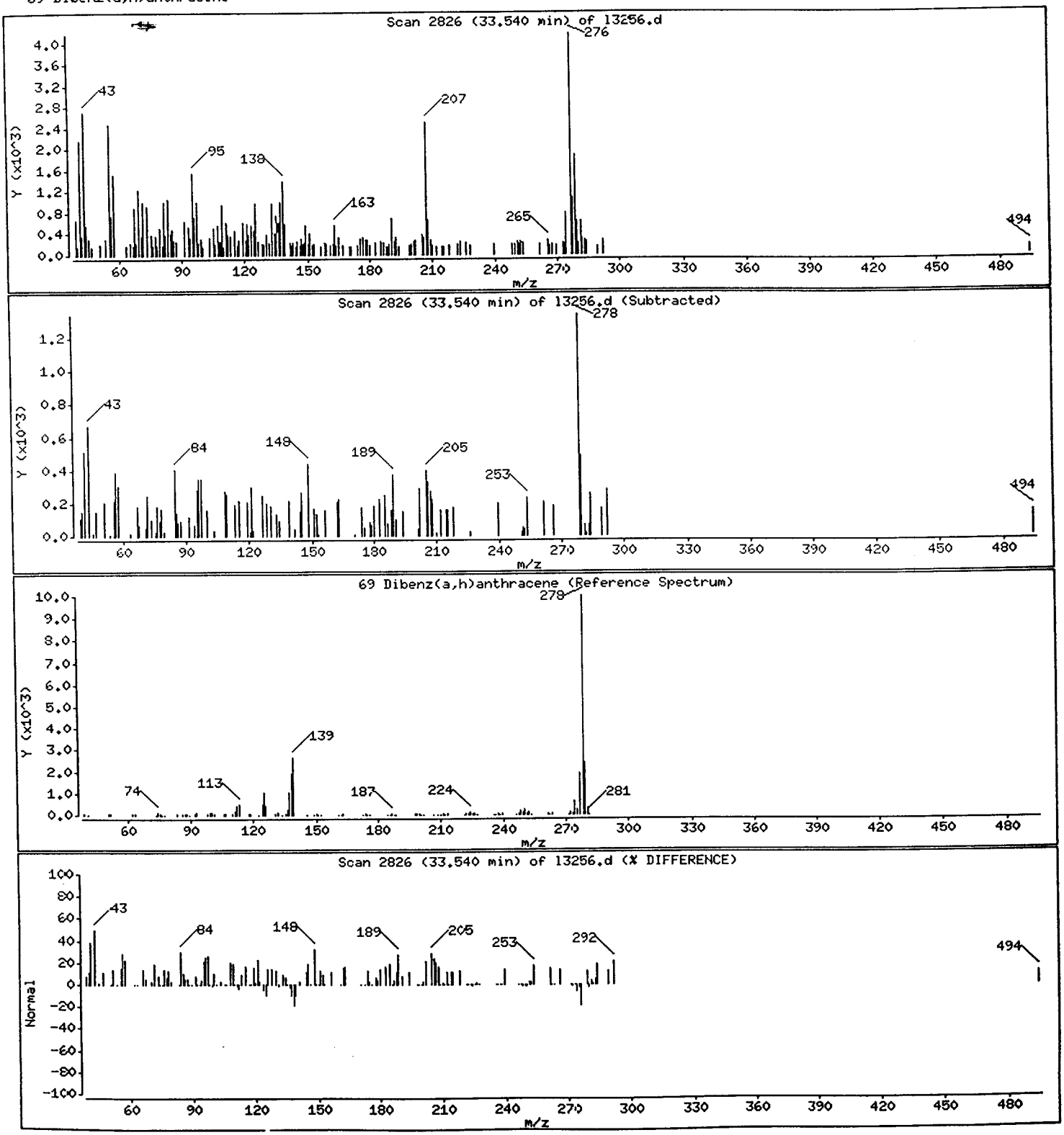
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

69 Dibenz(a,h)anthracene

Concentration: 22 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13256.d

Date : 30-OCT-2000 21:03

Client ID: TPE-1

Instrument: BNAMS7.i

Sample Info: 237818;30;2;1;6.9

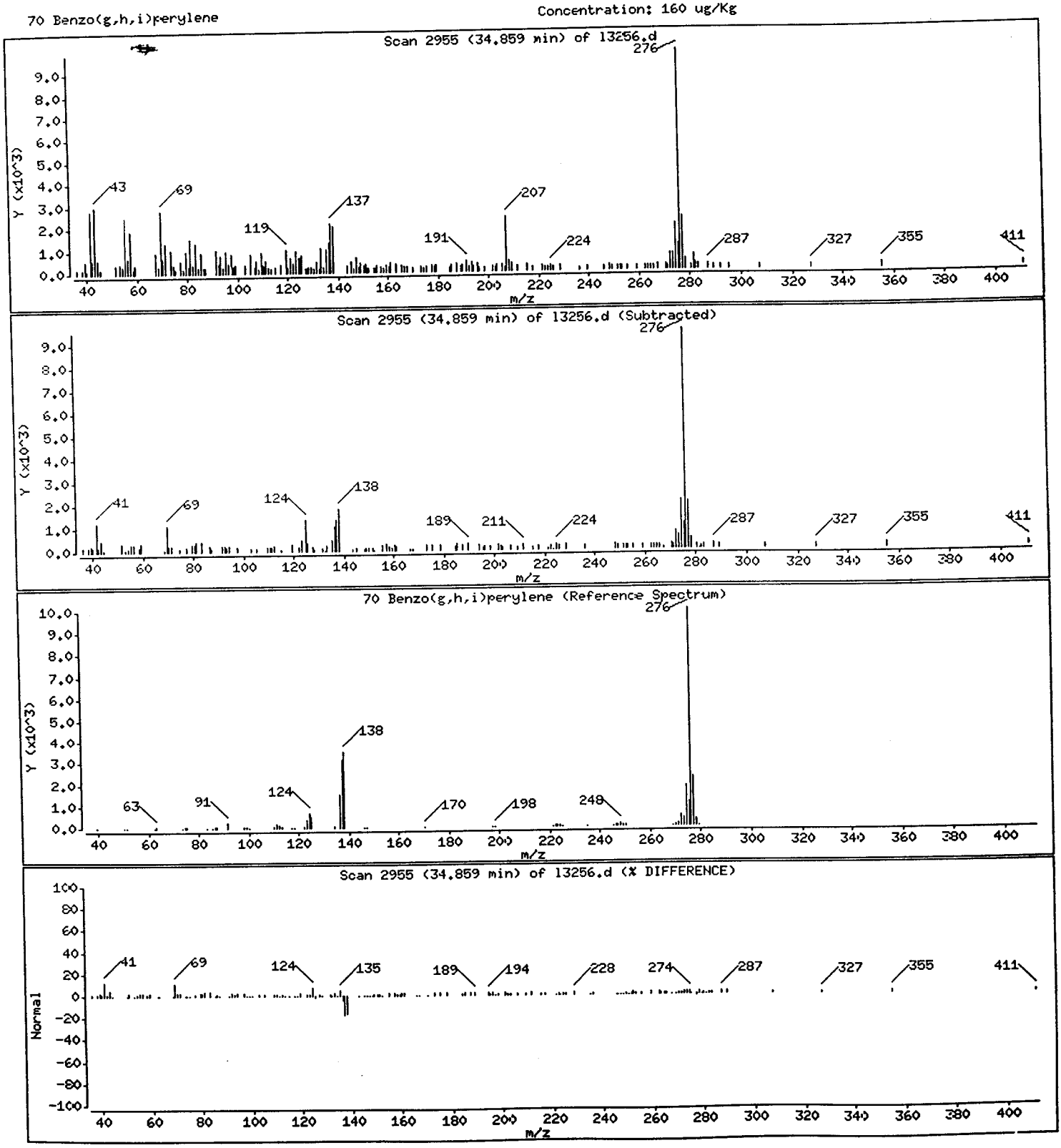
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

70 Benzo(g,h,i)perylene

Concentration: 160 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13256.d

Date : 30-OCT-2000 21:03

Client ID: TPE-1

Instrument: BNAMS7.i

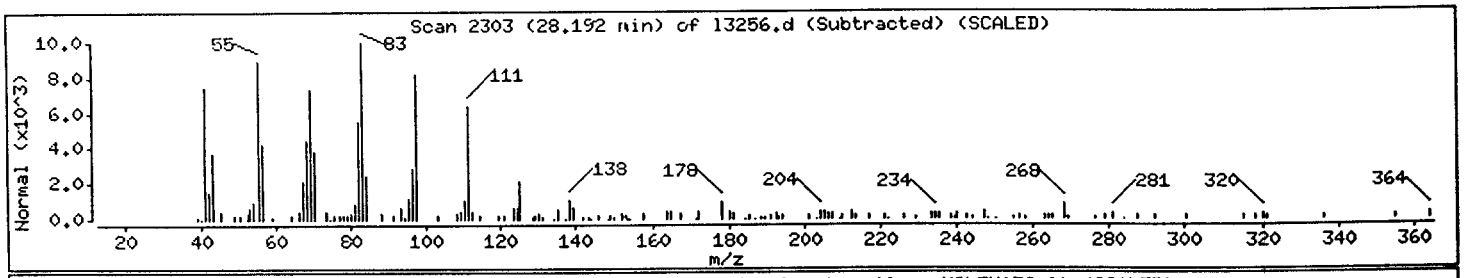
Sample Info: 237818;30;2;1;6.9

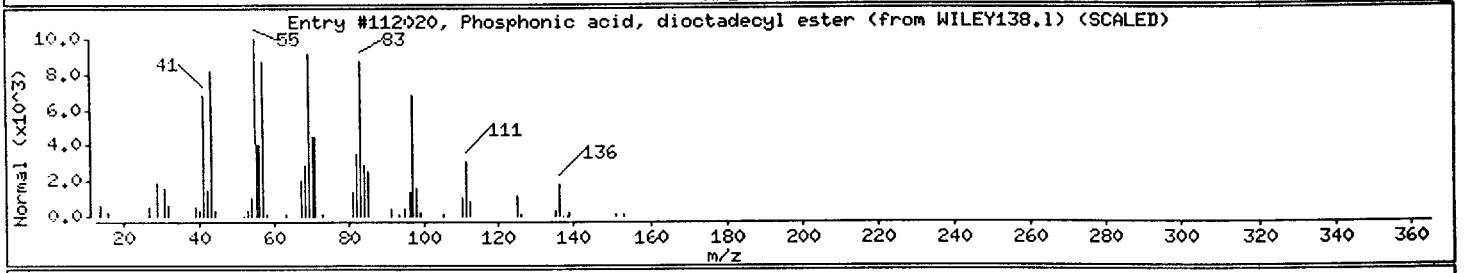
Operator: BNAMS 4

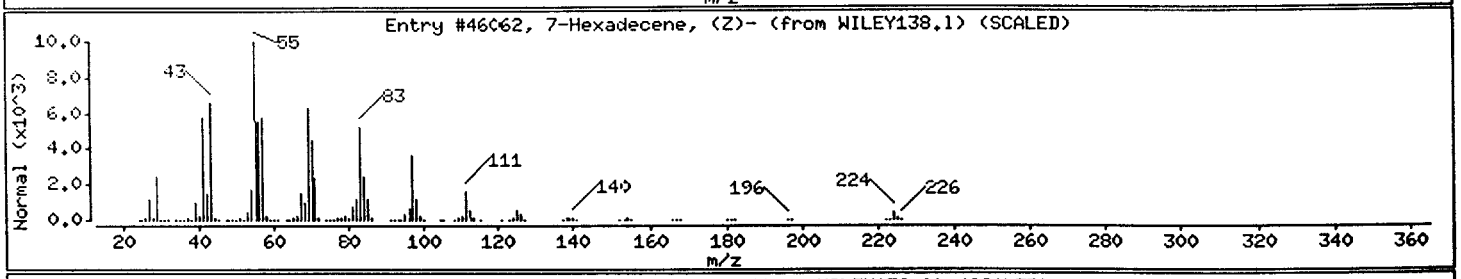
Column phase: DB-5

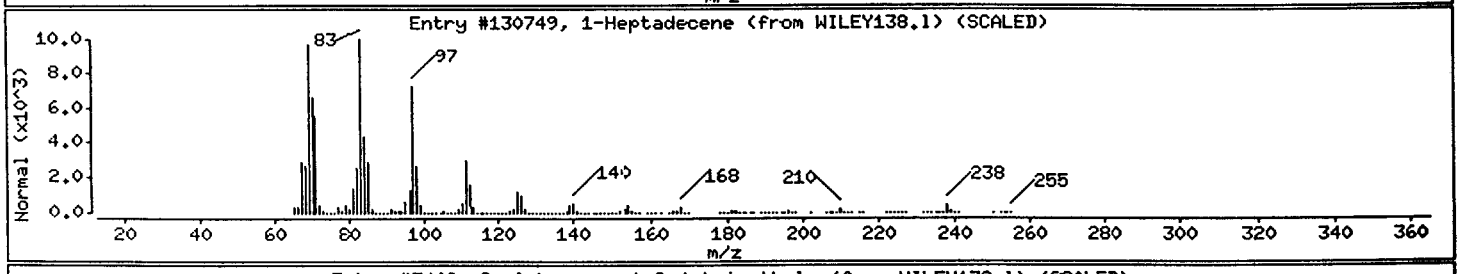
Column diameter: 0.25

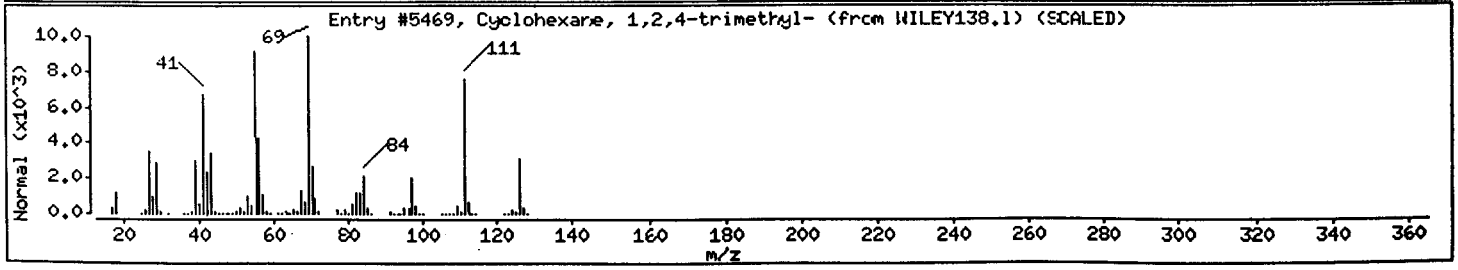
Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Phosphonic acid, dioctadecyl ester	19047-85-9	WILEY138.l	112020	64	C36H75O3P	587
7-Hexadecene, (Z)-	35507-09-6	WILEY138.l	46062	38	C16H32	224
1-Heptadecene	6765-39-5	WILEY138.l	130749	38	C17H34	238
Cyclohexane, 1,2,4-trimethyl-	2234-75-5	WILEY138.l	5469	27	C9H18	126











Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13256.d

Date : 30-OCT-2000 21:03

Client ID: TPE-1

Instrument: BNAMS7.i

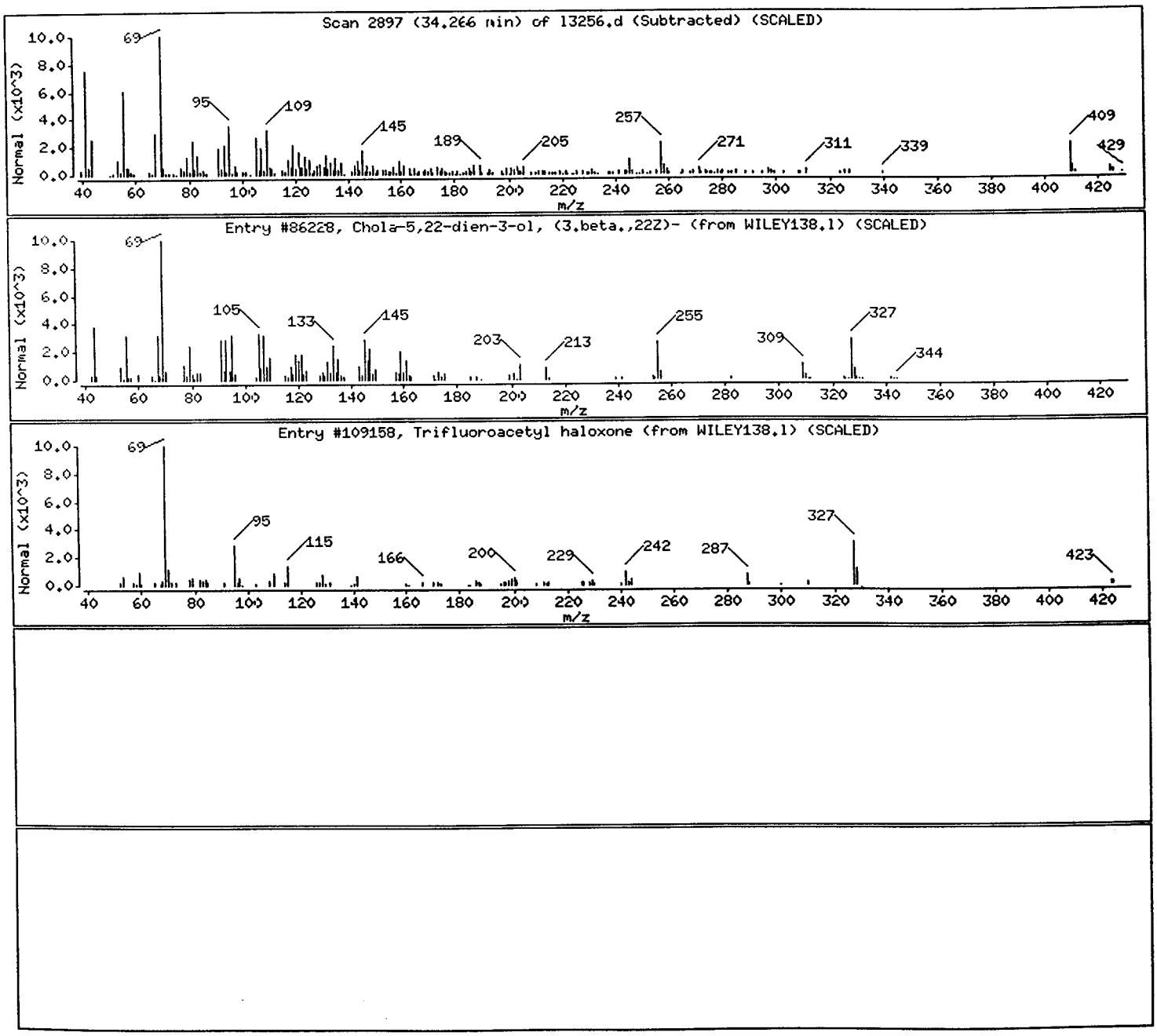
Sample Info: 237818;30;2;1;6.9

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Chola-5,22-dien-3-ol, (3.beta.,22Z)-	57597-14-5	WILEY138.l	86228	38	C24H380	342
Trifluoroacetyl haloxone	0-00-0	WILEY138.l	109158	25	C23H17F6NO6	517



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13256.d

Date : 30-OCT-2000 21:03

Client ID: TPE-1

Instrument: BNAMS7.i

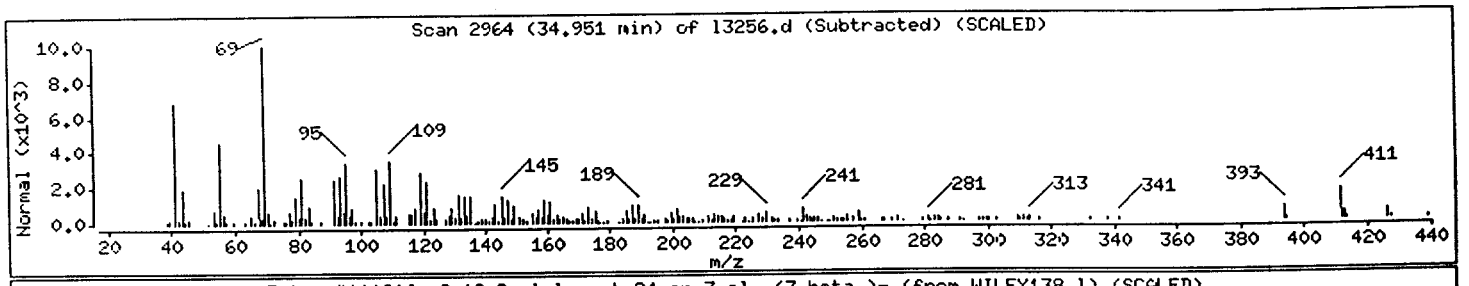
Sample Info: 237818;30;2;1;6.9

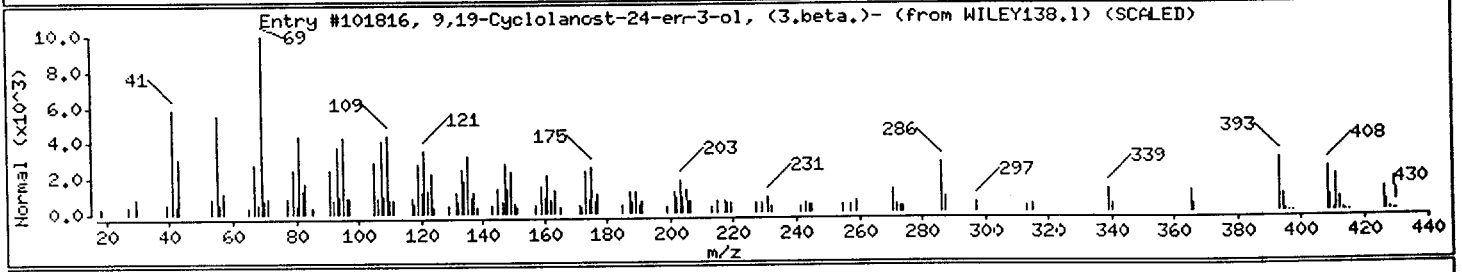
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
9,19-Cyclolanost-24-en-3-ol, (3.beta.)-	469-38-5	WILEY138.l	101816	46	C30H500	426





Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13256.d

Date : 30-OCT-2000 21:03

Client ID: TPE-1

Instrument: BNAMS7.i

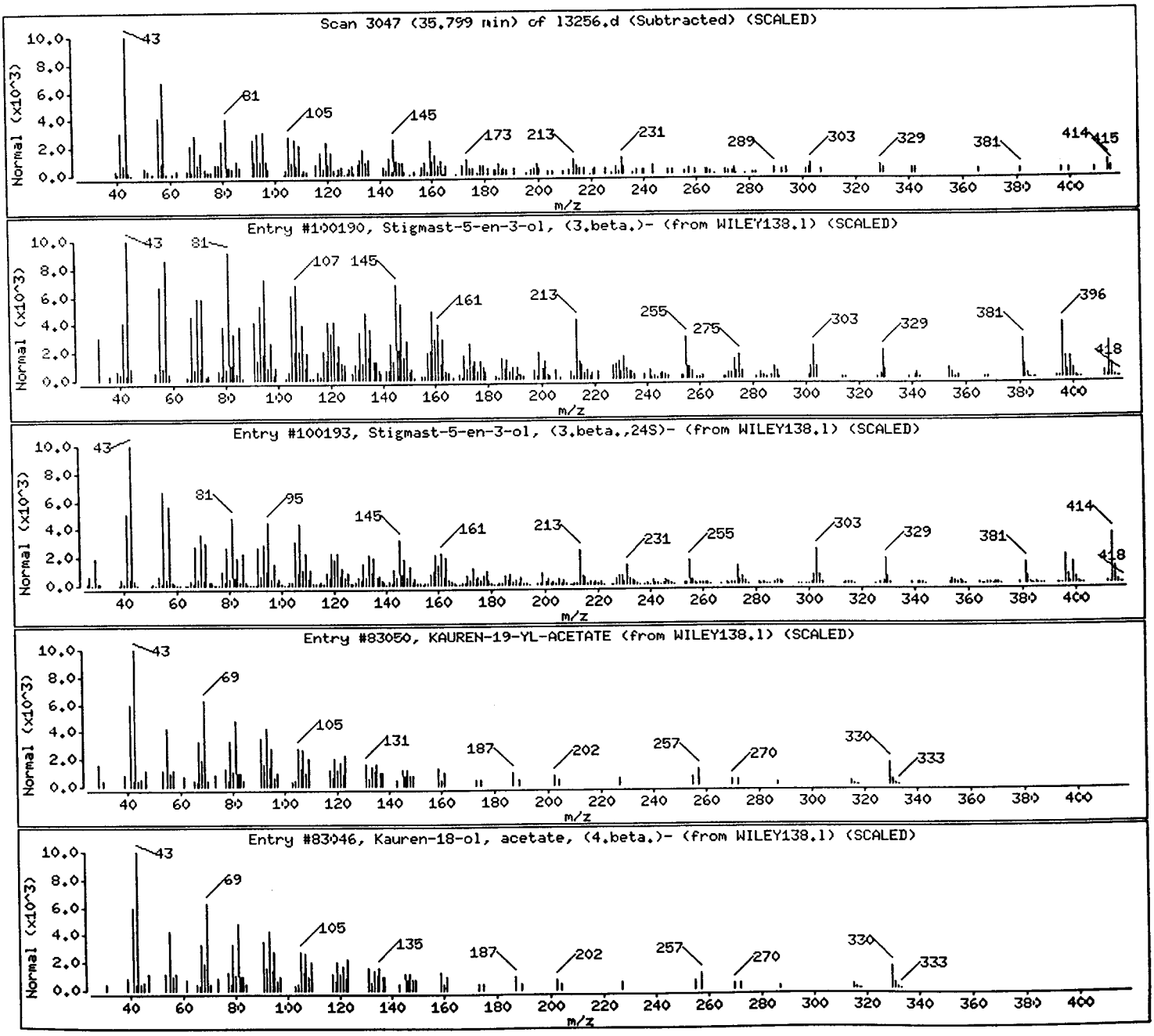
Sample Info: 237818;30;2;1;6.9

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Sterol						
Stigmast-5-en-3-ol, (3.beta.)-	83-46-5	WILEY138.l	100190	86	C29H50O	414
Stigmast-5-en-3-ol, (3.beta.,24S)-	83-47-6	WILEY138.l	100193	83	C29H50O	414
KAUREN-19-YL-ACETATE	0-00-0	WILEY138.l	83050	43	C22H34O2	330
Kauren-18-ol, acetate, (4.beta.)-	72150-74-4	WILEY138.l	83046	43	C22H34O2	330



Client ID: **TPE-2**
Site: Rexam DSI

Lab Sample No: **237819**
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3257.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 28

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
N-Nitrosodimethylamine	ND	460
bis(2-Chloroethyl)ether	ND	46
1,3-Dichlorobenzene	ND	460
1,4-Dichlorobenzene	ND	460
1,2-Dichlorobenzene	ND	460
bis(2-chloroisopropyl)ether	ND	460
N-Nitroso-di-n-propylamine	ND	46
Hexachloroethane	ND	46
Nitrobenzene	ND	46
Isophorone	ND	460
bis(2-Chloroethoxy)methane	ND	460
1,2,4-Trichlorobenzene	ND	46
Naphthalene	ND	460
Hexachlorobutadiene	ND	92
Hexachlorocyclopentadiene	ND	460
2-Chloronaphthalene	ND	460
Dimethylphthalate	ND	460
Acenaphthylene	ND	460
2,6-Dinitrotoluene	ND	92
Acenaphthene	ND	460
2,4-Dinitrotoluene	ND	92
Diethylphthalate	ND	460
4-Chlorophenyl-phenylether	ND	460
Fluorene	ND	460
N-Nitrosodiphenylamine	ND	460
4-Bromophenyl-phenylether	ND	460
Hexachlorobenzene	ND	46
Phenanthrene	54 J	460
Anthracene	ND	460
Di-n-butylphthalate	ND	460
Fluoranthene	15 J	460
Pyrene	17 J	460
Benzidine	ND	1800
Butylbenzylphthalate	ND	460

Client ID: **TPE-2**
Site: Rexam DSI

Lab Sample No: **237819**
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3257.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 28

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
3,3'-Dichlorobenzidine	ND	920
Benzo(a)anthracene	ND	46
Chrysene	40 J	460
bis(2-Ethylhexyl)phthalate	ND	460
Di-n-octylphthalate	ND	460
Benzo(b)fluoranthene	11 J	46
Benzo(k)fluoranthene	ND	46
Benzo(a)pyrene	ND	46
Indeno(1,2,3-cd)pyrene	ND	46
Dibenz(a,h)anthracene	ND	46
Benzo(g,h,i)perylene	ND	460

Client ID: **TPE-2**
Site: Rexam DSI

Lab Sample No: **237819**
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3257.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 27.7

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	Unknown Alkane	24.32	420	
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
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22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION	420

Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/l3257.d
Report Date: 31-Oct-2000 09:34

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/l3257.d
Lab Smp Id: 237819 Client Smp ID: TPE-2
Inj Date : 30-OCT-2000 21:52
Operator : BNAMS 4 Inst ID: BNAMS7.i
Smp Info : 237819;30;2;1;27.7
Misc Info : F104;PPBN+15;6924;114
Comment :
Method : /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/8270C1.m
Meth Date : 30-Oct-2000 15:17 acierno Quant Type: ISTD
Cal Date : 27-OCT-2000 12:29 Cal File: l3224.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPBNb.sub
Target Version: 3.50
Processing Host: hpd1

JR

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	2.00000	Volume of final extract (ml)
Ws	30.00000	Weight of sample extracted (g)
M	27.70000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 79 1,4-Dichlorobenzene-d4	152	13.176	13.186	(1.000)	329356	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	14.137	14.147	(0.921)	677504	48.1550	4400
* 80 Naphthalene-d8	136	15.354	15.374	(1.000)	1360162	40.0000	
$ 77 2-Fluorobiphenyl (SUR)	172	17.154	17.164	(0.937)	1066477	49.8910	4600
* 82 Acenaphthene-d10	164	18.299	18.309	(1.000)	786265	40.0000	
* 83 Phenanthrene-d10	188	20.773	20.794	(1.000)	1416090	40.0000	
52 Phenanthrene	178	20.814	20.834	(1.002)	20219	0.58333	54(a)
56 Fluoranthene	202	22.788	22.818	(1.097)	6056	0.16391	15(a)
57 Pyrene	202	23.176	23.196	(0.918)	6739	0.18012	17(a)
$ 78 Terphenyl-d14 (SUR)	244	23.411	23.411	(0.927)	1521987	53.0194	4900
* 81 Chrysene-d12	240	25.252	25.282	(1.000)	1413175	40.0000	
62 Chrysene	228	25.293	25.333	(1.002)	14981	0.43843	40(a)
65 Benzo(b)fluoranthene	252	27.788	27.839	(0.957)	3659	0.11526	11(a)

Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/l3257.d
Report Date: 31-Oct-2000 09:34

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
* 84 Perylene-d12	264	29.035	29.066	(1.000)	1219653	40.0000	

QC Flag Legend

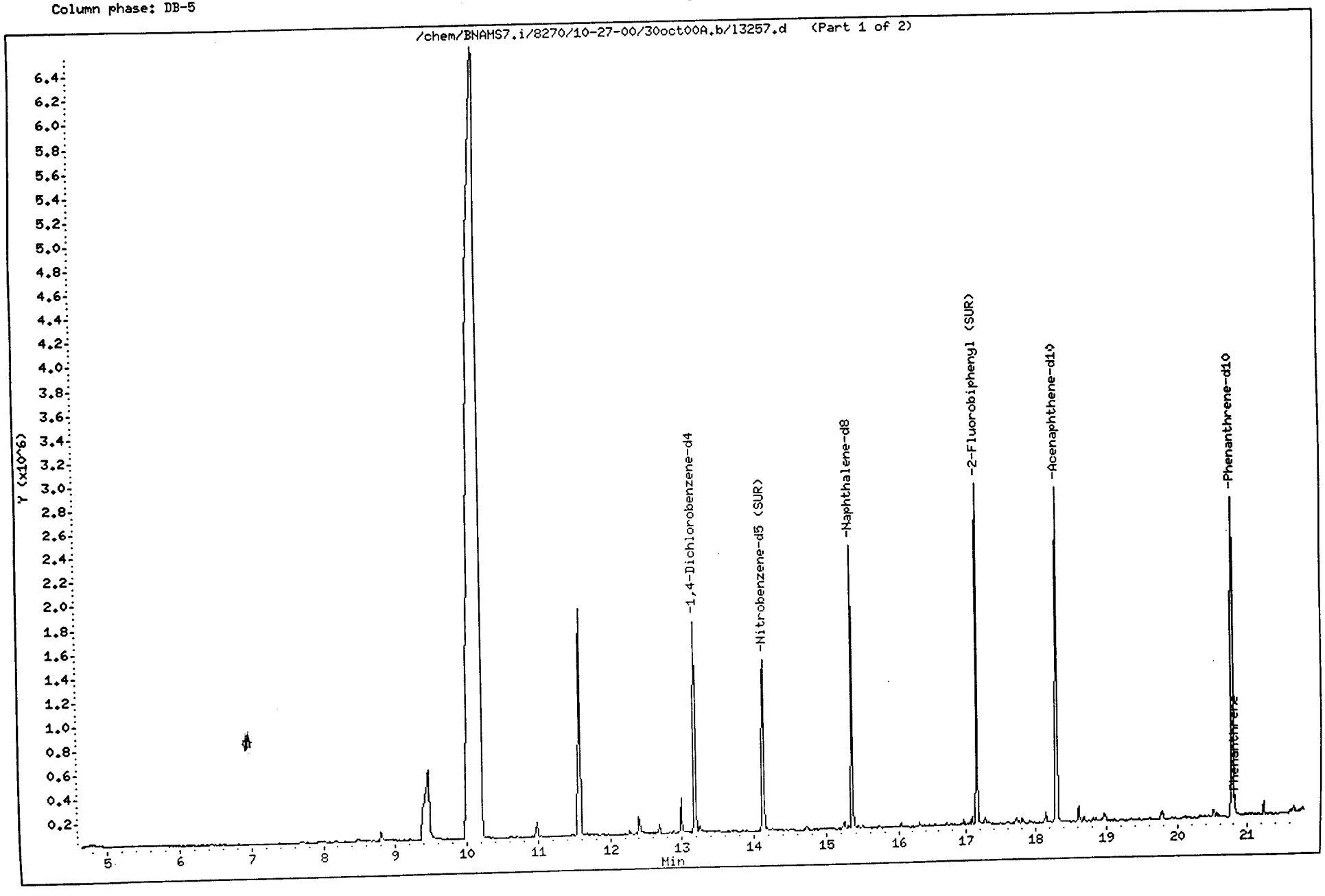
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13257.d
Date : 30-OCT-2000 21:52
Client ID: TPE-2
Sample Info: 237819;30;2;1;27.7

Instrument: BNAMS7.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5

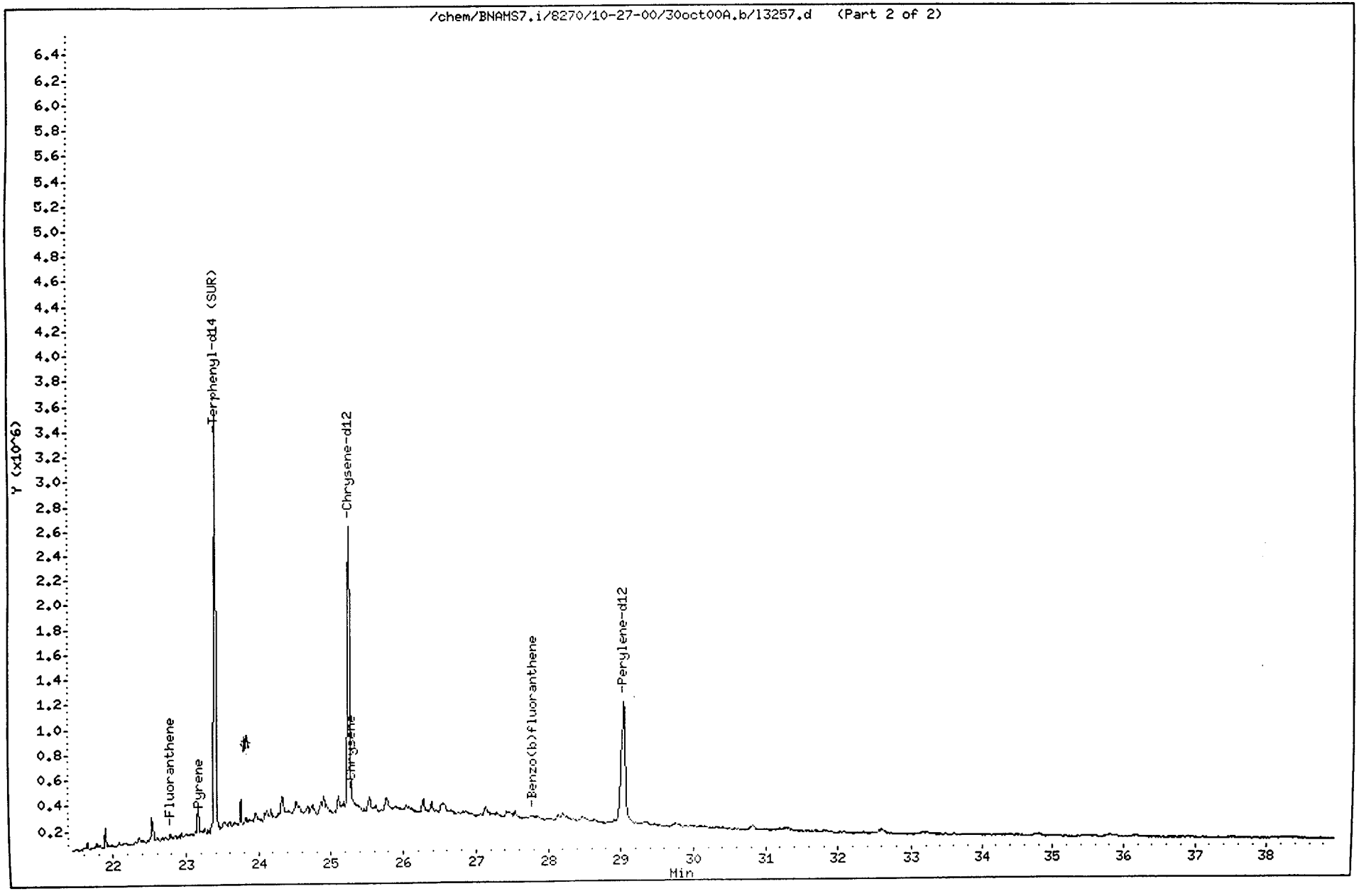


Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13257.d
Date : 30-OCT-2000 21:52
Client ID: TPE-2
Sample Info: 237819;30;2;1;27.7

Instrument: BNAMS7.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13257.d

Date : 30-OCT-2000 21:52

Client ID: TPE-2

Instrument: BNAMS7.i

Sample Info: 237819;30;2;1;27.7

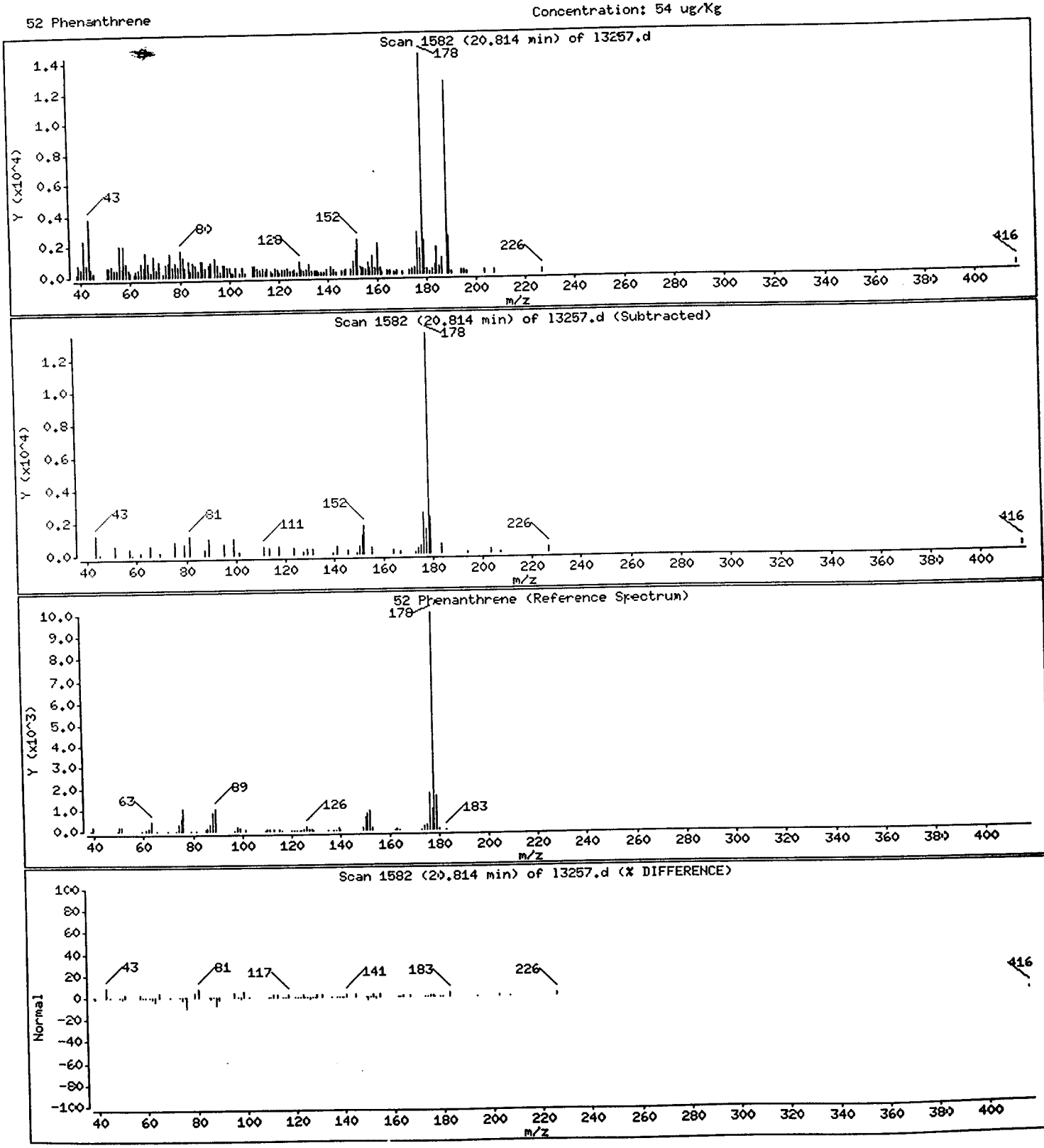
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

52 Phenanthrene

Concentration: 54 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13257.d

Date : 30-OCT-2000 21:52

Client ID: TPE-2

Instrument: BNAMS7.i

Sample Info: 237819;30;2;1;27.7

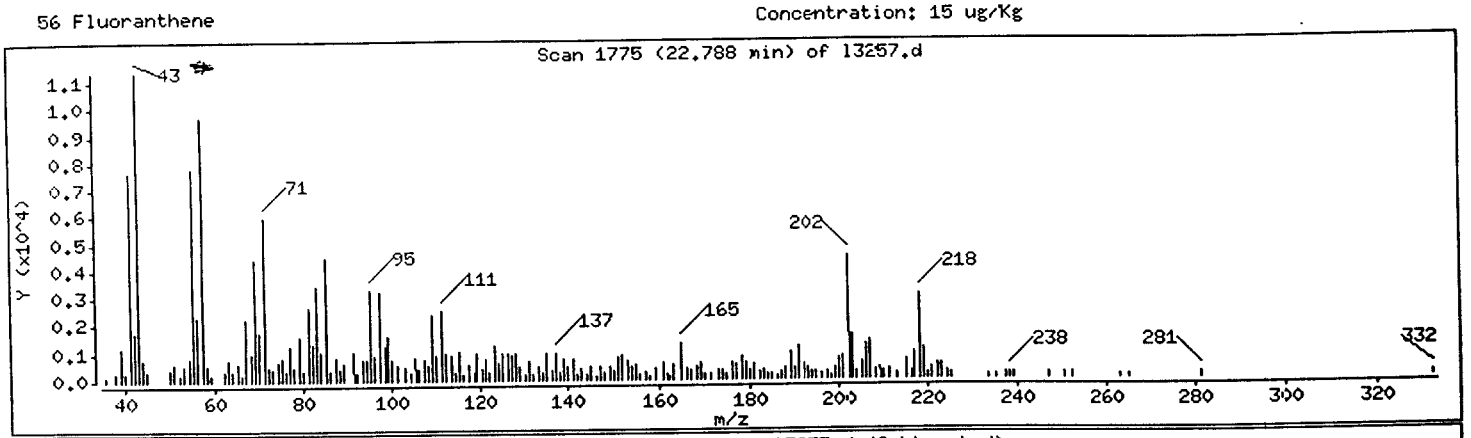
Operator: BNAMS 4

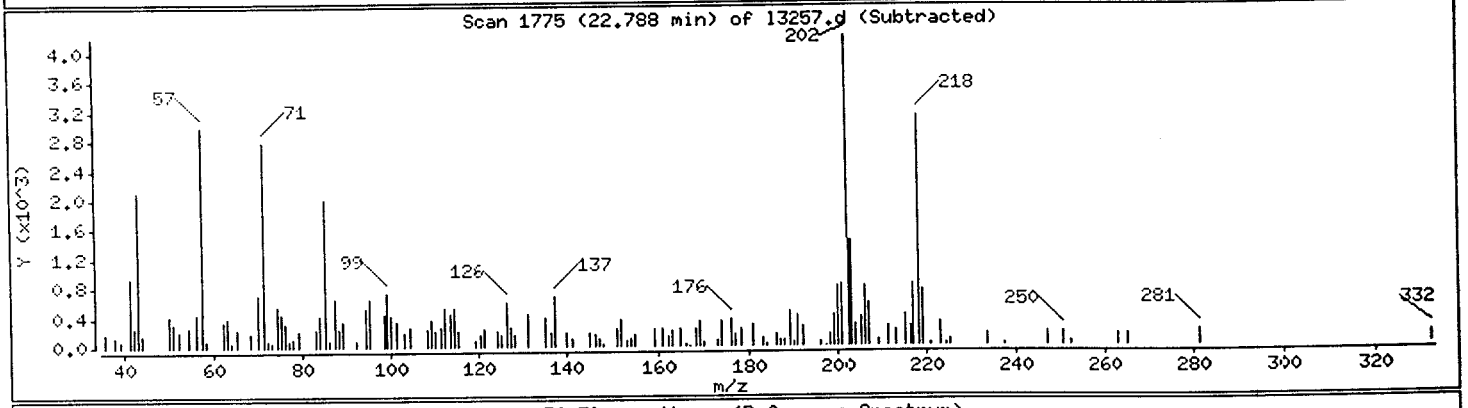
Column phase: DB-5

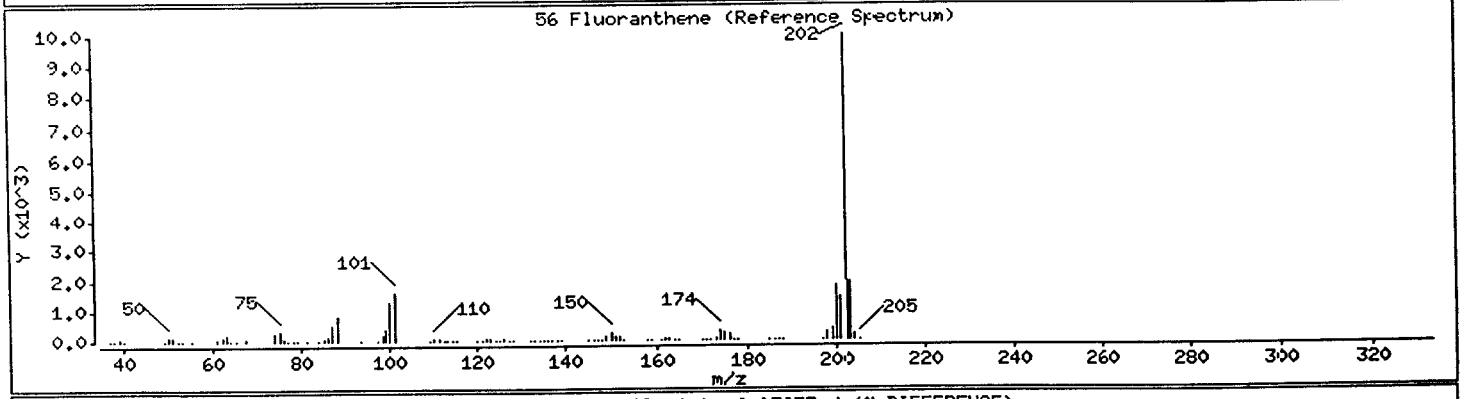
Column diameter: 0.25

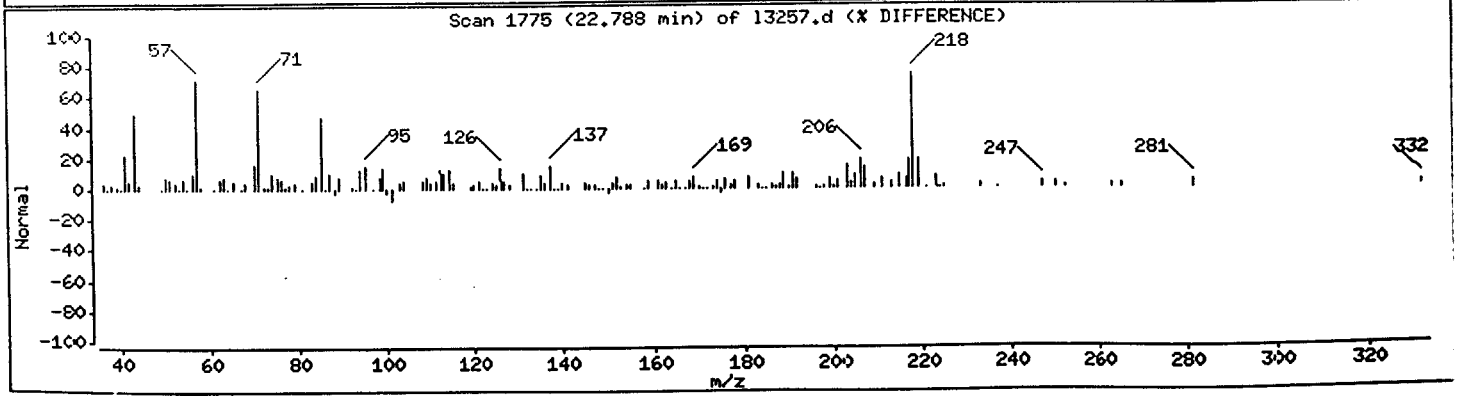
56 Fluoranthene

Concentration: 15 ug/Kg









Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13257.d

Date : 30-OCT-2000 21:52

Client ID: TPE-2

Instrument: BNAMS7.i

Sample Info: 237819;30;2;1;27.7

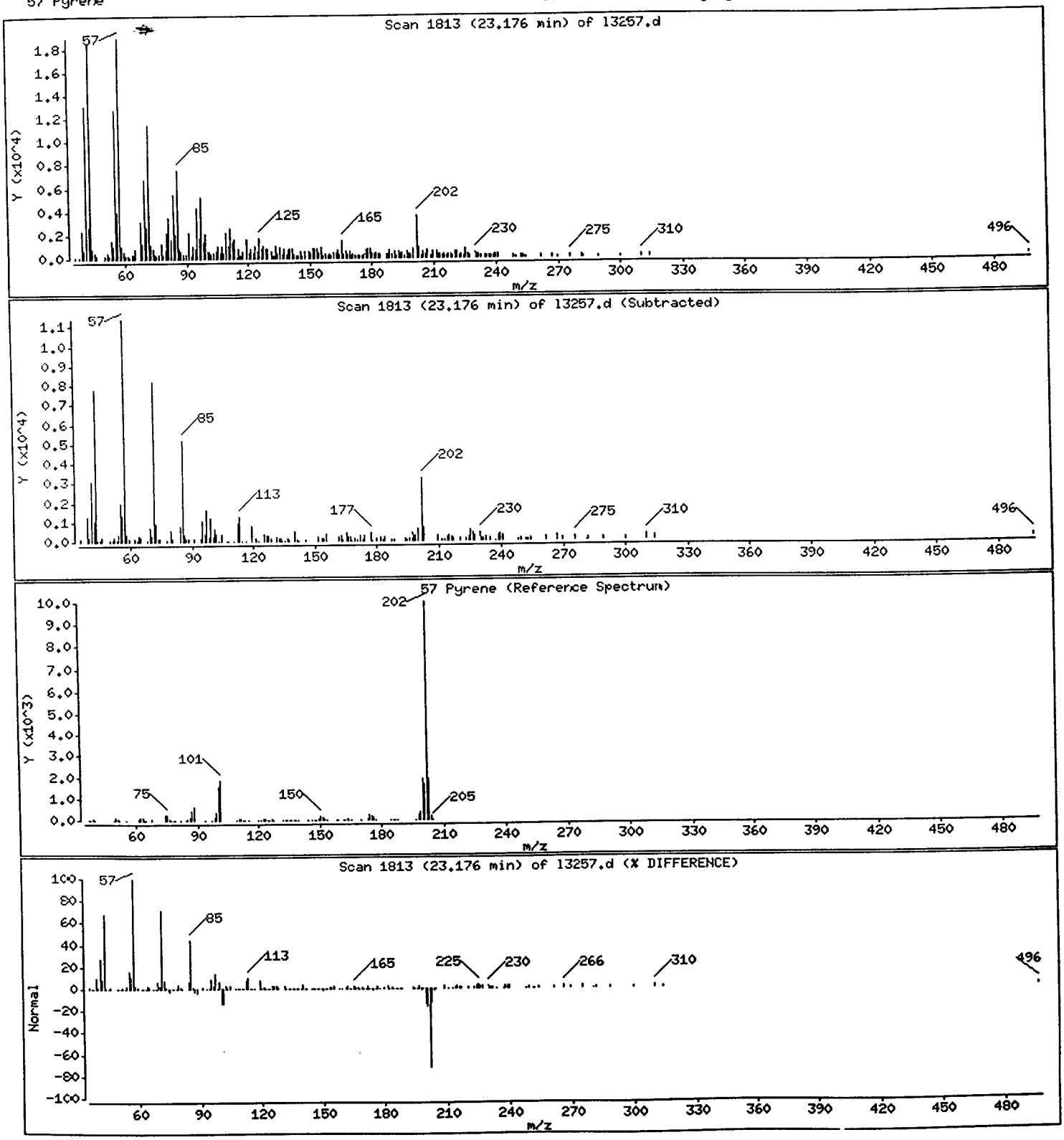
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

57 Pyrene

Concentration: 17 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13257.d

Date : 30-OCT-2000 21:52

Client ID: TPE-2

Instrument: BNAMS7.i

Sample Info: 237819;30;2;1;27.7

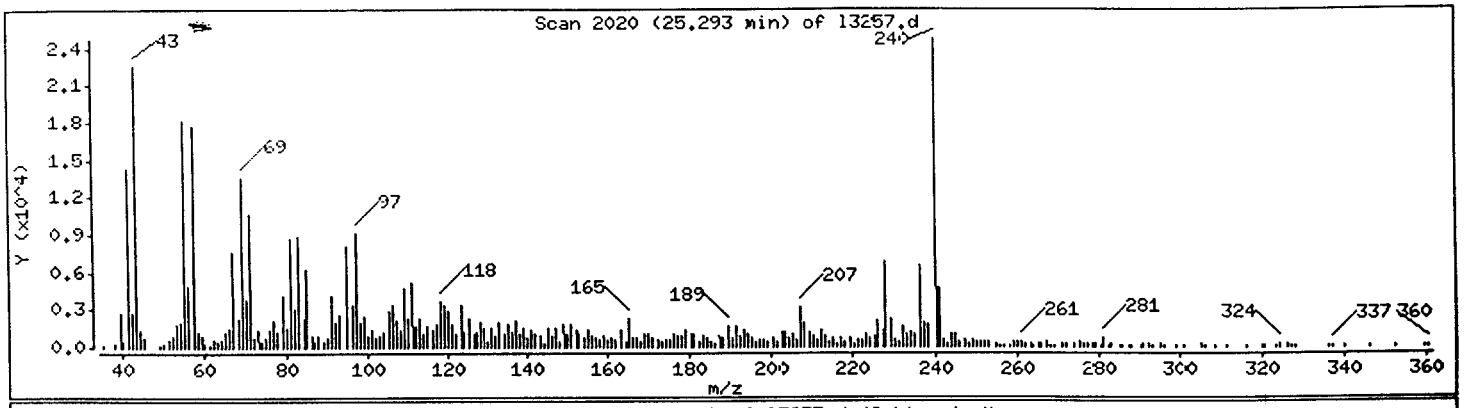
Operator: BNAMS 4

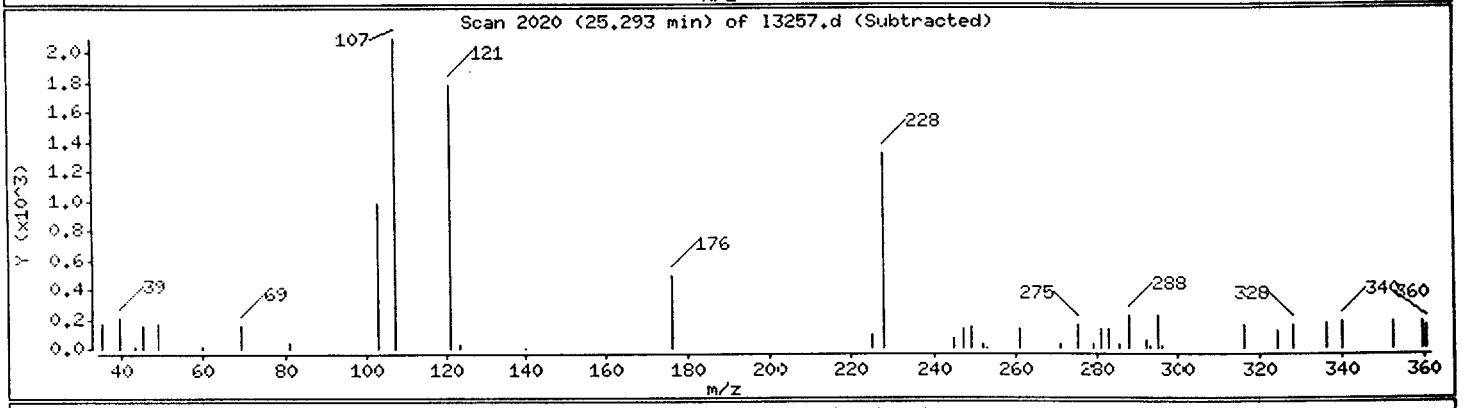
Column phase: DB-5

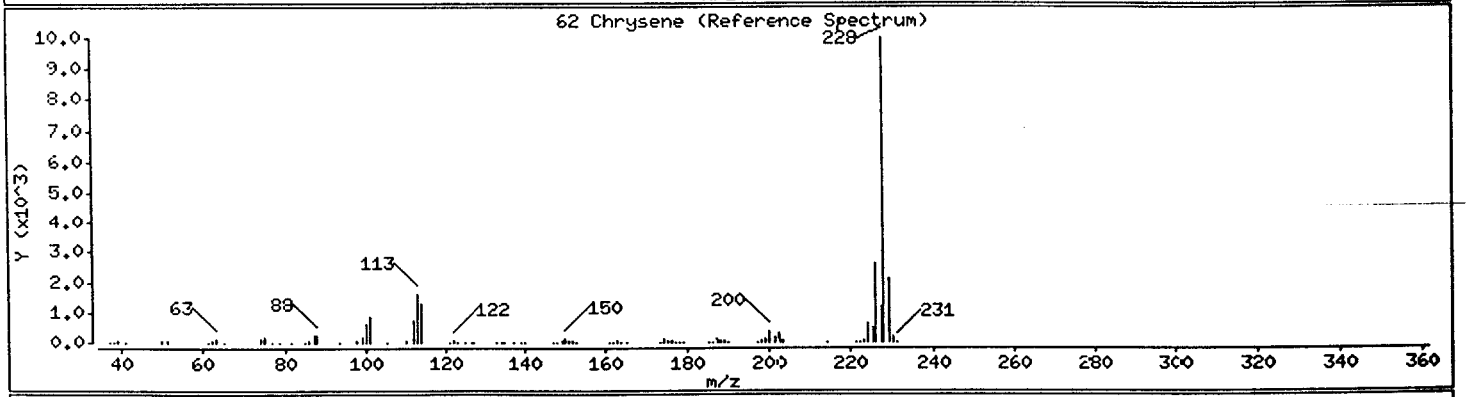
Column diameter: 0.25

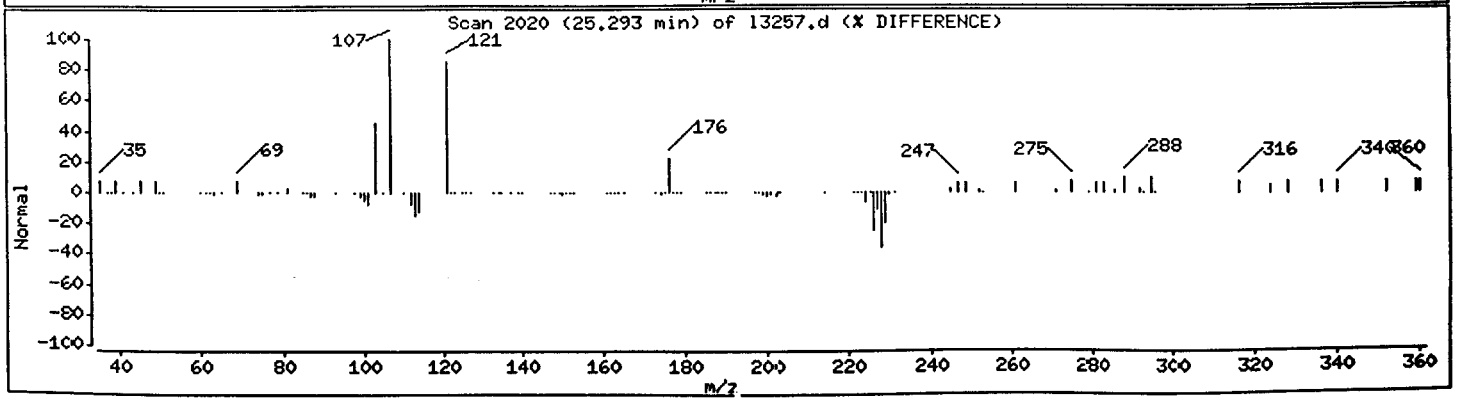
62 Chrysene

Concentration: 40 ug/Kg









Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13257.d

Date : 30-OCT-2000 21:52

Client ID: TPE-2

Instrument: BNAMS7.i

Sample Info: 237819;30;2;1;27.7

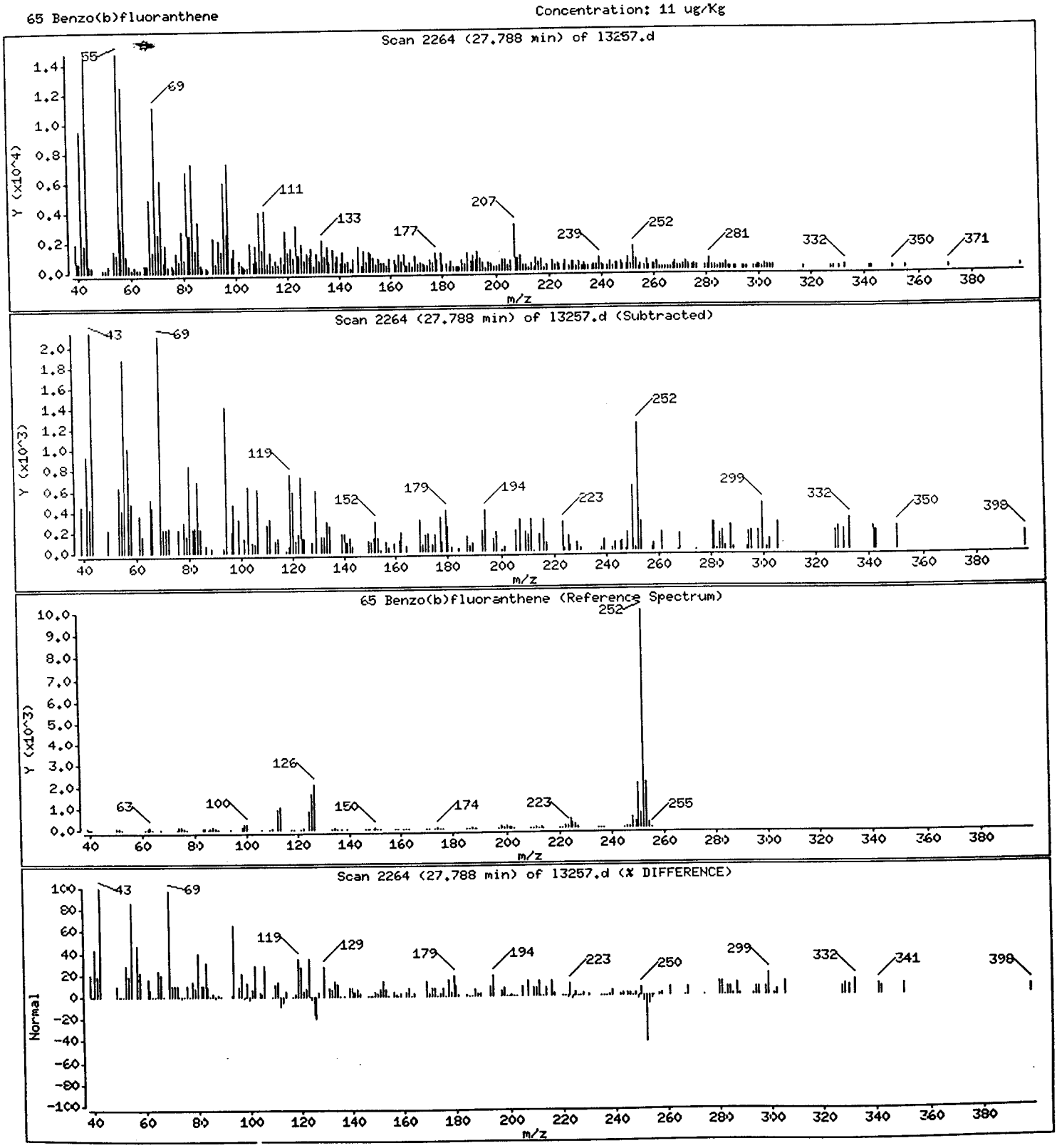
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

65 Benzo(b)fluoranthene

Concentration: 11 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13257.d

Date : 30-OCT-2000 21:52

Client ID: TPE-2

Instrument: BNAMS7.i

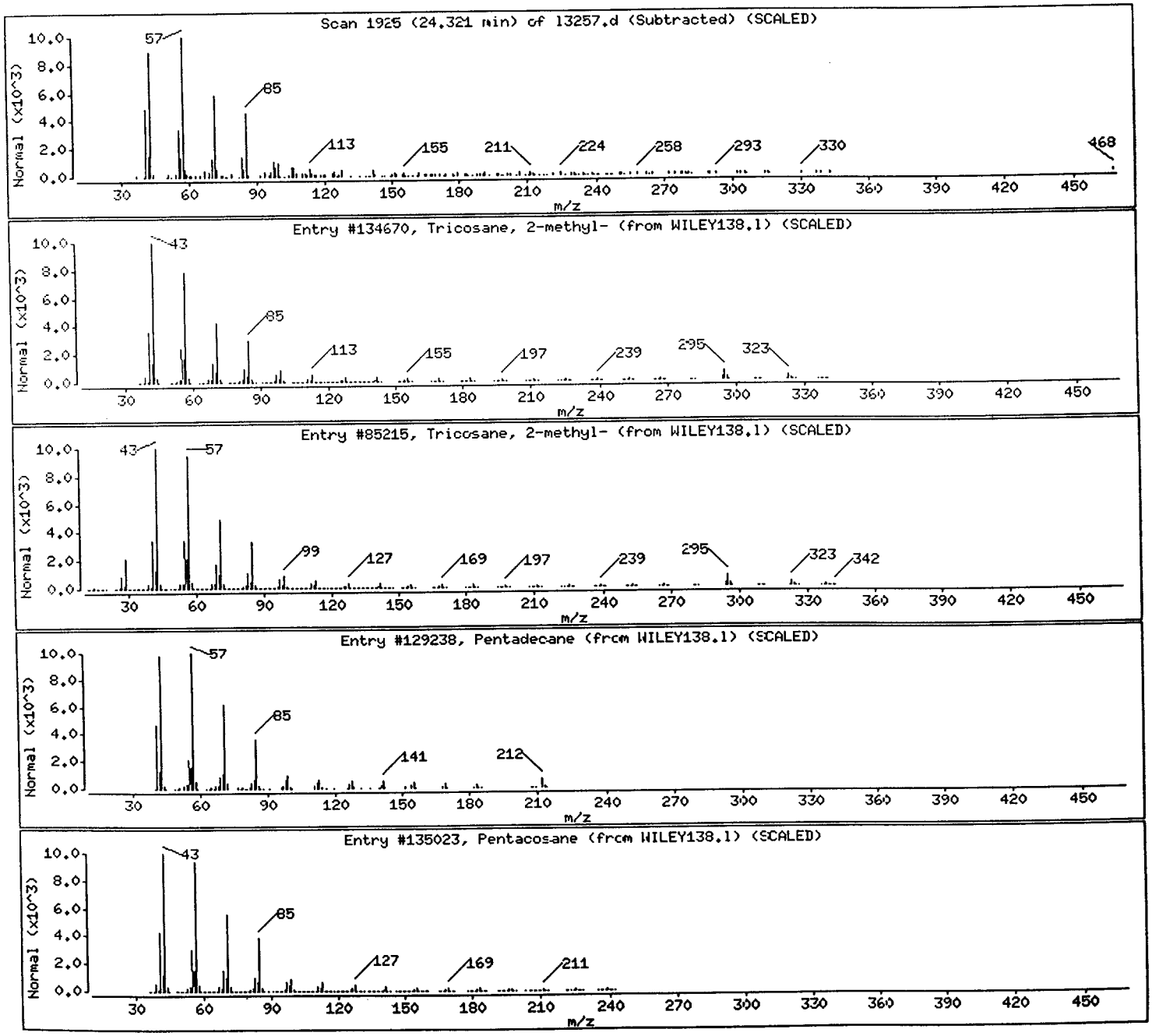
Sample Info: 237819;30;2;1;27.7

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Tricosane, 2-methyl-	1928-30-9	WILEY138.l	134670	93	C24H50	338
Tricosane, 2-methyl-	1928-30-9	WILEY138.l	85215	93	C24H50	338
Pentadecane	629-62-9	WILEY138.l	129238	90	C15H32	212
Pentacosane	629-99-2	WILEY138.l	135023	90	C25H52	352



Client ID: **TPE-3**
Site: Rexam DSI

Lab Sample No: **237820**
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 11/01/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3319.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 4

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
N-Nitrosodimethylamine	ND	350
bis(2-Chloroethyl)ether	ND	35
1,3-Dichlorobenzene	ND	350
1,4-Dichlorobenzene	ND	350
1,2-Dichlorobenzene	ND	350
bis(2-chloroisopropyl)ether	ND	350
N-Nitroso-di-n-propylamine	ND	35
Hexachloroethane	ND	35
Nitrobenzene	ND	35
Isophorone	ND	350
bis(2-Chloroethoxy)methane	ND	350
1,2,4-Trichlorobenzene	ND	35
Naphthalene	ND	350
Hexachlorobutadiene	ND	70
Hexachlorocyclopentadiene	ND	350
2-Chloronaphthalene	ND	350
Dimethylphthalate	ND	350
Acenaphthylene	ND	350
2,6-Dinitrotoluene	ND	70
Acenaphthene	ND	350
2,4-Dinitrotoluene	ND	70
Diethylphthalate	ND	350
4-Chlorophenyl-phenylether	ND	350
Fluorene	ND	350
N-Nitrosodiphenylamine	ND	350
4-Bromophenyl-phenylether	ND	350
Hexachlorobenzene	ND	35
Phenanthrene	ND	350
Anthracene	ND	350
Di-n-butylphthalate	ND	350
Fluoranthene	8.5J	350
Pyrene	12 J	350
Benzidine	ND	1400
Butylbenzylphthalate	ND	350

Client ID: **TPE-3**
Site: Rexam DSI

Lab Sample No: **237820**
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 11/01/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3319.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 4

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
3,3'-Dichlorobenzidine	ND	700
Benzo(a)anthracene	ND	35
Chrysene	8.3J	350
bis(2-Ethylhexyl)phthalate	ND	350
Di-n-octylphthalate	ND	350
Benzo(b)fluoranthene	10 J	35
Benzo(k)fluoranthene	ND	35
Benzo(a)pyrene	ND	35
Indeno(1,2,3-cd)pyrene	ND	35
Dibenz(a,h)anthracene	ND	35
Benzo(g,h,i)perylene	ND	350

Client ID: **TPE-3**
Site: Rexam DSI

Lab Sample No: **237820**
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 11/01/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3319.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 4.2

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
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23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION 0.0

Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/l3319.d
Report Date: 02-Nov-2000 08:14

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS7.i/8270/11-01-00/01nov00.b/l3319.d
Lab Smp Id: 237820
Inj Date : 01-NOV-2000 21:26 Client Smp ID: TPE-3
Operator : BNAMS 4
Smp Info : 237820;30;2;1;4.2 Inst ID: BNAMS7.i
Misc Info : F104;PPBN+15;6924;114
Comment :
Method : /chem/BNAMS7.i/8270/11-01-00/01nov00.b/8270C1.m
Meth Date : 02-Nov-2000 06:00 acierno Quant Type: ISTD
Cal Date : 01-NOV-2000 15:44 Cal File: l3312.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50 Compound Sublist: PPBNb.sub
Processing Host: hpd1

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariabl

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	2.00000	Volume of final extract (ml)
Ws	30.00000	Weight of sample extracted (g)
M	4.20000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	79 1,4-Dichlorobenzene-d4	152	13.114	13.116	(1.000)	207493	40.0000	
$	76 Nitrobenzene-d5 (SUR)	82	14.075	14.077	(0.920)	550728	48.2876	3400
*	80 Naphthalene-d8	136	15.302	15.304	(1.000)	743033	40.0000	
$	77 2-Fluorobiphenyl (SUR)	172	17.091	17.094	(0.937)	805454	47.2215	3300
*	82 Acenaphthene-d10	164	18.237	18.249	(1.000)	531311	40.0000	
*	83 Phenanthrene-d10	188	20.721	20.723	(1.000)	1144488	40.0000	
	56 Fluoranthene	202	22.725	22.738	(1.097)	3962	0.12239	8.5(aM)
	57 Pyrene	202	23.114	23.126	(0.918)	4834	0.17063	12(a)
$	78 Terphenyl-d14 (SUR)	244	23.349	23.341	(0.927)	1392350	58.9326	4100
*	81 Chrysene-d12	240	25.179	25.192	(1.000)	1099207	40.0000	
	62 Chrysene	228	25.220	25.243	(1.002)	3295	0.11928	8.3(a)
	65 Benzo(b)fluoranthene	252	27.664	27.697	(0.957)	3819	0.14905	10(aM)
*	84 Perylene-d12	264	28.901	28.914	(1.000)	932188	40.0000	

Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/l3319.d
Report Date: 02-Nov-2000 08:14

QC Flag Legend

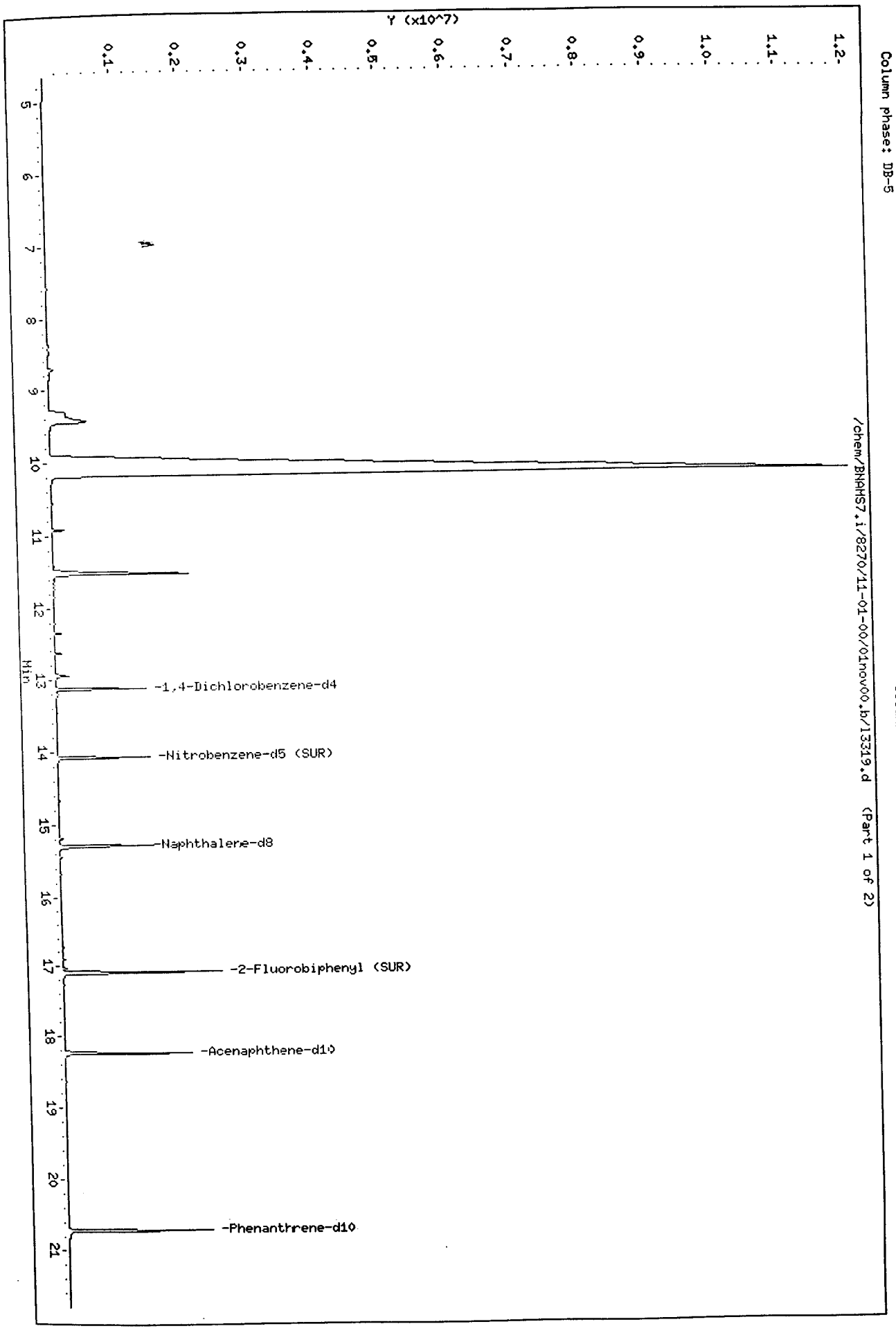
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/13319.d
Date : 01-NOV-2000 21:26
Client ID: TPE-3
Sample Info: 237820;30;2;1;4.2

Instrument: BNAMS7.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5



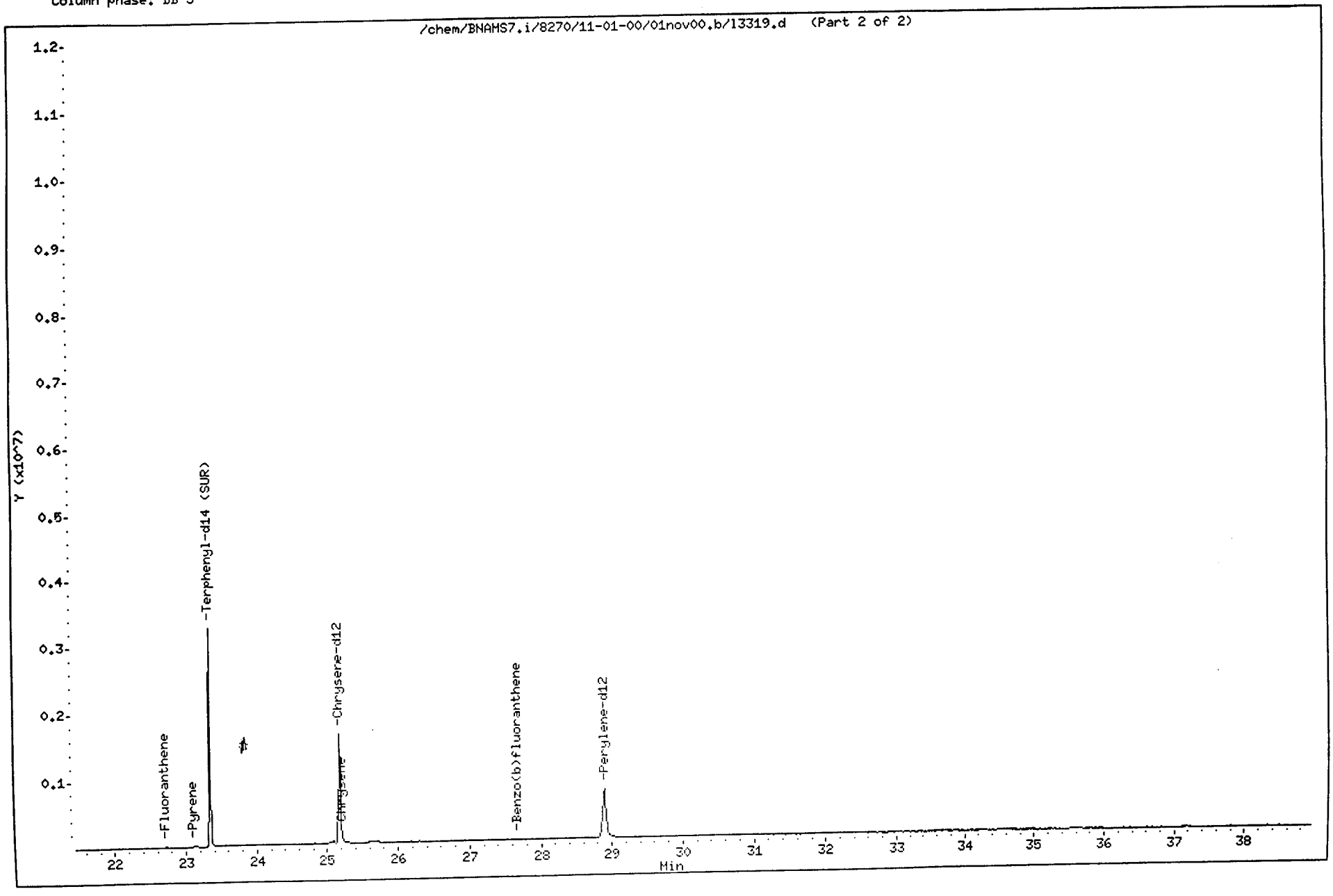
Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/13319.d
Date : 01-NOV-2000 21:26
Client ID: TPE-3
Sample Info: 237820;30;2;1;4.2

Instrument: BNAMS7.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5

692



Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/13319.d

Date : 01-NOV-2000 21:26

Client ID: TPE-3

Instrument: BNAMS7.i

Sample Info: 237820;30;2;1;4.2

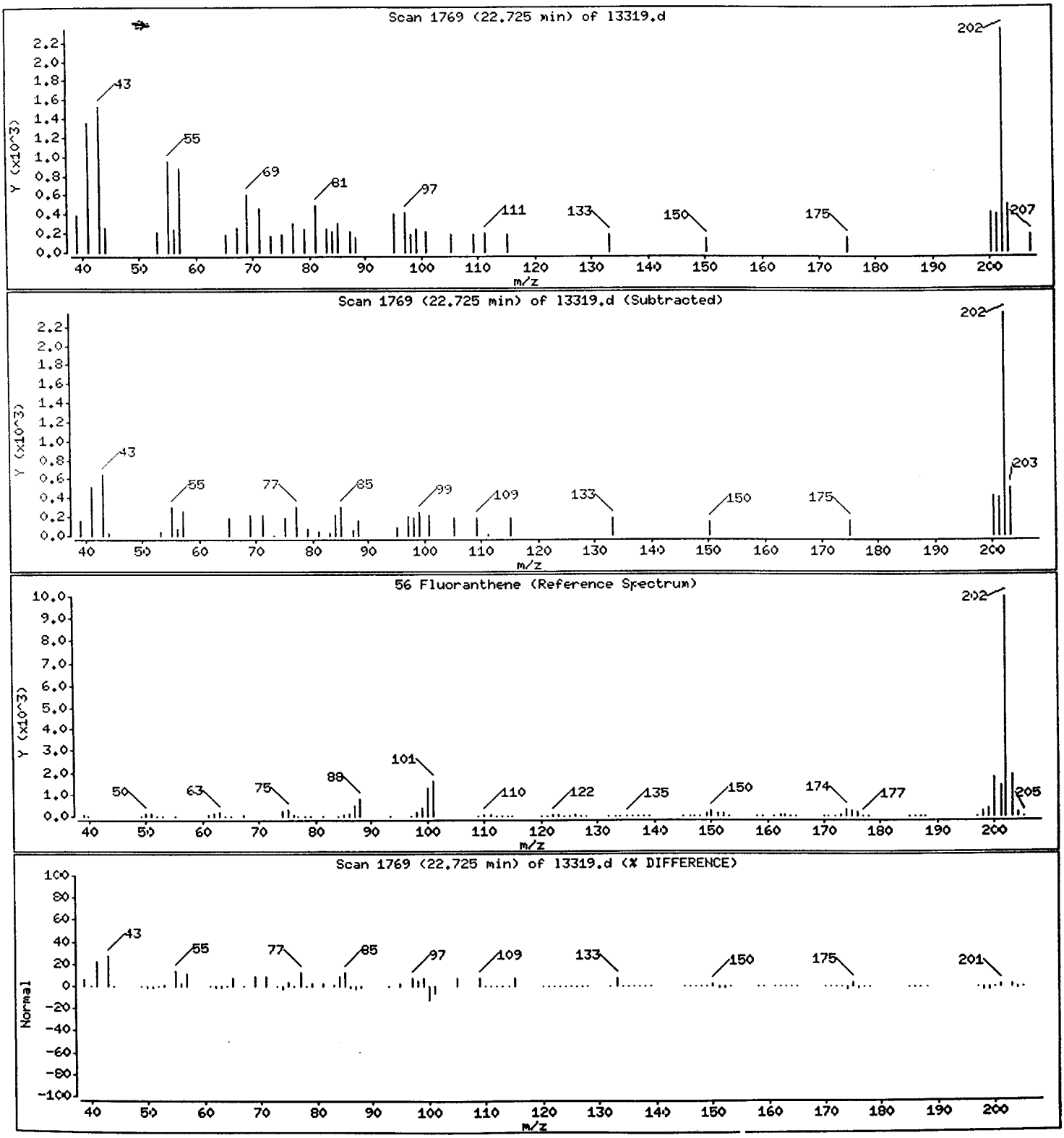
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

56 Fluoranthene

Concentration: 8.5 ug/Kg



Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/13319.d

Date : 01-NOV-2000 21:26

Client ID: TPE-3

Instrument: BNAMS7.i

Sample Info: 237820;30;2;1;4.2

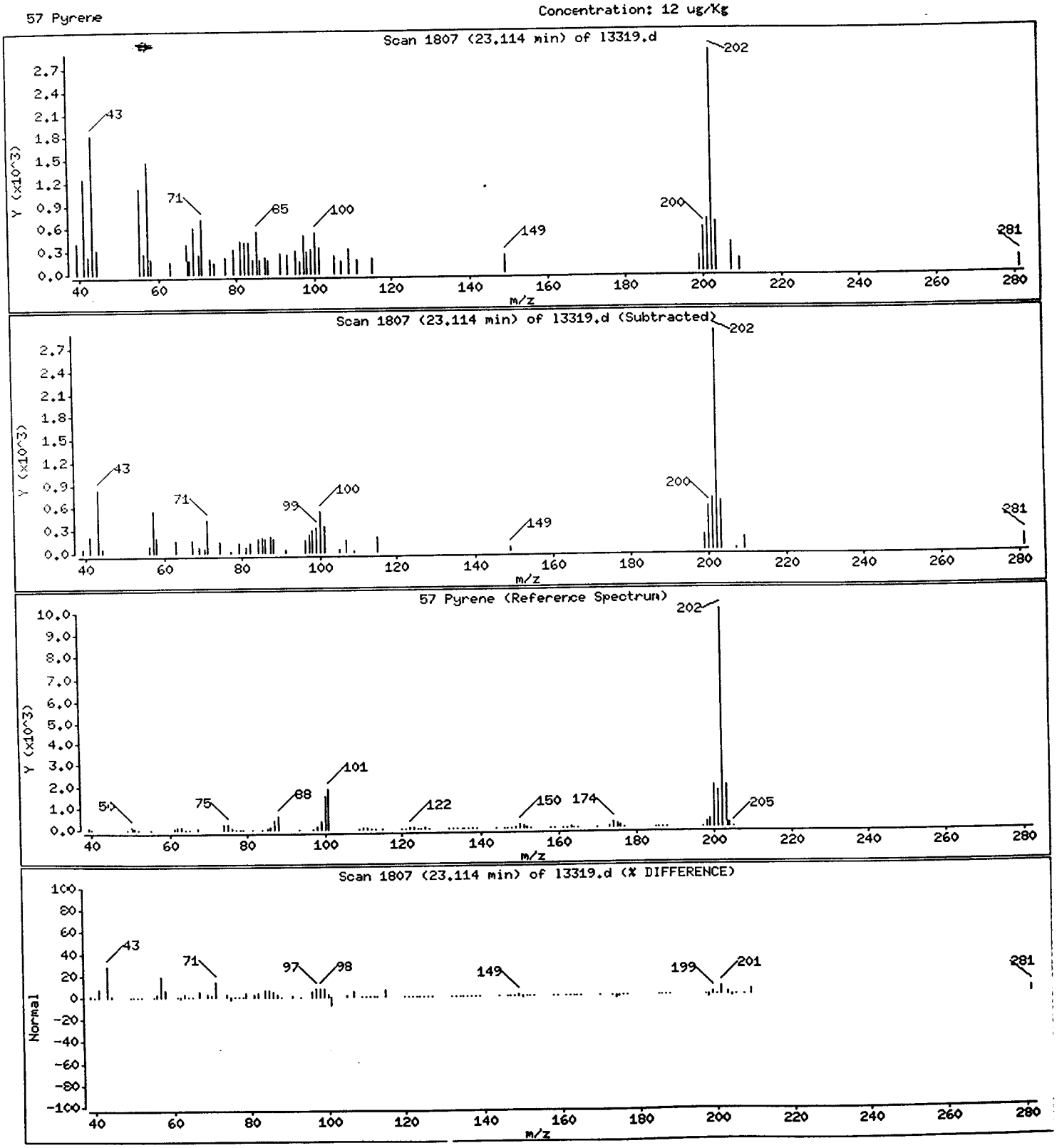
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

57 Pyrene

Concentration: 12 ug/Kg



Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/13319.d

Date : 01-NOV-2000 21:26

Client ID: TPE-3

Instrument: BNAMS7.i

Sample Info: 237820;30;2;1;4.2

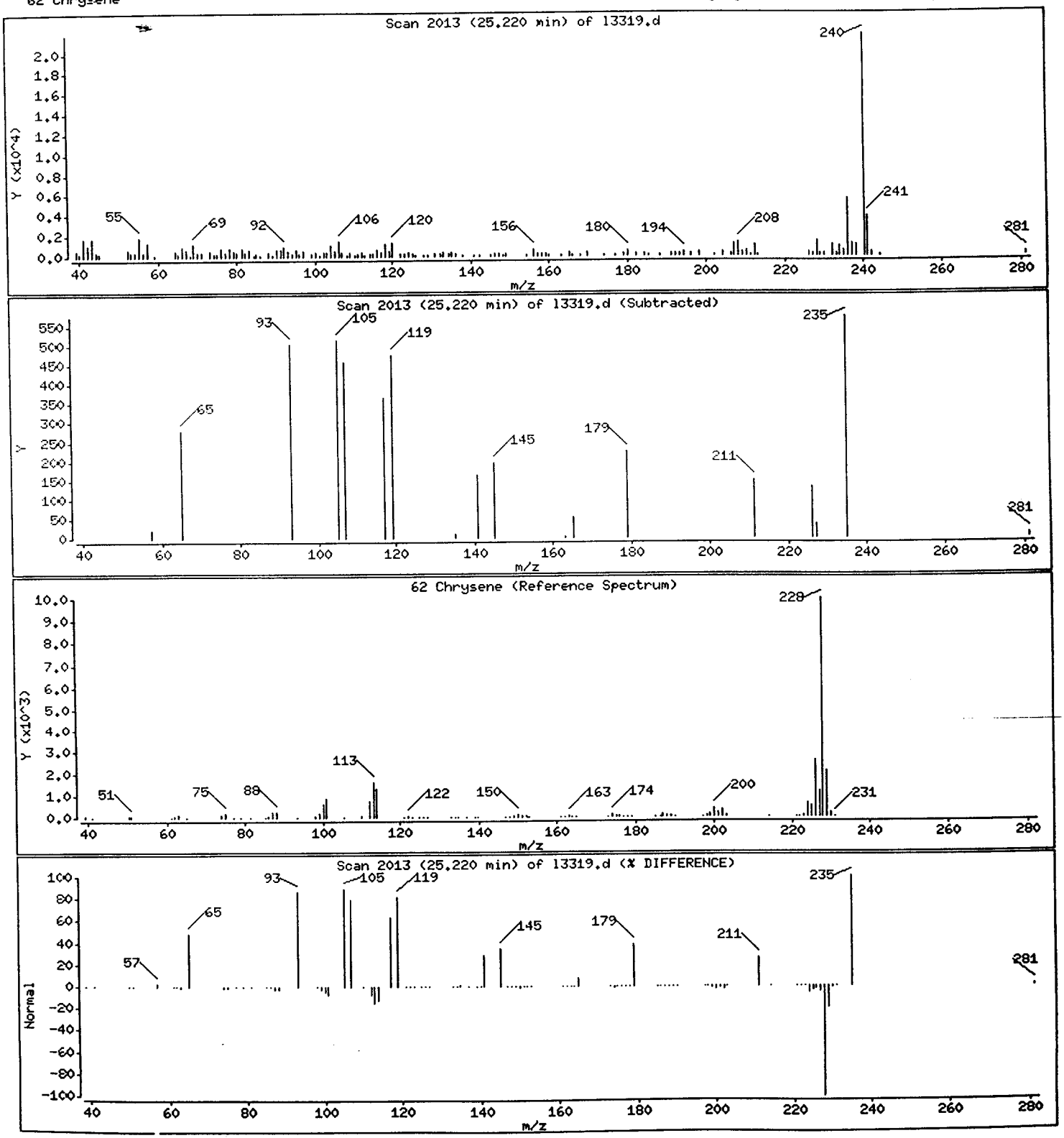
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

62 Chrysene

Concentration: 8.3 ug/Kg



Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/13319.d

Date : 01-NOV-2000 21:26

Client ID: TPE-3

Instrument: BNAMS7.i

Sample Info: 237820;30;2;1;4.2

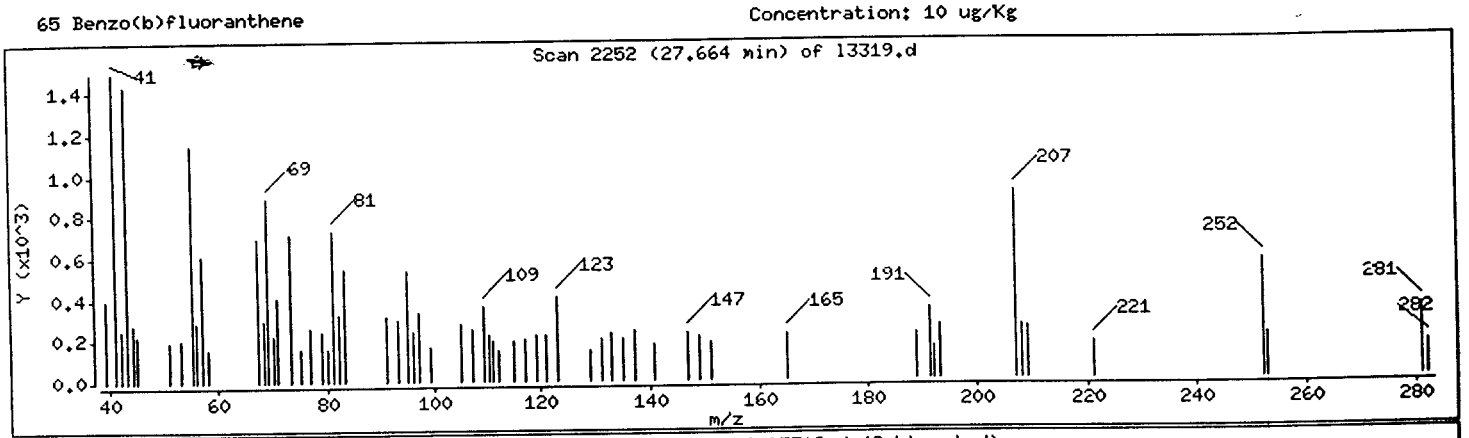
Operator: BNAMS 4

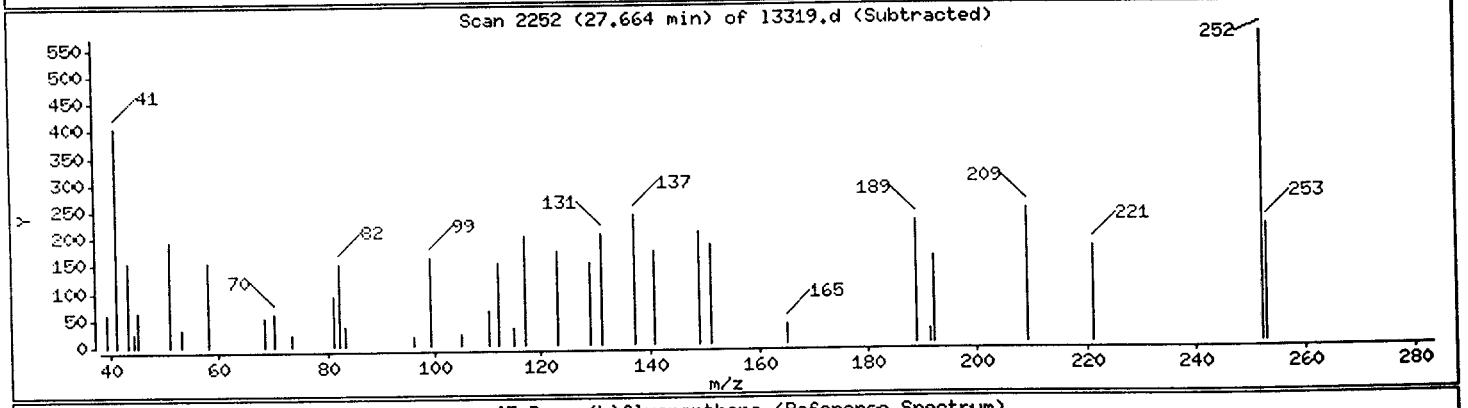
Column phase: DB-5

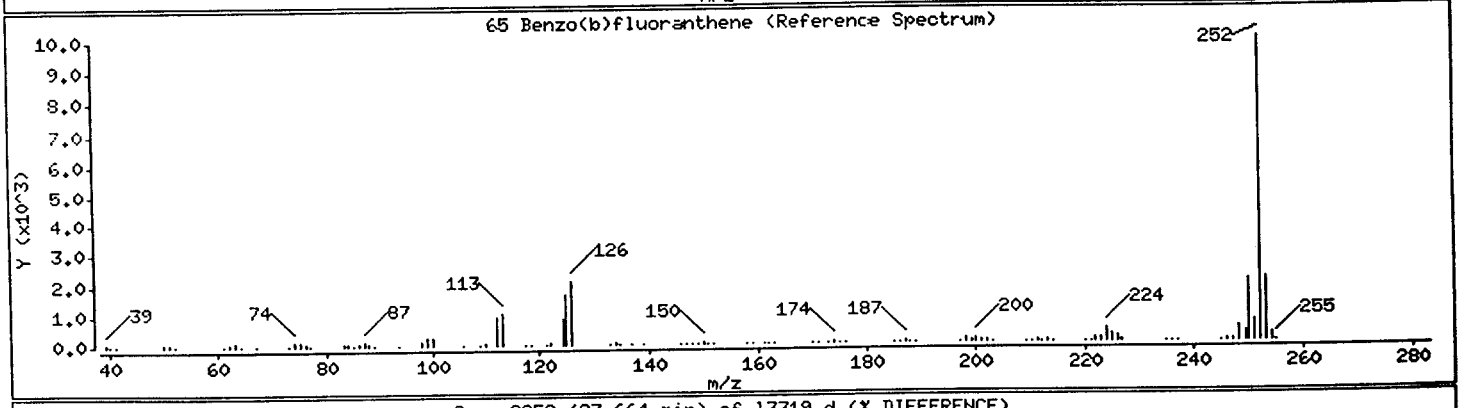
Column diameter: 0.25

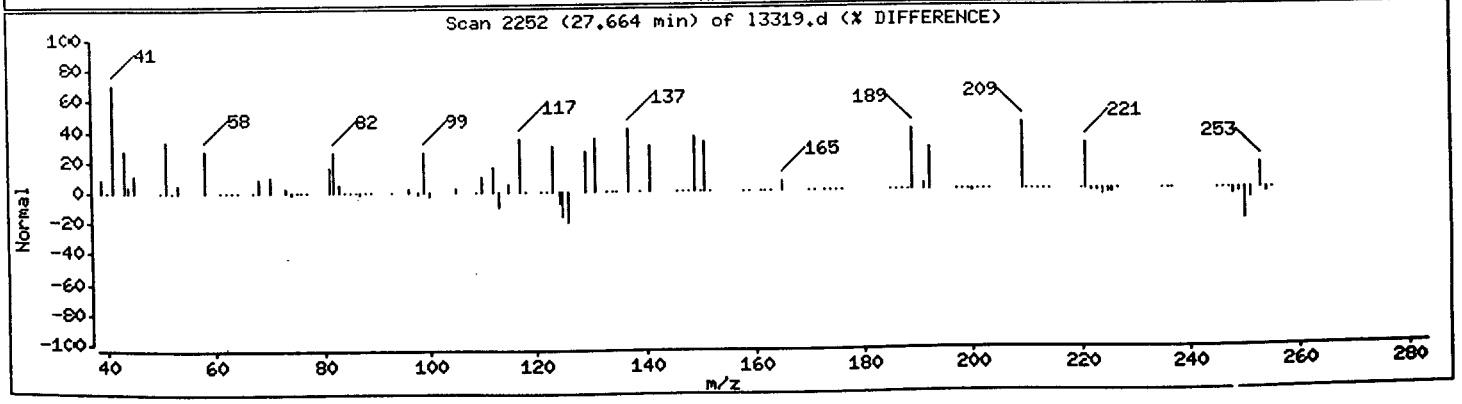
65 Benzo(b)fluoranthene

Concentration: 10 ug/Kg









Client ID: **MW-1**
Site: Rexam DSI

Lab Sample No: **237821**
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa2509.d

Matrix: WATER
Level: LOW
Sample Volume: 900 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 625

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
N-Nitrosodimethylamine	ND	0.5
bis(2-Chloroethyl)ether	ND	1.2
1,3-Dichlorobenzene	ND	0.6
1,4-Dichlorobenzene	ND	0.7
1,2-Dichlorobenzene	ND	0.6
bis(2-chloroisopropyl)ether	ND	1.2
N-Nitroso-di-n-propylamine	ND	0.9
Hexachloroethane	ND	0.8
Nitrobenzene	ND	0.9
Isophorone	ND	1.0
bis(2-Chloroethoxy)methane	ND	1.0
1,2,4-Trichlorobenzene	ND	0.6
Naphthalene	ND	0.9
Hexachlorobutadiene	ND	0.6
Hexachlorocyclopentadiene	ND	1.0
2-Chloronaphthalene	ND	0.9
Dimethylphthalate	ND	0.5
Acenaphthylene	ND	0.5
2,6-Dinitrotoluene	ND	0.8
Acenaphthene	ND	0.6
2,4-Dinitrotoluene	ND	0.6
Diethylphthalate	ND	0.4
4-Chlorophenyl-phenylether	ND	0.6
Fluorene	ND	0.8
N-Nitrosodiphenylamine	ND	0.6
4-Bromophenyl-phenylether	ND	1.4
Hexachlorobenzene	ND	0.6
Phenanthrene	ND	0.5
Anthracene	ND	0.3
Di-n-butylphthalate	ND	0.5
Fluoranthene	ND	0.5
Pyrene	ND	0.6
Benzidine	ND	15
Butylbenzylphthalate	ND	0.8

Client ID: **MW-1**
Site: Rexam DSI

Lab Sample No: **237821**
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa2509.d

Matrix: WATER
Level: LOW
Sample Volume: 900 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 625

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
3,3'-Dichlorobenzidine	ND	5.3
Benzo(a)anthracene	ND	0.5
Chrysene	ND	0.7
bis(2-Ethylhexyl)phthalate	ND	2.2
Di-n-octylphthalate	ND	0.4
Benzo(b)fluoranthene	ND	0.4
Benzo(k)fluoranthene	ND	0.7
Benzo(a)pyrene	ND	0.3
Indeno(1,2,3-cd)pyrene	ND	0.5
Dibenz(a,h)anthracene	ND	0.3
Benzo(g,h,i)perylene	ND	0.5

Client ID: **MW-1**
Site: Rexam DSI

Lab Sample No: **237821**
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa2509.d

Matrix: WATER
Level: LOW
Sample Volume: 900 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 625

	COMPOUND NAME	RT	EST. CONC. ug/l	Q
1.	NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION | 0.0

Data File: /chem/BNAMS8.i/625/10-24-00/30oct00.b/aa2509.d
Report Date: 31-Oct-2000 08:59

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS8.i/625/10-24-00/30oct00.b/aa2509.d
Lab Smp Id: 237821 Client Smp ID: MW-1
Inj Date : 30-OCT-2000 21:34
Operator : BNAMS 1 Inst ID: BNAMS8.i
Smp Info : 237821;900;2;1
Misc Info : F104;PPBN+15;5891;140
Comment :
Method : /chem/BNAMS8.i/625/10-24-00/30oct00.b/BNA625b.m
Meth Date : 30-Oct-2000 12:03 zhang Quant Type: ISTD
Cal Date : 24-OCT-2000 17:30 Cal File: aa2381.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPBNb.sub
Target Version: 3.50

LE SF

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2.00000	Volume of final extract (mL)
Vo	900.00000	Volume of sample extracted (mL)

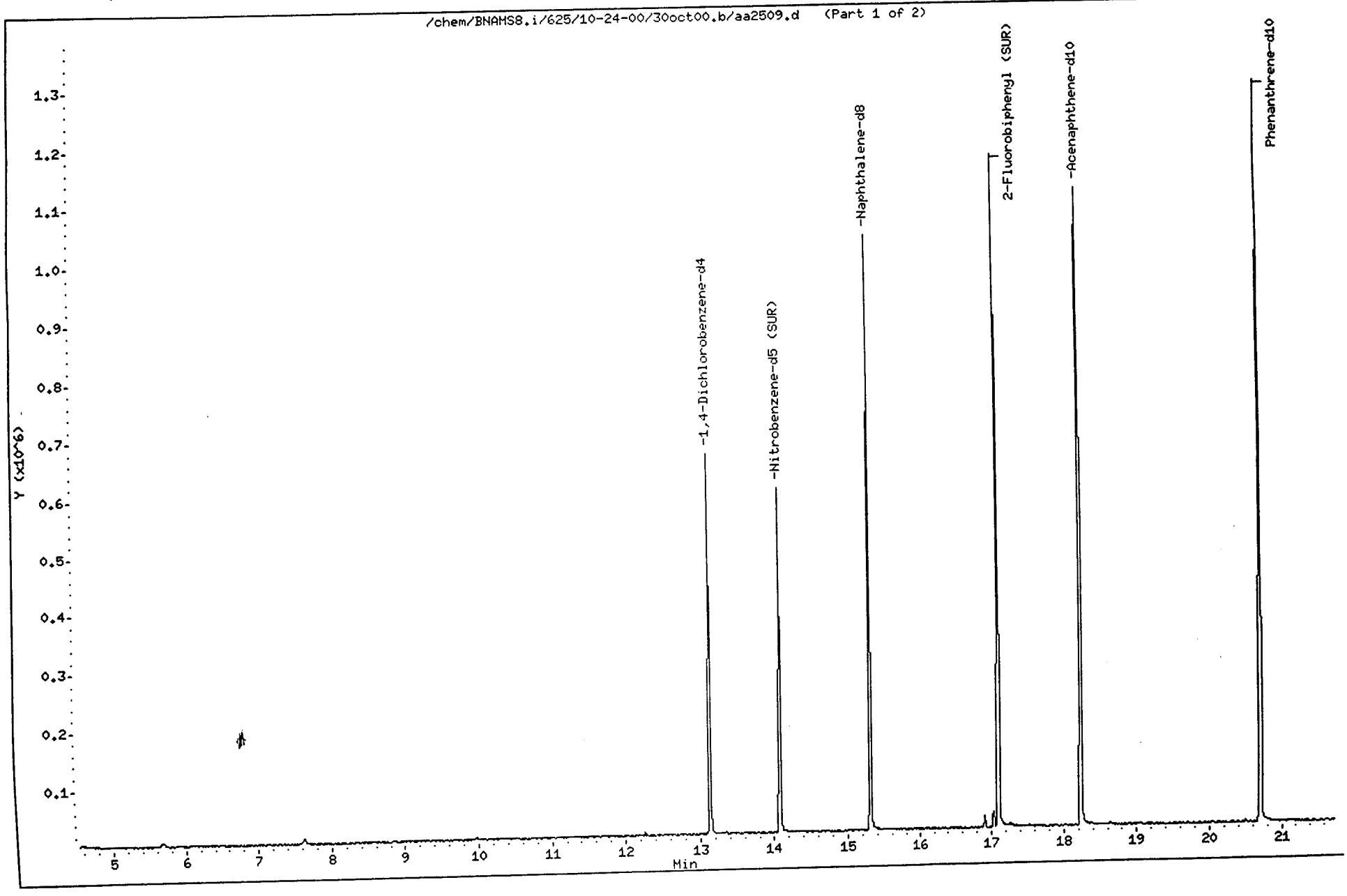
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
* 79 1,4-Dichlorobenzene-d4	152	13.135	13.143	(1.000)	143347	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	14.087	14.094	(0.920)	258149	41.2995	92
* 80 Naphthalene-d8	136	15.305	15.312	(1.000)	597862	40.0000	
$ 77 2-Fluorobiphenyl (SUR)	172	17.096	17.103	(0.937)	446789	43.1801	96
* 82 Acenaphthene-d10	164	18.242	18.249	(1.000)	368420	40.0000	
* 83 Phenanthrene-d10	188	20.708	20.715	(1.000)	666535	40.0000	
$ 78 Terphenyl-d14 (SUR)	244	23.328	23.335	(0.928)	591595	45.7546	100
* 81 Chrysene-d12	240	25.149	25.166	(1.000)	548615	40.0000	
* 84 Perylene-d12	264	28.812	28.850	(1.000)	527083	40.0000	

Data File: /chem/BNAMS8.i/625/10-24-00/30oct00.b/aa2509.d
Date : 30-OCT-2000 21:34
Client ID: MW-1
Sample Info: 237821;900;2;1
Purge Volume: 900.0
Column phase: DB-5

Instrument: BNAMS8.i

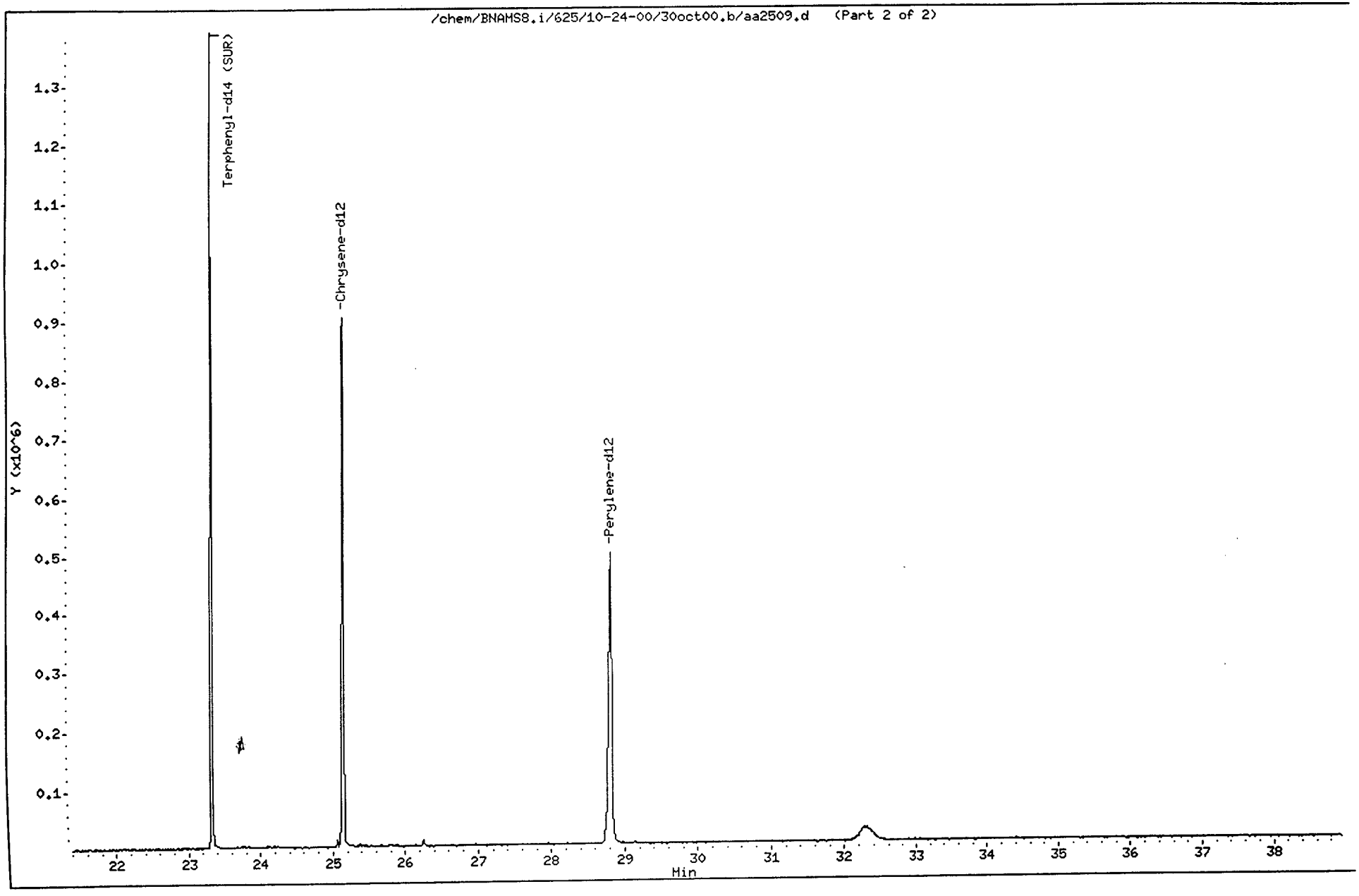
Operator: BNAMS 1
Column diameter: 0.53



Data File: /chem/BNAMS8.i/625/10-24-00/30oct00.b/aa2509.d
Date : 30-OCT-2000 21:34
Client ID: MW-1
Sample Info: 237821;900;2;1
Purge Volume: 900.0
Column phase: DB-5

Instrument: BNAMS8.i

Operator: BNAMS 1
Column diameter: 0.53



Client ID: PZ-2
Site: Rexam DSI

Lab Sample No: 237822
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa2510.d

Matrix: WATER
Level: LOW
Sample Volume: 900 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 625

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
N-Nitrosodimethylamine	ND	0.5
bis(2-Chloroethyl)ether	ND	1.2
1,3-Dichlorobenzene	ND	0.6
1,4-Dichlorobenzene	ND	0.7
1,2-Dichlorobenzene	ND	0.6
bis(2-chloroisopropyl)ether	ND	1.2
N-Nitroso-di-n-propylamine	ND	0.9
Hexachloroethane	ND	0.8
Nitrobenzene	ND	0.9
Isophorone	ND	1.0
bis(2-Chloroethoxy)methane	ND	1.0
1,2,4-Trichlorobenzene	ND	0.6
Naphthalene	ND	0.9
Hexachlorobutadiene	ND	0.6
Hexachlorocyclopentadiene	ND	1.0
2-Chloronaphthalene	ND	0.9
Dimethylphthalate	ND	0.5
Acenaphthylene	ND	0.5
2,6-Dinitrotoluene	ND	0.8
Acenaphthene	ND	0.6
2,4-Dinitrotoluene	ND	0.6
Diethylphthalate	ND	0.4
4-Chlorophenyl-phenylether	ND	0.6
Fluorene	ND	0.8
N-Nitrosodiphenylamine	ND	0.6
4-Bromophenyl-phenylether	ND	1.4
Hexachlorobenzene	ND	0.6
Phenanthrene	ND	0.5
Anthracene	ND	0.3
Di-n-butylphthalate	ND	0.5
Fluoranthene	ND	0.5
Pyrene	ND	0.6
Benzidine	ND	15
Butylbenzylphthalate	ND	0.8

Client ID: **PZ-2**
Site: Rexam DSI

Lab Sample No: **237822**
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa2510.d

Matrix: WATER
Level: LOW
Sample Volume: 900 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 625

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
3,3'-Dichlorobenzidine	ND	5.3
Benzo(a)anthracene	ND	0.5
Chrysene	ND	0.7
bis(2-Ethylhexyl)phthalate	ND	2.2
Di-n-octylphthalate	ND	0.4
Benzo(b)fluoranthene	ND	0.4
Benzo(k)fluoranthene	ND	0.7
Benzo(a)pyrene	ND	0.3
Indeno(1,2,3-cd)pyrene	ND	0.5
Dibenz(a,h)anthracene	ND	0.3
Benzo(g,h,i)perylene	ND	0.5

Client ID: PZ-2
Site: Rexam DSI

Lab Sample No: 237822
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa2510.d

Matrix: WATER
Level: LOW
Sample Volume: 900 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 625

	COMPOUND NAME	RT	EST. CONC. ug/l	Q
1.	NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
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22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION 0.0

Data File: /chem/BNAMS8.i/625/10-24-00/30oct00.b/aa2510.d
Report Date: 31-Oct-2000 09:31

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS8.i/625/10-24-00/30oct00.b/aa2510.d
Lab Smp Id: 237822 Client Smp ID: PZ-2
Inj Date : 31-OCT-2000 08:32
Operator : BNAMS 1 Inst ID: BNAMS8.i
Smp Info : 237822;900;2;1
Misc Info : F104;PPBN+15;5891;140
Comment :
Method : /chem/BNAMS8.i/625/10-24-00/30oct00.b/BNA625b.m
Meth Date : 30-Oct-2000 12:03 zhang Quant Type: ISTD
Cal Date : 24-OCT-2000 17:30 Cal File: aa2381.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPBNb.sub
Target Version: 3.50
Processing Host: hpd1

LL JV

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2.00000	Volume of final extract (mL)
Vo	900.00000	Volume of sample extracted (mL)

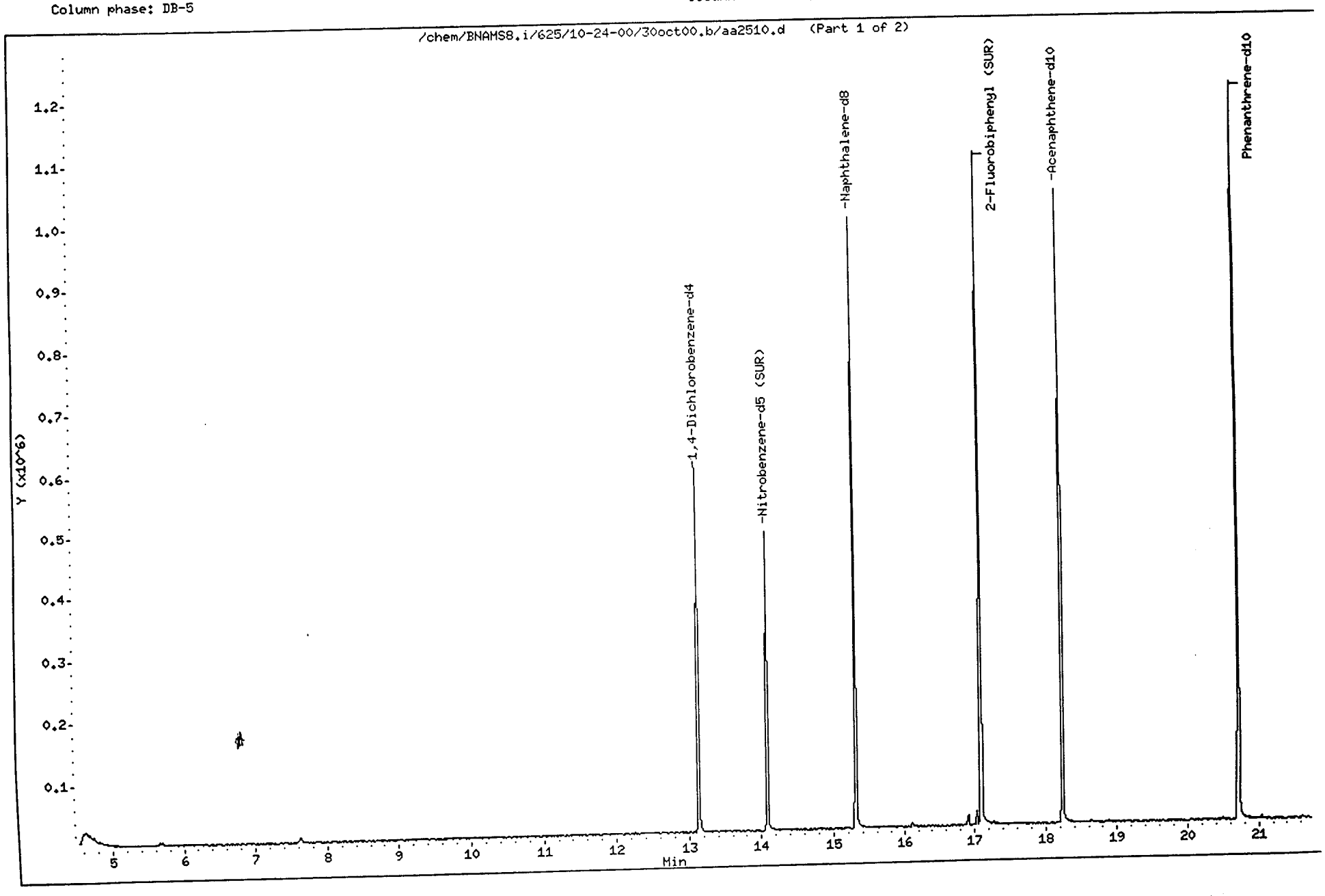
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	
* 79 1,4-Dichlorobenzene-d4	152	13.139	13.143	(1.000)	144479	40.0000		
$ 76 Nitrobenzene-d5 (SUR)	82	14.080	14.094	(0.920)	232833	38.0177		84
* 80 Naphthalene-d8	136	15.308	15.312	(1.000)	585779	40.0000		
$ 77 2-Fluorobiphenyl (SUR)	172	17.099	17.103	(0.938)	402503	40.6282		90
* 82 Acenaphthene-d10	164	18.235	18.249	(1.000)	352749	40.0000		
* 83 Phenanthrene-d10	188	20.711	20.715	(1.000)	644426	40.0000		
$ 78 Terphenyl-d14 (SUR)	244	23.331	23.335	(0.928)	556604	43.1435		96
* 81 Chrysene-d12	240	25.142	25.166	(1.000)	547405	40.0000		
* 84 Perylene-d12	264	28.816	28.850	(1.000)	489199	40.0000		

Data File: /chem/BNAMS8.i/625/10-24-00/30oct00.b/aa2510.d
Date : 31-OCT-2000 08:32
Client ID: PZ-2
Sample Info: 237822;900;2;1
Purge Volume: 900.0
Column phase: DB-5

Instrument: BNAMS8.i

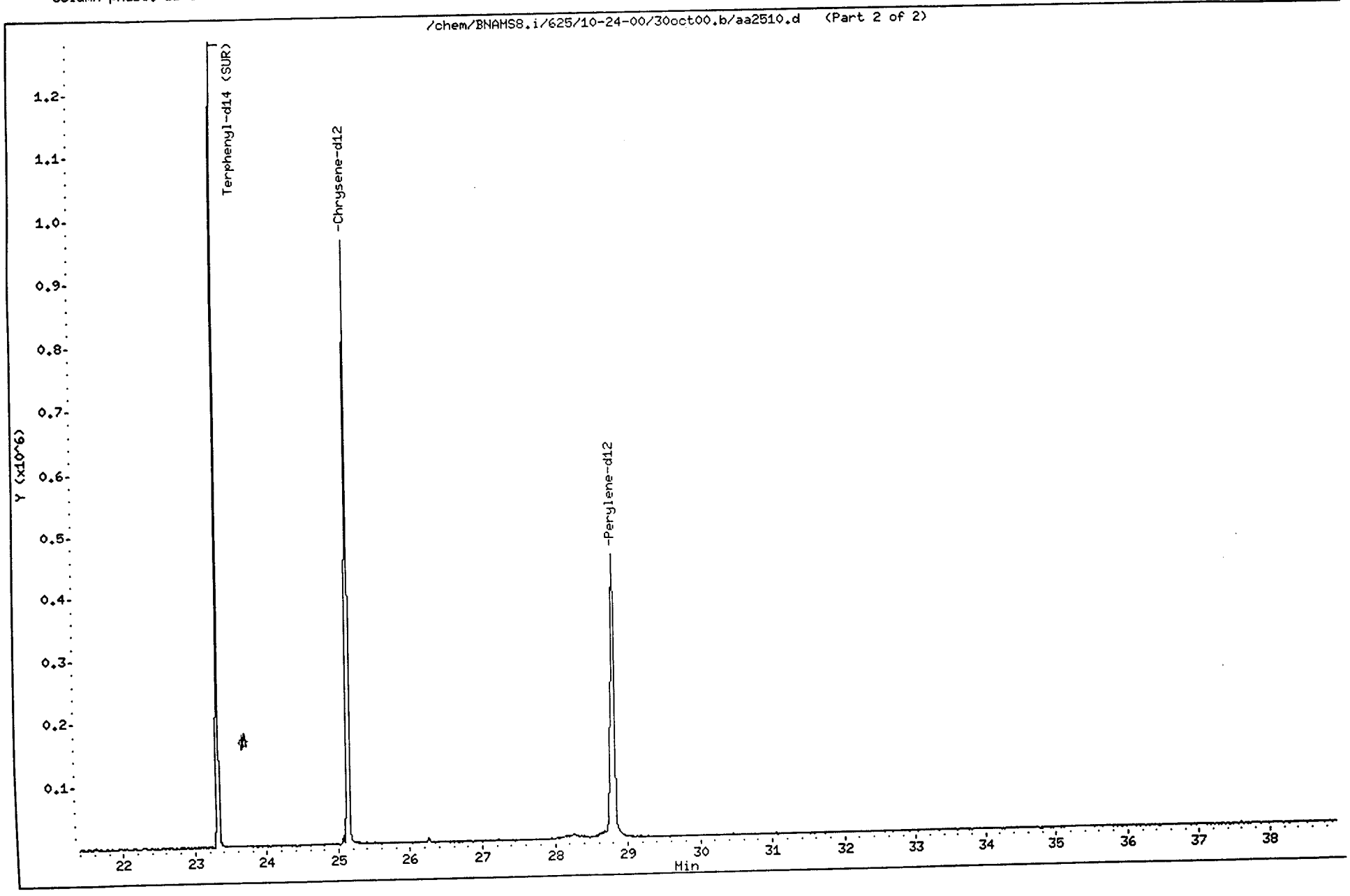
Operator: BNAMS 1
Column diameter: 0.53



Data File: /chem/BNAMS8.i/625/10-24-00/30oct00.b/aa2510.d
Date : 31-OCT-2000 08:32
Client ID: PZ-2
Sample Info: 237822;900;2;1
Purge Volume: 900.0
Column phase: DB-5

Instrument: BNAMS8.i
Operator: BNAMS 1
Column diameter: 0.53

708



Client ID: **Field_Blank-1025**
Site: Rexam DSI

Lab Sample No: **237824**
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa2513.d

Matrix: WATER
Level: LOW
Sample Volume: 750 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 625

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
N-Nitrosodimethylamine	ND	0.6
bis(2-Chloroethyl)ether	ND	1.5
1,3-Dichlorobenzene	ND	0.8
1,4-Dichlorobenzene	ND	0.8
1,2-Dichlorobenzene	ND	0.7
bis(2-chloroisopropyl)ether	ND	1.4
N-Nitroso-di-n-propylamine	ND	1.1
Hexachloroethane	ND	0.9
Nitrobenzene	ND	1.1
Isophorone	ND	1.2
bis(2-Chloroethoxy)methane	ND	1.2
1,2,4-Trichlorobenzene	ND	0.8
Naphthalene	ND	1.0
Hexachlorobutadiene	ND	0.8
Hexachlorocyclopentadiene	ND	1.2
2-Chloronaphthalene	ND	1.0
Dimethylphthalate	ND	0.6
Acenaphthylene	ND	0.7
2,6-Dinitrotoluene	ND	0.9
Acenaphthene	ND	0.8
2,4-Dinitrotoluene	ND	0.8
Diethylphthalate	ND	0.5
4-Chlorophenyl-phenylether	ND	0.7
Fluorene	ND	1.0
N-Nitrosodiphenylamine	ND	0.7
4-Bromophenyl-phenylether	ND	1.7
Hexachlorobenzene	ND	0.7
Phenanthrene	ND	0.6
Anthracene	ND	0.4
Di-n-butylphthalate	ND	0.7
Fluoranthene	ND	0.6
Pyrene	ND	0.7
Benzidine	ND	18
Butylbenzylphthalate	ND	0.9

Client ID: **Field_Blank-1025**
Site: Rexam DSI

Lab Sample No: **237824**
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa2513.d

Matrix: WATER
Level: LOW
Sample Volume: 750 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 625

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
3,3'-Dichlorobenzidine	ND	6.3
Benzo(a)anthracene	ND	0.5
Chrysene	ND	0.9
bis(2-Ethylhexyl)phthalate	ND	2.6
Di-n-octylphthalate	ND	0.4
Benzo(b)fluoranthene	ND	0.5
Benzo(k)fluoranthene	ND	0.9
Benzo(a)pyrene	ND	0.3
Indeno(1,2,3-cd)pyrene	ND	0.7
Dibenz(a,h)anthracene	ND	0.4
Benzo(g,h,i)perylene	ND	0.6

Client ID: Field_Blank-1025
Site: Rexam DSI

Lab Sample No: 237824
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa2513.d

Matrix: WATER
Level: LOW
Sample Volume: 750 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 625

	COMPOUND NAME	RT	EST. CONC. ug/l	Q
1.	NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION	0.0

Data File: /chem/BNAMS8.i/625/10-24-00/31oct00.b/aa2513.d
Report Date: 31-Oct-2000 12:14

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS8.i/625/10-24-00/31oct00.b/aa2513.d
Lab Smp Id: 237824 Client Smp ID: Field_Blank-1025
Inj Date : 31-OCT-2000 10:38
Operator : BNAMS 1 Inst ID: BNAMS8.i
Smp Info : 237824;750;2;1
Misc Info : F104;PPBN+15;5891;140
Comment :
Method : /chem/BNAMS8.i/625/10-24-00/31oct00.b/BNA625b.m
Meth Date : 31-Oct-2000 10:53 zhang Quant Type: ISTD
Cal Date : 24-OCT-2000 17:30 Cal File: aa2381.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPBNb.sub
Target Version: 3.50
Processing Host: hpd1

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2.00000	Volume of final extract (mL)
Vo	750.00000	Volume of sample extracted (mL)

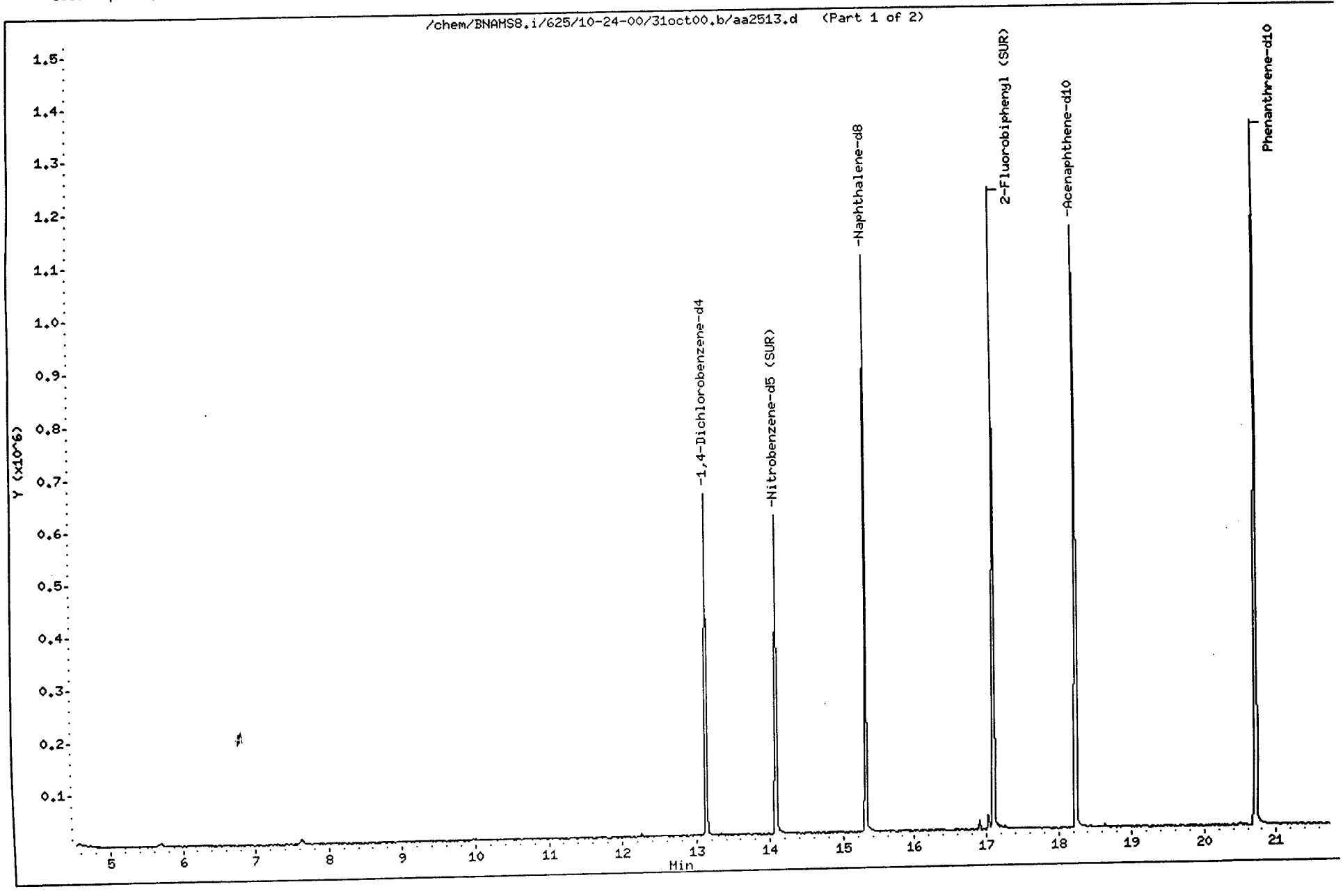
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
* 79 1,4-Dichlorobenzene-d4	152	13.138	13.133	(1.000)	158683	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	14.090	14.095	(0.920)	288115	42.2126	110
* 80 Naphthalene-d8	136	15.308	15.313	(1.000)	652829	40.0000	
$ 77 2-Fluorobiphenyl (SUR)	172	17.098	17.104	(0.938)	477997	43.6694	120
* 82 Acenaphthene-d10	164	18.234	18.250	(1.000)	389737	40.0000	
* 83 Phenanthrene-d10	188	20.711	20.716	(1.000)	721249	40.0000	
$ 78 Terphenyl-d14 (SUR)	244	23.330	23.336	(0.928)	644379	45.6574	120
* 81 Chrysene-d12	240	25.142	25.168	(1.000)	598837	40.0000	
* 84 Perylene-d12	264	28.815	28.841	(1.000)	547431	40.0000	

Data File: /chem/BNAMS8.i/625/10-24-00/31oct00.b/aa2513.d
Date : 31-OCT-2000 10:38
Client ID: Field_Blank-1025
Sample Info: 237824;750;2;1
Purge Volume: 750.0
Column phase: DB-5

Instrument: BNAMS8.i

Operator: BNAMS 1
Column diameter: 0.53

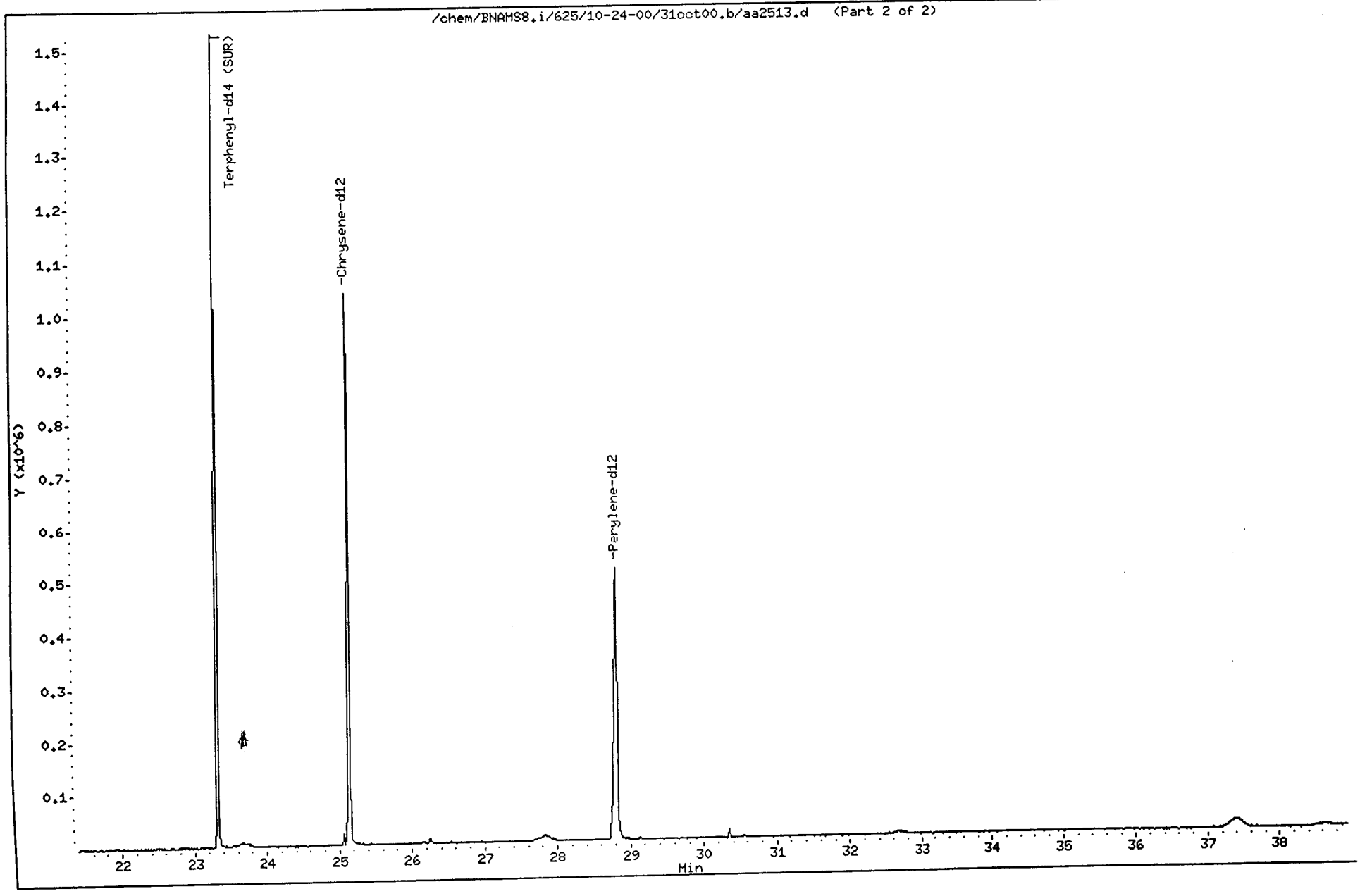


Data File: /chem/BNAMS8.i/625/10-24-00/31oct00.b/aa2513.d
Date : 31-OCT-2000 10:38
Client ID: Field_Blank-1025
Sample Info: 237824;750;2;1
Purge Volume: 750.0
Column phase: DB-5

Instrument: BNAMS8.i

Operator: BNAMS 1
Column diameter: 0.53

714



Client ID: **RC-1_2nd_Flr**
Site: Rexam DSI

Lab Sample No: **237825**
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13266.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 5.0
% Moisture: 0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
N-Nitrosodimethylamine	ND	1700
bis(2-Chloroethyl)ether	ND	170
1,3-Dichlorobenzene	ND	1700
1,4-Dichlorobenzene	ND	1700
1,2-Dichlorobenzene	ND	1700
bis(2-chloroisopropyl)ether	ND	1700
N-Nitroso-di-n-propylamine	ND	170
Hexachloroethane	ND	170
Nitrobenzene	ND	170
Isophorone	ND	1700
bis(2-Chloroethoxy)methane	ND	1700
1,2,4-Trichlorobenzene	ND	170
Naphthalene	ND	1700
Hexachlorobutadiene	ND	330
Hexachlorocyclopentadiene	ND	1700
2-Chloronaphthalene	ND	1700
Dimethylphthalate	ND	1700
Acenaphthylene	ND	1700
2,6-Dinitrotoluene	ND	330
Acenaphthene	ND	1700
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	1700
4-Chlorophenyl-phenylether	ND	1700
Fluorene	ND	1700
N-Nitrosodiphenylamine	190 J	1700
4-Bromophenyl-phenylether	ND	1700
Hexachlorobenzene	ND	170
Phenanthrene	120 J	1700
Anthracene	ND	1700
Di-n-butylphthalate	ND	1700
Fluoranthene	280 J	1700
Pyrene	420 J	1700
Benzidine	ND	6700
Butylbenzylphthalate	ND	1700

Client ID: **RC-1_2nd_Flr**
Site: Rexam DSI

Lab Sample No: **237825**
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3266.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 5.0
% Moisture: 0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
3,3'-Dichlorobenzidine	ND	3300
Benzo(a)anthracene	180	170
Chrysene	2000	1700
bis(2-Ethylhexyl)phthalate	980 J	1700
Di-n-octylphthalate	ND	1700
Benzo(b)fluoranthene	260	170
Benzo(k)fluoranthene	44 J	170
Benzo(a)pyrene	310	170
Indeno(1,2,3-cd)pyrene	ND	170
Dibenz(a,h)anthracene	ND	170
Benzo(g,h,i)perylene	ND	1700

Client ID: **RC-1_2nd_Flr**
Site: Rexam DSI

Lab Sample No: **237825**
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3266.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 5.0
% Moisture: 0.2

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	Unknown Alkane	21.91	10000	
2.	Unknown Alkane	22.38	5600	
3.	Unknown Alkane	22.56	14000	
4.	Unknown Alkane	23.52	11000	
5.	Unknown Alkane	23.78	18000	
6.	Unknown Alkane	23.99	12000	
7.	Unknown Alkane	24.15	17000	
8.	Unknown Alkane	24.36	19000	
9.	Unknown Alkane	24.55	15000	
10.	Unknown Alkane	24.90	11000	
11.	Unknown Alkane	25.15	17000	
12.	Unknown Alkane	25.60	15000	
13.	Unknown Alkane	25.83	16000	
14.	Unknown Alkane	26.33	10000	
15.	Unknown Alkane	26.61	19000	
16.				
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30.				

TOTAL ESTIMATED CONCENTRATION 209600

Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/l3266.d
Report Date: 31-Oct-2000 11:07

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS7.i/8270/10-27-00/31oct00.b/l3266.d
Lab Smp Id: 237825 Client Smp ID: RC-1_2nd_Flr
Inj Date : 31-OCT-2000 07:01
Operator : BNAMS 4 Inst ID: BNAMS7.i
Smp Info : 237825;30;2;5;0.2
Misc Info : F104;PPBN+15;6924;114
Comment :
Method : /chem/BNAMS7.i/8270/10-27-00/31oct00.b/8270C1.m
Meth Date : 31-Oct-2000 06:58 acierno Quant Type: ISTD
Cal Date : 27-OCT-2000 12:29 Cal File: l3224.d
Als bottle: 2
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: PPBNb.sub
Target Version: 3.50
Processing Host: hpd1

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	2.00000	Volume of final extract (ml)
Ws	30.00000	Weight of sample extracted (g)
M	0.20000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
* 79 1,4-Dichlorobenzene-d4	152	13.174	13.180	(1.000)	320744	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	14.115	14.142	(0.919)	125122	9.29788	3100
* 80 Naphthalene-d8	136	15.352	15.358	(1.000)	1300977	40.0000	
$ 77 2-Fluorobiphenyl (SUR)	172	17.142	17.158	(0.937)	180751	9.01604	3000
* 82 Acenaphthene-d10	164	18.297	18.303	(1.000)	737402	40.0000	
49 N-Nitrosodiphenylamine	169	19.371	19.397	(0.933)	8471	0.58020	190(a)
* 83 Phenanthrene-d10	188	20.772	20.788	(1.000)	1235970	40.0000	
52 Phenanthrene	178	20.813	20.829	(1.002)	10697	0.35359	120(a)
56 Fluoranthene	202	22.796	22.802	(1.097)	26740	0.82922	280(a)
57 Pyrene	202	23.185	23.191	(0.917)	36459	1.26937	420(a)
$ 78 Terphenyl-d14 (SUR)	244	23.410	23.405	(0.926)	250701	11.3759	3800
63 bis(2-Ethylhexyl)phthalate	149	25.209	25.174	(0.997)	81438	2.94206	980(a)
61 Benzo(a)anthracene	228	25.271	25.236	(0.999)	14886	0.52683	180

Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/l3266.d
Report Date: 31-Oct-2000 11:07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 81 Chrysene-d12	240	25.291	25.266	(1.000)	1084901	40.0000	
62 Chrysene	228	25.342	25.328	(1.002)	160039	6.10080	2000
65 Benzo(b)fluoranthene	252	27.919	27.833	(0.961)	18336	0.78264	260 (M)
66 Benzo(k)fluoranthene	252	27.991	27.925	(0.964)	3670	0.13139	44 (aM)
67 Benzo(a)pyrene	252	28.788	28.866	(0.986)	21627	0.93228	310 (M)
* 84 Perylene-d12	264	29.187	29.050	(1.000)	900084	40.0000	(H)

QC Flag Legend

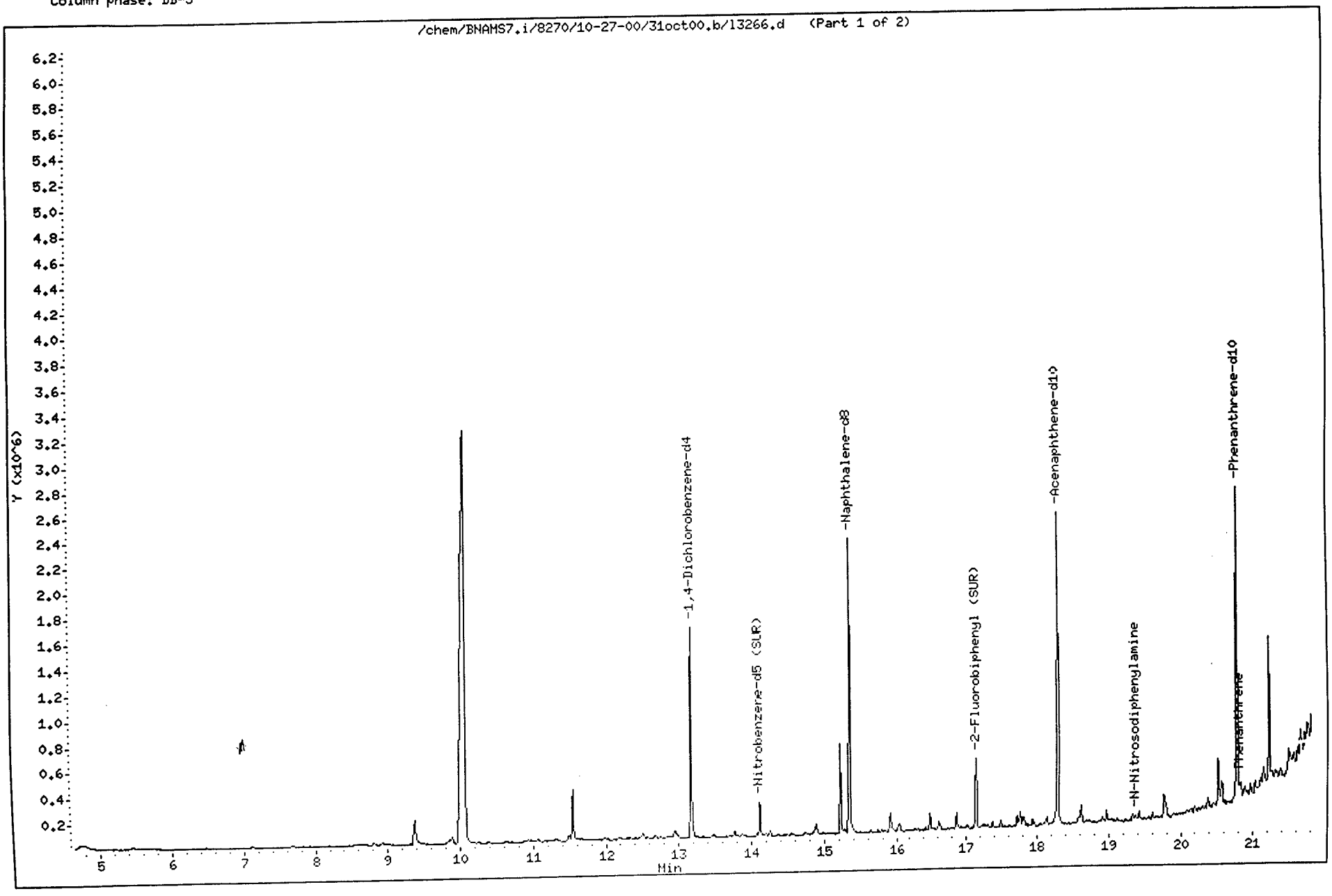
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13266.d
Date : 31-OCT-2000 07:01
Client ID: RC-1_2nd_Flr
Sample Info: 237825;30;2;5;0.2

Instrument: BNAMS7.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5

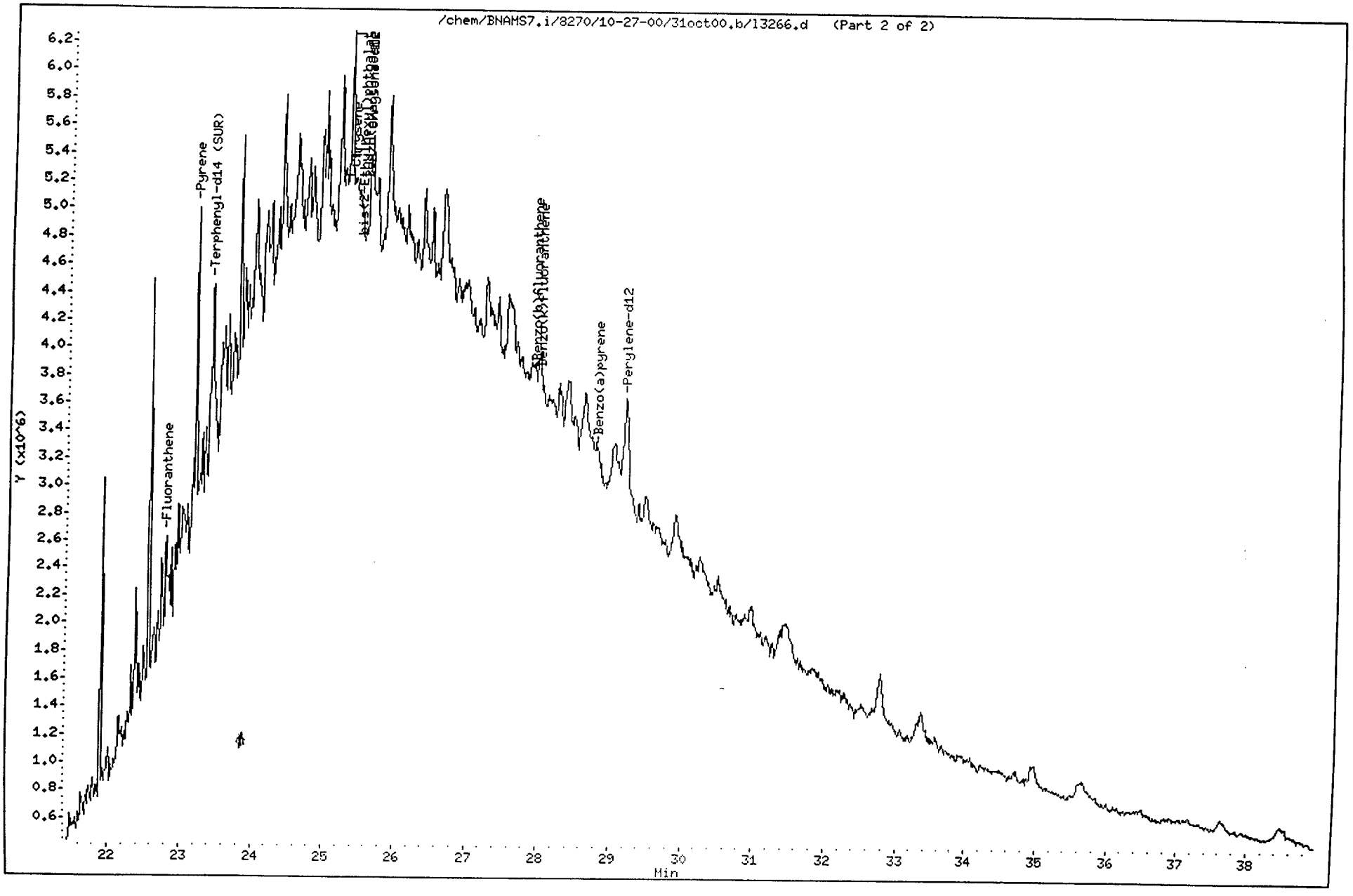


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Date : 31-OCT-2000 07:01
Client ID: RC-1_2nd_Flr
Sample Info: 237825;30;2;5;0.2

Instrument: BNAMS7.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13266.d

Date : 31-OCT-2000 07:01

Client ID: RC-1_2nd_Flr

Instrument: BNAMS7.i

Sample Info: 237825;30;2;5;0.2

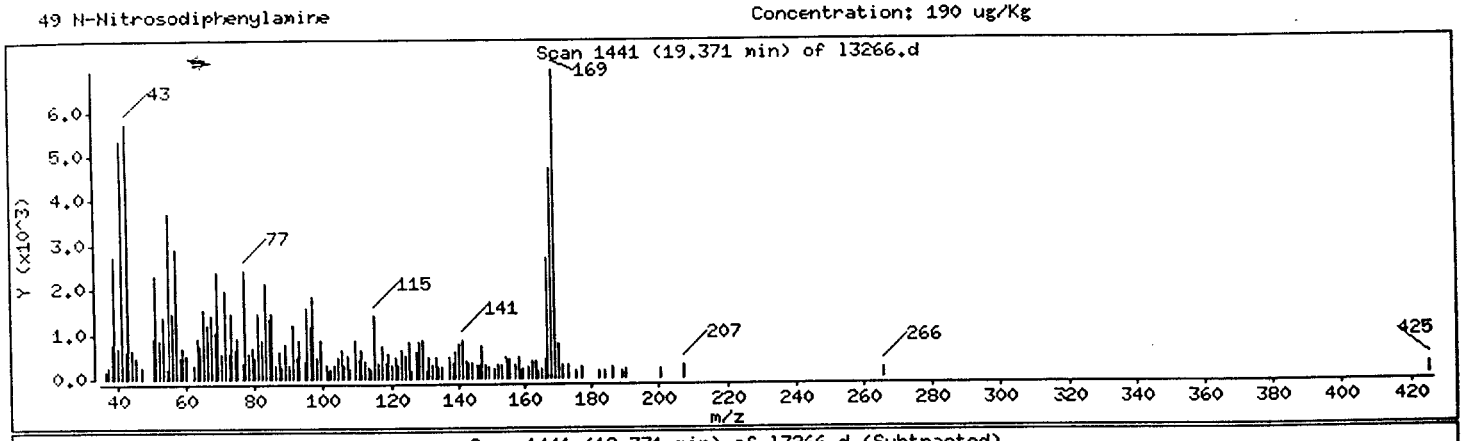
Operator: BNAMS 4

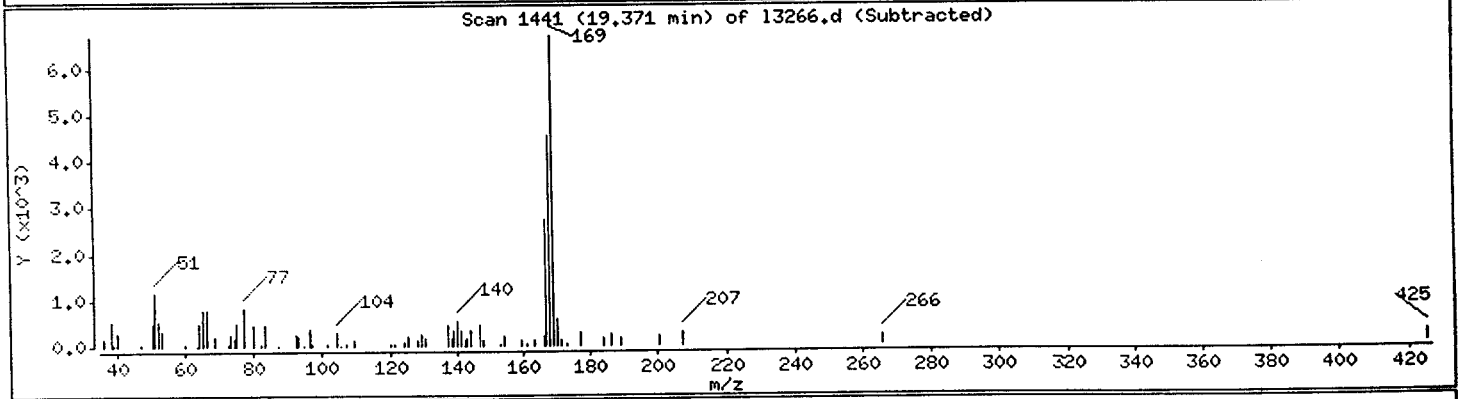
Column phase: DB-5

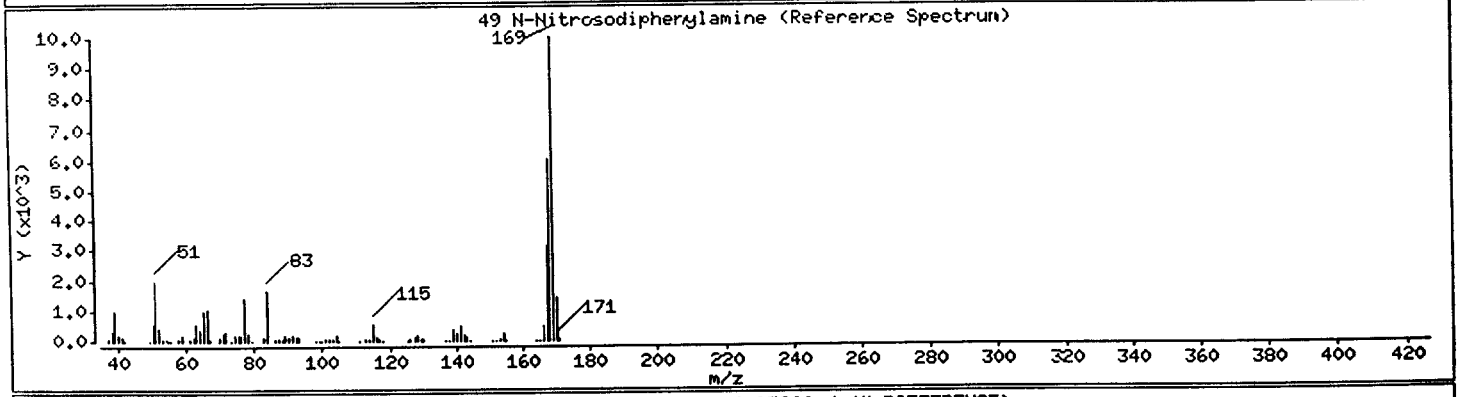
Column diameter: 0.25

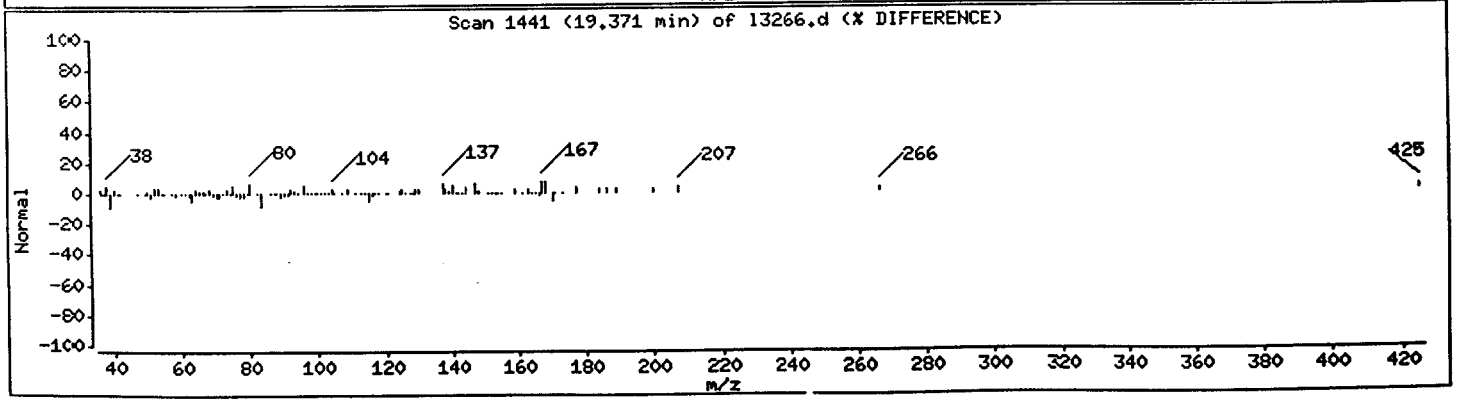
49 N-Nitrosodiphenylamine

Concentration: 190 ug/Kg









Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13266.d

Date : 31-OCT-2000 07:01

Client ID: RC-1_2nd_Flr

Instrument: BNAMS7.i

Sample Info: 237825;30;2;5;0.2

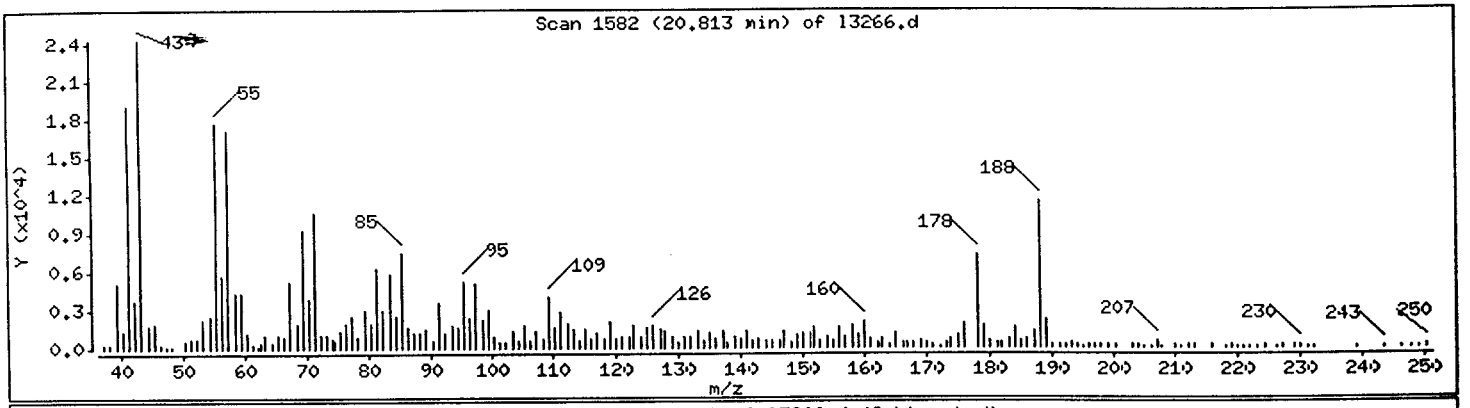
Operator: BNAMS 4

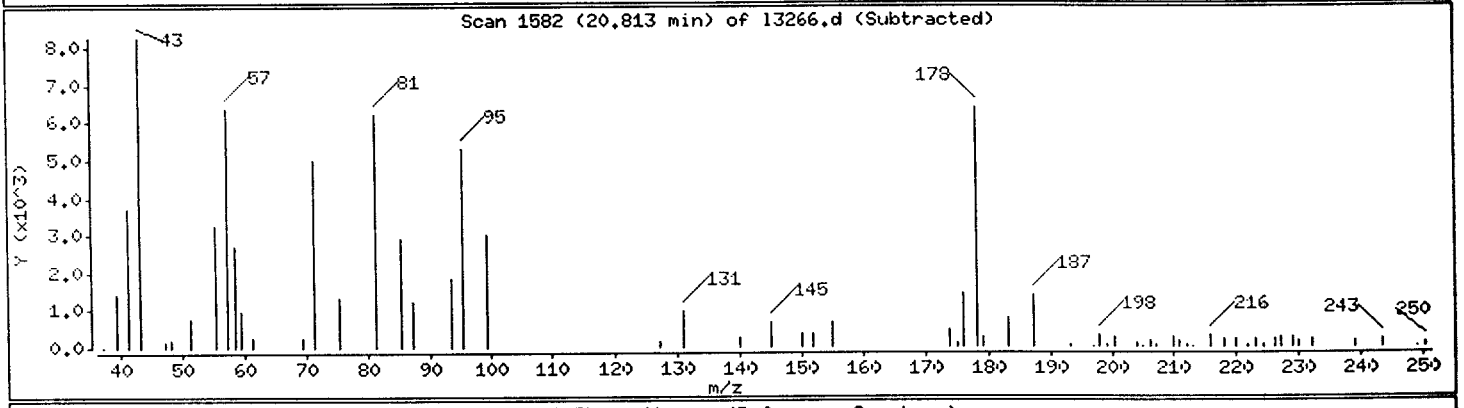
Column phase: DB-5

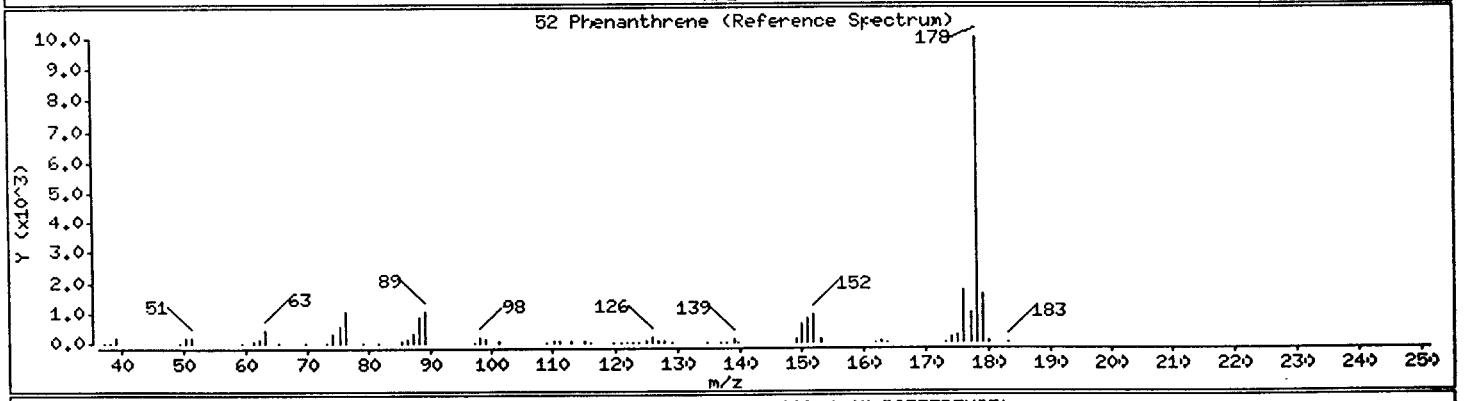
Column diameter: 0.25

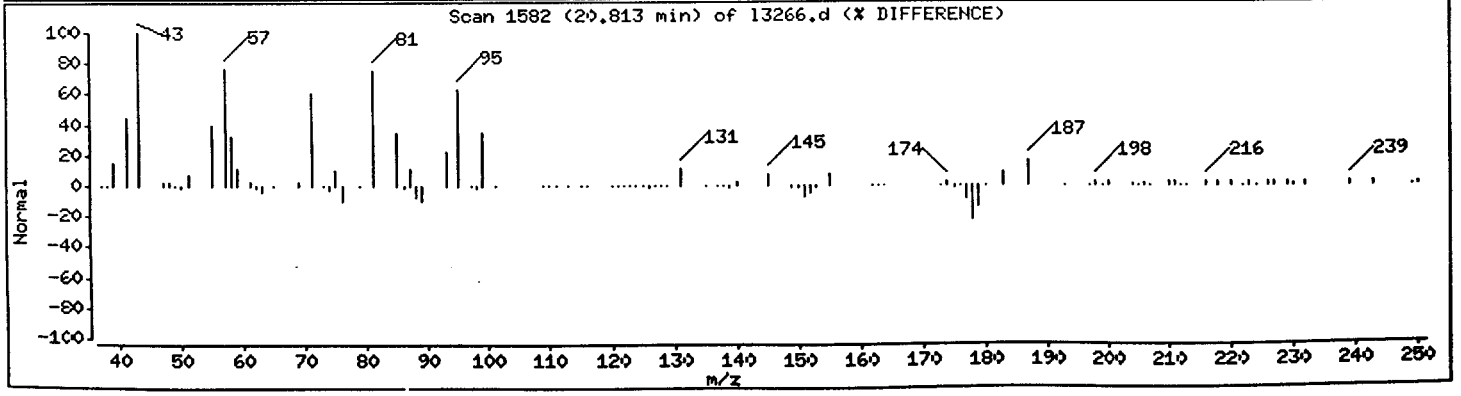
52 Phenanthrene

Concentration: 120 ug/Kg









Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13266.d

Date : 31-OCT-2000 07:01

Client ID: RC-1_2nd_Flr

Instrument: BNAMS7.i

Sample Info: 237825;30;2;5;0.2

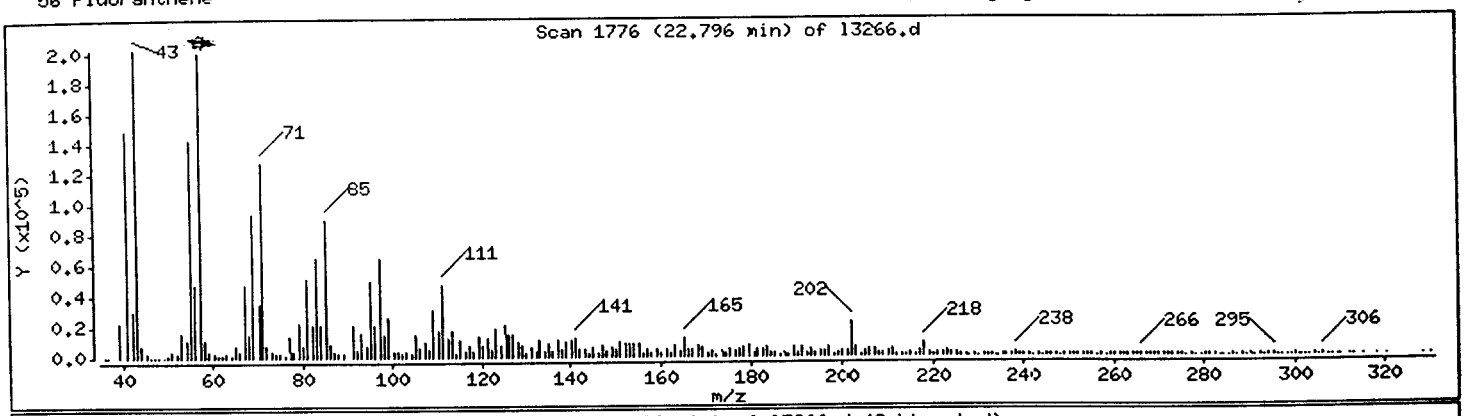
Operator: BNAMS 4

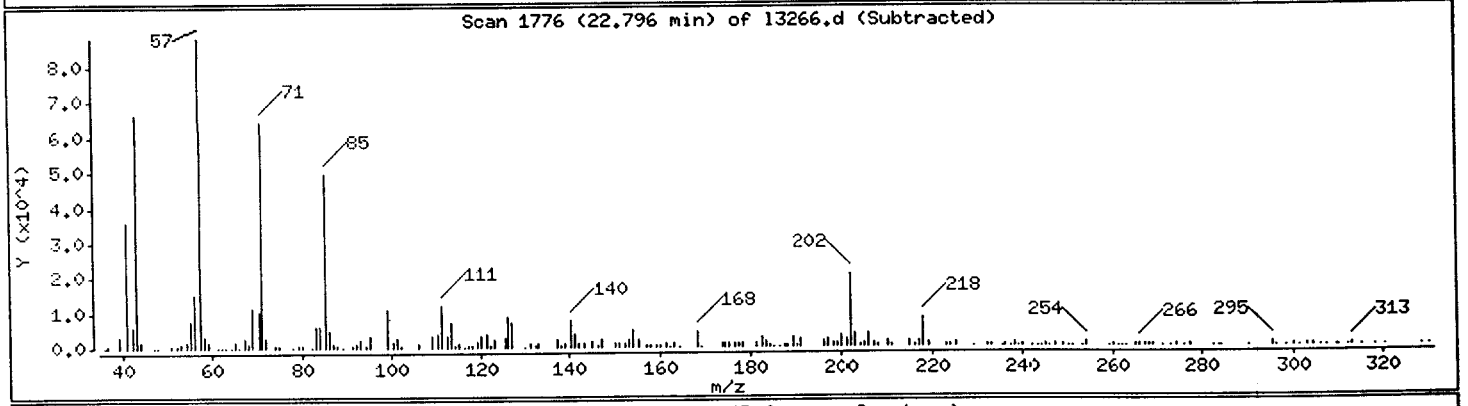
Column phase: DB-5

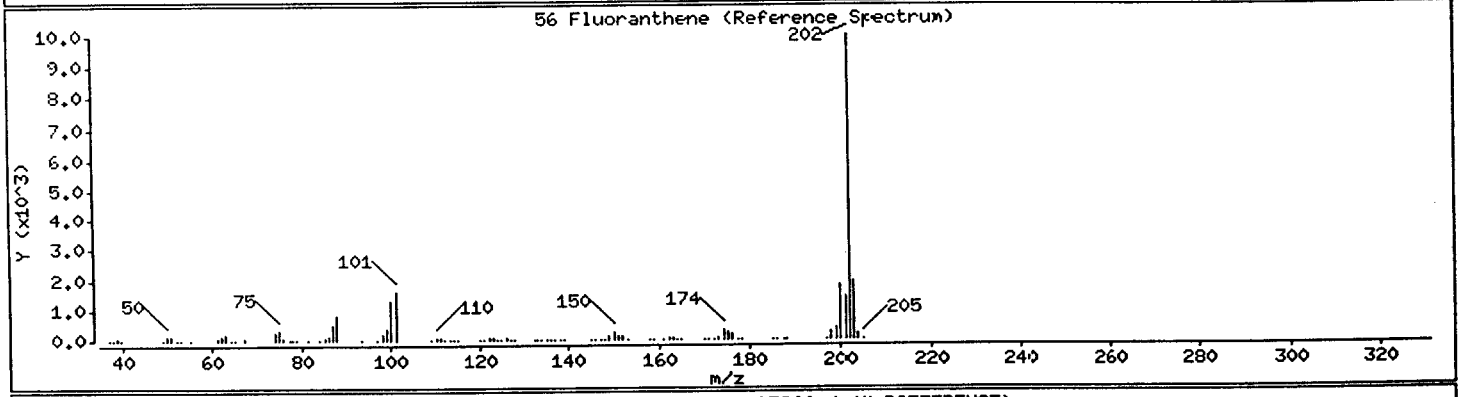
Column diameter: 0.25

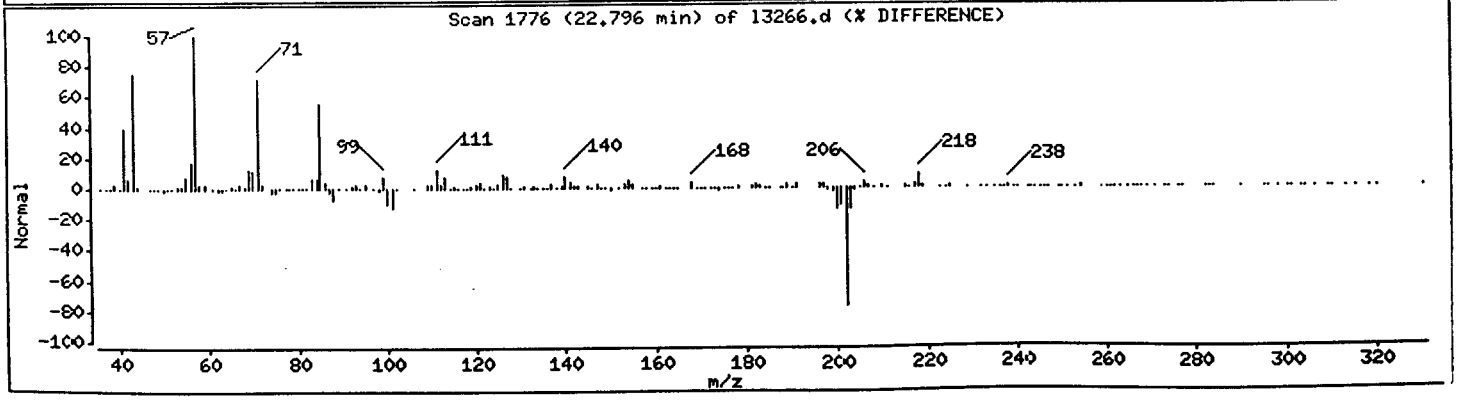
56 Fluoranthene

Concentration: 280 ug/Kg









Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13266.d

Date : 31-OCT-2000 07:01

Client ID: RC-1_2nd_Flr

Instrument: BNAMS7.i

Sample Info: 237825;30;2;5;0.2

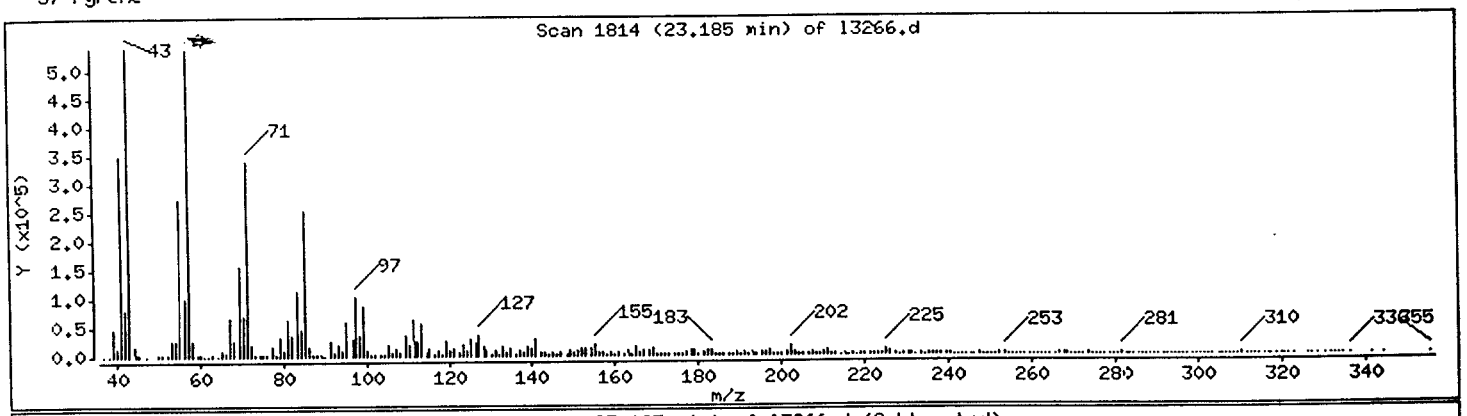
Operator: BNAMS 4

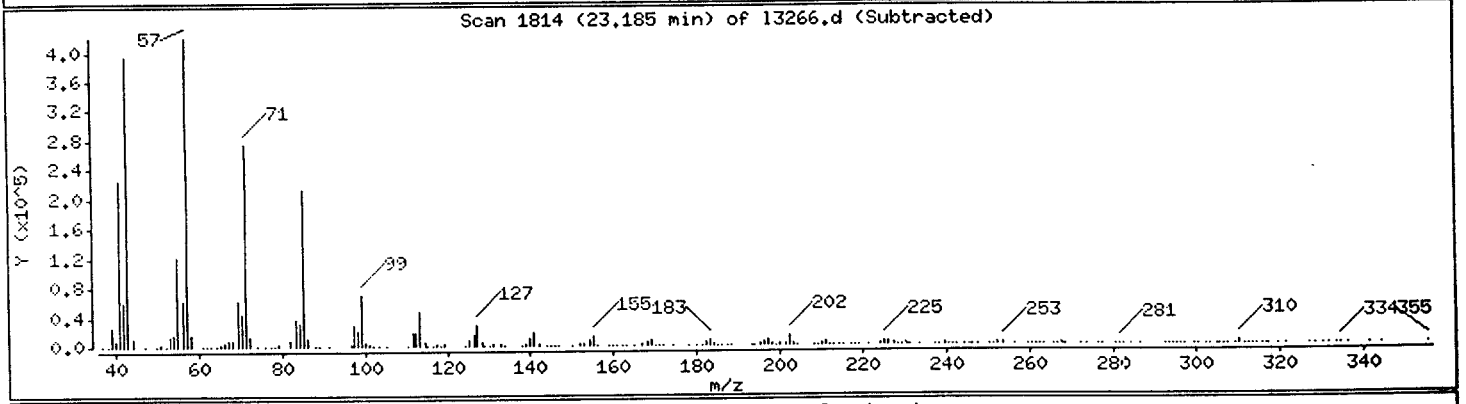
Column phase: DB-5

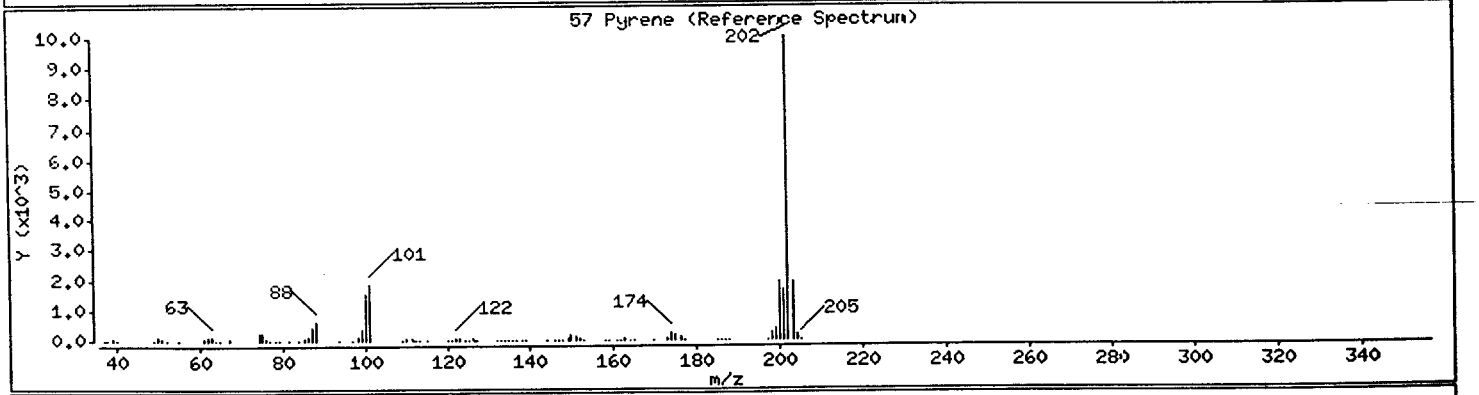
Column diameter: 0.25

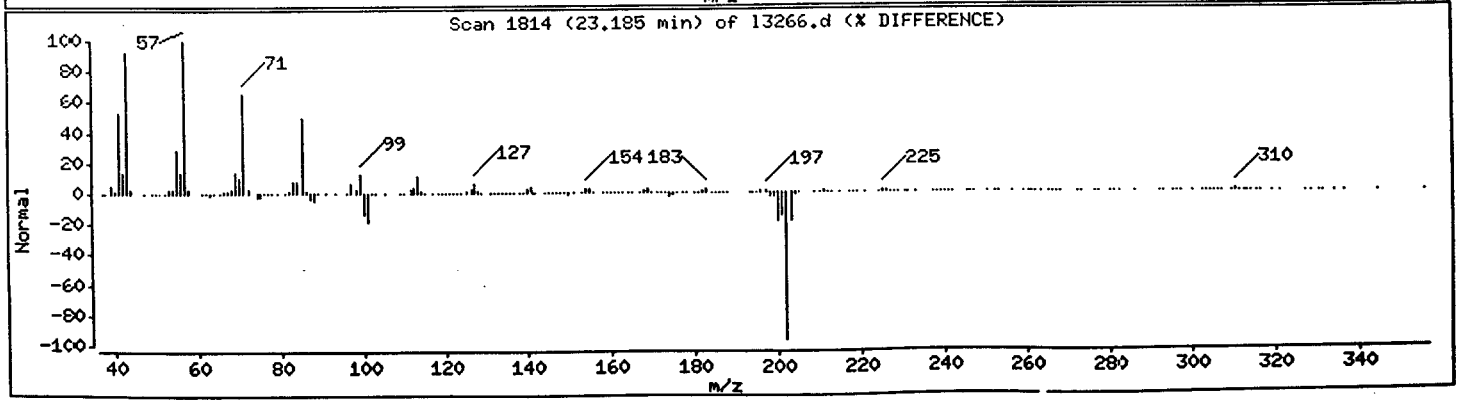
57 Pyrene

Concentration: 420 ug/Kg









Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13266.d

Date : 31-OCT-2000 07:01

Client ID: RC-1_2nd_Flr

Instrument: BNAMS7.i

Sample Info: 237825;30;2;5;0.2

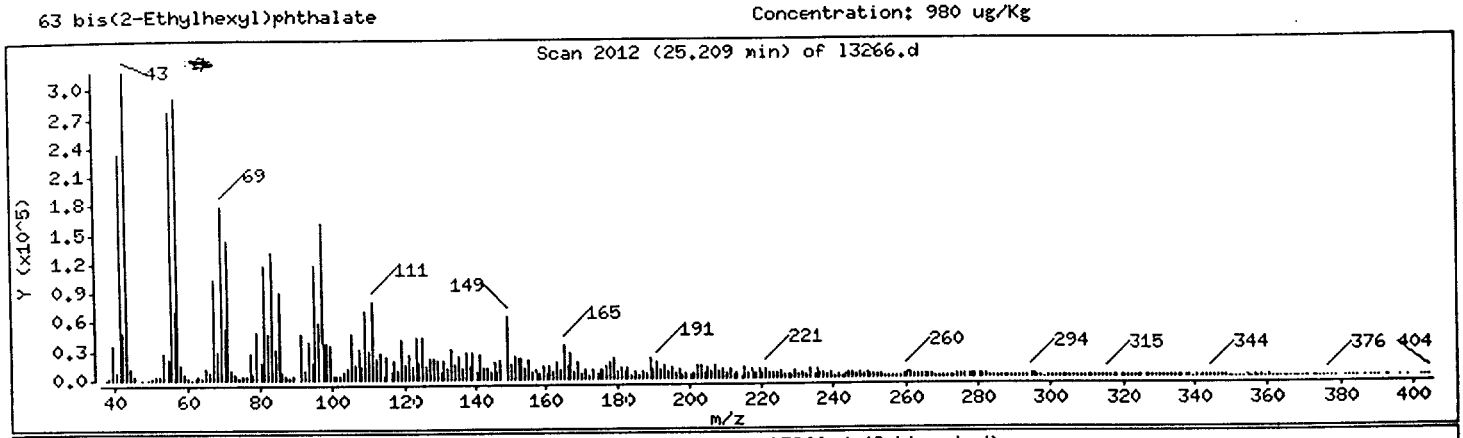
Operator: BNAMS 4

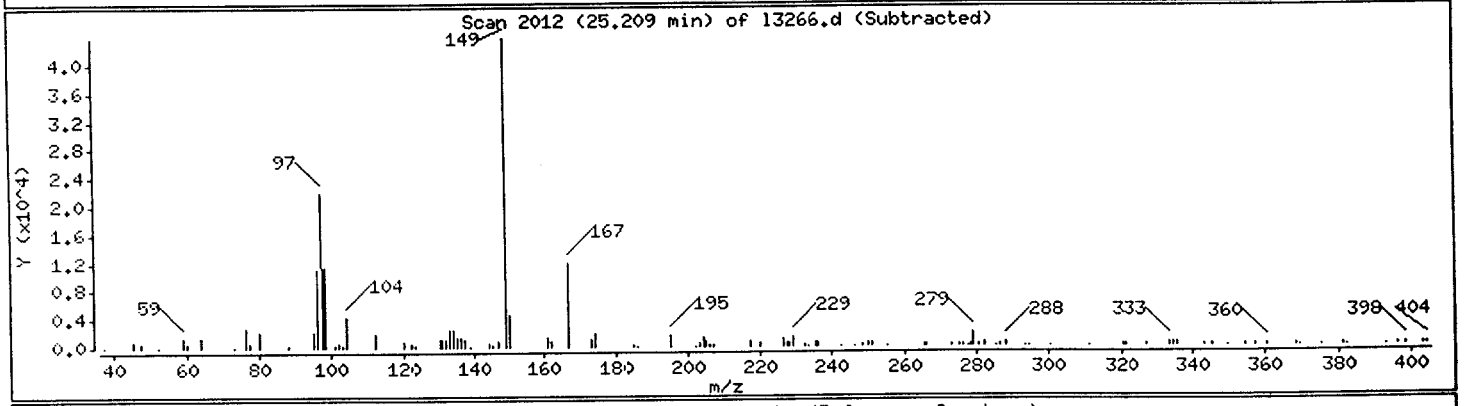
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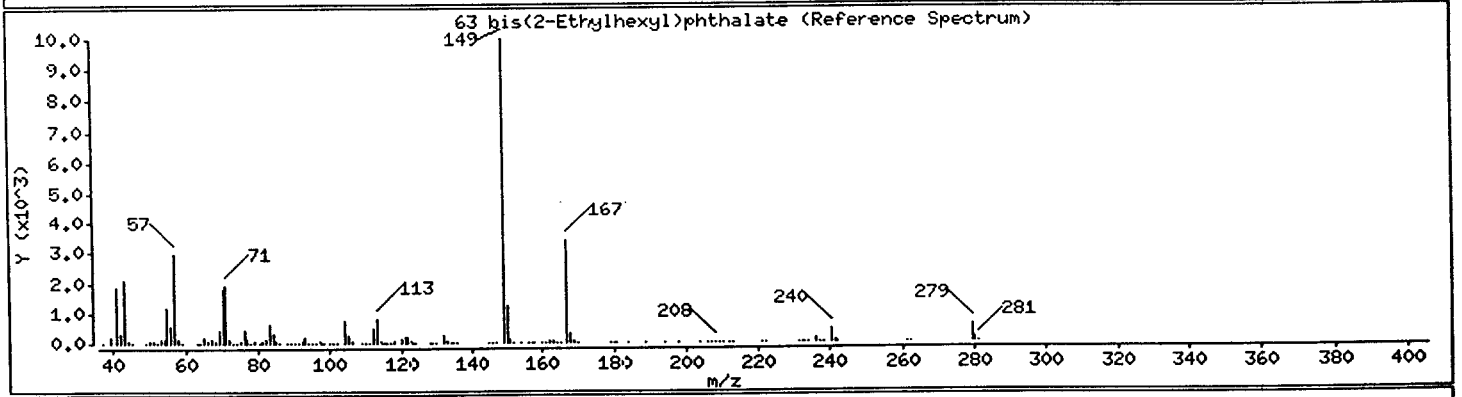
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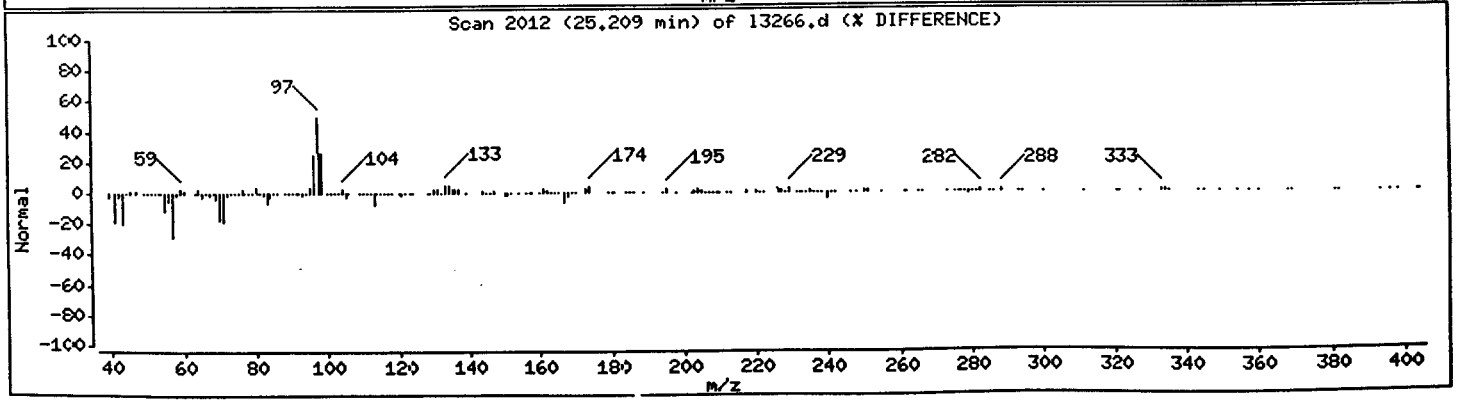
63 bis(2-Ethylhexyl)phthalate

Concentration: 980 ug/Kg









Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13266.d

Date : 31-OCT-2000 07:01

Client ID: RC-1_2nd_Flr

Instrument: BNAMS7.i

Sample Info: 237825;30;2;5;0.2

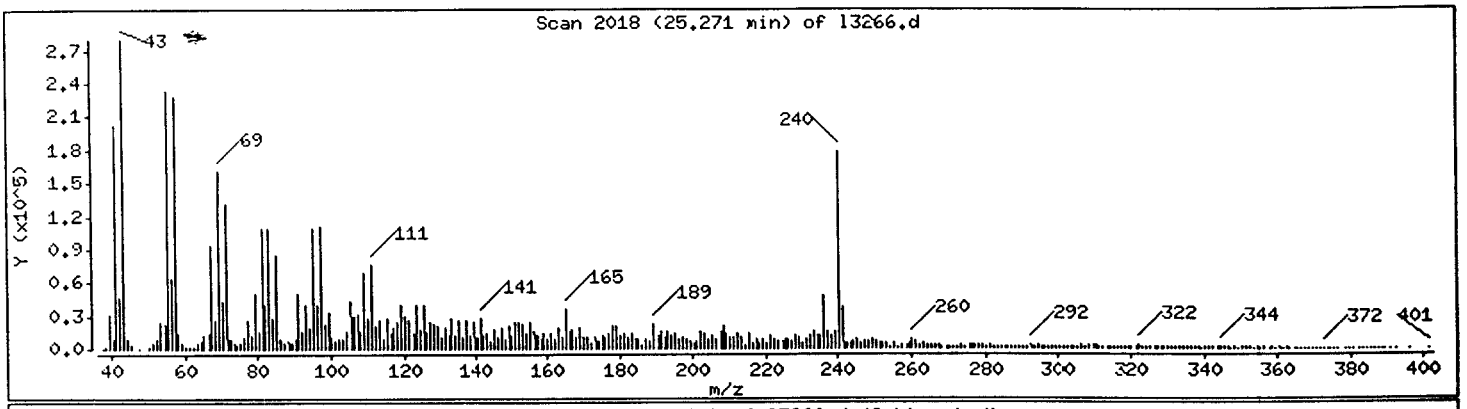
Operator: BNAMS 4

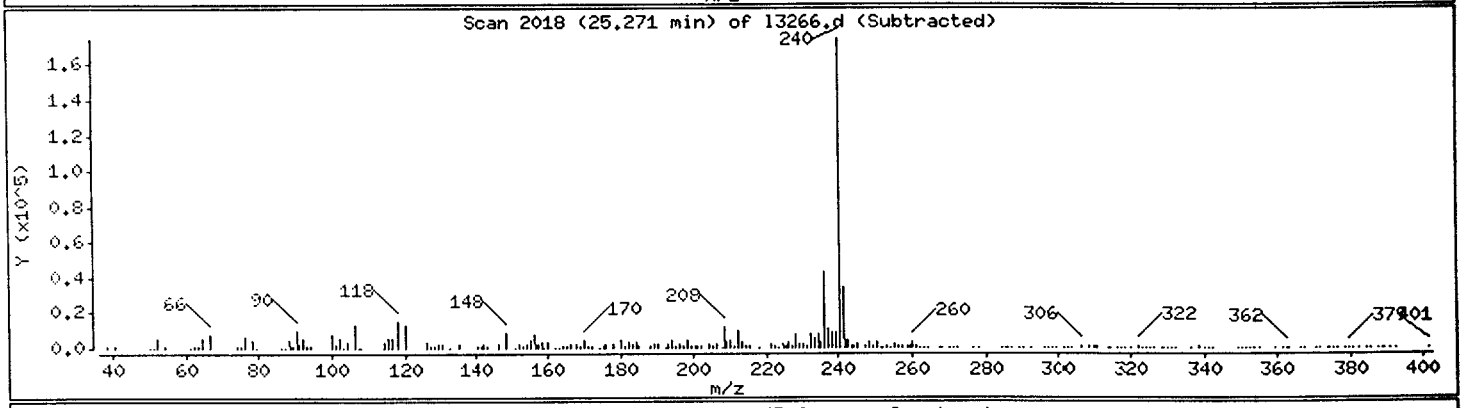
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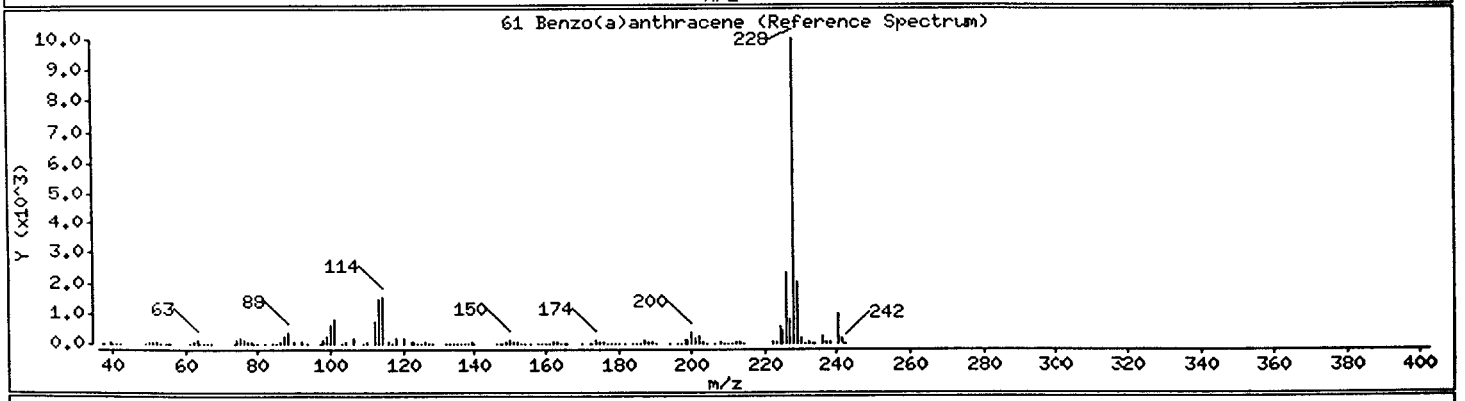
Column diameter: 0.25

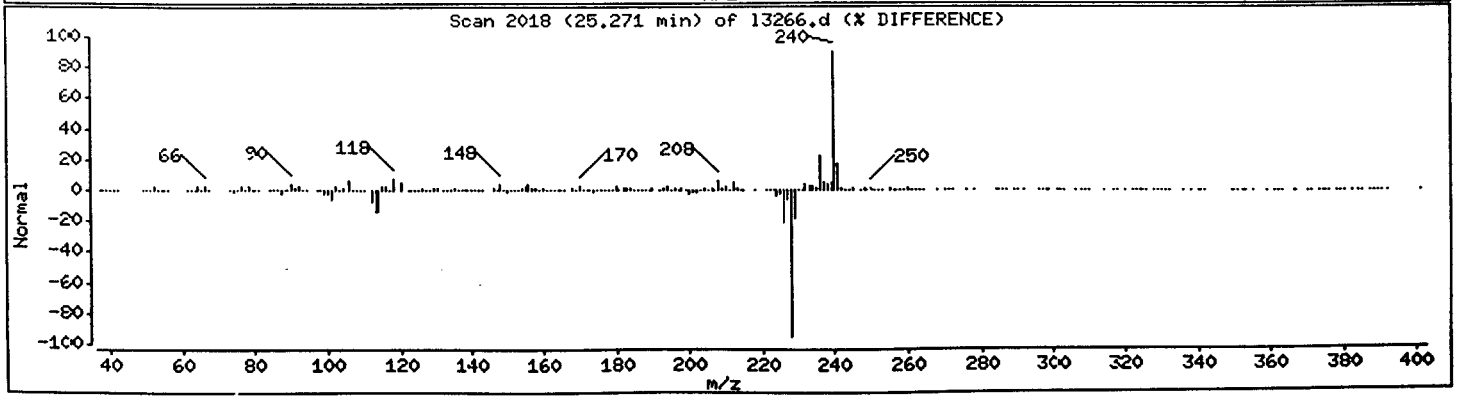
61 Benzo(a)anthracene

Concentration: 180 ug/Kg









Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13266.d

Date : 31-OCT-2000 07:01

Client ID: RC-1_2nd_Flr

Instrument: BNAMS7.i

Sample Info: 237825;30;2;5;0.2

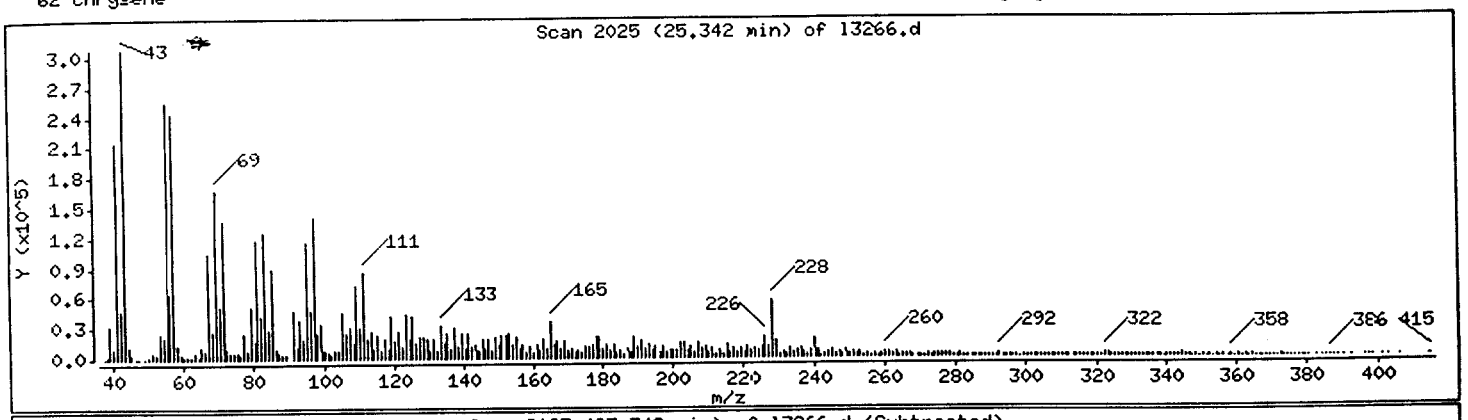
Operator: BNAMS 4

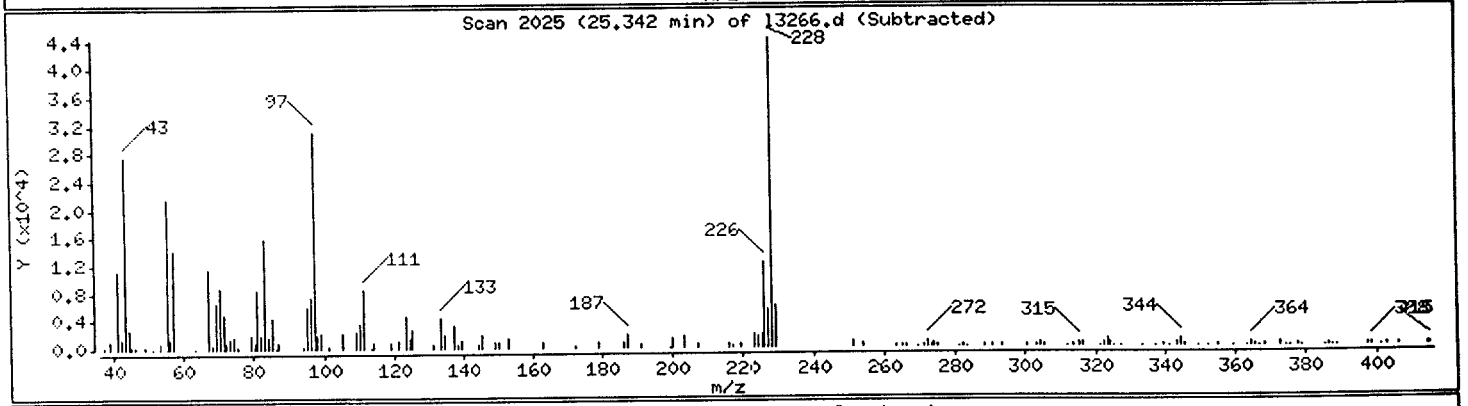
Column phase: DB-5

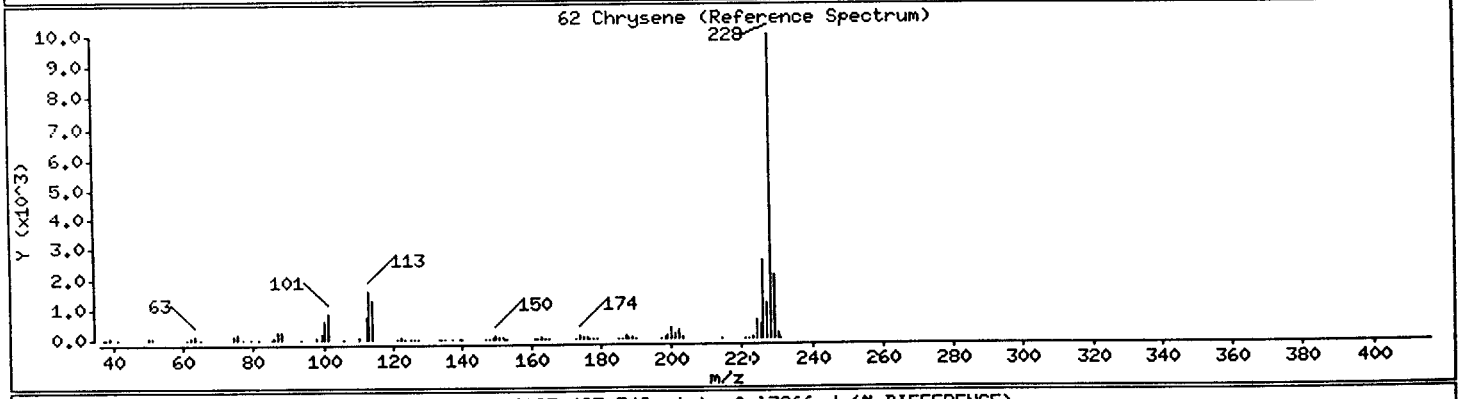
Column diameter: 0.25

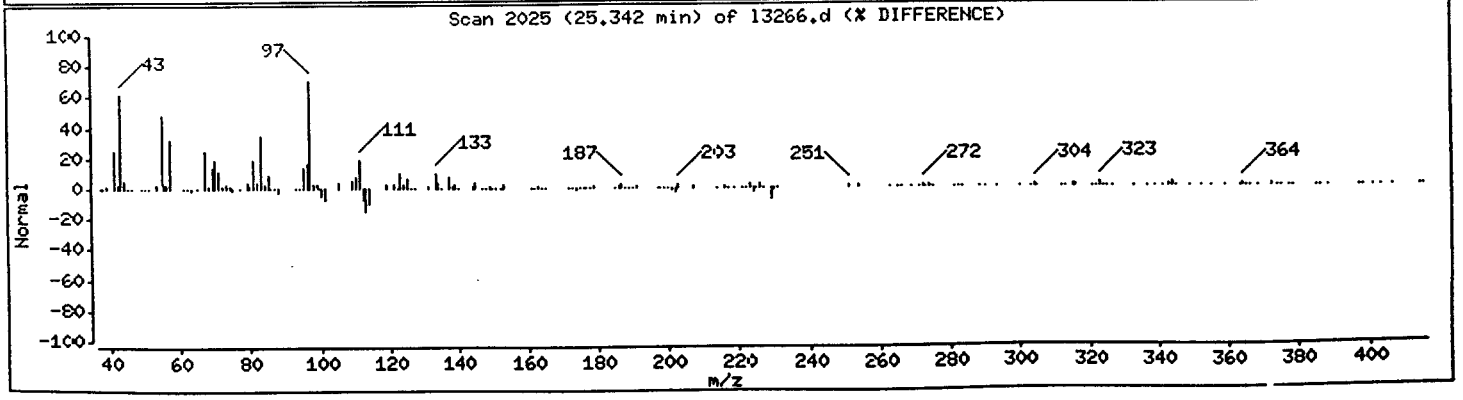
62 Chrysene

Concentration: 2000 ug/Kg









Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13266.d

Date : 31-OCT-2000 07:01

Client ID: RC-1_2nd_Flr

Instrument: BNAMS7.i

Sample Info: 237825;30;2;5;0.2

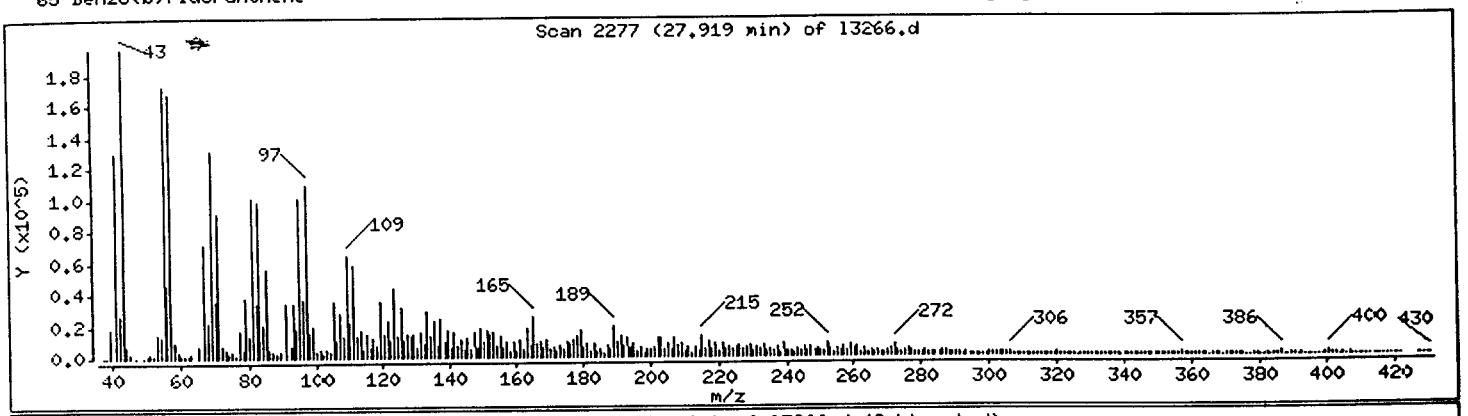
Operator: BNAMS 4

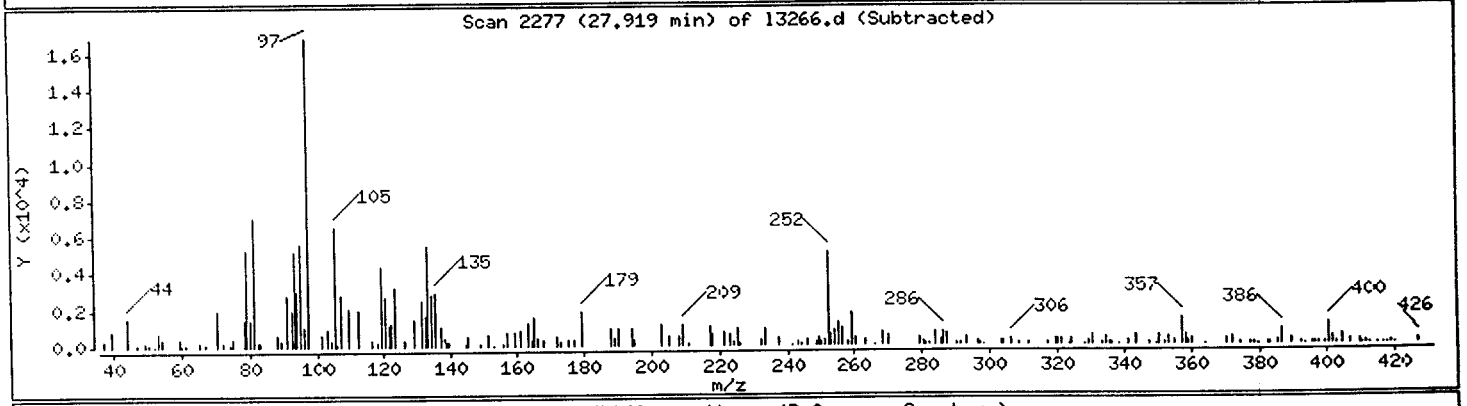
Column phase: DB-5

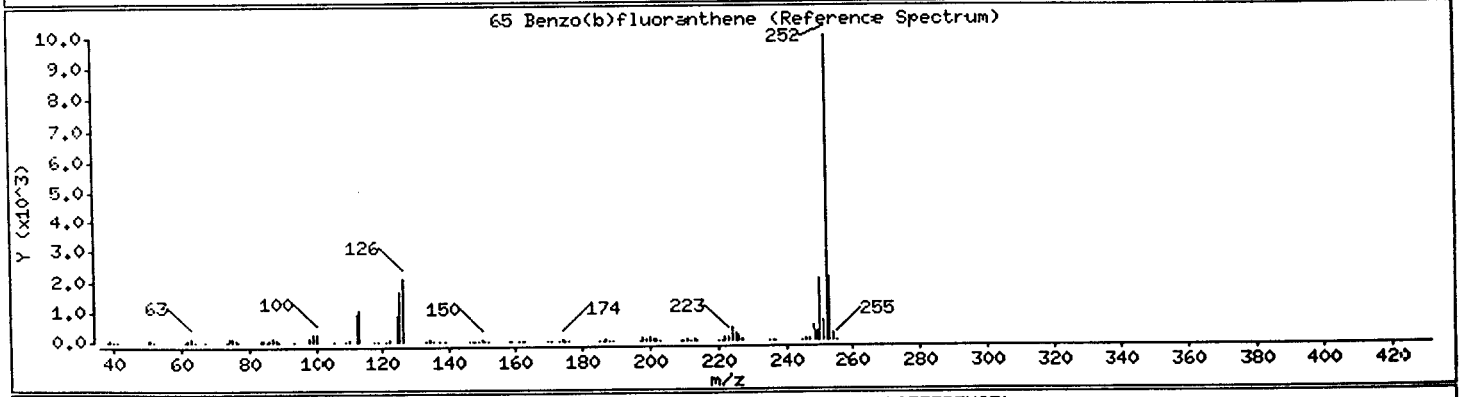
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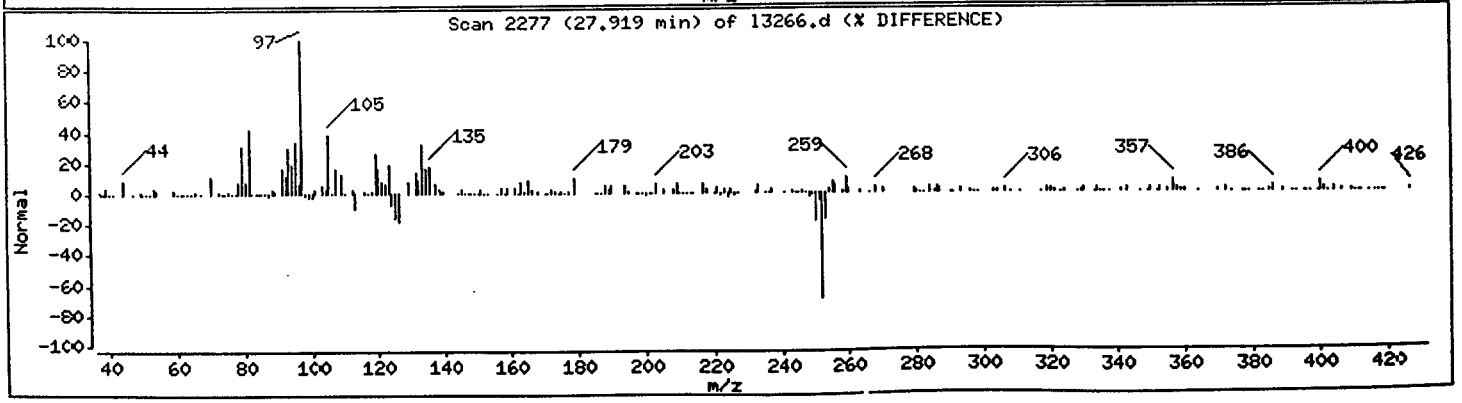
65 Benzo(b)fluoranthene

Concentration: 260 ug/Kg









Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13266.d

Date : 31-OCT-2000 07:01

Client ID: RC-1_2nd_Flr

Instrument: BNAMS7.i

Sample Info: 237825;30;2;5;0.2

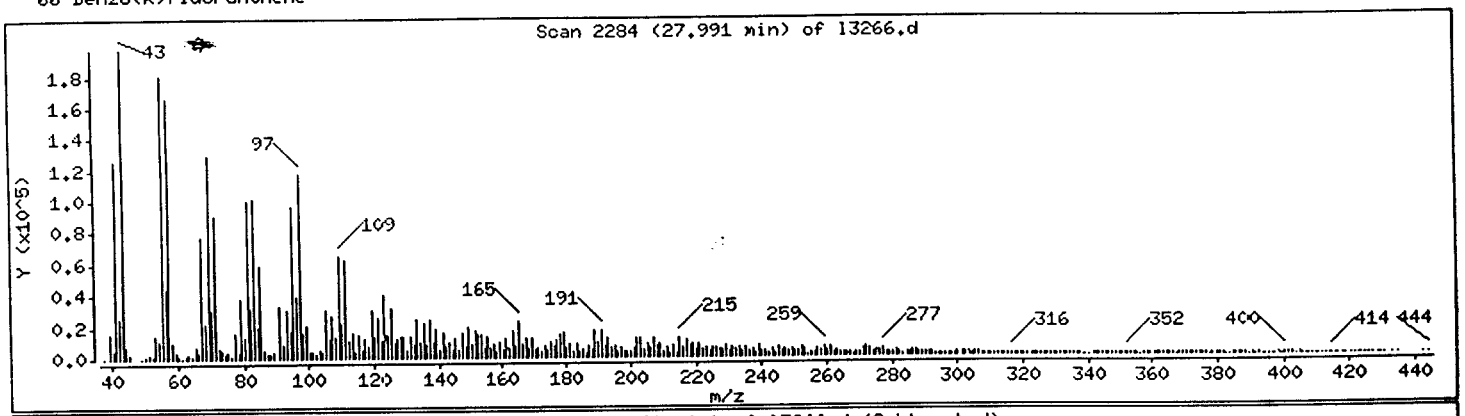
Operator: BNAMS 4

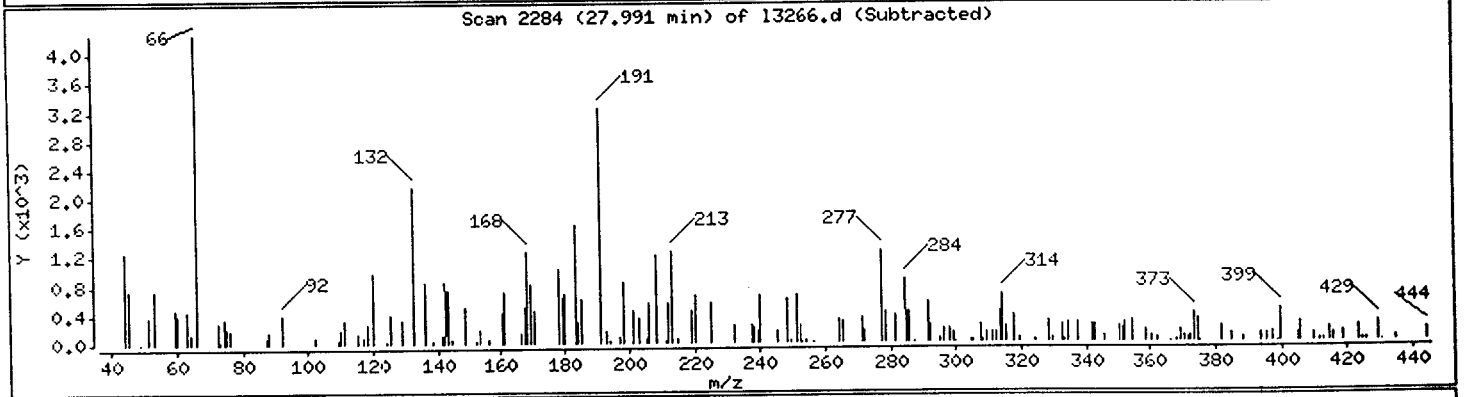
Column phase: DB-5

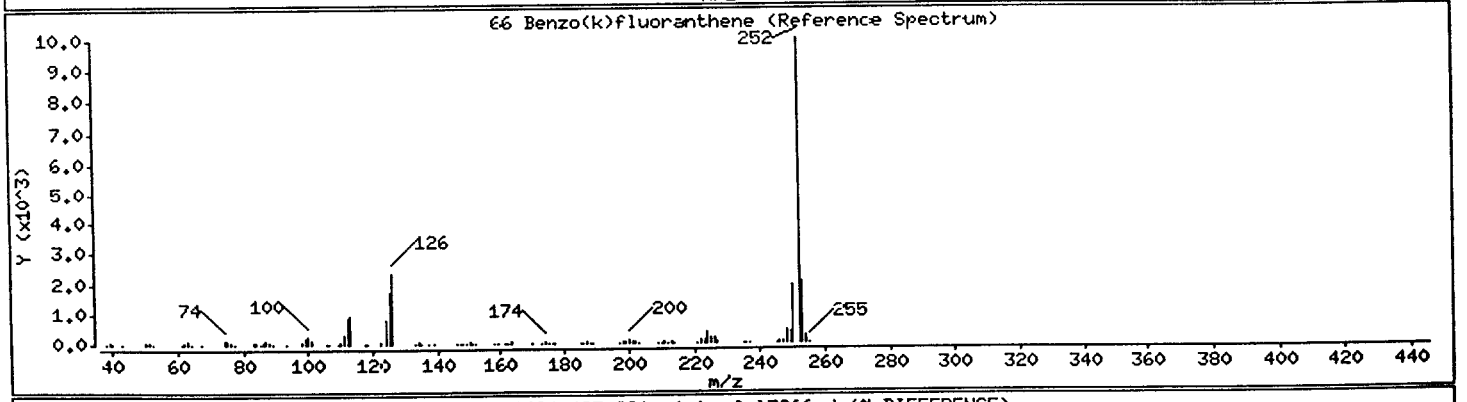
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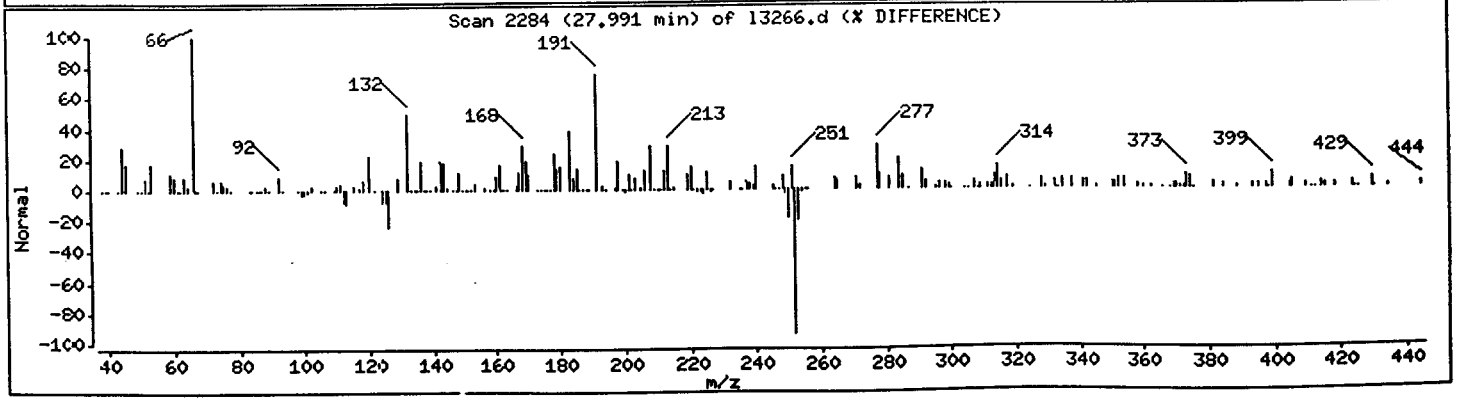
66 Benzo(k)fluoranthene

Concentration: 44 ug/Kg









Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13266.d

Date : 31-OCT-2000 07:01

Client ID: RC-1_2nd_Flr

Instrument: BNAMS7.i

Sample Info: 237825;30;2;5;0.2

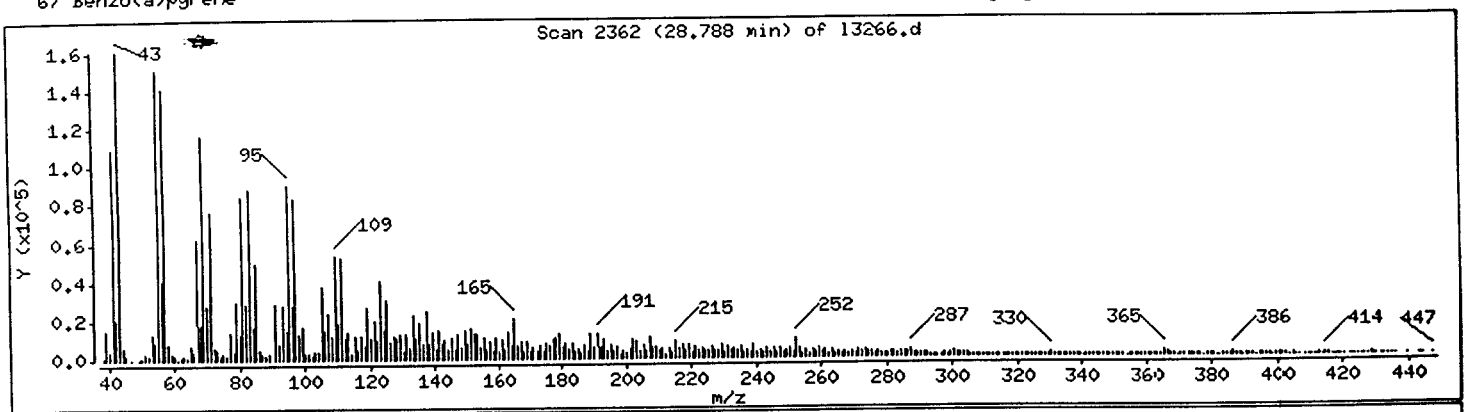
Operator: BNAMS 4

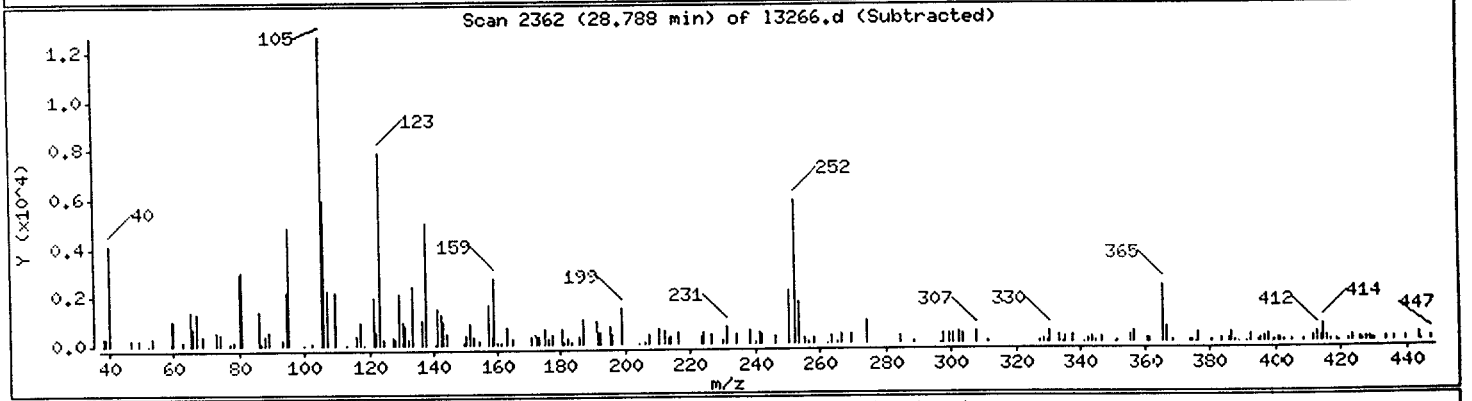
Column phase: DB-5

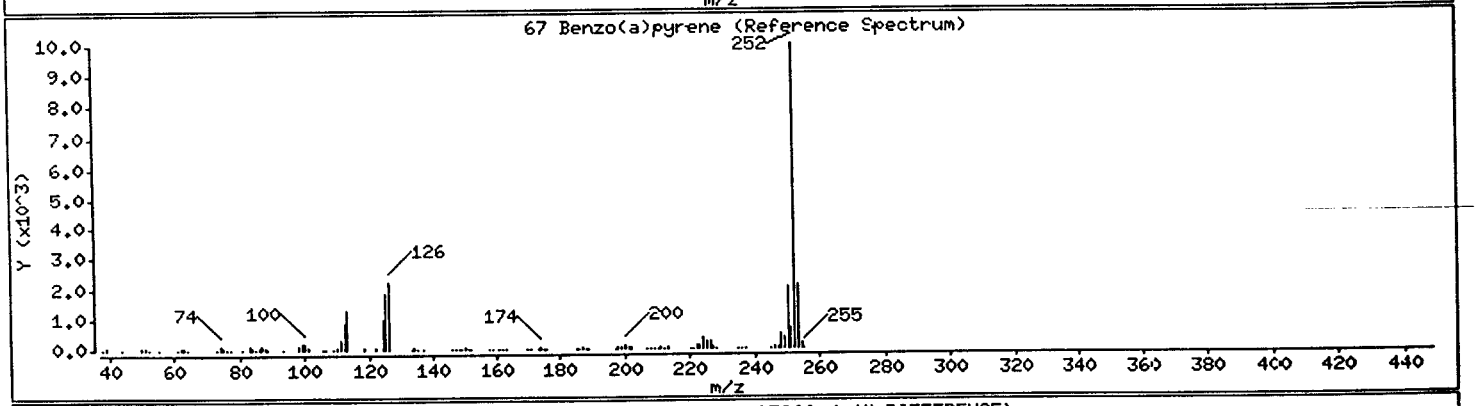
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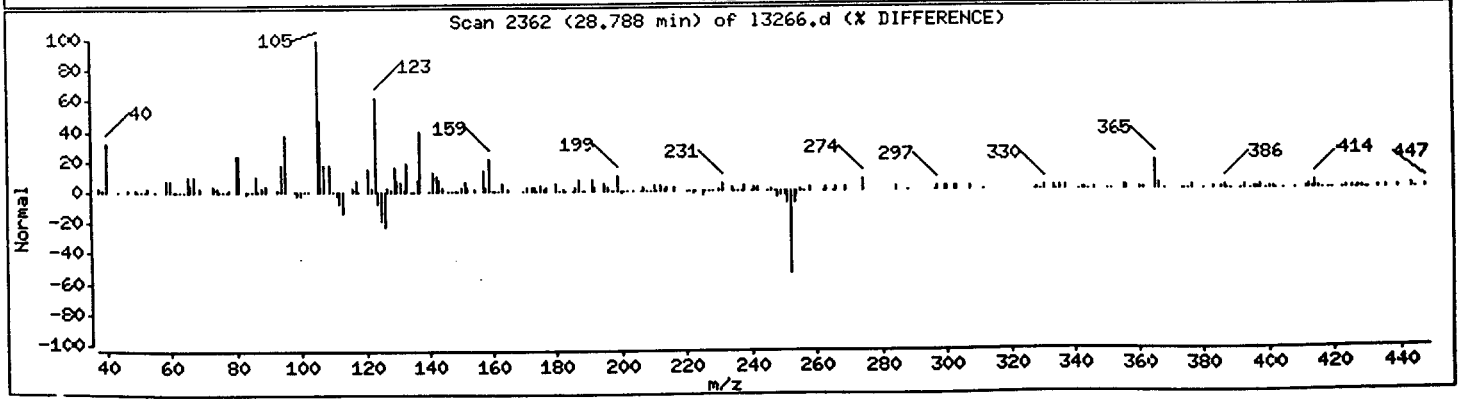
67 Benzo(a)pyrene

Concentration: 310 ug/Kg









Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13266.d

Date : 31-OCT-2000 07:01

Client ID: RC-1_2nd_Flr

Instrument: BNAMS7.i

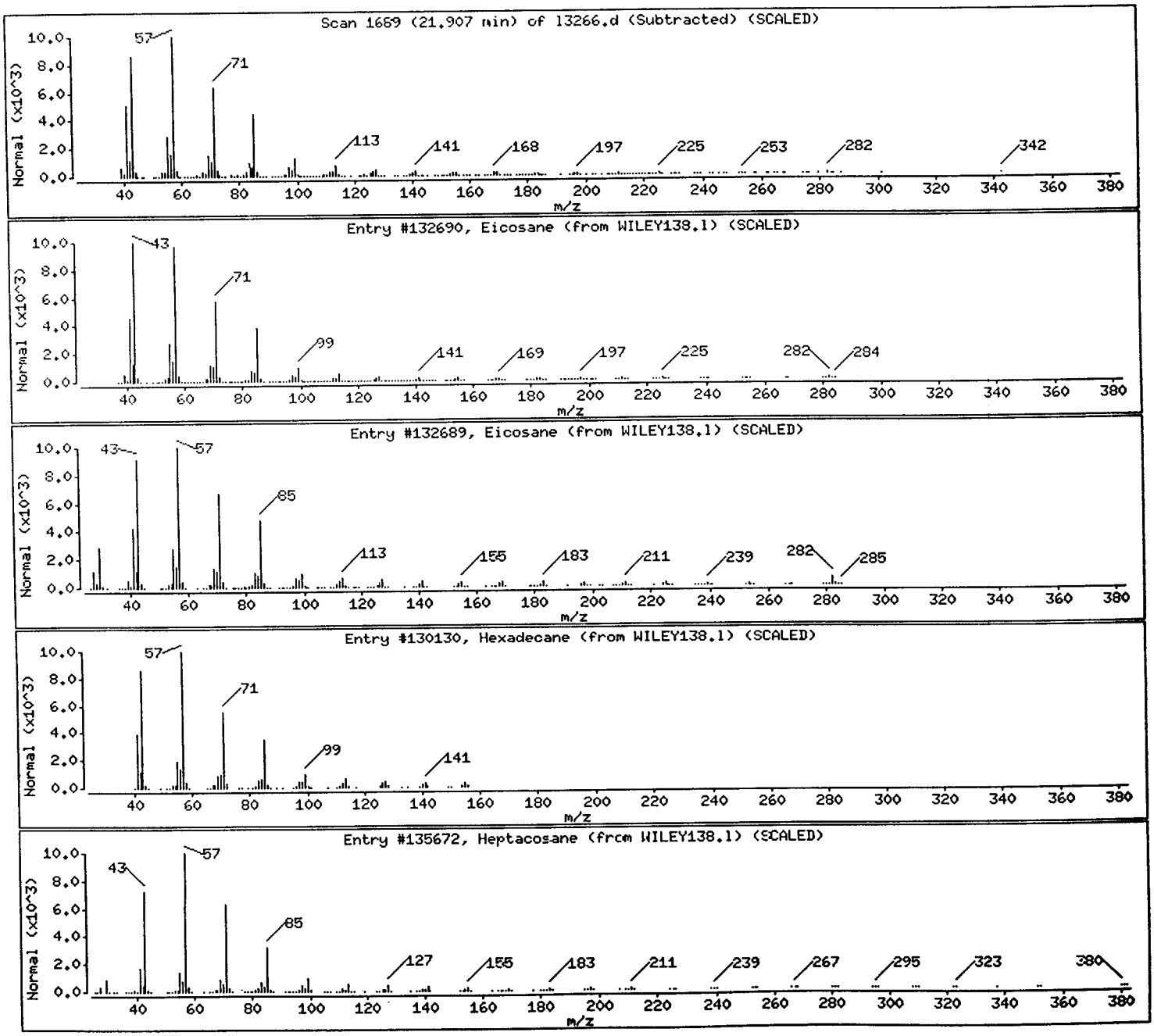
Sample Info: 237825;30;2;5;0.2

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
C20H42 Alkane						
Eicosane	112-95-8	WILEY138.l	132690	98	C20H42	282
Eicosane	112-95-8	WILEY138.l	132689	97	C20H42	282
Hexadecane	544-76-3	WILEY138.l	130130	91	C16H34	226
Heptacosane	593-49-7	WILEY138.l	135672	91	C27H56	380



Data File: /chem/BNAHS7.i/8270/10-27-00/31oct00.b/13266.d

Date : 31-OCT-2000 07:01

Client ID: RC-1_2nd_Flr

Instrument: BNAHS7.i

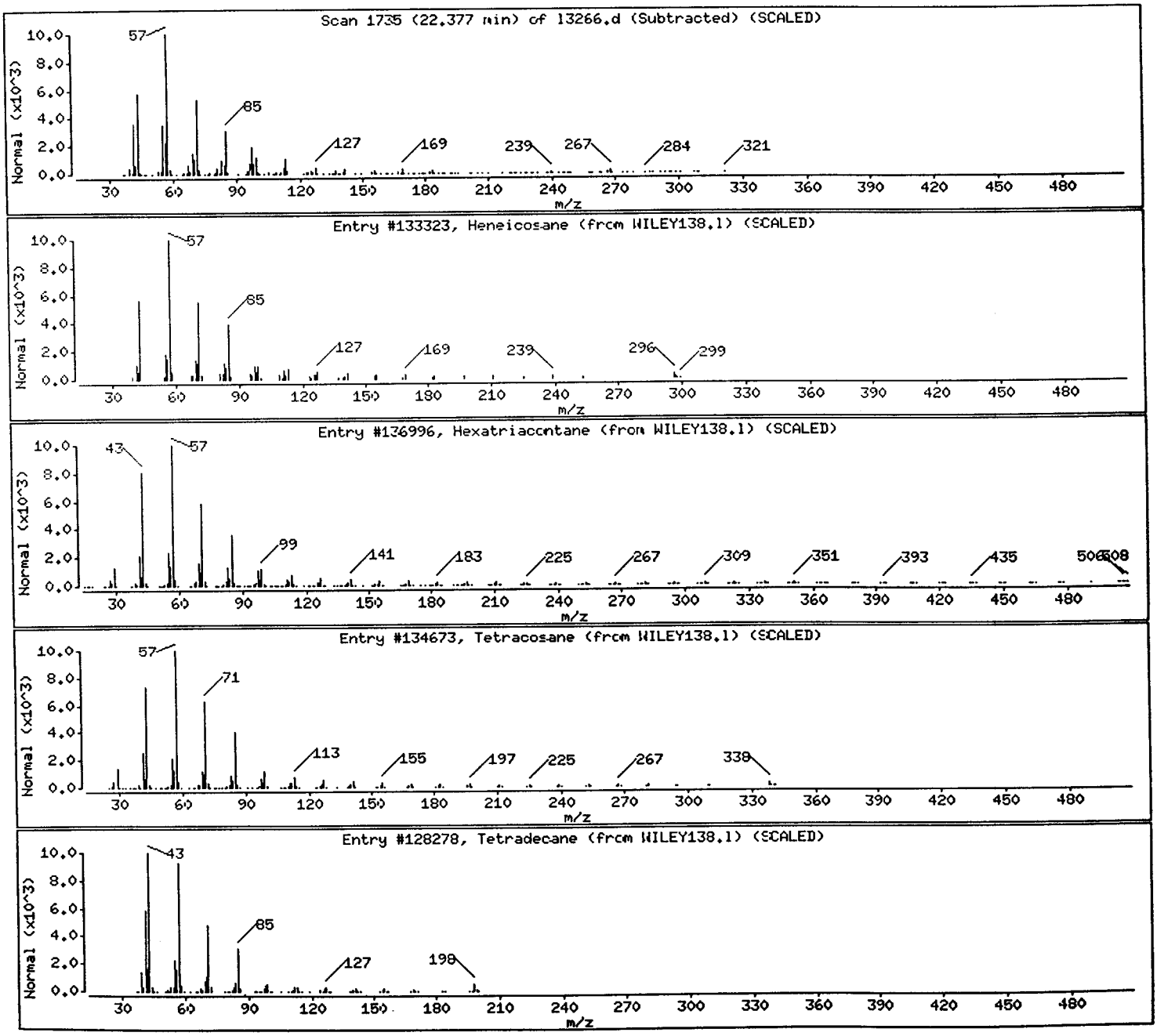
Sample Info: 237825;30;2;5;0.2

Operator: BNAHS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Heneicosane	629-94-7	WILEY138.l	133323	80	C21H44	296
Hexatriacontane	630-06-8	WILEY138.l	136996	80	C36H74	507
Tetracosane	646-31-1	WILEY138.l	134673	80	C24H50	338
Tetradecane	629-59-4	WILEY138.l	128278	80	C14H30	198



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13266.d

Date : 31-OCT-2000 07:01

Client ID: RC-1_2nd_Flr

Instrument: BNAMS7.i

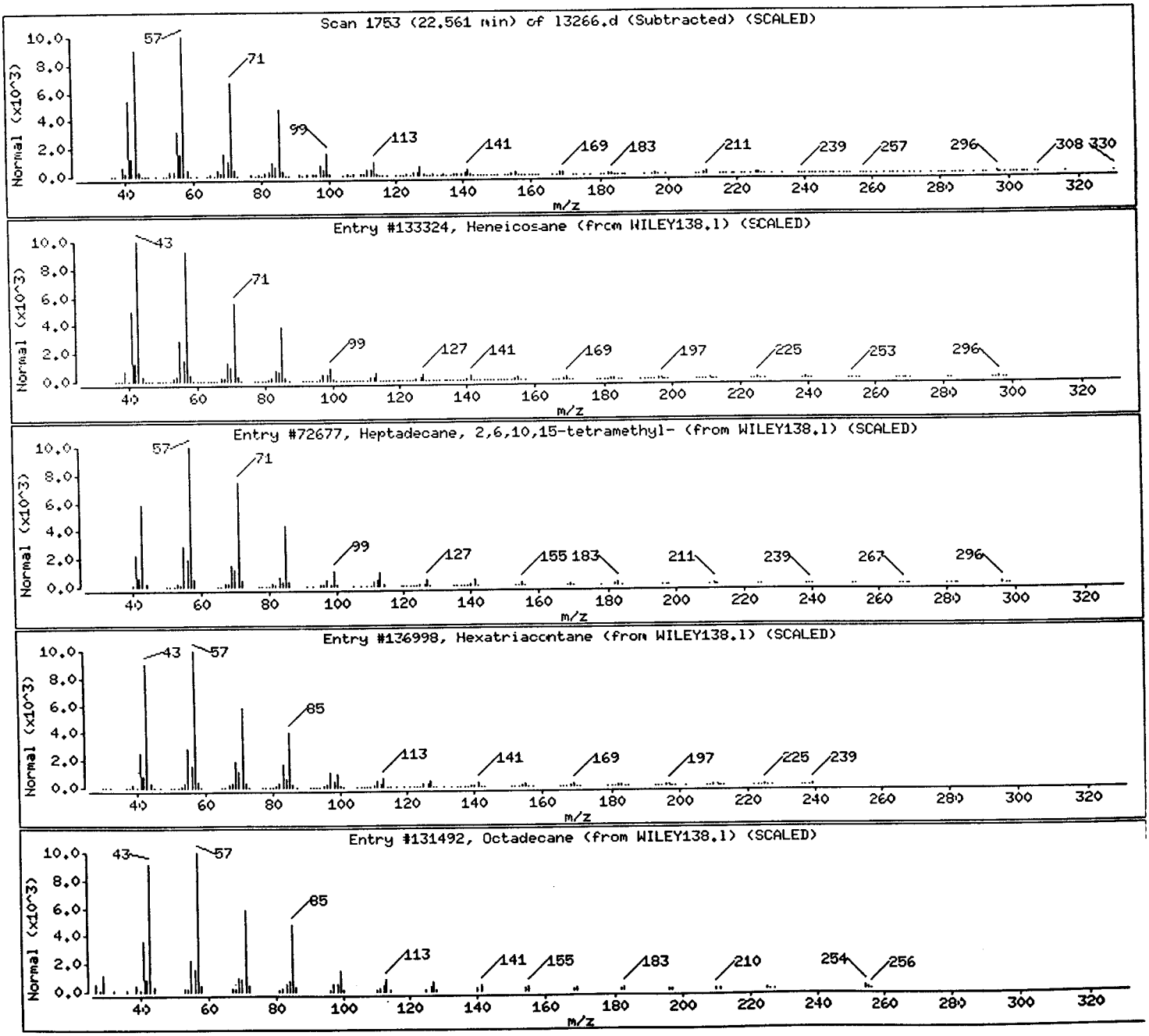
Sample Info: 237825;30;2;5;0.2

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
C21H44 Alkane						
Heneicosane	629-94-7	WILEY138.l	133324	98	C21H44	296
Heptadecane, 2,6,10,15-tetramethyl-	54833-48-6	WILEY138.l	72677	98	C21H44	296
Hexatriacontane	630-06-8	WILEY138.l	136998	91	C36H74	507
Octadecane	593-45-3	WILEY138.l	131492	91	C18H38	254



Data File: /chem/BNAHS7.i/8270/10-27-00/31oct00.b/13266.d

Date : 31-OCT-2000 07:01

Client ID: RC-1_2nd_Flr

Instrument: BNAHS7.i

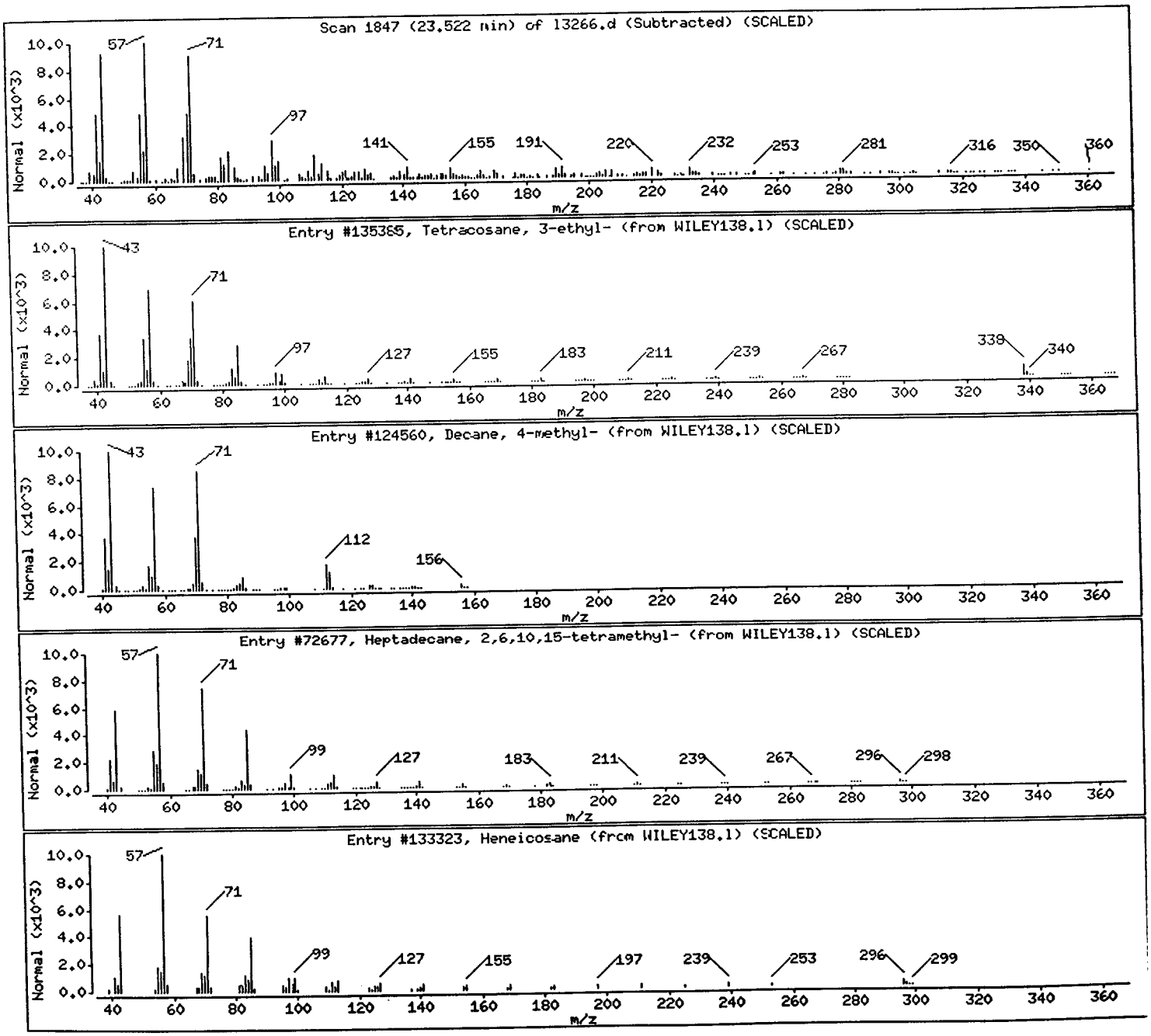
Sample Info: 237825;30;2;5;0.2

Operator: BNAHS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Tetracosane, 3-ethyl-	55282-17-2	WILEY138.l	135385	64	C26H54	366
Decane, 4-methyl-	2847-72-5	WILEY138.l	124560	64	C11H24	156
Heptadecane, 2,6,10,15-tetramethyl-	54833-48-6	WILEY138.l	72677	60	C21H44	296
Heneicosane	629-94-7	WILEY138.l	133323	58	C21H44	296



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13266.d

Date : 31-OCT-2000 07:01

Client ID: RC-1_2nd_Flr

Instrument: BNAMS7.i

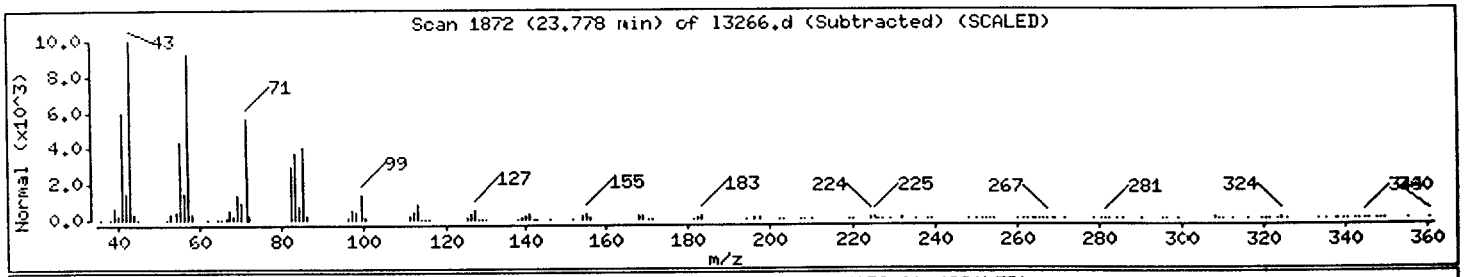
Sample Info: 237825;30;2;5;0.2

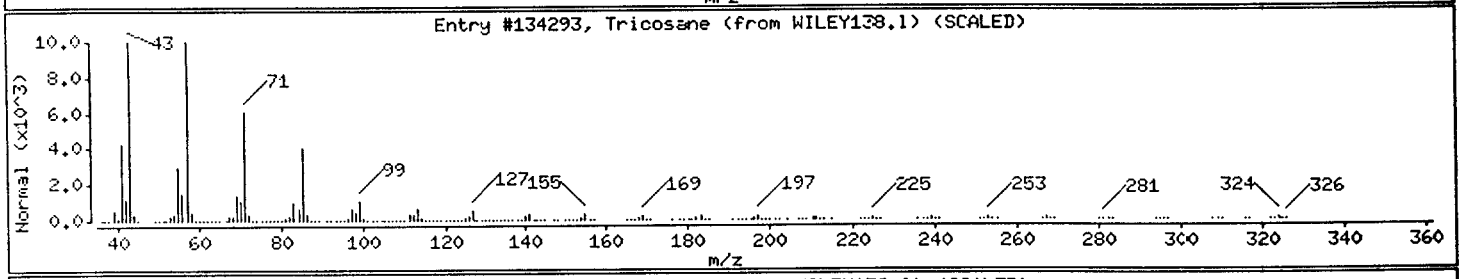
Operator: BNAMS 4

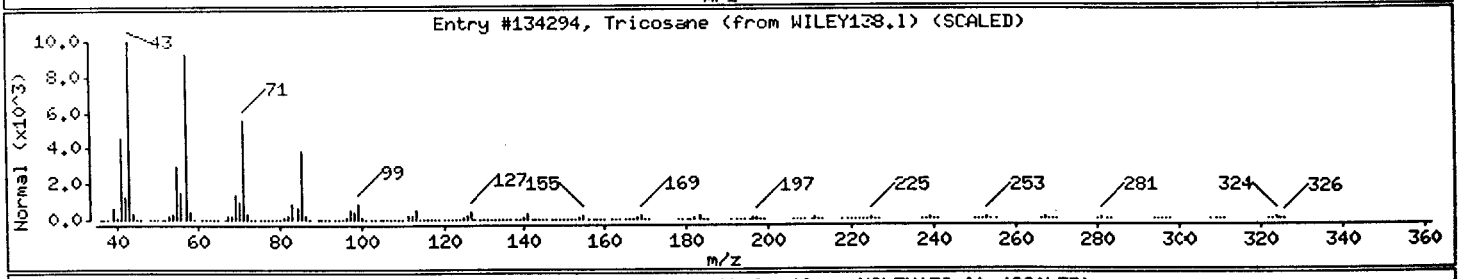
Column phase: DB-5

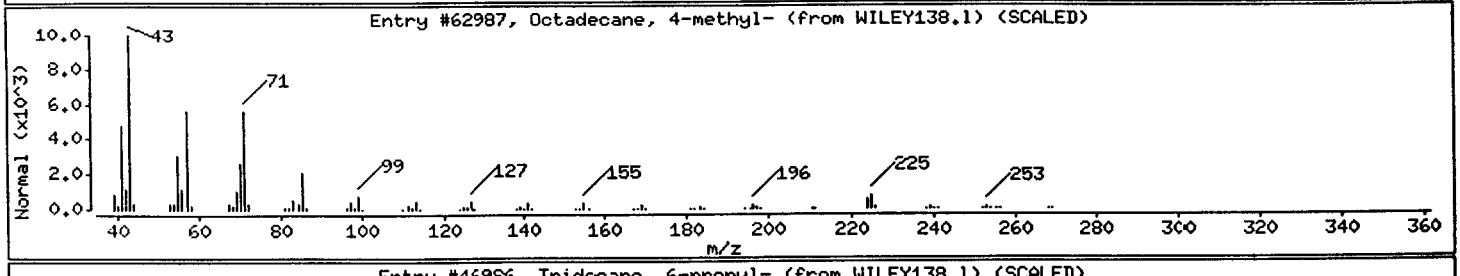
Column diameter: 0.25

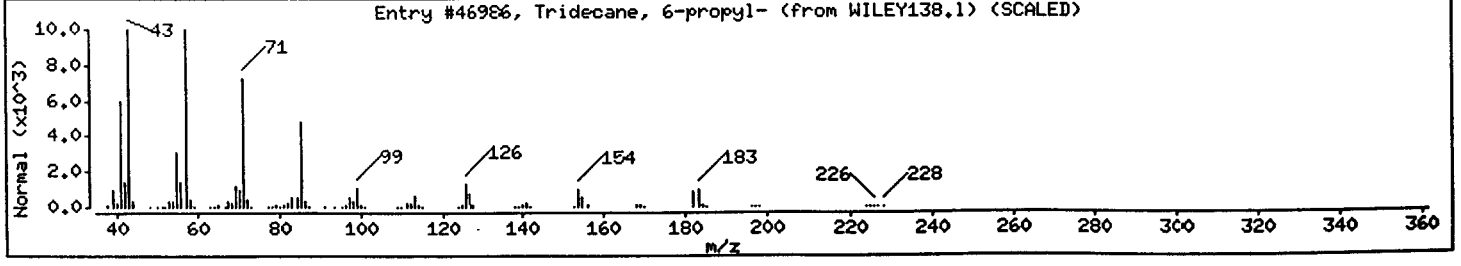
Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
C23H48 Alkane						
Tricosane	638-67-5	WILEY138.l	134293	98	C23H48	324
Tricosane	638-67-5	WILEY138.l	134294	98	C23H48	324
Octadecane, 4-methyl-	10544-95-3	WILEY138.l	62987	87	C19H40	268
Tridecane, 6-propyl-	55045-10-8	WILEY138.l	46986	86	C16H34	226











Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13266.d

Date : 31-OCT-2000 07:01

Client ID: RC-1_2nd_Flr

Instrument: BNAMS7.i

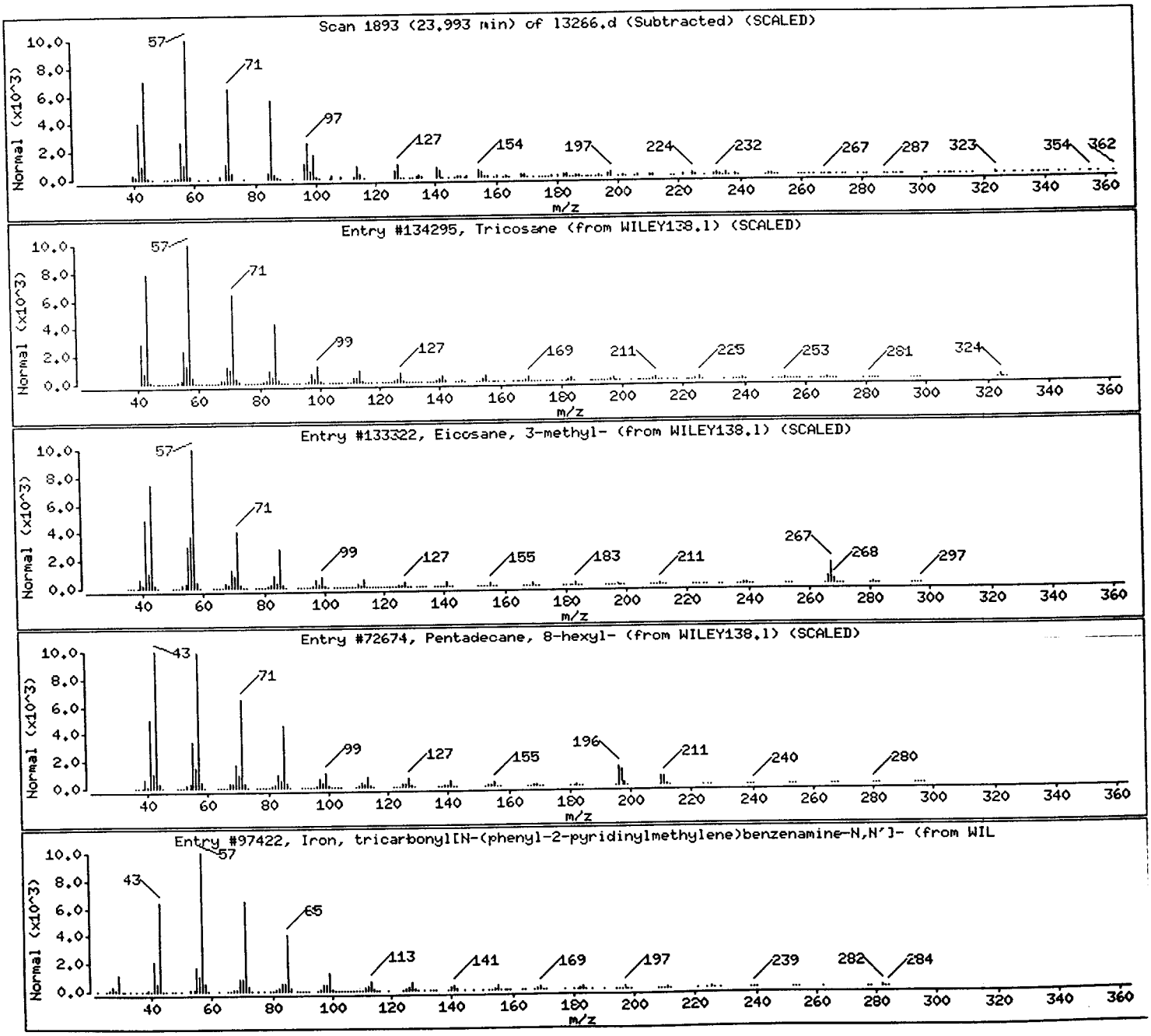
Sample Info: 237825;30;2;5;0.2

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Tricosane	638-67-5	WILEY138.l	134295	83	C23H48	324
Eicosane, 3-methyl-	6418-46-8	WILEY138.l	133322	81	C21H44	296
Pentadecane, 8-hexyl-	13475-75-7	WILEY138.l	72674	74	C21H44	296
Iron, tricarbonyl[N-(phenyl-2-pyridinylm	74764-11-7	WILEY138.l	97422	74	C21H14FeN2O3	398



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13266.d

Date : 31-OCT-2000 07:01

Client ID: RC-1_2nd_Flr

Instrument: BNAMS7.i

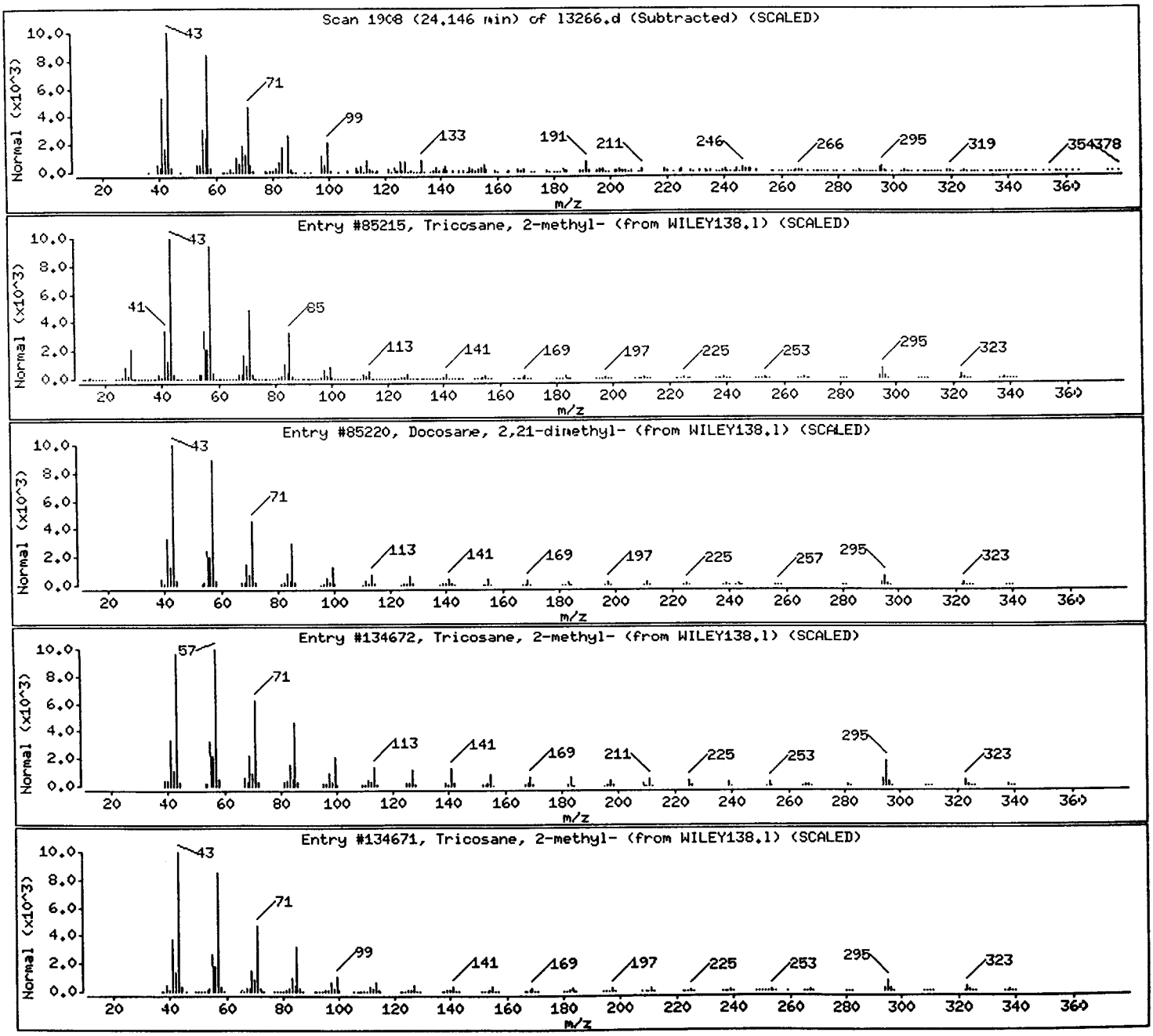
Sample Info: 237825;30;2;5;0.2

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Tricosane, 2-methyl-	1928-30-9	WILEY138.l	85215	94	C24H50	338
Docosane, 2,21-dimethyl-	77536-31-3	WILEY138.l	85220	93	C24H50	338
Tricosane, 2-methyl-	1928-30-9	WILEY138.l	134672	90	C24H50	338
Tricosane, 2-methyl-	1928-30-9	WILEY138.l	134671	86	C24H50	338



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13266.d

Date : 31-OCT-2000 07:01

Client ID: RC-1_2nd_Flr

Instrument: BNAMS7.i

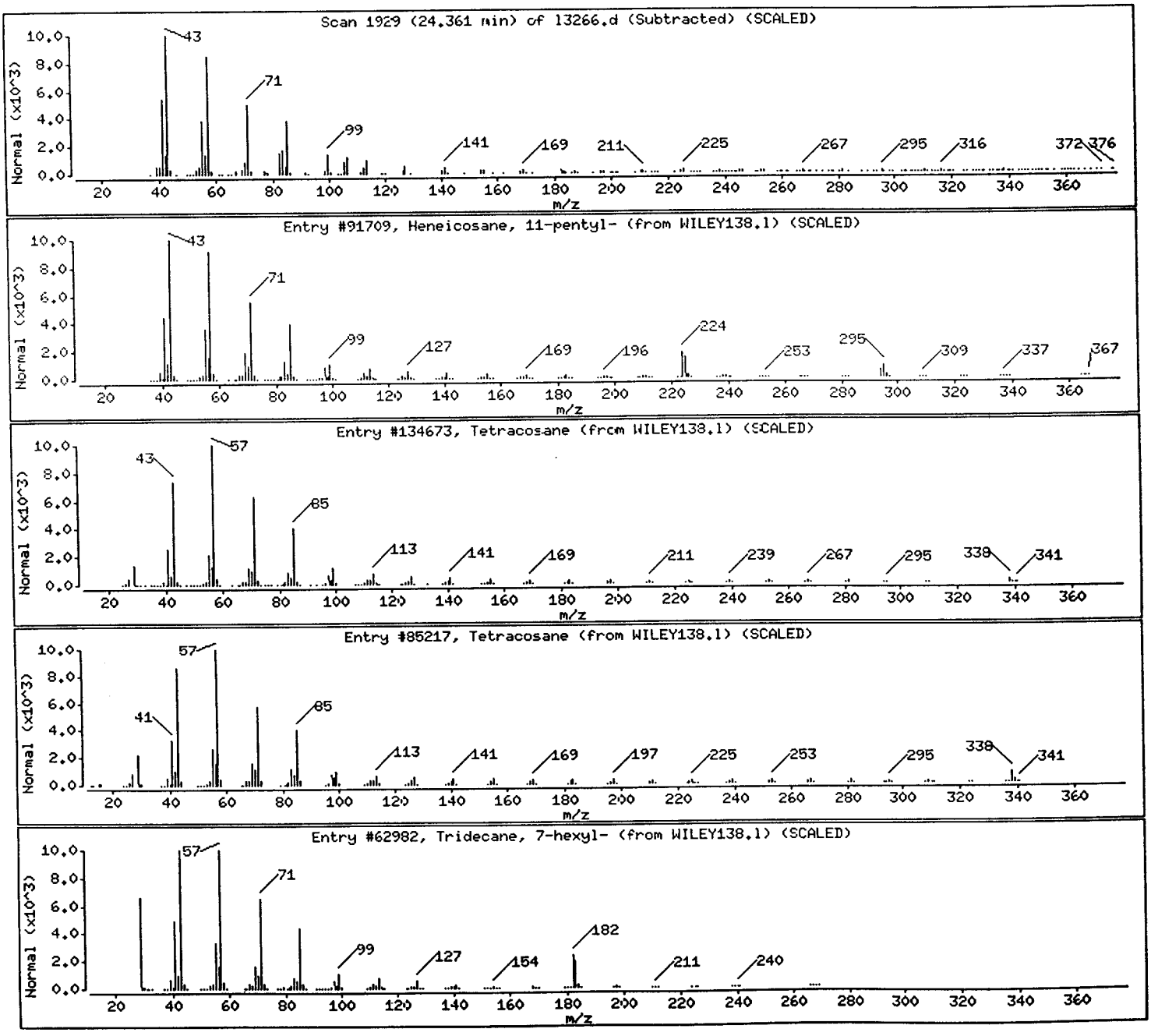
Sample Info: 237825;30;2;5;0.2

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Heneicosane, 11-pentyl-	14739-72-1	WILEY138.1	91709	93	C26H54	366
Tetracosane	646-31-1	WILEY138.1	134673	93	C24H50	338
Tetracosane	646-31-1	WILEY138.1	85217	93	C24H50	338
Tridecane, 7-hexyl-	7225-66-3	WILEY138.1	62982	91	C19H40	268



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13266.d

Date : 31-OCT-2000 07:01

Client ID: RC-1_2nd_Flr

Instrument: BNAMS7.i

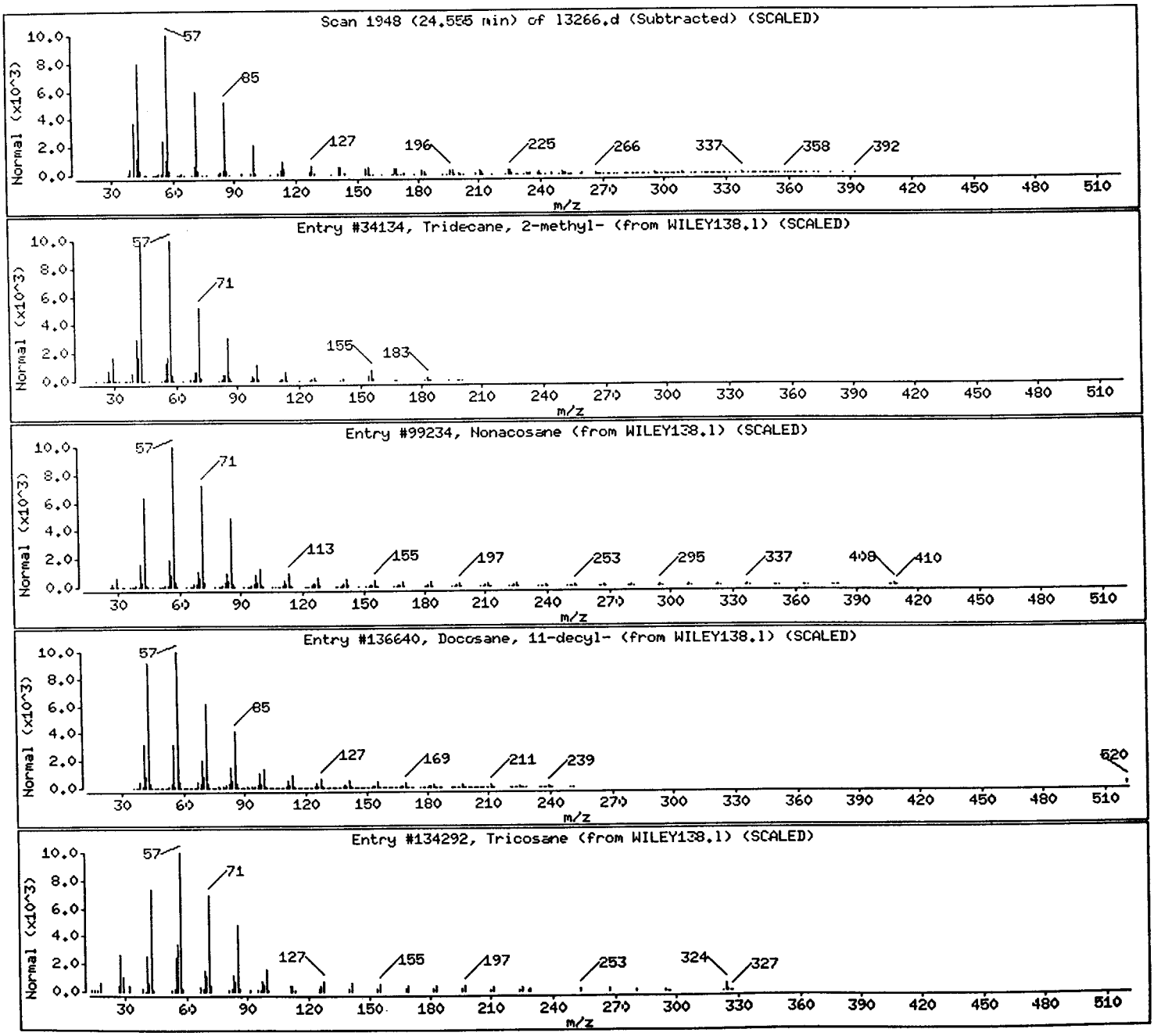
Sample Info: 237825;30;2;5;0.2

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Tridecane, 2-methyl-	1560-96-9	WILEY138.1	34134	80	C14H30	198
Nonacosane	630-03-5	WILEY138.1	99234	72	C29H60	408
Docosane, 11-decyl-	55401-55-3	WILEY138.1	136640	72	C32H66	451
Tricosane	638-67-5	WILEY138.1	134292	68	C23H48	324



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13266.d

Date : 31-OCT-2000 07:01

Client ID: RC-1_2nd_Flr

Instrument: BNAMS7.i

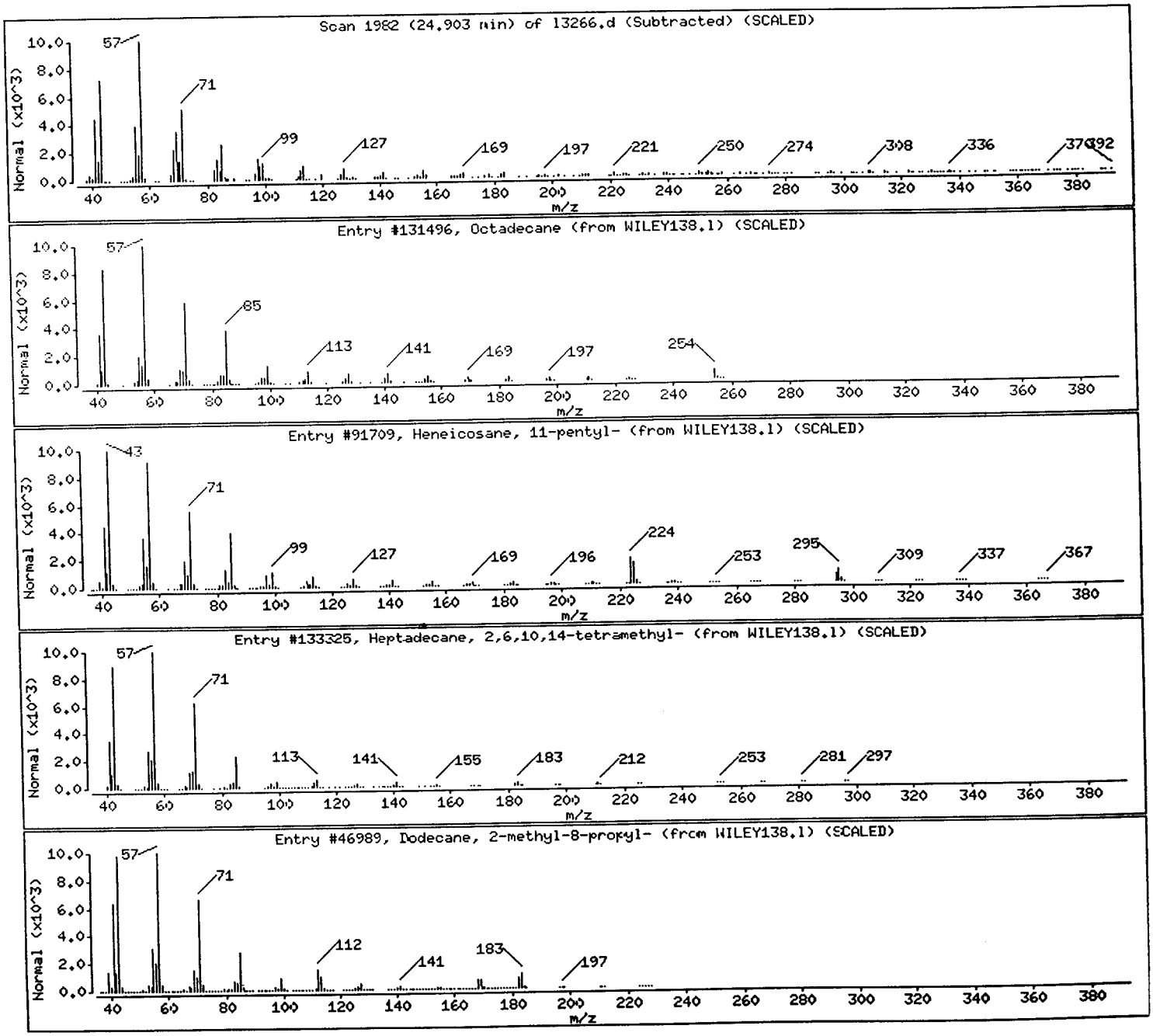
Sample Info: 237825;30;2;5;0.2

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Octadecane	593-45-3	WILEY138.l	131496	70	C18H38	254
Heneicosane, 11-pentyl-	14739-72-1	WILEY138.l	91709	64	C26H54	366
Heptadecane, 2,6,10,14-tetramethyl-	18344-37-1	WILEY138.l	133325	64	C21H44	296
Dodecane, 2-methyl-8-propyl-	55045-07-3	WILEY138.l	46989	62	C16H34	226



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13266.d

Date : 31-OCT-2000 07:01

Client ID: RC-1_2nd_Flr

Instrument: BNAMS7.i

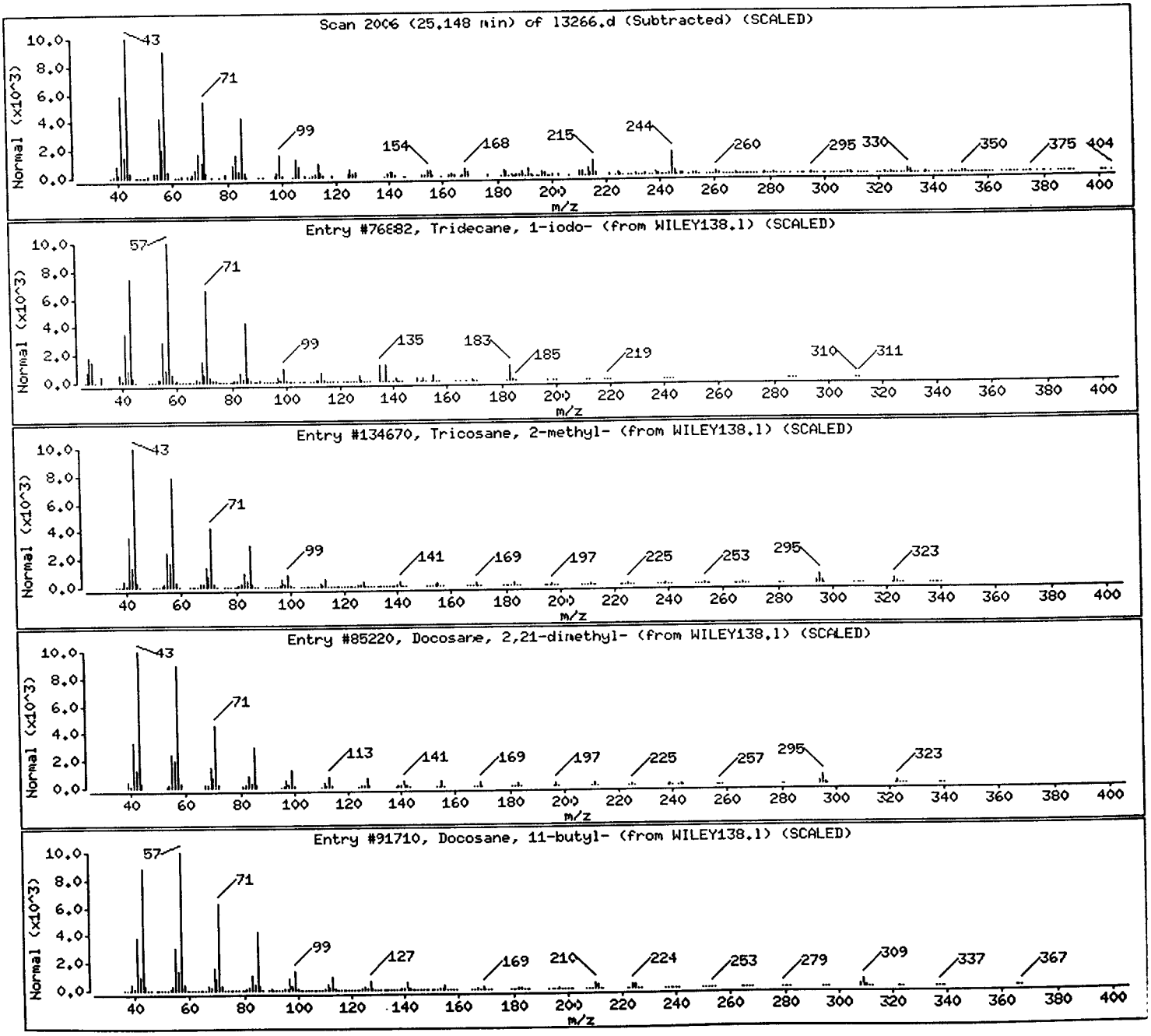
Sample Info: 237825;30;2;5;0.2

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Tridecane, 1-iodo-	35599-77-0	WILEY138.l	76882	92	C13H27I	310
Tricosane, 2-methyl-	1928-30-9	WILEY138.l	134670	92	C24H50	338
Docosane, 2,21-dimethyl-	77536-31-3	WILEY138.l	85220	90	C24H50	338
Docosane, 11-butyl-	13475-76-8	WILEY138.l	91710	90	C26H54	366



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13266.d

Date : 31-OCT-2000 07:01

Client ID: RC-1_2nd_Flr

Instrument: BNAMS7.i

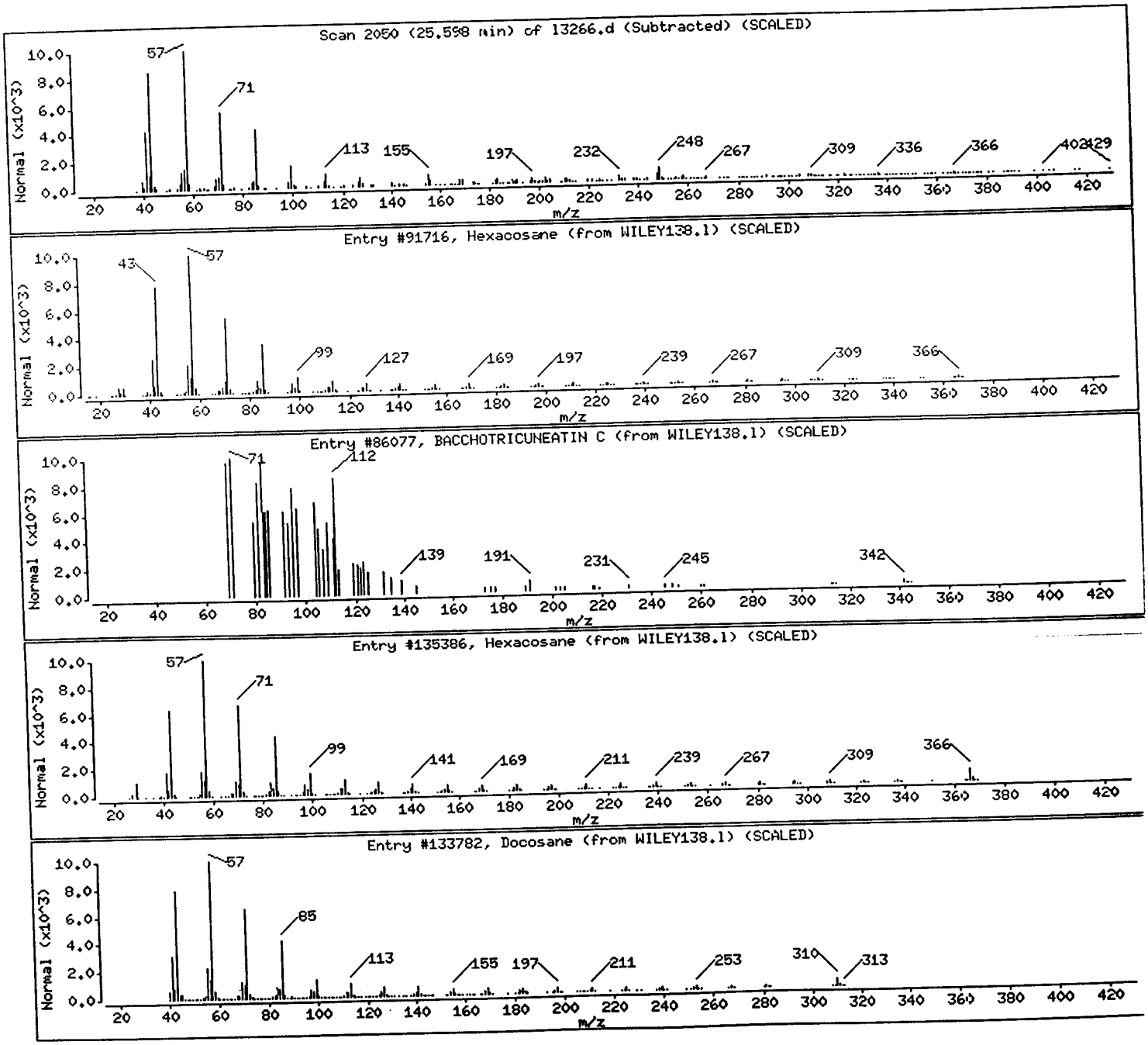
Sample Info: 237825;30;2;5;0.2

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
C26H54 Alkane						
Hexacosane	630-01-3	WILEY138.1	91716	95	C26H54	366
BACCHOTRICUNEATIN C	66563-30-2	WILEY138.1	86077	91	C20H22O5	342
Hexacosane	630-01-3	WILEY138.1	135386	83	C26H54	366
Docosane	629-97-0	WILEY138.1	133782	83	C22H46	310



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13266.d

Date : 31-OCT-2000 07:01

Client ID: RC-1_2nd_Flr

Instrument: BNAMS7.i

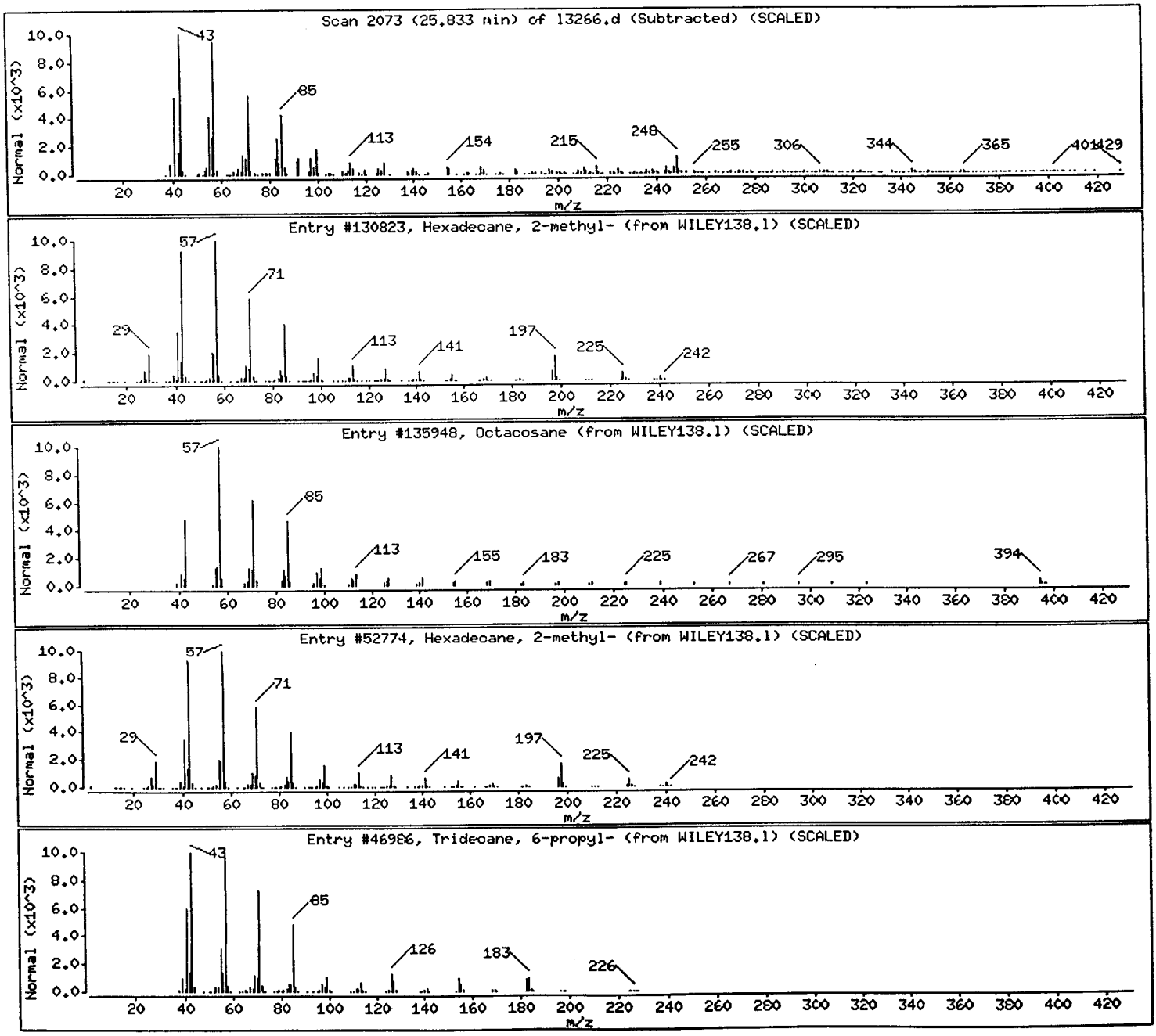
Sample Info: 237825;30;2;5;0.2

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Hexadecane, 2-methyl-	1560-92-5	WILEY138.l	130823	89	C17H36	240
Octacosane	630-02-4	WILEY138.l	135948	89	C28H58	394
Hexadecane, 2-methyl-	1560-92-5	WILEY138.l	52774	89	C17H36	240
Tridecane, 6-propyl-	55045-10-8	WILEY138.l	46986	83	C16H34	226



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13266.d

Date : 31-OCT-2000 07:01

Client ID: RC-1_2nd_Flr

Instrument: BNAMS7.i

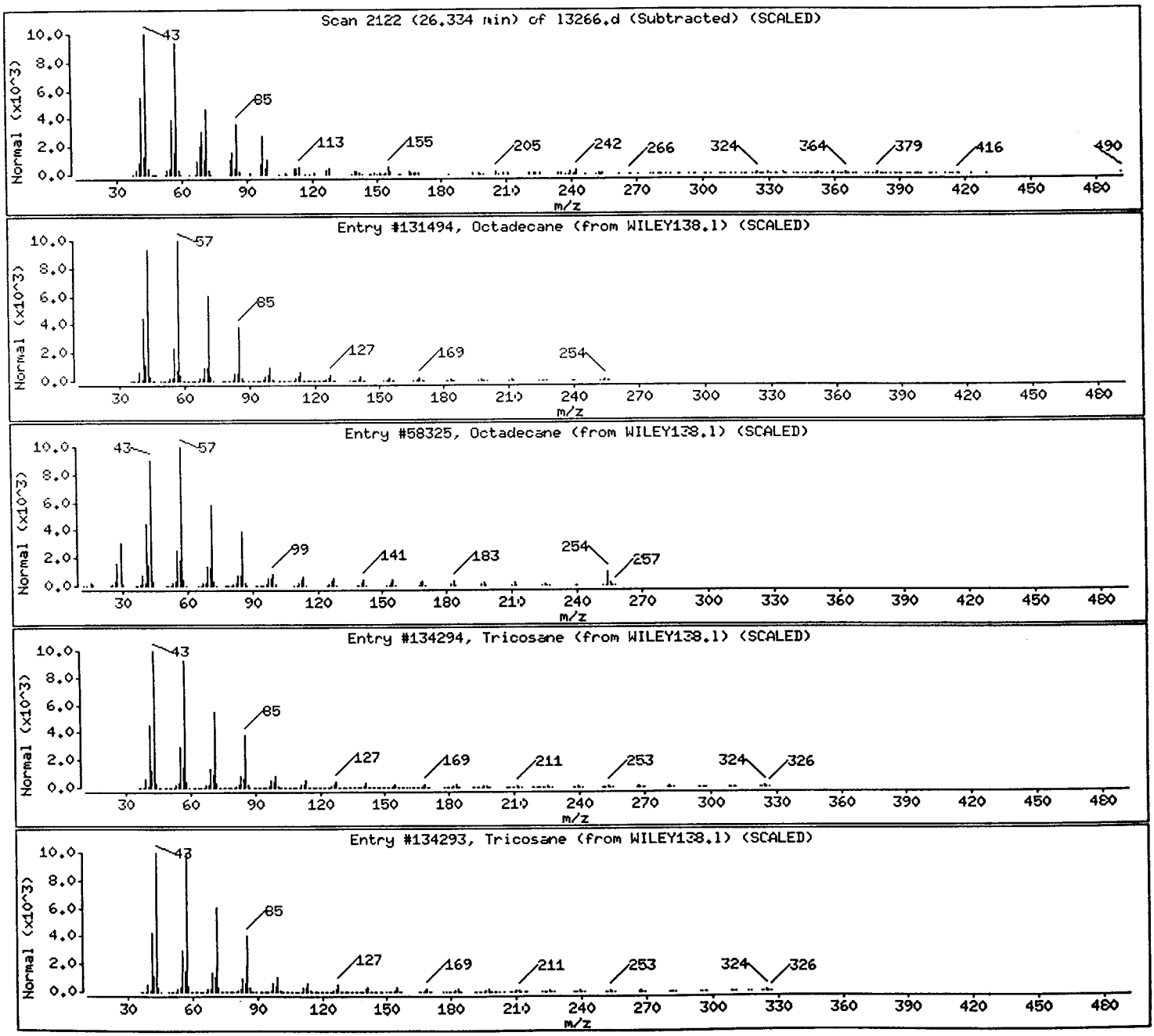
Sample Info: 237825;30;2;5;0.2

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Octadecane	593-45-3	WILEY138.l	131494	92	C18H38	254
Octadecane	593-45-3	WILEY138.l	58325	91	C18H38	254
Tricosane	638-67-5	WILEY138.l	134294	91	C23H48	324
Tricosane	638-67-5	WILEY138.l	134293	91	C23H48	324



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13266.d

Date : 31-OCT-2000 07:01

Client ID: RC-1_2nd_Flr

Instrument: BNAMS7.i

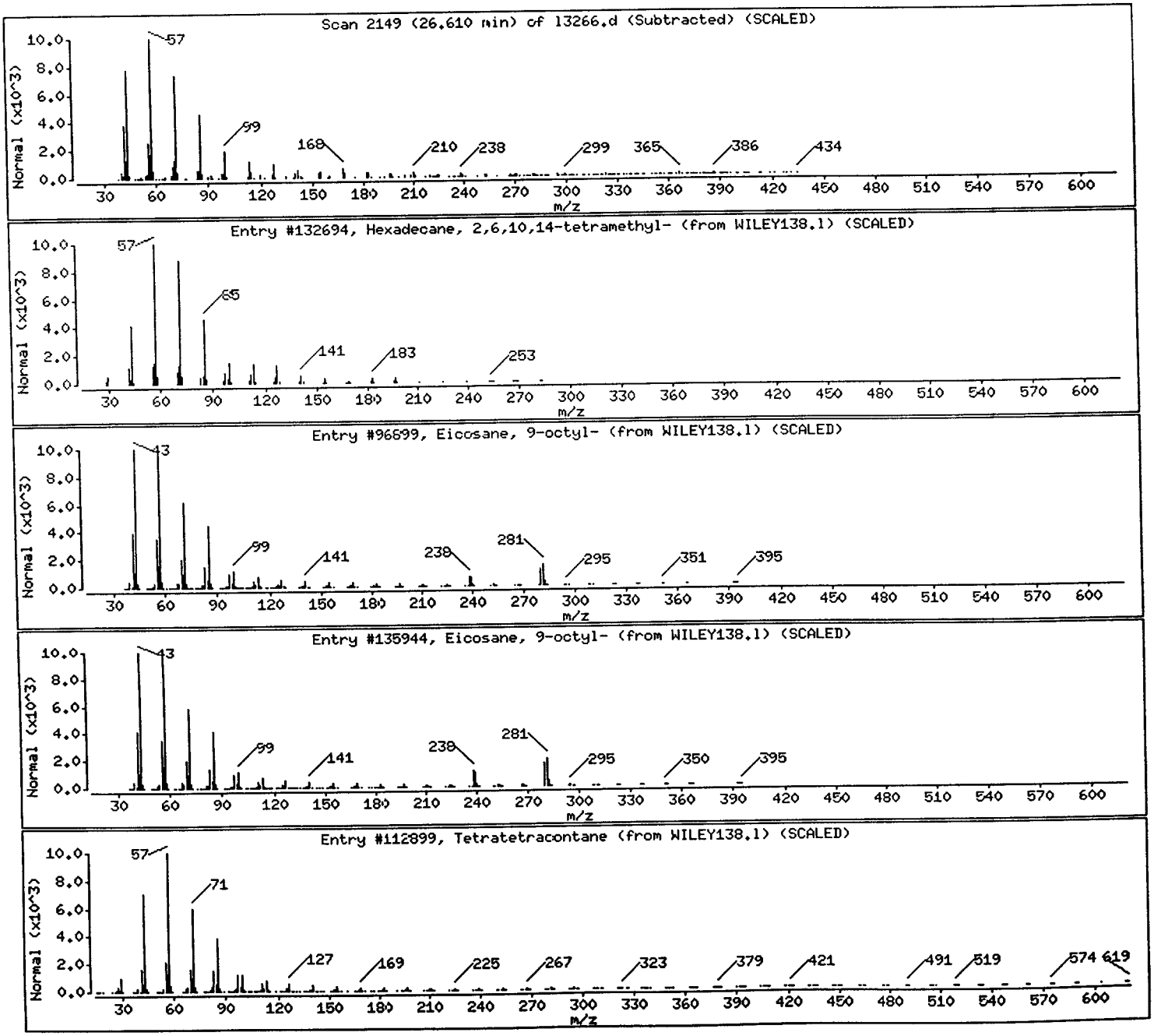
Sample Info: 237825;30;2;5;0.2

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Hexadecane, 2,6,10,14-tetramethyl-	638-36-8	WILEY138.l	132694	93	C20H42	282
Eicosane, 9-octyl-	13475-77-9	WILEY138.l	96899	90	C28H58	394
Eicosane, 9-octyl-	13475-77-9	WILEY138.l	135944	90	C28H58	394
Tetratetracontane	7098-22-8	WILEY138.l	112899	87	C44H90	619



Client ID: RC-2_3rd_Flr
Site: Rexam DSI

Lab Sample No: 237826
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13268.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 50.0 ml
Dilution Factor: 5.0
% Moisture: 4

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
N-Nitrosodimethylamine	ND	43000
bis(2-Chloroethyl)ether	ND	4300
1,3-Dichlorobenzene	ND	43000
1,4-Dichlorobenzene	ND	43000
1,2-Dichlorobenzene	ND	43000
bis(2-chloroisopropyl)ether	ND	43000
N-Nitroso-di-n-propylamine	ND	4300
Hexachloroethane	ND	4300
Nitrobenzene	ND	4300
Isophorone	ND	43000
bis(2-Chloroethoxy)methane	ND	43000
1,2,4-Trichlorobenzene	ND	4300
Naphthalene	ND	43000
Hexachlorobutadiene	ND	8700
Hexachlorocyclopentadiene	ND	43000
2-Chloronaphthalene	ND	43000
Dimethylphthalate	ND	43000
Acenaphthylene	ND	43000
2,6-Dinitrotoluene	ND	8700
Acenaphthene	ND	43000
2,4-Dinitrotoluene	ND	8700
Diethylphthalate	ND	43000
4-Chlorophenyl-phenylether	ND	43000
Fluorene	ND	43000
N-Nitrosodiphenylamine	ND	43000
4-Bromophenyl-phenylether	ND	43000
Hexachlorobenzene	ND	4300
Phenanthrene	1000 J	43000
Anthracene	ND	43000
Di-n-butylphthalate	ND	43000
Fluoranthene	2500 J	43000
Pyrene	5400 J	43000
Benzidine	ND	170000
Butylbenzylphthalate	ND	43000

Client ID: **RC-2_3rd_Flr**
Site: Rexam DSI

Lab Sample No: **237826**
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3268.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 50.0 ml
Dilution Factor: 5.0
% Moisture: 4

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
3,3'-Dichlorobenzidine	ND	87000
Benzo(a)anthracene	ND	4300
Chrysene	ND	43000
bis(2-Ethylhexyl)phthalate	ND	43000
Di-n-octylphthalate	15000 J	43000
Benzo(b)fluoranthene	ND	4300
Benzo(k)fluoranthene	ND	4300
Benzo(a)pyrene	ND	4300
Indeno(1,2,3-cd)pyrene	ND	4300
Dibenz(a,h)anthracene	ND	4300
Benzo(g,h,i)perylene	ND	43000

Client ID: **RC-2_3rd_Flr**
Site: Rexam DSI

Lab Sample No: **237826**
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3268.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 50.0 ml
Dilution Factor: 5.0
% Moisture: 4.2

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. Unknown	28.12	140000	
2. Unknown	28.80	140000	
3. Unknown	29.05	310000	
4. Unknown	29.62	400000	
5. Unknown	30.30	250000	
6. Unknown	30.79	290000	
7. Unknown	31.41	1200000	
8. Unknown	31.58	200000	
9. Unknown	31.84	150000	
10. Unknown	32.24	230000	
11. Unknown	32.56	240000	
12. Unknown	32.85	1200000	
13. Unknown	34.74	370000	
14. Unknown	35.02	230000	
15. Unknown	36.52	190000	
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			
TOTAL ESTIMATED CONCENTRATION		5540000	

Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/l3268.d
Report Date: 31-Oct-2000 11:08

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS7.i/8270/10-27-00/31oct00.b/l3268.d
Lab Smp Id: 237826 Client Smp ID: RC-2_3rd_Flr
Inj Date : 31-OCT-2000 08:38
Operator : BNAMS 4 Inst ID: BNAMS7.i
Smp Info : 237826;30;50;5;4.2
Misc Info : F104;PPBN+15;6924;114
Comment :
Method : /chem/BNAMS7.i/8270/10-27-00/31oct00.b/8270C1.m
Meth Date : 31-Oct-2000 06:58 acierno Quant Type: ISTD
Cal Date : 27-OCT-2000 12:29 Cal File: l3224.d
Als bottle: 4
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: PPBNb.sub
Target Version: 3.50
Processing Host: hpd1

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	50.00000	Volume of final extract (ml)
Ws	30.00000	Weight of sample extracted (g)
M	4.20000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 79 1,4-Dichlorobenzene-d4	152	13.176	13.180	(1.000)	297476	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	14.117	14.142	(0.919)	4706	0.37023	3200(a)
* 80 Naphthalene-d8	136	15.354	15.358	(1.000)	1228856	40.0000	
$ 77 2-Fluorobiphenyl (SUR)	172	17.144	17.158	(0.937)	7305	0.38867	3400(a)
* 82 Acenaphthene-d10	164	18.299	18.303	(1.000)	691318	40.0000	
* 83 Phenanthrene-d10	188	20.774	20.788	(1.000)	1235983	40.0000	
52 Phenanthrene	178	20.814	20.829	(1.002)	3647	0.12055	1000(a)
56 Fluoranthene	202	22.798	22.802	(1.097)	9196	0.28517	2500(a)
57 Pyrene	202	23.187	23.191	(0.917)	16643	0.62757	5400(a)
$ 78 Terphenyl-d14 (SUR)	244	23.412	23.405	(0.926)	10023	0.49258	4300(a)
* 81 Chrysene-d12	240	25.293	25.266	(1.000)	1001717	40.0000	
64 Di-n-octylphthalate	149	26.469	26.626	(0.913)	65615	1.68995	15000(a)
* 84 Perylene-d12	264	29.189	29.050	(1.000)	721266	40.0000	(H)

Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/l3268.d
Report Date: 31-Oct-2000 11:08

QC Flag Legend

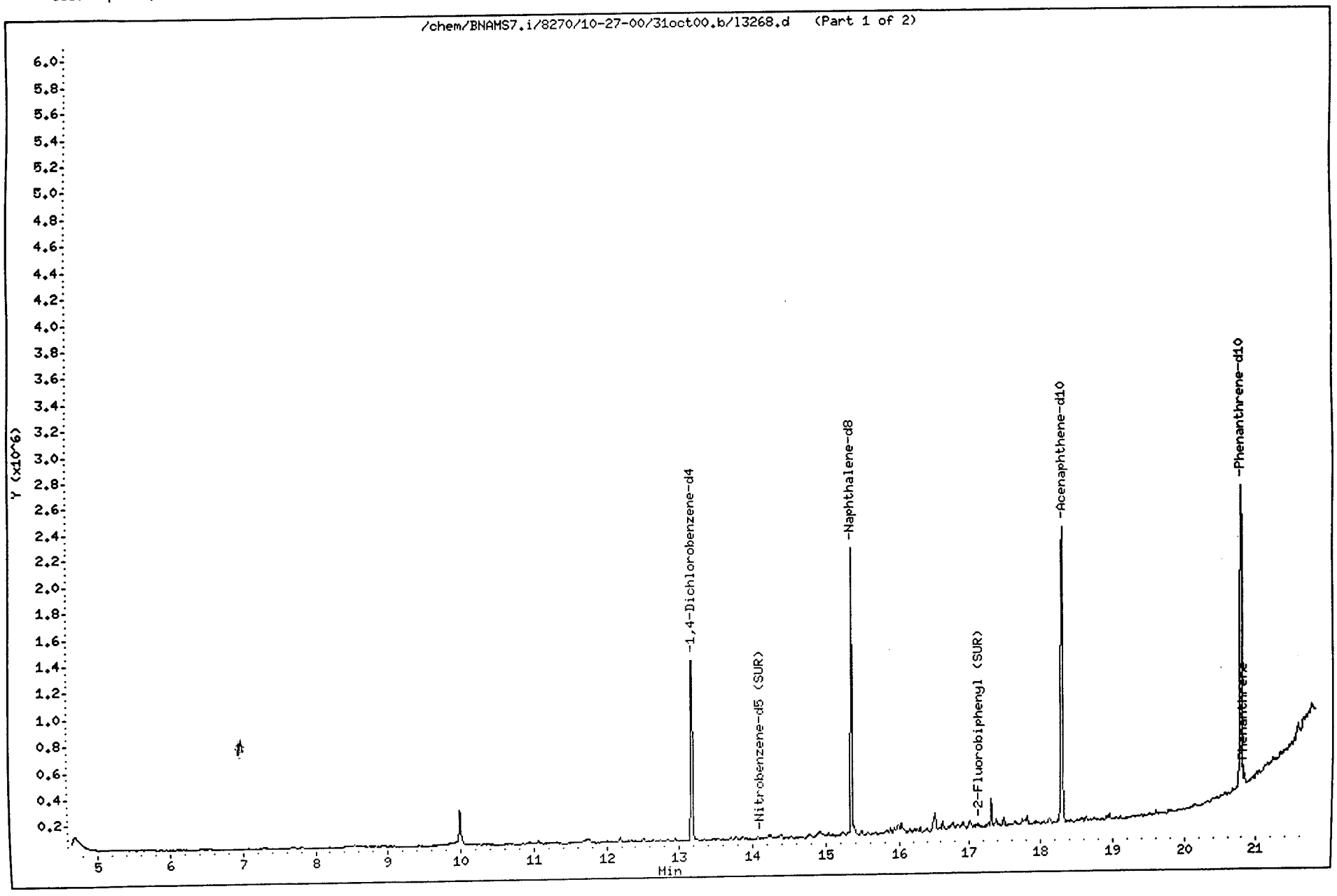
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.

Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13268.d
Date : 31-OCT-2000 08:38
Client ID: RC-2_3rd_Flr
Sample Info: 237826;30;50;5;4.2

Instrument: BNAMS7.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5

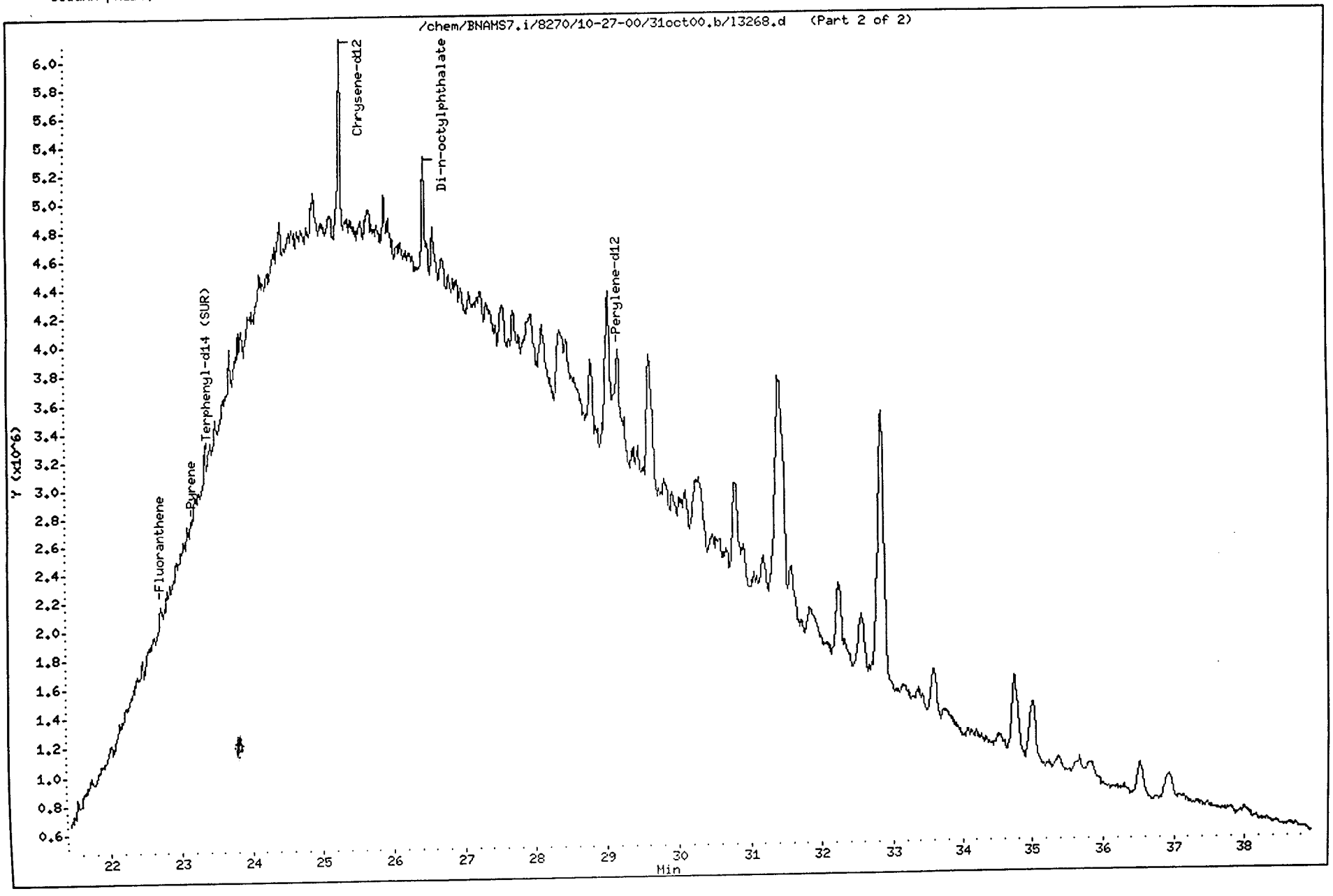


Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13268.d
Date : 31-OCT-2000 08:38
Client ID: RC-2_3rd_Flr
Sample Info: 237826;30;50;5;4.2

Instrument: BNAMS7.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5



Data File: /chem/BNAHS7.i/8270/10-27-00/31oct00.b/13268.d

Date : 31-OCT-2000 08:38

Client ID: RC-2_3rd_Flr

Instrument: BNAHS7.i

Sample Info: 237826;30;50;5;4.2

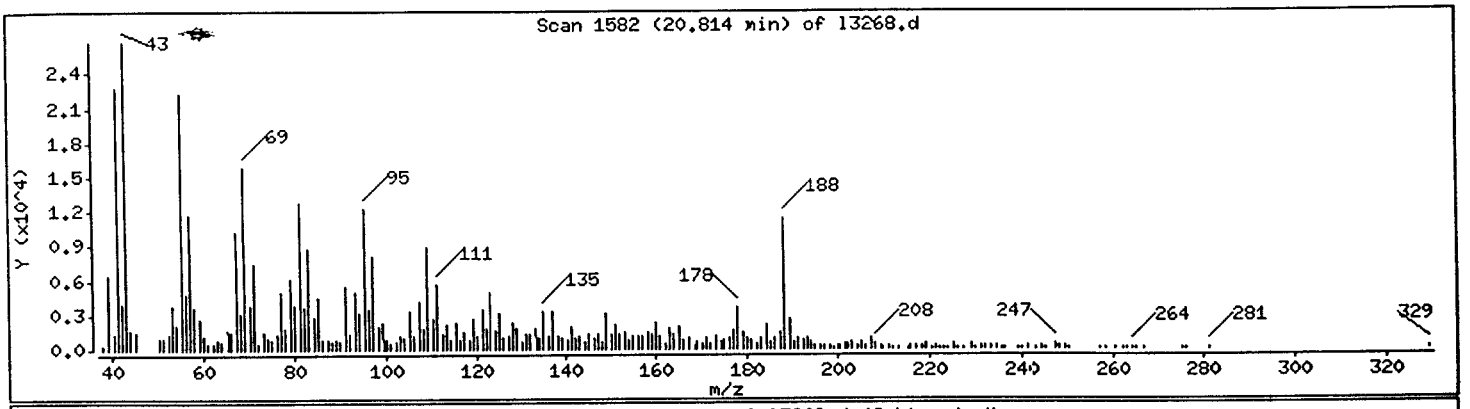
Operator: BNAHS 4

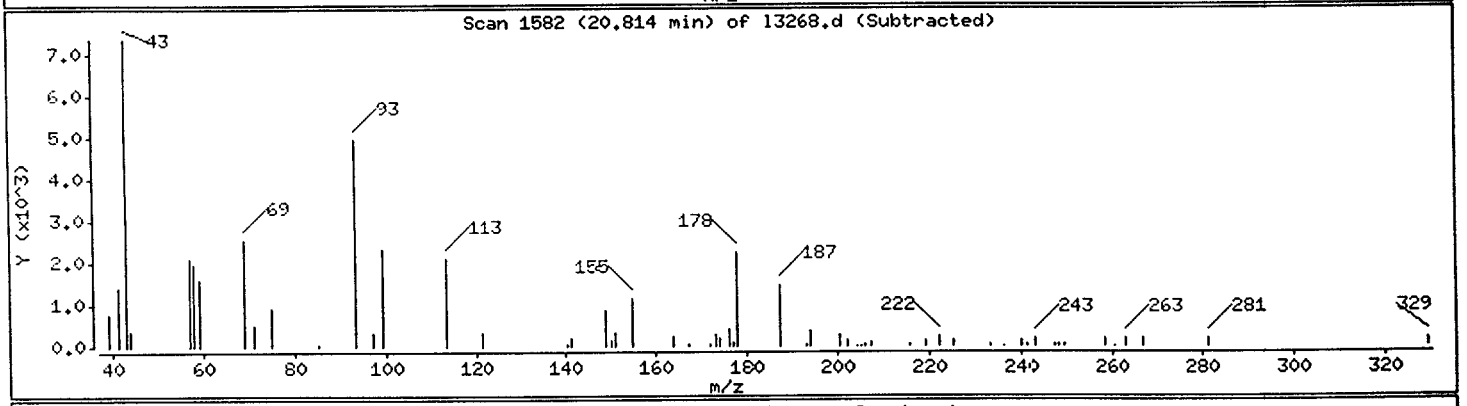
Column phase: DB-5

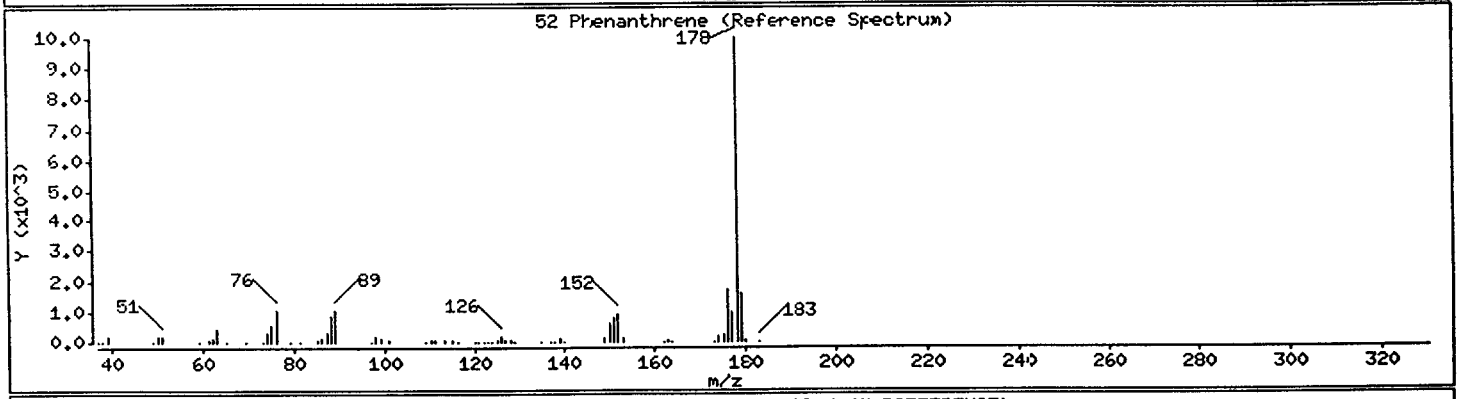
Column diameter: 0.25

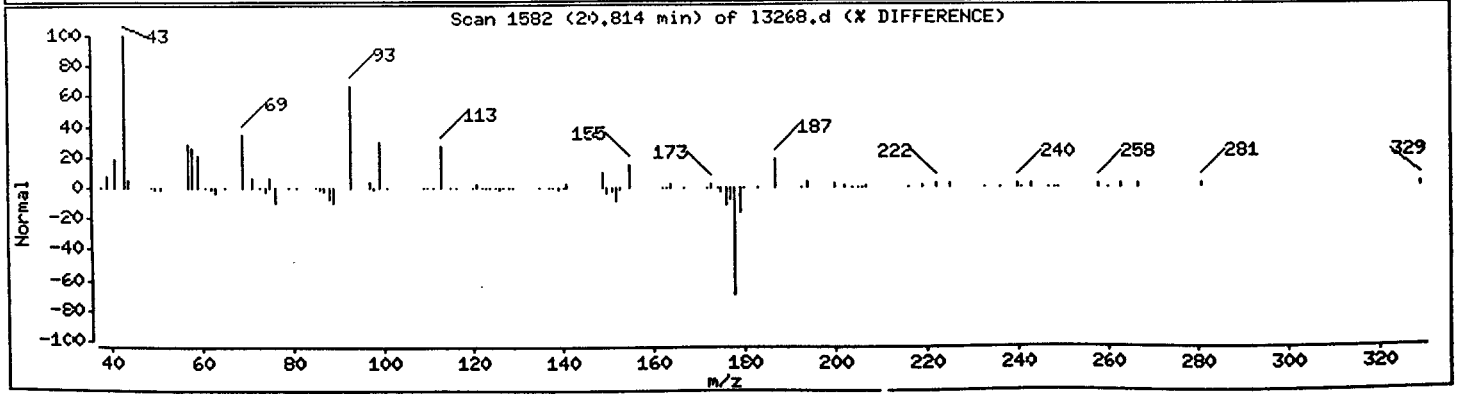
52 Phenanthrene

Concentration: 1000 ug/Kg









Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13268.d

Date : 31-OCT-2000 08:38

Client ID: RC-2_3rd_Flr

Instrument: BNAMS7.i

Sample Info: 237826;30;50;5;4.2

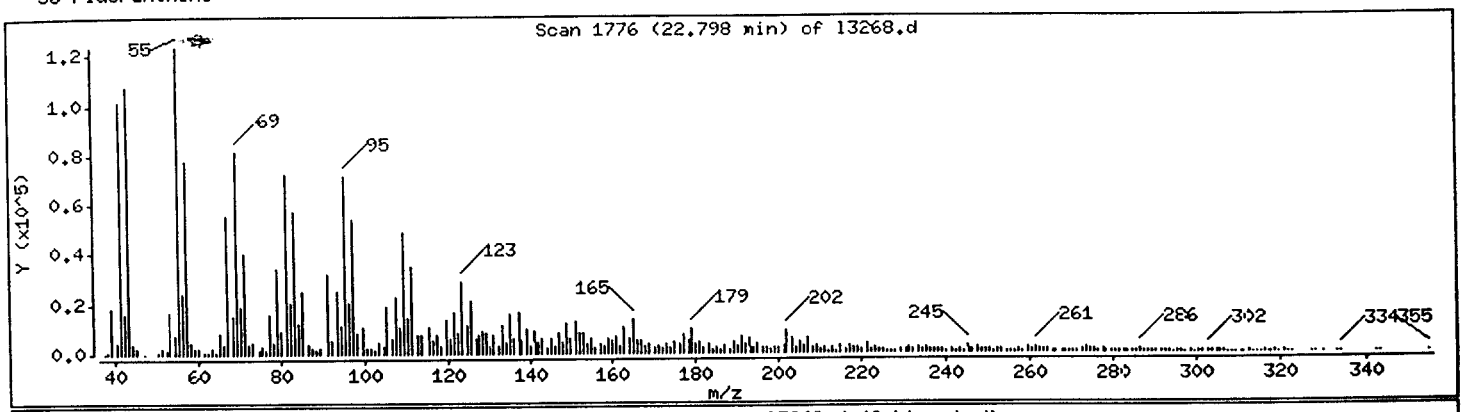
Operator: BNAMS 4

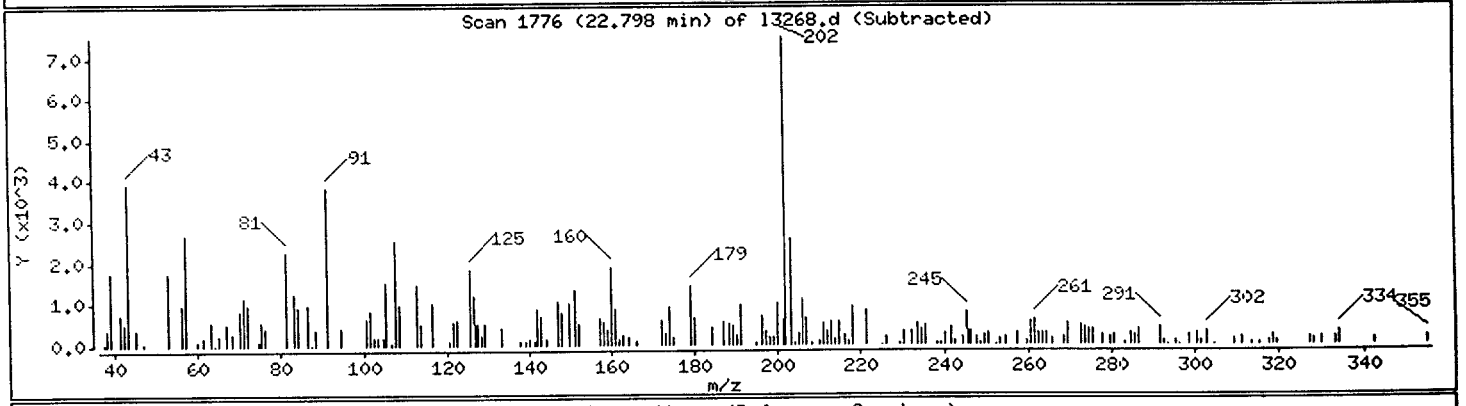
Column phase: DB-5

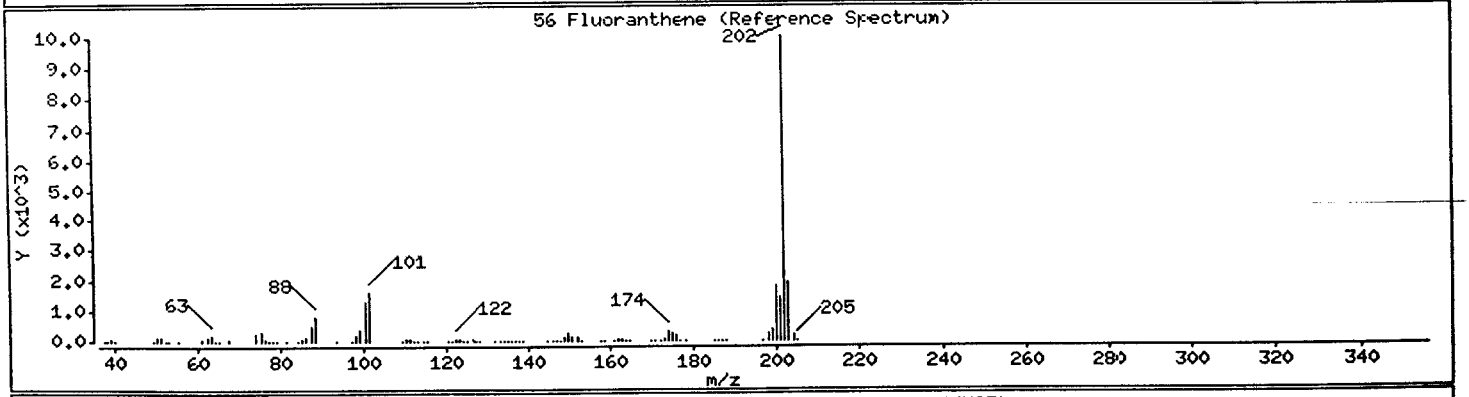
Column diameter: 0.25

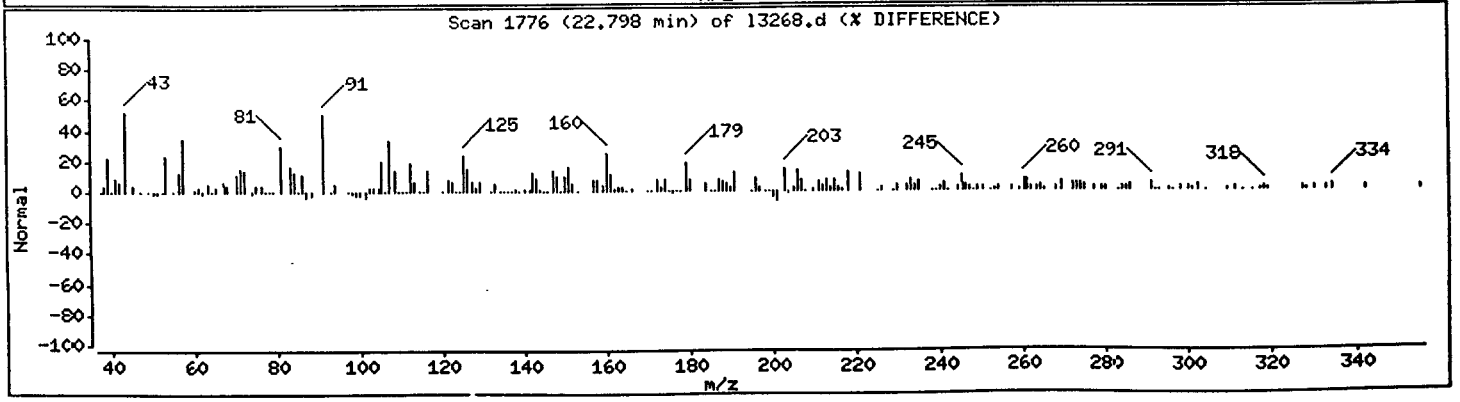
56 Fluoranthene

Concentration: 2500 ug/Kg









Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13268.d

Date : 31-OCT-2000 08:38

Client ID: RC-2_3rd_Flr

Instrument: BNAMS7.i

Sample Info: 237826;30;50;5;4.2

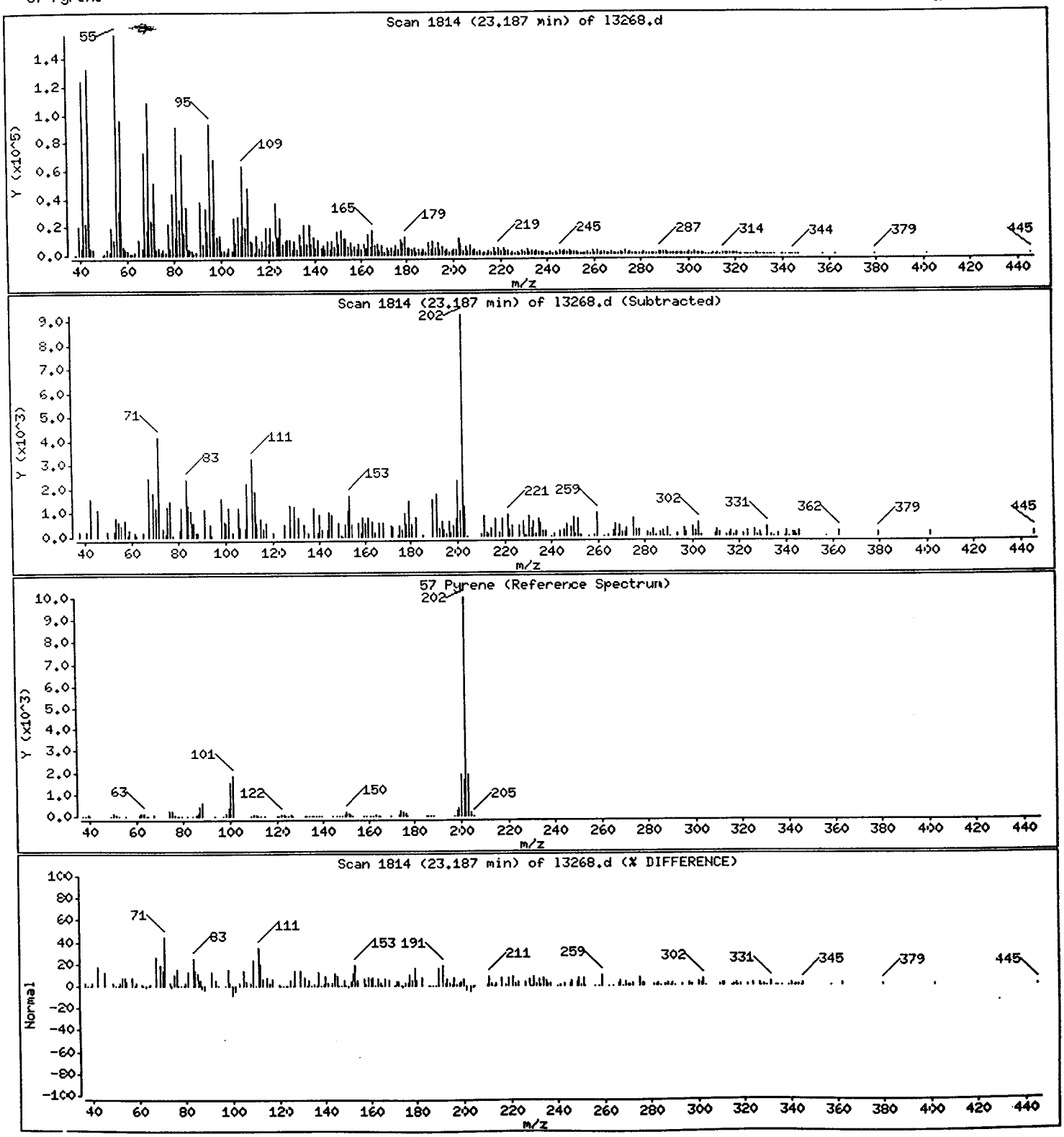
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

57 Pyrene

Concentration: 5400 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13268.d

Date : 31-OCT-2000 08:38

Client ID: RC-2_3rd_Flr

Instrument: BNAMS7.i

Sample Info: 237826;30;50;5;4.2

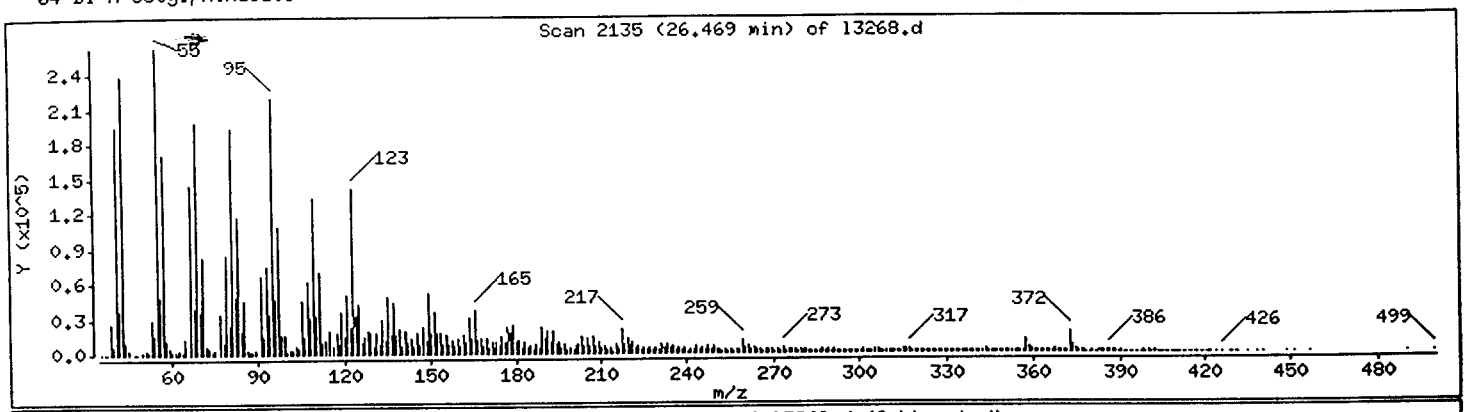
Operator: BNAMS 4

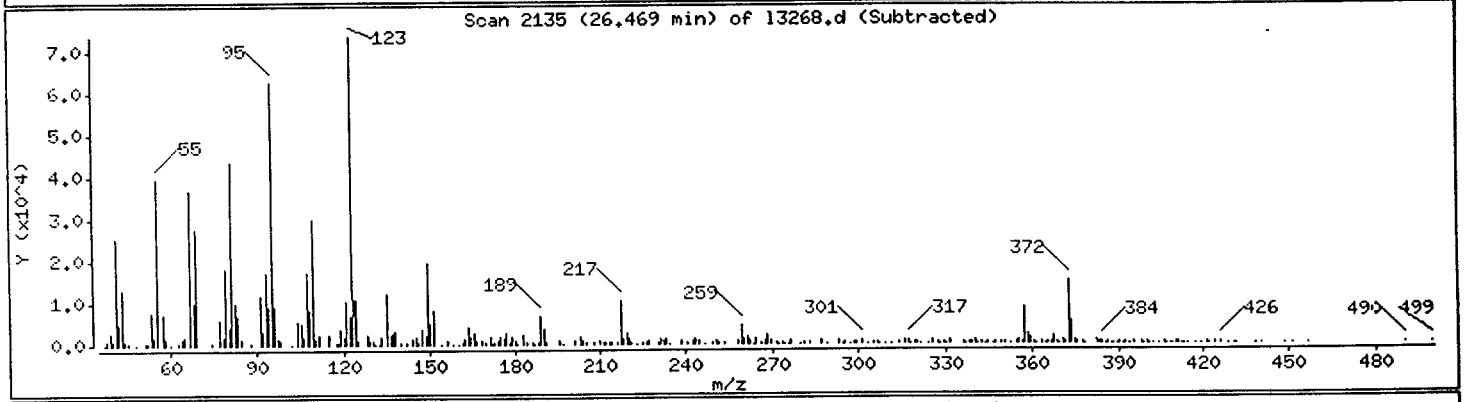
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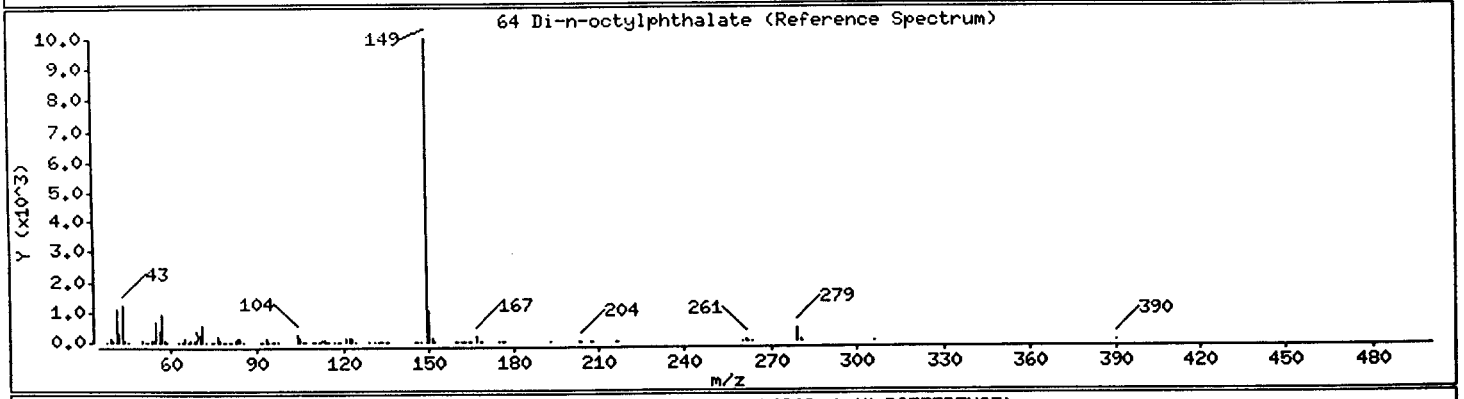
Column diameter: 0.25

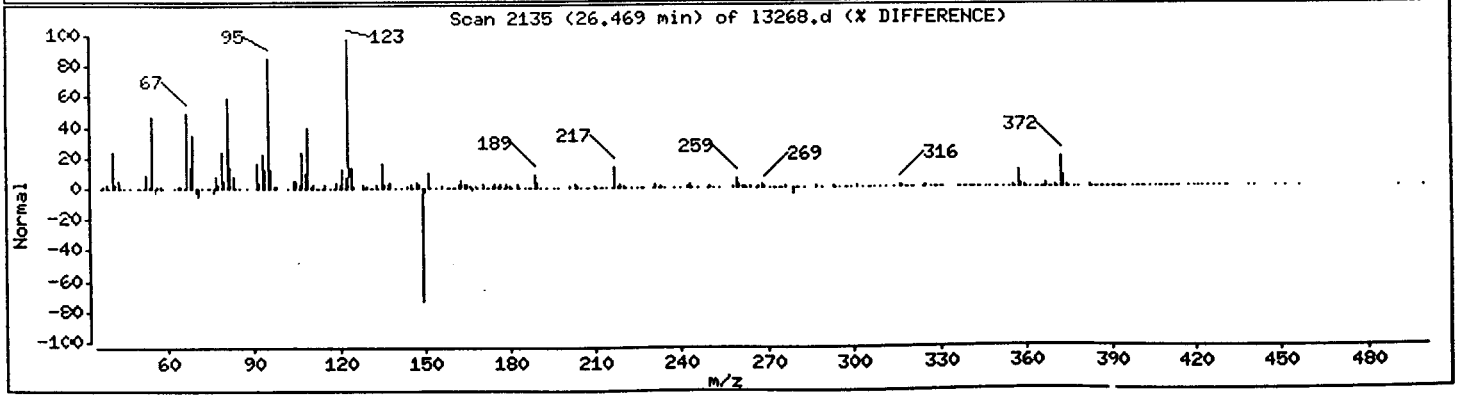
64 Di-n-octylphthalate

Concentration: 15000 ug/Kg









Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13268.d

Date : 31-OCT-2000 08:38

Client ID: RC-2_3rd_Flr

Instrument: BNAMS7.i

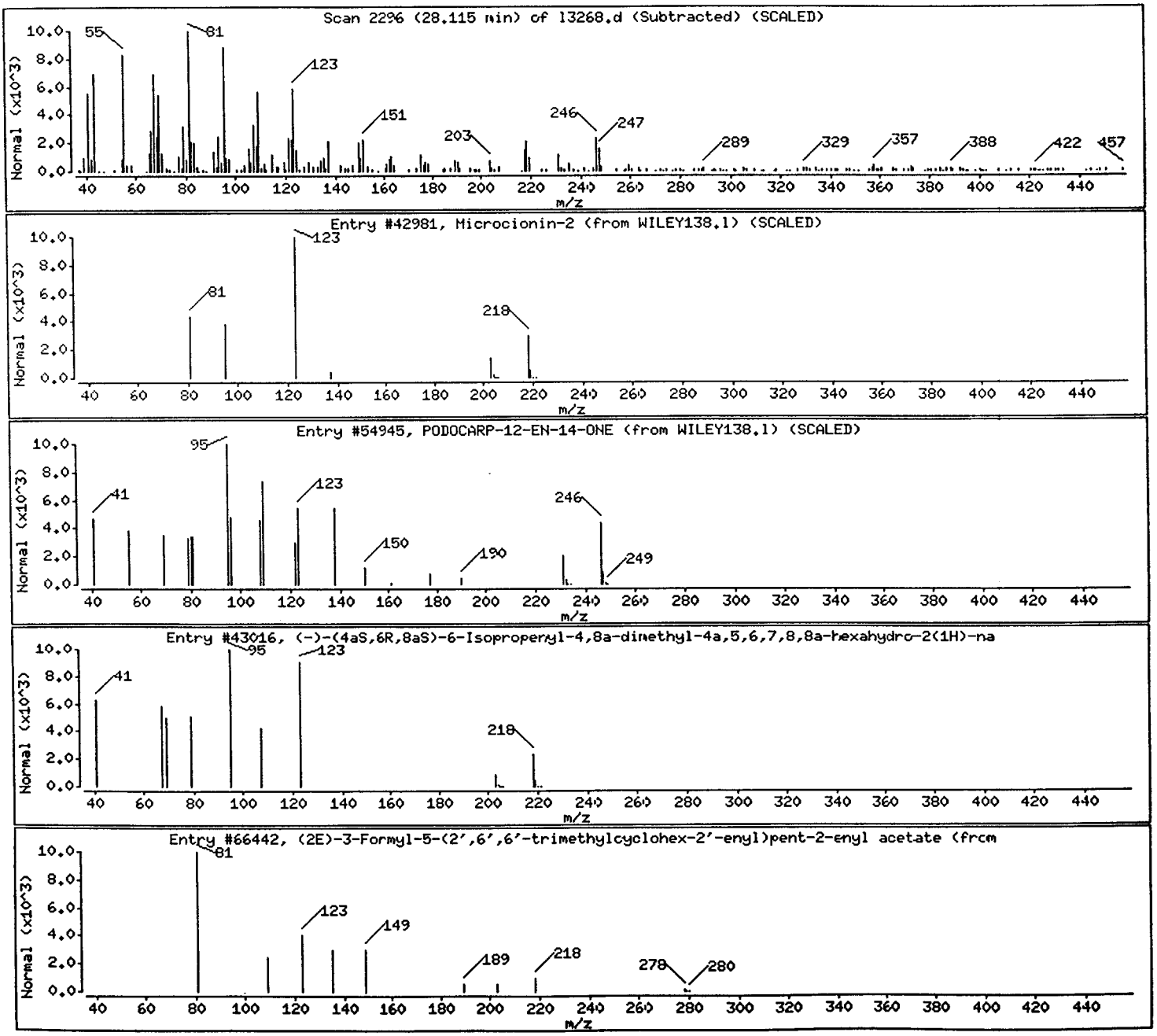
Sample Info: 237826;30;50;5;4.2

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Microcionin-2	59805-78-6	WILEY138.l	42981	46	C15H220	218
PODOCARP-12-EN-14-ONE	57684-15-8	WILEY138.l	54945	42	C17H260	246
(-)-(4aS,6R,8aS)-6-Isopropenyl-4,8a-dime	86917-80-8	WILEY138.l	43016	38	C15H220	218
(2E)-3-Formyl-5-(2',6',6'-trimethylcyclo	79689-23-9	WILEY138.l	66442	35	C17H2603	278



Data File: /chem/BNAHS7.i/8270/10-27-00/31oct00.b/13268.d

Date : 31-OCT-2000 08:38

Client ID: RC-2_3rd_Flr

Instrument: BNAHS7.i

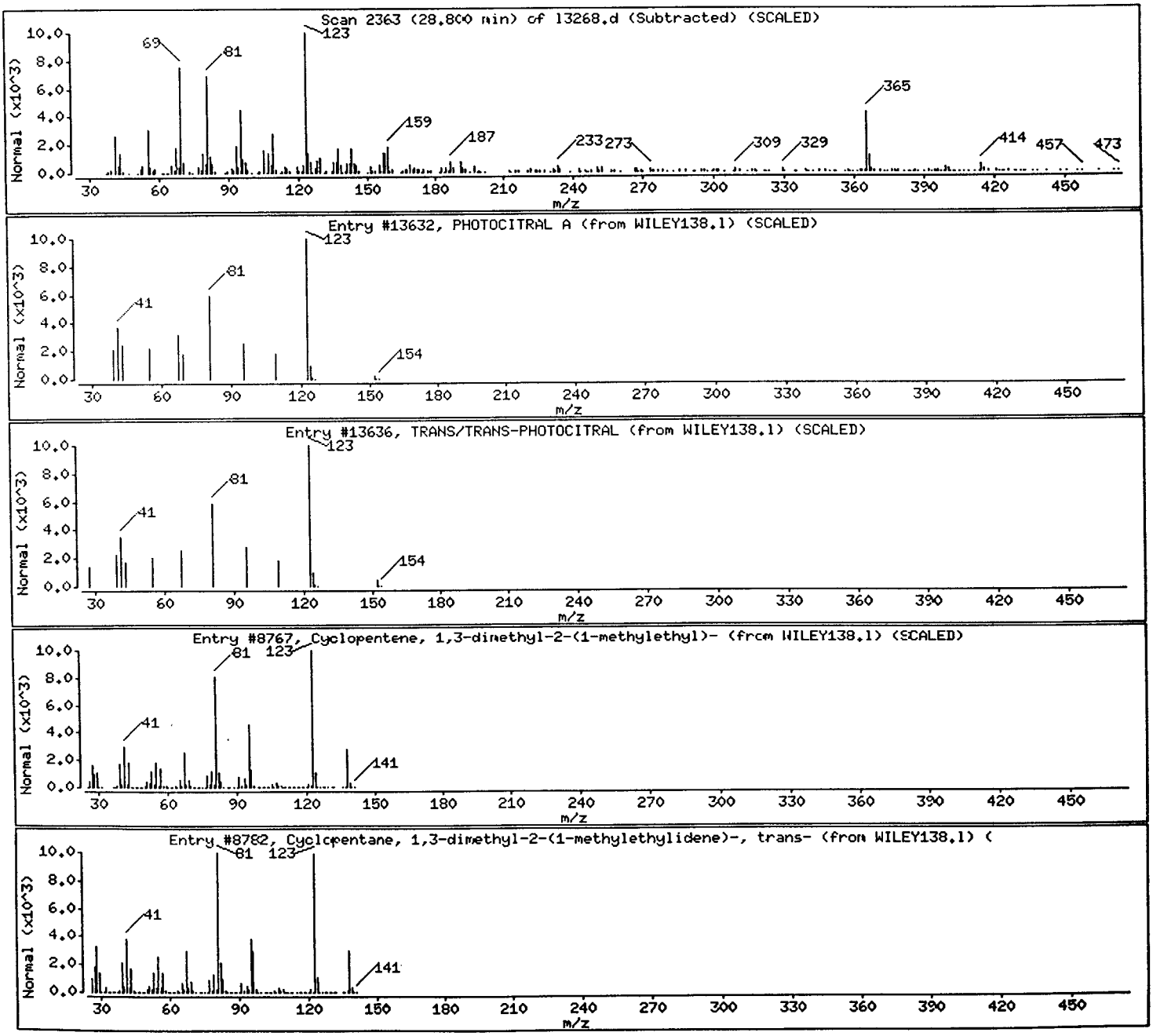
Sample Info: 237826;30;50;5;4.2

Operator: BNAHS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
PHOTOCITRAL A	55253-27-5	WILEY138.l	13632	35	C10H16O	152
TRANS/TRANS-PHOTOCITRAL	55253-27-5	WILEY138.l	13636	32	C10H16O	152
Cyclopentene, 1,3-dimethyl-2-(1-methylet	61142-32-3	WILEY138.l	8767	27	C10H18	138
Cyclopentane, 1,3-dimethyl-2-(1-methylet	61142-30-1	WILEY138.l	8782	27	C10H18	138



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13268.d

Date : 31-OCT-2000 08:38

Client ID: RC-2_3rd_Flr

Instrument: BNAMS7.i

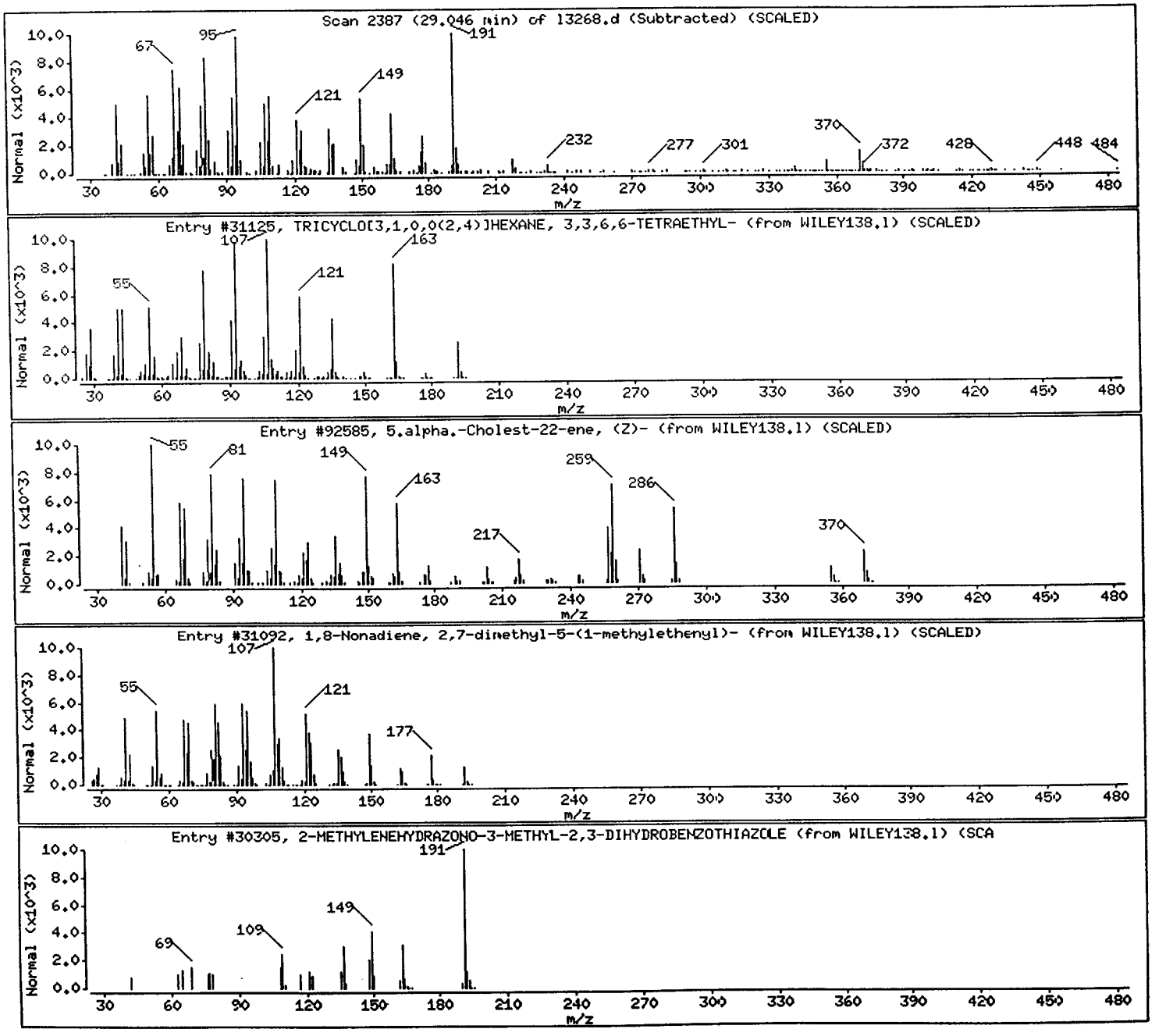
Sample Info: 237826;30;50;5;4.2

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
TRICYCLO[3,1,0,0(2,4)]HEXANE, 3,3,6,6-TE	78578-92-4	WILEY138.1	31125	53	C14H24	192
5.alpha.-Cholest-22-ene, (Z)-	15076-93-4	WILEY138.1	92585	42	C27H46	370
1,8-Nonadiene, 2,7-dimethyl-5-(1-methyle	68702-20-5	WILEY138.1	31092	38	C14H24	192
2-METHYLENEHYDRAZONO-3-METHYL-2,3-DIHYDR	63149-32-6	WILEY138.1	30305	30	C9H9N3S	191



Data File: /chem/BNAHS7.i/8270/10-27-00/31oct00.b/13268.d

Date : 31-OCT-2000 08:38

Client ID: RC-2_3rd_Flr

Instrument: BNAHS7.i

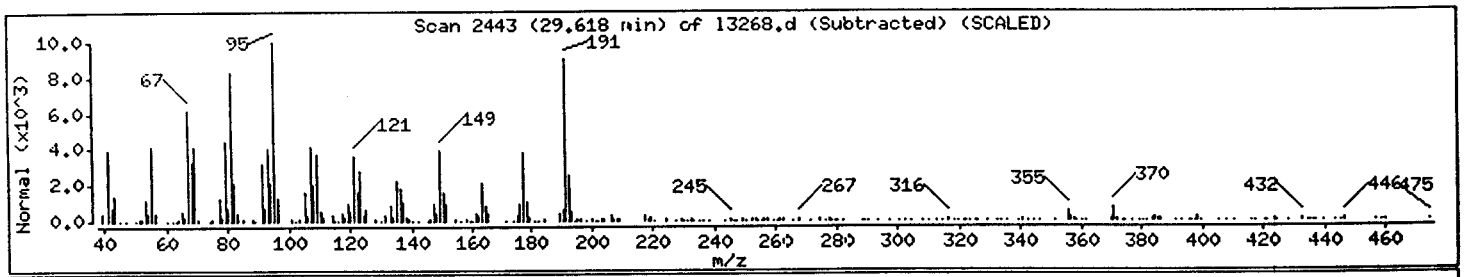
Sample Info: 237826;30;50;5;4.2

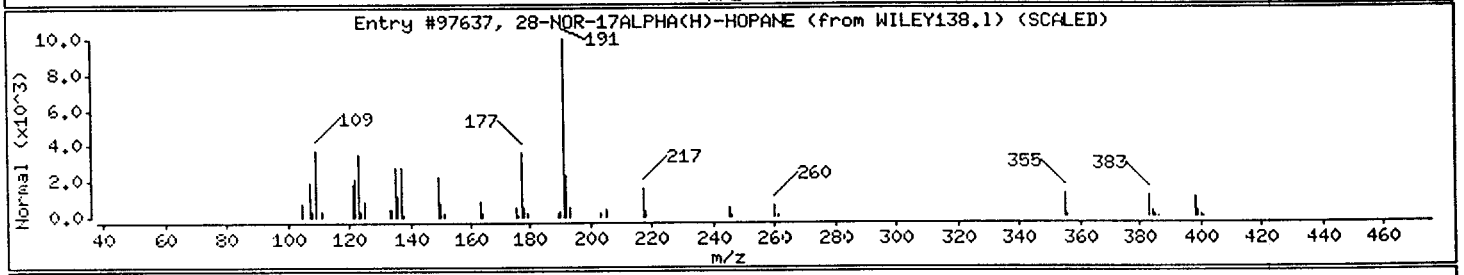
Operator: BNAHS 4

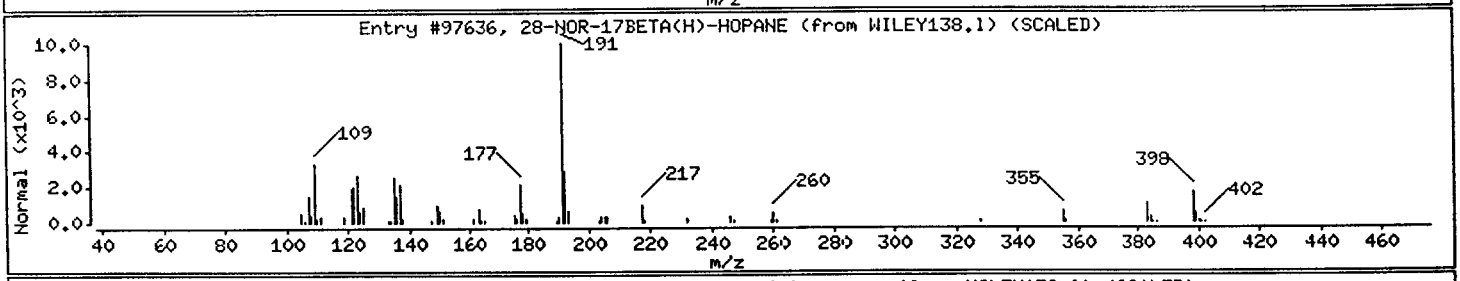
Column phase: DB-5

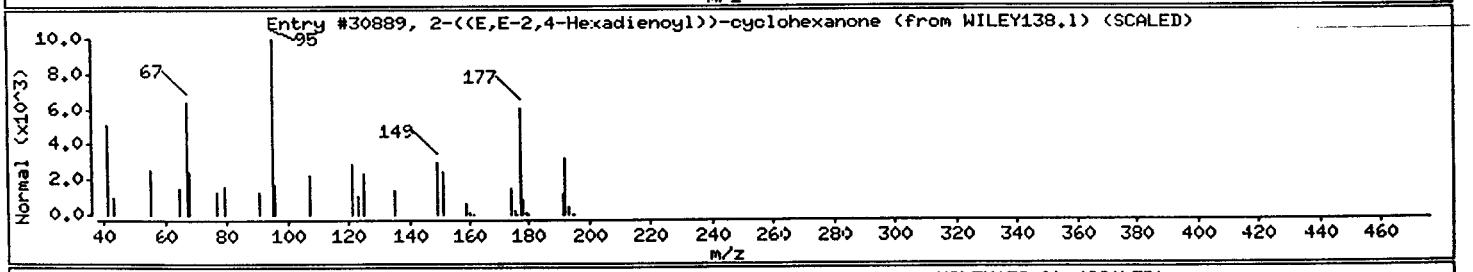
Column diameter: 0.25

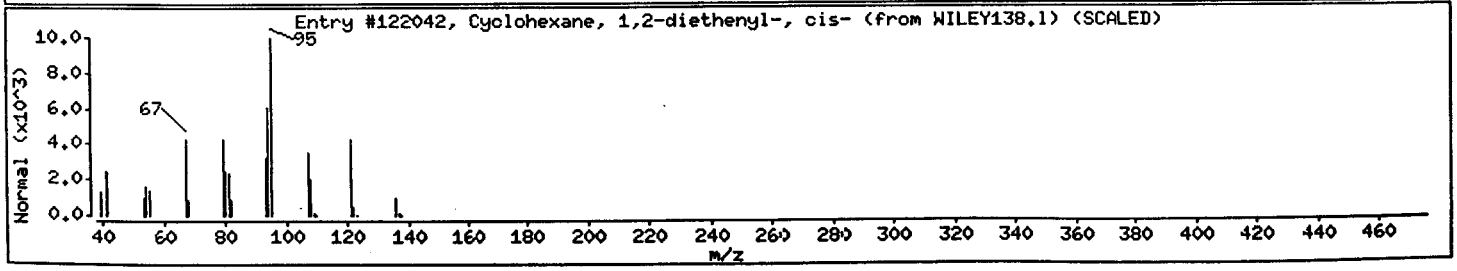
Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
28-NOR-17ALPHA(H)-HOPANE	53584-60-4	WILEY138.l	97637	53	C29H50	398
28-NOR-17BETA(H)-HOPANE	36728-72-0	WILEY138.l	97636	49	C29H50	398
2-((E,E-2,4-Hexadienoyl))-cyclohexanone	88924-70-3	WILEY138.l	30889	30	C12H16O2	192
Cyclohexane, 1,2-diethenyl-, cis-	1004-84-8	WILEY138.l	122042	27	C10H16	136











Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13268.d

Date : 31-OCT-2000 08:38

Client ID: RC-2_3rd_Flr

Instrument: BNAMS7.i

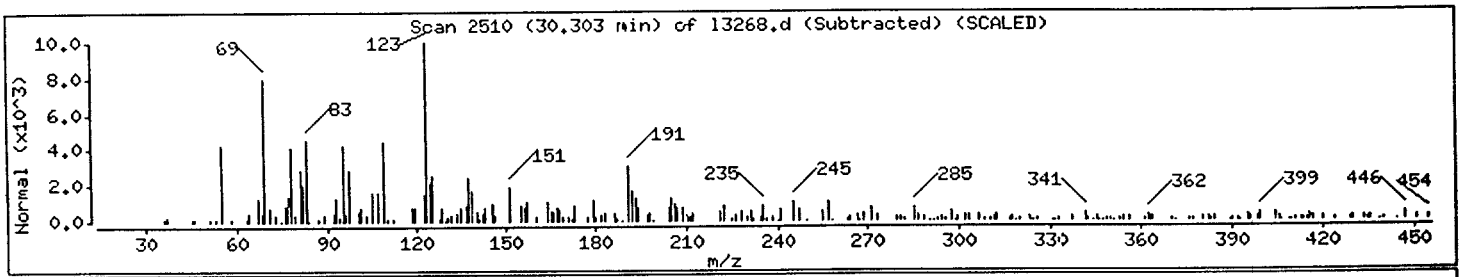
Sample Info: 237826;30;50;5;4.2

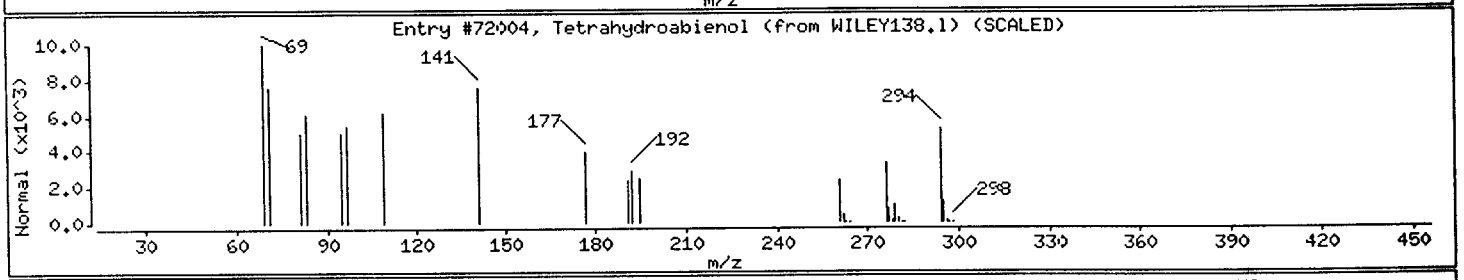
Operator: BNAMS 4

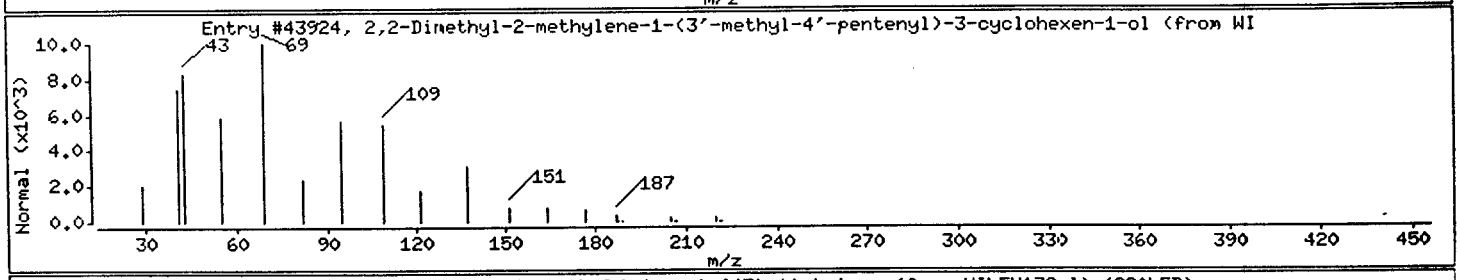
Column phase: DB-5

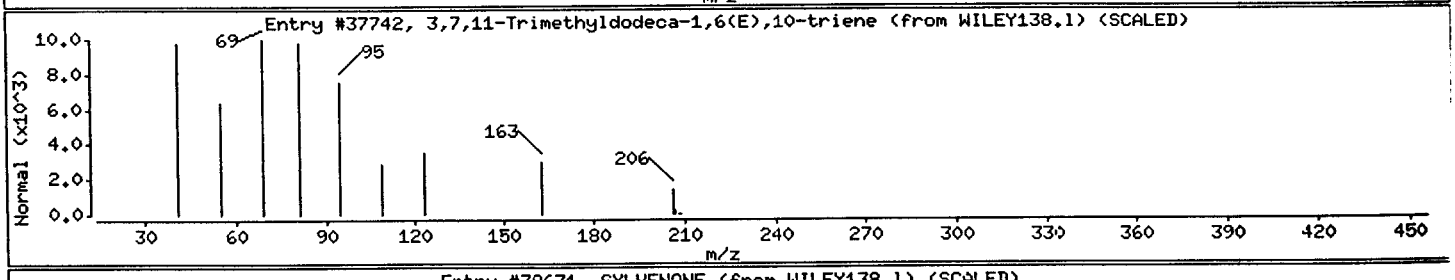
Column diameter: 0.25

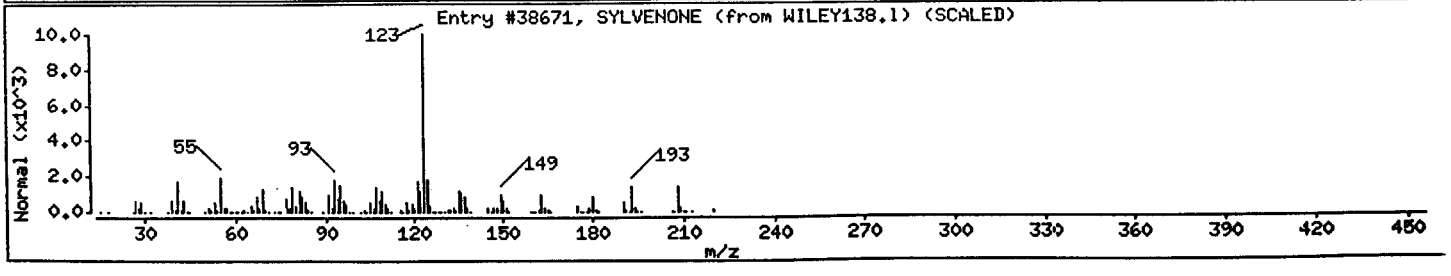
Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Tetrahydroabienol	10267-20-6	WILEY138.l	72004	43	C20H38O	294
2,2-Dimethyl-2-methylene-1-(3'-methyl-4'	79861-99-7	WILEY138.l	43924	38	C15H24O	220
3,7,11-Trimethyldodeca-1,6(E),10-triene	66633-32-7	WILEY138.l	37742	32	C15H26	206
SYLVENONE	0-00-0	WILEY138.l	38671	25	C14H24O	208











Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13268.d

Date : 31-OCT-2000 08:38

Client ID: RC-2_3rd_Flr

Instrument: BNAMS7.i

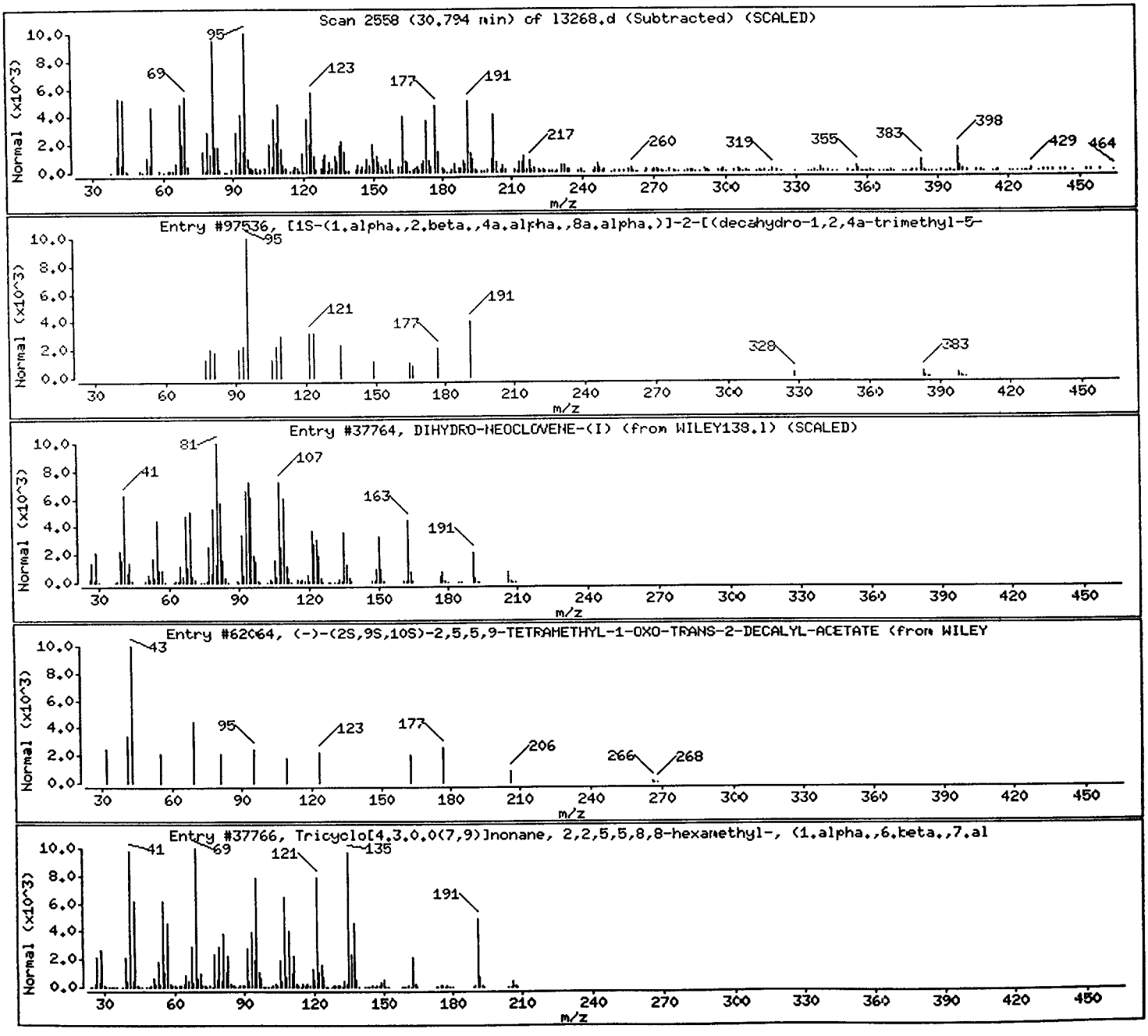
Sample Info: 237826;30;50;5;4.2

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
[1S-(1.alpha.,2.beta.,4a.alpha.,8a.alpha	87764-14-5	WILEY138.1	97536	35	C25H3404	398
DIHYDRO-NEOCLOVENE-(I)	0-00-0	WILEY138.1	37764	35	C15H26	206
(-)-(2S,9S,10S)-2,5,5,9-TETRAMETHYL-1-OX	60113-22-6	WILEY138.1	62064	27	C16H2603	266
Tricyclo[4.3.0.0(7,9)]nonane, 2,2,5,5,8,	54832-82-5	WILEY138.1	37766	27	C15H26	206



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13268.d

Date : 31-OCT-2000 08:38

Client ID: RC-2_3rd_Flr

Instrument: BNAMS7.i

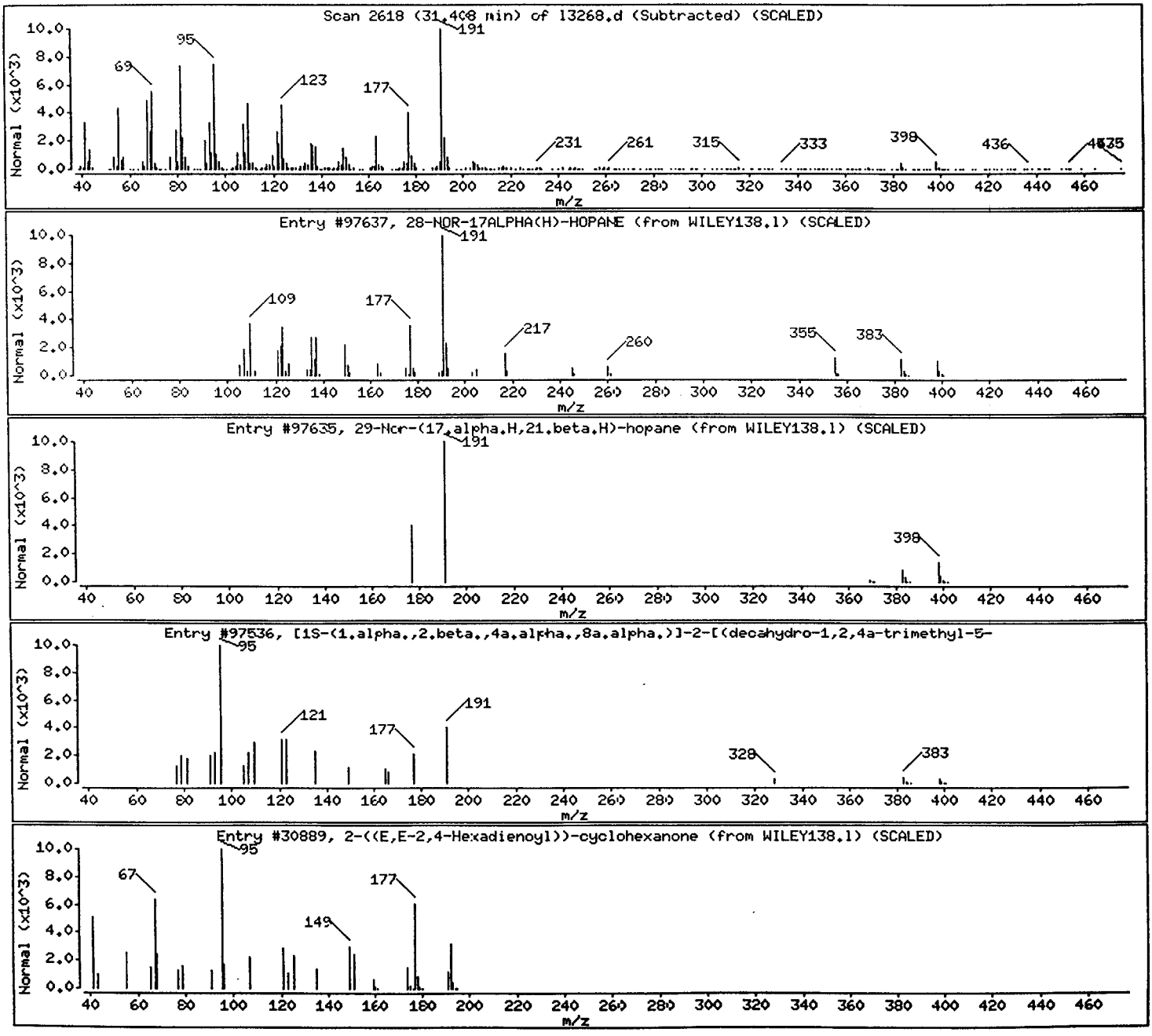
Sample Info: 237826;30;50;5;4.2

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
28-NOR-17ALPHA(H)-HOPANE	53584-60-4	WILEY138.l	97637	87	C29H50	398
29-Nor-(17.alpha.H,21.beta.H)-hopane	0-00-0	WILEY138.l	97635	80	C29H50	398
[1S-(1.alpha.,2.beta.,4a.alpha.,8a.alpha	87764-14-5	WILEY138.l	97536	60	C25H3404	398
2-((E,E-2,4-Hexadienoyl))-cyclohexanone	88924-70-3	WILEY138.l	30889	43	C12H16O2	192



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13268.d

Date : 31-OCT-2000 08:38

Client ID: RC-2_3rd_Flr

Instrument: BNAMS7.i

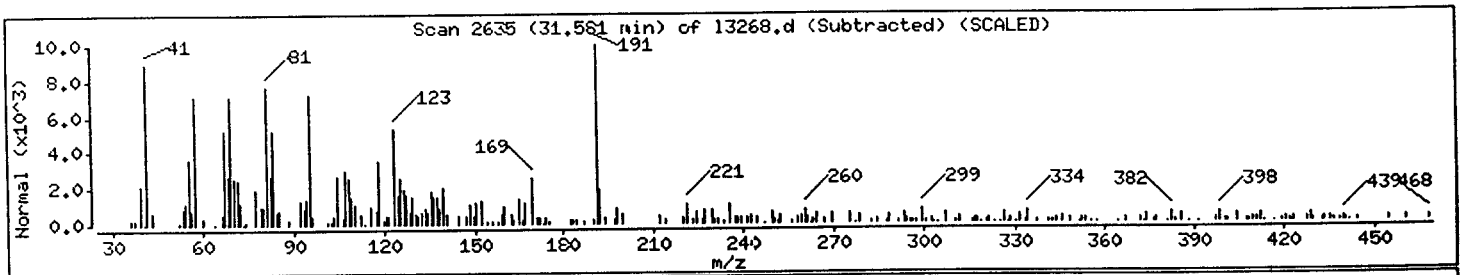
Sample Info: 237826;30;50;5;4.2

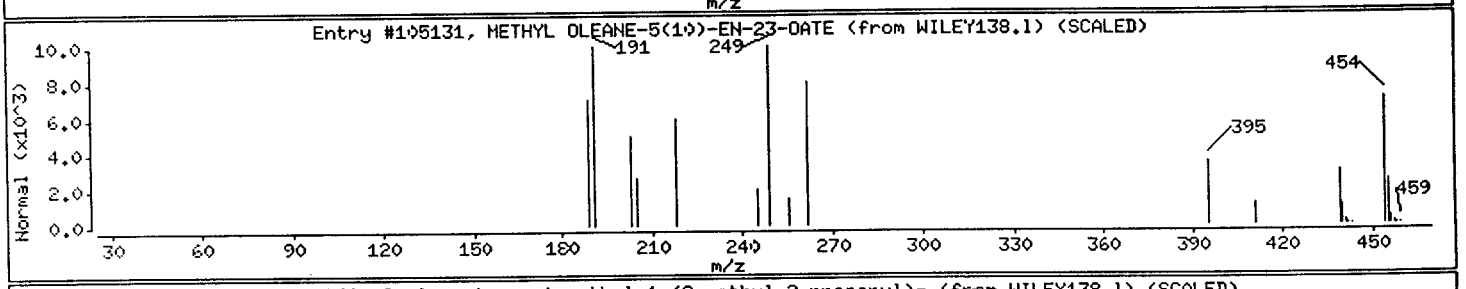
Operator: BNAMS 4

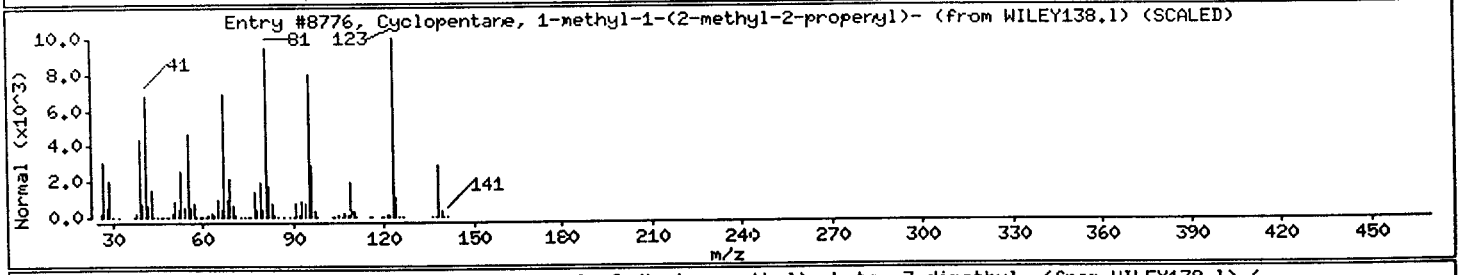
Column phase: DB-5

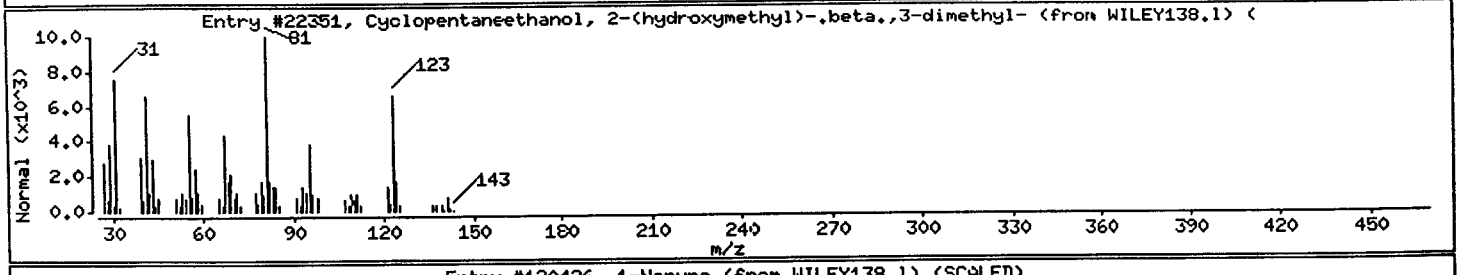
Column diameter: 0.25

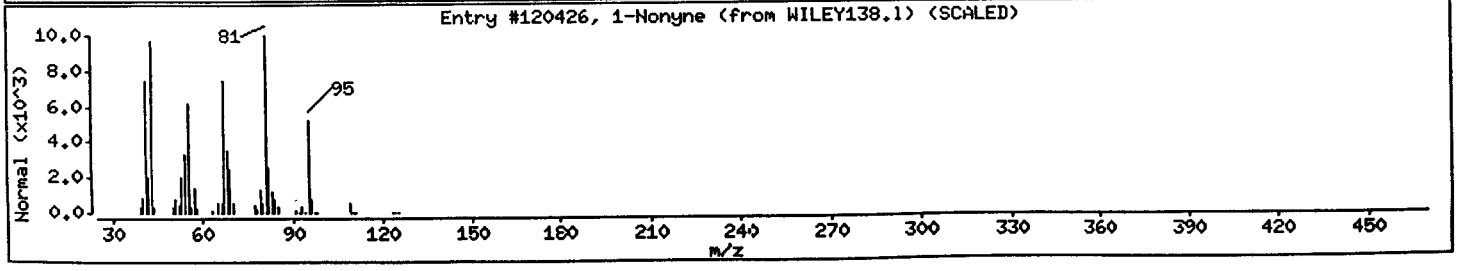
Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
METHYL OLEANE-5(10)-EN-23-OATE	0-00-0	WILEY138.1	105131	92	C31H50O2	454
Cyclopentane, 1-methyl-1-(2-methyl-2-pro	74764-47-9	WILEY138.1	8776	43	C10H18	138
Cyclopentaneethanol, 2-(hydroxymethyl)-.	485-42-7	WILEY138.1	22351	35	C10H20O2	172
1-Nonyne	3452-09-3	WILEY138.1	120426	27	C9H16	124











Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13268.d

Date : 31-OCT-2000 08:38

Client ID: RC-2_3rd_Flr

Instrument: BNAMS7.i

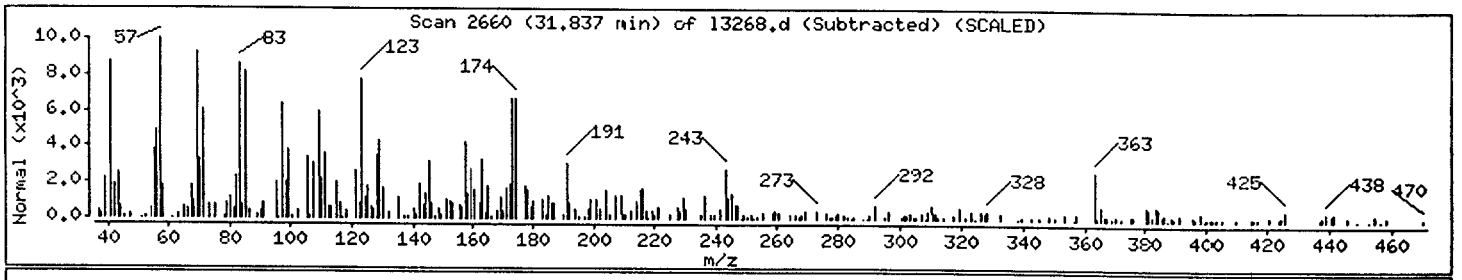
Sample Info: 237826;30;50;5;4.2

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Unknown			0	0		0



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13268.d

Date : 31-OCT-2000 08:38

Client ID: RC-2_3rd_Flr

Instrument: BNAMS7.i

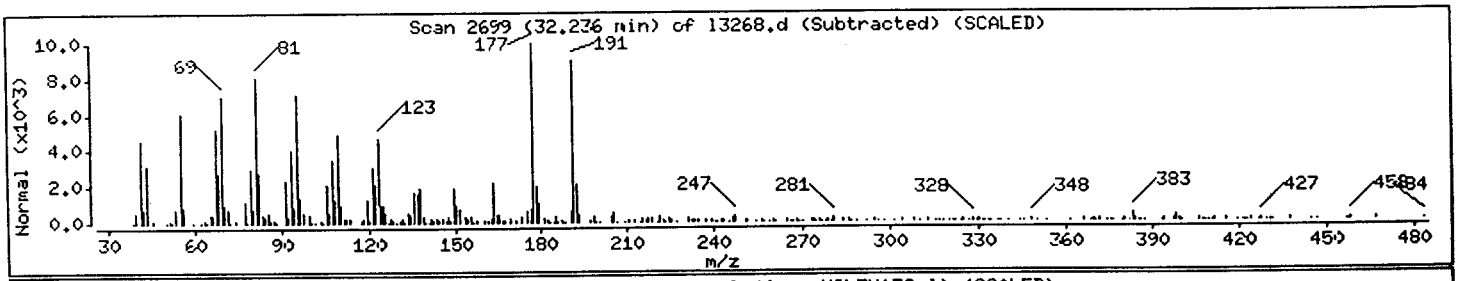
Sample Info: 237826;30;50;5;4.2

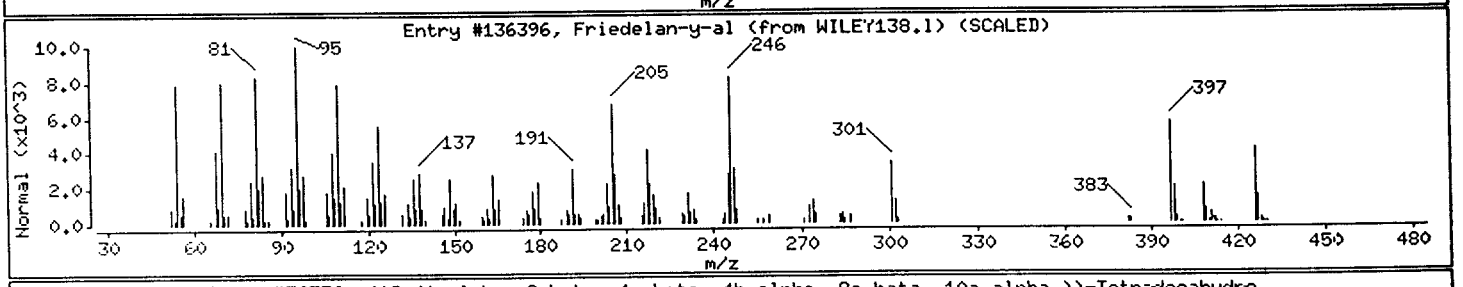
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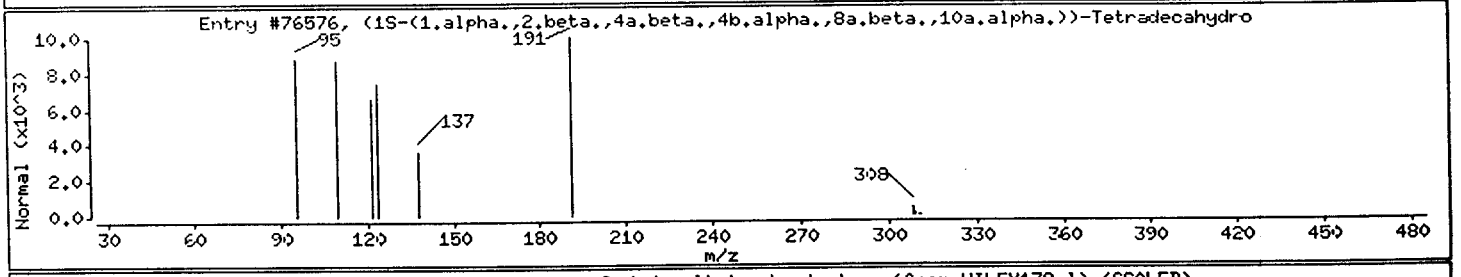
Column phase: DB-5

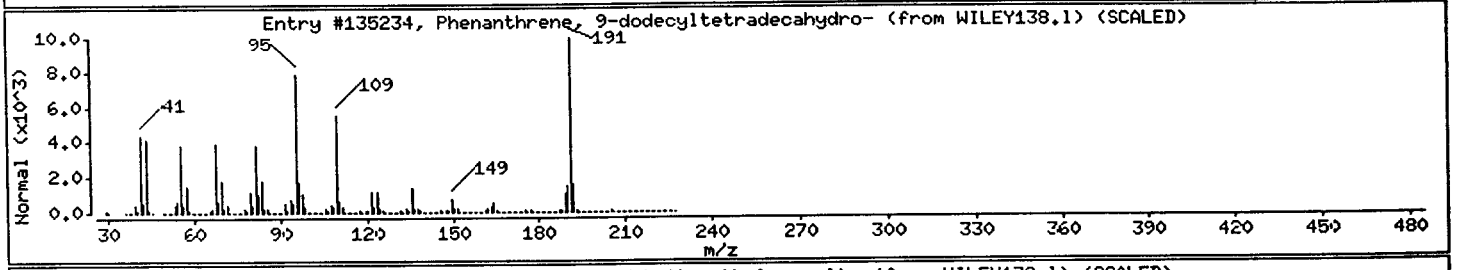
Column diameter: 0.25

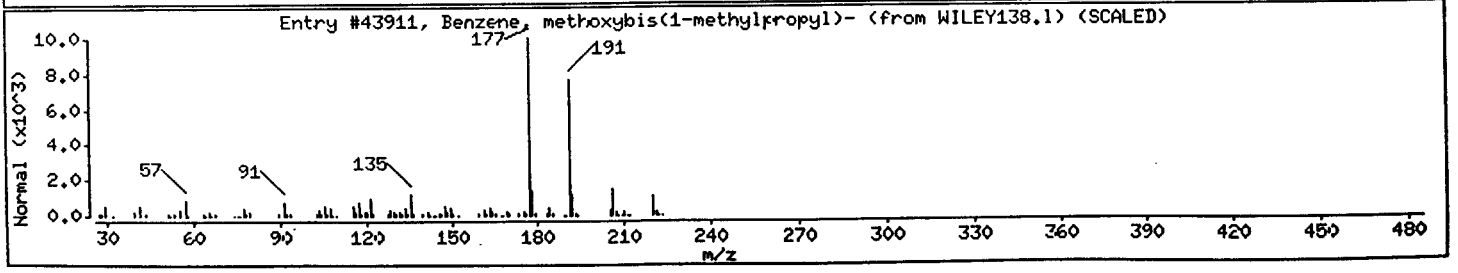
Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Friedelan-y-al	0-00-0	WILEY138.l	136396	60	C30H50O	426
(1S-(1.alpha.,2.beta.,4a.beta.,4b.alpha.	72264-57-4	WILEY138.l	76576	43	C20H36O2	308
Phenanthrene, 9-dodecyltetradecahydro-	55334-01-5	WILEY138.l	135234	35	C26H48	360
Benzene, methoxybis(1-methylpropyl)-	54852-59-4	WILEY138.l	43911	35	C15H24O	220











Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13268.d

Date : 31-OCT-2000 08:38

Client ID: RC-2_3rd_Flr

Instrument: BNAMS7.i

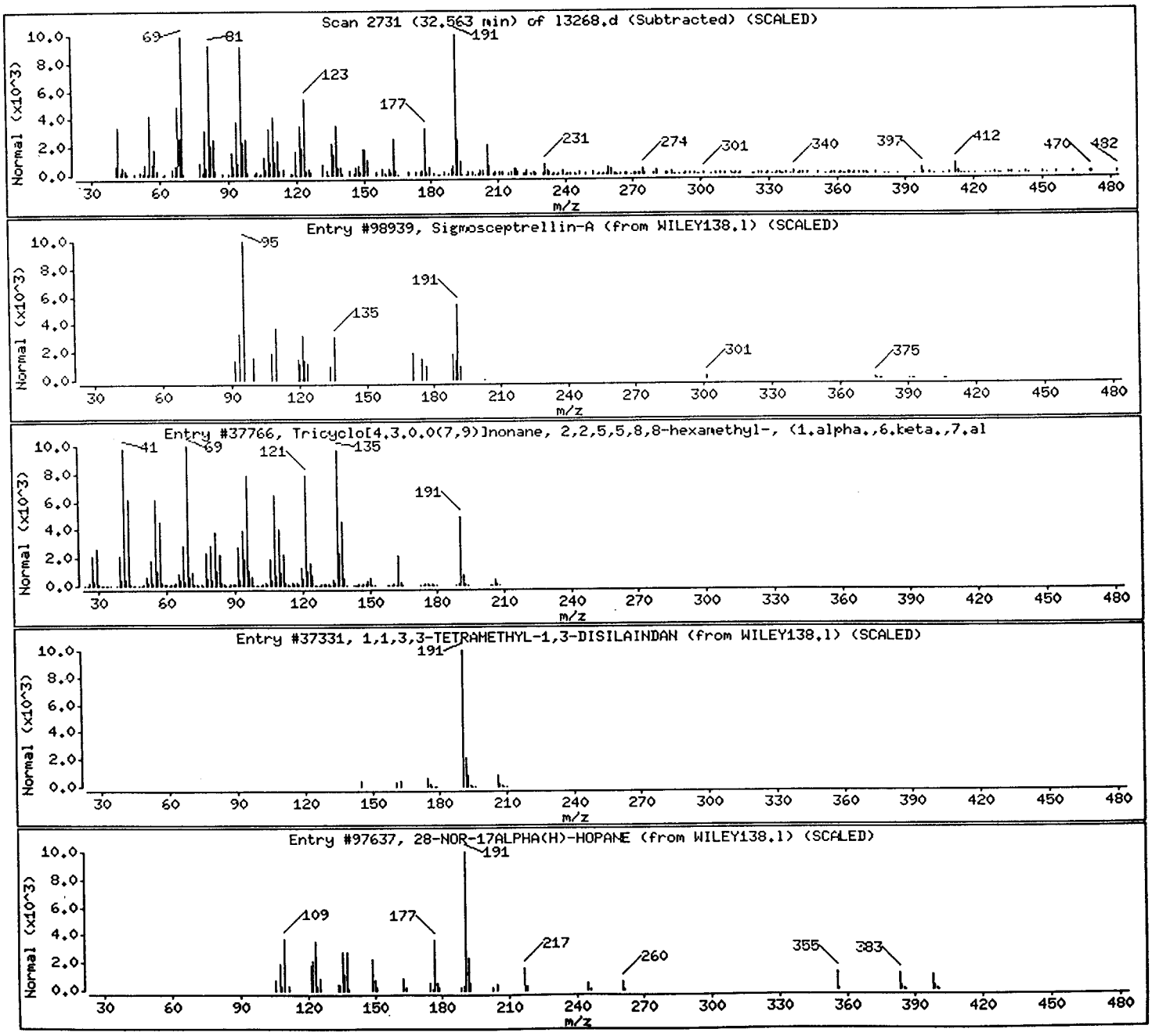
Sample Info: 237826;30;50;5;4.2

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Sigmosceptrellin-A	73436-35-8	WILEY138.l	98939	49	C25H4204	406
Tricyclo[4.3.0.0(7,9)]nonane, 2,2,5,5,8,	54832-82-5	WILEY138.l	37766	49	C15H26	206
1,1,3,3-TETRAMETHYL-1,3-DISILAINDAN	54113-93-8	WILEY138.l	37331	47	C11H18Si2	206
28-NOR-17ALPHA(H)-HOPANE	53584-60-4	WILEY138.l	97637	40	C29H50	398



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13268.d

Date : 31-OCT-2000 08:38

Client ID: RC-2_3rd_Flr

Instrument: BNAMS7.i

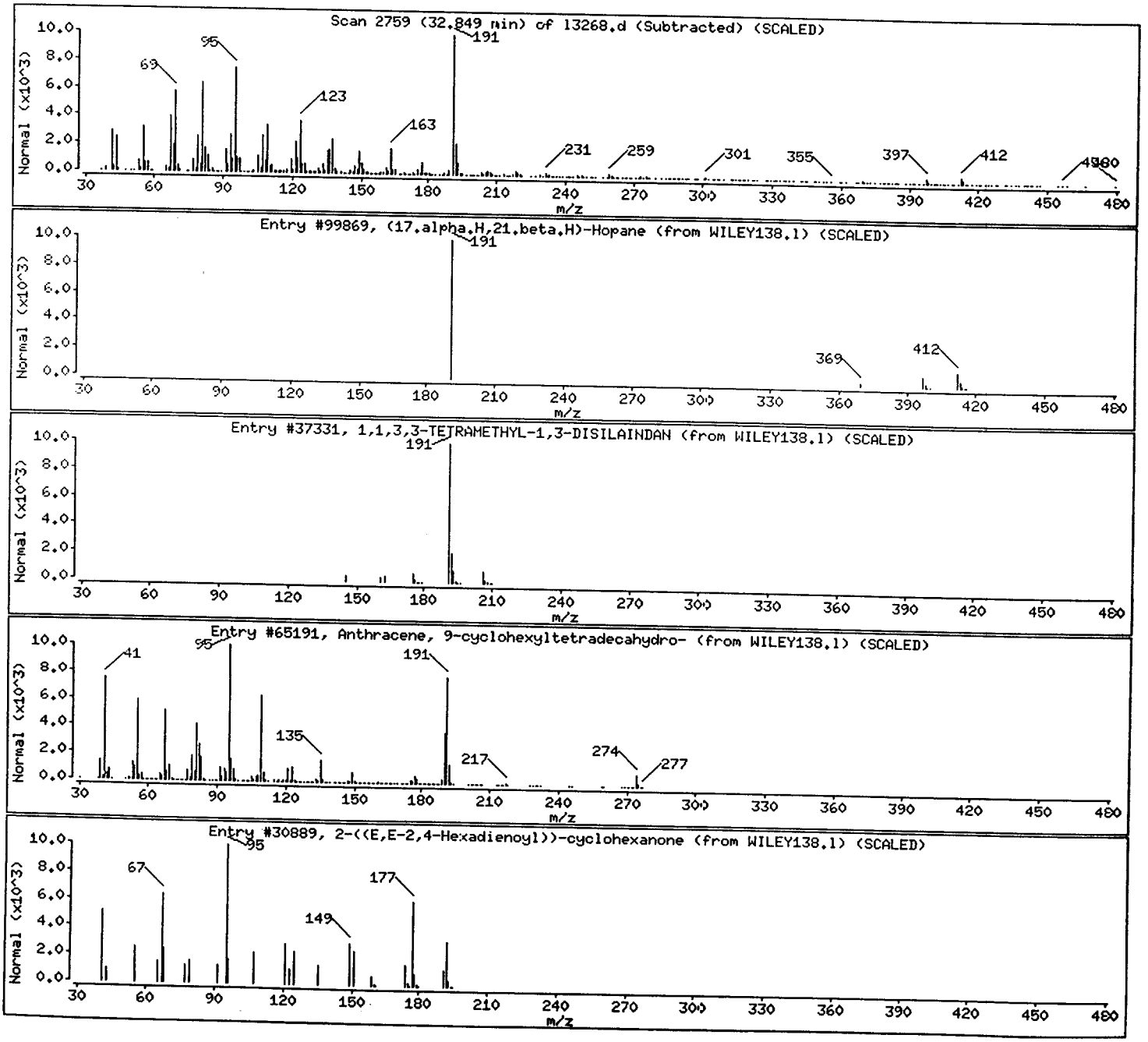
Sample Info: 237826;30;50;5;4.2

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
(17.alpha.H,21.beta.H)-Hopane	0-00-0	WILEY138.l	99869	72	C30H52	412
1,1,3,3-TETRAMETHYL-1,3-DISILAINDAN	54113-93-8	WILEY138.l	37331	64	C11H18Si2	206
Anthracene, 9-cyclohexyltetradecahydro-	55255-70-4	WILEY138.l	65191	47	C20H34	274
2-((E,E-2,4-Hexadienoyl))-cyclohexanone	88924-70-3	WILEY138.l	30889	45	C12H16O2	192



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13268.d

Date : 31-OCT-2000 08:38

Client ID: RC-2_3rd_Flr

Instrument: BNAMS7.i

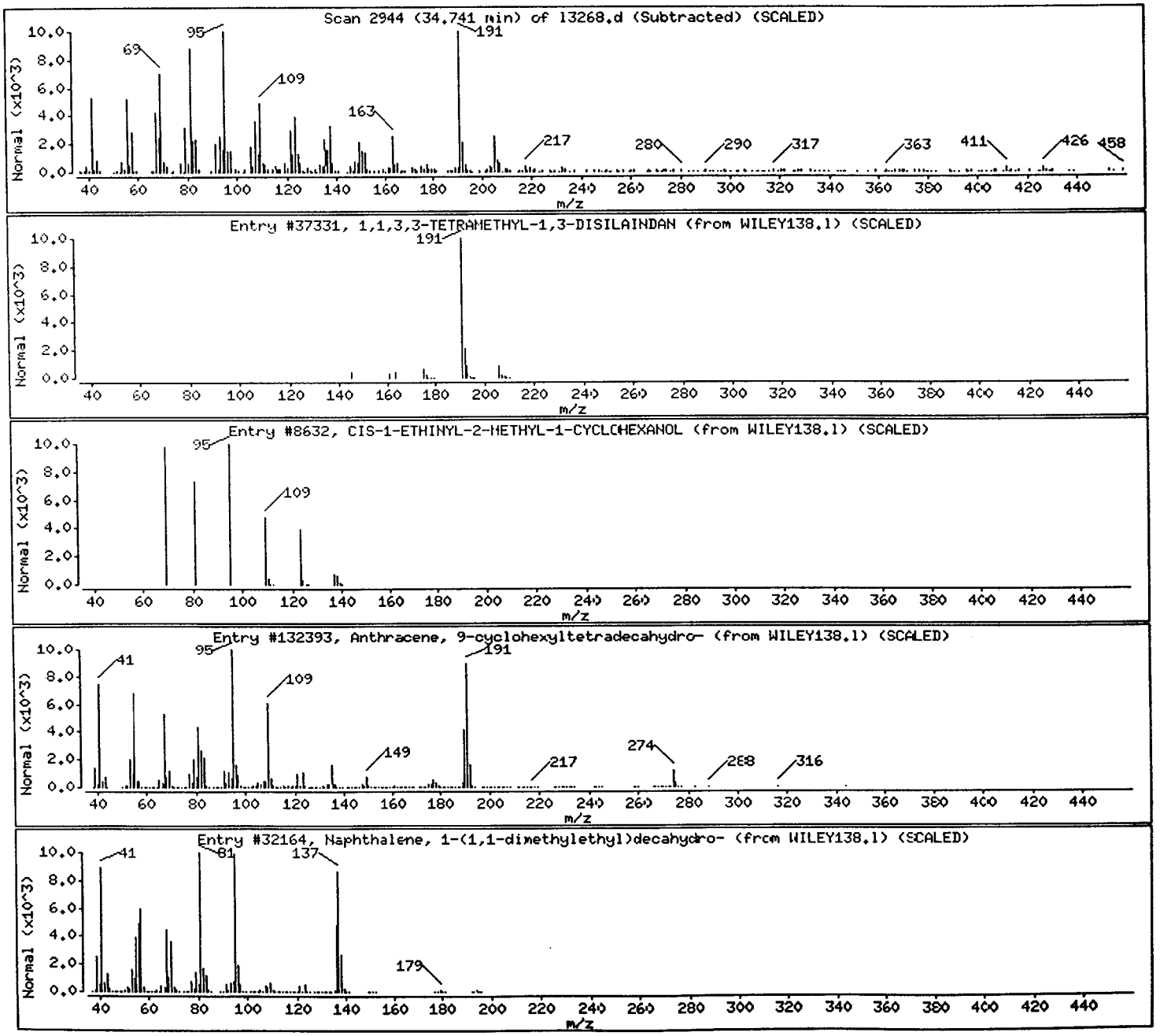
Sample Info: 237826;30;50;5;4.2

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,1,3,3-TETRAMETHYL-1,3-DISILAINDAN	54113-93-8	WILEY138.l	37331	52	C11H18Si2	206
CIS-1-ETHINYL-2-METHYL-1-CYCLOHEXANOL	36144-41-9	WILEY138.l	8632	46	C9H140	138
Anthracene, 9-cyclohexyltetradecahydro-	55255-70-4	WILEY138.l	132393	38	C20H34	274
Naphthalene, 1-(1,1-dimethylethyl)decahy	56292-64-9	WILEY138.l	32164	27	C14H26	194



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13268.d

Date : 31-OCT-2000 08:38

Client ID: RC-2_3rd_Flr

Instrument: BNAMS7.i

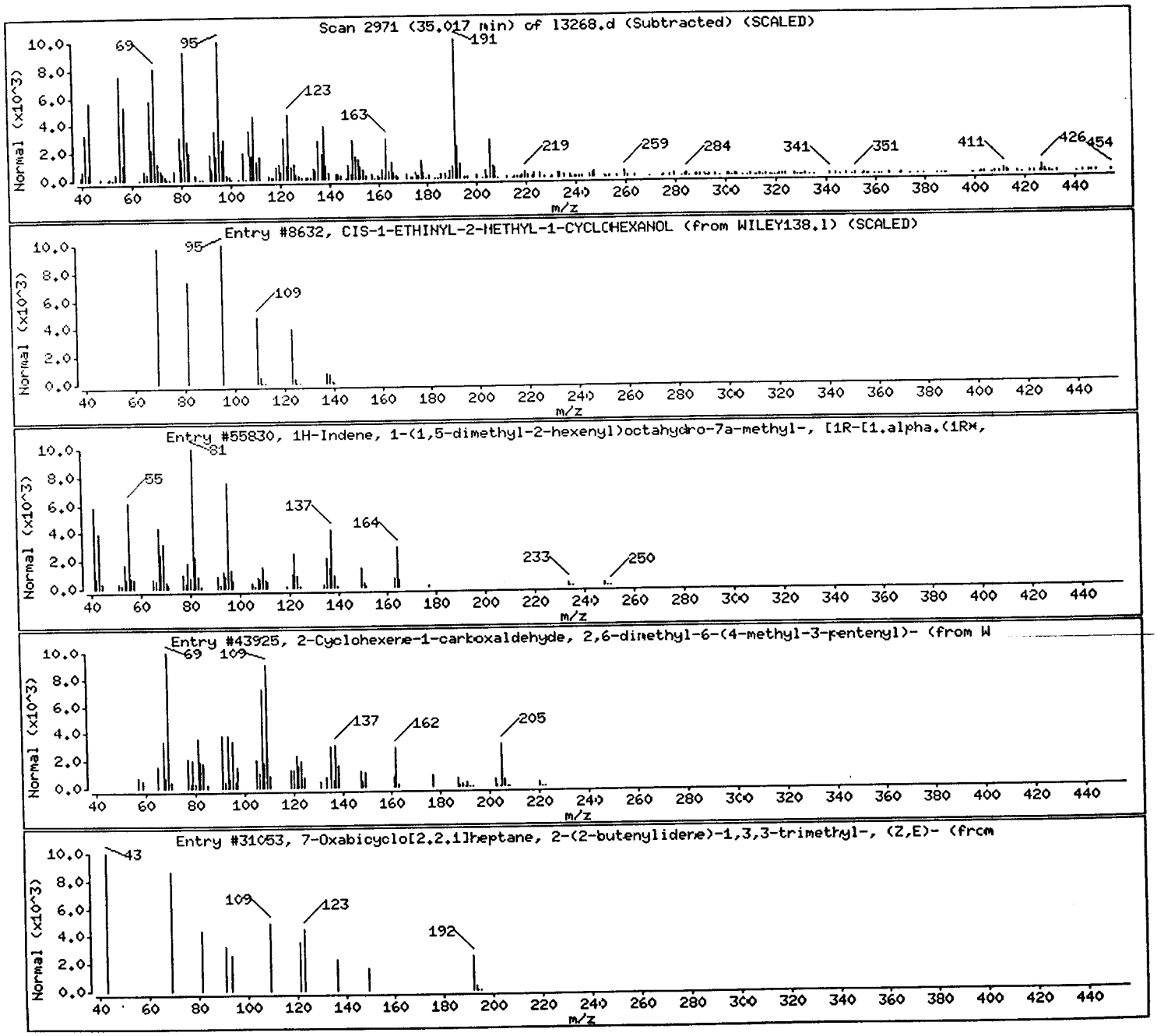
Sample Info: 237826;30;50;5;4.2

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
CIS-1-ETHINYL-2-METHYL-1-CYCLOHEXANOL	36144-41-9	WILEY138.l	8632	46	C9H140	138
1H-Indene, 1-(1,5-dimethyl-2-hexenyl)oct	54411-95-9	WILEY138.l	55830	38	C18H32	248
2-Cyclohexene-1-carboxaldehyde, 2,6-dime	56772-07-7	WILEY138.l	43925	35	C15H240	220
7-Oxabicyclo[2.2.1]heptane, 2-(2-butenyl	66465-62-1	WILEY138.l	31053	30	C13H200	192



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13268.d

Date : 31-OCT-2000 08:38

Client ID: RC-2_3rd_Flr

Instrument: BNAMS7.i

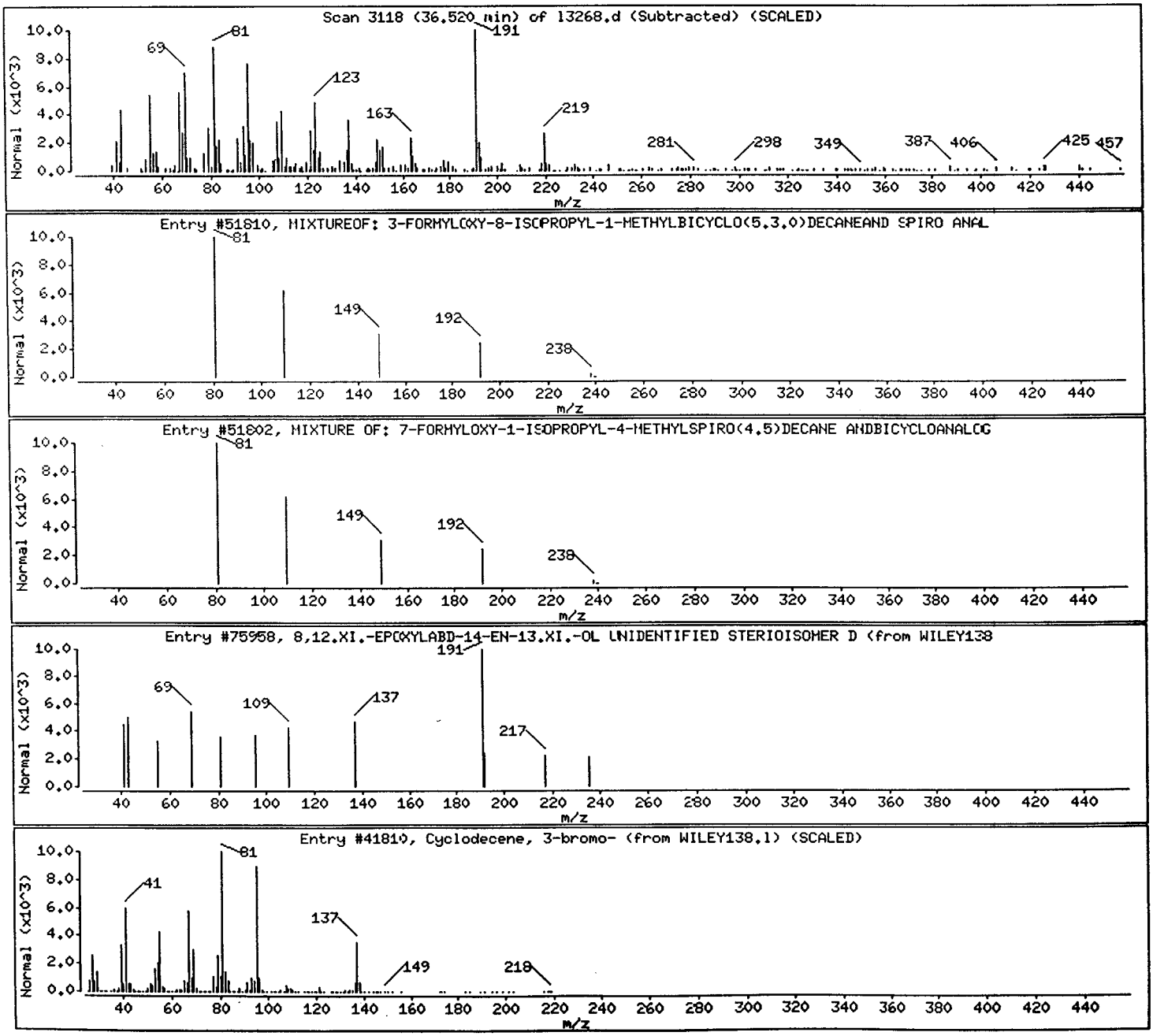
Sample Info: 237826;30;50;5;4.2

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
MIXTUREOF: 3-FORMYLOXY-8-ISOPROPYL-1-MET	58649-38-0	WILEY138.1	51810	30	C15H26O2	238
MIXTURE OF: 7-FORMYLOXY-1-ISOPROPYL-4-ME	58649-37-9	WILEY138.1	51802	30	C15H26O2	238
8,12.XI.-EPOXYLABD-14-EN-13.XI.-OL UNIDE	56682-25-8	WILEY138.1	75958	27	C20H34O2	306
Cyclodecene, 3-bromo-	56325-56-5	WILEY138.1	41810	27	C10H17Br	216



Client ID: **RC-3_3rd_Flr**
Site: Rexam DSI

Lab Sample No: **237827**
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 11/15/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3537.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 10.0 ml
Dilution Factor: 5.0
% Moisture: 7

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
N-Nitrosodimethylamine	ND	8900
bis(2-Chloroethyl)ether	ND	890
1,3-Dichlorobenzene	ND	8900
1,4-Dichlorobenzene	ND	8900
1,2-Dichlorobenzene	ND	8900
bis(2-chloroisopropyl)ether	ND	8900
N-Nitroso-di-n-propylamine	ND	890
Hexachloroethane	ND	890
Nitrobenzene	ND	890
Isophorone	ND	8900
bis(2-Chloroethoxy)methane	ND	8900
1,2,4-Trichlorobenzene	ND	890
Naphthalene	ND	8900
Hexachlorobutadiene	ND	1800
Hexachlorocyclopentadiene	ND	8900
2-Chloronaphthalene	ND	8900
Dimethylphthalate	ND	8900
Acenaphthylene	ND	8900
2,6-Dinitrotoluene	ND	1800
Acenaphthene	220 J	8900
2,4-Dinitrotoluene	ND	1800
Diethylphthalate	ND	8900
4-Chlorophenyl-phenylether	ND	8900
Fluorene	200 J	8900
N-Nitrosodiphenylamine	ND	8900
4-Bromophenyl-phenylether	ND	8900
Hexachlorobenzene	ND	890
Phenanthrene	1100 J	8900
Anthracene	ND	8900
Di-n-butylphthalate	ND	8900
Fluoranthene	600 J	8900
Pyrene	7400 J	8900
Benzidine	ND	36000
Butylbenzylphthalate	ND	8900

Client ID: **RC-3_3rd_Flr**
Site: Rexam DSI

Lab Sample No: **237827**
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 11/15/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3537.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 10.0 ml
Dilution Factor: 5.0
% Moisture: 7

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
3,3'-Dichlorobenzidine	ND	18000
Benzo(a)anthracene	1800	890
Chrysene	5400 J	8900
bis(2-Ethylhexyl)phthalate	ND	8900
Di-n-octylphthalate	ND	8900
Benzo(b)fluoranthene	1300	890
Benzo(k)fluoranthene	390 J	890
Benzo(a)pyrene	1500	890
Indeno(1,2,3-cd)pyrene	ND	890
Dibenz(a,h)anthracene	ND	890
Benzo(g,h,i)perylene	780 J	8900

Client ID: RC-3_3rd_Flr
Site: Rexam DSI

Lab Sample No: 237827
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 11/15/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3537.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 10.0 ml
Dilution Factor: 5.0
% Moisture: 6.8

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. C19H40 Alkane	19.74	14000	
2. Unknown Alkane	20.51	11000	
3. Unknown	21.26	8800	
4. C16H14 PAH	22.29	9000	
5. C16H14 PAH	22.48	17000	
6. C16H14 PAH	22.53	12000	
7. Unknown	22.67	10000	
8. Unknown	23.04	8600	
9. C17H16 PAH	23.15	20000	
10. C17H16 PAH	23.21	20000	
11. Unknown	23.39	9100	
12. Unknown	23.66	9500	
13. C17H12 PAH	23.85	14000	
14. Unknown	24.09	16000	
15. Unknown	24.72	9000	
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			
TOTAL ESTIMATED CONCENTRATION		188000	

Data File: /chem/BNAMS7.i/8270/11-09-00/15nov00.b/l3537.d
Report Date: 15-Nov-2000 15:31

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS7.i/8270/11-09-00/15nov00.b/l3537.d
Lab Smp Id: 237827 Client Smp ID: RC-3_3rd_Flr
Inj Date : 15-NOV-2000 13:34
Operator : BNAMS 4 Inst ID: BNAMS7.i
Smp Info : 237827;30;10;5;6.8;
Misc Info : F104;PPBN+15;6924;114
Comment :
Method : /chem/BNAMS7.i/8270/11-09-00/15nov00.b/8270C1.m
Meth Date : 15-Nov-2000 15:31 jeri Quant Type: ISTD
Cal Date : 09-NOV-2000 14:25 Cal File: l3449.d
Als bottle: 10
Dil Factor: 5.00000 MA/ JR
Integrator: HP RTE Compound Sublist: PPBNb.sub
Target Version: 3.50
Processing Host: hpd1

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	10.00000	Volume of final extract (ml)
Ws	30.00000	Weight of sample extracted (g)
M	6.80000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
* 79 1,4-Dichlorobenzene-d4	152	13.129	13.142	(1.000)	488006	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	14.080	14.103	(0.920)	18432	1.15211	2100(aR)
* 80 Naphthalene-d8	136	15.307	15.320	(1.000)	1868664	40.0000	
$ 77 2-Fluorobiphenyl (SUR)	172	17.097	17.110	(0.937)	50584	1.35966	2400(aR)
* 82 Acenaphthene-d10	164	18.242	18.255	(1.000)	1170898	40.0000	
42 Acenaphthene	153	18.303	18.316	(1.003)	4268	0.12428	220(aH)
47 Fluorene	166	19.152	19.175	(1.050)	4396	0.11373	200(a)
* 83 Phenanthrene-d10	188	20.727	20.739	(1.000)	2245073	40.0000	
52 Phenanthrene	178	20.757	20.780	(1.001)	33708	0.61429	1100(a)
56 Fluoranthene	202	22.741	22.754	(1.097)	21187	0.33705	600(a)
57 Pyrene	202	23.129	23.142	(0.918)	249094	4.14099	7400(a)
$ 78 Terphenyl-d14 (SUR)	244	23.344	23.357	(0.927)	72002	1.48789	2700(a)
61 Benzo(a)anthracene	228	25.164	25.177	(0.999)	55867	0.99508	1800

Data File: /chem/BNAMS7.i/8270/11-09-00/15nov00.b/13537.d
Report Date: 15-Nov-2000 15:31

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
* 81 Chrysene-d12	240	25.195	25.208	(1.000)	2049125	40.0000	
62 Chrysene	228	25.205	25.259	(1.000)	167939	3.03853	5400(a)
65 Benzo(b)fluoranthene	252	27.690	27.723	(0.957)	30684	0.71152	1300
66 Benzo(k)fluoranthene	252	27.741	27.815	(0.959)	11533	0.21675	390(aM)
67 Benzo(a)pyrene	252	28.702	28.746	(0.992)	35316	0.82404	1500
* 84 Perylene-d12	264	28.927	28.930	(1.000)	1641667	40.0000	
70 Benzo(g,h,i)perylene	276	34.694	34.819	(1.199)	19094	0.43659	780(aM)

QC Flag Legend

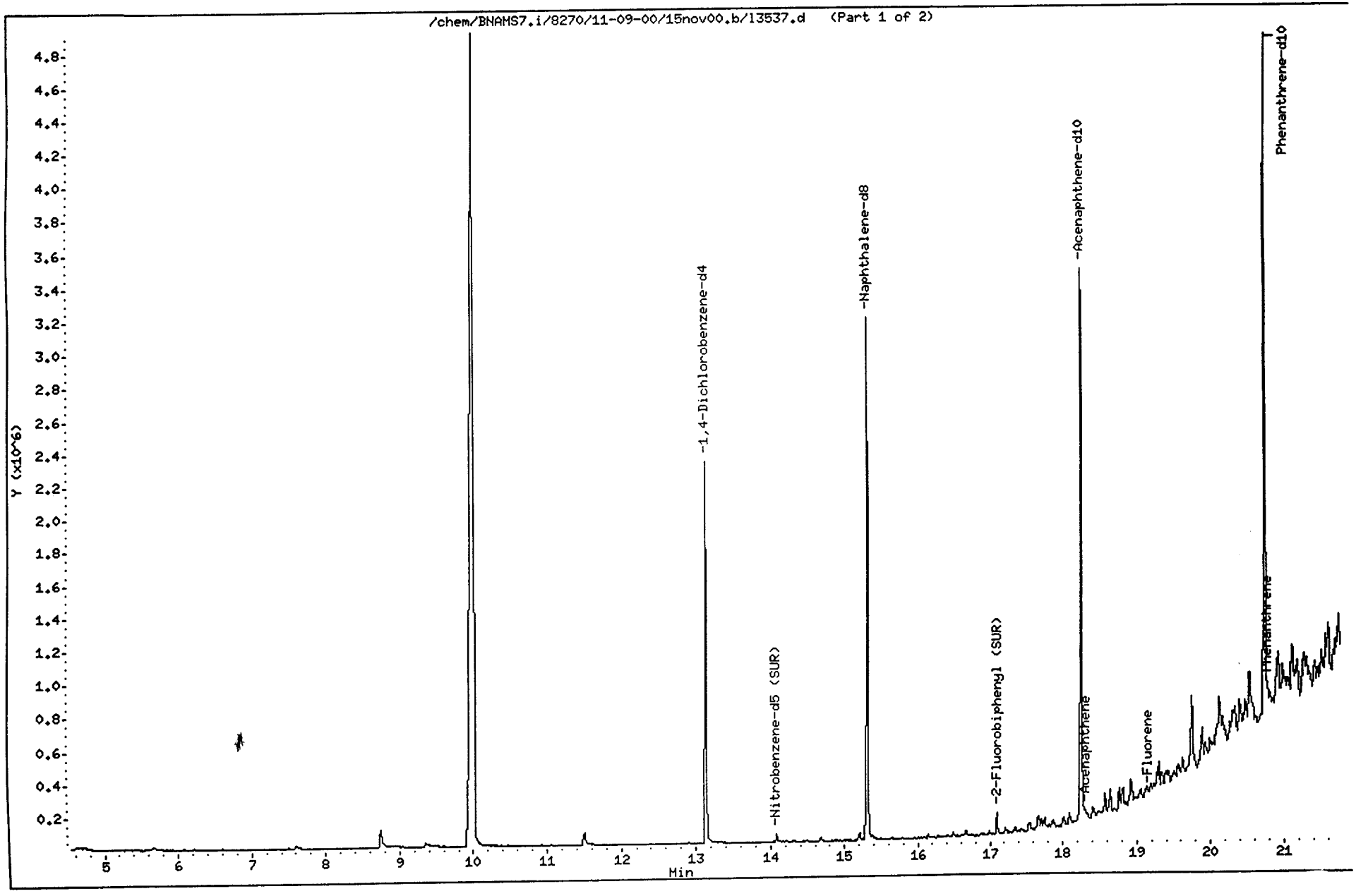
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /chem/BNAMS7.i/8270/11-09-00/15nov00.b/13537.d
Date : 15-NOV-2000 13:34
Client ID: RC-3_3rd_Flr
Sample Info: 237827;30;10;5;6.8;

Instrument: BNAMS7.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5

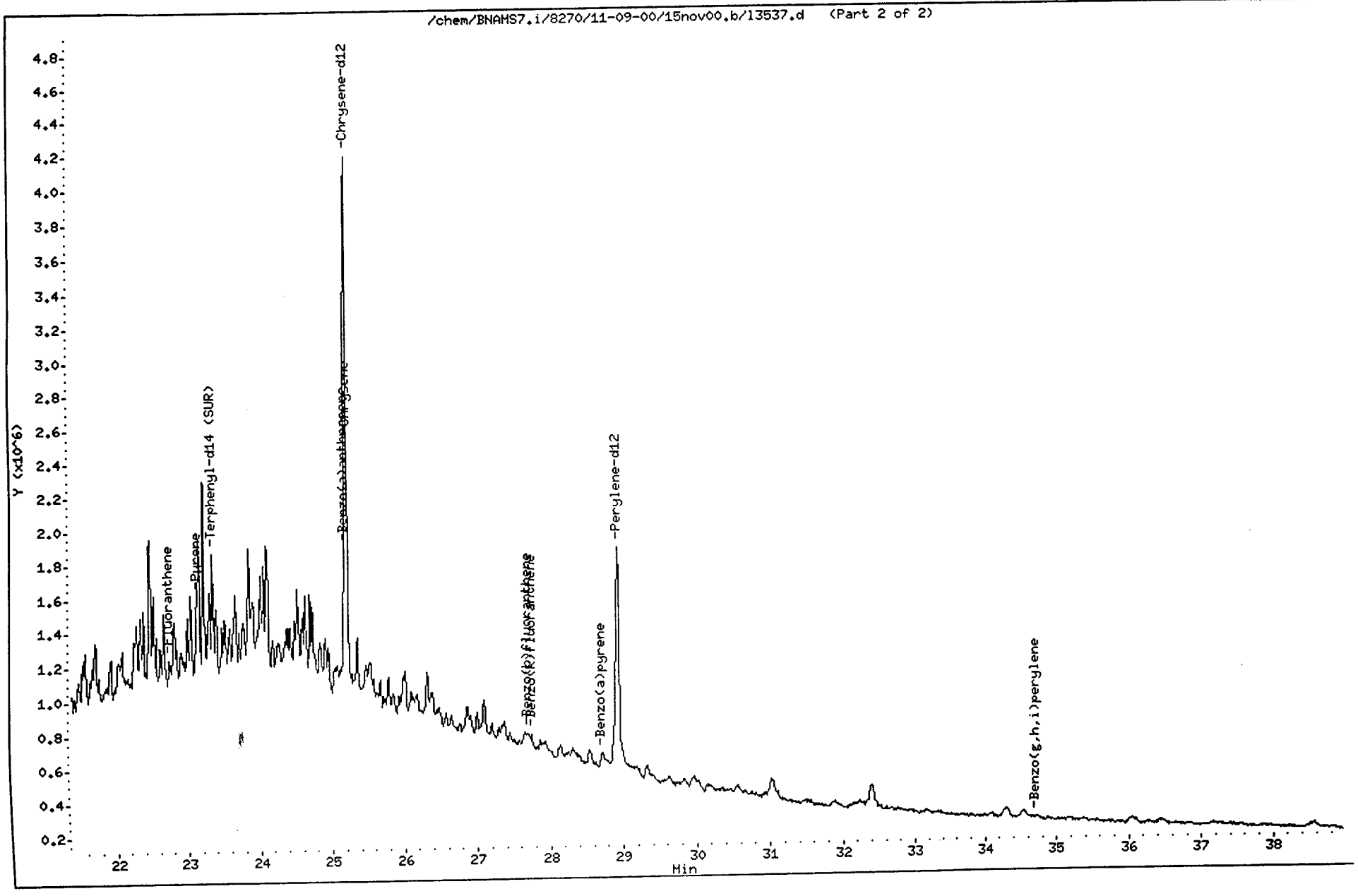


Data File: /chem/BNAMS7.i/8270/11-09-00/15nov00.b/13537.d
Date : 15-NOV-2000 13:34
Client ID: RC-3_3rd_Flr
Sample Info: 237827;30;10;5;6.8;

Column phase: DB-5

Instrument: BNAMS7.i

Operator: BNAMS 4
Column diameter: 0.25



Data File: /chem/BNAMS7.i/8270/11-09-00/15nov00.b/13537.d

Date : 15-NOV-2000 13:34

Client ID: RC-3_3rd_Flr

Instrument: BNAMS7.i

Sample Info: 237827;30;10;5;6.8;

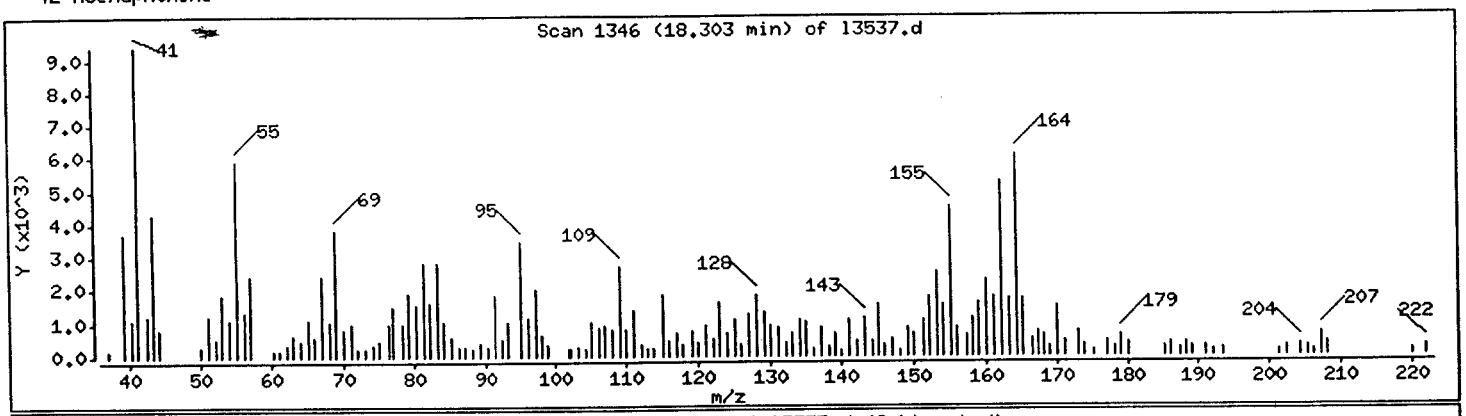
Operator: BNAMS 4

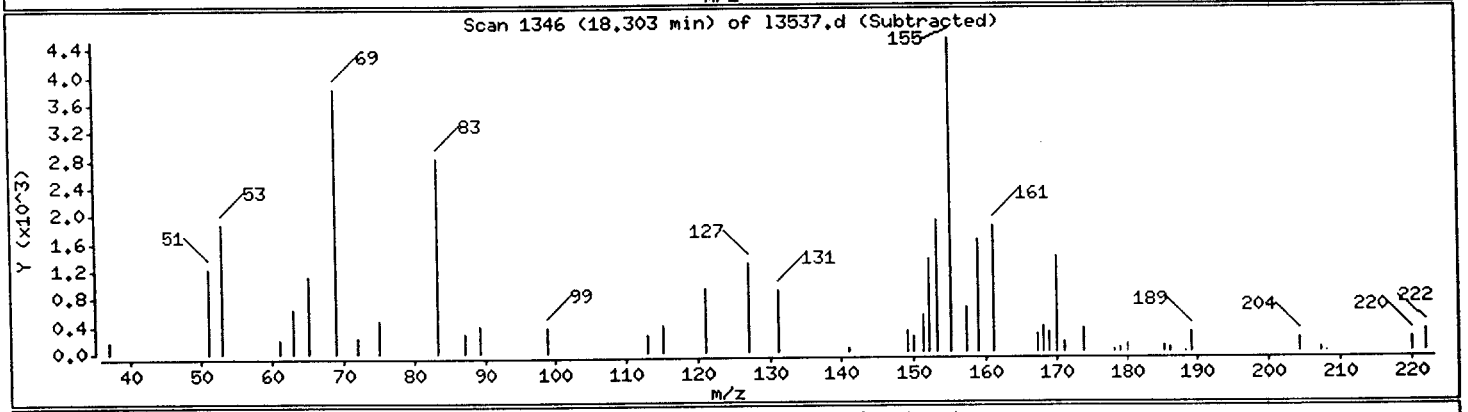
Column phase: DB-5

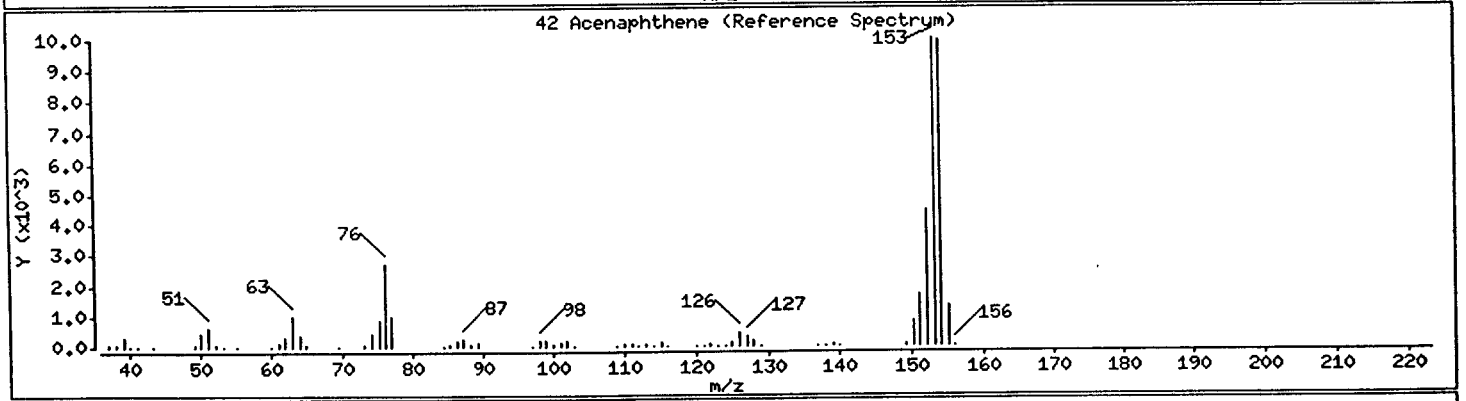
Column diameter: 0.25

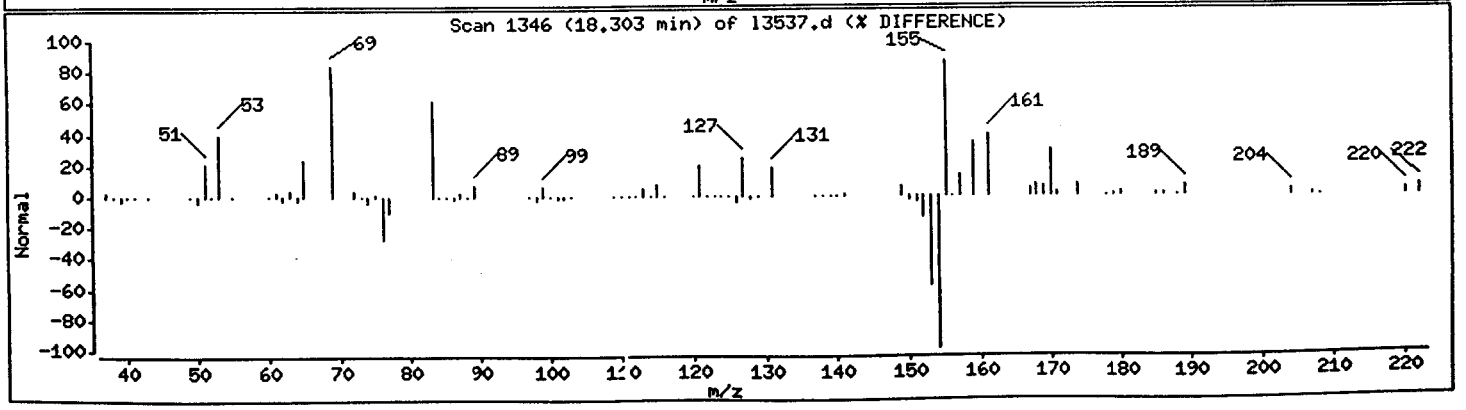
42 Acenaphthene

Concentration: 220 ug/Kg









Data File: /chem/BNAMS7.i/8270/11-09-00/15nov00.b/13537.d

Date : 15-NOV-2000 13:34

Client ID: RC-3_3rd_Flr

Instrument: BNAMS7.i

Sample Info: 237827;30;10;5;6.8;

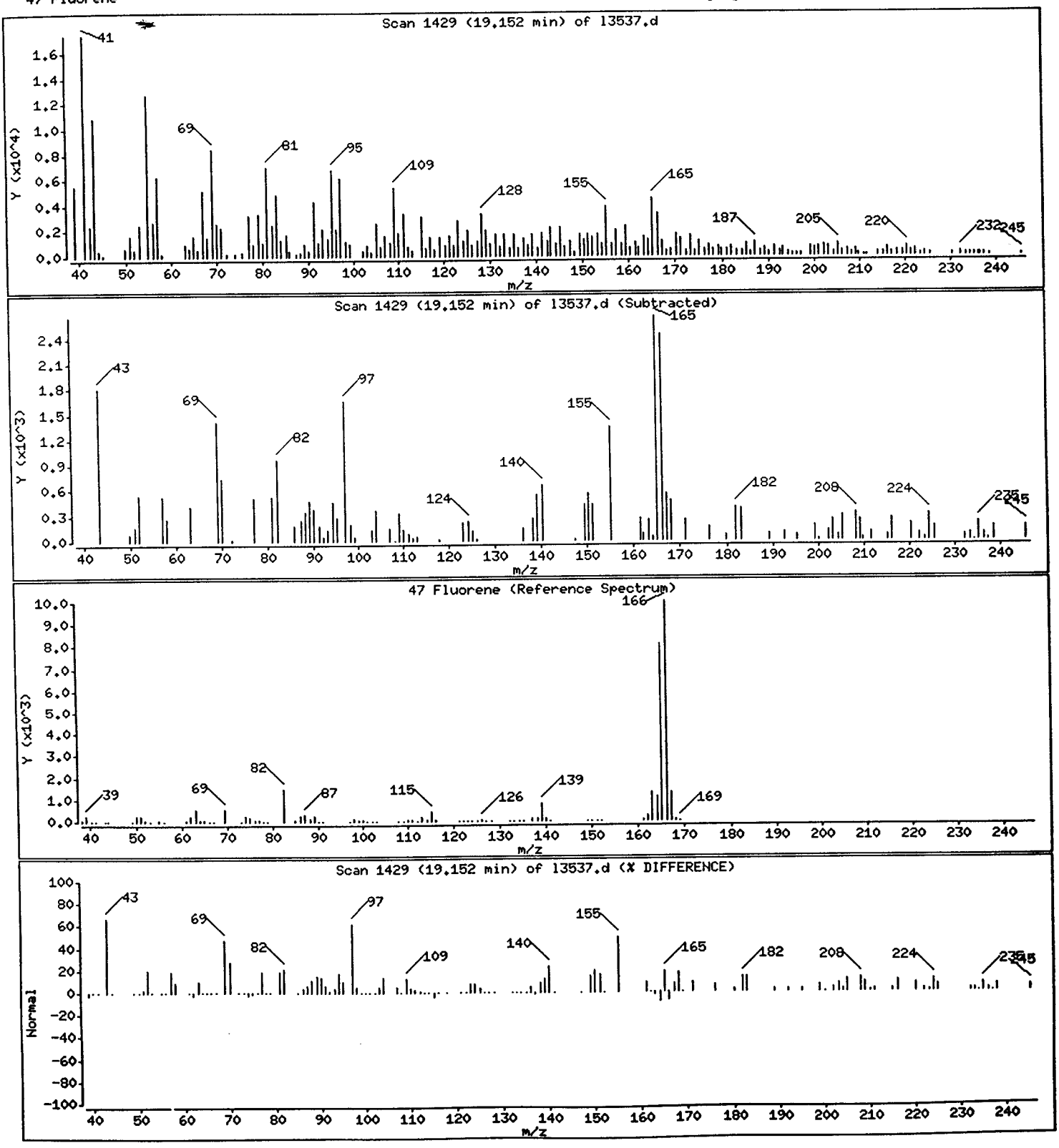
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

47 Fluorene

Concentration: 200 ug/Kg



Data File: /chem/BNAMS7.i/8270/11-09-00/15nov00.b/13537.d

Date : 15-NOV-2000 13:34

Client ID: RC-3_3rd_Flr

Instrument: BNAMS7.i

Sample Info: 237827;30;10;5;6.8;

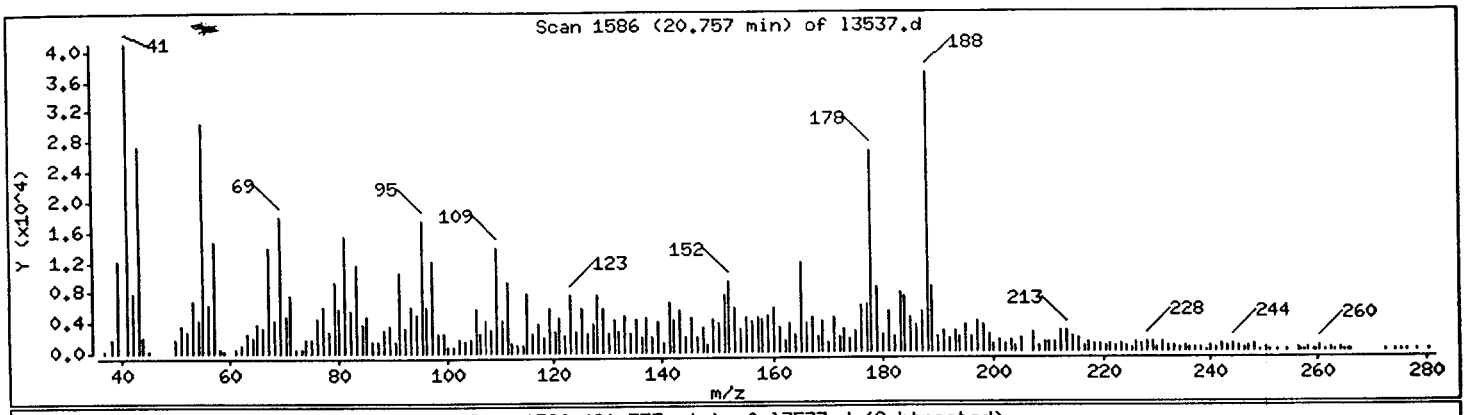
Operator: BNAMS 4

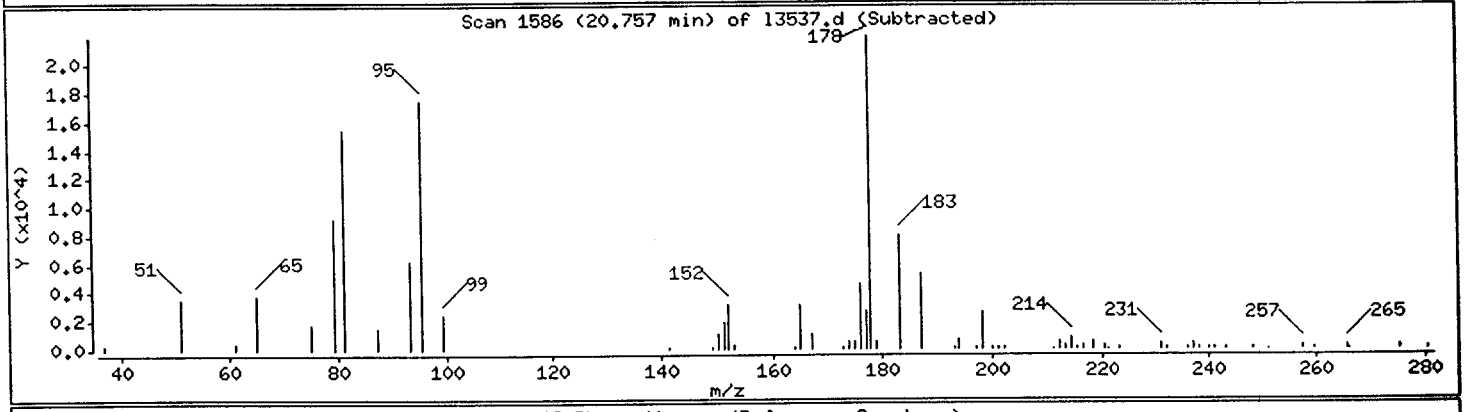
Column phase: DB-5

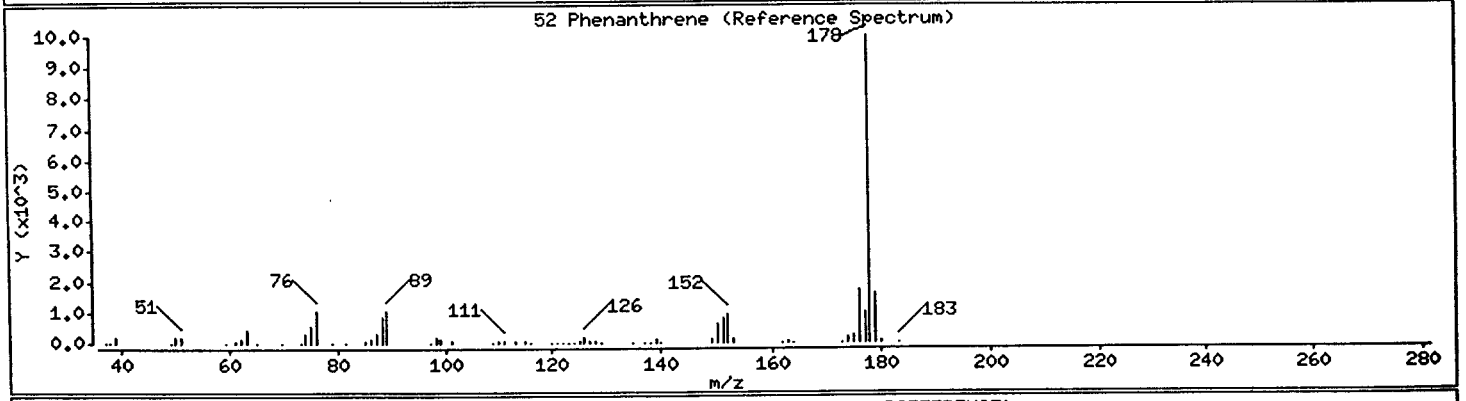
Column diameter: 0.25

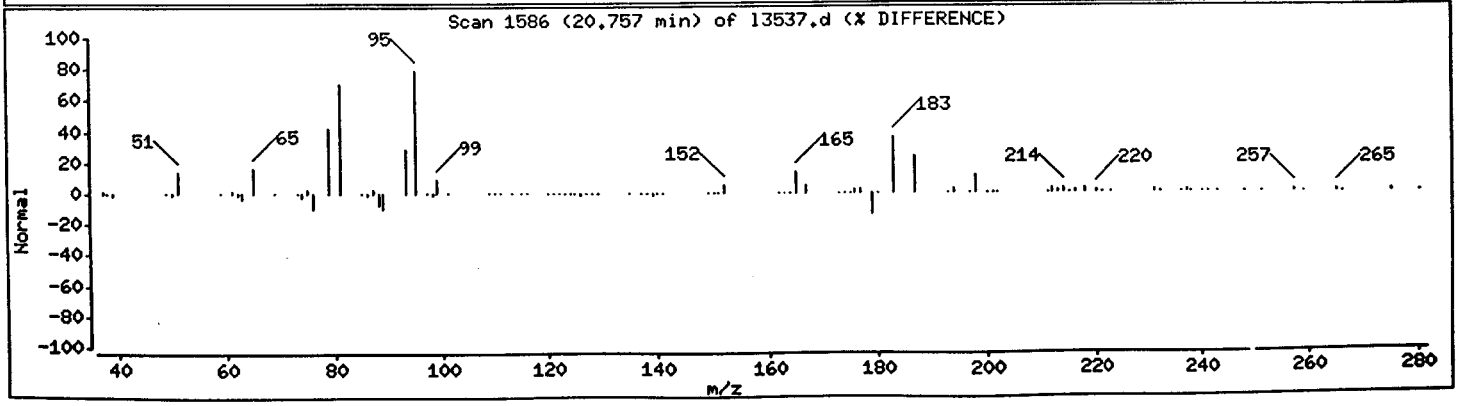
52 Phenanthrene

Concentration: 1100 ug/Kg









Data File: /chem/BNAMS7.i/8270/11-09-00/15nov00.b/13537.d

Date : 15-NOV-2000 13:34

Client ID: RC-3_3rd_Flr

Instrument: BNAMS7.i

Sample Info: 237827;30;10;5;6.8;

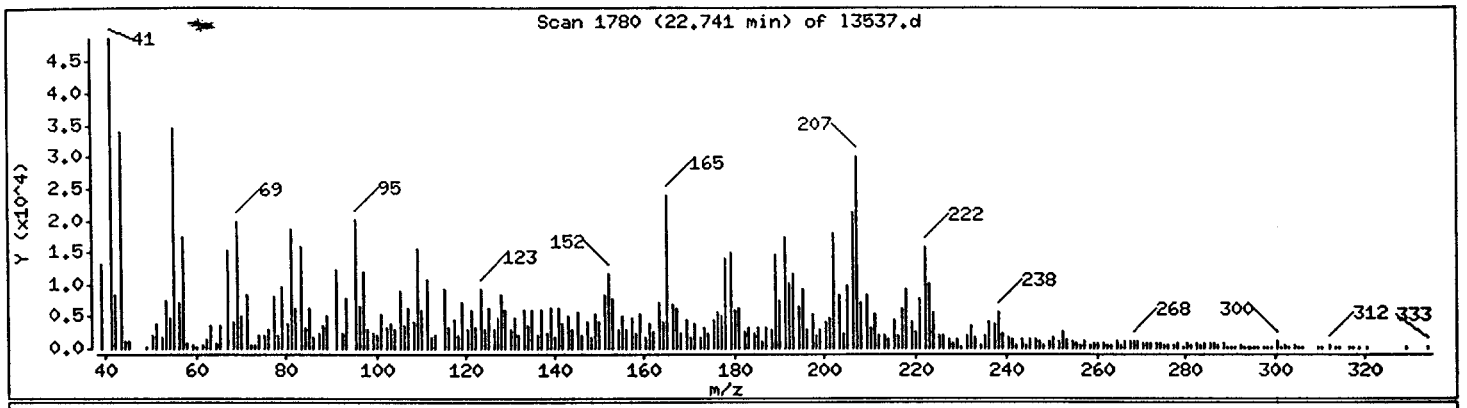
Operator: BNAMS 4

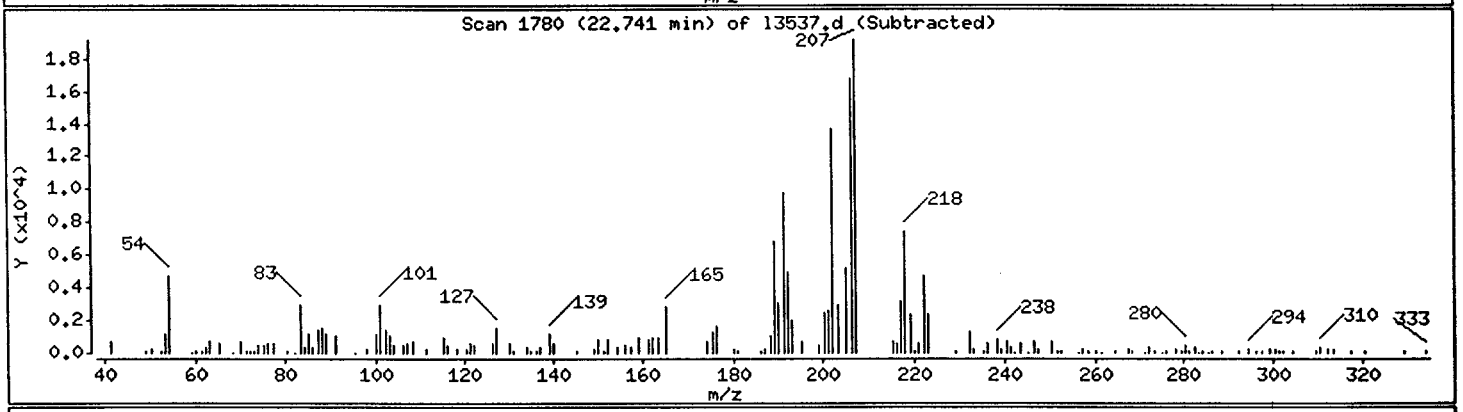
Column phase: DB-5

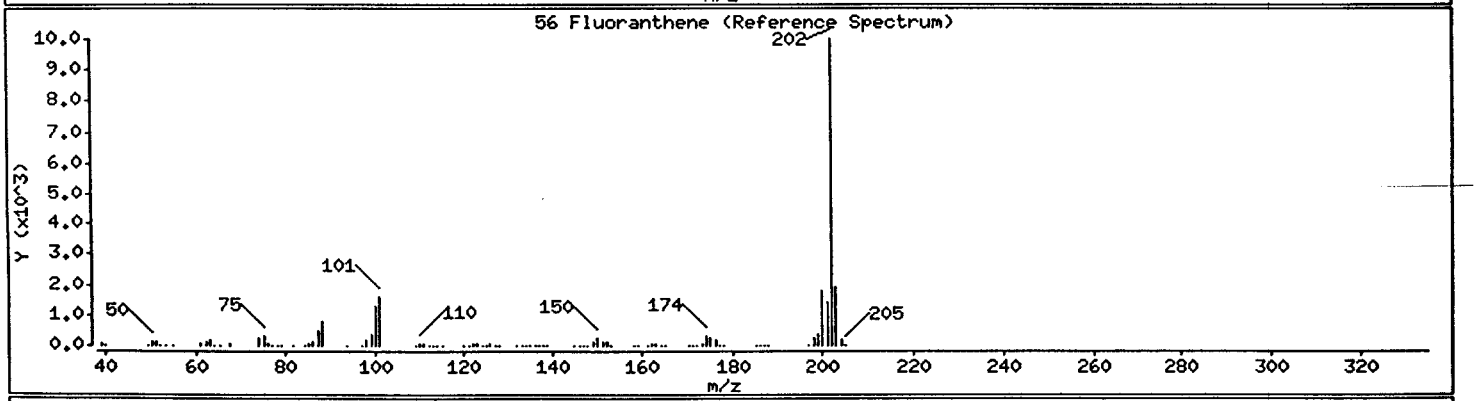
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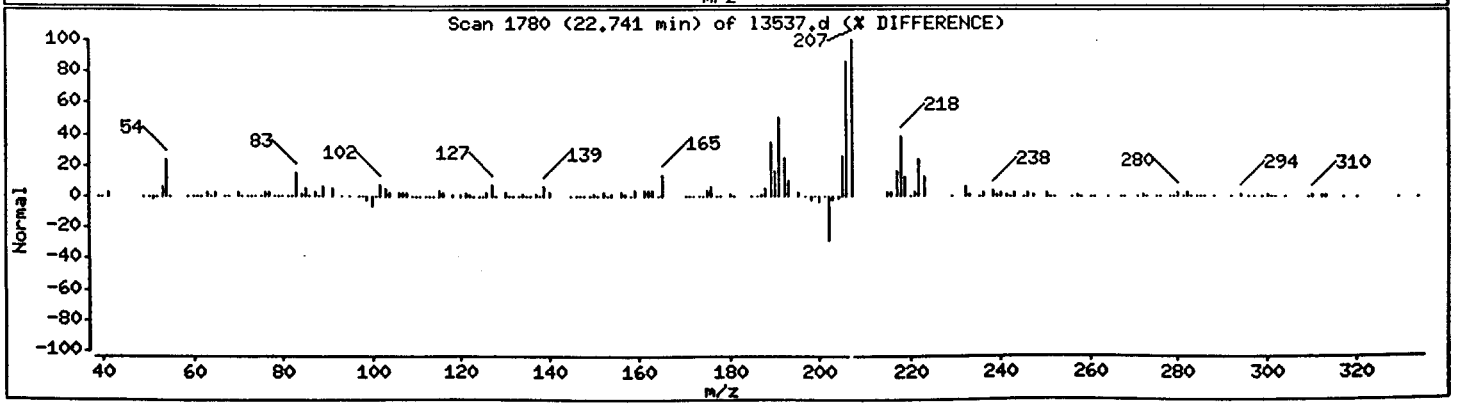
56 Fluoranthene

Concentration: 600 ug/Kg









Data File: /chem/BNAMS7.i/8270/11-09-00/15nov00.b/13537.d

Date : 15-NOV-2000 13:34

Client ID: RC-3_3rd_Flr

Instrument: BNAMS7.i

Sample Info: 237827;30;10;5;6.8;

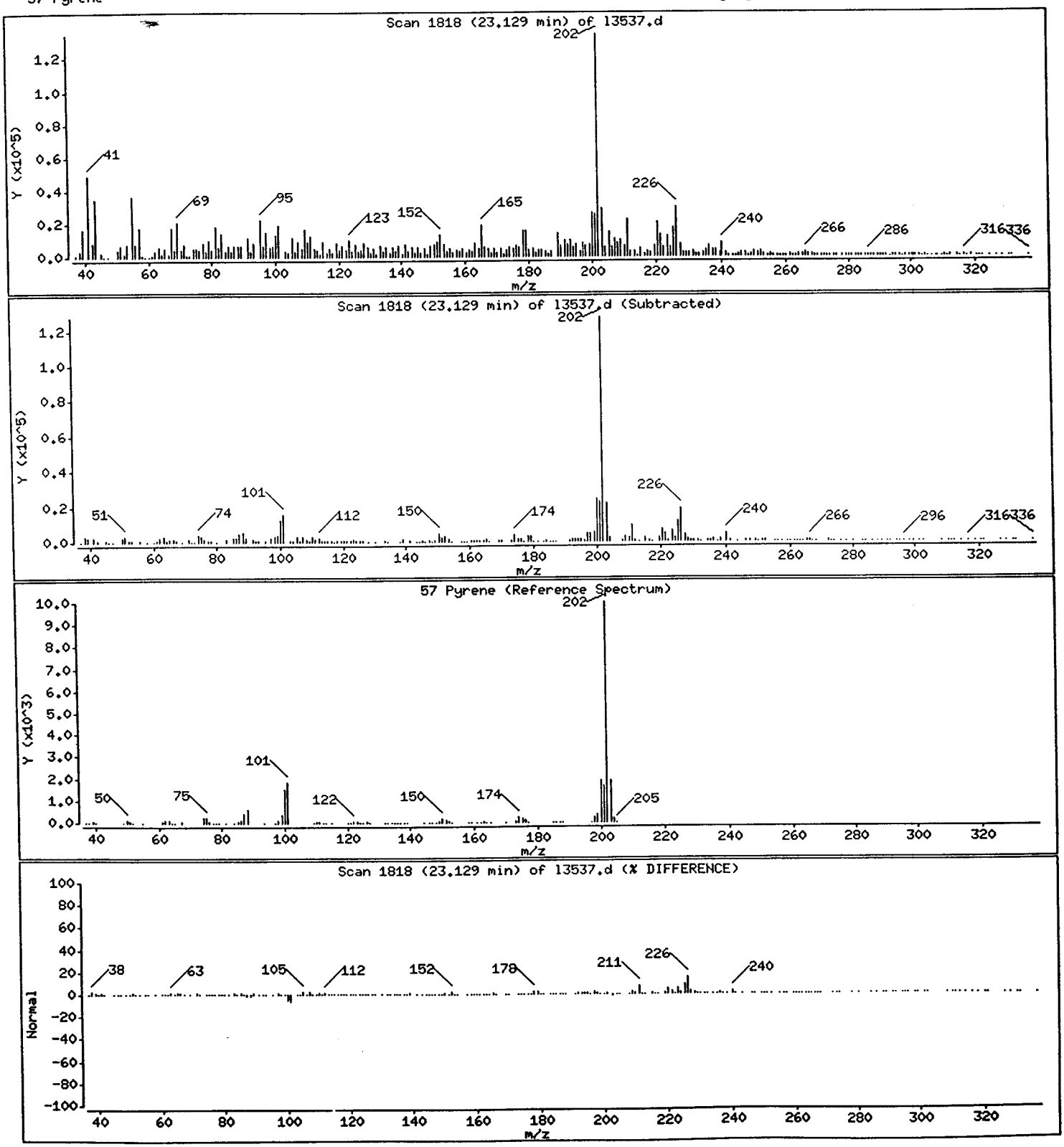
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

57 Pyrene

Concentration: 7400 ug/Kg



Data File: /chem/BNAMS7.i/8270/11-09-00/15nov00.b/13537.d

Date : 15-NOV-2000 13:34

Client ID: RC-3_3rd_Flr

Instrument: BNAMS7.i

Sample Info: 237827;30;10;5;6.8;

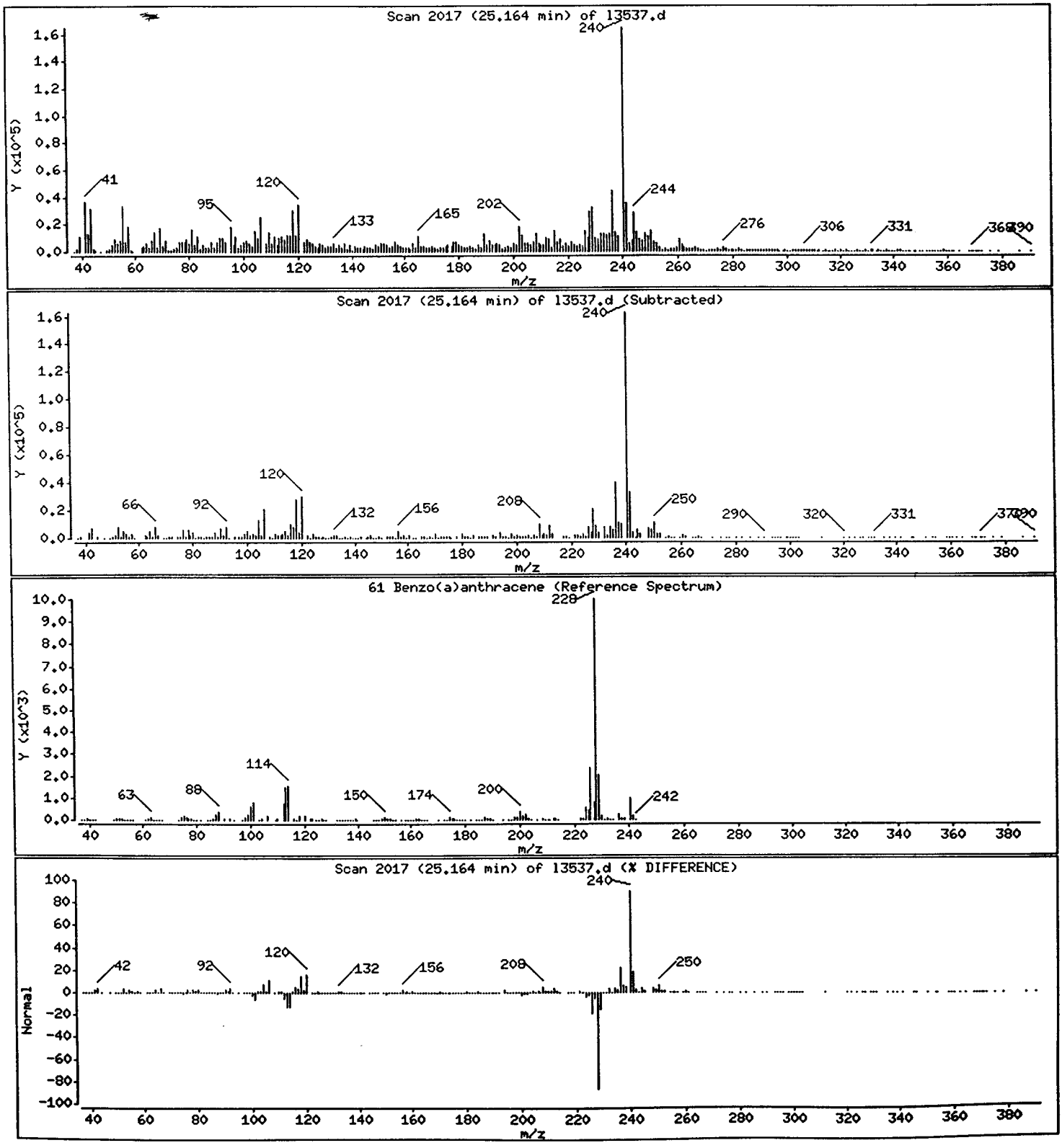
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

61 Benzo(a)anthracene

Concentration: 1800 ug/Kg



Data File: /chem/BNAMS7.i/8270/11-09-00/15nov00.b/13537.d

Date : 15-NOV-2000 13:34

Client ID: RC-3_3rd_Flr

Instrument: BNAMS7.i

Sample Info: 237827;30;10;5;6.8;

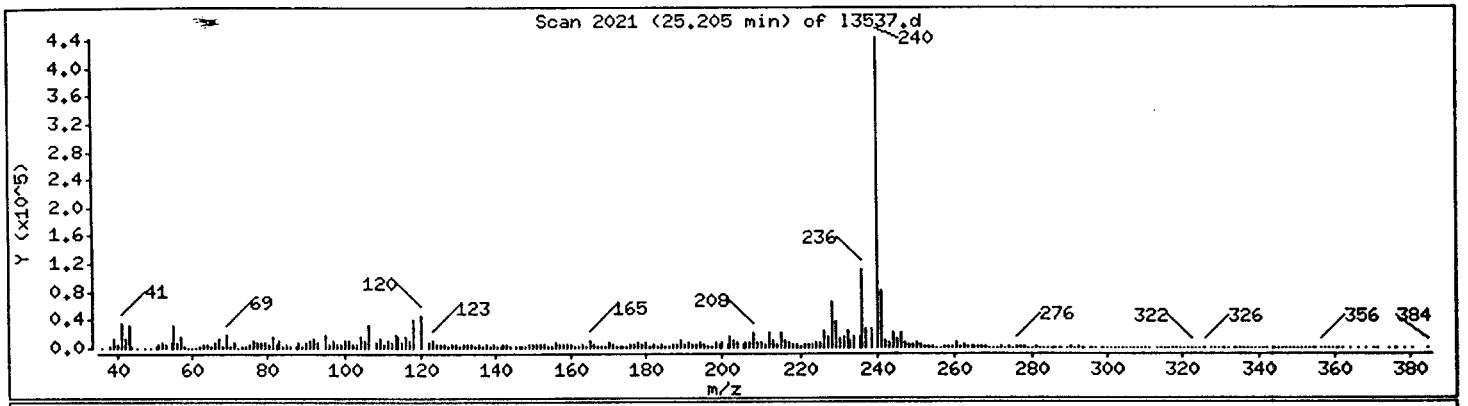
Operator: BNAMS 4

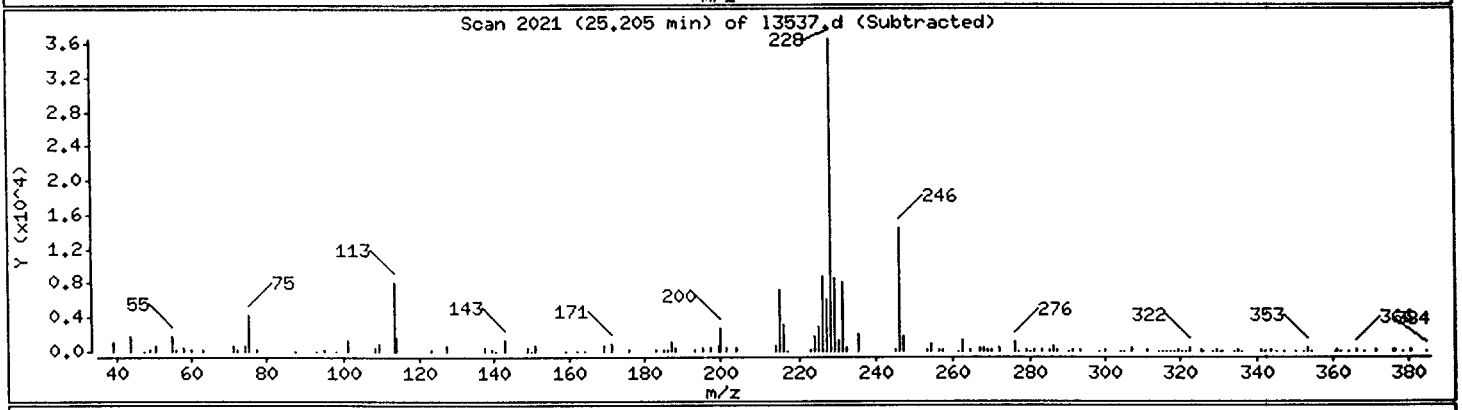
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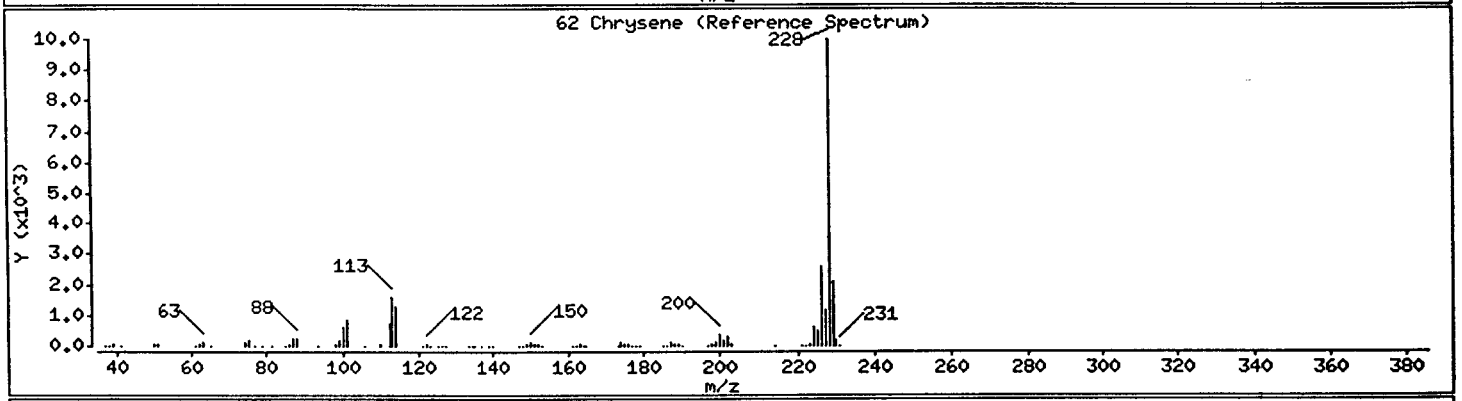
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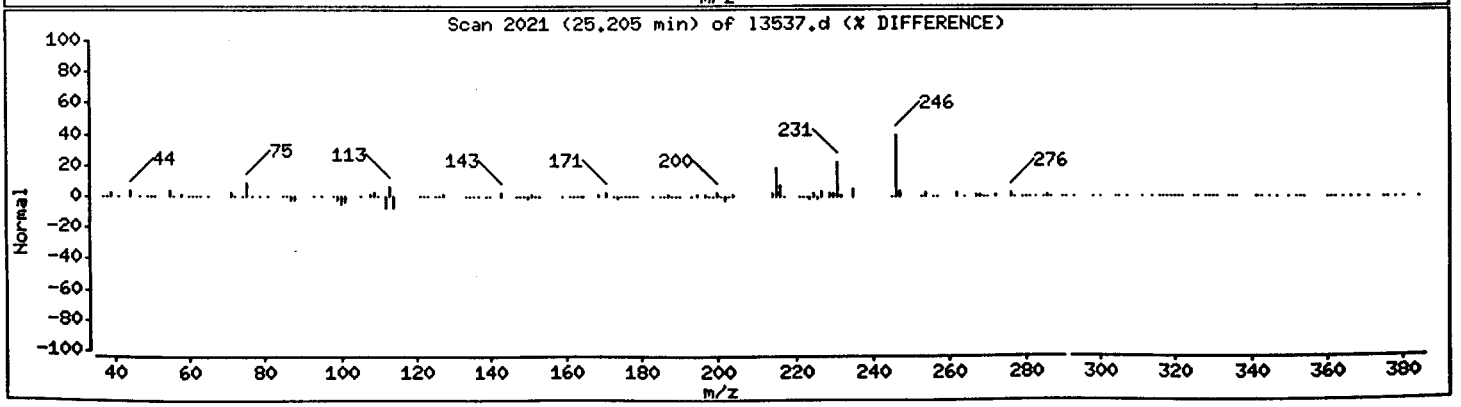
62 Chrysene

Concentration: 5400 ug/Kg









Data File: /chem/BNAMS7.i/8270/11-09-00/15nov00.b/13537.d

Date : 15-NOV-2000 13:34

Client ID: RC-3_3rd_Flr

Instrument: BNAMS7.i

Sample Info: 237827;30;10;5;6.8;

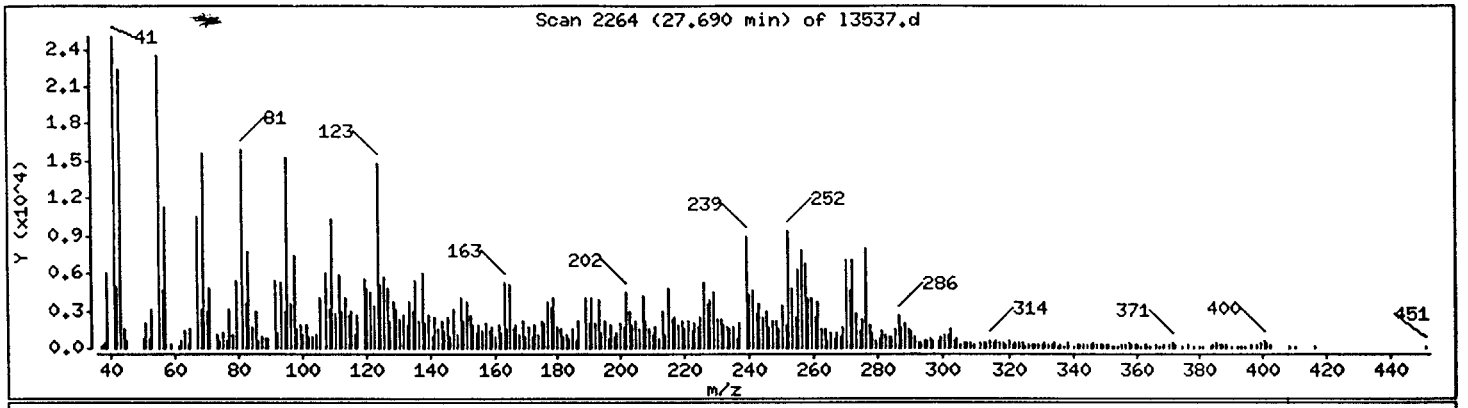
Operator: BNAMS 4

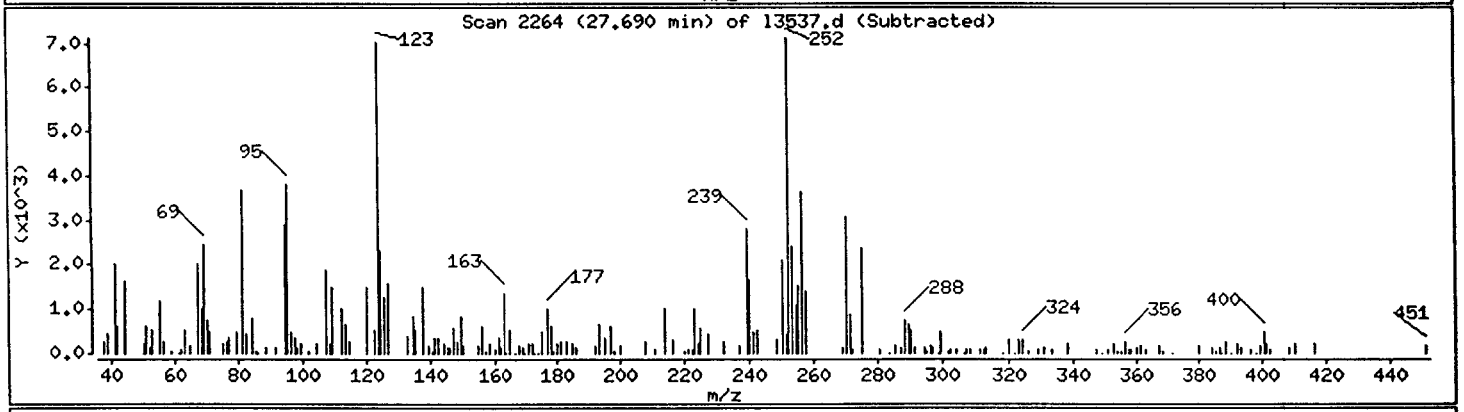
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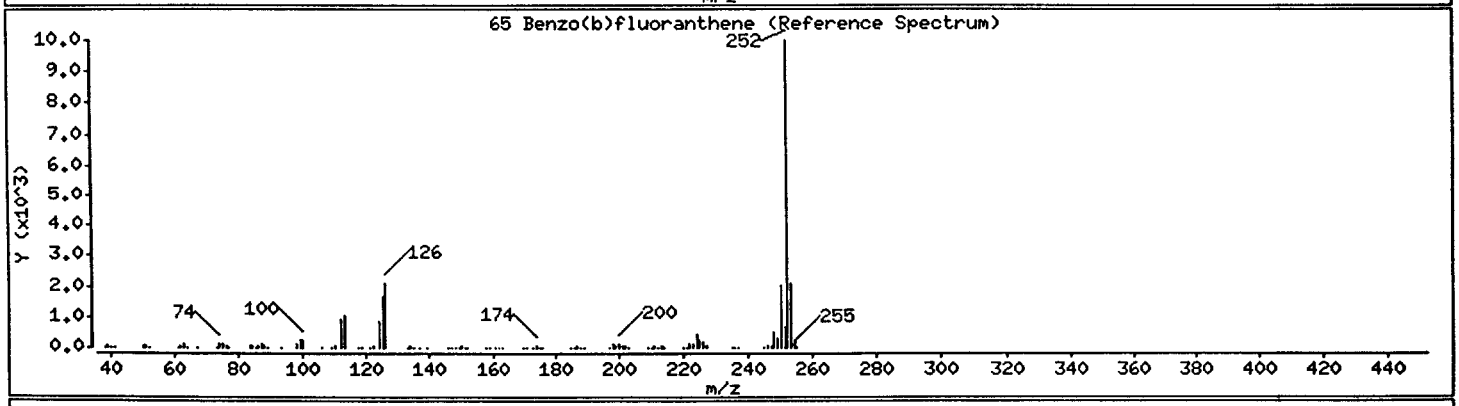
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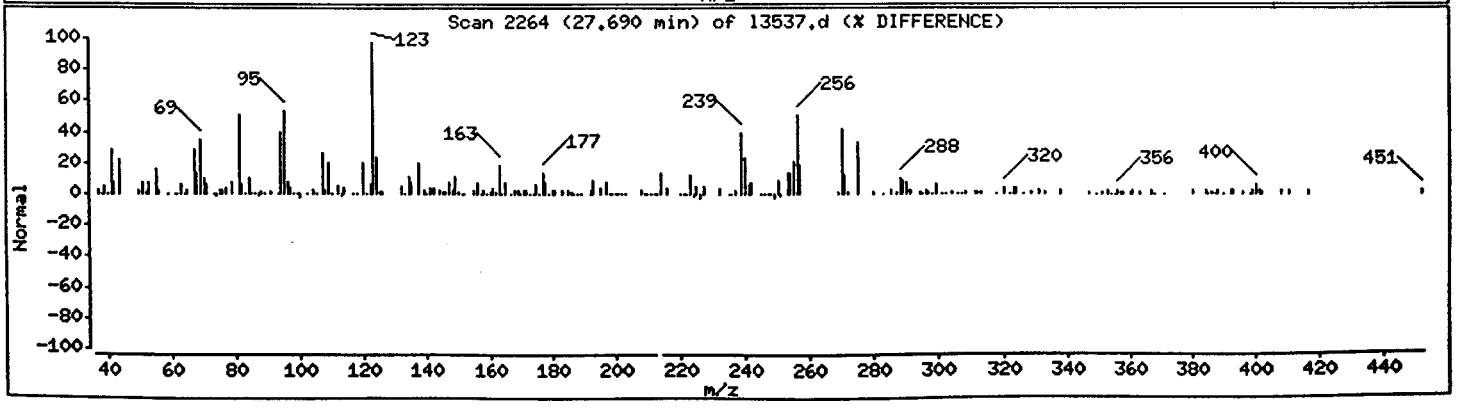
65 Benzo(b)fluoranthene

Concentration: 1300 ug/Kg









Data File: /chem/BNAMS7.i/8270/11-09-00/15nov00.b/13537.d

Date : 15-NOV-2000 13:34

Client ID: RC-3_3rd_Flr

Instrument: BNAMS7.i

Sample Info: 237827;30;10;5;6.8;

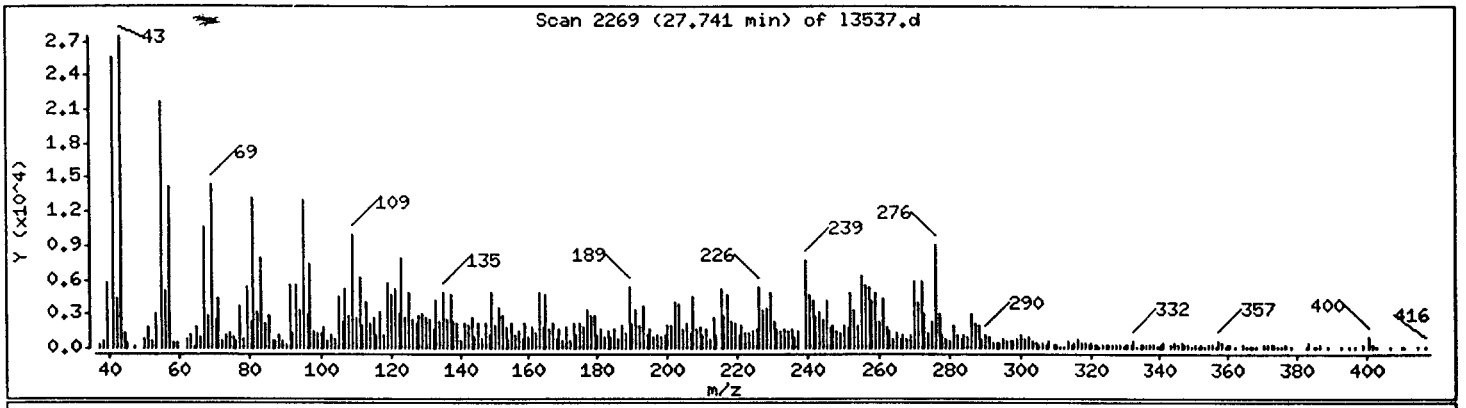
Operator: BNAMS 4

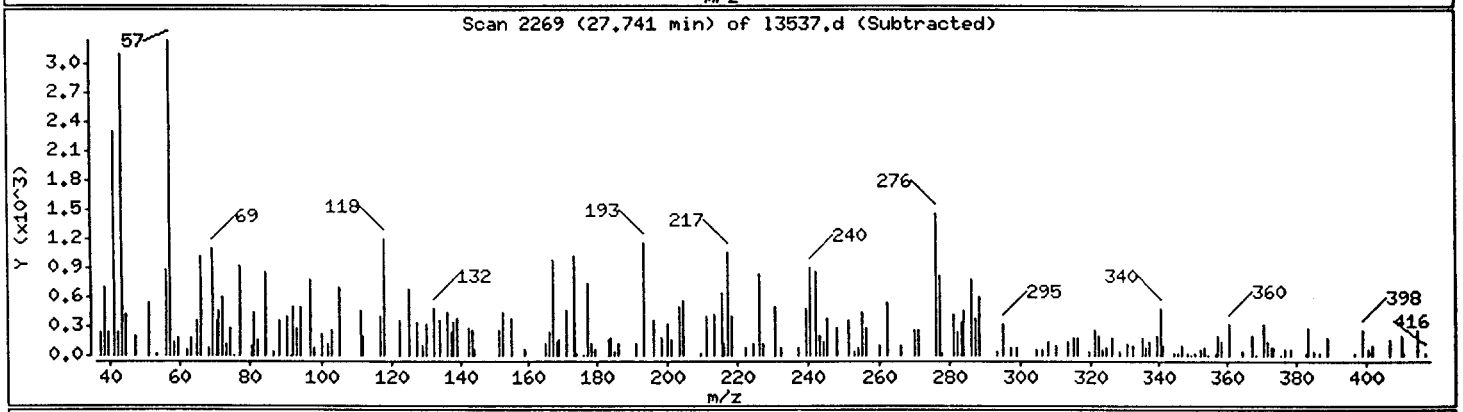
Column phase: DB-5

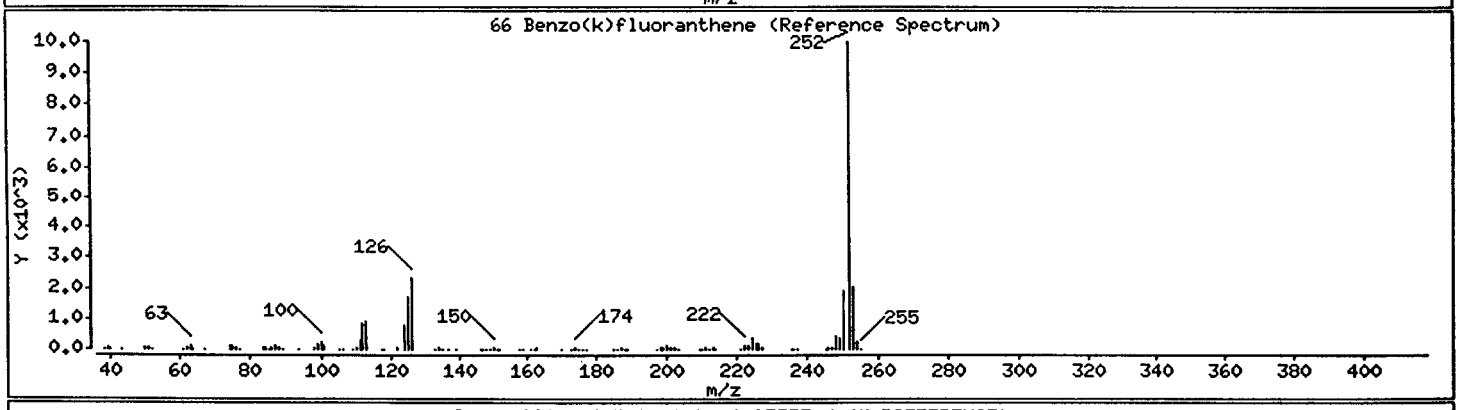
Column diameter: 0.25

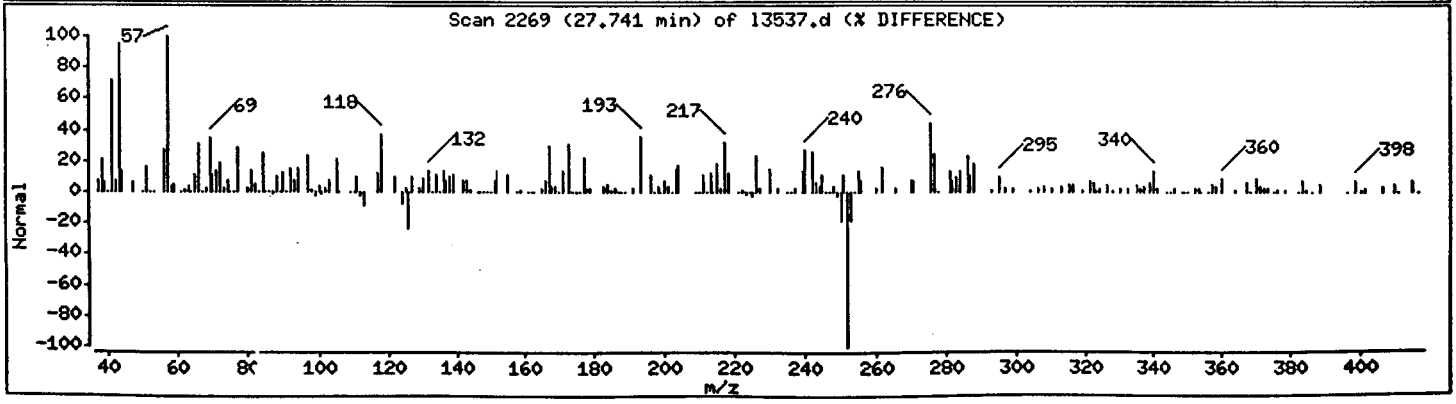
66 Benzo(k)fluoranthene

Concentration: 390 ug/Kg









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Client ID: RC-3_3rd_Flr

Instrument: BNAMS7.i

Sample Info: 237827;30;10;5;6.8;

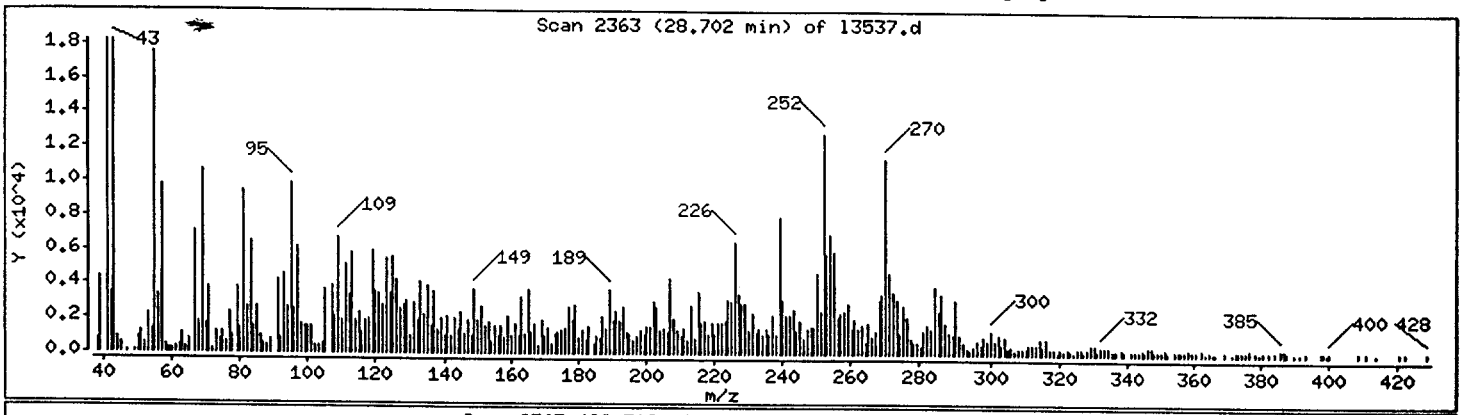
Operator: BNAMS 4

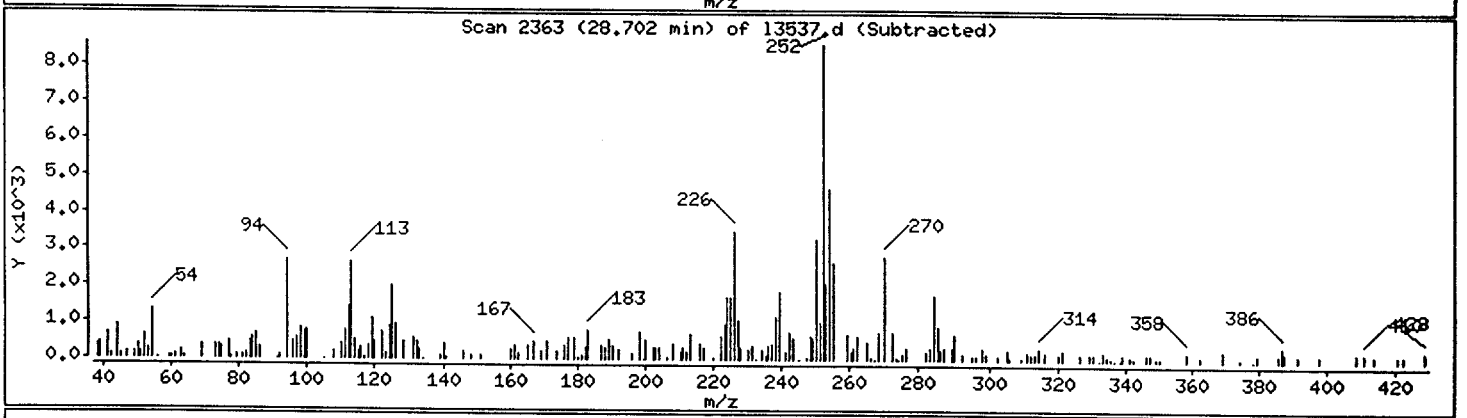
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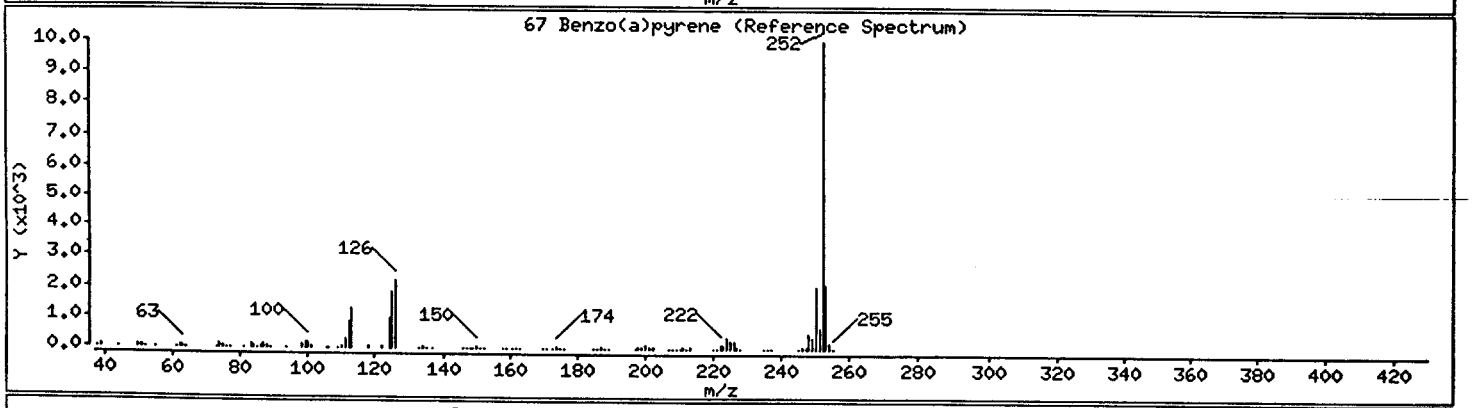
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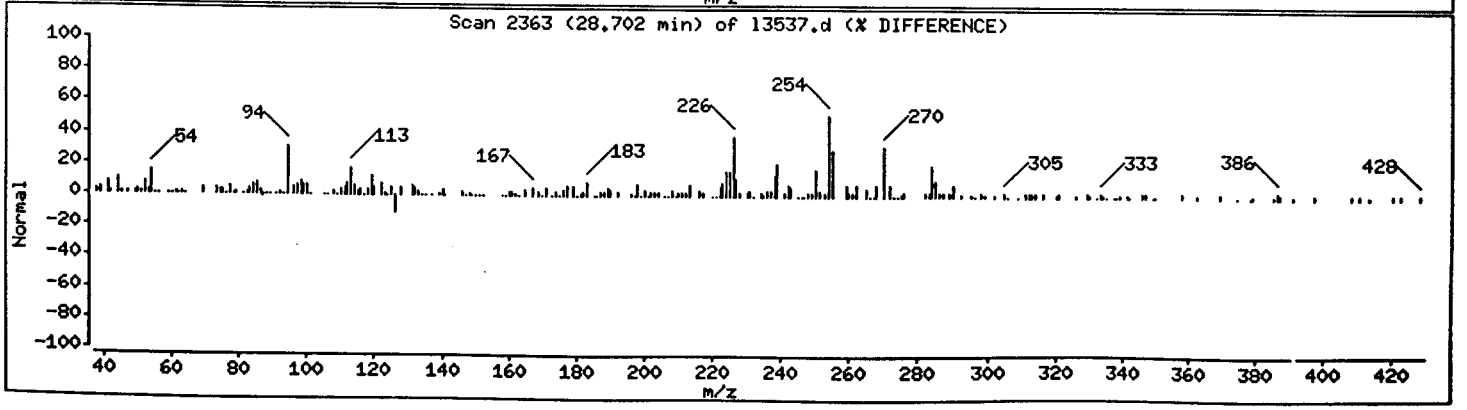
67 Benzo(a)pyrene

Concentration: 1500 ug/Kg









Data File: /chem/BNAMS7.i/8270/11-09-00/15nov00.b/13537.d

Date : 15-NOV-2000 13:34

Client ID: RC-3_3rd_Flr

Instrument: BNAMS7.i

Sample Info: 237827;30;10;5;6.8;

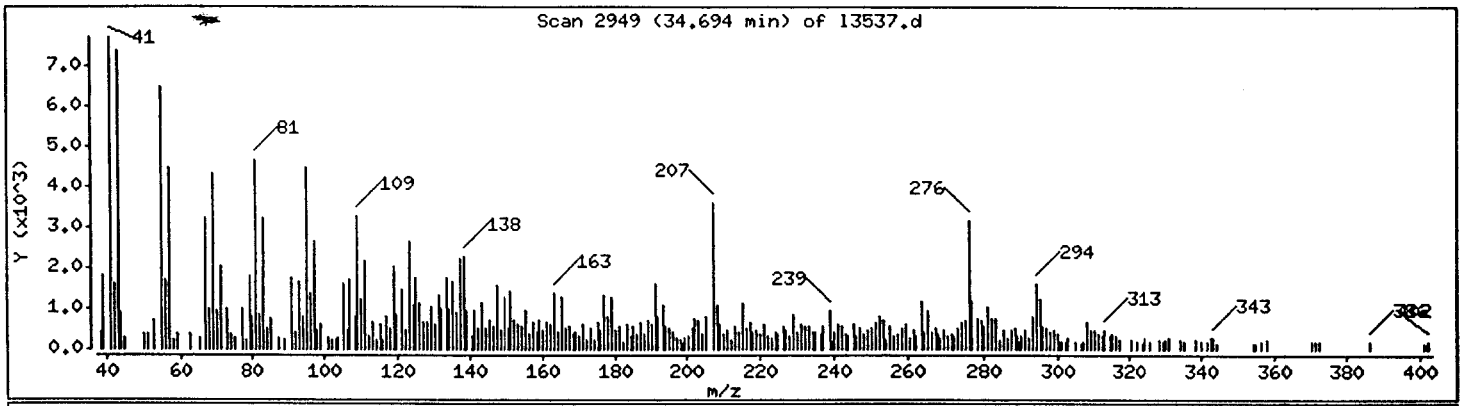
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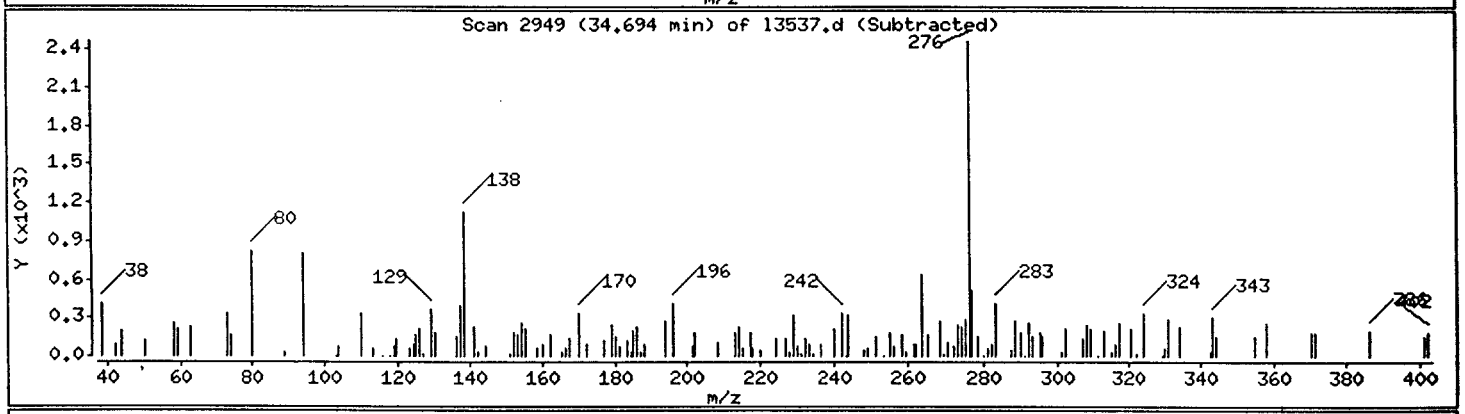
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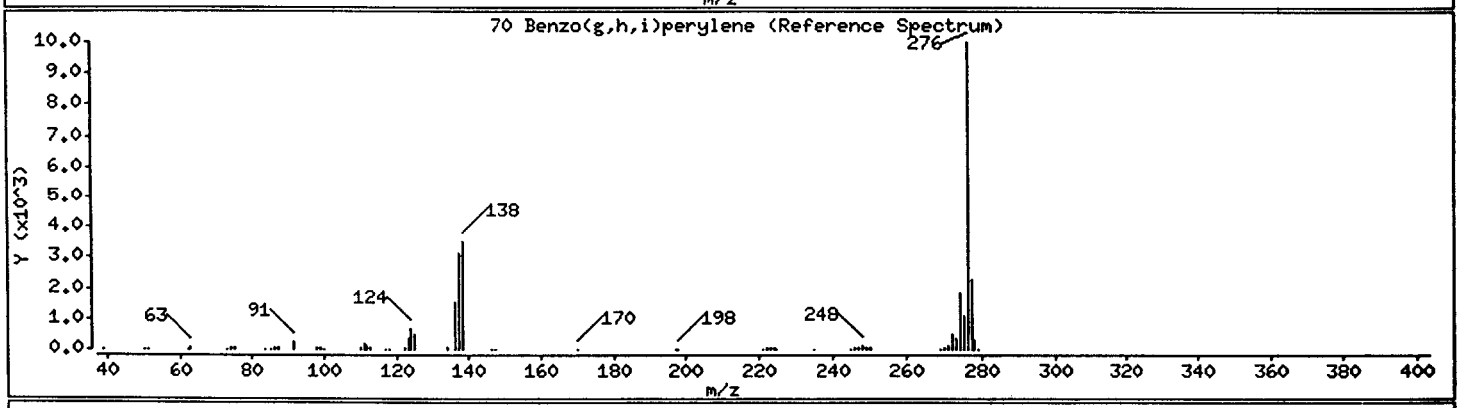
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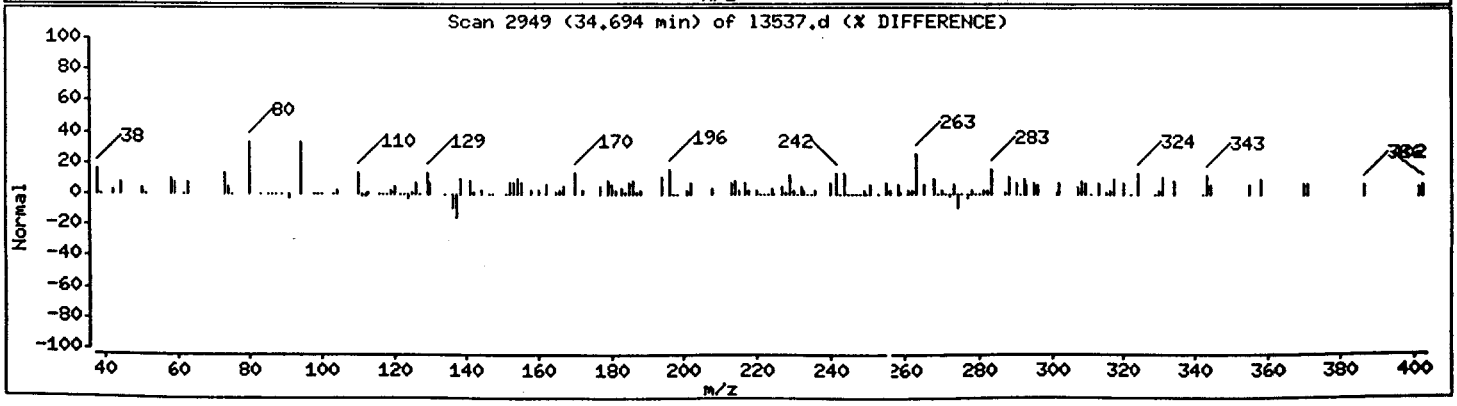
70 Benzo(g,h,i)perylene

Concentration: 780 ug/Kg









Data File: /chem/BNAMS7.i/8270/11-09-00/15nov00.b/13537.d

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Client ID: RC-3_3rd_Flr

Instrument: BNAMS7.i

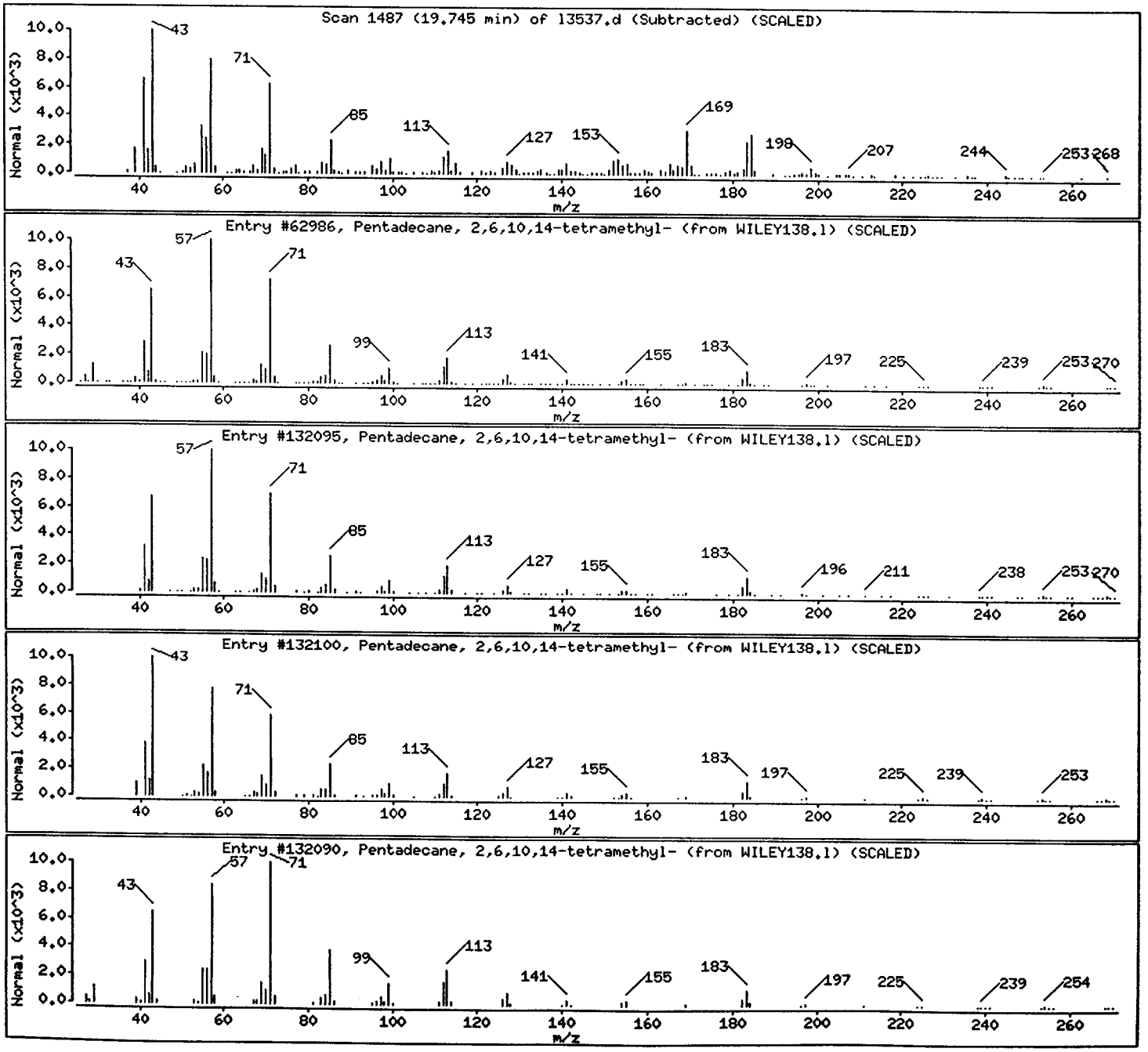
Sample Info: 237827;30;10;5;6.8;

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
C19H40 Alkane						
Pentadecane, 2,6,10,14-tetramethyl-	1921-70-6	WILEY138.l	62986	94	C19H40	268
Pentadecane, 2,6,10,14-tetramethyl-	1921-70-6	WILEY138.l	132095	94	C19H40	268
Pentadecane, 2,6,10,14-tetramethyl-	1921-70-6	WILEY138.l	132100	94	C19H40	268
Pentadecane, 2,6,10,14-tetramethyl-	1921-70-6	WILEY138.l	132090	89	C19H40	268



Data File: /chem/BNAMS7.i/8270/11-09-00/15nov00.b/13537.d

Date : 15-NOV-2000 13:34

Client ID: RC-3_3rd_Flr

Instrument: BNAMS7.i

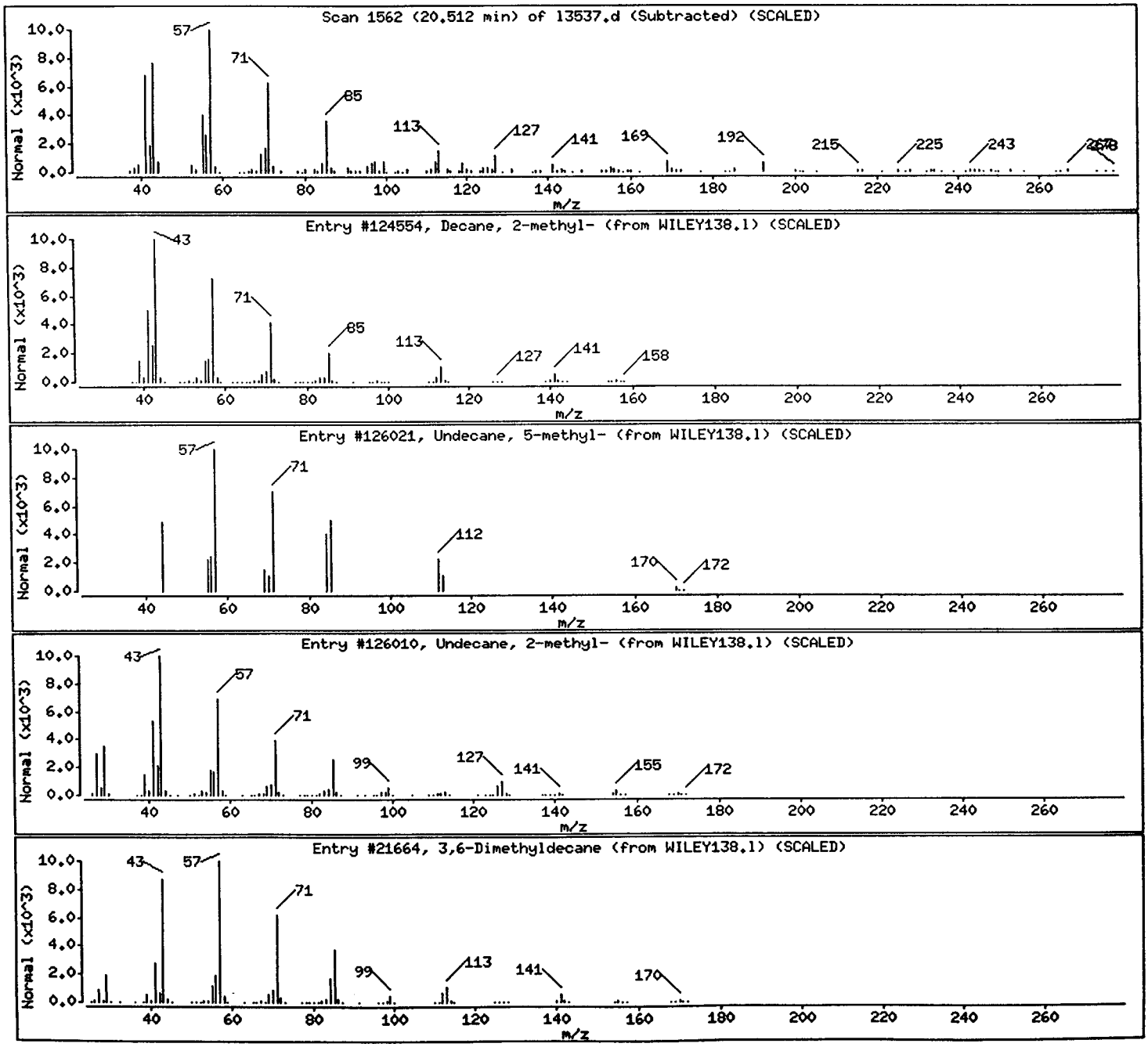
Sample Info: 237827;30;10;5;6.8;

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Decane, 2-methyl-	6975-98-0	WILEY138.l	124554	81	C11H24	156
Undecane, 5-methyl-	1632-70-8	WILEY138.l	126021	80	C12H26	170
Undecane, 2-methyl-	7045-71-8	WILEY138.l	126010	80	C12H26	170
3,6-Dimethyldecane	17312-53-7	WILEY138.l	21664	76	C12H26	170



Data File: /chem/BNAMS7.i/8270/11-09-00/15nov00.b/13537.d

Date : 15-NOV-2000 13:34

Client ID: RC-3_3rd_Flr

Instrument: BNAMS7.i

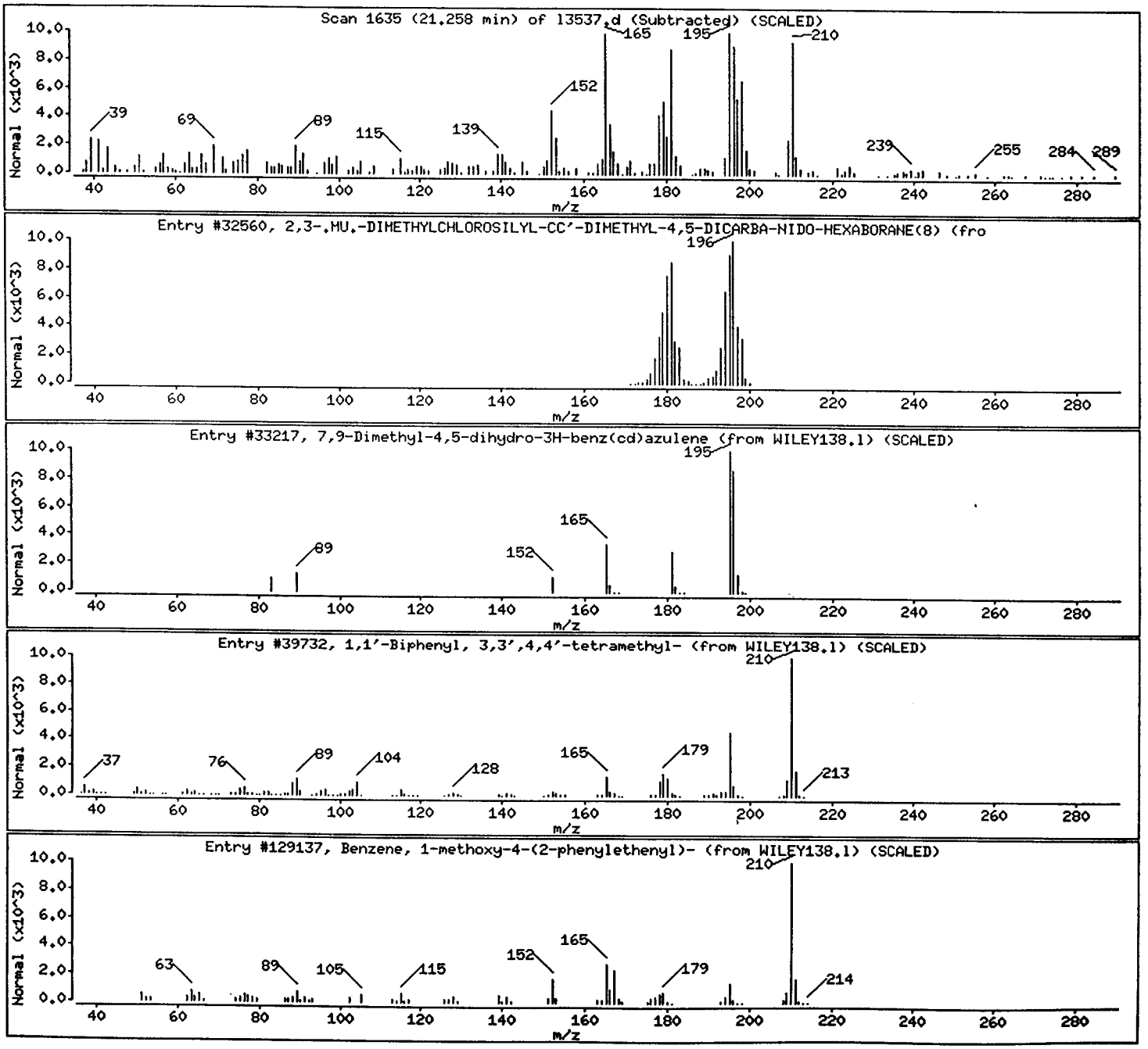
Sample Info: 237827;30;10;5;6.8;

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2,3-.MU.-DIMETHYLCHLOROSILYL-CC'-DIMETHY	36672-04-5	WILEY138.l	32560	74	C6H17B4ClSi	196
7,9-Dimethyl-4,5-dihydro-3H-benz(cd)azul	79209-59-9	WILEY138.l	33217	60	C15H16	196
1,1'-Biphenyl, 3,3',4,4'-tetramethyl-	4920-95-0	WILEY138.l	39732	43	C16H18	210
Benzene, 1-methoxy-4-(2-phenylethenyl)-	1142-15-0	WILEY138.l	129137	42	C15H140	210



Data File: /chem/BNAMS7.i/8270/11-09-00/15nov00.b/13537.d

Date : 15-NOV-2000 13:34

Client ID: RC-3_3rd_Flr

Instrument: BNAMS7.i

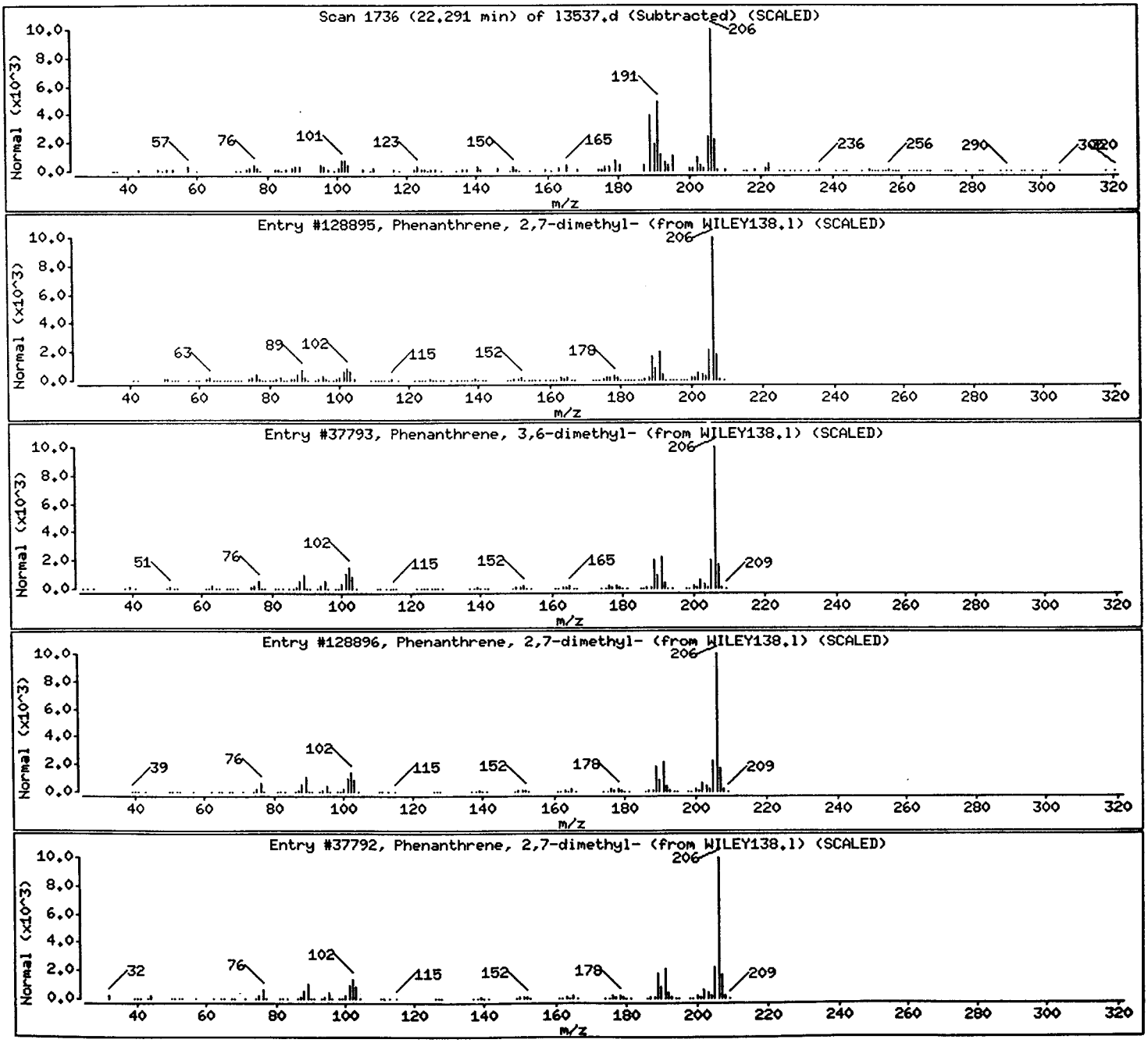
Sample Info: 237827;30;10;5;6.8;

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
C16H14 PAH						
Phenanthrene, 2,7-dimethyl-	1576-69-8	WILEY138.l	128895	90	C16H14	206
Phenanthrene, 3,6-dimethyl-	1576-67-6	WILEY138.l	37793	87	C16H14	206
Phenanthrene, 2,7-dimethyl-	1576-69-8	WILEY138.l	128896	87	C16H14	206
Phenanthrene, 2,7-dimethyl-	1576-69-8	WILEY138.l	37792	87	C16H14	206



Data File: /chem/BNAMS7.i/8270/11-09-00/15nov00.b/13537.d

Date : 15-NOV-2000 13:34

Client ID: RC-3_3rd_Flr

Instrument: BNAMS7.i

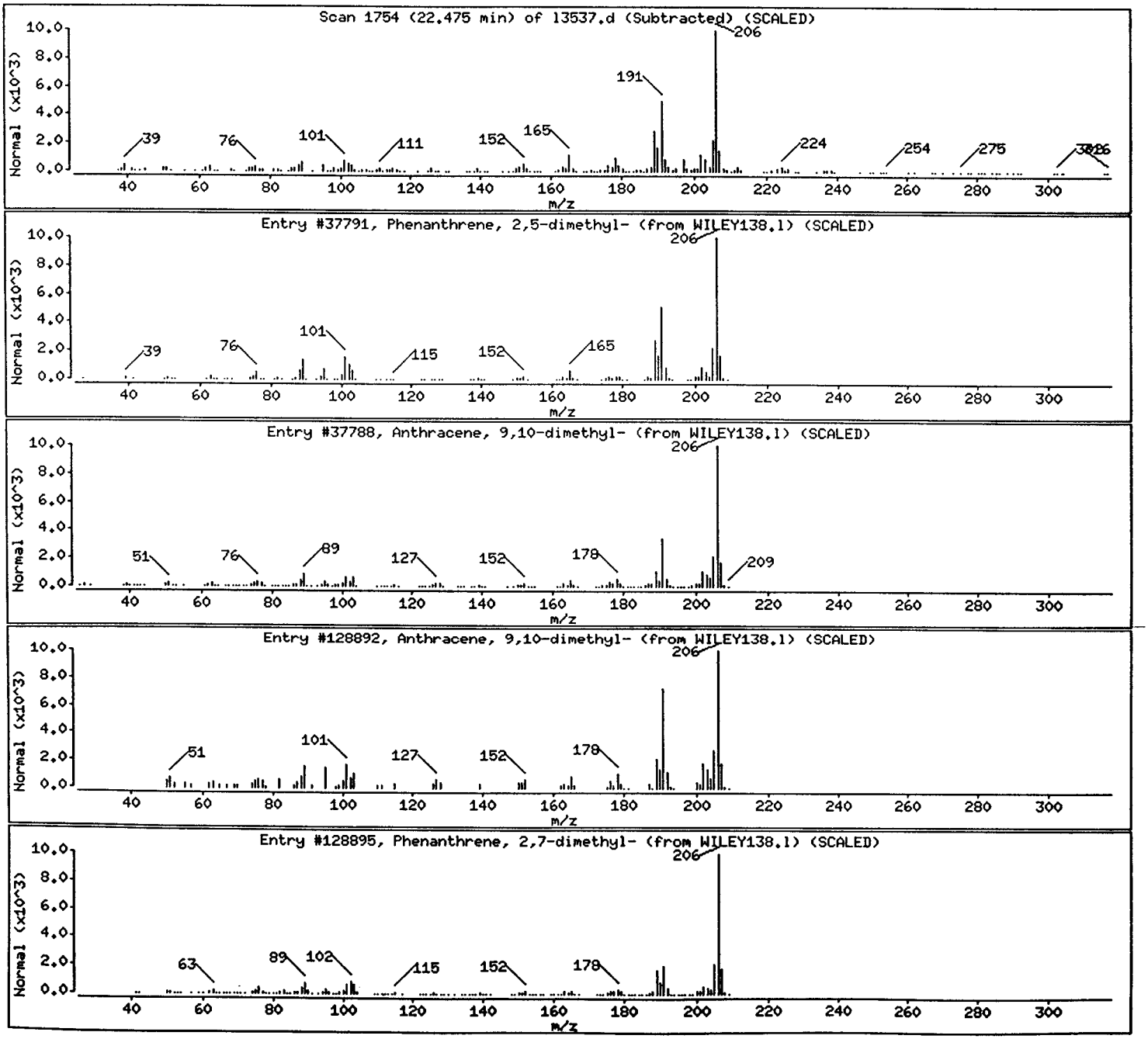
Sample Info: 237827;30;10;5;6.8;

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
C16H14 PAH						
Phenanthrene, 2,5-dimethyl-	3674-66-6	WILEY138.l	37791	95	C16H14	206
Anthracene, 9,10-dimethyl-	781-43-1	WILEY138.l	37788	91	C16H14	206
Anthracene, 9,10-dimethyl-	781-43-1	WILEY138.l	128892	91	C16H14	206
Phenanthrene, 2,7-dimethyl-	1576-69-8	WILEY138.l	128895	90	C16H14	206



Data File: /chem/BNAHS7.i/8270/11-09-00/15nov00.b/13537.d

Date : 15-NOV-2000 13:34

Client ID: RC-3_3rd_Flr

Instrument: BNAHS7.i

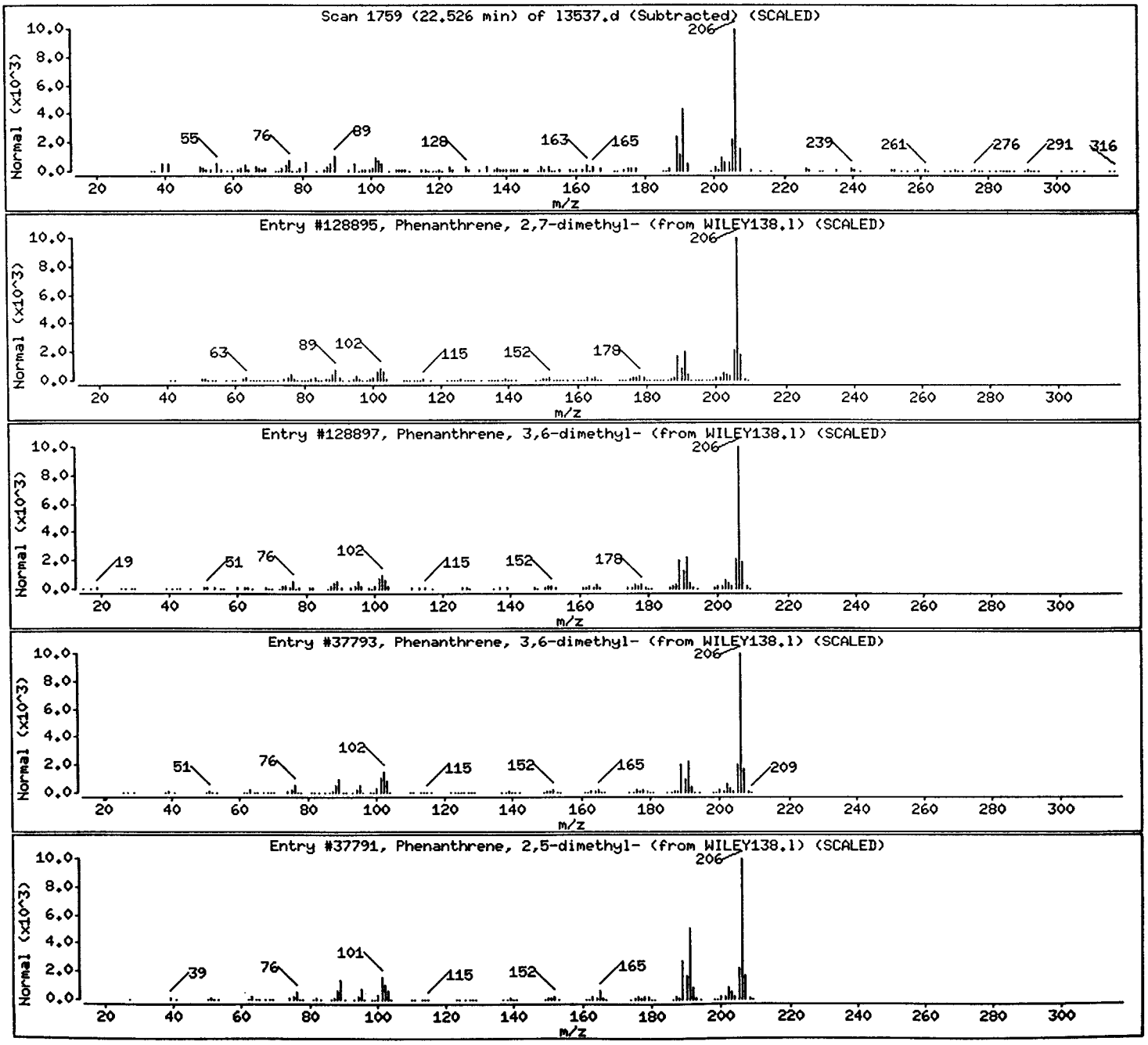
Sample Info: 237827;30;10;5;6.8;

Operator: BNAHS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
C16H14 PAH						
Phenanthrene, 2,7-dimethyl-	1576-69-8	WILEY138.l	128895	96	C16H14	206
Phenanthrene, 3,6-dimethyl-	1576-67-6	WILEY138.l	128897	93	C16H14	206
Phenanthrene, 3,6-dimethyl-	1576-67-6	WILEY138.l	37793	91	C16H14	206
Phenanthrene, 2,5-dimethyl-	3674-66-6	WILEY138.l	37791	91	C16H14	206



Data File: /chem/BNAMS7.i/8270/11-09-00/15nov00.b/13537.d

Date : 15-NOV-2000 13:34

Client ID: RC-3_3rd_Flr

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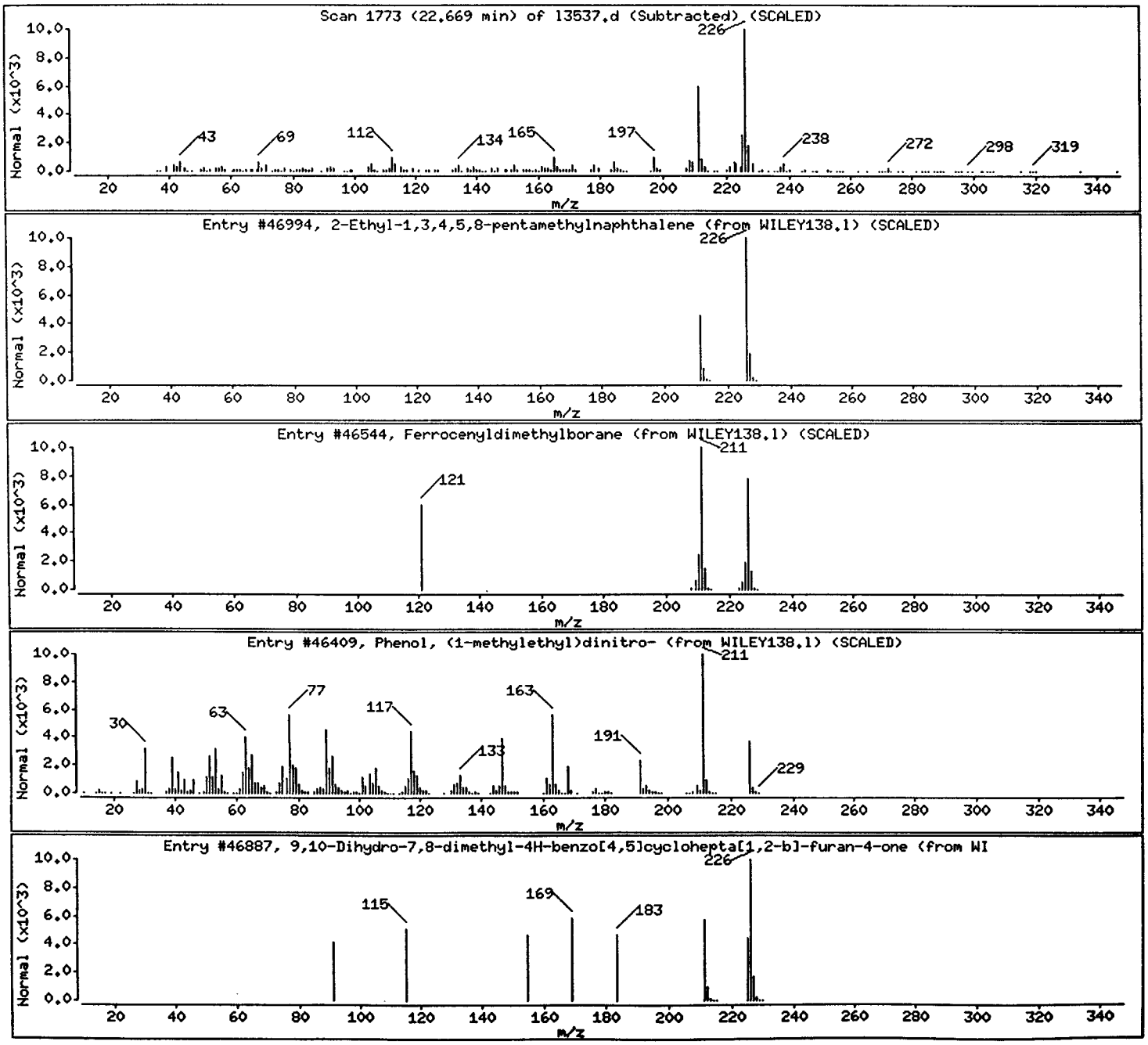
Sample Info: 237827;30;10;5;6.8;

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Ethyl-1,3,4,5,8-pentamethylnaphthalene	71185-29-0	WILEY138.l	46994	64	C17H22	226
Ferrocenyldimethylborane	61649-69-2	WILEY138.l	46544	64	C12H15BFe	226
Phenol, (1-methylethyl)dinitro-	29385-11-3	WILEY138.l	46409	58	C9H10N2O5	226
9,10-Dihydro-7,8-dimethyl-4H-benzo[4,5]c	81093-24-5	WILEY138.l	46887	47	C15H14O2	226



Data File: /chem/BNAMS7.i/8270/11-09-00/15nov00.b/13537.d

Date : 15-NOV-2000 13:34

Client ID: RC-3_3rd_Flr

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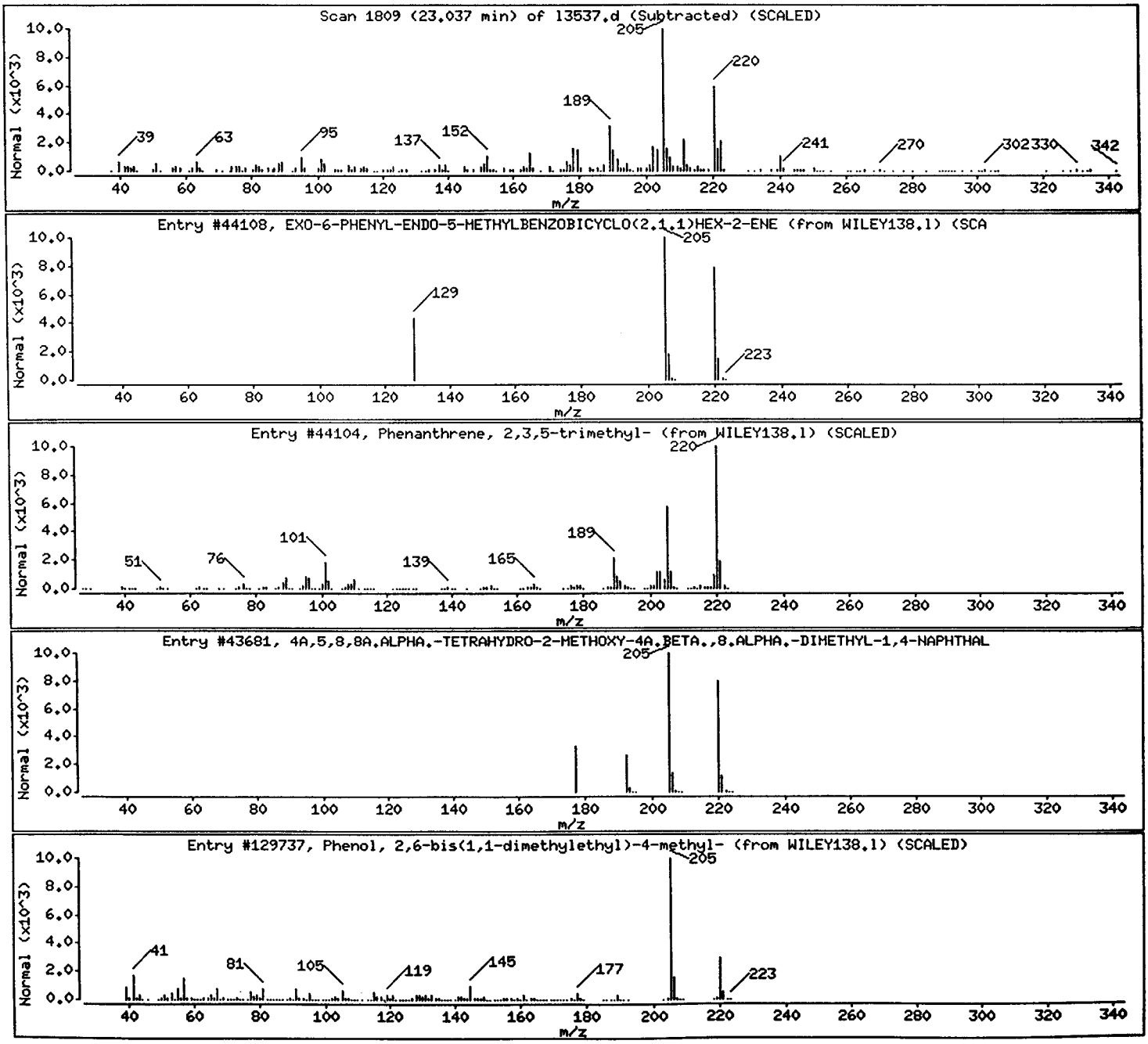
Sample Info: 237827;30;10;5;6.8;

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
EXO-6-PHENYL-ENDO-5-METHYLBENZOBICYCLO(2	67457-00-5	WILEY138.l	44108	50	C17H16	220
Phenanthrene, 2,3,5-trimethyl-	3674-73-5	WILEY138.l	44104	50	C17H16	220
4A,5,8,8A.ALPHA.-TETRAHYDRO-2-METHOXY-4A	58822-92-7	WILEY138.l	43681	47	C13H1603	220
Phenol, 2,6-bis(1,1-dimethylethyl)-4-met	128-37-0	WILEY138.l	129737	47	C15H240	220



Data File: /chem/BNAMS7.i/8270/11-09-00/15nov00.b/13537.d

Date : 15-NOV-2000 13:34

Client ID: RC-3_3rd_Flr

Instrument: BNAMS7.i

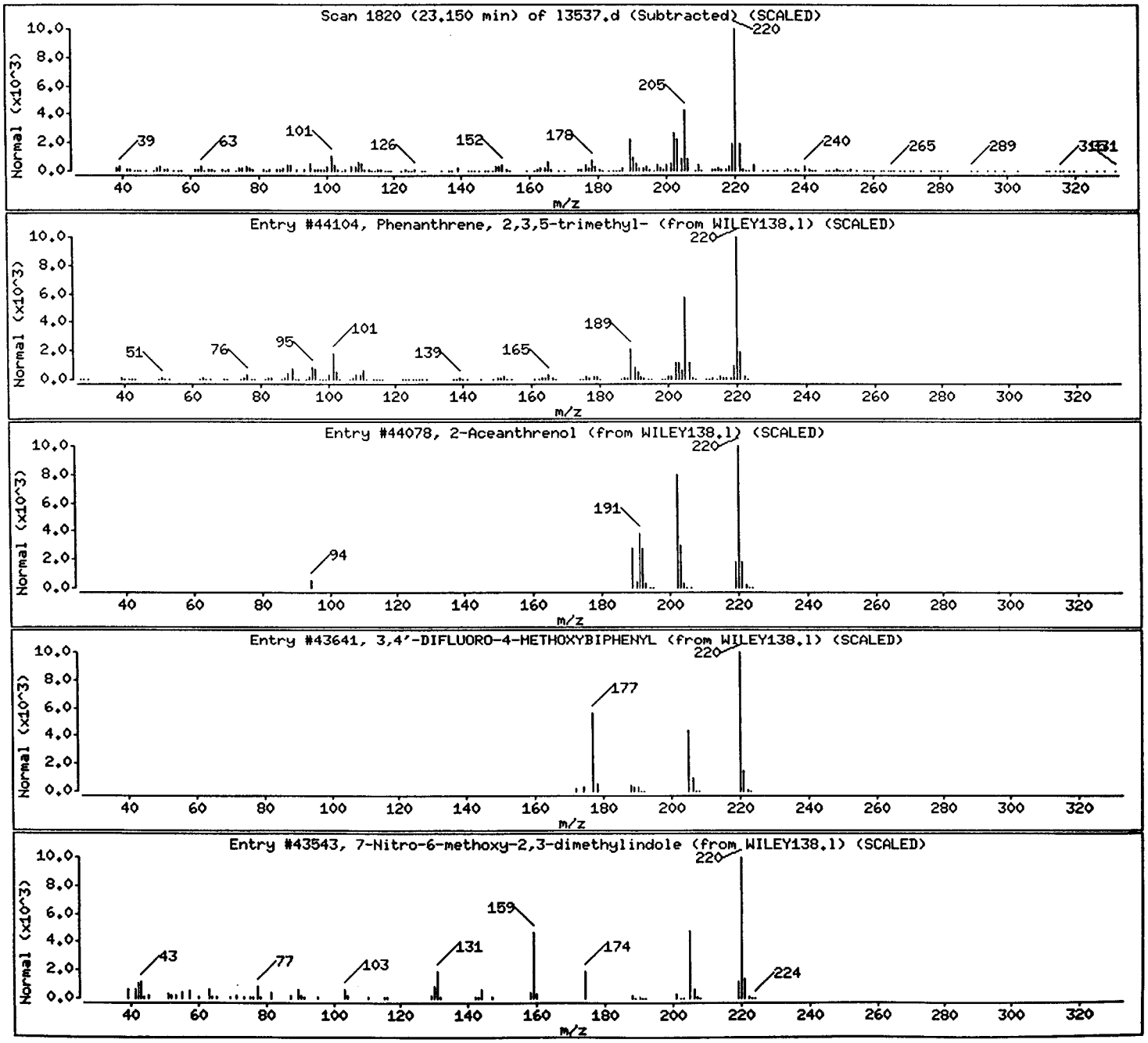
Sample Info: 237827;30;10;5;6.8;

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
C17H16 PAH						
Phenanthrene, 2,3,5-trimethyl-	3674-73-5	WILEY138.1	44104	86	C17H16	220
2-Aceanthrenol	90047-30-6	WILEY138.1	44078	52	C16H12O	220
3,4'-DIFLUORO-4-METHOXYBIPHENYL	0-00-0	WILEY138.1	43641	49	C13H10F2O	220
7-Nitro-6-methoxy-2,3-dimethylindole	68289-71-4	WILEY138.1	43543	47	C11H12N2O3	220



Data File: /chem/BNAHS7.i/8270/11-09-00/15nov00.b/13537.d

Date : 15-NOV-2000 13:34

Client ID: RC-3_3rd_Flr

Instrument: BNAHS7.i

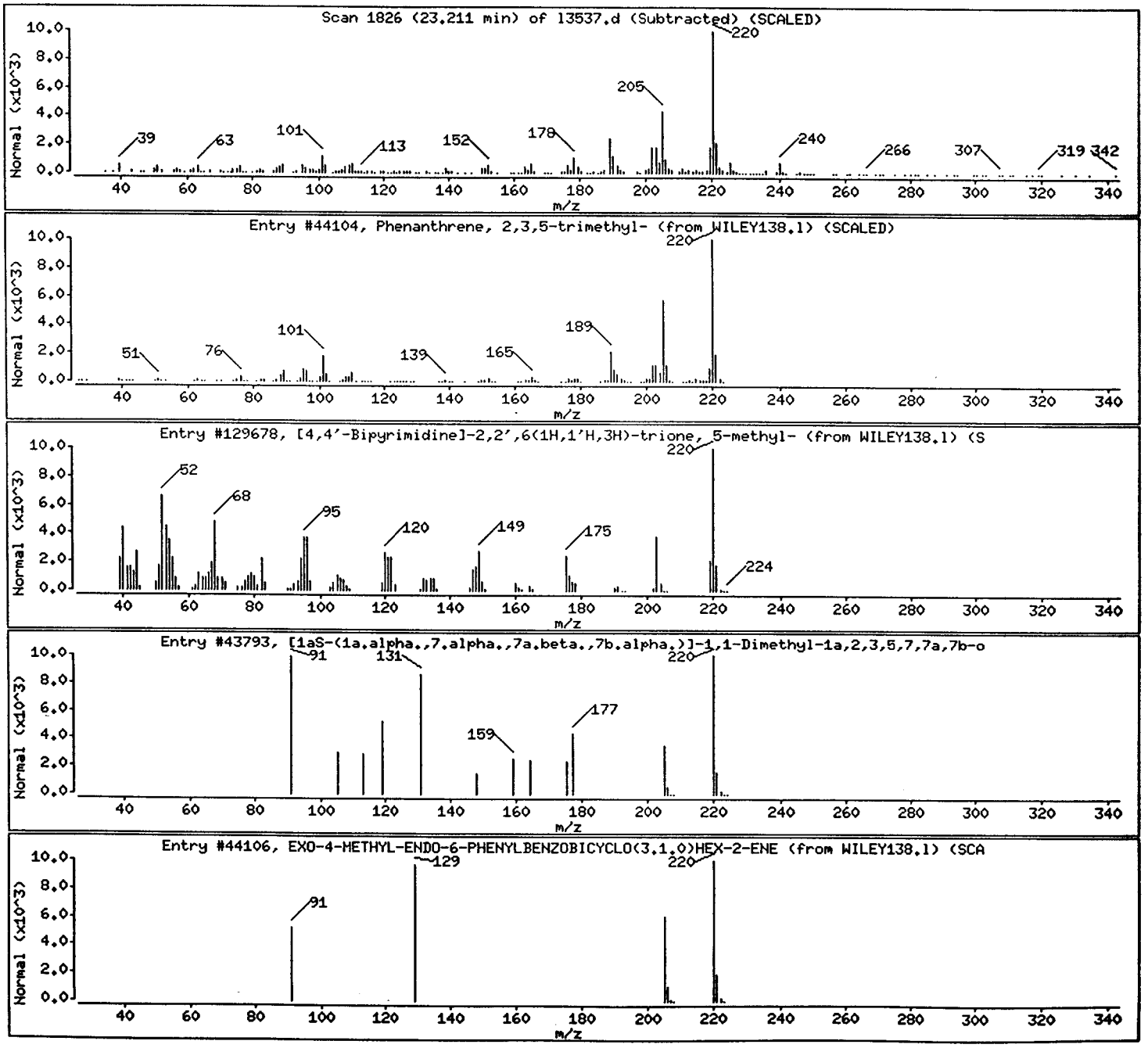
Sample Info: 237827;30;10;5;6.8;

Operator: BNAHS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
C17H16 PAH						
Phenanthrene, 2,3,5-trimethyl-	3674-73-5	WILEY138.1	44104	93	C17H16	220
[4,4'-Bipyrimidine]-2,2',6(1H,1'H,3H)-tr	18694-06-9	WILEY138.1	129678	90	C9H8N4O3	220
[1aS-(1a.alpha.,7.alpha.,7a.beta.,7b.alp	77346-79-3	WILEY138.1	43793	62	C14H2002	220
EXO-4-METHYL-ENDO-6-PHENYLBENZOBICYCLO(3	67457-01-6	WILEY138.1	44106	58	C17H16	220



Data File: /chem/BNAMS7.i/8270/11-09-00/15nov00.b/13537.d

Date : 15-NOV-2000 13:34

Client ID: RC-3_3rd_Flr

Instrument: BNAMS7.i

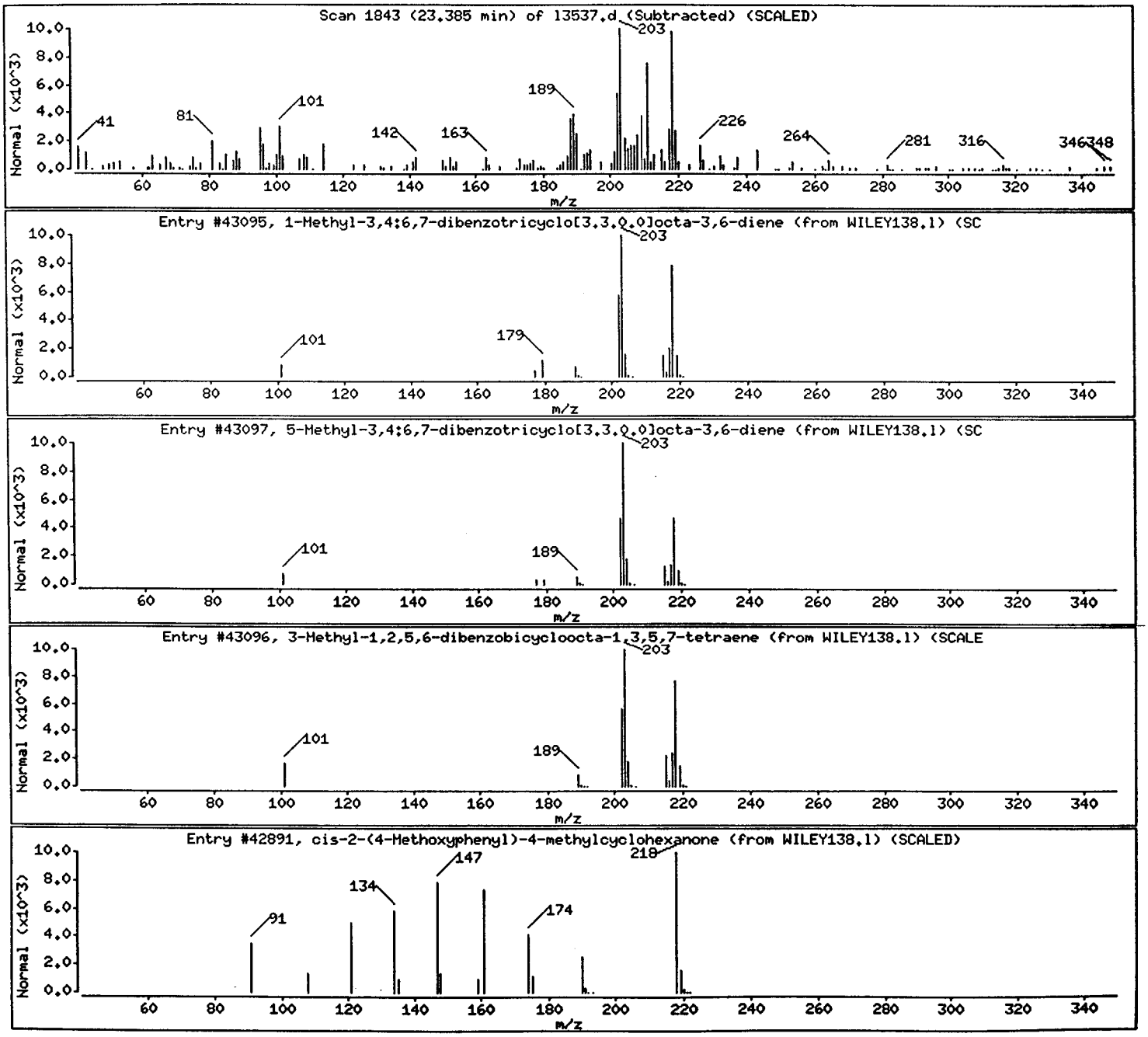
Sample Info: 237827;30;10;5;6.8;

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Methyl-3,4;6,7-dibenzotricyclo[3.3.0.0	0-00-0	WILEY138.l	43095	50	C17H14	218
5-Methyl-3,4;6,7-dibenzotricyclo[3.3.0.0	0-00-0	WILEY138.l	43097	45	C17H14	218
3-Methyl-1,2,5,6-dibenzobicycloocta-1,3,	0-00-0	WILEY138.l	43096	43	C17H14	218
cis-2-(4-Methoxyphenyl)-4-methylcyclohex	84736-51-6	WILEY138.l	42891	25	C14H1802	218



Data File: /chem/BNAMS7.i/8270/11-09-00/15nov00.b/13537.d

Date : 15-NOV-2000 13:34

Client ID: RC-3_3rd_Flr

Instrument: BNAMS7.i

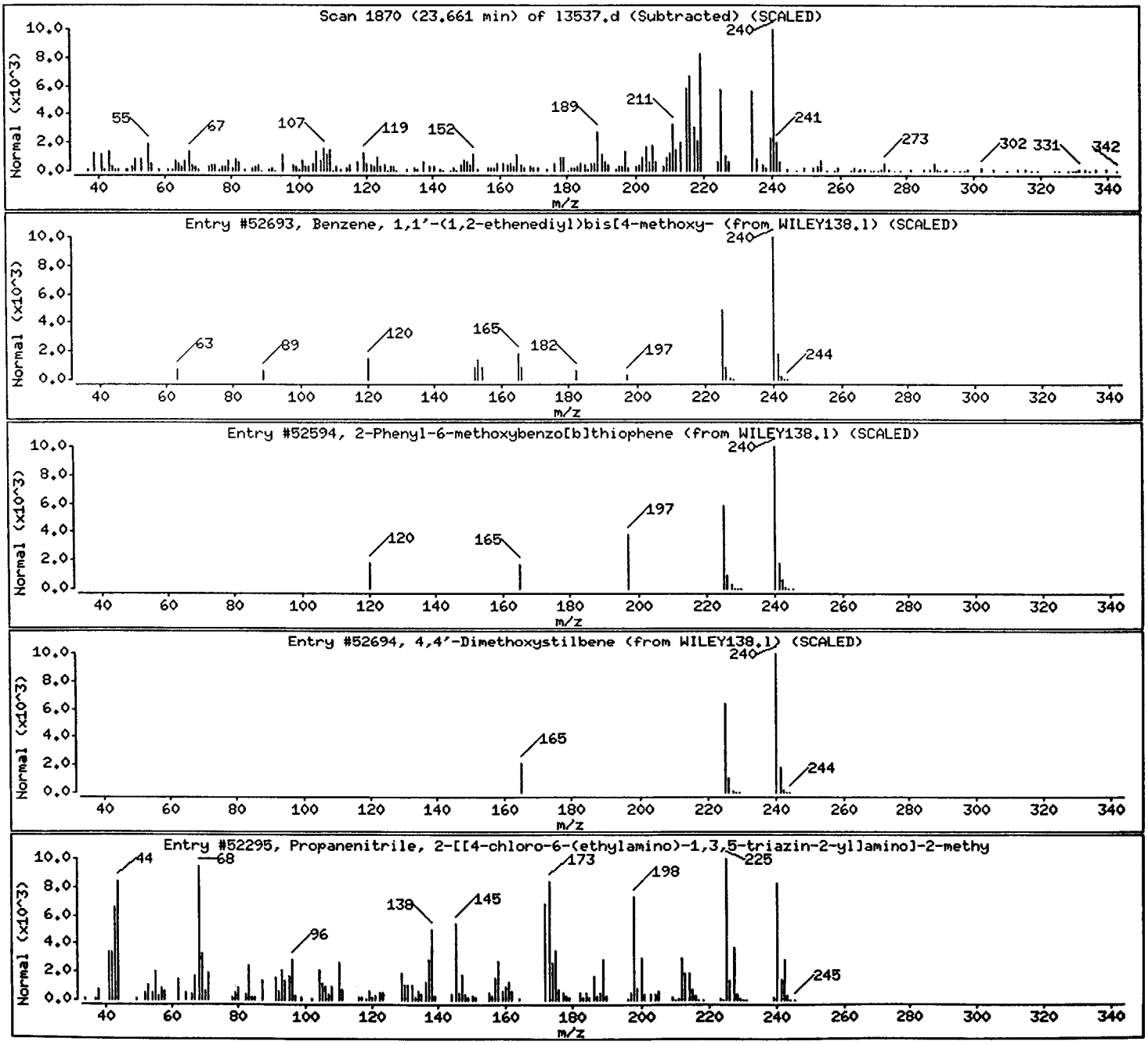
Sample Info: 237827;30;10;5;6.8;

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Benzene, 1,1'-(1,2-ethenediyl)bis[4-meth	4705-34-4	WILEY138.l	52693	22	C16H1602	240
2-Phenyl-6-methoxybenzo[b]thiophene	92014-01-2	WILEY138.l	52594	22	C15H120S	240
4,4'-Dimethoxystilbene	15638-14-9	WILEY138.l	52694	22	C16H1602	240
Propanenitrile, 2-[[4-chloro-6-(ethylami	21725-46-2	WILEY138.l	52295	20	C9H13ClN6	240



Data File: /chem/BNAMS7.i/8270/11-09-00/15nov00.b/13537.d

Date : 15-NOV-2000 13:34

Client ID: RC-3_3rd_Flr

Instrument: BNAMS7.i

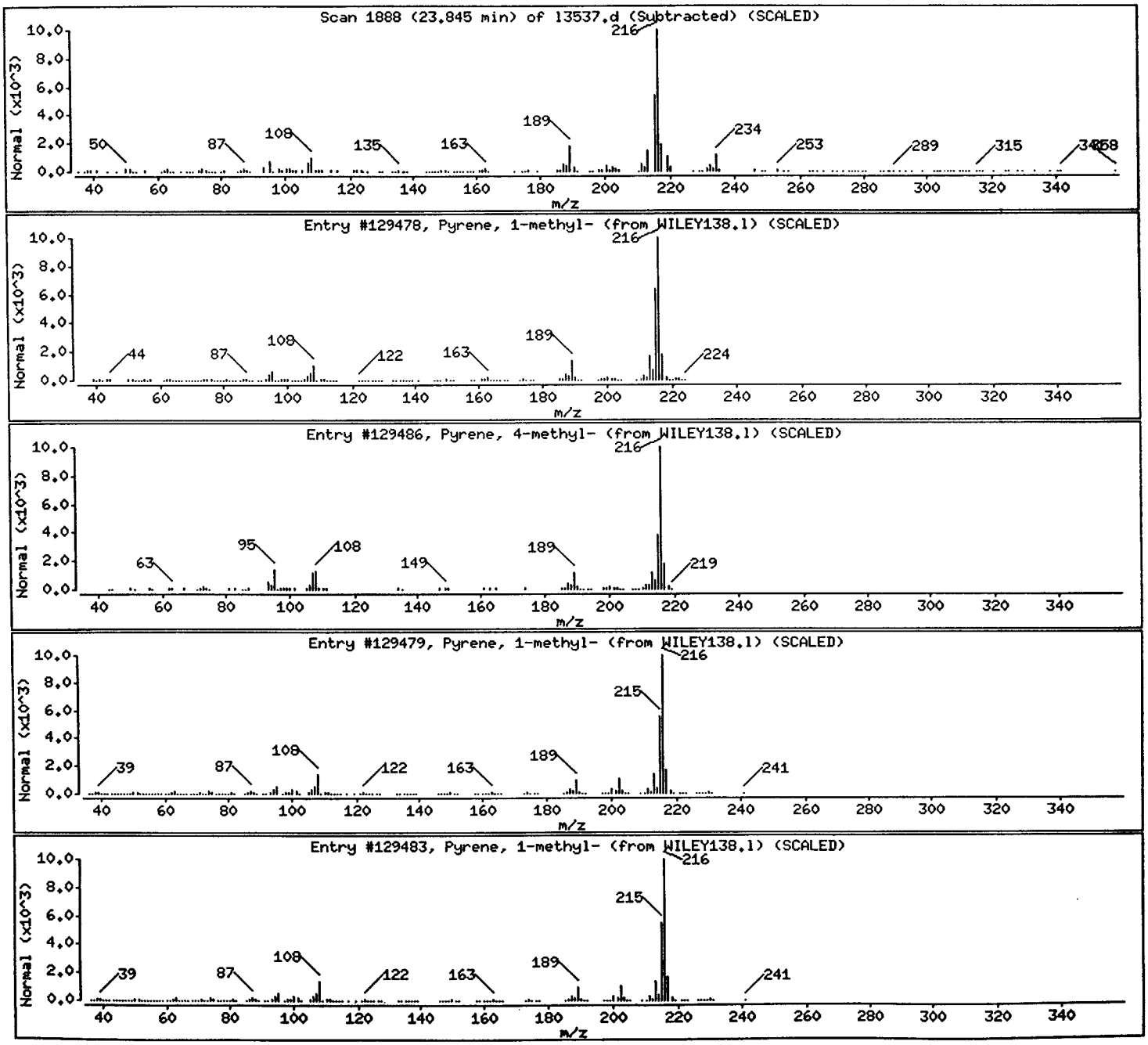
Sample Info: 237827;30;10;5;6.8;

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
C17H12 PAH						
Pyrene, 1-methyl-	2381-21-7	WILEY138.l	129478	94	C17H12	216
Pyrene, 4-methyl-	3353-12-6	WILEY138.l	129486	90	C17H12	216
Pyrene, 1-methyl-	2381-21-7	WILEY138.l	129479	90	C17H12	216
Pyrene, 1-methyl-	2381-21-7	WILEY138.l	129483	90	C17H12	216



Data File: /chem/BNAHS7.i/8270/11-09-00/15nov00.b/13537.d

Date : 15-NOV-2000 13:34

Client ID: RC-3_3rd_Flr

Instrument: BNAHS7.i

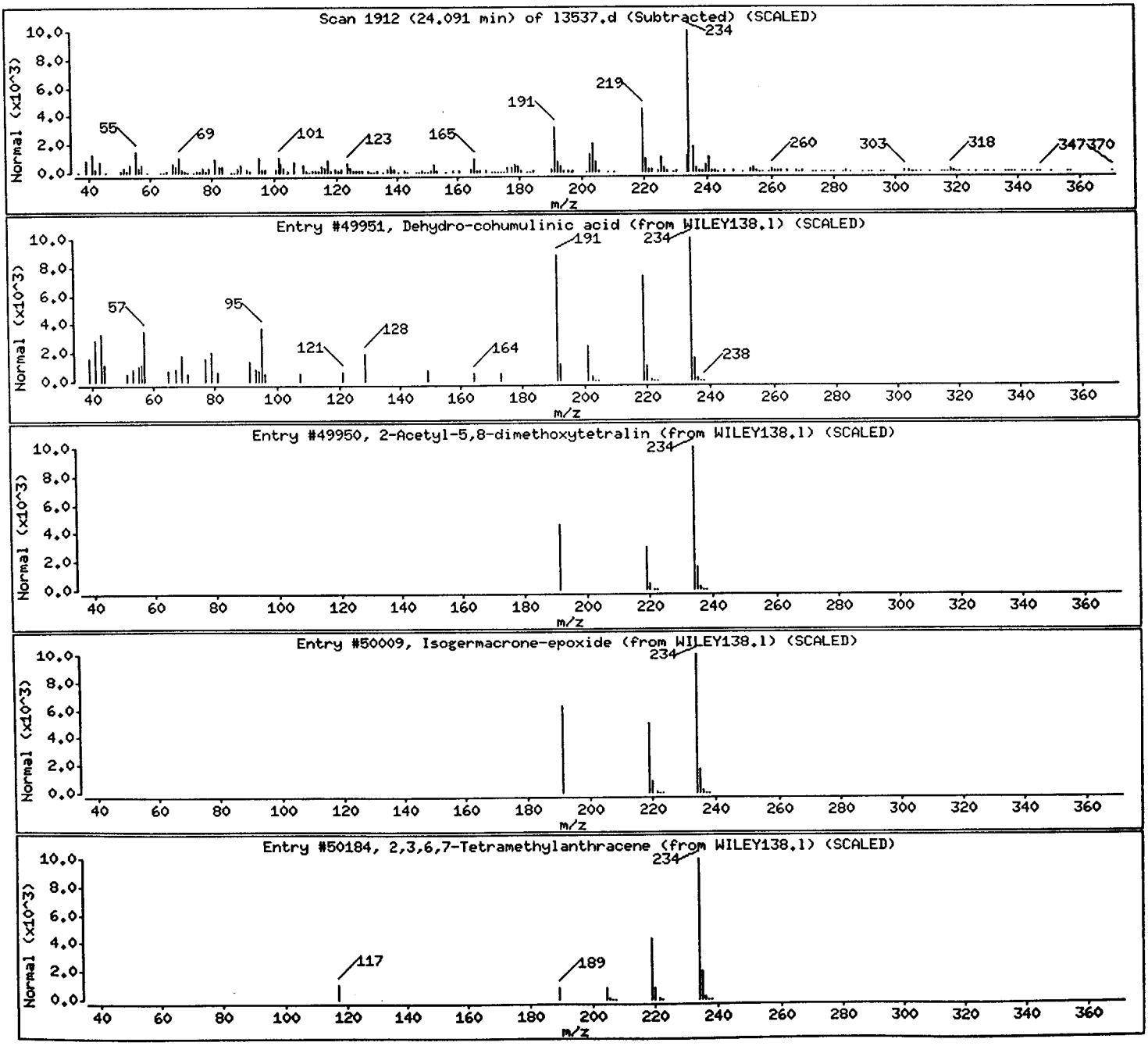
Sample Info: 237827;30;10;5;6.8;

Operator: BNAHS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Dehydro-cohumulinic acid	0-00-0	WILEY138.1	49951	68	C14H1803	234
2-Acetyl-5,8-dimethoxytetralin	33654-68-1	WILEY138.1	49950	64	C14H1803	234
Isogermacrone-epoxide	89362-62-9	WILEY138.1	50009	59	C15H2202	234
2,3,6,7-Tetramethylanthracene	15254-25-8	WILEY138.1	50184	58	C18H18	234



Data File: /chem/BNAMS7.i/8270/11-09-00/15nov00.b/13537.d

Date : 15-NOV-2000 13:34

Client ID: RC-3_3rd_Flr

Instrument: BNAMS7.i

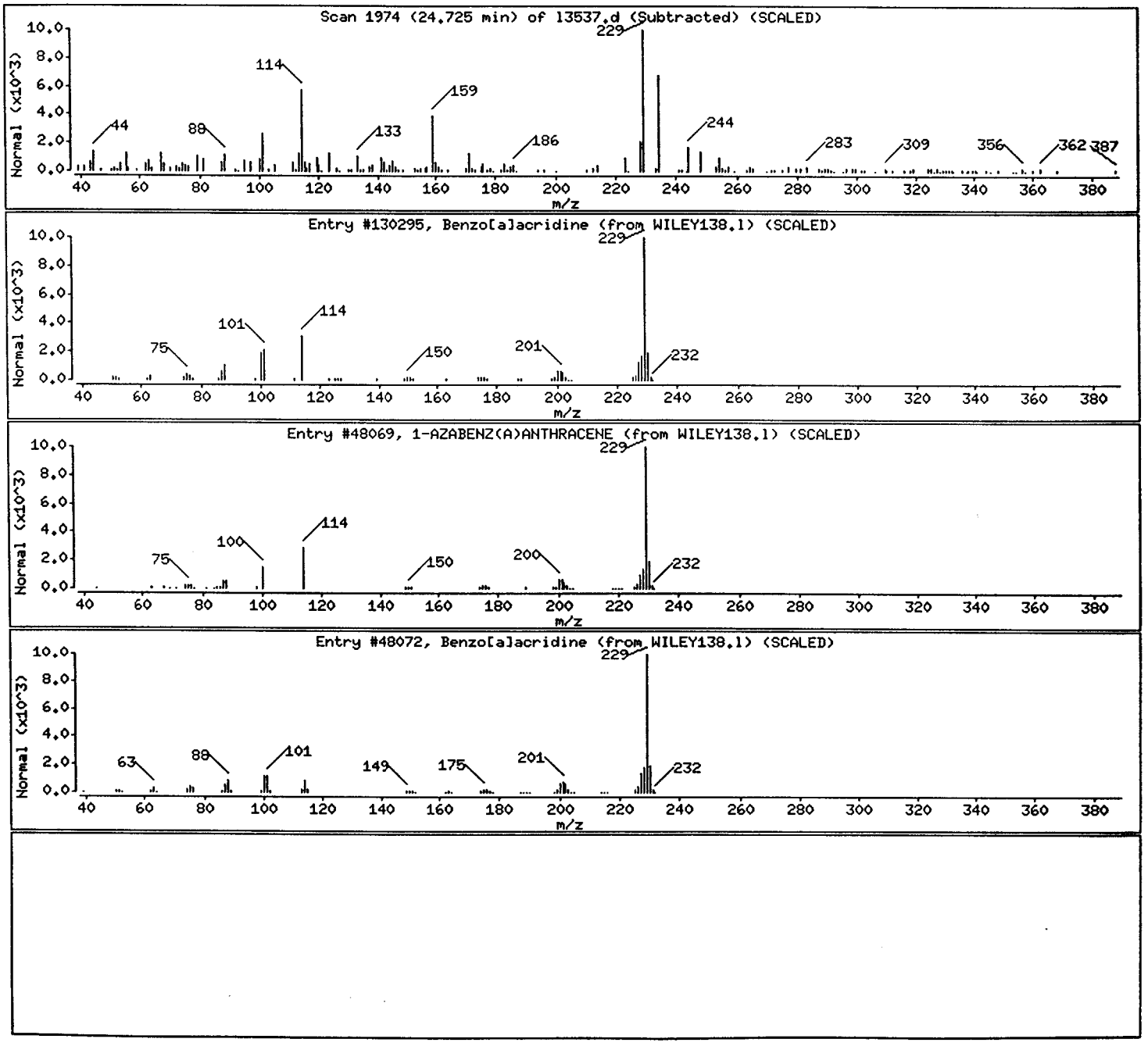
Sample Info: 237827;30;10;5;6.8;

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Benzo[a]acridine	225-11-6	WILEY138.l	130295	43	C17H11N	229
1-AZABENZ(A)ANTHRACENE	0-00-0	WILEY138.l	48069	35	C17H11N	229
Benzo[a]acridine	225-11-6	WILEY138.l	48072	30	C17H11N	229



Client ID: **RC-4_4th_Flr**
Site: Rexam DSI

Lab Sample No: **237828**
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 11/01/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3321.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 10.0 ml
Dilution Factor: 25.0
% Moisture: 4

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
N-Nitrosodimethylamine	ND	43000
bis(2-Chloroethyl)ether	ND	4300
1,3-Dichlorobenzene	ND	43000
1,4-Dichlorobenzene	ND	43000
1,2-Dichlorobenzene	ND	43000
bis(2-chloroisopropyl)ether	ND	43000
N-Nitroso-di-n-propylamine	ND	4300
Hexachloroethane	ND	4300
Nitrobenzene	ND	4300
Isophorone	ND	43000
bis(2-Chloroethoxy)methane	ND	43000
1,2,4-Trichlorobenzene	ND	4300
Naphthalene	ND	43000
Hexachlorobutadiene	ND	8700
Hexachlorocyclopentadiene	ND	43000
2-Chloronaphthalene	ND	43000
Dimethylphthalate	ND	43000
Acenaphthylene	ND	43000
2,6-Dinitrotoluene	ND	8700
Acenaphthene	ND	43000
2,4-Dinitrotoluene	ND	8700
Diethylphthalate	ND	43000
4-Chlorophenyl-phenylether	ND	43000
Fluorene	ND	43000
N-Nitrosodiphenylamine	ND	43000
4-Bromophenyl-phenylether	ND	43000
Hexachlorobenzene	ND	4300
Phenanthrene	ND	43000
Anthracene	ND	43000
Di-n-butylphthalate	ND	43000
Fluoranthene	1500 J	43000
Pyrene	6600 J	43000
Benzidine	ND	170000
Butylbenzylphthalate	ND	43000

Client ID: **RC-4_4th_Flr**
Site: Rexam DSI

Lab Sample No: **237828**
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 11/01/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3321.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 10.0 ml
Dilution Factor: 25.0
% Moisture: 4

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
3,3'-Dichlorobenzidine	ND	87000
Benzo(a)anthracene	890 J	4300
Chrysene	1400 J	43000
bis(2-Ethylhexyl)phthalate	ND	43000
Di-n-octylphthalate	ND	43000
Benzo(b)fluoranthene	ND	4300
Benzo(k)fluoranthene	ND	4300
Benzo(a)pyrene	5000	4300
Indeno(1,2,3-cd)pyrene	ND	4300
Dibenz(a,h)anthracene	ND	4300
Benzo(g,h,i)perylene	ND	43000

Client ID: **RC-4_4th_Flr**
Site: Rexam DSI

Lab Sample No: **237828**
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 11/01/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3321.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 10.0 ml
Dilution Factor: 25.0
% Moisture: 4.1

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	Unknown	26.36	70000	
2.	Unknown Sterol	28.23	100000	
3.	Unknown	31.15	170000	
4.	Unknown	32.54	170000	
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION 510000

Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/l3321.d
Report Date: 02-Nov-2000 08:14

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS7.i/8270/11-01-00/01nov00.b/l3321.d
Lab Smp Id: 237828 Client Smp ID: RC-4_4th_Flr
Inj Date : 01-NOV-2000 23:04
Operator : BNAMS 4 Inst ID: BNAMS7.i
Smp Info : 237828;30;10;25;4.1
Misc Info : F104;PPBN+15;6924;114
Comment :
Method : /chem/BNAMS7.i/8270/11-01-00/01nov00.b/8270C1.m
Meth Date : 02-Nov-2000 06:00 acierno Quant Type: ISTD
Cal Date : 01-NOV-2000 15:44 Cal File: l3312.d
Als bottle: 14
Dil Factor: 25.00000
Integrator: HP RTE Compound Sublist: PPBNb.sub
Target Version: 3.50
Processing Host: hpd1

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	25.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	10.00000	Volume of final extract (ml)
Ws	30.00000	Weight of sample extracted (g)
M	4.10000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
* 79 1,4-Dichlorobenzene-d4	152	13.115	13.116	(1.000)	216116	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	14.066	14.077	(0.919)	4757	0.39672	3400(aH)
* 80 Naphthalene-d8	136	15.303	15.304	(1.000)	781191	40.0000	
$ 77 2-Fluorobiphenyl (SUR)	172	17.092	17.094	(0.937)	5117	0.29278	2500(aH)
* 82 Acenaphthene-d10	164	18.238	18.249	(1.000)	544412	40.0000	
* 83 Phenanthrene-d10	188	20.722	20.723	(1.000)	1092180	40.0000	
56 Fluoranthene	202	22.747	22.738	(1.098)	5238	0.16955	1500(a)
57 Pyrene	202	23.125	23.126	(0.917)	31653	0.75745	6600(a)
$ 78 Terphenyl-d14 (SUR)	244	23.350	23.341	(0.926)	9682	0.27781	2400(aM)
61 Benzo(a)anthracene	228	25.140	25.161	(0.997)	4614	0.10242	890(a)
* 81 Chrysene-d12	240	25.221	25.192	(1.000)	1621434	40.0000	
62 Chrysene	228	25.313	25.243	(1.004)	6425	0.15768	1400(a)
67 Benzo(a)pyrene	252	28.626	28.709	(0.986)	19322	0.57033	5000(M)

Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/l3321.d
Report Date: 02-Nov-2000 08:14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
* 84 Perylene-d12	264	29.025	28.914	(1.000)	1241317	40.0000	

QC Flag Legend

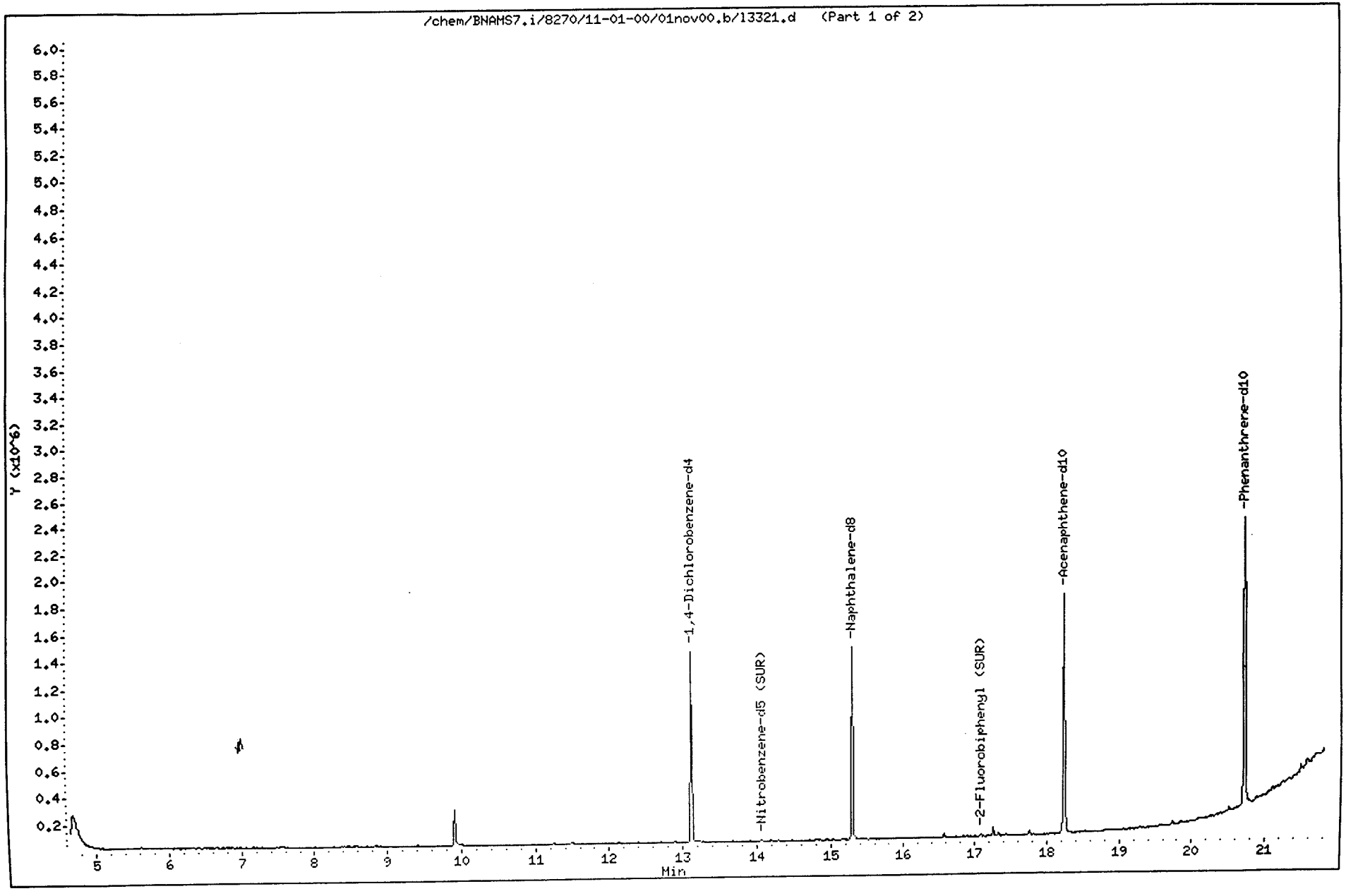
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/13321.d
Date : 01-NOV-2000 23:04
Client ID: RC-4_4th_Flr
Sample Info: 237828;30;10;25;4.1

Instrument: BNAMS7.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5



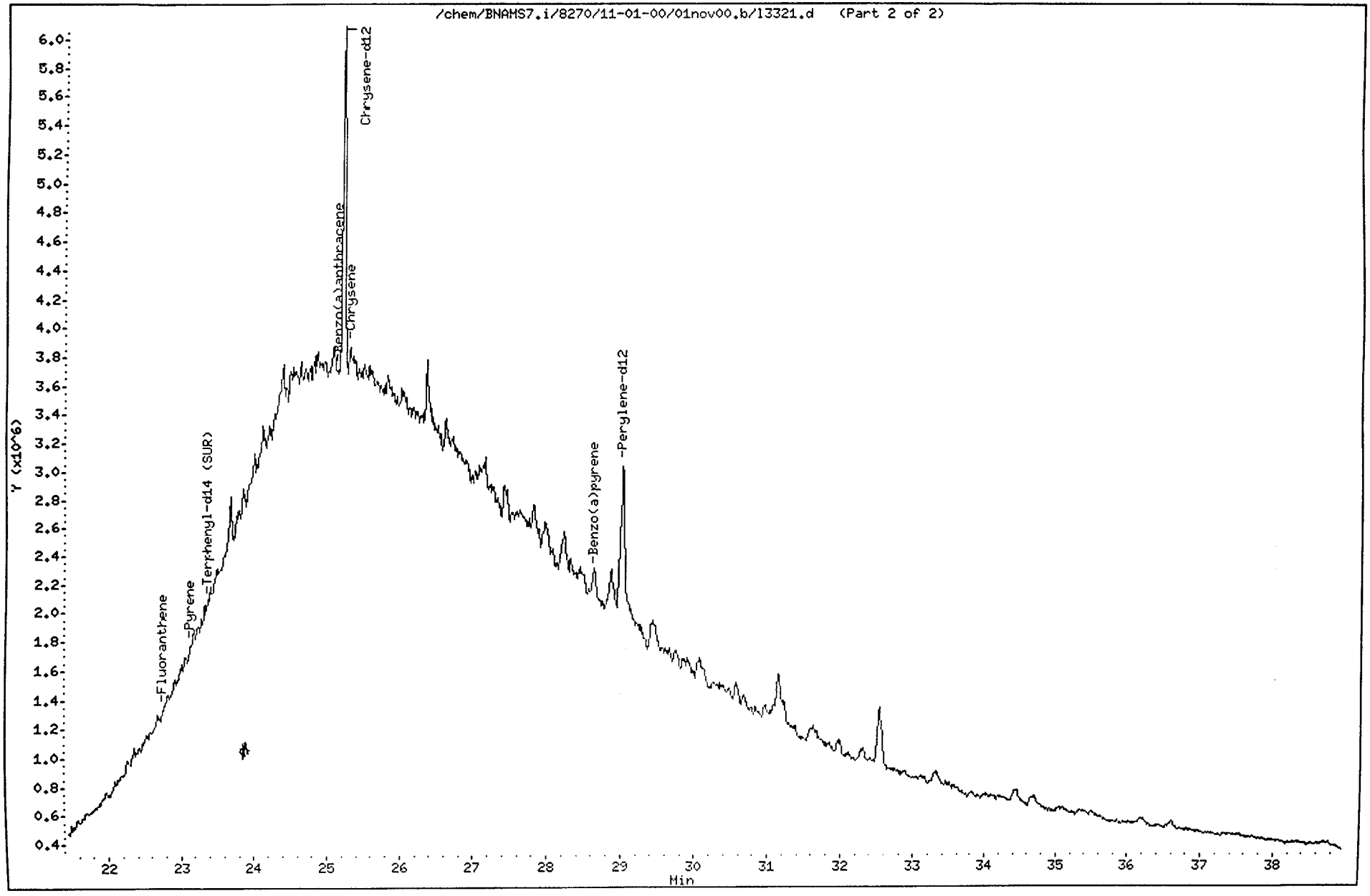
Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/13321.d
Date : 01-NOV-2000 23:04
Client ID: RC-4_4th_Flr
Sample Info: 237828;30;10;25;4.1

Instrument: BNAMS7.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5

812



Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/13321.d

Date : 01-NOV-2000 23:04

Client ID: RC-4_4th_Flr

Instrument: BNAMS7.i

Sample Info: 237828;30;10;25;4.1

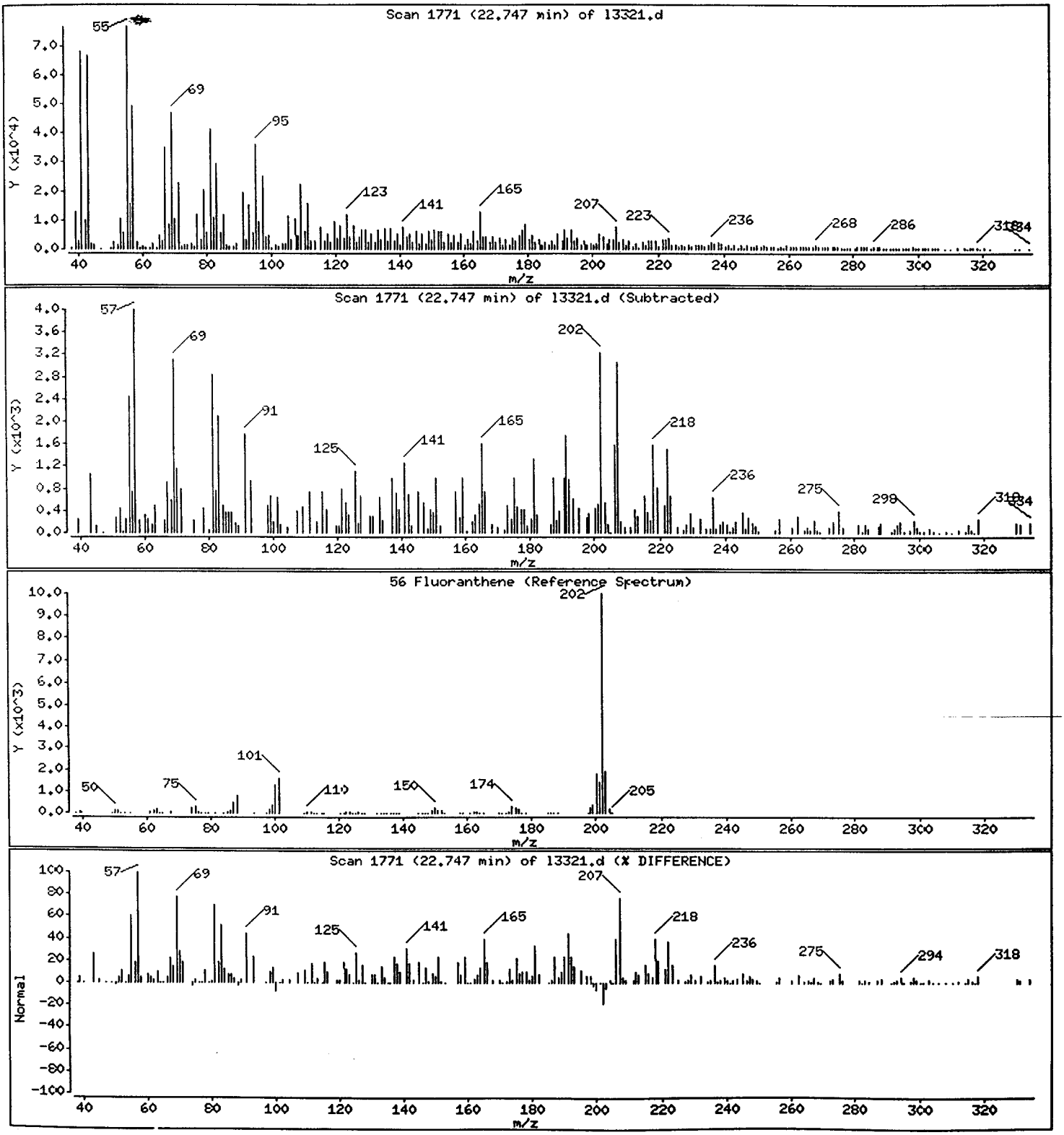
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

56 Fluoranthene

Concentration: 1500 ug/Kg



Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/13321.d

Date : 01-NOV-2000 23:04

Client ID: RC-4_4th_Flr

Instrument: BNAMS7.i

Sample Info: 237828;30;10;25;4.1

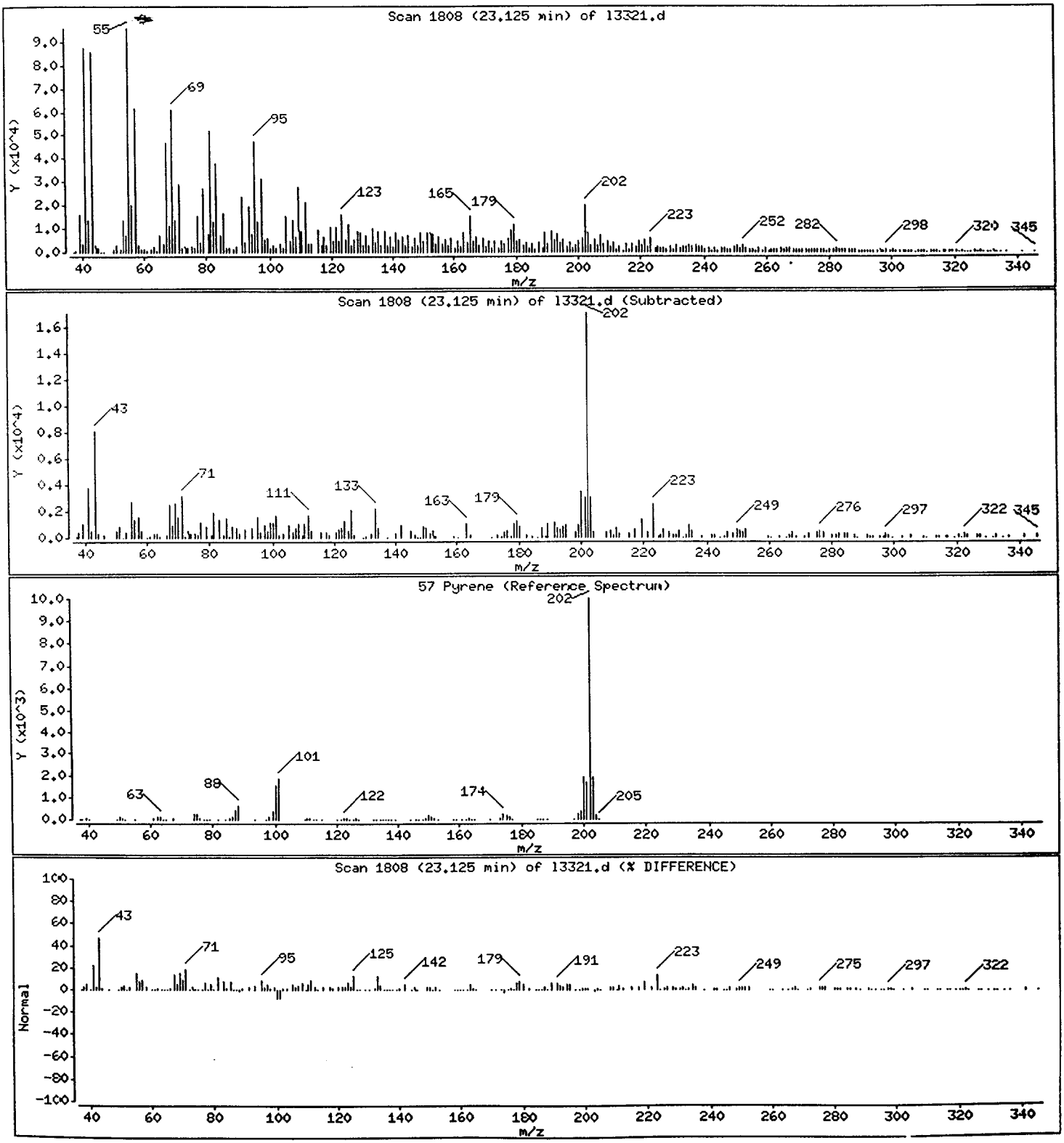
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

57 Pyrene

Concentration: 6600 ug/Kg



Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/13321.d

Date : 01-NOV-2000 23:04

Client ID: RC-4_4th_Flr

Instrument: BNAMS7.i

Sample Info: 237828;30;10;25;4.1

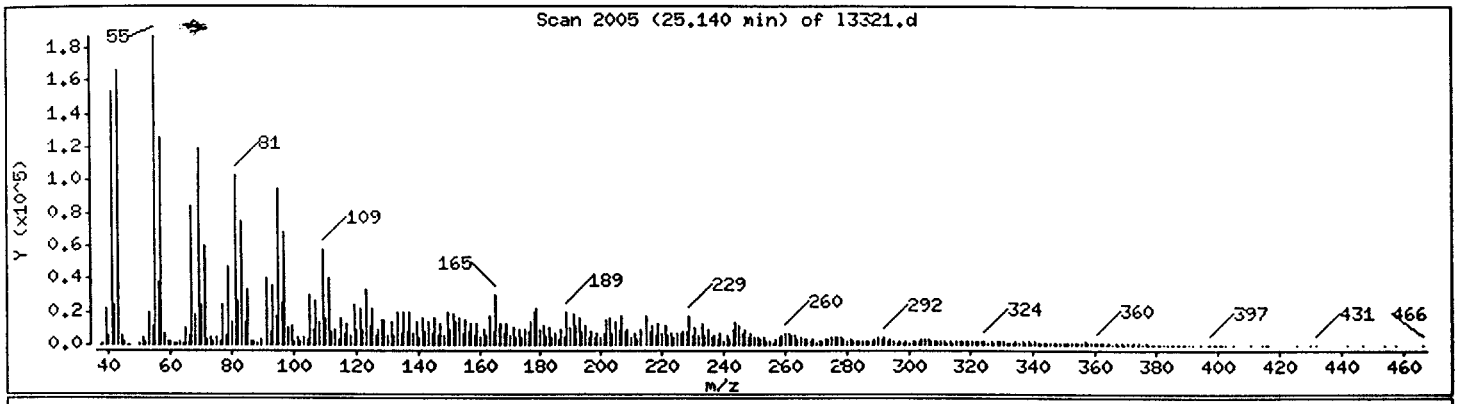
Operator: BNAMS 4

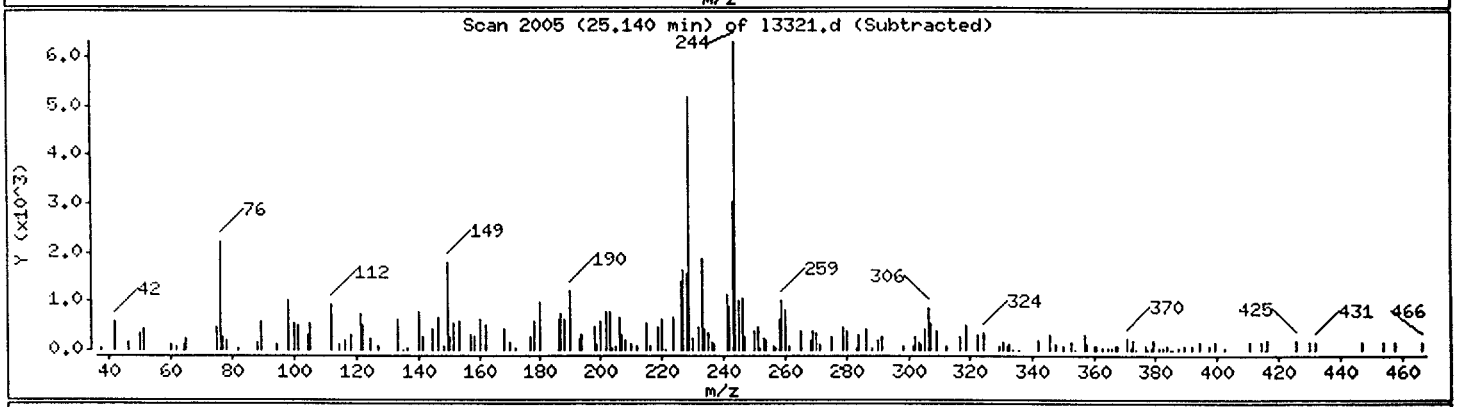
Column phase: DB-5

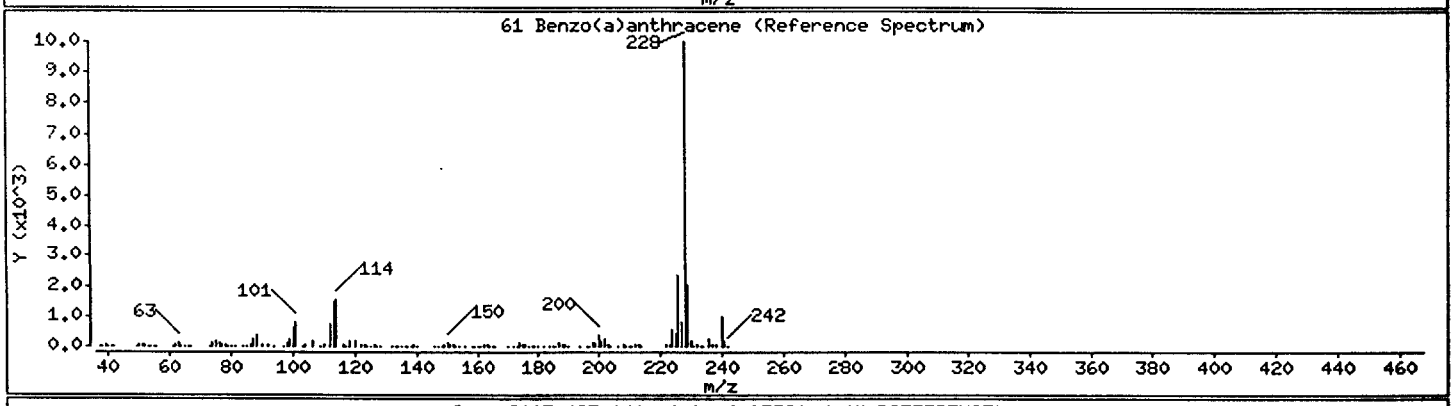
Column diameter: 0.25

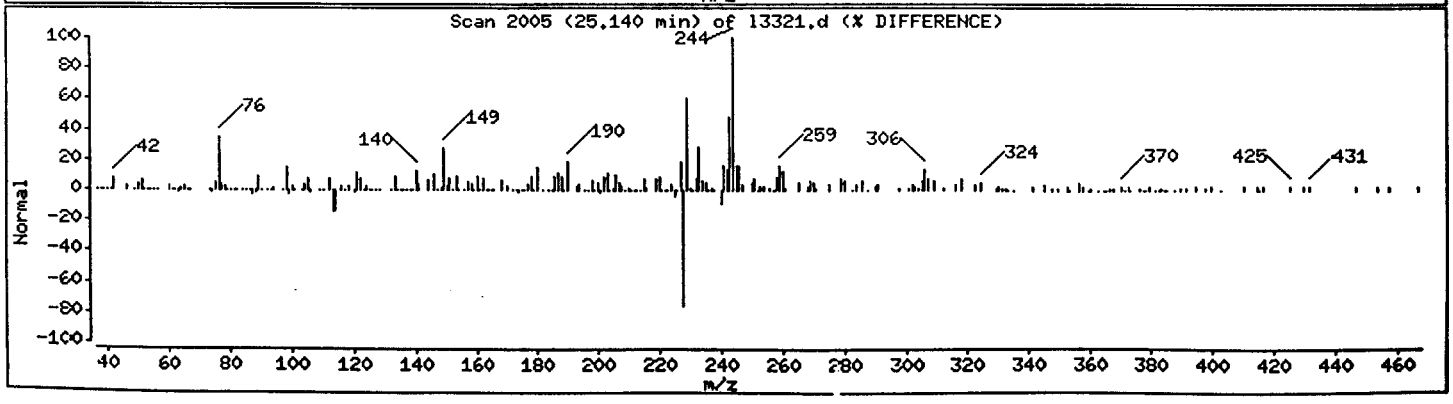
61 Benzo(a)anthracene

Concentration: 890 ug/Kg









Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/13321.d

Date : 01-NOV-2000 23:04

Client ID: RC-4_4th_Flr

Instrument: BNAMS7.i

Sample Info: 237828;30;10;25;4.1

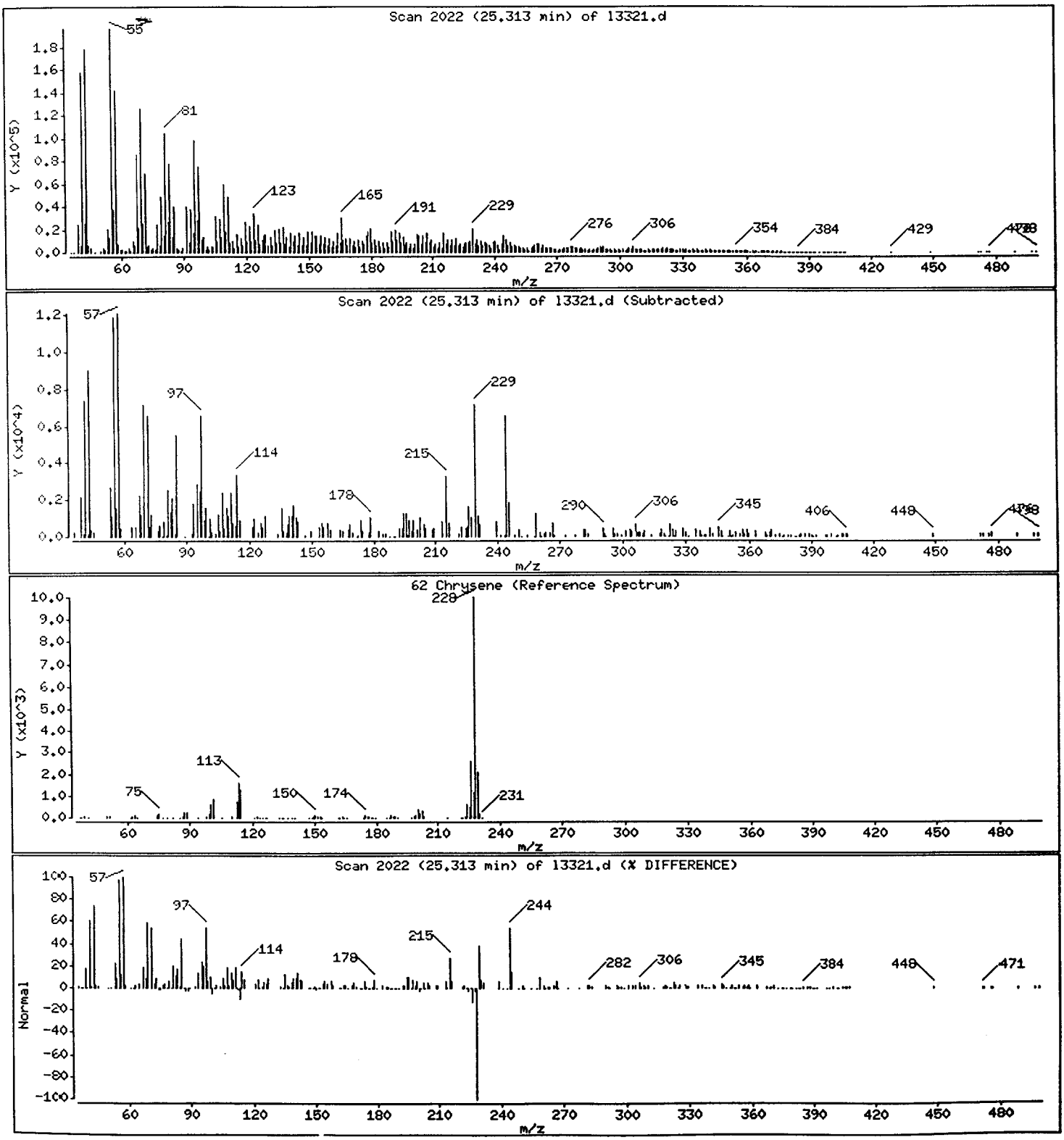
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

62 Chrysene

Concentration: 1400 ug/Kg



Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/13321.d

Date : 01-NOV-2000 23:04

Client ID: RC-4_4th_Flr

Instrument: BNAMS7.i

Sample Info: 237828;30;10;25;4.1

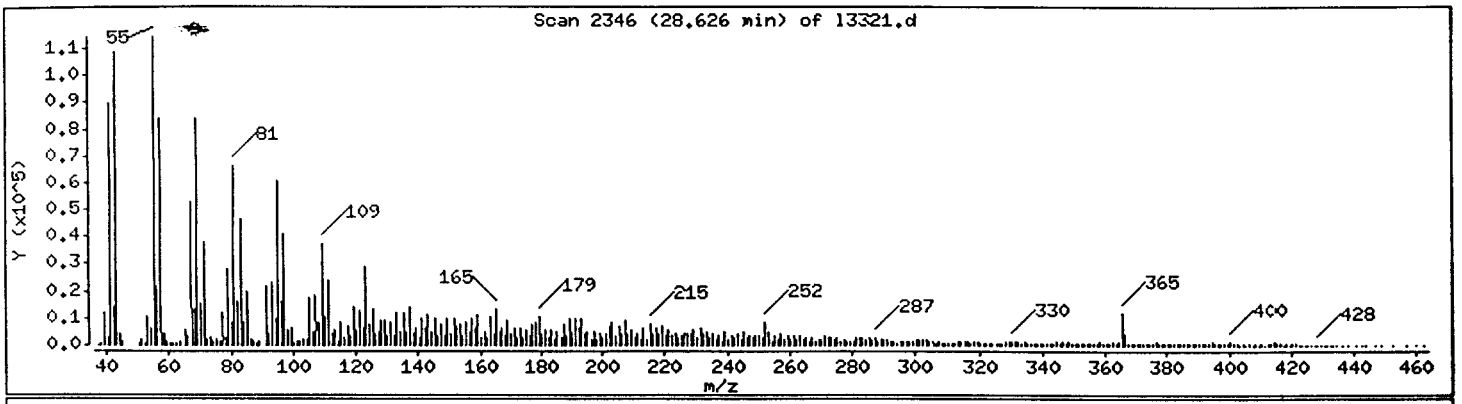
Operator: BNAMS 4

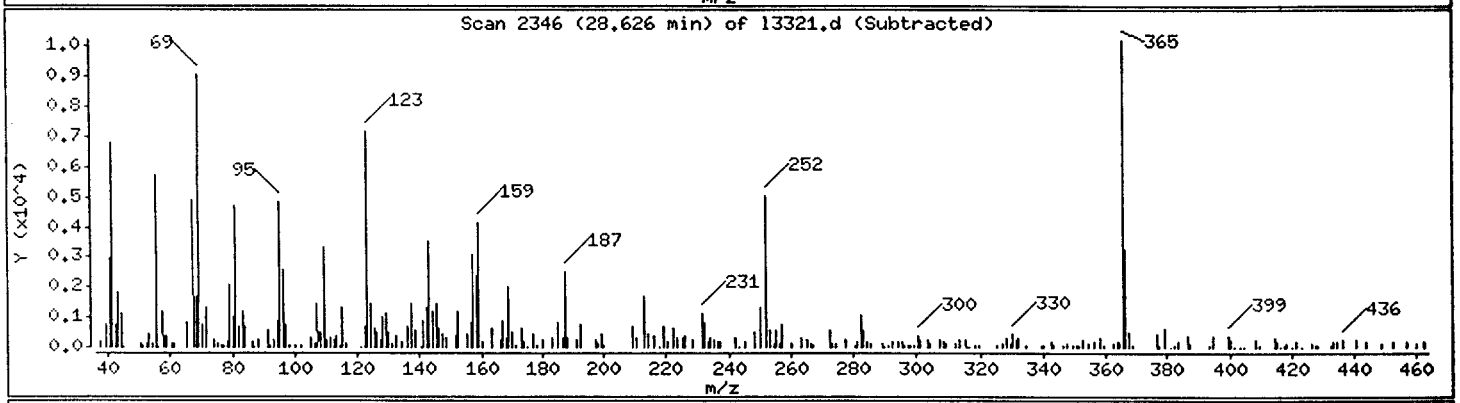
Column phase: DB-5

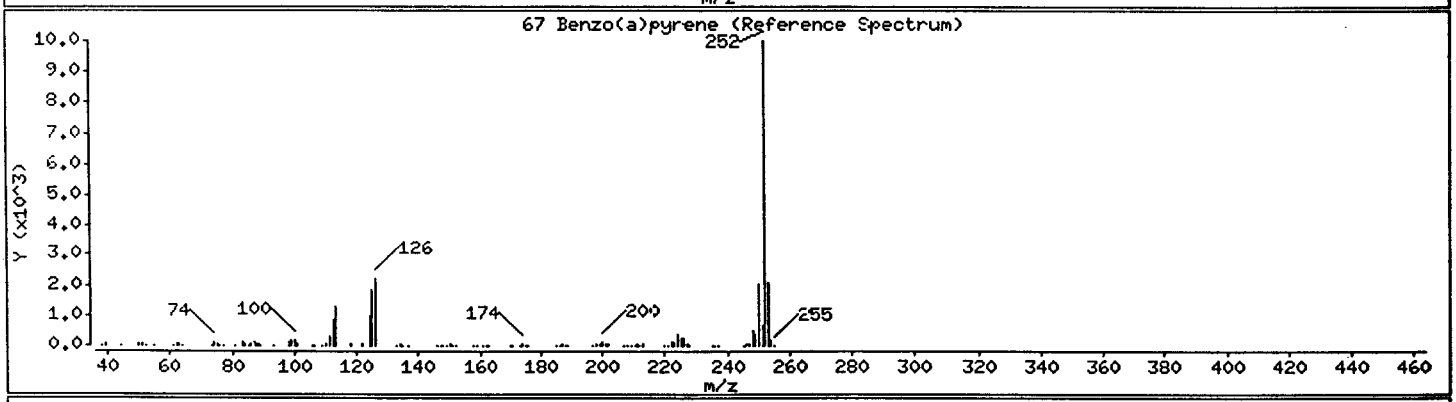
Column diameter: 0.25

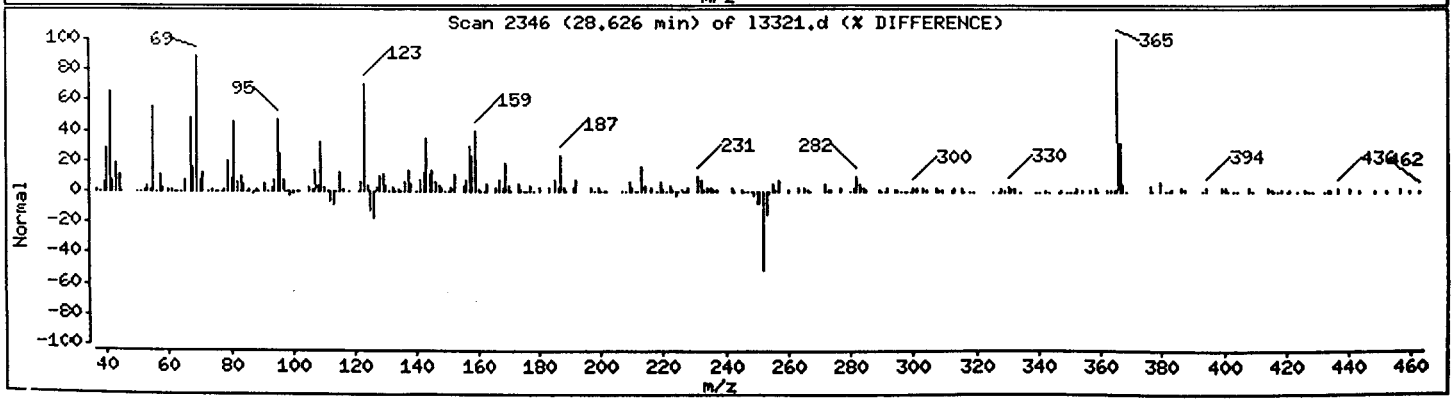
67 Benzo(a)pyrene

Concentration: 5000 ug/Kg









Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/13321.d

Date : 01-NOV-2000 23:04

Client ID: RC-4_4th_Flr

Instrument: BNAMS7.i

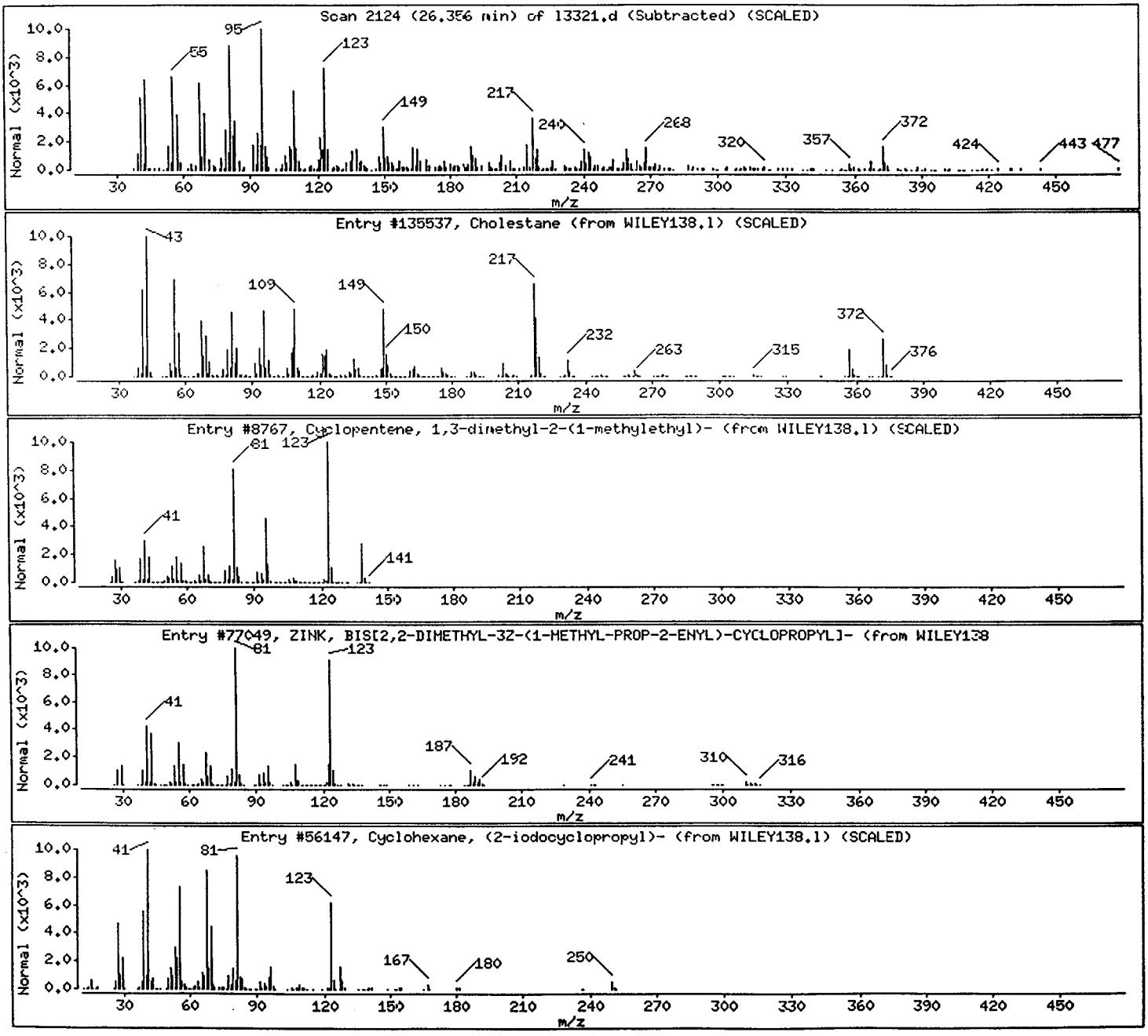
Sample Info: 237828;30;10;25;4.1

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cholestane	481-21-0	WILEY138.l	135537	45	C27H48	372
Cyclopentene, 1,3-dimethyl-2-(1-methylet	61142-32-3	WILEY138.l	8767	43	C10H18	138
ZINK, BIS[2,2-DIMETHYL-3Z-(1-METHYL-PROP	81069-88-7	WILEY138.l	77049	30	C18H30Zn	310
Cyclohexane, (2-iodocyclopropyl)-	55682-67-2	WILEY138.l	56147	27	C9H15I	250



Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/13321.d

Date : 01-NOV-2000 23:04

Client ID: RC-4_4th_Flr

Instrument: BNAMS7.i

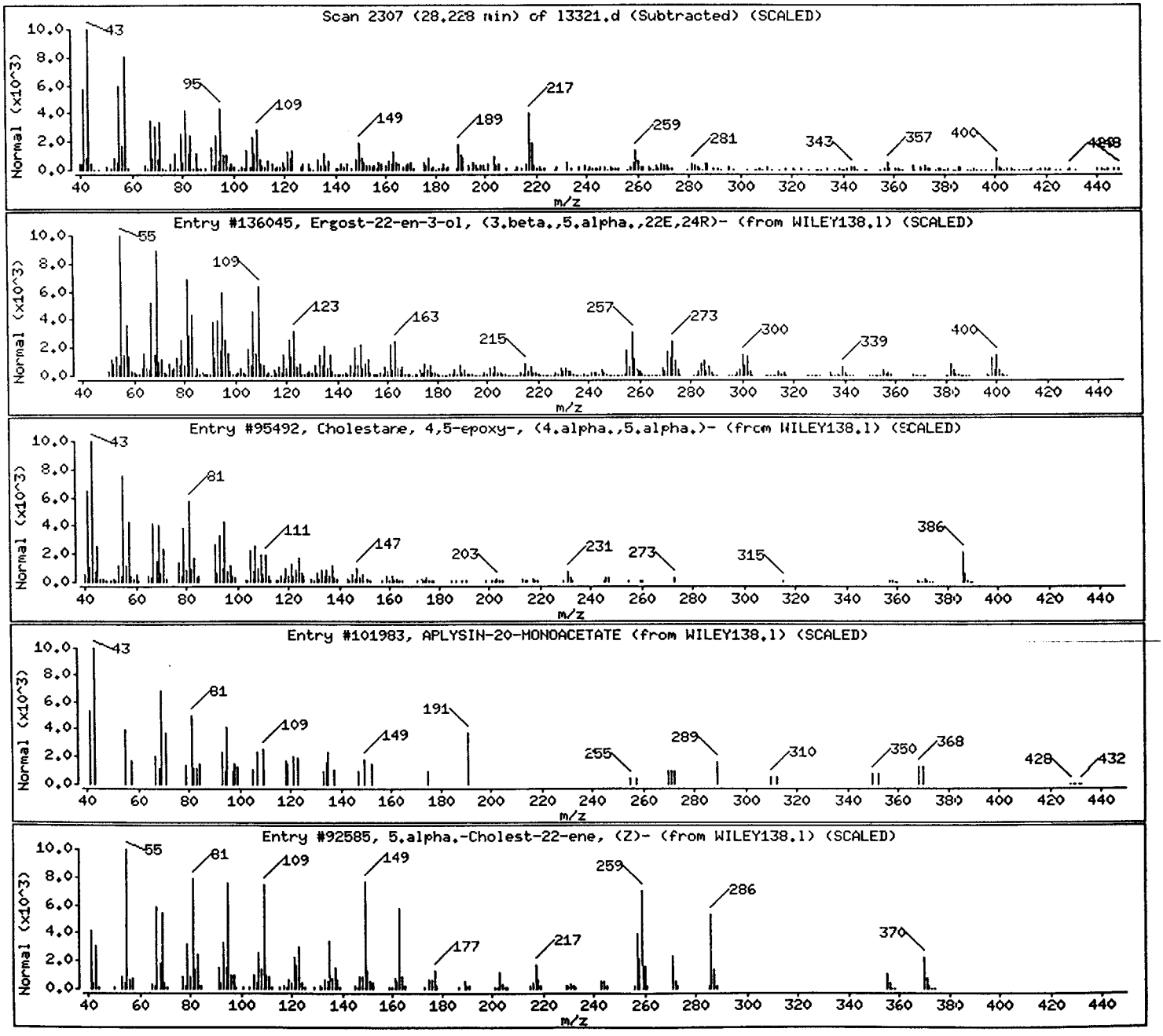
Sample Info: 237828;30;10;25;4.1

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Sterol						
Ergost-22-en-3-ol, (3.beta.,5.alpha.,22E	36422-25-0	WILEY138.1	136045	51	C28H480	400
Cholestane, 4,5-epoxy-, (4.alpha.,5.alph	6079-19-2	WILEY138.1	95492	44	C27H460	386
APLYSIN-20-MONOACETATE	56009-17-7	WILEY138.1	101983	32	C22H37BrO3	428
5.alpha.-Cholest-22-ene, (Z)-	15076-93-4	WILEY138.1	92585	30	C27H46	370



Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/13321.d

Date : 01-NOV-2000 23:04

Client ID: RC-4_4th_Flr

Instrument: BNAMS7.i

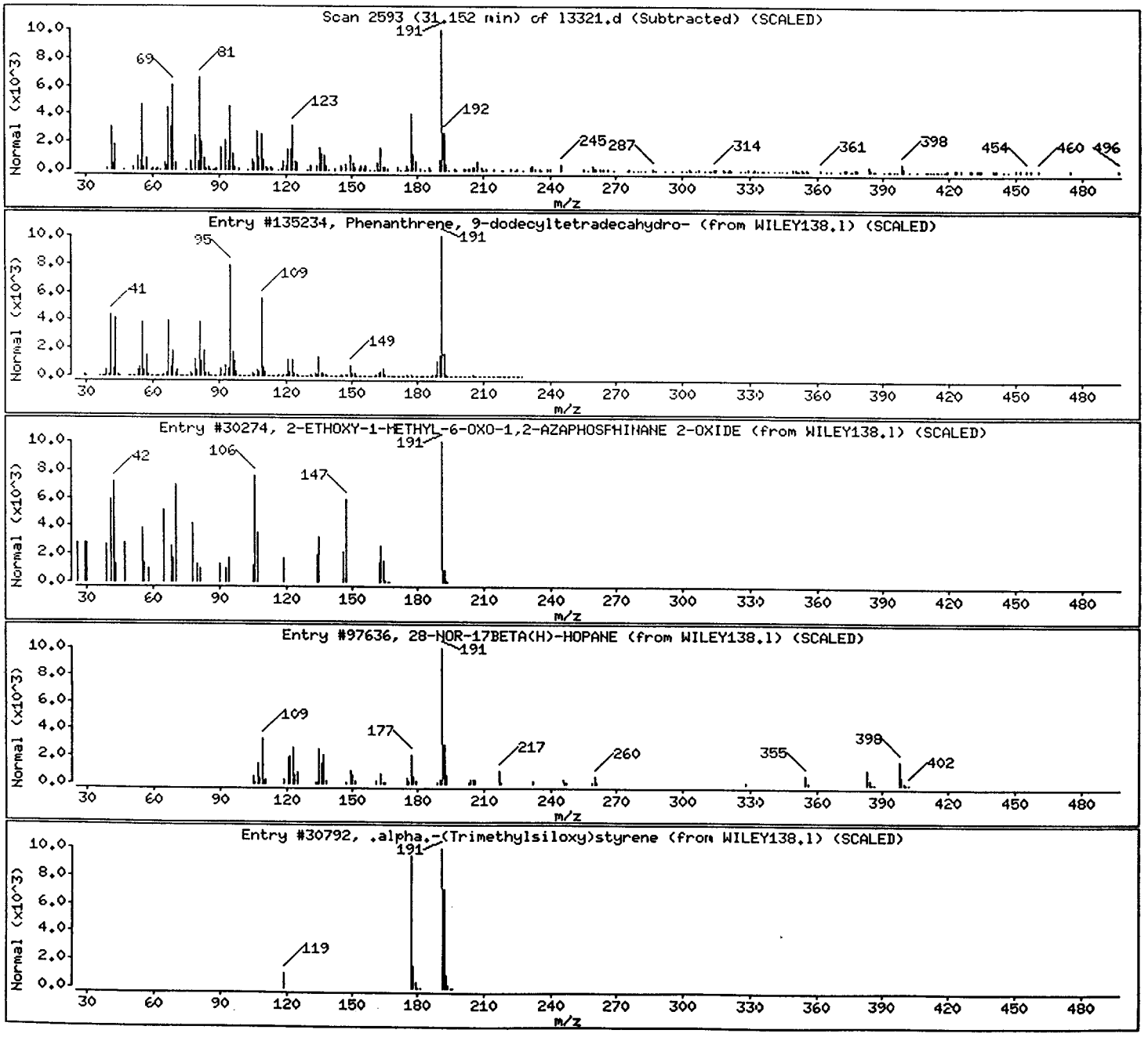
Sample Info: 237828;30;10;25;4.1

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Phenanthrene, 9-dodecyltetradecahydro-	55334-01-5	WILEY138.l	135234	40	C26H48	360
2-ETHOXY-1-METHYL-6-OXO-1,2-AZAPHOSPHINA	93989-00-5	WILEY138.l	30274	38	C7H14NO3P	191
28-NOR-17BETA(H)-HOPANE	36728-72-0	WILEY138.l	97636	38	C29H50	398
.alpha.-(Trimethylsiloxy)styrene	13735-81-4	WILEY138.l	30792	35	C11H16OSi	192



Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/13321.d

Date : 01-NOV-2000 23:04

Client ID: RC-4_4th_Flr

Instrument: BNAMS7.i

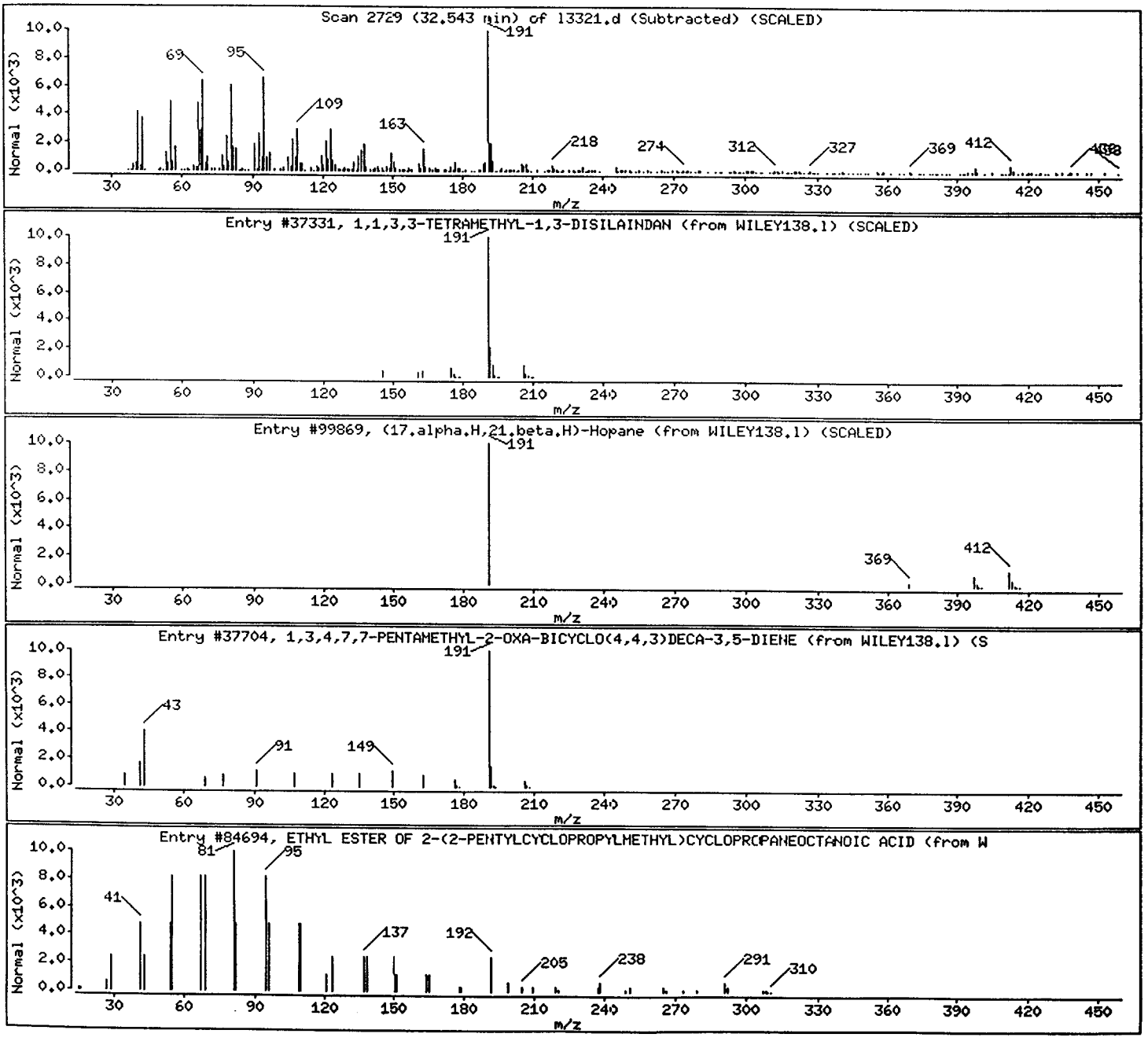
Sample Info: 237828;30;10;25;4.1

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,1,3,3-TETRAMETHYL-1,3-DISILAINDAN	54113-93-8	WILEY138.1	37331	78	C11H18Si2	206
(17.alpha.H,21.beta.H)-Hopane	0-00-0	WILEY138.1	99869	64	C30H52	412
1,3,4,7,7-PENTAMETHYL-2-OXA-BICYCLO(4,4,	0-00-0	WILEY138.1	37704	41	C14H22O	206
ETHYL ESTER OF 2-(2-PENTYLCYCLOPROPYLMET	0-00-0	WILEY138.1	84694	38	C22H40O2	336



Client ID: **ES-1_ElShaft_4th**
Site: Rexam DSI

Lab Sample No: 237829
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3258.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 40

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
N-Nitrosodimethylamine	ND	560
bis(2-Chloroethyl)ether	ND	56
1,3-Dichlorobenzene	ND	560
1,4-Dichlorobenzene	ND	560
1,2-Dichlorobenzene	ND	560
bis(2-chloroisopropyl)ether	ND	560
N-Nitroso-di-n-propylamine	ND	56
Hexachloroethane	ND	56
Nitrobenzene	ND	56
Isophorone	ND	560
bis(2-Chloroethoxy)methane	ND	560
1,2,4-Trichlorobenzene	ND	56
Naphthalene	20 J	560
Hexachlorobutadiene	ND	110
Hexachlorocyclopentadiene	ND	560
2-Chloronaphthalene	ND	560
Dimethylphthalate	ND	560
Acenaphthylene	13 J	560
2,6-Dinitrotoluene	ND	110
Acenaphthene	17 J	560
2,4-Dinitrotoluene	ND	110
Diethylphthalate	ND	560
4-Chlorophenyl-phenylether	ND	560
Fluorene	28 J	560
N-Nitrosodiphenylamine	64 J	560
4-Bromophenyl-phenylether	ND	560
Hexachlorobenzene	ND	56
Phenanthrene	240 J	560
Anthracene	60 J	560
Di-n-butylphthalate	200 J	560
Fluoranthene	470 J	560
Pyrene	420 J	560
Benzidine	ND	2200
Butylbenzylphthalate	ND	560

Client ID: **ES-1_ElShaft_4th**
Site: Rexam DSI

Lab Sample No: **237829**
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3258.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 40

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)		Quantitation Limit Units: ug/kg
3,3'-Dichlorobenzidine	ND		1100
Benzo(a)anthracene	210		56
Chrysene	260	J	560
bis(2-Ethylhexyl)phthalate	3700		560
Di-n-octylphthalate	420	J	560
Benzo(b)fluoranthene	490		56
Benzo(k)fluoranthene	90		56
Benzo(a)pyrene	230		56
Indeno(1,2,3-cd)pyrene	55	J	56
Dibenz(a,h)anthracene	ND		56
Benzo(g,h,i)perylene	74	J	560

Client ID: **ES-1_ElShaft_4th**
Site: Rexam DSI

Lab Sample No: **237829**
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3258.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 40.4

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	Unknown Alkane	24.38	1800	
2.	Unknown Alkane	24.97	4900	
3.	Unknown Alkane	25.62	2200	
4.	Unknown Alkane	26.38	1800	
5.	Unknown	26.50	3600	
6.	Unknown Alkane	26.65	2100	
7.	Unknown Alkane	27.27	2600	
8.	Unknown	29.11	3700	
9.	Unknown	29.67	3100	
10.	Unknown	30.87	1700	
11.	Unknown	31.50	7800	
12.	Unknown	32.32	2000	
13.	Unknown	32.93	9900	
14.	Unknown	34.85	10000	
15.	Unknown	35.10	3200	
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION	60400

Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/l3258.d
Report Date: 31-Oct-2000 09:34

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/l3258.d
Lab Smp Id: 237829 Client Smp ID: ES-1_ElShaft_4th
Inj Date : 30-OCT-2000 22:41
Operator : BNAMS 4 Inst ID: BNAMS7.i
Smp Info : 237829;30;2;1;40.4
Misc Info : F104;PPBN+15;6924;114
Comment :
Method : /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/8270C1.m
Meth Date : 30-Oct-2000 15:17 acierno Quant Type: ISTD
Cal Date : 27-OCT-2000 12:29 Cal File: l3224.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPBNb.sub
Target Version: 3.50
Processing Host: hpd1

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	2.00000	Volume of final extract (ml)
Ws	30.00000	Weight of sample extracted (g)
M	40.40000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
* 79 1,4-Dichlorobenzene-d4	152	13.180	13.186	(1.000)	391728	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	14.130	14.147	(0.920)	624542	37.9893	4200
* 80 Naphthalene-d8	136	15.357	15.374	(1.000)	1589354	40.0000	
31 Naphthalene	128	15.388	15.405	(1.002)	7215	0.18234	20(a)
$ 77 2-Fluorobiphenyl (SUR)	172	17.157	17.164	(0.937)	1101258	45.6543	5100
39 Acenaphthylene	152	18.057	18.074	(0.987)	4336	0.11386	13(a)
* 82 Acenaphthene-d10	164	18.302	18.309	(1.000)	887252	40.0000	
42 Acenaphthene	153	18.343	18.370	(1.002)	3703	0.15504	17(a)
47 Fluorene	166	19.202	19.229	(1.049)	6730	0.25188	28(a)
49 N-Nitrosodiphenylamine	169	19.376	19.403	(0.932)	10547	0.56974	64(a)
* 83 Phenanthrene-d10	188	20.787	20.794	(1.000)	1567129	40.0000	
52 Phenanthrene	178	20.818	20.834	(1.001)	83188	2.16872	240(a)
53 Anthracene	178	20.899	20.926	(1.005)	20944	0.54108	60(a)

Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d
Report Date: 31-Oct-2000 09:34

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
	55 Di-n-butylphthalate	149	21.697	21.693	(1.044)	112095	1.83659	200(a)
	56 Fluoranthene	202	22.842	22.818	(1.099)	170843	4.17841	470(a)
	57 Pyrene	202	23.221	23.196	(0.917)	154130	3.77826	420(a)
$	78 Terphenyl-d14 (SUR)	244	23.435	23.411	(0.926)	1222018	39.0417	4400
	63 bis(2-Ethylhexyl)phthalate	149	25.225	25.180	(0.996)	1296698	32.9826	3700
	61 Benzo(a)anthracene	228	25.296	25.252	(0.999)	74161	1.84793	210
*	81 Chrysene-d12	240	25.317	25.282	(1.000)	1540881	40.0000	
	62 Chrysene	228	25.358	25.333	(1.002)	86356	2.31779	260(aH)
	64 Di-n-octylphthalate	149	26.718	26.632	(0.918)	158614	3.71435	420(aH)
	65 Benzo(b)fluoranthene	252	27.955	27.839	(0.960)	90649	4.39016	490
	66 Benzo(k)fluoranthene	252	28.037	27.931	(0.963)	19821	0.80518	90(M)
	67 Benzo(a)pyrene	252	28.844	28.882	(0.991)	41415	2.02567	230(M)
*	84 Perylene-d12	264	29.243	29.066	(1.000)	793275	40.0000	(H)
	68 Indeno(1,2,3-cd)pyrene	276	33.855	33.595	(1.158)	9660	0.49044	55(aM)
	70 Benzo(g,h,i)perylene	276	35.266	35.047	(1.206)	13219	0.65985	74(aM)

QC Flag Legend

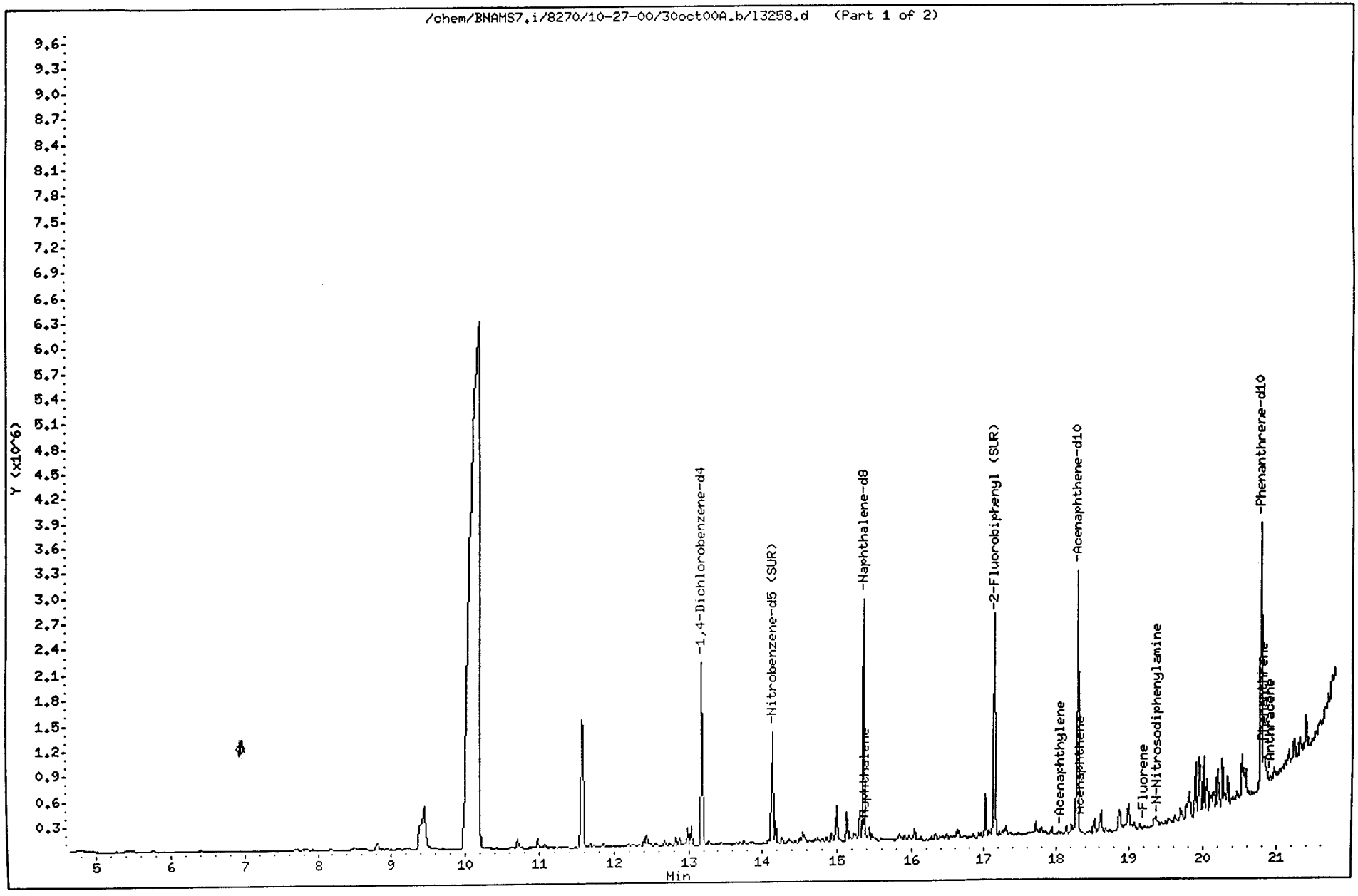
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d
Date : 30-OCT-2000 22:41
Client ID: ES-1_ElShaft_4th
Sample Info: 237829;30;2;1;40.4

Instrument: BNAMS7.i

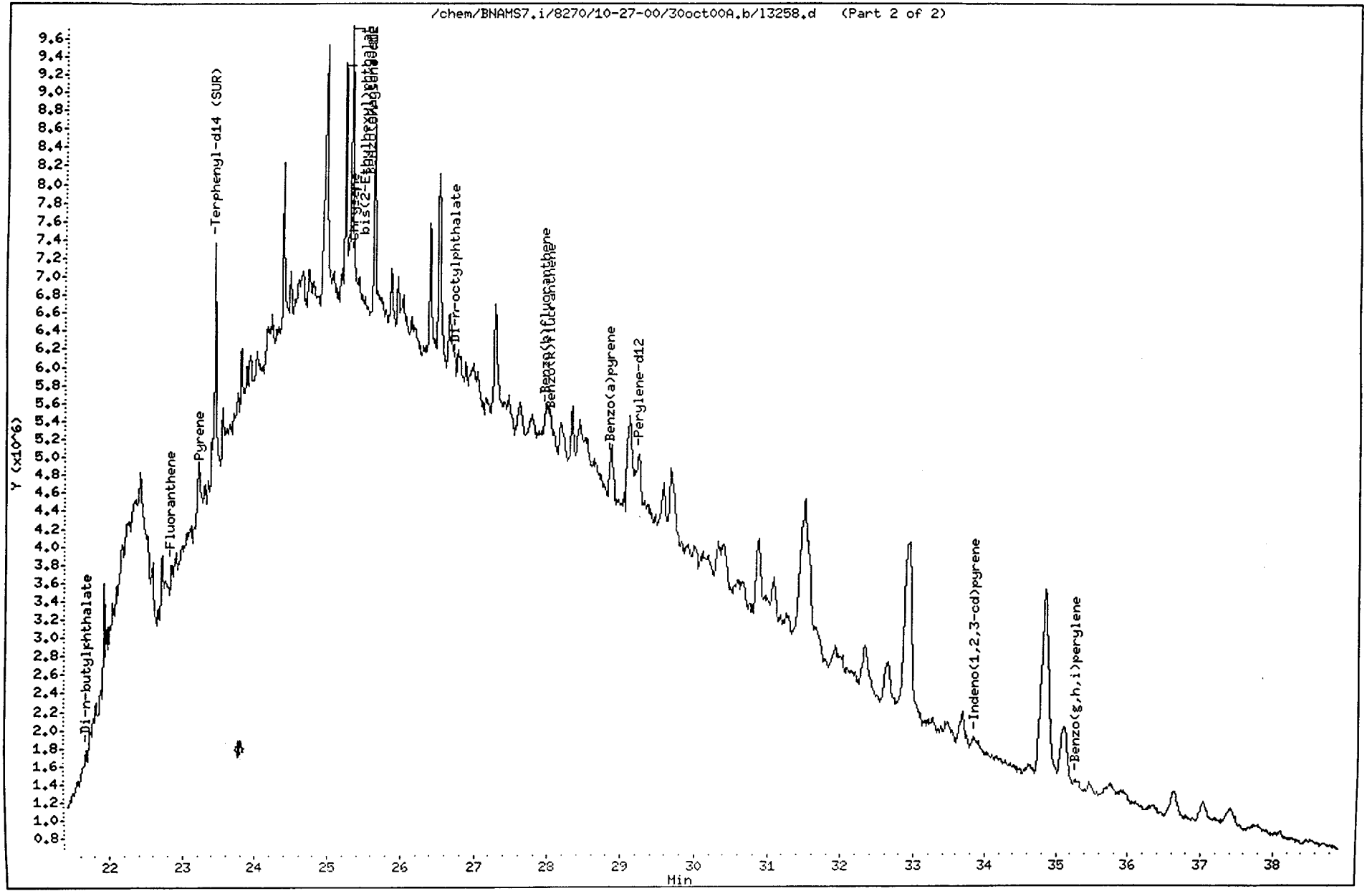
Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d
Date : 30-OCT-2000 22:41
Client ID: ES-1_ElShaft_4th
Sample Info: 237829;30;2;1;40.4

Instrument: BNAMS7.i
Operator: BNAMS 4
Column phase: DB-5
Column diameter: 0.25



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Instrument: BNAMS7.i

Sample Info: 237829;30;2;1;40.4

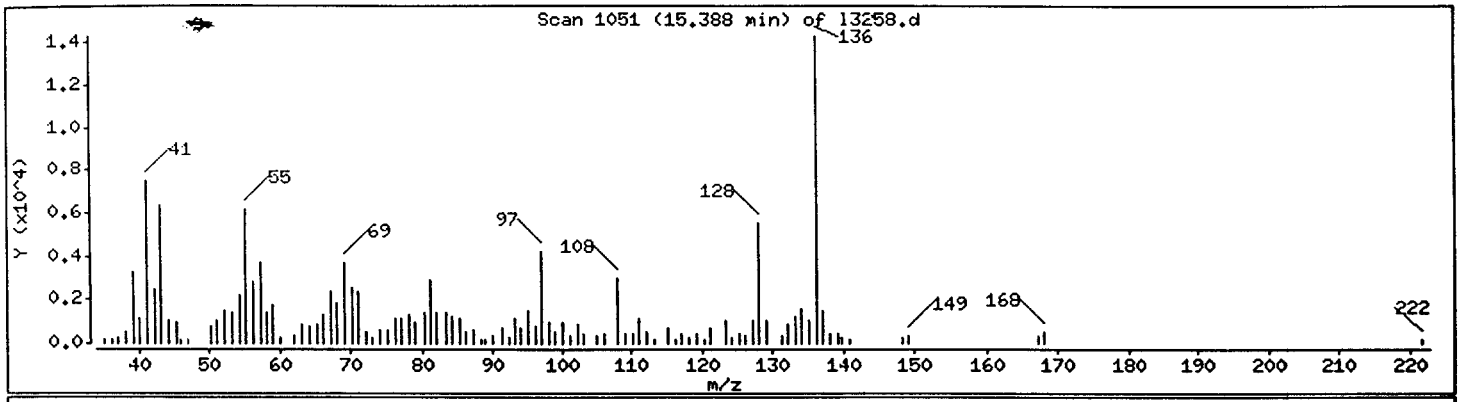
Operator: BNAMS 4

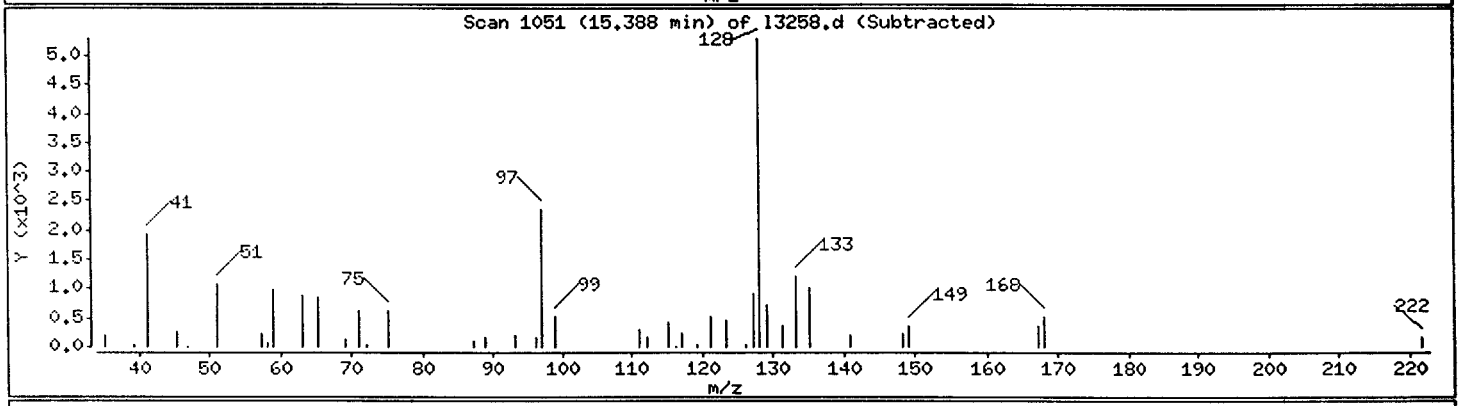
Column phase: DB-5

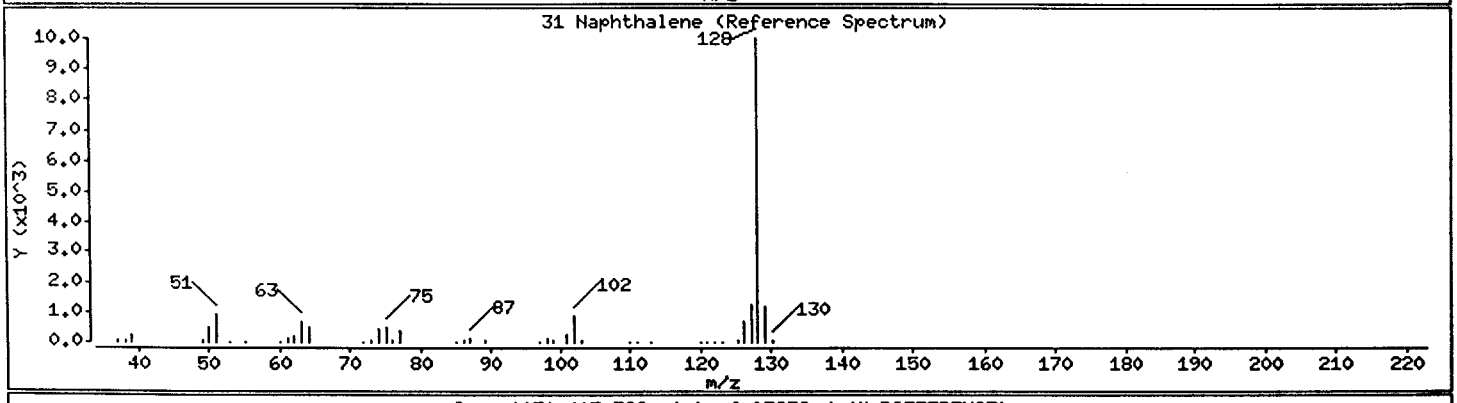
Column diameter: 0.25

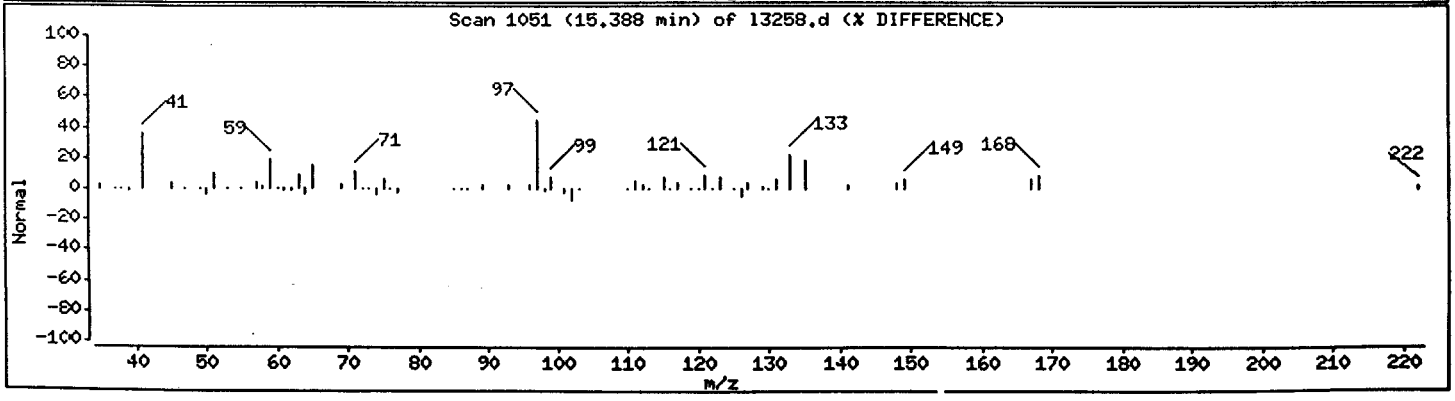
31 Naphthalene

Concentration: 20 ug/Kg









Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Instrument: BNAMS7.i

Sample Info: 237829;30;2;1;40.4

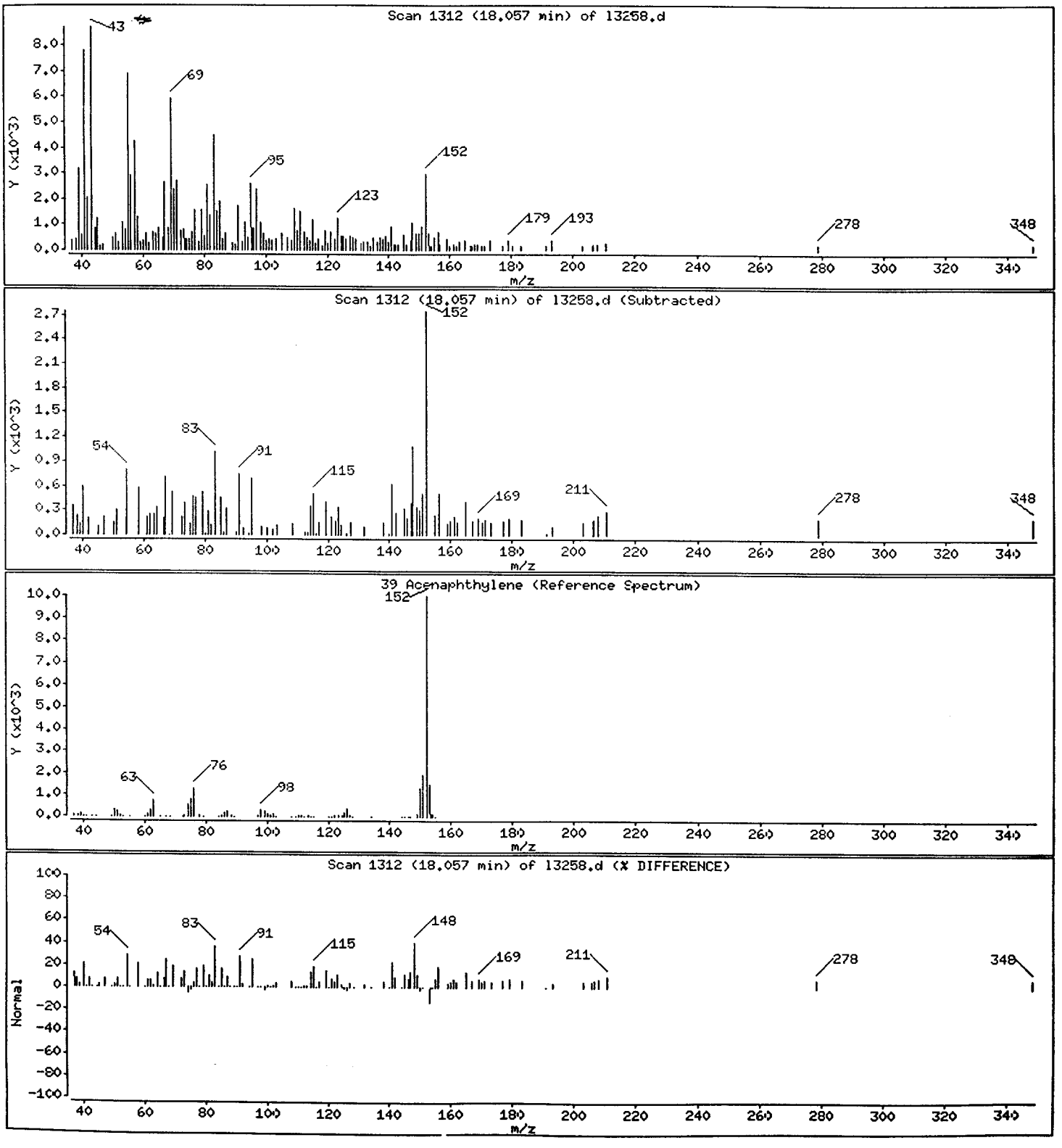
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

39 Acenaphthylene

Concentration: 13 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Instrument: BNAMS7.i

Sample Info: 237829;30;2;1;40.4

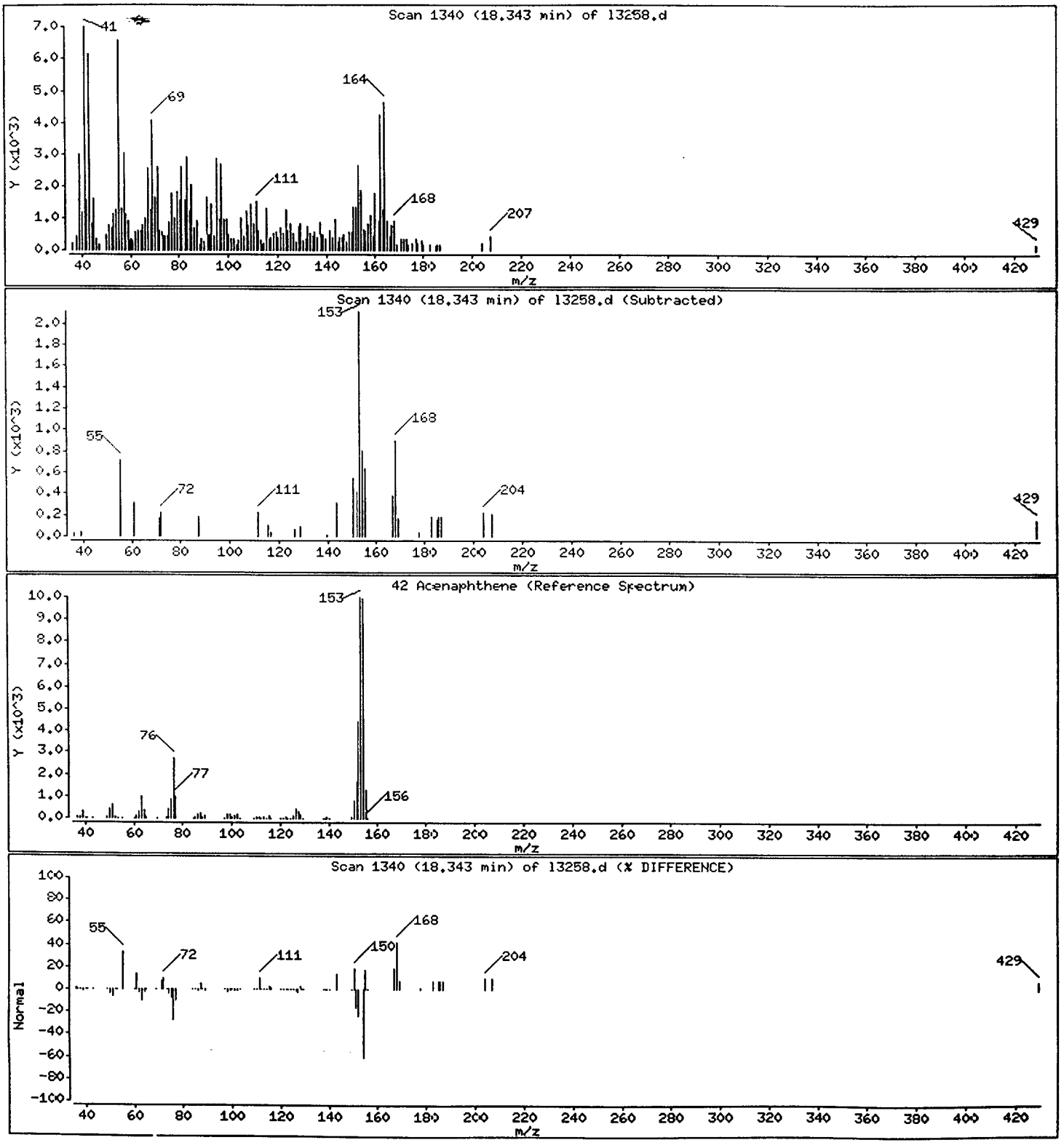
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

42 Acenaphthene

Concentration: 17 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Instrument: BNAMS7.i

Sample Info: 237829;30;2;1;40,4

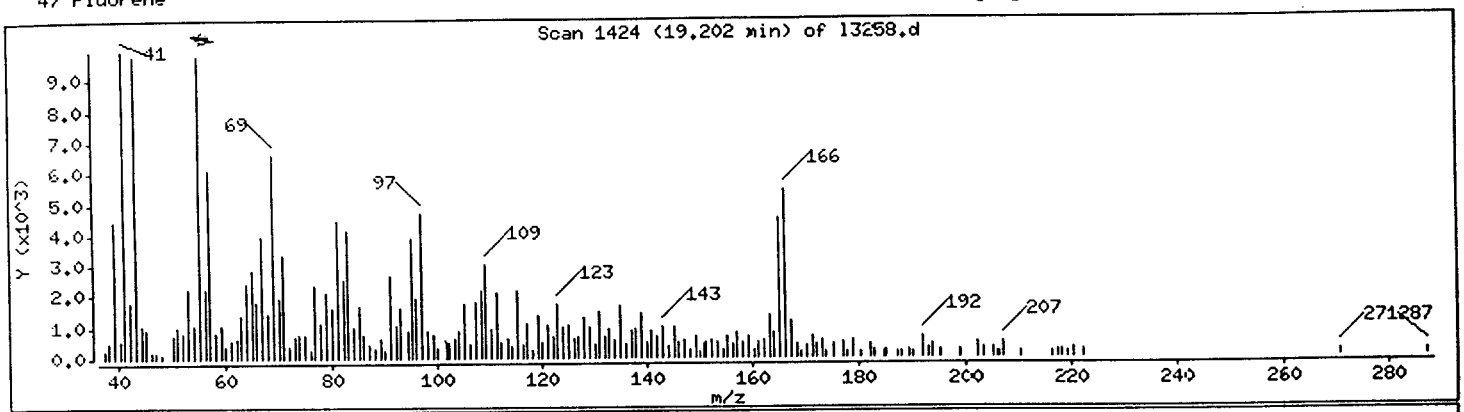
Operator: BNAMS 4

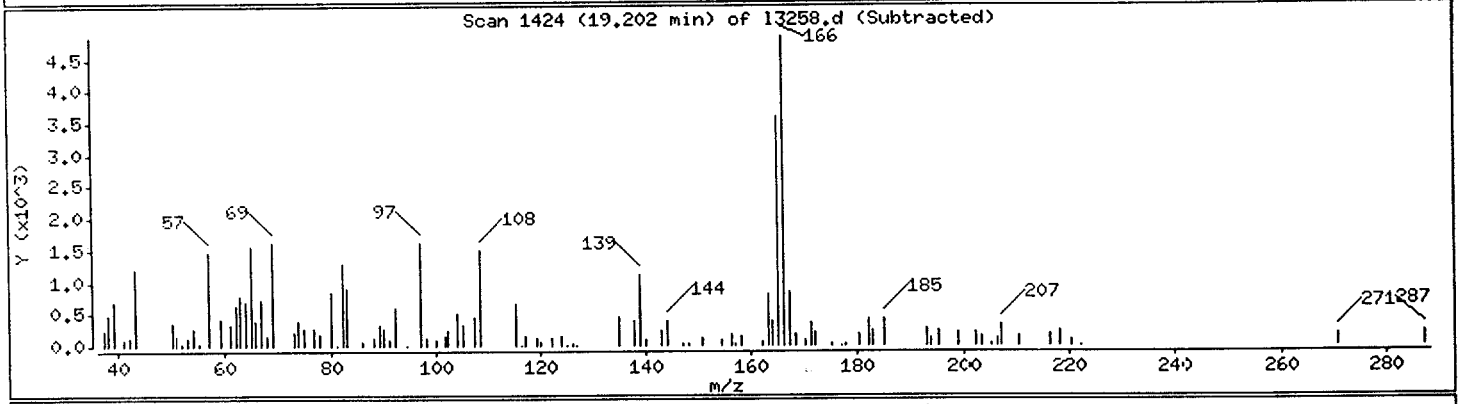
Column phase: DB-5

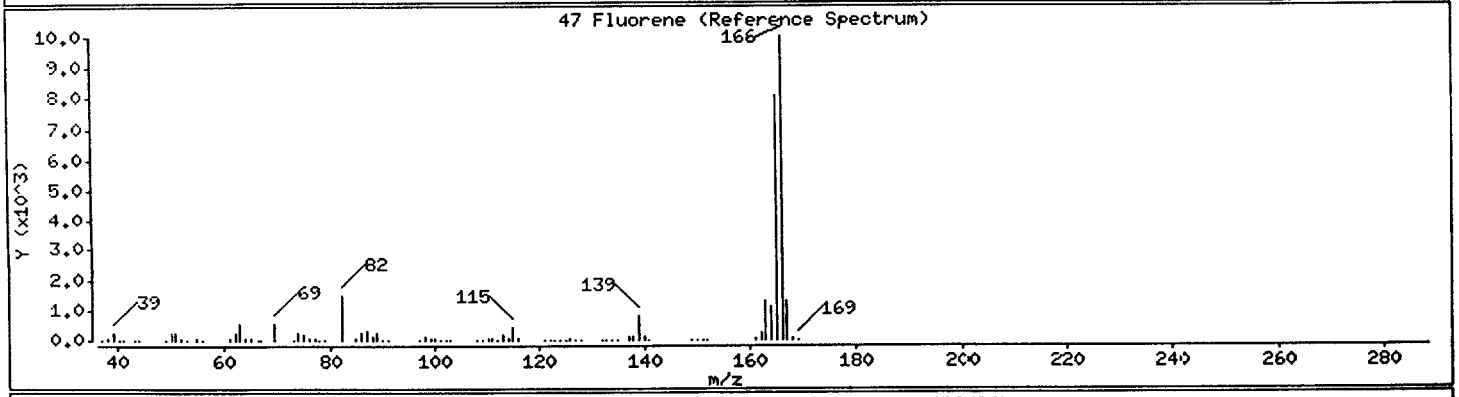
Column diameter: 0.25

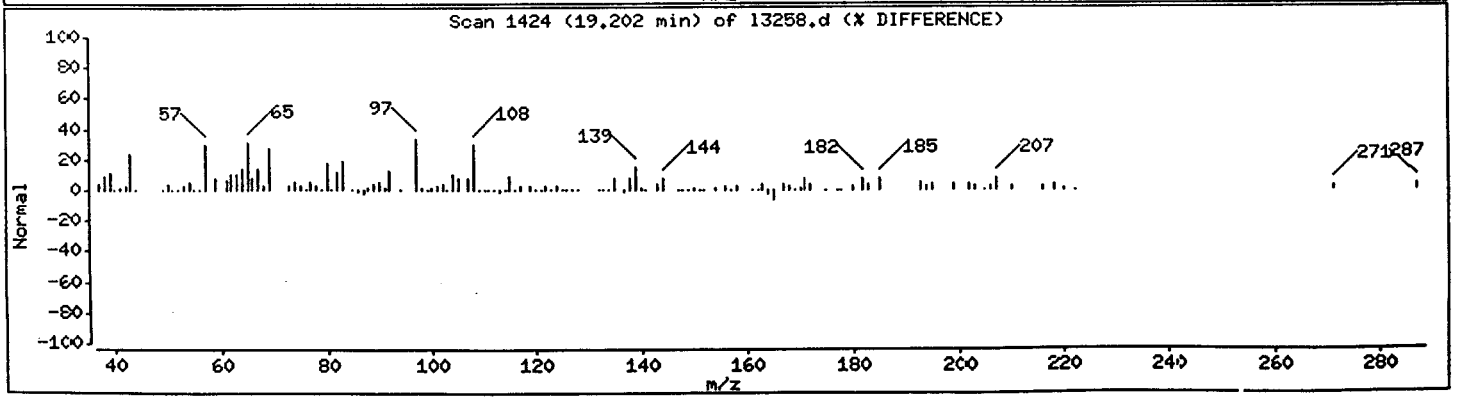
47 Fluorene

Concentration: 28 ug/Kg









Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Instrument: BNAMS7.i

Sample Info: 237829;30;2;1;40.4

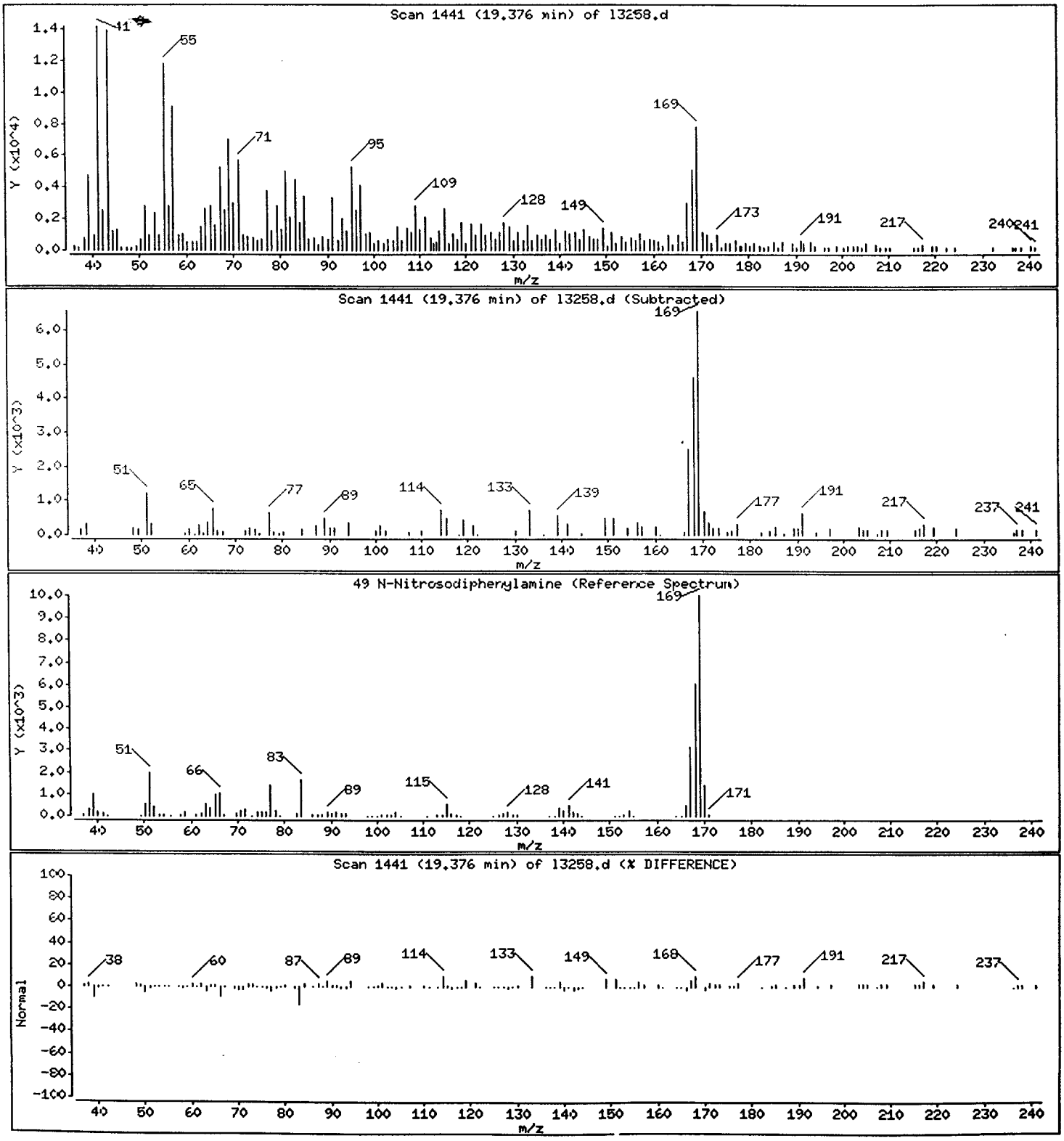
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

49 N-Nitrosodiphenylamine

Concentration: 64 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Instrument: BNAMS7.i

Sample Info: 237829;30;2;1;40.4

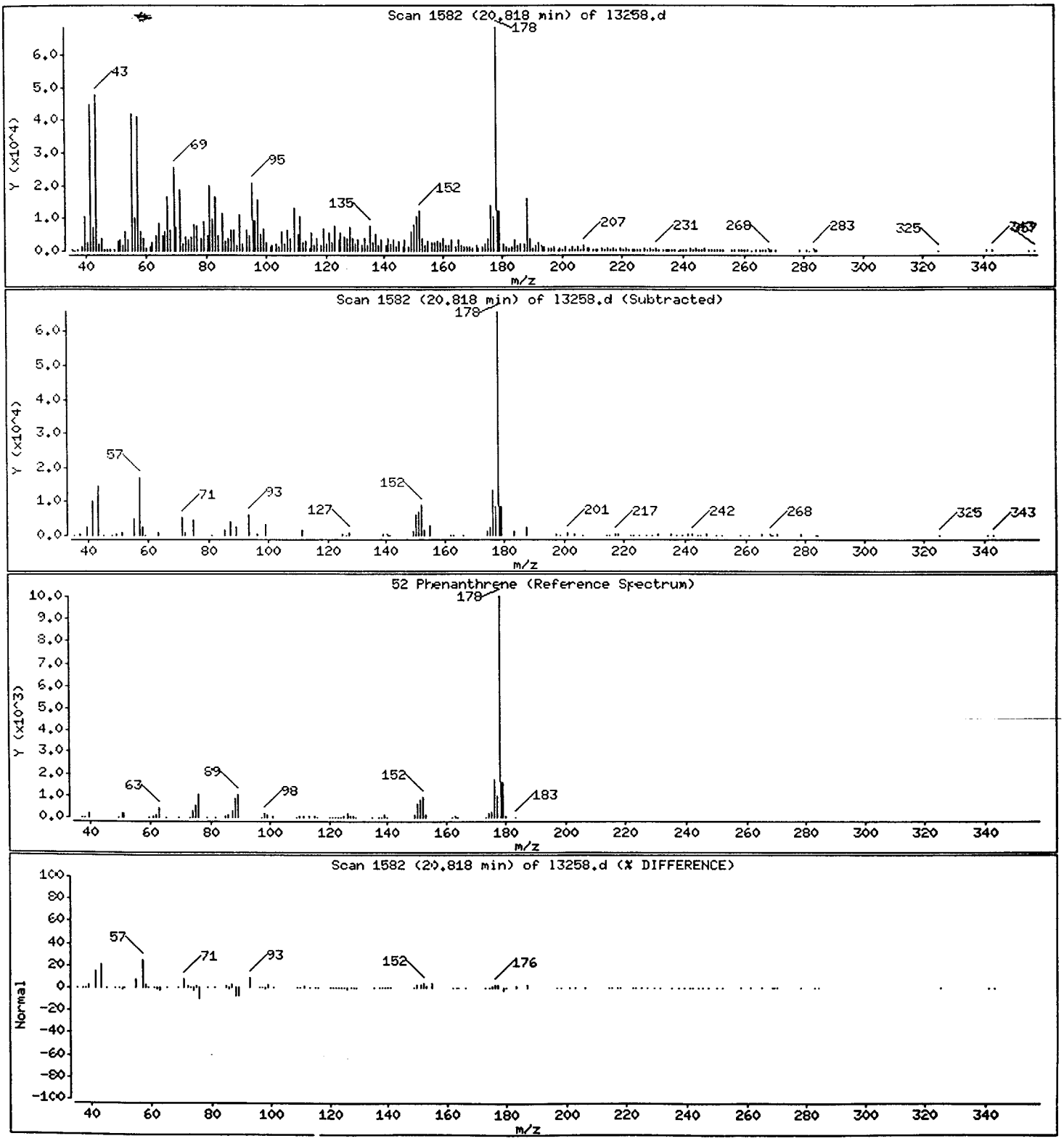
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

52 Phenanthrene

Concentration: 240 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Instrument: BNAMS7.i

Sample Info: 237829;30;2;1;40.4

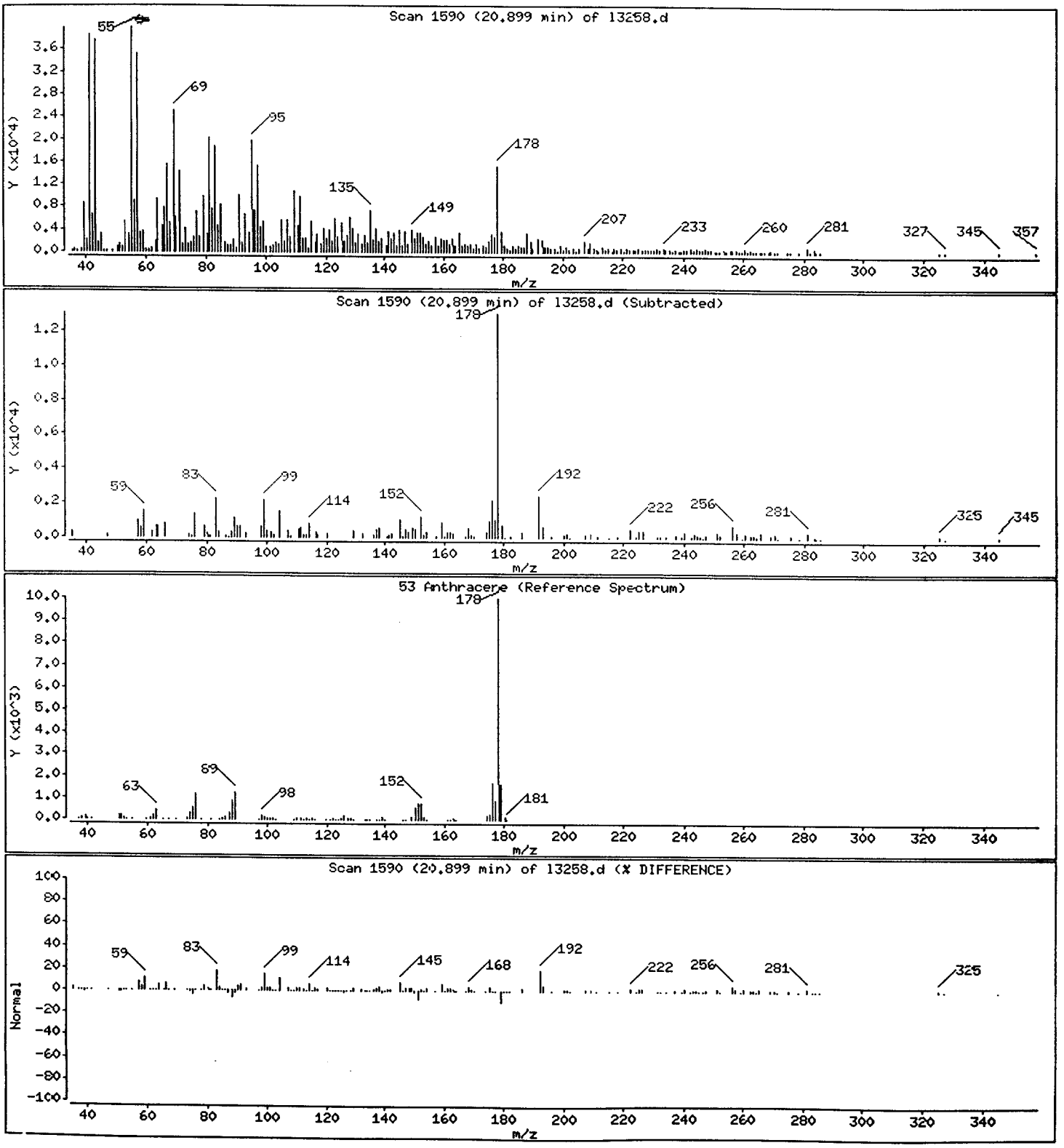
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

53 Anthracene

Concentration: 60 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Instrument: BNAMS7.i

Sample Info: 237829;30;2;1;40.4

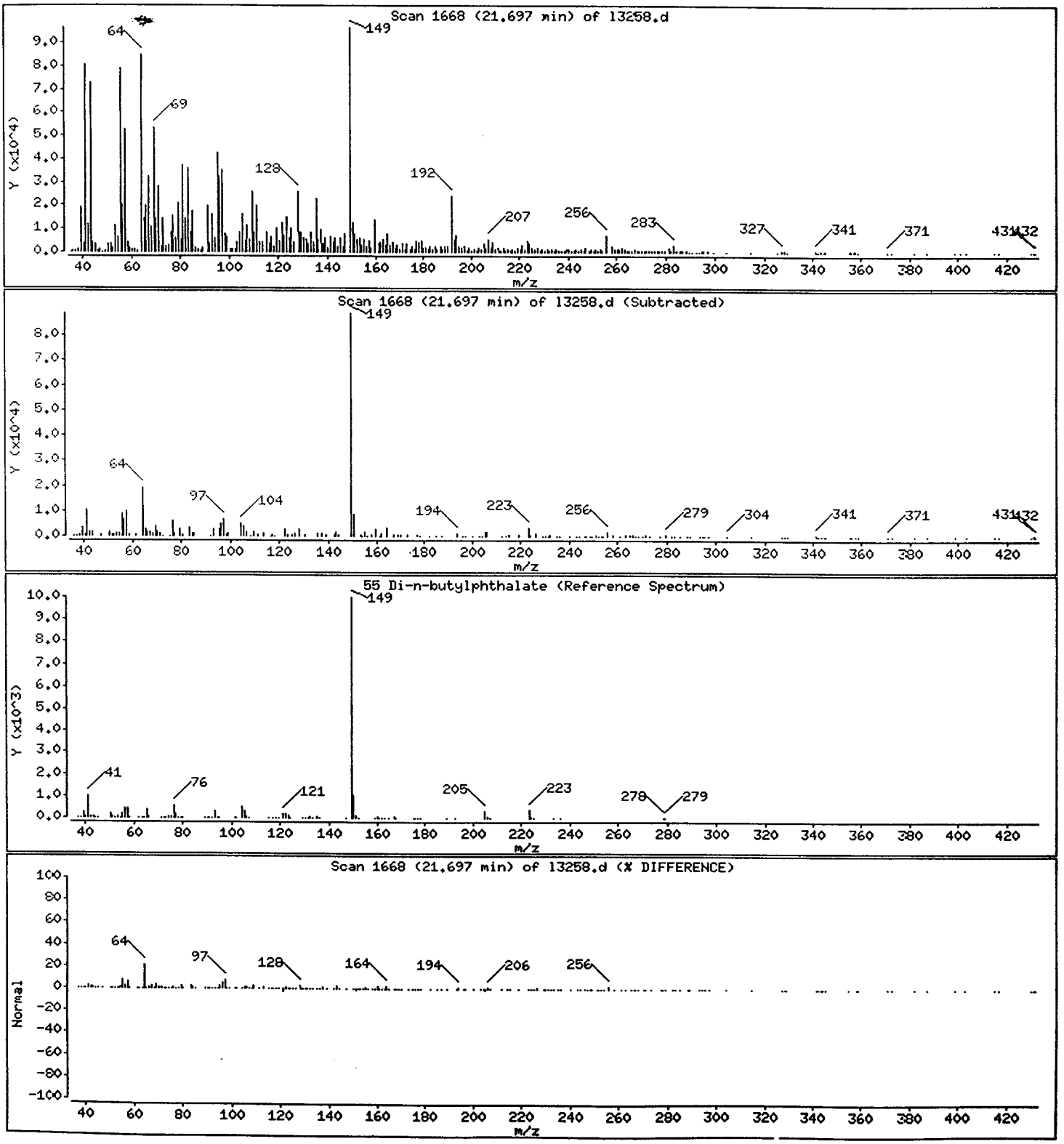
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

55 Di-n-butylphthalate

Concentration: 200 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Instrument: BNAMS7.i

Sample Info: 237829;30;2;1;40.4

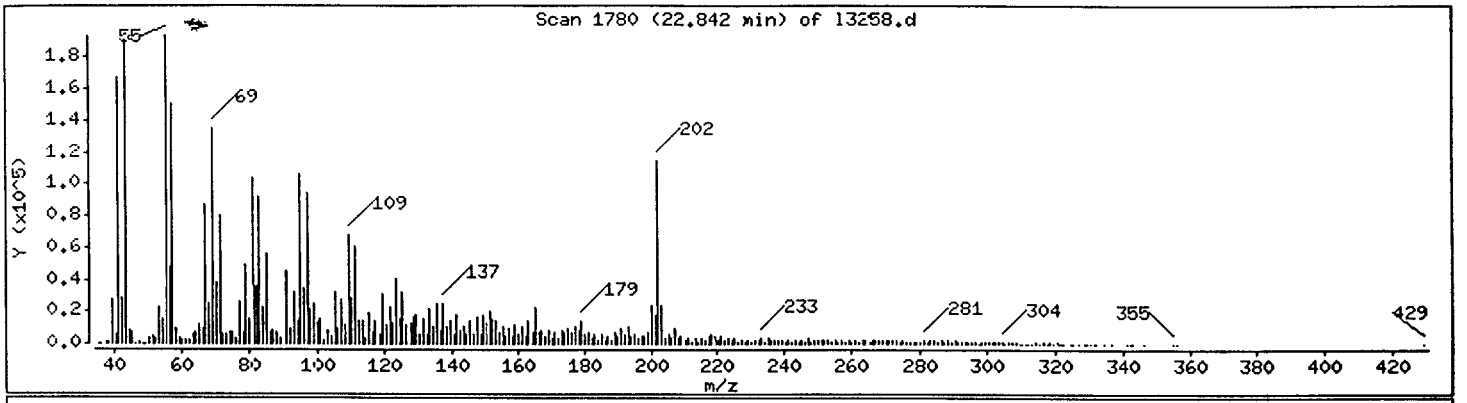
Operator: BNAMS 4

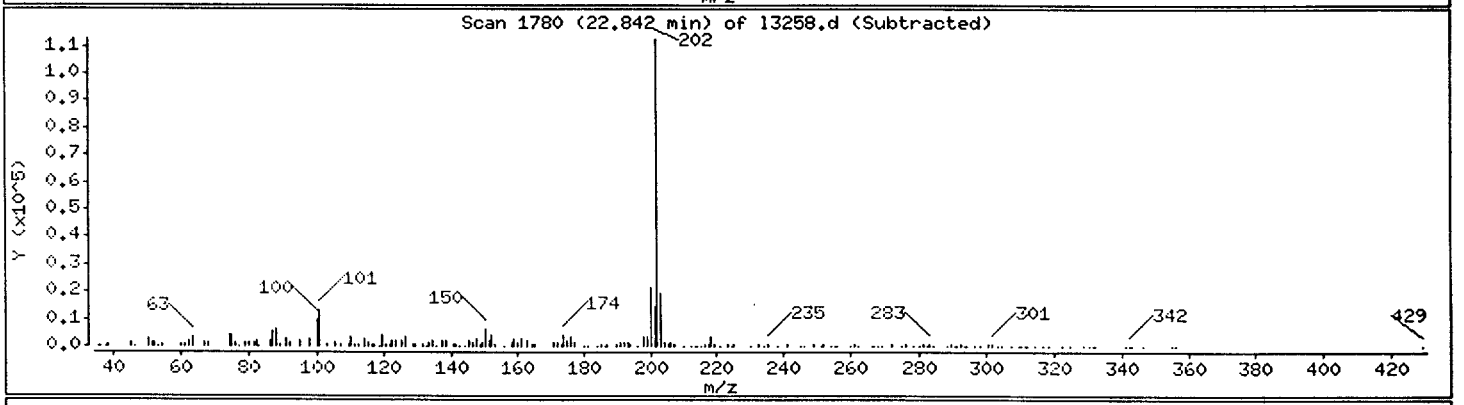
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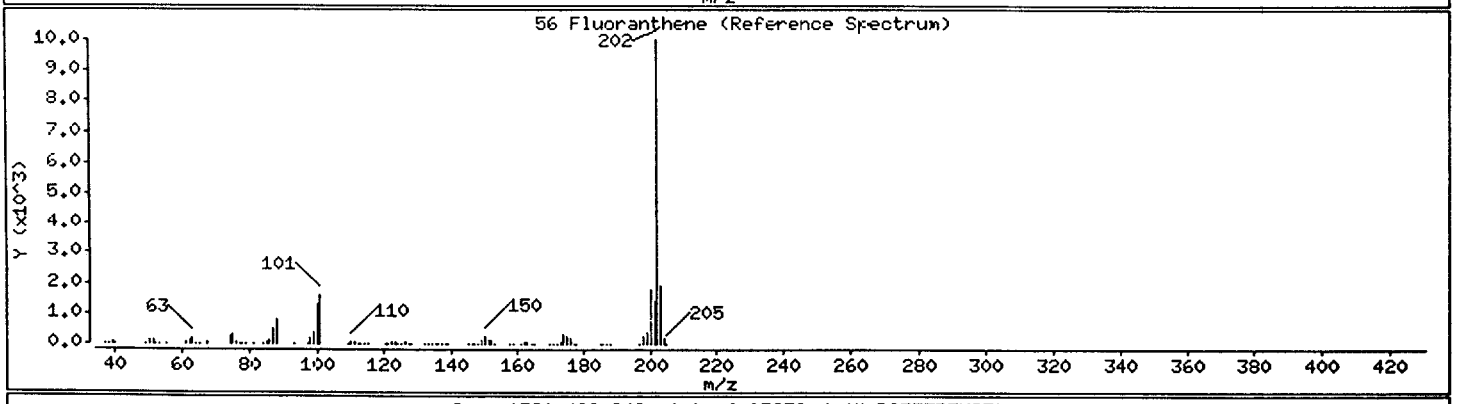
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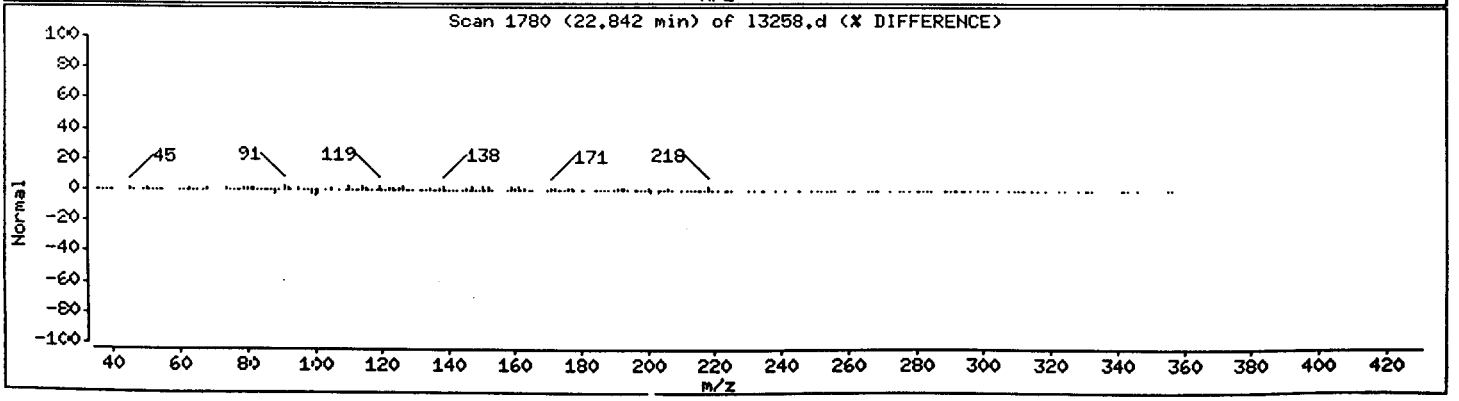
56 Fluoranthene

Concentration: 470 ug/Kg









Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Instrument: BNAMS7.i

Sample Info: 237829;30;2;1;40.4

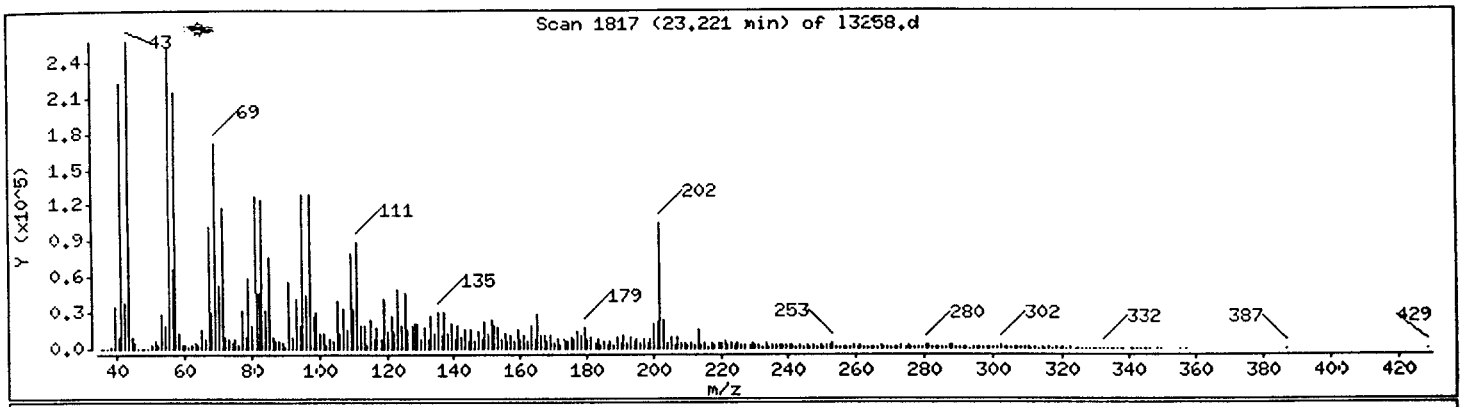
Operator: BNAMS 4

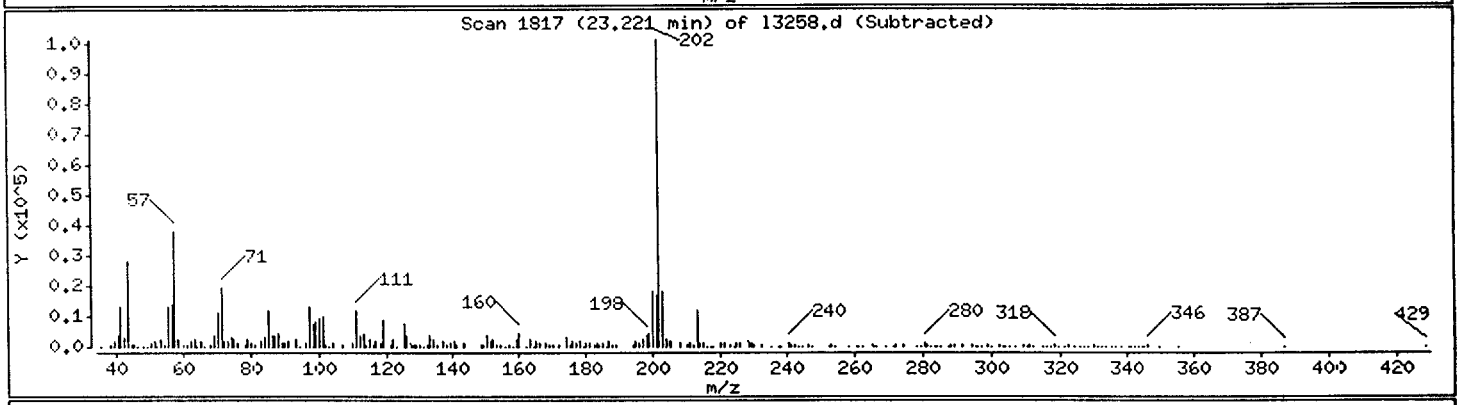
Column phase: DB-5

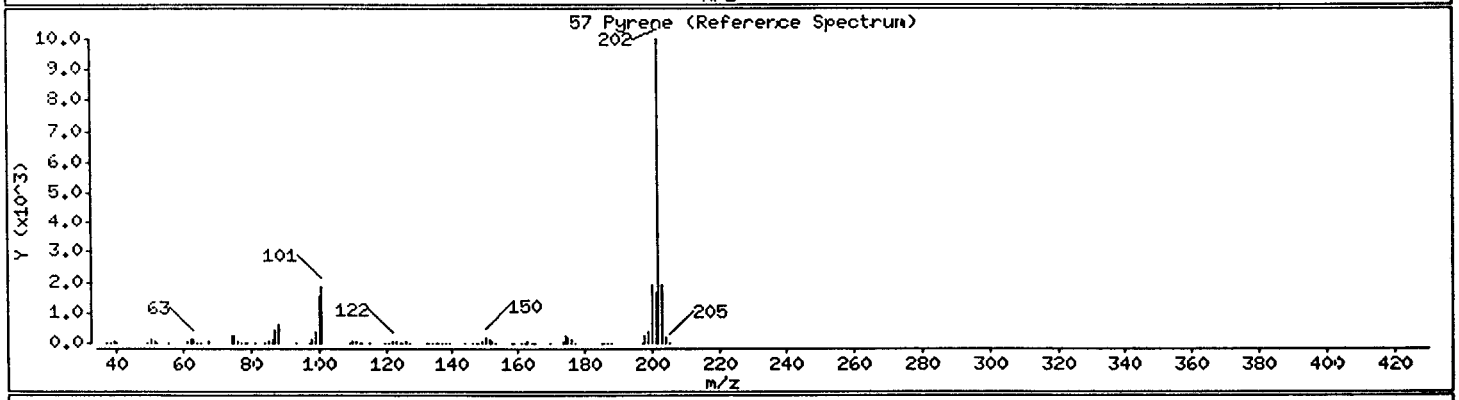
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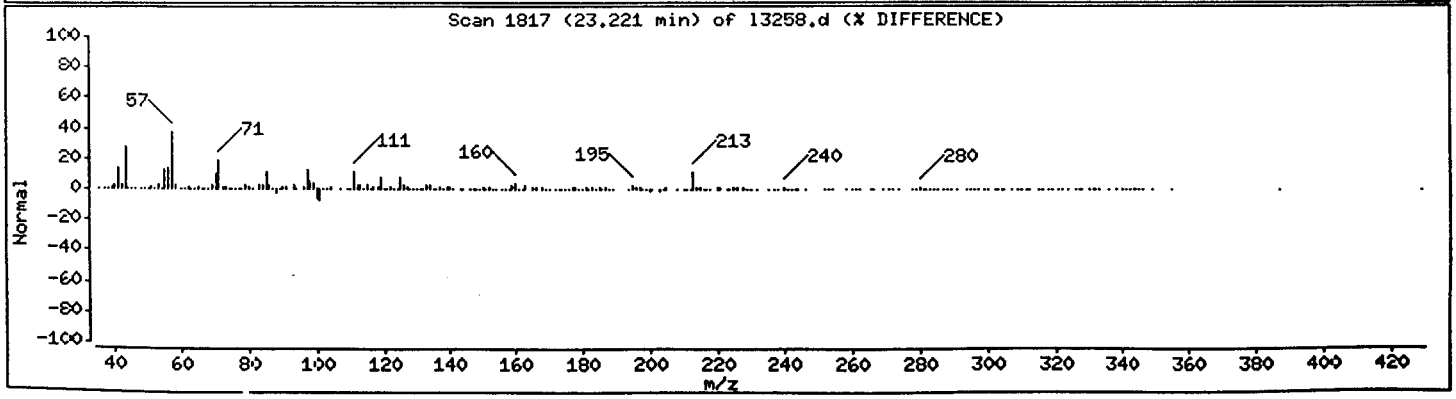
57 Pyrene

Concentration: 420 ug/Kg









Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Instrument: BNAMS7.i

Sample Info: 237829;30;2;1;40.4

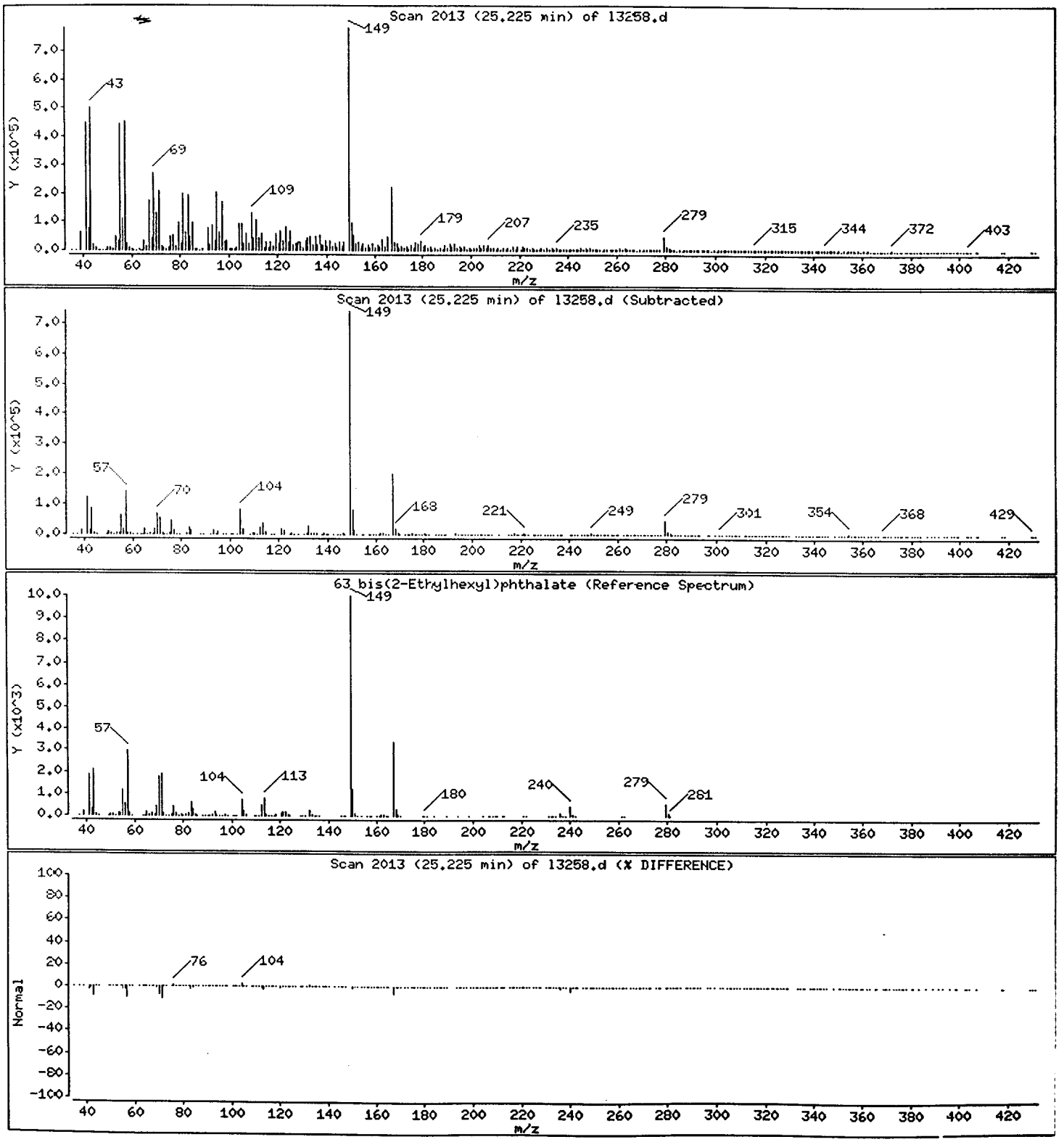
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

63 bis(2-Ethylhexyl)phthalate

Concentration: 3700 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Instrument: BNAMS7.i

Sample Info: 237829;30;2;1;40.4

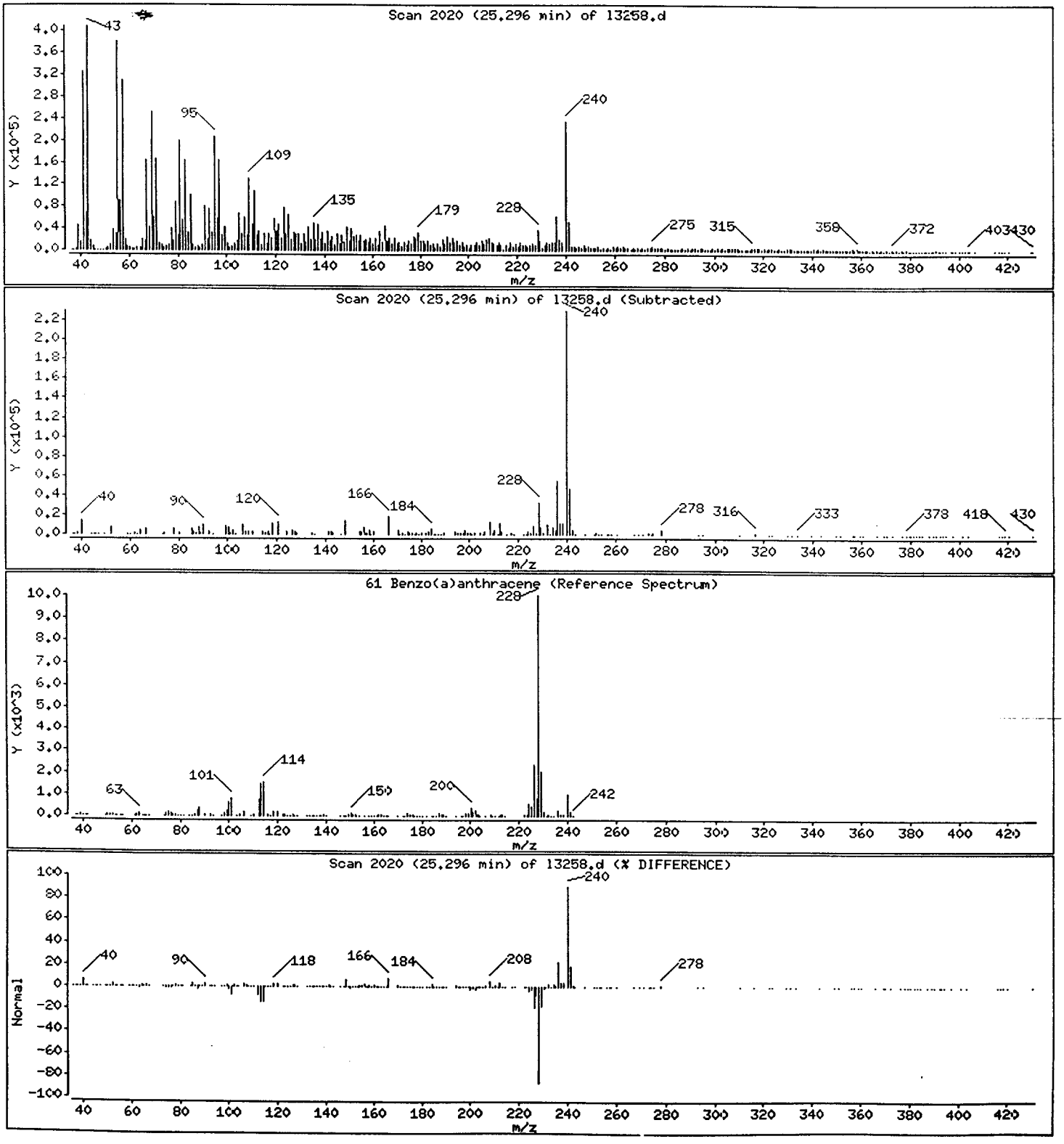
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

61 Benzo(a)anthracene

Concentration: 210 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Instrument: BNAMS7.i

Sample Info: 237829;30;2;1;40.4

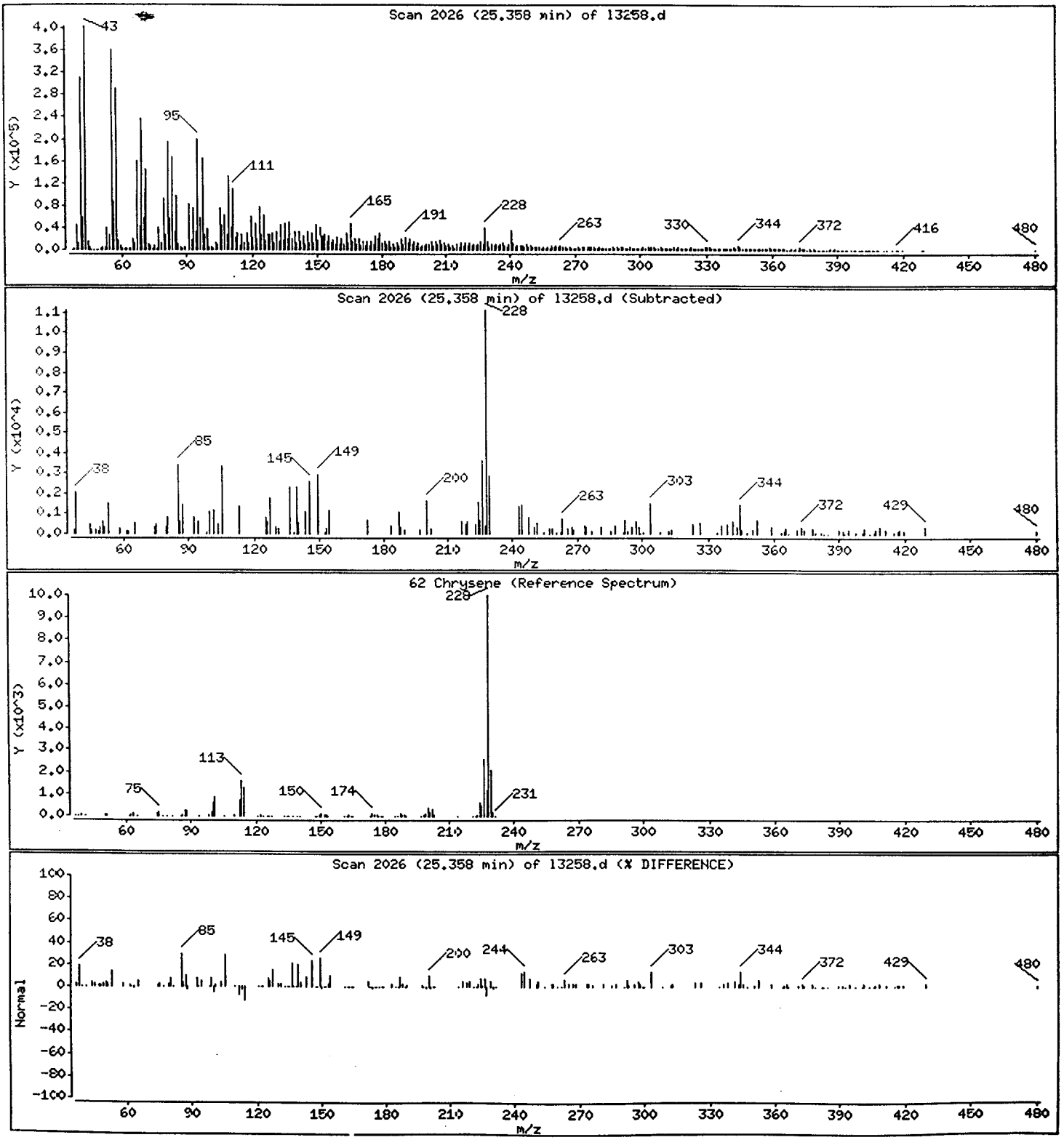
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

62 Chrysene

Concentration: 260 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Instrument: BNAMS7.i

Sample Info: 237829;30;2;1;40.4

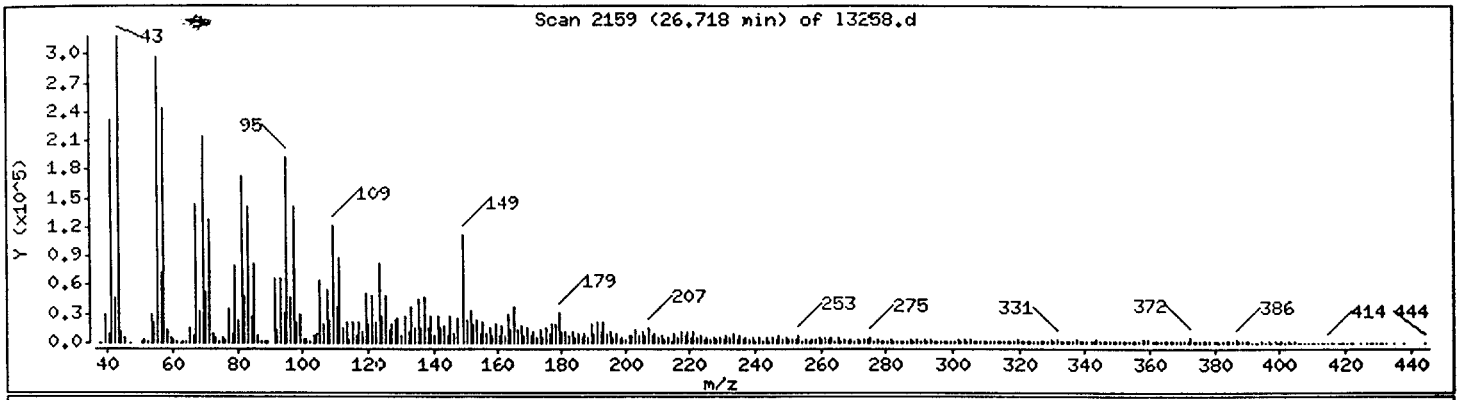
Operator: BNAMS 4

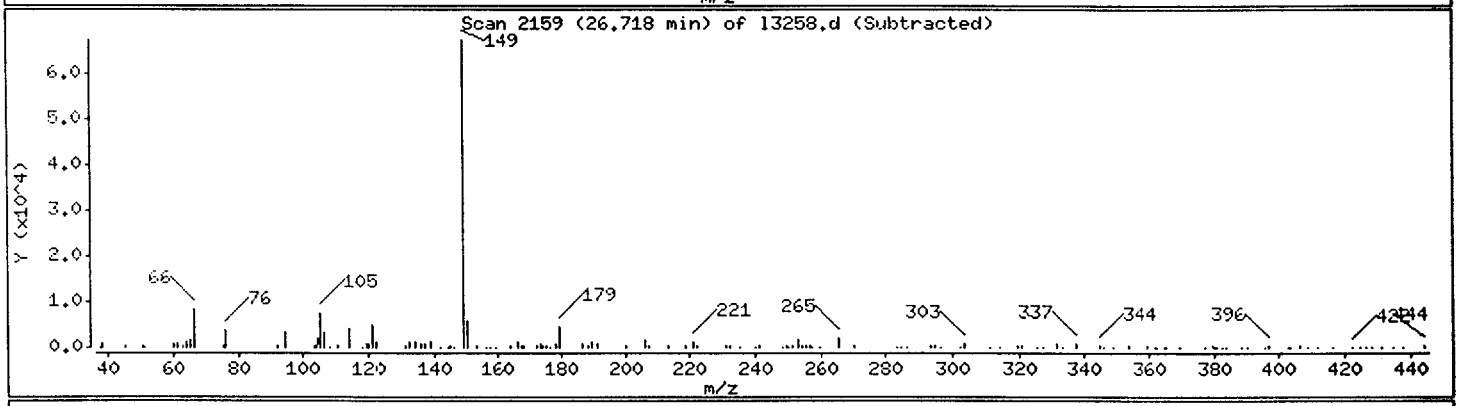
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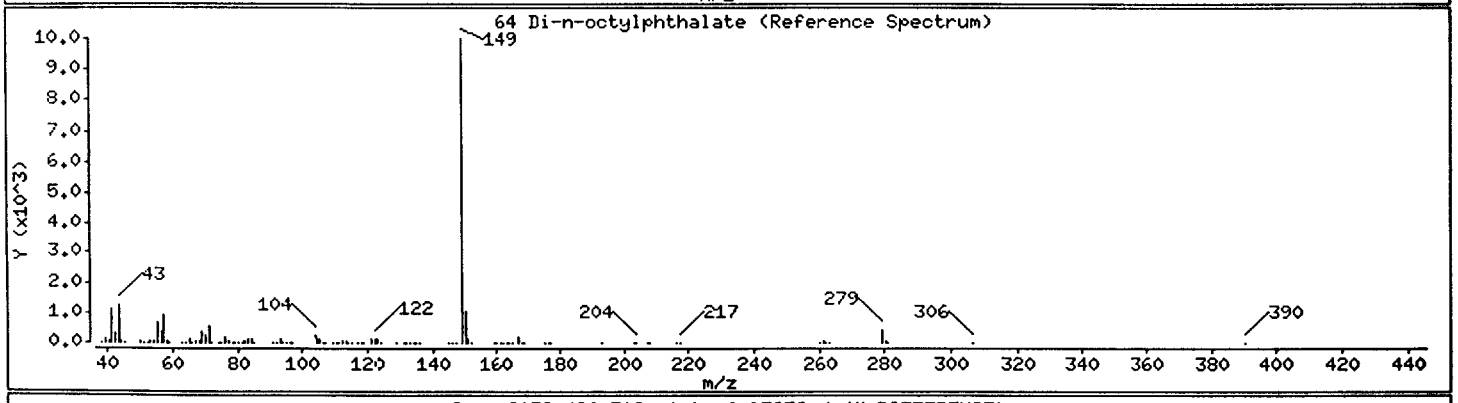
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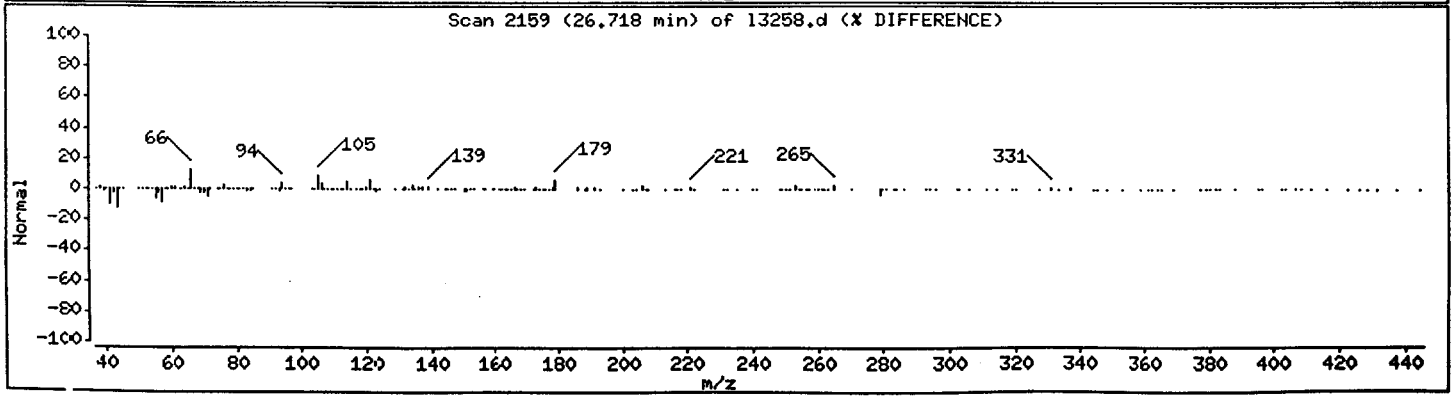
64 Di-n-octylphthalate

Concentration: 420 ug/Kg









Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Instrument: BNAMS7.i

Sample Info: 237829;30;2;1;40.4

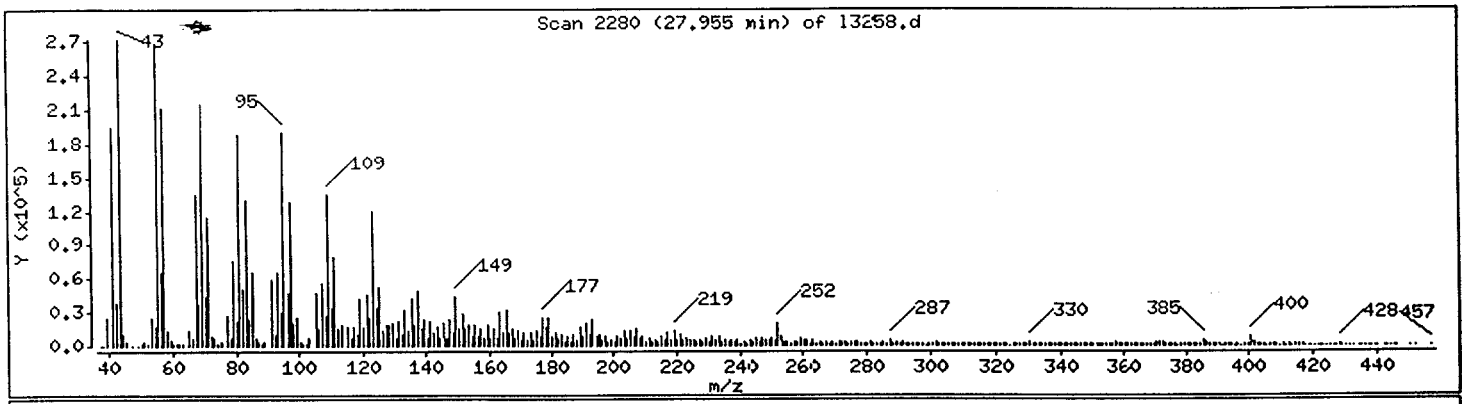
Operator: BNAMS 4

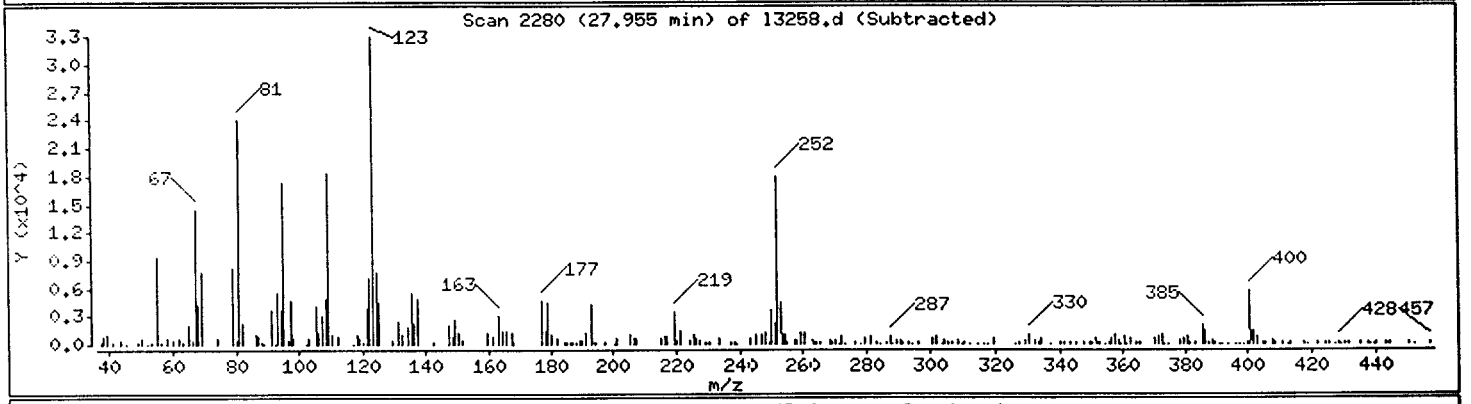
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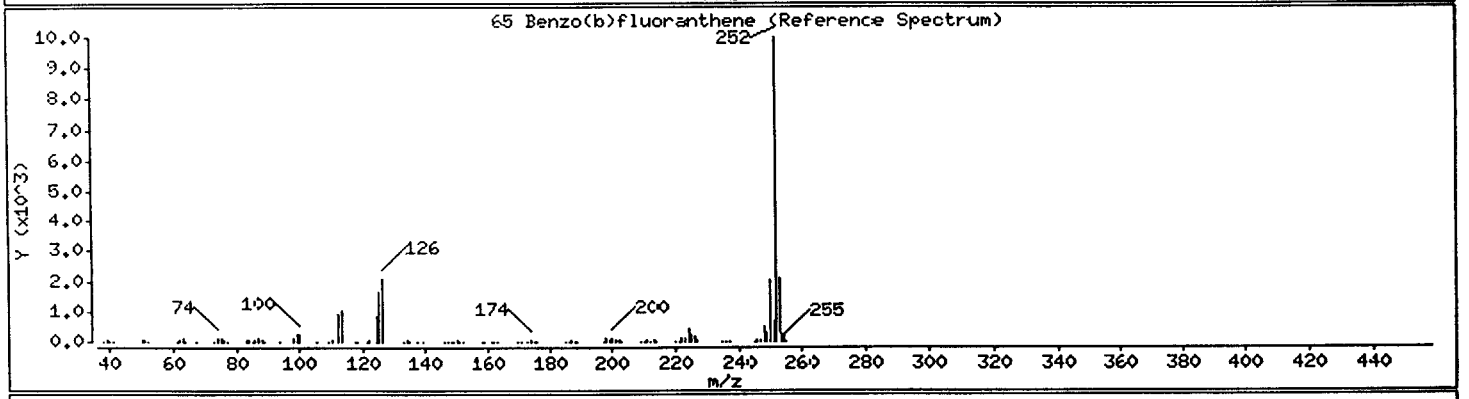
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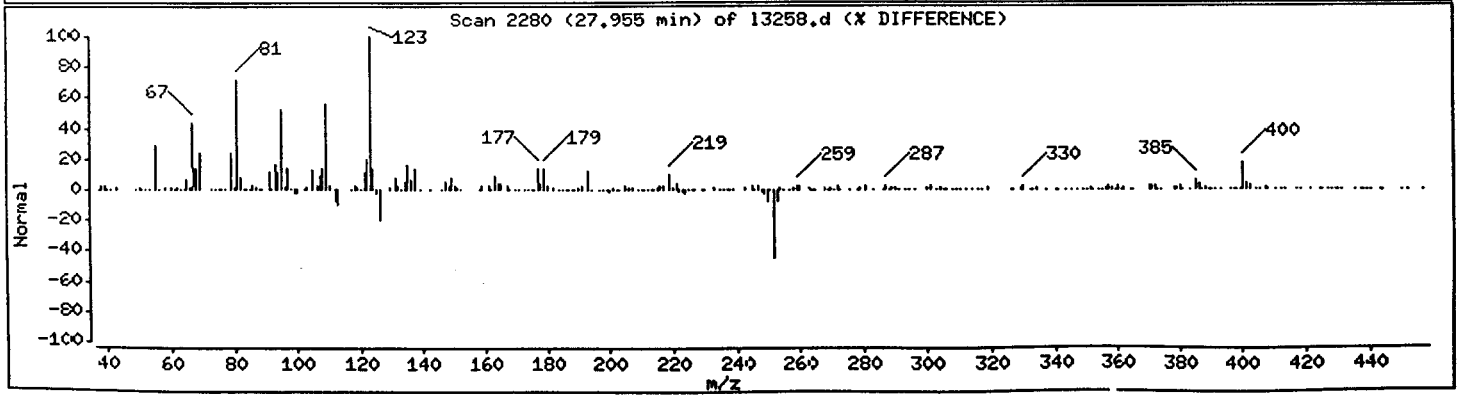
65 Benzo(b)fluoranthene

Concentration: 490 ug/Kg









Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Instrument: BNAMS7.i

Sample Info: 237829;30;2;1;40.4

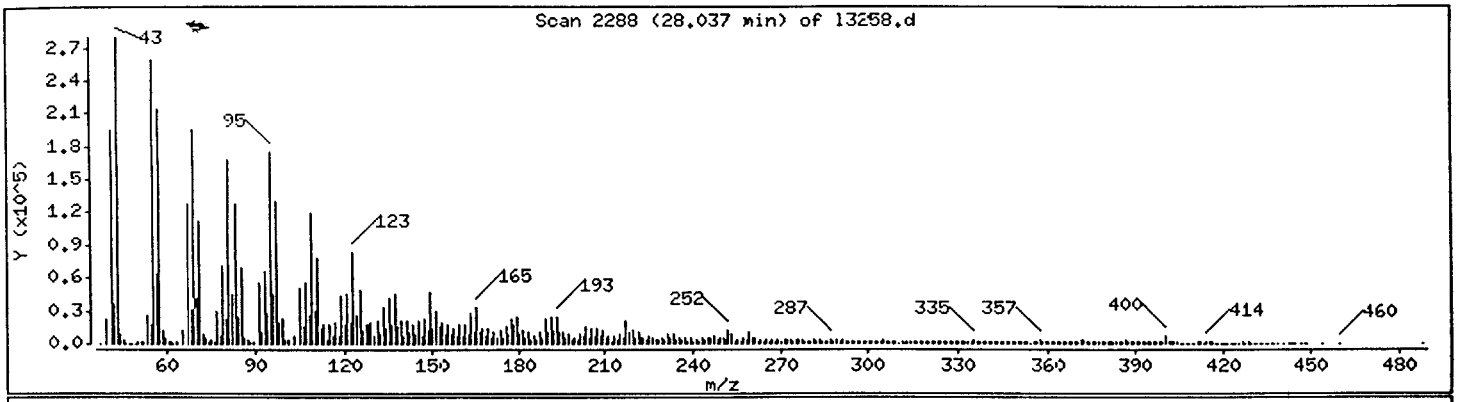
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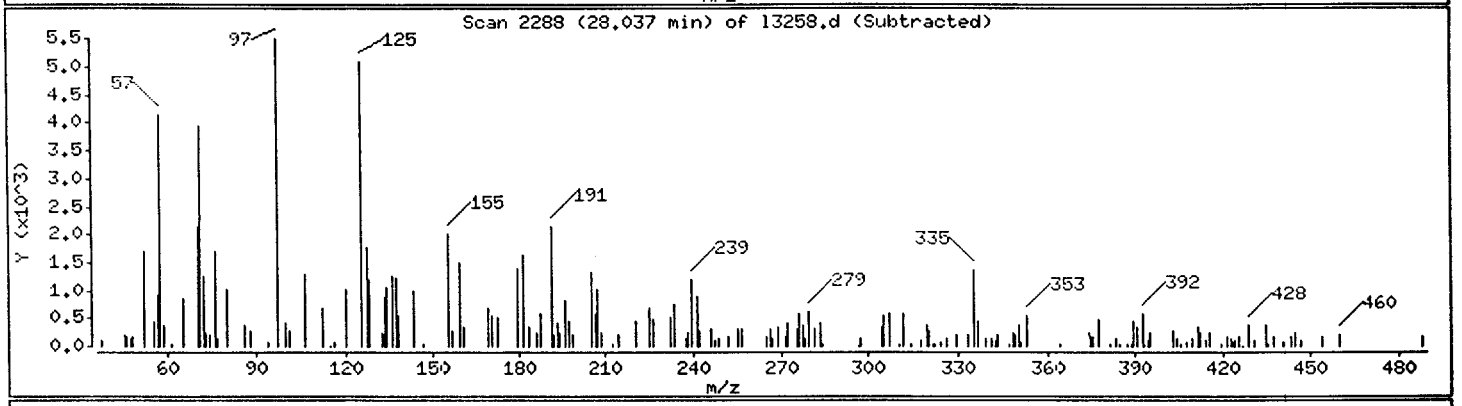
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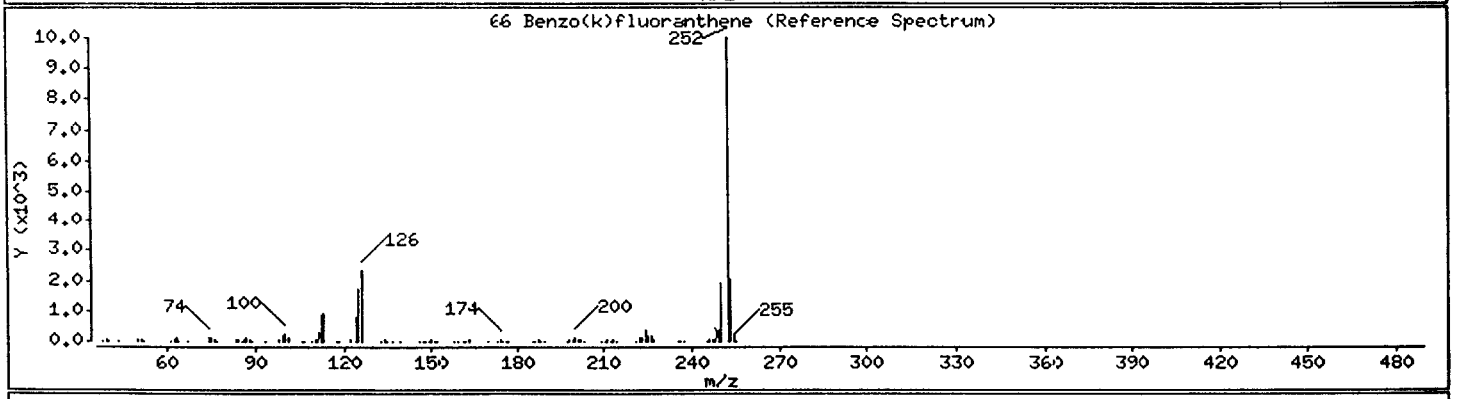
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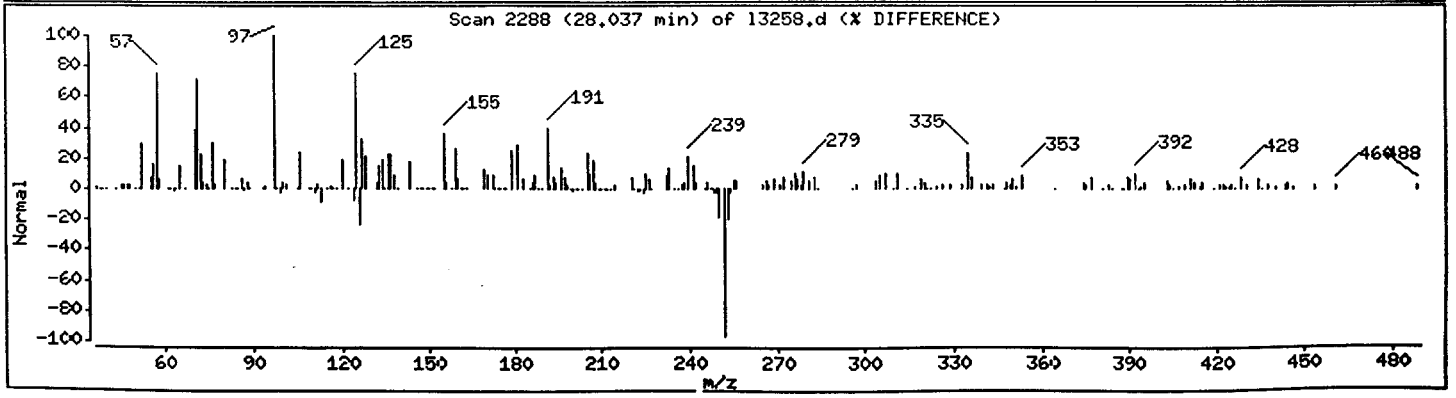
66 Benzo(k)fluoranthene

Concentration: 90 ug/Kg









Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Instrument: BNAMS7.i

Sample Info: 237829;30;2;1;40.4

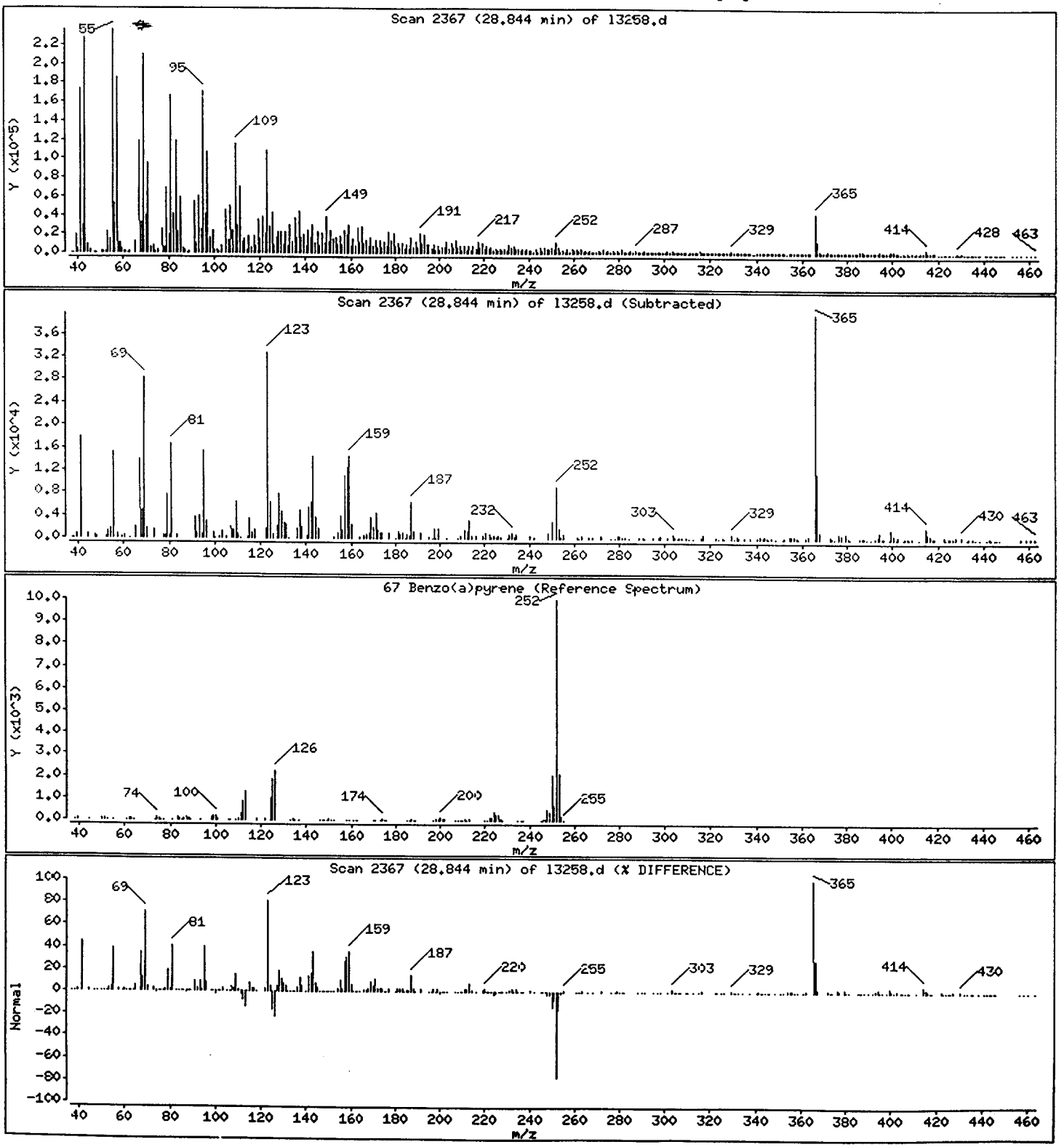
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

67 Benzo(a)pyrene

Concentration: 230 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Instrument: BNAMS7.i

Sample Info: 237829;30;2;1;40,4

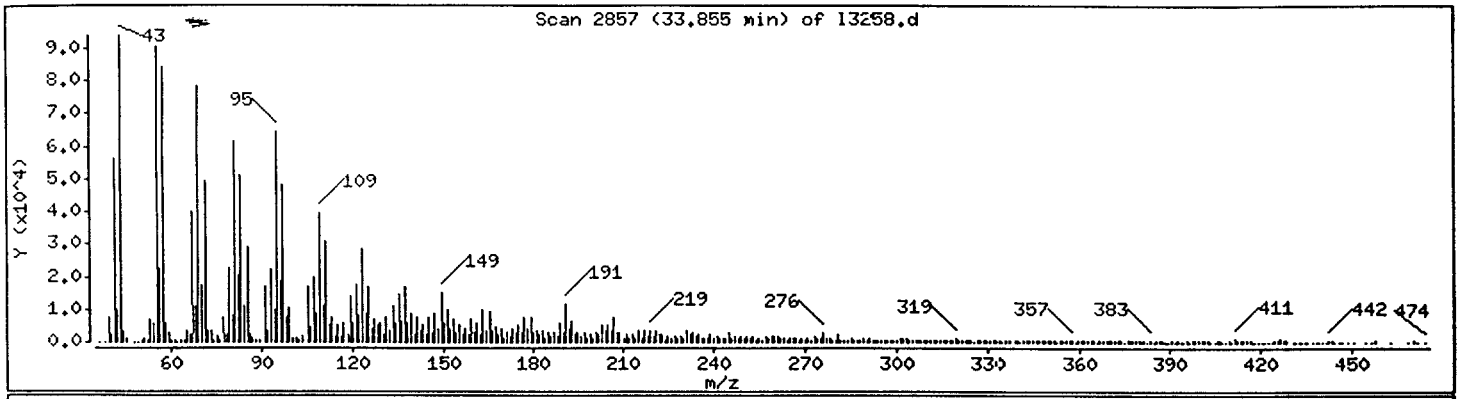
Operator: BNAMS 4

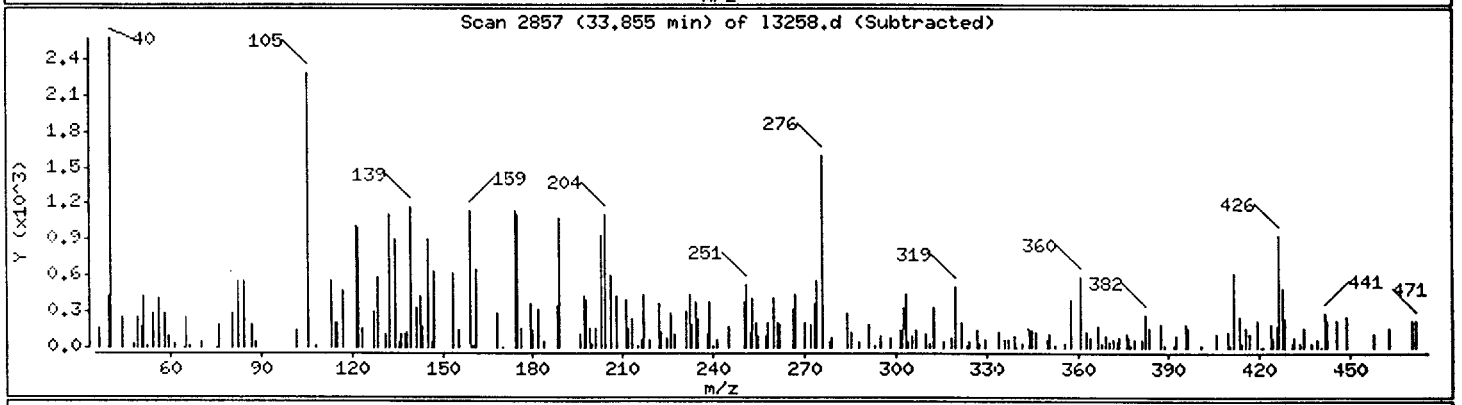
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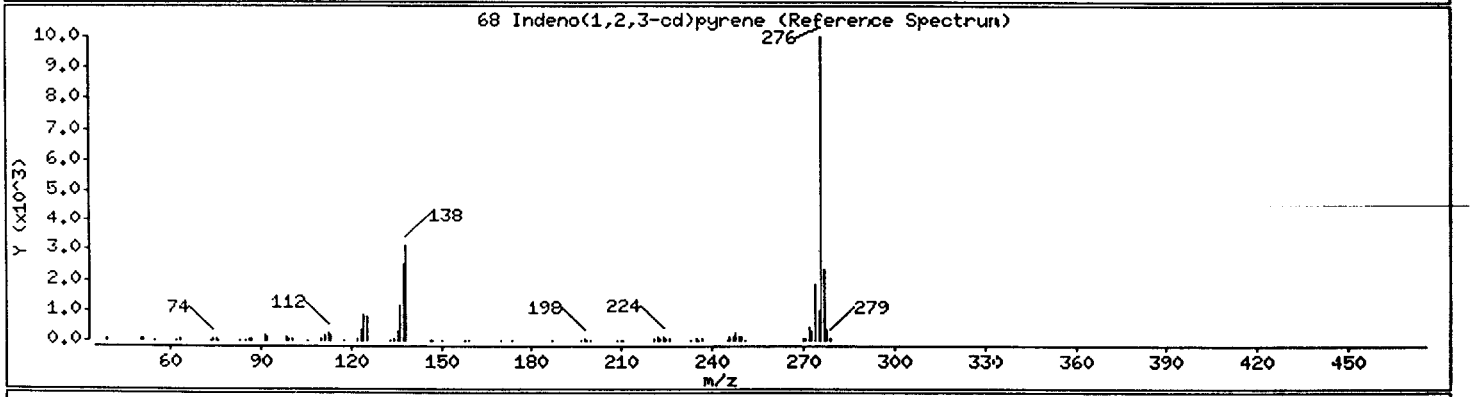
Column diameter: 0.25

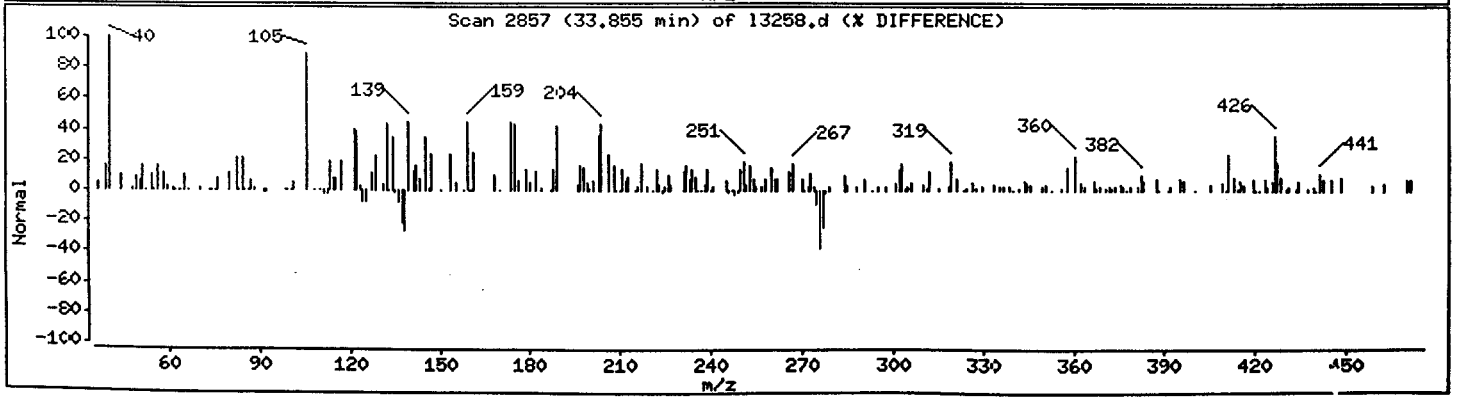
68 Indeno(1,2,3-cd)pyrene

Concentration: 55 ug/Kg









Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Instrument: BNAMS7.i

Sample Info: 237829;30;2;1;40.4

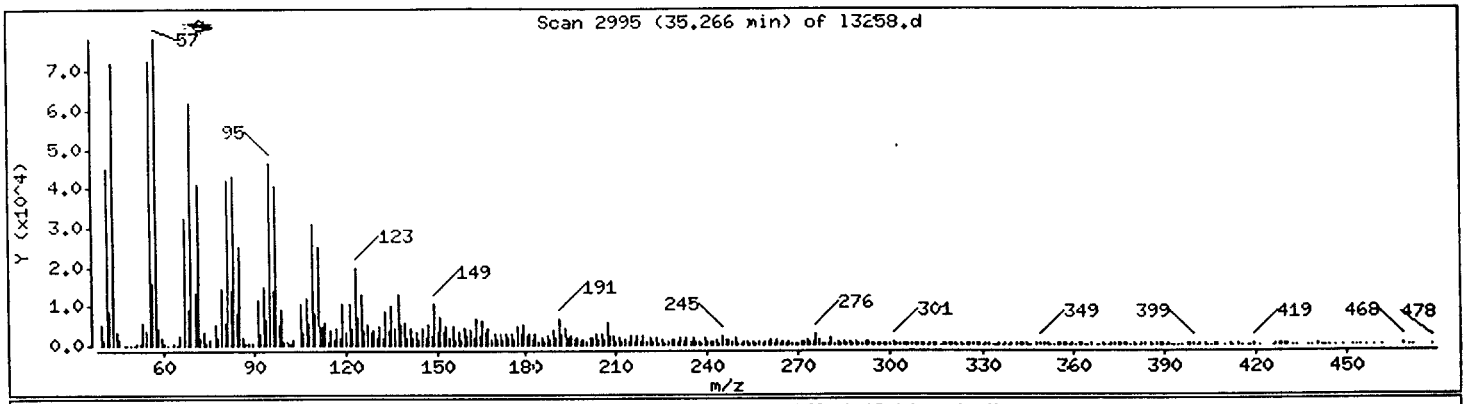
Operator: BNAMS 4

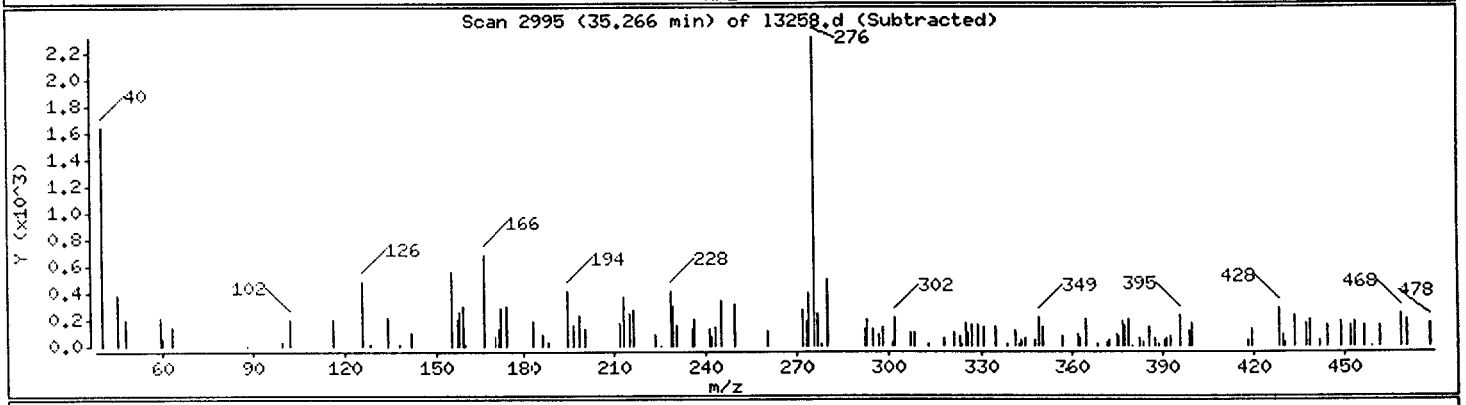
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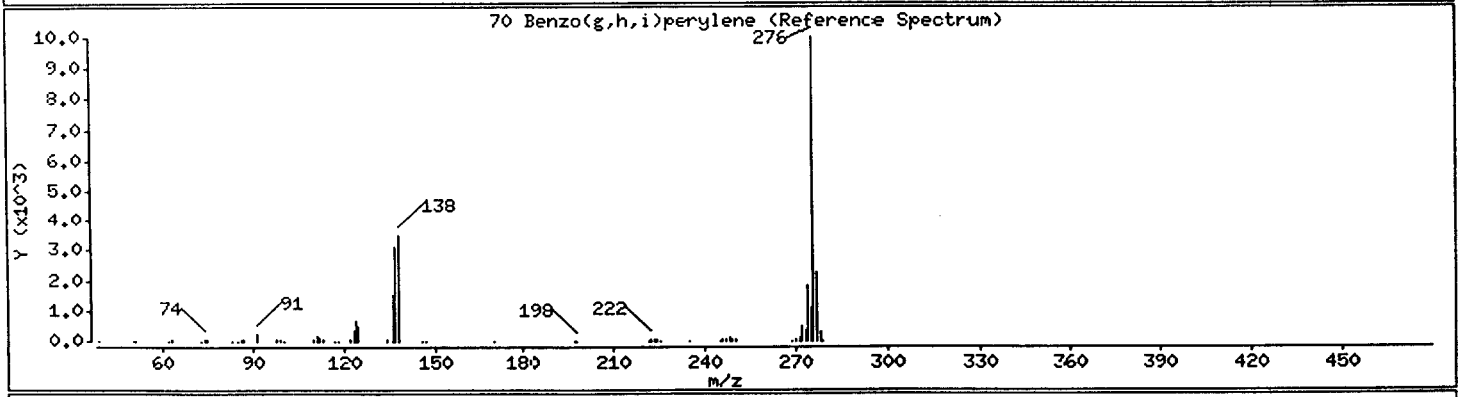
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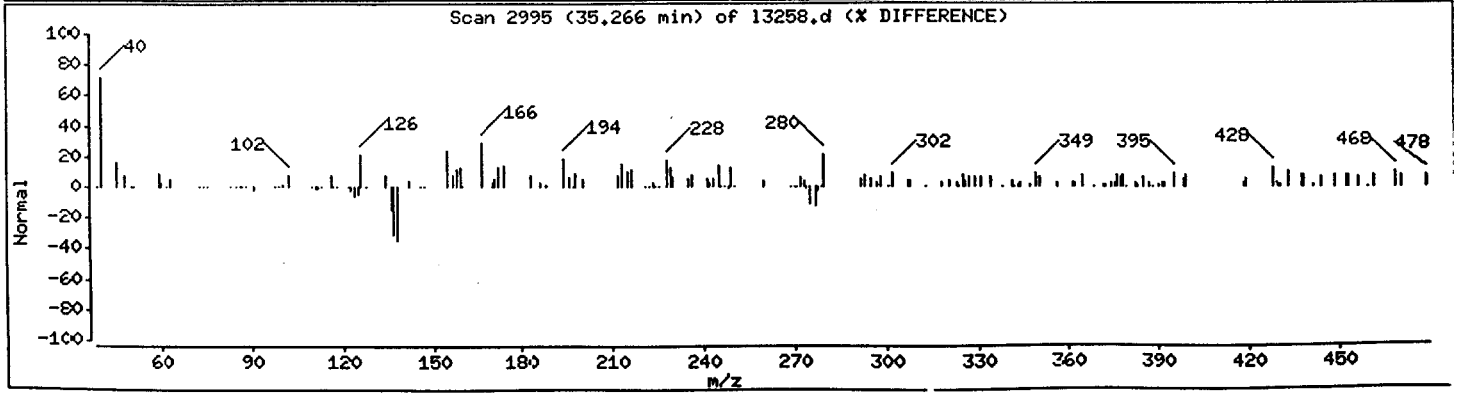
70 Benzo(g,h,i)perylene

Concentration: 74 ug/Kg









Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Instrument: BNAMS7.i

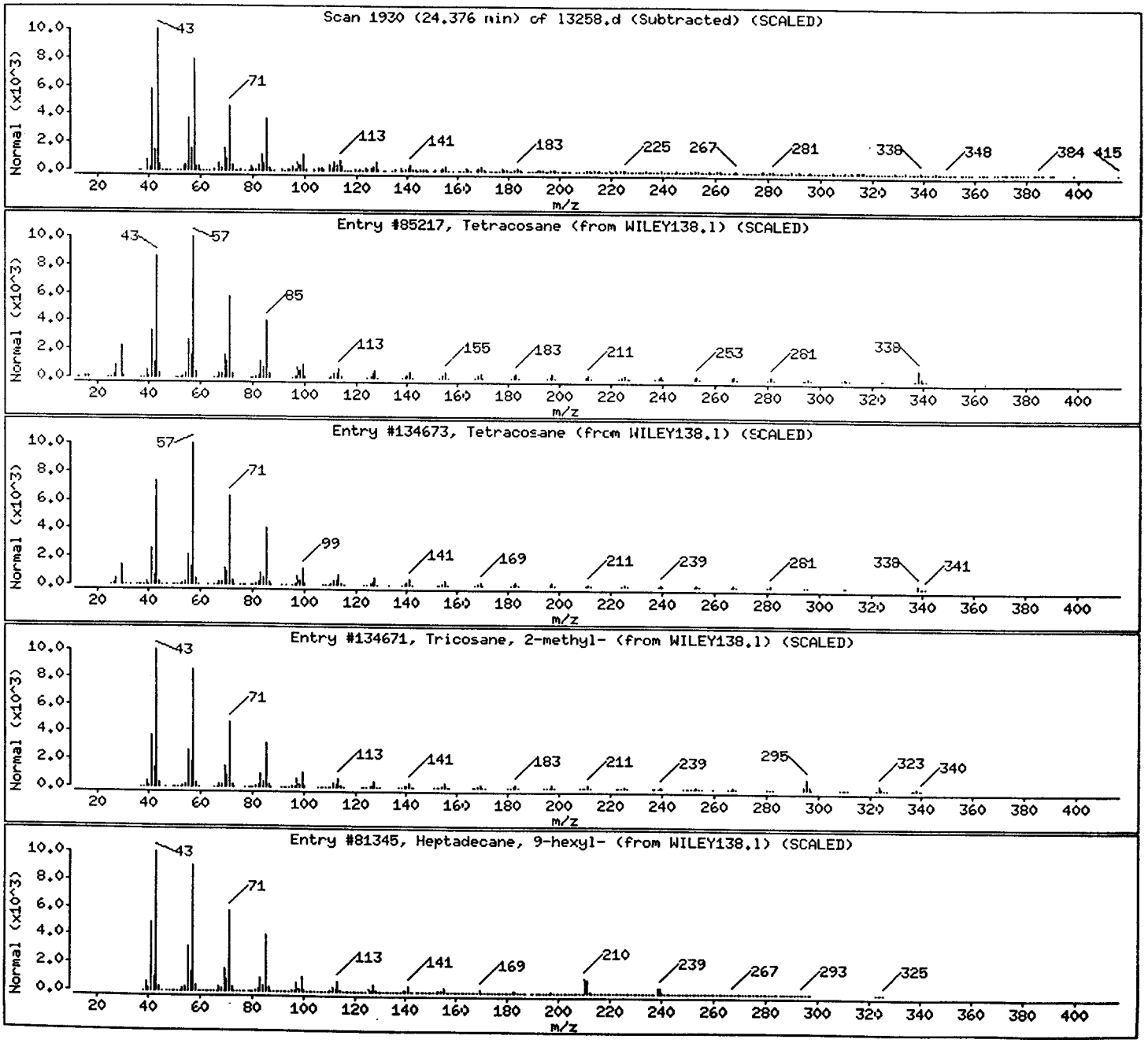
Sample Info: 237829;30;2;1;40.4

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Tetracosane	646-31-1	WILEY138.l	85217	98	C24H50	338
Tetracosane	646-31-1	WILEY138.l	134673	97	C24H50	338
Tricosane, 2-methyl-	1928-30-9	WILEY138.l	134671	94	C24H50	338
Heptadecane, 9-hexyl-	55124-79-3	WILEY138.l	81345	93	C23H48	324



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Instrument: BNAMS7.i

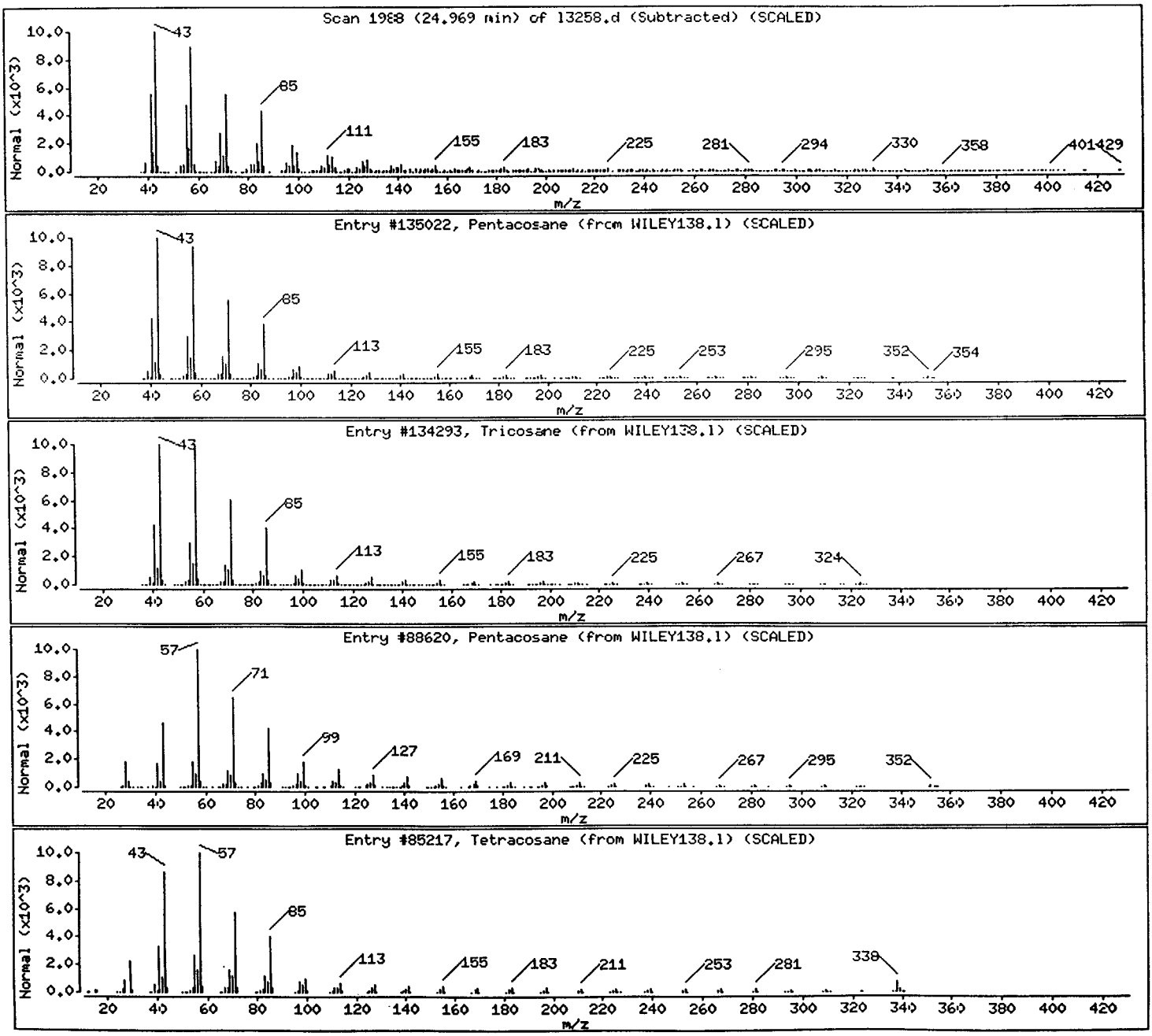
Sample Info: 237829;30;2;1;40.4

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Pentacosane	629-99-2	WILEY138.1	135022	98	C25H52	352
Tricosane	638-67-5	WILEY138.1	134293	96	C23H48	324
Pentacosane	629-99-2	WILEY138.1	88620	96	C25H52	352
Tetracosane	646-31-1	WILEY138.1	85217	95	C24H50	338



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Instrument: BNAMS7.i

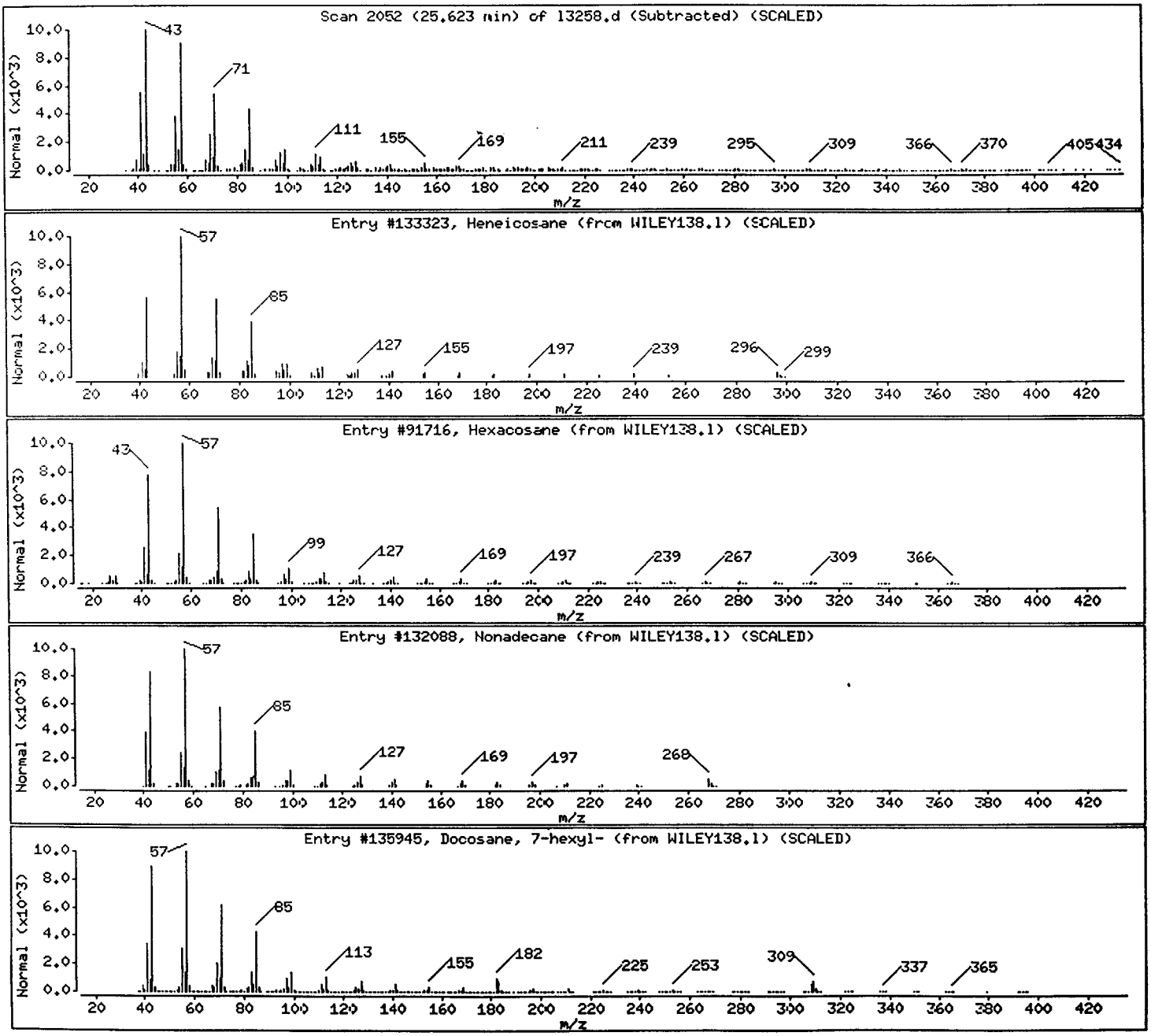
Sample Info: 237829;30;2;1;40,4

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Heneicosane	629-94-7	WILEY138.l	133323	97	C21H44	296
Hexacosane	630-01-3	WILEY138.l	91716	96	C26H54	366
Nonadecane	629-92-5	WILEY138.l	132088	95	C19H40	268
Docosane, 7-hexyl-	55373-86-9	WILEY138.l	135945	93	C28H58	394



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Sample Info: 237829;30;2;1;40.4

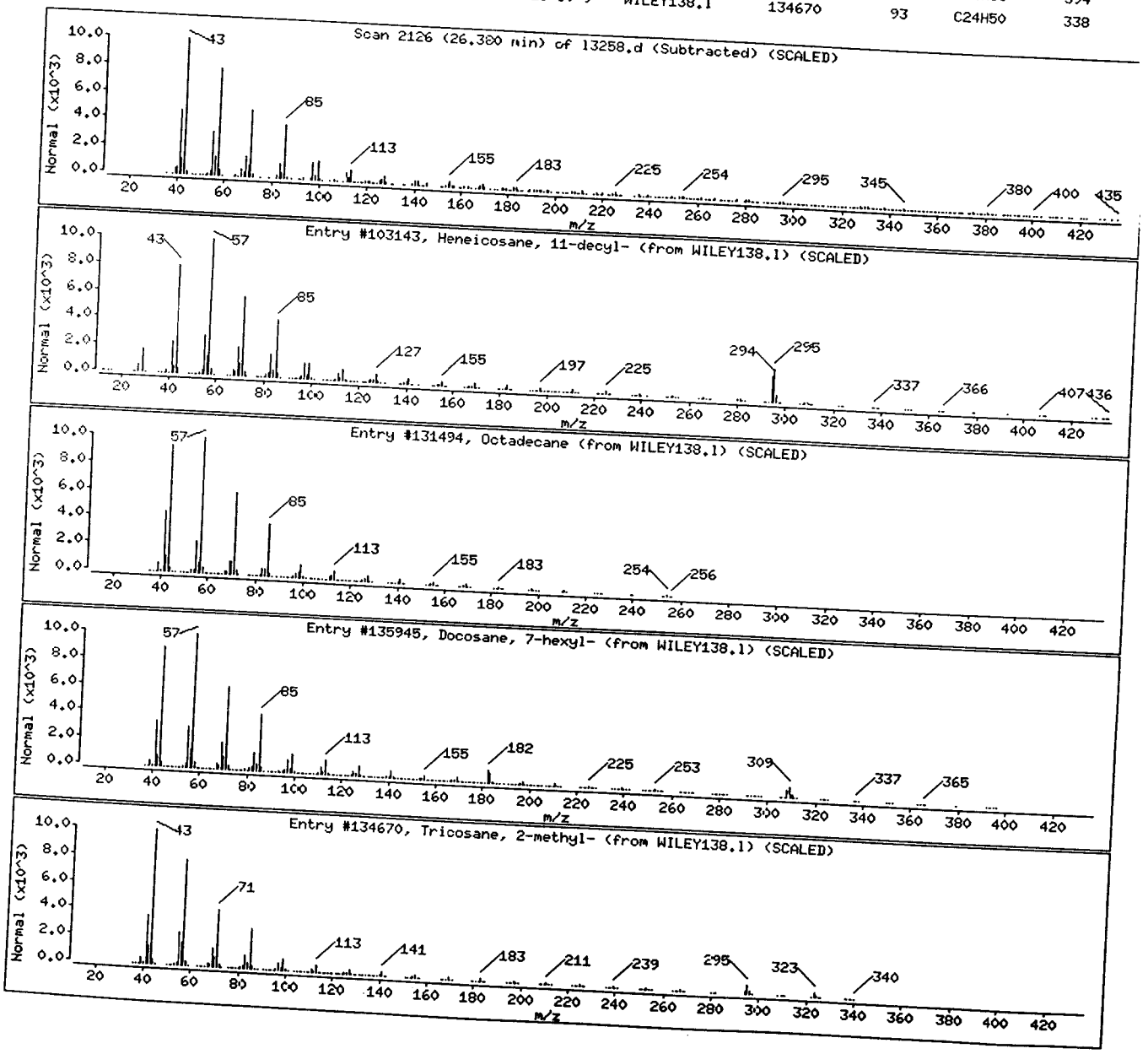
Instrument: BNAMS7.i

Column phase: DB-5

Operator: BNAMS 4

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Heneicosane, 11-decyl-	55320-06-4	WILEY138.1	103143	97	C31H64	436
Octadecane	593-45-3	WILEY138.1	131494	94	C18H38	254
Docosane, 7-hexyl-	55373-86-9	WILEY138.1	135945	93	C28H58	394
Tricosane, 2-methyl-	1928-30-9	WILEY138.1	134670	93	C24H50	338



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Instrument: BNAMS7.i

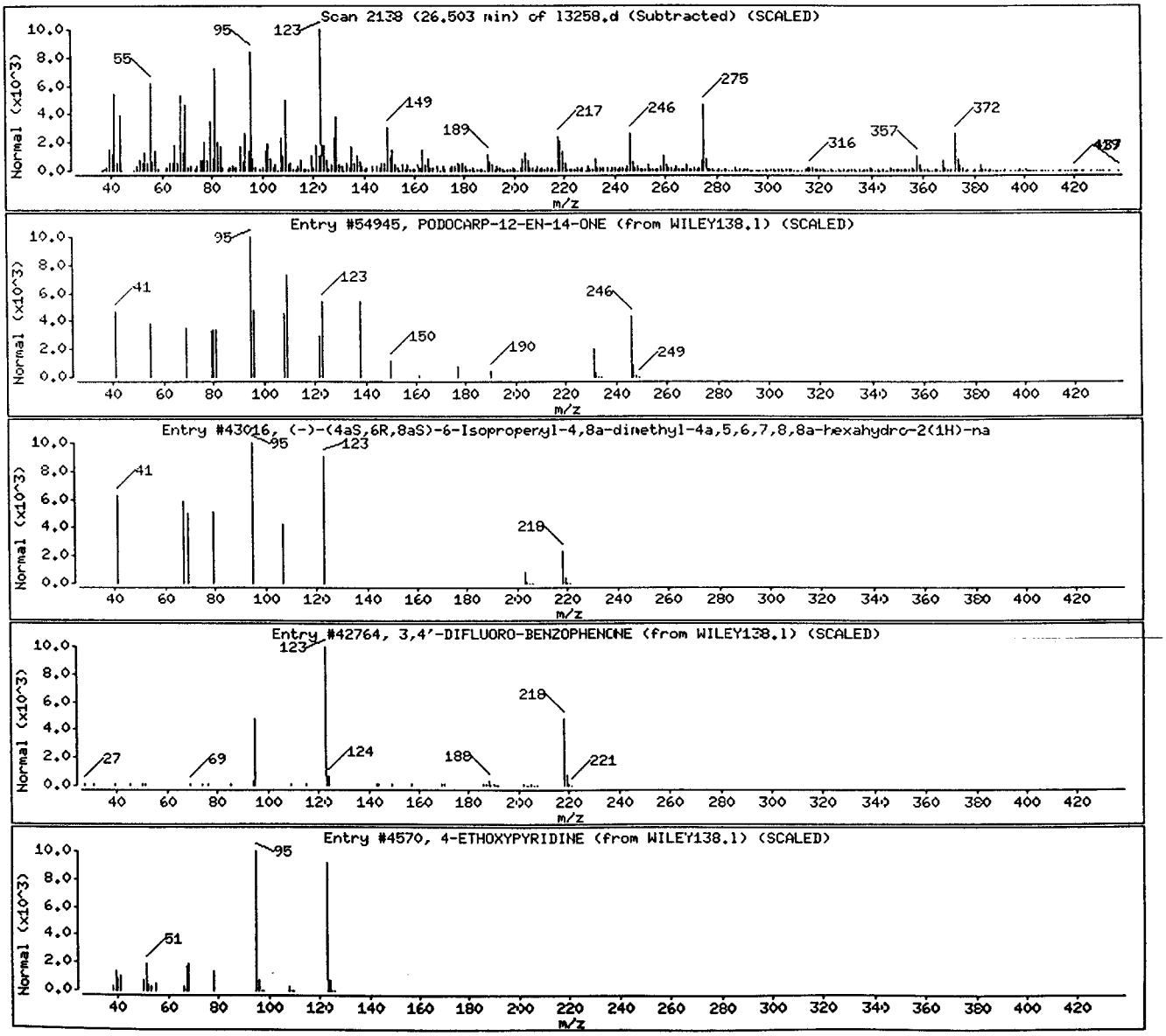
Sample Info: 237829;30;2;1;40.4

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
PODOCARP-12-EN-14-ONE	57684-15-8	WILEY138.l	54945	38	C17H26O	246
(-)-(4aS,6R,8aS)-6-Isopropenyl-4,8a-dime	86917-80-8	WILEY138.l	43016	35	C15H22O	218
3,4'-DIFLUORO-BENZOPHENONE	0-00-0	WILEY138.l	42764	35	C13H8F2O	218
4-ETHOXYPYRIDINE	33399-46-1	WILEY138.l	4570	27	C7H9NO	123



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Instrument: BNAMS7.i

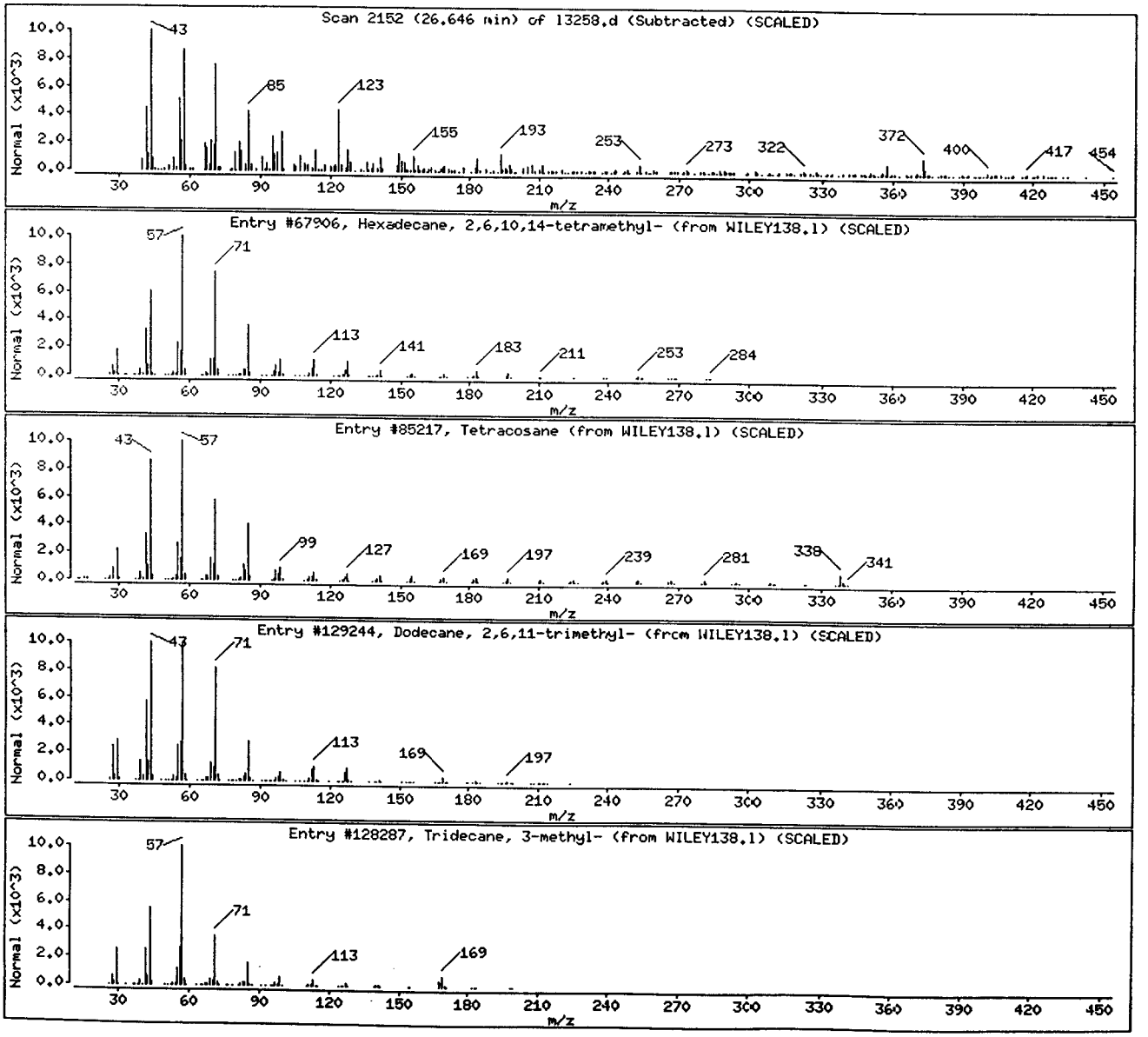
Sample Info: 237829;30;2;1;40.4

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Hexadecane, 2,6,10,14-tetramethyl-	638-36-8	WILEY138.l	67906	42	C20H42	282
Tetracosane	646-31-1	WILEY138.l	85217	42	C24H50	338
Dodecane, 2,6,11-trimethyl-	31295-56-4	WILEY138.l	129244	38	C15H32	212
Tridecane, 3-methyl-	6418-41-3	WILEY138.l	128287	35	C14H30	198



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Instrument: BNAMS7.i

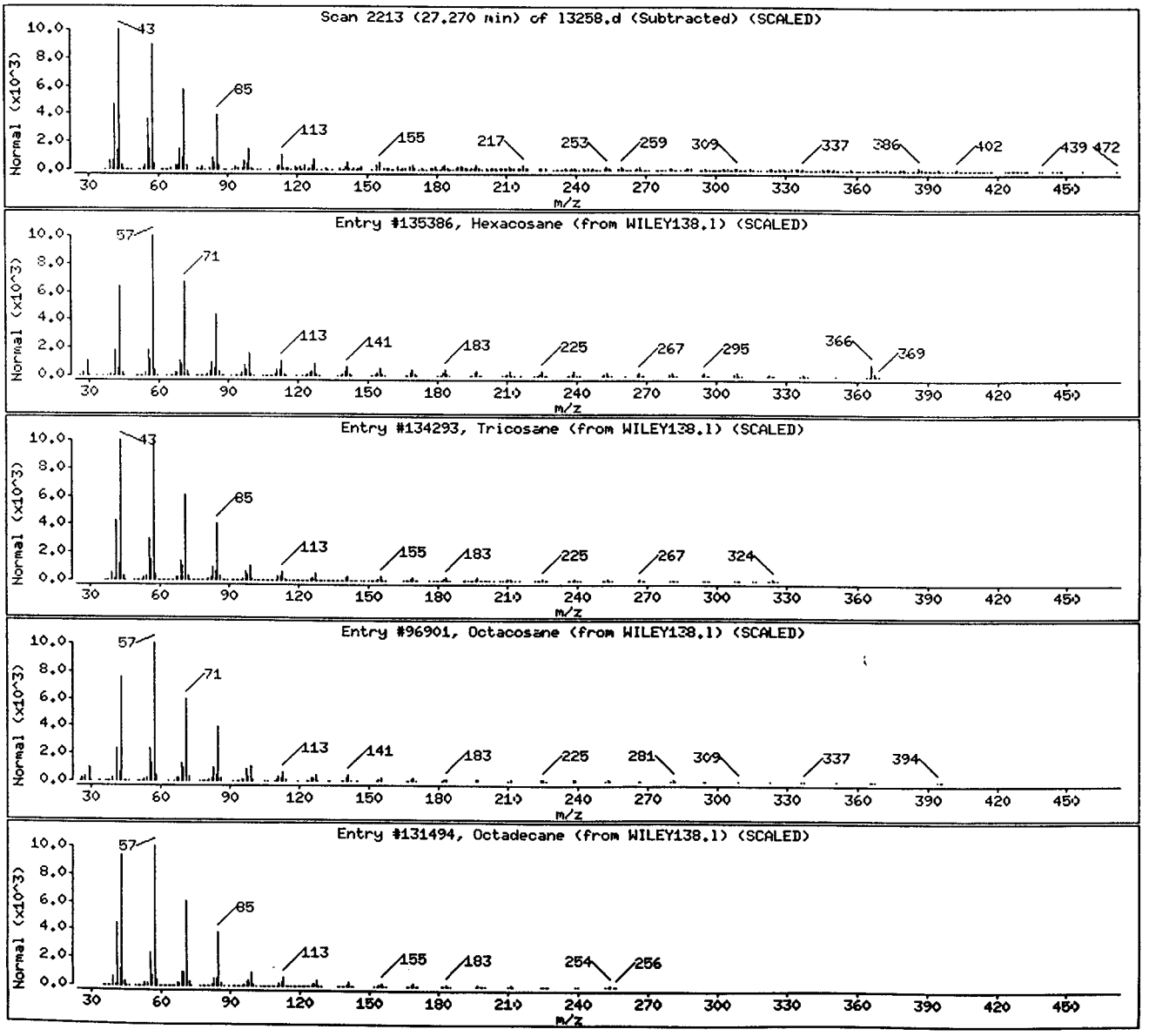
Sample Info: 237829;30;2;1;40.4

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Hexacosane	630-01-3	WILEY138.l	135386	98	C26H54	366
Tricosane	638-67-5	WILEY138.l	134293	98	C23H48	324
Octacosane	630-02-4	WILEY138.l	96901	98	C28H58	394
Octadecane	593-45-3	WILEY138.l	131494	95	C18H38	254



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Instrument: BNAMS7.i

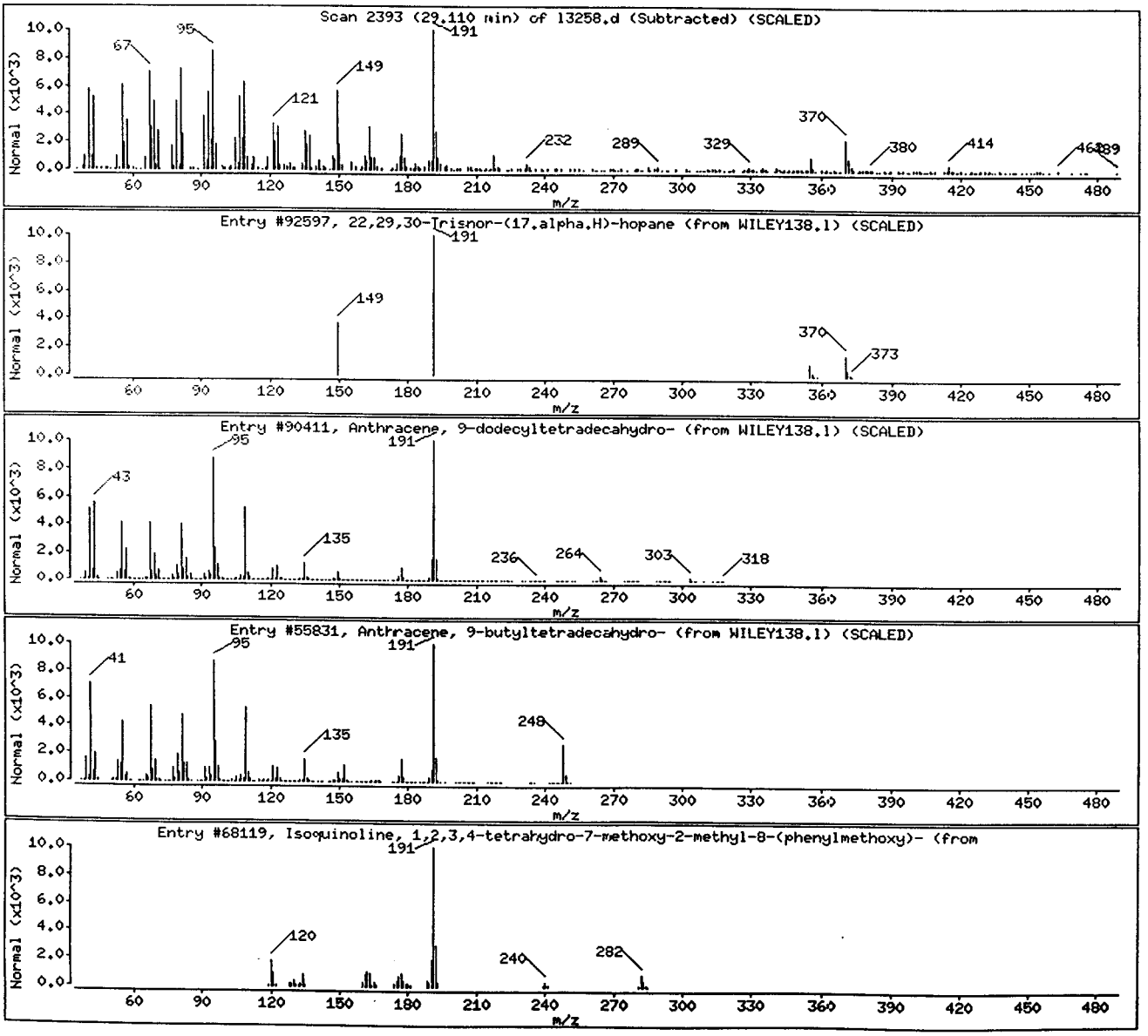
Sample Info: 237829;30;2;1;40.4

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
22,29,30-Trisnor-(17.alpha.H)-hopane	0-00-0	WILEY138.1	92597	59	C27H46	370
Anthracene, 9-dodecyltetradecahydro-	55401-75-7	WILEY138.1	90411	47	C26H48	360
Anthracene, 9-butyltetradecahydro-	55133-89-6	WILEY138.1	55831	40	C18H32	248
Isoquinoline, 1,2,3,4-tetrahydro-7-metho	36646-87-4	WILEY138.1	68119	32	C18H21NO2	283



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Instrument: BNAMS7.i

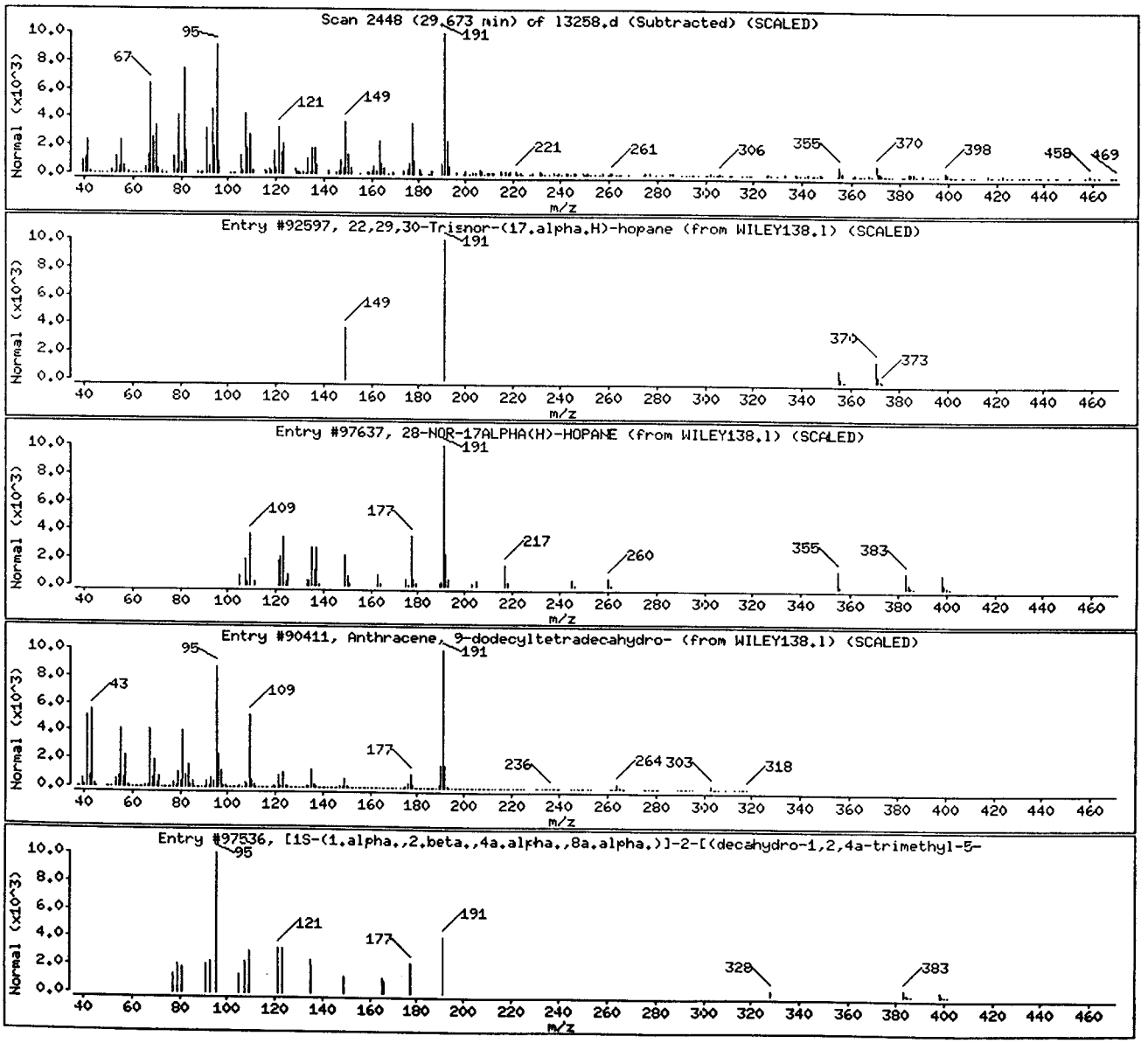
Sample Info: 237829;30;2;1;40.4

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
22,29,30-Trisnor-(17.alpha.H)-hopane	0-00-0	WILEY138.l	92597	47	C27H46	370
28-NOR-17ALPHA(H)-HOPANE	53584-60-4	WILEY138.l	97637	43	C29H50	398
Anthracene, 9-dodecyltetradecahydro-	55401-75-7	WILEY138.l	90411	40	C26H48	360
[1S-(1.alpha.,2.beta.,4a.alpha.,8a.alpha	87764-14-5	WILEY138.l	97536	38	C25H3404	398



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Instrument: BNAMS7.i

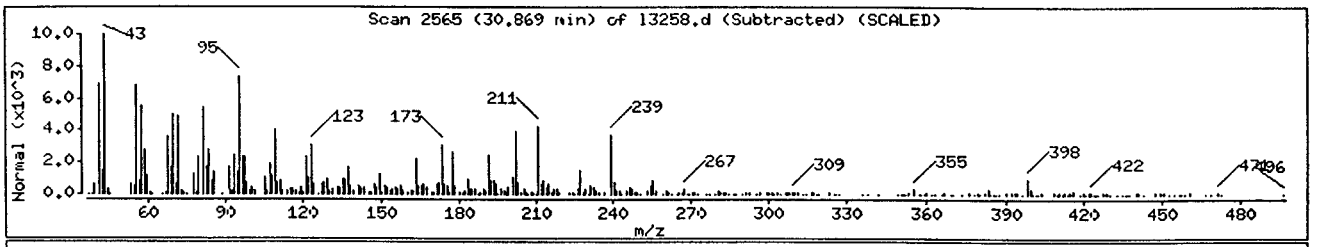
Sample Info: 237829;30;2;1;40.4

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Unknown			0	0		0



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Instrument: BNAMS7.i

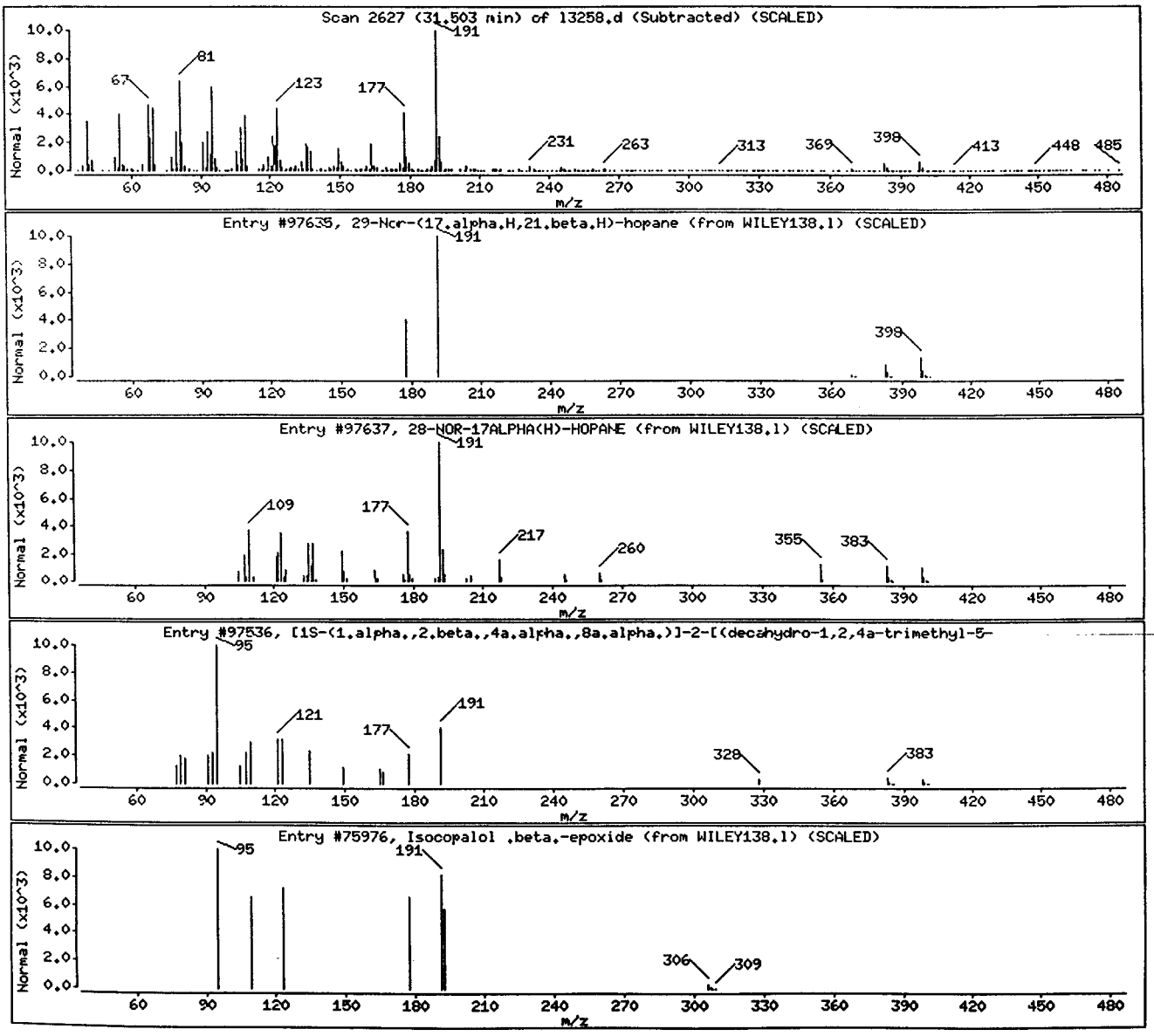
Sample Info: 237829;30;2;1;40.4

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
29-Nor-(17.alpha.H,21.beta.H)-hopane	0-00-0	WILEY138.l	97635	72	C29H50	398
28-NOR-17ALPHA(H)-HOPANE	53584-60-4	WILEY138.l	97637	62	C29H50	398
[1S-(1.alpha.,2.beta.,4a.alpha.,8a.alpha	87764-14-5	WILEY138.l	97536	50	C25H3404	398
Isocopalol .beta.-epoxide	72264-56-3	WILEY138.l	75976	47	C20H34O2	306



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Instrument: BNAMS7.i

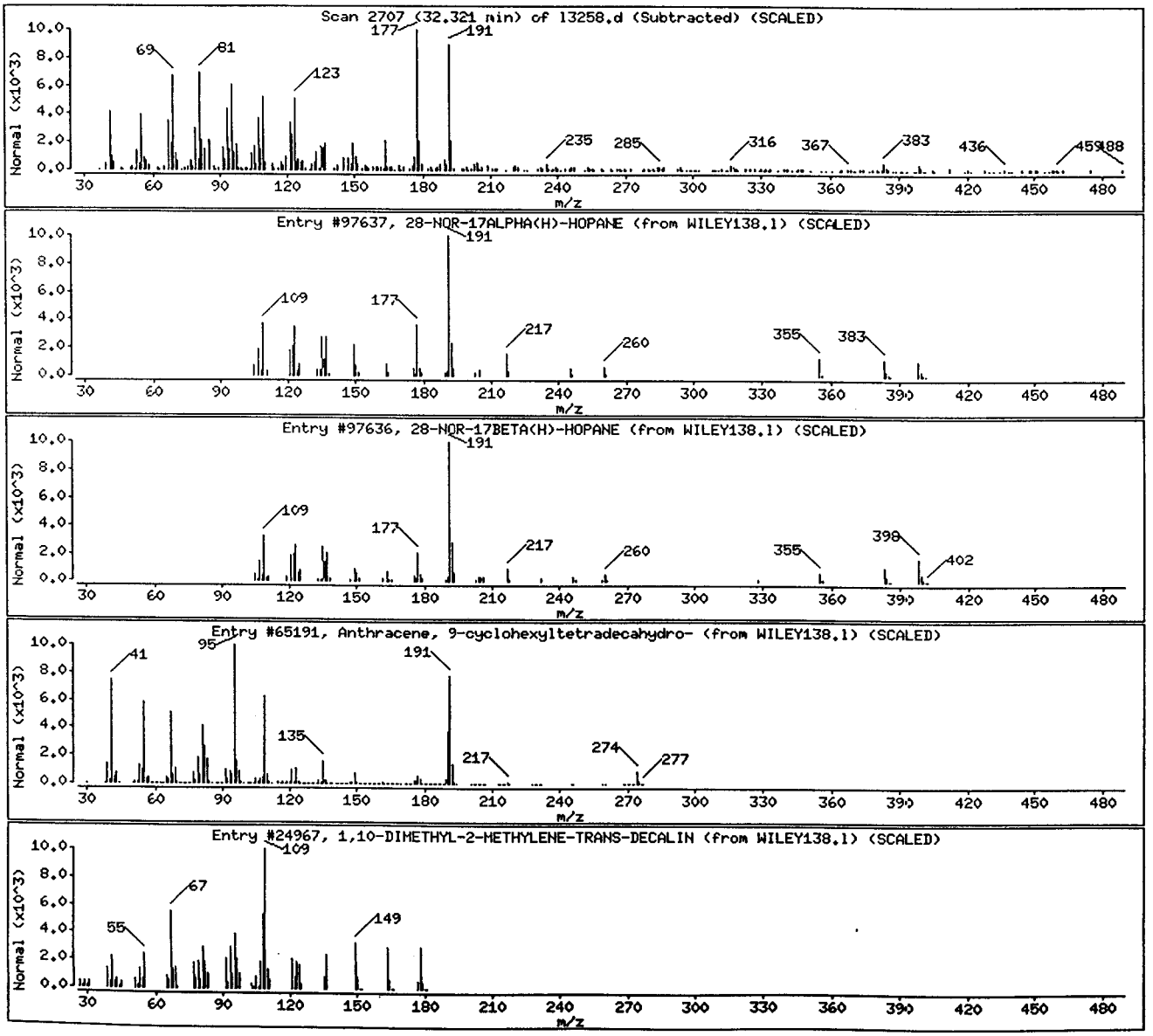
Sample Info: 237829;30;2;1;40.4

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
28-NOR-17ALPHA(H)-HOPANE	53584-60-4	WILEY138.l	97637	62	C29H50	398
28-NOR-17BETA(H)-HOPANE	36728-72-0	WILEY138.l	97636	50	C29H50	398
Anthracene, 9-cyclohexyltetradecahydro-	55255-70-4	WILEY138.l	65191	46	C20H34	274
1,10-DIMETHYL-2-METHYLENE-TRANS-DECALIN	90548-12-2	WILEY138.l	24967	42	C13H22	178



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Instrument: BNAMS7.i

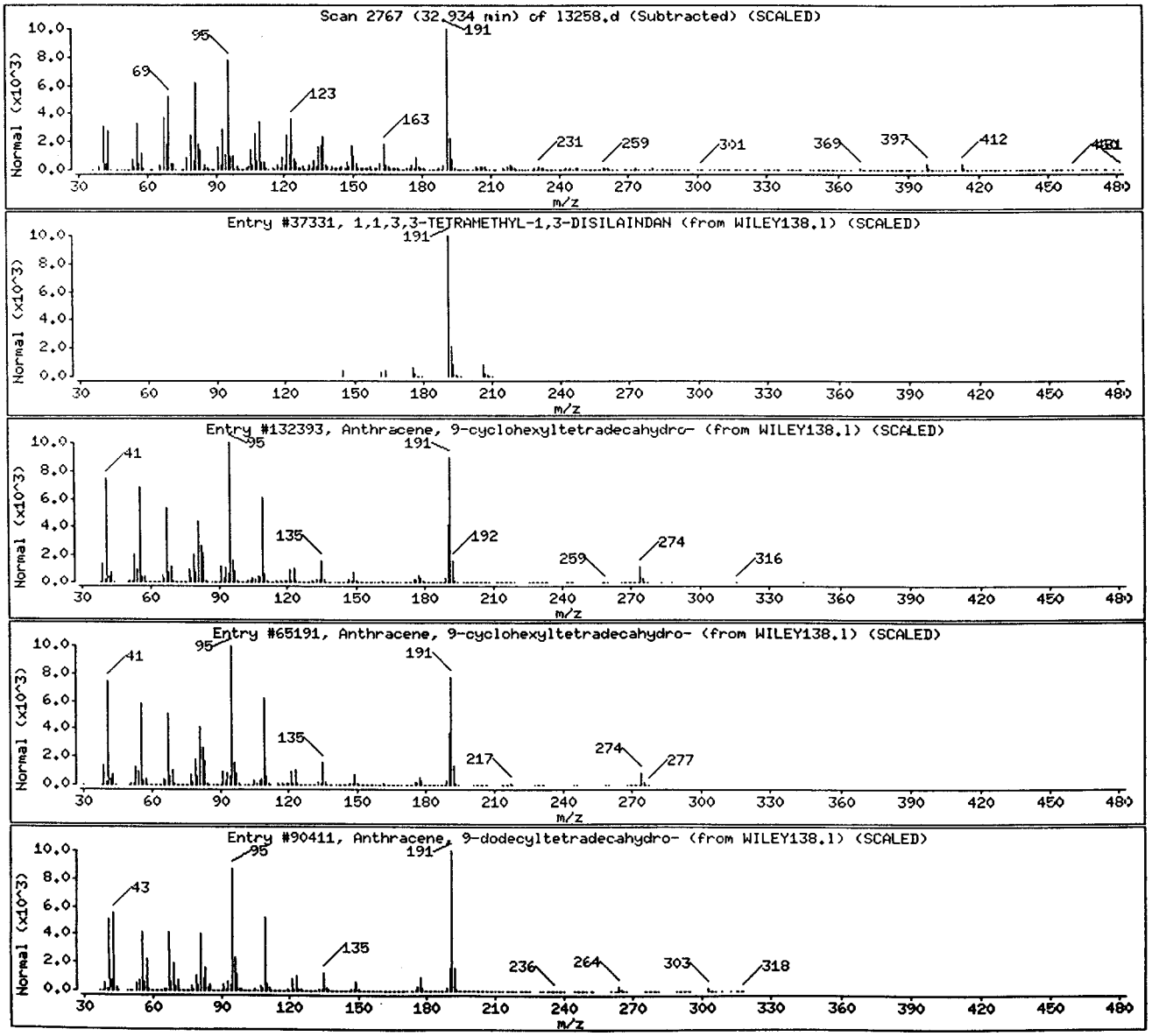
Sample Info: 237829;30;2;1;40.4

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,1,3,3-TETRAMETHYL-1,3-DISILAINDAN	54113-93-8	WILEY138.l	37331	80	C11H18Si2	206
Anthracene, 9-cyclohexyltetradecahydro-	55255-70-4	WILEY138.l	132393	43	C20H34	274
Anthracene, 9-cyclohexyltetradecahydro-	55255-70-4	WILEY138.l	65191	43	C20H34	274
Anthracene, 9-dodecyltetradecahydro-	55401-75-7	WILEY138.l	90411	42	C26H48	360



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Instrument: BNAMS7.i

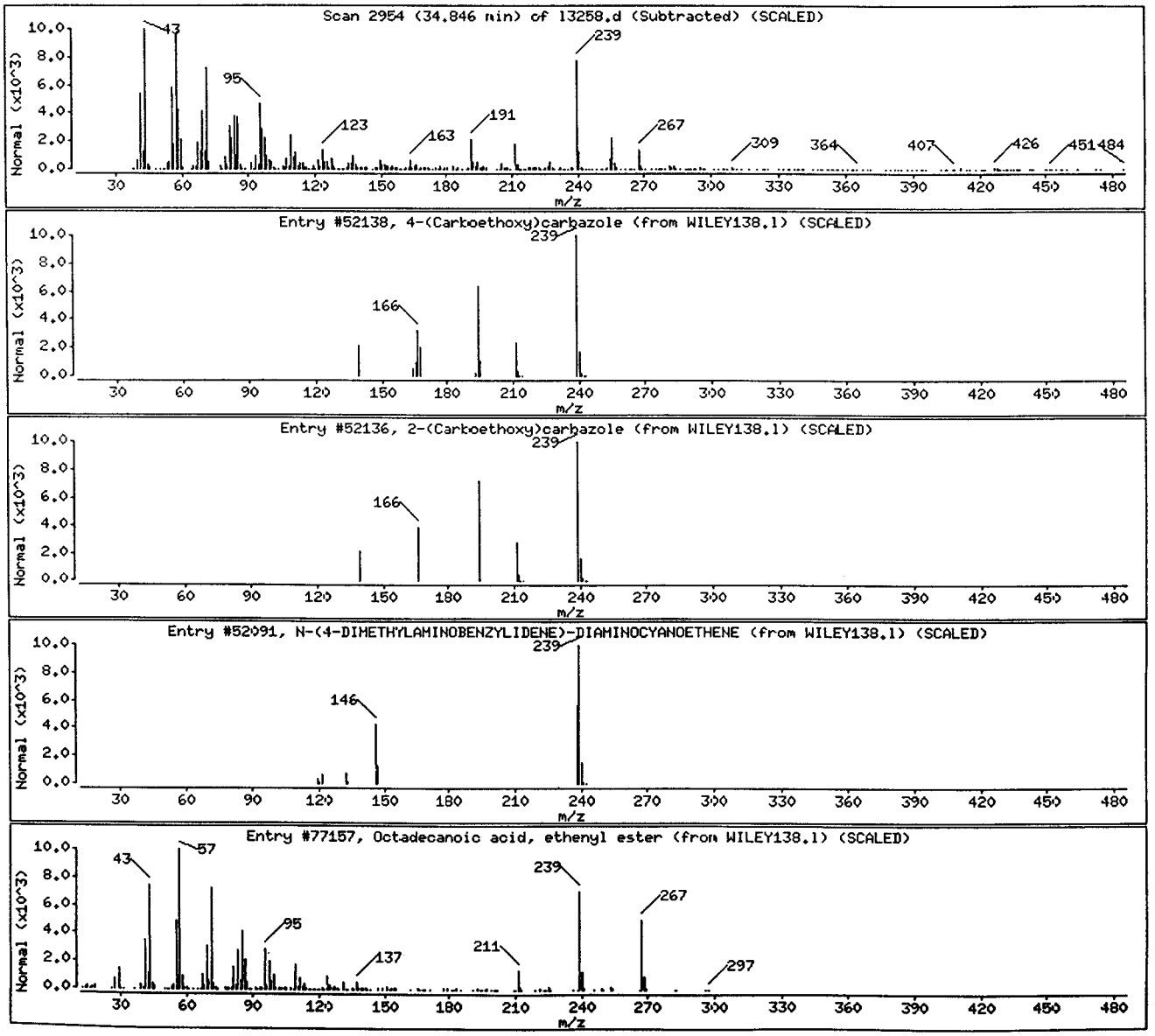
Sample Info: 237829;30;2;1;40.4

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
4-(Carboethoxy)carbazole	82408-84-2	WILEY138.l	52138	58	C15H13NO2	239
2-(Carboethoxy)carbazole	82408-83-1	WILEY138.l	52136	58	C15H13NO2	239
N-(4-DIMETHYLAMINOBENZYLIDENE)-DIAMINOCY	74900-42-8	WILEY138.l	52091	53	C13H13N5	239
Octadecanoic acid, ethenyl ester	111-63-7	WILEY138.l	77157	53	C20H38O2	310



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Instrument: BNAMS7.i

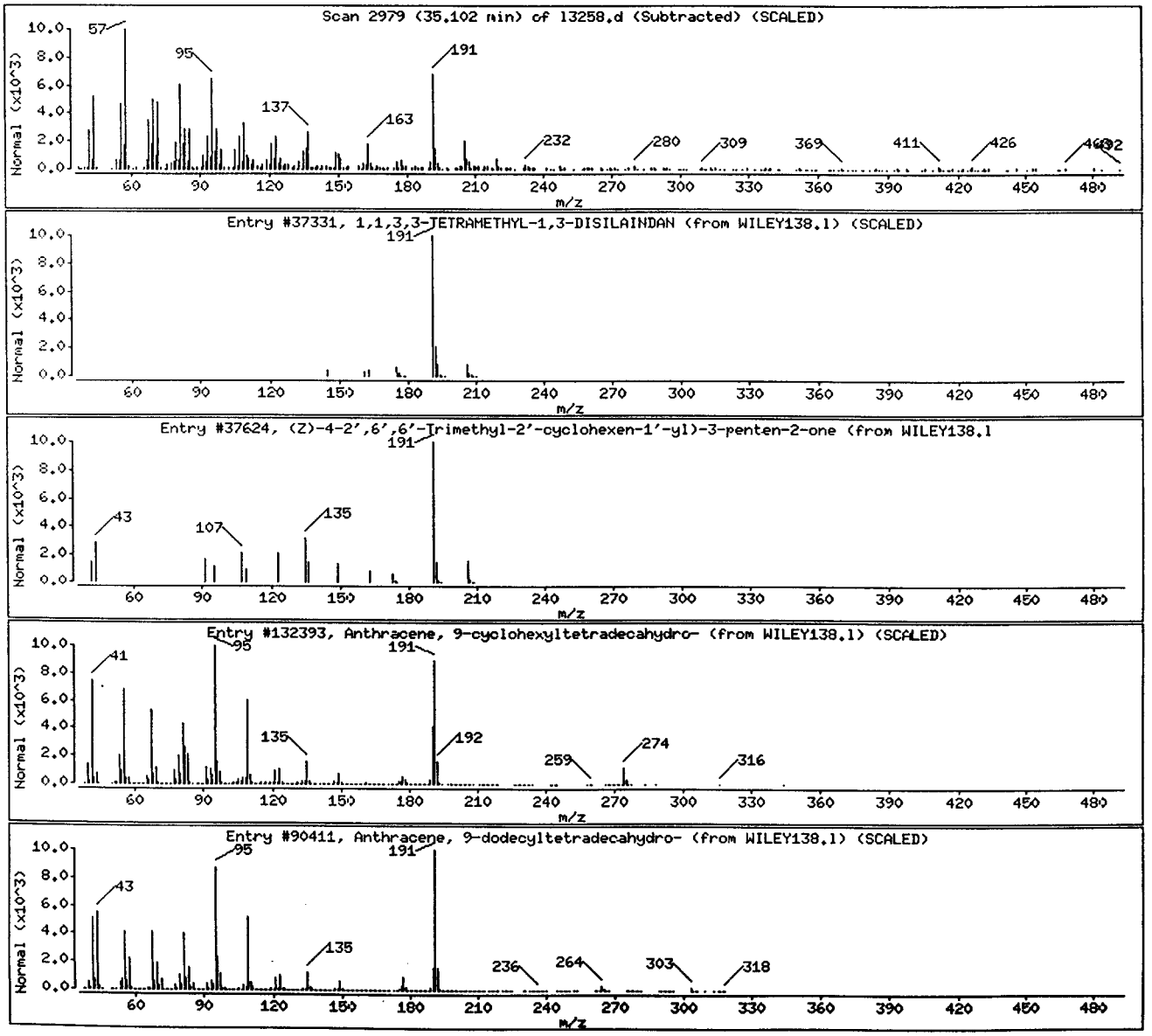
Sample Info: 237829;30;2;1;40.4

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,1,3,3-TETRAMETHYL-1,3-DISILAINDAN	54113-93-8	WILEY138.l	37331	58	C11H18Si2	206
(Z)-4-2',6',6'-Trimethyl-2'-cyclohexen-1	93175-79-2	WILEY138.l	37624	41	C14H220	206
Anthracene, 9-cyclohexyltetradecahydro-	55255-70-4	WILEY138.l	132393	38	C20H34	274
Anthracene, 9-dodecyltetradecahydro-	55401-75-7	WILEY138.l	90411	38	C26H48	360



Client ID: Field_Blank-1026
Site: Rexam DSI

Lab Sample No: 237831
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa2514.d

Matrix: WATER
Level: LOW
Sample Volume: 950 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 625

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
N-Nitrosodimethylamine	ND	0.5
bis(2-Chloroethyl)ether	ND	1.2
1,3-Dichlorobenzene	ND	0.6
1,4-Dichlorobenzene	ND	0.6
1,2-Dichlorobenzene	ND	0.6
bis(2-chloroisopropyl)ether	ND	1.1
N-Nitroso-di-n-propylamine	ND	0.9
Hexachloroethane	ND	0.7
Nitrobenzene	ND	0.9
Isophorone	ND	0.9
bis(2-Chloroethoxy)methane	ND	1.0
1,2,4-Trichlorobenzene	ND	0.6
Naphthalene	ND	0.8
Hexachlorobutadiene	ND	0.6
Hexachlorocyclopentadiene	ND	1.0
2-Chloronaphthalene	ND	0.8
Dimethylphthalate	ND	0.5
Acenaphthylene	ND	0.5
2,6-Dinitrotoluene	ND	0.7
Acenaphthene	ND	0.6
2,4-Dinitrotoluene	ND	0.6
Diethylphthalate	ND	0.4
4-Chlorophenyl-phenylether	ND	0.6
Fluorene	ND	0.8
N-Nitrosodiphenylamine	ND	0.6
4-Bromophenyl-phenylether	ND	1.3
Hexachlorobenzene	ND	0.6
Phenanthrene	ND	0.5
Anthracene	ND	0.3
Di-n-butylphthalate	ND	0.5
Fluoranthene	ND	0.5
Pyrene	ND	0.6
Benzidine	ND	14
Butylbenzylphthalate	ND	0.7

Client ID: **Field_Blank-1026**
Site: Rexam DSI

Lab Sample No: 237831
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa2514.d

Matrix: WATER
Level: LOW
Sample Volume: 950 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 625

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
3,3'-Dichlorobenzidine	ND	5.0
Benzo(a)anthracene	ND	0.4
Chrysene	ND	0.7
bis(2-Ethylhexyl)phthalate	ND	2.1
Di-n-octylphthalate	ND	0.3
Benzo(b)fluoranthene	ND	0.4
Benzo(k)fluoranthene	ND	0.7
Benzo(a)pyrene	ND	0.3
Indeno(1,2,3-cd)pyrene	ND	0.5
Dibenz(a,h)anthracene	ND	0.3
Benzo(g,h,i)perylene	ND	0.5

Client ID: Field_Blank-1026
Site: Rexam DSI

Lab Sample No: 237831
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa2514.d

Matrix: WATER
Level: LOW
Sample Volume: 950 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 625

	COMPOUND NAME	RT	EST. CONC. ug/l	Q
1.	NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION	0.0

Data File: /chem/BNAMS8.i/625/10-24-00/31oct00.b/aa2514.d
Report Date: 31-Oct-2000 12:14

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS8.i/625/10-24-00/31oct00.b/aa2514.d
Lab Smp Id: 237831 Client Smp ID: Field_Blank-1026
Inj Date : 31-OCT-2000 11:30
Operator : BNAMS 1 Inst ID: BNAMS8.i
Smp Info : 237831;950;2;1
Misc Info : F104;PPBN+15;5891;140
Comment :
Method : /chem/BNAMS8.i/625/10-24-00/31oct00.b/BNA625b.m
Meth Date : 31-Oct-2000 10:53 zhang Quant Type: ISTD
Cal Date : 24-OCT-2000 17:30 Cal File: aa2381.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPBNb.sub
Target Version: 3.50
Processing Host: hpd1

LZ JL

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

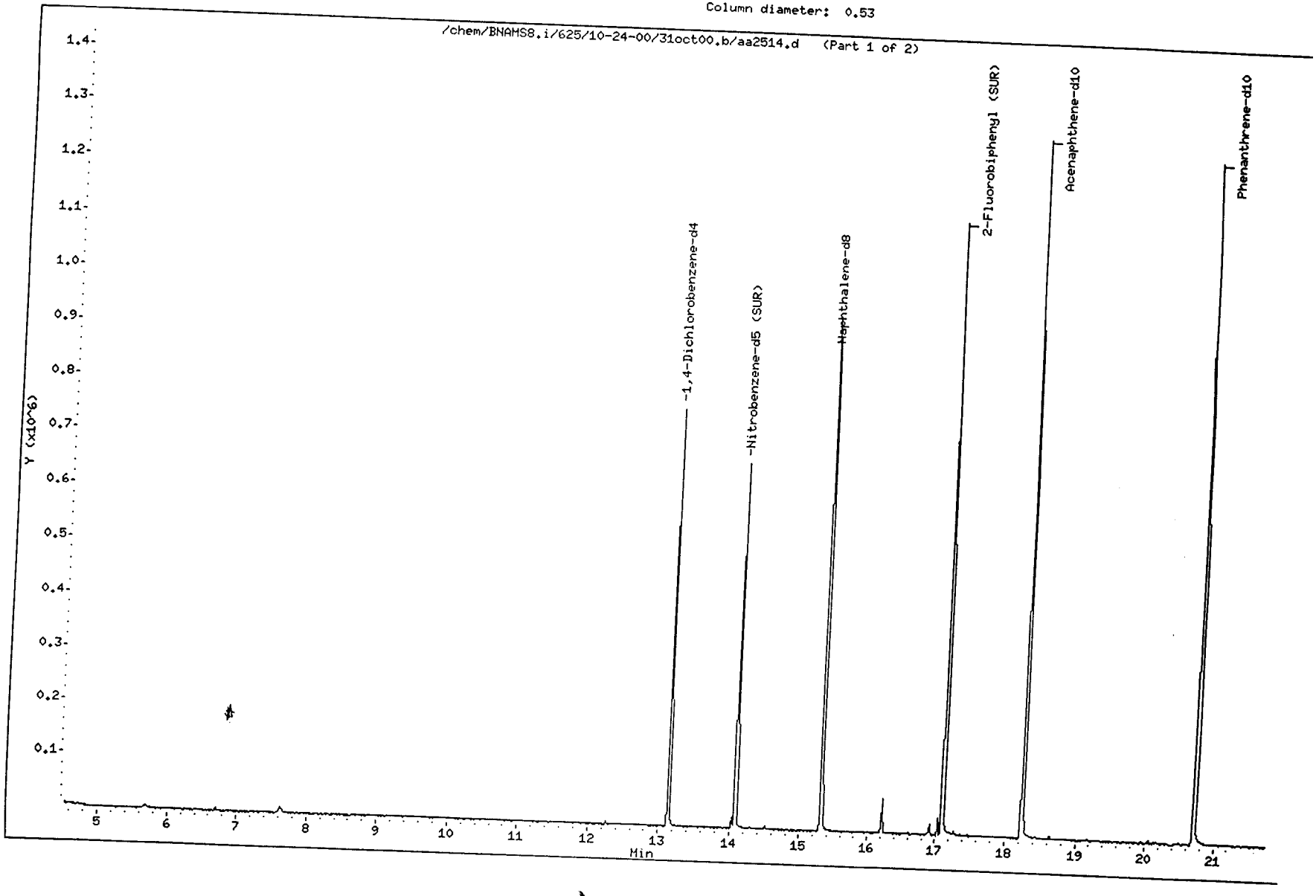
Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2.00000	Volume of final extract (mL)
Vo	950.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
* 79 1,4-Dichlorobenzene-d4	152	13.134	13.133	(1.000)	151812	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	14.085	14.095	(0.920)	277259	41.3700	87
* 80 Naphthalene-d8	136	15.313	15.313	(1.000)	641025	40.0000	
$ 77 2-Fluorobiphenyl (SUR)	172	17.094	17.104	(0.937)	480006	44.1525	93
* 82 Acenaphthene-d10	164	18.240	18.250	(1.000)	387093	40.0000	
* 83 Phenanthrene-d10	188	20.706	20.716	(1.000)	722467	40.0000	
$ 78 Terphenyl-d14 (SUR)	244	23.326	23.336	(0.928)	640844	47.1203	99
* 81 Chrysene-d12	240	25.147	25.168	(1.000)	577062	40.0000	
* 84 Perylene-d12	264	28.821	28.841	(1.000)	570975	40.0000	

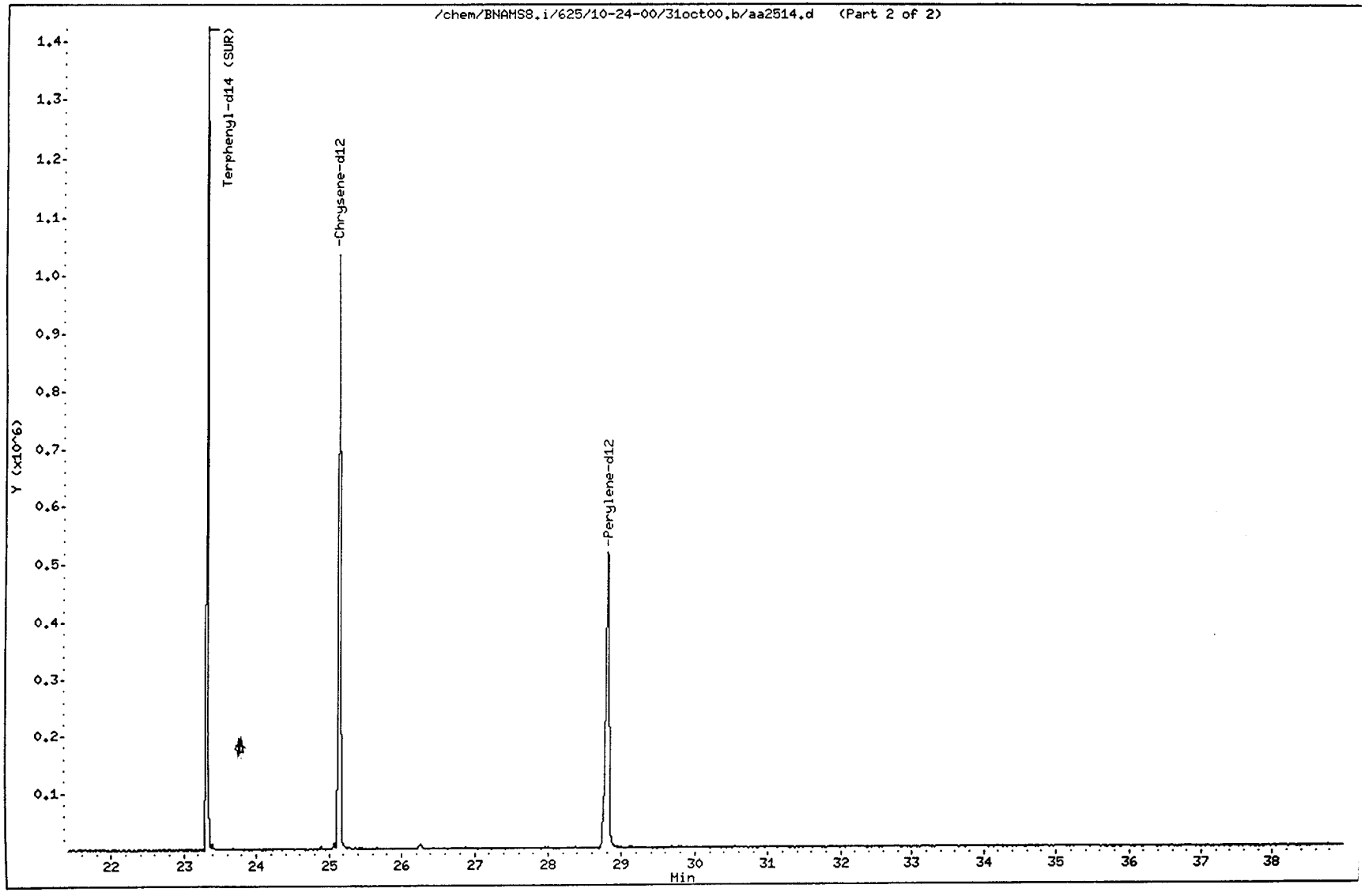
Data File: /chem/BNAMS8.i/625/10-24-00/31oct00.b/aa2514.d
Date : 31-OCT-2000 11:30
Client ID: Field_Blank-1026
Sample Info: 237831;950;2;1
Purge Volume: 950.0
Column phase: DB-5

Instrument: BNAMS8.i
Operator: BNAMS 1
Column diameter: 0.53



Data File: /chem/BNAMS8.i/625/10-24-00/31oct00.b/aa2514.d
Date : 31-OCT-2000 11:30
Client ID: Field_Blank-1026
Sample Info: 237831;950;2;1
Purge Volume: 950.0
Column phase: DB-5

Instrument: BNAMS8.i
Operator: BNAMS 1
Column diameter: 0.53



Client ID: EB-4_16-16.5
Site: Rexam DSI

Lab Sample No: 237839
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3270.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 8

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
N-Nitrosodimethylamine	ND	360
bis(2-Chloroethyl)ether	ND	36
1,3-Dichlorobenzene	ND	360
1,4-Dichlorobenzene	ND	360
1,2-Dichlorobenzene	ND	360
bis(2-chloroisopropyl)ether	ND	360
N-Nitroso-di-n-propylamine	ND	36
Hexachloroethane	ND	36
Nitrobenzene	ND	36
Isophorone	ND	360
bis(2-Chloroethoxy)methane	ND	360
1,2,4-Trichlorobenzene	ND	36
Naphthalene	16 J	360
Hexachlorobutadiene	ND	72
Hexachlorocyclopentadiene	ND	360
2-Chloronaphthalene	ND	360
Dimethylphthalate	ND	360
Acenaphthylene	33 J	360
2,6-Dinitrotoluene	ND	72
Acenaphthene	7.8J	360
2,4-Dinitrotoluene	ND	72
Diethylphthalate	ND	360
4-Chlorophenyl-phenylether	ND	360
Fluorene	12 J	360
N-Nitrosodiphenylamine	ND	360
4-Bromophenyl-phenylether	ND	360
Hexachlorobenzene	ND	36
Phenanthrene	110 J	360
Anthracene	32 J	360
Di-n-butylphthalate	ND	360
Fluoranthene	190 J	360
Pyrene	230 J	360
Benzidine	ND	1400
Butylbenzylphthalate	ND	360

Client ID: EB-4_16-16.5
Site: Rexam DSI

Lab Sample No: 237839
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3270.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 8

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
3,3'-Dichlorobenzidine	ND	720
Benzo(a)anthracene	120	36
Chrysene	160 J	360
bis(2-Ethylhexyl)phthalate	80 J	360
Di-n-octylphthalate	ND	360
Benzo(b)fluoranthene	180	36
Benzo(k)fluoranthene	74	36
Benzo(a)pyrene	110	36
Indeno(1,2,3-cd)pyrene	39	36
Dibenz(a,h)anthracene	ND	36
Benzo(g,h,i)perylene	31 J	360

Client ID: EB-4_16-16.5
Site: Rexam DSI

Lab Sample No: 237839
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3270.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 7.8

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. Unknown Alkane	23.35	350	
2. Unknown Alkane	23.51	460	
3. Unknown Alkane	24.33	710	
4. Unknown Alkane	24.43	370	
5. Unknown Alkane	24.87	450	
6. Unknown	24.90	570	
7. Unknown Alkane	25.11	410	
8. Unknown Alkane	25.53	350	
9. Unknown	26.40	350	
10. Unknown Alkane	26.53	400	
11. Unknown	28.27	390	
12. Unknown	28.68	510	
13. Unknown	28.93	500	
14. Unknown	31.23	470	
15. Unknown	32.61	650	
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 6940

Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/l3270.d
Report Date: 31-Oct-2000 11:18

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS7.i/8270/10-27-00/31oct00.b/l3270.d
Lab Smp Id: 237839 Client Smp ID: EB-4_16-16.5
Inj Date : 31-OCT-2000 10:16
Operator : BNAMS 4 Inst ID: BNAMS7.i
Smp Info : 237839;30;2;1;7.8
Misc Info : F104;PPBN+15;6924;114
Comment :
Method : /chem/BNAMS7.i/8270/10-27-00/31oct00.b/8270C1.m
Meth Date : 31-Oct-2000 06:58 acierno Quant Type: ISTD
Cal Date : 27-OCT-2000 12:29 Cal File: l3224.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPBNb.sub
Target Version: 3.50
Processing Host: hpd1

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	2.00000	Volume of final extract (ml)
Ws	30.00000	Weight of sample extracted (g)
M	7.80000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 79 1,4-Dichlorobenzene-d4	152	13.179	13.180	(1.000)	290376	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	14.130	14.142	(0.920)	561898	44.4594	3200
* 80 Naphthalene-d8	136	15.357	15.358	(1.000)	1221837	40.0000	
31 Naphthalene	128	15.388	15.399	(1.002)	6950	0.22848	16(a)
$ 77 2-Fluorobiphenyl (SUR)	172	17.147	17.158	(0.937)	940101	47.4126	3400
39 Acenaphthylene	152	18.057	18.068	(0.987)	14446	0.46150	33(a)
* 82 Acenaphthene-d10	164	18.292	18.303	(1.000)	729323	40.0000	
42 Acenaphthene	153	18.343	18.364	(1.003)	2123	0.10814	7.8(a)
47 Fluorene	166	19.202	19.213	(1.050)	3810	0.17347	12(a)
* 83 Phenanthrene-d10	188	20.776	20.788	(1.000)	1272456	40.0000	
52 Phenanthrene	178	20.807	20.829	(1.001)	45945	1.47517	110(a)
53 Anthracene	178	20.889	20.911	(1.005)	14080	0.44799	32(a)
56 Fluoranthene	202	22.791	22.802	(1.097)	85640	2.57960	190(a)

Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/l3270.d
Report Date: 31-Oct-2000 11:18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
	57 Pyrene	202	23.169	23.191	(0.917)	98141	3.12597	230(a)
$	78 Terphenyl-d14 (SUR)	244	23.404	23.405	(0.927)	1272634	52.8305	3800
	63 bis(2-Ethylhexyl)phthalate	149	25.173	25.174	(0.997)	33705	1.11396	80(a)
	61 Benzo(a)anthracene	228	25.235	25.236	(0.999)	52806	1.70971	120
*	81 Chrysene-d12	240	25.255	25.266	(1.000)	1185875	40.0000	
	62 Chrysene	228	25.296	25.328	(1.002)	63074	2.19969	160(a)
	65 Benzo(b)fluoranthene	252	27.822	27.833	(0.958)	46206	2.50209	180
	66 Benzo(k)fluoranthene	252	27.873	27.925	(0.960)	22582	1.02569	74(M)
	67 Benzo(a)pyrene	252	28.844	28.866	(0.993)	28638	1.56618	110(M)
*	84 Perylene-d12	264	29.049	29.050	(1.000)	709475	40.0000	
	68 Indeno(1,2,3-cd)pyrene	276	33.507	33.579	(1.153)	9473	0.53775	39(M)
	70 Benzo(g,h,i)perylene	276	34.897	35.042	(1.201)	7804	0.43556	31(aM)

QC Flag Legend

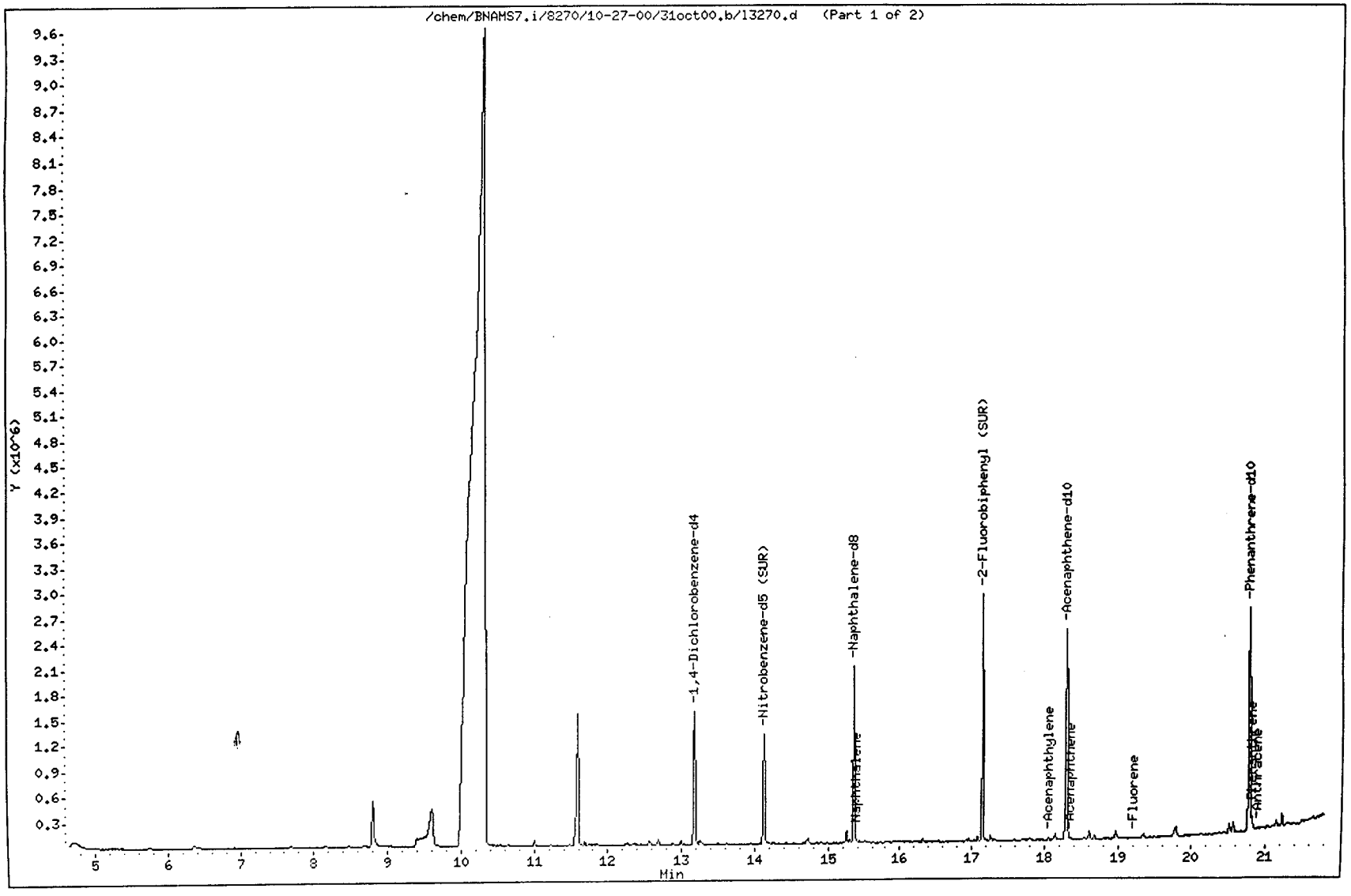
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13270.d
Date : 31-OCT-2000 10:16
Client ID: EB-4_16-16.5
Sample Info: 237839;30;2;1;7.8

Column phase: DB-5

Instrument: BNAMS7.i

Operator: BNAMS 4
Column diameter: 0.25

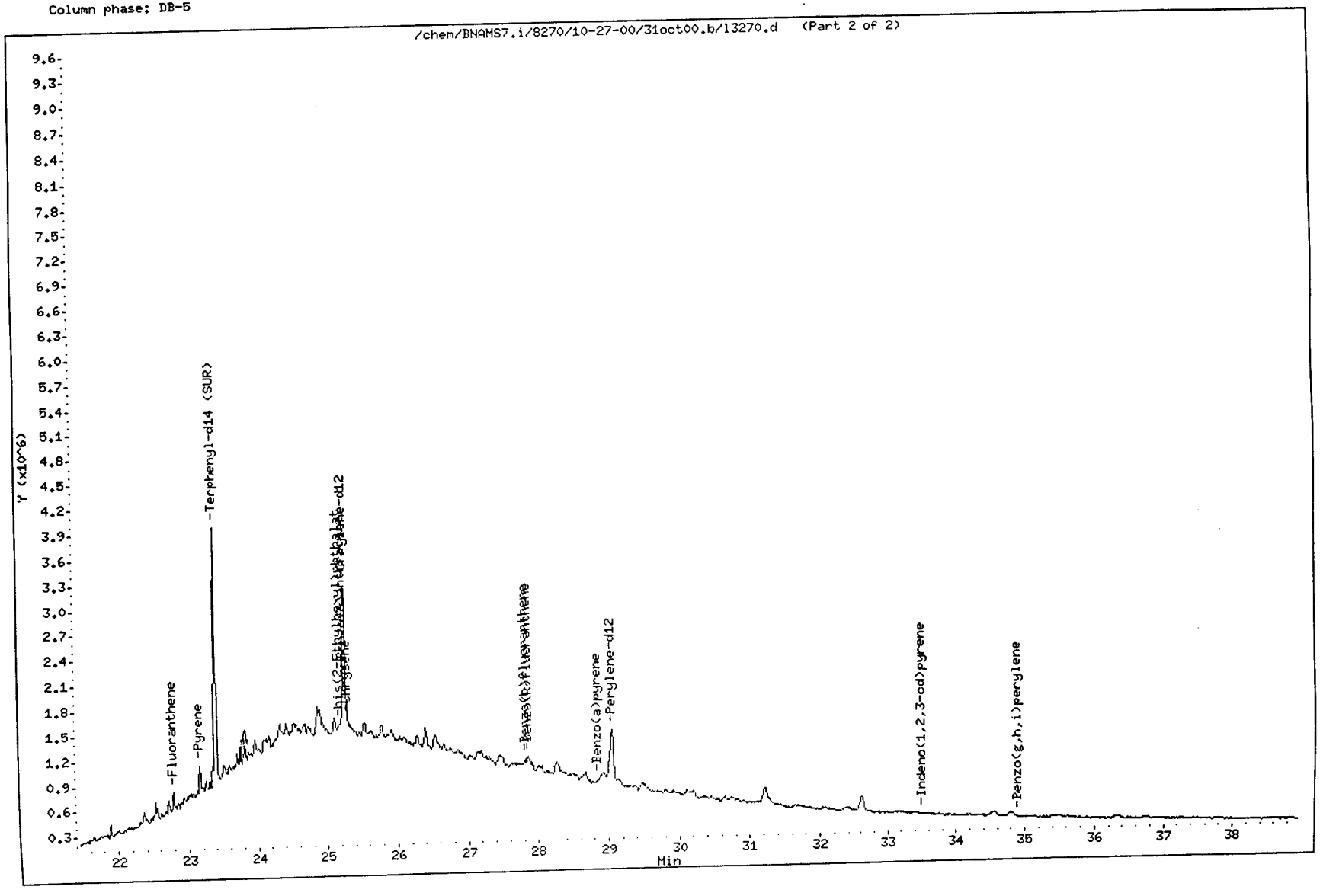


Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13270.d
Date : 31-OCT-2000 10:16
Client ID: EB-4_16-16.5
Sample Info: 237839;30;2;1;7.8

Instrument: BNAMS7.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13270.d

Date : 31-OCT-2000 10:16

Client ID: EB-4_16-16.5

Instrument: BNAMS7.i

Sample Info: 237839;30;2;1;7.8

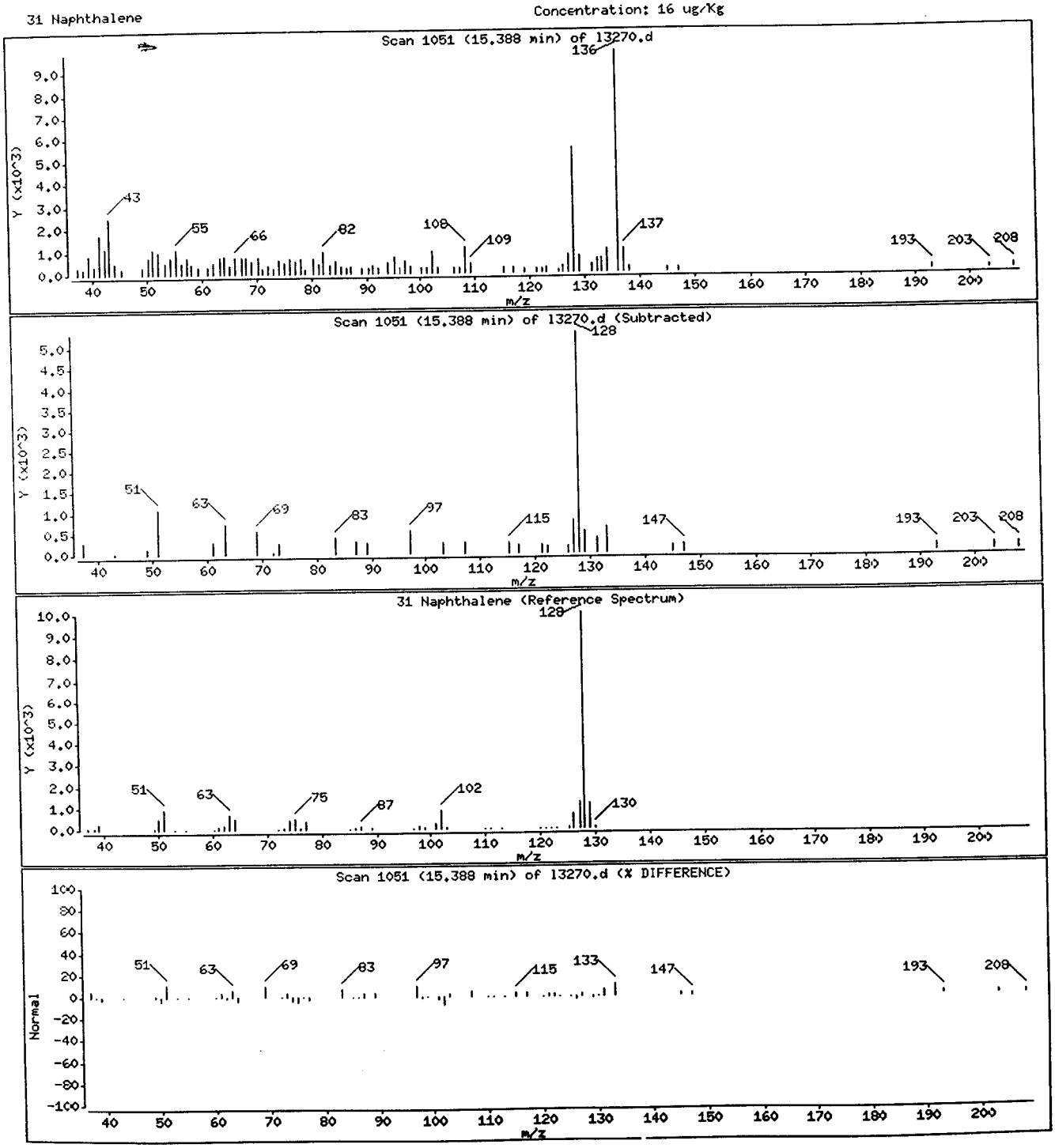
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

31 Naphthalene

Concentration: 16 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13270.d

Date : 31-OCT-2000 10:16

Client ID: EB-4_16-16.5

Instrument: BNAMS7.i

Sample Info: 237839;30;2;1;7.8

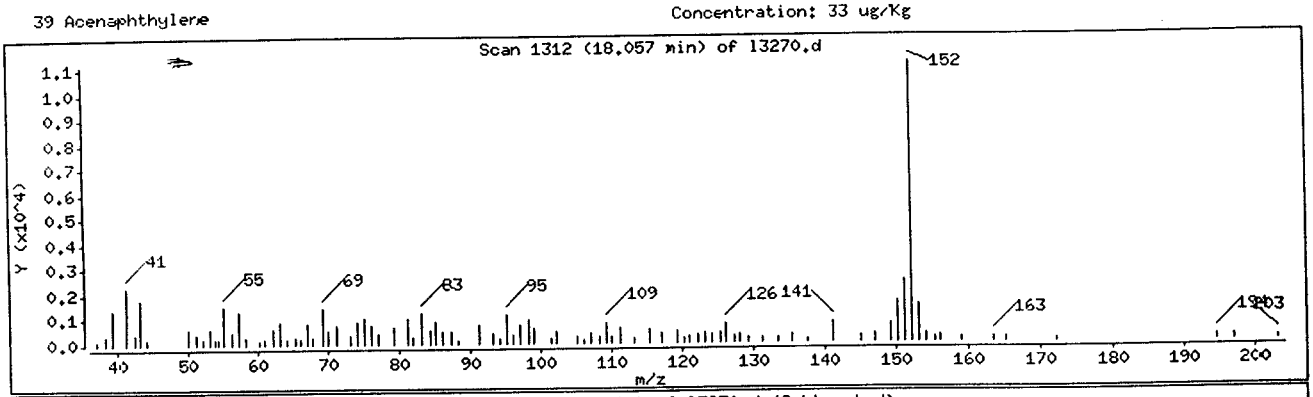
Operator: BNAMS 4

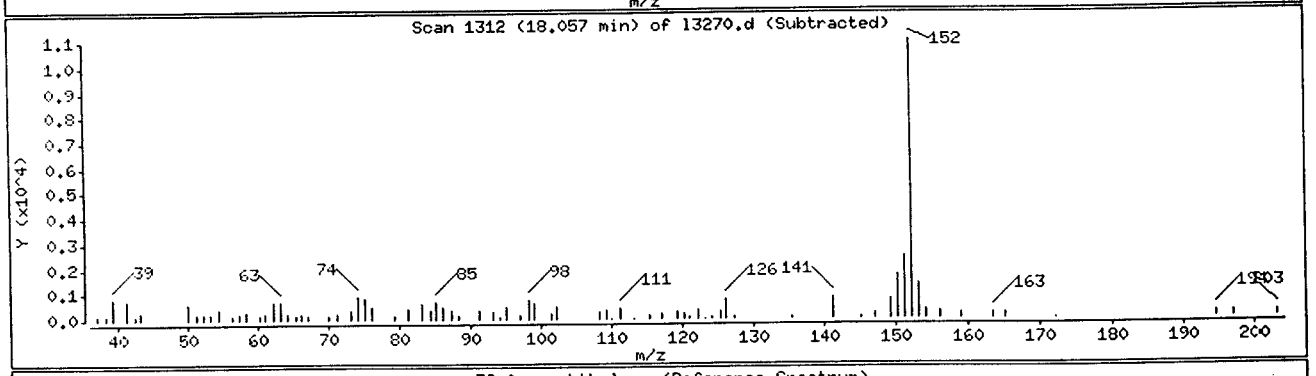
Column phase: DB-5

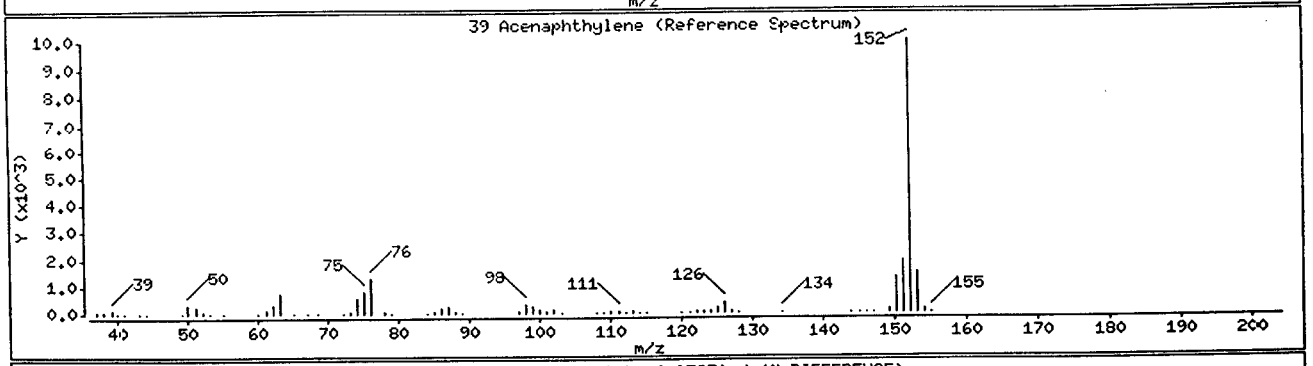
Column diameter: 0.25

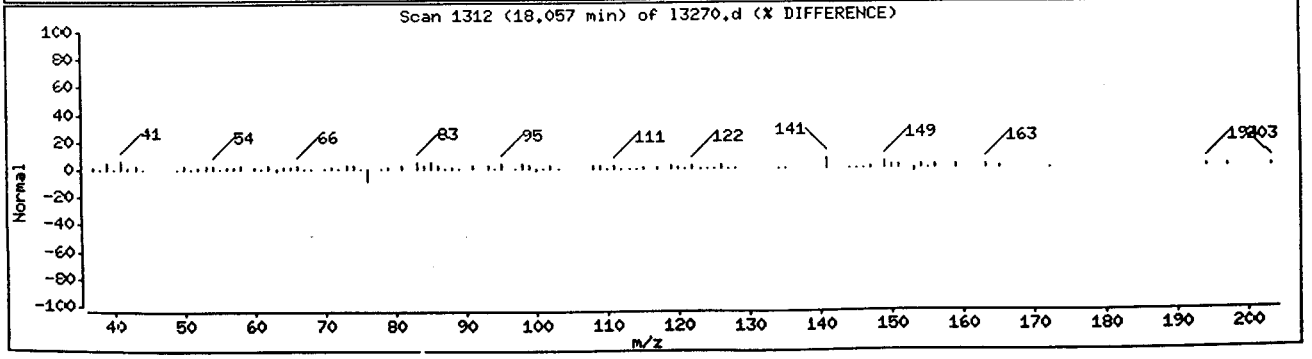
39 Acenaphthylene

Concentration: 33 ug/Kg









Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13270.d

Date : 31-OCT-2000 10:16

Client ID: EB-4_16-16.5

Instrument: BNAMS7.i

Sample Info: 237839;30;2;1;7.8

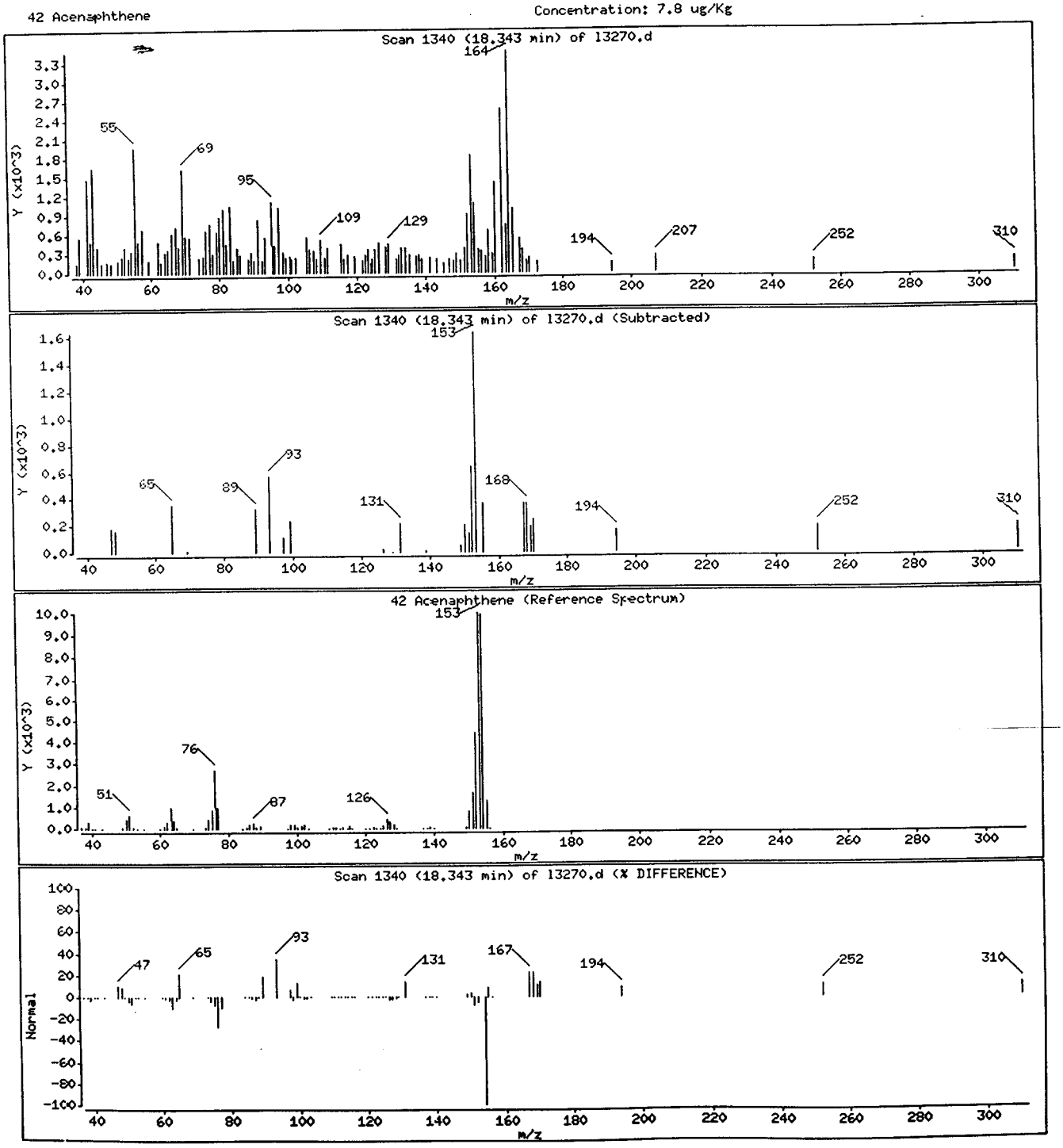
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

42 Acenaphthene

Concentration: 7.8 ug/Kg



Data File: /chem/BNAHS7.i/8270/10-27-00/31oct00.b/13270.d

Date : 31-OCT-2000 10:16

Client ID: EB-4_16-16.5

Instrument: BNAHS7.i

Sample Info: 237839;30;2;1;7.8

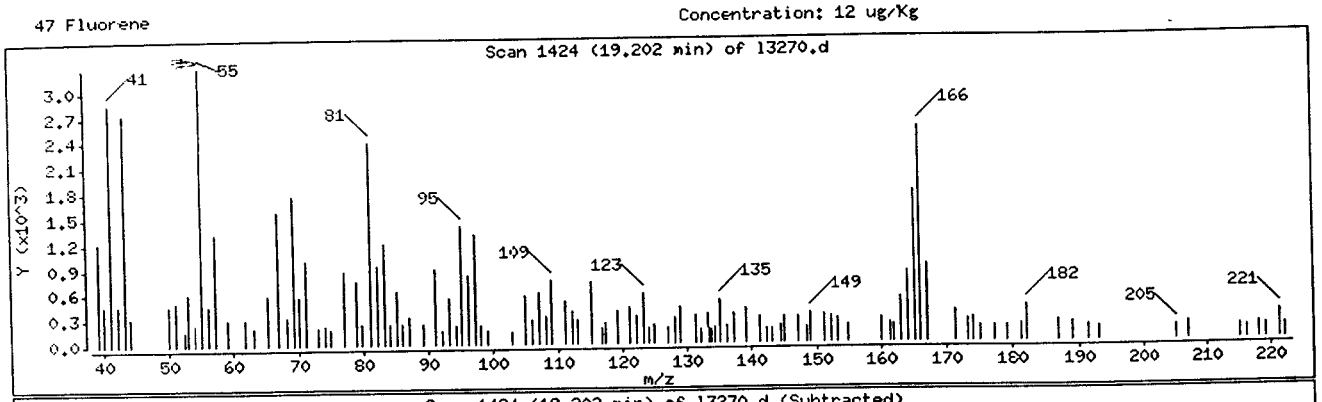
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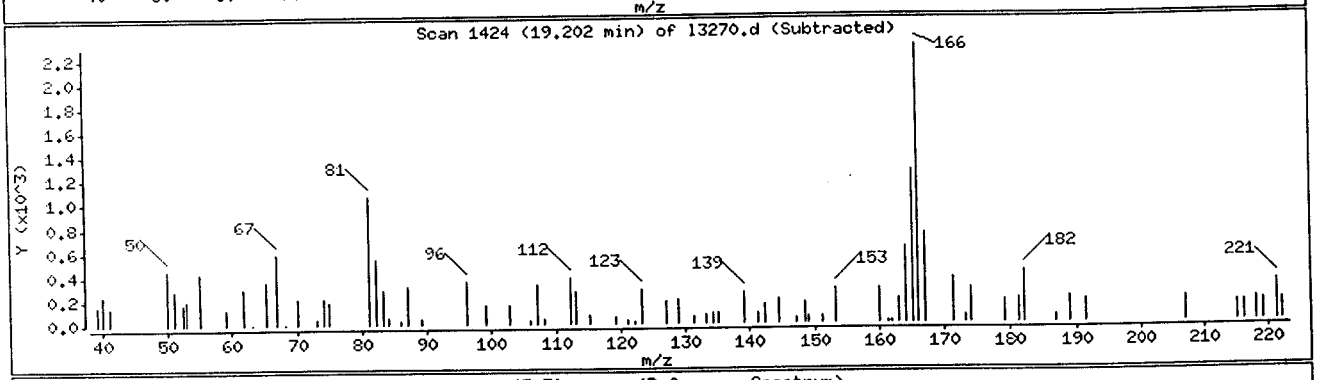
Column phase: DB-5

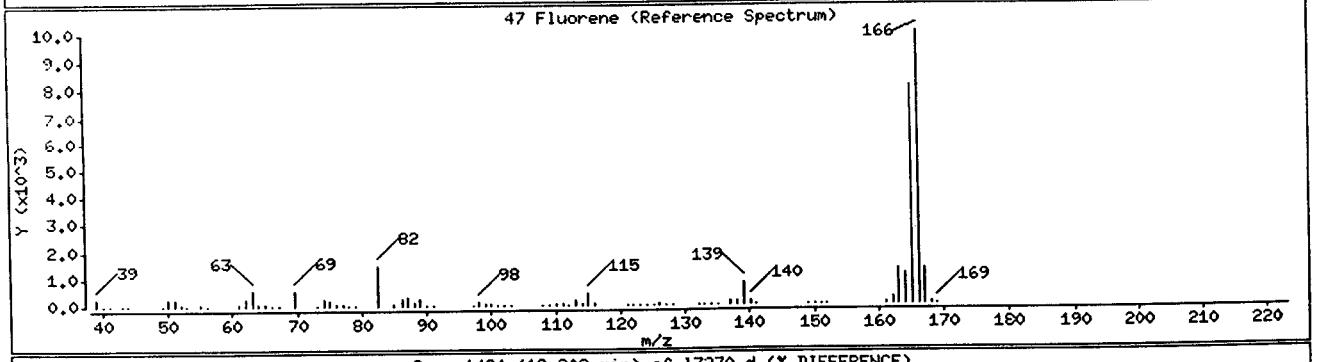
Column diameter: 0.25

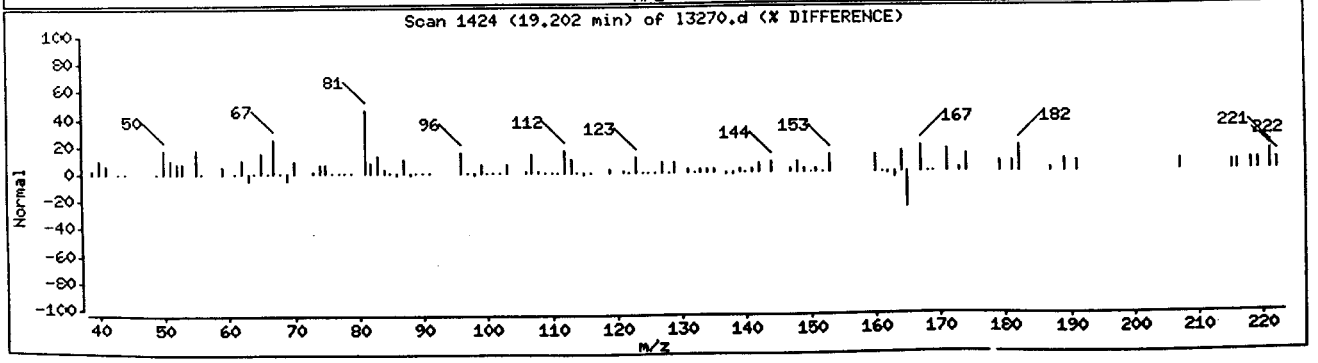
47 Fluorene

Concentration: 12 ug/Kg









Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13270.d

Date : 31-OCT-2000 10:16

Client ID: EB-4_16-16.5

Instrument: BNAMS7.i

Sample Info: 237839;30;2;1;7.8

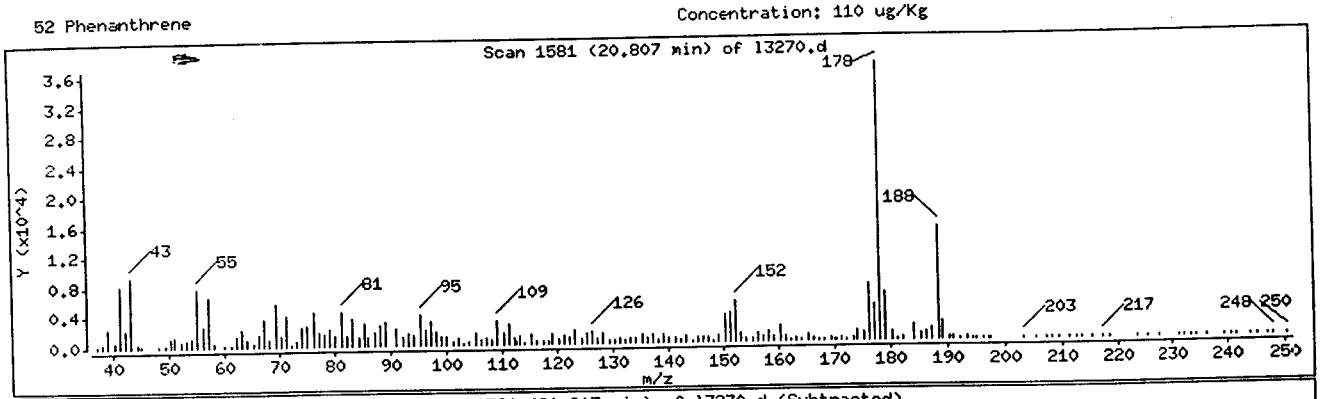
Operator: BNAMS 4

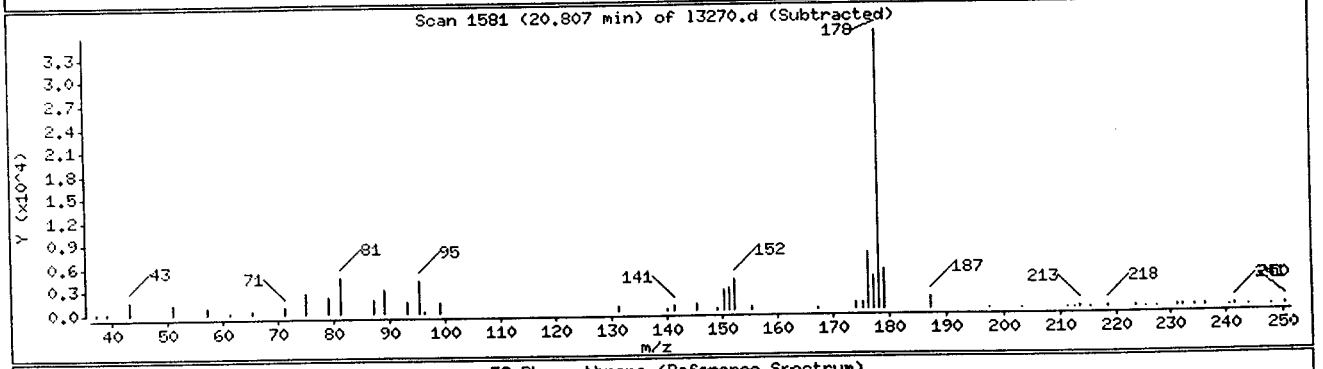
Column phase: DB-5

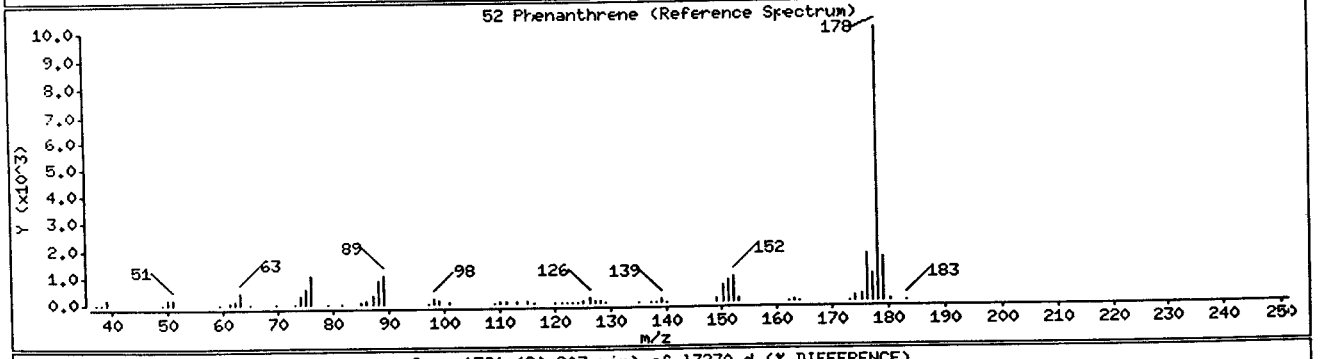
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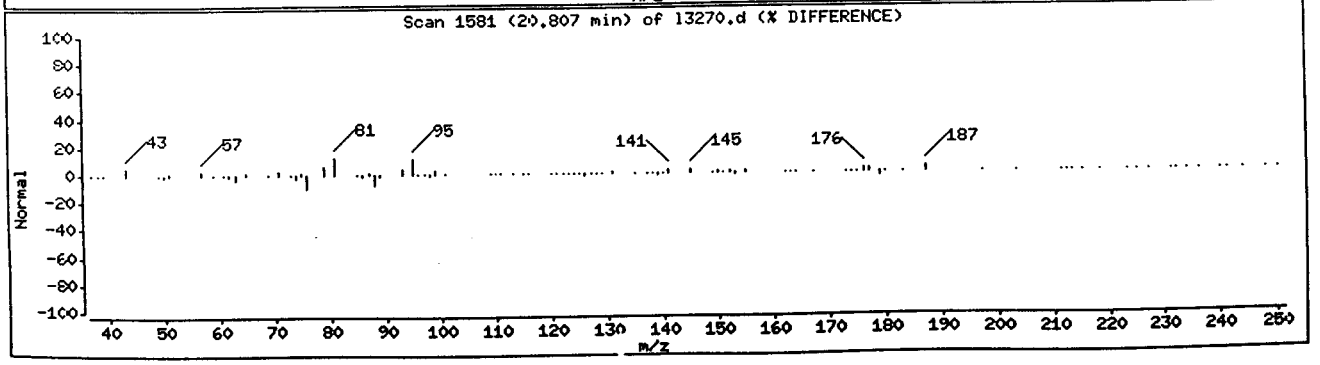
52 Phenanthrene

Concentration: 110 ug/Kg









Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13270.d

Date : 31-OCT-2000 10:16

Client ID: EB-4_16-16.5

Instrument: BNAMS7.i

Sample Info: 237839;30;2;1;7.8

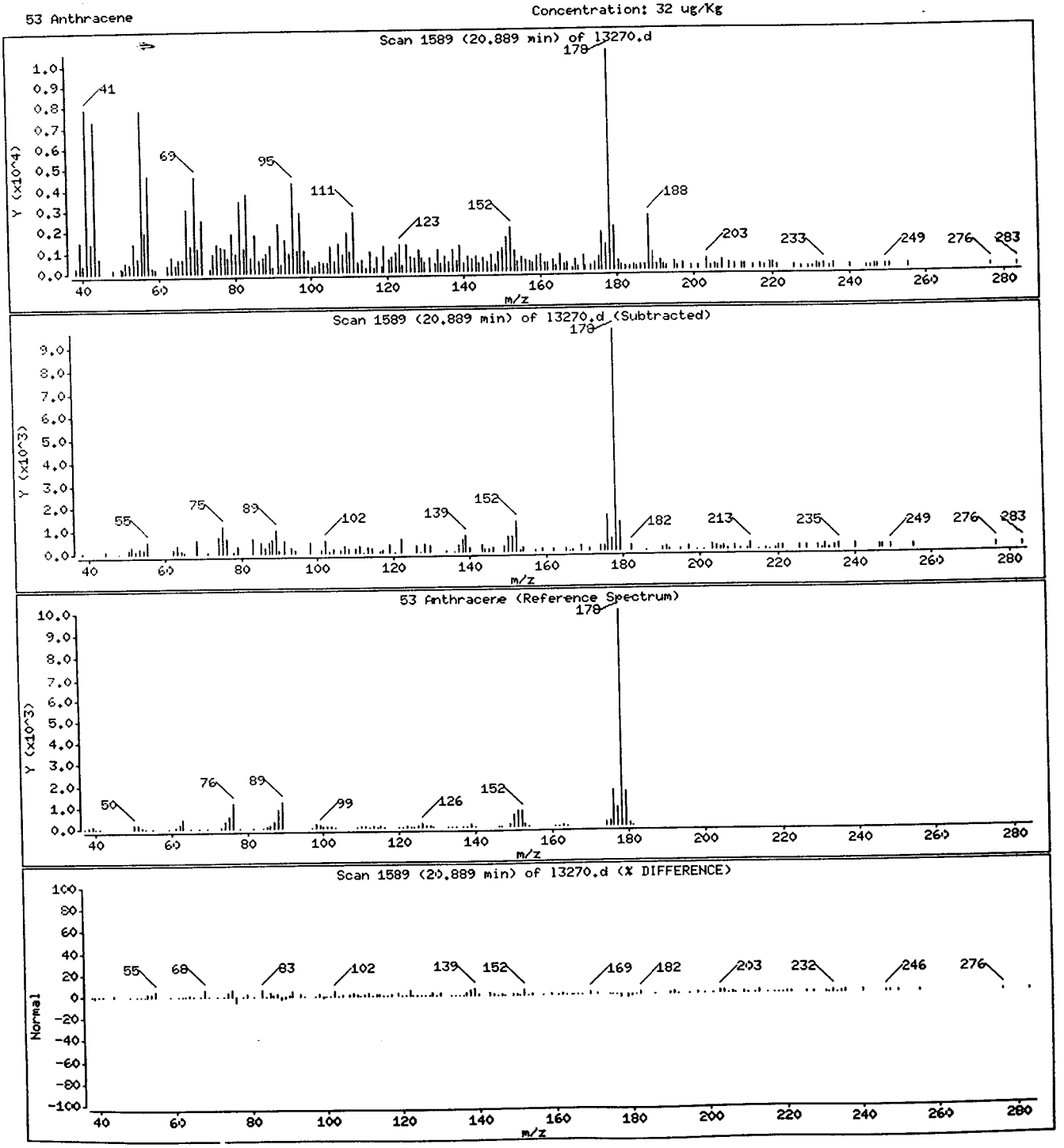
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

53 Anthracene

Concentration: 32 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13270.d

Date : 31-OCT-2000 10:16

Client ID: EB-4_16-16.5

Instrument: BNAMS7.i

Sample Info: 237839;30;2;1;7.8

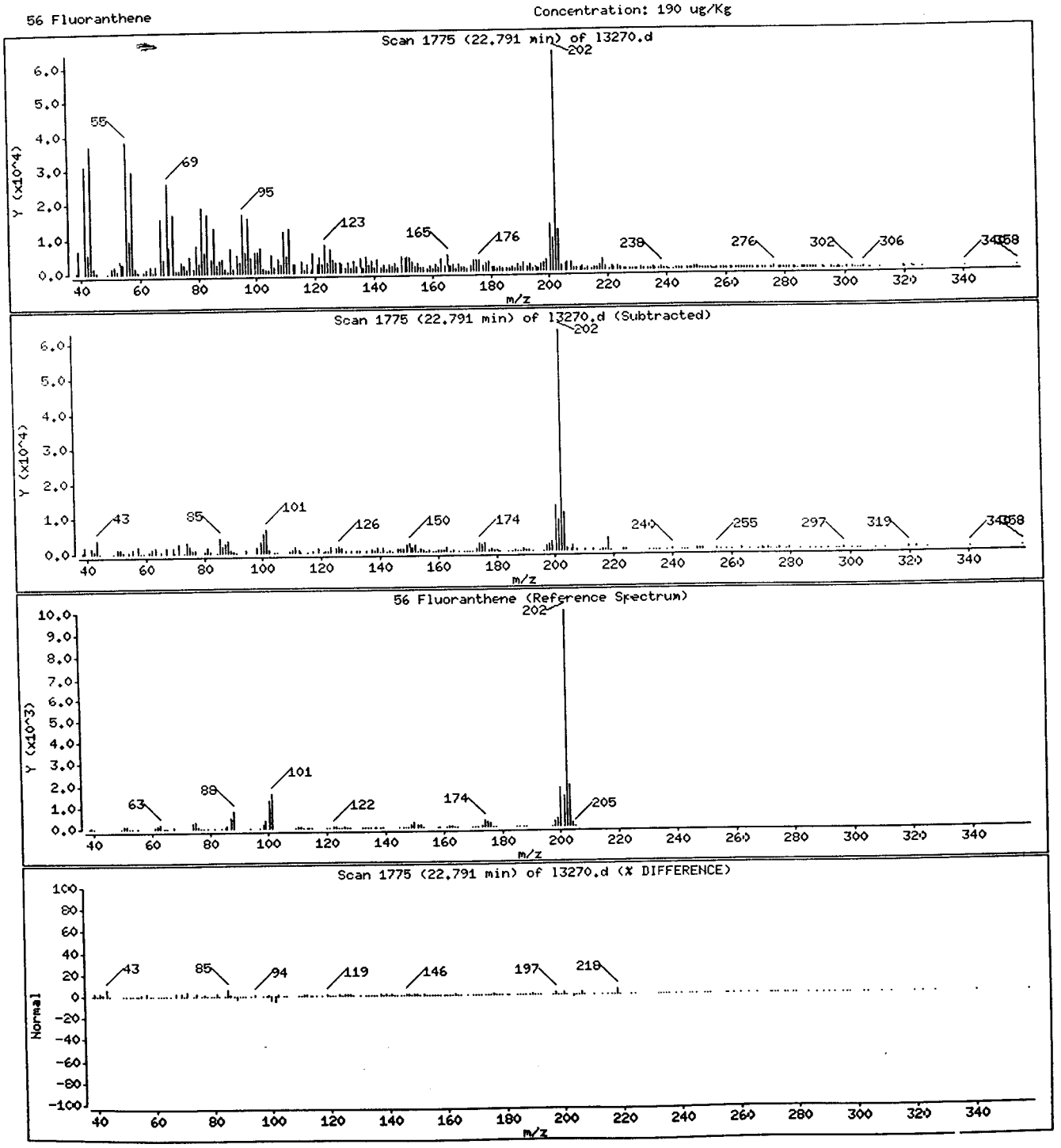
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

56 Fluoranthene

Concentration: 190 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13270.d

Date : 31-OCT-2000 10:16

Client ID: EB-4_16-16.5

Instrument: BNAMS7.i

Sample Info: 237839;30;2;1;7.8

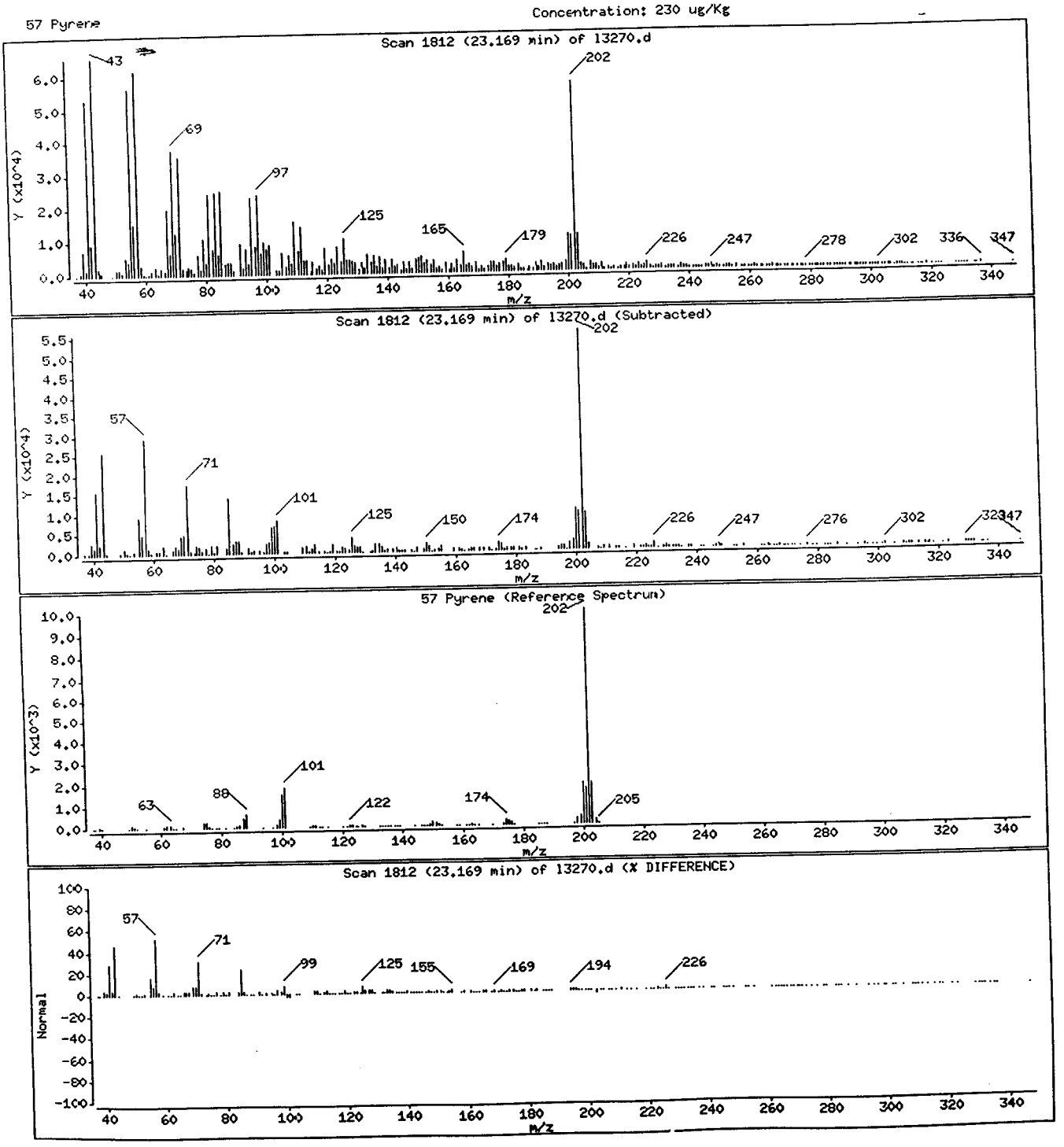
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Concentration: 230 ug/Kg

57 Pyrene



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13270.d

Date : 31-OCT-2000 10:16

Client ID: EB-4_16-16.5

Instrument: BNAMS7.i

Sample Info: 237839;30;2;1;7.8

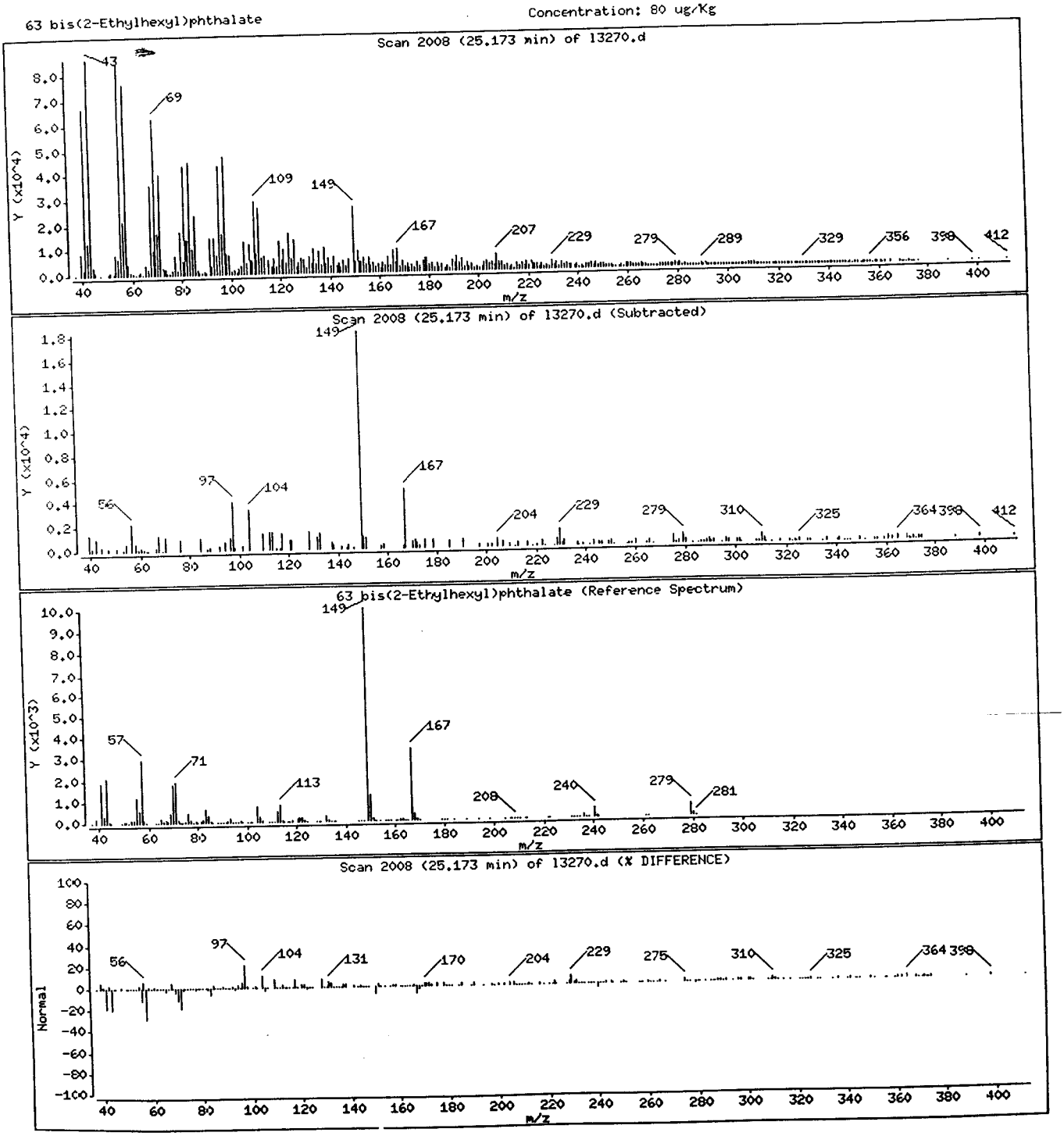
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

63 bis(2-Ethylhexyl)phthalate

Concentration: 80 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13270.d

Date : 31-OCT-2000 10:16

Client ID: EB-4_16-16.5

Instrument: BNAMS7.i

Sample Info: 237839;30;2;1;7.8

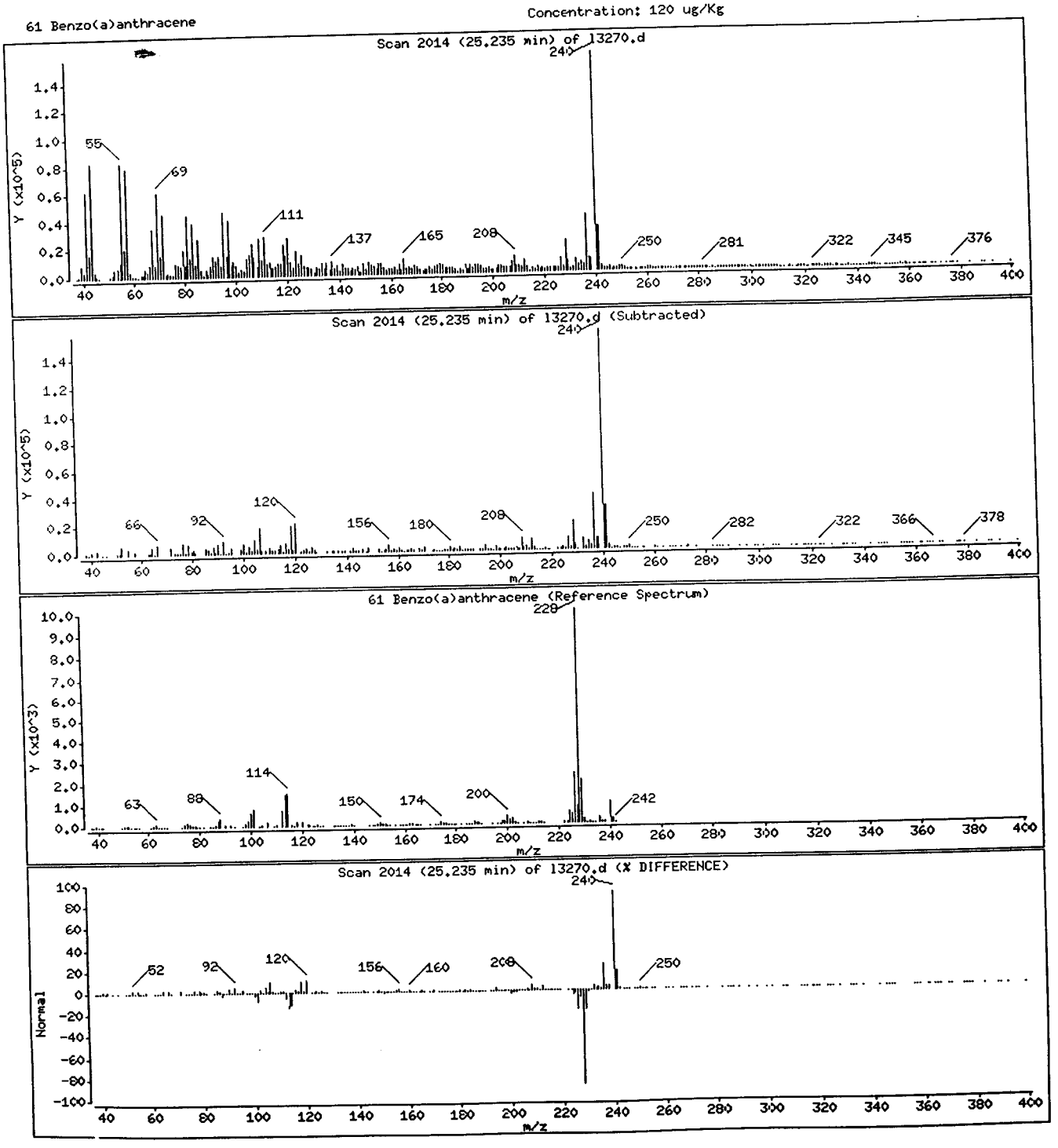
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Concentration: 120 ug/Kg

61 Benzo(a)anthracene



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13270.d

Date : 31-OCT-2000 10:16

Client ID: EB-4_16-16.5

Instrument: BNAMS7.i

Sample Info: 237839;30;2;1;7.8

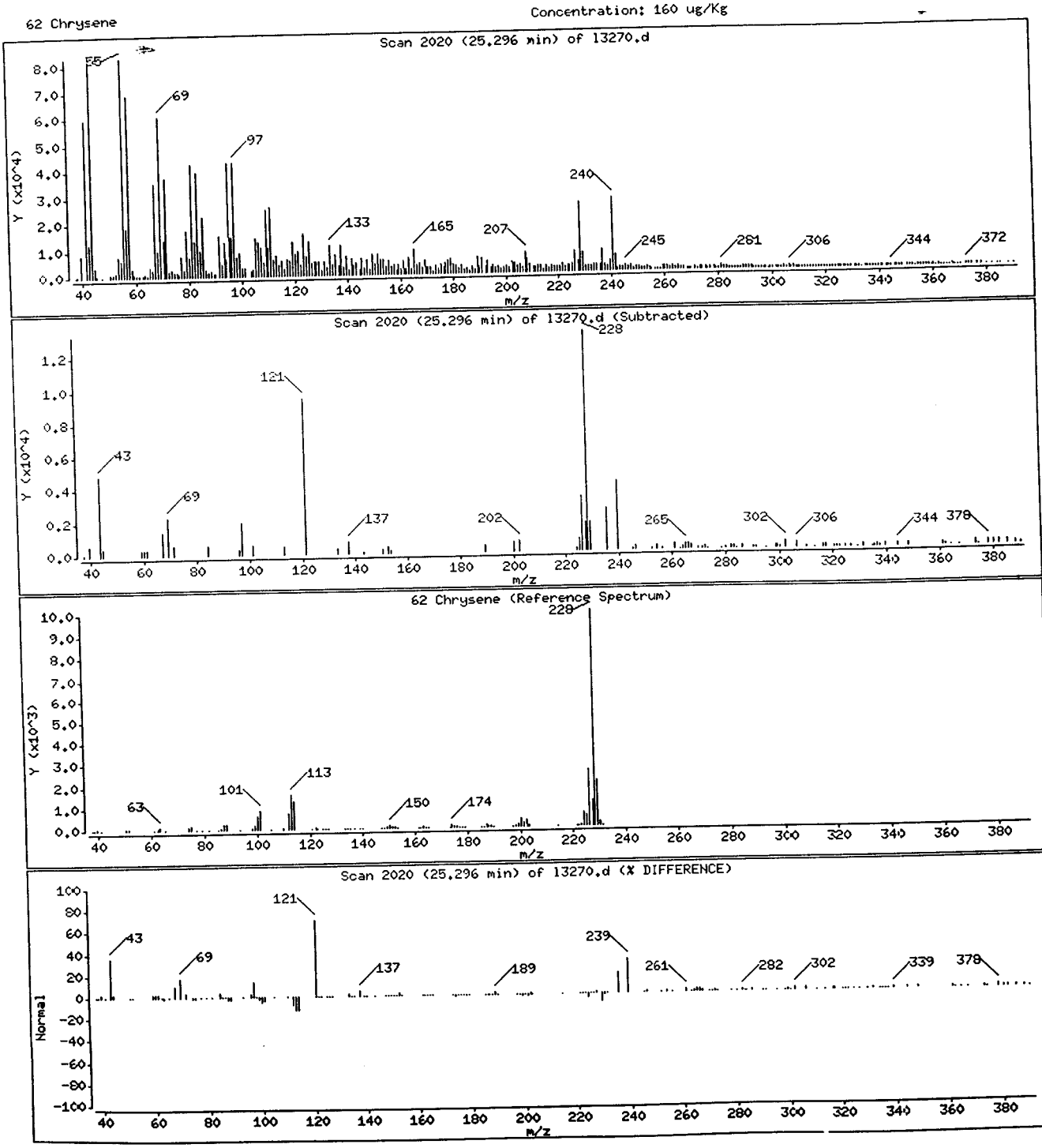
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Concentration: 160 ug/Kg

62 Chrysene



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13270.d

Date : 31-OCT-2000 10:16

Client ID: EB-4_16-16.5

Instrument: BNAMS7.i

Sample Info: 237839;30;2;1;7.8

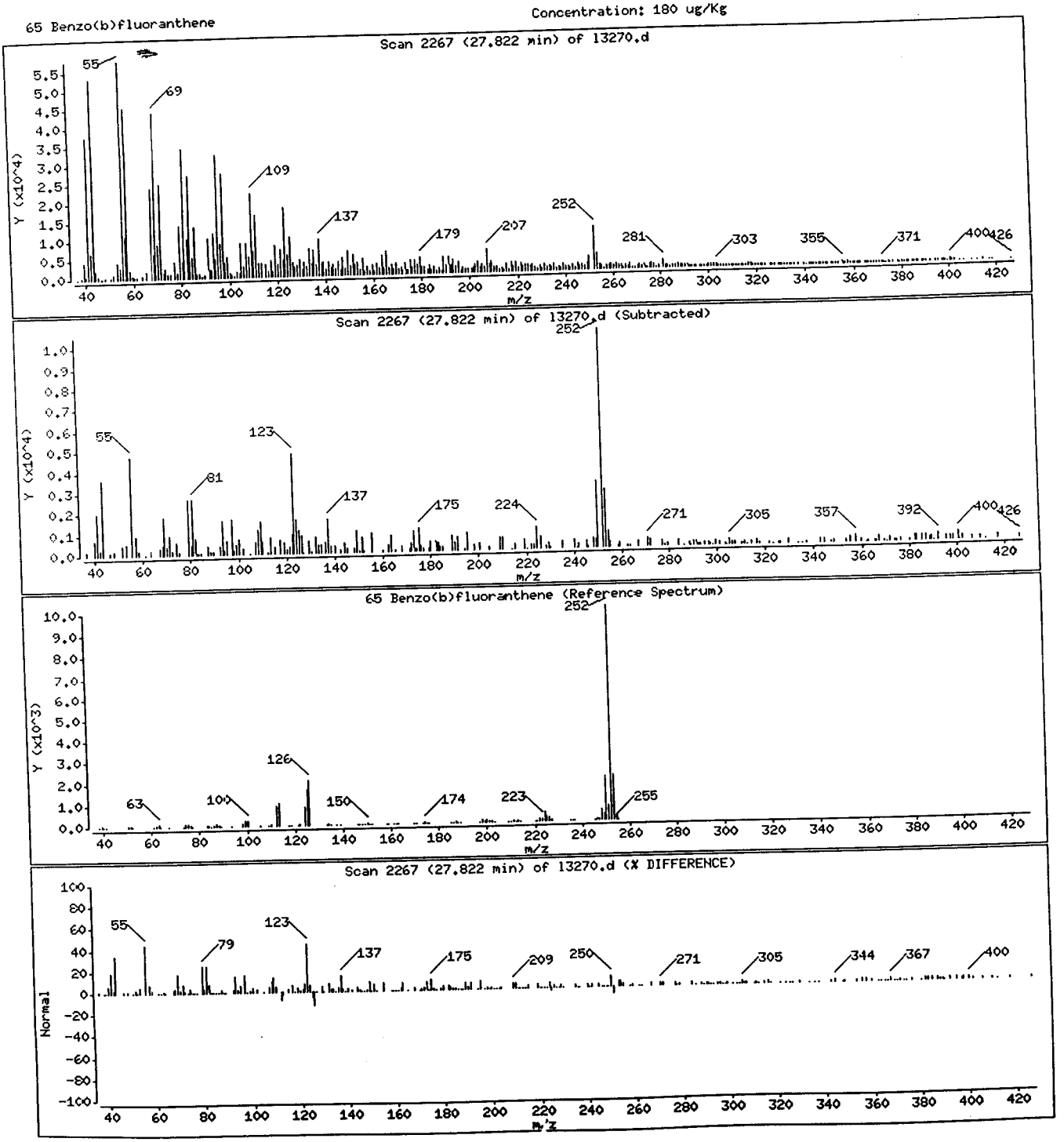
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Concentration: 180 ug/Kg

65 Benzo(b)fluoranthene



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13270.d

Date : 31-OCT-2000 10:16

Client ID: EB-4_16-16.5

Instrument: BNAMS7.i

Sample Info: 237839;30;2;1;7.8

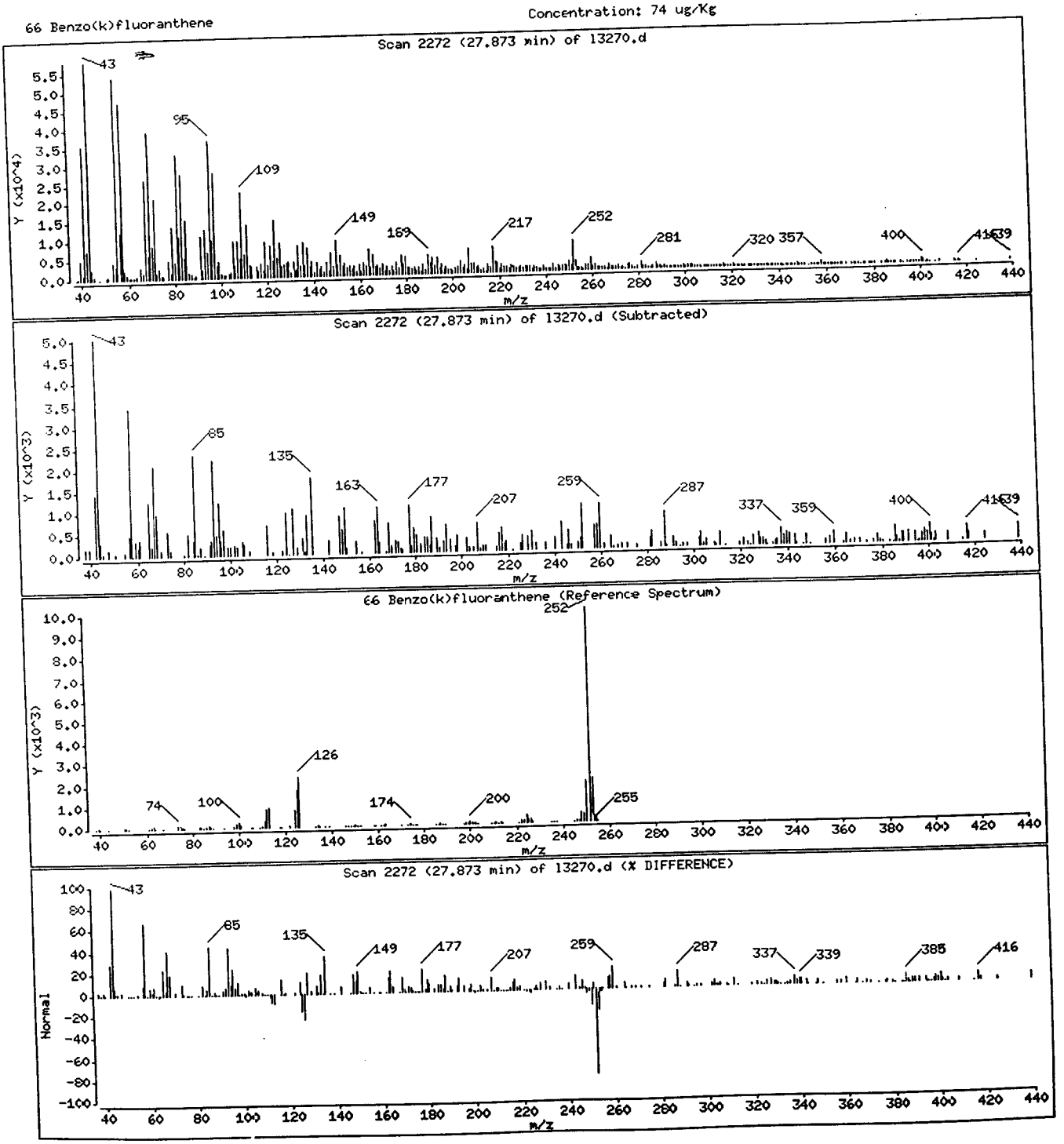
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Concentration: 74 ug/Kg

66 Benzo(k)fluoranthene



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13270.d

Date : 31-OCT-2000 10:16

Client ID: EB-4_16-16.5

Instrument: BNAMS7.i

Sample Info: 237839;30;2;1;7.8

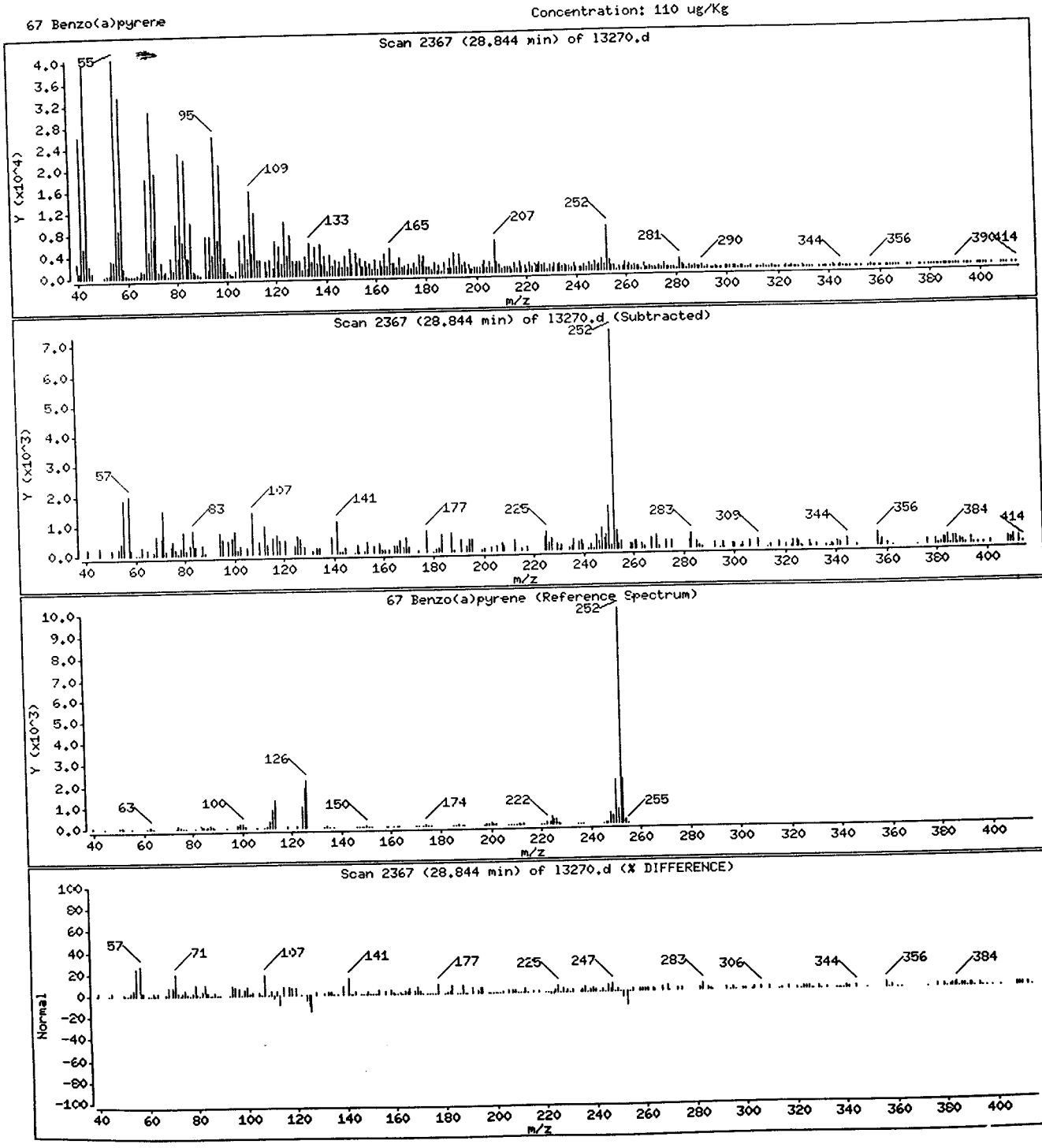
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Concentration: 110 ug/Kg

67 Benzo(a)pyrene



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13270.d

Date : 31-OCT-2000 10:16

Client ID: EB-4_16-16.5

Instrument: BNAMS7.i

Sample Info: 237839;30;2;1;7.8

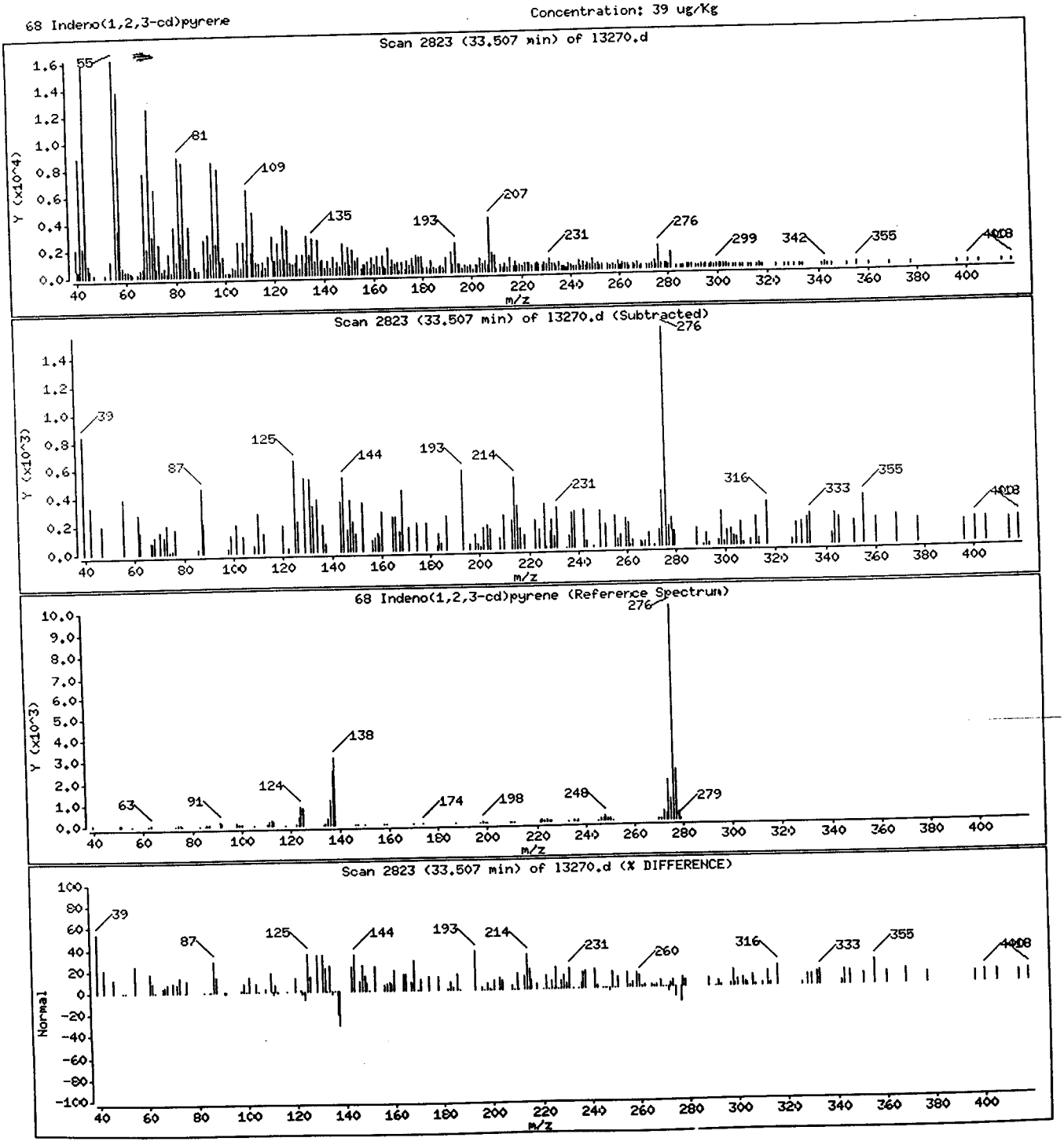
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

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

Concentration: 39 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13270.d

Date : 31-OCT-2000 10:16

Client ID: EB-4_16-16.5

Instrument: BNAMS7.i

Sample Info: 237839;30;2;1;7.8

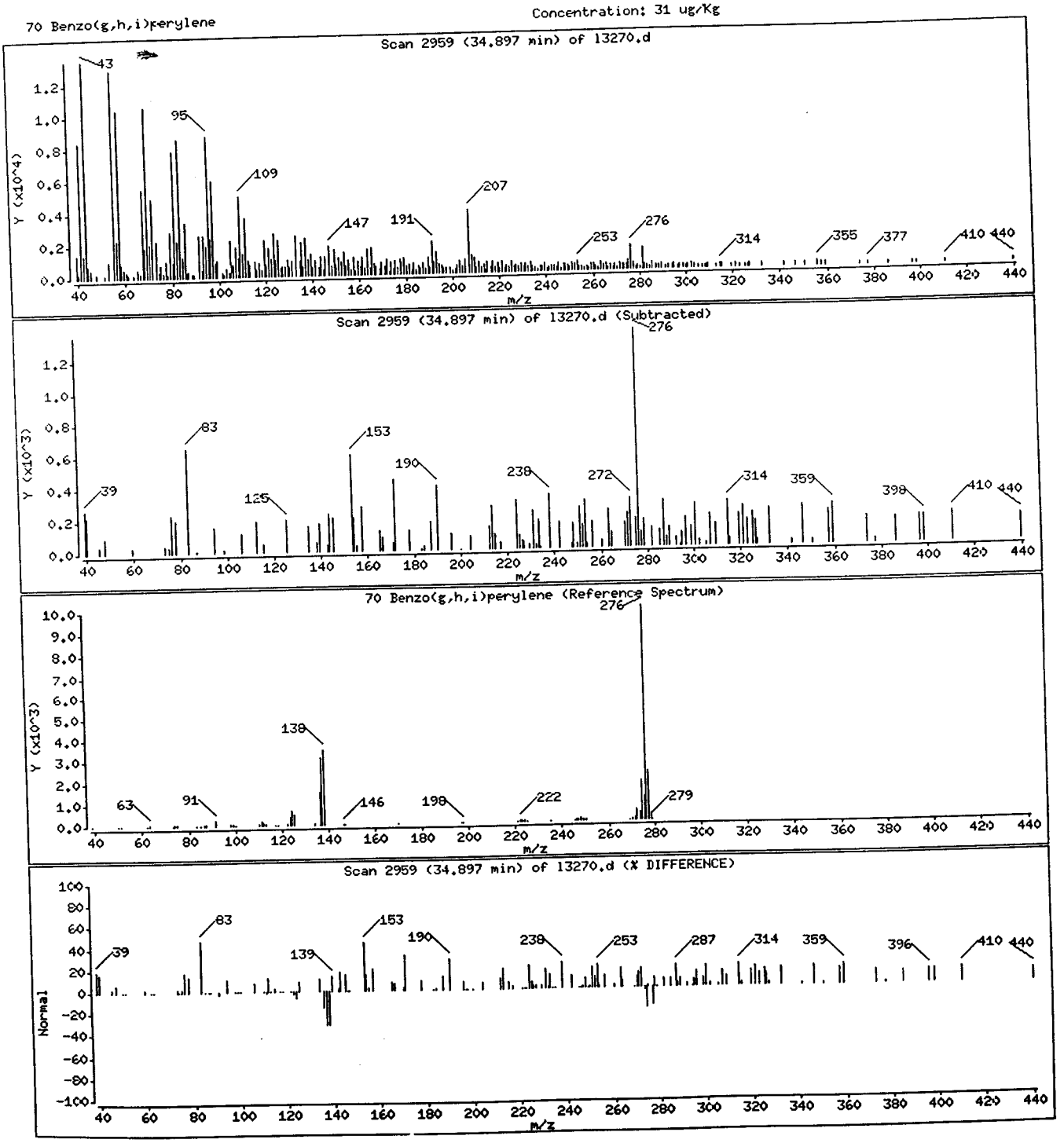
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Concentration: 31 ug/Kg

70 Benzo(g,h,i)perylene



Data File: /chem/BNAHS7.i/8270/10-27-00/31oct00.b/13270.d

Date : 31-OCT-2000 10:16

Client ID: EB-4_16-16.5

Instrument: BNAHS7.i

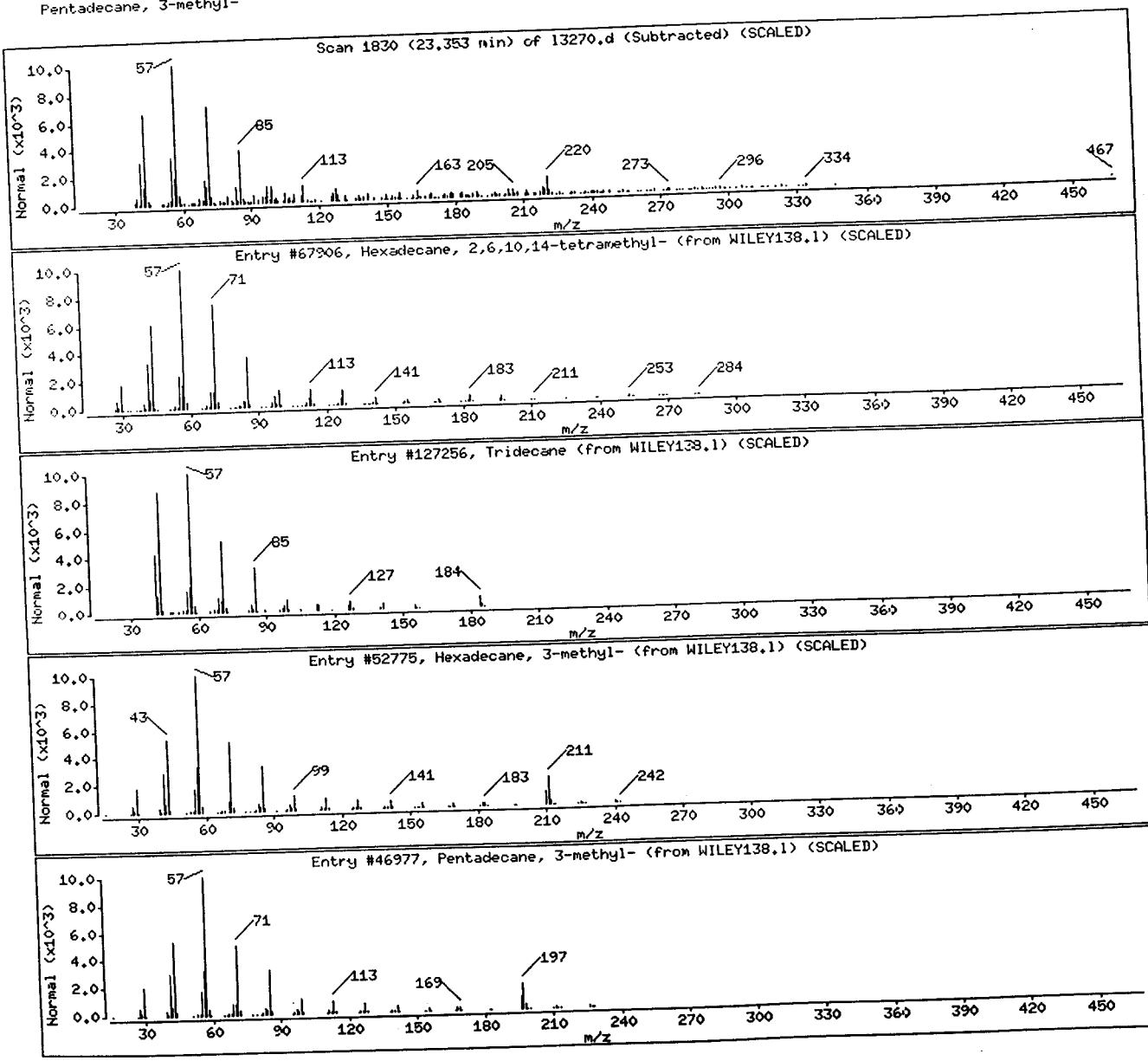
Sample Info: 237839;30;2;1;7.8

Operator: BNAHS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Hexadecane, 2,6,10,14-tetramethyl-	638-36-8	WILEY138.1	67906	93	C20H42	282
Tridecane	629-50-5	WILEY138.1	127256	90	C13H28	184
Hexadecane, 3-methyl-	6418-43-5	WILEY138.1	52775	87	C17H36	240
Pentadecane, 3-methyl-	2882-96-4	WILEY138.1	46977	87	C16H34	226



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13258.d

Date : 30-OCT-2000 22:41

Client ID: ES-1_ElShaft_4th

Instrument: BNAMS7.i

Sample Info: 237829;30;2;1;40.4

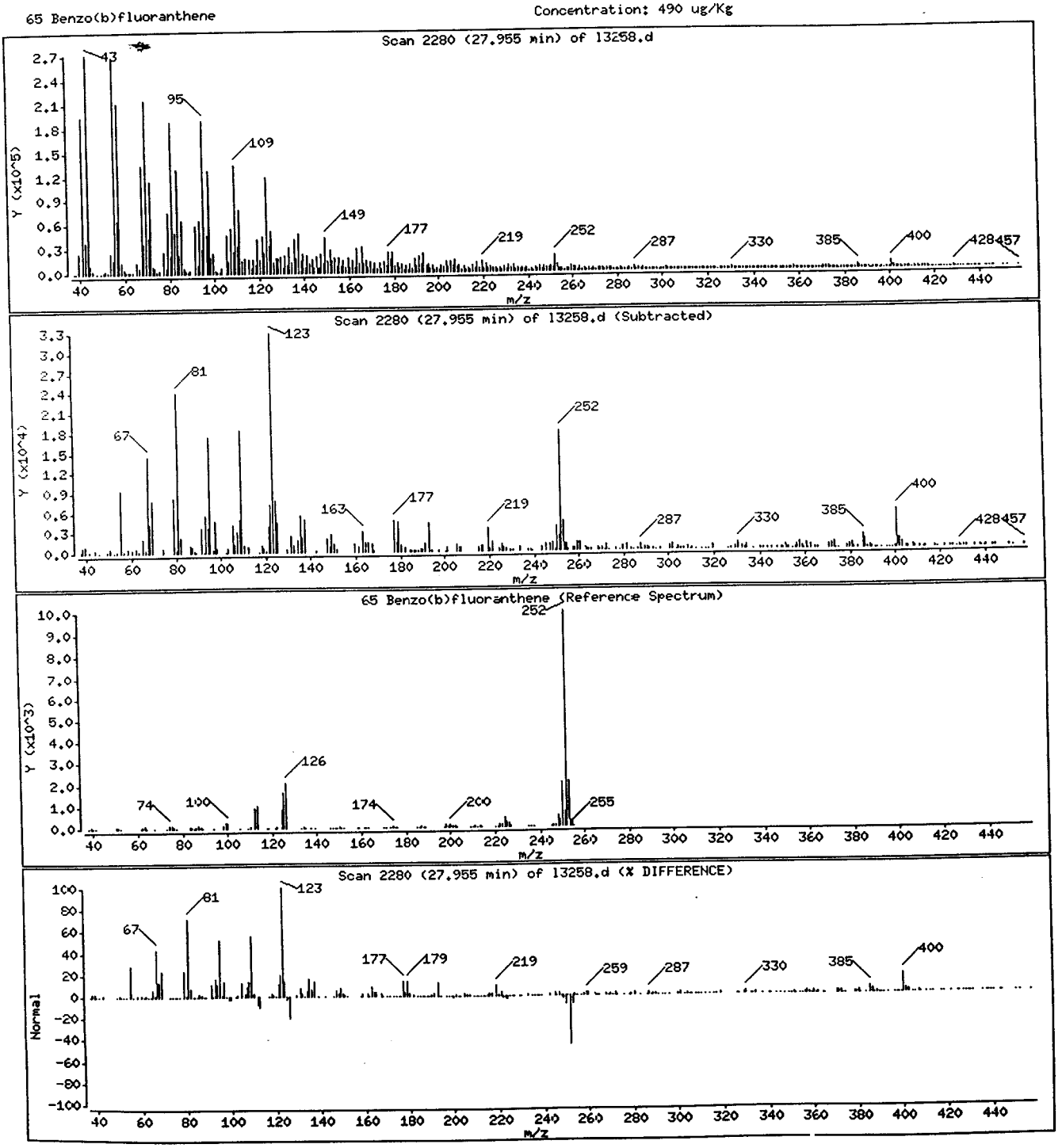
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

65 Benzo(b)fluoranthene

Concentration: 490 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13270.d

Date : 31-OCT-2000 10:16

Client ID: EB-4_16-16.5

Instrument: BNAMS7.i

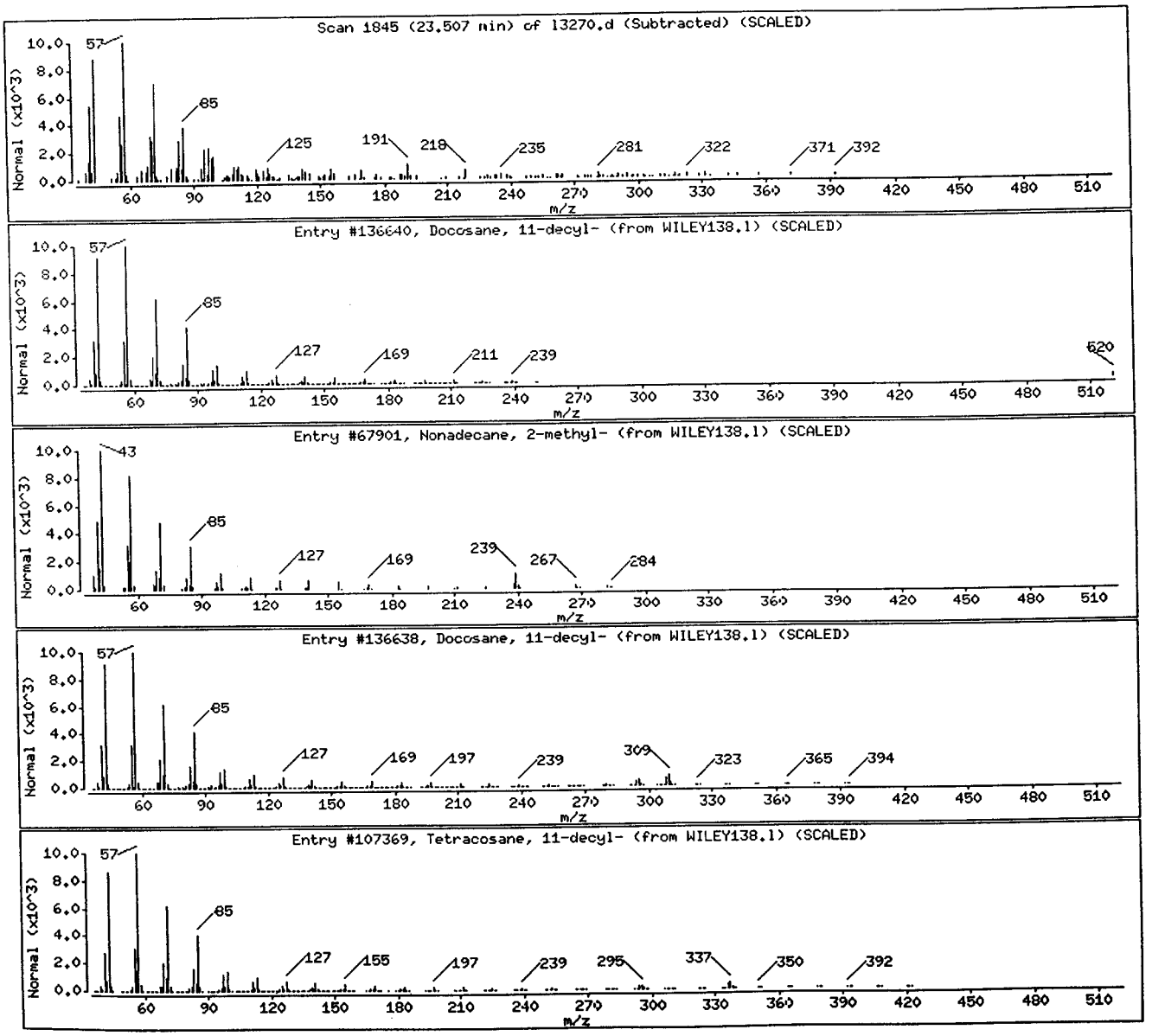
Sample Info: 237839;30;2;1;7.8

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Docosane, 11-decyl-	55401-55-3	WILEY138.1	136640	49	C32H66	451
Nonadecane, 2-methyl-	1560-86-7	WILEY138.1	67901	49	C20H42	282
Docosane, 11-decyl-	55401-55-3	WILEY138.1	136638	49	C32H66	451
Tetracosane, 11-decyl-	55429-84-0	WILEY138.1	107369	47	C34H70	479



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13270.d

Date : 31-OCT-2000 10:16

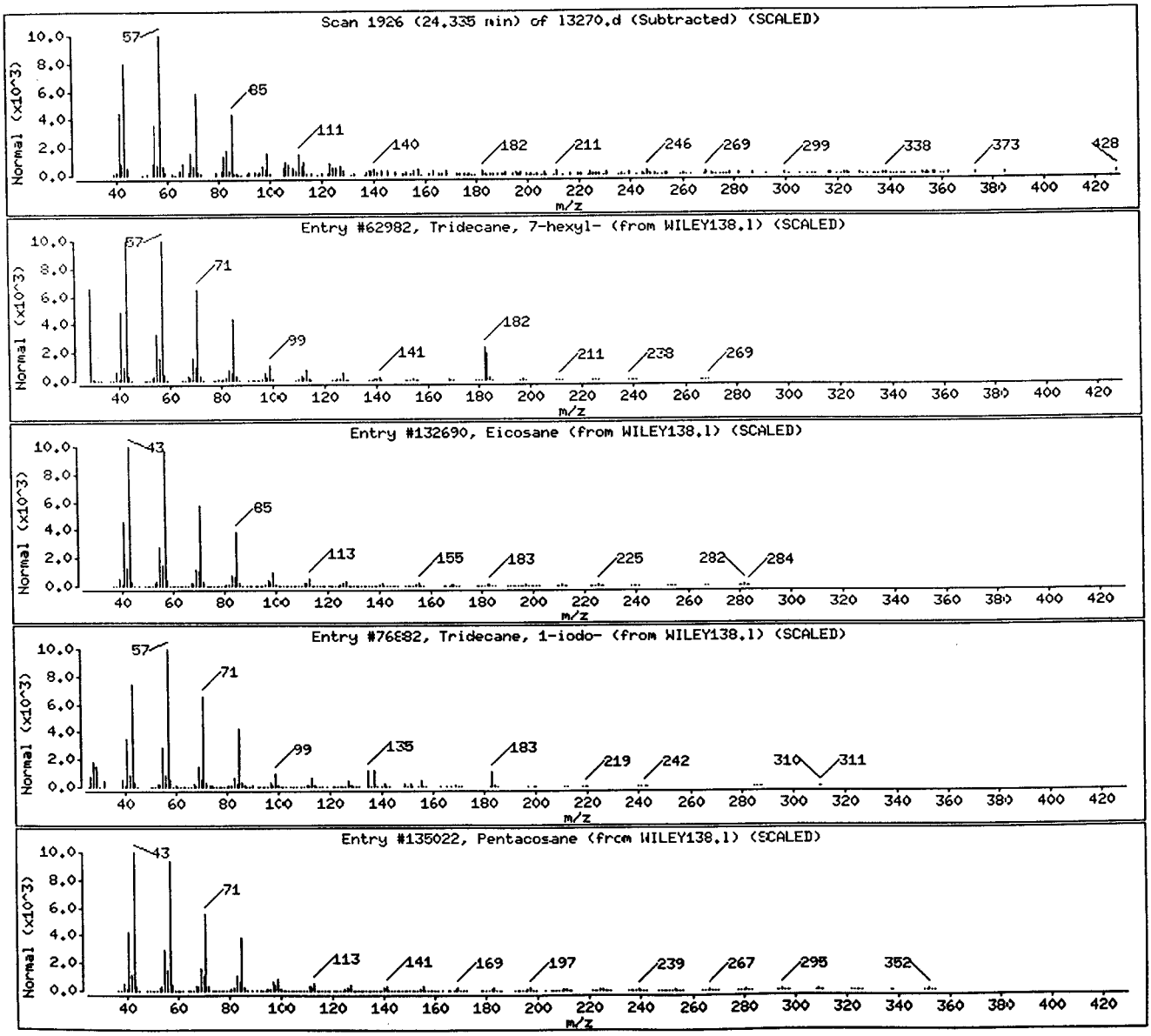
Client ID: EB-4_16-16.5 Instrument: BNAMS7.i

Sample Info: 237839;30;2;1;7.8

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Tridecane, 7-hexyl-	7225-66-3	WILEY138.1	62982	93	C19H40	268
Eicosane	112-95-8	WILEY138.1	132690	89	C20H42	282
Tridecane, 1-iodo-	35599-77-0	WILEY138.1	76882	89	C13H27I	310
Pentacosane	629-99-2	WILEY138.1	135022	89	C25H52	352



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13270.d

Date : 31-OCT-2000 10:16

Client ID: EB-4_16-16.5

Instrument: BNAMS7.i

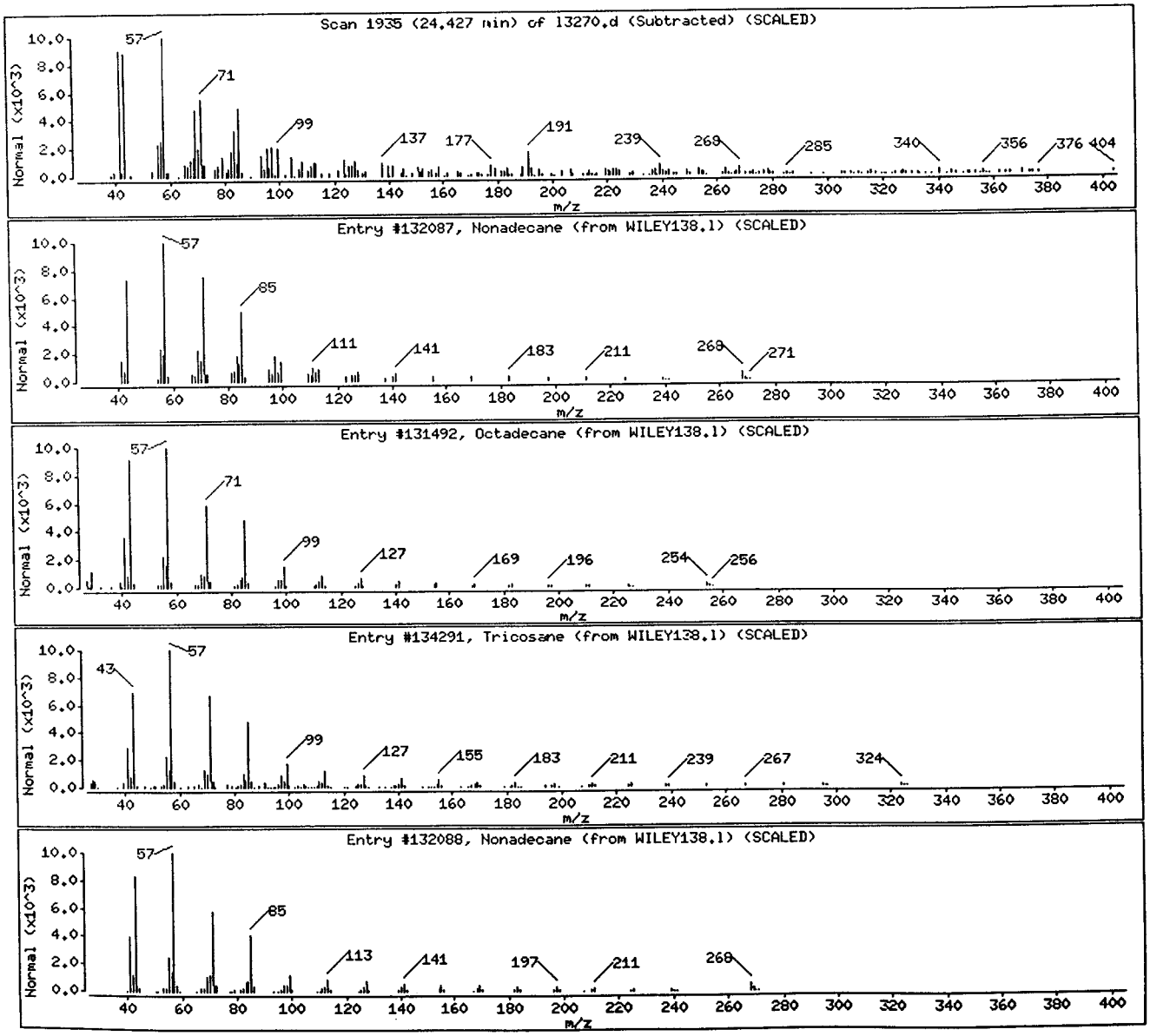
Sample Info: 237839;30;2;1;7.8

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
C19H40 Alkane ⇒						
Nonadecane	629-92-5	WILEY138.1	132087	91	C19H40	268
Octadecane	593-45-3	WILEY138.1	131492	64	C18H38	254
Tricosane	638-67-5	WILEY138.1	134291	64	C23H48	324
Nonadecane	629-92-5	WILEY138.1	132088	60	C19H40	268



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13270.d

Date : 31-OCT-2000 10:16

Client ID: EB-4_16-16.5

Instrument: BNAMS7.i

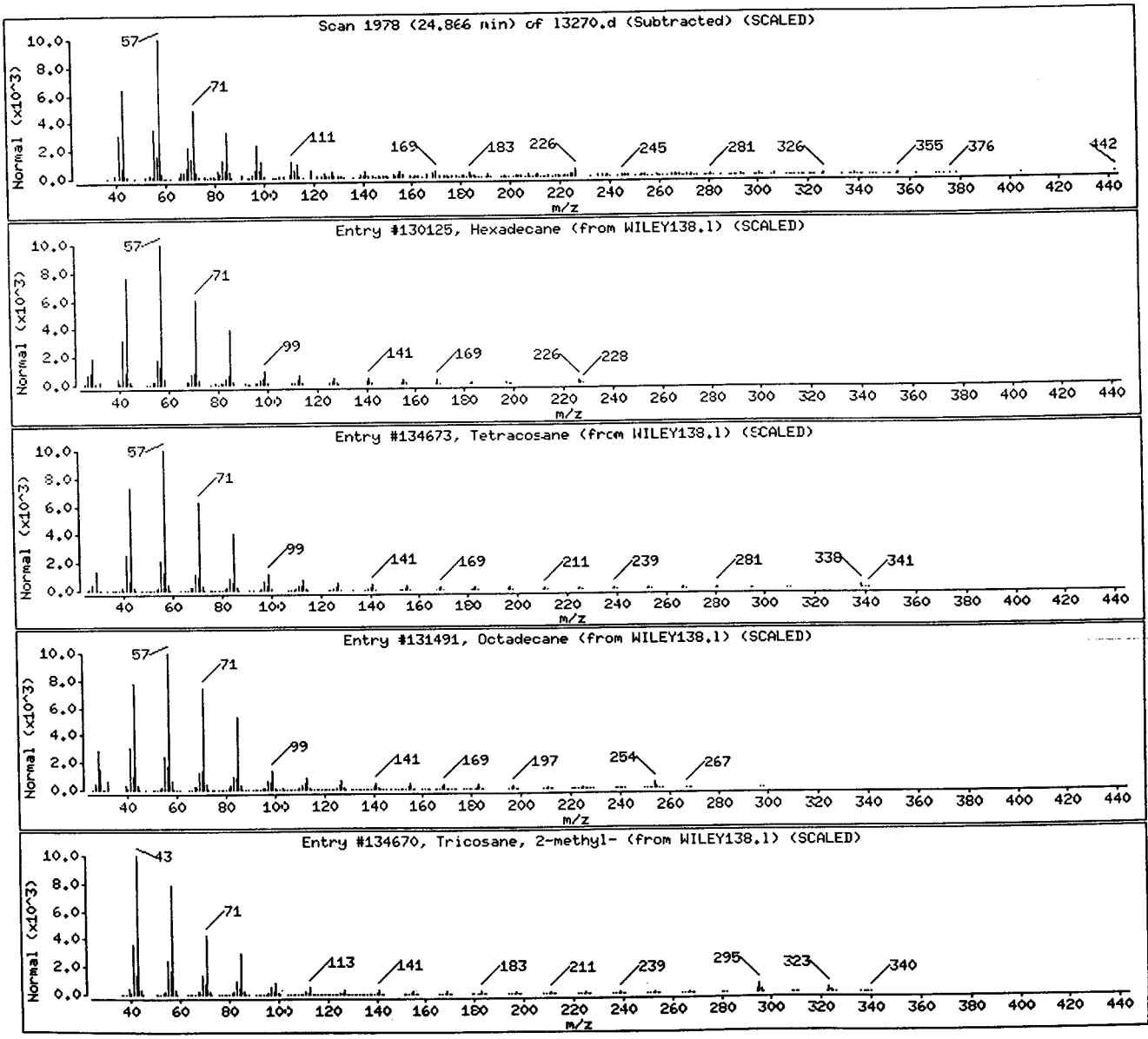
Sample Info: 237839;30;2;1;7.8

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Hexadecane	544-76-3	WILEY138.l	130125	96	C16H34	226
Tetracosane	646-31-1	WILEY138.l	134673	94	C24H50	338
Octadecane	593-45-3	WILEY138.l	131491	93	C18H38	254
Tricosane, 2-methyl-	1928-30-9	WILEY138.l	134670	89	C24H50	338



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13270.d

Date : 31-OCT-2000 10:16

Client ID: EB-4_16-16.5

Instrument: BNAMS7.i

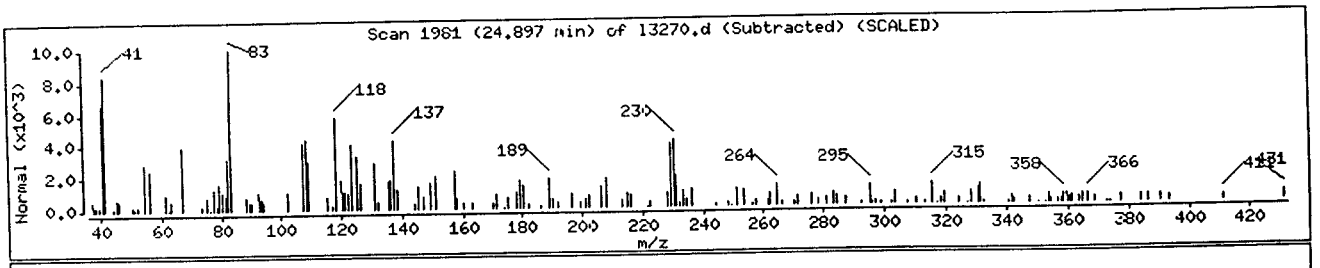
Sample Info: 237839;30;2;1;7.8

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0
Unknown						



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13270.d

Date : 31-OCT-2000 10:16

Client ID: EB-4_16-16.5

Instrument: BNAMS7.i

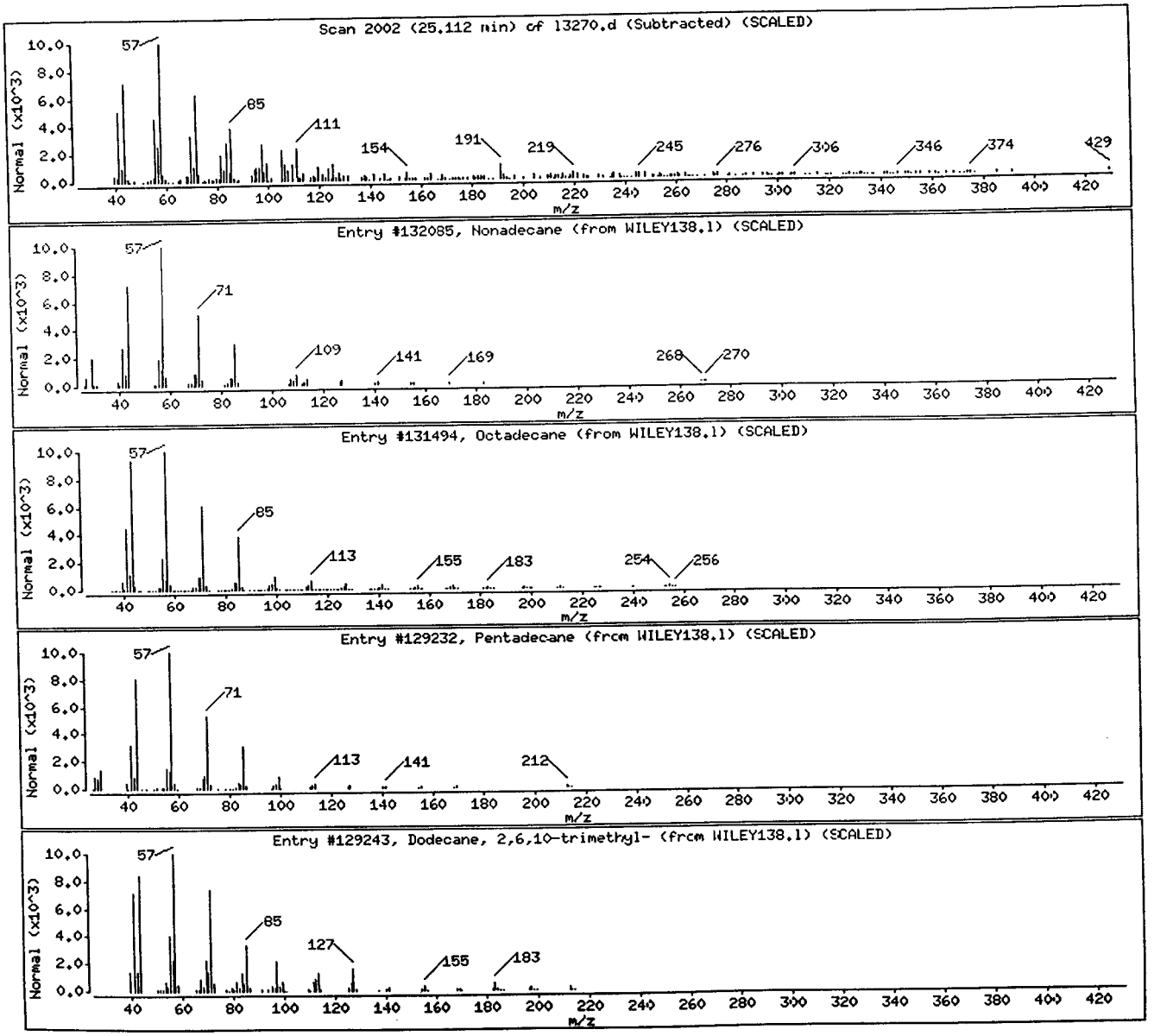
Sample Info: 237839;30;2;1;7.8

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Nonadecane	629-92-5	WILEY138.1	132085	62	C19H40	268
Octadecane	593-45-3	WILEY138.1	131494	56	C18H38	254
Pentadecane	629-62-9	WILEY138.1	129232	49	C15H32	212
Dodecane, 2,6,10-trimethyl-	3891-98-3	WILEY138.1	129243	46	C15H32	212



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13270.d

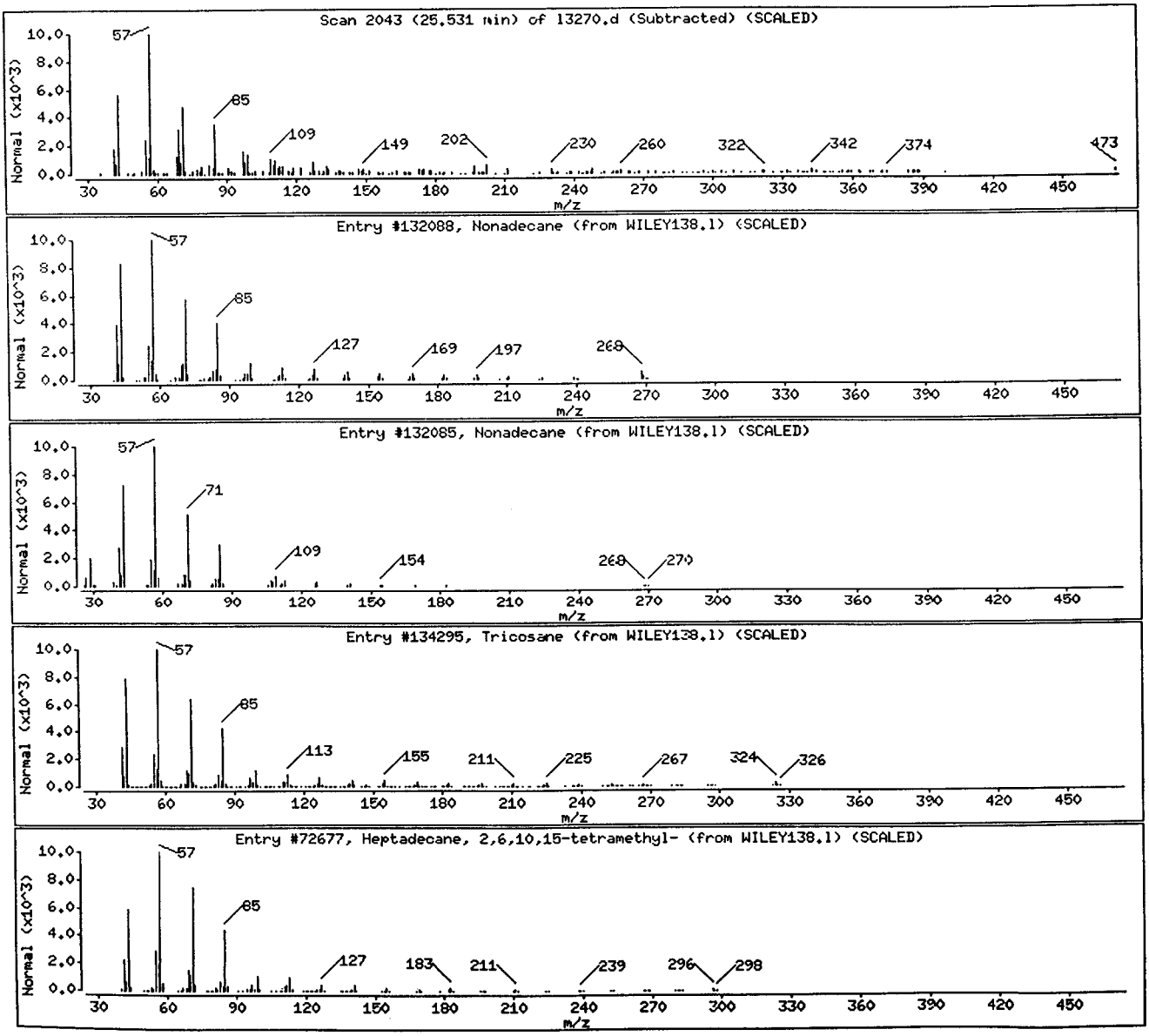
Date : 31-OCT-2000 10:16

Client ID: EB-4_16-16.5 Instrument: BNAMS7.i

Sample Info: 237839;30;2;1;7.8 Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Nonadecane	629-92-5	WILEY138.l	132088	70	C19H40	268
Nonadecane	629-92-5	WILEY138.l	132085	58	C19H40	268
Tricosane	638-67-5	WILEY138.l	134295	58	C23H48	324
Heptadecane, 2,6,10,15-tetramethyl-	54833-48-6	WILEY138.l	72677	53	C21H44	296



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13270.d

Date : 31-OCT-2000 10:16

Client ID: EB-4_16-16.5

Instrument: BNAMS7.i

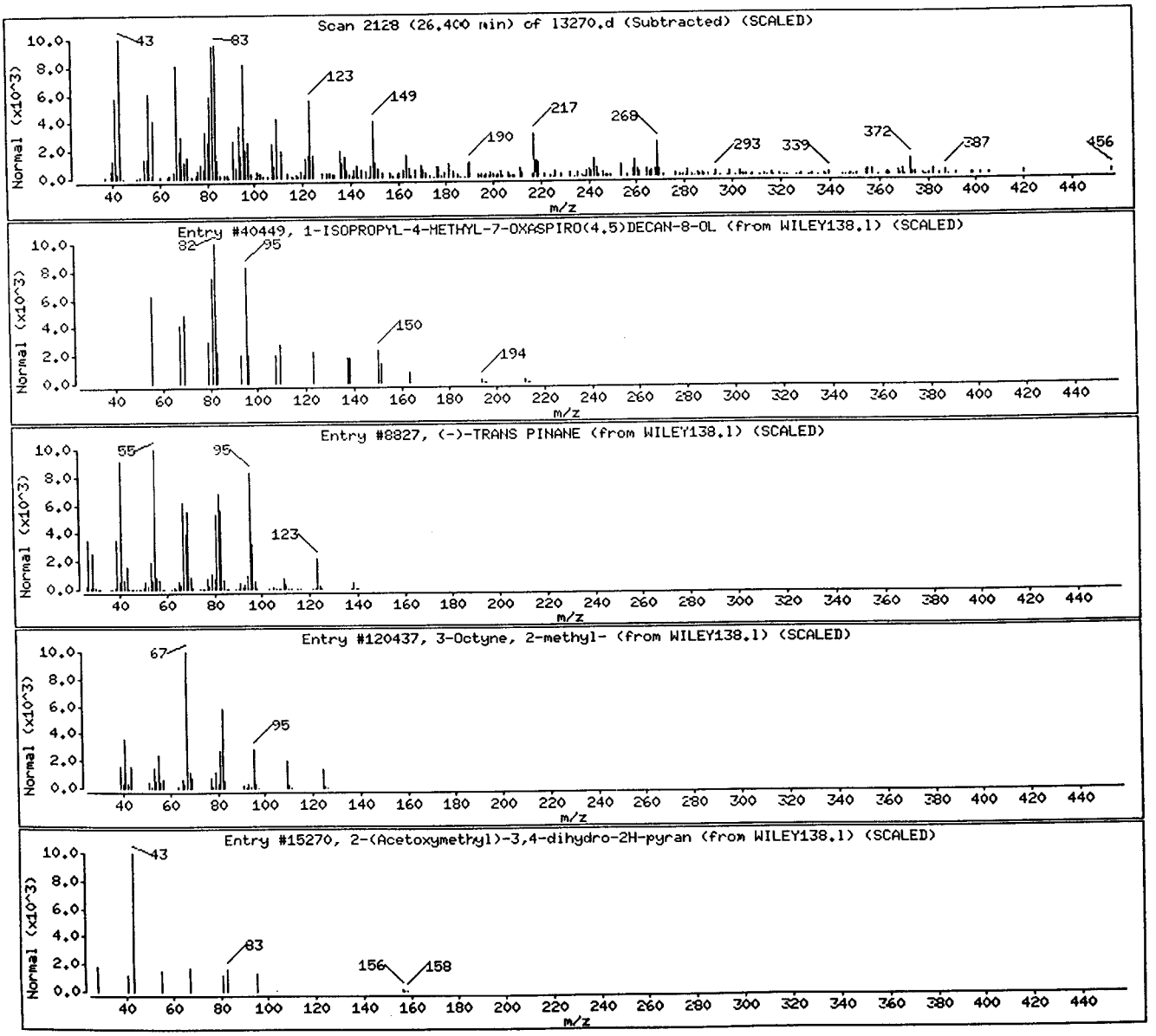
Sample Info: 237839;30;2;1;7.8

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-ISOPROPYL-4-METHYL-7-OXASPIRO(4.5)DECA	57683-89-3	WILEY138.l	40449	46	C13H24O2	212
(-)-TRANS PINANE	473-55-2	WILEY138.l	8827	43	C10H18	138
3-Octyne, 2-methyl-	55402-15-8	WILEY138.l	120437	38	C9H16	124
2-(Acetoxymethyl)-3,4-dihydro-2H-pyran	0-00-0	WILEY138.l	15270	35	C8H12O3	156



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13270.d

Date : 31-OCT-2000 10:16

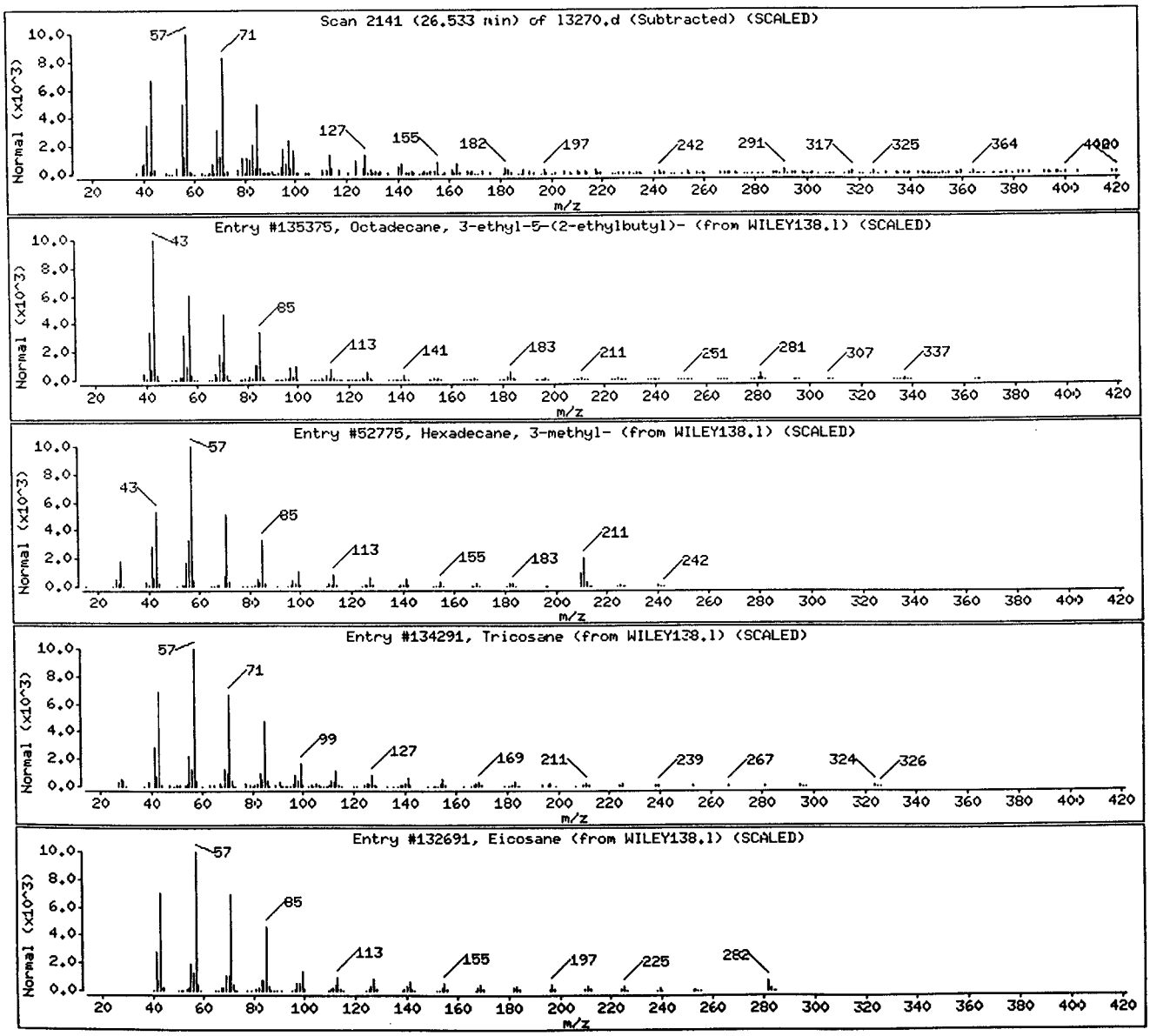
Client ID: EB-4_16-16.5 Instrument: BNAMS7.i

Sample Info: 237839;30;2;1;7.8

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Octadecane, 3-ethyl-5-(2-ethylbutyl)-	55282-12-7	WILEY138.l	135375	81	C26H54	366
Hexadecane, 3-methyl-	6418-43-5	WILEY138.l	52775	81	C17H36	240
Tricosane	638-67-5	WILEY138.l	134291	72	C23H48	324
Eicosane	112-95-8	WILEY138.l	132691	72	C20H42	282



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13270.d

Date : 31-OCT-2000 10:16

Client ID: EB-4_16-16.5

Instrument: BNAMS7.i

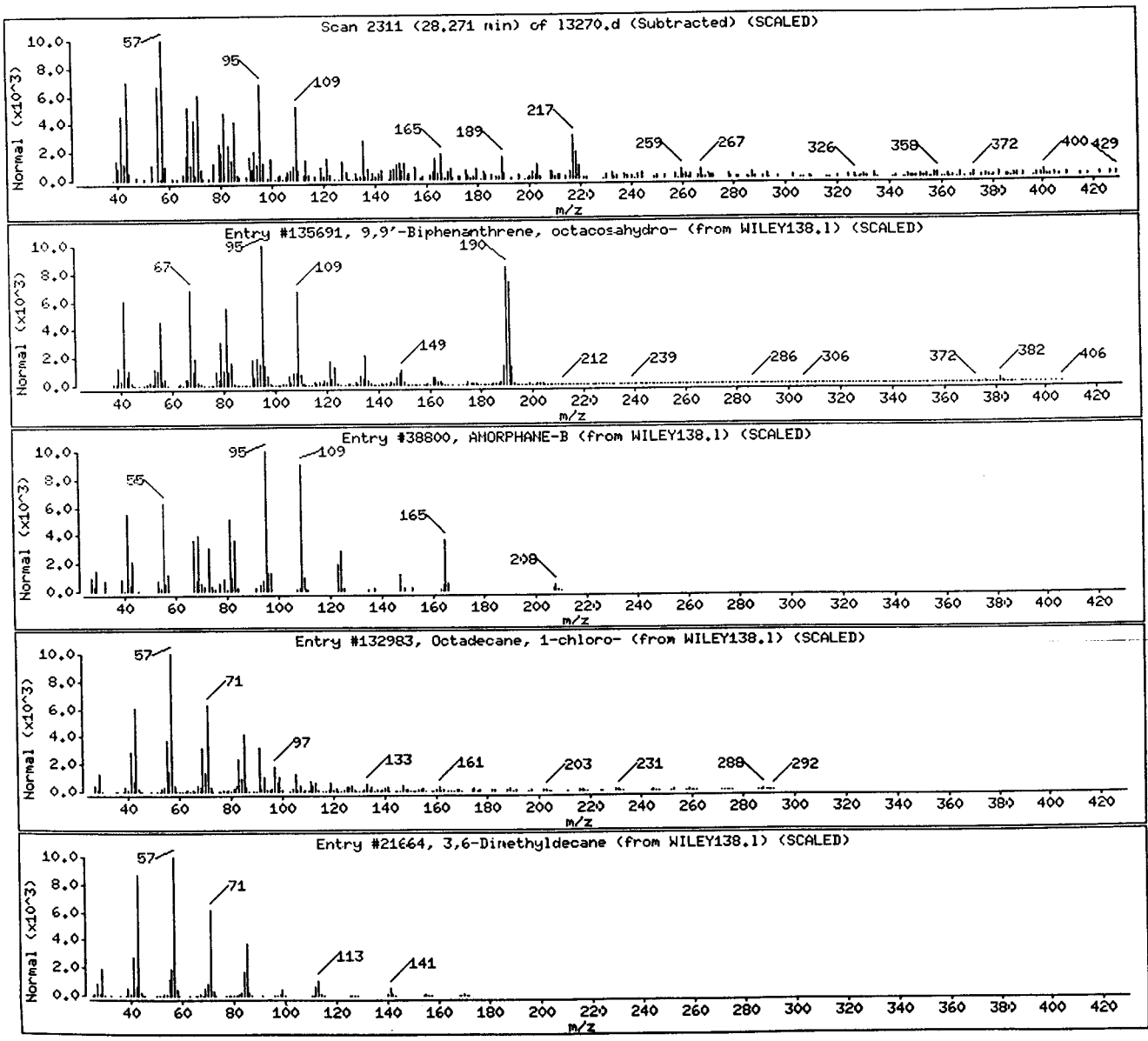
Sample Info: 237839;30;2;1;7.8

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
9,9'-Biphenanthrene, octacosahydro-	55334-18-4	WILEY138.1	135691	95	C28H46	382
AMORPHANE-B	0-00-0	WILEY138.1	38800	38	C15H28	208
Octadecane, 1-chloro-	3386-33-2	WILEY138.1	132983	35	C18H37Cl	288
3,6-Dimethyldecane	17312-53-7	WILEY138.1	21664	25	C12H26	170



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13270.d

Date : 31-OCT-2000 10:16

Client ID: EB-4_16-16.5

Instrument: BNAMS7.i

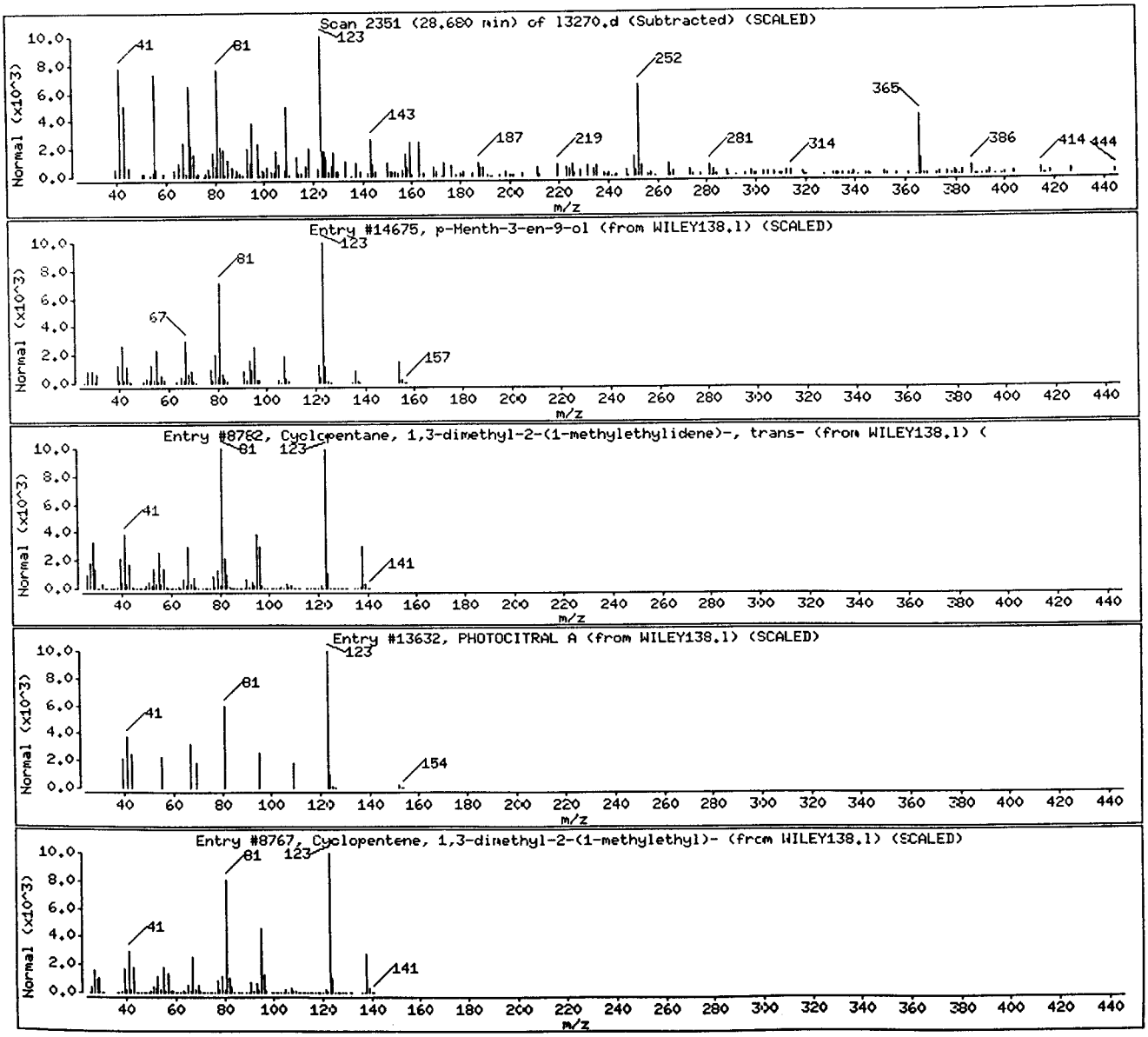
Sample Info: 237839;30;2;1;7.8

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
p-Menth-3-en-9-ol	15714-10-0	WILEY138.l	14675	43	C10H180	154
Cyclopentane, 1,3-dimethyl-2-(1-methylet	61142-30-1	WILEY138.l	8782	43	C10H18	138
PHOTOCITRAL A	55253-27-5	WILEY138.l	13632	37	C10H160	152
Cyclopentene, 1,3-dimethyl-2-(1-methylet	61142-32-3	WILEY138.l	8767	37	C10H18	138



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13270.d

Date : 31-OCT-2000 10:16

Client ID: EB-4_16-16.5

Instrument: BNAMS7.i

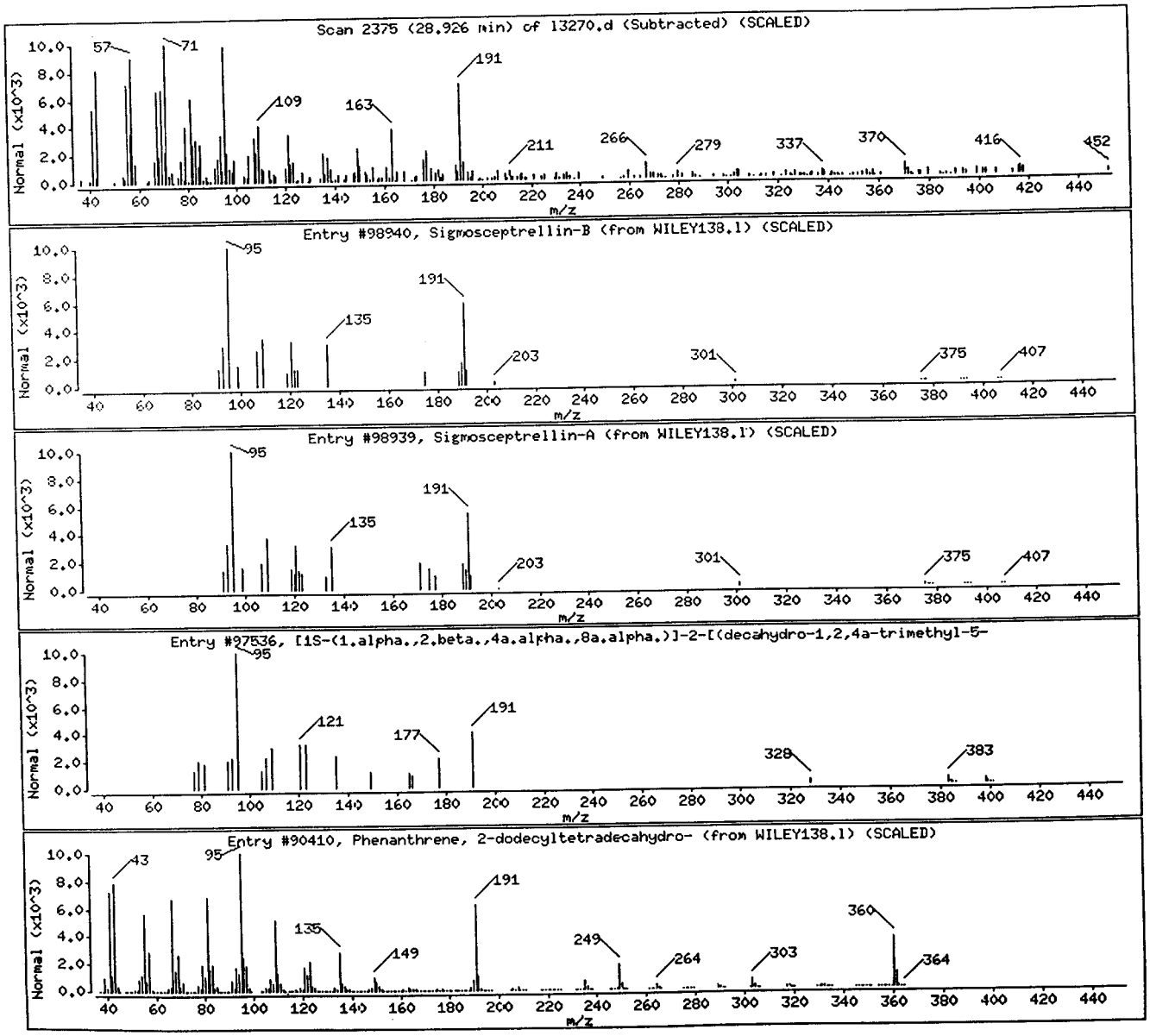
Sample Info: 237839;30;2;1;7.8

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Hatch	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Sigmosceptrellin-B	81739-17-5	WILEY138.l	98940	83	C25H4204	406
Sigmosceptrellin-A	73436-35-8	WILEY138.l	98939	80	C25H4204	406
[1S-(1.alpha.,2.beta.,4a.alpha.,8a.alpha	87764-14-5	WILEY138.l	97536	49	C25H3404	398
Phenanthrene, 2-dodecyltetradecahydro-	55334-22-0	WILEY138.l	90410	38	C26H48	360



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13270.d

Date : 31-OCT-2000 10:16

Client ID: EB-4_16-16.5

Instrument: BNAMS7.i

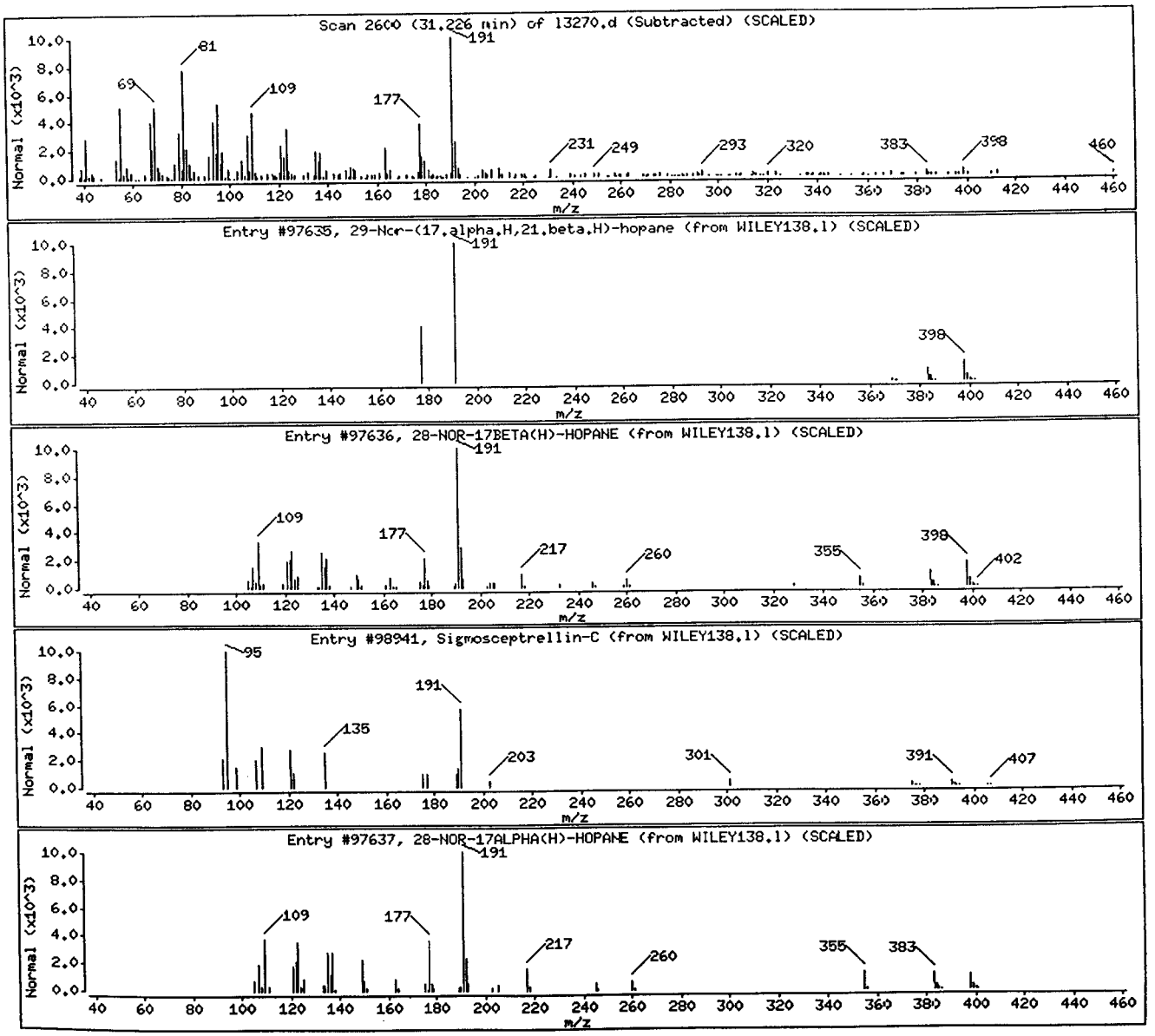
Sample Info: 237839;30;2;1;7.8

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
29-Nor-(17.alpha.H,21.beta.H)-hopane	0-00-0	WILEY138.1	97635	72	C29H50	398
28-NOR-17BETA(H)-HOPANE	36728-72-0	WILEY138.1	97636	70	C29H50	398
Sigmosceptrellin-C	83829-05-4	WILEY138.1	98941	32	C25H4204	406
28-NOR-17ALPHA(H)-HOPANE	53584-60-4	WILEY138.1	97637	32	C29H50	398



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13270.d

Date : 31-OCT-2000 10:16

Client ID: EB-4_16-16.5

Instrument: BNAMS7.i

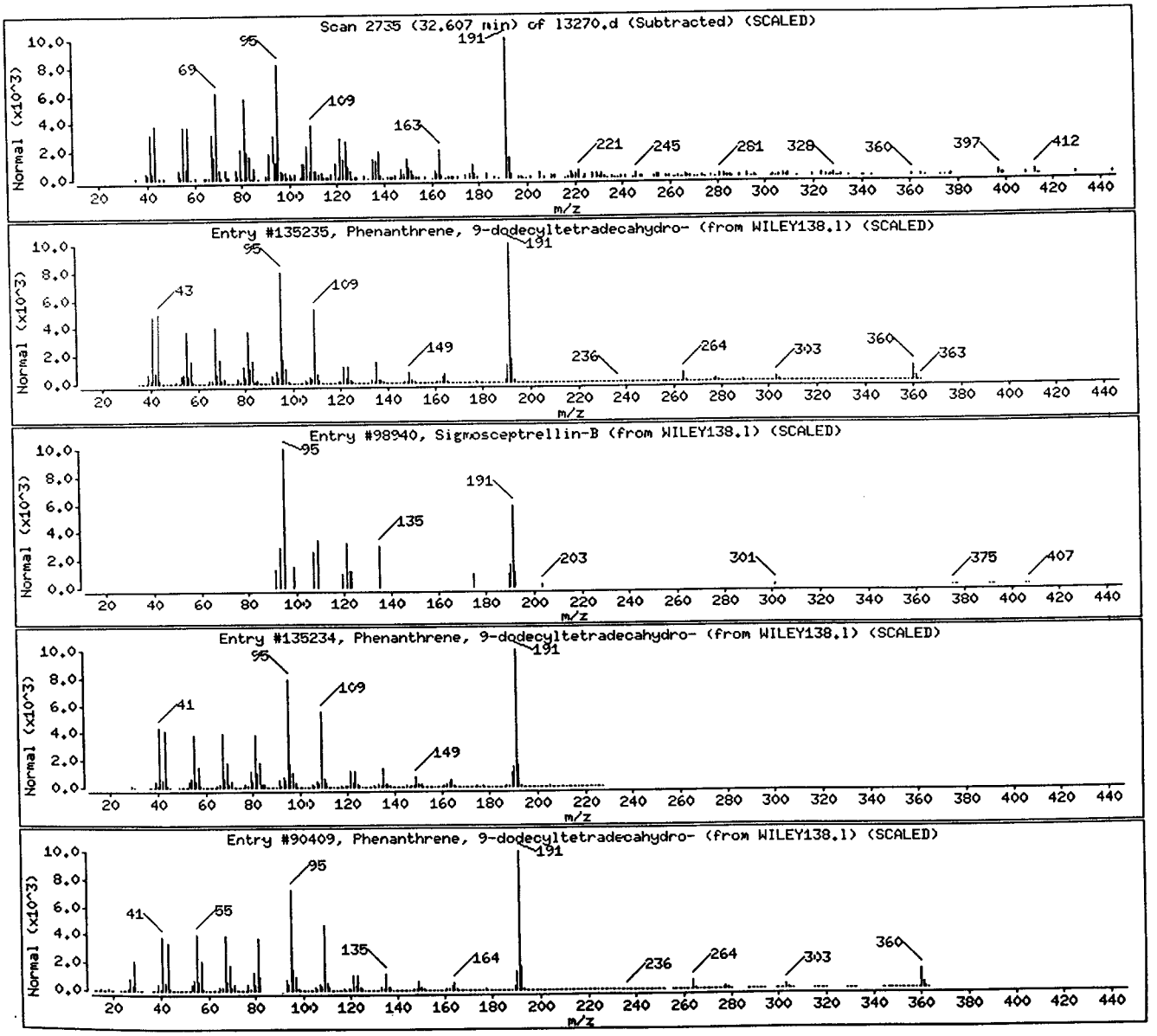
Sample Info: 237839;30;2;1;7.8

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Phenanthrene, 9-dodecyltetradecahydro-	55334-01-5	WILEY138.1	135235	45	C26H48	360
Sigmosceptrellin-B	81739-17-5	WILEY138.1	98940	45	C25H4204	406
Phenanthrene, 9-dodecyltetradecahydro-	55334-01-5	WILEY138.1	135234	42	C26H48	360
Phenanthrene, 9-dodecyltetradecahydro-	55334-01-5	WILEY138.1	90409	42	C26H48	360



SEMI-VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab File ID: L3219

DFTPP Injection Date: 10/27/00

Instrument ID: BNAMS7

DFTPP Injection Time: 0854

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	42.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	60.0
70	Less than 2.0% of mass 69	0.3 (0.5)1
127	40.0 - 60.0% of mass 198	56.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	22.8
365	Greater than 1.0% of mass 198	4.27
441	0.0 - 100.0% of mass 443	7.6 (79.1)2
442	40.0 - 110.0% of mass 198	50.3
443	17.0 - 23.0% of mass 442	9.6 (19.1)3

1-Value is % mass 69

2-Value is % mass 443

3-Value is % mass 442

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

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	LSTD301	LSTD301	L3220	10/27/00	0914
02	LSTD120	LSTD120	L3221	10/27/00	1003
03	LSTD005	LSTD005	L3222	10/27/00	1052
04	LSTD080	LSTD080	L3223	10/27/00	1141
05	LSTD020	LSTD020	L3224	10/27/00	1229
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					

Data File: /chem/BNAMS7.i/8270/10-27-00/27oct00.b/13219.d

Date : 27-OCT-2000 08:54

Client ID:

Instrument: BNAMS7.i

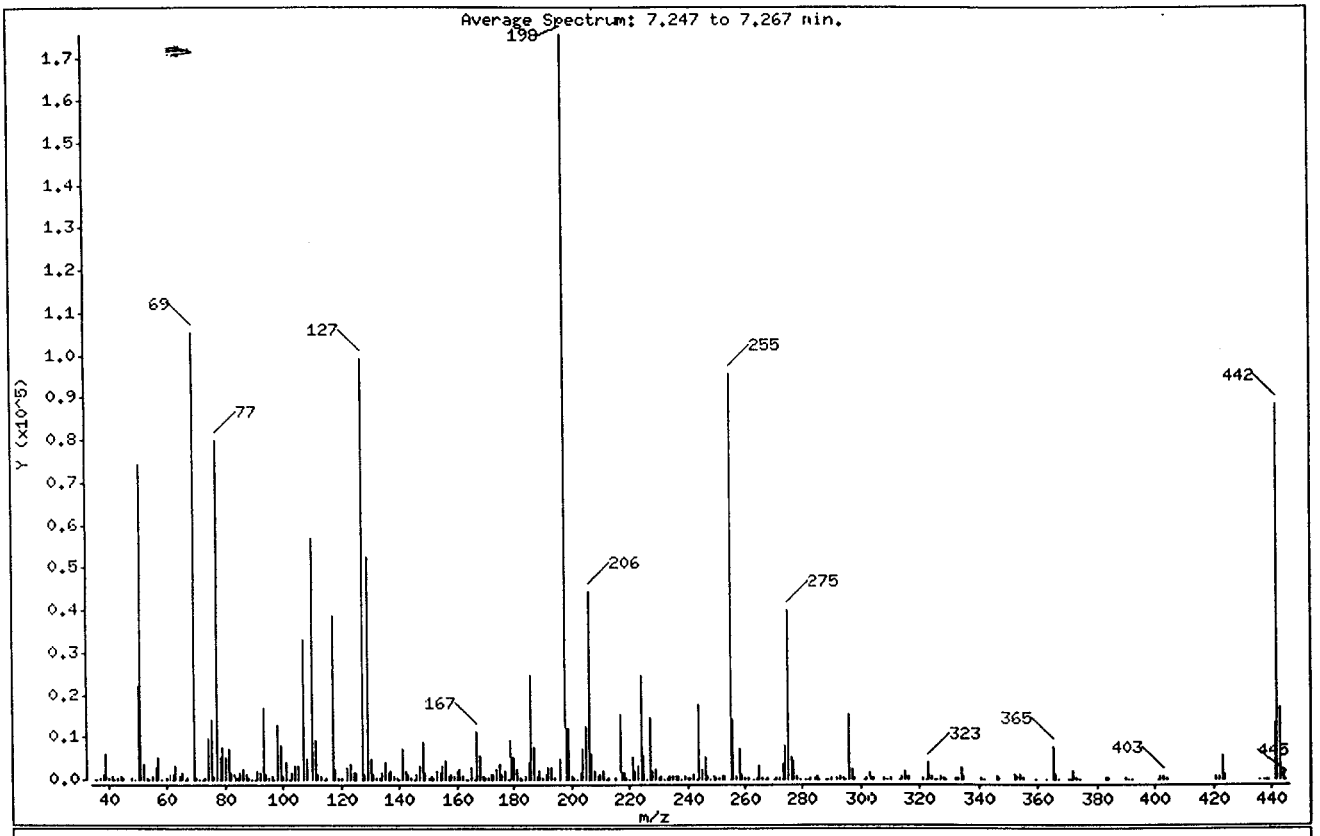
Sample Info: LDFT301

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	42.21
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	59.97
70	Less than 2.00% of mass 69	0.31 (0.52)
127	40.00 - 60.00% of mass 198	56.52
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.00
275	10.00 - 30.00% of mass 198	22.83
365	Greater than 1.00% of mass 198	4.27
441	0.01 - 100.00% of mass 443	7.58 (79.07)
442	40.00 - 110.00% of mass 198	50.30
443	17.00 - 23.00% of mass 442	9.59 (19.07)

Data File: /chem/BNAHS7.i/8270/10-27-00/27oct00.b/13219.d

Date : 27-OCT-2000 08:54

Client ID:

Instrument: BNAHS7.i

Sample Info: LDFT301

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: 13219.d

Spectrum: Average Spectrum: 7.247 to 7.267 min.

Location of Maximum: 198.00

Number of points: 309

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	62	120.00	349	202.00	148	286.00	76
36.00	85	122.00	2947	203.00	1665	288.00	52
37.00	478	123.00	3815	204.00	7122	289.00	195
38.00	1208	124.00	1795	205.00	12597	290.00	232
39.00	5972	125.00	1541	206.00	44368	292.00	301
40.00	416	127.00	99384	207.00	5877	293.00	954
41.00	652	128.00	1155	208.00	2070	294.00	332
42.00	55	129.00	52416	209.00	798	295.00	94
43.00	362	130.00	4827	210.00	1117	296.00	15360
44.00	708	131.00	1061	211.00	1928	297.00	2308
45.00	303	132.00	506	212.00	177	298.00	250
48.00	437	133.00	204	213.00	221	301.00	187
49.00	180	134.00	1726	215.00	566	302.00	214
50.00	22352	135.00	3904	217.00	15198	303.00	1751
51.00	74216	136.00	1618	218.00	1764	304.00	382
52.00	3572	137.00	1888	219.00	207	308.00	279
53.00	287	138.00	608	220.00	72	309.00	148
54.00	118	139.00	228	221.00	5117	310.00	223
55.00	1002	140.00	172	222.00	2096	313.00	141
56.00	2783	141.00	7137	223.00	3293	314.00	650
57.00	5363	142.00	1848	224.00	24656	315.00	2001
58.00	119	143.00	1385	225.00	5852	316.00	921
60.00	293	144.00	397	226.00	52	321.00	394
61.00	1027	145.00	76	227.00	14730	322.00	125
62.00	1105	146.00	1329	228.00	2207	323.00	4151
63.00	3362	147.00	3310	229.00	2438	324.00	794
64.00	834	148.00	8844	230.00	385	325.00	57
65.00	1582	149.00	1439	231.00	904	326.00	52
66.00	195	150.00	396	232.00	152	327.00	962
67.00	395	151.00	715	233.00	210	328.00	424
69.00	105456	152.00	494	234.00	864	329.00	145
70.00	551	153.00	1996	235.00	847	332.00	306
71.00	76	154.00	1507	236.00	730	333.00	348
72.00	158	155.00	3318	237.00	854	334.00	2968
73.00	411	156.00	4287	238.00	130	335.00	748

Data File: /chem/BNAMS7.i/8270/10-27-00/27oct00.b/13219.d

Date : 27-OCT-2000 08:54

Client ID:

Instrument: BNAMS7.i

Sample Info: LDFT301

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: 13219.d

Spectrum: Average Spectrum: 7.247 to 7.267 min.

Location of Maximum: 198.00

Number of points: 309

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	9647	157.00	721	239.00	694	341.00	592
75.00	13973	158.00	1189	240.00	424	342.00	189
76.00	861	159.00	762	241.00	603	346.00	836
77.00	79864	160.00	2177	242.00	1331	347.00	272
78.00	5238	161.00	2403	243.00	117	352.00	1249
79.00	7870	162.00	679	244.00	17656	353.00	785
80.00	5431	163.00	198	245.00	2335	354.00	1120
81.00	7131	164.00	104	246.00	5375	355.00	323
82.00	1791	165.00	2629	247.00	903	359.00	130
83.00	1360	166.00	192	248.00	187	363.00	55
84.00	302	167.00	11280	249.00	661	365.00	7506
85.00	1510	168.00	5530	250.00	207	366.00	1015
86.00	2503	169.00	877	251.00	345	367.00	54
87.00	1112	170.00	471	252.00	760	370.00	164
88.00	580	171.00	524	253.00	783	371.00	83
89.00	166	172.00	1300	255.00	95704	372.00	2101
90.00	94	173.00	1190	256.00	14126	373.00	444
91.00	2027	174.00	2389	257.00	684	374.00	53
92.00	1742	175.00	3805	258.00	7284	383.00	534
93.00	16944	176.00	1140	259.00	1311	384.00	206
94.00	1061	177.00	2068	260.00	285	390.00	310
95.00	498	178.00	121	261.00	248	391.00	116
96.00	744	179.00	9217	263.00	51	392.00	80
97.00	105	180.00	5245	264.00	394	401.00	188
98.00	13048	181.00	2427	265.00	3226	402.00	800
99.00	7987	182.00	336	266.00	533	403.00	991
100.00	782	183.00	117	267.00	101	404.00	272
101.00	4015	184.00	649	268.00	230	421.00	725
102.00	170	185.00	4154	270.00	167	422.00	760
103.00	1762	186.00	24536	271.00	351	423.00	5719
104.00	3334	187.00	7737	272.00	291	424.00	1031
105.00	3255	188.00	958	273.00	3625	436.00	73
107.00	33280	189.00	2040	274.00	8172	437.00	140
108.00	4717	190.00	488	275.00	40136	438.00	59
110.00	57000	191.00	1070	276.00	5231	439.00	72

Data File: /chem/BNAMS7.i/8270/10-27-00/27oct00.b/13219.d

Date : 27-OCT-2000 08:54

Client ID:

Instrument: BNAMS7.i

Sample Info: LDFT301

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: 13219.d

Spectrum: Average Spectrum: 7.247 to 7.267 min.

Location of Maximum: 198.00

Number of points: 309

m/z	Y	m/z	Y	m/z	Y	m/z	Y
111.00	9225	192.00	2755	277.00	4565	441.00	13334
112.00	1234	193.00	2859	278.00	673	442.00	88440
113.00	620	194.00	546	279.00	51	443.00	16864
114.00	178	196.00	4689	281.00	152	444.00	1474
115.00	372	198.00	175808	282.00	130	445.00	57
117.00	38600	199.00	12304	283.00	390		
118.00	2531	200.00	932	284.00	293		
119.00	508	201.00	419	285.00	725		

Data File: /chem/BNAMS7.i/8270/10-27-00/27oct00.b/l3219.d

Date : 27-OCT-2000 08:54

Client ID:

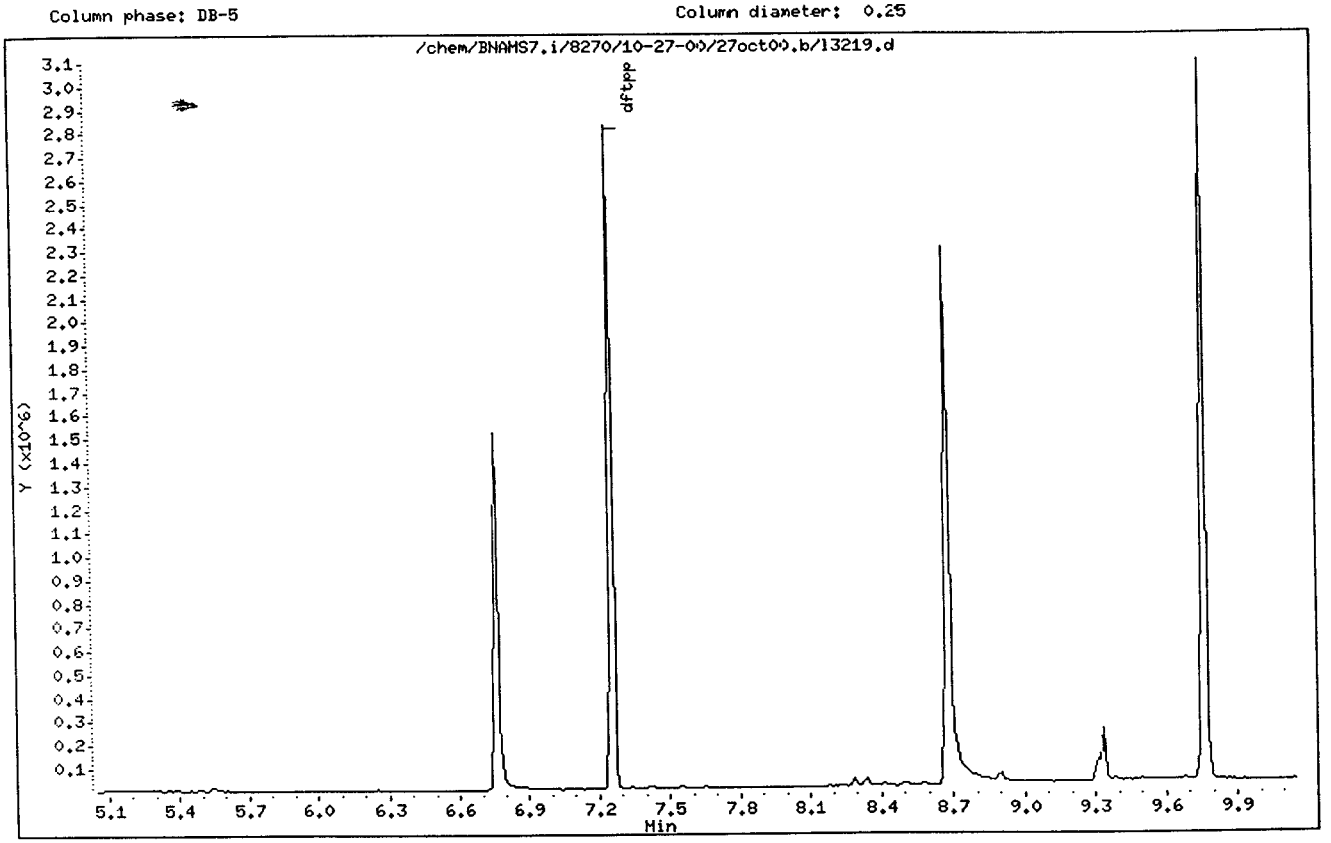
Instrument: BNAMS7.i

Sample Info: LDFT301

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25



SEMI-VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab File ID: L3247

DFTPP Injection Date: 10/30/00

Instrument ID: BNAMS7

DFTPP Injection Time: 1415

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	47.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	68.9
70	Less than 2.0% of mass 69	1.1 (1.5)1
127	40.0 - 60.0% of mass 198	57.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	23.7
365	Greater than 1.0% of mass 198	4.93
441	0.0 - 100.0% of mass 443	7.0 (85.2)2
442	40.0 - 110.0% of mass 198	45.1
443	17.0 - 23.0% of mass 442	8.2 (18.2)3

1-Value is % mass 69
2-Value is % mass 443
3-Value is % mass 442

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

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	LSTD304A	LSTD304A	L3248	10/30/00	1432
02	SB302	SB302	L3249	10/30/00	1521
03	TPE-3MS	237820MS	L3252	10/30/00	1748
04	TPE-3MSD	237820MSD	L3253	10/30/00	1837
05	EB-5_1.2-1.7	237816	L3254	10/30/00	1926
06	EB-1_6-12	237812	L3255	10/30/00	2015
07	TPE-1	237818	L3256	10/30/00	2103
08	TPE-2	237819	L3257	10/30/00	2152
09	ES-1_ELSHAFT	237829	L3258	10/30/00	2241
10	EB-2_CATCH_B	237813	L3259	10/30/00	2329
11					
12					
13					
14					
15					
16					
17					
18					

Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13247.d

Date : 30-OCT-2000 14:15

Client ID:

Instrument: BNAMS7.i

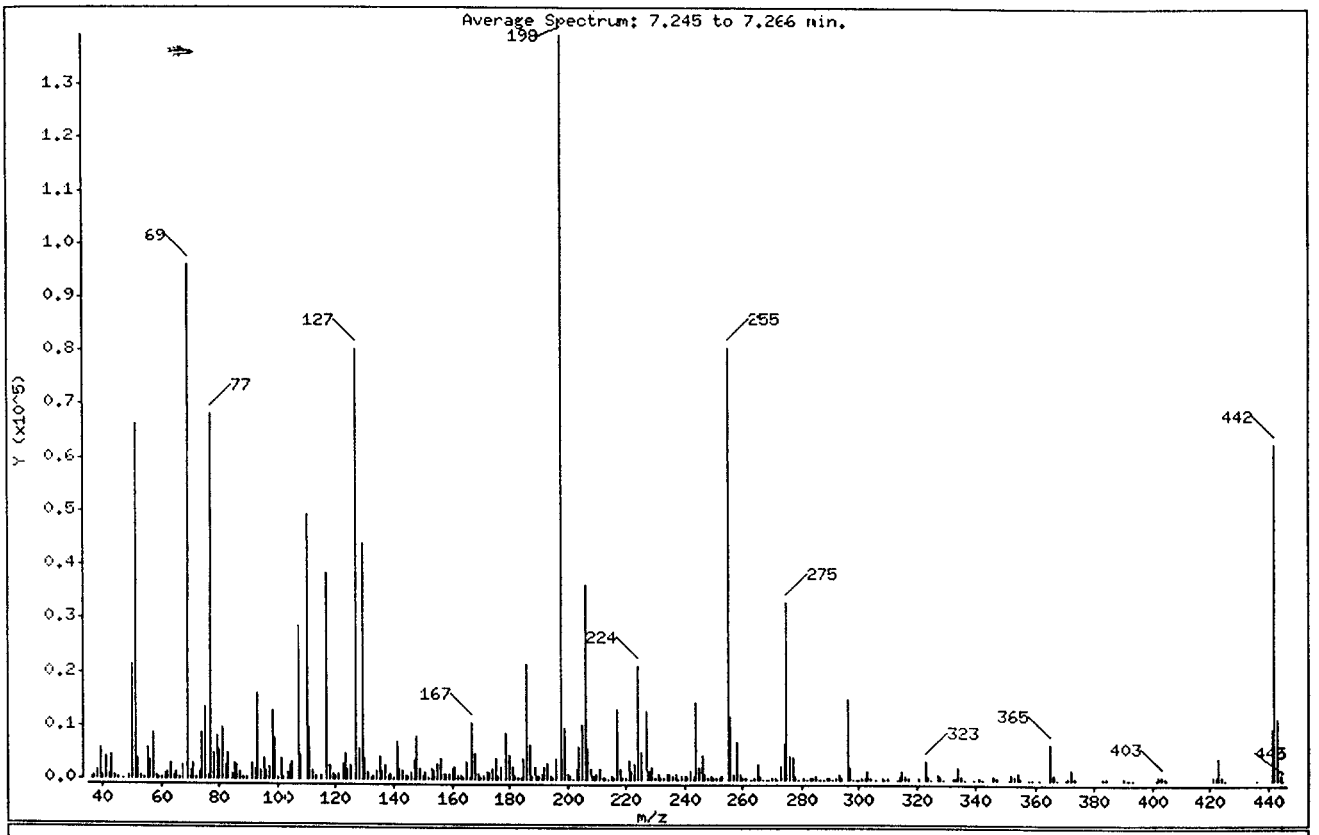
Sample Info: LDFT304A

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	47.51
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	68.94
70	Less than 2.00% of mass 69	1.05 (1.53)
127	40.00 - 60.00% of mass 198	57.71
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.87
275	10.00 - 30.00% of mass 198	23.70
365	Greater than 1.00% of mass 198	4.93
441	0.01 - 100.00% of mass 443	6.99 (85.24)
442	40.00 - 110.00% of mass 198	45.08
443	17.00 - 23.00% of mass 442	8.20 (18.19)

Data File: /chem/BNAHS7.i/8270/10-27-00/30oct00A.b/13247.d

Date : 30-OCT-2000 14:15

Client ID:

Sample Info: LDFT304A

Instrument: BNAHS7.i

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: 13247.d

Spectrum: Average Spectrum: 7.245 to 7.266 min.

Location of Maximum: 198.00

Number of points: 316

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	292	124.00	2025	207.00	5638	291.00	147
37.00	535	125.00	2683	208.00	2037	292.00	277
38.00	1496	127.00	80424	209.00	717	293.00	922
39.00	5659	128.00	5849	210.00	1089	294.00	260
40.00	518	129.00	44000	211.00	1777	296.00	14952
41.00	4018	130.00	3809	212.00	255	297.00	2142
42.00	910	131.00	1337	213.00	196	298.00	144
43.00	4564	132.00	452	214.00	137	299.00	57
44.00	595	133.00	558	215.00	784	300.00	51
45.00	358	134.00	1732	216.00	169	301.00	204
47.00	61	135.00	4059	217.00	13167	302.00	191
49.00	641	136.00	1528	218.00	1788	303.00	1588
50.00	21328	137.00	2584	219.00	312	304.00	362
51.00	66208	138.00	707	220.00	161	306.00	51
52.00	3932	139.00	842	221.00	3622	308.00	231
53.00	554	140.00	353	222.00	1715	309.00	126
54.00	377	141.00	6981	223.00	2946	310.00	197
55.00	5867	142.00	1881	224.00	21200	313.00	156
56.00	3649	143.00	1580	225.00	5054	314.00	621
57.00	8685	144.00	502	227.00	12807	315.00	1728
58.00	605	145.00	701	228.00	1676	316.00	775
59.00	276	146.00	1142	229.00	2141	317.00	266
60.00	331	147.00	3485	230.00	411	321.00	335
61.00	1095	148.00	8149	231.00	891	323.00	3604
62.00	1246	149.00	1867	232.00	238	324.00	573
63.00	2968	150.00	506	233.00	408	325.00	56
64.00	526	151.00	1408	234.00	989	327.00	844
65.00	1262	152.00	368	235.00	945	328.00	481
66.00	358	153.00	2033	236.00	510	329.00	62
67.00	2481	154.00	1466	237.00	872	332.00	403
69.00	96080	155.00	2795	238.00	145	333.00	162
70.00	1466	156.00	3864	239.00	716	334.00	2307
71.00	2731	157.00	1036	240.00	500	335.00	523
72.00	267	158.00	962	241.00	784	336.00	56
73.00	1390	159.00	1089	242.00	1476	339.00	61

Data File: /chem/BNAHS7.i/8270/10-27-00/30oct00A.b/13247.d

Date : 30-OCT-2000 14:15

Client ID:

Instrument: BNAHS7.i

Sample Info: LDFT304A

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: 13247.d

Spectrum: Average Spectrum: 7.245 to 7.266 min.

Location of Maximum: 198.00

Number of points: 316

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	8594	160.00	1965	243.00	557	341.00	405
75.00	13350	161.00	2300	244.00	14415	342.00	124
76.00	645	162.00	728	245.00	2286	346.00	628
77.00	68096	163.00	547	246.00	4371	347.00	208
78.00	4713	164.00	472	247.00	922	351.00	61
79.00	8111	165.00	3129	248.00	251	352.00	1005
80.00	5576	166.00	452	249.00	692	353.00	627
81.00	9608	167.00	10447	250.00	224	354.00	1144
82.00	2710	168.00	4834	251.00	324	355.00	208
83.00	4960	169.00	864	252.00	436	358.00	59
84.00	1013	170.00	418	253.00	774	359.00	57
85.00	3014	171.00	550	255.00	80608	361.00	63
86.00	2626	172.00	1292	256.00	11806	365.00	6867
87.00	1210	173.00	1376	257.00	1059	366.00	886
88.00	377	174.00	1989	258.00	6987	367.00	51
89.00	215	175.00	3885	259.00	995	370.00	91
91.00	2769	176.00	701	260.00	297	371.00	247
92.00	1888	177.00	2157	261.00	324	372.00	1861
93.00	16086	179.00	8566	263.00	115	373.00	411
94.00	1500	180.00	4558	264.00	387	383.00	419
95.00	3817	181.00	2192	265.00	3015	384.00	224
96.00	1577	182.00	566	266.00	627	390.00	191
97.00	2184	183.00	303	267.00	63	391.00	145
98.00	12782	184.00	383	268.00	147	392.00	63
99.00	7681	185.00	3691	269.00	57	393.00	53
100.00	371	186.00	21560	270.00	292	401.00	56
101.00	3873	187.00	6557	271.00	216	402.00	777
102.00	261	188.00	789	272.00	155	403.00	781
103.00	1375	189.00	2184	273.00	2524	404.00	287
104.00	2583	190.00	505	274.00	6730	405.00	56
105.00	3229	191.00	1006	275.00	33024	421.00	755
107.00	28640	192.00	2317	276.00	4507	422.00	600
108.00	4590	193.00	2851	277.00	4219	423.00	4040
110.00	49352	194.00	702	278.00	745	424.00	752
111.00	9498	195.00	355	279.00	145	425.00	69

Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13247.d

Date : 30-OCT-2000 14:15

Client ID:

Instrument: BNAMS7.i

Sample Info: LDFT304A

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: 13247.d

Spectrum: Average Spectrum: 7.245 to 7.266 min.

Location of Maximum: 198.00

Number of points: 316

m/z	Y	m/z	Y	m/z	Y	m/z	Y
112.00	1547	196.00	3716	281.00	192	436.00	51
113.00	687	198.00	139328	282.00	104	441.00	9740
115.00	481	199.00	9568	283.00	376	442.00	62832
117.00	38344	200.00	891	284.00	324	443.00	11427
118.00	2416	201.00	625	285.00	777	444.00	1033
119.00	992	202.00	57	286.00	50	445.00	53
120.00	657	203.00	1915	287.00	57		
121.00	944	204.00	5959	288.00	122		
122.00	2744	205.00	10263	289.00	294		
123.00	4790	206.00	36232	290.00	216		

Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13247.d

Date : 30-OCT-2000 14:15

Client ID:

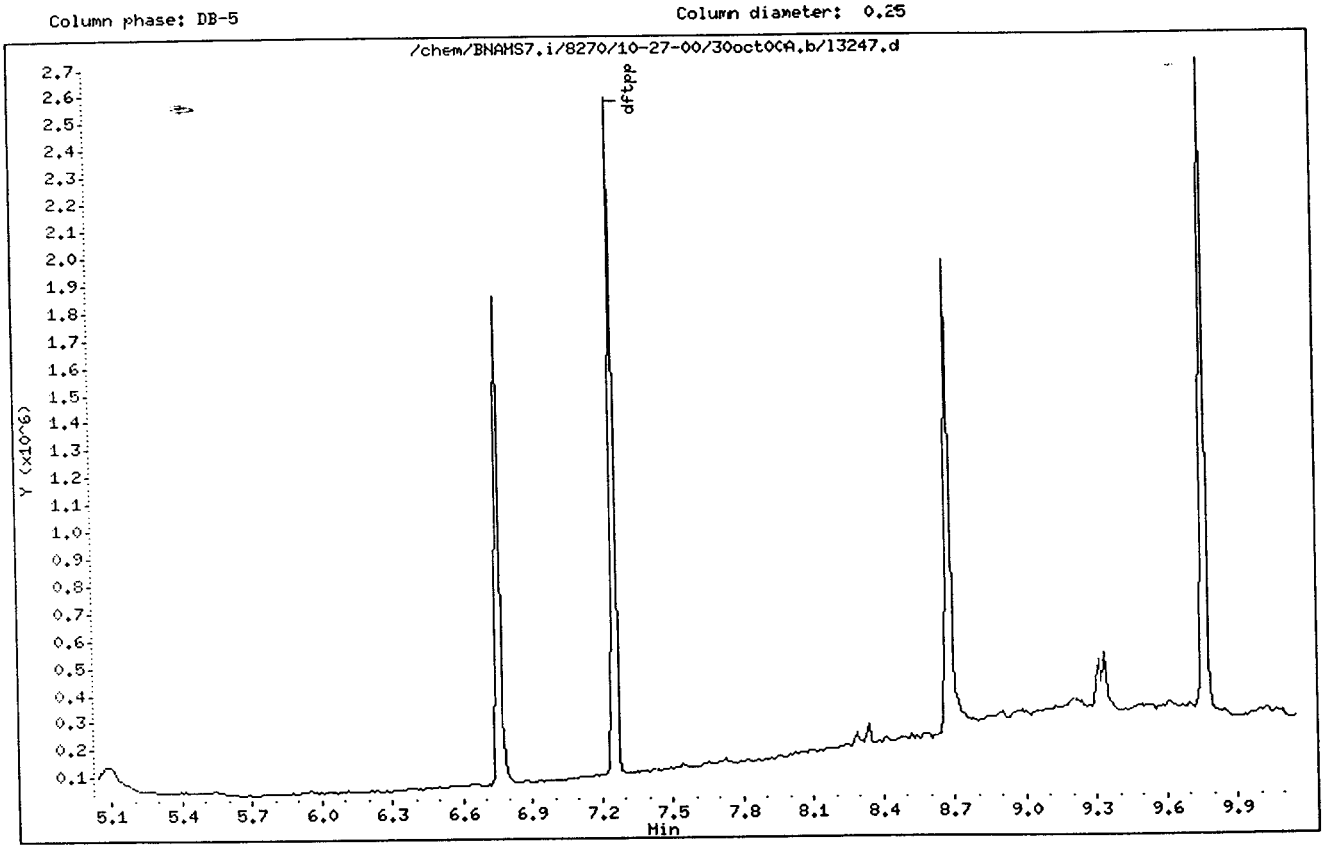
Instrument: BNAMS7.i

Sample Info: LDFT304A

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25



SEMI-VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab File ID: L3264

DFTPP Injection Date: 10/31/00

Instrument ID: BNAMS7

DFTPP Injection Time: 0551

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	49.8
68	Less than 2.0% of mass 69	0.1 (0.1)1
69	Mass 69 relative abundance	67.8
70	Less than 2.0% of mass 69	0.7 (1.0)1
127	40.0 - 60.0% of mass 198	57.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	23.4
365	Greater than 1.0% of mass 198	5.43
441	0.0 - 100.0% of mass 443	5.9 (76.9)2
442	40.0 - 110.0% of mass 198	40.6
443	17.0 - 23.0% of mass 442	7.7 (19.0)3

1-Value is % mass 69
2-Value is % mass 443
3-Value is % mass 442

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

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	LSTD305	LSTD305	L3265	10/31/00	0609
02	RC-1_2ND_FLR	237825	L3266	10/31/00	0701
03	EB-6_OUTFALL	237817	L3267	10/31/00	0750
04	RC-2_3RD_FLR	237826	L3268	10/31/00	0838
05	EB-4_1.5-2	237815	L3269	10/31/00	0927
06	EB-4_16-16.5	237839	L3270	10/31/00	1016
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					

Data File: /chem/BNAHS7.i/8270/10-27-00/31oct00.b/13264.d

Date : 31-OCT-2000 05:51

Client ID:

Instrument: BNAHS7.i

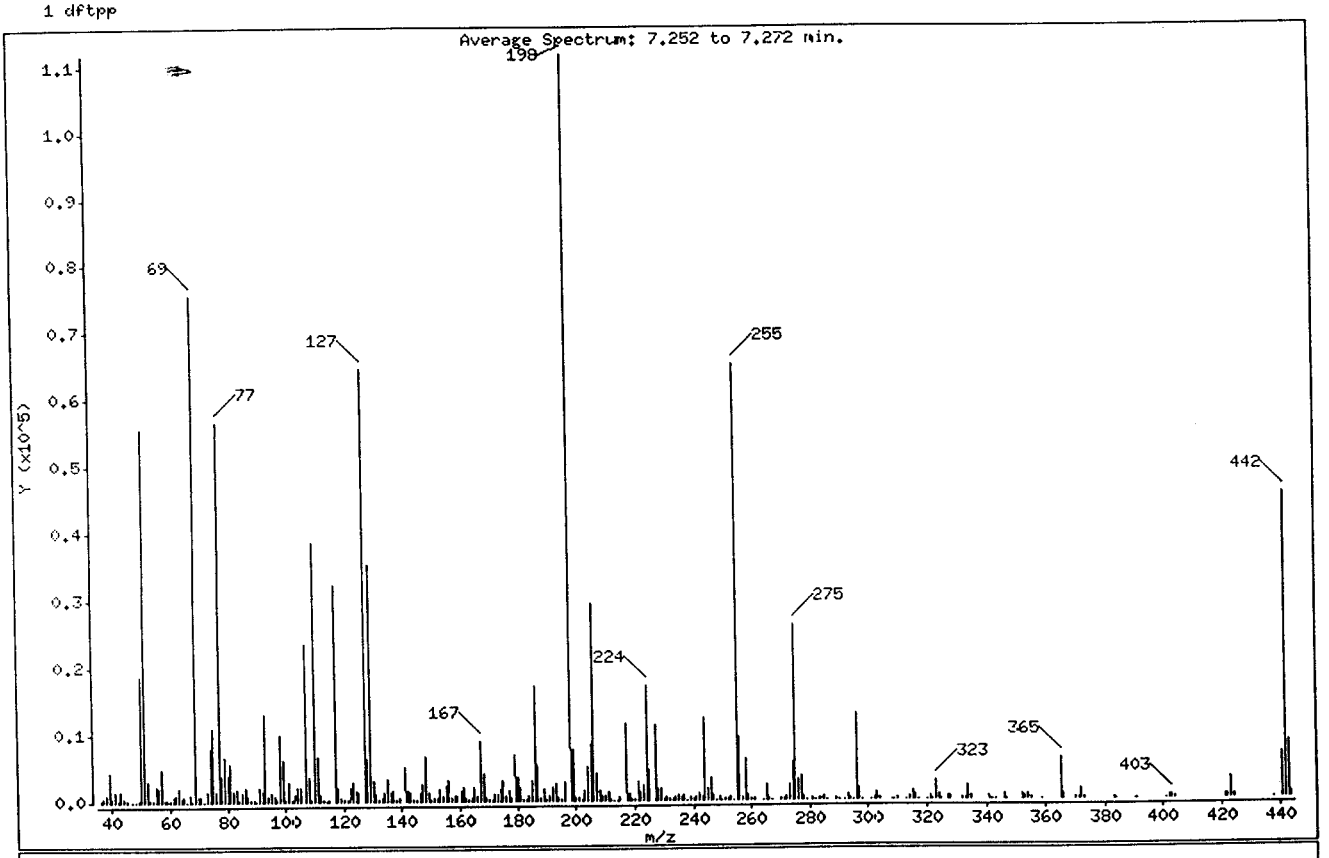
Sample Info: LDFT305

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	49.83
68	Less than 2.00% of mass 69	0.09 (0.14)
69	Mass 69 relative abundance	67.84
70	Less than 2.00% of mass 69	0.66 (0.97)
127	40.00 - 60.00% of mass 198	57.95
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.79
275	10.00 - 30.00% of mass 198	23.40
365	Greater than 1.00% of mass 198	5.43
441	0.01 - 100.00% of mass 443	5.92 (76.92)
442	40.00 - 110.00% of mass 198	40.58
443	17.00 - 23.00% of mass 442	7.70 (18.97)

Data File: /chem/BNAHS7.i/8270/10-27-00/31oct00.b/13264.d

Date : 31-OCT-2000 05:51

Client ID:

Instrument: BNAHS7.i

Sample Info: LDFT305

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: 13264.d

Spectrum: Average Spectrum: 7.252 to 7.272 min.

Location of Maximum: 198.00

Number of points: 304

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	217	115.00	271	195.00	220	279.00	75
37.00	425	117.00	32376	196.00	2905	281.00	190
38.00	949	118.00	2102	198.00	111704	282.00	60
39.00	4419	119.00	555	199.00	7584	283.00	372
40.00	390	120.00	369	200.00	620	284.00	225
41.00	1617	121.00	237	201.00	496	285.00	513
42.00	268	122.00	2144	202.00	175	286.00	92
43.00	1613	123.00	2764	203.00	1458	289.00	158
44.00	449	124.00	1617	204.00	5256	290.00	81
45.00	272	125.00	1281	205.00	8598	292.00	65
47.00	85	127.00	64728	206.00	29504	293.00	811
48.00	82	128.00	6340	207.00	4093	294.00	191
49.00	220	129.00	35440	208.00	1632	295.00	83
50.00	18624	130.00	3005	209.00	756	296.00	12855
51.00	55656	131.00	913	210.00	645	297.00	1852
52.00	3131	132.00	363	211.00	1351	298.00	81
53.00	229	133.00	435	212.00	248	301.00	113
54.00	271	134.00	1261	213.00	66	302.00	181
55.00	2297	135.00	3216	214.00	60	303.00	1085
56.00	2047	136.00	1343	215.00	472	304.00	340
57.00	4808	137.00	1471	217.00	11506	308.00	121
58.00	301	138.00	224	218.00	1118	309.00	103
59.00	207	139.00	546	219.00	252	310.00	209
60.00	333	141.00	5154	220.00	133	313.00	79
61.00	774	142.00	1477	221.00	2770	314.00	614
62.00	928	143.00	1192	222.00	1371	315.00	1330
63.00	2047	144.00	289	223.00	2357	316.00	718
64.00	448	145.00	284	224.00	17200	317.00	80
65.00	884	146.00	1162	225.00	4569	320.00	63
66.00	101	147.00	2448	227.00	11359	321.00	407
67.00	925	148.00	6707	228.00	1697	322.00	53
68.00	104	149.00	1169	229.00	1801	323.00	2864
69.00	75784	150.00	335	230.00	171	324.00	683
70.00	737	151.00	611	231.00	633	325.00	50
71.00	757	152.00	548	232.00	260	327.00	616

Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13264.d

Date : 31-OCT-2000 05:51

Client ID:

Instrument: BNAMS7.i

Sample Info: LDFT305

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: 13264.d

Spectrum: Average Spectrum: 7.252 to 7.272 min.

Location of Maximum: 198.00

Number of points: 304

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	107	153.00	1729	233.00	159	328.00	443
73.00	1435	154.00	870	234.00	630	332.00	241
74.00	7960	155.00	2359	235.00	663	333.00	307
75.00	11129	156.00	3046	236.00	637	334.00	2129
76.00	1524	157.00	550	237.00	675	335.00	443
77.00	56736	158.00	794	238.00	93	341.00	521
78.00	3919	159.00	664	239.00	409	342.00	60
79.00	6663	160.00	1432	240.00	318	343.00	61
80.00	3756	161.00	1961	241.00	637	346.00	680
81.00	5538	162.00	613	242.00	956	347.00	105
82.00	1493	163.00	178	243.00	556	352.00	868
83.00	1700	164.00	407	244.00	12313	353.00	527
84.00	242	165.00	2011	245.00	1692	354.00	774
85.00	1388	166.00	867	246.00	3431	355.00	203
86.00	1947	167.00	9027	247.00	717	359.00	61
87.00	834	168.00	4052	248.00	125	365.00	6065
88.00	199	169.00	612	249.00	449	366.00	795
89.00	158	170.00	311	250.00	102	370.00	174
90.00	91	171.00	381	251.00	132	371.00	323
91.00	2044	172.00	1030	252.00	226	372.00	1468
92.00	1611	173.00	1058	253.00	611	373.00	353
93.00	13148	174.00	1804	254.00	71	383.00	335
94.00	700	175.00	3096	255.00	65200	384.00	69
95.00	1267	176.00	690	256.00	9614	390.00	104
96.00	737	177.00	1633	257.00	424	391.00	89
97.00	281	178.00	463	258.00	6177	401.00	72
98.00	9917	179.00	7029	259.00	835	402.00	528
99.00	6191	180.00	3716	260.00	250	403.00	624
100.00	326	181.00	2012	261.00	140	404.00	224
101.00	2917	182.00	356	264.00	113	421.00	508
102.00	195	183.00	294	265.00	2438	422.00	507
103.00	1090	184.00	759	266.00	345	423.00	2961
104.00	2107	185.00	2988	267.00	50	424.00	627
105.00	2103	186.00	17128	270.00	213	438.00	56
107.00	23656	187.00	5278	271.00	200	441.00	6614

Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13264.d

Date : 31-OCT-2000 05:51

Client ID:

Instrument: BNAMS7.i

Sample Info: LDFT305

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: 13264.d

Spectrum: Average Spectrum: 7.252 to 7.272 min.

Location of Maximum: 198.00

Number of points: 304

m/z	Y	m/z	Y	m/z	Y	m/z	Y
108.00	3490	188.00	465	272.00	463	442.00	45328
109.00	133	189.00	1842	273.00	2191	443.00	8598
110.00	38744	190.00	349	274.00	5629	444.00	693
111.00	6637	191.00	674	275.00	26136		
112.00	901	192.00	2018	276.00	3156		
113.00	328	193.00	2601	277.00	3618		
114.00	123	194.00	431	278.00	638		

Data File: /chem/BNAHS7.i/8270/10-27-00/31oct00.b/13264.d

Date : 31-OCT-2000 05:51

Client ID:

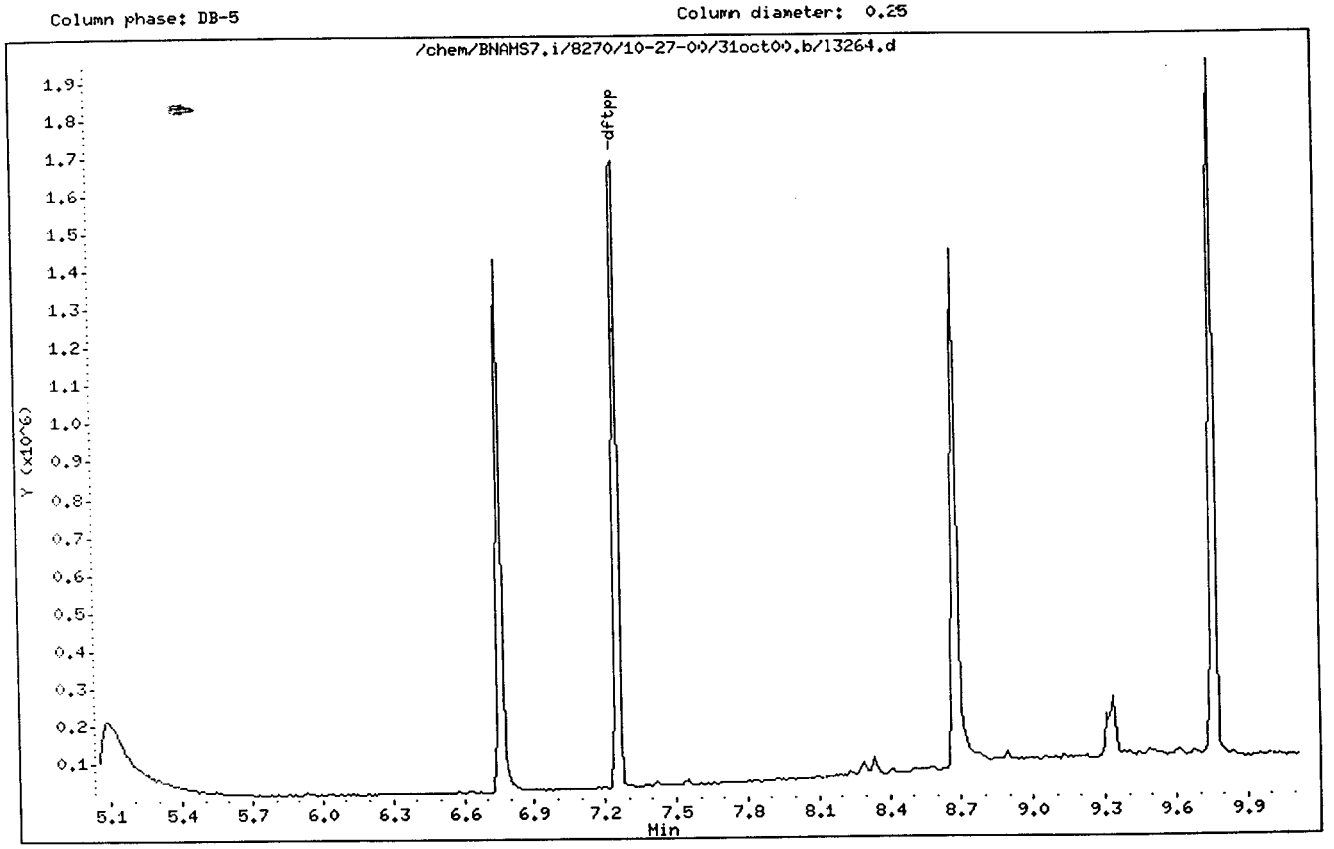
Instrument: BNAHS7.i

Sample Info: LDFT305

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25



SEMI-VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab File ID: L3278

DFTPP Injection Date: 10/31/00

Instrument ID: BNAMS7

DFTPP Injection Time: 1500

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	44.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	62.1
70	Less than 2.0% of mass 69	0.4 (0.6)1
127	40.0 - 60.0% of mass 198	57.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.2
275	10.0 - 30.0% of mass 198	24.6
365	Greater than 1.0% of mass 198	6.34
441	0.0 - 100.0% of mass 443	7.5 (78.8)2
442	40.0 - 110.0% of mass 198	47.5
443	17.0 - 23.0% of mass 442	9.5 (19.9)3

1-Value is % mass 69
2-Value is % mass 443
3-Value is % mass 442

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

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	LSTD305A	LSTD305A	L3280	10/31/00	1607
02	EB-3_16-16.5	237814	L3292	11/01/00	0155
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					

Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00a.b/13278.d

Date : 31-OCT-2000 15:00

Client ID:

Instrument: BNAMS7.i

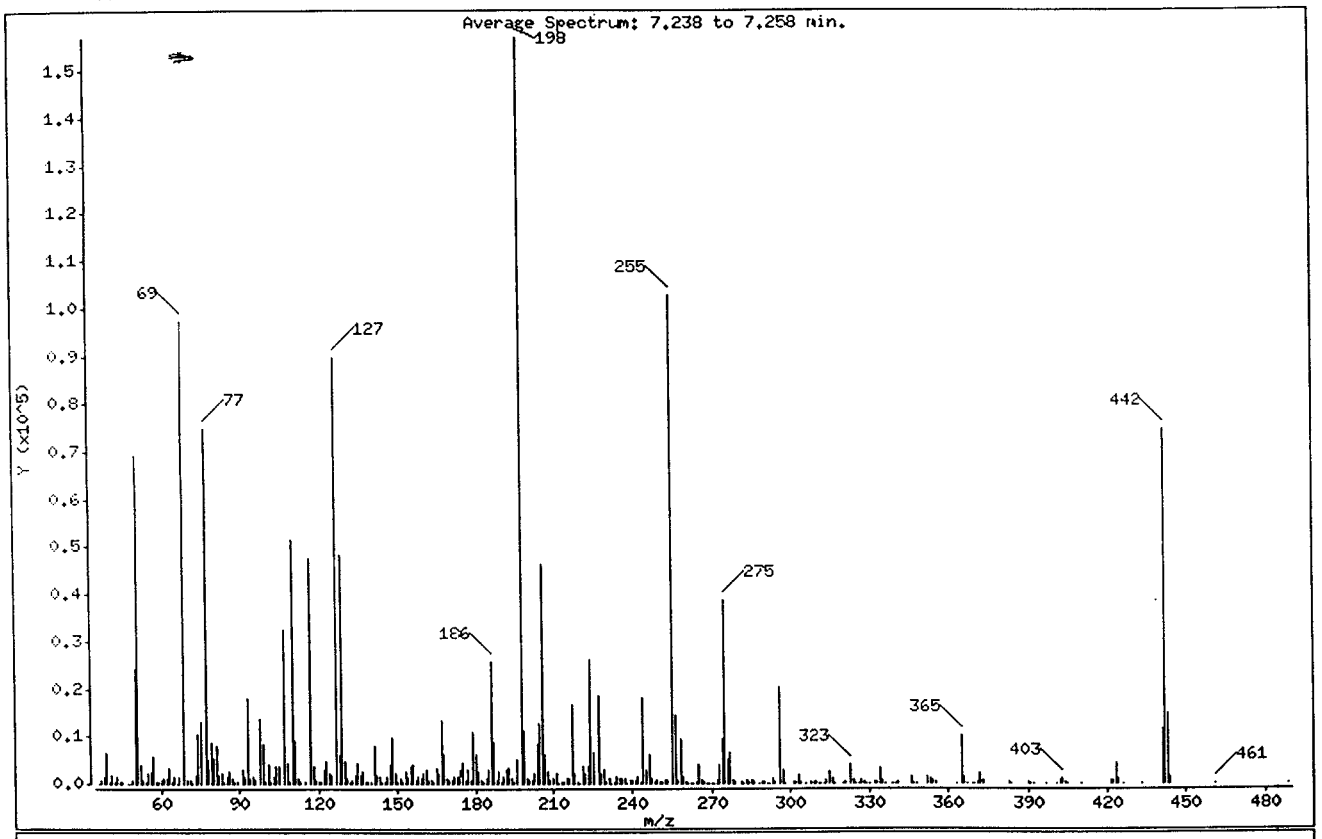
Sample Info: LDFT305A

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	44.17
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	62.12
70	Less than 2.00% of mass 69	0.36 (0.59)
127	40.00 - 60.00% of mass 198	57.11
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.18
275	10.00 - 30.00% of mass 198	24.60
365	Greater than 1.00% of mass 198	6.34
441	0.01 - 100.00% of mass 443	7.46 (78.84)
442	40.00 - 110.00% of mass 198	47.49
443	17.00 - 23.00% of mass 442	9.46 (19.93)

Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00a.b/13278.d

Date : 31-OCT-2000 15:00

Client ID:

Instrument: BNAMS7.i

Sample Info: LDFT305A

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: 13278.d

Spectrum: Average Spectrum: 7.238 to 7.258 min.

Location of Maximum: 198.00

Number of points: 321

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	148	125.00	1715	208.00	2351	293.00	1172
37.00	825	127.00	89656	209.00	869	294.00	317
38.00	1403	128.00	6284	210.00	1050	296.00	20256
39.00	6337	129.00	48480	211.00	2137	297.00	3037
40.00	441	130.00	4545	212.00	142	298.00	180
41.00	1860	131.00	1014	213.00	205	301.00	191
42.00	394	132.00	502	214.00	184	302.00	253
43.00	1503	133.00	653	215.00	1016	303.00	1924
44.00	273	134.00	1864	216.00	911	304.00	477
45.00	365	135.00	4446	217.00	16592	306.00	53
47.00	53	136.00	1915	218.00	2155	308.00	253
48.00	82	137.00	2378	219.00	239	309.00	189
49.00	578	138.00	428	220.00	64	310.00	355
50.00	24048	139.00	511	221.00	3464	311.00	87
51.00	69336	140.00	383	222.00	2137	312.00	58
52.00	4096	141.00	8106	223.00	3757	313.00	128
53.00	560	142.00	1952	224.00	25888	314.00	895
54.00	279	143.00	1419	225.00	6453	315.00	2490
55.00	2318	144.00	325	227.00	18496	316.00	974
56.00	2638	145.00	516	228.00	2219	317.00	61
57.00	5799	146.00	1299	229.00	2995	320.00	101
58.00	400	147.00	3821	230.00	481	321.00	533
59.00	253	148.00	9598	231.00	1130	323.00	4070
60.00	544	149.00	2316	232.00	126	324.00	828
61.00	1224	150.00	503	233.00	339	325.00	119
62.00	1067	151.00	1011	234.00	1303	326.00	99
63.00	3274	152.00	540	235.00	939	327.00	864
64.00	469	153.00	2525	236.00	992	328.00	407
65.00	1281	154.00	1623	237.00	907	329.00	107
66.00	100	155.00	3615	238.00	97	330.00	94
67.00	1266	156.00	4089	239.00	883	332.00	400
69.00	97528	157.00	783	240.00	757	333.00	395
70.00	573	158.00	1263	241.00	855	334.00	3381
71.00	778	159.00	982	242.00	1605	335.00	856
72.00	117	160.00	2007	243.00	342	336.00	66

Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00a.b/13278.d

Date : 31-OCT-2000 15:00

Client ID:

Instrument: BNAMS7.i

Sample Info: LDFT305A

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: 13278.d

Spectrum: Average Spectrum: 7.238 to 7.258 min.

Location of Maximum: 198.00

Number of points: 321

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	1858	161.00	2774	244.00	17944	339.00	59
74.00	10560	162.00	752	245.00	2715	340.00	110
75.00	13123	163.00	705	246.00	6061	341.00	515
77.00	75176	164.00	503	247.00	1247	346.00	1373
78.00	5008	165.00	3118	248.00	247	347.00	112
79.00	8766	166.00	2028	249.00	619	348.00	59
80.00	5525	167.00	13430	250.00	279	352.00	1414
81.00	7988	168.00	6165	251.00	313	353.00	990
82.00	1945	169.00	971	252.00	544	354.00	897
83.00	2095	170.00	655	253.00	834	355.00	292
84.00	339	171.00	683	255.00	102952	363.00	60
85.00	1478	172.00	1353	256.00	14469	365.00	9951
86.00	2421	173.00	1290	257.00	877	366.00	1523
87.00	1037	174.00	2820	258.00	9372	367.00	64
88.00	381	175.00	4470	259.00	1598	369.00	58
89.00	277	176.00	883	260.00	203	370.00	146
91.00	2921	177.00	2877	261.00	140	371.00	314
92.00	1270	178.00	560	262.00	57	372.00	2252
93.00	18184	179.00	10690	263.00	103	373.00	668
94.00	1141	180.00	6140	264.00	325	383.00	481
95.00	1346	181.00	2687	265.00	4066	384.00	162
96.00	802	182.00	712	266.00	846	390.00	194
98.00	13796	183.00	277	267.00	211	391.00	100
99.00	8267	184.00	1003	268.00	122	392.00	65
100.00	281	185.00	2882	269.00	61	397.00	51
101.00	4125	186.00	25544	270.00	169	401.00	78
102.00	399	187.00	8519	271.00	173	402.00	809
103.00	1485	188.00	806	272.00	652	403.00	1209
104.00	3553	189.00	2691	273.00	3851	404.00	389
105.00	3588	190.00	425	274.00	9403	405.00	93
107.00	32568	191.00	1541	275.00	38616	410.00	51
108.00	4461	192.00	2830	276.00	5165	421.00	742
109.00	327	193.00	3261	277.00	6424	422.00	711
110.00	51632	194.00	954	278.00	764	423.00	4194
111.00	8942	195.00	199	279.00	324	424.00	927

Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00a.b/13278.d

Date : 31-OCT-2000 15:00

Client ID:

Instrument: BNAMS7.i

Sample Info: LDFT305A

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: 13278.d

Spectrum: Average Spectrum: 7.238 to 7.258 min.

Location of Maximum: 198.00

Number of points: 321

m/z	Y	m/z	Y	m/z	Y	m/z	Y
112.00	1228	196.00	4935	281.00	302	426.00	68
113.00	500	198.00	156928	282.00	113	433.00	53
115.00	297	199.00	11272	283.00	799	441.00	11714
117.00	47536	200.00	955	284.00	385	442.00	74552
118.00	3474	201.00	602	285.00	725	443.00	14857
119.00	584	202.00	626	286.00	184	444.00	1590
120.00	355	203.00	2282	288.00	137	461.00	77
121.00	391	204.00	8197	289.00	279	489.00	64
122.00	3055	205.00	12682	290.00	224		
123.00	4547	206.00	46144	291.00	85		
124.00	2118	207.00	5965	292.00	148		

Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00a.b/13278.d

Date : 31-OCT-2000 15:00

Client ID:

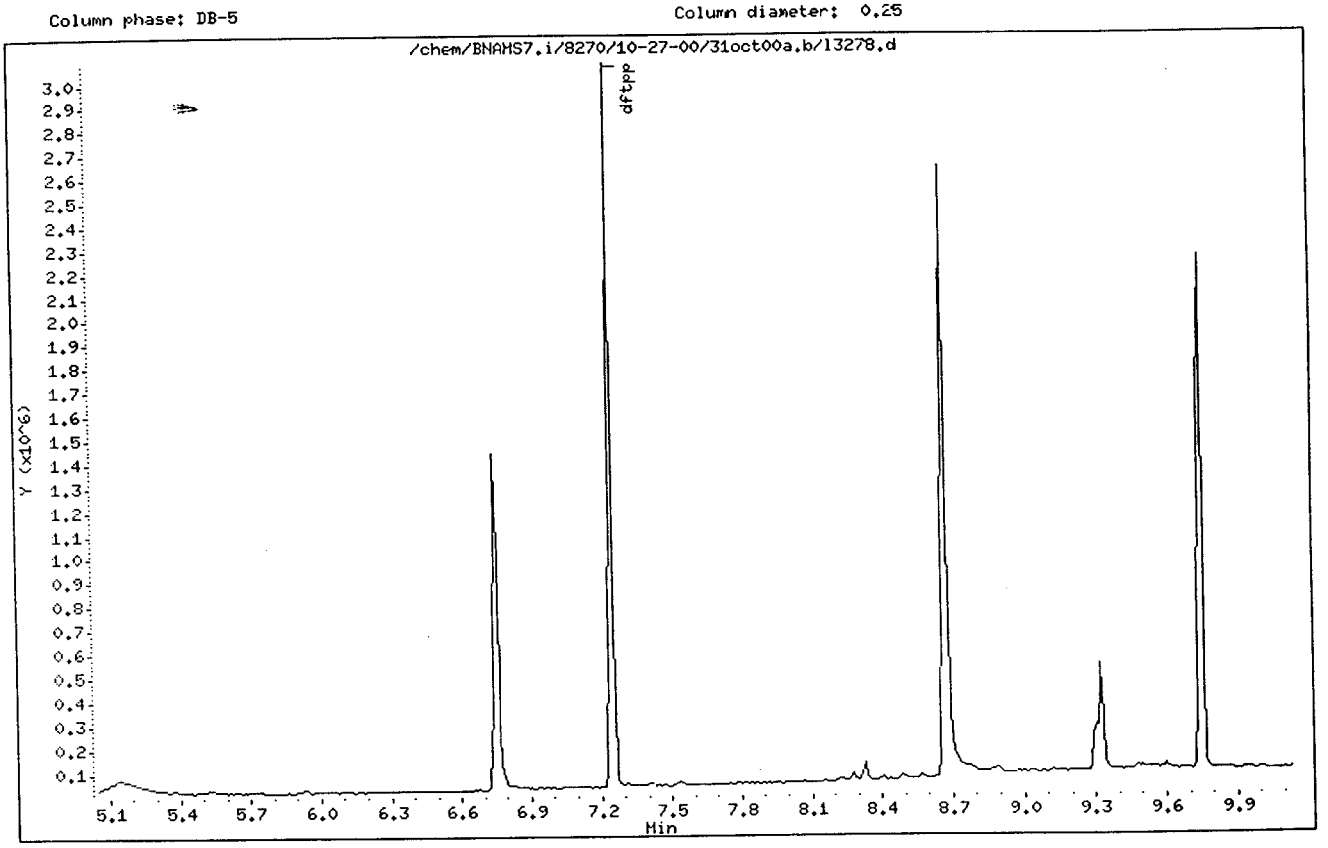
Instrument: BNAMS7.i

Sample Info: LDFT305A

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25



SEMI-VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab File ID: L3307

DFTPP Injection Date: 11/01/00

Instrument ID: BNAMS7

DFTPP Injection Time: 1207

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	52.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	69.4
70	Less than 2.0% of mass 69	0.4 (0.6)1
127	40.0 - 60.0% of mass 198	46.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	20.5
365	Greater than 1.0% of mass 198	3.44
441	0.0 - 100.0% of mass 443	7.8 (82.9)2
442	40.0 - 110.0% of mass 198	50.0
443	17.0 - 23.0% of mass 442	9.4 (18.8)3

1-Value is % mass 69
2-Value is % mass 443
3-Value is % mass 442

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

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	LSTD306	LSTD306	L3308	11/01/00	1226
02	LSTD120	LSTD120	L3309	11/01/00	1316
03	LSTD005	LSTD005	L3310	11/01/00	1405
04	LSTD080	LSTD080	L3311	11/01/00	1455
05	LSTD020	LSTD020	L3312	11/01/00	1544
06	SB305	SB305	L3314	11/01/00	1722
07	SB306	SB306	L3315	11/01/00	1811
08	TPE-3	237820	L3319	11/01/00	2126
09	RC-4_4TH_FLR	237828	L3321	11/01/00	2304
10	RC-3_3RD_FLR	237827RE	L3322	11/01/00	2353
11					
12					
13					
14					
15					
16					
17					
18					

Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/13307.d

Date : 01-NOV-2000 12:07

Client ID:

Instrument: BNAMS7.i

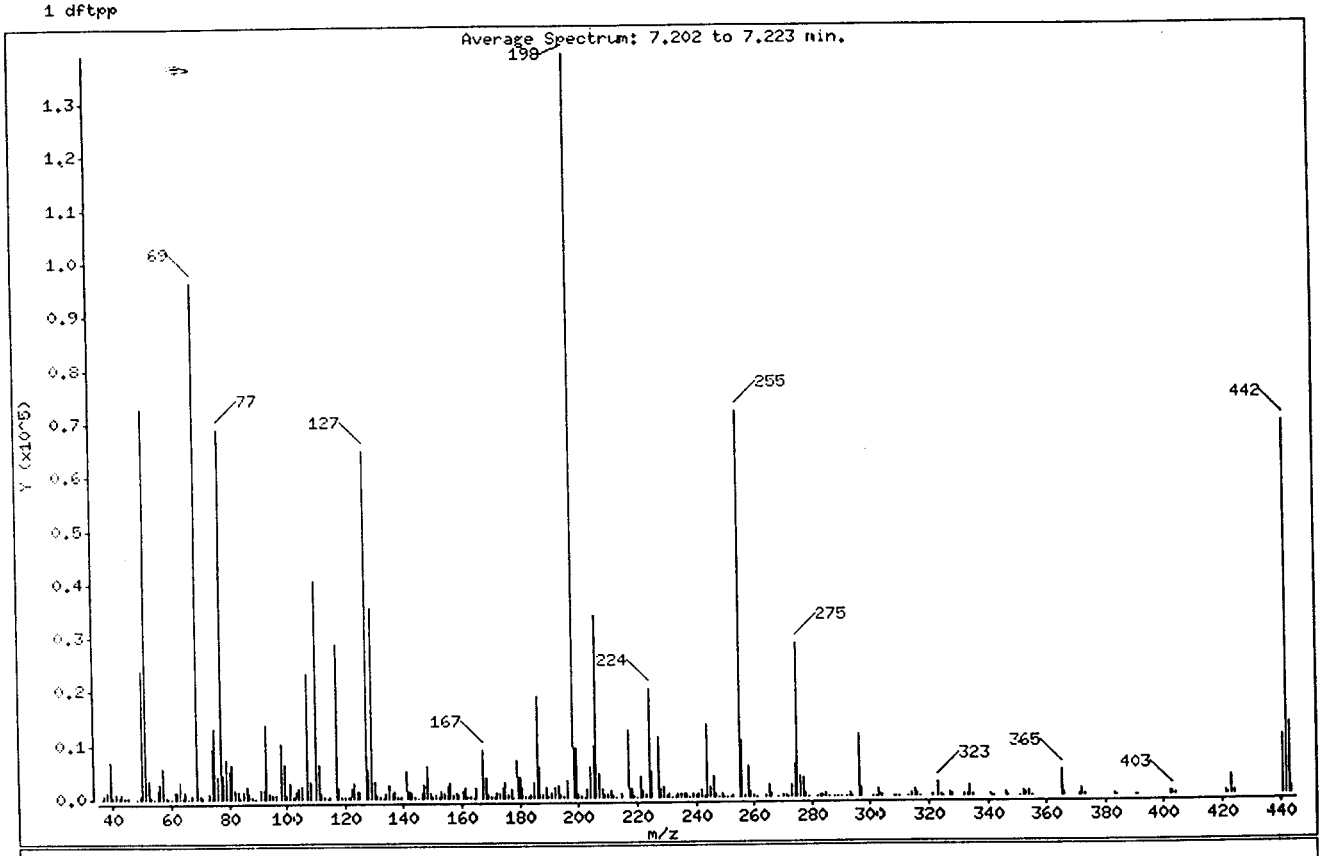
Sample Info: LDFT306

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	52.35
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	69.41
70	Less than 2.00% of mass 69	0.42 (0.61)
127	40.00 - 60.00% of mass 198	46.63
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.69
275	10.00 - 30.00% of mass 198	20.46
365	Greater than 1.00% of mass 198	3.44
441	0.01 - 100.00% of mass 443	7.76 (82.86)
442	40.00 - 110.00% of mass 198	49.95
443	17.00 - 23.00% of mass 442	9.37 (18.76)

Data File: /chem/BNAHS7.i/8270/11-01-00/01nov00.b/13307.d

Date : 01-NOV-2000 12:07

Client ID:

Instrument: I-NAHS7.i

Sample Info: LDFT306

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: 13307.d

Spectrum: Average Spectrum: 7.202 to 7.223 min.

Location of Maximum: 198.00

Number of points: 287

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	125	117.00	28696	192.00	2029	273.00	2246
37.00	520	118.00	1945	193.00	2198	274.00	6110
38.00	1435	119.00	253	194.00	500	275.00	28440
39.00	6917	120.00	272	195.00	181	276.00	3765
40.00	357	121.00	222	196.00	3240	277.00	3472
41.00	1944	122.00	1839	198.00	139008	278.00	527
42.00	236	123.00	2757	199.00	9298	279.00	87
43.00	920	124.00	1308	200.00	660	282.00	79
44.00	399	125.00	1162	201.00	378	283.00	316
45.00	199	127.00	64840	202.00	96	284.00	292
48.00	151	128.00	5344	203.00	1568	285.00	576
49.00	574	129.00	35568	204.00	5868	286.00	63
50.00	23976	130.00	3076	205.00	9529	288.00	54
51.00	72784	131.00	711	206.00	33760	289.00	85
52.00	3644	132.00	391	207.00	4552	290.00	52
53.00	216	133.00	136	208.00	1614	292.00	123
54.00	51	134.00	1083	209.00	563	293.00	659
55.00	1625	135.00	2480	210.00	696	294.00	150
56.00	2832	136.00	974	211.00	1407	296.00	11640
57.00	5860	137.00	1367	212.00	254	297.00	1603
58.00	228	138.00	374	213.00	136	301.00	144
59.00	75	139.00	234	215.00	643	302.00	156
60.00	100	141.00	4974	217.00	12519	303.00	1191
61.00	1217	142.00	1263	218.00	1561	304.00	294
62.00	1280	143.00	978	219.00	184	308.00	68
63.00	3102	144.00	232	220.00	62	309.00	109
64.00	467	145.00	95	221.00	3749	310.00	103
65.00	1307	146.00	890	222.00	1413	313.00	69
66.00	120	147.00	2474	223.00	502	314.00	493
67.00	733	148.00	6178	224.00	20192	315.00	1375
69.00	96504	149.00	1056	225.00	4908	316.00	514
70.00	589	150.00	329	227.00	11248	317.00	74
71.00	402	151.00	518	228.00	1690	321.00	297
73.00	970	152.00	295	229.00	1920	323.00	2593
74.00	9248	153.00	1375	230.00	361	324.00	409

Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/13307.d

Date : 01-NOV-2000 12:07

Client ID:

Instrument: BNAMS7.i

Sample Info: LDFT306

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: 13307.d

Spectrum: Average Spectrum: 7.202 to 7.223 min.

Location of Maximum: 198.00

Number of points: 287

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	13025	154.00	956	231.00	734	325.00	51
76.00	4100	155.00	2309	232.00	117	327.00	625
77.00	68896	156.00	2922	233.00	258	328.00	285
78.00	4383	157.00	542	234.00	738	332.00	220
79.00	7347	158.00	842	235.00	664	333.00	340
80.00	5103	159.00	597	236.00	516	334.00	1863
81.00	6315	160.00	1431	237.00	717	335.00	442
82.00	1567	161.00	1848	238.00	148	341.00	276
83.00	1389	162.00	461	239.00	489	342.00	58
84.00	152	163.00	213	240.00	251	346.00	674
85.00	1196	164.00	62	241.00	627	347.00	75
86.00	2097	165.00	2004	242.00	1215	351.00	64
87.00	872	167.00	8935	243.00	253	352.00	841
88.00	280	168.00	3808	244.00	13531	353.00	496
89.00	139	169.00	723	245.00	1878	354.00	818
91.00	1705	170.00	262	246.00	3826	355.00	132
92.00	1708	171.00	407	247.00	771	365.00	4782
93.00	13870	172.00	1009	248.00	99	366.00	487
94.00	935	173.00	950	249.00	559	371.00	173
95.00	592	174.00	1832	250.00	78	372.00	1303
96.00	565	175.00	2959	251.00	107	373.00	257
98.00	10249	176.00	691	252.00	90	383.00	379
99.00	6301	177.00	1538	253.00	360	384.00	51
100.00	565	178.00	117	255.00	72000	390.00	152
101.00	3008	179.00	6887	256.00	10475	391.00	125
102.00	200	180.00	3859	257.00	181	402.00	537
103.00	1214	181.00	1980	258.00	5834	403.00	591
104.00	2054	182.00	263	259.00	908	404.00	270
105.00	2190	183.00	160	260.00	168	421.00	554
107.00	23240	184.00	701	261.00	86	422.00	468
108.00	3227	185.00	2799	264.00	413	423.00	3579
110.00	40512	186.00	18784	265.00	2309	424.00	791
111.00	6399	187.00	5884	266.00	487	441.00	10795
112.00	840	188.00	526	268.00	154	442.00	69448
113.00	351	189.00	1801	270.00	175	443.00	13028

Data File: /chem/BNAHS7.i/8270/11-01-00/01nov00.b/13307.d

Date : 01-NOV-2000 12:07

Client ID:

Instrument: BNAHS7.i

Sample Info: LDFT306

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: 13307.d

Spectrum: Average Spectrum: 7.202 to 7.223 min.

Location of Maximum: 198.00

Number of points: 287

m/z	Y	m/z	Y	m/z	Y	m/z	Y
114.00	64	190.00	240	271.00	168	444.00	1299
115.00	164	191.00	924	272.00	58		

Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/13307.d

Date : 01-NOV-2000 12:07

Client ID:

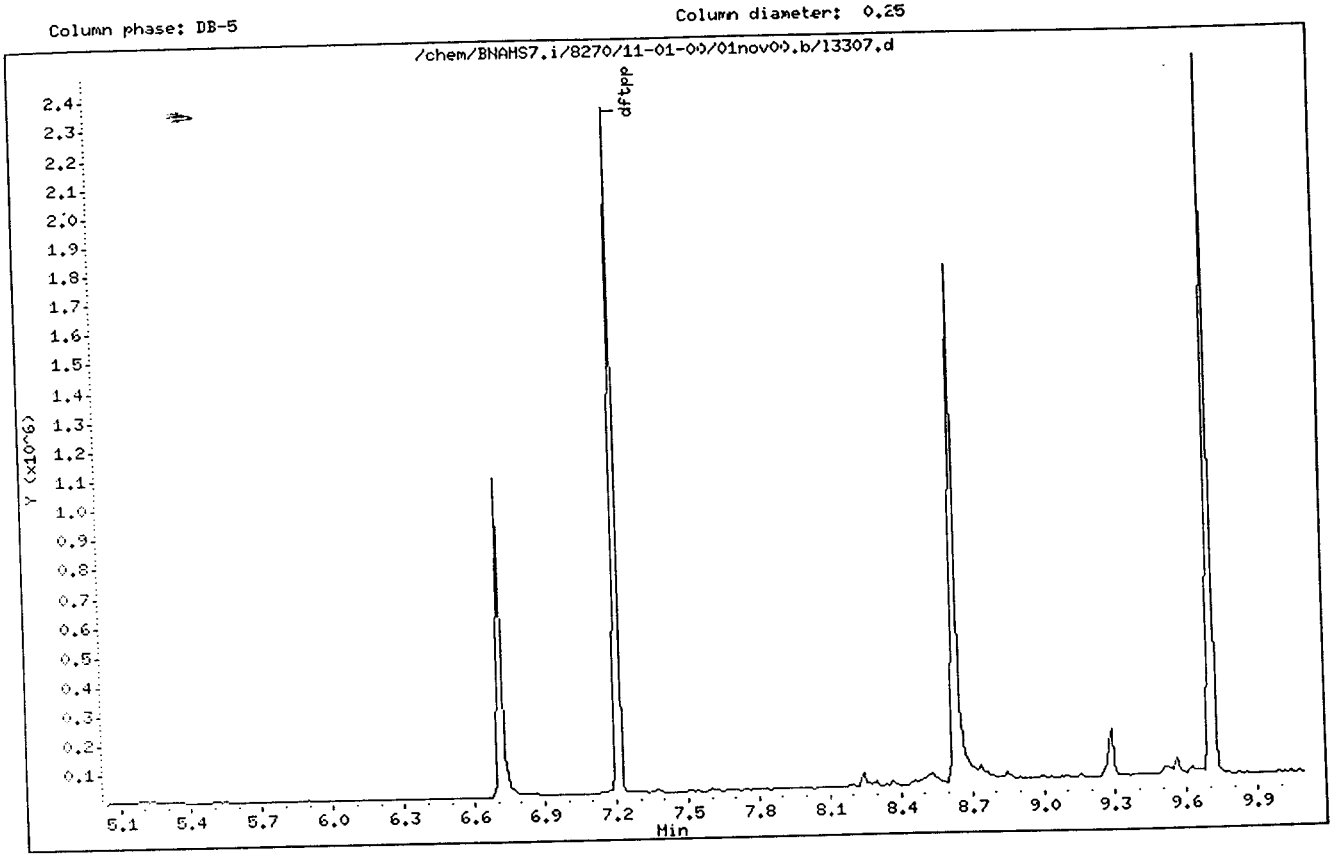
Sample Info: LDFT306

Instrument: BNAMS7.i

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25



SEMI-VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab File ID: L3444

DFTPP Injection Date: 11/09/00

Instrument ID: BNAMS7

DFTPP Injection Time: 1048

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	47.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	51.7
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	43.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	22.2
365	Greater than 1.0% of mass 198	3.65
441	0.0 - 100.0% of mass 443	0.1 (0.9)2
442	40.0 - 110.0% of mass 198	58.9
443	17.0 - 23.0% of mass 442	11.6 (19.6)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

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

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	LSTD314	LSTD314	L3445	11/09/00	1109
02	LSTD120	LSTD120	L3446	11/09/00	1158
03	LSTD005	LSTD005	L3447	11/09/00	1247
04	LSTD020	LSTD020	L3448	11/09/00	1336
05	LSTD080	LSTD080	L3449	11/09/00	1425
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					

Data File: /chem/BNAHS7.i/8270/11-09-00/09nov00.b/13444.d

Date : 09-NOV-2000 10:48

Client ID:

Instrument: BNAHS7.i

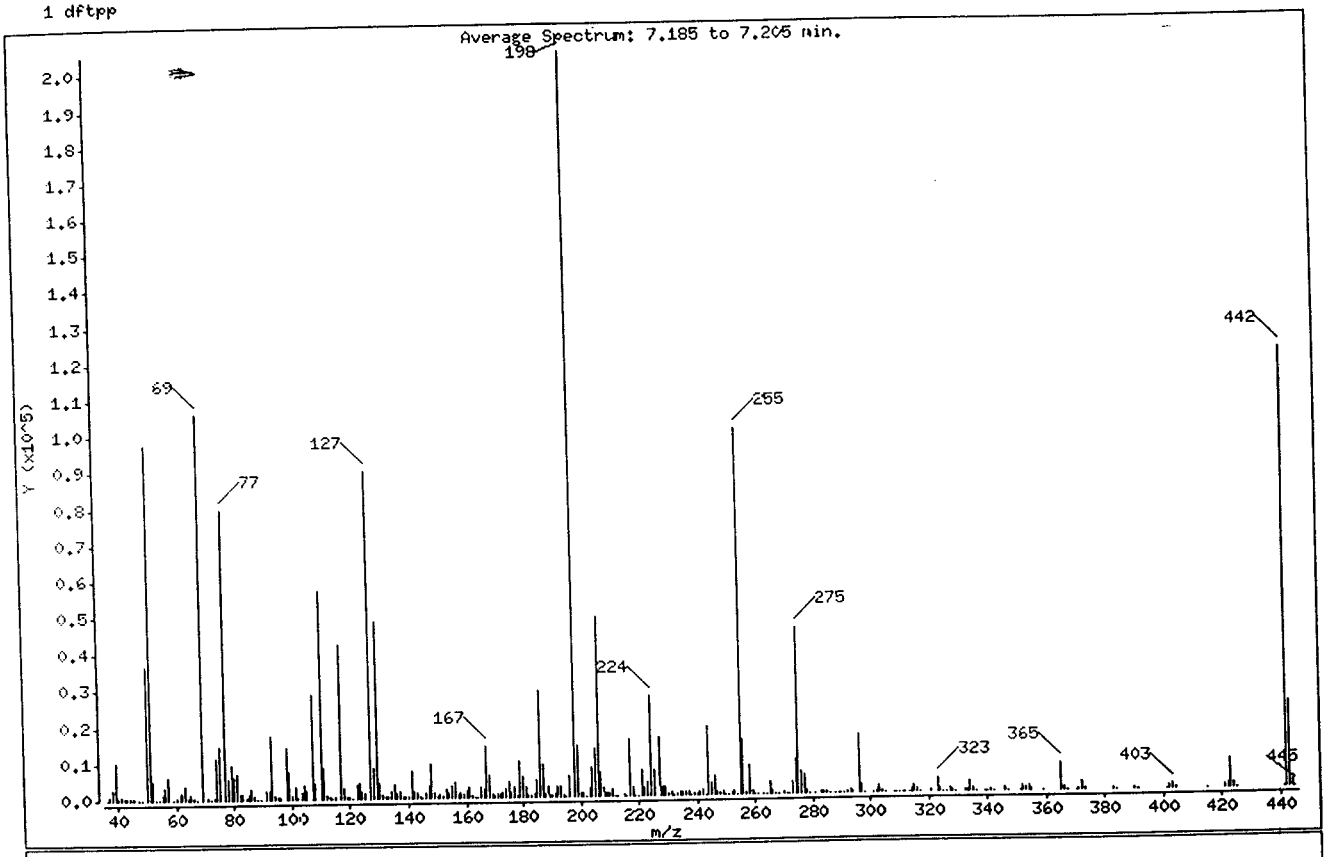
Sample Info: LDFT314

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	47.51
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	51.70
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	43.91
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.88
275	10.00 - 30.00% of mass 198	22.16
365	Greater than 1.00% of mass 198	3.65
441	0.01 - 100.00% of mass 443	0.10 (0.90)
442	40.00 - 110.00% of mass 198	58.94
443	17.00 - 23.00% of mass 442	11.58 (19.65)

Data File: /chem/BNAMS7.i/8270/11-09-00/09nov00.b/13444.d

Date : 09-NOV-2000 10:48

Client ID:

Instrument: BNAMS7.i

Sample Info: LDFT314

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: 13444.d

Spectrum: Average Spectrum: 7.185 to 7.205 min.

Location of Maximum: 198.00

Number of points: 309

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	85	125.00	1635	205.00	13026	290.00	181
37.00	1098	127.00	90208	206.00	49024	291.00	175
38.00	2672	128.00	8703	207.00	6602	292.00	240
39.00	10401	129.00	48824	208.00	2253	293.00	922
40.00	290	130.00	4344	209.00	742	294.00	373
41.00	777	131.00	935	210.00	1110	296.00	16105
42.00	254	132.00	564	211.00	2075	297.00	2482
43.00	547	133.00	416	212.00	199	298.00	204
44.00	467	134.00	1766	213.00	176	301.00	200
45.00	415	135.00	3874	215.00	700	302.00	246
47.00	142	136.00	1639	216.00	75	303.00	1748
48.00	133	137.00	1701	217.00	15643	304.00	404
50.00	36880	138.00	313	218.00	2254	305.00	62
51.00	97592	139.00	341	219.00	203	308.00	204
52.00	5213	140.00	384	220.00	202	309.00	217
53.00	52	141.00	7701	221.00	7148	310.00	155
54.00	51	142.00	1987	222.00	2188	311.00	60
55.00	1409	143.00	1592	223.00	3889	312.00	52
56.00	3333	144.00	404	224.00	27408	313.00	193
57.00	5981	145.00	108	225.00	7191	314.00	730
59.00	76	146.00	1511	227.00	16001	315.00	1738
60.00	287	147.00	3520	228.00	2193	316.00	874
61.00	1523	148.00	9667	229.00	2571	317.00	130
62.00	1677	149.00	1569	230.00	472	321.00	458
63.00	3550	150.00	361	231.00	799	323.00	3969
64.00	395	151.00	840	232.00	198	324.00	754
65.00	1316	152.00	355	233.00	273	325.00	79
66.00	238	153.00	2287	234.00	1152	326.00	71
67.00	104	154.00	1418	235.00	806	327.00	879
69.00	106192	155.00	3527	236.00	995	328.00	450
71.00	335	156.00	4268	237.00	1103	329.00	129
72.00	165	157.00	1003	238.00	114	332.00	355
73.00	254	158.00	1336	239.00	544	333.00	531
74.00	11494	159.00	857	240.00	437	334.00	2989
75.00	14580	160.00	1756	241.00	907	335.00	744

Data File: /chem/BNAHS7.i/8270/11-09-00/09nov00.b/13444.d

Date : 09-NOV-2000 10:48

Client ID:

Instrument: I+NAHS7.i

Sample Info: LDFT314

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: 13444.d

Spectrum: Average Spectrum: 7.185 to 7.205 min.

Location of Maximum: 198.00

Number of points: 309

m/z	Y	m/z	Y	m/z	Y	m/z	Y
77.00	79624	161.00	2889	242.00	1522	336.00	60
78.00	5545	162.00	646	243.00	137	339.00	57
79.00	9646	163.00	226	244.00	18784	340.00	75
80.00	6086	164.00	145	245.00	3097	341.00	599
81.00	7196	165.00	2960	246.00	5172	342.00	153
82.00	1581	166.00	2462	247.00	988	346.00	1073
83.00	1323	167.00	14089	248.00	258	347.00	168
84.00	391	168.00	6111	249.00	718	351.00	58
85.00	1577	169.00	1092	250.00	148	352.00	1391
86.00	2681	170.00	603	251.00	217	353.00	959
87.00	1057	171.00	837	252.00	255	354.00	1277
88.00	188	172.00	1084	253.00	713	355.00	262
89.00	170	173.00	1303	254.00	126	359.00	56
91.00	2384	174.00	2169	255.00	100472	365.00	7490
92.00	2570	175.00	4317	256.00	15036	366.00	957
93.00	17544	176.00	1244	257.00	645	367.00	54
94.00	1065	177.00	2659	258.00	7977	370.00	168
95.00	618	178.00	582	259.00	1175	371.00	377
96.00	580	179.00	9743	260.00	183	372.00	2303
98.00	14135	180.00	5534	261.00	217	373.00	527
99.00	7452	181.00	2747	263.00	96	383.00	616
100.00	836	182.00	620	264.00	78	384.00	163
101.00	3385	183.00	356	265.00	3406	390.00	337
102.00	409	184.00	933	266.00	841	391.00	183
103.00	1899	185.00	4765	267.00	68	392.00	96
104.00	3613	186.00	29448	268.00	211	401.00	175
105.00	2584	187.00	9067	270.00	248	402.00	813
107.00	28752	188.00	952	271.00	209	403.00	1257
108.00	4304	189.00	2803	272.00	220	404.00	368
110.00	57320	190.00	417	273.00	3420	415.00	59
111.00	8732	191.00	1075	274.00	9417	421.00	979
112.00	1179	192.00	3006	275.00	45520	422.00	1262
113.00	385	193.00	2974	276.00	6183	423.00	8035
114.00	125	194.00	696	277.00	5021	424.00	1338
115.00	420	195.00	200	278.00	752	425.00	86

Data File: /chem/BNAMS7.i/8270/11-09-00/09nov00.b/13444.d

Date : 09-NOV-2000 10:48

Client ID:

Sample Info: LDFT314

Instrument: BNAMS7.i

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: 13444.d

Spectrum: Average Spectrum: 7.185 to 7.205 min.

Location of Maximum: 198.00

Number of points: 309

m/z	Y	m/z	Y	m/z	Y	m/z	Y
117.00	42664	196.00	5822	279.00	132	441.00	214
118.00	2795	198.00	205376	281.00	55	442.00	121064
119.00	385	199.00	14128	283.00	520	443.00	23784
120.00	395	200.00	1161	284.00	340	444.00	2103
121.00	84	201.00	803	285.00	655	445.00	82
122.00	3555	202.00	50	286.00	76		
123.00	4019	203.00	2210	288.00	52		
124.00	1861	204.00	7817	289.00	213		

Data File: /chem/BNAMS7.i/8270/11-09-00/09nov00.b/13444.d

Date : 09-NOV-2000 10:48

Client ID:

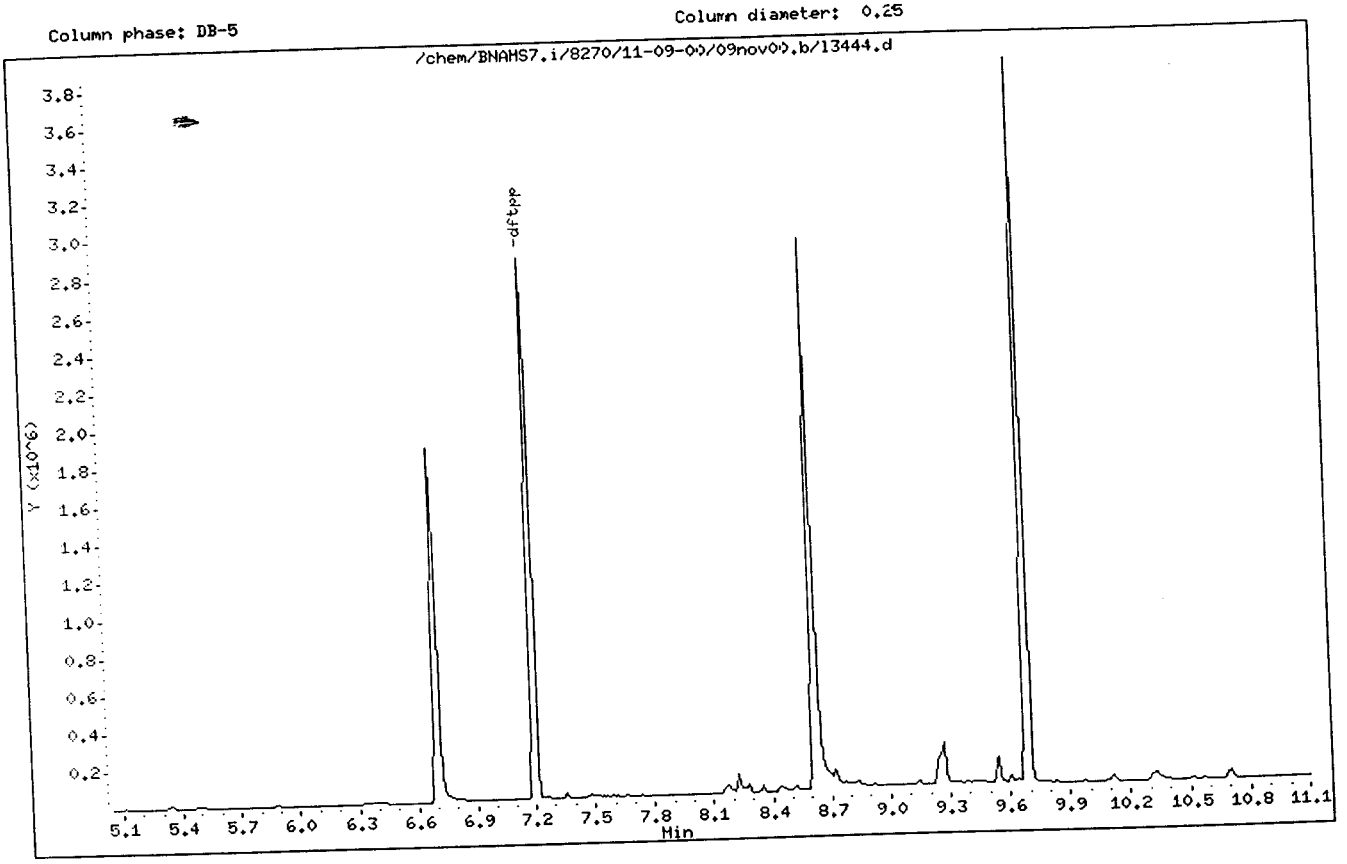
Instrument: BNAMS7.i

Sample Info: LDFT314

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25



SEMI-VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab File ID: L3527

DFTPP Injection Date: 11/15/00

Instrument ID: BNAMS7

DFTPP Injection Time: 0554

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	46.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	51.1
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	44.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	22.4
365	Greater than 1.0% of mass 198	3.31
441	0.0 - 100.0% of mass 443	5.3 (53.7)2
442	40.0 - 110.0% of mass 198	51.3
443	17.0 - 23.0% of mass 442	9.9 (19.3)3

1-Value is % mass 69
2-Value is % mass 443
3-Value is % mass 442

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

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	LSTD320	LSTD320	L3528	11/15/00	0612
02	RC-3_3RD_FLR	237827	L3537	11/15/00	1334
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					

Data File: /chem/BNAMS7.i/8270/11-09-00/15nov00.b/13527.d

Date : 15-NOV-2000 05:54

Client ID:

Instrument: BNAMS7.i

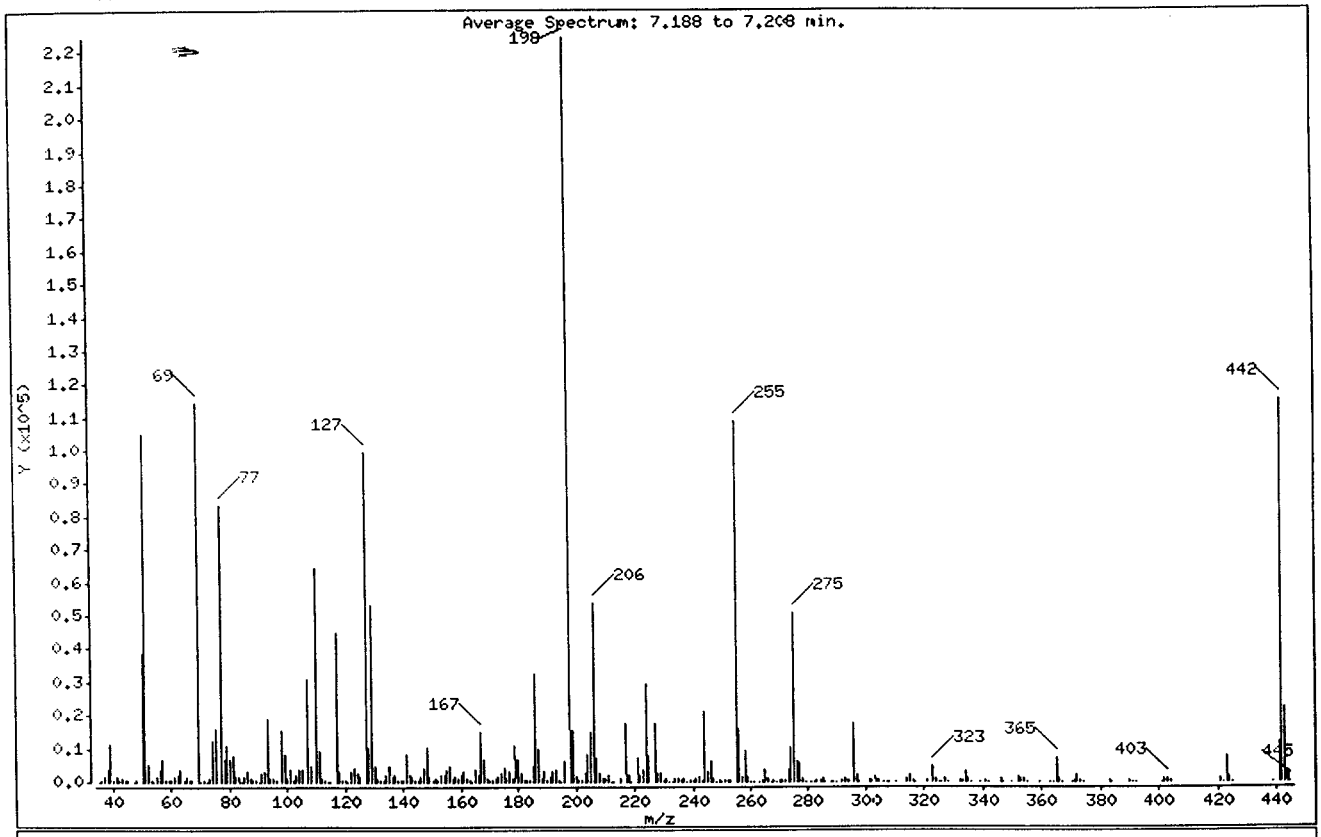
Sample Info: LDFT320

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	46.84
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	51.12
70	Less than 2.00% of mass 69	0.02 (0.05)
127	40.00 - 60.00% of mass 198	44.26
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.81
275	10.00 - 30.00% of mass 198	22.43
365	Greater than 1.00% of mass 198	3.31
441	0.01 - 100.00% of mass 443	5.31 (53.66)
442	40.00 - 110.00% of mass 198	51.26
443	17.00 - 23.00% of mass 442	9.90 (19.32)

Data File: /chem/BNAMS7.i/8270/11-09-00/15nov00.b/13527.d

Date : 15-NOV-2000 05:54

Client ID:

Instrument: BNAMS7.i

Sample Info: LDFT320

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: 13527.d

Spectrum: Average Spectrum: 7.188 to 7.208 min.

Location of Maximum: 198.00

Number of points: 399

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	167	121.00	156	201.00	350	286.00	145
36.00	403	122.00	3076	202.00	599	288.00	76
37.00	1592	123.00	4244	203.00	2540	289.00	251
38.00	3562	124.00	2344	204.00	8322	290.00	106
39.00	11433	125.00	1759	205.00	15031	292.00	275
40.00	529	127.00	99288	206.00	53648	293.00	1028
41.00	1430	128.00	10441	207.00	7467	294.00	392
42.00	291	129.00	53264	208.00	2633	296.00	17568
43.00	1049	130.00	4857	209.00	900	297.00	2271
44.00	599	131.00	1093	210.00	1123	298.00	82
45.00	445	132.00	591	211.00	2241	301.00	269
47.00	76	133.00	502	212.00	137	302.00	419
48.00	455	134.00	2179	213.00	210	303.00	1679
50.00	38776	135.00	4656	215.00	1093	304.00	619
51.00	105080	136.00	1761	217.00	17768	306.00	71
52.00	5003	137.00	2009	218.00	2111	307.00	60
53.00	427	138.00	568	219.00	238	308.00	138
54.00	96	139.00	529	221.00	7340	310.00	109
55.00	1718	140.00	521	222.00	2056	314.00	828
56.00	3644	141.00	7998	223.00	3436	315.00	2036
57.00	6522	142.00	2314	224.00	29192	316.00	731
58.00	394	143.00	1595	225.00	7577	317.00	101
59.00	260	144.00	348	227.00	17392	321.00	448
60.00	309	145.00	465	228.00	2336	323.00	4782
61.00	1690	146.00	1532	229.00	2805	324.00	887
62.00	1997	147.00	4142	230.00	585	325.00	59
63.00	3705	148.00	10411	231.00	923	326.00	121
64.00	719	149.00	1751	232.00	256	327.00	1073
65.00	1651	150.00	454	233.00	70	328.00	231
66.00	317	151.00	1055	234.00	935	332.00	334
67.00	763	152.00	673	235.00	1145	333.00	673
69.00	114688	153.00	2285	236.00	743	334.00	3036
70.00	54	154.00	1852	237.00	1102	335.00	801
71.00	345	155.00	3383	238.00	215	336.00	124
72.00	233	156.00	4719	239.00	707	339.00	58

Data File: /chem/BNAMS7.i/8270/11-09-00/15nov00.b/13527.d

Date : 15-NOV-2000 05:54

Client ID:

Instrument: BNAMS7.i

Sample Info: LDFT320

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: 13527.d

Spectrum: Average Spectrum: 7.188 to 7.208 min.

Location of Maximum: 198.00

Number of points: 309

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	965	157.00	951	240.00	504	341.00	494
74.00	12538	158.00	1596	241.00	782	342.00	121
75.00	16146	159.00	1220	242.00	1561	346.00	1021
77.00	83600	160.00	2314	243.00	357	347.00	206
78.00	6920	161.00	2861	244.00	20904	350.00	55
79.00	11036	162.00	850	245.00	3278	352.00	1503
80.00	6781	163.00	365	246.00	5958	353.00	988
81.00	7740	164.00	212	247.00	1147	354.00	1261
82.00	1769	165.00	3422	248.00	237	355.00	257
83.00	1718	166.00	2170	249.00	710	359.00	70
84.00	72	167.00	15161	250.00	179	363.00	50
85.00	1428	168.00	6475	251.00	294	364.00	192
86.00	3063	169.00	1160	252.00	364	365.00	7430
87.00	1008	170.00	621	253.00	294	366.00	986
88.00	376	171.00	751	255.00	108872	367.00	72
89.00	287	172.00	1237	256.00	16230	370.00	108
90.00	51	173.00	1571	257.00	1564	371.00	409
91.00	2640	174.00	2604	258.00	9131	372.00	2056
92.00	3032	175.00	4103	259.00	1558	373.00	626
93.00	18952	176.00	1281	260.00	216	374.00	69
94.00	1226	177.00	2947	261.00	150	383.00	611
95.00	874	178.00	881	263.00	55	384.00	189
96.00	712	179.00	10860	264.00	260	390.00	293
98.00	15453	180.00	6571	265.00	3736	391.00	82
99.00	8212	181.00	2794	266.00	1073	392.00	78
100.00	804	182.00	555	267.00	141	401.00	120
101.00	3626	183.00	315	268.00	331	402.00	974
102.00	296	184.00	383	269.00	119	403.00	1096
103.00	1982	185.00	4859	270.00	319	404.00	369
104.00	3353	186.00	32616	271.00	319	421.00	1260
105.00	3576	187.00	9831	272.00	284	422.00	133
107.00	31016	188.00	868	273.00	3502	423.00	7693
108.00	4778	189.00	3263	274.00	10490	424.00	1482
110.00	64536	190.00	516	275.00	50320	425.00	99
111.00	9445	191.00	1322	276.00	6444	439.00	68

Data File: /chem/BNAHS7.i/8270/11-09-00/15nov00.b/13527.d

Date : 15-NOV-2000 05:54

Client ID:

Instrument: BNAHS7.i

Sample Info: LDFT320

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: 13527.d

Spectrum: Average Spectrum: 7.188 to 7.208 min.

Location of Maximum: 198.00

Number of points: 309

m/z	Y	m/z	Y	m/z	Y	m/z	Y
112.00	1264	192.00	3275	277.00	5851	441.00	11920
113.00	501	193.00	3393	278.00	962	442.00	115000
114.00	250	194.00	692	279.00	152	443.00	22216
115.00	94	195.00	131	281.00	60	444.00	2322
117.00	45064	196.00	6244	282.00	199	445.00	131
118.00	3122	198.00	224320	283.00	542		
119.00	487	199.00	15273	284.00	444		
120.00	557	200.00	1423	285.00	780		

Data File: /chem/BNAMS7.i/8270/11-09-00/15nov00.b/13527.d

Date : 15-NOV-2000 05:54

Client ID:

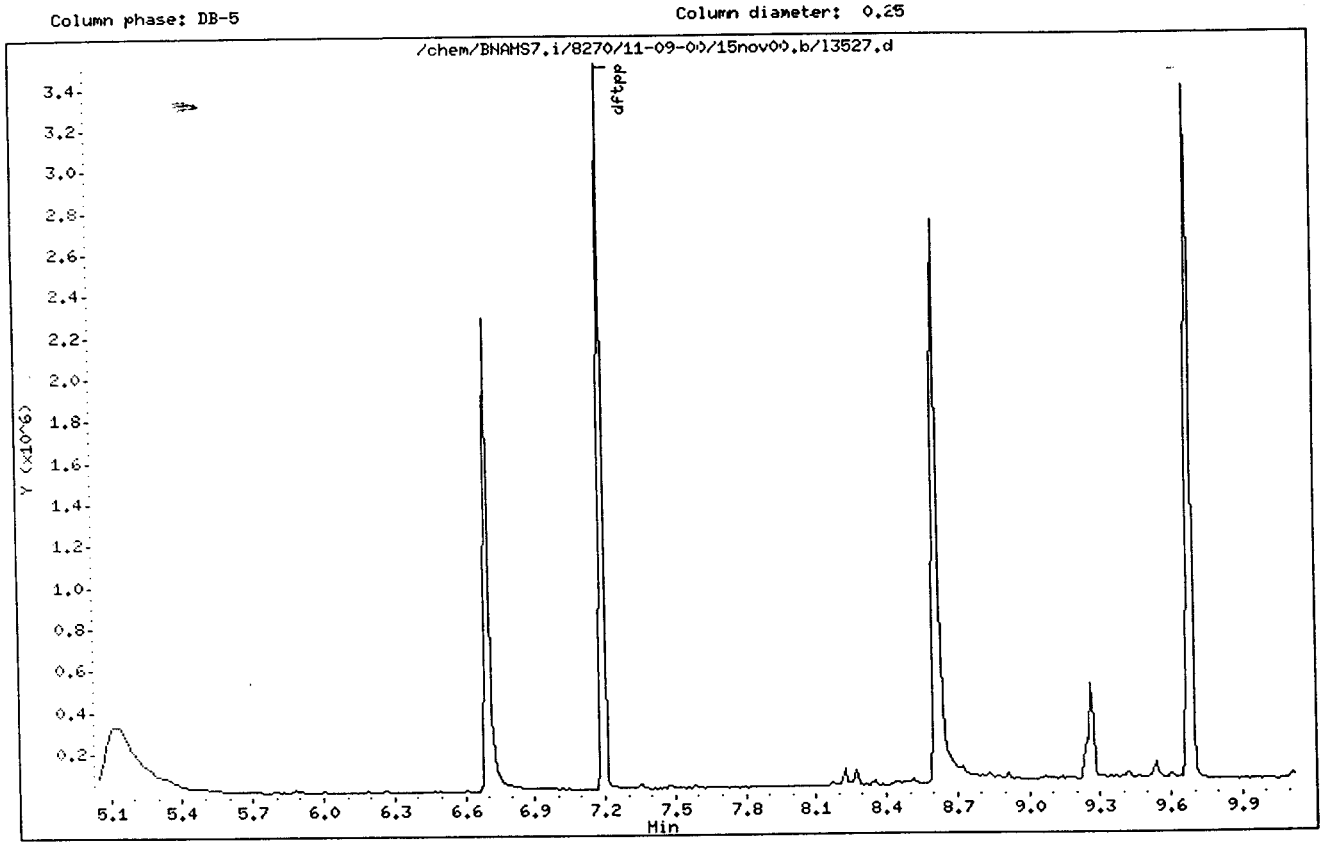
Instrument: BNAMS7.i

Sample Info: LDFT320

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25



SEMI-VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab File ID: AA2376

DFTPP Injection Date: 10/24/00

Instrument ID: BNAMS8

DFTPP Injection Time: 1327

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	49.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	60.9
70	Less than 2.0% of mass 69	0.3 (0.4)1
127	40.0 - 60.0% of mass 198	47.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	18.8
365	Greater than 1.0% of mass 198	4.21
441	0.0 - 100.0% of mass 443	8.5 (79.7)2
442	40.0 - 110.0% of mass 198	52.9
443	17.0 - 23.0% of mass 442	10.7 (20.2)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

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

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD050	ASTD050	AA2377	10/24/00	1351
02	ASTD120	ASTD120	AA2378	10/24/00	1443
03	ASTD020	ASTD020	AA2379	10/24/00	1544
04	ASTD080	ASTD080	AA2380	10/24/00	1637
05	ASTD010	ASTD010	AA2381	10/24/00	1730
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					

Data File: /chem/BNAMS8.i/625/10-24-00/24oct00.b/aa2376.d

Date : 24-OCT-2000 13:27

Client ID:

Instrument: BNAMS8.i

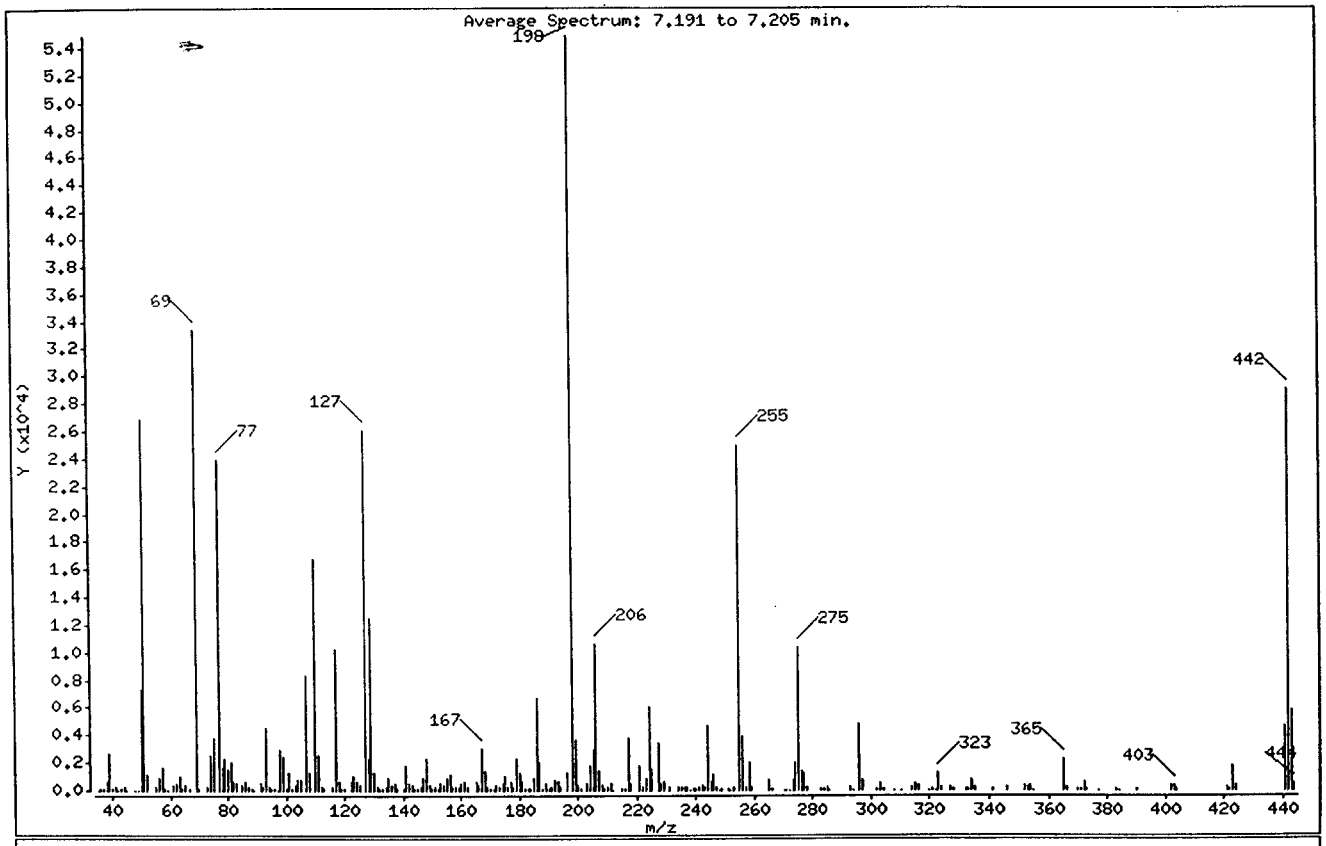
Sample Info: AADFT298

Operator: BNA 8

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	49.07
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	60.92
70	Less than 2.00% of mass 69	0.26 (0.43)
127	40.00 - 60.00% of mass 198	47.69
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.68
275	10.00 - 30.00% of mass 198	18.84
365	Greater than 1.00% of mass 198	4.21
441	0.01 - 100.00% of mass 443	8.50 (79.69)
442	40.00 - 110.00% of mass 198	52.86
443	17.00 - 23.00% of mass 442	10.67 (20.18)

Data File: /chem/BNAHS8.i/625/10-24-00/24oct00.b/aa2376.d

Date : 24-OCT-2000 13:27

Client ID:

Instrument: BNAHS8.i

Sample Info: AADFT298

Operator: BNA 8

Column phase: DB-5

Column diameter: 0.25

Data File: aa2376.d

Spectrum: Average Spectrum: 7.191 to 7.205 min.

Location of Maximum: 198.00

Number of points: 256

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	50	116.00	252	186.00	6640	272.00	44
36.00	94	117.00	10203	187.00	1999	273.00	820
37.00	140	118.00	649	188.00	174	274.00	2012
38.00	608	119.00	132	189.00	555	275.00	10345
39.00	2701	120.00	125	190.00	141	276.00	1369
40.00	187	122.00	664	191.00	270	277.00	1222
41.00	221	123.00	962	192.00	721	278.00	217
42.00	34	124.00	585	193.00	673	283.00	159
43.00	129	125.00	391	194.00	225	284.00	133
44.00	292	127.00	26176	196.00	1268	285.00	207
45.00	47	128.00	2215	198.00	54896	286.00	34
48.00	39	129.00	12555	199.00	3667	293.00	240
49.00	46	130.00	1285	200.00	341	294.00	35
50.00	7364	131.00	292	201.00	175	296.00	4792
51.00	26936	132.00	114	203.00	477	297.00	707
52.00	1187	133.00	144	204.00	1772	302.00	86
55.00	289	134.00	288	205.00	2922	303.00	473
56.00	898	135.00	912	206.00	10608	304.00	163
57.00	1682	136.00	412	207.00	1405	308.00	34
58.00	104	137.00	459	208.00	435	310.00	46
59.00	50	138.00	158	209.00	177	314.00	196
61.00	324	140.00	97	210.00	242	315.00	501
62.00	495	141.00	1712	211.00	500	316.00	321
63.00	971	142.00	548	212.00	59	320.00	47
64.00	142	143.00	427	215.00	188	321.00	134
65.00	377	144.00	101	216.00	100	322.00	46
67.00	102	145.00	77	217.00	3831	323.00	1270
69.00	33440	146.00	309	218.00	503	324.00	210
70.00	145	147.00	896	221.00	1777	327.00	229
73.00	258	148.00	2313	222.00	304	328.00	144
74.00	2470	149.00	420	223.00	865	332.00	87
75.00	3837	150.00	96	224.00	6069	333.00	171
77.00	24000	151.00	197	225.00	1567	334.00	807
78.00	1631	152.00	138	227.00	3464	335.00	200
79.00	2229	153.00	556	228.00	541	341.00	103

Data File: /chem/BNAHS8.i/625/10-24-00/24oct00.b/aa2376.d

Date : 24-OCT-2000 13:27

Client ID:

Instrument: BNAHS8.i

Sample Info: AADFT298

Operator: BNA 8

Column phase: DB-5

Column diameter: 0.25

Data File: aa2376.d

Spectrum: Average Spectrum: 7.191 to 7.205 min.

Location of Maximum: 198.00

Number of points: 256

m/z	Y	m/z	Y	m/z	Y	m/z	Y
80.00	1550	154.00	343	229.00	573	346.00	296
81.00	2029	155.00	840	231.00	267	352.00	350
82.00	578	156.00	1094	234.00	268	353.00	259
83.00	454	157.00	240	235.00	213	354.00	394
85.00	381	158.00	287	236.00	194	355.00	41
86.00	665	159.00	293	237.00	196	365.00	2310
87.00	214	160.00	492	238.00	34	366.00	312
88.00	175	161.00	602	239.00	94	370.00	92
89.00	46	162.00	209	240.00	124	371.00	96
91.00	508	165.00	658	241.00	205	372.00	617
92.00	244	166.00	365	242.00	353	373.00	182
93.00	4511	167.00	3005	243.00	229	377.00	34
94.00	302	168.00	1339	244.00	4694	383.00	165
95.00	77	169.00	215	245.00	572	384.00	42
96.00	186	170.00	148	246.00	1183	390.00	127
97.00	63	171.00	144	247.00	204	402.00	328
98.00	2965	172.00	316	248.00	35	403.00	351
99.00	2355	173.00	306	249.00	157	404.00	112
100.00	162	174.00	538	251.00	134	421.00	299
101.00	1276	175.00	1055	252.00	35	422.00	189
102.00	80	176.00	283	253.00	242	423.00	1737
103.00	374	177.00	616	255.00	24952	424.00	407
104.00	801	178.00	194	256.00	3906	441.00	4666
105.00	808	179.00	2299	257.00	252	442.00	29016
107.00	8307	180.00	1200	258.00	2031	443.00	5855
108.00	1259	181.00	653	259.00	299	444.00	549
110.00	16840	182.00	116	265.00	761		
111.00	2574	183.00	135	266.00	127		
112.00	273	184.00	178	270.00	42		
113.00	153	185.00	918	271.00	47		

Data File: /chem/BNAMS8.i/625/10-24-00/24oct00.b/aa2376.d

Date : 24-OCT-2000 13:27

Client ID:

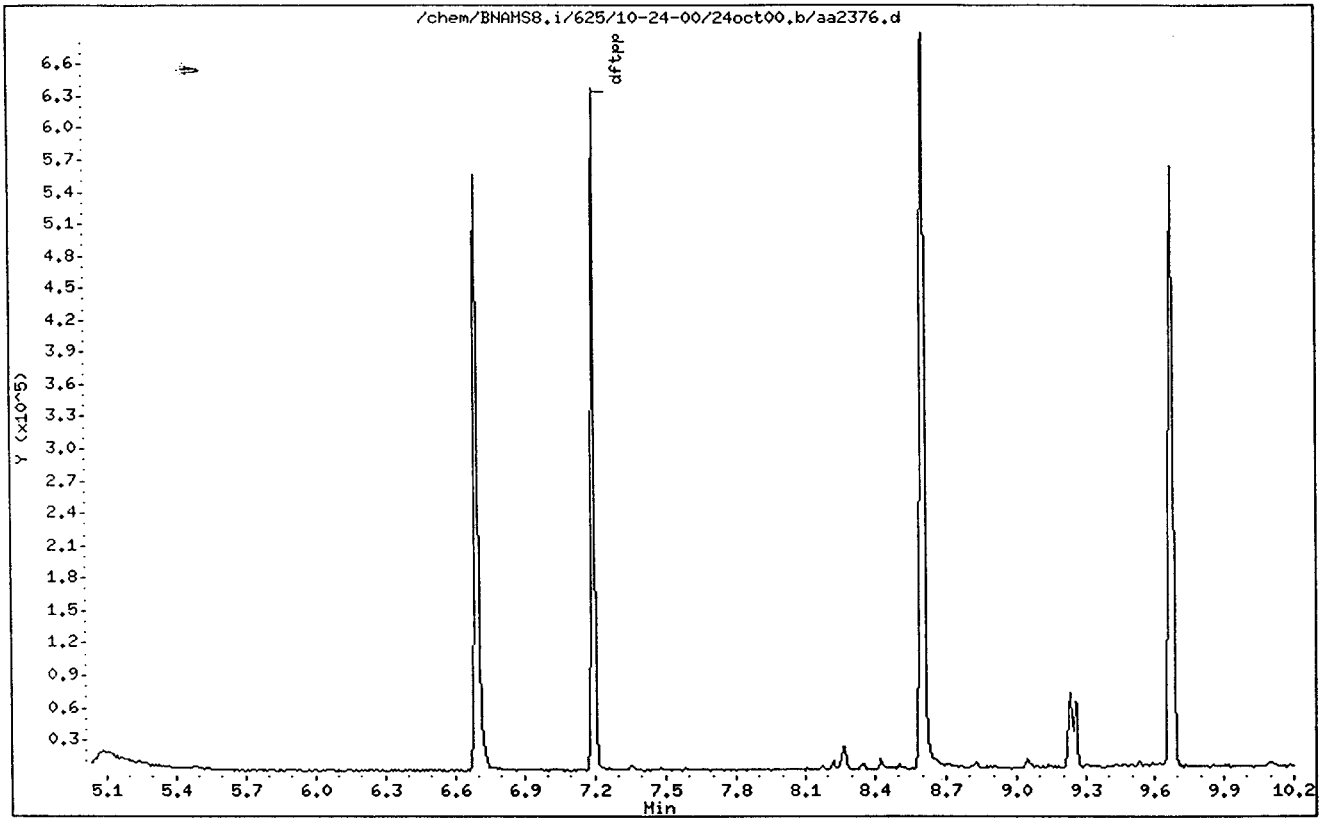
Instrument: BNAMS8.i

Sample Info: AADFT298

Operator: BNA 8

Column phase: DB-5

Column diameter: 0.25



SEMI-VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab File ID: AA2494

DFTPP Injection Date: 10/30/00

Instrument ID: BNAMS8

DFTPP Injection Time: 0904

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	57.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	70.3
70	Less than 2.0% of mass 69	0.4 (0.5)1
127	40.0 - 60.0% of mass 198	51.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.3
275	10.0 - 30.0% of mass 198	18.0
365	Greater than 1.0% of mass 198	4.07
441	0.0 - 100.0% of mass 443	5.2 (58.1)2
442	40.0 - 110.0% of mass 198	42.3
443	17.0 - 23.0% of mass 442	8.9 (21.0)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

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

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD304	ASTD304	AA2495	10/30/00	0925
02	MW-1	237821	AA2509	10/30/00	2134
03	PZ-2	237822	AA2510	10/31/00	0832
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					

Data File: /chem/BNAMS8.i/625/10-24-00/30oct00.b/aa2494.d

Date : 30-OCT-2000 09:04

Client ID:

Instrument: BNAMS8.i

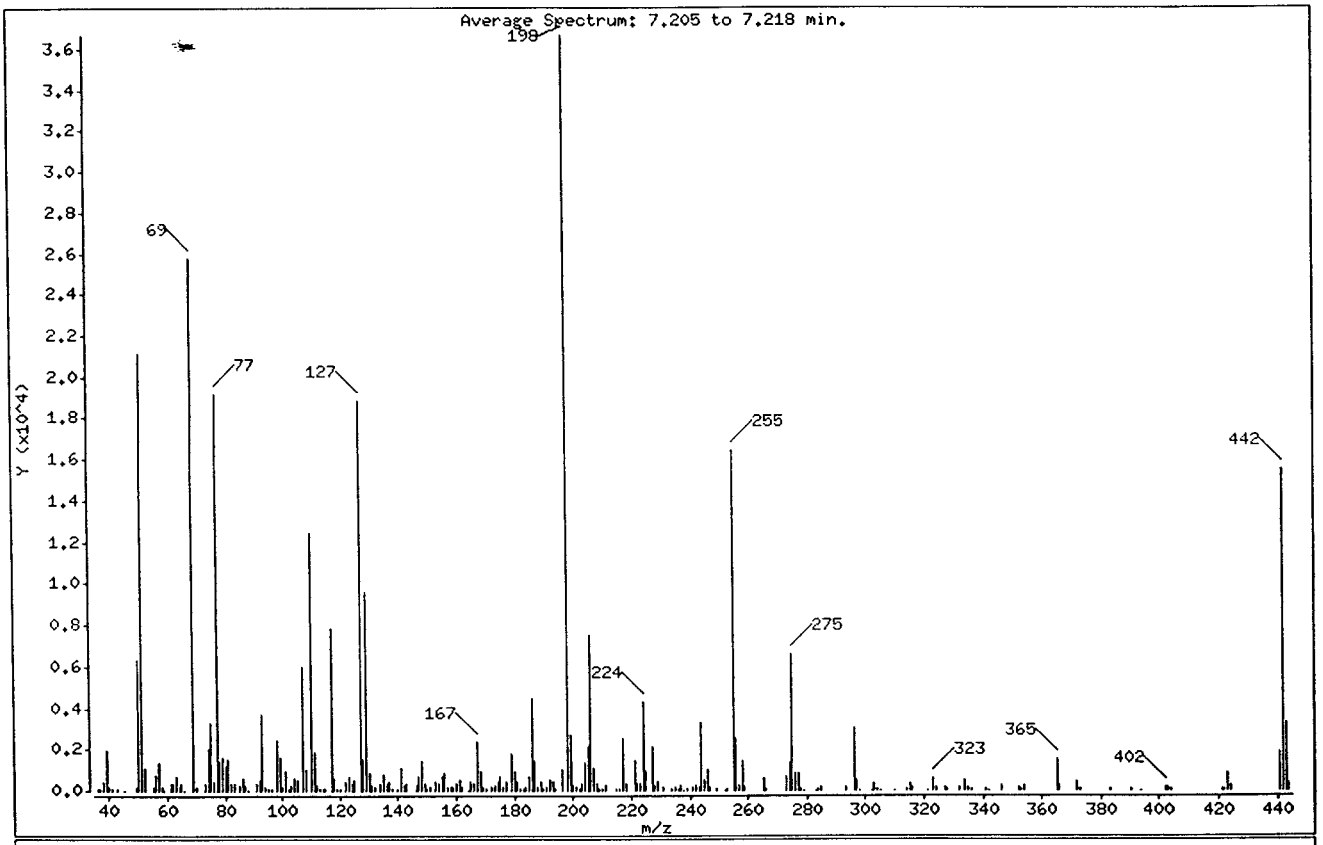
Sample Info: AADFT304

Operator: BNA 8

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	57.59
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	70.34
70	Less than 2.00% of mass 69	0.36 (0.52)
127	40.00 - 60.00% of mass 198	51.39
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.27
275	10.00 - 30.00% of mass 198	18.04
365	Greater than 1.00% of mass 198	4.07
441	0.01 - 100.00% of mass 443	5.15 (58.05)
442	40.00 - 110.00% of mass 198	42.33
443	17.00 - 23.00% of mass 442	8.87 (20.96)

Data File: /chem/BNAHS8.i/625/10-24-00/30oct00.b/aa2494.d

Date : 30-OCT-2000 09:04

Client ID:

Instrument: BNAHS8.i

Sample Info: AADFT304

Operator: BNA 8

Column phase: DB-5

Column diameter: 0.25

Data File: aa2494.d

Spectrum: Average Spectrum: 7.205 to 7.218 min.

Location of Maximum: 198.00

Number of points: 236

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	119	114.00	61	185.00	707	266.00	81
37.00	84	115.00	113	186.00	4478	273.00	642
38.00	395	117.00	7882	187.00	1410	274.00	1345
39.00	1929	118.00	601	188.00	202	275.00	6615
40.00	182	119.00	44	189.00	435	276.00	842
41.00	87	120.00	43	190.00	75	277.00	841
43.00	80	122.00	406	191.00	139	278.00	123
45.00	41	123.00	716	192.00	485	279.00	34
49.00	177	124.00	347	193.00	447	283.00	34
50.00	6334	125.00	488	194.00	76	284.00	87
51.00	21120	127.00	18848	196.00	1026	285.00	138
52.00	1121	128.00	1554	198.00	36672	293.00	151
55.00	209	129.00	9600	199.00	2667	296.00	3076
56.00	794	130.00	868	200.00	227	297.00	485
57.00	1357	131.00	292	201.00	178	298.00	39
58.00	127	132.00	129	202.00	113	302.00	34
59.00	34	134.00	312	203.00	312	303.00	319
61.00	336	135.00	773	204.00	1351	304.00	111
62.00	308	136.00	308	205.00	2076	305.00	36
63.00	667	137.00	393	206.00	7462	310.00	34
64.00	128	138.00	78	207.00	1079	314.00	120
65.00	299	140.00	84	208.00	323	315.00	342
66.00	34	141.00	1120	209.00	106	316.00	201
69.00	25800	142.00	292	210.00	126	321.00	35
70.00	133	143.00	304	211.00	258	323.00	625
73.00	337	146.00	213	215.00	104	324.00	153
74.00	2015	147.00	649	216.00	111	327.00	129
75.00	3313	148.00	1450	217.00	2494	328.00	106
76.00	401	149.00	344	218.00	360	332.00	138
77.00	19200	150.00	77	221.00	1393	334.00	535
78.00	1470	151.00	159	222.00	334	335.00	177
79.00	1567	153.00	428	223.00	374	336.00	49
80.00	1207	154.00	304	224.00	4282	341.00	106
81.00	1515	155.00	681	225.00	965	342.00	37
82.00	298	156.00	872	227.00	2120	346.00	245

Data File: /chem/BNAHS8.i/625/10-24-00/30oct00.b/aa2494.d

Date : 30-OCT-2000 09:04

Client ID:

Instrument: BNAHS8.i

Sample Info: AADFT304

Operator: BNA 8

Column phase: DB-5

Column diameter: 0.25

Data File: aa2494.d

Spectrum: Average Spectrum: 7.205 to 7.218 min.

Location of Maximum: 198.00

Number of points: 236

m/z	Y	m/z	Y	m/z	Y	m/z	Y
83.00	357	157.00	197	228.00	271	352.00	166
85.00	226	158.00	185	229.00	409	353.00	121
86.00	573	159.00	155	231.00	146	354.00	215
87.00	254	160.00	328	234.00	105	365.00	1492
88.00	41	161.00	507	235.00	146	366.00	213
91.00	338	162.00	150	236.00	110	372.00	382
92.00	519	164.00	37	237.00	224	373.00	114
93.00	3673	165.00	419	238.00	40	383.00	79
94.00	198	166.00	368	239.00	86	390.00	50
95.00	49	167.00	2378	241.00	151	394.00	33
96.00	122	168.00	955	242.00	263	402.00	191
98.00	2442	169.00	161	243.00	189	403.00	176
99.00	1563	170.00	81	244.00	3317	404.00	90
100.00	154	172.00	182	245.00	478	421.00	126
101.00	934	173.00	228	246.00	978	422.00	104
102.00	45	174.00	430	247.00	201	423.00	802
103.00	287	175.00	700	249.00	103	424.00	287
104.00	587	176.00	191	252.00	38	441.00	1889
105.00	543	177.00	396	253.00	101	442.00	15526
107.00	6007	179.00	1812	255.00	16440	443.00	3254
108.00	1033	180.00	907	256.00	2559	444.00	374
110.00	12463	181.00	444	257.00	274		
111.00	1819	182.00	93	258.00	1394		
112.00	231	183.00	45	259.00	182		
113.00	102	184.00	158	265.00	595		

Data File: /chem/BNAMS8.i/625/10-24-00/30oct00.b/aa2494.d

Date : 30-OCT-2000 09:04

Client ID:

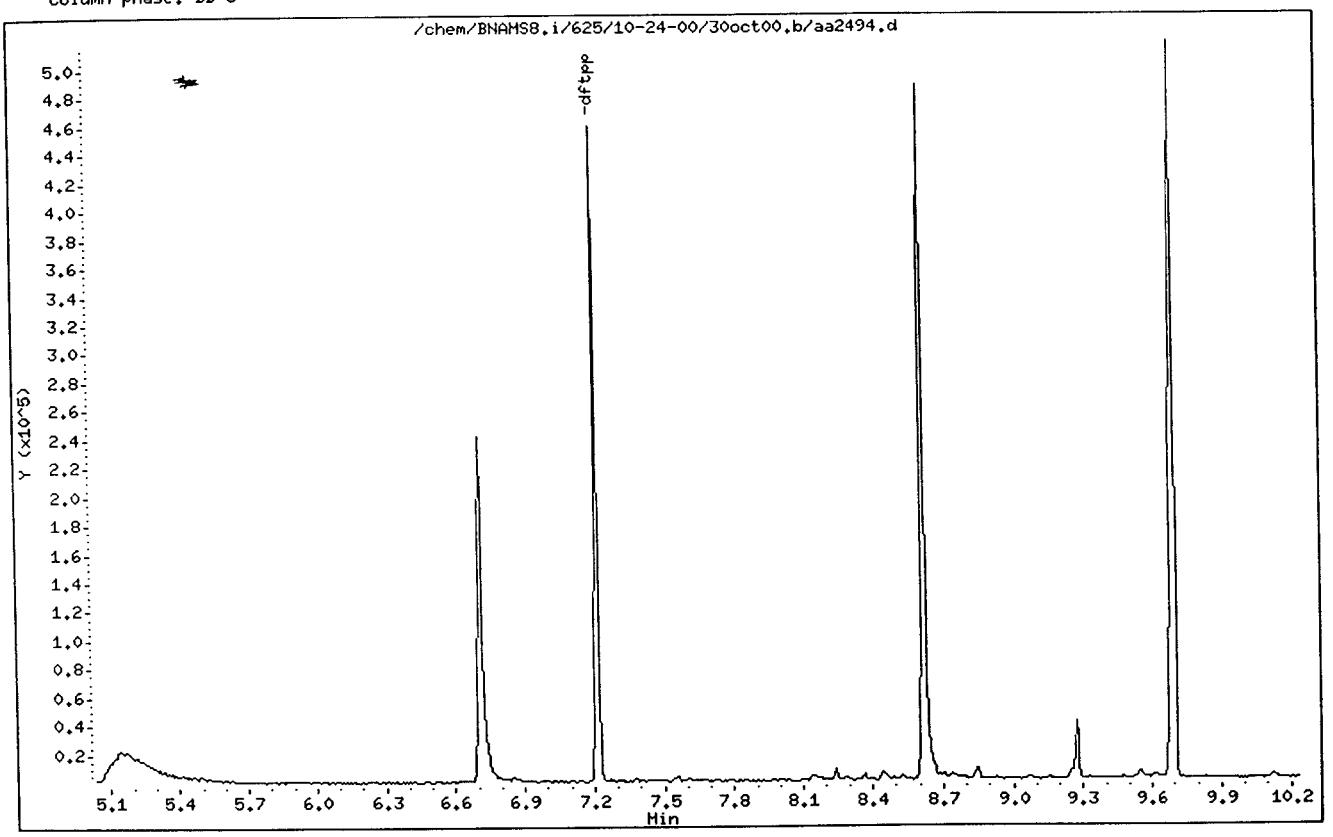
Instrument: BNAMS8.i

Sample Info: AADFT304

Operator: BNA 8

Column phase: DB-5

Column diameter: 0.25



SEMI-VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab File ID: AA2511

DFTPP Injection Date: 10/31/00

Instrument ID: BNAMS8

DFTPP Injection Time: 0925

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	53.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	65.1
70	Less than 2.0% of mass 69	0.2 (0.3)1
127	40.0 - 60.0% of mass 198	50.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	20.1
365	Greater than 1.0% of mass 198	4.62
441	0.0 - 100.0% of mass 443	7.4 (77.2)2
442	40.0 - 110.0% of mass 198	49.9
443	17.0 - 23.0% of mass 442	9.6 (19.2)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

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

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD305	ASTD305	AA2512	10/31/00	0946
02	FIELD_BLANK-	237824	AA2513	10/31/00	1038
03	FIELD_BLANK-	237831	AA2514	10/31/00	1130
04	WB302	WB302	AA2515	10/31/00	1223
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					

Data File: /chem/BNAMS8.i/625/10-24-00/31oct00.b/aa2511.d

Date : 31-OCT-2000 09:25

Client ID:

Instrument: BNAMS8.i

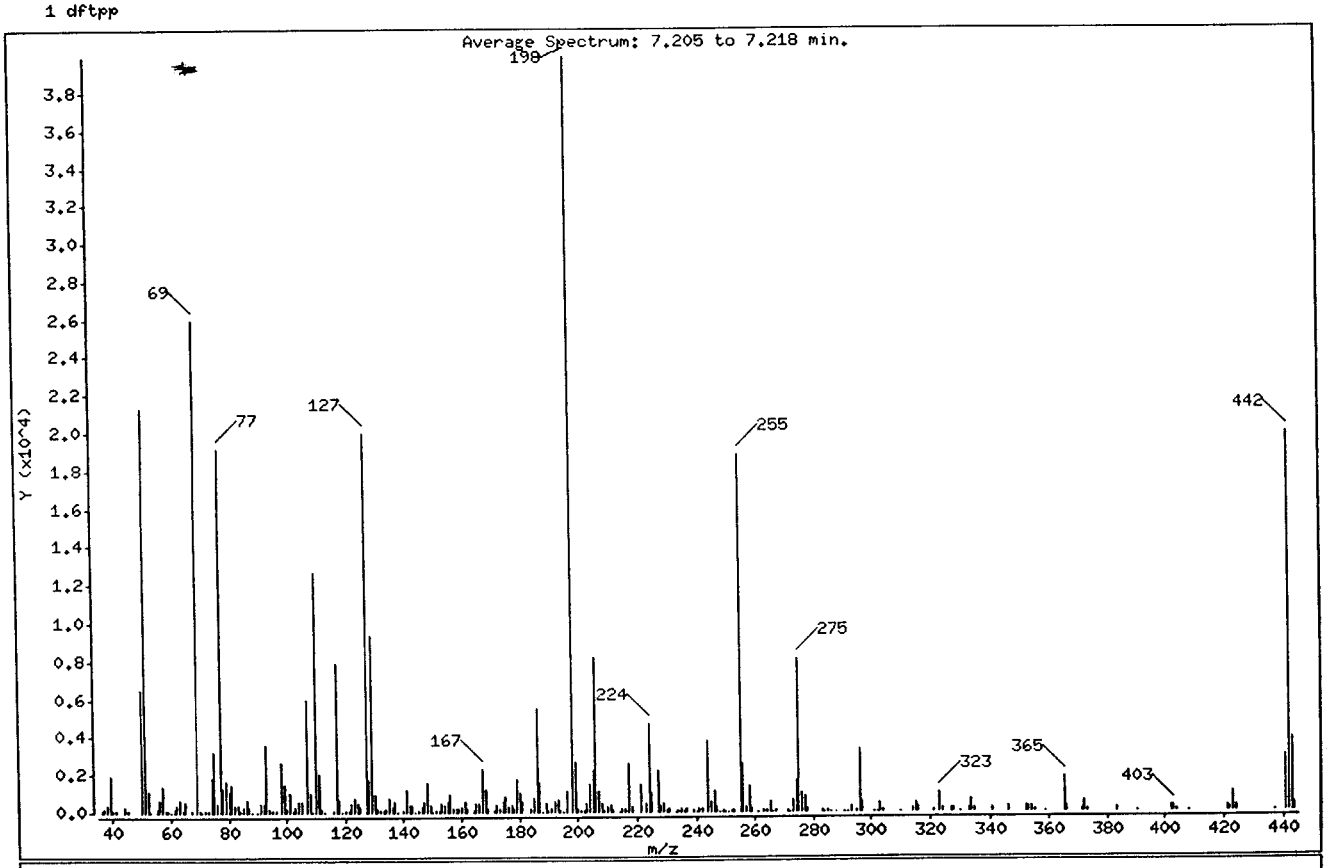
Sample Info: AADFT305

Operator: BNA 8

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	53.44
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	65.05
70	Less than 2.00% of mass 69	0.20 (0.31)
127	40.00 - 60.00% of mass 198	50.22
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.68
275	10.00 - 30.00% of mass 198	20.12
365	Greater than 1.00% of mass 198	4.62
441	0.01 - 100.00% of mass 443	7.39 (77.18)
442	40.00 - 110.00% of mass 198	49.85
443	17.00 - 23.00% of mass 442	9.57 (19.20)

Data File: /chem/BNAMS8.i/625/10-24-00/31oct00.b/aa2511.d

Date : 31-OCT-2000 09:25

Client ID:

Instrument: BNAMS8.i

Sample Info: AADFT305

Operator: BNA 8

Column phase: DB-5

Column diameter: 0.25

Data File: aa2511.d

Spectrum: Average Spectrum: 7.205 to 7.218 min.

Location of Maximum: 198.00

Number of points: 263

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	47	116.00	82	188.00	42	266.00	45
37.00	143	117.00	7924	189.00	438	267.00	51
38.00	385	118.00	669	190.00	48	271.00	49
39.00	1949	119.00	41	191.00	187	272.00	37
40.00	79	120.00	82	192.00	578	273.00	661
41.00	57	121.00	49	193.00	602	274.00	1638
44.00	281	122.00	441	194.00	135	275.00	8031
45.00	48	123.00	760	195.00	33	276.00	987
50.00	6491	124.00	461	196.00	1141	277.00	843
51.00	21328	125.00	271	198.00	39920	278.00	143
52.00	1133	127.00	20048	199.00	2665	283.00	98
53.00	36	128.00	1721	200.00	194	284.00	34
55.00	164	129.00	9347	201.00	75	285.00	103
56.00	655	130.00	947	202.00	104	286.00	35
57.00	1353	131.00	204	203.00	423	288.00	36
58.00	77	132.00	121	204.00	1473	291.00	44
59.00	47	133.00	75	205.00	2178	292.00	36
60.00	36	134.00	211	206.00	8172	293.00	256
61.00	211	135.00	755	207.00	1090	295.00	58
62.00	341	136.00	267	208.00	421	296.00	3309
63.00	667	137.00	515	209.00	92	297.00	515
64.00	114	138.00	35	210.00	268	301.00	39
65.00	513	140.00	82	211.00	407	302.00	40
67.00	83	141.00	1229	212.00	111	303.00	445
69.00	25968	142.00	376	214.00	34	304.00	46
70.00	81	143.00	353	215.00	147	310.00	39
71.00	42	144.00	35	216.00	157	314.00	154
72.00	49	145.00	119	217.00	2539	315.00	422
73.00	108	146.00	239	218.00	297	316.00	238
74.00	1839	147.00	563	221.00	1447	321.00	79
75.00	3199	148.00	1603	223.00	448	323.00	1048
76.00	499	149.00	340	224.00	4675	324.00	177
77.00	19168	150.00	40	225.00	1015	327.00	191
78.00	1289	151.00	137	227.00	2217	328.00	204
79.00	1623	152.00	51	228.00	390	330.00	43

Data File: /chem/BNAHS8.i/625/10-24-00/31oct00.b/aa2511.d

Date : 31-OCT-2000 09:25

Client ID:

Instrument: BNAHS8.i

Sample Info: AADFT305

Operator: BNA 8

Column phase: DB-5

Column diameter: 0.25

Data File: aa2511.d

Spectrum: Average Spectrum: 7.205 to 7.218 min.

Location of Maximum: 198.00

Number of points: 263

m/z	Y	m/z	Y	m/z	Y	m/z	Y
80.00	1134	153.00	446	229.00	446	333.00	157
81.00	1476	154.00	338	230.00	78	334.00	633
82.00	403	155.00	572	231.00	168	335.00	206
83.00	378	156.00	923	233.00	33	341.00	138
84.00	47	157.00	193	234.00	77	346.00	251
85.00	306	158.00	167	235.00	187	352.00	311
86.00	638	159.00	194	236.00	121	353.00	253
87.00	257	160.00	241	237.00	200	354.00	275
88.00	44	161.00	514	239.00	125	355.00	57
90.00	37	162.00	140	240.00	34	359.00	35
91.00	425	164.00	122	241.00	149	365.00	1843
92.00	435	165.00	441	242.00	216	366.00	252
93.00	3571	166.00	435	244.00	3779	371.00	46
94.00	225	167.00	2297	245.00	581	372.00	546
95.00	52	168.00	1204	246.00	1066	373.00	91
96.00	79	169.00	155	247.00	250	383.00	139
98.00	2661	171.00	64	248.00	34	390.00	43
99.00	1450	172.00	355	249.00	52	402.00	270
100.00	146	173.00	163	250.00	36	403.00	299
101.00	969	174.00	512	251.00	36	404.00	83
102.00	91	175.00	833	252.00	88	408.00	34
103.00	318	176.00	299	253.00	116	421.00	257
104.00	579	177.00	381	255.00	18856	422.00	193
105.00	585	178.00	153	256.00	2578	423.00	1009
107.00	5963	179.00	1708	257.00	231	424.00	233
108.00	992	180.00	1036	258.00	1372	437.00	39
109.00	42	181.00	532	259.00	216	441.00	2949
110.00	12690	184.00	217	261.00	34	442.00	19896
111.00	2023	185.00	689	263.00	48	443.00	3821
112.00	186	186.00	5515	264.00	52	444.00	397
113.00	35	187.00	1561	265.00	595		

Data File: /chem/BNAMS8.i/625/10-24-00/31oct00.b/aa2511.d

Date : 31-OCT-2000 09:25

Client ID:

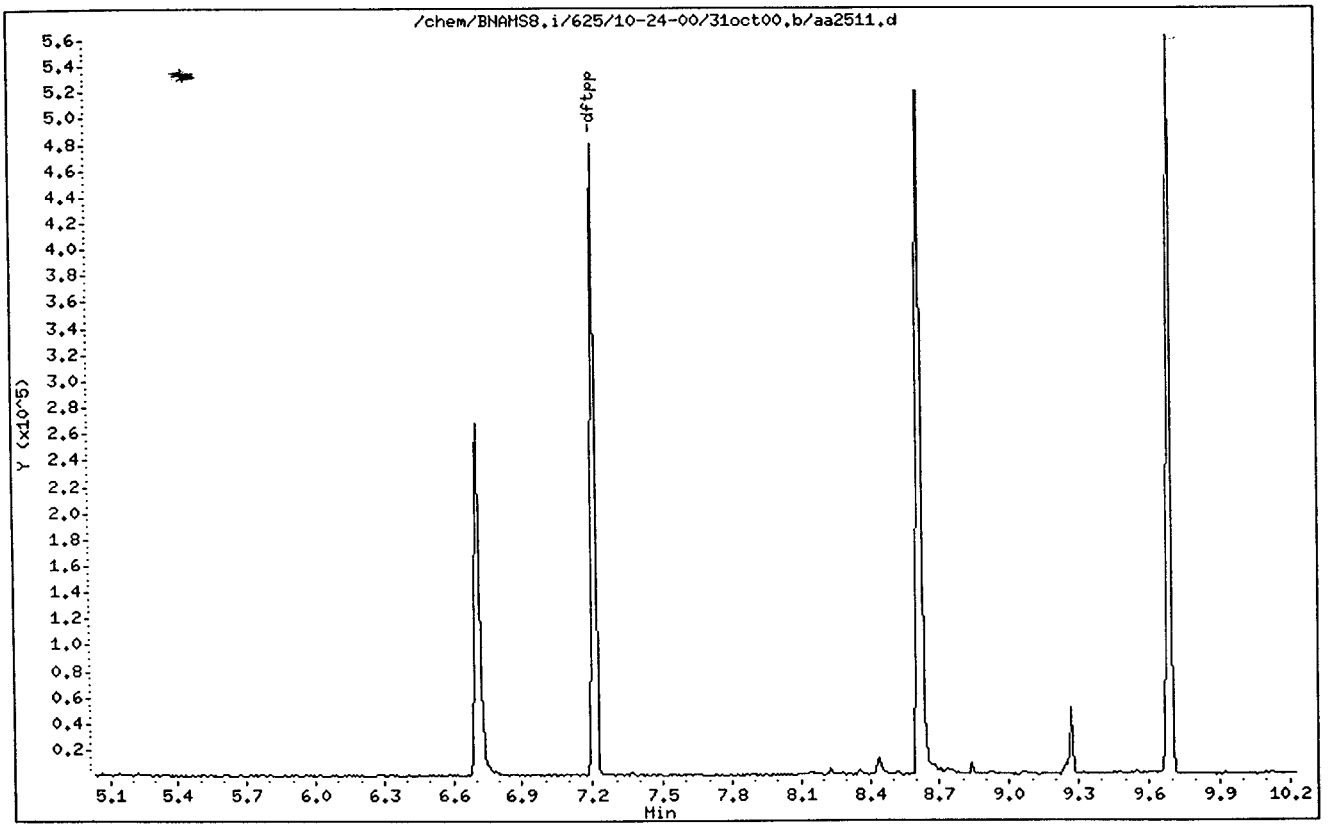
Instrument: BNAMS8.i

Sample Info: AADFT305

Operator: BNA 8

Column phase: DB-5

Column diameter: 0.25



SEMIVOLATILE METHOD BLANK SUMMARY

LAB SAMPLE NO.

SB302

Matrix: SOIL

Date Analyzed: 10/30/00

Level: LOW

Time Analyzed: 1521

Instrument ID: BNAMS7

Lab File ID: L3249

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

	CLIENT ID.	LAB SAMPLE NO	LAB FILE ID	DATE ANALYZED
01	TPE-3MS	237820MS	L3252	10/30/00
02	TPE-3MSD	237820MSD	L3253	10/30/00
03	EB-5_1.2-1.7	237816	L3254	10/30/00
04	EB-1_6-12	237812	L3255	10/30/00
05	TPE-1	237818	L3256	10/30/00
06	TPE-2	237819	L3257	10/30/00
07	ES-1_ELSHAFT_4TH	237829	L3258	10/30/00
08	EB-2_CATCH_BASIN	237813	L3259	10/30/00
09	RC-1_2ND_FLR	237825	L3266	10/31/00
10	EB-6_OUTFALL	237817	L3267	10/31/00
11	RC-2_3RD_FLR	237826	L3268	10/31/00
12	EB-4_1.5-2	237815	L3269	10/31/00
13	EB-4_16-16.5	237839	L3270	10/31/00
14	EB-3_16-16.5	237814	L3292	11/01/00
15	RC-4_4TH_FLR	237828	L3321	11/01/00
16	RC-3_3RD_FLR	237827	L3537	11/15/00
17				
18				
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20				
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26				
27				
28				
29				
30				

COMMENTS:

Client ID: **SB302**
Site:

Lab Sample No: **SB302**
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3249.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	330
2-Chlorophenol	ND	330
2-Methylphenol	ND	330
4-Methylphenol	ND	330
2-Nitrophenol	ND	330
2,4-Dimethylphenol	ND	330
2,4-Dichlorophenol	ND	330
4-Chloro-3-methylphenol	ND	330
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	330
2,4-Dinitrophenol	ND	1300
4-Nitrophenol	ND	1300
4,6-Dinitro-2-methylphenol	ND	1300
Pentachlorophenol	ND	1300
Benzoic Acid	ND	330
N-Nitrosodimethylamine	ND	330
bis(2-Chloroethyl)ether	ND	33
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
1,2-Dichlorobenzene	ND	330
bis(2-chloroisopropyl)ether	ND	330
N-Nitroso-di-n-propylamine	ND	33
Hexachloroethane	ND	33
Nitrobenzene	ND	33
Isophorone	ND	330
bis(2-Chloroethoxy)methane	ND	330
1,2,4-Trichlorobenzene	ND	33
Naphthalene	ND	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	67
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	670

Client ID: **SB302**
Site:

Lab Sample No: **SB302**
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3249.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Dimethylphthalate	ND	330
Acenaphthylene	ND	330
2,6-Dinitrotoluene	ND	67
3-Nitroaniline	ND	670
Acenaphthene	ND	330
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	67
Diethylphthalate	ND	330
4-Chlorophenyl-phenylether	ND	330
Fluorene	ND	330
4-Nitroaniline	ND	670
N-Nitrosodiphenylamine	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	33
Phenanthrene	ND	330
Anthracene	ND	330
Carbazole	ND	330
Di-n-butylphthalate	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Benzidine	ND	1300
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	670
Benzo(a)anthracene	ND	33
Chrysene	ND	330
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	33
Benzo(k)fluoranthene	ND	33
Benzo(a)pyrene	ND	33
Indeno(1,2,3-cd)pyrene	ND	33
Dibenz(a,h)anthracene	ND	33
Benzo(g,h,i)perylene	ND	330
Pyridine	ND	330

Client ID: **SB302**
Site:

Lab Sample No: **SB302**
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3249.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Aniline	ND	330
Benzyl Alcohol	ND	330
1,2-Diphenylhydrazine	ND	330
Diphenyl	ND	330
Diphenyl Ether	ND	330
Acetophenone	ND	330
1,4-Dioxane	ND	330
N,N-Dimethylaniline	ND	33
Benzaldehyde	ND	330
Caprolactam	ND	330
Atrazine	ND	330

Client ID: **SB302**
Site:

Lab Sample No: **SB302**
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3249.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 0.0

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	Unknown	8.81	280	
2.	Unknown Aldol Condensate	9.45	3100	
3.	Unknown Aldol Condensate	10.20	64000	
4.	Unknown Aldol Condensate	11.58	4000	
5.	Unknown Aldol Condensate	13.00	350	
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
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22.				
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24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION	71730

Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/l3249.d
Report Date: 31-Oct-2000 09:34

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/l3249.d
Lab Smp Id: SB302 Client Smp ID: BN
Inj Date : 30-OCT-2000 15:21
Operator : BNAMS 4 Inst ID: BNAMS7.i
Smp Info : SB302;30;2;1;
Misc Info : SB302;BN;;;
Comment :
Method : /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/8270C1.m
Meth Date : 30-Oct-2000 15:17 acierno Quant Type: ISTD
Cal Date : 27-OCT-2000 12:29 Cal File: l3224.d
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all-AEsurr.sub
Target Version: 3.50
Processing Host: hpd1

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	2.00000	Volume of final extract (ml)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

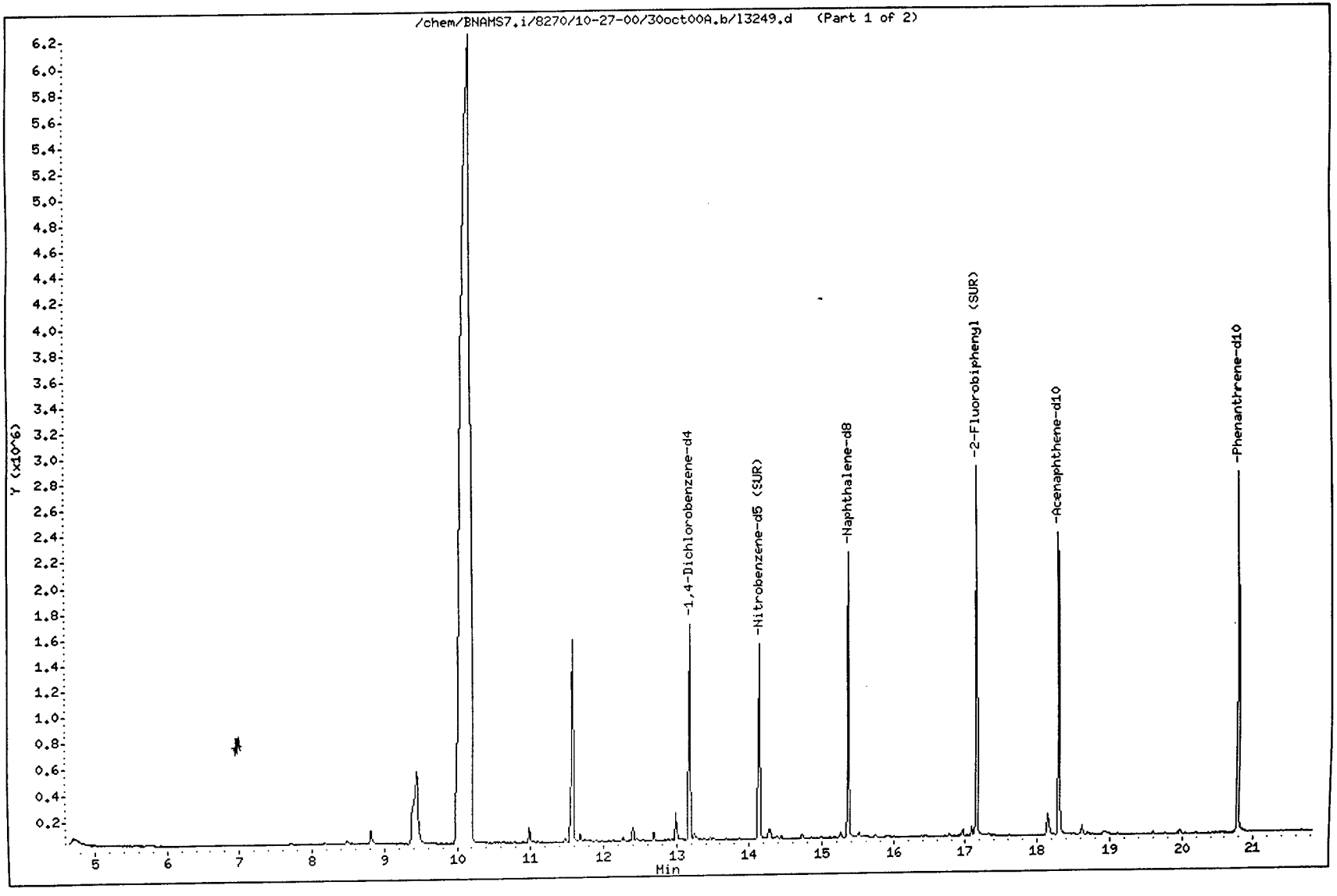
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
* 79 1,4-Dichlorobenzene-d4	152	13.181	13.186	(1.000)	312678	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	14.132	14.147	(0.920)	677126	51.4275	3400
* 80 Naphthalene-d8	136	15.359	15.374	(1.000)	1272898	40.0000	
$ 77 2-Fluorobiphenyl (SUR)	172	17.149	17.164	(0.937)	1061603	51.3446	3400
* 82 Acenaphthene-d10	164	18.294	18.309	(1.000)	760513	40.0000	
* 83 Phenanthrene-d10	188	20.779	20.794	(1.000)	1368983	40.0000	
$ 78 Terphenyl-d14 (SUR)	244	23.407	23.411	(0.927)	1426745	53.9765	3600
* 81 Chrysene-d12	240	25.247	25.282	(1.000)	1301253	40.0000	
* 84 Perylene-d12	264	29.030	29.066	(1.000)	1192220	40.0000	

Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13249.d
Date : 30-OCT-2000 15:21
Client ID: BN
Sample Info: SB302;30;2;1;

Column phase: DB-5

Instrument: BNAMS7.i

Operator: BNAMS 4
Column diameter: 0.25

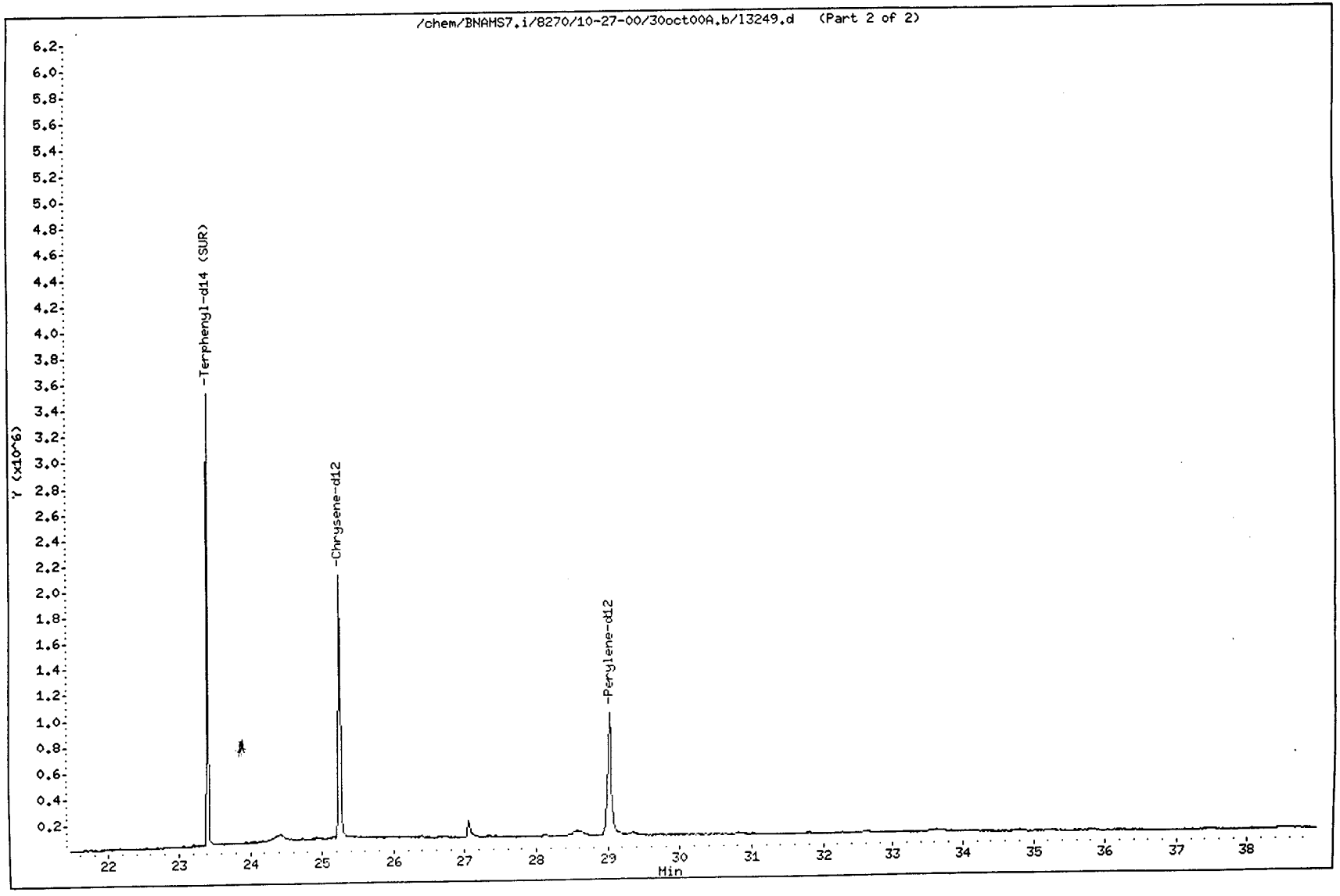


Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13249.d
Date : 30-OCT-2000 15:21
Client ID: BN
Sample Info: SB302;30;2;1;

Instrument: BNAMS7.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5



971

LAB SAMPLE NO.

SB305

SEMIVOLATILE METHOD BLANK SUMMARY

Matrix: SOIL

Level: LOW

Instrument ID: BNAMS7

Date Analyzed: 11/01/00

Time Analyzed: 1722

Lab File ID: L3314

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

	CLIENT ID.	LAB SAMPLE NO	LAB FILE ID	DATE ANALYZED
01	TPE-3	237820	L3319	11/01/00
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
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27				
28				
29				
30				

COMMENTS:

Client ID: **SB305**
Site:

Lab Sample No: **SB305**
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Extracted: 10/31/00
Date Analyzed: 11/01/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3314.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	330
2-Chlorophenol	ND	330
2-Methylphenol	ND	330
4-Methylphenol	ND	330
2-Nitrophenol	ND	330
2,4-Dimethylphenol	ND	330
2,4-Dichlorophenol	ND	330
4-Chloro-3-methylphenol	ND	330
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	330
2,4-Dinitrophenol	ND	1300
4-Nitrophenol	ND	1300
4,6-Dinitro-2-methylphenol	ND	1300
Pentachlorophenol	ND	1300
Benzoic Acid	ND	330
N-Nitrosodimethylamine	ND	330
bis(2-Chloroethyl)ether	ND	33
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
1,2-Dichlorobenzene	ND	330
bis(2-chloroisopropyl)ether	ND	330
N-Nitroso-di-n-propylamine	ND	33
Hexachloroethane	ND	33
Nitrobenzene	ND	33
Isophorone	ND	330
bis(2-Chloroethoxy)methane	ND	330
1,2,4-Trichlorobenzene	ND	33
Naphthalene	ND	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	67
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	670

Client ID: **SB305**
Site:

Lab Sample No: **SB305**
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Extracted: 10/31/00
Date Analyzed: 11/01/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13314.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Dimethylphthalate	ND	330
Acenaphthylene	ND	330
2,6-Dinitrotoluene	ND	67
3-Nitroaniline	ND	670
Acenaphthene	ND	330
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	67
Diethylphthalate	ND	330
4-Chlorophenyl-phenylether	ND	330
Fluorene	ND	330
4-Nitroaniline	ND	670
N-Nitrosodiphenylamine	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	33
Phenanthrene	ND	330
Anthracene	ND	330
Carbazole	ND	330
Di-n-butylphthalate	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Benzidine	ND	1300
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	670
Benzo(a)anthracene	ND	33
Chrysene	ND	330
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	33
Benzo(k)fluoranthene	ND	33
Benzo(a)pyrene	9.5J	33
Indeno(1,2,3-cd)pyrene	ND	33
Dibenz(a,h)anthracene	ND	33
Benzo(g,h,i)perylene	ND	330
Pyridine	ND	330

Client ID: **SB305**
Site:

Lab Sample No: **SB305**
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Extracted: 10/31/00
Date Analyzed: 11/01/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3314.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Aniline	ND	330
Benzyl Alcohol	ND	330
1,2-Diphenylhydrazine	ND	330
Diphenyl	ND	330
Diphenyl Ether	ND	330
Acetophenone	ND	330
1,4-Dioxane	ND	330
N,N-Dimethylaniline	ND	33
2,3,7,8-TCDD (Screen)	ND	33
Benzaldehyde	ND	330
Caprolactam	ND	330
Atrazine	ND	330

Client ID: **SB305**
Site:

Lab Sample No: **SB305**
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Extracted: 10/31/00
Date Analyzed: 11/01/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3314.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 0.0

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. Unknown Aldol Condensate	9.38	3800	
2. Unknown Aldol Condensate	10.14	110000	
3. Unknown Aldol Condensate	10.92	280	
4. Unknown Aldol Condensate	11.52	4700	
5. Unknown Aldol Condensate	12.94	400	
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
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27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION	119180

Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/l3314.d
Report Date: 16-Nov-2000 08:55

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS7.i/8270/11-01-00/01nov00.b/l3314.d
Lab Smp Id: SB305 Client Smp ID: SB305
Inj Date : 01-NOV-2000 17:22
Operator : BNAMS 4 Inst ID: BNAMS7.i
Smp Info : SB305-1;30;2;1;
Misc Info : SB305-1;BNA;;;
Comment :
Method : /chem/BNAMS7.i/8270/11-01-00/01nov00.b/8270C1.m
Meth Date : 02-Nov-2000 06:00 acierno Quant Type: ISTD
Cal Date : 01-NOV-2000 15:44 Cal File: l3312.d
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	2.00000	Volume of final extract (ml)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
$ 16 2-Fluorophenol (SUR)	112	10.719	10.682	(0.817)	657846	112.132	7500
$ 17 Phenol-d5 (SUR)	99	12.498	12.482	(0.952)	991128	104.701	7000
* 79 1,4-Dichlorobenzene-d4	152	13.122	13.116	(1.000)	217291	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	14.073	14.077	(0.920)	556098	46.9352	3100
* 80 Naphthalene-d8	136	15.300	15.304	(1.000)	771898	40.0000	
$ 77 2-Fluorobiphenyl (SUR)	172	17.100	17.094	(0.937)	817266	47.1222	3100
* 82 Acenaphthene-d10	164	18.245	18.249	(1.000)	540239	40.0000	
$ 18 2,4,6-Tribromophenol (SUR)	330	19.554	19.558	(1.072)	446214	120.889	8000(AR)
* 83 Phenanthrene-d10	188	20.719	20.723	(1.000)	1149904	40.0000	
$ 78 Terphenyl-d14 (SUR)	244	23.347	23.341	(0.927)	1447071	60.1703	4000
* 81 Chrysene-d12	240	25.178	25.192	(1.000)	1118908	40.0000	
67 Benzo(a)pyrene	252	28.899	28.709	(1.000)	3715	0.14194	9.5(a)
* 84 Perylene-d12	264	28.899	28.914	(1.000)	958962	40.0000	

Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/l3314.d
Report Date: 16-Nov-2000 08:55

QC Flag Legend

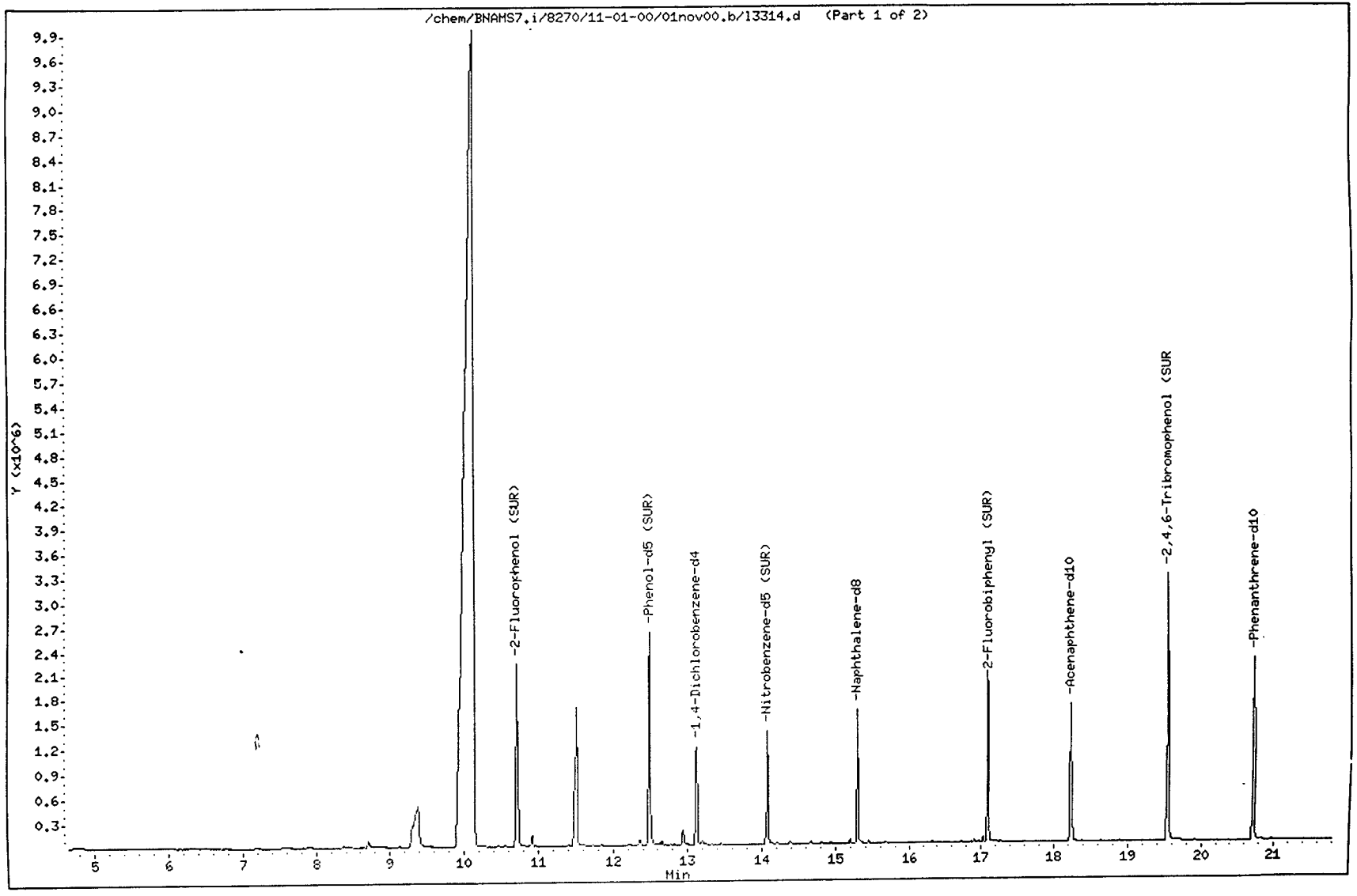
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/l3314.d
Date : 01-NOV-2000 17:22
Client ID: SB305
Sample Info: SB305-1;30;2;1;

Column phase: DB-5

Instrument: BNAMS7.i

Operator: BNAMS 4
Column diameter: 0.25

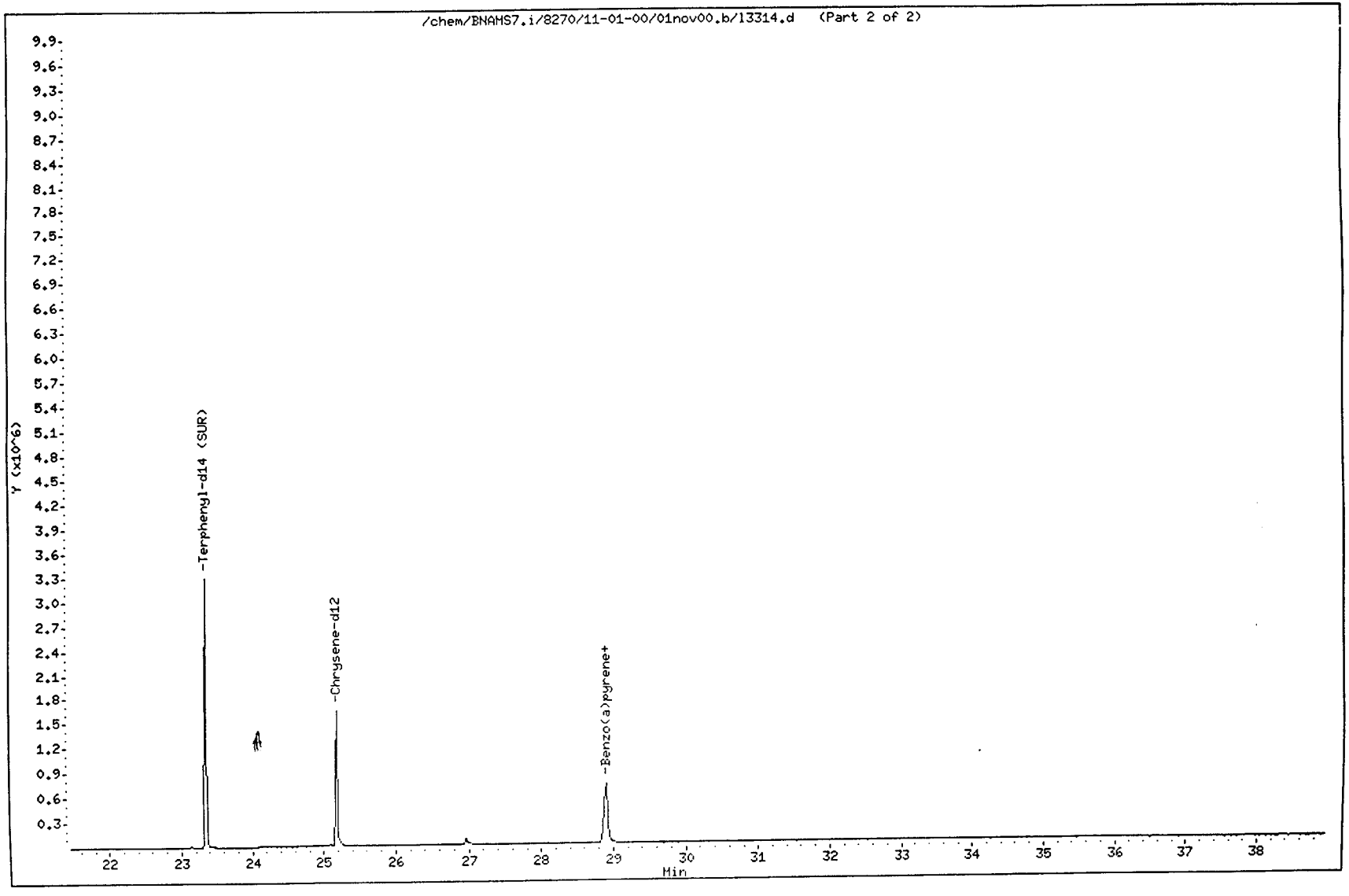


Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/l3314.d
Date : 01-NOV-2000 17:22
Client ID: SB305
Sample Info: SB305-1;30;2;1;

Column phase: DB-5

Instrument: BNAMS7.i

Operator: BNAMS 4
Column diameter: 0.25



Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/13314.d

Date : 01-NOV-2000 17:22

Client ID: SB305

Instrument: BNAMS7.i

Sample Info: SB305-1;30;2;1;

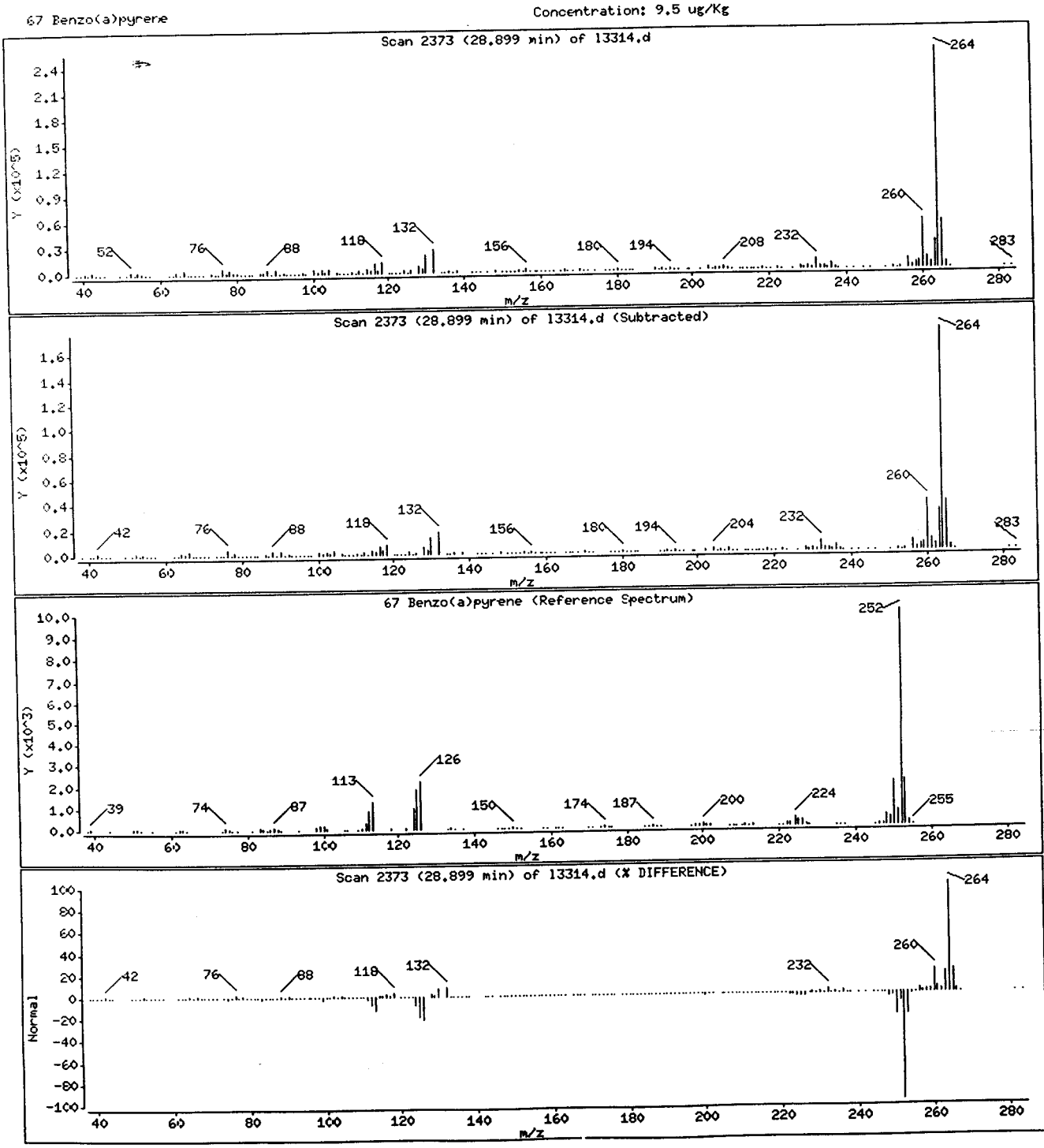
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

67 Benzo(a)pyrene

Concentration: 9.5 ug/Kg



Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/13314.d

Date : 01-NOV-2000 17:22

Client ID: SB305

Instrument: BNAMS7.i

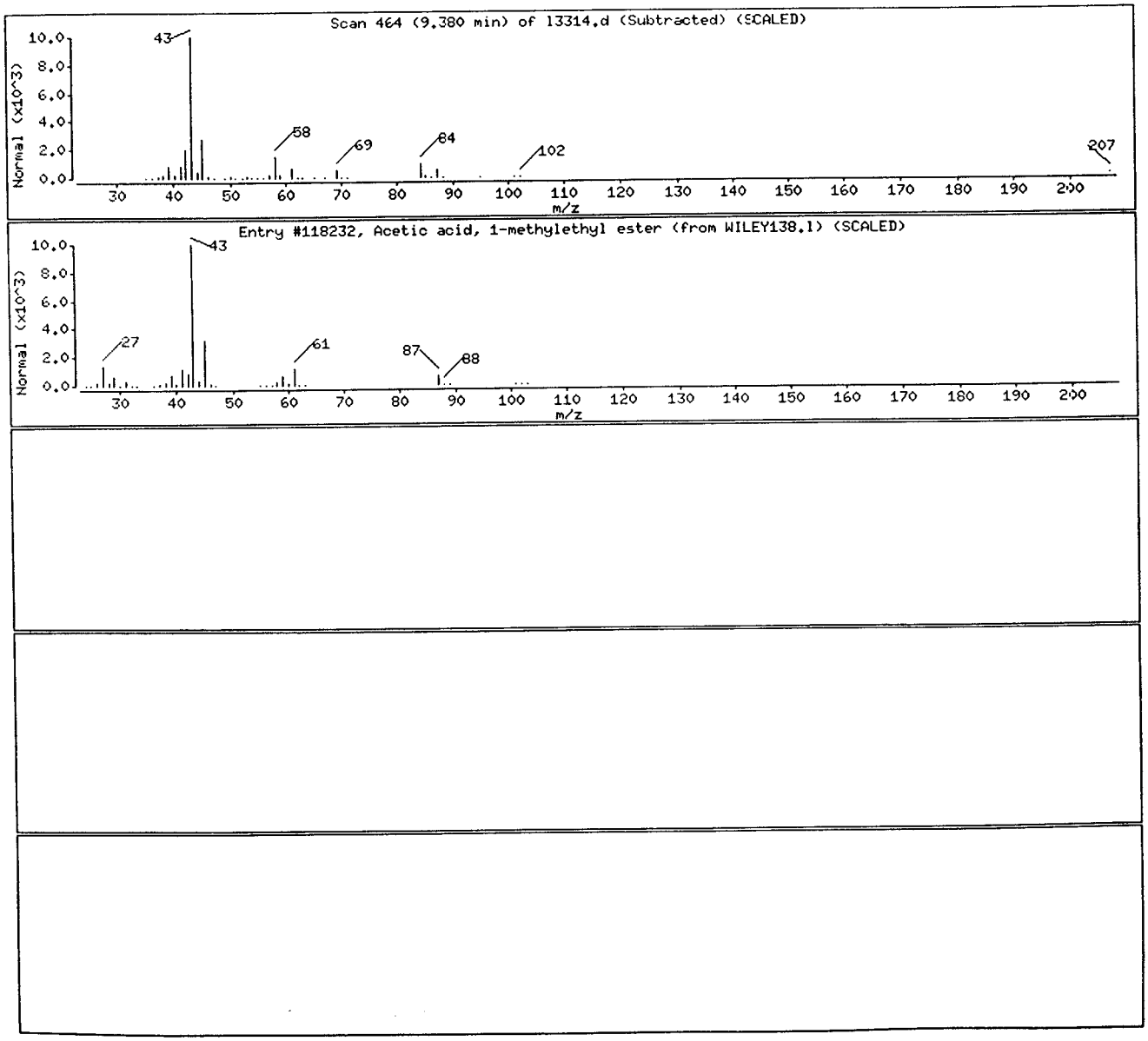
Sample Info: SB305-1;30;2;1;

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
Acetic acid, 1-methylethyl ester	108-21-4	WILEY138.1	118232	23	C5H10O2	102



Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/13314.d

Date : 01-NOV-2000 17:22

Client ID: SB305

Instrument: BNAMS7.i

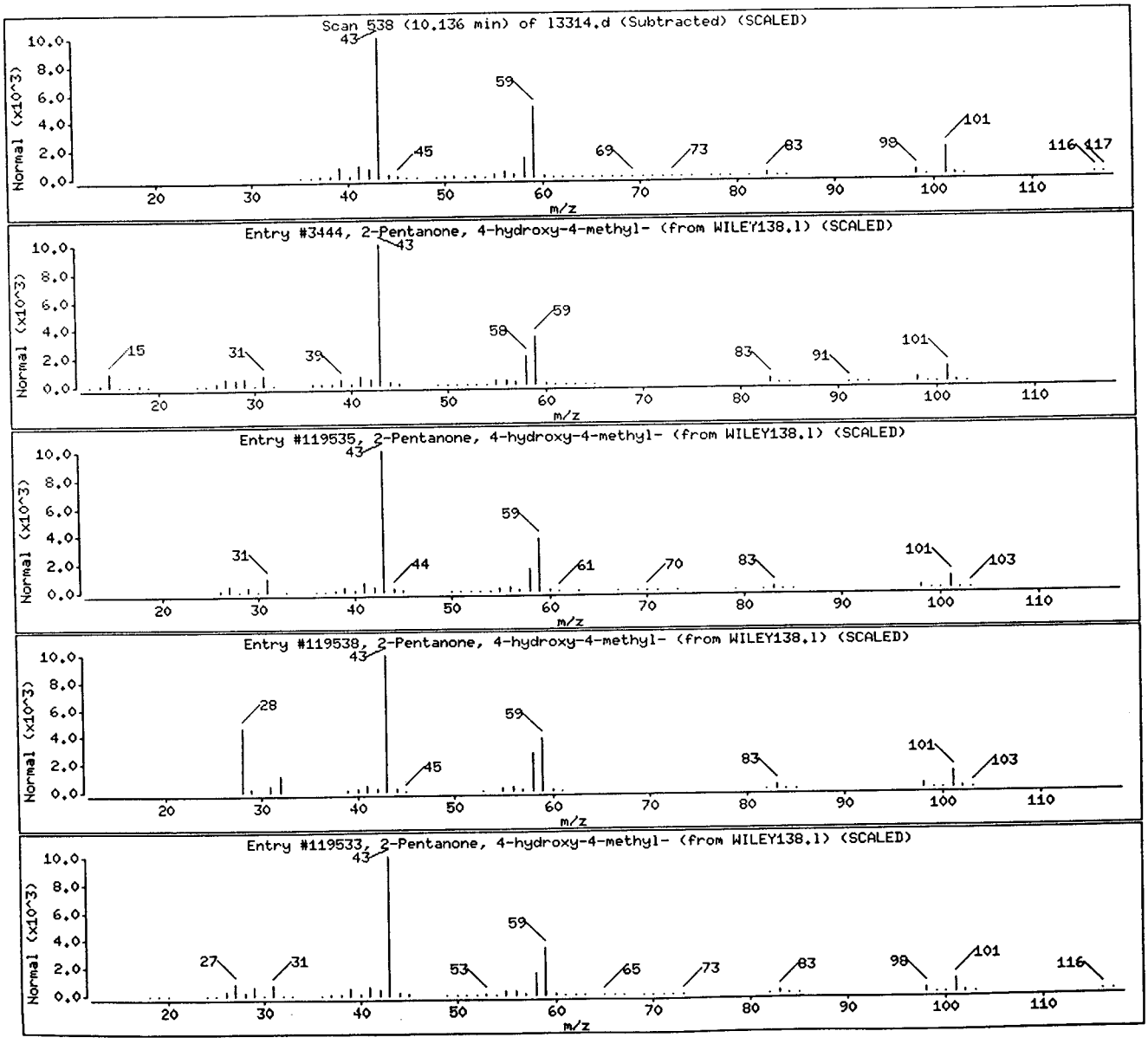
Sample Info: SB305-1;30;2;1;

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	WILEY138.l	3444	64	C6H1202	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	WILEY138.l	119535	50	C6H1202	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	WILEY138.l	119538	50	C6H1202	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	WILEY138.l	119533	42	C6H1202	116



Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/13314.d

Date : 01-NOV-2000 17:22

Client ID: SB305

Instrument: BNAMS7.i

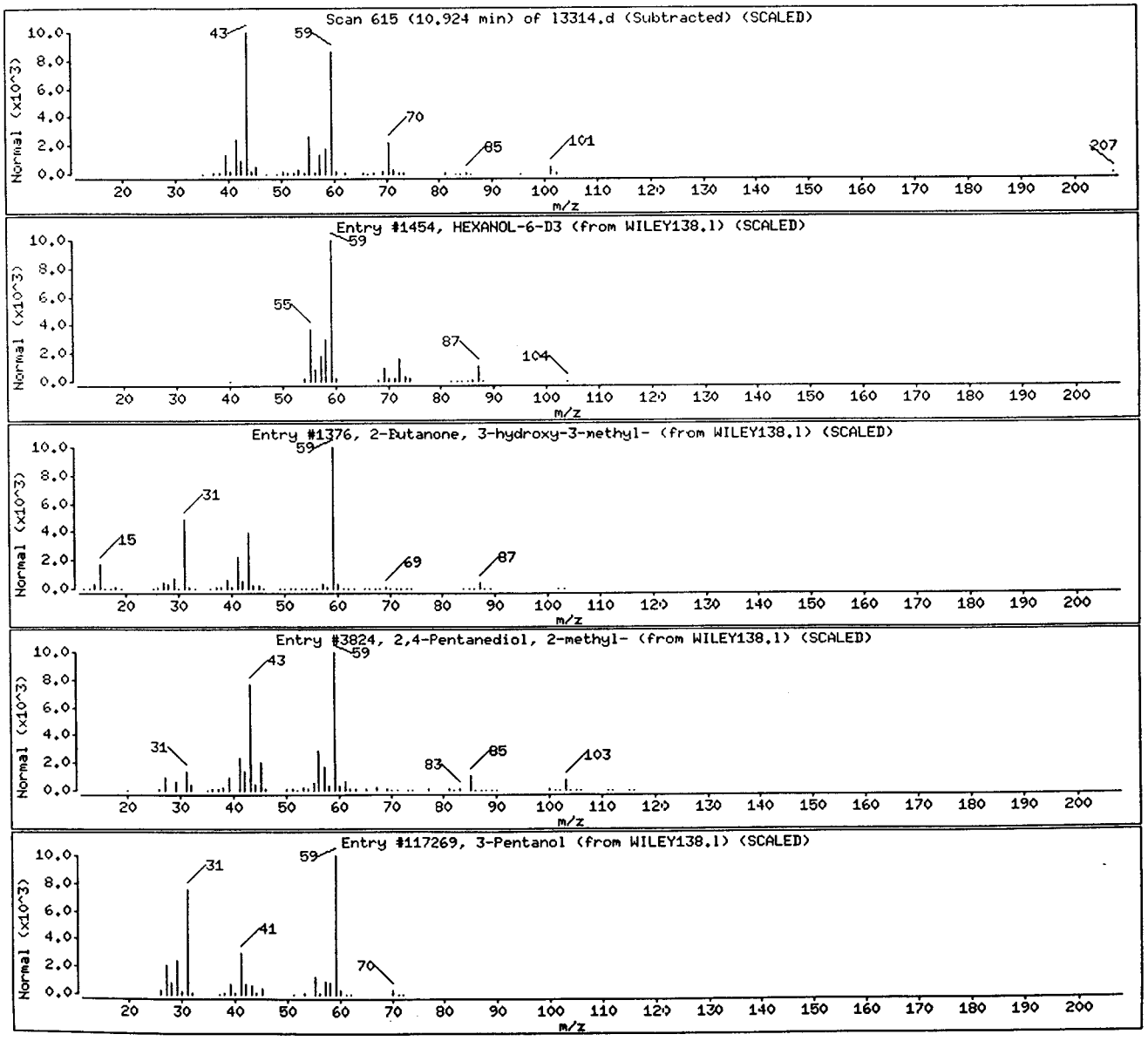
Sample Info: SB305-1;30;2;1;

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
HEXANOL-6-D3	53778-66-8	WILEY138.1	1454	50	C6H11D3O	102
2-Butanone, 3-hydroxy-3-methyl-	115-22-0	WILEY138.1	1376	37	C5H10O2	102
2,4-Pentanediol, 2-methyl-	107-41-5	WILEY138.1	3824	36	C6H14O2	118
3-Pentanol	584-02-1	WILEY138.1	117269	33	C5H12O	88



Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/13314.d

Date : 01-NOV-2000 17:22

Client ID: SB305

Instrument: BNAMS7.i

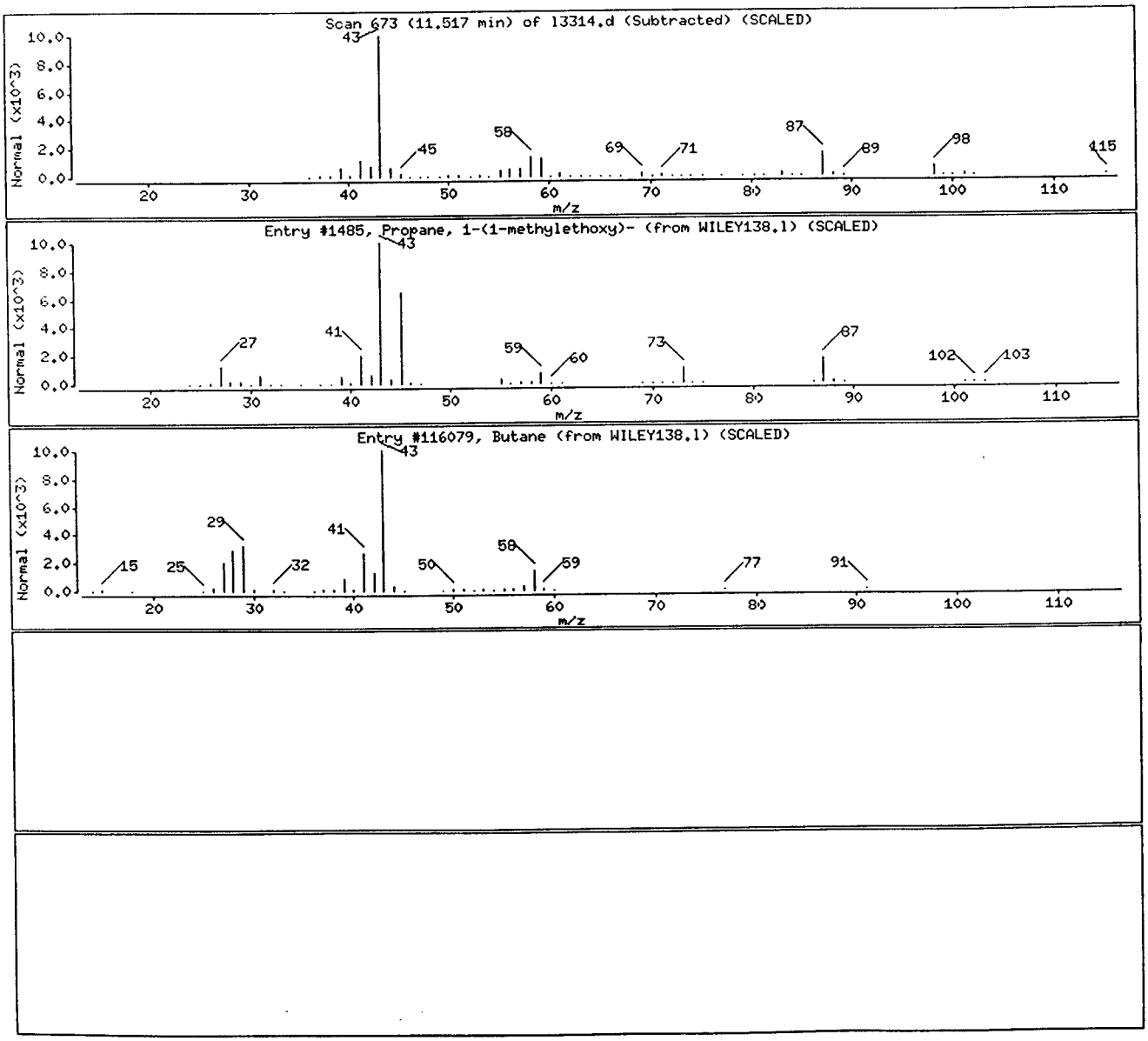
Sample Info: SB305-1;30;2;1;

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
Propane, 1-(1-methylethoxy)-	627-08-7	WILEY138.1	1485	33	C6H14O	102
Butane	106-97-8	WILEY138.1	116079	32	C4H10	58



Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/13314.d

Date : 01-NOV-2000 17:22

Client ID: SB305

Instrument: BNAMS7.i

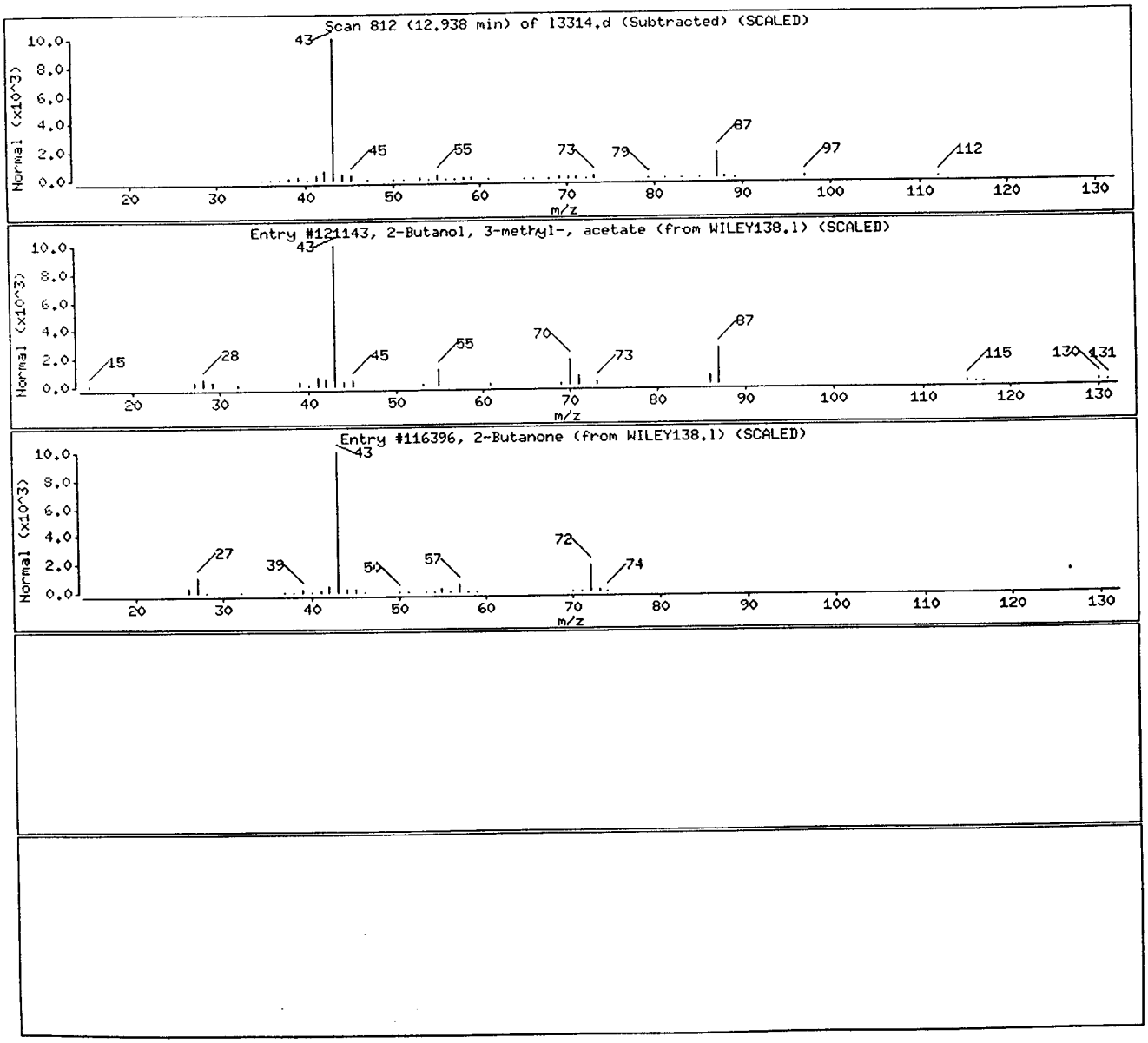
Sample Info: SB305-1;30;2;1;

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Butanol, 3-methyl-, acetate	5343-96-4	WILEY138.l	121143	50	C7H1402	130
2-Butanone	78-93-3	WILEY138.l	116396	28	C4H80	72



SEMIVOLATILE METHOD BLANK SUMMARY

LAB SAMPLE NO.

SB306

Matrix: SOIL

Level: LOW

Instrument ID: BNAMS7

Date Analyzed: 11/01/00

Time Analyzed: 1811

Lab File ID: L3315

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

	CLIENT ID.	LAB SAMPLE NO	LAB FILE ID	DATE ANALYZED
01	RC-3_3RD_FLRRE	237827RE	L3322	11/01/00
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
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28				
29				
30				

COMMENTS:

Client ID: SB306
Site:

Lab Sample No: SB306
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Extracted: 11/01/00
Date Analyzed: 11/01/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3315.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	330
2-Chlorophenol	ND	330
2-Methylphenol	ND	330
4-Methylphenol	ND	330
2-Nitrophenol	ND	330
2,4-Dimethylphenol	ND	330
2,4-Dichlorophenol	ND	330
4-Chloro-3-methylphenol	ND	330
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	330
2,4-Dinitrophenol	ND	1300
4-Nitrophenol	ND	1300
4,6-Dinitro-2-methylphenol	ND	1300
Pentachlorophenol	ND	1300
Benzoic Acid	ND	330
N-Nitrosodimethylamine	ND	330
bis(2-Chloroethyl)ether	ND	33
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
1,2-Dichlorobenzene	ND	330
bis(2-chloroisopropyl)ether	ND	330
N-Nitroso-di-n-propylamine	ND	33
Hexachloroethane	ND	33
Nitrobenzene	ND	33
Isophorone	ND	330
bis(2-Chloroethoxy)methane	ND	330
1,2,4-Trichlorobenzene	ND	33
Naphthalene	ND	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	67
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	670

Client ID: SB306
Site:

Lab Sample No: SB306
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Extracted: 11/01/00
Date Analyzed: 11/01/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3315.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Dimethylphthalate	ND	330
Acenaphthylene	ND	330
2,6-Dinitrotoluene	ND	67
3-Nitroaniline	ND	670
Acenaphthene	ND	330
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	67
Diethylphthalate	ND	330
4-Chlorophenyl-phenylether	ND	330
Fluorene	ND	330
4-Nitroaniline	ND	670
N-Nitrosodiphenylamine	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	33
Phenanthrene	ND	330
Anthracene	ND	330
Carbazole	ND	330
Di-n-butylphthalate	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Benzidine	ND	1300
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	670
Benzo(a)anthracene	ND	33
Chrysene	ND	330
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	33
Benzo(k)fluoranthene	ND	33
Benzo(a)pyrene	ND	33
Indeno(1,2,3-cd)pyrene	ND	33
Dibenz(a,h)anthracene	ND	33
Benzo(g,h,i)perylene	ND	330
Pyridine	ND	330

Client ID: **SB306**
Site:

Lab Sample No: **SB306**
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Extracted: 11/01/00
Date Analyzed: 11/01/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3315.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Aniline	ND	330
Benzyl Alcohol	ND	330
1,2-Diphenylhydrazine	ND	330
Diphenyl	ND	330
Diphenyl Ether	ND	330
Acetophenone	ND	330
1,4-Dioxane	ND	330
N,N-Dimethylaniline	ND	33
2,3,7,8-TCDD (Screen)	ND	33
Benzaldehyde	ND	330
Caprolactam	ND	330
Atrazine	ND	330

Client ID: SB306
Site:

Lab Sample No: SB306
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Extracted: 11/01/00
Date Analyzed: 11/01/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3315.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 0.0

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	Unknown Aldol Condensate	9.37	4300	
2.	Unknown Aldol Condensate	10.12	120000	
3.	Unknown Aldol Condensate	10.92	310	
4.	Unknown Aldol Condensate	11.52	5400	
5.	Unknown Aldol Condensate	12.93	440	
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
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29.				
30.				

TOTAL ESTIMATED CONCENTRATION 130450

Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/l3315.d
Report Date: 02-Nov-2000 08:13

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS7.i/8270/11-01-00/01nov00.b/l3315.d
Lab Smp Id: SB306 Client Smp ID: BNA
Inj Date : 01-NOV-2000 18:11
Operator : BNAMS 4 Inst ID: BNAMS7.i
Smp Info : SB306;30;2;1;
Misc Info : SB306;BNA;;;
Comment :
Method : /chem/BNAMS7.i/8270/11-01-00/01nov00.b/8270C1.m
Meth Date : 02-Nov-2000 06:00 acierno Quant Type: ISTD
Cal Date : 01-NOV-2000 15:44 Cal File: l3312.d
Als bottle: 8 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpd1

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	2.00000	Volume of final extract (ml)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

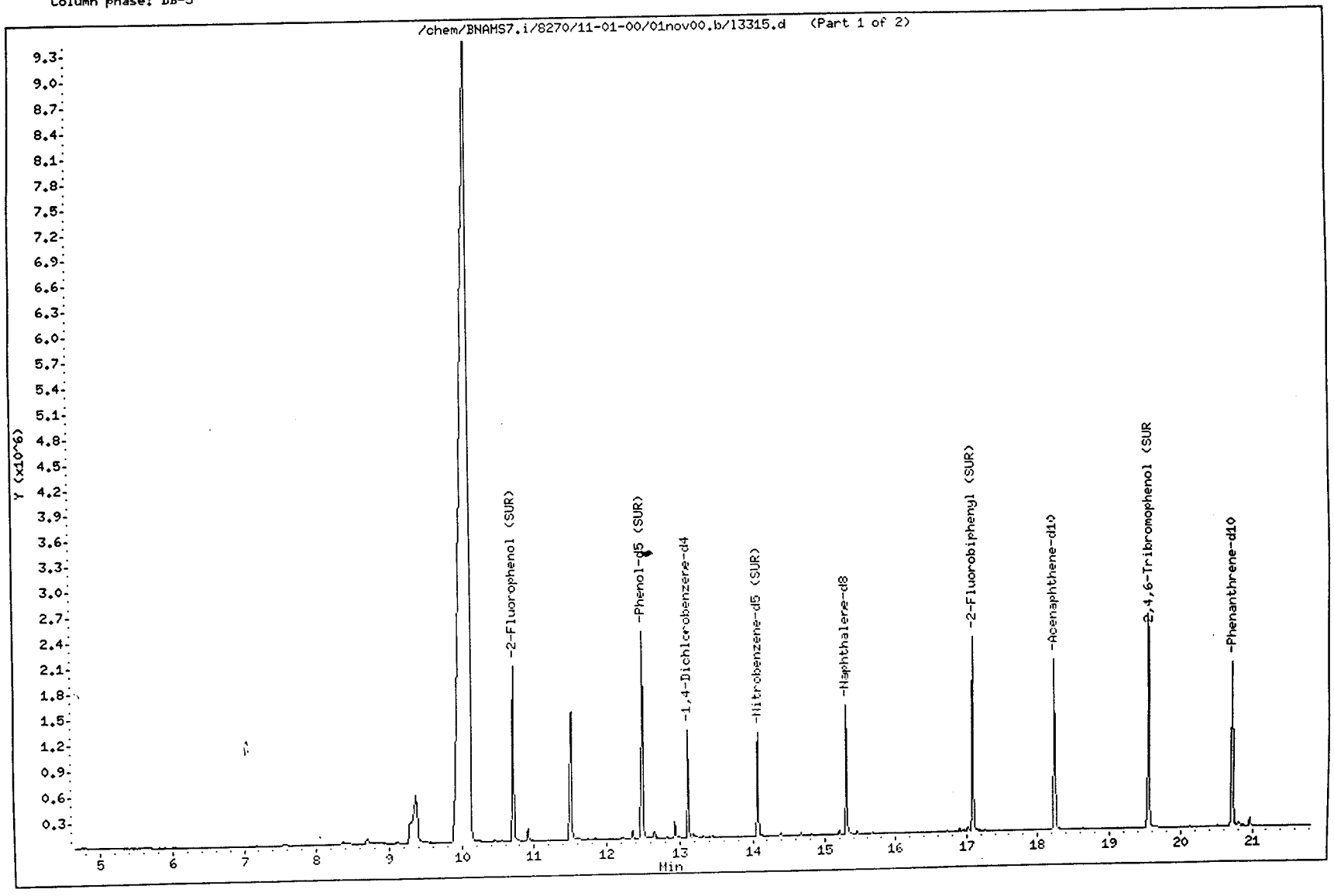
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
$	16 2-Fluorophenol (SUR)	112	10.714	10.682	(0.817)	557650	109.969	7300
$	17 Phenol-d5 (SUR)	99	12.493	12.482	(0.952)	874033	106.821	7100
*	79 1,4-Dichlorobenzene-d4	152	13.117	13.116	(1.000)	187817	40.0000	
$	76 Nitrobenzene-d5 (SUR)	82	14.078	14.077	(0.920)	521172	47.3085	3200
*	80 Naphthalene-d8	136	15.295	15.304	(1.000)	717710	40.0000	
$	77 2-Fluorobiphenyl (SUR)	172	17.094	17.094	(0.937)	755187	45.2227	3000
*	82 Acenaphthene-d10	164	18.240	18.249	(1.000)	520171	40.0000	
$	18 2,4,6-Tribromophenol (SUR)	330	19.559	19.558	(1.072)	387296	108.975	7300
*	83 Phenanthrene-d10	188	20.724	20.723	(1.000)	1114152	40.0000	
$	78 Terphenyl-d14 (SUR)	244	23.352	23.341	(0.927)	1406857	59.9643	4000
*	81 Chrysene-d12	240	25.182	25.192	(1.000)	1091550	40.0000	
*	84 Perylene-d12	264	28.894	28.914	(1.000)	899970	40.0000	

Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/13315.d
Date : 01-NOV-2000 18:11
Client ID: BNA
Sample Info: SB306;30;2;1;

Instrument: BNAMS7.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5

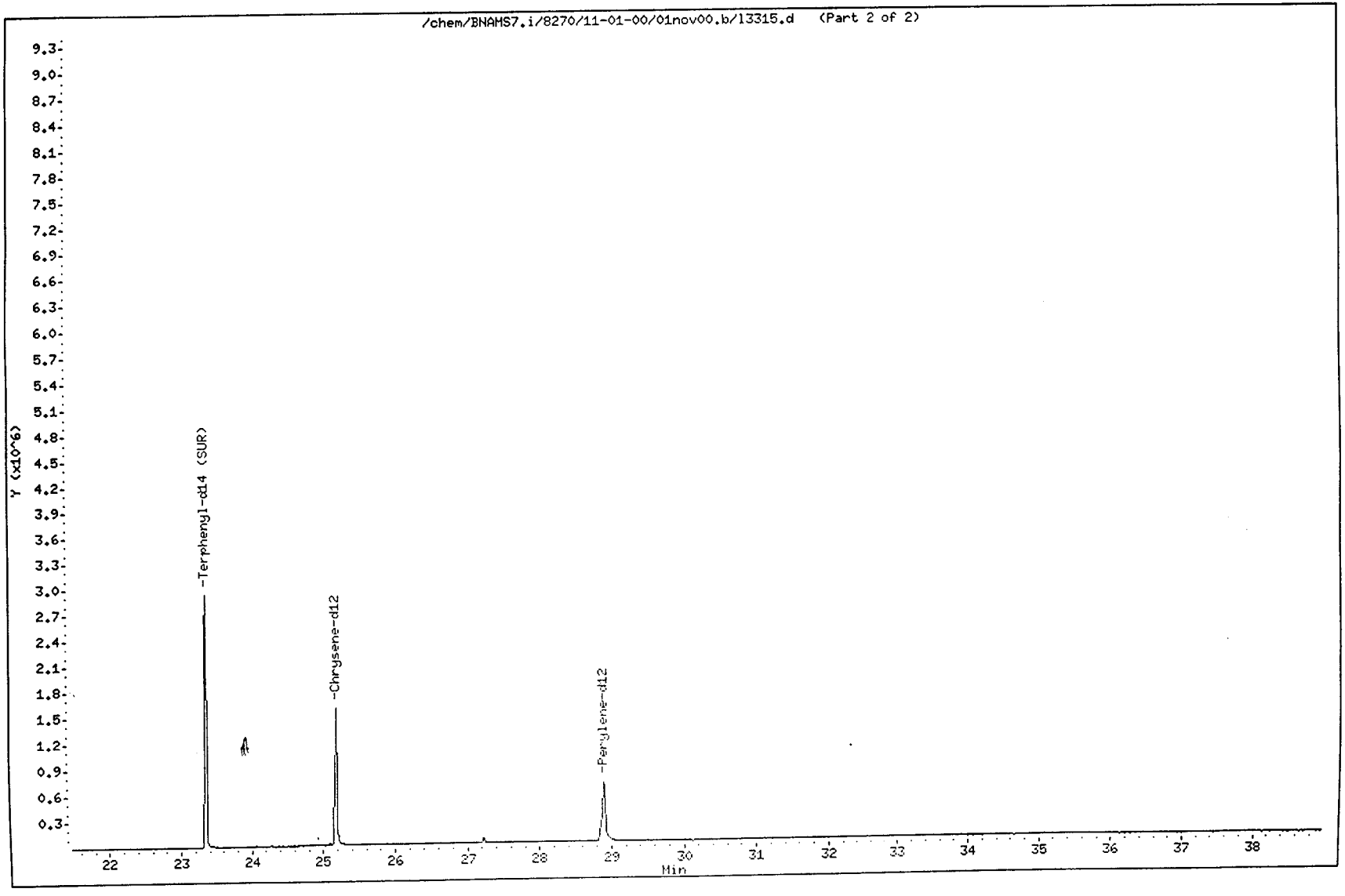


Data File: /chem/BNAMS7.i/8270/11-01-00/01nov00.b/13315.d
Date : 01-NOV-2000 18:11
Client ID: BNA
Sample Info: SB306;30;2;1;

Column phase: DB-5

Instrument: BNAMS7.i

Operator: BNAMS 4
Column diameter: 0.25



SEMIVOLATILE METHOD BLANK SUMMARY

LAB SAMPLE NO.

WB302

Matrix: WATER

Level: LOW

Instrument ID: BNAMS8

Date Analyzed: 10/31/00

Time Analyzed: 1223

Lab File ID: AA2515

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

	CLIENT ID.	LAB SAMPLE NO	LAB FILE ID	DATE ANALYZED
01	MW-1	237821	AA2509	10/30/00
02	PZ-2	237822	AA2510	10/31/00
03	FIELD_BLANK-1025	237824	AA2513	10/31/00
04	FIELD_BLANK-1026	237831	AA2514	10/31/00
05				
06				
07				
08				
09				
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29				
30				

COMMENTS:

Client ID: **WB302**
Site:

Lab Sample No: **WB302**
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa2515.d

Matrix: WATER
Level: LOW
Sample Volume: 1000 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 625

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Phenol	ND	1.0
2-Chlorophenol	ND	1.9
2-Methylphenol	ND	2.0
4-Methylphenol	ND	1.9
2-Nitrophenol	ND	1.7
2,4-Dimethylphenol	ND	1.3
2,4-Dichlorophenol	ND	1.3
4-Chloro-3-methylphenol	ND	1.9
2,4,6-Trichlorophenol	ND	0.6
2,4,5-Trichlorophenol	ND	0.6
2,4-Dinitrophenol	ND	1.1
4-Nitrophenol	ND	1.0
4,6-Dinitro-2-methylphenol	ND	1.3
Pentachlorophenol	ND	1.6
Benzoic Acid	ND	2.8
N-Nitrosodimethylamine	ND	0.5
bis(2-Chloroethyl)ether	ND	1.1
1,3-Dichlorobenzene	ND	0.6
1,4-Dichlorobenzene	ND	0.6
1,2-Dichlorobenzene	ND	0.6
bis(2-chloroisopropyl)ether	ND	1.1
N-Nitroso-di-n-propylamine	ND	0.8
Hexachloroethane	ND	0.7
Nitrobenzene	ND	0.8
Isophorone	ND	0.9
bis(2-Chloroethoxy)methane	ND	0.9
1,2,4-Trichlorobenzene	ND	0.6
Naphthalene	ND	0.8
4-Chloroaniline	ND	0.8
Hexachlorobutadiene	ND	0.6
2-Methylnaphthalene	ND	0.6
Hexachlorocyclopentadiene	ND	0.9
2-Chloronaphthalene	ND	0.8
2-Nitroaniline	ND	0.7

Client ID: **WB302**
Site:

Lab Sample No: **WB302**
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa2515.d

Matrix: WATER
Level: LOW
Sample Volume: 1000 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 625

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Dimethylphthalate	ND	0.5
Acenaphthylene	ND	0.5
2,6-Dinitrotoluene	ND	0.7
3-Nitroaniline	ND	0.4
Acenaphthene	ND	0.6
Dibenzofuran	ND	0.4
2,4-Dinitrotoluene	ND	0.6
Diethylphthalate	ND	0.4
4-Chlorophenyl-phenylether	ND	0.5
Fluorene	ND	0.7
4-Nitroaniline	ND	0.6
N-Nitrosodiphenylamine	ND	0.6
4-Bromophenyl-phenylether	ND	1.2
Hexachlorobenzene	ND	0.6
Phenanthrene	ND	0.5
Anthracene	ND	0.3
Carbazole	ND	0.6
Di-n-butylphthalate	ND	0.5
Fluoranthene	ND	0.5
Pyrene	ND	0.6
Benzidine	ND	13
Butylbenzylphthalate	ND	0.7
3,3'-Dichlorobenzidine	ND	4.7
Benzo(a)anthracene	ND	0.4
Chrysene	ND	0.6
bis(2-Ethylhexyl)phthalate	ND	2.0
Di-n-octylphthalate	ND	0.3
Benzo(b)fluoranthene	ND	0.4
Benzo(k)fluoranthene	ND	0.6
Benzo(a)pyrene	ND	0.2
Indeno(1,2,3-cd)pyrene	ND	0.5
Dibenz(a,h)anthracene	ND	0.3
Benzo(g,h,i)perylene	ND	0.4
Pyridine	ND	0.6

Client ID: **WB302**
Site:

Lab Sample No: **WB302**
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa2515.d

Matrix: WATER
Level: LOW
Sample Volume: 1000 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 625

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Aniline	ND	1.0
Benzyl Alcohol	ND	0.8
1,2-Diphenylhydrazine	ND	0.5
Diphenyl	ND	0.7
Diphenyl Ether	ND	10
Acetophenone	ND	1.0
N,N-Dimethylaniline	ND	0.7
1,4-Dioxane	ND	0.6
2,3,7,8-TCDD (screen)	ND	1.0
Benzaldehyde	ND	1.8
Caprolactum	ND	0.2
Atrazine	ND	1.0

Client ID: **WB302**
Site:

Lab Sample No: **WB302**
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa2515.d

Matrix: WATER
Level: LOW
Sample Volume: 1000 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 625

	COMPOUND NAME	RT	EST. CONC. ug/l	Q
1.	NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
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22.				
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24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION 0.0

Data File: /chem/BNAMS8.i/625/10-24-00/31oct00.b/aa2515.d
Report Date: 14-Nov-2000 14:03

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS8.i/625/10-24-00/31oct00.b/aa2515.d
Lab Smp Id: WB302 Client Smp ID: BNA
Inj Date : 31-OCT-2000 12:23
Operator : BNAMS 1 Inst ID: BNAMS8.i
Smp Info : WB302;1000;2;1
Misc Info : ;BNA;;;
Comment :
Method : /chem/BNAMS8.i/625/10-24-00/31oct00.b/BNA625b.m
Meth Date : 31-Oct-2000 10:53 zhang Quant Type: ISTD
Cal Date : 24-OCT-2000 17:30 Cal File: aa2381.d
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpd1

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

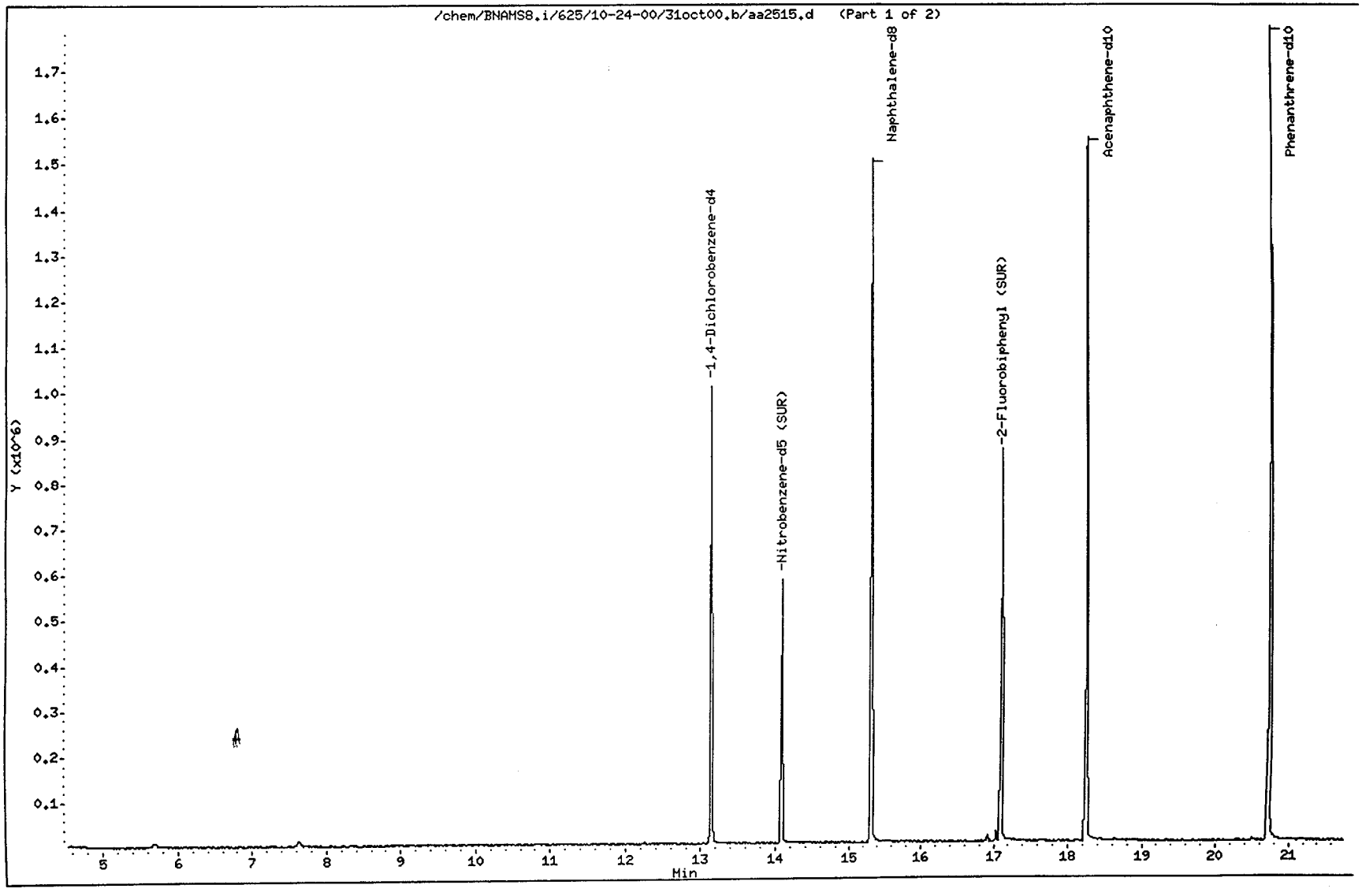
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
* 79 1,4-Dichlorobenzene-d4	152	13.132	13.133	(1.000)	224067	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	14.084	14.095	(0.920)	231650	24.1886	48(R)
* 80 Naphthalene-d8	136	15.312	15.313	(1.000)	916003	40.0000	
$ 77 2-Fluorobiphenyl (SUR)	172	17.103	17.104	(0.937)	392635	25.2759	50
* 82 Acenaphthene-d10	164	18.249	18.250	(1.000)	553104	40.0000	
* 83 Phenanthrene-d10	188	20.715	20.716	(1.000)	1017946	40.0000	
$ 78 Terphenyl-d14 (SUR)	244	23.335	23.336	(0.928)	567698	27.5454	55(R)
* 81 Chrysene-d12	240	25.156	25.168	(1.000)	874473	40.0000	
* 84 Perylene-d12	264	28.840	28.841	(1.000)	848823	40.0000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

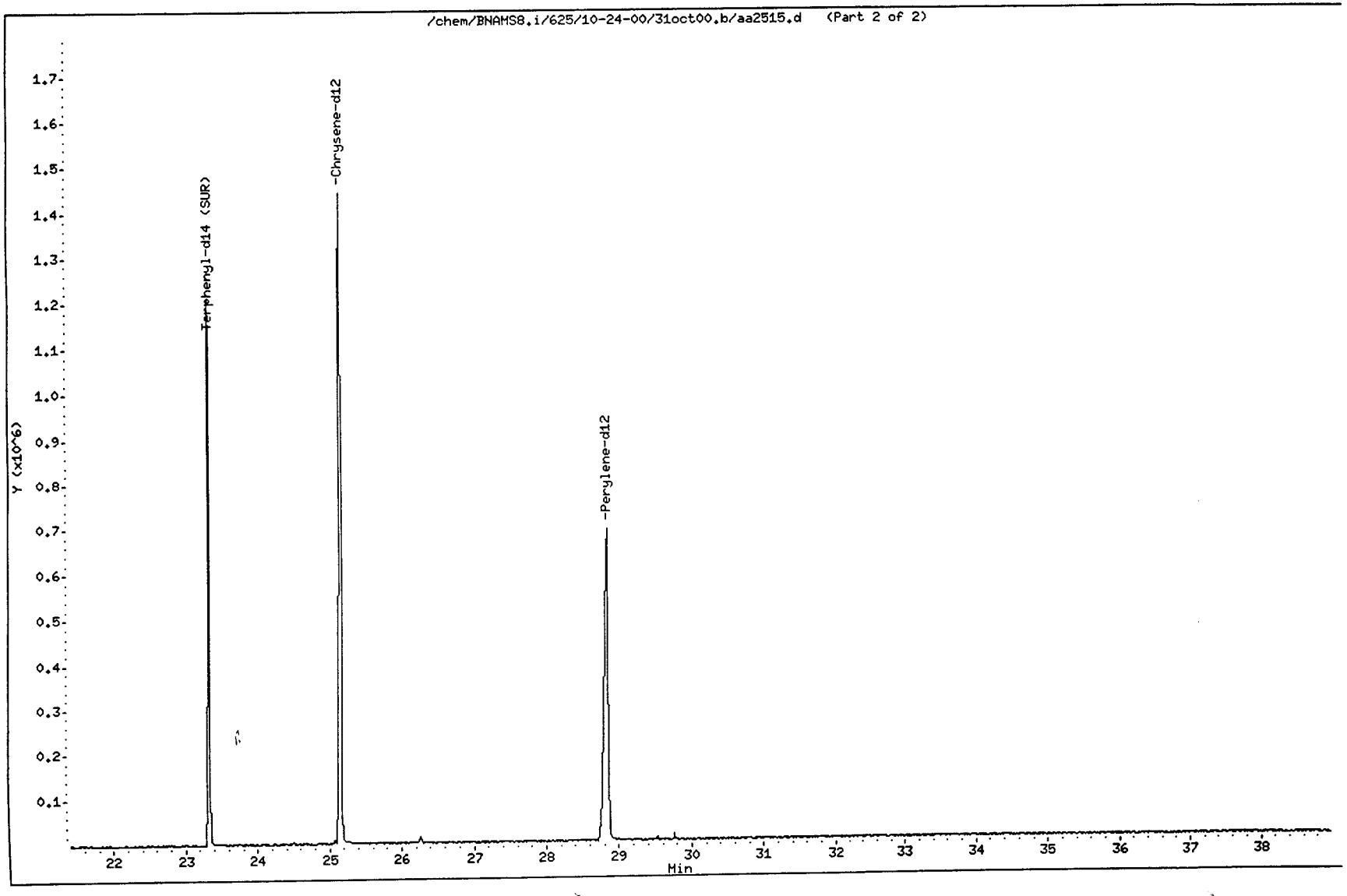
Data File: /chem/BNAMS8.i/625/10-24-00/31oct00.b/aa2515.d
Date : 31-OCT-2000 12:23
Client ID: BNA
Sample Info: WB302;1000;2;1
Purge Volume: 1000.0
Column phase: DB-5

Instrument: BNAMS8.i
Operator: BNAMS 1
Column diameter: 0.53



Data File: /chem/BNAMS8.i/625/10-24-00/31oct00.b/aa2515.d
Date : 31-OCT-2000 12:23
Client ID: BNA
Sample Info: WB302;1000;2;1
Purge Volume: 1000.0
Column phase: DB-5

Instrument: BNAMS8.i
Operator: BNAMS 1
Column diameter: 0.53



SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA
METHOD 8270C

Instrument ID: BNAMS7 Calibration Date(s): 10/27/00 10/27/00

Calibration Time(s): 0914 1229

LAB FILE ID: RRF5: L3222 RRF20: L3224 RRF50: L3220
RRF80: L3223 RRF120: L3221

COMPOUND	RRF5	RRF20	RRF50	RRF80	RRF120
Phenol	1.659	1.792	1.874	1.826	1.687
2-Chlorophenol	1.325	1.379	1.401	1.435	1.480
2-Methylphenol	1.202	1.300	1.298	1.312	1.278
4-Methylphenol	1.270	1.410	1.255	1.088	0.956
2-Nitrophenol	0.192	0.202	0.199	0.205	0.203
2,4-Dimethylphenol	0.307	0.314	0.317	0.318	0.311
2,4-Dichlorophenol	0.281	0.277	0.299	0.299	0.294
4-Chloro-3-methylphenol	0.346	0.356	0.371	0.360	0.359
2,4,6-Trichlorophenol	0.343	0.348	0.357	0.368	0.361
2,4,5-Trichlorophenol	0.348	0.374	0.375	0.382	0.380
2,4-Dinitrophenol	0.110	0.159	0.168	0.187	0.189
4-Nitrophenol	0.285	0.294	0.288	0.295	0.289
4,6-Dinitro-2-methylphenol	0.120	0.136	0.139	0.144	0.149
Pentachlorophenol	0.115	0.133	0.143	0.142	0.146
Benzoic Acid	0.067	0.113	0.123	0.138	0.132
N-Nitrosodimethylamine	0.584	0.569	0.635	0.675	0.691
bis(2-Chloroethyl)ether	1.643	1.438	1.359	1.353	1.357
1,3-Dichlorobenzene	1.469	1.508	1.484	1.463	1.466
1,4-Dichlorobenzene	1.571	1.557	1.543	1.481	1.487
1,2-Dichlorobenzene	1.478	1.530	1.476	1.458	1.437
bis(2-chloroisopropyl)ether	2.060	1.995	1.883	1.790	1.657
N-Nitroso-di-n-propylamine	1.156	1.129	0.973	0.924	0.906
Hexachloroethane	0.645	0.714	0.713	0.696	0.695
Nitrobenzene	0.528	0.534	0.498	0.481	0.463
Isophorone	0.810	0.767	0.762	0.746	0.751
bis(2-Chloroethoxy)methane	0.437	0.432	0.428	0.420	0.398
1,2,4-Trichlorobenzene	0.302	0.297	0.304	0.298	0.288
Naphthalene	1.025	1.044	1.033	0.974	0.902
4-Chloroaniline	0.419	0.424	0.412	0.403	0.412
Hexachlorobutadiene	0.178	0.199	0.191	0.194	0.187
2-Methylnaphthalene	0.639	0.649	0.643	0.615	0.567
Hexachlorocyclopentadiene	0.170	0.132	0.221	0.203	0.251
2-Chloronaphthalene	1.079	1.078	1.062	1.069	1.032
2-Nitroaniline	0.438	0.391	0.385	0.396	0.380
Dimethylphthalate	1.480	1.486	1.458	1.418	1.386
Acenaphthylene	1.754	1.740	1.737	1.720	1.633
2,6-Dinitrotoluene	0.311	0.341	0.336	0.339	0.328
3-Nitroaniline	0.309	0.349	0.352	0.360	0.362
Acenaphthene	1.105	1.107	1.116	1.052	1.004

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8270C

Instrument ID: BNAMS7 Calibration Date(s): 10/27/00 10/27/00

Calibration Time(s): 0914 1229

LAB FILE ID: RRF5: L3222 RRF20: L3224 RRF50: L3220
RRF80: L3223 RRF120: L3221

COMPOUND	RRF5	RRF20	RRF50	RRF80	RRF120
Dibenzofuran	1.497	1.472	1.517	1.454	1.397
2,4-Dinitrotoluene	0.441	0.469	0.463	0.474	0.463
Diethylphthalate	1.669	1.699	1.644	1.600	1.558
4-Chlorophenyl-phenylether	0.563	0.550	0.546	0.496	0.475
Fluorene	1.244	1.256	1.246	1.178	1.099
4-Nitroaniline	0.374	0.380	0.353	0.349	0.344
N-Nitrosodiphenylamine	0.434	0.480	0.492	0.485	0.470
4-Bromophenyl-phenylether	0.197	0.194	0.198	0.195	0.193
Hexachlorobenzene	0.244	0.233	0.235	0.223	0.226
Phenanthrene	1.008	1.011	1.004	0.950	0.922
Anthracene	1.005	1.049	1.009	0.944	0.932
Carbazole	0.837	0.854	0.815	0.793	0.840
Di-n-butylphthalate	1.636	1.656	1.604	1.452	1.441
Fluoranthene	1.032	1.091	1.058	1.011	1.026
Pyrene	1.064	1.048	1.108	1.058	1.017
Benzidine	0.207	0.272	0.190	0.124	0.139
Butylbenzylphthalate	0.767	0.760	0.764	0.744	0.693
3,3'-Dichlorobenzidine	0.335	0.382	0.344	0.336	0.336
Benzo(a)anthracene	1.193	0.996	1.004	1.019	0.997
Chrysene	0.908	0.985	0.995	0.978	0.969
bis(2-Ethylhexyl)phthalate	1.116	1.100	0.955	0.947	0.983
Di-n-octylphthalate	2.116	2.124	2.200	2.214	2.111
Benzo(b)fluoranthene	0.765	0.991	1.038	1.146	1.265
Benzo(k)fluoranthene	1.200	1.208	1.258	1.332	1.208
Benzo(a)pyrene	0.899	0.963	1.063	1.117	1.112
Indeno(1,2,3-cd)pyrene	1.098	0.779	0.951	1.032	1.106
Dibenz(a,h)anthracene	0.845	0.940	0.950	1.068	1.107
Benzo(g,h,i)perylene	0.911	0.969	1.029	1.052	1.089
Pyridine	0.931	1.003	1.015	1.044	1.043
Aniline	1.828	1.832	1.778	1.707	1.671
Benzyl Alcohol	0.835	0.975	0.978	0.989	0.993
1,2-Diphenylhydrazine	0.878	0.876	0.821	0.794	0.779
Diphenyl	1.331	1.320	1.316	1.250	1.155
Diphenyl Ether	0.702	0.696	0.686	0.676	0.622
Acetophenone	2.101	2.240	1.967	1.807	1.692
1,4-Dioxane	0.344	0.350	0.349	0.350	0.375
N,N-Dimethylaniline	2.037	2.156	1.960	1.823	1.762
2,3,7,8-TCDD (Screen)			0.124		
Benzaldehyde	1.066	0.902	0.672	0.621	0.502

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8270C

Instrument ID: BNAMS7 Calibration Date(s): 10/27/00 10/27/00

Calibration Time(s): 0914 1229

LAB FILE ID: RRF5: L3222 RRF20: L3224 RRF50: L3220
RRF80: L3223 RRF120: L3221

COMPOUND	RRF5	RRF20	RRF50	RRF80	RRF120
Caprolactam	0.145	0.146	0.140	0.126	0.126
Atrazine	0.208	0.198	0.166	0.142	0.169
2-Fluorophenol (SUR)	1.062	1.098	1.120	1.154	1.213
Phenol-d5 (SUR)	1.529	1.667	1.660	1.664	1.688
2,4,6-Tribromophenol (SUR)	0.236	0.231	0.230	0.234	0.239
Nitrobenzene-d5 (SUR)	0.393	0.421	0.415	0.424	0.416
2-Fluorobiphenyl (SUR)	1.102	1.115	1.121	1.063	1.036
Terphenyl-d14 (SUR)	0.827	0.818	0.828	0.778	0.811

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8270C

Instrument ID: BNAMS7 Calibration Date(s): 10/27/00 10/27/00

Calibration Time(s): 0914 1229

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Phenol	AVRG	1.76766993	5.2*
2-Chlorophenol	AVRG	1.40409976	4.2*
2-Methylphenol	AVRG	1.27813219	3.5*
4-Methylphenol	AVRG	1.19597097	14.7*
2-Nitrophenol	AVRG	0.20022856	2.4*
2,4-Dimethylphenol	AVRG	0.31343951	1.4*
2,4-Dichlorophenol	AVRG	0.28989100	3.5*
4-Chloro-3-methylphenol	AVRG	0.35844934	2.5*
2,4,6-Trichlorophenol	AVRG	0.35546813	2.8*
2,4,5-Trichlorophenol	AVRG	0.37175098	3.7*
2,4-Dinitrophenol	AVRG	0.16251824	19.7**
4-Nitrophenol	AVRG	0.29034159	1.6**
4,6-Dinitro-2-methylphenol	AVRG	0.13751181	8.0*
Pentachlorophenol	AVRG	0.13579485	9.2*
Benzoic Acid	AVRG	0.11468066	24.8*
N-Nitrosodimethylamine	AVRG	0.63073342	8.6*
bis(2-Chloroethyl)ether	AVRG	1.42999571	8.7*
1,3-Dichlorobenzene	AVRG	1.47810943	1.3*
1,4-Dichlorobenzene	AVRG	1.52777845	2.7*
1,2-Dichlorobenzene	AVRG	1.47585074	2.3*
bis(2-chloroisopropyl)ether	AVRG	1.87690195	8.6*
N-Nitroso-di-n-propylamine	AVRG	1.01764005	11.4**
Hexachloroethane	AVRG	0.69248885	4.0*
Nitrobenzene	AVRG	0.50107550	6.0*
Isophorone	AVRG	0.76713768	3.3*
bis(2-Chloroethoxy)methane	AVRG	0.42302695	3.6*
1,2,4-Trichlorobenzene	AVRG	0.29793987	2.0*
Naphthalene	AVRG	0.99583748	5.9*
4-Chloroaniline	AVRG	0.41410523	2.0*
Hexachlorobutadiene	AVRG	0.18992080	4.3*
2-Methylnaphthalene	AVRG	0.62270308	5.4*
Hexachlorocyclopentadiene	AVRG	0.19547866	23.4**
2-Chloronaphthalene	AVRG	1.06386015	1.8*
2-Nitroaniline	AVRG	0.39815862	5.8*
Dimethylphthalate	AVRG	1.44575246	3.0*
Acenaphthylene	AVRG	1.71679975	2.8*
2,6-Dinitrotoluene	AVRG	0.33125141	3.6*
3-Nitroaniline	AVRG	0.34640906	6.3*
Acenaphthene	AVRG	1.07676385	4.4*

* Compound with required maximum % RSD value.
** Compound with required minimum RRF value.

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8270C

Instrument ID: BNAMS7

Calibration Date(s): 10/27/00 10/27/00

Calibration Time(s): 0914 1229

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Dibenzofuran	AVRG	1.46752673	3.1*
2,4-Dinitrotoluene	AVRG	0.46196360	2.7*
Diethylphthalate	AVRG	1.63401603	3.4*
4-Chlorophenyl-phenylether	AVRG	0.52591092	7.3*
Fluorene	AVRG	1.20459234	5.5*
4-Nitroaniline	AVRG	0.36002008	4.4*
N-Nitrosodiphenylamine	AVRG	0.47250627	4.9*
4-Bromophenyl-phenylether	AVRG	0.19566769	1.1*
Hexachlorobenzene	AVRG	0.23216235	3.5*
Phenanthrene	AVRG	0.97906635	4.2*
Anthracene	AVRG	0.98798772	4.9*
Carbazole	AVRG	0.82788259	2.9*
Di-n-butylphthalate	AVRG	1.55786049	6.6*
Fluoranthene	AVRG	1.04361772	3.0*
Pyrene	AVRG	1.05897634	3.1*
Benzidine	AVRG	0.18680992	31.6*
Butylbenzylphthalate	AVRG	0.74570955	4.1*
3,3'-Dichlorobenzidine	AVRG	0.34642602	5.8*
Benzo(a)anthracene	AVRG	1.04179233	8.2*
Chrysene	AVRG	0.96718400	3.6*
bis(2-Ethylhexyl)phthalate	AVRG	1.02057489	8.0*
Di-n-octylphthalate	AVRG	2.15325117	2.3*
Benzo(b)fluoranthene	AVRG	1.04116315	18.0*
Benzo(k)fluoranthene	AVRG	1.24127737	4.5*
Benzo(a)pyrene	AVRG	1.03091946	9.3*
Indeno(1,2,3-cd)pyrene	AVRG	0.99317816	13.6*
Dibenz(a,h)anthracene	AVRG	0.98217908	10.7*
Benzo(g,h,i)perylene	AVRG	1.01016122	7.0*
Pyridine	AVRG	1.00721887	4.6*
Aniline	AVRG	1.76339800	4.1*
Benzyl Alcohol	AVRG	0.95400468	7.0*
1,2-Diphenylhydrazine	AVRG	0.82942720	5.5*
Diphenyl	AVRG	1.27461740	5.8*
Diphenyl Ether	AVRG	0.67654226	4.7*
Acetophenone	AVRG	1.96153820	11.2**
1,4-Dioxane	AVRG	0.35346804	3.4**
N,N-Dimethylaniline	AVRG	1.94766719	8.2**
2,3,7,8-TCDD (Screen)	AVRG	0.12385842	0.0**
Benzaldehyde	AVRG	0.75272946	30.2*

* Compound with required maximum % RSD value.
** Compound with required minimum RRF value.

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8270C

Instrument ID: BNAMS7 Calibration Date(s): 10/27/00 10/27/00

Calibration Time(s): 0914 1229

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Caprolactam	AVRG	0.13638485	7.3*
Atrazine	AVRG	0.17638633	14.9*
2-Fluorophenol (SUR)	AVRG	1.12963092	5.1*
Phenol-d5 (SUR)	AVRG	1.64146731	3.9*
2,4,6-Tribromophenol (SUR)	AVRG	0.23417809	1.5*
Nitrobenzene-d5 (SUR)	AVRG	0.41375205	3.0*
2-Fluorobiphenyl (SUR)	AVRG	1.08747801	3.4*
Terphenyl-d14 (SUR)	AVRG	0.81253150	2.6*

* Compound with required maximum % RSD value.
** Compound with required minimum RRF value.

SEMIVOLATILE ORGANICS CONTINUING CALIBRATION CHECK
METHOD 8270C

Instrument ID: BNAMS7 Calibration Date: 10/30/00 Time: 1432

Lab File ID: L3248 Init. Calib. Date(s): 10/27/00 10/27/00

Init. Calib. Times: 0914 1229

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Phenol	1.768	1.986		-12.3	20.0
2-Chlorophenol	1.404	1.423		-1.4	20.0
2-Methylphenol	1.278	1.349		-5.6	20.0
4-Methylphenol	1.196	1.339		-12.0	20.0
2-Nitrophenol	0.200	0.208		-4.0	20.0
2,4-Dimethylphenol	0.313	0.319		-1.9	20.0
2,4-Dichlorophenol	0.290	0.299		-3.1	20.0
4-Chloro-3-methylphenol	0.358	0.391		-9.2	20.0
2,4,6-Trichlorophenol	0.355	0.359		-1.1	20.0
2,4,5-Trichlorophenol	0.372	0.387		-4.0	20.0
2,4-Dinitrophenol	0.163	0.173	0.05	-6.1	20.0
4-Nitrophenol	0.290	0.322	0.05	-11.0	20.0
4,6-Dinitro-2-methylphenol	0.138	0.137		0.7	20.0
Pentachlorophenol	0.136	0.143		-5.1	20.0
Benzoic Acid	0.115	0.146		-27.0	20.0
N-Nitrosodimethylamine	0.631	0.633		-0.3	20.0
bis(2-Chloroethyl)ether	1.430	1.409		1.5	20.0
1,3-Dichlorobenzene	1.478	1.490		-0.8	20.0
1,4-Dichlorobenzene	1.528	1.558		-2.0	20.0
1,2-Dichlorobenzene	1.476	1.504		-1.9	20.0
bis(2-chloroisopropyl)ether	1.877	2.011		-7.1	20.0
N-Nitroso-di-n-propylamine	1.018	1.086	0.05	-6.7	20.0
Hexachloroethane	0.693	0.748		-7.9	20.0
Nitrobenzene	0.501	0.544		-8.6	20.0
Isophorone	0.767	0.798		-4.0	20.0
bis(2-Chloroethoxy)methane	0.423	0.442		-4.5	20.0
1,2,4-Trichlorobenzene	0.298	0.301		-1.0	20.0
Naphthalene	0.996	1.038		-4.2	20.0
4-Chloroaniline	0.414	0.419		-1.2	20.0
Hexachlorobutadiene	0.190	0.198		-4.2	20.0
2-Methylnaphthalene	0.623	0.657		-5.4	20.0
Hexachlorocyclopentadiene	0.195	0.219	0.05	-12.3	20.0
2-Chloronaphthalene	1.064	1.105		-3.8	20.0
2-Nitroaniline	0.398	0.444		-11.6	20.0
Dimethylphthalate	1.446	1.488		-2.9	20.0
Acenaphthylene	1.717	1.797		-4.6	20.0
2,6-Dinitrotoluene	0.331	0.341		-3.0	20.0

SEMIVOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 8270C

Instrument ID: BNAMS7 Calibration Date: 10/30/00 Time: 1432

Lab File ID: L3248 Init. Calib. Date(s): 10/27/00 10/27/00

Init. Calib. Times: 0914 1229

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
3-Nitroaniline	0.346	0.367		-6.1	20.0
Acenaphthene	1.077	1.123		-4.3	20.0
Dibenzofuran	1.467	1.535		-4.6	20.0
2,4-Dinitrotoluene	0.462	0.479		-3.7	20.0
Diethylphthalate	1.634	1.723		-5.4	20.0
4-Chlorophenyl-phenylether	0.526	0.543		-3.2	20.0
Fluorene	1.205	1.278		-6.0	20.0
4-Nitroaniline	0.360	0.378		-5.0	20.0
N-Nitrosodiphenylamine	0.472	0.493		-4.4	20.0
4-Bromophenyl-phenylether	0.195	0.192		1.5	20.0
Hexachlorobenzene	0.232	0.228		1.7	20.0
Phenanthrene	0.979	1.020		-4.2	20.0
Anthracene	0.988	1.018		-3.0	20.0
Carbazole	0.828	0.885		-6.9	20.0
Di-n-butylphthalate	1.558	1.681		-7.9	20.0
Fluoranthene	1.044	1.059		-1.4	20.0
Pyrene	1.059	1.101		-4.0	20.0
Benzidine	0.186	0.159		14.5	20.0
Butylbenzylphthalate	0.746	0.819		-9.8	20.0
3,3'-Dichlorobenzidine	0.347	0.355		-2.3	20.0
Benzo(a)anthracene	1.042	1.025		1.6	20.0
Chrysene	0.967	0.984		-1.8	20.0
bis(2-Ethylhexyl)phthalate	1.020	1.037		-1.7	20.0
Di-n-octylphthalate	2.153	2.450		-13.8	20.0
Benzo(b)fluoranthene	1.041	1.120		-7.6	20.0
Benzo(k)fluoranthene	1.241	1.280		-3.1	20.0
Benzo(a)pyrene	1.031	1.069		-3.7	20.0
Indeno(1,2,3-cd)pyrene	0.993	0.957		3.6	20.0
Dibenz(a,h)anthracene	0.982	1.043		-6.2	20.0
Benzo(g,h,i)perylene	1.010	1.034		-2.4	20.0
Pyridine	1.007	1.060		-5.3	20.0
Aniline	1.763	1.836		-4.1	20.0
Benzyl Alcohol	0.954	1.016		-6.5	20.0
1,2-Diphenylhydrazine	0.830	0.936		-12.8	20.0
Diphenyl	1.274	1.315		-3.2	20.0
Diphenyl Ether	0.676	0.701		-3.7	20.0
Acetophenone	1.961	2.136	0.01	-8.9	20.0

SEMIVOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 8270C

Instrument ID: BNAMS7 Calibration Date: 10/30/00 Time: 1432

Lab File ID: L3248 Init. Calib. Date(s): 10/27/00 10/27/00

Init. Calib. Times: 0914 1229

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
1,4-Dioxane	0.354	0.352	0.01	0.6	20.0
N,N-Dimethylaniline	1.948	2.068	0.01	-6.2	20.0
2,3,7,8-TCDD (Screen)	0.124	0.141	0.01	-13.7	20.0
Benzaldehyde	0.753	0.769		-2.1	20.0
Caprolactam	0.137	0.138		-0.7	20.0
Atrazine	0.177	0.160		9.6	20.0
2-Fluorophenol (SUR)	1.129	1.109		1.8	20.0
Phenol-d5 (SUR)	1.642	1.697		-3.3	20.0
2,4,6-Tribromophenol (SUR)	0.234	0.224		4.3	20.0
Nitrobenzene-d5 (SUR)	0.414	0.452		-9.2	20.0
2-Fluorobiphenyl (SUR)	1.087	1.125		-3.5	20.0
Terphenyl-d14 (SUR)	0.812	0.811		0.1	20.0

SEMIVOLATILE ORGANICS CONTINUING CALIBRATION CHECK
METHOD 8270C

Instrument ID: BNAMS7 Calibration Date: 10/31/00 Time: 0609

Lab File ID: L3265 Init. Calib. Date(s): 10/27/00 10/27/00

Init. Calib. Times: 0914 1229

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Phenol	1.768	2.019		-14.2	20.0
2-Chlorophenol	1.404	1.439		-2.5	20.0
2-Methylphenol	1.278	1.398		-9.4	20.0
4-Methylphenol	1.196	1.442		-20.6	20.0
2-Nitrophenol	0.200	0.202		-1.0	20.0
2,4-Dimethylphenol	0.313	0.315		-0.6	20.0
2,4-Dichlorophenol	0.290	0.296		-2.1	20.0
4-Chloro-3-methylphenol	0.358	0.395		-10.3	20.0
2,4,6-Trichlorophenol	0.355	0.360		-1.4	20.0
2,4,5-Trichlorophenol	0.372	0.376		-1.1	20.0
2,4-Dinitrophenol	0.163	0.158	0.05	3.1	20.0
4-Nitrophenol	0.290	0.332	0.05	-14.5	20.0
4,6-Dinitro-2-methylphenol	0.138	0.134		2.9	20.0
Pentachlorophenol	0.136	0.142		-4.4	20.0
Benzoic Acid	0.115	0.130		-13.0	20.0
N-Nitrosodimethylamine	0.631	0.603		4.4	20.0
bis(2-Chloroethyl)ether	1.430	1.450		-1.4	20.0
1,3-Dichlorobenzene	1.478	1.520		-2.8	20.0
1,4-Dichlorobenzene	1.528	1.584		-3.7	20.0
1,2-Dichlorobenzene	1.476	1.499		-1.6	20.0
bis(2-chloroisopropyl)ether	1.877	2.108		-12.3	20.0
N-Nitroso-di-n-propylamine	1.018	1.235	0.05	-21.3	20.0
Hexachloroethane	0.693	0.796		-14.9	20.0
Nitrobenzene	0.501	0.596		-19.0	20.0
Isophorone	0.767	0.820		-6.9	20.0
bis(2-Chloroethoxy)methane	0.423	0.450		-6.4	20.0
1,2,4-Trichlorobenzene	0.298	0.304		-2.0	20.0
Naphthalene	0.996	1.050		-5.4	20.0
4-Chloroaniline	0.414	0.431		-4.1	20.0
Hexachlorobutadiene	0.190	0.201		-5.8	20.0
2-Methylnaphthalene	0.623	0.662		-6.3	20.0
Hexachlorocyclopentadiene	0.195	0.175	0.05	10.2	20.0
2-Chloronaphthalene	1.064	1.089		-2.3	20.0
2-Nitroaniline	0.398	0.452		-13.6	20.0
Dimethylphthalate	1.446	1.489		-3.0	20.0
Acenaphthylene	1.717	1.780		-3.7	20.0
2,6-Dinitrotoluene	0.331	0.334		-0.9	20.0

SEMIVOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 8270C

Instrument ID: BNAMS7 Calibration Date: 10/31/00 Time: 0609

Lab File ID: L3265 Init. Calib. Date(s): 10/27/00 10/27/00

Init. Calib. Times: 0914 1229

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
3-Nitroaniline	0.346	0.344		0.6	20.0
Acenaphthene	1.077	1.142		-6.0	20.0
Dibenzofuran	1.467	1.544		-5.2	20.0
2,4-Dinitrotoluene	0.462	0.468		-1.3	20.0
Diethylphthalate	1.634	1.757		-7.5	20.0
4-Chlorophenyl-phenylether	0.526	0.553		-5.1	20.0
Fluorene	1.205	1.313		-9.0	20.0
4-Nitroaniline	0.360	0.354		1.7	20.0
N-Nitrosodiphenylamine	0.472	0.496		-5.1	20.0
4-Bromophenyl-phenylether	0.195	0.196		-0.5	20.0
Hexachlorobenzene	0.232	0.227		2.2	20.0
Phenanthrene	0.979	1.046		-6.8	20.0
Anthracene	0.988	1.037		-5.0	20.0
Carbazole	0.828	0.844		-1.9	20.0
Di-n-butylphthalate	1.558	1.736		-11.4	20.0
Fluoranthene	1.044	1.092		-4.6	20.0
Pyrene	1.059	1.072		-1.2	20.0
Benzidine	0.186	0.152		18.3	20.0
Butylbenzylphthalate	0.746	0.836		-12.1	20.0
3,3'-Dichlorobenzidine	0.347	0.341		1.7	20.0
Benzo(a)anthracene	1.042	1.009		3.2	20.0
Chrysene	0.967	0.980		-1.3	20.0
bis(2-Ethylhexyl)phthalate	1.020	1.078		-5.7	20.0
Di-n-octylphthalate	2.153	2.545		-18.2	20.0
Benzo(b)fluoranthene	1.041	1.067		-2.5	20.0
Benzo(k)fluoranthene	1.241	1.275		-2.7	20.0
Benzo(a)pyrene	1.031	1.041		-1.0	20.0
Indeno(1,2,3-cd)pyrene	0.993	0.962		3.1	20.0
Dibenz(a,h)anthracene	0.982	1.022		-4.1	20.0
Benzo(g,h,i)perylene	1.010	1.039		-2.9	20.0
Pyridine	1.007	1.065		-5.8	20.0
Aniline	1.763	1.915		-8.6	20.0
Benzyl Alcohol	0.954	1.022		-7.1	20.0
1,2-Diphenylhydrazine	0.830	1.007		-21.3	20.0
Diphenyl	1.274	1.330		-4.4	20.0
Diphenyl Ether	0.676	0.695		-2.8	20.0
Acetophenone	1.961	2.344	0.01	-19.5	20.0

SEMIVOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 8270C

Instrument ID: BNAMS7 Calibration Date: 10/31/00 Time: 0609

Lab File ID: L3265 Init. Calib. Date(s): 10/27/00 10/27/00

Init. Calib. Times: 0914 1229

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
1,4-Dioxane	0.354	0.356	0.01	-0.6	20.0
N,N-Dimethylaniline	1.948	2.257	0.01	-15.9	20.0
2,3,7,8-TCDD (Screen)	0.124	0.127	0.01	-2.4	20.0
Benzaldehyde	0.753	0.755		-0.3	20.0
Caprolactam	0.137	0.134		2.2	20.0
Atrazine	0.177	0.167		5.6	20.0
2-Fluorophenol (SUR)	1.129	1.127		0.2	20.0
Phenol-d5 (SUR)	1.642	1.740		-6.0	20.0
2,4,6-Tribromophenol (SUR)	0.234	0.212		9.4	20.0
Nitrobenzene-d5 (SUR)	0.414	0.466		-12.6	20.0
2-Fluorobiphenyl (SUR)	1.087	1.144		-5.2	20.0
Terphenyl-d14 (SUR)	0.812	0.819		-0.9	20.0

SEMIVOLATILE ORGANICS CONTINUING CALIBRATION CHECK
METHOD 8270C

Instrument ID: BNAMS7 Calibration Date: 10/31/00 Time: 1607

Lab File ID: L3280 Init. Calib. Date(s): 10/27/00 10/27/00

Init. Calib. Times: 0914 1229

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Phenol	1.768	1.904		-7.7	20.0
2-Chlorophenol	1.404	1.398		0.4	20.0
2-Methylphenol	1.278	1.307		-2.3	20.0
4-Methylphenol	1.196	1.406		-17.6	20.0
2-Nitrophenol	0.200	0.203		-1.5	20.0
2,4-Dimethylphenol	0.313	0.309		1.3	20.0
2,4-Dichlorophenol	0.290	0.308		-6.2	20.0
4-Chloro-3-methylphenol	0.358	0.393		-9.8	20.0
2,4,6-Trichlorophenol	0.355	0.370		-4.2	20.0
2,4,5-Trichlorophenol	0.372	0.387		-4.0	20.0
2,4-Dinitrophenol	0.163	0.159	0.05	2.4	20.0
4-Nitrophenol	0.290	0.310	0.05	-6.9	20.0
4,6-Dinitro-2-methylphenol	0.138	0.141		-2.2	20.0
Pentachlorophenol	0.136	0.144		-5.9	20.0
Benzoic Acid	0.115	0.110		4.3	20.0
N-Nitrosodimethylamine	0.631	0.558		11.6	20.0
bis(2-Chloroethyl)ether	1.430	1.351		5.5	20.0
1,3-Dichlorobenzene	1.478	1.498		-1.4	20.0
1,4-Dichlorobenzene	1.528	1.583		-3.6	20.0
1,2-Dichlorobenzene	1.476	1.497		-1.4	20.0
bis(2-chloroisopropyl)ether	1.877	1.876		0.0	20.0
N-Nitroso-di-n-propylamine	1.018	1.155	0.05	-13.4	20.0
Hexachloroethane	0.693	0.786		-13.4	20.0
Nitrobenzene	0.501	0.573		-14.4	20.0
Isophorone	0.767	0.765		0.3	20.0
bis(2-Chloroethoxy)methane	0.423	0.430		-1.6	20.0
1,2,4-Trichlorobenzene	0.298	0.314		-5.4	20.0
Naphthalene	0.996	1.047		-5.1	20.0
4-Chloroaniline	0.414	0.412		0.5	20.0
Hexachlorobutadiene	0.190	0.226		-18.9	20.0
2-Methylnaphthalene	0.623	0.671		-7.7	20.0
Hexachlorocyclopentadiene	0.195	0.202	0.05	-3.6	20.0
2-Chloronaphthalene	1.064	1.108		-4.1	20.0
2-Nitroaniline	0.398	0.411		-3.3	20.0
Dimethylphthalate	1.446	1.508		-4.3	20.0
Acenaphthylene	1.717	1.744		-1.6	20.0
2,6-Dinitrotoluene	0.331	0.326		1.5	20.0

SEMIVOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 8270C

Instrument ID: BNAMS7 Calibration Date: 10/31/00 Time: 1607

Lab File ID: L3280 Init. Calib. Date(s): 10/27/00 10/27/00

Init. Calib. Times: 0914 1229

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
3-Nitroaniline	0.346	0.329		4.9	20.0
Acenaphthene	1.077	1.164		-8.1	20.0
Dibenzofuran	1.467	1.569		-7.0	20.0
2,4-Dinitrotoluene	0.462	0.467		-1.1	20.0
Diethylphthalate	1.634	1.791		-9.6	20.0
4-Chlorophenyl-phenylether	0.526	0.584		-11.0	20.0
Fluorene	1.205	1.337		-11.0	20.0
4-Nitroaniline	0.360	0.348		3.3	20.0
N-Nitrosodiphenylamine	0.472	0.524		-11.0	20.0
4-Bromophenyl-phenylether	0.195	0.207		-6.2	20.0
Hexachlorobenzene	0.232	0.242		-4.3	20.0
Phenanthrene	0.979	1.082		-10.5	20.0
Anthracene	0.988	1.077		-9.0	20.0
Carbazole	0.828	0.911		-10.0	20.0
Di-n-butylphthalate	1.558	1.824		-17.1	20.0
Fluoranthene	1.044	1.171		-12.2	20.0
Pyrene	1.059	1.041		1.7	20.0
Benzidine	0.186	0.208		-11.8	20.0
Butylbenzylphthalate	0.746	0.785		-5.2	20.0
3,3'-Dichlorobenzidine	0.347	0.399		-15.0	20.0
Benzo(a)anthracene	1.042	1.002		3.8	20.0
Chrysene	0.967	0.986		-2.0	20.0
bis(2-Ethylhexyl)phthalate	1.020	1.074		-5.3	20.0
Di-n-octylphthalate	2.153	2.556		-18.7	20.0
Benzo(b)fluoranthene	1.041	1.085		-4.2	20.0
Benzo(k)fluoranthene	1.241	1.347		-8.5	20.0
Benzo(a)pyrene	1.031	1.072		-4.0	20.0
Indeno(1,2,3-cd)pyrene	0.993	0.918		7.6	20.0
Dibenz(a,h)anthracene	0.982	0.992		-1.0	20.0
Benzo(g,h,i)perylene	1.010	0.986		2.4	20.0
Pyridine	1.007	0.834		17.2	20.0
Aniline	1.763	1.776		-0.7	20.0
Benzyl Alcohol	0.954	0.972		-1.9	20.0
1,2-Diphenylhydrazine	0.830	0.936		-12.8	20.0
Diphenyl	1.274	1.352		-6.1	20.0
Diphenyl Ether	0.676	0.728		-7.7	20.0
Acetophenone	1.961	2.303	0.01	-17.4	20.0

SEMIVOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 8270C

Instrument ID: BNAMS7 Calibration Date: 10/31/00 Time: 1607

Lab File ID: L3280 Init. Calib. Date(s): 10/27/00 10/27/00

Init. Calib. Times: 0914 1229

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
1,4-Dioxane	0.354	0.310	0.01	12.4	20.0
N,N-Dimethylaniline	1.948	2.171	0.01	-11.4	20.0
2,3,7,8-TCDD (Screen)	0.124	0.080	0.01	35.5	20.0
Benzaldehyde	0.753	0.698		7.3	20.0
Caprolactam	0.137	0.120		12.4	20.0
Atrazine	0.177	0.167		5.6	20.0
2-Fluorophenol (SUR)	1.129	1.058		6.3	20.0
Phenol-d5 (SUR)	1.642	1.623		1.2	20.0
2,4,6-Tribromophenol (SUR)	0.234	0.209		10.7	20.0
Nitrobenzene-d5 (SUR)	0.414	0.455		-9.9	20.0
2-Fluorobiphenyl (SUR)	1.087	1.181		-8.6	20.0
Terphenyl-d14 (SUR)	0.812	0.841		-3.6	20.0

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA
METHOD 8270C

Instrument ID: BNAMS7 Calibration Date(s): 11/01/00 11/01/00

Calibration Time(s): 1226 1544

LAB FILE ID: RRF5: L3310 RRF20: L3312 RRF50: L3308
RRF80: L3311 RRF120: L3309

COMPOUND	RRF5	RRF20	RRF50	RRF80	RRF120
Phenol	1.805	1.849	2.055	2.100	2.298
2-Chlorophenol	1.189	1.242	1.362	1.344	1.458
2-Methylphenol	1.215	1.199	1.300	1.300	1.402
4-Methylphenol	1.261	1.330	1.453	1.566	1.763
2-Nitrophenol	0.195	0.203	0.206	0.215	0.221
2,4-Dimethylphenol	0.304	0.303	0.314	0.314	0.341
2,4-Dichlorophenol	0.302	0.310	0.329	0.357	0.385
4-Chloro-3-methylphenol	0.426	0.437	0.456	0.450	0.440
2,4,6-Trichlorophenol	0.378	0.391	0.426	0.472	0.513
2,4,5-Trichlorophenol	0.397	0.427	0.470	0.513	0.533
2,4-Dinitrophenol	0.098	0.162	0.180	0.205	0.218
4-Nitrophenol	0.403	0.430	0.434	0.434	0.440
4,6-Dinitro-2-methylphenol	0.106	0.130	0.137	0.150	0.161
Pentachlorophenol	0.099	0.130	0.149	0.158	0.170
Benzoic Acid	0.021	0.066	0.119	0.136	0.166
N-Nitrosodimethylamine	0.676	0.740	0.828	0.816	0.805
bis(2-Chloroethyl)ether	1.812	1.409	1.494	1.441	1.531
1,3-Dichlorobenzene	1.416	1.389	1.448	1.470	1.572
1,4-Dichlorobenzene	1.447	1.452	1.487	1.532	1.634
1,2-Dichlorobenzene	1.401	1.356	1.418	1.452	1.615
bis(2-chloroisopropyl)ether	2.944	2.804	2.956	2.844	2.825
N-Nitroso-di-n-propylamine	1.512	1.469	1.507	1.508	1.541
Hexachloroethane	0.836	0.804	0.815	0.810	0.832
Nitrobenzene	0.753	0.826	0.828	0.843	0.853
Isophorone	1.053	1.008	1.040	1.011	1.012
bis(2-Chloroethoxy)methane	0.533	0.514	0.519	0.506	0.524
1,2,4-Trichlorobenzene	0.388	0.391	0.397	0.435	0.463
Naphthalene	1.037	1.031	1.058	1.103	1.177
4-Chloroaniline	0.443	0.435	0.428	0.428	0.441
Hexachlorobutadiene	0.333	0.313	0.311	0.334	0.336
2-Methylnaphthalene	0.659	0.662	0.684	0.734	0.799
Hexachlorocyclopentadiene	0.195	0.203	0.289	0.311	0.351
2-Chloronaphthalene	0.949	0.984	1.068	1.133	1.231
2-Nitroaniline	0.638	0.549	0.561	0.570	0.573
Dimethylphthalate	1.448	1.414	1.502	1.513	1.573
Acenaphthylene	1.554	1.561	1.711	1.773	1.892
2,6-Dinitrotoluene	0.302	0.315	0.342	0.351	0.356
3-Nitroaniline	0.274	0.284	0.316	0.301	0.321
Acenaphthene	0.984	0.985	1.107	1.183	1.277

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8270C

Instrument ID: BNAMS7 Calibration Date(s): 11/01/00 11/01/00

Calibration Time(s): 1226 1544

LAB FILE ID: RRF5: L3310 RRF20: L3312 RRF50: L3308
RRF80: L3311 RRF120: L3309

COMPOUND	RRF5	RRF20	RRF50	RRF80	RRF120
Dibenzofuran	1.448	1.446	1.570	1.717	1.877
2,4-Dinitrotoluene	0.401	0.450	0.479	0.504	0.522
Diethylphthalate	1.641	1.587	1.717	1.735	1.766
4-Chlorophenyl-phenylether	0.652	0.680	0.756	0.844	0.882
Fluorene	1.170	1.228	1.380	1.531	1.670
4-Nitroaniline	0.313	0.317	0.334	0.326	0.312
N-Nitrosodiphenylamine	0.374	0.410	0.453	0.461	0.500
4-Bromophenyl-phenylether	0.184	0.192	0.214	0.224	0.242
Hexachlorobenzene	0.236	0.237	0.255	0.273	0.294
Phenanthrene	0.808	0.862	0.942	0.990	1.111
Anthracene	0.822	0.897	0.940	1.010	1.128
Carbazole	0.749	0.782	0.776	0.814	0.863
Di-n-butylphthalate	1.310	1.341	1.418	1.401	1.515
Fluoranthene	0.955	1.054	1.137	1.209	1.302
Pyrene	0.987	0.992	1.037	1.041	1.098
Benzidine	0.260	0.422	0.213	0.219	0.093
Butylbenzylphthalate	0.662	0.605	0.614	0.593	0.597
3,3'-Dichlorobenzidine	0.298	0.399	0.440	0.401	0.347
Benzo(a)anthracene	1.330	0.997	1.048	1.058	1.122
Chrysene	0.898	0.934	1.027	1.041	1.127
bis(2-Ethylhexyl)phthalate	0.913	0.891	0.977	0.920	0.915
Di-n-octylphthalate	1.882	1.910	2.090	2.074	2.192
Benzo(b)fluoranthene	0.786	0.998	1.096	1.218	1.399
Benzo(k)fluoranthene	1.087	1.244	1.367	1.397	1.458
Benzo(a)pyrene	0.966	0.986	1.114	1.153	1.239
Indeno(1,2,3-cd)pyrene	0.935	0.836	0.953	1.004	1.189
Dibenz(a,h)anthracene	0.721	0.915	0.948	1.056	1.140
Benzo(g,h,i)perylene	0.870	0.899	0.992	1.007	1.079
Pyridine	1.141	1.276	1.238	1.249	1.308
Aniline	1.954	1.907	2.017	2.031	2.124
Benzyl Alcohol	0.881	0.861	0.949	0.937	1.031
1,2-Diphenylhydrazine	0.937	0.954	0.956	0.922	0.948
Diphenyl	1.188	1.179	1.288	1.416	1.580
Diphenyl Ether	0.690	0.690	0.742	0.808	0.874
Acetophenone	2.214	2.267	2.405	2.508	2.629
1,4-Dioxane	0.479	0.413	0.453	0.430	0.439
N,N-Dimethylaniline	1.776	1.874	2.002	2.047	2.184
2,3,7,8-TCDD (Screen)			0.094		
Benzaldehyde	1.378	1.286	1.134	0.784	0.595

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8270C

Instrument ID: BNAMS7 Calibration Date(s): 11/01/00 11/01/00

Calibration Time(s): 1226 1544

LAB FILE ID: RRF5: L3310 RRF20: L3312 RRF50: L3308
RRF80: L3311 RRF120: L3309

COMPOUND	RRF5	RRF20	RRF50	RRF80	RRF120
Caprolactam	0.132	0.142	0.140	0.156	0.162
Atrazine	0.208	0.193	0.169	0.154	0.155
2-Fluorophenol (SUR)	0.930	1.015	1.138	1.115	1.201
Phenol-d5 (SUR)	1.570	1.663	1.776	1.779	1.925
2,4,6-Tribromophenol (SUR)	0.235	0.240	0.259	0.306	0.326
Nitrobenzene-d5 (SUR)	0.587	0.605	0.614	0.622	0.641
2-Fluorobiphenyl (SUR)	1.106	1.122	1.262	1.400	1.531
Terphenyl-d14 (SUR)	0.780	0.805	0.872	0.893	0.950

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8270C

Instrument ID: BNAMS7 Calibration Date(s): 11/01/00 11/01/00

Calibration Time(s): 1226 1544

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Phenol	AVRG	2.02169117	9.9*
2-Chlorophenol	AVRG	1.31906866	8.0*
2-Methylphenol	AVRG	1.28328758	6.3*
4-Methylphenol	AVRG	1.47474166	13.5*
2-Nitrophenol	AVRG	0.20803081	4.8*
2,4-Dimethylphenol	AVRG	0.31511690	4.9*
2,4-Dichlorophenol	AVRG	0.33676646	10.2*
4-Chloro-3-methylphenol	AVRG	0.44195363	2.6*
2,4,6-Trichlorophenol	AVRG	0.43630011	12.9*
2,4,5-Trichlorophenol	AVRG	0.46796749	12.1*
2,4-Dinitrophenol	AVRG	0.17249529	27.2**
4-Nitrophenol	AVRG	0.42833613	3.4**
4,6-Dinitro-2-methylphenol	AVRG	0.13691405	15.4*
Pentachlorophenol	AVRG	0.14151846	19.5*
Benzoic Acid	AVRG	0.10166922	57.0*
N-Nitrosodimethylamine	AVRG	0.77317570	8.2*
bis(2-Chloroethyl)ether	AVRG	1.53755335	10.4*
1,3-Dichlorobenzene	AVRG	1.45909814	4.8*
1,4-Dichlorobenzene	AVRG	1.51039215	5.1*
1,2-Dichlorobenzene	AVRG	1.44868907	6.8*
bis(2-chloroisopropyl)ether	AVRG	2.87483144	2.4*
N-Nitroso-di-n-propylamine	AVRG	1.50738549	1.7**
Hexachloroethane	AVRG	0.81957316	1.7*
Nitrobenzene	AVRG	0.82045033	4.8*
Isophorone	AVRG	1.02504927	2.0*
bis(2-Chloroethoxy)methane	AVRG	0.51943122	2.0*
1,2,4-Trichlorobenzene	AVRG	0.41481015	7.9*
Naphthalene	AVRG	1.08113180	5.6*
4-Chloroaniline	AVRG	0.43520165	1.6*
Hexachlorobutadiene	AVRG	0.32567234	3.8*
2-Methylnaphthalene	AVRG	0.70774287	8.3*
Hexachlorocyclopentadiene	AVRG	0.26978104	25.4**
2-Chloronaphthalene	AVRG	1.07310357	10.6*
2-Nitroaniline	AVRG	0.57830754	6.0*
Dimethylphthalate	AVRG	1.48994487	4.1*
Acenaphthylene	AVRG	1.69819429	8.5*
2,6-Dinitrotoluene	AVRG	0.33315752	7.1*
3-Nitroaniline	AVRG	0.29915483	6.7*
Acenaphthene	AVRG	1.10714756	11.5*

* Compound with required maximum % RSD value.
** Compound with required minimum RRF value.

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8270C

Instrument ID: BNAMS7 Calibration Date(s): 11/01/00 11/01/00

Calibration Time(s): 1226 1544

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Dibenzofuran	AVRG	1.61157241	11.5*
2,4-Dinitrotoluene	AVRG	0.47132823	10.1*
Diethylphthalate	AVRG	1.68911081	4.3*
4-Chlorophenyl-phenylether	AVRG	0.76287347	13.1*
Fluorene	AVRG	1.39577446	14.9*
4-Nitroaniline	AVRG	0.32072765	2.9*
N-Nitrosodiphenylamine	AVRG	0.43943463	11.1*
4-Bromophenyl-phenylether	AVRG	0.21125729	11.2*
Hexachlorobenzene	AVRG	0.25921990	9.5*
Phenanthrene	AVRG	0.94280950	12.5*
Anthracene	AVRG	0.95964908	12.1*
Carbazole	AVRG	0.79699210	5.5*
Di-n-butylphthalate	AVRG	1.39684762	5.7*
Fluoranthene	AVRG	1.13143755	11.9*
Pyrene	AVRG	1.03091091	4.4*
Benzidine	AVRG	0.24152335	49.2*
Butylbenzylphthalate	AVRG	0.61401553	4.6*
3,3'-Dichlorobenzidine	AVRG	0.37687035	14.6*
Benzo(a)anthracene	AVRG	1.11132191	11.7*
Chrysene	AVRG	1.00523160	9.0*
bis(2-Ethylhexyl)phthalate	AVRG	0.92317792	3.4*
Di-n-octylphthalate	AVRG	2.02957840	6.4*
Benzo(b)fluoranthene	AVRG	1.09944956	21.0*
Benzo(k)fluoranthene	AVRG	1.31052588	11.2*
Benzo(a)pyrene	AVRG	1.09170270	10.5*
Indeno(1,2,3-cd)pyrene	AVRG	0.98369472	13.2*
Dibenz(a,h)anthracene	AVRG	0.95611354	16.6*
Benzo(g,h,i)perylene	AVRG	0.96941699	8.7*
Pyridine	AVRG	1.24266789	5.1*
Aniline	AVRG	2.00669195	4.1*
Benzyl Alcohol	AVRG	0.93191536	7.1*
1,2-Diphenylhydrazine	AVRG	0.94332138	1.5*
Diphenyl	AVRG	1.33017847	12.7*
Diphenyl Ether	AVRG	0.76099227	10.5*
Acetophenone	AVRG	2.40446296	7.1**
1,4-Dioxane	AVRG	0.44282619	5.7**
N,N-Dimethylaniline	AVRG	1.97700139	8.0**
2,3,7,8-TCDD (Screen)	AVRG	0.09355036	0.0**
Benzaldehyde	AVRG	1.03521470	32.3*

* Compound with required maximum % RSD value.
** Compound with required minimum RRF value.

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8270C

Instrument ID: BNAMS7 Calibration Date(s): 11/01/00 11/01/00

Calibration Time(s): 1226 1544

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Caprolactam	AVRG	0.14641903	8.5*
Atrazine	AVRG	0.17576676	13.7*
2-Fluorophenol (SUR)	AVRG	1.07997718	9.9*
Phenol-d5 (SUR)	AVRG	1.74260091	7.7*
2,4,6-Tribromophenol (SUR)	AVRG	0.27329391	14.9*
Nitrobenzene-d5 (SUR)	AVRG	0.61397825	3.3*
2-Fluorobiphenyl (SUR)	AVRG	1.28413907	14.2*
Terphenyl-d14 (SUR)	AVRG	0.85975226	8.0*

* Compound with required maximum % RSD value.
** Compound with required minimum RRF value.

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA
METHOD 8270C

Instrument ID: BNAMS7 Calibration Date(s): 11/09/00 11/09/00

Calibration Time(s): 1109 1425

LAB FILE ID: RRF5: L3447 RRF20: L3448 RRF50: L3445
RRF80: L3449 RRF120: L3446

COMPOUND	RRF5	RRF20	RRF50	RRF80	RRF120
Phenol	1.314	1.469	1.519	1.649	1.695
2-Chlorophenol	1.208	1.329	1.326	1.408	1.466
2-Methylphenol	0.976	1.113	1.142	1.188	1.232
4-Methylphenol	1.015	1.190	1.235	1.276	1.309
2-Nitrophenol	0.164	0.208	0.206	0.209	0.222
2,4-Dimethylphenol	0.291	0.297	0.305	0.306	0.302
2,4-Dichlorophenol	0.280	0.307	0.308	0.310	0.325
4-Chloro-3-methylphenol	0.296	0.325	0.331	0.322	0.323
2,4,6-Trichlorophenol	0.340	0.375	0.400	0.410	0.418
2,4,5-Trichlorophenol	0.380	0.426	0.441	0.443	0.455
2,4-Dinitrophenol	0.098	0.174	0.179	0.203	0.204
4-Nitrophenol	0.217	0.238	0.237	0.243	0.238
4,6-Dinitro-2-methylphenol	0.114	0.143	0.142	0.149	0.149
Pentachlorophenol	0.093	0.127	0.128	0.131	0.138
Benzoic Acid	0.024	0.111	0.126	0.112	0.105
N-Nitrosodimethylamine	0.359	0.445	0.470	0.554	0.556
bis(2-Chloroethyl)ether	1.166	1.129	1.133	1.125	1.148
1,3-Dichlorobenzene	1.392	1.461	1.480	1.482	1.525
1,4-Dichlorobenzene	1.417	1.510	1.522	1.538	1.565
1,2-Dichlorobenzene	1.424	1.425	1.434	1.455	1.505
bis(2-chloroisopropyl)ether	1.701	1.799	1.801	1.999	2.091
N-Nitroso-di-n-propylamine	0.760	0.810	0.864	0.914	0.930
Hexachloroethane	0.704	0.642	0.661	0.650	0.665
Nitrobenzene	0.366	0.419	0.444	0.455	0.471
Isophorone	0.572	0.558	0.557	0.544	0.560
bis(2-Chloroethoxy)methane	0.332	0.361	0.368	0.376	0.391
1,2,4-Trichlorobenzene	0.298	0.340	0.341	0.330	0.349
Naphthalene	0.988	1.029	1.046	1.040	1.082
4-Chloroaniline	0.368	0.398	0.392	0.394	0.392
Hexachlorobutadiene	0.193	0.198	0.206	0.200	0.206
2-Methylnaphthalene	0.642	0.696	0.699	0.689	0.722
Hexachlorocyclopentadiene	0.123	0.085	0.182	0.167	0.185
2-Chloronaphthalene	1.091	1.097	1.114	1.144	1.151
2-Nitroaniline	0.323	0.313	0.339	0.343	0.326
Dimethylphthalate	1.456	1.488	1.525	1.451	1.538
Acenaphthylene	1.771	1.680	1.708	1.698	1.745
2,6-Dinitrotoluene	0.284	0.338	0.344	0.352	0.351
3-Nitroaniline	0.304	0.335	0.347	0.342	0.353
Acenaphthene	1.141	1.152	1.180	1.189	1.203

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8270C

Instrument ID: BNAMS7 Calibration Date(s): 11/09/00 11/09/00

Calibration Time(s): 1109 1425

LAB FILE ID: RRF5: L3447 RRF20: L3448 RRF50: L3445
RRF80: L3449 RRF120: L3446

COMPOUND	RRF5	RRF20	RRF50	RRF80	RRF120
Dibenzofuran	1.541	1.562	1.610	1.622	1.624
2,4-Dinitrotoluene	0.468	0.475	0.481	0.490	0.481
Diethylphthalate	1.538	1.548	1.574	1.560	1.532
4-Chlorophenyl-phenylether	0.586	0.629	0.652	0.648	0.657
Fluorene	1.293	1.290	1.336	1.348	1.334
4-Nitroaniline	0.316	0.348	0.350	0.358	0.340
N-Nitrosodiphenylamine	0.450	0.525	0.509	0.501	0.506
4-Bromophenyl-phenylether	0.175	0.194	0.192	0.190	0.202
Hexachlorobenzene	0.221	0.219	0.220	0.221	0.231
Phenanthrene	0.942	0.987	0.981	0.973	1.004
Anthracene	0.969	0.962	0.980	0.959	1.015
Carbazole	0.905	0.926	0.891	0.842	0.853
Di-n-butylphthalate	1.389	1.442	1.476	1.454	1.433
Fluoranthene	1.081	1.117	1.128	1.111	1.162
Pyrene	1.143	1.185	1.170	1.182	1.191
Benzidine	0.350	0.513	0.290	0.134	0.076
Butylbenzylphthalate	0.674	0.728	0.732	0.726	0.720
3,3'-Dichlorobenzidine	0.357	0.418	0.411	0.402	0.338
Benzo(a)anthracene	1.156	1.047	1.076	1.083	1.118
Chrysene	0.972	1.102	1.079	1.084	1.157
bis(2-Ethylhexyl)phthalate	0.964	1.047	1.075	1.047	1.059
Di-n-octylphthalate	1.847	2.096	2.072	2.171	2.209
Benzo(b)fluoranthene	0.767	1.013	1.052	1.164	1.258
Benzo(k)fluoranthene	1.288	1.309	1.278	1.350	1.257
Benzo(a)pyrene	0.830	1.013	1.088	1.117	1.172
Indeno(1,2,3-cd)pyrene	0.973	0.882	0.999	1.071	1.169
Dibenz(a,h)anthracene	0.826	1.042	1.090	1.161	1.182
Benzo(g,h,i)perylene	0.889	1.030	1.102	1.129	1.178
Pyridine	0.691	0.778	0.841	0.940	0.846
Aniline	1.480	1.306	1.379	1.414	1.426
Benzyl Alcohol	0.582	0.761	0.736	0.792	0.849
1,2-Diphenylhydrazine	0.614	0.660	0.656	0.672	0.682
Diphenyl	1.374	1.420	1.433	1.441	1.482
Diphenyl Ether	0.743	0.752	0.767	0.773	0.786
Acetophenone	1.638	1.874	1.863	1.918	1.972
1,4-Dioxane	0.338	0.332	0.335	0.359	0.368
N,N-Dimethylaniline	1.721	1.719	1.913	1.915	1.854
2,3,7,8-TCDD (Screen)			0.138		
Benzaldehyde	0.733	0.790	0.546	0.442	0.292

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8270C

Instrument ID: BNAMS7 Calibration Date(s): 11/09/00 11/09/00

Calibration Time(s): 1109 1425

LAB FILE ID: RRF5: L3447 RRF20: L3448 RRF50: L3445
RRF80: L3449 RRF120: L3446

COMPOUND	RRF5	RRF20	RRF50	RRF80	RRF120
Caprolactam	0.118	0.123	0.123	0.112	0.117
Atrazine	0.215	0.179	0.176	0.125	0.135
2-Fluorophenol (SUR)	0.794	0.920	0.967	1.048	1.082
Phenol-d5 (SUR)	1.209	1.349	1.407	1.509	1.548
2,4,6-Tribromophenol (SUR)	0.192	0.218	0.224	0.231	0.234
Nitrobenzene-d5 (SUR)	0.295	0.349	0.343	0.355	0.370
2-Fluorobiphenyl (SUR)	1.182	1.264	1.294	1.298	1.318
Terphenyl-d14 (SUR)	0.869	0.943	0.940	0.975	0.996

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8270C

Instrument ID: BNAMS7 Calibration Date(s): 11/09/00 11/09/00

Calibration Time(s): 1109 1425

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Phenol	AVRG	1.52905041	9.9*
2-Chlorophenol	AVRG	1.34742089	7.2*
2-Methylphenol	AVRG	1.13015141	8.6*
4-Methylphenol	AVRG	1.20490487	9.6*
2-Nitrophenol	AVRG	0.20169287	11.0*
2,4-Dimethylphenol	AVRG	0.30021666	2.1*
2,4-Dichlorophenol	AVRG	0.30607850	5.3*
4-Chloro-3-methylphenol	AVRG	0.31959294	4.2*
2,4,6-Trichlorophenol	AVRG	0.38881504	8.2*
2,4,5-Trichlorophenol	AVRG	0.42906320	6.8*
2,4-Dinitrophenol	AVRG	0.17167684	25.3**
4-Nitrophenol	AVRG	0.23470578	4.3**
4,6-Dinitro-2-methylphenol	AVRG	0.13962813	10.4*
Pentachlorophenol	AVRG	0.12340739	14.3*
Benzoic Acid	AVRG	0.09592733	42.5*
N-Nitrosodimethylamine	AVRG	0.47678229	17.3*
bis(2-Chloroethyl)ether	AVRG	1.14025705	1.5*
1,3-Dichlorobenzene	AVRG	1.46794481	3.3*
1,4-Dichlorobenzene	AVRG	1.51050815	3.7*
1,2-Dichlorobenzene	AVRG	1.44849392	2.3*
bis(2-chloroisopropyl)ether	AVRG	1.87825736	8.6*
N-Nitroso-di-n-propylamine	AVRG	0.85583900	8.3**
Hexachloroethane	AVRG	0.66446974	3.6*
Nitrobenzene	AVRG	0.43111997	9.5*
Isophorone	AVRG	0.55820072	1.7*
bis(2-Chloroethoxy)methane	AVRG	0.36553249	6.0*
1,2,4-Trichlorobenzene	AVRG	0.33159169	6.0*
Naphthalene	AVRG	1.03692703	3.2*
4-Chloroaniline	AVRG	0.38856311	3.1*
Hexachlorobutadiene	AVRG	0.20044085	2.7*
2-Methylnaphthalene	AVRG	0.68970390	4.3*
Hexachlorocyclopentadiene	AVRG	0.14844669	29.1**
2-Chloronaphthalene	AVRG	1.11948051	2.4*
2-Nitroaniline	AVRG	0.32892781	3.7*
Dimethylphthalate	AVRG	1.49142223	2.6*
Acenaphthylene	AVRG	1.72027677	2.2*
2,6-Dinitrotoluene	AVRG	0.33407614	8.4*
3-Nitroaniline	AVRG	0.33616012	5.6*
Acenaphthene	AVRG	1.17314842	2.2*

* Compound with required maximum % RSD value.
** Compound with required minimum RRF value.

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8270C

Instrument ID: BNAMS7 Calibration Date(s): 11/09/00 11/09/00

Calibration Time(s): 1109 1425

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Dibenzofuran	AVRG	1.59191474	2.4*
2,4-Dinitrotoluene	AVRG	0.47903340	1.7*
Diethylphthalate	AVRG	1.55039618	1.1*
4-Chlorophenyl-phenylether	AVRG	0.63457722	4.6*
Fluorene	AVRG	1.32040544	2.0*
4-Nitroaniline	AVRG	0.34227047	4.7*
N-Nitrosodiphenylamine	AVRG	0.49845701	5.7*
4-Bromophenyl-phenylether	AVRG	0.19059358	5.1*
Hexachlorobenzene	AVRG	0.22248658	2.3*
Phenanthrene	AVRG	0.97765760	2.3*
Anthracene	AVRG	0.97710306	2.3*
Carbazole	AVRG	0.88337015	4.0*
Di-n-butylphthalate	AVRG	1.43911505	2.2*
Fluoranthene	AVRG	1.11998154	2.6*
Pyrene	AVRG	1.17422273	1.6*
Benzidine	AVRG	0.27249820	64.2*
Butylbenzylphthalate	AVRG	0.71625908	3.3*
3,3'-Dichlorobenzidine	AVRG	0.38547598	9.2*
Benzo(a)anthracene	AVRG	1.09594470	3.8*
Chrysene	AVRG	1.07889767	6.2*
bis(2-Ethylhexyl)phthalate	AVRG	1.03819942	4.1*
Di-n-octylphthalate	AVRG	2.07902851	6.8*
Benzo(b)fluoranthene	AVRG	1.05075142	17.7*
Benzo(k)fluoranthene	AVRG	1.29645608	2.7*
Benzo(a)pyrene	AVRG	1.04422842	12.7*
Indeno(1,2,3-cd)pyrene	AVRG	1.01870743	10.6*
Dibenz(a,h)anthracene	AVRG	1.06046798	13.4*
Benzo(g,h,i)perylene	AVRG	1.06560749	10.5*
Pyridine	AVRG	0.81926782	11.2*
Aniline	AVRG	1.40097198	4.6*
Benzyl Alcohol	AVRG	0.74389826	13.4*
1,2-Diphenylhydrazine	AVRG	0.65681189	4.0*
Diphenyl	AVRG	1.43012072	2.7*
Diphenyl Ether	AVRG	0.76432015	2.2*
Acetophenone	AVRG	1.85317455	6.9**
1,4-Dioxane	AVRG	0.34628439	4.7**
N,N-Dimethylaniline	AVRG	1.82438241	5.4**
2,3,7,8-TCDD (Screen)	AVRG	0.13791662	0.0**
Benzaldehyde	AVRG	0.56049404	36.7*

* Compound with required maximum % RSD value.
** Compound with required minimum RRF value.

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8270C

Instrument ID: BNAMS7 Calibration Date(s): 11/09/00 11/09/00

Calibration Time(s): 1109 1425

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Caprolactam	AVRG	0.11861284	3.9*
Atrazine	AVRG	0.16585241	21.9*
2-Fluorophenol (SUR)	AVRG	0.96252464	11.8*
Phenol-d5 (SUR)	AVRG	1.40444249	9.6*
2,4,6-Tribromophenol (SUR)	AVRG	0.21997069	7.7*
Nitrobenzene-d5 (SUR)	AVRG	0.34245809	8.3*
2-Fluorobiphenyl (SUR)	AVRG	1.27093232	4.2*
Terphenyl-d14 (SUR)	AVRG	0.94463902	5.1*

* Compound with required maximum % RSD value.
** Compound with required minimum RRF value.

SEMIVOLATILE ORGANICS CONTINUING CALIBRATION CHECK
METHOD 8270C

Instrument ID: BNAMS7 Calibration Date: 11/15/00 Time: 0612

Lab File ID: L3528 Init. Calib. Date(s): 11/09/00 11/09/00

Init. Calib. Times: 1109 1425

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Phenol	1.529	1.535		-0.4	20.0
2-Chlorophenol	1.347	1.366		-1.4	20.0
2-Methylphenol	1.130	1.152		-1.9	20.0
4-Methylphenol	1.205	1.276		-5.9	20.0
2-Nitrophenol	0.202	0.215		-6.4	20.0
2,4-Dimethylphenol	0.300	0.322		-7.3	20.0
2,4-Dichlorophenol	0.306	0.316		-3.3	20.0
4-Chloro-3-methylphenol	0.319	0.346		-8.5	20.0
2,4,6-Trichlorophenol	0.389	0.388		0.2	20.0
2,4,5-Trichlorophenol	0.429	0.421		1.9	20.0
2,4-Dinitrophenol	0.172	0.154	0.05	10.5	20.0
4-Nitrophenol	0.235	0.242	0.05	-3.0	20.0
4,6-Dinitro-2-methylphenol	0.139	0.126		9.4	20.0
Pentachlorophenol	0.123	0.124		-0.8	20.0
Benzoic Acid	0.096	0.076		20.8	20.0
N-Nitrosodimethylamine	0.477	0.522		-9.4	20.0
bis(2-Chloroethyl)ether	1.140	1.152		-1.0	20.0
1,3-Dichlorobenzene	1.468	1.487		-1.3	20.0
1,4-Dichlorobenzene	1.510	1.533		-1.5	20.0
1,2-Dichlorobenzene	1.449	1.441		0.6	20.0
bis(2-chloroisopropyl)ether	1.878	1.955		-4.1	20.0
N-Nitroso-di-n-propylamine	0.856	0.920	0.05	-7.5	20.0
Hexachloroethane	0.664	0.668		-0.6	20.0
Nitrobenzene	0.431	0.476		-10.4	20.0
Isophorone	0.558	0.573		-2.7	20.0
bis(2-Chloroethoxy)methane	0.366	0.394		-7.6	20.0
1,2,4-Trichlorobenzene	0.332	0.344		-3.6	20.0
Naphthalene	1.037	1.094		-5.5	20.0
4-Chloroaniline	0.389	0.404		-3.8	20.0
Hexachlorobutadiene	0.201	0.202		-0.5	20.0
2-Methylnaphthalene	0.690	0.720		-4.3	20.0
Hexachlorocyclopentadiene	0.148	0.159	0.05	-7.4	20.0
2-Chloronaphthalene	1.119	1.127		-0.7	20.0
2-Nitroaniline	0.329	0.339		-3.0	20.0
Dimethylphthalate	1.492	1.515		-1.5	20.0
Acenaphthylene	1.720	1.727		-0.4	20.0
2,6-Dinitrotoluene	0.334	0.362		-8.4	20.0

SEMIVOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 8270C

Instrument ID: BNAMS7 Calibration Date: 11/15/00 Time: 0612

Lab File ID: L3528 Init. Calib. Date(s): 11/09/00 11/09/00

Init. Calib. Times: 1109 1425

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
3-Nitroaniline	0.336	0.353		-5.0	20.0
Acenaphthene	1.173	1.189		-1.4	20.0
Dibenzofuran	1.592	1.612		-1.2	20.0
2,4-Dinitrotoluene	0.479	0.492		-2.7	20.0
Diethylphthalate	1.550	1.602		-3.4	20.0
4-Chlorophenyl-phenylether	0.634	0.644		-1.6	20.0
Fluorene	1.320	1.348		-2.1	20.0
4-Nitroaniline	0.342	0.341		0.3	20.0
N-Nitrosodiphenylamine	0.498	0.498		0.0	20.0
4-Bromophenyl-phenylether	0.191	0.185		3.1	20.0
Hexachlorobenzene	0.222	0.206		7.2	20.0
Phenanthrene	0.977	0.969		0.8	20.0
Anthracene	0.977	0.956		2.1	20.0
Carbazole	0.883	0.856		3.0	20.0
Di-n-butylphthalate	1.439	1.489		-3.5	20.0
Fluoranthene	1.120	1.080		3.6	20.0
Pyrene	1.174	1.212		-3.2	20.0
Benzidine	0.273	0.173		36.6	20.0
Butylbenzylphthalate	0.716	0.748		-4.5	20.0
3,3'-Dichlorobenzidine	0.385	0.415		-7.8	20.0
Benzo(a)anthracene	1.096	1.098		-0.2	20.0
Chrysene	1.079	1.080		-0.1	20.0
bis(2-Ethylhexyl)phthalate	1.038	1.151		-10.9	20.0
Di-n-octylphthalate	2.079	2.305		-10.9	20.0
Benzo(b)fluoranthene	1.051	1.145		-8.9	20.0
Benzo(k)fluoranthene	1.296	1.280		1.2	20.0
Benzo(a)pyrene	1.044	1.118		-7.1	20.0
Indeno(1,2,3-cd)pyrene	1.019	0.973		4.5	20.0
Dibenz(a,h)anthracene	1.060	1.101		-3.9	20.0
Benzo(g,h,i)perylene	1.066	1.103		-3.5	20.0
Pyridine	0.819	0.809		1.2	20.0
Aniline	1.401	1.415		-1.0	20.0
Benzyl Alcohol	0.744	0.739		0.7	20.0
1,2-Diphenylhydrazine	0.657	0.682		-3.8	20.0
Diphenyl	1.430	1.444		-1.0	20.0
Diphenyl Ether	0.764	0.786		-2.9	20.0
Acetophenone	1.853	1.907	0.01	-2.9	20.0

SEMIVOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 8270C

Instrument ID: BNAMS7 Calibration Date: 11/15/00 Time: 0612

Lab File ID: L3528 Init. Calib. Date(s): 11/09/00 11/09/00

Init. Calib. Times: 1109 1425

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
1,4-Dioxane	0.346	0.382	0.01	-10.4	20.0
N,N-Dimethylaniline	1.824	1.923	0.01	-5.4	20.0
2,3,7,8-TCDD (Screen)	0.138	0.127	0.01	8.0	20.0
Benzaldehyde	0.561	0.459		18.2	20.0
Caprolactam	0.119	0.126		-5.9	20.0
Atrazine	0.166	0.160		3.6	20.0
2-Fluorophenol (SUR)	0.962	0.986		-2.5	20.0
Phenol-d5 (SUR)	1.404	1.429		-1.8	20.0
2,4,6-Tribromophenol (SUR)	0.220	0.206		6.4	20.0
Nitrobenzene-d5 (SUR)	0.342	0.364		-6.4	20.0
2-Fluorobiphenyl (SUR)	1.271	1.292		-1.6	20.0
Terphenyl-d14 (SUR)	0.945	0.971		-2.8	20.0

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA
METHOD 625

Instrument ID: BNAMS8 Calibration Date(s): 10/24/00 10/24/00

Calibration Time(s): 1351 1730

LAB FILE ID: RRF10: AA2381 RRF20: AA2379 RRF50: AA2377
RRF80: AA2380 RRF120: AA2378

COMPOUND	RRF10	RRF20	RRF50	RRF80	RRF120
Phenol	2.196	2.222	2.193	2.165	1.761
2-Chlorophenol	1.598	1.583	1.550	1.531	1.440
2-Methylphenol	1.588	1.566	1.479	1.503	1.325
4-Methylphenol	1.591	1.567	1.335	1.076	0.849
2-Nitrophenol	0.231	0.222	0.220	0.213	0.205
2,4-Dimethylphenol	0.340	0.327	0.321	0.300	0.279
2,4-Dichlorophenol	0.314	0.309	0.294	0.275	0.260
4-Chloro-3-methylphenol	0.362	0.345	0.345	0.337	0.308
2,4,6-Trichlorophenol	0.361	0.402	0.367	0.340	0.318
2,4,5-Trichlorophenol	0.401	0.410	0.395	0.392	0.356
2,4-Dinitrophenol	0.198	0.217	0.230	0.224	0.214
4-Nitrophenol	0.307	0.298	0.300	0.298	0.282
4,6-Dinitro-2-methylphenol	0.163	0.165	0.163	0.152	0.153
Pentachlorophenol	0.162	0.153	0.142	0.130	0.123
Benzoic Acid	0.175	0.220	0.194	0.258	0.209
N-Nitrosodimethylamine	0.776	0.823	0.877	0.912	0.898
bis(2-Chloroethyl)ether	1.947	1.824	1.762	1.695	1.567
1,3-Dichlorobenzene	1.664	1.622	1.511	1.417	1.262
1,4-Dichlorobenzene	1.724	1.702	1.568	1.419	1.230
1,2-Dichlorobenzene	1.678	1.551	1.502	1.385	1.166
bis(2-chloroisopropyl)ether	3.090	2.938	2.804	2.750	2.366
N-Nitroso-di-n-propylamine	1.159	1.091	0.983	0.952	0.880
Hexachloroethane	0.761	0.772	0.728	0.694	0.641
Nitrobenzene	0.555	0.532	0.469	0.456	0.417
Isophorone	0.836	0.839	0.803	0.788	0.757
bis(2-Chloroethoxy)methane	0.567	0.570	0.497	0.468	0.430
1,2,4-Trichlorobenzene	0.344	0.330	0.303	0.280	0.251
Naphthalene	1.128	1.116	0.962	0.872	0.749
4-Chloroaniline	0.451	0.469	0.440	0.422	0.379
Hexachlorobutadiene	0.172	0.169	0.156	0.146	0.135
2-Methylnaphthalene	0.714	0.680	0.616	0.545	0.475
Hexachlorocyclopentadiene	0.122	0.187	0.237	0.211	0.226
2-Chloronaphthalene	1.201	1.161	1.080	0.957	0.826
2-Nitroaniline	0.526	0.540	0.446	0.425	0.406
Dimethylphthalate	1.612	1.564	1.429	1.329	1.208
Acenaphthylene	1.927	1.903	1.727	1.536	1.315
2,6-Dinitrotoluene	0.411	0.413	0.386	0.368	0.331
3-Nitroaniline	0.414	0.444	0.436	0.432	0.407
Acenaphthene	1.232	1.197	1.056	0.903	0.788

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 625

Instrument ID: BNAMS8 Calibration Date(s): 10/24/00 10/24/00

Calibration Time(s): 1351 1730

LAB FILE ID: RRF10: AA2381 RRF20: AA2379 RRF50: AA2377
RRF80: AA2380 RRF120: AA2378

COMPOUND	RRF10	RRF20	RRF50	RRF80	RRF120
Dibenzofuran	1.757	1.701	1.530	1.311	1.085
2,4-Dinitrotoluene	0.554	0.549	0.536	0.497	0.435
Diethylphthalate	1.729	1.661	1.532	1.367	1.193
4-Chlorophenyl-phenylether	0.582	0.552	0.451	0.374	0.352
Fluorene	1.392	1.332	1.078	0.948	0.824
4-Nitroaniline	0.448	0.420	0.434	0.425	0.371
N-Nitrosodiphenylamine	0.570	0.525	0.490	0.423	0.384
4-Bromophenyl-phenylether	0.211	0.197	0.172	0.148	0.136
Hexachlorobenzene	0.250	0.232	0.214	0.185	0.176
Phenanthrene	1.170	1.067	0.927	0.790	0.706
Anthracene	1.142	1.075	0.934	0.780	0.714
Carbazole	1.046	0.935	0.918	0.777	0.721
Di-n-butylphthalate	1.789	1.670	1.501	1.286	1.128
Fluoranthene	1.138	1.058	0.956	0.802	0.747
Pyrene	1.477	1.368	1.248	1.218	1.136
Benzidine	0.335	0.313	0.225	0.160	0.111
Butylbenzylphthalate	1.026	1.002	0.909	0.896	0.838
3,3'-Dichlorobenzidine	0.447	0.414	0.337	0.325	0.295
Benzo(a)anthracene	1.233	1.201	1.127	1.099	1.054
Chrysene	1.173	1.104	1.023	0.977	0.928
bis(2-Ethylhexyl)phthalate	1.398	1.369	1.039	1.082	1.130
Di-n-octylphthalate	2.382	2.380	2.188	2.144	1.918
Benzo(b)fluoranthene	1.157	1.163	1.156	1.173	1.216
Benzo(k)fluoranthene	1.178	1.177	1.113	0.998	0.849
Benzo(a)pyrene	1.104	1.111	1.083	1.040	0.996
Indeno(1,2,3-cd)pyrene	1.001	1.032	1.143	1.168	1.119
Dibenz(a,h)anthracene	1.060	1.086	1.081	1.051	0.999
Benzo(g,h,i)perylene	1.078	1.102	1.117	1.074	1.054
Pyridine	1.161	1.283	1.423	1.453	1.454
Aniline	2.311	2.359	2.285	2.165	1.864
Benzyl Alcohol	1.170	1.160	1.115	1.113	0.986
1,2-Diphenylhydrazine	1.066	0.981	0.911	0.815	0.738
Diphenyl	1.540	1.521	1.311	1.127	0.938
Diphenyl Ether	0.798	0.804	0.720	0.620	0.553
Acetophenone	2.375	2.259	1.862	1.665	1.492
N,N-Dimethylaniline	2.167	2.094	1.665	1.539	1.245
1,4-Dioxane	0.556	0.533	0.534	0.569	0.562
2,3,7,8-TCDD (screen)			0.201		
Benzaldehyde	1.336	1.040	0.901	0.728	0.352

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 625

Instrument ID: BNAMS8

Calibration Date(s): 10/24/00 10/24/00

Calibration Time(s): 1351 1730

LAB FILE ID: RRF10: AA2381 RRF20: AA2379 RRF50: AA2377
RRF80: AA2380 RRF120: AA2378

COMPOUND	RRF10	RRF20	RRF50	RRF80	RRF120
Caprolactum	0.154	0.158	0.136	0.140	0.119
Atrazine	0.215	0.201	0.164	0.132	0.144
2-Fluorophenol (SUR)	1.338	1.339	1.334	1.394	1.308
Phenol-d5 (SUR)	1.935	1.940	1.956	1.945	1.763
2,4,6-Tribromophenol (SUR)	0.264	0.248	0.232	0.222	0.204
Nitrobenzene-d5 (SUR)	0.443	0.431	0.419	0.411	0.386
2-Fluorobiphenyl (SUR)	1.321	1.291	1.110	1.002	0.893
Terphenyl-d14 (SUR)	1.113	1.025	0.841	0.843	0.891

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 625

Instrument ID: BNAMS8 Calibration Date(s): 10/24/00 10/24/00

Calibration Time(s): 1351 1730

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Phenol	AVRG	2.10756539	9.2*
2-Chlorophenol	AVRG	1.54036140	4.0*
2-Methylphenol	AVRG	1.49228119	6.9*
4-Methylphenol	AVRG	1.28377065	24.9*
2-Nitrophenol	AVRG	0.21802551	4.5*
2,4-Dimethylphenol	AVRG	0.31342021	7.7*
2,4-Dichlorophenol	AVRG	0.29031764	7.8*
4-Chloro-3-methylphenol	AVRG	0.33954105	5.9*
2,4,6-Trichlorophenol	AVRG	0.35753926	8.7*
2,4,5-Trichlorophenol	AVRG	0.39070689	5.3*
2,4-Dinitrophenol	AVRG	0.21669432	5.7**
4-Nitrophenol	AVRG	0.29684493	3.1**
4,6-Dinitro-2-methylphenol	AVRG	0.15936954	3.9*
Pentachlorophenol	AVRG	0.14194635	11.3*
Benzoic Acid	AVRG	0.21135348	14.7*
N-Nitrosodimethylamine	AVRG	0.85722804	6.6**
bis(2-Chloroethyl)ether	AVRG	1.75912624	8.1*
1,3-Dichlorobenzene	AVRG	1.49533712	10.8*
1,4-Dichlorobenzene	AVRG	1.52876542	13.5*
1,2-Dichlorobenzene	AVRG	1.45654875	13.3*
bis(2-chloroisopropyl)ether	AVRG	2.78958558	9.7*
N-Nitroso-di-n-propylamine	AVRG	1.01288968	11.0**
Hexachloroethane	AVRG	0.71919369	7.4*
Nitrobenzene	AVRG	0.48555178	11.7*
Isophorone	AVRG	0.80460491	4.3*
bis(2-Chloroethoxy)methane	AVRG	0.50626837	12.2*
1,2,4-Trichlorobenzene	AVRG	0.30155231	12.4*
Naphthalene	AVRG	0.96577973	16.8*
4-Chloroaniline	AVRG	0.43235772	7.9*
Hexachlorobutadiene	AVRG	0.15579732	10.0*
2-Methylnaphthalene	AVRG	0.60601503	16.1*
Hexachlorocyclopentadiene	AVRG	0.19674155	23.1**
2-Chloronaphthalene	AVRG	1.04504076	14.7*
2-Nitroaniline	AVRG	0.46885758	13.0*
Dimethylphthalate	AVRG	1.42833224	11.6*
Acenaphthylene	AVRG	1.68158057	15.4*
2,6-Dinitrotoluene	AVRG	0.38214164	8.9*
3-Nitroaniline	AVRG	0.42651315	3.6*
Acenaphthene	AVRG	1.03519643	18.3*

* Compound with required maximum % RSD value.
** Compound with required minimum RRF value.

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 625

Instrument ID: BNAMS8 Calibration Date(s): 10/24/00 10/24/00

Calibration Time(s): 1351 1730

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Dibenzofuran	AVRG	1.47691872	18.9*
2,4-Dinitrotoluene	AVRG	0.51433411	9.7*
Diethylphthalate	AVRG	1.49660977	14.6*
4-Chlorophenyl-phenylether	AVRG	0.46230173	22.3*
Fluorene	AVRG	1.11493045	21.9*
4-Nitroaniline	AVRG	0.41964087	6.9*
N-Nitrosodiphenylamine	AVRG	0.47865528	15.7*
4-Bromophenyl-phenylether	AVRG	0.17305619	18.3*
Hexachlorobenzene	AVRG	0.21147721	14.8*
Phenanthrene	AVRG	0.93196957	20.5*
Anthracene	AVRG	0.92887717	19.8*
Carbazole	AVRG	0.87976269	14.8*
Di-n-butylphthalate	AVRG	1.47489076	18.4*
Fluoranthene	AVRG	0.94024456	17.6*
Pyrene	AVRG	1.28916868	10.4*
Benzidine	AVRG	0.22889910	42.0*
Butylbenzylphthalate	AVRG	0.93424673	8.4*
3,3'-Dichlorobenzidine	AVRG	0.36368924	17.6*
Benzo(a)anthracene	AVRG	1.14271863	6.4*
Chrysene	AVRG	1.04093817	9.4*
bis(2-Ethylhexyl)phthalate	AVRG	1.20371496	13.9*
Di-n-octylphthalate	AVRG	2.20228696	8.7*
Benzo(b)fluoranthene	AVRG	1.17301645	2.1*
Benzo(k)fluoranthene	AVRG	1.06316145	13.2*
Benzo(a)pyrene	AVRG	1.06668965	4.5*
Indeno(1,2,3-cd)pyrene	AVRG	1.09276293	6.6*
Dibenz(a,h)anthracene	AVRG	1.05529134	3.3*
Benzo(g,h,i)perylene	AVRG	1.08501334	2.3*
Pyridine	AVRG	1.35481285	9.6*
Aniline	AVRG	2.19684784	9.1*
Benzyl Alcohol	AVRG	1.10885795	6.6*
1,2-Diphenylhydrazine	AVRG	0.90233012	14.4*
Diphenyl	AVRG	1.28753798	20.0**
Diphenyl Ether	AVRG	0.69878656	15.8**
Acetophenone	AVRG	1.93060768	19.6**
N,N-Dimethylaniline	AVRG	1.74177500	22.2**
1,4-Dioxane	AVRG	0.55084402	3.0**
2,3,7,8-TCDD (screen)	AVRG	0.20134488	0.0*
Benzaldehyde	AVRG	0.87143735	42.0*

* Compound with required maximum % RSD value.
** Compound with required minimum RRF value.

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 625

Instrument ID: BNAMS8 Calibration Date(s): 10/24/00 10/24/00

Calibration Time(s): 1351 1730

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Caprolactum	AVRG	0.14143618	10.8*
Atrazine	AVRG	0.17113921	20.9*
2-Fluorophenol (SUR)	AVRG	1.34263821	2.3*
Phenol-d5 (SUR)	AVRG	1.90773925	4.3*
2,4,6-Tribromophenol (SUR)	AVRG	0.23412208	9.8*
Nitrobenzene-d5 (SUR)	AVRG	0.41820062	5.1*
2-Fluorobiphenyl (SUR)	AVRG	1.12340407	16.3*
Terphenyl-d14 (SUR)	AVRG	0.94271780	12.9*

* Compound with required maximum % RSD value.
** Compound with required minimum RRF value.

SEMIVOLATILE ORGANICS CONTINUING CALIBRATION CHECK
METHOD 625

Instrument ID: BNAMS8 Calibration Date: 10/30/00 Time: 0925

Lab File ID: AA2495 Init. Calib. Date(s): 10/24/00 10/24/00

Init. Calib. Times: 1351 1730

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Phenol	2.107	2.198		-4.3	20.0
2-Chlorophenol	1.540	1.505		2.3	20.0
2-Methylphenol	1.492	1.476		1.1	
4-Methylphenol	1.284	1.422		-10.7	
2-Nitrophenol	0.218	0.220		-0.9	20.0
2,4-Dimethylphenol	0.313	0.322		-2.9	20.0
2,4-Dichlorophenol	0.290	0.291		-0.3	20.0
4-Chloro-3-methylphenol	0.339	0.361		-6.5	20.0
2,4,6-Trichlorophenol	0.358	0.347		3.1	20.0
2,4,5-Trichlorophenol	0.391	0.373		4.6	
2,4-Dinitrophenol	0.217	0.206	0.05	5.1	20.0
4-Nitrophenol	0.297	0.297	0.05	0.0	20.0
4,6-Dinitro-2-methylphenol	0.159	0.163		-2.5	20.0
Pentachlorophenol	0.142	0.144		-1.4	20.0
Benzoic Acid	0.211	0.174		17.5	
N-Nitrosodimethylamine	0.857	0.783	0.01	8.6	20.0
bis(2-Chloroethyl)ether	1.759	1.799		-2.3	20.0
1,3-Dichlorobenzene	1.495	1.570		-5.0	20.0
1,4-Dichlorobenzene	1.529	1.603		-4.8	20.0
1,2-Dichlorobenzene	1.456	1.521		-4.5	20.0
bis(2-chloroisopropyl)ether	2.790	2.958		-6.0	20.0
N-Nitroso-di-n-propylamine	1.013	1.066	0.5	-5.2	20.0
Hexachloroethane	0.719	0.743		-3.3	20.0
Nitrobenzene	0.486	0.524		-7.8	20.0
Isophorone	0.805	0.836		-3.8	20.0
bis(2-Chloroethoxy)methane	0.506	0.544		-7.5	20.0
1,2,4-Trichlorobenzene	0.302	0.306		-1.3	20.0
Naphthalene	0.965	1.025		-6.2	20.0
4-Chloroaniline	0.432	0.457		-5.8	
Hexachlorobutadiene	0.156	0.160		-2.6	20.0
2-Methylnaphthalene	0.606	0.653		-7.8	
Hexachlorocyclopentadiene	0.197	0.219	0.05	-11.2	20.0
2-Chloronaphthalene	1.045	1.032		1.2	20.0
2-Nitroaniline	0.469	0.415		11.5	
Dimethylphthalate	1.428	1.415		0.9	20.0
Acenaphthylene	1.682	1.738		-3.3	20.0
2,6-Dinitrotoluene	0.382	0.382		0.0	20.0

SEMIVOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 625

Instrument ID: BNAMS8 Calibration Date: 10/30/00 Time: 0925

Lab File ID: AA2495 Init. Calib. Date(s): 10/24/00 10/24/00

Init. Calib. Times: 1351 1730

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
3-Nitroaniline	0.427	0.406		4.9	
Acenaphthene	1.035	1.087		-5.0	20.0
Dibenzofuran	1.477	1.539		-4.2	
2,4-Dinitrotoluene	0.514	0.512		0.4	20.0
Diethylphthalate	1.496	1.546		-3.3	20.0
4-Chlorophenyl-phenylether	0.462	0.468		-1.3	20.0
Fluorene	1.115	1.164		-4.4	20.0
4-Nitroaniline	0.420	0.403		4.0	
N-Nitrosodiphenylamine	0.478	0.504		-5.4	20.0
4-Bromophenyl-phenylether	0.173	0.176		-1.7	20.0
Hexachlorobenzene	0.211	0.218		-3.3	20.0
Phenanthrene	0.932	0.987		-5.9	20.0
Anthracene	0.929	0.994		-7.0	20.0
Carbazole	0.879	0.883		-0.4	
Di-n-butylphthalate	1.475	1.554		-5.4	20.0
Fluoranthene	0.940	1.001		-6.5	20.0
Pyrene	1.289	1.290		-0.1	20.0
Benzidine	0.229	0.266		-16.2	
Butylbenzylphthalate	0.934	0.946		-1.3	20.0
3,3'-Dichlorobenzidine	0.364	0.319		12.4	20.0
Benzo(a)anthracene	1.143	1.117		2.3	20.0
Chrysene	1.041	1.034		0.7	20.0
bis(2-Ethylhexyl)phthalate	1.204	1.219		-1.2	20.0
Di-n-octylphthalate	2.202	2.349		-6.7	20.0
Benzo(b)fluoranthene	1.173	1.154		1.6	20.0
Benzo(k)fluoranthene	1.063	1.142		-7.4	20.0
Benzo(a)pyrene	1.067	1.057		0.9	20.0
Indeno(1,2,3-cd)pyrene	1.093	0.978		10.5	20.0
Dibenz(a,h)anthracene	1.055	0.956		9.4	20.0
Benzo(g,h,i)perylene	1.085	0.959		11.6	20.0
Pyridine	1.355	1.249		7.8	
Aniline	2.197	2.302		-4.8	
Benzyl Alcohol	1.109	1.093		1.4	
1,2-Diphenylhydrazine	0.902	0.944		-4.6	
Diphenyl	1.287	1.322	0.001	-2.7	20.0
Diphenyl Ether	0.699	0.686	0.001	1.8	20.0
Acetophenone	1.931	2.085	0.001	-8.0	20.0

SEMIVOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 625

Instrument ID: BNAMS8 Calibration Date: 10/30/00 Time: 0925

Lab File ID: AA2495 Init. Calib. Date(s): 10/24/00 10/24/00

Init. Calib. Times: 1351 1730

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
N,N-Dimethylaniline	1.742	1.861	0.001	-6.8	20.0
1,4-Dioxane	0.551	0.489	0.01	11.2	20.0
2,3,7,8-TCDD (screen)	0.201	0.164		18.4	20.0
Benzaldehyde	0.871	0.846		2.9	20.0
Caprolactum	0.141	0.153		-8.5	20.0
Atrazine	0.171	0.169		1.2	20.0
2-Fluorophenol (SUR)	1.343	1.282		4.5	
Phenol-d5 (SUR)	1.908	1.914		-0.3	
2,4,6-Tribromophenol (SUR)	0.234	0.225		3.8	20.0
Nitrobenzene-d5 (SUR)	0.418	0.430		-2.9	
2-Fluorobiphenyl (SUR)	1.123	1.117		0.5	
Terphenyl-d14 (SUR)	0.943	0.906		3.9	

SEMIVOLATILE ORGANICS CONTINUING CALIBRATION CHECK
METHOD 625

Instrument ID: BNAMS8 Calibration Date: 10/31/00 Time: 0946

Lab File ID: AA2512 Init. Calib. Date(s): 10/24/00 10/24/00

Init. Calib. Times: 1351 1730

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Phenol	2.107	2.222		-5.4	20.0
2-Chlorophenol	1.540	1.512		1.8	20.0
2-Methylphenol	1.492	1.496		-0.3	
4-Methylphenol	1.284	1.454		-13.2	
2-Nitrophenol	0.218	0.217		0.4	20.0
2,4-Dimethylphenol	0.313	0.312		0.3	20.0
2,4-Dichlorophenol	0.290	0.294		-1.4	20.0
4-Chloro-3-methylphenol	0.339	0.349		-2.9	20.0
2,4,6-Trichlorophenol	0.358	0.342		4.5	20.0
2,4,5-Trichlorophenol	0.391	0.379		3.1	
2,4-Dinitrophenol	0.217	0.201	0.05	7.4	20.0
4-Nitrophenol	0.297	0.300	0.05	-1.0	20.0
4,6-Dinitro-2-methylphenol	0.159	0.162		-1.9	20.0
Pentachlorophenol	0.142	0.141		0.7	20.0
Benzoic Acid	0.211	0.172		18.5	
N-Nitrosodimethylamine	0.857	0.742	0.01	13.4	20.0
bis(2-Chloroethyl)ether	1.759	1.748		0.6	20.0
1,3-Dichlorobenzene	1.495	1.514		-1.3	20.0
1,4-Dichlorobenzene	1.529	1.558		-1.9	20.0
1,2-Dichlorobenzene	1.456	1.529		-5.0	20.0
bis(2-chloroisopropyl)ether	2.790	3.010		-7.9	20.0
N-Nitroso-di-n-propylamine	1.013	1.061	0.5	-4.7	20.0
Hexachloroethane	0.719	0.737		-2.5	20.0
Nitrobenzene	0.486	0.519		-6.8	20.0
Isophorone	0.805	0.837		-4.0	20.0
bis(2-Chloroethoxy)methane	0.506	0.548		-8.3	20.0
1,2,4-Trichlorobenzene	0.302	0.311		-3.0	20.0
Naphthalene	0.965	1.007		-4.4	20.0
4-Chloroaniline	0.432	0.444		-2.8	
Hexachlorobutadiene	0.156	0.160		-2.6	20.0
2-Methylnaphthalene	0.606	0.658		-8.6	
Hexachlorocyclopentadiene	0.197	0.208	0.05	-5.6	20.0
2-Chloronaphthalene	1.045	1.051		-0.6	20.0
2-Nitroaniline	0.469	0.437		6.8	
Dimethylphthalate	1.428	1.409		1.3	20.0
Acenaphthylene	1.682	1.652		1.8	20.0
2,6-Dinitrotoluene	0.382	0.365		4.4	20.0

SEMIVOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 625

Instrument ID: BNAMS8 Calibration Date: 10/31/00 Time: 0946

Lab File ID: AA2512 Init. Calib. Date(s): 10/24/00 10/24/00

Init. Calib. Times: 1351 1730

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
3-Nitroaniline	0.427	0.416		2.6	
Acenaphthene	1.035	1.061		-2.5	20.0
Dibenzofuran	1.477	1.492		-1.0	
2,4-Dinitrotoluene	0.514	0.514		0.0	20.0
Diethylphthalate	1.496	1.569		-4.9	20.0
4-Chlorophenyl-phenylether	0.462	0.474		-2.6	20.0
Fluorene	1.115	1.171		-5.0	20.0
4-Nitroaniline	0.420	0.416		1.0	
N-Nitrosodiphenylamine	0.478	0.511		-6.9	20.0
4-Bromophenyl-phenylether	0.173	0.178		-2.9	20.0
Hexachlorobenzene	0.211	0.220		-4.3	20.0
Phenanthrene	0.932	0.984		-5.6	20.0
Anthracene	0.929	0.974		-4.8	20.0
Carbazole	0.879	0.903		-2.7	
Di-n-butylphthalate	1.475	1.546		-4.8	20.0
Fluoranthene	0.940	0.992		-5.5	20.0
Pyrene	1.289	1.317		-2.2	20.0
Benzidine	0.229	0.244		-6.6	
Butylbenzylphthalate	0.934	0.950		-1.7	20.0
3,3'-Dichlorobenzidine	0.364	0.352		3.3	20.0
Benzo(a)anthracene	1.143	1.138		0.4	20.0
Chrysene	1.041	1.030		1.0	20.0
bis(2-Ethylhexyl)phthalate	1.204	1.227		-1.9	20.0
Di-n-octylphthalate	2.202	2.442		-10.9	20.0
Benzo(b)fluoranthene	1.173	1.174		-0.1	20.0
Benzo(k)fluoranthene	1.063	1.210		-13.8	20.0
Benzo(a)pyrene	1.067	1.069		-0.2	20.0
Indeno(1,2,3-cd)pyrene	1.093	1.014		7.2	20.0
Dibenz(a,h)anthracene	1.055	0.979		7.2	20.0
Benzo(g,h,i)perylene	1.085	0.991		8.7	20.0
Pyridine	1.355	1.337		1.3	
Aniline	2.197	2.273		-3.4	
Benzyl Alcohol	1.109	1.113		-0.4	
1,2-Diphenylhydrazine	0.902	0.930		-3.1	
Diphenyl	1.287	1.288	0.001	-0.1	20.0
Diphenyl Ether	0.699	0.696	0.001	0.4	20.0
Acetophenone	1.931	2.076	0.001	-7.5	20.0

SEMIVOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 625

Instrument ID: BNAMS8 Calibration Date: 10/31/00 Time: 0946

Lab File ID: AA2512 Init. Calib. Date(s): 10/24/00 10/24/00

Init. Calib. Times: 1351 1730

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
N,N-Dimethylaniline	1.742	1.897	0.001	-8.9	20.0
1,4-Dioxane	0.551	0.526	0.01	4.5	20.0
2,3,7,8-TCDD (screen)	0.201	0.167		16.9	20.0
Benzaldehyde	0.871	0.900		-3.3	20.0
Caprolactum	0.141	0.149		-5.7	20.0
Atrazine	0.171	0.157		8.2	20.0
2-Fluorophenol (SUR)	1.343	1.299		3.3	
Phenol-d5 (SUR)	1.908	1.896		0.6	
2,4,6-Tribromophenol (SUR)	0.234	0.223		4.7	20.0
Nitrobenzene-d5 (SUR)	0.418	0.424		-1.4	
2-Fluorobiphenyl (SUR)	1.123	1.112		1.0	
Terphenyl-d14 (SUR)	0.943	0.917		2.8	

SEMI-VOLATILE SURROGATE RECOVERY
METHOD 8270C

Matrix: SOIL Level: LOW Lab Job No: F104

	LAB SAMPLE NO.	S1 #	S2 #	S3 #	OTHER	TOT OUT
01	SB302	103	103	108		0
02	237820MS	101	104	101		0
03	237820MSD	101	100	96		0
04	237816	106	107	107		0
05	237812	95	92	99		0
06	237818	90	98	104		0
07	237819	96	100	106		0
08	237829	76	91	78		0
09	237813	95	100	106		0
10	237825	93	90	114		0
11	237817	104	94	129		0
12	237826	92	97	123		0
13	237815	91	96	106		0
14	237839	89	95	106		0
15	237814	95	90	86		0
16	SB305	94	94	120		0
17	SB306	95	90	120		0
18	237820	96	94	118		0
19	237828	99	73	69		0
20	237827RE	61D	58D	63		0
21	237827	58D	68D	74		0
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30						

		QC LIMITS
S1	= Nitrobenzene-d5	(68-119)
S2	= 2-Fluorobiphenyl	(69-129)
S3	= Terphenyl-d14	(60-130)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

SEMI-VOLATILE SURROGATE RECOVERY
METHOD 625

Matrix: WATER Level: LOW Lab Job No: F104

	LAB SAMPLE NO.	S1 #	S2 #	S3 #	OTHER	TOT OUT
01	237821	82	86	92		0
02	237822	76	81	86		0
03	237824	84	87	91		0
04	237831	83	88	94		0
05	WB302	48*	50	55*		2
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		QC LIMITS
S1	= Nitrobenzene-d5	(59-117)
S2	= 2-Fluorobiphenyl	(44-120)
S3	= Terphenyl-d14	(56-122)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
METHOD 8270C

Matrix: SOIL

Level: LOW

Matrix Spike - Lab Sample No.: 237820RE

MS Sample from Lab Job No: F104

QA Batch: 6924

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	7000	0.00	7100	101	78-114
2-Chlorophenol	7000	0.00	6800	97	56-129
4-Chloro-3-methylphenol	7000	0.00	7500	107	73-126
4-Nitrophenol	7000	0.00	8100	116	65-139
Pentachlorophenol	7000	0.00	6500	93	52-133
1,4-Dichlorobenzene	3500	0.00	3000	86	59-95
N-Nitroso-di-n-propylami	3500	0.00	3400	97	47-145
1,2,4-Trichlorobenzene	3500	0.00	3200	91	62-111
Acenaphthene	3500	0.00	3700	106	74-110
2,4-Dinitrotoluene	3500	0.00	3700	106	61-126
Pyrene	3500	12	3600	103	64-116

Compound	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	7000	7200	103	1	40	78-114
2-Chlorophenol	7000	7000	100	3	40	56-129
4-Chloro-3-methylphenol	7000	7200	103	4	40	73-126
4-Nitrophenol	7000	7400	106	9	40	65-139
Pentachlorophenol	7000	6000	86	8	40	52-133
1,4-Dichlorobenzene	3500	3000	86	0	40	59-95
N-Nitroso-di-n-propylami	3500	3400	97	0	40	47-145
1,2,4-Trichlorobenzene	3500	3200	91	0	40	62-111
Acenaphthene	3500	3500	100	6	40	74-110
2,4-Dinitrotoluene	3500	3400	97	8	40	61-126
Pyrene	3500	3500	100	3	40	64-116

Column to be used to flag recovery and RPD values with an asterik
* Values outside of QC limits
RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS: _____

SEMI-VOLATILE SPIKE RECOVERY SUMMARY
METHOD 625

Matrix: WATER

Level: LOW

Matrix Spike - Lab Sample No.: 237758

MS Sample from Lab Job No: F093

QA Batch: 5891

Compound	MS % REC.	BS % REC.	LIMITS
Phenol	30	30	5-112
2-Chlorophenol	75	80	23-134
2-Nitrophenol	89	93	29-182
2,4-Dimethylphenol	81	84	32-119
2,4-Dichlorophenol	93	94	39-135
4-Chloro-3-methylphenol	94	93	22-147
2,4,6-Trichlorophenol	93	96	37-144
2,4-Dinitrophenol	83	62	0-191
4-Nitrophenol	37	30	0-132
4,6-Dinitro-2-methylphenol	97	92	0-181
Pentachlorophenol	94	90	14-176
bis(2-Chloroethyl)ether	81	90	12-158
1,3-Dichlorobenzene	66	60	0-172
1,4-Dichlorobenzene	68	63	20-124
1,2-Dichlorobenzene	69	65	32-129
bis(2-chloroisopropyl)ether	95	96	36-166
N-Nitroso-di-n-propylamine	93	100	0-230
Hexachloroethane	56	53	40-113
Nitrobenzene	92	92	35-180
Isophorone	86	85	21-196
bis(2-Chloroethoxy)methane	97	98	33-184
1,2,4-Trichlorobenzene	75	63	44-142
Naphthalene	88	80	21-133
Hexachlorobutadiene	58	50	24-116
2-Chloronaphthalene	86	75	60-118
Dimethylphthalate	94	100	0-112
Acenaphthylene	88	84	33-145
2,6-Dinitrotoluene	96	99	50-158
Acenaphthene	96	88	47-145
2,4-Dinitrotoluene	99	100	39-139

* Values outside of QC limits

SEMI-VOLATILE SPIKE RECOVERY SUMMARY
METHOD 625

Matrix: WATER

Level: LOW

Matrix Spike - Lab Sample No.: 237758

MS Sample from Lab Job No: F093

QA Batch: 5891

Compound	MS % REC.	BS % REC.	LIMITS
Diethylphthalate	100	110	0-114
4-Chlorophenyl-phenylether	98	95	25-158
Fluorene	100	96	59-121
4-Bromophenyl-phenylether	98	95	53-127
Hexachlorobenzene	99	97	0-152
Phenanthrene	100	100	54-120
Anthracene	100	100	27-133
Di-n-butylphthalate	110	100	1-118
Fluoranthene	110	99	26-137
Pyrene	100	100	52-115
Butylbenzylphthalate	100	100	0-152
3,3'-Dichlorobenzidine	97	100	0-262
Benzo(a)anthracene	97	97	33-143
Chrysene	99	96	17-168
bis(2-Ethylhexyl)phthalate	110	110	8-158
Di-n-octylphthalate	110	100	4-146
Benzo(b)fluoranthene	97	94	24-159
Benzo(k)fluoranthene	110	100	11-162
Benzo(a)pyrene	100	98	17-163
Indeno(1,2,3-cd)pyrene	91	88	0-171
Dibenz(a,h)anthracene	93	91	0-227
Benzo(g,h,i)perylene	94	92	0-219

* Values outside of QC limits

Spike Recovery: 0 out of 104 outside limits

COMMENTS: _____

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): L3248 Date Analyzed: 10/30/00

Instrument ID: BNAMS7 Time Analyzed: 1432

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (CRY) AREA	#	RT	#
	12 HOUR STD	408927		13.19		1722408		15.37		1831893		25.28	
	UPPER LIMIT	817854		13.69		3444816		15.87		3663786		25.78	
	LOWER LIMIT	204464		12.69		861204		14.87		915946		24.78	
	LABORATORY SAMPLE NO.												
01	SB302	312678		13.18		1272898		15.36		1301253		25.25	
02	237820MS	351544		13.18		1426179		15.37		1529993		25.27	
03	237820MSD	363077		13.18		1513447		15.36		1521891		25.27	
04	237816	322274		13.18		1327304		15.36		1409154		25.25	
05	237812	320707		13.18		1295621		15.36		1384323		25.25	
06	237818	335573		13.18		1353320		15.36		1407826		25.25	
07	237819	329356		13.18		1360162		15.35		1413175		25.25	
08	237829	391728		13.18		1589354		15.36		1540881		25.32	
09	237813	356459		13.19		1492568		15.37		1296384		25.26	
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (CRY) = Chrysene-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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): L3248 Date Analyzed: 10/30/00

Instrument ID: BNAMS7 Time Analyzed: 1432

		IS4(ANT) AREA #	RT #	IS5(PHN) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	1061365	18.31	1875959	20.79	1570878	29.07
	UPPER LIMIT	2122730	18.81	3751918	21.29	3141756	29.57
	LOWER LIMIT	530682	17.81	937980	20.29	785439	28.57
	LABORATORY SAMPLE NO.						
01	SB302	760513	18.29	1368983	20.78	1192220	29.03
02	237820MS	819675	18.30	1477004	20.79	1302649	29.04
03	237820MSD	865775	18.30	1549289	20.79	1312644	29.04
04	237816	770940	18.29	1441669	20.78	1267475	29.02
05	237812	775901	18.29	1433062	20.78	1240547	29.03
06	237818	790937	18.29	1393772	20.78	1219410	29.03
07	237819	786265	18.30	1416090	20.77	1219653	29.04
08	237829	887252	18.30	1567129	20.79	793275	29.24
09	237813	837090	18.30	1435903	20.78	834873	29.07
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IS4 (ANT) = Acenaphthene-d10
IS5 (PHN) = Phenanthrene-d10
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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): L3265 Date Analyzed: 10/31/00

Instrument ID: BNAMS7 Time Analyzed: 0609

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (CRY) AREA	#	RT	#
	12 HOUR STD	295420		13.18		1280414		15.36		1401852		25.27	
	UPPER LIMIT	590840		13.68		2560828		15.86		2803704		25.77	
	LOWER LIMIT	147710		12.68		640207		14.86		700926		24.77	
	LABORATORY SAMPLE NO.												
01	237825	320744		13.17		1300977		15.35		1084901		25.29	
02	237817	313465		13.18		1275504		15.35		994209		25.28	
03	237826	297476		13.18		1228856		15.35		1001717		25.29	
04	237815	304047		13.18		1263682		15.36		1157172		25.26	
05	237839	290376		13.18		1221837		15.36		1185875		25.26	
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (CRY) = Chrysene-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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): L3265 Date Analyzed: 10/31/00

Instrument ID: BNAMS7 Time Analyzed: 0609

		IS4 (ANT) AREA	#	RT	#	IS5 (PHN) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	776627		18.30		1366301		20.79		1183902		29.05	
	UPPER LIMIT	1553254		18.80		2732602		21.29		2367804		29.55	
	LOWER LIMIT	388314		17.80		683150		20.29		591951		28.55	
	LABORATORY SAMPLE NO.												
01	237825	737402		18.30		1235970		20.77		900084		29.19	
02	237817	730773		18.30		1287876		20.77		712207		29.18	
03	237826	691318		18.30		1235983		20.77		721266		29.19	
04	237815	724953		18.29		1287298		20.78		699372		29.05	
05	237839	729323		18.29		1272456		20.78		709475		29.05	
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IS4 (ANT) = Acenaphthene-d10
IS5 (PHN) = Phenanthrene-d10
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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): L3280 Date Analyzed: 10/31/00

Instrument ID: BNAMS7 Time Analyzed: 1607

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(CRY) AREA #	RT #
	12 HOUR STD	438942	13.18	1889603	15.36	2388802	25.26
	UPPER LIMIT	877884	13.68	3779206	15.86	4777604	25.76
	LOWER LIMIT	219471	12.68	944802	14.86	1194401	24.76
	LABORATORY SAMPLE NO.						
01	237814	352931	13.16	1444909	15.34	1719888	25.24
02							
03							
04							
05							
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (CRY) = Chrysene-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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): L3280 Date Analyzed: 10/31/00

Instrument ID: BNAMS7 Time Analyzed: 1607

		IS4(ANT) AREA	#	RT	#	IS5(PHN) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	12 HOUR STD	1205119		18.30		2113397		20.77		1884797		29.05	
	UPPER LIMIT	2410238		18.80		4226794		21.27		3769594		29.55	
	LOWER LIMIT	602560		17.80		1056698		20.27		942398		28.55	
	LABORATORY SAMPLE NO.												
01	237814	877436		18.29		1614841		20.77		1360485		29.02	
02													
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IS4 (ANT) = Acenaphthene-d10
IS5 (PHN) = Phenanthrene-d10
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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): L3308 Date Analyzed: 11/01/00

Instrument ID: BNAMS7 Time Analyzed: 1226

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (CRY) AREA #	RT #
	12 HOUR STD	262769	13.13	991482	15.32	1605980	25.21
	UPPER LIMIT	525538	13.63	1982964	15.82	3211960	25.71
	LOWER LIMIT	131384	12.63	495741	14.82	802990	24.71
	LABORATORY SAMPLE NO.						
01	SB305	217291	13.12	771898	15.30	1118908	25.18
02	SB306	187817	13.12	717710	15.29	1091550	25.18
03	237820	207493	13.11	743033	15.30	1099207	25.18
04	237828	216116	13.11	781191	15.30	1621434	25.22
05	237827RE	226775	13.11	800662	15.30	1284310	25.20
06							
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (CRY) = Chrysene-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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): L3308 Date Analyzed: 11/01/00

Instrument ID: BNAMS7 Time Analyzed: 1226

		IS4 (ANT) AREA	#	RT	#	IS5 (PHN) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	691318		18.25		1450326		20.73		1227655		28.95	
	UPPER LIMIT	1382636		18.75		2900652		21.23		2455310		29.45	
	LOWER LIMIT	345659		17.75		725163		20.23		613828		28.45	
	LABORATORY SAMPLE NO.												
01	SB305	540239		18.24		1149904		20.72		958962		28.90	
02	SB306	520171		18.24		1114152		20.72		899970		28.89	
03	237820	531311		18.24		1144488		20.72		932188		28.90	
04	237828	544412		18.24		1092180		20.72		1241317		29.03	
05	237827RE	564111		18.25		1253359		20.73		834733		28.94	
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IS4 (ANT) = Acenaphthene-d10
IS5 (PHN) = Phenanthrene-d10
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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): L3528 Date Analyzed: 11/15/00

Instrument ID: BNAMS7 Time Analyzed: 0612

		IS1(DCB) AREA	#	RT	#	IS2(NPT) AREA	#	RT	#	IS3(CRY) AREA	#	RT	#
	12 HOUR STD	542387		13.14		2076625		15.32		2278690		25.21	
	UPPER LIMIT	1084774		13.64		4153250		15.82		4557380		25.71	
	LOWER LIMIT	271194		12.64		1038312		14.82		1139345		24.71	
	LABORATORY SAMPLE NO.												
01	237827	488006		13.13		1868664		15.31		2049125		25.19	
02													
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (CRY) = Chrysene-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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): L3528 Date Analyzed: 11/15/00

Instrument ID: BNAMS7 Time Analyzed: 0612

	➢	IS4 (ANT) AREA #	RT #	IS5 (PHN) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1285548	18.25	2515470	20.74	1976621	28.93
	UPPER LIMIT	2571096	18.75	5030940	21.24	3953242	29.43
	LOWER LIMIT	642774	17.75	1257735	20.24	988310	28.43
	LABORATORY SAMPLE NO.						
01	237827	1170898	18.24	2245073	20.73	1641667	28.93
02							
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IS4 (ANT) = Acenaphthene-d10
IS5 (PHN) = Phenanthrene-d10
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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): AA2495 Date Analyzed: 10/30/00

Instrument ID: BNAMS8 Time Analyzed: 0925

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (CRY) AREA	#	RT	#
	12 HOUR STD	179135		13.14		716093		15.31		565940		25.17	
	UPPER LIMIT	358270		13.64		1432186		15.81		1131880		25.67	
	LOWER LIMIT	89568		12.64		358046		14.81		282970		24.67	
	LABORATORY SAMPLE NO.												
01	237821	143347		13.14		597862		15.30		548615		25.15	
02	237822	144479		13.14		585779		15.31		547405		25.14	
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (CRY) = Chrysene-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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): AA2495 Date Analyzed: 10/30/00

Instrument ID: BNAMS8 Time Analyzed: 0925

	➡	IS4 (ANT) AREA #	RT #	IS5 (PHN) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	430742	18.25	743272	20.72	573870	28.85
	UPPER LIMIT	861484	18.75	1486544	21.22	1147740	29.35
	LOWER LIMIT	215371	17.75	371636	20.22	286935	28.35
	LABORATORY SAMPLE NO.						
01	237821	368420	18.24	666535	20.71	527083	28.81
02	237822	352749	18.23	644426	20.71	489199	28.82
03							
04							
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22							

IS4 (ANT) = Acenaphthene-d10
IS5 (PHN) = Phenanthrene-d10
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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): AA2512 Date Analyzed: 10/31/00

Instrument ID: BNAMS8 Time Analyzed: 0946

		IS1(DCB) AREA	#	RT	#	IS2(NPT) AREA	#	RT	#	IS3(CRY) AREA	#	RT	#
	12 HOUR STD	197906		13.13		801143		15.31		623916		25.17	
	UPPER LIMIT	395812		13.63		1602286		15.81		1247832		25.67	
	LOWER LIMIT	98953		12.63		400572		14.81		311958		24.67	
	LABORATORY SAMPLE NO.												
01	237824	158683		13.14		652829		15.31		598837		25.14	
02	237831	151812		13.13		641025		15.31		577062		25.15	
03	WB302	224067		13.13		916003		15.31		874473		25.16	
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22													

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (CRY) = Chrysene-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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): AA2512 Date Analyzed: 10/31/00

Instrument ID: BNAMS8 Time Analyzed: 0946

		IS4(ANT) AREA	#	RT	#	IS5(PHN) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	12 HOUR STD	484452		18.25		839395		20.72		618305		28.84	
	UPPER LIMIT	968904		18.75		1678790		21.22		1236610		29.34	
	LOWER LIMIT	242226		17.75		419698		20.22		309152		28.34	
	LABORATORY SAMPLE NO.												
01	237824	389737		18.23		721249		20.71		547431		28.82	
02	237831	387093		18.24		722467		20.71		570975		28.82	
03	WB302	553104		18.25		1017946		20.72		848823		28.84	
04													
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22													

IS4 (ANT) = Acenaphthene-d10
IS5 (PHN) = Phenanthrene-d10
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.

SEVERN TRENT SERVICES

STL Edison

Job No. F104 - Envision Environmental, Inc. - Rexam DSI

VOLUME 3

GC Forms and Data

Metals Forms and Data

Client ID: **Field_Blank-1026**
Site: Rexam DSI

Lab Sample ID: **237831**
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 11/08/00
Date Analyzed: 11/08/00
GC Column: DB-608
Instrument ID: PESTGC6.i

Matrix: WATER
Sample Volume: 620 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Lab File ID: nr018577.d

ORGANOCHLORINE PCBs - GC/ECD
METHOD 608

Parameter	Analytical Results Units: ug/l	Method Detection Limit Units: ug/l
Aroclor-1016	ND	0.30
Aroclor-1221	ND	0.30
Aroclor-1232	ND	0.30
Aroclor-1242	ND	0.20
Aroclor-1248	ND	0.30
Aroclor-1254	ND	0.20
Aroclor-1260	ND	0.40
Aroclor-1262	ND	0.20
Aroclor-1268	ND	0.20

GC ORGANICS SURROGATE RECOVERY

Matrix: WATER Level: LOW Lab Job No: F104

	LABORATORY SAMPLE NO.	TCX %REC #	DCB %REC #	TOT OUT
01	WP313B	84	102	0
02	237831	88	83	0
03				
04				
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30				

		ADVISORY QC LIMITS
S1 (TCX)	= Tetrachloro-m-xylene	(28-115)
S2 (DCB)	= Decachlorobiphenyl	(18-152)

Column to be used to flag recovery values
* Values outside of advisory QC limits
D Surrogate diluted out
R Surrogate removed during H2SO4 cleanup procedure
** Not detected due to coeluting interference

GC ORGANICS MATRIX SPIKE/BLANK SPIKE RECOVERY SUMMARY
METHOD 608

Matrix: WATER

Level: LOW

Matrix Spike - Lab Sample No.: 238196

MS Sample from Lab Job No: F157

QA Batch: 7010

Compound	MS % REC.	BS % REC.	LIMITS
Aroclor-1016	100	102	50-114
Aroclor-1260	64	100	8-127

* Values outside of QC limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

GC ORGANICS METHOD BLANK SUMMARY

LAB SAMPLE NO.

WP313B

Matrix: WATER

Level: LOW

Instrument ID: PESTGC6

Date Analyzed: 11/08/00

Time Analyzed: 1921

Lab File ID: NR018575

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

	CLIENT ID.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	Field_Blank-	237831	nr018577.d	11/08/00
02				
03				
04				
05				
06				
07				
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COMMENTS:

Client ID: **WP313B**
Site:

Lab Sample ID: **WP313B**
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Extracted: 11/08/00
Date Analyzed: 11/08/00
GC Column: DB-608
Instrument ID: PESTGC6.i

Matrix: WATER
Sample Volume: 1000 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Lab File ID: nr018575.d

ORGANOCHLORINE PCBs - GC/ECD
METHOD 608

Parameter	Analytical Results Units: ug/l	Method Detection Limit Units: ug/l
Aroclor-1016	ND	0.30
Aroclor-1221	ND	0.30
Aroclor-1232	ND	0.30
Aroclor-1242	ND	0.20
Aroclor-1248	ND	0.30
Aroclor-1254	ND	0.20
Aroclor-1260	ND	0.40
Aroclor-1262	ND	0.20
Aroclor-1268	ND	0.20

Pesticide/PCB Retention Time Shift Summary

(for databatch - /chem1/PESTGC6.i/608/rear/Nov00/11-06-00/06nov00c.b,
as of 11/17/2000 10:32)

Instrument ID: PESTGC6.i Column ID: DB-608 Primary Column

Dates of Analysis: 11/08/00 to 11/08/00

Retention Time Shift Marker - Decachlorobiphenyl
QC Limit for RT Shift is 0.10 min

Absolute Surrogate RT From Cal. Standard Level 3: DCB = 27.100

Lab Sample ID	Data File	Injection Time	RT	DLT RT
WP313B	nr018575.d	08-NOV-2000 19:21	27.040	0.060
237831	nr018577.d	08-NOV-2000 20:26	27.053	0.047

D = Surrogate diluted out.

GC ORGANICS ANALYTICAL SEQUENCE SUMMARY

Instrument ID: PESTGC6.i Column ID: DB-608 Primary Column

	Lab Sample ID	Client Sample ID	Lab File ID	Sample Type	Inj. Date	Inj. Time
1	1016/1260-1000a		nr018394.d	CALIB_3	10/31/00	1603
2	1016/1260-200a		nr018395.d	CALIB_1	10/31/00	1635
3	1016/1260-500a		nr018396.d	CALIB_2	10/31/00	1708
4	1016/1260-1500a		nr018397.d	CALIB_4	10/31/00	1740
5	1016/1260-2500a		nr018398.d	CALIB_5	10/31/00	1812
6	PEST MIX-100a		nr018500.d	CALIB_3	11/06/00	1612
7	PEST MIX-10a		nr018508.d	CALIB_1	11/06/00	2100
8	PEST MIX-50a		nr018509.d	CALIB_2	11/06/00	2132
9	PEST MIX-250a		nr018510.d	CALIB_4	11/06/00	2205
10	PEST MIX-500a		nr018511.d	CALIB_5	11/06/00	2237
11	PESTMIX-100c		nr018573.d	CCALIB_3	11/08/00	0955
12	1016/1260-1000c		nr018574.d	CCALIB_3	11/08/00	1027
13	WP313B		nr018575.d	BLANK	11/08/00	1921
14	237831	Field_Blank-10	nr018577.d	SAMPLE	11/08/00	2026

GC ORGANICS INITIAL CALIBRATION SUMMARY

Instrument ID: PESTGC6.i Column ID: DB-608 Primary Column

Calibration Files:

/chem1/PESTGC6.i/608/rear/Oct00/10-31-00/31oct00a.b/nr018395.d
/chem1/PESTGC6.i/608/rear/Oct00/10-31-00/31oct00a.b/nr018396.d
/chem1/PESTGC6.i/608/rear/Oct00/10-31-00/31oct00a.b/nr018394.d
/chem1/PESTGC6.i/608/rear/Oct00/10-31-00/31oct00a.b/nr018397.d
/chem1/PESTGC6.i/608/rear/Oct00/10-31-00/31oct00a.b/nr018398.d

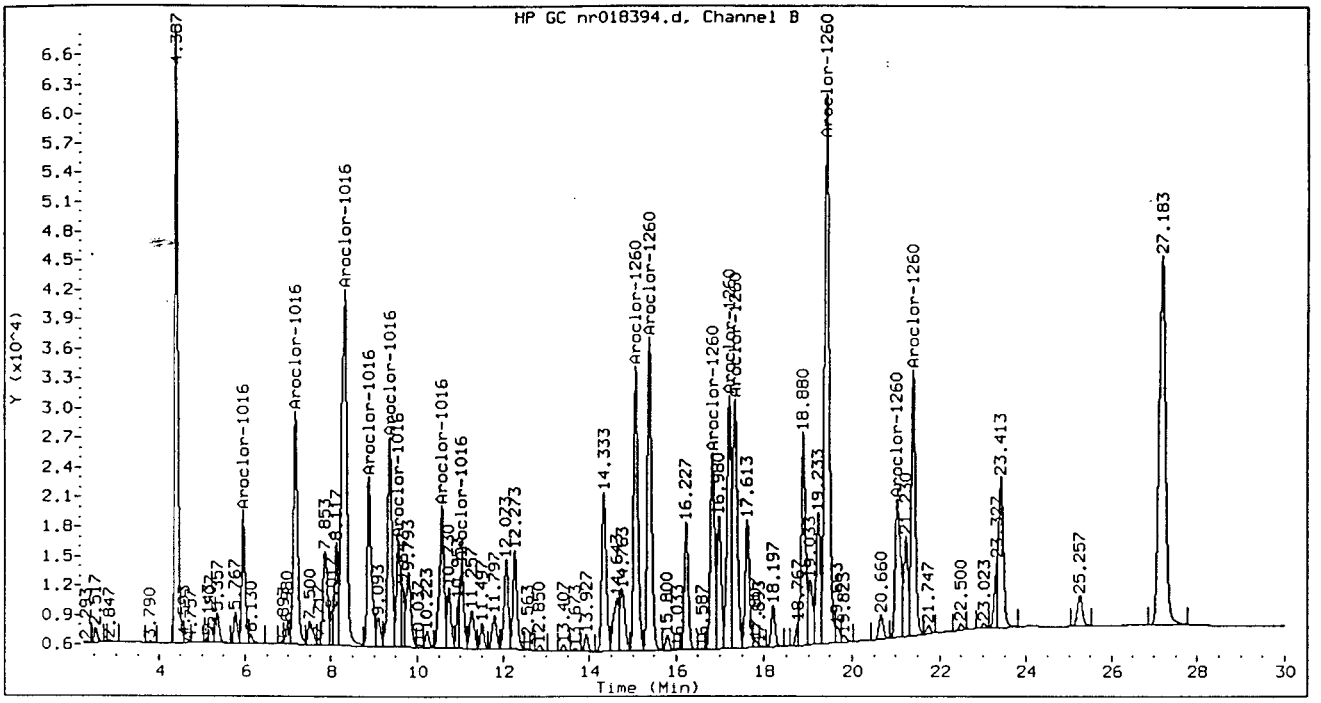
Compound		Level 1	Level 2	Level 3	Level 4	Level 5	Coefficients a0	a1	a2	%RSD or R^2
Aroclor-1016	1	83.42	78.84	74.67	73.74	69.87		76.11		6.80871
	2	184.12	172.87	162.04	159.89	150.14		165.81		7.86248
	3	331.12	324.85	313.83	310.66	299.01		315.89		3.96822
	4	122.06	118.52	115.83	112.61	107.03		115.21		4.98377
	5	166.76	154.34	147.41	146.72	139.94		151.03		6.72860
	6	75.39	70.55	67.69	64.42	61.71		67.95		7.84179
	7	116.43	109.93	105.42	104.39	100.51		107.34		5.67445
	8	60.59	57.46	58.33	57.16	60.66		58.84		2.86326
Aroclor-1260	1	218.81	199.87	199.09	193.62	186.23		199.52		6.05624
	2	234.47	215.90	214.38	210.03	200.59		215.07		5.75318
	3	147.89	139.59	135.37	133.09	127.74		136.74		5.52916
	4	178.68	172.34	174.11	174.46	172.92		174.50		1.42732
	5	180.84	178.56	176.82	176.41	172.44		177.02		1.75009
	6	404.39	404.48	413.65	421.93	419.46		412.78		1.98436
	7	116.63	117.18	120.35	122.92	122.68		119.95		2.47026
	8	172.62	174.80	182.59	188.05	189.92		181.60		4.25374

Comments:

* = %RSD exceeded maximum upper limit. Non-linear curve used for quantitation.

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC6.i/608/rear/Oct00/10-31-00/31oct00a.b/nr018394.d Page 1
Report Date 10/31/2000 19:50



Method : /chem1/PESTGC6.i/608/rear/Oct00/10-31-00/31oct00a.b/Nr608.m
Sample Info : 1016/1260-1000a
Lab ID : 1016/1260-1000a
Inj Date : 31-OCT-2000 16:03
Operator : MJM MB 10/31/00
Cpnd Sublist: AR16600

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_3

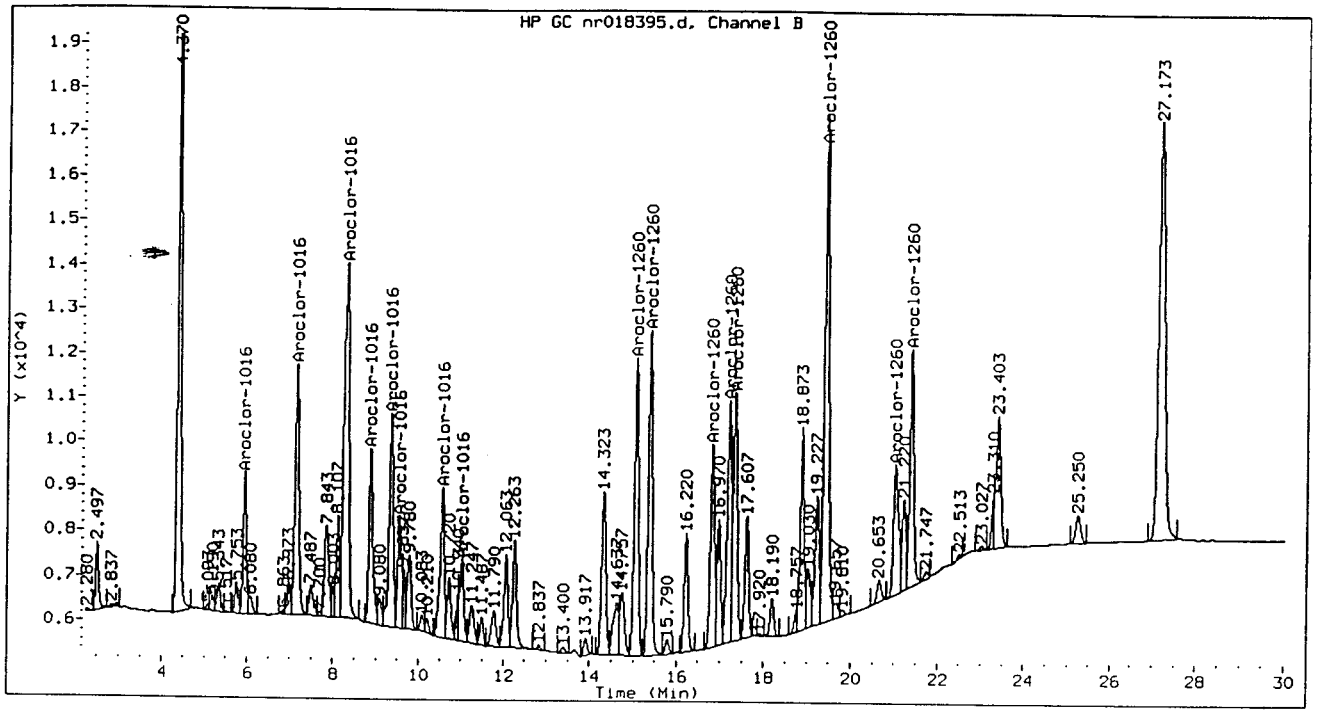
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
Aroclor-1016	(M)	5.947	5.947	0.000	74668	981.078	981.078
(2)		7.157	7.157	0.000	162038	977.239	977.239
(3)		8.310	8.310	0.000	313829	993.462	993.462
(4)		8.867	8.867	0.000	115831	1005.408	1005.408
(5)		9.347	9.347	0.000	147406	975.988	975.988
(6)		9.550	9.550	0.000	67688	996.139	996.139
(7)		10.567	10.567	0.000	105421	982.154	982.154
(8)		11.030	11.030	0.000	58325	991.236	991.236
Average of peak concentrations:							990.00
Aroclor-1260	(M)	15.070	15.070	0.000	199086	997.810	997.810
(2)		15.387	15.387	0.000	214381	996.781	996.781
(3)		16.827	16.827	0.000	135369	989.996	989.996
(4)		17.213	17.213	0.000	174113	997.778	997.778
(5)		17.337	17.337	0.000	176822	998.903	998.903
(6)		19.417	19.417	0.000	413652	1002.103	1002.103

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
(7)	21.030	21.030	0.000	120348	1003.301	1003.301
(8)	21.397	21.397	0.000	182594	1005.484	1005.484
Average of peak concentrations:						1000.00

COMMENTS:

M - Compound response manually integrated.

Data File: /chem1/PESTGC6.i/608/rear/Oct00/10-31-00/31oct00a.b/nr018395.d Page 1
Report Date 10/31/2000 19:50



Method : /chem1/PESTGC6.i/608/rear/Oct00/10-31-00/31oct00a.b/Nr608.m
Sample Info : 1016/1260-200a
Lab ID : 1016/1260-200a
Inj Date : 31-OCT-2000 16:35
Operator : MJM MJM 10/31/00
Cpnd Sublist: AR16600

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_1

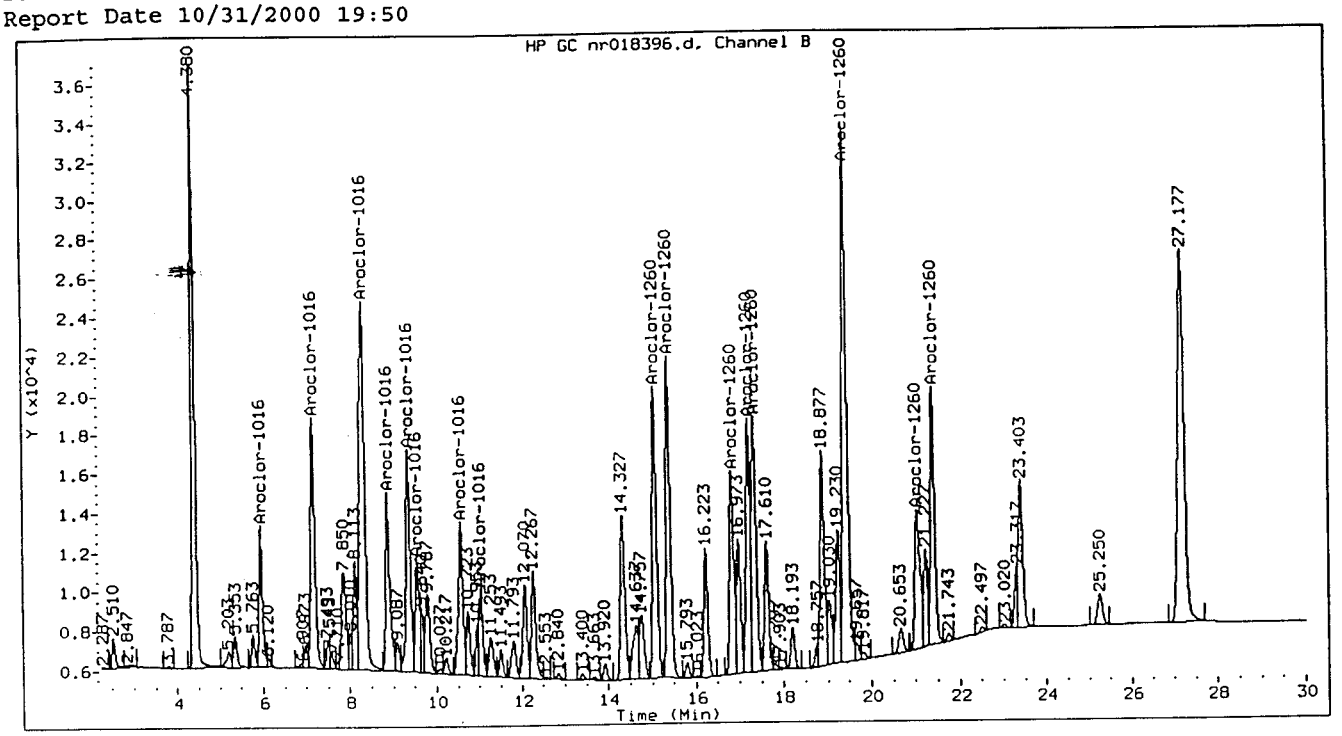
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
Aroclor-1016	(M)	5.933	5.947	0.013	16683	219.201	219.201
(2)		7.143	7.157	0.013	36824	222.083	222.083
(3)		8.297	8.310	0.013	66223	209.636	209.636
(4)		8.857	8.867	0.010	24411	211.886	211.886
(5)		9.340	9.347	0.007	33352	220.827	220.827
(6)		9.537	9.550	0.013	15077	221.883	221.883
(7)		10.557	10.567	0.010	23286	216.944	216.944
(8)		11.020	11.030	0.010	12119	205.963	205.963
Average of peak concentrations:							220.00
Aroclor-1260	(M)	15.063	15.070	0.007	43763	219.338	219.338
(2)		15.380	15.387	0.007	46893	218.033	218.033
(3)		16.820	16.827	0.007	29578	216.313	216.313
(4)		17.203	17.213	0.010	35736	204.790	204.790
(5)		17.333	17.337	0.003	36169	204.326	204.326
(6)		19.410	19.417	0.007	80878	195.933	195.933

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
(7)	21.023	21.030	0.007	23326	194.461	194.461
(8)	21.390	21.397	0.007	34524	190.112	190.112
Average of peak concentrations:						200.00

COMMENTS:

M - Compound response manually integrated.

Data File: /chem1/PESTGC6.i/608/rear/Oct00/10-31-00/31oct00a.b/nr018396.d Page 1
Report Date 10/31/2000 19:50



Method : /chem1/PESTGC6.i/608/rear/Oct00/10-31-00/31oct00a.b/Nr608.m
Sample Info : 1016/1260-500a
Lab ID : 1016/1260-500a
Inj Date : 31-OCT-2000 17:08
Operator : MJM AB 10/31/00
Cpnd Sublist: AR16600

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_2

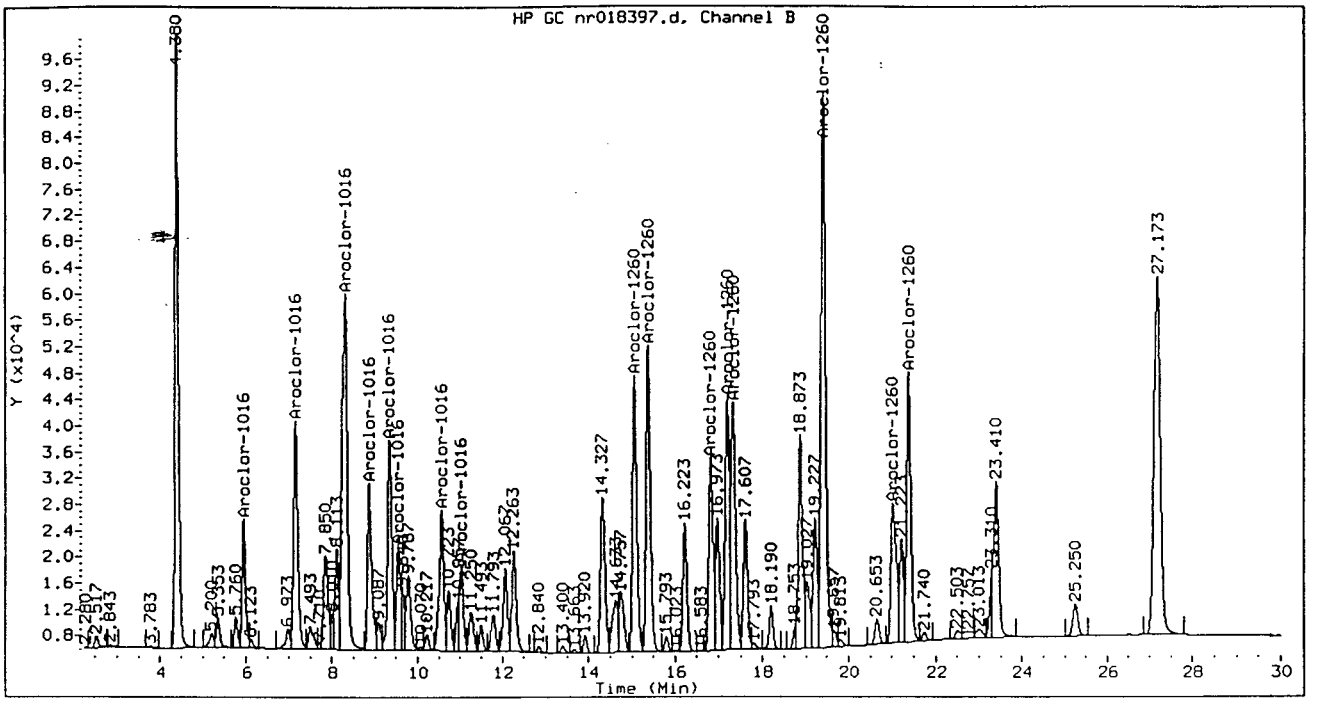
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
Aroclor-1016	(M)	5.943	5.947	0.003	39421	517.960	517.960
(2)		7.153	7.157	0.003	86435	521.283	521.283
(3)		8.307	8.310	0.003	162426	514.178	514.178
(4)		8.863	8.867	0.003	59259	514.366	514.366
(5)		9.343	9.347	0.003	77169	510.943	510.943
(6)		9.543	9.550	0.007	35277	519.159	519.159
(7)		10.560	10.567	0.007	54967	512.100	512.100
(8)		11.023	11.030	0.007	28732	488.302	488.302
Average of peak concentrations:							510.00
Aroclor-1260	(M)	15.067	15.070	0.003	99933	500.860	500.860
(2)		15.383	15.387	0.003	107950	501.922	501.922
(3)		16.823	16.827	0.003	69797	510.447	510.447
(4)		17.207	17.213	0.007	86168	493.798	493.798
(5)		17.333	17.337	0.003	89282	504.372	504.372
(6)		19.413	19.417	0.003	202242	489.946	489.946

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
(7)	21.027	21.030	0.003	58591	488.453	488.453
(8)	21.393	21.397	0.003	87402	481.294	481.294
Average of peak concentrations:						500.00

COMMENTS:

M - Compound response manually integrated.

Data File: /chem1/PESTGC6.i/608/rear/Oct00/10-31-00/31oct00a.b/nr018397.d Page 1
Report Date 10/31/2000 19:50



Method : /chem1/PESTGC6.i/608/rear/Oct00/10-31-00/31oct00a.b/Nr608.m
Sample Info : 1016/1260-1500a
Lab ID : 1016/1260-1500a
Inj Date : 31-OCT-2000 17:40
Operator : MJM MJM 10/31/00
Cpnd Sublist: AR16600

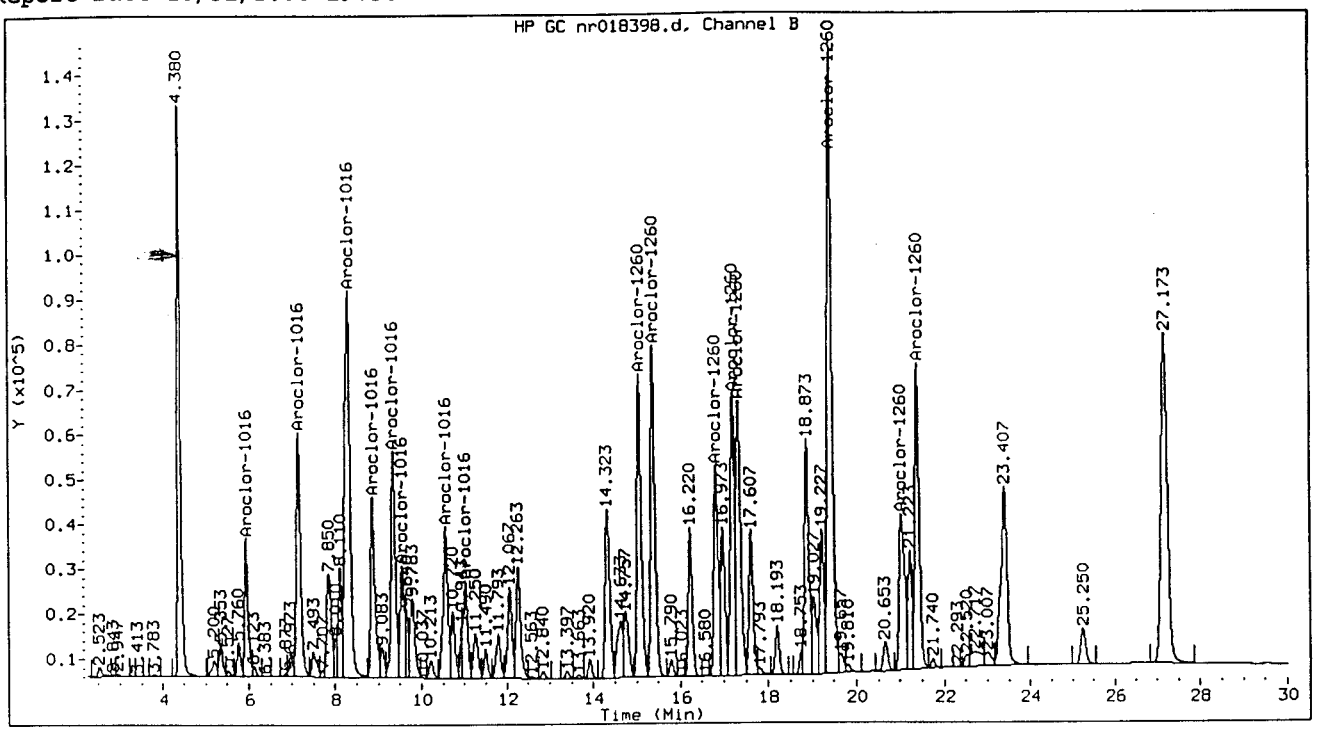
Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_4

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
Aroclor-1016	(M)	5.943	5.947	0.003	110615	1453.392	1453.392
(2)		7.153	7.157	0.003	239835	1446.427	1446.427
(3)		8.307	8.310	0.003	465997	1475.167	1475.167
(4)		8.860	8.867	0.007	168908	1466.114	1466.114
(5)		9.340	9.347	0.007	220080	1457.169	1457.169
(6)		9.543	9.550	0.007	96625	1421.994	1421.994
(7)		10.560	10.567	0.007	156579	1458.767	1458.767
(8)		11.023	11.030	0.007	85744	1457.223	1457.223
Average of peak concentrations:							1400.00
Aroclor-1260	(M)	15.063	15.070	0.007	290425	1455.597	1455.597
(2)		15.380	15.387	0.007	315047	1464.836	1464.836
(3)		16.820	16.827	0.007	199636	1460.000	1460.000
(4)		17.207	17.213	0.007	261687	1499.633	1499.633
(5)		17.333	17.337	0.003	264613	1494.852	1494.852
(6)		19.413	19.417	0.003	632897	1533.241	1533.241

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
(7)	21.027	21.030	0.003	184383	1537.139	1537.139
(8)	21.390	21.397	0.007	282075	1553.293	1553.293
Average of peak concentrations:						1500.00

COMMENTS:

M - Compound response manually integrated.



Method : /chem1/PESTGC6.i/608/rear/Oct00/10-31-00/31oct00a.b/Nr608.m
Sample Info : 1016/1260-2500a
Lab ID : 1016/1260-2500a
Inj Date : 31-OCT-2000 18:12
Operator : MJM AB 10/31/00
Cpnd Sublist: AR16600

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_5

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
Aroclor-1016	(M)	5.940	5.947	0.007	174681	2295.168	2295.168
(2)		7.150	7.157	0.007	375356	2263.743	2263.743
(3)		8.303	8.310	0.007	747529	2366.388	2366.388
(4)		8.860	8.867	0.007	267576	2322.548	2322.548
(5)		9.340	9.347	0.007	349847	2316.368	2316.368
(6)		9.540	9.550	0.010	154270	2270.335	2270.335
(7)		10.560	10.567	0.007	251279	2341.039	2341.039
(8)		11.023	11.030	0.007	151642	2577.162	2577.162
Average of peak concentrations:							2300.00
Aroclor-1260	(M)	15.063	15.070	0.007	465577	2333.452	2333.452
(2)		15.380	15.387	0.007	501472	2331.634	2331.634
(3)		16.817	16.827	0.010	319353	2335.528	2335.528
(4)		17.207	17.213	0.007	432291	2477.303	2477.303
(5)		17.330	17.337	0.007	431103	2435.388	2435.388
(6)		19.410	19.417	0.007	1048655	2540.446	2540.446

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
(7)	21.027	21.030	0.003	306696	2556.821	2556.821
(8)	21.390	21.397	0.007	474806	2614.598	2614.598
Average of peak concentrations:						2400.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS INITIAL CALIBRATION SUMMARY

Instrument ID: PESTGC6.i Column ID: DB-608 Primary Column

Calibration Files:

/chem1/PESTGC6.i/608/rear/Nov00/11-06-00/06nov00a.b/nr018508.d
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/chem1/PESTGC6.i/608/rear/Nov00/11-06-00/06nov00a.b/nr018500.d
/chem1/PESTGC6.i/608/rear/Nov00/11-06-00/06nov00a.b/nr018510.d
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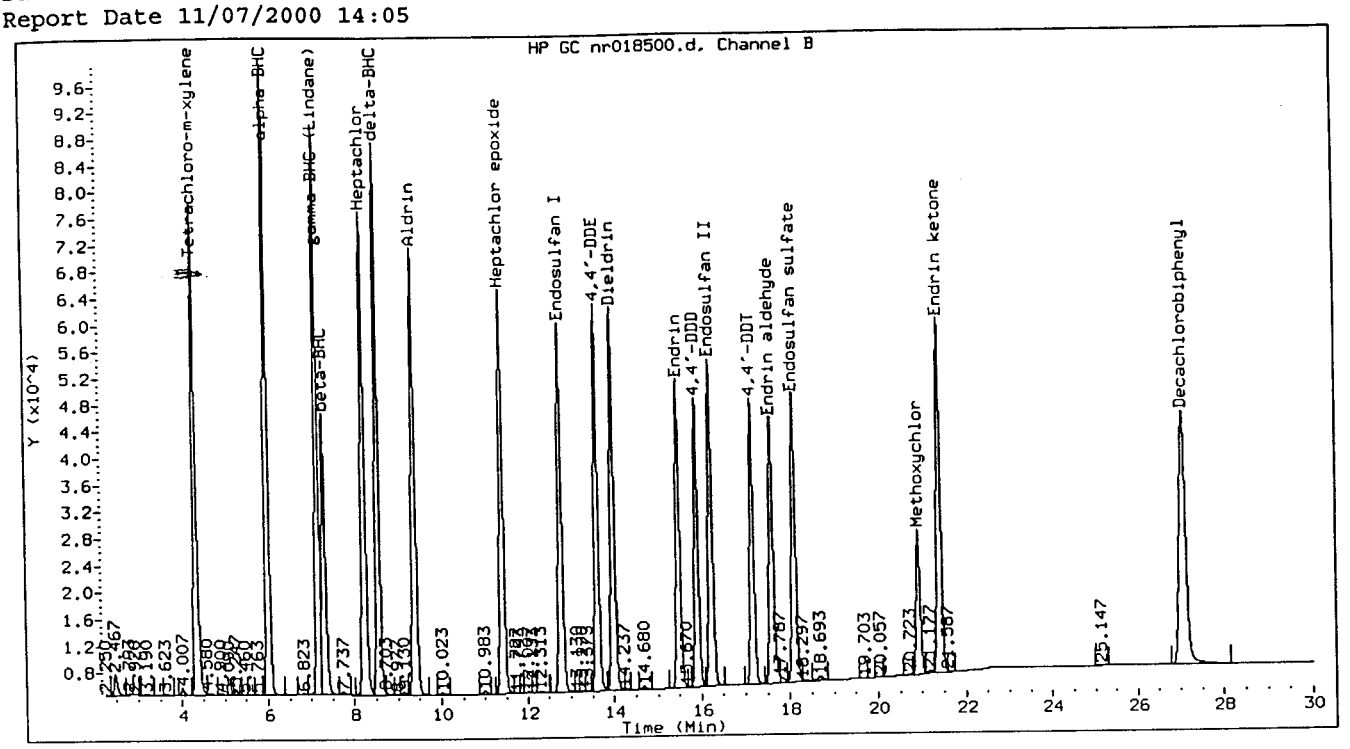
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Coefficients a0	a1	a2	%RSD or R^2	
Aldrin	3137.90	3447.72	3991.15	4346.85	4555.23	3.85940	0.00024	-9.498e-12	0.99970	*
alpha-BHC	3434.50	4369.40	4954.36	5269.57	5373.18	3.76236	0.00019	-2.968e-12	0.99978	*
beta-BHC	2187.40	2277.64	2333.99	2334.29	2363.86		2299.43		3.04312	
delta-BHC	2912.20	3613.24	4169.06	4497.50	4626.22	4.14780	0.00023	-5.739e-12	0.99971	*
gamma-BHC (Lindane)	3279.00	3938.38	4427.73	4629.34	4646.52	3.33876	0.00022	-1.079e-12	0.99982	*
4,4'-DDD	1871.70	2188.72	2516.44	2892.93	3042.72	5.21785	0.00036	-2.459e-11	0.99943	*
4,4'-DDE	2511.50	2818.06	3316.82	3695.03	3891.38	4.63337	0.00028	-1.46e-11	0.99957	*
4,4'-DDT	1833.50	2079.92	2502.72	2912.60	3085.03	5.95594	0.00036	-2.661e-11	0.99926	*
Dieldrin	2742.40	2989.46	3506.70	3897.11	4135.19	4.36099	0.00027	-1.451e-11	0.99961	*
Endosulfan I	2955.70	3033.48	3417.55	3658.20	3818.16	2.90411	0.00028	-1.238e-11	0.99981	*
Endosulfan II	2696.20	2765.68	3070.00	3359.92	3523.44	3.18199	0.00031	-1.671e-11	0.99976	*
Endosulfan sulfate	2293.00	2329.36	2689.66	2925.60	3053.29	3.62615	0.00036	-1.985e-11	0.99969	*
Endrin	2160.60	2261.26	2812.86	3121.30	3258.13	5.20986	0.00033	-1.745e-11	0.99941	*
Endrin aldehyde	2457.80	2331.52	2664.09	2557.88	2664.50		2535.16		5.62431	
Endrin ketone	2729.70	3074.66	3452.85	3702.59	3830.10	3.29831	0.00028	-9.942e-12	0.99980	*
Heptachlor	3713.00	3797.80	4259.89	4508.50	4605.62		4176.96		9.72163	
Heptachlor epoxide	3237.00	3304.78	3688.35	3938.18	4107.28	2.69895	0.00026	-1.053e-11	0.99983	*
Methoxychlor	1143.50	1195.90	1340.61	1482.86	1546.49	3.72142	0.00070	-7.953e-11	0.99967	*
Tetrachloro-m-xylene	4366.88	3847.80	3763.37	3961.19	4041.11		3996.07		5.82699	
Decachlorobiphenyl	4546.32	3907.16	4005.36	3912.77	3929.49		4060.22		6.76251	

Comments:

* = %RSD exceeded maximum upper limit. Non-linear curve used for quantitation.

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC6.i/608/rear/Nov00/11-06-00/06nov00a.b/nr018500.d Page 1
Report Date 11/07/2000 14:05



Method : /chem1/PESTGC6.i/608/rear/Nov00/11-06-00/06nov00a.b/Nr608.m
Sample Info : PEST MIX-100a
Lab ID : PEST MIX-100a
Inj Date : 06-NOV-2000 16:12
Operator : AB AB 11/07/00
Cpnd Sublist: SCpestRANGE

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_3

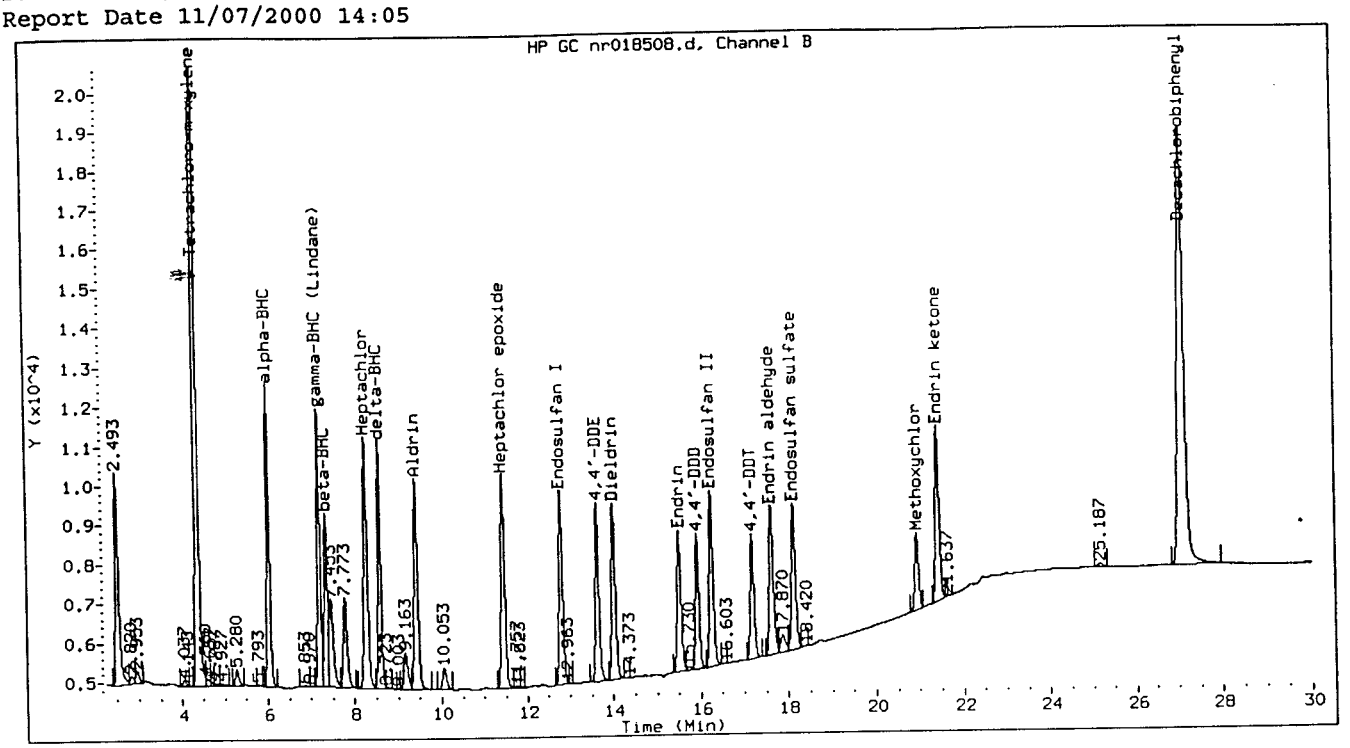
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
Aldrin		9.387	9.387	0.000	399115	97.833	97.833
alpha-BHC		6.000	6.000	0.000	495436	98.413	98.413
beta-BHC		7.310	7.310	0.000	233399	101.503	101.503
delta-BHC	(M)	8.553	8.553	0.000	416906	97.962	97.962
gamma-BHC (Lindane)		7.163	7.163	0.000	442773	98.812	98.812
4,4'-DDD		15.903	15.903	0.000	251644	94.785	94.785
4,4'-DDE		13.617	13.617	0.000	331682	96.787	96.787
4,4'-DDT		17.163	17.163	0.000	250272	94.583	94.583
Dieldrin	(M)	13.990	13.990	0.000	350670	97.063	97.063

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Endosulfan I		12.777	12.777	0.000	341755	98.450	98.450
Endosulfan II		16.223	16.223	0.000	307000	97.130	97.130
Endosulfan sulfate	(M)	18.107	18.107	0.000	268966	97.699	97.699
Endrin	(M)	15.487	15.487	0.000	281286	97.144	97.144
Endrin aldehyde	(M)	17.597	17.597	0.000	266409	105.086	105.086
Endrin ketone	(M)	21.400	21.400	0.000	345285	98.162	98.162
Heptachlor		8.230	8.230	0.000	425989	101.985	101.985
Heptachlor epoxide	(M)	11.407	11.407	0.000	368835	98.489	98.489
Methoxychlor		20.920	20.920	0.000	134061	96.473	96.473
Tetrachloro-m-xylene	(M)	4.320	4.320	0.000	376337	94.177	94.177
Decachlorobiphenyl	(M)	27.063	27.063	0.000	400536	98.649	98.649

COMMENTS:

M - Compound response manually integrated.

Data File: /chem1/PESTGC6.i/608/rear/Nov00/11-06-00/06nov00a.b/nr018508.d Page 1
Report Date 11/07/2000 14:05



Method : /chem1/PESTGC6.i/608/rear/Nov00/11-06-00/06nov00a.b/Nr608.m
Sample Info : PEST MIX-10a
Lab ID : PEST MIX-10a
Inj Date : 06-NOV-2000 21:00
Operator : AB AB 11/07/00
Cpnd Sublist: SCpestRANGE

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_1

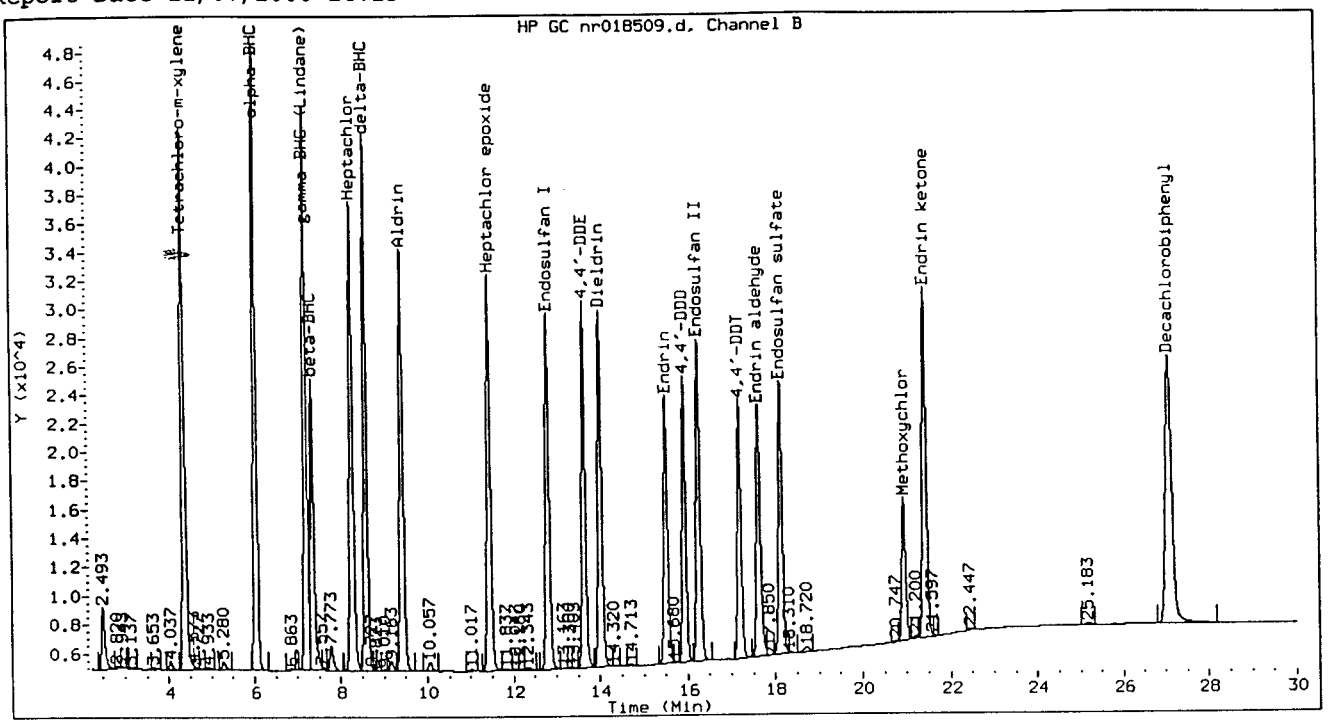
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
Aldrin	(M)	9.417	9.387	0.030	31379	11.357	11.357
alpha-BHC	(M)	6.030	6.000	0.030	34345	10.371	10.371
beta-BHC		7.347	7.310	0.037	21874	9.513	9.513
delta-BHC	(M)	8.583	8.553	0.030	29122	10.766	10.766
gamma-BHC (Lindane)		7.193	7.163	0.030	32790	10.424	10.424
4,4'-DDD		15.927	15.903	0.023	18717	11.987	11.987
4,4'-DDE		13.640	13.617	0.023	25115	11.724	11.724
4,4'-DDT	(M)	17.187	17.163	0.023	18335	12.562	12.562
Dieldrin		14.017	13.990	0.027	27424	11.739	11.739

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Endosulfan I	(M)	12.800	12.777	0.023	29557	11.282	11.282
Endosulfan II		16.250	16.223	0.027	26962	11.559	11.559
Endosulfan sulfate		18.127	18.107	0.020	22930	11.758	11.758
Endrin	(M)	15.513	15.487	0.027	21606	12.369	12.369
Endrin aldehyde	(M)	17.623	17.597	0.027	24578	9.695	9.695
Endrin ketone	(M)	21.420	21.400	0.020	27297	10.884	10.884
Heptachlor		8.260	8.230	0.030	37130	8.889	8.889
Heptachlor epoxide	(M)	11.433	11.407	0.027	32370	11.220	11.220
Methoxychlor		20.937	20.920	0.017	11435	11.744	11.744
Tetrachloro-m-xylene	(M)	4.353	4.320	0.033	109172	27.320	27.320
Decachlorobiphenyl	(M)	27.090	27.063	0.027	113658	27.993	27.993

COMMENTS:

M - Compound response manually integrated.

Data File: /chem1/PESTGC6.i/608/rear/Nov00/11-06-00/06nov00a.b/nr018509.d Page 1
Report Date 11/07/2000 14:13



Method : /chem1/PESTGC6.i/608/rear/Nov00/11-06-00/06nov00a.b/Nr608.m
Sample Info : PEST MIX-50a
Lab ID : PEST MIX-50a
Inj Date : 06-NOV-2000 21:32
Operator : AB AB 11/07/00
Cpnd Sublist: SCpestRANGE

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_2

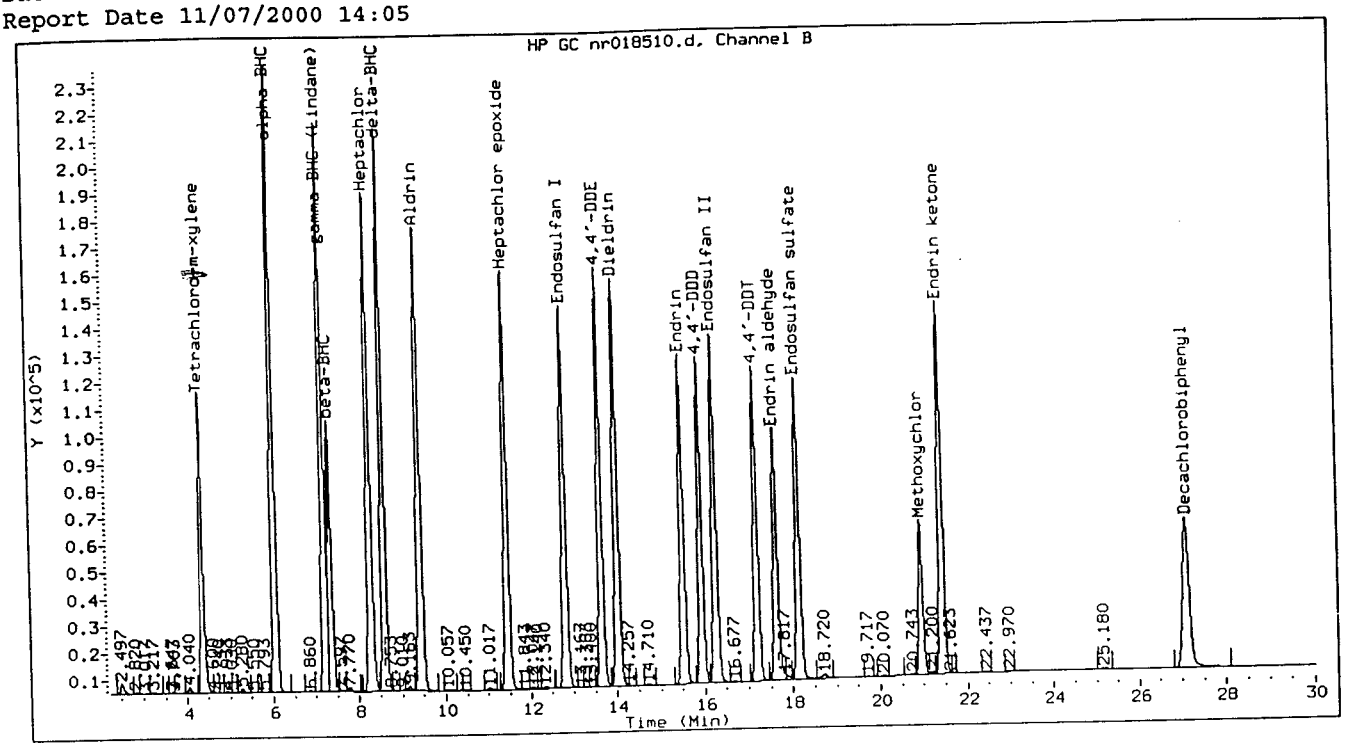
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Aldrin		9.420	9.387	0.033	172386	44.820	44.820
alpha-BHC		6.033	6.000	0.033	218470	45.679	45.679
beta-BHC	(M)	7.347	7.310	0.037	113882	49.526	49.526
delta-BHC	(M)	8.587	8.553	0.033	180662	45.046	45.046
gamma-BHC (Lindane)		7.197	7.163	0.033	196919	45.852	45.852
4,4'-DDD		15.930	15.903	0.027	109436	44.552	44.552
4,4'-DDE		13.643	13.617	0.027	140903	44.174	44.174
4,4'-DDT	(M)	17.190	17.163	0.027	103996	43.188	43.188
Dieldrin		14.017	13.990	0.027	149473	44.311	44.311

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Endosulfan I	(M)	12.807	12.777	0.030	151674	45.665	45.665
Endosulfan II	(M)	16.253	16.223	0.030	138284	45.889	45.889
Endosulfan sulfate	(M)	18.130	18.107	0.023	116468	44.714	44.714
Endrin	(M)	15.513	15.487	0.027	113063	42.495	42.495
Endrin aldehyde	(M)	17.623	17.597	0.027	116576	45.984	45.984
Endrin ketone	(M)	21.423	21.400	0.023	153733	45.828	45.828
Heptachlor		8.263	8.230	0.033	189890	45.461	45.461
Heptachlor epoxide		11.437	11.407	0.030	165239	45.968	45.968
Methoxychlor		20.940	20.920	0.020	59795	45.444	45.444
Tetrachloro-m-xylene	(M)	4.353	4.320	0.033	192390	48.145	48.145
Decachlorobiphenyl	(M)	27.090	27.063	0.027	195358	48.115	48.115

COMMENTS:

M - Compound response manually integrated.

Data File: /chem1/PESTGC6.i/608/rear/Nov00/11-06-00/06nov00a.b/nr018510.d Page 1
Report Date 11/07/2000 14:05



Method : /chem1/PESTGC6.i/608/rear/Nov00/11-06-00/06nov00a.b/Nr608.m
Sample Info : PEST MIX-250a
Lab ID : PEST MIX-250a
Inj Date : 06-NOV-2000 22:05
Operator : AB AP 11/07/00
Cpnd Sublist: SCpestRANGE

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_4

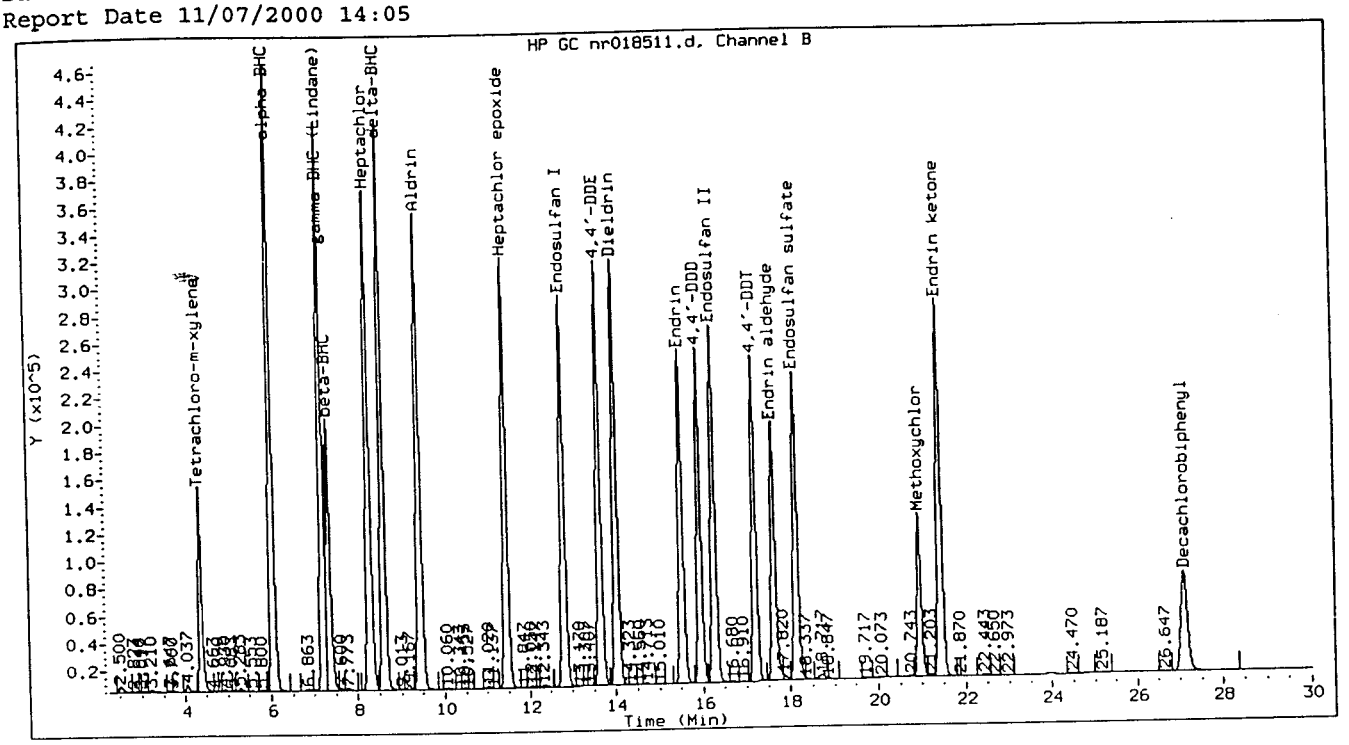
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
Aldrin		9.420	9.387	0.033	1086713	252.634	252.634
alpha-BHC		6.033	6.000	0.033	1317392	252.228	252.228
beta-BHC		7.343	7.310	0.033	583572	253.789	253.789
delta-BHC	(M)	8.587	8.553	0.033	1124376	252.595	252.595
gamma-BHC (Lindane)		7.197	7.163	0.033	1157336	251.997	251.997
4,4'-DDD		15.930	15.903	0.027	723232	254.249	254.249
4,4'-DDE		13.647	13.617	0.030	923758	253.304	253.304
4,4'-DDT		17.193	17.163	0.030	728151	254.552	254.552
Dieldrin	(M)	14.023	13.990	0.033	974278	253.100	253.100

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Endosulfan I		12.807	12.777	0.030	914549	252.105	252.105
Endosulfan II		16.253	16.223	0.030	839980	252.753	252.753
Endosulfan sulfate		18.133	18.107	0.027	731401	252.727	252.727
Endrin	(M)	15.517	15.487	0.030	780326	253.453	253.453
Endrin aldehyde	(M)	17.623	17.597	0.027	639469	252.240	252.240
Endrin ketone	(M)	21.423	21.400	0.023	925647	252.271	252.271
Heptachlor		8.263	8.230	0.033	1127126	269.843	269.843
Heptachlor epoxide		11.437	11.407	0.030	984544	252.011	252.011
Methoxychlor		20.943	20.920	0.023	370715	253.226	253.226
Tetrachloro-m-xylene	(M)	4.350	4.320	0.030	594179	148.691	148.691
Decachlorobiphenyl	(M)	27.097	27.063	0.033	586916	144.553	144.553

COMMENTS:

M - Compound response manually integrated.

Data File: /chem1/PESTGC6.i/608/rear/Nov00/11-06-00/06nov00a.b/nr018511.d Page 1
Report Date 11/07/2000 14:05



Method : /chem1/PESTGC6.i/608/rear/Nov00/11-06-00/06nov00a.b/Nr608.m
Sample Info : PEST MIX-500a
Lab ID : PEST MIX-500a
Inj Date : 06-NOV-2000 22:37
Operator : AB AB 11/07/00
Cpnd Sublist: SCpestRANGE

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_5

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Aldrin	9.423	9.387	0.037	2277615	499.496	499.496
alpha-BHC	6.037	6.000	0.037	2686591	499.547	499.547
beta-BHC	7.347	7.310	0.037	1181928	514.008	514.008
delta-BHC	8.590	8.553	0.037	2313108	499.483	499.483
gamma-BHC (Lindane)	7.200	7.163	0.037	2323262	499.577	499.577
4,4'-DDD	15.933	15.903	0.030	1521359	499.210	499.210
4,4'-DDE	13.650	13.617	0.033	1945690	499.379	499.379
4,4'-DDT	17.197	17.163	0.033	1542516	499.159	499.159
Dieldrin	14.023	13.990	0.033	2067593	499.426	499.426

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Endosulfan I		12.810	12.777	0.033	1909078	499.594	499.594
Endosulfan II		16.257	16.223	0.033	1761721	499.486	499.486
Endosulfan sulfate	(M)	18.137	18.107	0.030	1526647	499.476	499.476
Endrin	(M)	15.520	15.487	0.033	1629066	499.329	499.329
Endrin aldehyde	(M)	17.627	17.597	0.030	1332251	525.510	525.510
Endrin ketone	(M)	21.427	21.400	0.027	1915052	499.556	499.556
Heptachlor		8.270	8.230	0.040	2302809	551.312	551.312
Heptachlor epoxide		11.440	11.407	0.033	2053639	499.612	499.612
Methoxychlor		20.943	20.920	0.023	773247	499.391	499.391
Tetrachloro-m-xylene	(M)	4.353	4.320	0.033	808221	202.254	202.254
Decachlorobiphenyl	(M)	27.100	27.063	0.037	785898	193.560	193.560

COMMENTS:

M - Compound response manually integrated.

SINGLE COMPONENT COMPOUND CONTINUING CALIBRATION REPORT

Data File: /chem1/PESTGC6.i/608/rear/Nov00/11-06-00/06nov00c.b/nr018573.d
Method: /chem1/PESTGC6.i/608/rear/Nov00/11-06-00/06nov00c.b/Nr608.m

Sample Information: PESTMIX-100c
Injection Date: 08-NOV-2000 09:55

Compound	Exp Conc	Actual Conc	Percent Diff.
Aldrin	100	102.15	2.15
alpha-BHC	100	104.36	4.36
beta-BHC	100	106.46	6.46
delta-BHC	100	105.54	5.54
gamma-BHC (Lindane)	100	103.66	3.66
4,4'-DDD	100	109.56	9.56
4,4'-DDE	100	102.86	2.86
4,4'-DDT	100	90.16	9.84
Dieldrin	100	102.56	2.56
Endosulfan I	100	101.97	1.97
Endosulfan II	100	101.58	1.58
Endosulfan sulfate	100	104.58	4.58
Endrin	100	92.50	7.50
Endrin aldehyde	100	110.10	10.10
Endrin ketone	100	109.27	9.27
Heptachlor	100	106.86	6.86
Heptachlor epoxide	100	103.30	3.30
Methoxychlor	100	94.87	5.13
Tetrachloro-m-xylene	100	97.89	2.11
Decachlorobiphenyl	100	98.61	1.39

GC ORGANICS RETENTION TIME CHECK

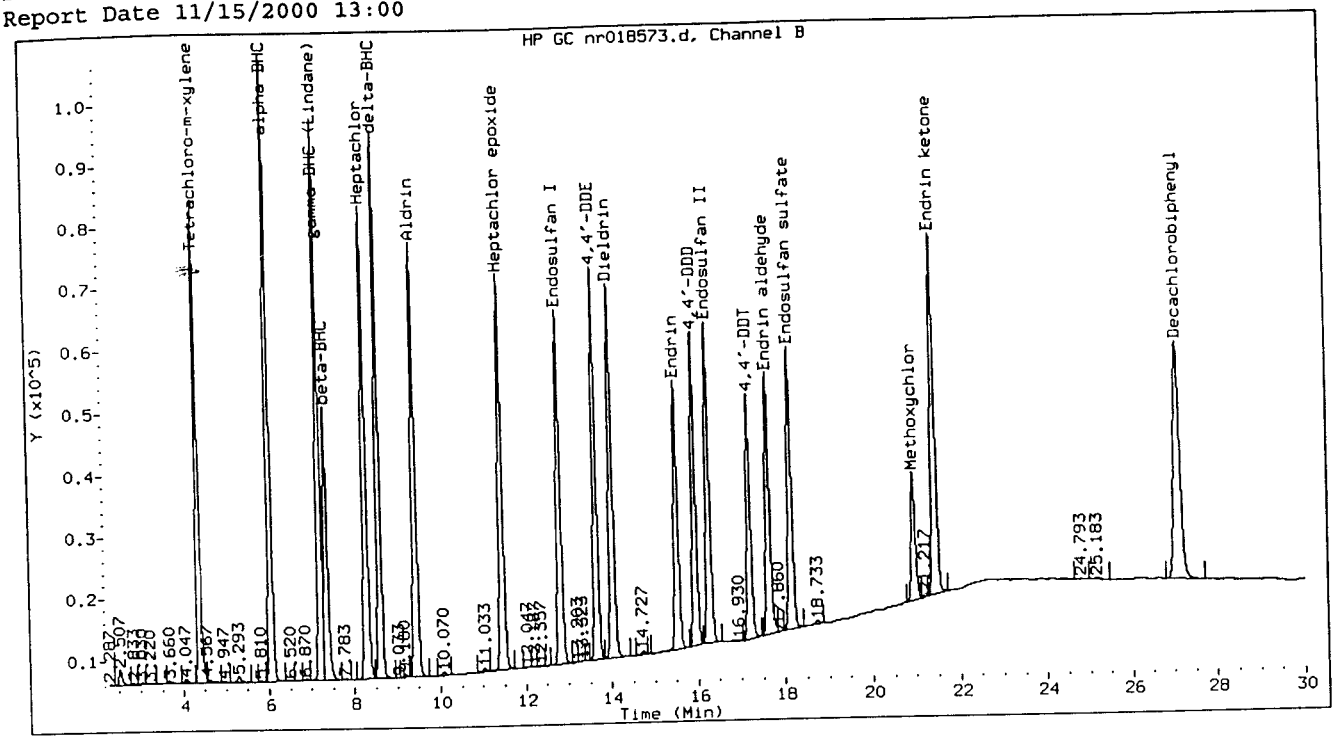
Instrument ID: PESTGC6.i

Midpoint Calibration File: /chem1/PESTGC6.i/608/rear/Nov00/11-06-00/06nov00a.b/nr018500.d
Injection Date: 06-NOV-2000 16:12

Continuing Calibration File: /chem1/PESTGC6.i/608/rear/Nov00/11-06-00/06nov00c.b/nr018573.d
Injection Date: 08-NOV-2000 09:55

Compound	Init Cal RT	RT Range	Cont Cal RT	Flags
Aldrin	9.387	(9.337 - 9.437)	9.433	
alpha-BHC	6.000	(5.950 - 6.050)	6.050	
beta-BHC	7.310	(7.260 - 7.360)	7.360	
delta-BHC	8.553	(8.503 - 8.603)	8.600	
gamma-BHC (Lindane)	7.163	(7.113 - 7.213)	7.210	
4,4'-DDD	15.903	(15.833 - 15.973)	15.940	
4,4'-DDE	13.617	(13.547 - 13.687)	13.657	
4,4'-DDT	17.163	(17.093 - 17.233)	17.200	
Dieldrin	13.990	(13.920 - 14.060)	14.030	
Endosulfan I	12.777	(12.707 - 12.847)	12.820	
Endosulfan II	16.223	(16.153 - 16.293)	16.263	
Endosulfan sulfate	18.107	(18.037 - 18.177)	18.140	
Endrin	15.487	(15.417 - 15.557)	15.527	
Endrin aldehyde	17.597	(17.527 - 17.667)	17.633	
Endrin ketone	21.400	(21.330 - 21.470)	21.430	
Heptachlor	8.230	(8.180 - 8.280)	8.277	
Heptachlor epoxide	11.407	(11.337 - 11.477)	11.450	
Methoxychlor	20.920	(20.850 - 20.990)	20.950	
Tetrachloro-m-xylene	4.320	(4.270 - 4.370)	4.363	
Decachlorobiphenyl	27.063	(26.963 - 27.163)	27.100	

Data File: /chem1/PESTGC6.i/608/rear/Nov00/11-06-00/06nov00c.b/nr018573.d Page 1
Report Date 11/15/2000 13:00



Method : /chem1/PESTGC6.i/608/rear/Nov00/11-06-00/06nov00c.b/Nr608.m
Sample Info : PESTMIX-100c
Lab ID : PESTMIX-100c
Inj Date : 08-NOV-2000 09:55
Operator : AB AB 11/15/00
Cpnd Sublist: SCpestRANGE

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CCALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
Aldrin		9.433	9.433	0.000	417744	102.145	102.145
alpha-BHC		6.050	6.050	0.000	526819	104.359	104.359
beta-BHC		7.360	7.360	0.000	244792	106.457	106.457
delta-BHC		8.600	8.600	0.000	450966	105.538	105.538
gamma-BHC (Lindane)		7.210	7.210	0.000	465305	103.659	103.659
4,4'-DDD		15.940	15.940	0.000	294028	109.564	109.564
4,4'-DDE	(M)	13.657	13.657	0.000	353944	102.857	102.857
4,4'-DDT		17.200	17.200	0.000	237561	90.162	90.162
Dieldrin	(M)	14.030	14.030	0.000	371892	102.558	102.558

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Endosulfan I	(M)	12.820	12.820	0.000	354533	101.967	101.967
Endosulfan II		16.263	16.263	0.000	321806	101.582	101.582
Endosulfan sulfate		18.140	18.140	0.000	288973	104.582	104.582
Endrin		15.527	15.527	0.000	266872	92.501	92.501
Endrin aldehyde	(M)	17.633	17.633	0.000	279124	110.101	110.101
Endrin ketone	(M)	21.430	21.430	0.000	386276	109.267	109.267
Heptachlor		8.277	8.277	0.000	446353	106.861	106.861
Heptachlor epoxide		11.450	11.450	0.000	387651	103.299	103.299
Methoxychlor	(M)	20.950	20.950	0.000	131713	94.873	94.873
Tetrachloro-m-xylene	(M)	4.363	4.363	0.000	391159	97.886	97.886
Decachlorobiphenyl		27.100	27.100	0.000	400386	98.612	98.612

COMMENTS:

M - Compound response manually integrated.

MULTICOMPONENT COMPOUND CONTINUING CALIBRATION REPORT

Data File: /chem1/PESTGC6.i/608/rear/Nov00/11-06-00/06nov00c.b/nr018574.d
Method: /chem1/PESTGC6.i/608/rear/Nov00/11-06-00/06nov00c.b/Nr608.m

Sample Information: 1016/1260-1000c
Injection Date: 08-NOV-2000 10:27

Compound	Signal No.	RT	Exp Conc	Actual Conc	Percent Diff.
Aroclor-1016	1	5.910	1000	993.85	0.62
Aroclor-1016	2	7.113	1000	975.01	2.50
Aroclor-1016	3	8.267	1000	988.06	1.19
Aroclor-1016	4	8.820	1000	979.03	2.10
Aroclor-1016	5	9.300	1000	966.54	3.35
Aroclor-1016	6	9.503	1000	976.35	2.37
Aroclor-1016	7	10.517	1000	949.53	5.05
Aroclor-1016	8	10.977	1000	977.71	2.23
Aroclor-1260	1	15.013	1000	908.23	9.18
Aroclor-1260	2	15.330	1000	919.11	8.09
Aroclor-1260	3	16.763	1000	892.30	10.77
Aroclor-1260	4	17.153	1000	970.02	3.00
Aroclor-1260	5	17.280	1000	864.80	13.52
Aroclor-1260	6	19.357	1000	930.96	6.90
Aroclor-1260	7	20.970	1000	907.33	9.27
Aroclor-1260	8	21.333	1000	971.77	2.82

GC ORGANICS RETENTION TIME CHECK

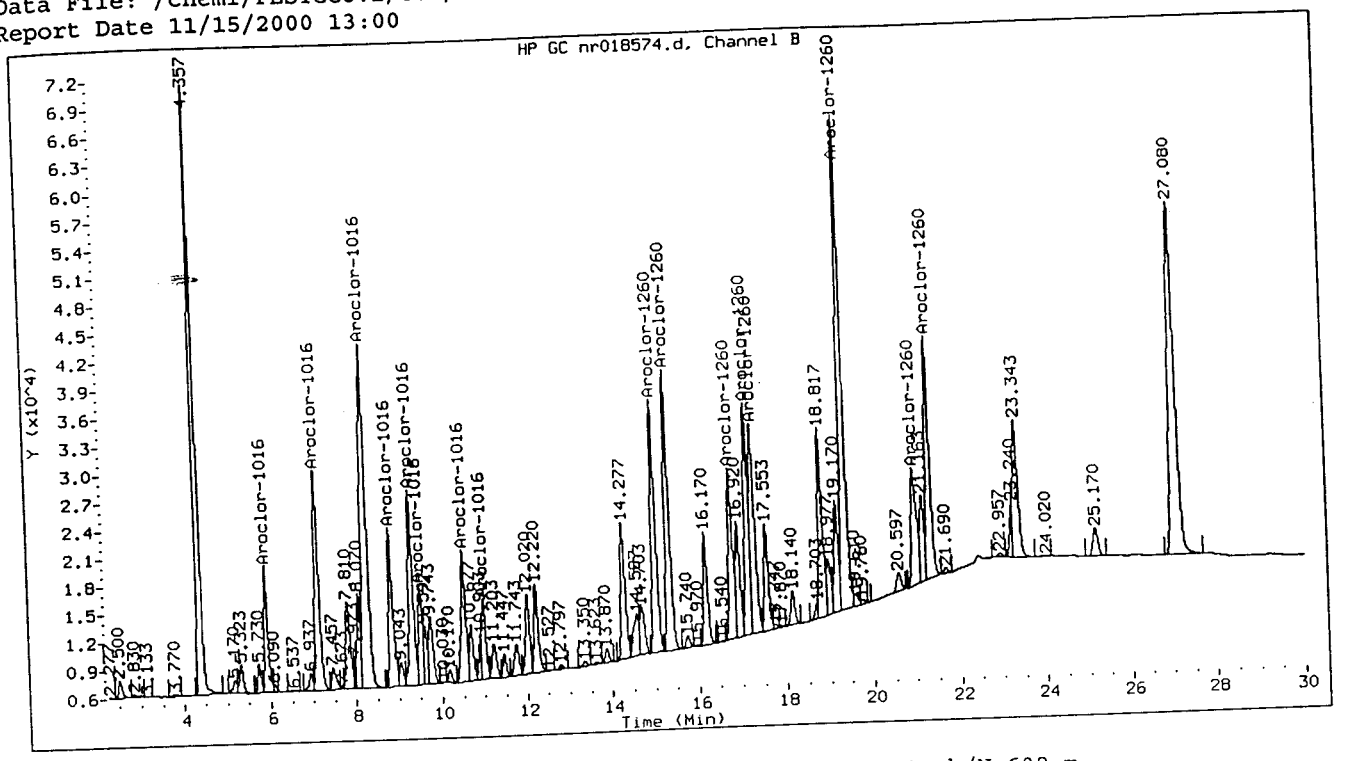
Instrument ID: PESTGC6.i

Midpoint Calibration File: /chem1/PESTGC6.i/608/rear/Oct00/10-31-00/31oct00a.b/nr018394.d
Injection Date: 31-OCT-2000 16:03

Continuing Calibration File: /chem1/PESTGC6.i/608/rear/Nov00/11-06-00/06nov00c.b/nr018574.d
Injection Date: 08-NOV-2000 10:27

Compound	Init Cal RT	RT Range	Cont Cal RT	Flags
Aroclor-1016	5.947	(5.877 - 6.017)	5.910	
	7.157	(7.087 - 7.227)	7.113	
	8.310	(8.240 - 8.380)	8.267	
	8.867	(8.797 - 8.937)	8.820	
	9.347	(9.277 - 9.417)	9.300	
	9.550	(9.480 - 9.620)	9.503	
	10.567	(10.497 - 10.637)	10.517	
	11.030	(10.960 - 11.100)	10.977	
Aroclor-1260	15.070	(15.000 - 15.140)	15.013	
	15.387	(15.317 - 15.457)	15.330	
	16.827	(16.757 - 16.897)	16.763	
	17.213	(17.143 - 17.283)	17.153	
	17.337	(17.267 - 17.407)	17.280	
	19.417	(19.347 - 19.487)	19.357	
	21.030	(20.960 - 21.100)	20.970	
	21.397	(21.327 - 21.467)	21.333	

Data File: /chem1/PESTGC6.i/608/rear/Nov00/11-06-00/06nov00c.b/nr018574.d Page 1
Report Date 11/15/2000 13:00



Method : /chem1/PESTGC6.i/608/rear/Nov00/11-06-00/06nov00c.b/Nr608.m
Sample Info : 1016/1260-1000c
Lab ID : 1016/1260-1000c
Inj Date : 08-NOV-2000 10:27
Operator : AB AB 11/15/00
Cpnd Sublist: AR16600

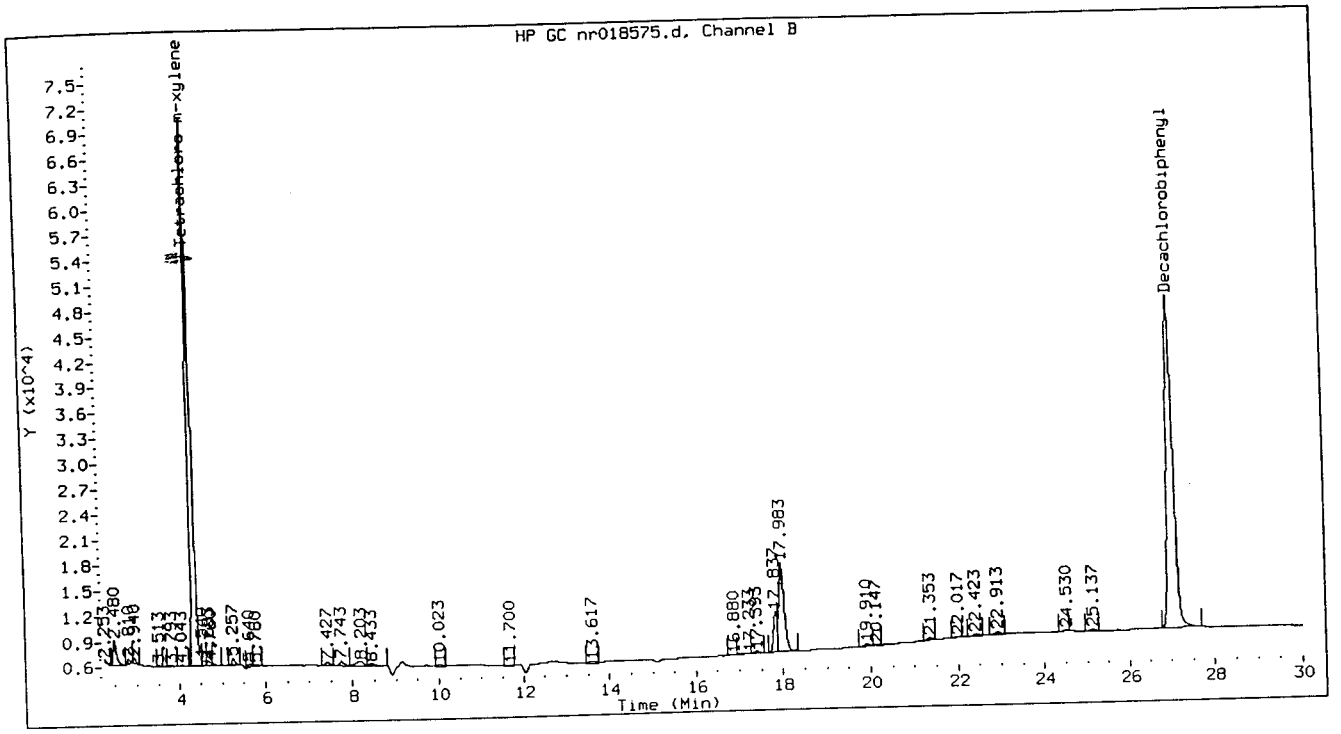
Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CCALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
Aroclor-1016	(M)	5.910	5.910	0.000	75640	993.849	993.849
(2)		7.113	7.113	0.000	161668	975.007	975.007
(3)		8.267	8.267	0.000	312124	988.064	988.064
(4)		8.820	8.820	0.000	112792	979.030	979.030
(5)		9.300	9.300	0.000	145979	966.540	966.540
(6)		9.503	9.503	0.000	66343	976.345	976.345
(7)		10.517	10.517	0.000	101919	949.528	949.528
(8)		10.977	10.977	0.000	57529	977.708	977.708
							980.00
Average of peak concentrations:							
Aroclor-1260	(M)	15.013	15.013	0.000	181213	908.232	908.232
(2)		15.330	15.330	0.000	197676	919.110	919.110
(3)		16.763	16.763	0.000	122010	892.297	892.297
(4)		17.153	17.153	0.000	169270	970.025	970.025
(5)		17.280	17.280	0.000	153083	864.797	864.797
(6)		19.357	19.357	0.000	384286	930.962	930.962

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
(7)	20.970	20.970	0.000	108836	907.329	907.329
(8)	21.333	21.333	0.000	176471	971.767	971.767
Average of peak concentrations:						920.00

COMMENTS:
M - Compound response manually integrated.

Data File: /chem1/PESTGC6.i/608/rear/Nov00/11-06-00/06nov00c.b/nr018575.d Page 1
Report Date 11/15/2000 13:00



Method : /chem1/PESTGC6.i/608/rear/Nov00/11-06-00/06nov00c.b/Nr608.m
Sample Info : WP313B;1000;5;
Lab ID : WP313B
Inj Date : 08-NOV-2000 19:21
Operator : AB AB 11/15/00
Cpnd Sublist: PCB+

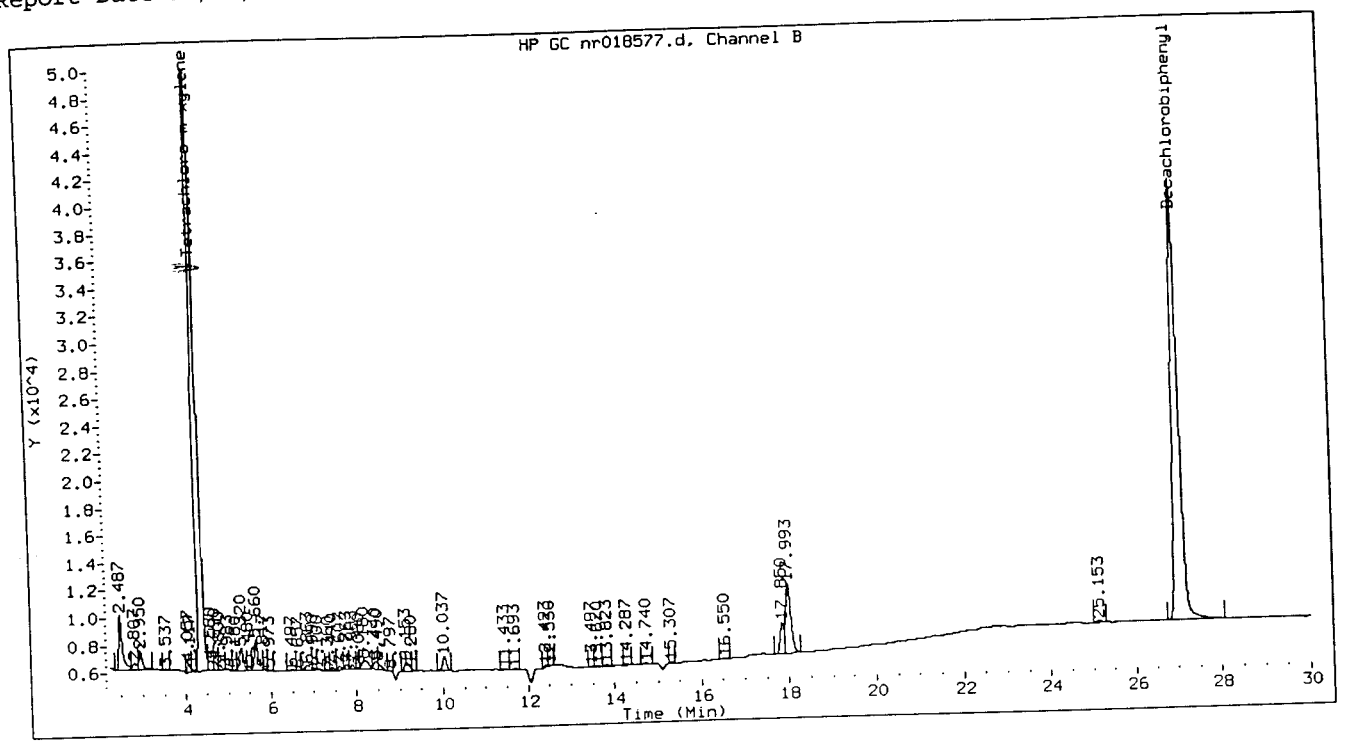
Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: BLANK

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
Tetrachloro-m-xylene	(M)	4.330	4.363	0.033	335350	83.920	0.420
Decachlorobiphenyl	(M)	27.040	27.100	0.060	414042	101.975	0.510

COMMENTS:

M - Compound response manually integrated.

Data File: /chem1/PESTGC6.i/608/rear/Nov00/11-06-00/06nov00c.b/nr018577.d Page 1
Report Date 11/15/2000 13:00



Method : /chem1/PESTGC6.i/608/rear/Nov00/11-06-00/06nov00c.b/Nr608.m
Sample Info : 237831;620;5;
Lab ID : 237831
Inj Date : 08-NOV-2000 20:26
Operator : AB 11/15/00
Cpnd Sublist: PCB+

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: SAMPLE

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
Tetrachloro-m-xylene	(M)	4.340	4.363	0.023	352741	88.272	0.712
Decachlorobiphenyl	(M)	27.053	27.100	0.047	338329	83.328	0.672

COMMENTS:

M - Compound response manually integrated.

Client ID: EB-3_16-16.5
Site: Rexam DSI

Lab Sample ID: 237814
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/29/00
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf026321.d
Rear File ID: pr026321.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 23

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	87	R
Aroclor-1221	ND	87	R
Aroclor-1232	ND	87	R
Aroclor-1242	ND	87	R
Aroclor-1248	ND	87	R
Aroclor-1254	ND	87	R
Aroclor-1260	ND	87	R
Aroclor-1262	ND	87	R
Aroclor-1268			

Client ID: EB-4_1.5-2
Site: Rexam DSI

Lab Sample ID: 237815
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/29/00
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf026322.d
Rear File ID: pr026322.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 8

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	73	R
Aroclor-1221	ND	73	R
Aroclor-1232	ND	73	R
Aroclor-1242	ND	73	R
Aroclor-1248	ND	73	R
Aroclor-1254	ND	73	R
Aroclor-1260	ND	73	R
Aroclor-1262	ND	73	R
Aroclor-1268	ND	73	R

Client ID: TPE-3
Site: Rexam DSI

Lab Sample ID: 237820
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/31/00
Date Analyzed: 11/01/00
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf026391.d
Rear File ID: pr026391.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 4

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	70	R
Aroclor-1221	ND	70	R
Aroclor-1232	ND	70	R
Aroclor-1242	ND	70	R
Aroclor-1248	ND	70	R
Aroclor-1254	ND	70	R
Aroclor-1260	ND	70	R
Aroclor-1262	ND	70	R
Aroclor-1268			

Client ID: **RC-1_2nd_Flr**
Site: Rexam DSI

Lab Sample ID: **237825**
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/29/00
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf026323.d
Rear File ID: pr026323.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 0

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	67	R
Aroclor-1221	ND	67	R
Aroclor-1232	ND	67	R
Aroclor-1242	ND	67	R
Aroclor-1248	ND	67	R
Aroclor-1254	420	67	R
Aroclor-1260	ND	67	R
Aroclor-1262	ND	67	R
Aroclor-1268	ND	67	R

Client ID: RC-2_3rd_Flr
Site: Rexam DSI

Lab Sample ID: 237826
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/29/00
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf026324.d
Rear File ID: pr026324.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 4

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	70	R
Aroclor-1221	ND	70	R
Aroclor-1232	ND	70	R
Aroclor-1242	ND	70	R
Aroclor-1248	ND	70	R
Aroclor-1254	ND	70	R
Aroclor-1260	ND	70	R
Aroclor-1262	ND	70	R
Aroclor-1268	ND	70	R

Client ID: **RC-3_3rd_Flr**
Site: Rexam DSI

Lab Sample ID: **237827**
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/29/00
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf026328.d
Rear File ID: pr026328.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 7

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	72	R
Aroclor-1221	ND	72	R
Aroclor-1232	ND	72	R
Aroclor-1242	ND	72	R
Aroclor-1248	ND	72	R
Aroclor-1254	ND	72	R
Aroclor-1260	ND	72	R
Aroclor-1262	ND	72	R
Aroclor-1268	ND	72	R

Client ID: **RC-4_4th_Flr**
Site: Rexam DSI

Lab Sample ID: **237828**
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/29/00
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf026325.d
Rear File ID: pr026325.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 4

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	70	R
Aroclor-1221	ND	70	R
Aroclor-1232	ND	70	R
Aroclor-1242	ND	70	R
Aroclor-1248	ND	70	R
Aroclor-1254	ND	70	R
Aroclor-1260	ND	70	R
Aroclor-1262	ND	70	R
Aroclor-1268	ND	70	R

Client ID: **ES-1_ElShaft_4th**
Site: Rexam DSI

Lab Sample ID: **237829**
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/29/00
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf026326.d
Rear File ID: pr026326.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 40

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	110	R
Aroclor-1221	ND	110	R
Aroclor-1232	ND	110	R
Aroclor-1242	ND	110	R
Aroclor-1248	ND	110	R
Aroclor-1254	ND	110	R
Aroclor-1260	ND	110	R
Aroclor-1262	ND	110	R
Aroclor-1268	ND	110	R

Client ID: **EB-4_16-16.5**
Site: Rexam DSI

Lab Sample ID: **237839**
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/29/00
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf026327.d
Rear File ID: pr026327.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 8

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	73	R
Aroclor-1221	ND	73	R
Aroclor-1232	ND	73	R
Aroclor-1242	ND	73	R
Aroclor-1248	ND	73	R
Aroclor-1254	ND	73	R
Aroclor-1260	ND	73	R
Aroclor-1262	ND	73	R
Aroclor-1268	ND	73	R

GC ORGANICS SURROGATE RECOVERY

Matrix: SOIL Level: LOW Lab Job No: F104

	LABORATORY SAMPLE NO.	DCB 1 %REC #	DCB 2 %REC #	TOT OUT
01	SP302	116	126	0
02	237814	105	109	0
03	237815	103	108	0
04	237825	131	94	0
05	237826	111	80	0
06	237828	115	78	0
07	237829	103	91	0
08	237839	83	88	0
09	237827	103	93	0
10	SP305A	121	119	0
11	237820	115	109	0
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

ADVISORY QC LIMITS (39-154)

S1 (DCB) = Decachlorobiphenyl

\# Column to be used to flag recovery values
* Values outside of advisory QC limits
D Surrogate diluted out
R Surrogate removed during H2SO4 cleanup procedure
** Not detected due to coeluting interference

GC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
METHOD 8082

Matrix: SOIL

Level: LOW

Matrix Spike - Lab Sample No.: 237639

MS Sample from Lab Job No: F074

QA Batch: 7005

Compound	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS % REC #	QC. LIMITS REC.
Aroclor-1016	340	0.00	400	118	54-133
Aroclor-1260	340	0.00	400	118	65-160

Compound	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	340	390	115	3	25	54-133
Aroclor-1260	340	400	118	0	30	65-160

Column to be used to flag recovery and RPD values with an asterik
* Values outside of QC limits
RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

GC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
METHOD 8082

Matrix: SOIL

Level: LOW

Matrix Spike - Lab Sample No.: 237966

MS Sample from Lab Job No: F128

QA Batch: 7008

Compound	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS % REC #	QC. LIMITS REC.
Aroclor-1016	370	0.00	400	108	54-133
Aroclor-1260	370	0.00	380	103	65-160

Compound	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	370	450	122	12	25	54-133
Aroclor-1260	370	410	111	8	30	65-160

Column to be used to flag recovery and RPD values with an asterik
* Values outside of QC limits
RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

GC ORGANICS METHOD BLANK SUMMARY

LAB SAMPLE NO.

SP302

Matrix: SOIL

Level: LOW

Instrument ID: PESTGC5

Date Analyzed: 10/29/00

Time Analyzed: 1446

Lab File ID: PR026316

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

	CLIENT ID.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EB-3_16-16.5	237814	pr026321.d	10/29/00
02	EB-4_1.5-2	237815	pr026322.d	10/29/00
03	RC-1_2nd_Flr	237825	pr026323.d	10/29/00
04	RC-2_3rd_Flr	237826	pr026324.d	10/29/00
05	RC-4_4th_Flr	237828	pr026325.d	10/29/00
06	ES-1_ElShaft	237829	pr026326.d	10/29/00
07	EB-4_16-16.5	237839	pr026327.d	10/29/00
08	RC-3_3rd_Flr	237827	pr026328.d	10/29/00
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
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23				
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25				
26				
27				
28				
29				
30				

COMMENTS:

Client ID: **SP302**
Site:

Lab Sample ID: **SP302**
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Extracted: 10/28/00
Date Analyzed: 10/29/00
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf026316.d
Rear File ID: pr026316.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 0

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	67	R
Aroclor-1221	ND	67	R
Aroclor-1232	ND	67	R
Aroclor-1242	ND	67	R
Aroclor-1248	ND	67	R
Aroclor-1254	ND	67	R
Aroclor-1260	ND	67	R
Aroclor-1262	ND	67	R
Aroclor-1268	ND	67	R

GC ORGANICS METHOD BLANK SUMMARY

LAB SAMPLE NO.

SP305A

Matrix: SOIL

Level: LOW

Instrument ID: PESTGC5

Date Analyzed: 10/31/00

Time Analyzed: 2058

Lab File ID: PR026380

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

	CLIENT ID.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	TPE-3	237820	pr026391.d	11/01/00
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
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20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

Client ID: **SP305A**
Site:

Lab Sample ID: **SP305A**
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Extracted: 10/31/00
Date Analyzed: 10/31/00
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf026380.d
Rear File ID: pr026380.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 0

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	67	R
Aroclor-1221	ND	67	R
Aroclor-1232	ND	67	R
Aroclor-1242	ND	67	R
Aroclor-1248	ND	67	R
Aroclor-1254	ND	67	R
Aroclor-1260	ND	67	R
Aroclor-1262	ND	67	R
Aroclor-1268	ND	67	R

Pesticide/PCB Retention Time Shift Summary

(for databatch - /chem1/PESTGC5.i/8082/rear/Oct00/10-29-00/29oct00a.b, as of 11/17/2000 11:07)

Instrument ID: PESTGC5.i Column ID: DB-608 Primary Column

Dates of Analysis: 10/29/00 to 10/29/00

Retention Time Shift Marker - Decachlorobiphenyl
QC Limit for RT Shift is 0.10 min

Absolute Surrogate RT From Cal. Standard Level 3: DCB = 25.483

Lab Sample ID	Data File	Injection Time	RT	DLT RT
SP302	pr026316.d	29-OCT-2000 14:46	25.480	0.003
237814	pr026321.d	29-OCT-2000 17:24	25.470	0.013
237815	pr026322.d	29-OCT-2000 17:55	25.470	0.013
237825	pr026323.d	29-OCT-2000 18:26	25.473	0.010
237826	pr026324.d	29-OCT-2000 18:58	25.550	0.067
237828	pr026325.d	29-OCT-2000 19:29	25.547	0.063
237829	pr026326.d	29-OCT-2000 20:01	25.467	0.017
237839	pr026327.d	29-OCT-2000 20:32	25.470	0.013
237827	pr026328.d	29-OCT-2000 21:03	25.470	0.013

D = Surrogate diluted out.

Pesticide/PCB Retention Time Shift Summary

(for databatch - /chem1/PESTGC5.i/8082/rear/Oct00/10-31-00/31oct00a.b,
as of 11/17/2000 11:07)

Instrument ID: PESTGC5.i Column ID: DB-608 Primary Column

Dates of Analysis: 10/31/00 to 11/01/00

Retention Time Shift Marker - Decachlorobiphenyl
QC Limit for RT Shift is 0.10 min

Absolute Surrogate RT From Cal. Standard Level 3: DCB = 25.507

Lab Sample ID	Data File	Injection Time	RT	DLT RT
SP305A	pr026380.d	31-OCT-2000 20:58	25.507	0.000
237820	pr026391.d	01-NOV-2000 02:44	25.483	0.023

D = Surrogate diluted out.

GC ORGANICS ANALYTICAL SEQUENCE SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-608 Primary Column

	Lab Sample ID	Client Sample ID	Lab File ID	Sample Type	Inj. Date	Inj. Time
1	1221-1000c		pr026190.d	CALIB_3	10/24/00	1555
2	1232-1000c		pr026191.d	CALIB_3	10/24/00	1627
3	1242-1000c		pr026192.d	CALIB_3	10/24/00	1658
4	1248-1000c		pr026193.d	CALIB_3	10/24/00	1730
5	1254-1000c		pr026194.d	CALIB_3	10/24/00	1801
6	1262-1000c		pr026195.d	CALIB_3	10/24/00	1832
7	1268-1000c		pr026196.d	CALIB_3	10/24/00	1904
8	1016/1260-100c		pr026197.d	CALIB_1	10/24/00	1935
9	1016/1260-500c		pr026198.d	CALIB_2	10/24/00	2007
10	1016/1260-1000c		pr026199.d	CALIB_3	10/24/00	2038
11	1016/1260-1500c		pr026200.d	CALIB_4	10/24/00	2109
12	1016/1260-2500c		pr026201.d	CALIB_5	10/24/00	2141
13	1016/1260-1000a		pr026315.d	CCALIB_3	10/29/00	1359
14	SP302		pr026316.d	BLANK	10/29/00	1446
15	237814	EB-3_16-16.5	pr026321.d	SAMPLE	10/29/00	1724
16	237815	EB-4_1.5-2	pr026322.d	SAMPLE	10/29/00	1755
17	237825	RC-1_2nd_Flr	pr026323.d	SAMPLE	10/29/00	1826
18	237826	RC-2_3rd_Flr	pr026324.d	SAMPLE	10/29/00	1858
19	237828	RC-4_4th_Flr	pr026325.d	SAMPLE	10/29/00	1929
20	237829	ES-1_ElShaft_4	pr026326.d	SAMPLE	10/29/00	2001
21	237839	EB-4_16-16.5	pr026327.d	SAMPLE	10/29/00	2032
22	237827	RC-3_3rd_Flr	pr026328.d	SAMPLE	10/29/00	2103

GC ORGANICS ANALYTICAL SEQUENCE SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-608 Primary Column

	Lab Sample ID	Client Sample ID	Lab File ID	Sample Type	Inj. Date	Inj. Time
1	1016/1260-1000a		pr026342.d	CALIB_3	10/30/00	1514
2	1016/1260-100a		pr026343.d	CALIB_1	10/30/00	1546
3	1016/1260-500a		pr026344.d	CALIB_2	10/30/00	1617
4	1016/1260-1500a		pr026345.d	CALIB_4	10/30/00	1649
5	1016/1260-2500a		pr026346.d	CALIB_5	10/30/00	1720
6	1221-1000a		pr026347.d	CALIB_3	10/30/00	1751
7	1232-1000a		pr026348.d	CALIB_3	10/30/00	1823
8	1242-1000a		pr026349.d	CALIB_3	10/30/00	1854
9	1248-1000a		pr026350.d	CALIB_3	10/30/00	1926
10	1254-1000a		pr026351.d	CALIB_3	10/30/00	1957
11	1262-1000a		pr026352.d	CALIB_3	10/30/00	2028
12	1268-1000a		pr026353.d	CALIB_3	10/30/00	2100
13	1016/1260-1000a		pr026379.d	CCALIB_3	10/31/00	1818
14	SP305A		pr026380.d	BLANK	10/31/00	2058
15	237820	TPE-3	pr026391.d	SAMPLE	11/01/00	0244
16	1016/1260-1000b		pr026393.d	CCALIB_3	11/01/00	0416

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-608 Primary Column

Midpoint Calibration File:

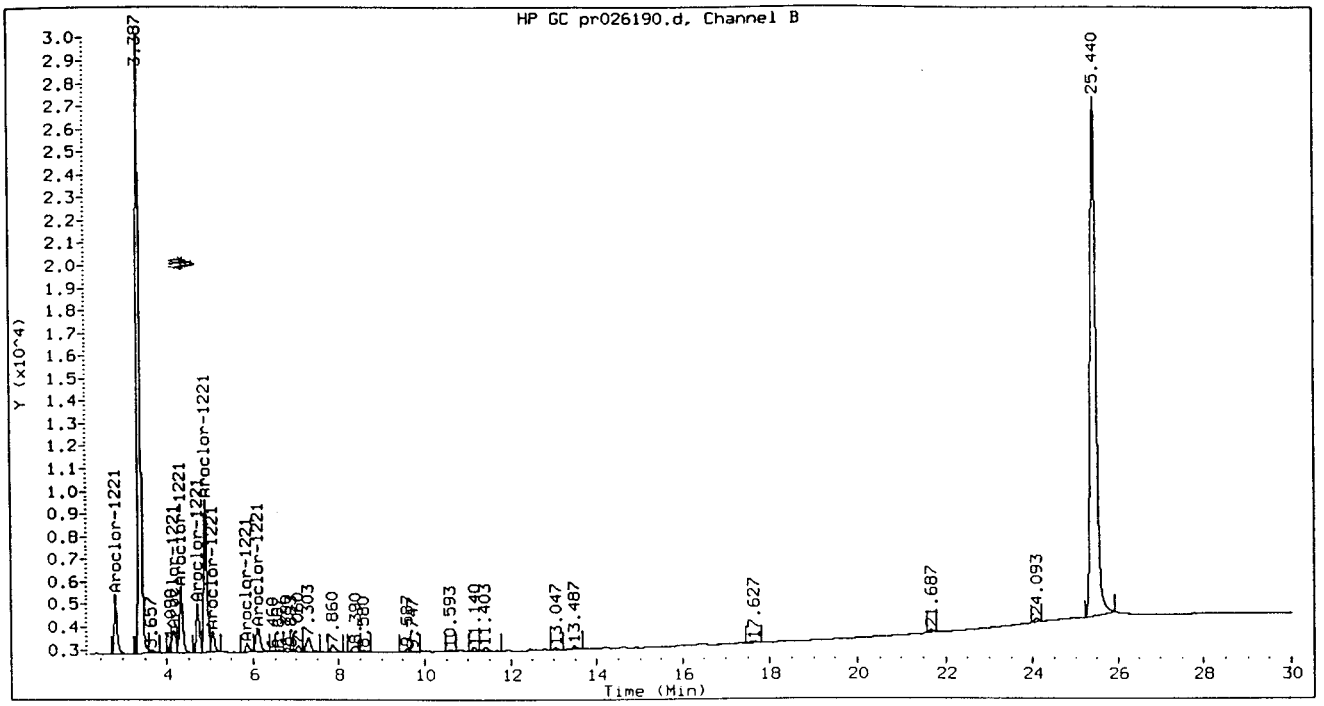
/chem1/PESTGC5.i/8082/rear/Oct00/10-24-00/24oct00c.b/pr026190.d

Compound	Midpoint Standard Response Factor
Aroclor-1221	12.20
2	5.56
3	14.69
4	10.36
5	34.24
6	4.57
7	2.34
8	7.77

Comments:

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-24-00/24oct00c.b/pr026190.d Page 1
Report Date 10/24/2000 22:42



Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-24-00/24oct00c.b/Pr8082.m
Sample Info : 1221-1000c
Lab ID : 1221-1000c
Inj Date : 24-OCT-2000 15:55
Operator : SUEZ 12/10/24/00
Cpnd Sublist: AR12210
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1221	(M)	2.827	2.827	0.000	12202	1000.000	1000.000
(2)		4.163	4.163	0.000	5557	1000.000	1000.000
(3)		4.330	4.330	0.000	14692	1000.000	1000.000
(4)		4.727	4.727	0.000	10363	1000.000	1000.000
(5)		4.903	4.903	0.000	34238	1000.000	1000.000
(6)		5.077	5.077	0.000	4569	1000.000	1000.000
(7)		5.853	5.853	0.000	2340	1000.000	1000.000
(8)		6.107	6.107	0.000	7768	1000.000	1000.000

Average of peak concentrations: 1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-5 Confirmatory Column

Midpoint Calibration File:

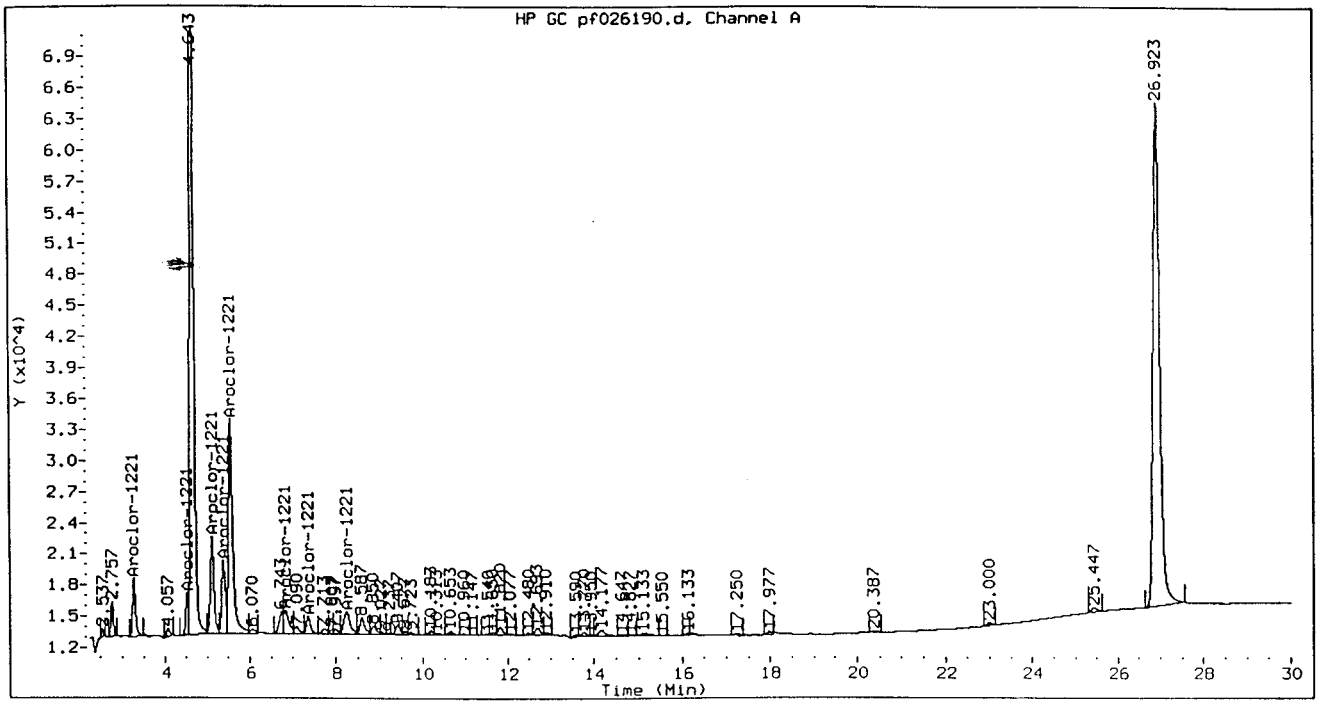
/chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/pf026190.d

Compound	Midpoint Standard Response Factor
Aroclor-1221	26.48
2	16.60
3	56.75
4	42.82
5	148.63
6	18.57
7	10.41
8	20.14

Comments:

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/pf026190.d Page 1
Report Date 10/24/2000 22:46



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/Pf8082.m
Sample Info : 1221-1000c
Lab ID : 1221-1000c
Inj Date : 24-OCT-2000 15:55
Operator : SUEZ 10/24/00
Cpnd Sublist: AR12210
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1221	(M)	3.257	3.257	0.000	26480	1000.000	1000.000
(2)		4.520	4.520	0.000	16599	1000.000	1000.000
(3)		5.107	5.107	0.000	56754	1000.000	1000.000
(4)		5.377	5.377	0.000	42824	1000.000	1000.000
(5)		5.543	5.543	0.000	148626	1000.000	1000.000
(6)		6.837	6.837	0.000	18569	1000.000	1000.000
(7)		7.360	7.360	0.000	10408	1000.000	1000.000
(8)		8.243	8.243	0.000	20137	1000.000	1000.000

Average of peak concentrations: 1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-608 Primary Column

Midpoint Calibration File:

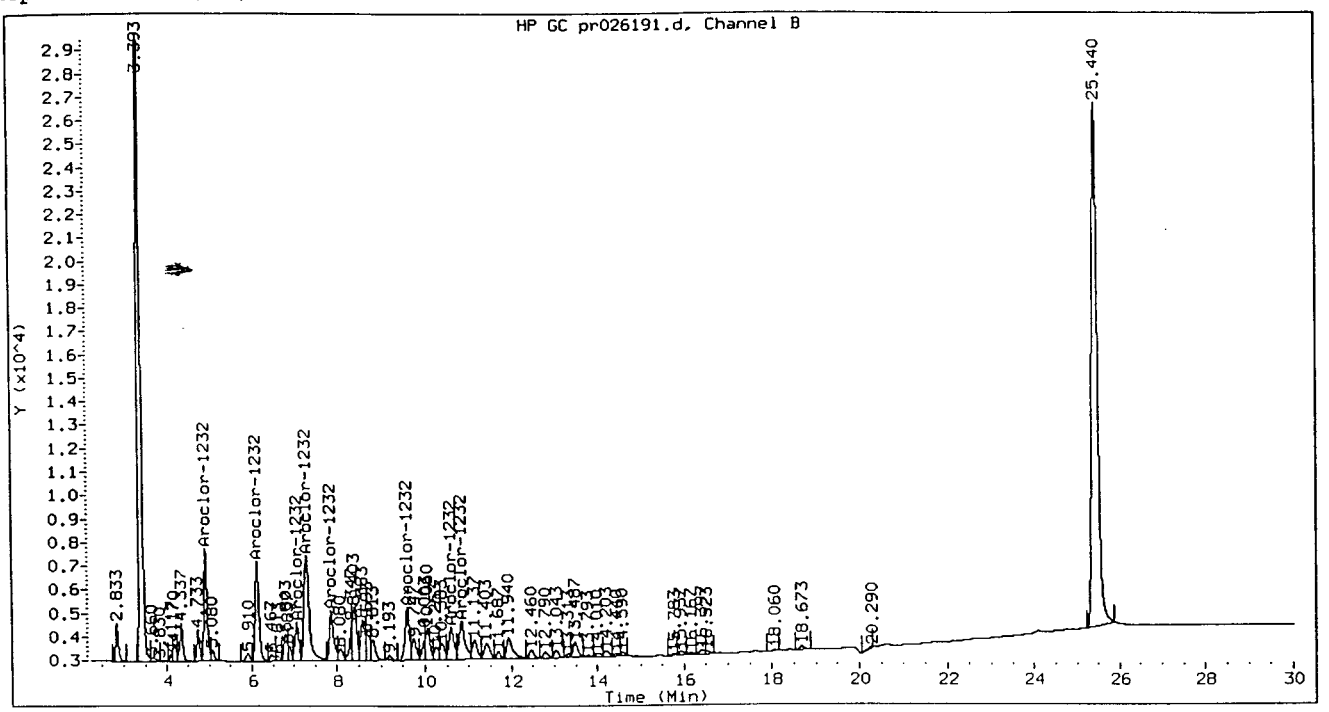
/chem1/PESTGC5.i/8082/rear/Oct00/10-24-00/24oct00c.b/pr026191.d

Compound		Midpoint Standard Response Factor
Aroclor-1232		24.11
	2	26.58
	3	10.20
	4	39.07
	5	14.54
	6	15.13
	7	10.74
	8	14.83

Comments:

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-24-00/24oct00c.b/pr026191.d Page 1
Report Date 10/24/2000 22:42



Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-24-00/24oct00c.b/Pr8082.m
Sample Info : 1232-1000c
Lab ID : 1232-1000c
Inj Date : 24-OCT-2000 16:27
Operator : SUEZ 10/24/00
Cpnd Sublist: AR12320

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1232	(M)	4.913	4.913	0.000	24106	1000.000	1000.000
(2)		6.123	6.123	0.000	26580	1000.000	1000.000
(3)		7.070	7.070	0.000	10197	1000.000	1000.000
(4)		7.303	7.303	0.000	39071	1000.000	1000.000
(5)		7.860	7.860	0.000	14545	1000.000	1000.000
(6)		9.597	9.597	0.000	15134	1000.000	1000.000
(7)		10.593	10.593	0.000	10739	1000.000	1000.000
(8)		10.833	10.833	0.000	14831	1000.000	1000.000

Average of peak concentrations: 1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-5 Confirmatory Column

Midpoint Calibration File:

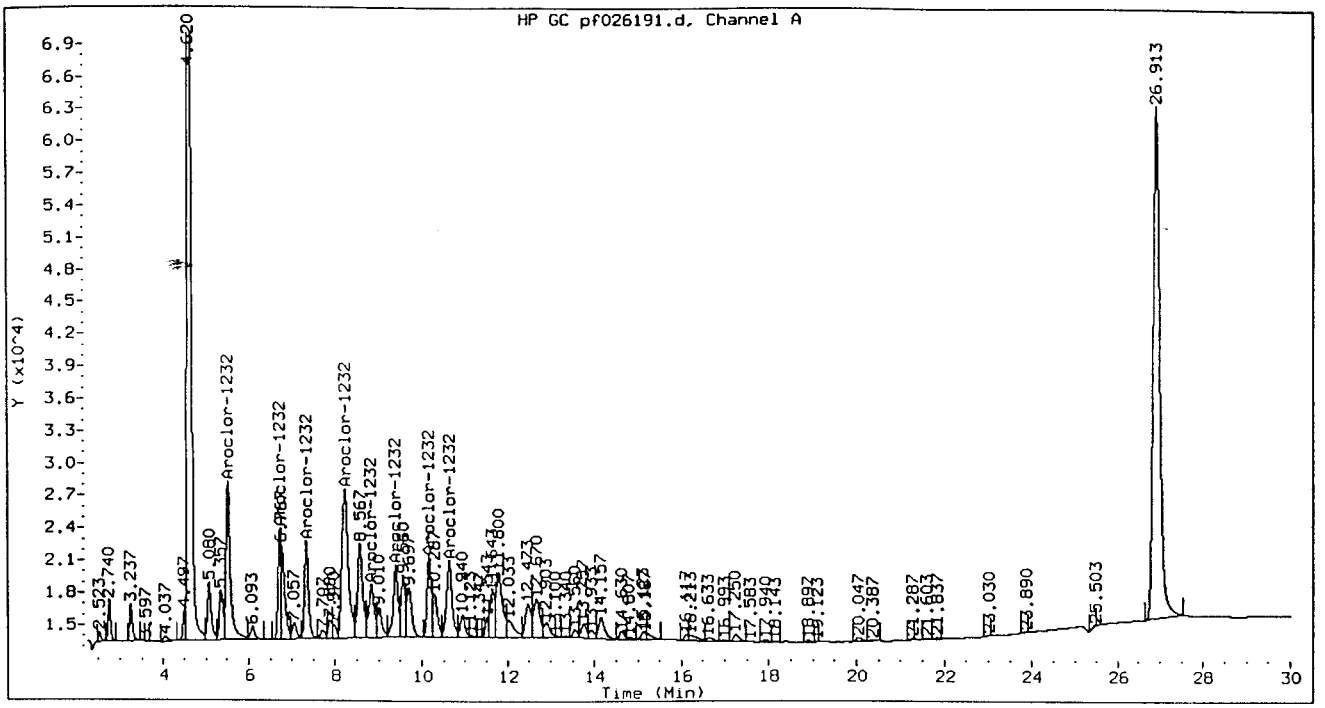
/chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/pf026191.d

Compound	Midpoint Standard Response Factor
Aroclor-1232	105.11
2	54.87
3	57.61
4	142.07
5	40.85
6	50.53
7	49.78
8	63.54

Comments:

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/pf026191.d Page 1
Report Date 10/24/2000 22:46



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/Pf8082.m
Sample Info : 1232-1000c
Lab ID : 1232-1000c
Inj Date : 24-OCT-2000 16:27
Operator : SUEZ 10/24/00
Cpnd Sublist: AR12320
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1232	(M)	5.520	5.520	0.000	105106	1000.000	1000.000
(2)		6.727	6.727	0.000	54868	1000.000	1000.000
(3)		7.333	7.333	0.000	57609	1000.000	1000.000
(4)		8.220	8.220	0.000	142067	1000.000	1000.000
(5)		8.827	8.827	0.000	40850	1000.000	1000.000
(6)		9.387	9.387	0.000	50527	1000.000	1000.000
(7)		10.160	10.160	0.000	49780	1000.000	1000.000
(8)		10.630	10.630	0.000	63542	1000.000	1000.000

Average of peak concentrations: 1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-608 Primary Column

Midpoint Calibration File:

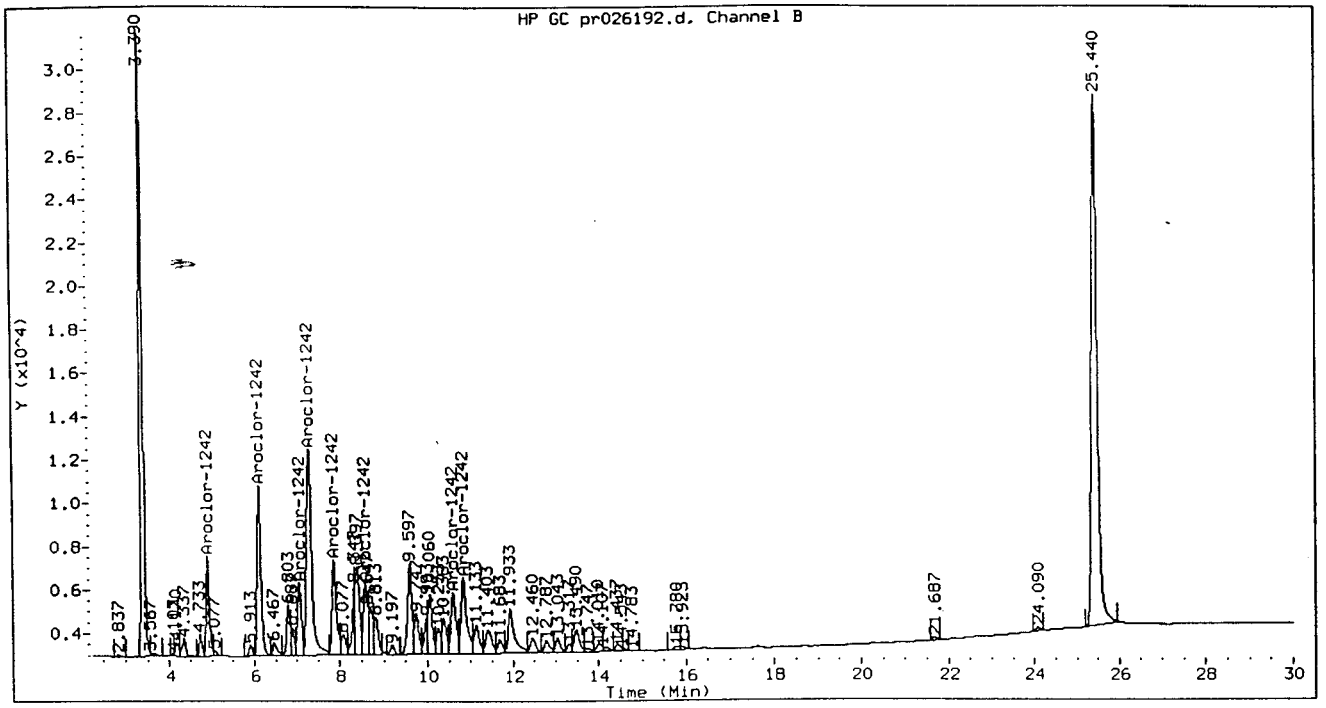
/chem1/PESTGC5.i/8082/rear/Oct00/10-24-00/24oct00c.b/pr026192.d

Compound	Midpoint Standard Response Factor
Aroclor-1242	23.27
2	49.41
3	20.95
4	82.37
5	30.80
6	21.05
7	22.64
8	32.06

Comments:

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-24-00/24oct00c.b/pr026192.d Page 1
Report Date 10/24/2000 22:42



Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-24-00/24oct00c.b/Pr8082.m
Sample Info : 1242-1000c
Lab ID : 1242-1000c
Inj Date : 24-OCT-2000 16:58
Operator : SUEZ 57 10/24/00
Cpnd Sublist: AR12420

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1242	(M)	4.910	4.910	0.000	23274	1000.000	1000.000
(2)		6.123	6.123	0.000	49415	1000.000	1000.000
(3)		7.067	7.067	0.000	20955	1000.000	1000.000
(4)		7.303	7.303	0.000	82372	1000.000	1000.000
(5)		7.860	7.860	0.000	30803	1000.000	1000.000
(6)		8.583	8.583	0.000	21047	1000.000	1000.000
(7)		10.593	10.593	0.000	22637	1000.000	1000.000
(8)		10.830	10.830	0.000	32059	1000.000	1000.000

Average of peak concentrations: 1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-5 Confirmatory Column

Midpoint Calibration File:

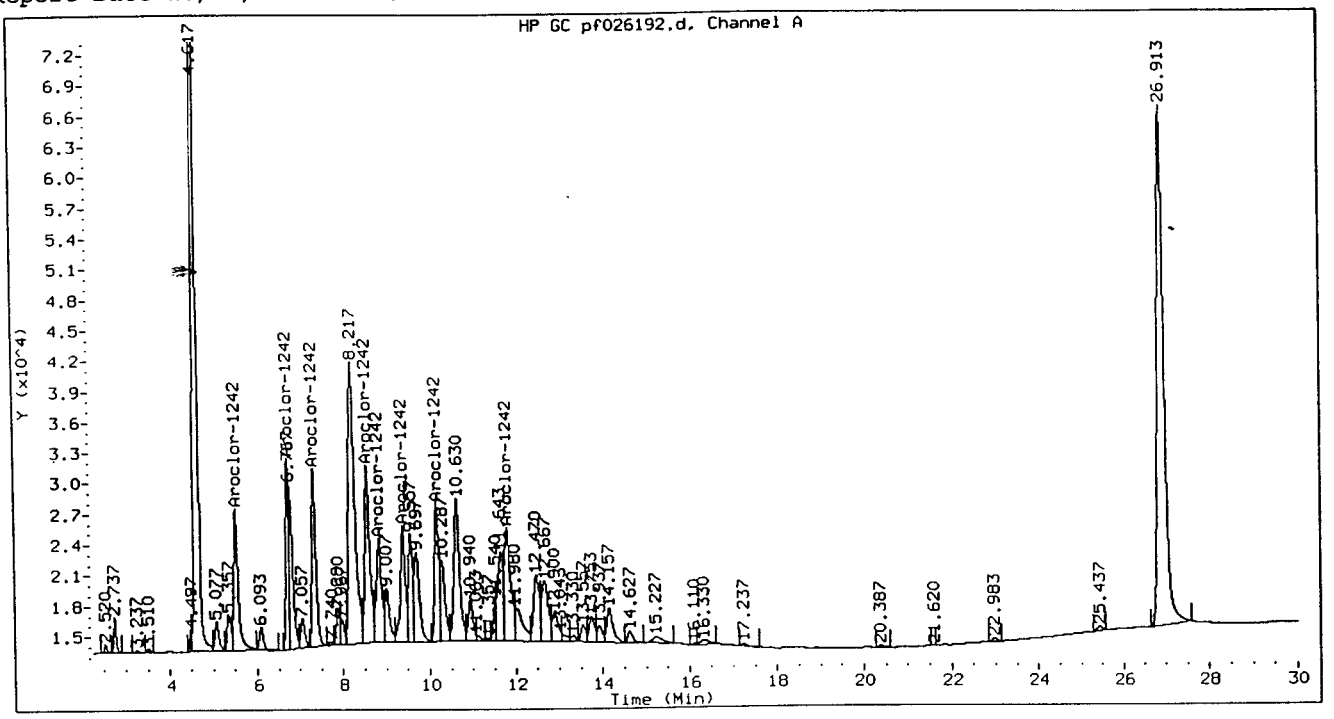
/chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/pf026192.d

Compound	Midpoint Standard Response Factor
Aroclor-1242	96.94
2	101.05
3	111.95
4	141.68
5	83.39
6	87.28
7	94.73
8	117.74

Comments:

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/pf026192.d Page 1
Report Date 10/24/2000 22:46



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/Pf8082.m
Sample Info : 1242-1000c
Lab ID : 1242-1000c
Inj Date : 24-OCT-2000 16:58
Operator : SUEZ 10/24/00
Cpnd Sublist: AR12420

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1242	(M)	5.517	5.517	0.000	96940	1000.000	1000.000
(2)		6.723	6.723	0.000	101046	1000.000	1000.000
(3)		7.330	7.330	0.000	111952	1000.000	1000.000
(4)		8.560	8.560	0.000	141675	1000.000	1000.000
(5)		8.830	8.830	0.000	83385	1000.000	1000.000
(6)		9.387	9.387	0.000	87279	1000.000	1000.000
(7)		10.160	10.160	0.000	94730	1000.000	1000.000
(8)		11.797	11.797	0.000	117744	1000.000	1000.000

Average of peak concentrations: 1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-608 Primary Column

Midpoint Calibration File:

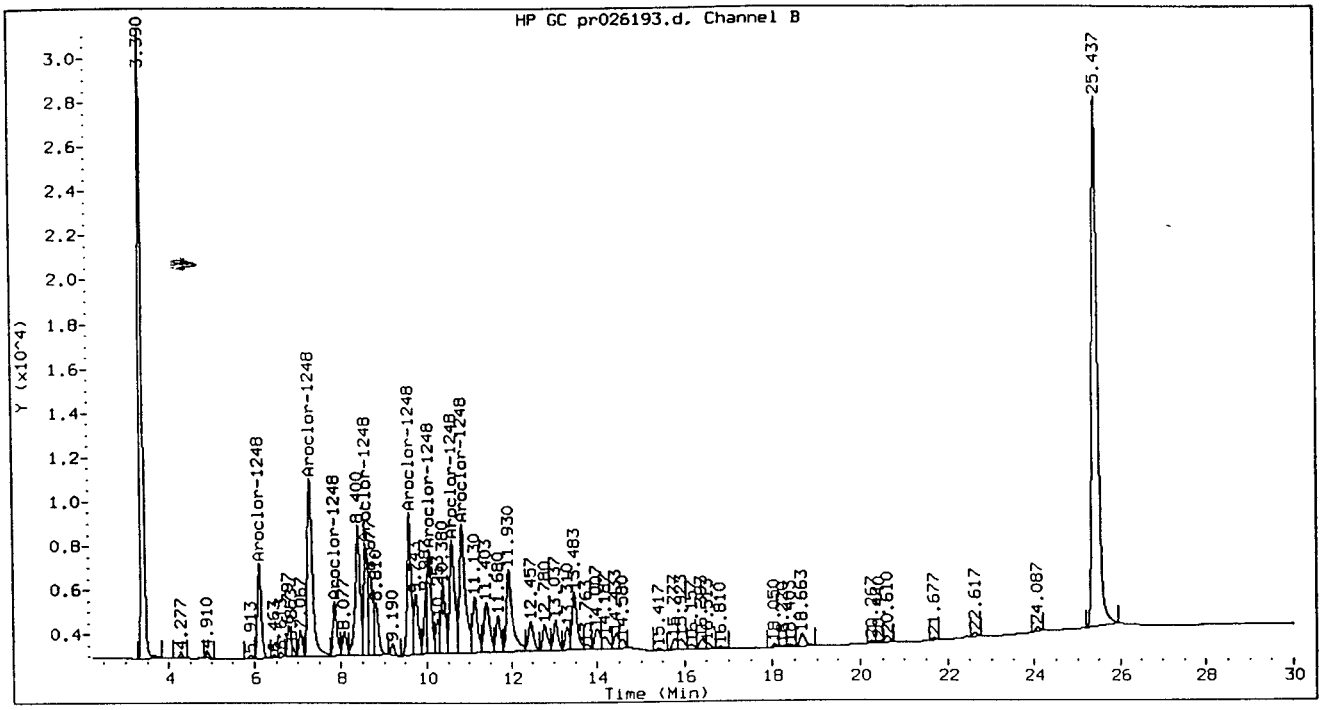
/chem1/PESTGC5.i/8082/rear/Oct00/10-24-00/24oct00c.b/pr026193.d

Compound		Midpoint Standard Response Factor
Aroclor-1248		25.86
	2	67.14
	3	15.31
	4	31.71
	5	42.91
	6	32.87
	7	41.57
	8	54.84

Comments:

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-24-00/24oct00c.b/pr026193.d Page 1
Report Date 10/24/2000 22:42



Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-24-00/24oct00c.b/Pr8082.m
Sample Info : 1248-1000c
Lab ID : 1248-1000c
Inj Date : 24-OCT-2000 17:30
Operator : SUEZ 52/0/24/00
Cpnd Sublist: AR12480

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/kg)
Aroclor-1248	(M)	6.120	6.120	0.000	25864	1000.000	1000.000
(2)		7.297	7.297	0.000	67145	1000.000	1000.000
(3)		7.857	7.857	0.000	15310	1000.000	1000.000
(4)		8.577	8.577	0.000	31715	1000.000	1000.000
(5)		9.593	9.593	0.000	42915	1000.000	1000.000
(6)		10.057	10.057	0.000	32868	1000.000	1000.000
(7)		10.590	10.590	0.000	41566	1000.000	1000.000
(8)		10.827	10.827	0.000	54839	1000.000	1000.000

Average of peak concentrations: 1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-5 Confirmatory Column

Midpoint Calibration File:

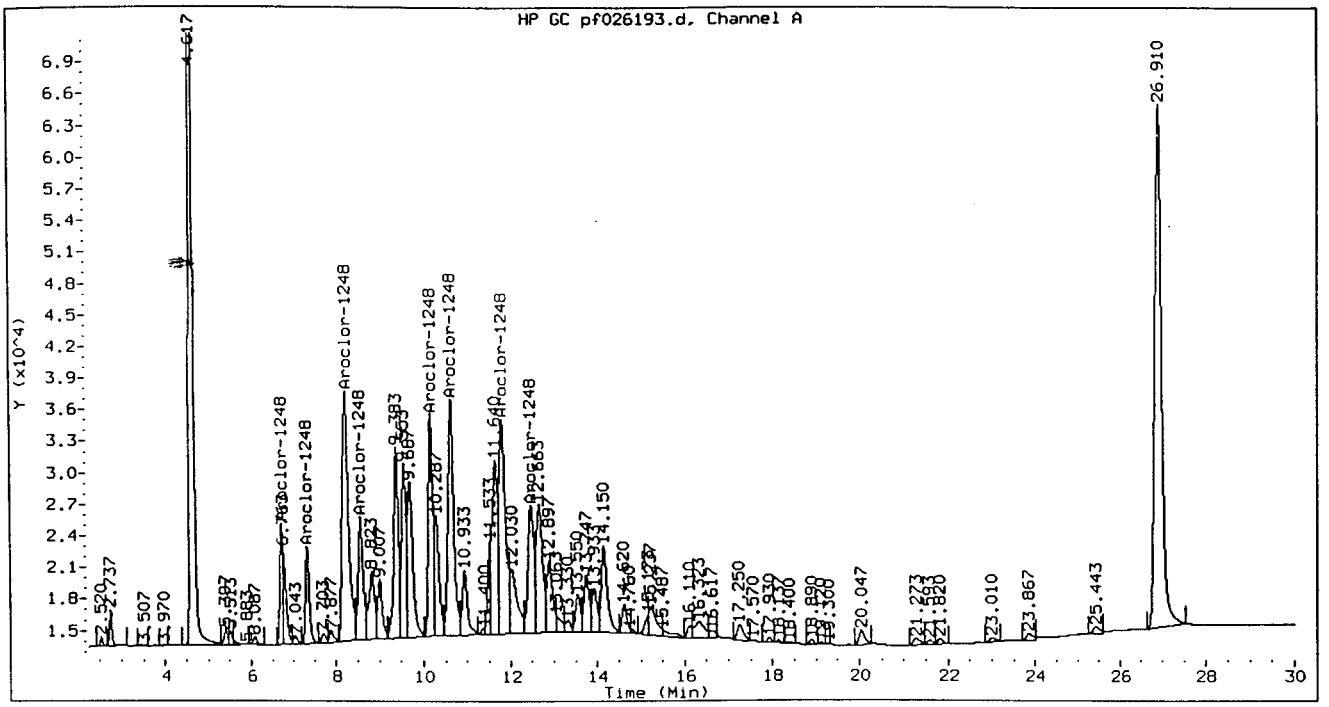
/chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/pf026193.d

Compound	Midpoint Standard Response Factor
Aroclor-1248	60.39
2	58.19
3	244.35
4	93.73
5	153.46
6	207.72
7	222.17
8	115.26

Comments:

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/pf026193.d Page 1
Report Date 10/24/2000 22:46



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/Pf8082.m
Sample Info : 1248-1000c
Lab ID : 1248-1000c
Inj Date : 24-OCT-2000 17:30
Operator : SUEZ 11/10/24/00
Cpnd Sublist: AR12480
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1248	(M)	6.720	6.720	0.000	60393	1000.000	1000.000
(2)		7.327	7.327	0.000	58187	1000.000	1000.000
(3)		8.217	8.217	0.000	244354	1000.000	1000.000
(4)		8.563	8.563	0.000	93731	1000.000	1000.000
(5)		10.157	10.157	0.000	153457	1000.000	1000.000
(6)		10.627	10.627	0.000	207718	1000.000	1000.000
(7)		11.793	11.793	0.000	222169	1000.000	1000.000
(8)		12.470	12.470	0.000	115263	1000.000	1000.000

Average of peak concentrations: 1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-608 Primary Column

Midpoint Calibration File:

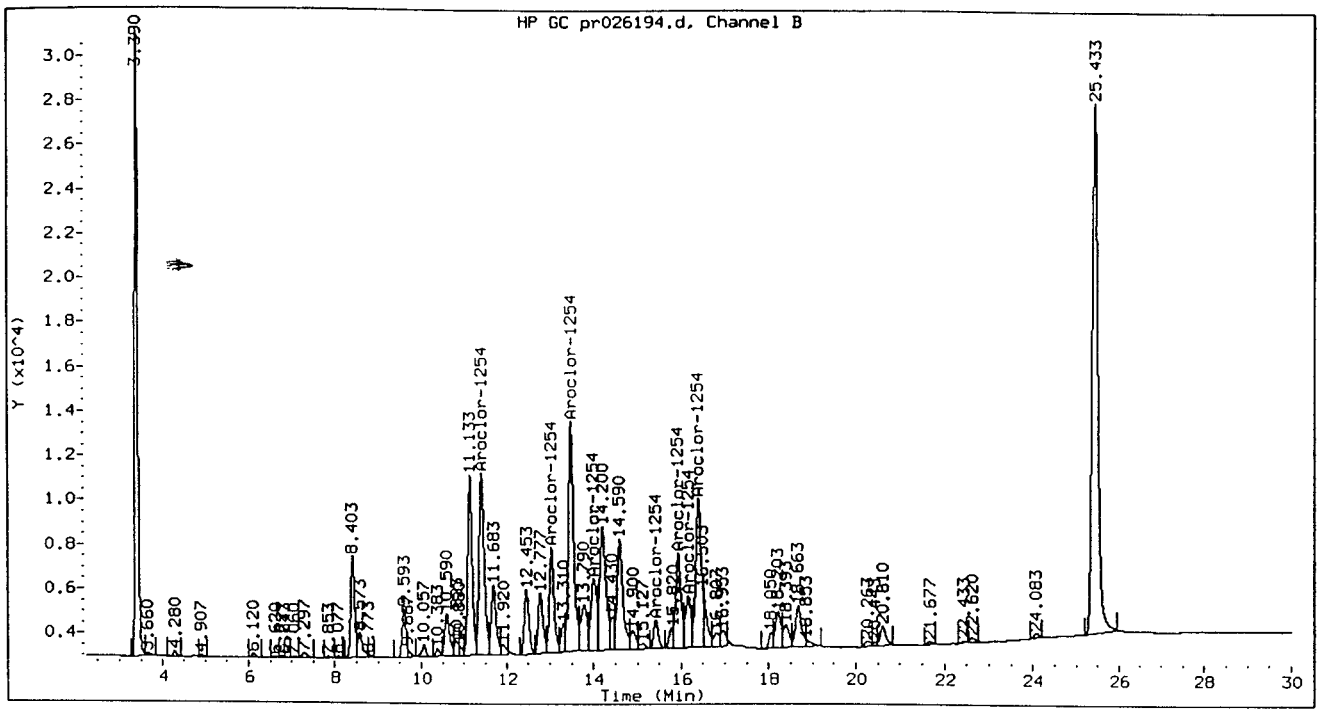
/chem1/PESTGC5.i/8082/rear/Oct00/10-24-00/24oct00c.b/pr026194.d

Compound		Midpoint Standard Response Factor
Aroclor-1254		69.15
	2	36.05
	3	87.18
	4	28.76
	5	9.86
	6	36.18
	7	20.40
	8	59.04

Comments:

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-24-00/24oct00c.b/pr026194.d Page 1
Report Date 10/24/2000 22:42



Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-24-00/24oct00c.b/Pr8082.m
Sample Info : 1254-1000c
Lab ID : 1254-1000c
Inj Date : 24-OCT-2000 18:01
Operator : SUEZ 10/24/00
Cpnd Sublist: AR12540

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1254	(M)	11.393	11.393	0.000	69154	1000.000	1000.000
(2)		13.037	13.037	0.000	36055	1000.000	1000.000
(3)		13.480	13.480	0.000	87182	1000.000	1000.000
(4)		14.000	14.000	0.000	28761	1000.000	1000.000
(5)		15.417	15.417	0.000	9859	1000.000	1000.000
(6)		15.933	15.933	0.000	36178	1000.000	1000.000
(7)		16.163	16.163	0.000	20397	1000.000	1000.000
(8)		16.393	16.393	0.000	59038	1000.000	1000.000

Average of peak concentrations: 1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-5 Confirmatory Column

Midpoint Calibration File:

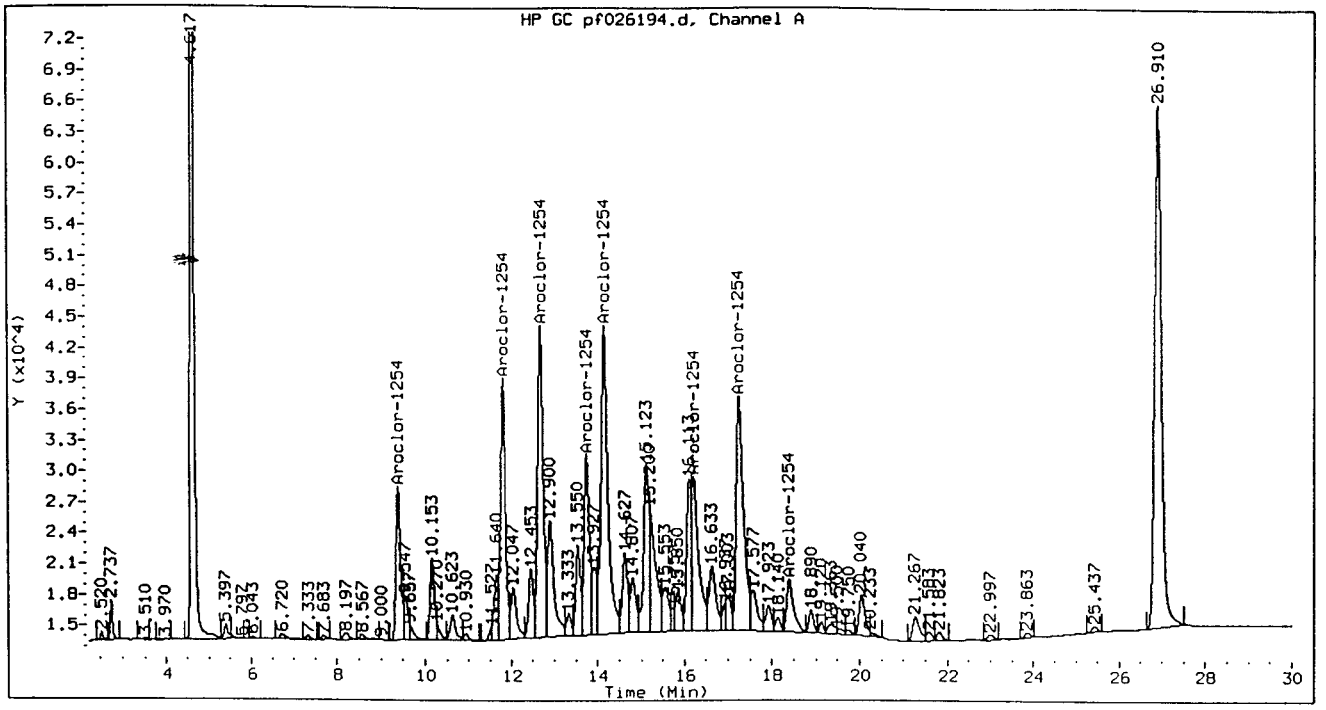
/chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/pf026194.d

Compound	Midpoint Standard Response Factor
Aroclor-1254	107.73
2	215.31
3	275.07
4	151.22
5	331.41
6	166.50
7	268.83
8	54.16

Comments:

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/pf026194.d Page 1
Report Date 10/24/2000 22:46



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/Pf8082.m
Sample Info : 1254-1000c
Lab ID : 1254-1000c
Inj Date : 24-OCT-2000 18:01
Operator : SUEZ 10/24/00
Cpnd Sublist: AR12540

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1254	(M)	9.383	9.383	0.000	107732	1000.000	1000.000
(2)		11.793	11.793	0.000	215308	1000.000	1000.000
(3)		12.670	12.670	0.000	275072	1000.000	1000.000
(4)		13.750	13.750	0.000	151215	1000.000	1000.000
(5)		14.153	14.153	0.000	331414	1000.000	1000.000
(6)		16.217	16.217	0.000	166499	1000.000	1000.000
(7)		17.253	17.253	0.000	268835	1000.000	1000.000
(8)		18.393	18.393	0.000	54159	1000.000	1000.000

Average of peak concentrations: 1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-608 Primary Column

Midpoint Calibration File:

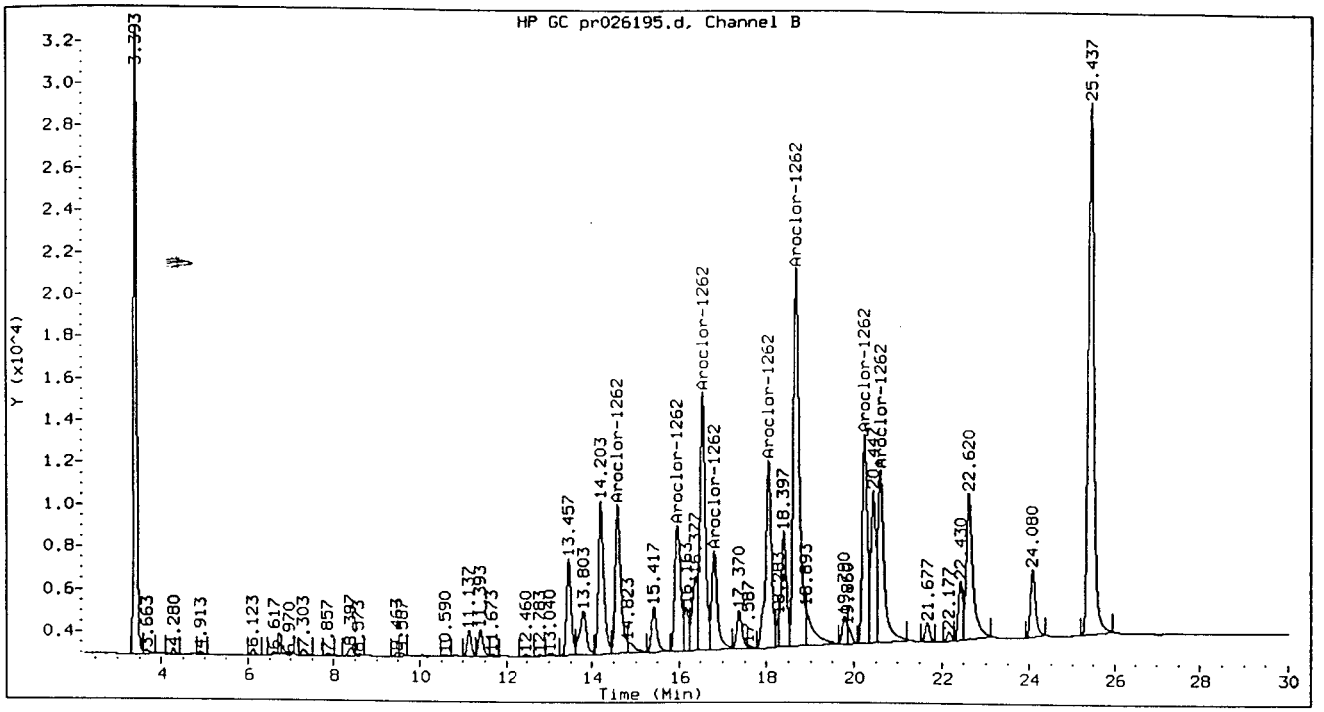
/chem1/PESTGC5_i/8082/rear/Oct00/10-24-00/24oct00c.b/pr026195.d

Compound		Midpoint Standard Response Factor
Aroclor-1262		62.73
	2	56.37
	3	104.73
	4	43.22
	5	81.26
	6	171.24
	7	79.89
	8	81.21

Comments:

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-24-00/24oct00c.b/pr026195.d Page 1
Report Date 10/24/2000 22:42



Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-24-00/24oct00c.b/Pr8082.m
Sample Info : 1262-1000c
Lab ID : 1262-1000c
Inj Date : 24-OCT-2000 18:32
Operator : SUEZ 10/24/00
Cpnd Sublist: AR12620

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1262	(M)	14.590	14.590	0.000	62734	1000.000	1000.000
(2)		15.957	15.957	0.000	56367	1000.000	1000.000
(3)		16.537	16.537	0.000	104727	1000.000	1000.000
(4)		16.807	16.807	0.000	43224	1000.000	1000.000
(5)		18.050	18.050	0.000	81262	1000.000	1000.000
(6)		18.667	18.667	0.000	171243	1000.000	1000.000
(7)		20.253	20.253	0.000	79895	1000.000	1000.000
(8)		20.607	20.607	0.000	81214	1000.000	1000.000

Average of peak concentrations: 1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-5 Confirmatory Column

Midpoint Calibration File:

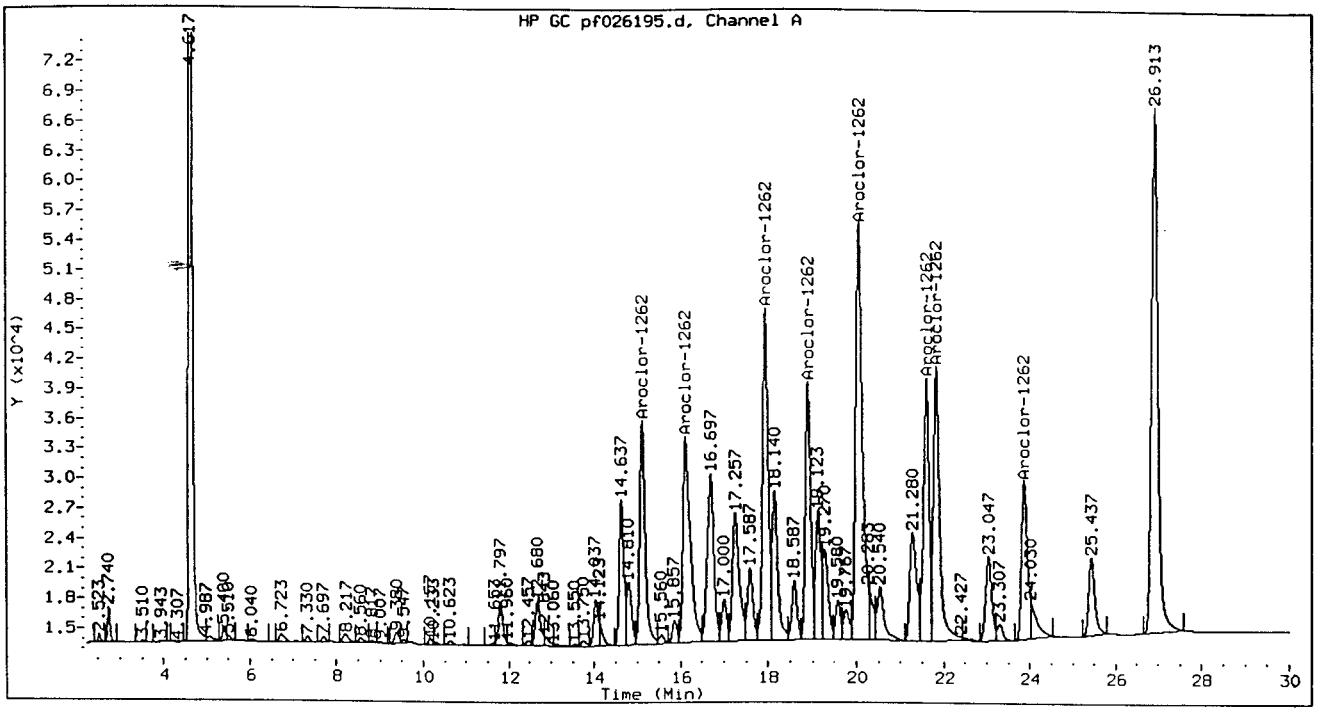
/chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/pf026195.d

Compound		Midpoint Standard Response Factor
Aroclor-1262		197.62
	2	243.53
	3	286.29
	4	214.24
	5	449.06
	6	234.34
	7	278.41
	8	156.94

Comments:

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/pf026195.d Page 1
Report Date 10/24/2000 22:46



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/Pf8082.m
Sample Info : 1262-1000c
Lab ID : 1262-1000c
Inj Date : 24-OCT-2000 18:32
Operator : SUEZ 10/24/00
Cpnd Sublist: AR12620

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1262	(M)	15.113	15.113	0.000	197615	1000.000	1000.000
(2)		16.110	16.110	0.000	243525	1000.000	1000.000
(3)		17.933	17.933	0.000	286289	1000.000	1000.000
(4)		18.890	18.890	0.000	214235	1000.000	1000.000
(5)		20.043	20.043	0.000	449062	1000.000	1000.000
(6)		21.600	21.600	0.000	234335	1000.000	1000.000
(7)		21.823	21.823	0.000	278412	1000.000	1000.000
(8)		23.863	23.863	0.000	156940	1000.000	1000.000

Average of peak concentrations: 1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-608 Primary Column

Midpoint Calibration File:

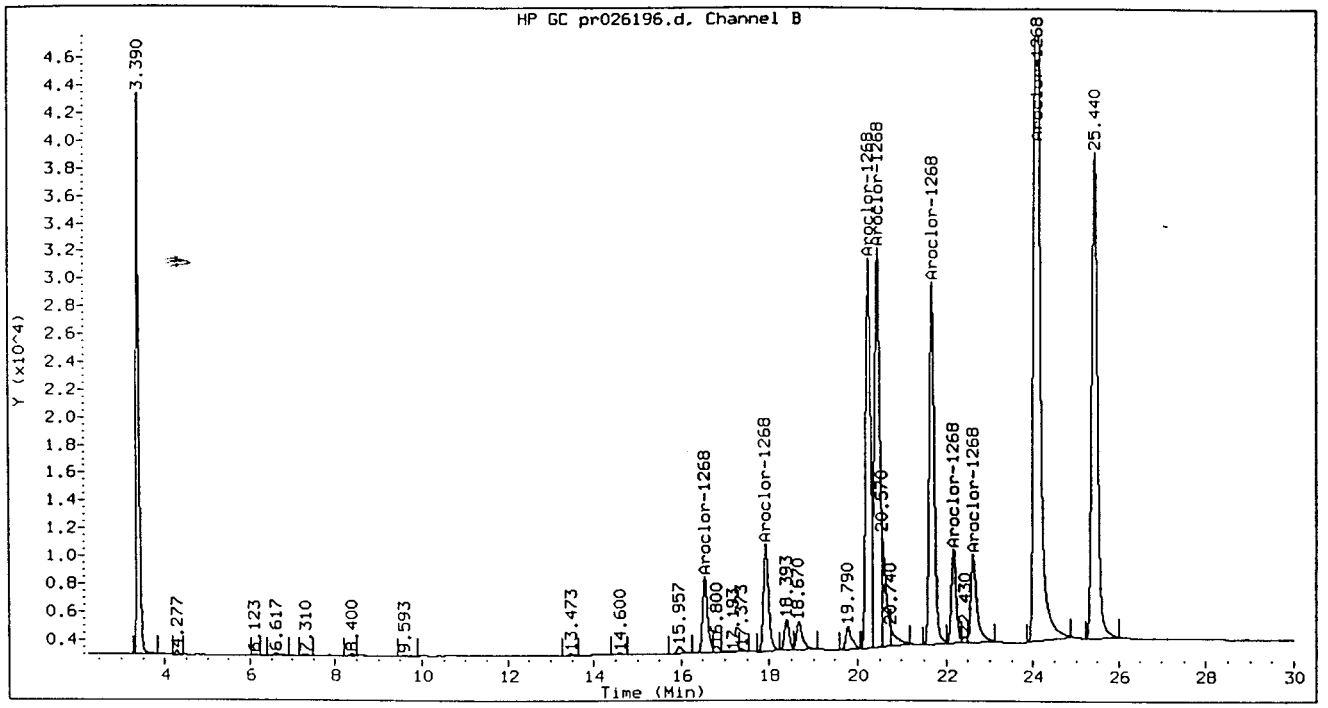
/chem1/PESTGC5_i/8082/rear/Oct00/10-24-00/24oct00c.b/pr026196.d

Compound	Midpoint Standard Response Factor
Aroclor-1268	43.52
2	62.43
3	218.60
4	235.44
5	202.91
6	50.93
7	62.05
8	607.03

Comments:

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-24-00/24oct00c.b/pr026196.d Page 1
Report Date 10/24/2000 22:42



Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-24-00/24oct00c.b/Pr8082.m
Sample Info : 1268-1000c
Lab ID : 1268-1000c
Inj Date : 24-OCT-2000 19:04
Operator : SUEZ SZ 10/24/00
Cpnd Sublist: AR12680

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1268	(M)	16.540	16.540	0.000	43516	1000.000	1000.000
(2)		17.920	17.920	0.000	62426	1000.000	1000.000
(3)		20.250	20.250	0.000	218600	1000.000	1000.000
(4)		20.457	20.457	0.000	235438	1000.000	1000.000
(5)		21.680	21.680	0.000	202912	1000.000	1000.000
(6)		22.180	22.180	0.000	50933	1000.000	1000.000
(7)		22.620	22.620	0.000	62051	1000.000	1000.000
(8)		24.090	24.090	0.000	607030	1000.000	1000.000

Average of peak concentrations: 1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-5 Confirmatory Column

Midpoint Calibration File:

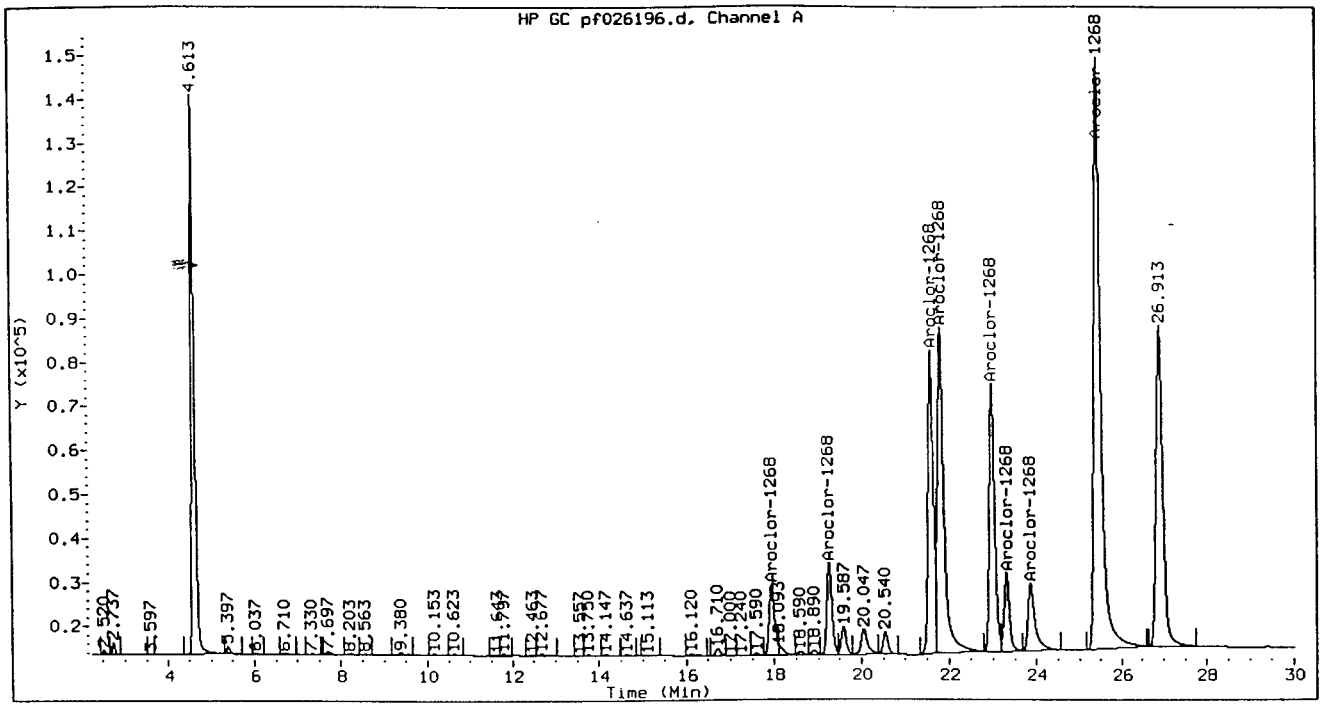
/chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/pf026196.d

Compound		Midpoint Standard Response Factor
Aroclor-1268		135.68
	2	170.59
	3	572.30
	4	776.71
	5	515.85
	6	151.57
	7	176.56
	8	1492.90

Comments:

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/pf026196.d Page 1
Report Date 10/24/2000 22:46



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/Pf8082.m
Sample Info : 1268-1000c
Lab ID : 1268-1000c
Inj Date : 24-OCT-2000 19:04
Operator : SUEZ 5z 10/24/00
Cpnd Sublist: AR12680
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1268	(M)	17.933	17.933	0.000	135677	1000.000	1000.000
(2)		19.260	19.260	0.000	170588	1000.000	1000.000
(3)		21.600	21.600	0.000	572304	1000.000	1000.000
(4)		21.820	21.820	0.000	776708	1000.000	1000.000
(5)		22.987	22.987	0.000	515854	1000.000	1000.000
(6)		23.313	23.313	0.000	151572	1000.000	1000.000
(7)		23.863	23.863	0.000	176560	1000.000	1000.000
(8)		25.440	25.440	0.000	1492903	1000.000	1000.000

Average of peak concentrations: 1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS INITIAL CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-608 Primary Column

Calibration Files:

/chem1/PESTGC5.i/8082/rear/Oct00/10-24-00/24oct00c.b/pr026197.d
/chem1/PESTGC5.i/8082/rear/Oct00/10-24-00/24oct00c.b/pr026198.d
/chem1/PESTGC5.i/8082/rear/Oct00/10-24-00/24oct00c.b/pr026199.d
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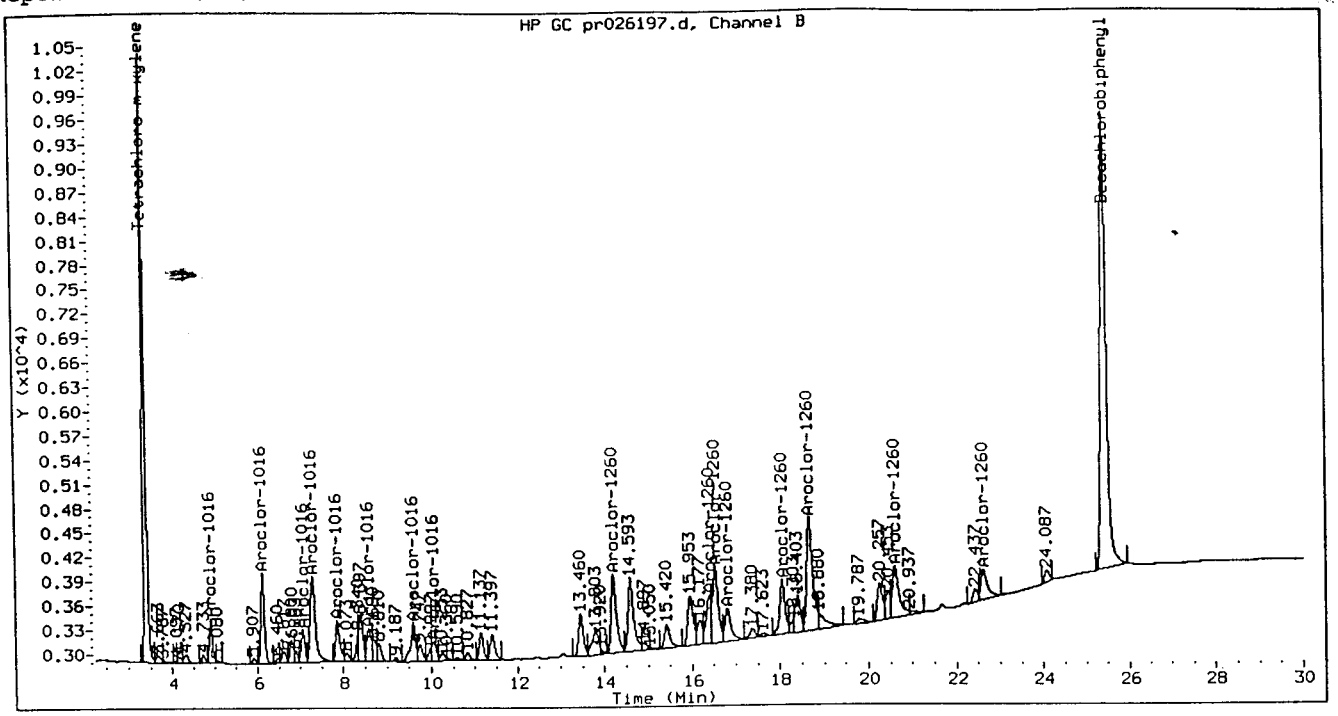
Compound		Level 1	Level 2	Level 3	Level 4	Level 5	Coefficients a0	a1	a2	%RSD or R^2
Aroclor-1016	1	26.85	28.68	29.08	26.59	25.89		27.42		5.06334
	2	65.55	65.37	66.37	58.88	57.97		62.83		6.44467
	3	23.86	25.53	28.55	25.32	26.62		25.98		6.70361
	4	90.03	99.40	112.15	102.32	106.71		102.12		8.12383
	5	33.47	36.51	41.79	37.35	40.13		37.85		8.55242
	6	25.89	28.25	30.09	26.11	27.49		27.56		6.23280
	7	37.33	34.48	38.65	34.78	35.17		36.08		5.04598
	8	16.44	18.20	21.41	19.35	20.11		19.10		9.88959
Aroclor-1260	1	83.77	84.70	87.60	79.93	79.14		83.03		4.21261
	2	47.73	53.77	60.27	59.88	60.75		56.48		10.02027
	3	82.81	82.81	86.14	77.13	78.31		81.44		4.52245
	4	39.56	41.98	45.15	38.59	40.84		41.22		6.16522
	5	56.58	60.98	65.72	61.95	63.73		61.79		5.55224
	6	135.42	149.24	166.02	158.73	163.30		154.54		8.05466
	7	66.88	72.99	79.35	76.95	81.26		75.49		7.57327
	8	40.55	42.67	48.50	48.04	49.76		45.91		8.80518
Tetrachloro-m-xylene		1175.04	1257.28	1446.92	1446.56	1480.41		1361.24		10.01227
Decachlorobiphenyl		2033.44	2011.02	2155.69	2096.36	2063.14		2071.93		2.73888

Comments:

* = %RSD exceeded maximum upper limit. Linear regression used for quantitation.

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-24-00/24oct00c.b/pr026197.d Page 1
Report Date 10/24/2000 22:42



Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-24-00/24oct00c.b/Pr8082.m
Sample Info : 1016/1260-100c
Lab ID : 1016/1260-100c
Inj Date : 24-OCT-2000 19:35
Operator : SUEZ SZ 10/24/00
Cpnd Sublist: AR16600S

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_1

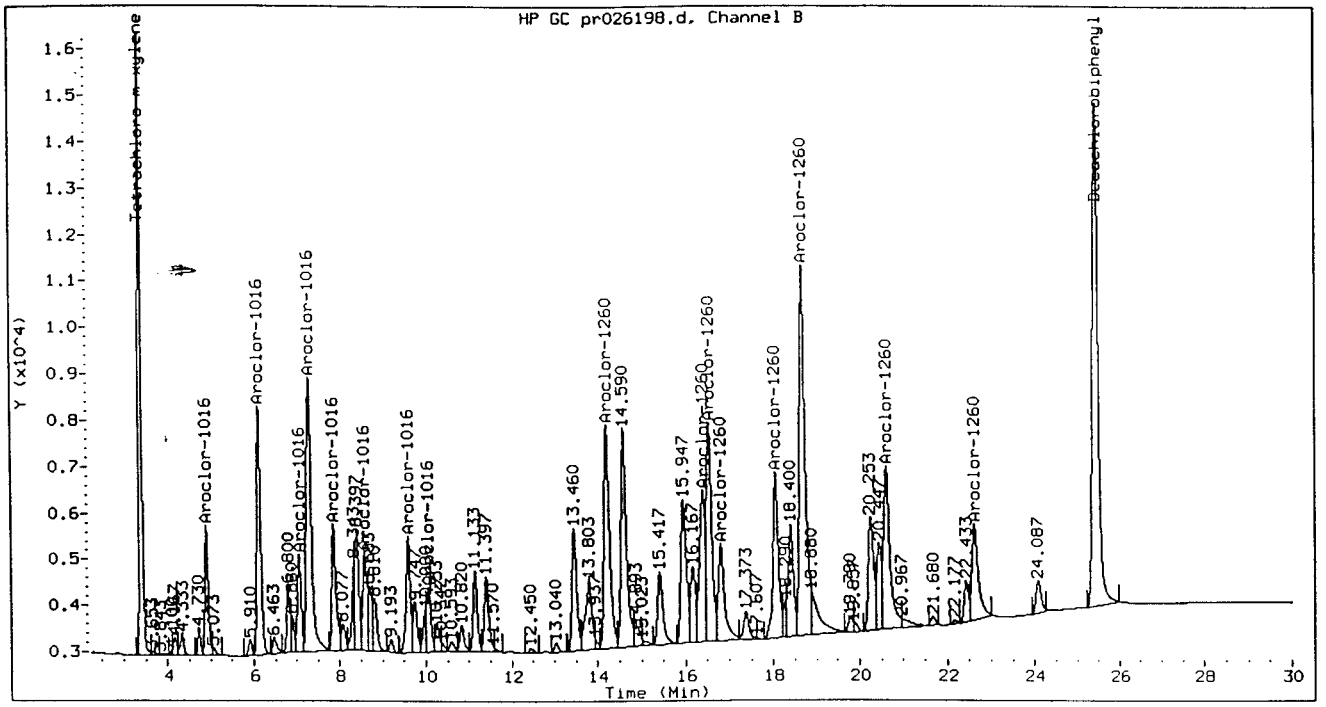
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1016	(M)	4.910	4.907	0.003	2685	100.000	100.000
(2)		6.123	6.120	0.003	6555	100.000	100.000
(3)		7.067	7.063	0.003	2386	100.000	100.000
(4)		7.300	7.300	0.000	9003	100.000	100.000
(5)		7.860	7.857	0.003	3347	100.000	100.000
(6)		8.580	8.580	0.000	2589	100.000	100.000
(7)		9.593	9.593	0.000	3733	100.000	100.000
(8)		10.053	10.053	0.000	1644	100.000	100.000
Average of peak concentrations:							100.00
Aroclor-1260	(M)	14.207	14.207	0.000	8377	100.000	100.000
(2)		16.393	16.393	0.000	4773	100.000	100.000
(3)		16.537	16.537	0.000	8281	100.000	100.000
(4)		16.810	16.807	0.003	3956	100.000	100.000
(5)		18.053	18.053	0.000	5658	100.000	100.000
(6)		18.673	18.670	0.003	13542	100.000	100.000

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/kg)
(7)		20.610	20.610	0.000	6688	100.000	100.000
(8)		22.623	22.620	0.003	4055	100.000	100.000
Average of peak concentrations:							100.00
Tetrachloro-m-xylene	(M)	3.390	3.390	0.000	29376	25.000	25.000
Decachlorobiphenyl	(M)	25.437	25.437	0.000	50836	25.000	25.000

COMMENTS:

M - Compound response manually integrated.

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-24-00/24oct00c.b/pr026198.d Page 1
Report Date 10/24/2000 22:42



Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-24-00/24oct00c.b/Pr8082.m
Sample Info : 1016/1260-500c
Lab ID : 1016/1260-500c
Inj Date : 24-OCT-2000 20:07
Operator : SUEZ 5210/24/00
Cpnd Sublist: AR16600S
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_2

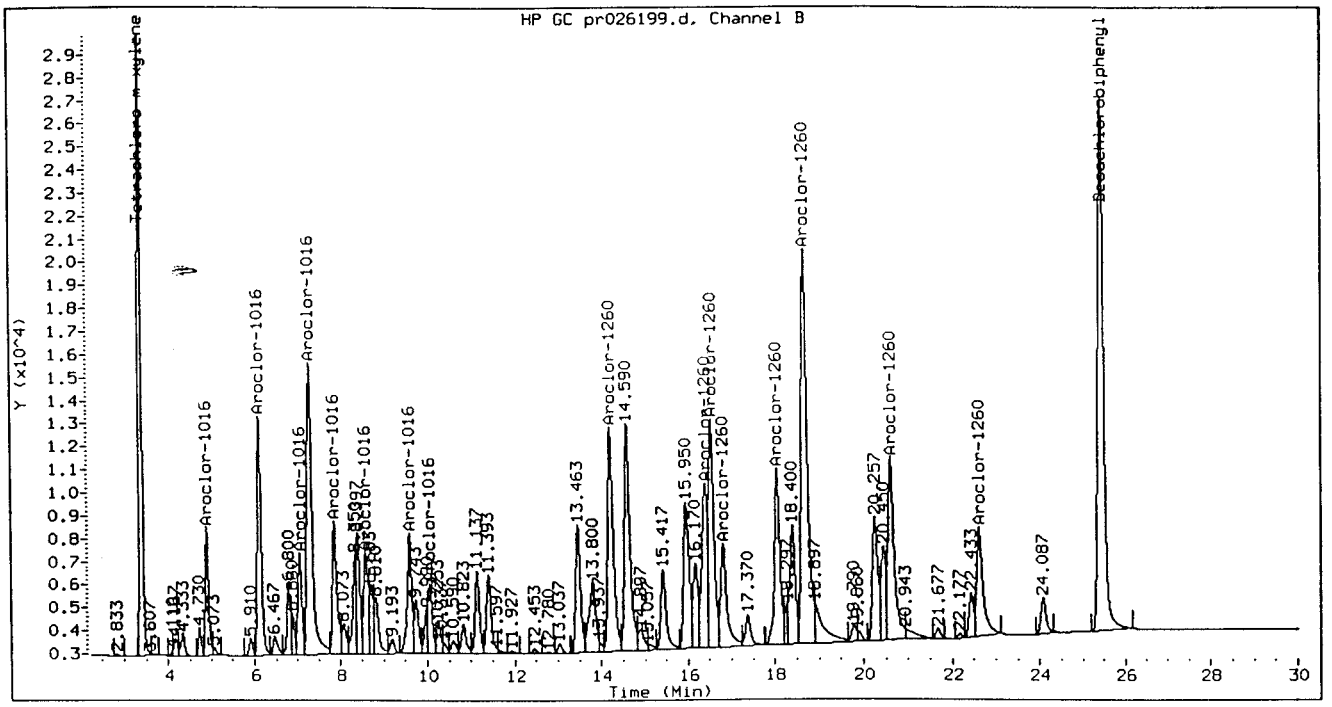
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1016	(M)	4.910	4.907	0.003	14341	516.495	516.495
(2)		6.120	6.120	0.000	32684	499.305	499.305
(3)		7.063	7.063	0.000	12764	516.887	516.887
(4)		7.300	7.300	0.000	49701	524.737	524.737
(5)		7.857	7.857	0.000	18256	521.734	521.734
(6)		8.580	8.580	0.000	14123	521.760	521.760
(7)		9.593	9.593	0.000	17240	480.156	480.156
(8)		10.057	10.053	0.003	9101	525.432	525.432
Average of peak concentrations:							510.00
Aroclor-1260	(M)	14.207	14.207	0.000	42349	502.754	502.754
(2)		16.393	16.393	0.000	26885	529.754	529.754
(3)		16.533	16.537	0.003	41407	500.012	500.012
(4)		16.807	16.807	0.000	20988	514.816	514.816
(5)		18.050	18.053	0.003	30489	518.706	518.706
(6)		18.670	18.670	0.000	74621	524.278	524.278

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/kg)
(7)		20.613	20.610	0.003	36495	521.842	521.842
(8)		22.620	22.620	0.000	21334	512.726	512.726
Average of peak concentrations:							520.00
Tetrachloro-m-xylene	(M)	3.390	3.390	0.000	62864	51.691	51.691
Decachlorobiphenyl	(M)	25.437	25.437	0.000	100551	49.723	49.723

COMMENTS:

M - Compound response manually integrated.

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-24-00/24oct00c.b/pr026199.d Page 1
Report Date 10/24/2000 22:42



Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-24-00/24oct00c.b/Pr8082.m
Sample Info : 1016/1260-1000c
Lab ID : 1016/1260-1000c
Inj Date : 24-OCT-2000 20:38
Operator : SUEZ 10/24/00
Cpnd Sublist: AR16600S
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

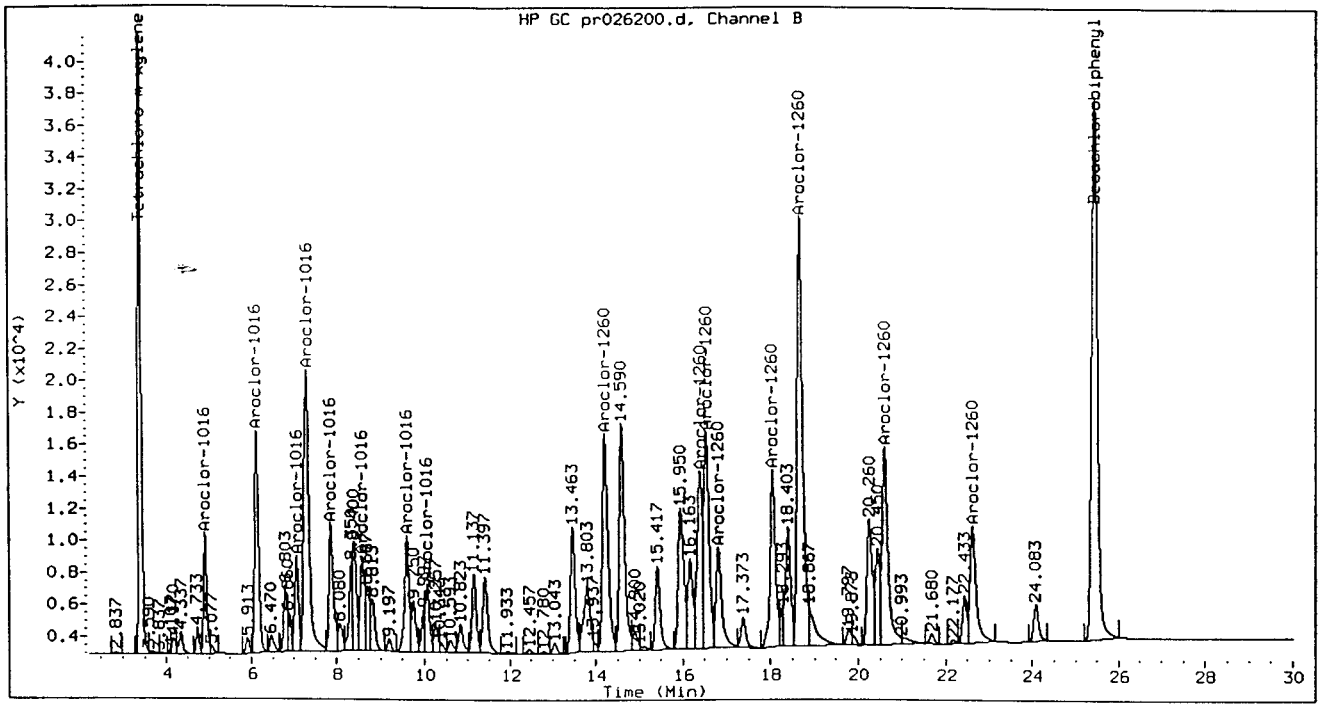
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/kg)
Aroclor-1016	(M)	4.907	4.907	0.000	29082	1031.106	1031.106
(2)		6.120	6.120	0.000	66368	1009.215	1009.215
(3)		7.063	7.063	0.000	28546	1098.853	1098.853
(4)		7.300	7.300	0.000	112152	1115.629	1115.629
(5)		7.857	7.857	0.000	41786	1121.591	1121.591
(6)		8.580	8.580	0.000	30095	1071.874	1071.874
(7)		9.593	9.593	0.000	38653	1049.754	1049.754
(8)		10.053	10.053	0.000	21405	1145.735	1145.735
Average of peak concentrations:							1100.00
Aroclor-1260	(M)	14.207	14.207	0.000	87598	1026.274	1026.274
(2)		16.393	16.393	0.000	60272	1117.721	1117.721
(3)		16.537	16.537	0.000	86138	1026.422	1026.422
(4)		16.807	16.807	0.000	45153	1069.225	1069.225
(5)		18.053	18.053	0.000	65724	1075.785	1075.785
(6)		18.670	18.670	0.000	166024	1105.142	1105.142

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
(7)		20.610	20.610	0.000	79354	1085.930	1085.930
(8)		22.620	22.620	0.000	48501	1104.647	1104.647
Average of peak concentrations:							1100.00
Tetrachloro-m-xylene	(M)	3.390	3.390	0.000	144692	111.897	111.897
Decachlorobiphenyl	(M)	25.437	25.437	0.000	215569	104.305	104.305

COMMENTS:

M - Compound response manually integrated.

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-24-00/24oct00c.b/pr026200.d Page 1
Report Date 10/24/2000 22:42



Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-24-00/24oct00c.b/Pr8082.m
Sample Info : 1016/1260-1500c
Lab ID : 1016/1260-1500c
Inj Date : 24-OCT-2000 21:09
Operator : SUEZ 10/24/00
Cpnd Sublist: AR16600S

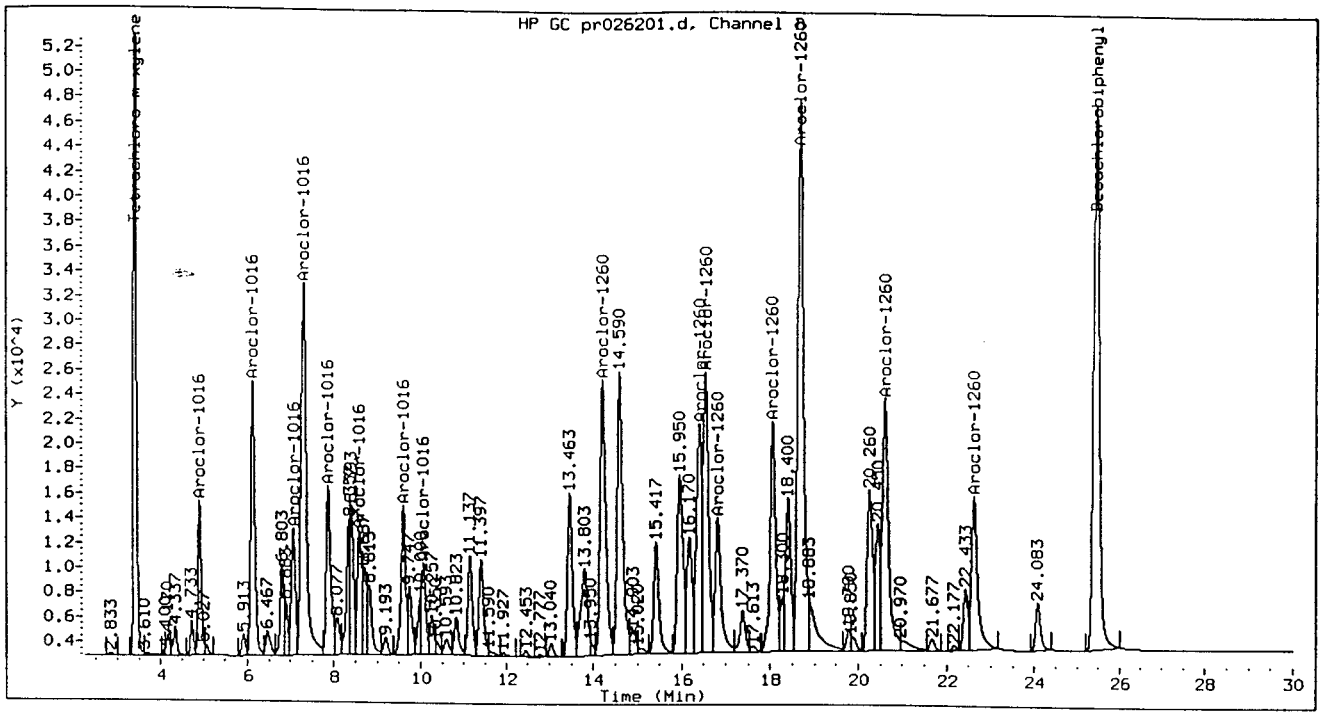
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_4

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1016	(M)	4.910	4.907	0.003	39885	1434.661	1434.661
(2)		6.123	6.120	0.003	88321	1379.118	1379.118
(3)		7.067	7.063	0.003	37983	1471.411	1471.411
(4)		7.307	7.300	0.007	153482	1519.980	1519.980
(5)		7.860	7.857	0.003	56026	1502.857	1502.857
(6)		8.583	8.580	0.003	39158	1419.587	1419.587
(7)		9.597	9.593	0.003	52170	1436.765	1436.765
(8)		10.060	10.053	0.007	29024	1539.810	1539.810
Average of peak concentrations:							1500.00
Aroclor-1260	(M)	14.207	14.207	0.000	119897	1427.357	1427.357
(2)		16.393	16.393	0.000	89821	1620.932	1620.932
(3)		16.533	16.537	0.003	115688	1407.023	1407.023
(4)		16.803	16.807	0.003	57890	1400.997	1400.997
(5)		18.053	18.053	0.000	92932	1515.793	1515.793
(6)		18.667	18.670	0.003	238093	1562.765	1562.765

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/kg)
(7)		20.607	20.610	0.003	115422	1558.851	1558.851
(8)		22.620	22.620	0.000	72064	1603.545	1603.545
Average of peak concentrations:							1500.00
Tetrachloro-m-xylene	(M)	3.393	3.390	0.003	216984	162.968	162.968
Decachlorobiphenyl		25.440	25.437	0.003	314454	151.608	151.608

COMMENTS:

M - Compound response manually integrated.



Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-24-00/24oct00c.b/Pr8082.m
Sample Info : 1016/1260-2500c
Lab ID : 1016/1260-2500c
Inj Date : 24-OCT-2000 21:41
Operator : SUEZ 6z 10/24/00
Cpnd Sublist: AR16600S

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_5

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1016	(M)	4.910	4.907	0.003	64725	2360.607	2360.607
(2)		6.123	6.120	0.003	144924	2306.706	2306.706
(3)		7.067	7.063	0.003	66556	2562.243	2562.243
(4)		7.303	7.300	0.003	266778	2612.313	2612.313
(5)		7.860	7.857	0.003	100325	2650.613	2650.613
(6)		8.583	8.580	0.003	68719	2493.000	2493.000
(7)		9.593	9.593	0.000	87926	2436.792	2436.792
(8)		10.060	10.053	0.007	50270	2631.818	2631.818
Average of peak concentrations:							2500.00
Aroclor-1260	(M)	14.207	14.207	0.000	197849	2382.937	2382.937
(2)		16.393	16.393	0.000	151887	2689.146	2689.146
(3)		16.533	16.537	0.003	195771	2403.893	2403.893
(4)		16.807	16.807	0.000	102102	2476.723	2476.723
(5)		18.050	18.053	0.003	159335	2578.481	2578.481
(6)		18.667	18.670	0.003	408249	2641.656	2641.656

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/kg)
(7)		20.610	20.610	0.000	203149	2691.203	2691.203
(8)		22.627	22.620	0.007	124409	2710.137	2710.137
Average of peak concentrations:							2600.00
Tetrachloro-m-xylene	(M)	3.393	3.390	0.003	296083	217.509	217.509
Decachlorobiphenyl		25.440	25.437	0.003	412629	199.152	199.152

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS INITIAL CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-5 Confirmatory Column

Calibration Files:

/chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/pf026197.d
/chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/pf026198.d
/chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/pf026199.d
/chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/pf026200.d
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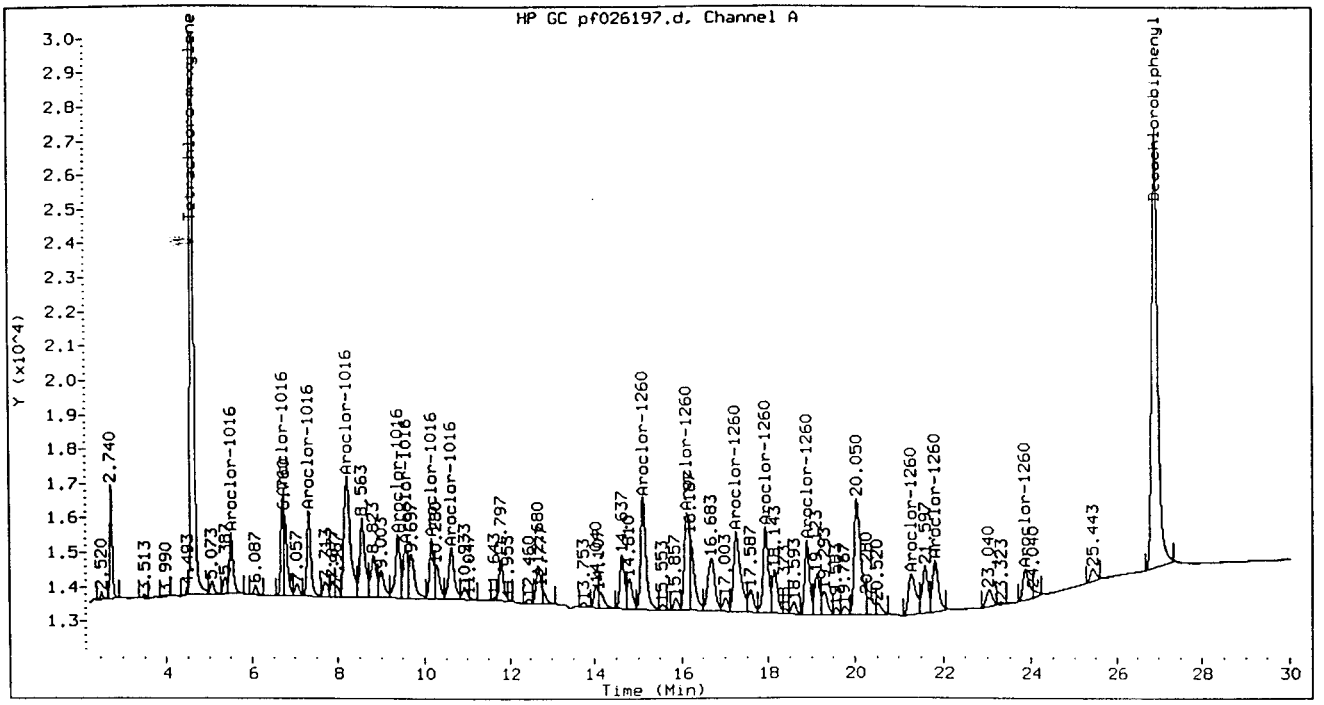
Compound		Level 1	Level 2	Level 3	Level 4	Level 5	Coefficients a0	Coefficients a1	Coefficients a2	%RSD or R^2
Aroclor-1016	1	108.80	114.10	119.92	108.75	102.77		110.87		5.82297
	2	139.81	138.93	130.90	114.66	110.43		126.95		10.77576
	3	156.16	159.57	156.54	142.49	134.93		149.94		7.11925
	4	363.45	386.57	389.20	359.95	348.79		369.59		4.75634
	5	142.41	137.87	130.88	120.19	112.11		128.69		9.71040
	6	106.04	109.67	106.39	96.73	92.14		102.19		7.24388
	7	122.89	135.51	129.92	124.62	114.73		125.53		6.21048
	8	138.85	163.23	161.07	153.53	147.86		152.91		6.51264
Aroclor-1260	1	273.48	268.88	262.25	244.98	231.34		256.19		6.87244
	2	219.45	222.62	209.17	214.20	195.46		212.18		5.02541
	3	256.06	282.07	291.62	285.94	283.79		279.90		4.93160
	4	207.81	215.74	213.44	205.82	194.23		207.41		4.04974
	5	169.02	177.02	182.83	179.51	173.70		176.42		3.01510
	6	138.96	159.97	172.40	174.64	173.96		163.99		9.27906
	7	137.27	163.28	164.86	152.17	154.98		154.51		7.14030
	8	90.43	106.70	111.33	108.72	110.38		105.51		8.16317
Tetrachloro-m-xylene		5604.32	5468.58	5732.14	5457.01	5303.36		5513.08		2.94466
Decachlorobiphenyl		5414.60	5296.62	5465.56	5269.65	5147.62		5318.81		2.35815

Comments:

* = %RSD exceeded maximum upper limit. Linear regression used for quantitation.

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/pf026197.d Page 1
Report Date 10/24/2000 22:46



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/Pf8082.m
Sample Info : 1016/1260-100c
Lab ID : 1016/1260-100c
Inj Date : 24-OCT-2000 19:35
Operator : SUEZ 5210/24/00
Cpnd Sublist: AR16600S
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_1

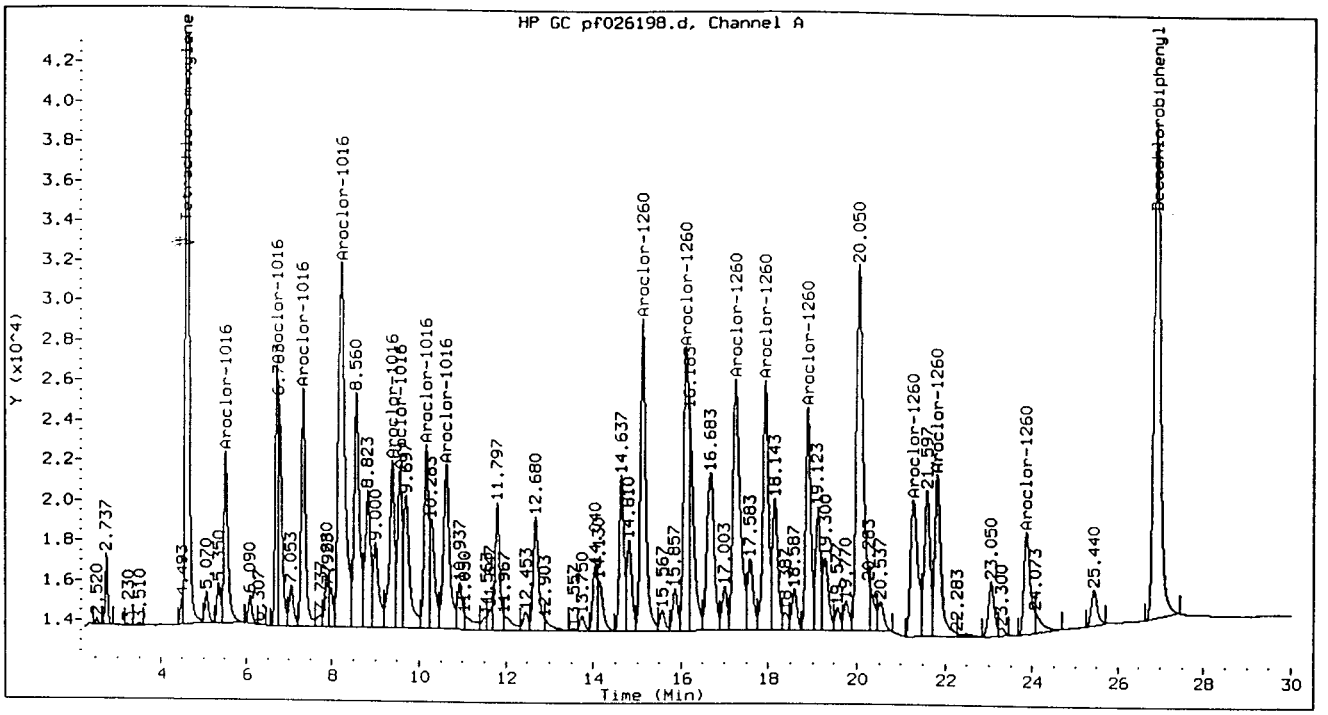
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/kg)
Aroclor-1016	(M)	5.517	5.513	0.003	10880	100.000	100.000
(2)		6.723	6.723	0.000	13981	100.000	100.000
(3)		7.330	7.330	0.000	15616	100.000	100.000
(4)		8.213	8.217	0.003	36345	100.000	100.000
(5)		9.383	9.383	0.000	14241	100.000	100.000
(6)		9.557	9.553	0.003	10604	100.000	100.000
(7)		10.157	10.157	0.000	12289	100.000	100.000
(8)		10.627	10.630	0.003	13885	100.000	100.000
Average of peak concentrations:							100.00
Aroclor-1260	(M)	15.117	15.117	0.000	27348	100.000	100.000
(2)		16.117	16.113	0.003	21945	100.000	100.000
(3)		17.250	17.253	0.003	25606	100.000	100.000
(4)		17.930	17.930	0.000	20781	100.000	100.000
(5)		18.897	18.893	0.003	16902	100.000	100.000
(6)		21.283	21.280	0.003	13896	100.000	100.000

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/kg)
(7)		21.823	21.827	0.003	13727	100.000	100.000
(8)		23.867	23.863	0.003	9043	100.000	100.000
Average of peak concentrations:							100.00
Tetrachloro-m-xylene	(M)	4.617	4.617	0.000	140108	25.000	25.000
Decachlorobiphenyl		26.913	26.920	0.007	135365	25.000	25.000

COMMENTS:

M - Compound response manually integrated.

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/pf026198.d Page 1
Report Date 10/24/2000 22:46



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/Pf8082.m
Sample Info : 1016/1260-500c
Lab ID : 1016/1260-500c
Inj Date : 24-OCT-2000 20:07
Operator : SUEZ 11/10/24/00
Cpnd Sublist: AR16600S

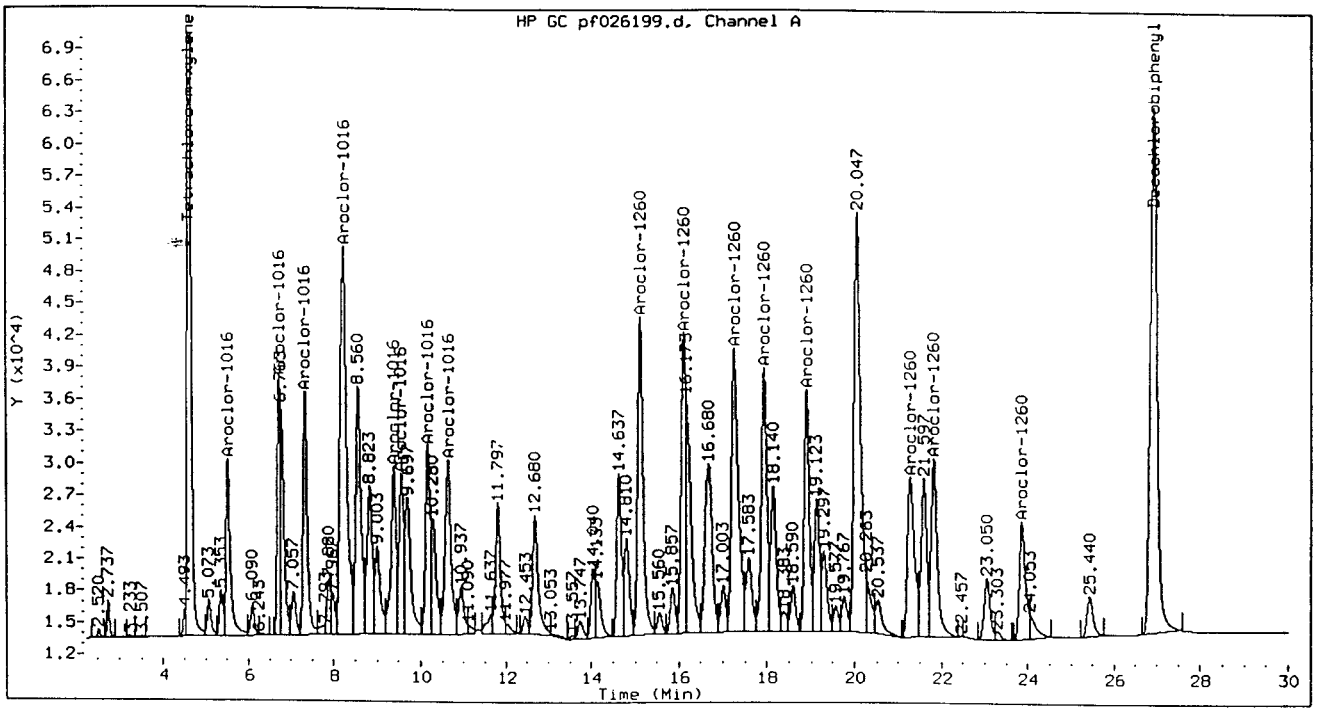
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_2

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1016	(M)	5.513	5.513	0.000	57050	511.889	511.889
(2)		6.720	6.723	0.003	69466	498.425	498.425
(3)		7.330	7.330	0.000	79785	505.400	505.400
(4)		8.217	8.217	0.000	193283	515.410	515.410
(5)		9.383	9.383	0.000	68937	491.908	491.908
(6)		9.557	9.553	0.003	54836	508.419	508.419
(7)		10.160	10.157	0.003	67753	524.412	524.412
(8)		10.627	10.630	0.003	81615	540.354	540.354
Average of peak concentrations:							510.00
Aroclor-1260	(M)	15.113	15.117	0.003	134440	495.759	495.759
(2)		16.113	16.113	0.000	111312	503.590	503.590
(3)		17.253	17.253	0.000	141037	524.171	524.171
(4)		17.933	17.930	0.003	107871	509.364	509.364
(5)		18.893	18.893	0.000	88509	511.557	511.557
(6)		21.283	21.280	0.003	79985	535.142	535.142

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
(7)		21.823	21.827	0.003	81638	543.265	543.265
(8)		23.867	23.863	0.003	53350	541.267	541.267
Average of peak concentrations:							520.00
Tetrachloro-m-xylene	(M)	4.613	4.617	0.003	273429	49.387	49.387
Decachlorobiphenyl		26.910	26.920	0.010	264831	49.449	49.449

COMMENTS:

M - Compound response manually integrated.



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/Pf8082.m
Sample Info : 1016/1260-1000c
Lab ID : 1016/1260-1000c
Inj Date : 24-OCT-2000 20:38
Operator : SUEZ 10/24/00
Cpnd Sublist: AR16600S

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

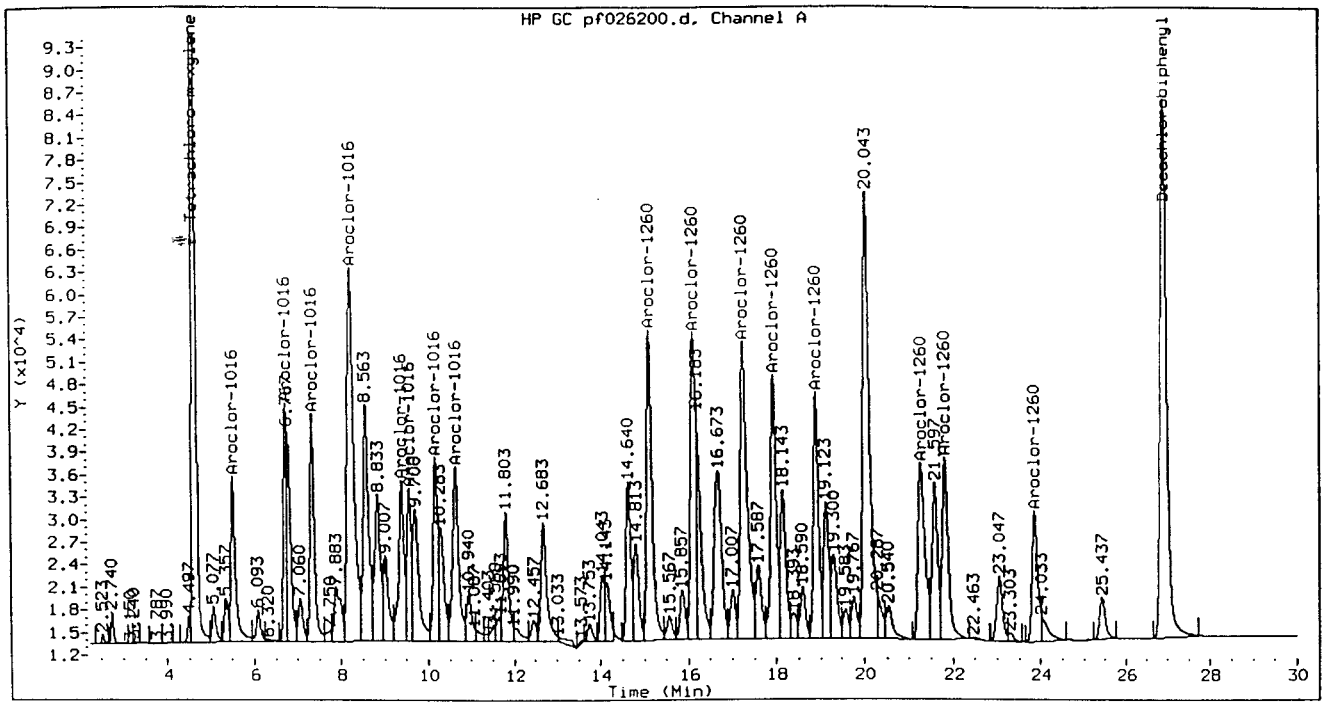
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/kg)
Aroclor-1016	(M)	5.513	5.513	0.000	119923	1049.431	1049.431
(2)		6.723	6.723	0.000	130903	958.657	958.657
(3)		7.330	7.330	0.000	156541	994.393	994.393
(4)		8.217	8.217	0.000	389199	1024.914	1024.914
(5)		9.383	9.383	0.000	130880	954.947	954.947
(6)		9.553	9.553	0.000	106388	990.885	990.885
(7)		10.157	10.157	0.000	129919	1003.713	1003.713
(8)		10.630	10.630	0.000	161071	1043.316	1043.316
Average of peak concentrations:							1000.00
Aroclor-1260	(M)	15.117	15.117	0.000	262248	977.798	977.798
(2)		16.113	16.113	0.000	209166	963.543	963.543
(3)		17.253	17.253	0.000	291625	1054.372	1054.372
(4)		17.930	17.930	0.000	213437	1005.215	1005.215
(5)		18.893	18.893	0.000	182832	1037.109	1037.109
(6)		21.280	21.280	0.000	172395	1097.300	1097.300

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/kg)
(7)		21.827	21.827	0.000	164859	1062.681	1062.681
(8)		23.863	23.863	0.000	111332	1082.778	1082.778
Average of peak concentrations:							1000.00
Tetrachloro-m-xylene	(M)	4.617	4.617	0.000	573214	102.329	102.329
Decachlorobiphenyl		26.920	26.920	0.000	546556	101.359	101.359

COMMENTS:

M - Compound response manually integrated.

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/pf026200.d Page 1
Report Date 10/24/2000 22:46



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/Pf8082.m
Sample Info : 1016/1260-1500c
Lab ID : 1016/1260-1500c
Inj Date : 24-OCT-2000 21:09
Operator : SUEZ SZ 10/24/00
Cpnd Sublist: AR16600S

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_4

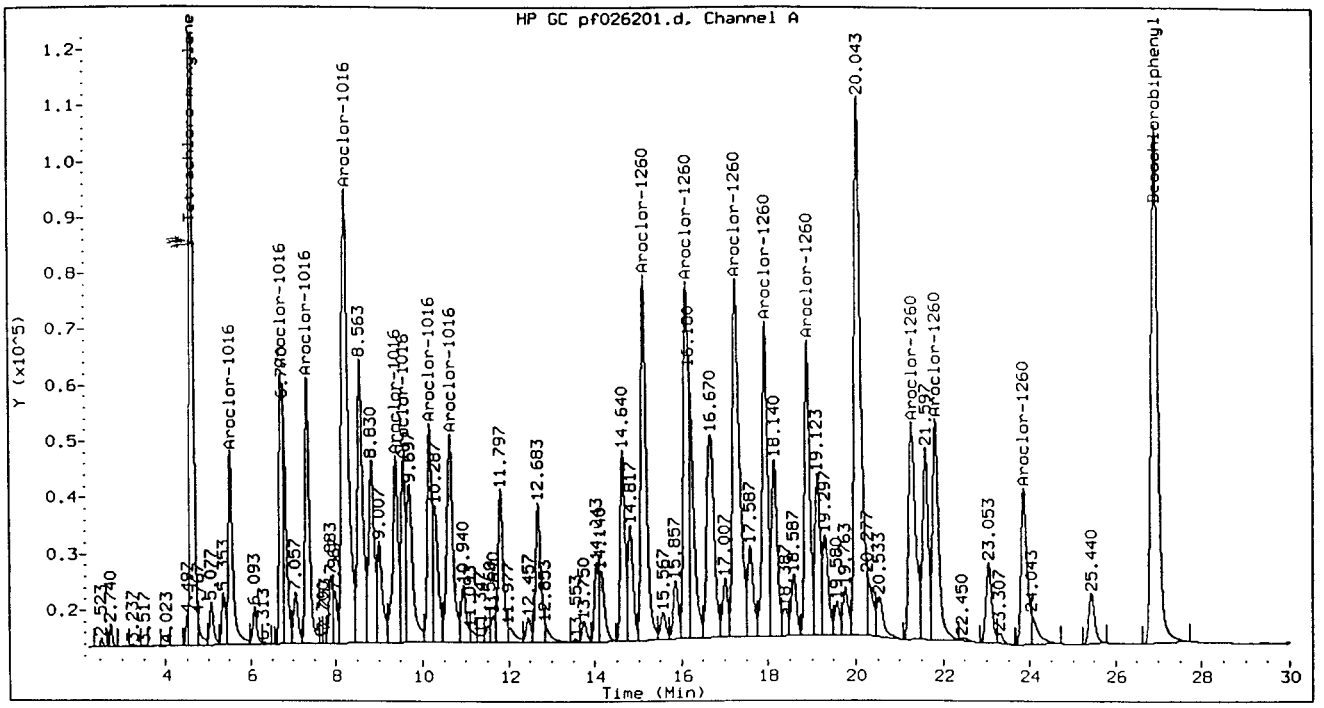
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1016	(M)	5.517	5.513	0.003	163123	1444.936	1444.936
(2)		6.727	6.723	0.003	171986	1312.113	1312.113
(3)		7.333	7.330	0.003	213729	1390.657	1390.657
(4)		8.220	8.217	0.003	539929	1440.610	1440.610
(5)		9.387	9.383	0.003	180279	1357.139	1357.139
(6)		9.557	9.553	0.003	145095	1385.717	1385.717
(7)		10.160	10.157	0.003	186935	1457.758	1457.758
(8)		10.630	10.630	0.000	230302	1493.805	1493.805
Average of peak concentrations:							1400.00
Aroclor-1260	(M)	15.117	15.117	0.000	367476	1400.453	1400.453
(2)		16.110	16.113	0.003	321294	1485.004	1485.004
(3)		17.250	17.253	0.003	428910	1537.727	1537.727
(4)		17.933	17.930	0.003	308733	1465.254	1465.254
(5)		18.897	18.893	0.003	269263	1520.447	1520.447
(6)		21.273	21.280	0.007	261962	1622.140	1622.140

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/kg)
(7)		21.827	21.827	0.000	228253	1478.386	1478.386
(8)		23.860	23.863	0.003	163082	1563.648	1563.648
Average of peak concentrations:							1500.00
Tetrachloro-m-xylene	(M)	4.620	4.617	0.003	818551	147.076	147.076
Decachlorobiphenyl		26.920	26.920	0.000	790448	147.427	147.427

COMMENTS:

M - Compound response manually integrated.

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/pf026201.d Page 1
Report Date 10/24/2000 22:46



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/Pf8082.m
Sample Info : 1016/1260-2500c
Lab ID : 1016/1260-2500c
Inj Date : 24-OCT-2000 21:41
Operator : SUEZ 10/24/00
Cpnd Sublist: AR16600S
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_5

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1016	(M)	5.517	5.513	0.003	256936	2317.469	2317.469
(2)		6.723	6.723	0.000	276081	2174.775	2174.775
(3)		7.330	7.330	0.000	337332	2249.811	2249.811
(4)		8.220	8.217	0.003	871965	2359.272	2359.272
(5)		9.383	9.383	0.000	280271	2177.849	2177.849
(6)		9.557	9.553	0.003	230354	2254.078	2254.078
(7)		10.160	10.157	0.003	286835	2284.910	2284.910
(8)		10.633	10.630	0.003	369650	2417.449	2417.449
Average of peak concentrations:							2300.00
Aroclor-1260	(M)	15.117	15.117	0.000	578343	2257.514	2257.514
(2)		16.110	16.113	0.003	488639	2302.964	2302.964
(3)		17.250	17.253	0.003	709467	2534.742	2534.742
(4)		17.930	17.930	0.000	485569	2341.133	2341.133
(5)		18.893	18.893	0.000	434249	2461.511	2461.511
(6)		21.273	21.280	0.007	434898	2652.058	2652.058

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/kg)
(7)		21.827	21.827	0.000	387440	2507.541	2507.541
(8)		23.863	23.863	0.000	275950	2615.326	2615.326
Average of peak concentrations:							2400.00
Tetrachloro-m-xylene	(M)	4.620	4.617	0.003	1060672	192.392	192.392
Decachlorobiphenyl		26.917	26.920	0.003	1029524	193.563	193.563

COMMENTS:

M - Compound response manually integrated.

MULTICOMPONENT COMPOUND CONTINUING CALIBRATION REPORT

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-29-00/29oct00a.b/pr026315.d
Method: /chem1/PESTGC5.i/8082/rear/Oct00/10-29-00/29oct00a.b/Pr8082.m

Sample Information: 1016/1260-1000a
Injection Date: 29-OCT-2000 13:59

Compound	Signal No.	RT	Exp Conc	Actual Conc	Percent Diff.
Aroclor-1016	1	4.933	1000	950.55	4.94
Aroclor-1016	2	6.150	1000	1017.84	1.78
Aroclor-1016	3	7.097	1000	1015.33	1.53
Aroclor-1016	4	7.330	1000	862.39	13.76
Aroclor-1016	5	7.890	1000	878.79	12.12
Aroclor-1016	6	8.613	1000	1041.15	4.11
Aroclor-1016	7	9.627	1000	968.41	3.16
Aroclor-1016	8	10.090	1000	972.73	2.73
Aroclor-1260	1	14.247	1000	1020.37	2.04
Aroclor-1260	2	16.443	1000	896.29	10.37
Aroclor-1260	3	16.577	1000	1084.27	8.43
Aroclor-1260	4	16.850	1000	1142.13	14.21
Aroclor-1260	5	18.097	1000	1033.67	3.37
Aroclor-1260	6	18.713	1000	999.84	0.02
Aroclor-1260	7	20.653	1000	1077.37	7.74
Aroclor-1260	8	22.667	1000	1030.85	3.08

Surrogate	RT	Exp Conc	Actual Conc	Percent Diff.
Tetrachloro-m-xylene	3.410	100	109.44	9.44
Decachlorobiphenyl	25.483	100	104.07	4.07

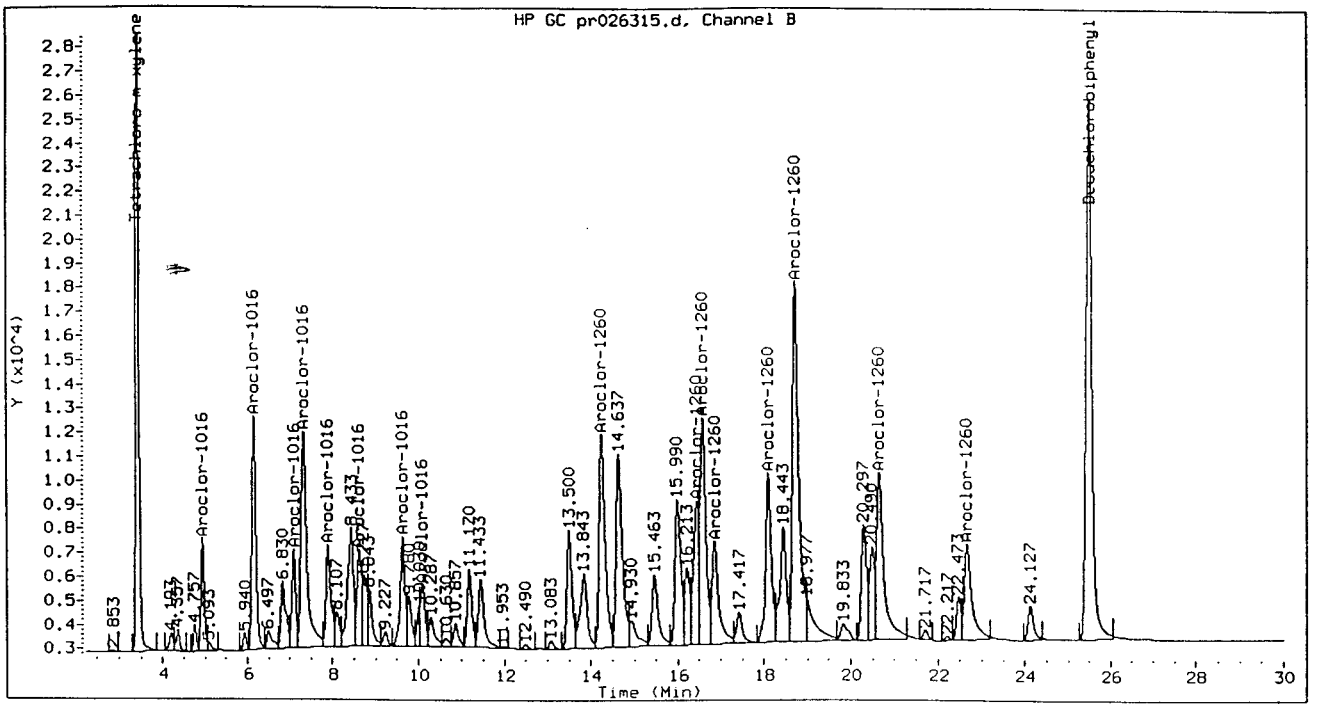
GC ORGANICS RETENTION TIME CHECK

Instrument ID: PESTGC5.i

Midpoint Calibration File: /chem1/PESTGC5.i/8082/rear/Oct00/10-24-00/24oct00c.b/pr026199.d
Injection Date: 24-OCT-2000 20:38

Continuing Calibration File: /chem1/PESTGC5.i/8082/rear/Oct00/10-29-00/29oct00a.b/pr026315.d
Injection Date: 29-OCT-2000 13:59

Compound	Init Cal RT	RT Range	Cont Cal RT	Flags
Aroclor-1016	4.907	(4.837 - 4.977)	4.933	
	6.120	(6.050 - 6.190)	6.150	
	7.063	(6.993 - 7.133)	7.097	
	7.300	(7.230 - 7.370)	7.330	
	7.857	(7.787 - 7.927)	7.890	
	8.580	(8.510 - 8.650)	8.613	
	9.593	(9.523 - 9.663)	9.627	
	10.053	(9.983 - 10.123)	10.090	
Aroclor-1260	14.207	(14.137 - 14.277)	14.247	
	16.393	(16.323 - 16.463)	16.443	
	16.537	(16.467 - 16.607)	16.577	
	16.807	(16.737 - 16.877)	16.850	
	18.053	(17.983 - 18.123)	18.097	
	18.670	(18.600 - 18.740)	18.713	
	20.610	(20.540 - 20.680)	20.653	
	22.620	(22.550 - 22.690)	22.667	
Tetrachloro-m-xylene	3.390	(3.340 - 3.440)	3.410	
Decachlorobiphenyl	25.437	(25.337 - 25.537)	25.483	



Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-29-00/29oct00a.b/Pr8082.m
Sample Info : 1016/1260-1000a
Lab ID : 1016/1260-1000a
Inj Date : 29-OCT-2000 13:59
Operator : SUEZ 11/01/00
Cpnd Sublist: AR16600S

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CCALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1016	(M)	4.933	4.933	0.000	26063	950.552	950.552
(2)		6.150	6.150	0.000	63948	1017.839	1017.839
(3)		7.097	7.097	0.000	26374	1015.334	1015.334
(4)		7.330	7.330	0.000	88070	862.389	862.389
(5)		7.890	7.890	0.000	33262	878.791	878.791
(6)		8.613	8.613	0.000	28699	1041.147	1041.147
(7)		9.627	9.627	0.000	34943	968.415	968.415
(8)		10.090	10.090	0.000	18580	972.731	972.731
Average of peak concentrations:							960.00
Aroclor-1260	(M)	14.247	14.247	0.000	84719	1020.374	1020.374
(2)		16.443	16.443	0.000	50624	896.294	896.294
(3)		16.577	16.577	0.000	88302	1084.270	1084.270
(4)		16.850	16.850	0.000	47084	1142.133	1142.133
(5)		18.097	18.097	0.000	63875	1033.674	1033.674
(6)		18.713	18.713	0.000	154518	999.839	999.839

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/kg)
(7)	20.653	20.653	0.000	81327	1077.374	1077.374
(8)	22.667	22.667	0.000	47321	1030.845	1030.845
Average of peak concentrations:						1000.00
Tetrachloro-m-xylene	3.410	3.410	0.000	148979	109.443	109.443
Decachlorobiphenyl	25.483	25.483	0.000	215633	104.073	104.073

COMMENTS:
M - Compound response manually integrated.

MULTICOMPONENT COMPOUND CONTINUING CALIBRATION REPORT

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-29-00/29oct00a.b/pf026315.d
Method: /chem1/PESTGC5.i/8082/front/Oct00/10-29-00/29oct00a.b/Pf8082.m

Sample Information: 1016/1260-1000a
Injection Date: 29-OCT-2000 13:59

Compound	Signal No.	RT	Exp Conc	Actual Conc	Percent Diff.
Aroclor-1016	1	5.550	1000	1133.09	13.31
Aroclor-1016	2	6.760	1000	1042.96	4.30
Aroclor-1016	3	7.370	1000	1137.16	13.72
Aroclor-1016	4	8.260	1000	853.99	14.60
Aroclor-1016	5	9.427	1000	1140.31	14.03
Aroclor-1016	6	9.600	1000	1096.47	9.65
Aroclor-1016	7	10.207	1000	1080.49	8.05
Aroclor-1016	8	10.673	1000	1096.17	9.62
Aroclor-1260	1	15.170	1000	1047.89	4.79
Aroclor-1260	2	16.173	1000	867.98	13.20
Aroclor-1260	3	17.320	1000	956.78	4.32
Aroclor-1260	4	17.987	1000	1039.11	3.91
Aroclor-1260	5	18.950	1000	1040.87	4.09
Aroclor-1260	6	21.343	1000	914.12	8.59
Aroclor-1260	7	21.883	1000	1148.57	14.86
Aroclor-1260	8	23.923	1000	1067.79	6.78

Surrogate	RT	Exp Conc	Actual Conc	Percent Diff.
Tetrachloro-m-xylene	4.647	100	115.47	15.47<-
Decachlorobiphenyl	26.980	100	109.50	9.50

GC ORGANICS RETENTION TIME CHECK

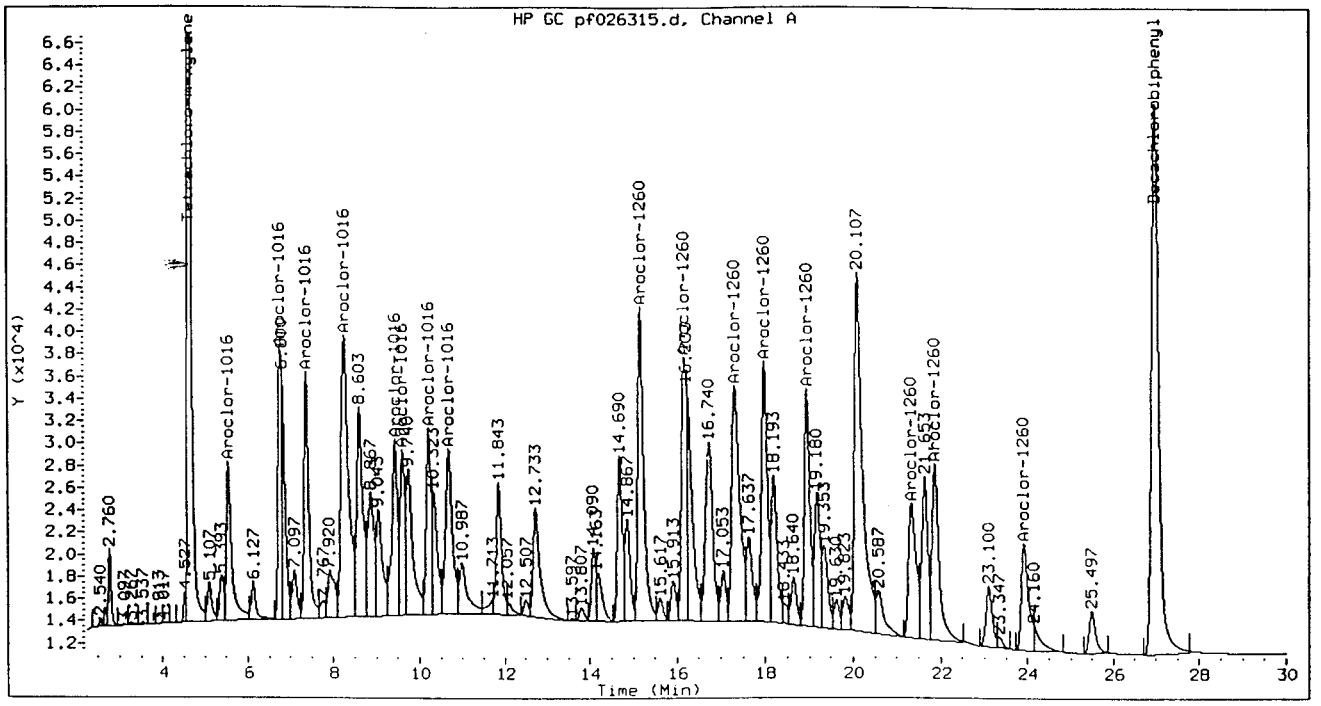
Instrument ID: PESTGC5.i

Midpoint Calibration File: /chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/pf026199.d
Injection Date: 24-OCT-2000 20:38

Continuing Calibration File: /chem1/PESTGC5.i/8082/front/Oct00/10-29-00/29oct00a.b/pf026315.d
Injection Date: 29-OCT-2000 13:59

Compound	Init Cal RT	RT Range	Cont Cal RT	Flags
Aroclor-1016	5.513	(5.443 - 5.583)	5.550	
	6.723	(6.653 - 6.793)	6.760	
	7.330	(7.260 - 7.400)	7.370	
	8.217	(8.147 - 8.287)	8.260	
	9.383	(9.313 - 9.453)	9.427	
	9.553	(9.483 - 9.623)	9.600	
	10.157	(10.087 - 10.227)	10.207	
	10.630	(10.560 - 10.700)	10.673	
Aroclor-1260	15.117	(15.047 - 15.187)	15.170	
	16.113	(16.043 - 16.183)	16.173	
	17.253	(17.183 - 17.323)	17.320	
	17.930	(17.860 - 18.000)	17.987	
	18.893	(18.823 - 18.963)	18.950	
	21.280	(21.210 - 21.350)	21.343	
	21.827	(21.757 - 21.897)	21.883	
	23.863	(23.793 - 23.933)	23.923	
Tetrachloro-m-xylene	4.617	(4.567 - 4.667)	4.647	
Decachlorobiphenyl	26.920	(26.820 - 27.020)	26.980	

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-29-00/29oct00a.b/pf026315.d Page 1
Report Date 11/01/2000 12:52



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-29-00/29oct00a.b/Pf8082.m
Sample Info : 1016/1260-1000a
Lab ID : 1016/1260-1000a
Inj Date : 29-OCT-2000 13:59
Operator : SUEZ 11/01/00
Cpnd Sublist: AR16600S

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CCALIB_3

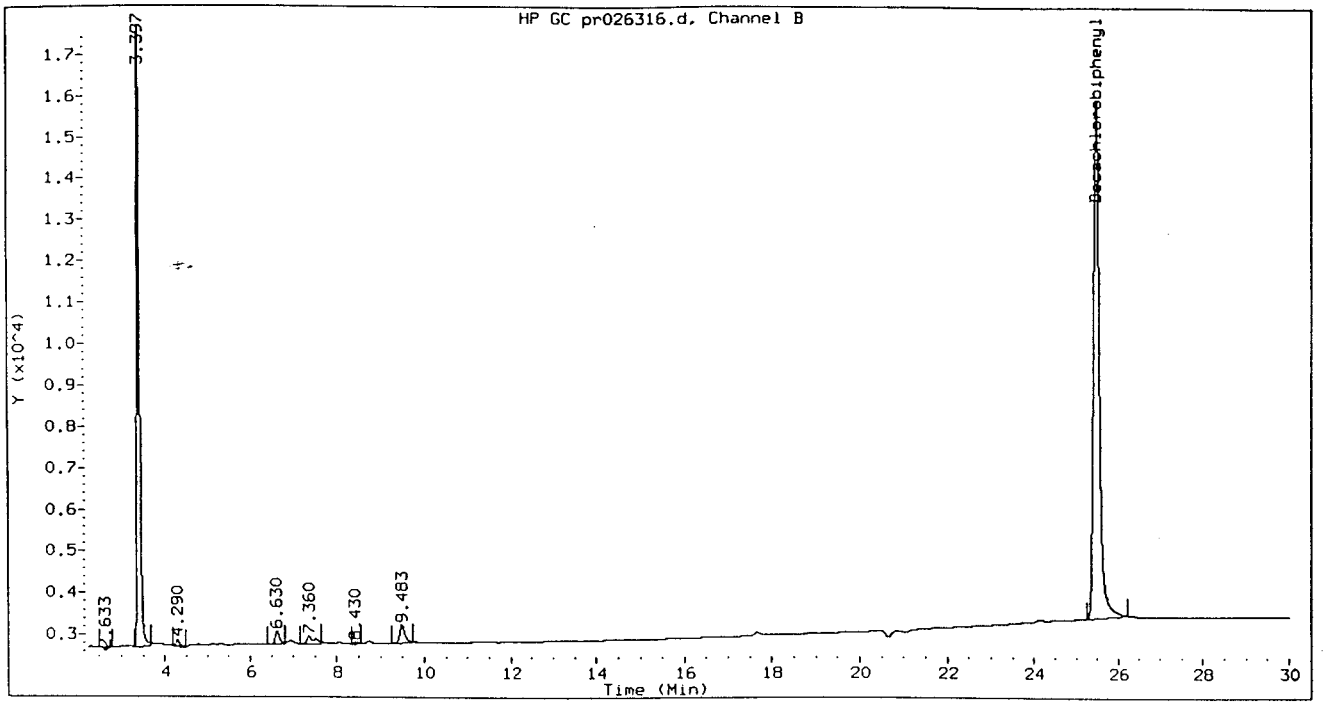
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1016	(M)	5.550	5.550	0.000	125625	1133.092	1133.092
(2)		6.760	6.760	0.000	132400	1042.955	1042.955
(3)		7.370	7.370	0.000	170503	1137.157	1137.157
(4)		8.260	8.260	0.000	315626	853.988	853.988
(5)		9.427	9.427	0.000	146748	1140.307	1140.307
(6)		9.600	9.600	0.000	112053	1096.470	1096.470
(7)		10.207	10.207	0.000	135639	1080.492	1080.492
(8)		10.673	10.673	0.000	167615	1096.174	1096.174
Average of peak concentrations:							1100.00
Aroclor-1260	(M)	15.170	15.170	0.000	268455	1047.892	1047.892
(2)		16.173	16.173	0.000	184166	867.977	867.977
(3)		17.320	17.320	0.000	267800	956.780	956.780
(4)		17.987	17.987	0.000	215519	1039.108	1039.108
(5)		18.950	18.950	0.000	183625	1040.866	1040.866
(6)		21.343	21.343	0.000	149902	914.120	914.120

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
(7)		21.883	21.883	0.000	177465	1148.567	1148.567
(8)		23.923	23.923	0.000	112665	1067.786	1067.786
Average of peak concentrations:							1000.00
Tetrachloro-m-xylene	(M)	4.647	4.647	0.000	636608	115.472	115.472
Decachlorobiphenyl		26.980	26.980	0.000	582402	109.499	109.499

COMMENTS:

M - Compound response manually integrated.

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-29-00/29oct00a.b/pr026316.d Page 1
Report Date 10/31/2000 14:57

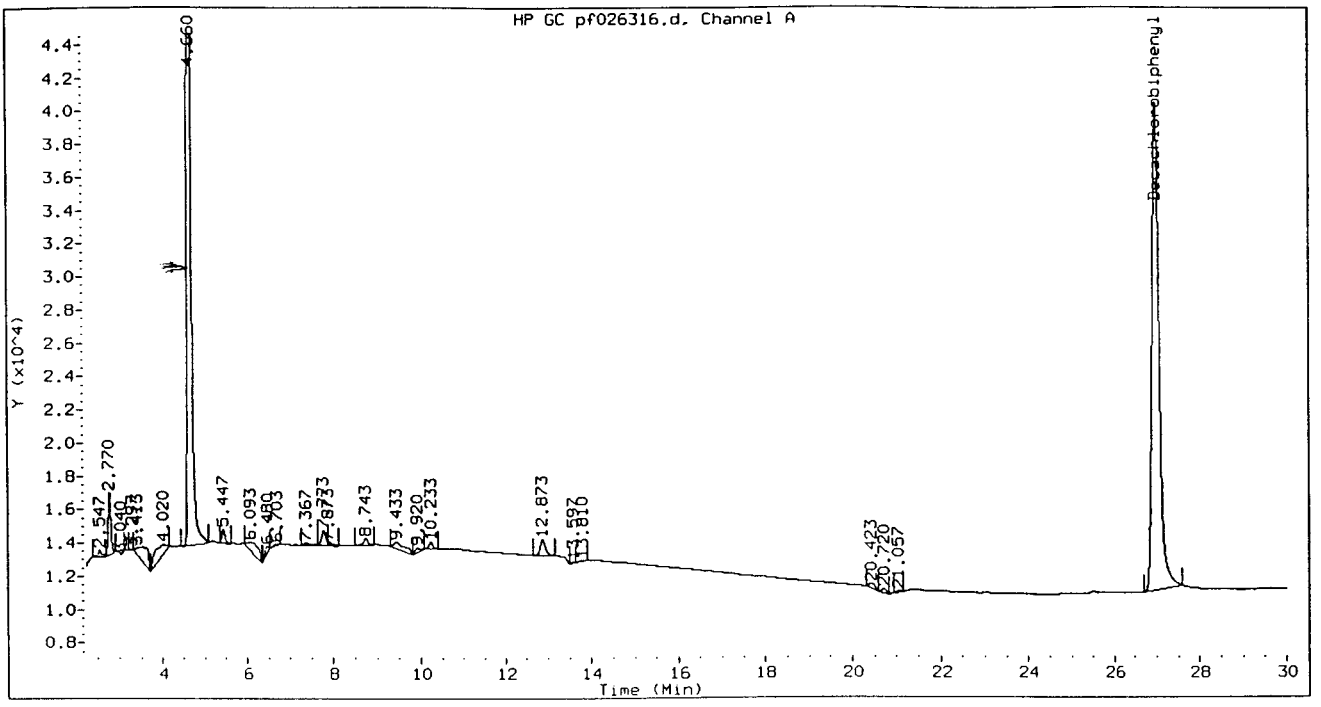


Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-29-00/29oct00a.b/Pr8082.m
Sample Info : SP302;15;10;
Lab ID : SP302
Inj Date : 29-OCT-2000 14:46
Operator : SUEZ 10/31/00
Cpnd Sublist: PCB8082+
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: BLANK

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Decachlorobiphenyl	(M)	25.480	25.483	0.003	120679	58.245	38.830

COMMENTS:

M - Compound response manually integrated.

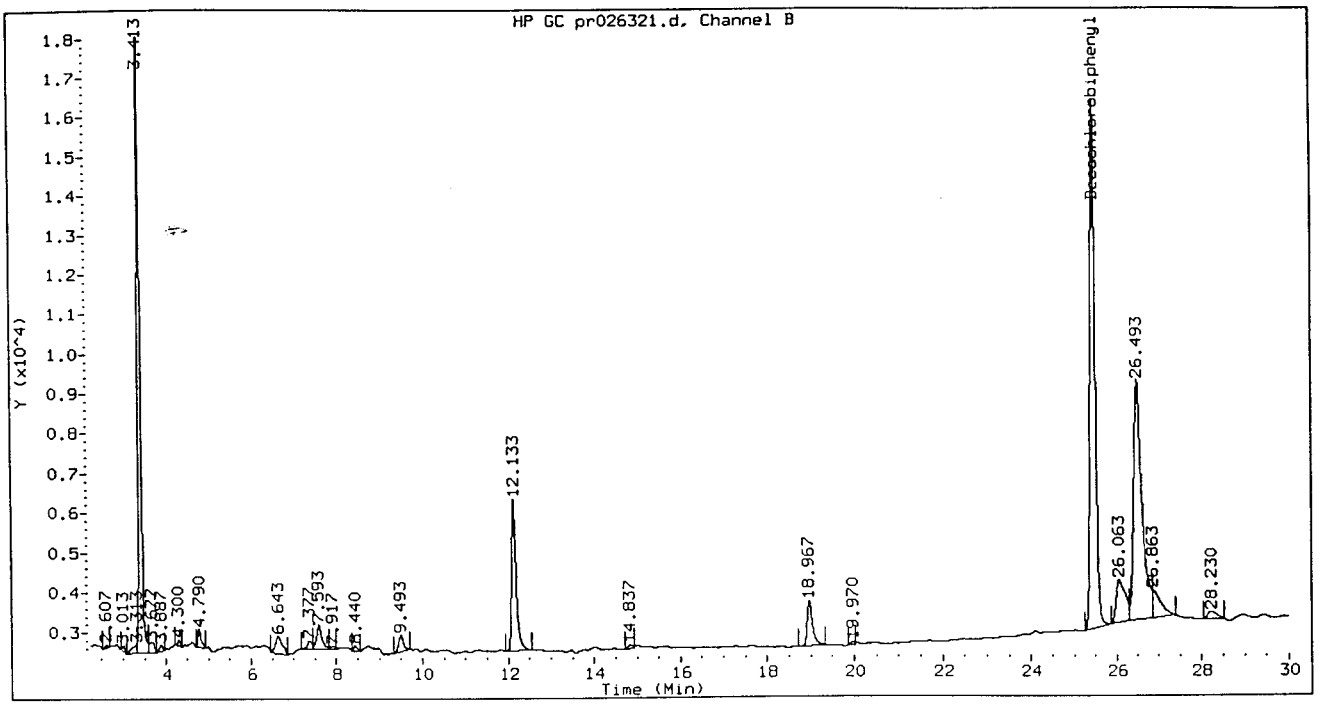


Method : /chem1/PESTGC5.i/8082/front/Oct00/10-29-00/29oct00a.b/Pf8082.m
Sample Info : SP302;15;10;
Lab ID : SP302 Inst ID : PESTGC5.i
Inj Date : 29-OCT-2000 14:46 Dil Factor : 1
Operator : SUEZ SZ 10/31/00 Sample Matrix : SOIL
Cpnd Sublist: PCB8082+ Sample Type: BLANK

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Decachlorobiphenyl	(M)	26.983	26.980	0.003	336067	63.185	42.123

COMMENTS:

M - Compound response manually integrated.



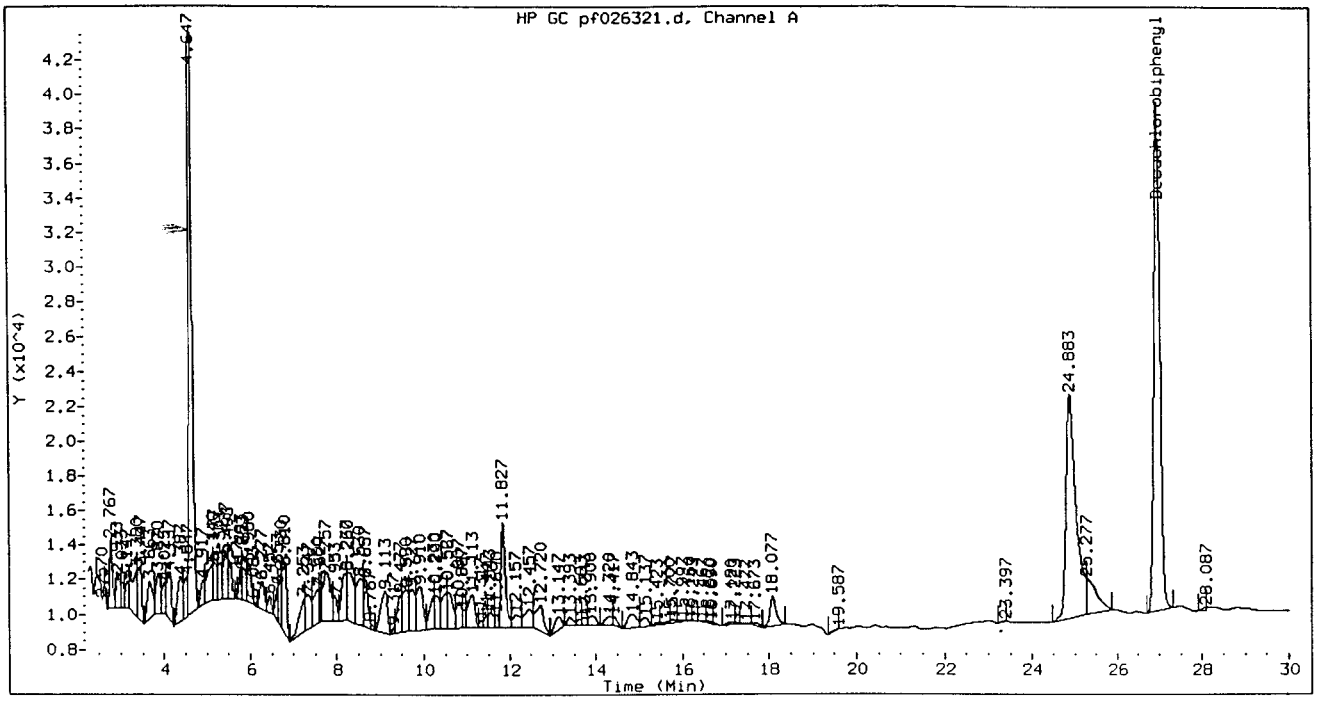
Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-29-00/29oct00a.b/Pr8082.m
Sample Info : 237814;15;10;;23.1
Lab ID : 237814
Inj Date : 29-OCT-2000 17:24
Operator : SUEZ 5k10/31/00
Cpnd Sublist: PCB8082+
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Decachlorobiphenyl	(M)	25.470	25.483	0.013	108768	52.496	45.510

COMMENTS:

M - Compound response manually integrated.

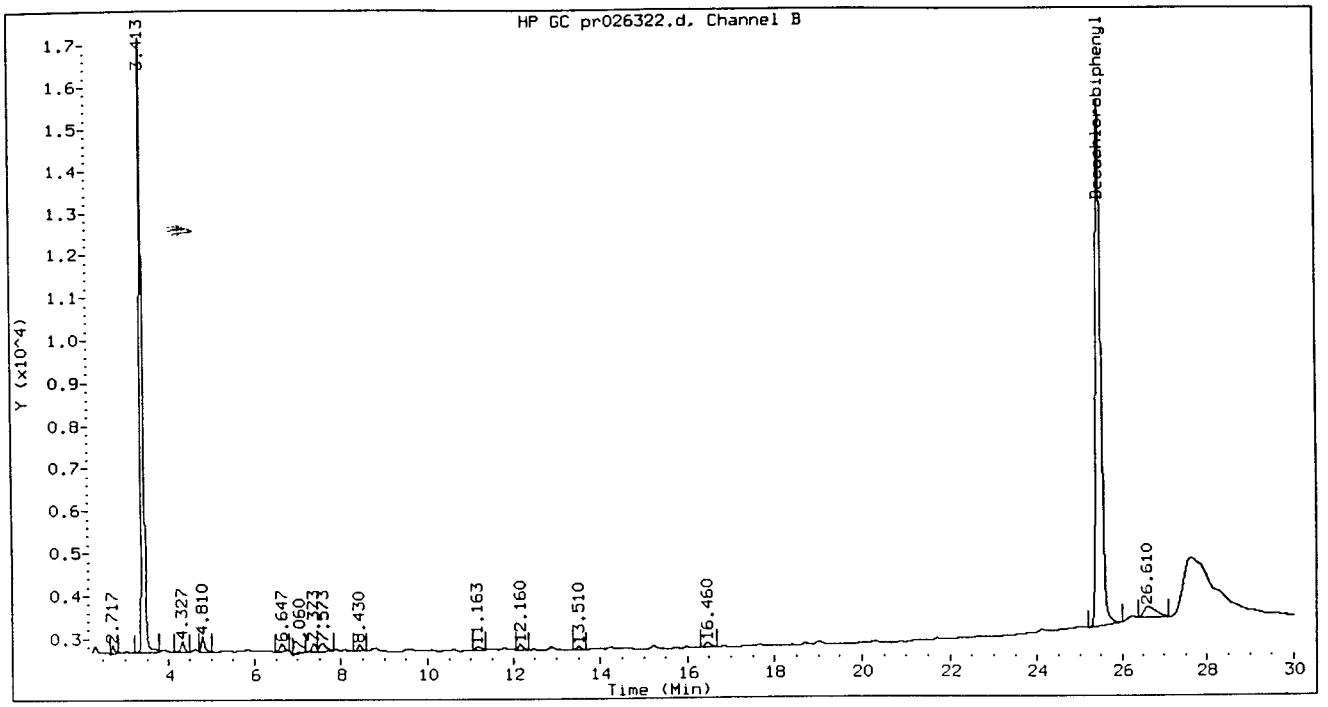
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Report Date 10/31/2000 10:58



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-29-00/29oct00a.b/Pf8082.m
Sample Info : 237814;15;10;;23.1
Lab ID : 237814 Inst ID : PESTGC5.i
Inj Date : 29-OCT-2000 17:24 Dil Factor : 1
Operator : SUEZ 5z 10/31/00 Sample Matrix : SOIL
Cpnd Sublist: PCB8082+ Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Decachlorobiphenyl	26.960	26.980	0.020	289108	54.356	47.122

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-29-00/29oct00a.b/pr026322.d Page 1
Report Date 10/31/2000 10:57



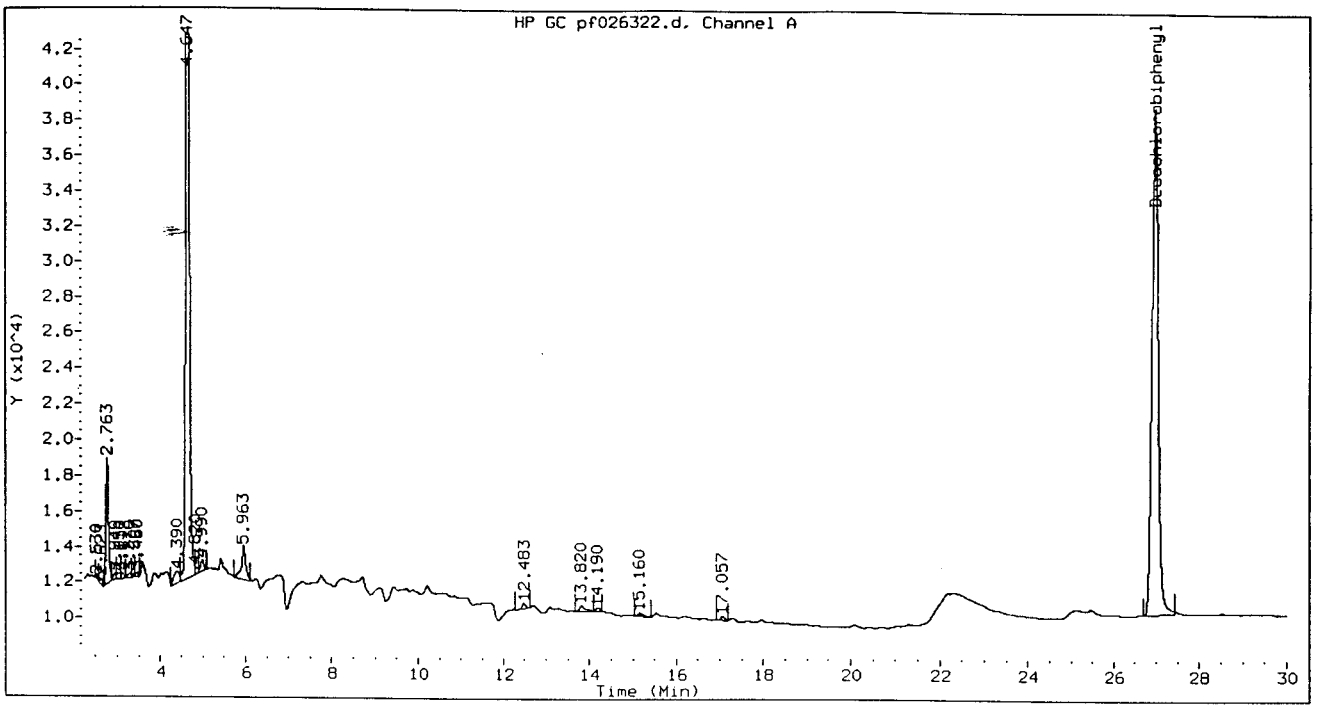
Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-29-00/29oct00a.b/Pr8082.m
Sample Info : 237815;15;10;;7.9
Lab ID : 237815
Inj Date : 29-OCT-2000 17:55
Operator : SUEZ 2z 10/31/00
Cpnd Sublist: PCB8082+
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Decachlorobiphenyl	(M)	25.470	25.483	0.013	106335	51.322	37.149

COMMENTS:

M - Compound response manually integrated.

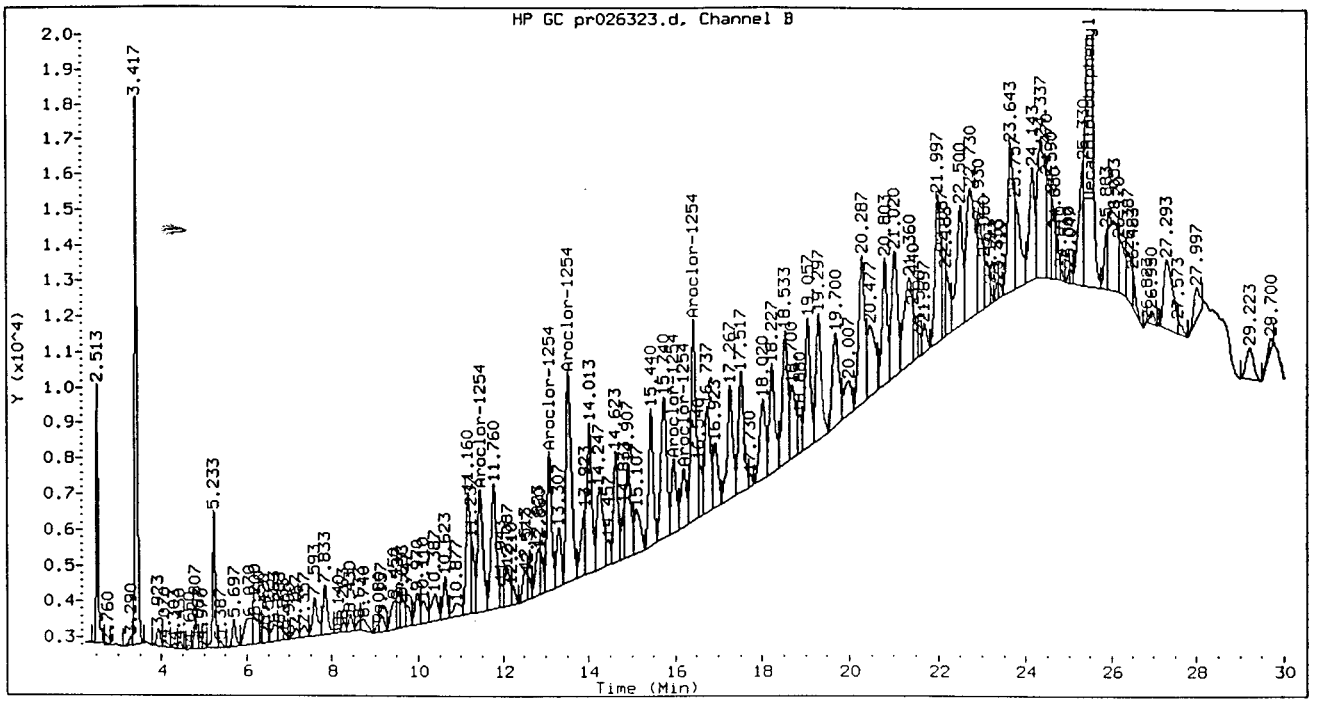
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Report Date 10/31/2000 10:58



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-29-00/29oct00a.b/Pf8082.m
Sample Info : 237815;15;10;;7.9
Lab ID : 237815
Inj Date : 29-OCT-2000 17:55
Operator : SUEZ 11/10/31/00
Cpnd Sublist: PCB8082+
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Decachlorobiphenyl	26.967	26.980	0.013	287008	53.961	39.060

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-29-00/29oct00a.b/pr026323.d Page 1
Report Date 10/31/2000 10:58



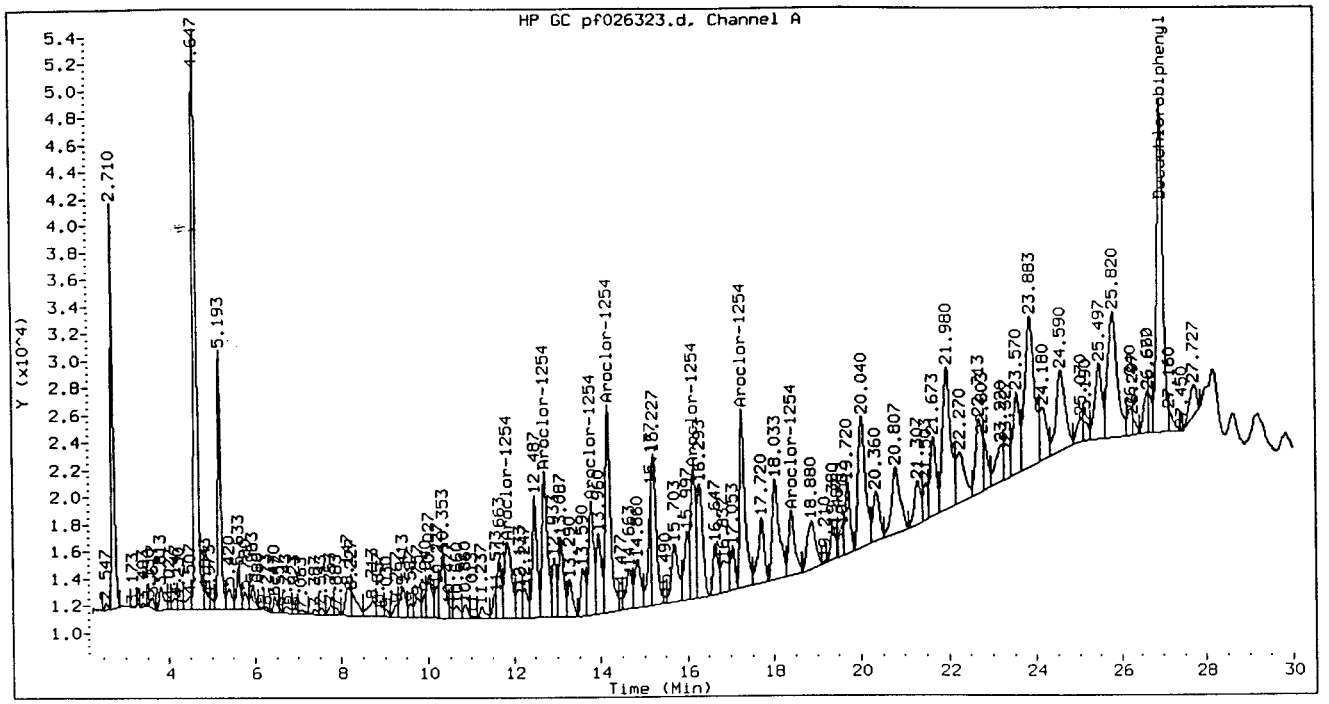
Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-29-00/29oct00a.b/Pr8082.m
Sample Info : 237825;15;10;;0.2
Lab ID : 237825 Inst ID : PESTGC5.i
Inj Date : 29-OCT-2000 18:26 Dil Factor : 1
Operator : SUEZ 11/7/00 Sample Matrix : SOIL
Cpnd Sublist: PCB8082+ Sample Type: SAMPLE

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1254	(M)	11.437	11.393	0.043	30137	435.795	291.113
(2)		13.080	13.037	0.043	29110	807.378	539.330
(3)		13.517	13.480	0.037	51379	589.330	393.674
(4)		------	14.000	------	------	------	------ (*)
(5)		------	15.417	------	------	------	------ (*)
(6)		15.963	15.933	0.030	15820	437.282	292.106
(7)		16.190	16.163	0.027	14691	720.253	481.131
(8)		16.417	16.393	0.023	46812	792.913	529.668
Average of peak concentrations:							420.00
Decachlorobiphenyl	(M)	25.473	25.483	0.010	135816	65.550	43.788

COMMENTS:

* - Mutlicomponent peak not used in quantitation of compound.
M - Compound response manually integrated.

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-29-00/29oct00a.b/pf026323.d Page 1
Report Date 10/31/2000 10:58



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-29-00/29oct00a.b/Pf8082.m
Sample Info : 237825;15;10;;0.2
Lab ID : 237825
Inj Date : 29-OCT-2000 18:26
Operator : SUEZ 52 10/31/00
Cpnd Sublist: PCB8082+

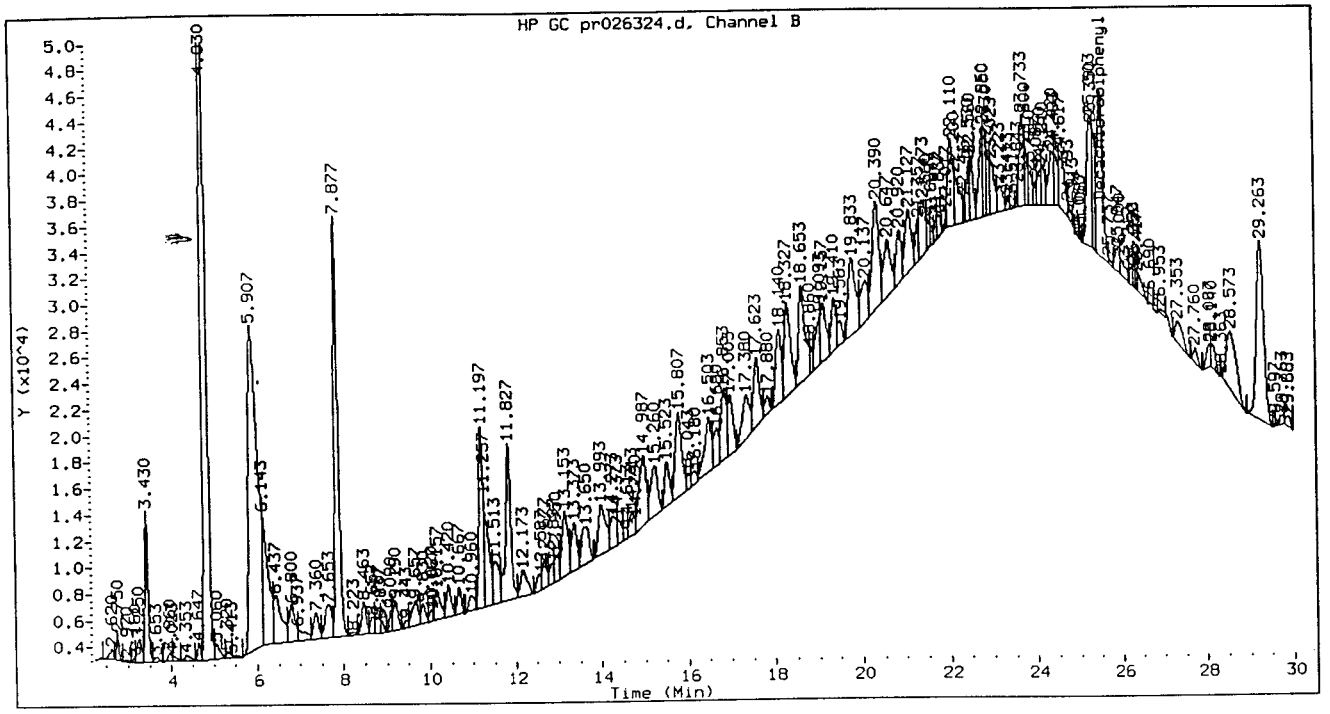
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1254	(M)	------	9.383	------	------	------	------ (*)
(2)		11.847	11.793	0.054	64218	298.261	199.239
(3)		12.713	12.670	0.043	94008	341.758	228.295
(4)		13.790	13.750	0.040	66787	441.669	295.036
(5)		14.183	14.153	0.030	126491	381.671	254.957
(6)		16.147	16.217	0.070	79015	474.567	317.012
(7)		17.273	17.253	0.020	109381	406.870	271.791
(8)		18.407	18.393	0.014	46855	865.138	577.914
Average of peak concentrations:							310.00
Decachlorobiphenyl	(M)	26.963	26.980	0.017	249012	46.817	31.274

COMMENTS:

* - Mutlicomponent peak not used in quantitation of compound.
M - Compound response manually integrated.

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-29-00/29oct00a.b/pr026324.d Page 1
Report Date 10/31/2000 10:58



Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-29-00/29oct00a.b/Pr8082.m
Sample Info : 237826;15;10;;4.2
Lab ID : 237826
Inj Date : 29-OCT-2000 18:58
Operator : SUEZ 52 10/31/00
Cpnd Sublist: PCB8082+

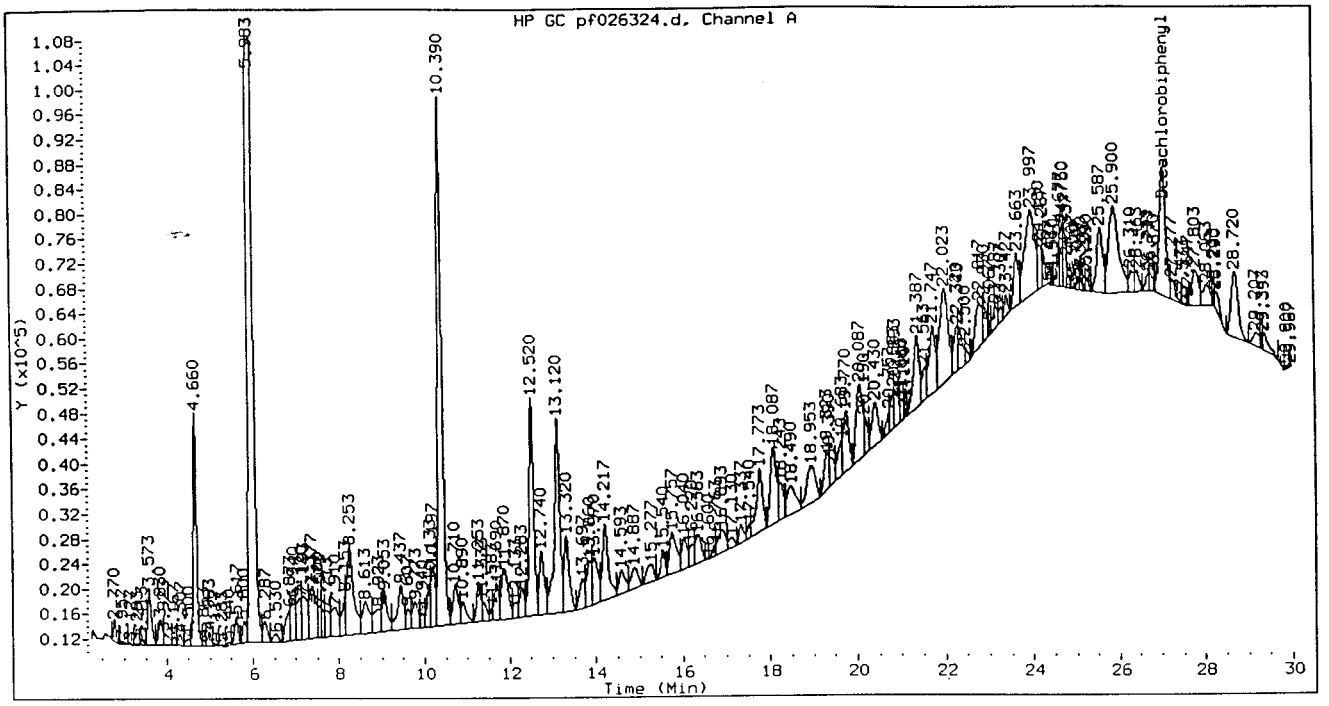
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/kg)
Decachlorobiphenyl	(M)	25.550	25.483	0.067	115159	55.581	38.678

COMMENTS:

M - Compound response manually integrated.

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-29-00/29oct00a.b/pf026324.d Page 1
Report Date 10/31/2000 10:58

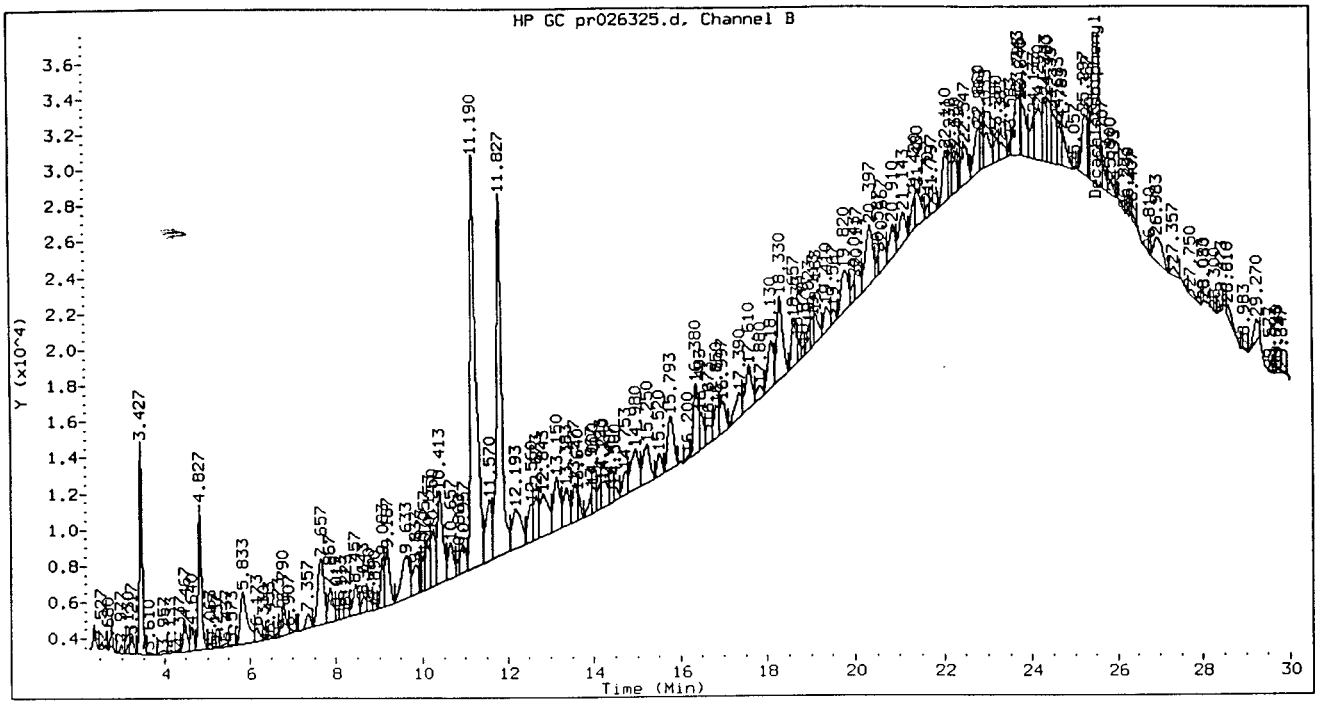


Method : /chem1/PESTGC5.i/8082/front/Oct00/10-29-00/29oct00a.b/Pf8082.m
Sample Info : 237826;15;10;;4.2
Lab ID : 237826
Inj Date : 29-OCT-2000 18:58
Operator : SUEZ 11/21/00
Cpnd Sublist: PCB8082+
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/kg)
Decachlorobiphenyl	(M)	27.073	26.980	0.093	213115	40.068	27.883

COMMENTS:

M - Compound response manually integrated.



Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-29-00/29oct00a.b/Pr8082.m
Sample Info : 237828;15;10;;4.1
Lab ID : 237828
Inj Date : 29-OCT-2000 19:29
Operator : SUEZ
Cpnd Sublist: PCB8082+

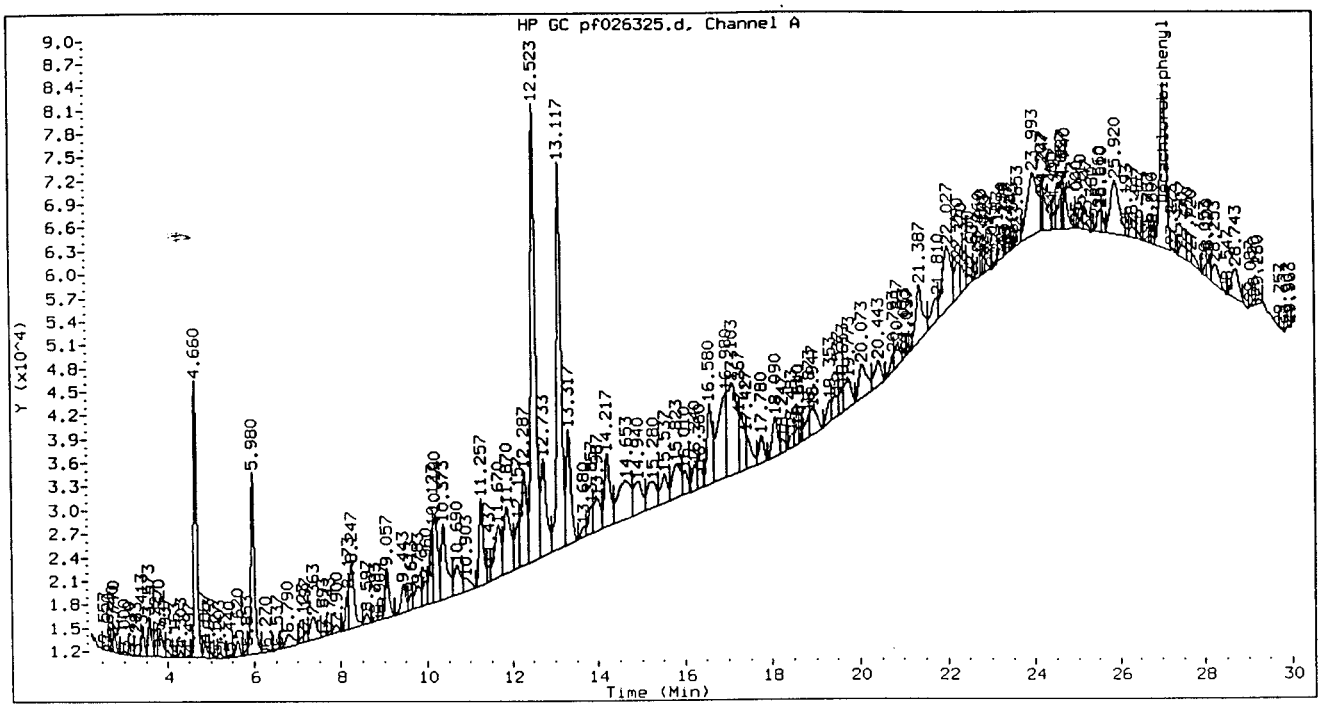
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Decachlorobiphenyl	(M)	25.547	25.483	0.063	119270	57.565	40.017

COMMENTS:

M - Compound response manually integrated.

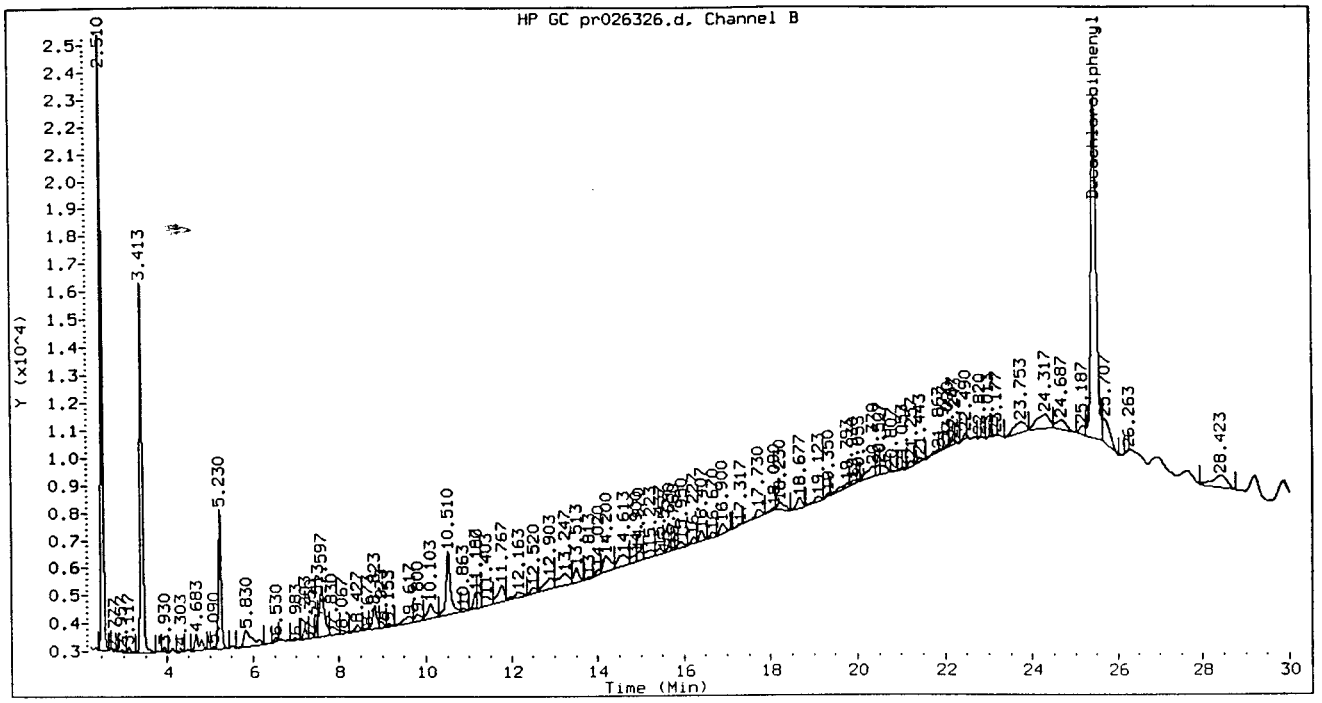
Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-29-00/29oct00a.b/pf026325.d Page 1
Report Date 10/31/2000 10:58



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-29-00/29oct00a.b/Pf8082.m
Sample Info : 237828;15;10;;4.1
Lab ID : 237828
Inj Date : 29-OCT-2000 19:29
Operator : SUEZ 11/01/00
Cpnd Sublist: PCB8082+

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Decachlorobiphenyl	27.070	26.980	0.090	206523	38.829	26.993



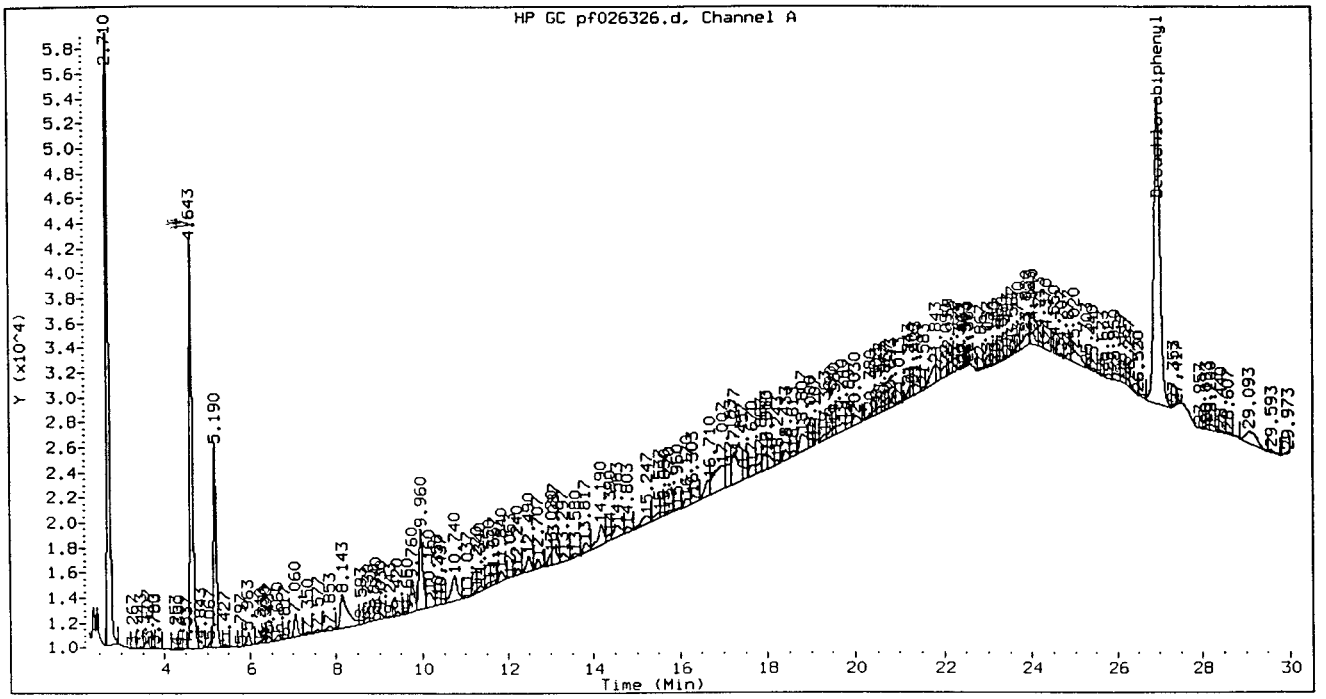
Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-29-00/29oct00a.b/Pr8082.m
Sample Info : 237829;15;10;;40.4
Lab ID : 237829 Inst ID : PESTGC5.i
Inj Date : 29-OCT-2000 20:01 Dil Factor : 1
Operator : SUEZ 12 10/31/00 Sample Matrix : SOIL
Cpnd Sublist: PCB8082+ Sample Type: SAMPLE

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Decachlorobiphenyl	(M)	25.467	25.483	0.017	106531	51.416	57.513

COMMENTS:

M - Compound response manually integrated.

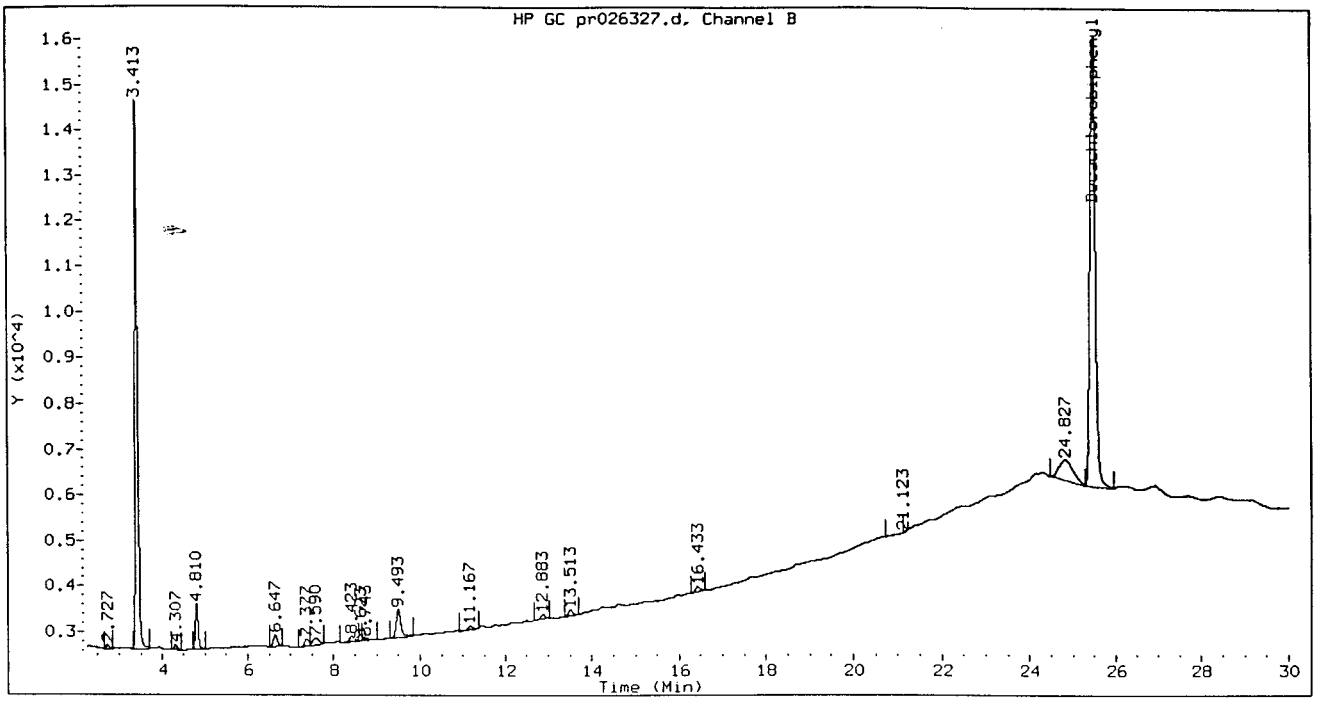
Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-29-00/29oct00a.b/pf026326.d Page 1
Report Date 10/31/2000 10:58



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-29-00/29oct00a.b/Pf8082.m
Sample Info : 237829;15;10;;40.4
Lab ID : 237829 Inst ID : PESTGC5.i
Inj Date : 29-OCT-2000 20:01 Dil Factor : 1
Operator : SUEZ sz 10/31/00 Sample Matrix : SOIL
Cpnd Sublist: PCB8082+ Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Decachlorobiphenyl	26.960	26.980	0.020	242224	45.541	50.941

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-29-00/29oct00a.b/pr026327.d Page 1
Report Date 10/31/2000 10:58

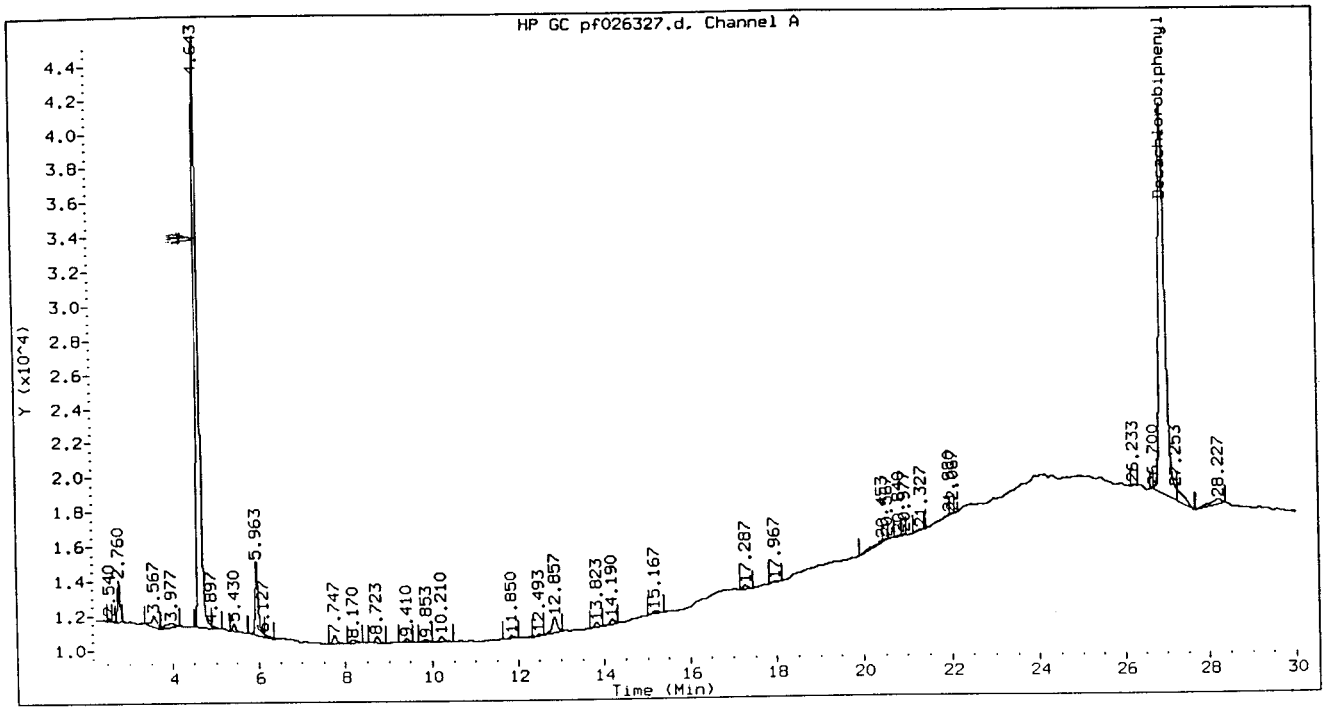


Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-29-00/29oct00a.b/Pr8082.m
Sample Info : 237839;15;10;;7.8
Lab ID : 237839 Inst ID : PESTGC5.i
Inj Date : 29-OCT-2000 20:32 Dil Factor : 1
Operator : SUEZ 11/21/00 Sample Matrix : SOIL
Cpnd Sublist: PCB8082+ Sample Type: SAMPLE

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/kg)
Decachlorobiphenyl	(M)	25.470	25.483	0.013	86472	41.735	30.177

COMMENTS:

M - Compound response manually integrated.



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-29-00/29oct00a.b/Pf8082.m
Sample Info : 237839;15;10;;7.8
Lab ID : 237839
Inj Date : 29-OCT-2000 20:32
Operator : SUEZ 10/31/00
Cpnd Sublist: PCB8082+

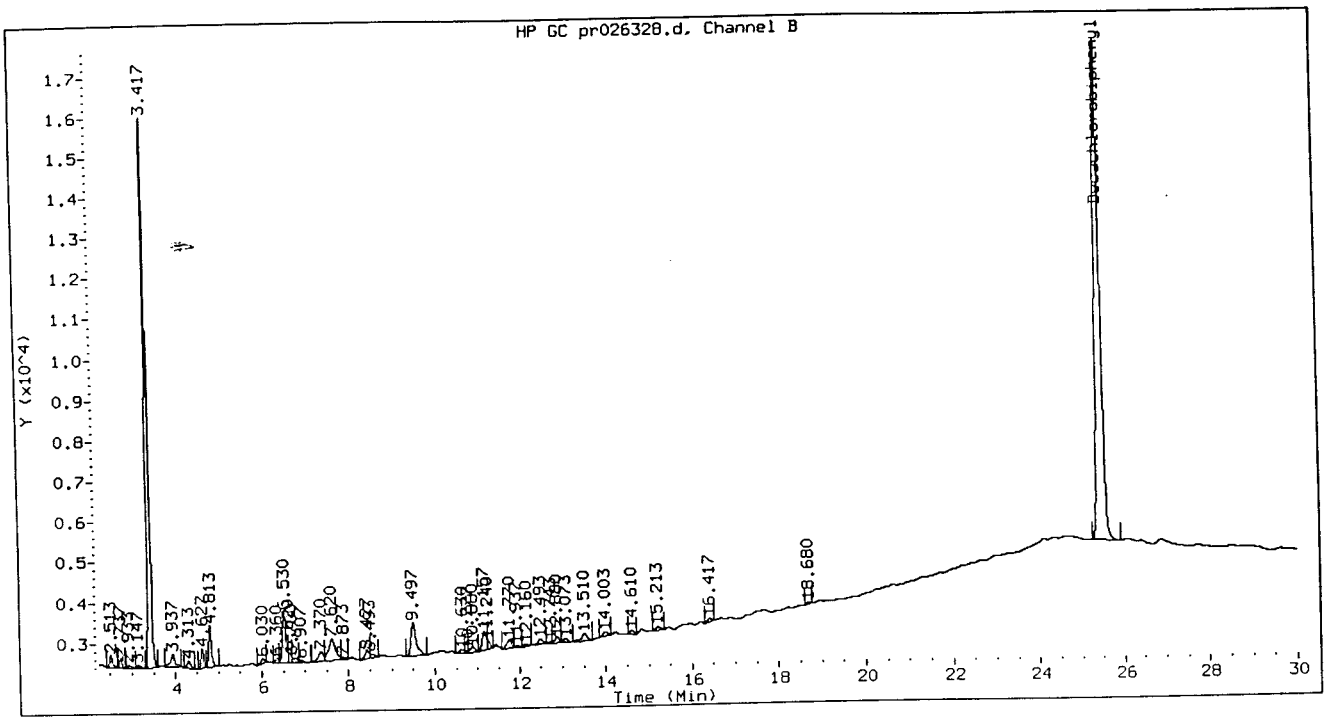
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Decachlorobiphenyl	(M)	26.960	26.980	0.020	235148	44.211	31.967

COMMENTS:

M - Compound response manually integrated.

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-29-00/29oct00a.b/pr026328.d Page 1
Report Date 10/31/2000 10:58



Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-29-00/29oct00a.b/Pr8082.m
Sample Info : 237827;15;10;;6.8
Lab ID : 237827
Inj Date : 29-OCT-2000 21:03
Operator : SUEZ 11/31/00
Cpnd Sublist: PCB8082+

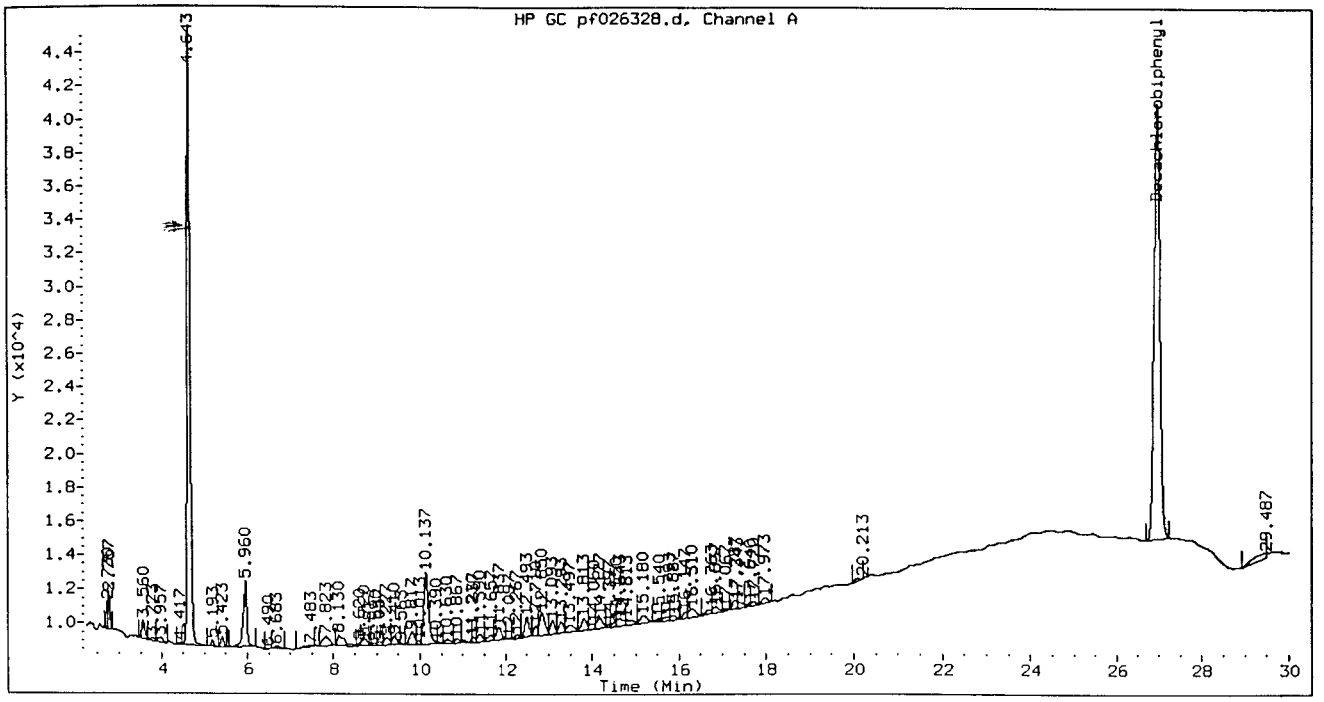
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Decachlorobiphenyl	(M)	25.470	25.483	0.013	106333	51.321	36.710

COMMENTS:

M - Compound response manually integrated.

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-29-00/29oct00a.b/pf026328.d Page 1
Report Date 10/31/2000 10:59



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-29-00/29oct00a.b/Pf8082.m
Sample Info : 237827;15;10;;6.8
Lab ID : 237827 Inst ID : PESTGC5.i
Inj Date : 29-OCT-2000 21:03 Dil Factor : 1
Operator : SUEZ 10/31/00 Sample Matrix : SOIL
Cpnd Sublist: PCB8082+ Sample Type: SAMPLE

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Decachlorobiphenyl	(M)	26.953	26.980	0.027	247118	46.461	33.234

COMMENTS:

M - Compound response manually integrated.

MULTICOMPONENT COMPOUND CONTINUING CALIBRATION REPORT

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-29-00/29oct00b.b/pr026331.d
Method: /chem1/PESTGC5.i/8082/rear/Oct00/10-29-00/29oct00b.b/Pr8082.m

Sample Information: 1016/1260-1000b
Injection Date: 29-OCT-2000 23:36

Compound	Signal No.	RT	Exp Conc	Actual Conc	Percent Diff.
Aroclor-1016	1	4.937	1000	1089.98	9.00
Aroclor-1016	2	6.153	1000	1076.44	7.64
Aroclor-1016	3	7.100	1000	1064.80	6.48
Aroclor-1016	4	7.333	1000	1021.79	2.18
Aroclor-1016	5	7.893	1000	1027.54	2.75
Aroclor-1016	6	8.617	1000	1146.25	14.62
Aroclor-1016	7	9.630	1000	1148.31	14.83
Aroclor-1016	8	10.097	1000	1005.56	0.56
Aroclor-1260	1	14.243	1000	1068.82	6.88
Aroclor-1260	2	16.433	1000	1089.42	8.94
Aroclor-1260	3	16.573	1000	1070.75	7.08
Aroclor-1260	4	16.843	1000	1133.62	13.36
Aroclor-1260	5	18.090	1000	1106.93	10.69
Aroclor-1260	6	18.707	1000	1099.24	9.92
Aroclor-1260	7	20.647	1000	1098.89	9.89
Aroclor-1260	8	22.660	1000	1113.89	11.39

Surrogate	RT	Exp Conc	Actual Conc	Percent Diff.
Tetrachloro-m-xylene	3.417	100	114.74	14.74
Decachlorobiphenyl	25.480	100	107.79	7.79

GC ORGANICS RETENTION TIME CHECK

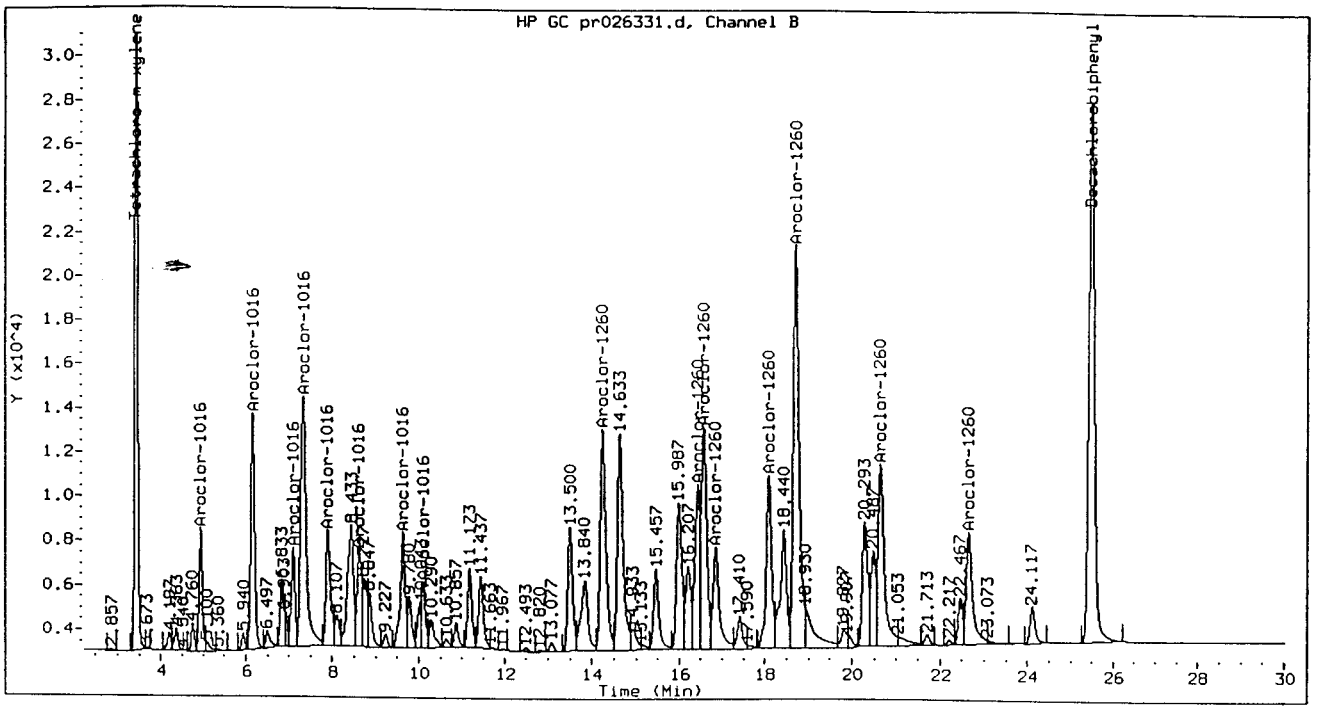
Instrument ID: PESTGC5.i

Midpoint Calibration File: /chem1/PESTGC5.i/8082/rear/Oct00/10-24-00/24oct00c.b/pr026199.d
Injection Date: 24-OCT-2000 20:38

Continuing Calibration File: /chem1/PESTGC5.i/8082/rear/Oct00/10-29-00/29oct00b.b/pr026331.d
Injection Date: 29-OCT-2000 23:36

Compound	Init Cal RT	RT Range	Cont Cal RT	Flags
Aroclor-1016	4.907	(4.837 - 4.977)	4.937	
	6.120	(6.050 - 6.190)	6.153	
	7.063	(6.993 - 7.133)	7.100	
	7.300	(7.230 - 7.370)	7.333	
	7.857	(7.787 - 7.927)	7.893	
	8.580	(8.510 - 8.650)	8.617	
	9.593	(9.523 - 9.663)	9.630	
	10.053	(9.983 - 10.123)	10.097	
Aroclor-1260	14.207	(14.137 - 14.277)	14.243	
	16.393	(16.323 - 16.463)	16.433	
	16.537	(16.467 - 16.607)	16.573	
	16.807	(16.737 - 16.877)	16.843	
	18.053	(17.983 - 18.123)	18.090	
	18.670	(18.600 - 18.740)	18.707	
	20.610	(20.540 - 20.680)	20.647	
	22.620	(22.550 - 22.690)	22.660	
Tetrachloro-m-xylene	3.390	(3.340 - 3.440)	3.417	
Decachlorobiphenyl	25.437	(25.337 - 25.537)	25.480	

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-29-00/29oct00b.b/pr026331.d Page 1
Report Date 11/01/2000 12:53



Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-29-00/29oct00b.b/Pr8082.m
Sample Info : 1016/1260-1000b
Lab ID : 1016/1260-1000b
Inj Date : 29-OCT-2000 23:36
Operator : SUEZ 11/01/00
Cpnd Sublist: AR16600S

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CCALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1016	(M)	4.937	4.937	0.000	29886	1089.982	1089.982
(2)		6.153	6.153	0.000	67630	1076.444	1076.444
(3)		7.100	7.100	0.000	27659	1064.804	1064.804
(4)		7.333	7.333	0.000	104349	1021.794	1021.794
(5)		7.893	7.893	0.000	38892	1027.537	1027.537
(6)		8.617	8.617	0.000	31596	1146.245	1146.245
(7)		9.630	9.630	0.000	41434	1148.307	1148.307
(8)		10.097	10.097	0.000	19207	1005.556	1005.556
Average of peak concentrations:							1100.00
Aroclor-1260	(M)	14.243	14.243	0.000	88741	1068.816	1068.816
(2)		16.433	16.433	0.000	61532	1089.419	1089.419
(3)		16.573	16.573	0.000	87201	1070.750	1070.750
(4)		16.843	16.843	0.000	46733	1133.619	1133.619
(5)		18.090	18.090	0.000	68402	1106.934	1106.934
(6)		18.707	18.707	0.000	169880	1099.242	1099.242

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
(7)		20.647	20.647	0.000	82951	1098.888	1098.888
(8)		22.660	22.660	0.000	51133	1113.886	1113.886
Average of peak concentrations:							1100.00
Tetrachloro-m-xylene	(M)	3.417	3.417	0.000	156183	114.736	114.736
Decachlorobiphenyl	(M)	25.480	25.480	0.000	223332	107.789	107.789

COMMENTS:

M - Compound response manually integrated.

MULTICOMPONENT COMPOUND CONTINUING CALIBRATION REPORT

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-29-00/29oct00b.b/pf026331.d
Method: /chem1/PESTGC5.i/8082/front/Oct00/10-29-00/29oct00b.b/Pf8082.m

Sample Information: 1016/1260-1000b
Injection Date: 29-OCT-2000 23:36

Compound	Signal No.	RT	Exp Conc	Actual Conc	Percent Diff.
Aroclor-1016	1	5.547	1000	1113.05	11.31
Aroclor-1016	2	6.757	1000	1097.15	9.72
Aroclor-1016	3	7.367	1000	1140.99	14.10
Aroclor-1016	4	8.257	1000	1070.48	7.05
Aroclor-1016	5	9.423	1000	1104.24	10.42
Aroclor-1016	6	9.597	1000	1149.57	14.96
Aroclor-1016	7	10.200	1000	1149.52	14.95
Aroclor-1016	8	10.670	1000	1111.57	11.16
Aroclor-1260	1	15.157	1000	1060.91	6.09
Aroclor-1260	2	16.157	1000	978.97	2.10
Aroclor-1260	3	17.297	1000	1036.83	3.68
Aroclor-1260	4	17.973	1000	1021.15	2.12
Aroclor-1260	5	18.937	1000	1030.95	3.10
Aroclor-1260	6	21.327	1000	1047.73	4.77
Aroclor-1260	7	21.867	1000	1051.08	5.11
Aroclor-1260	8	23.903	1000	1050.82	5.08

Surrogate	RT	Exp Conc	Actual Conc	Percent Diff.
Tetrachloro-m-xylene	4.647	100	122.70	22.70<-
Decachlorobiphenyl	26.970	100	108.49	8.49

GC ORGANICS RETENTION TIME CHECK

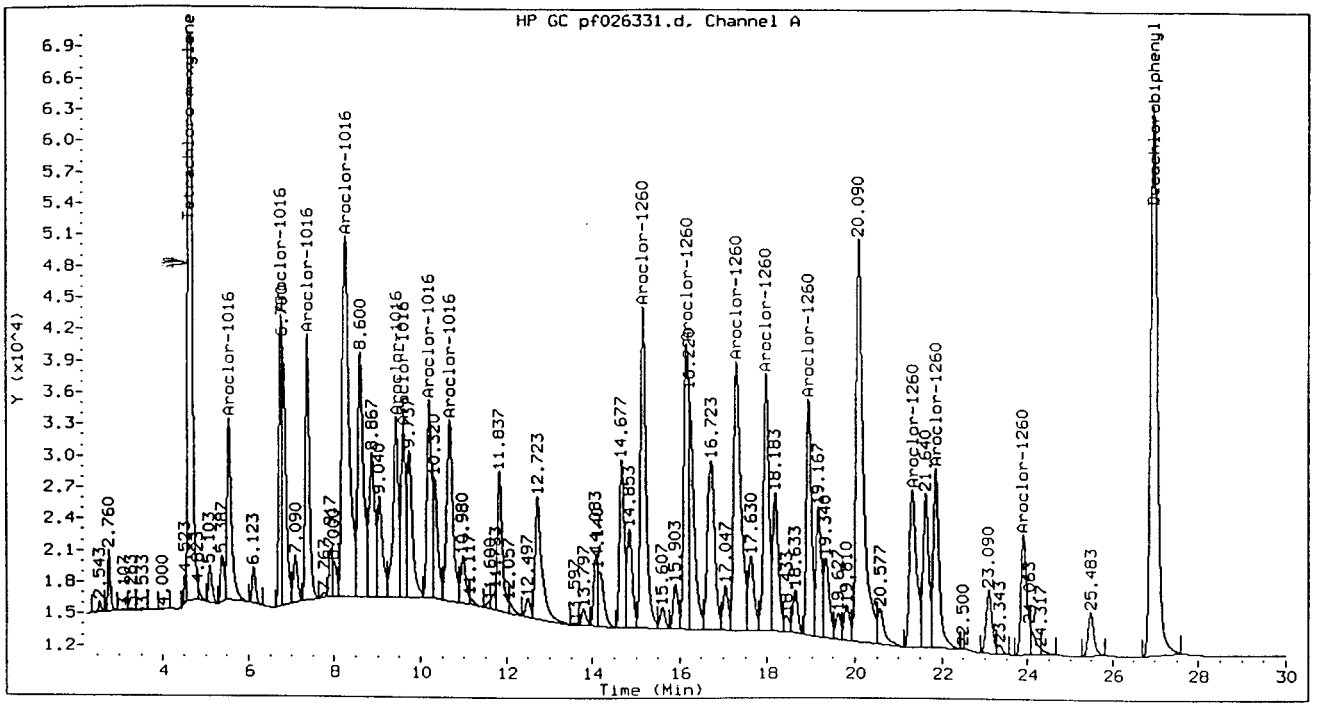
Instrument ID: PESTGC5.i

Midpoint Calibration File: /chem1/PESTGC5.i/8082/front/Oct00/10-24-00/24oct00c.b/pf026199.d
Injection Date: 24-OCT-2000 20:38

Continuing Calibration File: /chem1/PESTGC5.i/8082/front/Oct00/10-29-00/29oct00b.b/pf026331.d
Injection Date: 29-OCT-2000 23:36

Compound	Init Cal RT	RT Range	Cont Cal RT	Flags
Aroclor-1016	5.513	(5.443 - 5.583)	5.547	
	6.723	(6.653 - 6.793)	6.757	
	7.330	(7.260 - 7.400)	7.367	
	8.217	(8.147 - 8.287)	8.257	
	9.383	(9.313 - 9.453)	9.423	
	9.553	(9.483 - 9.623)	9.597	
	10.157	(10.087 - 10.227)	10.200	
	10.630	(10.560 - 10.700)	10.670	
Aroclor-1260	15.117	(15.047 - 15.187)	15.157	
	16.113	(16.043 - 16.183)	16.157	
	17.253	(17.183 - 17.323)	17.297	
	17.930	(17.860 - 18.000)	17.973	
	18.893	(18.823 - 18.963)	18.937	
	21.280	(21.210 - 21.350)	21.327	
	21.827	(21.757 - 21.897)	21.867	
	23.863	(23.793 - 23.933)	23.903	
Tetrachloro-m-xylene	4.617	(4.567 - 4.667)	4.647	
Decachlorobiphenyl	26.920	(26.820 - 27.020)	26.970	

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-29-00/29oct00b.b/pf026331.d Page 1
Report Date 11/01/2000 12:53



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-29-00/29oct00b.b/Pf8082.m
Sample Info : 1016/1260-1000b
Lab ID : 1016/1260-1000b
Inj Date : 29-OCT-2000 23:36
Operator : SUEZ 11/01/00
Cpnd Sublist: AR16600S

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CCALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1016	(M)	5.547	5.547	0.000	123403	1113.050	1113.050
(2)		6.757	6.757	0.000	139280	1097.151	1097.151
(3)		7.367	7.367	0.000	171078	1140.992	1140.992
(4)		8.257	8.257	0.000	395639	1070.479	1070.479
(5)		9.423	9.423	0.000	142107	1104.244	1104.244
(6)		9.597	9.597	0.000	117480	1149.575	1149.575
(7)		10.200	10.200	0.000	144305	1149.525	1149.525
(8)		10.670	10.670	0.000	169969	1111.569	1111.569
Average of peak concentrations:							1100.00
Aroclor-1260	(M)	15.157	15.157	0.000	271789	1060.906	1060.906
(2)		16.157	16.157	0.000	207716	978.969	978.969
(3)		17.297	17.297	0.000	290206	1036.831	1036.831
(4)		17.973	17.973	0.000	211795	1021.153	1021.153
(5)		18.937	18.937	0.000	181876	1030.952	1030.952
(6)		21.327	21.327	0.000	171812	1047.729	1047.729

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/kg)
(7)		21.867	21.867	0.000	162403	1051.085	1051.085
(8)		23.903	23.903	0.000	110875	1050.822	1050.822
Average of peak concentrations:							1000.00
Tetrachloro-m-xylene	(M)	4.647	4.647	0.000	676445	122.698	122.698
Decachlorobiphenyl		26.970	26.970	0.000	577062	108.495	108.495

COMMENTS:
M - Compound response manually integrated.

GC ORGANICS INITIAL CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-608 Primary Column

Calibration Files:

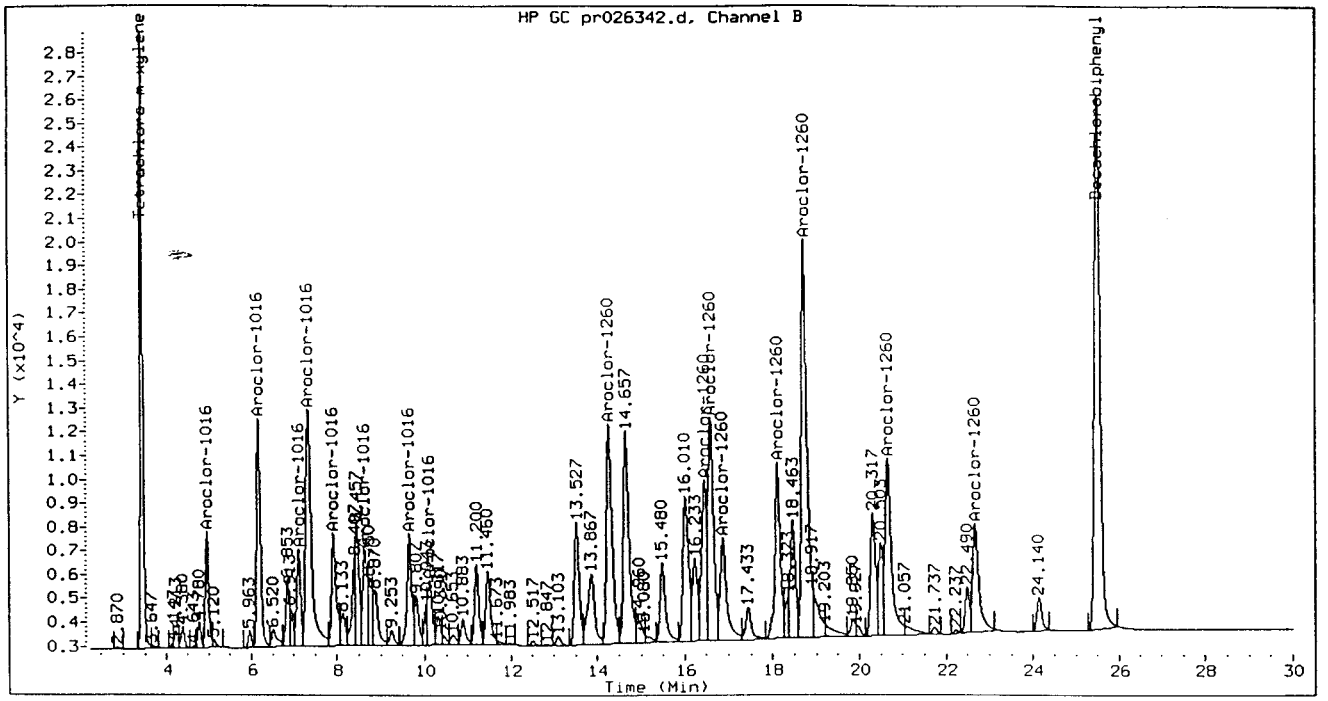
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/chem1/PESTGC5.i/8082/rear/Oct00/10-30-00/30oct00a.b/pr026346.d

Compound		Level 1	Level 2	Level 3	Level 4	Level 5	Coefficients a0	Coefficients a1	Coefficients a2	%RSD or R^2
Aroclor-1016	1	24.39	26.75	25.73	25.64	25.04		25.51		3.44562
	2	70.96	65.30	61.61	60.23	57.34		63.09		8.31975
	3	23.87	26.12	26.04	26.54	26.55		25.82		4.32174
	4	83.94	92.96	93.98	97.38	99.55		93.56		6.40140
	5	31.34	35.06	35.62	37.21	38.14		35.47		7.37931
	6	26.61	28.65	29.50	28.03	27.76		28.11		3.81624
	7	32.63	33.91	34.18	36.24	35.13		34.42		3.94223
	8	17.34	19.82	20.44	21.26	21.85		20.14		8.66616
Aroclor-1260	1	80.82	82.77	82.46	79.89	78.17		80.82		2.34541
	2	46.67	53.23	55.56	54.06	58.57		53.62		8.18052
	3	88.44	84.02	81.52	80.34	77.05		82.27		5.18153
	4	34.43	40.71	43.09	42.95	41.51		40.54		8.77375
	5	66.65	64.17	63.22	62.51	63.19		63.95		2.53544
	6	127.77	146.02	149.26	156.03	161.18		148.05		8.62941
	7	61.54	70.22	75.54	76.71	79.14		72.63		9.64546
	8	41.53	41.61	45.25	46.95	48.91		44.85		7.27226
Tetrachloro-m-xylene		936.44	1043.66	1145.80	1137.61	1200.77		1092.86		9.52447
Decachlorobiphenyl		1927.12	2007.70	2027.50	1940.10	2008.08		1982.10		2.28126

Comments:

* = %RSD exceeded maximum upper limit. Linear regression used for quantitation.

+ = Multi-component peak not used in calibration of compound.



Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-30-00/30oct00a.b/Pr8082.m
Sample Info : 1016/1260-1000a
Lab ID : 1016/1260-1000a
Inj Date : 30-OCT-2000 15:14
Operator : SK 11/1/00
Cpnd Sublist: AR16600S

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

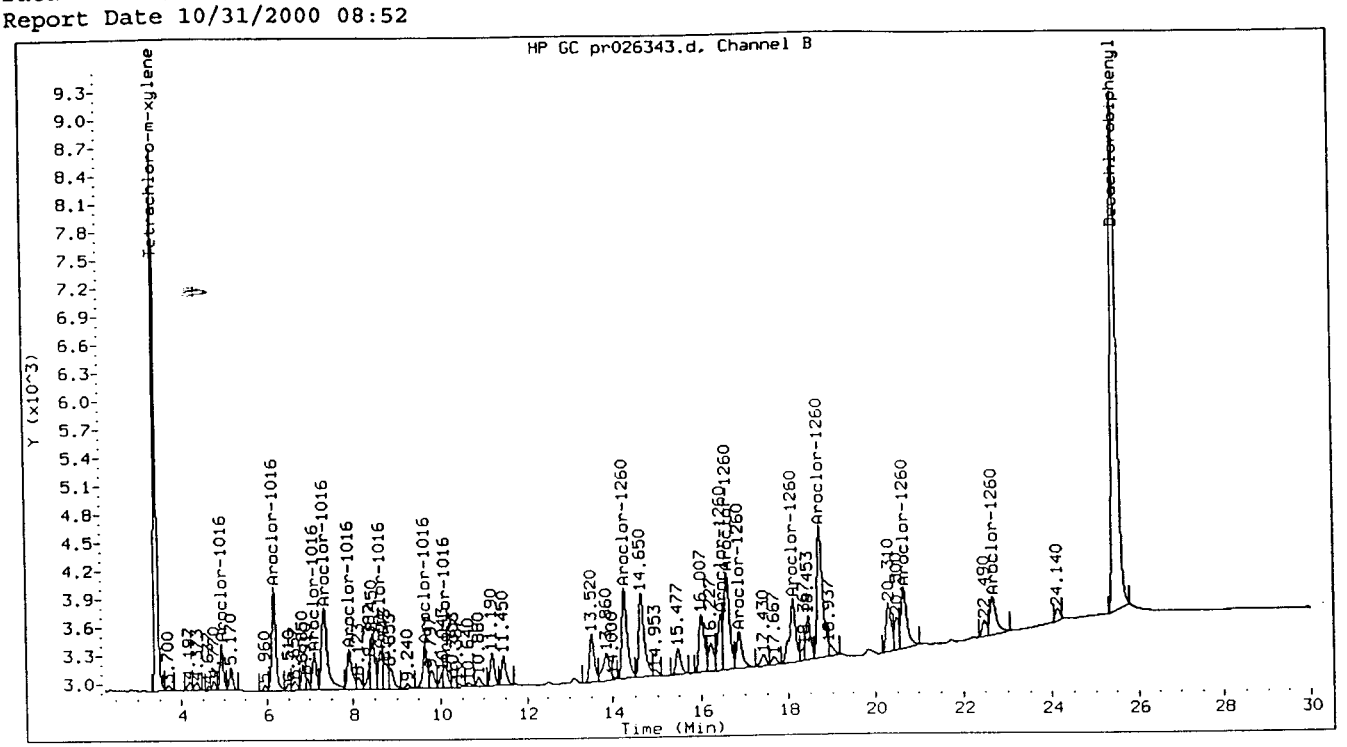
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/kg)
Aroclor-1016	(M)	4.957	4.957	0.000	25732	1008.700	1008.700
(2)		6.173	6.173	0.000	61613	976.588	976.588
(3)		7.120	7.120	0.000	26042	1008.506	1008.506
(4)		7.357	7.357	0.000	93980	1004.477	1004.477
(5)		7.917	7.917	0.000	35615	1004.029	1004.029
(6)		8.640	8.640	0.000	29501	1049.494	1049.494
(7)		9.653	9.653	0.000	34177	992.992	992.992
(8)		10.120	10.120	0.000	20436	1014.719	1014.719
Average of peak concentrations:							1000.00
Aroclor-1260	(M)	14.267	14.267	0.000	82459	1020.266	1020.266
(2)		16.457	16.457	0.000	55564	1036.281	1036.281
(3)		16.597	16.597	0.000	81516	990.804	990.804
(4)		16.870	16.870	0.000	43087	1062.898	1062.898
(5)		18.113	18.113	0.000	63218	988.580	988.580
(6)		18.730	18.730	0.000	149257	1008.140	1008.140

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/kg)
(7)		20.667	20.667	0.000	75542	1040.081	1040.081
(8)		22.677	22.677	0.000	45246	1008.886	1008.886
Average of peak concentrations:							1000.00
Tetrachloro-m-xylene	(M)	3.430	3.430	0.000	114580	104.844	104.844
Decachlorobiphenyl		25.503	25.503	0.000	202750	102.290	102.290

COMMENTS:

M - Compound response manually integrated.

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-30-00/30oct00a.b/pr026343.d Page 1
Report Date 10/31/2000 08:52



Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-30-00/30oct00a.b/Pr8082.m
Sample Info : 1016/1260-100a
Lab ID : 1016/1260-100a
Inj Date : 30-OCT-2000 15:46
Operator : SK 11/1/00
Cpnd Sublist: AR16600S

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_1

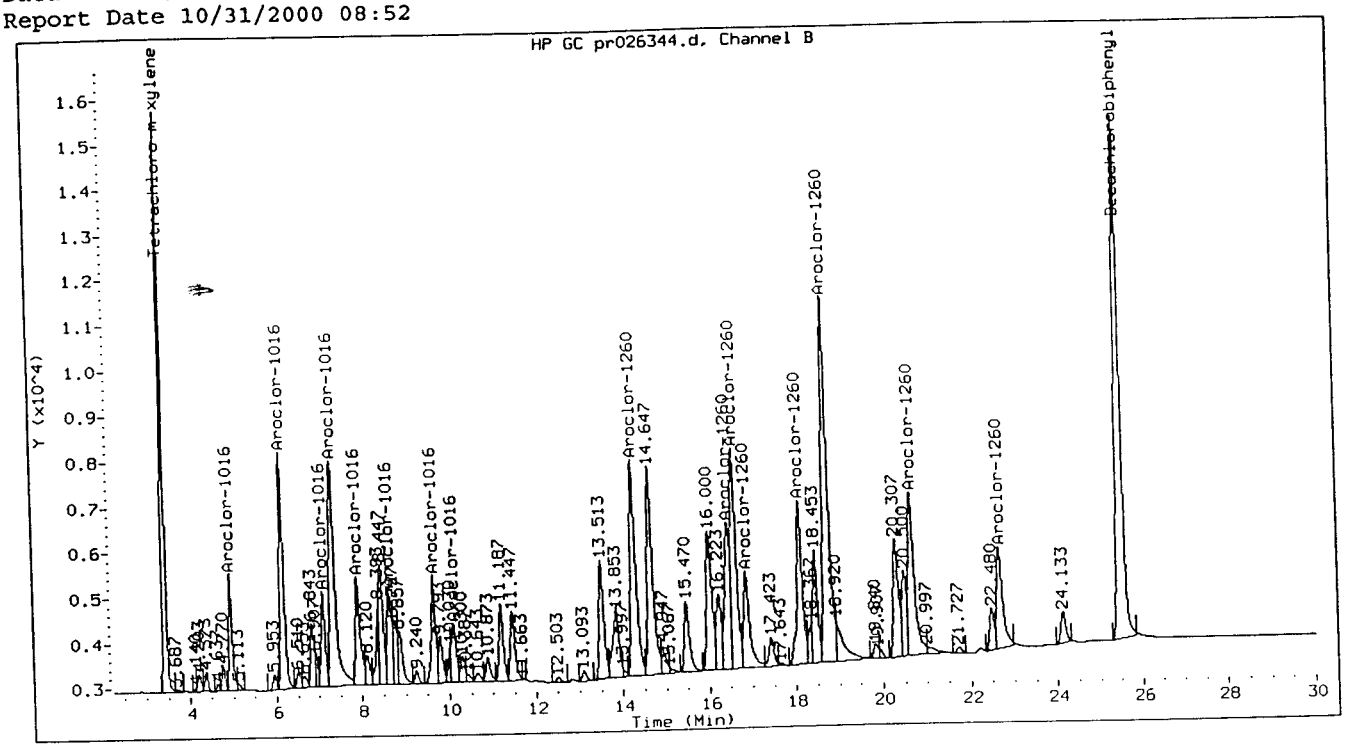
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1016	(M)	4.953	4.957	0.003	2439	95.609	95.609
(2)		6.167	6.173	0.007	7096	112.474	112.474
(3)		7.113	7.120	0.007	2387	92.439	92.439
(4)		7.347	7.357	0.010	8394	89.717	89.717
(5)		7.910	7.917	0.007	3134	88.351	88.351
(6)		8.630	8.640	0.010	2661	94.665	94.665
(7)		9.647	9.653	0.007	3263	94.804	94.804
(8)		10.110	10.120	0.010	1734	86.099	86.099
Average of peak concentrations:							94.00
Aroclor-1260	(M)	14.263	14.267	0.003	8082	99.999	99.999
(2)		16.450	16.457	0.007	4667	87.041	87.041
(3)		16.593	16.597	0.003	8844	107.496	107.496
(4)		16.863	16.870	0.007	3443	84.934	84.934
(5)		18.103	18.113	0.010	6665	104.225	104.225
(6)		18.720	18.730	0.010	12777	86.301	86.301

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/kg)
(7)		20.660	20.667	0.007	6154	84.730	84.730
(8)		22.673	22.677	0.003	4153	92.603	92.603
Average of peak concentrations:							93.00
Tetrachloro-m-xylene	(M)	3.427	3.430	0.003	23411	21.422	21.422
Decachlorobiphenyl		25.493	25.503	0.010	48178	24.307	24.307

COMMENTS:

M - Compound response manually integrated.

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-30-00/30oct00a.b/pr026344.d Page 1
Report Date 10/31/2000 08:52



Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-30-00/30oct00a.b/Pr8082.m
Sample Info : 1016/1260-500a
Lab ID : 1016/1260-500a
Inj Date : 30-OCT-2000 16:17
Operator : SK 11/1/00
Cpnd Sublist: AR16600S

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_2

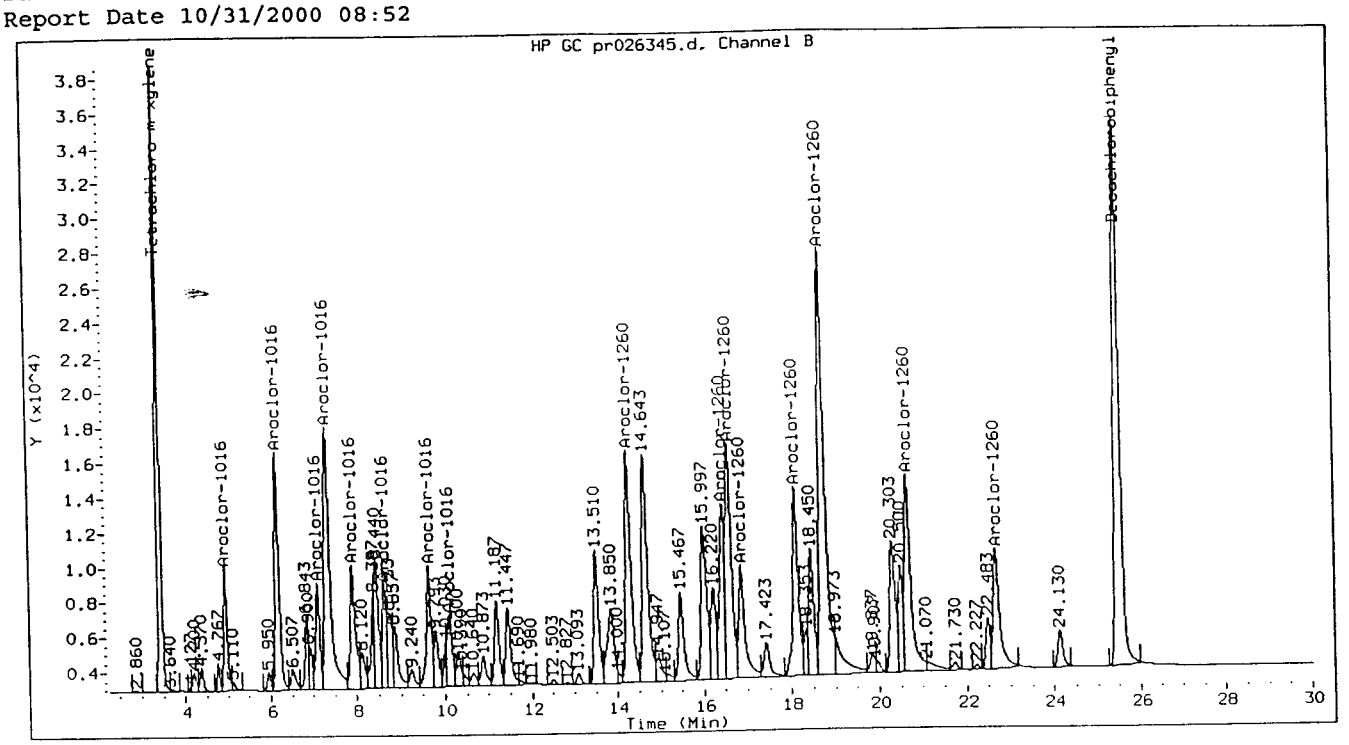
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1016	(M)	4.947	4.957	0.010	13377	524.381	524.381
(2)		6.163	6.173	0.010	32651	517.530	517.530
(3)		7.110	7.120	0.010	13058	505.686	505.686
(4)		7.343	7.357	0.013	46481	496.798	496.798
(5)		7.903	7.917	0.013	17528	494.135	494.135
(6)		8.627	8.640	0.013	14324	509.574	509.574
(7)		9.640	9.653	0.013	16953	492.559	492.559
(8)		10.107	10.120	0.013	9910	492.066	492.066
Average of peak concentrations:							500.00
Aroclor-1260	(M)	14.257	14.267	0.010	41384	512.045	512.045
(2)		16.447	16.457	0.010	26615	496.376	496.376
(3)		16.590	16.597	0.007	42009	510.608	510.608
(4)		16.857	16.870	0.013	20353	502.081	502.081
(5)		18.103	18.113	0.010	32084	501.718	501.718
(6)		18.720	18.730	0.010	73011	493.145	493.145

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/kg)
(7)		20.660	20.667	0.007	35111	483.417	483.417
(8)		22.670	22.677	0.007	20804	463.884	463.884
Average of peak concentrations:							500.00
Tetrachloro-m-xylene	(M)	3.423	3.430	0.007	52183	47.749	47.749
Decachlorobiphenyl		25.497	25.503	0.007	100385	50.646	50.646

COMMENTS:

M - Compound response manually integrated.

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-30-00/30oct00a.b/pr026345.d Page 1
Report Date 10/31/2000 08:52



Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-30-00/30oct00a.b/Pr8082.m
Sample Info : 1016/1260-1500a
Lab ID : 1016/1260-1500a
Inj Date : 30-OCT-2000 16:49
Operator : SK 31/1/00
Cpnd Sublist: AR16600S

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_4

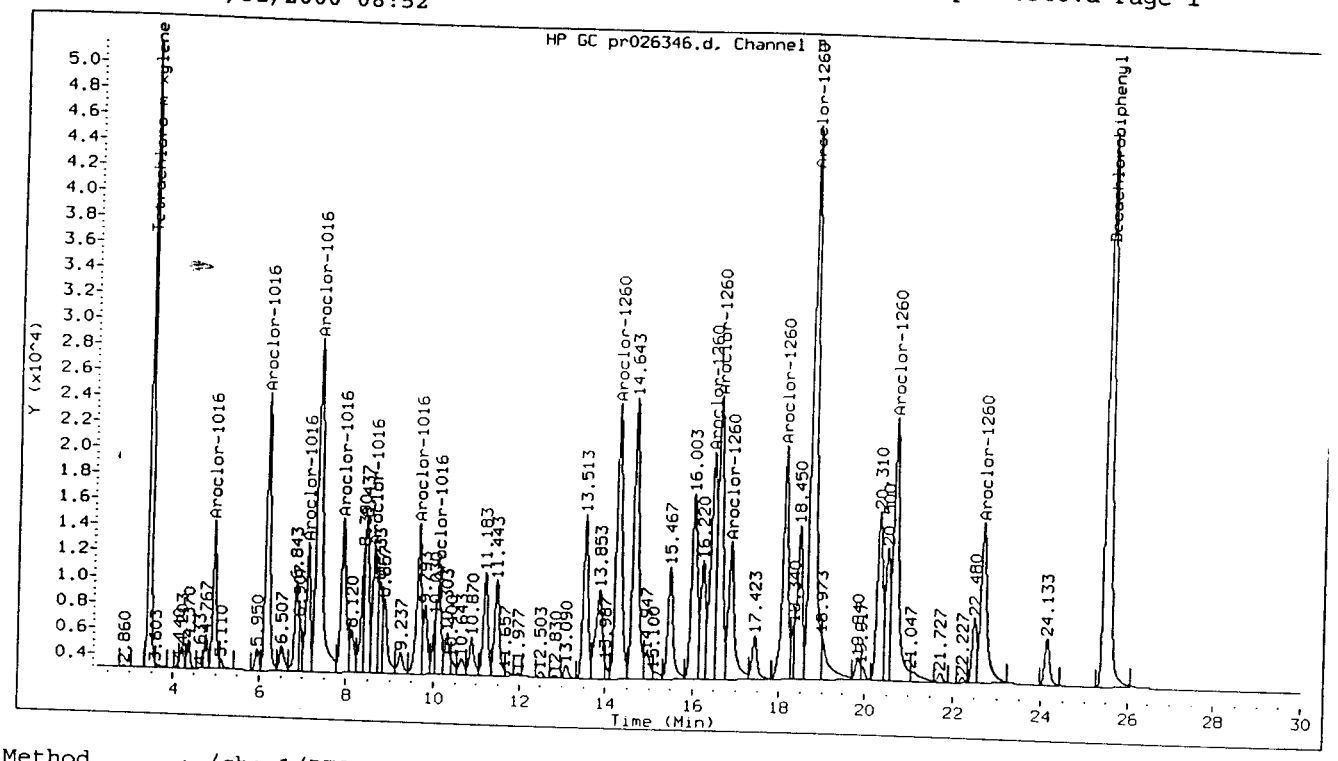
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/kg)
Aroclor-1016	(M)	4.943	4.957	0.013	38455	1507.445	1507.445
(2)		6.160	6.173	0.013	90348	1432.049	1432.049
(3)		7.107	7.120	0.013	39806	1541.533	1541.533
(4)		7.343	7.357	0.013	146067	1561.193	1561.193
(5)		7.903	7.917	0.013	55811	1573.379	1573.379
(6)		8.627	8.640	0.013	42044	1495.709	1495.709
(7)		9.640	9.653	0.013	54366	1579.571	1579.571
(8)		10.107	10.120	0.013	31885	1583.201	1583.201
Average of peak concentrations:							1500.00
Aroclor-1260	(M)	14.257	14.267	0.010	119833	1482.695	1482.695
(2)		16.443	16.457	0.013	81084	1512.235	1512.235
(3)		16.583	16.597	0.013	120513	1464.802	1464.802
(4)		16.857	16.870	0.013	64423	1589.228	1589.228
(5)		18.103	18.113	0.010	93766	1466.278	1466.278
(6)		18.717	18.730	0.013	234050	1580.864	1580.864

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/kg)
(7)		20.660	20.667	0.007	115060	1584.175	1584.175
(8)		22.670	22.677	0.007	70418	1570.167	1570.167
Average of peak concentrations:							1500.00
Tetrachloro-m-xylene	(M)	3.420	3.430	0.010	170642	156.143	156.143
Decachlorobiphenyl		25.497	25.503	0.007	291015	146.822	146.822

COMMENTS:

M - Compound response manually integrated.

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-30-00/30oct00a.b/pr026346.d Page 1
Report Date 10/31/2000 08:52



Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-30-00/30oct00a.b/Pr8082.m
Sample Info : 1016/1260-2500a
Lab ID : 1016/1260-2500a
Inj Date : 30-OCT-2000 17:20
Operator : SK 11/1/00
Cpnd Sublist: AR16600S

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_5

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1016	(M)	4.947	4.957	0.010	62594	2453.699	2453.699
(2)		6.160	6.173	0.013	143358	2272.276	2272.276
(3)		7.107	7.120	0.013	66366	2570.099	2570.099
(4)		7.347	7.357	0.010	248864	2659.908	2659.908
(5)		7.903	7.917	0.013	95355	2688.172	2688.172
(6)		8.627	8.640	0.013	69401	2468.930	2468.930
(7)		9.640	9.653	0.013	87835	2551.993	2551.993
(8)		10.107	10.120	0.013	54613	2711.726	2711.726
Average of peak concentrations:							2500.00
Aroclor-1260	(M)	14.257	14.267	0.010	195424	2417.984	2417.984
(2)		16.440	16.457	0.017	146433	2731.009	2731.009
(3)		16.587	16.597	0.010	192617	2341.206	2341.206
(4)		16.857	16.870	0.013	103787	2560.284	2560.284
(5)		18.103	18.113	0.010	157987	2470.543	2470.543
(6)		18.720	18.730	0.010	402943	2721.633	2721.633

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/kg)
(7)		20.660	20.667	0.007	197859	2724.173	2724.173
(8)		22.670	22.677	0.007	122270	2726.352	2726.352
Average of peak concentrations:							2600.00
Tetrachloro-m-xylene	(M)	3.423	3.430	0.007	240154	219.749	219.749
Decachlorobiphenyl		25.493	25.503	0.010	401616	202.621	202.621

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS INITIAL CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-5 Confirmatory Column

Calibration Files:

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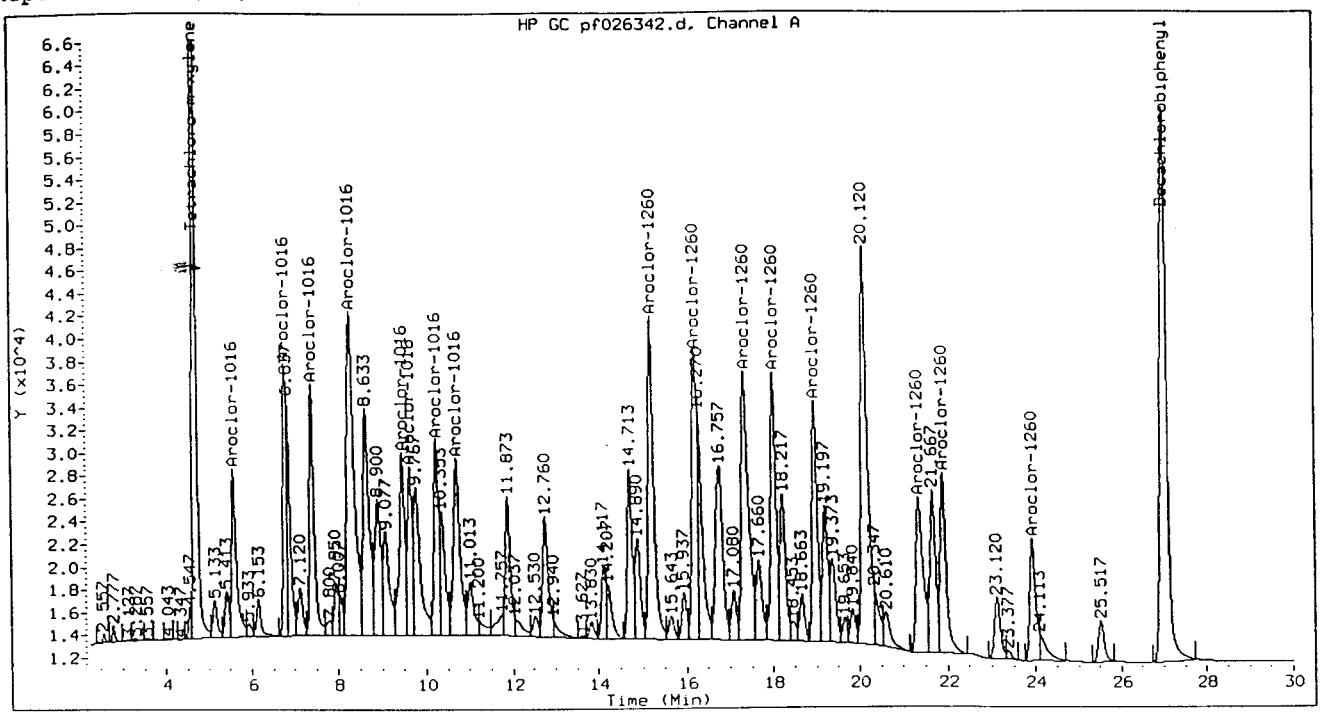
Compound		Level 1	Level 2	Level 3	Level 4	Level 5	Coefficients a0	a1	a2	%RSD or R^2
Aroclor-1016	1	122.49	120.04	115.04	116.96	102.29		115.36		6.80270
	2	152.69	138.00	140.65	131.24	123.89		137.29		7.85351
	3	166.63	166.73	162.00	155.85	147.49		159.74		5.11126
	4	327.21	357.12	338.18	339.76	333.88		339.23		3.27835
	5	156.21	148.43	141.82	132.45	122.18		140.22		9.51048
	6	116.60	115.89	109.19	104.14	97.44		108.65		7.44874
	7	125.31	137.80	130.46	132.11	120.91		129.32		5.00621
	8	141.38	163.94	166.17	159.95	155.35		157.36		6.25125
Aroclor-1260	1	287.65	276.96	257.13	244.72	237.47		260.79		8.12998
	2	234.11	224.91	214.11	200.77	208.99		216.58		6.06596
	3	269.91	283.46	271.92	271.35	281.67		275.66		2.31345
	4	245.96	226.33	208.17	201.21	199.56		216.25		9.11530
	5	175.04	180.37	174.22	173.57	176.06		175.85		1.53186
	6	142.50	159.03	157.20	159.83	168.30		157.37		5.93884
	7	133.15	156.62	155.00	160.16	156.92		152.37		7.15691
	8	90.10	105.47	105.22	106.20	110.29		103.45		7.48315
Tetrachloro-m-xylene		5261.92	5252.58	5049.45	4877.87	4946.77		5077.72		3.44492
Decachlorobiphenyl		5756.28	5681.02	5418.70	5108.23	5176.38		5428.12		5.35077

Comments:

* = %RSD exceeded maximum upper limit. Linear regression used for quantitation.

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-30-00/30oct00a.b/pf026342.d Page 1
Report Date 10/31/2000 08:47



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-30-00/30oct00a.b/Pf8082.m
Sample Info : 1016/1260-1000a
Lab ID : 1016/1260-1000a
Inj Date : 30-OCT-2000 15:14
Operator : SK 11/1/00
Cpnd Sublist: AR16600S

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

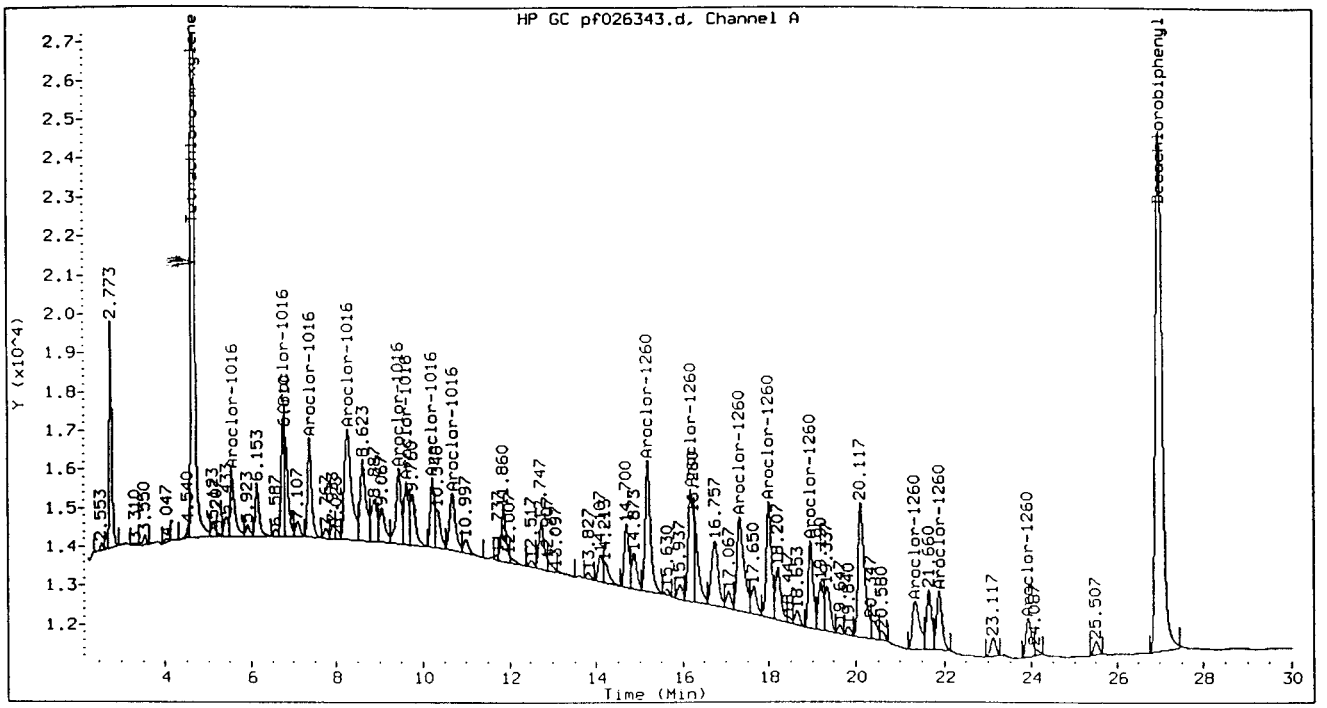
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/kg)
Aroclor-1016	(M)	5.577	5.577	0.000	115040	997.192	997.192
(2)		6.787	6.787	0.000	140646	1024.415	1024.415
(3)		7.397	7.397	0.000	162002	1014.157	1014.157
(4)		8.287	8.287	0.000	338178	996.899	996.899
(5)		9.457	9.457	0.000	141820	1011.421	1011.421
(6)		9.627	9.627	0.000	109193	1004.989	1004.989
(7)		10.233	10.233	0.000	130462	1008.848	1008.848
(8)		10.700	10.700	0.000	166167	1055.980	1055.980
Average of peak concentrations:							1000.00
Aroclor-1260	(M)	15.193	15.193	0.000	257133	985.990	985.990
(2)		16.193	16.193	0.000	214106	988.592	988.592
(3)		17.333	17.333	0.000	271916	986.414	986.414
(4)		18.007	18.007	0.000	208174	962.672	962.672
(5)		18.967	18.967	0.000	174220	990.711	990.711
(6)		21.347	21.347	0.000	157203	998.918	998.918

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
(7)	21.900	21.900	0.000	154999	1017.266	1017.266
(8)	23.933	23.933	0.000	105215	1017.024	1017.024
Average of peak concentrations:						990.00
Tetrachloro-m-xylene	4.670	4.670	0.000	504945	99.443	99.443
Decachlorobiphenyl	27.007	27.007	0.000	541870	99.826	99.826

COMMENTS:

M - Compound response manually integrated.

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-30-00/30oct00a.b/pf026343.d Page 1
Report Date 10/31/2000 08:47



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-30-00/30oct00a.b/Pf8082.m
Sample Info : 1016/1260-100a
Lab ID : 1016/1260-100a
Inj Date : 30-OCT-2000 15:46
Operator : SK 11/1/00
Cpnd Sublist: AR16600S
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_1

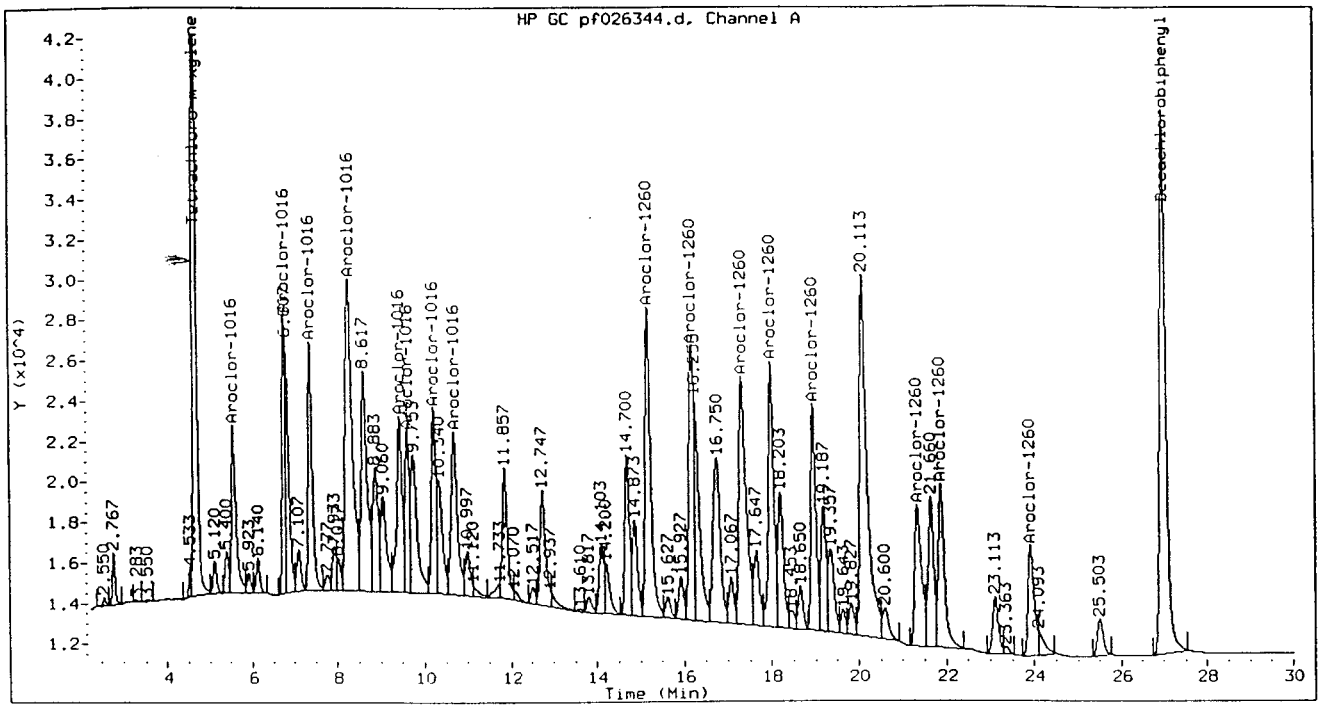
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1016	(M)	5.567	5.577	0.010	12249	106.177	106.177
(2)		6.777	6.787	0.010	15269	111.214	111.214
(3)		7.387	7.397	0.010	16663	104.313	104.313
(4)		8.273	8.287	0.013	32721	96.457	96.457
(5)		9.447	9.457	0.010	15621	111.405	111.405
(6)		9.620	9.627	0.007	11660	107.316	107.316
(7)		10.220	10.233	0.013	12531	96.901	96.901
(8)		10.693	10.700	0.007	14138	89.846	89.846
Average of peak concentrations:							100.00
Aroclor-1260	(M)	15.183	15.193	0.010	28765	110.301	110.301
(2)		16.187	16.193	0.007	23411	108.096	108.096
(3)		17.323	17.333	0.010	26991	97.914	97.914
(4)		18.000	18.007	0.007	24596	113.741	113.741
(5)		18.960	18.967	0.007	17504	99.537	99.537
(6)		21.340	21.347	0.007	14250	90.549	90.549

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/kg)
(7)		21.890	21.900	0.010	13315	87.387	87.387
(8)		23.930	23.933	0.003	9010	87.092	87.092
Average of peak concentrations:							99.00
Tetrachloro-m-xylene	(M)	4.660	4.670	0.010	131548	25.907	25.907
Decachlorobiphenyl		26.990	27.007	0.017	143907	26.511	26.511

COMMENTS:

M - Compound response manually integrated.

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-30-00/30oct00a.b/pf026344.d Page 1
Report Date 10/31/2000 08:48



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-30-00/30oct00a.b/Pf8082.m
Sample Info : 1016/1260-500a
Lab ID : 1016/1260-500a
Inj Date : 30-OCT-2000 16:17
Operator : SK 11/1/00
Cpnd Sublist: AR16600S
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_2

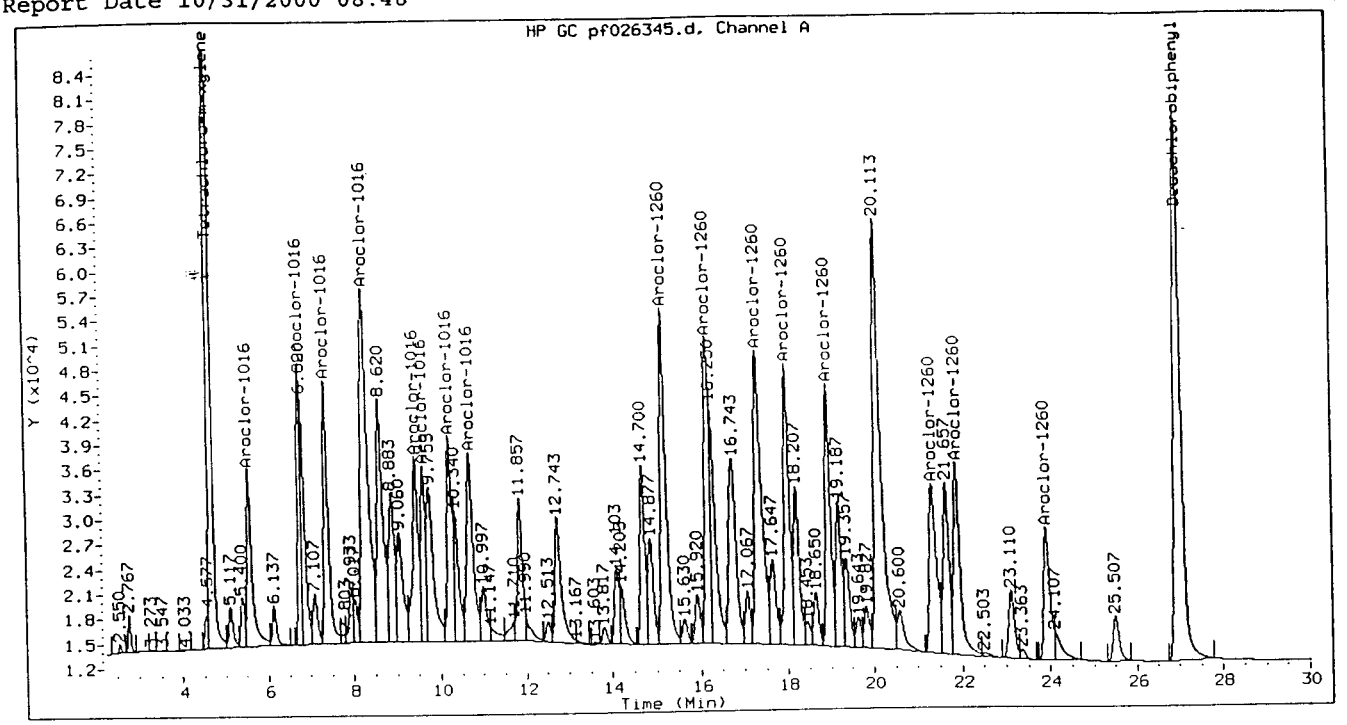
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1016	(M)	5.563	5.577	0.013	60022	520.284	520.284
(2)		6.773	6.787	0.013	69000	502.571	502.571
(3)		7.380	7.397	0.017	83365	521.878	521.878
(4)		8.270	8.287	0.017	178562	526.375	526.375
(5)		9.440	9.457	0.017	74214	529.274	529.274
(6)		9.613	9.627	0.013	57944	533.304	533.304
(7)		10.217	10.233	0.017	68898	532.780	532.780
(8)		10.690	10.700	0.010	81972	520.927	520.927
Average of peak concentrations:							520.00
Aroclor-1260	(M)	15.180	15.193	0.013	138478	531.001	531.001
(2)		16.180	16.193	0.013	112455	519.238	519.238
(3)		17.320	17.333	0.013	141730	514.146	514.146
(4)		17.993	18.007	0.013	113163	523.307	523.307
(5)		18.960	18.967	0.007	90187	512.853	512.853
(6)		21.340	21.347	0.007	79516	505.270	505.270

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/kg)
(7)		21.887	21.900	0.013	78310	513.953	513.953
(8)		23.923	23.933	0.010	52733	509.725	509.725
Average of peak concentrations:							520.00
Tetrachloro-m-xylene	(M)	4.657	4.670	0.013	262629	51.722	51.722
Decachlorobiphenyl		26.997	27.007	0.010	284051	52.330	52.330

COMMENTS:

M - Compound response manually integrated.

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-30-00/30oct00a.b/pf026345.d Page 1
Report Date 10/31/2000 08:48



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-30-00/30oct00a.b/Pf8082.m
Sample Info : 1016/1260-1500a
Lab ID : 1016/1260-1500a
Inj Date : 30-OCT-2000 16:49
Operator : SK 11/1/00
Cpnd Sublist: AR16600S

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_4

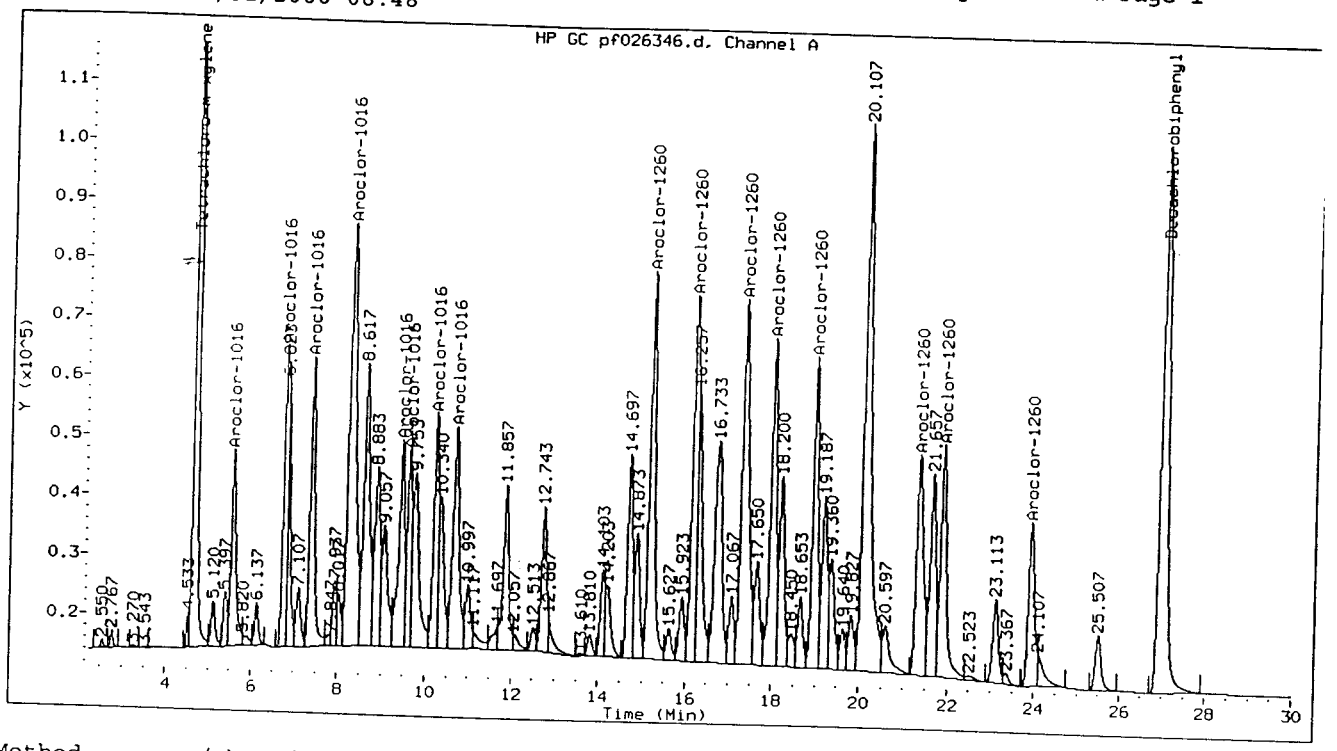
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/kg)
Aroclor-1016	(M)	5.560	5.577	0.017	175439	1520.744	1520.744
(2)		6.773	6.787	0.013	196866	1433.901	1433.901
(3)		7.383	7.397	0.013	233777	1463.480	1463.480
(4)		8.270	8.287	0.017	509641	1502.347	1502.347
(5)		9.440	9.457	0.017	198682	1416.945	1416.945
(6)		9.613	9.627	0.013	156206	1437.687	1437.687
(7)		10.217	10.233	0.017	198160	1532.349	1532.349
(8)		10.690	10.700	0.010	239930	1524.739	1524.739
Average of peak concentrations:							1500.00
Aroclor-1260	(M)	15.177	15.193	0.017	367083	1407.599	1407.599
(2)		16.177	16.193	0.017	301158	1390.537	1390.537
(3)		17.317	17.333	0.017	407020	1476.523	1476.523
(4)		17.990	18.007	0.017	301812	1395.688	1395.688
(5)		18.957	18.967	0.010	260354	1480.517	1480.517
(6)		21.340	21.347	0.007	239749	1523.442	1523.442

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/kg)
(7)		21.890	21.900	0.010	240233	1576.662	1576.662
(8)		23.923	23.933	0.010	159299	1539.808	1539.808
Average of peak concentrations:							1500.00
Tetrachloro-m-xylene	(M)	4.660	4.670	0.010	731680	144.096	144.096
Decachlorobiphenyl		26.993	27.007	0.013	766235	141.160	141.160

COMMENTS:

M - Compound response manually integrated.

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-30-00/30oct00a.b/pf026346.d Page 1
Report Date 10/31/2000 08:48



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-30-00/30oct00a.b/Pf8082.m
Sample Info : 1016/1260-2500a
Lab ID : 1016/1260-2500a
Inj Date : 30-OCT-2000 17:20
Operator : SK 5-11/1/00
Cpnd Sublist: AR16600S

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_5

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1016	(M)	5.560	5.577	0.017	255716	2216.602	2216.602
(2)		6.770	6.787	0.017	309725	2255.925	2255.925
(3)		7.383	7.397	0.013	368723	2308.262	2308.262
(4)		8.273	8.287	0.013	834692	2460.550	2460.550
(5)		9.440	9.457	0.017	305451	2178.391	2178.391
(6)		9.613	9.627	0.013	243591	2241.959	2241.959
(7)		10.217	10.233	0.017	302286	2337.543	2337.543
(8)		10.687	10.700	0.013	388365	2468.034	2468.034
Average of peak concentrations:							2300.00
Aroclor-1260	(M)	15.180	15.193	0.013	593680	2276.497	2276.497
(2)		16.177	16.193	0.017	522465	2412.378	2412.378
(3)		17.313	17.333	0.020	704182	2554.521	2554.521
(4)		17.997	18.007	0.010	498906	2307.122	2307.122
(5)		18.957	18.967	0.010	440160	2502.993	2502.993
(6)		21.340	21.347	0.007	420746	2673.555	2673.555

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
(7)		21.890	21.900	0.010	392291	2574.626	2574.626
(8)		23.923	23.933	0.010	275722	2665.170	2665.170
Average of peak concentrations:							2500.00
Tetrachloro-m-xylene	(M)	4.657	4.670	0.013	989355	194.842	194.842
Decachlorobiphenyl		26.990	27.007	0.017	1035276	190.725	190.725

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-608 Primary Column

Midpoint Calibration File:

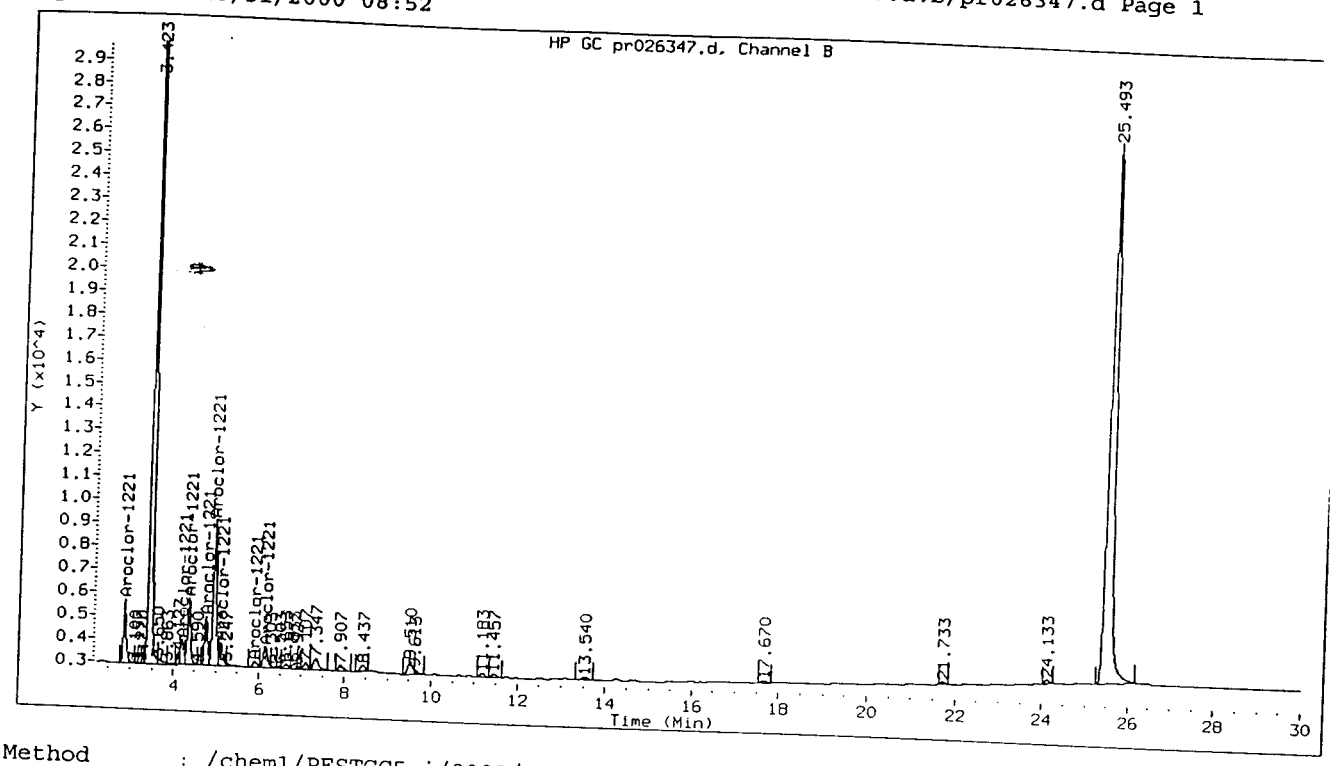
/chem1/PESTGC5.i/8082/rear/Oct00/10-30-00/30oct00a.b/pr026347.d

Compound	Midpoint Standard Response Factor
Aroclor-1221	12.98
2	6.07
3	15.34
4	10.69
5	34.06
6	5.76
7	1.82
8	6.36

Comments:

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-30-00/30oct00a.b/pr026347.d Page 1
Report Date 10/31/2000 08:52



Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-30-00/30oct00a.b/Pr8082.m
Sample Info : 1221-1000a
Lab ID : 1221-1000a
Inj Date : 30-OCT-2000 17:51
Operator : SK 11/1/00
Cpnd Sublist: AR12210

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1221							
(2)	(M)	2.860	2.860	0.000	12981	1000.000	1000.000
(3)		4.203	4.203	0.000	6074	1000.000	1000.000
(4)		4.373	4.373	0.000	15343	1000.000	1000.000
(5)		4.770	4.770	0.000	10691	1000.000	1000.000
(6)		4.947	4.947	0.000	34057	1000.000	1000.000
(7)		5.117	5.117	0.000	5759	1000.000	1000.000
(8)		5.903	5.903	0.000	1820	1000.000	1000.000
		6.160	6.160	0.000	6357	1000.000	1000.000

Average of peak concentrations: 1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-5 Confirmatory Column

Midpoint Calibration File:

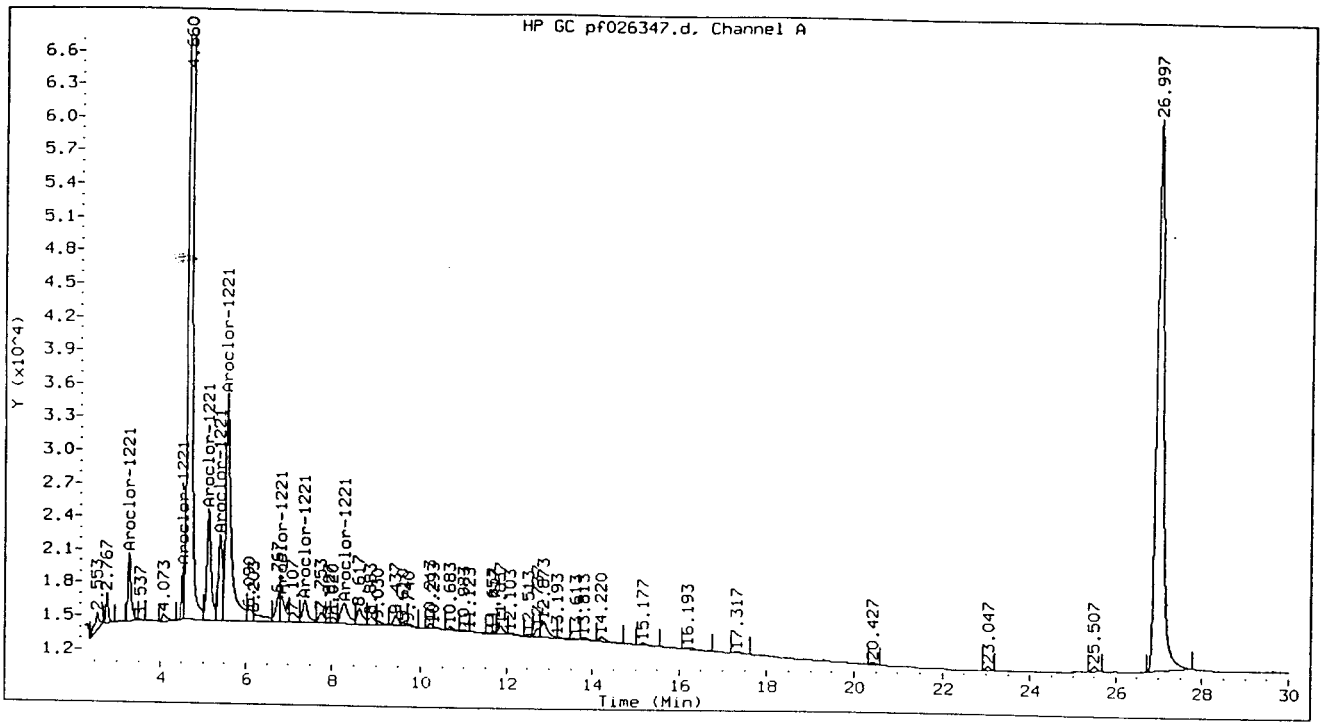
/chem1/PESTGC5_i/8082/front/Oct00/10-30-00/30oct00a.b/pf026347.d

Compound		Midpoint Standard Response Factor
Aroclor-1221		31.58
	2	19.91
	3	70.22
	4	51.79
	5	181.53
	6	17.48
	7	17.40
	8	21.86

Comments:

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-30-00/30oct00a.b/pf026347.d Page 1
Report Date 10/31/2000 08:48



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-30-00/30oct00a.b/Pf8082.m
Sample Info : 1221-1000a
Lab ID : 1221-1000a
Inj Date : 30-OCT-2000 17:51
Operator : SK 11/1/00
Cpnd Sublist: AR12210

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1221	(M)	3.270	3.270	0.000	31578	1000.000	1000.000
(2)		4.537	4.537	0.000	19905	1000.000	1000.000
(3)		5.123	5.123	0.000	70215	1000.000	1000.000
(4)		5.397	5.397	0.000	51787	1000.000	1000.000
(5)		5.563	5.563	0.000	181530	1000.000	1000.000
(6)		6.840	6.840	0.000	17477	1000.000	1000.000
(7)		7.380	7.380	0.000	17398	1000.000	1000.000
(8)		8.270	8.270	0.000	21864	1000.000	1000.000

Average of peak concentrations: 1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-608 Primary Column

Midpoint Calibration File:

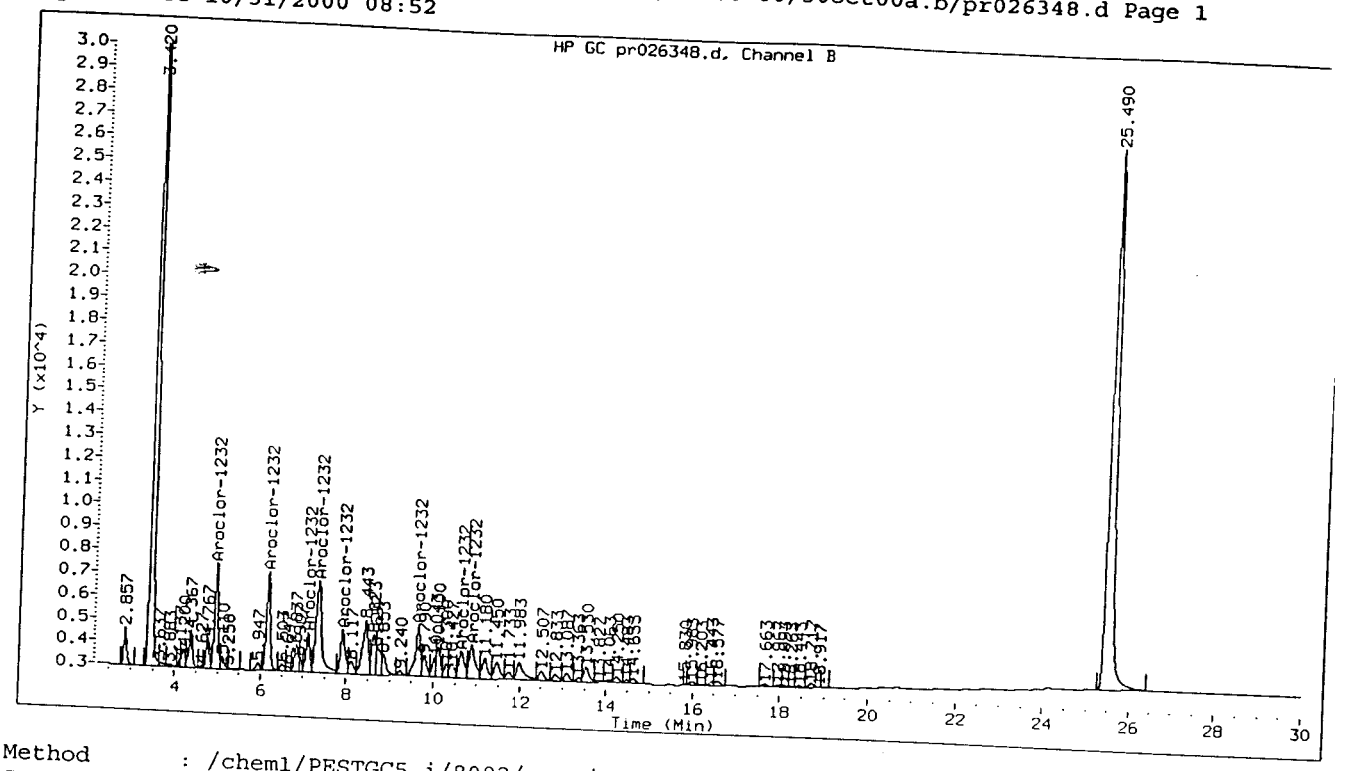
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Compound		Midpoint Standard Response Factor
Aroclor-1232		24.73
	2	27.44
	3	10.74
	4	37.69
	5	14.37
	6	17.59
	7	10.12
	8	14.52

Comments:

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-30-00/30oct00a.b/pr026348.d Page 1
Report Date 10/31/2000 08:52



Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-30-00/30oct00a.b/Pr8082.m
Sample Info : 1232-1000a
Lab ID : 1232-1000a
Inj Date : 30-OCT-2000 18:23
Operator : SK 11/11/00
Cpnd Sublist: AR12320

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1232	(M)	4.943	4.943	0.000	24729	1000.000	1000.000
(2)		6.160	6.160	0.000	27439	1000.000	1000.000
(3)		7.107	7.107	0.000	10736	1000.000	1000.000
(4)		7.340	7.340	0.000	37693	1000.000	1000.000
(5)		7.900	7.900	0.000	14372	1000.000	1000.000
(6)		9.637	9.637	0.000	17595	1000.000	1000.000
(7)		10.640	10.640	0.000	10118	1000.000	1000.000
(8)		10.870	10.870	0.000	14521	1000.000	1000.000

Average of peak concentrations: 1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-5 Confirmatory Column

Midpoint Calibration File:

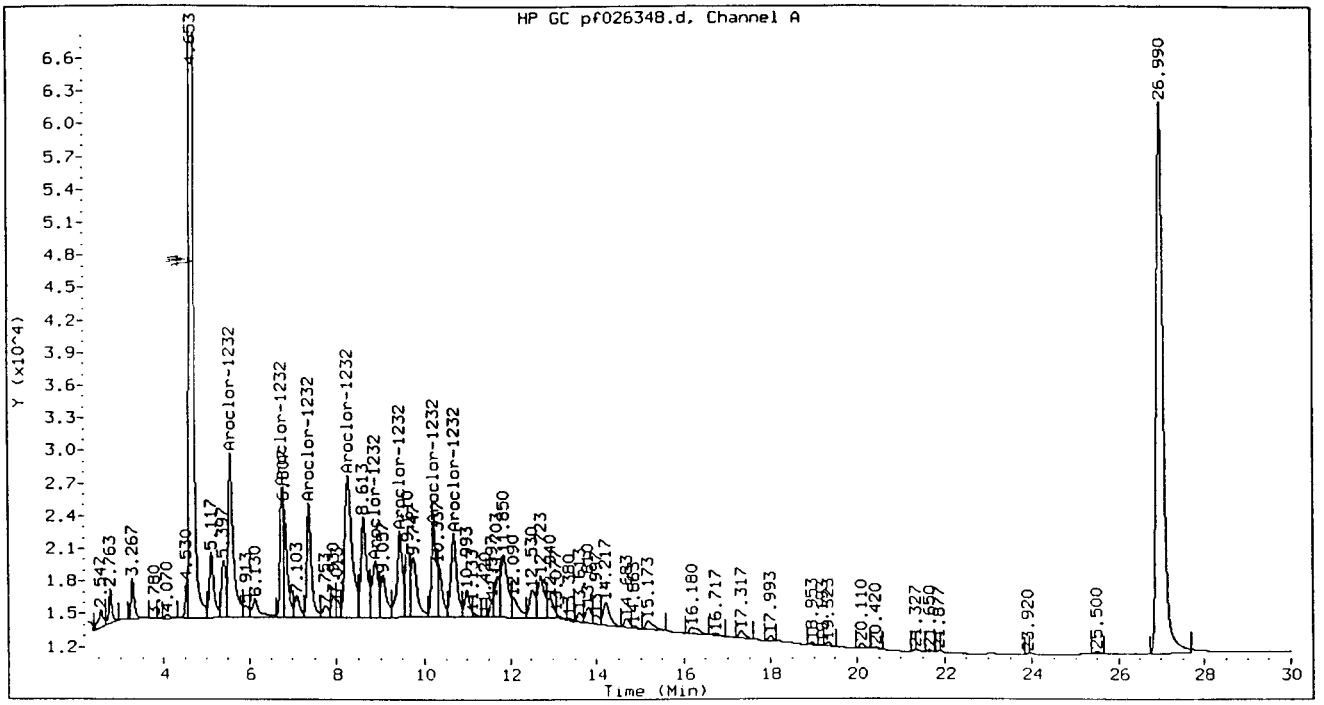
/chem1/PESTGC5.i/8082/front/Oct00/10-30-00/30oct00a.b/pf026348.d

Compound		Midpoint Standard Response Factor
Aroclor-1232		122.01
	2	64.23
	3	74.85
	4	151.33
	5	49.17
	6	66.27
	7	67.89
	8	75.86

Comments:

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-30-00/30oct00a.b/pf026348.d Page 1
Report Date 10/31/2000 08:48



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-30-00/30oct00a.b/Pf8082.m
Sample Info : 1232-1000a
Lab ID : 1232-1000a
Inj Date : 30-OCT-2000 18:23
Operator : SK 11/1/00
Cpnd Sublist: AR12320
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1232	(M)	5.560	5.560	0.000	122010	1000.000	1000.000
(2)		6.767	6.767	0.000	64228	1000.000	1000.000
(3)		7.380	7.380	0.000	74851	1000.000	1000.000
(4)		8.263	8.263	0.000	151332	1000.000	1000.000
(5)		8.877	8.877	0.000	49166	1000.000	1000.000
(6)		9.437	9.437	0.000	66274	1000.000	1000.000
(7)		10.213	10.213	0.000	67887	1000.000	1000.000
(8)		10.683	10.683	0.000	75857	1000.000	1000.000

Average of peak concentrations: 1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-608 Primary Column

Midpoint Calibration File:

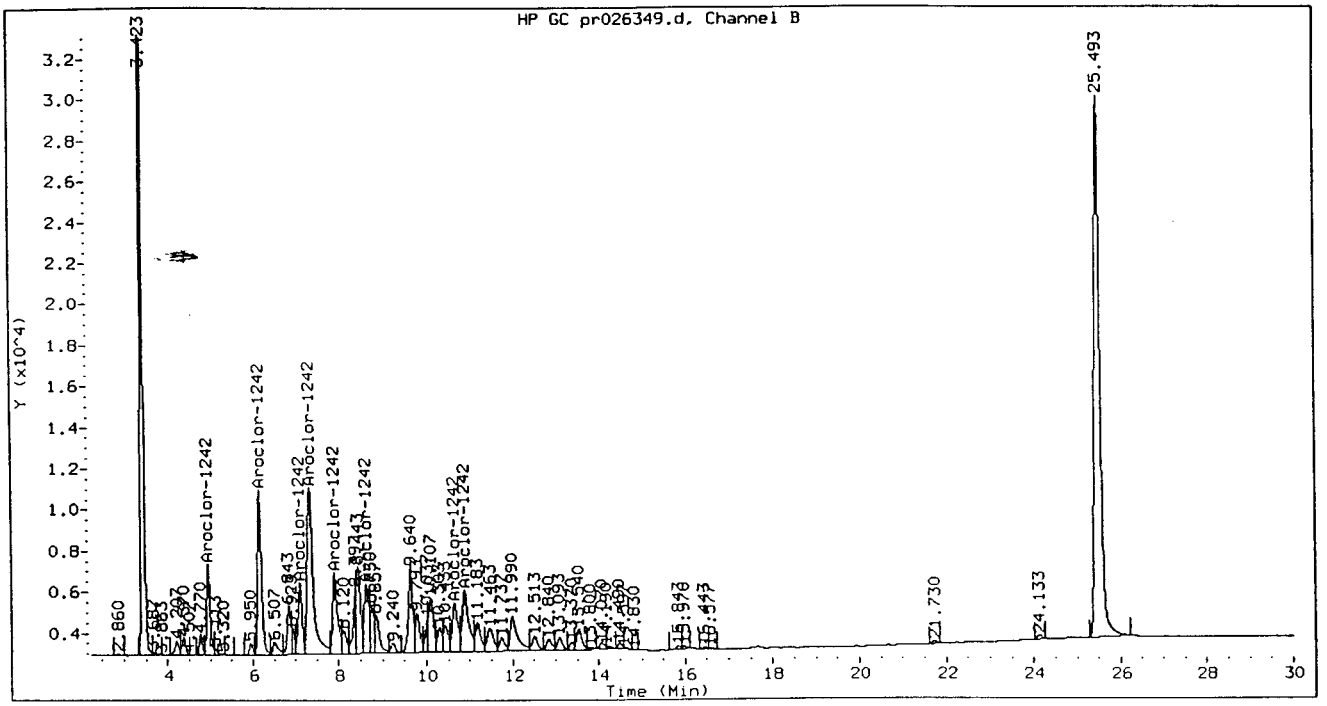
/chem1/PESTGC5_i/8082/rear/Oct00/10-30-00/30oct00a.b/pr026349.d

Compound		Midpoint Standard Response Factor
Aroclor-1242		23.52
	2	51.70
	3	22.07
	4	79.78
	5	30.61
	6	23.23
	7	21.09
	8	31.23

Comments:

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-30-00/30oct00a.b/pr026349.d Page 1
Report Date 10/31/2000 08:52



Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-30-00/30oct00a.b/Pr8082.m
Sample Info : 1242-1000a
Lab ID : 1242-1000a
Inj Date : 30-OCT-2000 18:54
Operator : SK 11/1/00
Cpnd Sublist: AR12420

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1242	(M)	4.947	4.947	0.000	23524	1000.000	1000.000
(2)		6.163	6.163	0.000	51703	1000.000	1000.000
(3)		7.110	7.110	0.000	22074	1000.000	1000.000
(4)		7.347	7.347	0.000	79785	1000.000	1000.000
(5)		7.907	7.907	0.000	30615	1000.000	1000.000
(6)		8.627	8.627	0.000	23232	1000.000	1000.000
(7)		10.647	10.647	0.000	21089	1000.000	1000.000
(8)		10.880	10.880	0.000	31228	1000.000	1000.000

Average of peak concentrations: 1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-5 Confirmatory Column

Midpoint Calibration File:

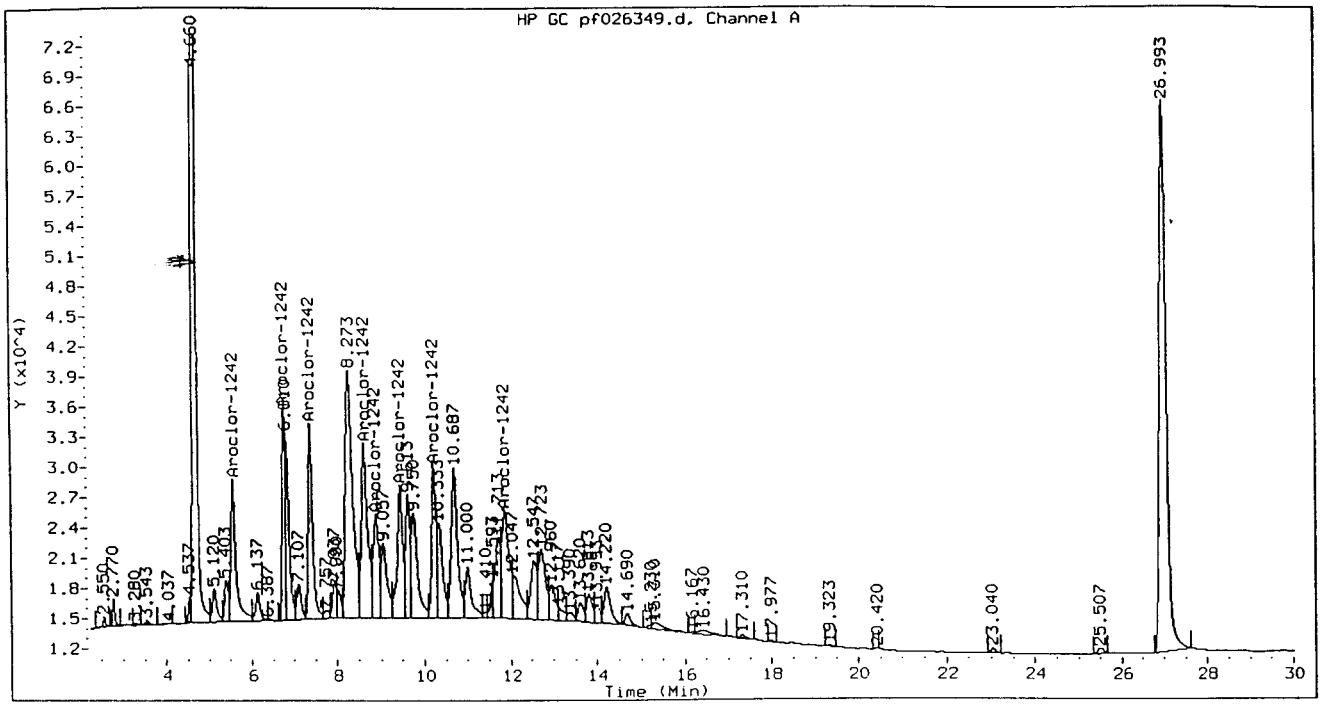
/chem1/PESTGC5_i/8082/front/Oct00/10-30-00/30oct00a.b/pf026349.d

Compound		Midpoint Standard Response Factor
Aroclor-1242		115.09
	2	109.57
	3	136.87
	4	165.78
	5	95.40
	6	113.63
	7	111.35
	8	128.99

Comments:

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-30-00/30oct00a.b/pf026349.d Page 1
Report Date 10/31/2000 08:48



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-30-00/30oct00a.b/Pf8082.m
Sample Info : 1242-1000a
Lab ID : 1242-1000a
Inj Date : 30-OCT-2000 18:54
Operator : SK 11/1/00
Cpnd Sublist: AR12420

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1242	(M)	5.563	5.563	0.000	115090	1000.000	1000.000
(2)		6.770	6.770	0.000	109567	1000.000	1000.000
(3)		7.380	7.380	0.000	136873	1000.000	1000.000
(4)		8.620	8.620	0.000	165780	1000.000	1000.000
(5)		8.883	8.883	0.000	95396	1000.000	1000.000
(6)		9.440	9.440	0.000	113631	1000.000	1000.000
(7)		10.217	10.217	0.000	111352	1000.000	1000.000
(8)		11.857	11.857	0.000	128987	1000.000	1000.000

Average of peak concentrations: 1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-608 Primary Column

Midpoint Calibration File:

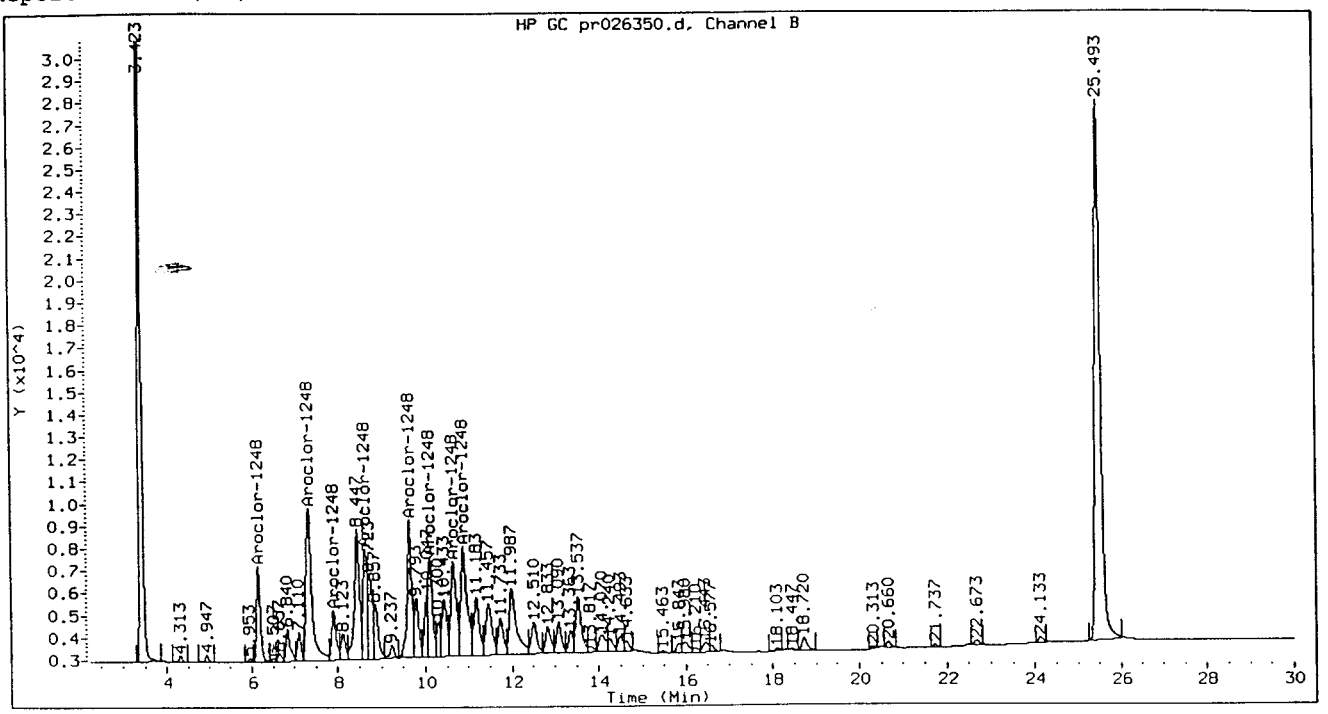
/chem1/PESTGC5.i/8082/rear/Oct00/10-30-00/30oct00a.b/pr026350.d

Compound		Midpoint Standard Response Factor
Aroclor-1248		26.85
	2	64.40
	3	15.59
	4	33.21
	5	45.25
	6	31.20
	7	38.00
	8	51.07

Comments:

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-30-00/30oct00a.b/pr026350.d Page 1
Report Date 10/31/2000 08:52



Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-30-00/30oct00a.b/Pr8082.m
Sample Info : 1248-1000a
Lab ID : 1248-1000a
Inj Date : 30-OCT-2000 19:26
Operator : SK 11/1/00
Cpnd Sublist: AR12480

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1248	(M)	6.160	6.160	0.000	26853	1000.000	1000.000
(2)		7.343	7.343	0.000	64401	1000.000	1000.000
(3)		7.903	7.903	0.000	15594	1000.000	1000.000
(4)		8.627	8.627	0.000	33212	1000.000	1000.000
(5)		9.640	9.640	0.000	45248	1000.000	1000.000
(6)		10.107	10.107	0.000	31198	1000.000	1000.000
(7)		10.643	10.643	0.000	37998	1000.000	1000.000
(8)		10.880	10.880	0.000	51069	1000.000	1000.000
Average of peak concentrations:							1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-5 Confirmatory Column

Midpoint Calibration File:

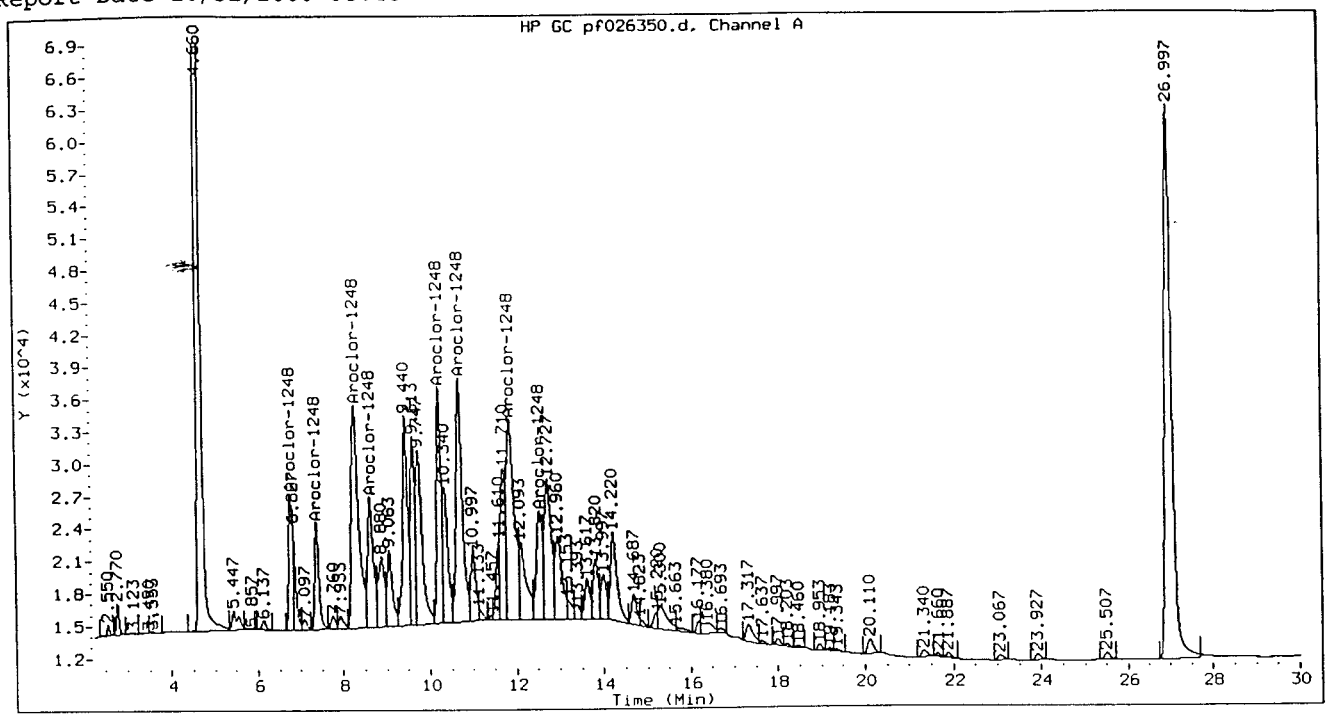
/chem1/PESTGC5.i/8082/front/Oct00/10-30-00/30oct00a.b/pf026350.d

Compound		Midpoint Standard Response Factor
Aroclor-1248		74.27
	2	67.92
	3	241.58
	4	108.15
	5	164.03
	6	227.84
	7	224.36
	8	96.73

Comments:

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-30-00/30oct00a.b/pf026350.d Page 1
Report Date 10/31/2000 08:48



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-30-00/30oct00a.b/Pf8082.m
Sample Info : 1248-1000a
Lab ID : 1248-1000a
Inj Date : 30-OCT-2000 19:26
Operator : SK 11/1/00
Cpnd Sublist: AR12480

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1248	(M)	6.773	6.773	0.000	74271	1000.000	1000.000
(2)		7.380	7.380	0.000	67918	1000.000	1000.000
(3)		8.273	8.273	0.000	241581	1000.000	1000.000
(4)		8.620	8.620	0.000	108153	1000.000	1000.000
(5)		10.217	10.217	0.000	164030	1000.000	1000.000
(6)		10.690	10.690	0.000	227838	1000.000	1000.000
(7)		11.860	11.860	0.000	224360	1000.000	1000.000
(8)		12.540	12.540	0.000	96733	1000.000	1000.000

Average of peak concentrations: 1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-608 Primary Column

Midpoint Calibration File:

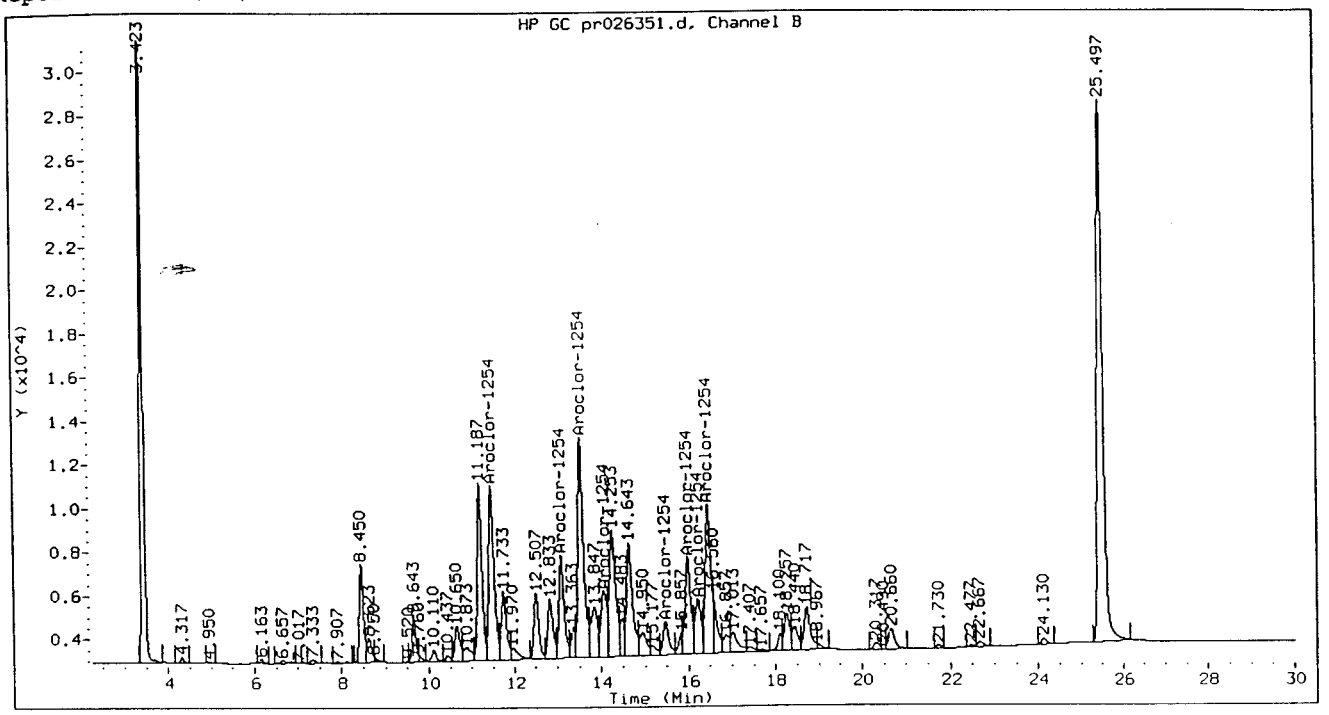
/chem1/PESTGC5.i/8082/rear/Oct00/10-30-00/30oct00a.b/pr026351.d

Compound		Midpoint Standard Response Factor
Aroclor-1254		70.86
	2	38.45
	3	90.15
	4	27.96
	5	14.33
	6	40.51
	7	23.43
	8	62.49

Comments:

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-30-00/30oct00a.b/pr026351.d Page 1
Report Date 10/31/2000 08:52



Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-30-00/30oct00a.b/Pr8082.m
Sample Info : 1254-1000a
Lab ID : 1254-1000a
Inj Date : 30-OCT-2000 19:57
Operator : SK 11/1/00
Cpnd Sublist: AR12540

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1254	(M)	11.447	11.447	0.000	70863	1000.000	1000.000
(2)		13.090	13.090	0.000	38447	1000.000	1000.000
(3)		13.537	13.537	0.000	90154	1000.000	1000.000
(4)		14.063	14.063	0.000	27964	1000.000	1000.000
(5)		15.467	15.467	0.000	14330	1000.000	1000.000
(6)		15.983	15.983	0.000	40507	1000.000	1000.000
(7)		16.217	16.217	0.000	23425	1000.000	1000.000
(8)		16.447	16.447	0.000	62490	1000.000	1000.000

Average of peak concentrations: 1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-5 Confirmatory Column

Midpoint Calibration File:

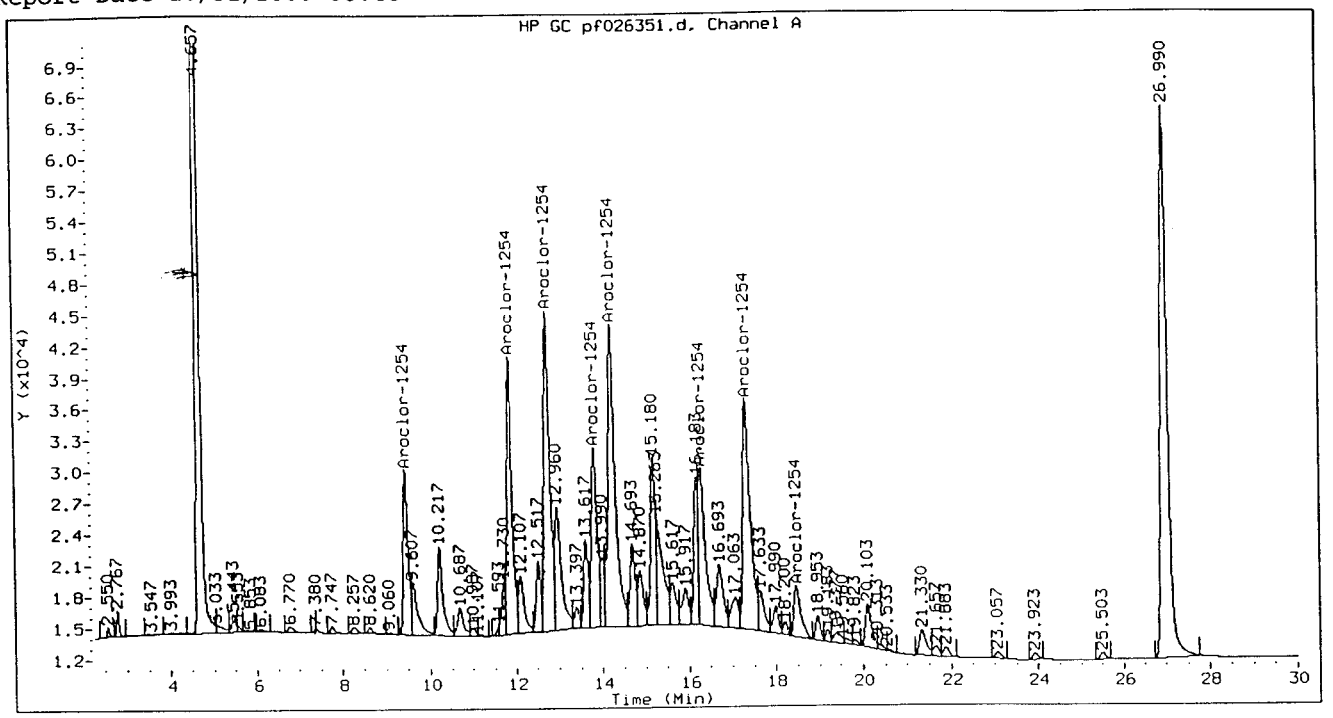
/chem1/PESTGC5.i/8082/front/Oct00/10-30-00/30oct00a.b/pf026351.d

Compound		Midpoint Standard Response Factor
Aroclor-1254		118.11
	2	237.55
	3	291.78
	4	158.33
	5	338.66
	6	166.66
	7	263.53
	8	53.80

Comments:

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-30-00/30oct00a.b/pf026351.d Page 1
Report Date 10/31/2000 08:48



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-30-00/30oct00a.b/Pf8082.m
Sample Info : 1254-1000a
Lab ID : 1254-1000a
Inj Date : 30-OCT-2000 19:57
Operator : SK 11/1/00
Cpnd Sublist: AR12540

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1254	(M)	9.440	9.440	0.000	118112	1000.000	1000.000
(2)		11.857	11.857	0.000	237548	1000.000	1000.000
(3)		12.737	12.737	0.000	291784	1000.000	1000.000
(4)		13.817	13.817	0.000	158331	1000.000	1000.000
(5)		14.220	14.220	0.000	338660	1000.000	1000.000
(6)		16.273	16.273	0.000	166660	1000.000	1000.000
(7)		17.320	17.320	0.000	263533	1000.000	1000.000
(8)		18.460	18.460	0.000	53802	1000.000	1000.000

Average of peak concentrations: 1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-608 Primary Column

Midpoint Calibration File:

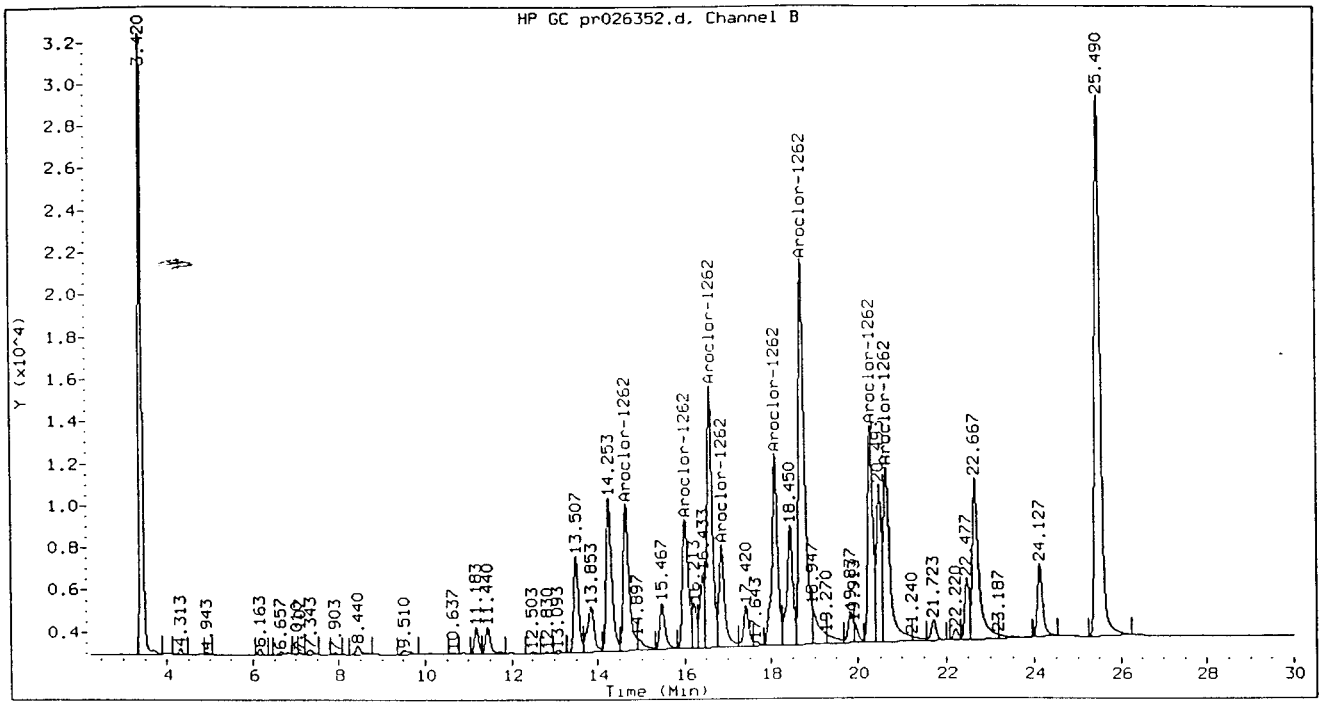
/chem1/PESTGC5.i/8082/rear/Oct00/10-30-00/30oct00a.b/pr026352.d

Compound		Midpoint Standard Response Factor
Aroclor-1262		64.35
	2	58.06
	3	107.00
	4	44.53
	5	84.36
	6	173.22
	7	83.52
	8	86.65

Comments:

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-30-00/30oct00a.b/pr026352.d Page 1
Report Date 10/31/2000 08:52



Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-30-00/30oct00a.b/Pr8082.m
Sample Info : 1262-1000a
Lab ID : 1262-1000a
Inj Date : 30-OCT-2000 20:28
Operator : SK 11/1/00
Cpnd Sublist: AR12620

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1262	(M)	14.643	14.643	0.000	64347	1000.000	1000.000
(2)		16.007	16.007	0.000	58059	1000.000	1000.000
(3)		16.587	16.587	0.000	107005	1000.000	1000.000
(4)		16.853	16.853	0.000	44532	1000.000	1000.000
(5)		18.100	18.100	0.000	84356	1000.000	1000.000
(6)		18.717	18.717	0.000	173221	1000.000	1000.000
(7)		20.300	20.300	0.000	83524	1000.000	1000.000
(8)		20.650	20.650	0.000	86654	1000.000	1000.000

Average of peak concentrations: 1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-5 Confirmatory Column

Midpoint Calibration File:

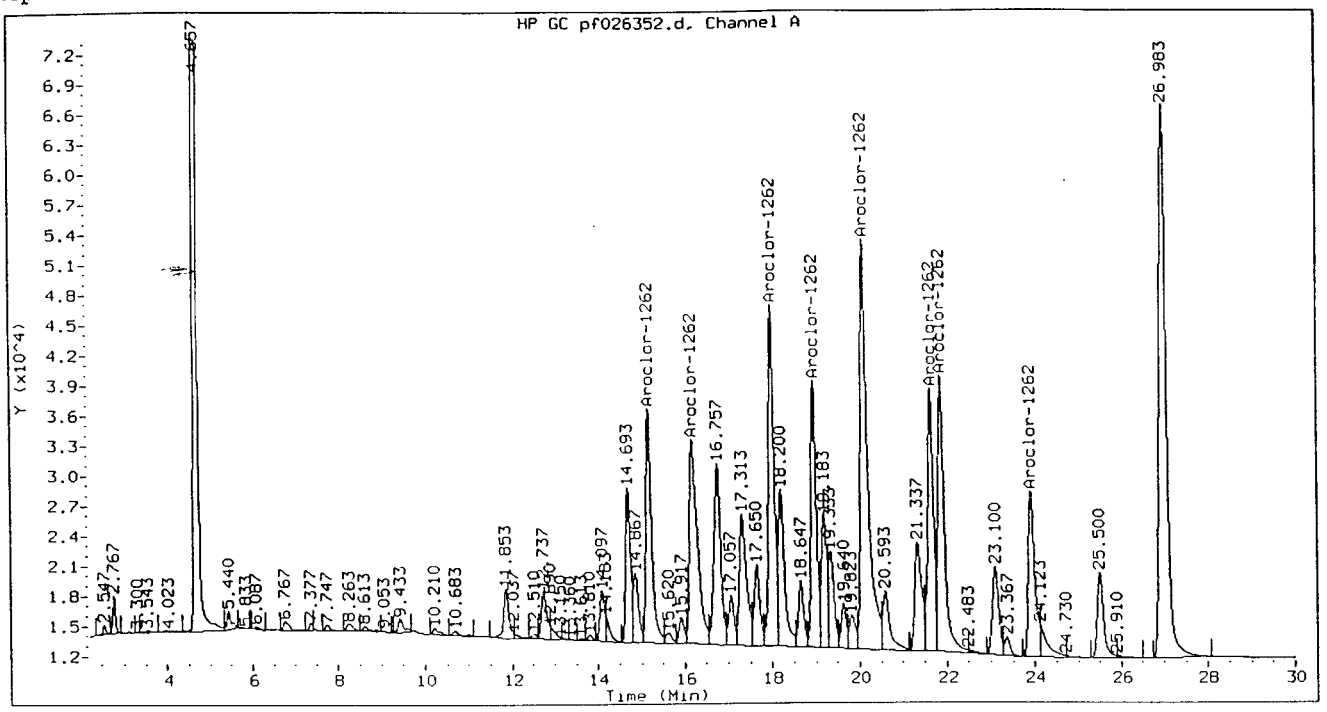
/chem1/PESTGC5.i/8082/front/Oct00/10-30-00/30oct00a.b/pf026352.d

Compound	Midpoint Standard Response Factor
Aroclor-1262	215.92
2	261.82
3	301.18
4	224.87
5	488.71
6	242.62
7	281.58
8	170.65

Comments:

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-30-00/30oct00a.b/pf026352.d Page 1
Report Date 10/31/2000 08:48



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-30-00/30oct00a.b/Pf8082.m
Sample Info : 1262-1000a
Lab ID : 1262-1000a
Inj Date : 30-OCT-2000 20:28
Operator : SK 11/1/00
Cpnd Sublist: AR12620

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1262	(M)	15.173	15.173	0.000	215921	1000.000	1000.000
(2)		16.173	16.173	0.000	261821	1000.000	1000.000
(3)		17.990	17.990	0.000	301179	1000.000	1000.000
(4)		18.957	18.957	0.000	224872	1000.000	1000.000
(5)		20.110	20.110	0.000	488708	1000.000	1000.000
(6)		21.657	21.657	0.000	242625	1000.000	1000.000
(7)		21.883	21.883	0.000	281577	1000.000	1000.000
(8)		23.923	23.923	0.000	170654	1000.000	1000.000

Average of peak concentrations: 1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-608 Primary Column

Midpoint Calibration File:

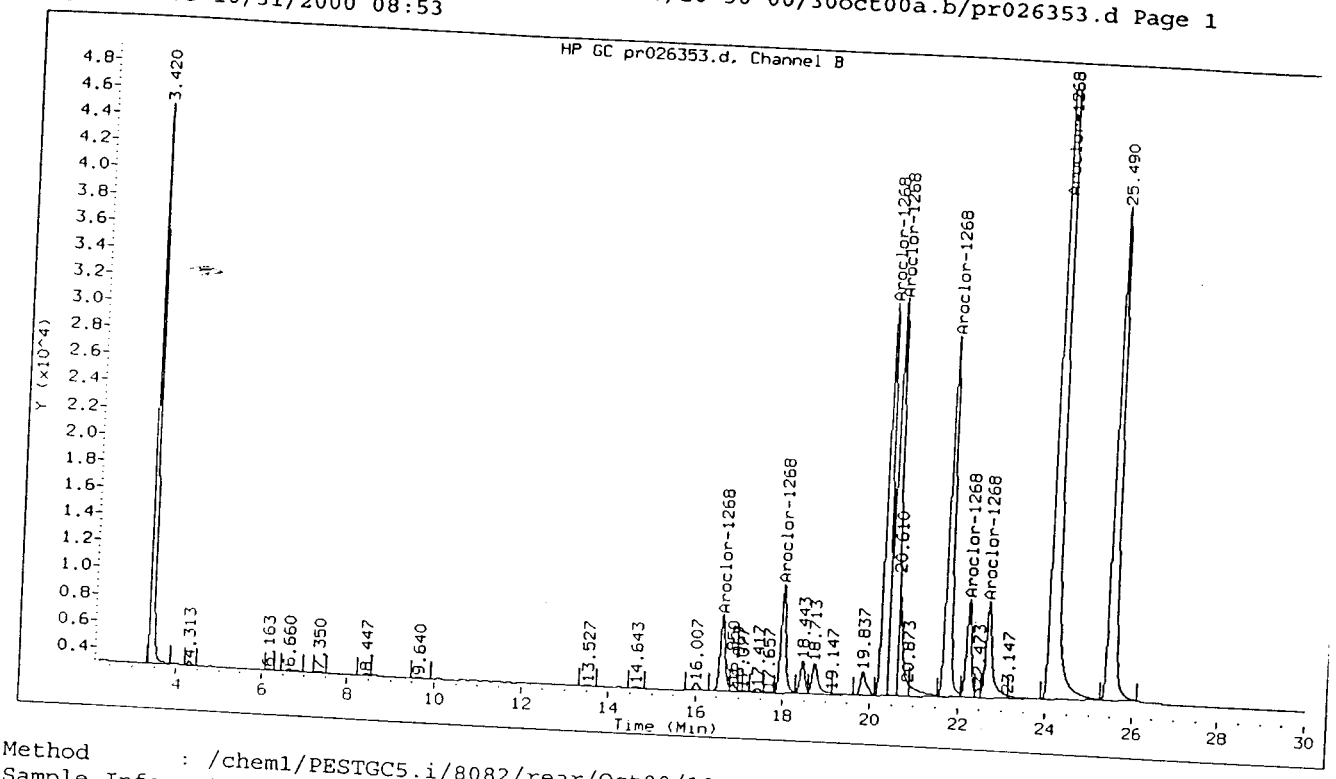
/chem1/PESTGC5_i/8082/rear/Oct00/10-30-00/30oct00a.b/pr026353.d

Compound	Midpoint Standard Response Factor
Aroclor-1268	46.62
2	66.67
3	227.18
4	242.84
5	214.97
6	56.84
7	72.60
8	645.03

Comments:

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-30-00/30oct00a.b/pr026353.d Page 1
Report Date 10/31/2000 08:53



Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-30-00/30oct00a.b/Pr8082.m
Sample Info : 1268-1000a
Lab ID : 1268-1000a
Inj Date : 30-OCT-2000 21:00
Operator : SK 12 11/1/00
Cpnd Sublist: AR12680

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1268							
(2)	(M)	16.587	16.587	0.000	46616	1000.000	1000.000
(3)		17.970	17.970	0.000	66675	1000.000	1000.000
(4)		20.300	20.300	0.000	227177	1000.000	1000.000
(5)		20.503	20.503	0.000	242843	1000.000	1000.000
(6)		21.730	21.730	0.000	214967	1000.000	1000.000
(7)		22.223	22.223	0.000	56840	1000.000	1000.000
(8)		22.667	22.667	0.000	72603	1000.000	1000.000
		24.133	24.133	0.000	645035	1000.000	1000.000

Average of peak concentrations: 1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-5 Confirmatory Column

Midpoint Calibration File:

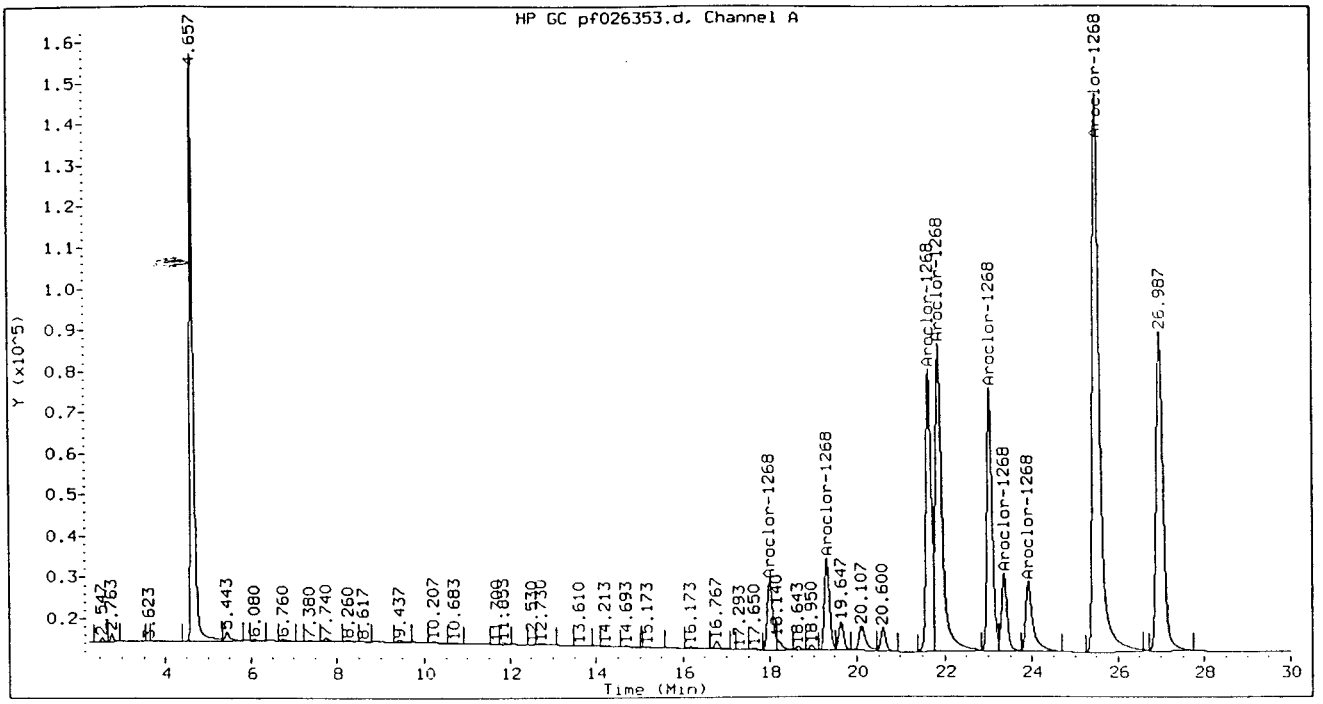
/chem1/PESTGC5.i/8082/front/Oct00/10-30-00/30oct00a.b/pf026353.d

Compound	Midpoint Standard Response Factor
Aroclor-1268	144.08
2	179.75
3	584.51
4	793.75
5	532.70
6	161.64
7	192.00
8	1568.06

Comments:

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-30-00/30oct00a.b/pf026353.d Page 1
Report Date 10/31/2000 08:48



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-30-00/30oct00a.b/Pf8082.m
Sample Info : 1268-1000a
Lab ID : 1268-1000a
Inj Date : 30-OCT-2000 21:00
Operator : SK 11/1/00
Cpnd Sublist: AR12680

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1268	(M)	17.993	17.993	0.000	144084	1000.000	1000.000
(2)		19.320	19.320	0.000	179746	1000.000	1000.000
(3)		21.660	21.660	0.000	584509	1000.000	1000.000
(4)		21.883	21.883	0.000	793746	1000.000	1000.000
(5)		23.047	23.047	0.000	532701	1000.000	1000.000
(6)		23.373	23.373	0.000	161640	1000.000	1000.000
(7)		23.923	23.923	0.000	192005	1000.000	1000.000
(8)		25.510	25.510	0.000	1568057	1000.000	1000.000

Average of peak concentrations: 1000.00

COMMENTS:

M - Compound response manually integrated.

MULTICOMPONENT COMPOUND CONTINUING CALIBRATION REPORT

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-31-00/31oct00a.b/pr026379.d
Method: /chem1/PESTGC5.i/8082/rear/Oct00/10-31-00/31oct00a.b/Pr8082.m

Sample Information: 1016/1260-1000a
Injection Date: 31-OCT-2000 18:18

Compound	Signal No.	RT	Exp Conc	Actual Conc	Percent Diff.
Aroclor-1016	1	4.953	1000	1070.87	7.09
Aroclor-1016	2	6.167	1000	999.83	0.02
Aroclor-1016	3	7.113	1000	1030.35	3.03
Aroclor-1016	4	7.353	1000	1056.70	5.67
Aroclor-1016	5	7.910	1000	1044.99	4.50
Aroclor-1016	6	8.633	1000	986.49	1.35
Aroclor-1016	7	9.647	1000	1003.02	0.30
Aroclor-1016	8	10.113	1000	958.96	4.10
Aroclor-1260	1	14.267	1000	1028.58	2.86
Aroclor-1260	2	16.460	1000	1009.16	0.92
Aroclor-1260	3	16.600	1000	1028.74	2.87
Aroclor-1260	4	16.870	1000	1110.71	11.07
Aroclor-1260	5	18.117	1000	984.03	1.60
Aroclor-1260	6	18.733	1000	1051.42	5.14
Aroclor-1260	7	20.673	1000	1091.89	9.19
Aroclor-1260	8	22.690	1000	1060.86	6.09

Surrogate	RT	Exp Conc	Actual Conc	Percent Diff.
Tetrachloro-m-xylene	3.427	100	106.97	6.97
Decachlorobiphenyl	25.507	100	108.00	8.00

GC ORGANICS RETENTION TIME CHECK

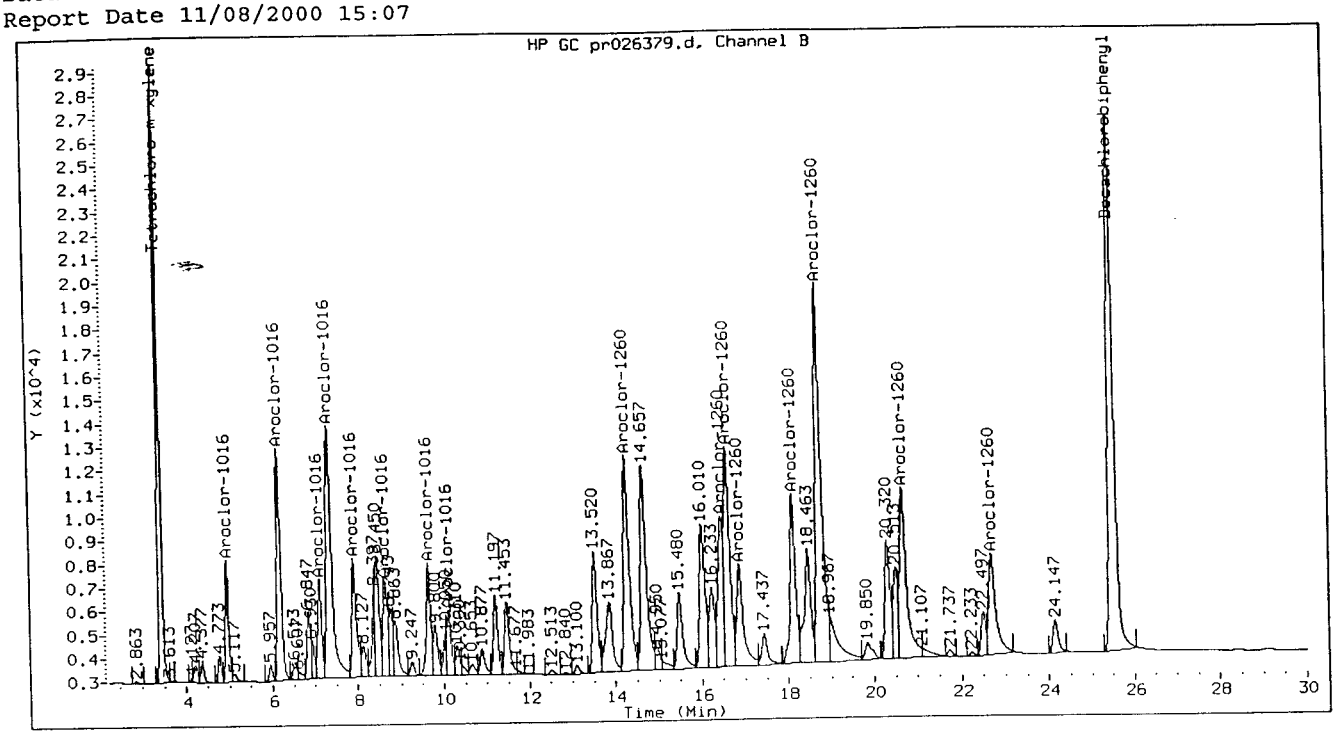
Instrument ID: PESTGC5.i

Midpoint Calibration File: /chem1/PESTGC5.i/8082/rear/Oct00/10-30-00/30oct00a.b/pr026342.d
Injection Date: 30-OCT-2000 15:14

Continuing Calibration File: /chem1/PESTGC5.i/8082/rear/Oct00/10-31-00/31oct00a.b/pr026379.d
Injection Date: 31-OCT-2000 18:18

Compound	Init Cal RT	RT Range	Cont Cal RT	Flags
Aroclor-1016	4.957	(4.887 - 5.027)	4.953	
	6.173	(6.103 - 6.243)	6.167	
	7.120	(7.050 - 7.190)	7.113	
	7.357	(7.287 - 7.427)	7.353	
	7.917	(7.847 - 7.987)	7.910	
	8.640	(8.570 - 8.710)	8.633	
	9.653	(9.583 - 9.723)	9.647	
	10.120	(10.050 - 10.190)	10.113	
Aroclor-1260	14.267	(14.197 - 14.337)	14.267	
	16.457	(16.387 - 16.527)	16.460	
	16.597	(16.527 - 16.667)	16.600	
	16.870	(16.800 - 16.940)	16.870	
	18.113	(18.043 - 18.183)	18.117	
	18.730	(18.660 - 18.800)	18.733	
	20.667	(20.597 - 20.737)	20.673	
	22.677	(22.607 - 22.747)	22.690	
Tetrachloro-m-xylene	3.430	(3.380 - 3.480)	3.427	
Decachlorobiphenyl	25.503	(25.403 - 25.603)	25.507	

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-31-00/31oct00a.b/pr026379.d Page 1
Report Date 11/08/2000 15:07



Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-31-00/31oct00a.b/Pr8082.m
Sample Info : 1016/1260-1000a
Lab ID : 1016/1260-1000a
Inj Date : 31-OCT-2000 18:18
Operator : SK MAM 11/8/00
Cpnd Sublist: AR16600S

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CCALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1016	(M)	4.953	4.953	0.000	27318	1070.872	1070.872
(2)		6.167	6.167	0.000	63079	999.825	999.825
(3)		7.113	7.113	0.000	26606	1030.348	1030.348
(4)		7.353	7.353	0.000	98866	1056.700	1056.700
(5)		7.910	7.910	0.000	37068	1044.991	1044.991
(6)		8.633	8.633	0.000	27730	986.491	986.491
(7)		9.647	9.647	0.000	34522	1003.016	1003.016
(8)		10.113	10.113	0.000	19313	958.958	958.958
Average of peak concentrations:							1000.00
Aroclor-1260	(M)	14.267	14.267	0.000	83131	1028.581	1028.581
(2)		16.460	16.460	0.000	54110	1009.164	1009.164
(3)		16.600	16.600	0.000	84637	1028.739	1028.739
(4)		16.870	16.870	0.000	45025	1110.706	1110.706
(5)		18.117	18.117	0.000	62927	984.029	984.029
(6)		18.733	18.733	0.000	155665	1051.422	1051.422

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
(7)		20.673	20.673	0.000	79305	1091.891	1091.891
(8)		22.690	22.690	0.000	47577	1060.863	1060.863
Average of peak concentrations:							1000.00
Tetrachloro-m-xylene	(M)	3.427	3.427	0.000	116904	106.971	106.971
Decachlorobiphenyl		25.507	25.507	0.000	214075	108.004	108.004

COMMENTS:

M - Compound response manually integrated.

MULTICOMPONENT COMPOUND CONTINUING CALIBRATION REPORT

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-31-00/31oct00a.b/pf026379.d
Method: /chem1/PESTGC5.i/8082/front/Oct00/10-31-00/31oct00a.b/Pf8082.m

Sample Information: 1016/1260-1000a
Injection Date: 31-OCT-2000 18:18

Compound	Signal No.	RT	Exp Conc	Actual Conc	Percent Diff.
Aroclor-1016	1	5.567	1000	1089.86	8.99
Aroclor-1016	2	6.780	1000	1030.79	3.08
Aroclor-1016	3	7.390	1000	1024.46	2.45
Aroclor-1016	4	8.280	1000	1089.85	8.98
Aroclor-1016	5	9.447	1000	982.15	1.78
Aroclor-1016	6	9.620	1000	1006.44	0.64
Aroclor-1016	7	10.223	1000	1078.38	7.84
Aroclor-1016	8	10.697	1000	1025.26	2.53
Aroclor-1260	1	15.190	1000	1005.65	0.57
Aroclor-1260	2	16.190	1000	994.67	0.53
Aroclor-1260	3	17.337	1000	992.16	0.78
Aroclor-1260	4	18.007	1000	968.21	3.18
Aroclor-1260	5	18.970	1000	992.54	0.75
Aroclor-1260	6	21.357	1000	970.25	2.98
Aroclor-1260	7	21.907	1000	1073.98	7.40
Aroclor-1260	8	23.943	1000	1040.73	4.07

Surrogate	RT	Exp Conc	Actual Conc	Percent Diff.
Tetrachloro-m-xylene	4.663	100	104.59	4.59
Decachlorobiphenyl	27.010	100	103.83	3.83

GC ORGANICS RETENTION TIME CHECK

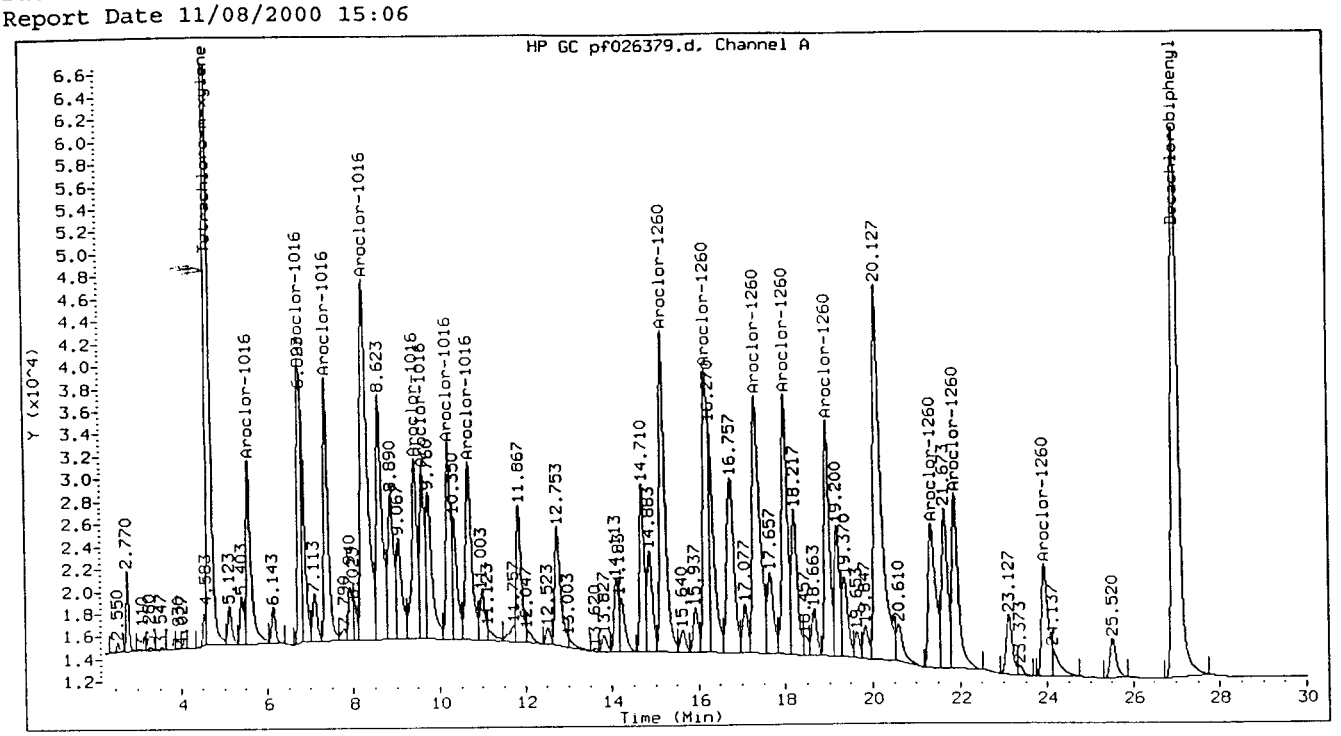
Instrument ID: PESTGC5.i

Midpoint Calibration File: /chem1/PESTGC5.i/8082/front/Oct00/10-30-00/30oct00a.b/pf026342.d
Injection Date: 30-OCT-2000 15:14

Continuing Calibration File: /chem1/PESTGC5.i/8082/front/Oct00/10-31-00/31oct00a.b/pf026379.d
Injection Date: 31-OCT-2000 18:18

Compound	Init Cal RT	RT Range	Cont Cal RT	Flags
Aroclor-1016	5.577	(5.507 - 5.647)	5.567	
	6.787	(6.717 - 6.857)	6.780	
	7.397	(7.327 - 7.467)	7.390	
	8.287	(8.217 - 8.357)	8.280	
	9.457	(9.387 - 9.527)	9.447	
	9.627	(9.557 - 9.697)	9.620	
	10.233	(10.163 - 10.303)	10.223	
	10.700	(10.630 - 10.770)	10.697	
Aroclor-1260	15.193	(15.123 - 15.263)	15.190	
	16.193	(16.123 - 16.263)	16.190	
	17.333	(17.263 - 17.403)	17.337	
	18.007	(17.937 - 18.077)	18.007	
	18.967	(18.897 - 19.037)	18.970	
	21.347	(21.277 - 21.417)	21.357	
	21.900	(21.830 - 21.970)	21.907	
	23.933	(23.863 - 24.003)	23.943	
Tetrachloro-m-xylene	4.670	(4.620 - 4.720)	4.663	
Decachlorobiphenyl	27.007	(26.907 - 27.107)	27.010	

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-31-00/31oct00a.b/pf026379.d Page 1
Report Date 11/08/2000 15:06



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-31-00/31oct00a.b/Pf8082.m
Sample Info : 1016/1260-1000a
Lab ID : 1016/1260-1000a
Inj Date : 31-OCT-2000 18:18
Operator : SK MAM 11/8/00
Cpnd Sublist: AR16600S

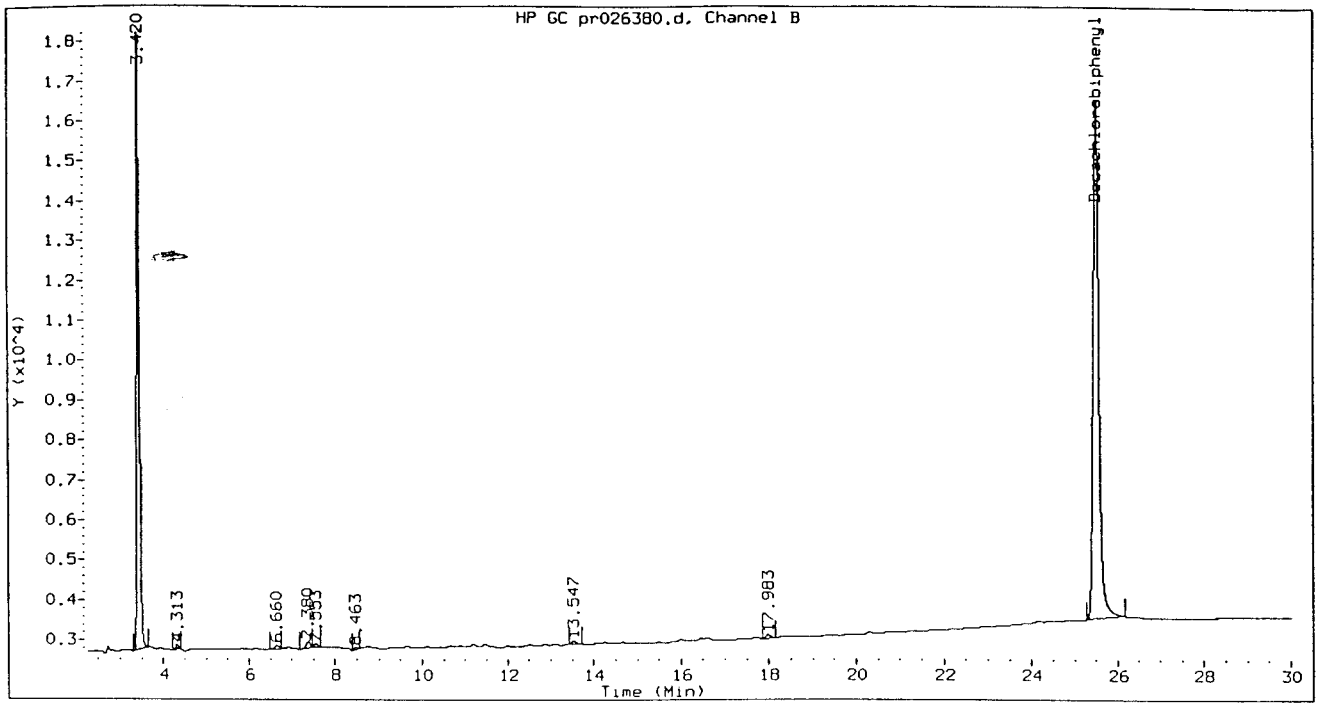
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CCALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1016	(M)	5.567	5.567	0.000	125730	1089.855	1089.855
(2)		6.780	6.780	0.000	141521	1030.788	1030.788
(3)		7.390	7.390	0.000	163647	1024.455	1024.455
(4)		8.280	8.280	0.000	369709	1089.848	1089.848
(5)		9.447	9.447	0.000	137716	982.152	982.152
(6)		9.620	9.620	0.000	109351	1006.443	1006.443
(7)		10.223	10.223	0.000	139454	1078.382	1078.382
(8)		10.697	10.697	0.000	161333	1025.260	1025.260
Average of peak concentrations:							1000.00
Aroclor-1260	(M)	15.190	15.190	0.000	262261	1005.654	1005.654
(2)		16.190	16.190	0.000	215422	994.668	994.668
(3)		17.337	17.337	0.000	273501	992.164	992.164
(4)		18.007	18.007	0.000	209371	968.207	968.207
(5)		18.970	18.970	0.000	174541	992.537	992.537
(6)		21.357	21.357	0.000	152691	970.248	970.248

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/kg)
(7)	21.907	21.907	0.000	163640	1073.978	1073.978
(8)	23.943	23.943	0.000	107667	1040.725	1040.725
Average of peak concentrations:						1000.00
Tetrachloro-m-xylene	4.663	4.663	0.000	531095	104.593	104.593
Decachlorobiphenyl	27.010	27.010	0.000	563587	103.827	103.827

COMMENTS:
M - Compound response manually integrated.

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-31-00/31oct00a.b/pr026380.d Page 1
Report Date 11/01/2000 15:09



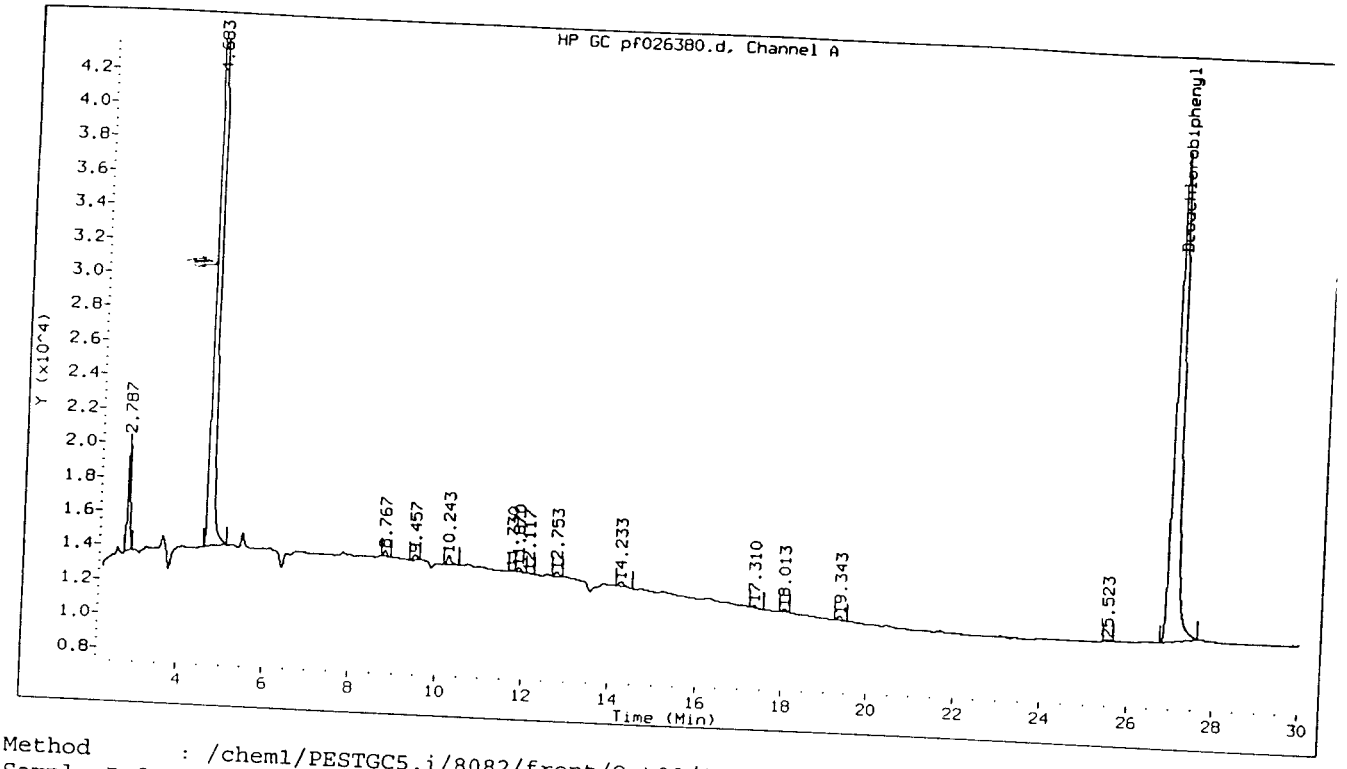
Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-31-00/31oct00a.b/Pr8082.m
Sample Info : SP305A;15;10;
Lab ID : SP305A
Inj Date : 31-OCT-2000 20:58
Operator : SUEZ SZ 11/1/00
Cpnd Sublist: PCB8082+
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: BLANK

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Decachlorobiphenyl	(M)	25.507	25.507	0.000	119672	60.376	40.251

COMMENTS:

M - Compound response manually integrated.

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-31-00/31oct00a.b/pf026380.d Page 1
Report Date 11/01/2000 15:10

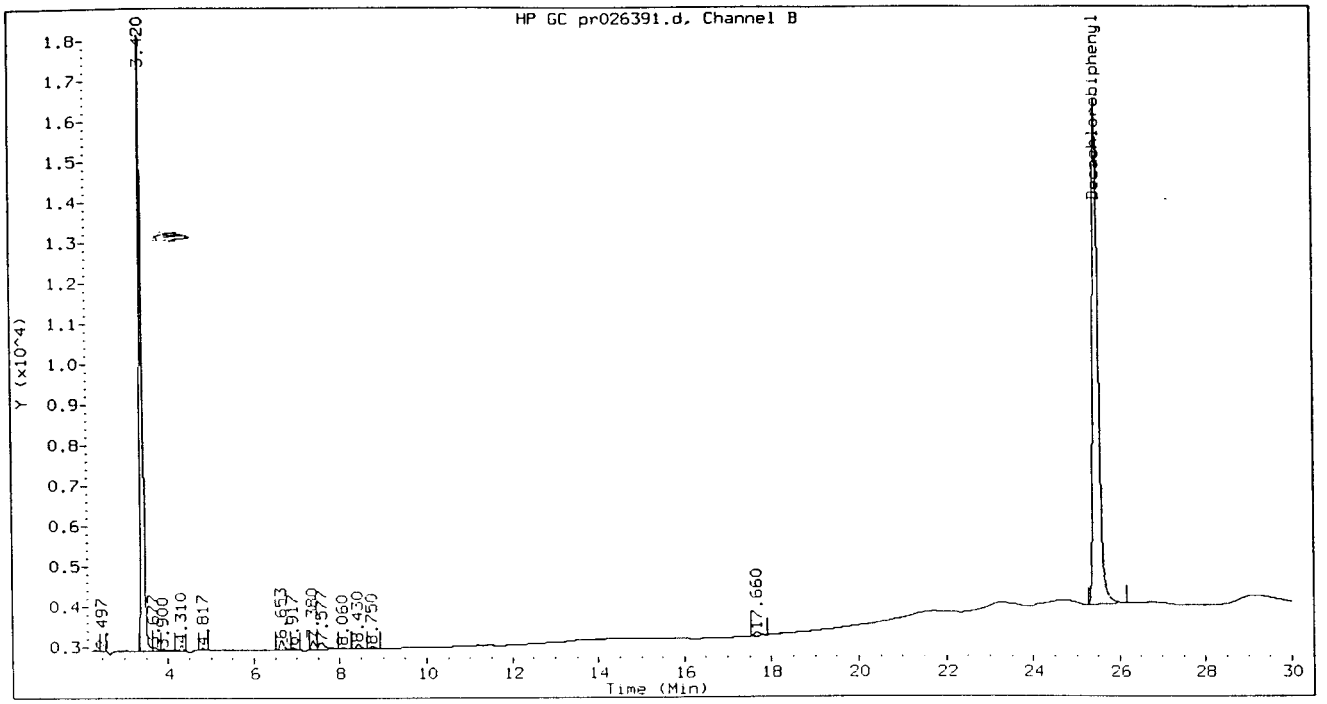


Method : /chem1/PESTGC5.i/8082/front/Oct00/10-31-00/31oct00a.b/Pf8082.m
Sample Info : SP305A;15;10;
Lab ID : SP305A
Inj Date : 31-OCT-2000 20:58
Operator : SUEZ SZ 11/1/00
Cpnd Sublist: PCB8082+

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: BLANK

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Decachlorobiphenyl	27.013	27.010	0.003	322632	59.437	39.625

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-31-00/31oct00a.b/pr026391.d Page 1
Report Date 11/01/2000 15:09

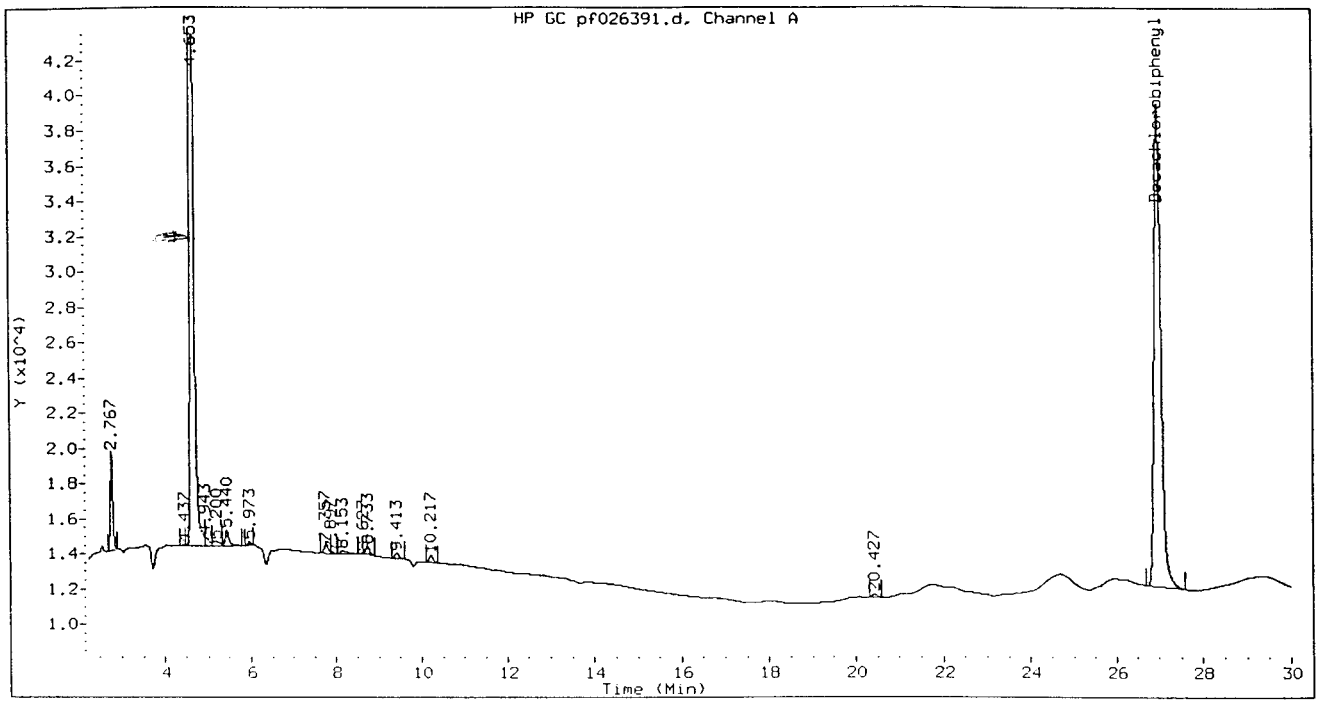


Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-31-00/31oct00a.b/Pr8082.m
Sample Info : 237820;15;10;;4.2
Lab ID : 237820
Inj Date : 01-NOV-2000 02:44
Operator : SUEZ MAM 11/8/00
Cpnd Sublist: PCB8082+
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Decachlorobiphenyl	(M)	25.483	25.507	0.023	113626	57.326	39.893

COMMENTS:

M - Compound response manually integrated.



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-31-00/31oct00a.b/Pf8082.m
Sample Info : 237820;15;10;;4.2
Lab ID : 237820 Inst ID : PESTGC5.i
Inj Date : 01-NOV-2000 02:44 Dil Factor : 1
Operator : SUEZ MAM 11/8/00 Sample Matrix : SOIL
Cpnd Sublist: PCB8082+ Sample Type: SAMPLE

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Decachlorobiphenyl	(M)	26.983	27.010	0.027	296509	54.625	38.013

COMMENTS:

M - Compound response manually integrated.

MULTICOMPONENT COMPOUND CONTINUING CALIBRATION REPORT

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-31-00/31oct00b.b/pr026393.d
Method: /chem1/PESTGC5.i/8082/rear/Oct00/10-31-00/31oct00b.b/Pr8082.m

Sample Information: 1016/1260-1000b
Injection Date: 01-NOV-2000 04:16

Compound	Signal No.	RT	Exp Conc	Actual Conc	Percent Diff.
Aroclor-1016	1	4.947	1000	1078.99	7.90
Aroclor-1016	2	6.160	1000	1020.02	2.00
Aroclor-1016	3	7.107	1000	1061.17	6.12
Aroclor-1016	4	7.343	1000	1096.52	9.65
Aroclor-1016	5	7.903	1000	1085.67	8.57
Aroclor-1016	6	8.627	1000	1045.62	4.56
Aroclor-1016	7	9.640	1000	1084.28	8.43
Aroclor-1016	8	10.103	1000	983.69	1.63
Aroclor-1260	1	14.253	1000	1047.93	4.79
Aroclor-1260	2	16.447	1000	1064.41	6.44
Aroclor-1260	3	16.587	1000	1017.33	1.73
Aroclor-1260	4	16.857	1000	1084.90	8.49
Aroclor-1260	5	18.100	1000	1001.31	0.13
Aroclor-1260	6	18.717	1000	1088.76	8.88
Aroclor-1260	7	20.660	1000	1087.55	8.76
Aroclor-1260	8	22.673	1000	1117.39	11.74

Surrogate	RT	Exp Conc	Actual Conc	Percent Diff.
Tetrachloro-m-xylene	3.423	100	107.95	7.95
Decachlorobiphenyl	25.493	100	108.66	8.66

GC ORGANICS RETENTION TIME CHECK

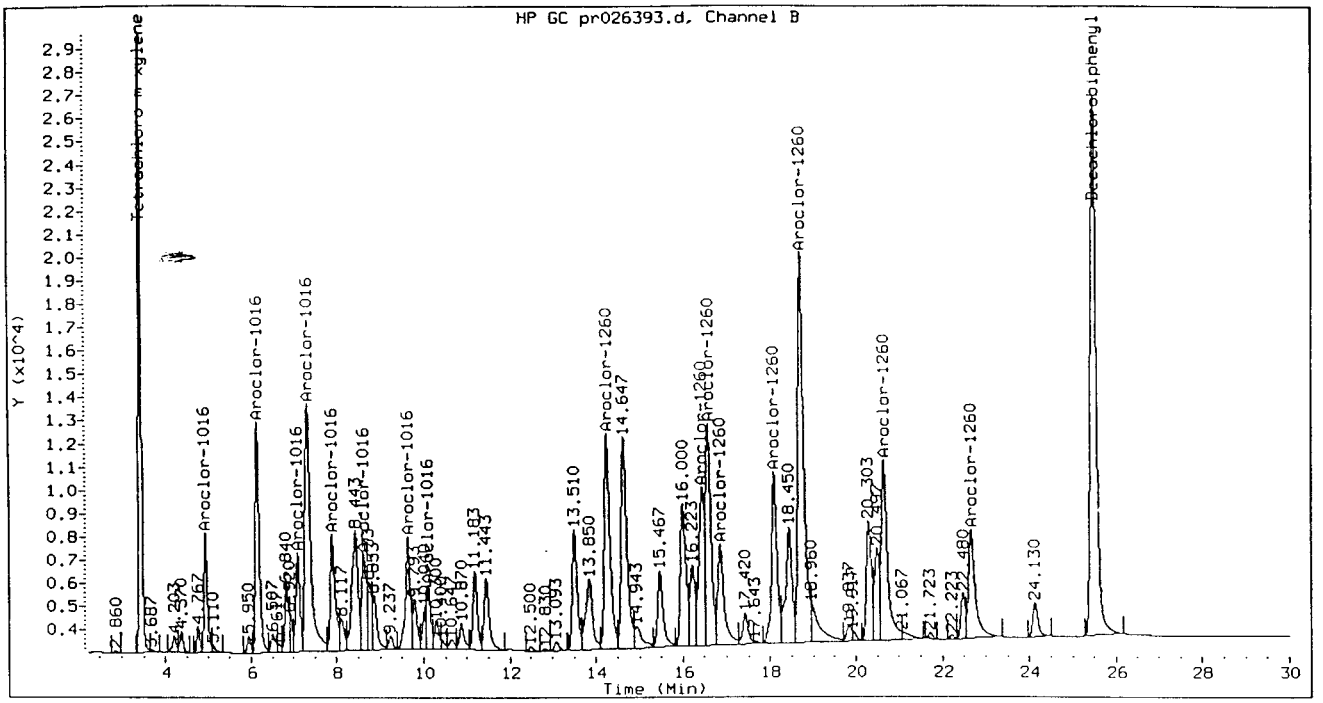
Instrument ID: PESTGC5.i

Midpoint Calibration File: /chem1/PESTGC5.i/8082/rear/Oct00/10-30-00/30oct00a.b/pr026342.d
Injection Date: 30-OCT-2000 15:14

Continuing Calibration File: /chem1/PESTGC5.i/8082/rear/Oct00/10-31-00/31oct00b.b/pr026393.d
Injection Date: 01-NOV-2000 04:16

Compound	Init Cal RT	RT Range	Cont Cal RT	Flags
Aroclor-1016	4.957	(4.887 - 5.027)	4.947	
	6.173	(6.103 - 6.243)	6.160	
	7.120	(7.050 - 7.190)	7.107	
	7.357	(7.287 - 7.427)	7.343	
	7.917	(7.847 - 7.987)	7.903	
	8.640	(8.570 - 8.710)	8.627	
	9.653	(9.583 - 9.723)	9.640	
	10.120	(10.050 - 10.190)	10.103	
Aroclor-1260	14.267	(14.197 - 14.337)	14.253	
	16.457	(16.387 - 16.527)	16.447	
	16.597	(16.527 - 16.667)	16.587	
	16.870	(16.800 - 16.940)	16.857	
	18.113	(18.043 - 18.183)	18.100	
	18.730	(18.660 - 18.800)	18.717	
	20.667	(20.597 - 20.737)	20.660	
	22.677	(22.607 - 22.747)	22.673	
Tetrachloro-m-xylene	3.430	(3.380 - 3.480)	3.423	
Decachlorobiphenyl	25.503	(25.403 - 25.603)	25.493	

Data File: /chem1/PESTGC5.i/8082/rear/Oct00/10-31-00/31oct00b.b/pr026393.d Page 1
Report Date 11/02/2000 08:37



Method : /chem1/PESTGC5.i/8082/rear/Oct00/10-31-00/31oct00b.b/Pr8082.m
Sample Info : 1016/1260-1000b
Lab ID : 1016/1260-1000b
Inj Date : 01-NOV-2000 04:16
Operator : SUEZ ~11-2-00
Cpnd Sublist: AR16600S

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CCALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1016	(M)	4.947	4.947	0.000	27525	1078.986	1078.986
(2)		6.160	6.160	0.000	64353	1020.018	1020.018
(3)		7.107	7.107	0.000	27402	1061.174	1061.174
(4)		7.343	7.343	0.000	102592	1096.524	1096.524
(5)		7.903	7.903	0.000	38511	1085.671	1085.671
(6)		8.627	8.627	0.000	29392	1045.616	1045.616
(7)		9.640	9.640	0.000	37319	1084.281	1084.281
(8)		10.103	10.103	0.000	19811	983.685	983.685
Average of peak concentrations:							1000.00
Aroclor-1260	(M)	14.253	14.253	0.000	84695	1047.932	1047.932
(2)		16.447	16.447	0.000	57072	1064.406	1064.406
(3)		16.587	16.587	0.000	83698	1017.326	1017.326
(4)		16.857	16.857	0.000	43979	1084.902	1084.902
(5)		18.100	18.100	0.000	64032	1001.309	1001.309
(6)		18.717	18.717	0.000	161193	1088.760	1088.760

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/kg)
(7)		20.660	20.660	0.000	78990	1087.554	1087.554
(8)		22.673	22.673	0.000	50112	1117.388	1117.388
Average of peak concentrations:							1100.00
Tetrachloro-m-xylene	(M)	3.423	3.423	0.000	117973	107.949	107.949
Decachlorobiphenyl	(M)	25.493	25.493	0.000	215375	108.660	108.660

COMMENTS:
M - Compound response manually integrated.

MULTICOMPONENT COMPOUND CONTINUING CALIBRATION REPORT

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-31-00/31oct00b.b/pf026393.d
Method: /chem1/PESTGC5.i/8082/front/Oct00/10-31-00/31oct00b.b/Pf8082.m

Sample Information: 1016/1260-1000b
Injection Date: 01-NOV-2000 04:16

Compound	Signal No.	RT	Exp Conc	Actual Conc	Percent Diff.
Aroclor-1016	1	5.560	1000	1140.36	14.04
Aroclor-1016	2	6.770	1000	1039.40	3.94
Aroclor-1016	3	7.380	1000	1000.04	0.00
Aroclor-1016	4	8.270	1000	1115.27	11.53
Aroclor-1016	5	9.437	1000	1009.16	0.92
Aroclor-1016	6	9.610	1000	1030.58	3.06
Aroclor-1016	7	10.213	1000	1067.64	6.76
Aroclor-1016	8	10.683	1000	1069.47	6.95
Aroclor-1260	1	15.173	1000	1017.55	1.76
Aroclor-1260	2	16.177	1000	1002.09	0.21
Aroclor-1260	3	17.320	1000	1010.23	1.02
Aroclor-1260	4	17.993	1000	955.34	4.47
Aroclor-1260	5	18.953	1000	982.35	1.76
Aroclor-1260	6	21.343	1000	1034.84	3.48
Aroclor-1260	7	21.883	1000	1049.69	4.97
Aroclor-1260	8	23.927	1000	1073.66	7.37

Surrogate	RT	Exp Conc	Actual Conc	Percent Diff.
Tetrachloro-m-xylene	4.657	100	108.66	8.66
Decachlorobiphenyl	26.990	100	104.51	4.51

GC ORGANICS RETENTION TIME CHECK

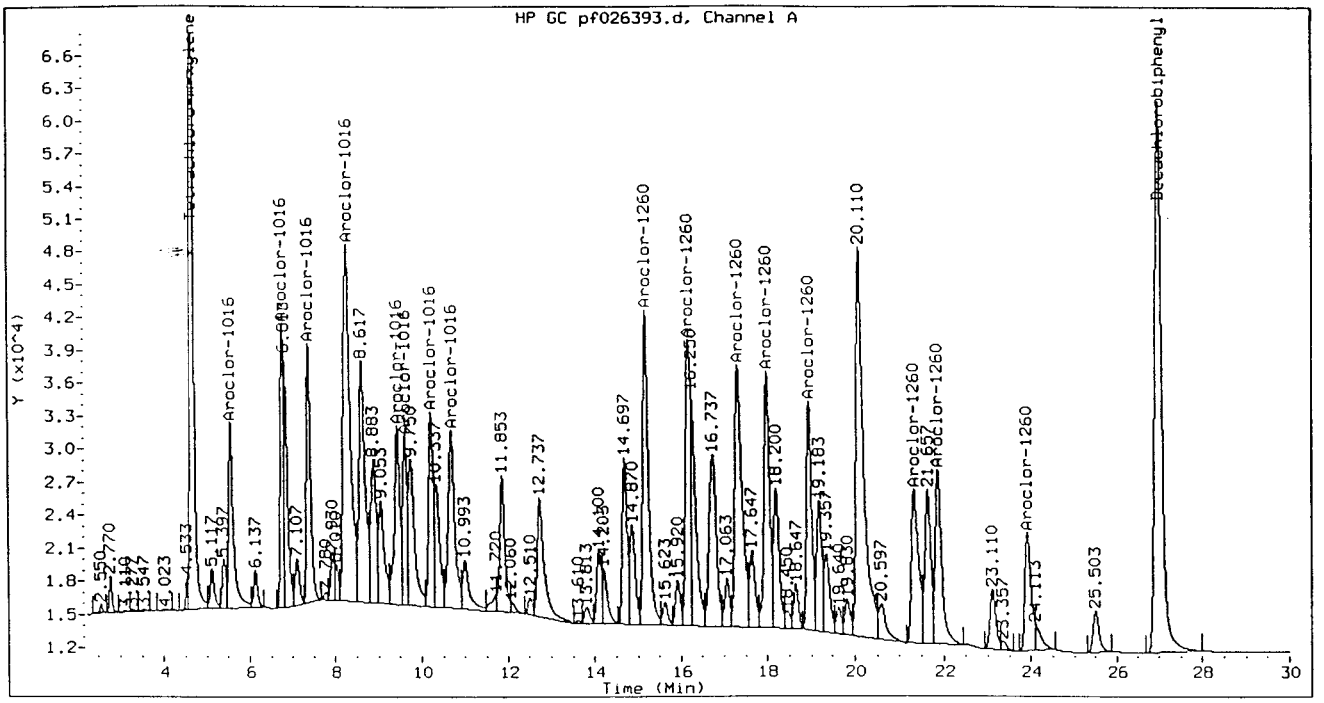
Instrument ID: PESTGC5.i

Midpoint Calibration File: /chem1/PESTGC5.i/8082/front/Oct00/10-30-00/30oct00a.b/pf026342.d
Injection Date: 30-OCT-2000 15:14

Continuing Calibration File: /chem1/PESTGC5.i/8082/front/Oct00/10-31-00/31oct00b.b/pf026393.d
Injection Date: 01-NOV-2000 04:16

Compound	Init Cal RT	RT Range	Cont Cal RT	Flags
Aroclor-1016	5.577	(5.507 - 5.647)	5.560	
	6.787	(6.717 - 6.857)	6.770	
	7.397	(7.327 - 7.467)	7.380	
	8.287	(8.217 - 8.357)	8.270	
	9.457	(9.387 - 9.527)	9.437	
	9.627	(9.557 - 9.697)	9.610	
	10.233	(10.163 - 10.303)	10.213	
	10.700	(10.630 - 10.770)	10.683	
Aroclor-1260	15.193	(15.123 - 15.263)	15.173	
	16.193	(16.123 - 16.263)	16.177	
	17.333	(17.263 - 17.403)	17.320	
	18.007	(17.937 - 18.077)	17.993	
	18.967	(18.897 - 19.037)	18.953	
	21.347	(21.277 - 21.417)	21.343	
	21.900	(21.830 - 21.970)	21.883	
	23.933	(23.863 - 24.003)	23.927	
Tetrachloro-m-xylene	4.670	(4.620 - 4.720)	4.657	
Decachlorobiphenyl	27.007	(26.907 - 27.107)	26.990	

Data File: /chem1/PESTGC5.i/8082/front/Oct00/10-31-00/31oct00b.b/pf026393.d Page 1
Report Date 11/02/2000 08:38



Method : /chem1/PESTGC5.i/8082/front/Oct00/10-31-00/31oct00b.b/Pf8082.m
Sample Info : 1016/1260-1000b
Lab ID : 1016/1260-1000b
Inj Date : 01-NOV-2000 04:16
Operator : SUEZ ~11-200
Cpnd Sublist: AR16600S
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CCALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1016	(M)	5.560	5.560	0.000	131557	1140.365	1140.365
(2)		6.770	6.770	0.000	142703	1039.397	1039.397
(3)		7.380	7.380	0.000	159747	1000.041	1000.041
(4)		8.270	8.270	0.000	378333	1115.270	1115.270
(5)		9.437	9.437	0.000	141503	1009.160	1009.160
(6)		9.610	9.610	0.000	111974	1030.585	1030.585
(7)		10.213	10.213	0.000	138065	1067.641	1067.641
(8)		10.683	10.683	0.000	168290	1069.472	1069.472
Average of peak concentrations:							1000.00
Aroclor-1260	(M)	15.173	15.173	0.000	265364	1017.552	1017.552
(2)		16.177	16.177	0.000	217030	1002.093	1002.093
(3)		17.320	17.320	0.000	278482	1010.233	1010.233
(4)		17.993	17.993	0.000	206589	955.342	955.342
(5)		18.953	18.953	0.000	172750	982.352	982.352
(6)		21.343	21.343	0.000	162856	1034.839	1034.839

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/kg)
(7)		21.883	21.883	0.000	159939	1049.688	1049.688
(8)		23.927	23.927	0.000	111074	1073.658	1073.658
Average of peak concentrations:							1000.00
Tetrachloro-m-xylene	(M)	4.657	4.657	0.000	551730	108.657	108.657
Decachlorobiphenyl	(M)	26.990	26.990	0.000	567320	104.515	104.515

COMMENTS:
M - Compound response manually integrated.

Client ID: **EB-1 6-12**
Site: **Rexam DSI**

Lab Sample No: 237812
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00

Matrix: SOLID
Level: LOW
% Moisture: 15.0

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Antimony	ND	1.4	N	P
Arsenic	9.9	0.75		P
Beryllium	0.59	0.071		P
Cadmium	ND	0.094		P
Chromium	6.4	0.38		P
Copper	12.2	0.87	*	P
Lead	9.6	0.54	*	P
Mercury	0.04	0.020	B	CV
Nickel	41.1	0.38		P
Selenium	ND	0.99		P
Silver	ND	0.33		P
Thallium	ND	1.1		P
Zinc	17.5	1.4		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **EB-2 Catch Basin**
Site: **Rexam DSI**

Lab Sample No: 237813
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00

Matrix: SOLID
Level: LOW
% Moisture: 16.3

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Antimony	ND	1.4	N	P
Arsenic	0.87	0.76	B	P
Beryllium	0.20	0.072	B	P
Cadmium	ND	0.096		P
Chromium	14.0	0.38		P
Copper	15.3	0.88	*	P
Lead	12.4	0.55	*	P
Mercury	ND	0.020		CV
Nickel	8.7	0.38	B	P
Selenium	ND	1.0		P
Silver	ND	0.33		P
Thallium	ND	1.1		P
Zinc	259	1.4		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **EB-3 16-16.5**
Site: **Rexam DSI**

Lab Sample No: 237814
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00

Matrix: SOLID
Level: LOW
% Moisture: 23.1

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Antimony	ND	1.5	N	P
Arsenic	5.1	0.83		P
Beryllium	0.29	0.078	B	P
Cadmium	ND	0.10		P
Chromium	5.7	0.42		P
Copper	35.5	0.96	*	P
Lead	33.3	0.60	*	P
Mercury	0.34	0.022		CV
Nickel	13.7	0.42		P
Selenium	ND	1.1		P
Silver	ND	0.36		P
Thallium	ND	1.2		P
Zinc	170	1.5		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **EB-4 1.5-2**
Site: **Rexam DSI**

Lab Sample No: 237815
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00

Matrix: SOLID
Level: LOW
% Moisture: 7.9

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Antimony	ND	1.1	N	P
Arsenic	2.2	0.63		P
Beryllium	0.21	0.059	B	P
Cadmium	ND	0.079		P
Chromium	5.5	0.32		P
Copper	15.7	0.73	*	P
Lead	21.8	0.45	*	P
Mercury	0.07	0.018		CV
Nickel	5.4	0.32	B	P
Selenium	ND	0.83		P
Silver	ND	0.28		P
Thallium	ND	0.93		P
Zinc	38.5	1.1		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **TPE-3**
Site: **Rexam DSI**

Lab Sample No: 237820
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00

Matrix: SOLID
Level: LOW
% Moisture: 4.2

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Antimony	ND	1.2	N	P
Arsenic	ND	0.67		P
Beryllium	0.39	0.063	B	P
Cadmium	ND	0.084		P
Chromium	4.6	0.33		P
Copper	6.6	0.77	*	P
Lead	3.0	0.48	*	P
Mercury	ND	0.017		CV
Nickel	5.9	0.33	B	P
Selenium	ND	0.88		P
Silver	ND	0.29		P
Thallium	ND	0.98		P
Zinc	12.8	1.2		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: MW-1
Site: Rexam DSI

Lab Sample No: 237821
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Antimony	ND	4.5	P
Arsenic	ND	3.6	P
Beryllium	ND	0.20	P
Cadmium	ND	0.40	P
Chromium	ND	1.1	P
Copper	ND	2.7	P
Lead	ND	2.1	P
Mercury	ND	0.10	CV
Nickel	1.6	1.4	P
Selenium	ND	4.5	P
Silver	ND	1.1	P
Thallium	ND	4.1	P
Zinc	20.8	5.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **PZ-2**
Site: **Rexam DSI**

Lab Sample No: 237822
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Antimony	ND	4.5	P
Arsenic	6.6	3.6	P
Beryllium	ND	0.20	P
Cadmium	ND	0.40	P
Chromium	1.5	1.1	P
Copper	3.4	2.7	P
Lead	75.2	2.1	P
Mercury	ND	0.10	CV
Nickel	2.0	1.4	P
Selenium	ND	4.5	P
Silver	ND	1.1	P
Thallium	ND	4.1	P
Zinc	13.6	5.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **Field Blank-1025**
Site: **Rexam DSI**

Lab Sample No: 237824
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Antimony	ND	4.5	P
Arsenic	ND	3.6	P
Beryllium	ND	0.20	P
Cadmium	ND	0.40	P
Chromium	ND	1.1	P
Copper	ND	2.7	P
Lead	ND	2.1	P
Mercury	ND	0.10	CV
Nickel	ND	1.4	P
Selenium	ND	4.5	P
Silver	ND	1.1	P
Thallium	ND	4.1	P
Zinc	103	5.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **Field Blank-1026**
Site: **Rexam DSI**

Lab Sample No: 237831
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Antimony	ND	4.5	P
Arsenic	ND	3.6	P
Beryllium	ND	0.20	P
Cadmium	ND	0.40	P
Chromium	ND	1.1	P
Copper	ND	2.7	P
Lead	ND	2.1	P
Mercury	ND	0.10	CV
Nickel	ND	1.4	P
Selenium	ND	4.5	P
Silver	ND	1.1	P
Thallium	ND	4.1	P
Zinc	23.8	5.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **EB-4 16-16.5**
Site: **Rexam DSI**

Lab Sample No: 237839
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00

Matrix: SOLID
Level: LOW
% Moisture: 7.8

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Antimony	ND	1.3	N	P
Arsenic	1.6	0.69		P
Beryllium	0.24	0.065	B	P
Cadmium	ND	0.087		P
Chromium	6.7	0.35		P
Copper	11.3	0.80	*	P
Lead	34.2	0.50	*	P
Mercury	0.14	0.018		CV
Nickel	6.9	0.35	B	P
Selenium	ND	0.91		P
Silver	ND	0.30		P
Thallium	ND	1.0		P
Zinc	61.9	1.3		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

BLANKS

Lab Name: STL_ENVIROTECH_____ _____

Lab Code: 12543_ Lab Job No.: _F104 _____ Batch No.: 10423_

Preparation Blank Matrix (soil/water): SOIL_

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	62.6	U	62.6	U	62.6	U	81.6	B	6.260	U	P
Antimony	5.8	U	5.8	U	5.8	U	5.8	U	0.580	U	P
Arsenic	3.2	U	3.2	U	3.2	U	3.2	U	0.320	U	P
Barium	1.7	U	1.7	U	1.7	U	1.7	U	0.170	U	P
Beryllium	0.3	U	0.3	U	0.3	U	0.3	U	0.030	U	P
Cadmium	0.4	U	0.4	U	0.4	U	0.4	U	0.040	U	P
Calcium	42.5	U	42.5	U	66.9	B	42.5	U	4.250	U	P
Chromium	1.6	U	1.6	U	1.6	U	1.6	U	0.160	U	P
Cobalt	1.7	U	1.7	U	1.7	U	1.7	U	0.170	U	P
Copper	3.7	U	3.7	U	3.7	U	3.7	U	0.370	U	P
Iron	39.2	U	39.2	U	39.2	U	39.2	U	3.920	U	P
Lead	2.3	U	2.3	U	2.3	U	2.3	U	0.230	U	P
Magnesium	41.6	U	41.6	U	41.6	U	43.2	B	4.160	U	P
Manganese	1.2	U	1.2	U	1.2	U	1.2	U	0.120	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.017	U	CV
Nickel	1.6	U	1.6	U	1.6	U	1.6	U	0.160	U	P
Potassium	315.4	U	315.4	U	315.4	U	315.4	U	31.540	U	P
Selenium	4.2	U	4.2	U	4.2	U	4.2	U	0.420	U	P
Silver	1.4	U	1.4	U	1.4	U	1.4	U	0.140	U	P
Sodium	395.5	U	395.5	U	395.5	U	395.5	U	39.550	U	P
Thallium	4.7	U	4.7	U	4.7	U	4.7	U	0.470	U	P
Vanadium	1.8	U	1.9	B	2.5	B	2.9	B	0.180	U	P
Zinc	5.8	U	5.8	U	5.8	U	5.8	U	0.580	U	P
Boron											NR

BLANKS

Lab Name: STL_ENVIROTECH_____ _____

Lab Code: 12543 Lab Job No.: _F104 _____ Batch No.: 10423_

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
uminum			62.6	U	142.5	B					P
Antimony			5.8	U	5.8	U					P
Arsenic			3.2	U	3.2	U					P
Barium			1.7	U	1.7	U					P
ryllium			0.3	U	0.3	U					P
dmium			0.4	U	0.4	U					P
Calcium			42.5	U	42.5	U					P
Chromium			1.6	U	1.6	U					P
Cobalt			1.7	U	1.7	U					P
Copper			3.7	U	3.7	U					P
Iron			39.2	U	39.2	U					P
Lead			2.3	U	2.3	U					P
Magnesium			41.6	U	49.6	B					P
Manganese			1.2	U	1.2	U					P
Mercury			0.1	U							CV
Nickel			1.6	U	1.6	U					P
Potassium			315.4	U	315.4	U					P
Selenium			4.2	U	4.2	U					P
Silver			1.4	U	1.4	U					P
Sodium			395.5	U	395.5	U					P
Thallium			4.7	U	4.7	U					P
Vanadium			2.6	B	2.5	B					P
Zinc			5.8	U	5.8	U					P
Boron											NR

BLANKS

Lab Name: STL_ENVIROTECH_____ _____

Lab Code: 12543_ Lab Job No.: _F104 _____ Batch No.: 10425_

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
·uminum	58.6	U	58.6	U	58.6	U	58.6	U	58.620	U	P
imony	4.5	U	4.5	U	4.5	U	4.5	U	4.540	U	P
Arsenic	3.6	U	3.6	U	3.6	U	3.6	U	3.550	U	P
Barium	1.6	B	1.5	U	1.5	U	1.5	U	1.520	U	P
Beryllium	0.2	U	0.2	U	0.2	U	0.2	U	0.200	U	P
dmium	0.4	U	0.4	U	0.4	U	0.4	U	0.370	U	P
Calcium	38.4	U	38.4	U	38.4	U	38.4	U	38.450	U	P
Chromium	1.1	U	1.1	U	1.1	U	1.1	U	1.100	U	P
Cobalt	1.0	U	1.0	U	1.0	U	1.0	U	0.980	U	P
Copper	2.7	U	2.7	U	2.7	U	2.7	U	2.700	U	P
Iron	37.1	U	37.1	U	37.1	U	37.1	U	37.090	U	P
Lead	2.1	U	2.1	U	2.1	U	2.1	U	2.070	U	P
Magnesium	31.9	U	31.9	U	31.9	U	31.9	U	31.930	U	P
Manganese	1.0	U	1.0	U	1.0	U	1.0	U	1.020	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.100	U	CV
Nickel	1.4	U	1.4	U	1.4	U	1.4	U	1.390	U	P
Potassium	254.1	U	254.1	U	254.1	U	254.1	U	254.110	U	P
Selenium	4.5	U	4.5	U	4.5	U	4.5	U	4.530	U	P
Silver	1.1	U	1.1	U	1.1	U	1.1	U	1.100	U	P
Sodium	351.8	U	351.8	U	351.8	U	351.8	U	351.820	U	P
Thallium	4.1	U	4.1	U	4.1	U	4.1	U	4.140	U	P
Vanadium	1.3	U	1.3	U	1.3	U	1.3	U	1.270	U	P
Zinc	5.2	U	5.2	U	5.2	U	5.2	U	5.180	U	P
Molybdenu											NR

BLANKS

Lab Name: STL_ENVIROTECH_____ _____

Lab Code: 12543_ Lab Job No.: _F104 _____ Batch No.: 10425_

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			58.6	U							P
Antimony			4.5	U							P
Arsenic			3.6	U							P
Barium			1.5	U							P
Beryllium			0.2	U							P
Cadmium			0.4	U							P
Calcium			38.4	U							P
Chromium			1.1	U							P
Cobalt			1.0	U							P
Copper			2.7	U							P
Iron			37.1	U							P
Lead			2.1	U							P
Magnesium			31.9	U							P
Manganese			1.0	U							P
Mercury			0.1	U							CV
Nickel			1.4	U							P
Potassium			254.1	U							P
Selenium			5.7								P
Silver			1.1	U							P
Sodium			351.8	U							P
Thallium			4.1	U							P
Vanadium			1.3	U							P
Zinc			5.2	U							P
Molybdenum											NR

BLANKS

Lab Name: STL_ENVIROTECH_____ _____

Lab Code: 12543_ Lab Job No.: _F104 _____ Batch No.: 10425_

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
ıminum											NR
.imony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
dmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium	254.1	U	254.1	U	254.1	U	254.1	U			P
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc	5.2	U	5.2	U	5.2	U	5.2	U			P
Molybdenu											NR

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_ENVIROTECH_____ _____

Lab Code: 12543_ Lab Job No.: F104 _____ Batch No.: 10423_

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum	125000.0	125552.0	100.4	125000.0	122260.7	97.8	122634.0	98.1	P
Antimony	1000.0	995.29	99.5	1000.0	956.48	95.6	963.18	96.3	P
Arsenic	5000.0	5076.02	101.5	5000.0	4971.68	99.4	5042.37	100.8	P
Barium	10000.0	10008.69	100.1	10000.0	9598.14	96.0	9604.97	96.0	P
Beryllium	1000.0	997.34	99.7	1000.0	962.63	96.3	963.02	96.3	P
Cadmium	2500.0	2546.66	101.9	2500.0	2519.94	100.8	2547.44	101.9	P
Calcium	125000.0	125572.5	100.5	125000.0	121649.9	97.3	124602.3	99.7	P
Chromium	5000.0	5002.30	100.0	5000.0	4887.26	97.7	4925.63	98.5	P
Cobalt	2500.0	2473.17	98.9	2500.0	2433.96	97.4	2461.98	98.5	P
Copper	12500.0	12530.88	100.2	12500.0	12077.91	96.6	12076.14	96.6	P
Iron	100000.0	99821.98	99.8	100000.0	97313.35	97.3	98010.54	98.0	P
Lead	10000.0	9985.30	99.9	10000.0	9828.98	98.3	9985.87	99.9	P
Magnesium	125000.0	124005.2	99.2	125000.0	121222.4	97.0	122376.7	97.9	P
Manganese	5000.0	4987.29	99.7	5000.0	4821.22	96.4	4836.84	96.7	P
Mercury	5.0	4.90	98.0	5.0	5.04	100.8	4.90	98.0	CV
Nickel	2500.0	2466.20	98.6	2500.0	2446.52	97.9	2478.92	99.2	P
Potassium	50000.0	50390.41	100.8	50000.0	49639.80	99.3	49927.73	99.9	P
Selenium	5000.0	5116.52	102.3	5000.0	5025.34	100.5	5114.41	102.3	P
Silver	1250.0	1258.93	100.7	1250.0	1214.82	97.2	1211.98	97.0	P
Sodium	125000.0	125598.6	100.5	125000.0	123166.6	98.5	123324.0	98.7	P
Thallium	5000.0	5015.48	100.3	5000.0	4955.75	99.1	5015.08	100.3	P
Vanadium	2500.0	2484.39	99.4	2500.0	2396.66	95.9	2398.98	96.0	P
Zinc	7500.0	7364.93	98.2	7500.0	7272.02	97.0	7369.98	98.3	P
Boron									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_ENVIROTECH

Lab Code: 12543_ Lab Job No.: F104 Batch No.: 10423_

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum				125000.0	121526.7	97.2	122945.9	98.4	P
Antimony				1000.0	948.68	94.9	955.21	95.5	P
Arsenic				5000.0	4974.07	99.5	4975.28	99.5	P
Barium				10000.0	9586.49	95.9	9796.56	98.0	P
Beryllium				1000.0	948.19	94.8	944.08	94.4	P
Cadmium				2500.0	2520.96	100.8	2492.57	99.7	P
Calcium				125000.0	122260.4	97.8	119026.6	95.2	P
Chromium				5000.0	4861.92	97.2	4866.57	97.3	P
Cobalt				2500.0	2430.69	97.2	2426.55	97.1	P
Copper				12500.0	12026.64	96.2	12270.00	98.2	P
Iron				100000.0	96781.25	96.8	96659.17	96.7	P
Lead				10000.0	9807.40	98.1	9707.67	97.1	P
Magnesium				125000.0	119702.8	95.8	118226.9	94.6	P
Manganese				5000.0	4771.85	95.4	4790.14	95.8	P
Mercury				5.0	4.84	96.8	4.80	96.0	CV
Nickel				2500.0	2453.62	98.1	2451.60	98.1	P
Potassium				50000.0	49439.18	98.9	49393.20	98.8	P
Selenium				5000.0	5046.50	100.9	5047.68	101.0	P
Silver				1250.0	1204.89	96.4	1220.52	97.6	P
Sodium				125000.0	121954.8	97.6	122424.7	97.9	P
Thallium				5000.0	4967.47	99.3	4970.37	99.4	P
Vanadium				2500.0	2369.49	94.8	2382.22	95.3	P
Zinc				7500.0	7196.54	96.0	7045.15	93.9	P
Boron									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_ENVIROTECH

Lab Code: 12543 Lab Job No.: F104 Batch No.: 10423

Initial Calibration Source: INORG VENT

Continuing Calibration Source: INORG VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum				125000.0	121397.1	97.1			P
Antimony				1000.0	942.68	94.3			P
Arsenic				5000.0	4889.65	97.8			P
Barium				10000.0	9689.80	96.9			P
Beryllium				1000.0	929.53	93.0			P
Cadmium				2500.0	2446.99	97.9			P
Calcium				125000.0	118685.1	94.9			P
Chromium				5000.0	4787.13	95.7			P
Cobalt				2500.0	2386.44	95.5			P
Copper				12500.0	12150.99	97.2			P
Iron				100000.0	95069.17	95.1			P
Lead				10000.0	9540.12	95.4			P
Magnesium				125000.0	115915.6	92.7			P
Manganese				5000.0	4719.73	94.4			P
Mercury									NR
Nickel				2500.0	2406.98	96.3			P
Potassium				50000.0	48745.42	97.5			P
Selenium				5000.0	4974.56	99.5			P
Silver				1250.0	1206.49	96.5			P
Sodium				125000.0	121295.3	97.0			P
Thallium				5000.0	4893.37	97.9			P
Vanadium				2500.0	2348.82	94.0			P
Zinc				7500.0	6893.12	91.9			P
Boron									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_ENVIROTECH_____ _____

Lab Code: 12543_ Lab Job No.: F104 _____ Batch No.: 10425_

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum	125000.0	126332.4	101.1	125000.0	122239.9	97.8	122862.0	98.3	P
Antimony	1000.0	997.84	99.8	1000.0	984.96	98.5	983.98	98.4	P
enic	5000.0	4946.84	98.9	5000.0	4901.01	98.0	4890.26	97.8	P
ium	10000.0	10242.87	102.4	10000.0	9921.51	99.2	9994.71	99.9	P
Beryllium	1000.0	984.00	98.4	1000.0	982.31	98.2	976.52	97.7	P
Cadmium	2500.0	2444.13	97.8	2500.0	2460.59	98.4	2442.63	97.7	P
Calcium	125000.0	123039.6	98.4	125000.0	123483.8	98.8	122912.2	98.3	P
romium	5000.0	4966.48	99.3	5000.0	4948.61	99.0	4935.49	98.7	P
obalt	2500.0	2476.04	99.0	2500.0	2465.22	98.6	2456.63	98.3	P
Copper	12500.0	12801.81	102.4	12500.0	12411.80	99.3	12491.00	99.9	P
Iron	100000.0	99315.73	99.3	100000.0	98289.47	98.3	98171.15	98.2	P
Lead	10000.0	9766.91	97.7	10000.0	9767.61	97.7	9695.42	97.0	P
Magnesium	125000.0	123993.0	99.2	125000.0	123427.2	98.7	122993.9	98.4	P
Manganese	5000.0	4957.42	99.1	5000.0	4926.28	98.5	4917.50	98.4	P
Mercury	5.0	5.20	104.0	5.0	5.22	104.4	5.04	100.8	CV
Nickel	2500.0	2469.34	98.8	2500.0	2464.37	98.6	2448.79	98.0	P
Potassium	50000.0	50427.39	100.9	50000.0	48578.46	97.2	48936.72	97.9	P
Selenium	5000.0	4874.43	97.5	5000.0	4828.90	96.6	4809.12	96.2	P
Silver	1250.0	1264.01	101.1	1250.0	1233.60	98.7	1235.91	98.9	P
Sodium	125000.0	128264.9	102.6	125000.0	124405.5	99.5	124947.5	100.0	P
Thallium	5000.0	4937.21	98.7	5000.0	4898.21	98.0	4893.33	97.9	P
Vanadium	2500.0	2500.82	100.0	2500.0	2479.90	99.2	2479.55	99.2	P
Zinc	2500.0	2483.12	99.3	2500.0	2464.81	98.6	2458.01	98.3	P
Molybdenu									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_ENVIROTECH_____ _____

Lab Code: 12543_ Lab Job No.: F104 _____ Batch No.: 10425_

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum				125000.0	122534.3	98.0	126819.1	101.5	P
Antimony				1000.0	988.09	98.8	995.23	99.5	P
enic				5000.0	4975.67	99.5	4923.56	98.5	P
ium				10000.0	9953.53	99.5	10298.69	103.0	P
Beryllium				1000.0	991.44	99.1	975.25	97.5	P
Cadmium				2500.0	2507.12	100.3	2429.37	97.2	P
alcium				125000.0	125909.4	100.7	122673.7	98.1	P
romium				5000.0	5021.02	100.4	4956.11	99.1	P
obalt				2500.0	2513.05	100.5	2472.59	98.9	P
Copper				12500.0	12256.44	98.1	12711.87	101.7	P
Iron				100000.0	101444.7	101.4	100440.6	100.4	P
Lead				10000.0	9919.29	99.2	9691.92	96.9	P
Magnesium				125000.0	125318.8	100.3	123782.7	99.0	P
Manganese				5000.0	4970.98	99.4	4929.30	98.6	P
Mercury				5.0	4.78	95.6	4.68	93.6	CV
Nickel				2500.0	2511.98	100.5	2460.04	98.4	P
Potassium				50000.0	47918.17	95.8	50114.67	100.2	P
Selenium				5000.0	4875.90	97.5	4872.01	97.4	P
Silver				1250.0	1230.59	98.4	1261.66	100.9	P
Sodium				125000.0	124414.1	99.5	128302.7	102.6	P
Thallium				5000.0	4995.36	99.9	4935.03	98.7	P
Vanadium				2500.0	2478.44	99.1	2472.15	98.9	P
Zinc				2500.0	2484.67	99.4	2468.62	98.7	P
Molybdenu									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_ENVIROTECH

Lab Code: 12543 Lab Job No.: F104 Batch No.: 10425

Initial Calibration Source: INORG VENT

Continuing Calibration Source: INORG VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	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									NR
Nickel									NR
Potassium	50000.0	50892.71	101.8	50000.0	51505.61	103.0	50785.90	101.6	P
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc	2500.0	2499.44	100.0	2500.0	2512.08	100.5	2521.54	100.9	P
Molybdenum									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_ENVIROTECH_____ _____

Lab Code: 12543_ Lab Job No.: F104 _____ Batch No.: 10425_

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum_									NR
Antimony_									NR
senic__									NR
ium___									NR
Beryllium									NR
Cadmium__									NR
Calcium__									NR
romium_									NR
obalt___									NR
Copper___									NR
Iron____									NR
Lead____									NR
Magnesium									NR
Manganese									NR
Mercury__									NR
Nickel___									NR
Potassium				50000.0	51395.64	102.8			P_
Selenium_									NR
Silver___									NR
Sodium___									NR
Thallium_									NR
Vanadium_									NR
Zinc____				2500.0	2515.40	100.6			P_
Molybdenu									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL_ENVIROTECH

Lab Code: 12543 Lab Job No.: F104 Batch No.: 10423

ICP ID Number: TRACE3 TJA61 ICS Source: INORG VENT

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	500000	500000	517652	486932.1	97.4	500887	474023.0	94.8
Antimony		100		102.1	102.1		100.1	100.1
Arsenic		100		99.4	99.4		95.0	95.0
Barium		100		104.1	104.1		102.2	102.2
Beryllium		100		98.9	98.9		92.6	92.6
Cadmium		100		97.4	97.4		94.4	94.4
Calcium	500000	500000	514814	478544.2	95.7	475197	448563.3	89.7
Chromium		100		103.2	103.2		100.4	100.4
Cobalt		100		95.6	95.6		92.9	92.9
Copper		100		100.4	100.4		97.0	97.0
Iron	200000	200000	201725	195050.4	97.5	191231	186670.7	93.3
Lead		100		95.9	95.9		91.8	91.8
Magnesium	500000	500000	528274	504434.6	100.9	489347	471865.1	94.4
Manganese		100		101.8	101.8		97.4	97.4
Mercury								
Nickel		100		97.6	97.6		95.7	95.7
Potassium		10000		9898.6	99.0		9549.0	95.5
Selenium		100		97.5	97.5		91.1	91.1
Silver		100		103.5	103.5		100.8	100.8
Sodium		10000		9051.7	90.5		8773.5	87.7
Thallium		100		96.0	96.0		96.3	96.3
Vanadium		100		99.9	99.9		97.3	97.3
Zinc		100		96.8	96.8		90.9	90.9

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL_ENVIROTECH

Lab Code: 12543 Lab Job No.: F104 Batch No.: 10425

ICP ID Number: TRACE1 TJA61 ICS Source: INORG VENT

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	500000	500000	492894	493199.9	98.6	491088	485587.3	97.1
Antimony		100		96.8	96.8		95.8	95.8
Arsenic		100		100.0	100.0		100.9	100.9
Barium		100		108.0	108.0		106.3	106.3
Beryllium		100		97.1	97.1		95.9	95.9
Cadmium		100		95.2	95.2		94.9	94.9
Calcium	500000	500000	471912	466030.1	93.2	480142	463902.6	92.8
Chromium		100		99.4	99.4		98.9	98.9
Cobalt		100		94.6	94.6		93.8	93.8
Copper		100		106.1	106.1		102.7	102.7
Iron	200000	200000	192288	194331.9	97.2	198600	194503.4	97.3
Lead		100		96.9	96.9		93.7	93.7
Magnesium	500000	500000	506447	510930.2	102.2	511962	506543.1	101.3
Manganese		100		100.2	100.2		99.1	99.1
Mercury								
Nickel		100		97.0	97.0		95.5	95.5
Potassium		10000		9956.7	99.6		9672.2	96.7
Selenium		100		99.0	99.0		94.8	94.8
Silver		100		105.6	105.6		103.2	103.2
Sodium		10000		10459.8	104.6		10268.7	102.7
Thallium		100		90.5	90.5		93.3	93.3
Vanadium		100		95.7	95.7		94.1	94.1
Zinc		100		100.0	100.0		98.3	98.3

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL_ENVIROTECH

Lab Code: 12543 Lab Job No.: F104 Batch No.: 10425

ICP ID Number: TRACE1 TJA61 ICS Source: INORG VENT

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	500000	500000	499997	500752.2	100.2	491930	498662.1	99.7
Antimony		100		97.7	97.7		99.5	99.5
Arsenic		100		98.3	98.3		104.6	104.6
Barium		100		108.9	108.9		107.9	107.9
Beryllium		100		98.3	98.3		100.5	100.5
Cadmium		100		97.3	97.3		98.9	98.9
Calcium	500000	500000	479121	467889.7	93.6	476957	475990.2	95.2
Chromium		100		101.1	101.1		101.9	101.9
Cobalt		100		94.9	94.9		96.1	96.1
Copper		100		106.9	106.9		106.3	106.3
Iron	200000	200000	195689	192489.0	96.2	191562	191155.6	95.6
Lead		100		95.6	95.6		98.1	98.1
Magnesium	500000	500000	514915	513167.2	102.6	511416	518829.0	103.8
Manganese		100		101.5	101.5		103.3	103.3
Mercury								
Nickel		100		97.5	97.5		99.6	99.6
Potassium		10000		10733.3	107.3		10758.5	107.6
Selenium		100		101.6	101.6		98.2	98.2
Silver		100		105.9	105.9		106.5	106.5
Sodium		10000		10628.4	106.3		10720.8	107.2
Thallium		100		87.4	87.4		96.2	96.2
Vanadium		100		97.5	97.5		100.0	100.0
Zinc		100		102.1	102.1		103.9	103.9

SPIKE SAMPLE RECOVERY

LAB SAMPLE NO.

BSS103000

Name: STL_ENVIROTECH

Lab Code: 12543 Lab Job No.: F104 Batch No.: 10423

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 100.0

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	75-125	209.6865		6.2600	U	200.00	104.8		P
Antimony	75-125	48.4299		0.5800	U	50.00	96.9		P
Arsenic	75-125	199.5148		0.3200	U	200.00	99.8		P
Barium	75-125	195.9834		0.1700	U	200.00	98.0		P
Beryllium	75-125	5.0461		0.0300	U	5.00	100.9		P
dmium	75-125	5.1921		0.0400	U	5.00	103.8		P
.cium	75-125	1996.2940		4.2500	U	2000.00	99.8		P
Chromium	75-125	20.6407		0.1600	U	20.00	103.2		P
Cobalt	75-125	50.3702		0.1700	U	50.00	100.7		P
Copper	75-125	24.9344		0.3700	U	25.00	99.7		P
on	75-125	103.8950		3.9200	U	100.00	103.9		P
ead	75-125	50.6780		0.2300	U	50.00	101.4		P
Magnesium	75-125	1947.6027		4.1600	U	2000.00	97.4		P
Manganese	75-125	49.8169		0.1200	U	50.00	99.6		P
Mercury	75-125	0.1375		0.0167	U	0.17	80.9		CV
Nickel	75-125	50.9567		0.1600	U	50.00	101.9		P
Potassium	75-125	1741.4641		31.5400	U	2000.00	87.1		P
Selenium	75-125	197.0597		0.4200	U	200.00	98.5		P
Silver	75-125	4.7528		0.1400	U	5.00	95.1		P
Sodium	75-125	1772.7977		39.5500	U	2000.00	88.6		P
Thallium	75-125	205.4501		0.4700	U	200.00	102.7		P
Vanadium	75-125	49.1561		0.1800	U	50.00	98.3		P
Zinc	75-125	50.6787		0.5800	U	50.00	101.4		P
Boron									NR

Comments:

SPIKE SAMPLE RECOVERY

LAB SAMPLE NO.

237820MS

Lab Name: STL_ENVIROTECH

Lab Code: 12543 Lab Job No.: F104 Batch No.: 10423

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 95.8

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		3198.6067		2897.3081		208.77	144.3		P
Antimony	75-125	37.5194		1.2109	U	52.19	71.9	N	P
Arsenic	75-125	195.0791		0.6681	U	208.77	93.4		P
Barium	75-125	200.8814		12.3355	B	208.77	90.3		P
Beryllium	75-125	5.2864		0.3910	B	5.22	93.8		P
Cadmium	75-125	4.8322		0.0835	U	5.22	92.6		P
Calcium		26266.9981		23994.7219		2087.68	108.8		P
Chromium	75-125	24.4326		4.5553		20.88	95.2		P
Cobalt	75-125	51.8484		3.4190	B	52.19	92.8		P
Copper	75-125	30.7207		6.6455		26.10	92.2		P
Iron		8047.0789		7503.3240		104.38	520.9		P
Lead	75-125	51.3864		2.9779		52.19	92.8		P
Magnesium	75-125	9904.3033		7438.9075		2087.68	118.1		P
Manganese	75-125	227.8942		164.9094		52.19	120.7		P
Mercury	75-125	0.1708		0.0174	U	0.17	100.5		CV
Nickel	75-125	59.8545		5.8785	B	52.19	103.4		P
Potassium	75-125	2019.7555		287.2868	B	2087.68	83.0		P
Selenium	75-125	193.5574		0.8768	U	208.77	92.7		P
Silver	75-125	4.3152		0.2923	U	5.22	82.7		P
Sodium	75-125	1807.6927		124.5649	B	2087.68	80.6		P
Thallium	75-125	198.2067		0.9812	U	208.77	94.9		P
Vanadium	75-125	58.6332		10.2806	B	52.19	92.6		P
Zinc	75-125	63.1823		12.8188		52.19	96.5		P
Boron									NR

Comments:

SPIKE SAMPLE RECOVERY

LAB SAMPLE NO.

237820MSD

Lab Name: STL_ENVIROTECH

Lab Code: 12543 Lab Job No.: F104 Batch No.: 10423

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 95.8

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		3521.5887		2897.3081		208.77	299.0		P
Antimony	75-125	37.8718		1.2109	U	52.19	72.6	N	P
Arsenic	75-125	194.9211		0.6681	U	208.77	93.4		P
Barium	75-125	204.0858		12.3355	B	208.77	91.8		P
Beryllium	75-125	5.3616		0.3910	B	5.22	95.2		P
Cadmium	75-125	4.8576		0.0835	U	5.22	93.1		P
Calcium		23726.8152		23994.7219		2087.68	-12.8		P
Chromium	75-125	24.7430		4.5553		20.88	96.7		P
Cobalt	75-125	52.7484		3.4190	B	52.19	94.5		P
Copper	75-125	31.7854		6.6455		26.10	96.3		P
Iron		8810.0242		7503.3240		104.38	1251.9		P
Lead	75-125	50.4482		2.9779		52.19	91.0		P
Magnesium	75-125	9025.0294		7438.9075		2087.68	76.0		P
Manganese	75-125	214.4192		164.9094		52.19	94.9		P
Mercury	75-125	0.1733		0.0174	U	0.17	101.9		CV
Nickel	75-125	54.7079		5.8785	B	52.19	93.6		P
Potassium	75-125	1955.7463		287.2868	B	2087.68	79.9		P
Selenium	75-125	191.1215		0.8768	U	208.77	91.5		P
Silver	75-125	4.4739		0.2923	U	5.22	85.7		P
Sodium	75-125	1810.9975		124.5649	B	2087.68	80.8		P
Thallium	75-125	197.1493		0.9812	U	208.77	94.4		P
Vanadium	75-125	60.8925		10.2806	B	52.19	97.0		P
Zinc	75-125	63.1409		12.8188		52.19	96.4		P
Boron									NR

Comments:

SPIKE SAMPLE RECOVERY

LAB SAMPLE NO.

BSW103000

Lab Name: STL_ENVIROTECH

Lab Code: 12543 Lab Job No.: F104 Batch No.: 10425

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

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	80-120	1905.8190		58.6200	U	2000.00	95.3		P
Antimony	80-120	481.7300		4.5400	U	500.00	96.3		P
Arsenic	80-120	1905.9360		3.5500	U	2000.00	95.3		P
Barium	80-120	1951.8420		1.5200	U	2000.00	97.6		P
Beryllium	80-120	49.9070		0.2000	U	50.00	99.8		P
mium	80-120	49.0750		0.3700	U	50.00	98.2		P
cium	80-120	19299.2420		38.4500	U	20000.00	96.5		P
Chromium	80-120	197.5220		1.1000	U	200.00	98.8		P
Cobalt	80-120	487.7180		0.9800	U	500.00	97.5		P
pper	80-120	244.2520		2.7000	U	250.00	97.7		P
on	80-120	962.1740		37.0900	U	1000.00	96.2		P
Lead	80-120	481.9670		2.0700	U	500.00	96.4		P
Magnesium	80-120	18823.3400		31.9300	U	20000.00	94.1		P
Manganese	80-120	489.0490		1.0200	U	500.00	97.8		P
Mercury	80-120	1.0500		0.1000	U	1.00	105.0		CV
Nickel	80-120	489.6230		1.3900	U	500.00	97.9		P
Potassium	80-120	15999.5200		254.1100	U	20000.00	80.0		P
Selenium	80-120	1875.3460		4.5300	U	2000.00	93.8		P
Silver	80-120	47.4550		1.1000	U	50.00	94.9		P
Sodium	80-120	18665.7150		351.8200	U	20000.00	93.3		P
Thallium	80-120	1956.3720		4.1400	U	2000.00	97.8		P
Vanadium	80-120	485.0660		1.2700	U	500.00	97.0		P
Zinc	80-120	485.7390		5.1800	U	500.00	97.1		P
Molybdenu									NR

Comments:

SPIKE SAMPLE RECOVERY

LAB SAMPLE NO.

235153MS

Name: STL_ENVIROTECH

Lab Code: 12543 Lab Job No.: F104 Batch No.: 10425

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

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	80-120	2079.0810		132.0490	B	2000.00	97.4		P
Antimony	80-120	495.0220		4.5400	U	500.00	99.0		P
Arsenic	80-120	1960.9360		3.5500	U	2000.00	98.0		P
Barium	80-120	2033.5830		59.3900	B	2000.00	98.7		P
Beryllium	80-120	51.4050		0.2000	U	50.00	102.8		P
Cadmium	80-120	50.6520		0.3700	U	50.00	101.3		P
Calcium	80-120	25022.2770		5049.3300		20000.00	99.9		P
Chromium	80-120	202.9890		1.1000	U	200.00	101.5		P
Cobalt	80-120	502.6900		1.5110	B	500.00	100.2		P
Copper	80-120	252.0790		2.7000	U	250.00	100.8		P
Iron	80-120	2075.8440		1088.8220		1000.00	98.7		P
Lead	80-120	501.0950		2.0700	U	500.00	100.2		P
Magnesium	80-120	21547.6760		2220.4930	B	20000.00	96.6		P
Manganese	80-120	551.8800		48.7180		500.00	100.6		P
Mercury	80-120	1.2500		0.2650		1.00	98.5		CV
Nickel	80-120	505.9250		3.1610	B	500.00	100.6		P
Potassium	80-120	19480.9220		2689.8700	B	20000.00	84.0		P
Selenium	80-120	1918.6700		4.5300	U	2000.00	95.9		P
Silver	80-120	48.1320		1.1000	U	50.00	96.3		P
Sodium	80-120	32852.9140		13891.3070		20000.00	94.8		P
Thallium	80-120	2002.0580		4.1400	U	2000.00	100.1		P
Vanadium	80-120	500.5500		1.2700	U	500.00	100.1		P
Zinc	80-120	593.1190		97.9120		500.00	99.0		P
Molybdenu									NR

Comments:

SPIKE SAMPLE RECOVERY

LAB SAMPLE NO.

235153MSD

Lab Name: STL_ENVIROTECH

Lab Code: 12543 Lab Job No.: F104 Batch No.: 10425

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

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	80-120	2093.1590		132.0490	B	2000.00	98.1		P
Antimony	80-120	492.6250		4.5400	U	500.00	98.5		P
Arsenic	80-120	1966.7100		3.5500	U	2000.00	98.3		P
Barium	80-120	2091.4360		59.3900	B	2000.00	101.6		P
Beryllium	80-120	51.3920		0.2000	U	50.00	102.8		P
dmium	80-120	50.0820		0.3700	U	50.00	100.2		P
lcium	80-120	24946.0510		5049.3300		20000.00	99.5		P
Chromium	80-120	203.8680		1.1000	U	200.00	101.9		P
Cobalt	80-120	504.2310		1.5110	B	500.00	100.5		P
Copper	80-120	256.6350		2.7000	U	250.00	102.7		P
on	80-120	2070.9410		1088.8220		1000.00	98.2		P
Lead	80-120	495.7150		2.0700	U	500.00	99.1		P
Magnesium	80-120	21613.7380		2220.4930	B	20000.00	97.0		P
Manganese	80-120	553.9620		48.7180		500.00	101.0		P
Mercury	80-120	1.2300		0.2650		1.00	96.5		CV
Nickel	80-120	505.7740		3.1610	B	500.00	100.5		P
Potassium	80-120	20042.6800		2689.8700	B	20000.00	86.8		P
Selenium	80-120	1917.9790		4.5300	U	2000.00	95.9		P
Silver	80-120	49.1290		1.1000	U	50.00	98.3		P
Sodium	80-120	33655.8440		13891.3070		20000.00	98.8		P
Thallium	80-120	2016.2250		4.1400	U	2000.00	100.8		P
Vanadium	80-120	501.6880		1.2700	U	500.00	100.3		P
Zinc	80-120	595.8890		97.9120		500.00	99.6		P
Molybdenu									NR

Comments:

DUPLICATES

LAB SAMPLE NO.

LCSS-244-D

Name: STL_ENVIROTECH

Lab Code: 12543 Lab Job No.: F104 Batch No.: 10423

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 100.0 % Solids for Duplicate: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		3979.2532		3924.9804		1.4		P
Antimony		31.3200		30.8422		1.5		P
Arsenic		84.0152		84.5780		0.7		P
Barium		158.8982		158.0172		0.6		P
Beryllium		56.5500		56.5734		0.0		P
Cadmium		207.6400		212.4382		2.3		P
Calcium	500.0	1794.9328		1796.3608		0.1		P
Chromium		71.6482		71.9948		0.5		P
Cobalt		76.2354		77.1108		1.1		P
Copper		95.3776		94.6544		0.8		P
Iron		8033.5390		8129.6062		1.2		P
Lead		62.4090		62.4582		0.1		P
Magnesium	500.0	1021.5100		1024.2646		0.3		P
Manganese		153.8154		154.7370		0.6		P
Mercury		0.6567		0.7250		9.9		CV
Nickel		109.6728		111.0112		1.2		P
Potassium	500.0	1055.2028		1052.3428		0.3		P
Selenium		68.5606		69.6336		1.6		P
Silver		74.4426		74.8566		0.6		P
Sodium		239.3832	B	242.5732	B	1.3		P
Thallium		76.1538		76.4924		0.4		P
Vanadium		114.3618		113.4002		0.8		P
Zinc		81.7838		82.8070		1.2		P
Boron								NR

DUPLICATES

LAB SAMPLE NO.

237820D

Name: STL_ENVIROTECH

Lab Code: 12543 Lab Job No.: F104 Batch No.: 10423

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 95.8 % Solids for Duplicate: 95.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		2897.3081		2891.6925		0.2		P
Antimony		1.2109	U	1.2109	U			P
Arsenic		0.6681	U	0.6681	U			P
Barium		12.3355	B	12.4415	B	0.9		P
Beryllium	0.2	0.3910	B	0.3678	B	6.1		P
Cadmium		0.0835	U	0.0835	U			P
Calcium		23994.7219		28434.0846		16.9		P
Chromium	1.0	4.5553		4.6257		1.5		P
Cobalt		3.4190	B	3.7879	B	10.2		P
Copper	2.6	6.6455		12.6466		62.2	*	P
Iron		7503.3240		7906.2973		5.2		P
Lead	0.5	2.9779		2.3779		22.4	*	P
Magnesium		7438.9075		7479.4167		0.5		P
Manganese		164.9094		163.3582		0.9		P
Mercury		0.0174	U	0.0001	U			CV
Nickel	4.2	5.8785	B	5.5415	B	5.9		P
Potassium		287.2868	B	296.9466	B	3.3		P
Selenium		0.8768	U	0.8768	U			P
Silver		0.2923	U	0.2923	U			P
Sodium		124.5649	B	118.5595	B	4.9		P
Thallium		0.9812	U	0.9812	U			P
Vanadium	5.2	10.2806	B	13.1612		24.6		P
Zinc	3.1	12.8188		15.0367		15.9		P
Boron								NR

DUPLICATES

LAB SAMPLE NO.

237820MS/MS

Name: STL_ENVIROTECH

Lab Code: 12543 Lab Job No.: F104 Batch No.: 10423

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 95.8 % Solids for Duplicate: 95.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		3198.6067		3521.5887		9.6		P
Antimony		37.5194		37.8718		0.9		P
Arsenic		195.0791		194.9211		0.1		P
Barium		200.8814		204.0858		1.6		P
Beryllium		5.2864		5.3616		1.4		P
Cadmium		4.8322		4.8576		0.5		P
Calcium		26266.9981		23726.8152		10.2		P
Chromium		24.4326		24.7430		1.3		P
Cobalt		51.8484		52.7484		1.7		P
Copper		30.7207		31.7854		3.4		P
Iron		8047.0789		8810.0242		9.1		P
Lead		51.3864		50.4482		1.8		P
Magnesium		9904.3033		9025.0294		9.3		P
Manganese		227.8942		214.4192		6.1		P
Mercury	0.0	0.1708		0.1733		1.5		CV
Nickel		59.8545		54.7079		9.0		P
Potassium	521.9	2019.7555		1955.7463		3.2		P
Selenium		193.5574		191.1215		1.3		P
Silver	1.0	4.3152		4.4739		3.6		P
Sodium	521.9	1807.6927		1810.9975		0.2		P
Thallium		198.2067		197.1493		0.5		P
Vanadium		58.6332		60.8925		3.8		P
Zinc		63.1823		63.1409		0.1		P
Boron								NR

DUPLICATES

LAB SAMPLE NO.

235153D

Name: STL_ENVIROTECH

Lab Code: 12543 Lab Job No.: F104 Batch No.: 10425

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		132.0490	B	136.9440	B	3.6		P
Antimony		4.5400	U	4.5400	U			P
Arsenic		3.5500	U	3.5500	U			P
Barium		59.3900	B	60.0720	B	1.1		P
Beryllium		0.2000	U	0.2000	U			P
Cadmium		0.3700	U	0.3700	U			P
Calcium	5000.0	5049.3300		5091.0910		0.8		P
Chromium		1.1000	U	1.1000	U			P
Cobalt		1.5110	B	1.3260	B	13.0		P
Copper		2.7000	U	3.1230	B	200.0		P
Iron		1088.8220		1114.5610		2.3		P
Lead		2.0700	U	2.0700	U			P
Magnesium		2220.4930	B	2232.8320	B	0.6		P
Manganese	15.0	48.7180		49.1830		0.9		P
Mercury	0.2	0.2650		0.2710		2.2		CV
Nickel		3.1610	B	3.8100	B	18.6		P
Potassium		2689.8700	B	2716.3170	B	1.0		P
Selenium		4.5300	U	4.5300	U			P
Silver		1.1000	U	1.1000	U			P
Sodium	5000.0	13891.3070		13918.8560		0.2		P
Thallium		4.1400	U	4.1400	U			P
Vanadium		1.2700	U	1.2700	U			P
Zinc	30.0	97.9120		102.1880		4.3		P
Molybdenu								NR

DUPLICATES

LAB SAMPLE NO.

235153MS/MS

Name: STL_ENVIROTECH

Lab Code: 12543 Lab Job No.: F104 Batch No.: 10425

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		2079.0810		2093.1590		0.7		P
Antimony		495.0220		492.6250		0.5		P
Arsenic		1960.9360		1966.7100		0.3		P
Barium		2033.5830		2091.4360		2.8		P
Beryllium		51.4050		51.3920		0.0		P
Cadmium		50.6520		50.0820		1.1		P
Calcium	5000.0	25022.2770		24946.0510		0.3		P
Chromium		202.9890		203.8680		0.4		P
Cobalt		502.6900		504.2310		0.3		P
Copper		252.0790		256.6350		1.8		P
Iron		2075.8440		2070.9410		0.2		P
Lead		501.0950		495.7150		1.1		P
Magnesium	5000.0	21547.6760		21613.7380		0.3		P
Manganese		551.8800		553.9620		0.4		P
Mercury		1.2500		1.2300		1.6		CV
Nickel		505.9250		505.7740		0.0		P
Potassium	5000.0	19480.9220		20042.6800		2.8		P
Selenium		1918.6700		1917.9790		0.0		P
Silver	10.0	48.1320		49.1290		2.1		P
Sodium		32852.9140		33655.8440		2.4		P
Thallium		2002.0580		2016.2250		0.7		P
Vanadium		500.5500		501.6880		0.2		P
Zinc		593.1190		595.8890		0.5		P
Molybdenu								NR

LABORATORY CONTROL SAMPLE

Lab Name: STL_ENVIROTECH

Lab Code: 12543 Lab Job No.: F104 Batch No.: 10423

Solid LCS Source: ERA 244

Aqueous LCS Source:

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum				4710.0	3979.3		2600.0	6820.0	84.5
Antimony				34.5	31.3		9.4	59.6	90.7
Arsenic				75.2	84.0		55.9	94.5	111.7
rium				146.0	158.9		112.0	179.0	108.8
cyllium				52.2	56.6		40.9	64.2	108.4
Cadmium				181.0	207.6		140.0	223.0	114.7
Calcium				1790.0	1794.9		1200.0	2380.0	100.3
Chromium				66.1	71.6		52.8	79.4	108.3
balt				72.6	76.2		57.7	87.5	105.0
Copper				86.1	95.4		70.6	102.0	110.8
Iron				9390.0	8033.5		4510.0	14300.0	85.6
Lead				56.8	62.4		39.5	74.0	109.9
Magnesium				1170.0	1021.5		886.0	1450.0	87.3
Manganese				157.0	153.8		123.0	190.0	98.0
Mercury				0.7	0.7		0.3	1.1	100.0
Nickel				101.0	109.7		79.5	124.0	108.6
Potassium				1420.0	1055.2		990.0	1850.0	74.3
Selenium				62.5	68.6		42.7	82.4	109.8
Silver				71.7	74.4		53.4	90.0	103.8
Sodium				333.0	239.4	B	182.0	485.0	71.9
Thallium				61.9	76.2		35.5	88.4	123.1
Vanadium				111.0	114.4		76.0	147.0	103.1
Zinc				79.6	81.8		61.6	97.7	102.8
Boron									

LABORATORY CONTROL SAMPLE

Lab Name: STL_ENVIROTECH

Lab Code: 12543 Lab Job No.: F104 Batch No.: 10425

Solid LCS Source:

Aqueous LCS Source: INORG VENT

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	1000.0	973.08	97.3						
Antimony	1000.0	976.98	97.7						
Arsenic	1000.0	972.40	97.2						
ium	1000.0	1002.34	100.2						
yllium	1000.0	989.64	99.0						
Cadmium	1000.0	1007.38	100.7						
Calcium	1000.0	988.38	98.8						
hromium	1000.0	1001.61	100.2						
balt	1000.0	996.33	99.6						
Copper	1000.0	993.83	99.4						
Iron	1000.0	1004.54	100.5						
Lead	1000.0	987.05	98.7						
Magnesium	1000.0	939.66	94.0						
Manganese	1000.0	998.71	99.9						
Mercury	5.0	5.26	105.2						
Nickel	1000.0	1007.62	100.8						
Potassium	10000.0	8737.60	87.4						
Selenium	1000.0	956.89	95.7						
Silver	1000.0	933.72	93.4						
Sodium	10000.0	9367.77	93.7						
Thallium	1000.0	996.76	99.7						
Vanadium	1000.0	986.86	98.7						
Zinc	1000.0	989.81	99.0						
Molybdenu									

ICP SERIAL DILUTION

LAB SAMPLE NO.

237820L

Lab Name: STL_ENVIROTECH

Lab Code: 12543 Lab Job No.: F104 Batch No.: 10423

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	13878.11		14876.07		7.2		P
Antimony	5.80	U	29.00	U			P
Arsenic	3.20	U	16.00	U			P
Barium	59.09	B	56.89	B	3.7		P
Beryllium	1.87	B	1.50	U	100.0		P
Cadmium	0.40	U	2.00	U			P
Calcium	114934.72		116725.92		1.6		P
Chromium	21.82		24.96	B	14.4		P
Cobalt	16.38	B	16.86	B	2.9		P
Copper	31.83		28.02	B	12.0		P
Iron	35940.92		36419.20		1.3		P
Lead	14.26		15.65	B	9.7		P
Magnesium	35632.37		35797.17		0.5		P
Manganese	789.92		797.44		1.0		P
Mercury							NR
Nickel	28.16	B	27.82	B	1.2		P
Potassium	1376.10	B	1577.00	U	100.0		P
Selenium	4.20	U	21.00	U			P
Silver	1.40	U	7.00	U			P
Sodium	596.67	B	1977.50	U	100.0		P
Thallium	4.70	U	23.50	U			P
Vanadium	49.24	B	53.26	B	8.2		P
Zinc	61.40		65.32	B	6.4		P

ICP SERIAL DILUTION

LAB SAMPLE NO.

235153L

Lab Name: STL_ENVIROTECH

Lab Code: 12543 Lab Job No.: F104 Batch No.: 10425

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	132.05	B	293.10	U	100.0		P
Antimony	4.54	U	22.70	U			P
Arsenic	3.55	U	17.75	U			P
Barium	59.39	B	58.41	B	1.7		P
Beryllium	0.20	U	1.00	U			P
Cadmium	0.37	U	1.85	U			P
Calcium	5049.33		4978.22	B	1.4		P
Chromium	1.10	U	5.50	U			P
Cobalt	1.51	B	4.90	U	100.0		P
Copper	2.70	U	13.50	U			P
Iron	1088.82		1043.42		4.2		P
Lead	2.07	U	10.35	U			P
Magnesium	2220.49	B	2195.40	B	1.1		P
Manganese	48.72		49.13	B	0.8		P
Mercury							NR
Nickel	3.16	B	6.95	U	100.0		P
Potassium	2689.87	B	2473.97	B	8.0		P
Selenium	4.53	U	22.65	U			P
Silver	1.10	U	5.50	U			P
Sodium	13891.31		14398.84	B	3.7		P
Thallium	4.14	U	20.70	U			P
Vanadium	1.27	U	6.35	U			P
Zinc	97.91		98.49	B	0.6		P

ANALYSIS RUN LOG

Lab Name: STL_ENVIROTECH_____ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:10423_

Instrument ID Number: TRACE3 TJA61_ Method: P_

Start Date: 10/31/00 End Date: 10/31/00

Lab Sample No.	D/F	Time	% R	Analytes																												
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	B					
D1-BLANK	1.00	0959		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X					
STD2	1.00	1005		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X					
STD3	1.00	1010		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X					
STD4	1.00	1015		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	X					
ZZZZZZ	1.00	1023																														
ICV/CCV	1.00	1028		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_					
B/CCB	1.00	1034		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_					
SA	1.00	1039		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_					
ICSAB	1.00	1044		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_					
ZZZZZZ	1.00	1050		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_					
ZZZZZZ	1.00	1055		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_					
ZZZZ	5.00	1100																														
SS103000	1.00	1108		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_					
BS103000	1.00	1113		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_					
LCSS-244	2.00	1119		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_					
SS-244-D	2.00	1124		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_					
CCV	1.00	1129		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_					
CCB	1.00	1134		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_					
237820D	2.00	1140		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_					
237820	2.00	1145			X	X		X	X		X		X		X			_	X		X	X		X		X	_					
237820L	2.00	1150		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_					
237820MS	2.00	1155		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_					
37820MSD	2.00	1201		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_					
ZZZZZZ	2.00	1206																														
237812	2.00	1211		_	X	X	_	X	X	_	X	_	X	_	X	_	_	_	X	_	X	X	_	X	_	X	_					
237813	2.00	1216		_	X	X	_	X	X	_	X	_	X	_	X	_	_	_	X	_	X	X	_	X	_	X	_					
237814	2.00	1224		_	X	X	_	X	X	_	X	_	X	_	X	_	_	_	X	_	X	X	_	X	_	X	_					
237815	2.00	1229		_	X	X	_	X	X	_	X	_	X	_	X	_	_	_	X	_	X	X	_	X	_	X	_					
CCV	1.00	1234		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_					
CCB	1.00	1240		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_					
237839	2.00	1245		_	X	X	_	X	X	_	X	_	X	_	X	_	_	_	X	_	X	X	_	X	_	X	_					
ZZZZZZ	1.00	1250		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_					
				_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_					

ANALYSIS RUN LOG

Name: STL_ENVIROTECH_____ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:10423_

Instrument ID Number: TRACE3 TJA61_ Method: P_

Start Date: 10/31/00 End Date: 10/31/00

Lab Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	B
ZZZZZZ	1.00	1255		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1301		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	-
CCB	1.00	1306		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	-
237966	2.00	1311		-	X	X	-	X	X	-	X	-	X	-	X	-	-	-	X	-	X	X	-	X	-	X	-
236991	2.00	1317		-	X	X	-	X	X	-	X	-	X	-	X	-	-	-	X	-	X	X	-	X	-	X	-
236995	2.00	1322		-	X	X	-	X	X	-	X	-	X	-	X	-	-	-	X	-	X	X	-	X	-	X	-
997	4.00	1343		-	-	-	-	X	-	-	X	-	-	-	-	-	-	-	X	-	-	X	-	-	-	X	-
410	2.00	1348		-	X	X	-	X	X	-	X	-	X	-	X	-	-	-	X	-	X	X	-	X	-	X	-
237413	2.00	1353		-	X	X	-	X	X	-	X	-	X	-	X	-	-	-	X	-	X	X	-	X	-	X	-
237549	1.00	1359		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	-
237550	2.00	1405		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	-
7551	2.00	1410		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	-
7552	2.00	1415		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	-
CCV	1.00	1421		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	-
CCB	1.00	1426		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	-
237327	2.00	1431		-	X	X	-	X	X	-	X	-	X	-	X	-	-	-	X	-	X	X	-	X	-	X	-
237328	2.00	1437		-	X	X	-	X	X	-	X	-	X	-	X	-	-	-	X	-	X	X	-	X	-	X	-
237332	2.00	1442		-	X	X	-	X	X	-	X	-	X	-	X	-	-	-	X	-	X	X	-	X	-	X	-
237333	2.00	1447		-	X	X	-	X	X	-	X	-	X	-	X	-	-	-	X	-	X	X	-	X	-	X	-
236997	10.00	1452		-	X	X	-	-	X	-	-	-	X	-	X	-	-	-	-	-	X	-	-	X	-	-	-
ICSA	1.00	1458		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	-
ICSAB	1.00	1503		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	-
CCV	1.00	1508		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	-
CCB	1.00	1513		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ANALYSIS RUN LOG

Lab Name: STL_ENVIROTECH_____ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:10423_

Instrument ID Number: LEEMANPS200-_ Method: CV

Start Date: 10/30/00 End Date: 10/30/00

Lab Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	B
STD1	1.00	1207																X								
STD2	1.00	1209																X								
STD3	1.00	1211																X								
STD4	1.00	1214																X								
STD5	1.00	1217																X								
STD6	1.00	1220																X								
V/ACCV	1.00	1223																X								
3/CCB_	1.00	1226																X								
ZZZZZZ	1.00	1229																								
ZZZZZZ	1.00	1232																								
ZZZZZZ	1.00	1235																								
V	1.00	1238																X								
CB	1.00	1240																X								
BS103000	1.00	1243																X								
SS103000	1.00	1246																X								
LCSS-244	1.00	1249																X								
SS-244-D	1.00	1252																X								
237820	1.00	1255																X								
237820D	1.00	1300																X								
237820MS	1.00	1303																X								
37820MSD	1.00	1305																X								
237812	1.00	1308																X								
237813	1.00	1311																X								
CCV	1.00	1313																X								
CCB	1.00	1316																X								
237814	1.00	1319																X								
237815	1.00	1322																X								
237839	1.00	1325																X								
237966	1.00	1328																X								
236991	1.00	1330																X								
236995	1.00	1334																X								
236997	1.00	1336																X								

ANALYSIS RUN LOG

Lab Name: STL_ENVIROTECH_____ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:10423_

Instrument ID Number: LEEMANPS200-_ Method: CV

Start Date: 10/30/00 End Date: 10/30/00

Lab Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	B
237410	1.00	1340																X								
237413	1.00	1342																X								
237549	1.00	1346																X								
CCV	1.00	1349																X								
CCB	1.00	1352																X								
237550	1.00	1355																X								
7551	1.00	1358																X								
552	1.00	1400																X								
237327	1.00	1403																X								
237328	1.00	1406																X								
237332	1.00	1409																X								
7333	1.00	1411																X								
CCV	1.00	1413																X								
CCB	1.00	1416																X								

ANALYSIS RUN LOG

Name: STL_ENVIROTECH_____ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:10425_

Instrument ID Number: TRACE1 TJA61_ Method: P_

Start Date: 10/30/00 End Date: 10/31/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
D1-BLANK	1.00	2154		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	X
STD2	1.00	2159		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
STD3	1.00	2204		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
STD4	1.00	2210		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	X
ZZZZZZ	1.00	2215																									
ICV/CCV	1.00	2220		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
[illegible]B/CCB	1.00	2225		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
[illegible]A	1.00	2231		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ICSAB	1.00	2236		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ZZZZZZ	1.00	2241																									_
ZZZZZZ	1.00	2247		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
[illegible]103000	1.00	2252		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
[illegible]103000	1.00	2257		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
LCSW	1.00	2303		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X		X	X	X	X	X	X	_
235153D	1.00	2308		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X		_
235153	1.00	2313		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
235153L	1.00	2319		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
CCV	1.00	2324		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
CCB	1.00	2329		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
235153MS	1.00	2334		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
35153MSD	1.00	2340		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ZZZZZZ	1.00	2345																									_
237821	1.00	2350		_	X	X	_	X	X	_	X	_	X	_	X	_	_	_	X	_	X	X	_	X	_	X	_
237822	1.00	2356		_	X	X	_	X	X	_	X	_	X	_	X	_	_	_	X	_	X	X	_	X	_	X	_
237824	1.00	0001		_	X	X	_	X	X	_	X	_	X	_	X	_	_	_	X	_	X	X	_	X	_	X	_
237831	1.00	0006		_	X	X	_	X	X	_	X	_	X	_	X	_	_	_	X	_	X	X	_	X	_	X	_
237936	1.00	0012		_	X	X	X	X	X	_	X	_	X	X	X	_	X	_	X	_	X	X	_	X	_	X	_
237937	1.00	0017		_	X	X	X	X	X	_	X	_	X	X	X	_	X	_	X	_	X	X	_	X	_	X	_
237939	1.00	0022		_	X	X	X	X	X	_	X	_	X	X	X	_	X	_	X	_	X	X	_	X	_	X	_
CCV	1.00	0028		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
CCB	1.00	0033		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
237940	1.00	0038		_	X	X	X	X	X	_	X	_	X	X	X	_	X	_	X	_	X	X	_	X	_	X	_
				_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

ANALYSIS RUN LOG

Name: STL_ENVIROTECH_____ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:10425_

Instrument ID Number: TRACE1 TJA61_ Method: P_

Start Date: 10/30/00 End Date: 10/31/00

EPA Sample No.	D/F	Time	% R	Analytes																												
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO					
237941	1.00	0043		-	X	X	X	X	X	-	X	-	X	X	X	-	X	-	X	-	X	X	-	X	-	X	-					
237942	1.00	0049		-	X	X	X	X	X	-	X	-	X	X	X	-	X	-	X	-	X	X	-	X	-	X	-					
237967	1.00	0054		-	X	X		X	X	-	X	-	X		X	-		-	X	-	X	X	-	X	-	X	-					
238151	1.00	0059		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	-					
238152	1.00	0105		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	-					
238154	1.00	0110		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	-					
7553	1.00	0115		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	-					
788	1.00	0121																-									-					
236884	1.00	0126		-	X	-	-	-	X	-	X	-	X	X	X	-	X	-	-	-	-	X	-	-	-	X	-					
CCV	1.00	0131		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	-					
CCB	1.00	0136		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	-					
7580	1.00	0142																-		X							-					
7581	1.00	0147		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-					
ICSA	1.00	0152		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	-					
ICSAB	1.00	0158		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	-					
CCV	1.00	0203		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	-					
CCB	1.00	0208		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	-					
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ANALYSIS RUN LOG

Lab Name: STL_ENVIROTECH_____ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:10425_

Instrument ID Number: TRACE1 TJA61_ Method: P_

Start Date: 10/31/00 End Date: 10/31/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
D1-BLANK	1.00	1146		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X
STD2	1.00	1151		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
STD3	1.00	1156		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
STD4	1.00	1202		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	X
ZZZZZZ	1.00	1207		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ICV/CCV	1.00	1212		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	X	_
B/CCB	1.00	1218		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	X	_
SA	1.00	1223		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	X	_
ICSAB	1.00	1228		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	X	_
ZZZZZZ	1.00	1233		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	1239		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZ	10.00	1244		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	1249		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
238153D	1.00	1254		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_
LCSW	1.00	1300		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_
ZZZZZZ	1.00	1305		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
CCV	1.00	1310		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	X	_
CCB	1.00	1315		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	X	_
ZZZZZZ	1.00	1325		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	1330		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	5.00	1336		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	5.00	1341		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	5.00	1347		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	5.00	1352		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	5.00	1357		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	5.00	1402		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	5.00	1408		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	5.00	1413		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
CCV	1.00	1418		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	X	_
CCB	1.00	1423		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	X	_
ZZZZZZ	1.00	1429		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	5.00	1434		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
				_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

ANALYSIS RUN LOG

Lab Name: STL_ENVIROTECH_____ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:10425_

Instrument ID Number: TRACE1 TJA61_ Method: P_

Start Date: 10/31/00 End Date: 10/31/00

EPA Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
ICSA	1.00	1439																	X						X	
ICSAB	1.00	1444																	X						X	
CCV	1.00	1450																	X						X	
CCB	1.00	1455																	X						X	

ANALYSIS RUN LOG

Lab Name: STL_ENVIROTECH_____ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:10425_

Instrument ID Number: LEEMAN PS200_ Method: CV

Start Date: 10/30/00 End Date: 10/30/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
STD1	1.00	1140																X									
STD2	1.00	1143																X									
STD3	1.00	1146																X									
STD4	1.00	1148																X									
STD5	1.00	1151																X									
STD6	1.00	1154																X									
V/ACCV	1.00	1158																X									
B/CCB_	1.00	1200																X									
BW103000	1.00	1203																X									
SW103000	1.00	1206																X									
CSW	1.00	1208																X									
5153	1.00	1211																X									
235153D_	1.00	1213																X									
235153MS	1.00	1216																X									
35153MSD	1.00	1218																X									
237821	1.00	1221																X									
237822	1.00	1224																X									
237824	1.00	1226																X									
CCV	1.00	1229																X									
CCB	1.00	1231																X									
237831	1.00	1234																X									
237936	1.00	1236																X									
237937	1.00	1239																X									
237939	1.00	1242																X									
237940	1.00	1244																X									
237941	1.00	1247																X									
237942	1.00	1249																X									
237967	1.00	1252																X									
238151	1.00	1254																X									
238152	1.00	1257																X									
CCV	1.00	1259																X									
CCB	1.00	1302																X									

ANALYSIS RUN LOG

Lab Name: STL_ENVIROTECH_____ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:10425_

Instrument ID Number: LEEMAN PS200_ Method: CV

Start Date: 10/30/00 End Date: 10/30/00

EPA Sample No.	D/F	Time	% R	Analytes																												
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
238154	1.00	1305																X									
237553	1.00	1307																X									
ZZZZZZ	1.00	1310																									
ZZZZZZ	1.00	1312																									
ZZZZZZ	1.00	1315																									
ZZZZZZ	1.00	1317																									
ZZZZ	1.00	1320																									
ZZZZ	1.00	1323																									
CCV	1.00	1325																X									
CCB	1.00	1328																X									
ZZZZZZ	1.00	1331																									
ZZZZ	1.00	1333																									
ZZZZZZ	1.00	1336																									
ZZZZZZ	1.00	1338																									
CCV	1.00	1341																X									
CCB	1.00	1344																X									

APPENDIX 3

NYSDEC Cleanup Guidance Levels

New York State Department of Environmental Conservation

TECHNICAL AND ADMINISTRATIVE GUIDANCE MEMORANDUM #4046

DETERMINATION OF SOIL CLEANUP OBJECTIVES AND CLEANUP LEVELS

TO: Regional Haz. Waste Remediation Engineers, Bureau Directors, and Section Chiefs

FROM: Michael J. O'Toole, Jr., Director, Division of Hazardous Waste Remediation

SUBJECT: DIVISION TECHNICAL AND ADMINISTRATIVE GUIDANCE MEMORANDUM: DETERMINATION OF SOIL CLEANUP OBJECTIVES AND CLEANUP LEVELS

DATE: JAN 24, 1994

Michael J. O'Toole, Jr. (signed)

Appendix A - Recommended Soil Cleanup Objectives | Appendix B - Total Organic Carbon (TOC)
Table 1 - Volatile Organic Contaminants
Table 2 - Semi-Volatile Organic Contaminants
Table 3 - Organic Pesticides / Herbicides and PCBs
Table 4 - Heavy Metals

The cleanup goal of the Department is to restore inactive hazardous waste sites to predisposal conditions, to the extent feasible and authorized by law. However, it is recognized that restoration to predisposal conditions will not always be feasible.

1. INTRODUCTION:

This TAGM provides a basis and procedure to determine soil cleanup levels at individual Federal Superfund, State Superfund, 1986 EQBA Title 3 and Responsible Party (RP) sites, when the Director of the DHWR determines that cleanup of a site to predisposal conditions is not possible or feasible.

The process starts with development of soil cleanup objectives by the Technology Section for the contaminants identified by the Project Managers. The Technology Section uses the procedure described in this TAGM to develop soil cleanup objectives. Attainment ofthese generic soil cleanup objectives will, at a minimum, eliminate all significant threats to human health and/or the environment posed by the inactive hazardous waste site. Project Managers should use these cleanup objectives in selecting alternatives in the Feasibility Study (FS). Based on the proposed selected remedial technology (outcome of FS), final site specific soil cleanup levels are established in the Record of Decision (ROD) for these sites.

It should be noted that even after soil cleanup levels are established in the ROD, these levels may prove to be unattainable when remedial construction begins. In that event,

alternative remedial actions or institutional controls may be necessary to protect the environment.

2. BASIS FOR SOIL CLEANUP OBJECTIVES:

The following alternative bases are used to determine soil cleanup objectives:

a. Human health based levels that correspond to excess lifetime cancer risks of one in a million for Class A[1] and B[2] carcinogens, or one in 100,000 for Class C[3] carcinogens. These levels are contained in USEPA's Health Effects Assessment Summary Tables (HEASTs) which are compiled and updated quarterly by the NYSDEC's Division of Hazardous Substances Regulation;

b. Human health based levels for systemic toxicants, calculated from Reference Doses (RfDs). RfDs are an estimate of the daily exposure an individual (including sensitive individuals) can experience without appreciable risk of health effects during a lifetime. An average scenario of exposure in which children ages one to six (who exhibit the greatest tendency to ingest soil) is assumed. An intake rate of 0.2 gram/day for a five-year exposure period for a 16-kg child is assumed. These levels are contained in USEPA's Health Effects Assessment Summary Tables (HEASTs) which are compiled and updated quarterly by the NYSDEC's Division of Hazardous Substances Regulation;

c. Environmental concentrations which are protective of groundwater/drinking water quality; based on promulgated or proposed New York State Standards;

d. Background values for contaminants; and

e. Detection limits.

A recommendation on the appropriate cleanup objective is based on the criterion that produces the most stringent cleanup level using criteria a, b, and c for organic chemicals, and criteria a, b, and d for heavy metals. If criteria a and/or b are below criterion d for a contaminant, its background value should be used as the cleanup objective. However, cleanup objectives developed using this approach must be, at a minimum, above the method detection limit (MDL) and it is preferable to have the soil cleanup objectives above the Contract Required Quantitation Limit (CRQL) as defined by NYSDEC. If the cleanup objective of a compound is "non-detectable", it should mean that it is not detected at the MDL. Efforts should be made to obtain the best MDL detection possible when selecting a laboratory and analytical protocol.

3. DETERMINATION OF SOIL CLEANUP GOALS FOR ORGANICS IN SOIL FOR PROTECTION OF WATER QUALITY

The water/soil partitioning theory is used to determine soil cleanup objectives which would be protective of groundwater/drinking water quality for its best use. This theory is conservative in nature and assumes that contaminated soil and groundwater are in direct contact. This theory is based upon the ability of organic matter in soil to adsorb organic chemicals. The approach predicts the maximum amount of contamination that may remain in soil so that leachate from the contaminated soil will not violate

groundwater and/or drinking water standards.

This approach is not used for heavy metals, which do not partition appreciably into soil organic matter. For heavy metals, eastern USA or New York State soil background values may be used as soil cleanup objectives. A list of values that have been tabulated is attached. Soil background data near the site, if available, is preferable and should be used as the cleanup objective for such metals. Background samples should be free from the influences of this site and any other source of contaminants. Ideal background samples may be obtained from uncontaminated upgradient and upwind locations.

Protection of water quality from contaminated soil is a two-part problem. The first is predicting the amount of contamination that will leave the contaminated media as leachate. The second part of the problem is to determine how much of that contamination will actually contribute to a violation of groundwater standards upon reaching and dispersing into groundwater. Some of the contamination which initially leaches out of soil will be absorbed by other soil before it reaches groundwater. Some portion will be reduced through natural attenuation or other mechanism.

PART A: PARTITION THEORY MODEL

There are many test and theoretical models which are used to predict leachate quality given a known value of soil contamination. The Water-Soil Equilibrium Partition Theory is used as a basis to determine soil standard or contamination limit for protection of water quality by most of the models currently in use. It is based on the ability of organic carbon in soil to adsorb contamination. Using a water quality value which may not be exceeded in leachate and the partition coefficient method, the equilibrium concentration (Cs) will be expressed in the same units as the water standards. The following expression is used:

Allowable Soil Concentration $Cs = f \times Koc \times Cw$ . . . . (1)

Where: f = fraction of organic carbon of the natural soil medium.

Koc = partition coefficient between water and soil media. Koc can be estimated by the following equation:

$\log Koc = 3.64 - 0.55 \log S$

S = water solubility in ppm
Cw = appropriate water quality value from TOGS 1.1.1

Most Koc and S values are listed in the Exhibit A-1 of the USEPA Superfund Public Health Evaluation Manual (EPA/540/1-86/060). The Koc values listed in this manual should be used for the purpose. If the Koc value for a contaminant is not listed, it should be estimated using the above mentioned equation.

PART B: PROCEDURE FOR DETERMINATION OF SOIL CLEANUP OBJECTIVES

When the contaminated soil is in the unsaturated zone above the water table, many mechanisms are at work that prevent all of the contamination that would leave the contaminated soil from impacting groundwater. These mechanisms occur during transport and may work simultaneously. They include the following: (1) volatility, (2) sorption and desorption, (3) leaching and diffusion, (4) transformation and degradation, and (5) change in concentration of contaminants after reaching and/or mixing with the groundwater surface. To account for these mechanisms, a correction factor of 100 is used to establish soil cleanup objectives. This value of 100 for the correction is consistent with the logic used by EPA in its Dilution Attenuation Factor (DAF) approach for EP Toxicity and TCLP. (Federal Register/Vol. 55, No. 61, March 29, 1990/Pages 11826-27). Soil cleanup objectives are calculated by multiplying the allowable soil concentration by the correction factor. If the contaminated soil is very close (<3' - 5') to the groundwater table or in the groundwater, extreme caution should be exercised when using the correction factor of 100 (one hundred) as this may not give conservative cleanup objectives. For such situations the Technology Section should be consulted for site-specific cleanup objectives.

Soil cleanup objectives are limited to the following maximum values. These values are consistent with the approach promulgated by the States of Washington and Michigan.

1. Total VOCs $\leq$ 10 ppm.
2. Total Semi VOCs $\leq$ 500 ppm.
3. Individual Semi VOCs $\leq$ 50 ppm.
4. Total Pesticides $\leq$ 10 ppm.

One concern regarding the semi-volatile compounds is that some of these compounds are so insoluble that their Cs values are fairly large. Experience (Draft TOGS on Petroleum Contaminated Soil Guidance) has shown that soil containing some of these insoluble substances at high concentrations can exhibit a distinct odor even though the substance will not leach from the soil. Hence any time a soil exhibits a discernible odor nuisance, it shall not be considered clean even if it has met the numerical criteria.

4. DETERMINATION OF FINAL CLEANUP LEVELS:

Recommended soil cleanup objectives should be utilized in the development of final cleanup levels through the Feasibility Study (FS) process. During the FS, various alternative remedial actions developed during the Remedial Investigation (RI) are initially screened and narrowed down to the list of potential alternative remedial actions that will be evaluated in detail. These alternative remedial actions are evaluated using the criteria discussed in TAGM 4030, Selection of Remedial Actions at Inactive Hazardous Waste Sites, revised May 15, 1990, and the preferred remedial action will be selected. After the detailed evaluation of the preferred remedial action, the final cleanup levels which can be actually achieved using the preferred remedial action must be established. Remedy selection, which will include final cleanup levels, is the subject of TAGM 4030.

Recommended soil cleanup objectives that have been calculated by the Technology Section are presented in Appendix A. These objectives are based on a soil organic carbon content of 1% (0.01) and should be adjusted for the actual organic carbon content if it is known. For determining soil organic carbon content, use attached USEPA method (Appendix B). Please contact the Technology Section, Bureau of Program Management for soil cleanup objectives not included in Appendix A.

TAGM 4046 Footnotes:

1. Class A are proved human carcinogens
2. Class B are probable human carcinogens
3. Class C are possible human carcinogens

APPENDIX A

TABLE 1
Recommended soil cleanup objectives (mg/kg or ppm)
Volatile Organic Contaminants

Contaminant	Partition Coefficient, Koc	Groundwater Standards/ Criteria, Cw (ug/l or ppb)	a Allowable soil conc., Cs (ppm)	b ** Soil cleanup objectives to protect GW quality (ppm)	USEPA Health Based (ppm)		CRQL (ppb)	*** Rec. Soil Cleanup Objective (ppm)
					Carcin-ogens	Systemic Toxicants		
Acetone	2.2	50	0.0011	0.11	N/A	8,000	10	0.2
Benzene	83	0.7	0.0006	0.06	24	N/A	5	0.06
Benzoic Acid	54 *	50	0.027	2.7	N/A	300,000	5	2.7
2-Butanone	4.5 *	50	0.003	0.3	N/A	4,000	10	0.3
Carbon Disulfide	54 *	50	0.027	2.7	N/A	8,000	5	2.7
Carbon Tetrachloride	110 *	5	0.006	0.6	5.4	60	5	0.6
Chlorobenzene	330	5	0.017	1.7	N/A	2,000	5	1.7
Chloroethane	37 *	50	0.019	1.9	N/A	N/A	10	1.9
Chloroform	31	7	0.003	0.30	114	800	5	0.3
Dibromochloromethane	N/A	50	N/A	N/A	N/A	N/A	5	N/A
1,2-Dichlorobenzene	1,700	4.7	0.079	7.9	N/A	N/A	330	7.9
1,3-Dichlorobenzene	310 *	5	0.0155	1.55	N/A	N/A	330	1.6
1,4-Dichlorobenzene	1,700	5	0.085	8.5	N/A	N/A	330	8.5
1,1-Dichloroethane	30	5	0.002	0.2	N/A	N/A	5	0.2
1,2-Dichloroethane	14	5	0.001	0.1	7.7	N/A	5	0.1
1,1-Dichloroethene	65	5	0.004	0.4	12	700	5	0.4
1,2-Dichloroethene (trans)	59	5	0.003	0.3	N/A	2,000	5	0.3
1-3 dichloropropane	51	5	0.003	0.3	N/A	N/A	5	0.3
Ethylbenzene	1,100	5	0.055	5.5	N/A	8,000	5	5.5
113 Freon (1,1,2 Trichloro-1,2,2 Trifluoroethane)	1,230 *	5	0.060	6.0	N/A	200,000	5	6.0
Methylene chloride	21	5	0.001	0.1	93	5,000	5	0.1
4-Methyl-2-Pentanone	19 *	50	0.01	1.0	N/A	N/A	10	1.0

TABLE 1 (Continued)

Contaminant	Partition Coefficient, Koc	Groundwater Standards/ Criteria, Cw (ug/l or ppb)	a Allowable soil conc., Cs (ppm)	b ** Soil cleanup objectives to protect GW quality (ppm)	USEPA Health Based (ppm) Carcin-ogens	Systemic Toxicants	CRQL (ppb)	*** Rec. Soil Cleanup Objective (ppm)
Tetrachloroethene	277	5	0.014	1.4	14	800	5	1.4
1,1,1-Trichloroethane	152	5	0.0076	0.76	N/A	7,000	5	0.8
1,1,2,2-Tetrachloroethane	118	5	0.006	0.6	35	N/A	5	0.6
1,2,3-trichloropropane	68	5	0.0034	0.34	N/A	80	5	0.4
1,2,4-trichlorobenzene	670 *	5	0.034	3.4	N/A	N/A	330	3.4
Toluene	300	5	0.015	1.5	N/A	20,000	5	1.5
Trichloroethene	126	5	0.007	0.70	64	N/A	5	0.7
Vinyl chloride	57	2	0.0012	0.12	N/A	N/A	10	0.2
Xylenes	240	5	0.012	1.2	N/A	200,000	--	1.2

a. Allowable Soil Concentration Cs = f x Cw x Koc
b. Soil cleanup objective = Cs x Correction Factor (CF)
N/A is not available

* Partition coefficient is calculated by using the following equation:
log Koc = -0.55 log S + 3.64, where S is solubility in water in ppm.
All other Koc values are experimental values.

** Correction Factor (CF) of 100 is used as per TAGM #4046

*** As per TAGM #4046, Total VOCs < 10 ppm.

Note: Soil cleanup objectives are developed for soil organic carbon content (f) of 1%, and should be adjusted for the actual soil organic carbon content if it is known.

APPENDIX A

TABLE 2
Recommended soil cleanup objectives (mg/kg or ppm)
Semi-Volatile Organic Contaminants

Contaminant	Partition Coefficient, Koc	Groundwater Standards/ Criteria, Cw (ug/l or ppb)	a Allowable soil conc., Cs (ppm)	b ** Soil cleanup objectives to protect GW quality (ppm)	USEPA Health Based (ppm)		CRQL (ppb)	*** Rec. Soil Cleanup Objective (ppm)
					Carcin-ogens	Systemic Toxicants		
Acenaphthene	4,600	20	0.9	90.0	N/A	5,000	330	50.0 ***
Acenaphthylene	2,056 *	20	0.41	41.0	N/A	N/A	330	41.0
Aniline	13.8	5	0.001	0.1	123	N/A	330	0.1
Anthracene	14,000	50	7.00	700.0	N/A	20,000	330	50.0 ***
Benzo(a)anthracene	1,380,000	0.002	0.03	3.0	0.224	N/A	330	0.224 or MDL
Benzo (a) pyrene	5,500,000	0.002 (ND)	0.110	11.0	0.0609	N/A	330	0.061 or MDL
Benzo (b) fluoranthene	550,000	0.002	0.011	1.1	N/A	N/A	330	1.1
Benzo (g,h,i) perylene	1,600,000	5	8.0	800	N/A	N/A	330	50.0 ***
Benzo (k) fluoranthene	550,000	0.002	0.011	1.1	N/A	N/A	330	1.1
bis(2-ethylhexyl)phthalate	8,706 *	50	4.35	435.0	50	2,000	330	50.0 ***
Butylbenzylphthlate	2,430	50	1.215	122.0	N/A	20,000	330	50.0 ***
Chrysene	200,000	0.002	0.004	0.4	N/A	N/A	330	0.4
4- Chloroaniline	43 ****	5	0.0022	0.22	200	300	330	0.220 or MDL
4-Chloro-3-methylphenol	47	5	0.0024	0.24	N/A	N/A	330	0.240 or MDL
2-Chlorophenol	15 *	50	0.008	0.8	N/A	400	330	0.8

TABLE 2 (Continued)

Contaminant	Partition Coefficient, Koc	Groundwater Standards/ Criteria, Cw (ug/l or ppb)	a Allowable soil conc., Cs (ppm)	b ** Soil cleanup objectives to protect GW quality (ppm)	USEPA Health Based (ppm)		CRQL (ppb)	*** Rec. Soil Cleanup Objective (ppm)
					Carcin-ogens	Systemic Toxicants		
Dibenzofuran	1,230 *	5	0.062	6.2	N/A	N/A	330	6.2
Dibenzo(a,h)anthracene	33,000,000	50	1,650	165,000	0.0143	N/A	330	0.014 or MDL
3,3'-Dichlorobenzidine	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4-Dichlorophenol	380	1	0.004	0.4	N/A	200	330	0.4
2,4-Dinitrophenol	38	5	0.002	0.2	N/A	200	1,600	0.200 or MDL
2,6 Dinitrotoluene	198*	5	0.01	1.0	1.03	N/A	330	1.0
Diethylphthlate	142	50	0.071	7.1	N/A	60,000	330	7.1
Dimethylphthlate	40	50	0.020	2.0	N/A	80,000	330	2.0
Di-n-butyl phthalate	162*	50	0.081	8.1	N/A	8,000	330	8.1
Di-n-octyl phthlate	2,346 *	50	1.2	120.0	N/A	2,000	330	50.0 ***
Fluoranthene	38,000	50	19	1900.0	N/A	3,000	330	50.0 ***
Fluorene	7,300	50	3.5	350.0	N/A	3,000	330	50.0 ***
Hexachlorobenzene	3,900	0.35	0.014	1.4	0.41	60	330	0.41
Indeno (1,2,3-cd)pyrene	1,600,000	0.002	0.032	3.2	N/A	N/A	330	3.2
Isophorone	88.31 *	50	0.044	4.40	1,707	20,000	330	4.40
2-methylnaphthalene	727 *	50	0.364	36.4	N/A	N/A	330	36.4
2-Methylphenol	15	5	0.001	0.1	N/A	N/A	330	0.100 or MDL
4-Methylphenol	17	50	0.009	0.9	N/A	4,000	330	0.9
Naphthalene	1,300	10	0.130	13.0	N/A	300	330	13.0
Nitrobenzene	36	5	0.002	0.2	N/A	40	330	0.200 or MDL

TABLE 2 (Continued)

Contaminant	Partition Coefficient, Koc	Groundwater Standards/ Criteria, Cw (ug/l or ppb)	a Allowable soil conc., Cs (ppm)	b ** Soil cleanup objectives to protect GW quality (ppm)	USEPA Health Based (ppm) Carcin-ogens	Systemic Toxicants	CRQL (ppb)	*** Rec. Soil Cleanup Objective (ppm)
2-Nitroaniline	86	5	0.0043	0.43	N/A	N/A	1,600	0.430 or MDL
2-Nitrophenol	65	5	0.0033	0.33	N/A	N/A	330	0.330 or MDL
4-Nitrophenol	21	5	0.001	0.1	N/A	N/A	1,600	0.100 or MDL
3-Nitroaniline	93	5	0.005	0.5	N/A	N/A	1,600	0.500 or MDL
Pentachlorophenol	1,022	1	0.01	1.0	N/A	2,000	1,600	1.0 or MDL
Phenanthrene	4,365 *	50	2.20	220.0	N/A	N/A	330	50.0 ***
Phenol	27	1	0.0003	0.03	N/A	50,000	330	0.03 or MDL
Pyrene	13,295 *	50	6.65	665.0	N/A	2,000	330	50.0 ***
2,4,5-Trichlorophenol	89 *	1	0.001	0.1	N/A	8,000	330	0.1

a. Allowable Soil Concentration Cs = f x Cw x Koc
b. Soil cleanup objective = Cs x Correction Factor (CF)
N/A is not available
MDL is Method Detection Limit

* Partition coefficient is calculated by using the following equation:
log Koc = -0.55 log S + 3.64, where S is solubility in water in ppm.
Other Koc values are experimental values.

** Correction Factor (CF) of 100 is used as per TAGM #4046

*** As per TAGM #4046, Total VOCs < 10 ppm., Total Semi- VOCs < 500ppm. and Individual Semi-VOCs < 50 ppm.

**** Koc is derived from the correlation Koc = 0.63 Kow (Determining Soil Response Action Levels..... EPA/540/2-89/057). Kow is obtained from the USEPA computer database 'MAIN'.

Note: Soil cleanup objectives are developed for soil organic carbon content (f) of 1%, and should be adjusted for the actual soil organic carbon content if it is known.

APPENDIX A

TABLE 3
Recommended soil cleanup objectives (mg/kg or ppm)
Organic Pesticides / Herbicides and PCBs

Contaminant	Partition Coefficient, Koc	Groundwater Standards/ Criteria, Cw (ug/l or ppb)	a Allowable soil conc., Cs (ppm)	b ** Soil cleanup objectives to protect GW quality (ppm)	USEPA Health Based (ppm)		CRQL (ppb)	*** Rec. Soil Cleanup Objective (ppm)
					Carcin-ogens	Systemic Toxicants		
Aldrin	96,000	ND (<0.01)	0.005	0.5	0.041	2	8	0.041
alpha- BHC	3,800	ND (<0.05)	0.002	0.2	0.111	N/A	8	0.11
beta - BHC	3,800	ND (<0.05)	0.002	0.2	3.89	N/A	8	0.2
delta - BHC	6,600	ND (<0.05)	0.003	0.3	N/A	N/A	8	0.3
Chlordane	21,305 *	0.1	0.02	2.0	0.54	50	80	0.54
2,4-D	104 *	4.4	0.005	0.5	N/A	800	800	0.5
4,4'- DDD	770,000 *	ND (<0.01)	0.077	7.7	2.9	N/A	16	2.9
4,4'-DDE	440,000 *	ND (<0.01)	0.0440	4.4	2.1	N/A	16	2.1
4,4'-DDT	243,000 *	ND (<0.01)	0.025	2.5	2.1	40	16	2.1
Dibenzo-P-dioxins (PCDD) 2,3,7,8 TCDD	1709800	0.000035	0.0006	0.06	N/A	N/A	N/A	N/A
Dieldrin	10,700 *	ND (< 0.01)	0.0010	0.1	0.044	4	16	0.044
Endosulfan I	8,168 *	0.1	0.009	0.9	N/A	N/A	16	0.9
Endosulfan II	8,031 *	0.1	0.009	0.9	N/A	N/A	16	0.9
Endosulfan Sulfate	10,038 *	0.1	0.01	1.0	N/A	N/A	16	1.0
Endrin	9,157 *	ND (<0.01)	0.001	0.1	N/A	20	8	0.10

TABLE 3 (Continued)

Contaminant	Partition Coefficient, Koc	Groundwater Standards/ Criteria, Cw (ug/l or ppb)	a Allowable soil conc., Cs (ppm)	b ** Soil cleanup objectives to protect GW quality (ppm)	USEPA Health Based (ppm) Carcin-ogens	Systemic Toxicants	CRQL (ppb)	*** Rec. Soil Cleanup Objective (ppm)
Endrin keytone	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
gamma - BHC (Lindane)	1,080	ND (<0.05)	0.0006	0.06	5.4	20	8	0.06
gamma - chlordane	140,000	0.1	0.14	14.0	0.54	5	80	0.54
Heptachlor	12,000	ND (<0.01)	0.0010	0.1	0.16	40	8	0.10
Heptachlor epoxide	220	ND (<0.01)	0.0002	0.02	0.077	0.8	8	0.02
Methoxychlor	25,637	35.0	9.0	900	N/A	400	80	***
Mitotane	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Parathion	760	1.5	0.012	1.2	N/A	500	8	1.2
PCBs	17,510 *	0.1	0.1	10.0	1.0	N/A	160	1.0 (Surface) 10 (sub-surf)
Polychlorinated dibenzo-furans (PCDF)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silvex	2,600	0.26	0.007	0.7	N/A	600	330	0.7
2,4,5-T	53	35	0.019	1.9	N/A	200	330	1.9

a. Allowable Soil Concentration Cs = f x Cw x Koc
b. Soil cleanup objective = Cs x Correction Factor (CF)
N/A is not available

* Partition coefficient is calculated by using the following equation:
log Koc = -0.55 log S + 3.64, where S is solubility in water in ppm.
All other Koc values are experimental values.

** Correction Factor (CF) of 100 is used as per TAGM #4046

*** As per TAGM #4046, Total VOCs < 10 ppm.

Note: Soil cleanup objectives are developed for soil organic carbon content (f) of 1% (5% for PCBs as per PCB Guidance Document), and should be adjusted for the actual soil organic carbon content if it is known.

APPENDIX A

TABLE 4
Recommended soil cleanup objectives (mg/kg or ppm)
Heavy Metals

Contaminants	Protect Water Quality (ppm)	Eastern USA Background (ppm)	* CRDL (mg/kg or ppm)	***** Rec. Soil Cleanup Objective (ppm)
Aluminum	N/A	33,000	2.0	SB
Antimony	N/A	N/A	0.6	SB
Arsenic	N/A	3-12 **	0.1	7.5 or SB
Barium	N/A	15-600	2.0	300 or SB
Beryllium	N/A	0-1.75	0.05	0.16 (HEAST) or SB
Cadmium	N/A	0.1-1	0.05	1 or SB
Calcium	N/A	130 - 35,000 ***	50.0	SB
Chromium	N/A	1.5 - 40 **	0.1	10 or SB
Cobalt	N/A	2.5 - 60 **	0.5	30 or SB
Copper	N/A	1 - 50	0.25	25 or SB
Cyanide	N/A	N/A	0.1	***
Iron	N/A	2,000 - 550,000	1.0	2,000 or SB
Lead	N/A	****	0.03	SB ****
Magnesium	N/A	100 - 5,000	50.0	SB
Manganese	N/A	50 - 5,000	0.15	SB
Mercury	N/A	0.001 - 0.2	0.002	0.1
Nickel	N/A	0.5 -25	0.4	13 or SB
Potassium	N/A	8,500 - 43,000 **	50.0	SB
Selenium	N/A	0.1 - 3.9	0.05	2 or SB
Silver	N/A	N/A	0.1	SB
Sodium	N/A	6,000 - 8,000	50.0	SB
Thallium	N/A	N/A	0.1	SB
Vanadium	N/A	1-300	0.5	150 or SB
Zinc	N/A	9-50	0.2	20 or SB

Note: Some forms of metal salts such as Aluminum Phosphide, Calcium Cyanide, Potassium Cyanide, Copper cyanide, Silver cyanide, Sodium cyanide, Zinc phosphide, Thallium salts, Vanadium pentoxide and Chromium (VI) compounds are more toxic in nature. Please refer to the USEPA HEASTs database to find cleanup objectives if such metals are present in soil.

SB is site background
N/A is not available

* CRDL is contract required detection limit which is approx. 10 times the CRDL for water.

** New York State background

*** Some forms of Cyanide are complex and very stable while other forms are pH dependent and hence are very unstable. Site-specific form(s) of Cyanide should be taken into consideration when establishing soil cleanup objective.

**** Background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61 ppm. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200-500 ppm.

***** Recommended soil cleanup objectives are average background concentrations as reported in a 1984 survey of reference material by E. Carol McGovern, NYSDEC.

APPENDIX B

Conventional Sediment Variables
Total Organic Carbon (TOC)
March 1986

TOTAL ORGANIC CARBON (TOC)

USE AND LIMITATIONS

Total organic carbon is a measure of the total amount of nonvolatile, volatile, partially volatile, and particulate organic compounds in a sample. Total organic carbon is independent of the oxidation state of the organic compounds and is not a measure of the organically bound and inorganic elements that can contribute to the biochemical and chemical oxygen demand tests.

Because inorganic carbon (e.g., carbonates, bicarbonates, free CO_2) will interfere with total organic carbon determinations, samples should be treated to remove inorganic carbon before being analyzed.

FIELD PROCEDURES

Collection

Samples can be collected in glass or plastic containers. A minimum sample size of 25 g is recommended. If unrepresentative material is to be removed from the sample, it should be removed in the field under the supervision of the chief scientist and noted on the field log sheet.

Processing

Samples should be stored frozen and can be held for up to 6 months under that condition. Excessive temperatures should not be used to thaw samples.

LABORATORY PROCEDURES

Analytical Procedures

- Equipment
  - Induction furnace
    e.g., Leco WR-12, Dohrmann DC-50, Coleman CH analyzer, Perkin Elmer 240 elemental analyzer, Carlo-Erba 1106
  - Analytical balance
    0.1 mg accuracy
  - Desiccator
  - Combustion boats
  - 10 percent hydrochloric acid (HCL)
  - Cupric oxide fines (or equivalent material)
  - Benzoic acid or other carbon source as a standard.

- Equipment preparation

- Clean combustion boats by placing them in the induction furnace at 950° C. After being cleaned, combustion boats should not be touched with bare hands.
- Cool boats to room temperature in a desiccator.
- Weigh each boat to the nearest 0.1 mg.

◦ Sample preparation
- Allow frozen samples to warm to room temperature.
- Homogenize each sample mechanically, incorporating any overlying water.
- Transfer a representative aliquot (5-10 g) to a clean container.

◦ Analytical procedures
- Dry samples to constant weight at 70 ± 2°C. The drying temperature is relatively low to minimize loss of volatile organic compounds.
- Cool dried samples to room temperature in a desiccator.
- Grind sample using a mortar and pestle to break up aggregates.
- Transfer a representative aliquot (0.2-0.5 g) to a clean, preweighed combustion boat.
- Determine sample weight to the nearest 0.1 mg.
- Add several drops of HCL to the dried sample to remove carbonates. Wait until the effervescing is completed and add more acid. Continue this process until the incremental addition of acid causes no further effervescence. Do not add too much acid at one time as this may cause loss of sample due to frothing. Exposure of small samples (i.e., 1-10 mg) having less than 50 percent carbonate to an HCL atmosphere for 24-48 h has been shown to be an effective means of removing carbonates (Hedges and Stern 1984). If this method is used for sample sizes greater than 10 mg, its effectiveness should be demonstrated by the user.
- Dry the HCL-treated sample to constant weight at 70 ± 2° C.
- Cool to room temperature in a desiccator.
- Add previously ashed cupric oxide fines or equivalent material (e.g., alumina oxide) to the sample in the combustion boat.
- Combust the sample in an induction furnace at a minimum temperature of 950 ± 10° C.

◦ Calculations
- If an ascarite-filled tube is used to capture CO_2, the carbon content of the sample can be calculated as follows:

$$\text{Percent carbon} = \frac{A\ (0.2729)\ (100)}{B}$$

Where:

A = the weight (g) of CO_2 determined by weighing the ascarite tube before and after combustion

B = dry weight (g) of the unacidified sample in the combustion boat

0.2729 = the ratio of the molecular weight of carbon to the molecular weight of carbon dioxide

A silica gel trap should be placed before the ascarite tube to catch any moisture driven off during sample combustion. Additional silica gel should be placed at the exit end of the ascarite tube to trap any water that might be formed by reaction of the trapped CO_2 with the NaOH in the ascarite.

- If an elemental analyzer is used, the amount of CO_2 will be measured by a thermal conductivity detector. The instrument should be calibrated daily using an empty boat blank as the zero point and at least two standards. Standards should bracket the expected range of carbon concentrations in the samples.

QA/QC Procedures

It is critical that each sample be thoroughly homogenized in the laboratory before a subsample is taken for analysis. Laboratory homogenization should be conducted even if samples were homogenized in the field.

Dried samples should be cooled in a desiccator and held there until they are weighed. If a desiccator is not used, the sediment will accumulate ambient moisture and the sample weight will be overestimated. A color-indicating desiccant is recommended so that spent desiccant can be detected easily. Also, the seal on the desiccator should be checked periodically and, if necessary, the ground glass rims should be greased or the "O" rings should be replaced.

It is recommended that triplicate analyses be conducted on one of every 20 samples, or on one sample per batch if less than 20 samples are analyzed. A method blank should be analyzed at the same frequency as the triplicate analyses. The analytical balance should be inspected daily and calibrated at least once per week. The carbon analyzer should be calibrated daily with freshly prepared standards. A standard reference material should be analyzed at least once for each major survey.

DATA REPORTING REQUIREMENTS

Total organic carbon should be reported as a percentage of the dry weight of the unacidified sample to the nearest 0.1 unit. The laboratory should report the results of all samples (including QA replicates, method blanks, and standard reference measurements) and should note any problems that may have influenced sample quality. The laboratory should also provide a summary of the calibration procedure and results (e.g., range covered, regression equation, coefficient of determination).

Part 700 [Part 1/1]. *This regulation became effective in 1972 and was last amended August 1999.*

Available DEC Guidance: The Division of Water Technical and Operational Guidance Series (TOGS 1.1.1)

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WATER QUALITY REGULATIONS

6 NYCRR PARTS 700-706

ARTICLE 2

Classifications and Standards of Quality and Purity

PART

700 Definitions, Samples and Tests
701 Classifications-Surface Waters and Groundwaters
702 Derivation and Use of Standards and Guidance Values
703 Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations
704 Criteria Governing Thermal Discharges
705 References
706 Appendices for Parts 700-705

PART 700

DEFINITIONS, SAMPLES AND TESTS

(Statutory authority: Environmental Conservation Law, §§ 3-0301[2][m],15-0313,17-0301, 17-0303,17-0809)

Sec.

700.1 Definitions
700.2 Collection of samples
700.3 Tests or analytical methods
700.4 Severability

Historical Note

Part repealed, new (§§ 700.1-700.2) filed: April 28, 1972; Feb. 25, 1974; repealed,new(§§ 700.1-700.4) filed Aug. 2,1991 eff. 30 days after filing.

§ 700.1 Definitions.

(a) The terms, words, or phrases used in Parts 700-705 of this Title shall have the meanings described below.

(1) *Acute toxic effect* means an effect that usually occurs shortly after the administration of either a single dose or multiple doses of a chemical.

(2) *Administrator* means the Administrator of the United States Environmental Protection Agency.

(3) *Approved treatment* as applied to water supplies means treatment accepted as satisfactory by the authorities responsible for exercising supervision over the quality of water supplies.

(4) *Best usages* as specified for each class of water means those uses as determined by the commissioner in accordance with the considerations prescribed by the Environmental Conservation Law.

(5) *Chronic toxic effect* means an effect that is irreversible or progressive or occurs because the rate of injury is greater than the rate of repair during prolonged exposure to a chemical.

(6) *Coastal waters* mean those marine waters within the territorial limits of the State other than estuaries and enclosed bays. Long Island Sound is designated as coastal waters for the purposes of thermal discharges.

(7) *Commissioner* means the Commissioner of the Department of Environmental Conservation.

(8) *Consolidated rock or bedrock* means the compact or solid hard rock beneath or exposed at the surface of the earth or overlain by surface waters.

(9) *Department* means the New York State Department of Environmental Conservation.

(10) *Disposal system* means a system for disposing of sewage, industrial waste or other wastes, including sewer systems and treatment works.

(11) *Effluent limitations* mean any restriction on quantities, qualities, rates and concentrations of chemical, physical, biological, and other constituents of effluents that are discharged into or allowed to run from an outlet or point source or any other discharge within the meaning of section 17-0501 of the Environmental Conservation Law into surface waters, groundwater or unsaturated zones.

(12) *Enclosed bays* mean those marine waters within the territorial limits of New York State, other than coastal waters or estuaries, in which exchange of sea water is severely limited by barrier beaches. For the purpose of thermal discharges, the following are designated as enclosed bays: Jamaica Bay, Hempstead Bay, Great South Bay, Moriches Bay, Shinnecock Bay and Mecox Bay.

(13) *Estuary* means the tidal portion of a river or stream.

(14) *Fresh groundwaters* mean those groundwaters having a chloride concentration equal to or less than 250 mg/L or a total dissolved solids concentration equal to or less than 1,000 mg/L.

(15) *Great Lakes System* means classified segments identified in Part 805; Parts 835 through 839; Parts 845 through 848; Parts 820 and 821; Parts 895 through 899; and Items 1a, 1b and 441 through 1661 of Part 910 of this Title.

(16) *Groundwaters* mean those waters in saturated zones.

(17) *Groundwater effluent limitations* mean those effluent limitations that have been adopted in section 703.6 or developed in accordance with section 702.16(c) of this Title for protection of groundwater.

(18) *Guidance value* means such measure of purity or quality for any waters in relation to their reasonable and necessary use as may be established by the department pursuant to sections 702.1 and 702.15 of this Title.

(19) *Heat of artificial origin* means all heat from other than natural sources, including but not limited to cumulative effects of multiple and proximate thermal discharges.

(20) *Industrial waste* means any liquid, gaseous, solid or waste substance, or a combination thereof, resulting from any process of industry, manufacturing, trade, or business or from the development or recovery of any natural resources, that may cause or might reasonably be expected to cause pollution of the waters of the State in contravention of the standards adopted pursuant to the Environmental Conservation Law, article 17.

(21) *Land application techniques* include the following three basic methods of waste discharge application: irrigation, infiltration-percolation, and overland flow.

(22) *Land utilization practices* entail the use of plants, the soil surface, and soil matrix for removal of certain wastewater constituents.

(23) *Micrograms per liter (ug/L)* means the weight in micrograms of any specific substance or substances contained in one liter of liquid.

(24) *Milligrams per liter (mg/L)* means the weight in milligrams of any specific substance or substances contained in one liter of liquid.

(25) *New York/New Jersey harbor* means saltwater classified segments identified in Part 859; Part 864; Part 890, except Item 1 and its tributaries; Part 891; and Items 1, 2 and 3 and their tributaries of Part 935 of this Title.

(26) *Oncogenic effect* means the induction of tumors that has been demonstrated in:

i. humans;
ii. two mammalian species;
iii. one mammalian species, independently reproduced;
iv. one mammalian species, to an unusual degree with respect to incidence, latency period, site, tumor type or age at onset;
v. one mammalian species, supported by positive results in short-term tests that are indicative of potential oncogenic activity; or
vi. one mammalian species, supported by positive results for another substance for which similar oncogenic effects are anticipated because of similarity of functional groups or metabolic or toxicologic pathways.

(27) *Other wastes* means garbage, refuse, decayed wood, sawdust, shavings, bark, sand, lime, cinders, ashes, offal, oil, tar, dyestuffs, acids, chemicals, leachate, sludge, salt and all other discarded matter not sewage or industrial waste that may cause or might reasonably be expected to cause pollution of the waters of the State in contravention of the standards adopted pursuant to the Environmental Conservation Law, article 17.

(28) *Outlet* means the terminus of a sewer system, or the point of emergence of any waterborne sewage, industrial waste or other wastes or the effluent therefrom, into the waters of the State.

(29) *Pathogenic organism* means any disease-producing organism.

(30) *Person or persons* means any individual, public or private corporation, political subdivision, government agency, municipality, industry, co-partnership, association, firm, trust, estate or any other legal entity whatsoever.

(31) *Point source* means any discernible, confined and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation or vessel or other floating craft from which pollutants are or may be discharged.

(32) *Pollutant* means dredged spoil, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand, and industrial, municipal, and agricultural waste discharged into water.

(33) *Pollution* means the presence in the environment of conditions and/or contaminants in quantities of characteristics that are or may be injurious to human, plant or animal life or to property or that unreasonably interfere with the comfortable enjoyment of life and property throughout such areas of the State as shall be affected thereby.

(34) *Potable waters* mean those fresh waters usable for drinking, culinary or food processing purposes.

(35) *Primary contact recreation* means recreational activities where the human body may come in direct contact with raw water to the point of complete body submergence. Primary contact recreation includes, but is not limited to, swimming, diving, water skiing, skin diving and surfing.

(36) *Principal organic contaminant classes* means the classes of organic chemicals listed below.

(i) Halogenated alkane: compound containing carbon (C), hydrogen (H) and halogen (X) where X = fluorine (F), chlorine (Cl), bromine (Br) and/or iodine (I), having the general formula $C_nH_yX_z$, where $y + z = 2n + 2$; n, y and z are integer variables; n and z are equal to or greater than one and y is equal to or greater than zero. Specifically excluded from this class are chloroform, bromoform, bromodichloromethane and dibromochloromethane.

(ii) Halogenated ether: compound containing carbon (C), hydrogen (H), oxygen (O) and halogen (X) (where X = F, Cl, Br and/or I) having the general formula $C_nH_yX_zO$, where $y + z = 2n + 2$; the oxygen is bonded to two carbons; n, y and z are integer variables; n is equal to or greater than two, y is equal to or greater than zero and z is equal to or greater than one.

(iii) Halobenzenes and substituted halobenzenes: derivatives of benzene which have at least one halogen atom attached to the ring and which may or may not have straight or branched chain hydrocarbon, nitrogen or oxygen substituents.

(iv) Benzene and alkyl- or nitrogen-substituted benzenes: benzene or a derivative of benzene which has either an alkyl- and/or a nitrogen-substituent.

(v) Substituted, unsaturated hydrocarbons: a straight or branched chain unsaturated hydrocarbon compound containing one of the following: halogen, aldehyde, nitrile or amide.

(vi) Halogenated nonaromatic cyclic hydrocarbons: a nonaromatic cyclic compound containing a halogen.

(37) *Saline groundwater* means groundwater having a chloride concentration of more than 250 mg/L or a total dissolved solids concentration of more than 1,000 mg/L.

(38) *Saline surface waters* mean all waters that are so designated by the commissioner.

(39) *Saturated zones* means any extensive portion of the earth's crust that contains sufficient water to fill all interconnected voids or pore spaces.

(40) *Secondary contact recreation* means recreational activities where contact with the water is minimal and where ingestion of the water is not probable. Secondary contact recreation includes, but is not limited to, fishing and boating.

(41) *Sewage* means the water-carried human or animal wastes from residences, buildings, industrial establishments or other places, together with such groundwater infiltration and surface water as may be present.

(42) *Source of water supply for drinking, culinary or food processing purposes* means any water source, either public or private, that is used for domestic consumption or used in connection with the processing of milk, beverages or food.

(43) *Specific MCL* means a maximum contaminant level (MCL) included in 10 NYCRR 5-1.51, 5-1.52 or 5-1.55 for either an individual substance or group of substances. A Specific MCL does not include the 10 NYCRR Part 5 MCLs for principal organic contaminants or unspecified organic contaminants.

(44) *Standards* mean such measures of purity or quality for any waters in relation to their reasonable and necessary use as may be established by the department pursuant to section 17-0301 of the Environmental Conservation Law.

(45) *Subsurface sewage disposal system* means a disposal system that discharges sewage beneath the surface of the ground.

(46) *Thermal discharge* means a discharge that results or would result in a temperature change of the receiving water.

(47) *Toxic pollutant* means those pollutants, or combination of pollutants, including disease-causing agents, that after discharge and upon exposure, ingestion, inhalation or assimilation into any organism, either directly from the environment or indirectly through food chains, will, on the basis of information available to the department, cause death, disease, behavioral abnormalities, cancer, genetic mutations, physiological malfunctions, including malfunctions in reproduction, or physical deformations, in such organisms or their offspring.

(48) *Treatment works* means any plant, disposal field, lagoon, pumping station, constructed drainage ditch or surface water intercepting ditch, incinerator, area devoted to sanitary landfills or other works not specifically mentioned here, installed for the purpose of treating, neutralizing, stabilizing or disposing of sewage, industrial waste or other wastes.

(49) *Unconsolidated deposits* means all non- or poorly indurated soil materials above the bedrock.

(50) *Waste management system* includes the management of mechanical equipment, crops, irrigation and monitors as an operational unit.

(51) *Water quality-based effluent limitations* means effluent limitations for surface waters that are derived from water quality standards or guidance values.

Historical Note
Sec. repealed, new filed: April 28, 1972; Feb. 25,1974; Aug. 2, 1991; amds. filed Feb. 10, 1998; July 16, 1999 eff. Aug. 4, 1999. Amended (a)(15).

§ 700.2 Collection of samples.

(a) The determination of compliance or noncompliance of sewage, industrial waste or other waste discharges with the requirements of Parts 700 through 705 of this Title shall be made through analytical methods or tests of groundwater, surface water or effluent samples collected in such manner as approved by the department.

(b) In selecting or approving the locations at which such samples are collected, the department shall consider all relevant factors, including but not limited to subdivisions (c) through (e) of this section.

(c) For groundwater samples:

(1) the mobility of pollutants in unsaturated zones, which, among other things, is affected by the rate of movement of percolating water; and

(2) attenuation of pollutants that may occur in passage through unsaturated and saturated zones.

(d) For surface water samples:

(1) there must be prompt mixing of the discharge with the receiving waters;

(2) mixing shall not interfere with biological communities to a degree that is damaging to the ecosystem;

(3) the zone of mixing shall not include intakes for potable water supplies; and

(4) mixing shall not diminish other beneficial uses disproportionately.

(e) The location at which effluent samples are collected shall be at a point where the effluent emerges from a treatment works, disposal system, outlet or point source, and prior to being discharged to surface water or the ground, unless specified otherwise by a State Pollutant Discharge Elimination System (SPDES) permit issued pursuant to Parts 750-758 of this Title.

Historical Note
Sec. repealed, new filed: April 28, 1972; Feb. 25, 1974; amd. filed Nov. 5, 1984; repealed, new filed Aug. 2, 1991; amd. filed Feb. 10, 1998 eff. 30 days after filing. Amended (b).

§ 700.3 Tests or analytical methods.

(a) Tests or analytical methods for measurement of surface water or groundwater to determine compliance with standards or guidance values shall be made in accordance with the following requirements:

(1) 40 CFR part 136, as of July 1, 1988 (see section 705.1 of this Title); or

(2) other tests or analytical methods approved by the department.

(b) Tests or analytical methods to determine compliance with effluent limitations shall be made in accordance with subdivision (a) of this section, unless a different test or analytical method is specified in a State Pollutant Discharge Elimination System permit.

Historical Note
Sec. filed Aug. 2, 1991 eff. 30 days after filing.

§ 700.4 Severability.

Historical Note
Sec. filed Aug. 2, 1991 eff. 30 days after filing.

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Go to Part 701 to continue.

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Go to Part 701 to continue.

Part 701 [1/1]. *This regulation became effective in 1967 and was last amended March 1998.*

Available DEC Guidance: The Division of Water Technical and Operational Guidance Series (TOGS 1.1.1)

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PART 701

CLASSIFICATIONS-SURFACE WATERS AND GROUNDWATERS

(Statutory authority: Environmental Conservation Law, §§ 1-0101, 3-0301 [2][m], 15-0313, 17-0101, 17-0301, 17-0303, 17-0809)

Sec.
701.1 General conditions applying to all water classifications
FRESH SURFACE WATERS
701.2 Class N fresh surface waters
701.3 Class AA-Special (AA-S) fresh surface waters
701.4 Class A-Special (A-S) fresh surface waters
701.5 Class AA fresh surface waters
701.6 Class A fresh surface waters
701.7 Class B fresh surface waters
701.8 Class C fresh surface waters
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SALINE SURFACE WATERS
701.10 Class SA saline surface waters
701.11 Class SB saline surface waters
701.12 Class SC saline surface waters
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GROUNDWATERS
701.15 Class GA fresh groundwaters
701.16 Class GSA saline groundwaters
701.17 Class GSB saline groundwaters
701.18 Assignment of groundwater classifications
DISCHARGE RESTRICTION CATEGORIES
701.19 Discharge restriction categories
701.20 Purpose
701.21 Criteria
701.22 Allowable discharges

701.23 No new discharge
701.24 No new discharge of a specified substance
701.25 Severability

Historical Note
Part repealed, new filed: April 28, 1972; Feb. 25, 1974;
repealed new (§§ 701.1-701.19) filed Aug 2, 1991 eff. 30 days after filing.

§ 701.1 General conditions applying to all water classifications.

The discharge of sewage, industrial waste or other wastes shall not cause impairment of the best usages of the receiving water as specified by the water classifications at the location of discharge and at other locations that may be affected by such discharge.

Historical Note
Sec. repealed, new filed April 28, 1972; amds. filed: Nov. 5, 1984;
July 3, 1985; repealed, new filed Aug. 2, 1991 eff. 30 days after filing.

FRESH SURFACE WATERS

§ 701.2 Class N fresh surface waters.

(a) The best usages of Class N waters are the enjoyment of water in its natural condition and, where compatible, as a source of water for drinking or culinary purposes, bathing, fishing, fish propagation, and recreation.

(b) There shall be no discharge of sewage, industrial wastes, or other wastes, waste effluents or any sewage effluents not having had filtration resulting from at least 200 feet of lateral travel through unconsolidated earth. A greater distance may be required if inspection shows that, due to peculiar geologic conditions, this distance is inadequate to protect the water from pollution.

(c) These waters shall contain no deleterious substances, hydrocarbons or substances that would contribute to eutrophication, nor shall they receive surface runoff containing any such substance.

Historical Note
Sec. repealed, new filed: April 28, 1972; Feb. 25, 1974; amd. filed July 3, 1985;
repealed, new filed Aug. 2, 1991 eff. 30 days after filing.

§ 701.3 Class AA-Special (AA-S) fresh surface waters.

(a) The best usages of Class AA-S waters are: a source of water supply for drinking, culinary or food processing purposes; primary and secondary contact recreation; and fishing. The waters shall be suitable for fish propagation and survival.

(b) These waters shall contain no floating solids, settleable solids, oil, sludge deposits, toxic wastes, deleterious substances, colored or other wastes or heated liquids attributable to sewage, industrial wastes or other wastes.

(c) There shall be no discharge or disposal of sewage, industrial wastes or other wastes into

these waters.

(d) These waters shall contain no phosphorus and nitrogen in amounts that will result in growths of algae, weeds and slimes that will impair the waters for their best usages.

Historical Note
Sec. amd. filed May 26, 1967; repealed, new filed: April 28, 1972; Feb. 25, 1974;
renum. 701.18, new filed July 3 1985; repealed, new filed Aug. 2, 1991 eff. 30 days after filing.

§ 701.4 Class A-Special (A-S) fresh surface waters.

(a) The best usages of Class A-S waters are: a source of water supply for drinking, culinary or food processing purposes; primary and secondary contact recreation; and fishing. The waters shall be suitable for fish propagation and survival.

(b) This classification may be given to those international boundary waters that, if subjected to approved treatment, equal to coagulation, sedimentation, filtration and disinfection with additional treatment, if necessary, to reduce naturally present impurities, meet or will meet New York State Department of Health drinking water standards and are or will be considered safe and satisfactory for drinking water purposes.

Historical Note
Sec. repealed, new filed: April 28, 1972; Feb. 25, 1974; amd. filed Sept 20, 1974;
renum. 701.19, new filed July 3, 1985; repealed, new filed Aug 2, 1991 eff. 30 days after filing.

§ 701.5 Class AA fresh surface waters.

(a) The best usages of Class AA waters are: a source of water supply for drinking, culinary or food processing purposes; primary and secondary contact recreation; and fishing. The waters shall be suitable for fish propagation and survival.

(b) This classification may be given to those waters that, if subjected to approved disinfection treatment, with additional treatment if necessary to remove naturally present impurities, meet or will meet New York State Department of Health drinking water standards and are or will be considered safe and satisfactory for drinking water purposes.

Historical Note
Sec. repealed, filed March 20, 1967; new filed Feb. 25, 1974; amd. filed Sept 20, 1974;
renum. 701.20, new filed July 3, 1985; repealed, new filed Aug 2, 1991 eff. 30 days after filing.

§ 701.6 Class A fresh surface waters.

(a) The best usages of Class A waters are: a source of water supply for drinking, culinary or food processing purposes; primary and secondary contact recreation; and fishing. The waters shall be suitable for fish propagation and survival.

(b)This classification may be given to those waters that, if subjected to approved treatment equal to coagulation, sedimentation, filtration and disinfection, with additional treatment if necessary to reduce naturally present impurities, meet or will meet New York State Department of Health drinking water standards and are or will be considered safe and satisfactory for drinking water purposes.

Historical Note
Sec. filed July 3, 1985; repealed, new filed Aug 2,1991 eff. 30 days after filing.

§ 701.7 Class B fresh surface waters.

The best usages of Class B waters are primary and secondary contact recreation and fishing. These waters shall be suitable for fish propagation and survival.

Historical Note
Sec. filed July 3, 1985; repealed, new filed Aug. 2,1991 eff. 30 days after filing.

§ 701.8 Class C fresh surface waters.

The best usage of Class C waters is fishing. These waters shall be suitable for fish propagation and survival. The water quality shall be suitable for primary and secondary contact recreation, although other factors may limit the use for these purposes.

Historical Note
Sec. filed July 3, 1985; repealed, new filed Aug 2,1991 eff. 30 days after filing.

§ 701.9 Class D fresh surface waters.

The best usage of Class D waters is fishing. Due to such natural conditions as intermittency of flow, water conditions not conducive to propagation of game fishery, or stream bed conditions, the waters will not support fish propagation. These waters shall be suitable for fish survival. The water quality shall be suitable for primary and secondary contact recreation, although other factors may limit the use for these purposes.

Historical Note
Sec. filed July 3, 1985; repealed, new filed Aug. 2, 1991 eff. 30 days after filing.

SALINE SURFACE WATERS

§ 701.10 Class SA saline surface waters.

The best usages of Class SA waters are shellfishing for market purposes, primary and secondary contact recreation and fishing. These waters shall be suitable for fish propagation and survival.

Historical Note
Sec. filed July 3, 1985; repealed, new filed Aug. 2, 1991 eff. 30 days after filing.

§ 701.11 Class SB saline surface waters.

The best usages of Class SB waters are primary and secondary contact recreation and fishing. These waters shall be suitable for fish propagation and survival.

Historical Note
Sec. filed July 3, 1985; repealed, new filed Aug. 2, 1991 eff. 30 days after filing.

§ 701.12 Class SC saline surface waters.

The best usage of Class SC waters is fishing. These waters shall be for fish propagation and survival. The water quality shall be suitable for primary and secondary contact recreation, although other factors may limit the use for these purposes.

Historical Note
Sec. filed July 3, 1985; repealed, new filed Aug. 2, 1991 eff. 30 days after filing.

§ 701.13 Class I saline surface waters.

The best usages of Class I waters are secondary contact recreation and fishing. These waters shall be suitable for fish propagation and survival.

Historical Note
Sec. filed July 3, 1985; repealed, new filed Aug. 2, 1991 eff. 30 days after filing.

§ 701.14 Class SD saline surface waters.

The best usage of Class SD waters is fishing. These waters shall be suitable for fish survival. This classification may be given to those waters that, because of natural or man-made conditions, cannot meet the requirements for primary and secondary contact recreation and fish propagation.

Historical Note
Sec. filed July 3, 1985; repealed, new filed Aug. 2, 1991 eff. 30 days after filing.

GROUNDWATERS

§ 701.15 Class GA fresh groundwaters.

The best usage of Class GA waters is as a source of potable water supply. Class GA waters are fresh groundwaters.

Historical Note
Sec. filed July 3, 1985; repealed, new filed Aug. 2, 1991 eff. 30 days after filing.

§ 701.16 Class GSA saline groundwaters.

The best usages of Class GSA waters are as a source of potable mineral waters, or conversion to fresh potable waters, or as raw material for the manufacture of sodium chloride or its derivatives or similar products. Class GSA waters are saline groundwaters.

Historical Note
Sec. filed July 3, 1985; repealed, new filed Aug. 2, 1991 eff. 30 days after filing.

§ 701.17 Class GSB saline groundwaters.

The best usage of Class GSB waters is as a receiving water for disposal of wastes. Class GSB waters are saline groundwaters that have a chloride concentration in excess of 1,000 milligrams per liter or a total dissolved solids concentration in excess of 2,000 milligrams per liter.

Historical Note
Sec. filed July 3, 1985; repealed, new filed Aug. 2, 1991 eff. 30 days after filing.

§ 701.18 Assignment of groundwater classifications.

(a) The groundwater classifications defined in sections 701.15 and 701.16 of this Part are assigned to all the groundwaters of New York State.

(b) The Class GSB shall not be assigned to any groundwaters of the State, unless the commissioner finds that adjacent and tributary groundwaters and the best usages thereof will not be impaired by such classification.

Historical Note
Sec. added by renum. 701.3, filed July 3, 1985; repealed, new filed Aug. 2, 1991; amd. filed Feb. 10, 1998 eff. 30 days after filing. Amended (a).

DISCHARGE RESTRICTION CATEGORIES

§ 701.19 Discharge restriction categories.

Discharge restriction categories may be assigned to surface waters or groundwaters by the department. When used, the discharge restriction category will be applied to such classified waters along with the applicable best usage and other existing standards.

Historical Note
Sec. added by renum. and amd. 701.4, filed July 3, 1985; amd. filed Sept. 20, 1985; repealed, new filed Aug. 2, 1991; renum. 701.25, new filed Sept, 7, 1993 eff. 30 days after filing.

§ 701.20 Purpose.

(a) The discharge restriction categories may be assigned to:

(1) waters of particular public health concern;

(2) significant recreational or ecological waters where the quality of the water is critical to maintaining the value for which the waters are distinguished; and

(3) other sensitive waters where the department has determined that existing standards are not adequate to maintain water quality.

(b) Waters of particular public health concern may include:

(1) waters within a 60-day water time-of-travel of unfiltered public water supply intake points;

(2) public water supply watersheds with reservoirs experiencing accelerated eutrophication;

(3) groundwaters requiring such protection as specified in watershed rules and regulations or wellhead protection programs; and

(4) marine waters certified by the department for taking of shellfish.

(c) Significant recreational and ecological waters may include:

(1) wild and scenic rivers designated as per ECL 15-2701 and Part 666 of this Title;

(2) critical aquatic habitat for fishes, amphibians, or aquatic invertebrates listed as endangered, threatened, or of special concern in Part 182 of this Title;

(3) State park waters;

(4) State and Federal wildlife management area waters;

(5) groundwaters and surface waters tributary to and within freshwater wetlands designated class I pursuant to Part 664 of this Title;

(6) classified waters within intertidal marsh and coastal fresh marsh tidal wetlands designated as per Part 661 of this Title;

(7) waters protected under the *Constitution* of the State; and

(8) pristine, minimally impacted waters with a diversity of naturally reproducing aquatic species.

(d) Other sensitive waters may include:

(1) recreational waters where accelerated eutrophication threatens current and future use of the waters;

(2) waters where physical accumulation or bioaccumulation of contaminants produce water use impairments;

(3) small trout spawning streams; and

(4) waters with little assimilative due to natural background conditions or human activities.

Historical Note
Sec. added by renum. 701.5, filed July 3, 1985; amd. filed Sept. 20, 1985; repealed, filed Aug 2, 1991; new filed Sept. 7, 1993 eff. 30 days after filing.

§ 701.21 Criteria.

(a) In assigning discharge restriction categories, the department will consider factors including the size of the waterbody, the nature of the surrounding district including the watershed, and the uses and quality of the waters. The department will also weigh the need for the additional water quality protection of the discharge restriction categories as compared with the assigned standards and best uses and the likelihood that the discharge restriction category will contribute to achieving the protection goals.

(b) As appropriate, additional consideration may be given to:

(1) the potential effects of additional discharges from new, expanded, or changed facilities or activities on the water quality value of resource;

(2) the risk to the waters or the use of the waters from unintended or incidental discharges from new facilities; and

(3) the potential effects of physical accumulation or bioaccumulation of substances not addressed by ambient standards.

(c) Substantial weight will be given to obtaining consistency with provisions of existing watershed management or protection plans adopted or certified by the State or an entity of local government.

Historical Note
Sec. filed Sept. 7, 1993 eff. 30 days after filing.

§ 701.22 Allowable discharges.

New discharges may be permitted for waters where discharge restriction categories are assigned when such discharges result from environmental remediation projects, from projects correcting environmental or public health emergencies, or when such discharges result in a reduction of pollutants for the designated waters. In all cases, best usages and standards will be maintained.

Historical Note
Sec. filed Sept 7, 1993 eff. 30 days after filing.

§ 701.23 No new discharge.

For waters designated "no new discharge," no new discharges shall be permitted, and no increase in any existing discharges shall be permitted. Storm water discharges are excepted from these restrictions. Storm water discharges and nonpoint sources of pollution shall be controlled by use of management practices to minimize the impact on the designated waters and shall comply with other applicable requirements of this Title.

Historical Note
Sec. filed Sept. 7, 1993 eff. 30 days after filing.

§ 701.24 No new discharge of a specified substance.

For waters designated "no new discharge of a specified substance," the specified substance shall not be permitted in new discharges. No increase in the release of the specified substance shall be permitted for any existing discharges. Storm water discharges are excepted from these restrictions. Storm water discharges and nonpoint sources of pollution shall be controlled by use of management practices to minimize the release of the specified substance to the designated waters and shall comply with other applicable requirements of this Title. The substance will be specified at the time the waters are designated.

Historical Note
Sec. filed Sept. 7, 1993 eff. 30 days after filing.

§ 701.25 Severability.

If any provision of this Part or its application to any person or circumstance is held to be invalid, the remainder of this Part and the application of that provision to other persons or circumstances will not be affected.

Historical Note
Sec. added by renum. 701.19, filed Sept. 7, 1993 eff. 30 days after filing.

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Part 702 [1/1] . *This regulation became effective in 1967 and last was amended August 1999.*

Available DEC Guidance: The Division of Water Technical and Operational Guidance Series (TOGS 1.1.1, TOGS 1.1.3, TOGS 1.1.4, TOGS 1.1.5)

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PART 702

DERIVATION AND USE OF STANDARDS AND GUIDANCE VALUES

(Statutory authority: Environmental Conservation Law, §§ 3-0301[2][m],15-0313, 17-0301, 17-0303, 17-0809)

Sec.

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702.22 Severability

Historical Note
Part repealed, new filed: April 28, 1972; Feb. 25, 1974; repealed, new (§§ 702.1-702.22) filed Aug. 2, 1991 eff. 30 days after filing.

§ 702.1 Basis for derivation of water quality standards and guidance values.

(a) The control of taste-, color- and odor-producing, toxic and other deleterious substances is implemented through the use of standards and guidance values. Standards and guidance values for such substances shall be derived according to the procedures set forth in this Part.

(b) The derivation of standards and guidance values will consider, to the extent possible, variations in natural or background conditions of waters, including but not limited to alkalinity, temperature, hardness and pH.

(c) Standards and guidance values shall be of the following Types to protect the best usages of the waters as described in Part 701 of this Title:

(1) Health (Water Source) or H(WS);
(2) Health (Fish Consumption) or H(FC);
(3) Aquatic (Chronic) or A(C);
(4) Aquatic (Acute) or A(A);
(5) Wildlife or W; and
(6) Aesthetic or E.

Historical Note
Sec. repealed, new filed: April 28, 1972; Feb. 25, 1974; amds. filed: Sept. 20, 1974; July 3, 1985; repealed, new filed Aug. 2, 1991; amd. filed Feb. 10, 1998 eff. 30 days after filing. Added (c).

§ 702.2 Standards and guidance values for protection of human health and sources of potable water supplies.

(a) Standards and guidance values for protection of the best usage as a source of potable water supply shall protect human health and drinking water sources and are referred to as Health (Water Source) values.

(b) The standard or guidance value shall be the most stringent of the values derived using the procedures found in sections 702.3 through 702.7 of this Part.

(c) Standards or guidance values based on oncogenic effects, chronic nononcogenic effects or chemical correlation to oncogenic or chronic nononcogenic effects shall be derived based on the consumption of two liters of water per day. Standards or guidance values based on acute nononcogenic effects or chemical correlation to acute nononcogenic effects shall be derived based on the consumption of one liter of water per day or a different consumption rate if deemed appropriate.

Historical Note
Sec. repealed, new filed: April 28, 1972; Feb. 25, 1974; amd. filed June 20, 1988; repealed, new filed Aug. 2, 1991; amd. filed Feb. 10, 1998 eff. 30 days after filing. Amended (a), added (c).

§ 702.3 Procedures for deriving standards and guidance values based on Specific MCLs and principal organic contaminant classes.

(a) The standard or guidance value shall be equal to the value of a Specific MCL unless the Specific MCL is based solely on aesthetic considerations.

(b) For a substance belonging to any of the principal organic contaminant classes and for which there is no Specific MCL, the standard or guidance value shall be 5 ug/L or a less stringent value as determined by the Commissioner of the New York State Department of Health.

Historical Note

Sec. amd. filed March 27, 1972; repealed, new filed: April 28, 1972; Feb. 25, 1974; amds. filed: Sept. 20, 1974; Sept. 20, 1985; repealed, new filed Aug. 2, 1991; amd. filed Feb. 10, 1998 eff. 30 days after filing. Amended (a).

§ 702.4 Procedures for deriving standards and guidance values based on oncogenic effects.

(a) Values based on oncogenic effects shall be calculated using dose-response data from scientifically valid animal or human studies and a linearized multi-stage low-dose extrapolation model, unless the scientific evidence is determined to be sufficient to support the use of an alternative extrapolation model.

(b) Considering factors, including but not limited to route and duration of exposure, tumor type, species and statistical significance, the dose-response data deemed to be the most appropriate shall be used as a basis for the value.

(c) Other relevant toxicological information, including but not limited to mutagenicity, pharmacokinetics and protein-binding ability shall be considered in the selection of dose-response data and procedures used to derive the value.

(d) The 95 percent lower confidence limit on the dose corresponding to an excess lifetime cancer risk of one-in-one million shall be the basis of the value.

(e) Unless the scientific evidence is determined to be sufficient to support the use of an alternative trans-species conversion method, the human dose, in milligrams of substance per kilogram of body weight per day, shall calculated by multiplying the animal-to-human body weight ratio to the 0.25 power by the animal dose in milligrams of substance per kilogram of body weight per day.

(f) The value shall be based on an average 70 kilogram adult and an exposure of 70 years.

(g) The associated biological and mathematical uncertainties shall be considered in the establishment of the value.

Historical Note

Sec. amd. filed March 27, 1972; repealed, new filed: April 28, 1972; Feb. 25, 1974; repealed, filed June 20,1988; new filed Aug. 2, 1991; amd. filed Feb. 10, 1998 eff. 30 days after filing. Amended (e)-(f).

§ 702.5 Procedures for deriving standards and guidance values based on nononcogenic effects.

(a) Values shall be based on a dose that does not produce an observed effect (no-observed-effect level) derived from the results of scientifically valid human or animal studies determined most appropriate, considering factors, including but not limited to route and duration of exposure, effects, species and statistical significance. If a valid no-observed-effect level has not been determined, a minimal effect level may be used.

(b) The no-observed-effect level (NOEL) or the minimal effect level, expressed as a dose in milligrams of substance per kilogram of body weight, shall be divided by an uncertainty factor to obtain an acceptable daily intake (ADI). The magnitude of this factor will generally range from 10 to 1,000 and shall reflect the quantity and quality of the toxicologic data, the degree of confidence in the data and the nature of the effects of concern. Generally, the magnitude of the uncertainty factor shall be:

(1) 10 - where valid experimental results from prolonged exposure studies of humans and one or more animal species are available.

(2) 100 - where experimental results from prolonged exposures of humans are inconclusive or not available, and valid results of long-term studies on experimental animals exist.

(3) 1,000 - where experimental results of studies on human exposure are unavailable or inconclusive, and valid results from long-term ingestion studies on experimental animals are not available.

(c) Values based on chronic toxic effects shall allow no more than 20 percent of the ADI to come from drinking water and shall be derived based on an average 70-kilogram adult.

(d) Values based on acute toxic effects shall allow 20 percent of the ADI to come from drinking water and shall be derived based on an average 10-kilogram child. Alternative values for percentage of ADI or for body weight may be used if deemed appropriate.

Historical Note
Sec. repealed, new filed April 28, 1972; repealed, filed Feb. 25, 1974; new filed Aug. 2, 1991; amd. filed Feb. 10, 1998 eff. 30 days after filing. Amended (c)-(d), repealed (e).

§ 702.6

Historical Note
Sec. repealed, filed March 22, 1968; new filed Aug. 2, 1991; repealed, filed Feb. 10, 1998 eff. 30 days after filing.

§ 702.7 Procedure for deriving standards and guidance values based on chemical correlation.

Where the available data are deemed insufficient for deriving a value on the basis of either of sections 702.4 or 702.5 of this Part, a value may be based on correlation to a chemical for which a standard or guidance value has been established pursuant to those sections.

Values based on chemical correlation may be established where similar toxic effects are anticipated because of similarity of functional groups or metabolic or toxicologic pathways.

Historical Note
Sec. repealed, filed March 22, 1968; new filed Aug. 2, 1991; amd. filed Feb. 10, 1998 eff. 30 days after filing.

§ 702.8 Procedures for deriving standards and guidance values for protection of human health from consumption of fish.

Standards and guidance values for the protection of the best usage of fishing shall protect the health of human consumers of finfish and, for Class SA waters, human consumers of shellfish from chemicals that may bioaccumulate and are referred to as Health (Fish Consumption) values.

(a) Standards and guidance values based on bioaccumulation and human consumption of fish shall be equal to the acceptable daily intake from fish consumption divided by a fish consumption rate of 0.033 kilograms per day and by a bioaccumulation factor.

(b) The acceptable daily intake, in micrograms per day, from fish consumption shall be the more stringent of:

(1) 20 percent of the ADI (for nononcogenic effects) as determined from section 702.5 or 702.7 of this Part; or

(2) the human dose (for oncogenic effects) as determined from section 702.4 or 702.7 of this Part.

(c) The bioaccumulation factor is the ratio of the concentration of a substance in fish flesh, in micrograms per kilogram, to the concentration in water, in micrograms per liter. Bioaccumulation factors will generally be based on measured values which may be supported by bioaccumulation factors derived from octanol/water partition coefficients.

Historical Note
Sec. filed May 24, 1967; repealed, new filed April 28, 1972; repealed, filed Feb. 25, 1974; new filed Aug. 2, 1991; amd. filed Feb. 10, 1998 eff. 30 days after filing.

§ 702.9 Standards and guidance values for protection of aquatic life.

(a) Protection of the best usage of fishing shall include standards and guidance values for the protection of aquatic life.

(b) Standards and guidance values for the protection of propagation of aquatic life are referred to as Aquatic (Chronic) values.

(c) Standards and guidance values for the protection of survival of aquatic life are referred to as Aquatic (Acute) values.

(d) Where the waters are to be suitable for both fish propagation and survival, both Aquatic (Chronic) and Aquatic (Acute) standards or guidance values shall apply.

(e) Where the waters are to be suitable only for fish survival, Aquatic (Acute) standards and guidance values shall apply.

(f) Standards and guidance values shall be derived using the procedures found in section 706.1 of this Title.

(g) Where the available data are deemed insufficient for deriving a value on the basis of section 706.1 of this Title, a value may be based on correlation to a chemical for which a standard or guidance value has been established pursuant to that section where similar toxic effects are anticipated because of similarity of functional groups or metabolic or toxicologic pathways.

Historical Note
Sec. filed Aug. 2, 1991; repealed, new filed Feb. 10, 1998 eff. 30 days after filing.

§ 702.10-702.12

Historical Note
Secs. filed Aug. 2, 1991; repealed, filed Feb.10, 1998 eff. 30 days after filing.

§ 702.13 Procedures for deriving standards and guidance values for protection of wildlife.

(a) Protection of the best usage of fishing shall include standards and guidance values for protection of the health of wildlife consumers of aquatic life and water. Such values are referred to as Wildlife values.

(b) Standards and guidance values to protect wildlife shall be derived using levels of chemicals known to be toxic to wildlife in conjunction with a bioaccumulation factor and wildlife consumption rates of aquatic life and water.

(c) Where the available data are deemed insufficient for deriving a value on the basis of subdivision (b) of this section, a value may be based on correlation to a chemical for which a standard or guidance value has been established pursuant to that subdivision. Values based on chemical correlation may be established where similar toxic effects are anticipated because of similarity of functional groups or metabolic or toxicologic pathways.

Historical Note
Sec. filed Aug. 2, 1991; repealed, new filed Feb. 10, 1998;
amd. filed July 16, 1999 eff. August 4, 1999. Amended (c).

§ 702.14 Procedures for deriving standards and guidance values based on aesthetic considerations.

(a) Protection of the best usage as a source of potable water supply shall include standards and guidance values to protect the aesthetic quality of the water. Protection of the best usage of fishing shall include standards and guidance values to prevent tainting of aquatic food.

(b) Standards and guidance values described in subdivision (a) of this section are referred

to as Aesthetic values and shall be the most stringent of the values derived according to the procedures in subdivisions (c) through (e) of this section.

(c) Values based on aesthetic considerations for sources of potable water, including but not limited to taste, odor and discoloration, shall be based on an evaluation of the reported levels of the substance that affect the aesthetic quality of the water. Values derived in accordance with this section shall not exceed the value of a Specific MCL that is based on aesthetic considerations.

(d) Values based on tainting of aquatic food, including but not limited to taste, odor and discoloration, shall be based on an evaluation of the reported levels of the substance that affect the aesthetic quality of the fish flesh, aquatic life, wildlife or livestock that are consumed by humans and that acquire such flavor, odor or color because of habitation in, passage through, or ingestion of waters.

(e) Where the available data are deemed insufficient for deriving a value based on subdivision (c) or (d) of this section, a value may be established based on chemical correlation to a chemical for which a standard or guidance value has been established pursuant to those subdivisions, where similar aesthetic considerations are anticipated because of similarity of functional groups or metabolic or toxicologic pathways.

Historical Note

Sec. filed Aug. 2, 1991; repealed, new filed Feb. 10, 1998 eff. 30 days after filing.

§ 702.15 Derivation of guidance values.

(a) For those substances that do not have an applicable Health (Water Source) standard in section 703.5 of this Title and that the department determines may pose a threat to human health if discharged to the waters of the State, a guidance value may be derived and shall be the more stringent of the following:

(1) the values derived by applying the procedures from sections 702.3 through 702.7 of this Part; or

(2) a "general organic guidance value" of 50 ug/L for an individual organic substance. This paragraph does not apply if adequate and sufficient data are available to justify values greater than 50 ug/L using procedures from both sections 702.4 and 702.5 of this Part.

(b) For those substances that do not have an applicable Health (Fish Consumption) standard in section 703.5 of this Title and that the department determines may pose a threat to human health if discharged to the waters of the State, a guidance value may be derived by applying the procedures from section 702.8 of this Part.

(c) (1) For those substances that do not have an applicable Aquatic (Chronic) standard in section 703.5 of this Title and that the department determines may pose a threat to aquatic life or the environment if discharged to the waters of the State, a guidance value may be derived by applying the appropriate procedure from section 702.9 of this Part.

(2) For those substances that have an identified applicable Aquatic (Chronic) standard in section 703.5 of this Title, a guidance value shall be substituted where the procedures in section 702.9 of this Part yield a more stringent value. Remarks in Table 1 of section 703.5(f) of this Title identify the standards to which this paragraph applies. This paragraph applies only to the waters of the Great Lakes System.

(d) (1) For those substances that do not have an applicable Aquatic (Acute) standard in section 703.5 of this Title and that the department determines may pose a threat to aquatic life or the environment if discharged to the waters of the State, a guidance value may be derived by applying the appropriate procedure from section 702.9 of this Part.

(2) For those substances that have an identified applicable Aquatic (Acute) standard in section 703.5 of this Title, a guidance value shall be substituted where the procedures in section 702.9 of this Part yield a more stringent value. Remarks in Table 1 of section 703.5(f) of this Title identify the standards to which this paragraph applies. This paragraph applies only to the waters of the Great Lakes System.

(e) For those substances that do not have an applicable Wildlife standard in section 703.5 of this Title and that the department determines may pose a threat to wildlife if discharged to the waters of the State, a guidance value may be derived by applying the appropriate procedure from section 702.13 of this Part.

(f) For those substances that do not have an applicable Aesthetic standard in section 703.5 of this Title and that the department determines may pose a threat to the aesthetic quality of sources of potable water or food for human consumption if discharged to the waters of the State, a guidance value may be derived by applying the appropriate procedure from section 702.14 of this Part.

Historical Note
Sec. filed Aug. 2, 1991; amd. filed Feb. 10, 1998 eff. 30 days after filing.

§ 702.16 Derivation and implementation of effluent limitations.

(a) Standards and guidance values shall be used to control taste-, color- and odor-producing, toxic and deleterious substances, as specified in the narrative standards for fresh and saline surface waters and groundwaters and shall be the basis of water quality-based effluent limitations and groundwater effluent limitations for use in SPDES permits issued pursuant to Parts 750-758 of this Title.

(b) *Surface water effluent limitations.*

(1) When deriving a water quality-based effluent limitation from a surface water standard or guidance value, the department may take into account factors, including but not limited to analytical detectability, treatability, natural background levels and the waste assimilative capacity of the receiving waters.

(2) Where these factors indicate that achieving a water quality-based effluent limitation would be clearly unreasonable, the department may substitute a modified effluent limitation. Where the effluent limitation had been derived from an aquatic standard or

guidance value, the department shall also require biological monitoring.

(3) A surface water effluent limitation for the total of organic substances that have a Health (Water Source) standard for surface water in Table 1 of section 703.5(f) of this Title or a guidance value for surface water derived pursuant to section 702.15(a) of this Part shall be established based on an ambient value of 100 ug/L. Where such standards or guidance values are 100 ug/L or greater, they shall not be included in the total.

(c) Groundwater effluent limitations.

(1) Groundwater effluent limitations are provided in Table 3 of section 703.6(e) of this Title. For those substances not included in Table 3 of section 703.6(e) of this Title and for which a guidance value has been derived as provided in section 702.15(a) or section 702.15(f) of this Part, the groundwater effluent limitation shall be equal to the guidance value.

(2) When implementing a groundwater effluent limitation, the department may take into account factors, including but not limited to analytical detectability and treatability.

(3) Where these factors indicate that achieving a groundwater effluent limitation as set forth in paragraphs (1) and (2) of this subdivision would be clearly unreasonable, the department may substitute a modified effluent limitation.

(4) A groundwater effluent limitation for the total of organic substances that have a groundwater standard in Table 1 of section 703.5(f) of this Title or a groundwater guidance value derived pursuant to section 702.15(a) of this Part shall be established at 100 ug/L. However, substances that have a groundwater standard or guidance value or groundwater effluent limitation of 100 ug/L or greater shall not be included in this total.

Historical Note

Sec. filed Aug. 2, 1991; amds. filed Feb. 10, 1998; March 22, 1999; July 16, 1999 eff. Aug. 4, 1999. Amended (c)(2).

§ 702.17 Variances to effluent limitations based on standards and guidance values.

(a) The department may grant, to an applicant for a SPDES permit or to a SPDES permittee, a variance to a water quality-based effluent limitation or groundwater effluent limitation included in a SPDES permit.

(1) A variance applies only to the permittee identified in such variance and only to the pollutant specified in the variance. A variance does not affect or require the department to modify a corresponding standard or guidance value. A variance does not affect or require the department to modify a corresponding groundwater effluent limitation for the groundwater as a whole.

(2) A variance shall not apply to a new or recommencing discharger in the Great Lakes System unless the proposed discharge is a temporary one that is necessary to alleviate an imminent and substantial danger to the public health or the environment that is greater than the danger from not achieving the standard or guidance value. For

the purpose of this Part, an imminent and substantial danger to the public health or the environment shall include, but not be limited to, a significant threat to the environment as defined in Part 375 of this Title.

(3) A variance shall not be granted that would likely jeopardize the continued existence of any endangered or threatened species or result in the destruction or adverse modification of such species' critical habitat.

(4) A variance shall not be granted if standards or guidance values will be attained by implementing effluent limits required under section 754.1 (a)(1) and (2) of this Title and by the permittee implementing cost-effective and reasonable best management practices for nonpoint source control.

(5) A variance term shall not exceed the term of the SPDES permit. Where the term of the variance is the same as the permit, the variance shall stay in effect until the permit is reissued, modified or revoked.

(b) A variance may be granted if the requester demonstrates that achieving the effluent limitation is not feasible because:

(1) naturally occurring pollutant concentrations prevent attainment of the standard or guidance value;

(2) natural, ephemeral, intermittent or low flow conditions or water levels prevent attainment, unless these conditions may be compensated for by the discharge of sufficient volume of effluent to enable the standard or guidance value to be met without violating water conservation requirements;

(3) human-caused conditions or sources of pollution prevent attainment of the standard or guidance value and cannot be remedied or would cause more environmental damage to correct than to leave in place;

(4) dams, diversions or other types of hydrologic modifications preclude attainment of the standard or guidance value, and it is not feasible to restore the waterbody to its original condition or to operate such modification in a way that would result in such attainment;

(5) physical conditions related to the natural features of the waterbody, such as the lack of a proper substrate cover, flow, depth, pools, riffles and the like, unrelated to chemical water quality, preclude attainment of the standard or guidance value; or

(6) controls more stringent than those required by section 754.1 (a)(1) and (2) of this Title would result in substantial and widespread economic and social impact.

(c) In addition to the requirements of subdivision (b) of this section, the requestor shall also characterize, using adequate and sufficient data and principles, any increased risk to human health and the environment associated with granting the variance compared with attainment of the standard or guidance value absent the variance, and demonstrate to the satisfaction of the department that the risk will not adversely affect the public health, safety and welfare.

(d) The requestor shall submit a written application for a variance to the department. The application shall include:

(1) all relevant information demonstrating that achieving the effluent limitation is not feasible based on subdivision (b) of this section; and

(2) all relevant information demonstrating compliance with the conditions in subdivision (c) of this section.

(e) Where a request for a variance satisfies the requirements of this section, the department shall authorize the variance through the SPDES permit. The variance request shall be available to the public for review during the public notice period for the permit. The permit shall contain all conditions needed to implement the variance. Such conditions shall, at minimum, include:

(1) compliance with an initial effluent limitation that, at the time the variance is granted, represents the level currently achievable by the requestor, and that is no less stringent than that achieved under the previous permit where applicable;

(2) that reasonable progress be made toward achieving the effluent limitation based on the standard or guidance value, including, where reasonable, an effluent limitation more stringent than the initial effluent limitation;

(3) additional monitoring, biological studies and pollutant minimization measures as deemed necessary by the department;

(4) when the duration of a variance is shorter than the duration of a permit, compliance with an effluent limitation sufficient to meet the underlying standard or guidance value, upon the expiration of the variance; and

(5) a provision that allows the department to reopen and modify the permit for revisions to the variance.

(f) The department shall deny a variance request if the requestor fails to make the demonstrations required under subdivisions (b) and (c) of this section.

(g) A variance may be renewed, subject to the requirements of this section. As part of any renewal application, the permittee shall again demonstrate that achieving the effluent limitation is not feasible based on the requirements of this section. The permittee's application shall also contain information concerning its compliance with the conditions incorporated into its permit as part of the original variance pursuant to subdivisions (b) and (c) of this section. Renewal of a variance may be denied if the permittee did not comply with the conditions of the original variance.

(h) Where the department determines that a multiple discharge variance is necessary to address widespread standard or guidance value attainment issues including the presence of a ubiquitous pollutant or naturally high levels of a pollutant in a watershed, the department, in lieu of the discharger, may conduct the variance demonstration requirements in subdivisions (b) and (c) of this section. Any permittee accepting such variance shall be

subject to the provisions of subdivision (e) of this section.

(i) The department will make available to the public a list of every variance that has been granted and that remains in effect.

Historical Note
Sec. filed Aug. 2, 1991; repealed, new filed Feb. 10, 1998 eff. 30 days after filing.

§ 702.18 More stringent groundwater effluent limitations.

(a) The department, after consultation with the New York State Department of Health, may establish, on a case-by-case basis, more stringent effluent limitations than those set forth in section 703.6 of this Title or established by section 702.16(c)(1) of this Part, where necessary, to prevent pollution and protect the groundwaters for their best usages. The department shall consider rules and regulations promulgated by the administrator or the New York State Department of Health in establishing such limitations. Additionally, the department shall consider action levels for compounds determined to exhibit toxic effects which are established by the Commissioner of the New York State Department of Health.

(b) Circumstances under which the department may consider more stringent effluent limitations include but are not limited to the following:

(1) a discharge to an aquifer that is the sole or principal source of potable water supply;

(2) an existing or proposed discharge that is directly on or into consolidated rock or bedrock;

(3) a discharge containing one or more substances that in combination with precipitation and/or natural soil constituents is likely to produce a toxic pollutant; or

(4) where adverse cumulative or synergistic effects can be established for constituents in a discharge.

Historical Note
Sec. filed Aug. 2, 1991; amds. filed Feb. 10, 1998;
July 16, 1999 eff. Aug. 4, 1999. Amended (b).

§ 702.19 Modifications of groundwater effluent limitations.

(a) (1) An applicant for a SPDES permit or a SPDES permittee may make written application for a modification of a groundwater effluent limitation listed in Table 3 of section 703.6(e) of this Title or established pursuant to section 702.16(c)(1) of this Part.

(2) Such applicant shall have the burden of establishing to the satisfaction of the commissioner, that one or more of the effluent limitations are unnecessarily restrictive as to a particular discharge in that such modification would, notwithstanding noncompliance with such limitations, prevent pollution and protect the groundwaters for their best usages.

(b) Where a request for a modification of a groundwater effluent limitation satisfies the

requirements of this section, the department shall authorize the modification through the SPDES permit. The modification request shall be available to the public for review during the public notice period for the permit. The permit shall contain all conditions needed to implement the modification.

Historical Note
Sec. filed Aug. 2, 1991; amds. filed Feb. 10, 1998;
Mar. 22, 1999 eff. April 7, 1999. Amended (a)(1), (b).

§ 702.20 Studies and monitoring for discharges to groundwater.

(a) The department may require the submission of information by any person responsible for a discharge in order that the department may evaluate the short- and long-term effect the discharge may have on groundwaters of the State or for the purpose of determining additional (section 702.15[a] of this Part) or more stringent (section 702.18 of this Part) effluent limitations or modifications (section 702.19 of this Part) thereto. Such information may include but is not limited to the following:

(1) a statement of the property to be affected by a discharge and the extent to which such property is under the control of the person responsible for such discharge;

(2) a geohydrologic analysis of the aquifers that may be affected;

(3) a determination of the direction and rate of movement of the discharge and the natural groundwater;

(4) an evaluation of adverse effects a discharge may have on any aquifer, source of potable water supply, or other surface waters or groundwaters of the State; and

(5) an evaluation of the ability of unconsolidated deposits, consolidated rock or bedrock and the groundwaters to attenuate potential pollutants such that the best usage of the groundwaters is maintained.

(b) The department may require the installation and operation of monitoring facilities in order to assure compliance with effluent limitations or to evaluate the effect of the discharge on the quality of the groundwater. Specific monitoring requirements shall be established by the department on a case-by-case basis and as may be required by Part 756 of this Title.

Historical Note
Sec. filed Aug. 2, 1991; amd. filed Feb. 10, 1998 eff. 30 days after filing.

§ 702.21 Exceptions to groundwater effluent limitations.

(a) *Activities and conditions.* The effluent limitations set forth in section 703.6 of this Title or established pursuant to section 702.16(c)(1) of this Part for discharges to Class GA waters are not applicable to the following activities:

(1) the discharge of sewage without the admixture of industrial waste or other wastes where:

(i) a disposal system, point source or outlet consists of a subsurface sewage disposal system designed, constructed and maintained in accordance with guidelines and standards satisfactory to the department;

(ii) monitoring facilities are utilized in accordance with requirements as may be specified by the department; and

(iii) the disposal system is designed to discharge, and discharges, less than 30,000 gallons per day;

(2) normally accepted agricultural practice of utilizing chemicals and fertilizers for growing of crops for human and animal consumption; and

(3) waste management systems that employ land application techniques and have renovative capabilities provided it has been demonstrated to the satisfaction of the commissioner that:

(i) there will be no actual or potential public health hazard;

(ii) applicable water quality standards will be met in saturated zones; and

(iii) applicable water quality standards will not be contravened in any adjacent waters of the State.

(b) Nothing contained in this section shall be construed to allow any discharge that would preclude the best usage of Class GA waters specified in section 701.15 of this Title.

Historical Note
Sec. filed Aug. 2, 1991; amd. filed Feb. 10, 1998 eff. 30 days after filing.

§ 702.22 Severability.

If any provision of this Part or its application to any person or circumstance is held to be invalid, the remainder of this Part and the application of that provision to other persons or circumstances will not be affected.

Historical Note
Sec. filed Aug. 2, 1991 eff. 30 days after filing.

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Part 703 [1/1]. *This regulation became effective in 1967 and was last amended August 1999.*

Available DEC Guidance: The Division of Water Technical and Operational Guidance Series (TOGS 1.1.1, TOGS 1.1.3, TOGS 1.1.4, TOGS 1.1.5)

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PART 703

SURFACE WATER AND GROUNDWATER QUALITY STANDARDS AND GROUNDWATER EFFLUENT LIMITATIONS

(Statutory authority: Environmental Conservation Law, §§ 3-0301[2][m], 15-0313, 17-0301, 17-0809)

Sec.

703.1 Substance form
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703.5 Water quality standards for taste-, color- and odor-producing, toxic and other deleterious substances
703.6 Groundwater effluent limitations for discharges to Class GA waters
703.7 Severability

Historical Note
Part (§§ 703.1-703.4) filed March 20, 1967; repealed, new filed April 28, 1972; repealed, new (§§ 703.1 -703.11) filed Aug. 2, 1978; repealed, new (§§ 703.1-703.7) filed Aug. 2, 1991; amd. filed July 16, 1999 eff. Aug. 4, 1999. Amended Part title.

§ 703.1 Substance form.

A water quality standard, guidance value or groundwater effluent limitation includes all (total) forms of the substance, unless indicated otherwise. Where a standard or guidance value is for a specific form of the substance, water quality-based effluent limitations for SPDES permits may include other forms of the substance to account for changes in the substance that occur in the receiving water.

Historical Note
Sec. filed March 20, 1967; repealed, new filed: April 28, 1972; Aug. 2, 1978; Aug. 2, 1991; amd. filed July 16, 1999 eff. Aug. 4, 1999.

§ 703.2 Narrative water quality standards.

Narrative standards for specific water classes are provided in this section. Narrative standards for classes N and AA-Special are provided in Part 701 of this Title.

Parameter	*Classes*	*Standard*
Taste-, color-, and odor-producing, toxic and other deleterious substances	AA, A, B, C, D, SA, SB, SC, I, SD, A-Special, GA, GSA, GSB	None in amounts that will adversely affect the taste, color or odor thereof, or impair the waters for their best usages.
Turbidity	AA, A, B, C, D, SA, SB, SC, I, SD	No increase that will cause a substantial visible contrast to natural conditions.
Suspended, colloidal and settleable solids	AA, A, B, C, D, SA, SB, SC, I, SD, A-Special	None from sewage, industrial wastes or other wastes that will cause deposition or impair the waters for their best usages.
Oil and floating substances	AA, A, B, C, D, SA, SB, SC, I, SD, A-Special	No residue attributable to sewage, industrial wastes or other wastes, nor visible oil film nor globules of grease.
Garbage, cinders, ashes, oils, sludge and other refuse	SA, SB, SC, I, SD	None in any amounts.
Phosphorus and nitrogen	AA, A, B, C, D, SA, SB, SC, I, SD, A-Special	None in amounts that will result in growths of algae, weeds and slimes that will impair the waters for their best usages.
Radioactivity	A-Special	Should be kept at the lowest practicable levels, and in any event should be controlled to the extent necessary to prevent harmful effects on health.
Thermal discharges	GA, GSA, GSB	None in amounts that will impair the waters for their best usages.
Thermal discharges	AA, A, B, C, D, SA, SB, SC, I, SD, A-Special	See Part 704 of this Title.

Historical Note
Sec. filed March 20, 1967; repealed, new filed: April 28, 1972; Aug. 2, 1978; Aug. 2, 1991 eff. 30 days after filing.

§ 703.3 Water quality standards for pH, dissolved oxygen, dissolved solids, odor, color and turbidity.

Standards for specific classes are provided in this section.

Parameter	*Classes*	*Standard*
pH	AA, A, B, C, AA-Special, A-Special, GA	Shall not be less than 6.5 nor more than 8.5.
	D	Shall not be less than 6.0 nor more than 9.5.
	SA, SB, SC, I, SD	The normal range shall not be extended by more than one-tenth (0.1) of a pH unit.
Dissolved oxygen (DO)	A-Special	In rivers and upper waters of lakes, not less than 6.0 mg/L at any time. In hypolimnetic waters, it should not be less than necessary for the support of fishlife, particularly cold water species.
	AA, A, B, C, AA-Special	For cold waters suitable for trout spawning, the DO concentration shall not be less than 7.0 mg/L from other than natural conditions. For trout waters, the minimum daily average shall not be less than 6.0 mg/L, and at no time shall the concentration be less than 5.0 mg/L. For nontrout waters, the minimum daily average shall not be less than 5.0 mg/L, and at no time shall the DO concentration be less than 4.0 mg/L.
	D, SD	Shall not be less than 3.0 mg/L at any time.
	SA, SB, SC	Shall not be less than 5.0 mg/L at any time.
	I	Shall not be less than 4.0 mg/L at any time.
Dissolved solids	A-Special AA, A, B, C, AA-Special, GA	Shall not exceed 200 mg/L. Shall be kept as low as practicable to maintain the best usage of waters but in no case shall it exceed 500 mg/L.
Odor	GA	Shall not exceed a threshold odor number of 3.
Color	GA	Shall not exceed 15 color units (platinum-cobalt method).
Turbidity	GA	Shall not exceed 5 nephelometric units.

Historical Note
Sec. filed March 20, 1967; repealed, new filed: April 28, 1972; Aug. 2, 1978; Aug. 2, 1991 eff. 30 days after filing.

§ 703.4 Water quality standards for coliforms.

Total and fecal coliform standards for specific classes are provided in this section.

(a) Total coliforms (number per 100 ml).

Classes	*Standard*
AA	The monthly median value and more than 20 percent of the samples, from a minimum of five examinations, shall not exceed 50 and 240, respectively.
A, B, C, D, SB, SC	The monthly median value and more than 20 percent of the samples, from a minimum of five examinations, shall not exceed 2,400 and 5,000, respectively.
SA	The median most probable number (MPN) value in any series of representative samples shall not be in excess of 70.
I	The monthly geometric mean, from a minimum of five examinations, shall not exceed 10,000.
A-Special	The geometric mean, of not less than five samples, taken over not more than a 30-day period shall not exceed 1,000.
GA	The maximum allowable limit is 50.

(b) Fecal coliforms (number per 100 ml).

Classes	*Standard*
A, B, C, D, SB, SC	The monthly geometric mean, from a minimum of five examinations, shall not exceed 200.
I	The monthly geometric mean, from a minimum of five examinations, shall not exceed 2,000.
A-Special	The geometric mean, of not less than five samples, taken over not more than a 30-day period shall not exceed 200.

(c) The total and fecal coliform standards for classes B, C, D, SB, SC and I shall be met during all periods when disinfection is practiced.

Historical Note

Sec. filed March 20, 1967; repealed, new filed: April 28, 1972; Aug. 2, 1978; amd. filed Nov. 5, 1984; repealed, new filed Aug. 2, 1991; amd. filed Dec. 10, 1993 eff. 30 days after filing. Amended (a).

§ 703.5 Water quality standards for taste-, color- and odor-producing, toxic and other deleterious substances.

(a) Water quality standards for specific substances or groups of substances are listed in Table 1 of subdivision (f) of this section for the applicable water classes. The substance name is listed with the associated Chemical Abstract Service Registry Number (CAS No.) where applicable. For entries in Table 1 of subdivision (f) of this section that refer to chemical groups, congeners or other expressions of multiple substances, the standard applies to the sum of the substances, unless otherwise indicated.

(b) Standards are Health (Water Source), Health (Fish Consumption), Aquatic (Chronic), Aquatic (Acute), Wildlife or Aesthetic based and are respectively designated as H(WS), H (FC), A(C), A(A), W or E in the column headed "Type." Where more than one Type of standard is listed for a water class, the most stringent applies.

(c) The "Basis Code" in Table 1 of subdivision (f) of this section provides a further description of the basis of the standard. A list of basis codes is found in Table 2 of

subdivision (f) of this section.

(d) The standard is the maximum allowable concentration in micrograms per liter (ug/L), unless otherwise noted. A standard defined by the symbol "ND" means not detectable by the analytical tests specified or approved pursuant to Part 700 of this Title.

(e) Special interpretive remarks are provided as necessary.

(f) *Tables.*

Table 1
(cf. section 703.5)

WATER QUALITY STANDARDS
SURFACE WATERS AND GROUNDWATER

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD(ug/L)	TYPE	BASIS CODE
Acenaphthene (83-32-9)	A, A-S, AA, AA-S	20	E	U
Acrolein (107-02-8)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Acrylamide (79-06-1)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Acrylonitrile (107-13-1)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Alachlor (15972-60-8)	A, A-S, AA, AA-S GA	0.5 0.5	H(WS) H(WS)	A A
Aldicarb (116-06-3)	A, A-S, AA, AA-S GA	7 *	H(WS) H(WS)	B
Remark: * Refer to standards for "Aldicarb and Methomyl."				
Aldicarb and Methomyl (116-06-3; 16752-77-5)	GA	0.35*	H(WS)	F
Remark: * Applies to the sum of these substances.				

Aldrin (309-00-2)	GA A, A-S, AA, AA-S, B, C, D SA, SB, SC, SD	ND * *	H(WS) H(FC) H(FC)	F
Remark: * Refer to standards for "Aldrin and Dieldrin."				
Aldrin and Dieldrin (309-00-2; 60-57-1)	A, A-S, AA, AA-S, B, C, D SA, SB, SC, SD	0.001 0.001	H(FC) H(FC)	
Remark: * Applies to the sum of these substances.				
Alkyldimethyl benzyl ammonium chloride (68391-01-5)	A, A-S, AA, AA-S, B, C	*	A(C)	
Remark: * Refer to standards for "Quaternary ammonium compounds."				

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD(ug/L)	TYPE	BASIS CODE
Allyl chloride (107-05-1)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Aluminum, ionic (CAS No. Not Applicable)	A, A-S, AA, AA-S, B, C	100*	A(C)	
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) of this Title.				
Ametryn (834-12-8)	GA	50	H(WS)	J
4-Aminobiphenyl (92-67-1)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Aminocresols (95-84-1; 2835-95-2; 2835-99-6)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C D	* * ** **	E E E E	
Remarks: * Refer to standards for "Phenolic compounds (total phenols)." ** Refer to standards for "Phenols, total unchlorinated."				
3-Aminotoluene (108-44-1)	GA	*	H(WS)	J

Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
4-Aminotoluene (106-49-0)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Ammonia and Ammonium	A, A-S, AA, AA-S	2,000*	H(WS)	H
(7664-41-7; CAS No.	GA	2,000*	H(WS)	H
Not Applicable)	A, A-S, AA, AA-S, B, C	**	A(C)	
	D	**	A(A)	

Remarks: * NH_3 + NH_4^+ as N.

** Un-ionized ammonia as NH_3; tables below provide the standard in ug/L at varying pH and temperature for different classes and specifications. Linear interpolation between the listed pH values and temperatures is applicable.

Classes A, A-S, AA, AA-S, B, C with the (T) or (TS) Specification

pH	0C	5C	10C	15-30C
6.50	0.7	0.9	1.3	1.9
6.75	1.2	1.7	2.3	3.3
7.00	2.1	2.9	4.2	5.9
7.25	3.7	5.2	7.4	11
7.50	6.6	9.3	13	19
7.75	11	15	22	31
8.0-9.0	13	18	25	35

Classes A, A-S, AA, AA-S, B, C without the (T) or (TS) Specification

pH	0C	5C	10C	15C	20-30C
6.50	0.7	0.9	1.3	1.9	2.6
6.75	1.2	1.7	2.3	3.3	4.7
7.00	2.1	2.9	4.2	5.9	8.3
7.25	3.7	5.2	7.4	11	15
7.50	6.6	9.3	13	19	26
7.75	11	15	22	31	43
8.0-9.0	13	18	25	35	50

Class D

pH	0C	5C	10C	15C	20C	25-30C
6.50	9.1	13	18	26	36	51
6.75	15	21	30	42	59	84
7.00	23	33	46	66	93	131
7.25	34	48	68	95	140	190
7.50	45	64	91	130	180	260
7.75	56	80	110	160	220	320
8.0-9.0	65	92	130	180	260	370

Table 1

(cf. section 703.5)

(Continued)

WATER QUALITY STANDARDS

SURFACE WATERS AND GROUNDWATER

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	TYPE	BASIS CODE
Aniline	A, A-S, AA, AA-S	5	H(WS)	I
(62-53-3)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Antimony	A, A-S, AA, AA-S	3	H(WS)	B
(CAS No. Not Applicable)	GA	3	H(WS)	B
Arsenic	A, A-S, AA, AA-S	50	H(WS)	G
(CAS No. Not Applicable)	GA	25	H(WS)	F
	A, A-S, AA, AA-S, B, C	150*	A(C)	
	A, A-S, AA, AA-S, B, C, D	340*	A(A)	
	SA, SB, SC	63*	A(C)	
	SD	120*	A(A)	
Remark: * Dissolved arsenic form.				
Asbestos	A, A-S, AA, AA-S	*	H(WS)	G
(CAS No. Not Applicable)	GA	*	H(WS)	G
Remark: * 7,000,000 fibers (longer than 10 um)/L				
Atrazine	GA	7.5	H(WS)	F
(1912-24-9)				
Azinphosmethyl	GA	4.4	H(WS)	F
(86-50-0)	A, A-S, AA, AA-S, B, C	0.005*	A(C)	
	SA, SB, SC	0.01	A(C)	
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) of this Title.				

Azobenzene (103-33-3)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Barium (CAS No. Not Applicable)	A, A-S, AA, AA-S GA	1,000 1,000	H(WS) H(WS)	G F
Benefin (1861-40-1)	GA	35	H(WS)	F
Benzene (71-43-2)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD	1 1 10 10	H(WS) H(WS) H(FC) H(FC)	A A A A
Benzidine (92-87-5)	GA A, A-S, AA, AA-S, B, C D	* 0.1** 0.1**	H(WS) A(C) A(A)	J
Remarks: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance. ** For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) and (d) of this Title.				
Benzo(a)pyrene (50-32-8)	GA	ND	H(WS)	F
Beryllium (CAS No. Not Applicable)	A, A-S, AA, AA-S, B, C	*	A(C)	
Remark: * 11 ug/L, when hardness is less than or equal to 75 ppm; 1,100 ug/L when hardness is greater than 75 ppm. * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) of this Title. Aquatic Type standards apply to acid-soluble form.				
1,1'-Biphenyl (92-52-4)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Bis(2-chloroethoxy)methane (111-91-1)	GA	*	H(WS)	J

Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Bis(2-chloroethyl)ether (111-44-4)	GA	1.0	H(WS)	F
Bis(chloromethyl)ether (542-88-1)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Bis(2-chloro-1-methylethyl)ether (108-60-1)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Bis(2-ethylhexyl)phthalate (117-81-7)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C	5 5 0.6	H(WS) H(WS) A(C)	A A
Boron (CAS No. Not Applicable)	GA A, A-S, AA, AA-S, B, C SA, SB, SC	1,000 10,000* 1,000	H(WS) A(C) A(C)	H
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) of this Title. Aquatic Type standards apply to acid-soluble form.				
Bromacil (314-40-9)	GA	4.4	H(WS)	F
Bromobenzene (108-86-1)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Bromochloromethane (74-97-5)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Bromomethane (74-83-9)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Butachlor (23184-66-9)	GA	3.5	H(WS)	F

cis-2-Butenal (15798-64-8)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
trans-2-Butenal (123-73-9)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
cis-2-Butenenitrile (1190-76-7)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
trans-2-Butenenitrile (627-26-9)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Butylate (2008-41-5)	GA	50	H(WS)	J
n-Butylbenzene (104-51-8)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
sec-Butylbenzene (135-98-8)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
tert-Butylbenzene (98-06-6)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Cadmium (CAS No. Not Applicable)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C A, A-S, AA, AA-S, B, C, D SA, SB, SC, I SD	5 5 * ** 7.7 21	H(WS) H(WS) A(C) A(A) A(C) A(A)	B,G B,G

Remarks: * (0.85) exp(0.7852 [ln (ppm hardness)] - 2.715) ** (0.85) exp(1.128 [ln (ppm hardness)] - 3.6867) Aquatic Type standards apply to dissolved form.				
Captan (133-06-2)	GA	18	H(WS)	F
Carbaryl (63-25-2)	GA	29	H(WS)	F
Carbofuran (1563-66-2)	A, A-S, AA, AA-S A, A-S, AA, AA-S, B, C D	15 1.0* 10*	H(WS) A(C) A(A)	B
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) and (d) of this Title.				
Carbon tetrachloride (56-23-5)	GA	5	H(WS)	F
Carboxin (5234-68-4)	GA	50	H(WS)	J
Chloramben (CAS No. Not Applicable)	GA	50*	H(WS)	J
Remark: * Includes: related forms that convert to the organic acid upon acidification to a pH of 2 or less; and esters of the organic acid.				
Chloranil (118-75-2)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Chlordane (57-74-9)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD	0.05 0.05 2×10^{-5} 2×10^{-5}	H(WS) H(WS) H(FC) H(FC)	A A A A
Chloride (CAS No. Not Applicable)	A, A-S, AA, AA-S GA	250,000 250,000	H(WS) H(WS)	H H

Chlorinated dibenzo-p-	A, A-S, AA, AA-S	7×10^{-7}*	H(WS)	A
dioxins and Chlorinated	GA	7×10^{-7}*	H(WS)	A
dibenzofurans	A, A-S, AA, AA-S, B, C, D	6×10^{-10}*	H(FC)	A
(CAS No. Not applicable)	SA, SB, SC, I, SD	6×10^{-10}*	H(FC)	A
	A, A-S, AA, AA-S, B, C, D	3.1×10^{-9}**	W	
	SA, SB, SC, I, SD	3.1×10^{-9}**	W	

Remarks: * Value is for the total of the chlorinated dibenzo-p-dioxins and chlorinated dibenzofurans that are listed in the table below as equivalents of 2,3,7,8-tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD).

The 2,3,7,8-TCDD equivalent for a congener for the H(WS) standards is obtained by multiplying the concentration of that congener by its Toxicity Equivalency Factor (TEF) from the table below.

The 2,3,7,8-TCDD equivalent for a congener for the H(FC) standards is obtained by multiplying the concentration of that congener by its TEF and its Bioaccumulation Equivalency Factor (BEF) from the table below.

** Applies only to 2,3,7,8-TCDD

CONGENER	TEF	BEF
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1	1
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	0.9
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.1	0.3
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.1	0.1
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.1	0.1
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.01	0.05
Octachlorodibenzo-p-dioxin	0.001	0.01
2,3,7,8-Tetrachlorodibenzofuran	0.1	0.8
1,2,3,7,8-Pentachlorodibenzofuran	0.05	0.2
2,3,4,7,8-Pentachlorodibenzofuran	0.5	1.6
1,2,3,4,7,8-Hexachlorodibenzofuran	0.1	0.08
1,2,3,6,7,8-Hexachlorodibenzofuran	0.1	0.2
2,3,4,6,7,8-Hexachlorodibenzofuran	0.1	0.7
1,2,3,7,8,9-Hexachlorodibenzofuran	0.1	0.6
1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.01	0.01
1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.01	0.4
Octachlorodibenzofuran	0.001	0.02

Chlorine, Total Residual (CAS No. Not Applicable)	A, A-S, AA, AA-S, B, C D SA, SB, SC, I SD	5 19 7.5 13	A(C) A(A) A(C) A(A)	
2-Chloroaniline (95-51-2)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
3-Chloroaniline (108-42-9)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
4-Chloroaniline (106-47-8)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Chlorobenzene (108-90-7)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D SA,SB, SC, I, SD A, A-S, AA, AA-S, B, C A, A-S, AA, AA-S D	5 * 400 400 5 20 50	H(WS) H(WS) H(FC) H(FC) A(C) E E	I J B B U V
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
4-Chlorobenzotrifluoride (98-56-6)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1-Chlorobutane (109-69-3)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Chloroethane (75-00-3)	GA	*	H(WS)	J

Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Chloroform (67-66-3)	A, A-S, AA, AA-S GA	7 7	H(WS) H(WS)	A A
Chloromethyl methyl ether (107-30-2)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2-Chloronaphthalene (91-58-7)	A, A-S, AA, AA-S	10	E	U
2-Chloronitrobenzene (88-73-3)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
3-Chloronitrobenzene (121-73-3)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
4-Chloronitrobenzene (100-00-5)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Chloroprene (126-99-8)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Chlorothalonil (1897-45-6)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2-Chlorotoluene (95-49-8)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
3-Chlorotoluene (108-41-8)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				

4-Chlorotoluene (106-43-4)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
4-Chloro-o-toluidine (95-69-2)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
5-Chloro-o-toluidine (95-79-4)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
3-Chloro-1,1,1-trifluoropropane (460-35-5)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Chromium (CAS No. Not Applicable)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C A, A-S, AA, AA-S, B, C, D	50 50 * **	H(WS) H(WS) A(C) A(A)	G G
Remarks: * (0.86) exp(0.819 [ln (ppm hardness)] + 0.6848) ** (0.316) exp(0.819 [ln (ppm hardness)] + 3.7256) Aquatic Type standards apply to dissolved form and do not include hexavalent chromium.				
Chromium (hexavalent) (CAS No. Not Applicable)	GA A, A-S, AA, AA-S, B, C A, A-S, AA, AA-S, B, C, D SA, SB, SC SD	50 11* 16* 54** 1,200**	H(WS) A(C) A(A) A(C) A(A)	F
Remarks: * Applies to dissolved form. ** Applies to acid-soluble form.				
Cobalt (CAS No. Not Applicable)	A, A-S, AA, AA-S, B, C	5*	A(C)	

Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) of this Title. Aquatic Type standards apply to acid-soluble form.				
Copper (CAS No. Not Applicable)	A, A-S, AA, AA-S	200	H(WS)	H
	GA	200	H(WS)	H
	A, A-S, AA, AA-S, B, C	*	A(C)	
	A, A-S, AA, AA-S, B, C, D	**	A(A)	
	SA, SB, SC, I	***	A(C)	
	SA, SB, SC, I, SD	****	A(A)	
Remarks: * (0.96) exp(0.8545 [ln (ppm hardness)] - 1.702) ** (0.96) exp(0.9422 [ln (ppm hardness)] - 1.7) *** Standard is 3.4 ug/L except in New York/New Jersey Harbor where it is 5.6 ug/L. **** Standard is 4.8 ug/L except in New York/New Jersey Harbor where it is 7.9 ug/L. Aquatic Type standards apply to dissolved form.				
Cyanide (CAS No. Not Applicable)	A, A-S, AA, AA-S	200	H(WS)	B
	GA	200	H(WS)	B
	A, A-S, AA-S, B, C, D	9,000	H(FC)	B
	SA, SB, SC, I, SD	9,000	H(FC)	B
	A, A-S, AA, AA-S, B, C	5.2*	A(C)	
	A, A-S, AA, AA-S, B, C, D	22*	A(A)	
	SA, SB, SC	1.0*	A(C)	
	SD	1.0*	A(A)	
Remark: * As free cyanide: the sum of HCN and CN^- expressed as CN.				
Cyanogen bromide (506-68-3)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Cyanogen chloride (506-77-4)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				

Dalapon (CAS No. Not Applicable)	GA	50*	H(WS)	J
Remark: * Includes: related forms that convert to the organic acid upon acidification to a pH of 2 or less; and esters of the organic acid.				
p,p'-DDD (72-54-8)	A, A-S, AA, AA-S	0.3	H(WS)	A
	GA	0.3	H(WS)	A
	A, A-S, AA, AA-S, B, C, D	8×10^{-5}	H(FC)	A
	SA, SB, SC, I, SD	8×10^{-5}	H(FC)	A
	A, A-S, AA, AA-S, B, C, D	*	W	
	SA, SB, SC, I, SD	*	W	
Remark: * See standard for p,p'-DDT.				
p,p'-DDE (72-55-9)	A, A-S, AA, AA-S	0.2	H(WS)	A
	GA	0.2	H(WS)	A
	A, A-S, AA, AA-S, B, C, D	7×10^{-6}	H(FC)	A
	SA, SB, SC, I, SD	7×10^{-6}	H(FC)	A
	A, A-S, AA, AA-S, B, C, D	*	W	
	SA, SB, SC, I, SD	*	W	
Remark: * See standard for p,p'-DDT.				
p,p'-DDT (50-29-3)	A, A-S, AA, AA-S	0.2	H(WS)	A
	GA	0.2	H(WS)	A
	A, A-S, AA, AA-S, B, C, D	1×10^{-5}	H(FC)	A
	SA, SB, SC, I, SD	1×10^{-5}	H(FC)	A
	A, A-S, AA, AA-S, B, C, D	1.1×10^{-5}*	W	
	SA, SB, SC, I, SD	1.1×10^{-5}*	W	
Remark: * Applies to the sum of p,p'-DDD, p,p'-DDE and p,p'-DDT				
Dechlorane Plus (13560-89-9)	A, A-S, AA, AA-S	5	H(WS)	I
	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				

Demeton (8065-48-3; 298-03-3; 126-75-0)	A, A-S, AA, AA-S, B, C SA, SB, SC	0.1* 0.1	A(C) A(C)	
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) of this Title. Standards apply to the sum of these substances.				
Diazinon (333-41-5)	GA A, A-S, AA, AA-S, B, C	0.7 0.08*	H(WS) A(C)	F
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) of this Title.				
1,2-Dibromobenzene (583-53-9)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,3-Dibromobenzene (108-36-1)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,4-Dibromobenzene (106-37-6)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,2-Dibromo-3-chloropropane (96-12-8)	A, A-S, AA, AA-S GA	0.04 0.04	H(WS) H(WS)	A A
Dibromodichloromethane (594-18-3)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Dibromomethane (74-95-3)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Di-n-butyl phthalate (84-74-2)	GA	50	H(WS)	J
Dicamba (1918-00-9)	GA	0.44	H(WS)	F

Dichlorobenzenes (95-50-1; 541-73-1; 106-46-7)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C A, A-S, AA, AA-S D	3* 3* 5** 20***/30**** 50**	H(WS) H(WS) A(C) E E	A A U V
Remarks: * Applies to each isomer (1,2-,1,3- and 1,4-dichlorobenzene) individually. ** Applies to the sum of 1,2-, 1,3- and 1,4-dichlorobenzene. For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) of this Title. *** Applies to 1,3-dichlorobenzene only. **** Applies to 1,4-dichlorobenzene only.				
3,3'-Dichlorobenzidine (91-94-1)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
3,4-Dichlorobenzotrifluoride (328-84-7)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
cis-1,4-Dichloro-2-butene (1476-11-5)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
trans-1,4-Dichloro-2-butene (110-57-6)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Dichlorodifluoromethane (75-71-8)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,1-Dichloroethane (75-34-3)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				

1,2-Dichloroethane (107-06-2)	A, A-S, AA, AA-S GA	0.6 0.6	H(WS) H(WS)	A A
1,1-Dichloroethene (75-35-4)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
cis-1,2-Dichloroethene (156-59-2)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
trans-1,2-Dichloroethene (156-60-5)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Dichlorofluoromethane (75-43-4)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,4-Dichlorophenol (120-83-2)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D	0.3* ** ***	E E E	U
Remarks: * Also see standards for "Phenolic compounds (total phenols)." ** Refer to standards for "Phenolic compounds (total phenols)." *** Refer to standards for "Phenols, total chlorinated."				
2,4-Dichlorophenoxyacetic acid (94-75-7)	A, A-S, AA, AA-S GA	50 50	H(WS) H(WS)	G G
1,1-Dichloropropane (78-99-9)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,2-Dichloropropane (78-87-5)	A, A-S, AA, AA-S GA	1 1	H(WS) H(WS)	A A
1,3-Dichloropropane (142-28-9)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J

Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,2-Dichloropropane	A, A-S, AA, AA-S	5	H(WS)	I
(594-20-7)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,3-Dichloropropene	A, A-S, AA, AA-S	0.4*	H(WS)	A
(542-75-6)	GA	0.4*	H(WS)	A
Remark: * Applies to the sum of cis- and trans-1,3-dichloropropene, CAS Nos. 10061-01-5 and 10061-02-6, respectively.				
2,3-Dichlorotoluene	A, A-S, AA, AA-S	5	H(WS)	I
(32768-54-0)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,4-Dichlorotoluene	A, A-S, AA, AA-S	5	H(WS)	I
(95-73-8)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,5-Dichlorotoluene	A, A-S, AA, AA-S	5	H(WS)	I
(19398-61-9)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,6-Dichlorotoluene	A, A-S, AA, AA-S	5	H(WS)	I
(118-69-4)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
3,4-Dichlorotoluene	A, A-S, AA, AA-S	5	H(WS)	I
(95-75-0)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
3,5-Dichlorotoluene	A, A-S, AA, AA-S	5	H(WS)	I
(25186-47-4)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				

Dieldrin (60-57-1)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD A, A-S, AA, AA-S, B, C A, A-S, AA, AA-S, B, C, D	0.004 0.004 6×10^{-7} 6×10^{-7} 0.056 0.24	H(WS) H(WS) H(FC) H(FC) A(C) A(A)	A A A A
Di(2-ethylhexyl)adipate (103-23-1)	A, A-S, AA, AA-S GA	20 20	H(WS) H(WS)	A A
1,2-Difluoro-1,1,2,2-tetrachloroethane (76-12-0)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,2-Diisopropylbenzene (577-55-9)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,3-Diisopropylbenzene (99-62-7)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,4-Diisopropylbenzene (100-18-5)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
N,N-Dimethylaniline (121-69-7)	A, A-S, AA, AA-S GA	1 1	H(WS) H(WS)	A A
2,3-Dimethylaniline (87-59-2)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,4-Dimethylaniline (95-68-1)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				

2,5-Dimethylaniline (95-78-3)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,6-Dimethylaniline (87-62-7)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
3,4-Dimethylaniline (95-64-7)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
3,5-Dimethylaniline (108-69-0)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
3,3'-Dimethylbenzidine (119-93-7)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
4,4'-Dimethylbibenzyl (538-39-6)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
4,4'-Dimethyldiphenylmethane (4957-14-6)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
alpha, alpha-Dimethyl phenethylamine (122-09-8)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
	A, A-S, AA, AA-S, B, C,	1,000		B

(105-67-9)	D SA, SB, SC, I, SD A, A-S, AA, AA-S GA B, C, D	1,000 * * **	H(FC) E E E	B
Remarks: * Refer to standards for "Phenolic compounds (total phenols)." ** Refer to standard for "Phenols, total unchlorinated."				
Dimethyl tetrachloroterephthalate (1861-32-1)	GA	50	H(WS)	J
1,3-Dinitrobenzene (99-65-0)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,4-Dinitrophenol (51-28-5)	A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD A, A-S, AA, AA-S GA B, C, D	400 400 * * **	H(FC) H(FC) E E E	B B
Remarks: * Refer to standards for "Phenolic compounds (total phenols)." ** Refer to standards for "Phenols, total unchlorinated."				
2,3-Dinitrotoluene (602-01-7)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,4-Dinitrotoluene (121-14-2)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,5-Dinitrotoluene (619-15-8)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				

2,6-Dinitrotoluene (606-20-2)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
3,4-Dinitrotoluene (610-39-9)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
3,5-Dinitrotoluene (618-85-9)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Diphenamid (957-51-7)	GA	50	H(WS)	J
Diphenylamine (122-39-4)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Diphenylhydrazines (122-66-7; 530-50-7)	GA	ND*	H(WS)	F
Remark: * Applies to the sum of 1,1- and 1,2-diphenylhydrazine, CAS Nos. 530-50-7 and 122-66-7, respectively.				
Diquat (2764-72-9)	A, A-S, AA, AA-S GA	20* 20*	H(WS) H(WS)	B B
Remark: * Applies to the concentration of diquat ion whether free or as an undissociated salt.				
Disulfoton (298-04-4)	GA	*	H(WS)	
Remark: * Refer to standards for "Phorate and Disulfoton."				
Dyphylline (479-18-5)	A, A-S, AA, AA-S	50	H(WS)	B
Endosulfan (115-29-7)	A, A-S, AA, AA-S, B, C D SA, SB, SC SD	0.009 0.22* 0.001 0.034	A(C) A(A) A(C) A(A)	
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (d) of this Title.				

Endrin (72-20-8)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D SA, SB, SC, SD A, A-S, AA, AA-S, B, C A, A-S, AA, AA-S, B, C, D	0.2 ND 0.002 0.002 0.036 0.086	H(WS) H(WS) H(FC) H(FC) A(C) A(A)	G F
Endrin aldehyde (7421-93-4)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Endrin ketone (53494-70-5)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Ethylbenzene (100-41-4)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Ethylene dibromide (106-93-4)	A, A-S, AA, AA-S GA	6×10^{-4} 6×10^{-4}	H(WS) H(WS)	A A
Ethylenethiourea (96-45-7)	GA	ND	H(WS)	F
Ferbam (14484-64-1)	GA	4.2	H(WS)	F
Fluometuron (2164-17-2)	GA	50	H(WS)	J
Fluoride (CAS No. Not Applicable)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C D	1,500 1,500 * **	H(WS) H(WS) A(C) A(A)	H F

Remarks: * (0.02) exp(0.907 [ln (ppm hardness)] + 7.394) ** (0.1) exp(0.907 [ln (ppm hardness)] + 7.394) For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) and (d) of this Title.				
Foaming agents (CAS No. Not Applicable)	GA	500*	E	U
Remark: * Determined as methylene blue active substances (MBAS) or by other tests as specified by the Commissioner.				
Folpet (133-07-3)	GA	50	H(WS)	J
Gross alpha radiation (CAS No. Not Applicable)	A, A-S, AA, AA-S GA	* *	H(WS) H(WS)	G G
Remark: * 15 picocuries per liter, excluding radon and uranium.				
Gross beta radiation (CAS No. Not Applicable)	A, AA GA	* *	H(WS) H(WS)	H H
Remark: * 1,000 picocuries per liter, excluding strontium-90 and alpha emitters.				
Heptachlor (76-44-8)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD	0.04 0.04 2×10^{-4} 2×10^{-4}	H(WS) H(WS) H(FC) H(FC)	A A A A
Heptachlor epoxide (1024-57-3)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD	0.03 0.03 3×10^{-4} 3×10^{-4}	H(WS) H(WS) H(FC) H(FC)	A A A A
Hexachlorobenzene (118-74-1)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD	0.04 0.04 3×10^{-5} 3×10^{-5}	H(WS) H(WS) H(FC) H(FC)	A A A A

Hexachlorobutadiene	A, A-S, AA, AA-S	0.5	H(WS)	B
(87-68-3)	GA	0.5	H(WS)	B
	A, A-S, AA, AA-S, B, C, D	0.01	H(FC)	B
	SA, SB, SC, I, SD	0.01	H(FC)	B
	A, A-S, AA, AA-S, B, C	1.0*	A(C)	
	D	10*	A(A)	
	SA, SB, SC	0.3	A(C)	
	SD	3.0	A(A)	
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) and (d) of this Title.				
alpha-Hexachlorocyclohexane	A, A-S, AA, AA-S	0.01	H(WS)	A
(319-84-6)	GA	0.01	H(WS)	A
	A, A-S, AA, AA-S, B, C, D	0.002	H(FC)	A
	SA, SB, SC, I, SD	0.002	H(FC)	A
beta-Hexachlorocyclohexane	A, A-S, AA, AA-S	0.04	H(WS)	A
(319-85-7)	GA	0.04	H(WS)	A
	A, A-S, AA, AA-S, B, C, D	0.007	H(FC)	A
	SA, SB, SC, I, SD	0.007	H(FC)	A
delta-Hexachlorocyclohexane	A, A-S, AA, AA-S	0.04	H(WS)	A
(319-86-8)	GA	0.04	H(WS)	A
	A, A-S, AA, AA-S, B, C, D	0.008	H(FC)	A
	SA, SB, SC, I, SD	0.008	H(FC)	A
epsilon-Hexachlorocyclohexane	A, A-S, AA, AA-S	0.04	H(WS)	A
(6108-10-7)	GA	0.04	H(WS)	A
	A, A-S, AA, AA-S, B, C, D	0.008	H(FC)	A
	SA, SB, SC, I, SD	0.008	H(FC)	A

gamma-Hexachlorocyclohexane (58-89-9)	A, A-S, AA, AA-S	0.05	H(WS)	A
	GA	0.05	H(WS)	A
	A, A-S, AA, AA-S, B, C, D	0.008	H(FC)	A
	SA, SB, SC, I, SD	0.008	H(FC)	A
	A, A-S, AA, AA-S, B, C, D	0.95	A(A)	
Hexachlorocyclopentadiene (77-47-4)	GA	*	H(WS)	J
	A, A-S, AA, AA-S, B, C	0.45**	A(C)	U
	D	4.5**	A(A)	
	SA, SB, SC	0.07	A(C)	
	SD	0.7	A(A)	
	A, A-S, AA, AA-S	1.0	E	

Remarks: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.

** For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) and (d) of this Title.

Hexachloroethane (67-72-1)	A, A-S, AA, AA-S	5	H(WS)	A, I
	GA	*	H(WS)	J
	A, A-S, AA, AA-S, B, C, D	0.6	H(FC)	A
	SA, SB, SC, I, SD	0.6	H(FC)	A

Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.

Hexachlorophene (70-30-4)	GA	*	H(WS)	J
	A, A-S, AA, AA-S	**	E	
	GA	**	E	
	B,C,D	***	E	

Remarks: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.

** Refer to standards for "Phenolic compounds (total phenols)."

*** Refer to standards for "Phenols, total chlorinated."

Hexachloropropene (1888-71-7)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Hexazinone (51235-04-2)	GA	50	H(WS)	J
Hydrazine (302-01-2)	A, A-S, AA, AA-S, B, C D	* **	A(C) A(A)	
Remarks: * 5 ug/L at less than 50 ppm hardness and 10 ug/L at greater than or equal to 50 ppm hardness. ** 50 ug/L at less than 50 ppm hardness and 100 ug/L at greater than or equal to 50 ppm hardness. For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) and (d) of this Title.				
Hydrogen sulfide (7783-06-4)	A, A-S, AA, AA-S, B, C SA, SB, SC	2.0* 2.0	A(C) A(C)	
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) of this Title. Aquatic Type standards apply to undissociated form.				
Hydroquinone (123-31-9)	A, A-S, AA, AA-S, B, C D A, A-S, AA, AA-S GA	2.2** 4.4** * *	A(C) A(A) E E	
Remarks: * Refer to standards for "Phenolic compounds (total phenols)." ** For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) and (d) of this Title.				
Iron (CAS No. Not Applicable)	A, A-S, AA, AA-S, B, C D A, A-S, AA, AA-S GA	300** 300** 300 300*	A(C) A(A) E E	G F
Remarks: * Also see standard for "Iron and Manganese." ** For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) and (d) of this Title.				
Iron and Manganese (CAS No. Not Applicable)	GA	500*	E	F
Remark: * Applies to the sum of these substances; also see individual standards for "Iron" and "Manganese."				

Isodecyl diphenyl phosphate (29761-21-5)	A, A-S, AA, AA-S, B, C D	1.7* 22*	A(C) A(A)	
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) and (d) of this Title.				
Isodrin (465-73-6)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Isopropalin (33820-53-0)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Isopropylbenzene (98-82-8)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2-Isopropyltoluene (527-84-4)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
3-Isopropyltoluene (535-77-3)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
4-Isopropyltoluene (99-87-6)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Isothiazolones, total (isothiazolinones) (includes 5-chloro-2-methyl-4-isothiazolin-3-one & 2-methyl-4-isothiazolin-3-one) (CAS No. Not Applicable)	A, A-S, AA, AA-S, B, C D	1* 10*	A(C) A(A)	

Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) and (d) of this Title.

Standards apply to the sum of these substances.

Kepone (143-50-0)	GA	ND	H(WS)	F
Lead (CAS No. Not Applicable)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C A, A-S, AA, AA-S, B, C, D SA, SB, SC, I SA, SB, SC, I, SD	50 25 * ** 8 204	H(WS) H(WS) A(C) A(A) A(C) A(A)	G F

Remark: * {1.46203 - [ln (hardness) (0.145712)]} exp (1.273 [ln (hardness)] - 4.297)

** {1.46203 - [ln (hardness) (0.145712)]} exp (1.273 [ln (hardness)] - 1.052)

Aquatic Type standards apply to dissolved form.

Linear alkyl benzene sulfonates (LAS) (CAS No. Not Applicable)	A, A-S, AA, AA-S, B, C	40*	A(C)

Remark: * LAS with side chains greater than 13 carbons only; applies to the sum of these substances.

* For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) of this Title.

Magnesium (CAS No. Not Applicable)	A, A-S, AA, AA-S	35,000	H(WS)	B
Malathion (121-75-5)	GA A, A-S, AA, AA-S, B, C SA, SB, SC	7.0 0.1* 0.1	H(WS) A(C) A(C)	F

Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) of this Title.

Mancozeb (8018-01-7)	GA	1.8	H(WS)	F
Maneb (12427-38-2)	GA	1.8	H(WS)	F

Manganese (CAS No. Not Applicable)	A, A-S, AA, AA-S GA	300 300*	E E	G F
Remark: * Also see standards for "Iron and Manganese."				
Mercury (CAS No. Not Applicable)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD A, A-S, AA, AA-S, B, C A, A-S, AA, AA-S, B, C, D A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD	0.7 0.7 7×10^{-4}* 7×10^{-4}* 0.77* 1.4* 0.0026* 0.0026*	H(WS) H(WS) H(FC) H(FC) A(C) A(A) W W	B B B B
Remark * Applies to dissolved form.				
Methacrylonitrile (126-98-7)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Methomyl (16752-77-5)	GA	*	H(WS)	
Remark: * Refer to standard for "Aldicarb and Methomyl."				
Methoxychlor (72-43-5)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C SA, SB, SC	35 35 0.03* 0.03	H(WS) H(WS) A(C) A(C)	H F
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) of this Title.				
N-Methylaniline (100-61-8)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Methyl chloride (74-87-3)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				

2-Methyl-4-chloro- phenoxyacetic acid (94-74-6)	GA	0.44	H(WS)	F
4,4'-Methylene-bis-(2-chloroaniline) (101-14-4)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
4,4'-Methylene-bis-(N-methyl)aniline (1807-55-2)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
4,4'-Methylene-bis-(N,N'-dimethyl) aniline (101-61-1)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Methylene bisthiocyanate (6317-18-6)	A, A-S, AA, AA-S, B, C	1.0*	A(C)	
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) of this Title.				
Methylene chloride (75-09-2)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D SA,SB, SC, I, SD	5 * 200 200	H(WS) H(WS) H(FC) H(FC)	I J A A
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Methyl iodide (74-88-4)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Methyl methacrylate (80-62-6)	GA	50	H(WS)	J
Methyl parathion (298-00-0)	GA A, A-S, AA, AA-S, B, C	* *	H(WS) A(C)	
Remark: * Refer to standards for "Parathion and Methyl parathion."				

alpha-Methylstyrene (98-83-9)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2-Methylstyrene (611-15-4)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
3-Methylstyrene (100-80-1)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
4-Methylstyrene (622-97-9)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Metribuzin (21087-64-9)	GA	50	H(WS)	J
Mirex (2385-85-5)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD A, A-S, AA, AA-S, B, C D SA, SB, SC	0.03 0.03 1×10^{-6} 1×10^{-6} 0.001* 0.001* 0.001	H(WS) H(WS) H(FC) H(FC) A(C) A(A) A(C)	A A A A
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) and (d) of this Title.				
Nabam (142-59-6)	GA	1.8	H(WS)	F
Naphthalene (91-20-3)	A, A-S, AA, AA-S	10	E	U
Niacinamide (98-92-0)	A, A-S, AA, AA-S	500	H(WS)	B

Nickel (CAS No. Not Applicable)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C A, A-S, AA, AA-S, B, C, D SA, SB, SC, I SA, SB, SC, I, SD	100 100 * ** 8.2 74	H(WS) H(WS) A(C) A(A) A(C) A(A)	B B
Remarks: * (0.997) exp (0.846 [ln (hardness)] + 0.0584) ** (0.998) exp (0.846 [ln (hardness)] + 2.255) Aquatic Type standards apply to dissolved form.				
Nitralin (4726-14-1)	GA	35	H(WS)	F
Nitrate (expressed as N) (CAS No. Not Applicable)	A, A-S, AA, AA-S GA	10,000* 10,000*	H(WS) H(WS)	G G
Remark: * Also see standards for "Nitrate and Nitrite."				
Nitrate and Nitrite (expressed as N) (CAS No. Not Applicable)	A, A-S, AA, AA-S GA	10,000* 10,000*	H(WS) H(WS)	G G
Remark: * Applies to the sum of these substances; also see individual standards for "Nitrate" and "Nitrite."				
Nitrilotriacetic acid (CAS No. Not Applicable)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C	3* 3* 5,000**	H(WS) H(WS) A(C)	A A
Remarks: * Includes related forms that convert to nitrilotriacetic acid upon acidification to a pH of 2.3 or less. ** Applies to nitrilotriacetate. ** For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) of this Title.				
Nitrite (expressed as N) (CAS No. Not Applicable)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C	1,000* 1,000* **	H(WS) H(WS) A(C)	G G

Remarks: * Also see standards for "Nitrate and Nitrite." ** Standard is 100 ug/L for warm water fishery waters and 20 ug/L for cold water fishery waters. ** For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) of this Title.				
2-Nitroaniline (88-74-4)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
3-Nitroaniline (99-09-2)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
4-Nitroaniline (100-01-6)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Nitrobenzene (98-95-3)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S	0.4 0.4 30	H(WS) H(WS) E	A A U
2-Nitrotoluene (88-72-2)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
3-Nitrotoluene (99-08-1)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
4-Nitrotoluene (99-99-0)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
5-Nitro-o-toluidine (99-55-8)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				

Octachlorostyrene (29082-74-4)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD	0.2 0.2 6×10^{-6} 6×10^{-6}	H(WS) H(WS) H(FC) H(FC)	B B B B
Oxamyl (23135-22-0)	GA	50	H(WS)	J
Paraquat (4685-14-7)	GA	3.0	H(WS)	F
Parathion (56-38-2)	GA A, A-S, AA, AA-S, B, C A, A-S, AA, AA-S, B, C, D	* * 0.065	H(WS) A(C) A(A)	
Remark: * Refer to standards for "Parathion and Methyl parathion."				
Parathion and Methyl parathion (56-38-2; 298-00-0)	GA A, A-S, AA, AA-S, B, C	1.5* 0.008**	H(WS) A(C)	F
Remarks: * Applies to the sum of these substances. ** Applies to the sum of these substances. For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) of this Title.				
Pendimethalin (40487-42-1)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Pentachlorobenzene (608-93-5)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Pentachloroethane (76-01-7)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Pentachloronitrobenzene (82-68-8)	GA	ND	H(WS)	F

Pentachlorophenol (87-86-5)	A, A-S, AA, AA-S, B, C A, A-S, AA, AA-S, B, C, D A, A-S, AA, AA-S GA B, C, D	* ** *** *** ****	A(C) A(A) E E E	
Remarks: * exp [1.005 (pH) - 5.134] ** exp [1.005 (pH) - 4.869] *** Refer to standards for "Phenolic compounds (total phenols)." **** Refer to standards for "Phenols, total chlorinated."				
Phenol (108-95-2)	A, A-S, AA, AA-S GA B, C, D	* * **	E E E	
Remarks: * Refer to standards for "Phenolic compounds (total phenols)." ** Refer to standards for "Phenols, total unchlorinated."				
Phenolic compounds (total phenols) (CAS No. Not Applicable)	A, A-S, AA, AA-S GA	1* 1*	E E	U U
Remark: * Applies to the sum of these substances.				
Phenols, total chlorinated (CAS No. Not Applicable)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D	* * 1.0**	E E E	V
Remarks: * Refer to standards for "Phenolic compounds (total phenols)." ** Applies to the sum of these substances.				
Phenols, total unchlorinated (CAS No. Not Applicable)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D	* * 5.0**	E E E	V
Remarks: * Refer to standards for "Phenolic compounds (total phenols)." ** Applies to the sum of these substances.				

1,2-Phenylenediamine (95-54-5)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,3-Phenylenediamine (108-45-2)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,4-Phenylenediamine (106-50-3)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Phenyl ether (101-84-8)	A, A-S, AA, AA-S	10	E	U
Phenylhydrazine (100-63-0)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
3-Phenyl-1-propene (637-50-3)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
cis-1-Phenyl-1-propene (766-90-5)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
trans-1-Phenyl-1-propene (873-66-5)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Phorate (298-02-2)	GA	*	H(WS)	
Remark: * Refer to standards for "Phorate and Disulfoton."				
Phorate and Disulfoton (298-02-2; 298-04-4)	GA	ND*	H(WS)	F
Remark: * Applies to sum of these substances.				
Picloram (CAS No. Not Applicable)	GA	50*	H(WS)	J

Remark: * Includes: related forms that convert to the organic acid upon acidification to a pH of 2 or less; and esters of the organic acid.				
Polybrominated biphenyls (CAS No. Not Applicable)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to each congener individually.				
Polychlorinated biphenyls (CAS No. Not Applicable)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD A, A-S, AA, AA-S, B, C,D SA, SB, SC, I, SD	0.09* 0.09* 1×10^{-6}* 1×10^{-6}* 1.2×10^{-4}* 1.2×10^{-4}*	H(WS) H(WS) H(FC) H(FC) W W	A A A A
Remark: * Applies to the sum of these substances.				
Principal organic contaminant (CAS No. Not Applicable)	GA	5	H(WS)	J
Remarks: This standard applies to any and every individual substance, whether listed in this Table or not, that is in one of the principal organic contaminant classes as defined in section 700.1 of this Title except any substance that has a H(WS) Type standard for class GA waters (other than 5 ug/L with Basis Code J) listed elsewhere in this Table. For the convenience of the reader, the principal organic contaminant standard of 5 ug/L (Basis Code J), is listed in this Table for some but not all substances regulated by this standard. A less stringent guidance value for an individual substance may be substituted for this standard if so determined by the Commissioner of the New York State Department of Health.				
Prometon (1610-18-0)	GA	50	H(WS)	J
Propachlor (1918-16-7)	GA	35	H(WS)	F
Propanil (709-98-8)	GA	7.0	H(WS)	F
Propazine (139-40-2)	GA	16	H(WS)	F
Propham (122-42-9)	GA	50	H(WS)	J

n-Propylbenzene	A, A-S, AA, AA-S	5	H(WS)	I
(103-65-1)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Quaternary ammonium compounds (including dimethyl benzyl ammonium chloride & dimethyl ethyl benzyl ammonium chloride) (CAS No. Not Applicable)	A, A-S, AA, AA-S, B, C	10*	A(C)	
Remarks: * Applies to the sum of these substances. * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) of this Title.				
Radium 226	A, AA	*	H(WS)	H
(CAS No. Not Applicable)	GA	*	H(WS)	H
Remark: * 3 picocuries per liter; also see standards for "Radium 226 and Radium 228."				
Radium 226 and Radium 228 (CAS No. Not Applicable)	A, A-S, AA, AA-S	*	H(WS)	G
	GA	*	H(WS)	G
Remark: * 5 picocuries per liter; Applies to the sum of these substances.				
Radium 228	A, A-S, AA, AA-S	*	H(WS)	
(CAS No. Not Applicable)	GA	*	H(WS)	
Remark: * Refer to standards for "Radium 226 and Radium 228."				
Selenium	A, A-S, AA, AA-S	10	H(WS)	G
(CAS No. Not Applicable)	GA	10	H(WS)	G
	A, A-S, AA, AA-S, B, C	4.6*	A(C)	
Remark: * Aquatic Type standard applies to dissolved form.				
Silver	A, A-S, AA, AA-S	50	H(WS)	G
(CAS No. Not Applicable)	GA	50	H(WS)	F
	A, A-S, AA, AA-S, B, C	0.1*	A(C)	
	D	**	A(A)	
	SD	2.3	A(A)	

Remarks: * Applies to ionic silver.

** exp (1.72 [ln (ppm hardness)] - 6.52).

Standards for D and SD Classes apply to acid-soluble form.

For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) and (d) of this Title.

Simazine	A, A-S, AA, AA-S	0.5	H(WS)	A
(122-34-9)	GA	0.5	H(WS)	A
Sodium	GA	20,000	H(WS)	H
(CAS No. Not Applicable)				
Strontium 90	A, A-S, AA, AA-S	*	H(WS)	G
(CAS No. Not Applicable)				

Remarks: * 8 picocuries per liter.

If two or more radionuclides are present, the sum of their doses shall not exceed an annual potential dose of 4 millirems per year.

Styrene	GA	*	H(WS)	J
(100-42-5)	A, A-S, AA, AA-S	50	E	U

Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.

Sulfate	A, A-S, AA, AA-S	250,000	H(WS)	G
(CAS No. Not Applicable)	GA	250,000	H(WS)	F
Sulfite	A, A-S, AA, AA-S, B, C	200*	A(C)	
(CAS No. Not Applicable)				

Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) of this Title.

Tebuthiuron	GA	50	H(WS)	J
(34014-18-1)				
Terbacil	GA	50	H(WS)	J
(5902-51-2)				
Tetrachlorobenzenes	GA	*	H(WS)	J
(634-66-2; 634-90-2;	A, A-S, AA, AA-S	10**	E	U
95-94-3; 12408-10-5)				

Remarks: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to each isomer (1,2,3,4-, 1,2,3,5-, and 1,2,4,5-tetrachlorobenzene) individually.

** Applies to the sum of 1,2,3,4-, 1,2,3,5- and 1,2,4,5-tetrachlorobenzene.

1,1,1,2-Tetrachloroethane (630-20-6)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,1,2,2-Tetrachloroethane (79-34-5)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Tetrachloroethene (127-18-4)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Tetrachloroterephthalic acid (2136-79-0)	GA	50	H(WS)	J
alpha, alpha, alpha, 4-Tetrachloro- toluene (5216-25-1)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Thallium (CAS No. Not Applicable)	A, A-S, AA, AA-S, B, C D	8* 20	A(C) A(A)	
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) of this Title. Aquatic Type standards apply to acid-soluble form.				
Theophylline (58-55-9)	A, A-S, AA, AA-S	40	H(WS)	B
Thiram (137-26-8)	GA	1.8	H(WS)	F
Toluene (108-88-3)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD	5 * 6,000 6,000	H(WS) H(WS) H(FC) H(FC)	I J B B
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				

Toluene-2,4-diamine (95-80-7)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Toluene-2,5-diamine (95-70-5)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Toluene-2,6-diamine (823-40-5)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
o-Toluidine (95-53-4)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Toxaphene (8001-35-2)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD A, A-S, AA, AA-S, B, C D SA, SB, SC	0.06 0.06 6×10^{-6} 6×10^{-6} 0.005 1.6* 0.005	H(WS) H(WS) H(FC) H(FC) A(C) A(A) A(C)	A A A A
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic standard if so determined under section 702.15 (d) of this Title.				
1,2,4-Tribromobenzene (615-54-3)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,4,6-Trichloroaniline (634-93-5)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				

Trichlorobenzenes (87-61-6; 120-82-1; 108-70-3; 12002-48-1)	GA A, A-S, AA, AA-S, B, C SA, SB, SC A, A-S, AA, AA-S D SD	* 5** 5** 10** 50** 50**	H(WS) A(C) A(C) E E E	J U V V
Remarks: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to each isomer (1,2,3-, 1,2,4- and 1,3,5-trichlorobenzene) individually. ** Applies to the sum of 1,2,3-, 1,2,4- and 1,3,5-trichlorobenzene. For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) of this Title.				
1,1,1-Trichloroethane (71-55-6)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,1,2-Trichloroethane (79-00-5)	A, A-S, AA, AA-S GA	1 1	H(WS) H(WS)	A A
Trichloroethene (79-01-6)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD	5 * 40 40	H(WS) H(WS) H(FC) H(FC)	I J A A
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Trichlorofluoromethane (75-69-4)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,4,5-Trichlorophenoxy- acetic acid (93-76-5)	GA	35	H(WS)	F
2,4,5-Trichlorophenoxy- propionic acid (93-72-1)	A, A-S, AA, AA-S GA	10 0.26	H(WS) H(WS)	G F

1,1,2-Trichloropropane	A, A-S, AA, AA-S	5	H(WS)	I
(598-77-6)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,2,3-Trichloropropane	A, A-S, AA, AA-S	0.04	H(WS)	A
(96-18-4)	GA	0.04	H(WS)	A
cis-1,2,3-Trichloropropene	A, A-S, AA, AA-S	5	H(WS)	I
(13116-57-9)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
trans-1,2,3-Trichloropropene	A, A-S, AA, AA-S	5	H(WS)	I
(13116-58-0)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
alpha,2,4-Trichlorotoluene	A, A-S, AA, AA-S	5	H(WS)	I
(94-99-5)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
alpha,2,6-Trichlorotoluene	A, A-S, AA, AA-S	5	H(WS)	I
(2014-83-7)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
alpha,3,4-Trichlorotoluene	A, A-S, AA, AA-S	5	H(WS)	I
(102-47-6)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
alpha,alpha,2-Trichlorotoluene	A, A-S, AA, AA-S	5	H(WS)	I
(88-66-4)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
alpha,alpha,4-Trichlorotoluene	A, A-S, AA, AA-S	5	H(WS)	I
(13940-94-8)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,3,4-Trichlorotoluene	GA	*	H(WS)	J
(7359-72-0)				
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				

2,3,5-Trichlorotoluene (56961-86-5)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,3,6-Trichlorotoluene (2077-46-5)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,4,5-Trichlorotoluene (6639-30-1)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,4,6-Trichlorotoluene (23749-65-7)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,1,1-Trichloro-2,2,2-trifluoroethane (354-58-5)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Trifluralin (1582-09-8)	GA	35	H(WS)	F
1,2,3-Trimethylbenzene (526-73-8)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,2,4-Trimethylbenzene (95-63-6)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,3,5-Trimethylbenzene (108-67-8)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				

sym-Trinitrobenzene (99-35-4)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,3,4-Trinitrotoluene (602-29-9)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,3,6-Trinitrotoluene (18292-97-2)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,4,5-Trinitrotoluene (610-25-3)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,4,6-Trinitrotoluene (118-96-7)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
3,4,5-Trinitrotoluene (603-15-6)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Triphenyl phosphate (115-86-6)	A, A-S, AA, AA-S, B, C D	4* 40*	A(C) A(A)	
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) and (d) of this Title.				
Tritium (CAS No. Not Applicable)	A, A-S, AA, AA-S	*	H(WS)	G
Remark: * 20,000 picocuries per liter; if two or more radionuclides are present, the sum of their annual dose equivalent to the total body or any organ shall not exceed 4 millirems per year.				
Uranyl ion (Cas No. Not Applicable)	GA	5,000	H(WS)	H
Vanadium (CAS No. Not Applicable)	A, A-S, AA, AA-S, B, C D	14* 190*	A(C) A(A)	

Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) and (d) of this Title. Aquatic Type standards apply to acid-soluble form.				
Vinyl chloride (75-01-4)	GA	2	H(WS)	G
1,2-Xylene (95-47-6)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,3-Xylene (108-38-3)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,4-Xylene (106-42-3)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Zinc (CAS No. Not Applicable)	A, A-S, AA, AA-S, B, C A, A-S, AA, AA-S, B, C, D SA, SB, SC, I SD	* ** 66 95	A(C) A(A) A(C) A(A)	
Remarks: Aquatic Type standards apply to dissolved form. * exp(0.85 [ln(ppm hardness)] + 0.50) ** 0.978 exp(0.8473 [ln(ppm hardness)] + 0.884)				
Zineb (12122-67-7)	GA	1.8	H(WS)	F
Ziram (137-30-4)	GA	4.2	H(WS)	F

Table 2

BASIS OF STANDARDS

(cf.703.5)

BASIS CODE	BASIS
A	Oncogenic, Human Health
B	Non-oncogenic, Human Health
F	Former Groundwater Regulations,6 NYCRR 703.5(a)(3), Human Health or Aesthetics
G	Specific MCL, Human Health or Aesthetics
H	Former Use of or Reference to 10 NYCRR Part 170, Human Health or Aesthetics
I	Principal Organic Contaminant Classes, Human Health
J	Former Groundwater Reference to 10 NYCRR Subpart 5-1, General Standards, Human Health
U	Potable Water, Aesthetics
V	Aquatic Life, Aesthetics

Historical Note

Sec. filed March 20, 1967; repealed, new filed: April 28, 1972; Aug. 2, 1978, amd. filed Nov. 5, 1984; repealed, new filed Aug. 2, 1991; amds. filed: Dec. 10, 1993; Feb. 10, 1998; Mar. 22, 1999 eff. April 7, 1999. Amended (f), Table (1).

§ 703.6 Groundwater effluent limitations for discharges to Class GA waters.

(a) The groundwater effluent limitations in Table 3 of subdivision (e) of this section and effluent limitations as established by section 702.16(c)(1) of this Title apply to a discharge from a point source or outlet or any other discharge within the meaning of the Environmental Conservation Law, section 17-0501 that will or may enter the waters of the State. Unless a demonstration is made to the contrary, it shall be presumed that a discharge to the ground or unsaturated zone is a discharge to groundwater. The groundwater effluent limitation is the maximum allowable concentration in micrograms per liter (ug/L), unless otherwise noted.

(b) In addition to the chemical characteristics provided in subdivision (a) of this section, coliform or pathogenic organisms shall not be discharged in amounts sufficient to render groundwaters detrimental to public health, safety or welfare.

(c) The department may establish additional groundwater effluent limitations as set forth in Part 702 of this Title.

(d) The groundwater effluent limitations shall be incorporated in SPDES permits (under Part 750 *et seq.* of this Title) for discharges to groundwaters, where applicable.

(e) *Tables.*

TABLE 3

(cf. section 703.6)

GROUNDWATER EFFLUENT LIMITATIONS

CLASS GA

Substance	CAS No.	Maximum Allowable Concentration (ug/L)
Alachlor	15972-60-8	0.5
Aldicarb and Methomyl	116-06-3; 16752-77-5	0.35

Aldrin	309-00-2	Not Detectable
Aluminum	Not Applicable	2,000
Antimony	Not Applicable	6
Arsenic	Not Applicable	50
Asbestos (fibers>10um)	Not Applicable	1.4×10^7 (fibers/L)
Atrazine	1912-24-9	7.5
Azinphosmethyl	86-50-0	4.4
Barium	Not Applicable	2,000
Benefin	1861-40-1	35
Benzene	71-43-2	1
Benzo(a)pyrene	50-32-8	Not Detectable
Bis(2-chloroethyl)ether	111-44-4	1.0
bis(2-ethylhexyl)phthalate	117-81-7	5
Bromacil	314-40-9	4.4
Butachlor	23184-66-9	3.5
Cadmium	Not Applicable	10
Captan	133-06-2	18
Carbaryl	63-25-2	29
Carbon tetrachloride	56-23-5	5
Chlorinated dibenzo-p-dioxins and Chlorinated dibenzofurans[7]	Not Applicable	7×10^{-7} equivalents of 2, 3, 7, 8 - TCDD
Chloramben[1]	Not Applicable	50
Chlordane	57-74-9	0.05
Chloride	Not Applicable	500,000
Chloroform	67-66-3	7
Chromium (Hexavalent)	Not Applicable	100
Copper	Not Applicable	1,000
Cyanide	Not Applicable	400
p,p'-DDD	72-54-8	0.3
p,p'-DDE	72-55-9	0.2
p,p'-DDT	50-29-3	0.2
Diazinon	333-41-5	0.7
1,2-Dibromo-3-chloropropane	96-12-8	0.04
Di-n-butylphthalate	84-74-2	50
Dicamba	1918-00-9	0.44
1,2-Dichlorobenzene	95-50-1	3
1,3-Dichlorobenzene	541-73-1	3
1,4-Dichlorobenzene	106-46-7	3
1,2-Dichloroethane	107-06-2	0.6
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	50
1,2-Dichloropropane	78-87-5	1
1,3-Dichloropropene (sum of cis- and trans- isomers)	542-75-6 (sum of 10061-01-5 and 10061-02-6)	0.4

Dieldrin	60-57-1	0.004
Di(2-ethylhexyl)adipate	103-23-1	20
N,N-Dimethylaniline	121-69-7	1
Diphenylhydrazine	122-66-7	Not Detectable
Diquat	2764-72-9	20
Endrin	72-20-8	Not Detectable
Ethylene dibromide	106-93-4	6×10^{-4}
Ethylenethiourea	96-45-7	Not Detectable
Ferbam	14484-64-1	4.2
Fluoride	Not Applicable	3,000
Foaming agents[2]	Not Applicable	1,000
Folpet	133-07-3	50
Heptachlor	76-44-8	0.04
Heptachlor epoxide	1024-57-3	0.03
Hexachlorobenzene	118-74-1	0.04
Hexachlorobutadiene	87-68-3	0.5
alpha-Hexachlorocyclohexane	319-84-6	0.01
beta-Hexachlorocyclohexane	319-85-7	0.04
delta-Hexachlorocyclohexane	319-86-8	0.04
epsilon-Hexachlorocyclohexane	6108-10-7	0.04
gamma-Hexachlorocyclohexane	58-89-9	0.05
Hexachlorophene	70-30-4	See Note 3
Iron[4]	Not Applicable	600
Kepone	143-50-0	Not Detectable
Lead	Not Applicable	50
Malathion	121-75-5	7.0
Mancozeb	8018-01-7	1.8
Maneb	12427-38-2	1.8
Manganese[4]	Not Applicable	600
Mercury	Not Applicable	1.4
Methoxychlor	72-43-5	35
2-Methyl-4-chlorophenoxyacetic acid	94-74-6	0.44
Methylene chloride (Dichloromethane)	75-09-2	5
Methyl methacrylate	80-62-6	50
Mirex	2385-85-5	0.03
Nabam	142-59-6	1.8
Nickel	Not Applicable	200
Nitralin	4726-14-1	35
Nitrate (expressed as N)	Not Applicable	20,000
Nitrate and Nitrite (expressed as N)	Not Applicable	20,000
Nitrilotriacetic acid[5]	Not Applicable	3
Nitrite (expressed as N)	Not Applicable	2,000
Nitrobenzene	98-95-3	0.4
Octachlorostyrene	29082-74-4	0.2
Oil and Grease	Not Applicable	15,000
Paraquat	4685-14-7	3.0

Parathion and Methyl parathion	56-38-2; 298-00-0	1.5
Pentachloronitrobenzene	82-68-8	Not Detectable
pH	Not Applicable	See Note 6
Phenolic compounds (total phenols)	Not Applicable	2
Phorate and Disulfoton	298-02-2; 298-04-4	Not Detectable
Polychlorinated biphenyls	Not Applicable	0.09
Propachlor	1918-16-7	35
Propanil	709-98-8	7.0
Propazine	139-40-1	16
Selenium	Not Applicable	20
Silver	Not Applicable	100
Simazine	122-34-9	0.5
Styrene	100-42-5	930
Sulfate	Not Applicable	500,000
Sulfide	Not Applicable	1,000
Thiram	137-26-8	1.8
Toxaphene	8001-35-2	0.06
1,1,2-Trichloroethane	79-00-5	1
Trichloroethene	79-01-6	5
2,4,5-Trichlorophenoxyacetic acid	93-76-5	35
2,4,5-Trichlorophenoxypropionic acid	93-72-1	0.26
1,2,3-Trichloropropane	96-18-4	0.04
Trifluralin	1582-09-8	35
Vinyl chloride	75-01-4	2
Zinc	Not Applicable	5,000
Zineb	12112-67-7	1.8
Ziram	137-30-4	4.2

1. Includes related forms that convert to the organic acid upon acidification to a pH of 2 or less; and esters of the organic acid.

2. Foaming agents determined as methylene blue active substances (MBAS) or other tests as specified by the commissioner.

3. Refer to groundwater effluent limitation for "Phenolic compounds (total phenols)".

4. Combined concentration of iron and manganese shall not exceed 1000 ug/L.

5. Includes related forms that convert to nitrilotriacetic acid upon acidification to a pH of 2.3 or less.

6. pH shall not be lower than 6.5 or the pH of the natural groundwater, whichever is lower, nor shall be greater than 8.5 or the pH of the natural groundwater, whichever is greater.

7. Value is for the total of the chlorinated dibenzo-p-dioxins and chlorinated dibenzofurans as equivalents of 2,3,7,8-tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD) as specified by the Class GA H(WS) standard in Table 1 of section 703.5 of this Part.

In addition to the effluent limitations above, the following also apply in the counties of Nassau and Suffolk:

SUBSTANCE	MAXIMUM ALLOWABLE CONCENTRATION IN mg/L

(1) Dissolved solids, total	1,000
(2) Nitrogen, total (as N)	10

Historical Note
Sec. filed Aug. 2, 1978; repealed, new filed Aug. 2, 1991; amds. filed: Feb. 10, 1998; March 3, 1998; March 22, 1999 eff. April 7, 1999. Amended (e), (Table 3).

§ 703.7 Severability.

If any provision of this Part or its application to any person or circumstance is held to be invalid, the remainder of this Part and the application of that provision to other persons or circumstances will not be affected.

Historical Note
Sec. filed Aug. 2, 1978; repealed, new filed Aug. 2, 1991 eff. 30 days after filing.

§ 703.8-703.11

Historical Note Secs. filed Aug. 2, 1978; repealed, filed Aug. 2, 1991 eff. 30 days after filing.

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