Data File: /chem1/nt6.i/20071018.b/lr71b.d

Date : 18-OCT-2007 15:13

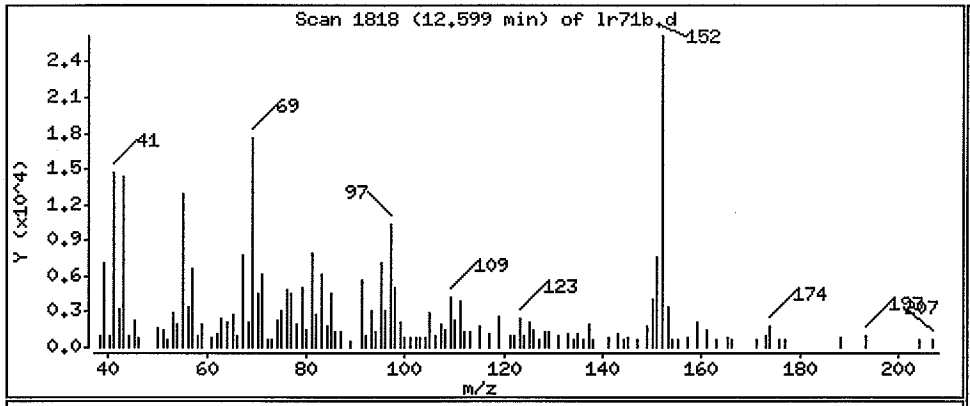
Client ID: AN-SS-02-070927 Instrument: nt6.i

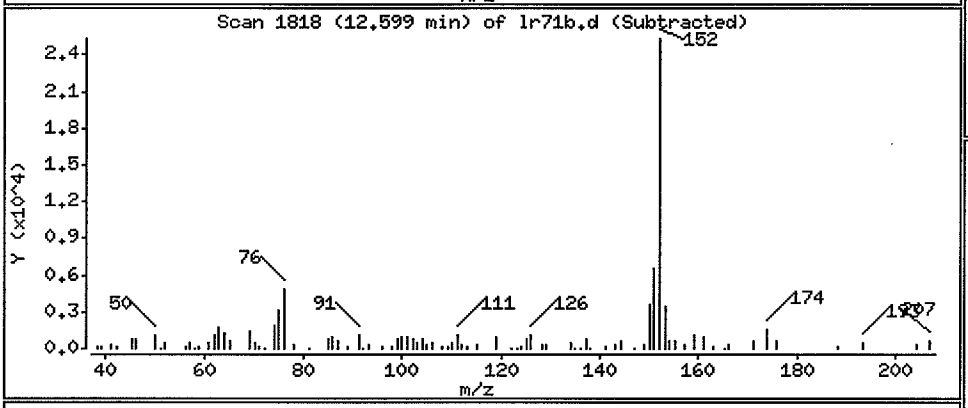
Sample Info: LR71B

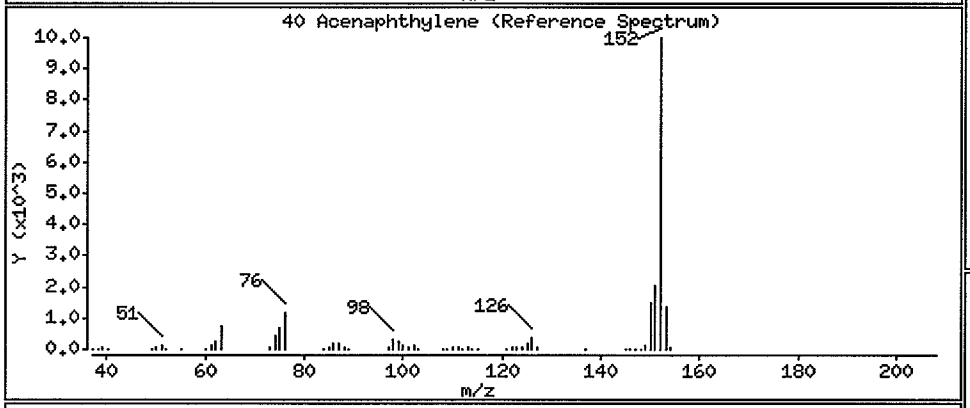
Volume Injected (uL): 1.0 Operator: LJR/VTS

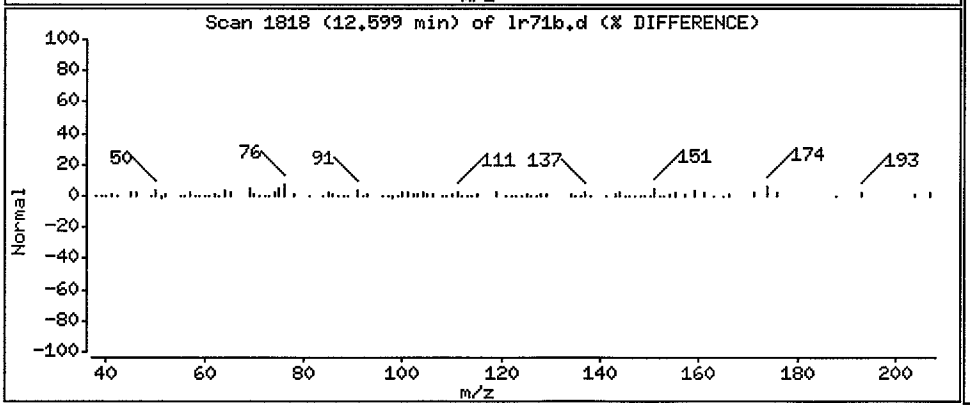
Column phase: ZB-5 Column diameter: 0.32

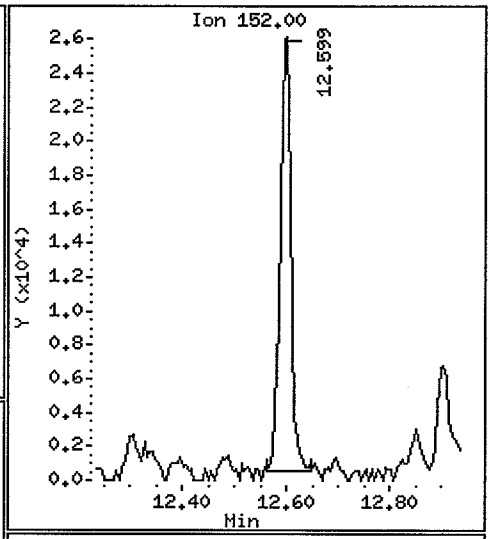
40 Acenaphthylene Concentration: 16.38 ug/kg

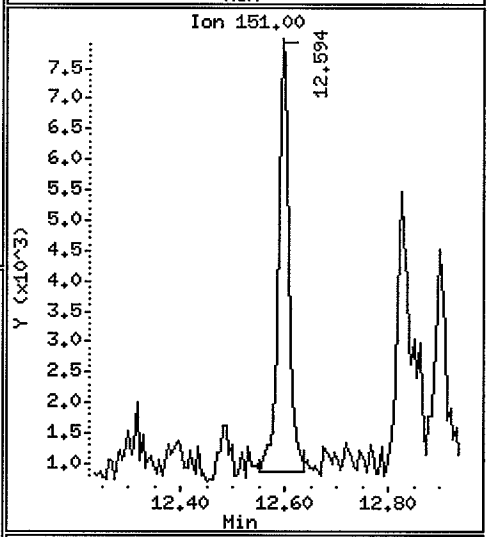


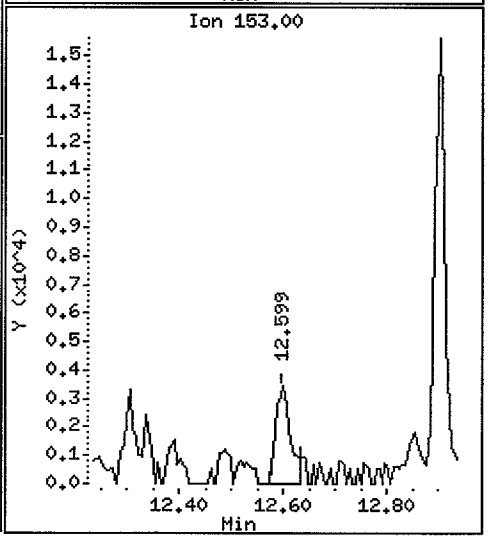












Data File: /chem1/nt6.i/20071018.b/lr71b.d

Date : 18-OCT-2007 15:13

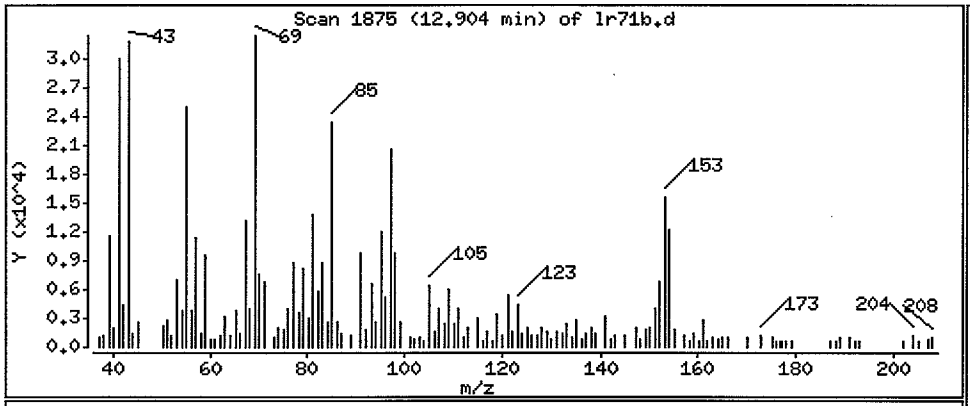
Client ID: AN-SS-02-070927 Instrument: nt6.i

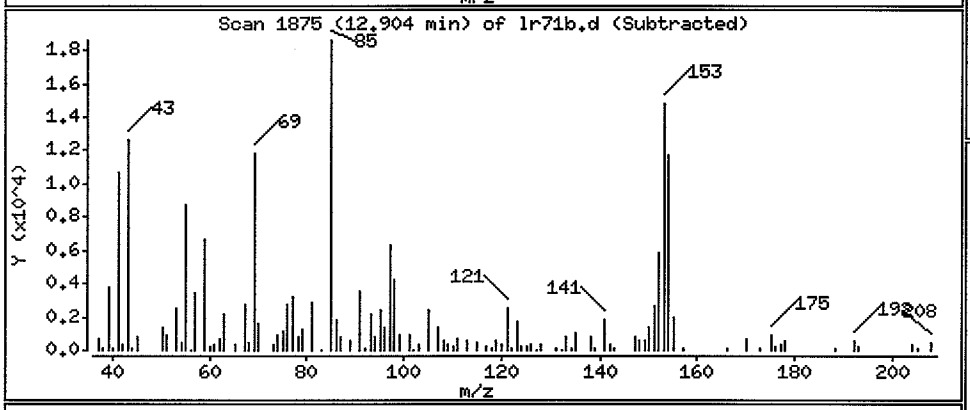
Sample Info: LR71B

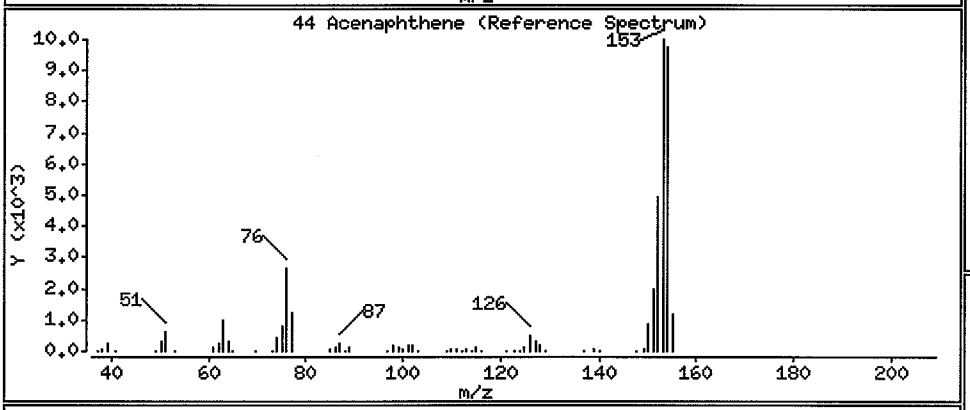
Volume Injected (uL): 1.0 Operator: LJR/VTS

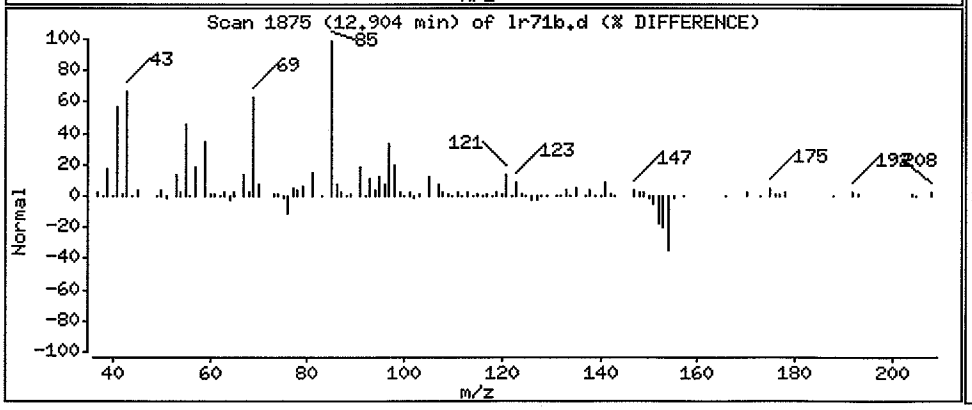
Column phase: ZB-5 Column diameter: 0.32

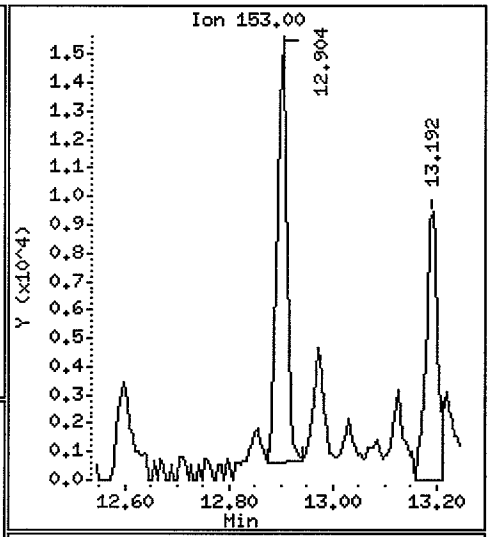
44 Acenaphthene Concentration: 13.80 ug/kg

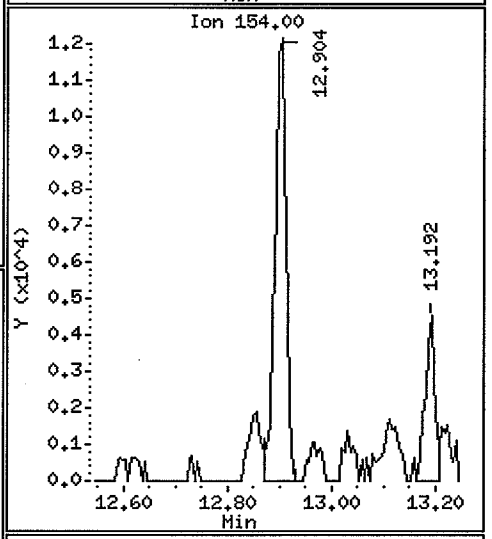


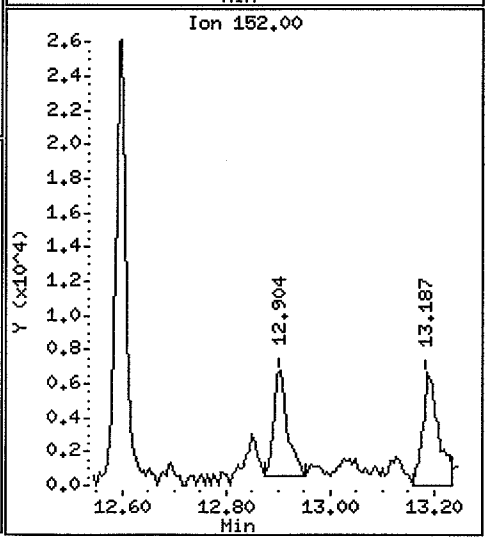












Data File: /chem1/nt6.i/20071018.b/lr71b.d

Date : 18-OCT-2007 15:13

Client ID: AN-SS-02-070927 Instrument: nt6.i

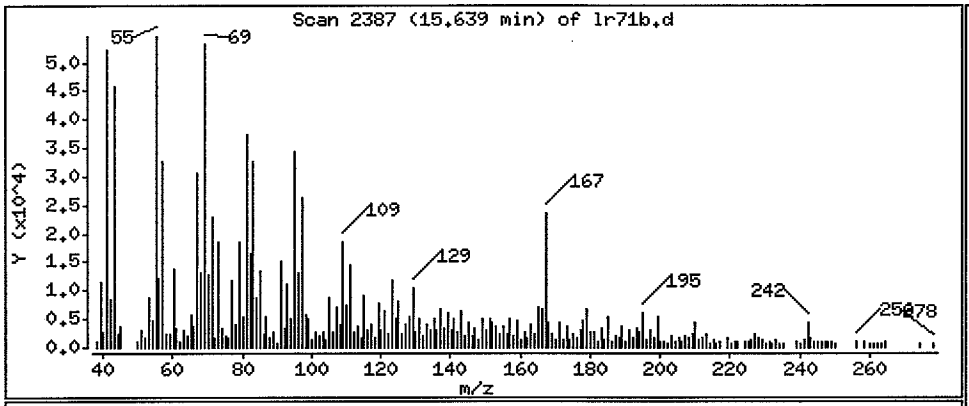
Sample Info: LR71B

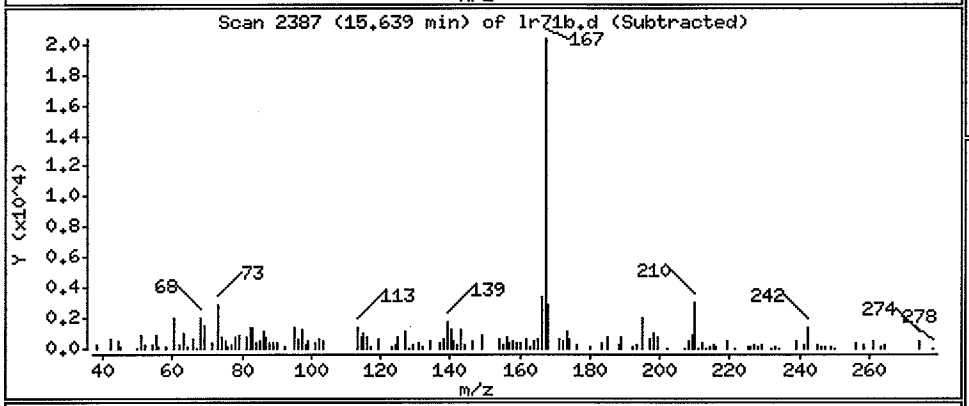
Volume Injected (uL): 1.0 Operator: LJR/VTS

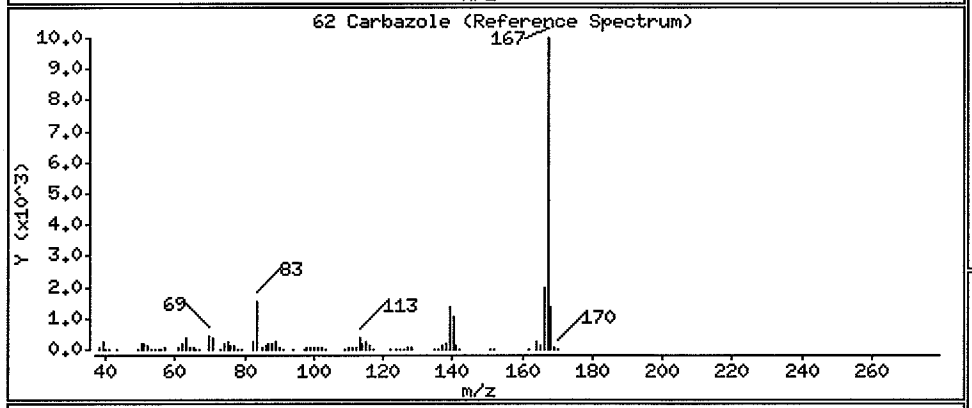
Column phase: ZB-5 Column diameter: 0.32

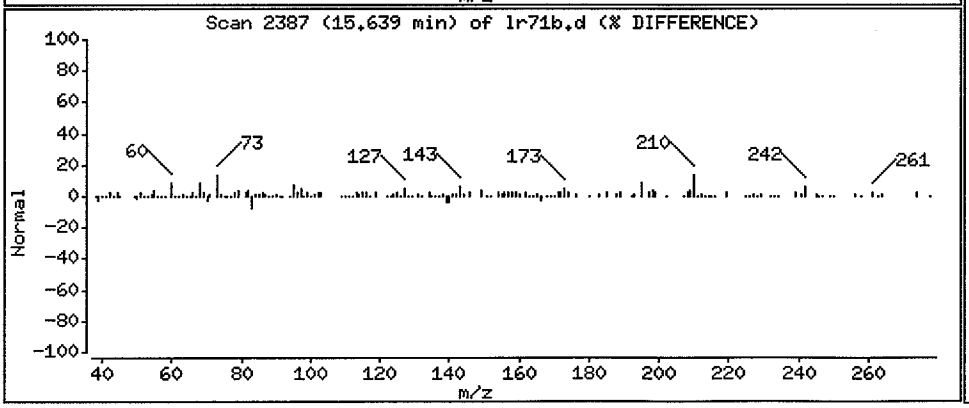
62 Carbazole Concentration: 15.06 ug/kg

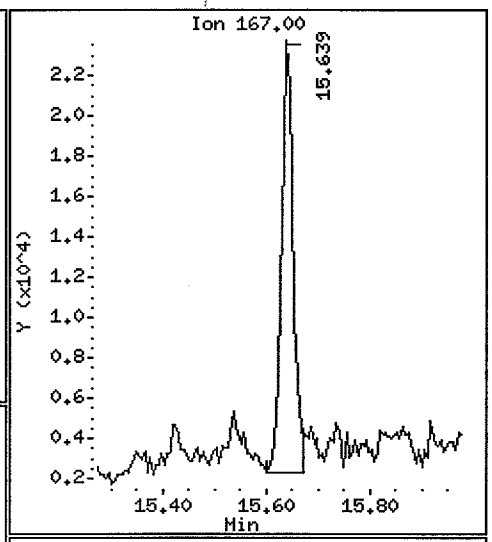
NK cpd

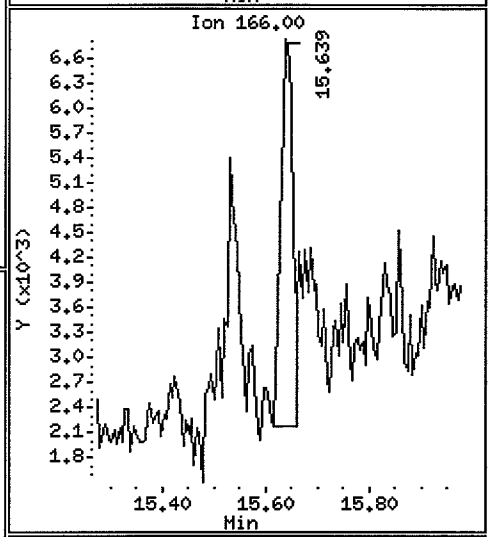


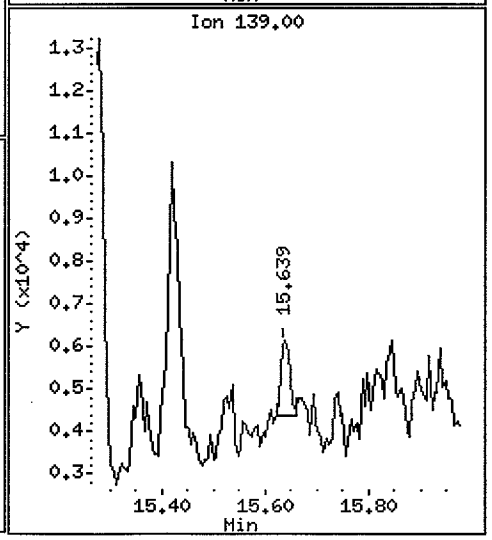












Data File: /chem1/nt6.i/20071018.b/lr71b.d

Date : 18-OCT-2007 15:13

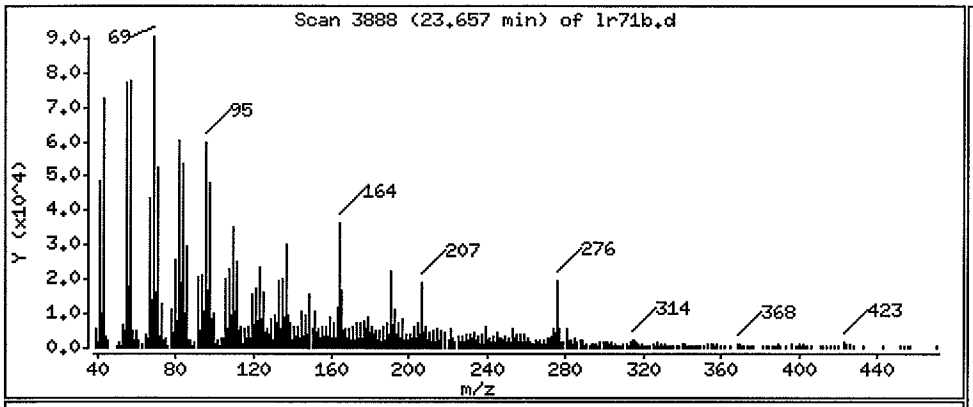
Client ID: AN-SS-02-070927 Instrument: nt6.i

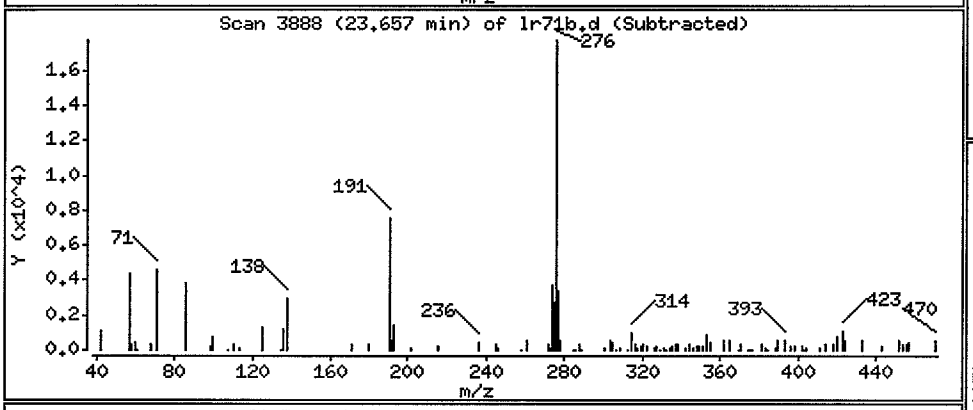
Sample Info: LR71B

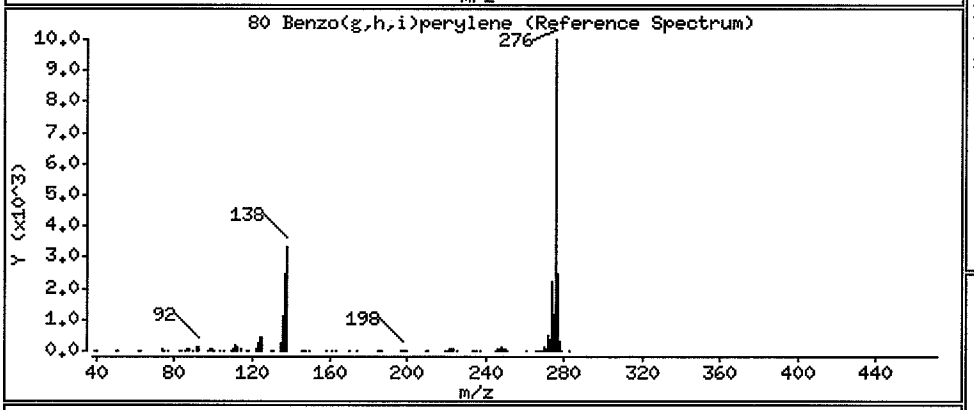
Volume Injected (uL): 1.0 Operator: LJR/VTS

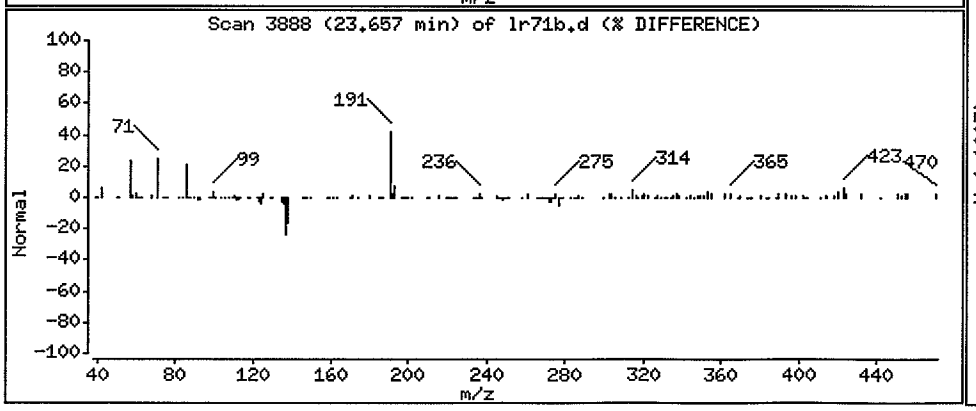
Column phase: ZB-5 Column diameter: 0.32

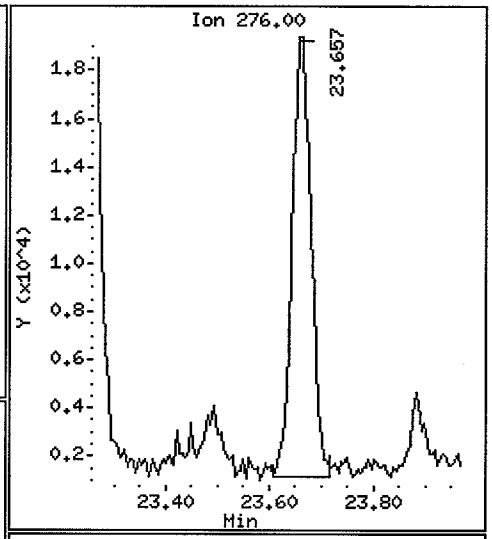
80 Benzo(g,h,i)perylene Concentration: 16.66 ug/kg

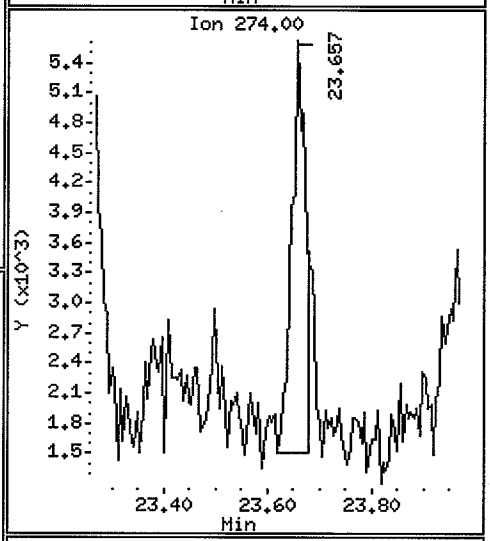


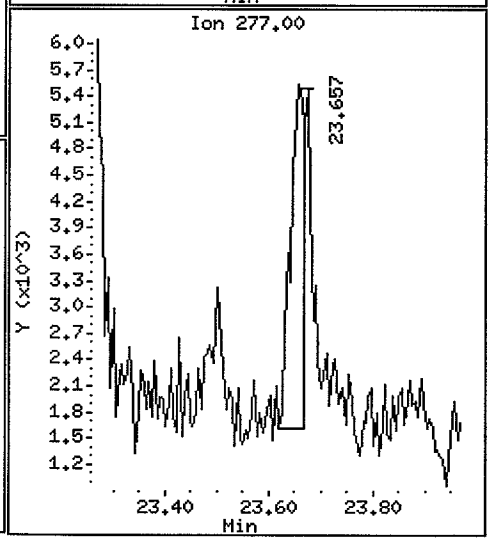












Data File: /chem1/nt6.i/20071018.b/lr71b.d

Date : 18-OCT-2007 15:13

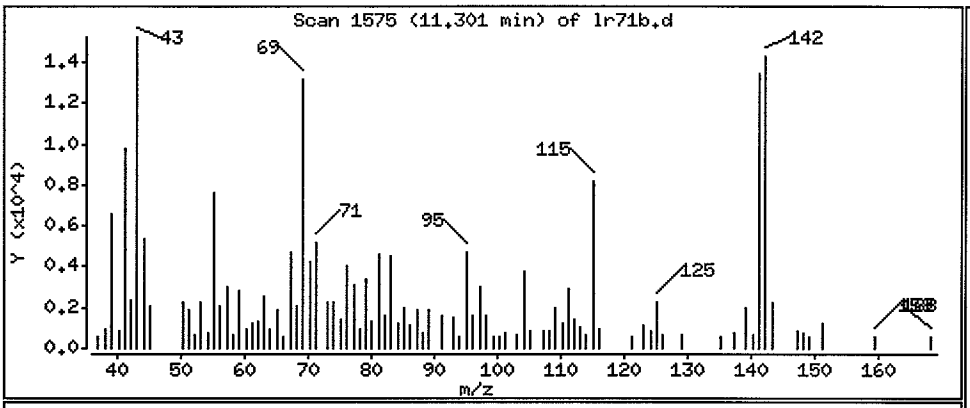
Client ID: AN-SS-02-070927 Instrument: nt6.i

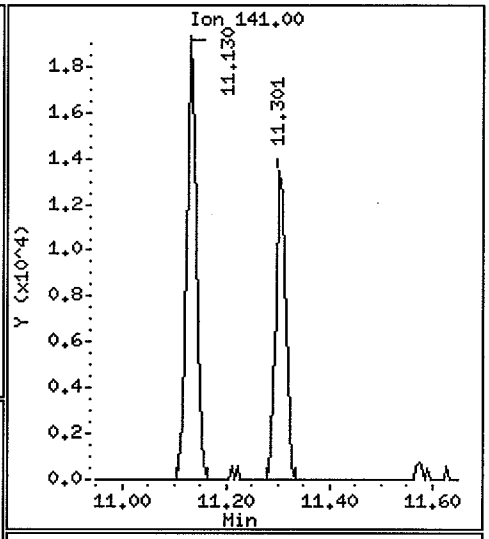
Sample Info: LR71B

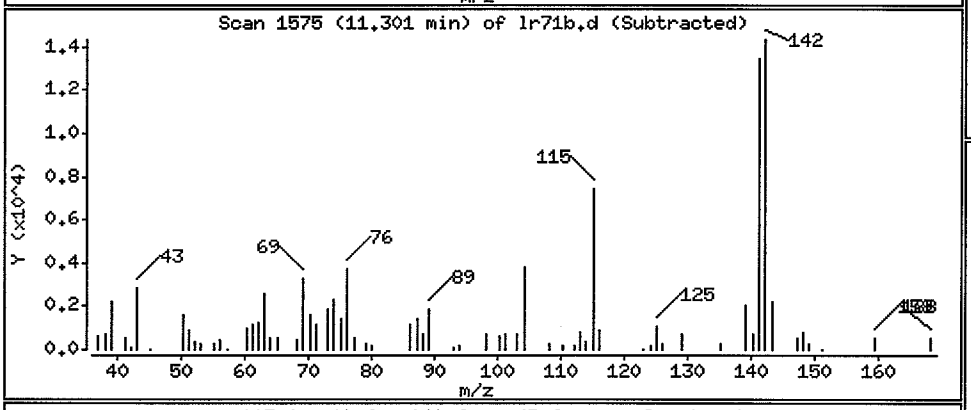
Volume Injected (uL): 1.0 Operator: LJR/VTS

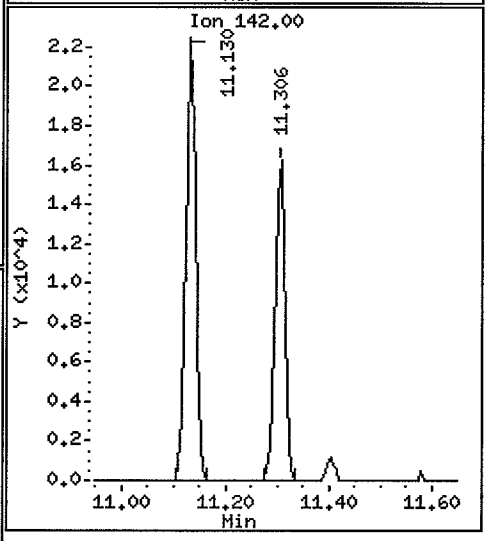
Column phase: ZB-5 Column diameter: 0.32

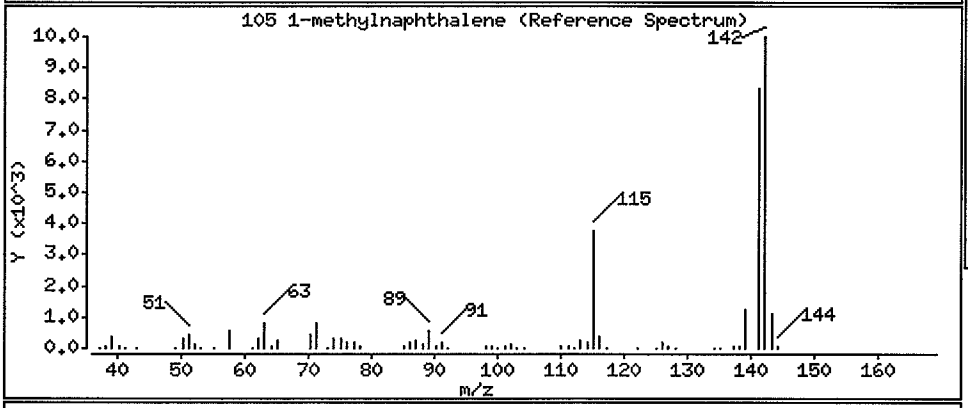
105 1-methylnaphthalene Concentration: 17.16 ug/kg

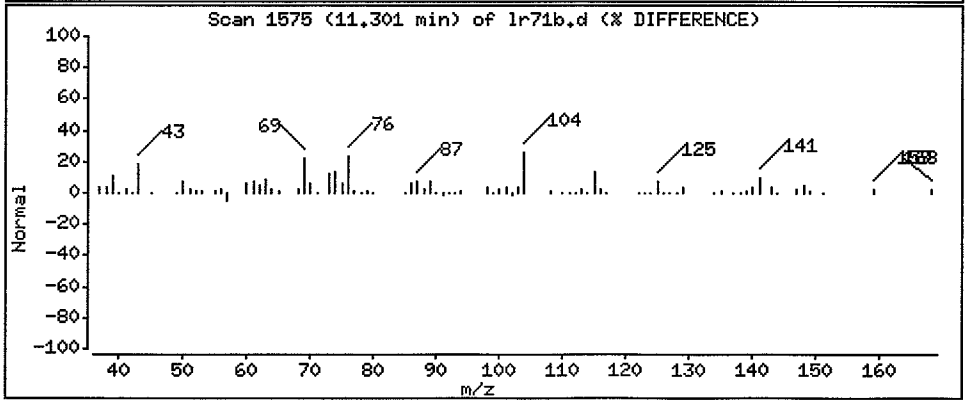












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: AN-SS-02-070927**
Page 1 of 2 **REEXTRACT**

Lab Sample ID: LR71B
LIMS ID: 07-20767
Matrix: Sediment
Data Release Authorized:
Reported: 01/25/08

QC Report No: LR71-Anchor Environmental, LLC
Project: Kimberly Clark Anacortes
NA
Date Sampled: 09/27/07
Date Received: 09/29/07

Date Extracted: 10/27/07
Date Analyzed: 11/01/07 17:11
Instrument/Analyst: NT4/LJR
GPC Cleanup: Yes

Sample Amount: 50.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 50.3%

CAS Number	Analyte	RL	Result
108-95-2	**Phenol**	**20**	**29**
541-73-1	1,3-Dichlorobenzene	20	< 20 U
106-46-7	1,4-Dichlorobenzene	20	< 20 U
100-51-6	Benzyl Alcohol	20	< 20 U
95-50-1	1,2-Dichlorobenzene	20	< 20 U
95-48-7	2-Methylphenol	20	< 20 U
106-44-5	**4-Methylphenol**	**20**	**390**
67-72-1	Hexachloroethane	20	< 20 U
105-67-9	2,4-Dimethylphenol	20	< 20 U
65-85-0	Benzoic Acid	200	< 200 U
120-82-1	1,2,4-Trichlorobenzene	10	< 10 UJ
91-20-3	**Naphthalene**	**20**	**74**
87-68-3	Hexachlorobutadiene	20	< 20 U
91-57-6	**2-Methylnaphthalene**	**20**	**24**
131-11-3	Dimethylphthalate	20	< 20 U
208-96-8	**Acenaphthylene**	**20**	**23**
83-32-9	Acenaphthene	20	< 20 U
132-64-9	**Dibenzofuran**	**20**	**21**
84-66-2	Diethylphthalate	20	< 20 U
86-73-7	**Fluorene**	**20**	**22**
86-30-6	N-Nitrosodiphenylamine	20	< 20 U
118-74-1	Hexachlorobenzene	10	< 10 UJ
87-86-5	Pentachlorophenol	99	< 99 U
85-01-8	**Phenanthrene**	**20**	**210**
120-12-7	**Anthracene**	**20**	**41**
84-74-2	Di-n-Butylphthalate	20	< 20 U
206-44-0	**Fluoranthene**	**20**	**340**
129-00-0	**Pyrene**	**20**	**170**
85-68-7	Butylbenzylphthalate	20	< 20 U
56-55-3	**Benzo(a)anthracene**	**20**	**59**
117-81-7	bis(2-Ethylhexyl)phthalate	20	< 20 U
218-01-9	**Chrysene**	**20**	**79**
117-84-0	Di-n-Octyl phthalate	20	< 20 U
205-99-2	**Benzo(b)fluoranthene**	**20**	**70**
207-08-9	**Benzo(k)fluoranthene**	**20**	**70**
50-32-8	**Benzo(a)pyrene**	**20**	**72**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**20**	**29**
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	**Benzo(g,h,i)perylene**	**20**	**27**

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS

Sample ID: AN-SS-02-070927
REEXTRACT

Lab Sample ID: LR71B
LIMS ID: 07-20767
Matrix: Sediment
Date Analyzed: 11/01/07 17:11

QC Report No: LR71-Anchor Environmental, LLC
Project: Kimberly Clark Anacortes
NA

CAS Number	Analyte	RL	Result
90-12-0	1-Methylnaphthalene	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	57.6%	2-Fluorobiphenyl	57.6%
d14-p-Terphenyl	42.4%	d4-1,2-Dichlorobenzene	51.2%
d5-Phenol	60.0%	2-Fluorophenol	47.5%
2,4,6-Tribromophenol	66.1%	d4-2-Chlorophenol	59.5%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20071101.b/lr71b2.d
Lab Smp Id: LR71BRE
Inj Date : 01-NOV-2007 17:11
Operator : VTS Inst ID: nt4.i
Smp Info : LR71BRE
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt4.i/20071101.b/SW846.m
Meth Date : 02-Nov-2007 11:41 jeff Quant Type: ISTD
Cal Date : 01-OCT-2007 11:04 Cal File: 0801001.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	25.00000	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)
$ 1	2-Fluorophenol	112	4.838	4.748	(0.709)	200457	17.7525	355.1
$ 2	Phenol-d5	99	6.511	6.489	(0.954)	284850	22.5277	450.8
3	Phenol	94	6.527	6.505	(0.956)	22013	1.46654	29.33(M)
$ 5	2-Chlorophenol-d4	132	6.543	6.521	(0.959)	209002	22.2931	445.9
4	Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6	2-Chlorophenol	128	Compound Not Detected.					
7	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8	1,4-Dichlorobenzene-d4	152	6.826	6.820	(1.000)	133446	20.0000	
9	1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10	1,2-Dichlorobenzene-d4	152	7.125	7.114	(1.044)	77148	12.7890	255.8
12	1,2-Dichlorobenzene	146	Compound Not Detected.					
11	Benzyl alcohol	108	Compound Not Detected.					
14	2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13	2-Methylphenol	108	Compound Not Detected.					
17	Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	7.697	7.686	(1.128)	199031	19.7197	394.4
$	18 Nitrobenzene-d5	82	7.777	7.771	(0.877)	182627	14.3541	287.1
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	8.717	8.813	(0.983)	46595	5.73624 LDL	114.7(M)
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	8.872	8.872	(1.000)	482322	20.0000	
	28 Naphthalene	128	8.898	8.899	(1.003)	109421	3.69529	73.91
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	10.015	10.015	(1.129)	18048	1.19648	23.93
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.677	10.677	(0.914)	260581	14.4143	288.3
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	11.431	11.431	(0.978)	30331	1.18456	23.69
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.682	11.682	(1.000)	261814	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	11.724	11.730	(1.004)	9874	0.58090 LDL	11.62(M)
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	11.992	11.992	(1.027)	23010	1.03939	20.79
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	12.579	12.585	(1.077)	12626	0.69110 LDL	13.82(M)
	49 Fluorene	166	12.536	12.537	(1.073)	21096	1.11675	22.33(M)
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	12.959	12.953	(1.109)	55802	24.7591	495.2
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.006	14.000	(1.000)	419690	20.0000	
	60 Phenanthrene	178	14.038	14.032	(1.002)	310950	10.7203	214.4
	61 Anthracene	178	14.107	14.102	(1.007)	60846	2.07450	41.49
	62 Carbazole	167	14.428	14.412	(1.030)	13001	0.51806 LDL	10.36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)
	63 Di-n-butylphthalate	149	15.218	15.197	(1.087)	27338	0.90626 LDL	18.13 (M)
	64 Fluoranthene	202	15.950	15.923	(1.139)	534455	17.0191	340.4
	65 Pyrene	202	16.287	16.260	(0.892)	451625	8.47288	169.5
$	66 Terphenyl-d14	244	16.661	16.634	(0.912)	326889	10.6233	212.5
	67 Butylbenzylphthalate	149	Compound Not Detected.					
	68 Benzo(a)anthracene	228	18.231	18.199	(0.999)	145996	2.95349	59.07
*	69 Chrysene-d12	240	18.258	18.221	(1.000)	665106	20.0000	(M)
	70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71 Chrysene	228	18.295	18.258	(1.002)	192725	3.96358	79.27
	72 bis(2-Ethylhexyl)phthalate	149	Compound Not Detected.					
*	134 Di-n-octylphthalate-d4	153	19.540	19.503	(1.000)	693549	20.0000	
	73 Di-n-octylphthalate	149	Compound Not Detected.					
	74 Benzo(b)fluoranthene	252	19.882	19.818	(0.975)	118644	3.50681	70.14 (M)
	75 Benzo(k)fluoranthene	252	19.882	19.850	(0.975)	125788	3.51953	70.39 (M)
	76 Benzo(a)pyrene	252	20.304	20.245	(0.996)	109122	3.62168	72.43 (H)
*	77 Perylene-d12	264	20.384	20.325	(1.000)	496914	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	21.714	21.661	(1.065)	48700	1.47051	29.41 (M)
	79 Dibenzo(a,h)anthracene	278	21.752	21.693	(1.067)	14713	0.54092 LDL	10.82 (M)
	80 Benzo(g,h,i)perylene	276	22.024	21.944	(1.080)	39917	1.33813	26.76 (M)
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					
	91 Aniline	93	Compound Not Detected.					
	93 Benzidine	184	Compound Not Detected.					
	103 Pyridine	79	Compound Not Detected.					
	105 1-methylnaphthalene	141	10.181	10.181	(1.148)	11824	0.77404 LDL	15.48
	111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: lr71b2.d
Lab Smp Id: LR71BRE
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt4.i/20071101.b/SW846.m
Misc Info:

Calibration Date: 01-NOV-2007
Calibration Time: 14:35

Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	145384	72692	290768	133446	-8.21
27 Naphthalene-d8	530525	265262	1061050	482322	-9.09
42 Acenaphthene-d10	280701	140350	561402	261814	-6.73
59 Phenanthrene-d10	391934	195967	783868	419690	7.08
69 Chrysene-d12	354658	177329	709316	665106	87.53
134 Di-n-octylphthala	506314	253157	1012628	693549	36.98
77 Perylene-d12	400782	200391	801564	496914	23.99

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.82	6.32	7.32	6.83	0.08
27 Naphthalene-d8	8.87	8.37	9.37	8.87	0.00
42 Acenaphthene-d10	11.68	11.18	12.18	11.68	0.00
59 Phenanthrene-d10	14.00	13.50	14.50	14.01	0.04
69 Chrysene-d12	18.22	17.72	18.72	18.26	0.20
134 Di-n-octylphthala	19.50	19.00	20.00	19.54	0.19
77 Perylene-d12	20.33	19.83	20.83	20.38	0.29

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.

Analytical Resources, Inc.

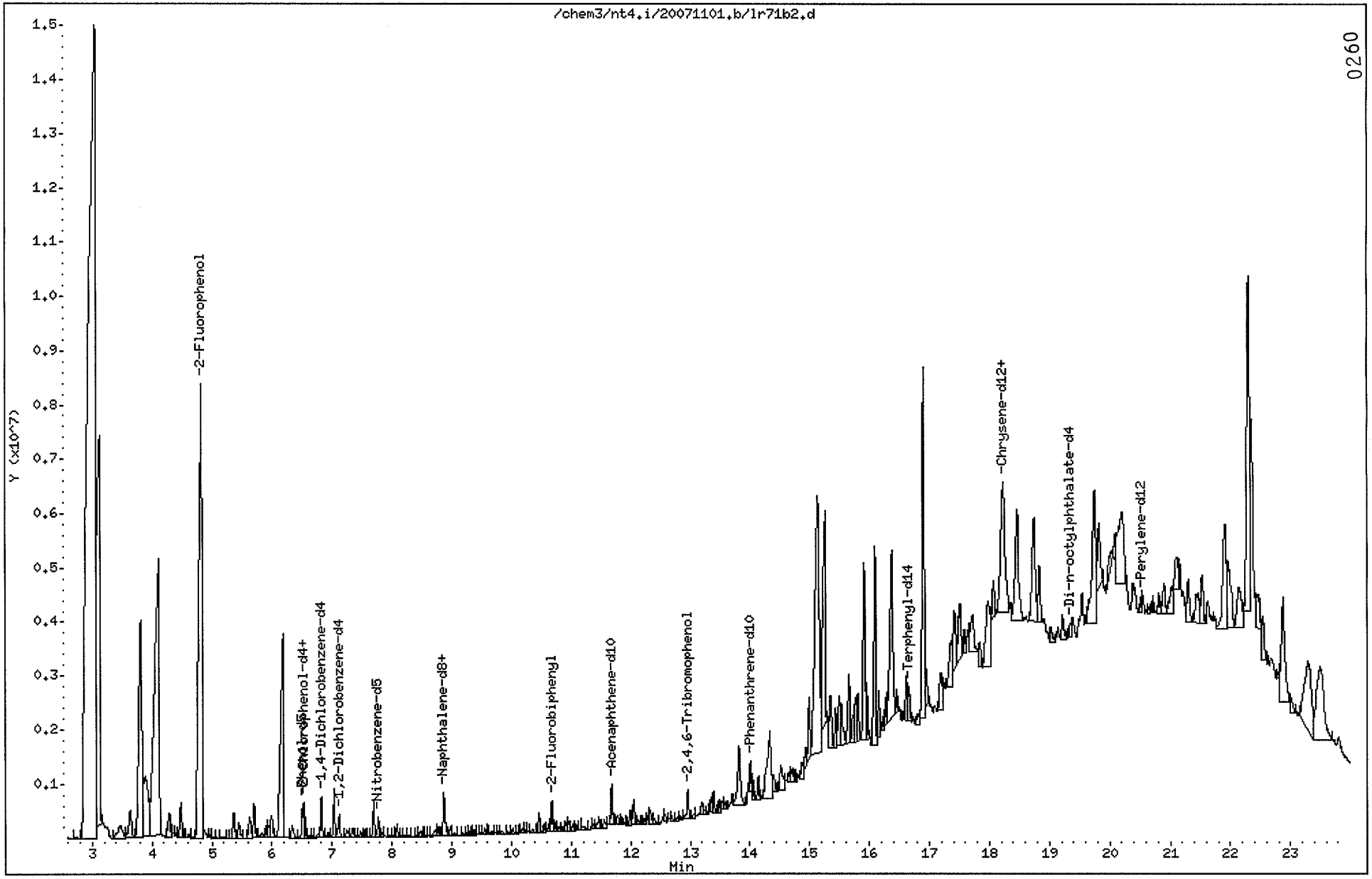
RECOVERY REPORT

Client Name: Client SDG: 20071101
Sample Matrix: SOLID Fraction: SV
Lab Smp Id: LR71BRE
Level: LOW Operator: VTS
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: PSDDALCS.spk Quant Type: ISTD
Sublist File: PSDDA.sub
Method File: /chem3/nt4.i/20071101.b/SW846.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	750.0	355.1	47.34	11-84
$ 2 Phenol-d5	750.0	450.8	60.10	25-86
$ 5 2-Chlorophenol-d4	750.0	445.9	59.45	23-91
$ 10 1,2-Dichlorobenzen	500.0	255.8	51.16	24-90
$ 18 Nitrobenzene-d5	500.0	287.1	57.42	26-88
$ 36 2-Fluorobiphenyl	500.0	288.3	57.66	34-91
$ 55 2,4,6-Tribromophen	750.0	495.2	66.02	25-107
$ 66 Terphenyl-d14	500.0	212.5	42.49	22-100

Data File: /chem3/nt4.i/20071101.b/lr71b2.d
Date : 01-NOV-2007 17:11
Client ID:
Sample Info: LR71BRE
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt4.i
Operator: VTS
Column diameter: 0.32



Data File: /chem3/nt4.i/20071101.b/lr71b2.d

Date : 01-NOV-2007 17:11

Client ID:

Instrument: nt4.i

Sample Info: LR71BRE

Volume Injected (uL): 1.0

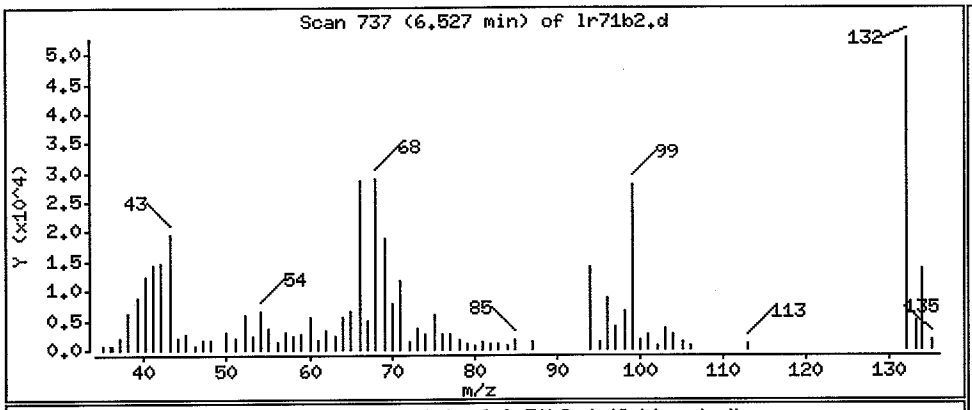
Operator: VTS

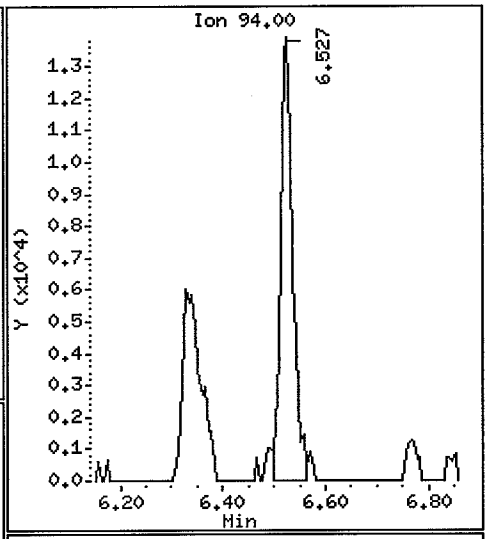
Column phase: ZB-5

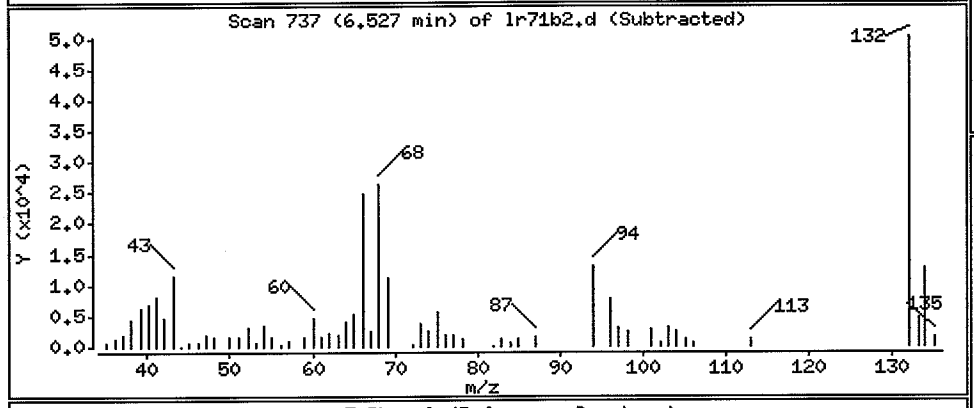
Column diameter: 0.32

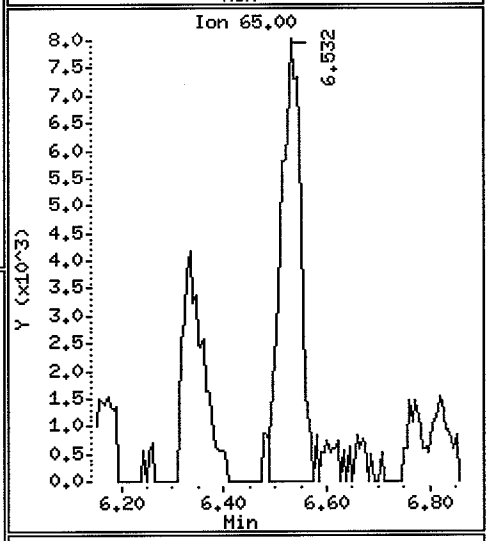
3 Phenol

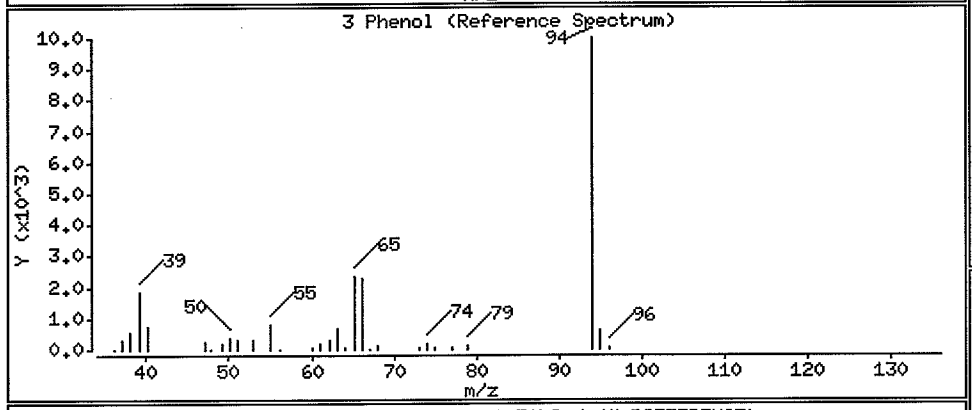
Concentration: 29.33 ug/Kg

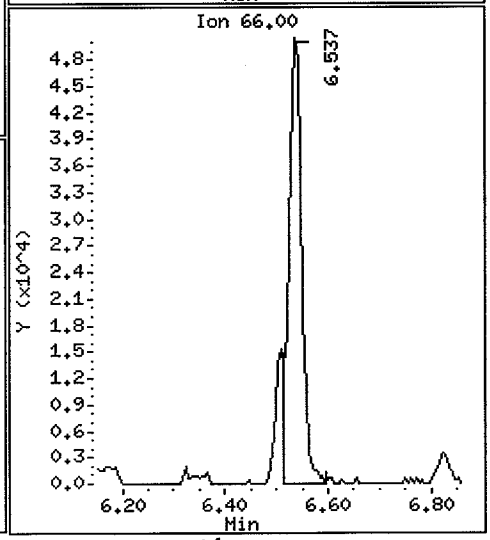


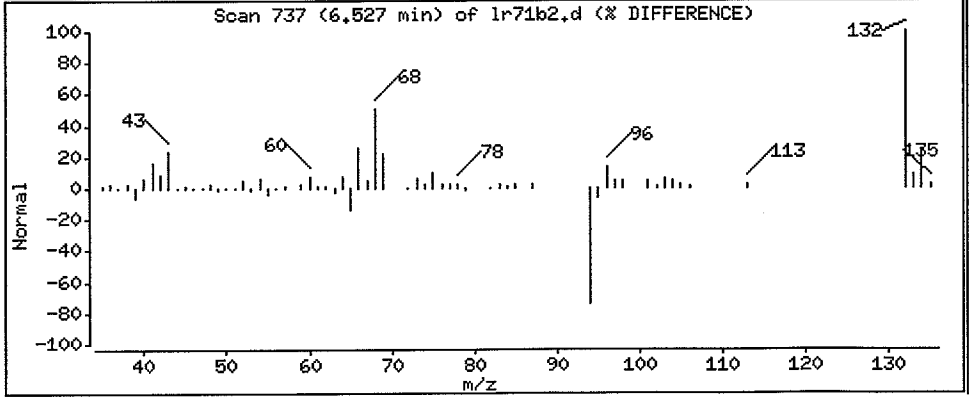












Data File: /chem3/nt4.i/20071101.b/lr71b2.d

Date : 01-NOV-2007 17:11

Client ID:

Instrument: nt4.i

Sample Info: LR71BRE

Volume Injected (uL): 1.0

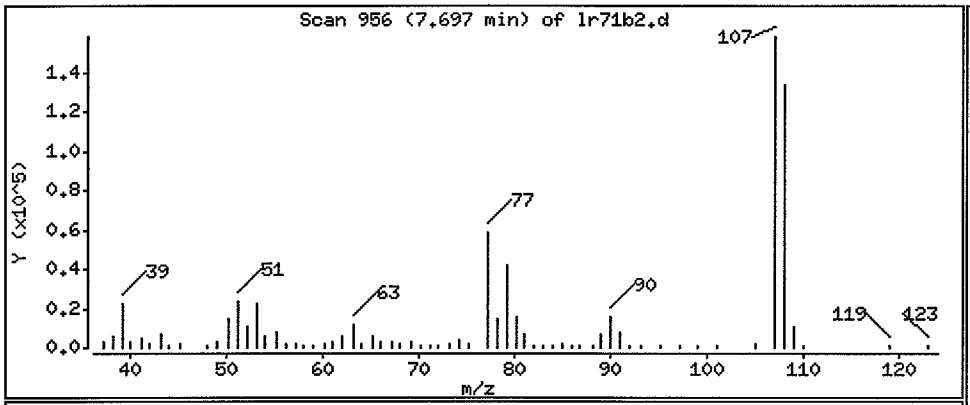
Operator: VTS

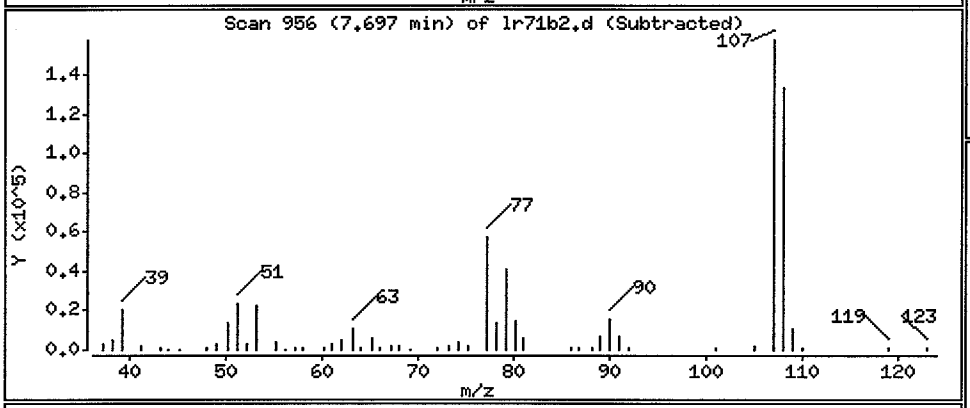
Column phase: ZB-5

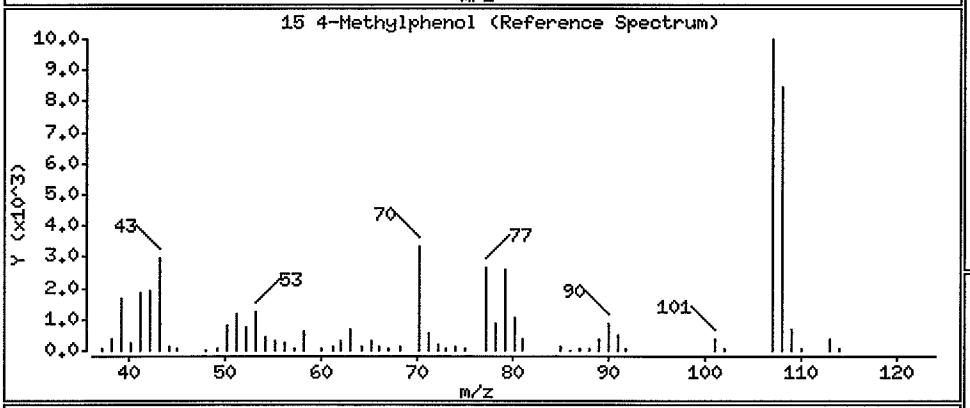
Column diameter: 0.32

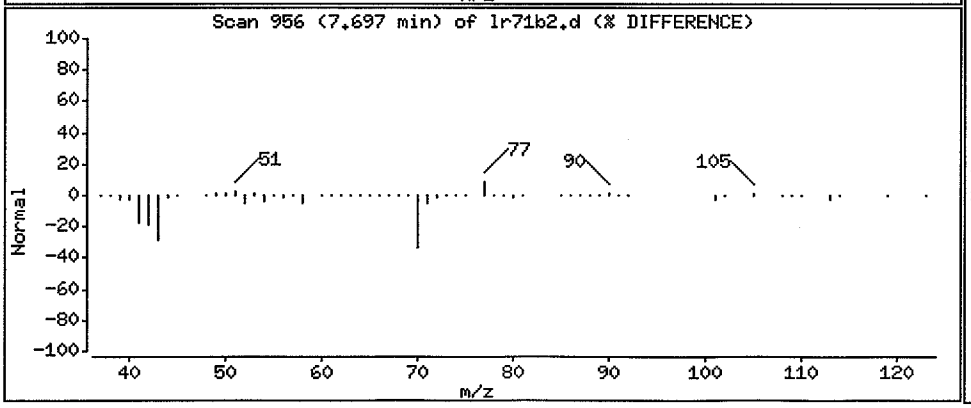
15 4-Methylphenol

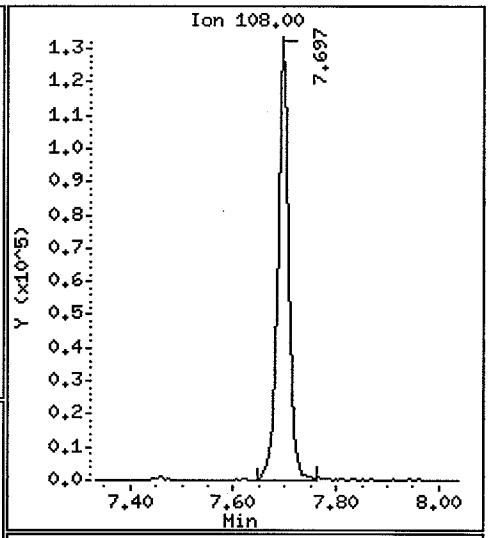
Concentration: 394.4 ug/Kg

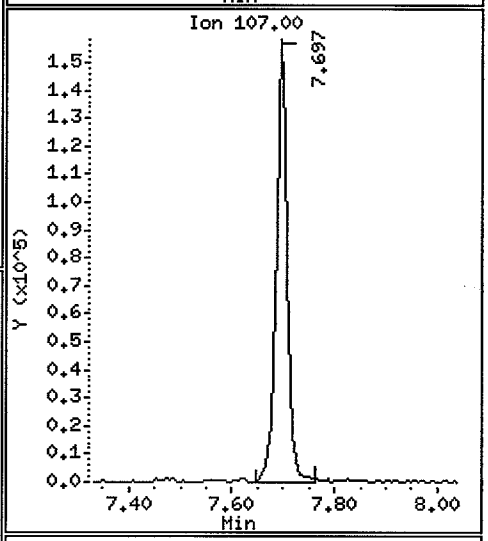


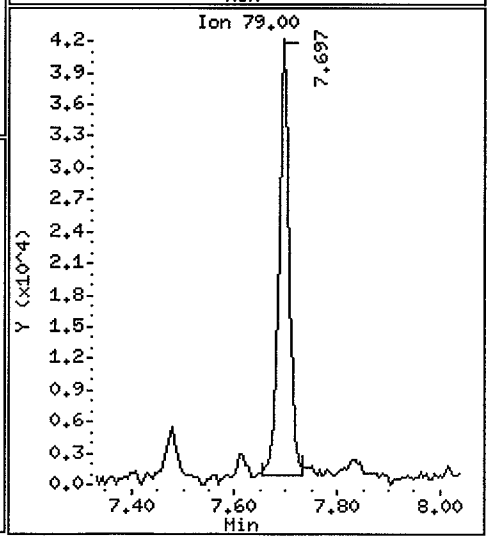












Data File: /chem3/nt4.i/20071101.b/lr71b2.d

Date : 01-NOV-2007 17:11

Client ID:

Instrument: nt4.i

Sample Info: LR71BRE

Volume Injected (uL): 1.0

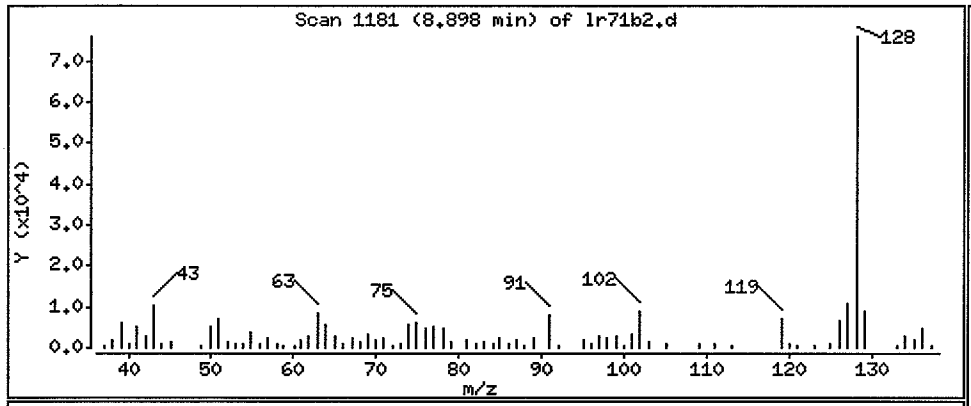
Operator: VTS

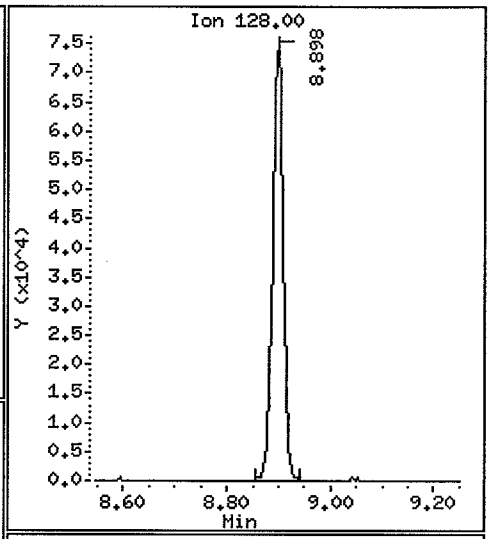
Column phase: ZB-5

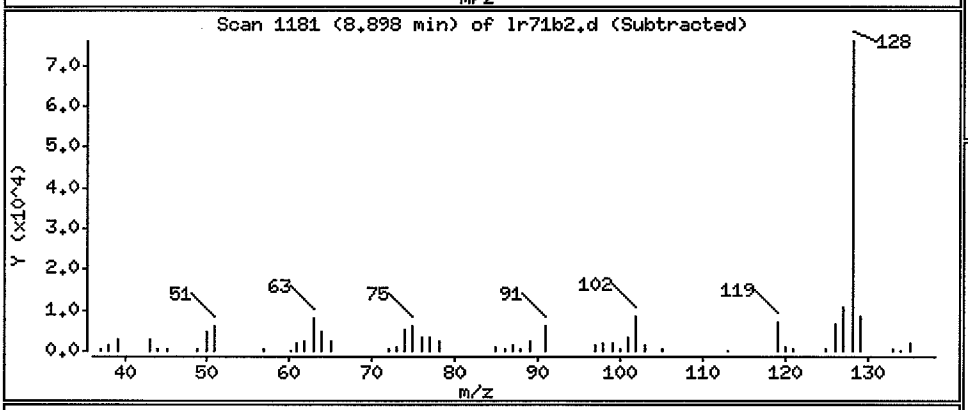
Column diameter: 0.32

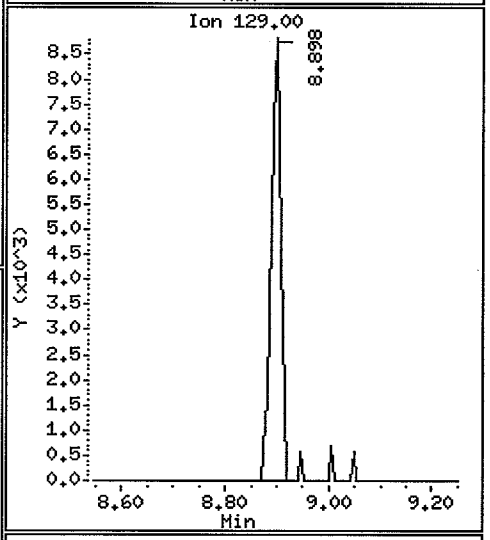
28 Naphthalene

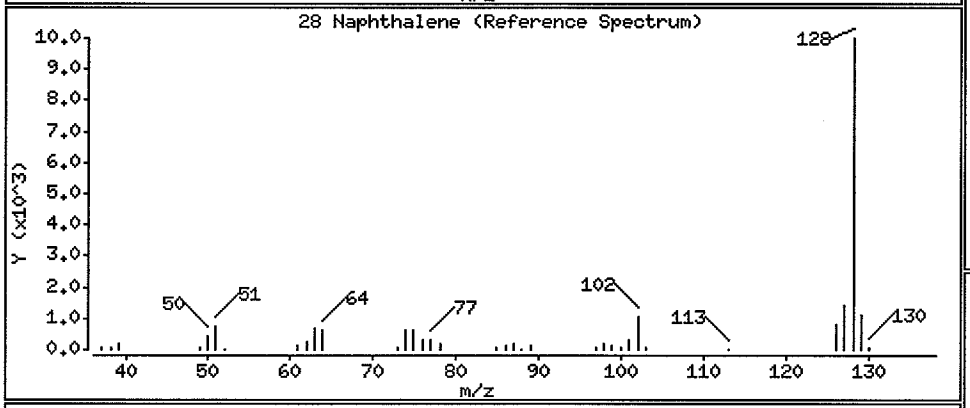
Concentration: 73.91 ug/Kg

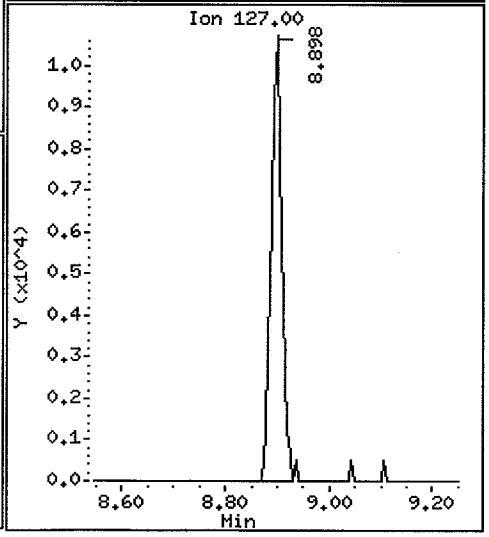


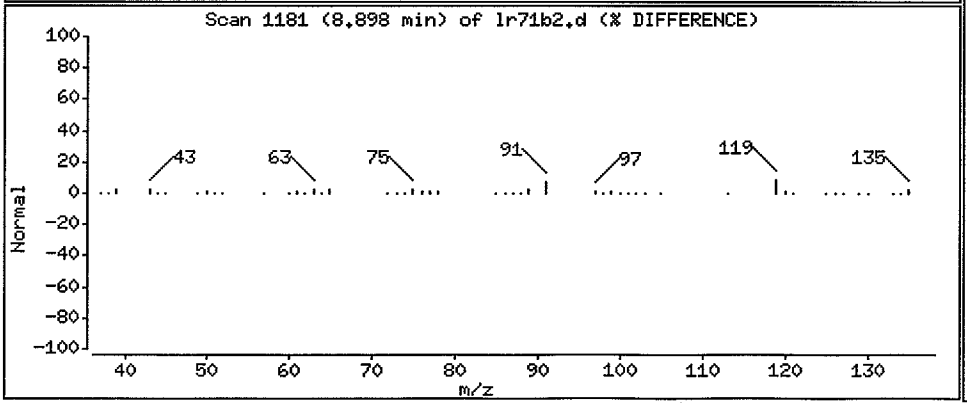












Data File: /chem3/nt4.i/20071101.b/lr71b2.d

Date : 01-NOV-2007 17:11

Client ID:

Instrument: nt4.i

Sample Info: LR71BRE

Volume Injected (uL): 1.0

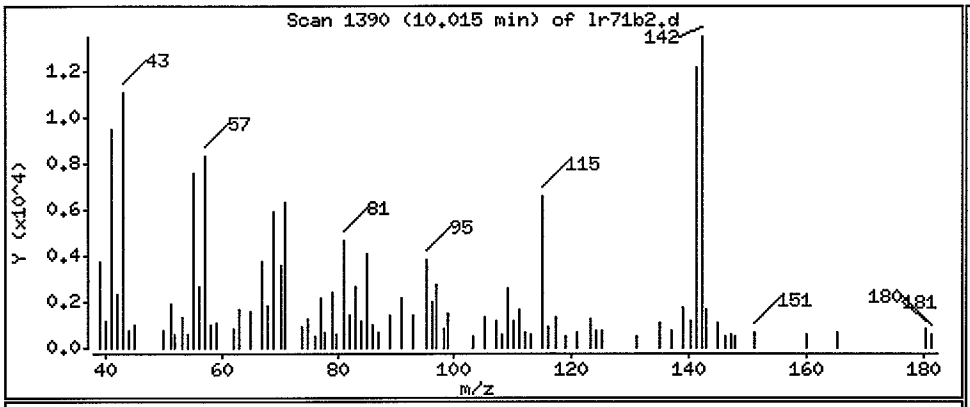
Operator: VTS

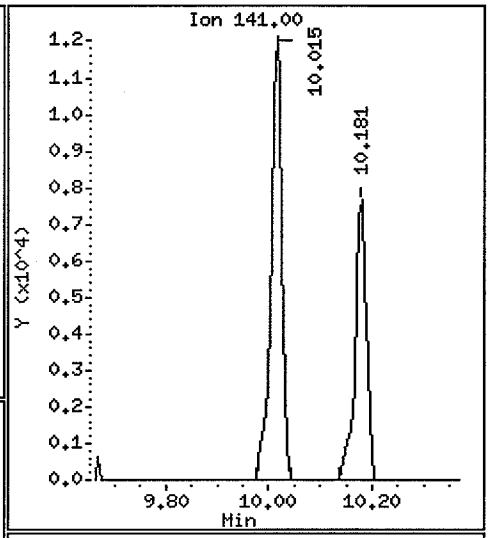
Column phase: ZB-5

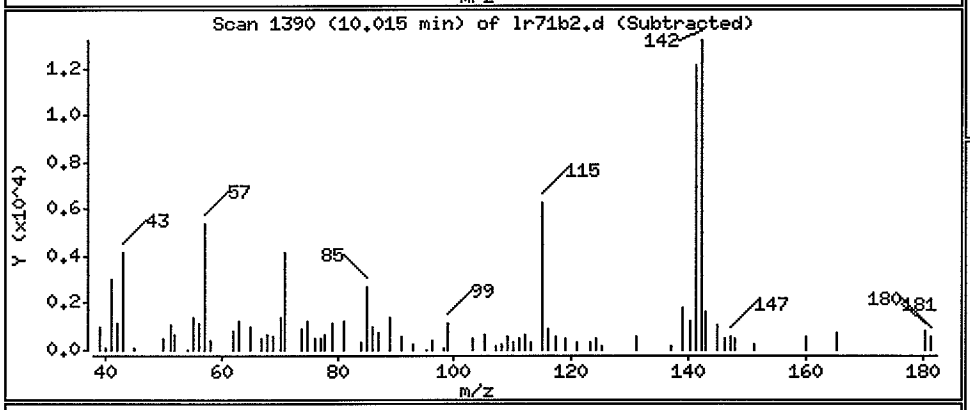
Column diameter: 0.32

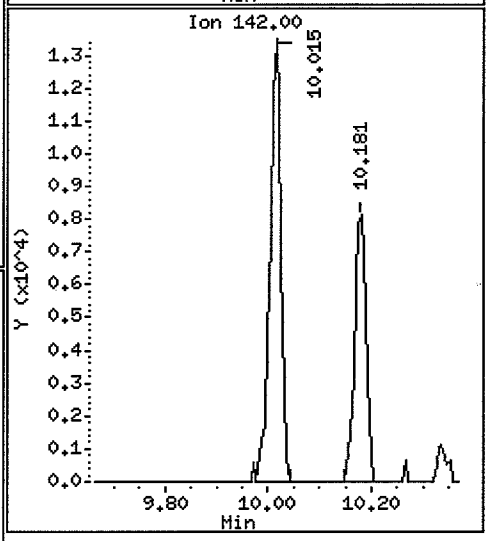
32 2-Methylnaphthalene

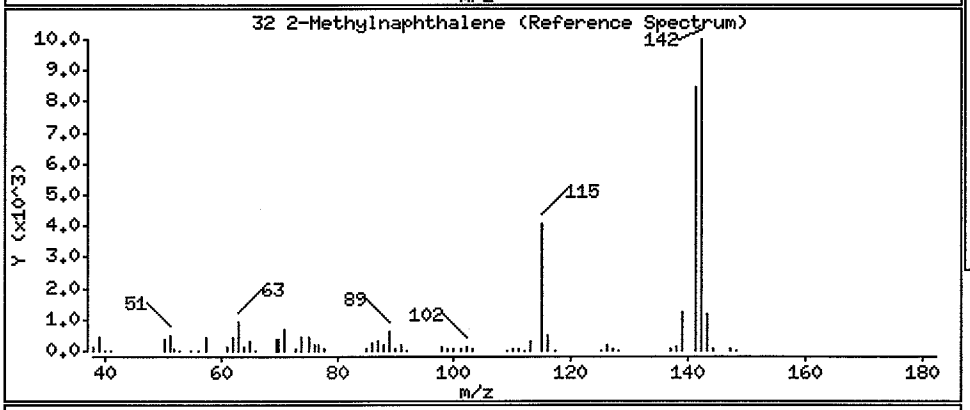
Concentration: 23.93 ug/Kg

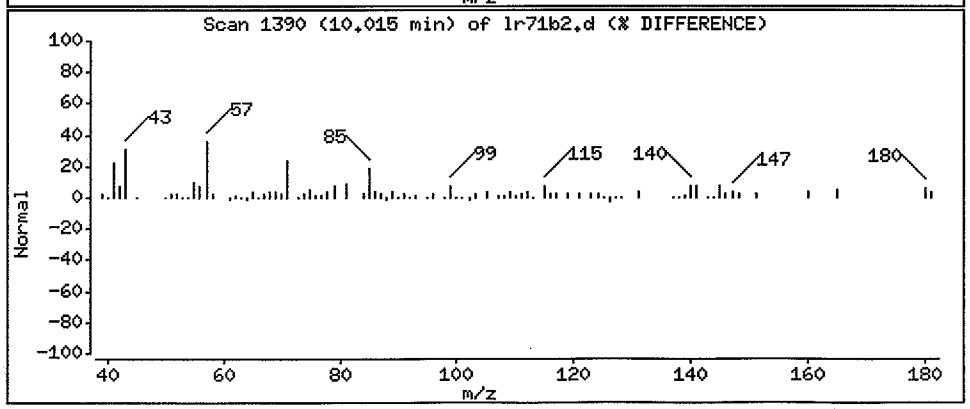












Data File: /chem3/nt4.i/20071101.b/lr71b2.d

Date : 01-NOV-2007 17:11

Client ID:

Instrument: nt4.i

Sample Info: LR71BRE

Volume Injected (uL): 1.0

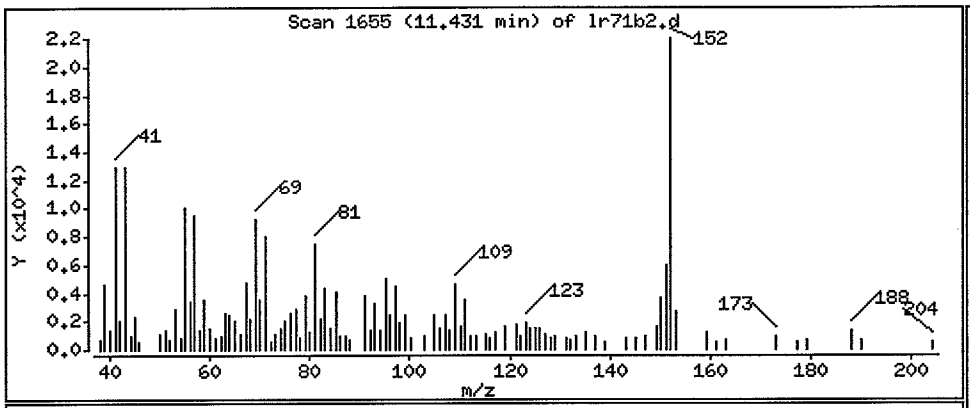
Operator: VTS

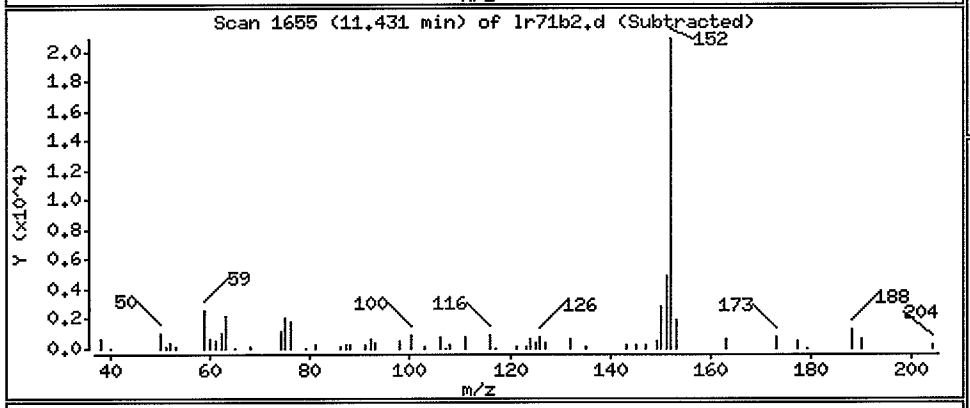
Column phase: ZB-5

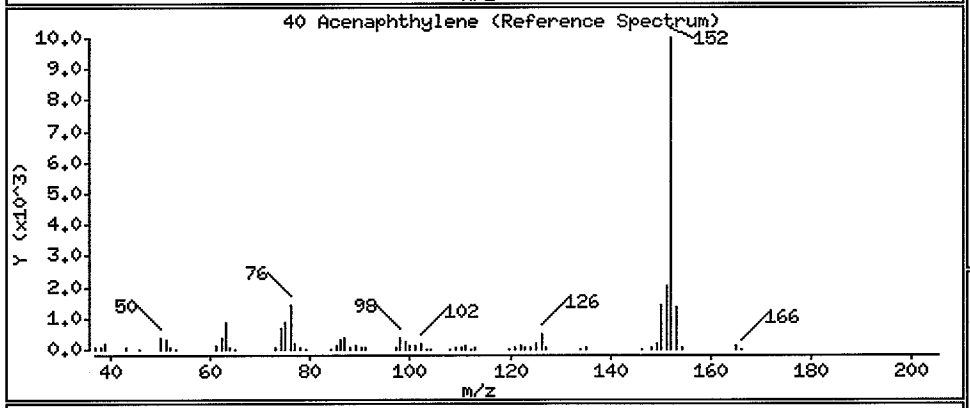
Column diameter: 0.32

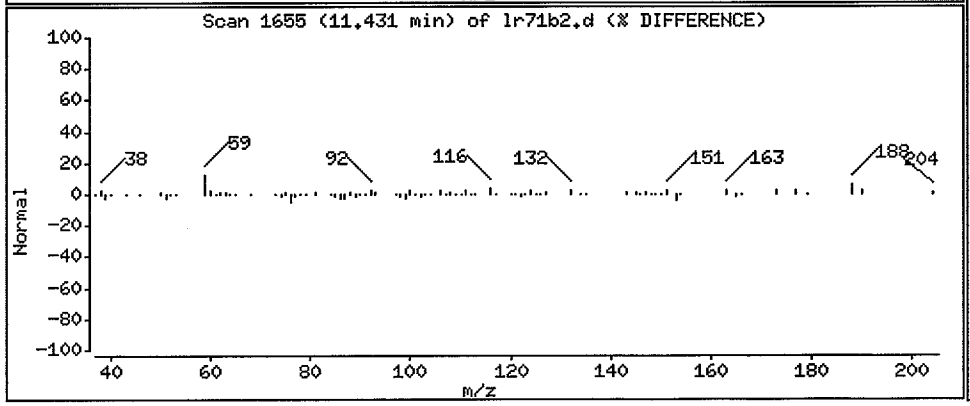
40 Acenaphthylene

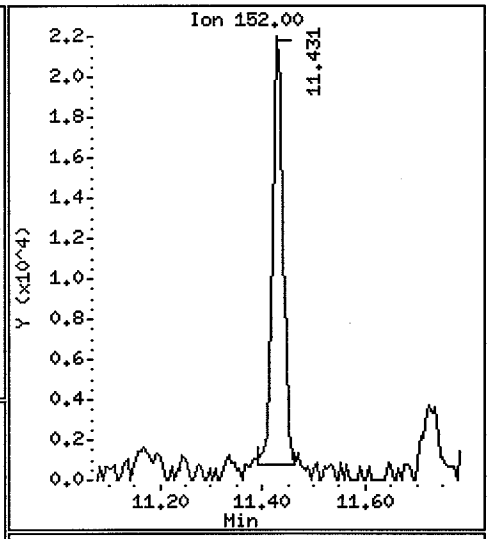
Concentration: 23.69 ug/Kg

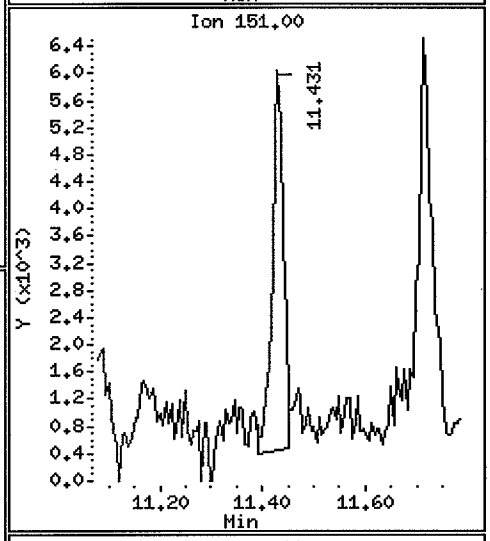


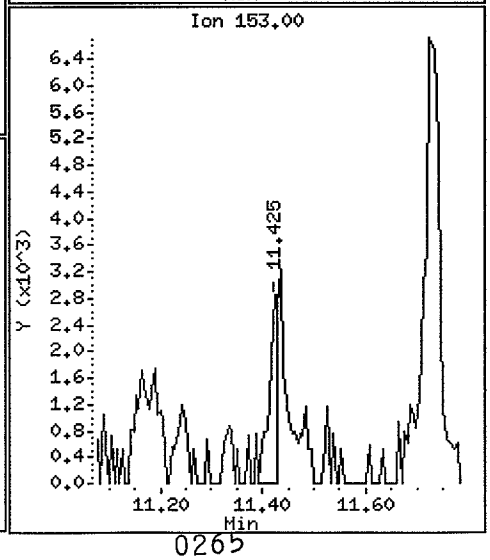












Data File: /chem3/nt4.i/20071101.b/lr71b2.d

Date : 01-NOV-2007 17:11

Client ID:

Instrument: nt4.i

Sample Info: LR71BRE

Volume Injected (uL): 1.0

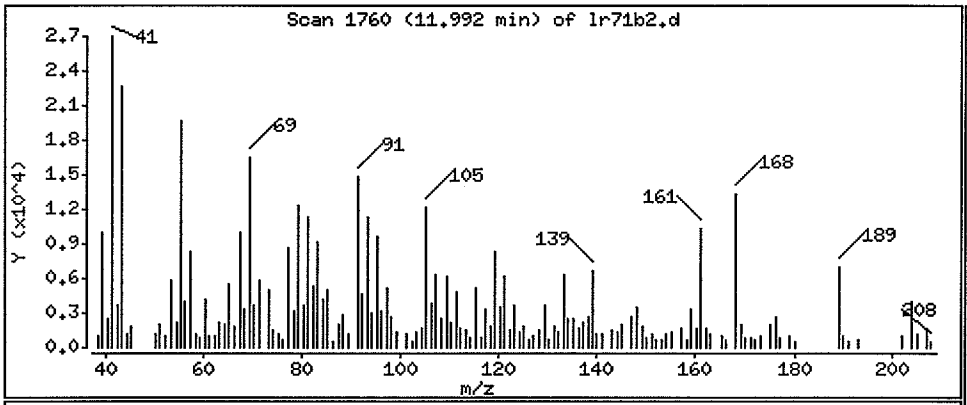
Operator: VTS

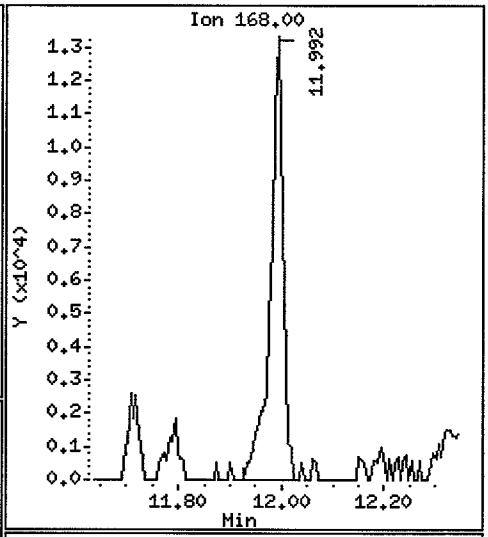
Column phase: ZB-5

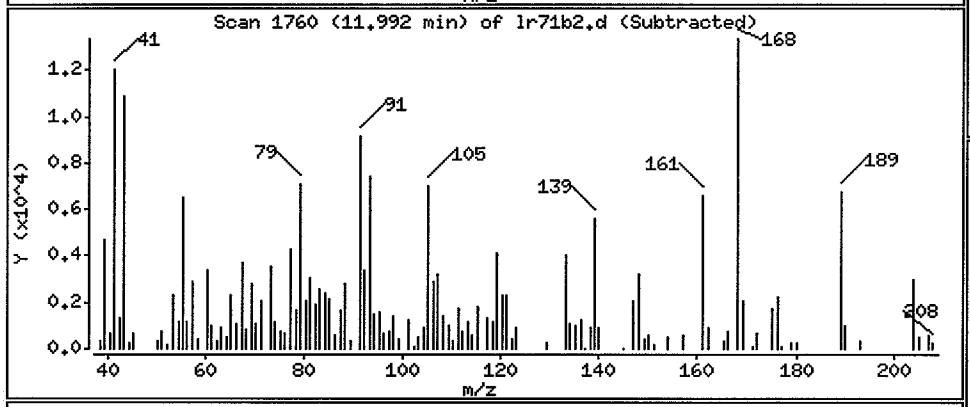
Column diameter: 0.32

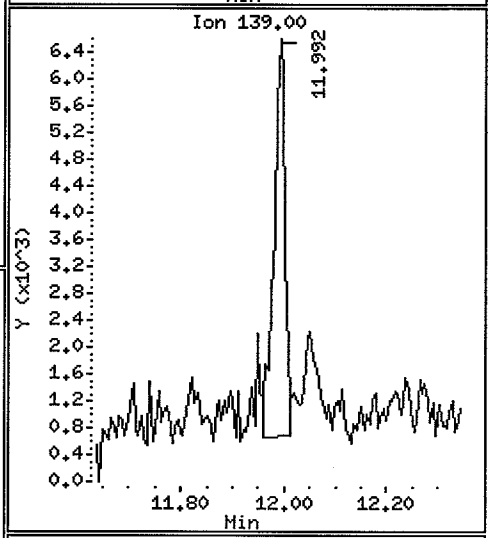
46 Dibenzofuran

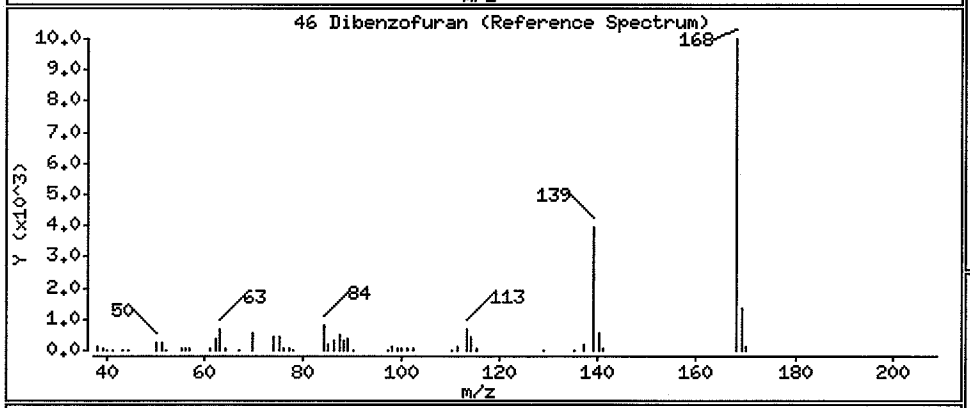
Concentration: 20.79 ug/Kg

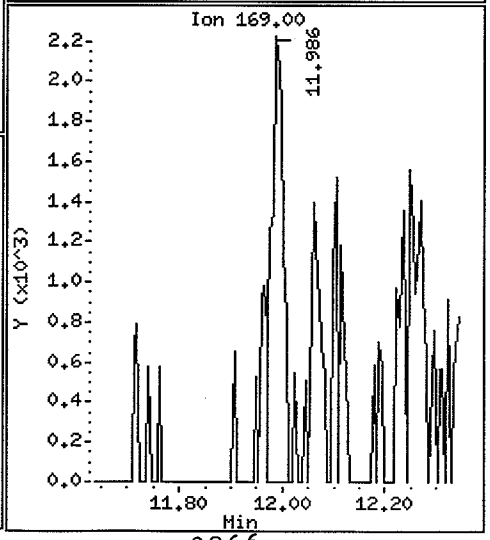


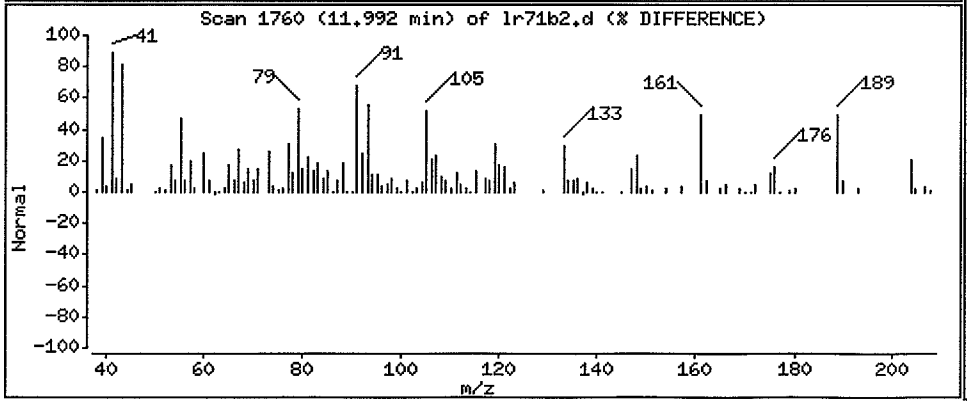












Data File: /chem3/nt4.i/20071101.b/lr71b2.d

Date : 01-NOV-2007 17:11

Client ID:

Instrument: nt4.i

Sample Info: LR71BRE

Volume Injected (uL): 1.0

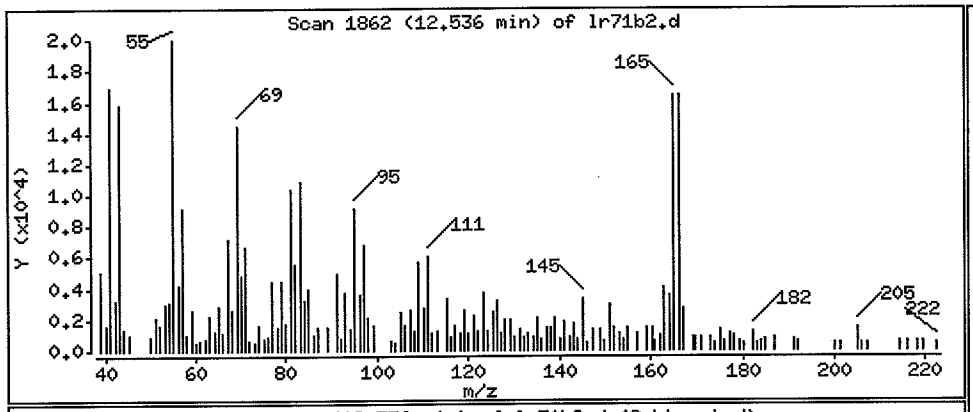
Operator: VTS

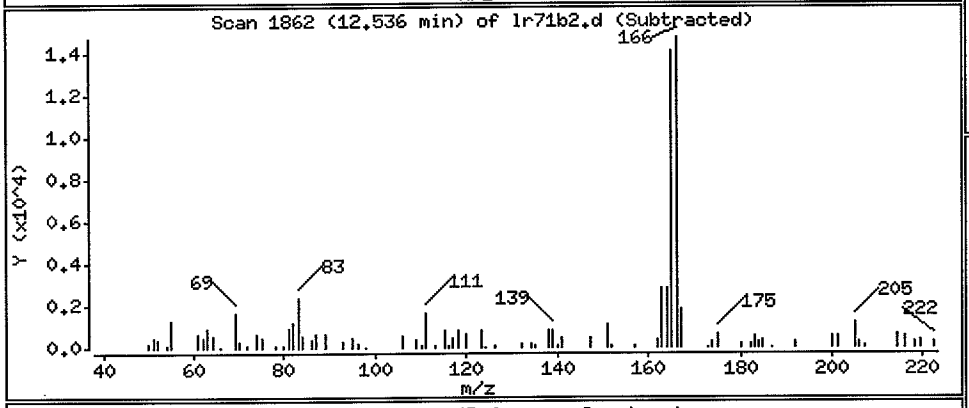
Column phase: ZB-5

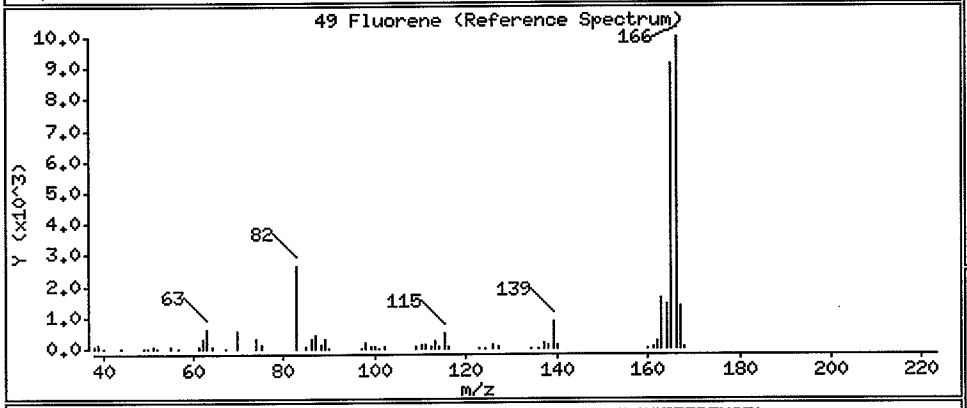
Column diameter: 0.32

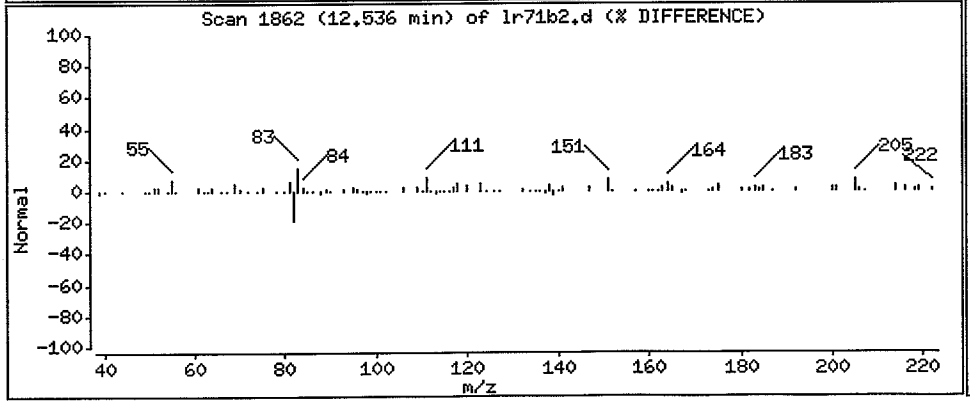
49 Fluorene

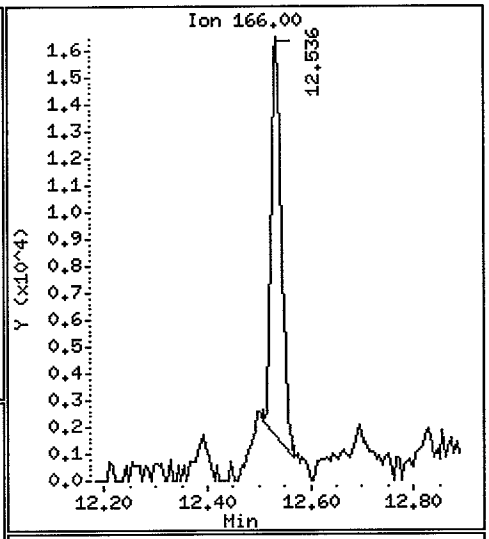
Concentration: 22.33 ug/Kg

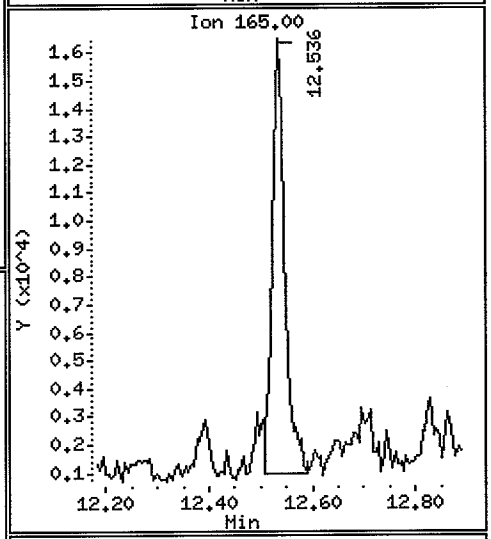


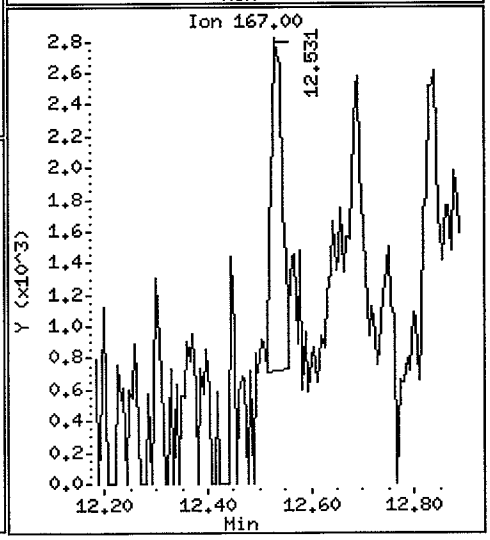












Data File: /chem3/nt4.i/20071101.b/lr71b2.d

Date : 01-NOV-2007 17:11

Client ID:

Instrument: nt4.i

Sample Info: LR71BRE

Volume Injected (uL): 1.0

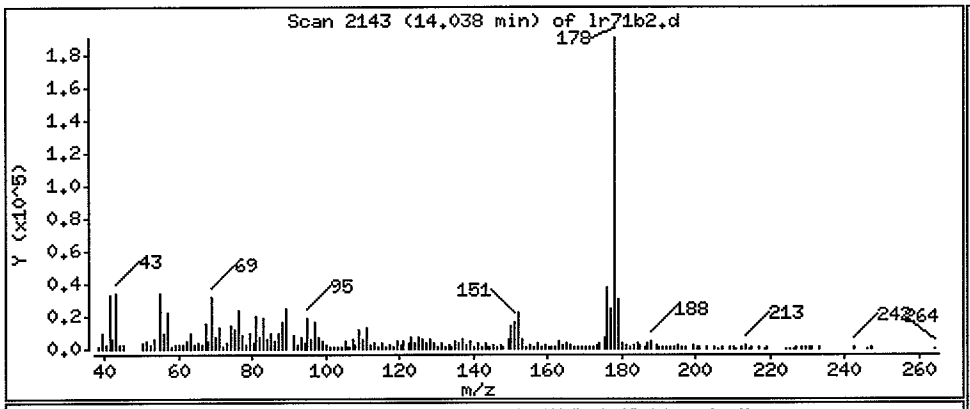
Operator: VTS

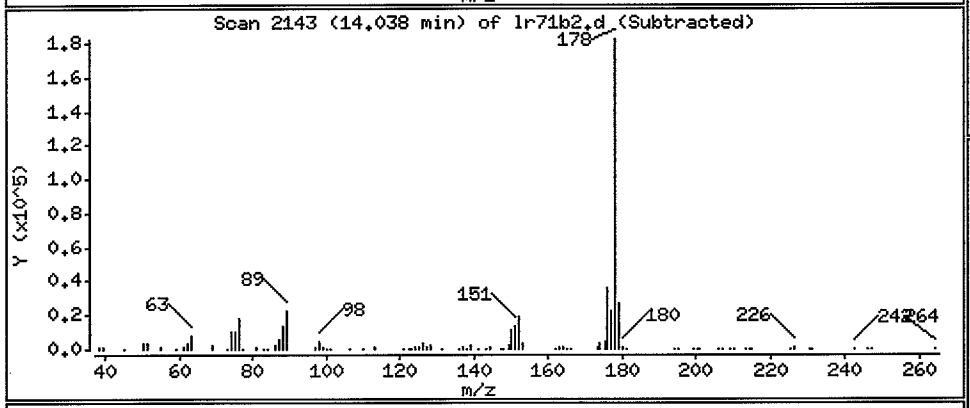
Column phase: ZB-5

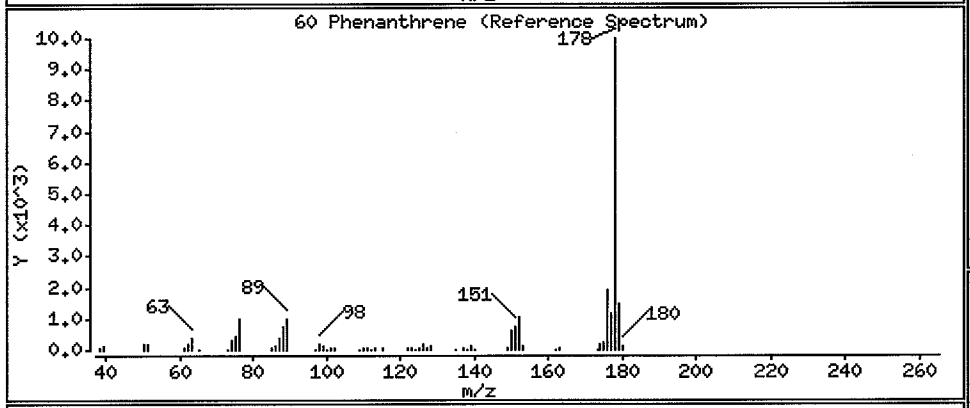
Column diameter: 0.32

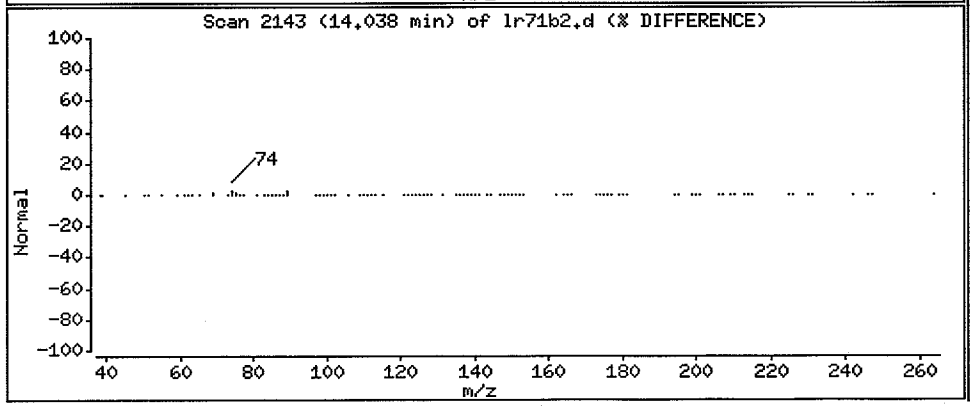
60 Phenanthrene

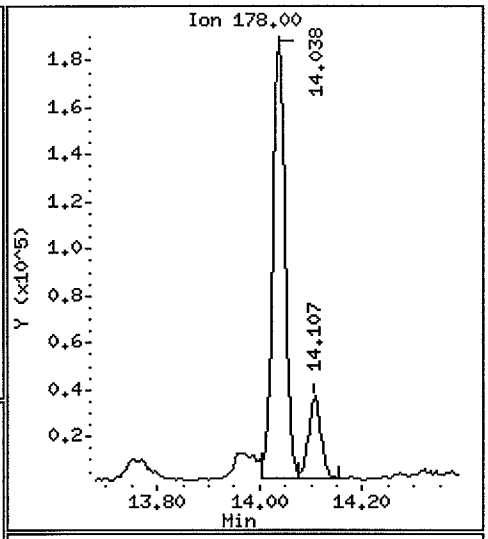
Concentration: 214.4 ug/Kg

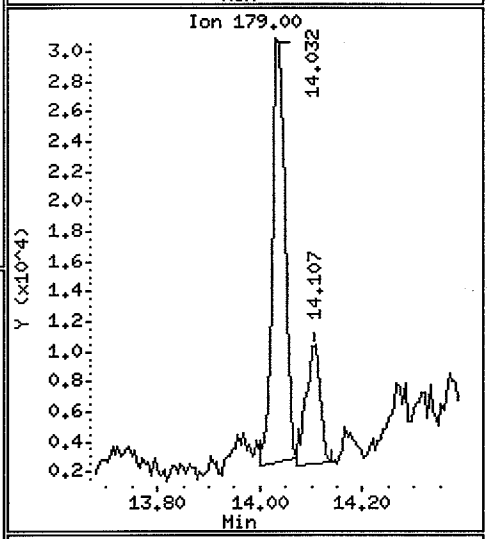


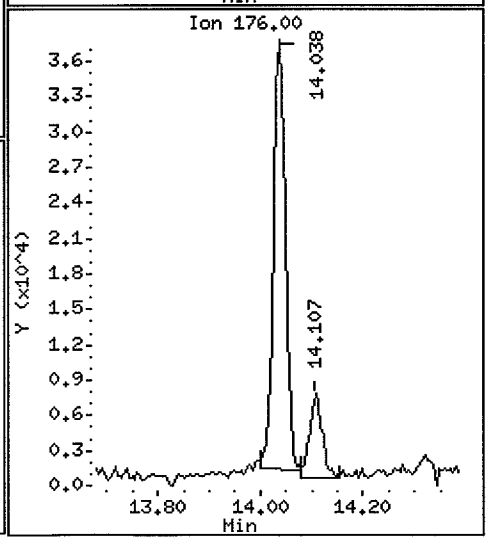












Data File: /chem3/nt4.i/20071101.b/lr71b2.d

Date : 01-NOV-2007 17:11

Client ID:

Instrument: nt4.i

Sample Info: LR71BRE

Volume Injected (uL): 1.0

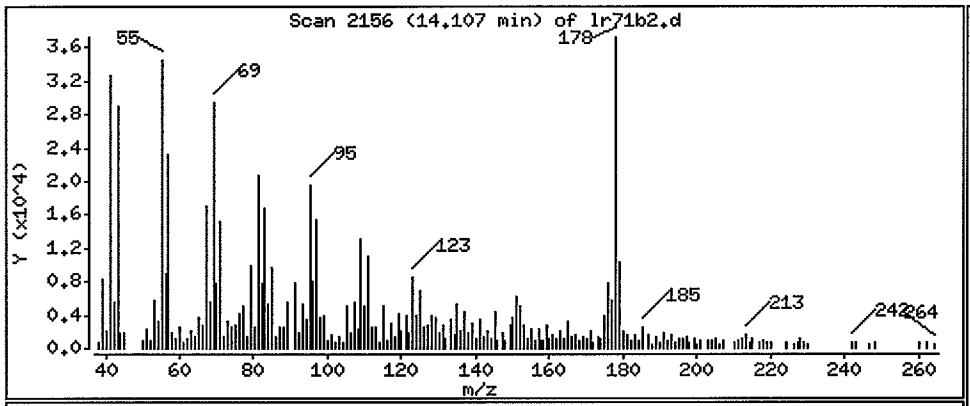
Operator: VTS

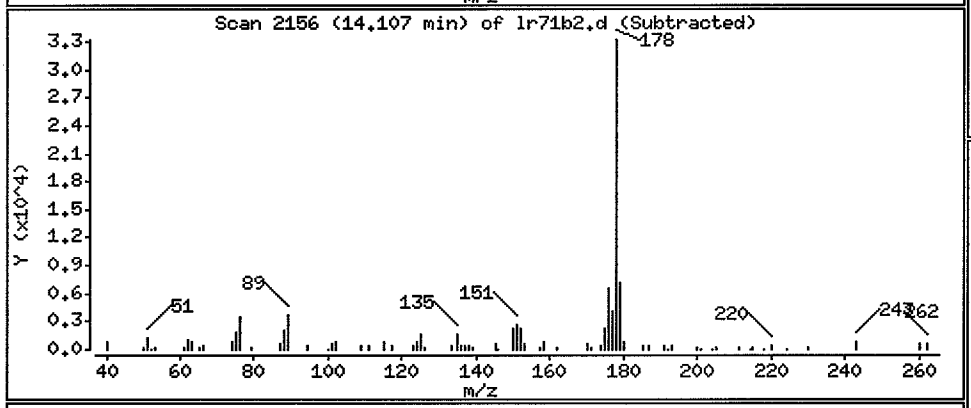
Column phase: ZB-5

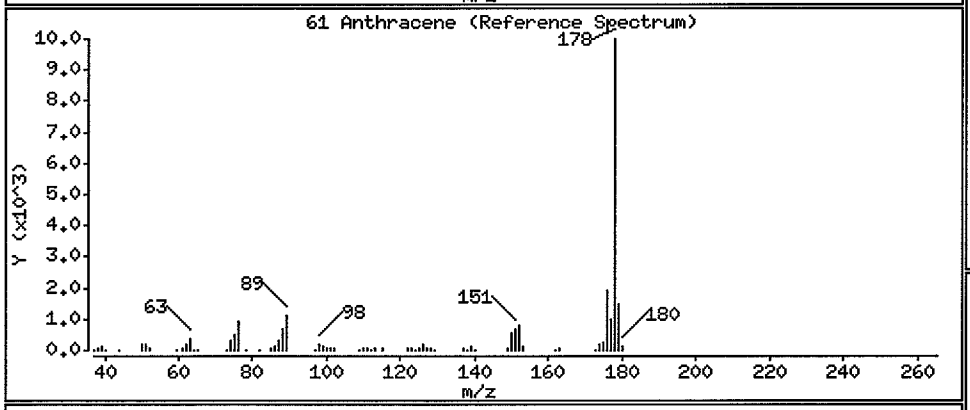
Column diameter: 0.32

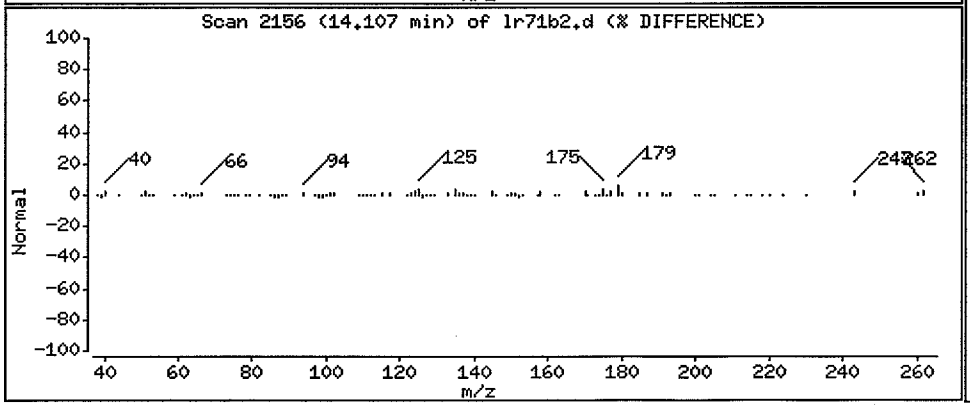
61 Anthracene

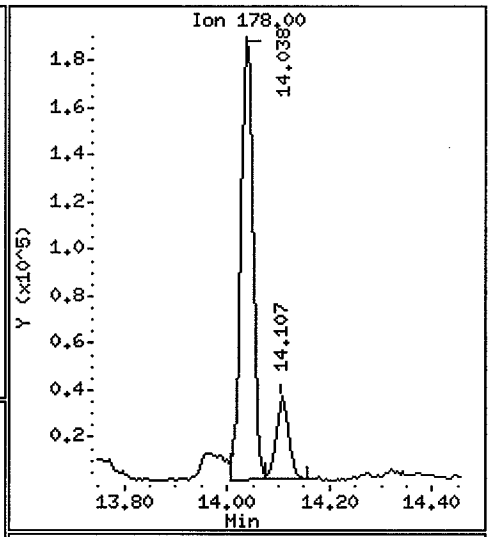
Concentration: 41.49 ug/Kg

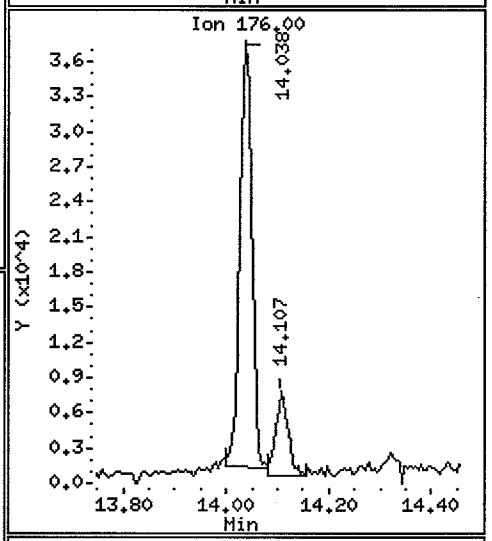


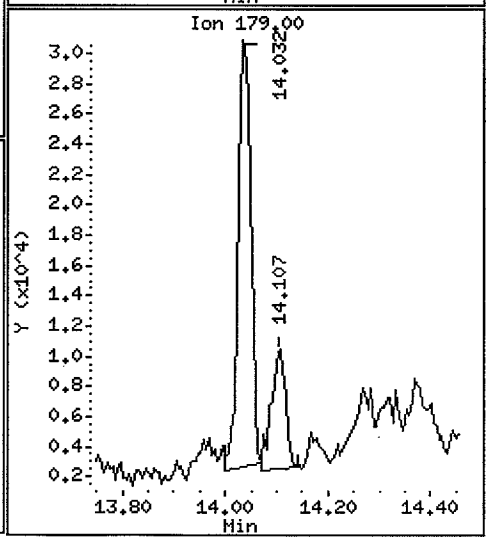












Data File: /chem3/nt4.i/20071101.b/lr71b2.d

Date : 01-NOV-2007 17:11

Client ID:

Instrument: nt4.i

Sample Info: LR71BRE

Volume Injected (uL): 1.0

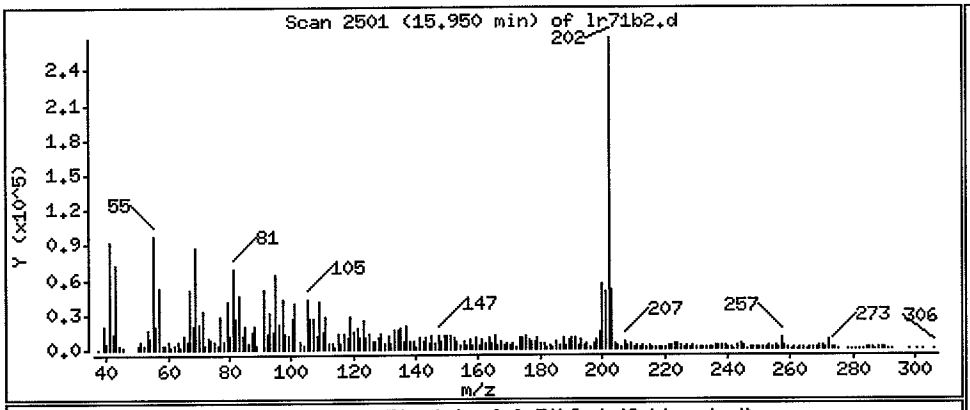
Operator: VTS

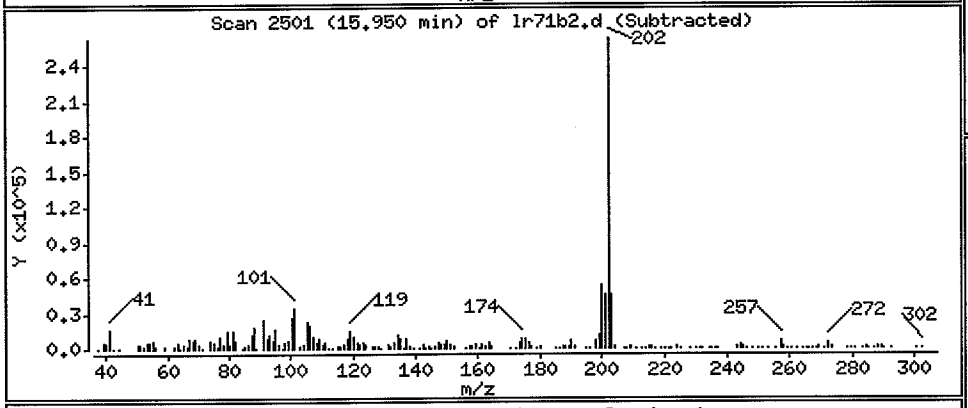
Column phase: ZB-5

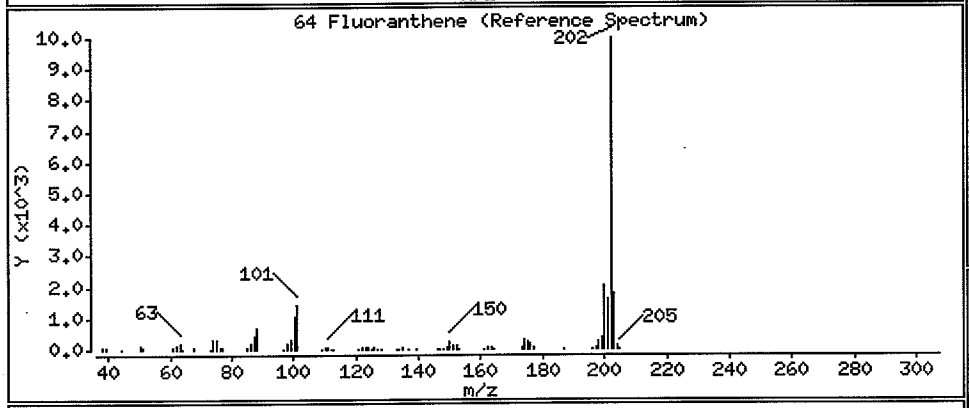
Column diameter: 0.32

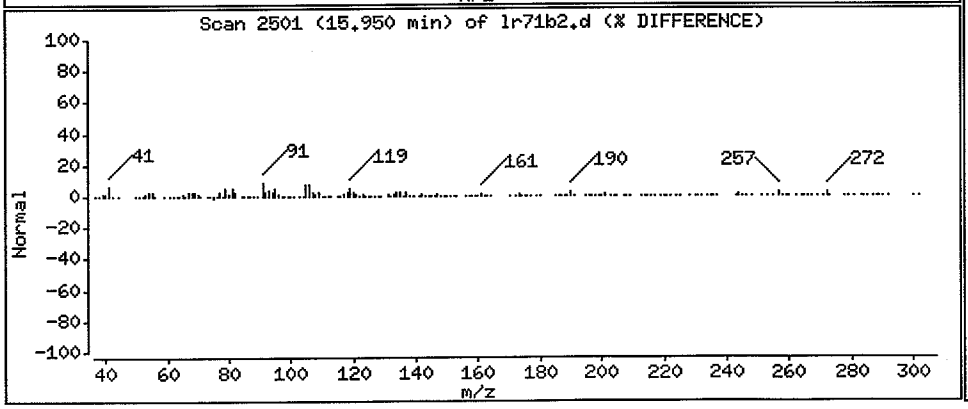
64 Fluoranthene

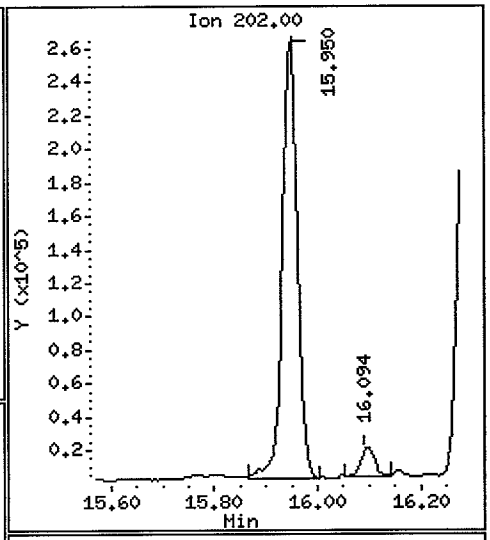
Concentration: 340.4 ug/Kg

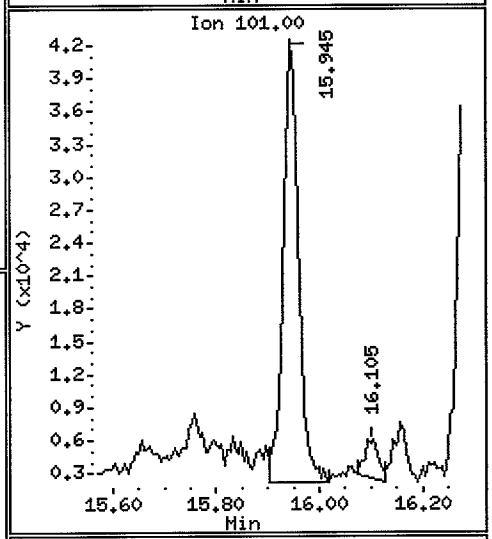


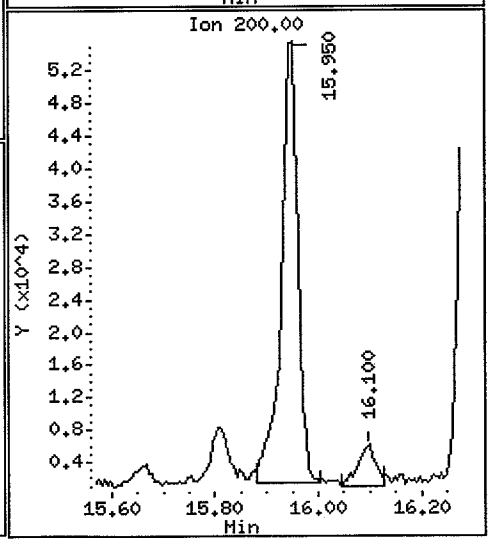












Data File: /chem3/nt4.i/20071101.b/lr71b2.d

Date : 01-NOV-2007 17:11

Client ID:

Instrument: nt4.i

Sample Info: LR71BRE

Volume Injected (uL): 1.0

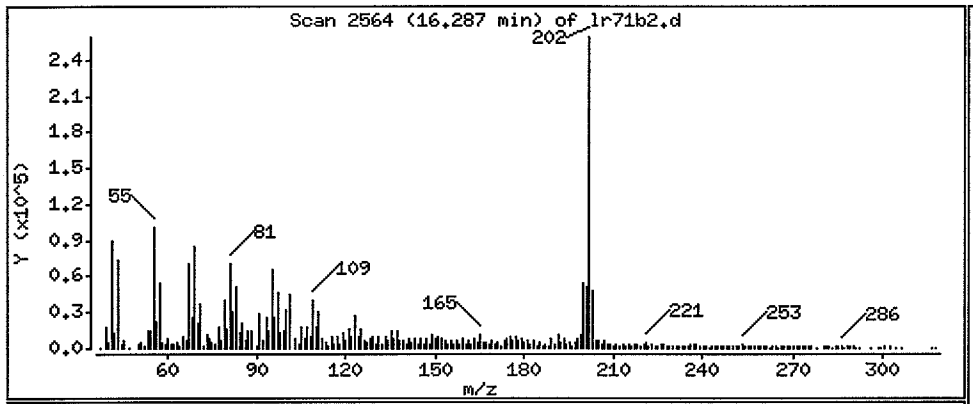
Operator: VTS

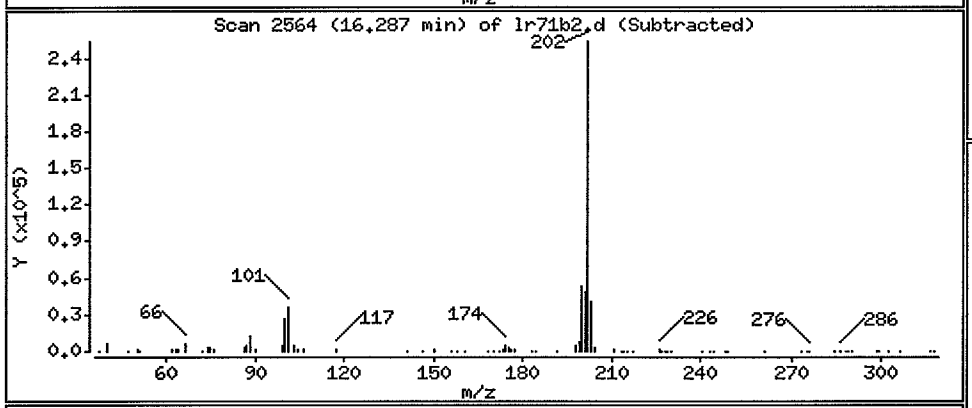
Column phase: ZB-5

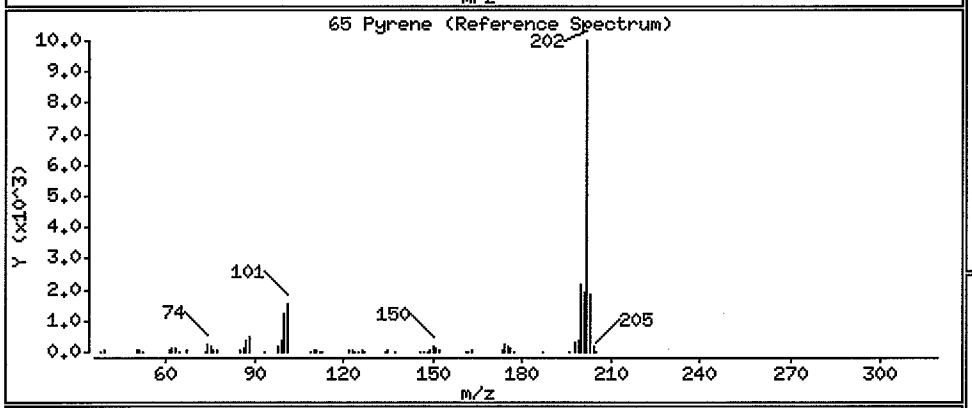
Column diameter: 0.32

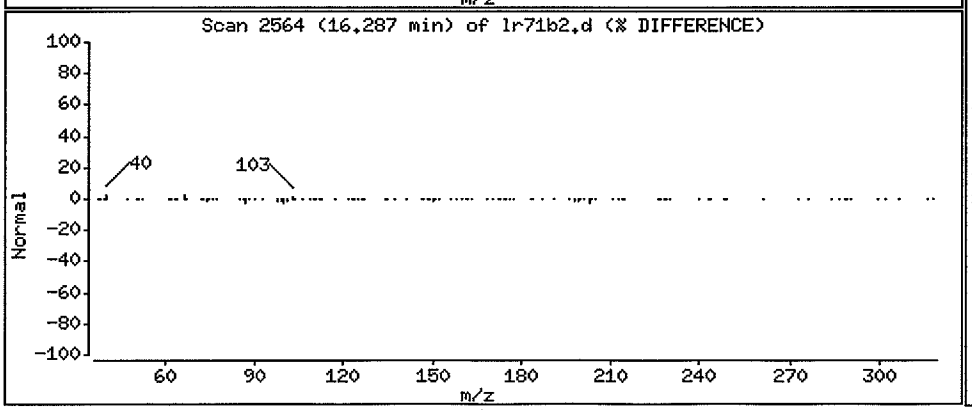
65 Pyrene

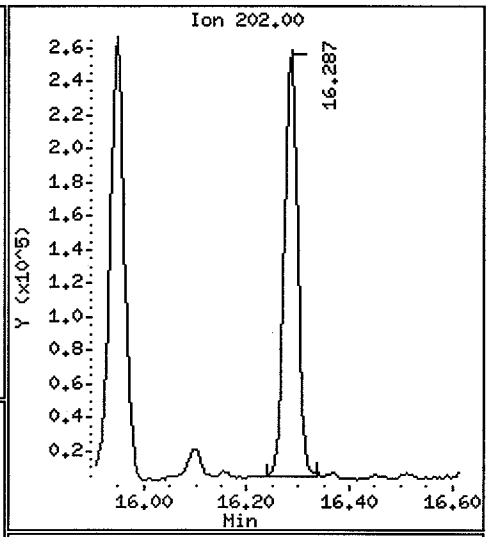
Concentration: 169.5 ug/Kg

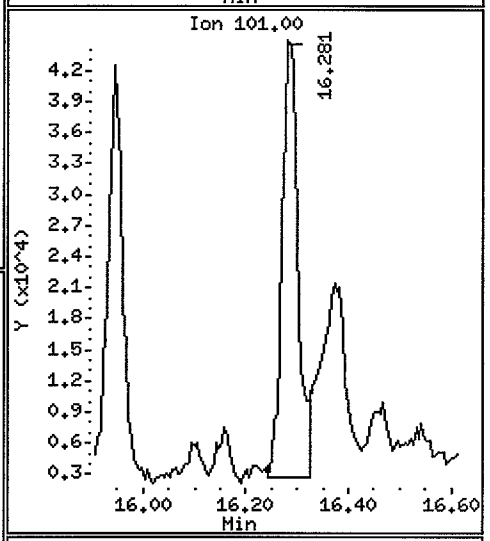


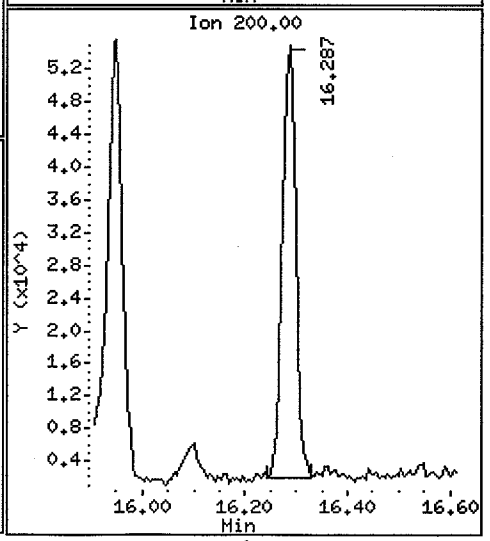












Data File: /chem3/nt4.i/20071101.b/lr71b2.d

Date : 01-NOV-2007 17:11

Client ID:

Instrument: nt4.i

Sample Info: LR71BRE

Volume Injected (uL): 1.0

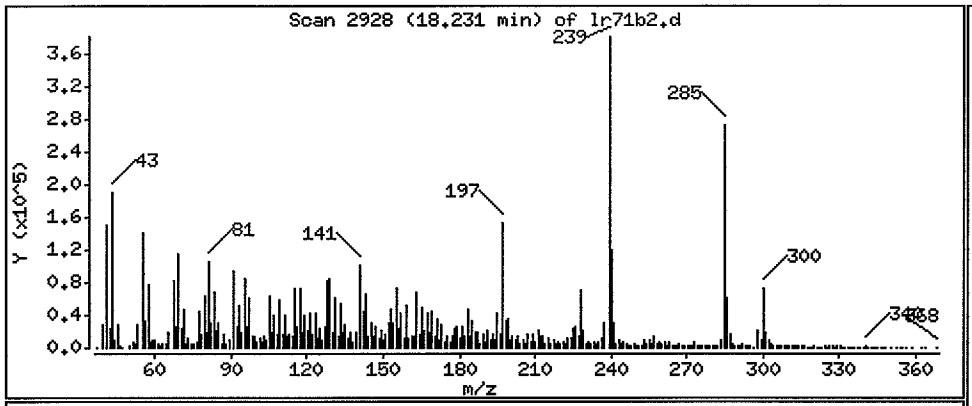
Operator: VTS

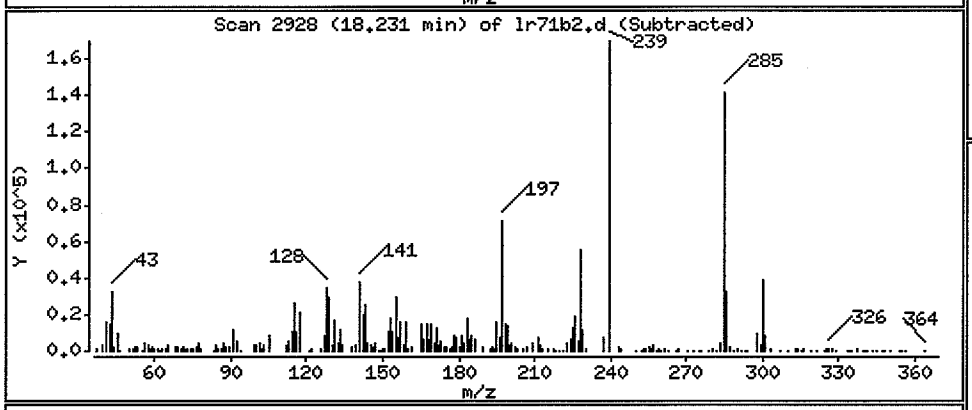
Column phase: ZB-5

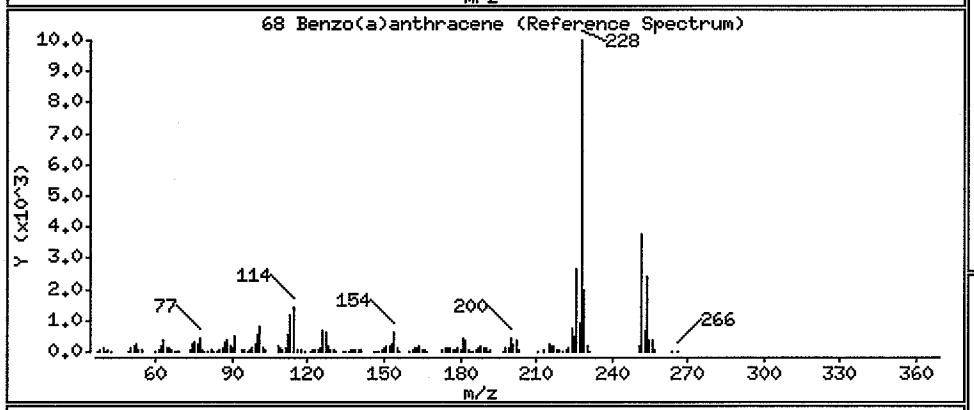
Column diameter: 0.32

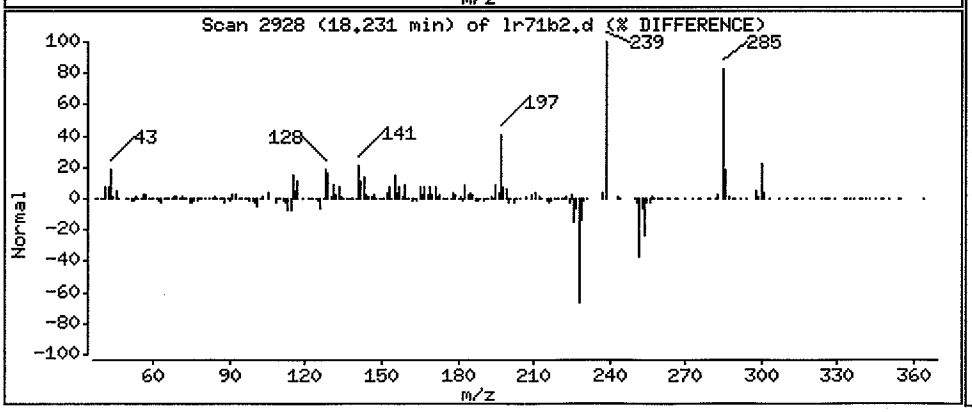
68 Benzo(a)anthracene

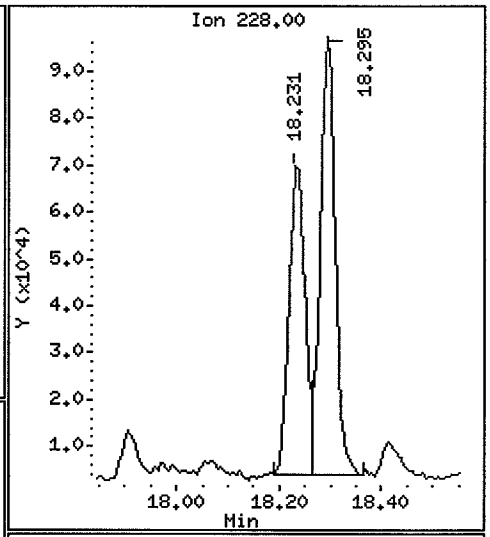
Concentration: 59.07 ug/Kg

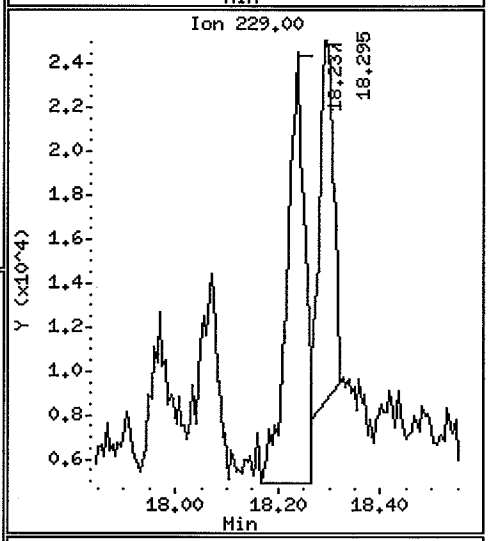


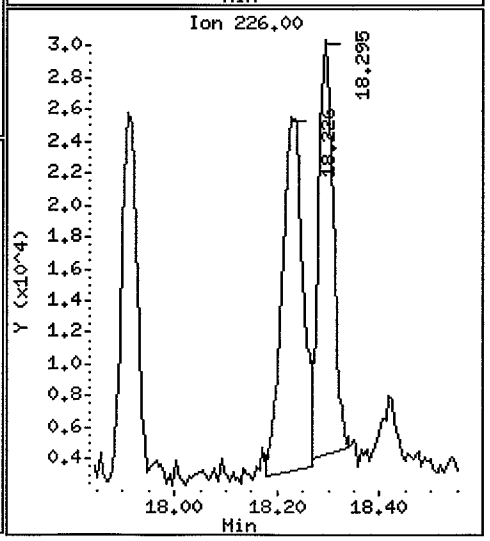












Data File: /chem3/nt4.i/20071101.b/lr71b2.d

Date : 01-NOV-2007 17:11

Client ID:

Instrument: nt4.i

Sample Info: LR71BRE

Volume Injected (uL): 1.0

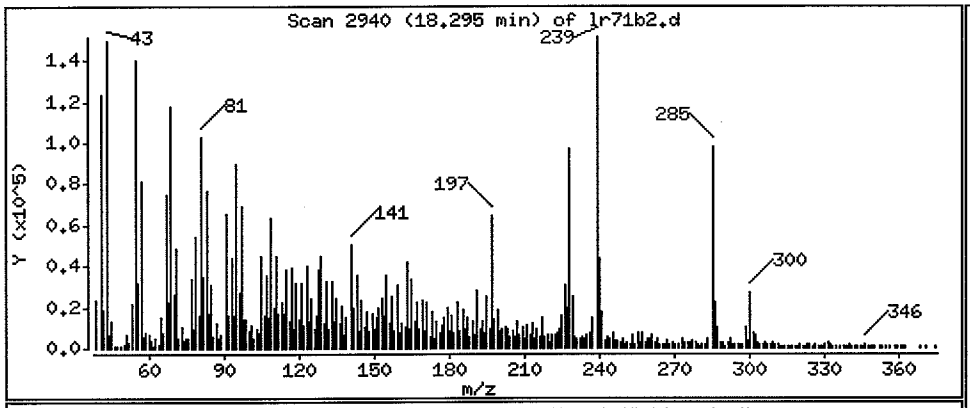
Operator: VTS

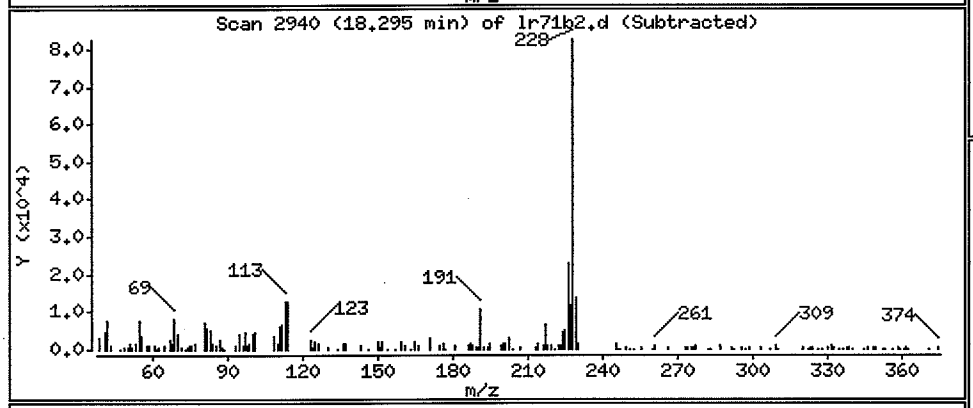
Column phase: ZB-5

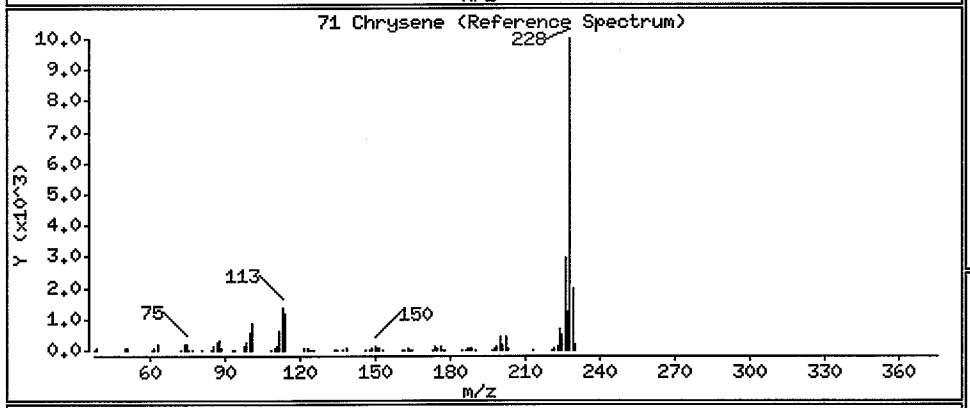
Column diameter: 0.32

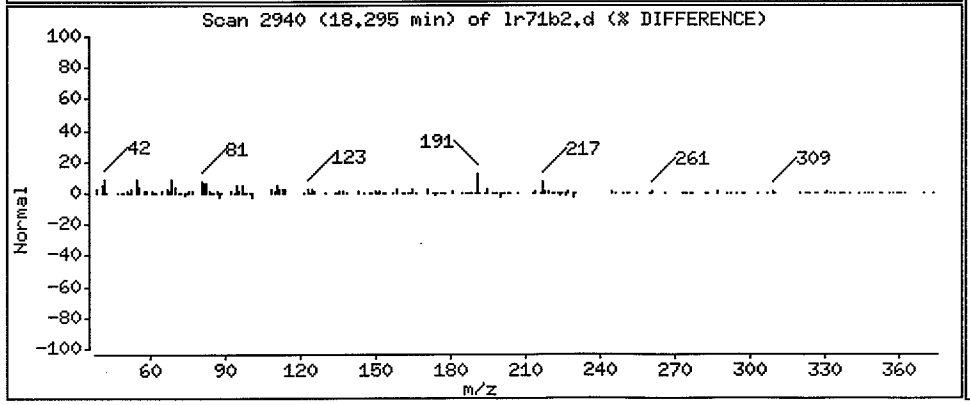
71 Chrysene

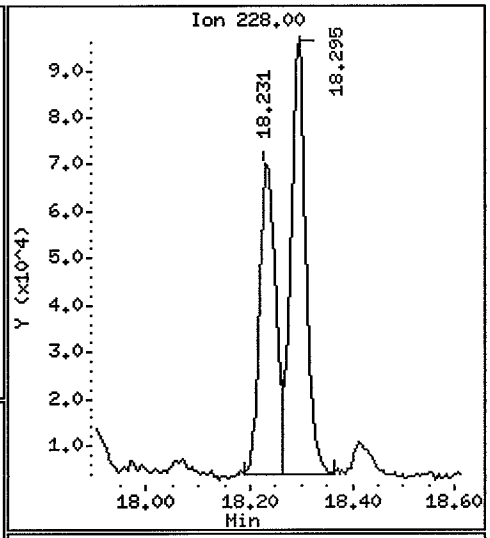
Concentration: 79.27 ug/Kg

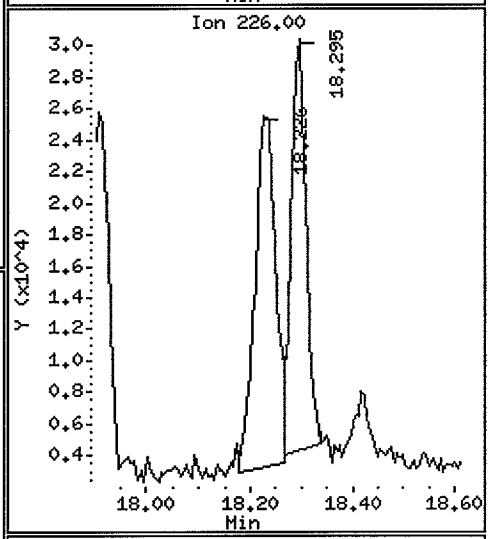


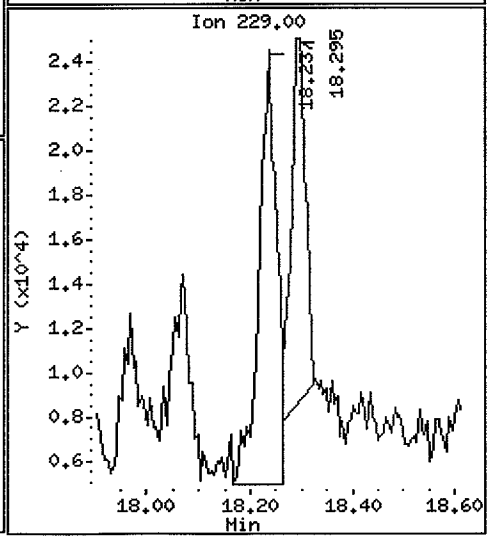












Data File: /chem3/nt4.i/20071101.b/lr71b2.d

Date : 01-NOV-2007 17:11

Client ID:

Instrument: nt4.i

Sample Info: LR71BRE

Volume Injected (uL): 1.0

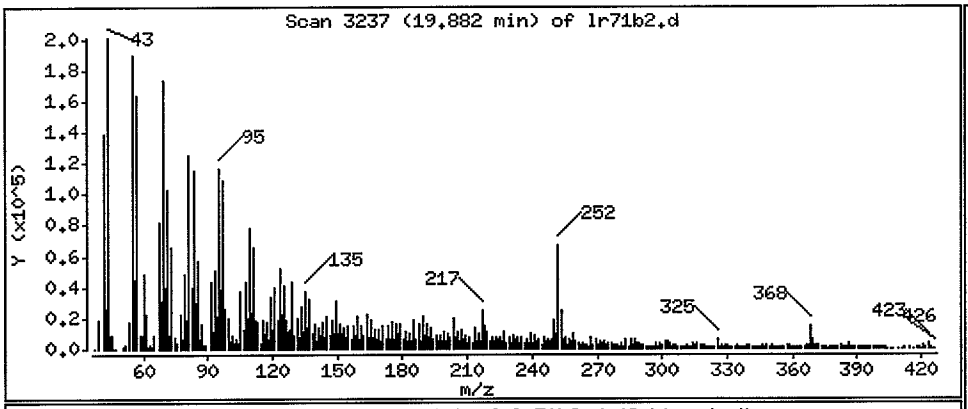
Operator: VTS

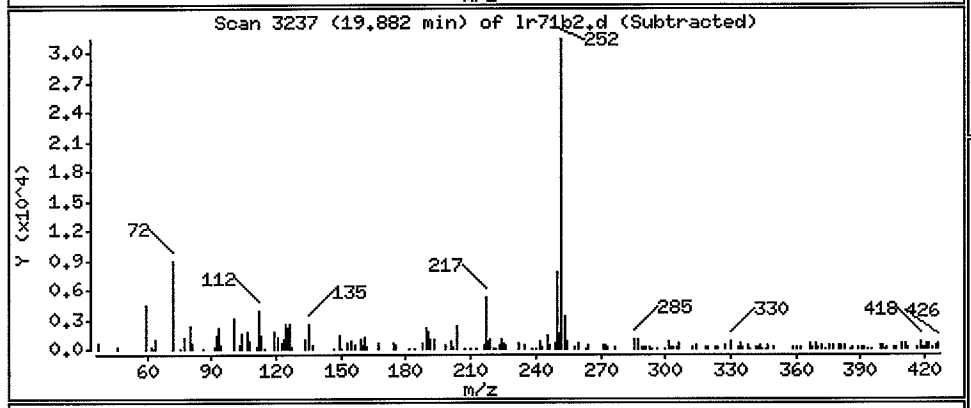
Column phase: ZB-5

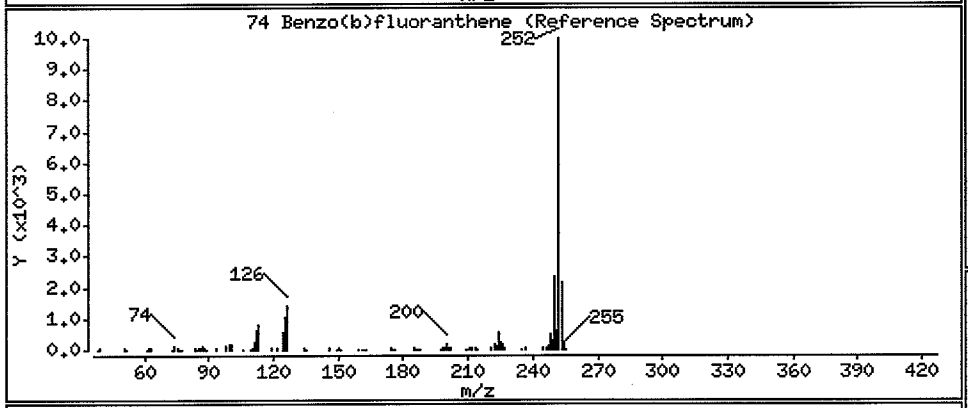
Column diameter: 0.32

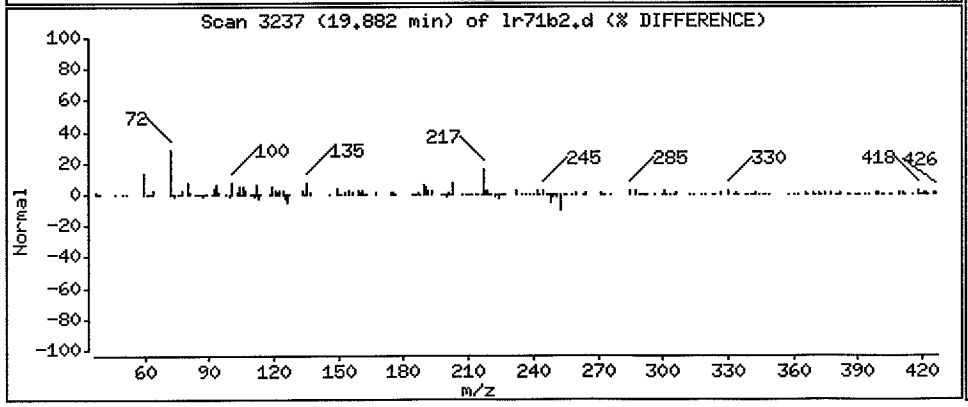
74 Benzo(b)fluoranthene

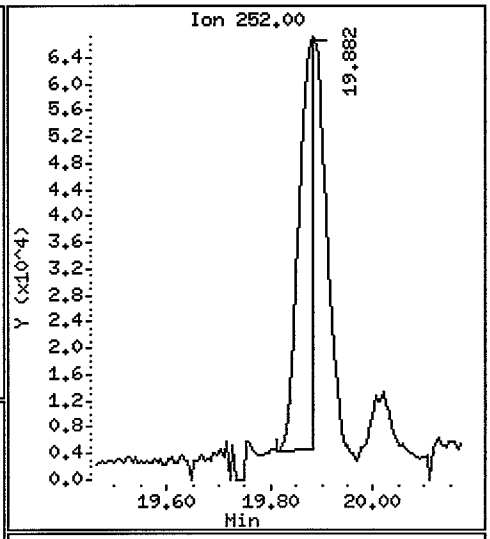
Concentration: 70.14 ug/Kg

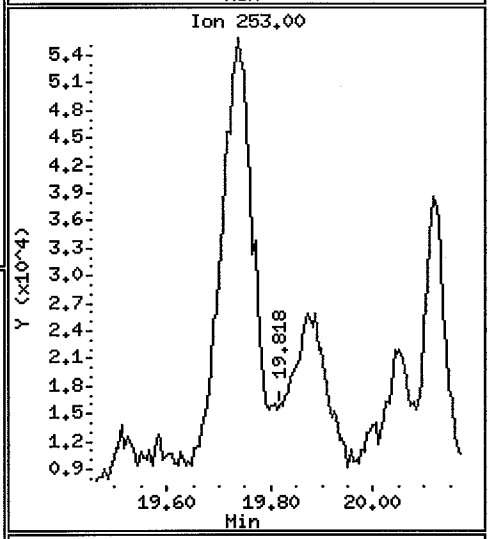


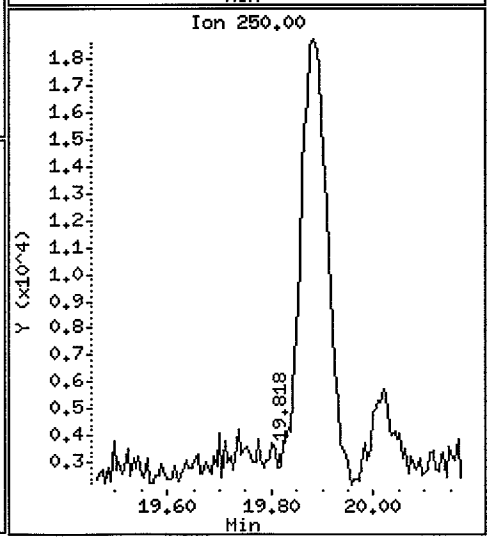












Data File: /chem3/nt4.i/20071101.b/lr71b2.d

Date : 01-NOV-2007 17:11

Client ID:

Instrument: nt4.i

Sample Info: LR71BRE

Volume Injected (uL): 1.0

Operator: VTS

Column phase: ZB-5

Column diameter: 0.32

75 Benzo(k)fluoranthene

Concentration: 70.39 ug/Kg

