Data File: /chem3/nt4.i/20071101.b/lr71i2.d

Date : 01-NOV-2007 21:21

Client ID:

Instrument: nt4.i

Sample Info: LR71IRE

Volume Injected (uL): 1.0

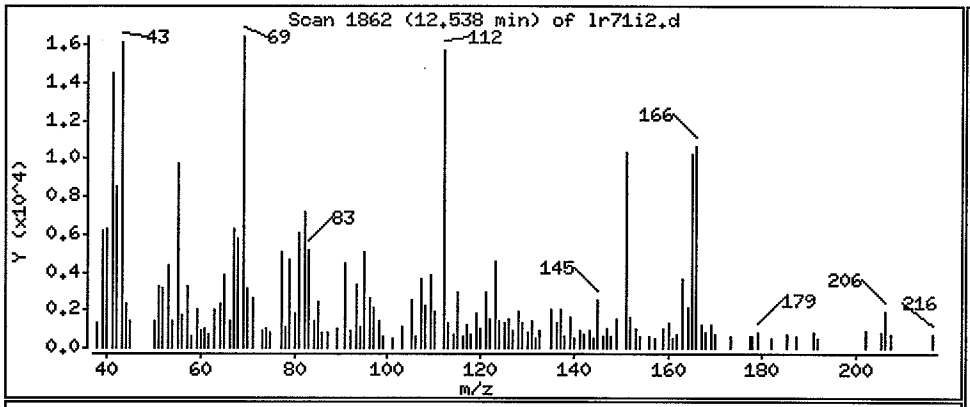
Operator: VTS

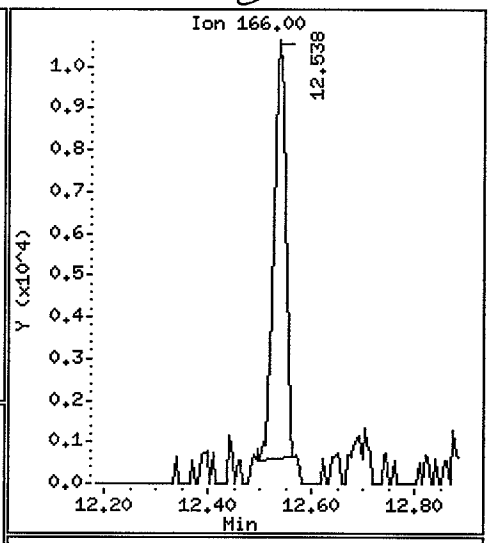
Column phase: ZB-5

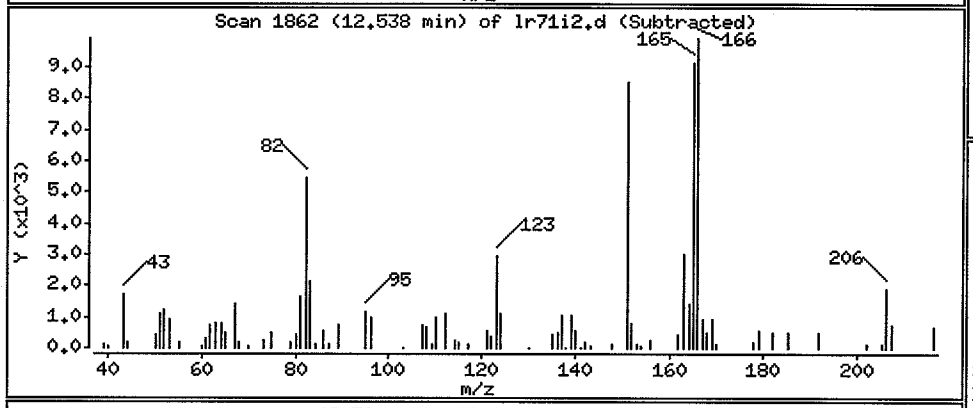
Column diameter: 0.32

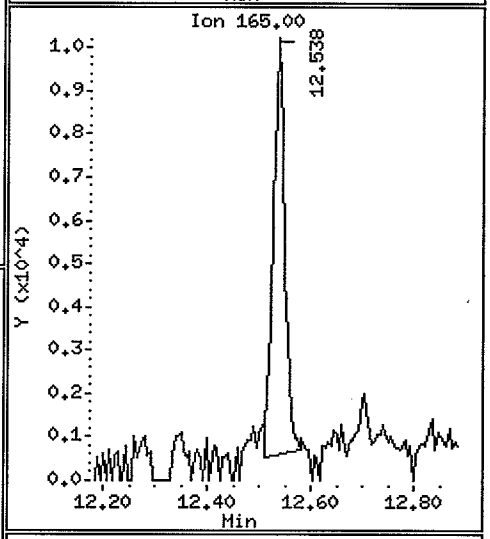
49 Fluorene

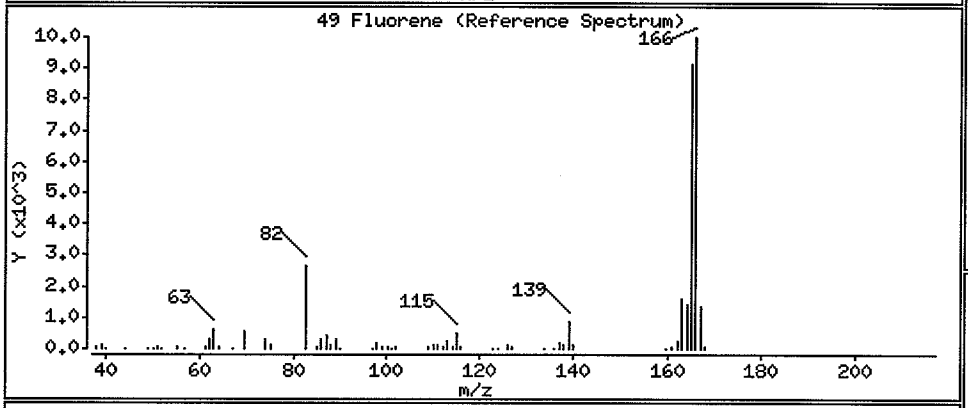
Concentration: 13.42 ug/Kg

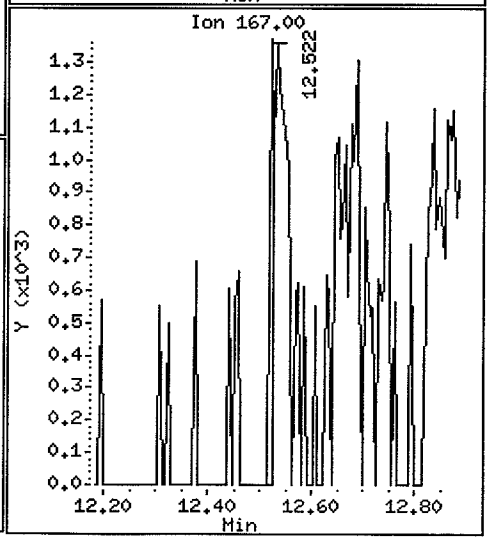


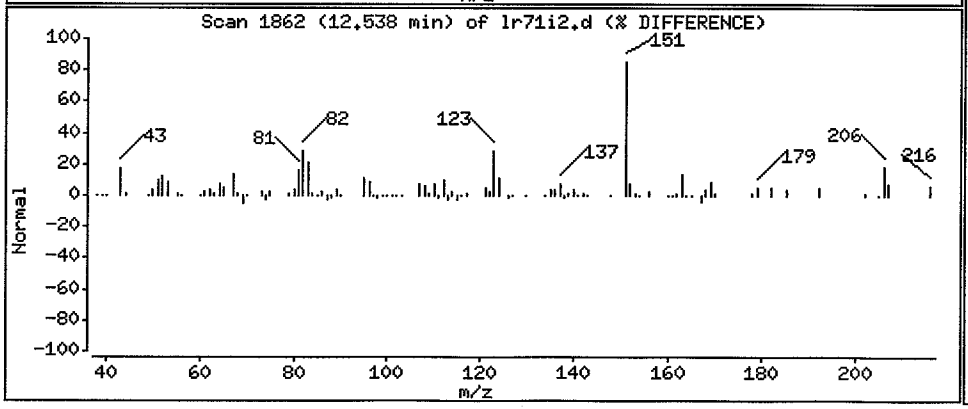












Data File: /chem3/nt4.i/20071101.b/lr71i2.d

Date : 01-NOV-2007 21:21

Client ID:

Instrument: nt4.i

Sample Info: LR71IRE

Volume Injected (uL): 1.0

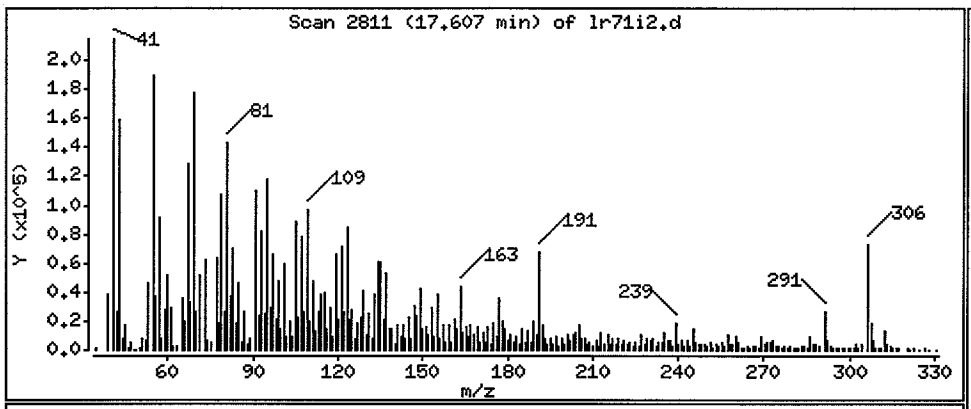
Operator: VTS

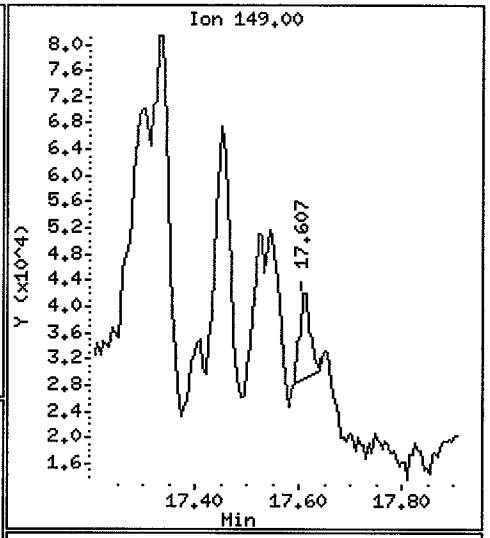
Column phase: ZB-5

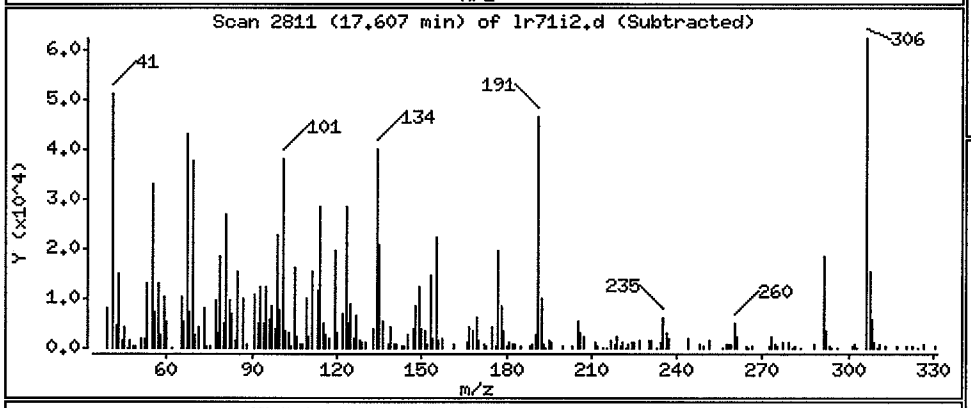
Column diameter: 0.32

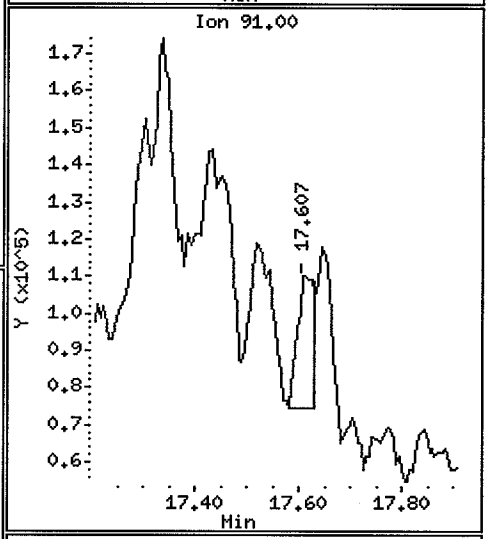
67 Butylbenzylphthalate

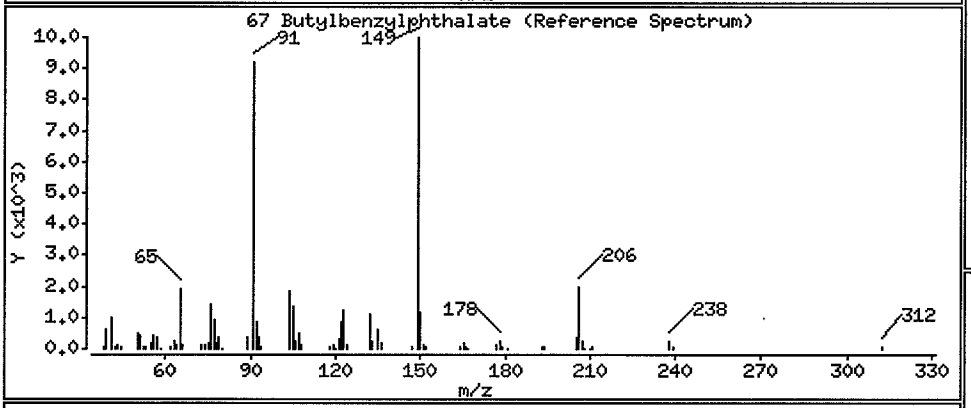
Concentration: 17.93 ug/Kg

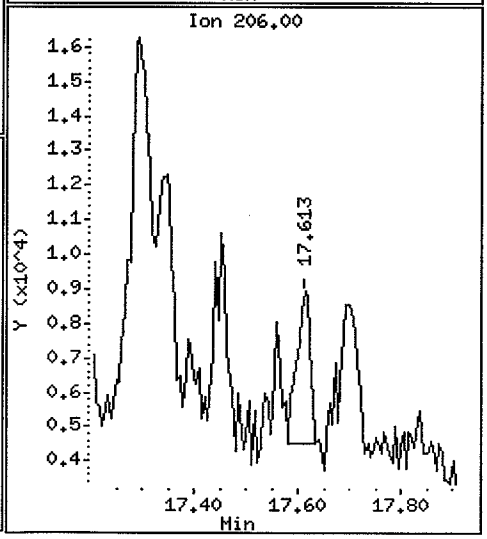


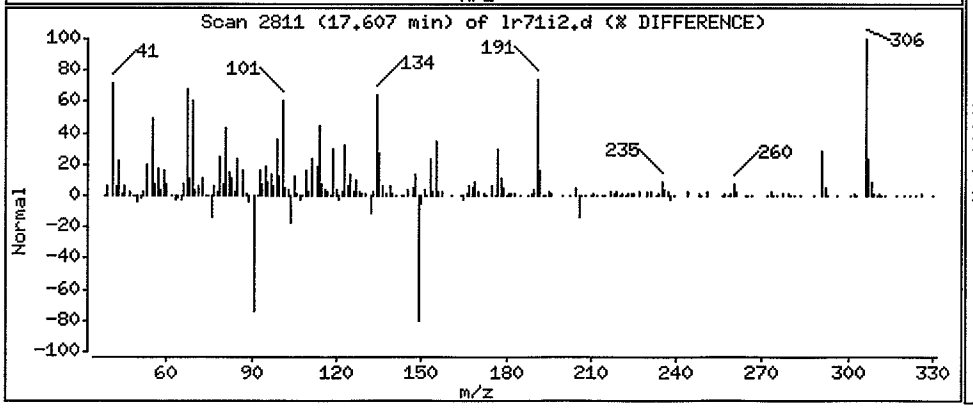












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: AN-SS-06**
Page 1 of 2 **SAMPLE**

Lab Sample ID: LR71J
LIMS ID: 07-20775
Matrix: Sediment
Data Release Authorized:
Reported: 01/25/08

QC Report No: LR71-Anchor Environmental, LLC
Project: Kimberly Clark Anacortes
NA
Date Sampled: 09/28/07
Date Received: 09/29/07

Date Extracted: 10/10/07
Date Analyzed: 10/18/07 20:18
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 22.1%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	20	< 20 U
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**	**38**
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	9.8	< 9.8 UJ
91-20-3	Naphthalene	20	< 20 U
87-68-3	Hexachlorobutadiene	20	< 20 U
91-57-6	2-Methylnaphthalene	20	< 20 U
131-11-3	Dimethylphthalate	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	Acenaphthene	20	< 20 U
132-64-9	Dibenzofuran	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
86-73-7	Fluorene	20	< 20 U
86-30-6	N-Nitrosodiphenylamine	20	< 20 U
118-74-1	Hexachlorobenzene	9.8	< 9.8 UJ
87-86-5	Pentachlorophenol	99	< 99 U
85-01-8	**Phenanthrene**	**20**	**24**
120-12-7	Anthracene	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
206-44-0	**Fluoranthene**	**20**	**46**
129-00-0	**Pyrene**	**20**	**30**
85-68-7	Butylbenzylphthalate	20	< 20 U
56-55-3	Benzo(a)anthracene	20	< 20 U
117-81-7	bis(2-Ethylhexyl)phthalate	20	< 20 U
218-01-9	Chrysene	20	< 20 U
117-84-0	Di-n-Octyl phthalate	20	< 20 U
205-99-2	Benzo(b)fluoranthene	20	< 20 U
207-08-9	Benzo(k)fluoranthene	20	< 20 U
50-32-8	Benzo(a)pyrene	20	< 20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	Benzo(g,h,i)perylene	20	< 20 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: AN-SS-06**
Page 2 of 2 **SAMPLE**

Lab Sample ID: LR71J QC Report No: LR71-Anchor Environmental, LLC
LIMS ID: 07-20775 Project: Kimberly Clark Anacortes
Matrix: Sediment NA
Date Analyzed: 10/18/07 20:18

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

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	54.0%	2-Fluorobiphenyl	57.6%
d14-p-Terphenyl	60.4%	d4-1,2-Dichlorobenzene	48.0%
d5-Phenol	51.7%	2-Fluorophenol	64.3%
2,4,6-Tribromophenol	60.0%	d4-2-Chlorophenol	54.1%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20071018.b/lr71j.d
Lab Smp Id: LR71J Client Smp ID: AN-SS-06
Inj Date : 18-OCT-2007 20:18
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : LR71J
Misc Info : 07-20775
Comment : 1ul Injection
Method : /chem1/nt6.i/20071018.b/SW846.m
Meth Date : 25-Oct-2007 15:32 jeff Quant Type: ISTD
Cal Date : 01-OCT-2007 13:12 Cal File: 0051001.d
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

LJR 10/25/07

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	65.00000	Weight of sample extracted (g)
M	22.10000	% 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	5.972	5.917	(0.755)	359885	24.0516	475.0
$	2 Phenol-d5	99	7.511	7.488	(0.949)	371480	19.4346	383.8
	3 Phenol	94	7.532	7.504	(0.952)	12057	0.50898 LPL	10.05
$	5 2-Chlorophenol-d4	132	7.612	7.600	(0.962)	257834	20.2529	400.0
	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	7.911	7.904	(1.000)	203049	20.0000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	8.211	8.204	(1.038)	114750	12.0200	237.4
	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	8.686	8.674	(1.098)	27572	1.93364	38.19
$	18 Nitrobenzene-d5	82	8.846	8.845	(0.887)	262583	13.4606	265.8
	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	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	9.973	9.961	(1.000)	607154	20.0000	
	28 Naphthalene	128	Compound Not Detected.					
	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	Compound Not Detected.					
	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	11.784	11.777	(0.917)	363052	14.4313	285.0
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	12.853	12.841	(1.000)	323111	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	Compound Not Detected.					
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
	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	14.151	14.139	(1.101)	70423	22.4645	443.7
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	15.235	15.223	(1.000)	496959	20.0000	
	60 Phenanthrene	178	15.273	15.261	(1.002)	38232	1.19905	23.68
	61 Anthracene	178	Compound Not Detected.					
	62 Carbazole	167	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
63 Di-n-butylphthalate	149	Compound Not Detected.					
64 Fluoranthene	202	17.217	17.205	(1.130)	85736	2.35131	46.44
65 Pyrene	202	17.570	17.563	(0.898)	73696	1.50619	29.75
$ 66 Terphenyl-d14	244	17.901	17.884	(0.915)	462250	15.0936	298.1
67 Butylbenzylphthalate	149	Compound Not Detected.					
68 Benzo(a)anthracene	228	19.541	19.529	(0.999)	33677	0.63092 LOL	12.46
* 69 Chrysene-d12	240	19.568	19.556	(1.000)	681258	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	19.605	19.598	(1.002)	35854	0.74746 LOL	14.76
72 bis(2-Ethylhexyl)phthalate	149	19.792	19.785	(0.955)	19485	0.66884	13.21(M)
* 134 Di-n-octylphthalate-d4	153	20.733	20.720	(1.000)	963453	20.0000	
73 Di-n-octylphthalate	149	Compound Not Detected.					
74 Benzo(b)fluoranthene	252	21.203	21.190	(0.975)	24252	0.63167 LOL	12.47
75 Benzo(k)fluoranthene	252	21.229	21.228	(0.977)	29119	0.71697	14.16(M)
76 Benzo(a)pyrene	252	21.651	21.639	(0.996)	21332	0.60526	11.95(M)
* 77 Perylene-d12	264	21.737	21.719	(1.000)	534656	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
80 Benzo(g,h,i)perylene	276	Compound Not Detected.					
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	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: lr71j.d
Lab Smp Id: LR71J
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20071018.b/SW846.m
Misc Info: 07-20775

Calibration Date: 18-OCT-2007
Calibration Time: 10:07
Client Smp ID: AN-SS-06
Level: LOW
Sample Type: Sediment

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	212076	106038	424152	203049	-4.26
27 Naphthalene-d8	656578	328289	1313156	607154	-7.53
42 Acenaphthene-d10	353705	176852	707410	323111	-8.65
59 Phenanthrene-d10	526440	263220	1052880	496959	-5.60
69 Chrysene-d12	581923	290962	1163846	681258	17.07
134 Di-n-octylphthala	979097	489548	1958194	963453	-1.60
77 Perylene-d12	686531	343266	1373062	534656	-22.12

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.90	7.40	8.40	7.91	0.09
27 Naphthalene-d8	9.96	9.46	10.46	9.97	0.12
42 Acenaphthene-d10	12.84	12.34	13.34	12.85	0.10
59 Phenanthrene-d10	15.22	14.72	15.72	15.24	0.08
69 Chrysene-d12	19.56	19.06	20.06	19.57	0.06
134 Di-n-octylphthala	20.72	20.22	21.22	20.73	0.06
77 Perylene-d12	21.72	21.22	22.22	21.74	0.08

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

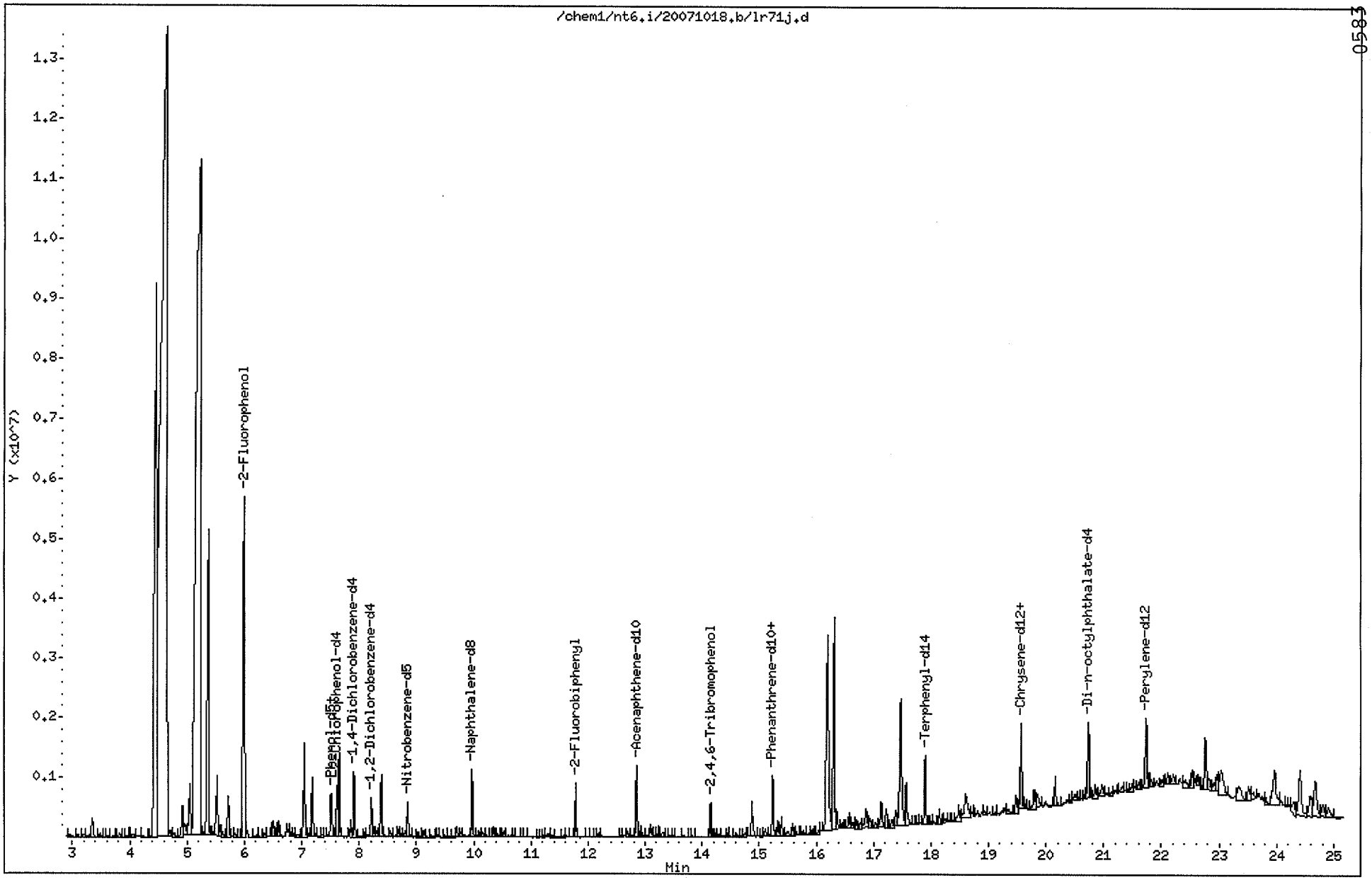
Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: LR71J
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20071018.b/SW846.m
Misc Info: 07-20775

Client SDG: LR71
Fraction: SV
Client Smp ID: AN-SS-06
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	740.6	475.0	64.14	11-84
$ 2 Phenol-d5	740.6	383.8	51.83	25-86
$ 5 2-Chlorophenol-d4	740.6	400.0	54.01	23-91
$ 10 1,2-Dichlorobenzen	493.7	237.4	48.08	24-90
$ 18 Nitrobenzene-d5	493.7	265.8	53.84	26-88
$ 36 2-Fluorobiphenyl	493.7	285.0	57.73	34-91
$ 55 2,4,6-Tribromophen	740.6	443.7	59.91	25-107
$ 66 Terphenyl-d14	493.7	298.1	60.37	22-100

Data File: /chem1/nt6.i/20071018.b/lr71j.d
Date : 18-OCT-2007 20:18
Client ID: AN-SS-06
Sample Info: LR71J
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i
Operator: LJR/VTS
Column diameter: 0.32



Data File: /chem1/nt6.i/20071018.b/lr71j.d

Date : 18-OCT-2007 20:18

Client ID: AN-SS-06

Instrument: nt6.i

Sample Info: LR71J

Volume Injected (uL): 1.0

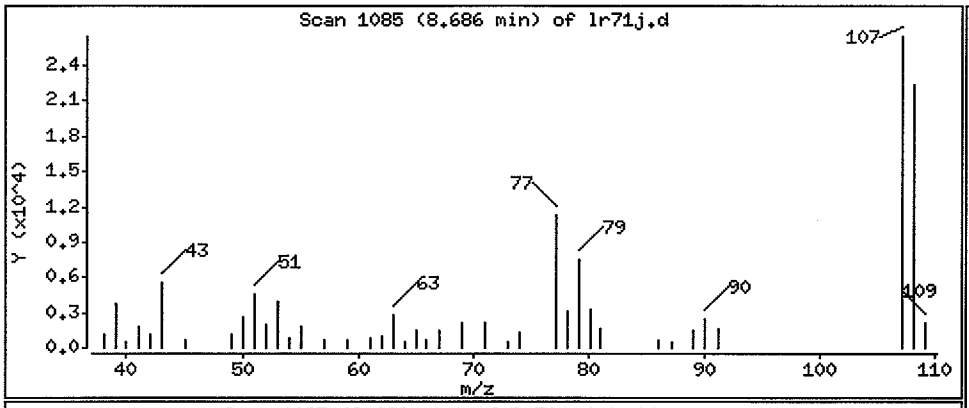
Operator: LJR/VTS

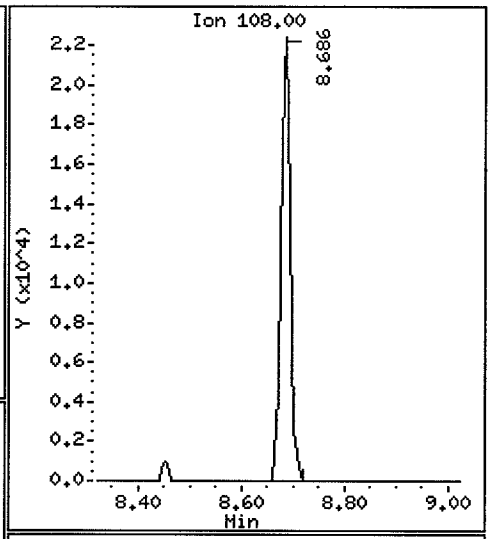
Column phase: ZB-5

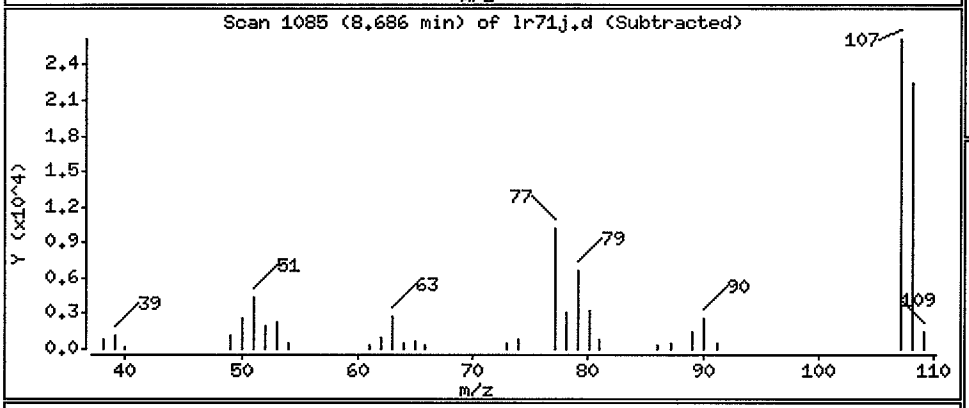
Column diameter: 0.32

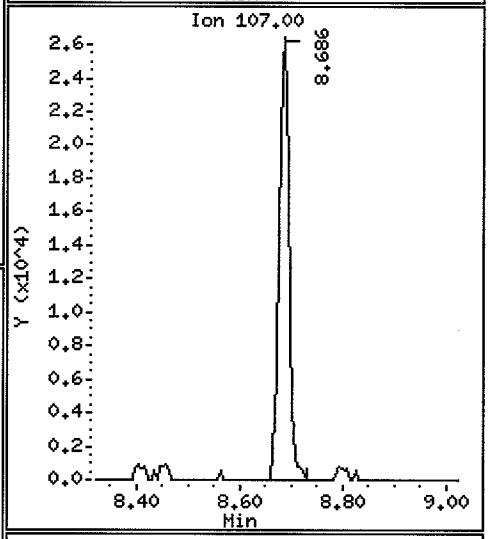
15 4-Methylphenol

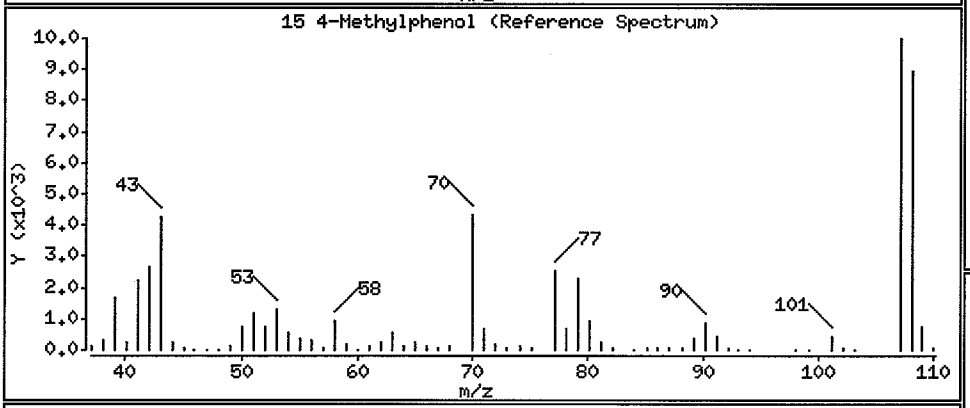
Concentration: 38.19 ug/kg

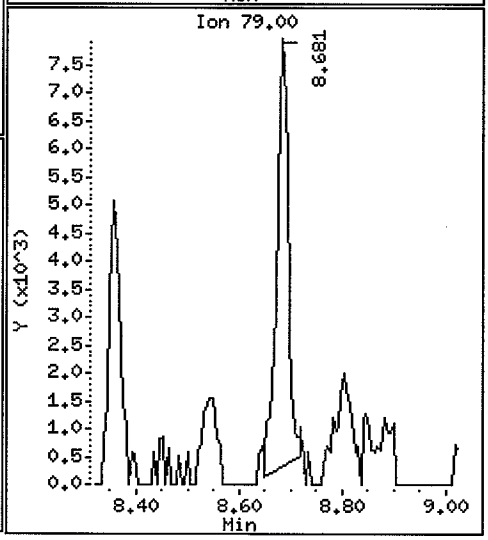


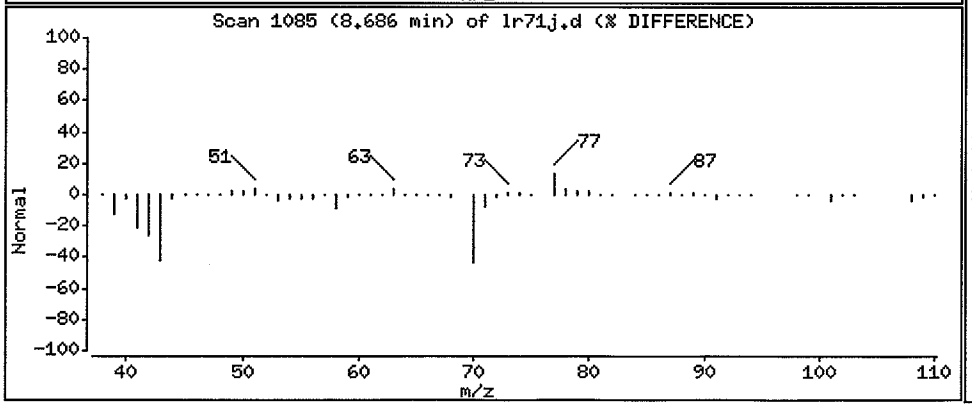












Data File: /chem1/nt6.i/20071018.b/lr71j.d

Date : 18-OCT-2007 20:18

Client ID: AN-SS-06

Instrument: nt6.i

Sample Info: LR71J

Volume Injected (uL): 1.0

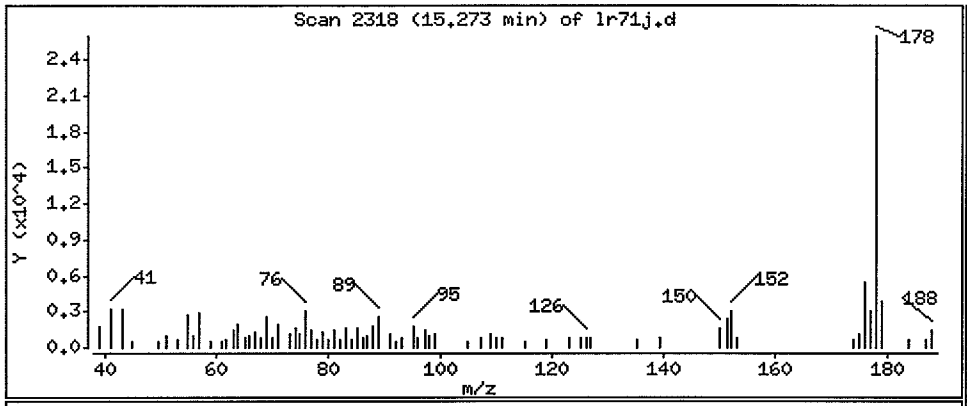
Operator: LJR/VTS

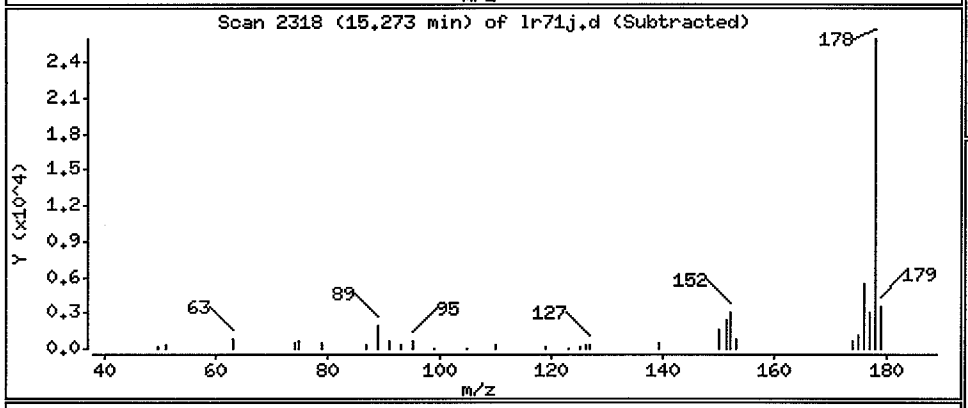
Column phase: ZB-5

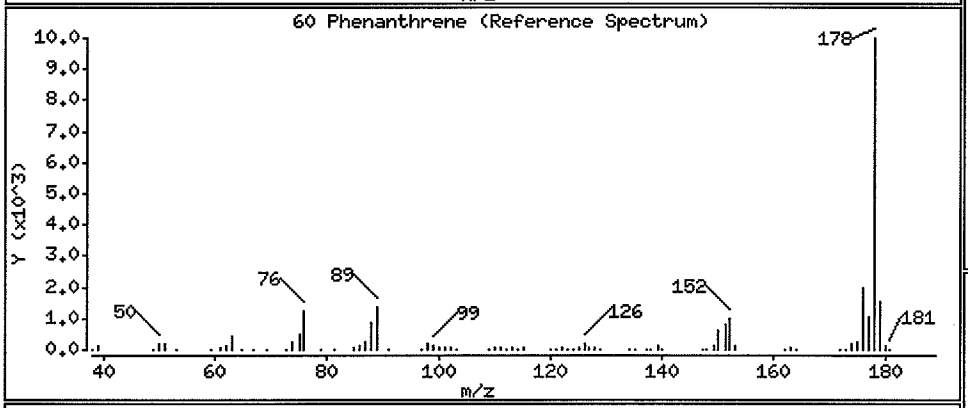
Column diameter: 0.32

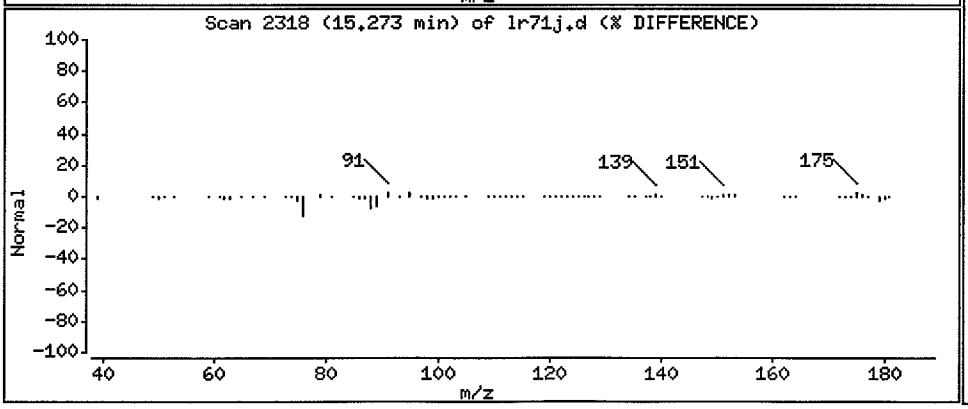
60 Phenanthrene

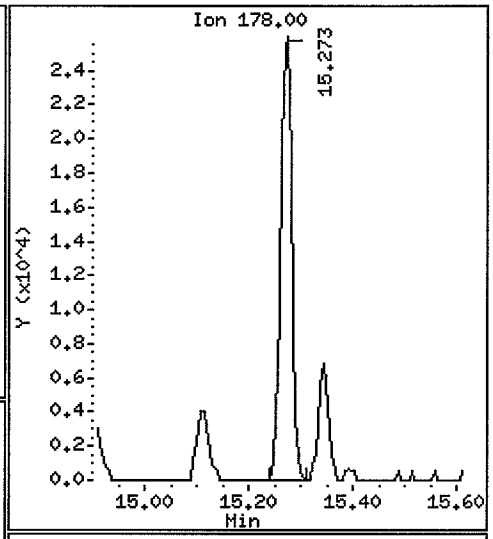
Concentration: 23.68 ug/kg

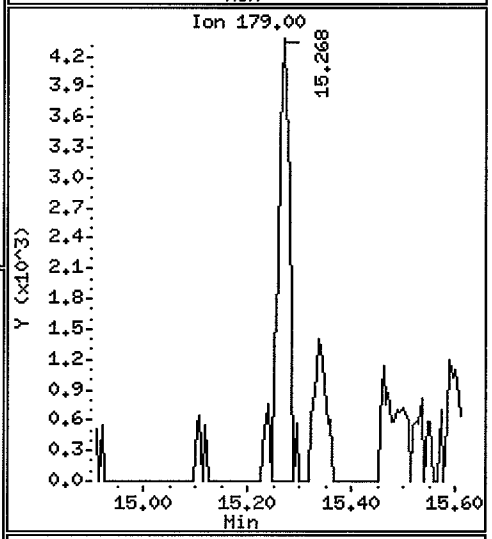


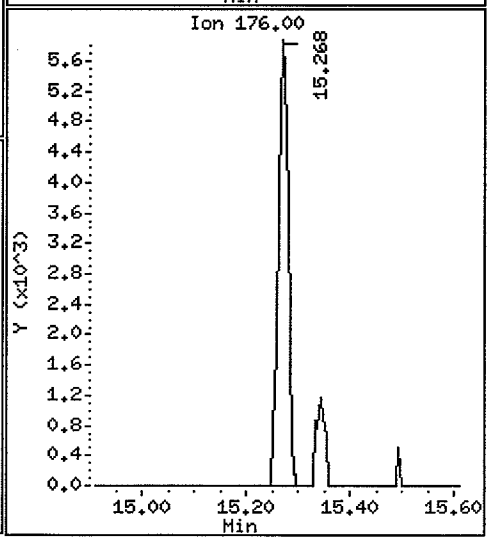












Data File: /chem1/nt6.i/20071018.b/lr71j.d

Date : 18-OCT-2007 20:18

Client ID: AN-SS-06

Instrument: nt6.i

Sample Info: LR71J

Volume Injected (uL): 1.0

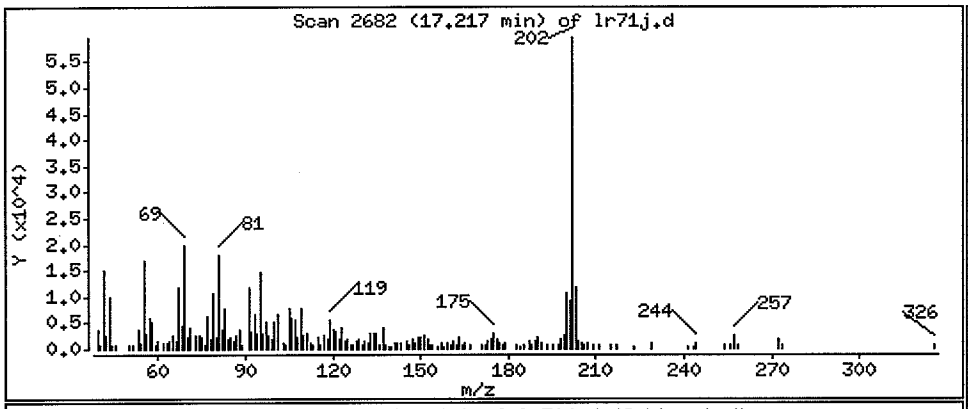
Operator: LJR/VTS

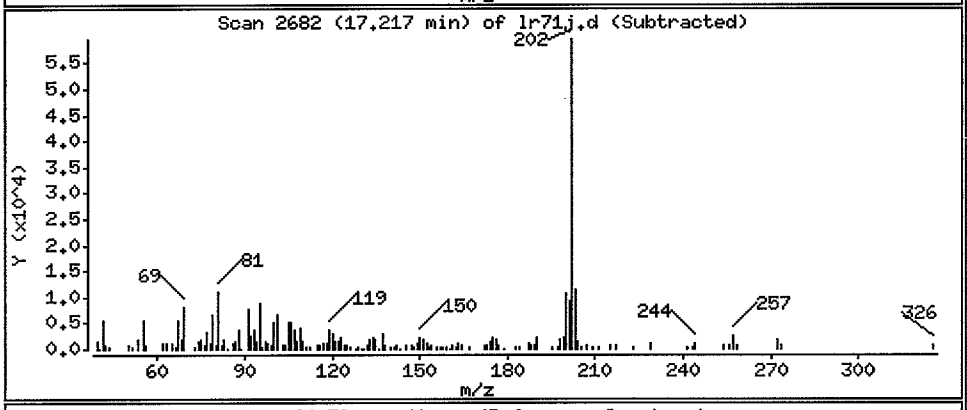
Column phase: ZB-5

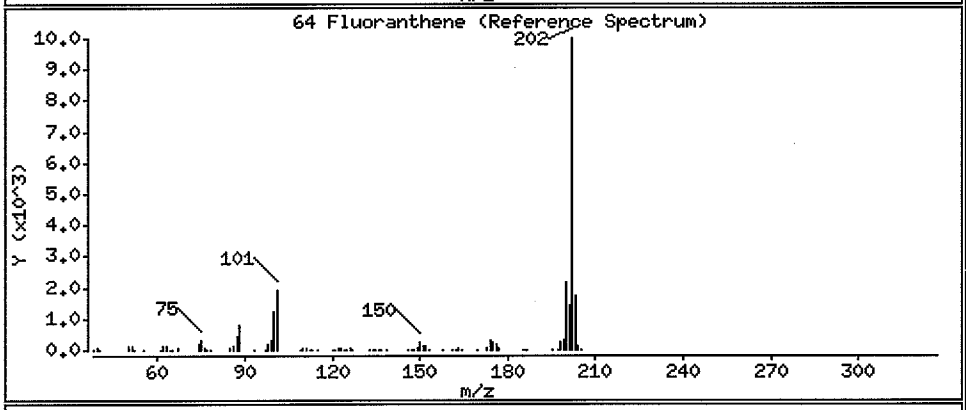
Column diameter: 0.32

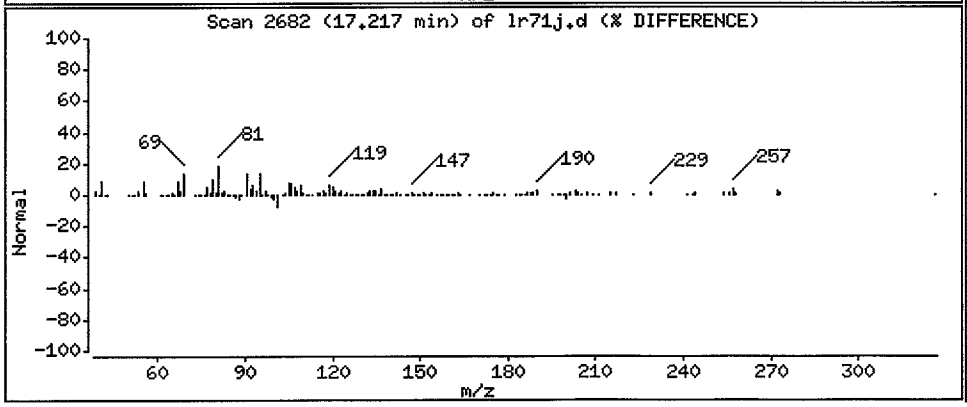
64 Fluoranthene

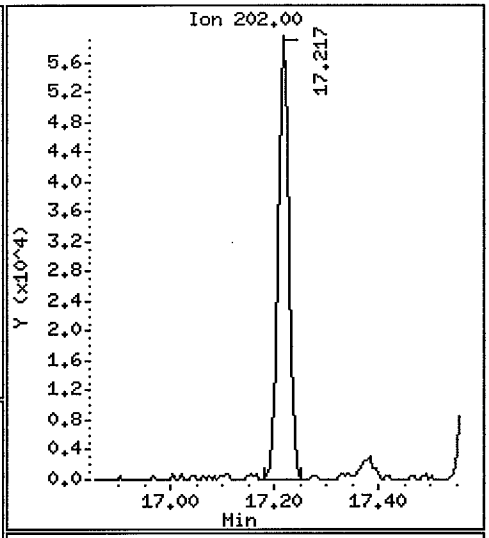
Concentration: 46.44 ug/kg

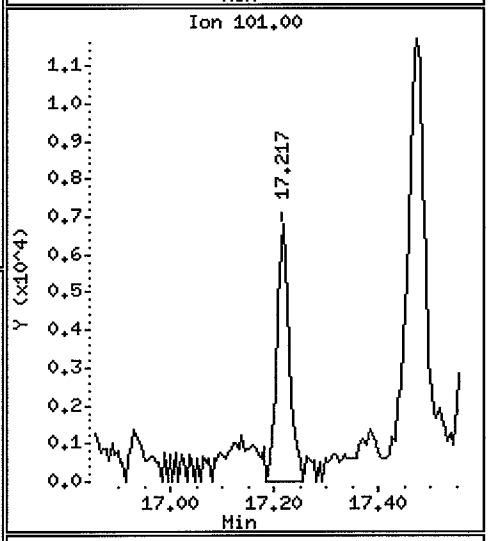


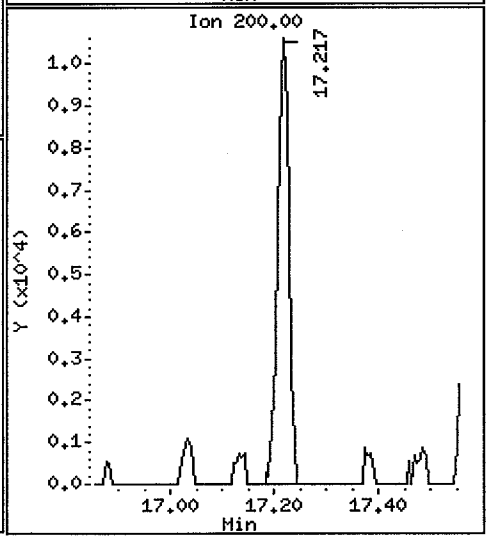












Data File: /chem1/nt6.i/20071018.b/lr71j.d

Date : 18-OCT-2007 20:18

Client ID: AN-SS-06

Instrument: nt6.i

Sample Info: LR71J

Volume Injected (uL): 1.0

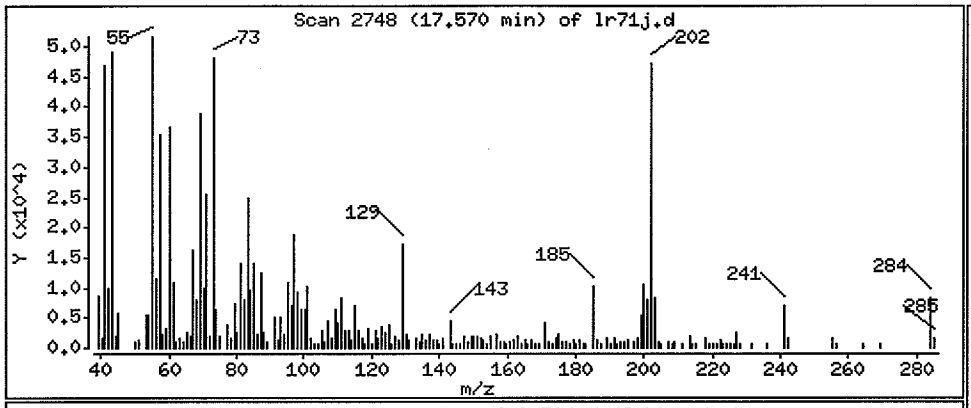
Operator: LJR/VTS

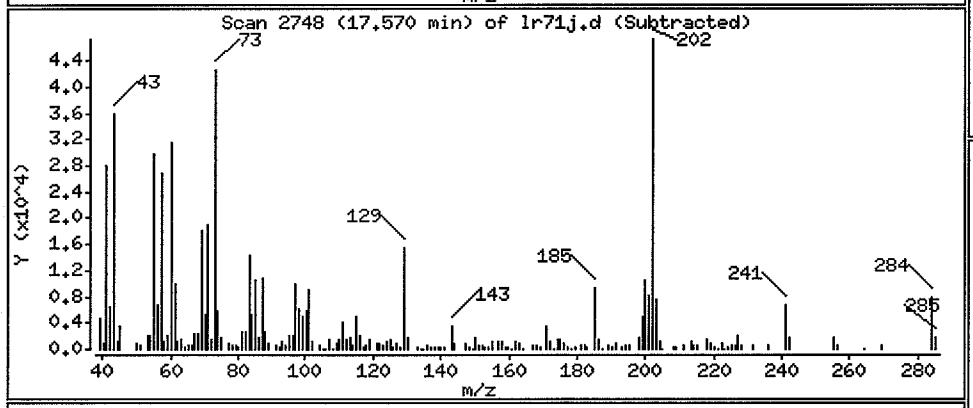
Column phase: ZB-5

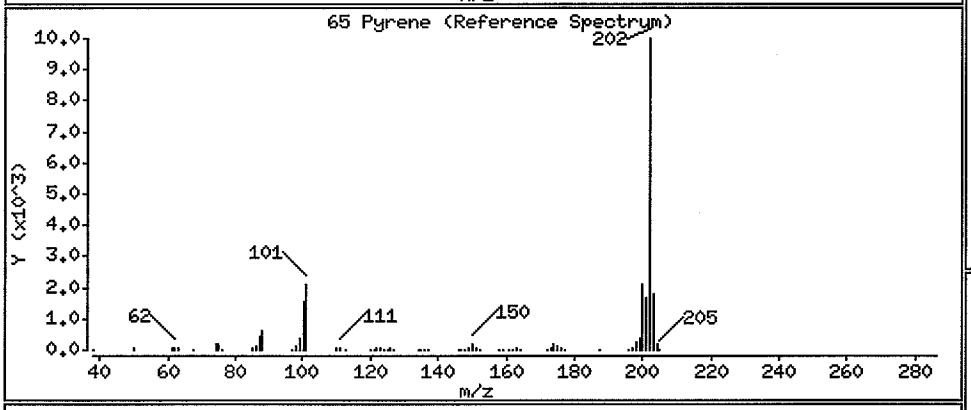
Column diameter: 0.32

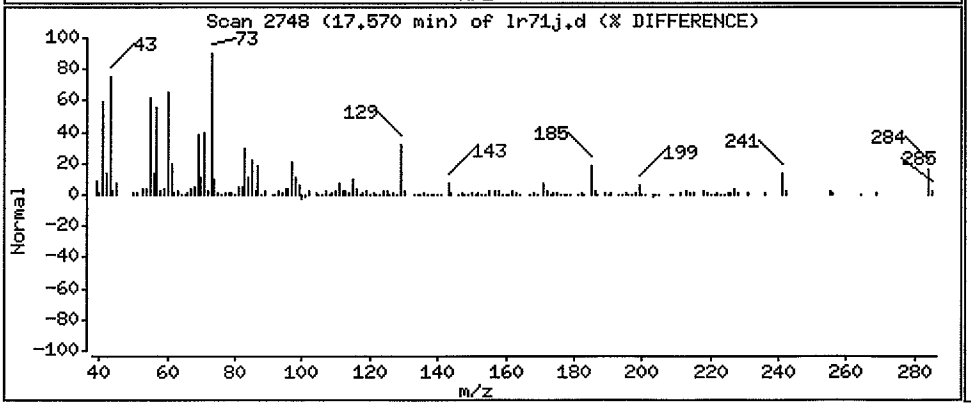
65 Pyrene

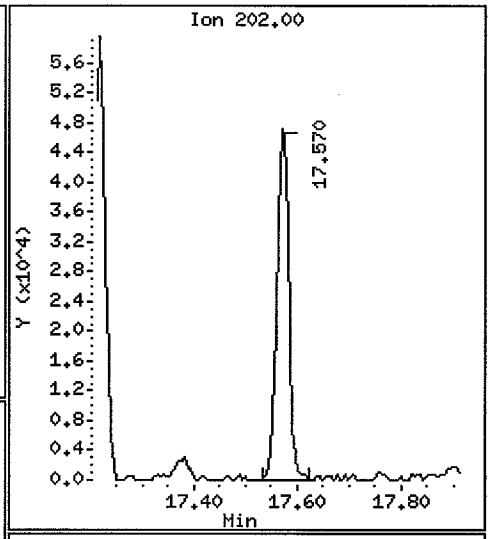
Concentration: 29.75 ug/kg

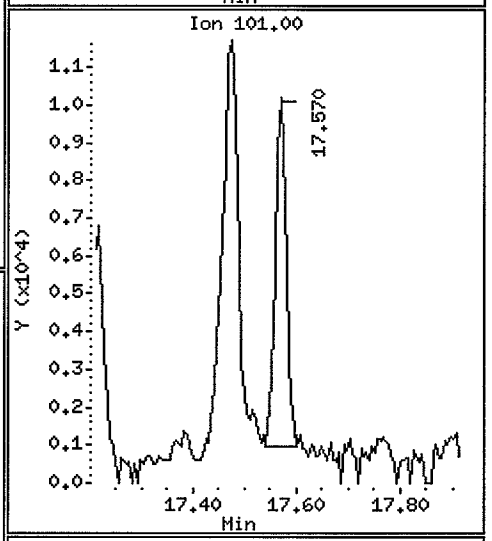


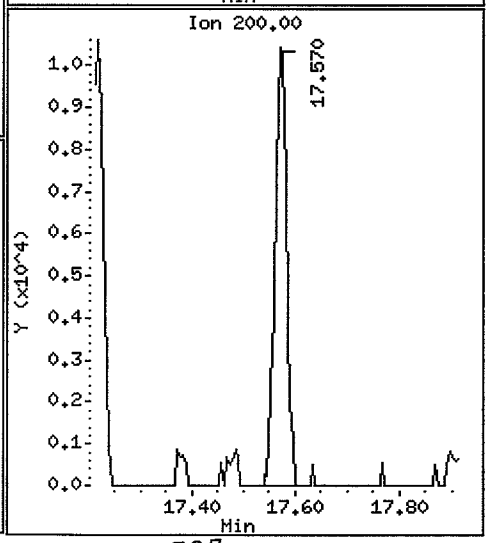












Data File: /chem1/nt6.i/20071018.b/lr71j.d

Date : 18-OCT-2007 20:18

Client ID: AN-SS-06

Instrument: nt6.i

Sample Info: LR71J

Volume Injected (uL): 1.0

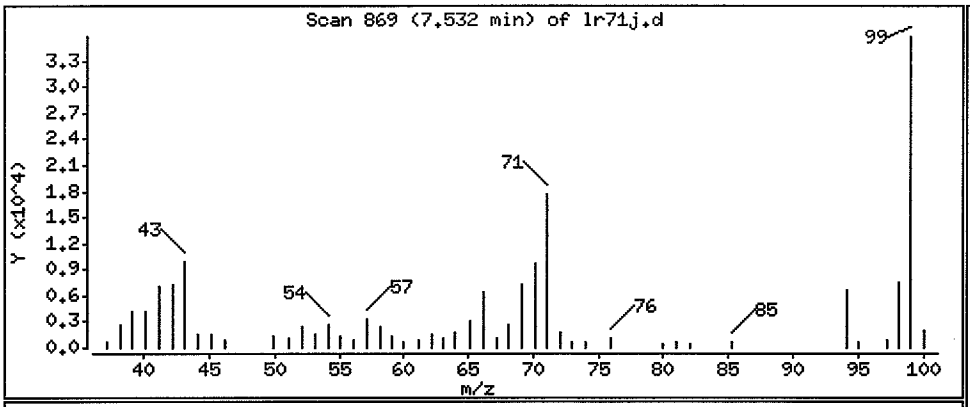
Operator: LJR/VTS

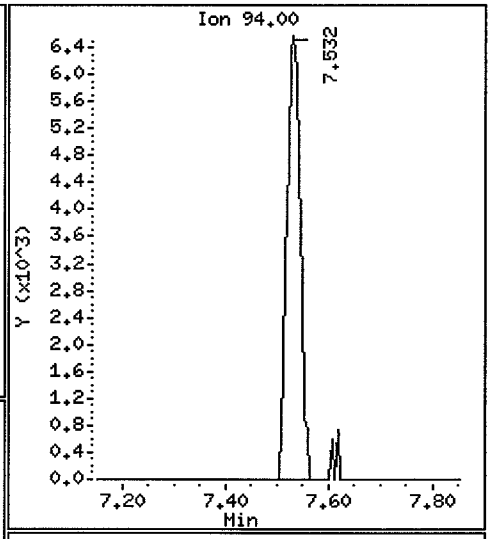
Column phase: ZB-5

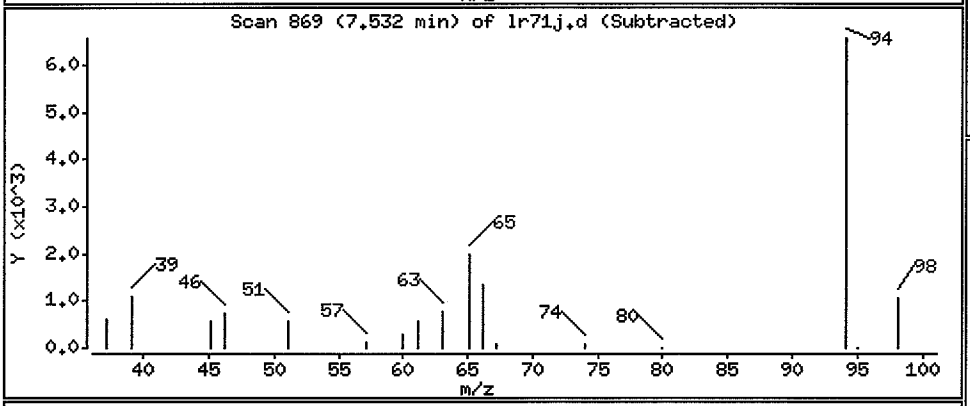
Column diameter: 0.32

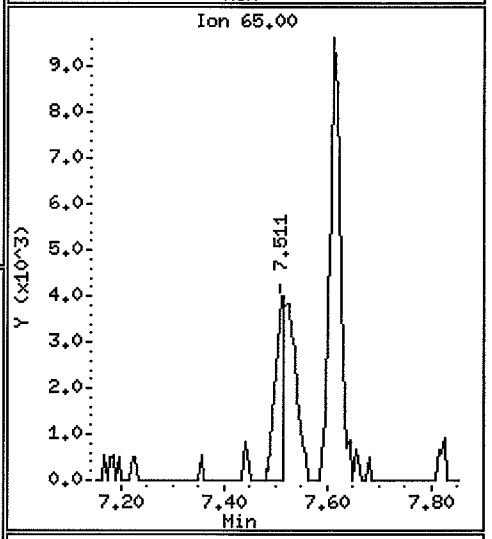
3 Phenol

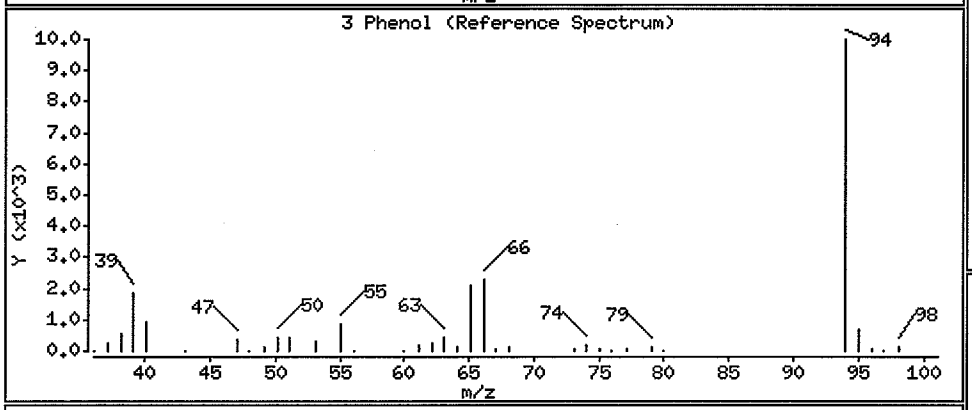
Concentration: 10.05 ug/kg

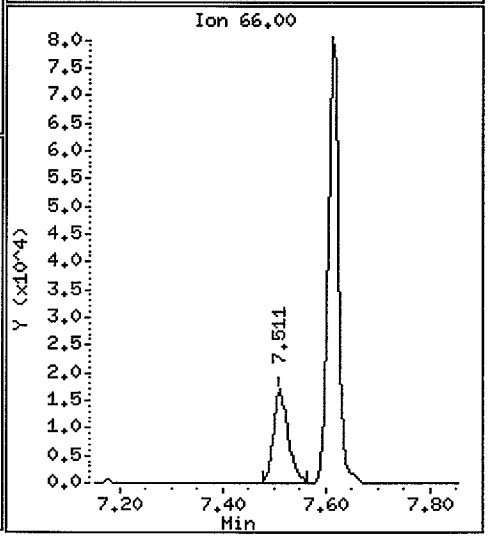


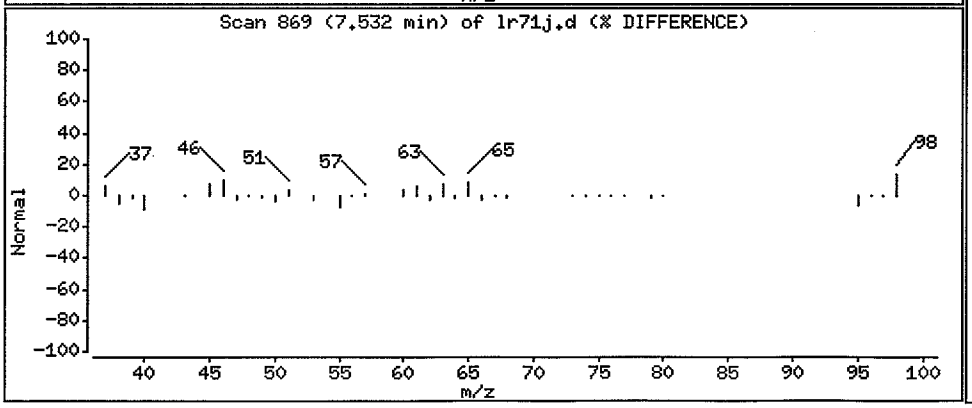












Data File: /chem1/nt6.i/20071018.b/lr71j.d

Date : 18-OCT-2007 20:18

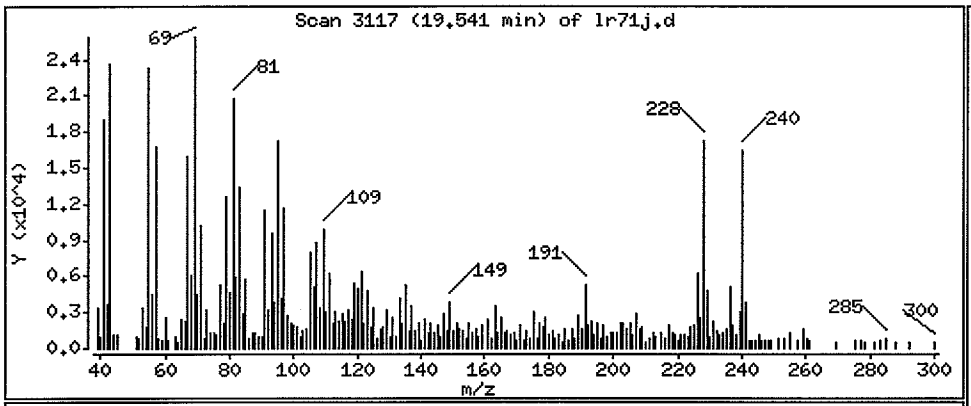
Client ID: AN-SS-06 Instrument: nt6.i

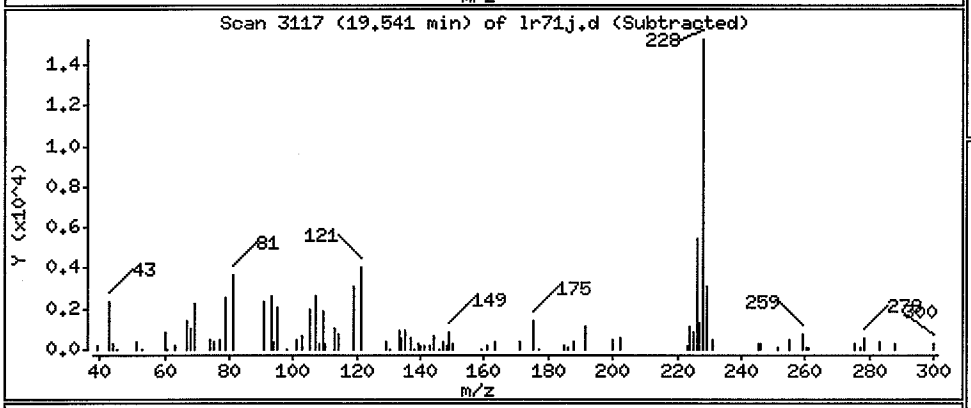
Sample Info: LR71J

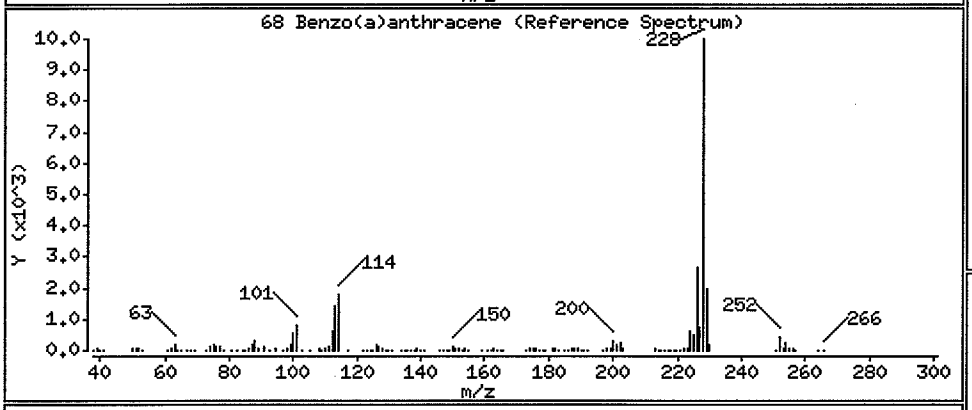
Volume Injected (uL): 1.0 Operator: LJR/VTS

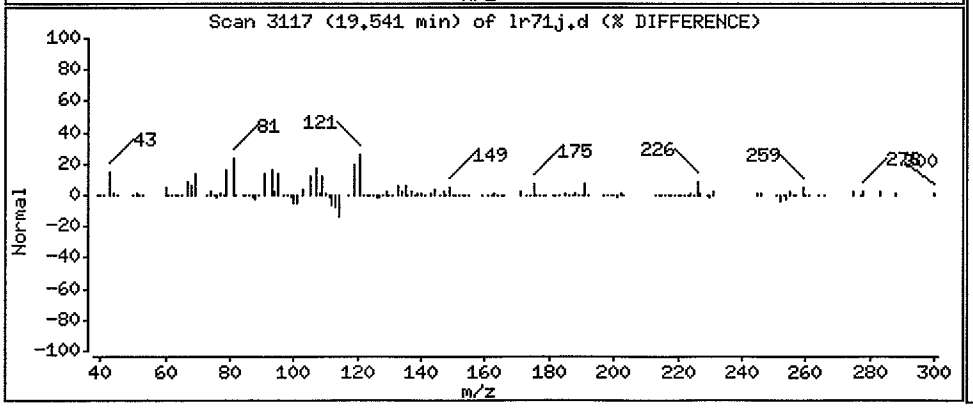
Column phase: ZB-5 Column diameter: 0.32

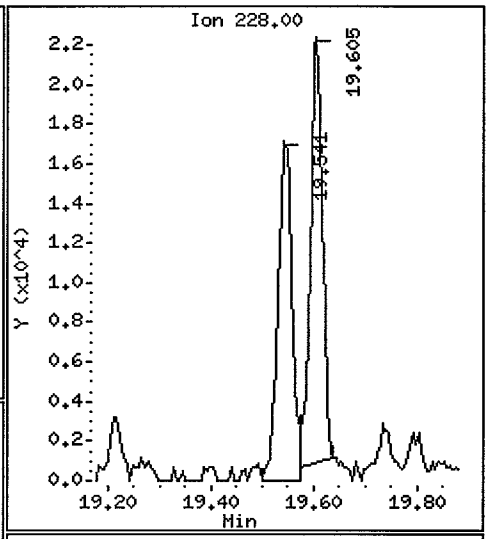
68 Benzo(a)anthracene Concentration: 12.46 ug/kg

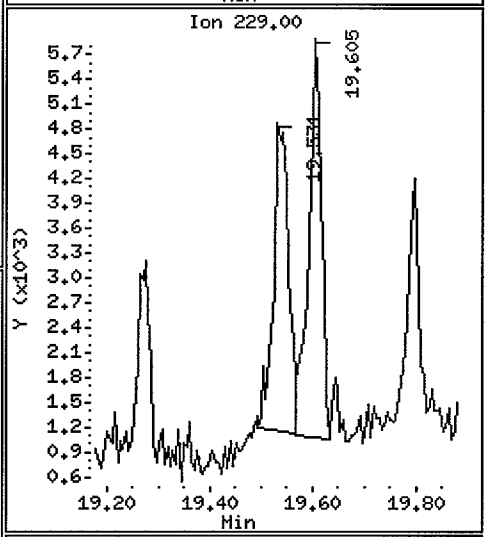


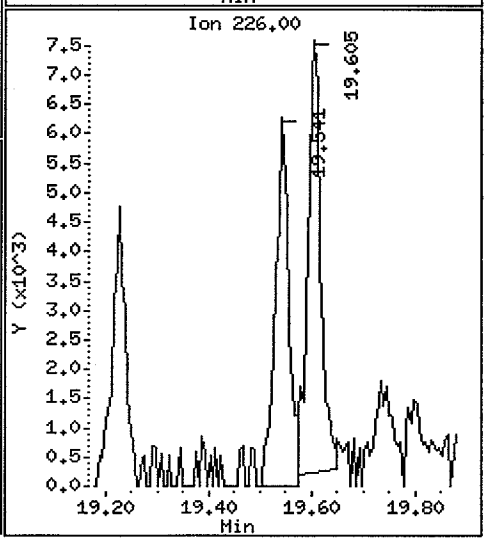












Data File: /chem1/nt6.i/20071018.b/lr71j.d

Date : 18-OCT-2007 20:18

Client ID: AN-SS-06

Instrument: nt6.i

Sample Info: LR71J

Volume Injected (uL): 1.0

Operator: LJR/VTS

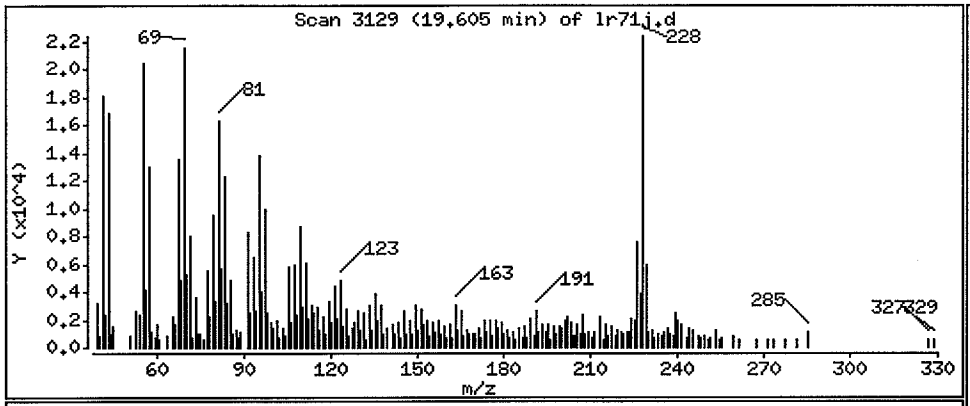
Column phase: ZB-5

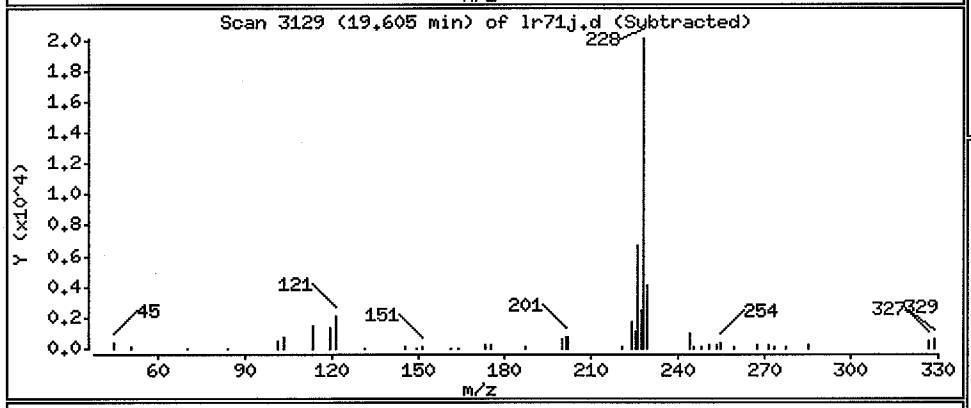
Column diameter: 0.32

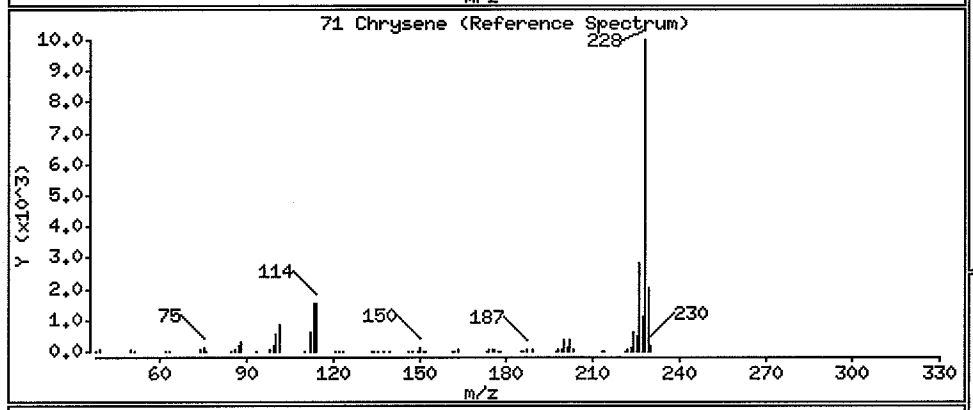
71 Chrysene

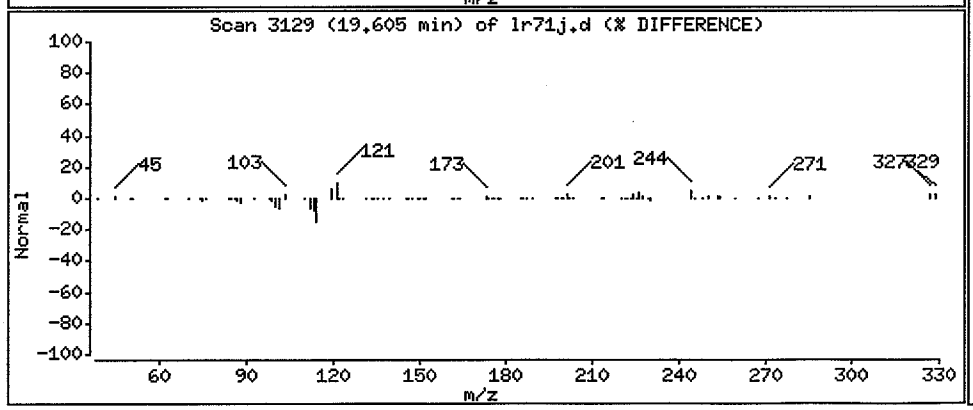
Concentration: 14.76 ug/kg

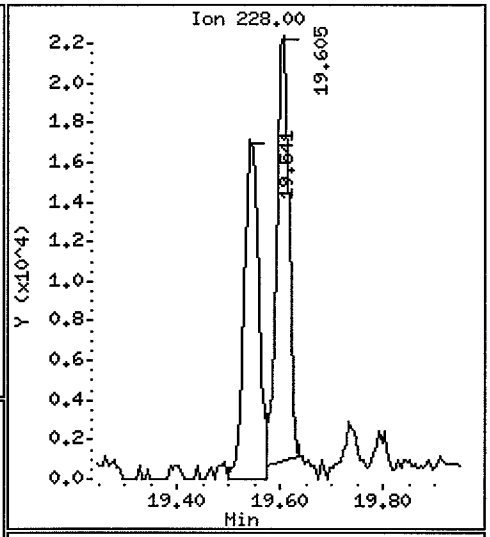
LRL

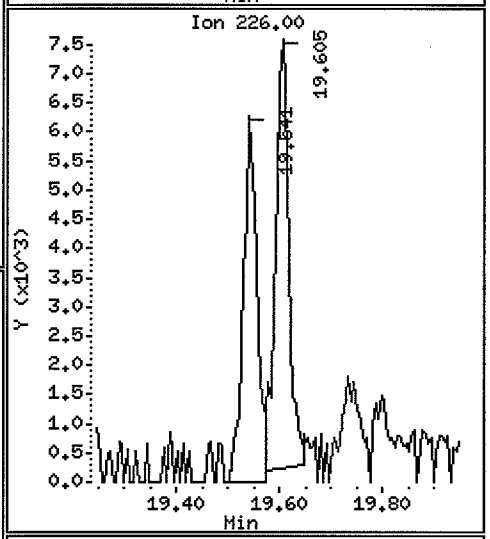


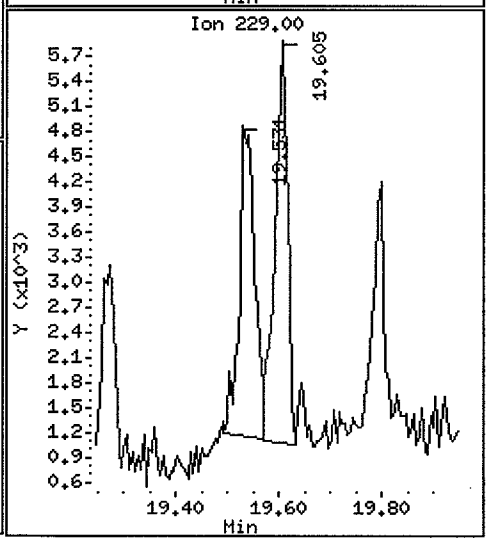












Data File: /chem1/nt6.i/20071018.b/lr71j.d

Date : 18-OCT-2007 20:18

Client ID: AN-SS-06

Instrument: nt6.i

Sample Info: LR71J

Volume Injected (uL): 1.0

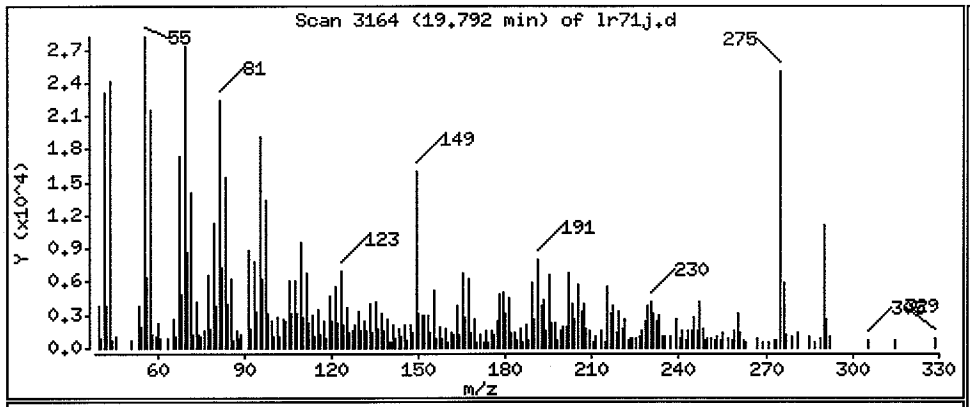
Operator: LJR/VTS

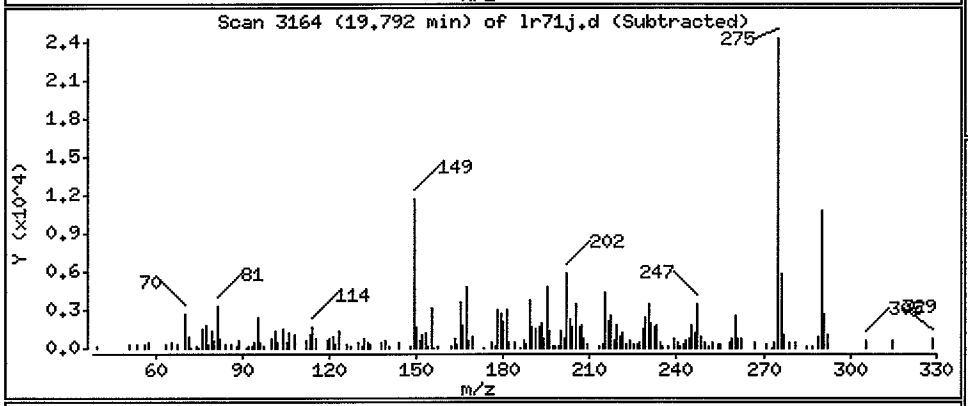
Column phase: ZB-5

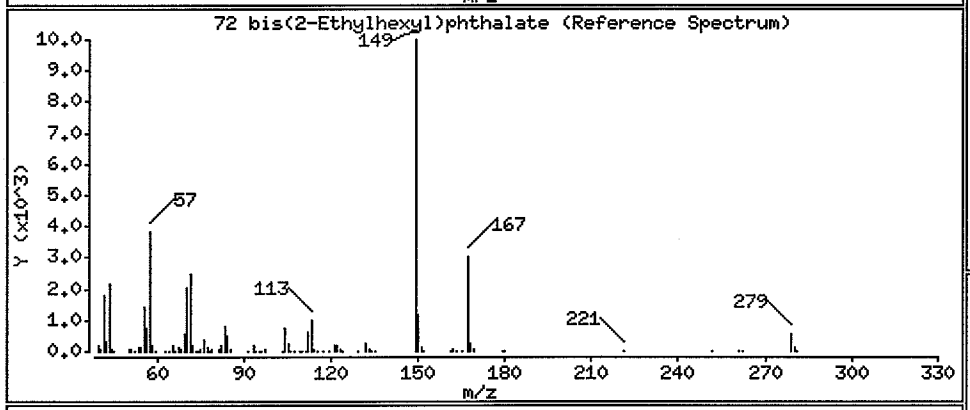
Column diameter: 0.32

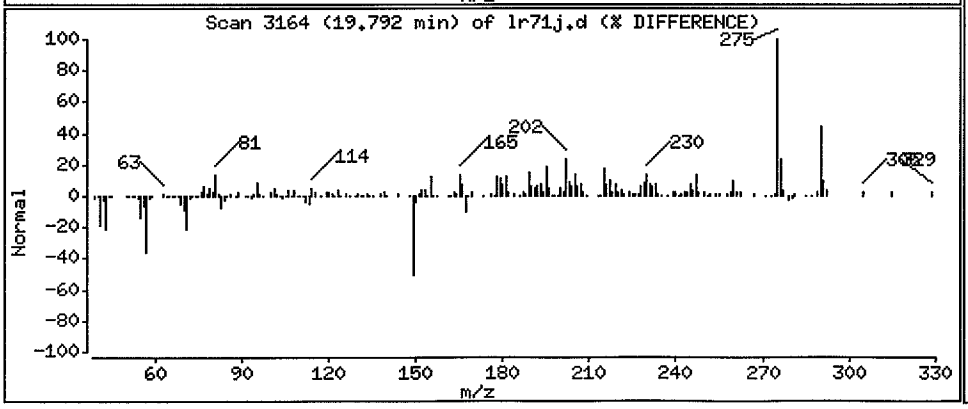
72 bis(2-Ethylhexyl)phthalate

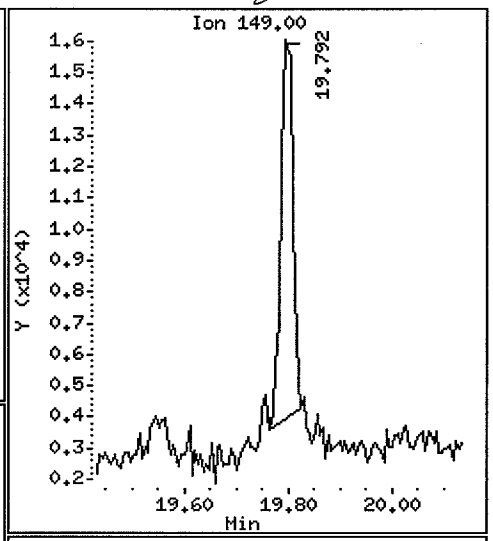
Concentration: 13.21 ug/kg

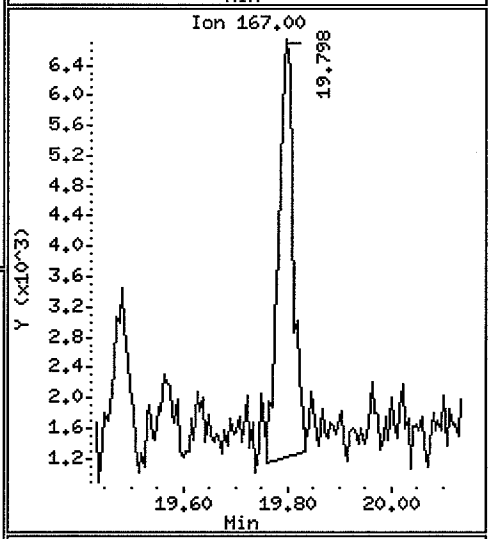


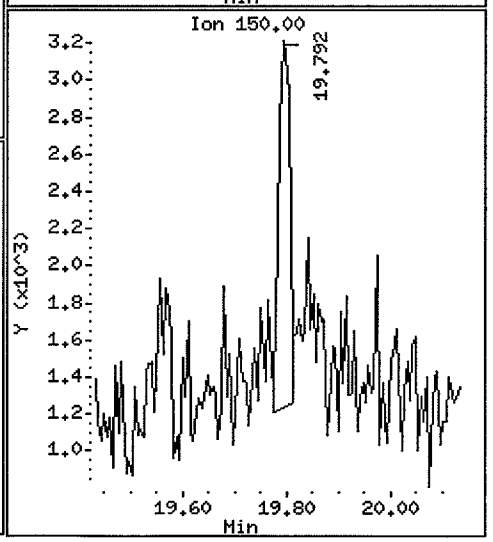












Data File: /chem1/nt6.i/20071018.b/lr71j.d

Date : 18-OCT-2007 20:18

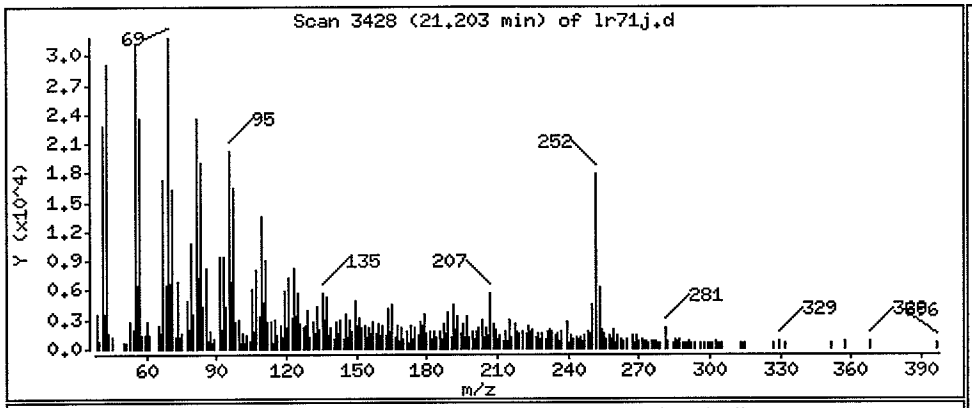
Client ID: AN-SS-06 Instrument: nt6.i

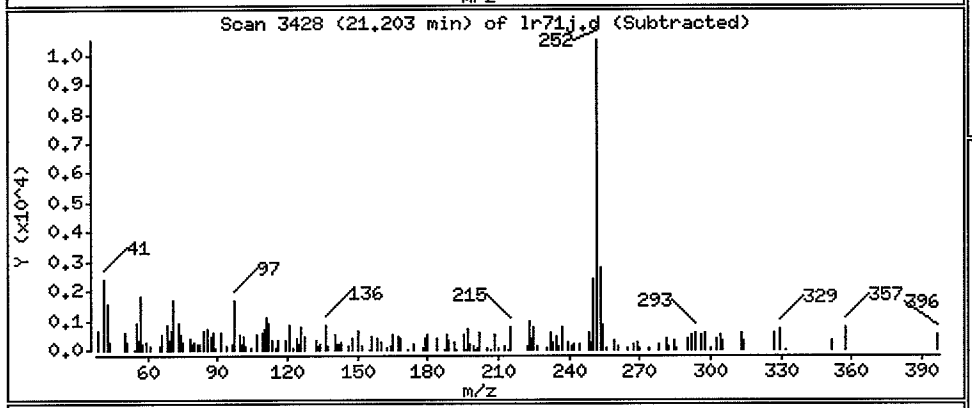
Sample Info: LR71J

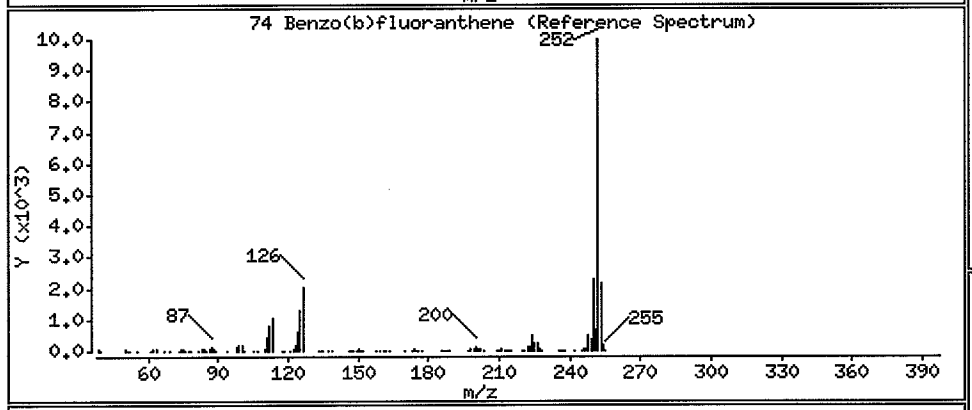
Volume Injected (uL): 1.0 Operator: LJR/VTS

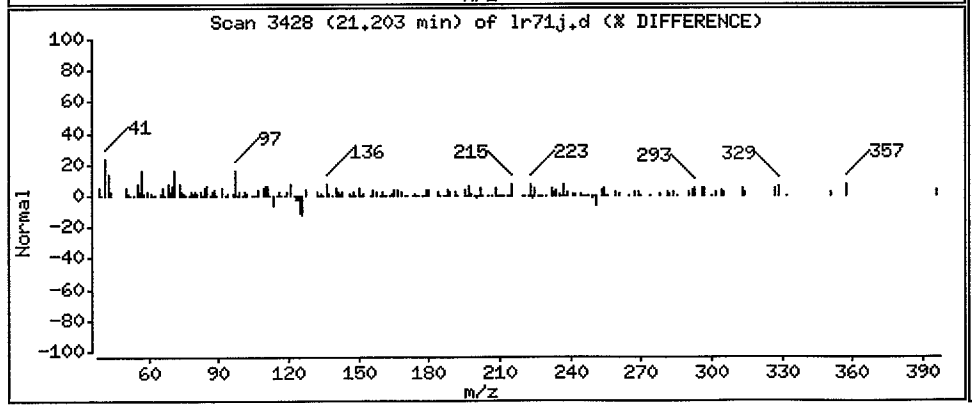
Column phase: ZB-5 Column diameter: 0.32

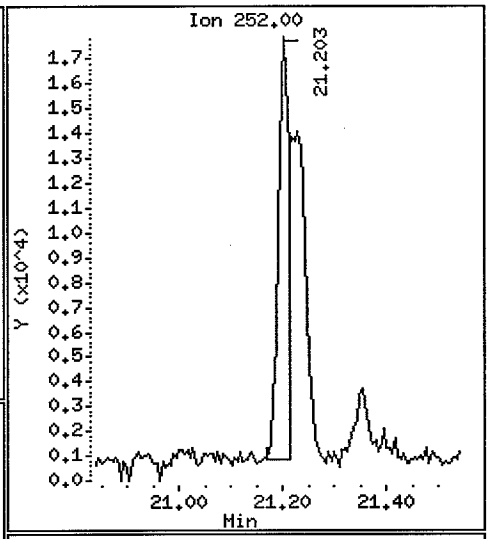
74 Benzo(b)fluoranthene Concentration: 12.47 ug/kg

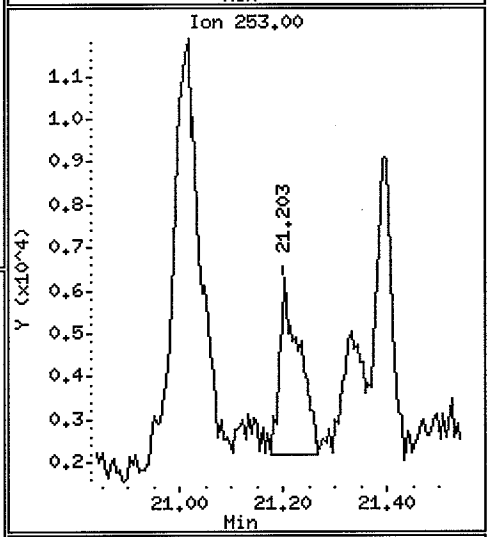


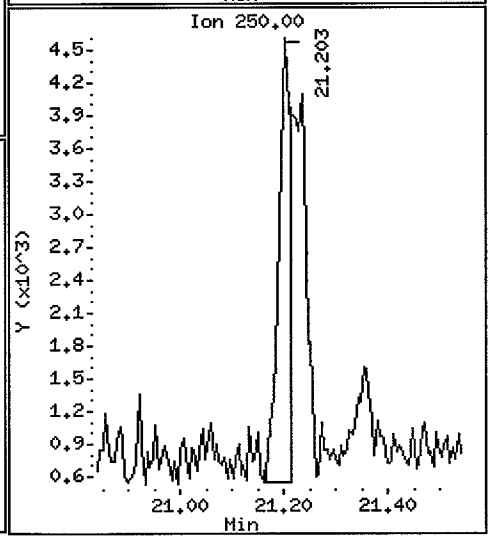












Data File: /chem1/nt6.i/20071018.b/lr71j.d

Date : 18-OCT-2007 20:18

Client ID: AN-SS-06 Instrument: nt6.i

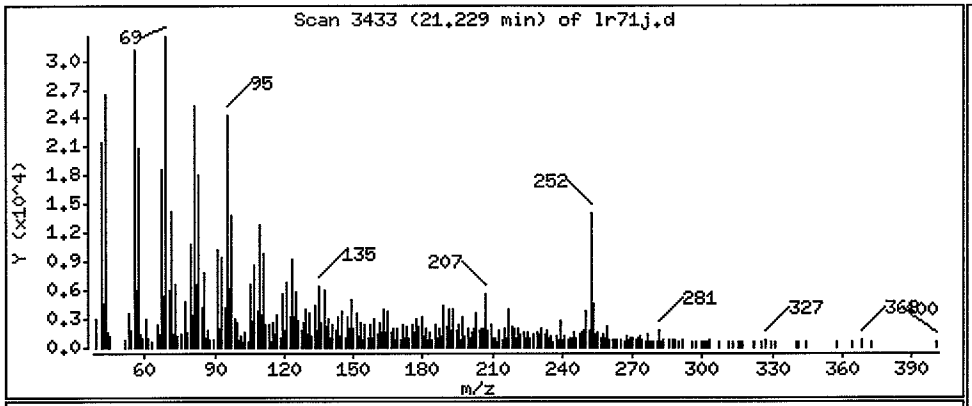
Sample Info: LR71J

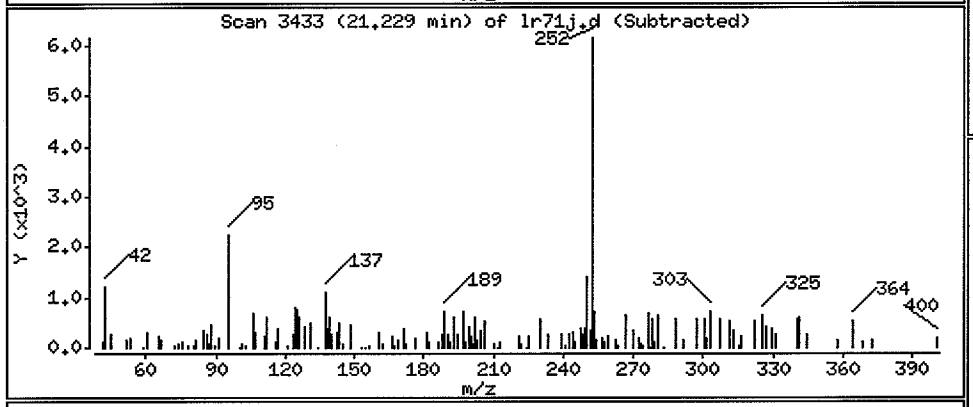
Volume Injected (uL): 1.0 Operator: LJR/VTS

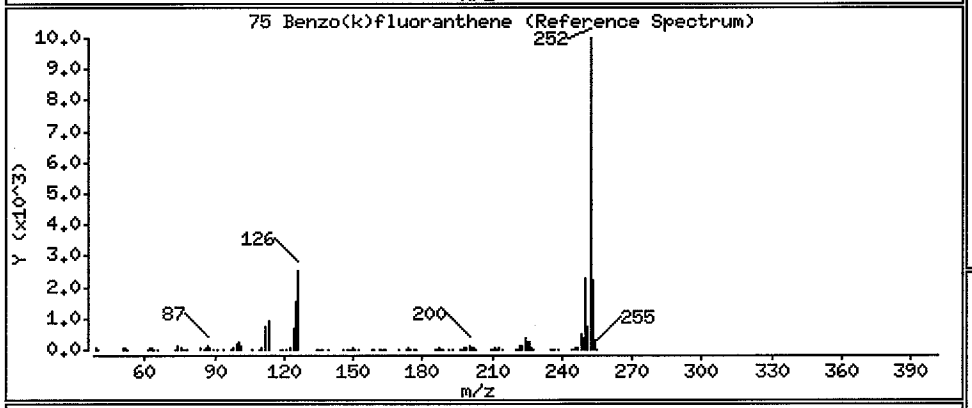
Column phase: ZB-5 Column diameter: 0.32

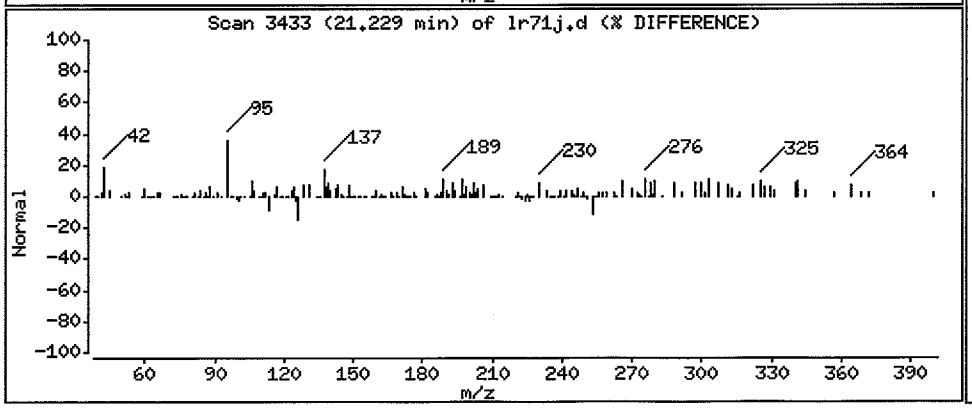
75 Benzo(k)fluoranthene Concentration: 14.16 ug/kg

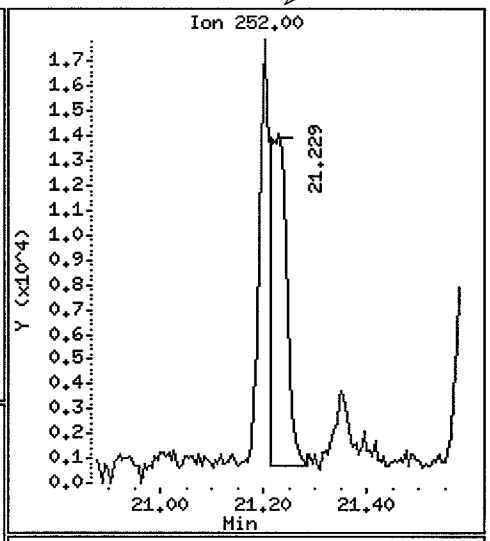
LRC

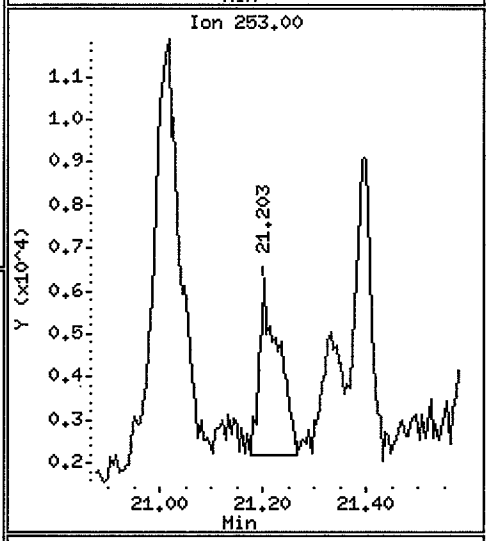


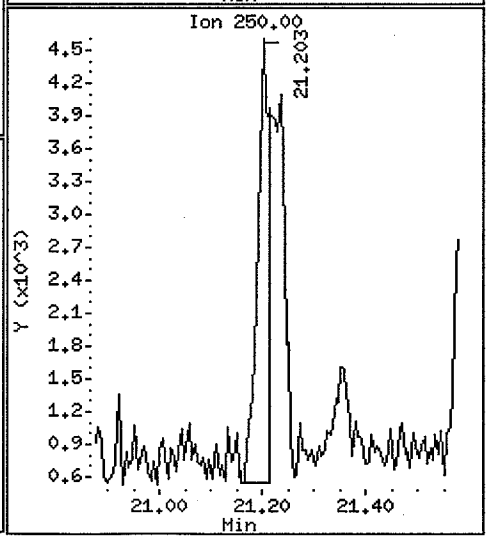












Data File: /chem1/nt6.i/20071018.b/lr71j.d

Date : 18-OCT-2007 20:18

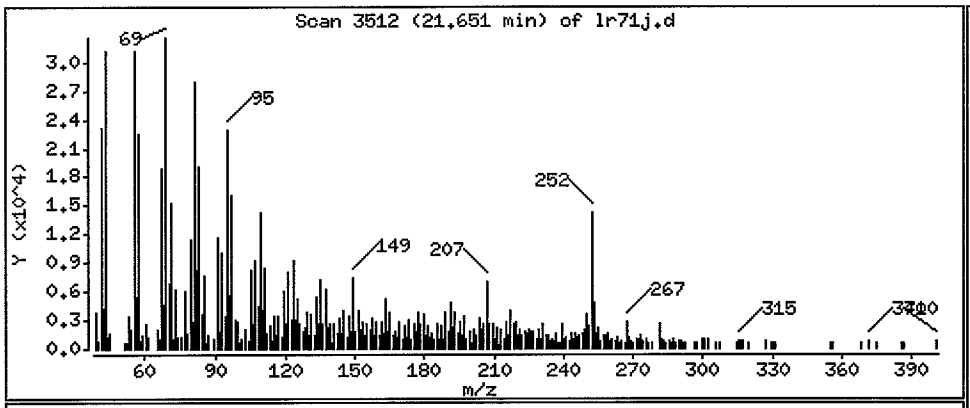
Client ID: AN-SS-06 Instrument: nt6.i

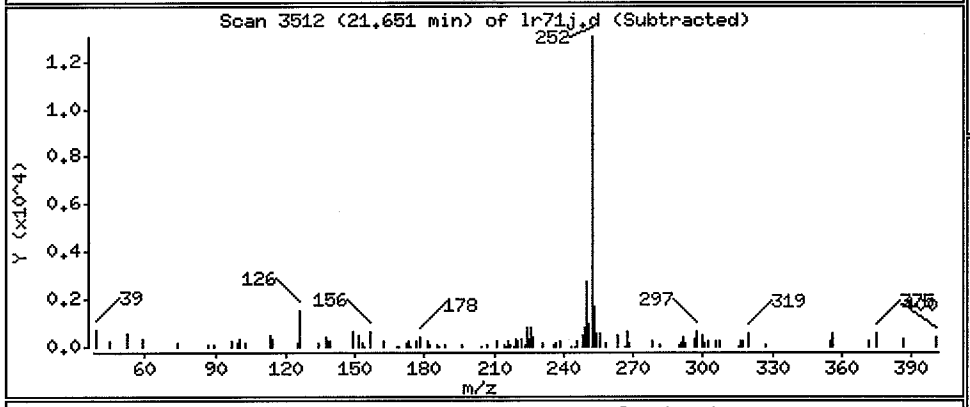
Sample Info: LR71J

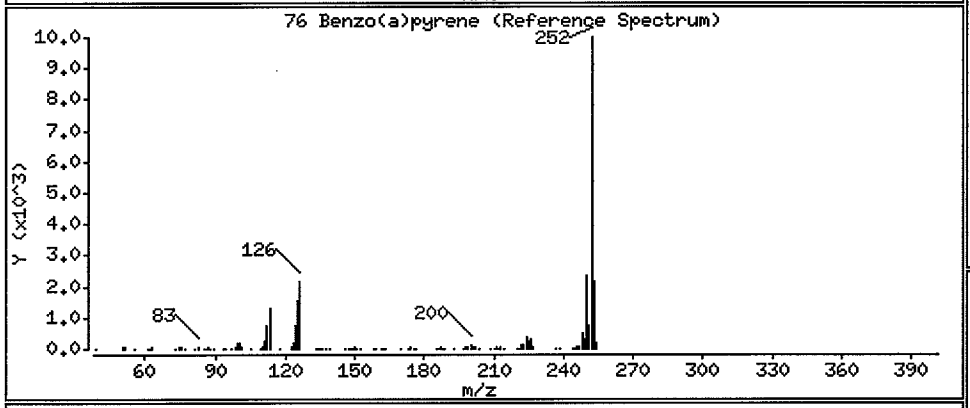
Volume Injected (uL): 1.0 Operator: LJR/VTS

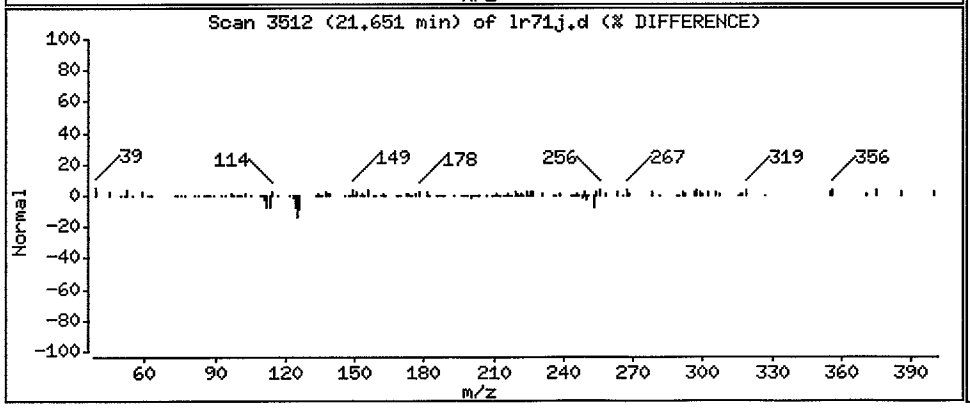
Column phase: ZB-5 Column diameter: 0.32

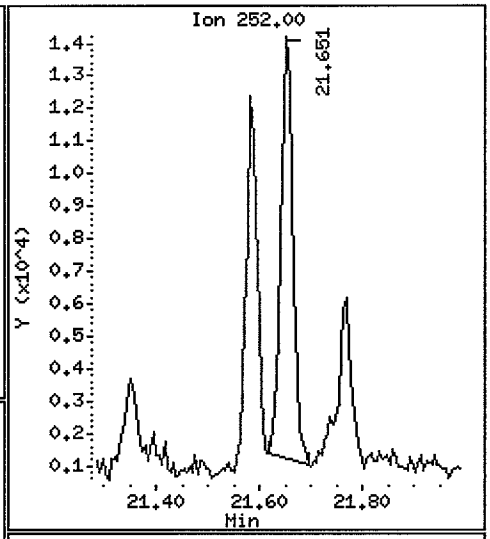
76 Benzo(a)pyrene Concentration: 11.95 ug/kg

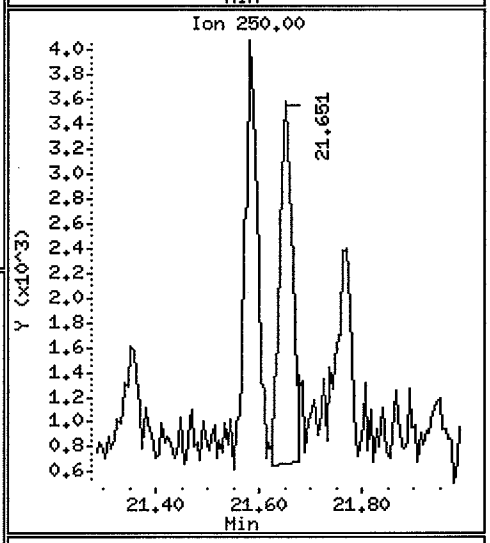


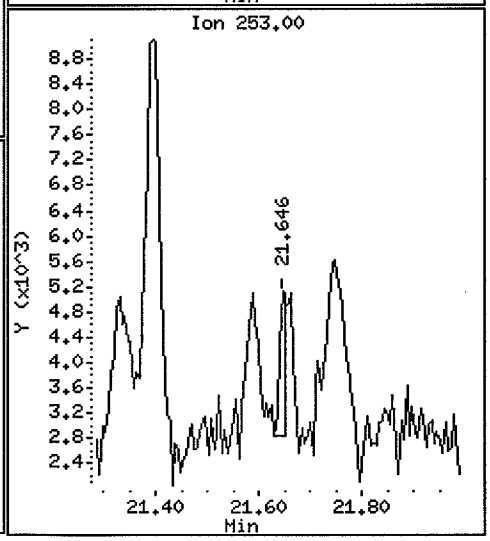












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS

Sample ID: AN-SS-06
REEXTRACT

Lab Sample ID: LR71J
LIMS ID: 07-20775
Matrix: Sediment
Data Release Authorized:
Reported: 01/25/08

QC Report No: LR71-Anchor Environmental, LLC
Project: Kimberly Clark Anacortes
NA
Date Sampled: 09/28/07
Date Received: 09/29/07

Date Extracted: 10/27/07
Date Analyzed: 11/01/07 21:52
Instrument/Analyst: NT4/LJR
GPC Cleanup: Yes

Sample Amount: 51.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 22.1%

CAS Number	Analyte	RL	Result
108-95-2	**Phenol**	**20**	**46**
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**	**230**
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	< 20 U
87-68-3	Hexachlorobutadiene	20	< 20 U
91-57-6	2-Methylnaphthalene	20	< 20 U
131-11-3	Dimethylphthalate	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	Acenaphthene	20	< 20 U
132-64-9	Dibenzofuran	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
86-73-7	Fluorene	20	< 20 U
86-30-6	N-Nitrosodiphenylamine	20	< 20 U
118-74-1	Hexachlorobenzene	10	< 10 UJ
87-86-5	Pentachlorophenol	98	< 98 U
85-01-8	**Phenanthrene**	**20**	**26**
120-12-7	Anthracene	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
206-44-0	**Fluoranthene**	**20**	**40**
129-00-0	**Pyrene**	**20**	**25**
85-68-7	Butylbenzylphthalate	20	< 20 U
56-55-3	**Benzo(a)anthracene**	**20**	**22**
117-81-7	bis(2-Ethylhexyl)phthalate	20	< 20 U
218-01-9	**Chrysene**	**20**	**30**
117-84-0	Di-n-Octyl phthalate	20	< 20 U
205-99-2	**Benzo(b)fluoranthene**	**20**	**23**
207-08-9	Benzo(k)fluoranthene	20	< 20 U
50-32-8	Benzo(a)pyrene	20	< 20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	Benzo(g,h,i)perylene	20	< 20 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: AN-SS-06**
Page 2 of 2 **REEXTRACT**

Lab Sample ID: LR71J QC Report No: LR71-Anchor Environmental, LLC
LIMS ID: 07-20775 Project: Kimberly Clark Anacortes
Matrix: Sediment NA
Date Analyzed: 11/01/07 21:52

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

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	55.6%	2-Fluorobiphenyl	59.6%
d14-p-Terphenyl	54.8%	d4-1,2-Dichlorobenzene	52.8%
d5-Phenol	56.3%	2-Fluorophenol	46.4%
2,4,6-Tribromophenol	61.6%	d4-2-Chlorophenol	55.7%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20071101.b/lr71j2.d
Lab Smp Id: LR71JRE
Inj Date : 01-NOV-2007 21:52
Operator : VTS Inst ID: nt4.i
Smp Info : LR71JRE
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: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

LJR 11/2/07

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	4.827	4.748	(0.707)	250279	17.3851	347.7
$ 2	Phenol-d5	99	6.515	6.489	(0.955)	340284	21.1178	422.4
3	Phenol	94	6.531	6.505	(0.957)	45054	2.35430	47.09
$ 5	2-Chlorophenol-d4	132	6.542	6.521	(0.958)	249762	20.8959	417.9
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	6.825	6.820	(1.000)	170134	20.0000	
9	1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10	1,2-Dichlorobenzene-d4	152	7.124	7.114	(1.044)	101441	13.1899	263.8
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	7.701	7.686	(1.128)	150674	11.7093	234.2
$	18 Nitrobenzene-d5	82	7.776	7.771	(0.877)	225319	13.8636	277.3
	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	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	8.871	8.872	(1.000)	616125	20.0000	
	28 Naphthalene	128	8.898	8.899	(1.003)	22195	0.58677 LOL	11.74
	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	Compound Not Detected.					
	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)	339137	14.9373	298.7
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.687	11.682	(1.000)	328811	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	Compound Not Detected.					
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
	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	12.958	12.953	(1.109)	65431	23.1161	462.3
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.000	14.000	(1.000)	471706	20.0000	
	60 Phenanthrene	178	14.032	14.032	(1.002)	42639	1.30792	26.16
	61 Anthracene	178	Compound Not Detected.					
	62 Carbazole	167	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)
63	Di-n-butylphthalate	149	Compound Not Detected.					
64	Fluoranthene	202	15.928	15.923	(1.138)	71375	2.02222	40.44
65	Pyrene	202	16.265	16.260	(0.892)	52202	1.29195	25.84
$ 66	Terphenyl-d14	244	16.644	16.634	(0.913)	320170	13.7259	274.5
67	Butylbenzylphthalate	149	Compound Not Detected.					
68	Benzo(a)anthracene	228	18.209	18.199	(0.999)	42729	1.14031	22.81
* 69	Chrysene-d12	240	18.231	18.221	(1.000)	504181	20.0000	
70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71	Chrysene	228	18.263	18.258	(1.002)	56916	1.54414	30.88
72	bis(2-Ethylhexyl)phthalate	149	18.589	18.578	(0.953)	20229	0.92777 LOL	18.56(M)
* 134	Di-n-octylphthalate-d4	153	19.507	19.503	(1.000)	692029	20.0000	
73	Di-n-octylphthalate	149	Compound Not Detected.					
74	Benzo(b)fluoranthene	252	19.833	19.818	(0.975)	46016	1.20225	24.05
75	Benzo(k)fluoranthene	252	19.855	19.850	(0.976)	26500	0.65541 LOL	13.11(M)
76	Benzo(a)pyrene	252	20.266	20.245	(0.996)	27348	0.80231 ↓	16.05
* 77	Perylene-d12	264	20.341	20.325	(1.000)	562162	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
79	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
80	Benzo(g,h,i)perylene	276	Compound Not Detected.					
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	Compound Not Detected.					
111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: lr71j2.d
Lab Smp Id: LR71JRE
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	170134	17.02
27 Naphthalene-d8	530525	265262	1061050	616125	16.13
42 Acenaphthene-d10	280701	140350	561402	328811	17.14
59 Phenanthrene-d10	391934	195967	783868	471706	20.35
69 Chrysene-d12	354658	177329	709316	504181	42.16
134 Di-n-octylphthala	506314	253157	1012628	692029	36.68
77 Perylene-d12	400782	200391	801564	562162	40.27

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.82	6.32	7.32	6.83	0.07
27 Naphthalene-d8	8.87	8.37	9.37	8.87	-0.01
42 Acenaphthene-d10	11.68	11.18	12.18	11.69	0.04
59 Phenanthrene-d10	14.00	13.50	14.50	14.00	0.00
69 Chrysene-d12	18.22	17.72	18.72	18.23	0.06
134 Di-n-octylphthala	19.50	19.00	20.00	19.51	0.02
77 Perylene-d12	20.33	19.83	20.83	20.34	0.08

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.

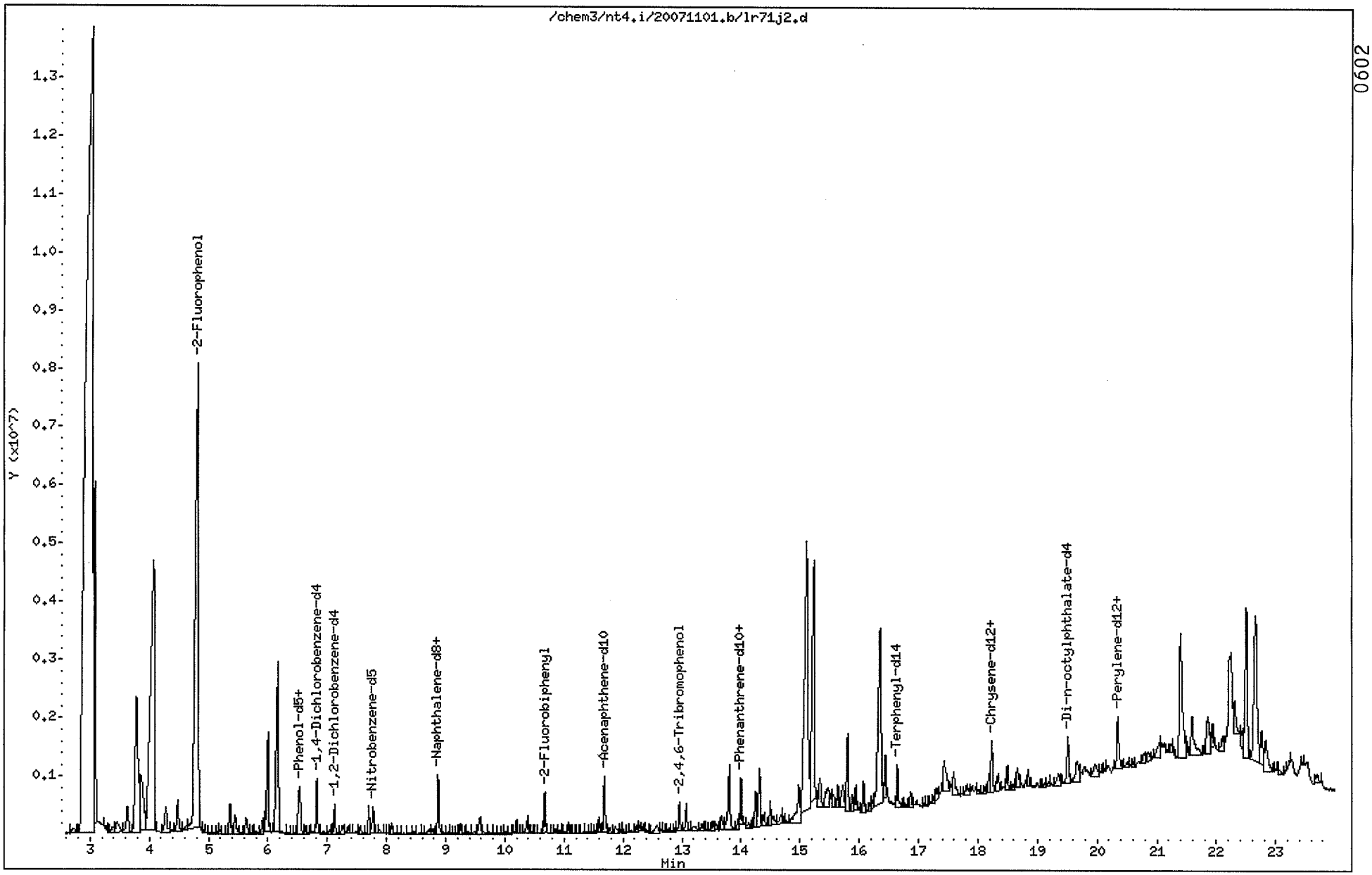
RECOVERY REPORT

Client Name: Client SDG: 20071101
Sample Matrix: SOLID Fraction: SV
Lab Smp Id: LR71JRE
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	347.7	46.36	11-84
$ 2 Phenol-d5	750.0	422.4	56.31	25-86
$ 5 2-Chlorophenol-d4	750.0	417.9	55.72	23-91
$ 10 1,2-Dichlorobenzen	500.0	263.8	52.76	24-90
$ 18 Nitrobenzene-d5	500.0	277.3	55.45	26-88
$ 36 2-Fluorobiphenyl	500.0	298.7	59.75	34-91
$ 55 2,4,6-Tribromophen	750.0	462.3	61.64	25-107
$ 66 Terphenyl-d14	500.0	274.5	54.90	22-100

Data File: /chem3/nt4.i/20071101.b/lr71j2.d
Date : 01-NOV-2007 21:52
Client ID:
Sample Info: LR71JRE
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/lr71j2.d

Date : 01-NOV-2007 21:52

Client ID:

Instrument: nt4.i

Sample Info: LR71JRE

Volume Injected (uL): 1.0

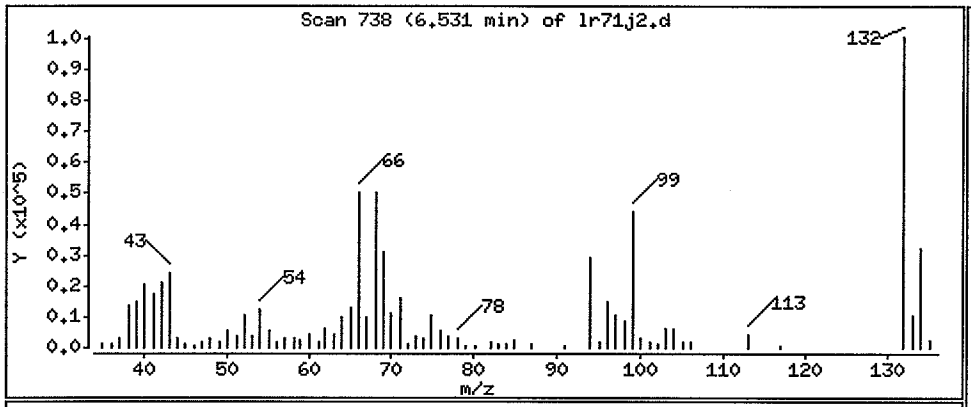
Operator: VTS

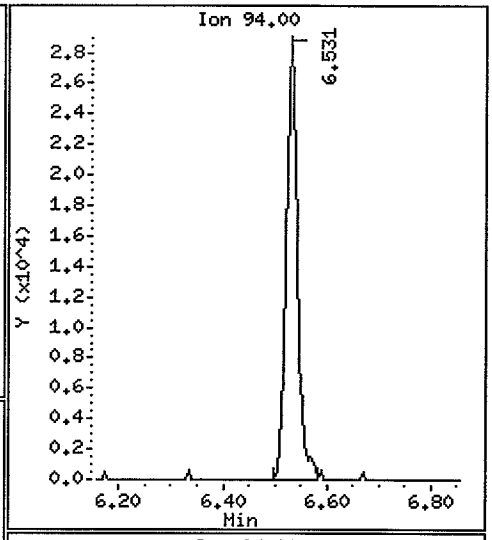
Column phase: ZB-5

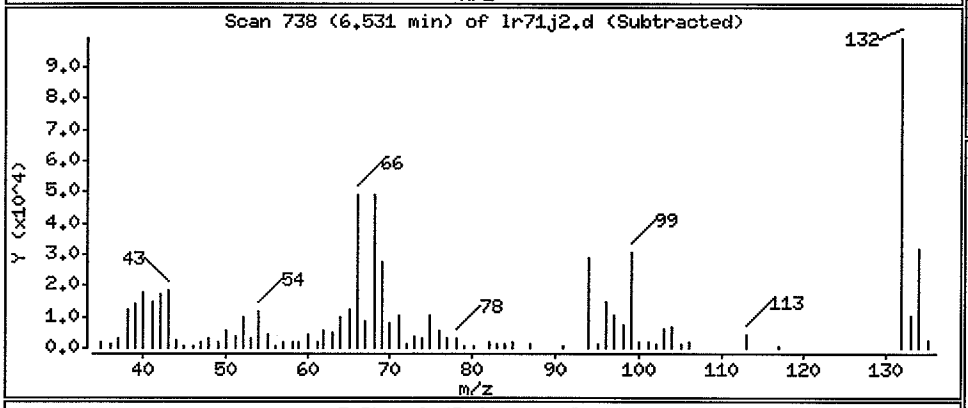
Column diameter: 0.32

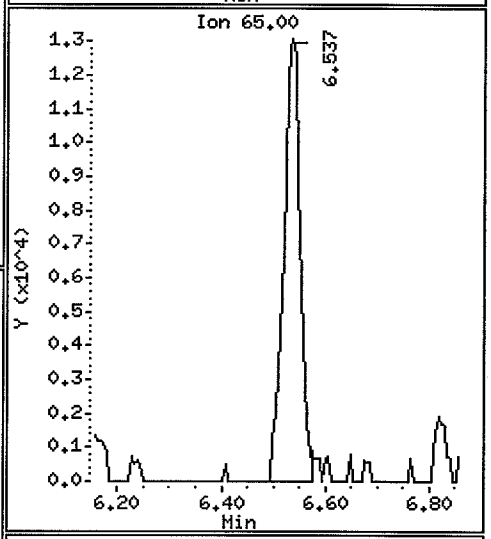
3 Phenol

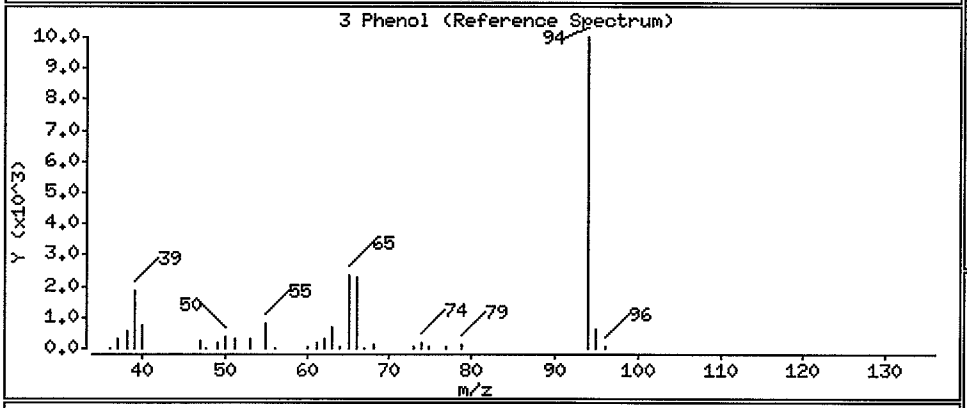
Concentration: 47.09 ug/Kg

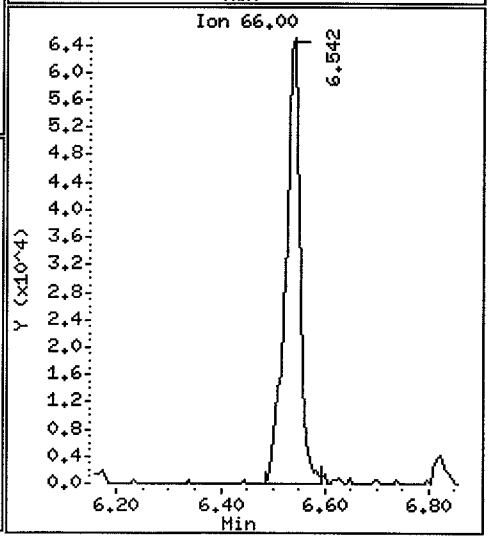


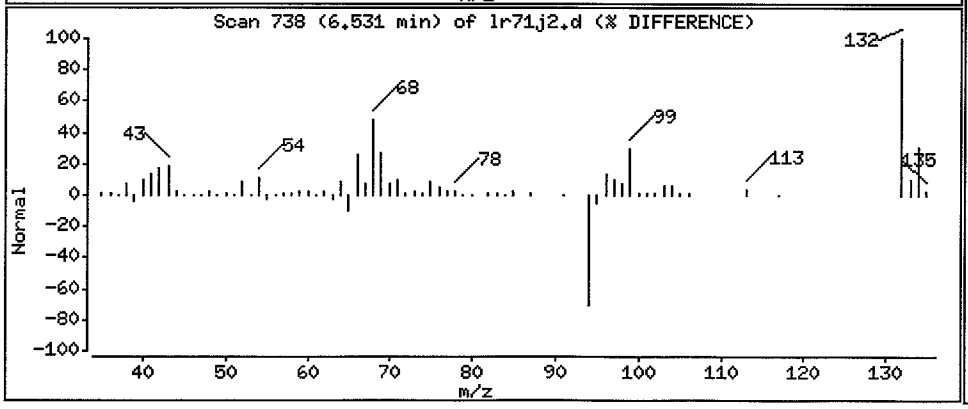












Data File: /chem3/nt4.i/20071101.b/lr71j2.d

Date : 01-NOV-2007 21:52

Client ID:

Instrument: nt4.i

Sample Info: LR71JRE

Volume Injected (uL): 1.0

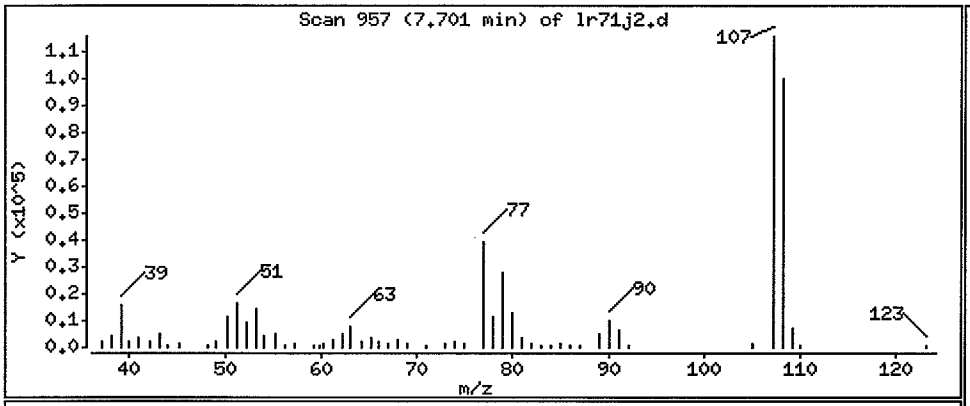
Operator: VTS

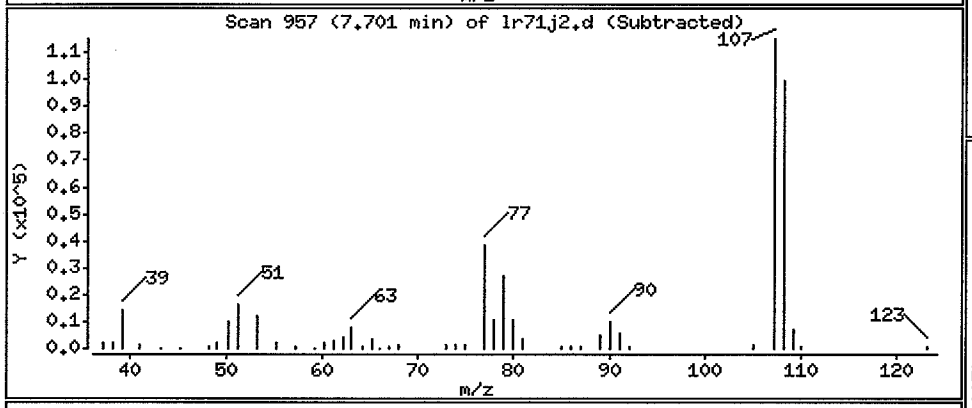
Column phase: ZB-5

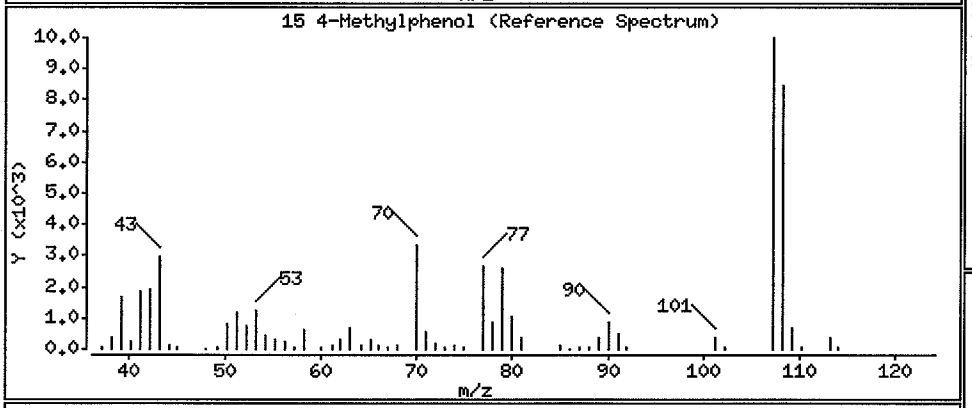
Column diameter: 0.32

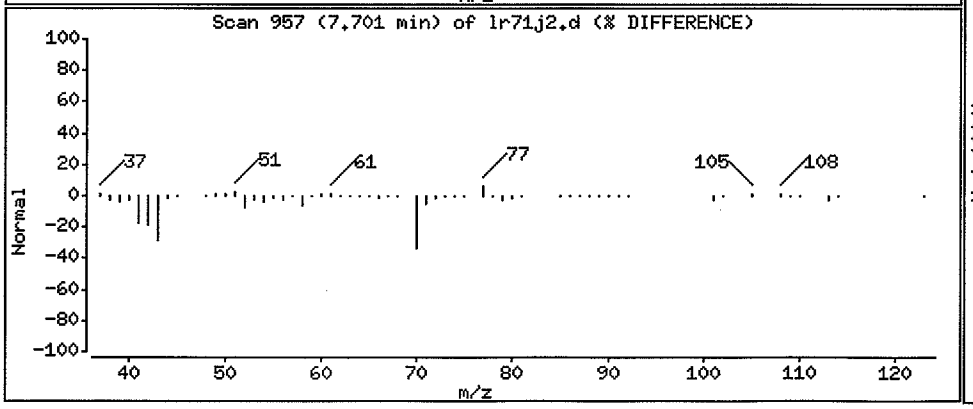
15 4-Methylphenol

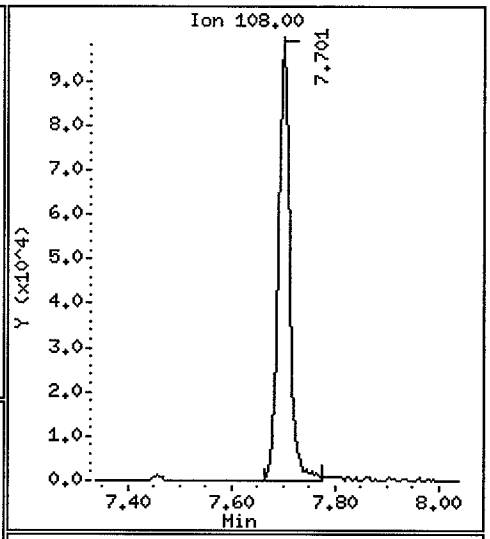
Concentration: 234.2 ug/Kg

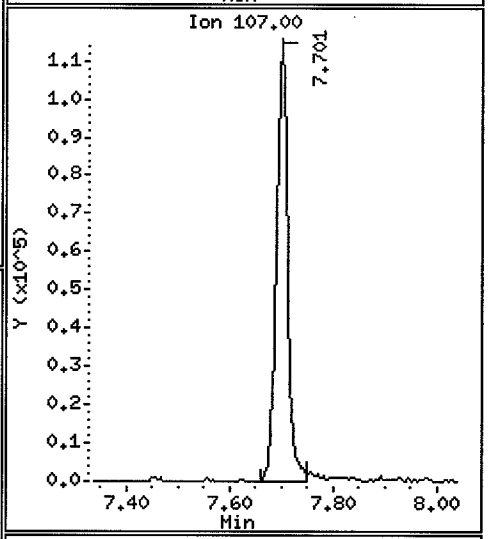


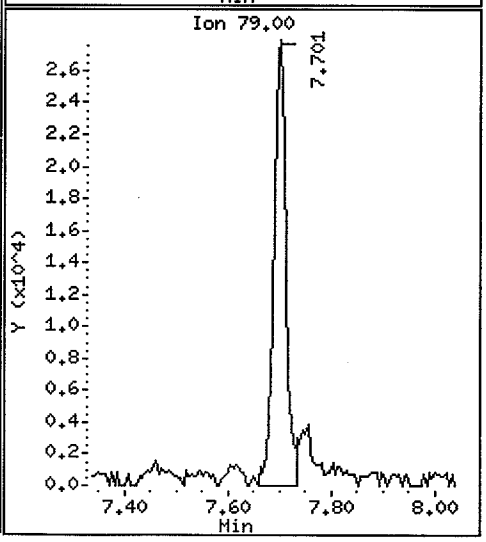












Data File: /chem3/nt4.i/20071101.b/lr71j2.d

Date : 01-NOV-2007 21:52

Client ID:

Instrument: nt4.i

Sample Info: LR71JRE

Volume Injected (uL): 1.0

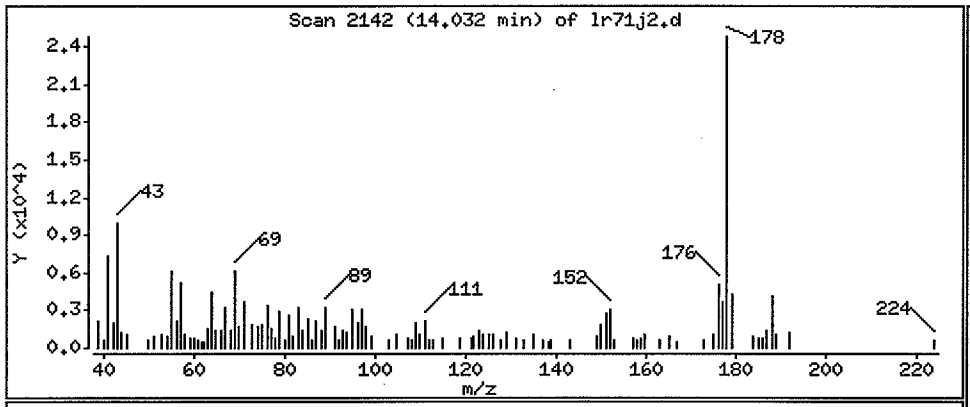
Operator: VTS

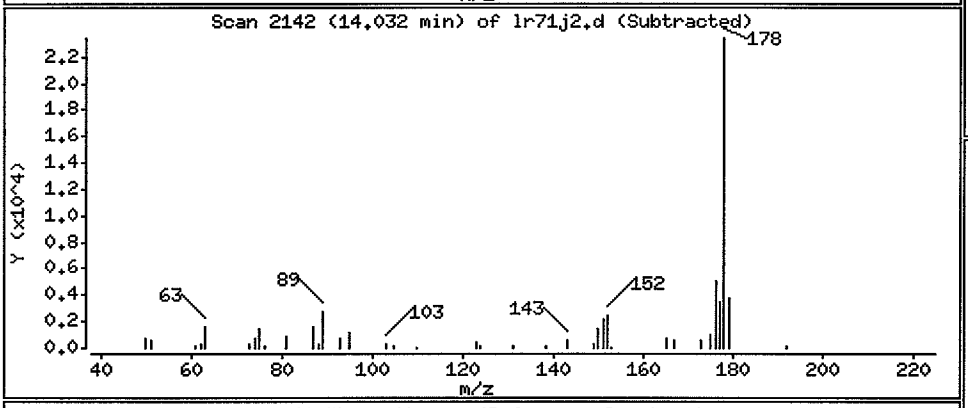
Column phase: ZB-5

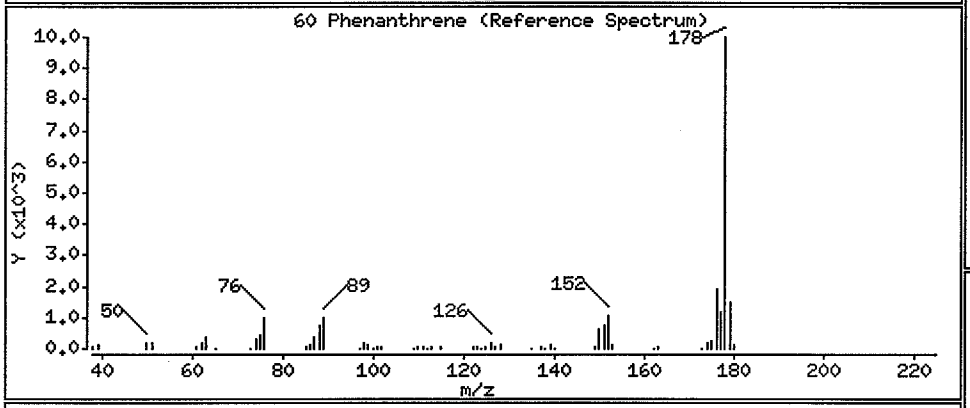
Column diameter: 0.32

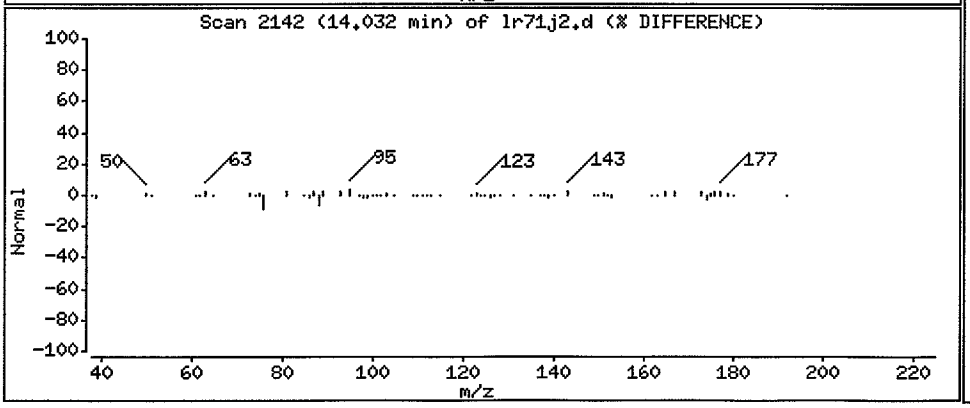
60 Phenanthrene

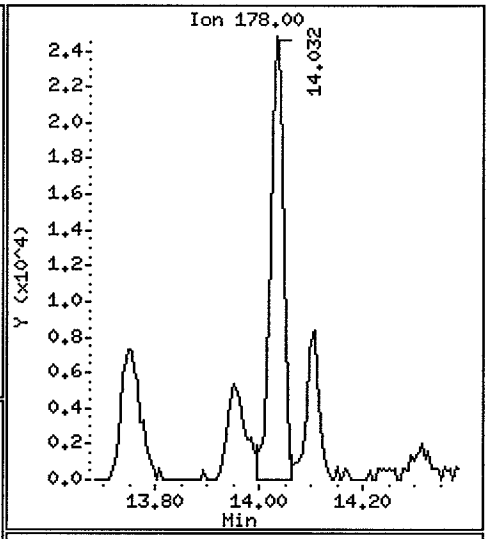
Concentration: 26.16 ug/Kg

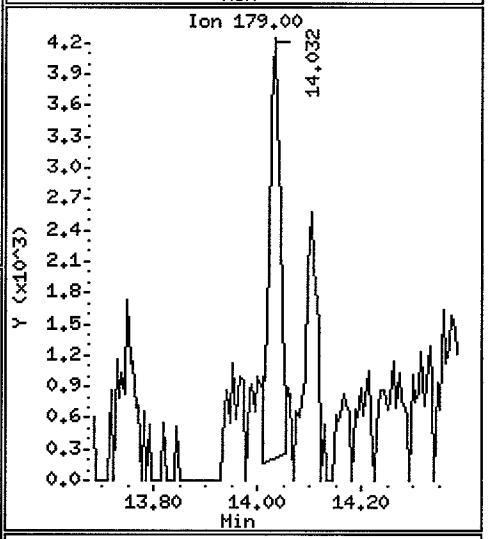


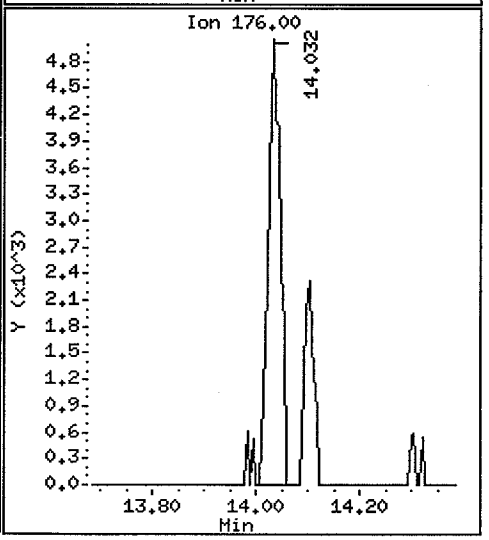












Data File: /chem3/nt4.i/20071101.b/lr71j2.d

Date : 01-NOV-2007 21:52

Client ID:

Instrument: nt4.i

Sample Info: LR71JRE

Volume Injected (uL): 1.0

Operator: VTS

Column phase: ZB-5

Column diameter: 0.32

64 Fluoranthene

Concentration: 40.44 ug/Kg

