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

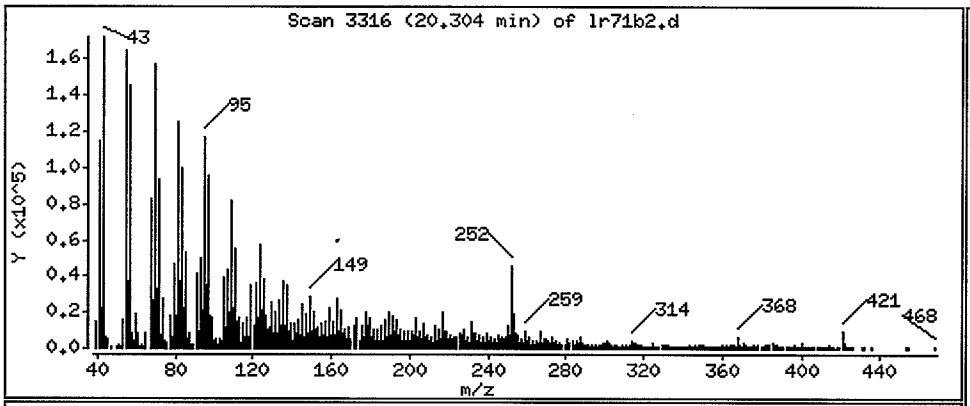
Operator: VTS

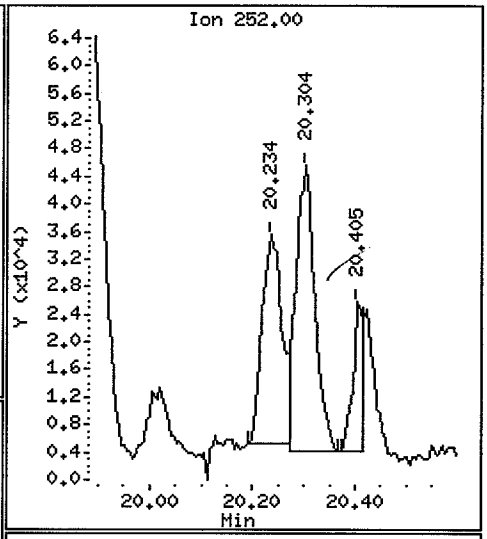
Column phase: ZB-5

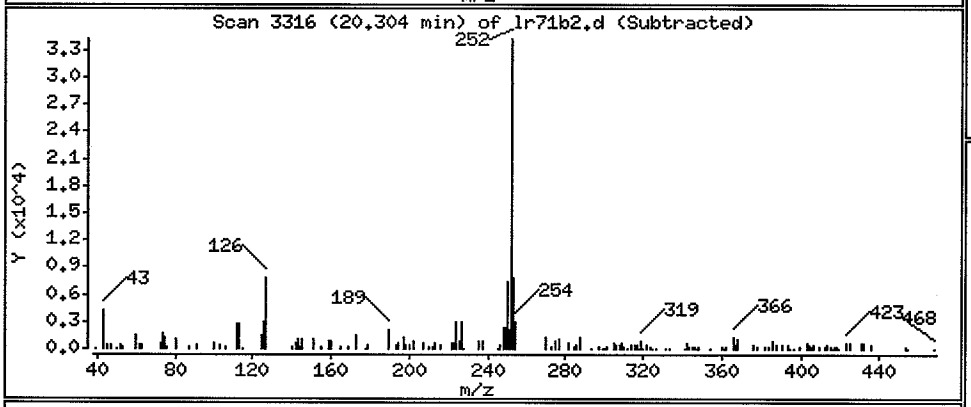
Column diameter: 0.32

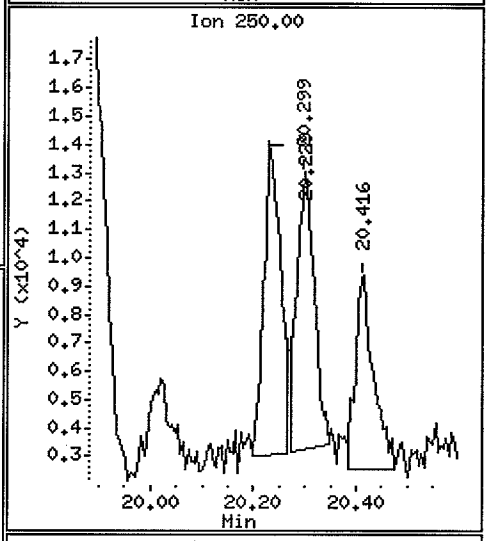
76 Benzo(a)pyrene

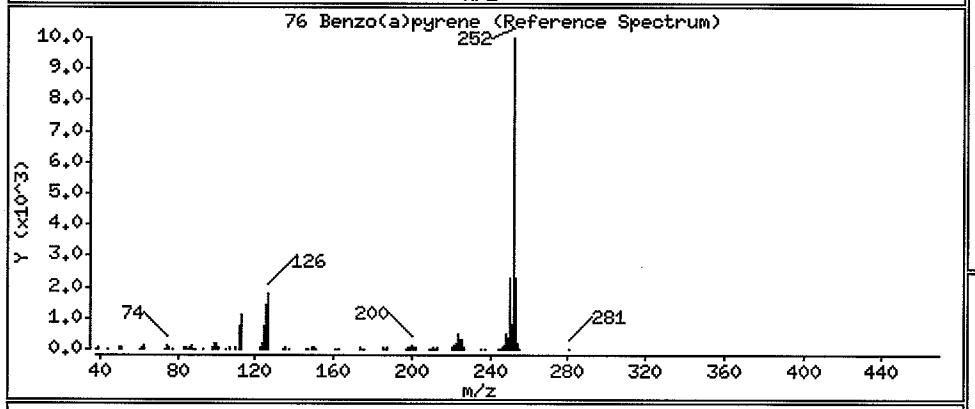
Concentration: 72.43 ug/Kg

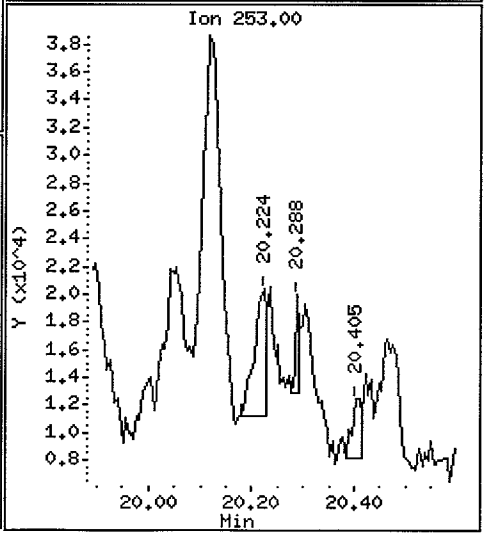


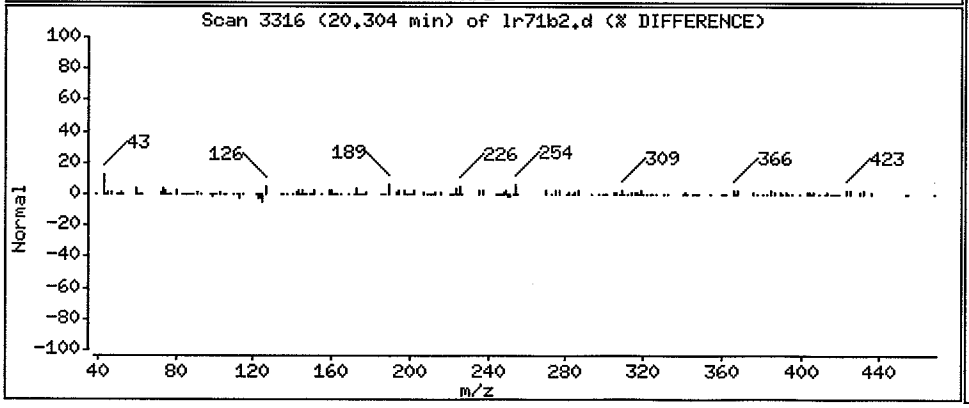












Data File: /chem3/nt4.i/20071101.b/lr71b2.d

Date : 01-NOV-2007 17:11

Client ID:

Instrument: nt4.i

Sample Info: LR71BRE

Volume Injected (uL): 1.0

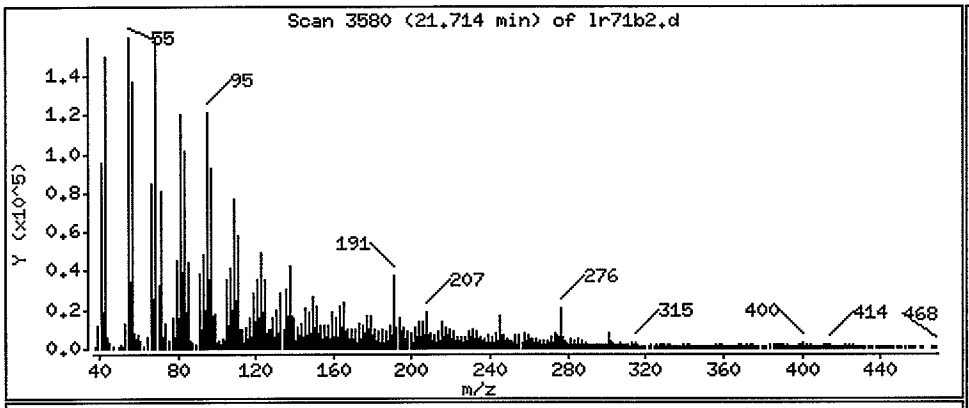
Operator: VTS

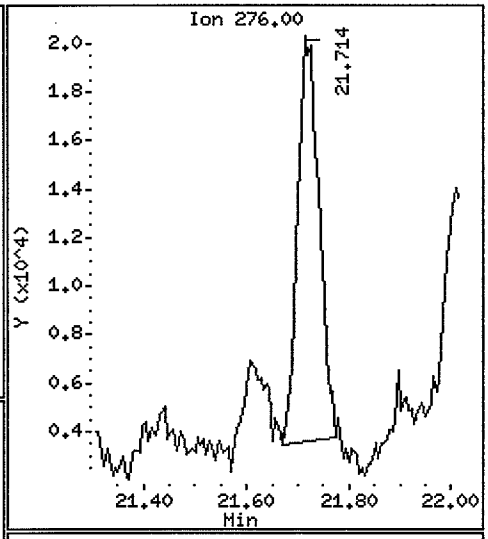
Column phase: ZB-5

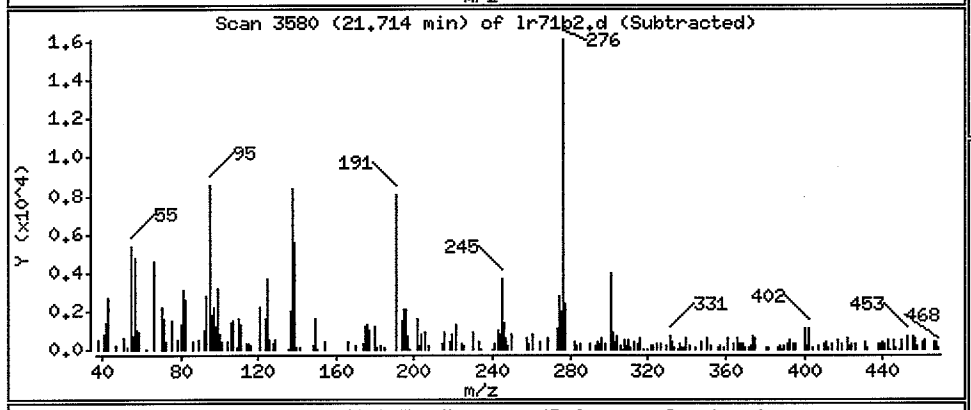
Column diameter: 0.32

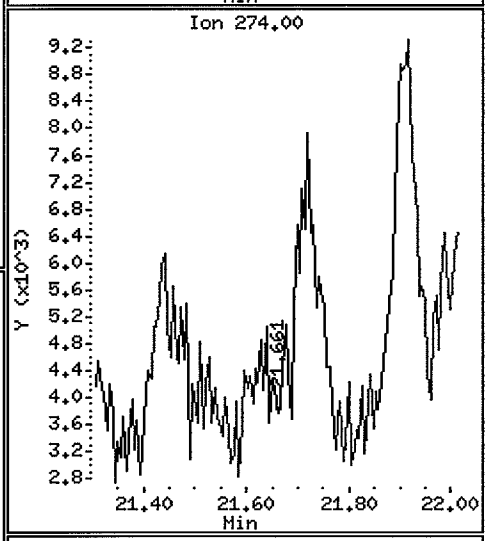
78 Indeno(1,2,3-cd)pyrene

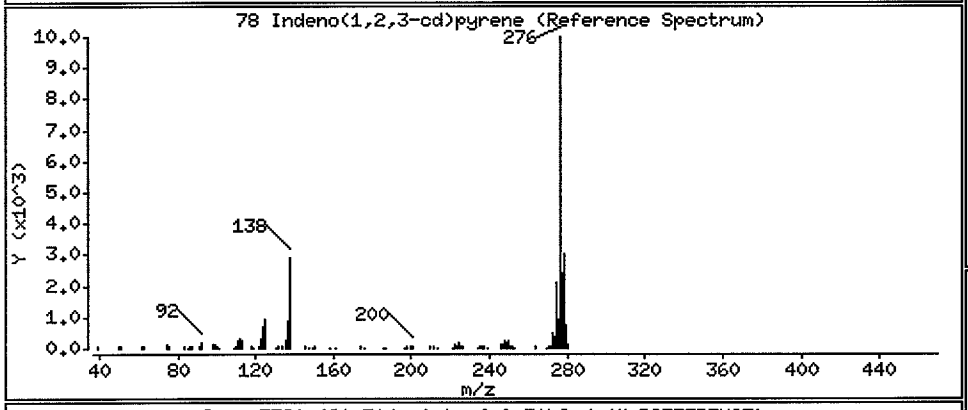
Concentration: 29.41 ug/Kg

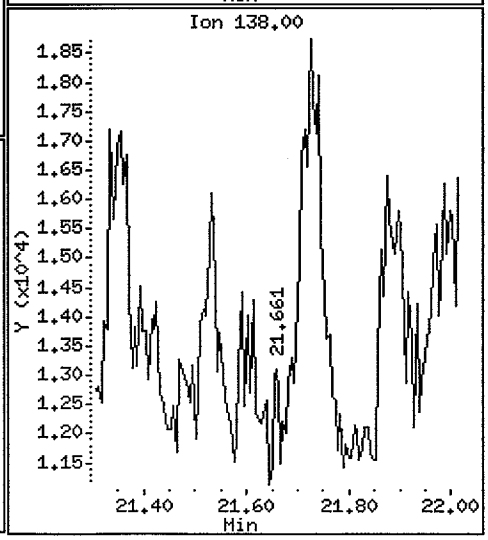


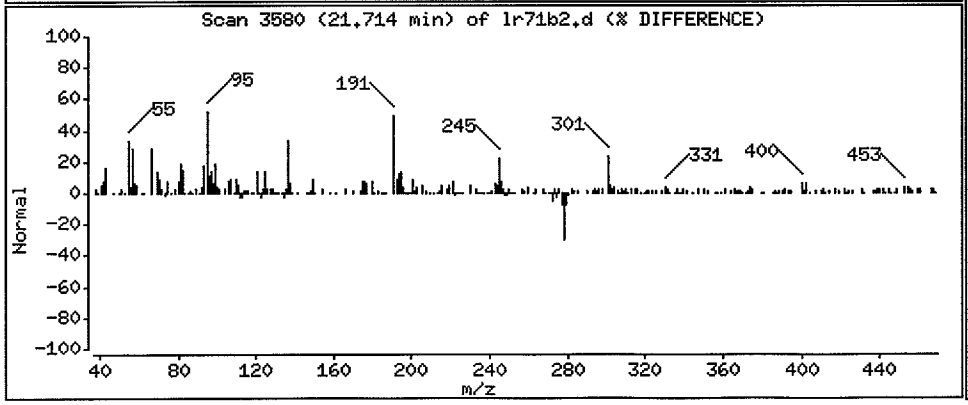












Data File: /chem3/nt4.i/20071101.b/lr71b2.d

Date : 01-NOV-2007 17:11

Client ID:

Instrument: nt4.i

Sample Info: LR71BRE

Volume Injected (uL): 1.0

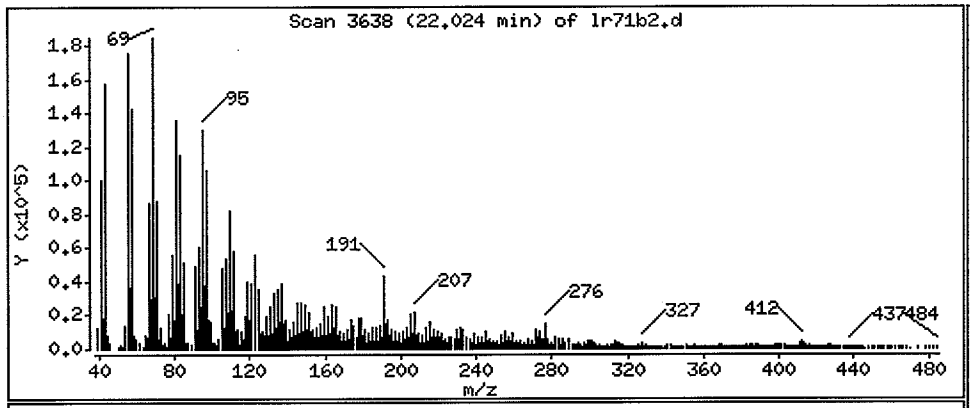
Operator: VTS

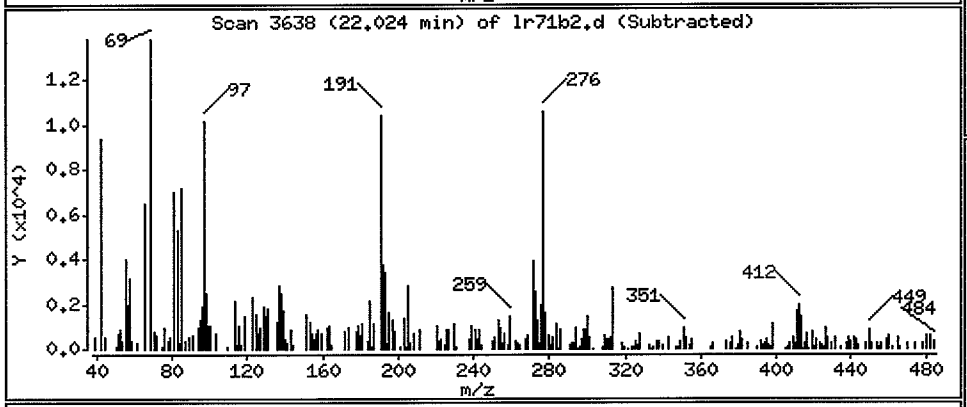
Column phase: ZB-5

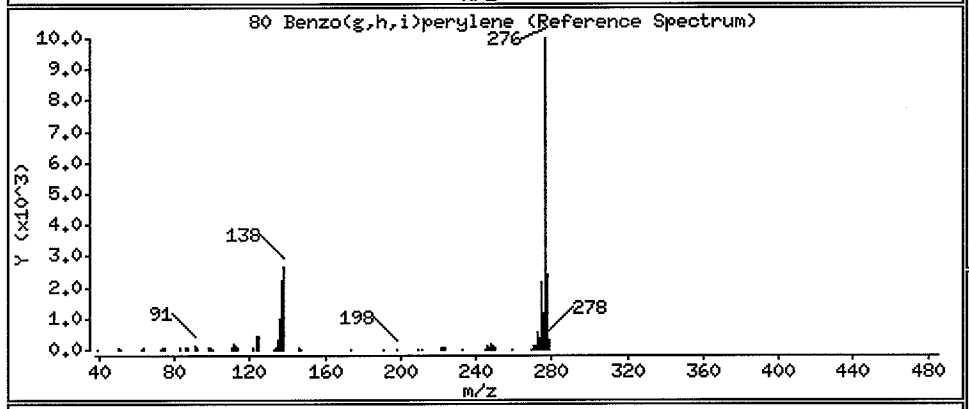
Column diameter: 0.32

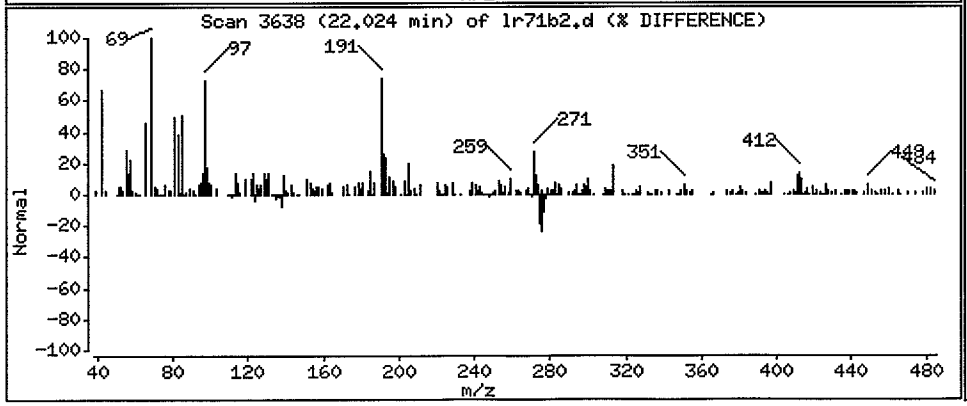
80 Benzo(g,h,i)perylene

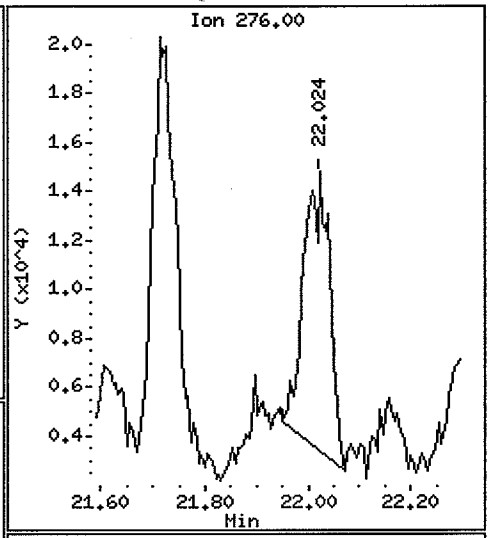
Concentration: 26.76 ug/Kg

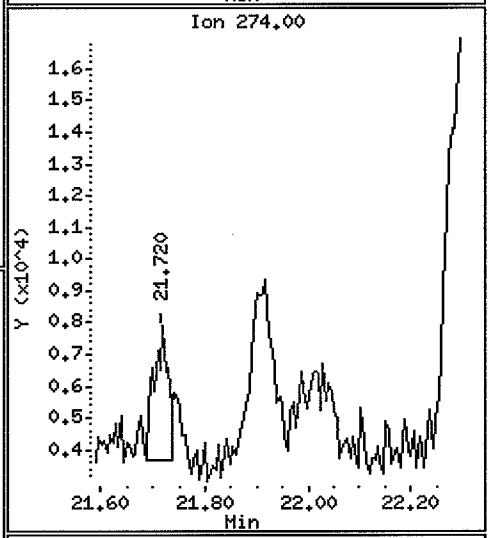


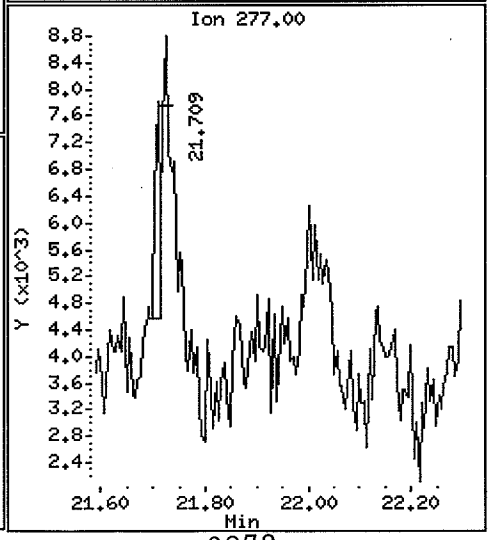




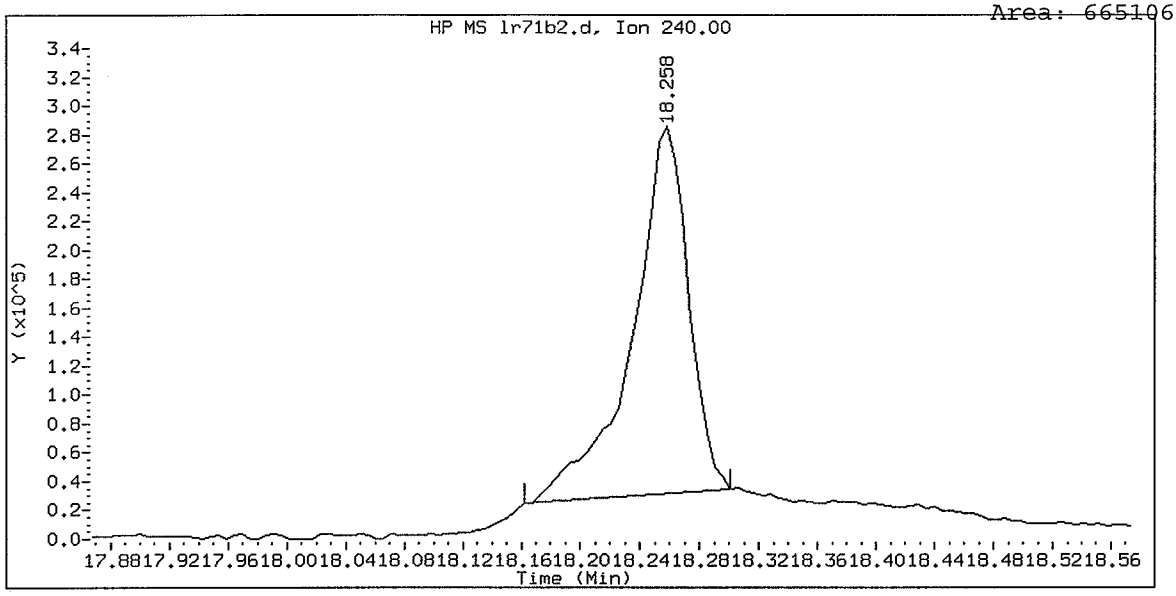


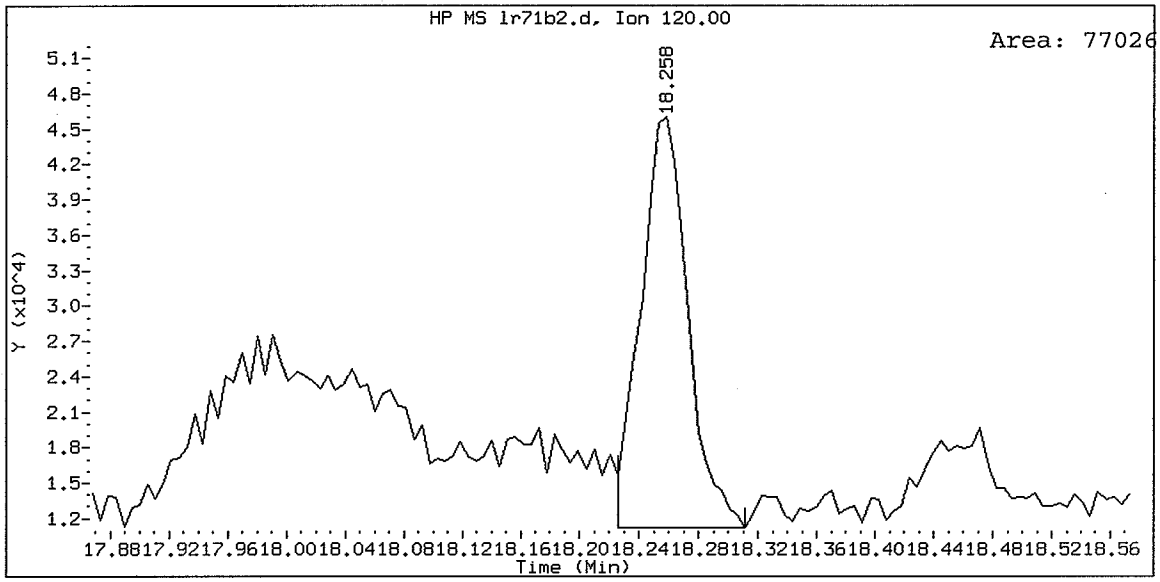


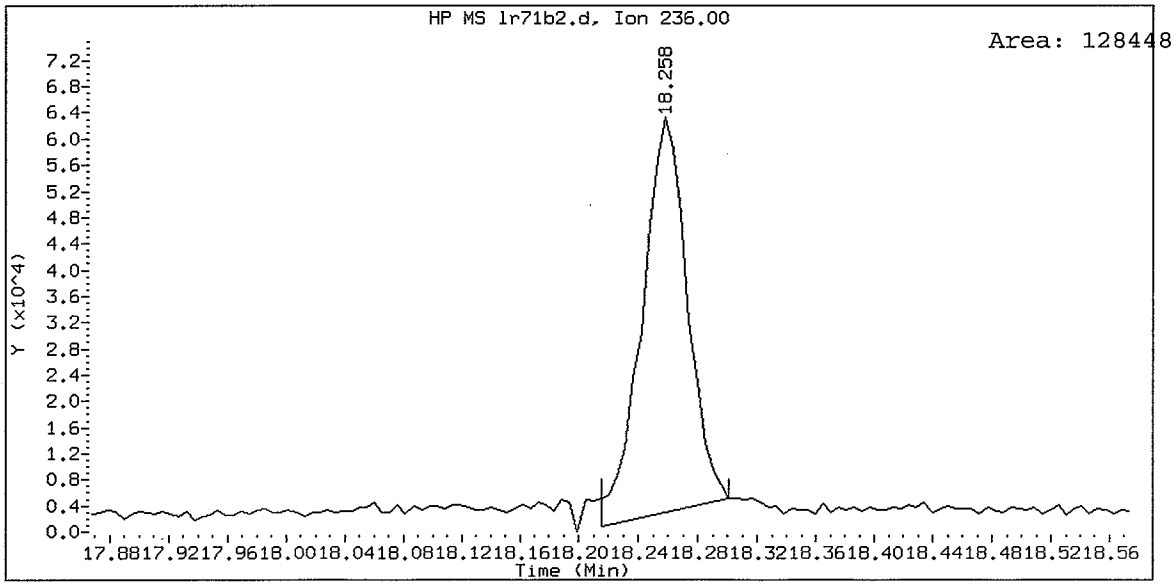




LR71BRE, /chem3/nt4.i/20071101.b/lr71b2.d
Chrysene-d12 Amount: 20.00







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

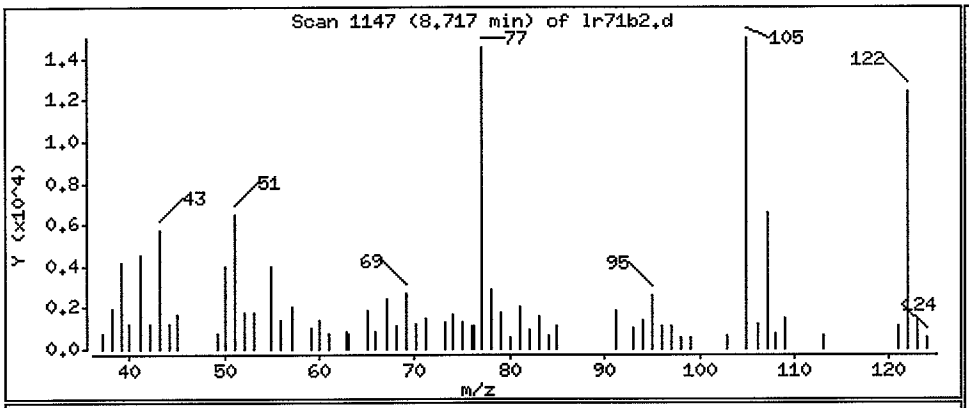
Operator: VTS

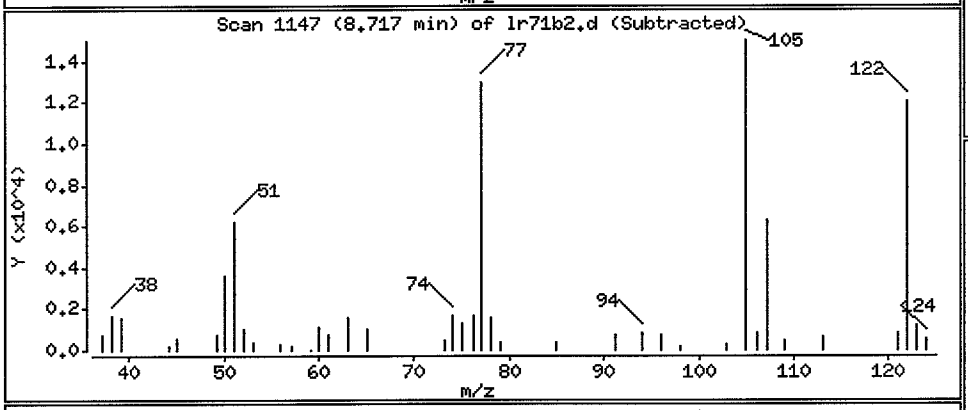
Column phase: ZB-5

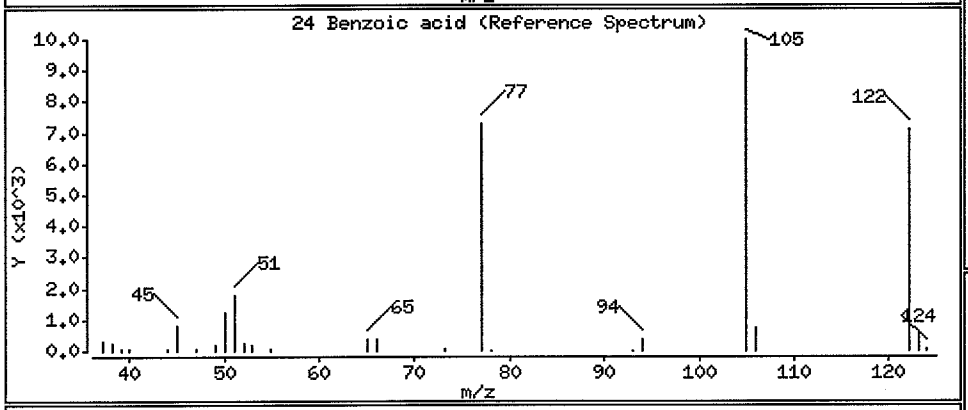
Column diameter: 0.32

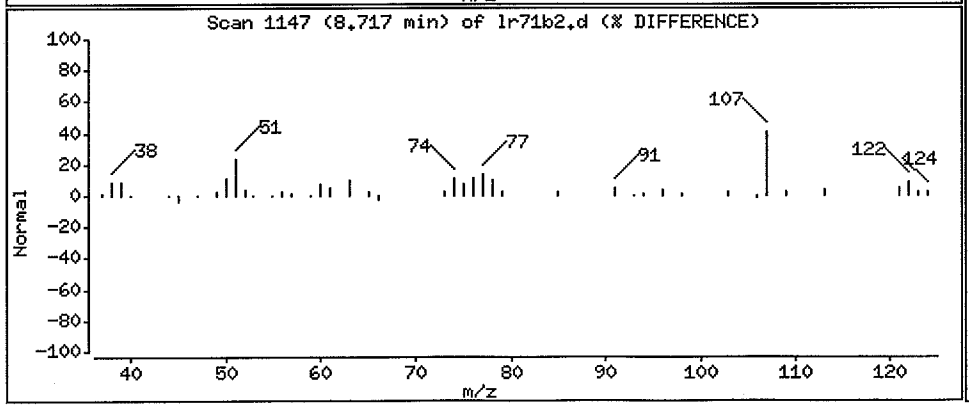
24 Benzoic acid

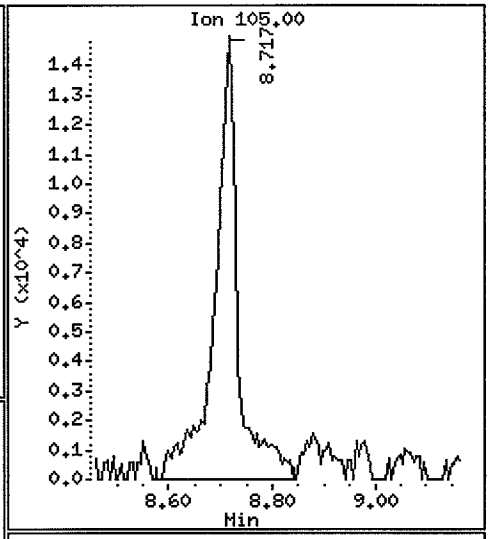
Concentration: 114.7 ug/Kg

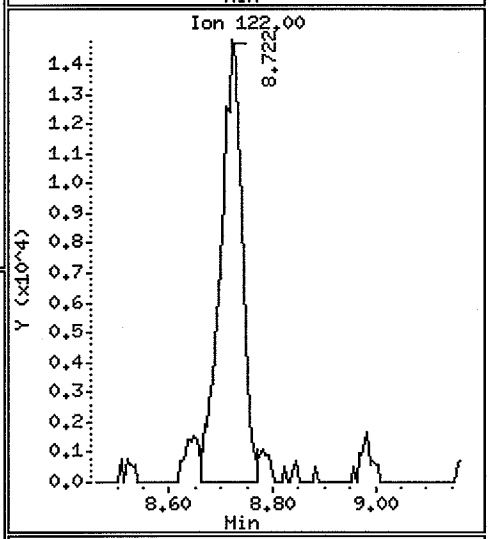


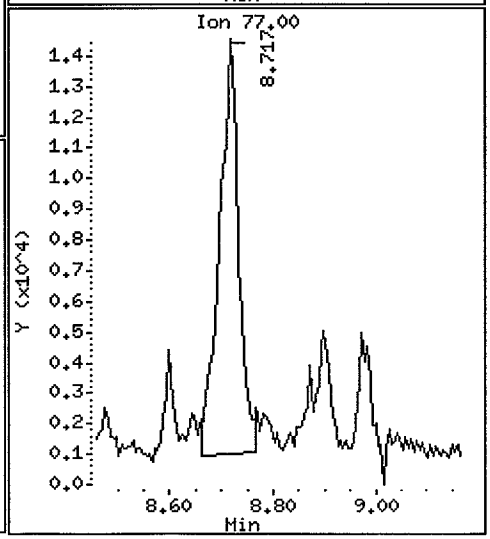












Data File: /chem3/nt4.i/20071101.b/lr71b2.d

Date : 01-NOV-2007 17:11

Client ID:

Instrument: nt4.i

Sample Info: LR71BRE

Volume Injected (uL): 1.0

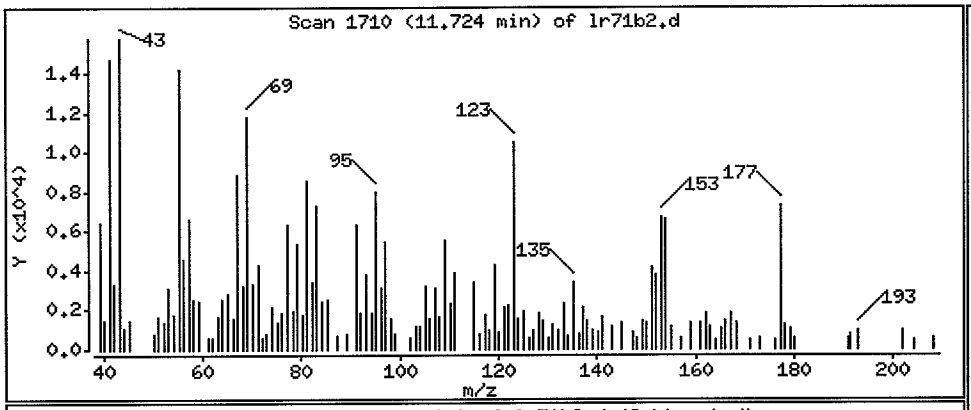
Operator: VTS

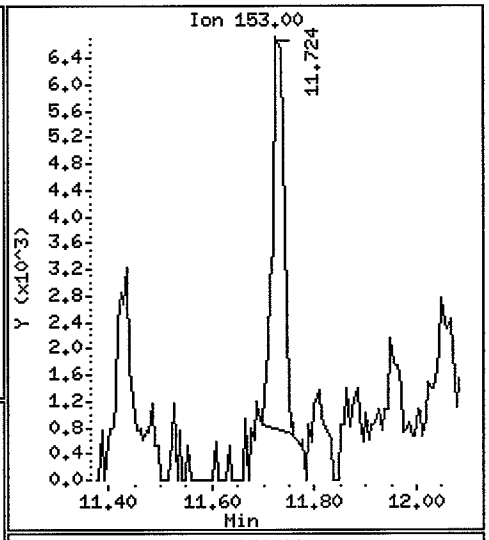
Column phase: ZB-5

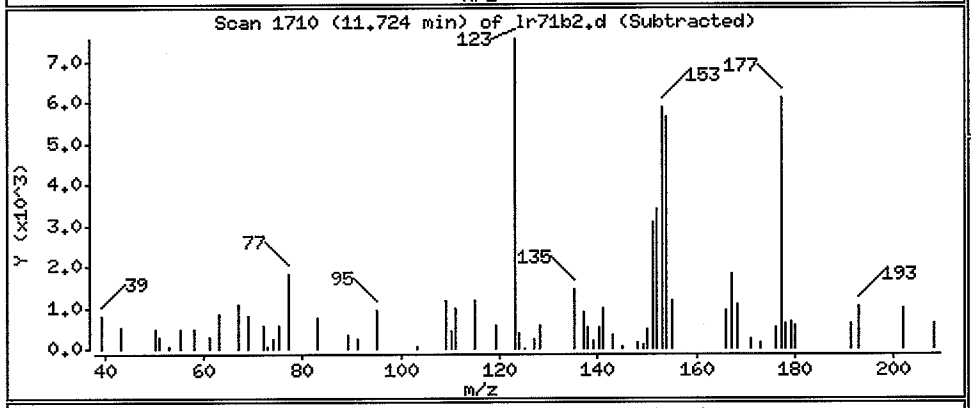
Column diameter: 0.32

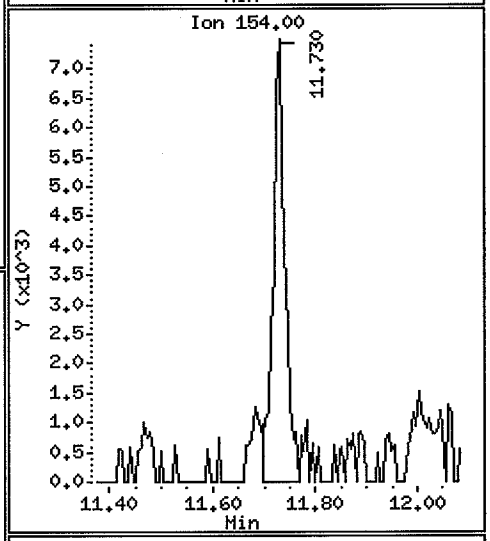
44 Acenaphthene

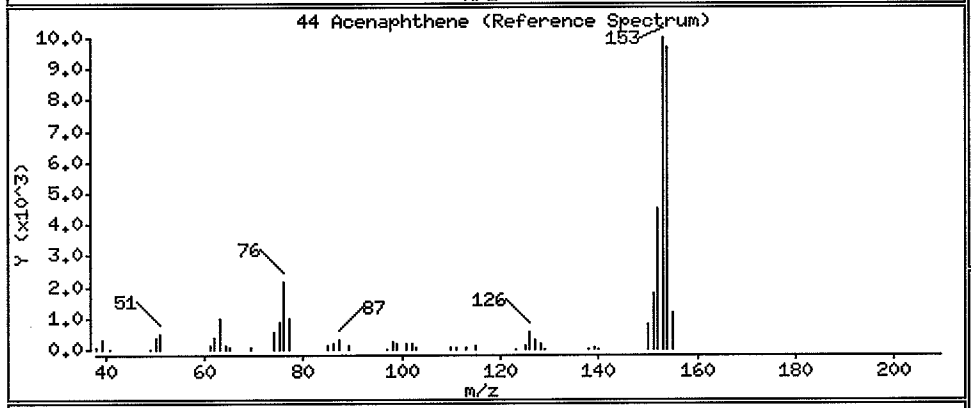
Concentration: 11.62 ug/Kg

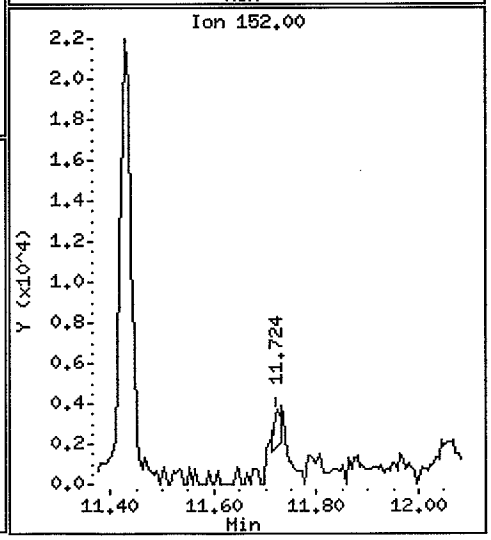


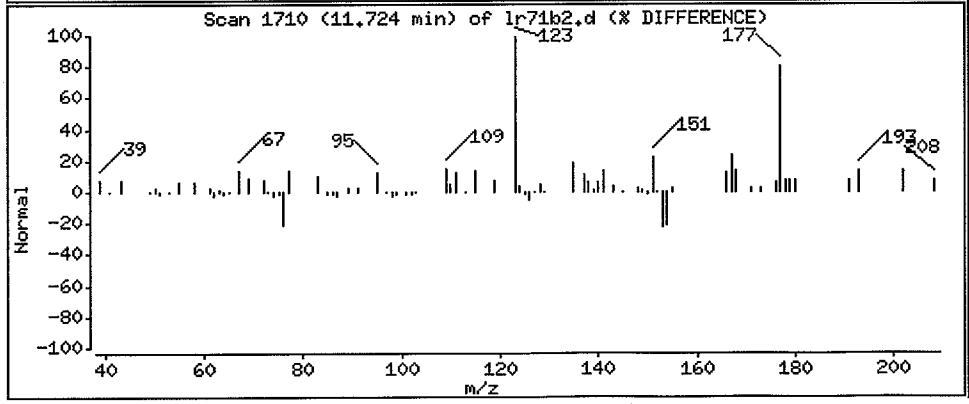












Data File: /chem3/nt4.i/20071101.b/lr71b2.d

Date : 01-NOV-2007 17:11

Client ID:

Instrument: nt4.i

Sample Info: LR71BRE

Volume Injected (uL): 1.0

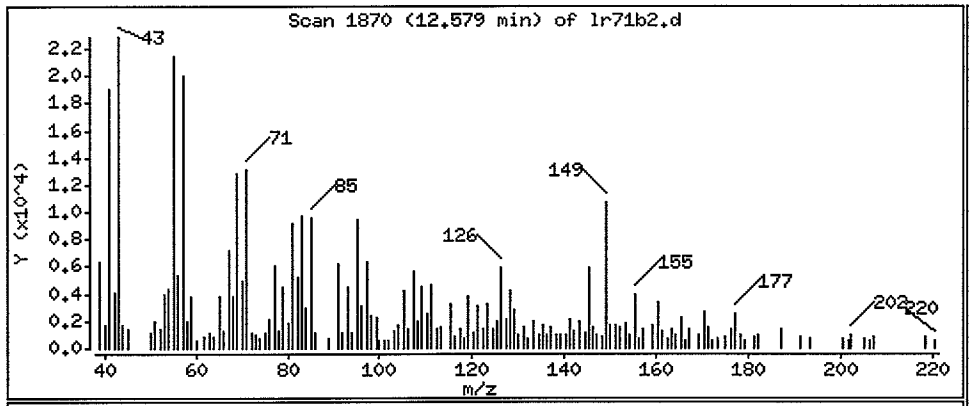
Operator: VTS

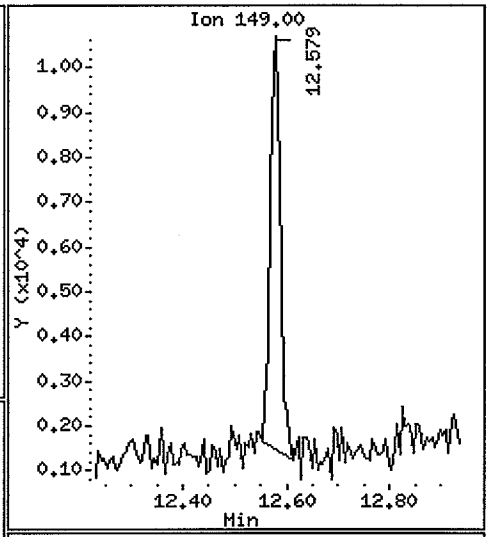
Column phase: ZB-5

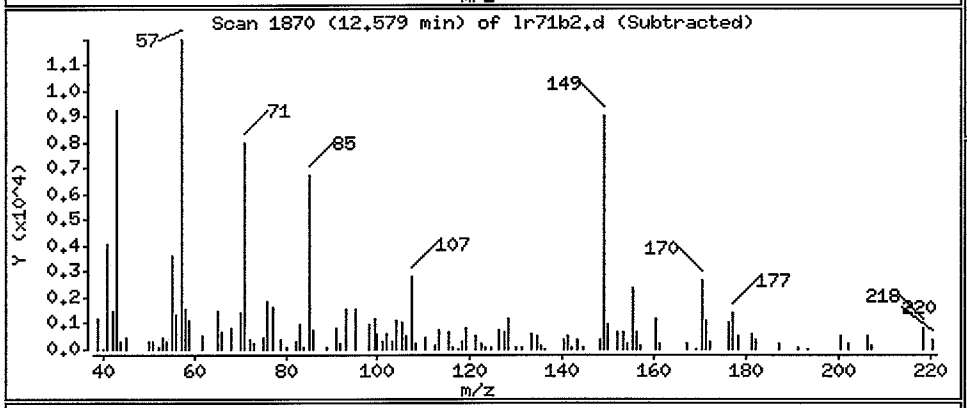
Column diameter: 0.32

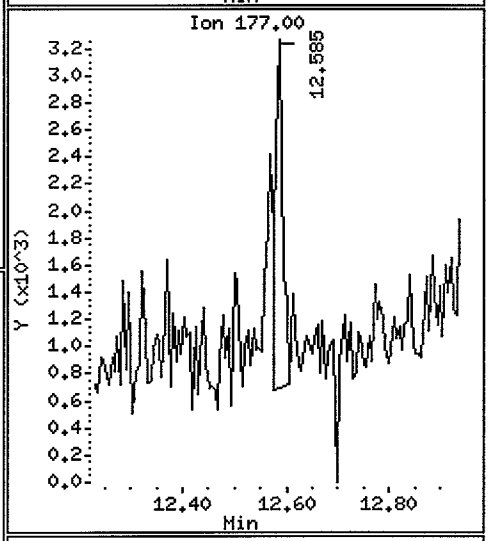
50 Diethylphthalate

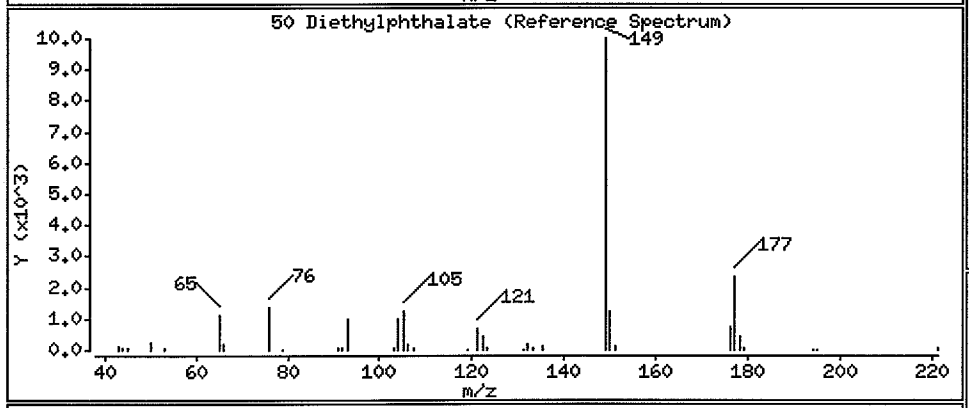
Concentration: 13.82 ug/Kg

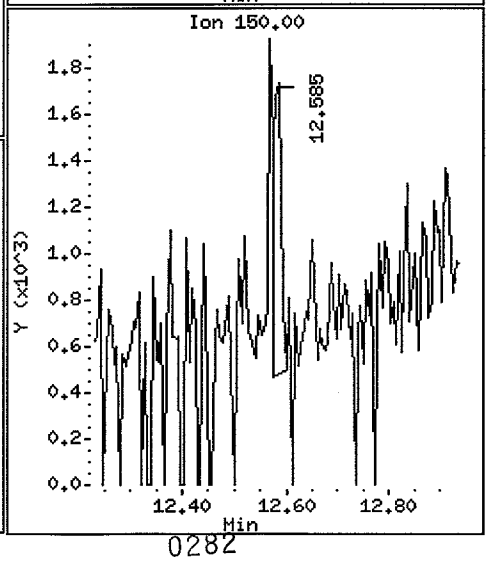


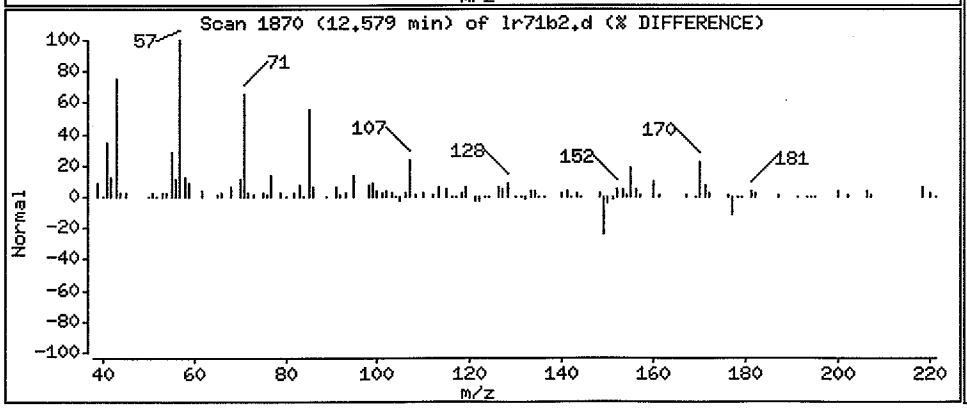












Data File: /chem3/nt4.i/20071101.b/lr71b2.d

Date : 01-NOV-2007 17:11

Client ID:

Instrument: nt4.i

Sample Info: LR71BRE

Volume Injected (uL): 1.0

Operator: VTS

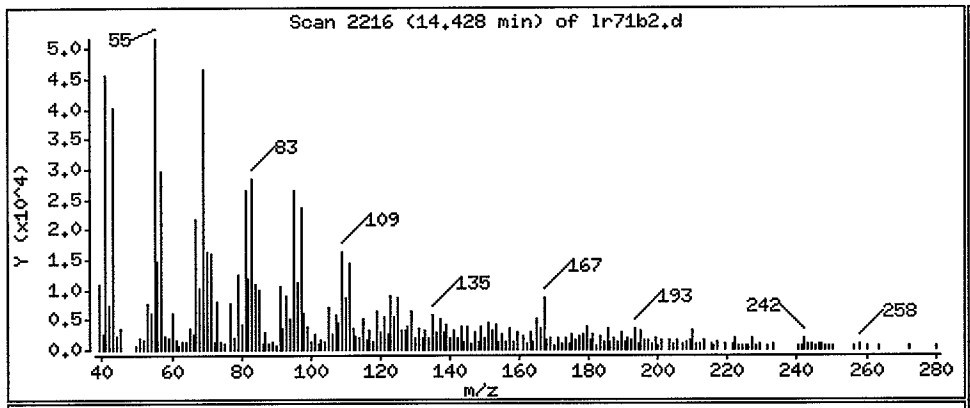
Column phase: ZB-5

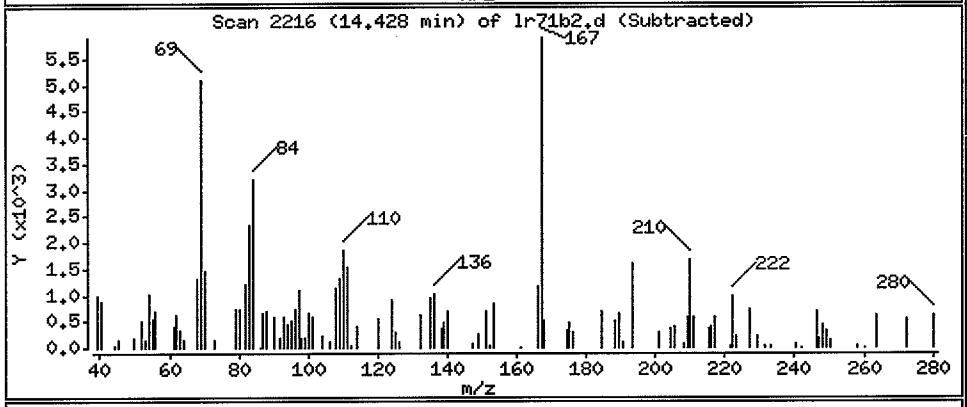
Column diameter: 0.32

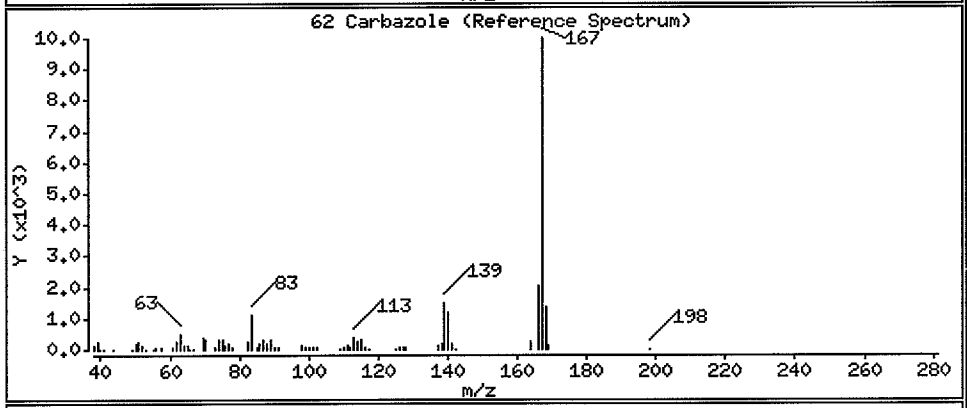
62 Carbazole

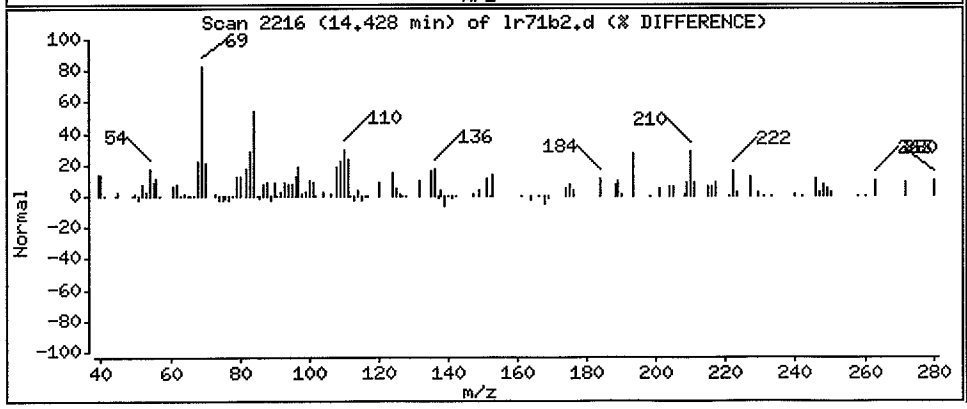
Concentration: 10.36 ug/Kg

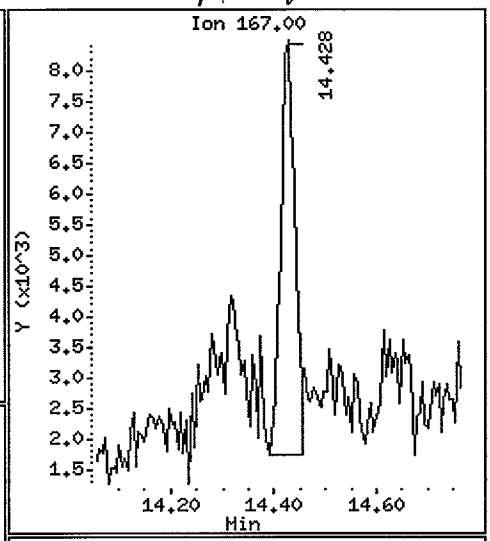
NR gd

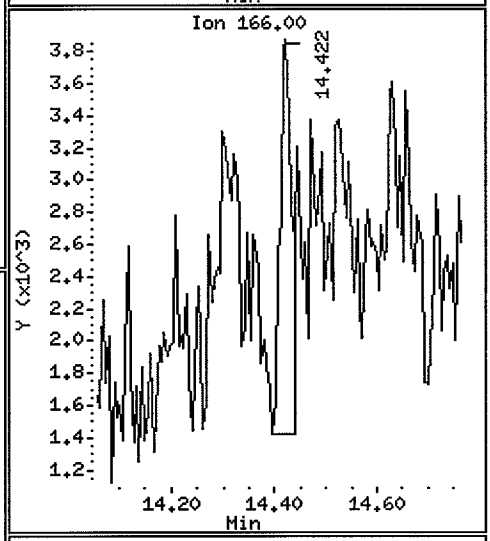


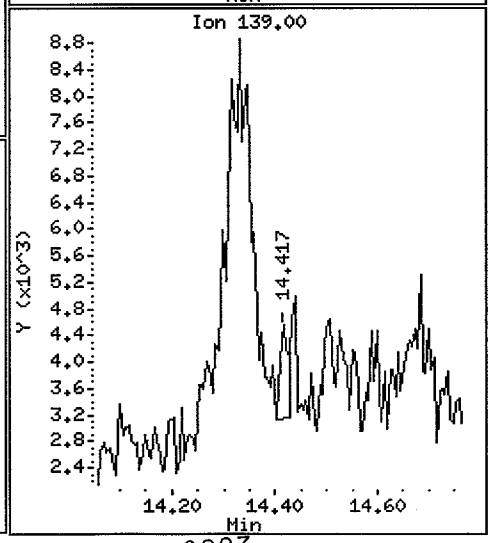












Data File: /chem3/nt4.i/20071101.b/lr71b2.d

Date : 01-NOV-2007 17:11

Client ID:

Instrument: nt4.i

Sample Info: LR71BRE

Volume Injected (uL): 1.0

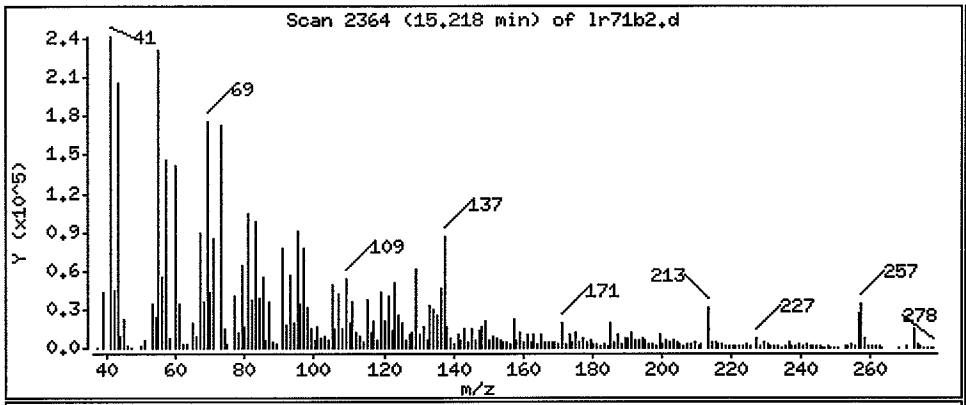
Operator: VTS

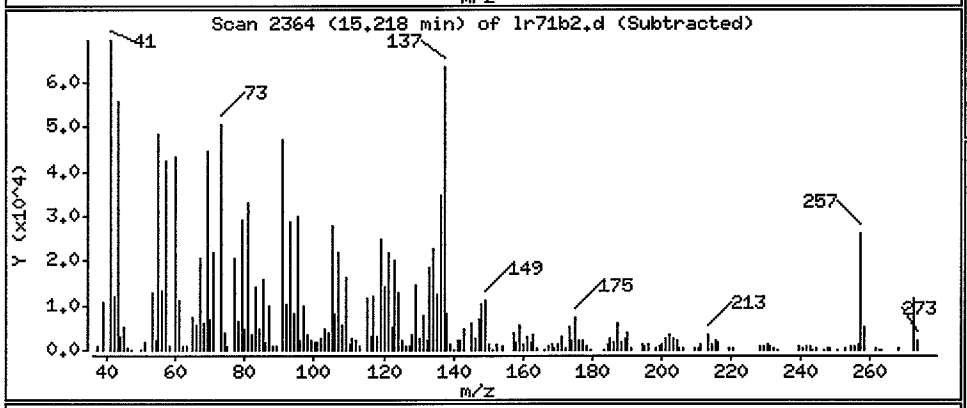
Column phase: ZB-5

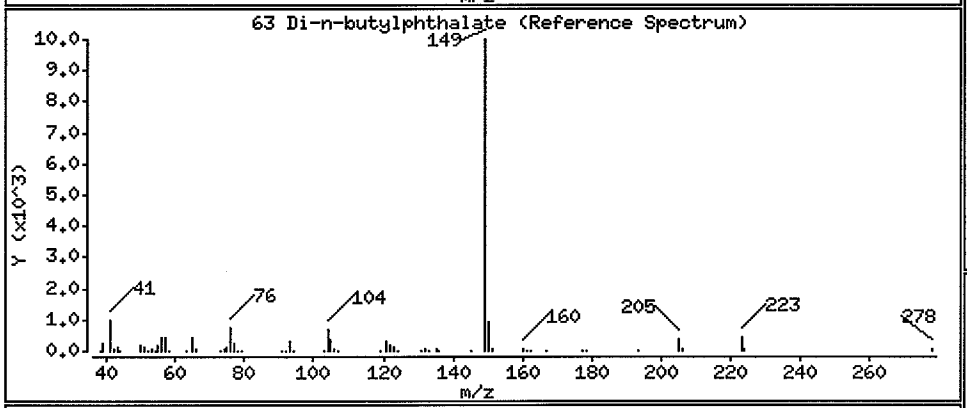
Column diameter: 0.32

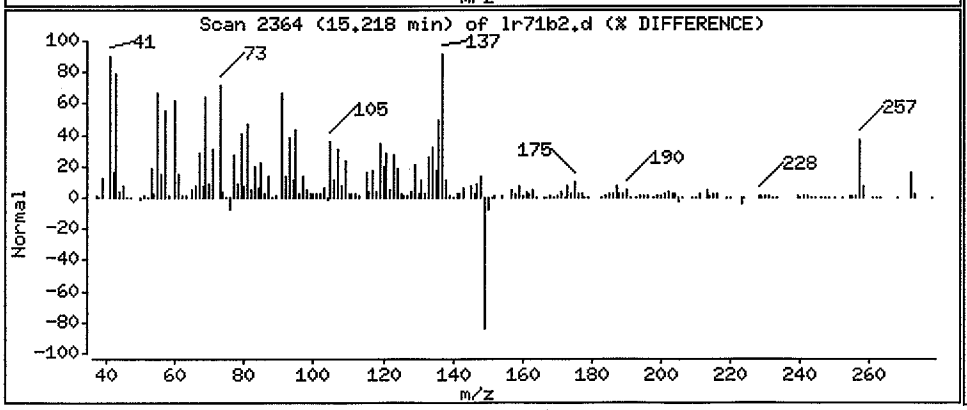
63 Di-n-butylphthalate

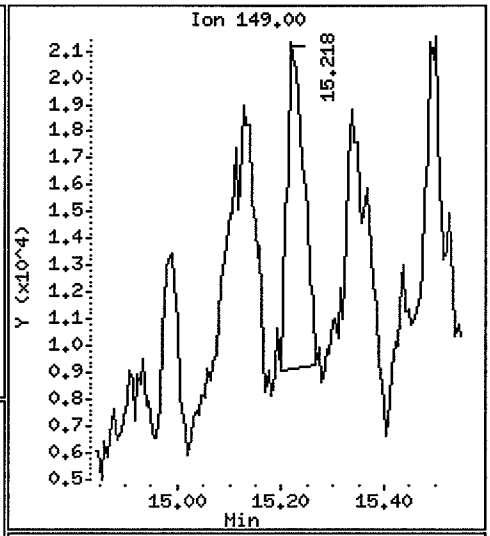
Concentration: 18.13 ug/Kg

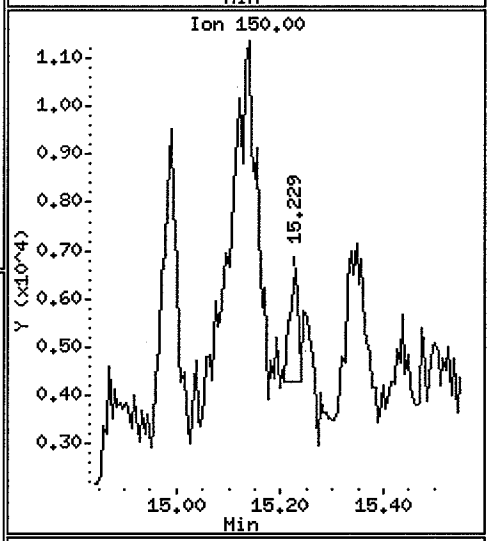


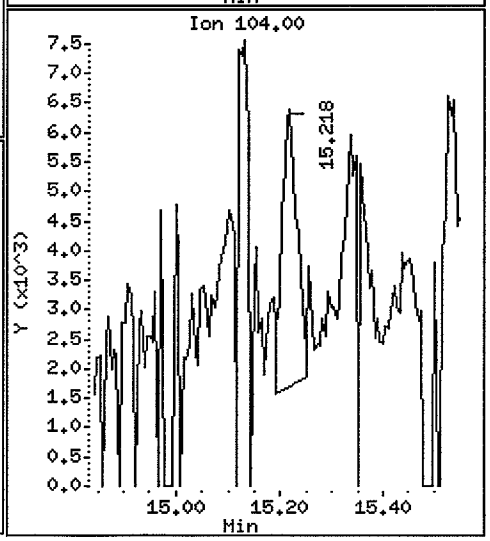












Data File: /chem3/nt4.i/20071101.b/lr71b2.d

Date : 01-NOV-2007 17:11

Client ID:

Instrument: nt4.i

Sample Info: LR71BRE

Volume Injected (uL): 1.0

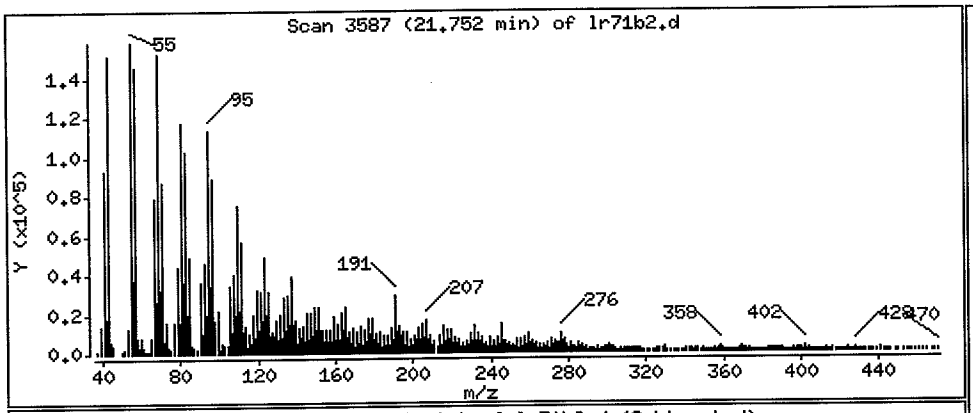
Operator: VTS

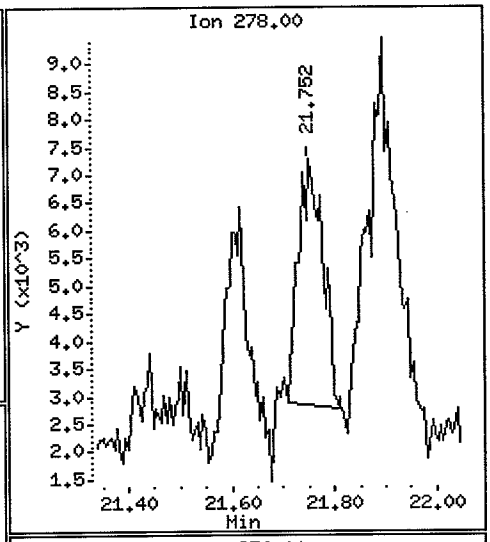
Column phase: ZB-5

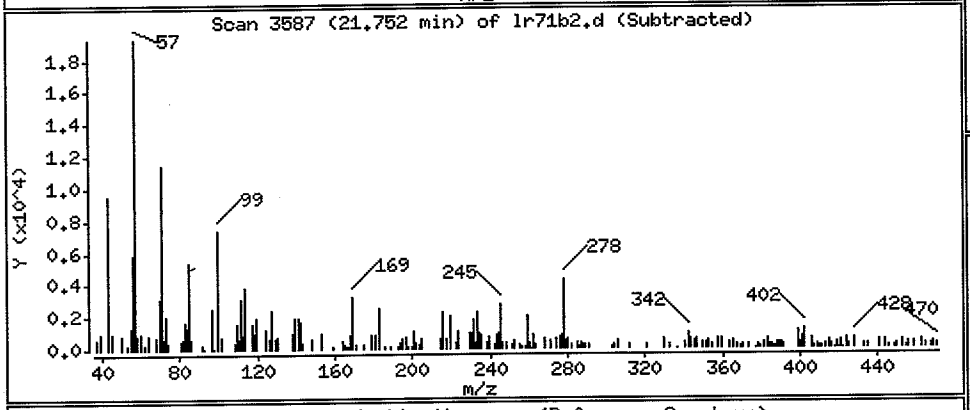
Column diameter: 0.32

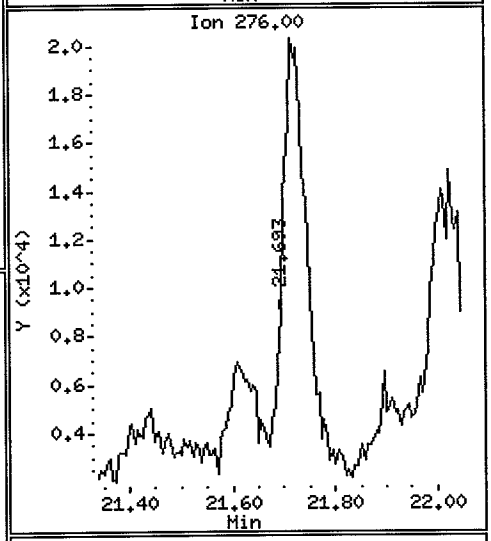
79 Dibenzo(a,h)anthracene

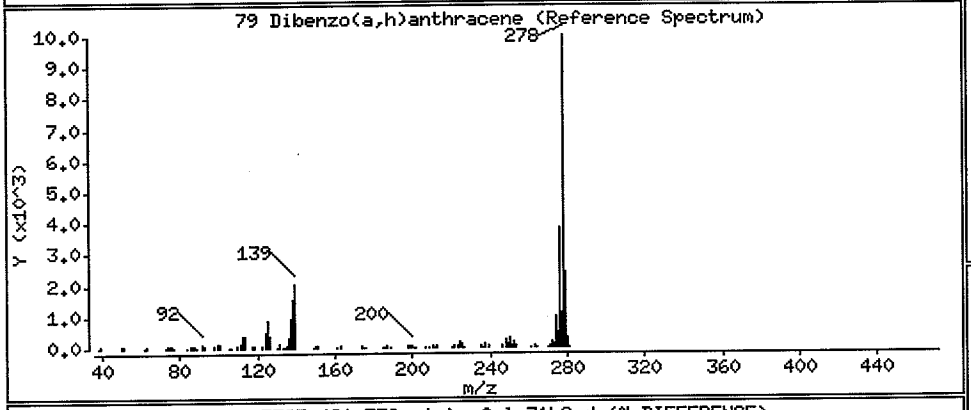
Concentration: 10.82 ug/Kg

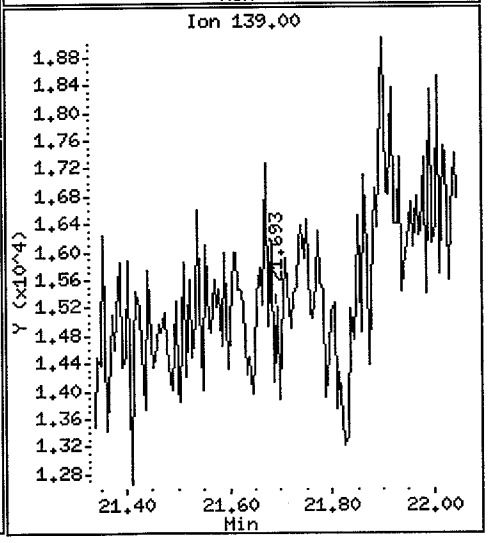


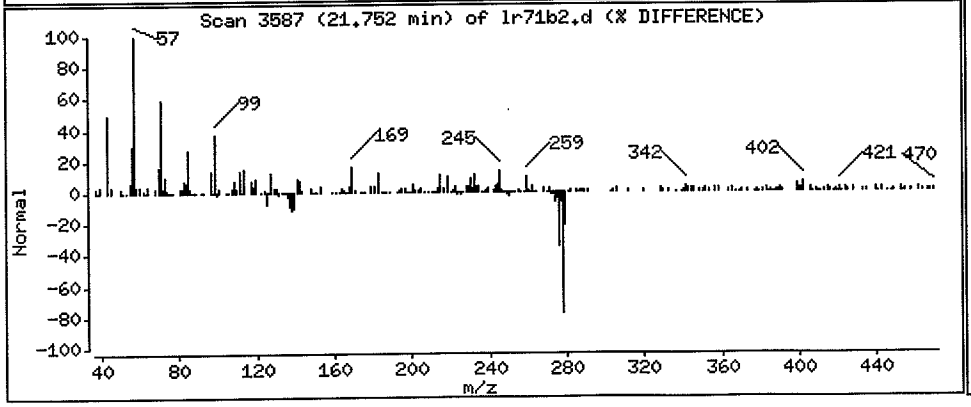












Data File: /chem3/nt4.i/20071101.b/lr71b2.d

Date : 01-NOV-2007 17:11

Client ID:

Instrument: nt4.i

Sample Info: LR71BRE

Volume Injected (uL): 1.0

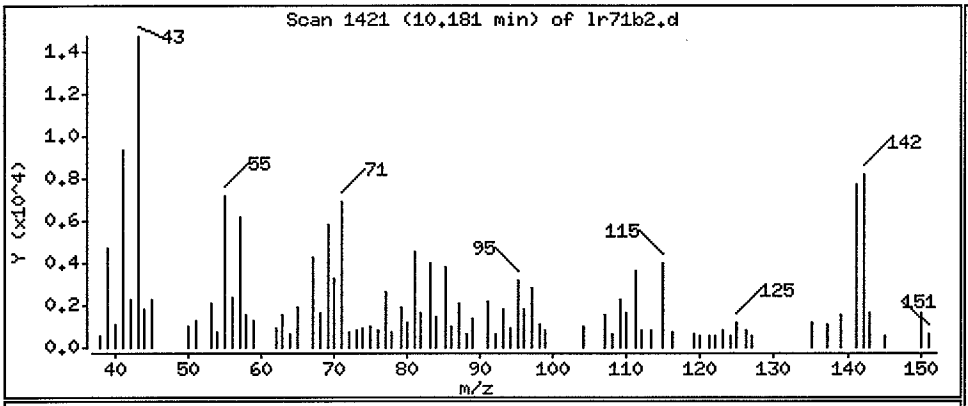
Operator: VTS

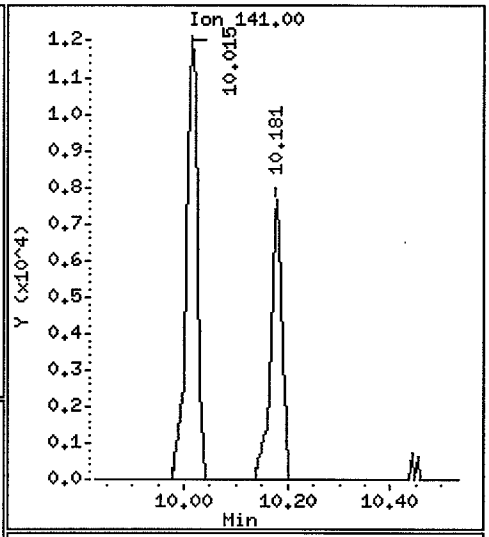
Column phase: ZB-5

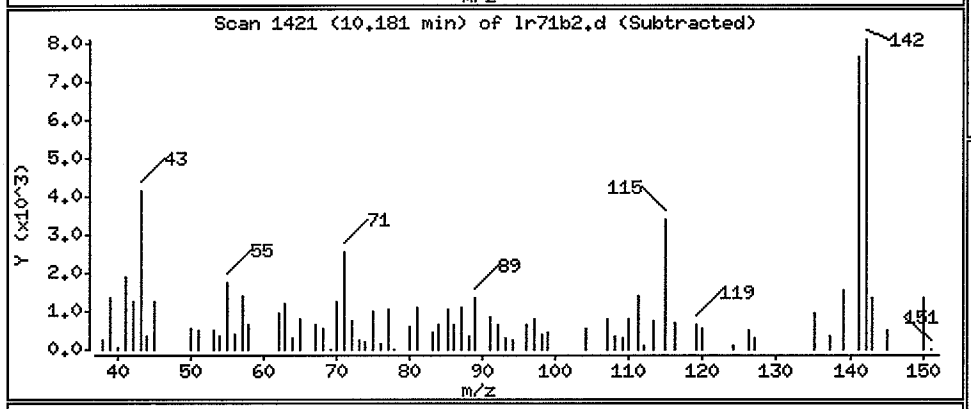
Column diameter: 0.32

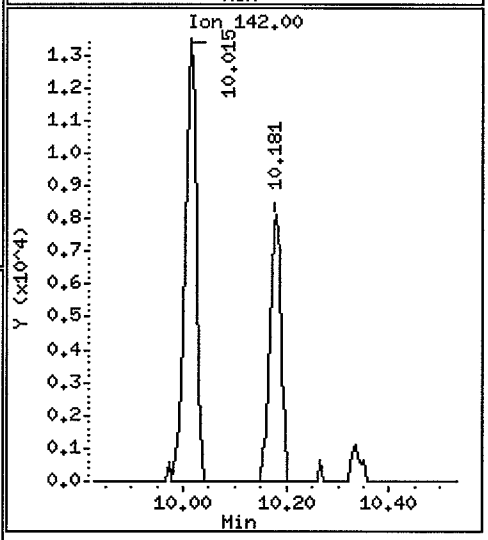
105 1-methylnaphthalene

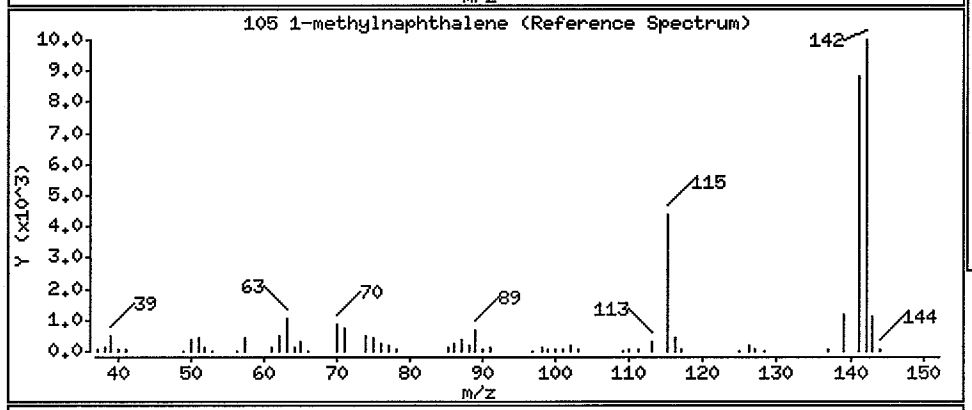
Concentration: 15.48 ug/Kg

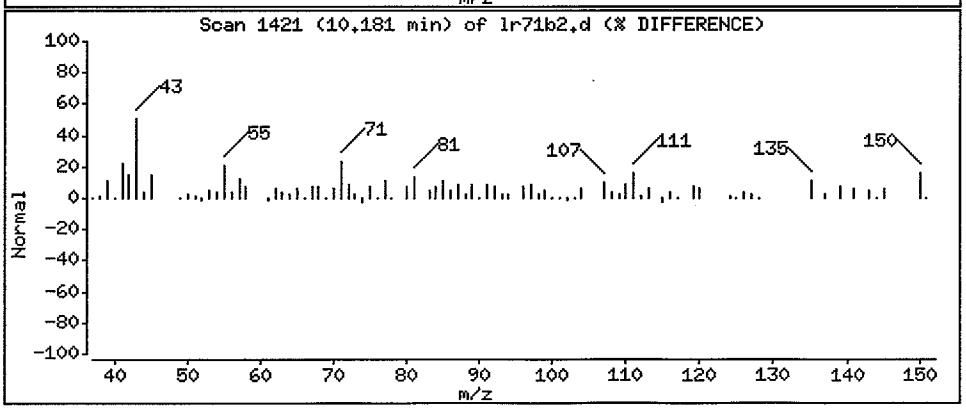












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: AN-SS-03-070928**
Page 1 of 2 **SAMPLE**

Lab Sample ID: LR71C
LIMS ID: 07-20768
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 15:47
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 33.2%

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**	**63**
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**	**22**
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	100	< 100 U
85-01-8	**Phenanthrene**	**20**	**85**
120-12-7	Anthracene	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
206-44-0	**Fluoranthene**	**20**	**210**
129-00-0	**Pyrene**	**20**	**190**
85-68-7	Butylbenzylphthalate	20	< 20 U
56-55-3	**Benzo(a)anthracene**	**20**	**83**
117-81-7	bis(2-Ethylhexyl)phthalate	20	< 20 U
218-01-9	**Chrysene**	**20**	**110**
117-84-0	Di-n-Octyl phthalate	20	< 20 U
205-99-2	**Benzo(b)fluoranthene**	**20**	**120**
207-08-9	**Benzo(k)fluoranthene**	**20**	**130**
50-32-8	**Benzo(a)pyrene**	**20**	**130**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**20**	**48**
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	**Benzo(g,h,i)perylene**	**20**	**37**

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS

Sample ID: AN-SS-03-070928
SAMPLE

Lab Sample ID: LR71C
LIMS ID: 07-20768
Matrix: Sediment
Date Analyzed: 10/18/07 15:47

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	48.8%	2-Fluorobiphenyl	50.8%
d14-p-Terphenyl	63.6%	d4-1,2-Dichlorobenzene	42.8%
d5-Phenol	52.0%	2-Fluorophenol	64.8%
2,4,6-Tribromophenol	65.9%	d4-2-Chlorophenol	52.0%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20071018.b/lr71c.d
Lab Smp Id: LR71C Client Smp ID: AN-SS-03-070928
Inj Date : 18-OCT-2007 15:47
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : LR71C
Misc Info : 07-20768
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: 10
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	75.00000	Weight of sample extracted (g)
M	33.20000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	1 2-Fluorophenol	112	5.987	5.917	(0.756)	362329	24.2551	484.1
$	2 Phenol-d5	99	7.504	7.488	(0.948)	371838	19.4856	388.9
	3 Phenol	94	7.520	7.504	(0.950)	14391	0.60851 LDL	12.15
$	5 2-Chlorophenol-d4	132	7.617	7.600	(0.962)	247885	19.5037	389.3
	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	7.916	7.904	(1.000)	202713	20.0000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	8.215	8.204	(1.038)	101634	10.5637	212.8
	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	8.685	8.674	(1.097)	44949	3.15752	63.02
$	18 Nitrobenzene-d5	82	8.851	8.845	(0.888)	246256	12.1596	242.7
	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	9.972	9.961	(1.000)	630327	20.0000	
	28 Naphthalene	128	10.004	9.999	(1.003)	42393	1.09109	21.78
	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	11.783	11.777	(0.917)	368550	12.6783	253.1
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	12.595	12.584	(0.980)	35452	0.92602 LDL	18.48
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	12.852	12.841	(1.000)	373356	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	14.150	14.139	(1.101)	89365	24.6705	492.4
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	15.240	15.223	(1.000)	659639	20.0000	
	60 Phenanthrene	178	15.272	15.261	(1.002)	180763	4.27105	85.25
	61 Anthracene	178	15.341	15.335	(1.007)	34576	0.81590 LDL	16.29
	62 Carbazole	167	15.635	15.624	(1.026)	34641	0.91896 ↓	18.34 (M)
	63 Di-n-butylphthalate	149	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
64 Fluoranthene	202	17.222	17.205	(1.130)	508045	10.4969	209.5
65 Pyrene	202	17.580	17.563	(0.898)	527529	9.70601	193.7
$ 66 Terphenyl-d14	244	17.905	17.884	(0.915)	540569	15.8900	317.2
67 Butylbenzylphthalate	149	Compound Not Detected.					
68 Benzo(a)anthracene	228	19.551	19.529	(0.999)	247542	4.17491	83.33
* 69 Chrysene-d12	240	19.578	19.556	(1.000)	756753	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	19.615	19.598	(1.002)	296455	5.56375	111.1
72 bis(2-Ethylhexyl)phthalate	149	19.802	19.785	(0.955)	30724	0.93838 LOL	18.73(M)
* 134 Di-n-octylphthalate-d4	153	20.737	20.720	(1.000)	1082814	20.0000	
73 Di-n-octylphthalate	149	Compound Not Detected.					
74 Benzo(b)fluoranthene	252	21.212	21.190	(0.975)	291857	5.98964	119.6
75 Benzo(k)fluoranthene	252	21.239	21.228	(0.977)	327269	6.34915	126.7(M)
76 Benzo(a)pyrene	252	21.661	21.639	(0.996)	291845	6.52452	130.2
* 77 Perylene-d12	264	21.746	21.719	(1.000)	678558	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	23.232	23.215	(1.068)	128555	2.42334	48.37(M)
79 Dibenzo(a,h)anthracene	278	23.248	23.236	(1.069)	23807	0.53415 LOL	10.66(M)
80 Benzo(g,h,i)perylene	276	23.638	23.616	(1.087)	98203	1.85119	36.95
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: lr71c.d
Lab Smp Id: LR71C
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20071018.b/SW846.m
Misc Info: 07-20768

Calibration Date: 18-OCT-2007
Calibration Time: 10:07
Client Smp ID: AN-SS-03-070928
Level: LOW
Sample Type: Sediment

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	212076	106038	424152	202713	-4.41
27 Naphthalene-d8	656578	328289	1313156	630327	-4.00
42 Acenaphthene-d10	353705	176852	707410	373356	5.56
59 Phenanthrene-d10	526440	263220	1052880	659639	25.30
69 Chrysene-d12	581923	290962	1163846	756753	30.04
134 Di-n-octylphthala	979097	489548	1958194	1082814	10.59
77 Perylene-d12	686531	343266	1373062	678558	-1.16

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.90	7.40	8.40	7.92	0.14
27 Naphthalene-d8	9.96	9.46	10.46	9.97	0.11
42 Acenaphthene-d10	12.84	12.34	13.34	12.85	0.09
59 Phenanthrene-d10	15.22	14.72	15.72	15.24	0.11
69 Chrysene-d12	19.56	19.06	20.06	19.58	0.11
134 Di-n-octylphthala	20.72	20.22	21.22	20.74	0.08
77 Perylene-d12	21.72	21.22	22.22	21.75	0.13

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

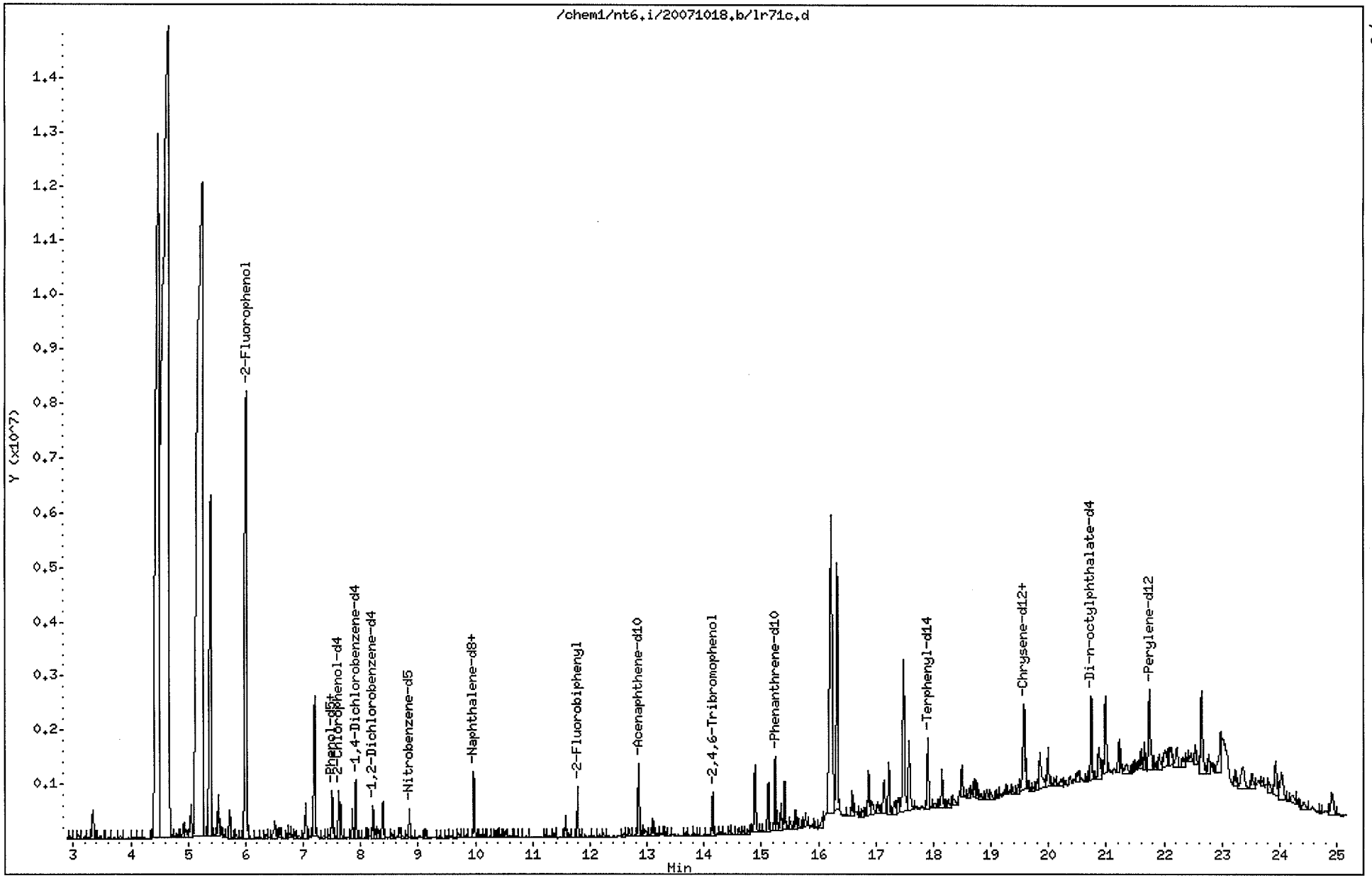
Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: LR71C
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20071018.b/SW846.m
Misc Info: 07-20768

Client SDG: LR71
Fraction: SV
Client Smp ID: AN-SS-03-070928
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	748.5	484.1	64.68	11-84
$ 2 Phenol-d5	748.5	388.9	51.96	25-86
$ 5 2-Chlorophenol-d4	748.5	389.3	52.01	23-91
$ 10 1,2-Dichlorobenzen	499.0	212.8	42.65	24-90
$ 18 Nitrobenzene-d5	499.0	242.7	48.64	26-88
$ 36 2-Fluorobiphenyl	499.0	253.1	50.71	34-91
$ 55 2,4,6-Tribromophen	748.5	492.4	65.79	25-107
$ 66 Terphenyl-d14	499.0	317.2	63.56	22-100

Data File: /chem1/nt6.i/20071018.b/lr71c.d
Date : 18-OCT-2007 15:47
Client ID: AN-SS-03-070928
Sample Info: LR71C
Volume Injected (uL): 1.0
Column phase: ZB-5

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



0294

Data File: /chem1/nt6.i/20071018.b/lr71c.d

Date : 18-OCT-2007 15:47

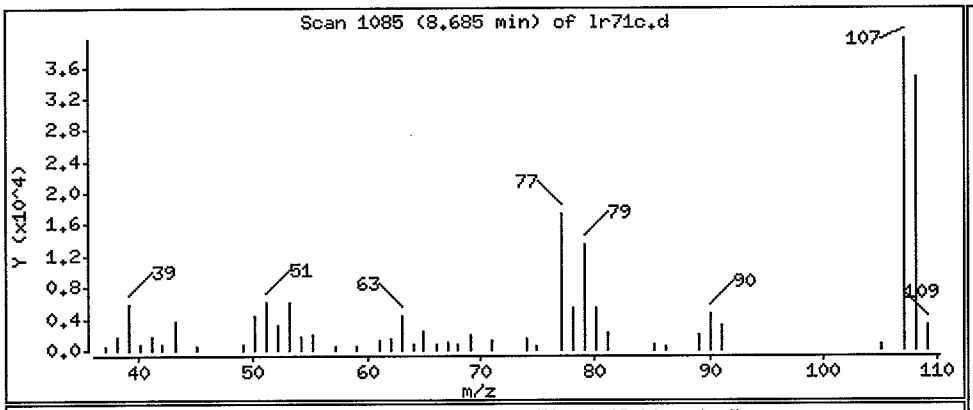
Client ID: AN-SS-03-070928 Instrument: nt6.i

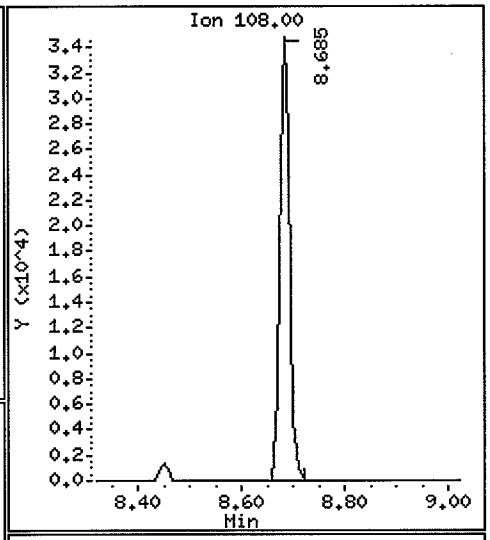
Sample Info: LR71C

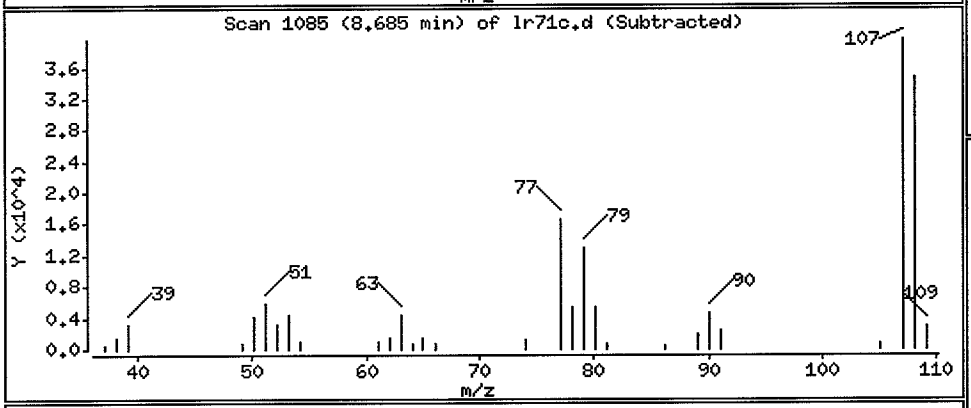
Volume Injected (uL): 1.0 Operator: LJR/VTS

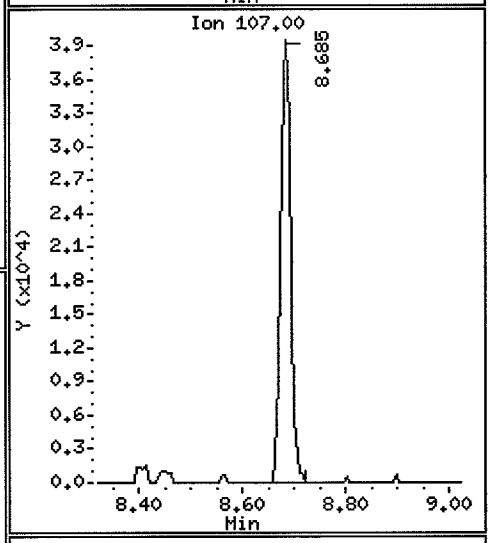
Column phase: ZB-5 Column diameter: 0.32

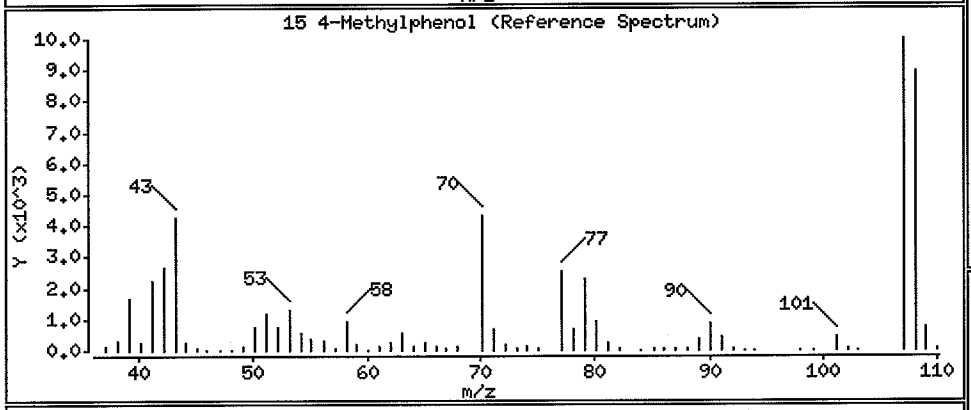
15 4-Methylphenol Concentration: 63.02 ug/kg

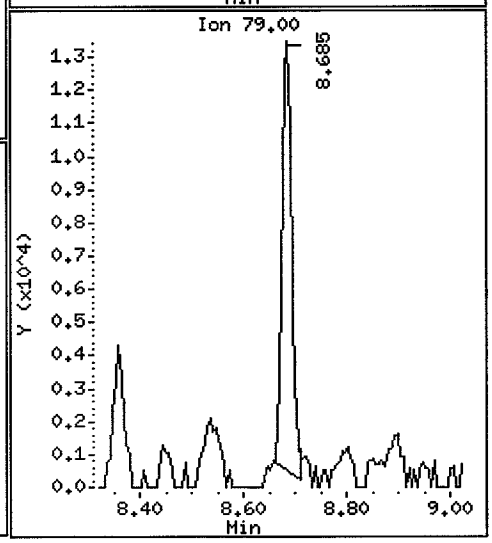


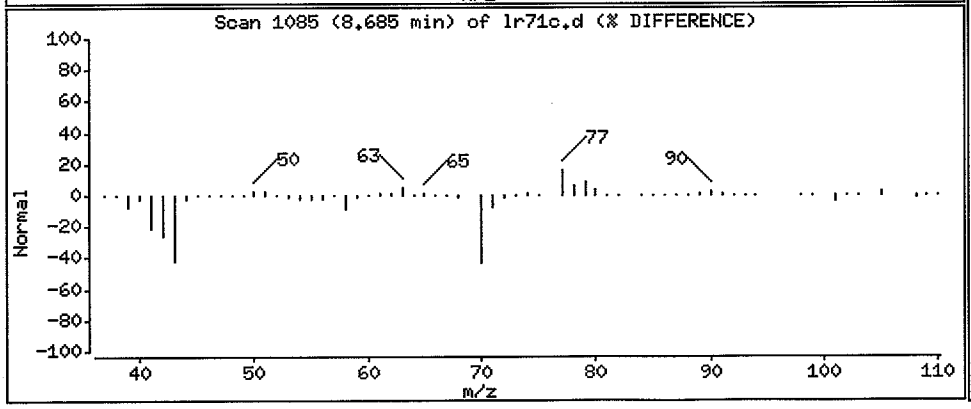












Data File: /chem1/nt6.i/20071018.b/lr71c.d

Date : 18-OCT-2007 15:47

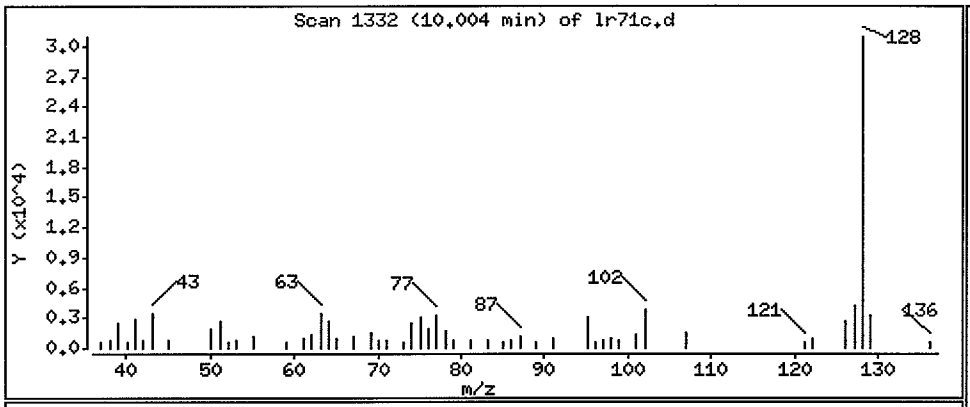
Client ID: AN-SS-03-070928 Instrument: nt6.i

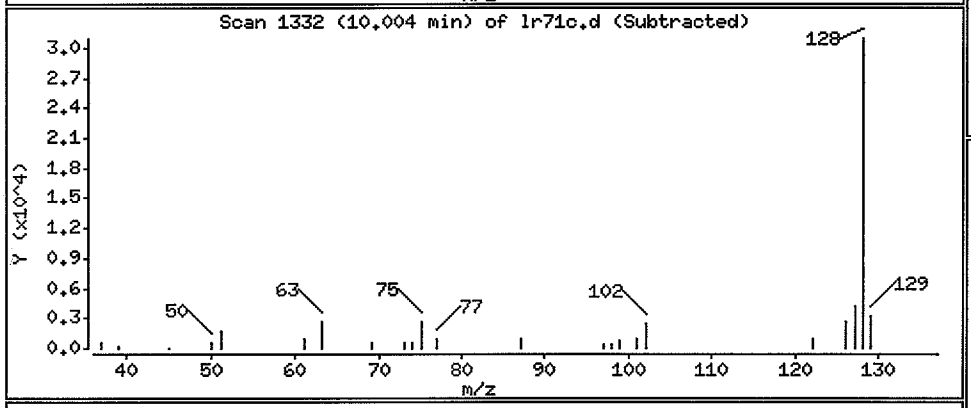
Sample Info: LR71C

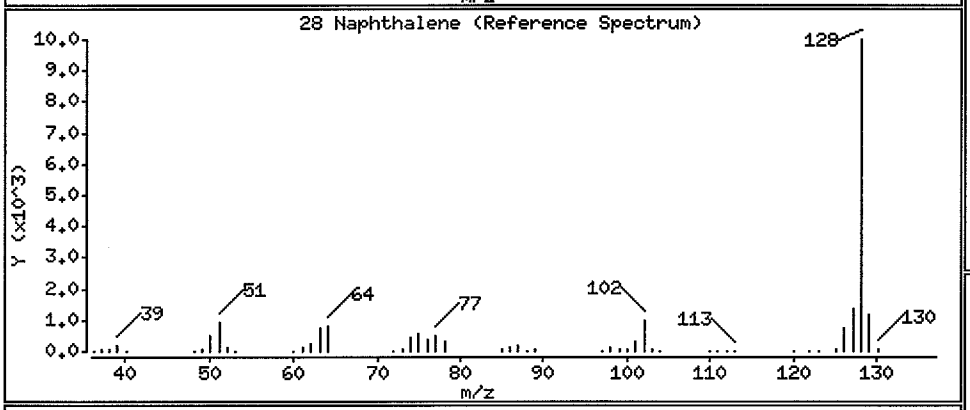
Volume Injected (uL): 1.0 Operator: LJR/VTS

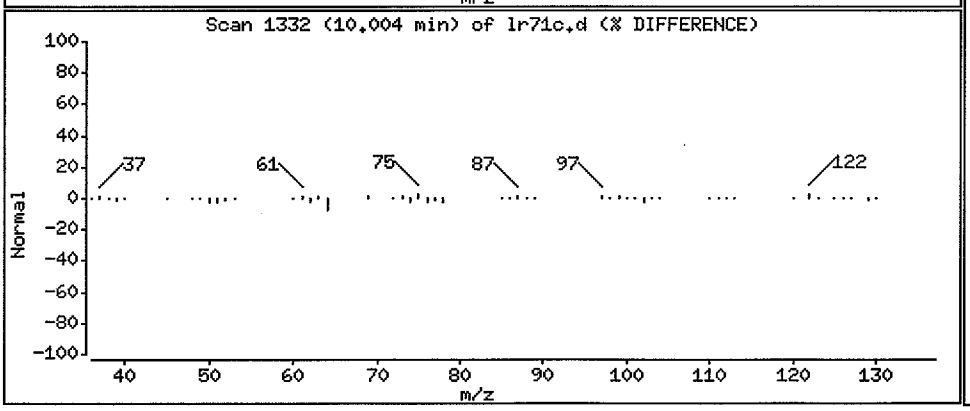
Column phase: ZB-5 Column diameter: 0.32

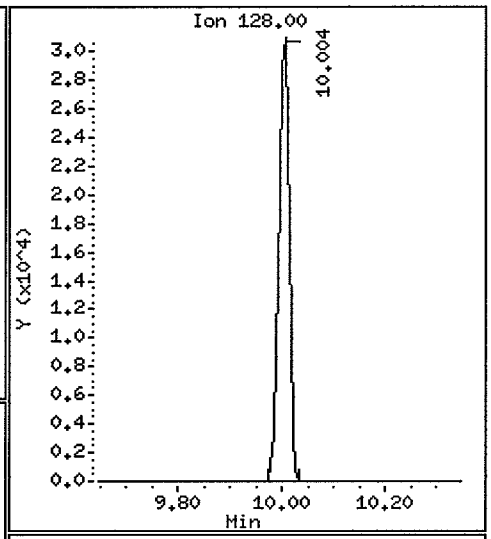
28 Naphthalene Concentration: 21.78 ug/kg

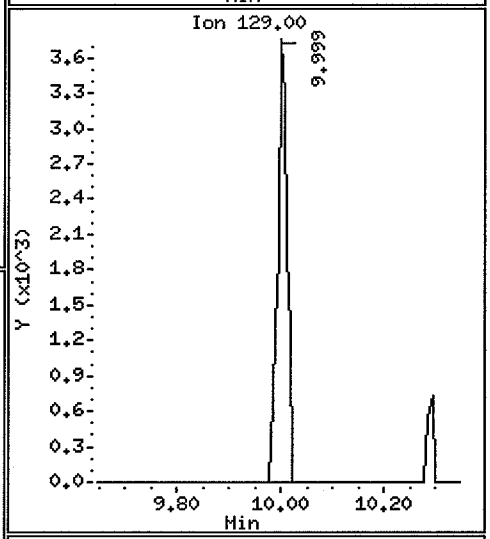


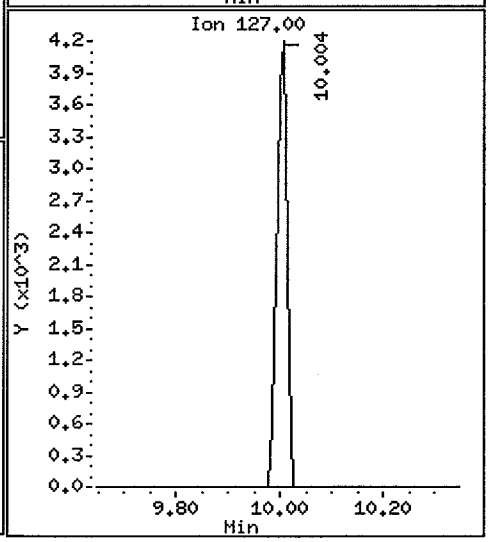












Data File: /chem1/nt6.i/20071018.b/lr71c.d

Date : 18-OCT-2007 15:47

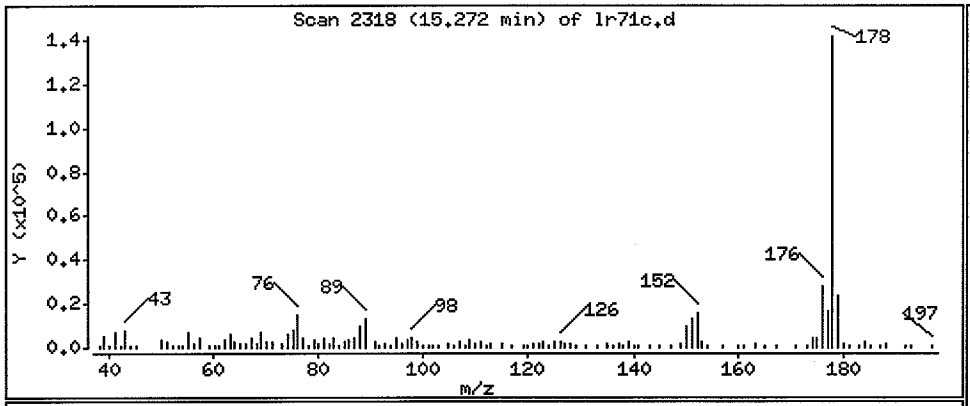
Client ID: AN-SS-03-070928 Instrument: nt6.i

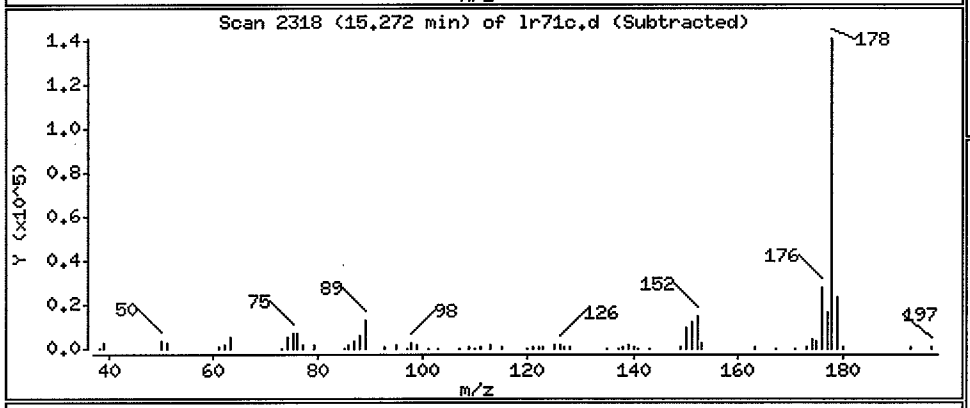
Sample Info: LR71C

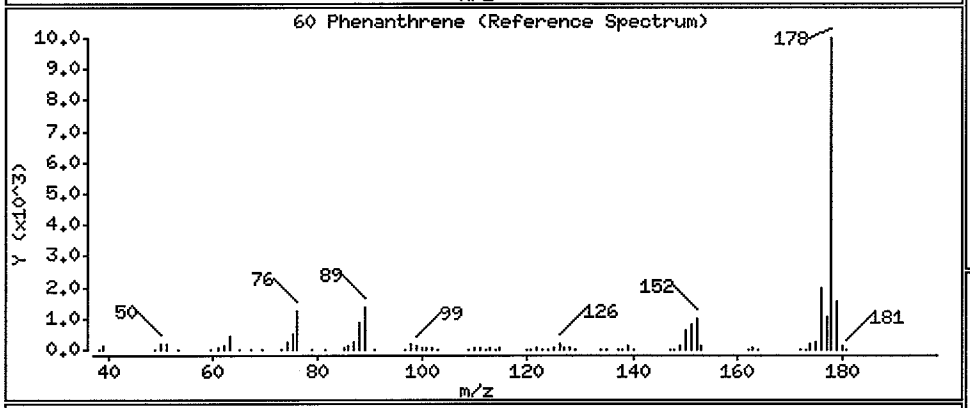
Volume Injected (uL): 1.0 Operator: LJR/VTS

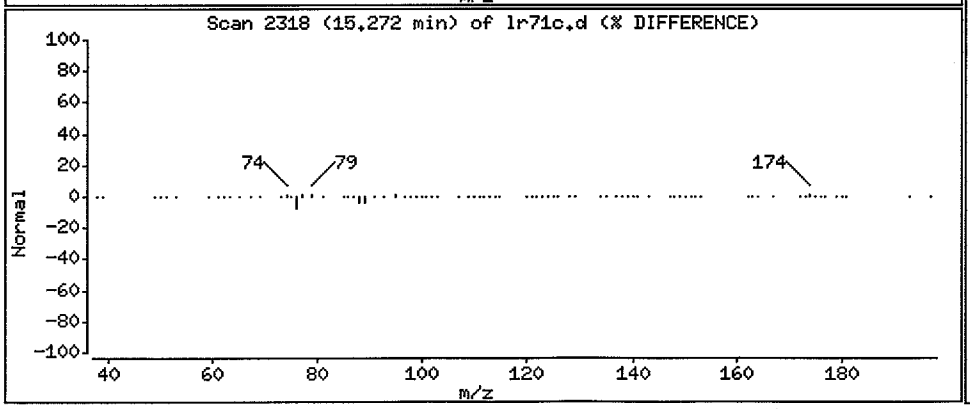
Column phase: ZB-5 Column diameter: 0.32

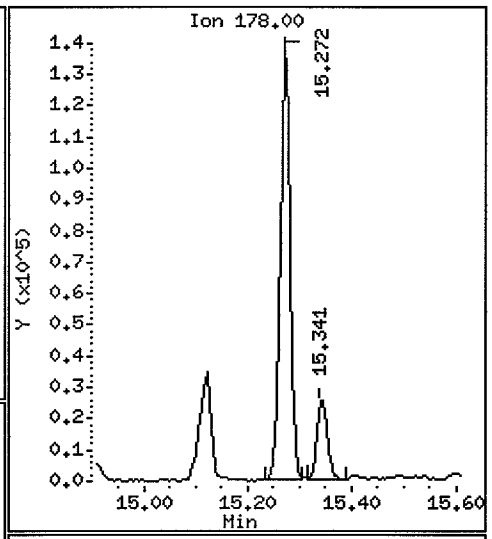
60 Phenanthrene Concentration: 85.25 ug/kg

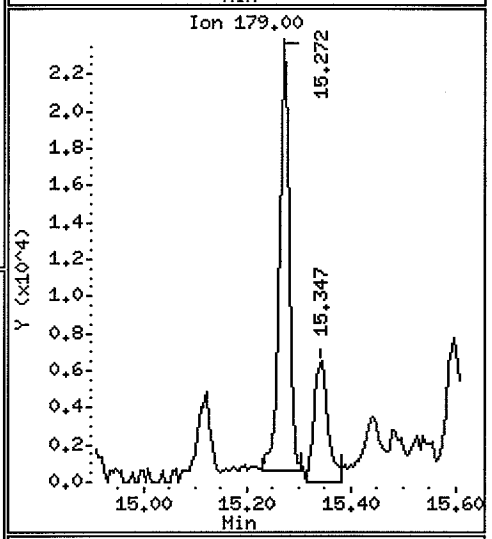


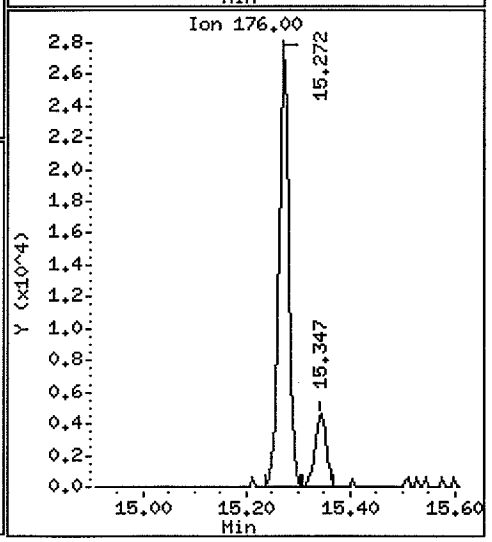












Data File: /chem1/nt6.i/20071018.b/lr71c.d

Date : 18-OCT-2007 15:47

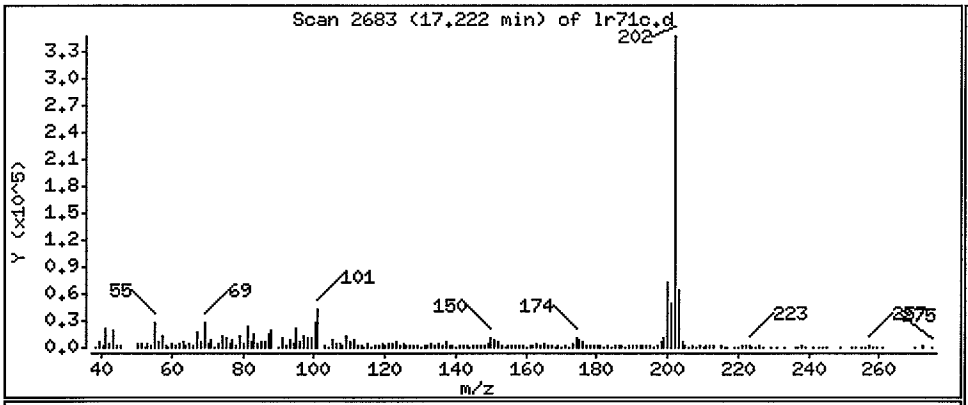
Client ID: AN-SS-03-070928 Instrument: nt6.i

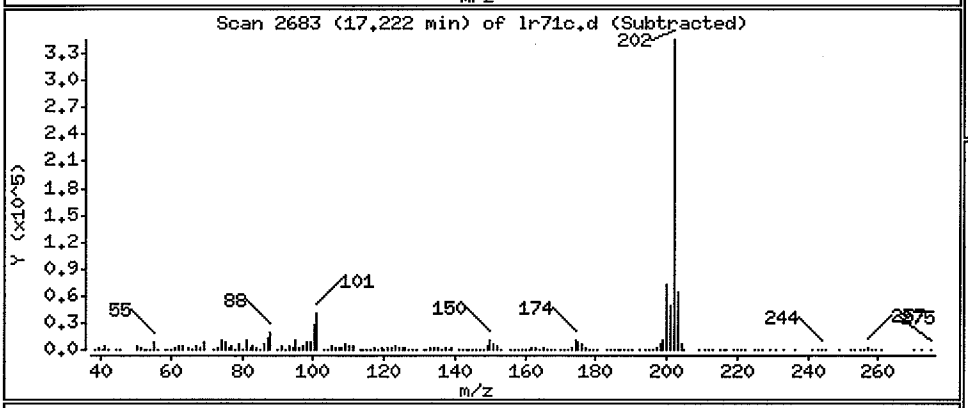
Sample Info: LR71C

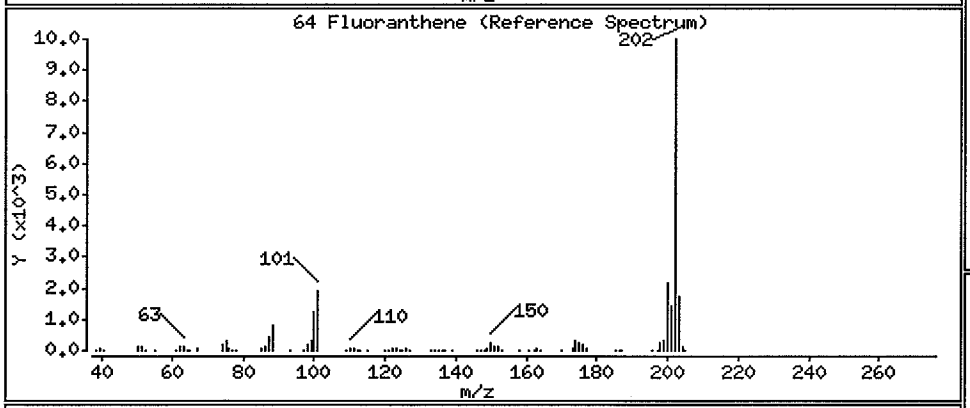
Volume Injected (uL): 1.0 Operator: LJR/VTS

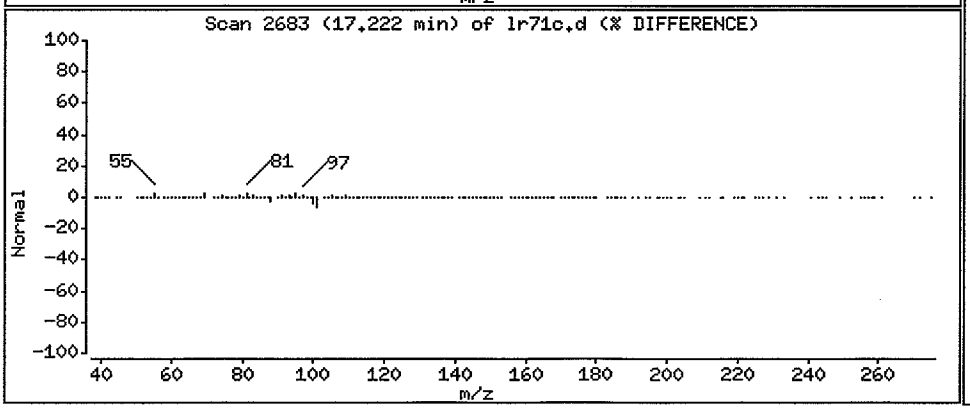
Column phase: ZB-5 Column diameter: 0.32

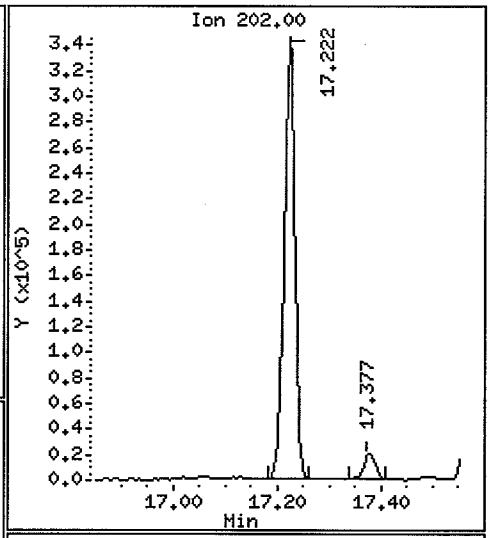
64 Fluoranthene Concentration: 209.5 ug/kg

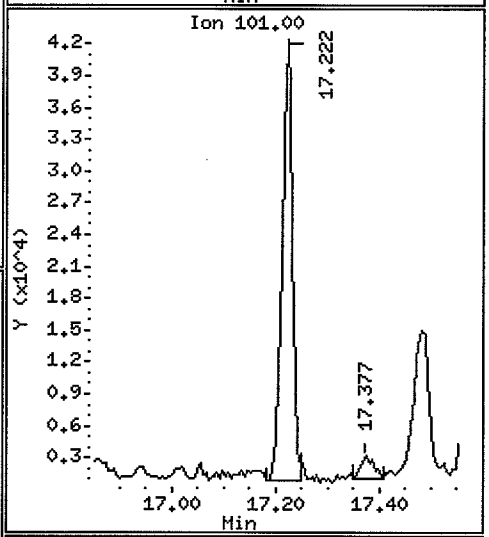


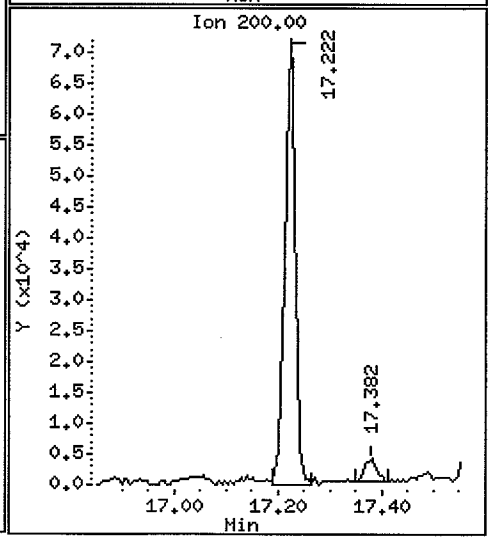












Data File: /chem1/nt6.i/20071018.b/lr71c.d

Date : 18-OCT-2007 15:47

Client ID: AN-SS-03-070928

Instrument: nt6.i

Sample Info: LR71C

Volume Injected (uL): 1.0

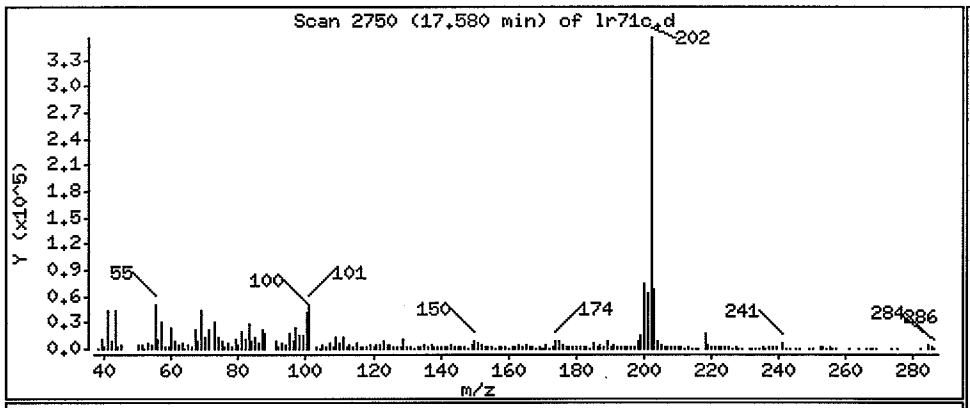
Operator: LJR/VTS

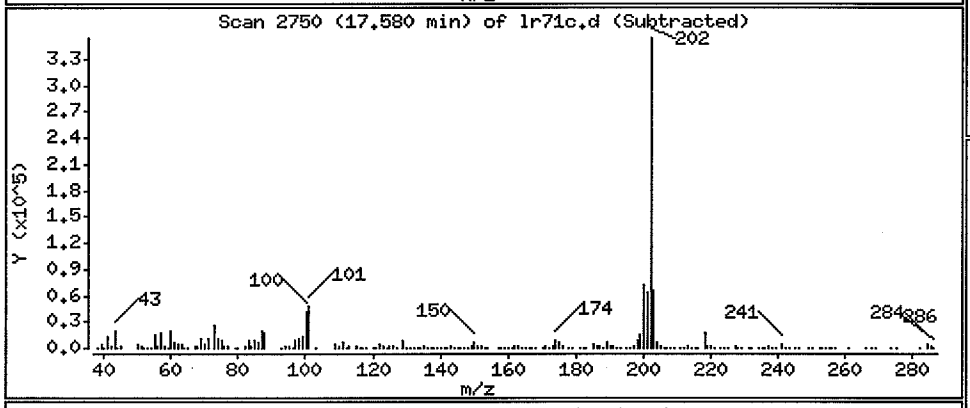
Column phase: ZB-5

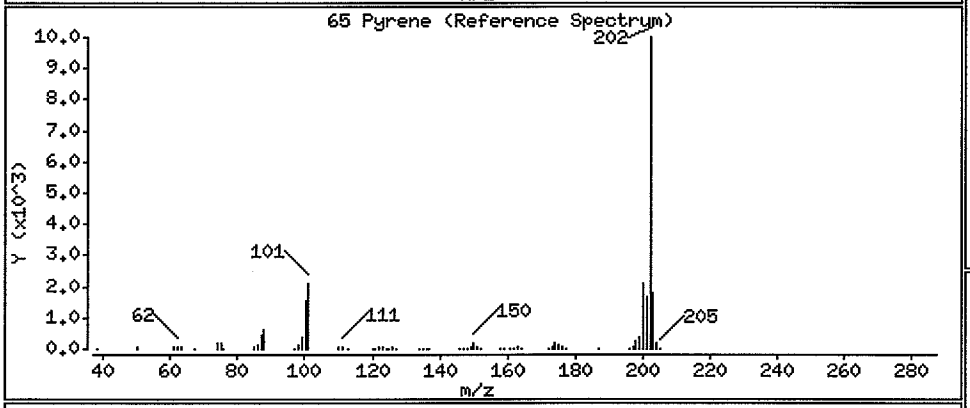
Column diameter: 0.32

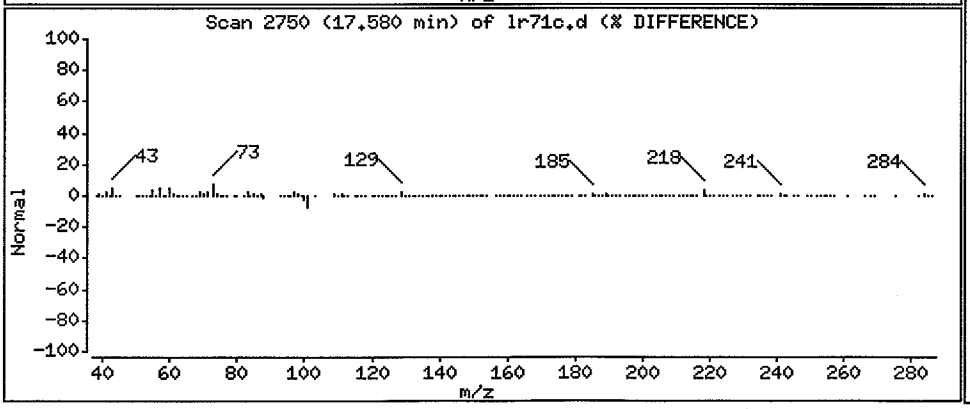
65 Pyrene

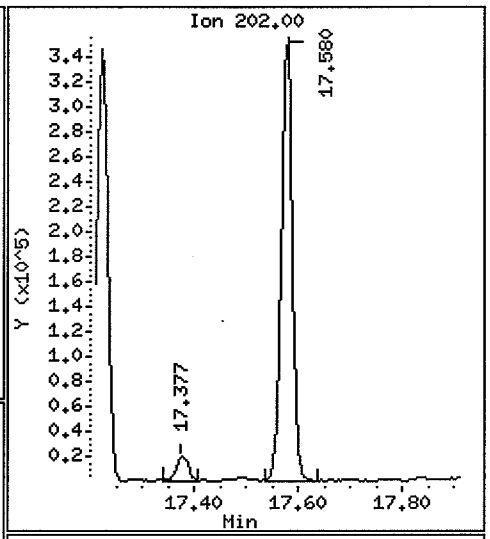
Concentration: 193.7 ug/kg

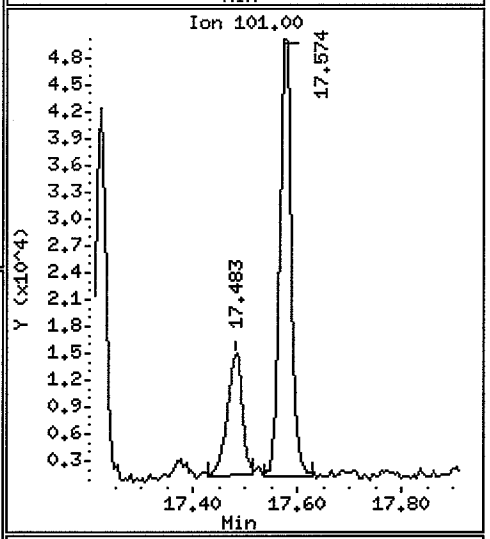


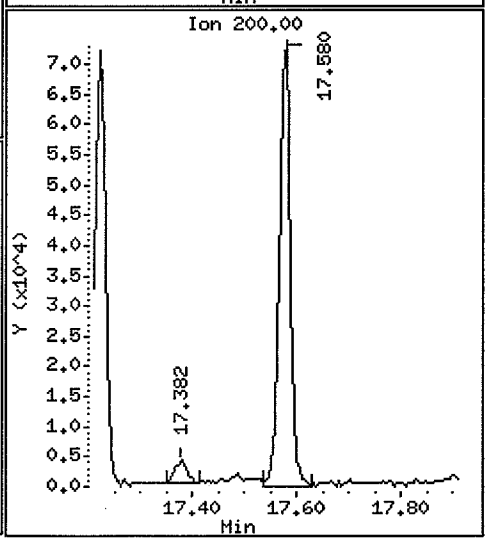












Data File: /chem1/nt6.i/20071018.b/lr71c.d

Date : 18-OCT-2007 15:47

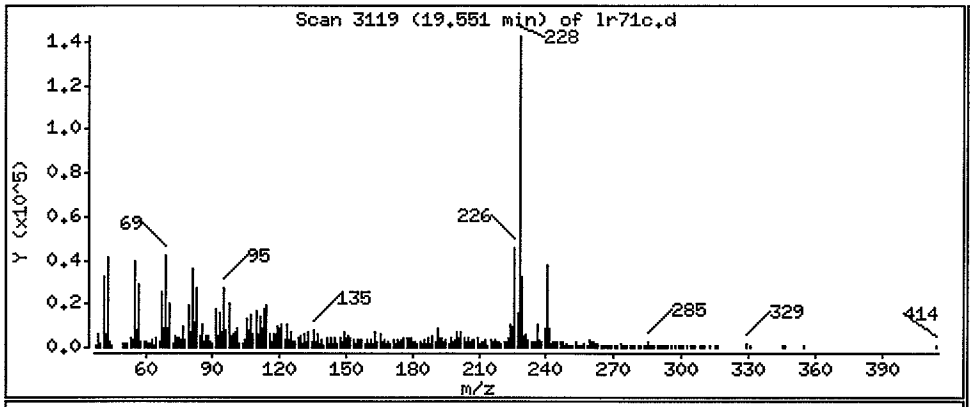
Client ID: AN-SS-03-070928 Instrument: nt6.i

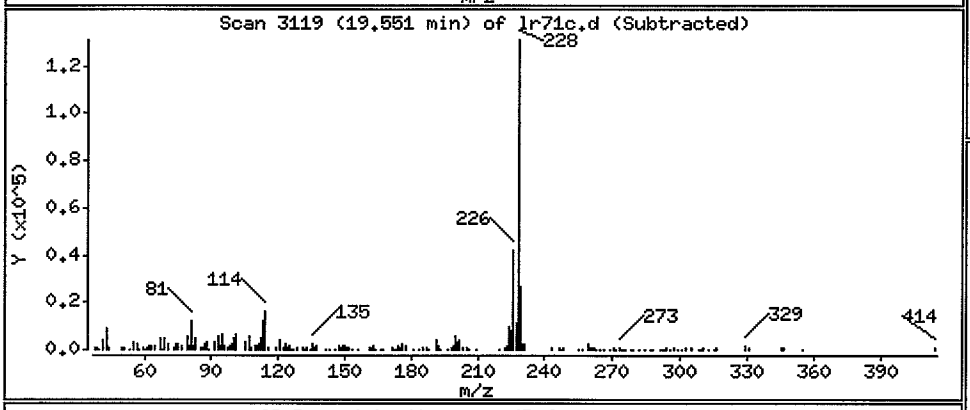
Sample Info: LR71C

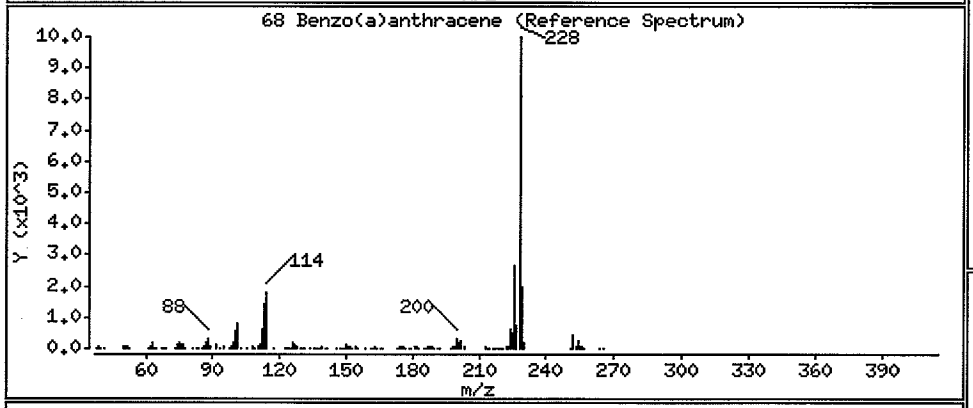
Volume Injected (uL): 1.0 Operator: LJR/VTS

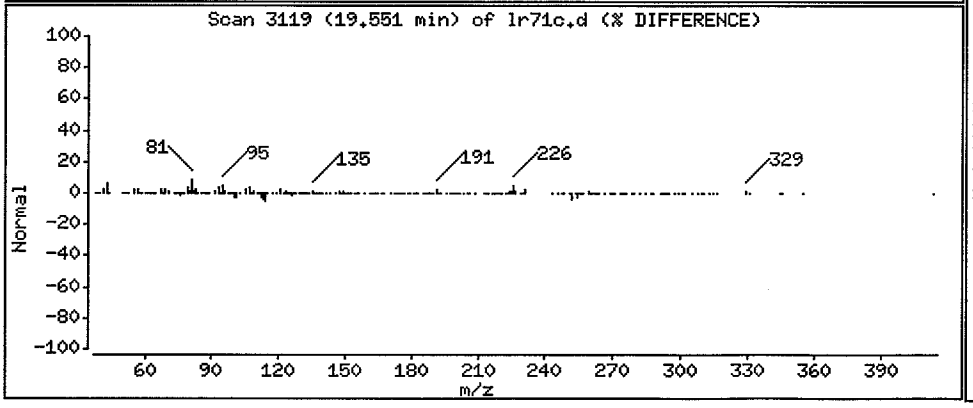
Column phase: ZB-5 Column diameter: 0.32

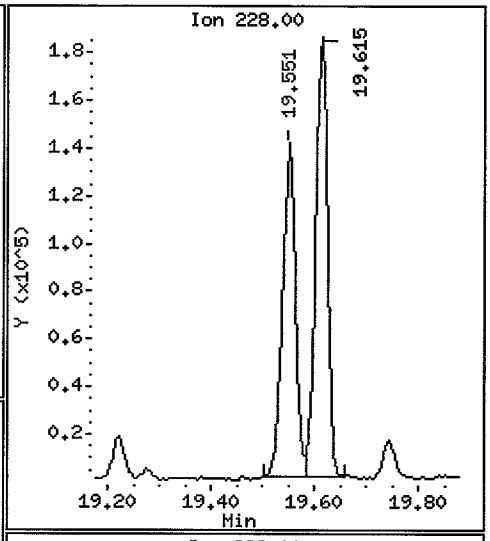
68 Benzo(a)anthracene Concentration: 83.33 ug/kg

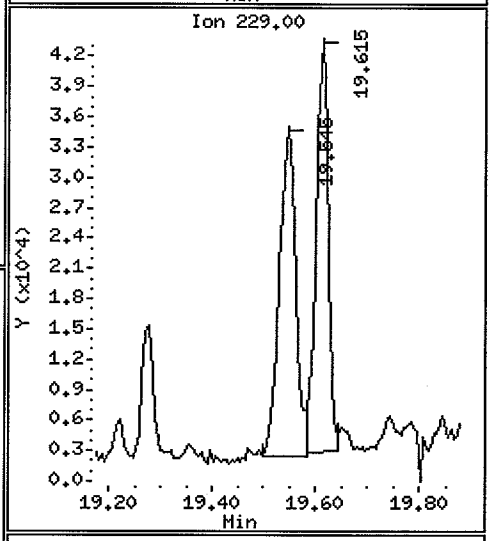


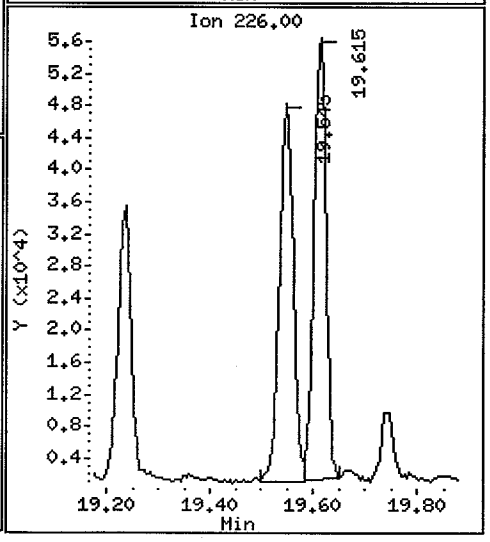












Data File: /chem1/nt6.i/20071018.b/lr71c.d

Date : 18-OCT-2007 15:47

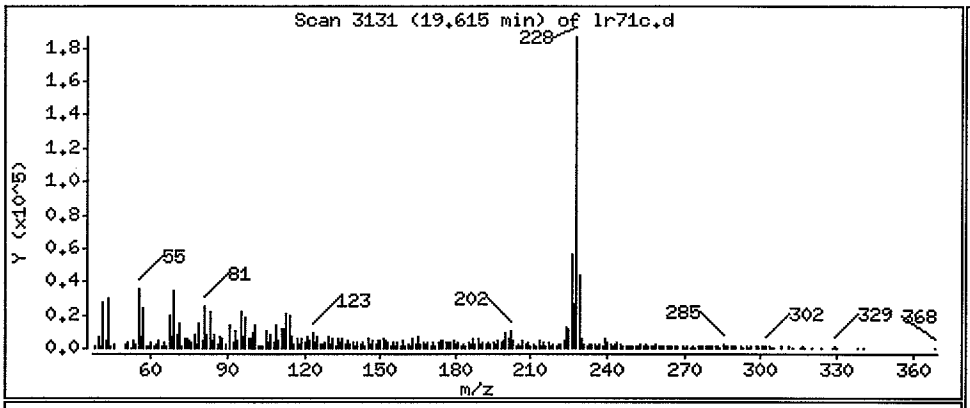
Client ID: AN-SS-03-070928 Instrument: nt6.i

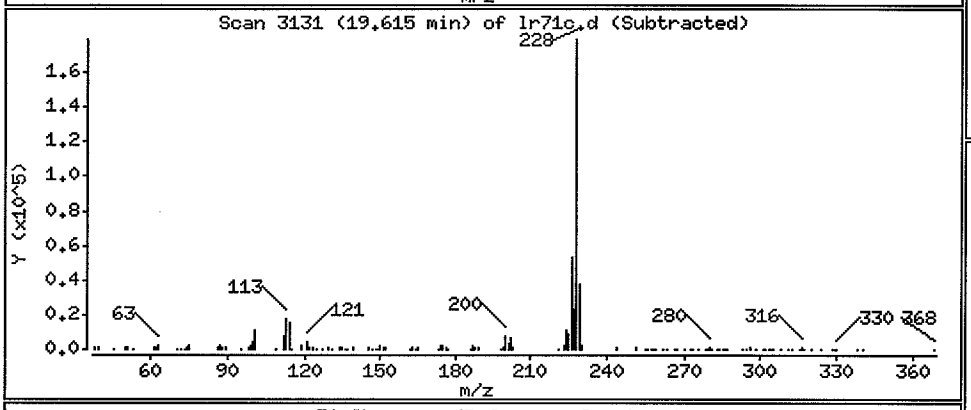
Sample Info: LR71C

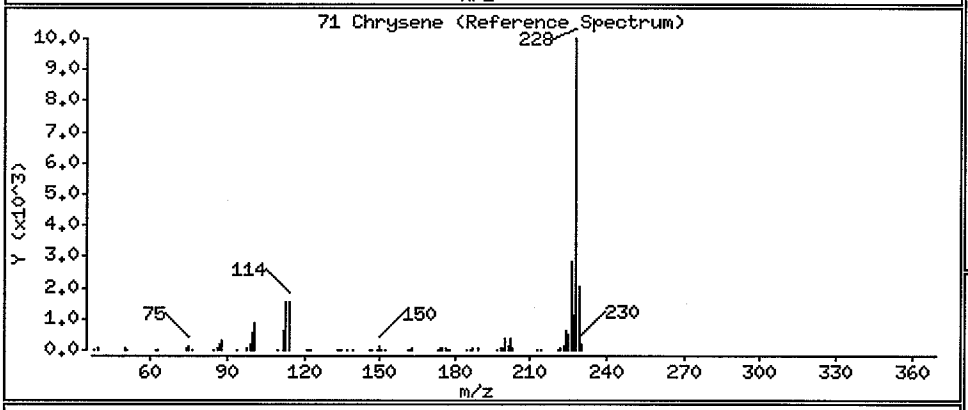
Volume Injected (uL): 1.0 Operator: LJR/VTS

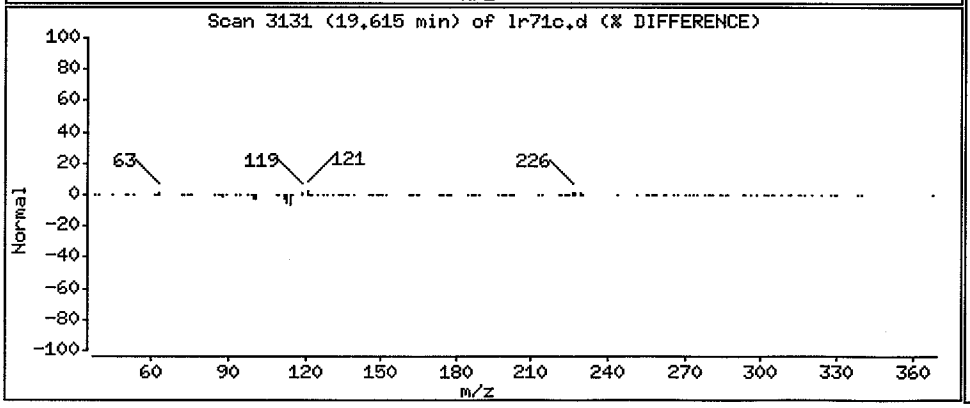
Column phase: ZB-5 Column diameter: 0.32

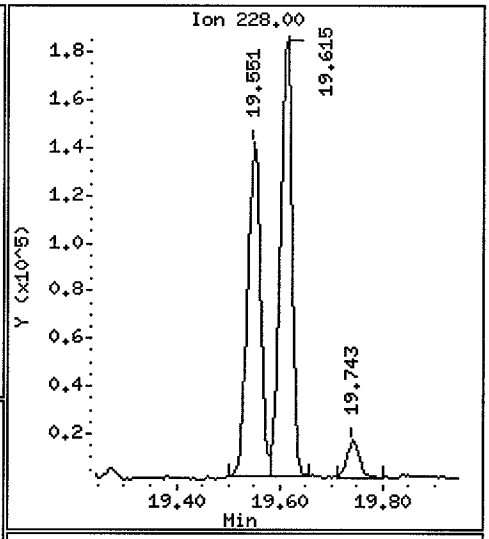
71 Chrysene Concentration: 111.1 ug/kg

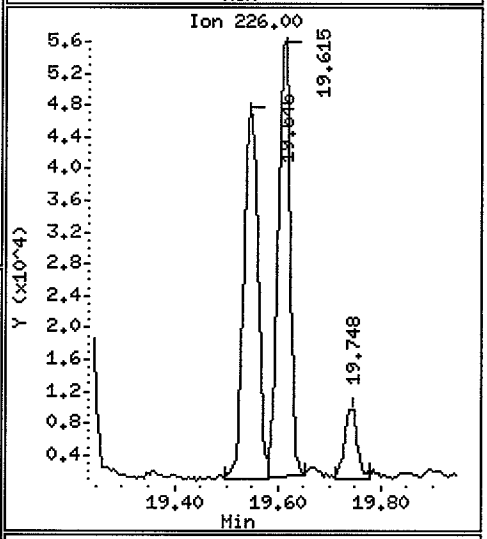


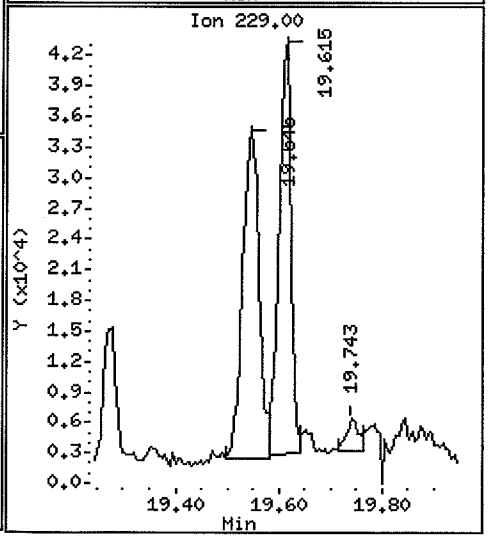












Data File: /chem1/nt6.i/20071018.b/lr71c.d

Date : 18-OCT-2007 15:47

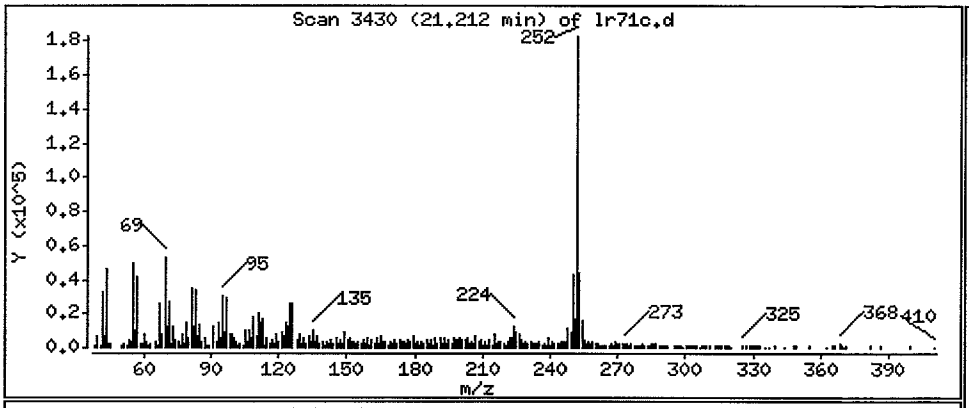
Client ID: AN-SS-03-070928 Instrument: nt6.i

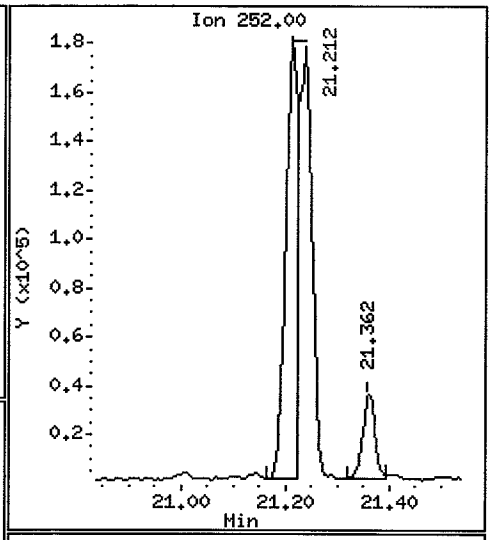
Sample Info: LR71C

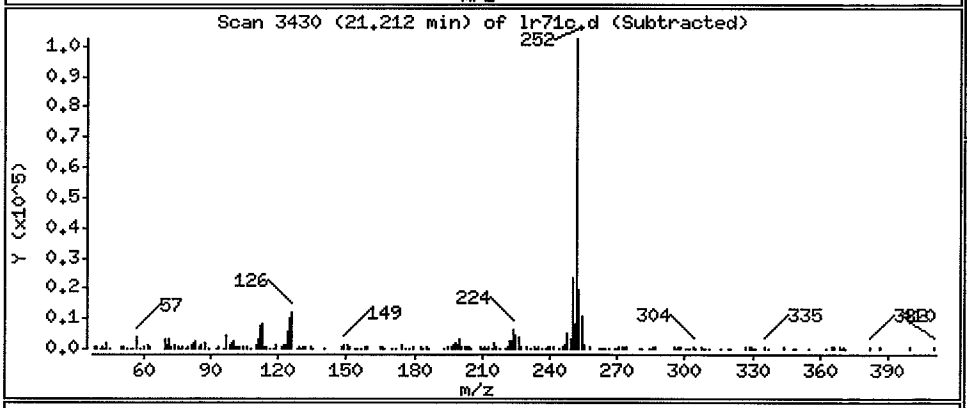
Volume Injected (uL): 1.0 Operator: LJR/VTS

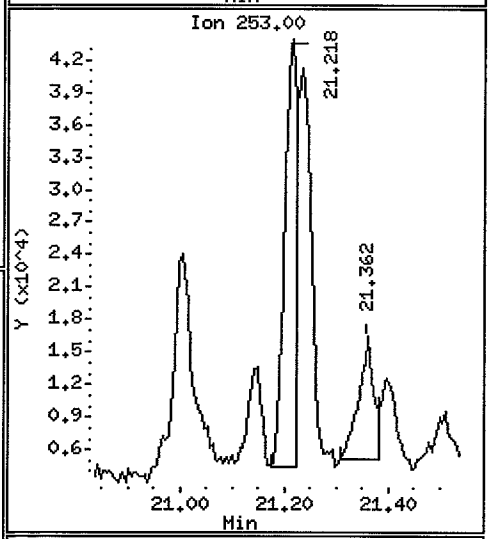
Column phase: ZB-5 Column diameter: 0.32

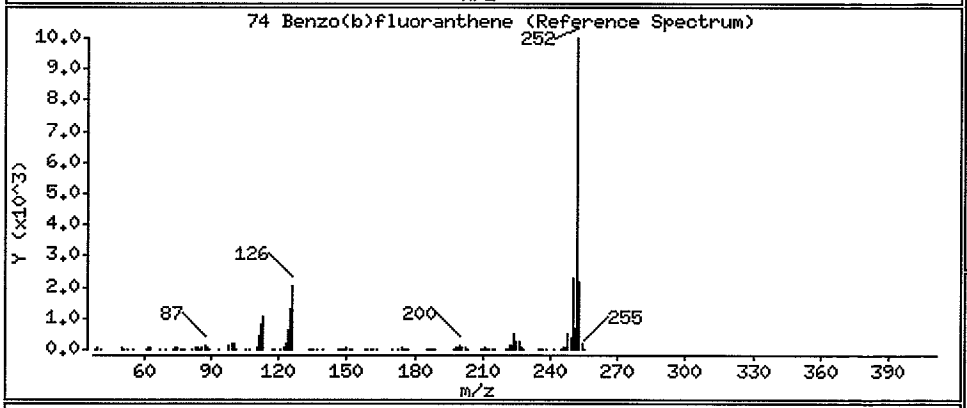
74 Benzo(b)fluoranthene Concentration: 119.6 ug/kg

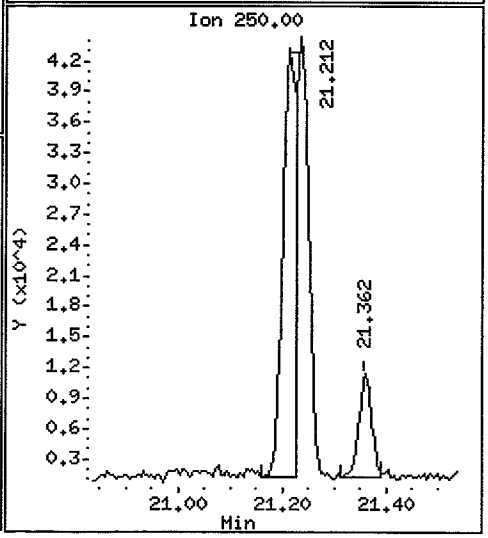


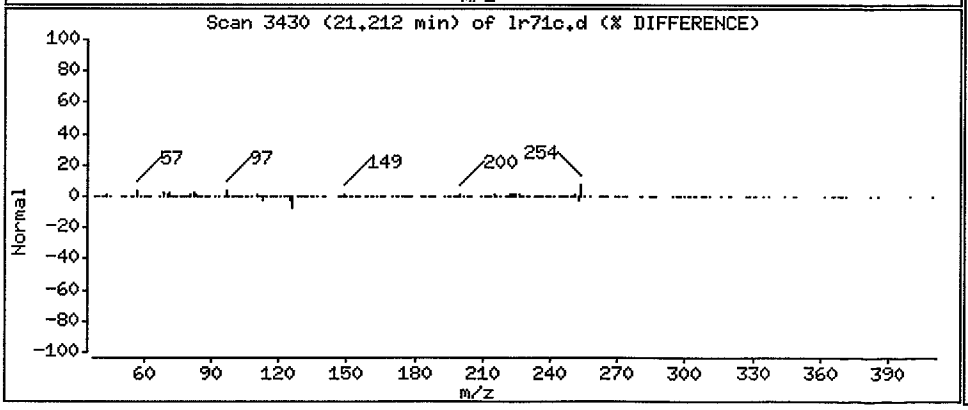












Data File: /chem1/nt6.i/20071018.b/lr71c.d

Date : 18-OCT-2007 15:47

Client ID: AN-SS-03-070928 Instrument: nt6.i

Sample Info: LR71C

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

Column phase: ZB-5 Column diameter: 0.32

75 Benzo(k)fluoranthene Concentration: 126.7 ug/kg

