Data File: /chem3/nt4.i/20071101.b/lr71c2.d

Date : 01-NOV-2007 17:42

Client ID:

Instrument: nt4.i

Sample Info: LR71CRE

Volume Injected (uL): 1.0

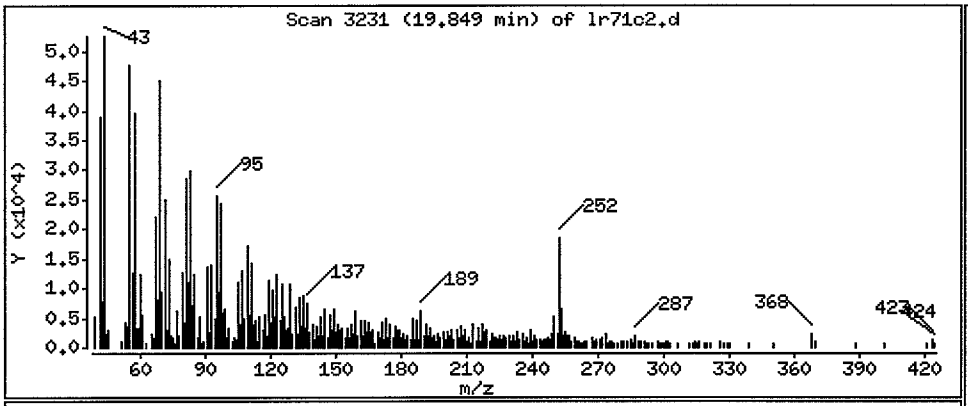
Operator: VTS

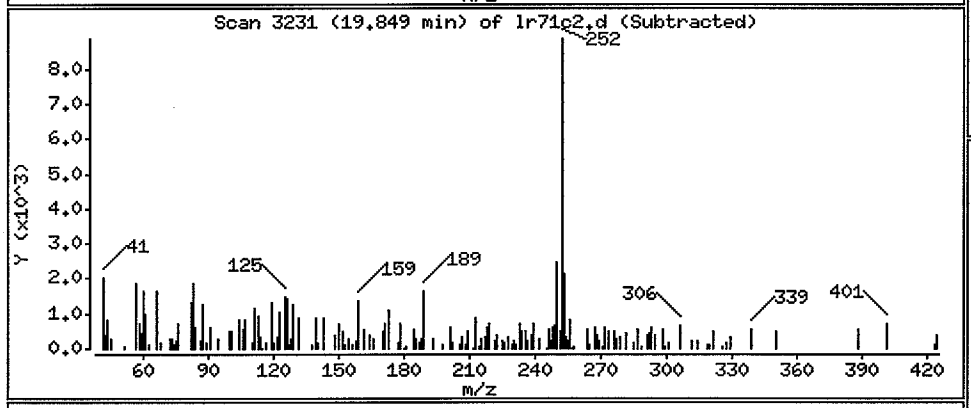
Column phase: ZB-5

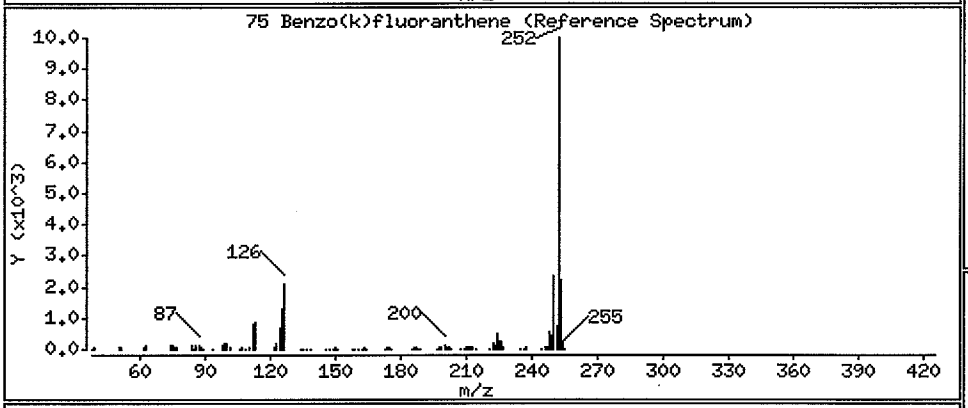
Column diameter: 0.32

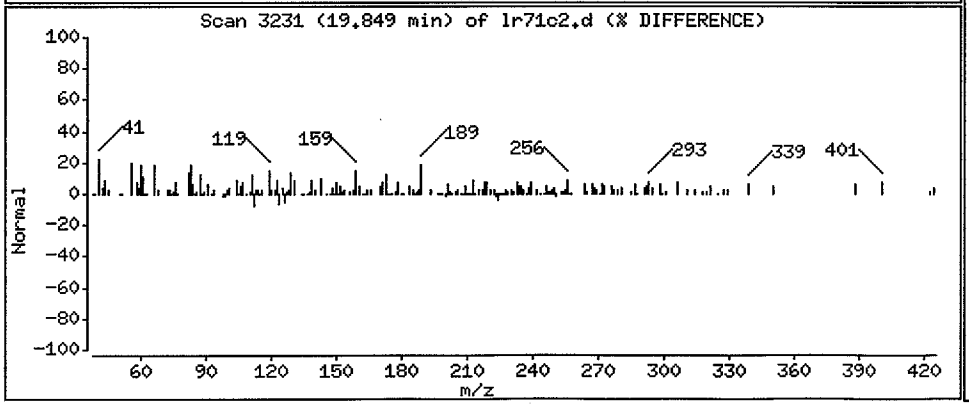
75 Benzo(k)fluoranthene

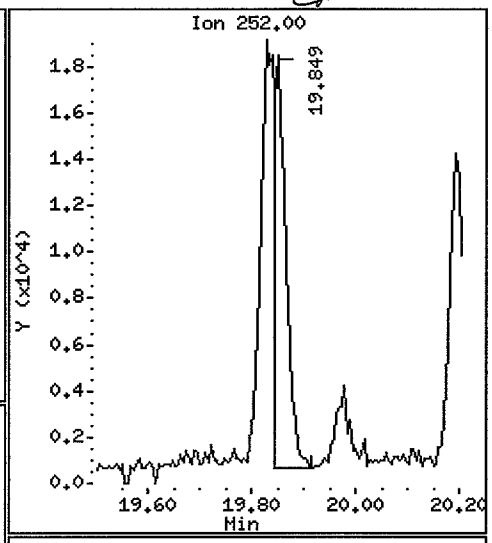
Concentration: 15.74 ug/Kg

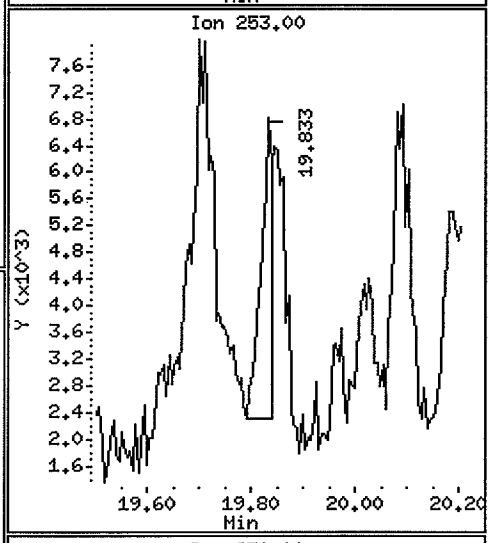


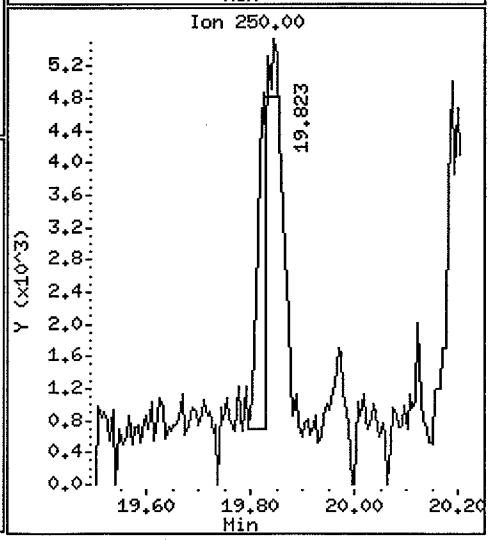












Data File: /chem3/nt4.i/20071101.b/lr71c2.d

Date : 01-NOV-2007 17:42

Client ID:

Instrument: nt4.i

Sample Info: LR71CRE

Volume Injected (uL): 1.0

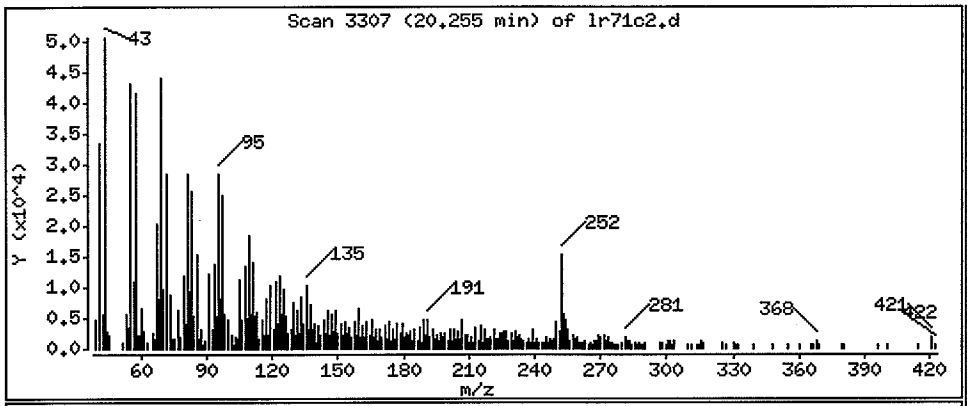
Operator: VTS

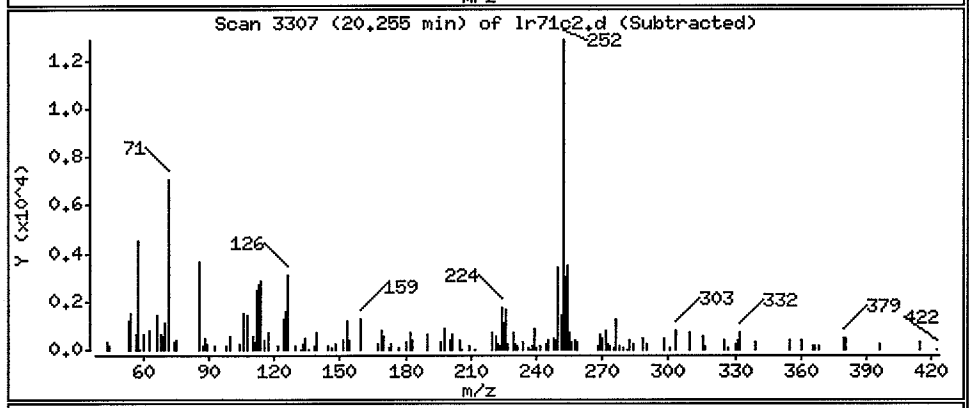
Column phase: ZB-5

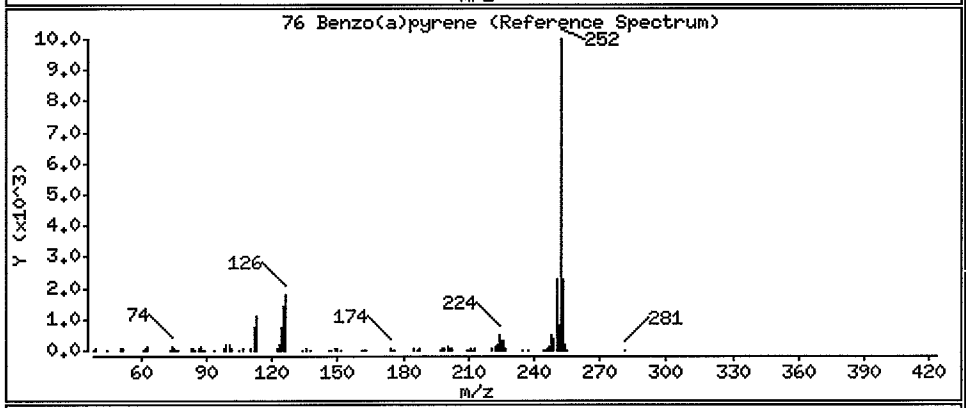
Column diameter: 0.32

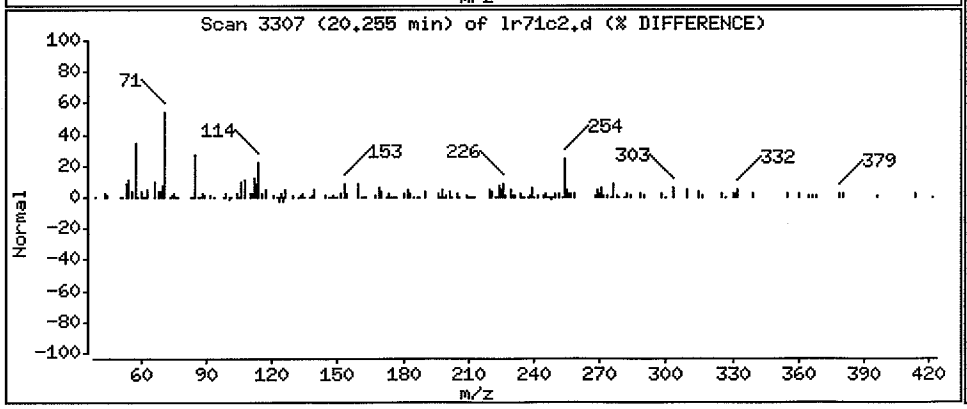
76 Benzo(a)pyrene

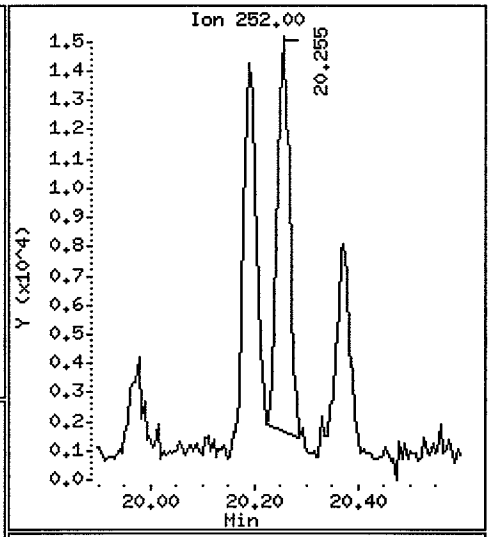
Concentration: 15.12 ug/Kg

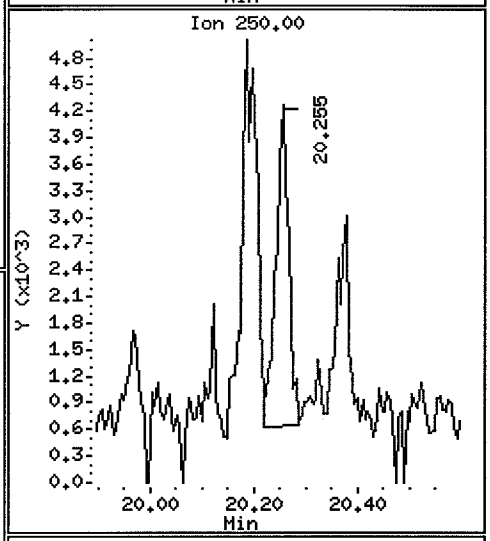


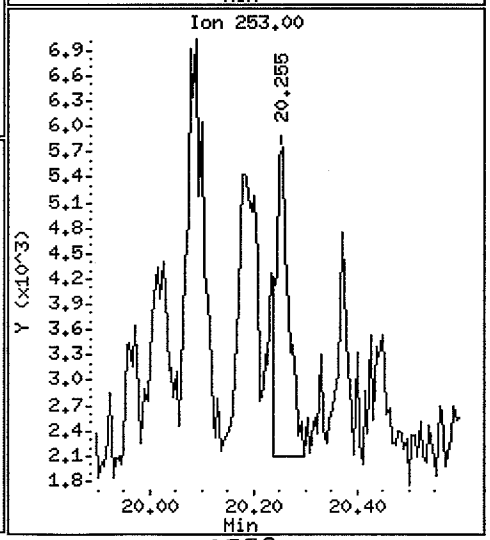












Data File: /chem3/nt4.i/20071101.b/lr71c2.d

Date : 01-NOV-2007 17:42

Client ID:

Instrument: nt4.i

Sample Info: LR71CRE

Volume Injected (uL): 1.0

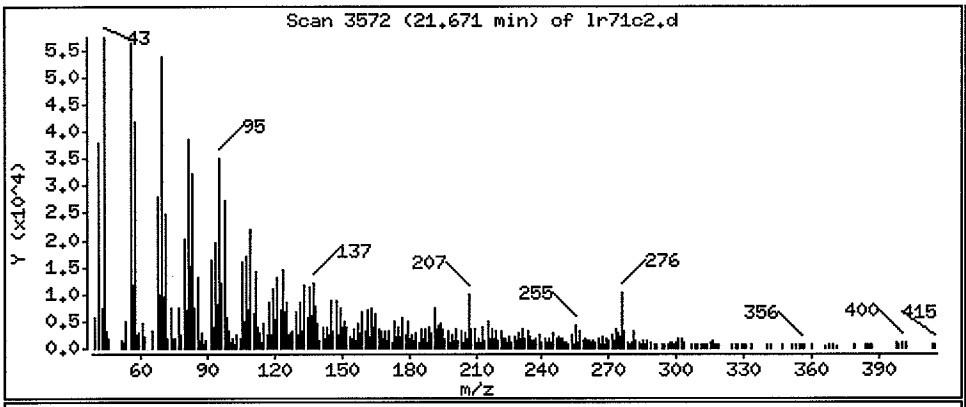
Operator: VTS

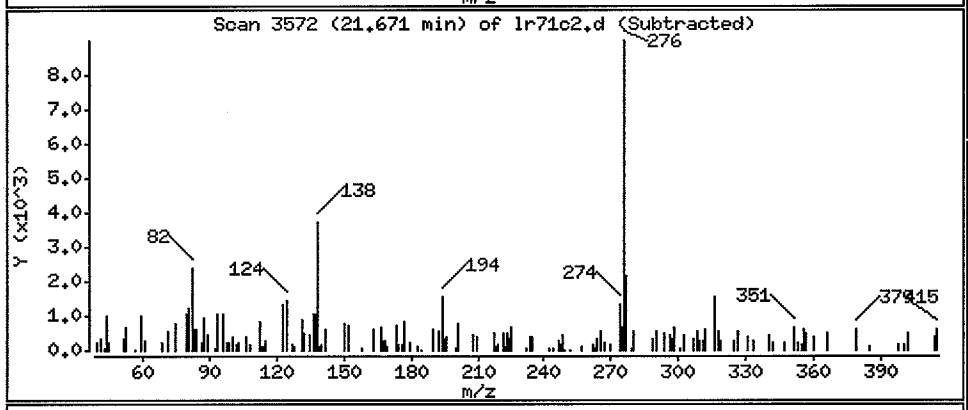
Column phase: ZB-5

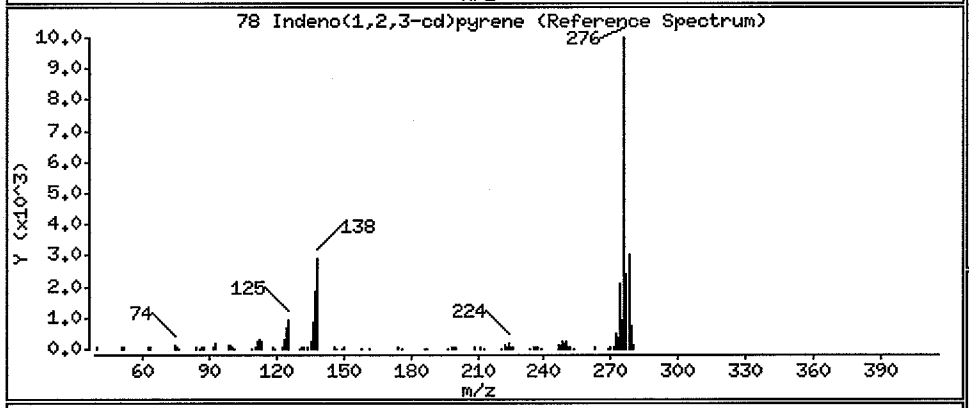
Column diameter: 0.32

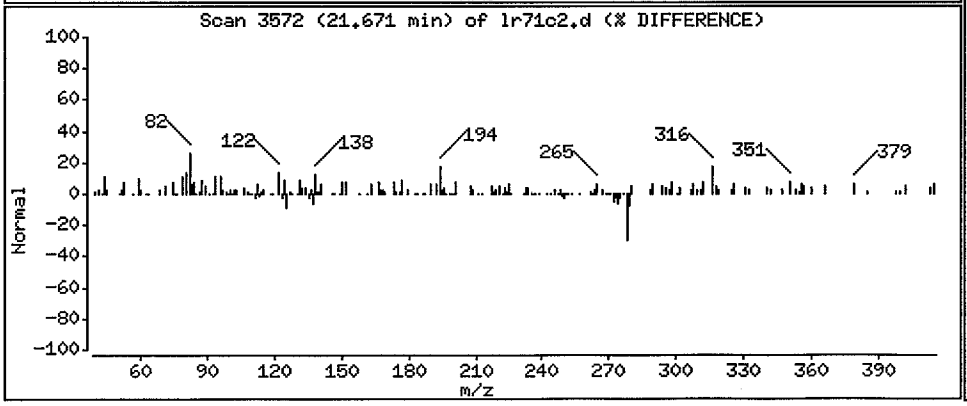
78 Indeno(1,2,3-cd)pyrene

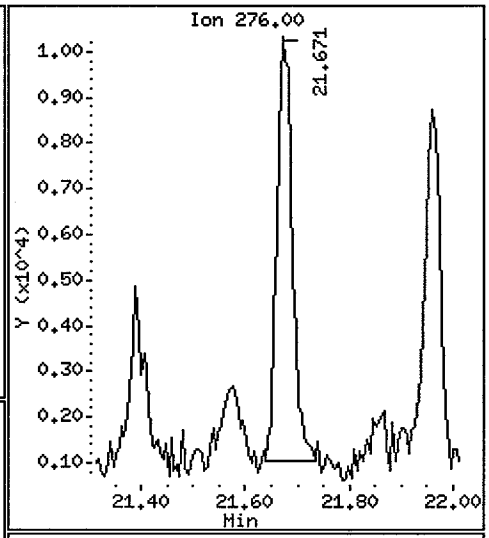
Concentration: 12.16 ug/Kg

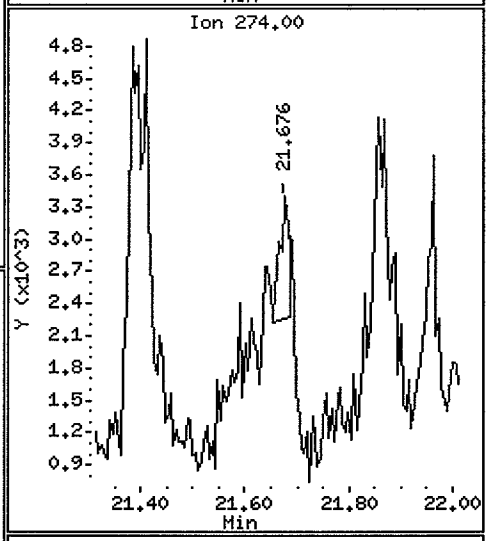


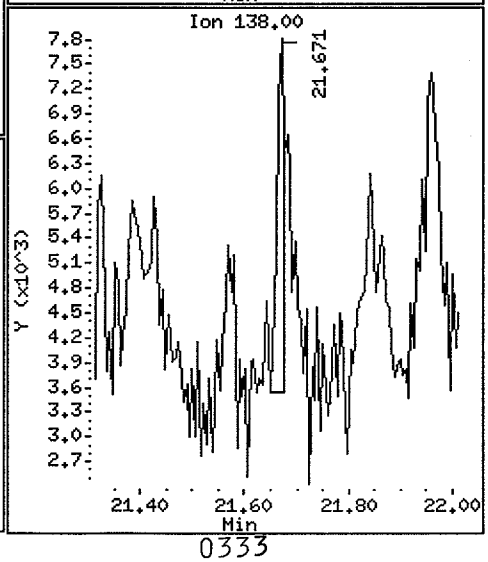












Data File: /chem3/nt4.i/20071101.b/lr71c2.d

Date : 01-NOV-2007 17:42

Client ID:

Instrument: nt4.i

Sample Info: LR71CRE

Volume Injected (uL): 1.0

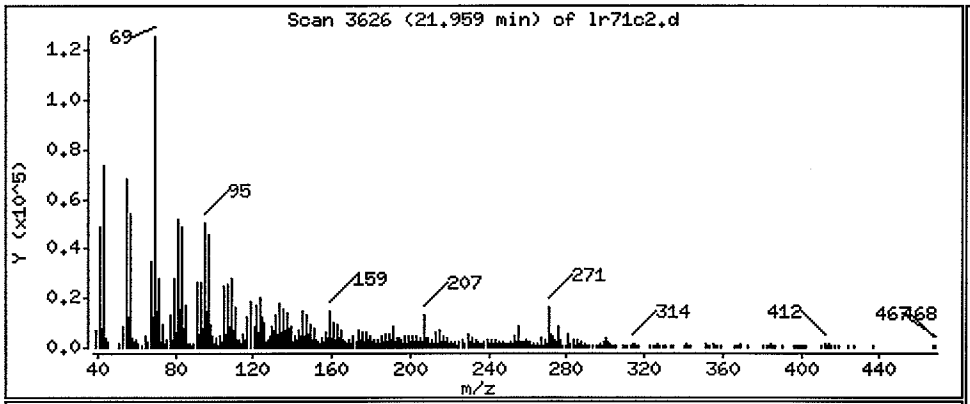
Operator: VTS

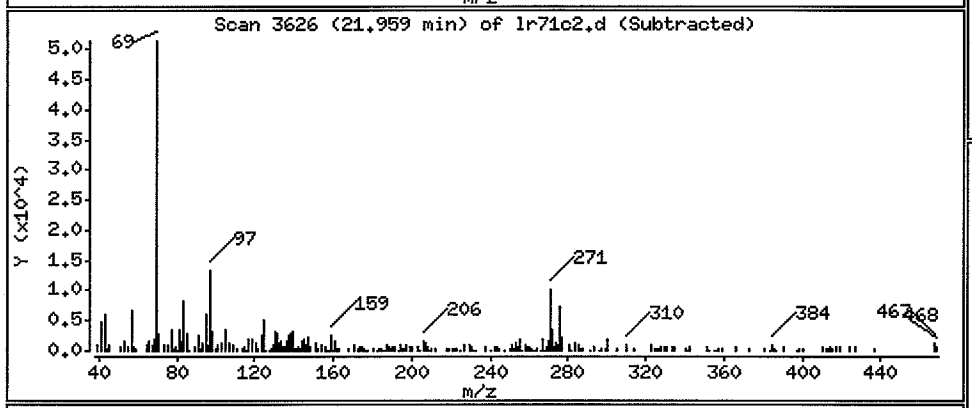
Column phase: ZB-5

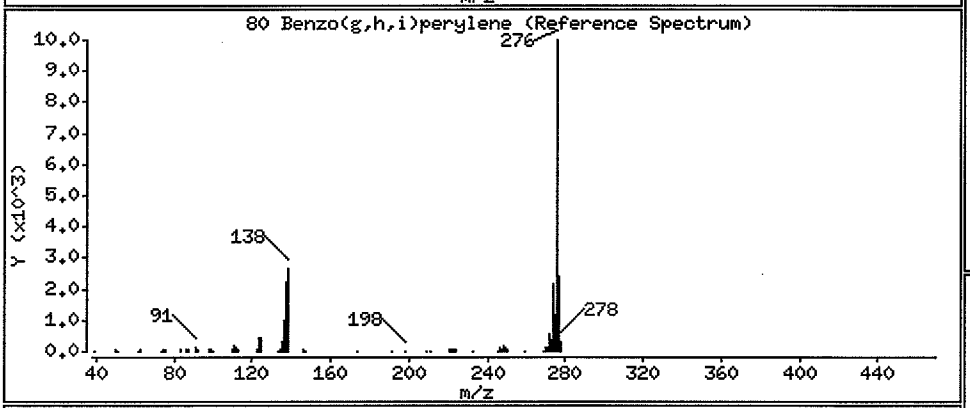
Column diameter: 0.32

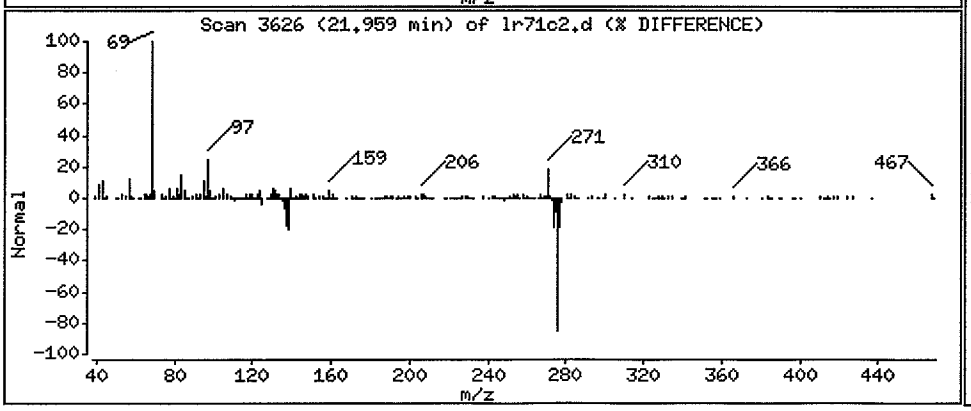
80 Benzo(g,h,i)perylene

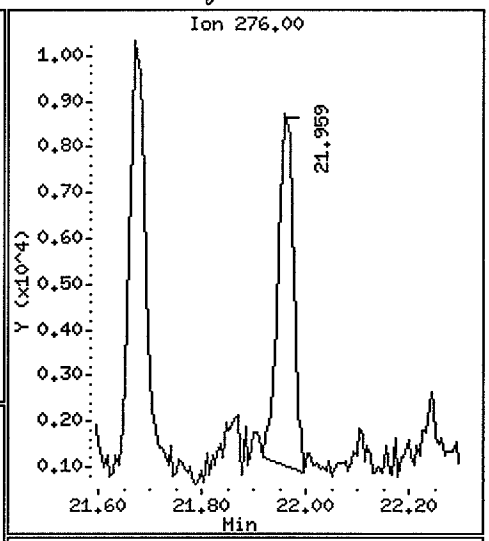
Concentration: 11.49 ug/Kg

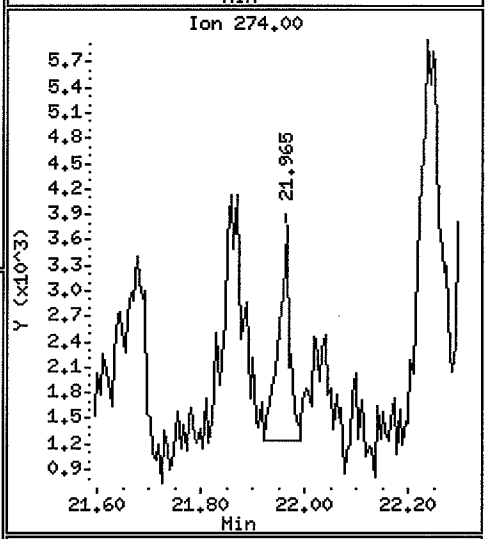


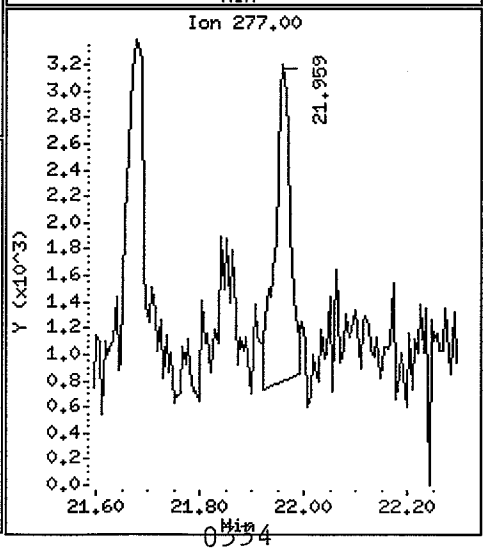












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS

Sample ID: AN-SS-07-070928
SAMPLE

Lab Sample ID: LR71D
LIMS ID: 07-20769
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 16:21
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: 28.7%

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**	**21**
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	9.9	< 9.9 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	9.9	< 9.9 UJ
87-86-5	Pentachlorophenol	99	< 99 U
85-01-8	Phenanthrene	20	< 20 U
120-12-7	Anthracene	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
206-44-0	**Fluoranthene**	**20**	**45**
129-00-0	**Pyrene**	**20**	**32**
85-68-7	Butylbenzylphthalate	20	< 20 U
56-55-3	Benzo(a)anthracene	20	< 20 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**20**	**60**
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-07-070928
SAMPLE

Lab Sample ID: LR71D
LIMS ID: 07-20769
Matrix: Sediment
Date Analyzed: 10/18/07 16:21

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	51.6%	2-Fluorobiphenyl	53.2%
d14-p-Terphenyl	64.0%	d4-1,2-Dichlorobenzene	46.4%
d5-Phenol	54.4%	2-Fluorophenol	64.5%
2,4,6-Tribromophenol	66.7%	d4-2-Chlorophenol	54.7%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20071018.b/lr71d.d
Lab Smp Id: LR71D Client Smp ID: AN-SS-07-070928
Inj Date : 18-OCT-2007 16:21
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : LR71D
Misc Info : 07-20769
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: 11
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	71.00000	Weight of sample extracted (g)
M	28.70000	% Moisture

Cpnd Variable Local Compound Variable

		QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$	1 2-Fluorophenol	112	5.982	5.917	(0.756)	351198	24.2300	478.6
$	2 Phenol-d5	99	7.510	7.488	(0.949)	378232	20.4277	403.5
	3 Phenol	94	Compound Not Detected.					
$	5 2-Chlorophenol-d4	132	7.617	7.600	(0.962)	252557	20.4799	404.6
	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)	196689	20.0000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	8.215	8.204	(1.038)	107120	11.5836	228.8
	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)	14784	1.07033	21.14
$	18 Nitrobenzene-d5	82	8.851	8.845	(0.888)	254876	12.9089	255.0
	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)	614521	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)	380408	13.3169	263.1
	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	12.852	12.841	(1.000)	366890	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	13.696	13.695	(1.066)	12666	0.50451 LAL	9.966
	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)	88823	24.9530	492.9
	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)	635257	20.0000	
	60 Phenanthrene	178	15.272	15.261	(1.002)	38846	0.95308 LAL	18.83
	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	17.222	17.205	(1.130)	105459	2.26257	44.69
65	Pyrene	202	17.575	17.563	(0.898)	86568	1.60095	31.63
$ 66	Terphenyl-d14	244	17.906	17.884	(0.915)	542061	16.0158	316.4
67	Butylbenzylphthalate	149	Compound Not Detected.					
68	Benzo(a)anthracene	228	Compound Not Detected.					
* 69	Chrysene-d12	240	19.573	19.556	(1.000)	752882	20.0000	
70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71	Chrysene	228	19.610	19.598	(1.002)	32954	0.62165 LOL	12.28
72	bis(2-Ethylhexyl)phthalate	149	19.797	19.785	(0.955)	92424	3.06026	60.45
* 134	Di-n-octylphthalate-d4	153	20.737	20.720	(1.000)	998802	20.0000	
73	Di-n-octylphthalate	149	Compound Not Detected.					
74	Benzo(b)fluoranthene	252	21.202	21.190	(0.975)	28406	0.63694 LOL	12.58
75	Benzo(k)fluoranthene	252	21.229	21.228	(0.977)	24064	0.51008 ↓	10.08(M)
76	Benzo(a)pyrene	252	Compound Not Detected.					
* 77	Perylene-d12	264	21.736	21.719	(1.000)	621049	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: lr71d.d
Lab Smp Id: LR71D
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20071018.b/SW846.m
Misc Info: 07-20769

Calibration Date: 18-OCT-2007
Calibration Time: 10:07
Client Smp ID: AN-SS-07-070928
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	196689	-7.26
27 Naphthalene-d8	656578	328289	1313156	614521	-6.41
42 Acenaphthene-d10	353705	176852	707410	366890	3.73
59 Phenanthrene-d10	526440	263220	1052880	635257	20.67
69 Chrysene-d12	581923	290962	1163846	752882	29.38
134 Di-n-octylphthala	979097	489548	1958194	998802	2.01
77 Perylene-d12	686531	343266	1373062	621049	-9.54

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.90	7.40	8.40	7.92	0.15
27 Naphthalene-d8	9.96	9.46	10.46	9.97	0.12
42 Acenaphthene-d10	12.84	12.34	13.34	12.85	0.09
59 Phenanthrene-d10	15.22	14.72	15.72	15.24	0.11
69 Chrysene-d12	19.56	19.06	20.06	19.57	0.09
134 Di-n-octylphthala	20.72	20.22	21.22	20.74	0.08
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

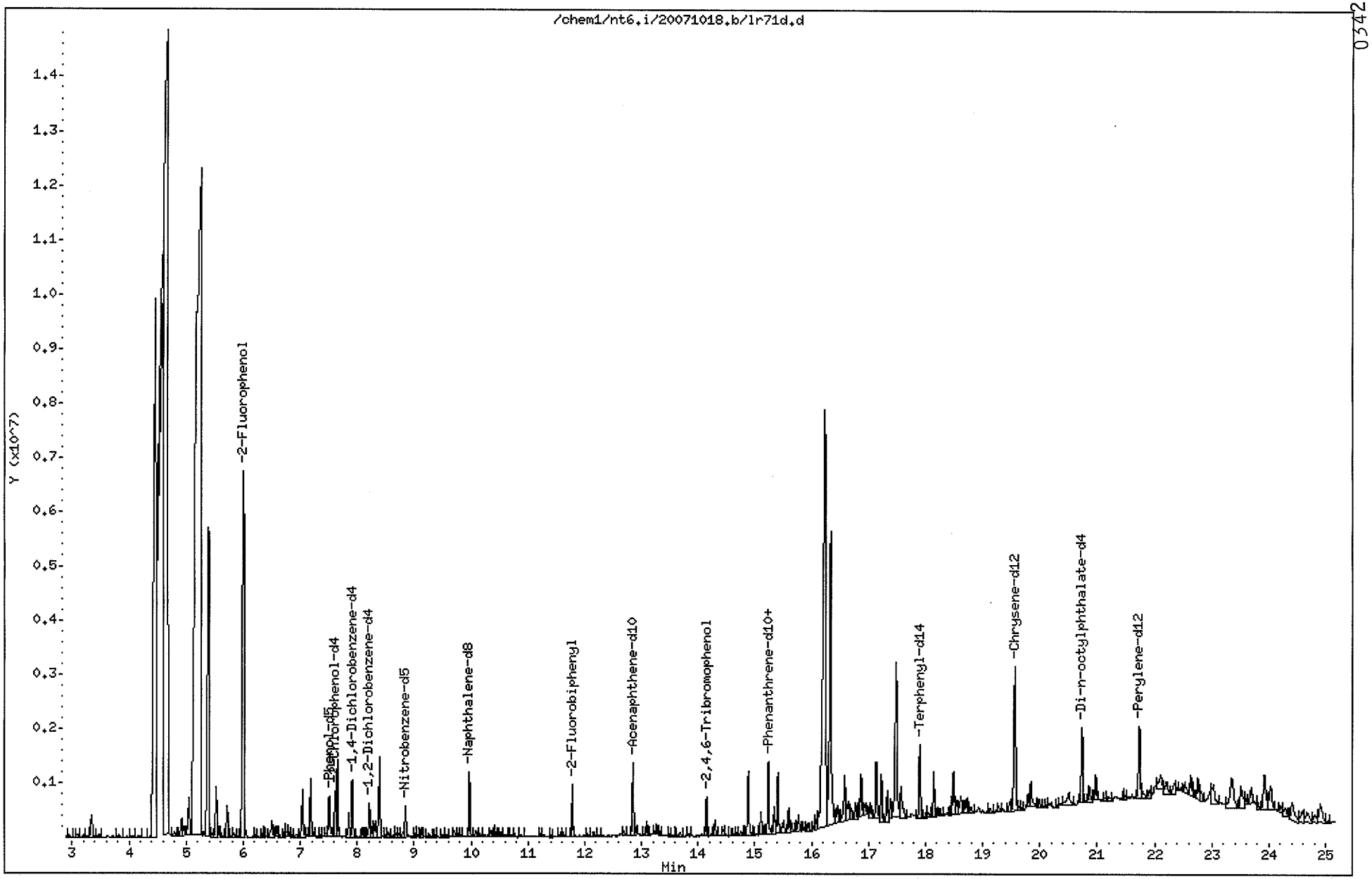
Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: LR71D
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20071018.b/SW846.m
Misc Info: 07-20769

Client SDG: LR71
Fraction: SV
Client Smp ID: AN-SS-07-070928
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	740.8	478.6	64.61	11-84
$ 2 Phenol-d5	740.8	403.5	54.47	25-86
$ 5 2-Chlorophenol-d4	740.8	404.6	54.61	23-91
$ 10 1,2-Dichlorobenzen	493.8	228.8	46.33	24-90
$ 18 Nitrobenzene-d5	493.8	255.0	51.64	26-88
$ 36 2-Fluorobiphenyl	493.8	263.1	53.27	34-91
$ 55 2,4,6-Tribromophen	740.8	492.9	66.54	25-107
$ 66 Terphenyl-d14	493.8	316.4	64.06	22-100

Data File: /chem1/nt6.i/20071018.b/lr71d.d
Date : 18-OCT-2007 16:21
Client ID: AN-SS-07-070928
Sample Info: LR71D
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/lr71d.d

Date : 18-OCT-2007 16:21

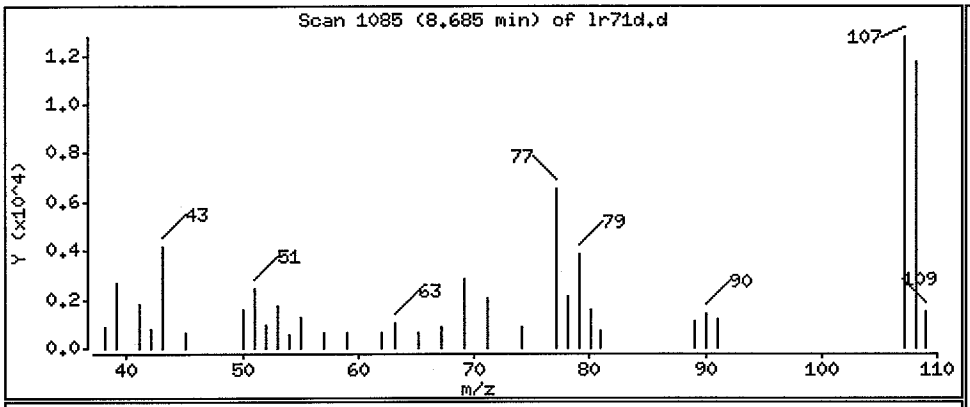
Client ID: AN-SS-07-070928 Instrument: nt6.i

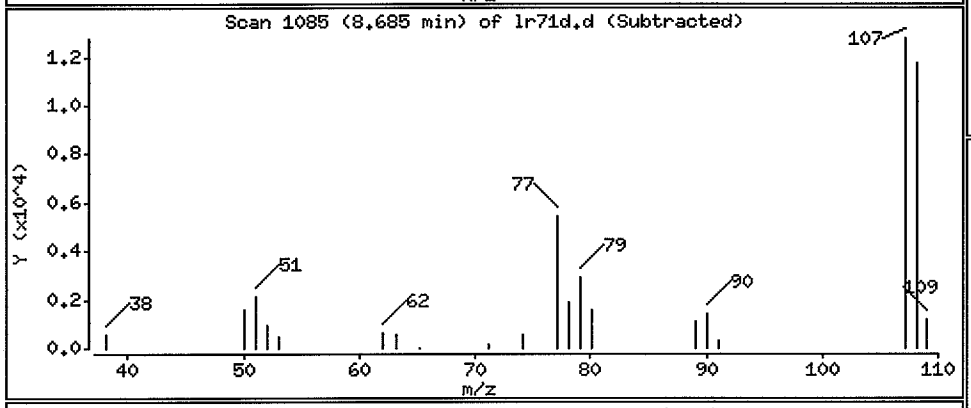
Sample Info: LR71D

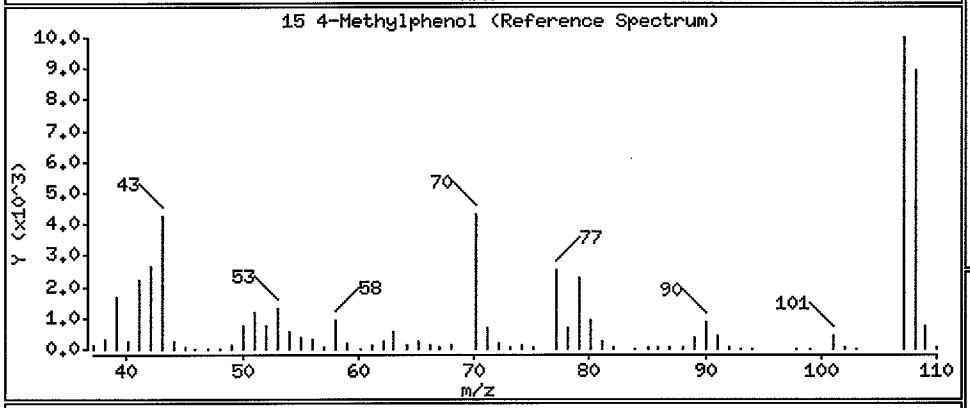
Volume Injected (uL): 1.0 Operator: LJR/VTS

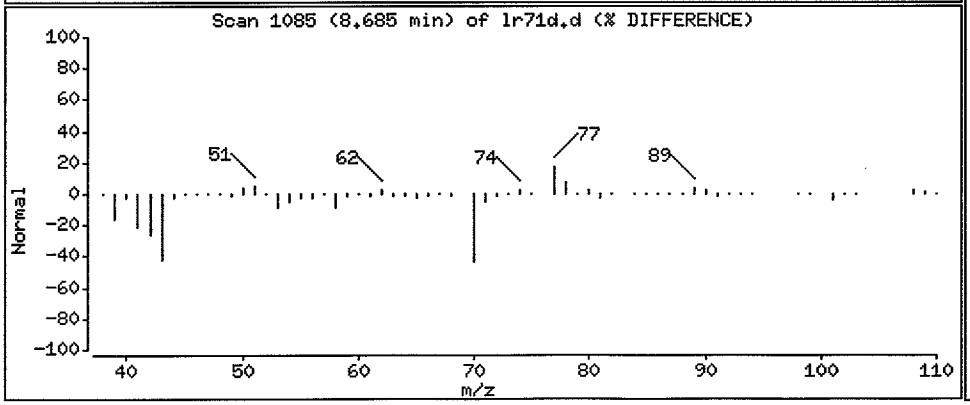
Column phase: ZB-5 Column diameter: 0.32

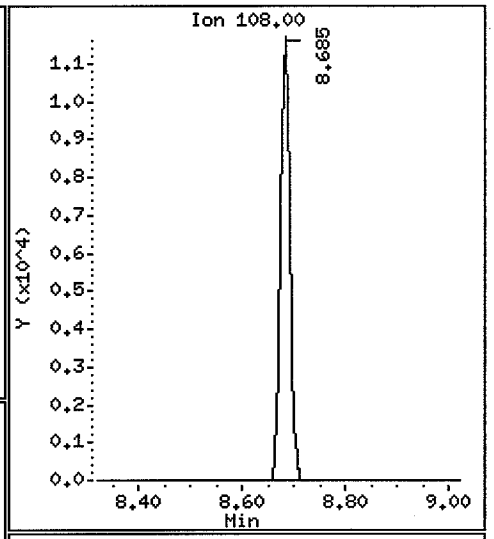
15 4-Methylphenol Concentration: 21.14 ug/kg

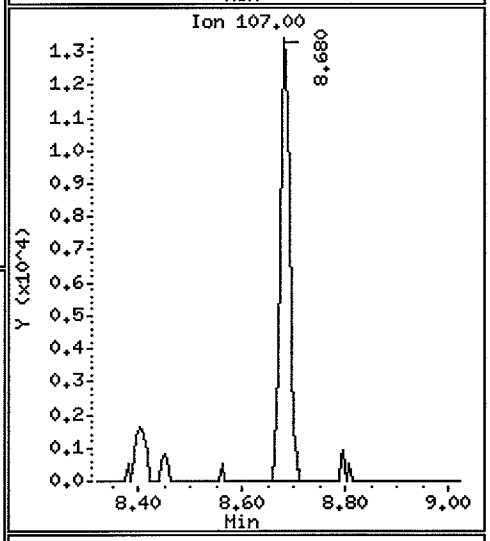


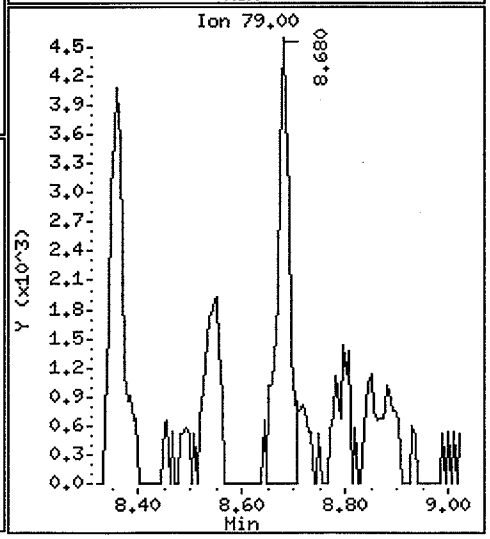












Data File: /chem1/nt6.i/20071018.b/lr71d.d

Date : 18-OCT-2007 16:21

Client ID: AN-SS-07-070928

Instrument: nt6.i

Sample Info: LR71D

Volume Injected (uL): 1.0

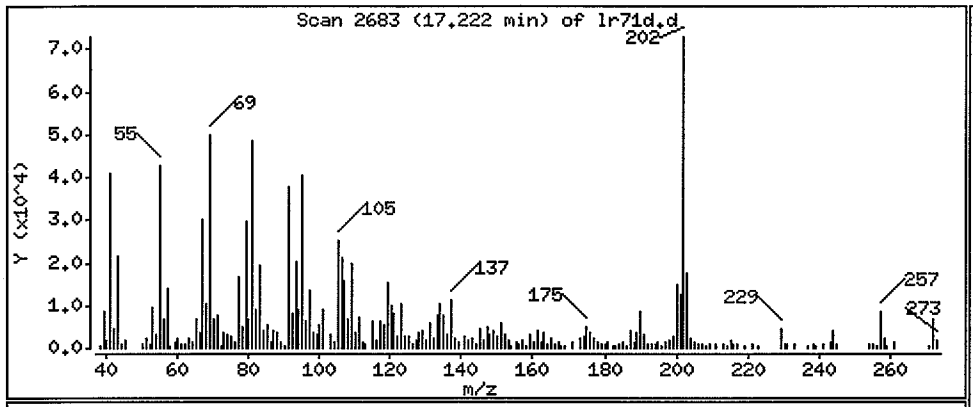
Operator: LJR/VTS

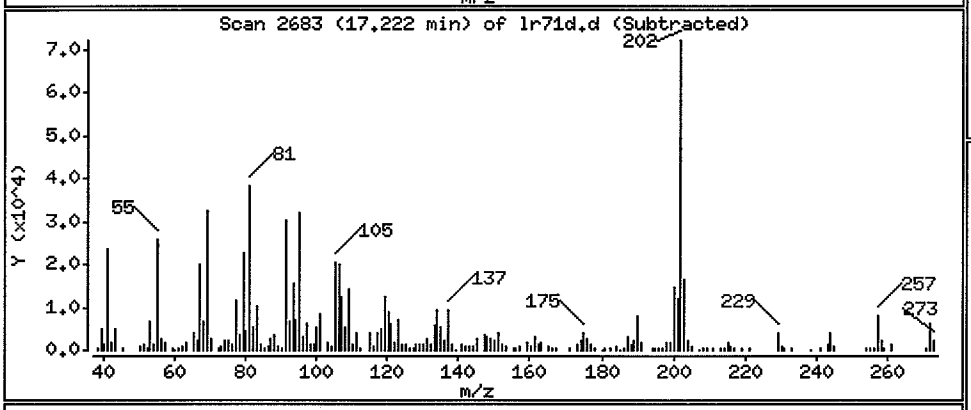
Column phase: ZB-5

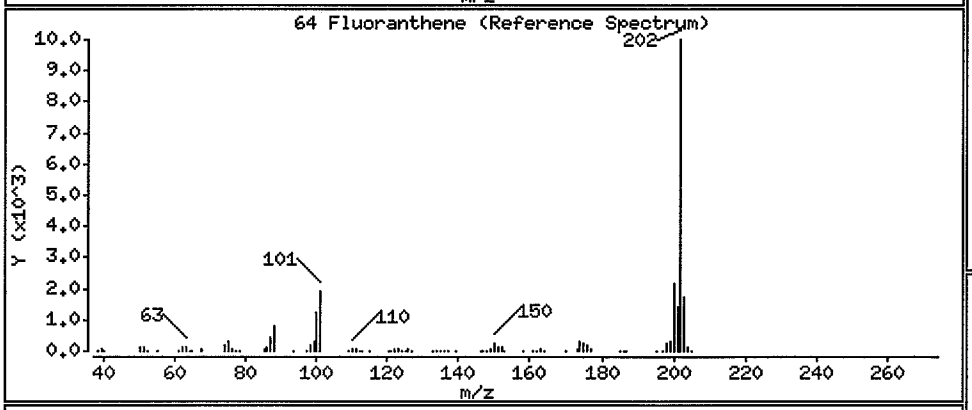
Column diameter: 0.32

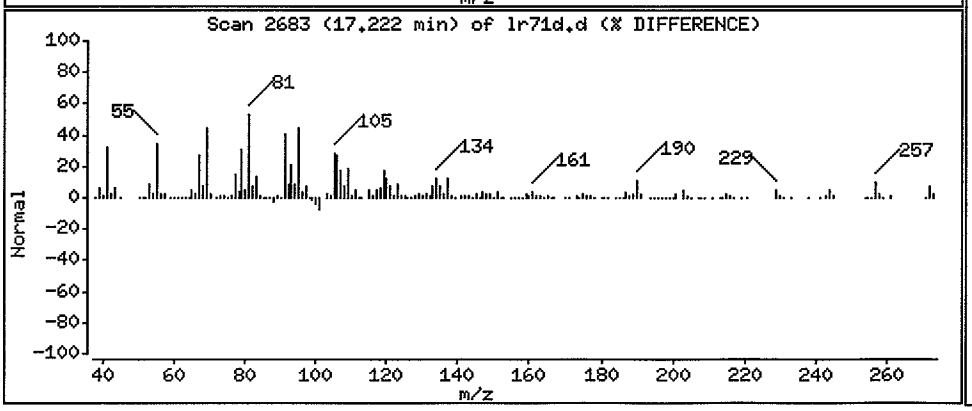
64 Fluoranthene

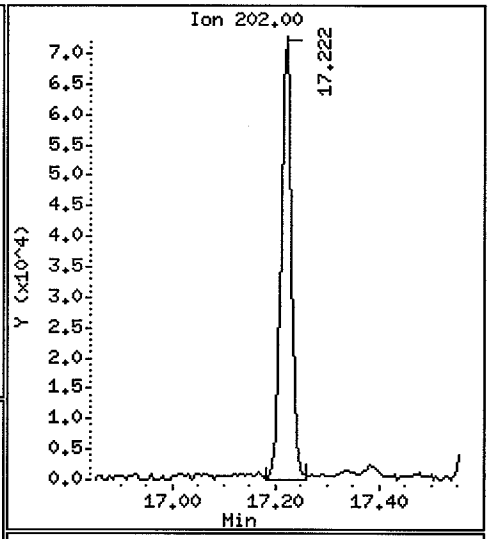
Concentration: 44.69 ug/kg

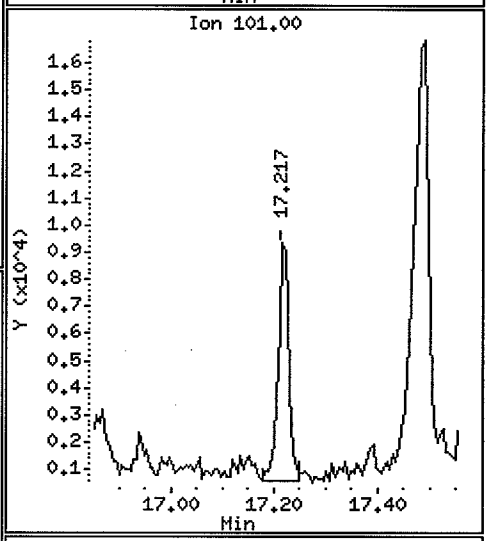


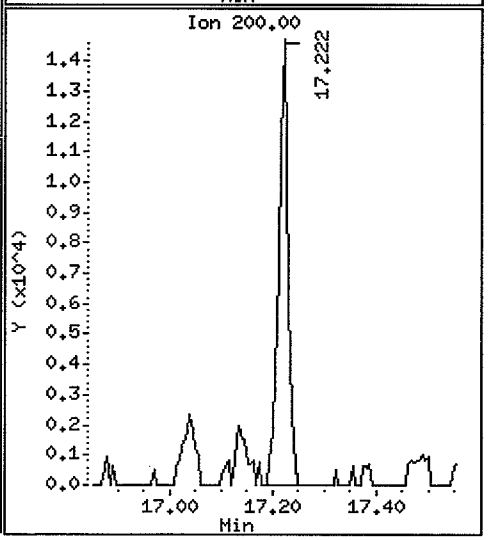












Data File: /chem1/nt6.i/20071018.b/lr71d.d

Date : 18-OCT-2007 16:21

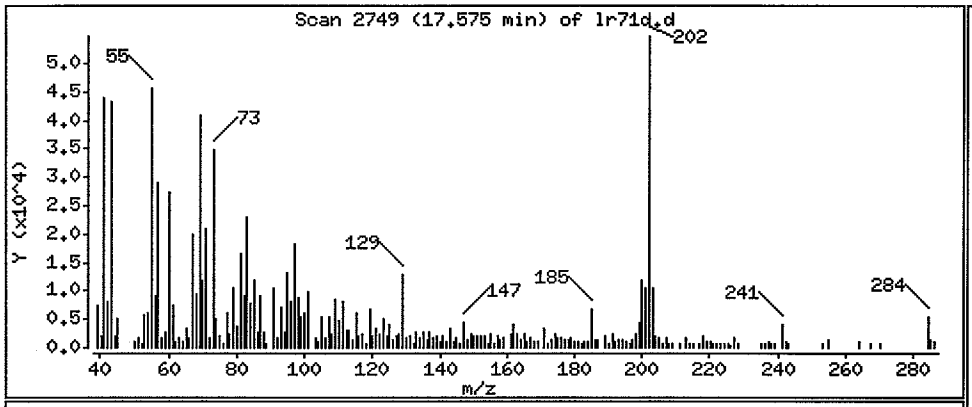
Client ID: AN-SS-07-070928 Instrument: nt6.i

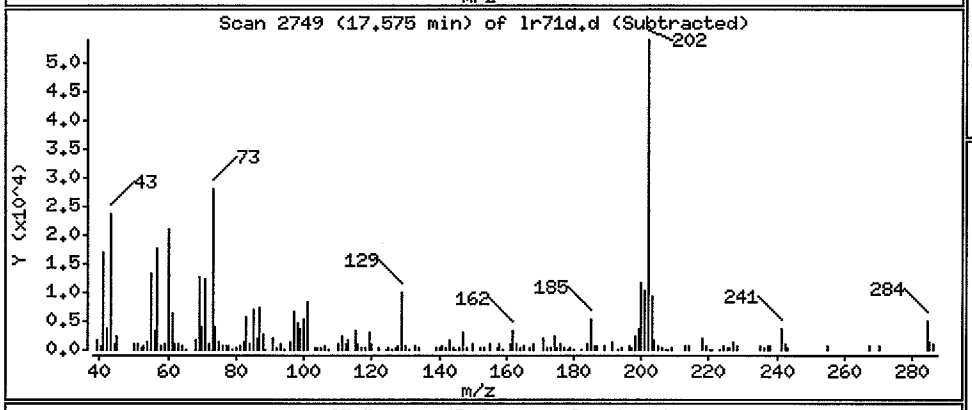
Sample Info: LR71D

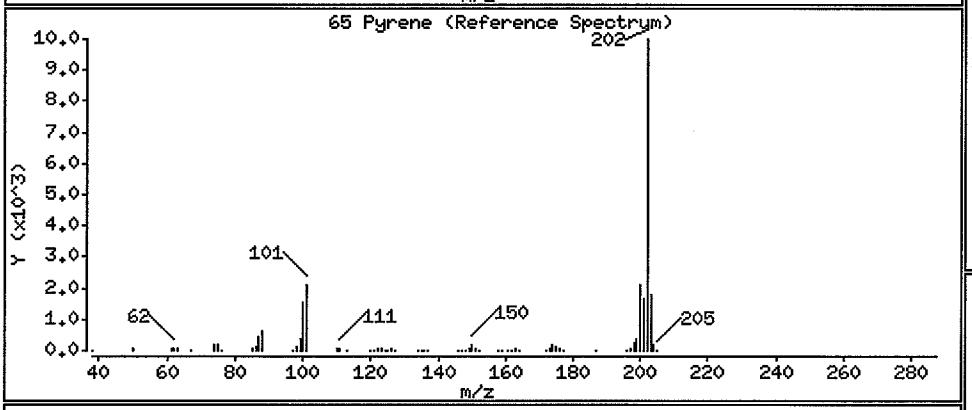
Volume Injected (uL): 1.0 Operator: LJR/VTS

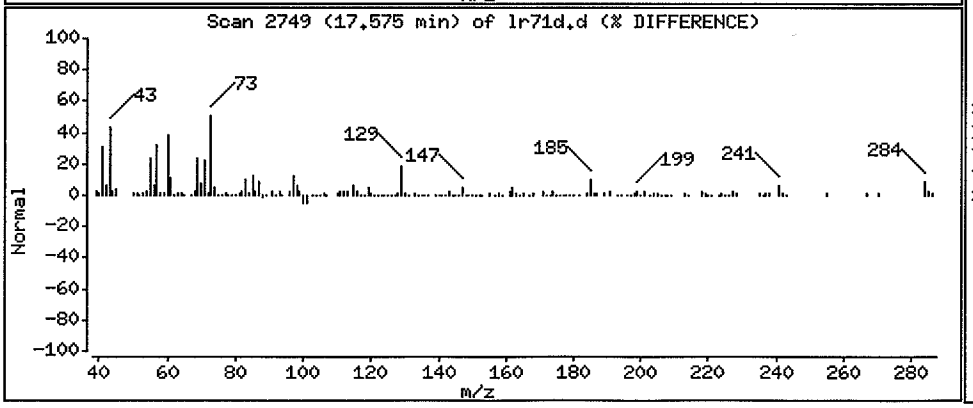
Column phase: ZB-5 Column diameter: 0.32

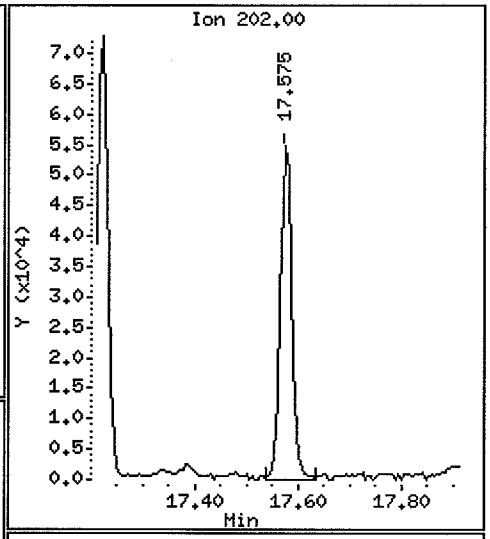
65 Pyrene Concentration: 31.63 ug/kg

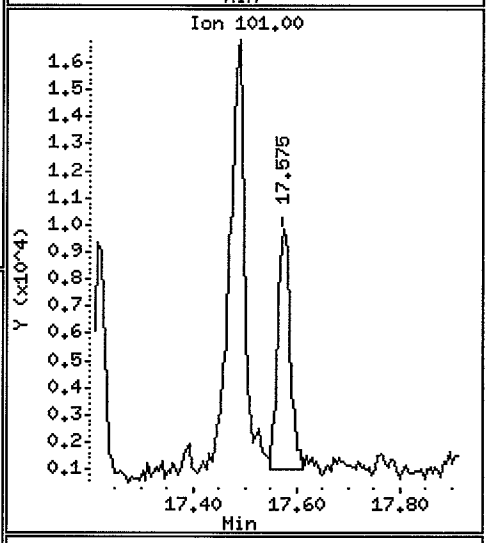


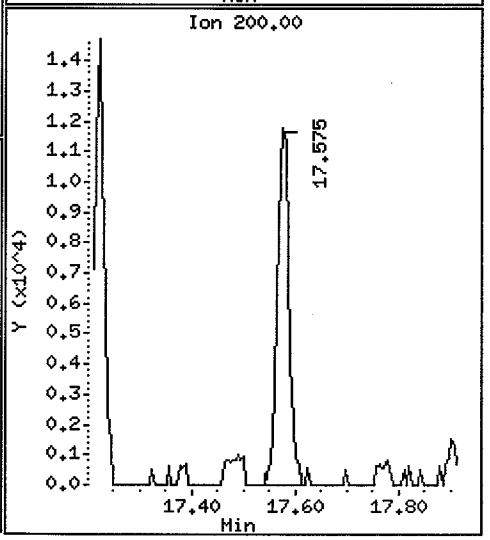












Data File: /chem1/nt6.i/20071018.b/lr71d.d

Date : 18-OCT-2007 16:21

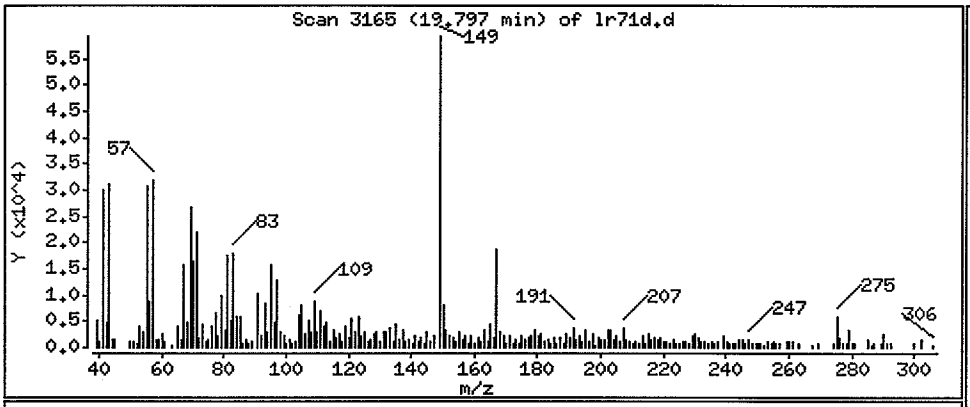
Client ID: AN-SS-07-070928 Instrument: nt6.i

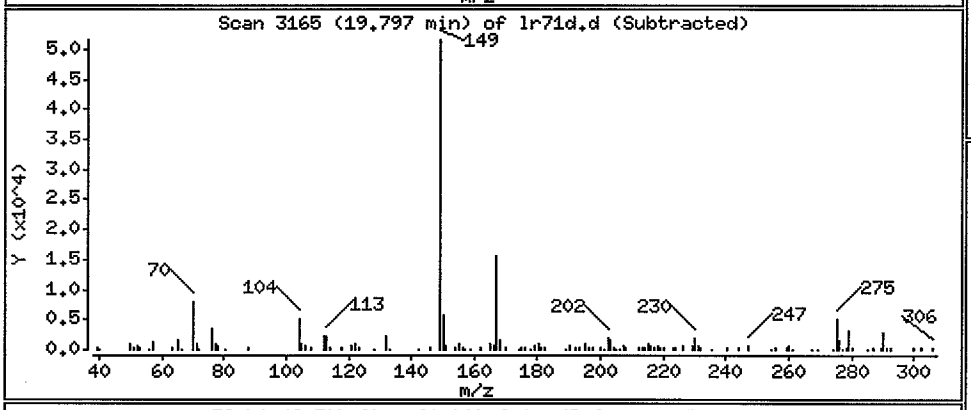
Sample Info: LR71D

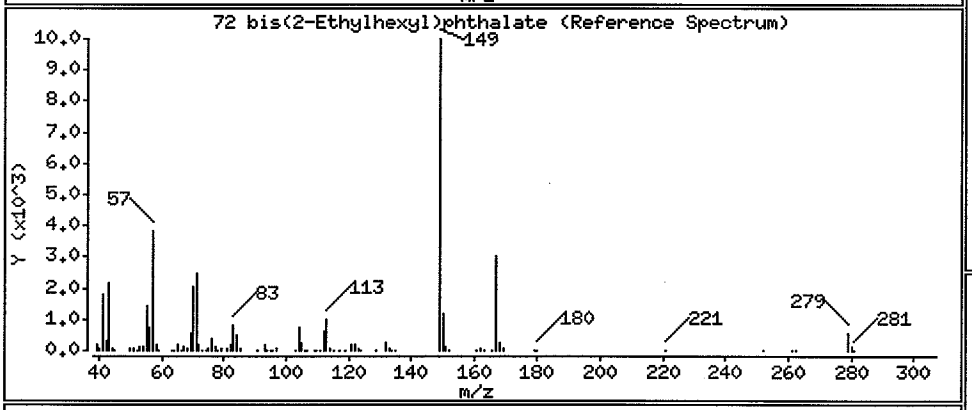
Volume Injected (uL): 1.0 Operator: LJR/VTS

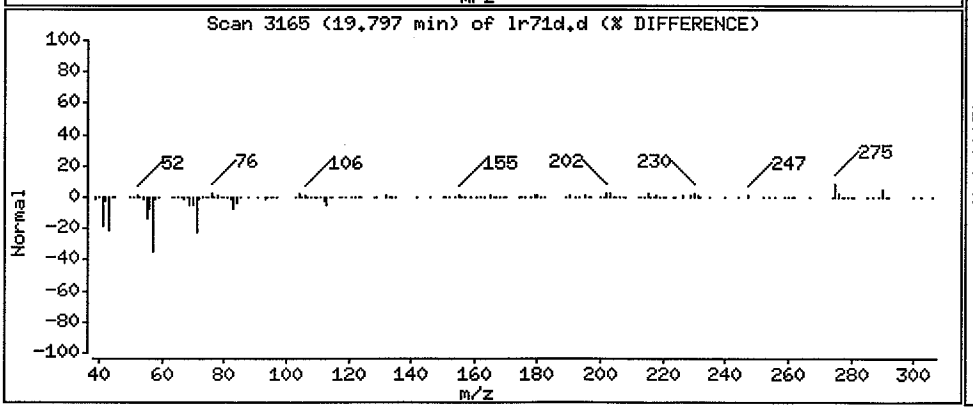
Column phase: ZB-5 Column diameter: 0.32

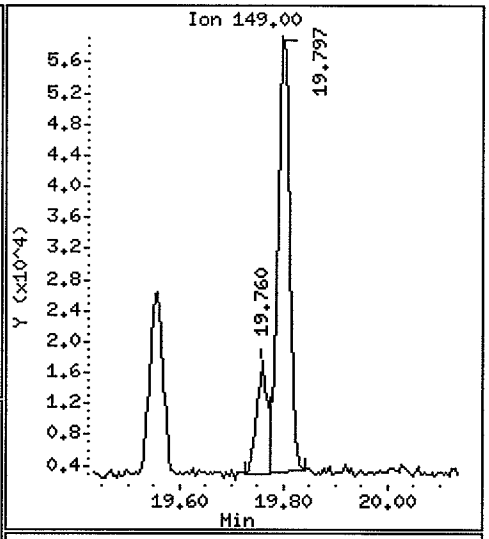
72 bis(2-Ethylhexyl)phthalate Concentration: 60.45 ug/kg

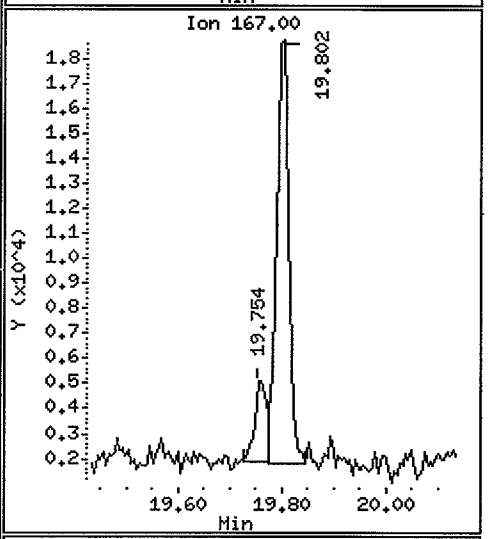


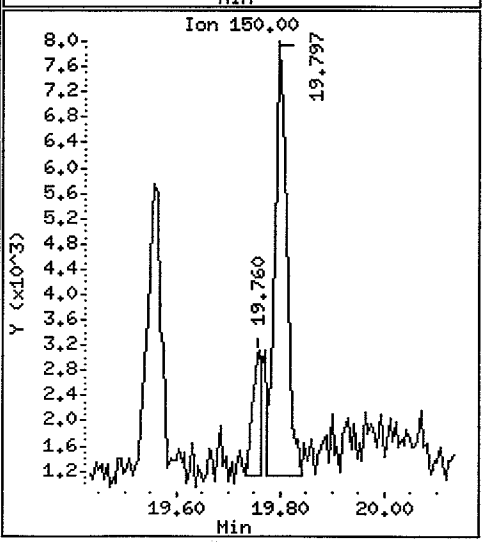












Data File: /chem1/nt6.i/20071018.b/lr71d.d

Date : 18-OCT-2007 16:21

Client ID: AN-SS-07-070928

Instrument: nt6.i

Sample Info: LR71D

Volume Injected (uL): 1.0

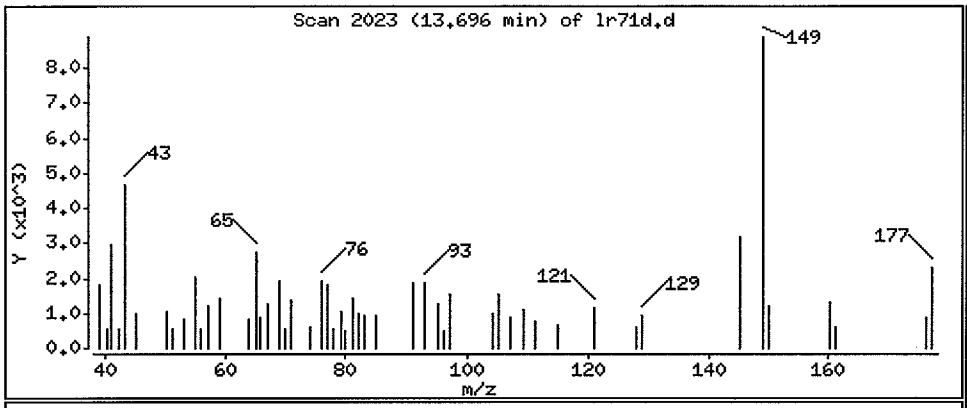
Operator: LJR/VTS

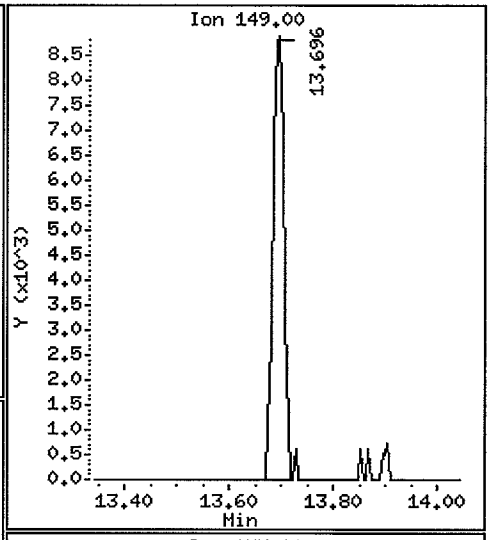
Column phase: ZB-5

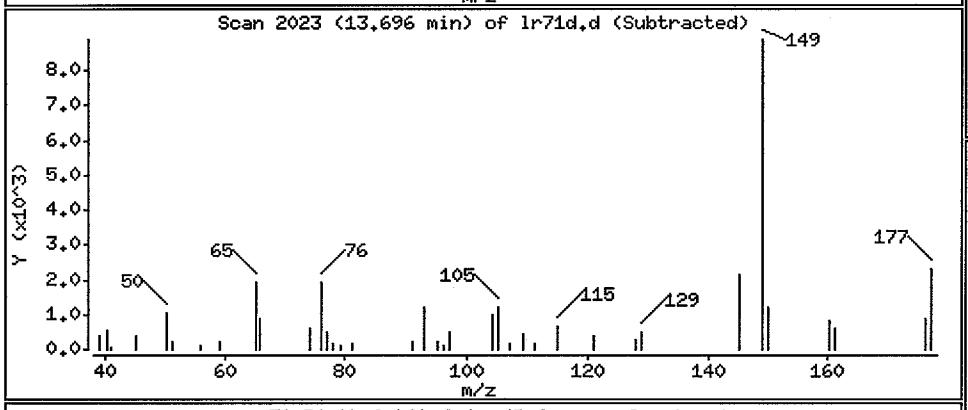
Column diameter: 0.32

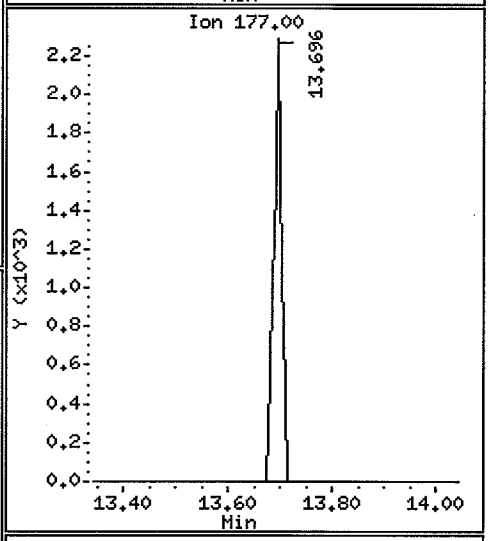
50 Diethylphthalate

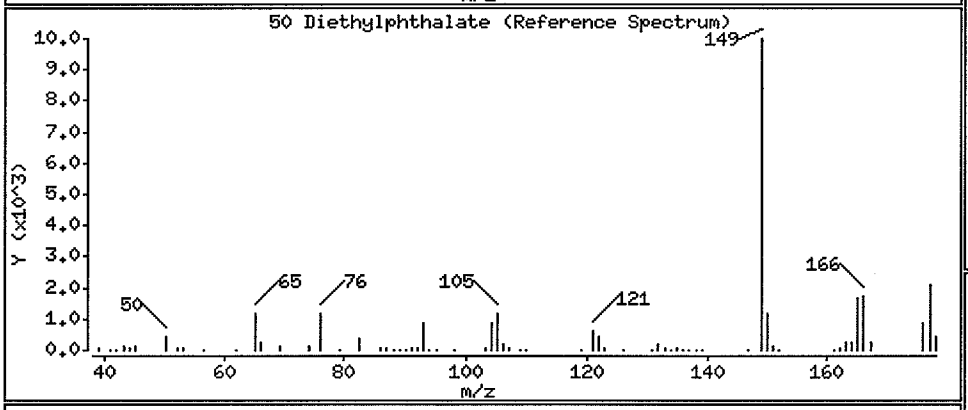
Concentration: 9.966 ug/kg

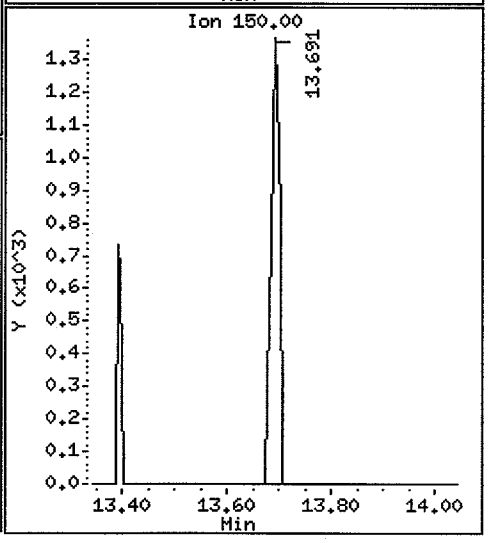


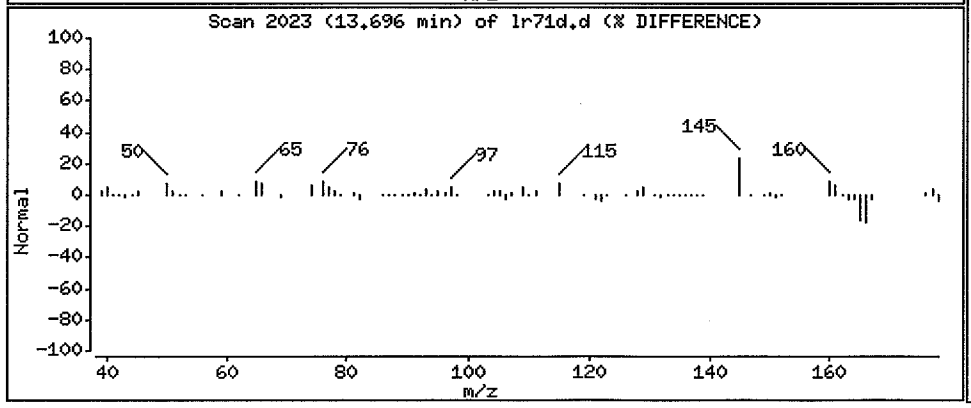












Data File: /chem1/nt6.i/20071018.b/lr71d.d

Date : 18-OCT-2007 16:21

Client ID: AN-SS-07-070928 Instrument: nt6.i

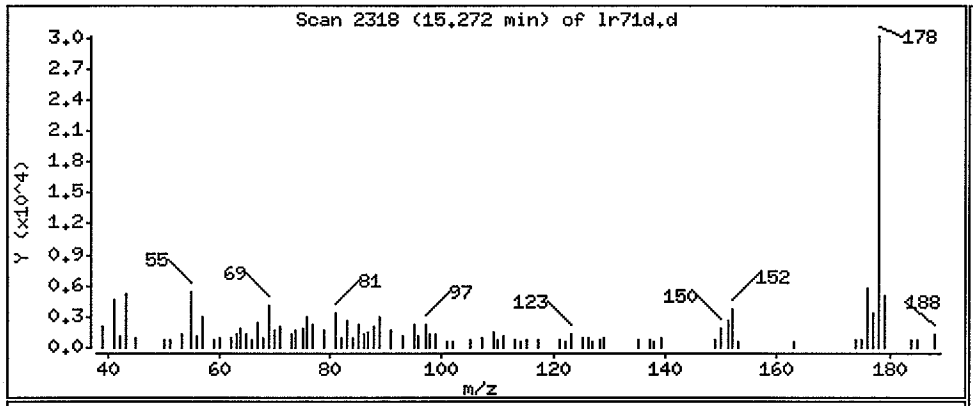
Sample Info: LR71D

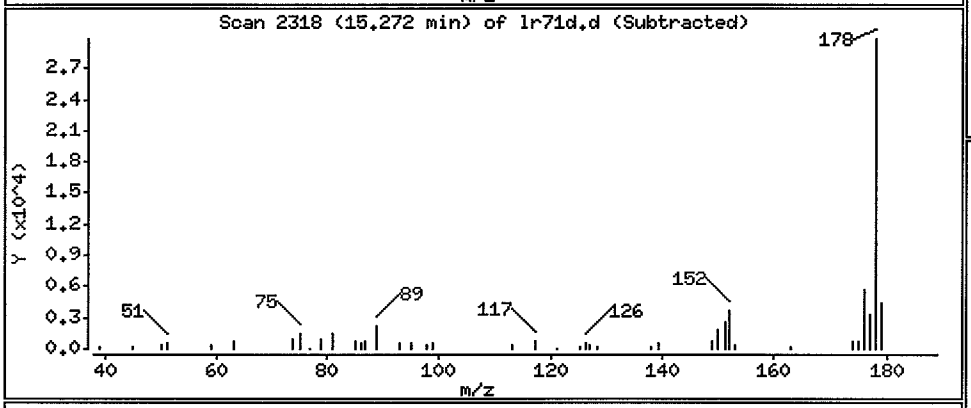
Volume Injected (uL): 1.0 Operator: LJR/VTS

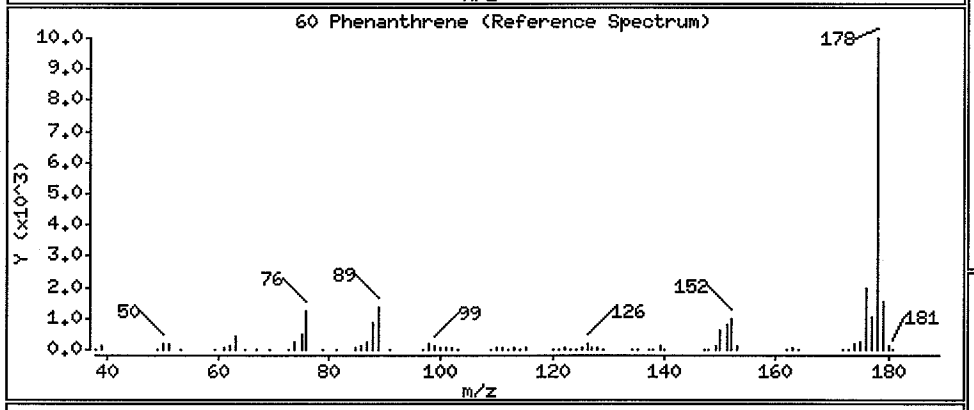
Column phase: ZB-5 Column diameter: 0.32

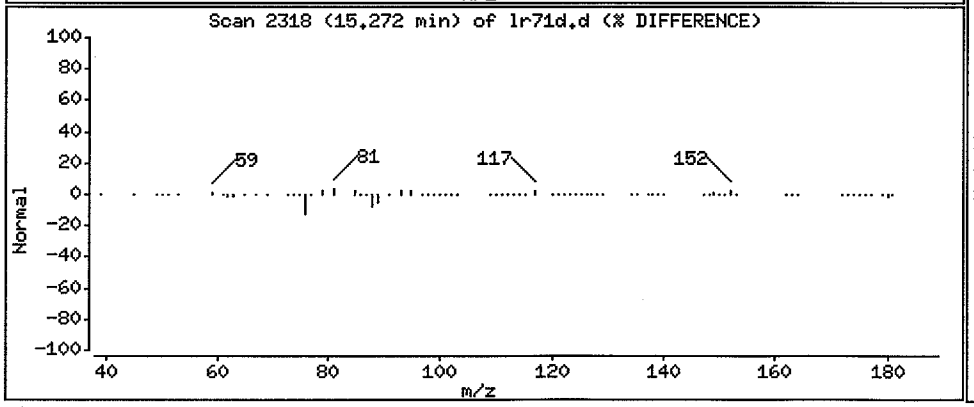
60 Phenanthrene Concentration: 18.83 ug/kg

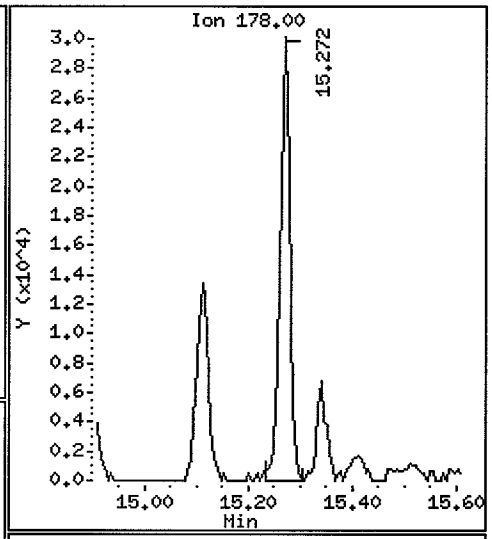
LRL

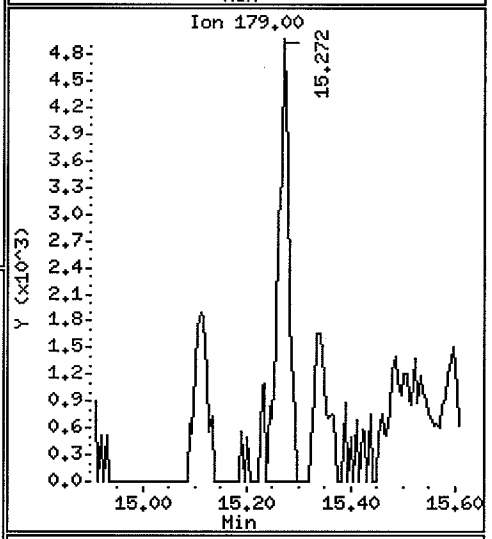


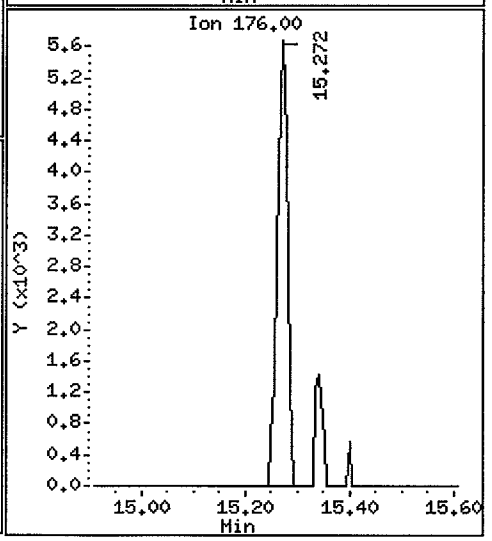












Data File: /chem1/nt6.i/20071018.b/lr71d.d

Date : 18-OCT-2007 16:21

Client ID: AN-SS-07-070928

Instrument: nt6.i

Sample Info: LR71D

Volume Injected (uL): 1.0

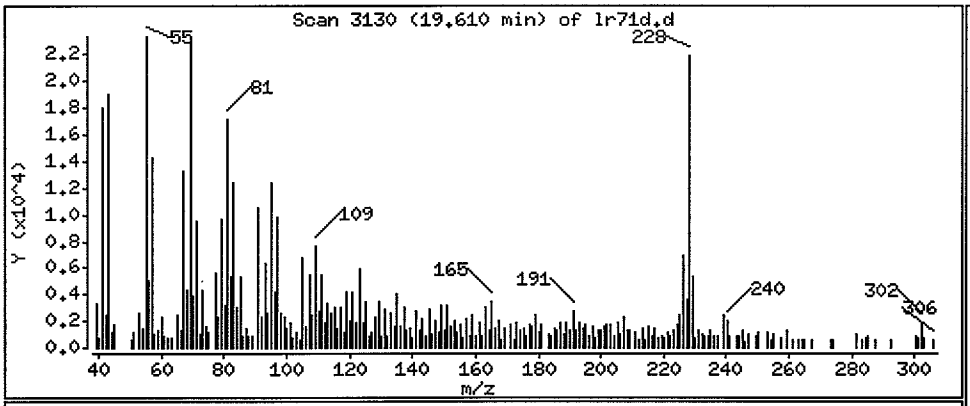
Operator: LJR/VTS

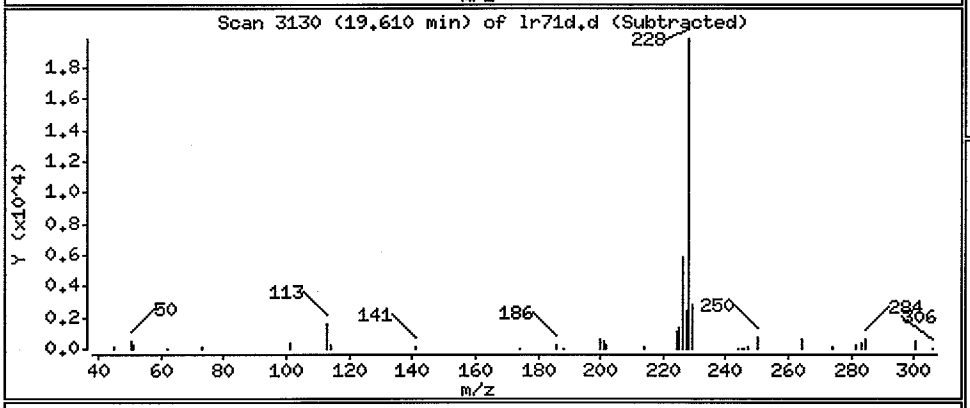
Column phase: ZB-5

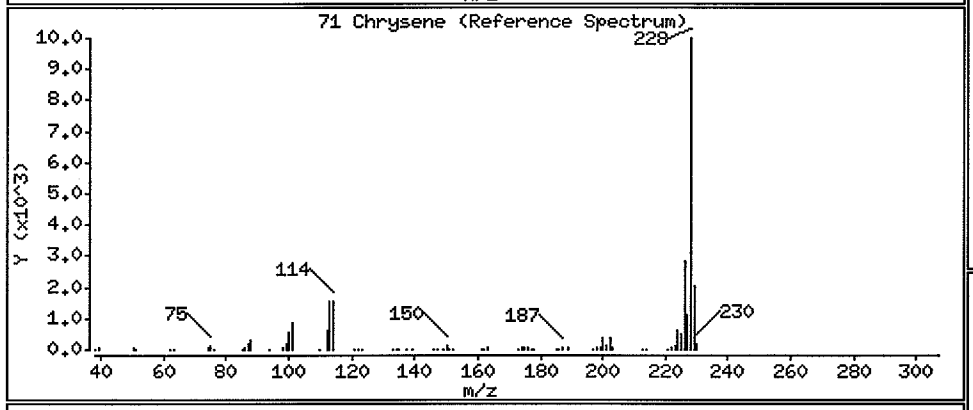
Column diameter: 0.32

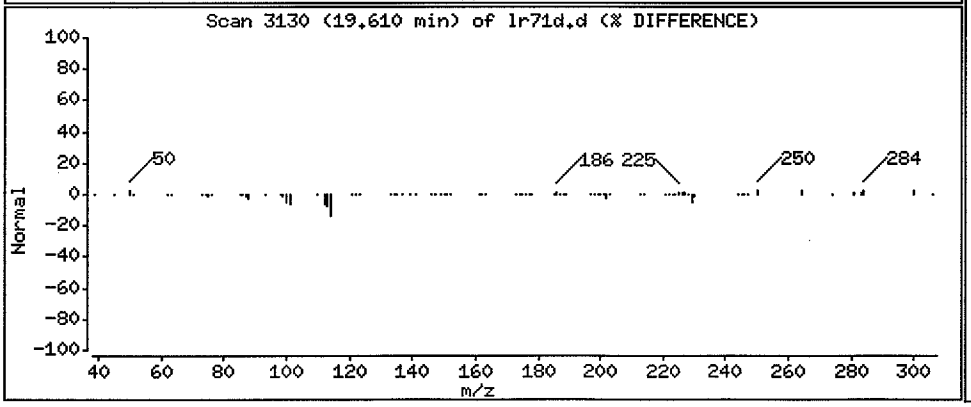
71 Chrysene

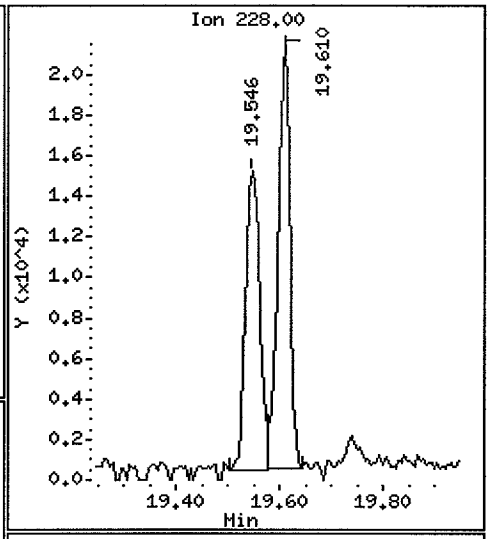
Concentration: 12.28 ug/kg

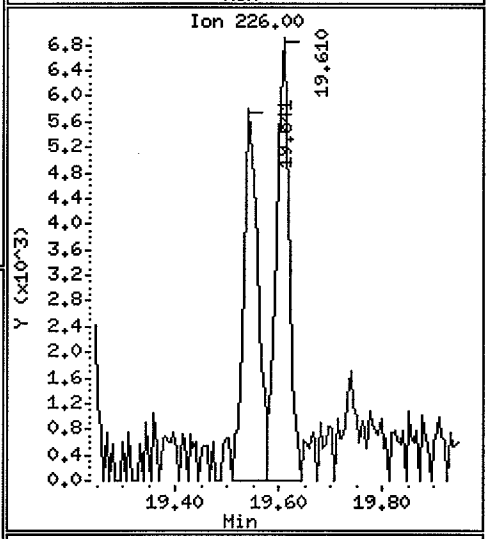


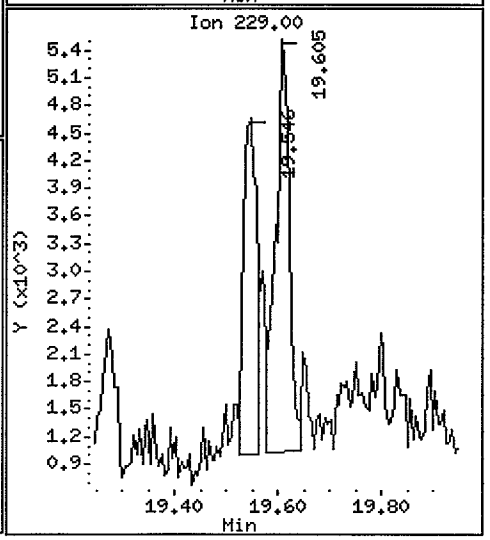












Data File: /chem1/nt6.i/20071018.b/lr71d.d

Date : 18-OCT-2007 16:21

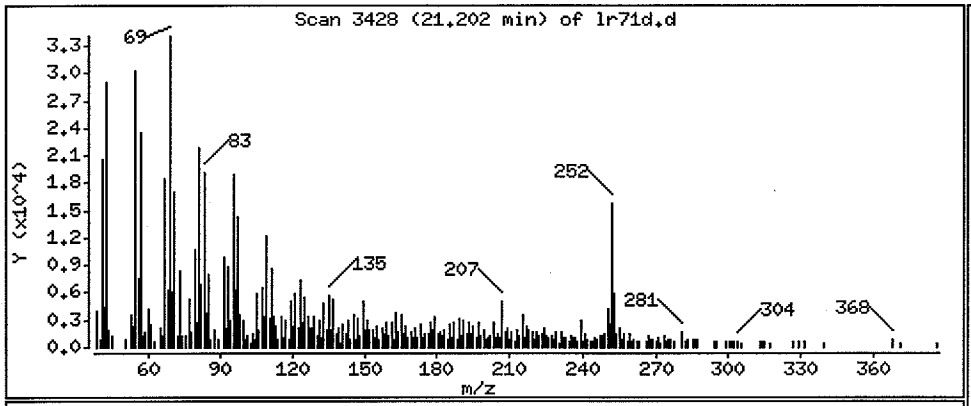
Client ID: AN-SS-07-070928 Instrument: nt6.i

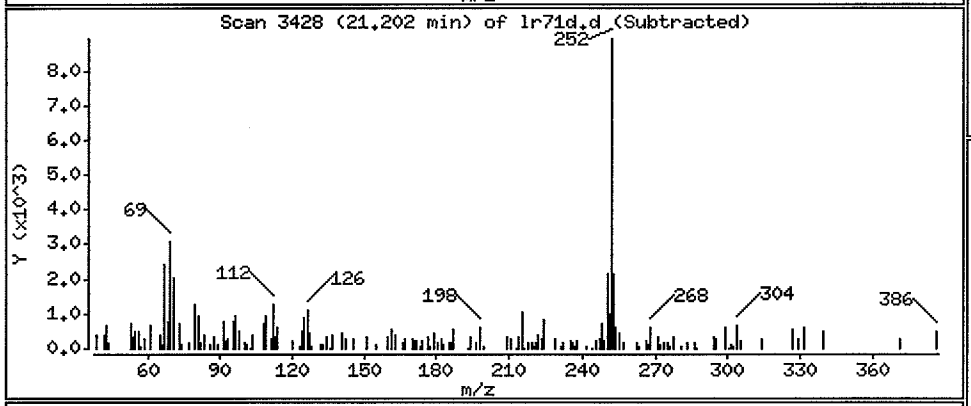
Sample Info: LR71D

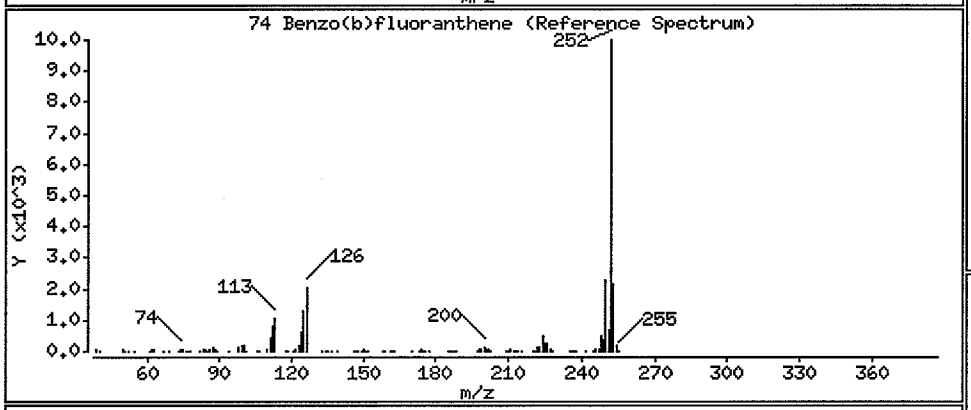
Volume Injected (uL): 1.0 Operator: LJR/VTS

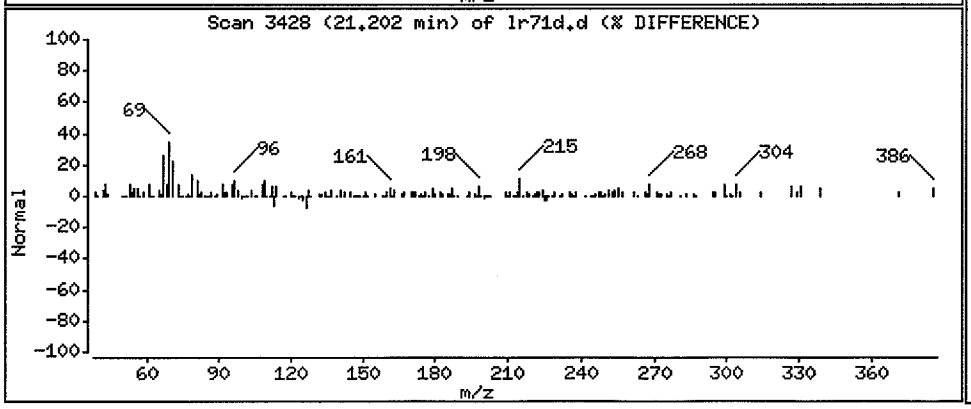
Column phase: ZB-5 Column diameter: 0.32

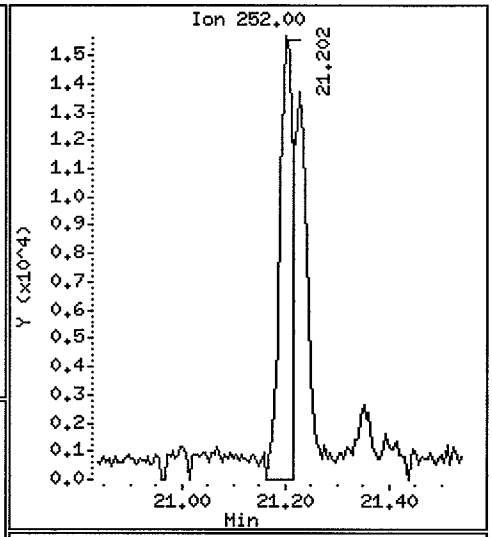
74 Benzo(b)fluoranthene Concentration: 12.58 ug/kg

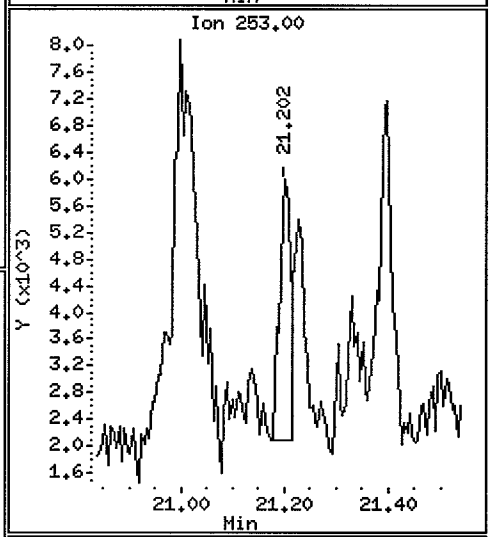


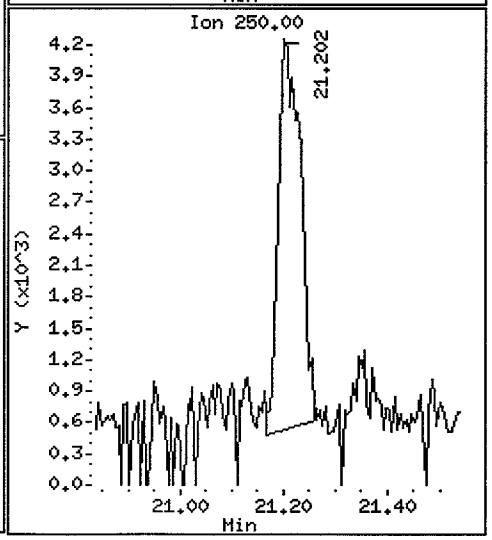












Data File: /chem1/nt6.i/20071018.b/lr71d.d

Date : 18-OCT-2007 16:21

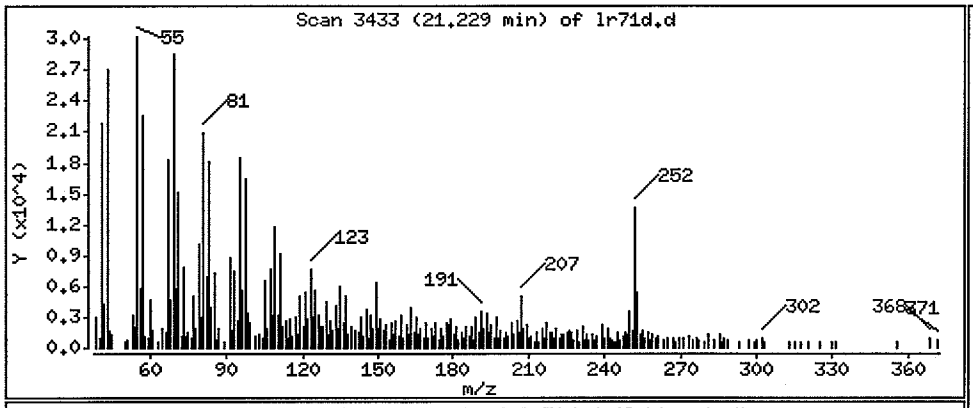
Client ID: AN-SS-07-070928 Instrument: nt6.i

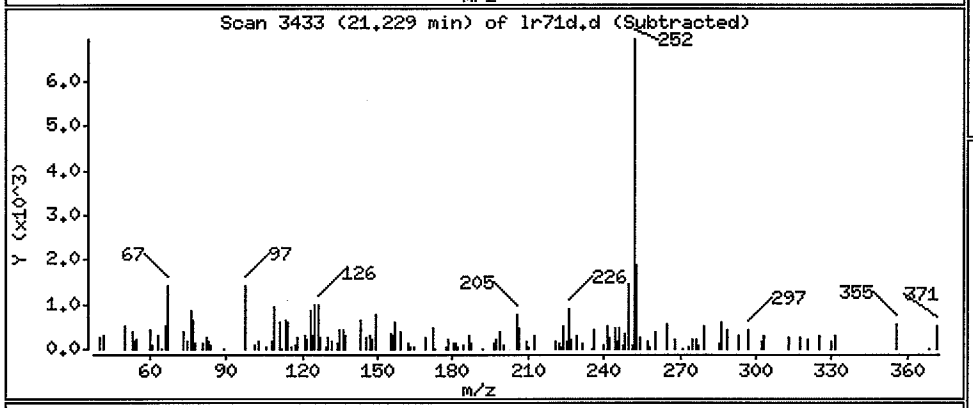
Sample Info: LR71D

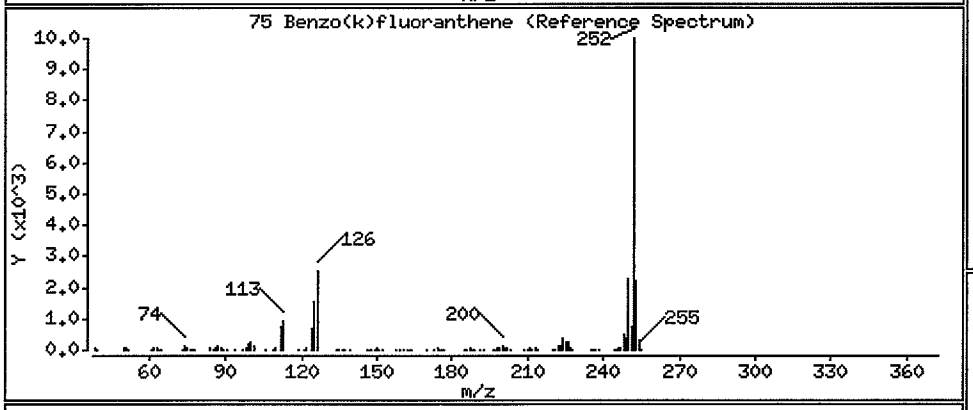
Volume Injected (uL): 1.0 Operator: LJR/VTS

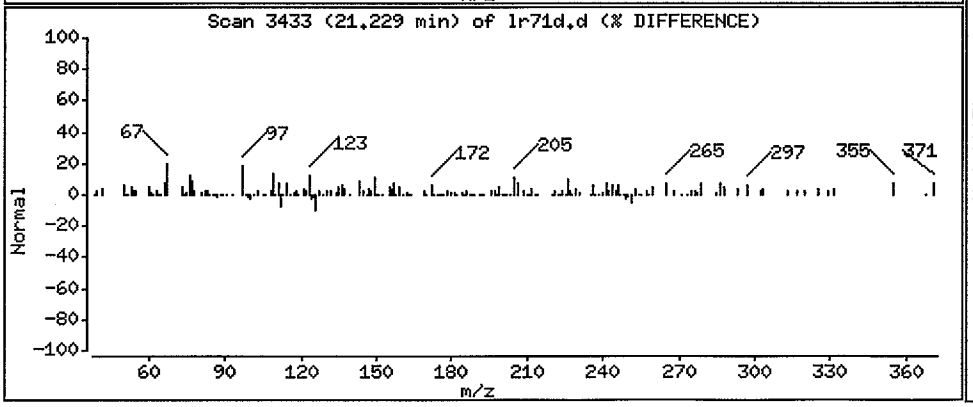
Column phase: ZB-5 Column diameter: 0.32

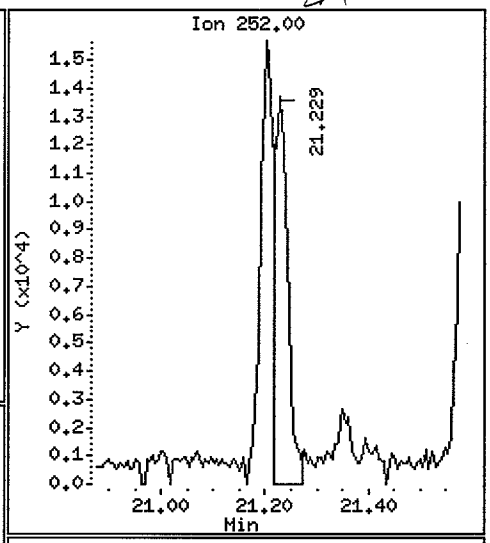
75 Benzo(k)fluoranthene Concentration: 10.08 ug/kg

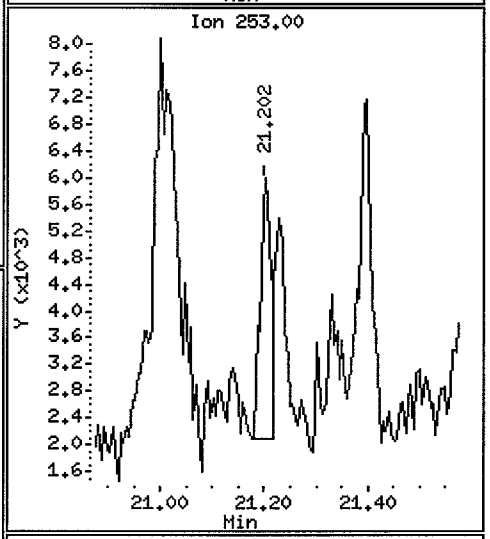


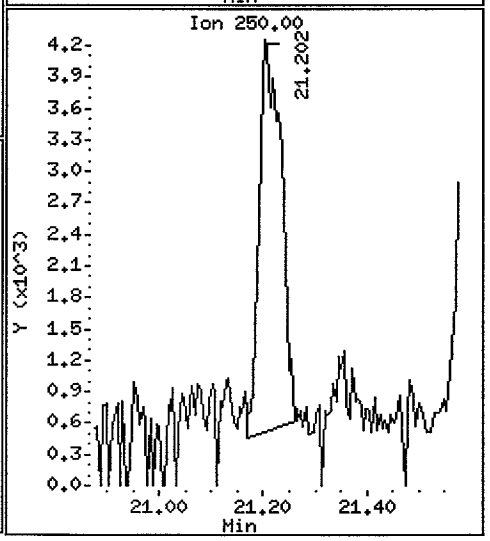












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: AN-SS-07-070928**
Page 1 of 2 **REEXTRACT**

Lab Sample ID: LR71D
LIMS ID: 07-20769
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 18:13
Instrument/Analyst: NT4/LJR
GPC Cleanup: Yes

Sample Amount: 51.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 28.7%

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**	**33**
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	9.9	< 9.9 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	9.9	< 9.9 UJ
87-86-5	Pentachlorophenol	98	< 98 U
85-01-8	**Phenanthrene**	**20**	**28**
120-12-7	Anthracene	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
206-44-0	**Fluoranthene**	**20**	**51**
129-00-0	**Pyrene**	**20**	**41**
85-68-7	Butylbenzylphthalate	20	< 20 U
56-55-3	Benzo(a)anthracene	20	< 20 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**20**	**50 B**
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-07-070928**
 REEXTRACT

Lab Sample ID: LR71D QC Report No: LR71-Anchor Environmental, LLC
LIMS ID: 07-20769 Project: Kimberly Clark Anacortes
Matrix: Sediment NA
Date Analyzed: 11/01/07 18:13

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

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	56.0%	2-Fluorobiphenyl	59.2%
d14-p-Terphenyl	59.2%	d4-1,2-Dichlorobenzene	50.4%
d5-Phenol	60.0%	2-Fluorophenol	46.4%
2,4,6-Tribromophenol	61.1%	d4-2-Chlorophenol	57.1%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20071101.b/lr71d2.d
Lab Smp Id: LR71DRE
Inj Date : 01-NOV-2007 18:13
Operator : VTS Inst ID: nt4.i
Smp Info : LR71DRE
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: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

LJC 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	4.858	4.748	(0.712)	251770	17.3643	347.3
$ 2	Phenol-d5	99	6.514	6.489	(0.955)	364952	22.4876	449.8
3	Phenol	94	6.535	6.505	(0.958)	14570	0.75594 LDL	15.12
$ 5	2-Chlorophenol-d4	132	6.546	6.521	(0.959)	257799	21.4148	428.3
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	6.824	6.820	(1.000)	171353	20.0000	
9	1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10	1,2-Dichlorobenzene-d4	152	7.123	7.114	(1.044)	97644	12.6058	252.1
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	7.700	7.686	(1.128)	22072	1.70308	34.06
$	18 Nitrobenzene-d5	82	7.775	7.771	(0.877)	234851	14.0032	280.1
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	8.870	8.872	(1.000)	635791	20.0000	
	28 Naphthalene	128	8.896	8.899	(1.003)	24557	0.62914 LDL	12.58
	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	10.675	10.677	(0.914)	326596	14.8215	296.4
	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	11.685	11.682	(1.000)	319126	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	12.962	12.953	(1.109)	63018	22.9393	458.8
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	13.998	14.000	(1.000)	452619	20.0000	
	60 Phenanthrene	178	14.036	14.032	(1.003)	44665	1.42785	28.56
	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	15.932	15.923	(1.138)	87953	2.59700	51.94
	65 Pyrene	202	16.269	16.260	(0.892)	75278	2.08364	41.67
$	66 Terphenyl-d14	244	16.648	16.634	(0.913)	308469	14.7901	295.8
	67 Butylbenzylphthalate	149	Compound Not Detected.					
	68 Benzo(a)anthracene	228	18.202	18.199	(0.999)	25165	0.75109 LDL	15.02
*	69 Chrysene-d12	240	18.229	18.221	(1.000)	450806	20.0000	
	70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71 Chrysene	228	18.261	18.258	(1.002)	29669	0.90023 LDL	18.00
	72 bis(2-Ethylhexyl)phthalate	149	18.587	18.578	(0.953)	50938	2.54479 B	50.90
*	134 Di-n-octylphthalate-d4	153	19.506	19.503	(1.000)	635306	20.0000	
	73 Di-n-octylphthalate	149	Compound Not Detected.					
	74 Benzo(b)fluoranthene	252	19.821	19.818	(0.975)	26267	0.78400 LDL	15.68
	75 Benzo(k)fluoranthene	252	19.842	19.850	(0.976)	22358	0.63171	12.63(M)
	76 Benzo(a)pyrene	252	20.254	20.245	(0.996)	17975	0.60243	12.05(M)
*	77 Perylene-d12	264	20.339	20.325	(1.000)	492085	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: lr71d2.d
Lab Smp Id: LR71DRE
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	171353	17.86
27 Naphthalene-d8	530525	265262	1061050	635791	19.84
42 Acenaphthene-d10	280701	140350	561402	319126	13.69
59 Phenanthrene-d10	391934	195967	783868	452619	15.48
69 Chrysene-d12	354658	177329	709316	450806	27.11
134 Di-n-octylphthala	506314	253157	1012628	635306	25.48
77 Perylene-d12	400782	200391	801564	492085	22.78

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.82	6.32	7.32	6.82	0.05
27 Naphthalene-d8	8.87	8.37	9.37	8.87	-0.02
42 Acenaphthene-d10	11.68	11.18	12.18	11.68	0.03
59 Phenanthrene-d10	14.00	13.50	14.50	14.00	-0.02
69 Chrysene-d12	18.22	17.72	18.72	18.23	0.05
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	0.07

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.

Data File: /chem3/nt4.i/20071101.b/lr71d2.d
Report Date: 02-Nov-2007 11:41

Analytical Resources, Inc.

RECOVERY REPORT

Client Name:
Client SDG: 20071101
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: LR71DRE
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	347.3	46.30	11-84
$ 2 Phenol-d5	750.0	449.8	59.97	25-86
$ 5 2-Chlorophenol-d4	750.0	428.3	57.11	23-91
$ 10 1,2-Dichlorobenzen	500.0	252.1	50.42	24-90
$ 18 Nitrobenzene-d5	500.0	280.1	56.01	26-88
$ 36 2-Fluorobiphenyl	500.0	296.4	59.29	34-91
$ 55 2,4,6-Tribromophen	750.0	458.8	61.17	25-107
$ 66 Terphenyl-d14	500.0	295.8	59.16	22-100