

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG092316\
 Data File : BG024097.D
 Acq On : 23 Sep 2016 21:20
 Operator : UM/SJ
 Sample : H4818-01
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 LOD-SOIL2016-01-QT4

Manual Integrations
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Quant Time: Sep 26 14:36:19 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG092316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 23 15:35:28 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.04	152	35604	20.00	ng	0.00
21) Naphthalene-d8	10.87	136	149918	20.00	ng	0.00
38) Acenaphthene-d10	14.72	164	134237	20.00	ng	0.00
63) Phenanthrene-d10	17.48	188	352009	20.00	ng	0.00
75) Chrysene-d12	21.79	240	390316	20.00	ng	0.00
86) Perylene-d12	25.13	264	381234	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.59	112	310209	150.95	ng	0.00
7) Phenol-d6	7.21	99	470626	136.10	ng	0.00
23) Nitrobenzene-d5	9.22	82	342078	89.93	ng	0.00
41) 2,4,6-Tribromophenol	16.22	330	259084	134.27	ng	0.00
44) 2-Fluorobiphenyl	13.33	172	713129	89.30	ng	0.00
78) Terphenyl-d14	20.09	244	1489361	78.13	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.44	88	3863	4.91	ng	Qvalue # 76
3) Pyridine	3.87	79	10846m	3.90	ng	
4) n-Nitrosodimethylamine	3.78	42	4893	3.47	ng	# 46
32) Benzoic acid	10.37	122	2104m	3.37	ng	
33) 4-Chloroaniline	11.07	127	11490	3.39	ng	# 89
35) Caprolactam	11.85	113	3904m	3.81	ng	
40) Hexachlorocyclopentadiene	12.87	237	818	4.16	ng	85
55) 4-Nitrophenol	15.07	139	1030	5.91	ng	# 18
61) 4-Nitroaniline	15.84	138	7557m	3.38	ng	
64) 4,6-Dinitro-2-methylphenol	15.90	198	5430	2.22	ng	# 81
69) Pentachlorophenol	17.17	266	4034	5.18	ng	# 78

(#) = qualifier out of range (m) = manual integration (+) = signals summed

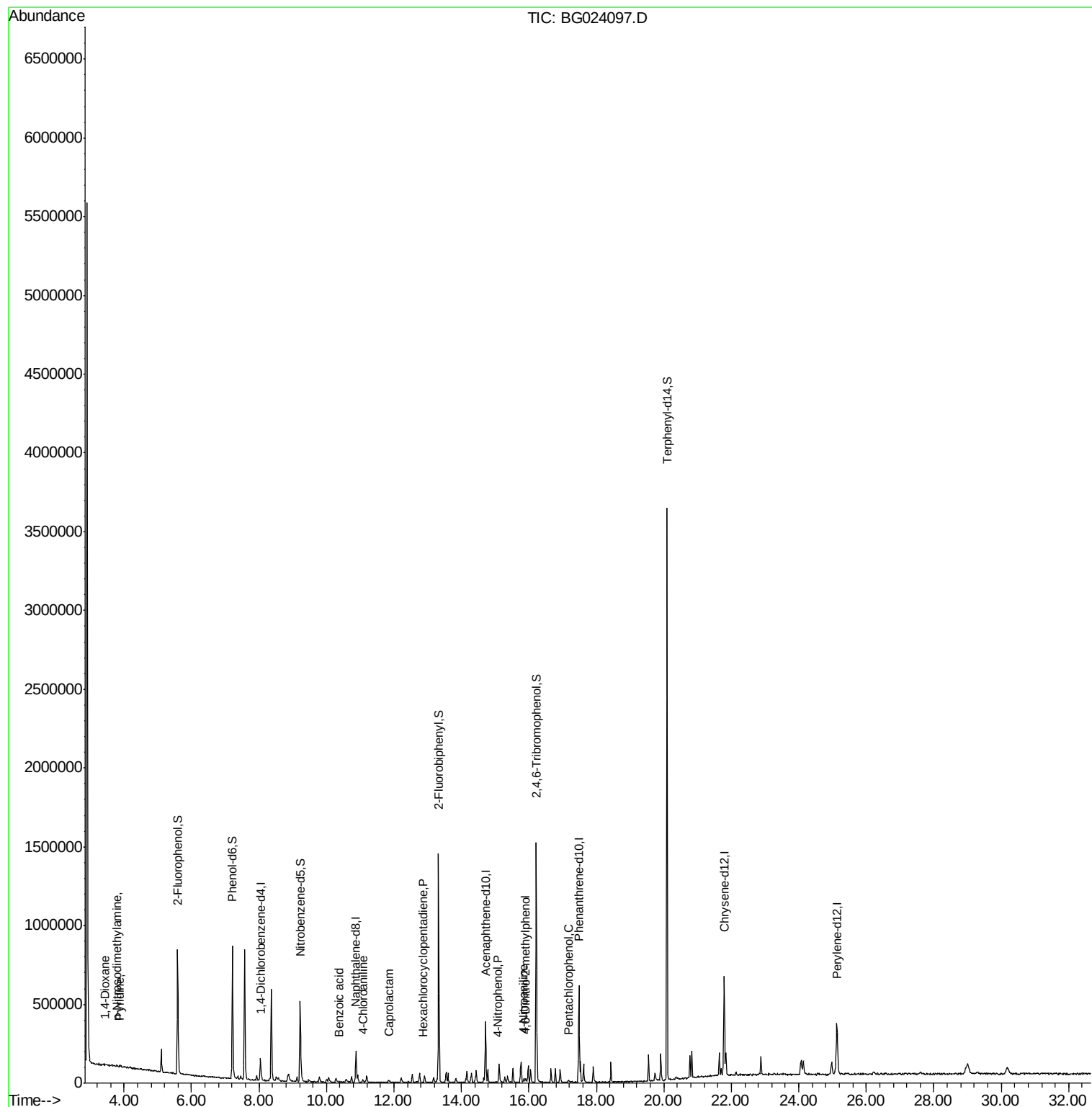
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG092316\
Data File : BG024097.D
Acq On : 23 Sep 2016 21:20
Operator : UM/SJ
Sample : H4818-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

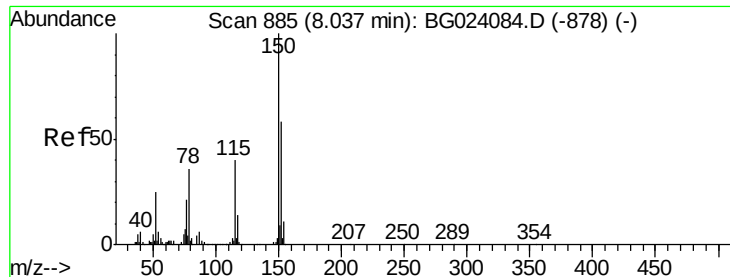
Instrument :
BNA_G
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LOD-SOIL2016-01-QT4

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Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG092316.M
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QLast Update : Fri Sep 23 15:35:28 2016
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.04 min Scan# 886

Delta R.T. 0.01 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

Instrument :

BNA_G

ClientSampleId :

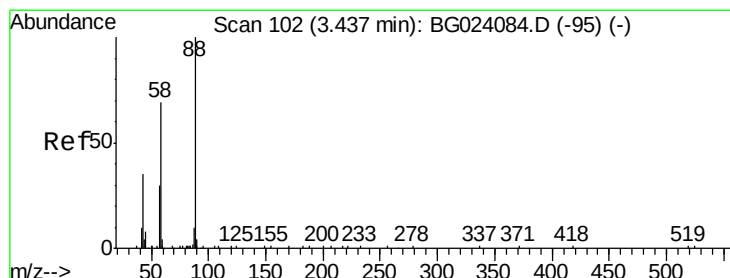
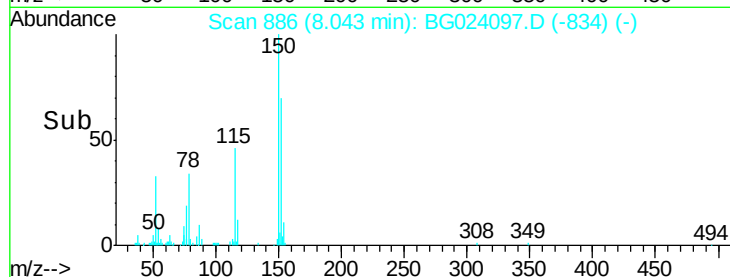
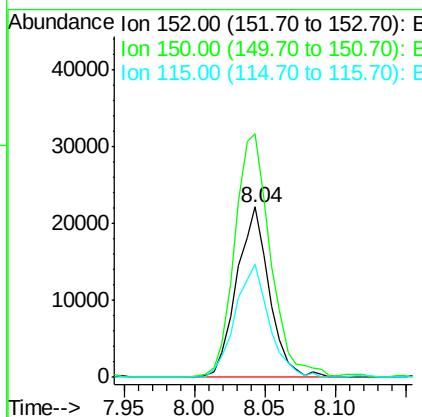
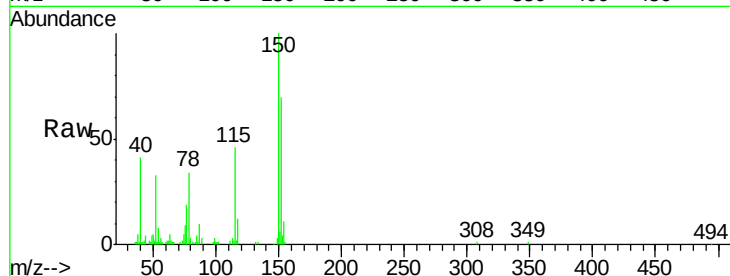
LOD-SOIL2016-01-QT4

Tgt Ion:	152	Resp:	35604
Ion Ratio	Lower	Upper	
152	100		
150	143.1	144.7	217.1#
115	66.1	64.0	96.0

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#2

1,4-Dioxane

Concen: 4.91 ng

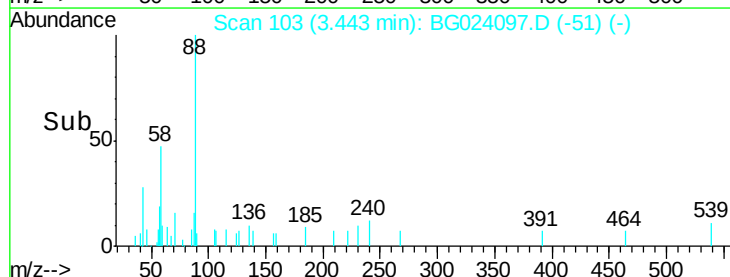
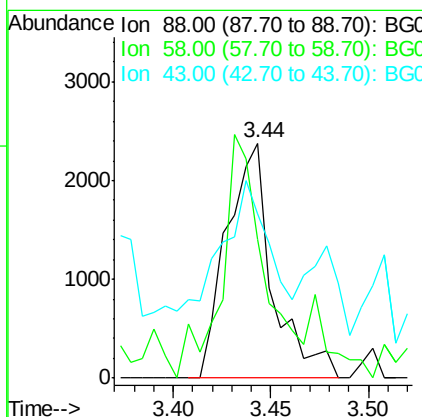
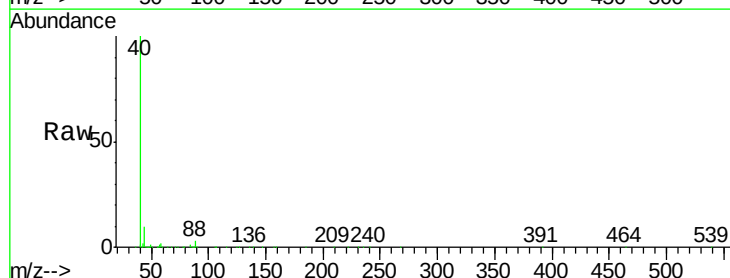
RT: 3.44 min Scan# 103

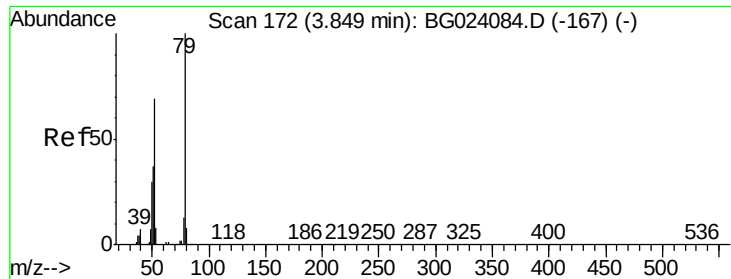
Delta R.T. 0.01 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

Tgt Ion:	88	Resp:	3863
Ion Ratio	Lower	Upper	
88	100		
58	95.8	60.4	90.6#
43	53.4	31.1	46.7#





#3

Pyridine

Concen: 3.90 ng m

RT: 3.87 min Scan# 175

Delta R.T. 0.02 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

Instrument :

BNA_G

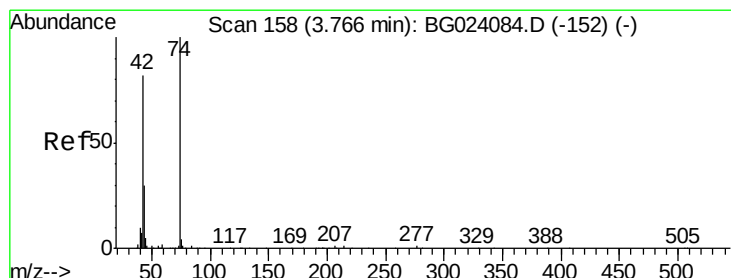
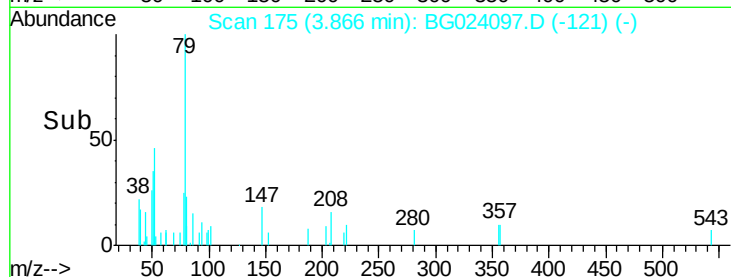
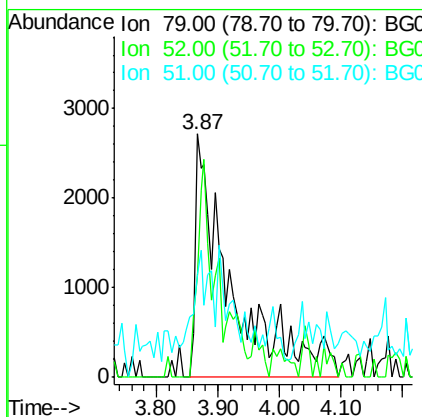
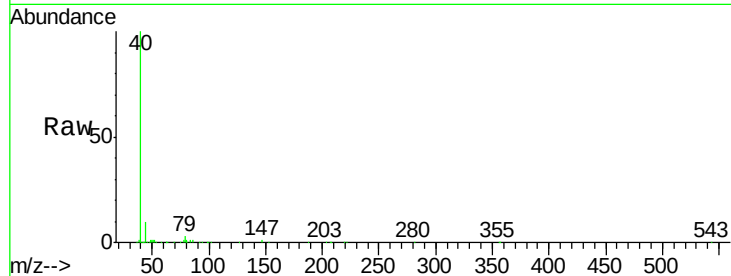
ClientSampleId :

LOD-SOIL2016-01-QT4

Tgt Ion:	79	Resp:	10846
Ion Ratio	Lower	Upper	
79	100		
52	41.6	51.8	77.8#
51	42.4	32.7	49.1

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#4

n-Nitrosodimethylamine

Concen: 3.47 ng

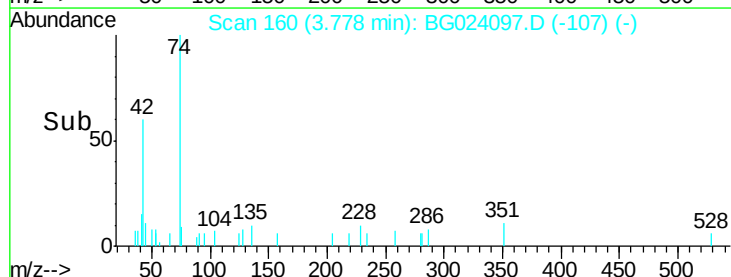
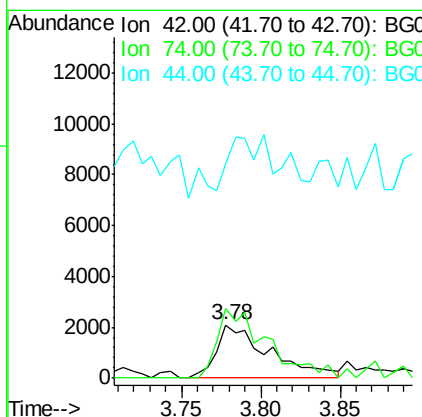
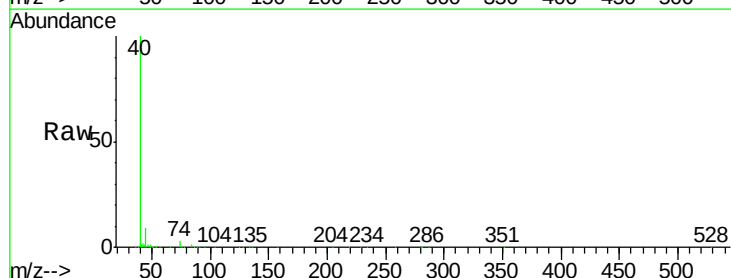
RT: 3.78 min Scan# 160

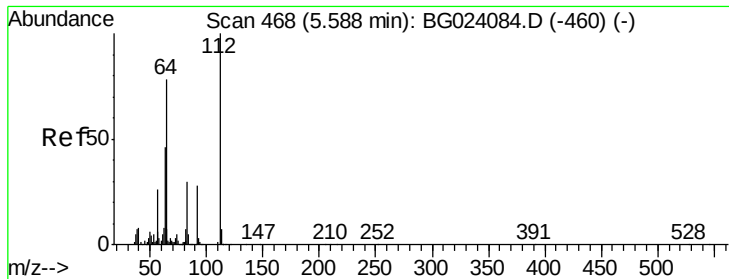
Delta R.T. 0.01 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

Tgt Ion:	42	Resp:	4893
Ion Ratio	Lower	Upper	
42	100		
74	130.3	100.6	150.8
44	400.0	4.5	6.7#





#5

2-Fluorophenol

Concen: 150.95 ng

RT: 5.59 min Scan# 468

Delta R.T. 0.00 min

Lab File: BG024097.D

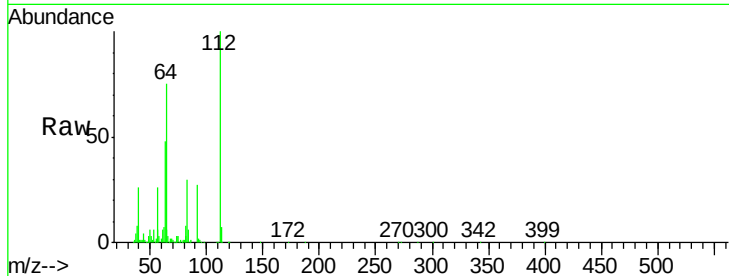
Acq: 23 Sep 2016 21:20

Instrument :

BNA_G

ClientSampleId :

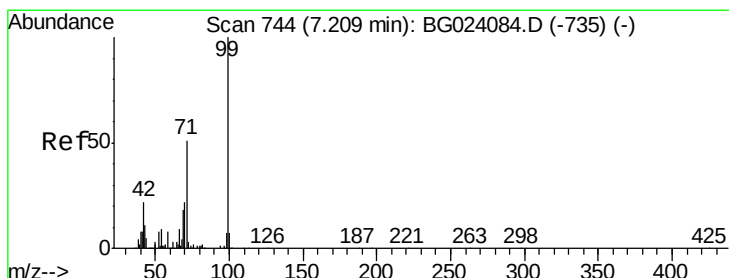
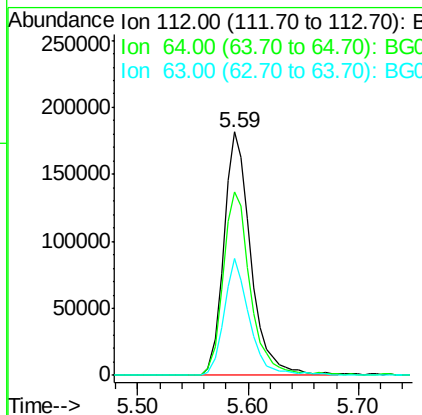
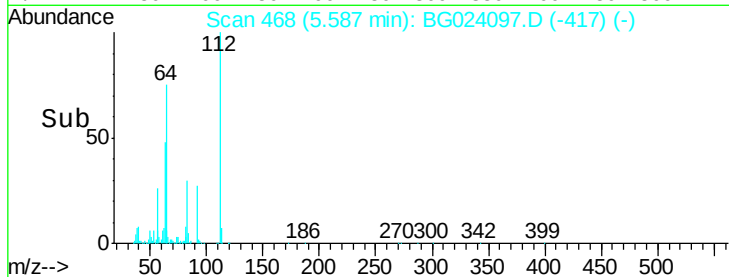
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Tgt Ion	Ratio	Resp	Lower	Upper
112	100	310209		
64	75.4	59.0	88.4	
63	48.1	37.8	56.8	

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#7

Phenol-d6

Concen: 136.10 ng

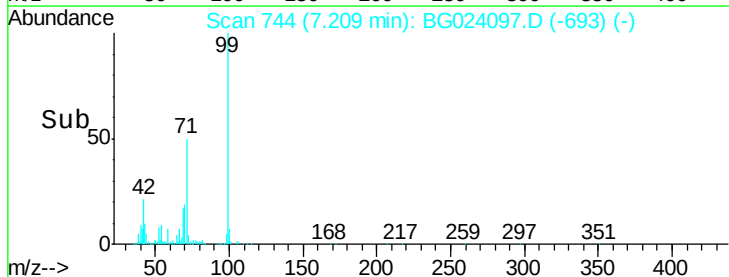
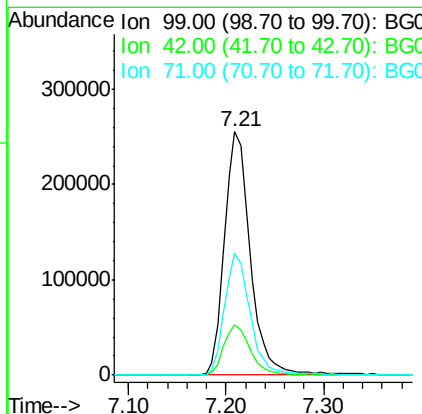
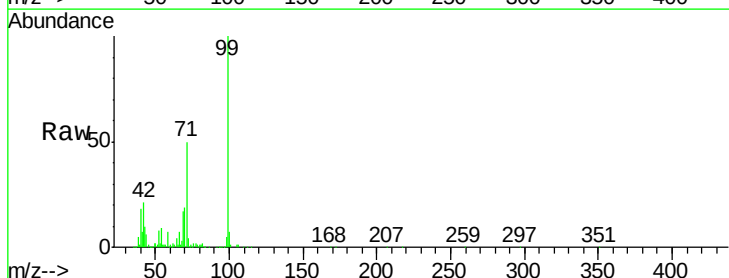
RT: 7.21 min Scan# 744

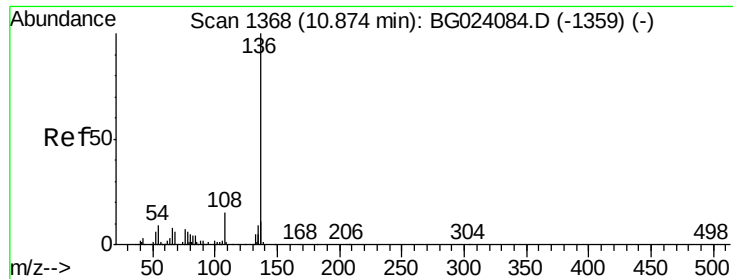
Delta R.T. -0.00 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

Tgt Ion	Ratio	Resp	Lower	Upper
99	100	470626		
42	20.9	17.8	26.6	
71	50.1	41.5	62.3	





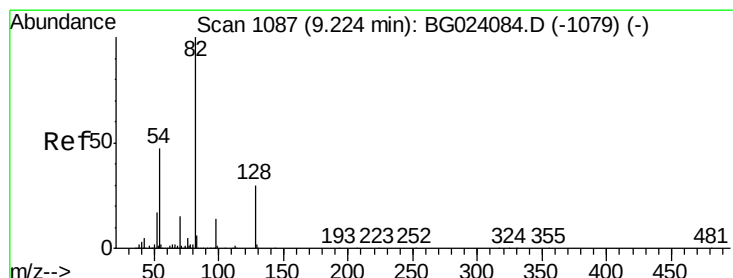
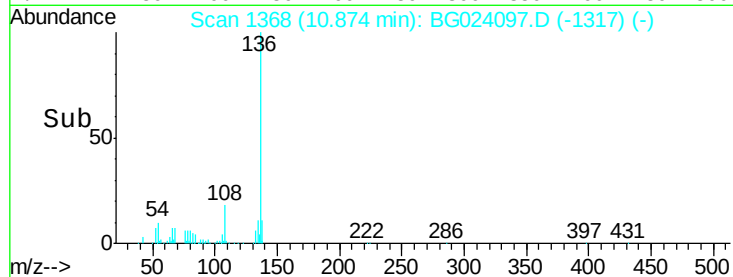
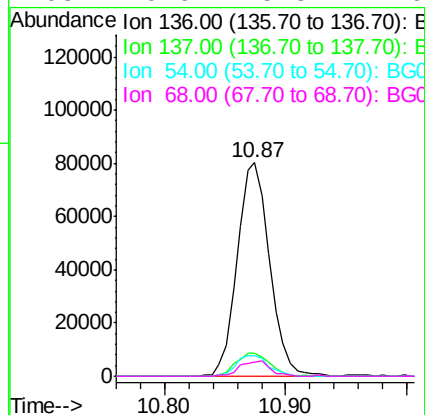
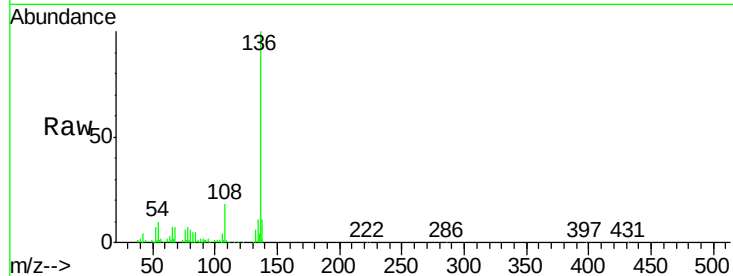
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 10.87 min Scan# 1368
Delta R.T. -0.00 min
Lab File: BG024097.D
Acq: 23 Sep 2016 21:20

Instrument :
BNA_G
ClientSampleId :
LOD-SOIL2016-01-QT4

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	149918		
137	10.6	9.6	14.4	
54	9.7	7.3	10.9	
68	6.6	5.3	7.9	

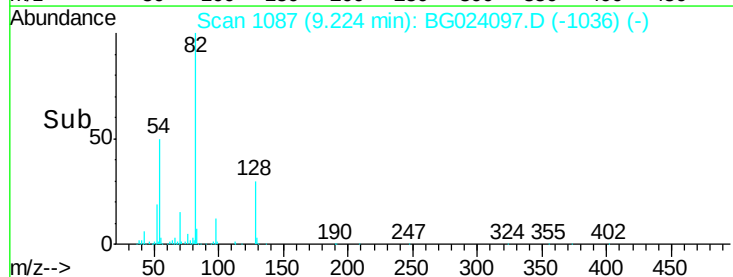
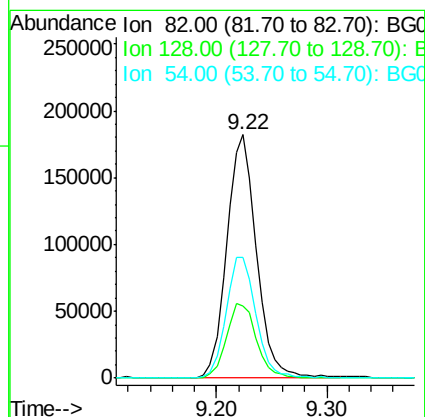
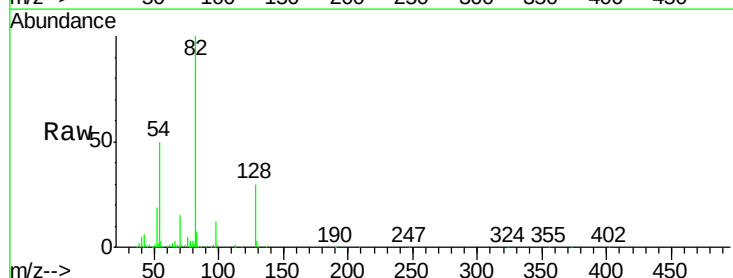
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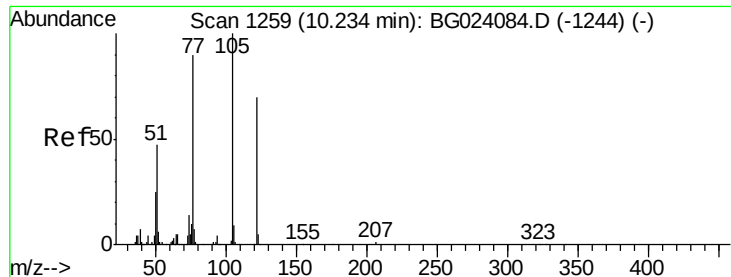
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#23
Nitrobenzene-d5
Concen: 89.93 ng
RT: 9.22 min Scan# 1087
Delta R.T. -0.00 min
Lab File: BG024097.D
Acq: 23 Sep 2016 21:20

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	342078		
128	29.5	24.4	36.6	
54	49.7	41.4	62.0	





#32

Benzoic acid

Concen: 3.37 ng m

RT: 10.37 min Scan# 1282

Delta R.T. 0.14 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

Instrument :

BNA_G

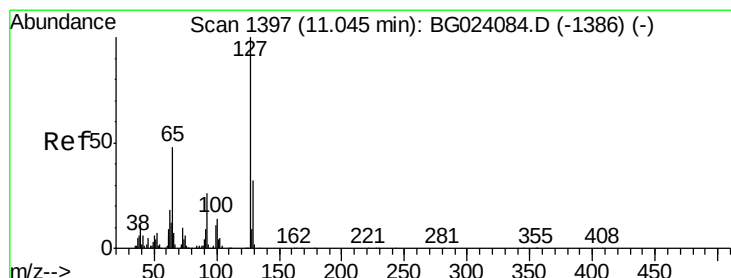
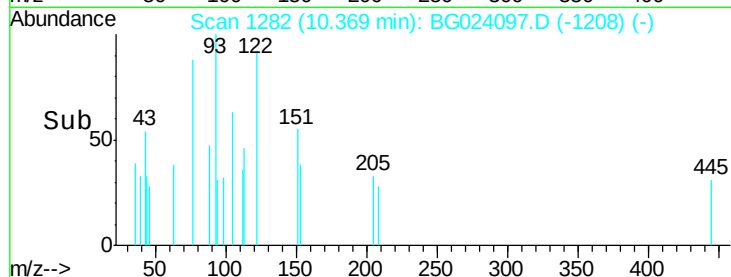
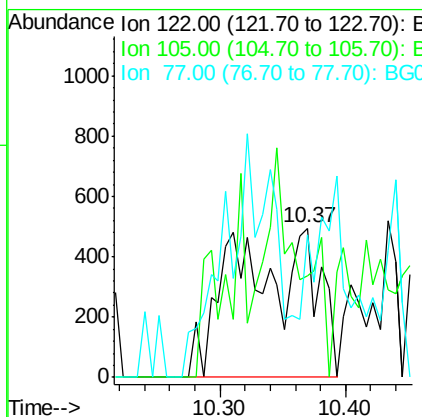
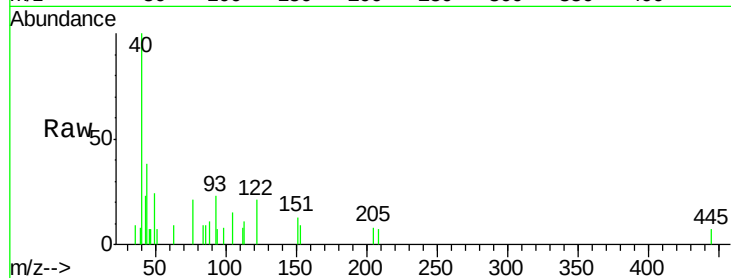
ClientSampleId :

LOD-SOIL2016-01-QT4

Tgt Ion	Ratio	Lower	Upper
122	100		
105	67.9	117.2	157.2#
77	95.8	109.2	149.2#

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#33

4-Chloroaniline

Concen: 3.39 ng

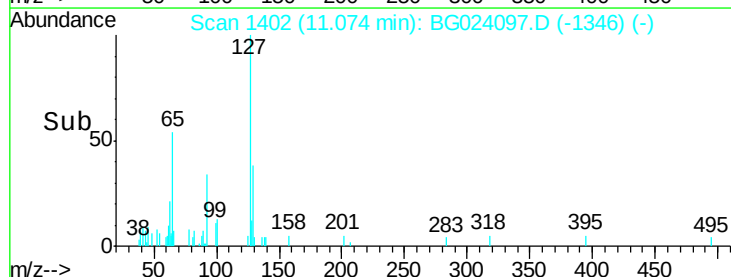
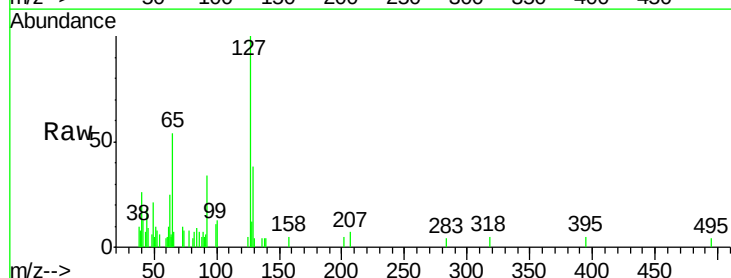
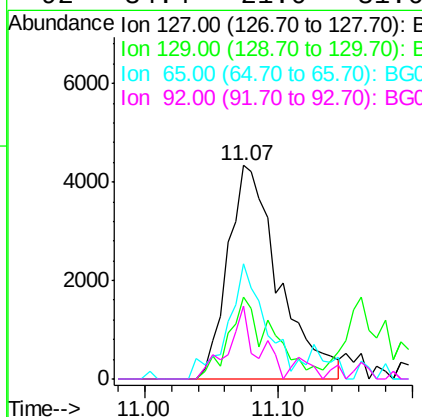
RT: 11.07 min Scan# 1402

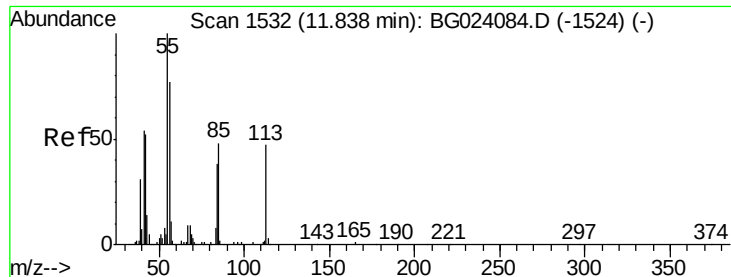
Delta R.T. 0.03 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

Tgt Ion	Ratio	Lower	Upper
127	100		
129	38.2	27.9	41.9
65	53.9	36.8	55.2
92	34.4	21.0	31.6#





#35

Caprolactam

Concen: 3.81 ng m

RT: 11.85 min Scan# 1534

Delta R.T. 0.01 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

Instrument :

BNA_G

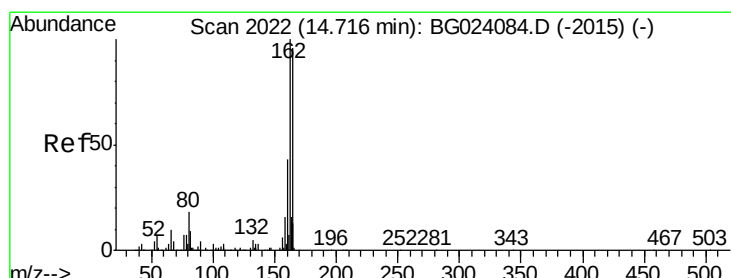
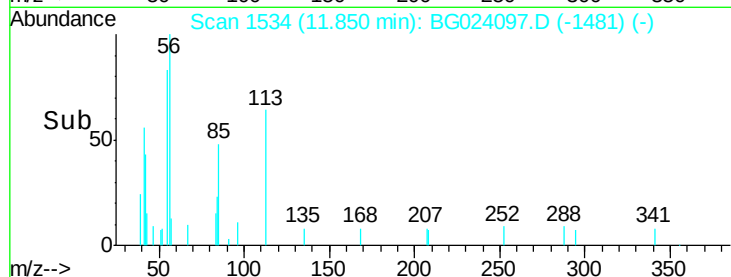
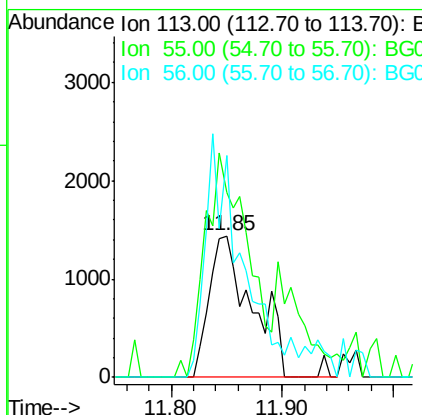
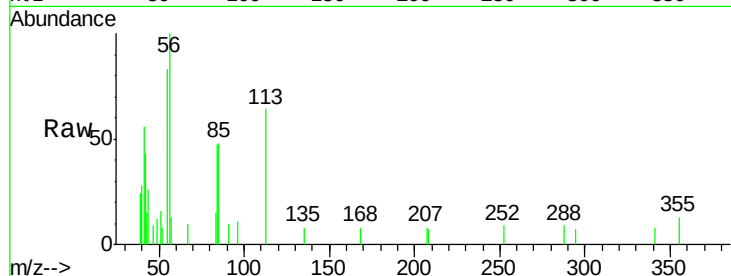
ClientSampleId :

LOD-SOIL2016-01-QT4

Tgt Ion	Ratio	Lower	Upper
113	100		
55	130.2	154.5	194.5#
56	156.8	125.1	165.1

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#38

Acenaphthene-d10

Concen: 20.00 ng

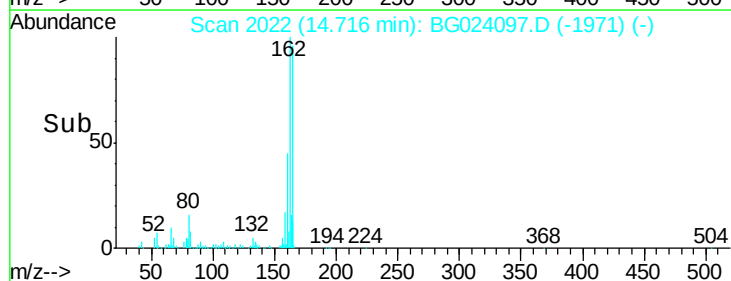
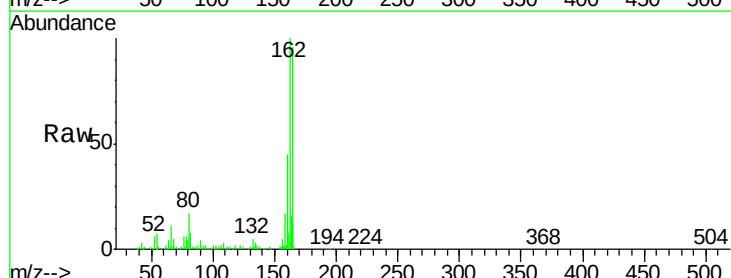
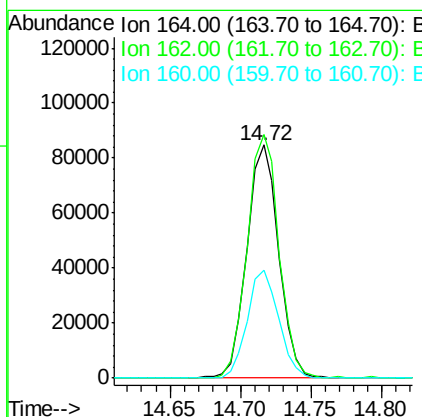
RT: 14.72 min Scan# 2022

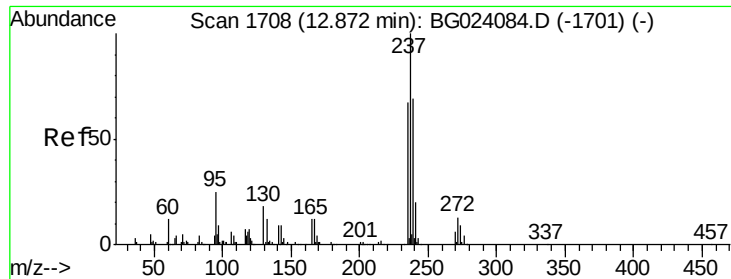
Delta R.T. -0.00 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.4	87.7	131.5
160	46.5	37.2	55.8





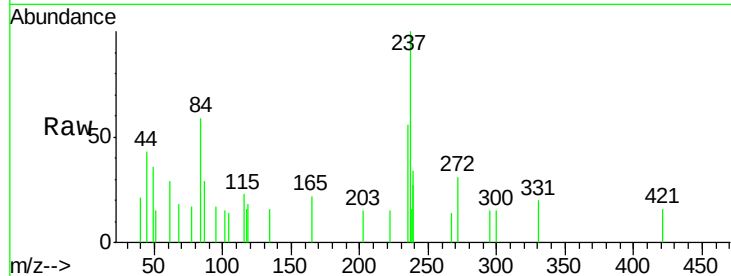
#40
Hexachlorocyclopentadiene
Concen: 4.16 ng
RT: 12.87 min Scan# 1708
Delta R.T. 0.00 min
Lab File: BG024097.D
Acq: 23 Sep 2016 21:20

Instrument :
BNA_G
ClientSampleId :
LOD-SOIL2016-01-QT4

Tgt Ion	Ratio	Resp	Lower	Upper
237	100	818		
235	56.4		43.1	83.1
272	30.8		0.0	30.9

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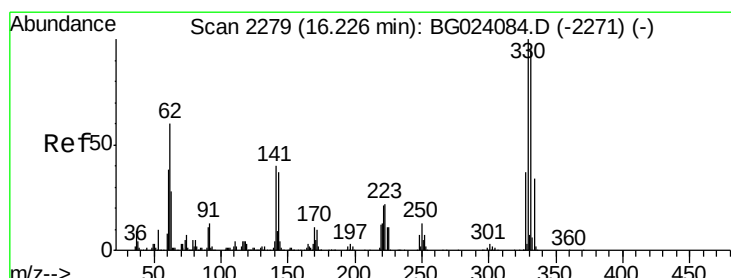
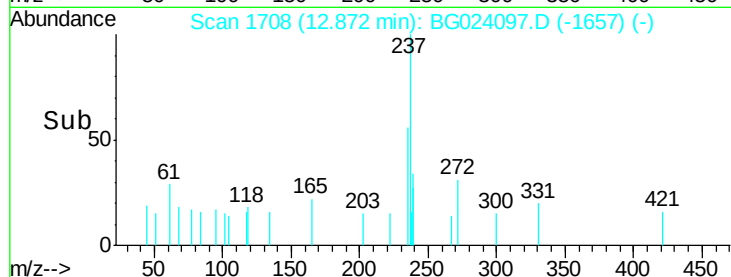
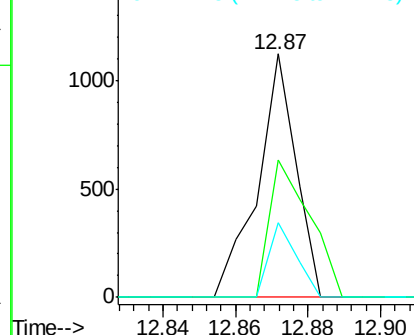


Abundance

Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E



#41
2,4,6-Tribromophenol
Concen: 134.27 ng
RT: 16.22 min Scan# 2278
Delta R.T. -0.01 min
Lab File: BG024097.D
Acq: 23 Sep 2016 21:20

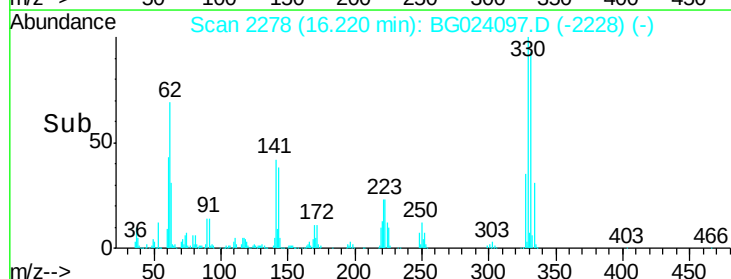
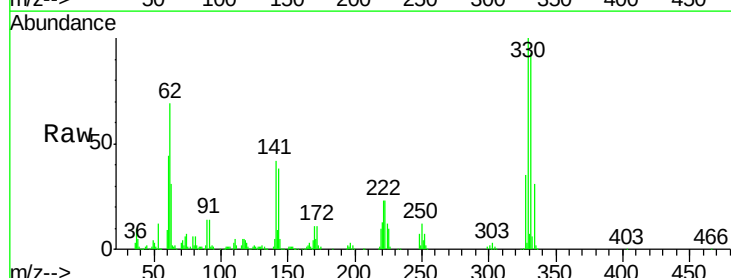
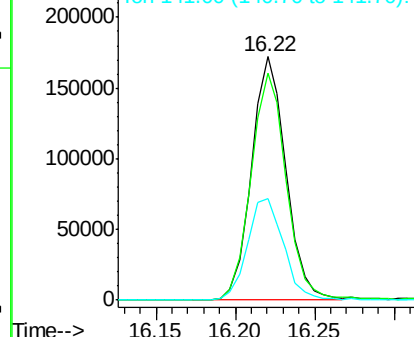
Tgt Ion	Ratio	Resp	Lower	Upper
330	100	259084		
332	96.5		77.4	116.2
141	44.3		31.7	47.5

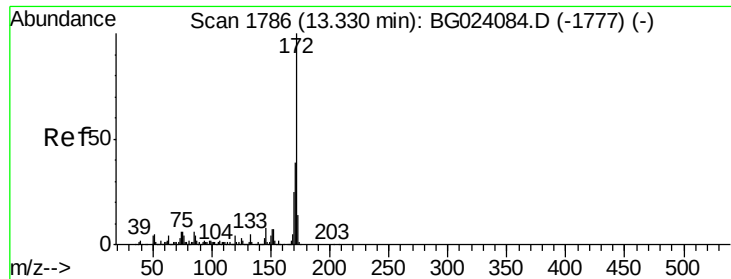
Abundance

Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





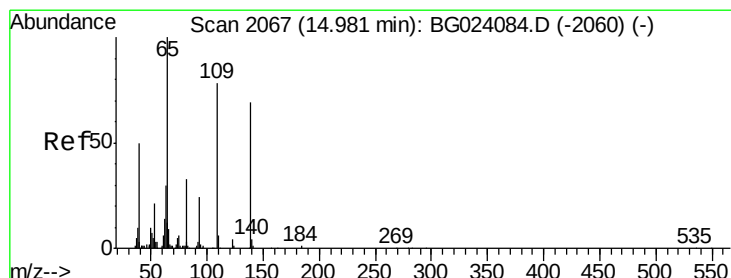
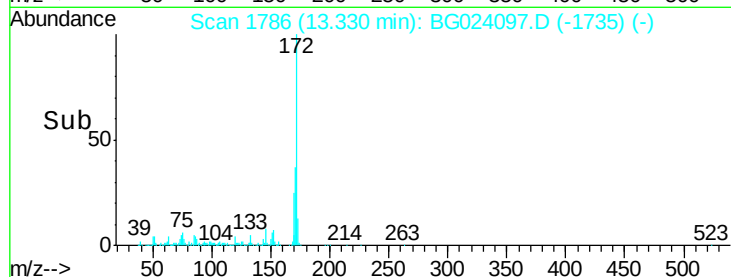
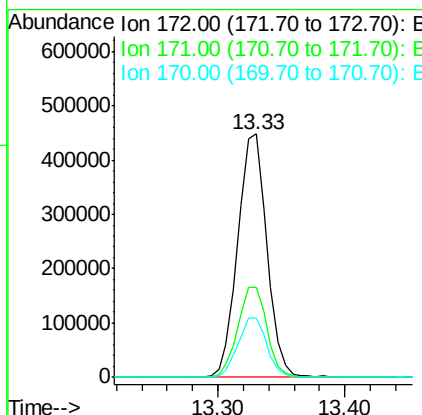
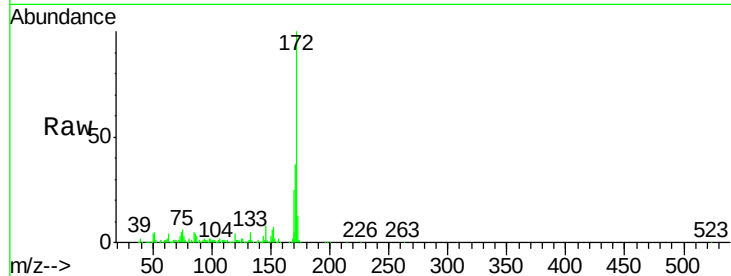
#44
 2-Fluorobiphenyl
 Concen: 89.30 ng
 RT: 13.33 min Scan# 1786
 Delta R.T. -0.00 min
 Lab File: BG024097.D
 Acq: 23 Sep 2016 21:20

Instrument :
 BNA_G
 ClientSampleId :
 LOD-SOIL2016-01-QT4

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.9	31.6	47.4
170	24.6	21.3	31.9

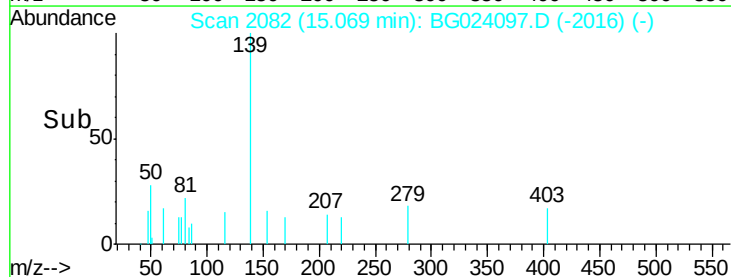
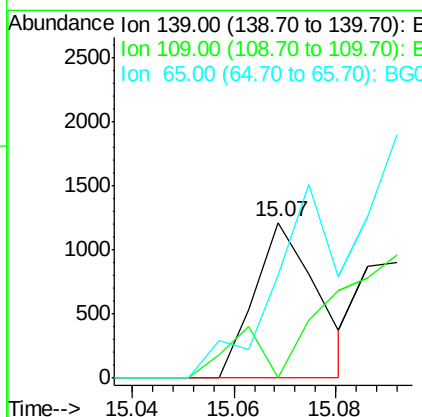
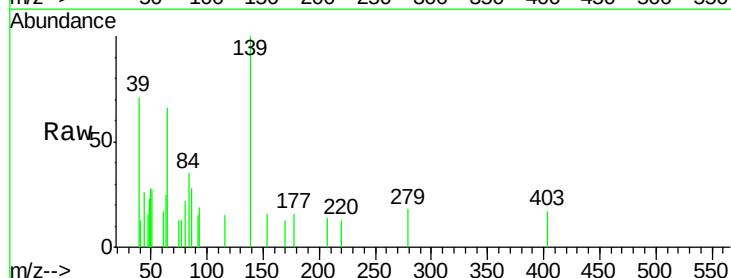
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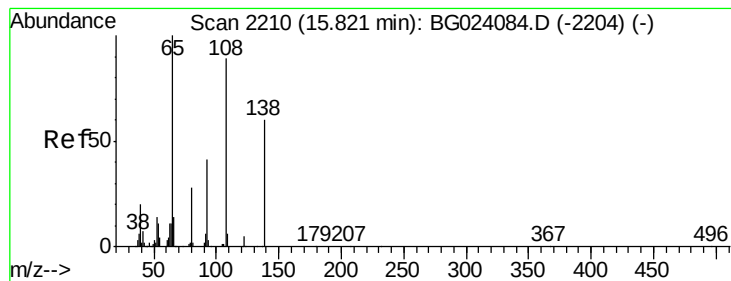
sohil
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#55
 4-Nitrophenol
 Concen: 5.91 ng
 RT: 15.07 min Scan# 2082
 Delta R.T. 0.09 min
 Lab File: BG024097.D
 Acq: 23 Sep 2016 21:20

Tgt Ion	Ratio	Lower	Upper
139	100		
109	0.0	103.0	143.0#
65	65.9	112.7	152.7#





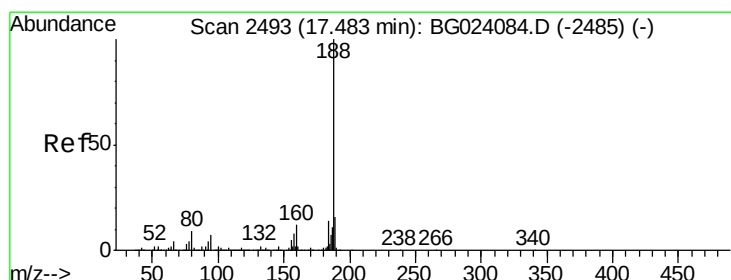
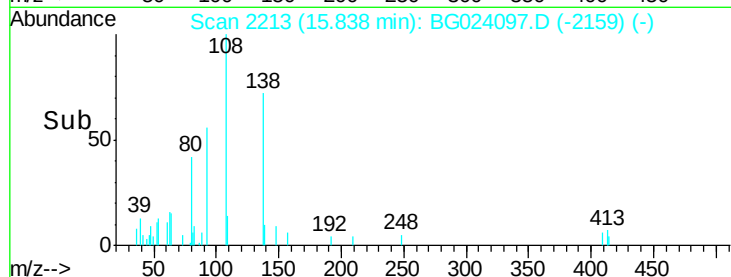
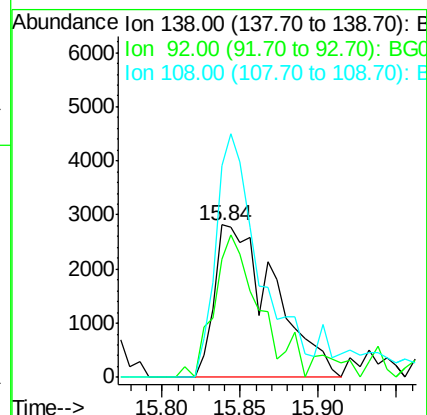
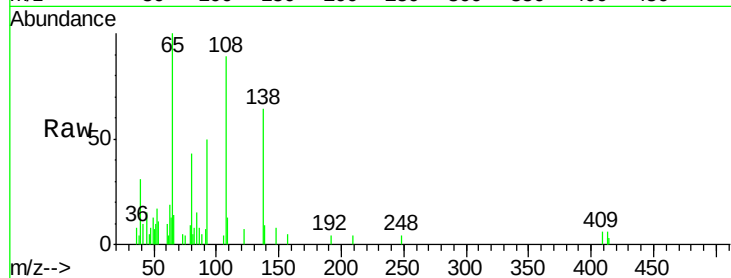
#61
4-Nitroaniline
Concen: 3.38 ng m
RT: 15.84 min Scan# 2213
Delta R.T. 0.02 min
Lab File: BG024097.D
Acq: 23 Sep 2016 21:20

Instrument :
BNA_G
ClientSampleId :
LOD-SOIL2016-01-QT4

Tgt Ion	Ratio	Lower	Upper
138	100		
92	77.6	54.1	94.1
108	138.7	133.9	173.9

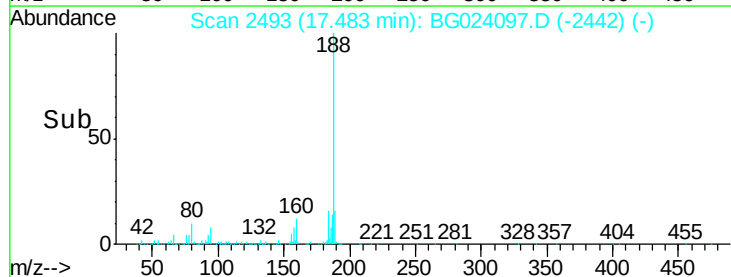
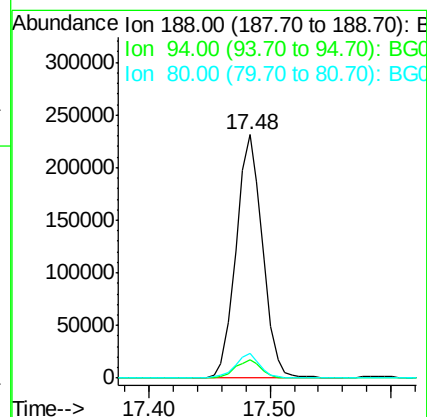
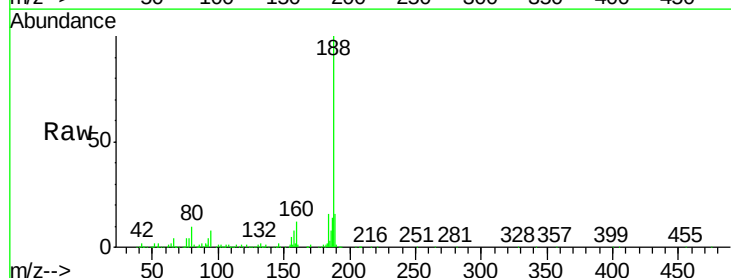
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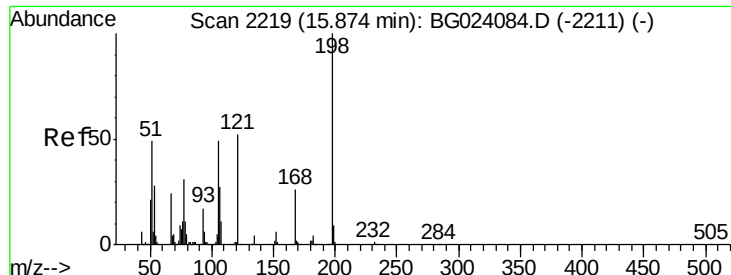
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#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.48 min Scan# 2493
Delta R.T. -0.00 min
Lab File: BG024097.D
Acq: 23 Sep 2016 21:20

Tgt Ion	Ratio	Lower	Upper
188	100		
94	7.6	5.2	7.8
80	10.3	7.2	10.8





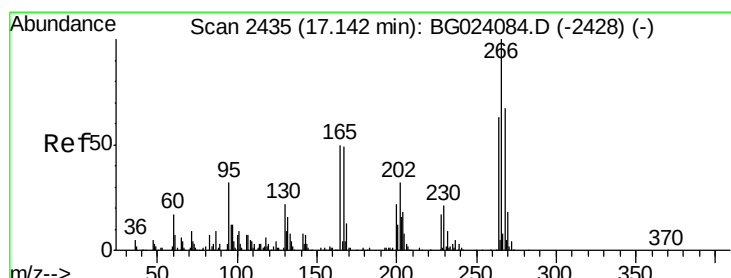
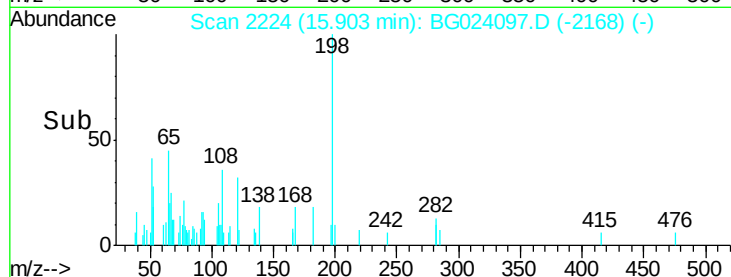
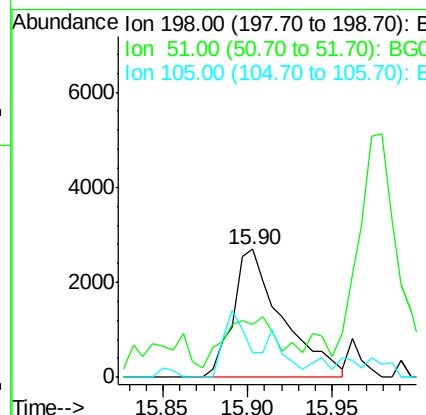
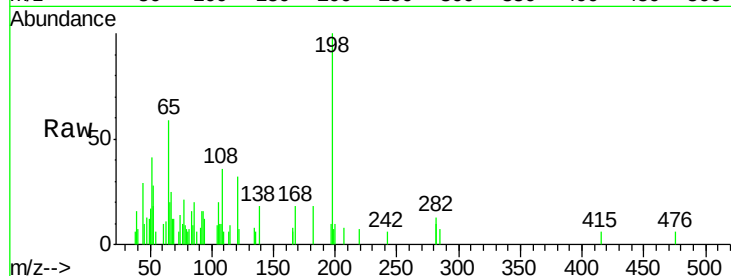
#64
 4,6-Dinitro-2-methylphenol
 Concen: 2.22 ng
 RT: 15.90 min Scan# 2224
 Delta R.T. 0.03 min
 Lab File: BG024097.D
 Acq: 23 Sep 2016 21:20

Instrument :
 BNA_G
 ClientSampleId :
 LOD-SOIL2016-01-QT4

Tgt Ion	Ratio	Resp	Lower	Upper
198	100	5430		
51	41.2	26.0	66.0	
105	19.8	20.1	60.1	

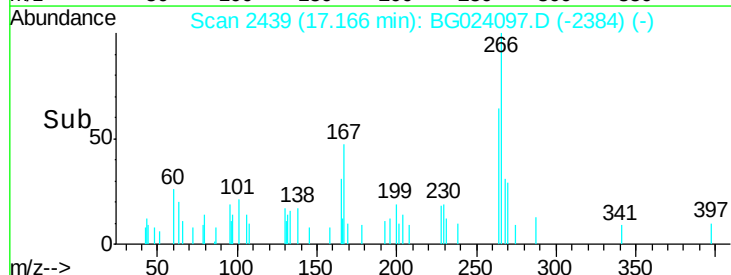
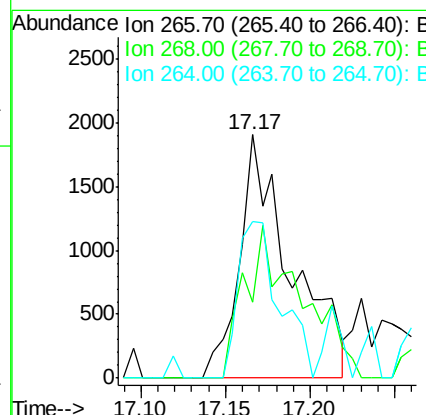
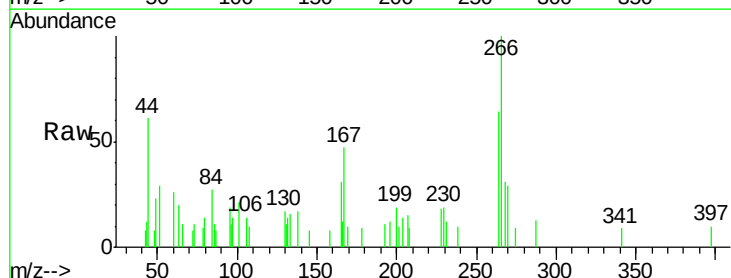
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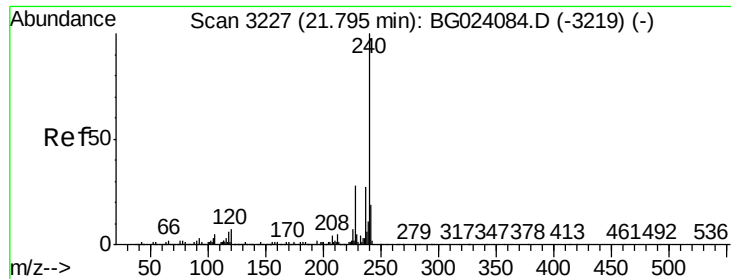
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#69
 Pentachlorophenol
 Concen: 5.18 ng
 RT: 17.17 min Scan# 2439
 Delta R.T. 0.02 min
 Lab File: BG024097.D
 Acq: 23 Sep 2016 21:20

Tgt Ion	Ratio	Resp	Lower	Upper
266	100	4034		
268	31.3	51.9	77.9	
264	64.3	50.6	75.8	





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.79 min Scan# 3226

Delta R.T. -0.01 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

Instrument :

BNA_G

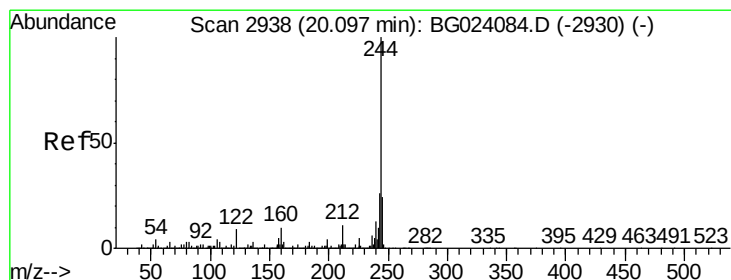
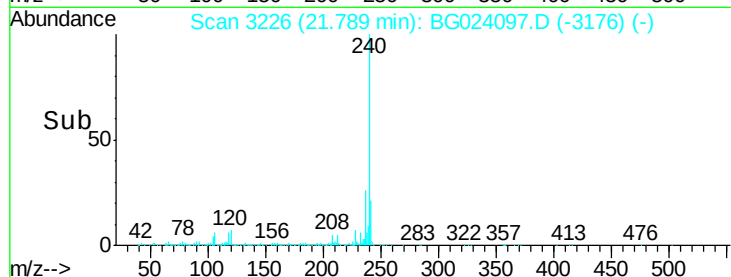
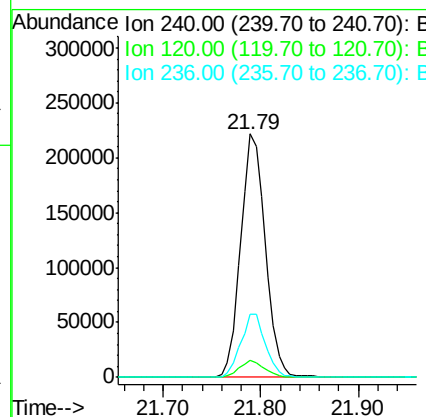
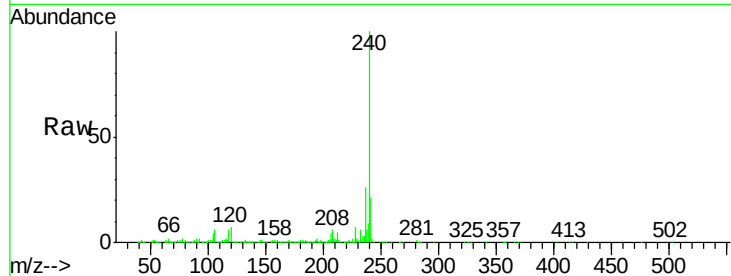
ClientSampleId :

LOD-SOIL2016-01-QT4

Tgt Ion:	240	Resp:	390316
Ion Ratio		Lower	Upper
240	100		
120	7.2	4.1	6.1#
236	26.0	21.1	31.7

Manual Integrations
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#78

Terphenyl-d14

Concen: 78.13 ng

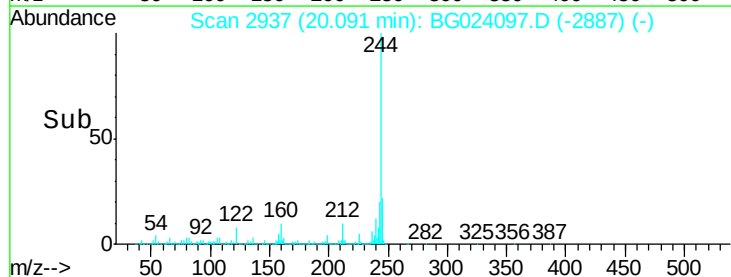
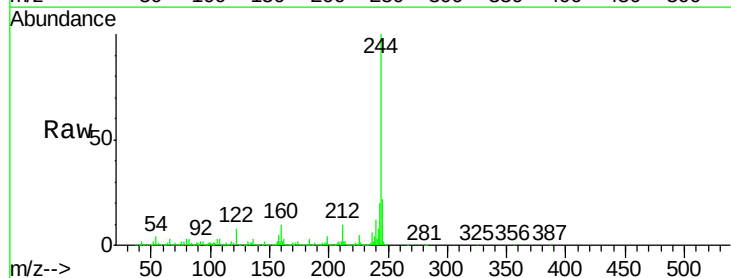
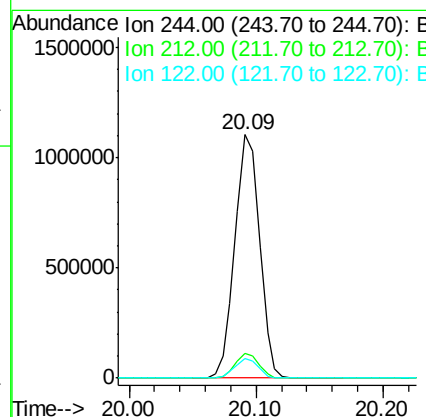
RT: 20.09 min Scan# 2937

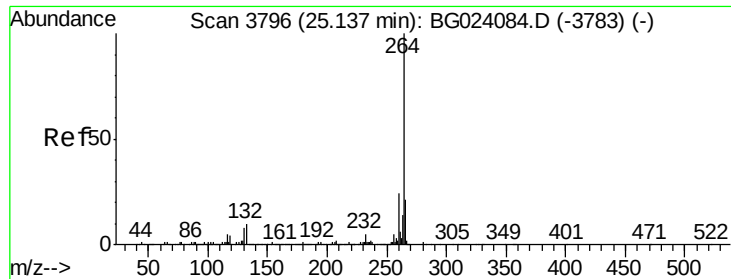
Delta R.T. -0.01 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

Tgt Ion:	244	Resp:	1489361
Ion Ratio		Lower	Upper
244	100		
212	9.9	10.8	16.2#
122	8.2	8.0	12.0





#86
Perylene-d12
Concen: 20.00 ng
RT: 25.13 min Scan# 3795
Delta R.T. -0.01 min
Lab File: BG024097.D
Acq: 23 Sep 2016 21:20

Instrument :
BNA_G
ClientSampleId :
LOD-SOIL2016-01-QT4

Tgt	Ion	Ratio	Resp	Lower	Upper
264	100				
260	22.3	18.4	27.6		
265	19.4	18.9	28.3		

Manual Integrations
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