

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM071317\
 Data File : BM010804.D
 Acq On : 13 Jul 2017 10:05
 Operator : SJ/JU
 Sample : I3757-01
 Misc : 2PPM LOD
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 LOD-SOIL-01-QT3-2017

Quant Time: Jul 13 13:21:44 2017
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-BM071217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 12 14:21:16 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.45	152	161497	20.00	ng	0.00
21) Naphthalene-d8	10.20	136	629871	20.00	ng	0.00
38) Acenaphthene-d10	14.10	164	409274	20.00	ng	0.00
63) Phenanthrene-d10	16.85	188	968882	20.00	ng	0.00
75) Chrysene-d12	21.06	240	1128996	20.00	ng	0.00
86) Perylene-d12	23.20	264	1050682	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.08	112	1334225	136.85	ng	0.00
7) Phenol-d6	6.64	99	1811778	134.80	ng	0.00
23) Nitrobenzene-d5	8.59	82	1673255	102.11	ng	0.00
41) 2,4,6-Tribromophenol	15.60	330	920208	147.13	ng	0.00
44) 2-Fluorobiphenyl	12.71	172	3493767	106.20	ng	0.00
78) Terphenyl-d14	19.51	244	5363077	91.88	ng	0.00

Target Compounds

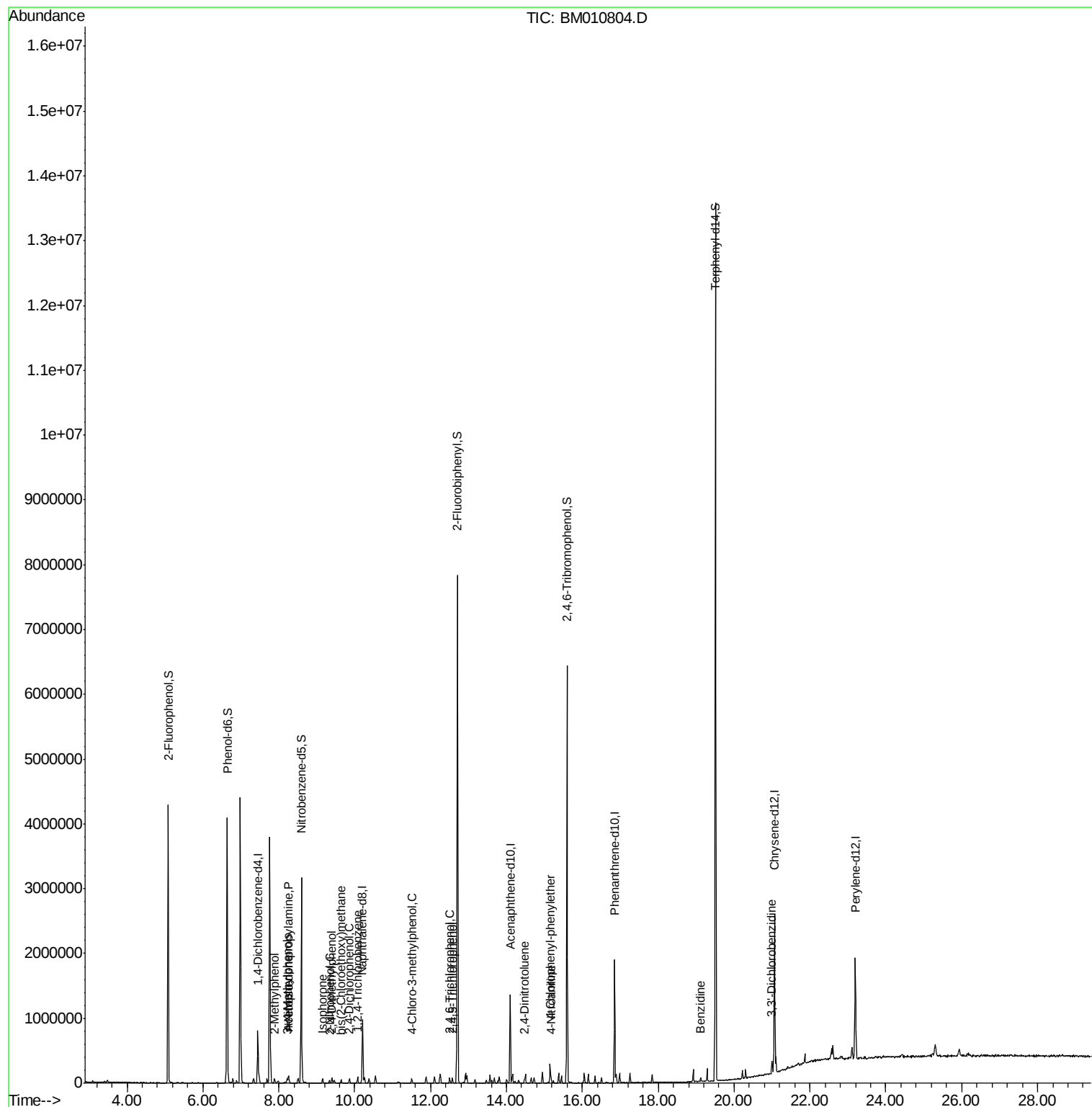
						Qvalue
17) 2-Methylphenol	7.89	107	16319	1.776	ng	# 78
19) n-Nitroso-di-n-propylamine	8.25	70	18970	1.782	ng	# 88
20) 3+4-Methylphenols	8.21	107	22967	1.799	ng	# 71
22) Acetophenone	8.26	105	34082	1.797	ng	# 92
25) Isophorone	9.16	82	45422	1.692	ng	# 87
26) 2-Nitrophenol	9.33	139	8922	1.597	ng	# 48
27) 2,4-Dimethylphenol	9.40	122	17140	1.718	ng	# 81
28) bis(2-Chloroethoxy)methane	9.65	93	25832	1.717	ng	# 80
29) 2,4-Dichlorophenol	9.86	162	16135	1.432	ng	# 92
30) 1,2,4-Trichlorobenzene	10.07	180	25869	1.878	ng	# 82
36) 4-Chloro-3-methylphenol	11.50	107	21517	1.579	ng	# 98
42) 2,4,6-Trichlorophenol	12.51	196	16143	1.470	ng	# 85
43) 2,4,5-Trichlorophenol	12.57	196	18540	1.709	ng	# 78
56) 2,4-Dinitrotoluene	14.47	165	12820	1.353	ng	# 91
60) 4-Chlorophenyl-phenylether	15.16	204	36164	1.782	ng	# 92
61) 4-Nitroaniline	15.18	138	9895	1.525	ng	# 30
76) Benzidine	19.12	184	34479	1.141	ng	# 91
81) 3,3'-Dichlorobenzidine	20.99	252	37515	1.458	ng	# 93

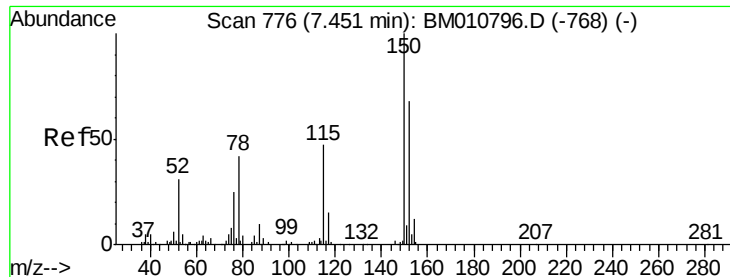
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM071317\
Data File : BM010804.D
Acq On : 13 Jul 2017 10:05
Operator : SJ/JU
Sample : I3757-01
Misc : 2PPM LOD
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
LOD-SOIL-01-QT3-2017

Quant Time: Jul 13 13:21:44 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-BM071217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jul 12 14:21:16 2017
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 7.45 min Scan# 775

Delta R.T. -0.01 min

Lab File: BM010804.D

Acq: 13 Jul 2017 10:05

Instrument :

BNA_M

ClientSampleId :

LOD-SOIL-01-QT3-2017

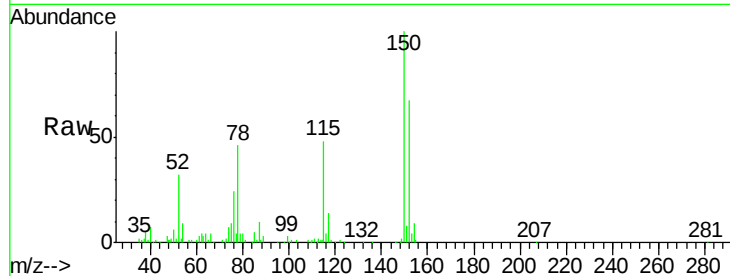
Tgt Ion:152 Resp: 161497

Ion Ratio Lower Upper

152 100

150 148.9 119.5 179.3

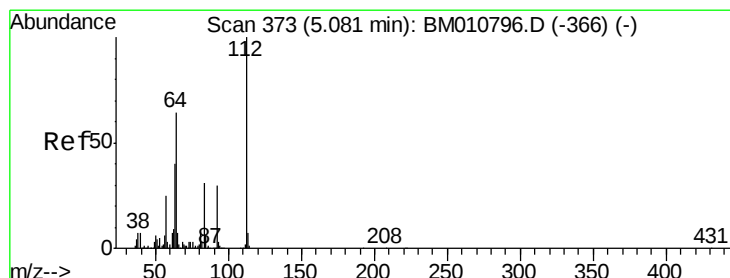
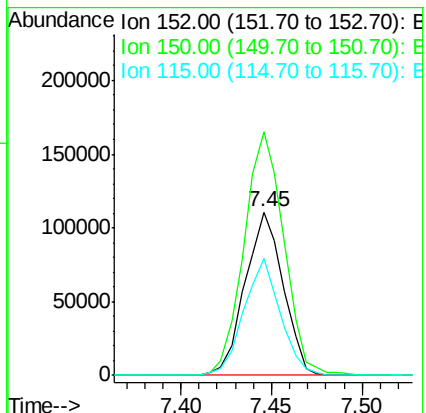
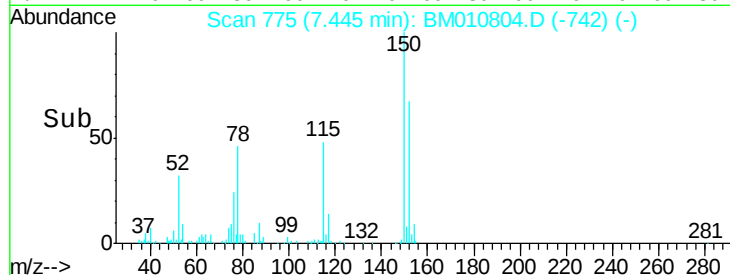
115 71.7 43.0 64.4#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 136.853 ng

RT: 5.08 min Scan# 373

Delta R.T. 0.00 min

Lab File: BM010804.D

Acq: 13 Jul 2017 10:05

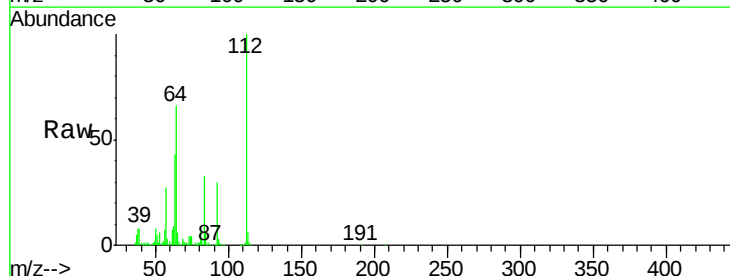
Tgt Ion:112 Resp: 1334225

Ion Ratio Lower Upper

112 100

64 65.5 38.6 57.8#

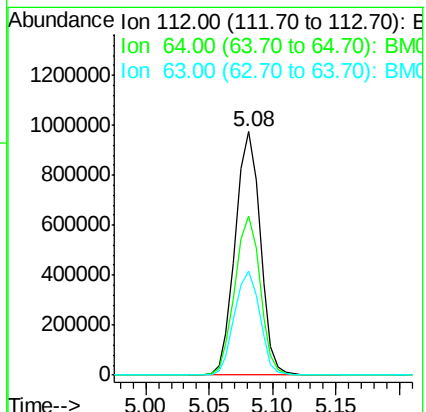
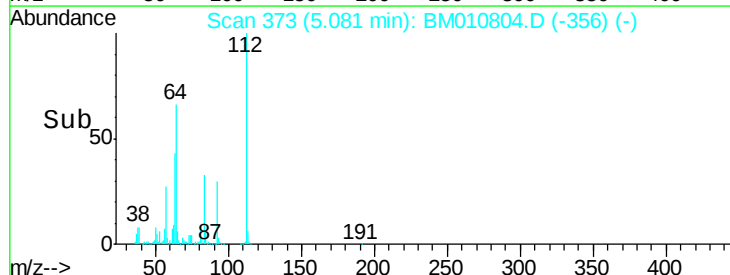
63 42.8 19.3 28.9#

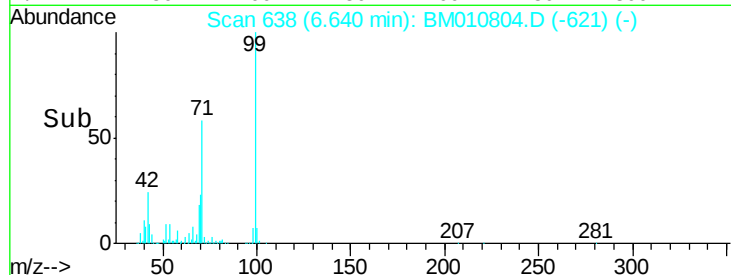
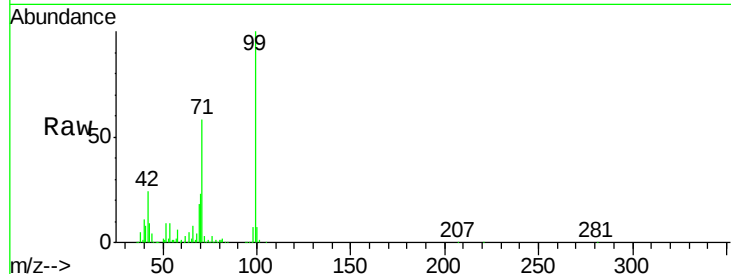
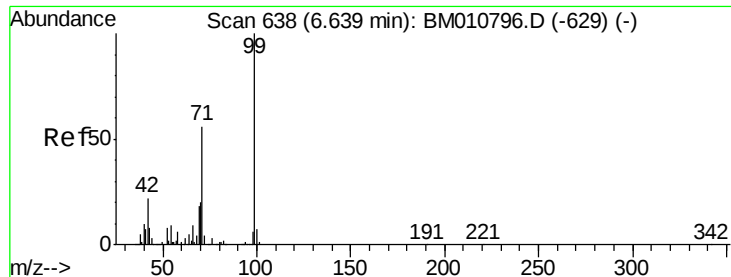


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BM0

Ion 63.00 (62.70 to 63.70): BM0





#7

Phenol-d6

Concen: 134.802 ng

RT: 6.64 min Scan# 638

Delta R.T. 0.00 min

Lab File: BM010804.D

Acq: 13 Jul 2017 10:05

Instrument :

BNA_M

ClientSampleId :

LOD-SOIL-01-QT3-2017

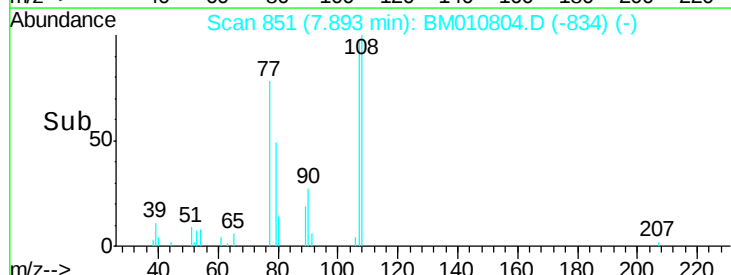
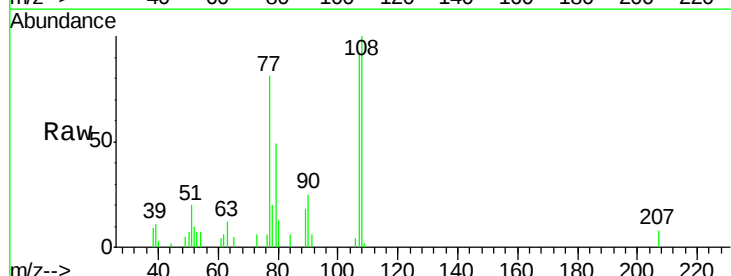
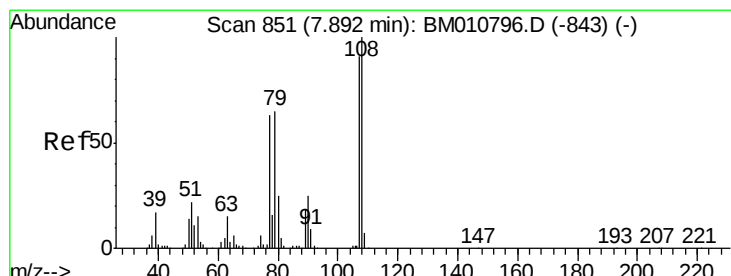
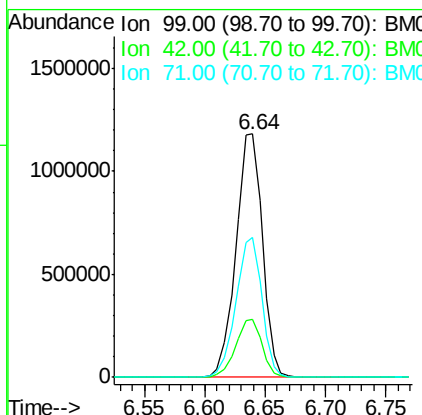
Tgt Ion: 99 Resp: 1811778

Ion Ratio Lower Upper

99 100

42 23.9 11.0 16.4#

71 57.6 23.4 35.2#



#17

2-Methylphenol

Concen: 1.776 ng

RT: 7.89 min Scan# 851

Delta R.T. 0.00 min

Lab File: BM010804.D

Acq: 13 Jul 2017 10:05

Tgt Ion: 107 Resp: 16319

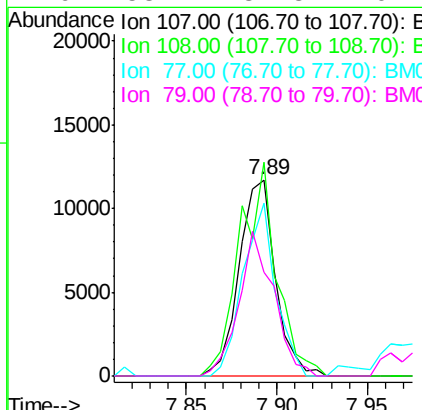
Ion Ratio Lower Upper

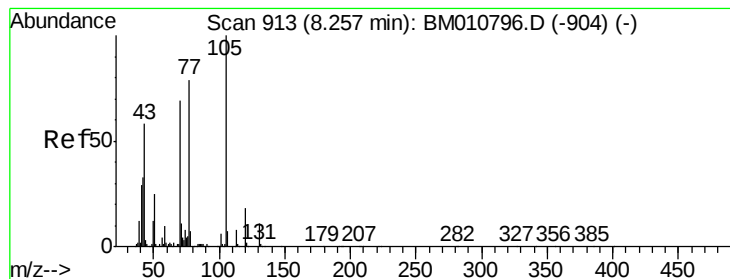
107 100

108 109.0 89.8 134.8

77 88.5 32.6 48.8#

79 53.2 32.8 49.2#





#19

n-Nitroso-di-n-propylamine

Concen: 1.782 ng

RT: 8.25 min Scan# 911

Delta R.T. -0.01 min

Lab File: BM010804.D

Acq: 13 Jul 2017 10:05

Instrument :

BNA_M

ClientSampleId :

LOD-SOIL-01-QT3-2017

Tgt Ion: 70 Resp: 18970

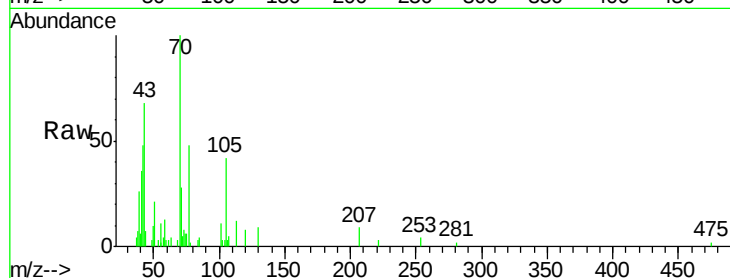
Ion Ratio Lower Upper

70 100

42 48.2 44.5 66.7

101 10.7 7.4 11.2

130 8.6 15.3 22.9#



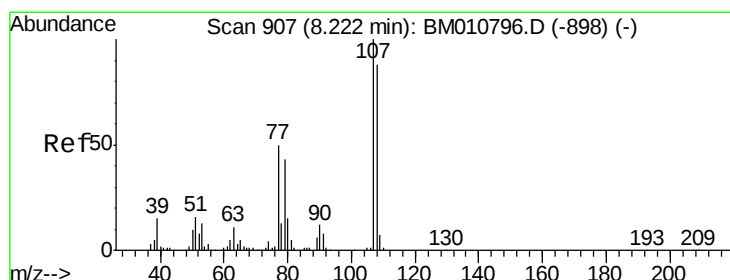
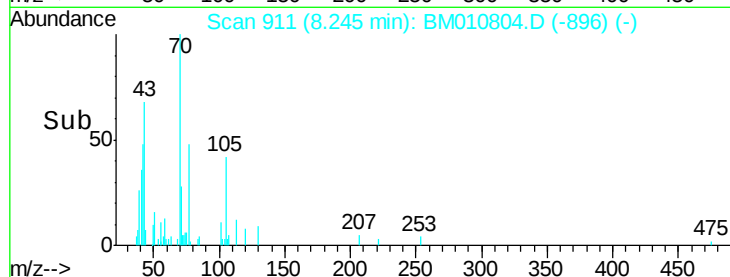
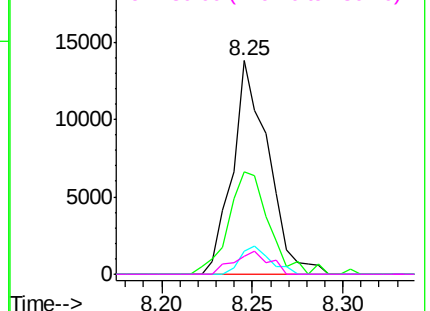
Abundance

Ion 70.00 (69.70 to 70.70): BM010804.D (-896) (-)

Ion 42.00 (41.70 to 42.70): BM010804.D (-896) (-)

Ion 101.00 (100.70 to 101.70): BM010804.D (-896) (-)

Ion 130.00 (129.70 to 130.70): BM010804.D (-896) (-)



#20

3+4-Methylphenols

Concen: 1.799 ng

RT: 8.21 min Scan# 905

Delta R.T. -0.01 min

Lab File: BM010804.D

Acq: 13 Jul 2017 10:05

Tgt Ion: 107 Resp: 22967

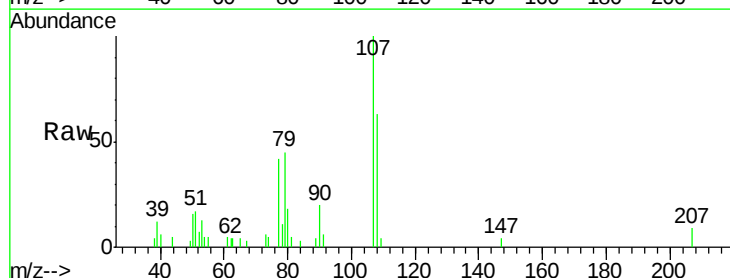
Ion Ratio Lower Upper

107 100

108 62.9 73.2 113.2#

77 41.8 10.7 50.7

79 45.3 9.6 49.6



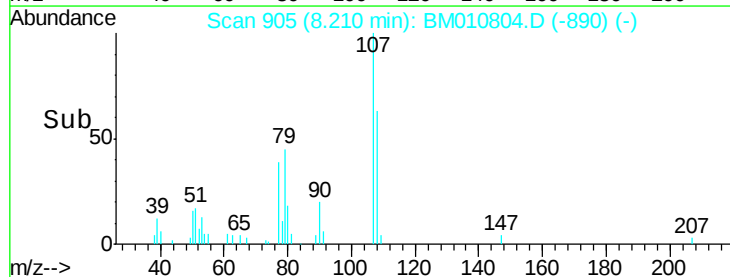
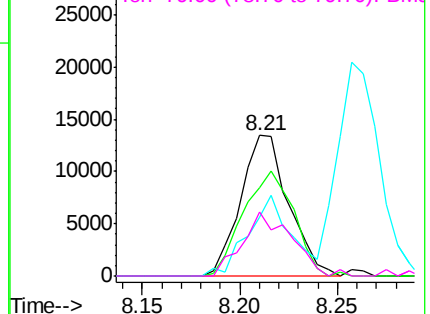
Abundance

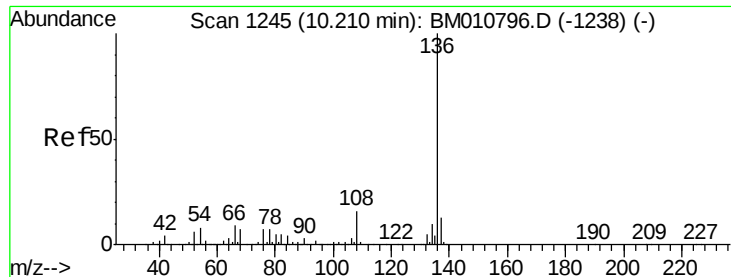
Ion 107.00 (106.70 to 107.70): BM010804.D (-890) (-)

Ion 108.00 (107.70 to 108.70): BM010804.D (-890) (-)

Ion 77.00 (76.70 to 77.70): BM010804.D (-890) (-)

Ion 79.00 (78.70 to 79.70): BM010804.D (-890) (-)

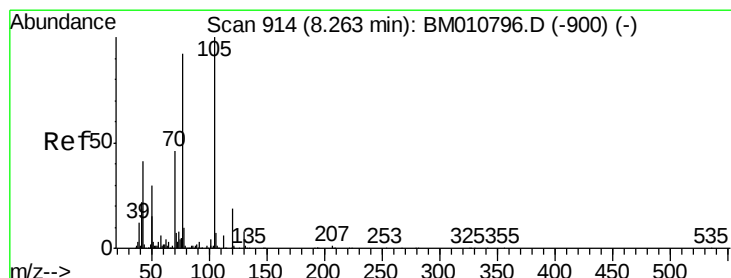
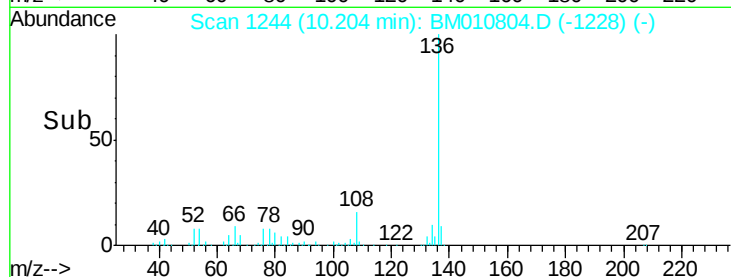
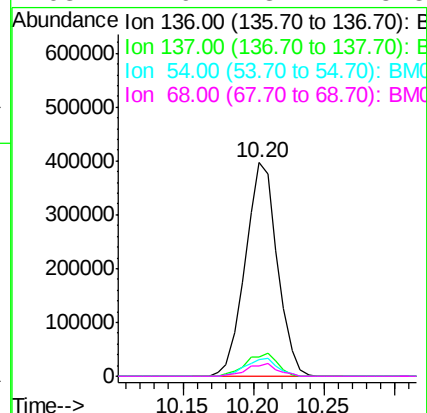
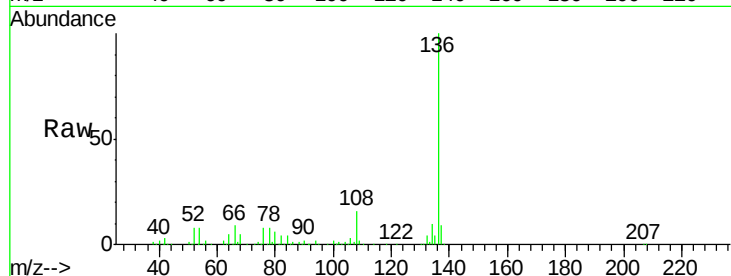




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.20 min Scan# 1244
Delta R.T. -0.01 min
Lab File: BM010804.D
Acq: 13 Jul 2017 10:05

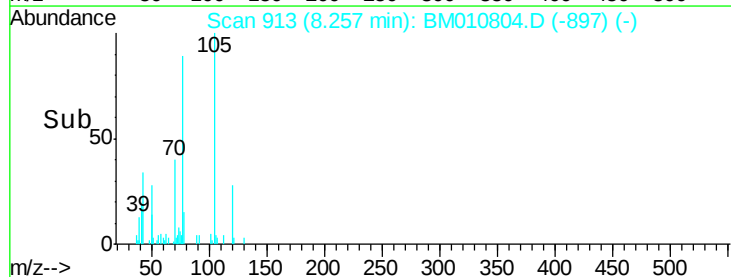
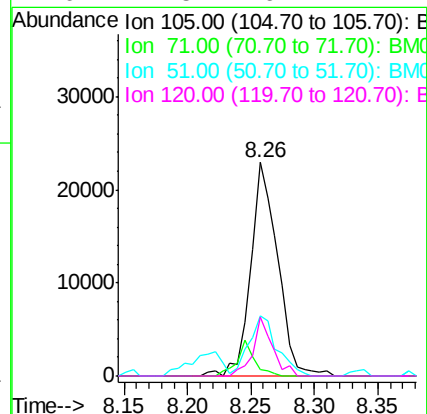
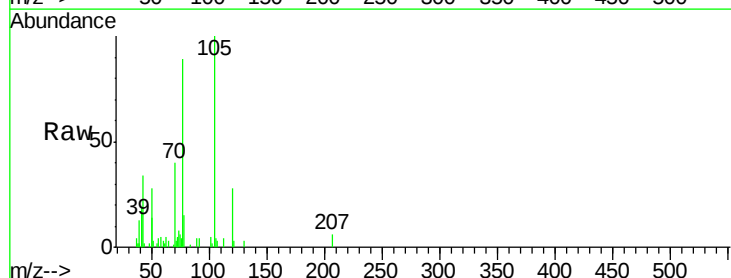
Instrument :
BNA_M
ClientSampleId :
LOD-SOIL-01-QT3-2017

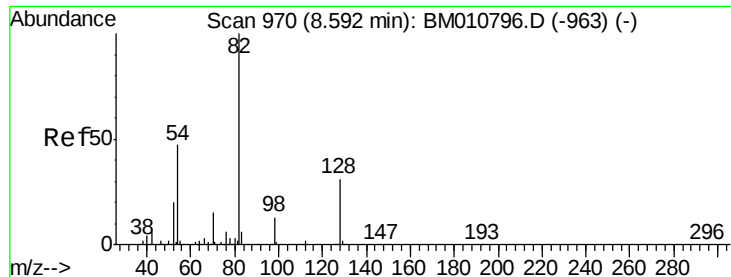
Tgt Ion:	136	Resp:	629871
Ion	Ratio	Lower	Upper
136	100		
137	9.2	8.7	13.1
54	8.0	4.6	6.8#
68	4.9	3.7	5.5



#22
Acetophenone
Concen: 1.797 ng
RT: 8.26 min Scan# 913
Delta R.T. -0.01 min
Lab File: BM010804.D
Acq: 13 Jul 2017 10:05

Tgt Ion:	105	Resp:	34082
Ion	Ratio	Lower	Upper
105	100		
71	3.3	0.6	1.0#
51	28.5	21.6	32.4
120	27.5	16.1	24.1#





#23

Nitrobenzene-d5

Concen: 102.110 ng

RT: 8.59 min Scan# 970

Delta R.T. 0.00 min

Lab File: BM010804.D

Acq: 13 Jul 2017 10:05

Instrument :

BNA_M

ClientSampleId :

LOD-SOIL-01-QT3-2017

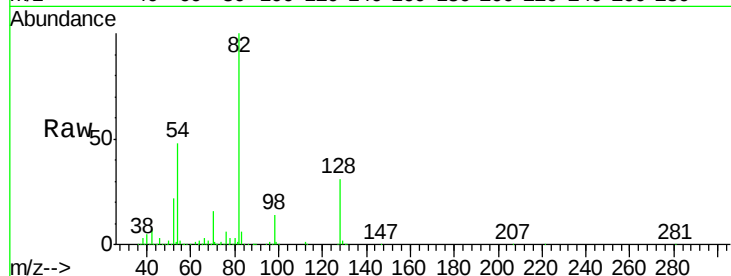
Tgt Ion: 82 Resp: 1673255

Ion Ratio Lower Upper

82 100

128 31.1 32.8 49.2#

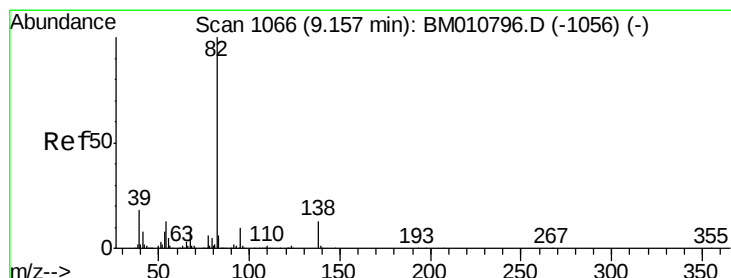
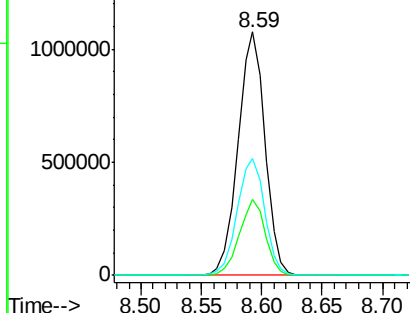
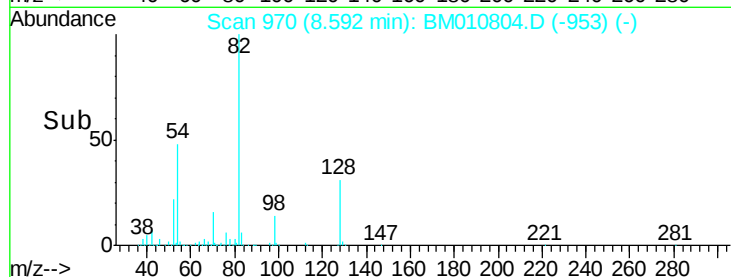
54 48.2 40.6 60.8



Abundance Ion 82.00 (81.70 to 82.70): BM010804.D (-953) (-)

Ion 128.00 (127.70 to 128.70): BM010804.D (-953) (-)

Ion 54.00 (53.70 to 54.70): BM010804.D (-953) (-)



#25

Isophorone

Concen: 1.692 ng

RT: 9.16 min Scan# 1066

Delta R.T. 0.00 min

Lab File: BM010804.D

Acq: 13 Jul 2017 10:05

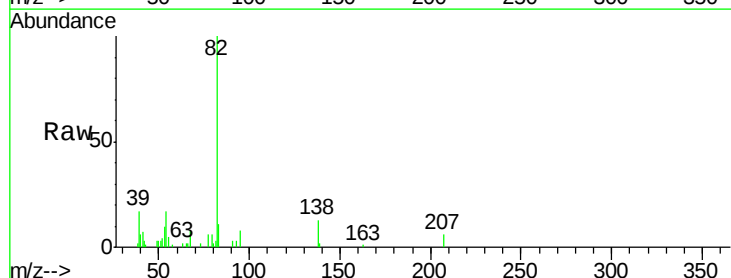
Tgt Ion: 82 Resp: 45422

Ion Ratio Lower Upper

82 100

95 8.4 5.8 8.6

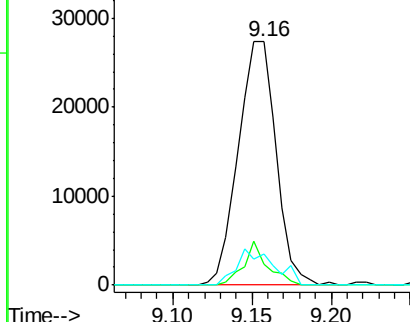
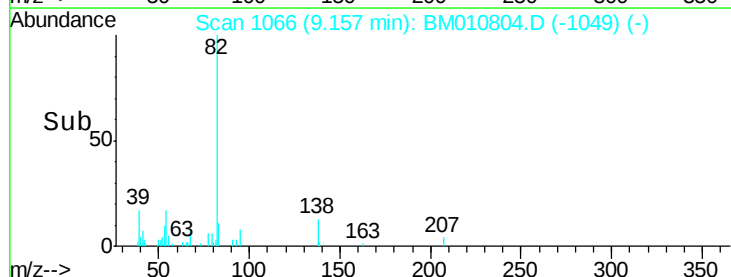
138 12.6 16.3 24.5#

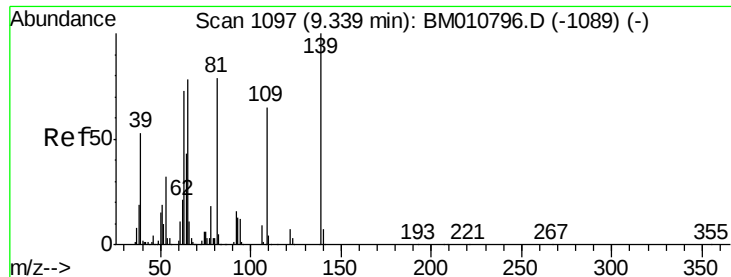


Abundance Ion 82.00 (81.70 to 82.70): BM010804.D (-1049) (-)

Ion 95.00 (94.70 to 95.70): BM010804.D (-1049) (-)

Ion 138.00 (137.70 to 138.70): BM010804.D (-1049) (-)

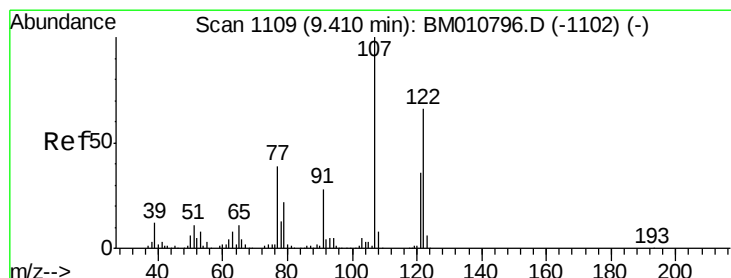
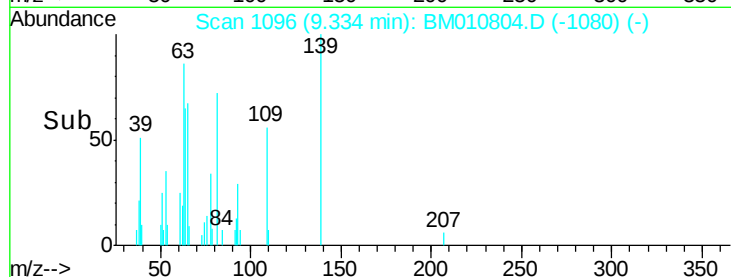
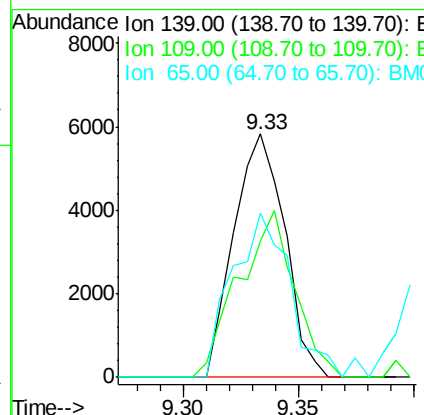
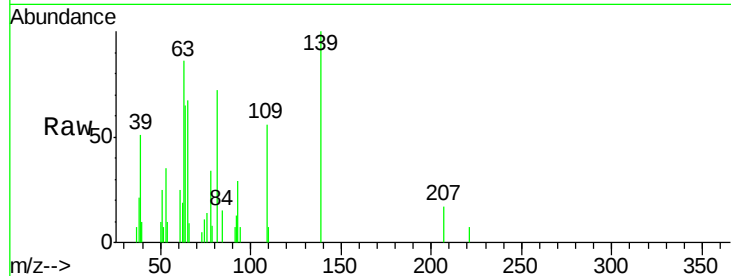




#26
2-Nitrophenol
Concen: 1.597 ng
RT: 9.33 min Scan# 1096
Delta R.T. -0.01 min
Lab File: BM010804.D
Acq: 13 Jul 2017 10:05

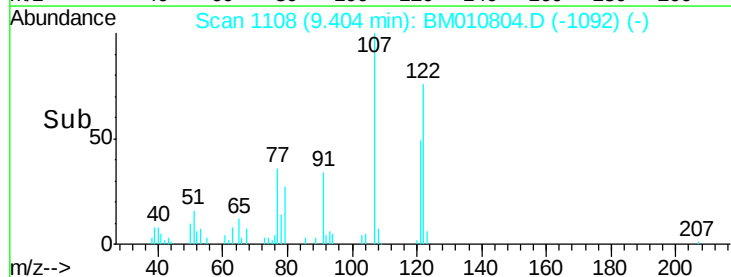
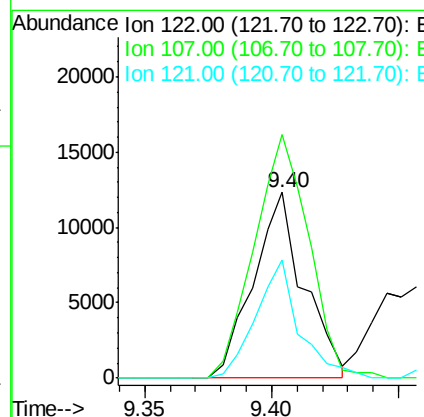
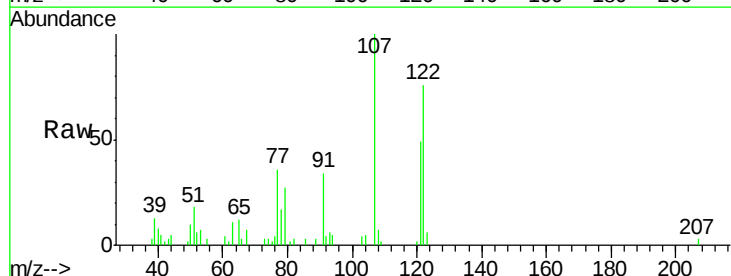
Instrument :
BNA_M
ClientSampleId :
LOD-SOIL-01-QT3-2017

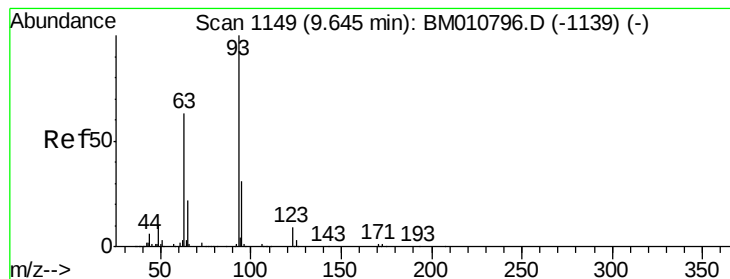
Tgt Ion	Ratio	Lower	Upper
139	100		
109	56.0	20.1	30.1#
65	67.3	31.5	47.3#



#27
2,4-Dimethylphenol
Concen: 1.718 ng
RT: 9.40 min Scan# 1108
Delta R.T. -0.01 min
Lab File: BM010804.D
Acq: 13 Jul 2017 10:05

Tgt Ion	Ratio	Lower	Upper
122	100		
107	131.3	84.7	127.1#
121	63.7	46.6	69.8





#28

bis(2-Chloroethoxy)methane

Concen: 1.717 ng

RT: 9.65 min Scan# 1149

Delta R.T. 0.00 min

Lab File: BM010804.D

Acq: 13 Jul 2017 10:05

Instrument :

BNA_M

ClientSampleId :

LOD-SOIL-01-QT3-2017

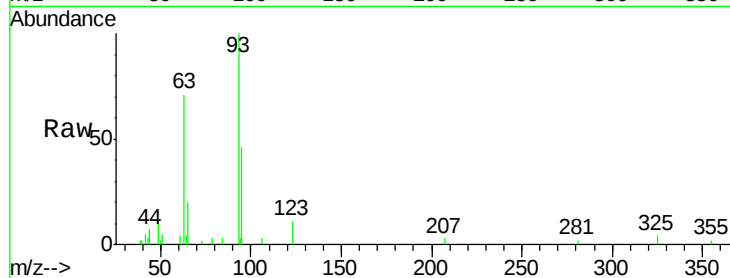
Tgt Ion: 93 Resp: 25832

Ion Ratio Lower Upper

93 100

95 46.5 25.5 38.3#

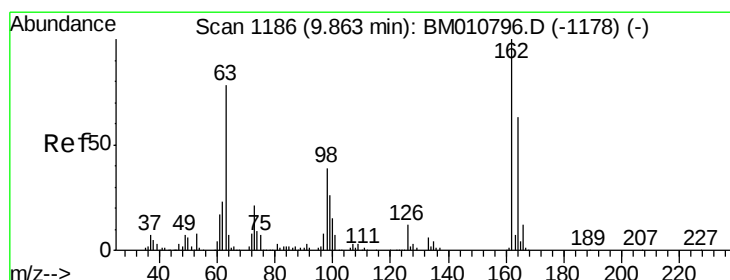
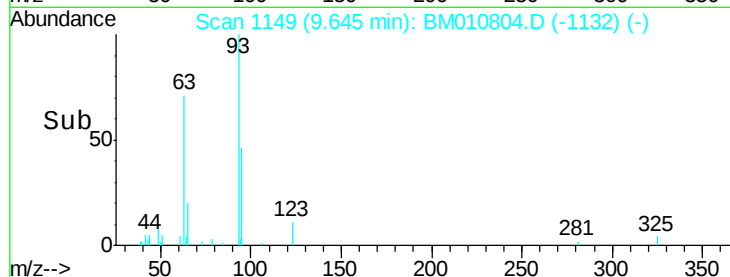
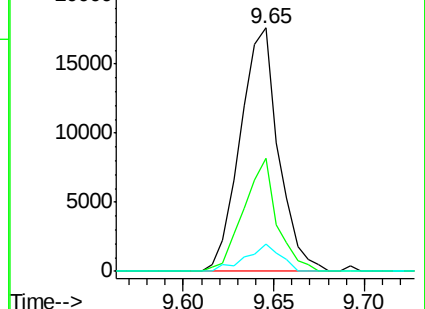
123 11.0 8.6 13.0



Abundance Ion 93.00 (92.70 to 93.70): BM010796.D (-1139) (-)

Ion 95.00 (94.70 to 95.70): BM010796.D (-1139) (-)

Ion 123.00 (122.70 to 123.70): BM010796.D (-1139) (-)



#29

2,4-Dichlorophenol

Concen: 1.432 ng

RT: 9.86 min Scan# 1185

Delta R.T. -0.01 min

Lab File: BM010804.D

Acq: 13 Jul 2017 10:05

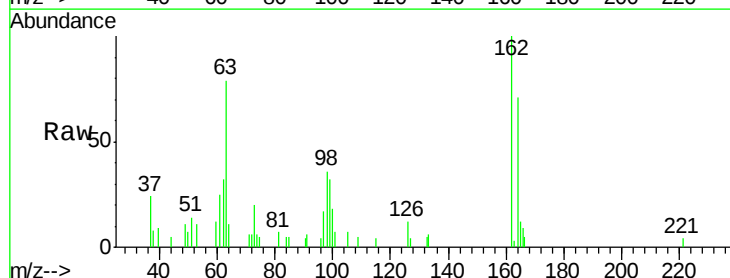
Tgt Ion: 162 Resp: 16135

Ion Ratio Lower Upper

162 100

164 70.7 42.8 82.8

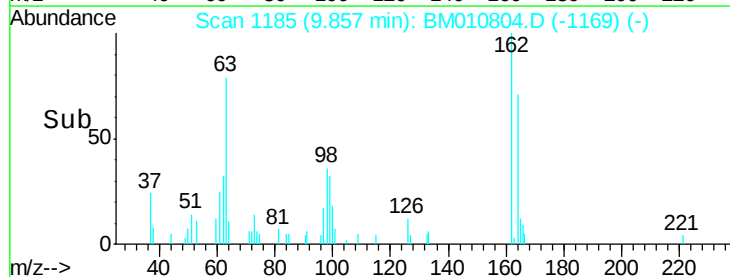
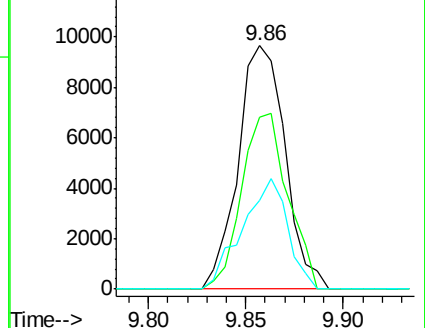
98 36.4 14.5 54.5

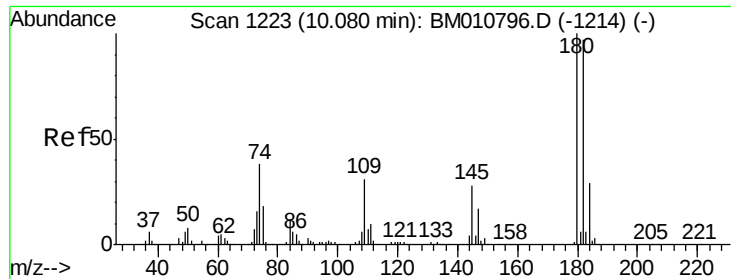


Abundance Ion 162.00 (161.70 to 162.70): BM010796.D (-1178) (-)

Ion 164.00 (163.70 to 164.70): BM010796.D (-1178) (-)

Ion 98.00 (97.70 to 98.70): BM010796.D (-1178) (-)

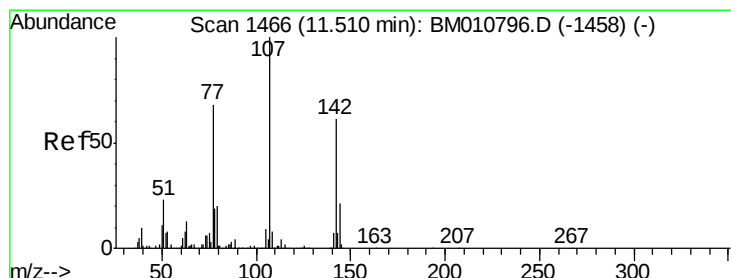
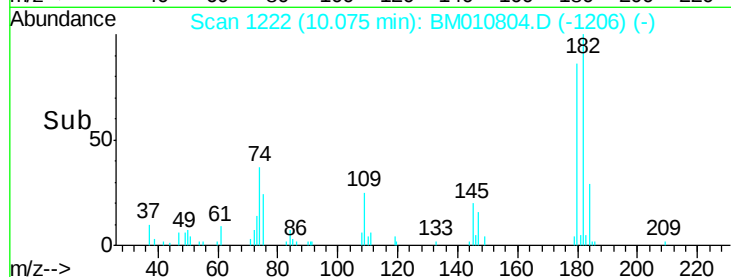
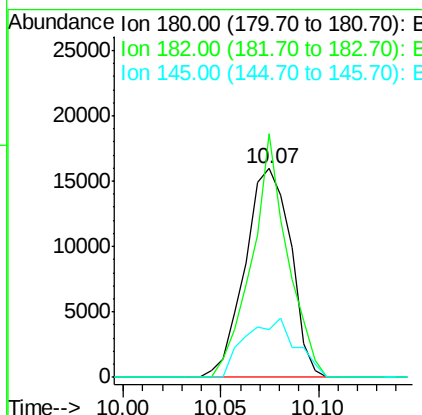
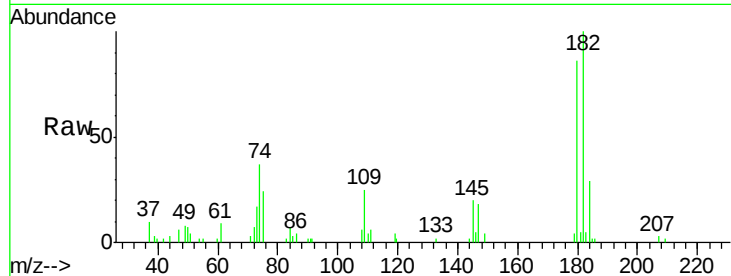




#30
 1,2,4-Trichlorobenzene
 Concen: 1.878 ng
 RT: 10.07 min Scan# 1222
 Delta R.T. -0.01 min
 Lab File: BM010804.D
 Acq: 13 Jul 2017 10:05

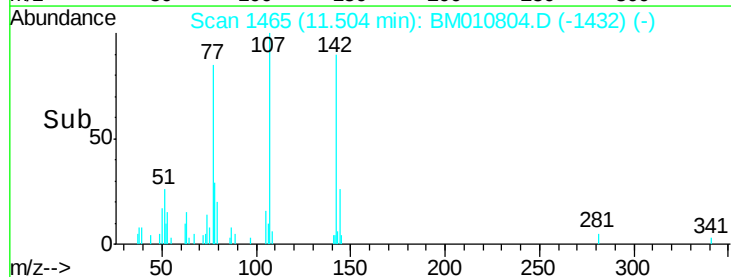
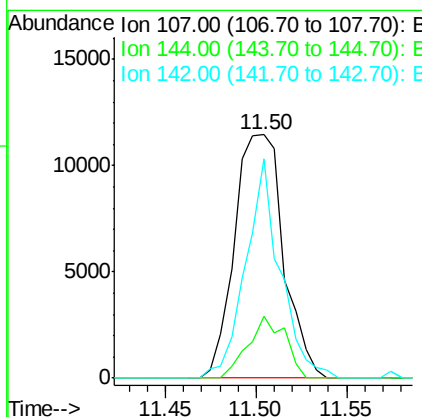
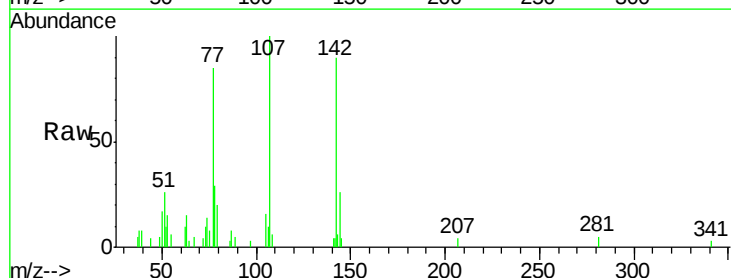
Instrument :
 BNA_M
 ClientSampleId :
 LOD-SOIL-01-QT3-2017

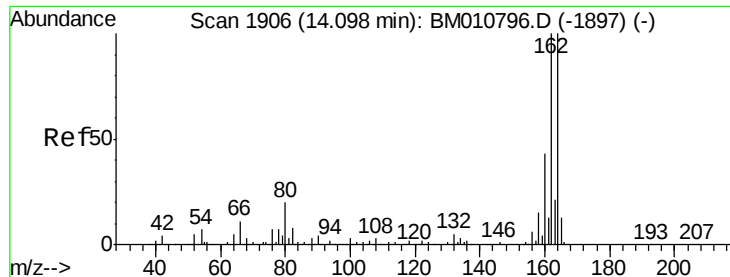
Tgt Ion:180 Resp: 25869
 Ion Ratio Lower Upper
 180 100
 182 116.8 77.6 116.4#
 145 23.1 23.4 35.2#



#36
 4-Chloro-3-methylphenol
 Concen: 1.579 ng
 RT: 11.50 min Scan# 1465
 Delta R.T. -0.01 min
 Lab File: BM010804.D
 Acq: 13 Jul 2017 10:05

Tgt Ion:107 Resp: 21517
 Ion Ratio Lower Upper
 107 100
 144 25.6 23.3 34.9
 142 89.8 72.6 109.0

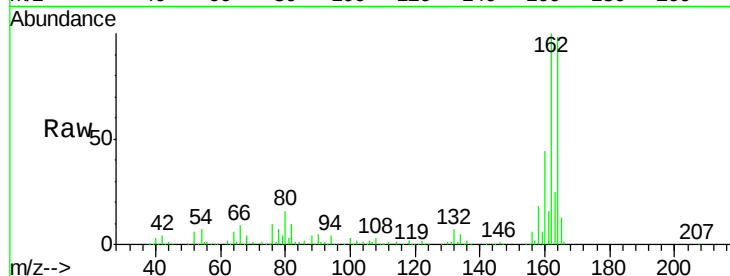




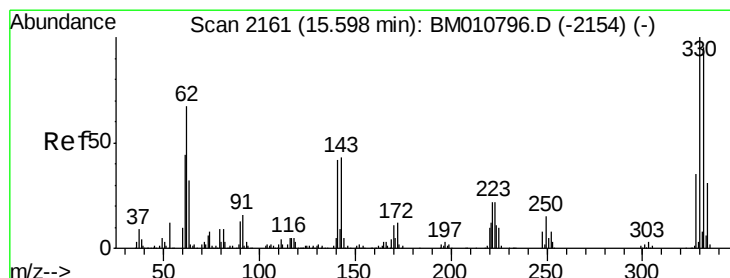
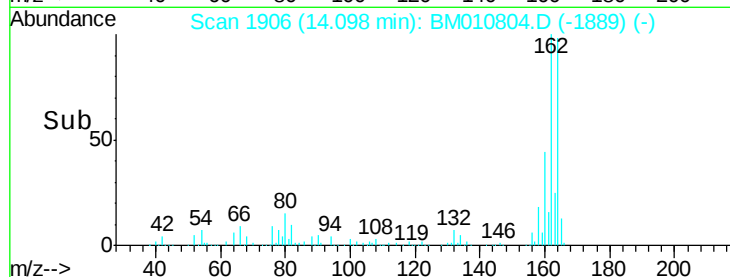
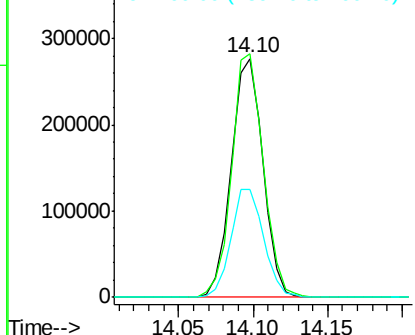
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.10 min Scan# 1906
Delta R.T. 0.00 min
Lab File: BM010804.D
Acq: 13 Jul 2017 10:05

Instrument :
BNA_M
ClientSampleId :
LOD-SOIL-01-QT3-2017

Tgt Ion:164 Resp: 409274
Ion Ratio Lower Upper
164 100
162 102.1 82.4 123.6
160 45.1 35.8 53.6

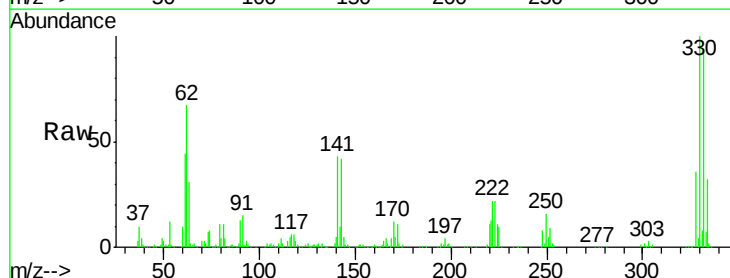


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

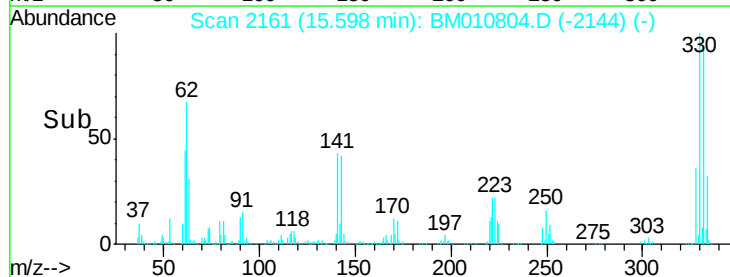
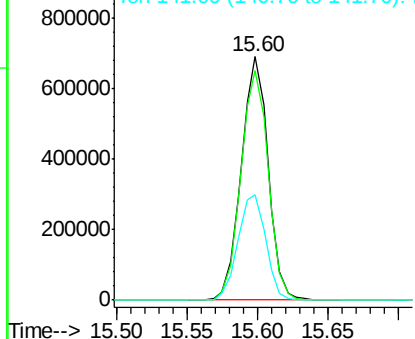


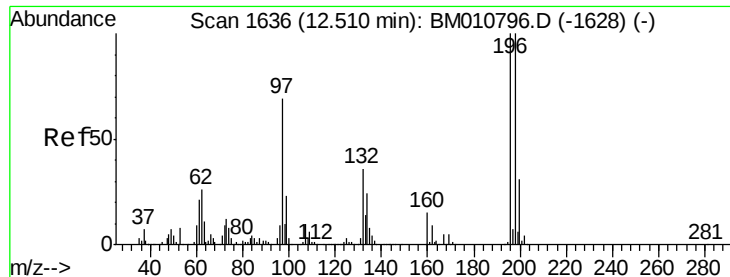
#41
2,4,6-Tribromophenol
Concen: 147.128 ng
RT: 15.60 min Scan# 2161
Delta R.T. 0.00 min
Lab File: BM010804.D
Acq: 13 Jul 2017 10:05

Tgt Ion:330 Resp: 920208
Ion Ratio Lower Upper
330 100
332 95.8 0.0 0.0#
141 44.7 0.0 0.0#



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





#42

2,4,6-Trichlorophenol

Concen: 1.470 ng

RT: 12.51 min Scan# 1636

Delta R.T. 0.00 min

Lab File: BM010804.D

Acq: 13 Jul 2017 10:05

Instrument :

BNA_M

ClientSampleId :

LOD-SOIL-01-QT3-2017

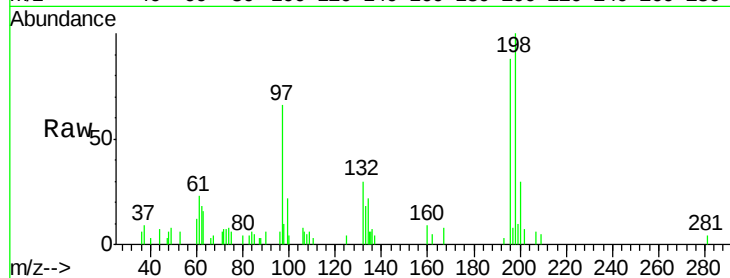
Tgt Ion:196 Resp: 16143

Ion Ratio Lower Upper

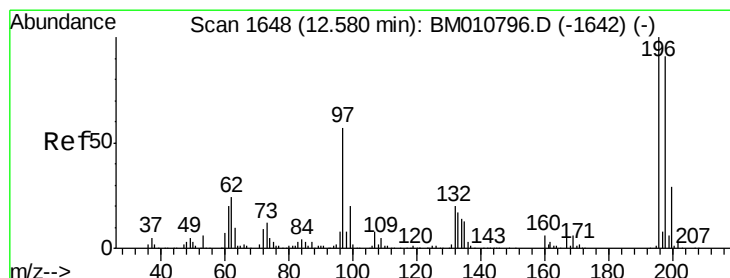
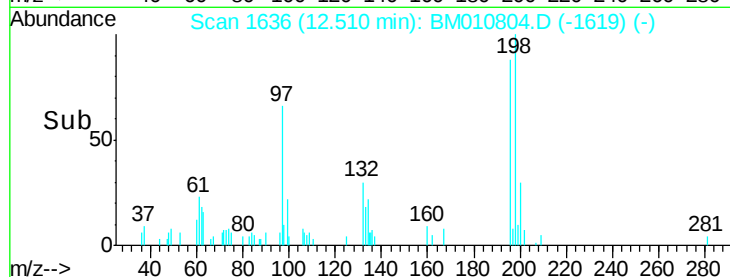
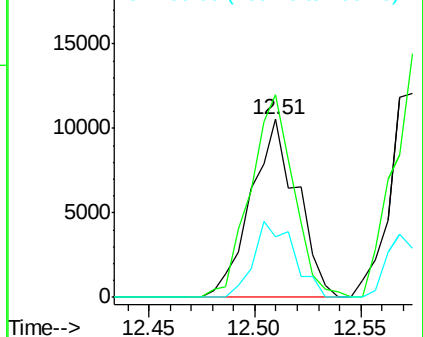
196 100

198 114.0 76.3 114.5

200 34.0 25.6 38.4



Abundance Ion 196.00 (195.70 to 196.70): E
Ion 198.00 (197.70 to 198.70): E
Ion 200.00 (199.70 to 200.70): E



#43

2,4,5-Trichlorophenol

Concen: 1.709 ng

RT: 12.57 min Scan# 1647

Delta R.T. -0.01 min

Lab File: BM010804.D

Acq: 13 Jul 2017 10:05

Tgt Ion:196 Resp: 18540

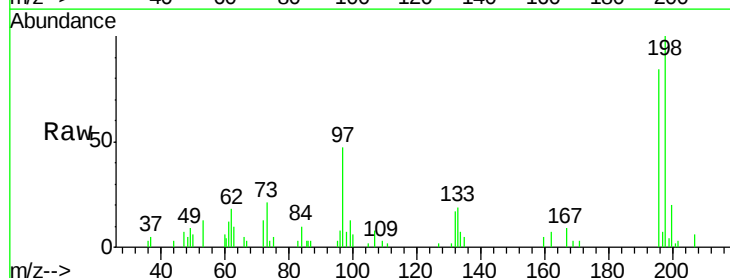
Ion Ratio Lower Upper

196 100

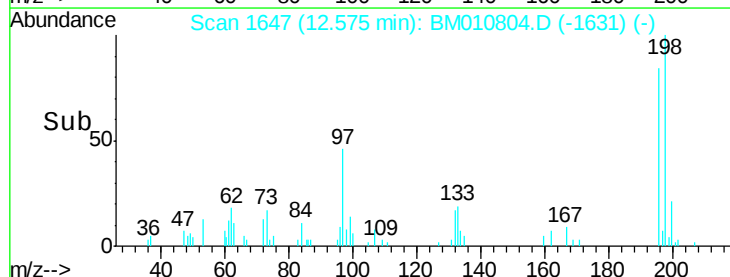
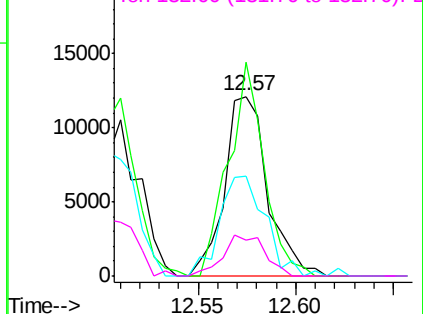
198 119.2 79.4 119.0#

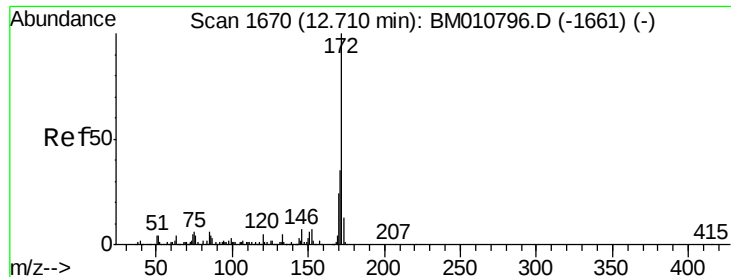
97 55.7 26.8 40.2#

132 20.0 18.6 28.0



Abundance Ion 196.00 (195.70 to 196.70): E
Ion 198.00 (197.70 to 198.70): E
Ion 97.00 (96.70 to 97.70): BM0
Ion 132.00 (131.70 to 132.70): E

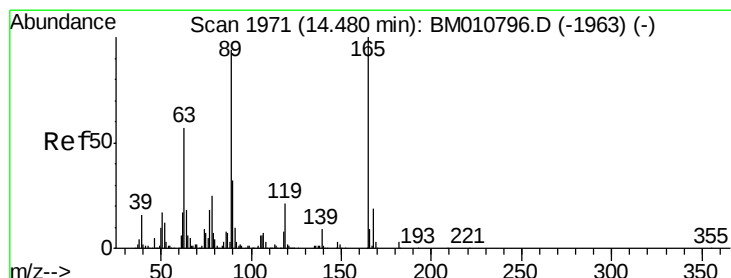
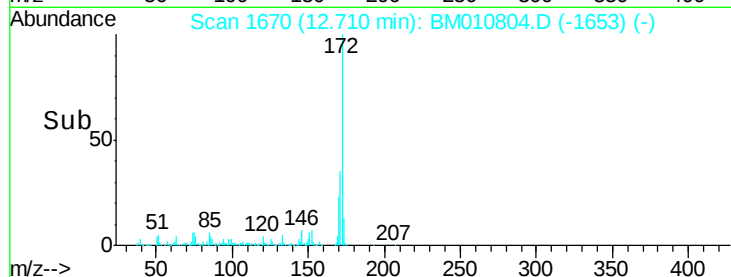
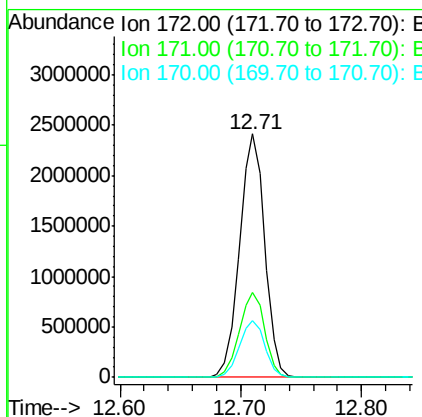
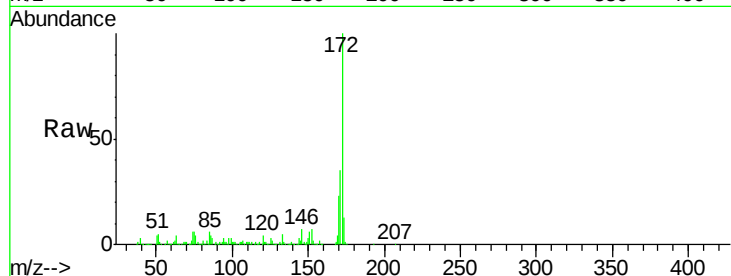




#44
 2-Fluorobiphenyl
 Concen: 106.196 ng
 RT: 12.71 min Scan# 1670
 Delta R.T. 0.00 min
 Lab File: BM010804.D
 Acq: 13 Jul 2017 10:05

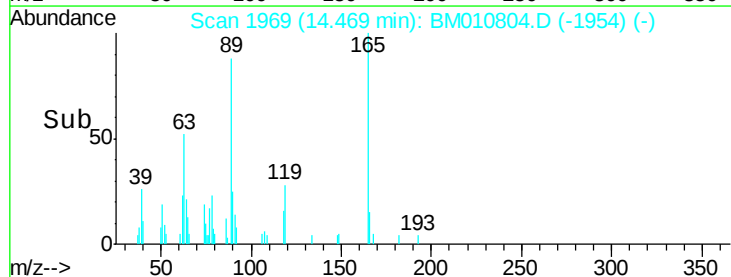
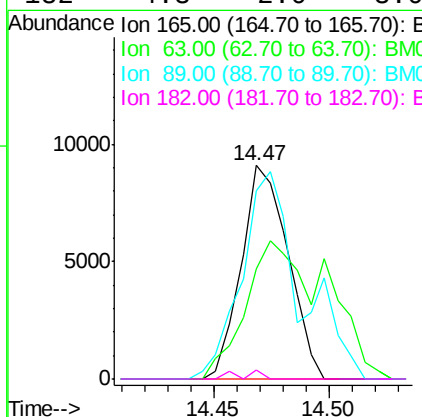
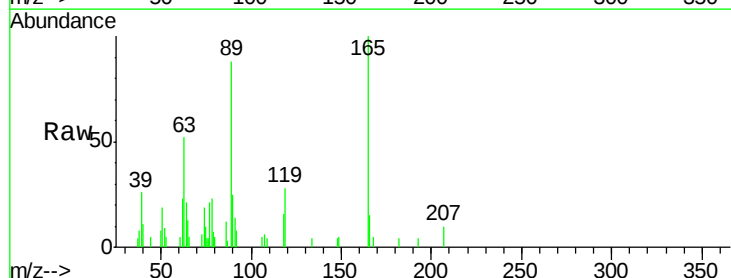
Instrument :
 BNA_M
 ClientSampleId :
 LOD-SOIL-01-QT3-2017

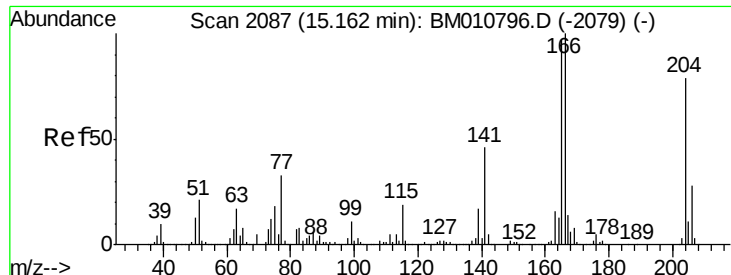
Tgt Ion:172 Resp: 3493767
 Ion Ratio Lower Upper
 172 100
 171 35.0 28.5 42.7
 170 23.5 18.8 28.2



#56
 2,4-Dinitrotoluene
 Concen: 1.353 ng
 RT: 14.47 min Scan# 1969
 Delta R.T. -0.01 min
 Lab File: BM010804.D
 Acq: 13 Jul 2017 10:05

Tgt Ion:165 Resp: 12820
 Ion Ratio Lower Upper
 165 100
 63 51.8 52.4 78.6#
 89 88.3 72.4 108.6
 182 4.3 2.0 3.0#

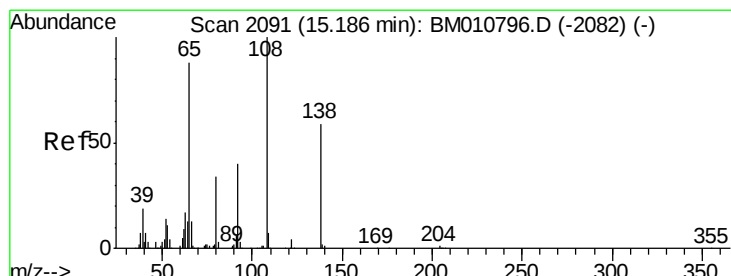
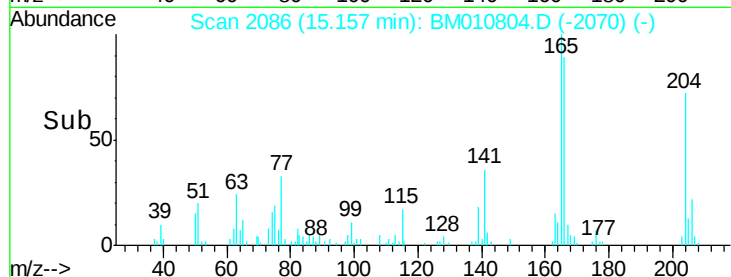
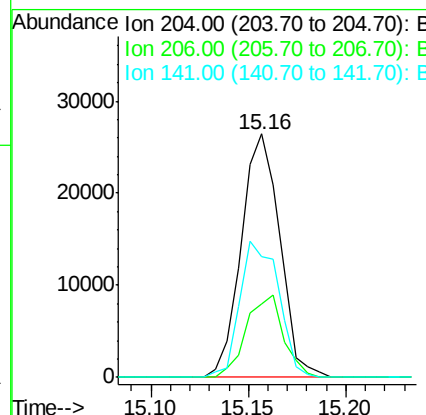
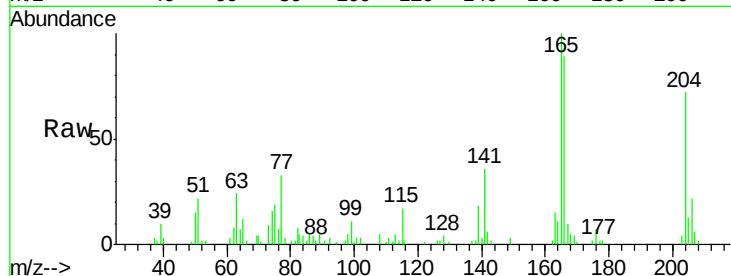




#60
 4-Chlorophenyl-phenylether
 Concen: 1.782 ng
 RT: 15.16 min Scan# 2086
 Delta R.T. -0.01 min
 Lab File: BM010804.D
 Acq: 13 Jul 2017 10:05

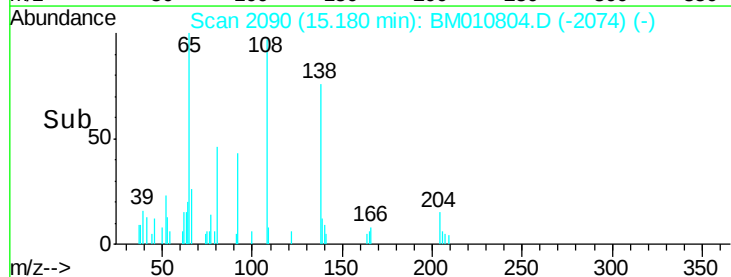
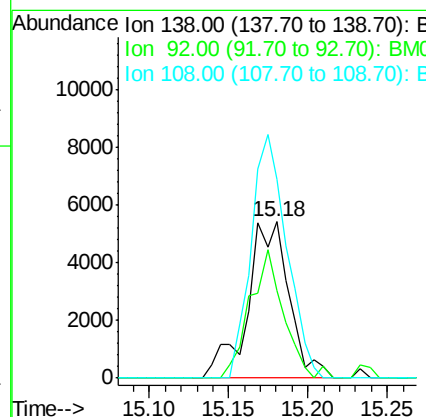
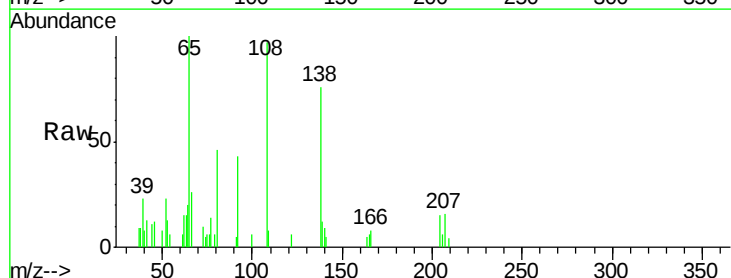
Instrument :
 BNA_M
 ClientSampleId :
 LOD-SOIL-01-QT3-2017

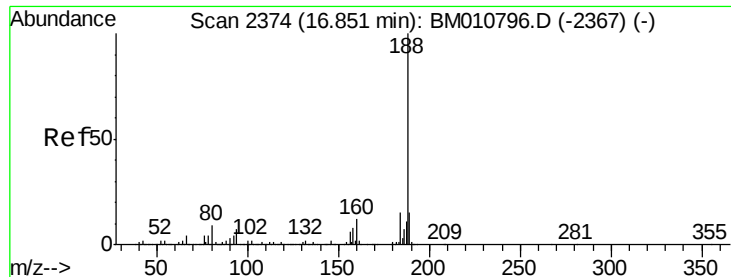
Tgt Ion: 204 Resp: 36164
 Ion Ratio Lower Upper
 204 100
 206 30.0 26.6 39.8
 141 49.6 45.2 67.8



#61
 4-Nitroaniline
 Concen: 1.525 ng
 RT: 15.18 min Scan# 2090
 Delta R.T. -0.01 min
 Lab File: BM010804.D
 Acq: 13 Jul 2017 10:05

Tgt Ion: 138 Resp: 9895
 Ion Ratio Lower Upper
 138 100
 92 56.2 16.7 56.7
 108 127.3 37.6 77.6#

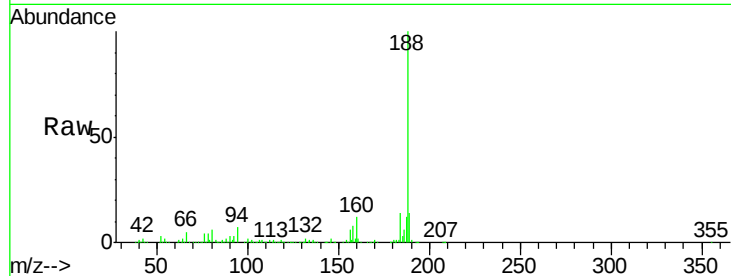




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.85 min Scan# 2374
Delta R.T. 0.00 min
Lab File: BM010804.D
Acq: 13 Jul 2017 10:05

Instrument :
BNA_M
ClientSampleId :
LOD-SOIL-01-QT3-2017

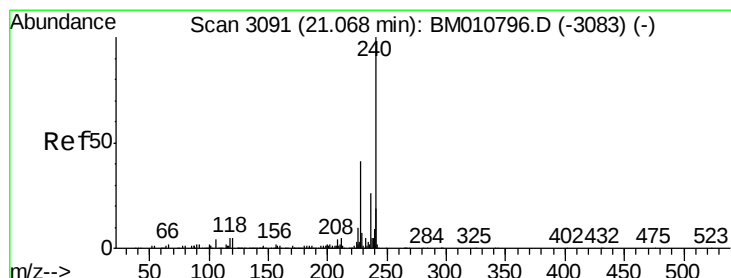
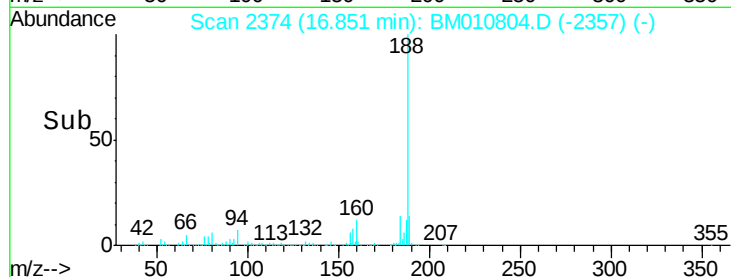
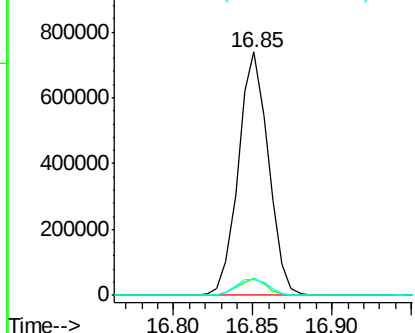
Tgt Ion	Ratio	Lower	Upper
188	100		
94	7.0	8.7	13.1#
80	6.4	9.3	13.9#



Abundance Ion 188.00 (187.70 to 188.70): E

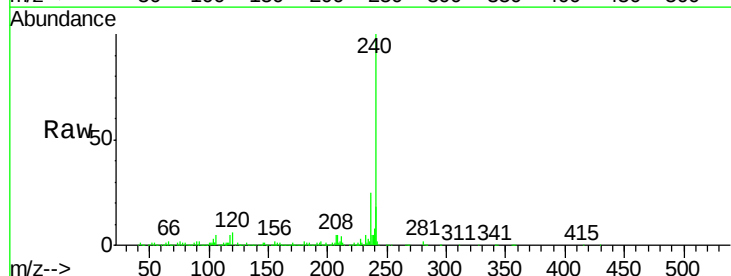
Ion 94.00 (93.70 to 94.70): BM0

Ion 80.00 (79.70 to 80.70): BM0



#75
Chrysene-d12
Concen: 20.000 ng
RT: 21.06 min Scan# 3090
Delta R.T. -0.01 min
Lab File: BM010804.D
Acq: 13 Jul 2017 10:05

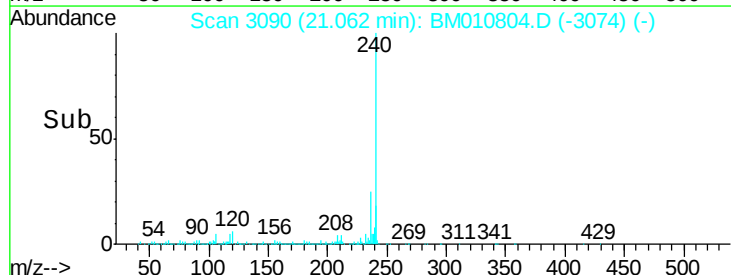
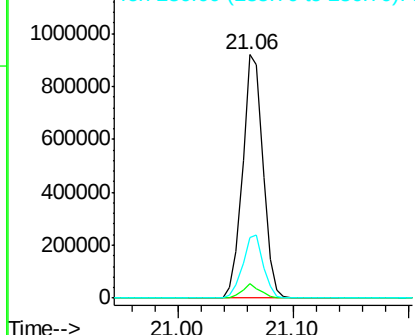
Tgt Ion	Ratio	Lower	Upper
240	100		
120	5.7	8.2	12.2#
236	24.9	20.0	30.0

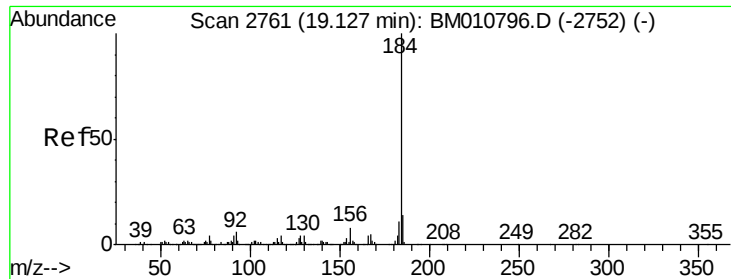


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

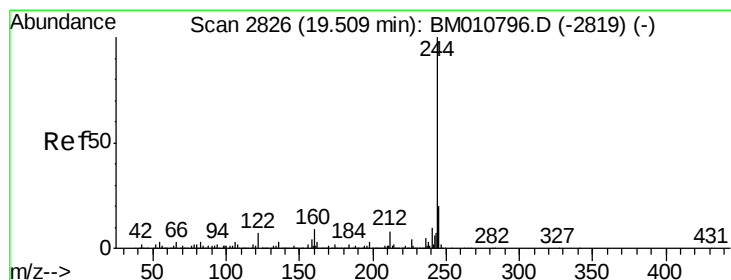
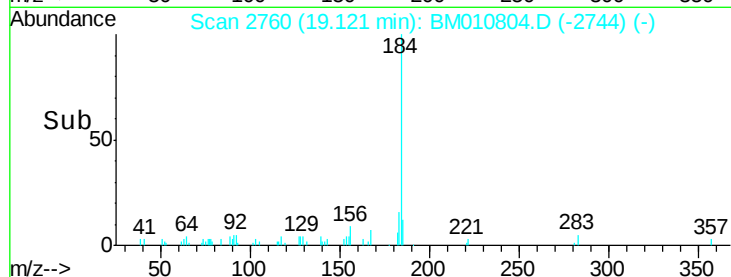
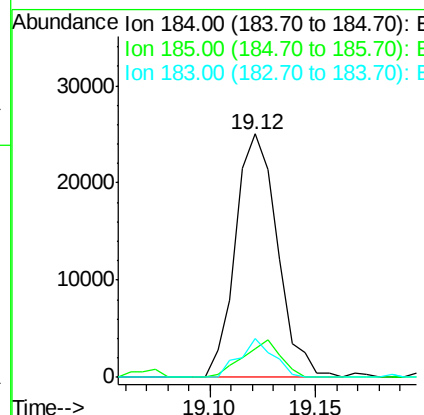
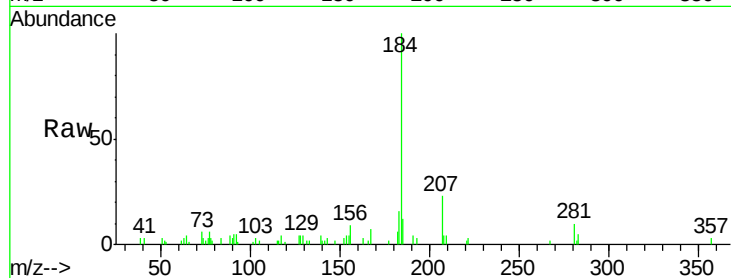




#76
Benzidine
Concen: 1.141 ng
RT: 19.12 min Scan# 2760
Delta R.T. -0.01 min
Lab File: BM010804.D
Acq: 13 Jul 2017 10:05

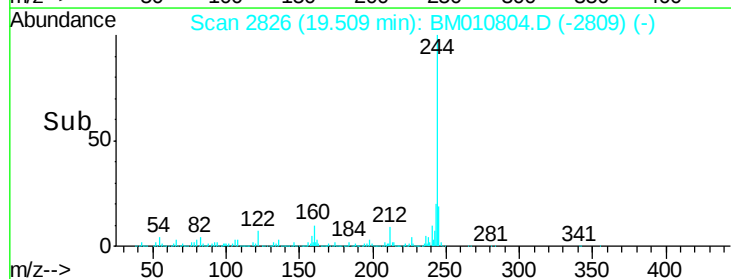
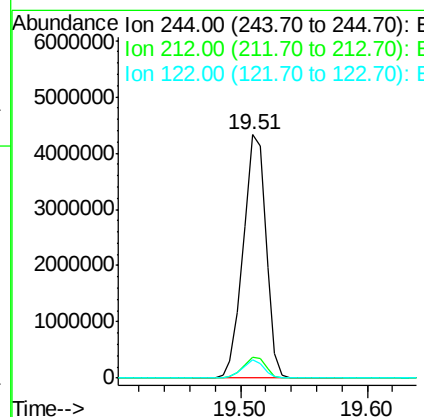
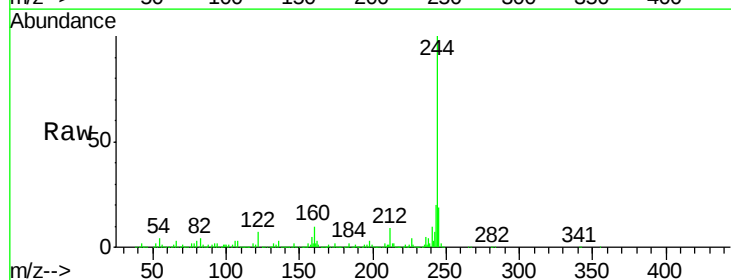
Instrument :
BNA_M
ClientSampleId :
LOD-SOIL-01-QT3-2017

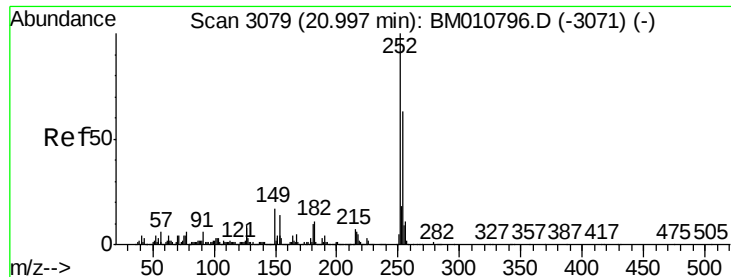
Tgt Ion:184 Resp: 34479
Ion Ratio Lower Upper
184 100
185 11.6 11.3 16.9
183 15.8 8.9 13.3#



#78
Terphenyl-d14
Concen: 91.876 ng
RT: 19.51 min Scan# 2826
Delta R.T. 0.00 min
Lab File: BM010804.D
Acq: 13 Jul 2017 10:05

Tgt Ion:244 Resp: 5363077
Ion Ratio Lower Upper
244 100
212 8.7 4.9 7.3#
122 7.3 6.2 9.4

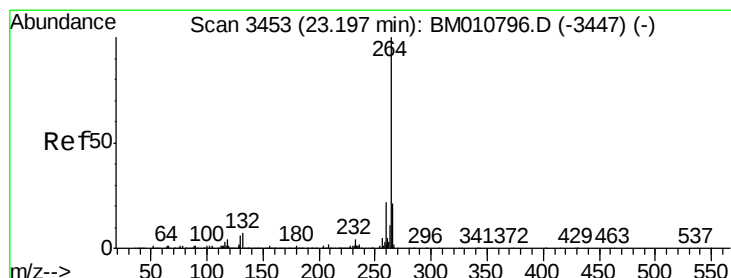
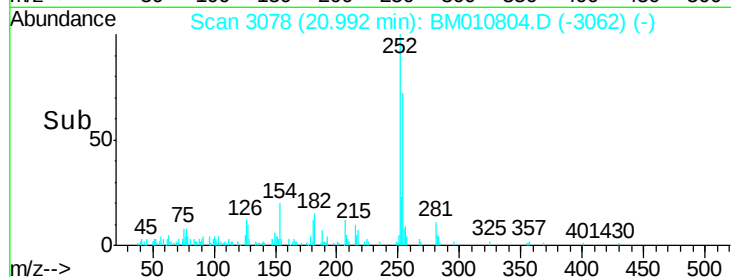
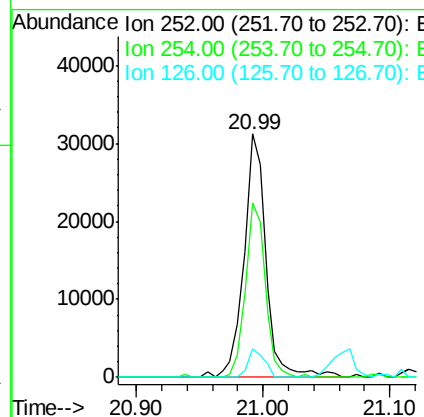
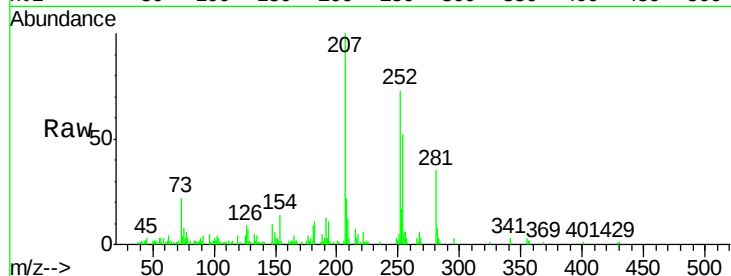




#81
 3,3'-Dichlorobenzidine
 Concen: 1.458 ng
 RT: 20.99 min Scan# 3078
 Delta R.T. -0.01 min
 Lab File: BM010804.D
 Acq: 13 Jul 2017 10:05

Instrument :
 BNA_M
 ClientSampleId :
 LOD-SOIL-01-QT3-2017

Tgt Ion:	252	Resp:	37515
Ion Ratio	Lower	Upper	
252	100		
254	71.5	51.9	77.9
126	11.6	9.8	14.8



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 23.20 min Scan# 3453
 Delta R.T. 0.00 min
 Lab File: BM010804.D
 Acq: 13 Jul 2017 10:05

Tgt Ion:	264	Resp:	1050682
Ion Ratio	Lower	Upper	
264	100		
260	23.4	18.6	27.8
265	20.7	17.3	25.9

