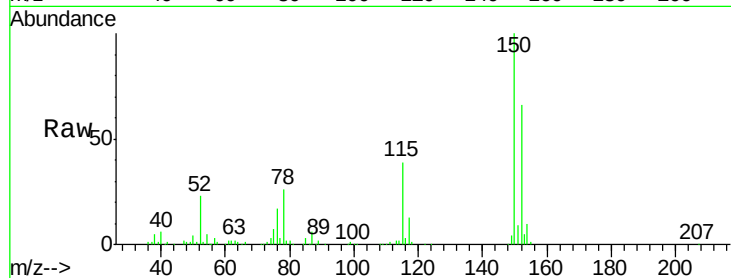


#1

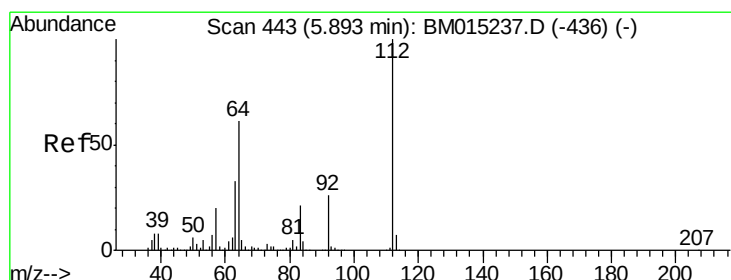
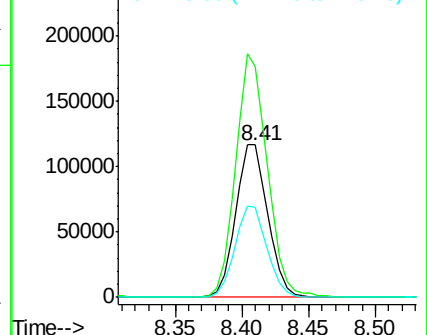
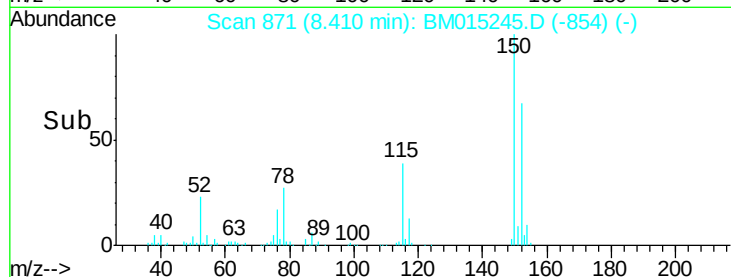
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.41 min Scan# 871
Delta R.T. 0.00 min
Lab File: BM015245.D
Acq: 22 May 2018 18:09

Instrument :
BNA_M
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2018

Tgt Ion:152 Resp: 195218
Ion Ratio Lower Upper
152 100
150 151.1 119.5 179.3
115 59.0 43.0 64.4



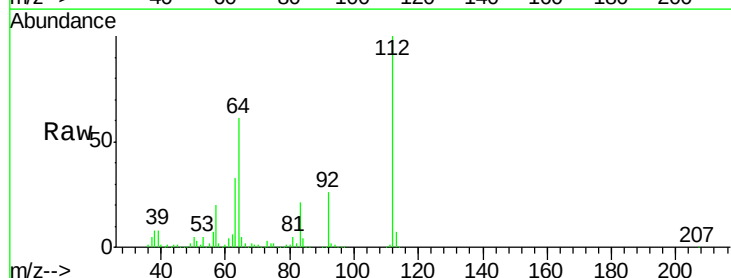
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



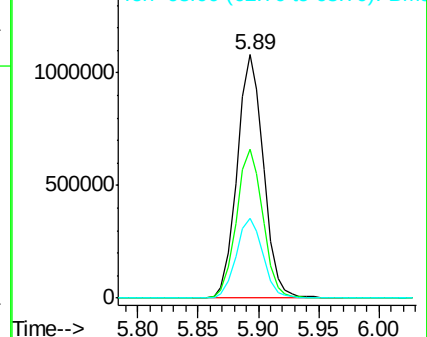
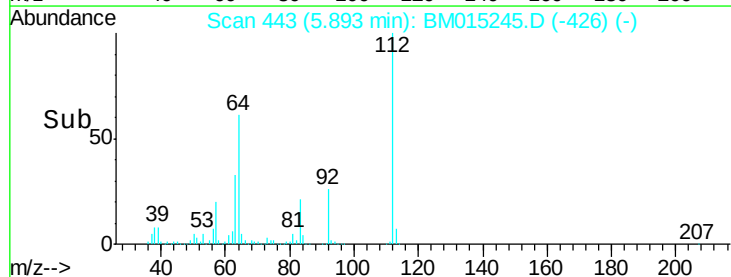
#5

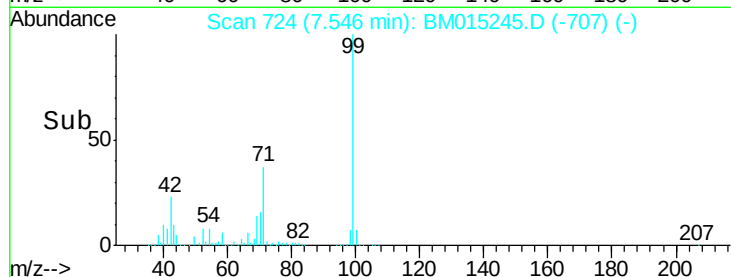
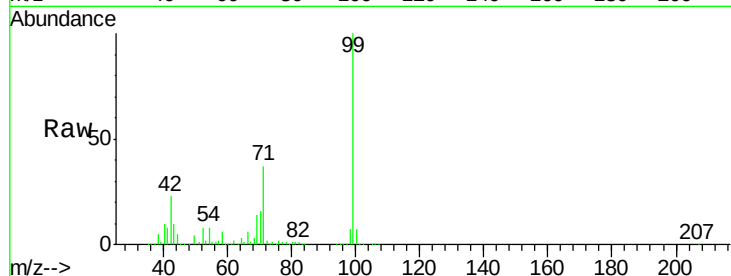
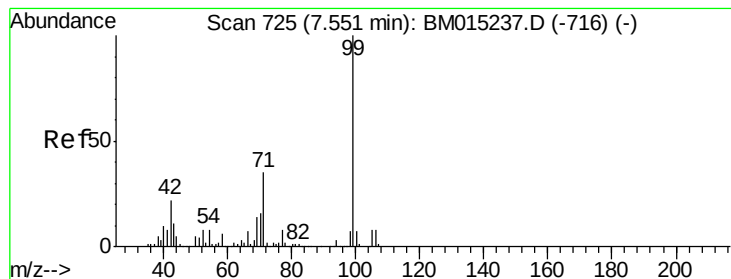
2-Fluorophenol
Concen: 138.078 ng
RT: 5.89 min Scan# 443
Delta R.T. 0.00 min
Lab File: BM015245.D
Acq: 22 May 2018 18:09

Tgt Ion:112 Resp: 1647555
Ion Ratio Lower Upper
112 100
64 61.4 38.6 57.8#
63 32.5 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: 135.360 ng

RT: 7.55 min Scan# 724

Delta R.T. 0.00 min

Lab File: BM015245.D

Acq: 22 May 2018 18:09

Instrument :

BNA_M

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2018

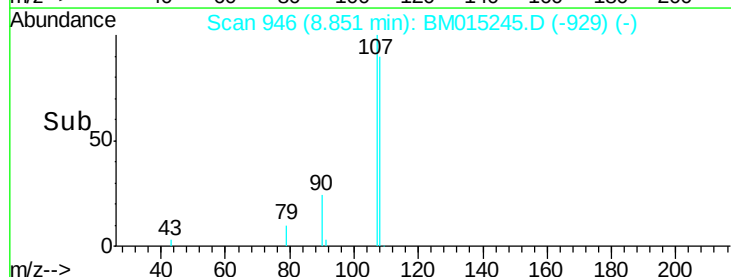
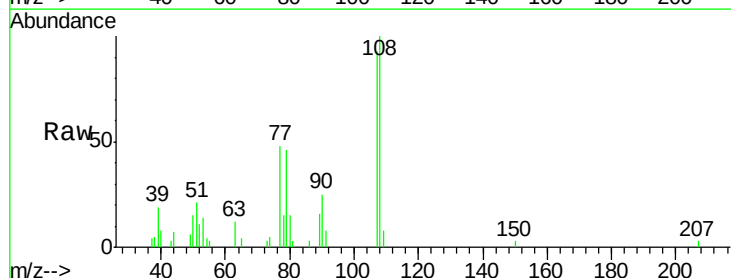
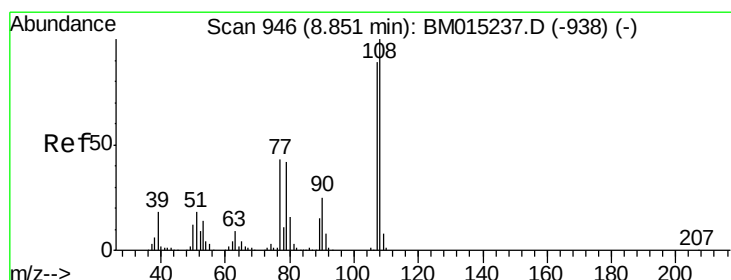
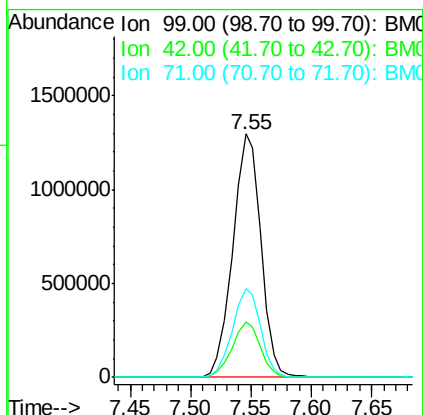
Tgt Ion: 99 Resp: 2103202

Ion Ratio Lower Upper

99 100

42 22.6 11.0 16.4#

71 36.6 23.4 35.2#



#17

2-Methylphenol

Concen: 1.893 ng

RT: 8.85 min Scan# 946

Delta R.T. 0.00 min

Lab File: BM015245.D

Acq: 22 May 2018 18:09

Tgt Ion: 107 Resp: 19861

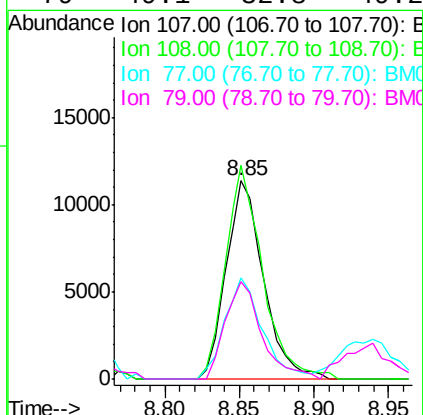
Ion Ratio Lower Upper

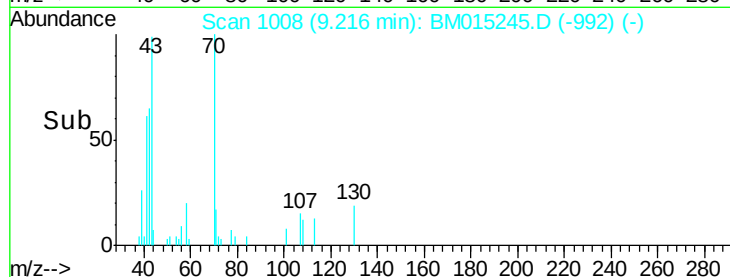
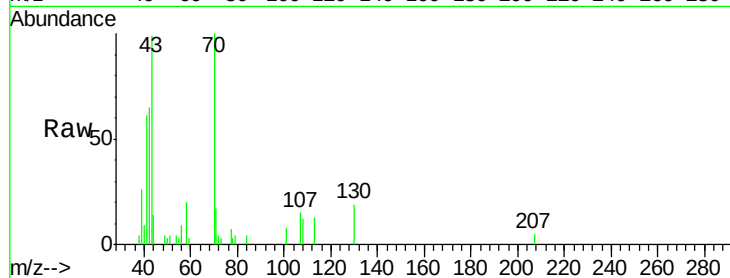
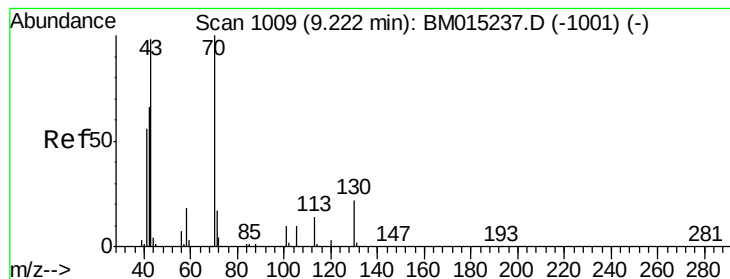
107 100

108 107.8 89.8 134.8

77 51.4 32.6 48.8#

79 49.1 32.8 49.2





#19

n-Nitroso-di-n-propylamine

Concen: 1.762 ng

RT: 9.22 min Scan# 1008

Delta R.T. -0.01 min

Lab File: BM015245.D

Acq: 22 May 2018 18:09

Instrument :

BNA_M

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2018

Tgt Ion: 70 Resp: 17448

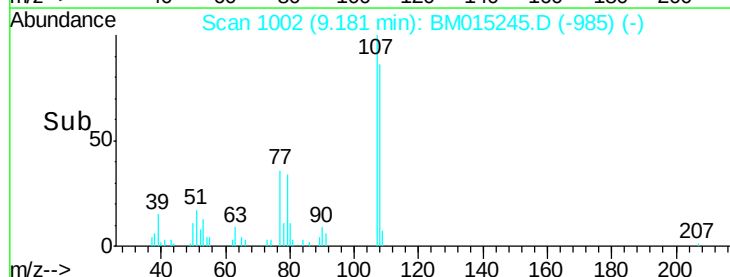
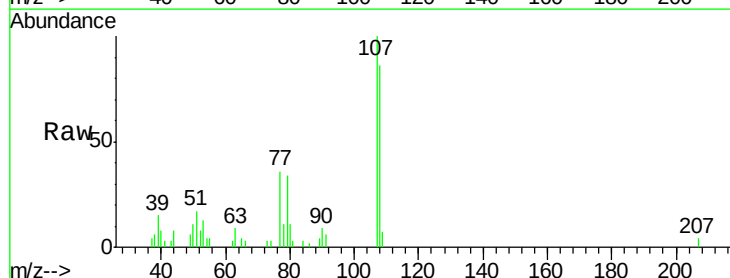
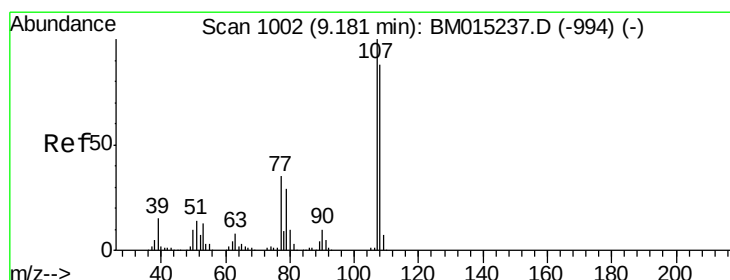
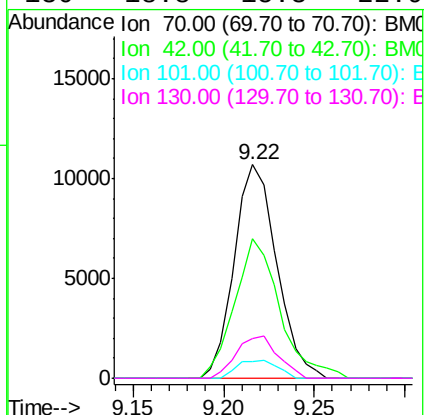
Ion Ratio Lower Upper

70 100

42 65.4 44.5 66.7

101 7.7 7.4 11.2

130 18.8 15.3 22.9



#20

3+4-Methylphenols

Concen: 1.844 ng

RT: 9.18 min Scan# 1002

Delta R.T. 0.00 min

Lab File: BM015245.D

Acq: 22 May 2018 18:09

Tgt Ion: 107 Resp: 25688

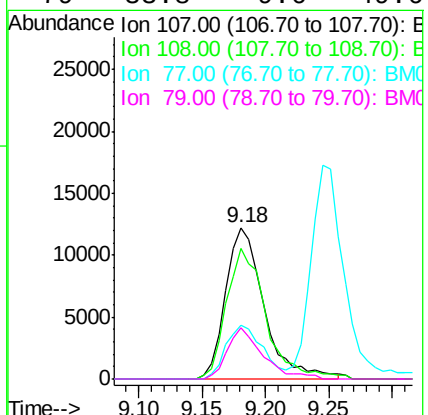
Ion Ratio Lower Upper

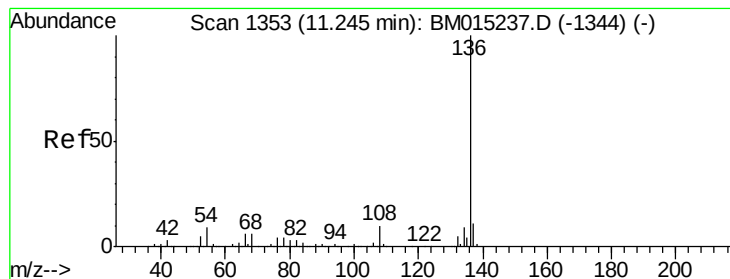
107 100

108 86.4 73.2 113.2

77 35.6 10.7 50.7

79 33.8 9.6 49.6





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 11.25 min Scan# 1353

Delta R.T. 0.00 min

Lab File: BM015245.D

Acq: 22 May 2018 18:09

Instrument :

BNA_M

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2018

Tgt Ion:136 Resp: 784531

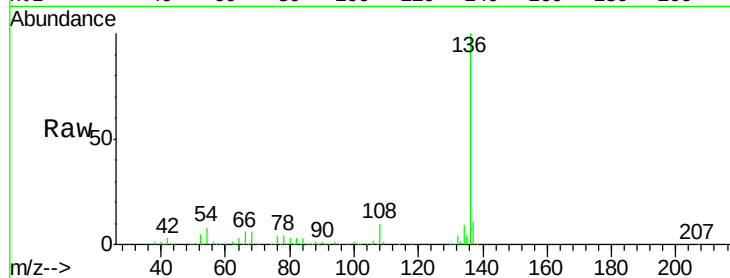
Ion Ratio Lower Upper

136 100

137 10.5 8.7 13.1

54 8.4 4.6 6.8#

68 5.9 3.7 5.5#

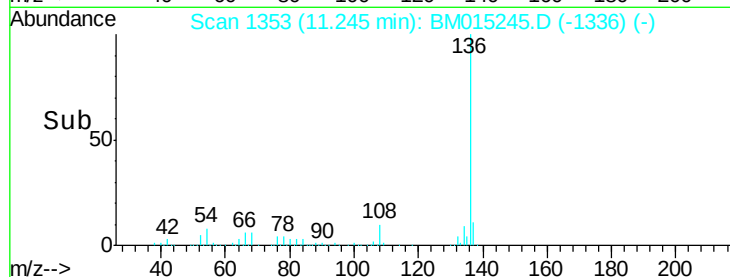


Abundance Ion 136.00 (135.70 to 136.70): E

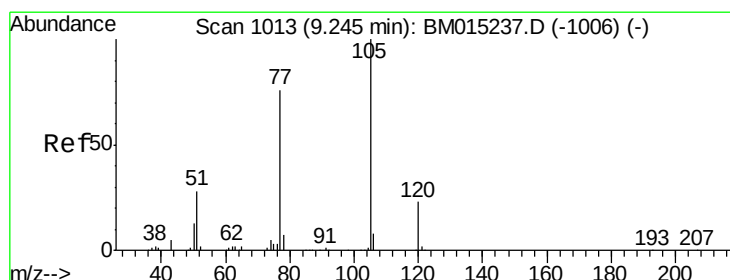
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BM0

Ion 68.00 (67.70 to 68.70): BM0



Time-->



#22

Acetophenone

Concen: 1.981 ng

RT: 9.25 min Scan# 1013

Delta R.T. 0.00 min

Lab File: BM015245.D

Acq: 22 May 2018 18:09

Tgt Ion:105 Resp: 37288

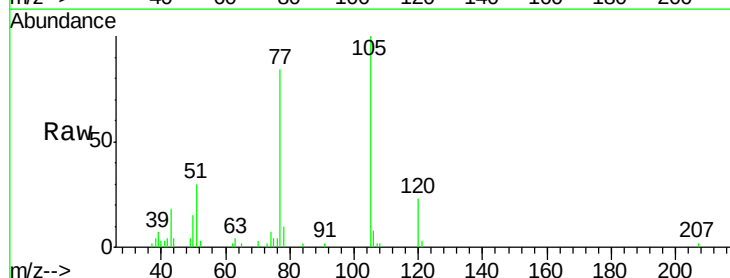
Ion Ratio Lower Upper

105 100

71 0.0 0.6 1.0#

51 30.2 21.6 32.4

120 23.4 16.1 24.1

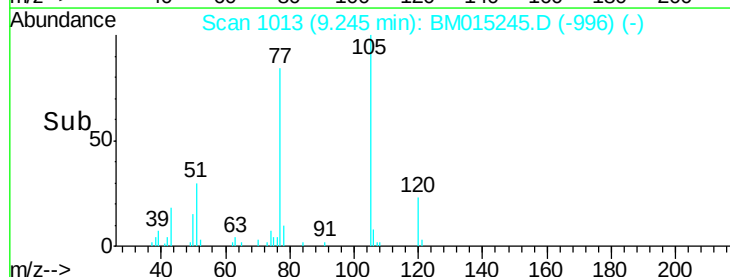


Abundance Ion 105.00 (104.70 to 105.70): E

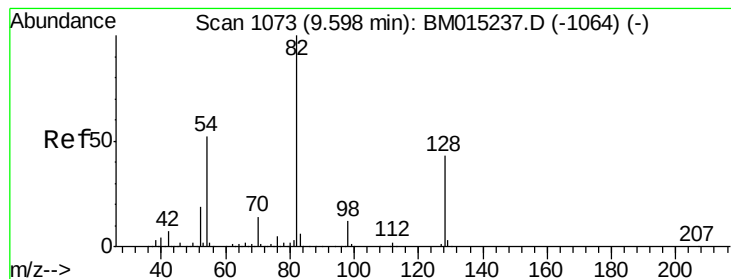
Ion 71.00 (70.70 to 71.70): BM0

Ion 51.00 (50.70 to 51.70): BM0

Ion 120.00 (119.70 to 120.70): E



Time-->



#23

Nitrobenzene-d5

Concen: 86.103 ng

RT: 9.59 min Scan# 1072

Delta R.T. 0.00 min

Lab File: BM015245.D

Acq: 22 May 2018 18:09

Instrument :

BNA_M

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2018

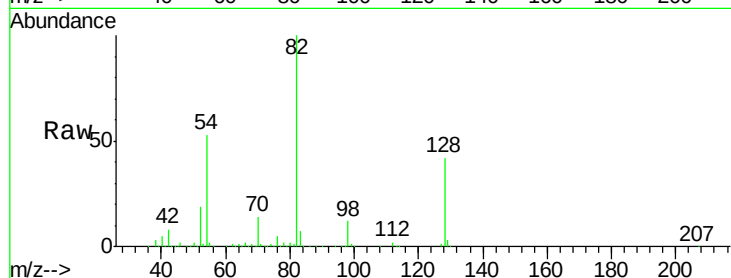
Tgt Ion: 82 Resp: 1233114

Ion Ratio Lower Upper

82 100

128 42.1 32.8 49.2

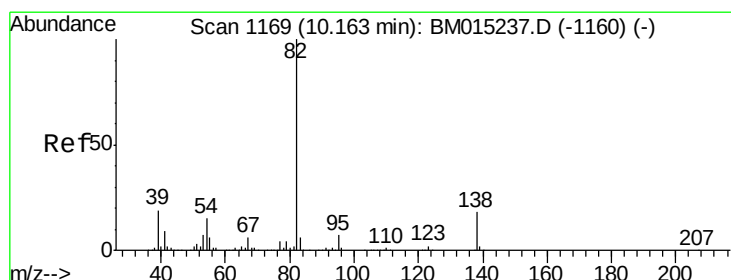
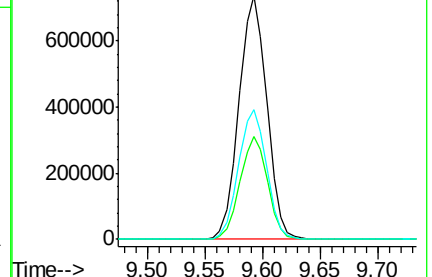
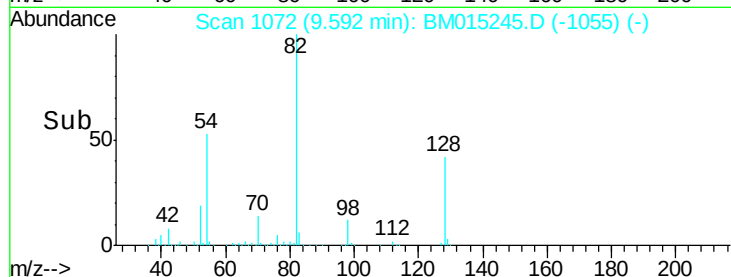
54 53.2 40.6 60.8



Abundance Ion 82.00 (81.70 to 82.70): BM015237.D (-1064) (-)

Ion 128.00 (127.70 to 128.70): BM015237.D (-1064) (-)

Ion 54.00 (53.70 to 54.70): BM015237.D (-1064) (-)



#25

Isophorone

Concen: 1.627 ng

RT: 10.16 min Scan# 1168

Delta R.T. 0.00 min

Lab File: BM015245.D

Acq: 22 May 2018 18:09

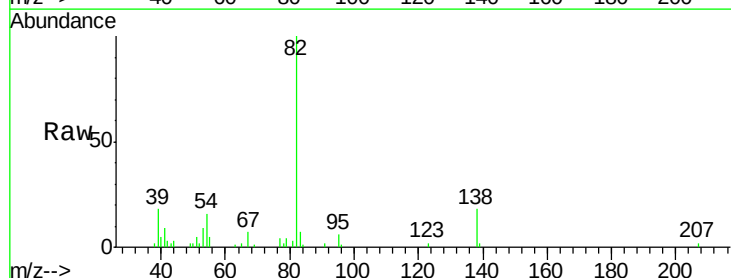
Tgt Ion: 82 Resp: 40023

Ion Ratio Lower Upper

82 100

95 5.9 5.8 8.6

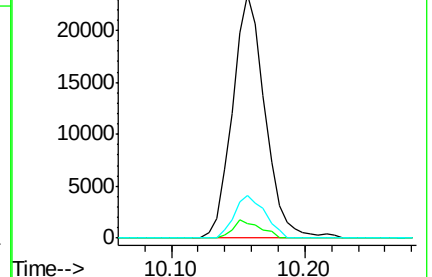
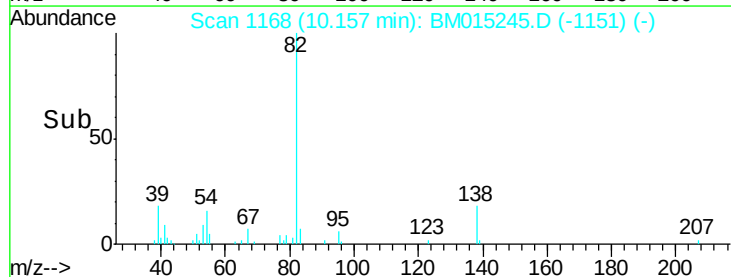
138 17.6 16.3 24.5

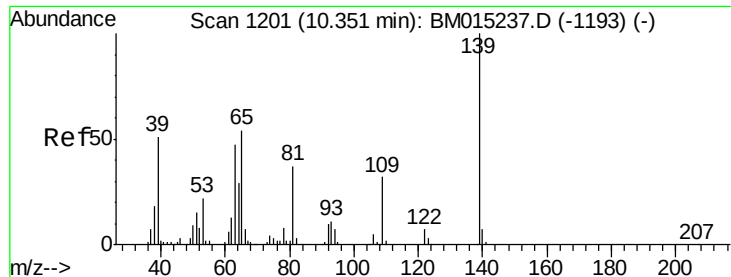


Abundance Ion 82.00 (81.70 to 82.70): BM015237.D (-1160) (-)

Ion 95.00 (94.70 to 95.70): BM015237.D (-1160) (-)

Ion 138.00 (137.70 to 138.70): BM015237.D (-1160) (-)

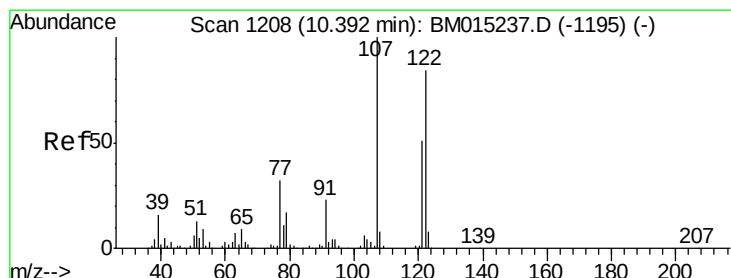
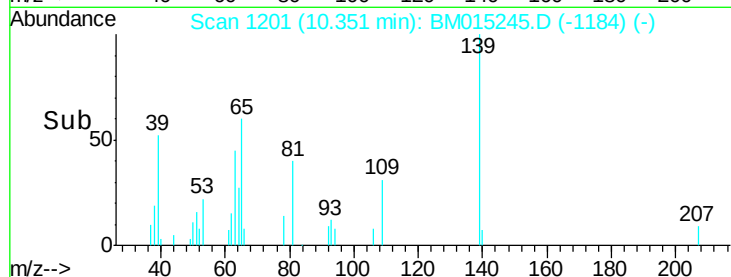
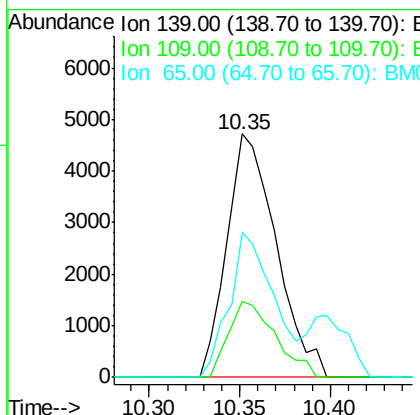
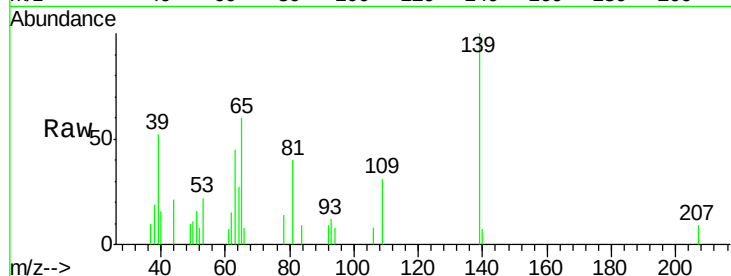




#26
2-Nitrophenol
Concen: 1.333 ng
RT: 10.35 min Scan# 1201
Delta R.T. 0.00 min
Lab File: BM015245.D
Acq: 22 May 2018 18:09

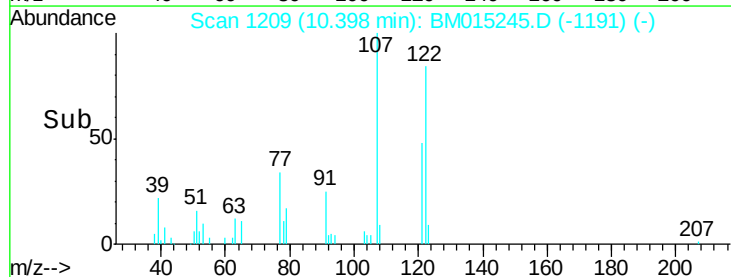
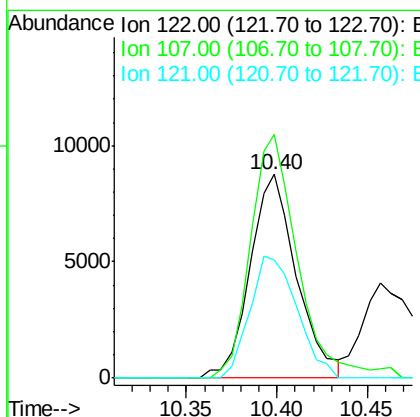
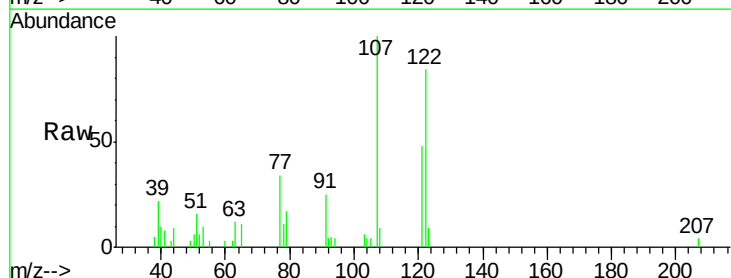
Instrument :
BNA_M
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2018

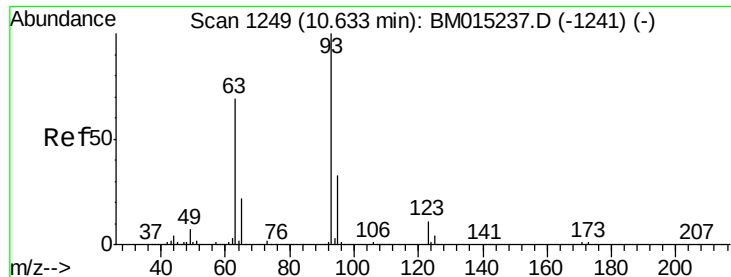
Tgt Ion:139 Resp: 8921
Ion Ratio Lower Upper
139 100
109 31.3 20.1 30.1#
65 59.5 31.5 47.3#



#27
2,4-Dimethylphenol
Concen: 1.290 ng
RT: 10.40 min Scan# 1209
Delta R.T. 0.01 min
Lab File: BM015245.D
Acq: 22 May 2018 18:09

Tgt Ion:122 Resp: 15651
Ion Ratio Lower Upper
122 100
107 119.6 84.7 127.1
121 57.8 46.6 69.8

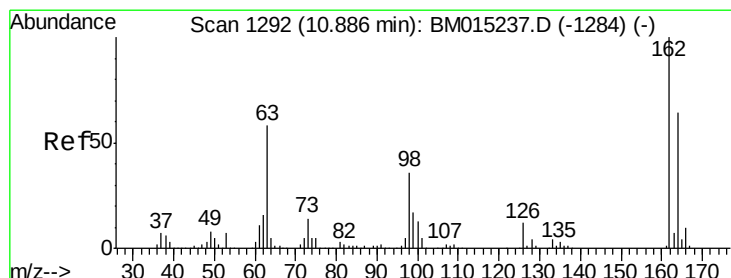
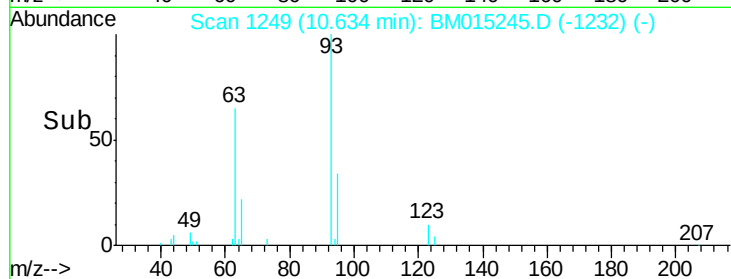
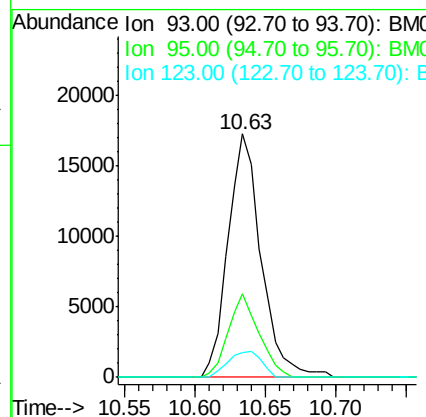
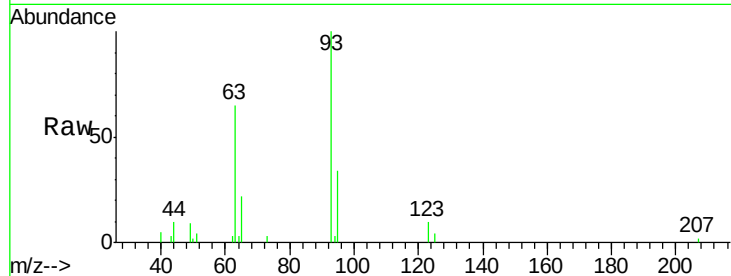




#28
bis(2-Chloroethoxy)methane
Concen: 1.752 ng
RT: 10.63 min Scan# 1249
Delta R.T. 0.00 min
Lab File: BM015245.D
Acq: 22 May 2018 18:09

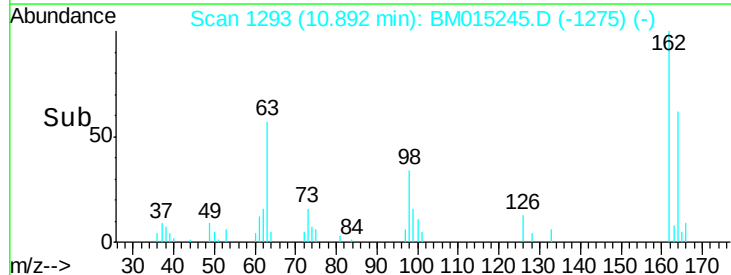
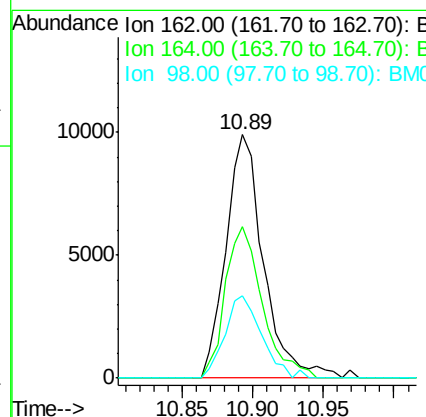
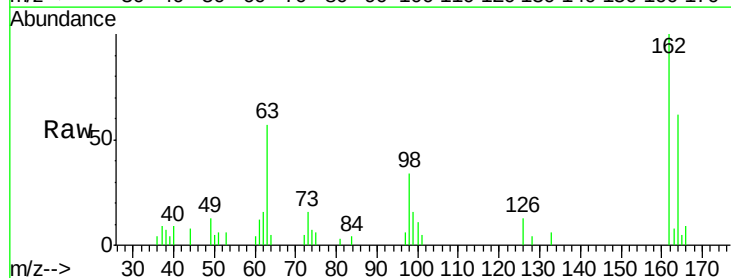
Instrument :
BNA_M
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2018

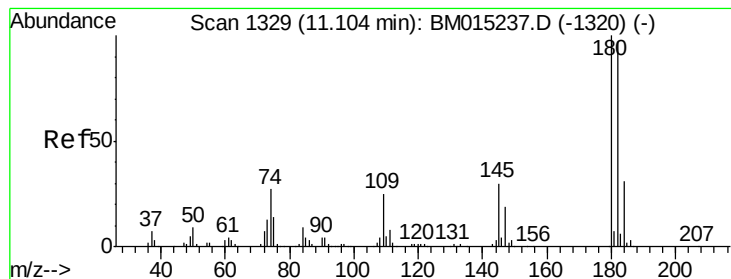
Tgt Ion: 93 Resp: 28224
Ion Ratio Lower Upper
93 100
95 34.3 25.5 38.3
123 10.1 8.6 13.0



#29
2,4-Dichlorophenol
Concen: 1.597 ng
RT: 10.89 min Scan# 1293
Delta R.T. 0.01 min
Lab File: BM015245.D
Acq: 22 May 2018 18:09

Tgt Ion: 162 Resp: 18356
Ion Ratio Lower Upper
162 100
164 62.4 42.8 82.8
98 33.8 14.5 54.5





#30

1,2,4-Trichlorobenzene

Concen: 2.071 ng

RT: 11.10 min Scan# 1329

Delta R.T. 0.00 min

Lab File: BM015245.D

Acq: 22 May 2018 18:09

Instrument :

BNA_M

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2018

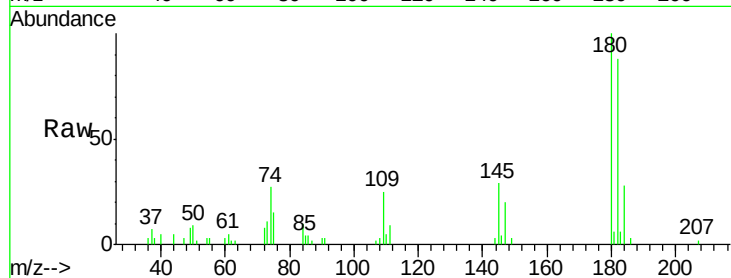
Tgt Ion:180 Resp: 28042

Ion Ratio Lower Upper

180 100

182 88.3 77.6 116.4

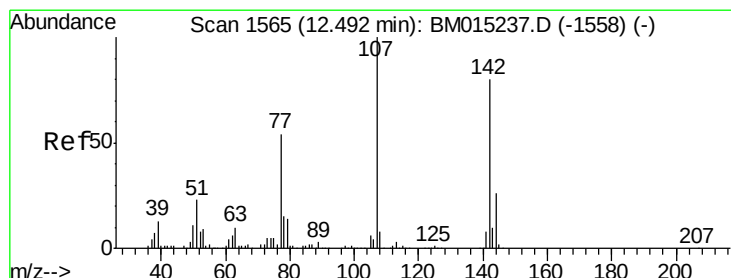
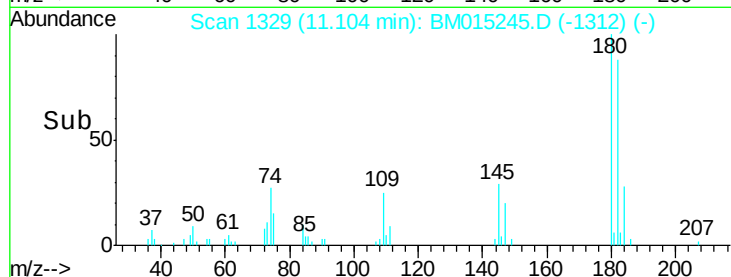
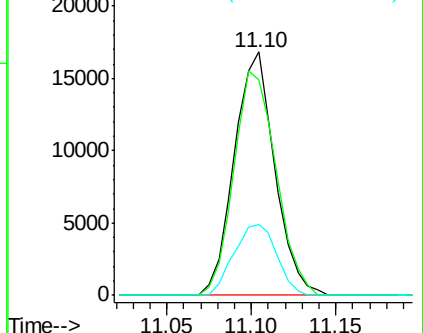
145 28.9 23.4 35.2



Abundance Ion 180.00 (179.70 to 180.70): E

Ion 182.00 (181.70 to 182.70): E

Ion 145.00 (144.70 to 145.70): E



#36

4-Chloro-3-methylphenol

Concen: 1.494 ng

RT: 12.50 min Scan# 1566

Delta R.T. 0.01 min

Lab File: BM015245.D

Acq: 22 May 2018 18:09

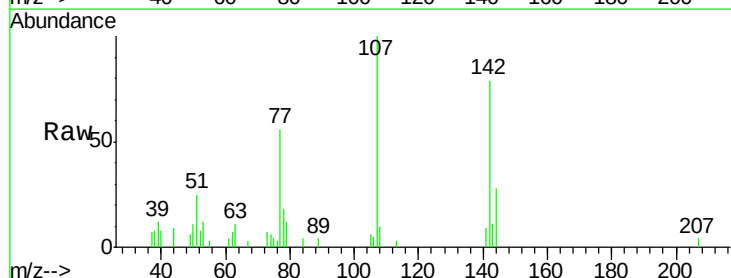
Tgt Ion:107 Resp: 17541

Ion Ratio Lower Upper

107 100

144 27.8 23.3 34.9

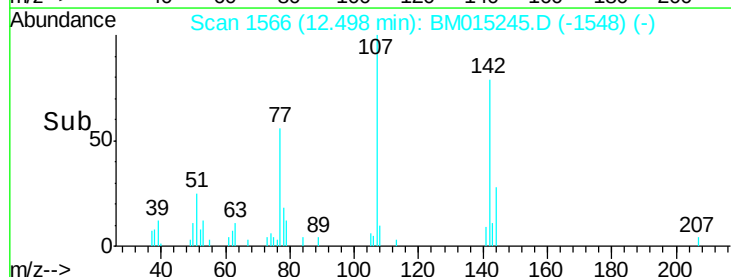
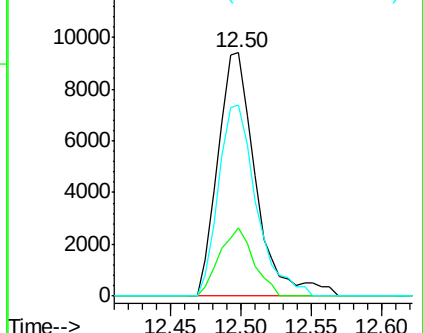
142 78.5 72.6 109.0

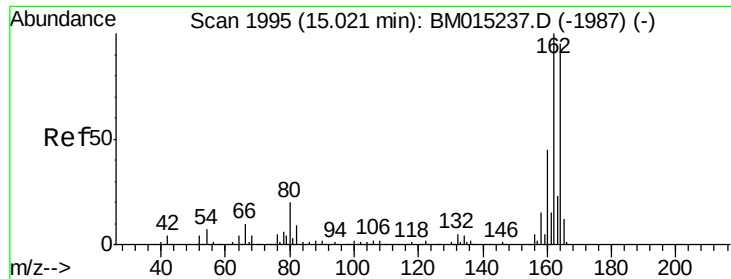


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 15.02 min Scan# 1994

Delta R.T. -0.01 min

Lab File: BM015245.D

Acq: 22 May 2018 18:09

Instrument :

BNA_M

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2018

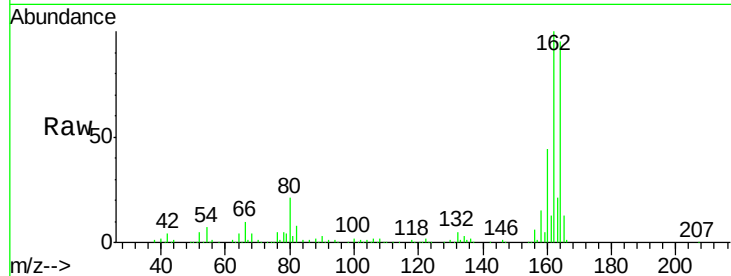
Tgt Ion:164 Resp: 405760

Ion Ratio Lower Upper

164 100

162 105.6 82.4 123.6

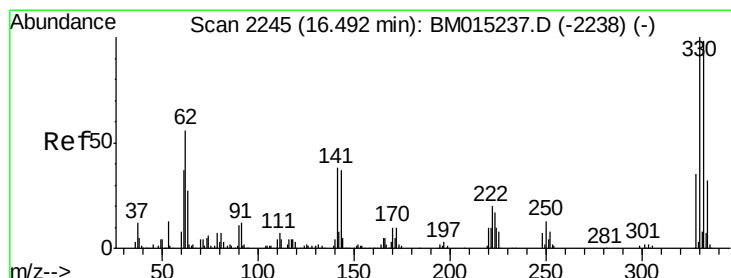
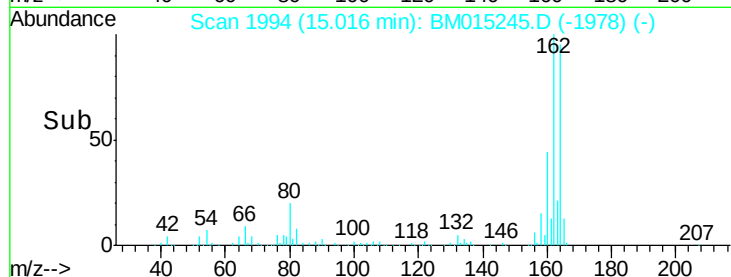
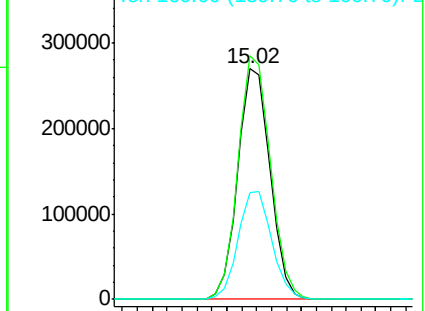
160 46.1 35.8 53.6



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: 145.934 ng

RT: 16.49 min Scan# 2245

Delta R.T. 0.00 min

Lab File: BM015245.D

Acq: 22 May 2018 18:09

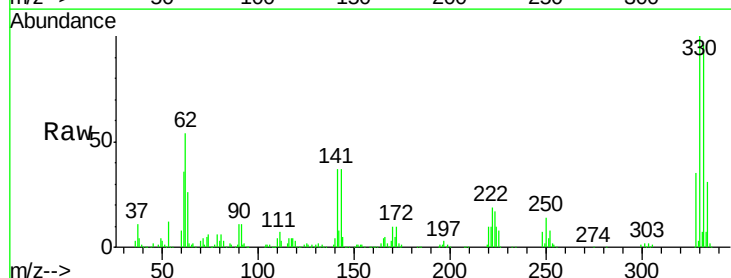
Tgt Ion:330 Resp: 742529

Ion Ratio Lower Upper

330 100

332 96.2 0.0 0.0#

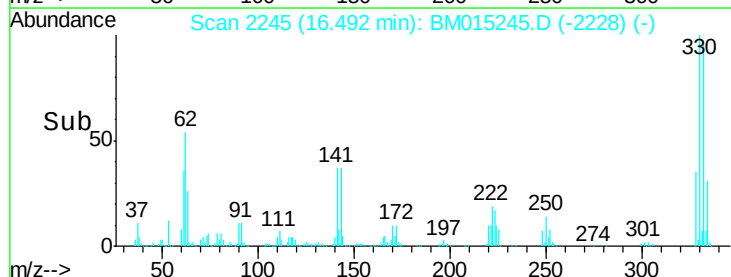
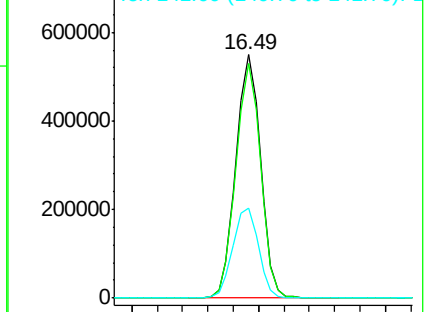
141 38.2 0.0 0.0#

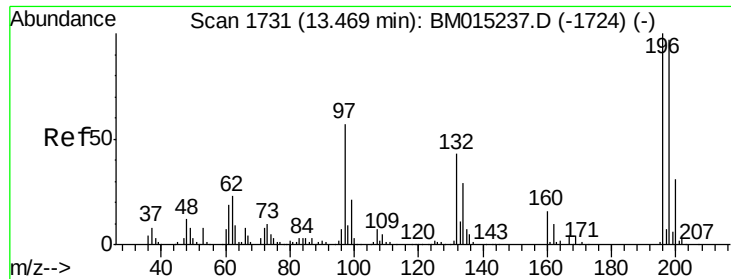


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

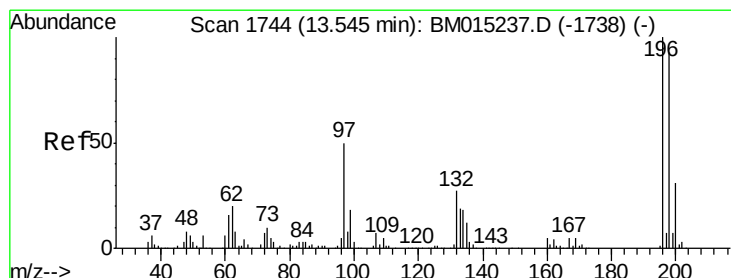
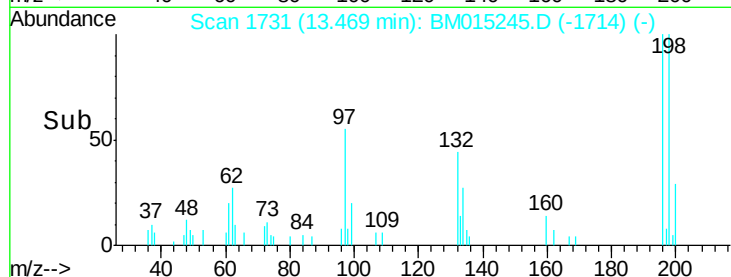
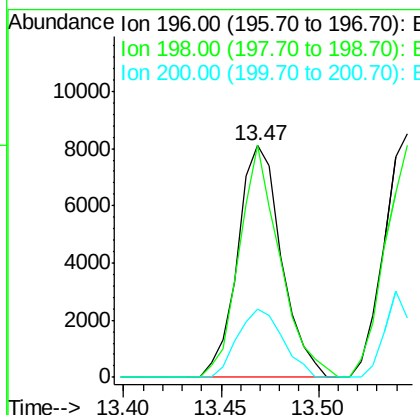
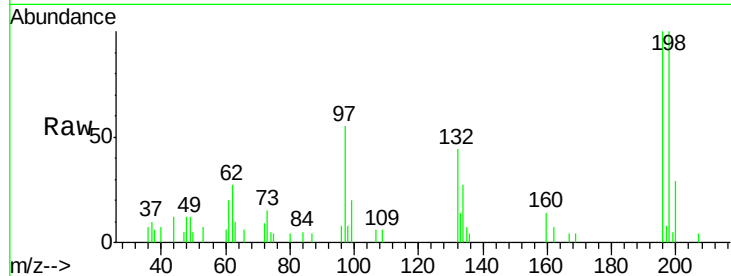




#42
2,4,6-Trichlorophenol
Concen: 1.467 ng
RT: 13.47 min Scan# 1731
Delta R.T. 0.00 min
Lab File: BM015245.D
Acq: 22 May 2018 18:09

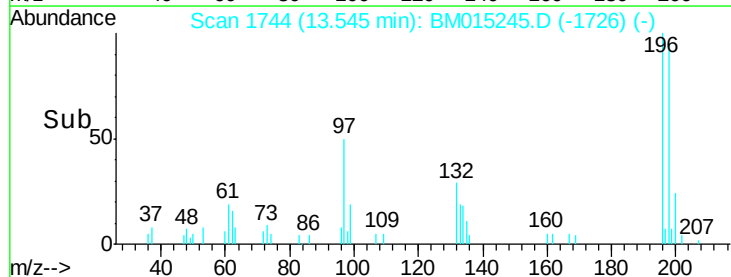
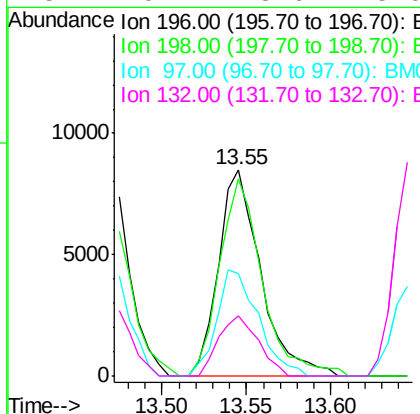
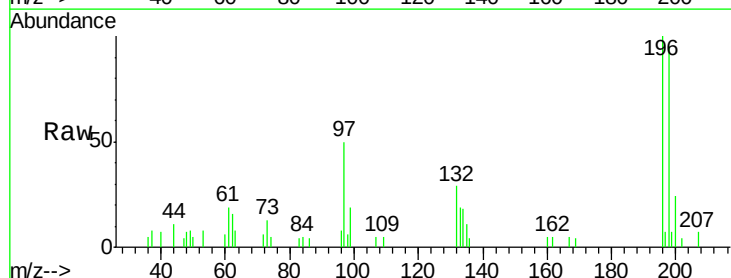
Instrument :
BNA_M
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2018

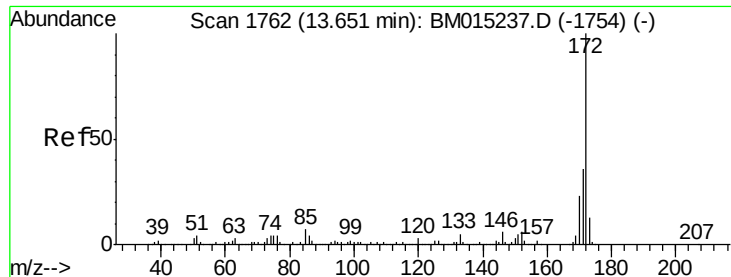
Tgt Ion:196 Resp: 12604
Ion Ratio Lower Upper
196 100
198 100.3 76.3 114.5
200 29.3 25.6 38.4



#43
2,4,5-Trichlorophenol
Concen: 1.601 ng
RT: 13.55 min Scan# 1744
Delta R.T. 0.01 min
Lab File: BM015245.D
Acq: 22 May 2018 18:09

Tgt Ion:196 Resp: 14852
Ion Ratio Lower Upper
196 100
198 95.3 79.4 119.0
97 49.9 26.8 40.2#
132 29.2 18.6 28.0#

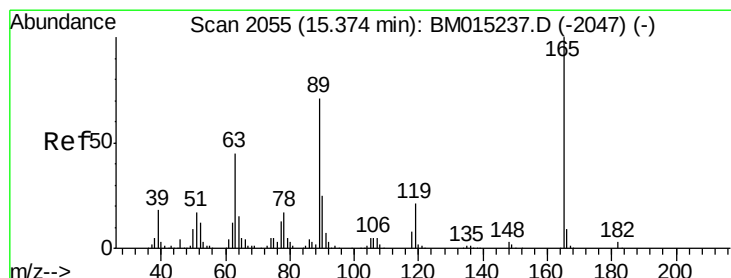
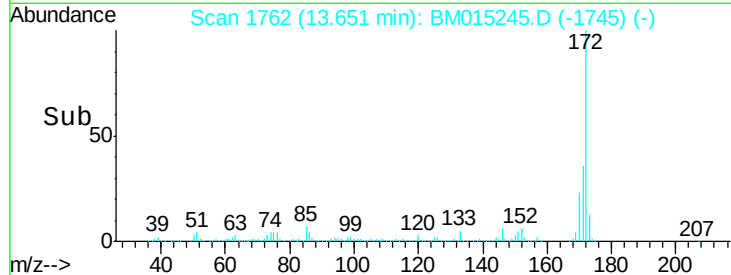
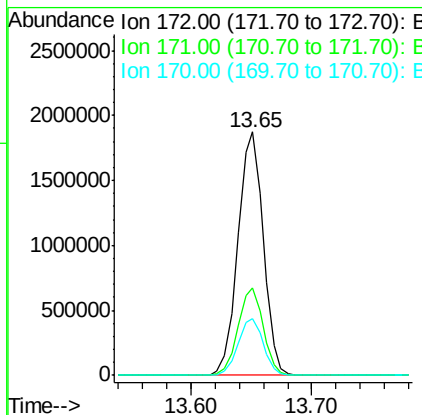
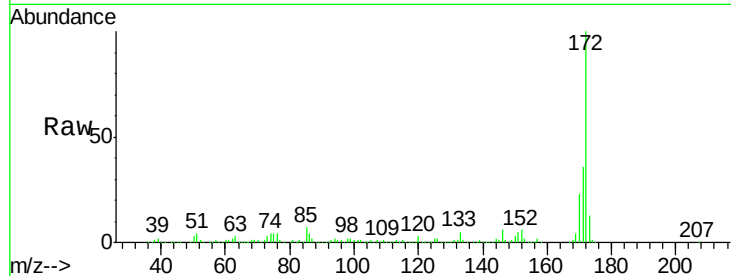




#44
 2-Fluorobiphenyl
 Concen: 84.111 ng
 RT: 13.65 min Scan# 1762
 Delta R.T. 0.00 min
 Lab File: BM015245.D
 Acq: 22 May 2018 18:09

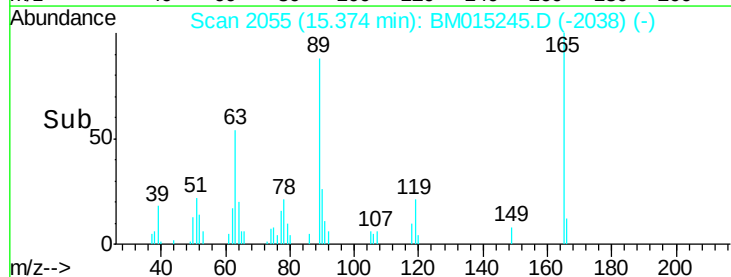
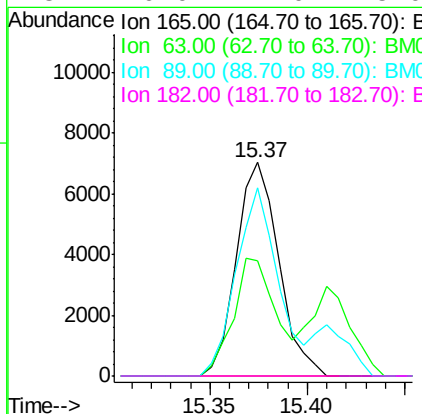
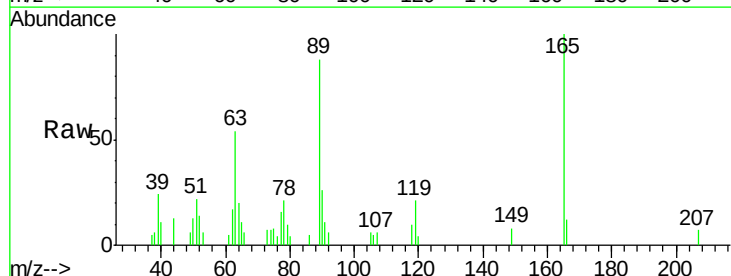
Instrument :
 BNA_M
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2018

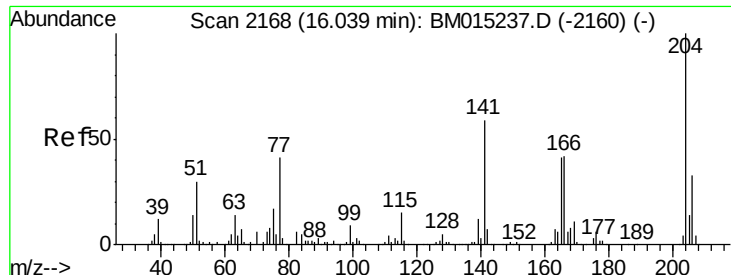
Tgt Ion:172 Resp: 2745398
 Ion Ratio Lower Upper
 172 100
 171 35.9 28.5 42.7
 170 23.4 18.8 28.2



#56
 2,4-Dinitrotoluene
 Concen: 1.143 ng
 RT: 15.37 min Scan# 2055
 Delta R.T. 0.00 min
 Lab File: BM015245.D
 Acq: 22 May 2018 18:09

Tgt Ion:165 Resp: 10571
 Ion Ratio Lower Upper
 165 100
 63 53.7 52.4 78.6
 89 88.1 72.4 108.6
 182 0.0 2.0 3.0#

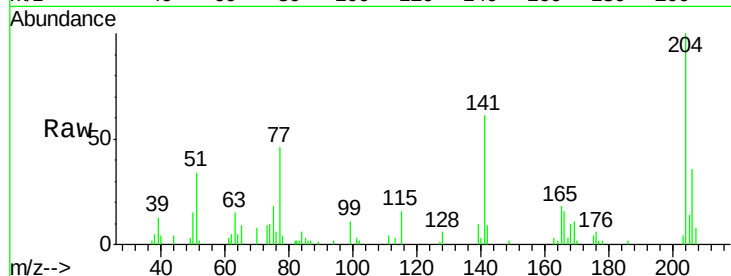




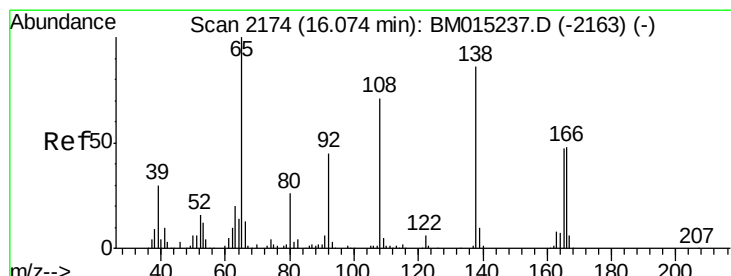
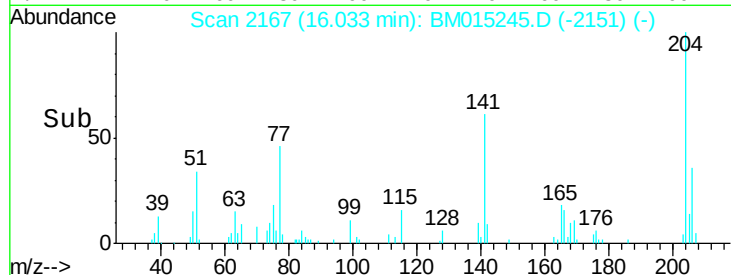
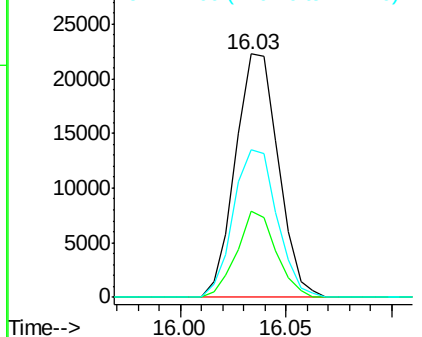
#60
 4-Chlorophenyl-phenylether
 Concen: 1.958 ng
 RT: 16.03 min Scan# 2167
 Delta R.T. -0.01 min
 Lab File: BM015245.D
 Acq: 22 May 2018 18:09

Instrument :
 BNA_M
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2018

Tgt Ion: 204 Resp: 31413
 Ion Ratio Lower Upper
 204 100
 206 35.5 26.6 39.8
 141 60.8 45.2 67.8

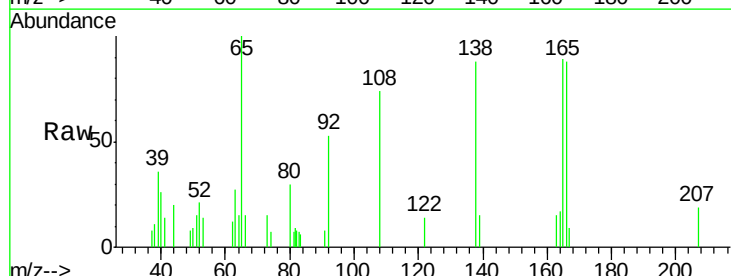


Abundance Ion 204.00 (203.70 to 204.70): E
 Ion 206.00 (205.70 to 206.70): E
 Ion 141.00 (140.70 to 141.70): E

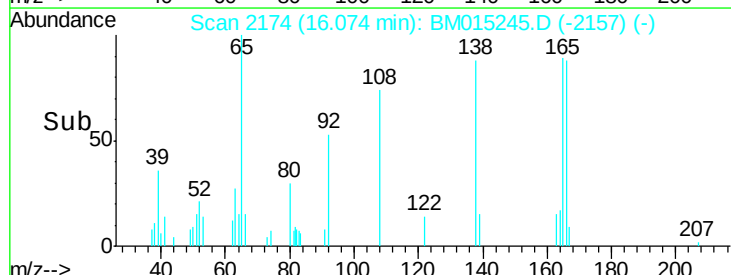
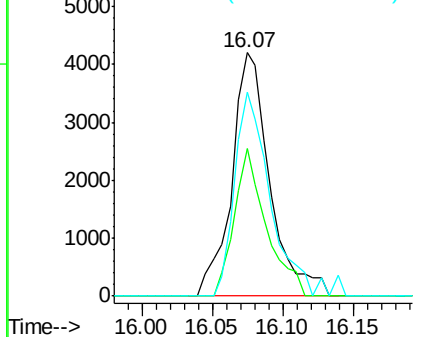


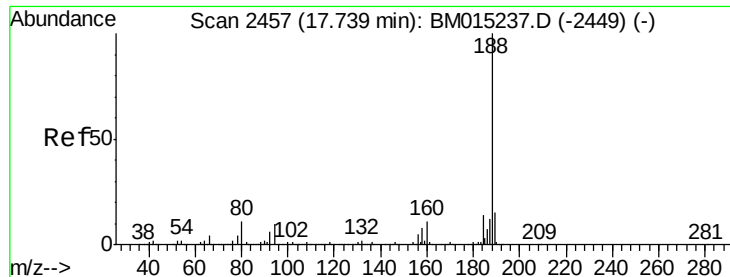
#61
 4-Nitroaniline
 Concen: 1.064 ng
 RT: 16.07 min Scan# 2174
 Delta R.T. 0.00 min
 Lab File: BM015245.D
 Acq: 22 May 2018 18:09

Tgt Ion: 138 Resp: 7914
 Ion Ratio Lower Upper
 138 100
 92 60.6 16.7 56.7#
 108 83.7 37.6 77.6#



Abundance Ion 138.00 (137.70 to 138.70): E
 Ion 92.00 (91.70 to 92.70): BM015245.D (-2157) (-)
 Ion 108.00 (107.70 to 108.70): E

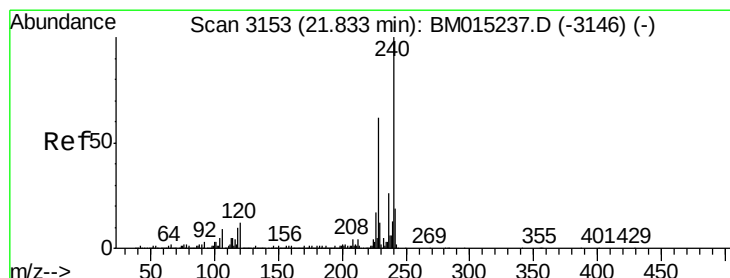
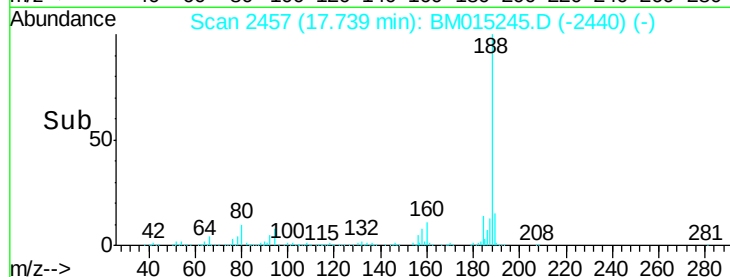
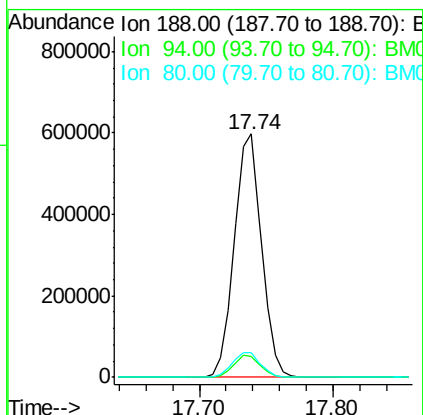
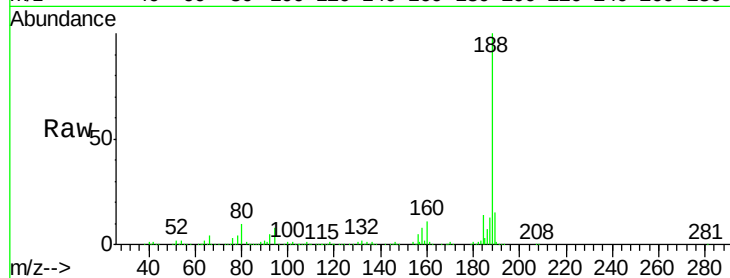




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.74 min Scan# 2457
Delta R.T. 0.00 min
Lab File: BM015245.D
Acq: 22 May 2018 18:09

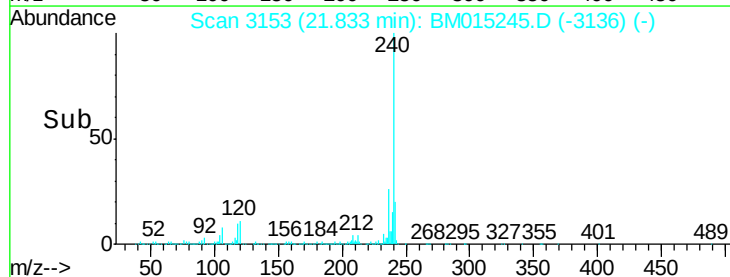
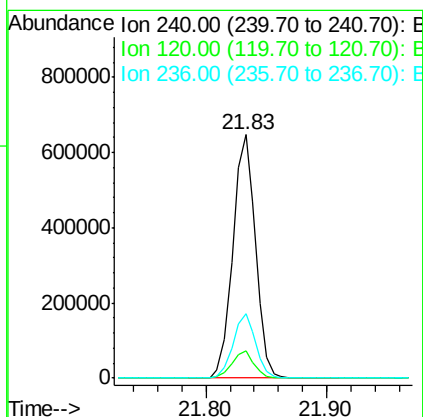
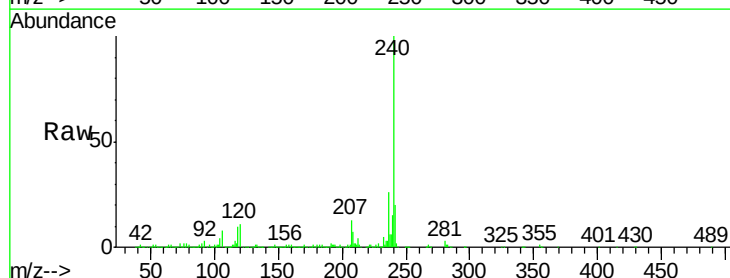
Instrument :
BNA_M
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2018

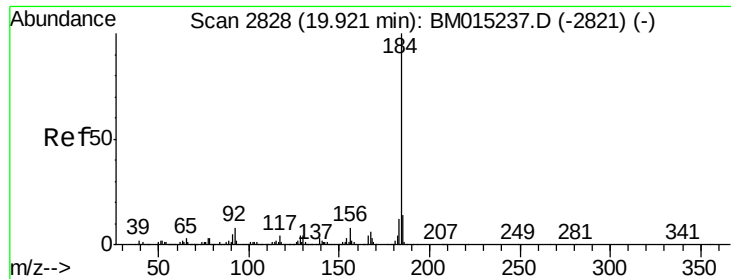
Tgt Ion:188 Resp: 850256
Ion Ratio Lower Upper
188 100
94 8.4 8.7 13.1#
80 10.1 9.3 13.9



#75
Chrysene-d12
Concen: 20.000 ng
RT: 21.83 min Scan# 3153
Delta R.T. 0.00 min
Lab File: BM015245.D
Acq: 22 May 2018 18:09

Tgt Ion:240 Resp: 844870
Ion Ratio Lower Upper
240 100
120 11.0 8.2 12.2
236 26.2 20.0 30.0





#76

Benzidine

Concen: 0.947 ng

RT: 19.92 min Scan# 2828

Delta R.T. 0.00 min

Lab File: BM015245.D

Acq: 22 May 2018 18:09

Instrument :

BNA_M

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2018

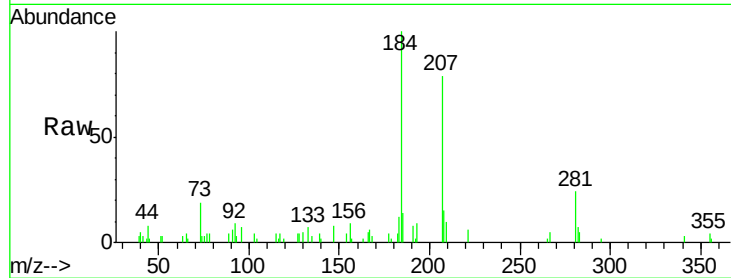
Tgt Ion:184 Resp: 25057

Ion Ratio Lower Upper

184 100

185 13.9 11.3 16.9

183 12.2 8.9 13.3

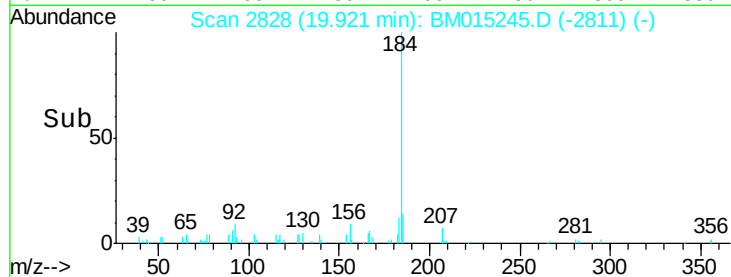


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E

Time--> 19.85 19.90 19.95 20.00



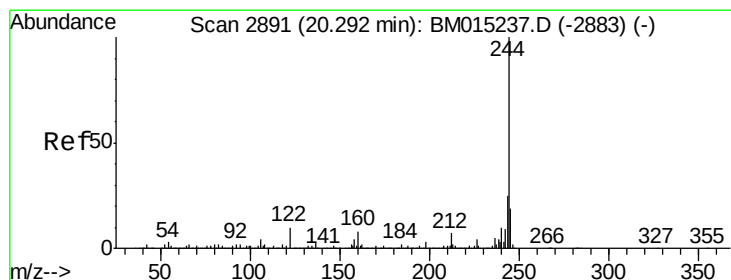
Abundance

Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E

Time--> 19.85 19.90 19.95 20.00



#78

Terphenyl-d14

Concen: 95.208 ng

RT: 20.29 min Scan# 2890

Delta R.T. 0.00 min

Lab File: BM015245.D

Acq: 22 May 2018 18:09

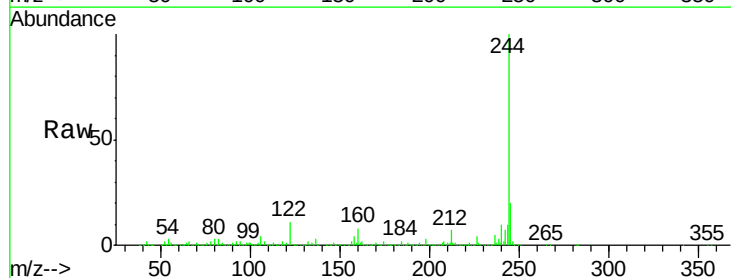
Tgt Ion:244 Resp: 3642673

Ion Ratio Lower Upper

244 100

212 7.4 4.9 7.3#

122 11.4 6.2 9.4#

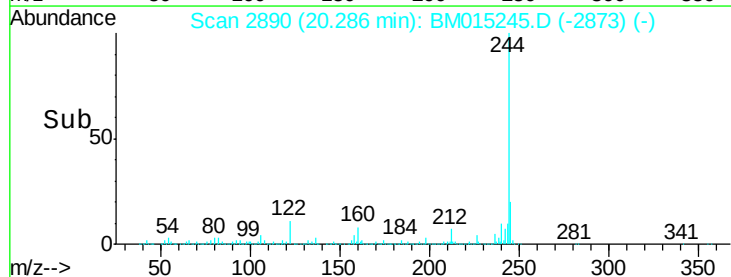


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

Time--> 20.20 20.30 20.40



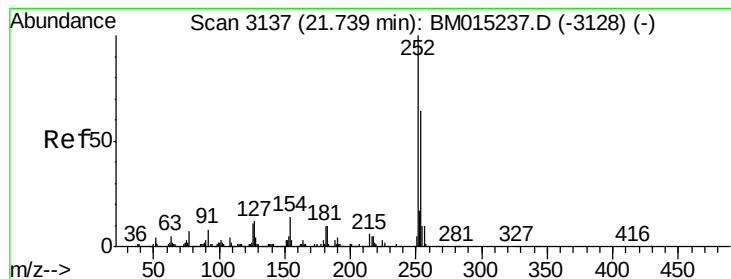
Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

Time--> 20.20 20.30 20.40



#81

3,3'-Dichlorobenzidine

Concen: 1.770 ng

RT: 21.74 min Scan# 3137

Delta R.T. 0.00 min

Lab File: BM015245.D

Acq: 22 May 2018 18:09

Instrument :

BNA_M

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2018

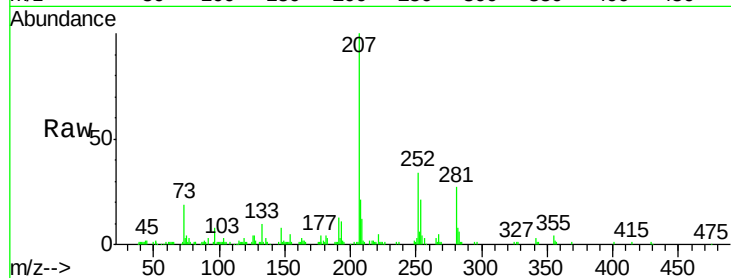
Tgt Ion:252 Resp: 34900

Ion Ratio Lower Upper

252 100

254 63.0 51.9 77.9

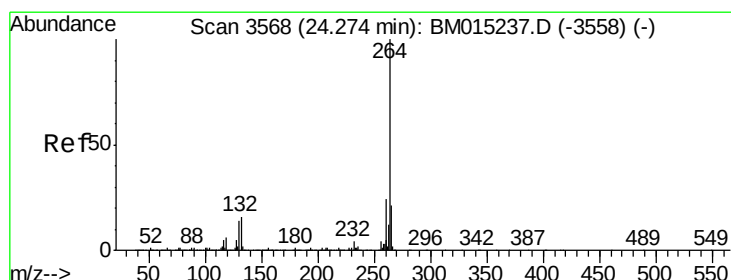
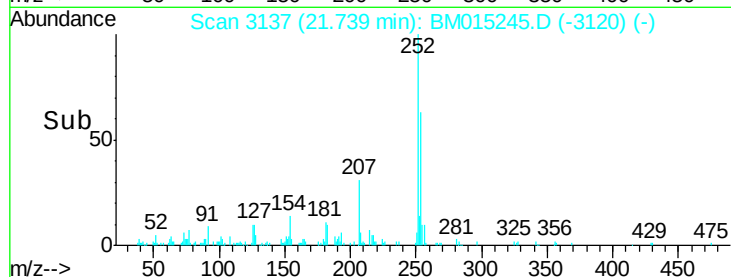
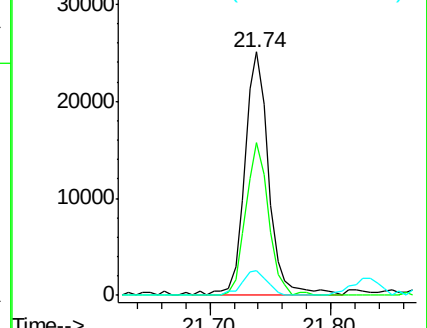
126 10.3 9.8 14.8



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.27 min Scan# 3568

Delta R.T. 0.00 min

Lab File: BM015245.D

Acq: 22 May 2018 18:09

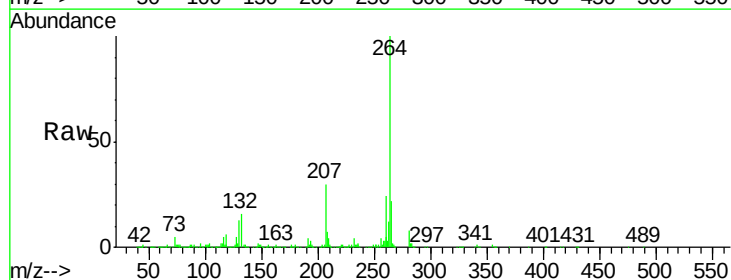
Tgt Ion:264 Resp: 864554

Ion Ratio Lower Upper

264 100

260 23.8 18.6 27.8

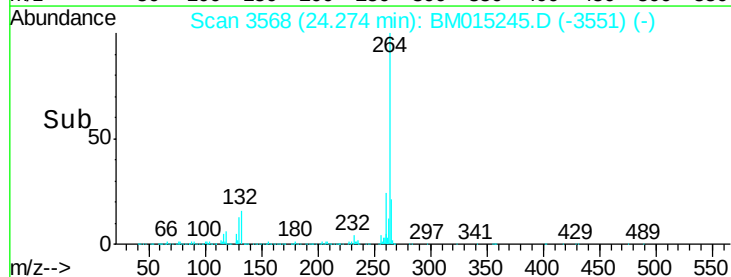
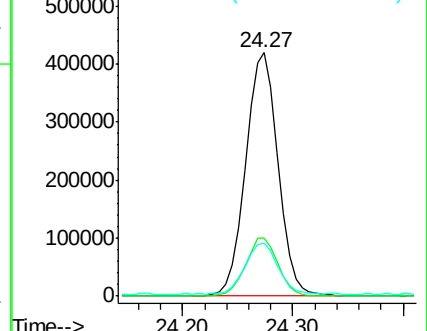
265 22.0 17.3 25.9



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052218\
 Data File : BM015245.D
 Acq On : 22 May 2018 18:09
 Operator : SJ/JU
 Sample : J2133-01
 Misc : LOD 2 PPM
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2018

Quant Time: May 23 05:00:29 2018
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-BM052218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 22 15:47:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.41	152	195218	20.00	ng	0.00
21) Naphthalene-d8	11.25	136	784531	20.00	ng	0.00
38) Acenaphthene-d10	15.02	164	405760	20.00	ng	0.00
63) Phenanthrene-d10	17.74	188	850256	20.00	ng	0.00
75) Chrysene-d12	21.83	240	844870	20.00	ng	0.00
86) Perylene-d12	24.27	264	864554	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.89	112	1647555	138.08	ng	0.00
7) Phenol-d6	7.55	99	2103202	135.36	ng	0.00
23) Nitrobenzene-d5	9.59	82	1233114	86.10	ng	0.00
41) 2,4,6-Tribromophenol	16.49	330	742529	145.93	ng	0.00
44) 2-Fluorobiphenyl	13.65	172	2745398	84.11	ng	0.00
78) Terphenyl-d14	20.29	244	3642673	95.21	ng	0.00

Target Compounds

						Qvalue
17) 2-Methylphenol	8.85	107	19861	1.893	ng	# 91
19) n-Nitroso-di-n-propylamine	9.22	70	17448	1.762	ng	90
20) 3+4-Methylphenols	9.18	107	25688	1.844	ng	92
22) Acetophenone	9.25	105	37288	1.981	ng	# 94
25) Isophorone	10.16	82	40023	1.627	ng	95
26) 2-Nitrophenol	10.35	139	8921	1.333	ng	# 75
27) 2,4-Dimethylphenol	10.40	122	15651	1.290	ng	91
28) bis(2-Chloroethoxy)methane	10.63	93	28224	1.752	ng	96
29) 2,4-Dichlorophenol	10.89	162	18356	1.597	ng	99
30) 1,2,4-Trichlorobenzene	11.10	180	28042	2.071	ng	93
36) 4-Chloro-3-methylphenol	12.50	107	17541	1.494	ng	90
42) 2,4,6-Trichlorophenol	13.47	196	12604	1.467	ng	95
43) 2,4,5-Trichlorophenol	13.55	196	14852	1.601	ng	# 90
56) 2,4-Dinitrotoluene	15.37	165	10571	1.143	ng	# 92
60) 4-Chlorophenyl-phenylether	16.03	204	31413	1.958	ng	95
61) 4-Nitroaniline	16.07	138	7914	1.064	ng	# 63
76) Benzidine	19.92	184	25057	0.947	ng	98
81) 3,3'-Dichlorobenzidine	21.74	252	34900	1.770	ng	97

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