

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM072318\
 Data File : BM016032.D
 Acq On : 23 Jul 2018 19:00
 Operator : SJ/JU
 Sample : J3762-01
 Misc : LOD 2 PPM
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2018

Quant Time: Jul 24 07:31:47 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM072318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 23 16:08:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.23	152	39280	20.00	ng	0.00
21) Naphthalene-d8	11.05	136	143898	20.00	ng	0.00
38) Acenaphthene-d10	14.86	164	74986	20.00	ng	0.00
63) Phenanthrene-d10	17.59	188	161607	20.00	ng	0.00
75) Chrysene-d12	21.70	240	179692	20.00	ng	0.00
86) Perylene-d12	24.07	264	192188	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.74	112	301262	127.40	ng	0.00
7) Phenol-d6	7.39	99	364545	118.05	ng	0.00
23) Nitrobenzene-d5	9.42	82	278436	90.00	ng	0.00
41) 2,4,6-Tribromophenol	16.34	330	122703	129.02	ng	0.00
44) 2-Fluorobiphenyl	13.48	172	554461	89.97	ng	0.00
78) Terphenyl-d14	20.16	244	1033034	120.34	ng	0.00

Target Compounds

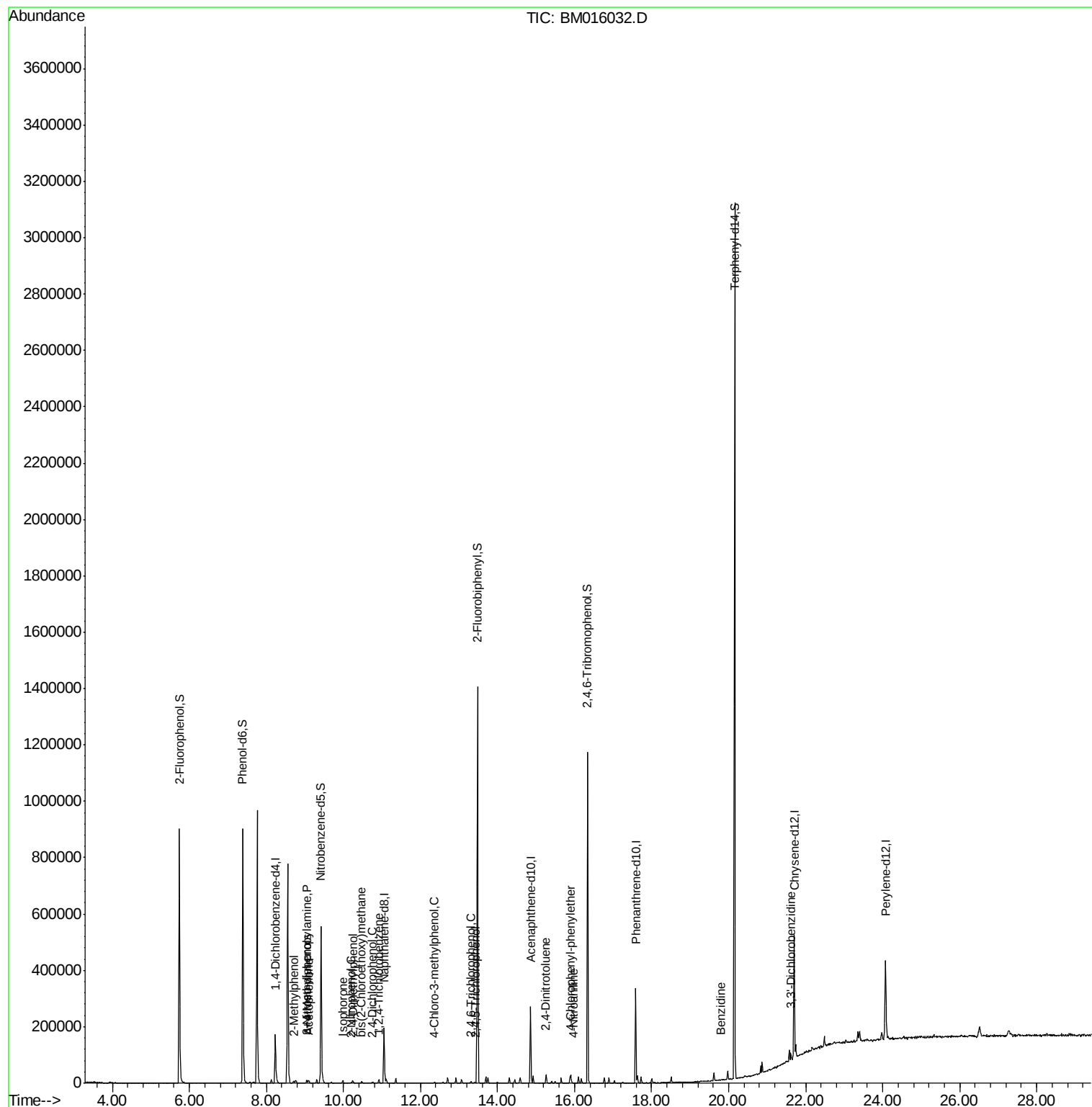
						Qvalue
17) 2-Methylphenol	8.70	107	2901	1.374	ng	# 82
19) n-Nitroso-di-n-propylamine	9.05	70	2665	1.181	ng	# 63
20) 3+4-Methylphenols	9.04	107	2705	0.891	ng	# 82
22) Acetophenone	9.09	105	6029	1.664	ng	# 86
25) Isophorone	9.99	82	7347	1.736	ng	# 90
26) 2-Nitrophenol	10.21	139	941	0.724	ng	# 54
27) 2,4-Dimethylphenol	10.24	122	3040	1.678	ng	# 79
28) bis(2-Chloroethoxy)methane	10.47	93	4296	1.562	ng	# 78
29) 2,4-Dichlorophenol	10.75	162	2516	1.169	ng	# 77
30) 1,2,4-Trichlorobenzene	10.92	180	4429	1.694	ng	# 96
36) 4-Chloro-3-methylphenol	12.36	107	2667	1.127	ng	# 67
42) 2,4,6-Trichlorophenol	13.32	196	1984	1.242	ng	# 90
43) 2,4,5-Trichlorophenol	13.42	196	1939	1.177	ng	# 87
56) 2,4-Dinitrotoluene	15.26	165	2003	1.061	ng	# 35
60) 4-Chlorophenyl-phenylether	15.89	204	5269	1.631	ng	# 83
61) 4-Nitroaniline	15.97	138	549	0.401	ng	# 21
76) Benzidine	19.81	184	2731	0.544	ng	# 76
81) 3,3'-Dichlorobenzidine	21.62	252	6138	1.377	ng	# 95

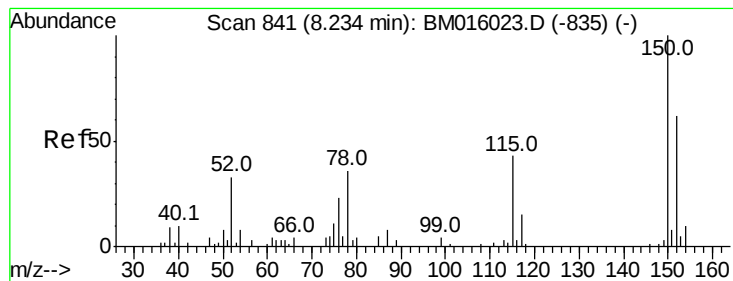
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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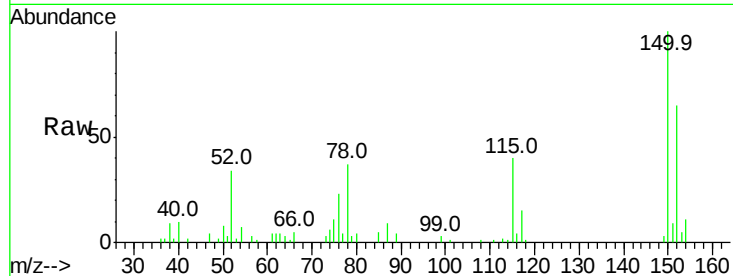


#1

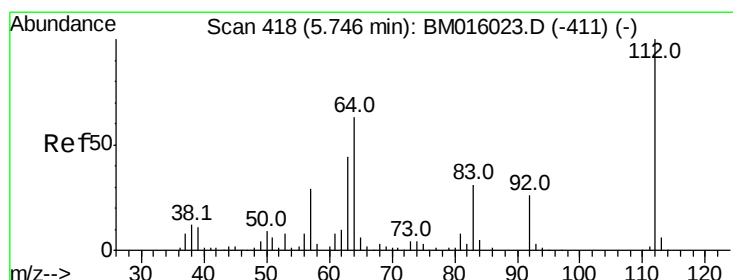
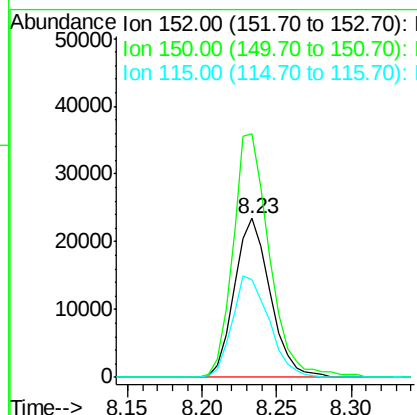
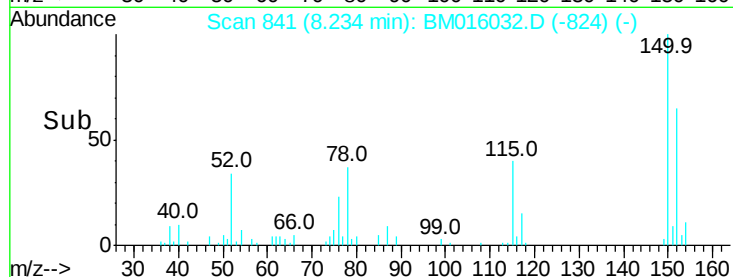
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.23 min Scan# 841
Delta R.T. -0.00 min
Lab File: BM016032.D
Acq: 23 Jul 2018 19:00

Instrument :
BNA_M
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion:152 Resp: 39280
Ion Ratio Lower Upper
152 100
150 153.6 119.5 179.3
115 61.5 43.0 64.4



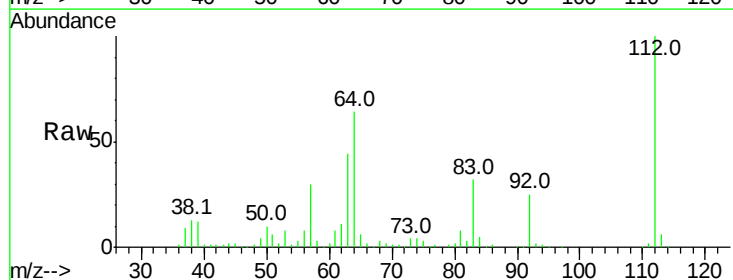
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



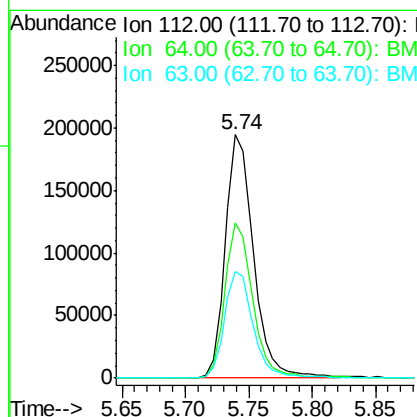
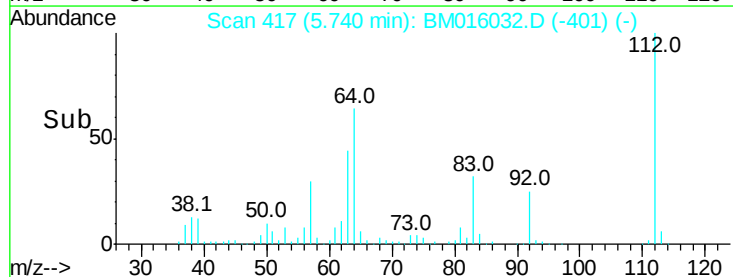
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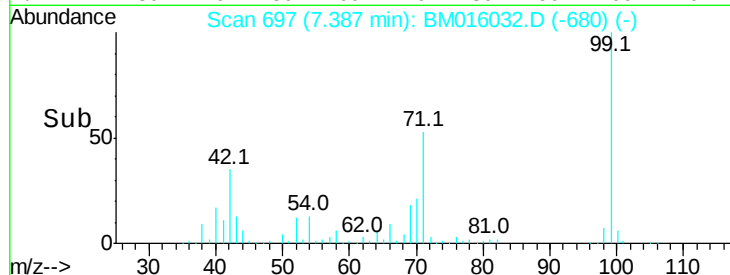
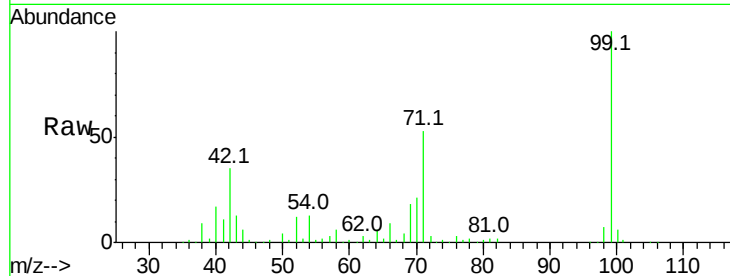
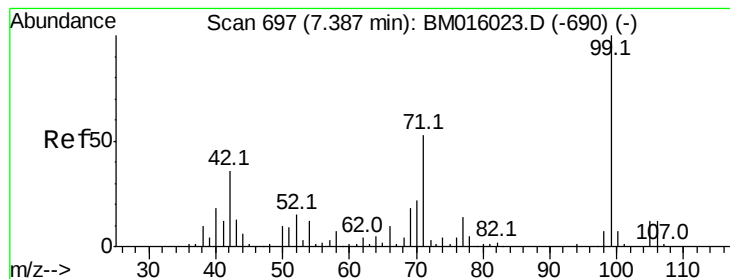
2-Fluorophenol
Concen: N.D. ng
RT: 5.74 min Scan# 417
Delta R.T. -0.01 min
Lab File: BM016032.D
Acq: 23 Jul 2018 19:00

Tgt Ion:112 Resp: 301262
Ion Ratio Lower Upper
112 100
64 63.8 38.6 57.8#
63 43.7 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: N.D. ng

RT: 7.39 min Scan# 697

Delta R.T. -0.00 min

Lab File: BM016032.D

Acq: 23 Jul 2018 19:00

Instrument :

BNA_M

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

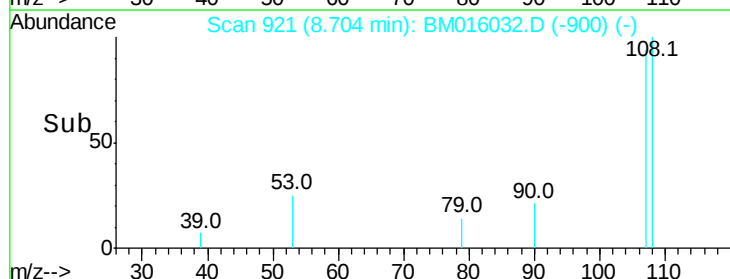
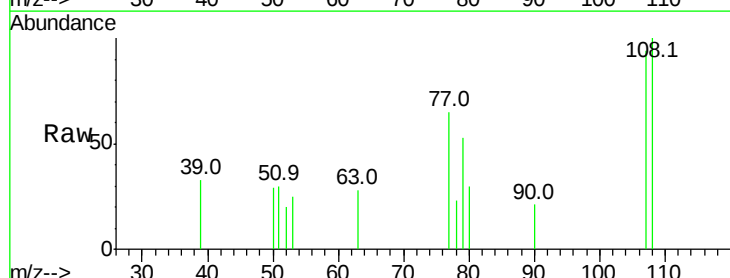
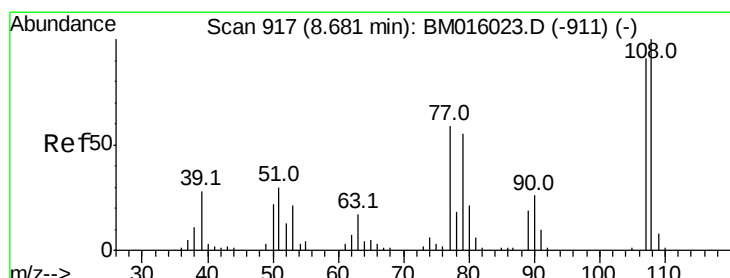
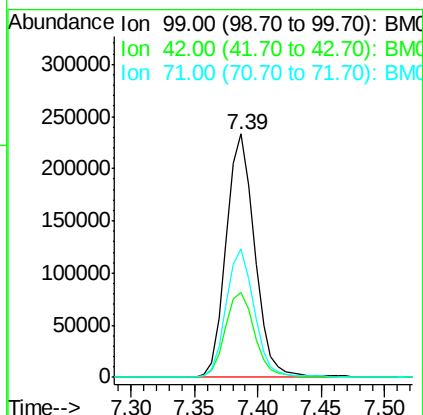
Tot Ion: 99 Resp: 364545

Ion Ratio Lower Upper

99 100

42 35.0 11.0 16.4#

71 52.6 23.4 35.2#



#17

2-Methylphenol

Concen: 1.374 ng

RT: 8.70 min Scan# 921

Delta R.T. 0.02 min

Lab File: BM016032.D

Acq: 23 Jul 2018 19:00

Tgt Ion: 107 Resp: 2901

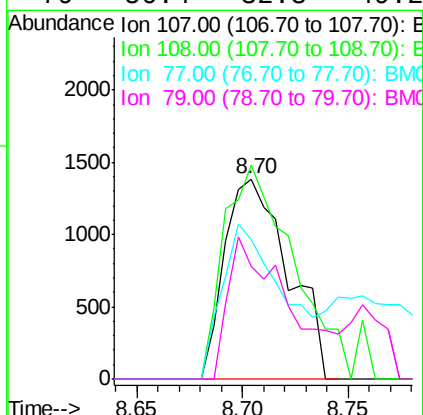
Ion Ratio Lower Upper

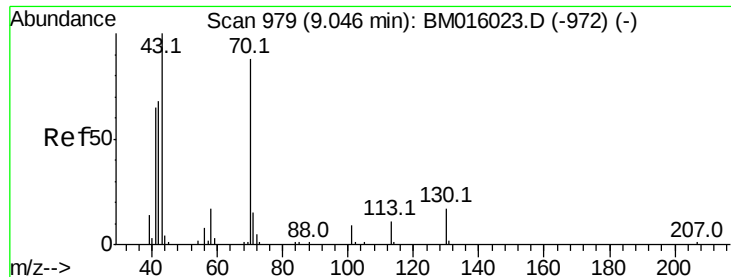
107 100

108 106.9 89.8 134.8

77 69.7 32.6 48.8#

79 56.4 32.8 49.2#

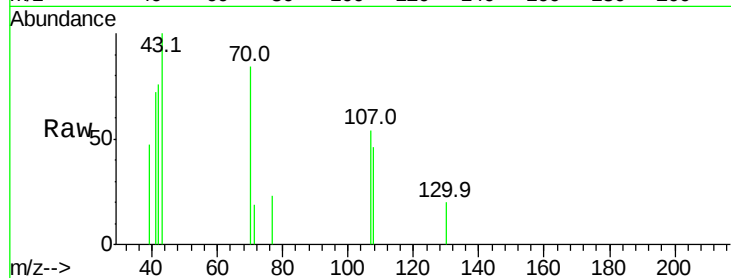




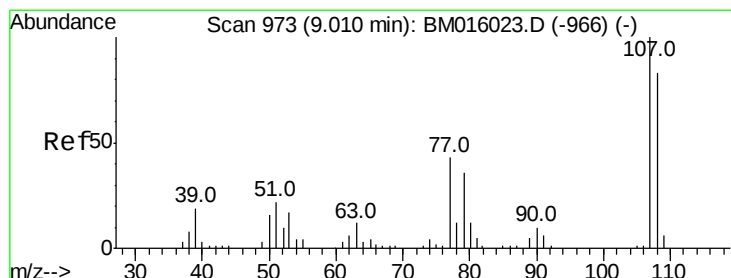
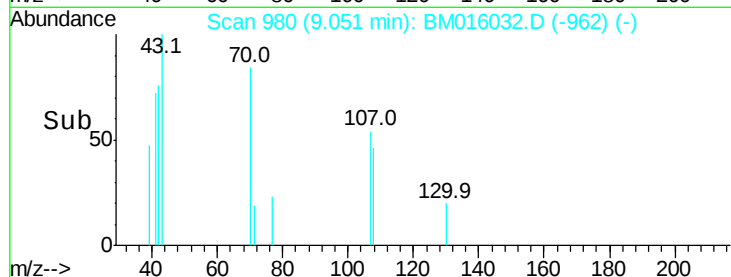
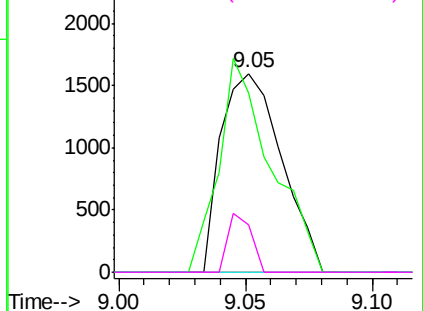
#19
n-Nitroso-di-n-propylamine
Concen: 1.181 ng
RT: 9.05 min Scan# 980
Delta R.T. 0.01 min
Lab File: BM016032.D
Acq: 23 Jul 2018 19:00

Instrument :
BNA_M
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 70 Resp: 2665
Ion Ratio Lower Upper
70 100
42 90.4 44.5 66.7#
101 0.0 7.4 11.2#
130 24.0 15.3 22.9#

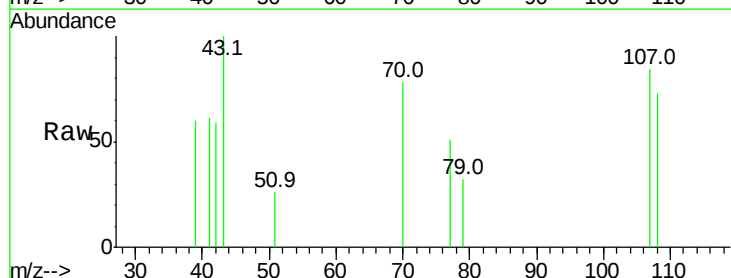


Abundance Ion 70.00 (69.70 to 70.70): BM0
Ion 42.00 (41.70 to 42.70): BM0
Ion 101.00 (100.70 to 101.70): E
Ion 130.00 (129.70 to 130.70): E

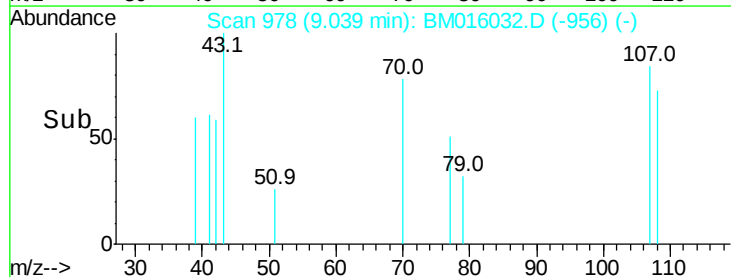
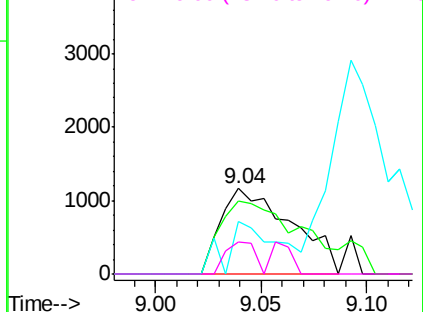


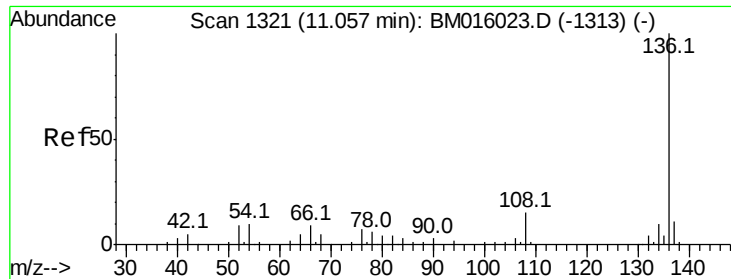
#20
3+4-Methylphenols
Concen: 0.891 ng
RT: 9.04 min Scan# 978
Delta R.T. 0.03 min
Lab File: BM016032.D
Acq: 23 Jul 2018 19:00

Tgt Ion:107 Resp: 2705
Ion Ratio Lower Upper
107 100
108 86.0 73.2 113.2
77 60.8 10.7 50.7#
79 37.4 9.6 49.6



Abundance Ion 107.00 (106.70 to 107.70): E
Ion 108.00 (107.70 to 108.70): E
Ion 77.00 (76.70 to 77.70): BM0
Ion 79.00 (78.70 to 79.70): BM0

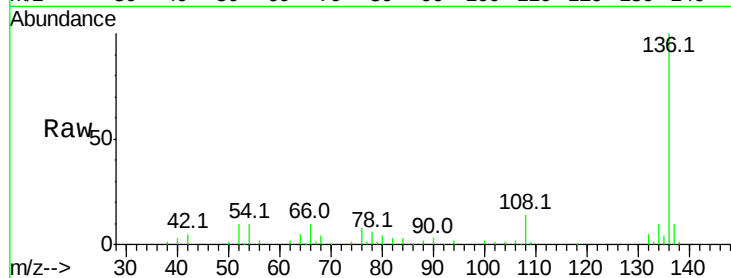




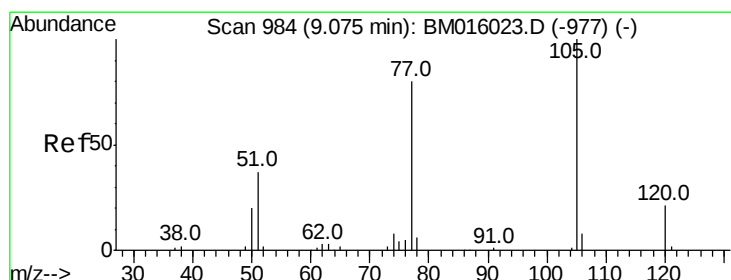
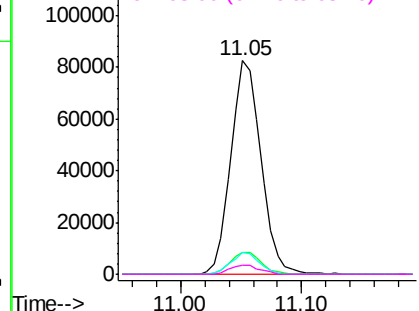
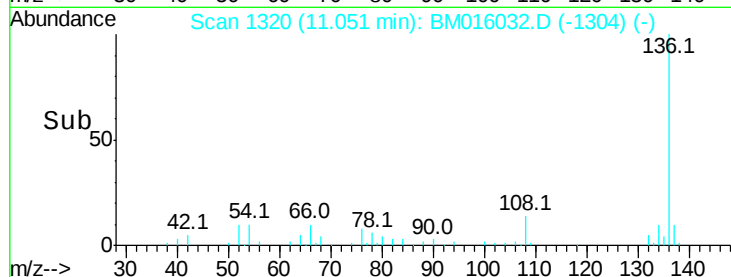
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.05 min Scan# 1320
Delta R.T. -0.01 min
Lab File: BM016032.D
Acq: 23 Jul 2018 19:00

Instrument :
BNA_M
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion:136 Resp: 143898
Ion Ratio Lower Upper
136 100
137 10.5 8.7 13.1
54 10.1 4.6 6.8#
68 4.0 3.7 5.5

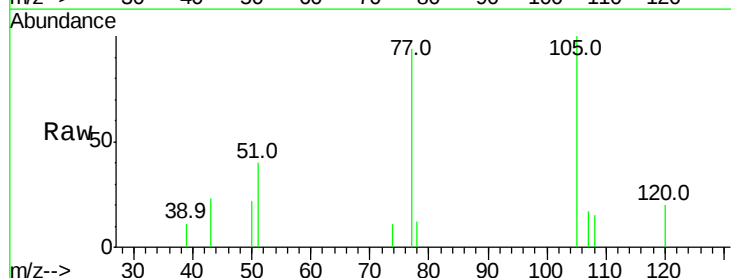


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BM0
Ion 68.00 (67.70 to 68.70): BM0

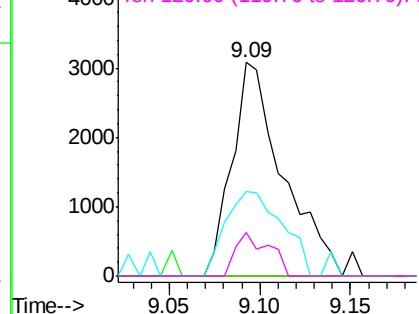
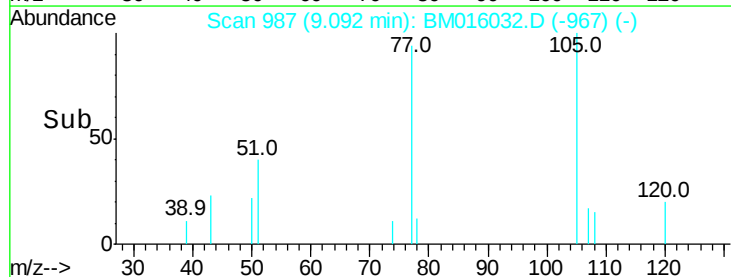


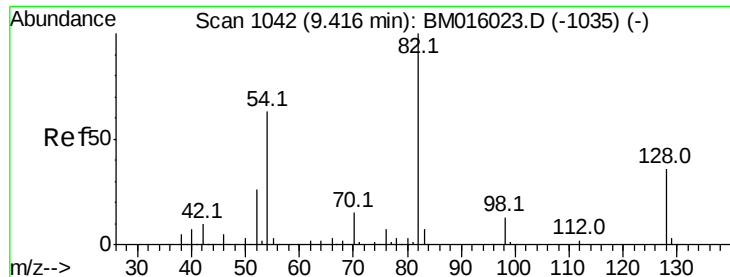
#22
Acetophenone
Concen: 1.664 ng
RT: 9.09 min Scan# 987
Delta R.T. 0.02 min
Lab File: BM016032.D
Acq: 23 Jul 2018 19:00

Tgt Ion:105 Resp: 6029
Ion Ratio Lower Upper
105 100
71 0.0 0.6 1.0#
51 39.6 21.6 32.4#
120 20.3 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

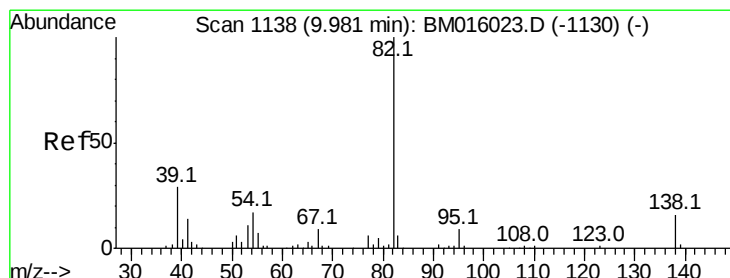
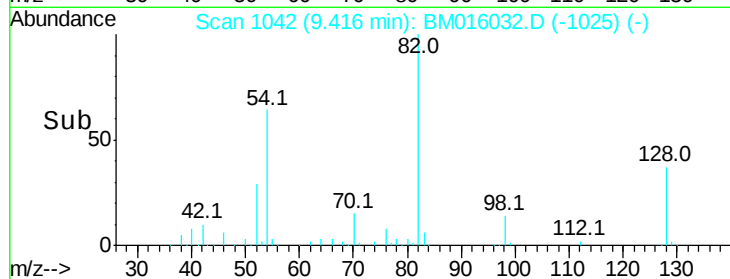
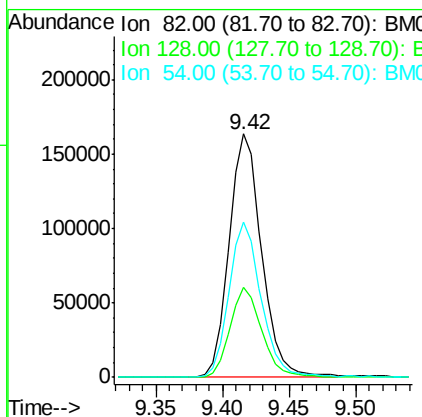
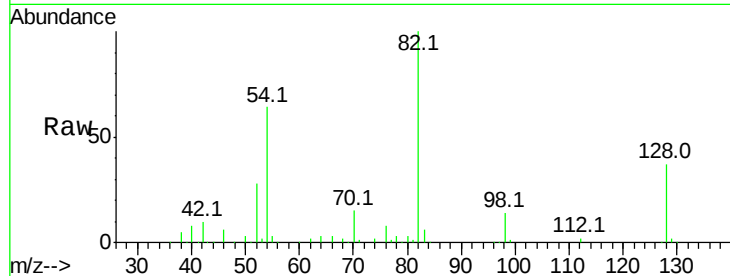




#23
Nitrobenzene-d5
Concen: 1.664 ng
RT: 9.42 min Scan# 1042
Delta R.T. -0.00 min
Lab File: BM016032.D
Acq: 23 Jul 2018 19:00

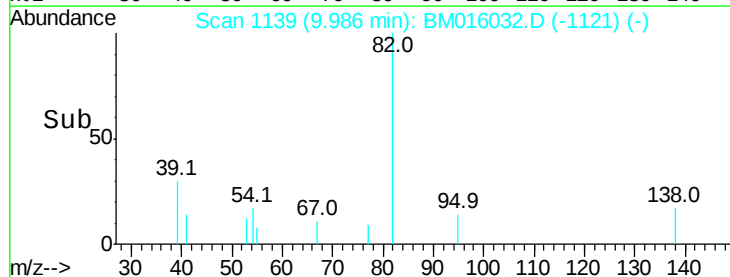
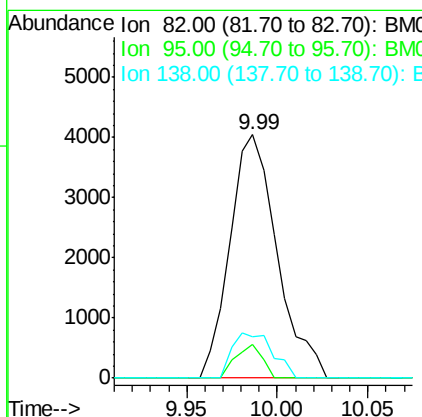
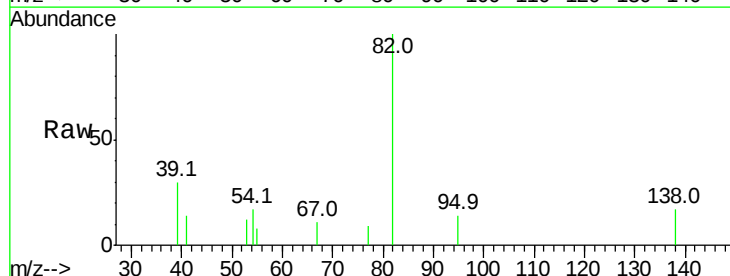
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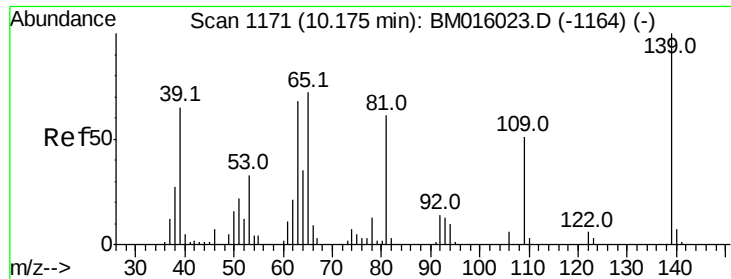
Tot Ion: 82 Resp: 278436
Ion Ratio Lower Upper
82 100
128 37.0 32.8 49.2
54 63.9 40.6 60.8#



#25
Isophorone
Concen: 1.736 ng
RT: 9.99 min Scan# 1139
Delta R.T. 0.01 min
Lab File: BM016032.D
Acq: 23 Jul 2018 19:00

Tgt Ion: 82 Resp: 7347
Ion Ratio Lower Upper
82 100
95 13.9 5.8 8.6#
138 17.0 16.3 24.5

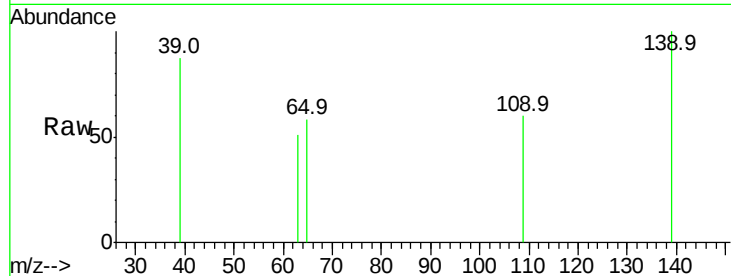




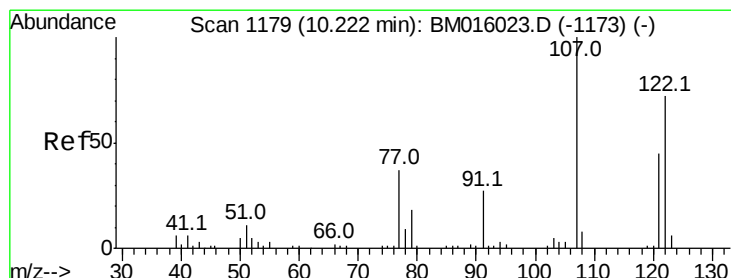
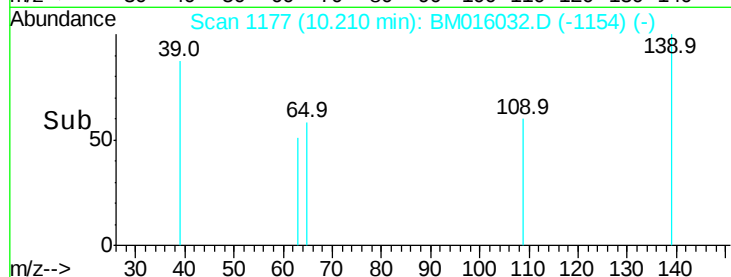
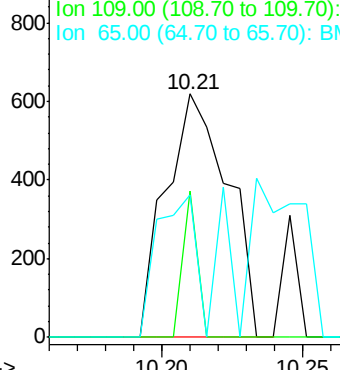
#26
 2-Nitrophenol
 Concen: 0.724 ng
 RT: 10.21 min Scan# 1177
 Delta R.T. 0.03 min
 Lab File: BM016032.D
 Acq: 23 Jul 2018 19:00

Instrument :
 BNA_M
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2018

Tot Ion:139 Resp: 941
 Ion Ratio Lower Upper
 139 100
 109 59.9 20.1 30.1#
 65 58.3 31.5 47.3#

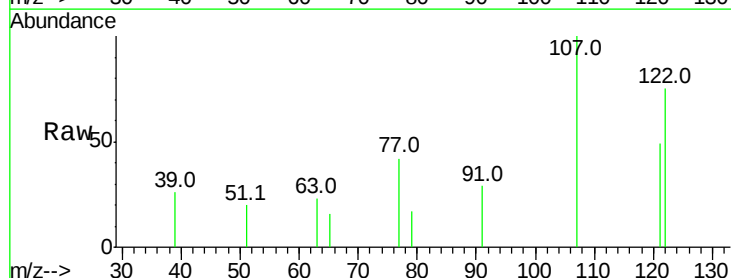


Abundance Ion 139.00 (138.70 to 139.70): E
 Ion 109.00 (108.70 to 109.70): E
 Ion 65.00 (64.70 to 65.70): BM

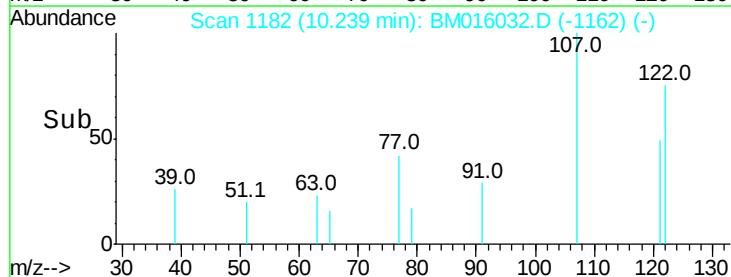
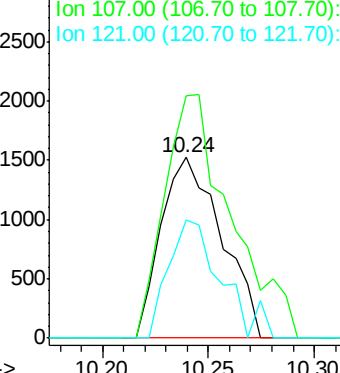


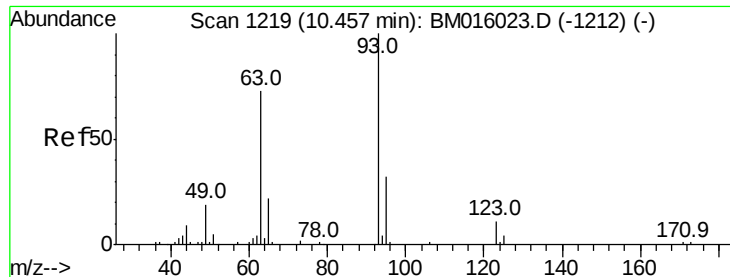
#27
 2,4-Dimethylphenol
 Concen: 1.678 ng
 RT: 10.24 min Scan# 1182
 Delta R.T. 0.02 min
 Lab File: BM016032.D
 Acq: 23 Jul 2018 19:00

Tgt Ion:122 Resp: 3040
 Ion Ratio Lower Upper
 122 100
 107 134.2 84.7 127.1#
 121 65.7 46.6 69.8



Abundance Ion 122.00 (121.70 to 122.70): E
 Ion 107.00 (106.70 to 107.70): E
 Ion 121.00 (120.70 to 121.70): E

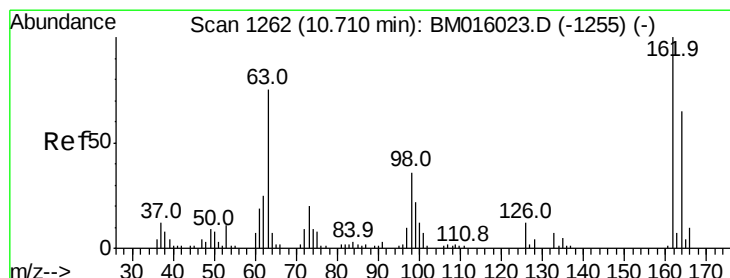
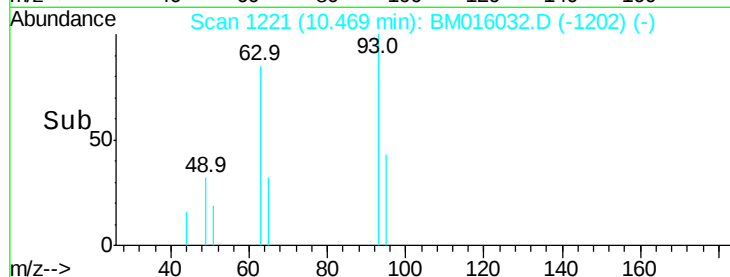
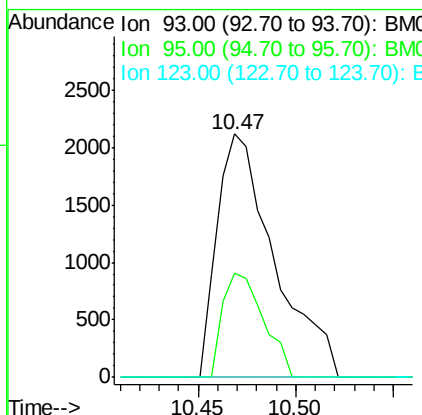
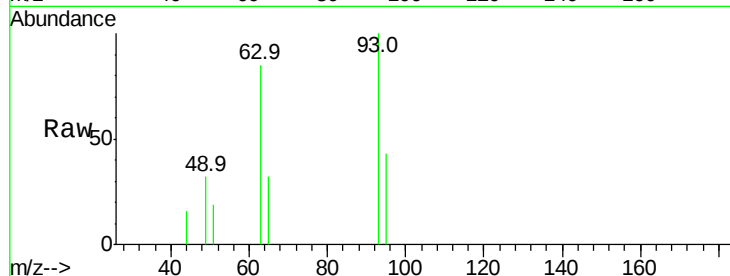




#28
bis(2-Chloroethoxy)methane
Concen: 1.562 ng
RT: 10.47 min Scan# 1221
Delta R.T. 0.01 min
Lab File: BM016032.D
Acq: 23 Jul 2018 19:00

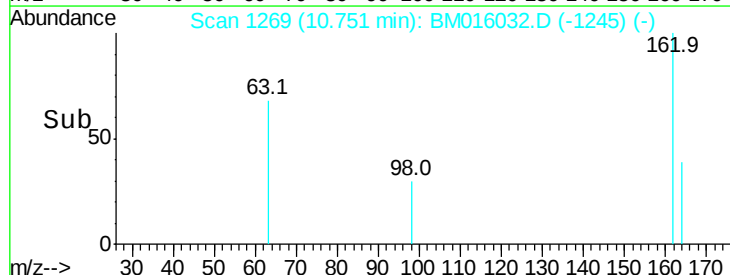
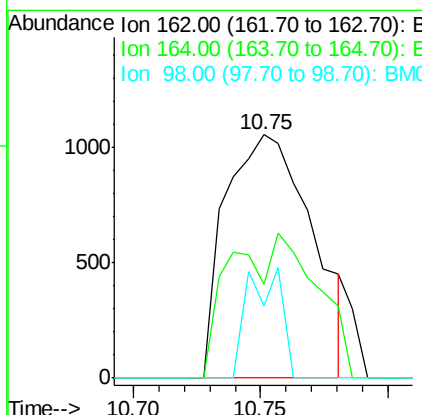
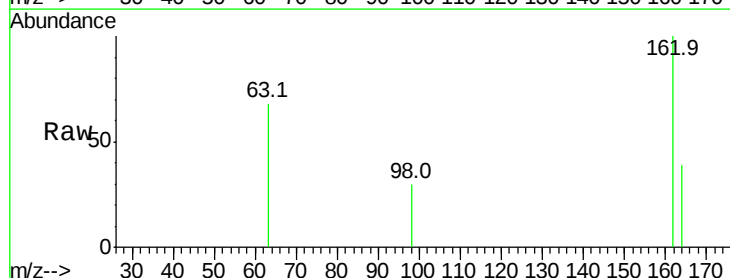
Instrument :
BNA_M
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

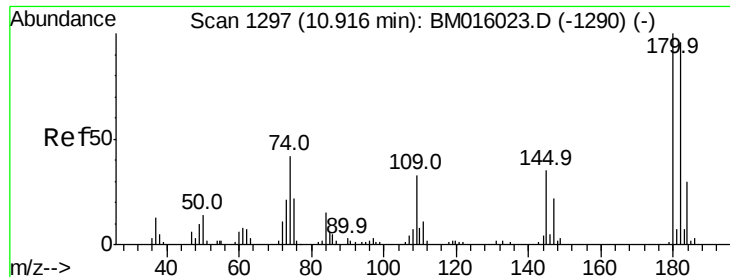
Tot Ion: 93 Resp: 4296
Ion Ratio Lower Upper
93 100
95 42.8 25.5 38.3#
123 0.0 8.6 13.0#



#29
2,4-Dichlorophenol
Concen: 1.169 ng
RT: 10.75 min Scan# 1269
Delta R.T. 0.04 min
Lab File: BM016032.D
Acq: 23 Jul 2018 19:00

Tgt Ion: 162 Resp: 2516
Ion Ratio Lower Upper
162 100
164 38.6 42.8 82.8#
98 29.5 14.5 54.5

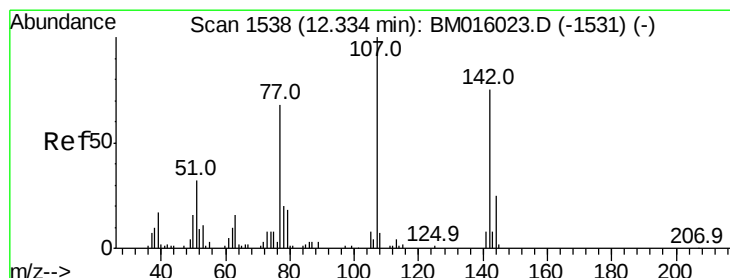
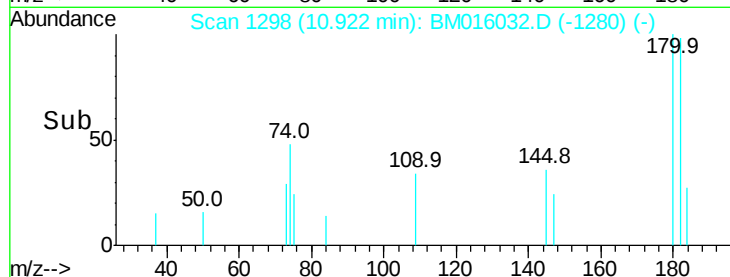
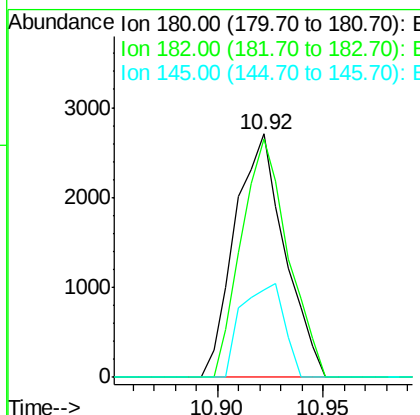
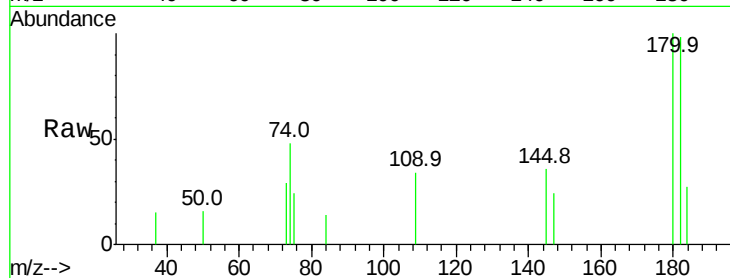




#30
 1,2,4-Trichlorobenzene
 Concen: 1.694 ng
 RT: 10.92 min Scan# 1298
 Delta R.T. 0.01 min
 Lab File: BM016032.D
 Acq: 23 Jul 2018 19:00

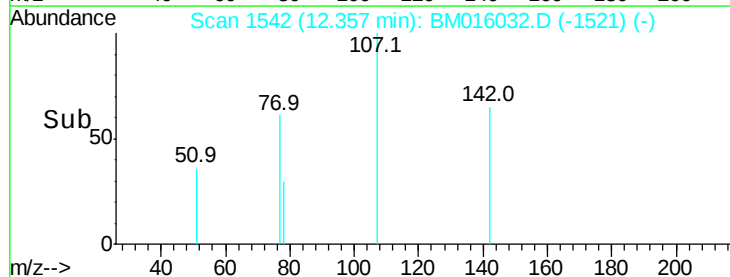
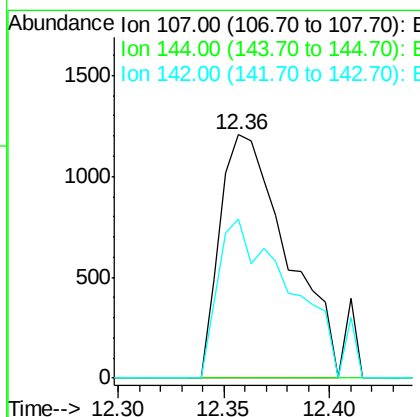
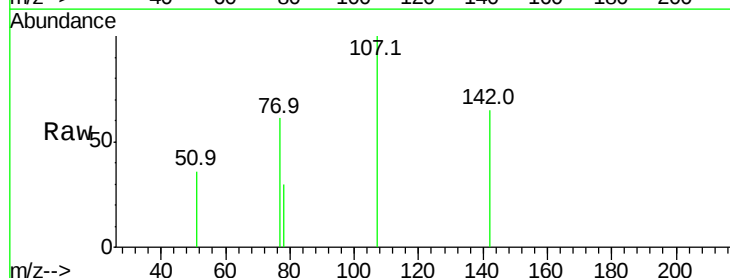
Instrument :
 BNA_M
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2018

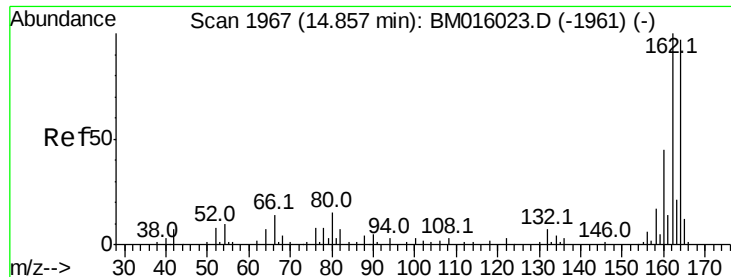
Tot Ion:180 Resp: 4429
 Ion Ratio Lower Upper
 180 100
 182 97.9 77.6 116.4
 145 36.1 23.4 35.2#



#36
 4-Chloro-3-methylphenol
 Concen: 1.127 ng
 RT: 12.36 min Scan# 1542
 Delta R.T. 0.02 min
 Lab File: BM016032.D
 Acq: 23 Jul 2018 19:00

Tgt Ion:107 Resp: 2667
 Ion Ratio Lower Upper
 107 100
 144 0.0 23.3 34.9#
 142 65.5 72.6 109.0#





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.86 min Scan# 1967

Delta R.T. -0.00 min

Lab File: BM016032.D

Acq: 23 Jul 2018 19:00

Instrument :

BNA_M

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

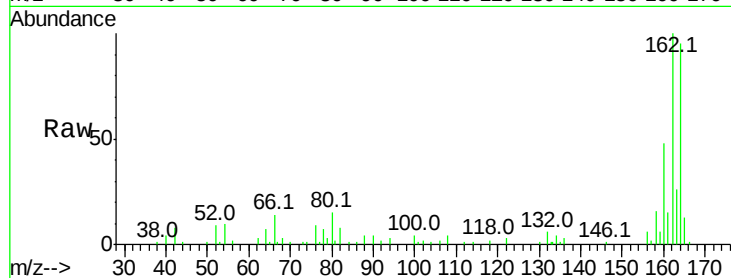
Tot Ion:164 Resp: 74986

Ion Ratio Lower Upper

164 100

162 105.6 82.4 123.6

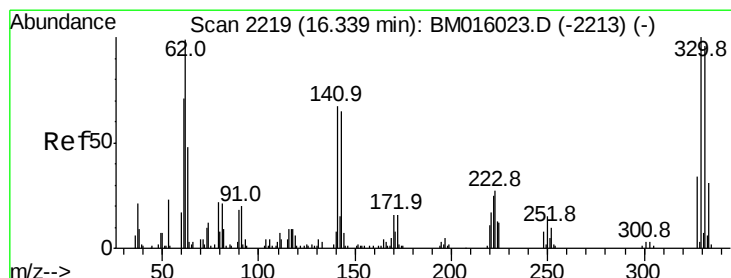
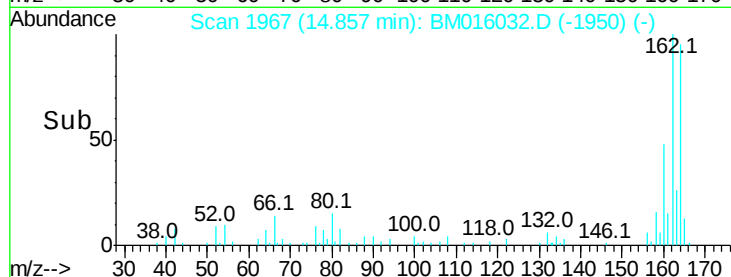
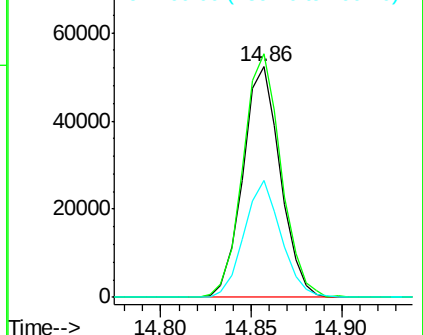
160 50.7 35.8 53.6



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: N.D. ng

RT: 16.34 min Scan# 2219

Delta R.T. -0.00 min

Lab File: BM016032.D

Acq: 23 Jul 2018 19:00

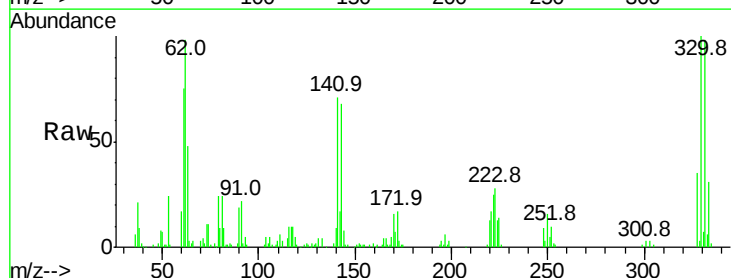
Tgt Ion:330 Resp: 122703

Ion Ratio Lower Upper

330 100

332 97.9 0.0 0.0#

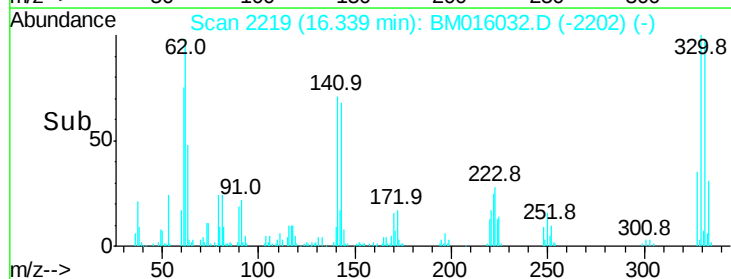
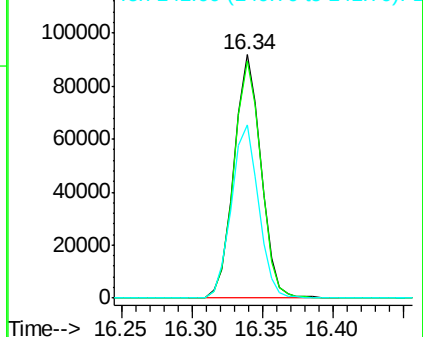
141 71.6 0.0 0.0#

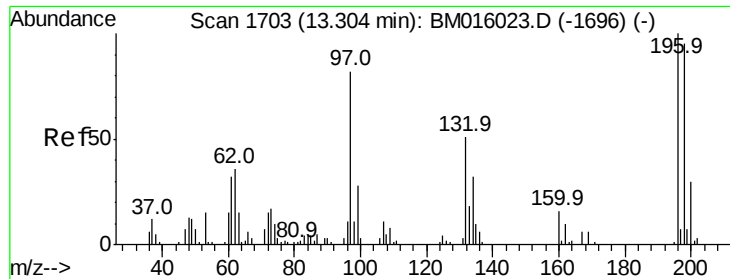


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

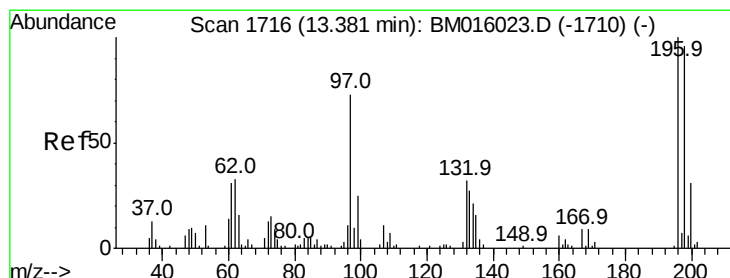
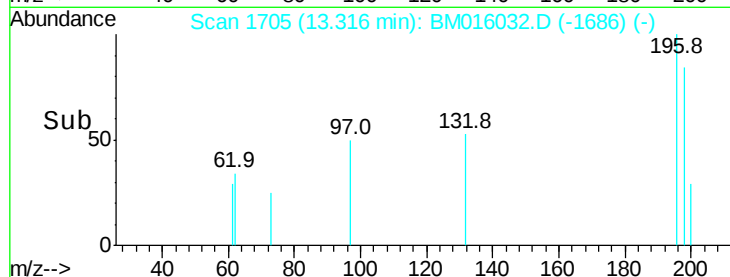
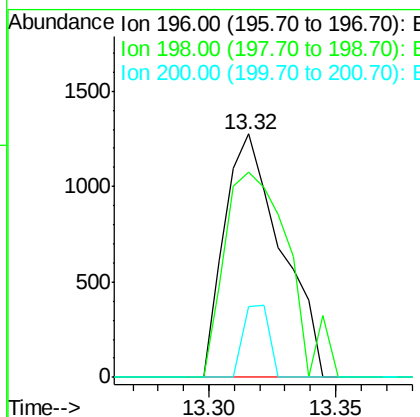
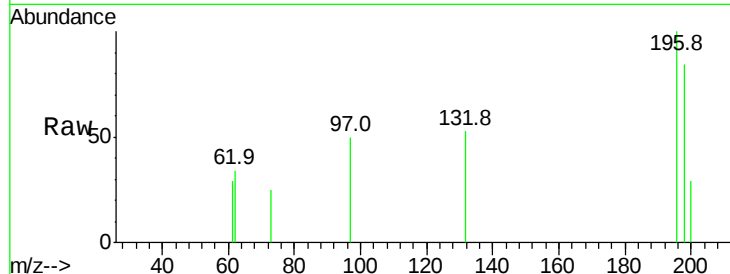




#42
 2,4,6-Trichlorophenol
 Concen: 1.242 ng
 RT: 13.32 min Scan# 1705
 Delta R.T. 0.01 min
 Lab File: BM016032.D
 Acq: 23 Jul 2018 19:00

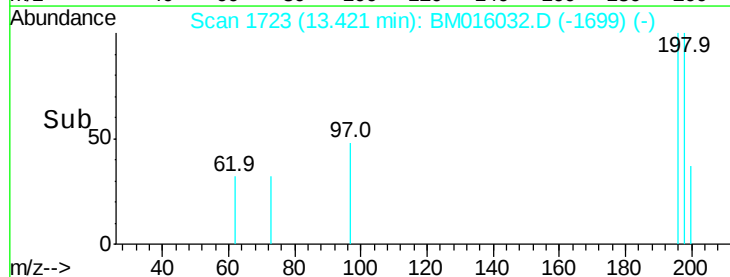
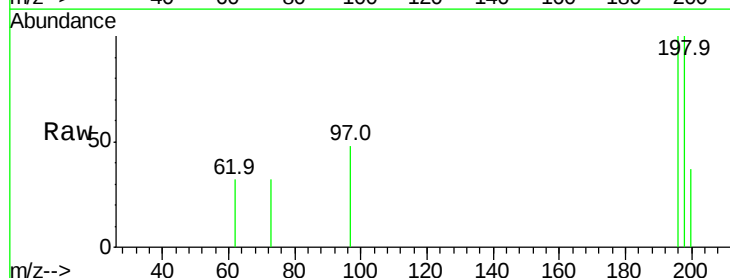
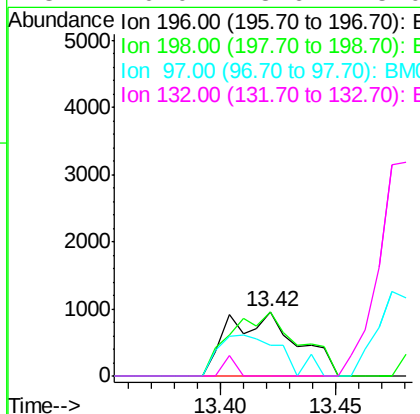
Instrument :
 BNA_M
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2018

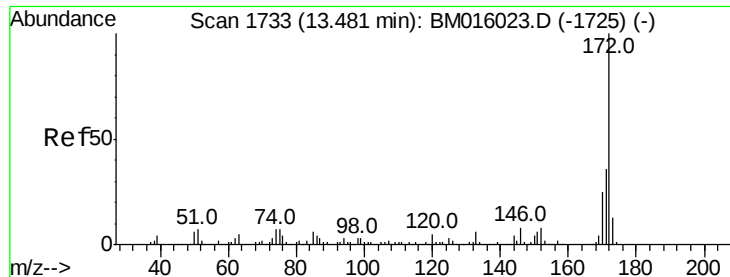
Tot Ion:196 Resp: 1984
 Ion Ratio Lower Upper
 196 100
 198 84.1 76.3 114.5
 200 29.2 25.6 38.4



#43
 2,4,5-Trichlorophenol
 Concen: 1.177 ng
 RT: 13.42 min Scan# 1723
 Delta R.T. 0.04 min
 Lab File: BM016032.D
 Acq: 23 Jul 2018 19:00

Tgt Ion:196 Resp: 1939
 Ion Ratio Lower Upper
 196 100
 198 100.2 79.4 119.0
 97 48.5 26.8 40.2#
 132 0.0 18.6 28.0#





#44

2-Fluorobiphenyl

Concen: 1.177 ng

RT: 13.48 min Scan# 1733

Delta R.T. -0.00 min

Lab File: BM016032.D

Acq: 23 Jul 2018 19:00

Instrument :

BNA_M

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

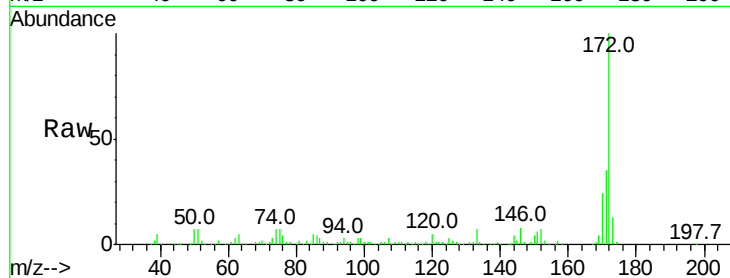
Tot Ion:172 Resp: 554461

Ion Ratio Lower Upper

172 100

171 35.3 28.5 42.7

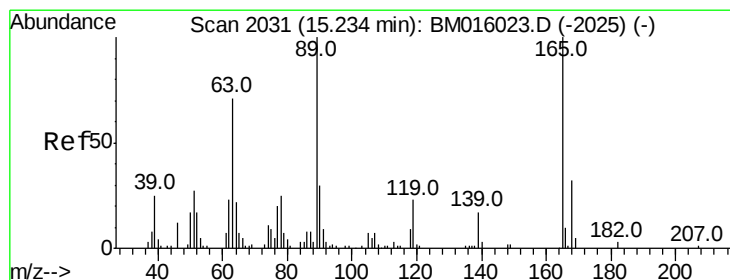
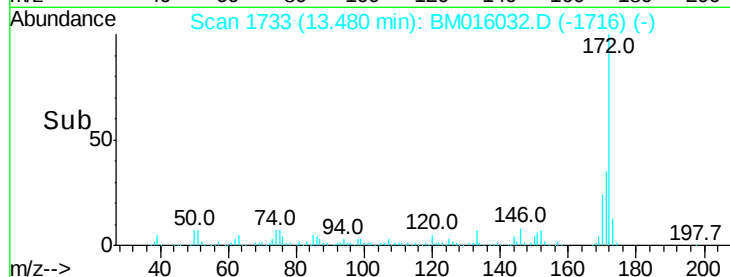
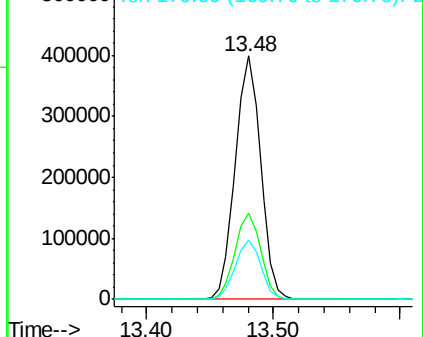
170 24.1 18.8 28.2



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#56

2,4-Dinitrotoluene

Concen: 1.061 ng

RT: 15.26 min Scan# 2035

Delta R.T. 0.02 min

Lab File: BM016032.D

Acq: 23 Jul 2018 19:00

Tgt Ion:165 Resp: 2003

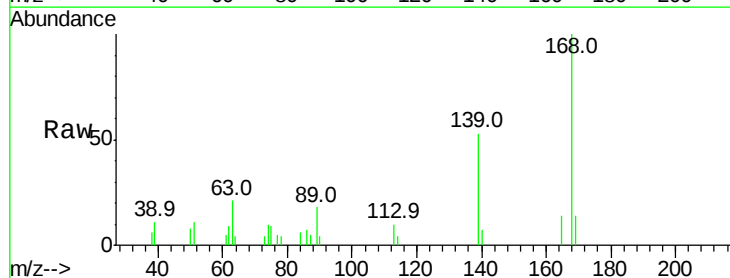
Ion Ratio Lower Upper

165 100

63 147.5 52.4 78.6#

89 127.4 72.4 108.6#

182 0.0 2.0 3.0#

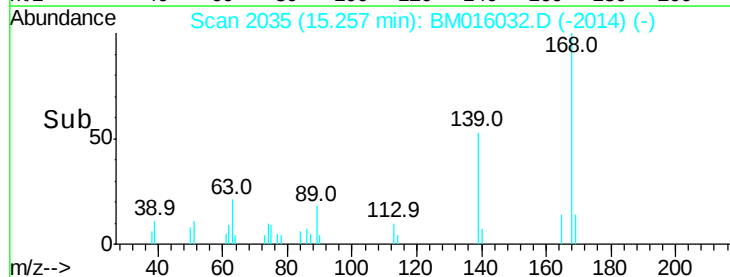
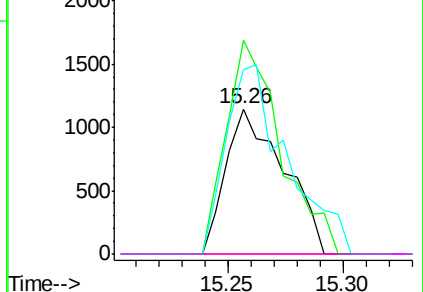


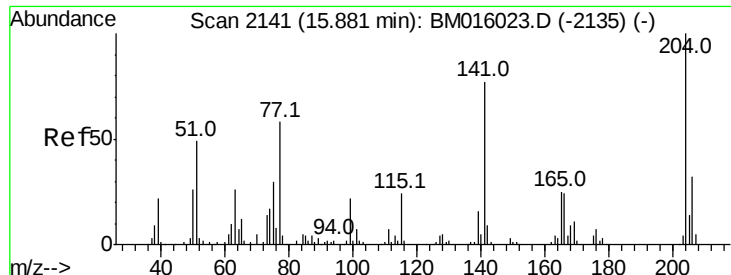
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BM0

Ion 89.00 (88.70 to 89.70): BM0

Ion 182.00 (181.70 to 182.70): E

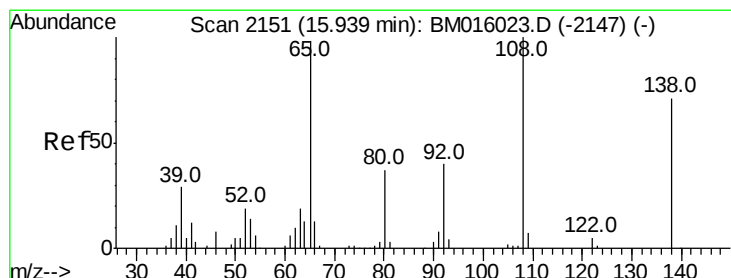
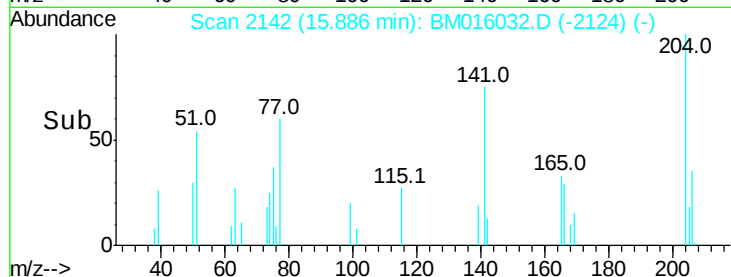
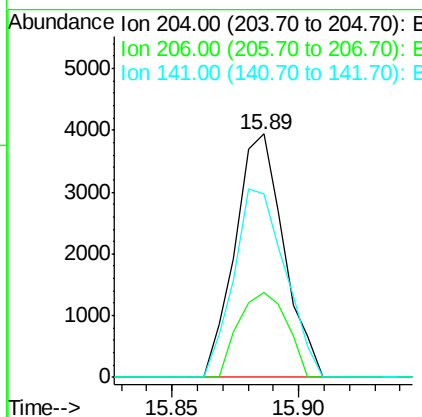
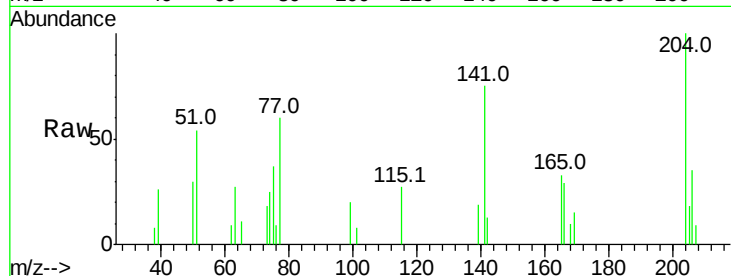




#60
 4-Chlorophenyl-phenylether
 Concen: 1.631 ng
 RT: 15.89 min Scan# 2142
 Delta R.T. 0.01 min
 Lab File: BM016032.D
 Acq: 23 Jul 2018 19:00

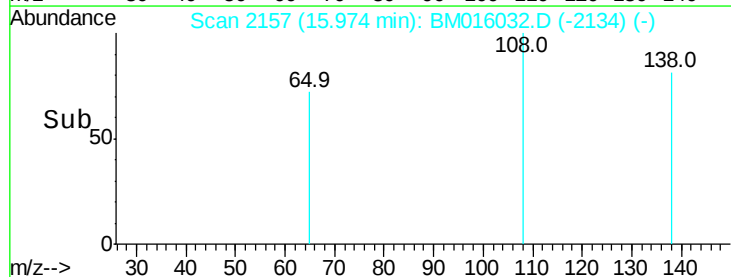
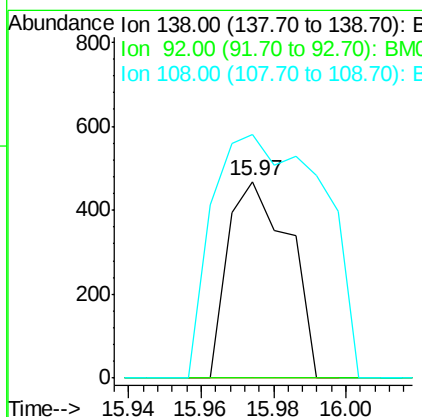
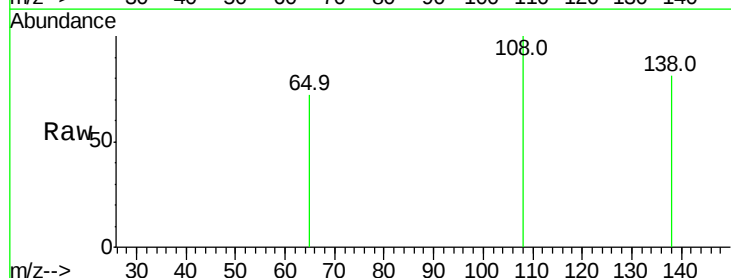
Instrument :
 BNA_M
 ClientSampleID :
 LOD-MDL-SOIL-01-QT3-2018

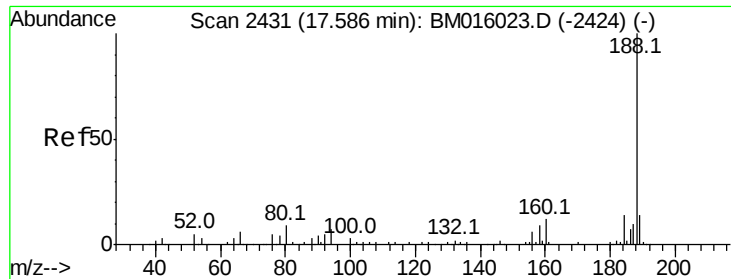
Tot Ion:204 Resp: 5269
 Ion Ratio Lower Upper
 204 100
 206 34.8 26.6 39.8
 141 75.4 45.2 67.8#



#61
 4-Nitroaniline
 Concen: 0.401 ng
 RT: 15.97 min Scan# 2157
 Delta R.T. 0.03 min
 Lab File: BM016032.D
 Acq: 23 Jul 2018 19:00

Tgt Ion:138 Resp: 549
 Ion Ratio Lower Upper
 138 100
 92 0.0 16.7 56.7#
 108 123.9 37.6 77.6#

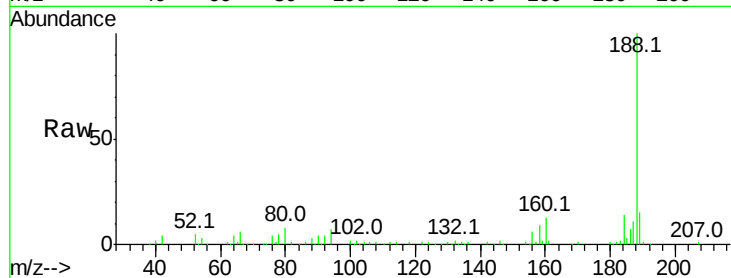




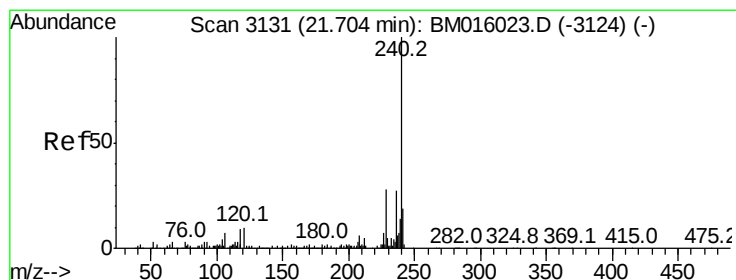
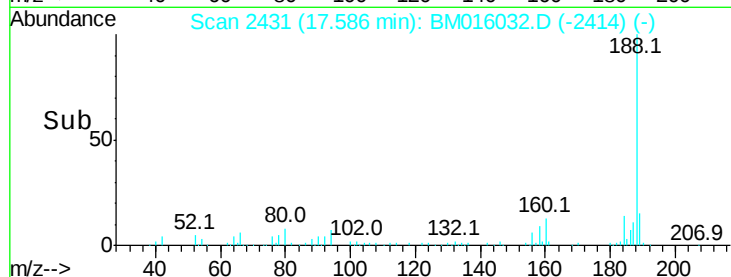
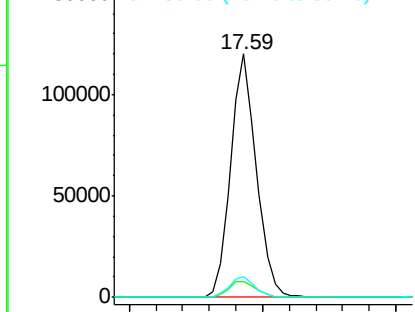
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.59 min Scan# 2431
Delta R.T. -0.00 min
Lab File: BM016032.D
Acq: 23 Jul 2018 19:00

Instrument :
BNA_M
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion:188 Resp: 161607
Ion Ratio Lower Upper
188 100
94 6.6 8.7 13.1#
80 8.4 9.3 13.9#

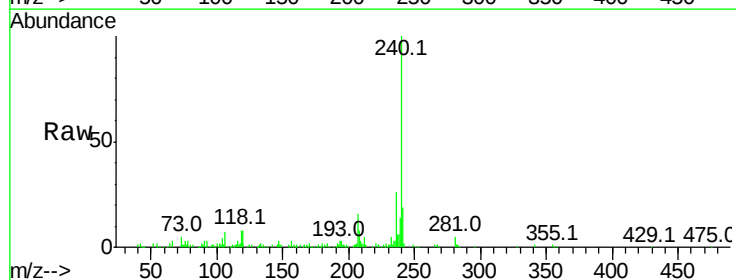


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BM0
Ion 80.00 (79.70 to 80.70): BM0

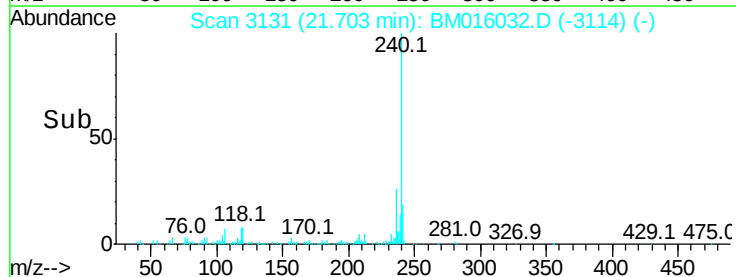
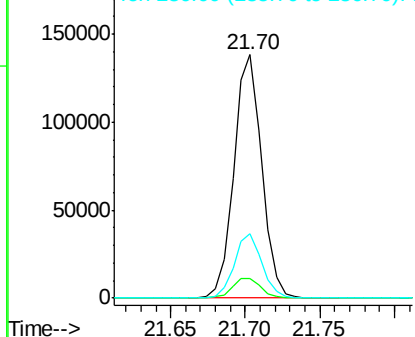


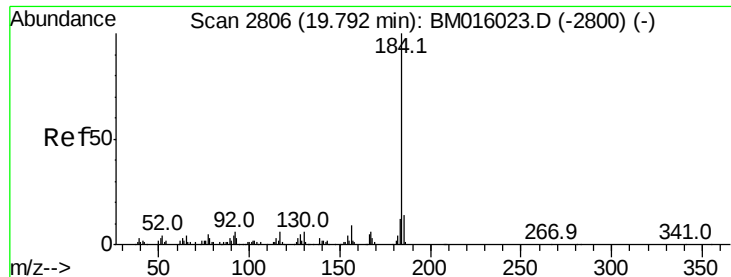
#75
Chrysene-d12
Concen: 20.000 ng
RT: 21.70 min Scan# 3131
Delta R.T. -0.00 min
Lab File: BM016032.D
Acq: 23 Jul 2018 19:00

Tgt Ion:240 Resp: 179692
Ion Ratio Lower Upper
240 100
120 7.8 8.2 12.2#
236 26.5 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: 0.544 ng

RT: 19.81 min Scan# 2809

Delta R.T. 0.02 min

Lab File: BM016032.D

Acq: 23 Jul 2018 19:00

Instrument :

BNA_M

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

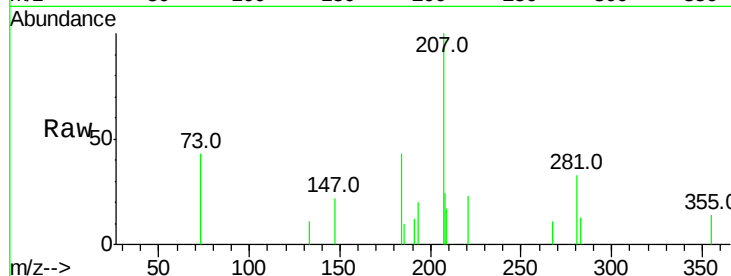
Tot Ion:184 Resp: 2731

Ion Ratio Lower Upper

184 100

185 22.3 11.3 16.9#

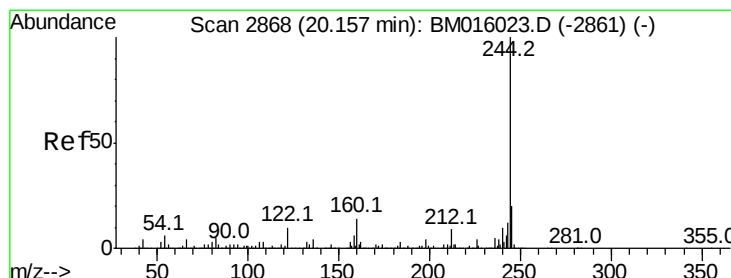
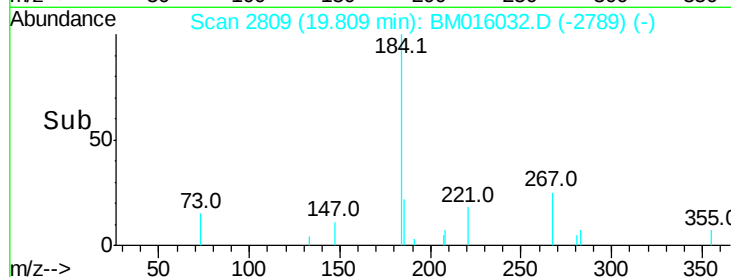
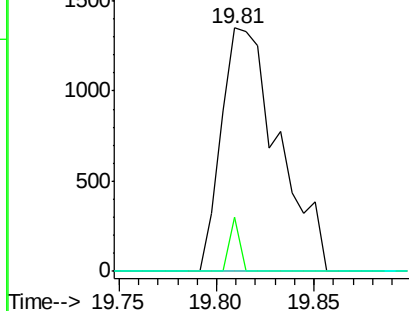
183 0.0 8.9 13.3#



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



#78

Terphenyl-d14

Concen: N.D. ng

RT: 20.16 min Scan# 2868

Delta R.T. -0.00 min

Lab File: BM016032.D

Acq: 23 Jul 2018 19:00

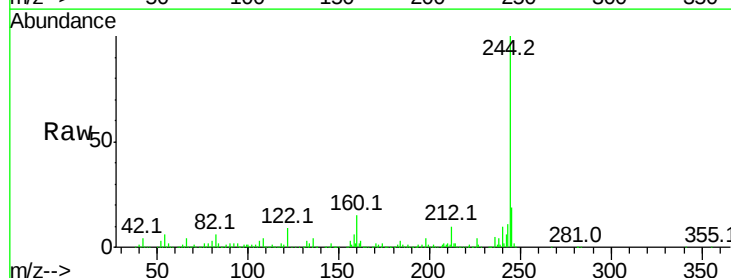
Tgt Ion:244 Resp: 1033034

Ion Ratio Lower Upper

244 100

212 9.8 4.9 7.3#

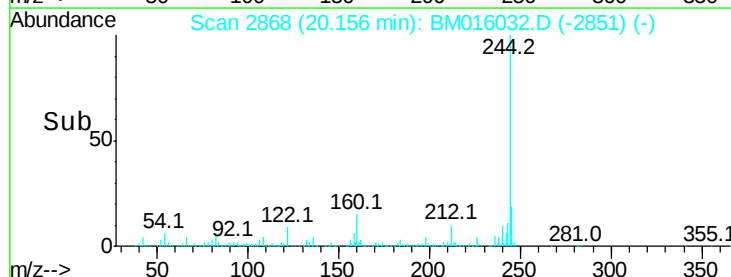
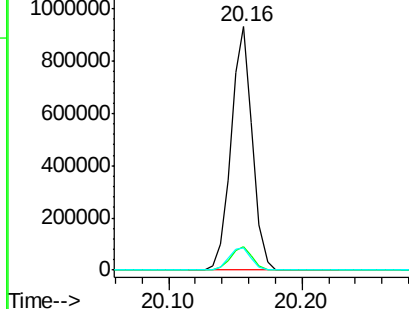
122 9.1 6.2 9.4

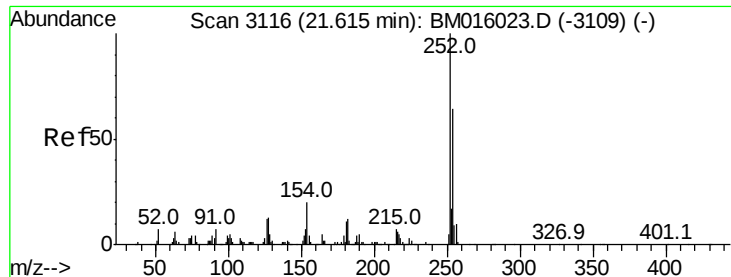


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

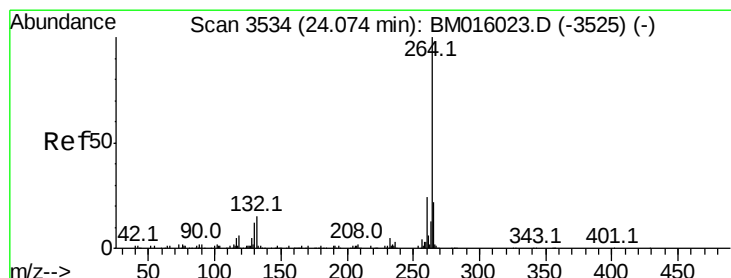
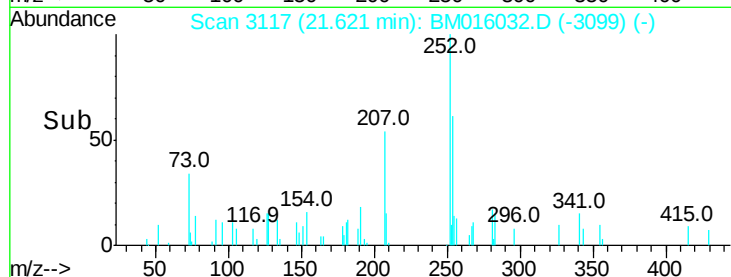
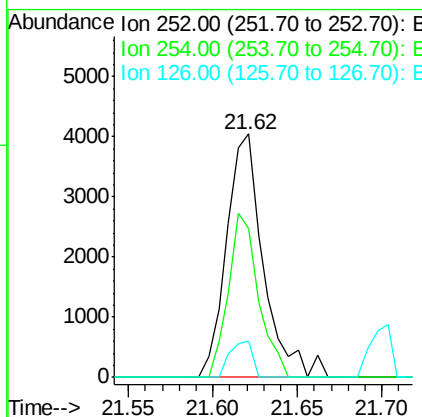
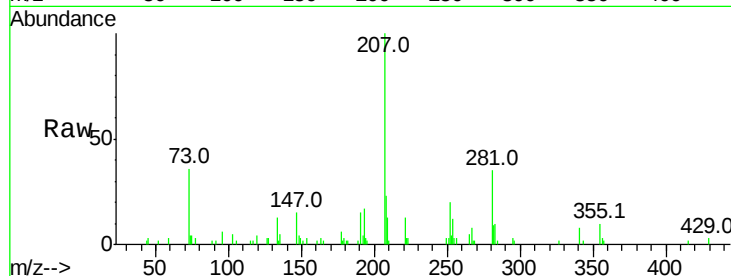




#81
 3,3'-Dichlorobenzidine
 Concen: 1.377 ng
 RT: 21.62 min Scan# 3117
 Delta R.T. 0.01 min
 Lab File: BM016032.D
 Acq: 23 Jul 2018 19:00

Instrument :
 BNA_M
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2018

Tot Ion:252 Resp: 6138
 Ion Ratio Lower Upper
 252 100
 254 61.1 51.9 77.9
 126 14.9 9.8 14.8#



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 24.07 min Scan# 3534
 Delta R.T. -0.00 min
 Lab File: BM016032.D
 Acq: 23 Jul 2018 19:00

Tgt Ion:264 Resp: 192188
 Ion Ratio Lower Upper
 264 100
 260 24.5 18.6 27.8
 265 22.1 17.3 25.9

