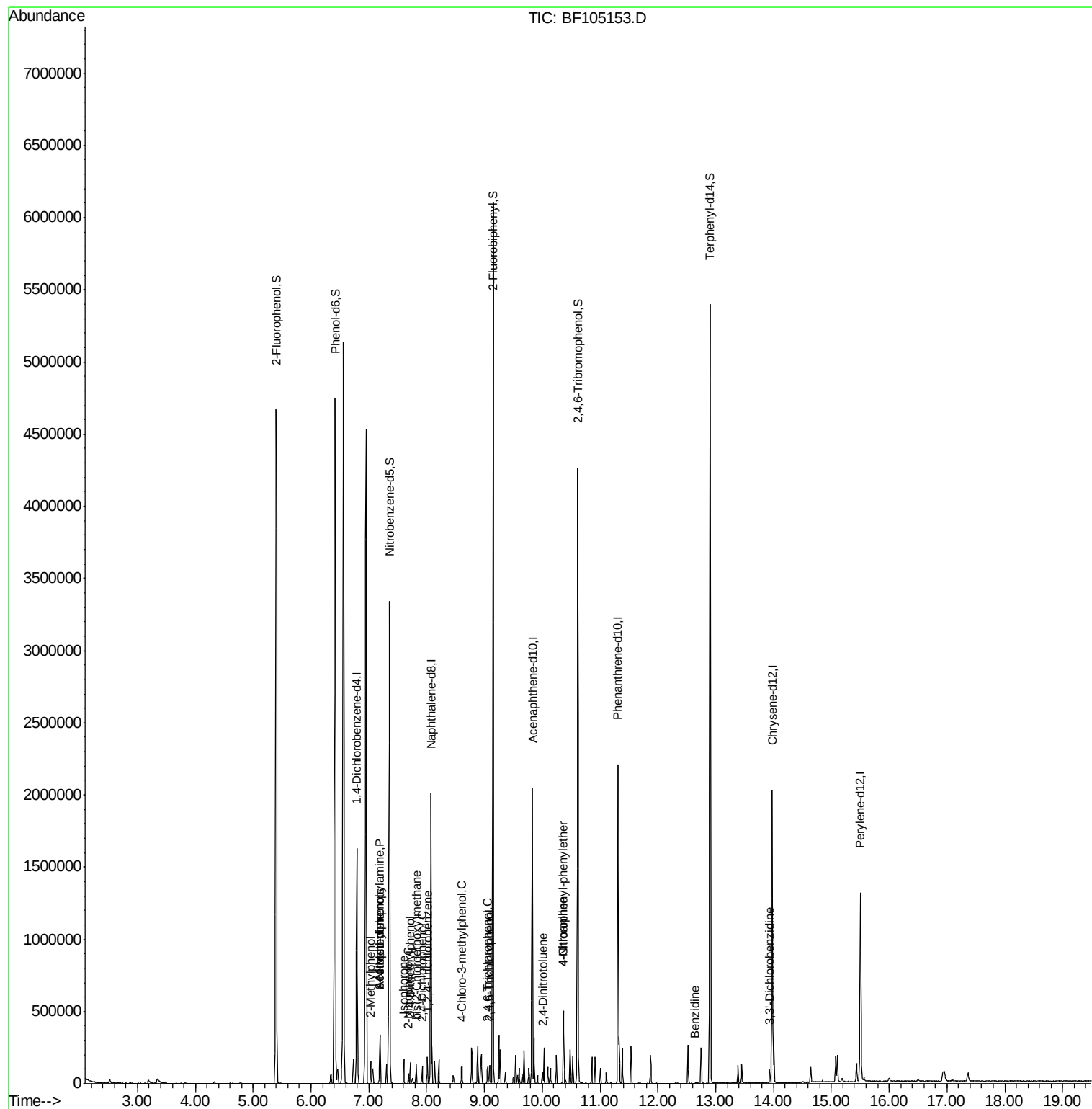
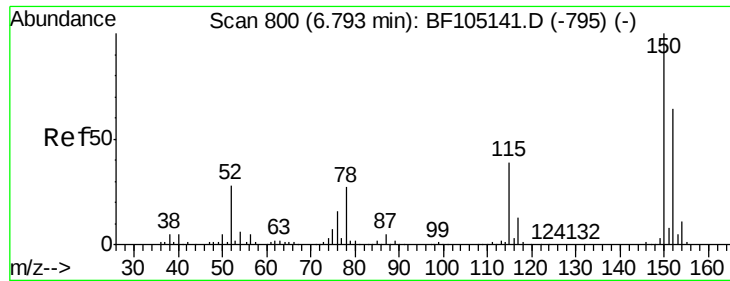


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Data File : BF105153.D
Acq On : 8 May 2018 19:26
Operator : JU/SJ
Sample : J2133-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

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

Quant Time: May 09 08:54:02 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 08 16:33:54 2018
Response via : Initial Calibration



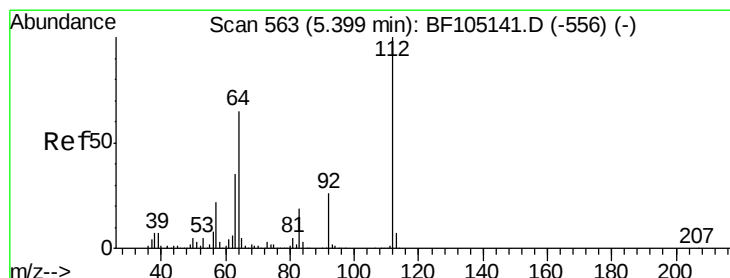
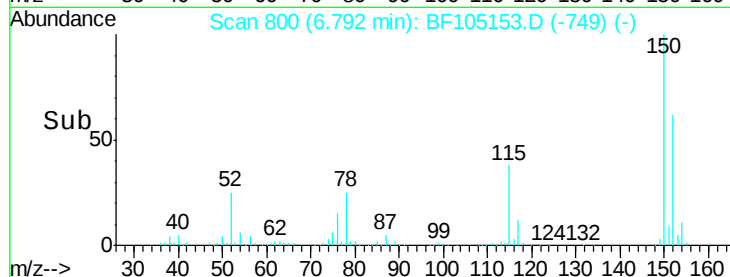
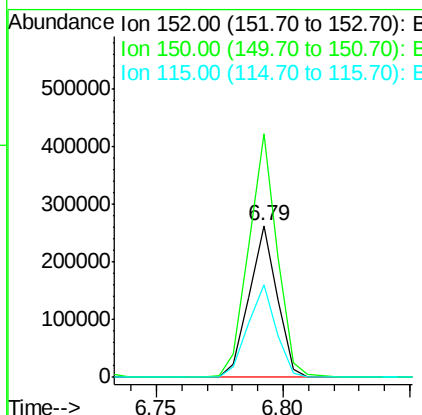
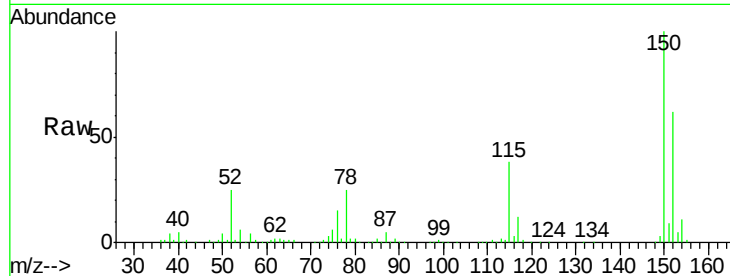


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.79 min Scan# 800
Delta R.T. -0.00 min
Lab File: BF105153.D
Acq: 8 May 2018 19:26

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

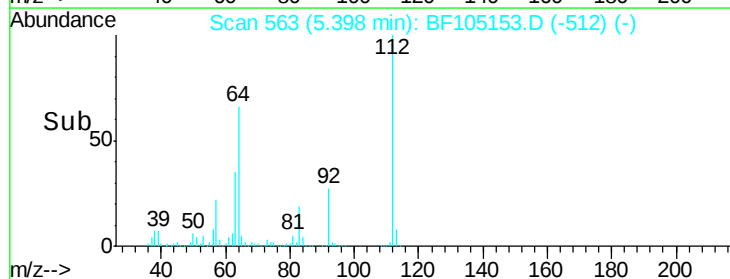
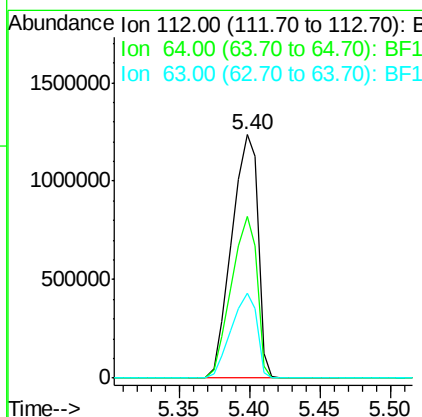
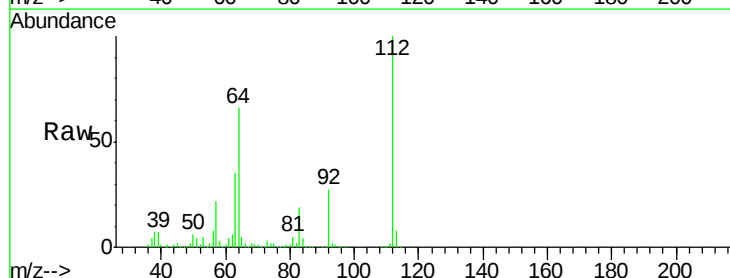
Tot Ion:152 Resp: 202659
Ion Ratio Lower Upper
152 100
150 160.1 124.6 186.8
115 60.8 50.1 75.1

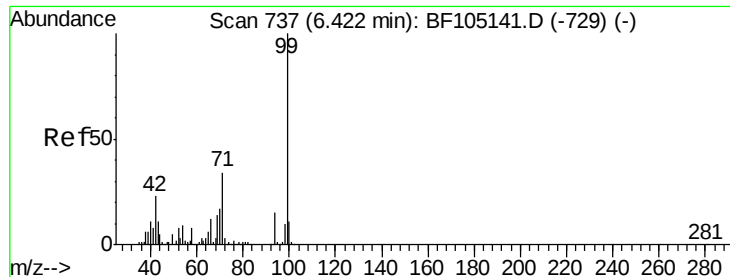


#5

2-Fluorophenol
Concen: 129.706 ng
RT: 5.40 min Scan# 563
Delta R.T. -0.00 min
Lab File: BF105153.D
Acq: 8 May 2018 19:26

Tgt Ion:112 Resp: 1595583
Ion Ratio Lower Upper
112 100
64 66.2 47.9 71.9
63 34.6 23.7 35.5





#7

Phenol-d6

Concen: 129.961 ng

RT: 6.42 min Scan# 737

Delta R.T. -0.00 min

Lab File: BF105153.D

Acq: 8 May 2018 19:26

Instrument :

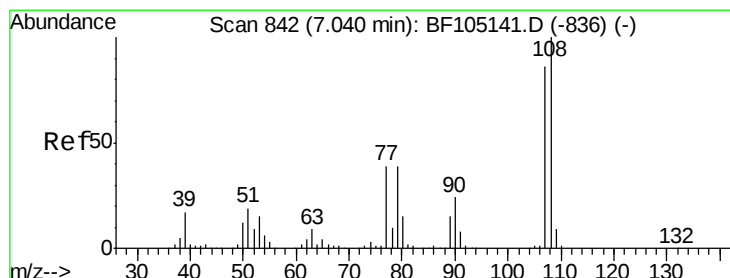
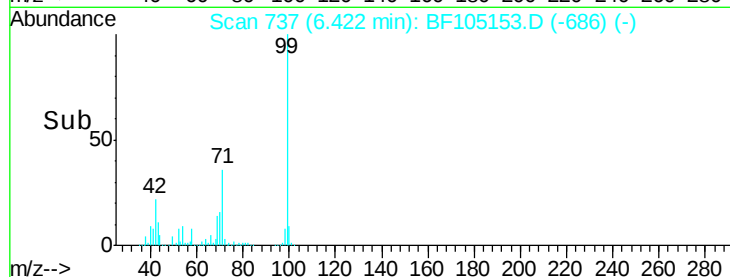
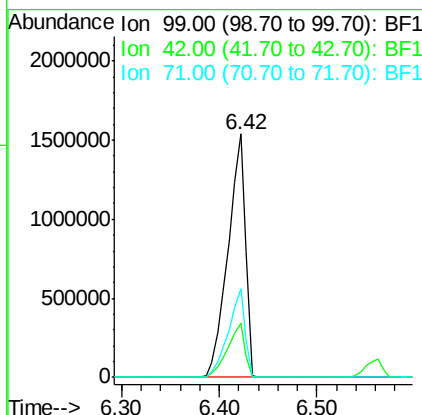
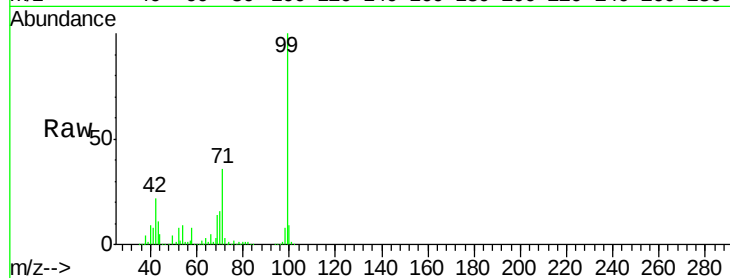
BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2018

Tot Ion: 99 Resp: 1903594

Ion	Ratio	Lower	Upper
99	100		
42	22.2	14.5	21.7#
71	36.4	25.4	38.0



#17

2-Methylphenol

Concen: 2.135 ng

RT: 7.03 min Scan# 841

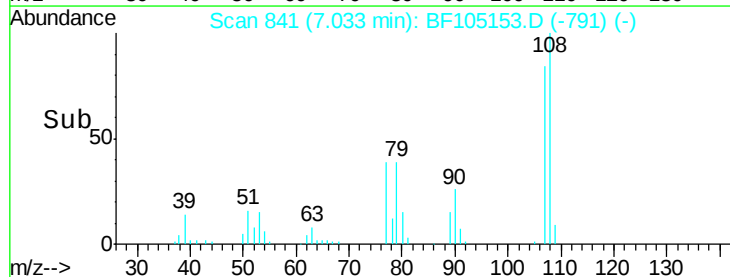
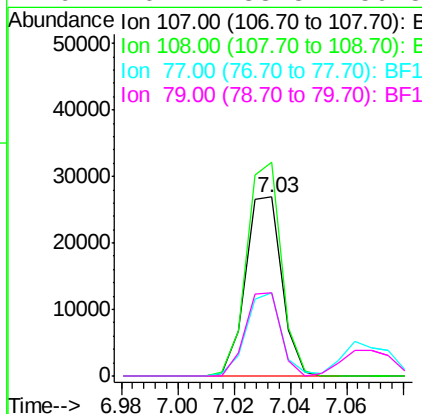
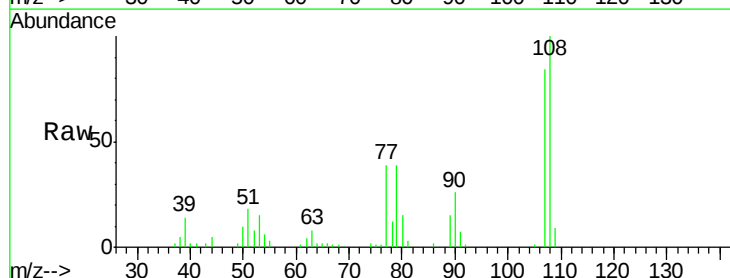
Delta R.T. -0.01 min

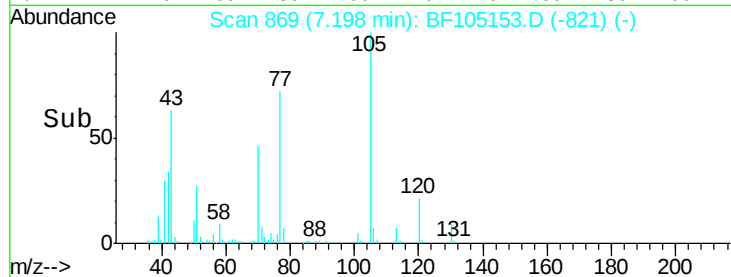
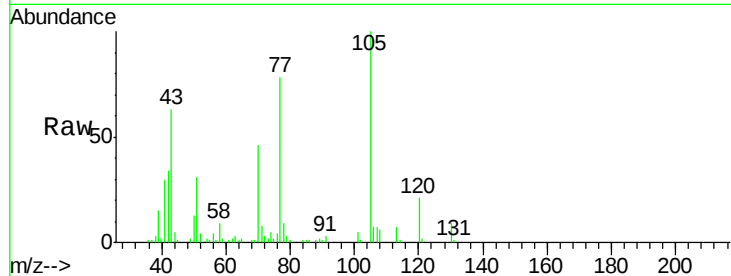
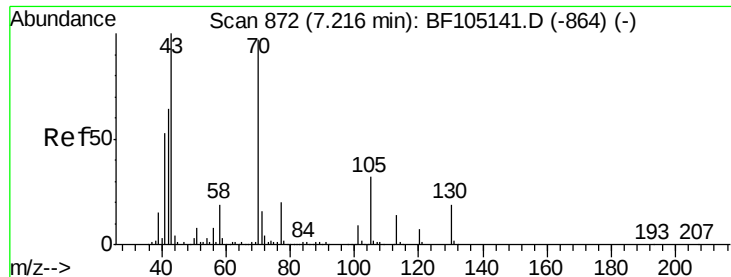
Lab File: BF105153.D

Acq: 8 May 2018 19:26

Tgt Ion: 107 Resp: 24051

Ion	Ratio	Lower	Upper
107	100		
108	119.3	91.7	137.5
77	46.8	33.8	50.8
79	46.7	33.8	50.8

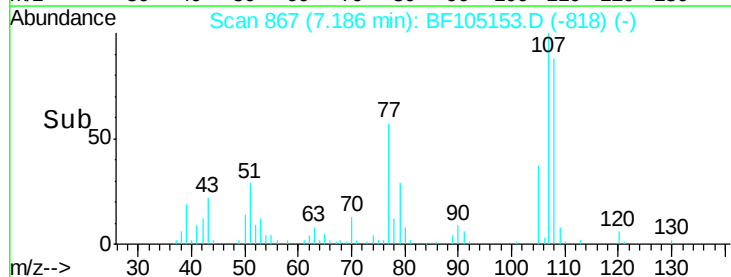
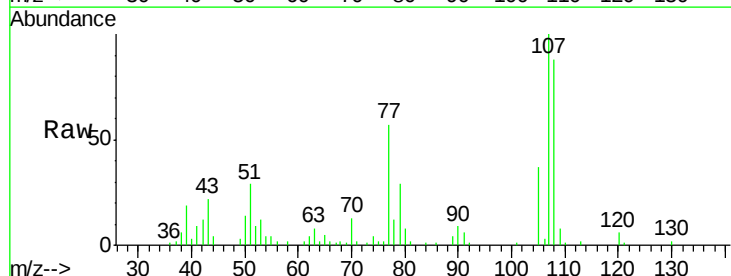
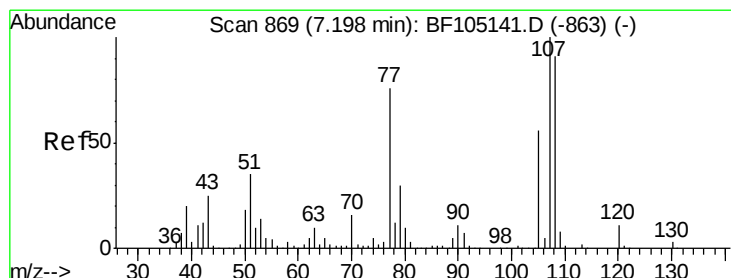
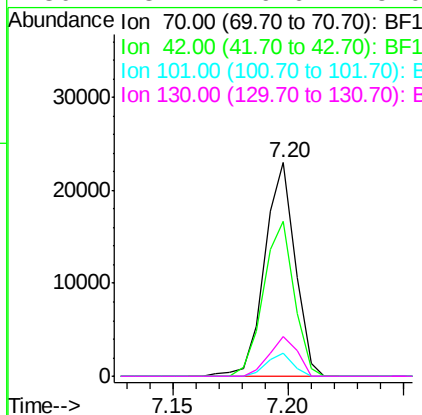




#19
n-Nitroso-di-n-propylamine
Concen: 2.177 ng
RT: 7.20 min Scan# 869
Delta R.T. -0.02 min
Lab File: BF105153.D
Acq: 8 May 2018 19:26

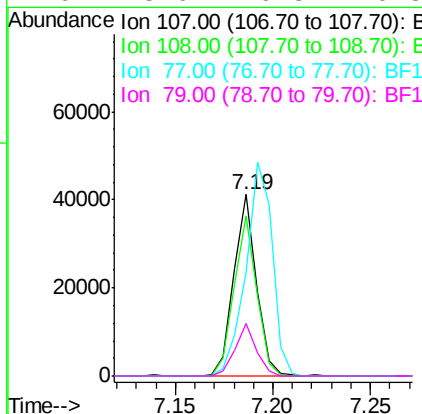
Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2018

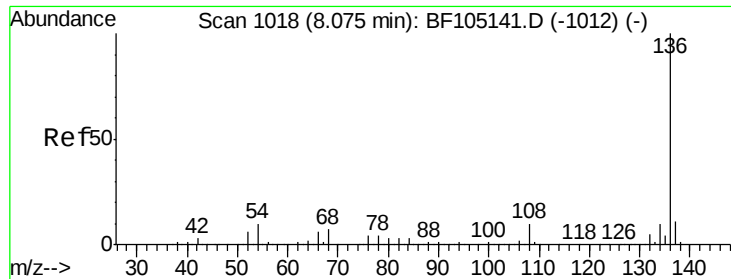
Tot Ion: 70 Resp: 21113
Ion Ratio Lower Upper
70 100
42 72.4 47.5 71.3#
101 10.7 7.4 11.2
130 18.4 16.6 25.0



#20
3+4-Methylphenols
Concen: 2.512 ng
RT: 7.19 min Scan# 867
Delta R.T. -0.01 min
Lab File: BF105153.D
Acq: 8 May 2018 19:26

Tgt Ion: 107 Resp: 33257
Ion Ratio Lower Upper
107 100
108 87.9 68.2 108.2
77 57.4 26.7 66.7
79 28.6 6.3 46.3

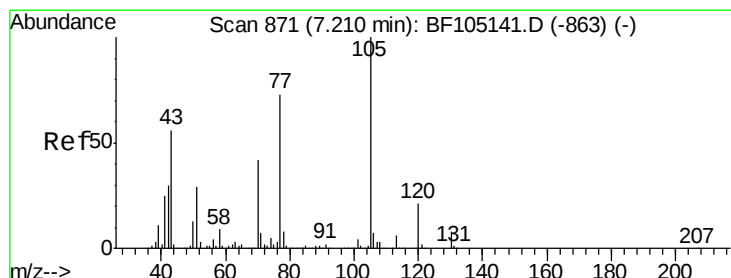
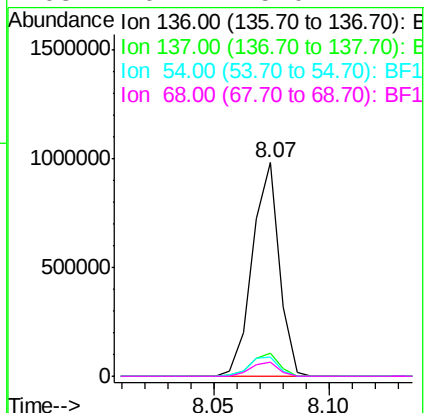
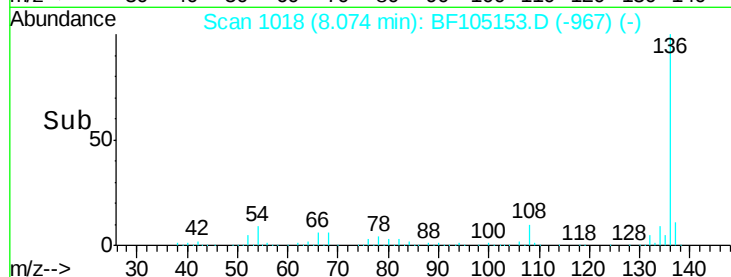
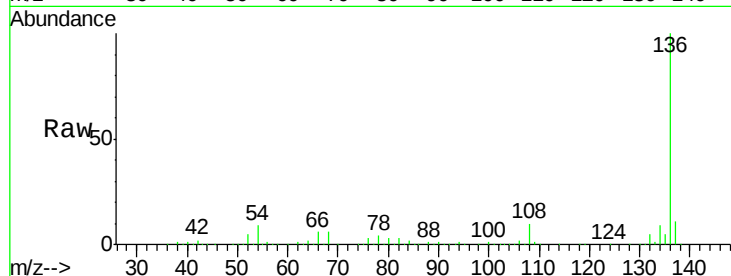




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.07 min Scan# 1018
Delta R.T. -0.00 min
Lab File: BF105153.D
Acq: 8 May 2018 19:26

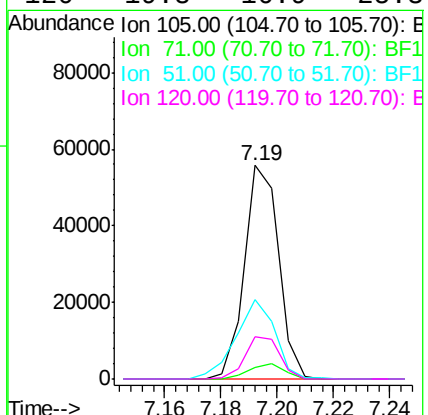
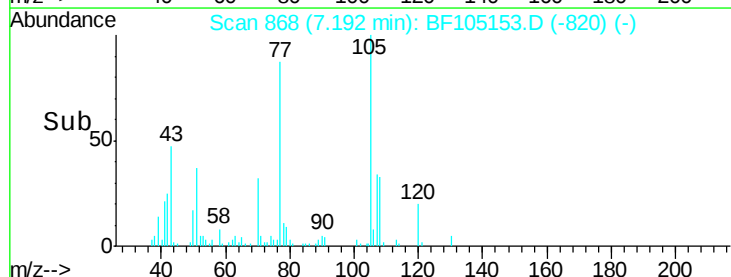
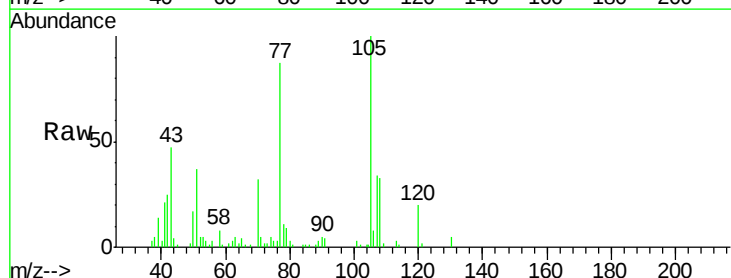
Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2018

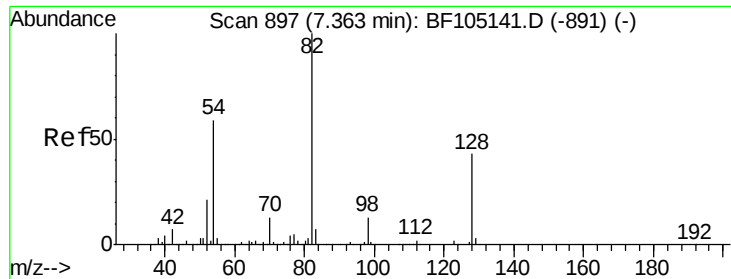
Tot Ion:136	Resp:	800637
Ion Ratio	Lower	Upper
136	100	
137	10.9	8.9 13.3
54	9.3	6.6 9.8
68	6.4	5.0 7.4



#22
Acetophenone
Concen: 2.508 ng
RT: 7.19 min Scan# 868
Delta R.T. -0.02 min
Lab File: BF105153.D
Acq: 8 May 2018 19:26

Tgt Ion:105	Resp:	46806
Ion Ratio	Lower	Upper
105	100	
71	5.2	4.4 6.6
51	36.9	22.3 33.5#
120	19.8	16.9 25.3

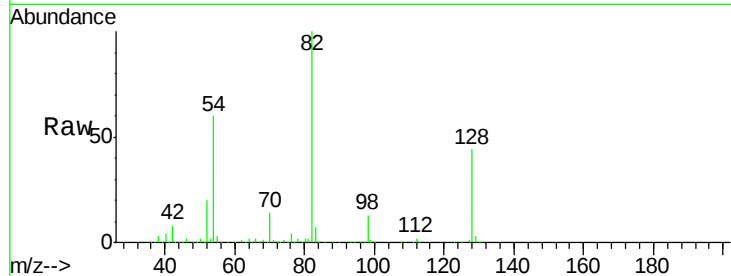




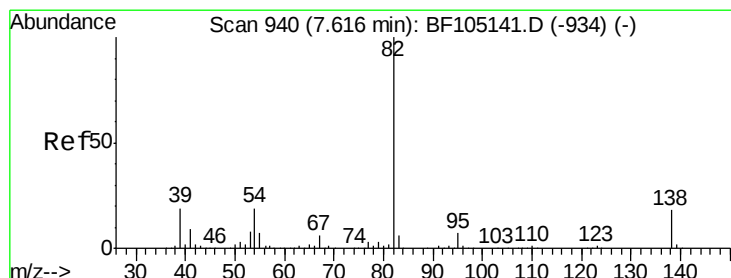
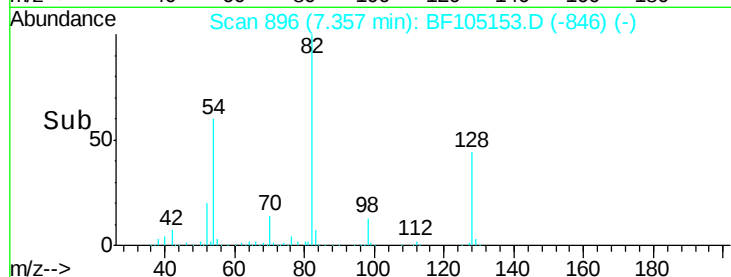
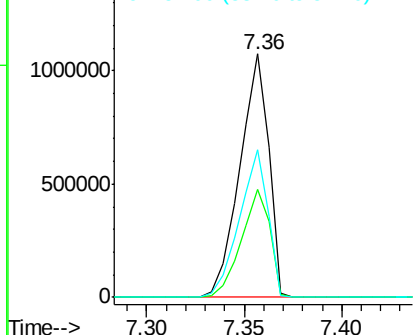
#23
Nitrobenzene-d5
Concen: 92.897 ng
RT: 7.36 min Scan# 896
Delta R.T. -0.01 min
Lab File: BF105153.D
Acq: 8 May 2018 19:26

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

Tot Ion: 82 Resp: 1097425
Ion Ratio Lower Upper
82 100
128 44.2 36.1 54.1
54 60.4 41.4 62.2

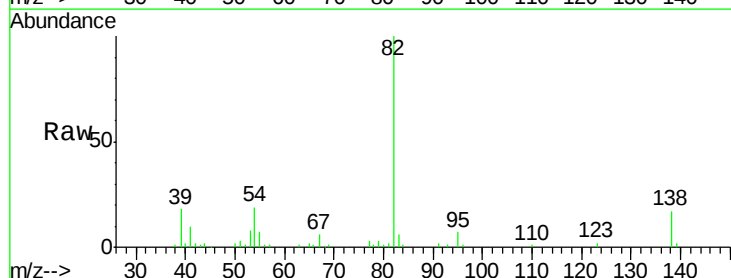


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

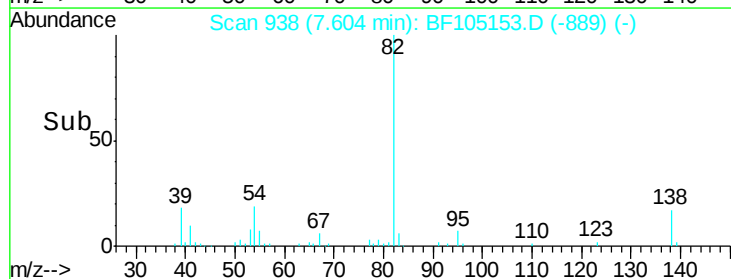
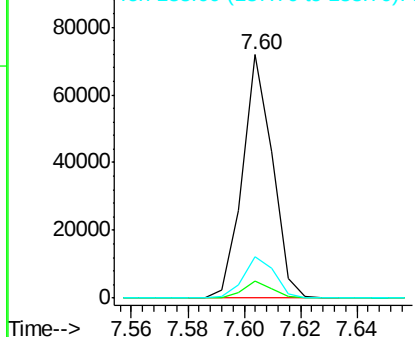


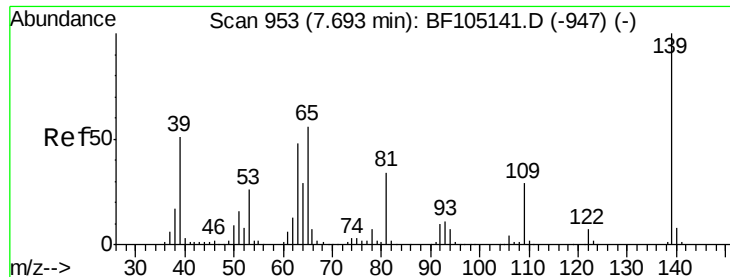
#25
Isophorone
Concen: 1.999 ng
RT: 7.60 min Scan# 938
Delta R.T. -0.01 min
Lab File: BF105153.D
Acq: 8 May 2018 19:26

Tgt Ion: 82 Resp: 52805
Ion Ratio Lower Upper
82 100
95 6.8 5.2 7.8
138 17.1 14.9 22.3



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 95.00 (94.70 to 95.70): BF1
Ion 138.00 (137.70 to 138.70): BF1

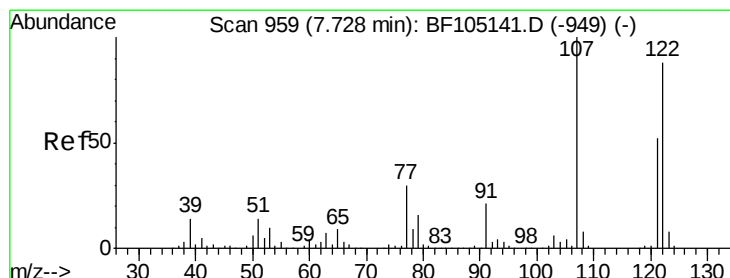
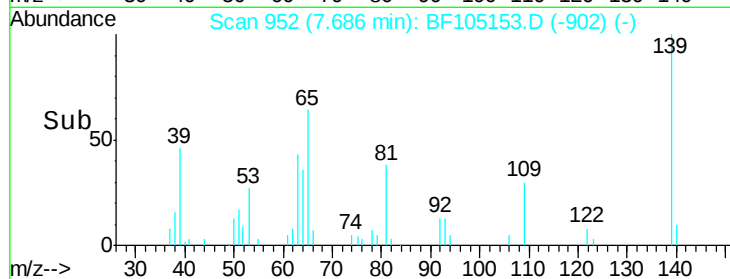
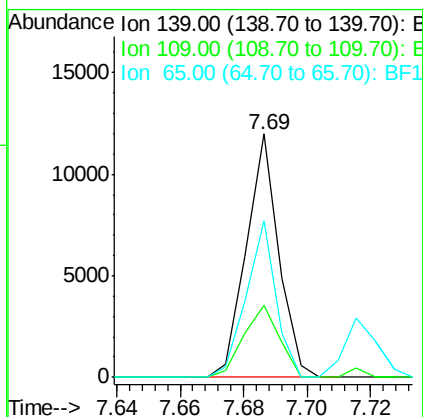
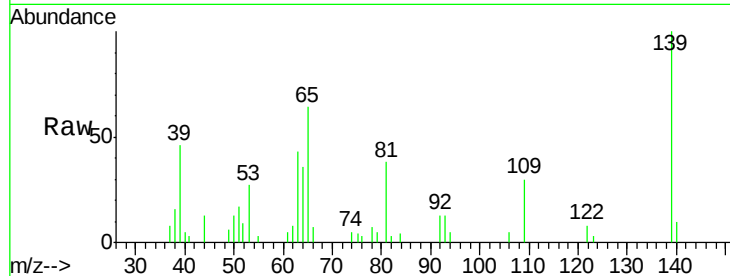




#26
2-Nitrophenol
Concen: 11.179 ng
RT: 7.69 min Scan# 952
Delta R.T. -0.01 min
Lab File: BF105153.D
Acq: 8 May 2018 19:26

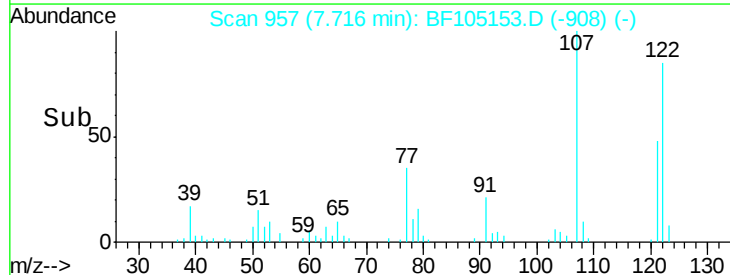
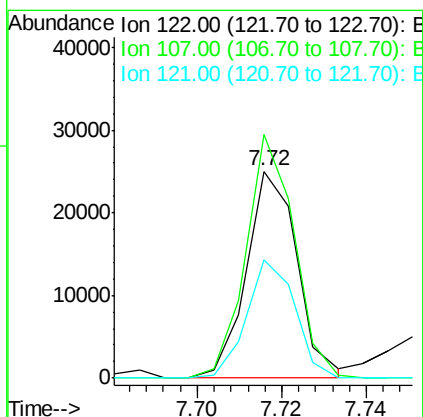
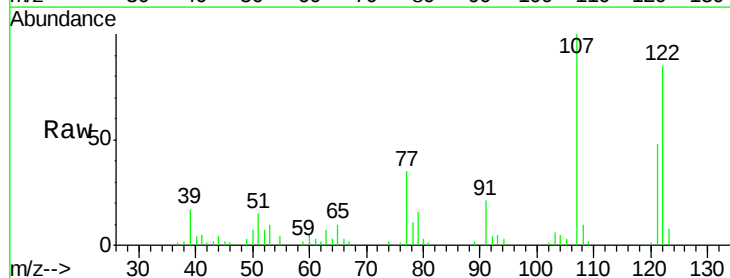
Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2018

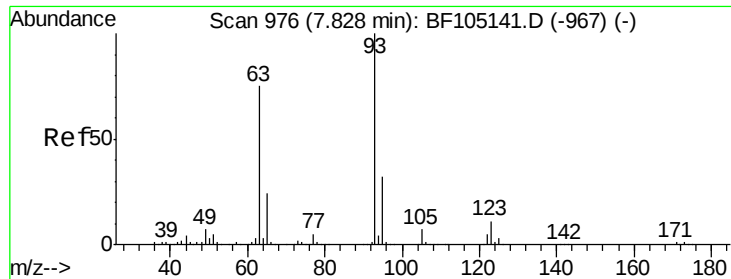
Tot Ion:139 Resp: 8467
Ion Ratio Lower Upper
139 100
109 29.9 22.7 34.1
65 64.3 40.5 60.7#



#27
2,4-Dimethylphenol
Concen: 1.790 ng
RT: 7.72 min Scan# 957
Delta R.T. -0.01 min
Lab File: BF105153.D
Acq: 8 May 2018 19:26

Tgt Ion:122 Resp: 21013
Ion Ratio Lower Upper
122 100
107 117.6 91.2 136.8
121 56.9 47.2 70.8

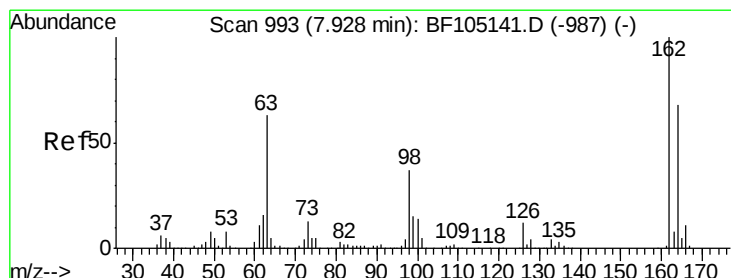
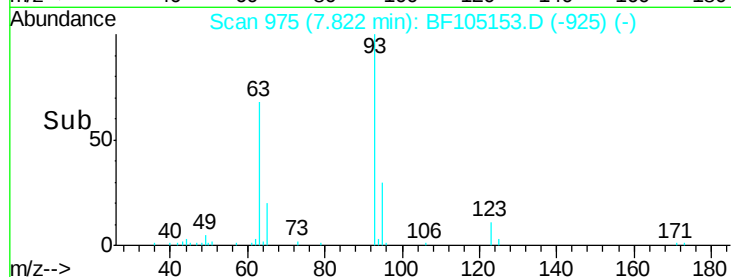
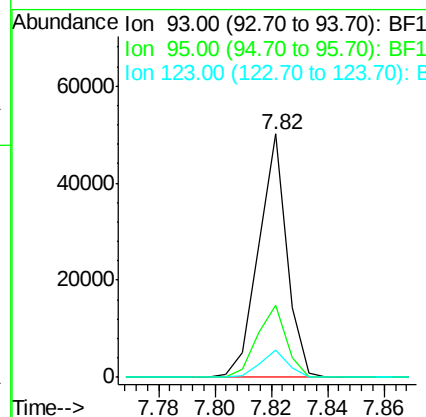
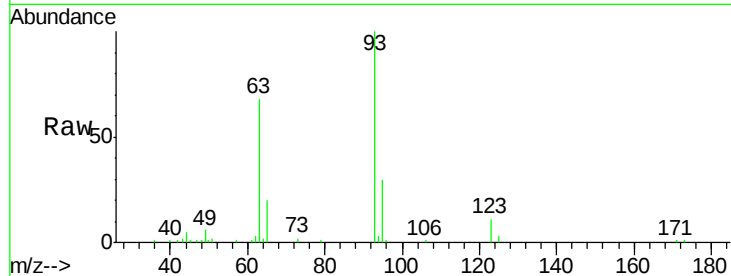




#28
bis(2-Chloroethoxy)methane
Concen: 2.133 ng
RT: 7.82 min Scan# 975
Delta R.T. -0.01 min
Lab File: BF105153.D
Acq: 8 May 2018 19:26

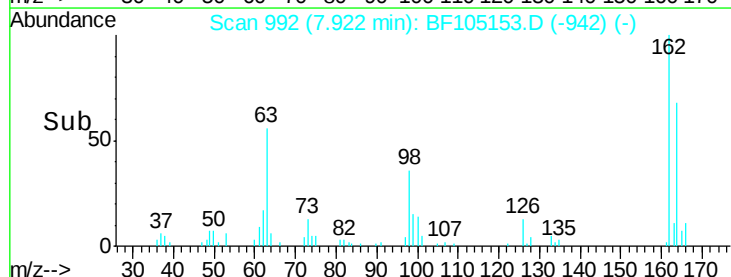
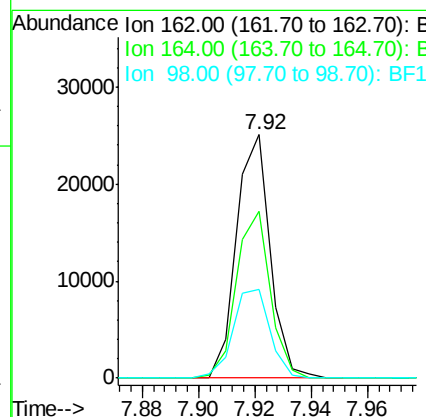
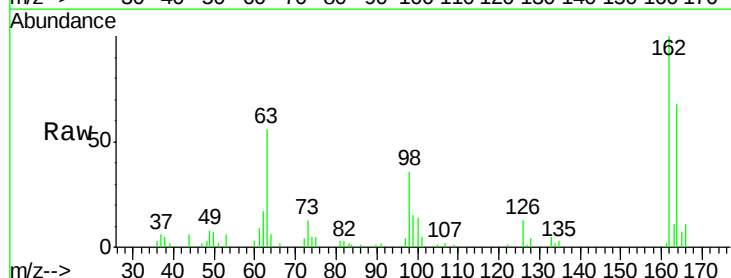
Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2018

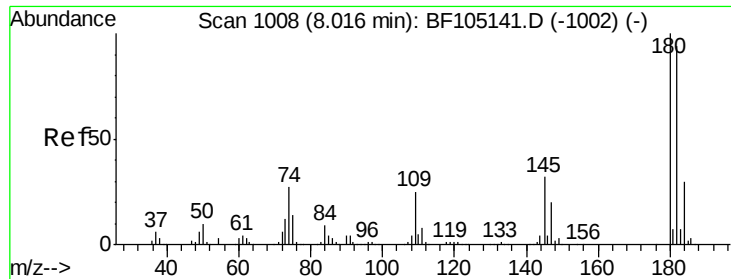
Tot Ion: 93 Resp: 34781
Ion Ratio Lower Upper
93 100
95 29.7 26.3 39.5
123 11.0 9.8 14.6



#29
2,4-Dichlorophenol
Concen: 1.889 ng
RT: 7.92 min Scan# 992
Delta R.T. -0.01 min
Lab File: BF105153.D
Acq: 8 May 2018 19:26

Tgt Ion: 162 Resp: 20748
Ion Ratio Lower Upper
162 100
164 68.3 42.7 82.7
98 36.2 18.1 58.1

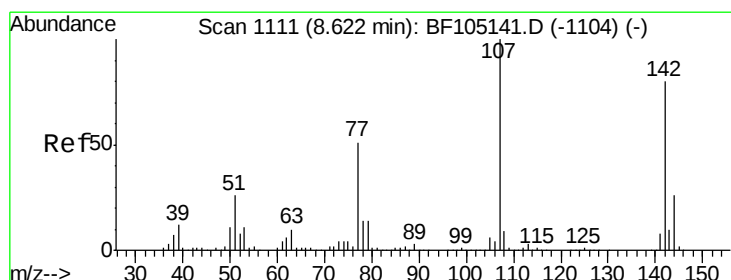
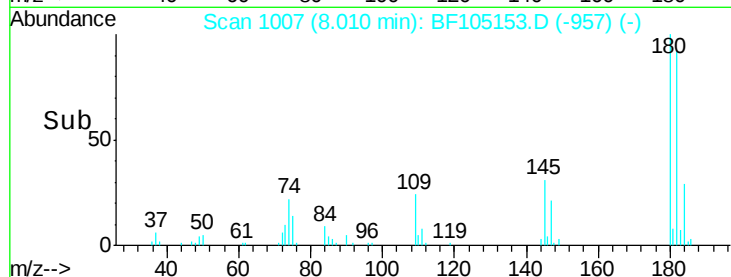
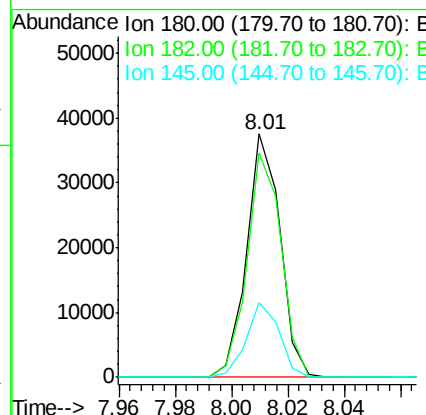
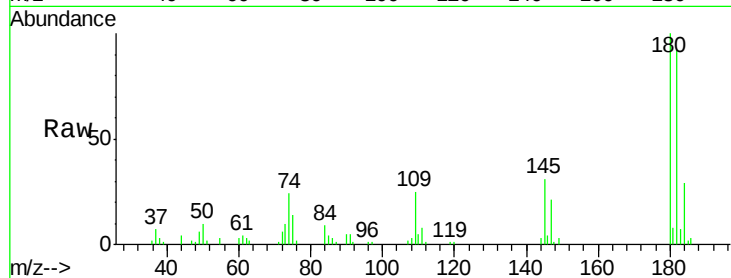




#30
 1,2,4-Trichlorobenzene
 Concen: 2.430 ng
 RT: 8.01 min Scan# 1007
 Delta R.T. -0.01 min
 Lab File: BF105153.D
 Acq: 8 May 2018 19:26

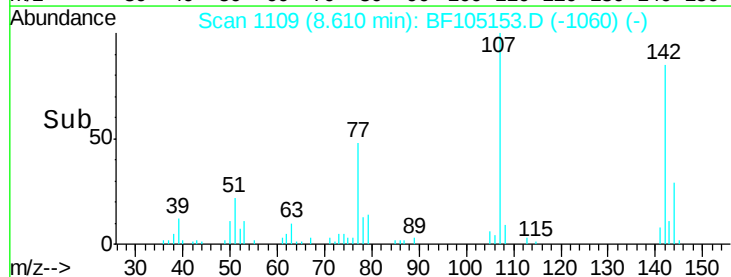
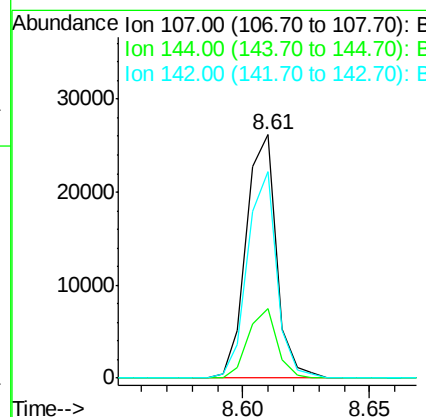
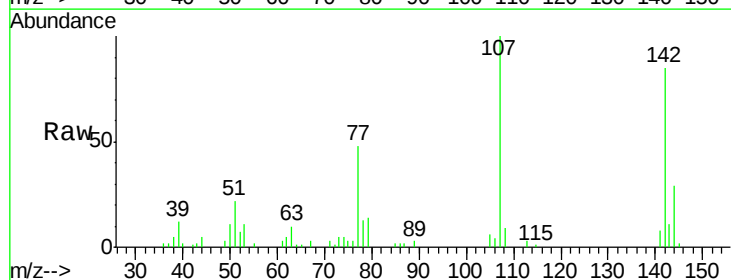
Instrument :
 BNA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2018

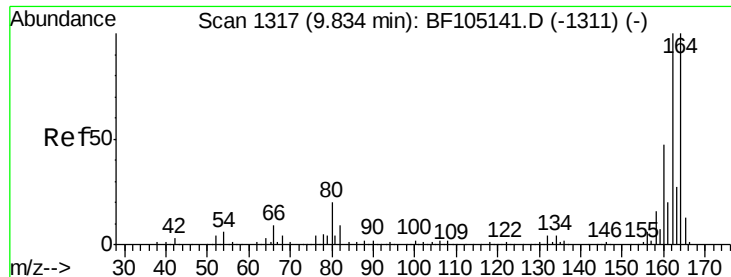
Tot Ion:180 Resp: 30777
 Ion Ratio Lower Upper
 180 100
 182 92.2 76.8 115.2
 145 30.9 26.5 39.7



#36
 4-Chloro-3-methylphenol
 Concen: 1.897 ng
 RT: 8.61 min Scan# 1109
 Delta R.T. -0.01 min
 Lab File: BF105153.D
 Acq: 8 May 2018 19:26

Tgt Ion:107 Resp: 21697
 Ion Ratio Lower Upper
 107 100
 144 28.6 20.5 30.7
 142 84.9 62.0 93.0

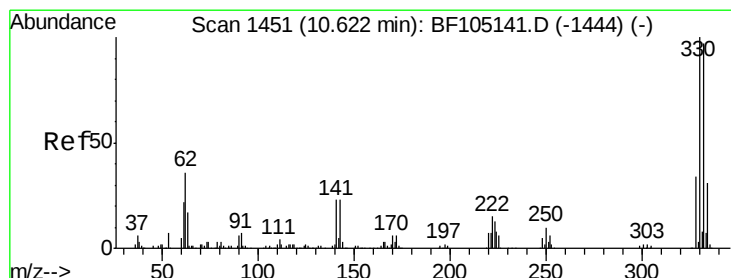
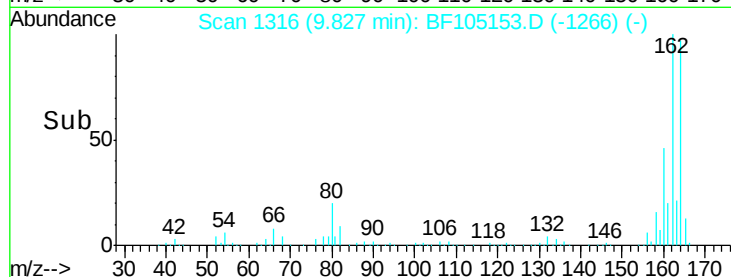
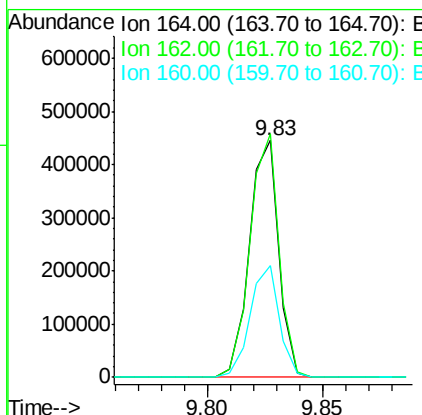
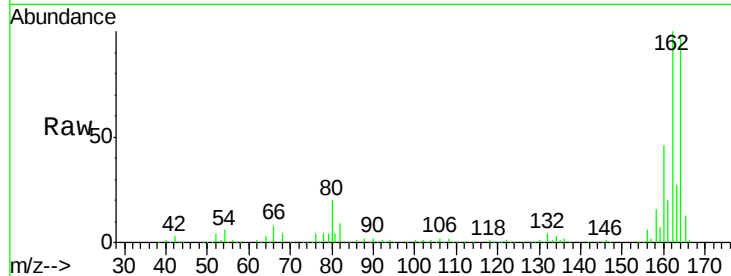




#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.83 min Scan# 1316
Delta R.T. -0.01 min
Lab File: BF105153.D
Acq: 8 May 2018 19:26

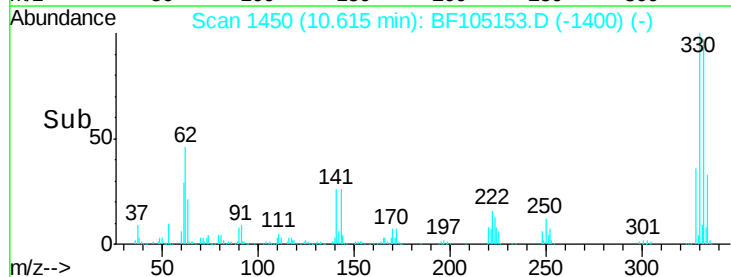
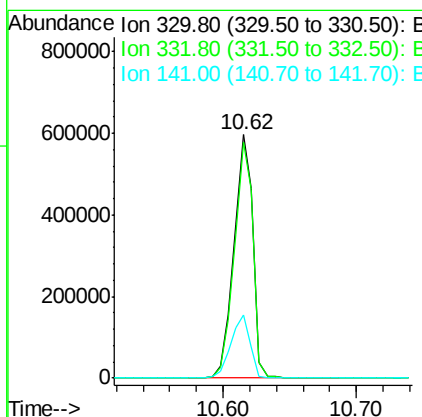
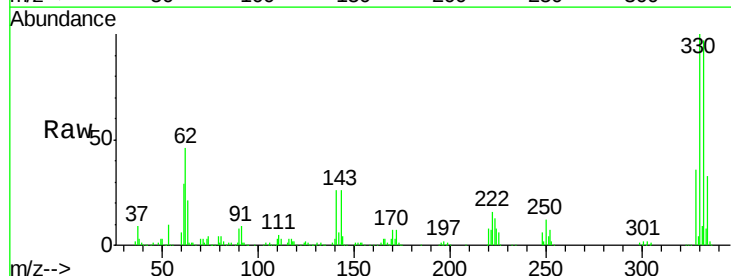
Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2018

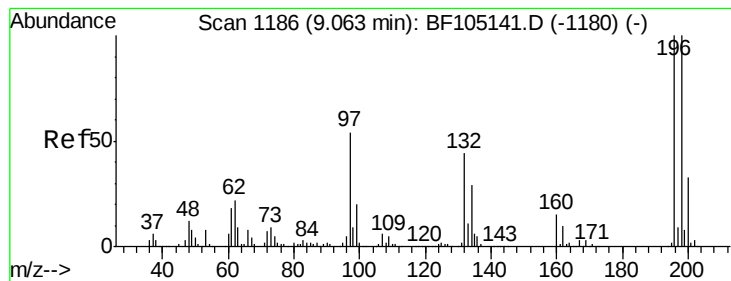
Tot Ion:164 Resp: 395610
Ion Ratio Lower Upper
164 100
162 102.7 86.1 129.1
160 47.0 38.3 57.5



#41
2,4,6-Tribromophenol
Concen: 136.195 ng
RT: 10.62 min Scan# 1450
Delta R.T. -0.01 min
Lab File: BF105153.D
Acq: 8 May 2018 19:26

Tgt Ion:330 Resp: 594447
Ion Ratio Lower Upper
330 100
332 96.4 77.0 115.6
141 26.5 29.9 44.9#





#42

2,4,6-Trichlorophenol

Concen: 1.969 ng

RT: 9.06 min Scan# 1185

Delta R.T. -0.01 min

Lab File: BF105153.D

Acq: 8 May 2018 19:26

Instrument :

BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2018

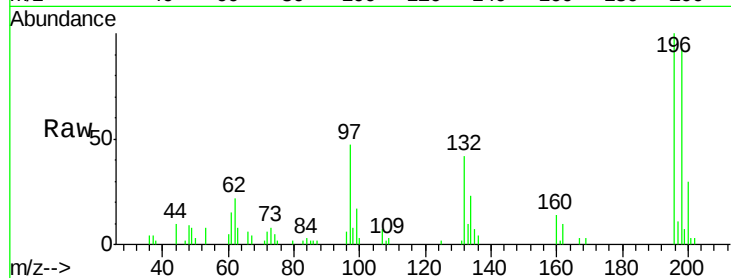
Tot Ion:196 Resp: 15125

Ion Ratio Lower Upper

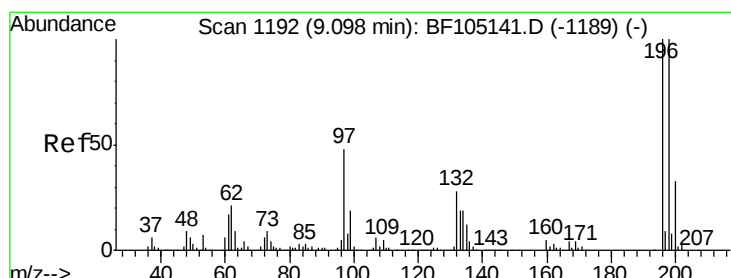
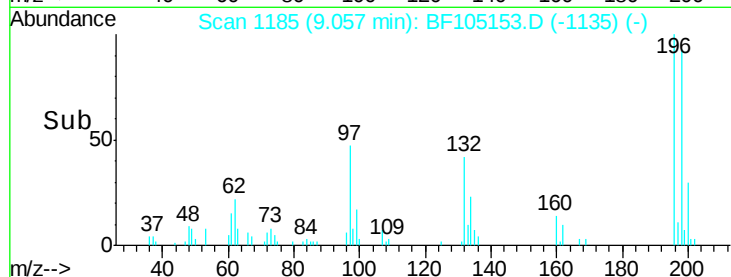
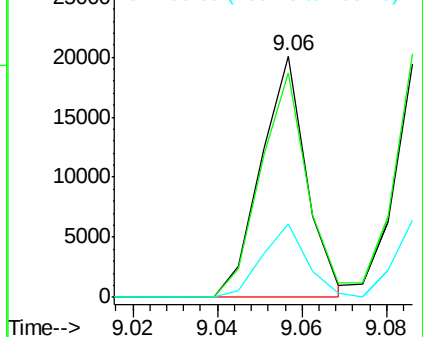
196 100

198 93.3 75.7 113.5

200 30.2 24.5 36.7



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: 2.126 ng

RT: 9.09 min Scan# 1190

Delta R.T. -0.01 min

Lab File: BF105153.D

Acq: 8 May 2018 19:26

Tgt Ion:196 Resp: 17066

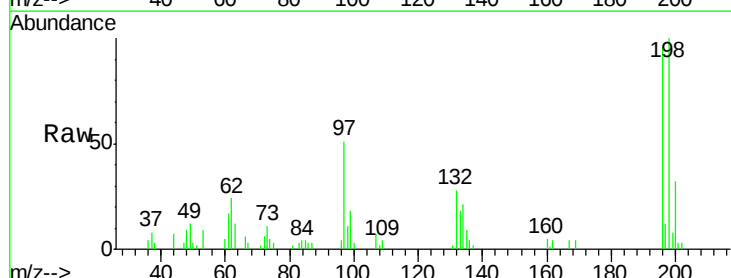
Ion Ratio Lower Upper

196 100

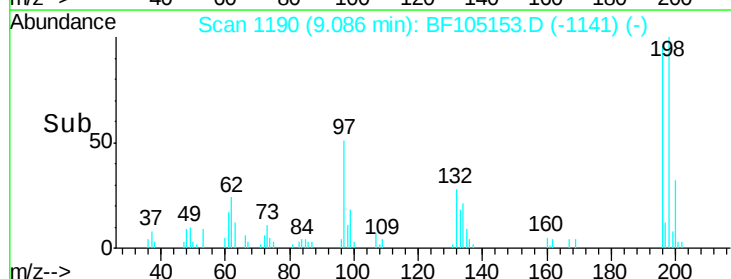
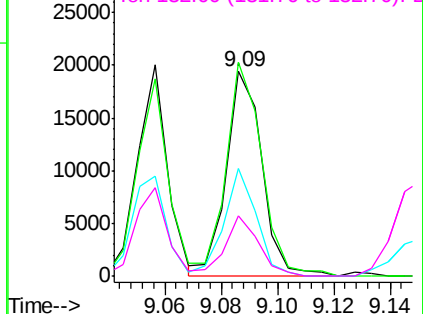
198 104.5 74.6 112.0

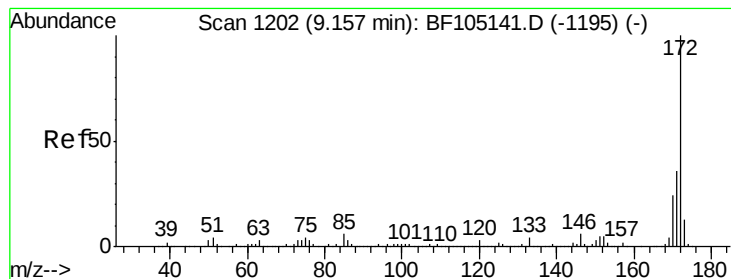
97 52.9 42.9 64.3

132 29.7 26.3 39.5



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): BF1
Ion 132.00 (131.70 to 132.70): E





#44

2-Fluorobiphenyl

Concen: 78.687 ng

RT: 9.15 min Scan# 1201

Delta R.T. -0.01 min

Lab File: BF105153.D

Acq: 8 May 2018 19:26

Instrument :

BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2018

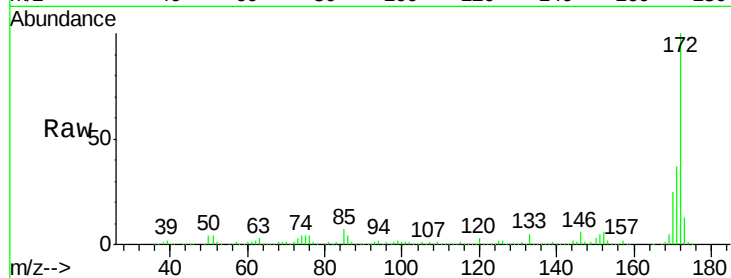
Tot Ion:172 Resp: 2005623

Ion Ratio Lower Upper

172 100

171 37.4 29.7 44.5

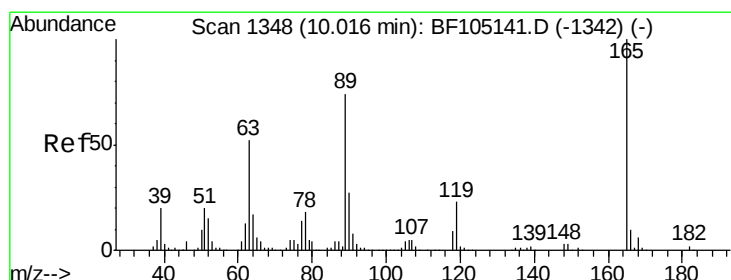
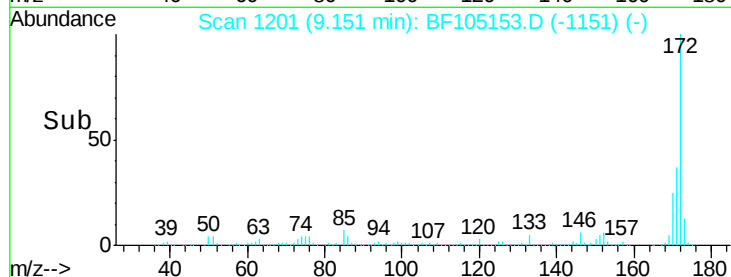
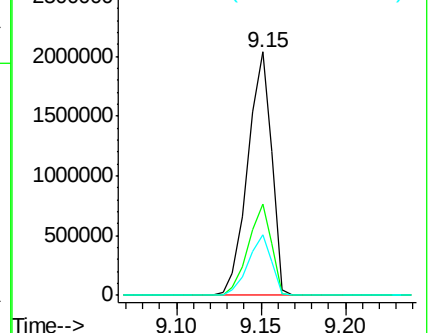
170 24.8 19.6 29.4



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: 4.989 ng

RT: 10.00 min Scan# 1346

Delta R.T. -0.01 min

Lab File: BF105153.D

Acq: 8 May 2018 19:26

Tgt Ion:165 Resp: 11537

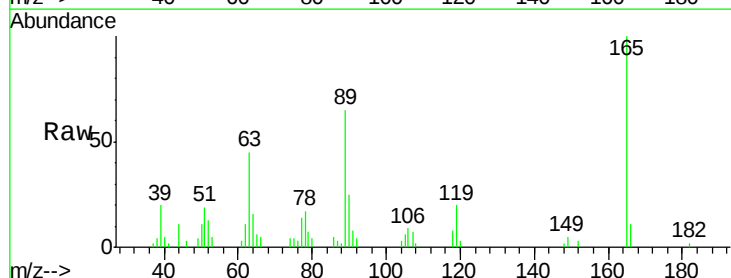
Ion Ratio Lower Upper

165 100

63 45.0 36.4 54.6

89 65.4 57.8 86.6

182 2.1 1.6 2.4

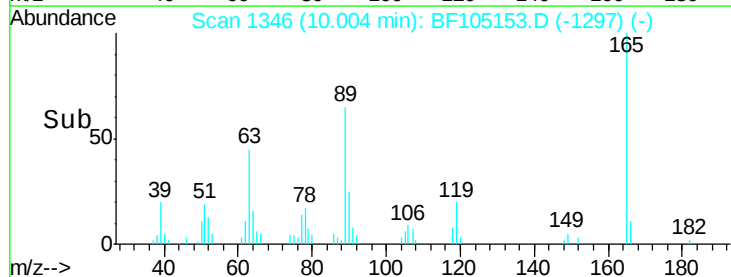
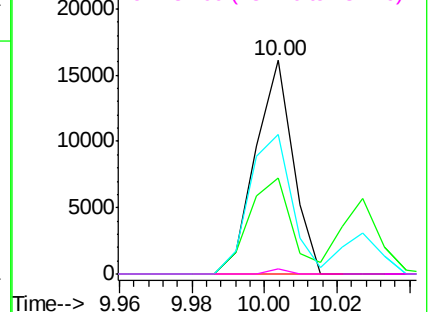


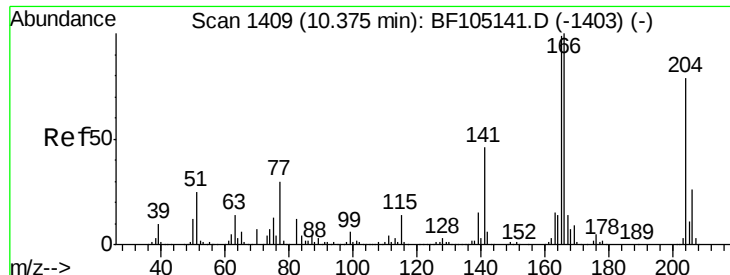
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E

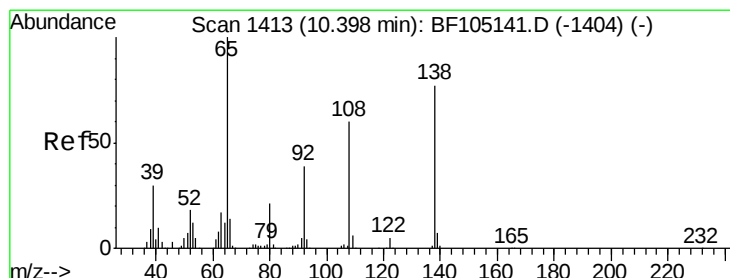
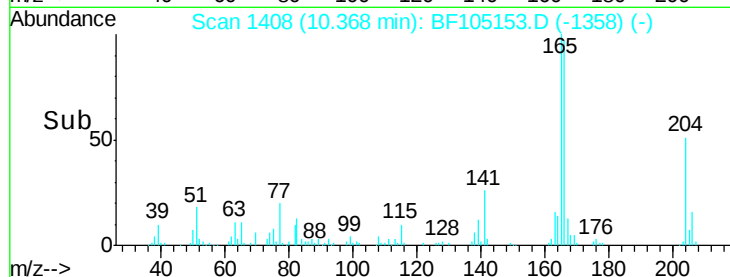
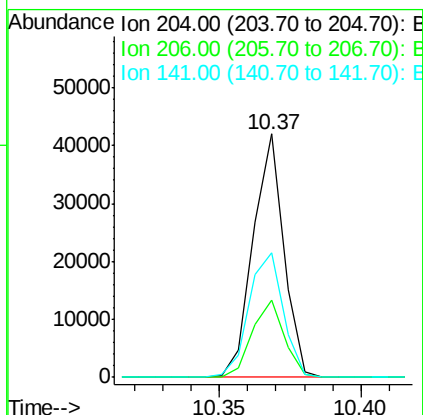
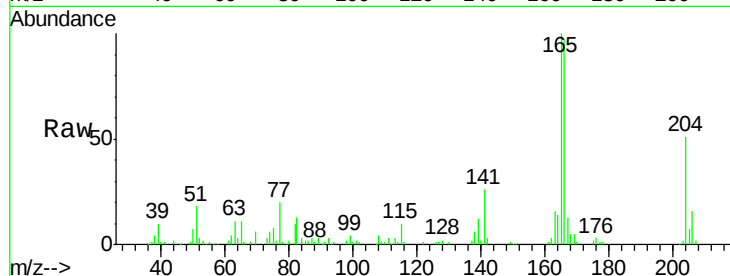




#60
 4-Chlorophenyl-phenylether
 Concen: 2.647 ng
 RT: 10.37 min Scan# 1408
 Delta R.T. -0.01 min
 Lab File: BF105153.D
 Acq: 8 May 2018 19:26

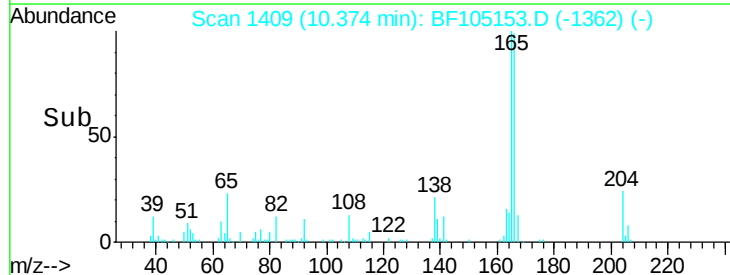
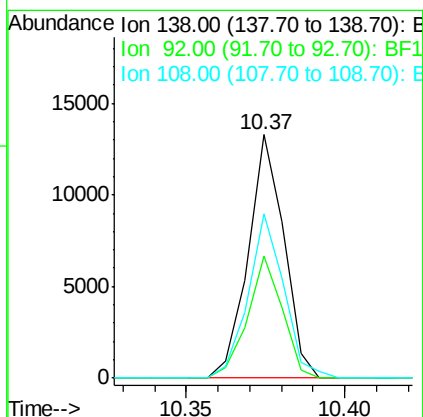
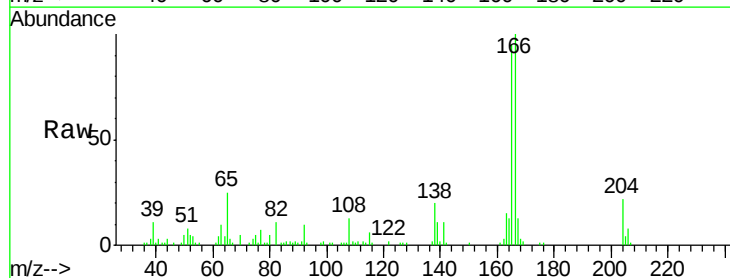
Instrument :
 BNA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2018

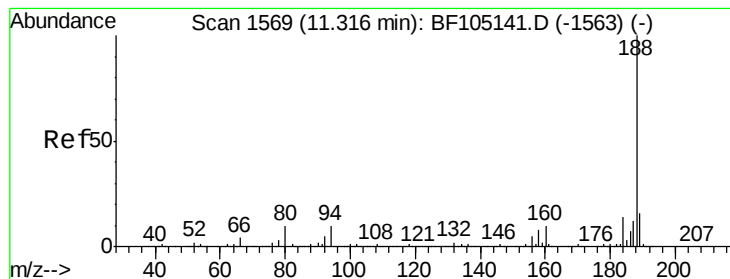
Tot Ion: 204 Resp: 31697
 Ion Ratio Lower Upper
 204 100
 206 31.9 26.5 39.7
 141 51.3 54.6 81.8#



#61
 4-Nitroaniline
 Concen: 1.711 ng
 RT: 10.37 min Scan# 1409
 Delta R.T. -0.02 min
 Lab File: BF105153.D
 Acq: 8 May 2018 19:26

Tgt Ion: 138 Resp: 10420
 Ion Ratio Lower Upper
 138 100
 92 50.3 30.2 70.2
 108 67.5 52.5 92.5





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.31 min Scan# 1568

Delta R.T. -0.01 min

Lab File: BF105153.D

Acq: 8 May 2018 19:26

Instrument :

BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2018

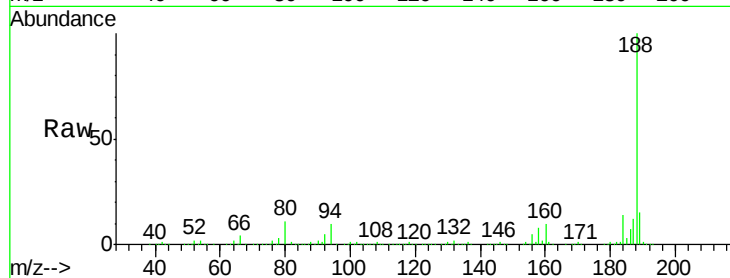
Tot Ion:188 Resp: 774047

Ion Ratio Lower Upper

188 100

94 9.9 8.5 12.7

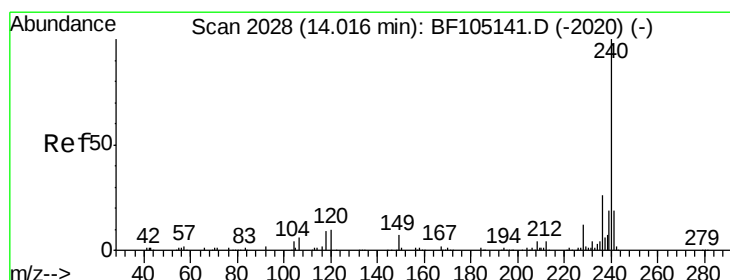
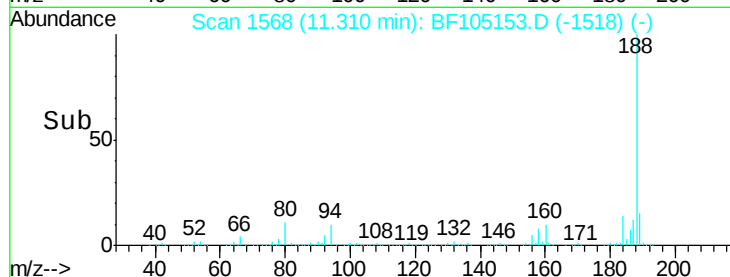
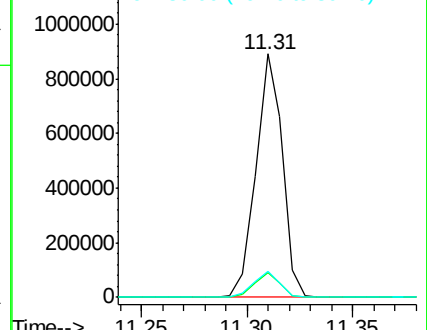
80 10.7 9.2 13.8



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.98 min Scan# 2022

Delta R.T. -0.04 min

Lab File: BF105153.D

Acq: 8 May 2018 19:26

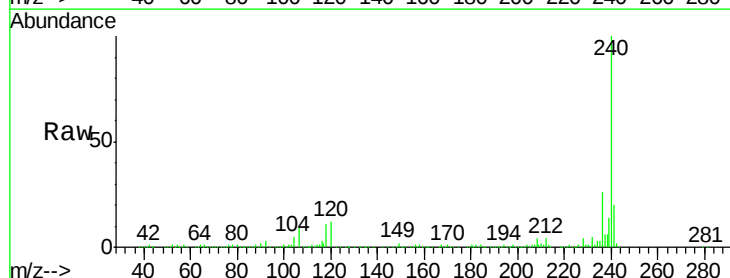
Tgt Ion:240 Resp: 670957

Ion Ratio Lower Upper

240 100

120 12.3 9.5 14.3

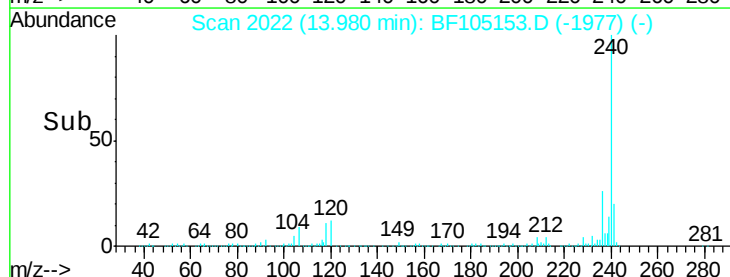
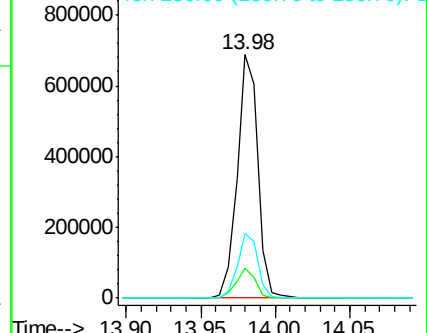
236 26.4 20.7 31.1

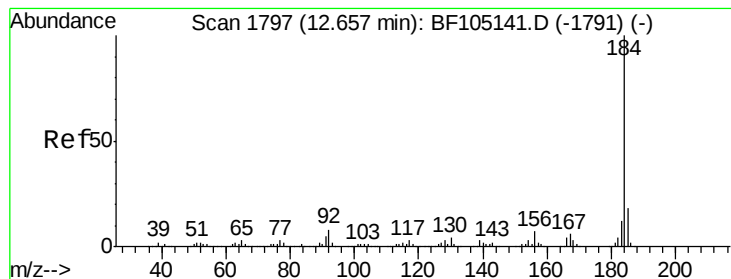


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#76

Benzidine

Concen: 0.052 ng

RT: 12.64 min Scan# 1795

Delta R.T. -0.01 min

Lab File: BF105153.D

Acq: 8 May 2018 19:26

Instrument :

BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2018

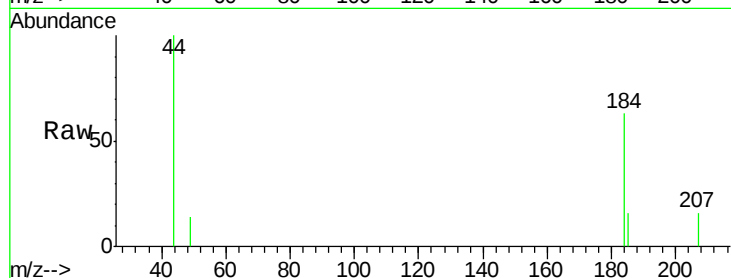
Tot Ion:184 Resp: 1305

Ion Ratio Lower Upper

184 100

185 25.2 12.6 18.8#

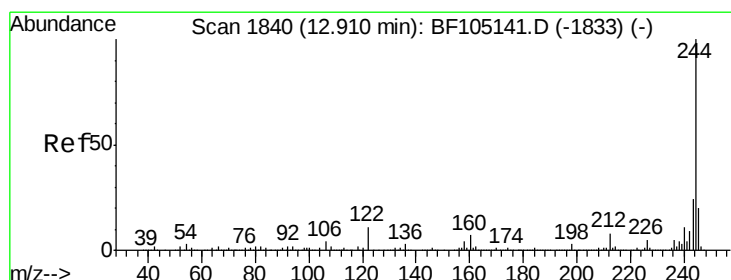
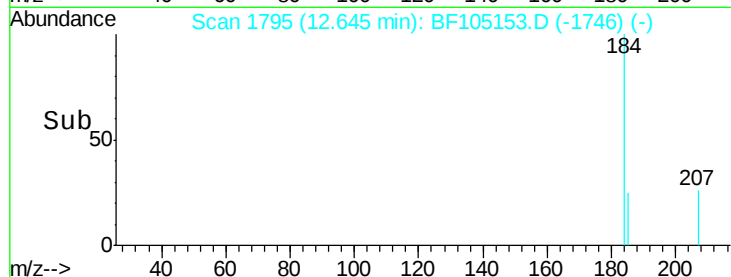
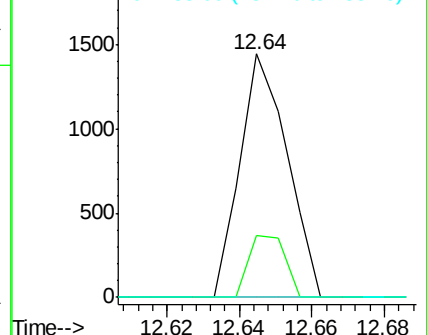
183 0.0 9.3 13.9#



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: 78.065 ng

RT: 12.90 min Scan# 1839

Delta R.T. -0.01 min

Lab File: BF105153.D

Acq: 8 May 2018 19:26

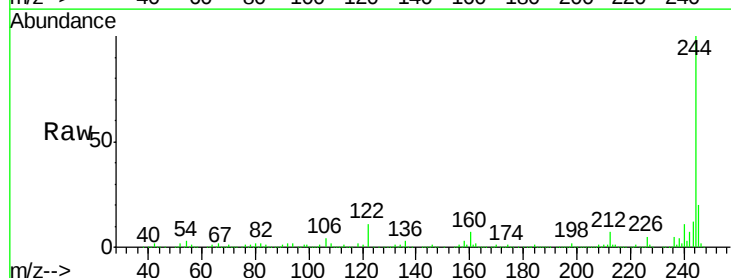
Tgt Ion:244 Resp: 2254896

Ion Ratio Lower Upper

244 100

212 7.4 5.4 8.0

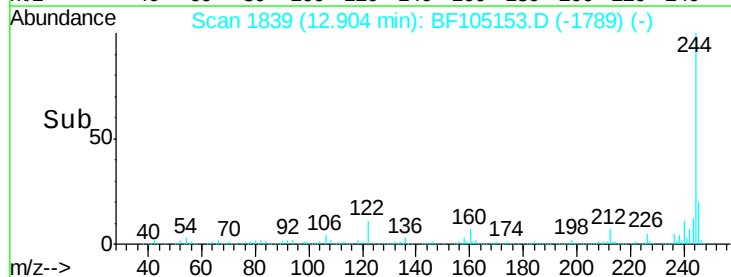
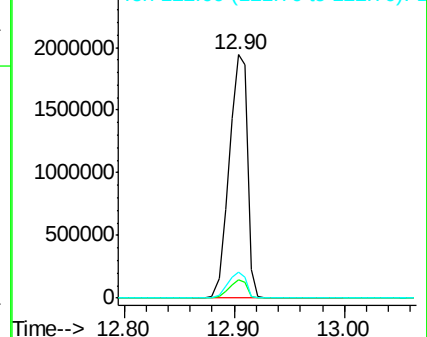
122 10.8 11.0 16.4#

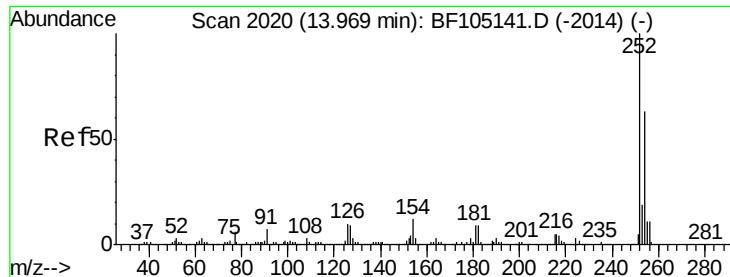


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

3,3'-Dichlorobenzidine

Concen: 1.379 ng

RT: 13.93 min Scan# 2014

Delta R.T. -0.04 min

Lab File: BF105153.D

Acq: 8 May 2018 19:26

Instrument :

BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2018

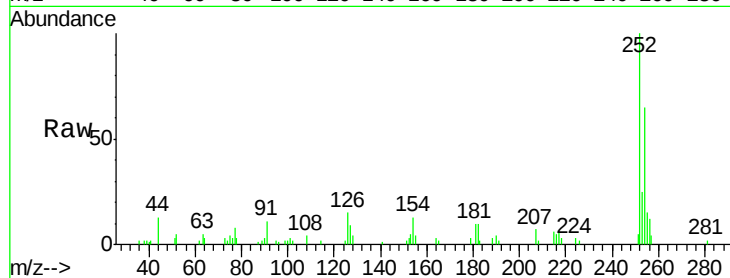
Tot Ion:252 Resp: 21098

Ion Ratio Lower Upper

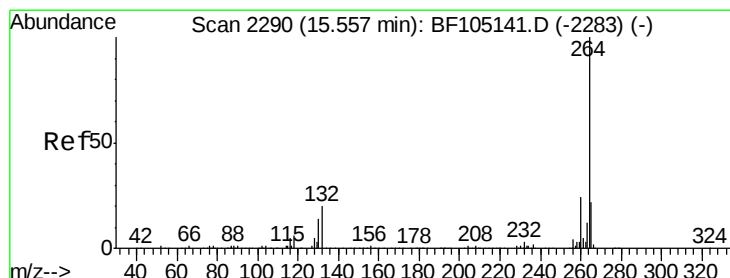
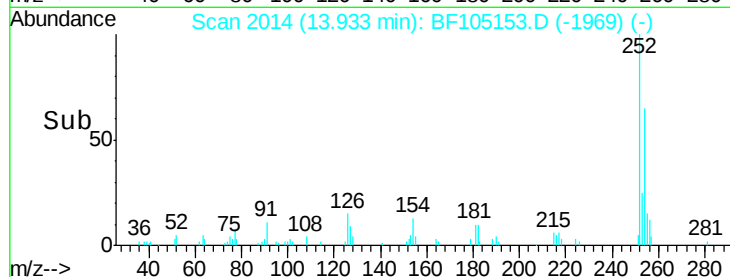
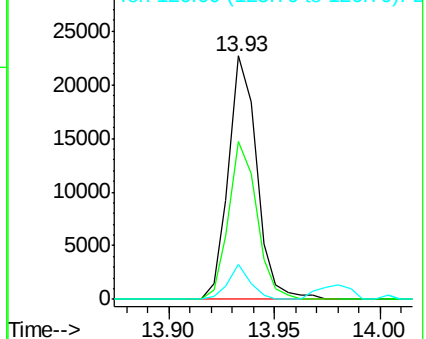
252 100

254 65.1 50.4 75.6

126 14.6 11.3 16.9



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: 15.50 min Scan# 2281

Delta R.T. -0.05 min

Lab File: BF105153.D

Acq: 8 May 2018 19:26

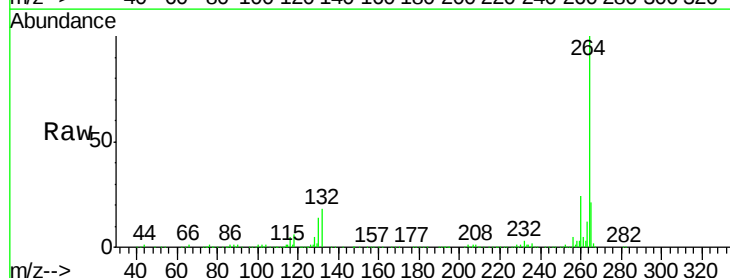
Tgt Ion:264 Resp: 619723

Ion Ratio Lower Upper

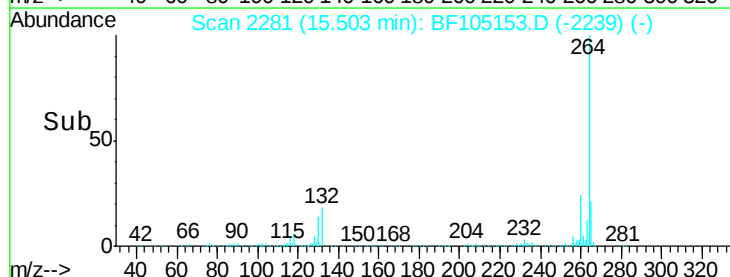
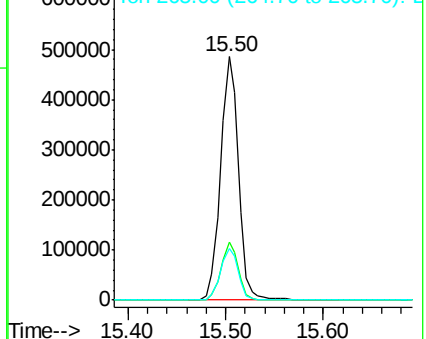
264 100

260 24.0 19.2 28.8

265 21.2 17.5 26.3



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 F\DATA\BF050818\
 Data File : BF105153.D
 Acq On : 8 May 2018 19:26
 Operator : JU/SJ
 Sample : J2133-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

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

Quant Time: May 09 08:54:02 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 08 16:33:54 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	202659	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	800637	20.00	ng	0.00
38) Acenaphthene-d10	9.83	164	395610	20.00	ng	0.00
63) Phenanthrene-d10	11.31	188	774047	20.00	ng	0.00
75) Chrysene-d12	13.98	240	670957	20.00	ng	-0.04
86) Perylene-d12	15.50	264	619723	20.00	ng	-0.05

System Monitoring Compounds

5) 2-Fluorophenol	5.40	112	1595583	129.71	ng	0.00
7) Phenol-d6	6.42	99	1903594	129.96	ng	0.00
23) Nitrobenzene-d5	7.36	82	1097425	92.90	ng	0.00
41) 2,4,6-Tribromophenol	10.62	330	594447	136.20	ng	0.00
44) 2-Fluorobiphenyl	9.15	172	2005623	78.69	ng	0.00
78) Terphenyl-d14	12.90	244	2254896	78.06	ng	0.00

Target Compounds

						Qvalue
17) 2-Methylphenol	7.03	107	24051	2.135	ng	95
19) n-Nitroso-di-n-propylamine	7.20	70	21113	2.177	ng	# 87
20) 3+4-Methylphenols	7.19	107	33257	2.512	ng	94
22) Acetophenone	7.19	105	46806	2.508	ng	# 90
25) Isophorone	7.60	82	52805	1.999	ng	97
26) 2-Nitrophenol	7.69	139	8467	11.179	ng	# 86
27) 2,4-Dimethylphenol	7.72	122	21013	1.790	ng	97
28) bis(2-Chloroethoxy)methane	7.82	93	34781	2.133	ng	95
29) 2,4-Dichlorophenol	7.92	162	20748	1.889	ng	94
30) 1,2,4-Trichlorobenzene	8.01	180	30777	2.430	ng	96
36) 4-Chloro-3-methylphenol	8.61	107	21697	1.897	ng	92
42) 2,4,6-Trichlorophenol	9.06	196	15125	1.969	ng	99
43) 2,4,5-Trichlorophenol	9.09	196	17066	2.126	ng	93
56) 2,4-Dinitrotoluene	10.00	165	11537	4.989	ng	95
60) 4-Chlorophenyl-phenylether	10.37	204	31697	2.647	ng	# 85
61) 4-Nitroaniline	10.37	138	10420	1.711	ng	96
76) Benzidine	12.64	184	1305	0.052	ng	# 74
81) 3,3'-Dichlorobenzidine	13.93	252	21098	1.379	ng	98

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