

Data Path : Z:\HPCHEM1\BNA G\DATA\BG031618\
 Data File : BG033199.D
 Acq On : 16 Mar 2018 14:52
 Operator : SJ/JU
 Sample : J1913-04RE
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 OILY-SOIL-M8

Quant Time: Mar 17 05:19:07 2018
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022118.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 14 13:59:34 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.90	152	38270	20.00	ng	0.00
21) Naphthalene-d8	11.79	136	151887	20.00	ng	0.00
38) Acenaphthene-d10	15.52	164	109548	20.00	ng	0.00
63) Phenanthrene-d10	18.25	188	317642	20.00	ng	0.00
75) Chrysene-d12	22.62	240	343780	20.00	ng	0.00
86) Perylene-d12	26.44	264	365180	20.00	ng	0.03

System Monitoring Compounds						
5) 2-Fluorophenol	6.32	112	351668	147.01	ng	0.00
7) Phenol-d6	8.01	99	478457	143.50	ng	0.00
23) Nitrobenzene-d5	10.10	82	372909	160.42	ng	0.00
41) 2,4,6-Tribromophenol	17.00	330	285401	247.77	ng	0.00
44) 2-Fluorobiphenyl	14.15	172	809635	106.59	ng	0.00
78) Terphenyl-d14	20.77	244	1694828	110.76	ng	0.00

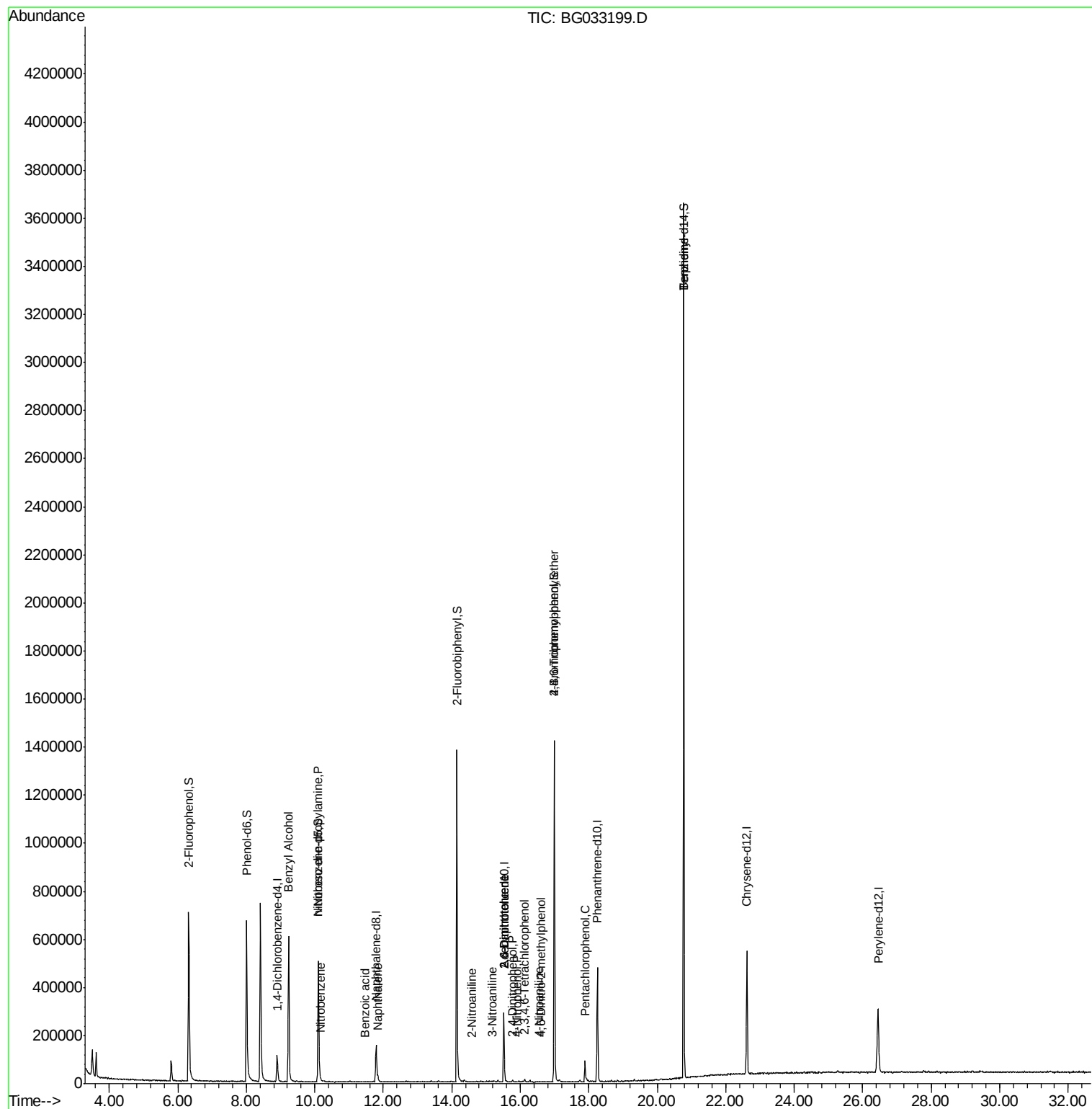
Target Compounds				Qvalue		
15) Benzyl Alcohol	9.23	79	6577	2.683	ng	# 56
19) n-Nitroso-di-n-propylamine	10.10	70	49315	20.950	ng	# 77
24) Nitrobenzene	10.17	77	73	6.406	ng	# 42
31) Naphthalene	11.84	128	25701	3.238	ng	# 96
32) Benzoic acid	11.46	122	87	5.888	ng	# 1
47) 2-Nitroaniline	14.58	65	55	9.860	ng	# 9
50) 2,6-Dinitrotoluene	15.52	165	14453	16.546	ng	# 21
52) 3-Nitroaniline	15.16	138	61	7.570	ng	# 1
53) 2,4-Dinitrophenol	15.76	184	82	3.631	ng	# 1
55) 4-Nitrophenol	15.91	139	217	7.210	ng	# 1
56) 2,4-Dinitrotoluene	15.52	165	14453	14.744	ng	# 18
58) 2,3,4,6-Tetrachlorophenol	16.13	232	3833	2.080	ng	# 99
61) 4-Nitroaniline	16.55	138	78	5.334	ng	# 12
64) 4,6-Dinitro-2-methylphenol	16.62	198	121	5.110	ng	# 1
66) 4-Bromophenyl-phenylether	17.00	248	21692	6.458	ng	# 1
69) Pentachlorophenol	17.89	266	20720	9.063	ng	# 98
76) Benzidine	20.77	184	28476	2.430	ng	# 93

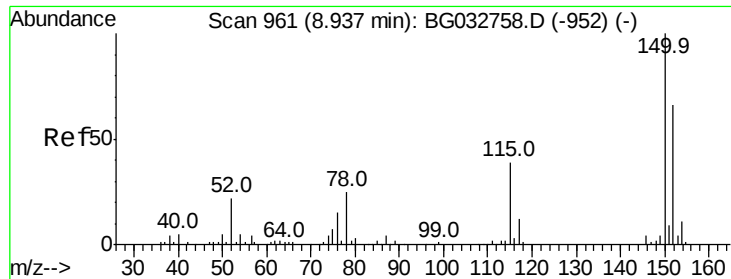
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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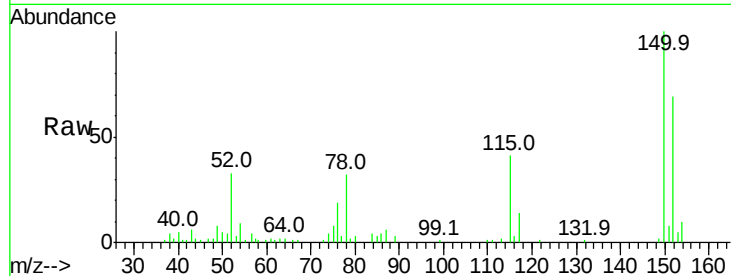


#1

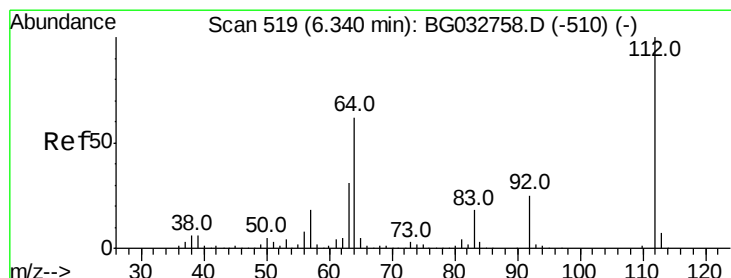
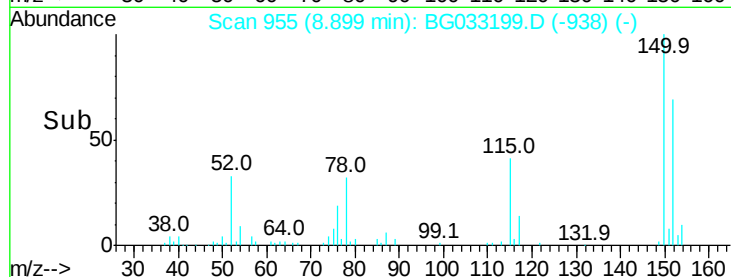
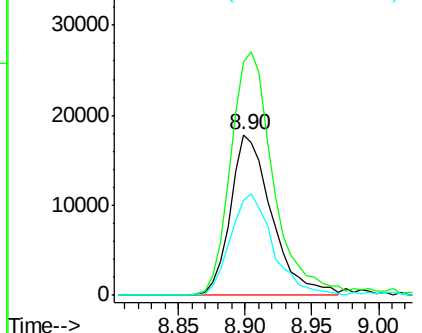
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.90 min Scan# 955
Delta R.T. 0.00 min
Lab File: BG033199.D
Acq: 16 Mar 2018 14:52

Instrument :
BNA_G
ClientSampleId :
OILY-SOIL-M8

Tot Ion:152 Resp: 38270
Ion Ratio Lower Upper
152 100
150 145.3 126.6 189.8
115 59.3 53.0 79.4



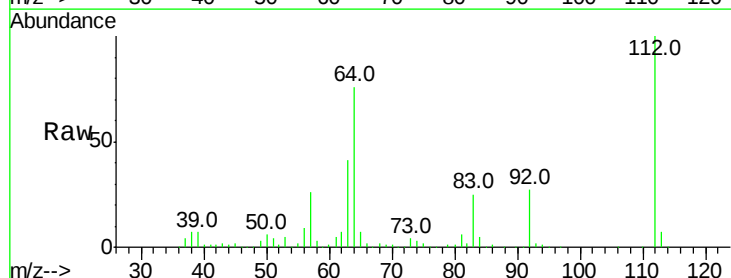
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



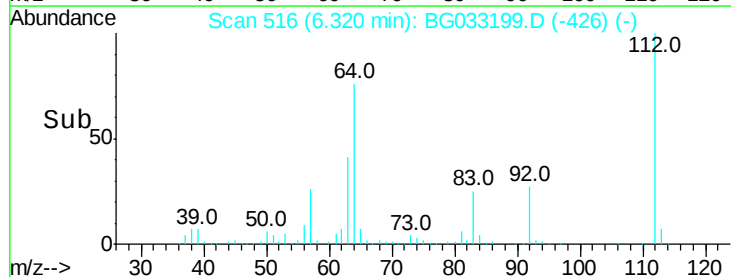
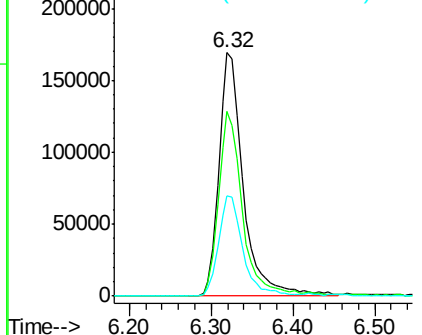
#5

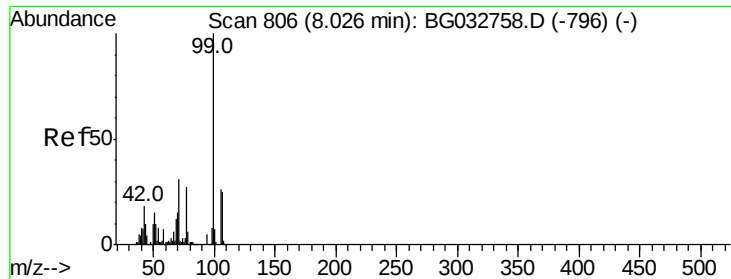
2-Fluorophenol
Concen: 147.013 ng
RT: 6.32 min Scan# 516
Delta R.T. 0.00 min
Lab File: BG033199.D
Acq: 16 Mar 2018 14:52

Tgt Ion:112 Resp: 351668
Ion Ratio Lower Upper
112 100
64 75.8 56.3 84.5
63 41.3 30.1 45.1



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BGC
Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 143.498 ng

RT: 8.01 min Scan# 803

Delta R.T. -0.00 min

Lab File: BG033199.D

Acq: 16 Mar 2018 14:52

Instrument :

BNA_G

ClientSampleId :

OILY-SOIL-M8

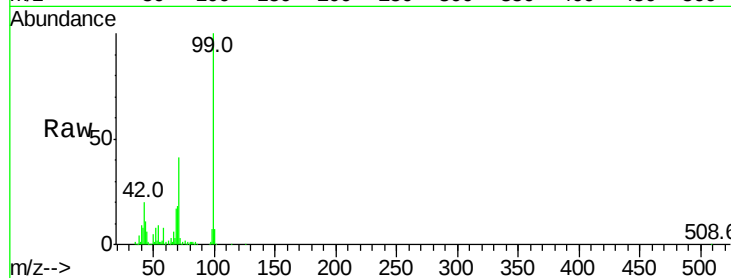
Tot Ion: 99 Resp: 478457

Ion Ratio Lower Upper

99 100

42 20.0 14.1 21.1

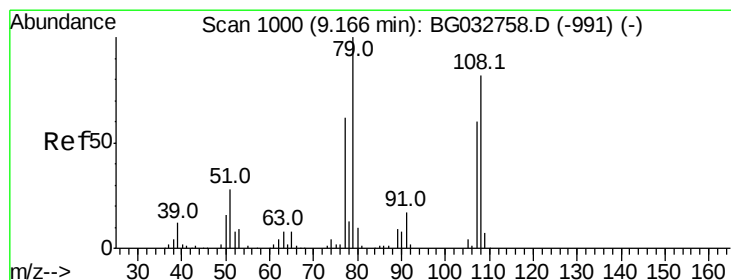
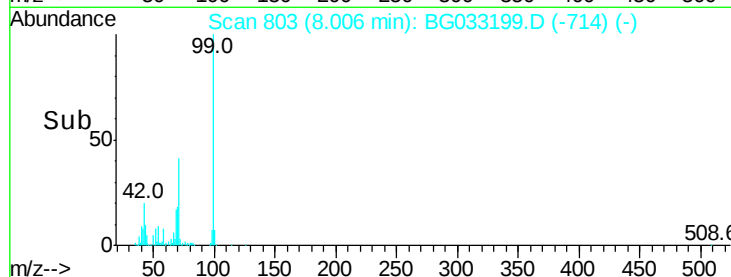
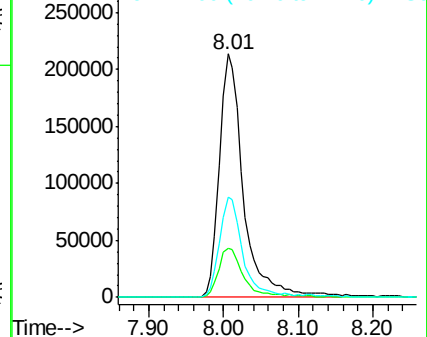
71 40.9 26.1 39.1#



Abundance Ion 99.00 (98.70 to 99.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 71.00 (70.70 to 71.70): BGC



#15

Benzyl Alcohol

Concen: 2.683 ng

RT: 9.23 min Scan# 1012

Delta R.T. 0.10 min

Lab File: BG033199.D

Acq: 16 Mar 2018 14:52

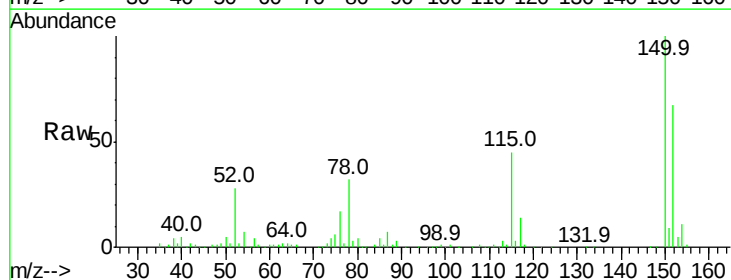
Tgt Ion: 79 Resp: 6577

Ion Ratio Lower Upper

79 100

108 28.9 57.2 85.8#

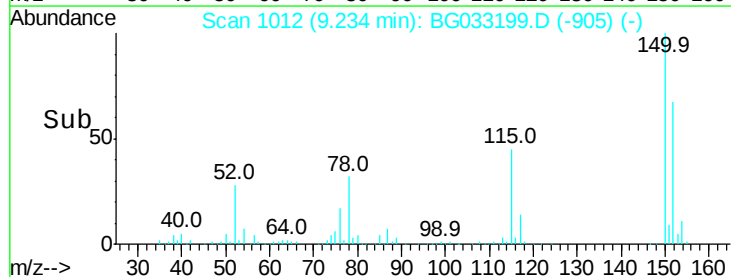
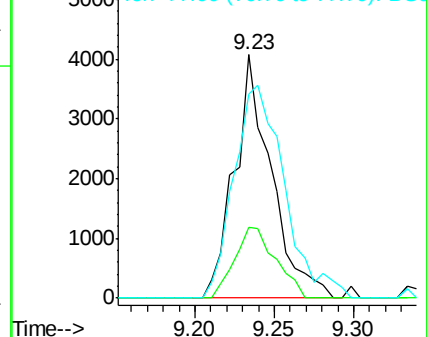
77 83.6 46.1 69.1#

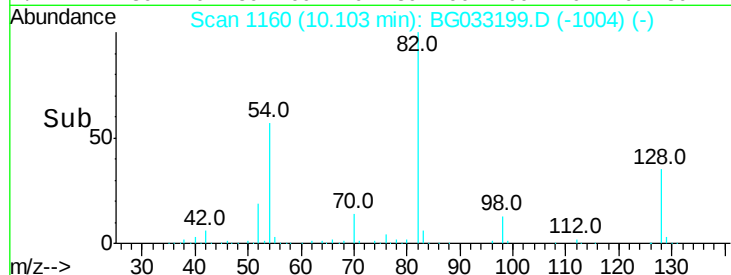
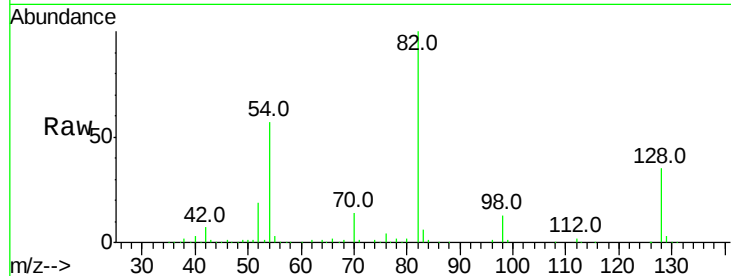
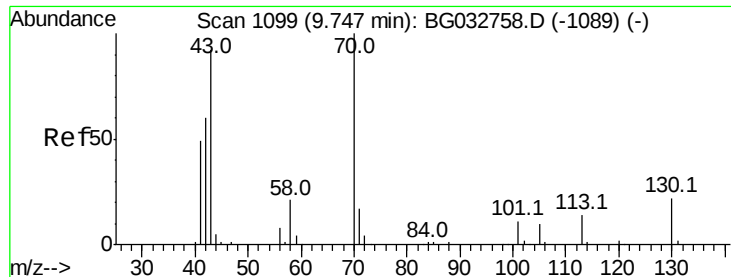


Abundance Ion 79.00 (78.70 to 79.70): BGC

Ion 108.00 (107.70 to 108.70): BGC

Ion 77.00 (76.70 to 77.70): BGC

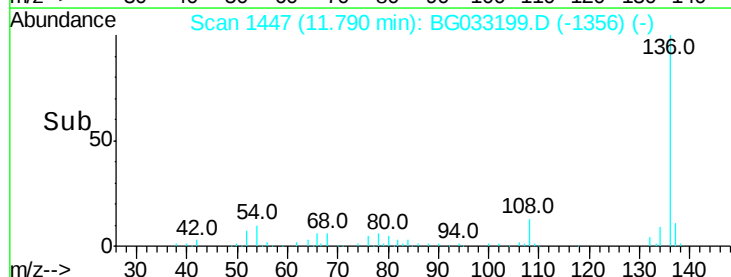
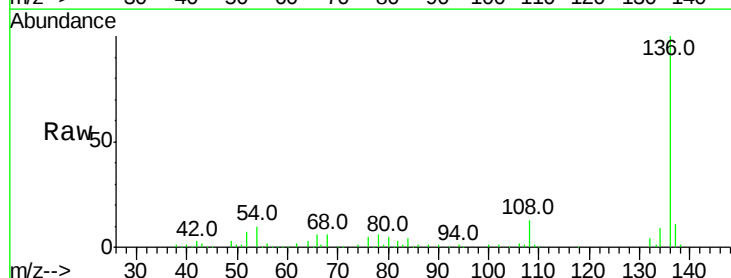
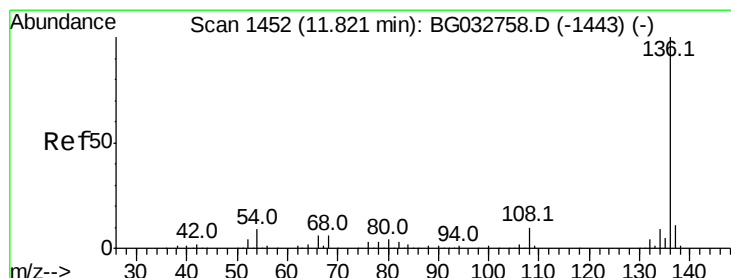
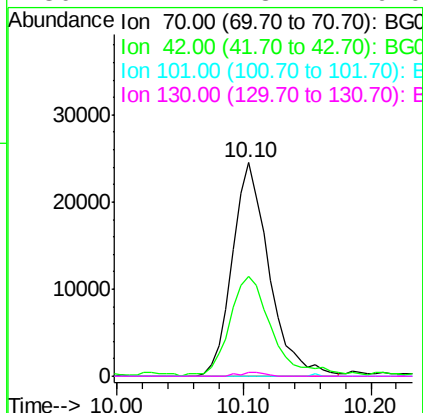




#19
n-Nitroso-di-n-propylamine
Concen: 20.950 ng
RT: 10.10 min Scan# 1160
Delta R.T. 0.39 min
Lab File: BG033199.D
Acq: 16 Mar 2018 14:52

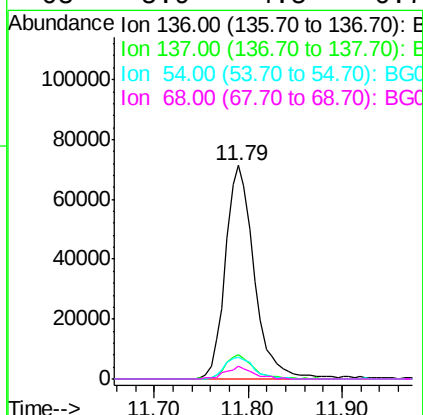
Instrument :
BNA_G
ClientSampleId :
OILY-SOIL-M8

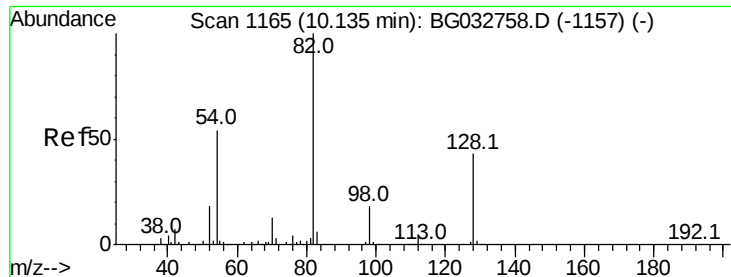
Tot Ion: 70 Resp: 49315
Ion Ratio Lower Upper
70 100
42 47.0 49.1 73.7#
101 0.0 8.5 12.7#
130 1.7 13.4 20.0#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.79 min Scan# 1447
Delta R.T. 0.00 min
Lab File: BG033199.D
Acq: 16 Mar 2018 14:52

Tgt Ion:136 Resp: 151887
Ion Ratio Lower Upper
136 100
137 11.5 9.2 13.8
54 10.2 10.3 15.5#
68 5.9 4.5 6.7





#23

Nitrobenzene-d5

Concen: 160.420 ng

RT: 10.10 min Scan# 1160

Delta R.T. 0.00 min

Lab File: BG033199.D

Acq: 16 Mar 2018 14:52

Instrument :

BNA_G

ClientSampleId :

OILY-SOIL-M8

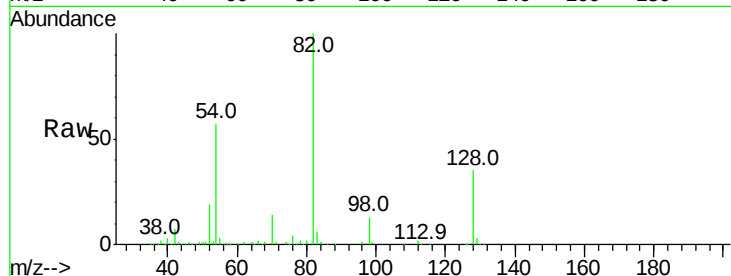
Tot Ion: 82 Resp: 372909

Ion Ratio Lower Upper

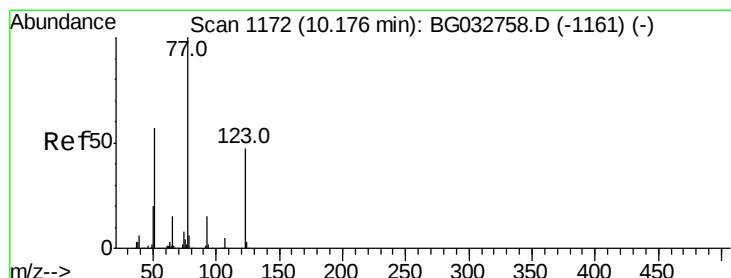
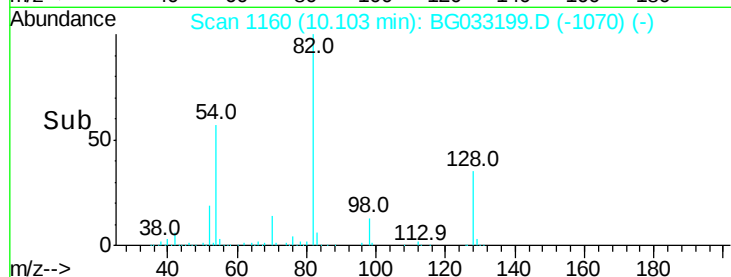
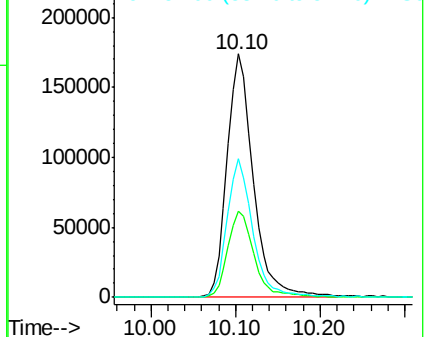
82 100

128 35.3 29.7 44.5

54 56.9 43.1 64.7



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



#24

Nitrobenzene

Concen: 6.406 ng

RT: 10.17 min Scan# 1171

Delta R.T. 0.03 min

Lab File: BG033199.D

Acq: 16 Mar 2018 14:52

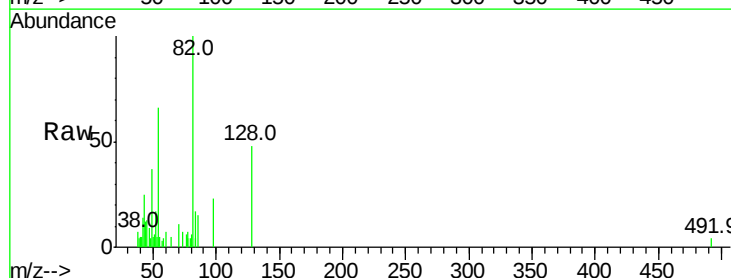
Tgt Ion: 77 Resp: 73

Ion Ratio Lower Upper

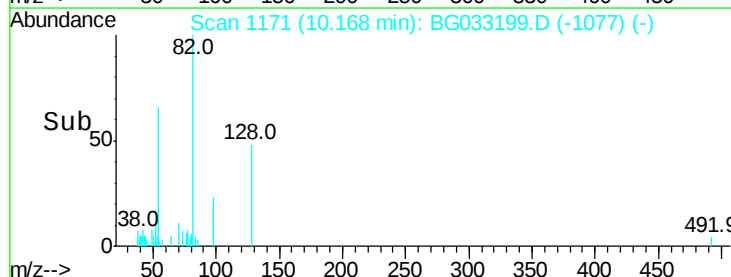
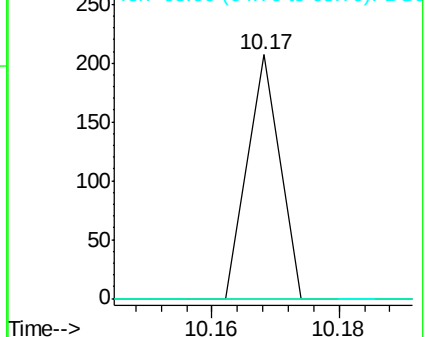
77 100

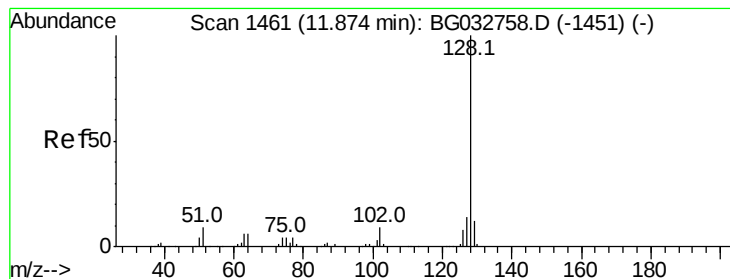
123 0.0 33.0 49.6#

65 0.0 13.0 19.6#



Abundance Ion 77.00 (76.70 to 77.70): BGC
Ion 123.00 (122.70 to 123.70): BGC
Ion 65.00 (64.70 to 65.70): BGC





#31

Naphthalene

Concen: 3.238 ng

RT: 11.84 min Scan# 1456

Delta R.T. 0.00 min

Lab File: BG033199.D

Acq: 16 Mar 2018 14:52

Instrument :

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ClientSampleId :

OILY-SOIL-M8

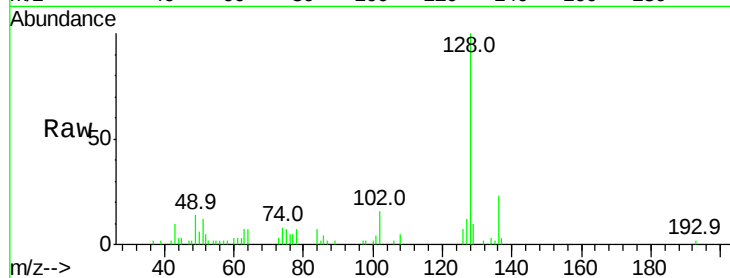
Tot Ion:128 Resp: 25701

Ion Ratio Lower Upper

128 100

129 10.0 8.6 12.8

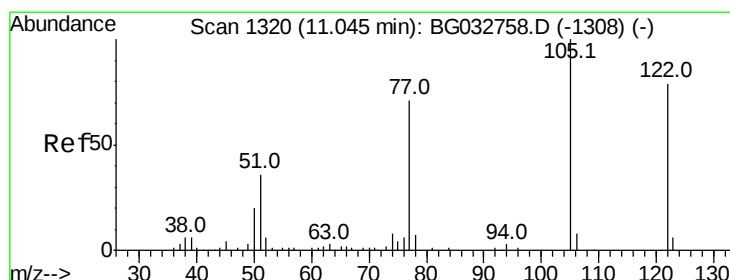
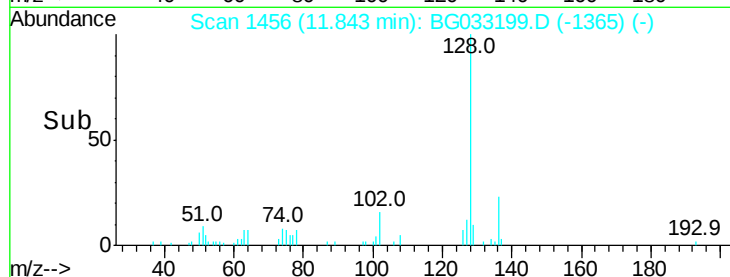
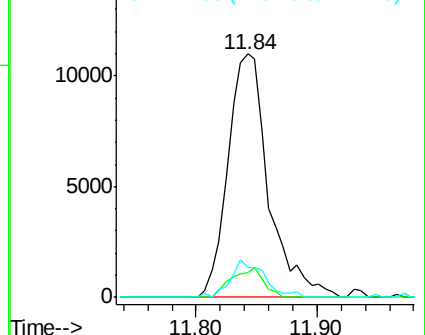
127 12.1 11.6 17.4



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#32

Benzoic acid

Concen: 5.888 ng

RT: 11.46 min Scan# 1391

Delta R.T. 0.49 min

Lab File: BG033199.D

Acq: 16 Mar 2018 14:52

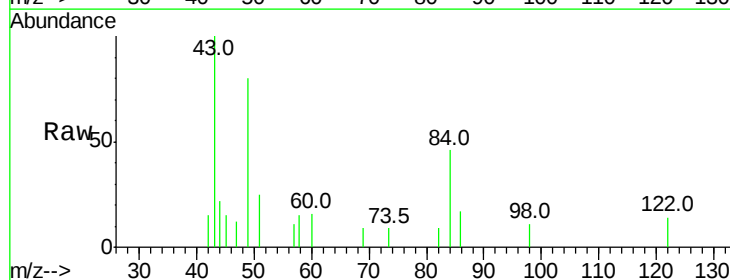
Tgt Ion:122 Resp: 87

Ion Ratio Lower Upper

122 100

105 0.0 123.5 163.5#

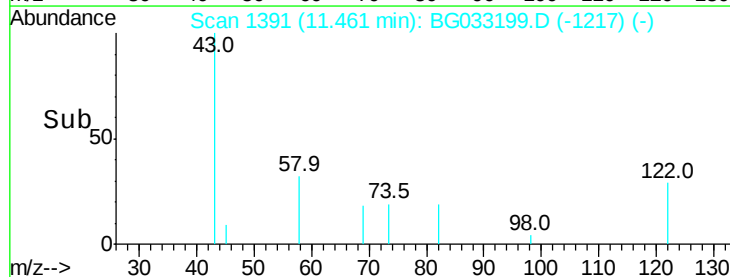
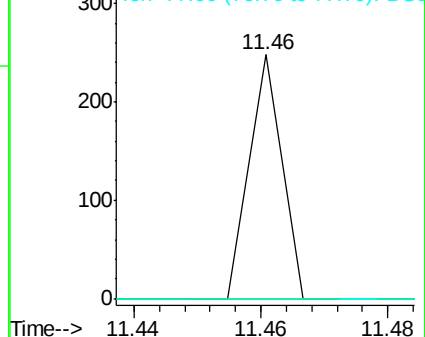
77 0.0 85.7 125.7#

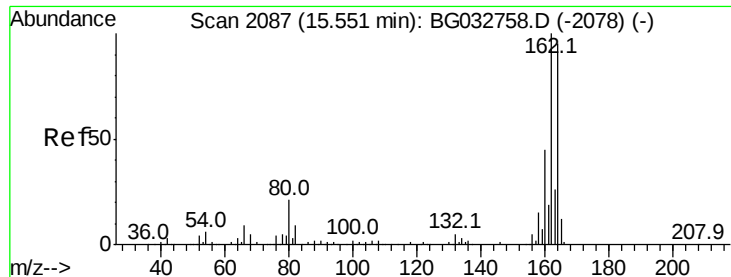


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BGC





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 15.52 min Scan# 2082

Delta R.T. 0.00 min

Lab File: BG033199.D

Acq: 16 Mar 2018 14:52

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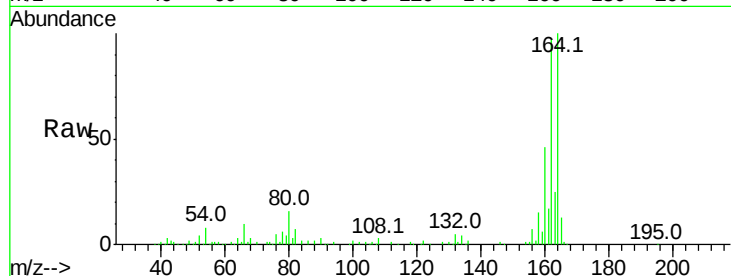
Tot Ion:164 Resp: 109548

Ion Ratio Lower Upper

164 100

162 96.5 78.8 118.2

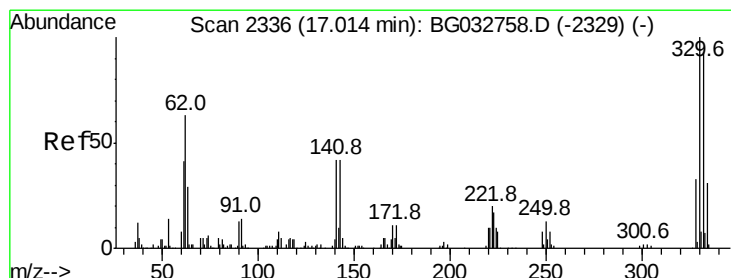
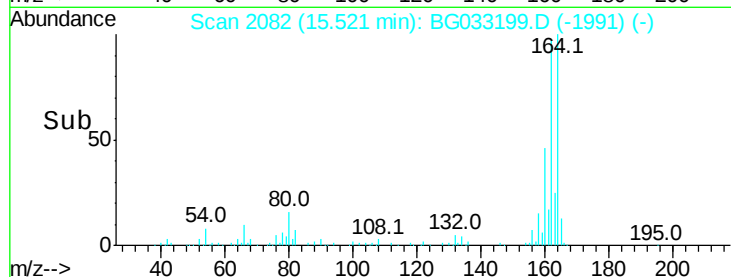
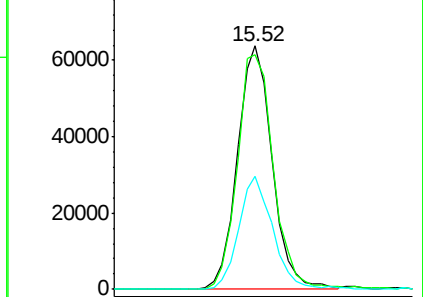
160 46.5 35.4 53.0



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: 247.774 ng

RT: 17.00 min Scan# 2333

Delta R.T. 0.00 min

Lab File: BG033199.D

Acq: 16 Mar 2018 14:52

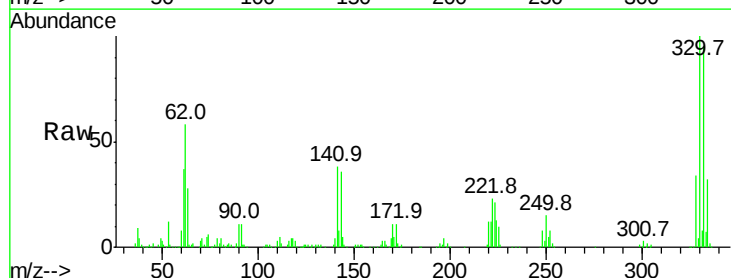
Tgt Ion:330 Resp: 285401

Ion Ratio Lower Upper

330 100

332 94.7 77.0 115.6

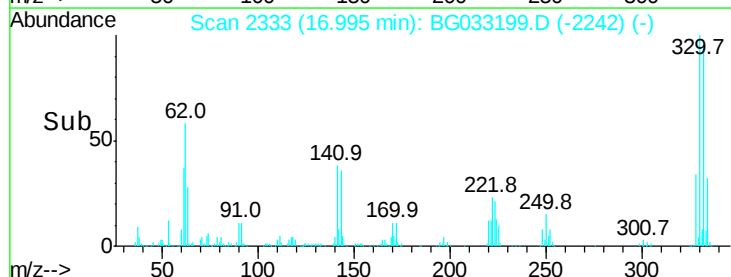
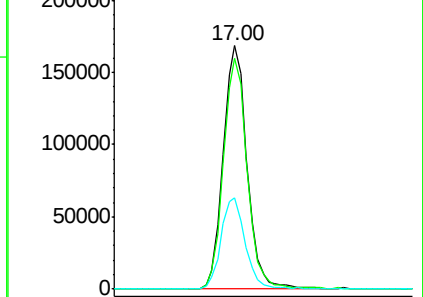
141 38.0 25.2 37.8#

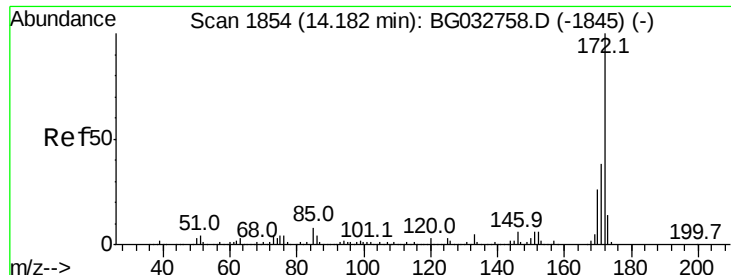


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

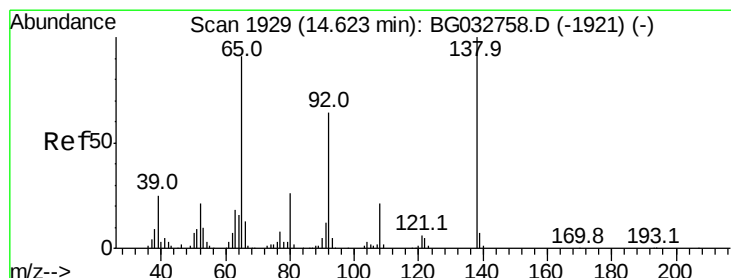
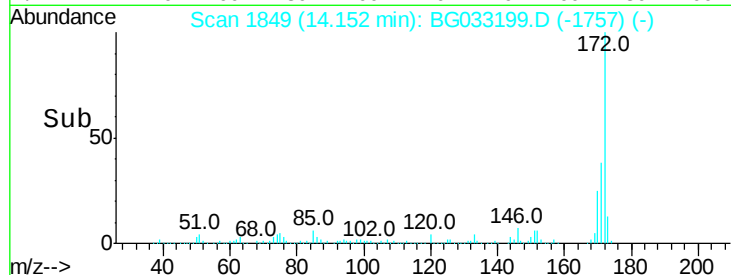
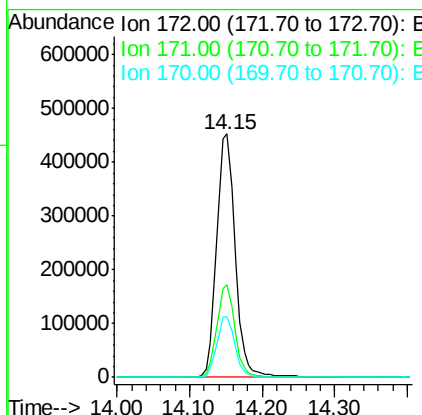
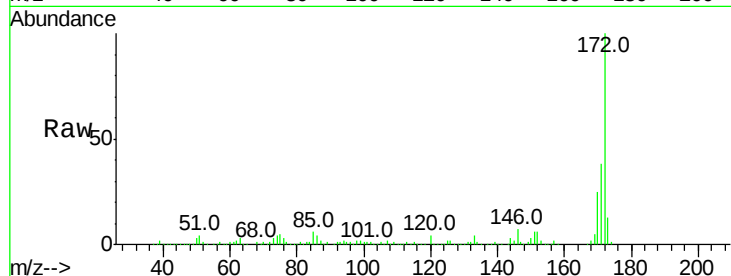




#44
 2-Fluorobiphenyl
 Concen: 106.592 ng
 RT: 14.15 min Scan# 1849
 Delta R.T. 0.01 min
 Lab File: BG033199.D
 Acq: 16 Mar 2018 14:52

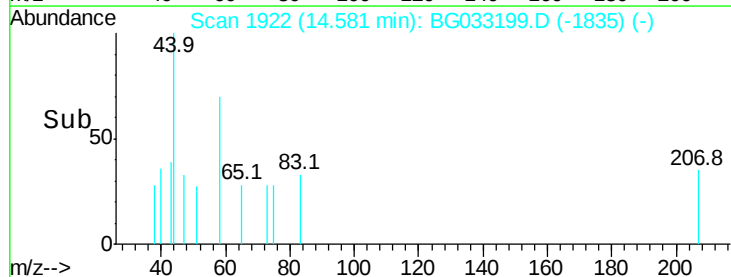
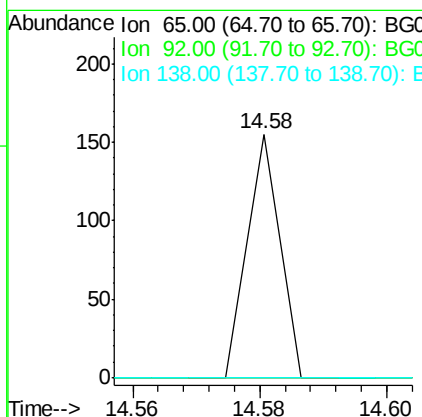
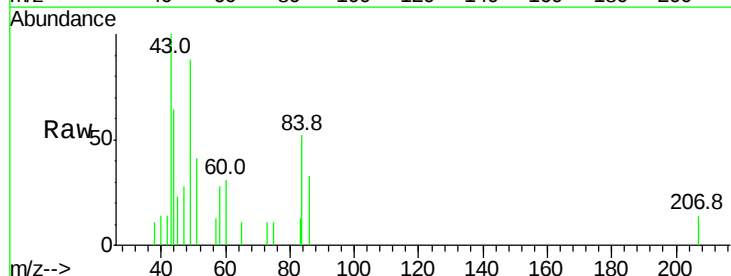
Instrument :
 BNA_G
 ClientSampleId :
 OILY-SOIL-M8

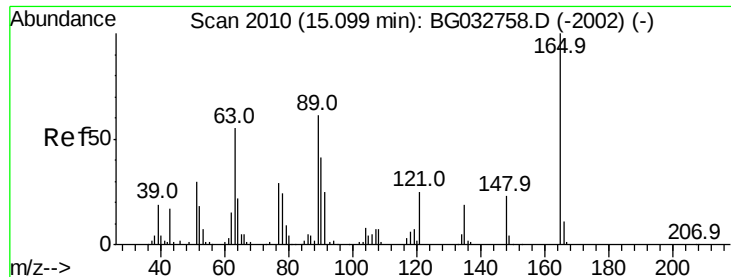
Tot Ion:172 Resp: 809635
 Ion Ratio Lower Upper
 172 100
 171 37.8 30.0 45.0
 170 24.7 19.5 29.3



#47
 2-Nitroaniline
 Concen: 9.860 ng
 RT: 14.58 min Scan# 1922
 Delta R.T. -0.02 min
 Lab File: BG033199.D
 Acq: 16 Mar 2018 14:52

Tgt Ion: 65 Resp: 55
 Ion Ratio Lower Upper
 65 100
 92 0.0 54.6 82.0#
 138 0.0 72.9 109.3#

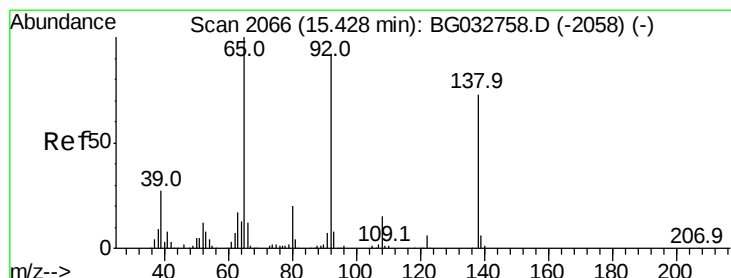
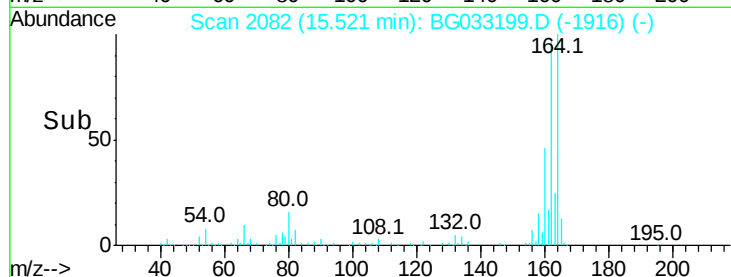
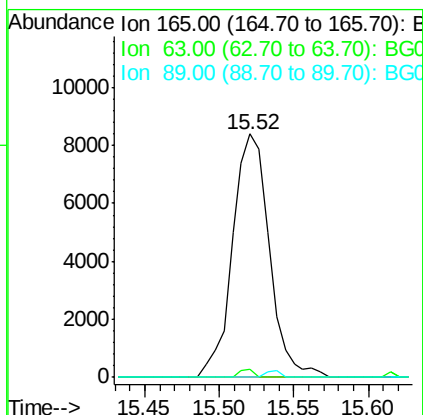
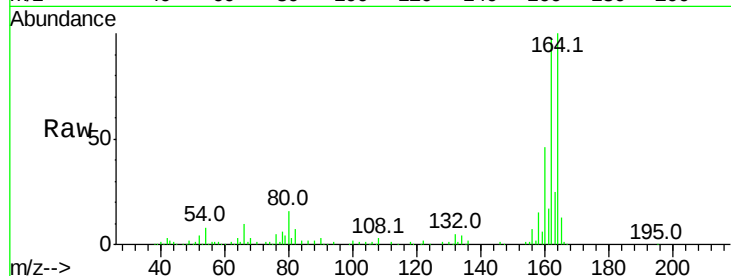




#50
 2,6-Dinitrotoluene
 Concen: 16.546 ng
 RT: 15.52 min Scan# 2082
 Delta R.T. 0.44 min
 Lab File: BG033199.D
 Acq: 16 Mar 2018 14:52

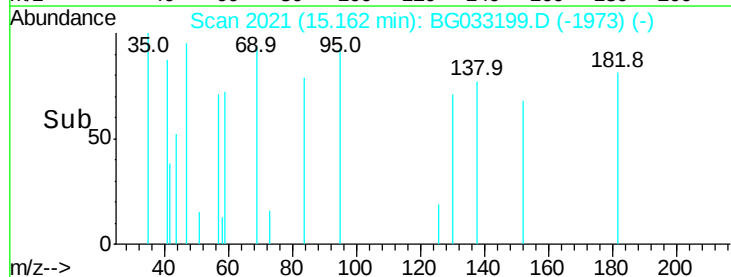
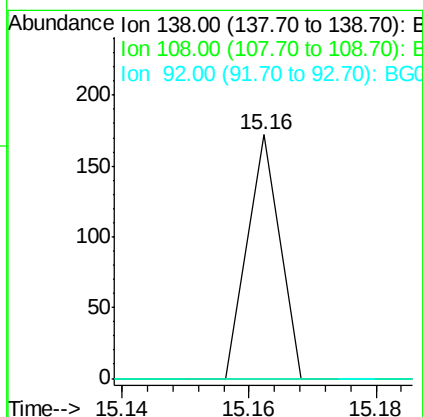
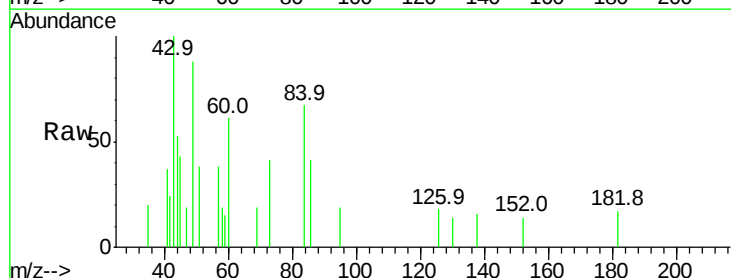
Instrument :
 BNA_G
 ClientSampleId :
 OILY-SOIL-M8

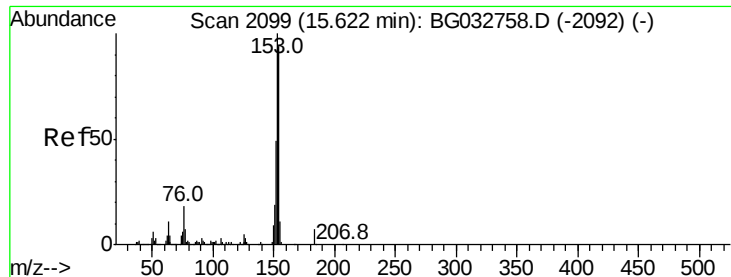
Tot Ion:165 Resp: 14453
 Ion Ratio Lower Upper
 165 100
 63 3.3 52.7 79.1#
 89 0.0 49.2 73.8#



#52
 3-Nitroaniline
 Concen: 7.570 ng
 RT: 15.16 min Scan# 2021
 Delta R.T. -0.25 min
 Lab File: BG033199.D
 Acq: 16 Mar 2018 14:52

Tgt Ion:138 Resp: 61
 Ion Ratio Lower Upper
 138 100
 108 0.0 17.5 26.3#
 92 0.0 105.8 158.8#

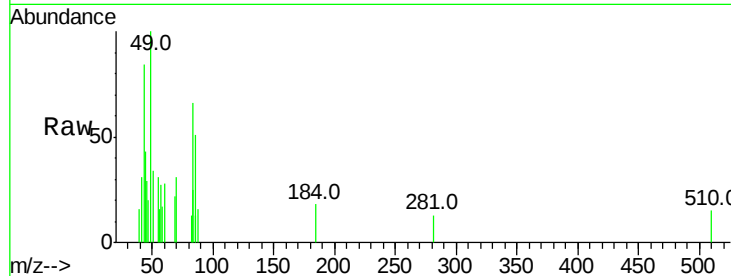




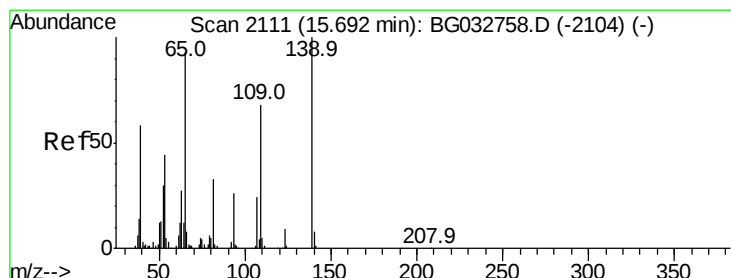
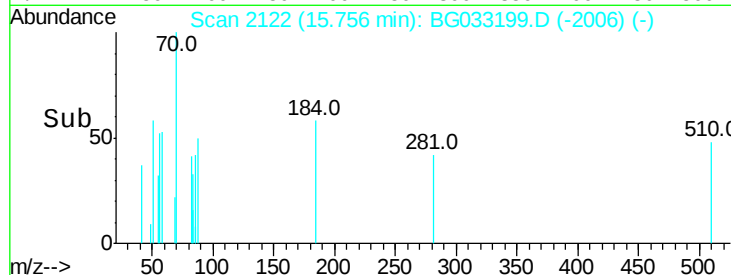
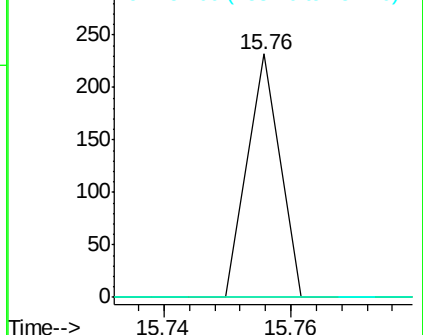
#53
2,4-Dinitrophenol
Concen: 3.631 ng
RT: 15.76 min Scan# 2122
Delta R.T. 0.15 min
Lab File: BG033199.D
Acq: 16 Mar 2018 14:52

Instrument :
BNA_G
ClientSampleId :
OILY-SOIL-M8

Tot Ion:184 Resp: 82
Ion Ratio Lower Upper
184 100
63 0.0 59.8 89.8#
154 0.0 101.8 152.8#

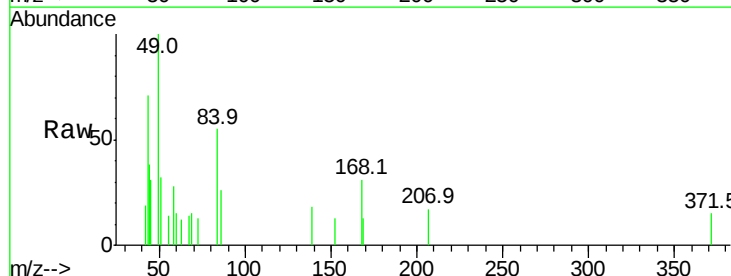


Abundance Ion 184.00 (183.70 to 184.70): E
Ion 63.00 (62.70 to 63.70): BGC
Ion 154.00 (153.70 to 154.70): E

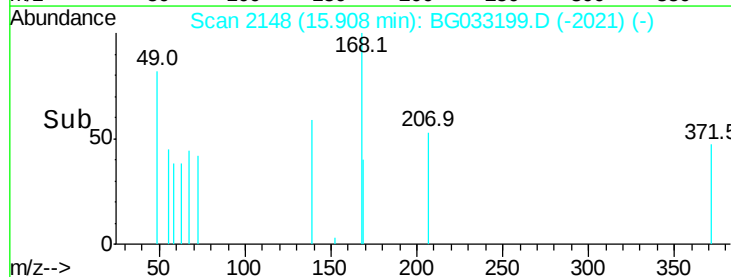
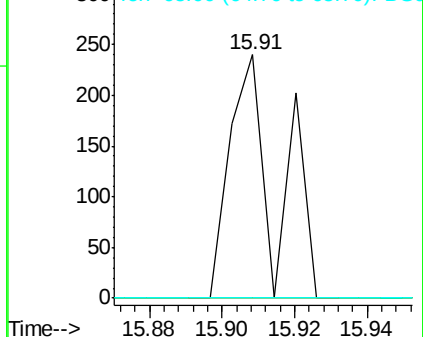


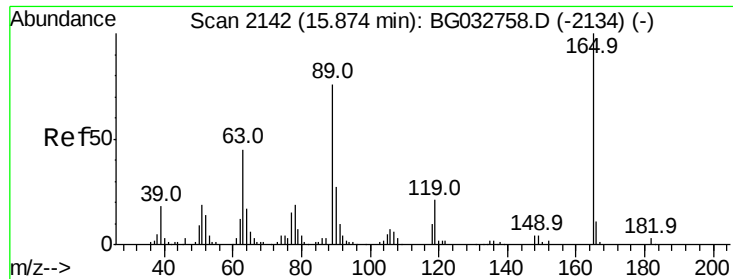
#55
4-Nitrophenol
Concen: 7.210 ng
RT: 15.91 min Scan# 2148
Delta R.T. 0.21 min
Lab File: BG033199.D
Acq: 16 Mar 2018 14:52

Tgt Ion:139 Resp: 217
Ion Ratio Lower Upper
139 100
109 0.0 62.2 102.2#
65 0.0 97.2 137.2#



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): BGC

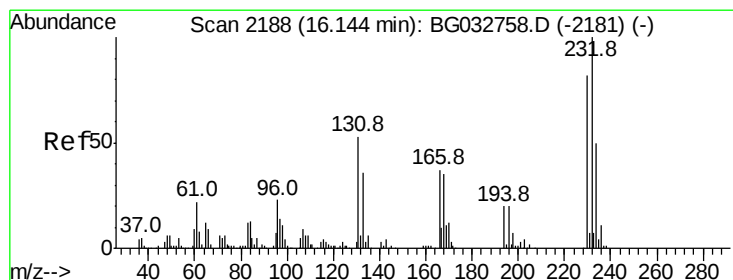
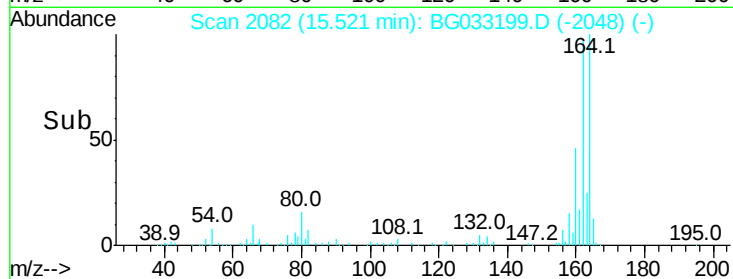
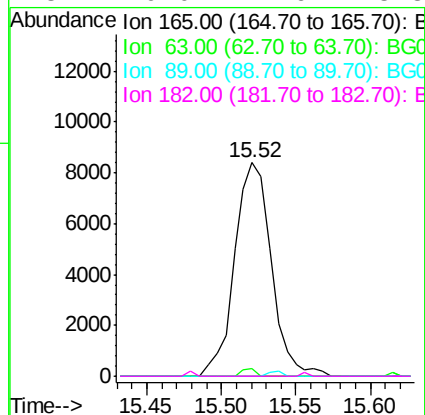
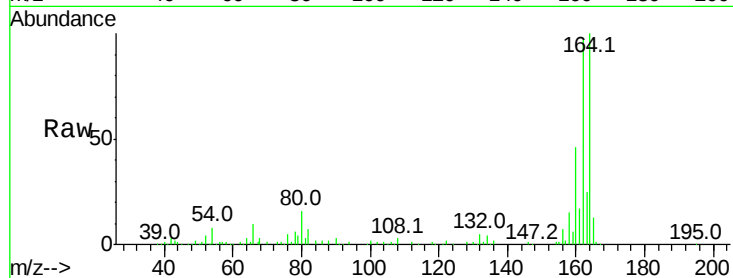




#56
 2,4-Dinitrotoluene
 Concen: 14.744 ng
 RT: 15.52 min Scan# 2082
 Delta R.T. -0.33 min
 Lab File: BG033199.D
 Acq: 16 Mar 2018 14:52

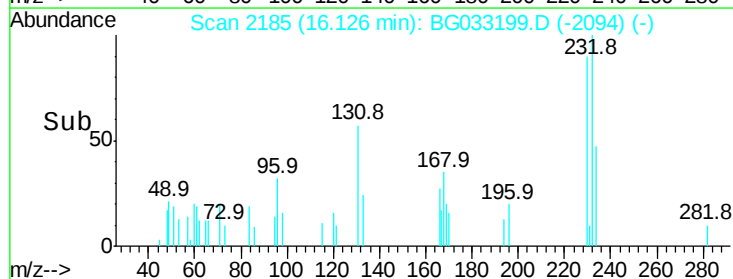
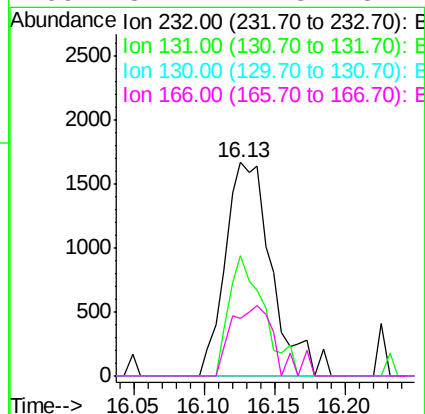
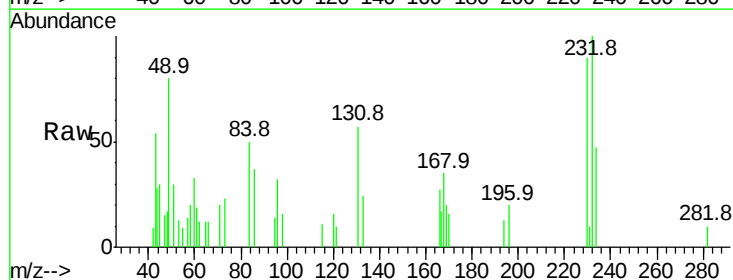
Instrument :
 BNA_G
 ClientSampleId :
 OILY-SOIL-M8

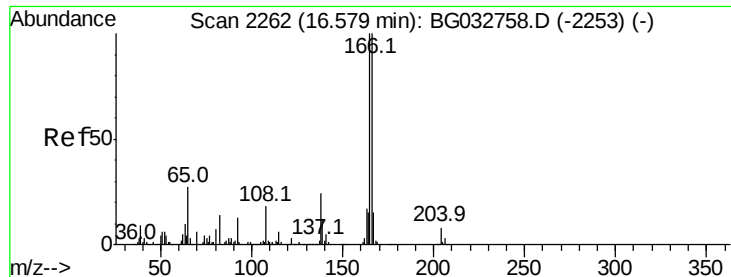
Tot Ion:165 Resp: 14453
 Ion Ratio Lower Upper
 165 100
 63 3.3 42.0 63.0#
 89 0.0 66.9 100.3#
 182 0.0 2.6 3.8#



#58
 2,3,4,6-Tetrachlorophenol
 Concen: 2.080 ng
 RT: 16.13 min Scan# 2185
 Delta R.T. 0.00 min
 Lab File: BG033199.D
 Acq: 16 Mar 2018 14:52

Tgt Ion:232 Resp: 3833
 Ion Ratio Lower Upper
 232 100
 131 42.3 33.5 50.3
 130 0.0 2.2 3.2#
 166 31.1 24.8 37.2





#61

4-Nitroaniline

Concen: 5.334 ng

RT: 16.55 min Scan# 2258

Delta R.T. -0.01 min

Lab File: BG033199.D

Acq: 16 Mar 2018 14:52

Instrument :

BNA_G

ClientSampleId :

OILY-SOIL-M8

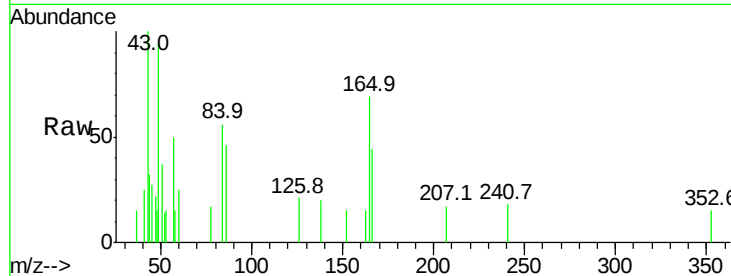
Tot Ion:138 Resp: 78

Ion Ratio Lower Upper

138 100

92 0.0 40.1 80.1#

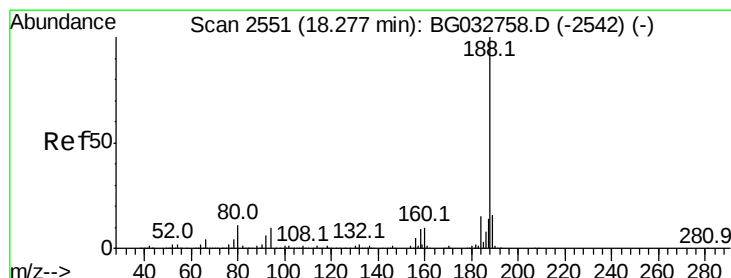
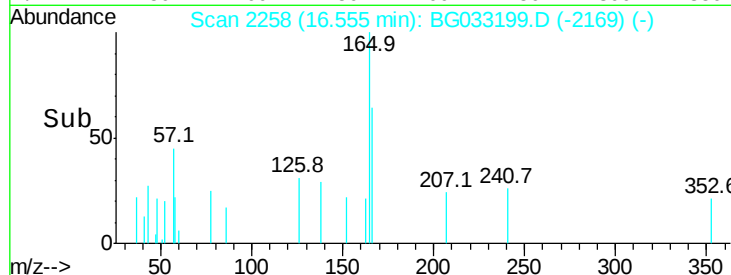
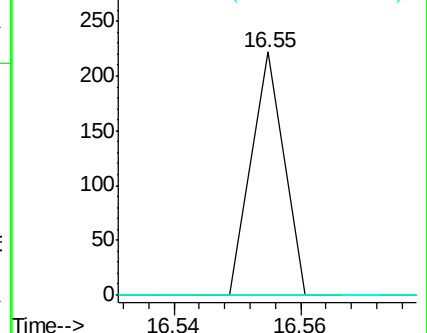
108 0.0 65.4 105.4#



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BGC

Ion 108.00 (107.70 to 108.70): E



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 18.25 min Scan# 2547

Delta R.T. 0.00 min

Lab File: BG033199.D

Acq: 16 Mar 2018 14:52

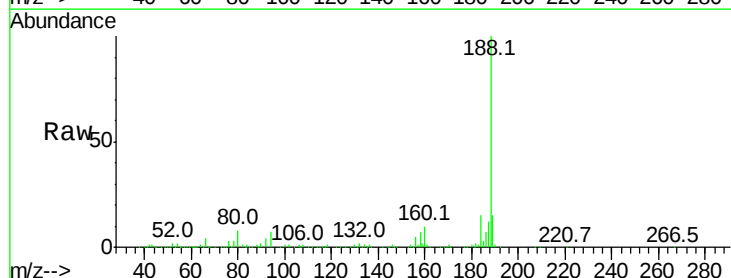
Tgt Ion:188 Resp: 317642

Ion Ratio Lower Upper

188 100

94 6.6 6.9 10.3#

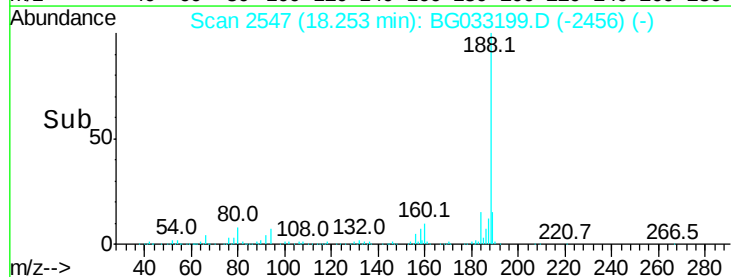
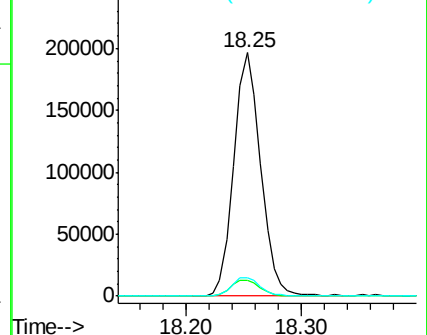
80 7.7 7.7 11.5

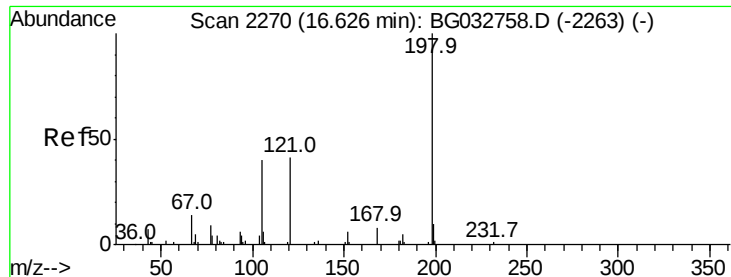


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC

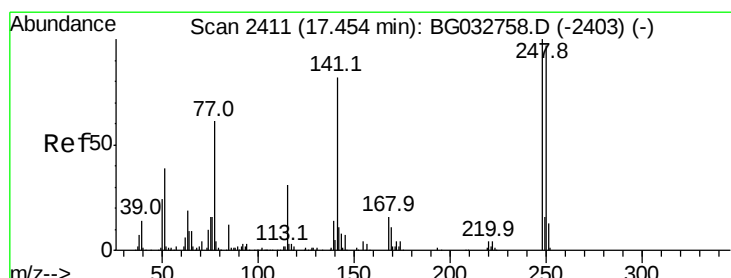
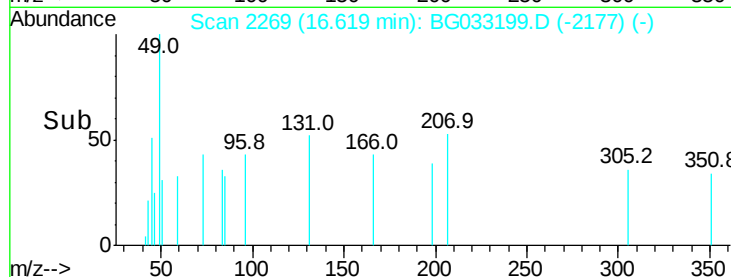
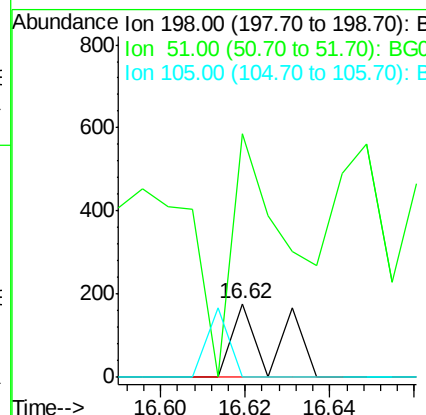
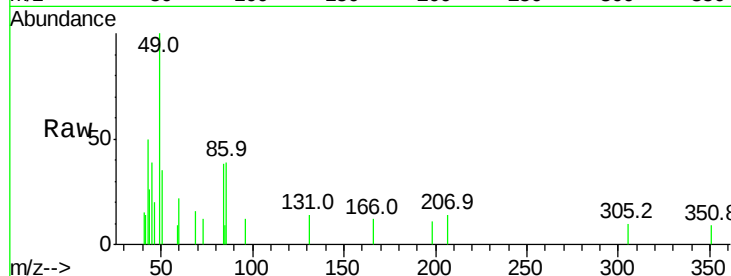




#64
4,6-Dinitro-2-methylphenol
Concen: 5.110 ng
RT: 16.62 min Scan# 2269
Delta R.T. 0.01 min
Lab File: BG033199.D
Acq: 16 Mar 2018 14:52

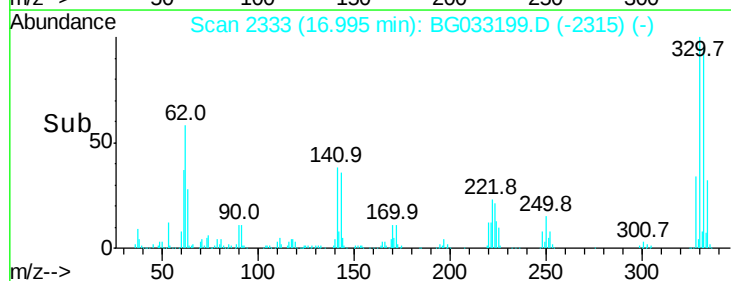
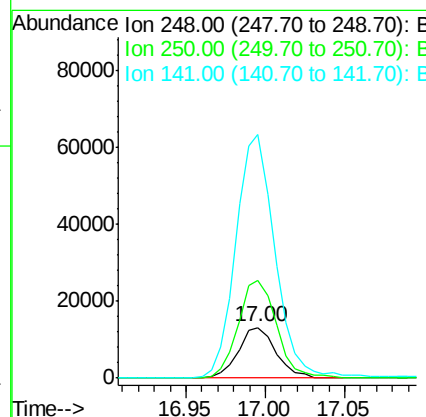
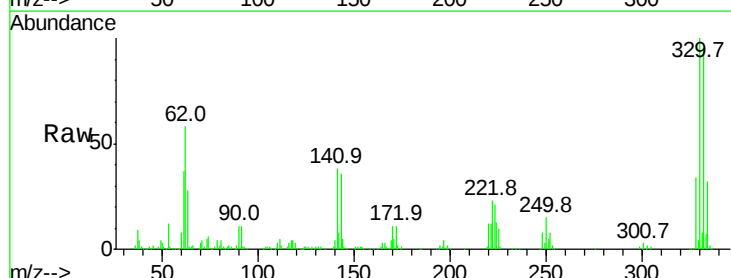
Instrument :
BNA_G
ClientSampleId :
OILY-SOIL-M8

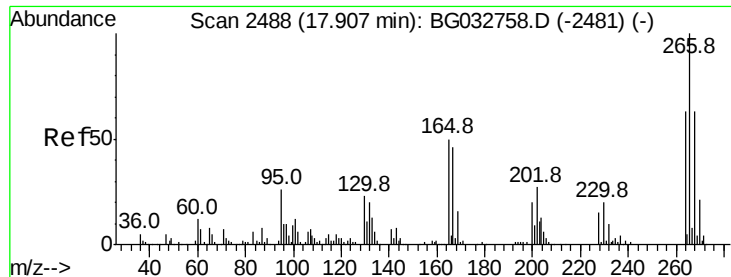
Tot Ion:198 Resp: 121
Ion Ratio Lower Upper
198 100
51 331.1 30.6 70.6#
105 0.0 23.8 63.8#



#66
4-Bromophenyl-phenylether
Concen: 6.458 ng
RT: 17.00 min Scan# 2333
Delta R.T. -0.43 min
Lab File: BG033199.D
Acq: 16 Mar 2018 14:52

Tgt Ion:248 Resp: 21692
Ion Ratio Lower Upper
248 100
250 193.4 77.1 115.7#
141 483.3 50.8 76.2#

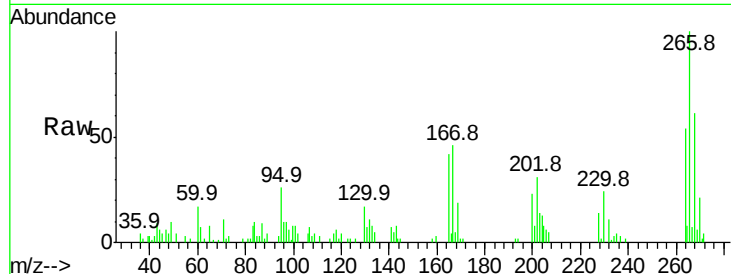




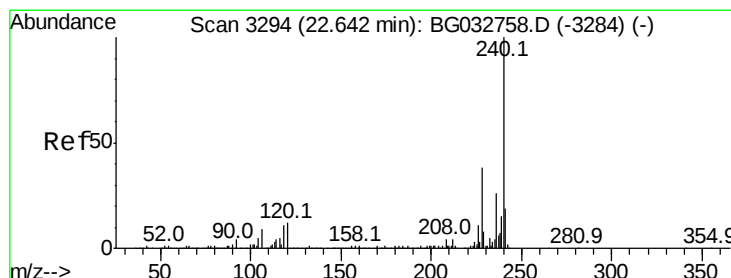
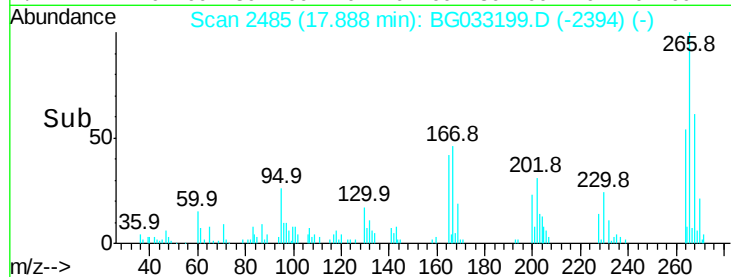
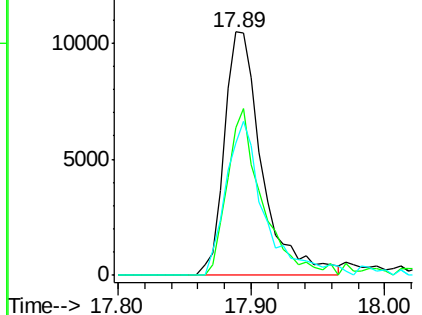
#69
 Pentachlorophenol
 Concen: 9.063 ng
 RT: 17.89 min Scan# 2485
 Delta R.T. 0.00 min
 Lab File: BG033199.D
 Acq: 16 Mar 2018 14:52

Instrument :
 BNA_G
 ClientSampleId :
 OILY-SOIL-M8

Tot Ion	Ratio	Lower	Upper
266	100		
268	60.7	51.1	76.7
264	62.4	49.6	74.4

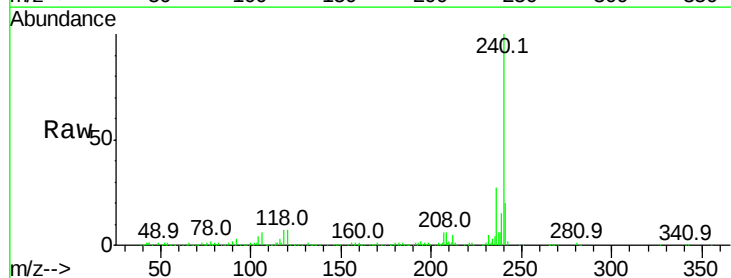


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

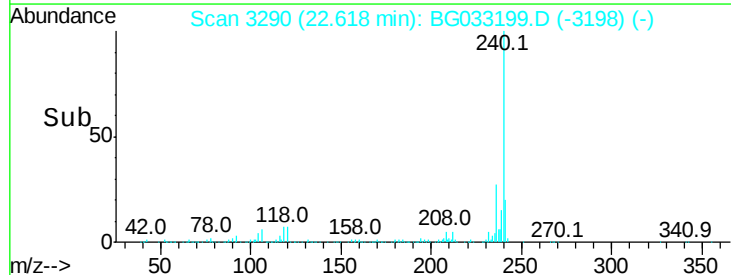
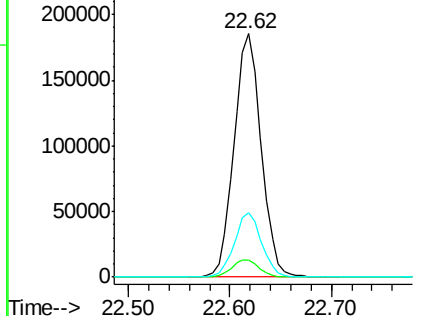


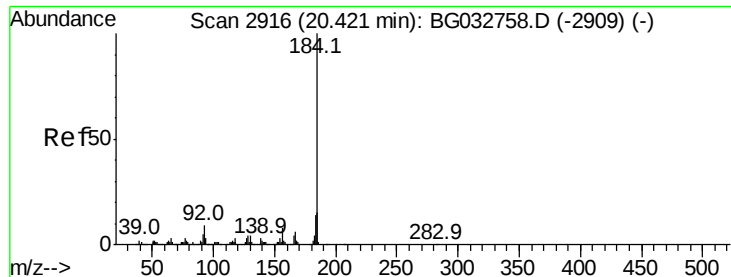
#75
 Chrysene-d12
 Concen: 20.000 ng
 RT: 22.62 min Scan# 3290
 Delta R.T. 0.01 min
 Lab File: BG033199.D
 Acq: 16 Mar 2018 14:52

Tgt Ion	Ratio	Lower	Upper
240	100		
120	6.9	6.8	10.2
236	26.7	20.9	31.3



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: 2.430 ng

RT: 20.77 min Scan# 2976

Delta R.T. 0.37 min

Lab File: BG033199.D

Acq: 16 Mar 2018 14:52

Instrument :

BNA_G

ClientSampleId :

OILY-SOIL-M8

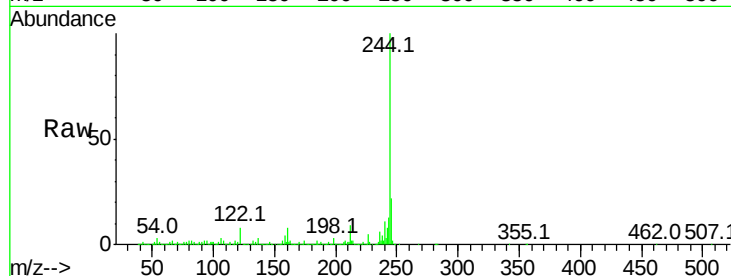
Tot Ion:184 Resp: 28476

Ion Ratio Lower Upper

184 100

185 17.6 11.1 16.7#

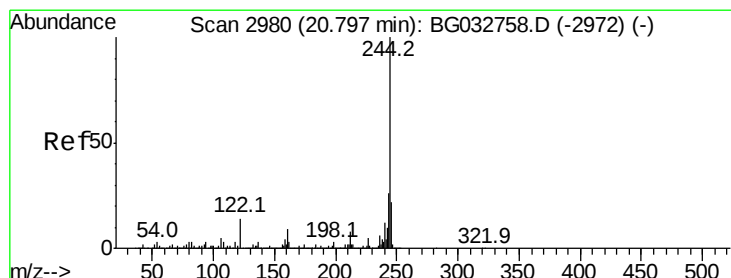
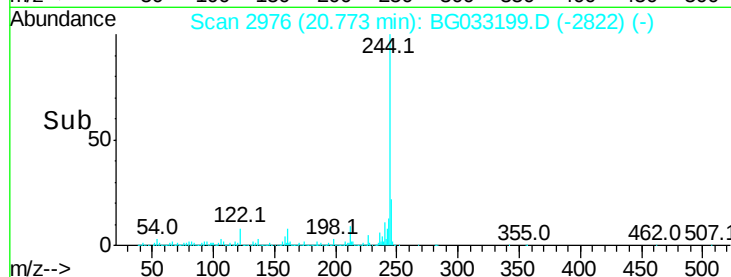
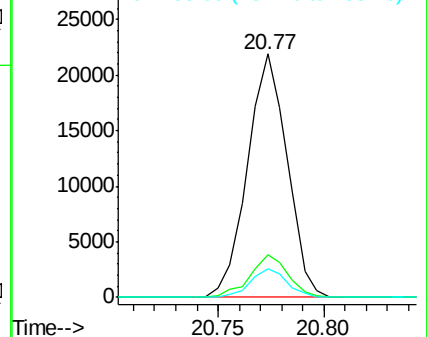
183 11.7 10.6 16.0



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: 110.763 ng

RT: 20.77 min Scan# 2976

Delta R.T. 0.01 min

Lab File: BG033199.D

Acq: 16 Mar 2018 14:52

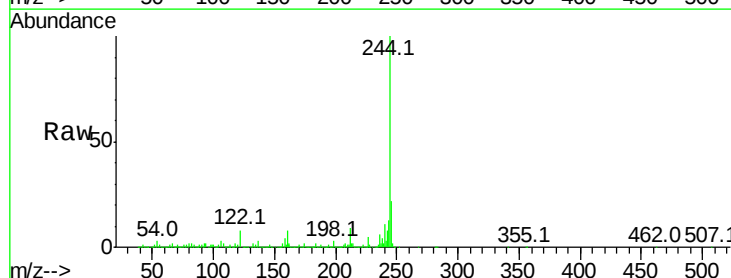
Tgt Ion:244 Resp: 1694828

Ion Ratio Lower Upper

244 100

212 9.3 5.8 8.8#

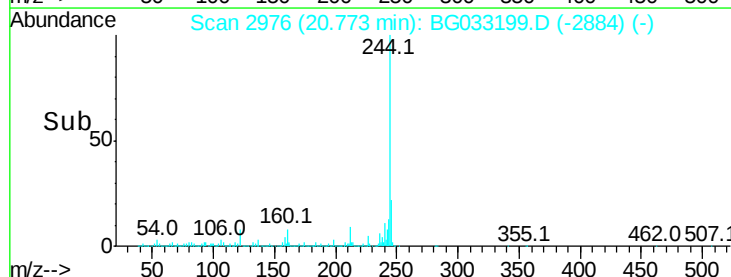
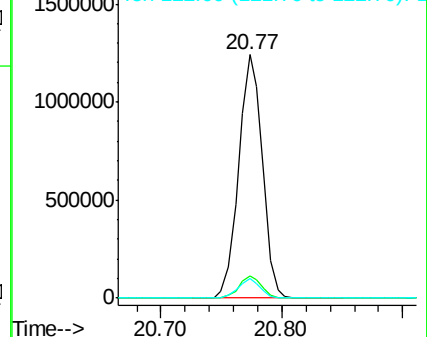
122 7.9 7.0 10.4

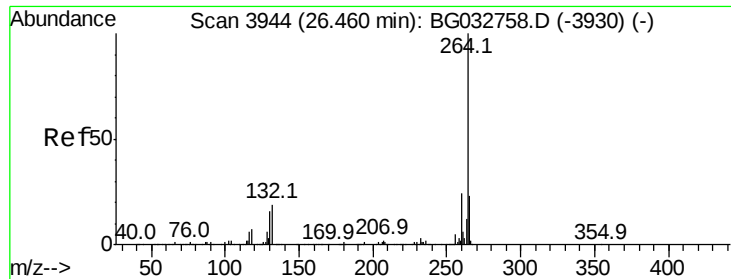


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

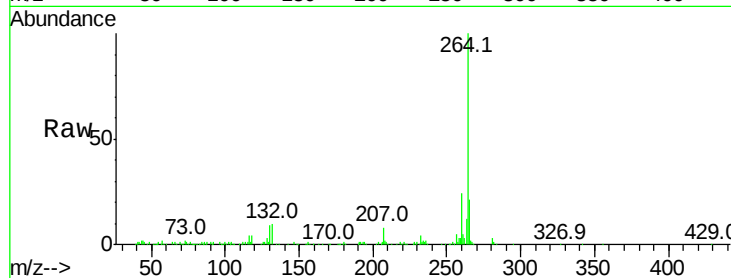




#86
 Pervlene-d12
 Concen: 20.000 ng
 RT: 26.44 min Scan# 3941
 Delta R.T. 0.03 min
 Lab File: BG033199.D
 Acq: 16 Mar 2018 14:52

Instrument :
 BNA_G
 ClientSampleId :
 OILY-SOIL-M8

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.6	17.4	26.0
265	20.6	17.7	26.5



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

