

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122617\
 Data File : BG031758.D
 Acq On : 26 Dec 2017 12:52
 Operator : SJ/JU
 Sample : I7037-02
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 VNJ-221-OILY-STONES

Quant Time: Dec 26 13:30:41 2017
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG122117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 22 11:08:55 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.81	152	52880	20.00	ng	-0.03
21) Naphthalene-d8	11.70	136	206511	20.00	ng	-0.03
38) Acenaphthene-d10	15.44	164	134534	20.00	ng	-0.03
63) Phenanthrene-d10	18.17	188	353176	20.00	ng	-0.03
75) Chrysene-d12	22.51	240	430167	20.00	ng	-0.06
86) Perylene-d12	26.27	264	453478	20.00	ng	-0.09

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	6.23	112	422263	145.44	ng	-0.02
7) Phenol-d6	7.91	99	471445	125.07	ng	-0.02
23) Nitrobenzene-d5	10.01	82	306279	111.99	ng	-0.03
41) 2,4,6-Tribromophenol	16.91	330	380274	185.25	ng	-0.03
44) 2-Fluorobiphenyl	14.07	172	1080561	100.81	ng	-0.03
78) Terphenyl-d14	20.70	244	2053567	109.07	ng	-0.03

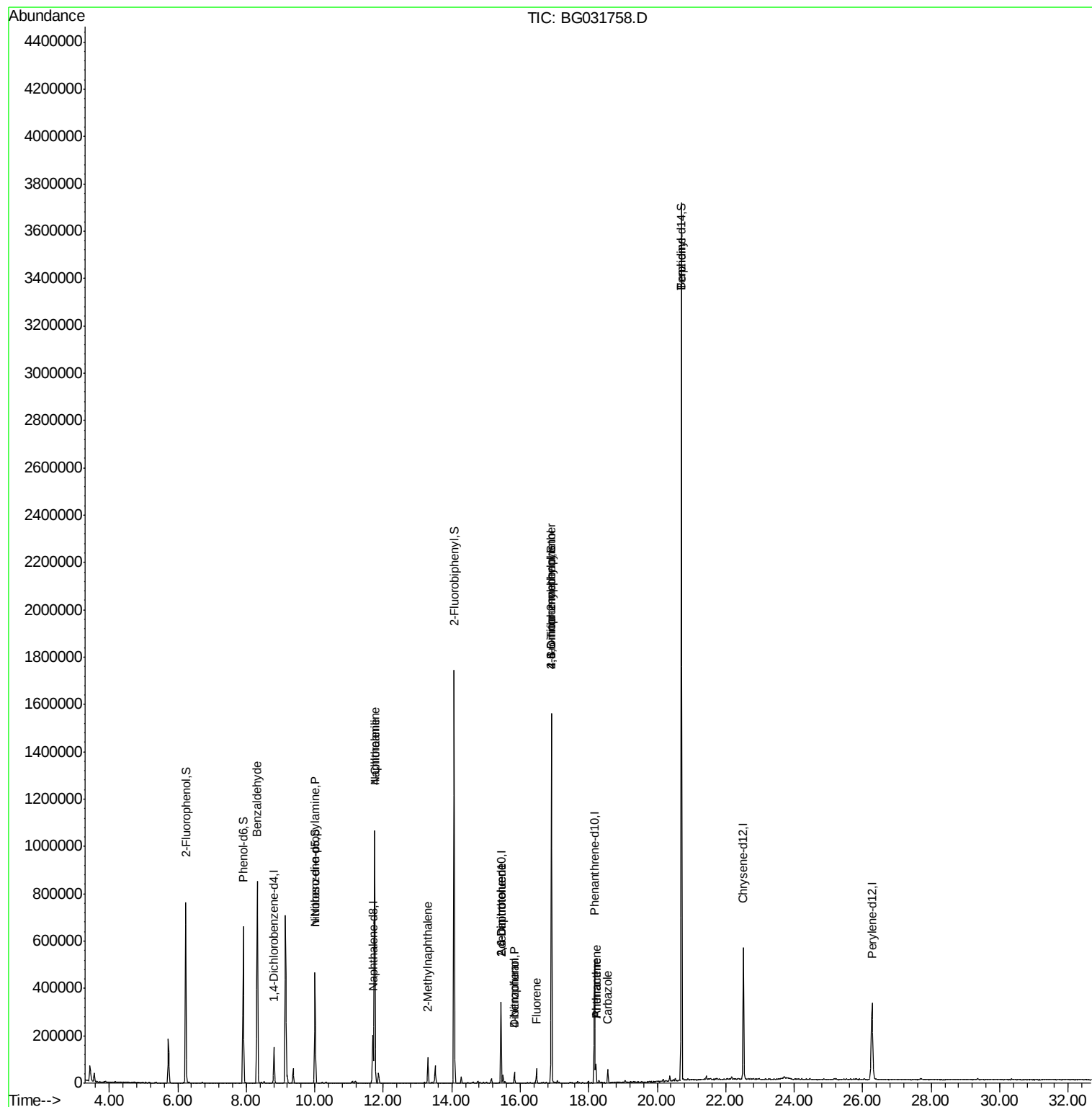
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	8.32	77	10138	4.467	ng	97
19) n-Nitroso-di-n-propylamine	10.00	70	39803	15.462	ng	# 69
31) Naphthalene	11.75	128	1039687	99.758	ng	99
33) 4-Chloroaniline	11.75	127	149537	32.228	ng	# 33
37) 2-Methylnaphthalene	13.30	142	58459	6.919	ng	88
50) 2,6-Dinitrotoluene	15.44	165	18109	8.306	ng	# 18
54) Dibenzofuran	15.83	168	35537	2.525	ng	98
55) 4-Nitrophenol	15.83	139	12319	7.115	ng	# 1
56) 2,4-Dinitrotoluene	15.44	165	18109	6.459	ng	# 16
57) Fluorene	16.47	166	33085	2.893	ng	98
64) 4,6-Dinitro-2-methylphenol	16.91	198	783	8.683	ng	# 1
66) 4-Bromophenyl-phenylether	16.91	248	30538	5.979	ng	# 1
70) Phenanthrene	18.21	178	57991	2.901	ng	96
71) Anthracene	18.21	178	57991	2.876	ng	96
72) Carbazole	18.56	167	44877	2.515	ng	93
76) Benizidine	20.70	184	26714	2.012	ng	# 89

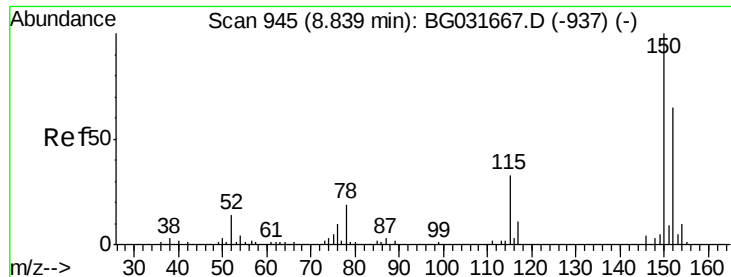
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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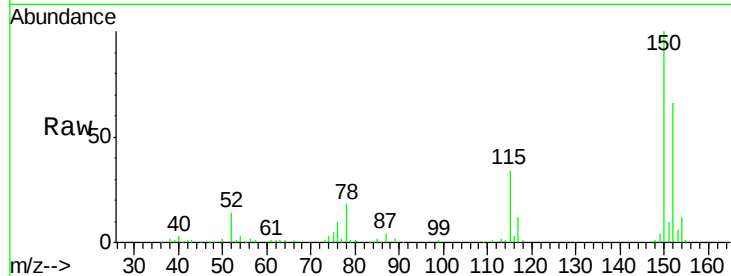


#1

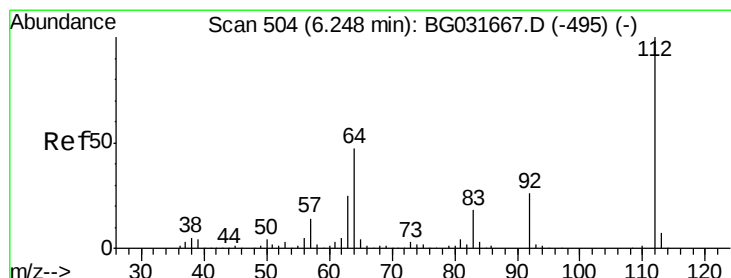
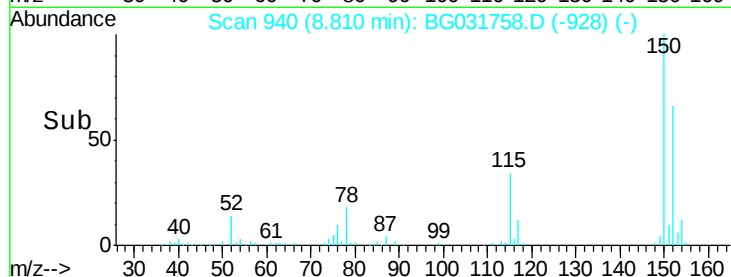
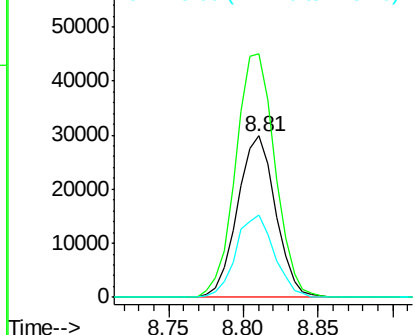
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 8.81 min Scan# 940
 Delta R.T. -0.03 min
 Lab File: BG031758.D
 Acq: 26 Dec 2017 12:52

Instrument :
 BNA_G
 ClientSampleId :
 VNJ-221-OILY-STONES

Tgt Ion:152 Resp: 52880
 Ion Ratio Lower Upper
 152 100
 150 150.8 126.6 189.8
 115 50.9 53.0 79.4#



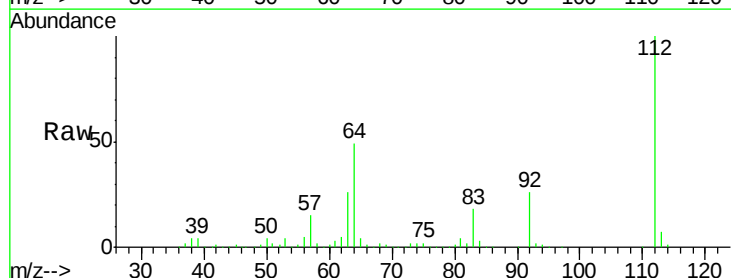
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



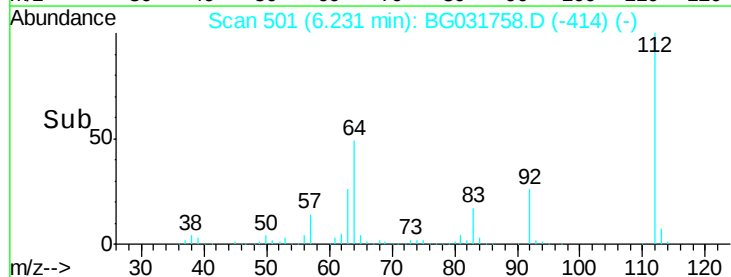
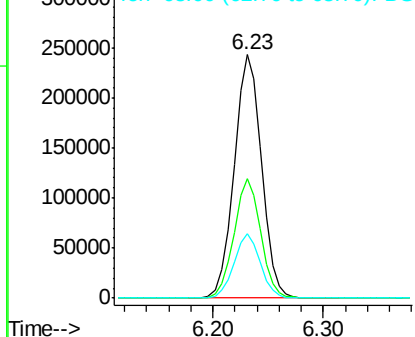
#5

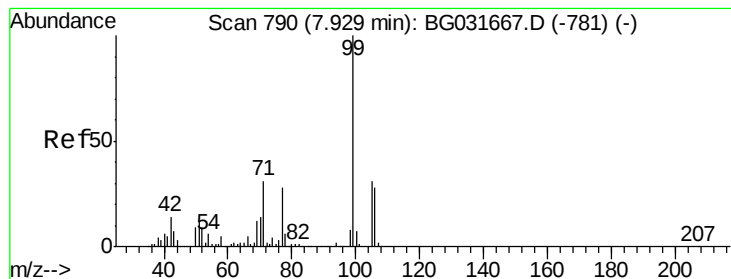
2-Fluorophenol
 Concen: 145.443 ng
 RT: 6.23 min Scan# 501
 Delta R.T. -0.02 min
 Lab File: BG031758.D
 Acq: 26 Dec 2017 12:52

Tgt Ion:112 Resp: 422263
 Ion Ratio Lower Upper
 112 100
 64 49.3 56.3 84.5#
 63 26.5 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: 125.071 ng

RT: 7.91 min Scan# 787

Delta R.T. -0.02 min

Lab File: BG031758.D

Acq: 26 Dec 2017 12:52

Instrument :

BNA_G

ClientSampleId :

VNJ-221-OILY-STONES

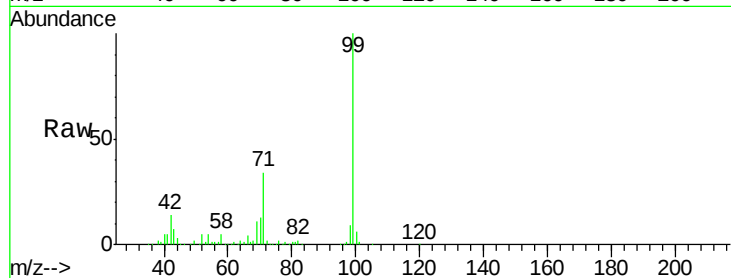
Tgt Ion: 99 Resp: 471445

Ion Ratio Lower Upper

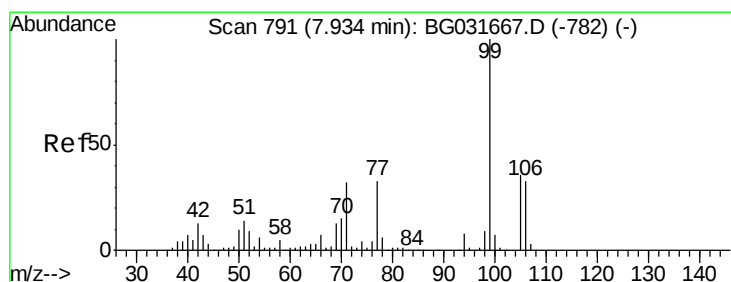
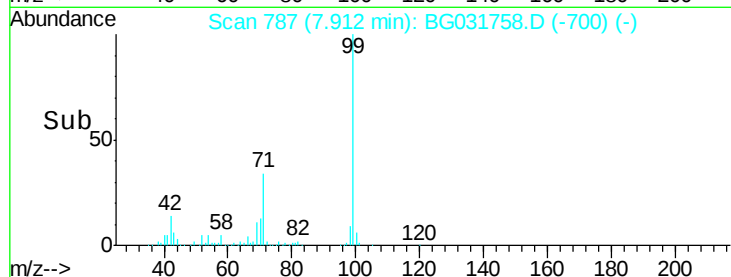
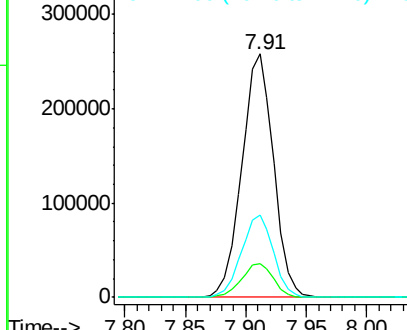
99 100

42 13.7 14.1 21.1#

71 33.8 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



#9

Benzaldehyde

Concen: 4.467 ng

RT: 8.32 min Scan# 856

Delta R.T. 0.38 min

Lab File: BG031758.D

Acq: 26 Dec 2017 12:52

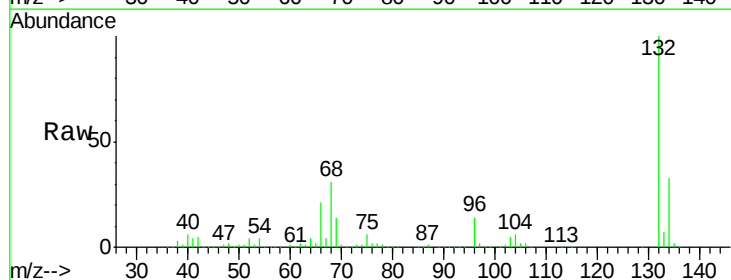
Tgt Ion: 77 Resp: 10138

Ion Ratio Lower Upper

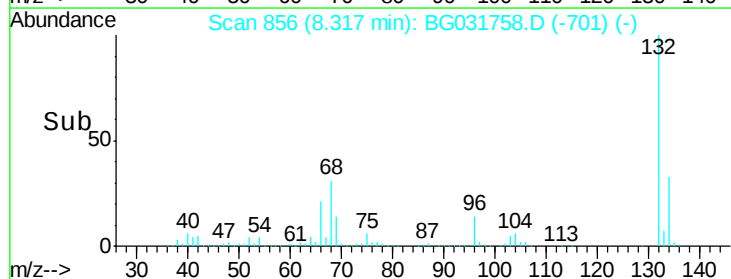
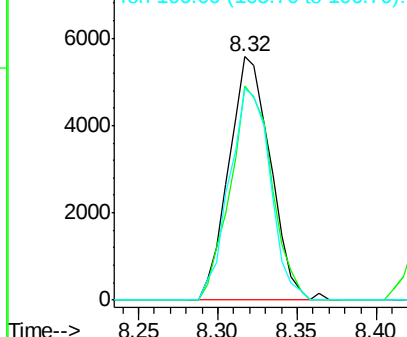
77 100

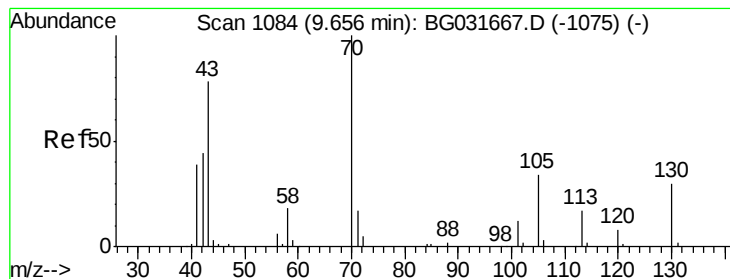
105 88.1 71.3 111.3

106 86.9 64.2 104.2



Abundance Ion 77.00 (76.70 to 77.70): BGC
Ion 105.00 (104.70 to 105.70): BGC
Ion 106.00 (105.70 to 106.70): BGC





#19

n-Nitroso-di-n-propylamine

Concen: 15.462 ng

RT: 10.00 min Scan# 1143

Delta R.T. 0.35 min

Lab File: BG031758.D

Acq: 26 Dec 2017 12:52

Instrument :

BNA_G

ClientSampleId :

VNJ-221-OILY-STONES

Tgt Ion: 70 Resp: 39803

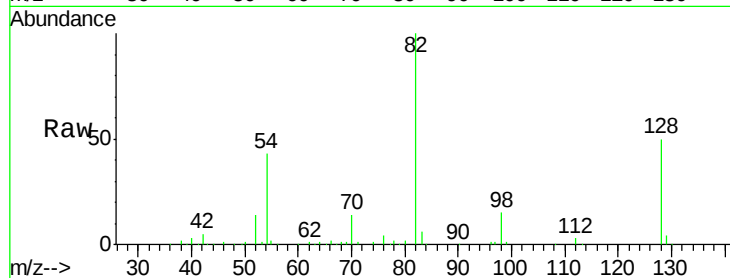
Ion Ratio Lower Upper

70 100

42 38.3 49.1 73.7#

101 0.0 8.5 12.7#

130 1.5 13.4 20.0#

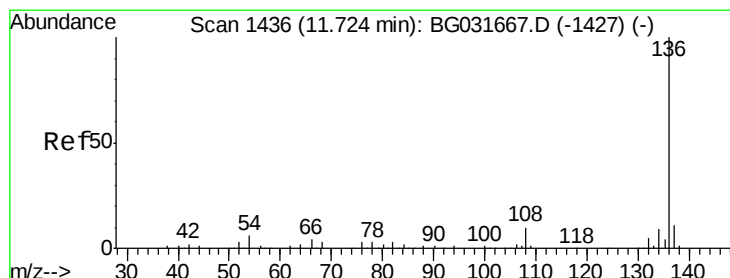
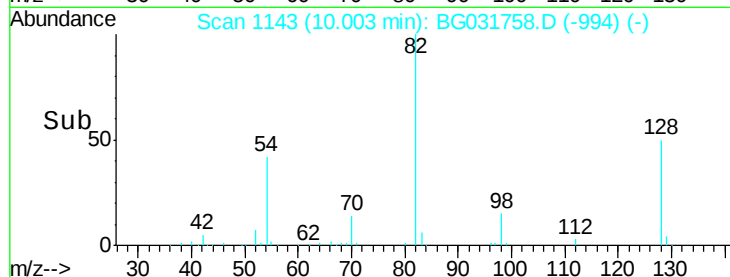
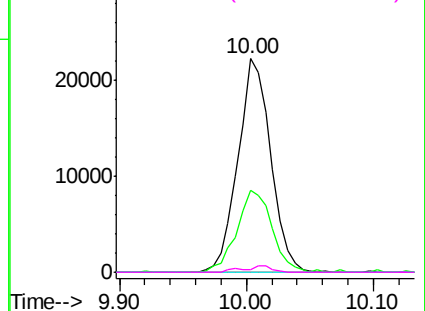


Abundance Ion 70.00 (69.70 to 70.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 101.00 (100.70 to 101.70): BGC

Ion 130.00 (129.70 to 130.70): BGC



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 11.70 min Scan# 1431

Delta R.T. -0.03 min

Lab File: BG031758.D

Acq: 26 Dec 2017 12:52

Tgt Ion: 136 Resp: 206511

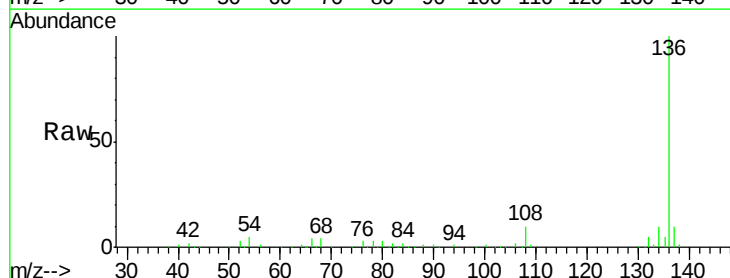
Ion Ratio Lower Upper

136 100

137 10.3 9.2 13.8

54 5.0 10.3 15.5#

68 3.6 4.5 6.7#

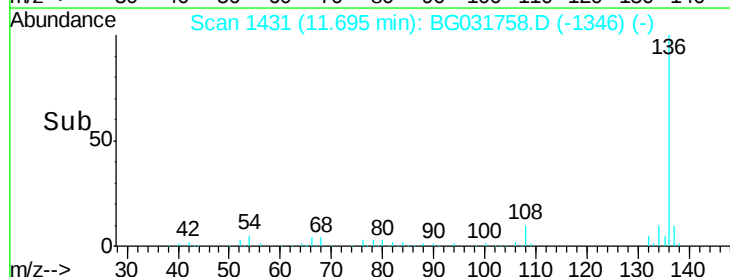
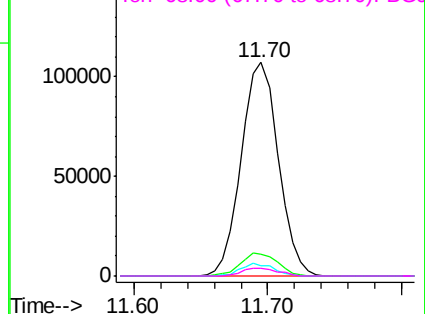


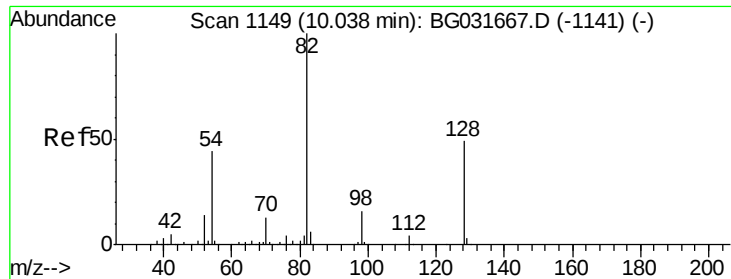
Abundance Ion 136.00 (135.70 to 136.70): BGC

Ion 137.00 (136.70 to 137.70): BGC

Ion 54.00 (53.70 to 54.70): BGC

Ion 68.00 (67.70 to 68.70): BGC

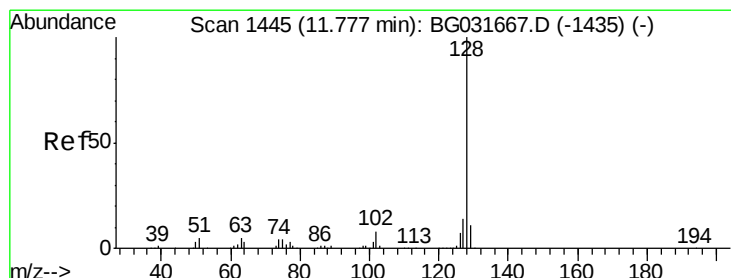
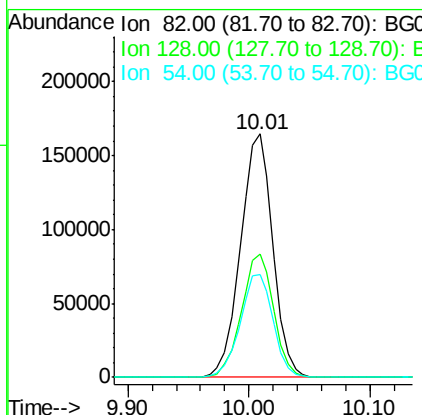
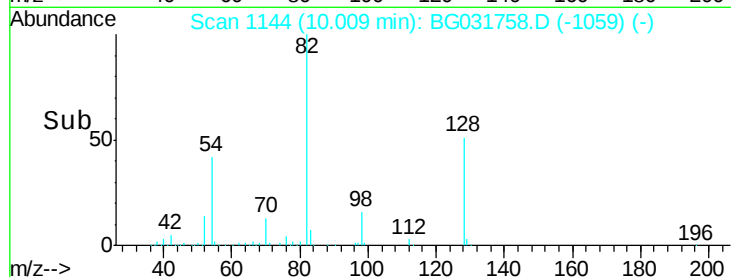
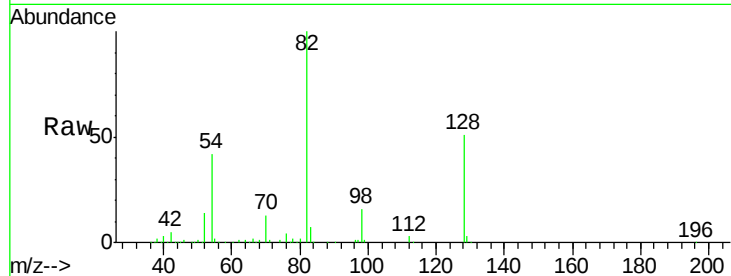




#23
Nitrobenzene-d5
Concen: 111.993 ng
RT: 10.01 min Scan# 1144
Delta R.T. -0.03 min
Lab File: BG031758.D
Acq: 26 Dec 2017 12:52

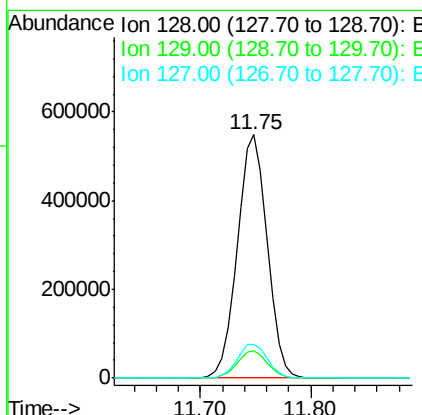
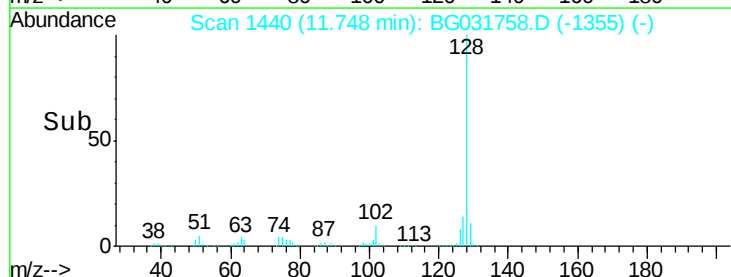
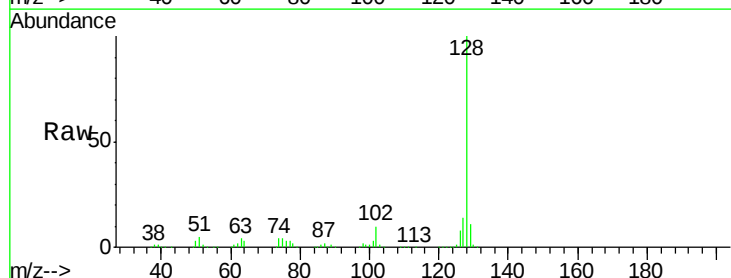
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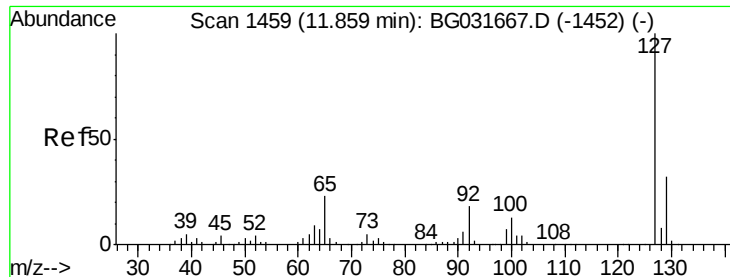
Tgt Ion: 82 Resp: 306279
Ion Ratio Lower Upper
82 100
128 50.8 29.7 44.5#
54 42.0 43.1 64.7#



#31
Naphthalene
Concen: 99.758 ng
RT: 11.75 min Scan# 1440
Delta R.T. -0.03 min
Lab File: BG031758.D
Acq: 26 Dec 2017 12:52

Tgt Ion: 128 Resp: 1039687
Ion Ratio Lower Upper
128 100
129 11.1 8.6 12.8
127 13.9 11.6 17.4

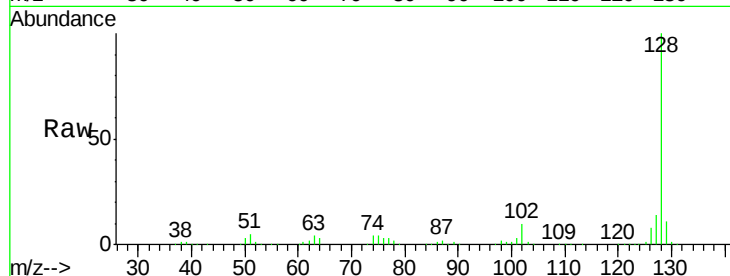




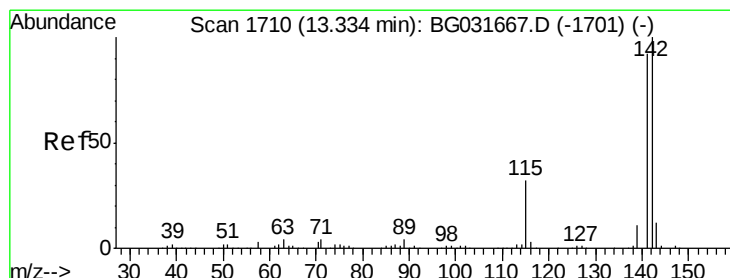
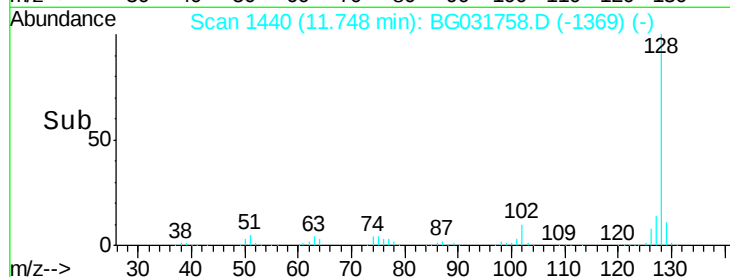
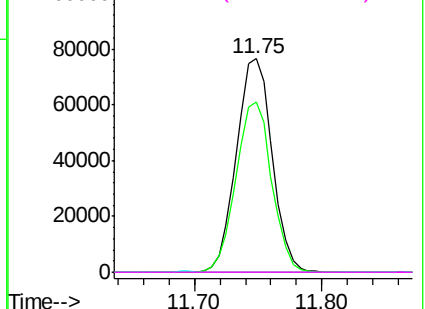
#33
4-Chloroaniline
Concen: 32.228 ng
RT: 11.75 min Scan# 1440
Delta R.T. -0.11 min
Lab File: BG031758.D
Acq: 26 Dec 2017 12:52

Instrument :
BNA_G
ClientSampleId :
VNJ-221-OILY-STONES

Tgt Ion:	127	Resp:	149537
Ion	Ratio	Lower	Upper
127	100		
129	79.5	24.0	36.0#
65	0.0	27.0	40.4#
92	0.0	16.6	25.0#

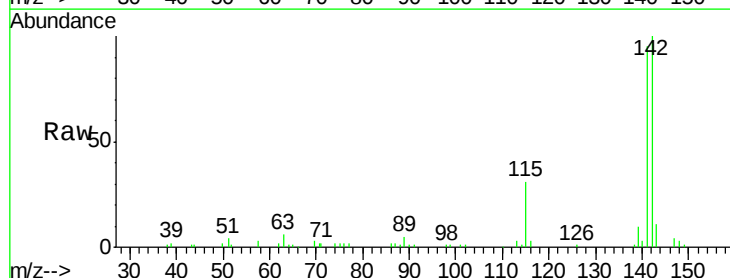


Abundance Ion 127.00 (126.70 to 127.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 65.00 (64.70 to 65.70): BGC
Ion 92.00 (91.70 to 92.70): BGC

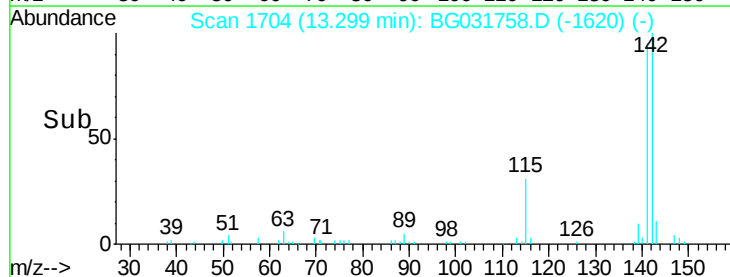
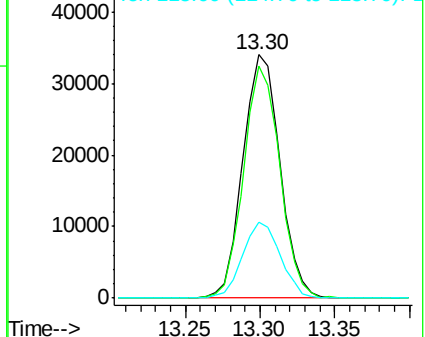


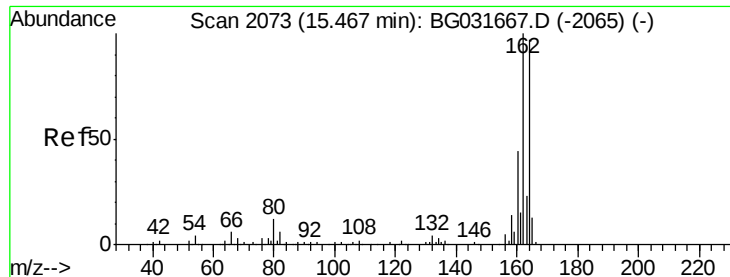
#37
2-Methylnaphthalene
Concen: 6.919 ng
RT: 13.30 min Scan# 1704
Delta R.T. -0.03 min
Lab File: BG031758.D
Acq: 26 Dec 2017 12:52

Tgt Ion:	142	Resp:	58459
Ion	Ratio	Lower	Upper
142	100		
141	95.1	67.1	100.7
115	31.2	30.7	46.1



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 15.44 min Scan# 2068

Delta R.T. -0.03 min

Lab File: BG031758.D

Acq: 26 Dec 2017 12:52

Instrument :

BNA_G

ClientSampleId :

VNJ-221-OILY-STONES

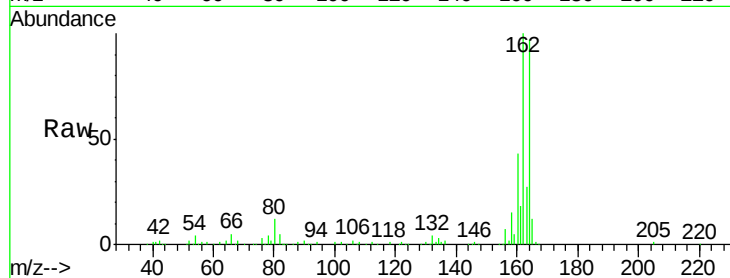
Tgt Ion:164 Resp: 134534

Ion Ratio Lower Upper

164 100

162 103.2 78.8 118.2

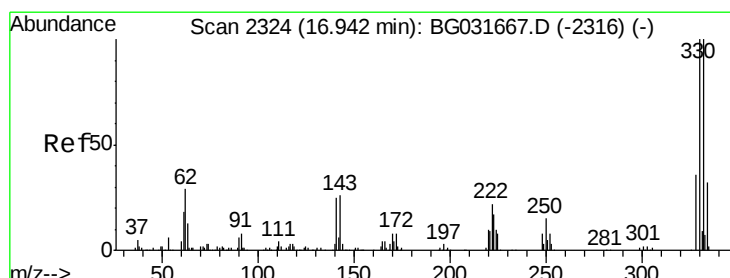
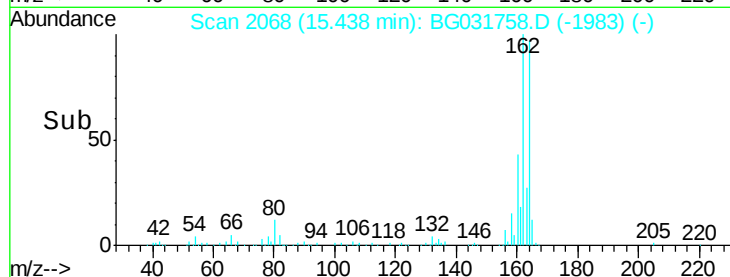
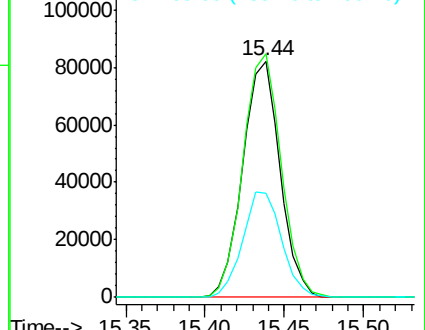
160 44.2 35.4 53.0



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: 185.246 ng

RT: 16.91 min Scan# 2319

Delta R.T. -0.03 min

Lab File: BG031758.D

Acq: 26 Dec 2017 12:52

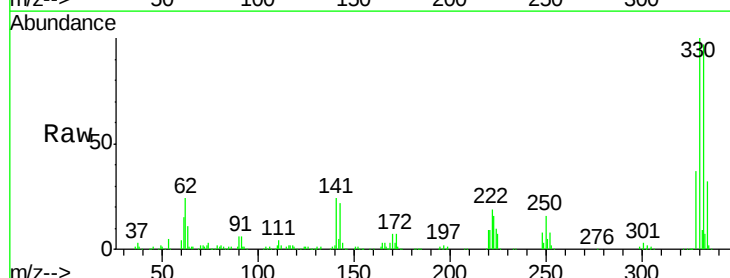
Tgt Ion:330 Resp: 380274

Ion Ratio Lower Upper

330 100

332 96.7 77.0 115.6

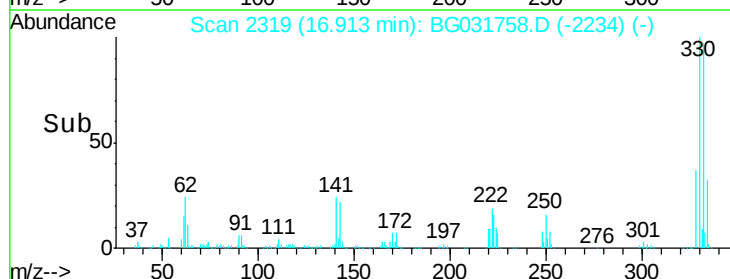
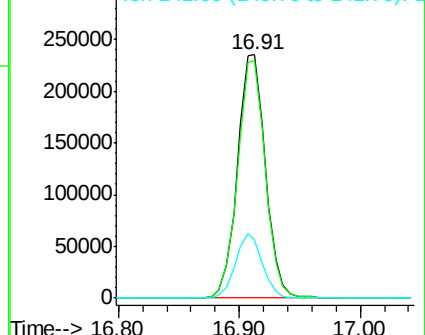
141 25.4 25.2 37.8

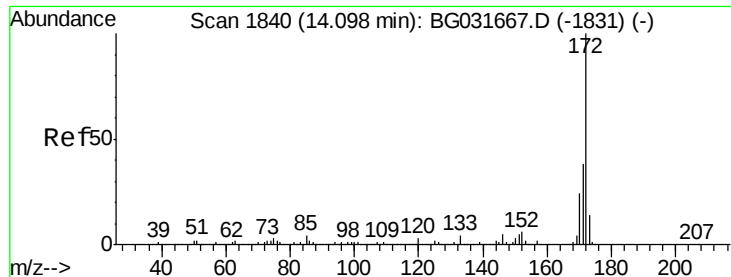


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

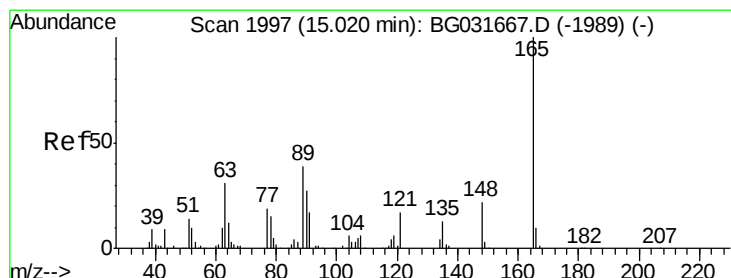
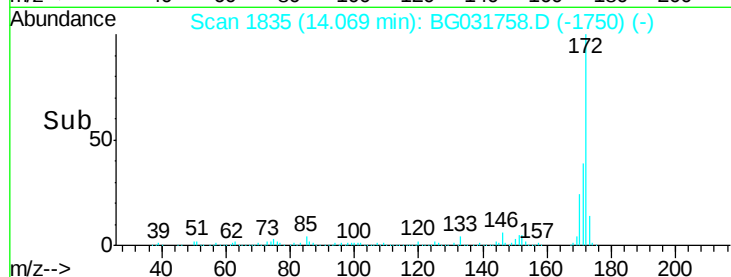
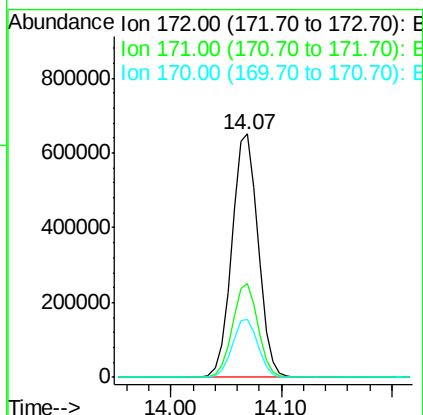
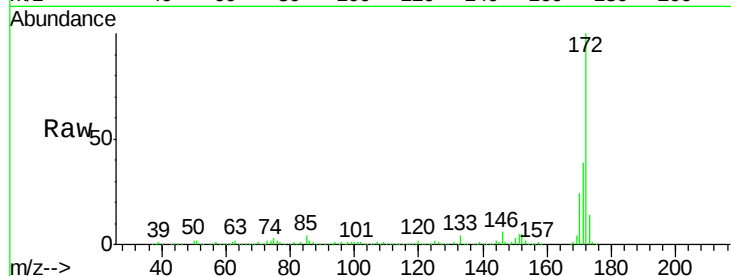




#44
 2-Fluorobiphenyl
 Concen: 100.811 ng
 RT: 14.07 min Scan# 1835
 Delta R.T. -0.03 min
 Lab File: BG031758.D
 Acq: 26 Dec 2017 12:52

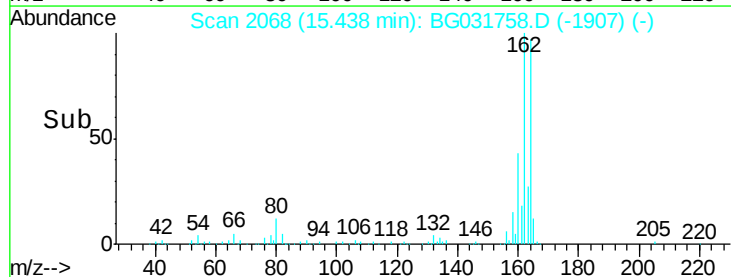
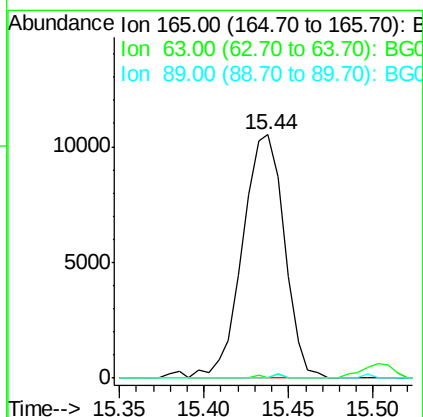
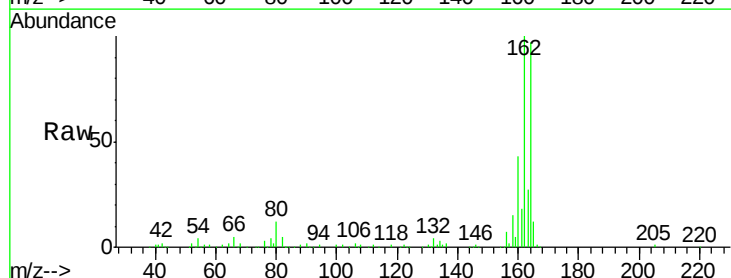
Instrument :
 BNA_G
 ClientSampleId :
 VNJ-221-OILY-STONES

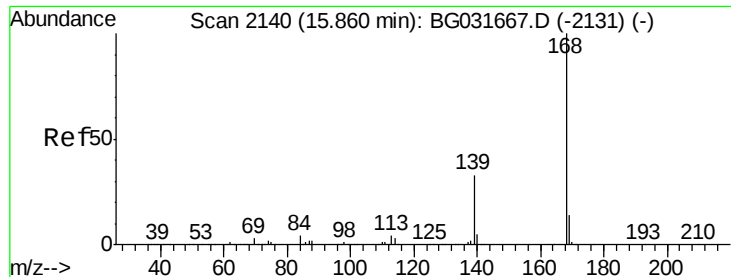
Tgt Ion:172 Resp: 1080561
 Ion Ratio Lower Upper
 172 100
 171 38.5 30.0 45.0
 170 23.9 19.5 29.3



#50
 2,6-Dinitrotoluene
 Concen: 8.306 ng
 RT: 15.44 min Scan# 2068
 Delta R.T. 0.42 min
 Lab File: BG031758.D
 Acq: 26 Dec 2017 12:52

Tgt Ion:165 Resp: 18109
 Ion Ratio Lower Upper
 165 100
 63 0.0 52.7 79.1#
 89 0.0 49.2 73.8#





#54

Dibenzenofuran

Concen: 2.525 ng

RT: 15.83 min Scan# 2134

Delta R.T. -0.03 min

Lab File: BG031758.D

Acq: 26 Dec 2017 12:52

Instrument :

BNA_G

ClientSampleId :

VNJ-221-OILY-STONES

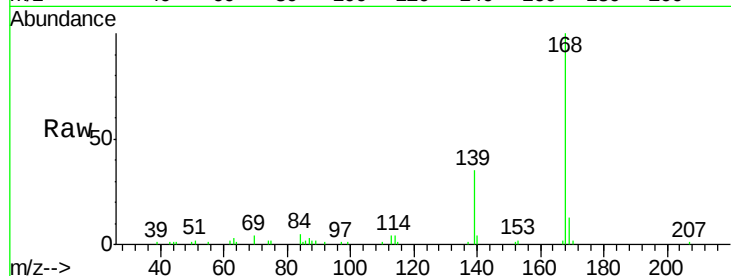
Tgt Ion:168 Resp: 35537

Ion Ratio Lower Upper

168 100

139 34.7 28.6 43.0

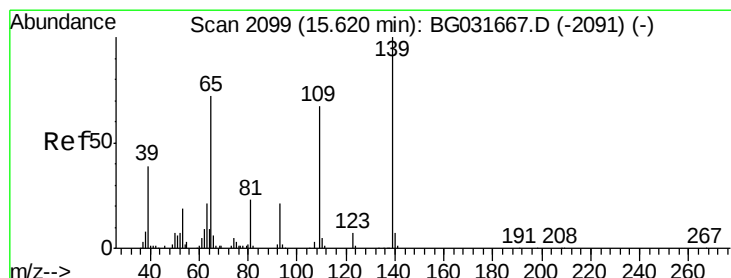
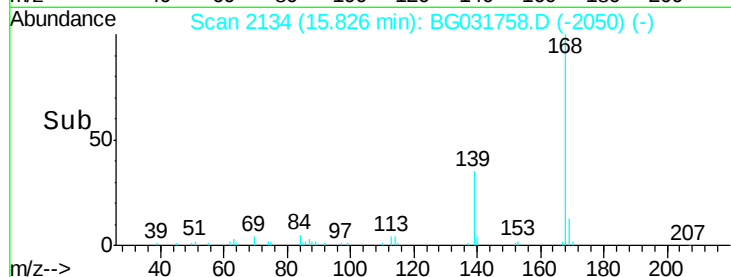
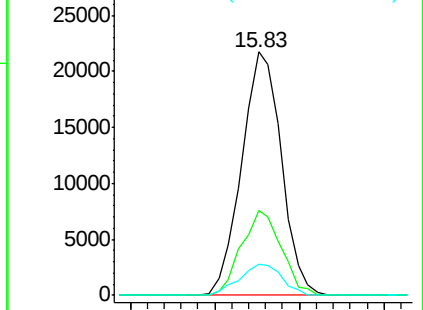
169 12.5 11.2 16.8



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#55

4-Nitrophenol

Concen: 7.115 ng

RT: 15.83 min Scan# 2134

Delta R.T. 0.21 min

Lab File: BG031758.D

Acq: 26 Dec 2017 12:52

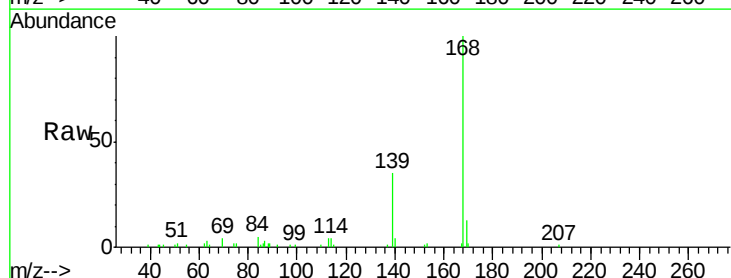
Tgt Ion:139 Resp: 12319

Ion Ratio Lower Upper

139 100

109 0.0 62.2 102.2#

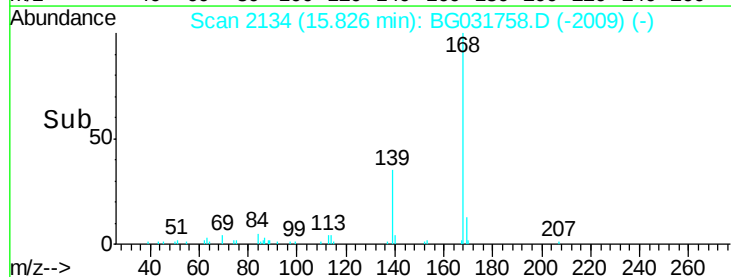
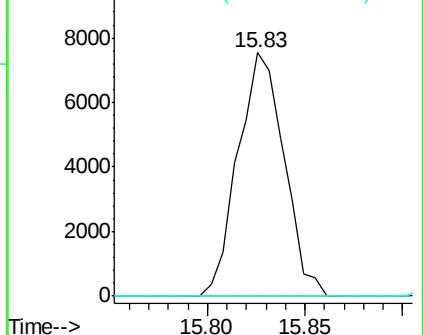
65 0.0 97.2 137.2#

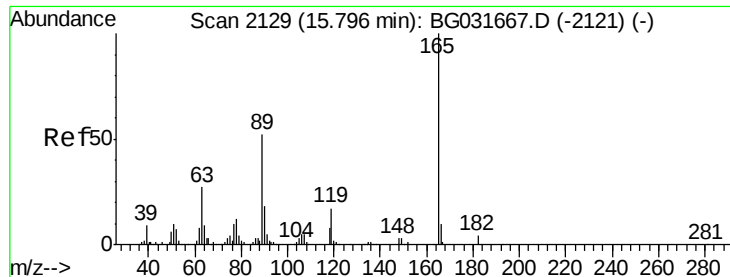


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BGC





#56

2,4-Dinitrotoluene

Concen: 6.459 ng

RT: 15.44 min Scan# 2068

Delta R.T. -0.36 min

Lab File: BG031758.D

Acq: 26 Dec 2017 12:52

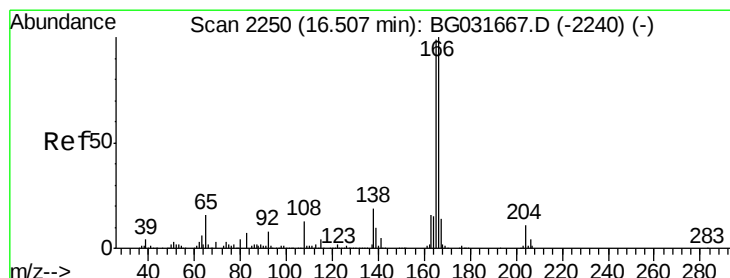
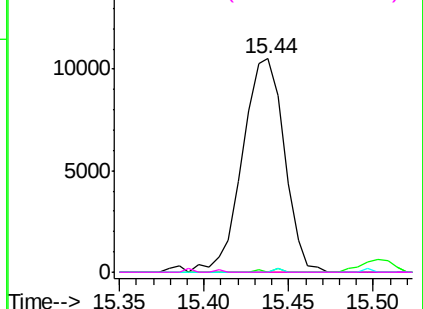
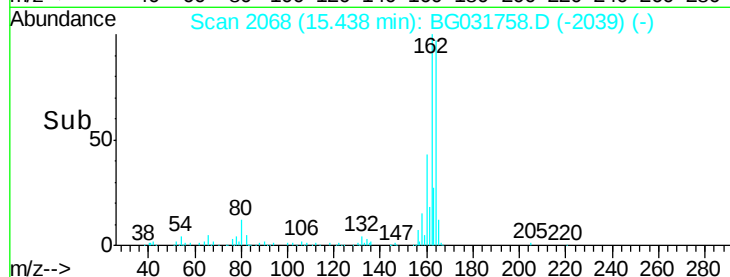
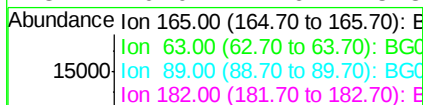
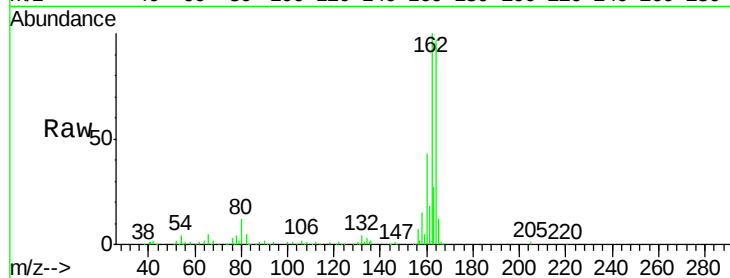
Instrument :

BNA_G

ClientSampleId :

VNJ-221-OILY-STONES

Tgt Ion:	165	Resp:	18109
Ion Ratio	Lower	Upper	
165	100		
63	0.0	42.0	63.0#
89	0.0	66.9	100.3#
182	0.0	2.6	3.8#



#57

Fluorene

Concen: 2.893 ng

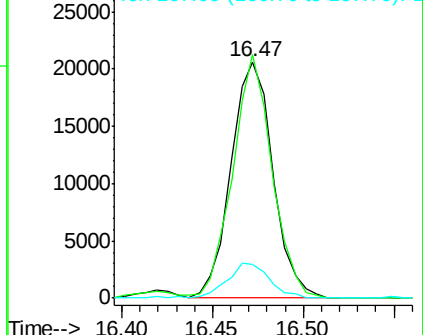
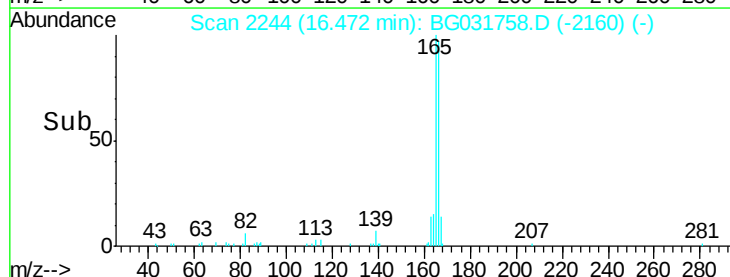
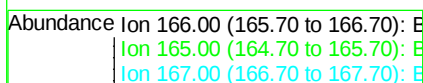
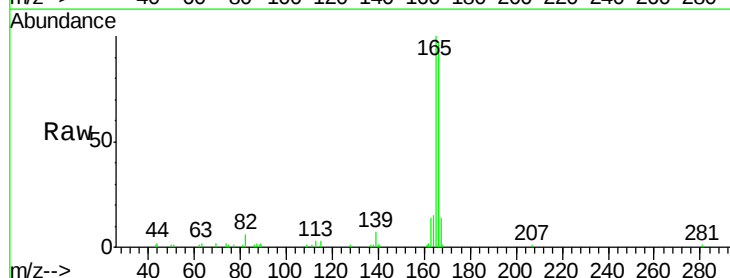
RT: 16.47 min Scan# 2244

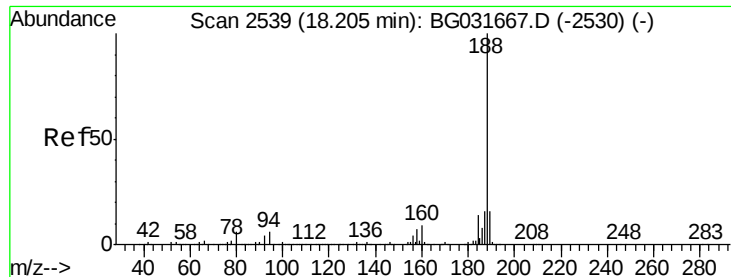
Delta R.T. -0.03 min

Lab File: BG031758.D

Acq: 26 Dec 2017 12:52

Tgt Ion:	166	Resp:	33085
Ion Ratio	Lower	Upper	
166	100		
165	103.1	80.6	121.0
167	14.5	10.4	15.6

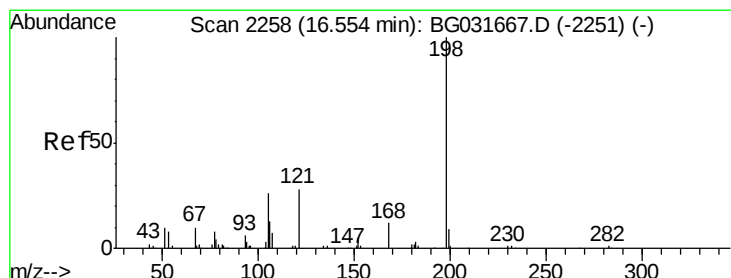
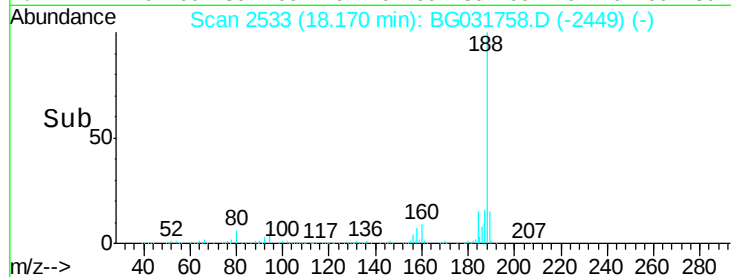
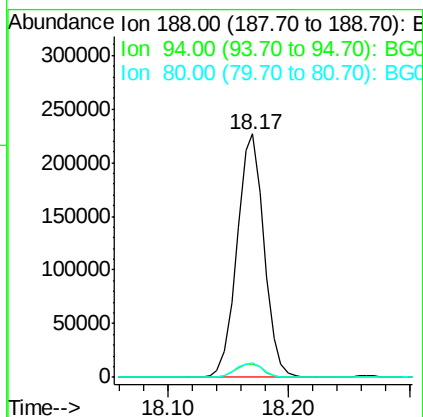
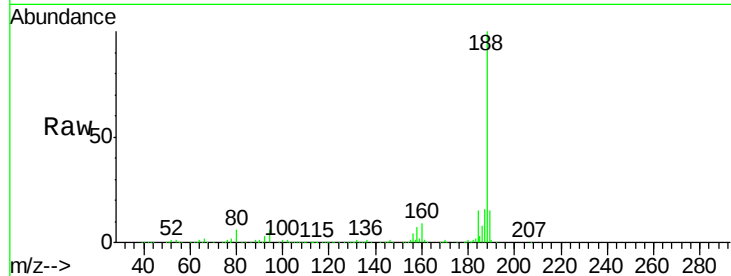




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 18.17 min Scan# 2533
Delta R.T. -0.03 min
Lab File: BG031758.D
Acq: 26 Dec 2017 12:52

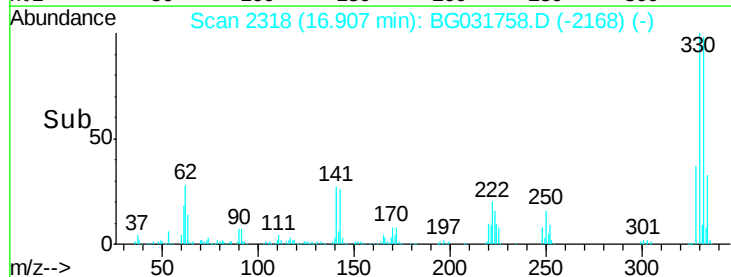
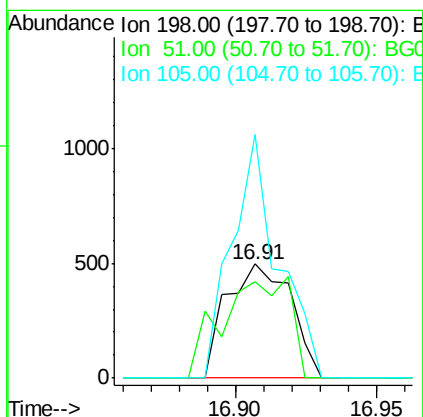
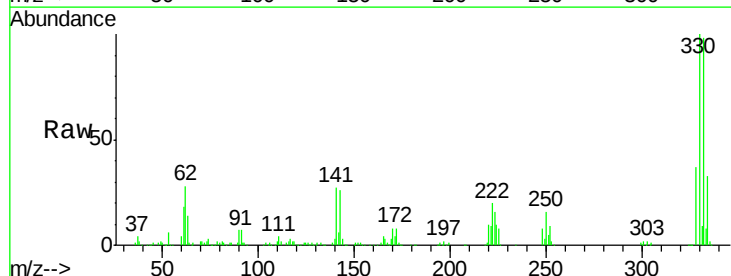
Instrument :
BNA_G
ClientSampleId :
VNJ-221-OILY-STONES

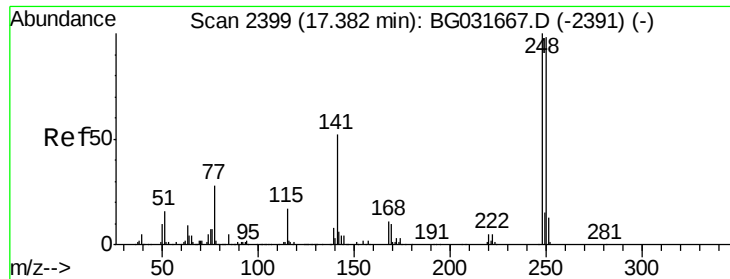
Tgt Ion:188 Resp: 353176
Ion Ratio Lower Upper
188 100
94 5.6 6.9 10.3#
80 5.7 7.7 11.5#



#64
4,6-Dinitro-2-methylphenol
Concen: 8.683 ng
RT: 16.91 min Scan# 2318
Delta R.T. 0.35 min
Lab File: BG031758.D
Acq: 26 Dec 2017 12:52

Tgt Ion:198 Resp: 783
Ion Ratio Lower Upper
198 100
51 84.9 30.6 70.6#
105 213.9 23.8 63.8#

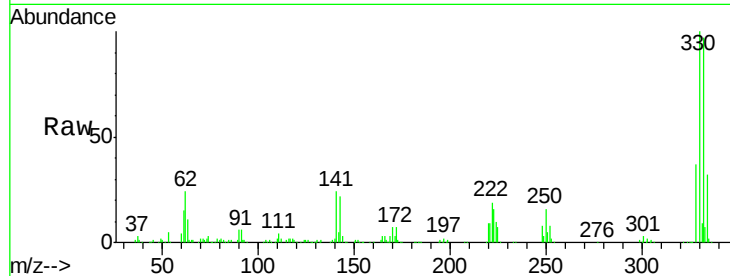




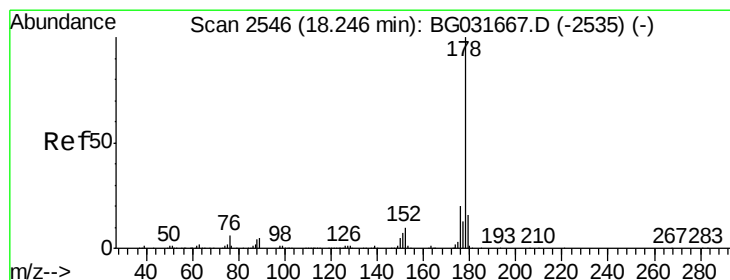
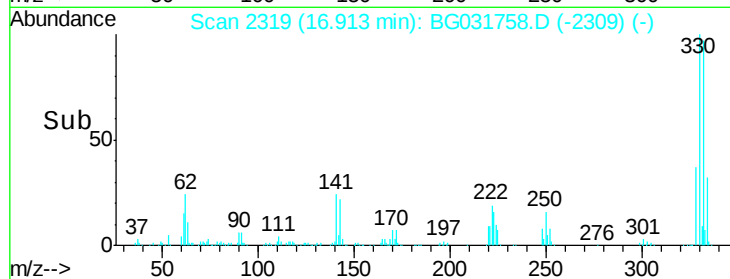
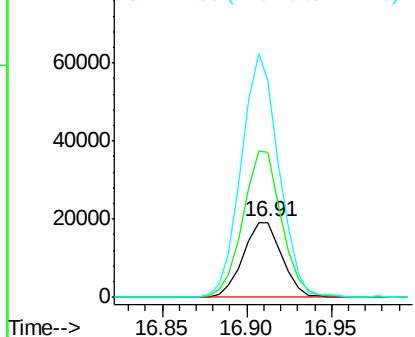
#66
4-Bromophenyl-phenylether
Concen: 5.979 ng
RT: 16.91 min Scan# 2319
Delta R.T. -0.47 min
Lab File: BG031758.D
Acq: 26 Dec 2017 12:52

Instrument :
BNA_G
ClientSampleId :
VNJ-221-OILY-STONES

Tgt Ion:248 Resp: 30538
Ion Ratio Lower Upper
248 100
250 193.0 77.1 115.7#
141 289.1 50.8 76.2#

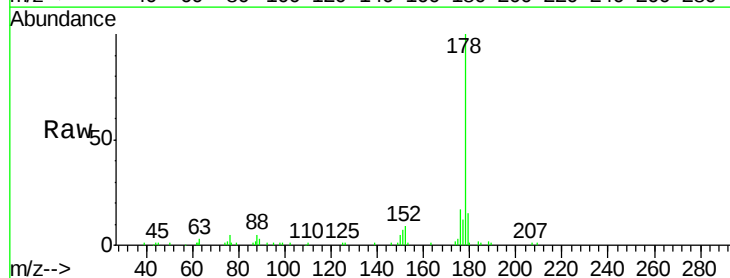


Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

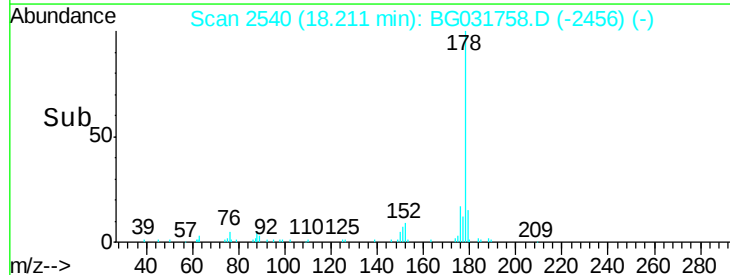
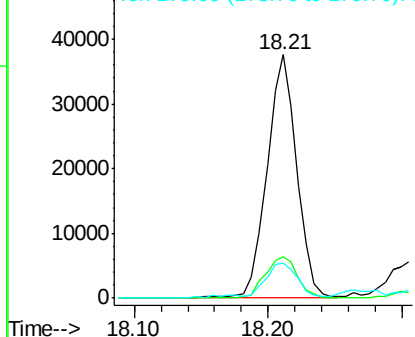


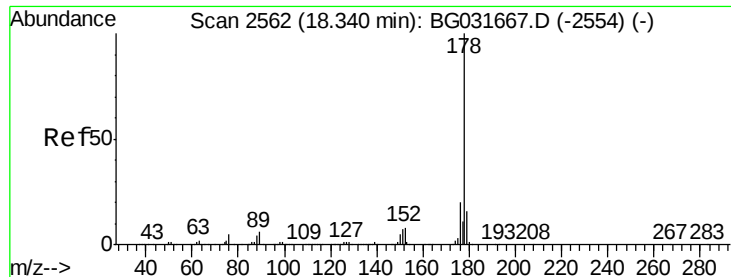
#70
Phenanthrene
Concen: 2.901 ng
RT: 18.21 min Scan# 2540
Delta R.T. -0.03 min
Lab File: BG031758.D
Acq: 26 Dec 2017 12:52

Tgt Ion:178 Resp: 57991
Ion Ratio Lower Upper
178 100
176 17.2 15.7 23.5
179 14.6 12.5 18.7



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

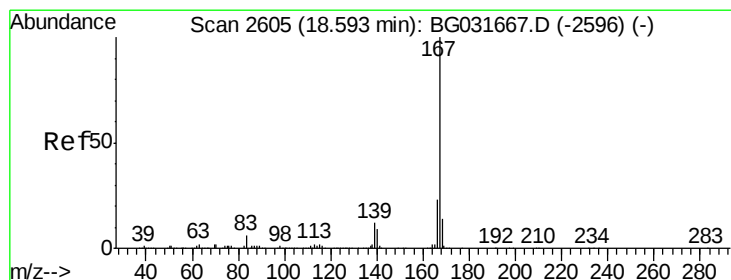
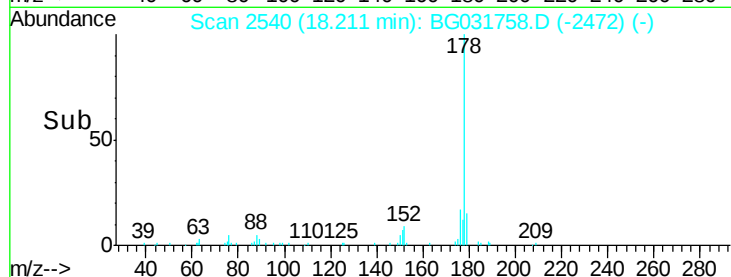
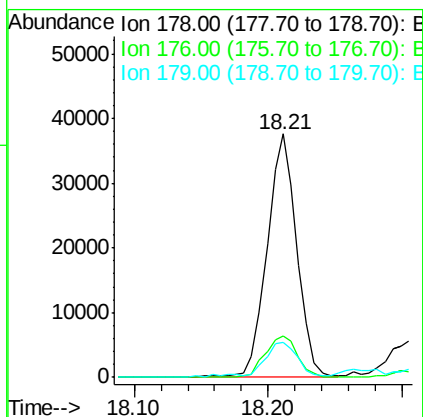
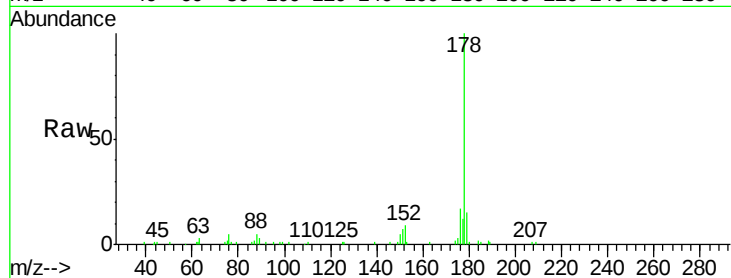




#71
 Anthracene
 Concen: 2.876 ng
 RT: 18.21 min Scan# 2540
 Delta R.T. -0.13 min
 Lab File: BG031758.D
 Acq: 26 Dec 2017 12:52

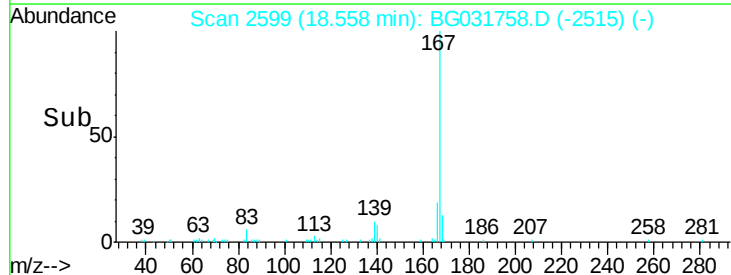
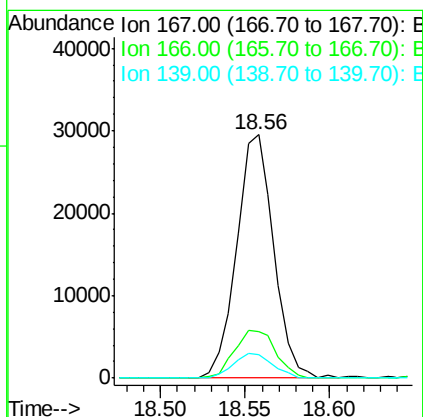
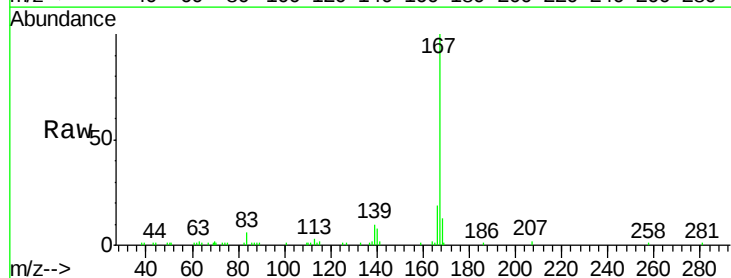
Instrument :
 BNA_G
 ClientSampleId :
 VNJ-221-OILY-STONES

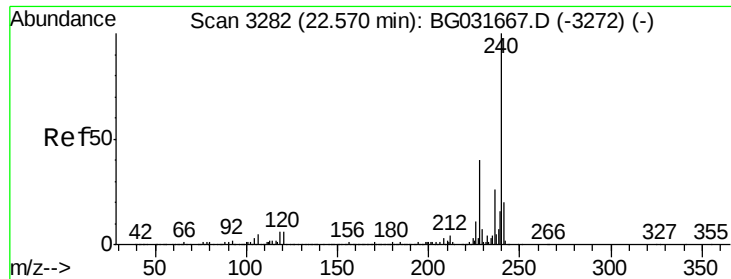
Tgt Ion:178 Resp: 57991
 Ion Ratio Lower Upper
 178 100
 176 17.2 16.0 24.0
 179 14.6 12.5 18.7



#72
 Carbazole
 Concen: 2.515 ng
 RT: 18.56 min Scan# 2599
 Delta R.T. -0.03 min
 Lab File: BG031758.D
 Acq: 26 Dec 2017 12:52

Tgt Ion:167 Resp: 44877
 Ion Ratio Lower Upper
 167 100
 166 19.1 18.2 27.4
 139 9.9 9.4 14.2

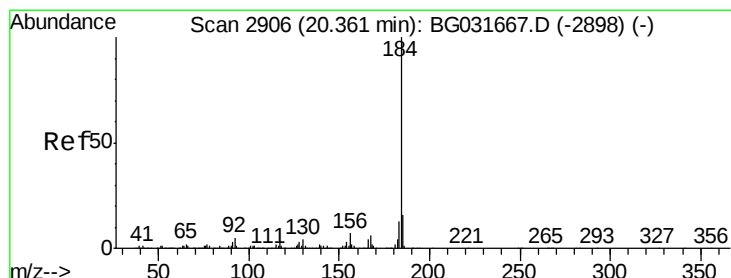
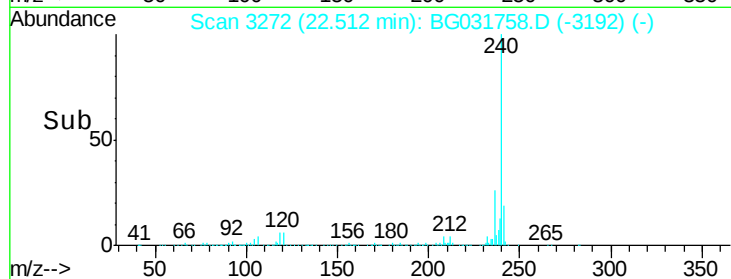
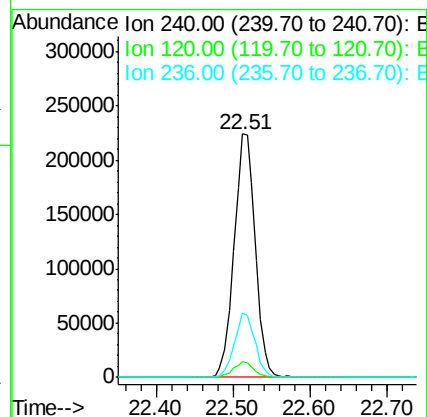
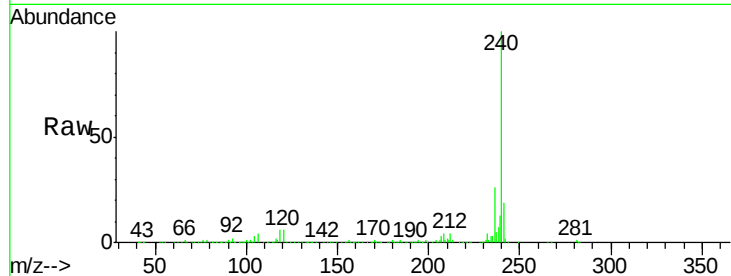




#75
 Chrysene-d12
 Concen: 20.000 ng
 RT: 22.51 min Scan# 3272
 Delta R.T. -0.06 min
 Lab File: BG031758.D
 Acq: 26 Dec 2017 12:52

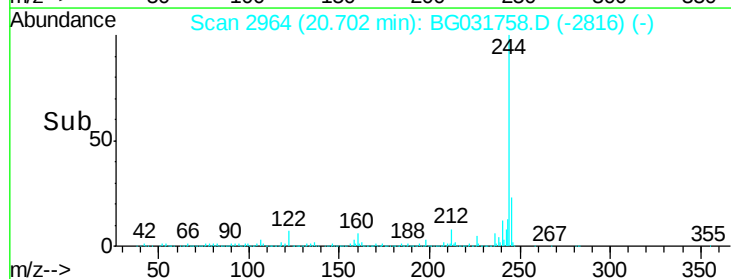
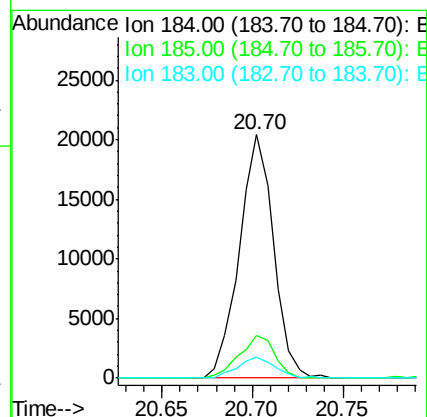
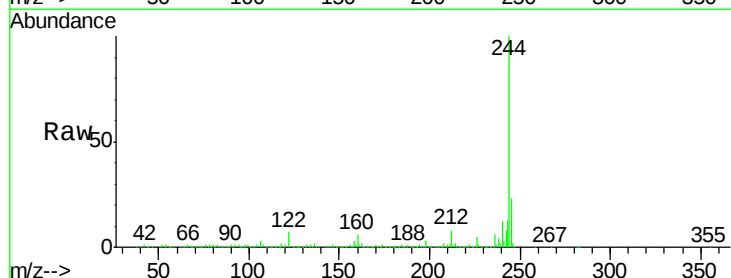
Instrument :
 BNA_G
 ClientSampleId :
 VNJ-221-OILY-STONES

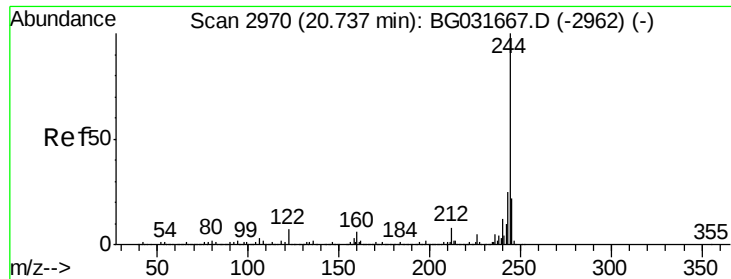
Tgt Ion:240 Resp: 430167
 Ion Ratio Lower Upper
 240 100
 120 6.4 6.8 10.2#
 236 26.3 20.9 31.3



#76
 Benzidine
 Concen: 2.012 ng
 RT: 20.70 min Scan# 2964
 Delta R.T. 0.34 min
 Lab File: BG031758.D
 Acq: 26 Dec 2017 12:52

Tgt Ion:184 Resp: 26714
 Ion Ratio Lower Upper
 184 100
 185 17.6 11.1 16.7#
 183 8.4 10.6 16.0#





#78

Terphenyl-d14

Concen: 109.066 ng

RT: 20.70 min Scan# 2964

Delta R.T. -0.03 min

Lab File: BG031758.D

Acq: 26 Dec 2017 12:52

Instrument :

BNA_G

ClientSampleId :

VNJ-221-OILY-STONES

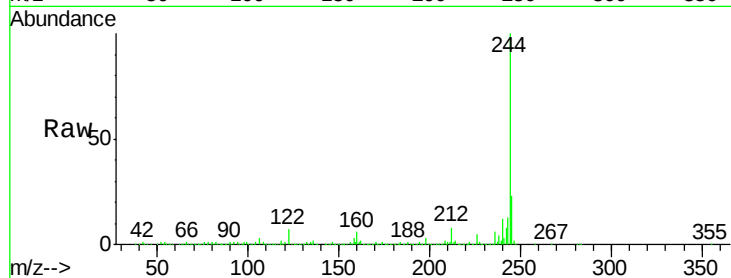
Tgt Ion:244 Resp: 2053567

Ion Ratio Lower Upper

244 100

212 7.9 5.8 8.8

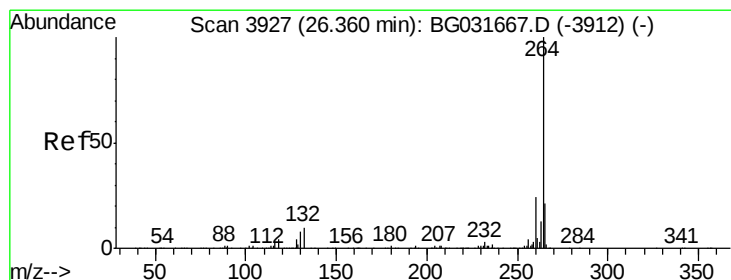
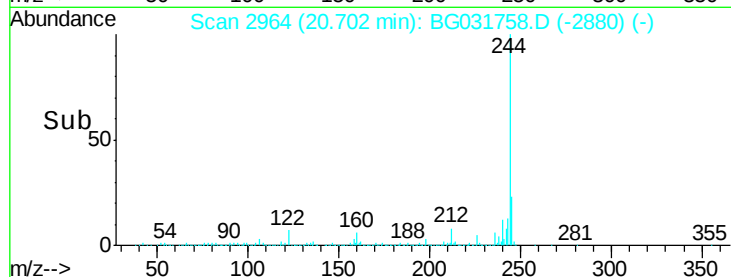
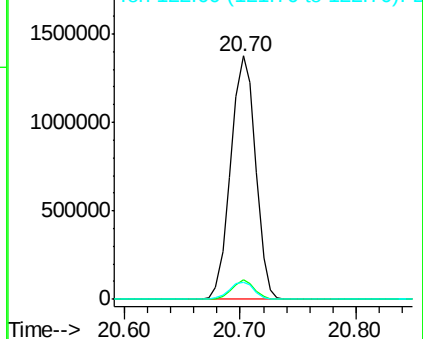
122 7.2 7.0 10.4



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

Perylene-d12

Concen: 20.000 ng

RT: 26.27 min Scan# 3911

Delta R.T. -0.09 min

Lab File: BG031758.D

Acq: 26 Dec 2017 12:52

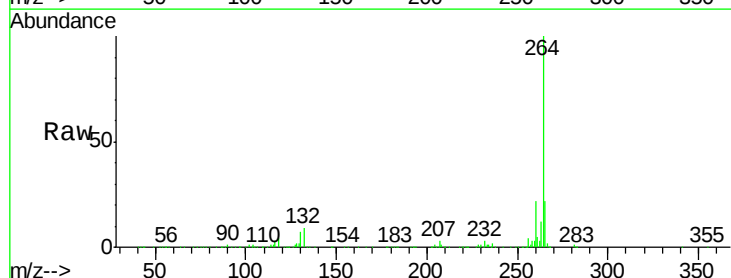
Tgt Ion:264 Resp: 453478

Ion Ratio Lower Upper

264 100

260 21.8 17.4 26.0

265 21.7 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

