

Data Path : Z:\HPCHEM1\BNA G\Data\BG042116\RAW\
 Data File : BG021780.D
 Acq On : 20 Apr 2016 11:47
 Operator : UM/SJ
 Sample : H2589-05
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Apr 20 16:04:19 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 13 15:48:13 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

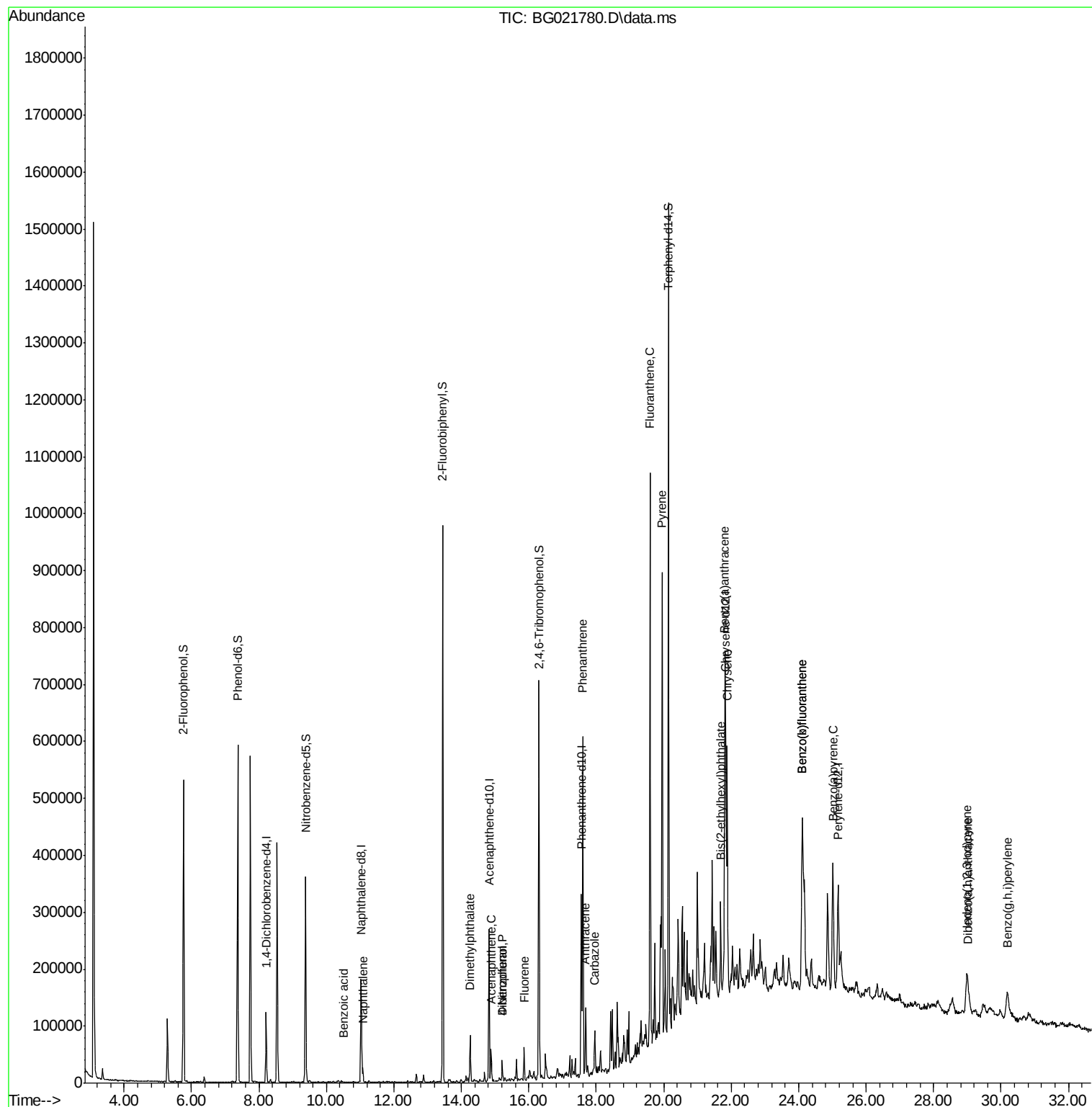
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.214	152	34933	20.00	ng	0.00
21) Naphthalene-d8	11.028	136	158179	20.00	ng	0.00
38) Acenaphthene-d10	14.818	164	93396	20.00	ng	0.00
63) Phenanthrene-d10	17.556	188	196911	20.00	ng	0.00
75) Chrysene-d12	21.833	240	217887	20.00	ng	0.00
86) Perylene-d12	25.170	264	213411	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.758	112	242631	115.66	ng	0.00
7) Phenol-d6	7.368	99	361266	115.29	ng	0.00
23) Nitrobenzene-d5	9.377	82	226456	73.59	ng	0.00
41) 2,4,6-Tribromophenol	16.304	330	123785	122.98	ng	0.00
44) 2-Fluorobiphenyl	13.449	172	506220	79.41	ng	0.00
78) Terphenyl-d14	20.141	244	600342	68.75	ng	0.00
Target Compounds						
						Qvalue
31) Naphthalene	11.081	128	21910	2.59	ng	99
32) Benzoic acid	10.499	122	57	4.30	ng	# 1
49) Dimethylphthalate	14.260	163	53444	6.62	ng	99
51) Acenaphthene	14.882	154	22100	3.59	ng	94
54) Dibenzofuran	15.211	168	20290	2.42	ng	96
55) 4-Nitrophenol	15.211	139	7880	5.39	ng	# 8
57) Fluorene	15.864	166	26574	3.54	ng	98
70) Phenanthrene	17.603	178	382987	35.29	ng	99
71) Anthracene	17.685	178	76752	6.97	ng	98
72) Carbazole	17.955	167	50182	4.88	ng	98
74) Fluoranthene	19.594	202	620041	47.85	ng	99
77) Pyrene	19.953	202	529306	42.13	ng	99
80) Benzo(a)anthracene	21.810	228	330140	26.33	ng	98
82) Chrysene	21.880	228	309223	25.67	ng	97
83) Bis(2-ethylhexyl)phtha...	21.692	149	62610	7.34	ng	# 98
85) Indeno(1,2,3-cd)pyrene	28.989	276	145670	10.17	ng	94
87) Benzo(b)fluoranthene	24.107	252	403523	32.59	ng	97
88) Benzo(k)fluoranthene	24.107	252	403384	33.31	ng	98
89) Benzo(a)pyrene	25.018	252	273509	22.80	ng	96
90) Dibenzo(a,h)anthracene	29.030	278	38237	3.18	ng	# 90
91) Benzo(g,h,i)perylene	30.200	276	137388	11.64	ng	96

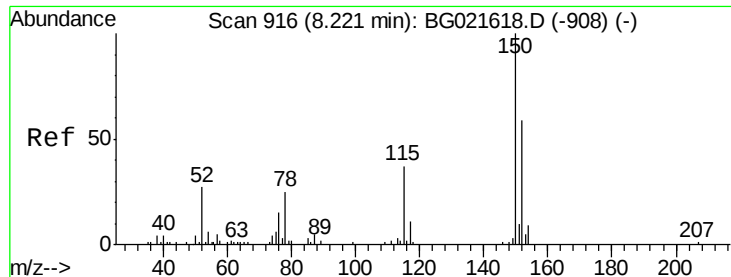
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.214 min Scan# 91

Delta R.T. -0.008 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

Instrument :

BNA_G

ClientSampleId :

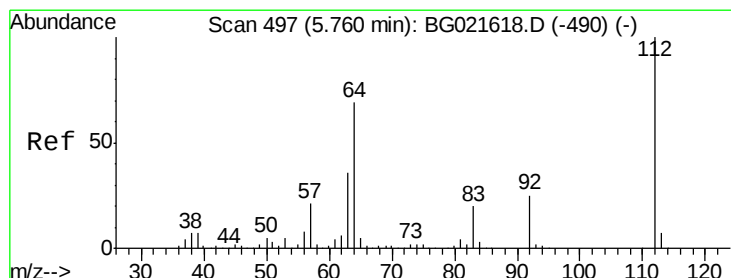
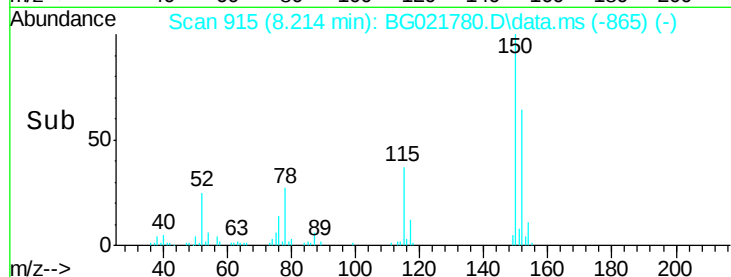
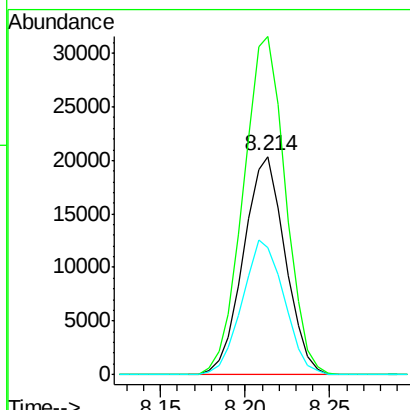
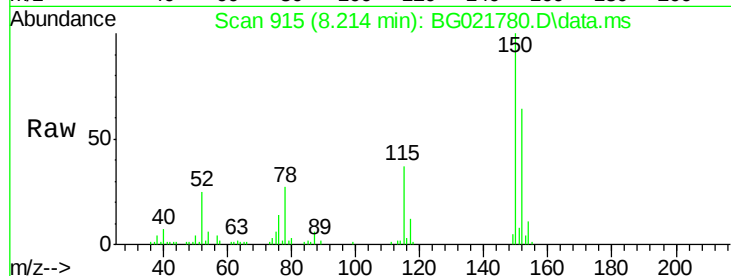
Tot Ion:152 Resp: 34933

Ion Ratio Lower Upper

152 100

150 155.2 130.1 195.1

115 58.1 62.2 93.2#



#5

2-Fluorophenol

Concen: 115.66 ng

RT: 5.758 min Scan# 497

Delta R.T. -0.001 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

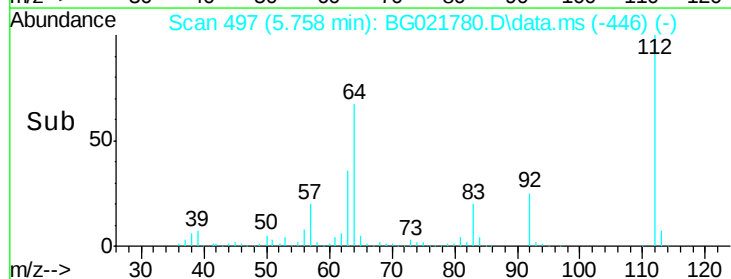
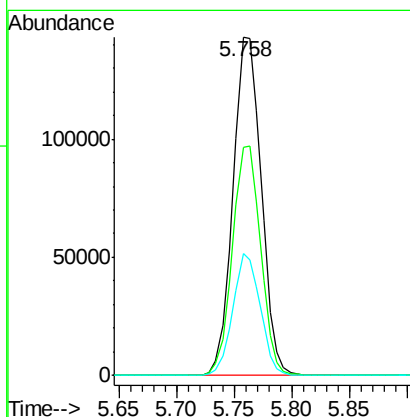
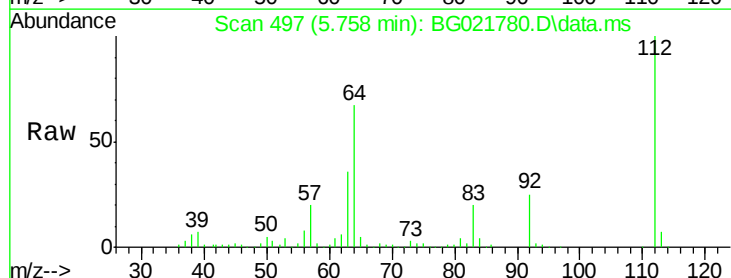
Tgt Ion:112 Resp: 242631

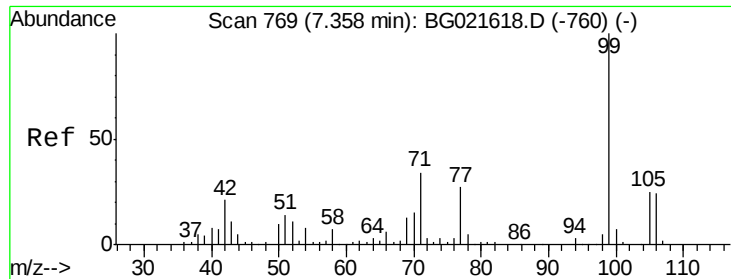
Ion Ratio Lower Upper

112 100

64 67.4 51.1 76.7

63 35.9 24.6 37.0





#7

Phenol-d6

Concen: 115.29 ng

RT: 7.368 min Scan# 77

Delta R.T. 0.010 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

Instrument :

BNA_G

ClientSampleId :

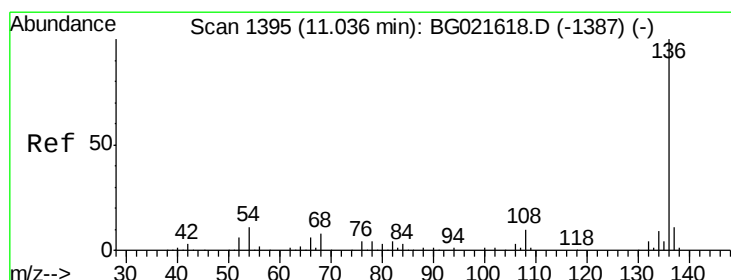
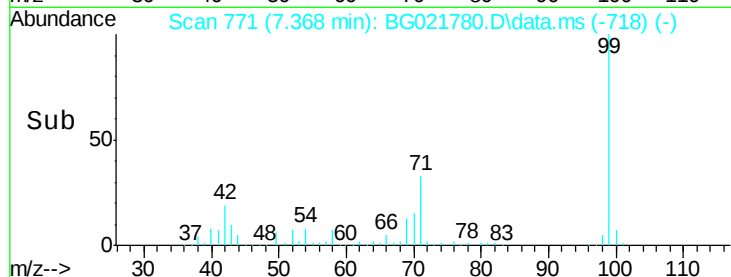
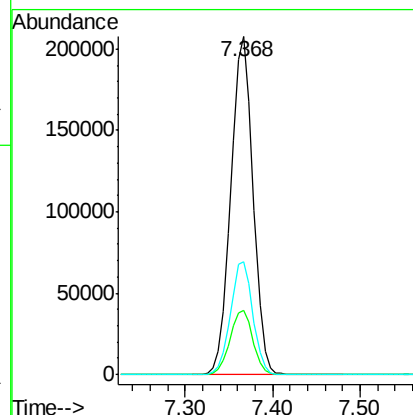
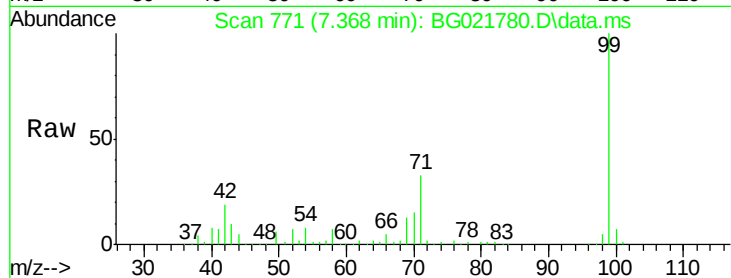
Tot Ion: 99 Resp: 361266

Ion Ratio Lower Upper

99 100

42 18.9 16.4 24.6

71 33.2 25.0 37.4



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 11.028 min Scan# 1394

Delta R.T. -0.008 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

Tgt Ion: 136 Resp: 158179

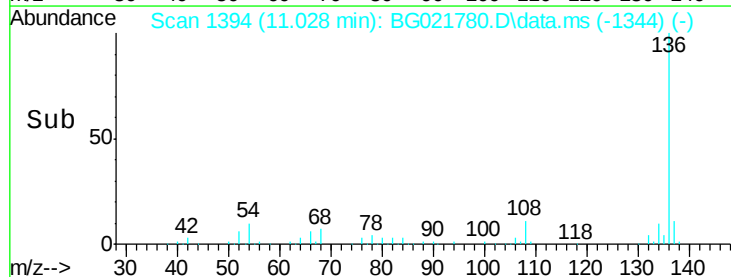
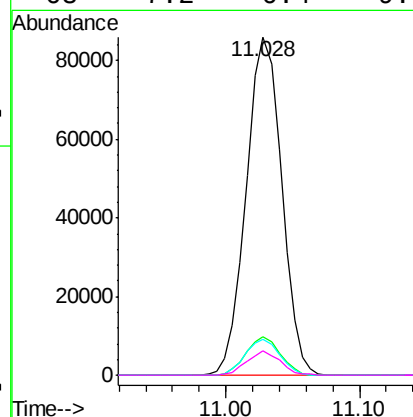
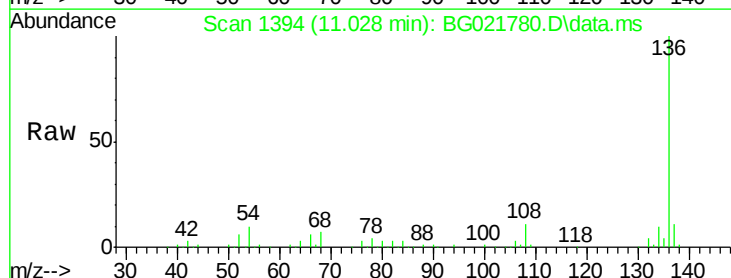
Ion Ratio Lower Upper

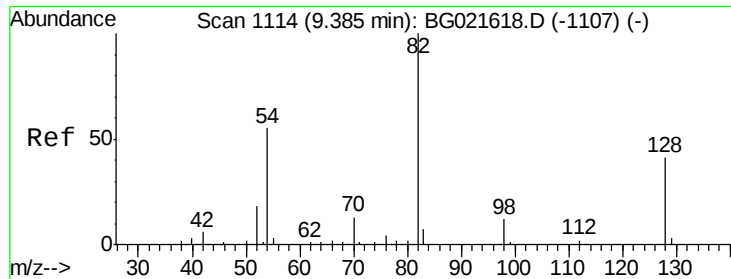
136 100

137 11.3 9.0 13.4

54 10.5 9.6 14.4

68 7.2 6.4 9.6





#23

Nitrobenzene-d5

Concen: 73.59 ng

RT: 9.377 min Scan# 1114

Delta R.T. -0.008 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

Instrument :

BNA_G

ClientSampled :

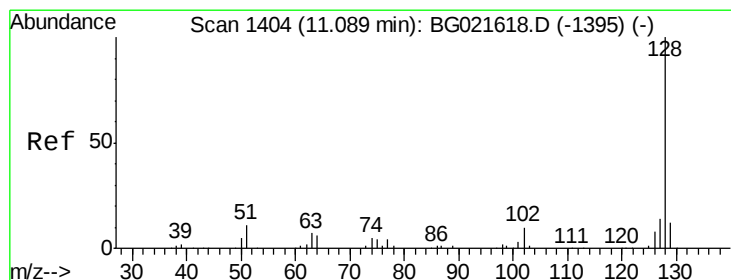
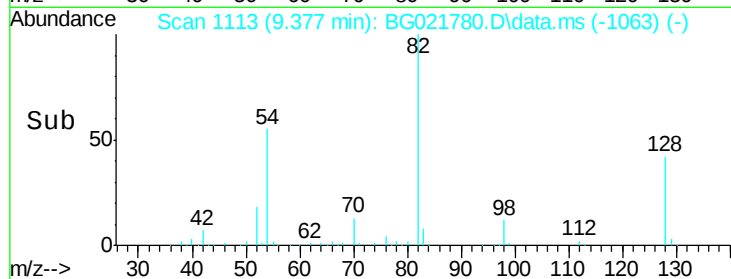
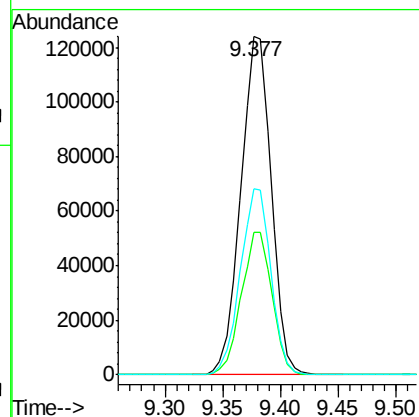
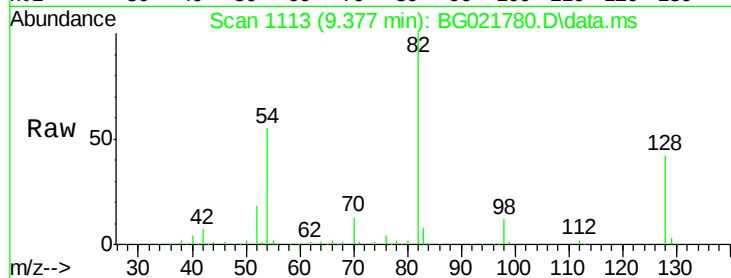
Tot Ion: 82 Resp: 226456

Ion Ratio Lower Upper

82 100

128 42.0 33.4 50.0

54 54.8 46.1 69.1



#31

Naphthalene

Concen: 2.59 ng

RT: 11.081 min Scan# 1403

Delta R.T. -0.008 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

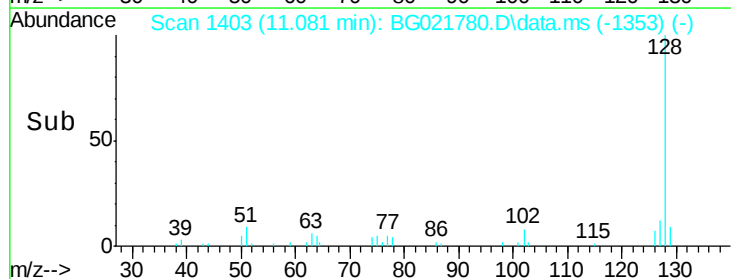
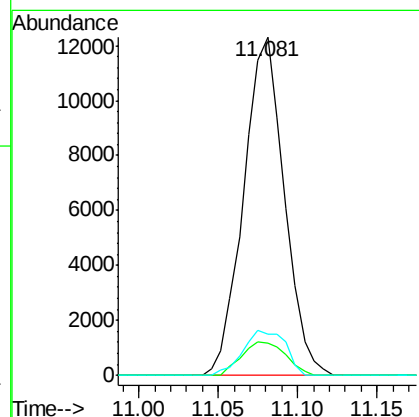
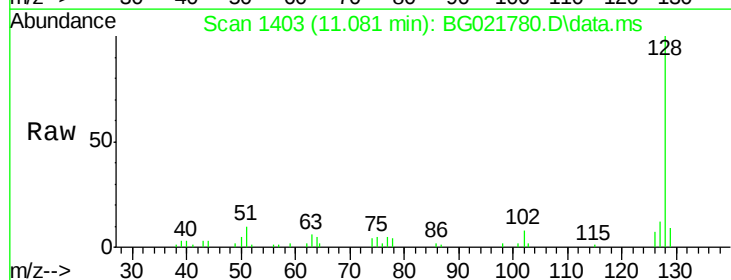
Tgt Ion: 128 Resp: 21910

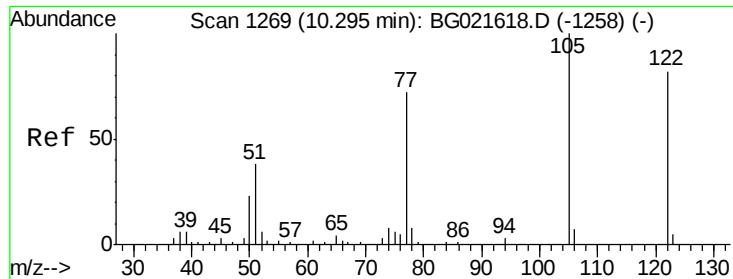
Ion Ratio Lower Upper

128 100

129 9.4 7.0 10.6

127 12.1 10.1 15.1

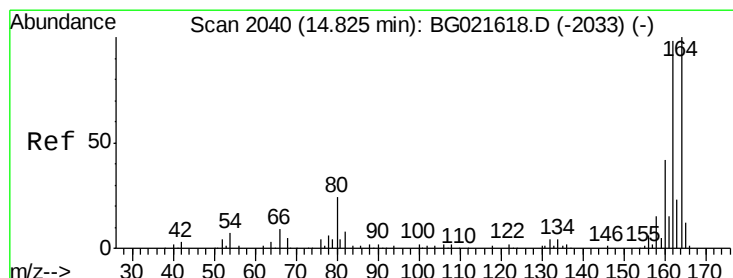
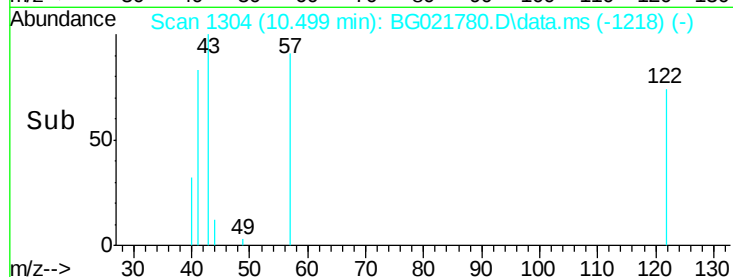
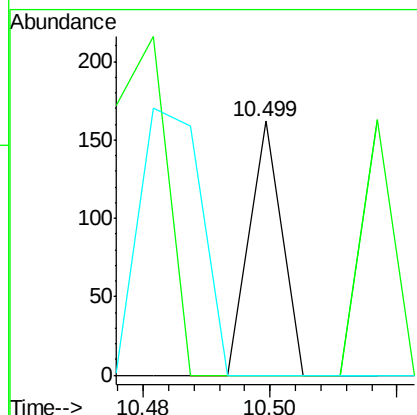
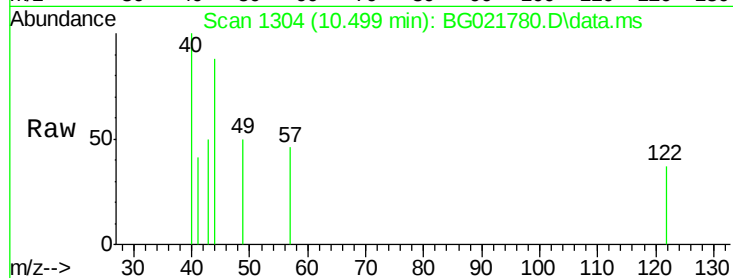




#32
Benzoic acid
Concen: 4.30 ng
RT: 10.499 min Scan# 13
Delta R.T. 0.204 min
Lab File: BG021780.D
Acq: 20 Apr 2016 11:47

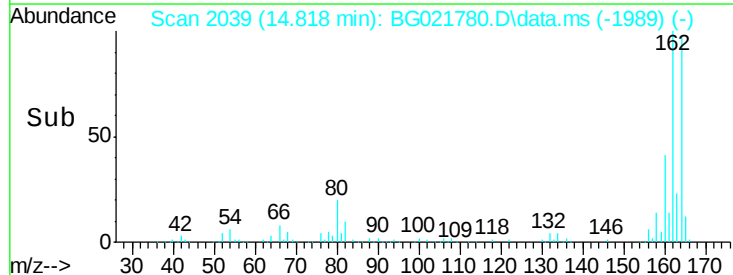
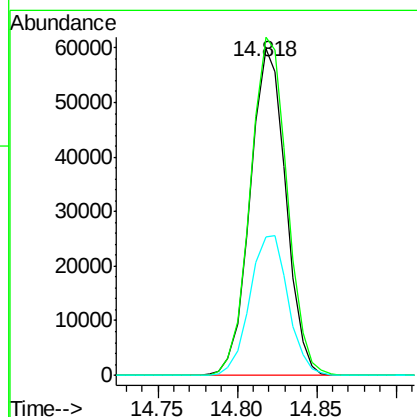
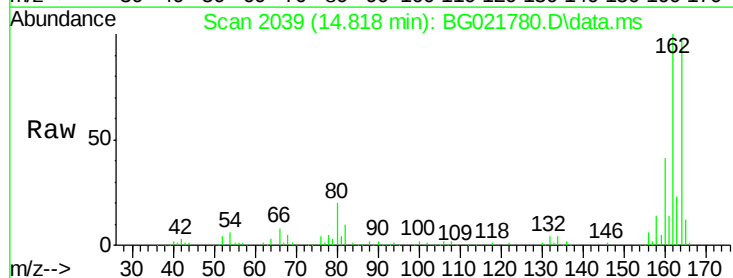
Instrument :
BNA_G
ClientSampleId :

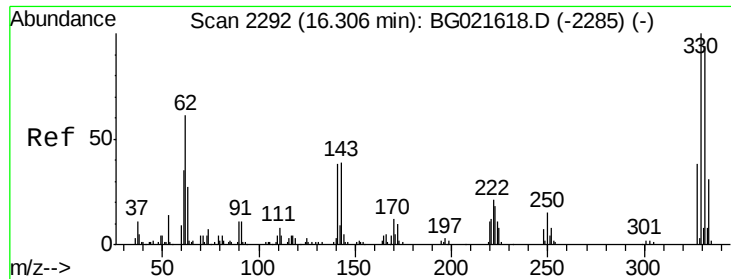
Tot Ion	Ratio	Lower	Upper
122	100		
105	0.0	104.5	144.5#
77	0.0	79.9	119.9#



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.818 min Scan# 2039
Delta R.T. -0.008 min
Lab File: BG021780.D
Acq: 20 Apr 2016 11:47

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.4	78.0	117.0
160	42.3	32.9	49.3

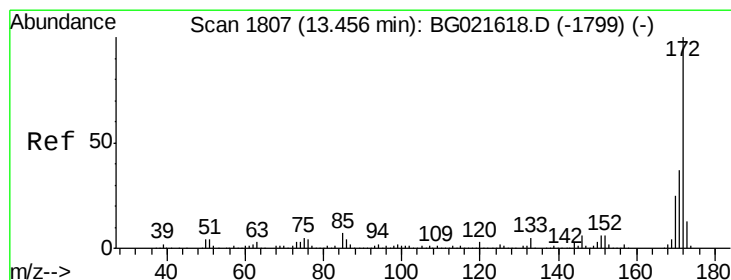
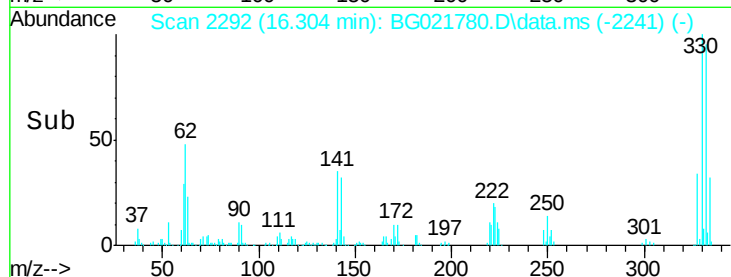
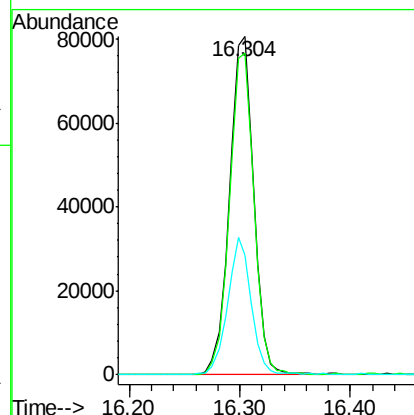
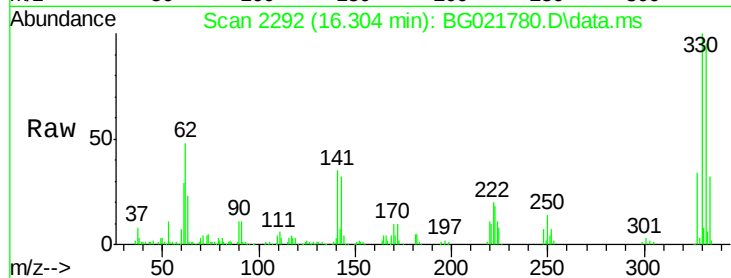




#41
 2,4,6-Tribromophenol
 Concen: 122.98 ng
 RT: 16.304 min Scan# 22
 Delta R.T. -0.002 min
 Lab File: BG021780.D
 Acq: 20 Apr 2016 11:47

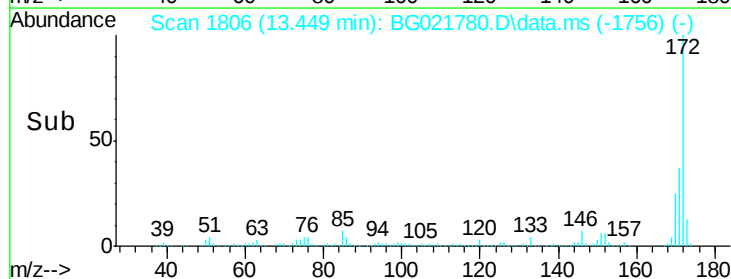
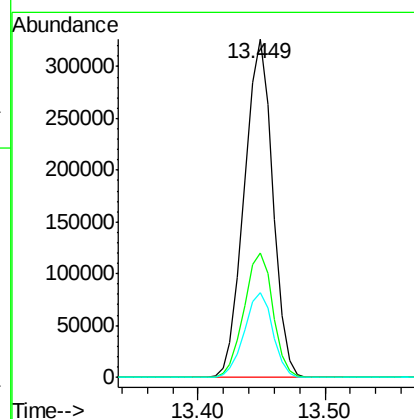
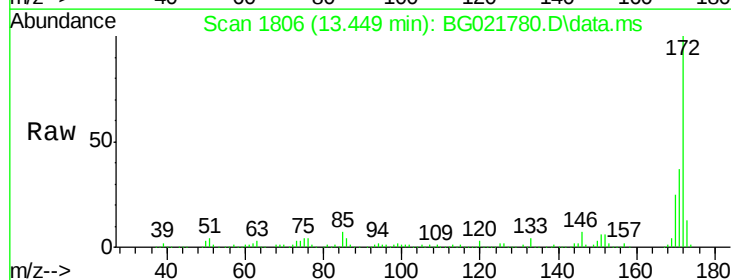
Instrument :
 BNA_G
 ClientSampleId :

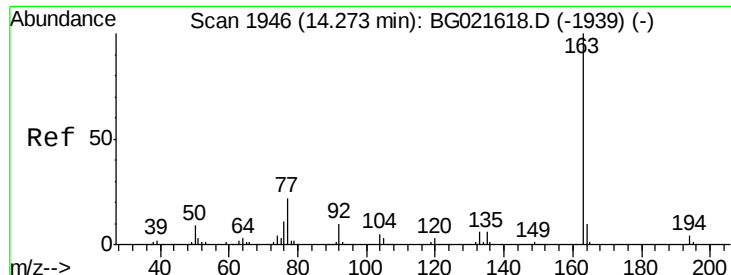
Tot Ion	Ratio	Lower	Upper
330	100		
332	95.9	78.0	117.0
141	39.3	33.8	50.8



#44
 2-Fluorobiphenyl
 Concen: 79.41 ng
 RT: 13.449 min Scan# 1806
 Delta R.T. -0.008 min
 Lab File: BG021780.D
 Acq: 20 Apr 2016 11:47

Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.0	27.8	41.6
170	25.1	19.6	29.4





#49

Dimethylphthalate

Concen: 6.62 ng

RT: 14.260 min Scan# 19

Delta R.T. -0.014 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

Instrument :

BNA_G

ClientSampleId :

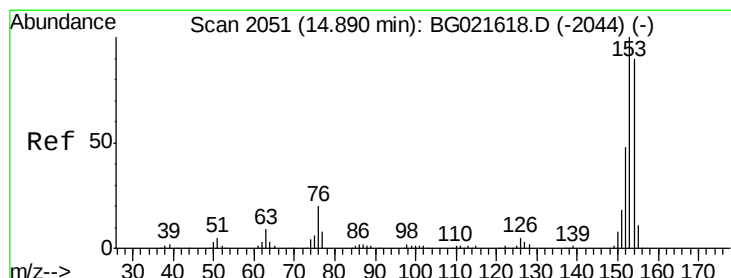
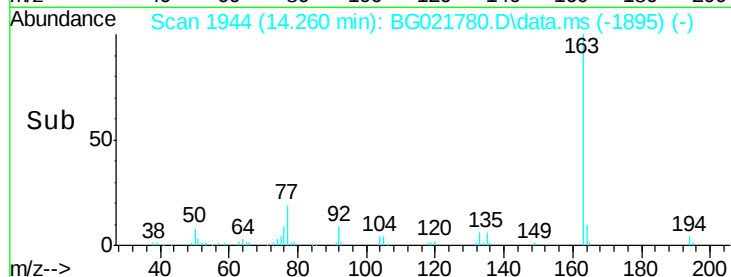
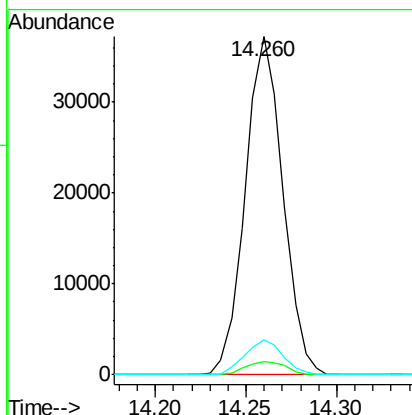
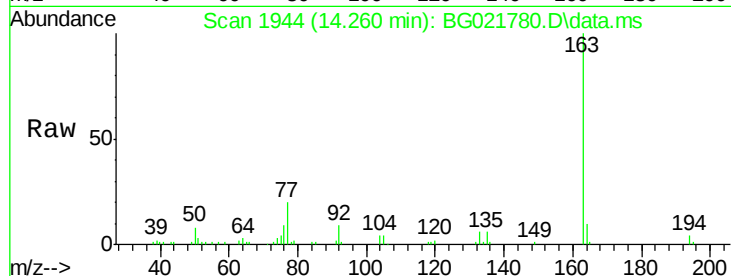
Tot Ion:163 Resp: 53444

Ion Ratio Lower Upper

163 100

194 3.8 3.0 4.6

164 10.4 8.1 12.1



#51

Acenaphthene

Concen: 3.59 ng

RT: 14.882 min Scan# 2050

Delta R.T. -0.008 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

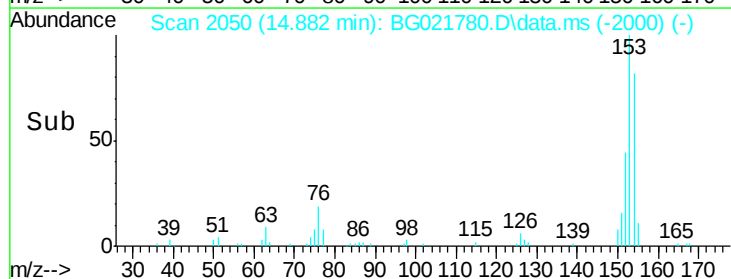
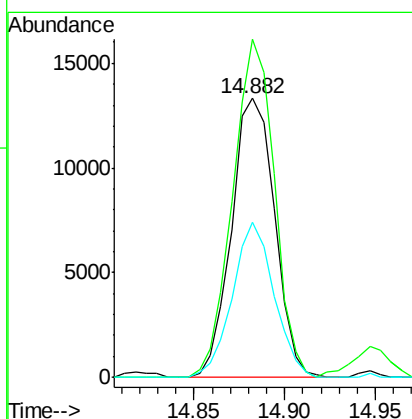
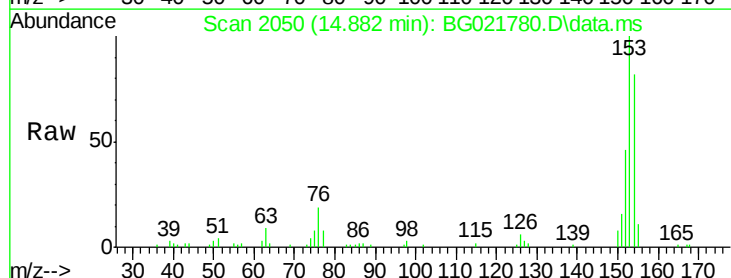
Tgt Ion:154 Resp: 22100

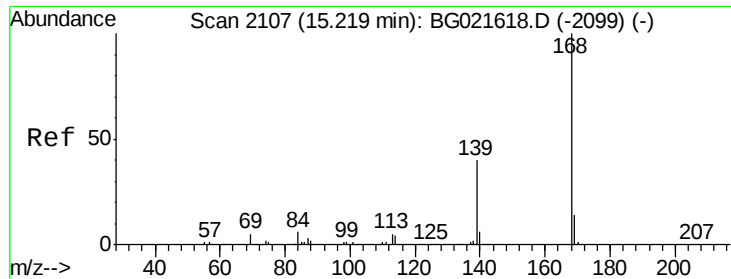
Ion Ratio Lower Upper

154 100

153 121.3 91.9 137.9

152 55.8 42.0 63.0





#54

Dibenzofuran

Concen: 2.42 ng

RT: 15.211 min Scan# 2106

Delta R.T. -0.008 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

Instrument :

BNA_G

ClientSampleId :

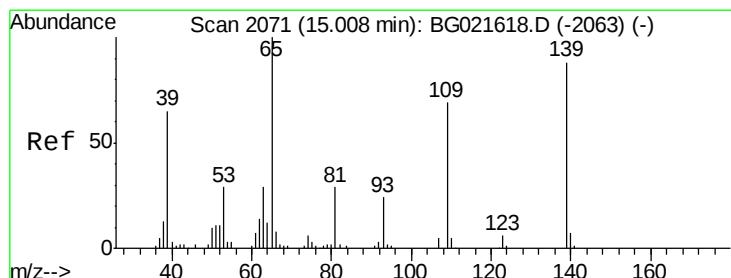
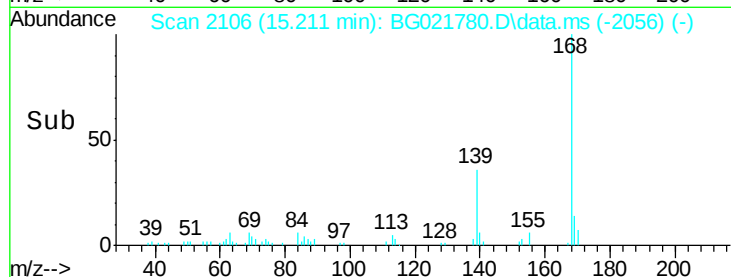
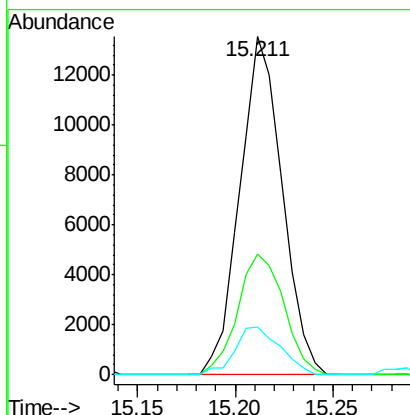
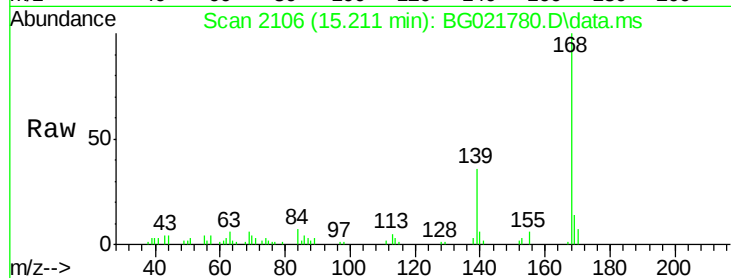
Tot Ion:168 Resp: 20290

Ion Ratio Lower Upper

168 100

139 35.6 31.1 46.7

169 14.0 11.0 16.6



#55

4-Nitrophenol

Concen: 5.39 ng

RT: 15.211 min Scan# 2106

Delta R.T. 0.204 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

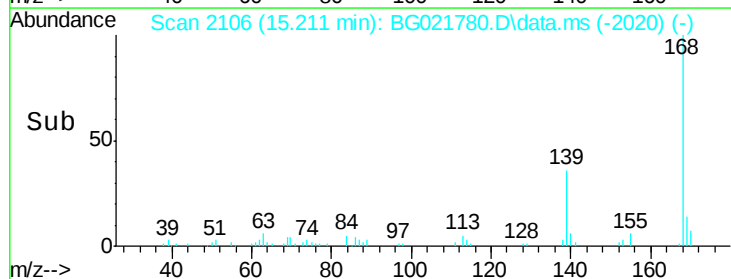
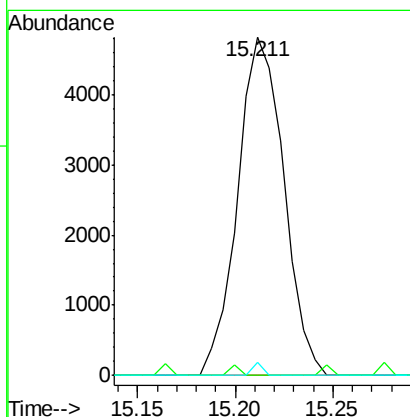
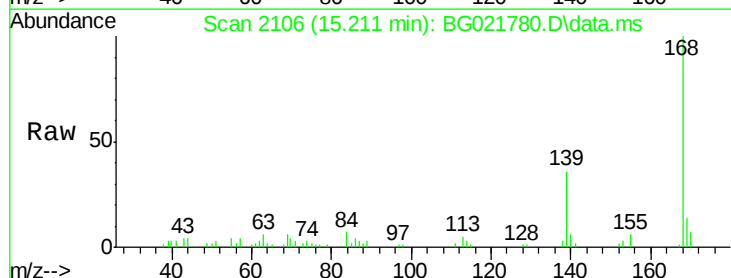
Tgt Ion:139 Resp: 7880

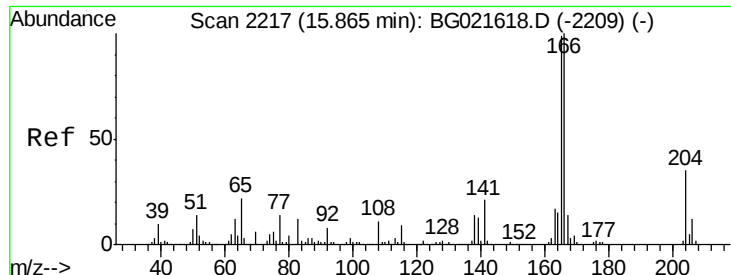
Ion Ratio Lower Upper

139 100

109 0.0 49.2 89.2#

65 3.9 83.2 123.2#





#57

Fluorene

Concen: 3.54 ng

RT: 15.864 min Scan# 2217

Delta R.T. -0.002 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

Instrument :

BNA_G

ClientSampleId :

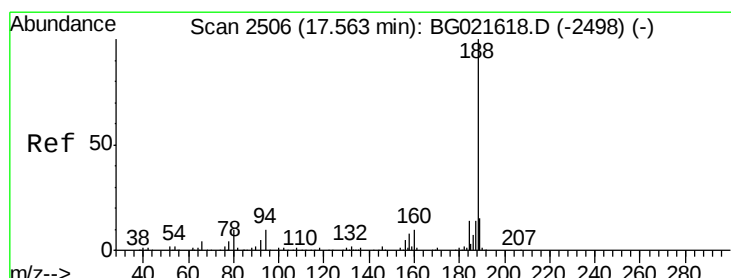
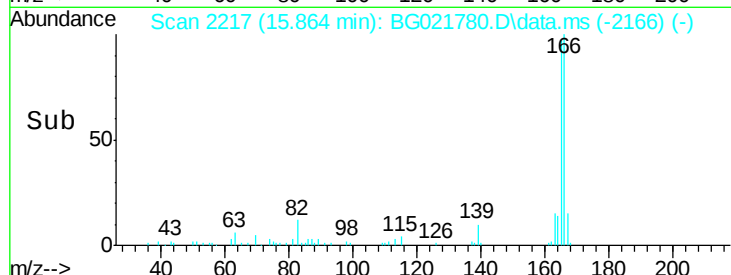
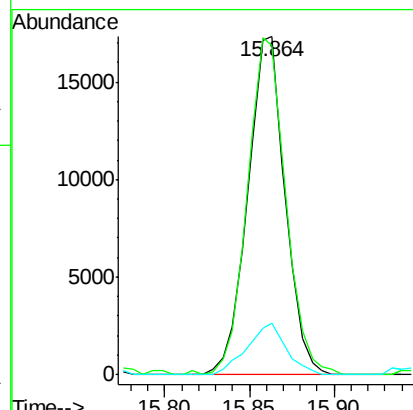
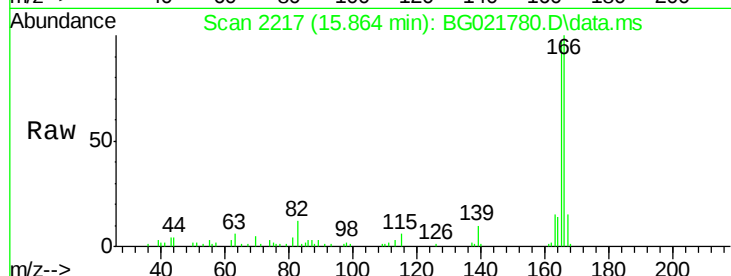
Tot Ion:166 Resp: 26574

Ion Ratio Lower Upper

166 100

165 97.2 79.0 118.4

167 15.1 10.7 16.1



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.556 min Scan# 2505

Delta R.T. -0.008 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

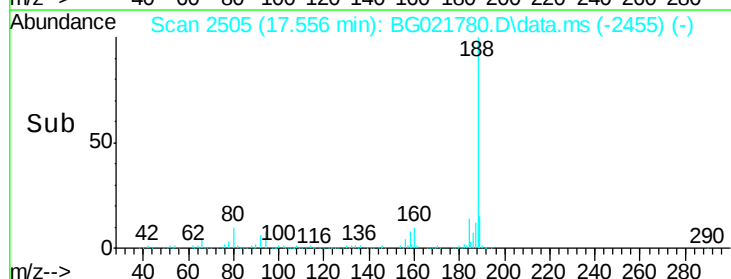
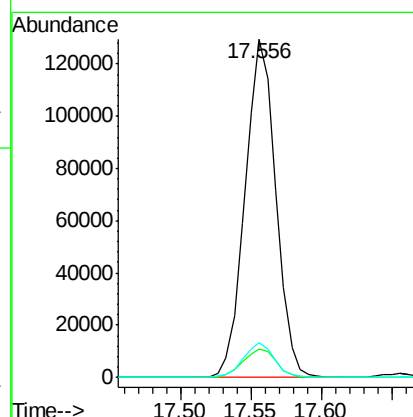
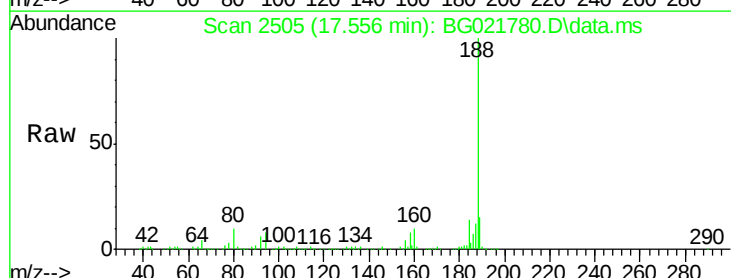
Tgt Ion:188 Resp: 196911

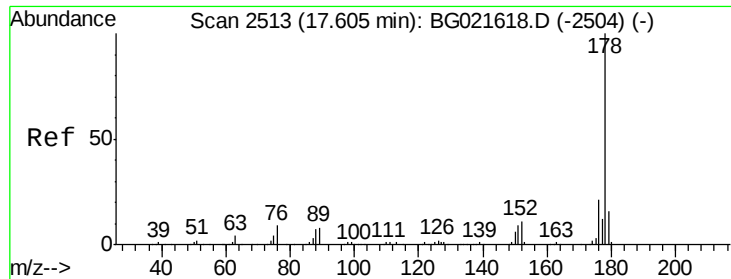
Ion Ratio Lower Upper

188 100

94 8.5 7.5 11.3

80 10.3 8.6 13.0





#70

Phenanthrene

Concen: 35.29 ng

RT: 17.603 min Scan# 2513

Delta R.T. -0.002 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

Instrument :

BNA_G

ClientSampleId :

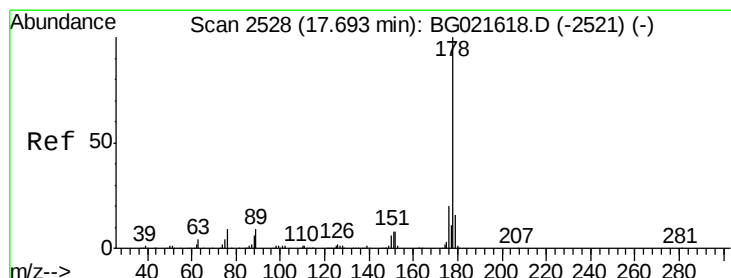
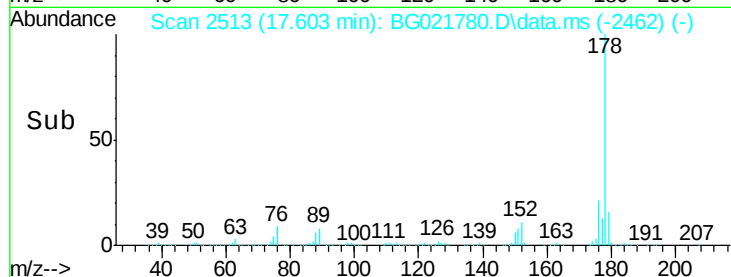
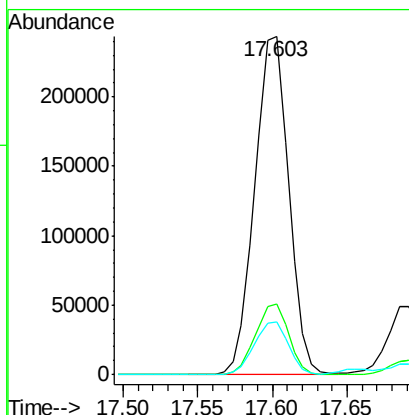
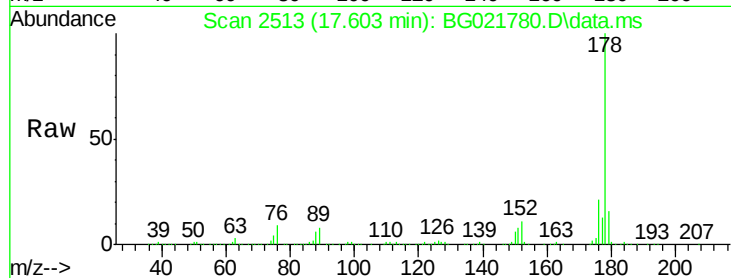
Tot Ion:178 Resp: 382987

Ion Ratio Lower Upper

178 100

176 20.7 16.2 24.4

179 15.7 12.0 18.0



#71

Anthracene

Concen: 6.97 ng

RT: 17.685 min Scan# 2527

Delta R.T. -0.008 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

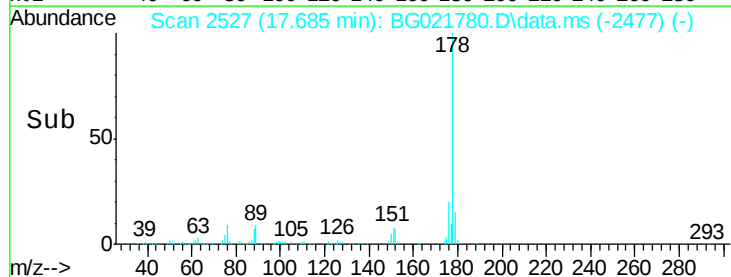
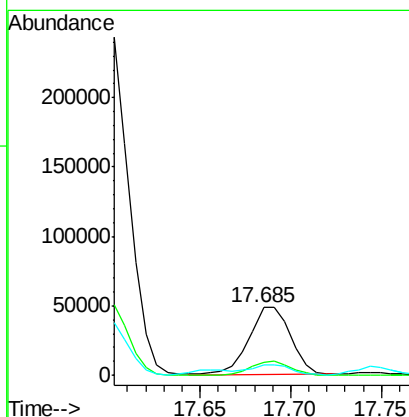
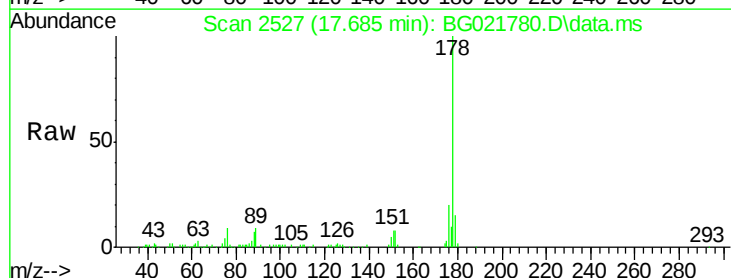
Tgt Ion:178 Resp: 76752

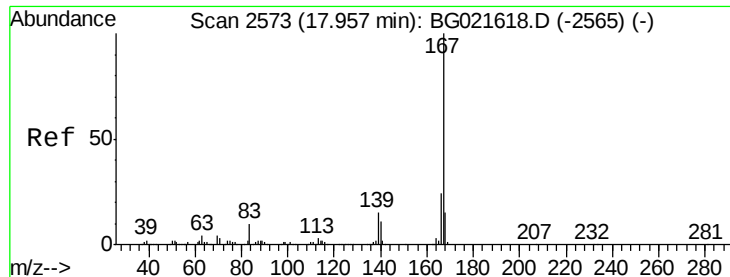
Ion Ratio Lower Upper

178 100

176 19.8 15.0 22.4

179 15.4 12.2 18.4

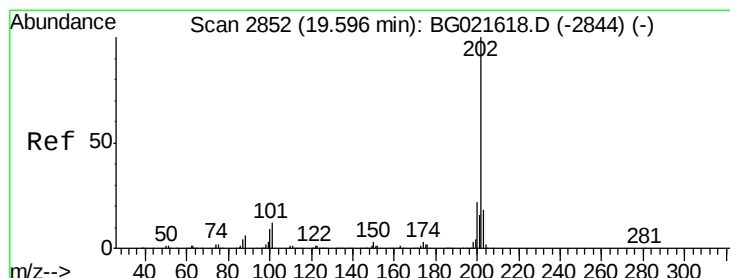
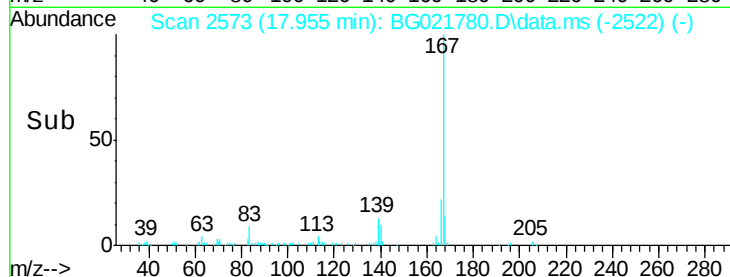
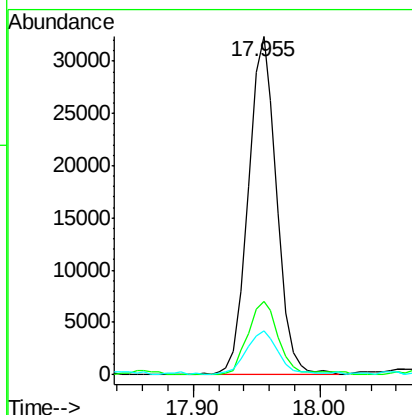
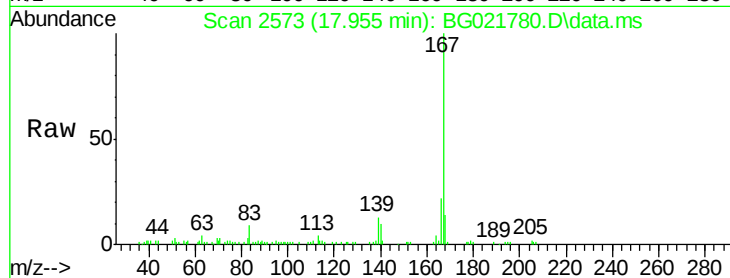




#72
 Carbazole
 Concen: 4.88 ng
 RT: 17.955 min Scan# 2573
 Delta R.T. -0.002 min
 Lab File: BG021780.D
 Acq: 20 Apr 2016 11:47

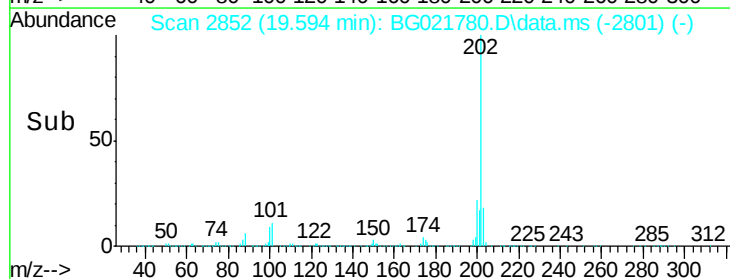
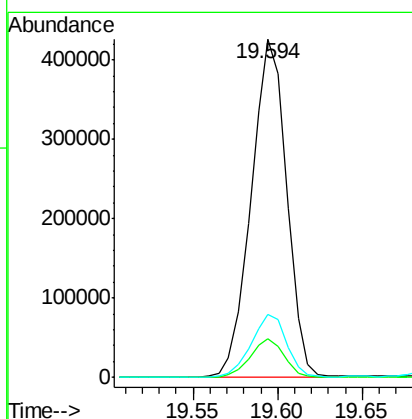
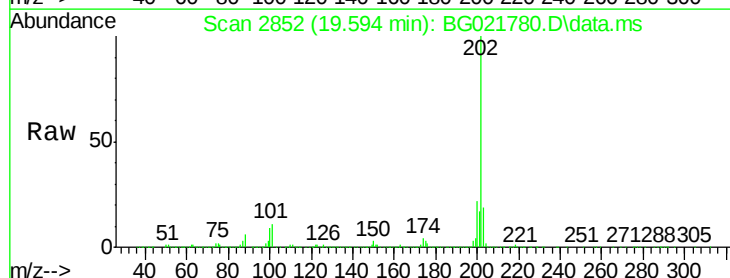
Instrument :
 BNA_G
 ClientSampleId :

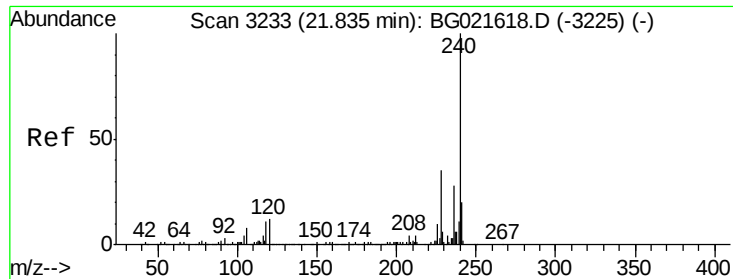
Tot Ion	Ratio	Lower	Upper
167	100		
166	21.7	18.6	27.8
139	12.8	10.6	15.8



#74
 Fluoranthene
 Concen: 47.85 ng
 RT: 19.594 min Scan# 2852
 Delta R.T. -0.002 min
 Lab File: BG021780.D
 Acq: 20 Apr 2016 11:47

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.3	0.0	31.0
203	18.6	0.0	37.9





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.833 min Scan# 32

Delta R.T. -0.002 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

Instrument :

BNA_G

ClientSampleId :

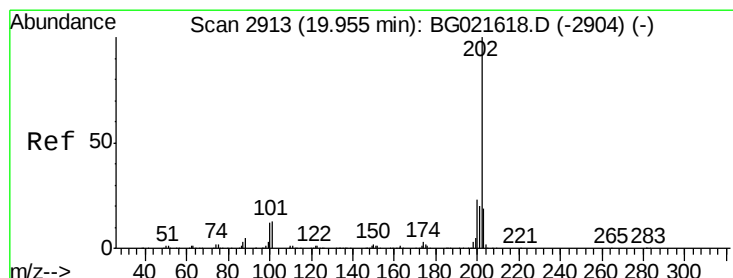
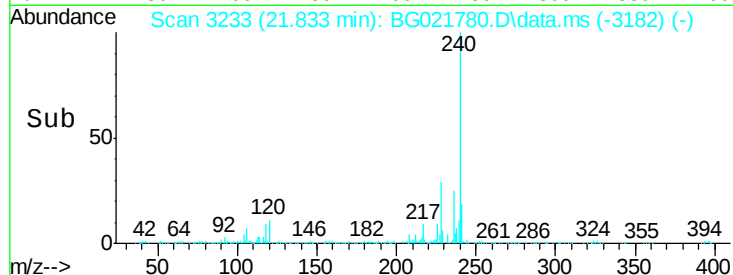
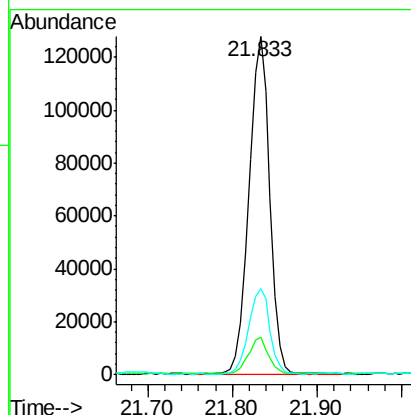
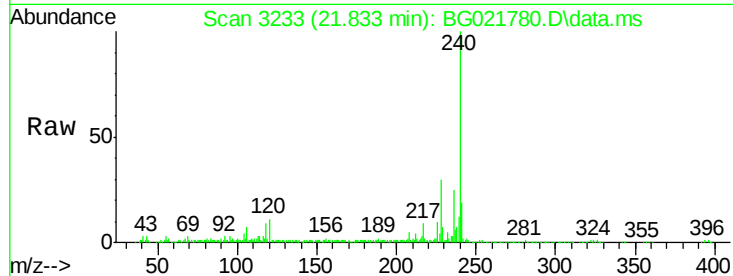
Tot Ion:240 Resp: 217887

Ion Ratio Lower Upper

240 100

120 11.0 8.4 12.6

236 25.3 19.6 29.4



#77

Pyrene

Concen: 42.13 ng

RT: 19.953 min Scan# 2913

Delta R.T. -0.002 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

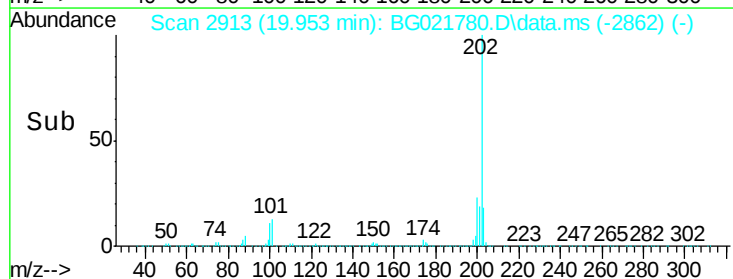
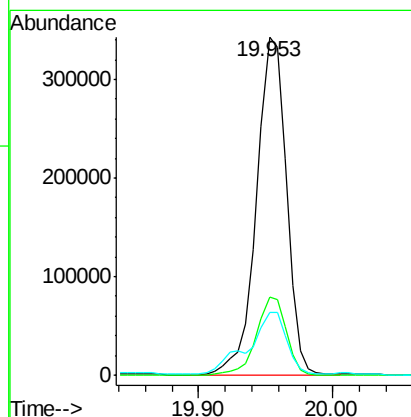
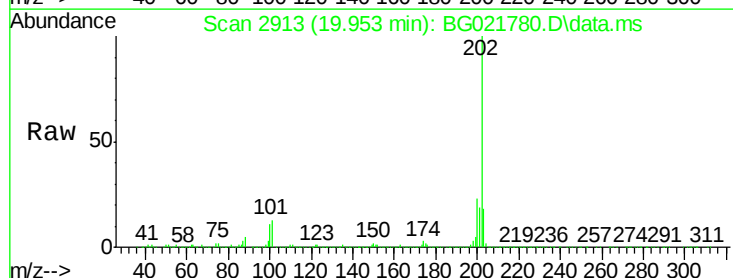
Tgt Ion:202 Resp: 529306

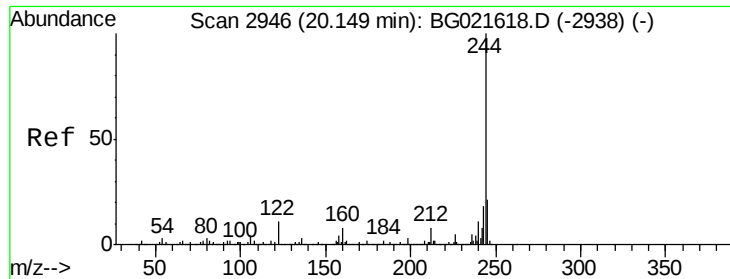
Ion Ratio Lower Upper

202 100

200 23.2 18.2 27.2

203 18.4 15.0 22.4





#78

Terphenyl-d14

Concen: 68.75 ng

RT: 20.141 min Scan# 29

Delta R.T. -0.008 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

Instrument :

BNA_G

ClientSampleId :

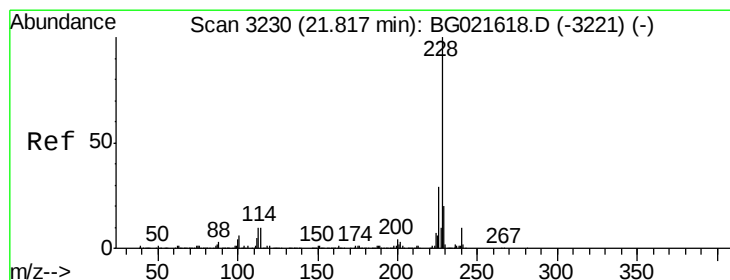
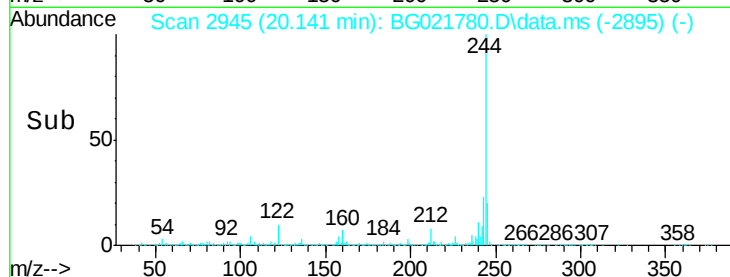
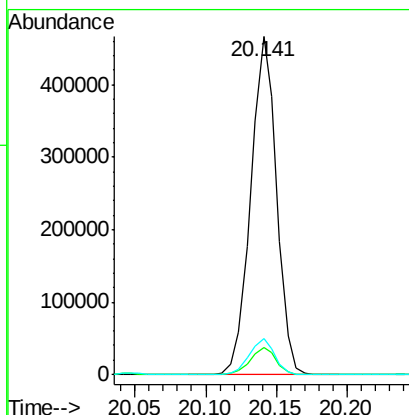
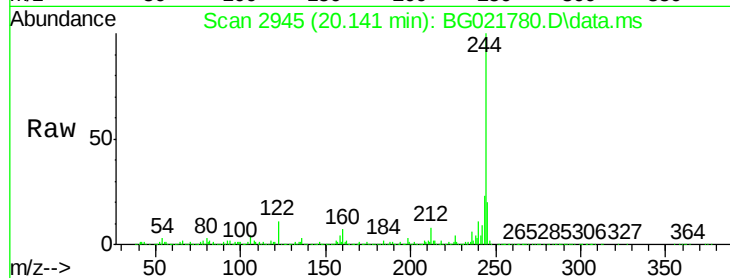
Tot Ion:244 Resp: 600342

Ion Ratio Lower Upper

244 100

212 8.0 6.5 9.7

122 10.5 8.6 12.8



#80

Benzo(a)anthracene

Concen: 26.33 ng

RT: 21.810 min Scan# 3229

Delta R.T. -0.008 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

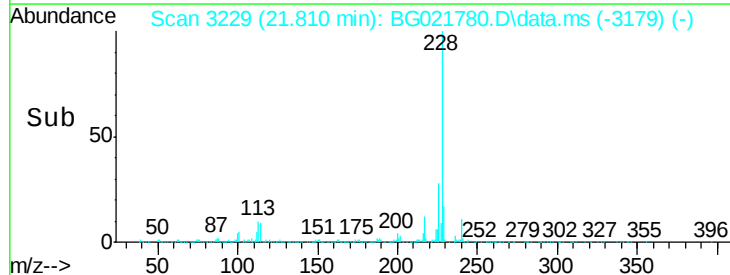
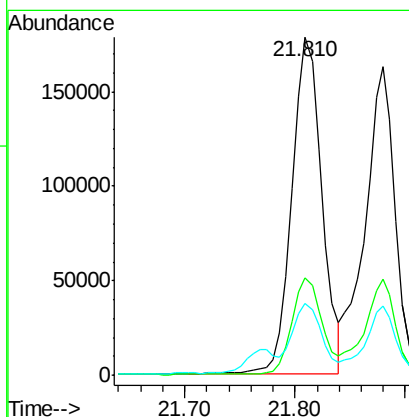
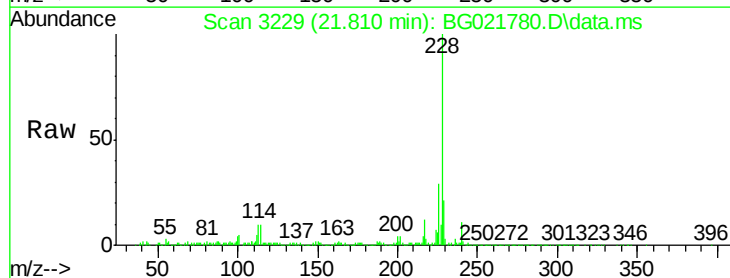
Tgt Ion:228 Resp: 330140

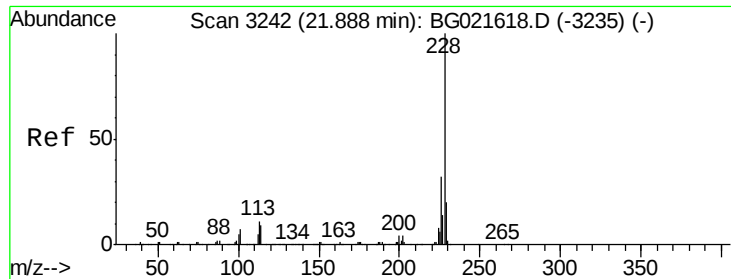
Ion Ratio Lower Upper

228 100

226 28.8 22.6 34.0

229 21.3 16.1 24.1





#82

Chrysene

Concen: 25.67 ng

RT: 21.880 min Scan# 32

Delta R.T. -0.008 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

Instrument :

BNA_G

ClientSampleId :

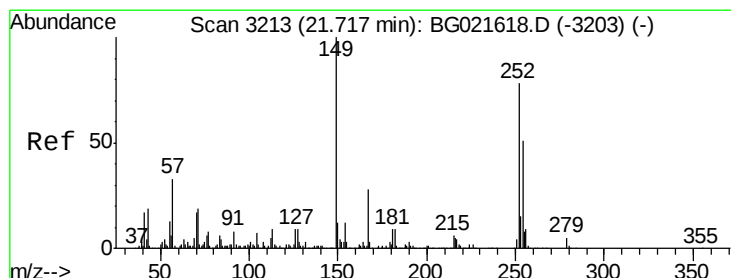
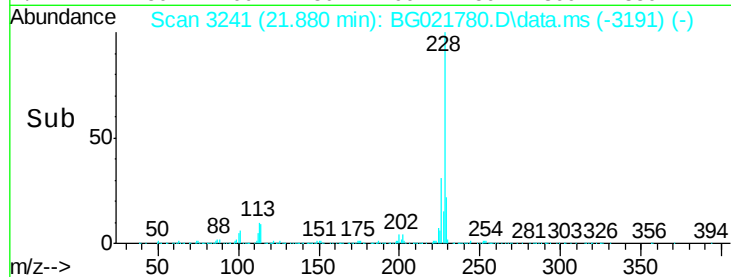
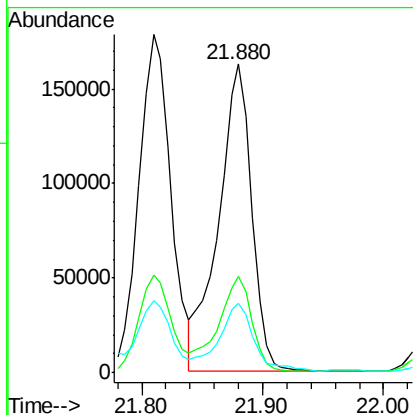
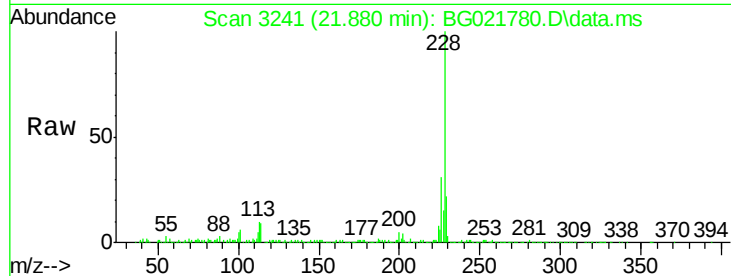
Tot Ion:228 Resp: 309223

Ion Ratio Lower Upper

228 100

226 31.1 25.4 38.0

229 22.4 15.9 23.9



#83

Bis(2-ethylhexyl)phthalate

Concen: 7.34 ng

RT: 21.692 min Scan# 3209

Delta R.T. -0.025 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

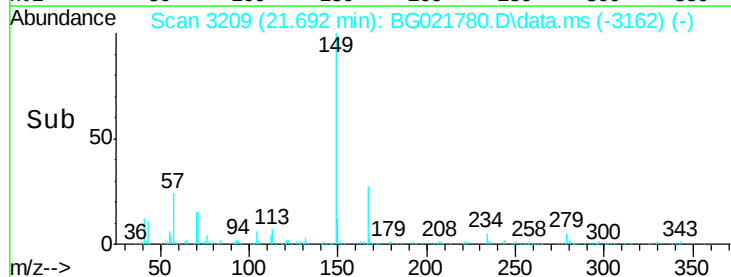
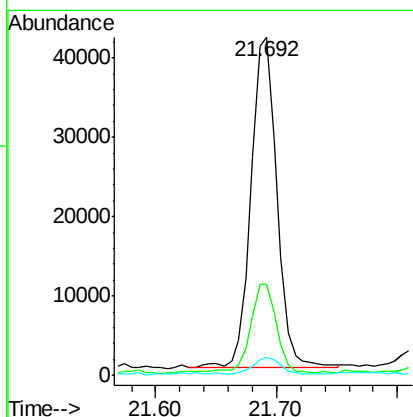
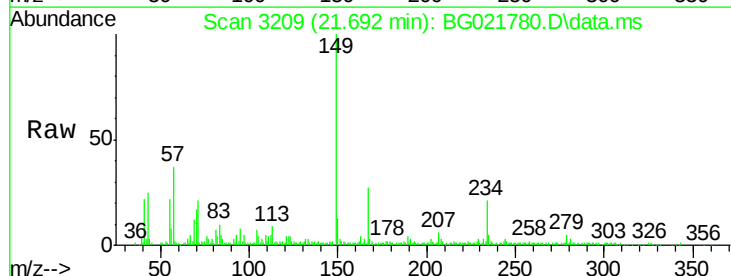
Tgt Ion:149 Resp: 62610

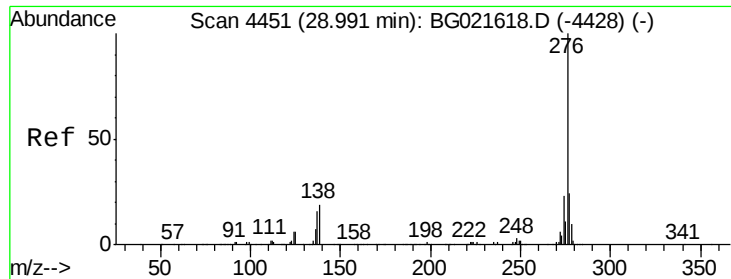
Ion Ratio Lower Upper

149 100

167 26.9 22.4 33.6

279 5.3 3.2 4.8#

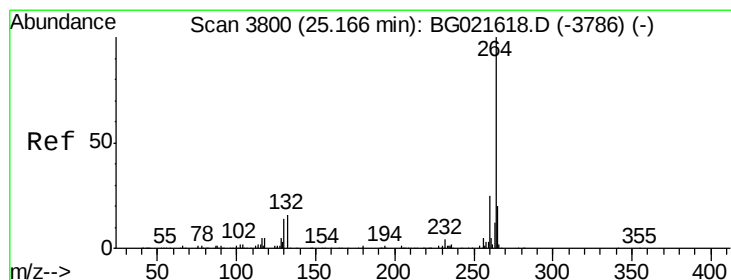
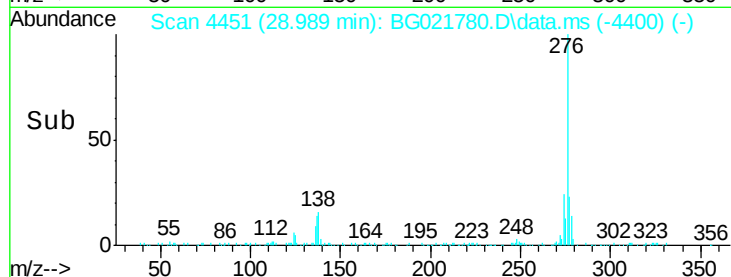
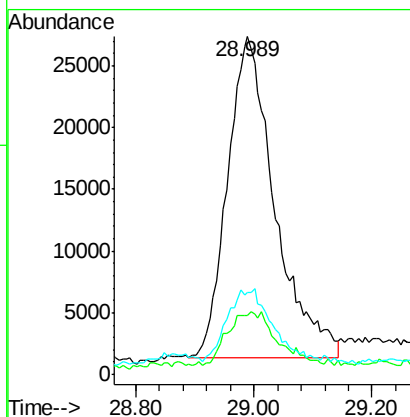
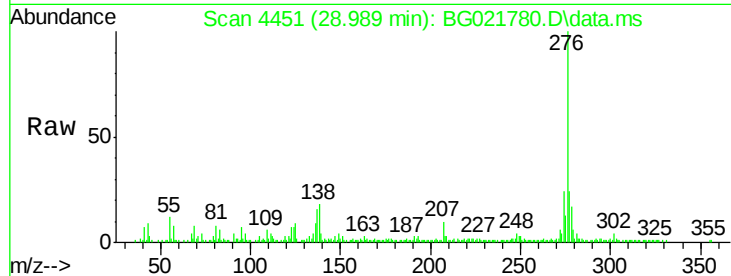




#85
Indeno(1,2,3-cd)pyrene
Concen: 10.17 ng
RT: 28.989 min Scan# 44
Delta R.T. -0.002 min
Lab File: BG021780.D
Acq: 20 Apr 2016 11:47

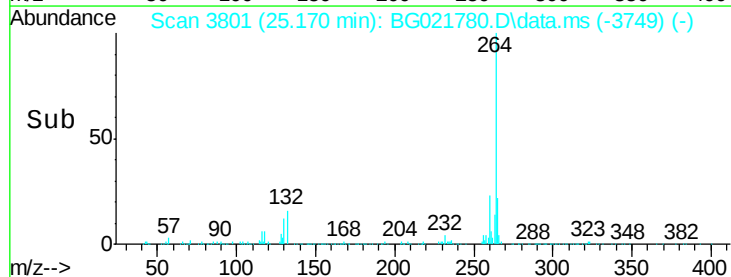
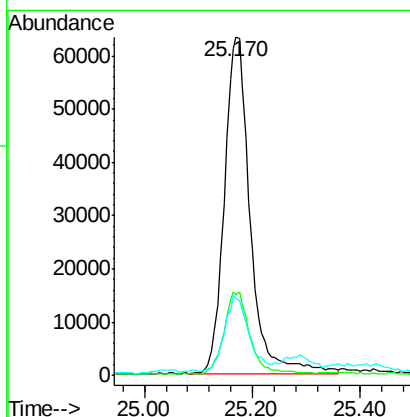
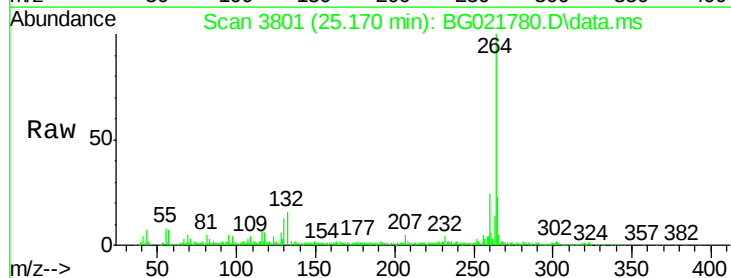
Instrument :
BNA_G
ClientSampleId :

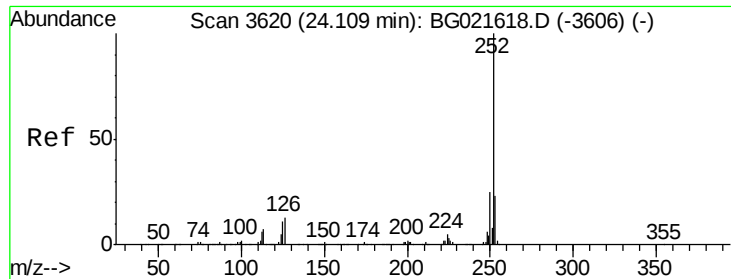
Tot Ion	Ratio	Lower	Upper
276	100		
138	18.0	14.0	21.0
277	21.2	20.6	30.8



#86
Perylene-d12
Concen: 20.00 ng
RT: 25.170 min Scan# 3801
Delta R.T. 0.004 min
Lab File: BG021780.D
Acq: 20 Apr 2016 11:47

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.8	20.2	30.4
265	22.6	17.8	26.8





#87

Benzo(b)fluoranthene

Concen: 32.59 ng

RT: 24.107 min Scan# 3620

Delta R.T. -0.002 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

Instrument :

BNA_G

ClientSampleId :

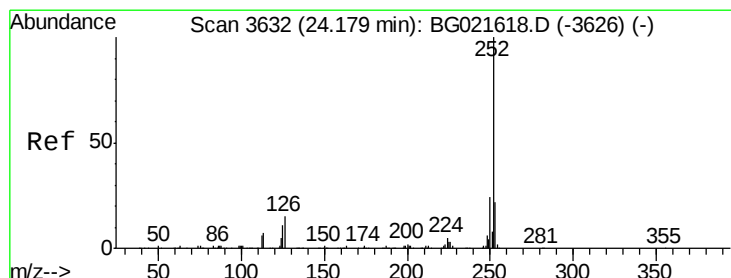
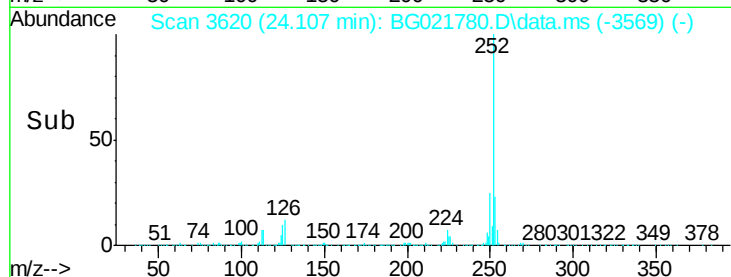
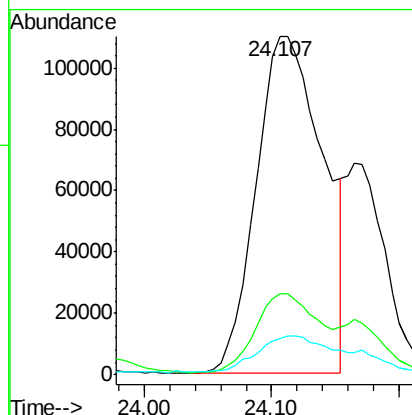
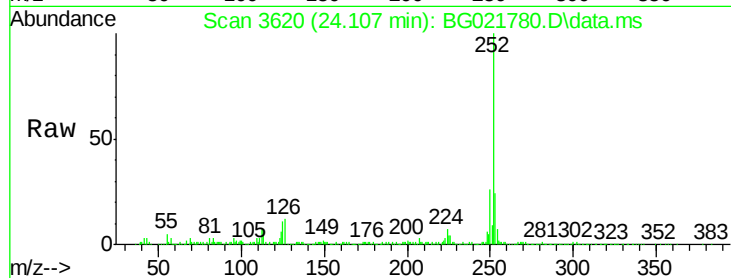
Tot Ion:252 Resp: 403523

Ion Ratio Lower Upper

252 100

253 23.8 17.5 26.3

125 10.6 8.6 13.0



#88

Benzo(k)fluoranthene

Concen: 33.31 ng

RT: 24.107 min Scan# 3620

Delta R.T. -0.072 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

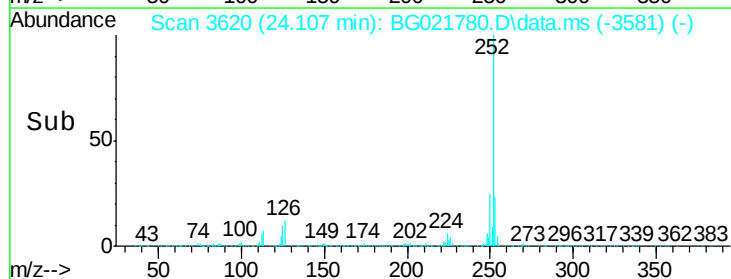
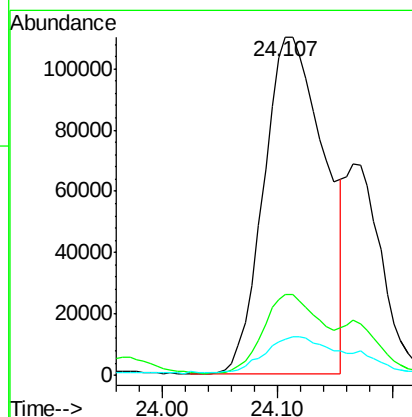
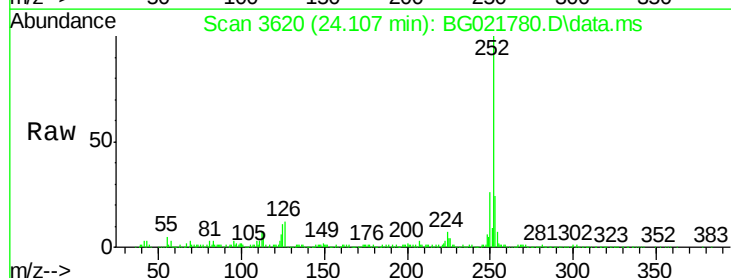
Tgt Ion:252 Resp: 403384

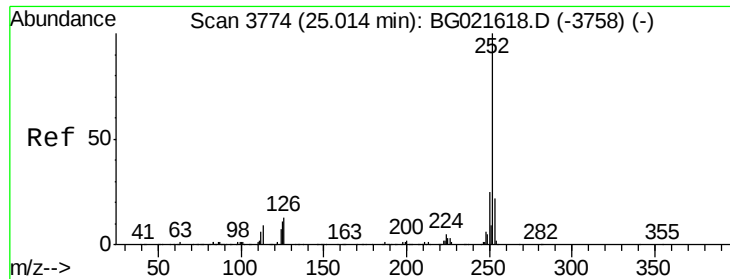
Ion Ratio Lower Upper

252 100

253 23.8 17.8 26.8

125 10.6 8.3 12.5





#89

Benzo(a)pyrene

Concen: 22.80 ng

RT: 25.018 min Scan# 37

Delta R.T. 0.004 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

Instrument :

BNA_G

ClientSampleId :

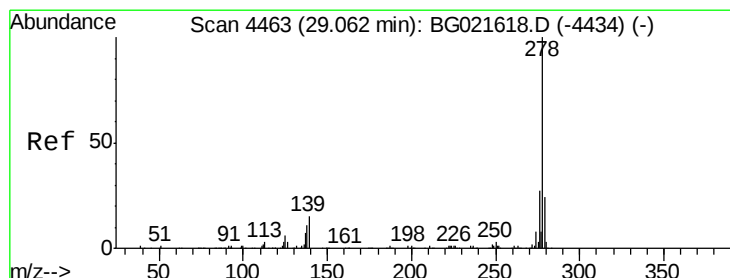
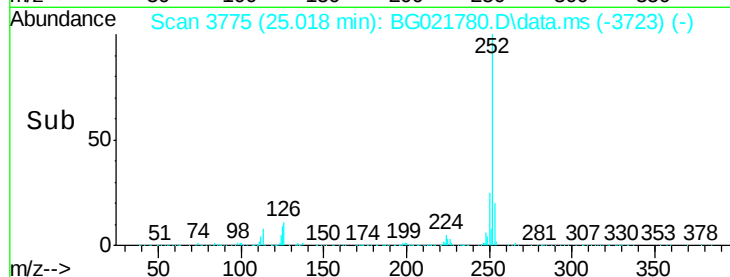
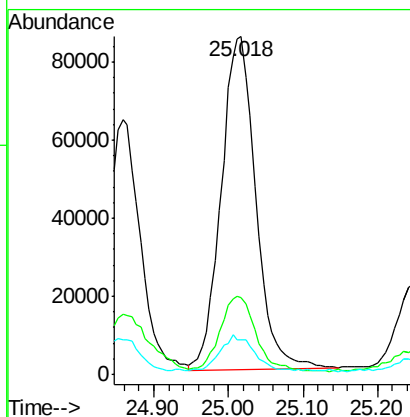
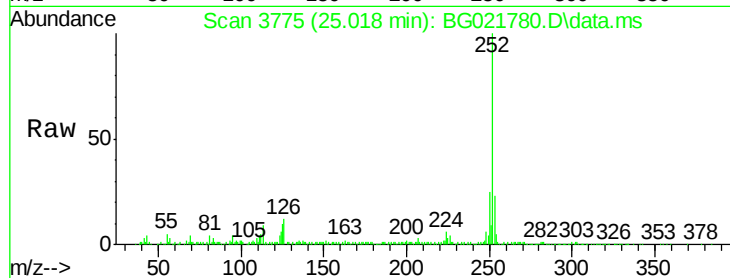
Tot Ion:252 Resp: 273509

Ion Ratio Lower Upper

252 100

253 22.9 17.1 25.7

125 10.3 9.6 14.4



#90

Dibenzo(a,h)anthracene

Concen: 3.18 ng

RT: 29.030 min Scan# 4458

Delta R.T. -0.031 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

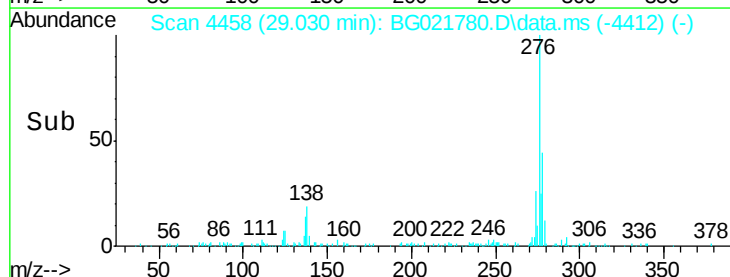
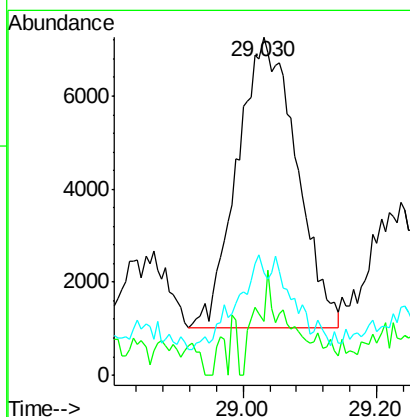
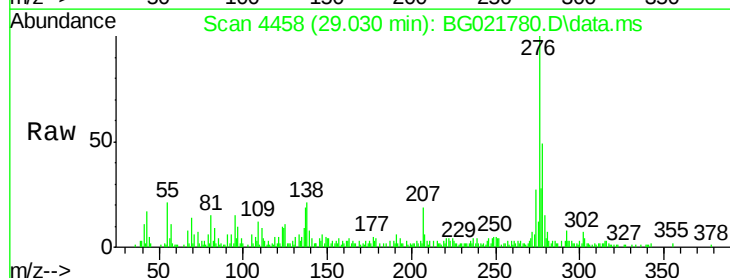
Tgt Ion:278 Resp: 38237

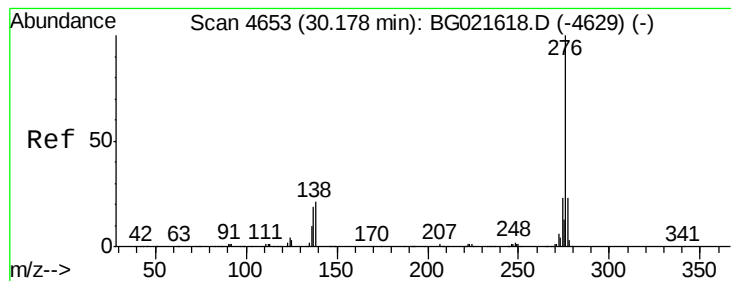
Ion Ratio Lower Upper

278 100

139 15.8 11.9 17.9

279 30.2 18.2 27.2#





#91
 Benzo(a,h,i)perylene
 Concen: 11.64 ng
 RT: 30.200 min Scan# 46
 Delta R.T. 0.022 min
 Lab File: BG021780.D
 Acq: 20 Apr 2016 11:47

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.4	29.2
138	18.4	17.4	26.0

