

Data Path : Z:\HPCHEM1\BNA G\Data\BG060916\
 Data File : BG022267.D
 Acq On : 9 Jun 2016 13:53
 Operator : UM/SJ
 Sample : H3402-13 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SS-46

Quant Time: Jun 09 15:41:48 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG060616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 06 16:12:45 2016
 Response via : Initial Calibration

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

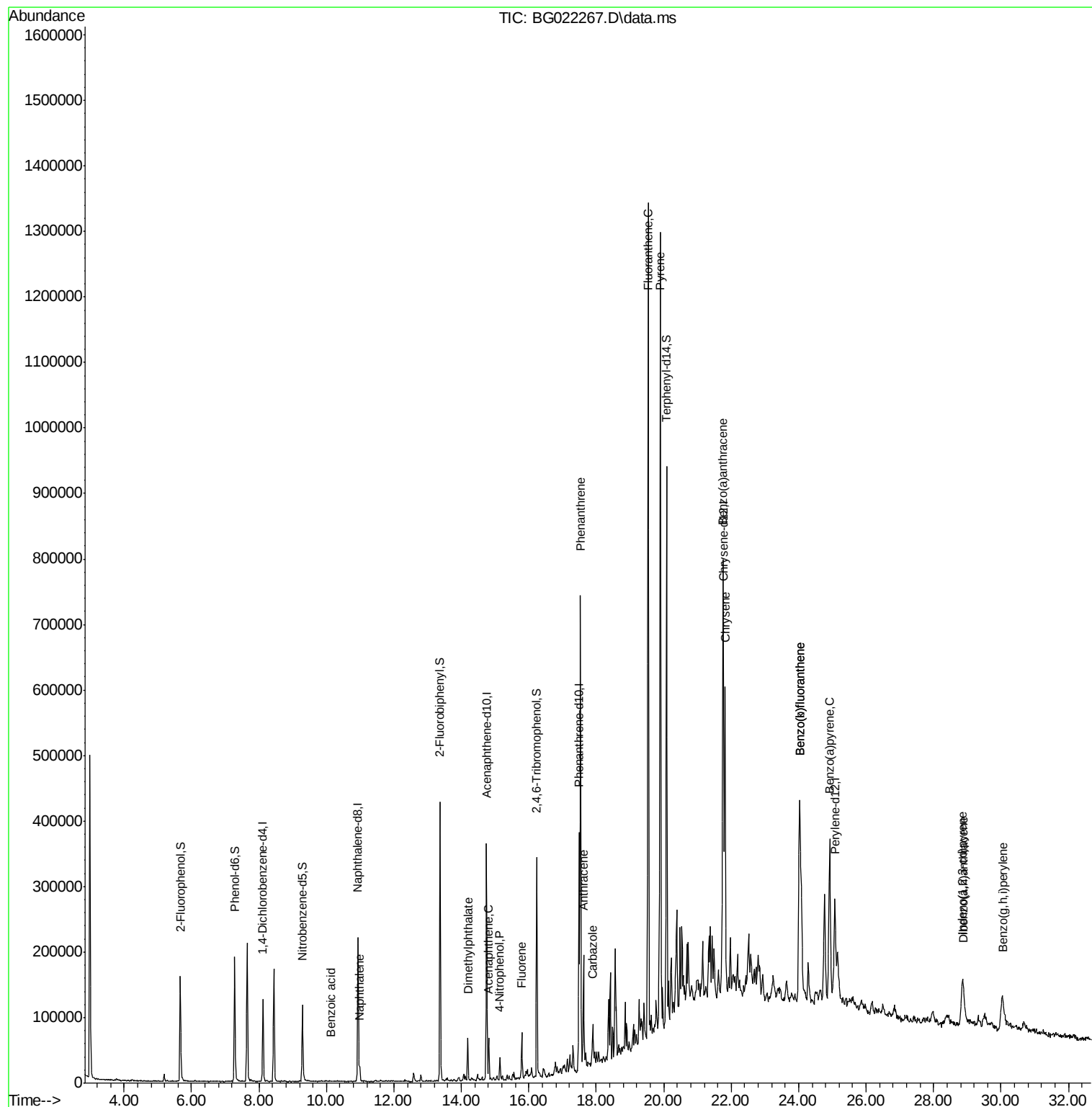
Internal Standards							
1) 1,4-Dichlorobenzene-d4	8.120	152	46916	20.00	ng	0.00	
21) Naphthalene-d8	10.935	136	239304	20.00	ng	0.00	
38) Acenaphthene-d10	14.748	164	132708	20.00	ng	0.00	
63) Phenanthrene-d10	17.492	188	248710	20.00	ng	0.00	
75) Chrysene-d12	21.769	240	209607	20.00	ng	0.00	
86) Perylene-d12	25.077	264	197782	20.00	ng	0.02	
System Monitoring Compounds							
5) 2-Fluorophenol	5.664	112	108668	44.78	ng	0.00	
7) Phenol-d6	7.280	99	172859	45.31	ng	0.00	
23) Nitrobenzene-d5	9.289	82	98965	28.83	ng	0.00	
41) 2,4,6-Tribromophenol	16.234	330	74883	49.94	ng	0.00	
44) 2-Fluorobiphenyl	13.367	172	261382	30.02	ng	0.00	
78) Terphenyl-d14	20.083	244	382104	43.28	ng	0.00	
Target Compounds							Qvalue
31) Naphthalene	10.988	128	25556	2.14	ng	#	94
32) Benzoic acid	10.124	122	55	7.31	ng	#	20
49) Dimethylphthalate	14.190	163	53451	4.86	ng		99
51) Acenaphthene	14.812	154	26081	3.24	ng		96
55) 4-Nitrophenol	15.141	139	9205	5.03	ng	#	7
57) Fluorene	15.788	166	36625	3.39	ng		96
70) Phenanthrene	17.533	178	500527	37.05	ng		98
71) Anthracene	17.621	178	122951	9.18	ng		97
72) Carbazole	17.897	167	49835	3.93	ng		96
74) Fluoranthene	19.536	202	827973	53.32	ng		94
77) Pyrene	19.901	202	791682	60.75	ng		98
80) Benzo(a)anthracene	21.751	228	391544	33.31	ng		98
82) Chrysene	21.816	228	336266	29.40	ng		97
85) Indeno(1,2,3-cd)pyrene	28.867	276	149400	11.64	ng	#	67
87) Benzo(b)fluoranthene	24.031	252	572874	49.66	ng	#	93
88) Benzo(k)fluoranthene	24.031	252	572874	50.45	ng	#	93
89) Benzo(a)pyrene	24.918	252	301940	27.38	ng	#	94
90) Dibenzo(a,h)anthracene	28.884	278	33384	3.21	ng	#	82
91) Benzo(a,h,i)perylene	30.048	276	123162	11.40	ng	#	94

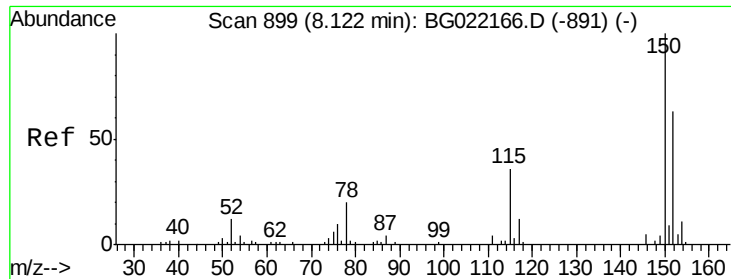
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.120 min Scan# 89

Delta R.T. -0.002 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

Instrument :

BNA_G

ClientSampleId :

SS-46

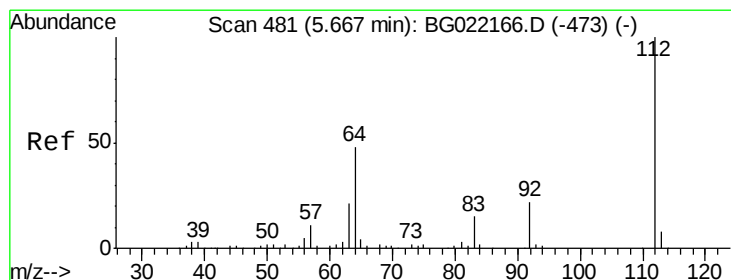
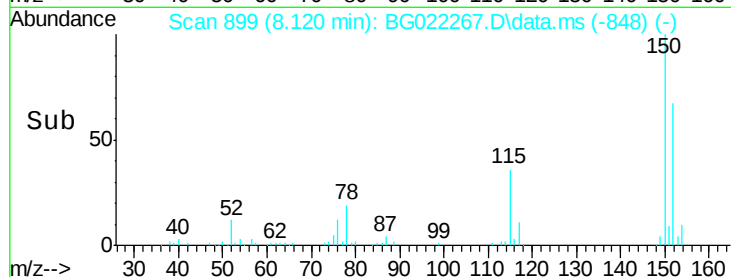
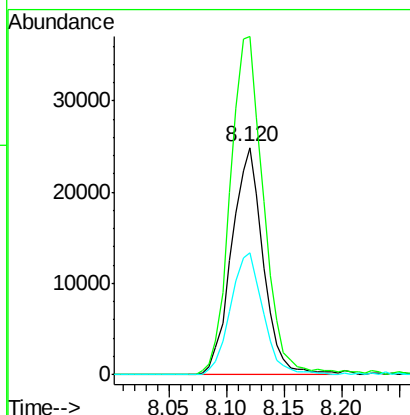
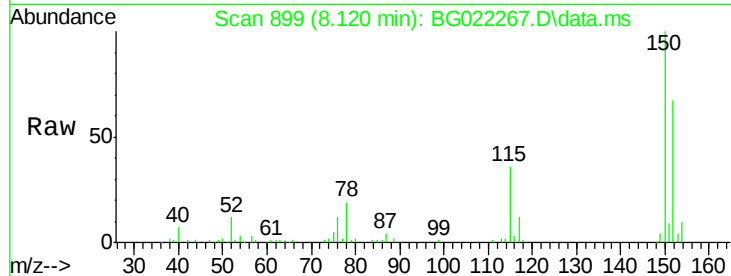
Tot Ion:152 Resp: 46916

Ion Ratio Lower Upper

152 100

150 149.1 130.1 195.1

115 53.6 62.2 93.2#



#5

2-Fluorophenol

Concen: 44.78 ng

RT: 5.664 min Scan# 481

Delta R.T. -0.002 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

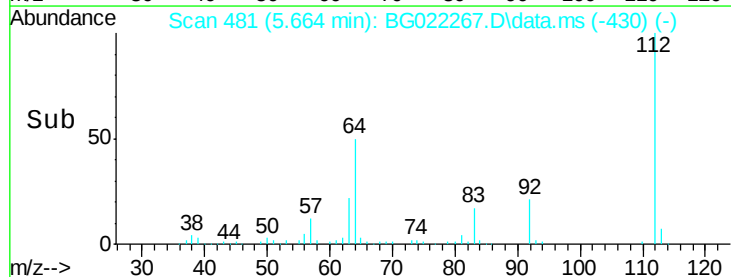
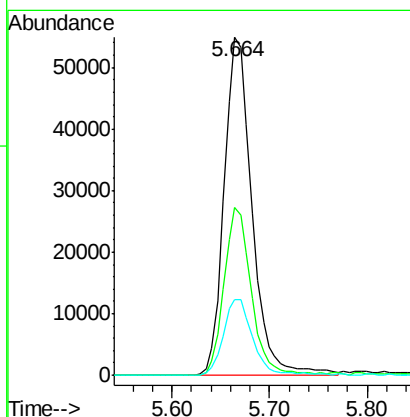
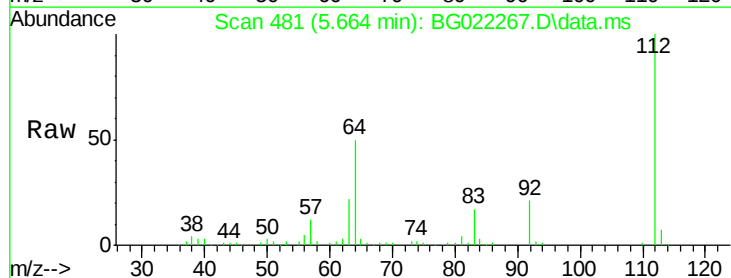
Tgt Ion:112 Resp: 108668

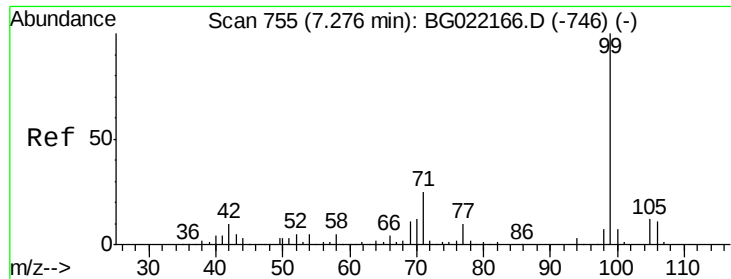
Ion Ratio Lower Upper

112 100

64 49.5 51.1 76.7#

63 22.3 24.6 37.0#





#7

Phenol-d6

Concen: 45.31 ng

RT: 7.280 min Scan# 75

Delta R.T. 0.004 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

Instrument :

BNA_G

ClientSampleId :

SS-46

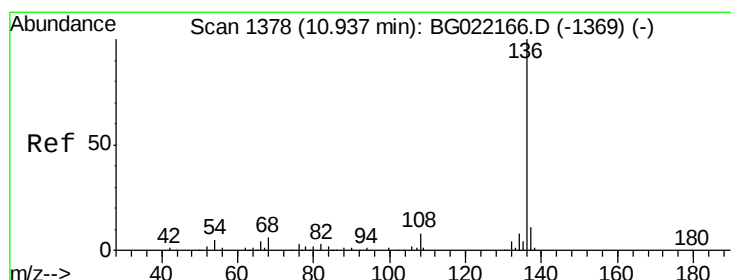
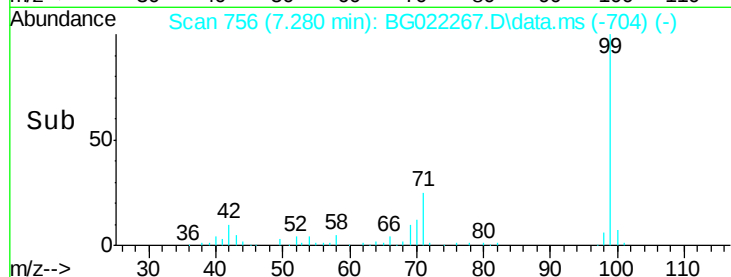
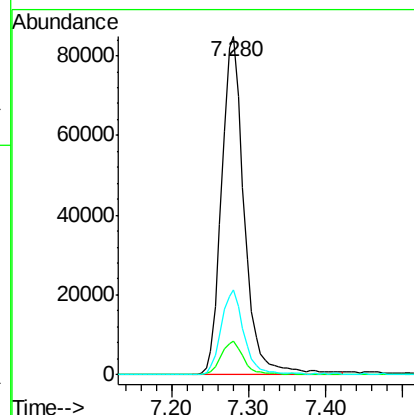
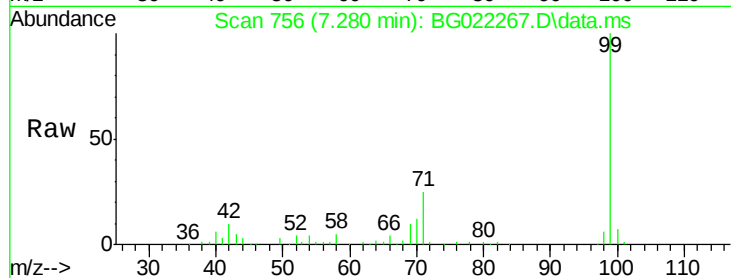
Tot Ion: 99 Resp: 172859

Ion Ratio Lower Upper

99 100

42 9.9 16.4 24.6#

71 24.9 25.0 37.4#



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.935 min Scan# 1378

Delta R.T. -0.002 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

Tgt Ion: 136 Resp: 239304

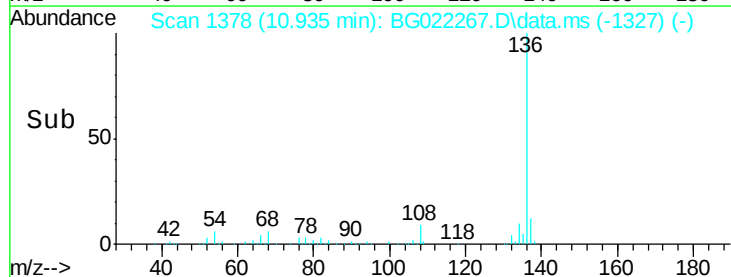
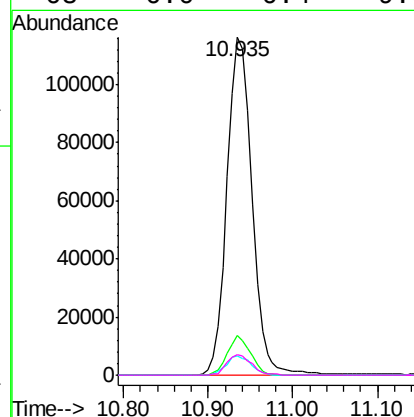
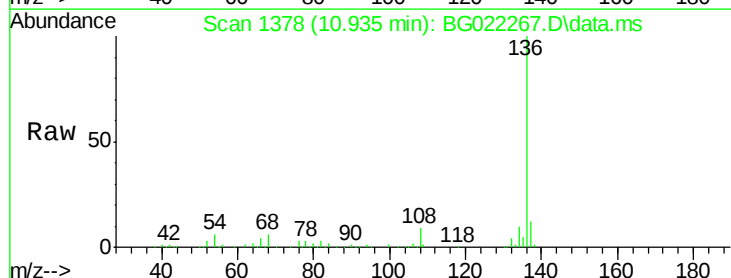
Ion Ratio Lower Upper

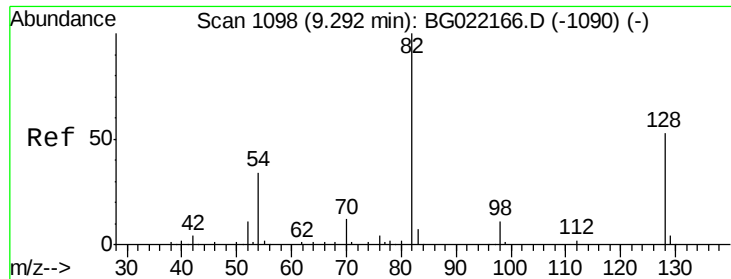
136 100

137 11.7 9.0 13.4

54 5.8 9.6 14.4#

68 6.0 6.4 9.6#





#23

Nitrobenzene-d5

Concen: 28.83 ng

RT: 9.289 min Scan# 10

Delta R.T. -0.002 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

Instrument :

BNA_G

ClientSampleId :

SS-46

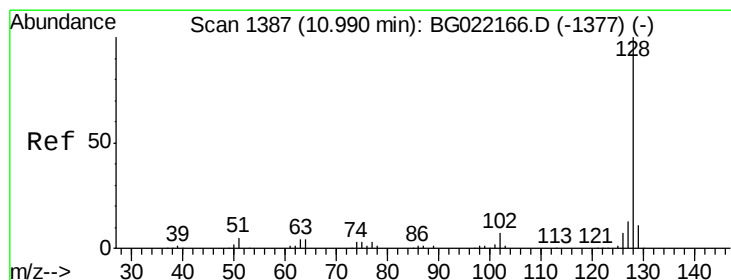
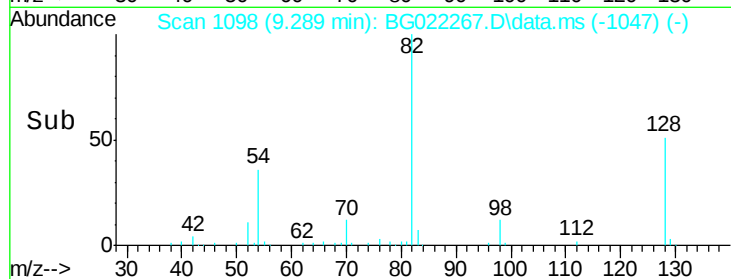
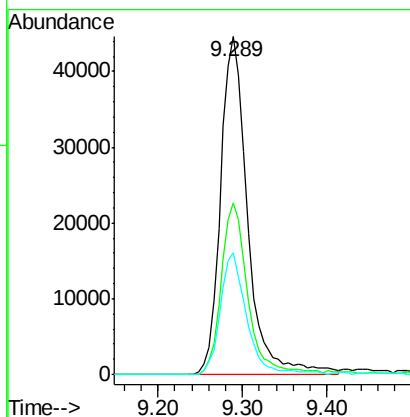
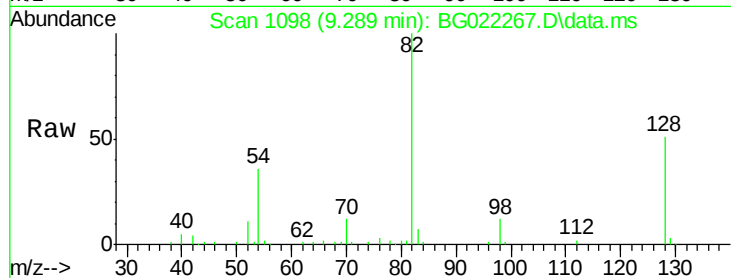
Tot Ion: 82 Resp: 98965

Ion Ratio Lower Upper

82 100

128 50.8 33.4 50.0#

54 36.1 46.1 69.1#



#31

Naphthalene

Concen: 2.14 ng

RT: 10.988 min Scan# 1387

Delta R.T. -0.002 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

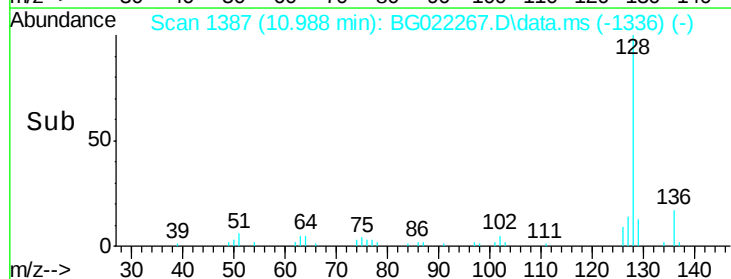
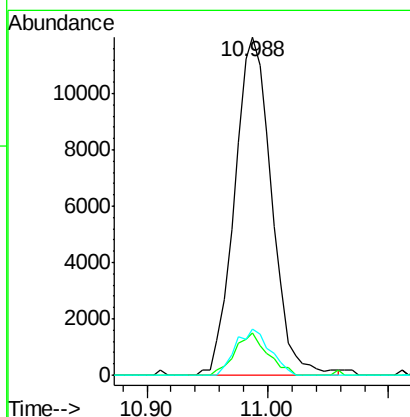
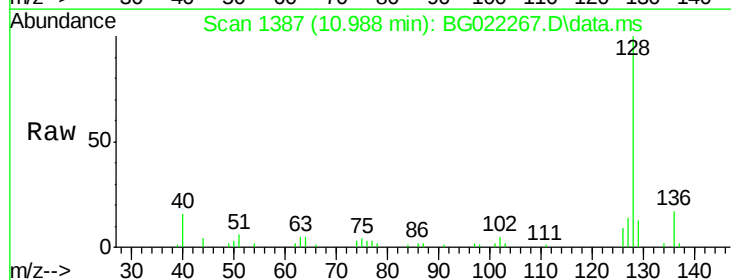
Tgt Ion: 128 Resp: 25556

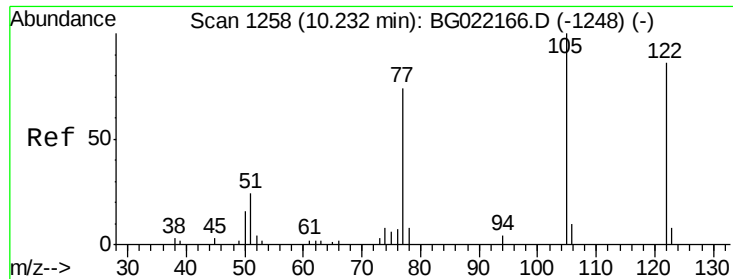
Ion Ratio Lower Upper

128 100

129 12.6 7.0 10.6#

127 13.9 10.1 15.1





#32

Benzoic acid

Concen: 7.31 ng

RT: 10.124 min Scan# 12

Delta R.T. -0.107 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

Instrument :

BNA_G

ClientSampled :

SS-46

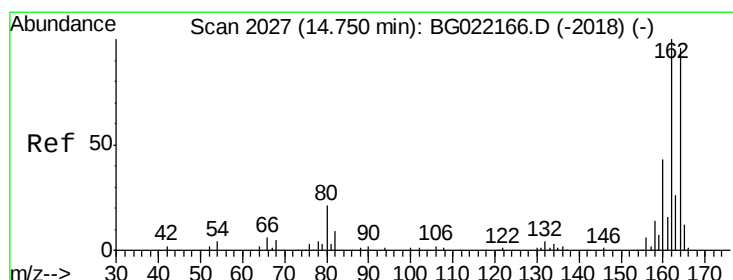
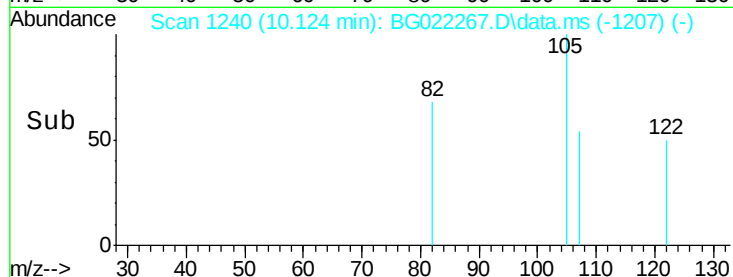
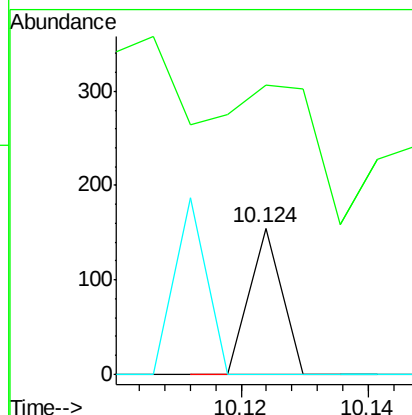
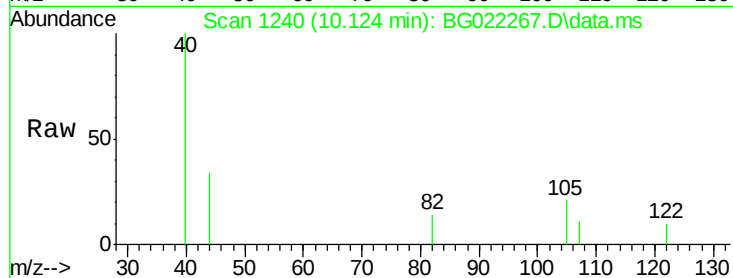
Tot Ion:122 Resp: 55

Ion Ratio Lower Upper

122 100

105 198.1 104.5 144.5#

77 0.0 79.9 119.9#



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.748 min Scan# 2027

Delta R.T. -0.002 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

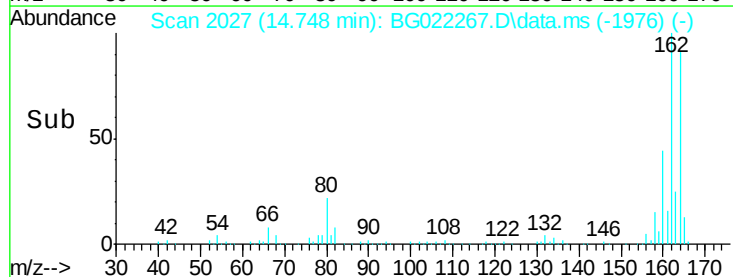
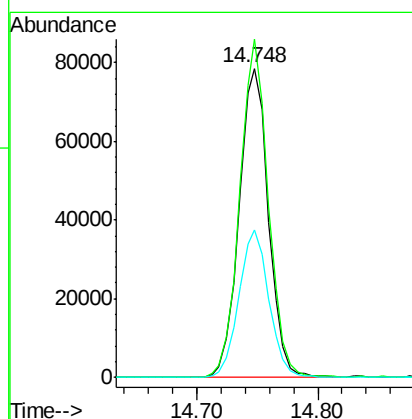
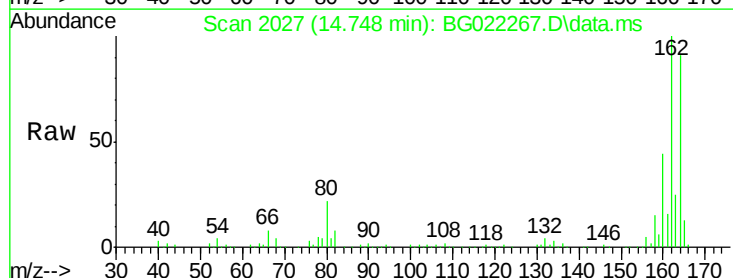
Tgt Ion:164 Resp: 132708

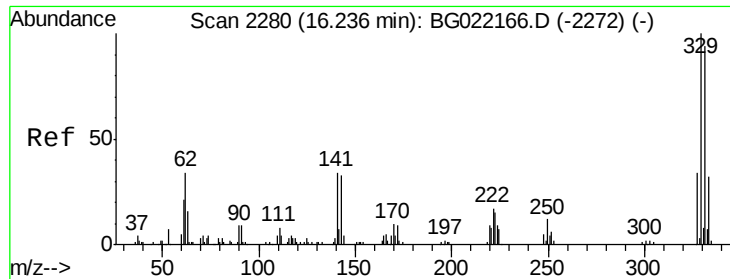
Ion Ratio Lower Upper

164 100

162 109.4 78.0 117.0

160 47.7 32.9 49.3

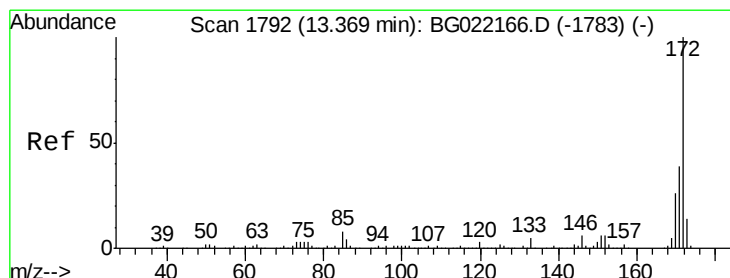
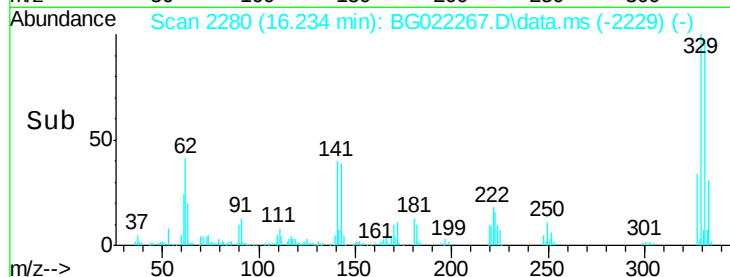
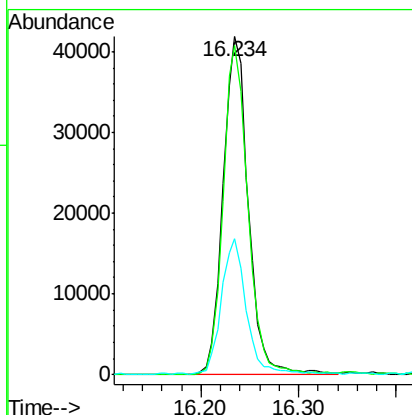
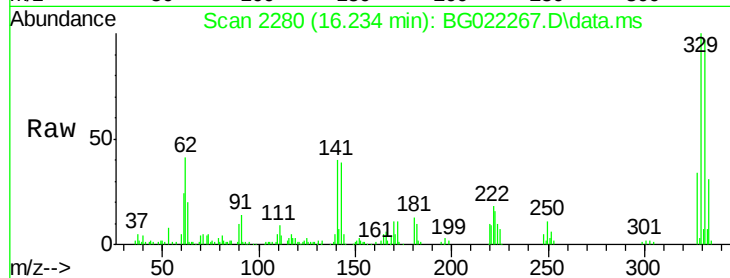




#41
 2,4,6-Tribromophenol
 Concen: 49.94 ng
 RT: 16.234 min Scan# 2280
 Delta R.T. -0.002 min
 Lab File: BG022267.D
 Acq: 9 Jun 2016 13:53

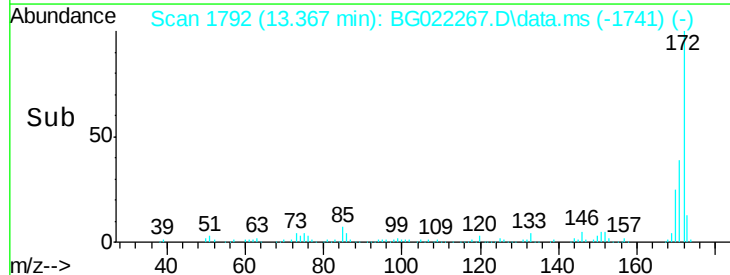
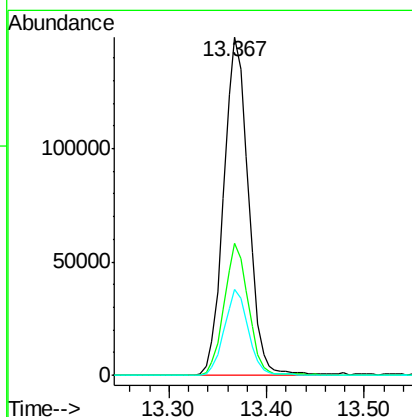
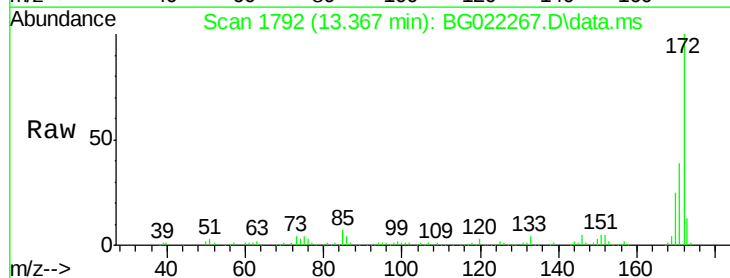
Instrument :
 BNA_G
 ClientSampleId :
 SS-46

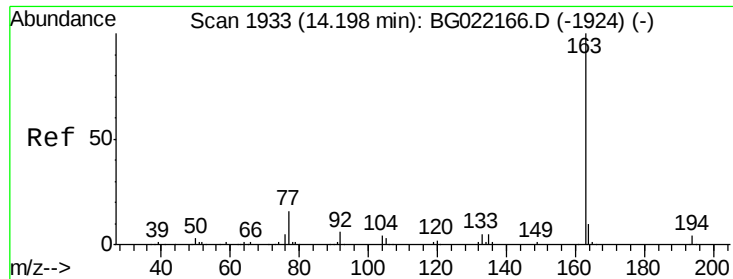
Tot Ion:330 Resp: 74883
 Ion Ratio Lower Upper
 330 100
 332 95.0 78.0 117.0
 141 39.7 33.8 50.8



#44
 2-Fluorobiphenyl
 Concen: 30.02 ng
 RT: 13.367 min Scan# 1792
 Delta R.T. -0.002 min
 Lab File: BG022267.D
 Acq: 9 Jun 2016 13:53

Tgt Ion:172 Resp: 261382
 Ion Ratio Lower Upper
 172 100
 171 39.2 27.8 41.6
 170 25.4 19.6 29.4





#49

Dimethylphthalate

Concen: 4.86 ng

RT: 14.190 min Scan# 1933

Delta R.T. -0.008 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

Instrument :

BNA_G

ClientSampleId :

SS-46

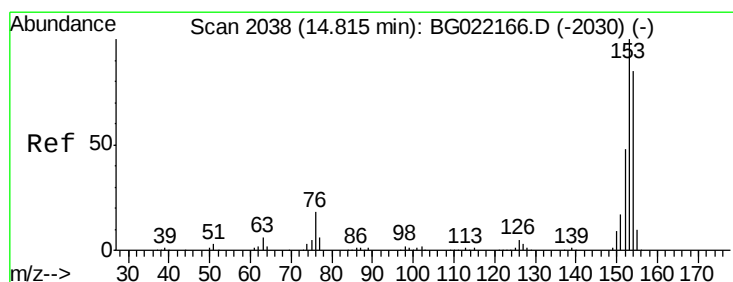
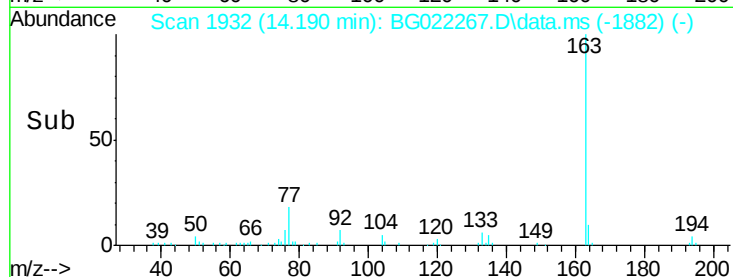
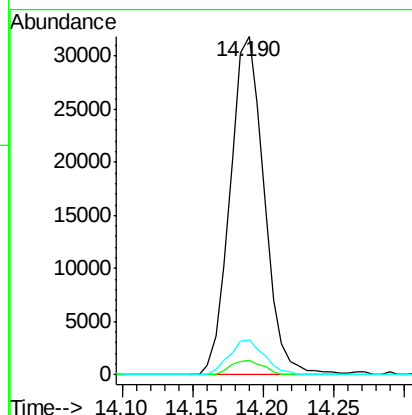
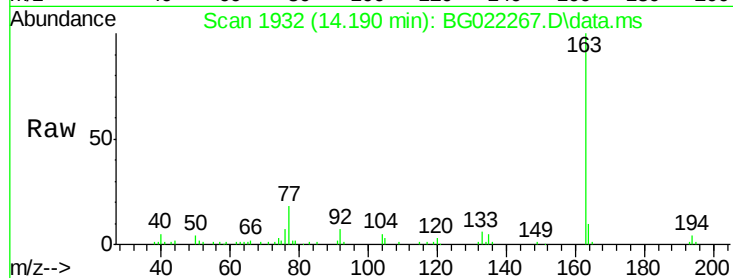
Tot Ion:163 Resp: 53451

Ion Ratio Lower Upper

163 100

194 4.1 3.0 4.6

164 10.4 8.1 12.1



#51

Acenaphthene

Concen: 3.24 ng

RT: 14.812 min Scan# 2038

Delta R.T. -0.002 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

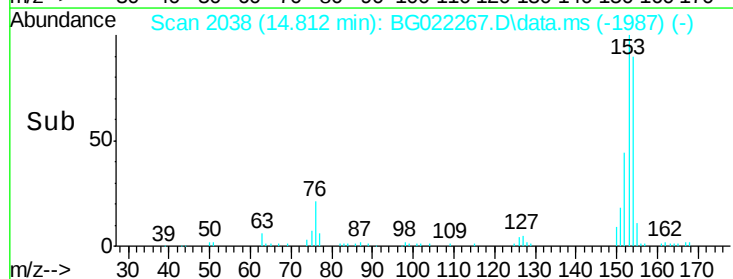
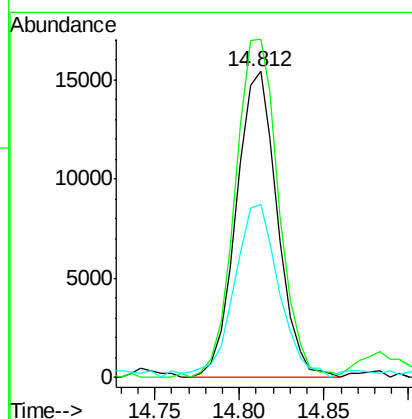
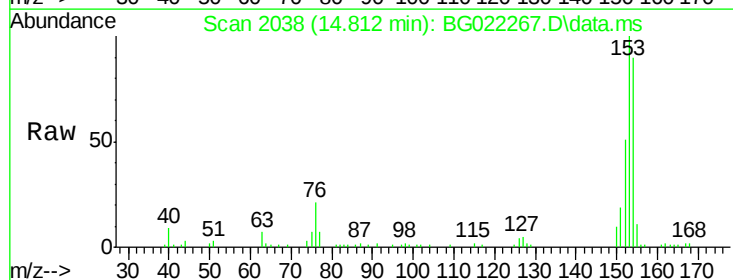
Tgt Ion:154 Resp: 26081

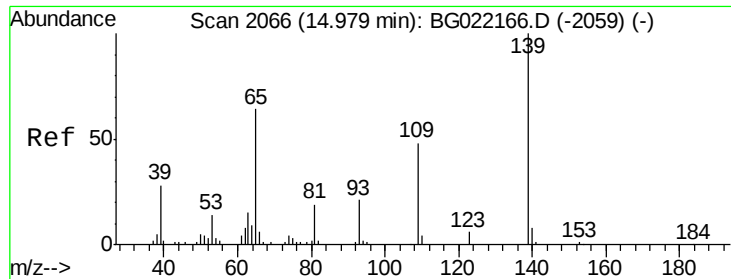
Ion Ratio Lower Upper

154 100

153 110.5 91.9 137.9

152 56.4 42.0 63.0





#55

4-Nitrophenol

Concen: 5.03 ng

RT: 15.141 min Scan# 20

Delta R.T. 0.162 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

Instrument :

BNA_G

ClientSampleId :

SS-46

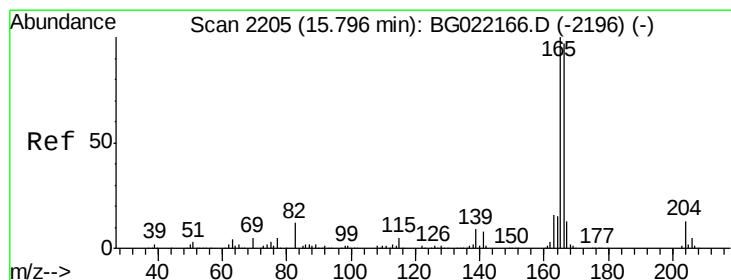
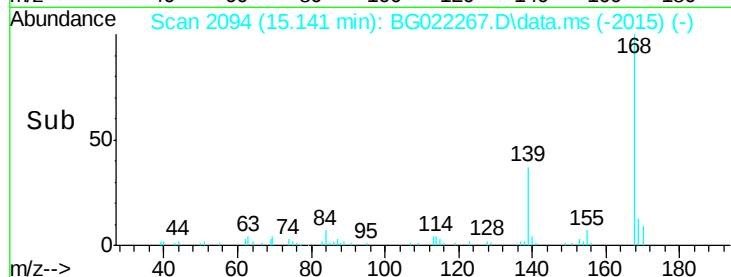
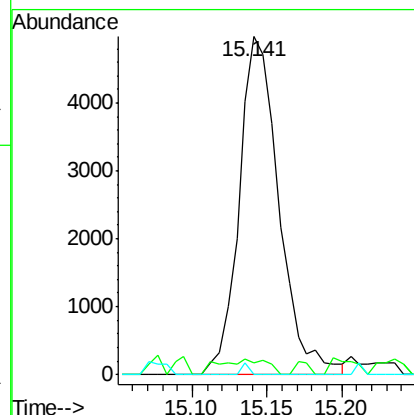
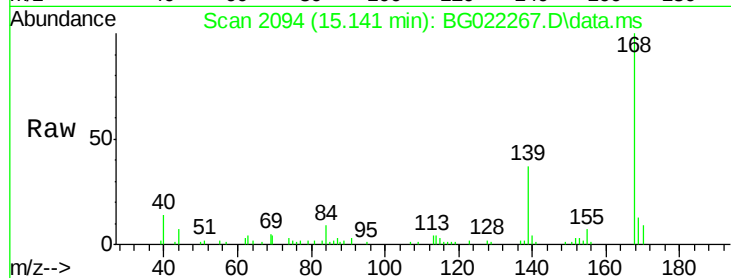
Tot Ion:139 Resp: 9205

Ion Ratio Lower Upper

139 100

109 3.4 49.2 89.2#

65 0.0 83.2 123.2#



#57

Fluorene

Concen: 3.39 ng

RT: 15.788 min Scan# 2204

Delta R.T. -0.008 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

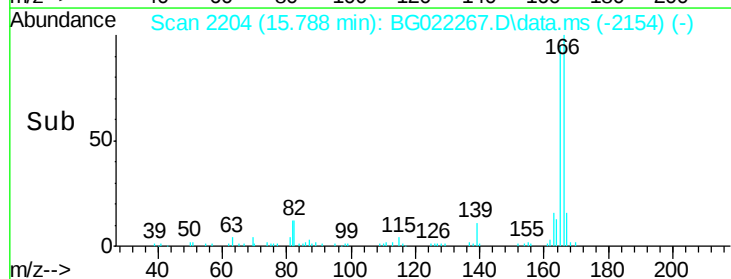
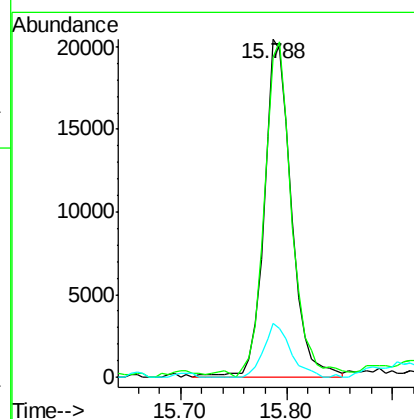
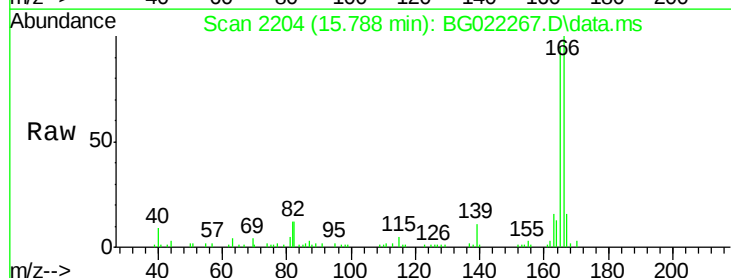
Tgt Ion:166 Resp: 36625

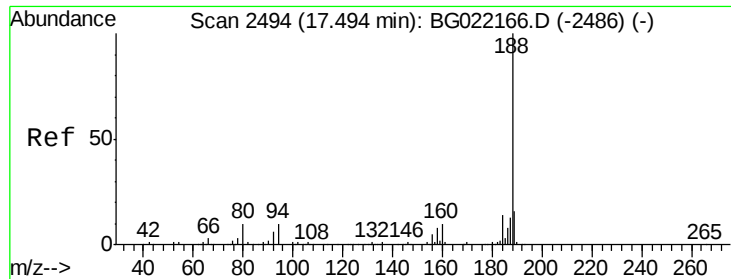
Ion Ratio Lower Upper

166 100

165 94.5 79.0 118.4

167 15.8 10.7 16.1

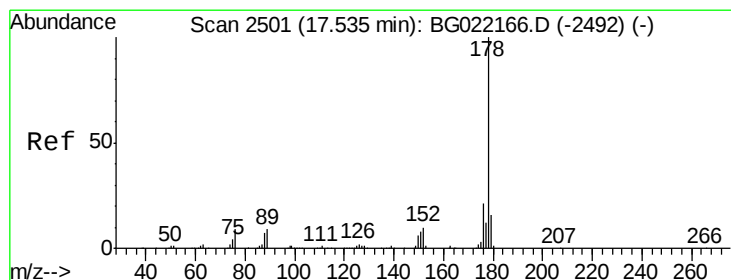
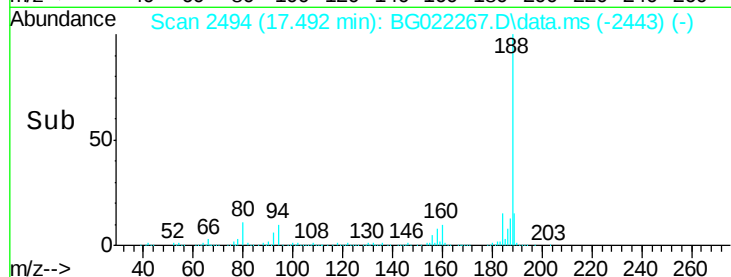
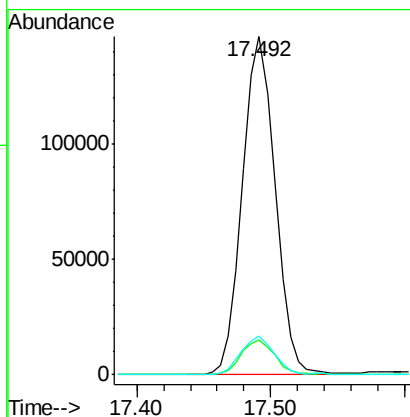
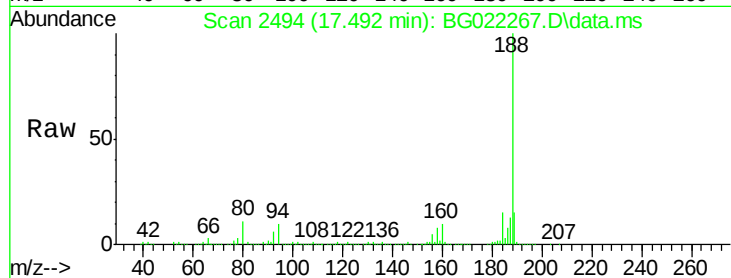




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.492 min Scan# 2494
Delta R.T. -0.002 min
Lab File: BG022267.D
Acq: 9 Jun 2016 13:53

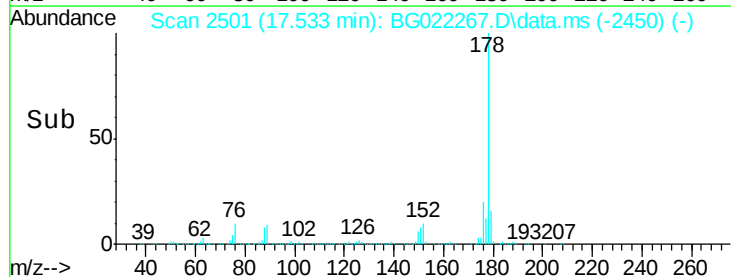
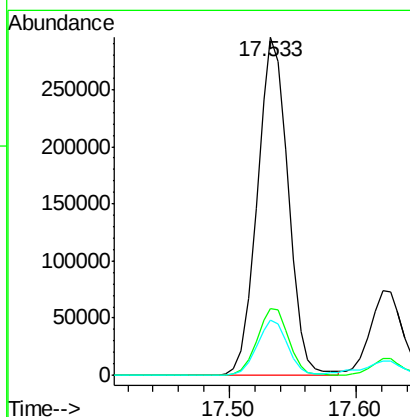
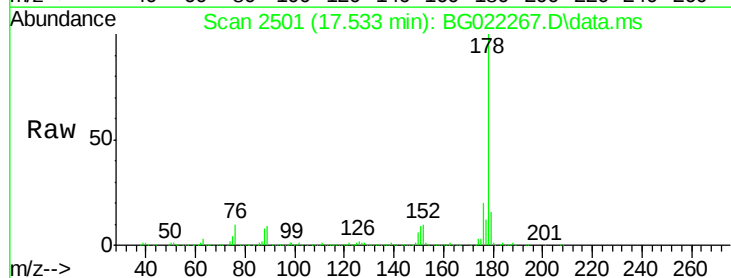
Instrument :
BNA_G
ClientSampleId :
SS-46

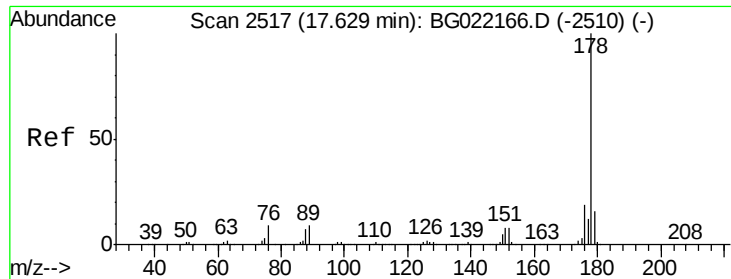
Tot Ion	Ratio	Lower	Upper
188	100		
94	10.4	7.5	11.3
80	11.4	8.6	13.0



#70
Phenanthrene
Concen: 37.05 ng
RT: 17.533 min Scan# 2501
Delta R.T. -0.002 min
Lab File: BG022267.D
Acq: 9 Jun 2016 13:53

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.9	16.2	24.4
179	16.3	12.0	18.0





#71

Anthracene

Concen: 9.18 ng

RT: 17.621 min Scan# 2517

Delta R.T. -0.008 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

Instrument :

BNA_G

ClientSampleId :

SS-46

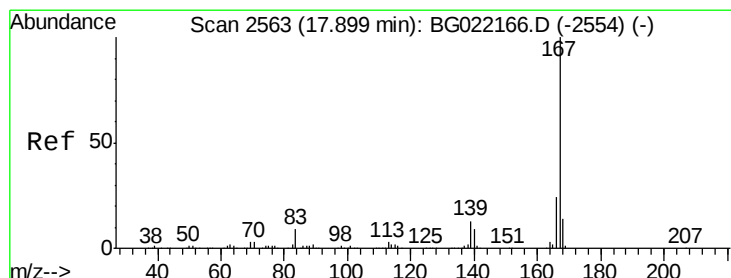
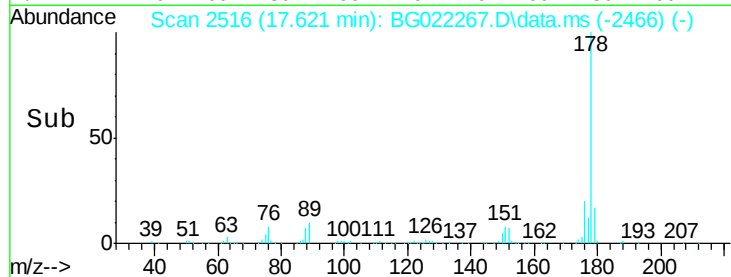
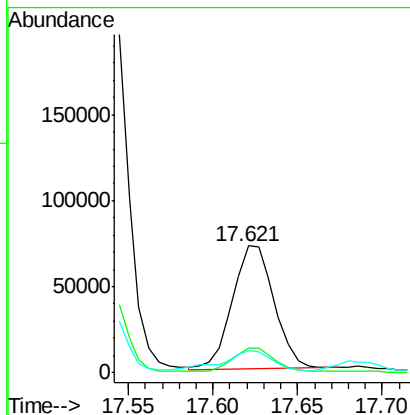
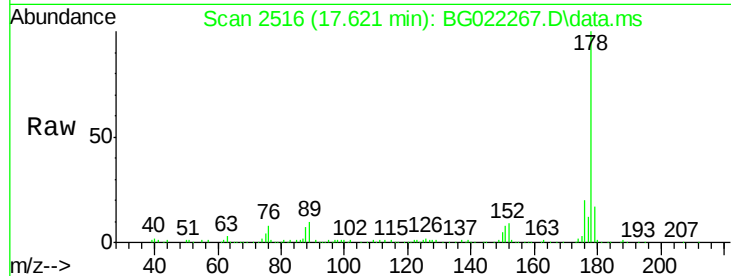
Tot Ion:178 Resp: 122951

Ion Ratio Lower Upper

178 100

176 19.6 15.0 22.4

179 16.8 12.2 18.4



#72

Carbazole

Concen: 3.93 ng

RT: 17.897 min Scan# 2563

Delta R.T. -0.002 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

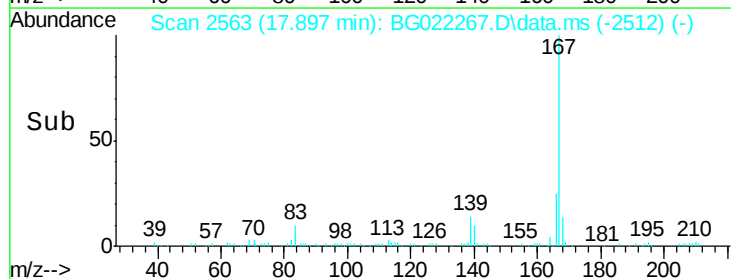
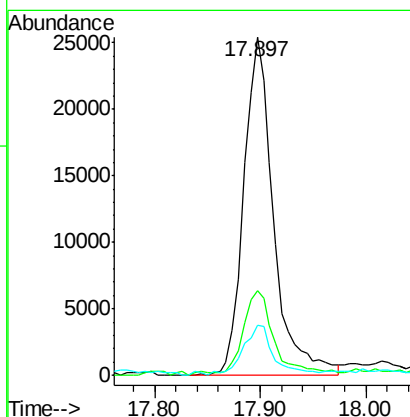
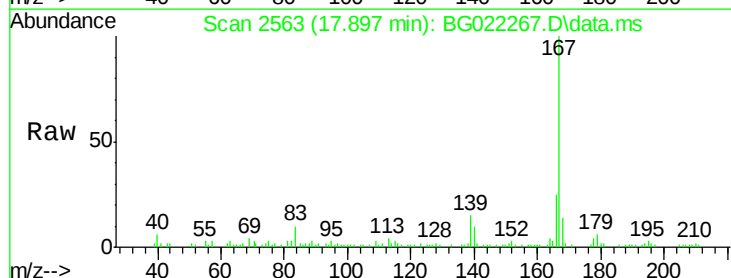
Tgt Ion:167 Resp: 49835

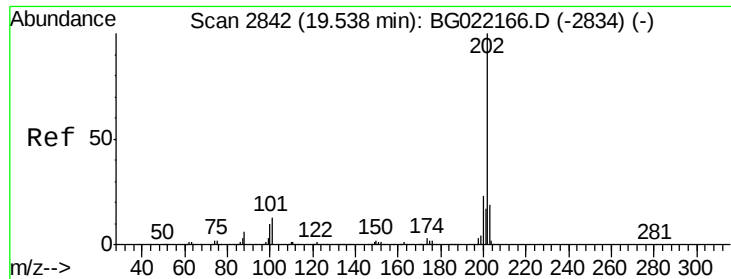
Ion Ratio Lower Upper

167 100

166 24.9 18.6 27.8

139 15.0 10.6 15.8





#74

Fluoranthene

Concen: 53.32 ng

RT: 19.536 min Scan# 28

Delta R.T. -0.002 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

Instrument :

BNA_G

ClientSampleId :

SS-46

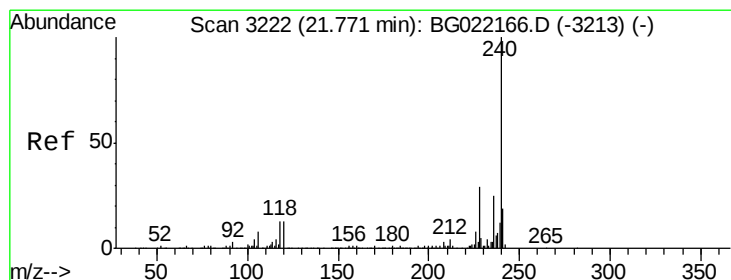
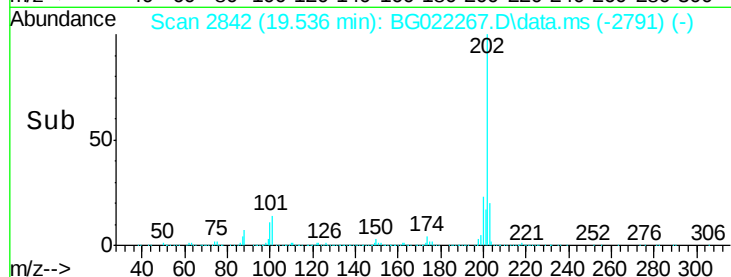
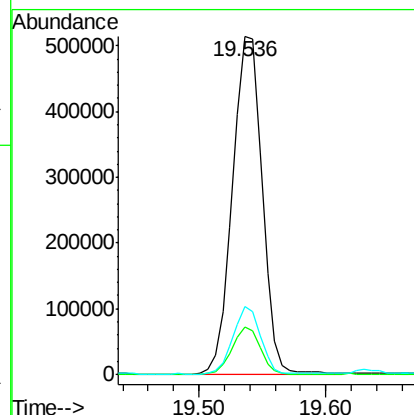
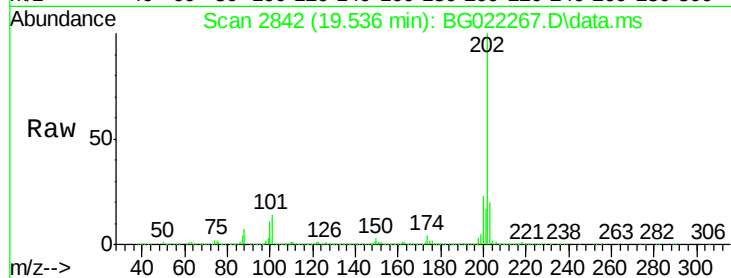
Tot Ion:202 Resp: 827973

Ion Ratio Lower Upper

202 100

101 13.9 0.0 31.0

203 20.2 0.0 37.9



#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.769 min Scan# 3222

Delta R.T. -0.002 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

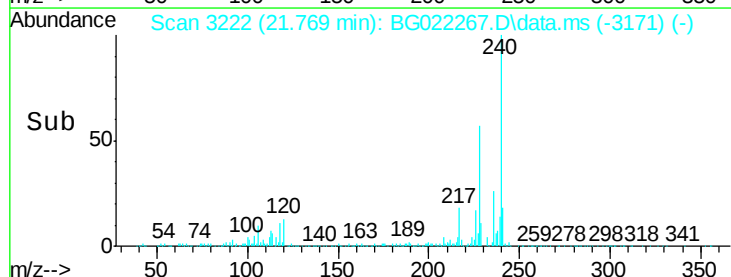
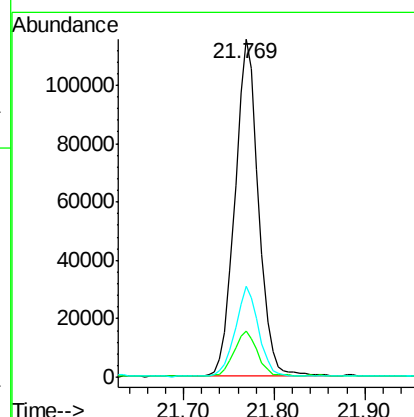
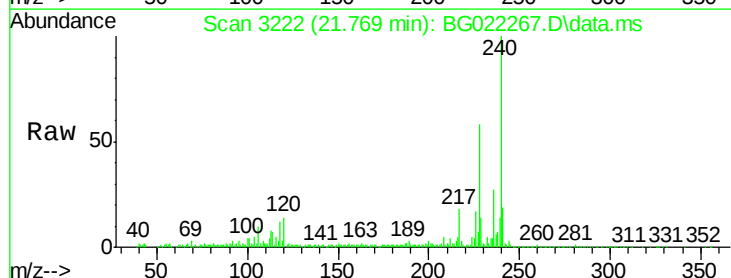
Tgt Ion:240 Resp: 209607

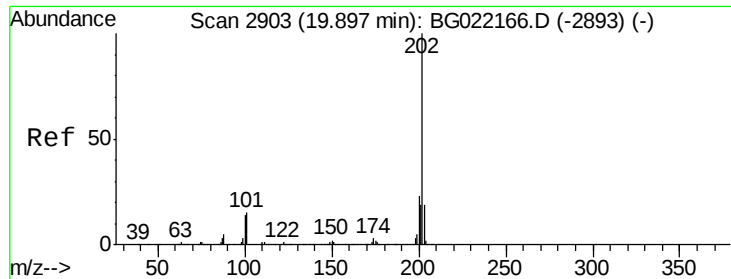
Ion Ratio Lower Upper

240 100

120 13.7 8.4 12.6#

236 26.9 19.6 29.4





#77

Pvrene

Concen: 60.75 ng

RT: 19.901 min Scan# 2903

Delta R.T. 0.004 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

Instrument :

BNA_G

ClientSampleId :

SS-46

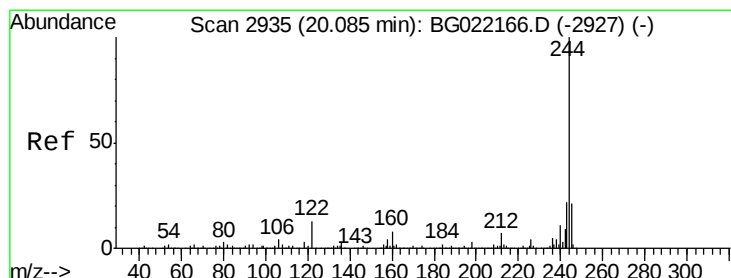
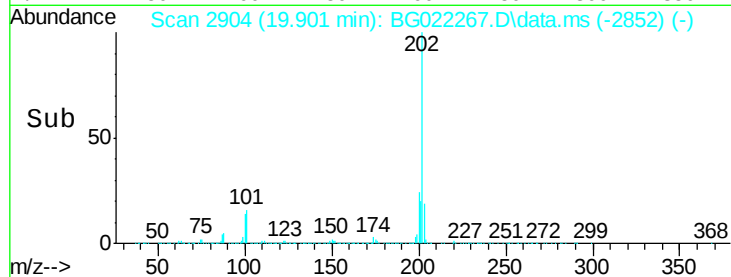
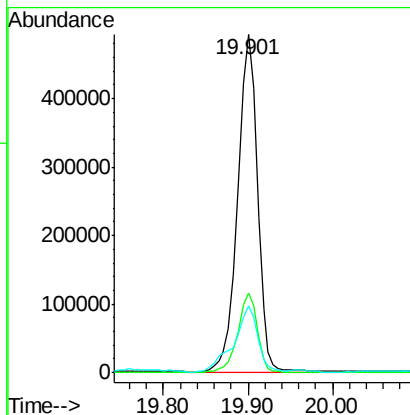
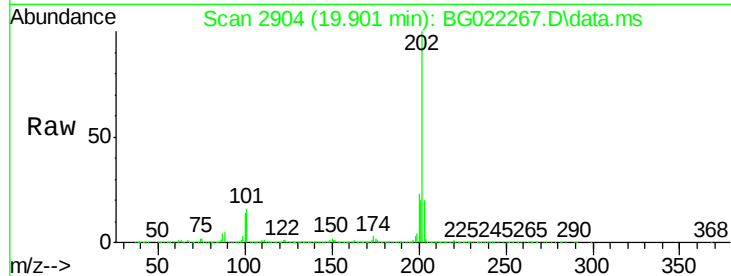
Tot Ion:202 Resp: 791682

Ion Ratio Lower Upper

202 100

200 23.5 18.2 27.2

203 19.7 15.0 22.4



#78

Terphenyl-d14

Concen: 43.28 ng

RT: 20.083 min Scan# 2935

Delta R.T. -0.002 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

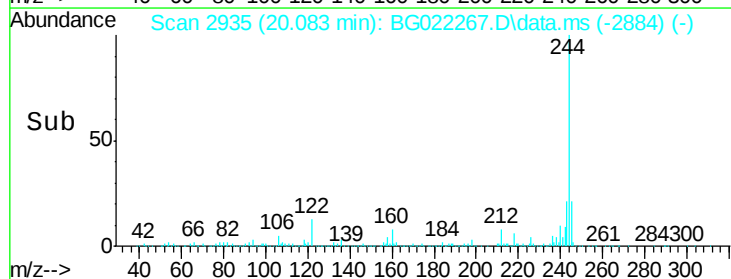
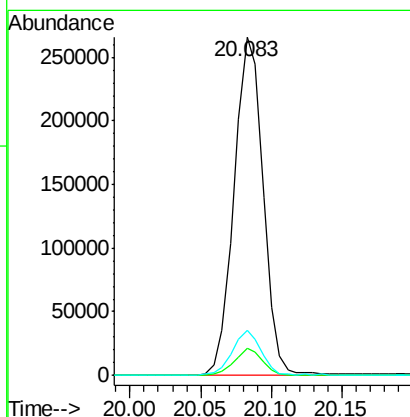
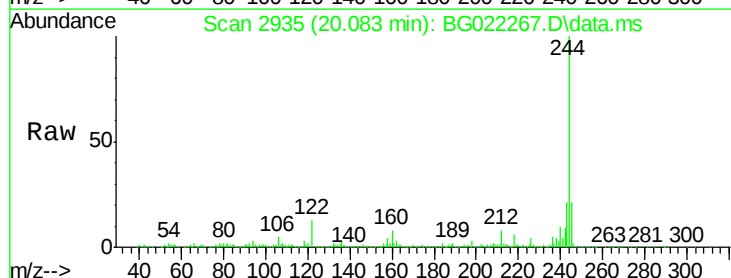
Tgt Ion:244 Resp: 382104

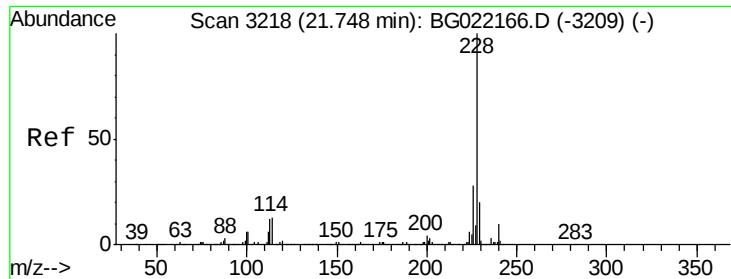
Ion Ratio Lower Upper

244 100

212 7.8 6.5 9.7

122 13.2 8.6 12.8#





#80

Benzo(a)anthracene

Concen: 33.31 ng

RT: 21.751 min Scan# 3218

Delta R.T. 0.004 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

Instrument :

BNA_G

ClientSampleId :

SS-46

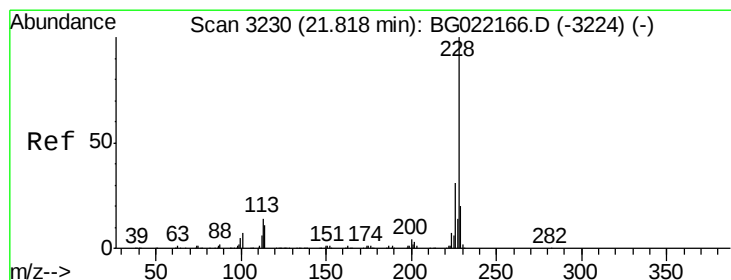
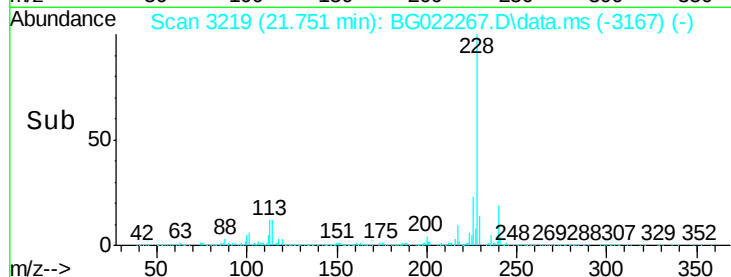
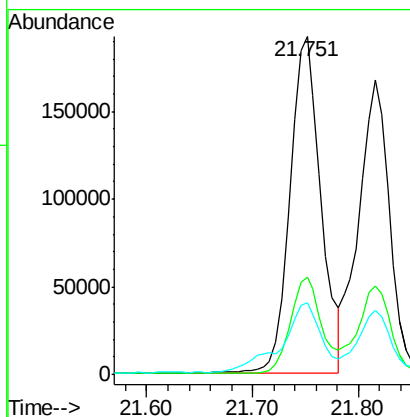
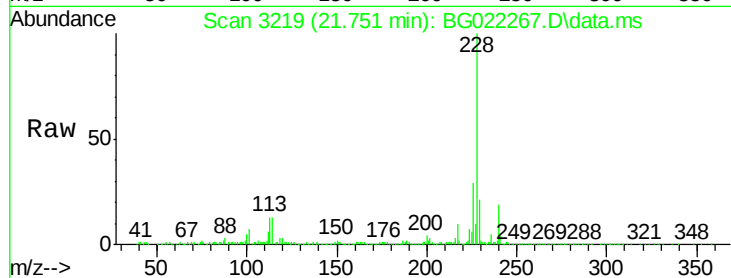
Tot Ion:228 Resp: 391544

Ion Ratio Lower Upper

228 100

226 28.9 22.6 34.0

229 21.3 16.1 24.1



#82

Chrysene

Concen: 29.40 ng

RT: 21.816 min Scan# 3230

Delta R.T. -0.002 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

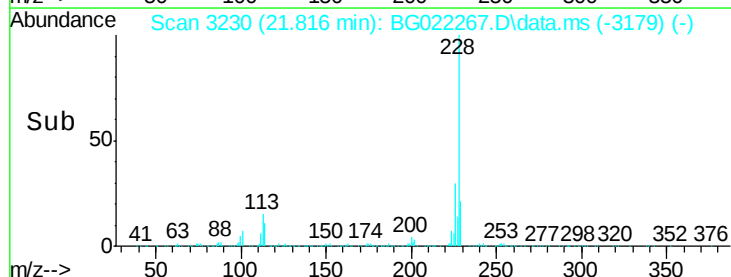
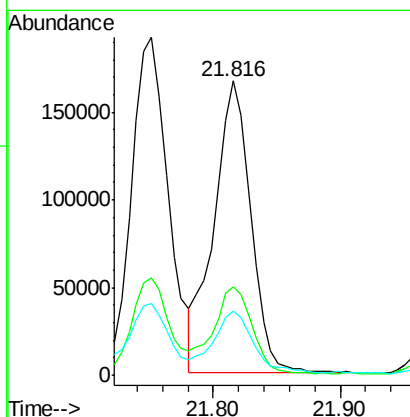
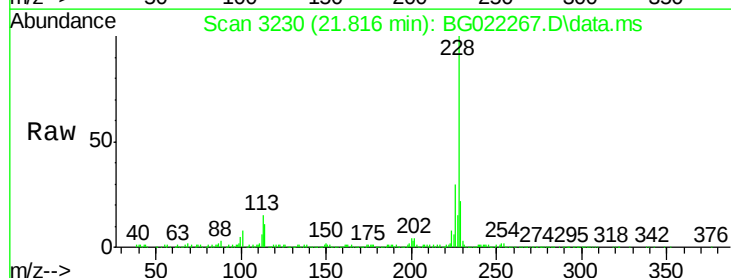
Tgt Ion:228 Resp: 336266

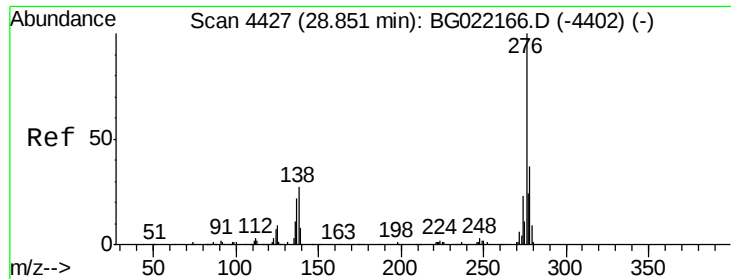
Ion Ratio Lower Upper

228 100

226 30.1 25.4 38.0

229 21.8 15.9 23.9





#85

Indeno(1,2,3-cd)pyrene

Concen: 11.64 ng

RT: 28.867 min Scan# 44

Delta R.T. 0.015 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

Instrument :

BNA_G

ClientSampleId :

SS-46

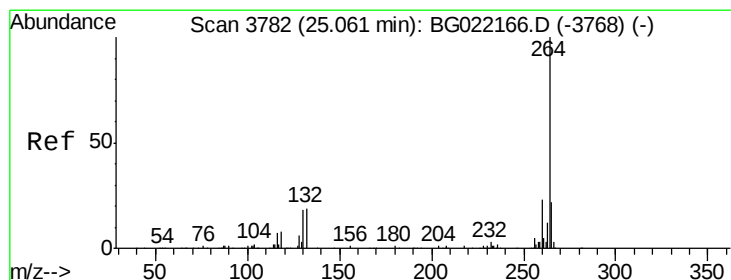
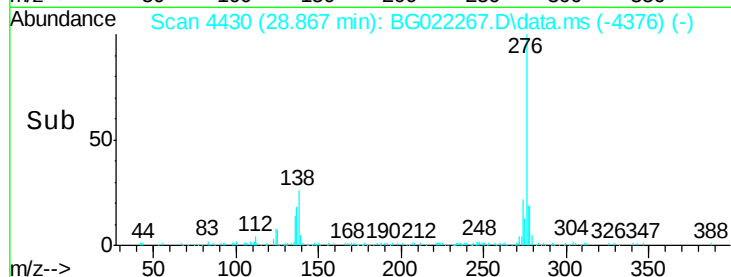
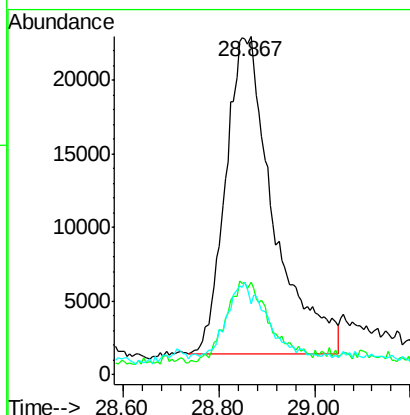
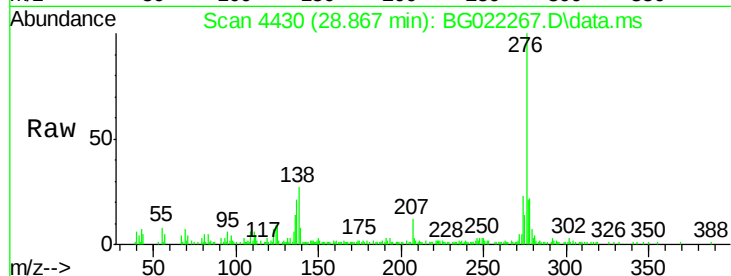
Tot Ion:276 Resp: 149400

Ion Ratio Lower Upper

276 100

138 0.0 14.0 21.0#

277 11.0 20.6 30.8#



#86

Perylene-d12

Concen: 20.00 ng

RT: 25.077 min Scan# 3785

Delta R.T. 0.015 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

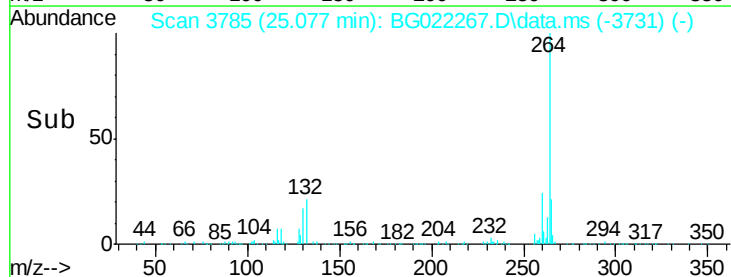
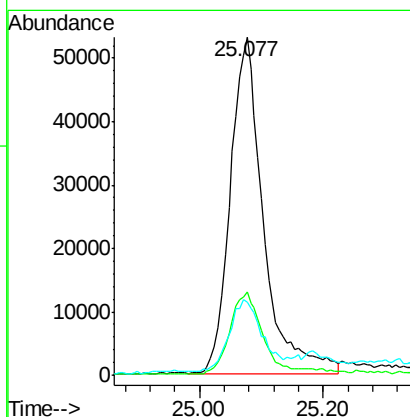
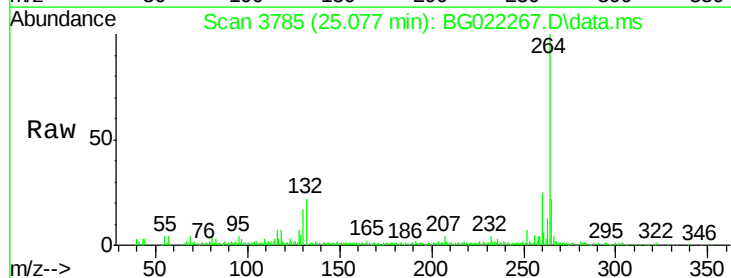
Tgt Ion:264 Resp: 197782

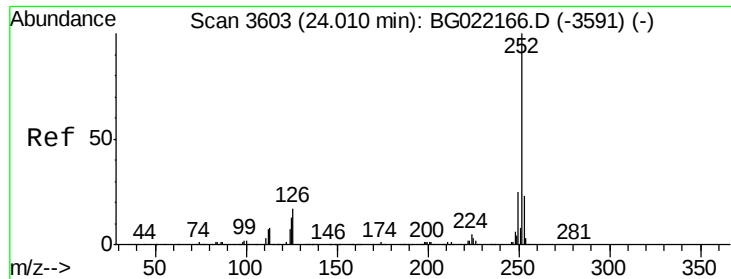
Ion Ratio Lower Upper

264 100

260 24.8 20.2 30.4

265 21.8 17.8 26.8





#87

Benzo(b)fluoranthene

Concen: 49.66 ng

RT: 24.031 min Scan# 3607

Delta R.T. 0.021 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

Instrument :

BNA_G

ClientSampleId :

SS-46

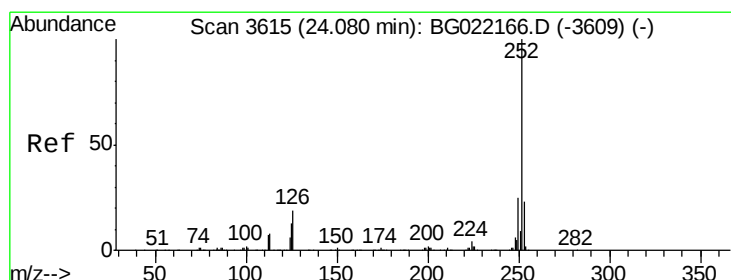
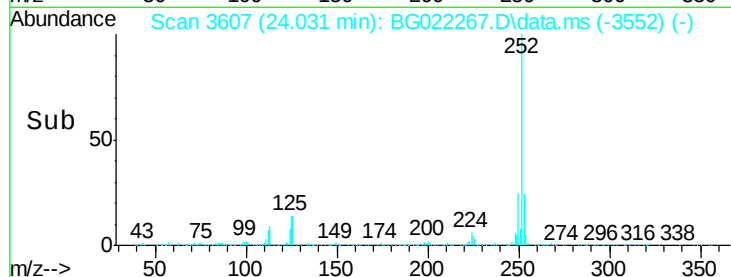
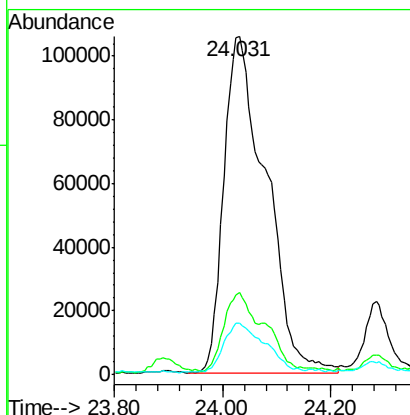
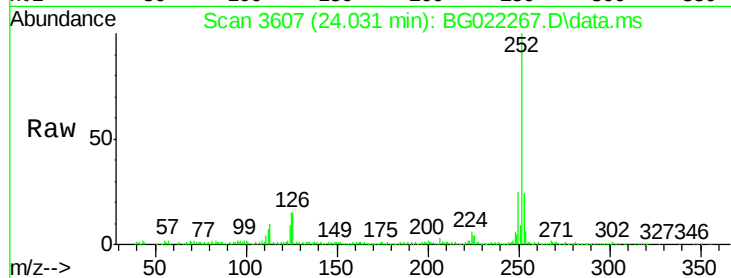
Tot Ion:252 Resp: 572874

Ion Ratio Lower Upper

252 100

253 24.2 17.5 26.3

125 15.4 8.6 13.0#



#88

Benzo(k)fluoranthene

Concen: 50.45 ng

RT: 24.031 min Scan# 3607

Delta R.T. -0.049 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

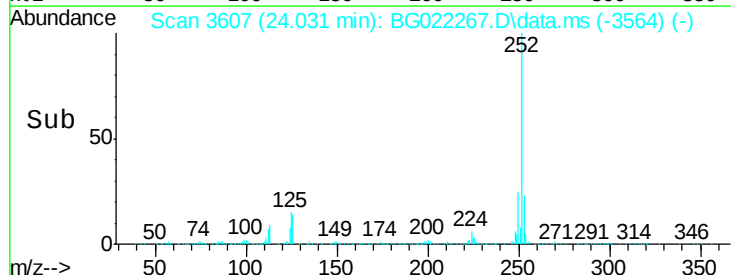
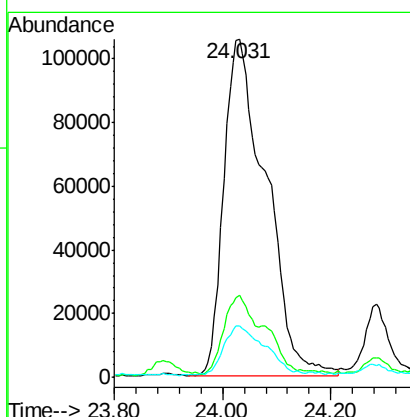
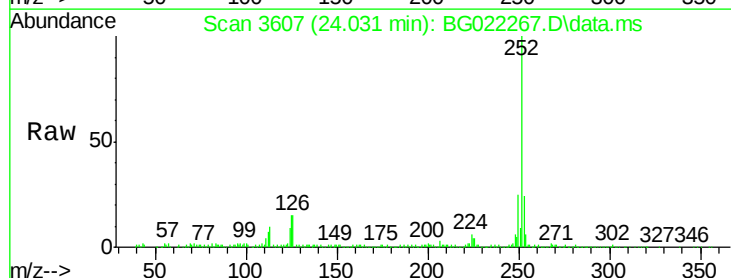
Tgt Ion:252 Resp: 572874

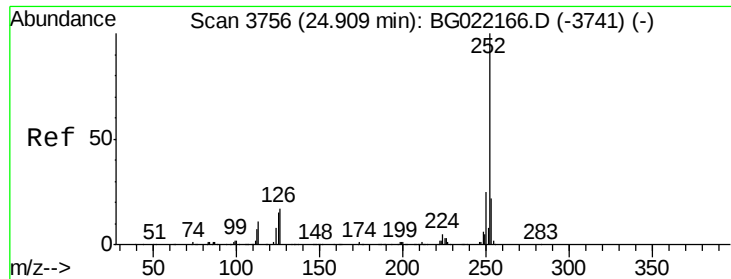
Ion Ratio Lower Upper

252 100

253 24.2 17.8 26.8

125 15.4 8.3 12.5#





#89

Benzo(a)pyrene

Concen: 27.38 ng

RT: 24.918 min Scan# 37

Delta R.T. 0.010 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

Instrument :

BNA_G

ClientSampleId :

SS-46

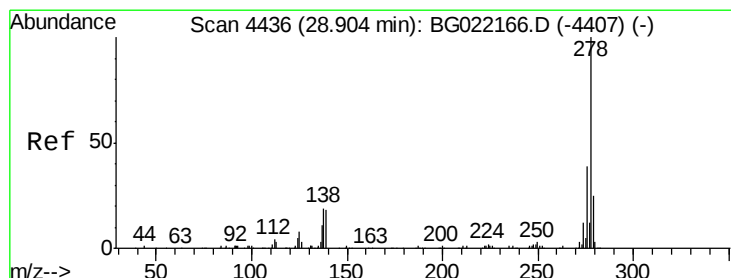
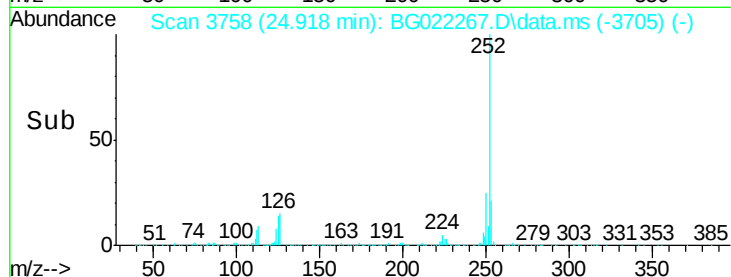
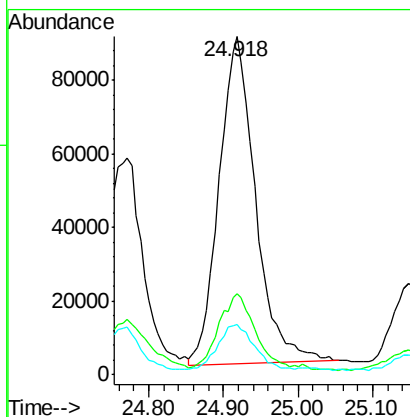
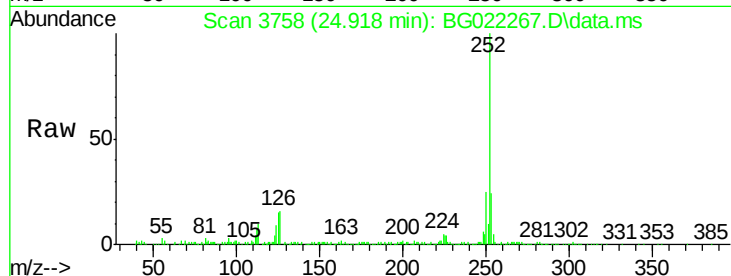
Tot Ion:252 Resp: 301940

Ion Ratio Lower Upper

252 100

253 23.8 17.1 25.7

125 14.7 9.6 14.4#



#90

Dibenzo(a,h)anthracene

Concen: 3.21 ng

RT: 28.884 min Scan# 4433

Delta R.T. -0.020 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

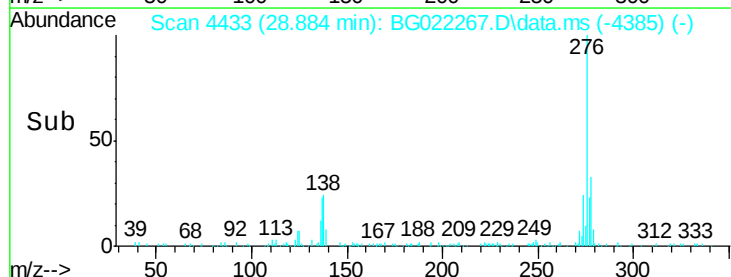
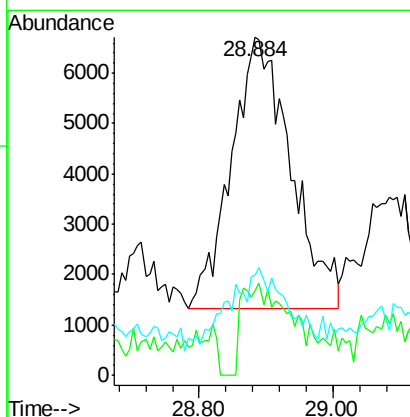
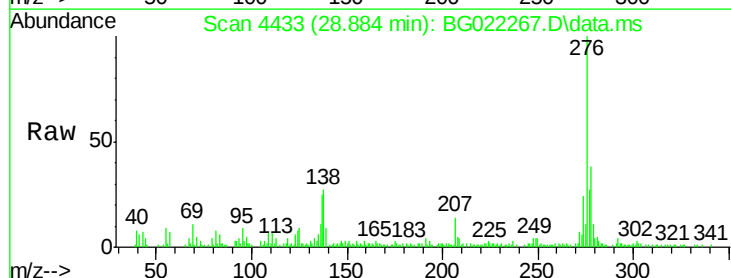
Tgt Ion:278 Resp: 33384

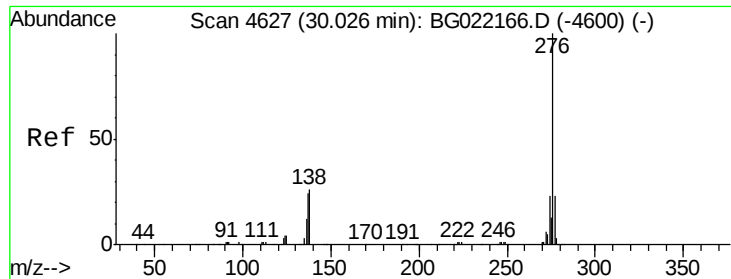
Ion Ratio Lower Upper

278 100

139 25.2 11.9 17.9#

279 29.6 18.2 27.2#





#91

Benzo(a,h,i)perylene

Concen: 11.40 ng

RT: 30.048 min Scan# 46

Delta R.T. 0.021 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

Instrument :

BNA_G

ClientSampleId :

SS-46

Tot Ion:276 Resp: 123162

Ion Ratio Lower Upper

276 100

277 24.3 19.4 29.2

138 27.3 17.4 26.0#

