

Data Path : Z:\HPCHEM1\BNA G\DATA\BG060916\
 Data File : BG022271.D
 Acq On : 9 Jun 2016 16:32
 Operator : UM/SJ
 Sample : H3402-04 2X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SS-40

Quant Time: Jun 09 17:17:25 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

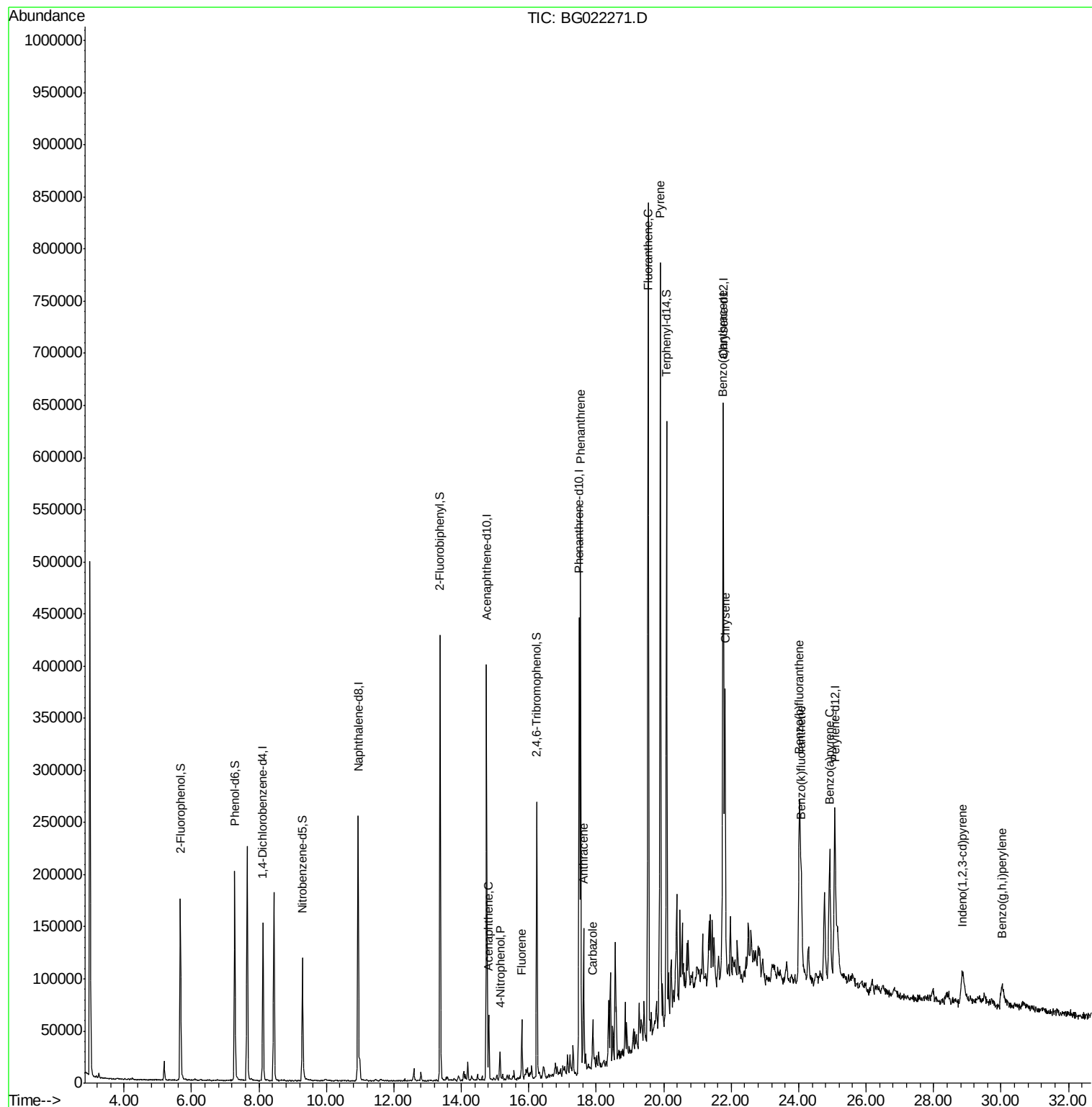
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.12	152	57702	20.00	ng	0.00
21) Naphthalene-d8	10.94	136	282616	20.00	ng	0.00
38) Acenaphthene-d10	14.75	164	154031	20.00	ng	0.00
63) Phenanthrene-d10	17.49	188	299595	20.00	ng	0.00
75) Chrysene-d12	21.77	240	249182	20.00	ng	0.00
86) Perylene-d12	25.07	264	225408	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.67	112	118722	39.78	ng	0.00
7) Phenol-d6	7.28	99	174728	37.24	ng	0.00
23) Nitrobenzene-d5	9.29	82	98379	24.27	ng	0.00
41) 2,4,6-Tribromophenol	16.23	330	56483	32.45	ng	0.00
44) 2-Fluorobiphenyl	13.37	172	266259	26.34	ng	0.00
78) Terphenyl-d14	20.08	244	263358	25.09	ng	0.00
Target Compounds						Qvalue
51) Acenaphthene	14.81	154	25129	2.69	ng	90
55) 4-Nitrophenol	15.15	139	6897	3.25	ng	# 5
57) Fluorene	15.79	166	30208	2.41	ng	98
70) Phenanthrene	17.53	178	367918	22.61	ng	99
71) Anthracene	17.63	178	93993	5.82	ng	97
72) Carbazole	17.90	167	36619	2.40	ng	100
74) Fluoranthene	19.54	202	537047	28.71	ng	97
77) Pyrene	19.90	202	473736	30.58	ng	99
80) Benzo(a)anthracene	21.75	228	238959	17.10	ng	99
82) Chrysene	21.82	228	205240	15.09	ng	97
85) Indeno(1,2,3-cd)pyrene	28.85	276	83186m	5.45	ng	
87) Benzo(b)fluoranthene	24.03	252	228682	17.40	ng	# 94
88) Benzo(k)fluoranthene	24.08	252	108045m	8.35	ng	
89) Benzo(a)pyrene	24.91	252	157496	12.53	ng	# 95
91) Benzo(a,h,i)perylene	30.04	276	70317m	5.71	ng	

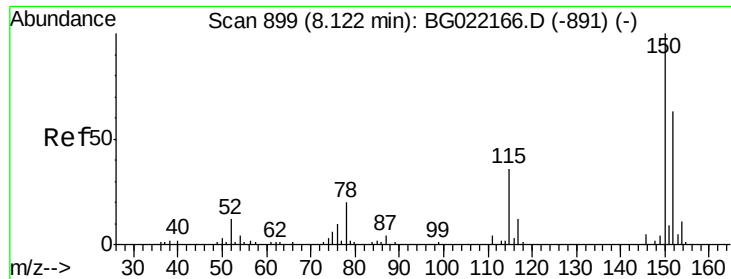
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.12 min Scan# 899

Delta R.T. -0.00 min

Lab File: BG022271.D

Acq: 9 Jun 2016 16:32

Instrument :

BNA_G

ClientSampleId :

SS-40

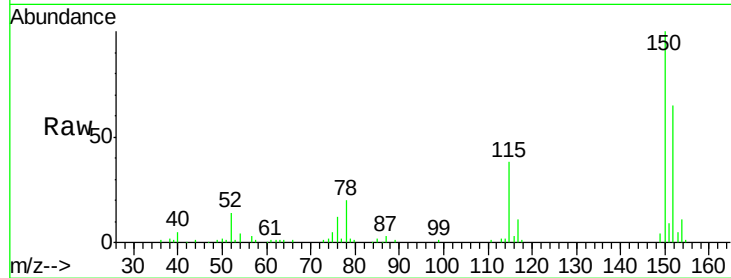
Tot Ion:152 Resp: 57702

Ion Ratio Lower Upper

152 100

150 153.0 130.1 195.1

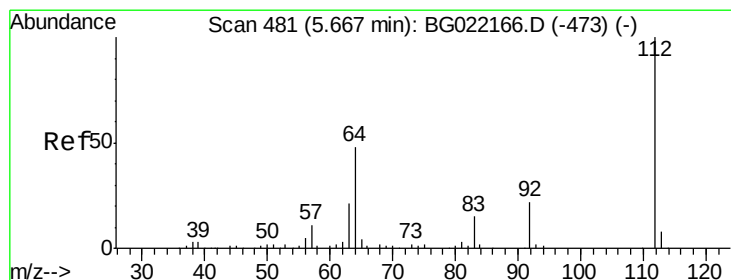
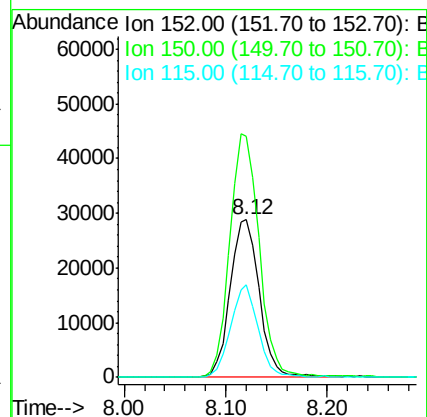
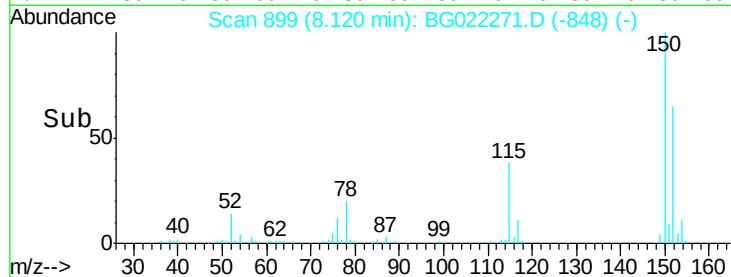
115 58.9 62.2 93.2#



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: 39.78 ng

RT: 5.67 min Scan# 482

Delta R.T. 0.00 min

Lab File: BG022271.D

Acq: 9 Jun 2016 16:32

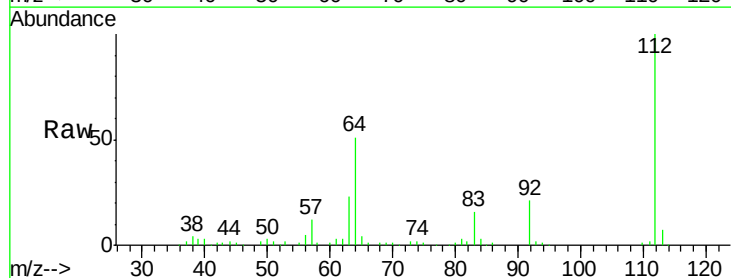
Tgt Ion:112 Resp: 118722

Ion Ratio Lower Upper

112 100

64 50.7 51.1 76.7#

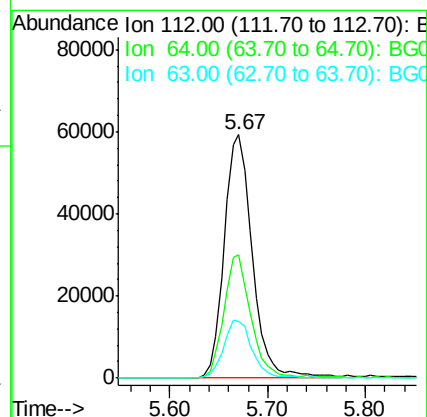
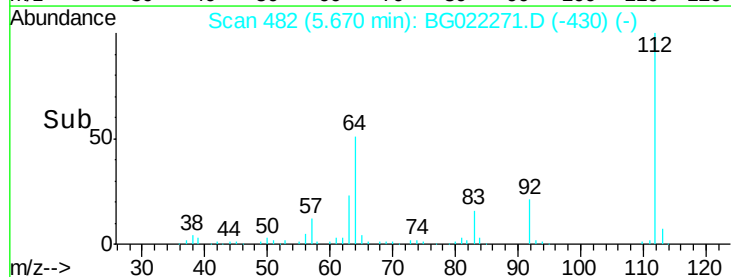
63 23.2 24.6 37.0#

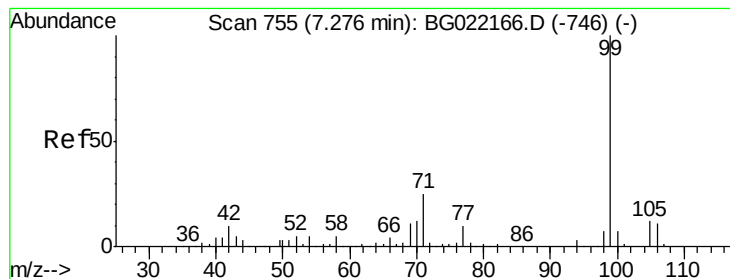


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 37.24 ng

RT: 7.28 min Scan# 756

Delta R.T. 0.00 min

Lab File: BG022271.D

Acq: 9 Jun 2016 16:32

Instrument :

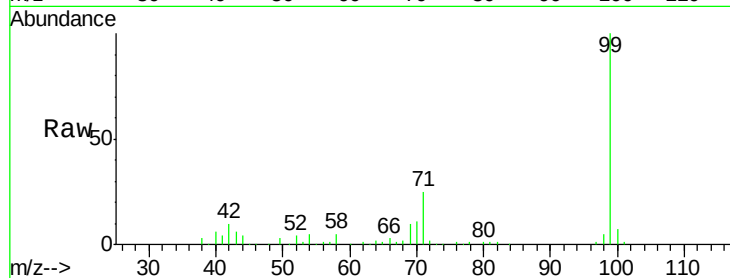
BNA_G

ClientSampleId :

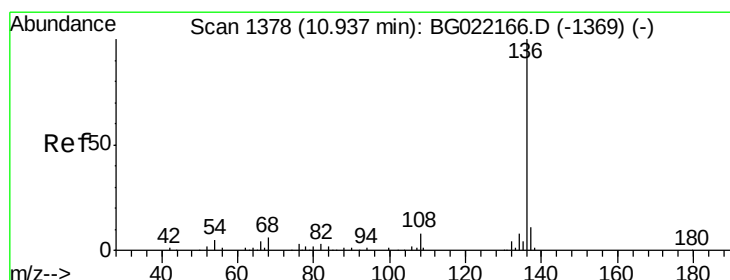
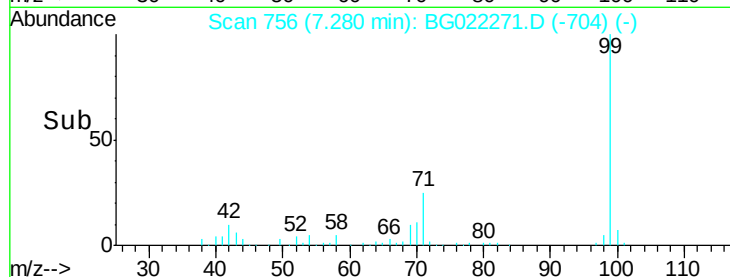
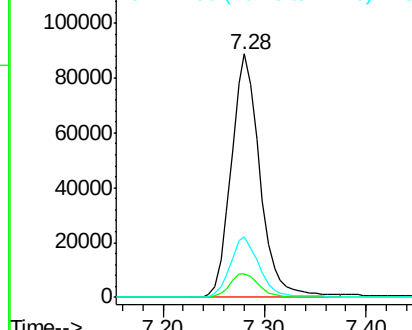
SS-40

Tot Ion: 99 Resp: 174728

Ion	Ratio	Lower	Upper
99	100		
42	9.6	16.4	24.6#
71	25.1	25.0	37.4



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.94 min Scan# 1379

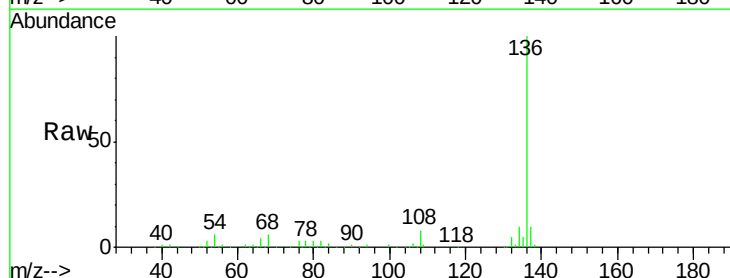
Delta R.T. 0.00 min

Lab File: BG022271.D

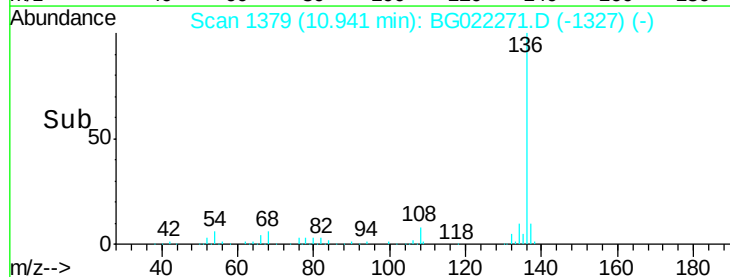
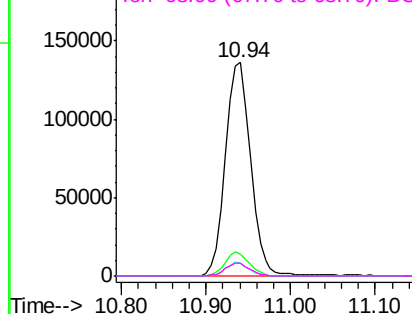
Acq: 9 Jun 2016 16:32

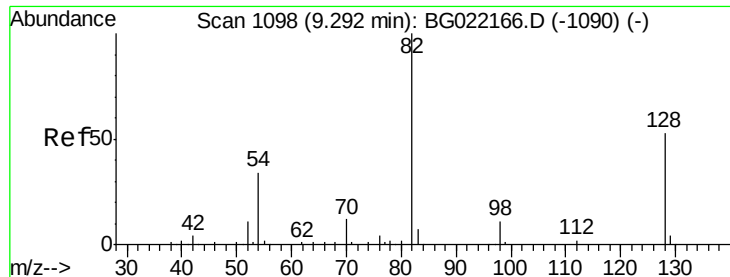
Tgt Ion: 136 Resp: 282616

Ion	Ratio	Lower	Upper
136	100		
137	10.5	9.0	13.4
54	6.1	9.6	14.4#
68	5.8	6.4	9.6#



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: 24.27 ng

RT: 9.29 min Scan# 1098

Delta R.T. -0.00 min

Lab File: BG022271.D

Acq: 9 Jun 2016 16:32

Instrument :

BNA_G

ClientSampleId :

SS-40

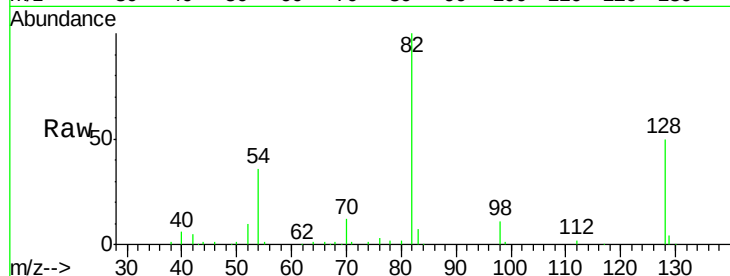
Tot Ion: 82 Resp: 98379

Ion Ratio Lower Upper

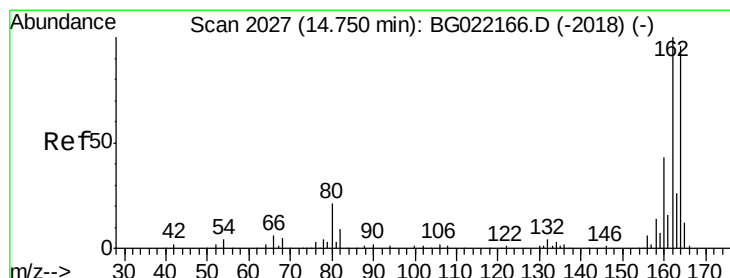
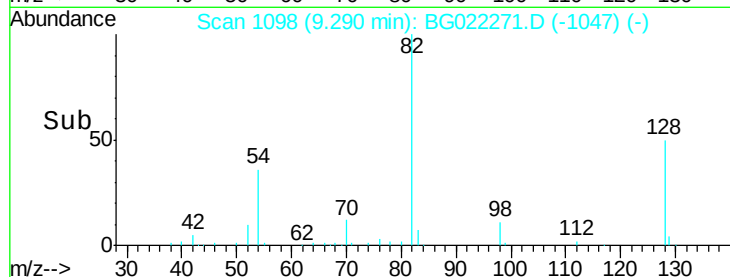
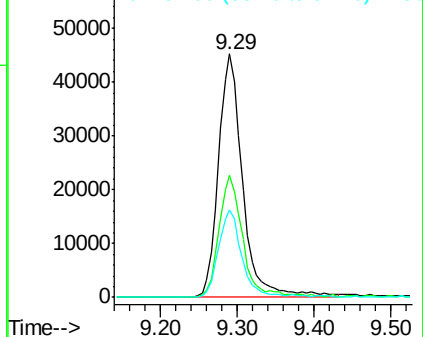
82 100

128 50.2 33.4 50.0#

54 35.9 46.1 69.1#



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



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.75 min Scan# 2027

Delta R.T. -0.00 min

Lab File: BG022271.D

Acq: 9 Jun 2016 16:32

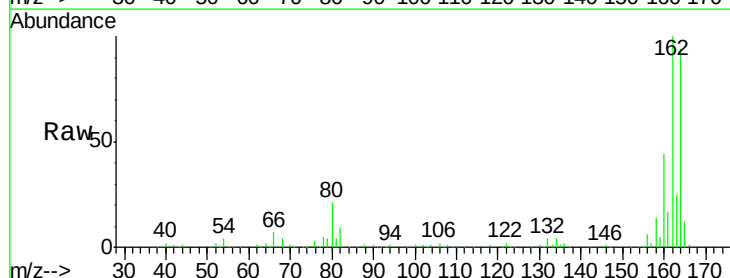
Tgt Ion:164 Resp: 154031

Ion Ratio Lower Upper

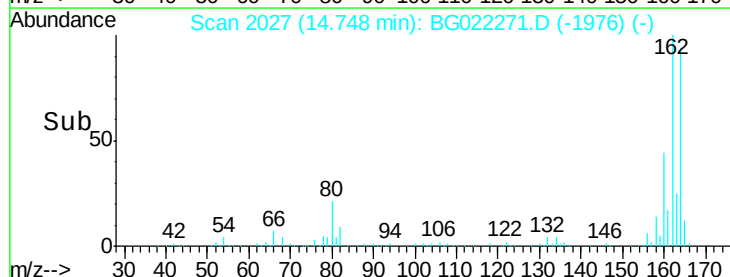
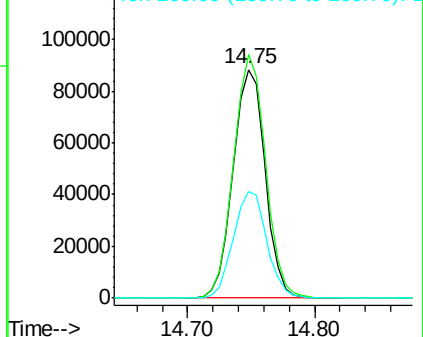
164 100

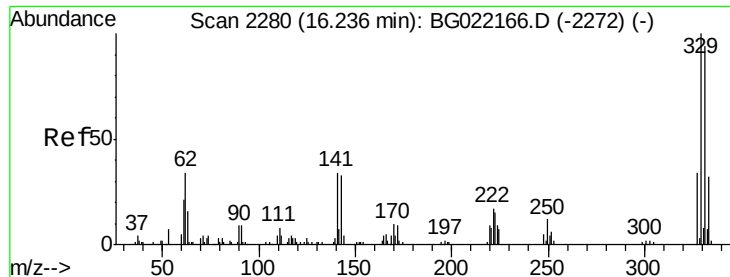
162 106.5 78.0 117.0

160 46.9 32.9 49.3



Abundance Ion 164.00 (163.70 to 164.70): BGC
Ion 162.00 (161.70 to 162.70): BGC
Ion 160.00 (159.70 to 160.70): BGC

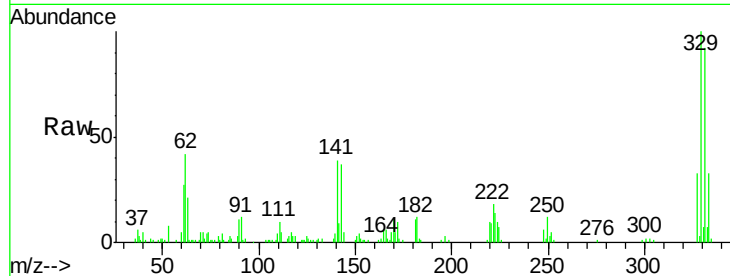




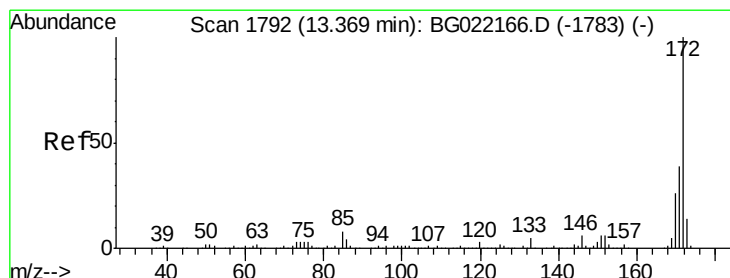
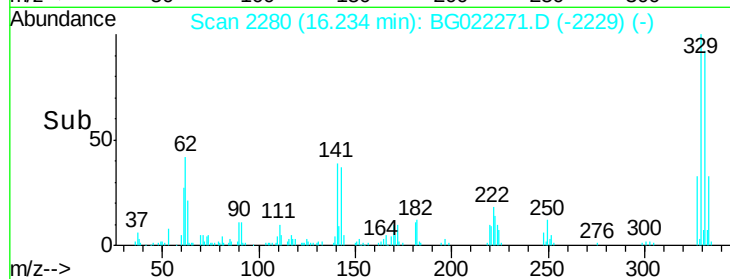
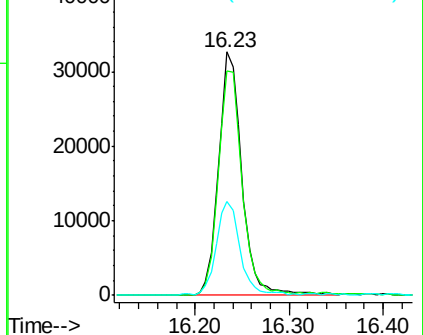
#41
 2,4,6-Tribromophenol
 Concen: 32.45 ng
 RT: 16.23 min Scan# 2280
 Delta R.T. -0.00 min
 Lab File: BG022271.D
 Acq: 9 Jun 2016 16:32

Instrument :
 BNA_G
 ClientSampleId :
 SS-40

Tot Ion:330 Resp: 56483
 Ion Ratio Lower Upper
 330 100
 332 95.2 78.0 117.0
 141 39.5 33.8 50.8

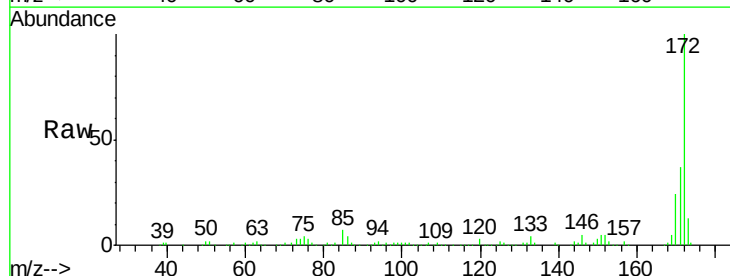


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

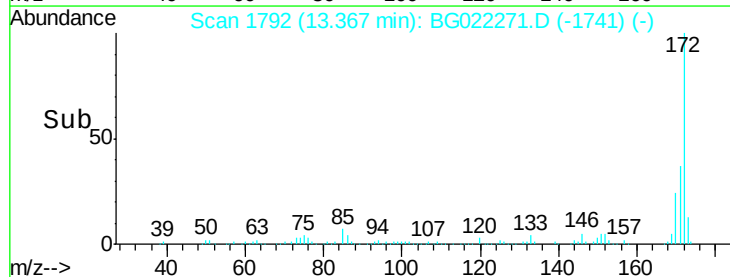
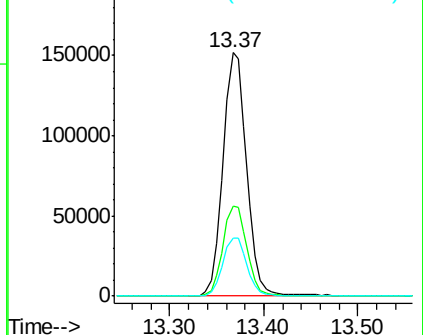


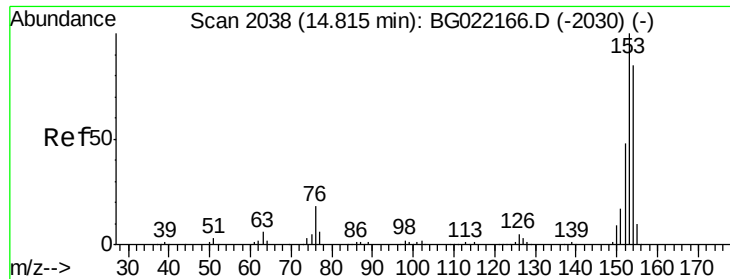
#44
 2-Fluorobiphenyl
 Concen: 26.34 ng
 RT: 13.37 min Scan# 1792
 Delta R.T. -0.00 min
 Lab File: BG022271.D
 Acq: 9 Jun 2016 16:32

Tgt Ion:172 Resp: 266259
 Ion Ratio Lower Upper
 172 100
 171 37.2 27.8 41.6
 170 24.0 19.6 29.4



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#51

Acenaphthene

Concen: 2.69 ng

RT: 14.81 min Scan# 2038

Delta R.T. -0.00 min

Lab File: BG022271.D

Acq: 9 Jun 2016 16:32

Instrument :

BNA_G

ClientSampleId :

SS-40

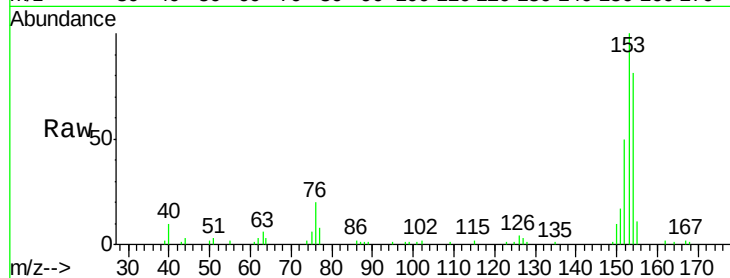
Tot Ion:154 Resp: 25129

Ion Ratio Lower Upper

154 100

153 123.7 91.9 137.9

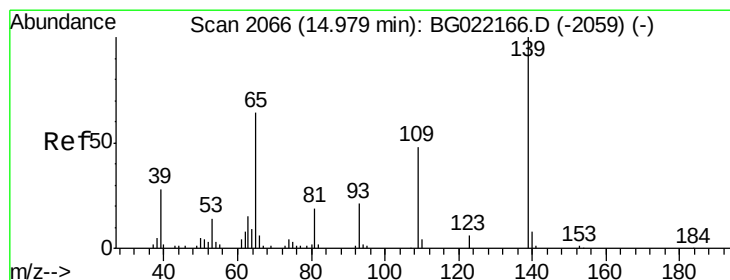
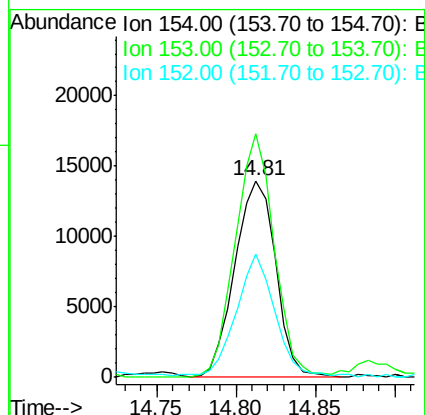
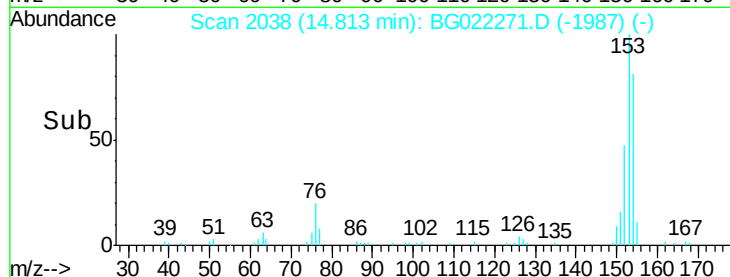
152 62.3 42.0 63.0



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#55

4-Nitrophenol

Concen: 3.25 ng

RT: 15.15 min Scan# 2095

Delta R.T. 0.17 min

Lab File: BG022271.D

Acq: 9 Jun 2016 16:32

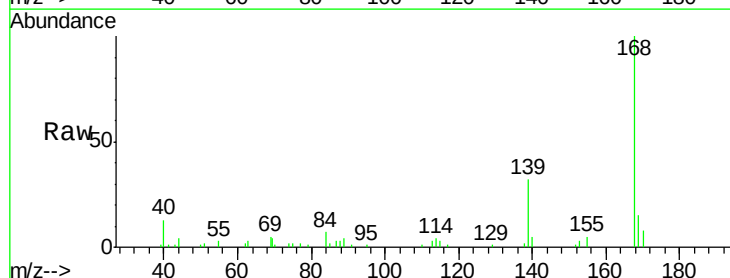
Tgt Ion:139 Resp: 6897

Ion Ratio Lower Upper

139 100

109 0.0 49.2 89.2#

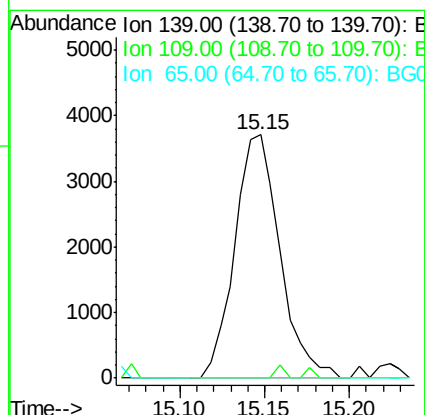
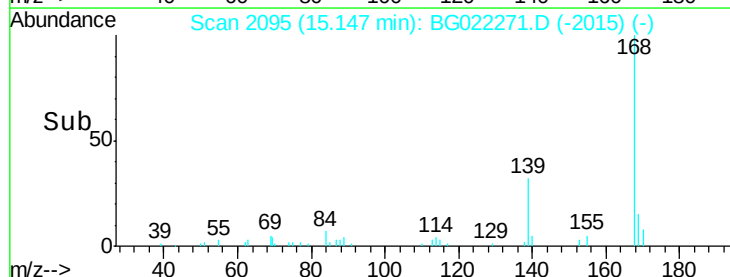
65 0.0 83.2 123.2#

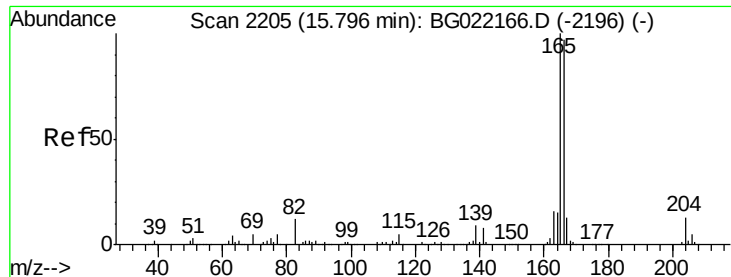


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BG

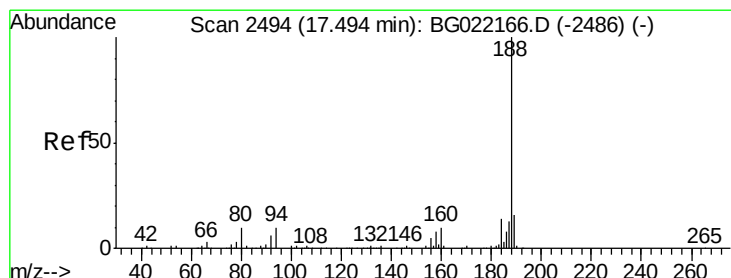
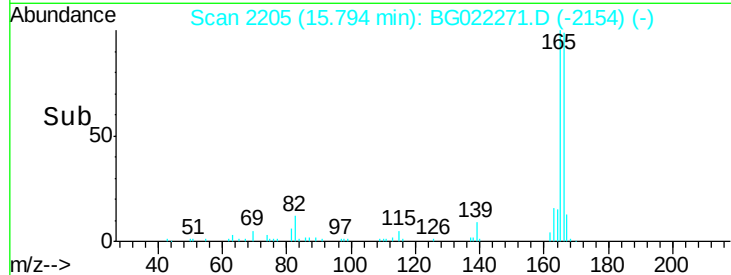
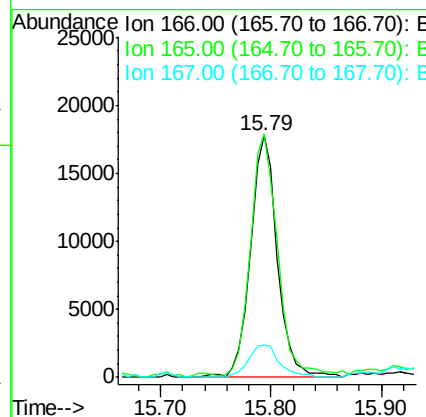
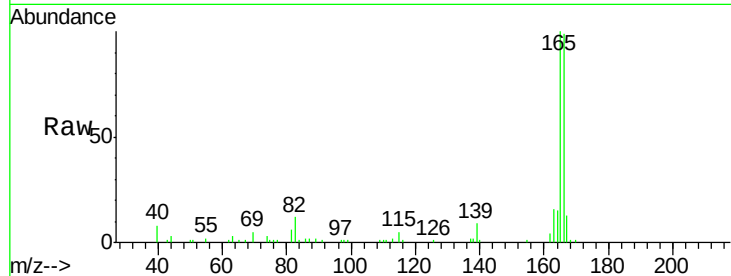




#57
Fluorene
 Concen: 2.41 ng
 RT: 15.79 min Scan# 2205
 Delta R.T. -0.00 min
 Lab File: BG022271.D
 Acq: 9 Jun 2016 16:32

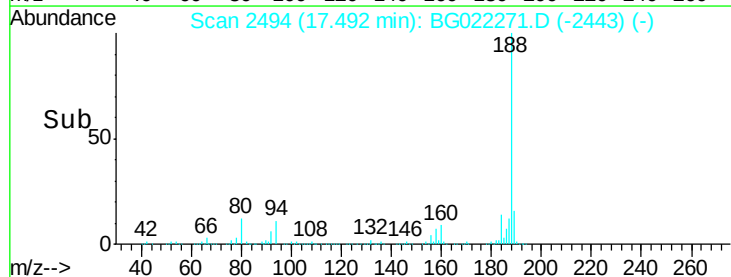
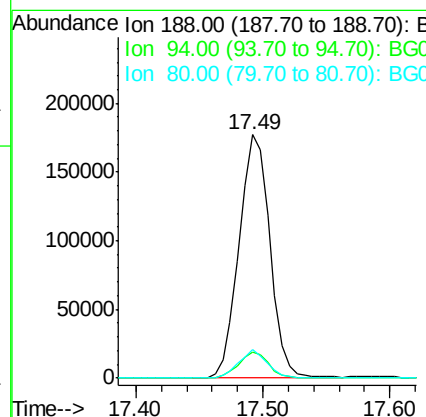
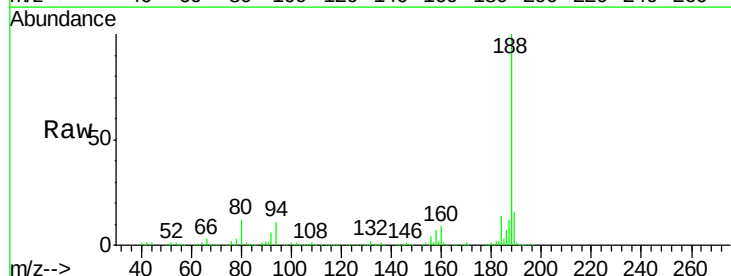
Instrument :
 BNA_G
 ClientSampleId :
 SS-40

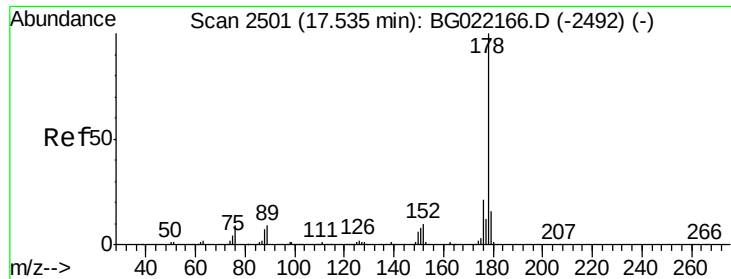
Tot Ion	166	Resp	30208
Ion Ratio	Lower	Upper	
166	100		
165	100.6	79.0	118.4
167	13.1	10.7	16.1



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 17.49 min Scan# 2494
 Delta R.T. -0.00 min
 Lab File: BG022271.D
 Acq: 9 Jun 2016 16:32

Tgt Ion	188	Resp	299595
Ion Ratio	Lower	Upper	
188	100		
94	10.5	7.5	11.3
80	11.5	8.6	13.0





#70

Phenanthrene

Concen: 22.61 ng

RT: 17.53 min Scan# 2501

Delta R.T. -0.00 min

Lab File: BG022271.D

Acq: 9 Jun 2016 16:32

Instrument :

BNA_G

ClientSampleId :

SS-40

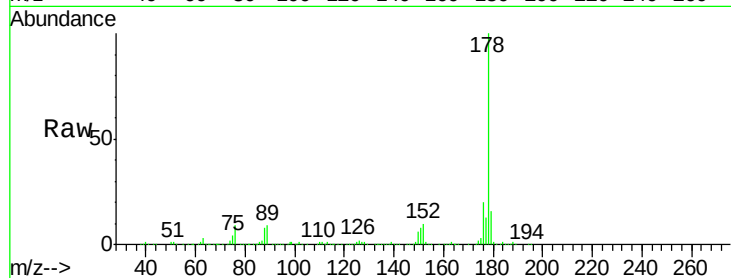
Tot Ion:178 Resp: 367918

Ion Ratio Lower Upper

178 100

176 20.4 16.2 24.4

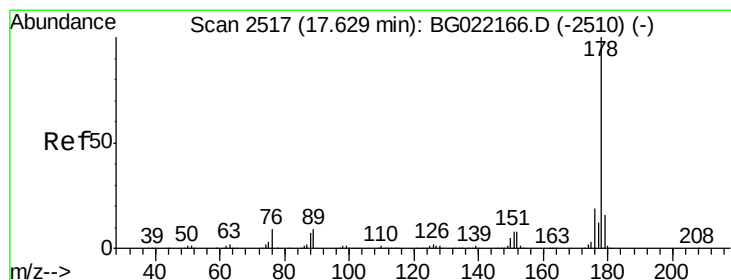
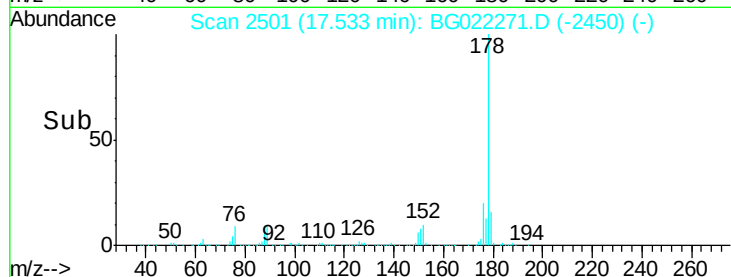
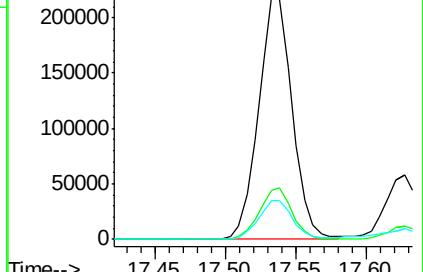
179 15.9 12.0 18.0



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: 5.82 ng

RT: 17.63 min Scan# 2517

Delta R.T. -0.00 min

Lab File: BG022271.D

Acq: 9 Jun 2016 16:32

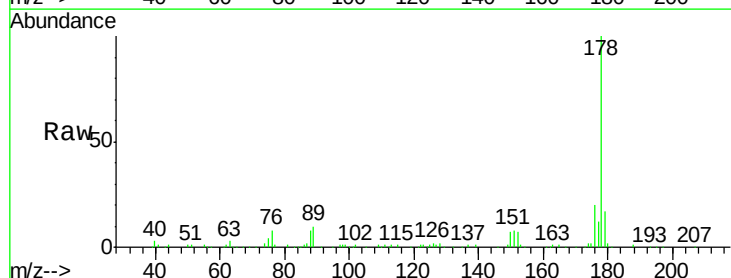
Tgt Ion:178 Resp: 93993

Ion Ratio Lower Upper

178 100

176 19.7 15.0 22.4

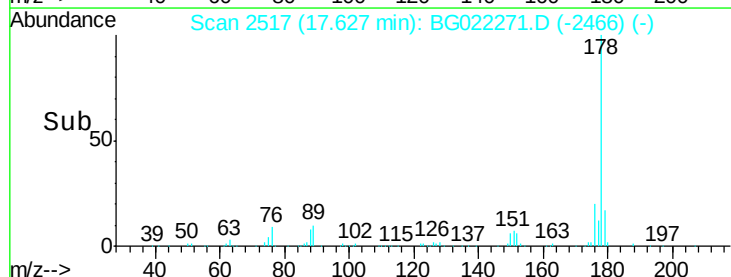
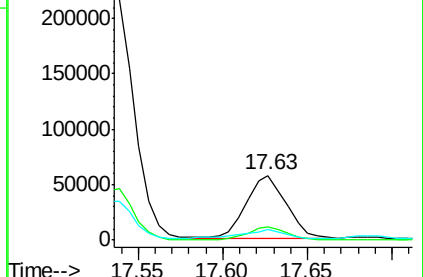
179 16.7 12.2 18.4

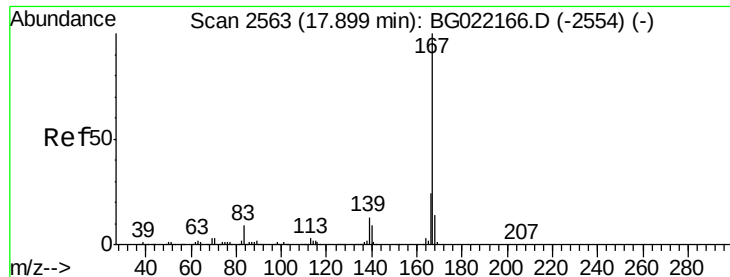


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.40 ng

RT: 17.90 min Scan# 2563

Delta R.T. -0.00 min

Lab File: BG022271.D

Acq: 9 Jun 2016 16:32

Instrument :

BNA_G

ClientSampleId :

SS-40

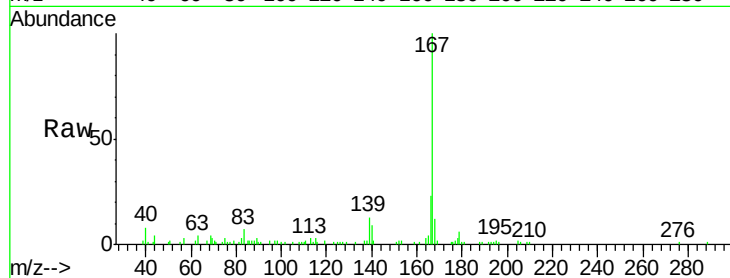
Tot Ion:167 Resp: 36619

Ion Ratio Lower Upper

167 100

166 23.2 18.6 27.8

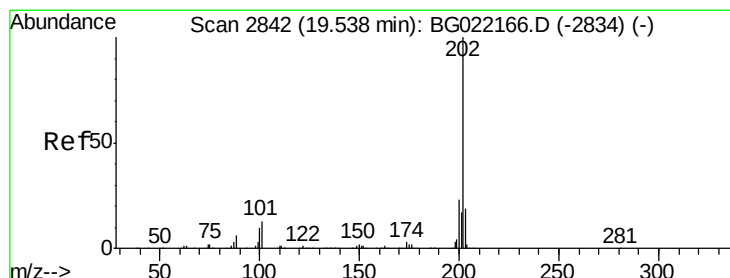
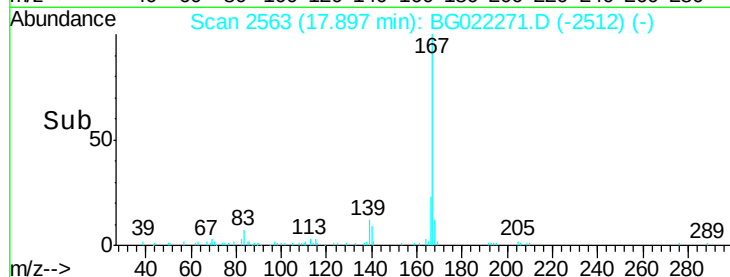
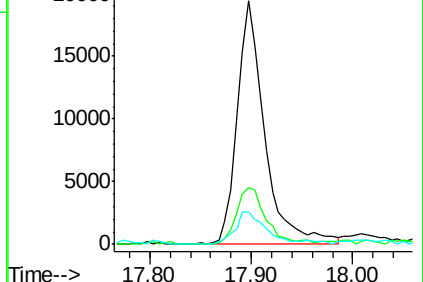
139 13.3 10.6 15.8



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 28.71 ng

RT: 19.54 min Scan# 2842

Delta R.T. -0.00 min

Lab File: BG022271.D

Acq: 9 Jun 2016 16:32

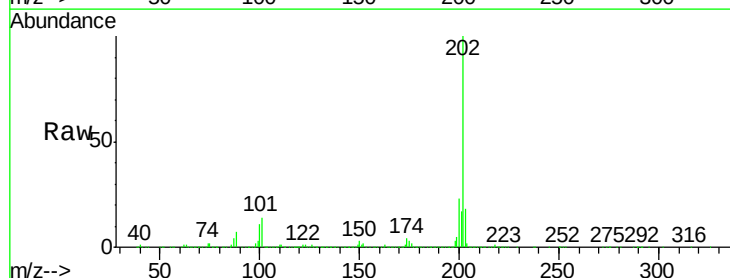
Tgt Ion:202 Resp: 537047

Ion Ratio Lower Upper

202 100

101 14.0 0.0 31.0

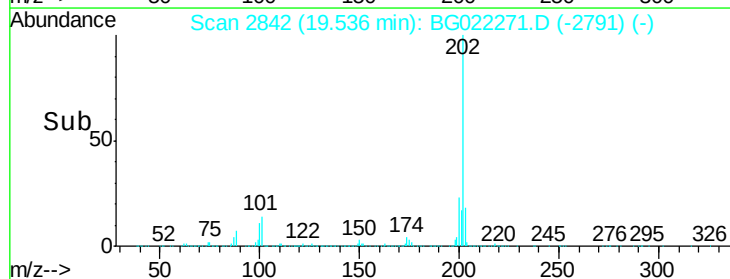
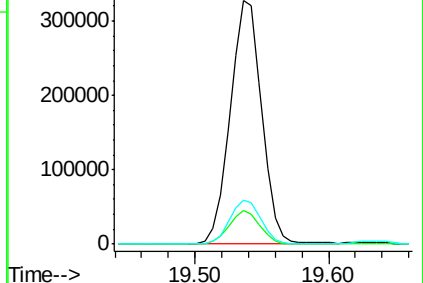
203 18.0 0.0 37.9

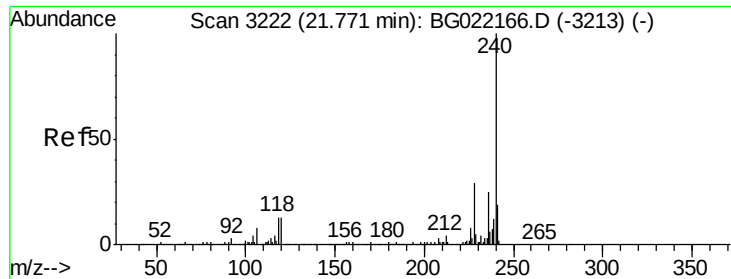


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.77 min Scan# 3222

Delta R.T. -0.00 min

Lab File: BG022271.D

Acq: 9 Jun 2016 16:32

Instrument :

BNA_G

ClientSampleId :

SS-40

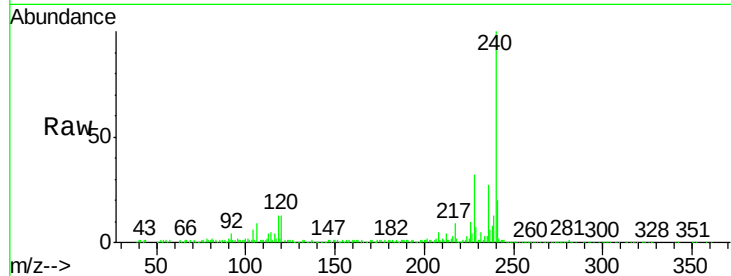
Tot Ion:240 Resp: 249182

Ion Ratio Lower Upper

240 100

120 13.5 8.4 12.6#

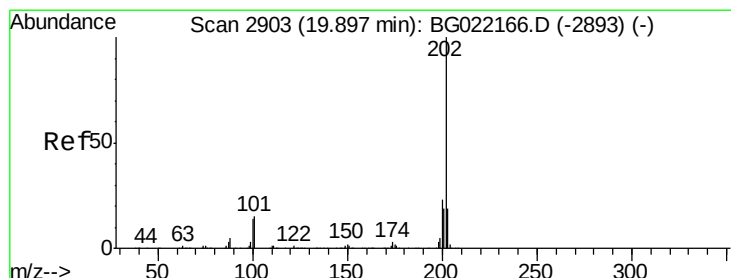
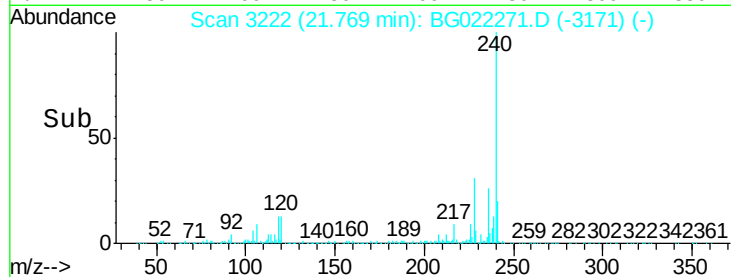
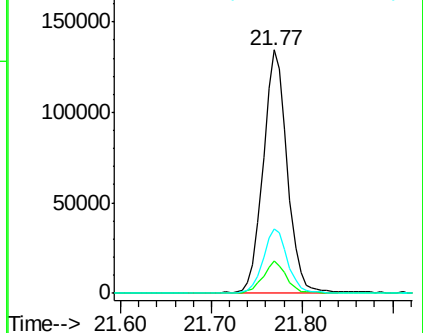
236 26.6 19.6 29.4



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 30.58 ng

RT: 19.90 min Scan# 2904

Delta R.T. 0.00 min

Lab File: BG022271.D

Acq: 9 Jun 2016 16:32

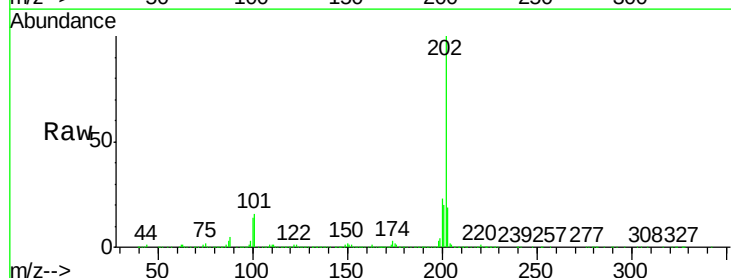
Tgt Ion:202 Resp: 473736

Ion Ratio Lower Upper

202 100

200 22.6 18.2 27.2

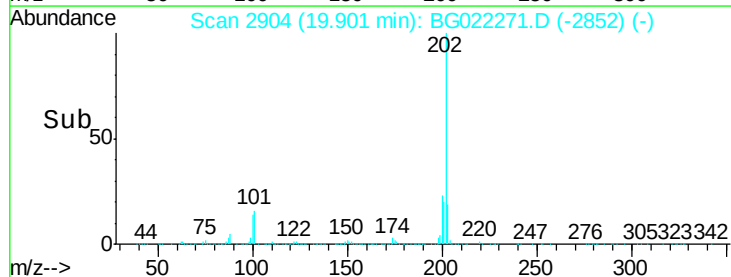
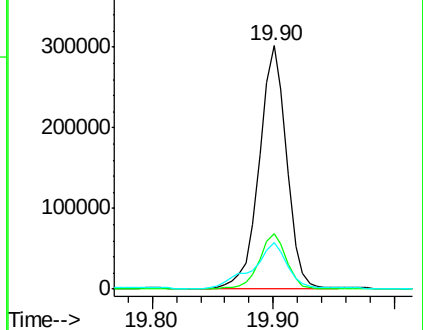
203 19.1 15.0 22.4

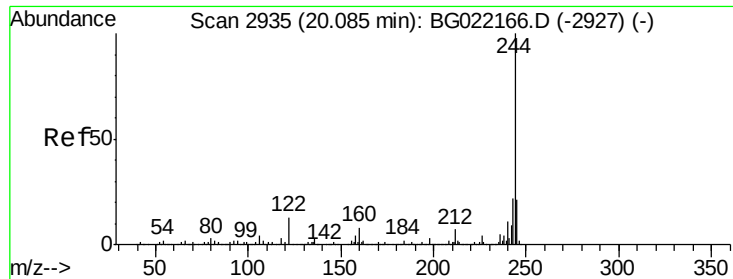


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

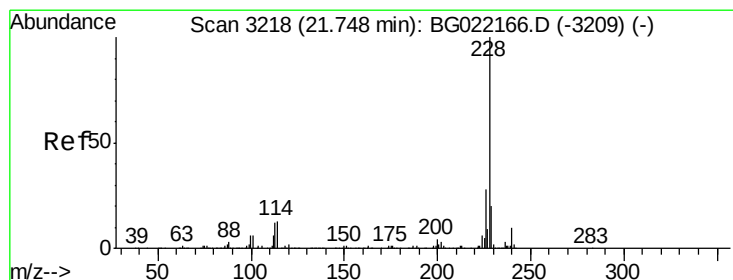
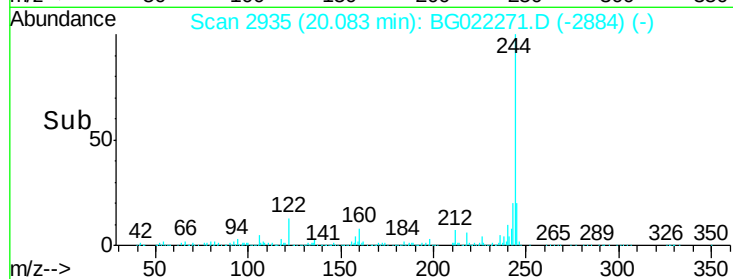
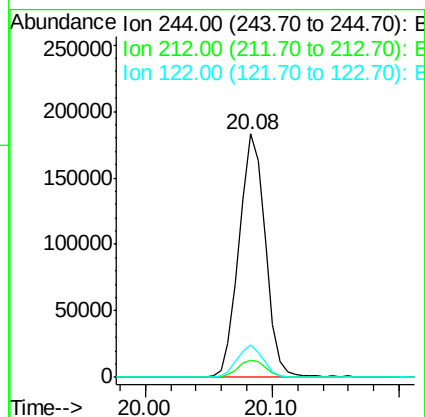
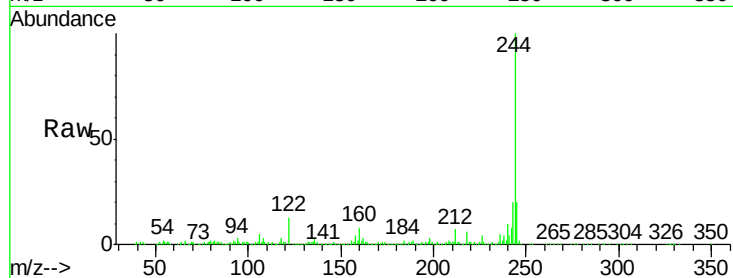




#78
 Terphenyl-d14
 Concen: 25.09 ng
 RT: 20.08 min Scan# 2935
 Delta R.T. -0.00 min
 Lab File: BG022271.D
 Acq: 9 Jun 2016 16:32

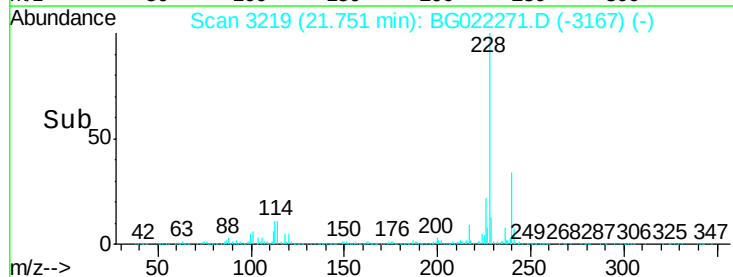
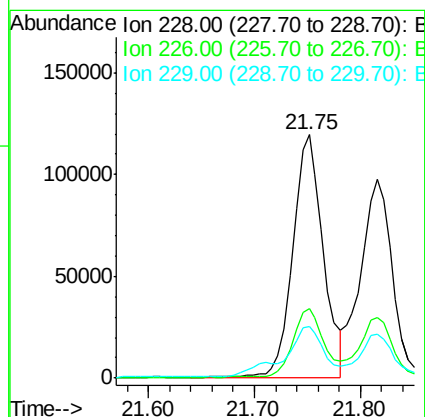
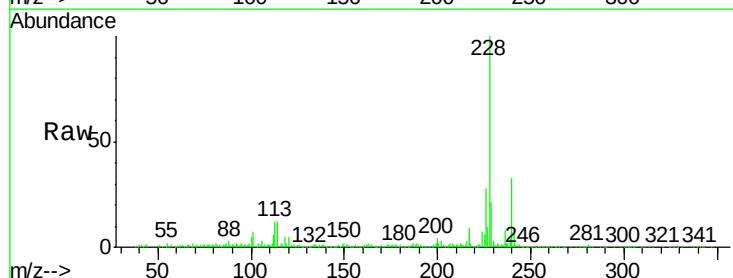
Instrument :
 BNA_G
 ClientSampled :
 SS-40

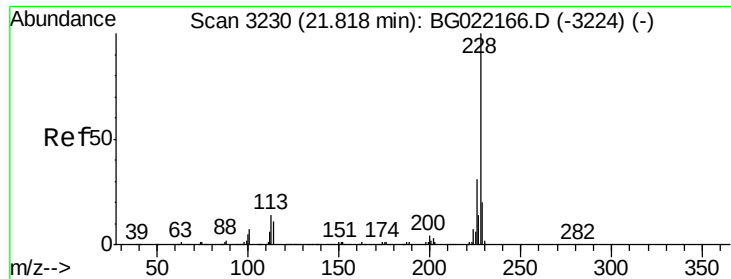
Tot Ion	Ratio	Lower	Upper
244	100		
212	6.9	6.5	9.7
122	13.1	8.6	12.8#



#80
 Benzo(a)anthracene
 Concen: 17.10 ng
 RT: 21.75 min Scan# 3219
 Delta R.T. 0.00 min
 Lab File: BG022271.D
 Acq: 9 Jun 2016 16:32

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.6	34.0
229	21.1	16.1	24.1





#82

Chrysene

Concen: 15.09 ng

RT: 21.82 min Scan# 3230

Delta R.T. -0.00 min

Lab File: BG022271.D

Acq: 9 Jun 2016 16:32

Instrument :

BNA_G

ClientSampleId :

SS-40

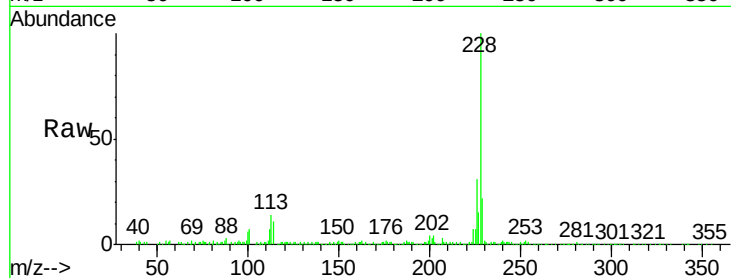
Tot Ion:228 Resp: 205240

Ion Ratio Lower Upper

228 100

226 30.7 25.4 38.0

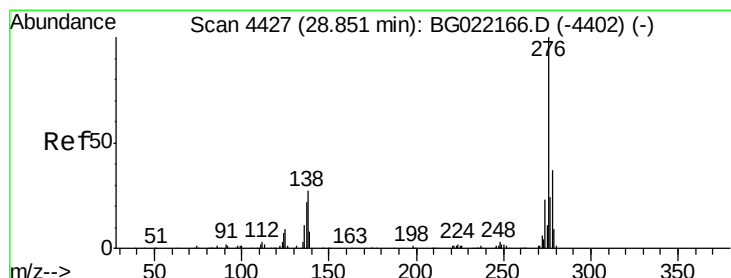
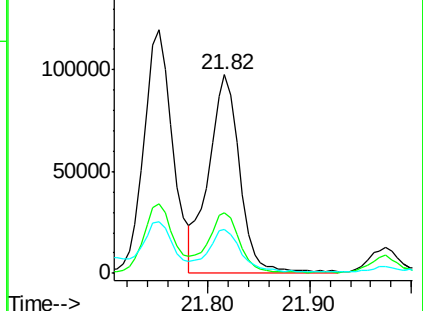
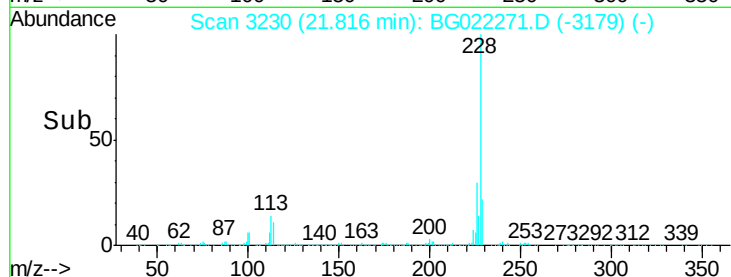
229 22.4 15.9 23.9



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 5.45 ng m

RT: 28.85 min Scan# 4428

Delta R.T. 0.00 min

Lab File: BG022271.D

Acq: 9 Jun 2016 16:32

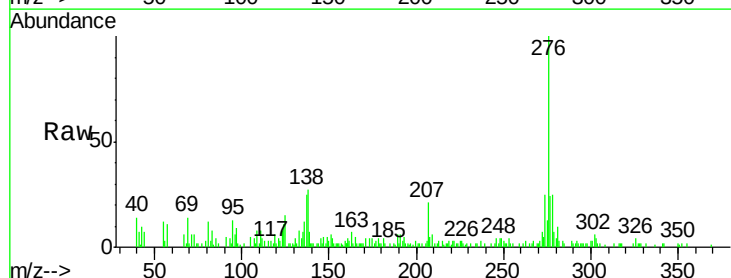
Tgt Ion:276 Resp: 83186

Ion Ratio Lower Upper

276 100

138 6.7 14.0 21.0#

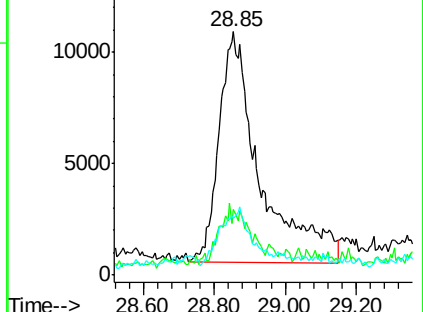
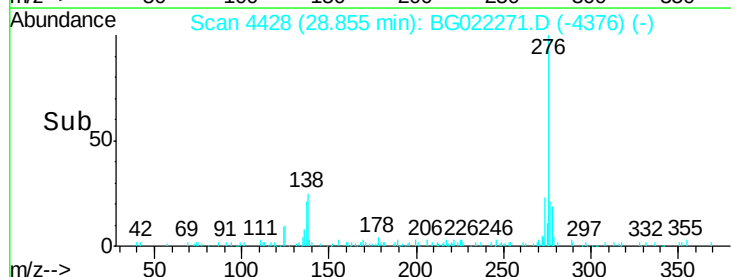
277 0.0 20.6 30.8#

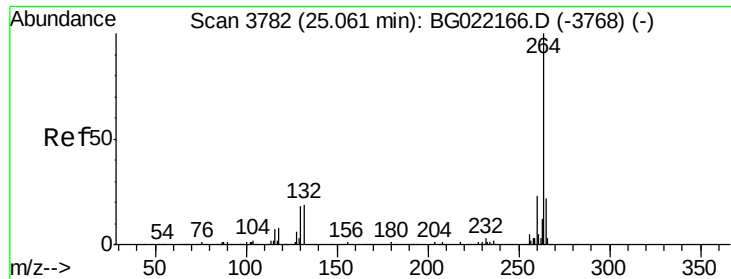


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



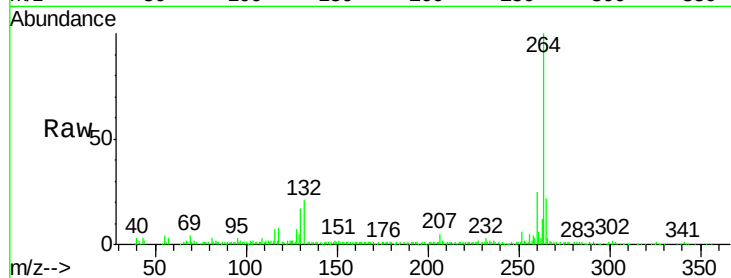


#86
Pervlene-d12
Concen: 20.00 ng
RT: 25.07 min Scan# 3784
Delta R.T. 0.01 min
Lab File: BG022271.D
Acq: 9 Jun 2016 16:32

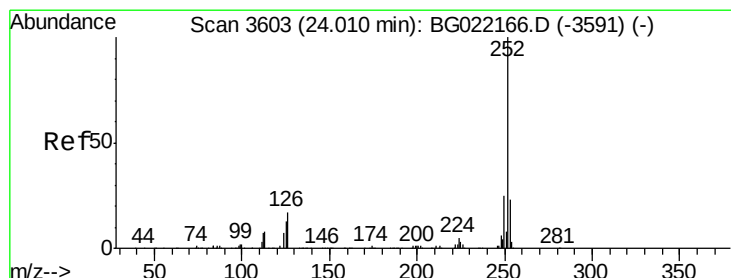
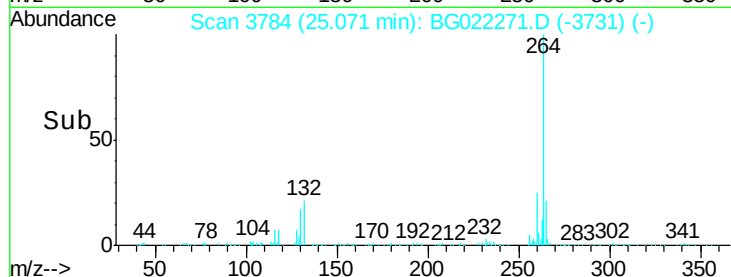
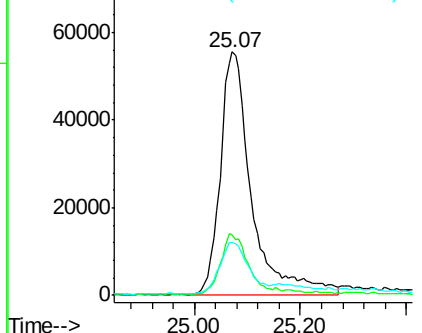
Instrument :
BNA_G
ClientSampleId :
SS-40

Tot Ion:264 Resp: 225408

Ion	Ratio	Lower	Upper
264	100		
260	24.9	20.2	30.4
265	21.9	17.8	26.8



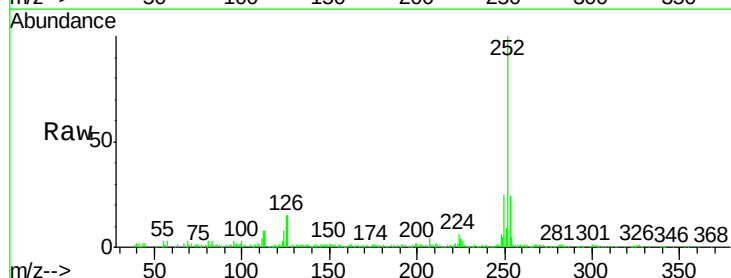
Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



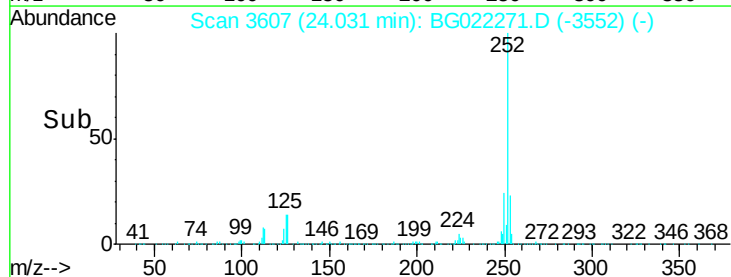
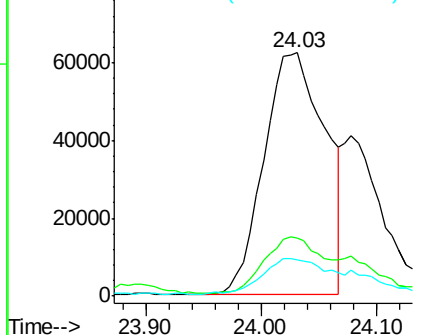
#87
Benzo(b)fluoranthene
Concen: 17.40 ng
RT: 24.03 min Scan# 3607
Delta R.T. 0.02 min
Lab File: BG022271.D
Acq: 9 Jun 2016 16:32

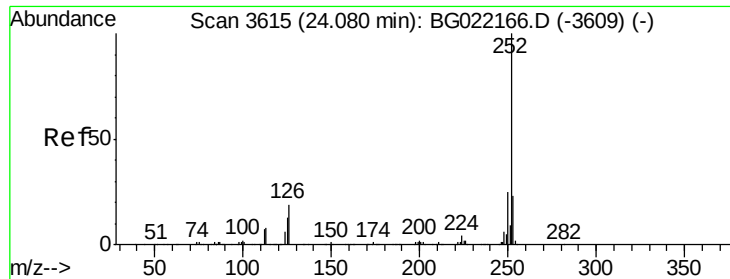
Tgt Ion:252 Resp: 228682

Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.5	26.3
125	15.0	8.6	13.0



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

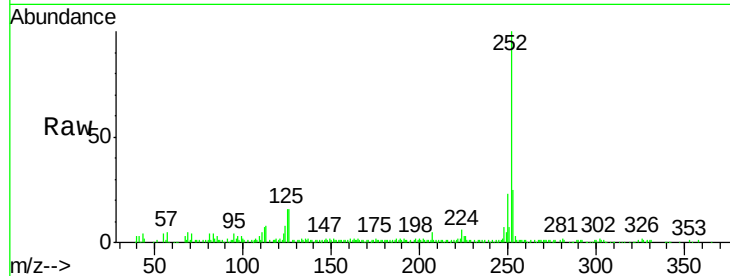




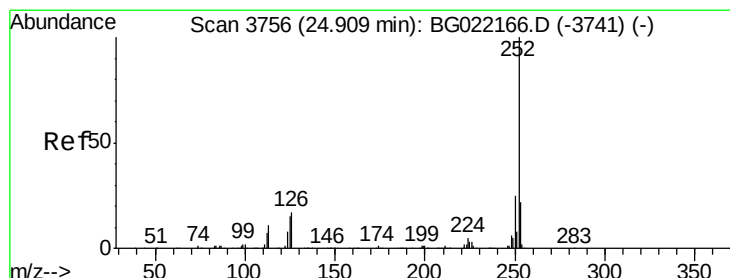
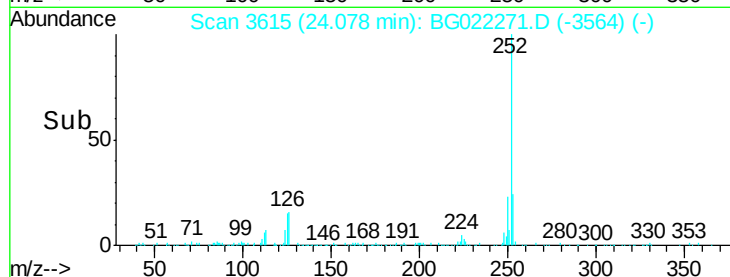
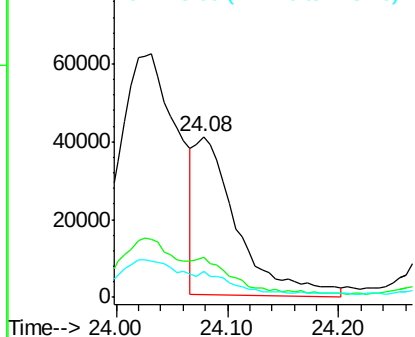
#88
Benzo(k)fluoranthene
Concen: 8.35 ng m
RT: 24.08 min Scan# 3615
Delta R.T. -0.00 min
Lab File: BG022271.D
Acq: 9 Jun 2016 16:32

Instrument :
BNA_G
ClientSampleId :
SS-40

Tot Ion:252 Resp: 108045
Ion Ratio Lower Upper
252 100
253 25.0 17.8 26.8
125 16.3 8.3 12.5#

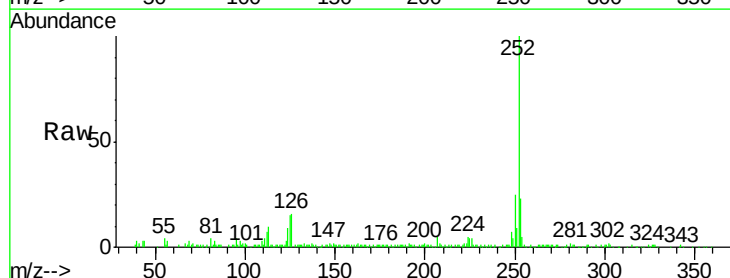


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

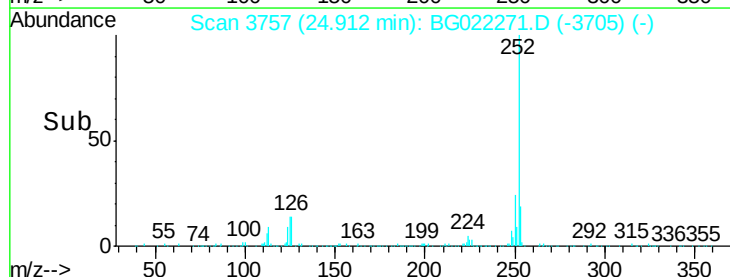
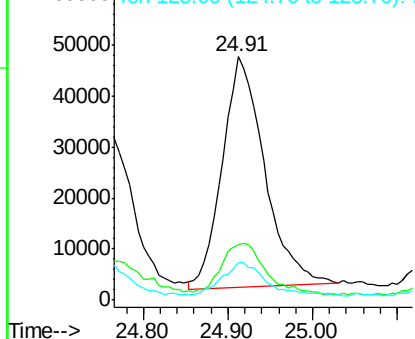


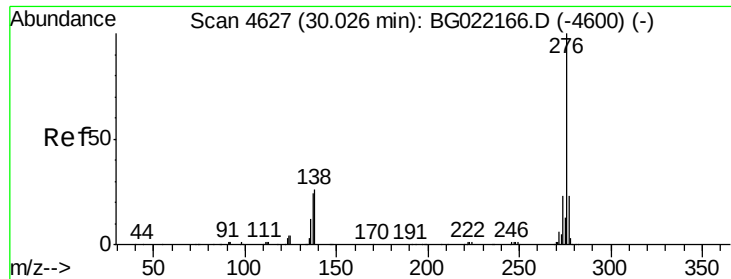
#89
Benzo(a)pyrene
Concen: 12.53 ng
RT: 24.91 min Scan# 3757
Delta R.T. 0.00 min
Lab File: BG022271.D
Acq: 9 Jun 2016 16:32

Tgt Ion:252 Resp: 157496
Ion Ratio Lower Upper
252 100
253 22.5 17.1 25.7
125 15.5 9.6 14.4#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#91
 Benzo(a,h,i)perylene
 Concen: 5.71 ng/ml
 RT: 30.04 min Scan# 4629
 Delta R.T. 0.01 min
 Lab File: BG022271.D
 Acq: 9 Jun 2016 16:32

Instrument :
 BNA_G
 ClientSampleId :
 SS-40

Tot Ion	Ion	Ratio	Lower	Upper
276	100			
277	26.6	19.4	29.2	
138	31.2	17.4	26.0	

