

Data Path : Z:\HPCHEM1\BNA G\DATA\BG062116\
 Data File : BG022498.D
 Acq On : 22 Jun 2016 14:09
 Operator : UM/SJ
 Sample : H3471-28DL 5X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Jun 22 14:55:05 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG060616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 22 01:27:56 2016
 Response via : Initial Calibration

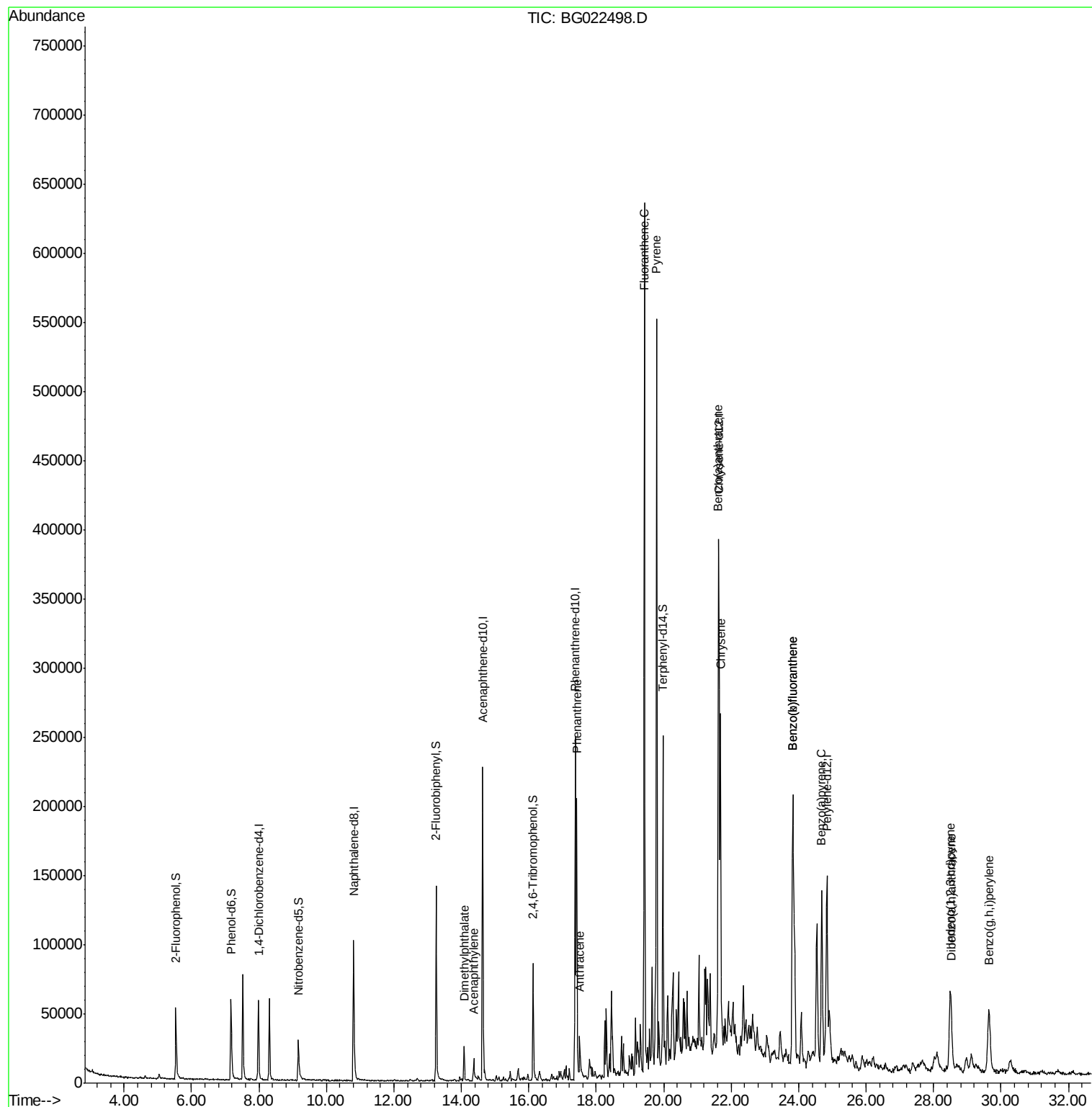
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.99	152	23098	20.00	ng	0.00
21) Naphthalene-d8	10.81	136	130678	20.00	ng	0.00
38) Acenaphthene-d10	14.63	164	83857	20.00	ng	0.00
63) Phenanthrene-d10	17.37	188	170501	20.00	ng	0.00
75) Chrysene-d12	21.63	240	144775	20.00	ng	0.00
86) Perylene-d12	24.84	264	131529	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.54	112	42169	35.30	ng	0.00
7) Phenol-d6	7.17	99	67679	36.03	ng	-0.01
23) Nitrobenzene-d5	9.17	82	31718	16.92	ng	0.00
41) 2,4,6-Tribromophenol	16.13	330	18473	19.50	ng	0.00
44) 2-Fluorobiphenyl	13.25	172	99266	18.04	ng	0.00
78) Terphenyl-d14	19.98	244	101780	16.69	ng	0.00
Target Compounds						Qvalue
48) Acenaphthylene	14.37	152	24237	2.86	ng	99
49) Dimethylphthalate	14.08	163	24062	3.46	ng	# 95
70) Phenanthrene	17.42	178	143874	15.54	ng	97
71) Anthracene	17.51	178	27567	3.00	ng	95
74) Fluoranthene	19.43	202	404366	37.98	ng	94
77) Pyrene	19.79	202	346127	38.46	ng	98
80) Benzo(a)anthracene	21.62	228	170853	21.05	ng	98
82) Chrysene	21.68	228	154820	19.60	ng	97
85) Indeno(1,2,3-cd)pyrene	28.50	276	87178	9.84	ng	# 81
87) Benzo(b)fluoranthene	23.83	252	210508	27.44	ng	# 91
88) Benzo(k)fluoranthene	23.83	252	210508	27.88	ng	# 91
89) Benzo(a)pyrene	24.68	252	123359	16.82	ng	# 90
90) Dibenzo(a,h)anthracene	28.53	278	19153	2.77	ng	# 79
91) Benzo(g,h,i)perylene	29.64	276	82511	11.48	ng	# 85

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.99 min Scan# 876

Delta R.T. -0.00 min

Lab File: BG022498.D

Acq: 22 Jun 2016 14:09

Instrument :

BNA_G

ClientSampleId :

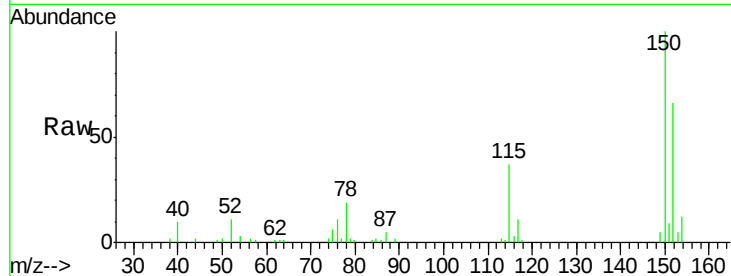
Tot Ion:152 Resp: 23098

Ion Ratio Lower Upper

152 100

150 152.2 130.1 195.1

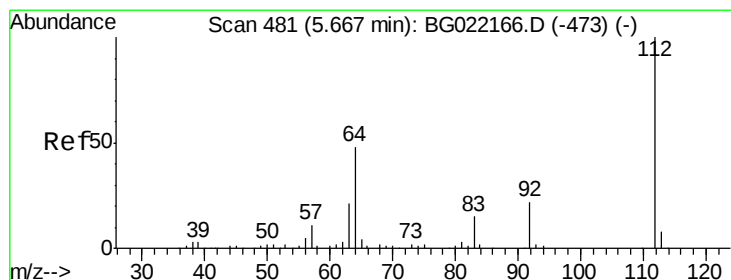
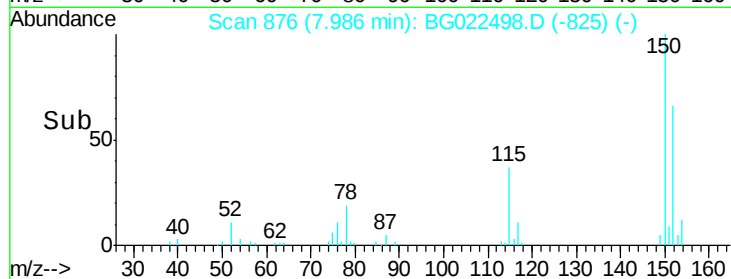
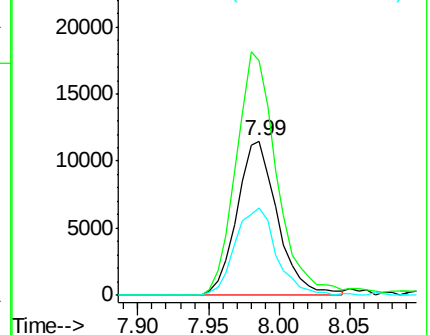
115 56.8 62.2 93.2#



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: 35.30 ng

RT: 5.54 min Scan# 459

Delta R.T. -0.01 min

Lab File: BG022498.D

Acq: 22 Jun 2016 14:09

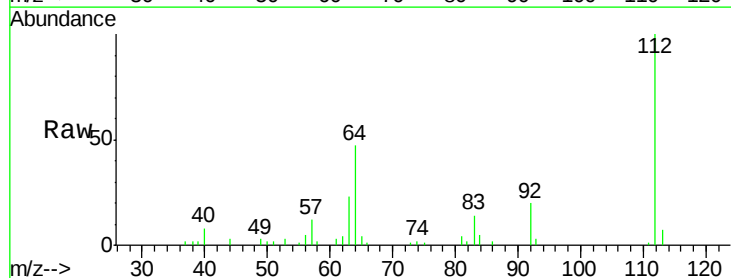
Tgt Ion:112 Resp: 42169

Ion Ratio Lower Upper

112 100

64 46.8 51.1 76.7#

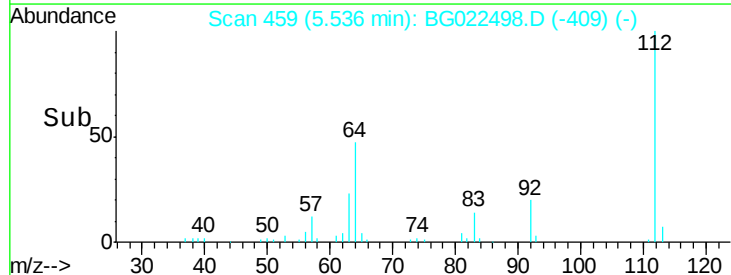
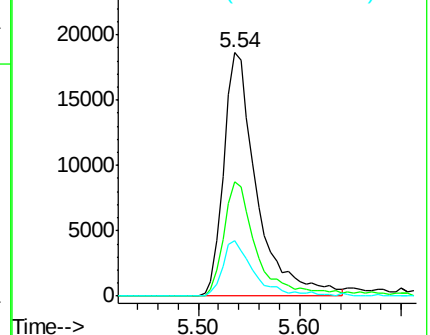
63 23.0 24.6 37.0#

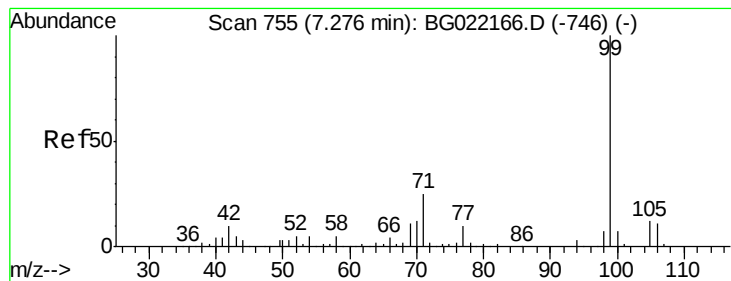


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 36.03 ng

RT: 7.17 min Scan# 737

Delta R.T. -0.01 min

Lab File: BG022498.D

Acq: 22 Jun 2016 14:09

Instrument :

BNA_G

ClientSampleId :

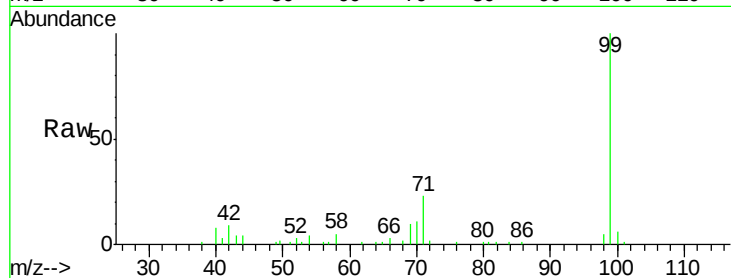
Tot Ion: 99 Resp: 67679

Ion Ratio Lower Upper

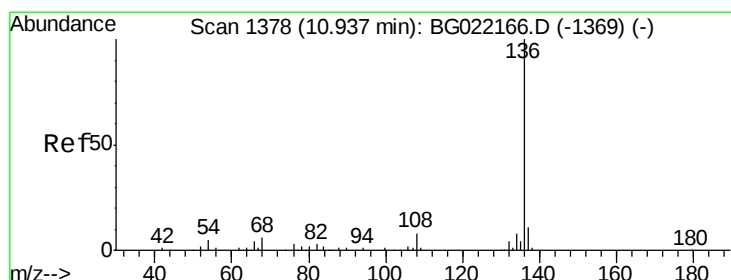
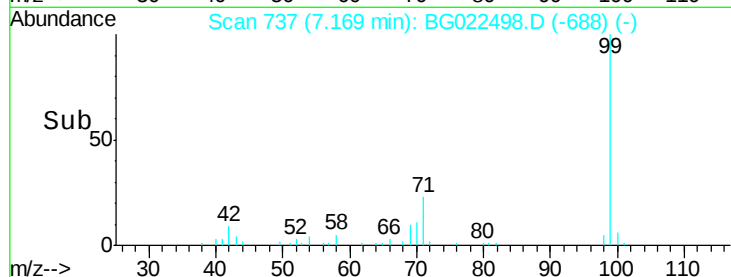
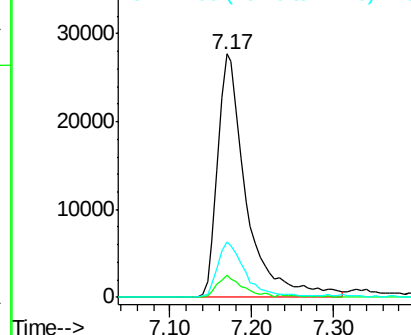
99 100

42 9.0 16.4 24.6#

71 22.6 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: 10.81 min Scan# 1356

Delta R.T. -0.00 min

Lab File: BG022498.D

Acq: 22 Jun 2016 14:09

Tgt Ion: 136 Resp: 130678

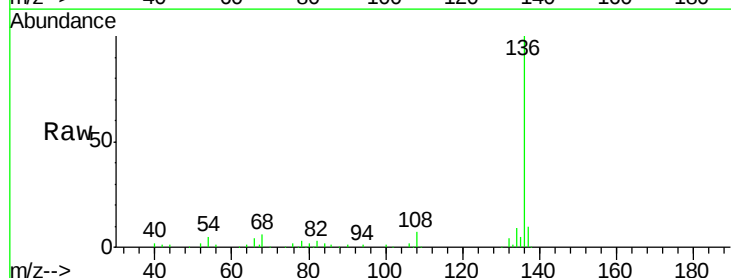
Ion Ratio Lower Upper

136 100

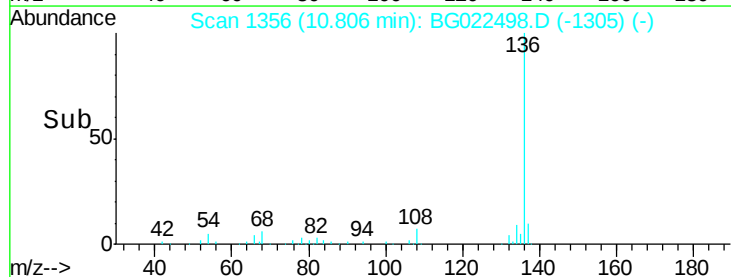
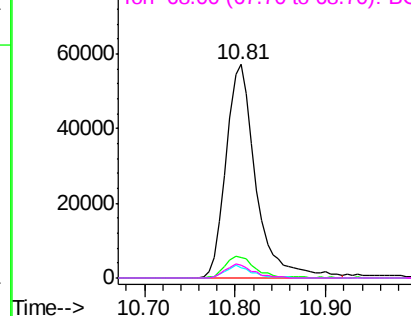
137 9.8 9.0 13.4

54 4.8 9.6 14.4#

68 6.3 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

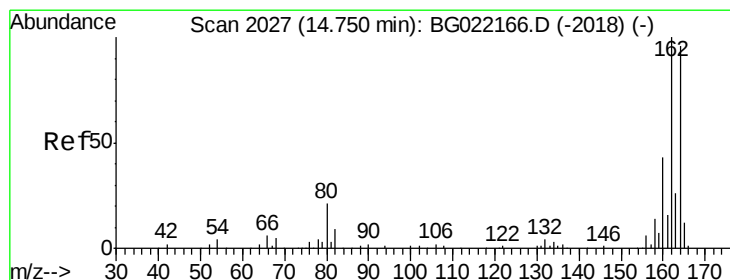
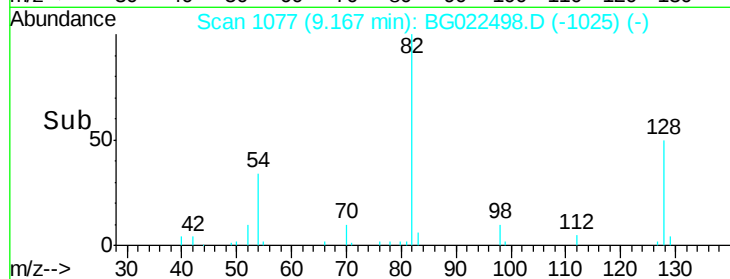
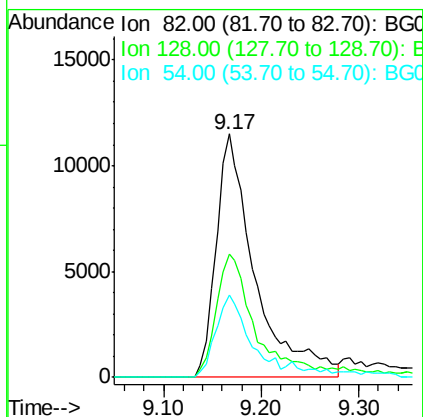
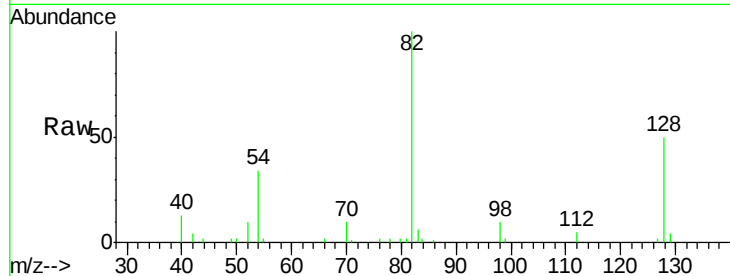




#23
 Nitrobenzene-d5
 Concen: 16.92 ng
 RT: 9.17 min Scan# 1077
 Delta R.T. 0.01 min
 Lab File: BG022498.D
 Acq: 22 Jun 2016 14:09

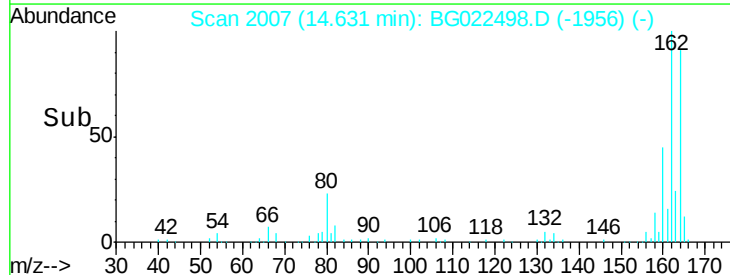
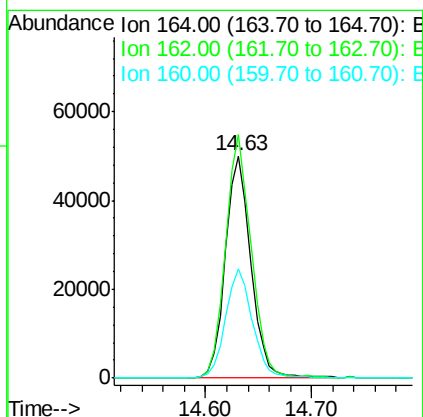
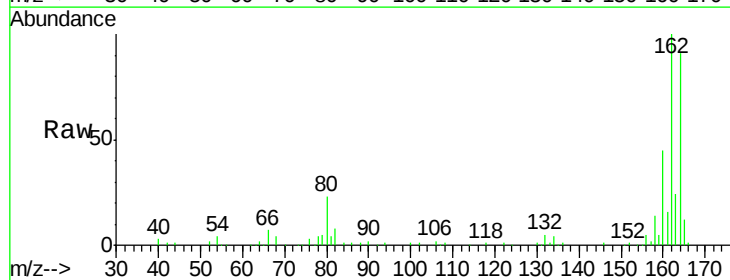
Instrument :
 BNA_G
 ClientSampleId :

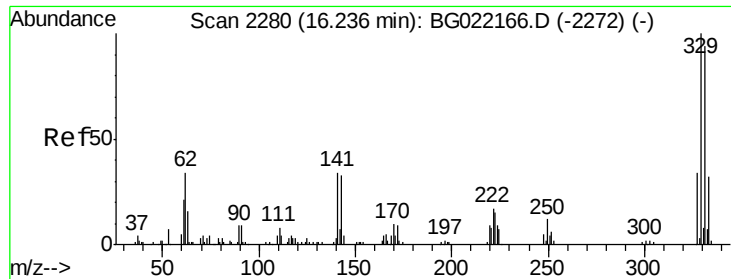
Tot Ion: 82 Resp: 31718
 Ion Ratio Lower Upper
 82 100
 128 50.5 33.4 50.0#
 54 34.1 46.1 69.1#



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 14.63 min Scan# 2007
 Delta R.T. -0.00 min
 Lab File: BG022498.D
 Acq: 22 Jun 2016 14:09

Tgt Ion: 164 Resp: 83857
 Ion Ratio Lower Upper
 164 100
 162 109.5 78.0 117.0
 160 49.2 32.9 49.3

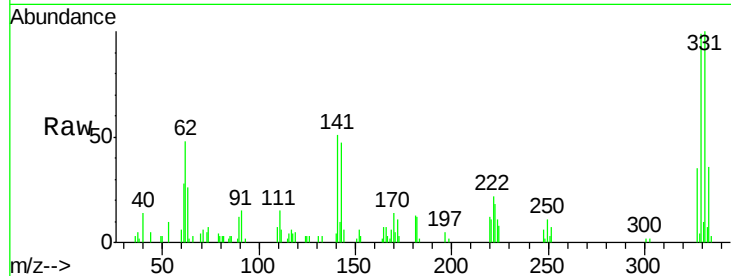




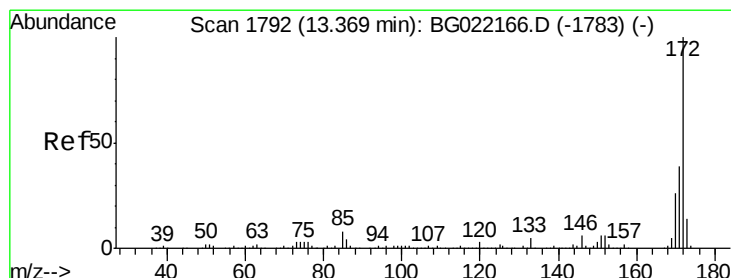
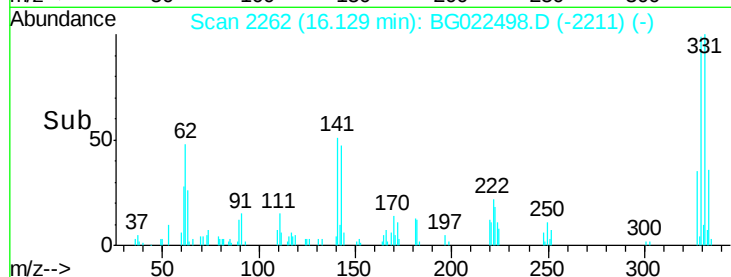
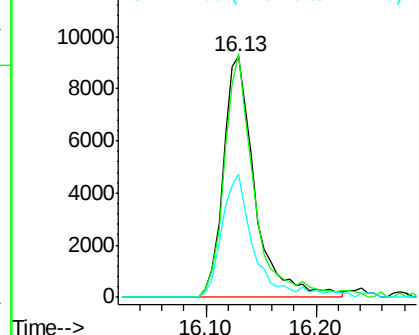
#41
 2,4,6-Tribromophenol
 Concen: 19.50 ng
 RT: 16.13 min Scan# 2262
 Delta R.T. -0.00 min
 Lab File: BG022498.D
 Acq: 22 Jun 2016 14:09

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	94.9	78.0	117.0
141	48.4	33.8	50.8

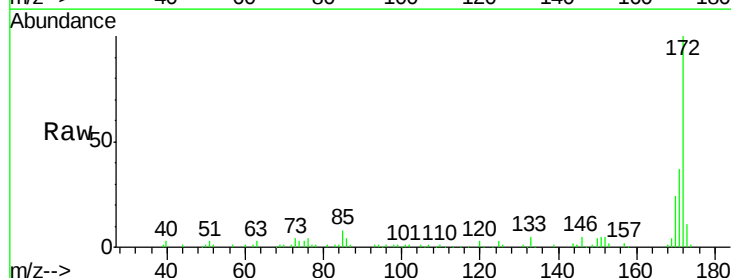


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

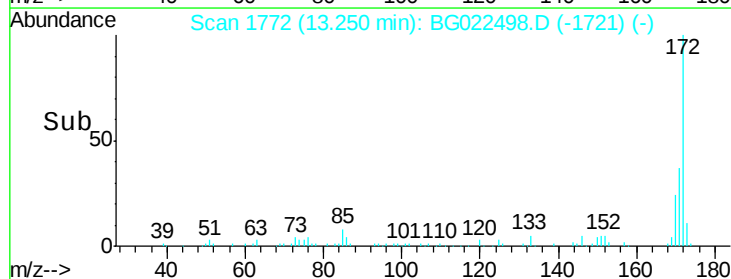
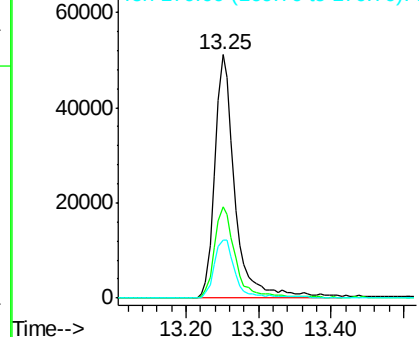


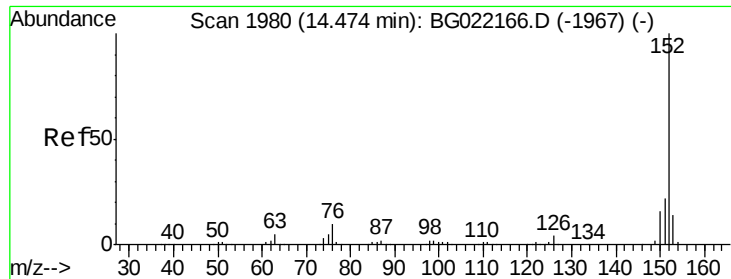
#44
 2-Fluorobiphenyl
 Concen: 18.04 ng
 RT: 13.25 min Scan# 1772
 Delta R.T. -0.00 min
 Lab File: BG022498.D
 Acq: 22 Jun 2016 14:09

Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.3	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





#48

Acenaphthylene

Concen: 2.86 ng

RT: 14.37 min Scan# 1962

Delta R.T. 0.01 min

Lab File: BG022498.D

Acq: 22 Jun 2016 14:09

Instrument :

BNA_G

ClientSampleId :

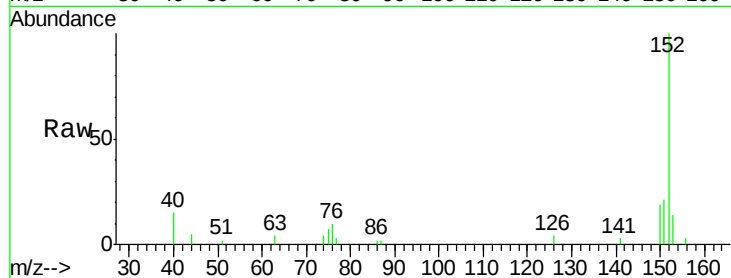
Tot Ion:152 Resp: 24237

Ion Ratio Lower Upper

152 100

151 20.9 16.6 24.8

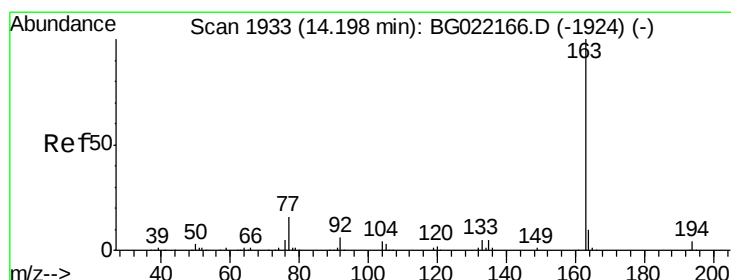
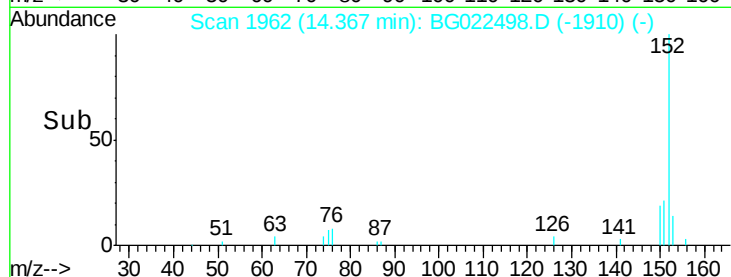
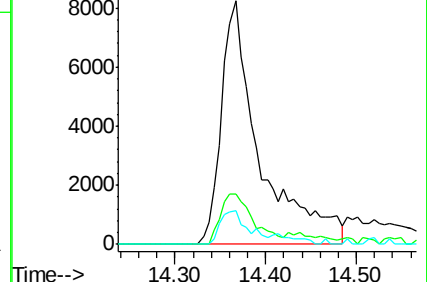
153 13.6 10.2 15.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 3.46 ng

RT: 14.08 min Scan# 1914

Delta R.T. -0.00 min

Lab File: BG022498.D

Acq: 22 Jun 2016 14:09

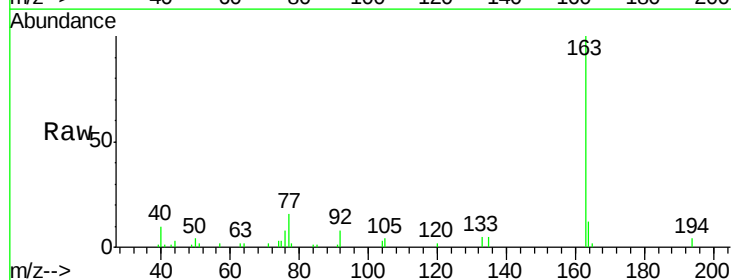
Tgt Ion:163 Resp: 24062

Ion Ratio Lower Upper

163 100

194 4.2 3.0 4.6

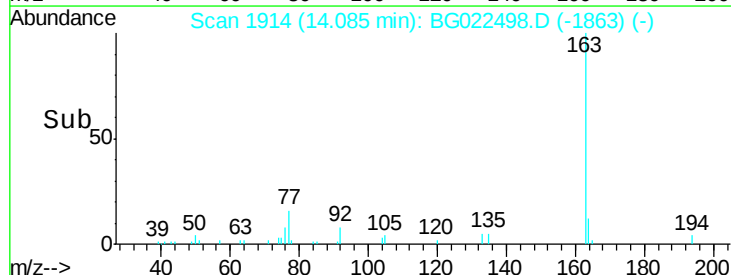
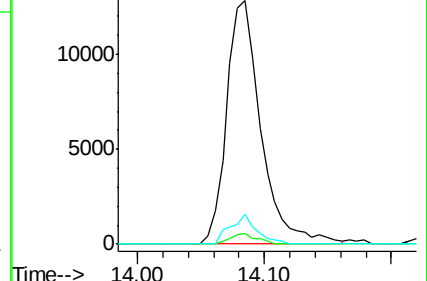
164 12.3 8.1 12.1#

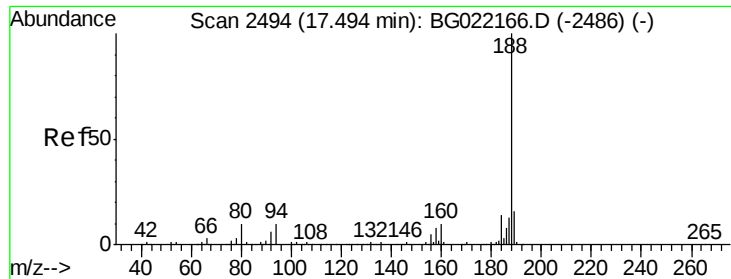


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

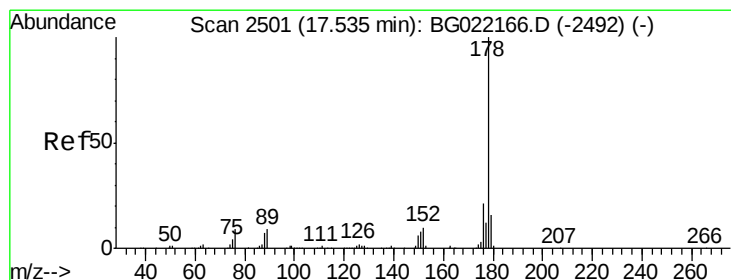
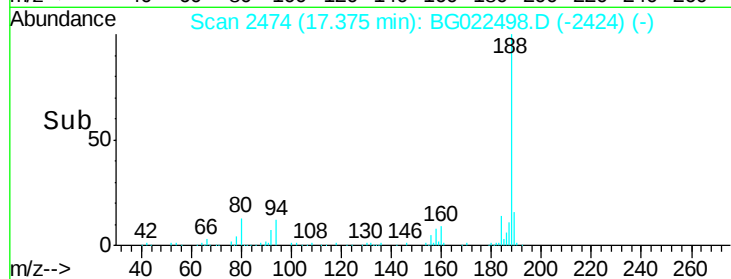
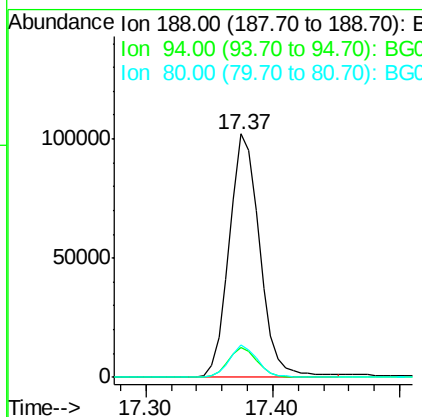
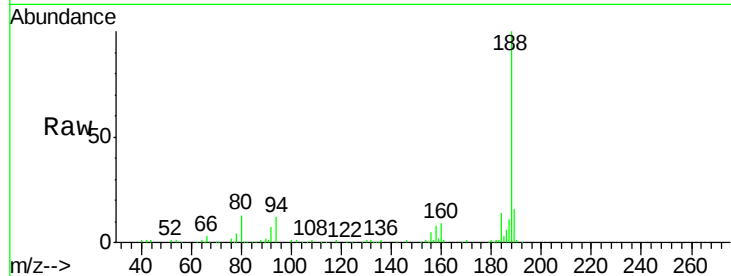




#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 17.37 min Scan# 2474
 Delta R.T. -0.01 min
 Lab File: BG022498.D
 Acq: 22 Jun 2016 14:09

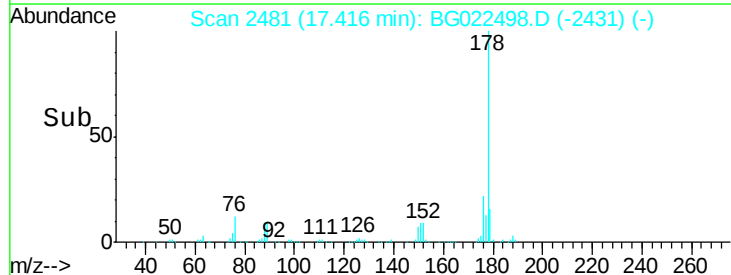
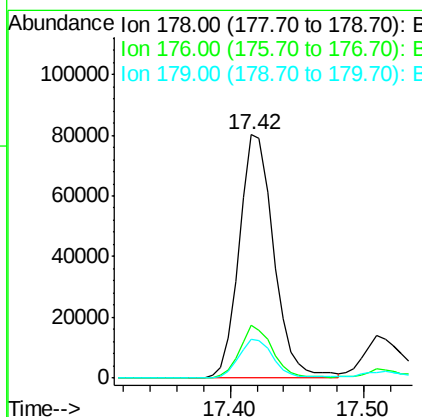
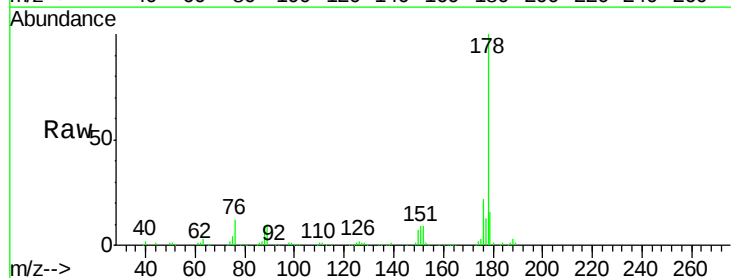
Instrument :
 BNA_G
 ClientSampleID :

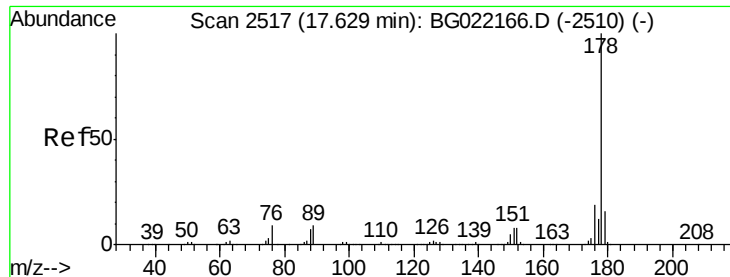
Tot Ion:188 Resp: 170501
 Ion Ratio Lower Upper
 188 100
 94 12.2 7.5 11.3#
 80 13.1 8.6 13.0#



#70
 Phenanthrene
 Concen: 15.54 ng
 RT: 17.42 min Scan# 2481
 Delta R.T. -0.01 min
 Lab File: BG022498.D
 Acq: 22 Jun 2016 14:09

Tgt Ion:178 Resp: 143874
 Ion Ratio Lower Upper
 178 100
 176 21.8 16.2 24.4
 179 16.0 12.0 18.0

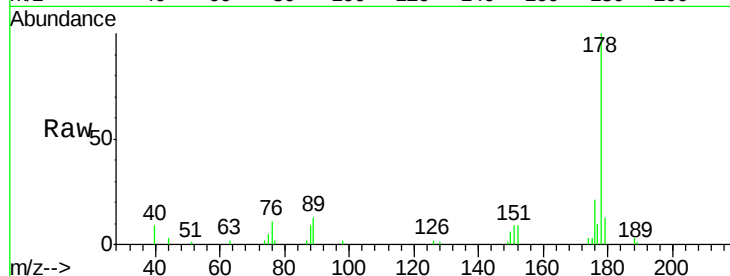




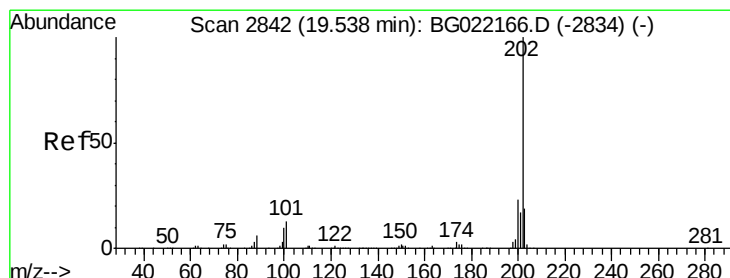
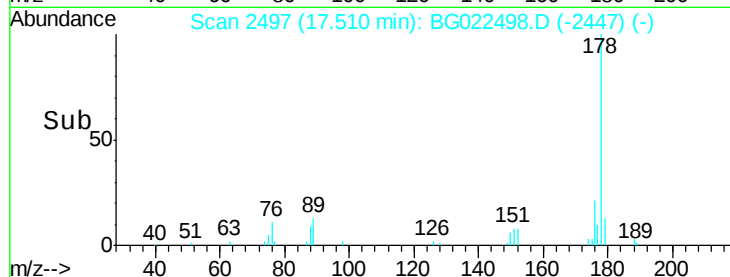
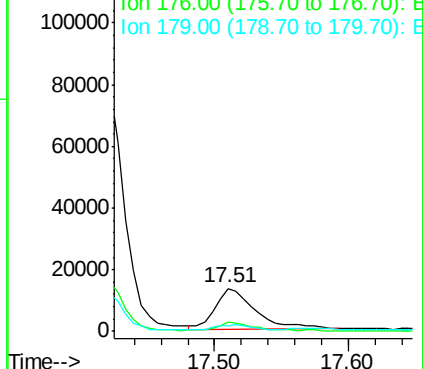
#71
 Anthracene
 Concen: 3.00 ng
 RT: 17.51 min Scan# 2497
 Delta R.T. -0.01 min
 Lab File: BG022498.D
 Acq: 22 Jun 2016 14:09

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion:178 Resp: 27567
 Ion Ratio Lower Upper
 178 100
 176 21.2 15.0 22.4
 179 13.5 12.2 18.4

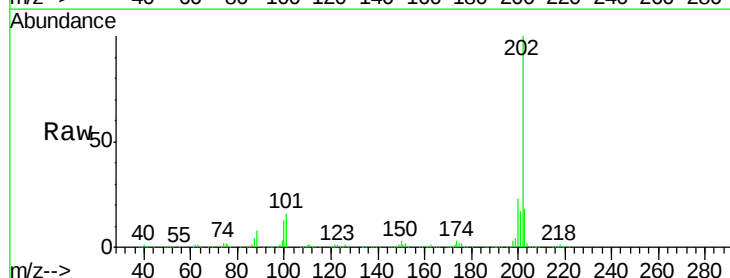


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

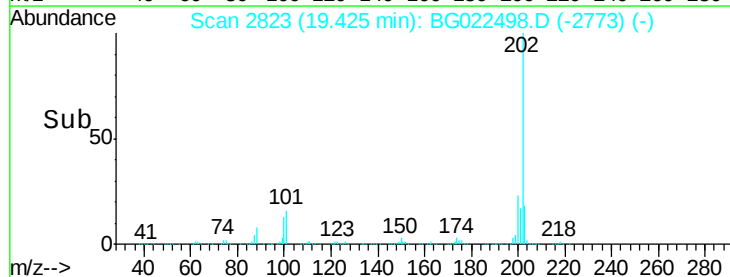
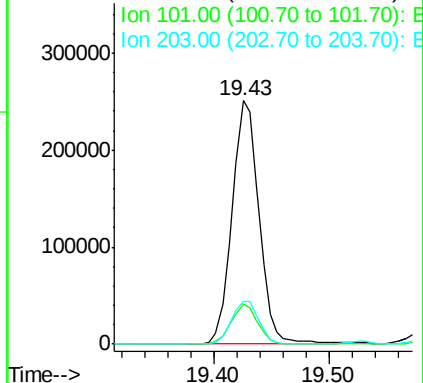


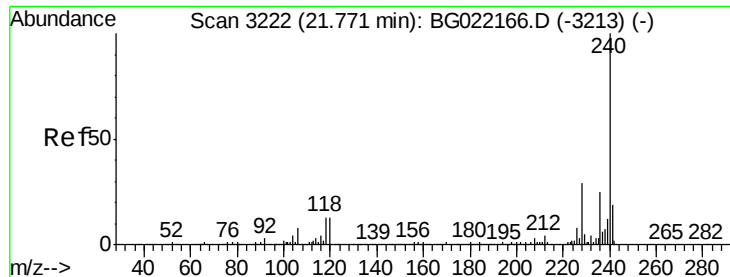
#74
 Fluoranthene
 Concen: 37.98 ng
 RT: 19.43 min Scan# 2823
 Delta R.T. -0.01 min
 Lab File: BG022498.D
 Acq: 22 Jun 2016 14:09

Tgt Ion:202 Resp: 404366
 Ion Ratio Lower Upper
 202 100
 101 16.3 0.0 31.0
 203 17.7 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: 21.63 min Scan# 3199

Delta R.T. -0.01 min

Lab File: BG022498.D

Acq: 22 Jun 2016 14:09

Instrument :

BNA_G

ClientSampleId :

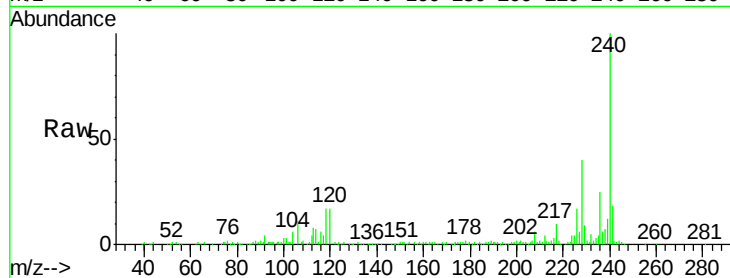
Tot Ion:240 Resp: 144775

Ion Ratio Lower Upper

240 100

120 16.6 8.4 12.6#

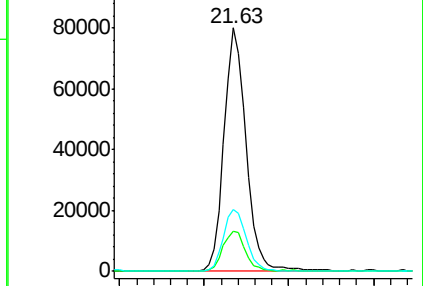
236 25.3 19.6 29.4



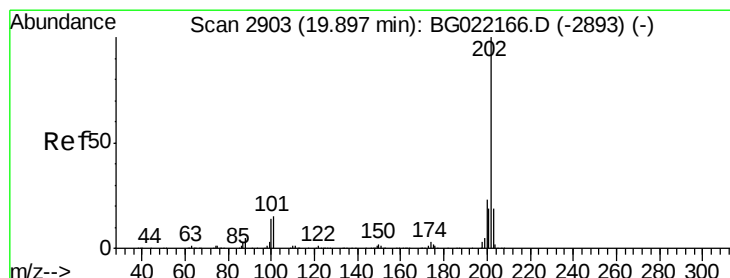
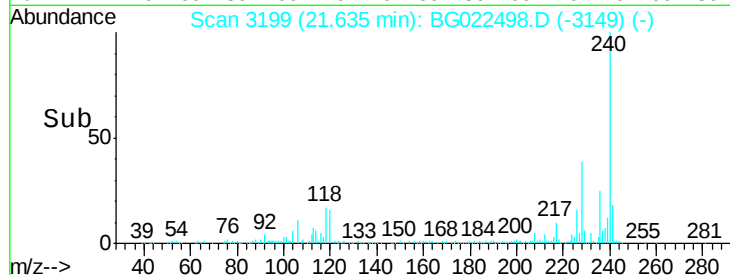
Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



Time--> 21.50 21.60 21.70 21.80



#77

Pyrene

Concen: 38.46 ng

RT: 19.79 min Scan# 2885

Delta R.T. -0.00 min

Lab File: BG022498.D

Acq: 22 Jun 2016 14:09

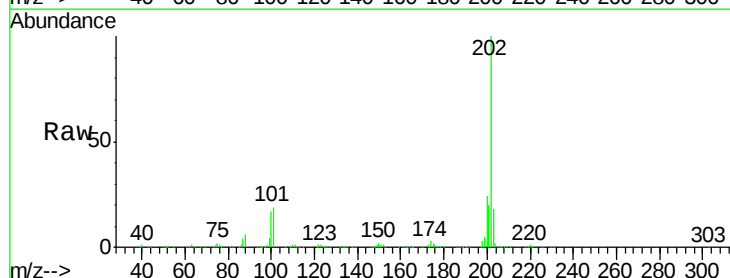
Tgt Ion:202 Resp: 346127

Ion Ratio Lower Upper

202 100

200 24.3 18.2 27.2

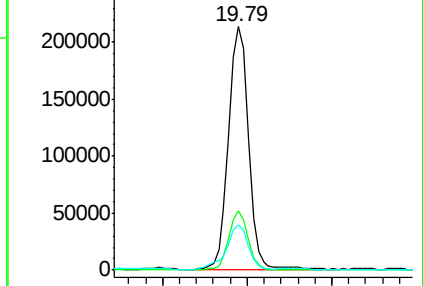
203 18.4 15.0 22.4



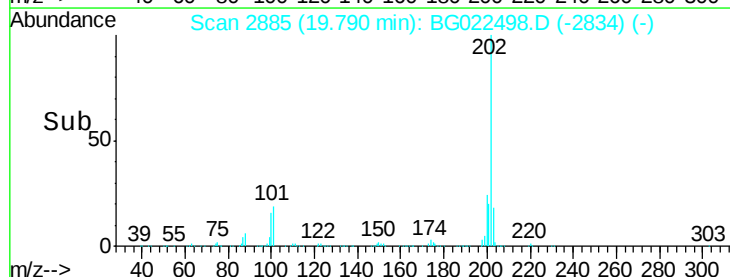
Abundance Ion 202.00 (201.70 to 202.70): E

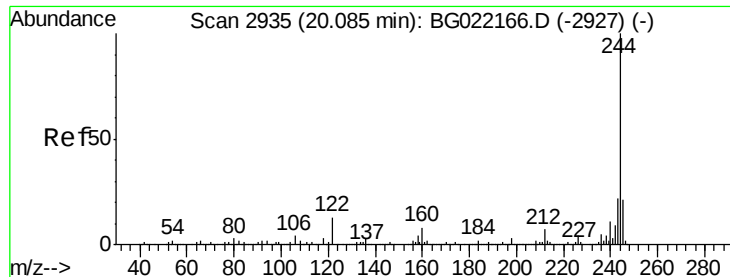
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



Time--> 19.70 19.80 19.90





#78

Terphenyl-d14

Concen: 16.69 ng

RT: 19.98 min Scan# 2917

Delta R.T. -0.00 min

Lab File: BG022498.D

Acq: 22 Jun 2016 14:09

Instrument :

BNA_G

ClientSampleId :

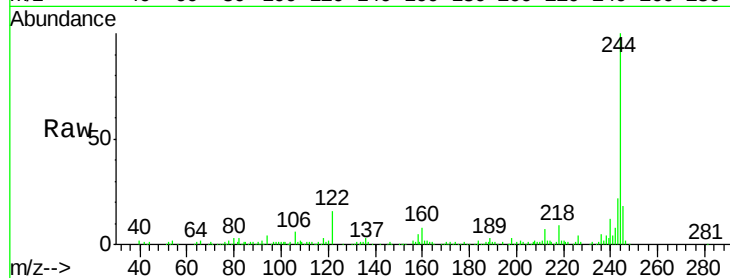
Tot Ion:244 Resp: 101780

Ion Ratio Lower Upper

244 100

212 6.8 6.5 9.7

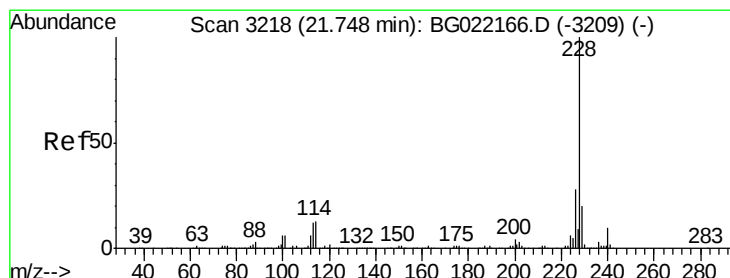
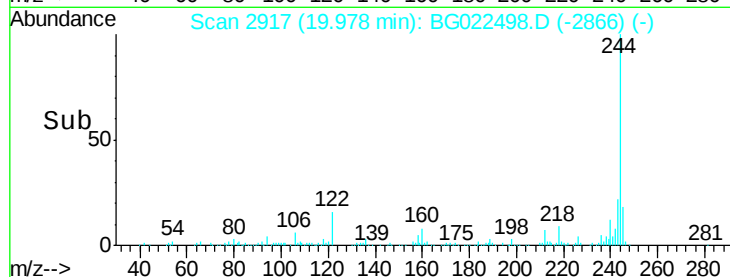
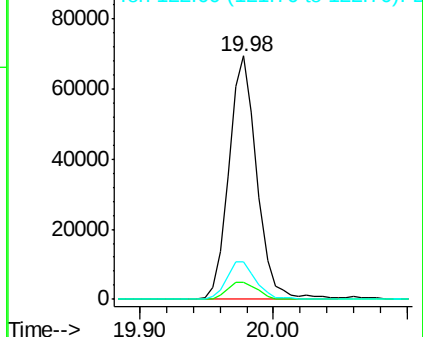
122 15.7 8.6 12.8#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 21.05 ng

RT: 21.62 min Scan# 3196

Delta R.T. -0.00 min

Lab File: BG022498.D

Acq: 22 Jun 2016 14:09

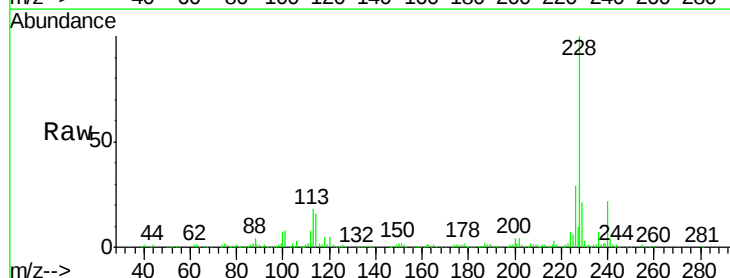
Tgt Ion:228 Resp: 170853

Ion Ratio Lower Upper

228 100

226 29.2 22.6 34.0

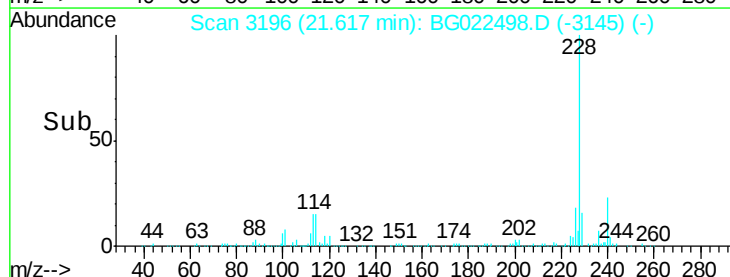
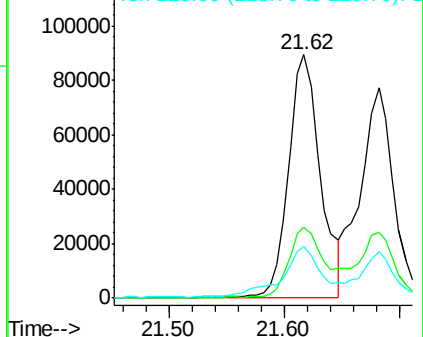
229 21.4 16.1 24.1

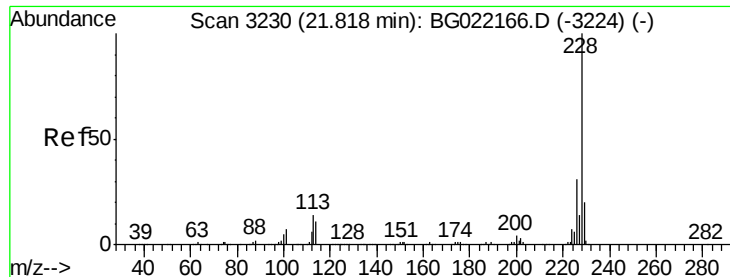


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 19.60 ng

RT: 21.68 min Scan# 3207

Delta R.T. -0.01 min

Lab File: BG022498.D

Acq: 22 Jun 2016 14:09

Instrument :

BNA_G

ClientSampled :

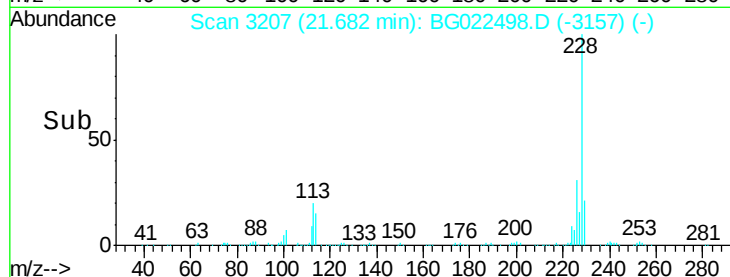
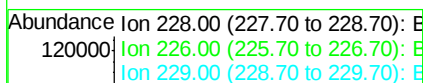
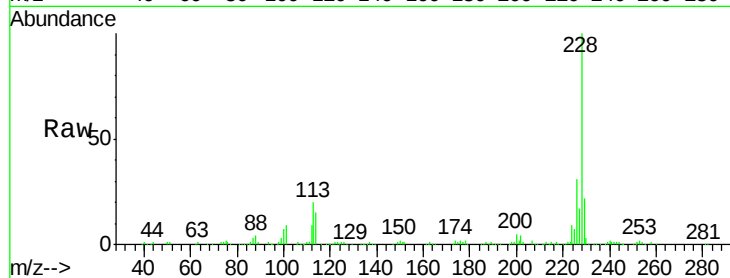
Tot Ion:228 Resp: 154820

Ion Ratio Lower Upper

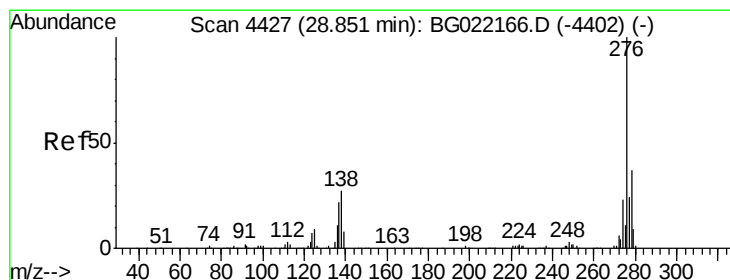
228 100

226 31.0 25.4 38.0

229 22.3 15.9 23.9



Time-->



#85

Indeno(1,2,3-cd)pyrene

Concen: 9.84 ng

RT: 28.50 min Scan# 4367

Delta R.T. -0.01 min

Lab File: BG022498.D

Acq: 22 Jun 2016 14:09

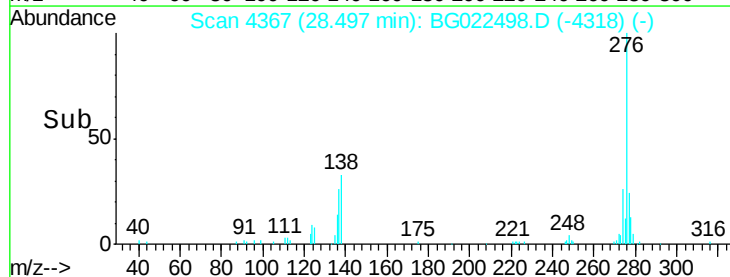
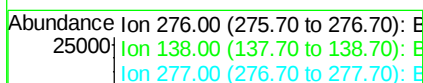
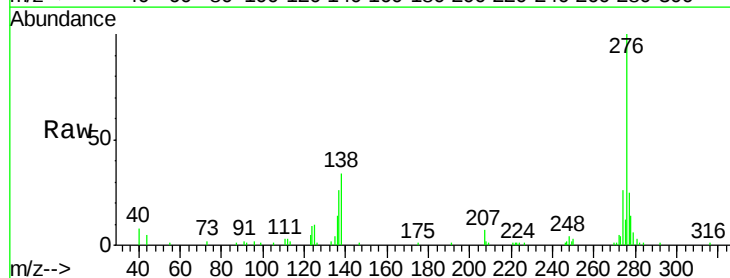
Tgt Ion:276 Resp: 87178

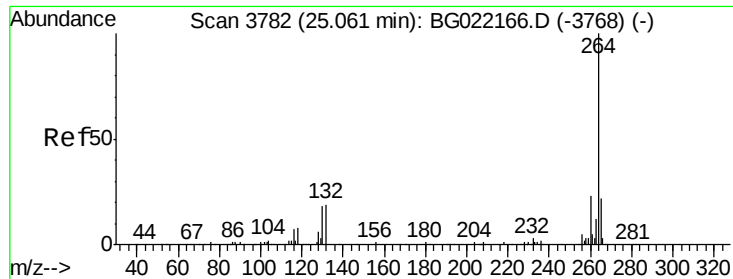
Ion Ratio Lower Upper

276 100

138 36.1 14.0 21.0#

277 24.6 20.6 30.8

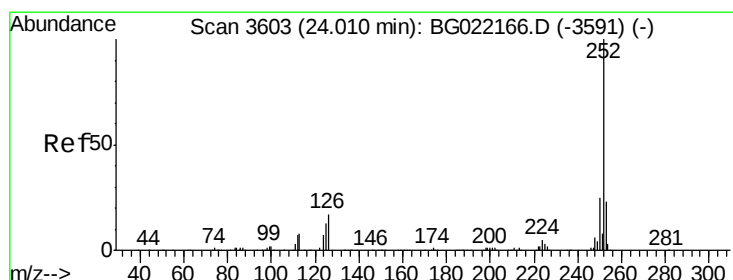
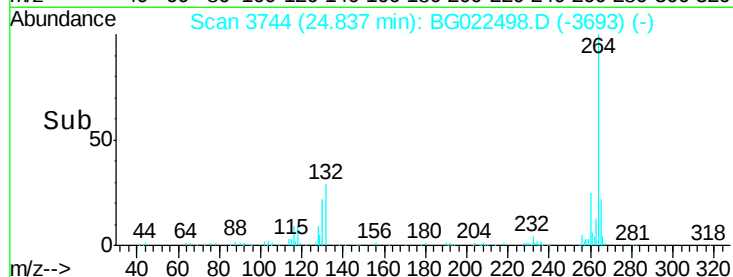
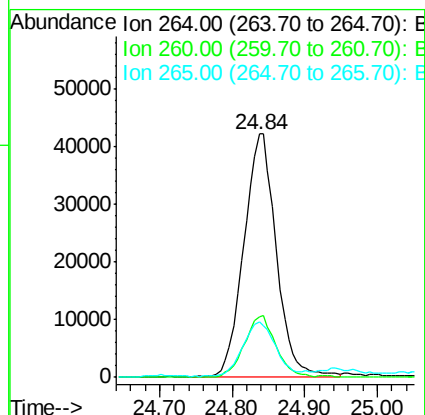
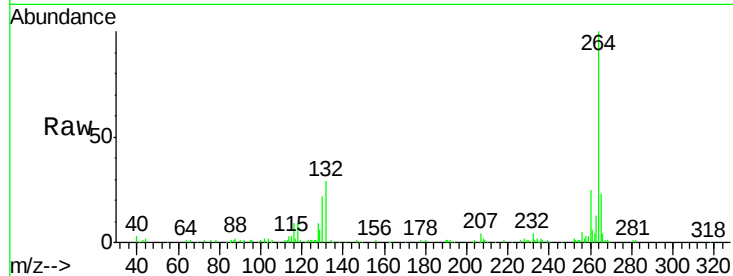




#86
Pervlene-d12
Concen: 20.00 ng
RT: 24.84 min Scan# 3744
Delta R.T. -0.00 min
Lab File: BG022498.D
Acq: 22 Jun 2016 14:09

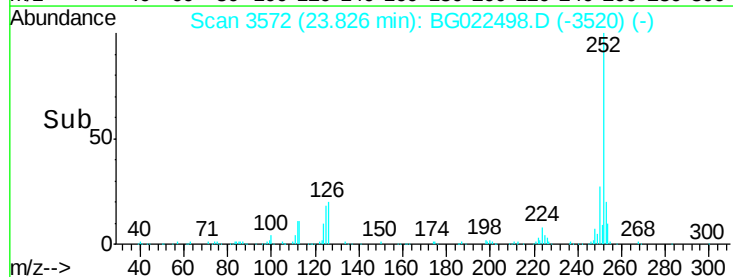
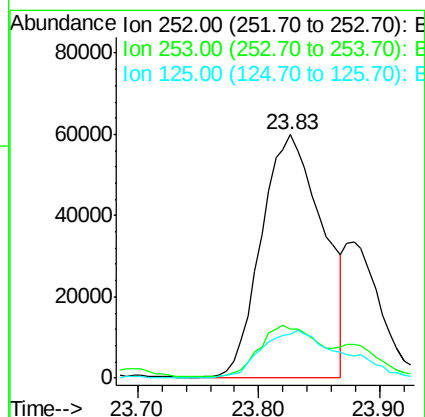
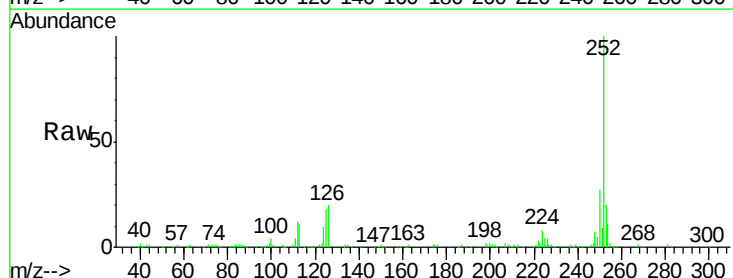
Instrument :
BNA_G
ClientSampleId :

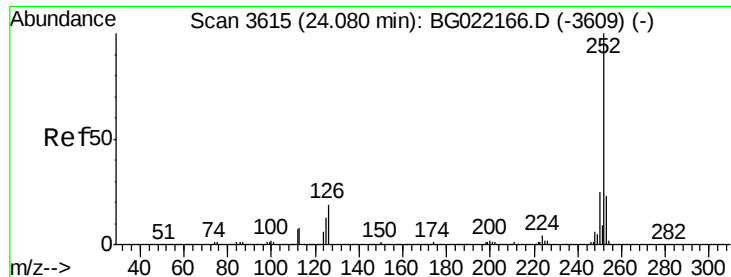
Tot Ion:264 Resp: 131529
Ion Ratio Lower Upper
264 100
260 25.1 20.2 30.4
265 22.8 17.8 26.8



#87
Benzo(b)fluoranthene
Concen: 27.44 ng
RT: 23.83 min Scan# 3572
Delta R.T. 0.01 min
Lab File: BG022498.D
Acq: 22 Jun 2016 14:09

Tgt Ion:252 Resp: 210508
Ion Ratio Lower Upper
252 100
253 20.2 17.5 26.3
125 17.9 8.6 13.0#

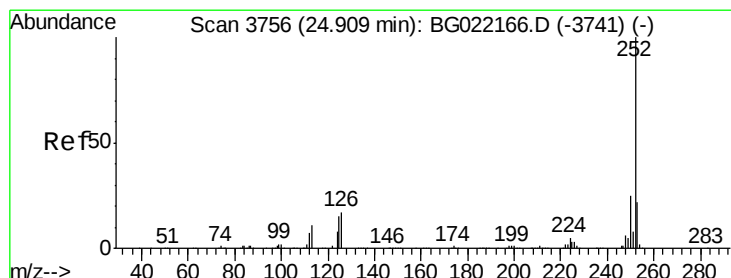
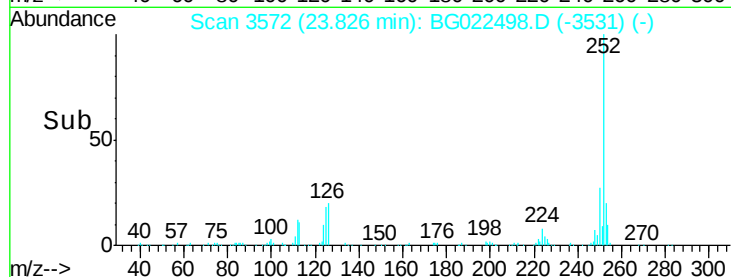
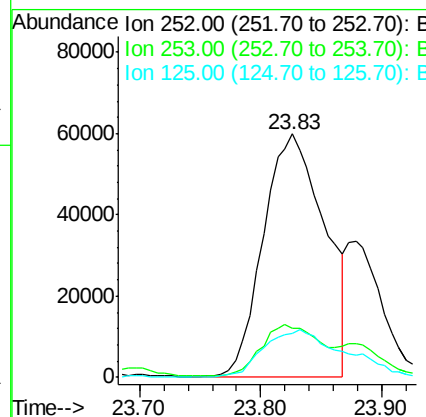
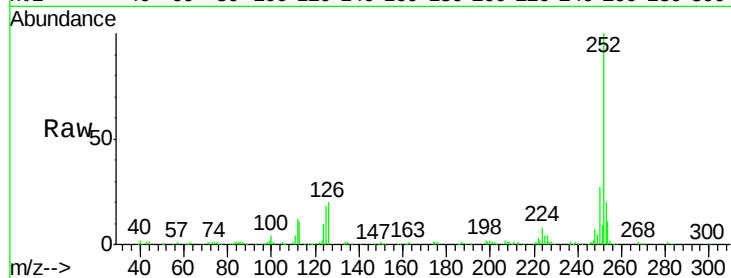




#88
Benzo(k)fluoranthene
Concen: 27.88 ng
RT: 23.83 min Scan# 3572
Delta R.T. -0.06 min
Lab File: BG022498.D
Acq: 22 Jun 2016 14:09

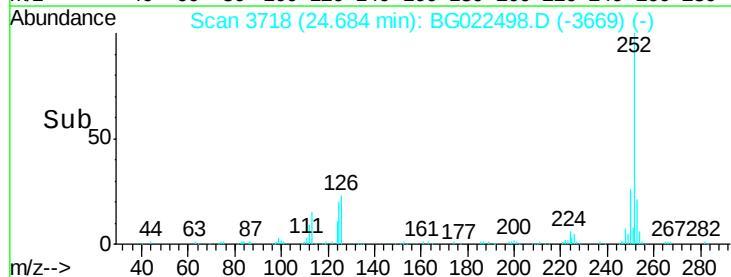
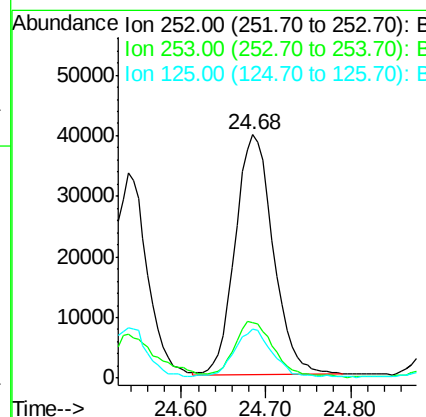
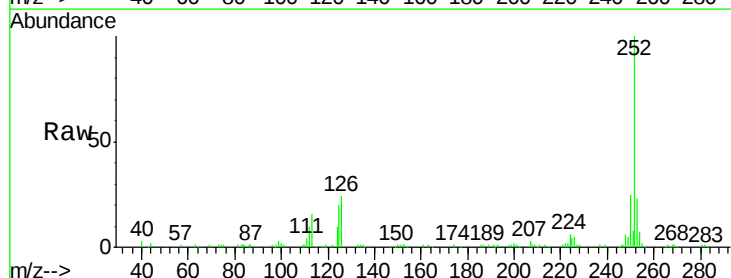
Instrument :
BNA_G
ClientSampleId :

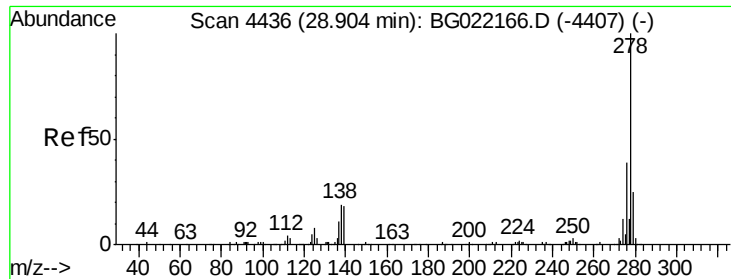
Tot Ion	Ratio	Lower	Upper
252	100		
253	20.2	17.8	26.8
125	17.9	8.3	12.5



#89
Benzo(a)pyrene
Concen: 16.82 ng
RT: 24.68 min Scan# 3718
Delta R.T. -0.01 min
Lab File: BG022498.D
Acq: 22 Jun 2016 14:09

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.1	25.7
125	20.3	9.6	14.4





#90

Dibenzo(a,h)anthracene

Concen: 2.77 ng

RT: 28.53 min Scan# 4373

Delta R.T. -0.03 min

Lab File: BG022498.D

Acq: 22 Jun 2016 14:09

Instrument :

BNA_G

ClientSampleId :

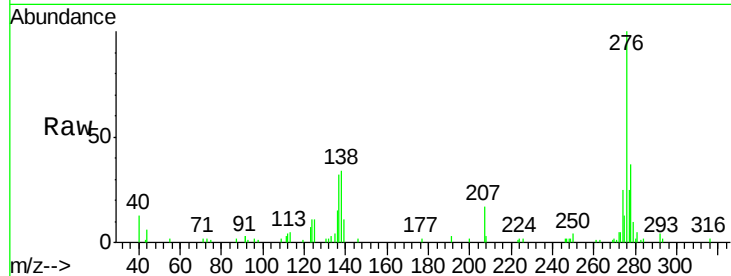
Tot Ion:278 Resp: 19153

Ion Ratio Lower Upper

278 100

139 29.2 11.9 17.9#

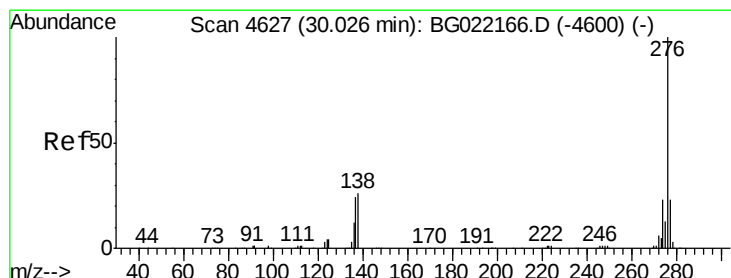
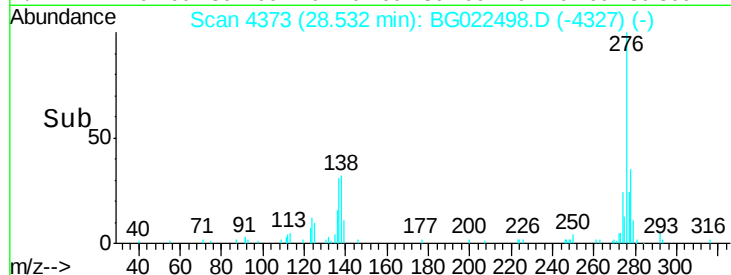
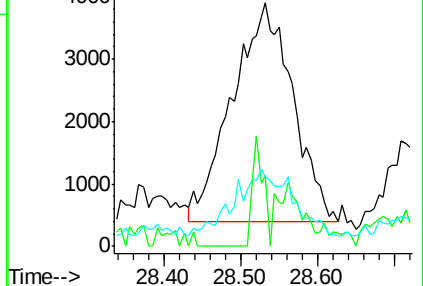
279 28.3 18.2 27.2#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 11.48 ng

RT: 29.64 min Scan# 4562

Delta R.T. -0.02 min

Lab File: BG022498.D

Acq: 22 Jun 2016 14:09

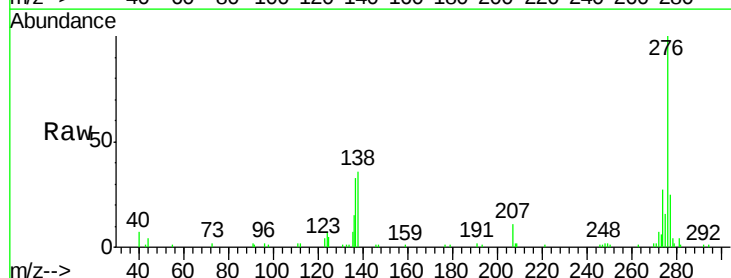
Tgt Ion:276 Resp: 82511

Ion Ratio Lower Upper

276 100

277 24.7 19.4 29.2

138 35.9 17.4 26.0#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

