

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061716\
 Data File : BG022435.D
 Acq On : 18 Jun 2016 22:38
 Operator : UM/SJ
 Sample : H3471-19
 Misc :
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 STA-1120-(0-4)

Quant Time: Jun 20 01:26:19 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 13 17:40:23 2016
 Response via : Initial Calibration

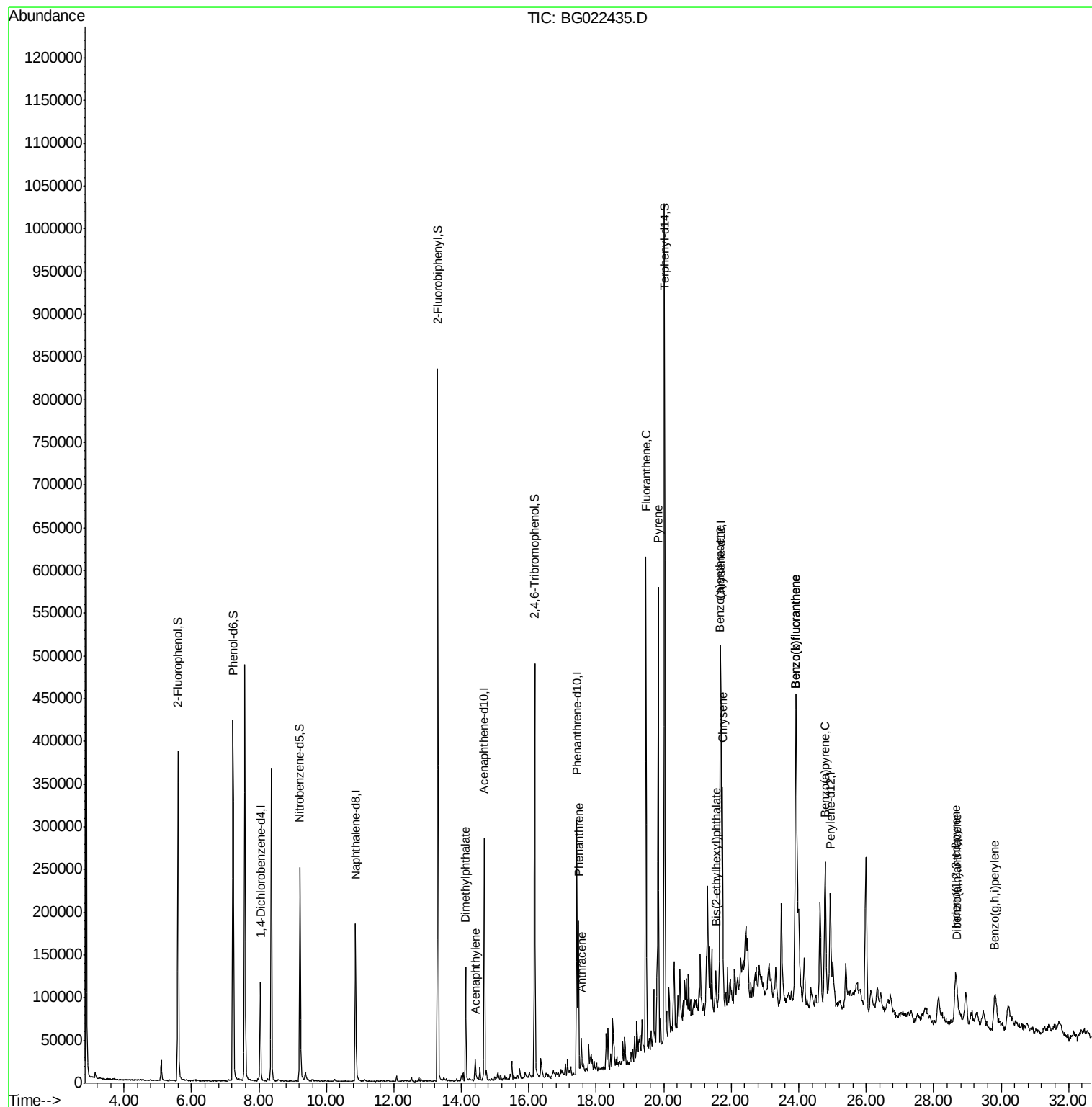
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.04	152	39612	20.00	ng	-0.05
21) Naphthalene-d8	10.86	136	195587	20.00	ng	-0.04
38) Acenaphthene-d10	14.68	164	105397	20.00	ng	-0.04
63) Phenanthrene-d10	17.42	188	189571	20.00	ng	-0.04
75) Chrysene-d12	21.69	240	160744	20.00	ng	-0.05
86) Perylene-d12	24.93	264	143144	20.00	ng	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	5.60	112	258352	126.10	ng	-0.03
7) Phenol-d6	7.24	99	380855	118.23	ng	-0.02
23) Nitrobenzene-d5	9.22	82	206733	73.69	ng	-0.04
41) 2,4,6-Tribromophenol	16.17	330	97188	81.61	ng	-0.04
44) 2-Fluorobiphenyl	13.30	172	505451	73.08	ng	-0.04
78) Terphenyl-d14	20.02	244	434793	64.22	ng	-0.04
Target Compounds						Qvalue
48) Acenaphthylene	14.41	152	31239	2.93	ng	95
49) Dimethylphthalate	14.13	163	108256	12.39	ng	100
70) Phenanthrene	17.47	178	117725	11.43	ng	98
71) Anthracene	17.56	178	28667	2.81	ng	98
74) Fluoranthene	19.47	202	366625	30.97	ng	96
77) Pyrene	19.84	202	345956	34.62	ng	99
80) Benzo(a)anthracene	21.67	228	191494	21.24	ng	98
82) Chrysene	21.74	228	179797	20.50	ng	98
83) Bis(2-ethylhexyl)phthalate	21.55	149	15801	2.32	ng	96
85) Indeno(1,2,3-cd)pyrene	28.66	276	106776	10.85	ng	# 87
87) Benzo(b)fluoranthene	23.90	252	368197	44.10	ng	# 92
88) Benzo(k)fluoranthene	23.90	252	368197	44.80	ng	# 93
89) Benzo(a)pyrene	24.78	252	170881	21.41	ng	# 94
90) Dibenzo(a,h)anthracene	28.69	278	23545	3.13	ng	# 77
91) Benzo(g,h,i)perylene	29.81	276	87530	11.19	ng	# 93

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.04 min Scan# 885

Delta R.T. -0.05 min

Lab File: BG022435.D

Acq: 18 Jun 2016 22:38

Instrument :

BNA_G

ClientSampleId :

STA-1120-(0-4)

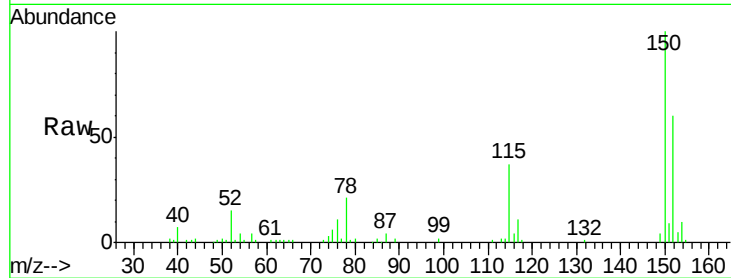
Tgt Ion:152 Resp: 39612

Ion Ratio Lower Upper

152 100

150 167.4 130.1 195.1

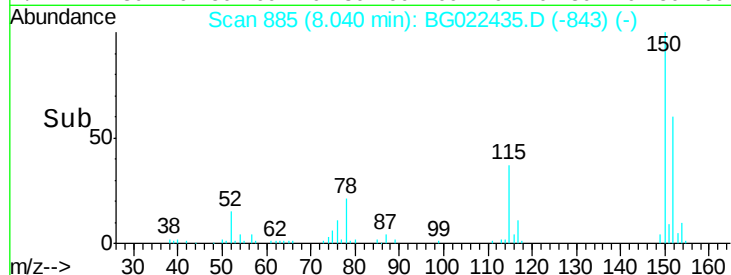
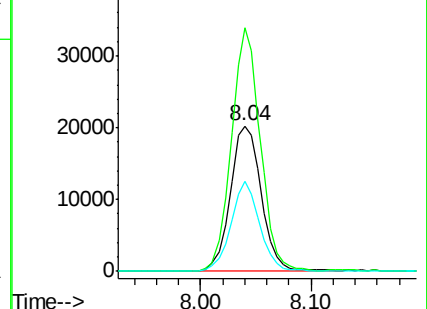
115 62.0 62.2 93.2#



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: 126.10 ng

RT: 5.60 min Scan# 470

Delta R.T. -0.03 min

Lab File: BG022435.D

Acq: 18 Jun 2016 22:38

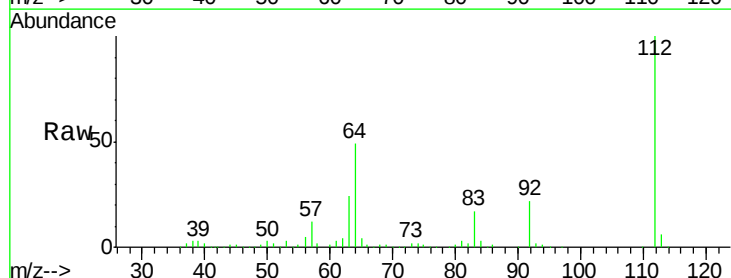
Tgt Ion:112 Resp: 258352

Ion Ratio Lower Upper

112 100

64 49.1 51.1 76.7#

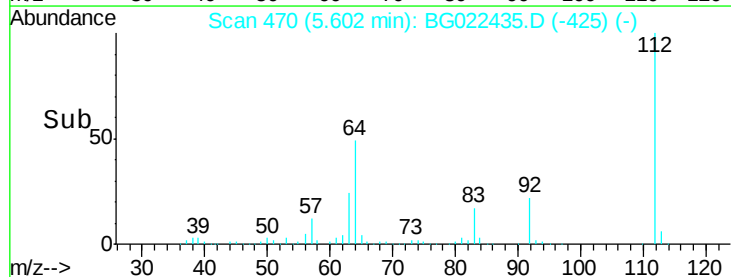
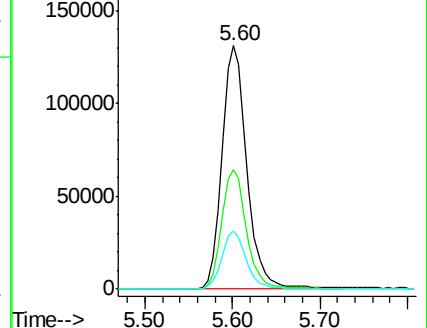
63 24.0 24.6 37.0#



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: 118.23 ng

RT: 7.24 min Scan# 748

Delta R.T. -0.02 min

Lab File: BG022435.D

Acq: 18 Jun 2016 22:38

Instrument :

BNA_G

ClientSampleId :

STA-1120-(0-4)

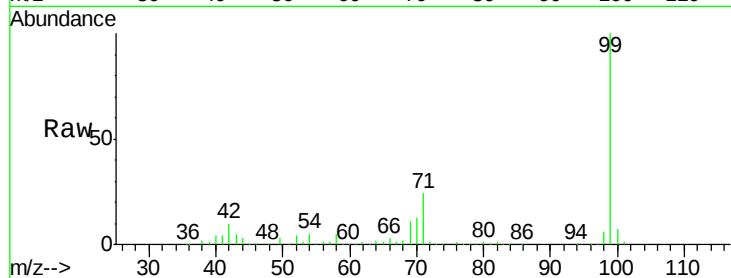
Tgt Ion: 99 Resp: 380855

Ion Ratio Lower Upper

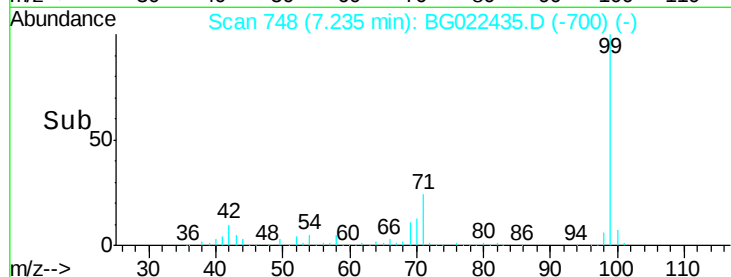
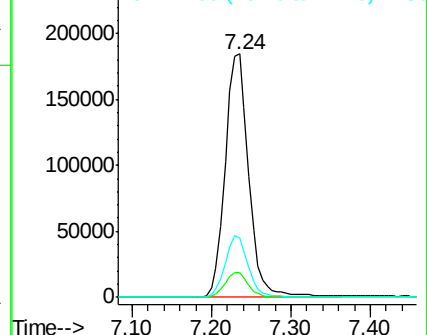
99 100

42 10.1 16.4 24.6#

71 24.3 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: 10.86 min Scan# 1365

Delta R.T. -0.04 min

Lab File: BG022435.D

Acq: 18 Jun 2016 22:38

Tgt Ion: 136 Resp: 195587

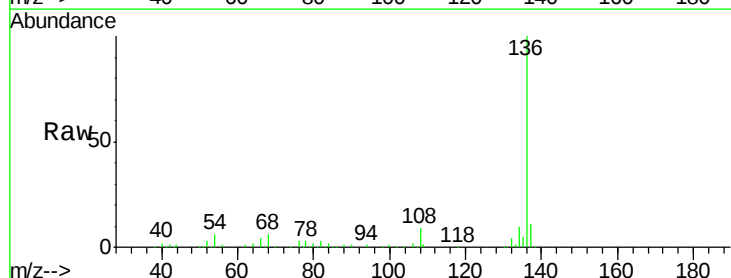
Ion Ratio Lower Upper

136 100

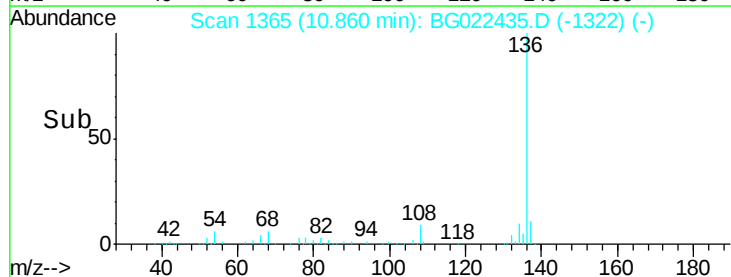
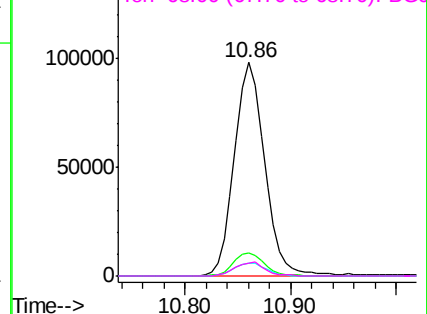
137 11.1 9.0 13.4

54 5.9 9.6 14.4#

68 5.9 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

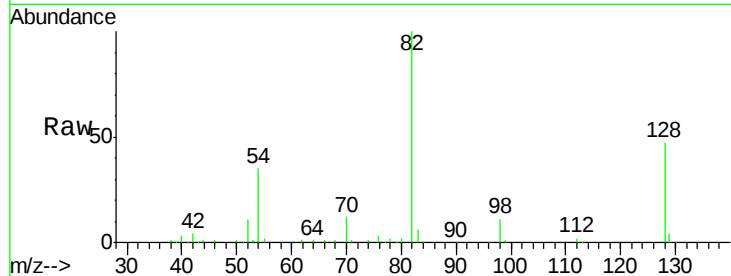




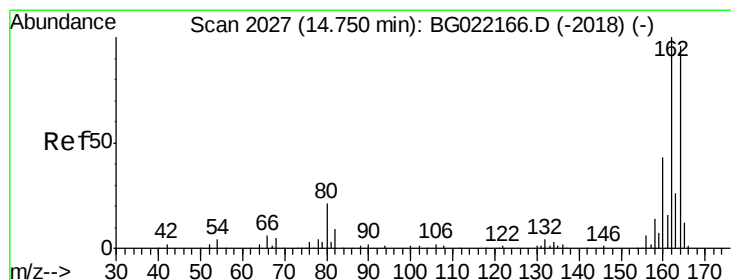
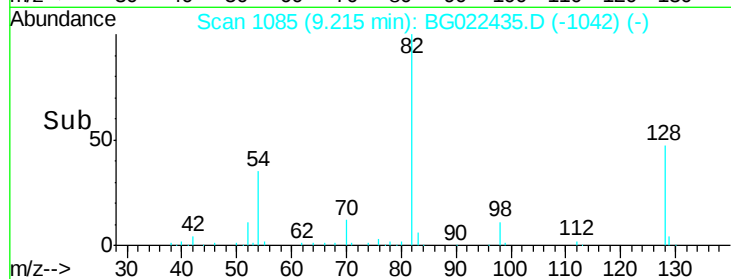
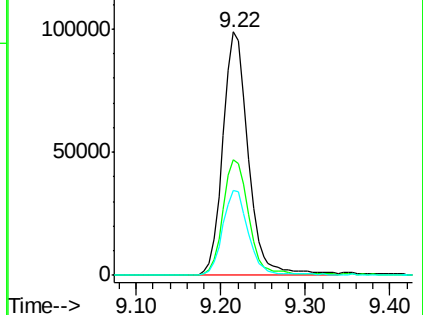
#23
 Nitrobenzene-d5
 Concen: 73.69 ng
 RT: 9.22 min Scan# 1085
 Delta R.T. -0.04 min
 Lab File: BG022435.D
 Acq: 18 Jun 2016 22:38

Instrument :
 BNA_G
 ClientSampleId :
 STA-1120-(0-4)

Tgt Ion	Ratio	Lower	Upper
82	100		
128	47.3	33.4	50.0
54	34.9	46.1	69.1#

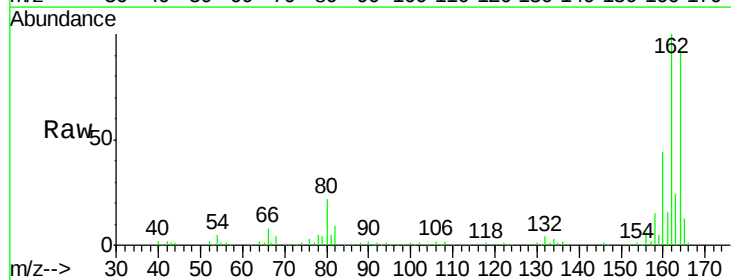


Abundance Ion 82.00 (81.70 to 82.70): BGC
 Ion 128.00 (127.70 to 128.70): BGC
 Ion 54.00 (53.70 to 54.70): BGC

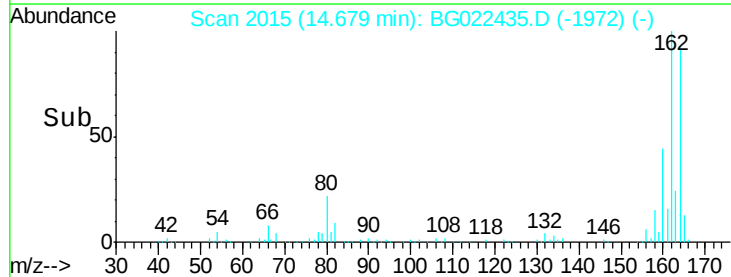
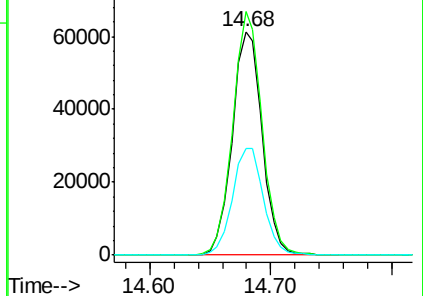


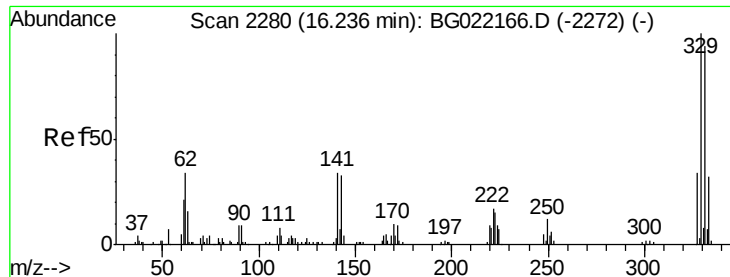
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 14.68 min Scan# 2015
 Delta R.T. -0.04 min
 Lab File: BG022435.D
 Acq: 18 Jun 2016 22:38

Tgt Ion	Ratio	Lower	Upper
164	100		
162	109.0	78.0	117.0
160	47.6	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: 81.61 ng

RT: 16.17 min Scan# 2269

Delta R.T. -0.04 min

Lab File: BG022435.D

Acq: 18 Jun 2016 22:38

Instrument :

BNA_G

ClientSampleId :

STA-1120-(0-4)

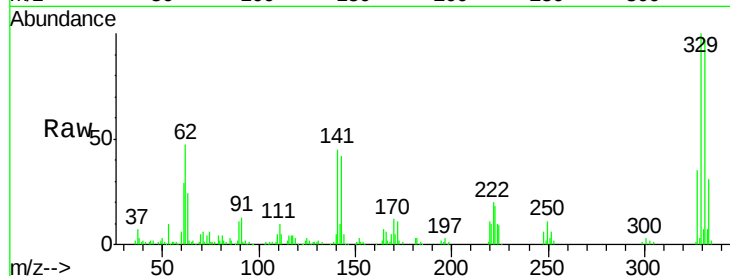
Tgt Ion:330 Resp: 97188

Ion Ratio Lower Upper

330 100

332 95.1 78.0 117.0

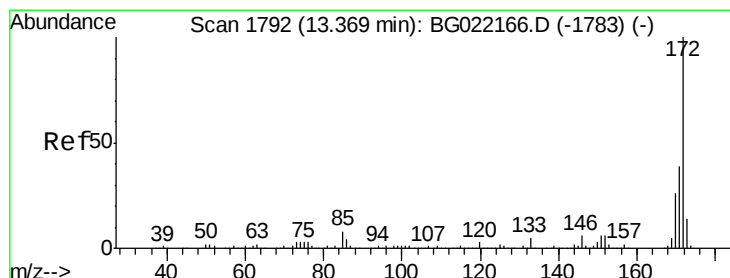
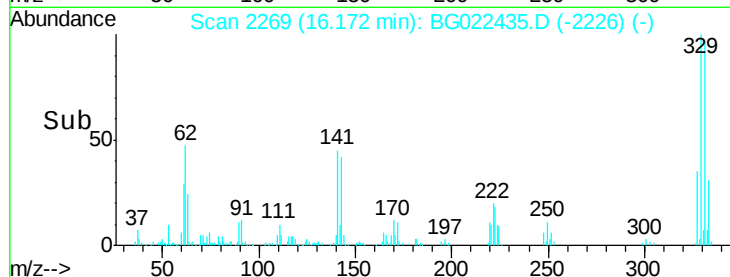
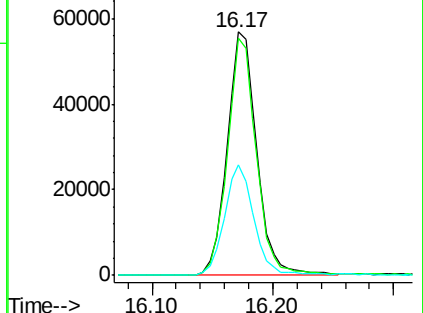
141 44.9 33.8 50.8



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: 73.08 ng

RT: 13.30 min Scan# 1781

Delta R.T. -0.04 min

Lab File: BG022435.D

Acq: 18 Jun 2016 22:38

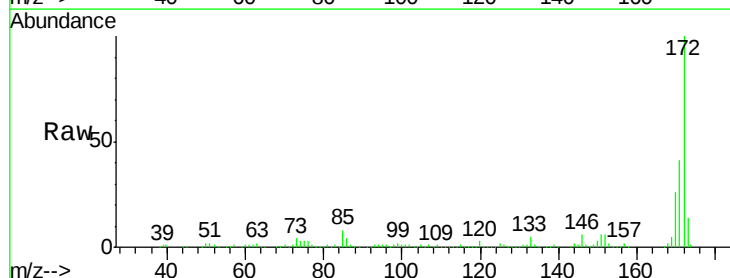
Tgt Ion:172 Resp: 505451

Ion Ratio Lower Upper

172 100

171 40.6 27.8 41.6

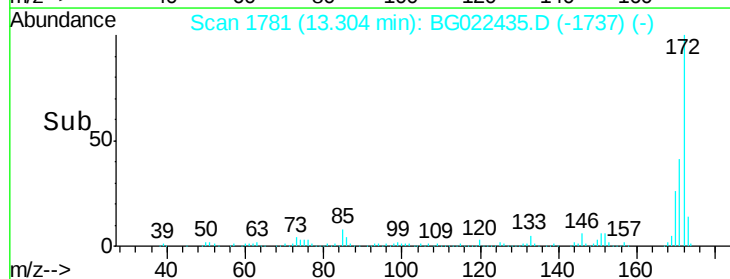
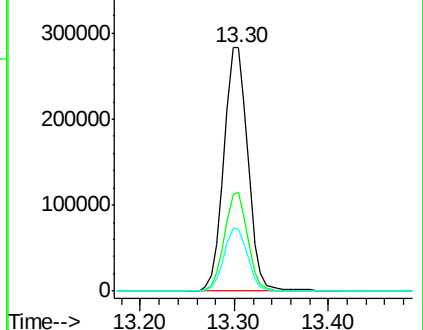
170 25.5 19.6 29.4

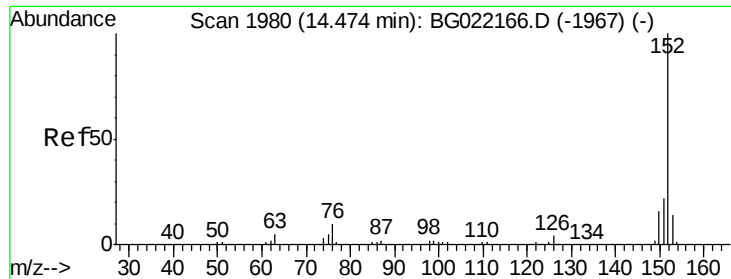


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#48

Acenaphthylene

Concen: 2.93 ng

RT: 14.41 min Scan# 1969

Delta R.T. -0.04 min

Lab File: BG022435.D

Acq: 18 Jun 2016 22:38

Instrument :

BNA_G

ClientSampleId :

STA-1120-(0-4)

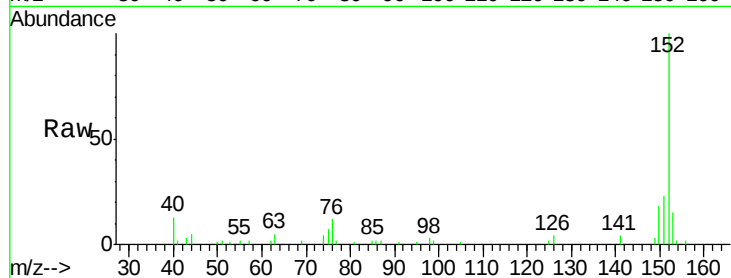
Tgt Ion:152 Resp: 31239

Ion Ratio Lower Upper

152 100

151 22.8 16.6 24.8

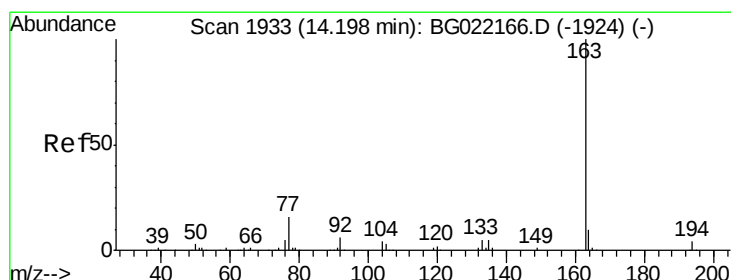
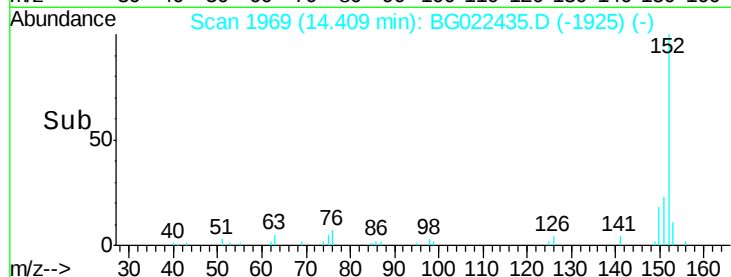
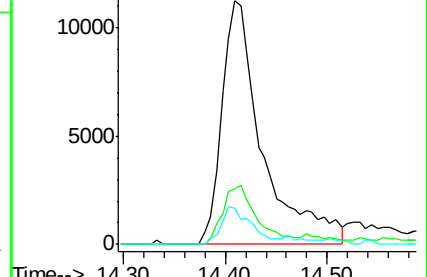
153 14.7 10.2 15.2



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: 12.39 ng

RT: 14.13 min Scan# 1921

Delta R.T. -0.04 min

Lab File: BG022435.D

Acq: 18 Jun 2016 22:38

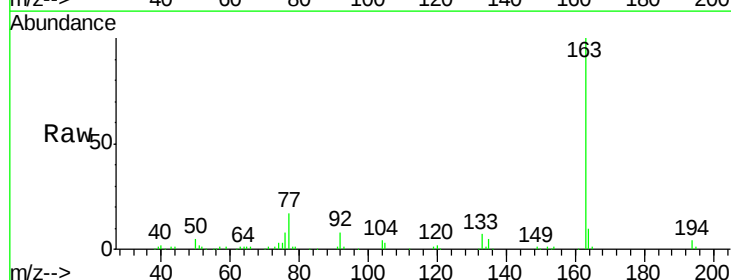
Tgt Ion:163 Resp: 108256

Ion Ratio Lower Upper

163 100

194 3.6 3.0 4.6

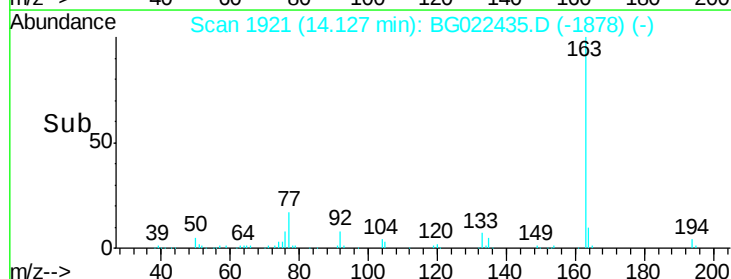
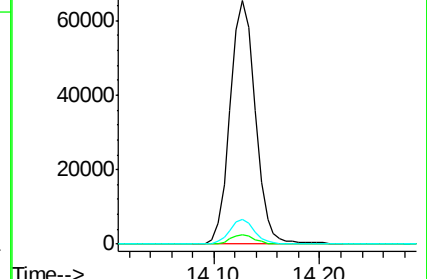
164 10.1 8.1 12.1

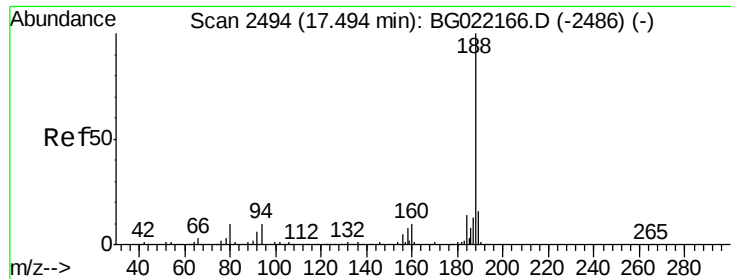


Abundance Ion 163.00 (162.70 to 163.70): E

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: 17.42 min Scan# 2482

Delta R.T. -0.04 min

Lab File: BG022435.D

Acq: 18 Jun 2016 22:38

Instrument :

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STA-1120-(0-4)

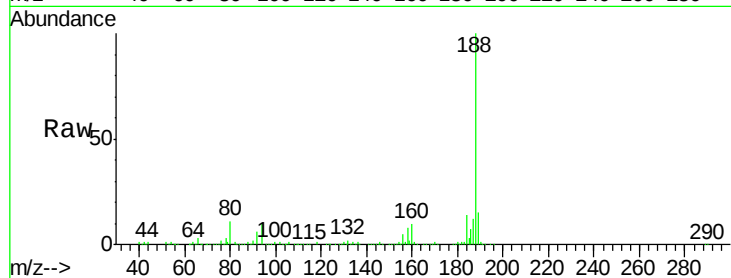
Tgt Ion:188 Resp: 189571

Ion Ratio Lower Upper

188 100

94 10.5 7.5 11.3

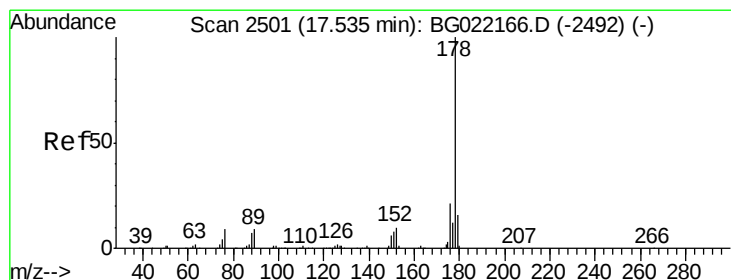
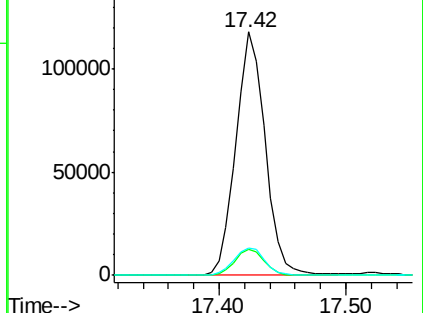
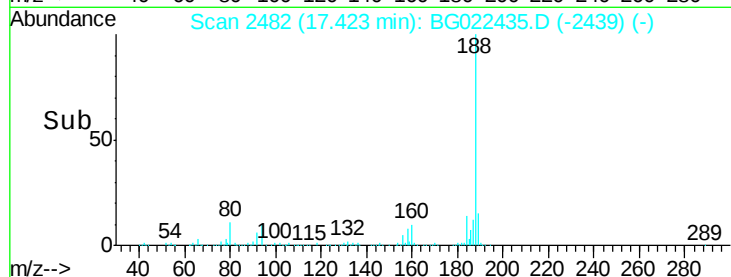
80 11.3 8.6 13.0



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC



#70

Phenanthrene

Concen: 11.43 ng

RT: 17.47 min Scan# 2490

Delta R.T. -0.04 min

Lab File: BG022435.D

Acq: 18 Jun 2016 22:38

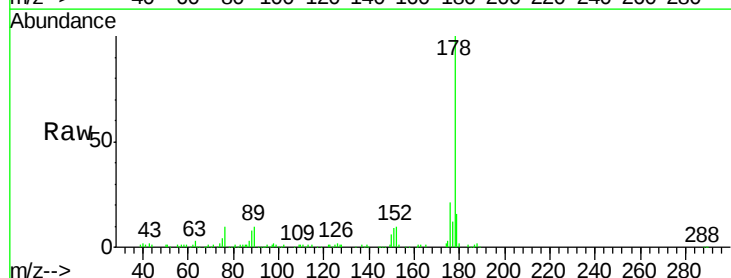
Tgt Ion:178 Resp: 117725

Ion Ratio Lower Upper

178 100

176 21.5 16.2 24.4

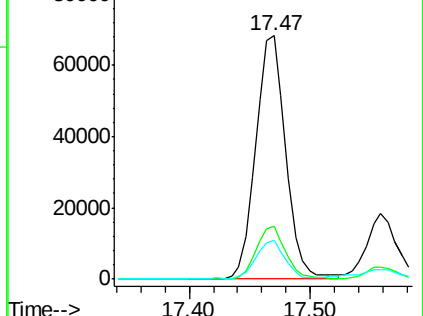
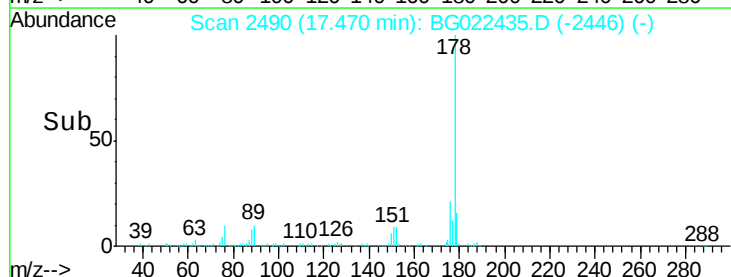
179 15.9 12.0 18.0

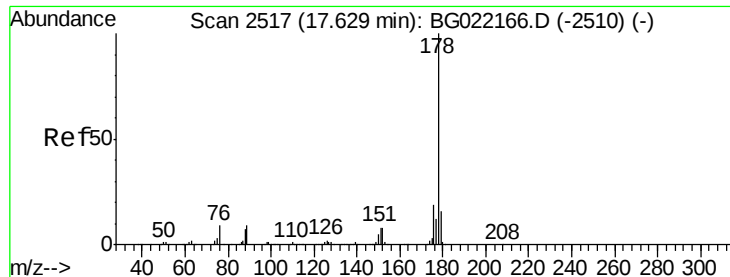


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

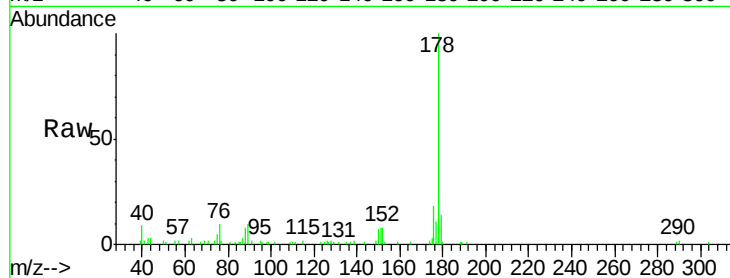




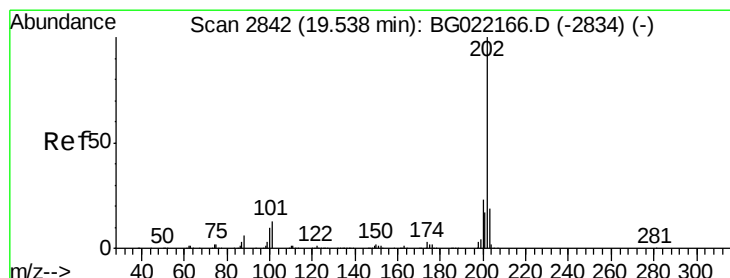
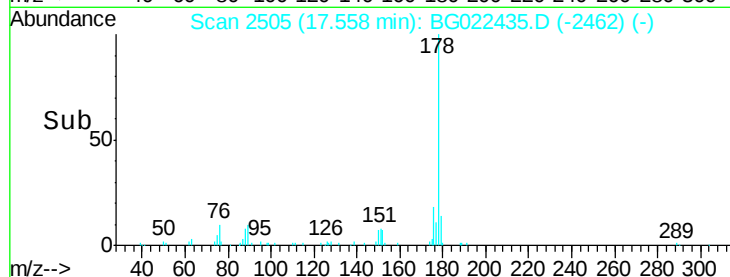
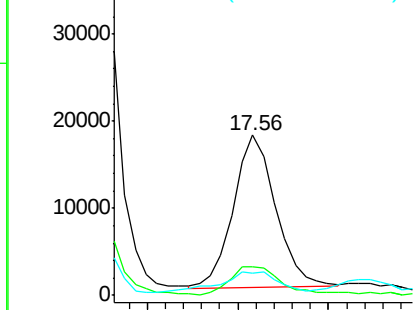
#71
 Anthracene
 Concen: 2.81 ng
 RT: 17.56 min Scan# 2505
 Delta R.T. -0.04 min
 Lab File: BG022435.D
 Acq: 18 Jun 2016 22:38

Instrument :
 BNA_G
 ClientSampleId :
 STA-1120-(0-4)

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.0	15.0	22.4
179	14.0	12.2	18.4

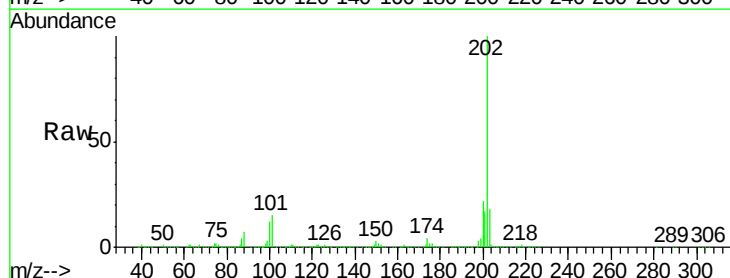


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

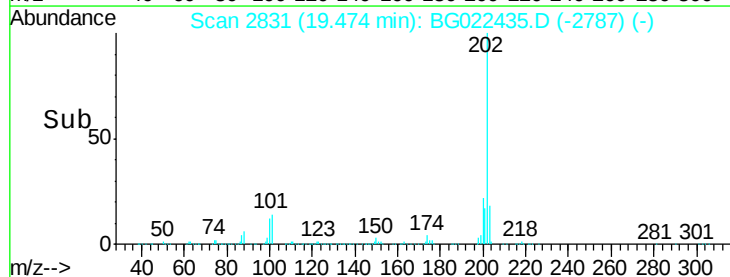
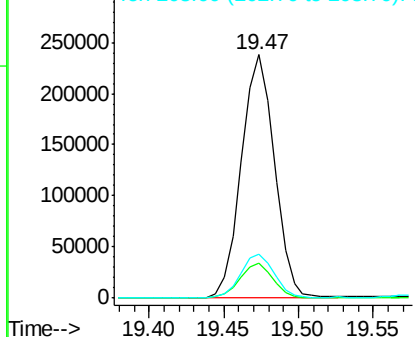


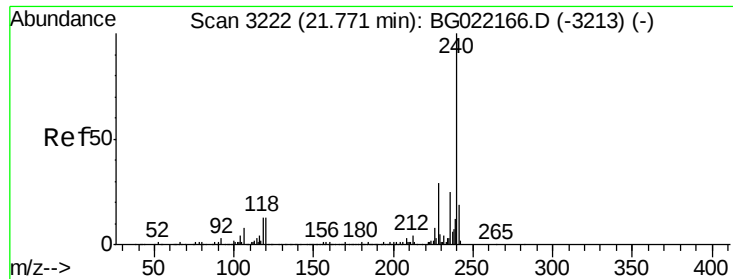
#74
 Fluoranthene
 Concen: 30.97 ng
 RT: 19.47 min Scan# 2831
 Delta R.T. -0.04 min
 Lab File: BG022435.D
 Acq: 18 Jun 2016 22:38

Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.6	0.0	31.0
203	17.9	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: 21.69 min Scan# 3208

Delta R.T. -0.05 min

Lab File: BG022435.D

Acq: 18 Jun 2016 22:38

Instrument :

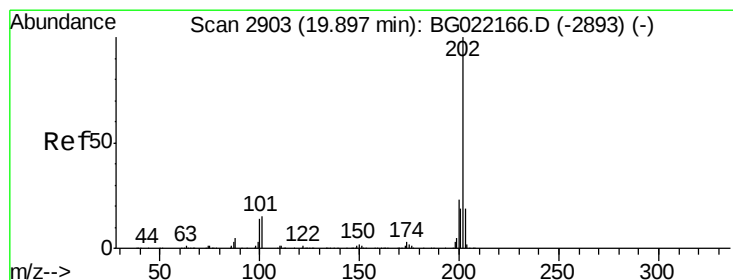
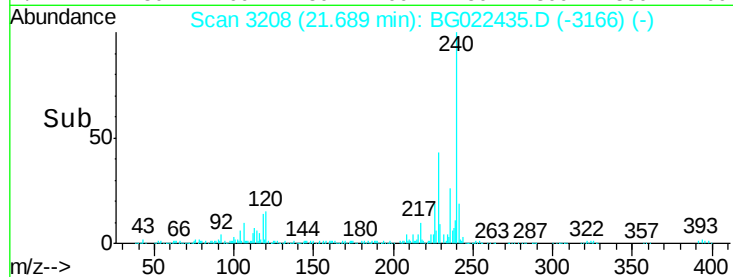
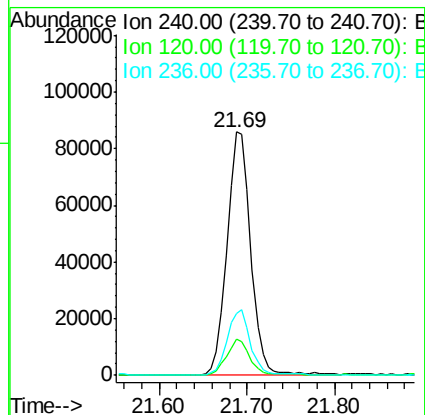
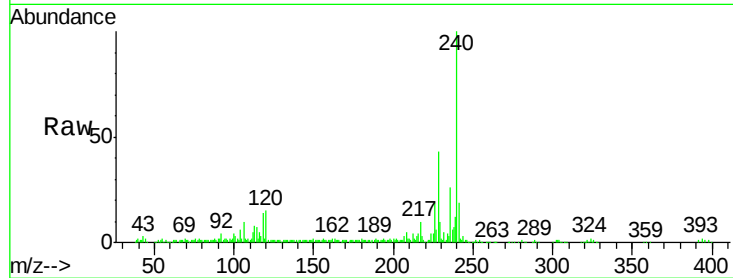
BNA_G

ClientSampleId :

STA-1120-(0-4)

Tgt Ion:240 Resp: 160744

Ion	Ratio	Lower	Upper
240	100		
120	15.0	8.4	12.6#
236	25.6	19.6	29.4



#77

Pyrene

Concen: 34.62 ng

RT: 19.84 min Scan# 2893

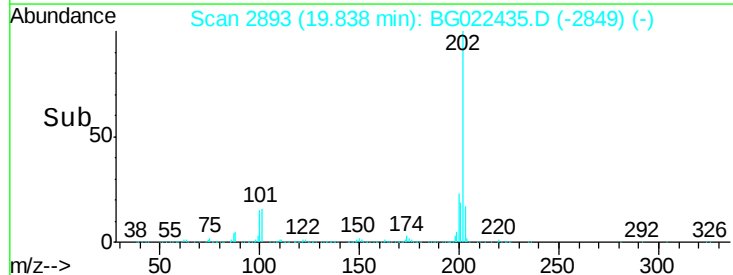
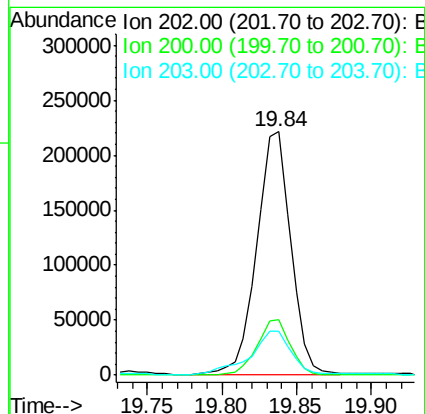
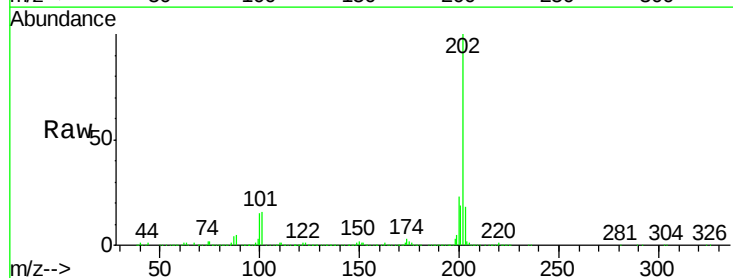
Delta R.T. -0.04 min

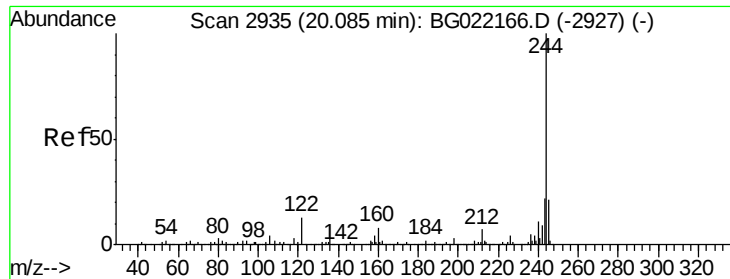
Lab File: BG022435.D

Acq: 18 Jun 2016 22:38

Tgt Ion:202 Resp: 345956

Ion	Ratio	Lower	Upper
202	100		
200	22.8	18.2	27.2
203	18.2	15.0	22.4

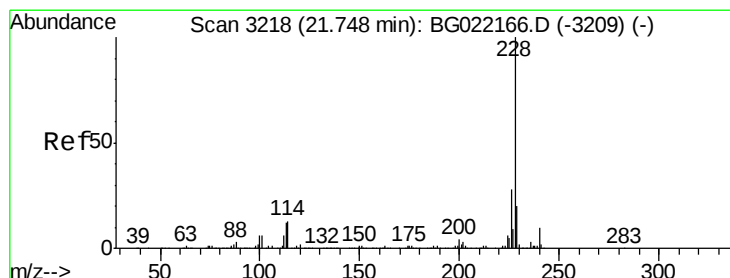
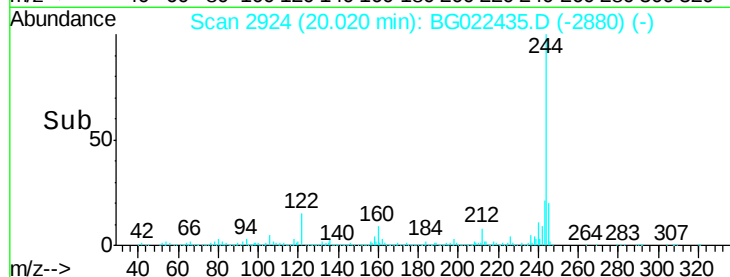
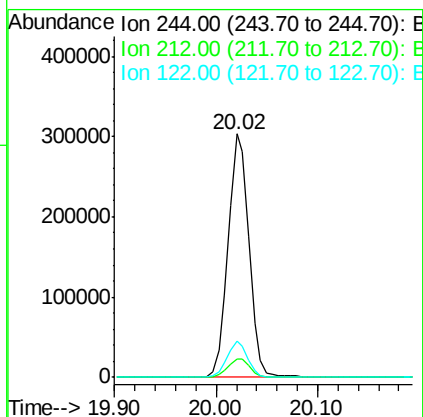
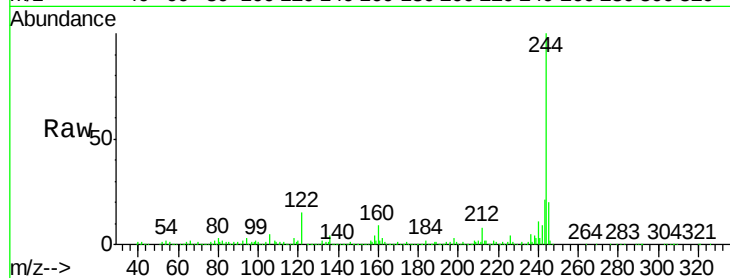




#78
 Terphenyl-d14
 Concen: 64.22 ng
 RT: 20.02 min Scan# 2924
 Delta R.T. -0.04 min
 Lab File: BG022435.D
 Acq: 18 Jun 2016 22:38

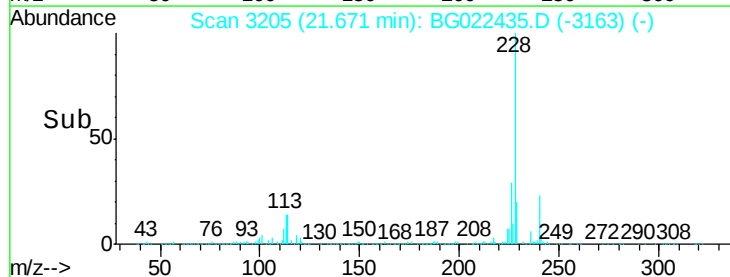
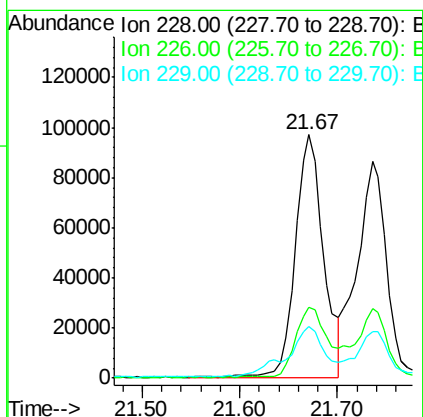
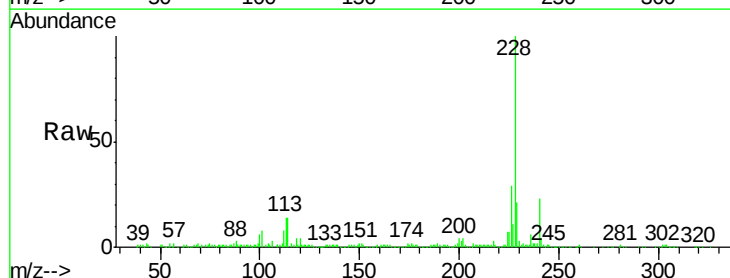
Instrument :
 BNA_G
 ClientSampleId :
 STA-1120-(0-4)

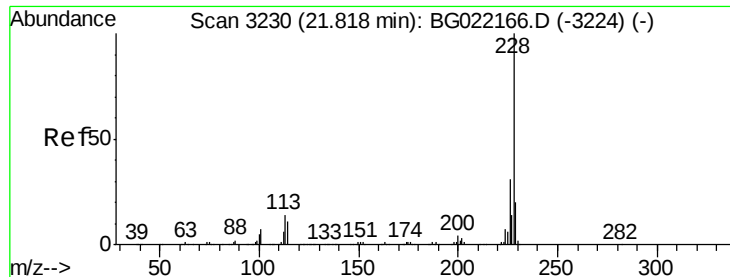
Tgt Ion:244 Resp: 434793
 Ion Ratio Lower Upper
 244 100
 212 7.8 6.5 9.7
 122 15.1 8.6 12.8#



#80
 Benzo(a)anthracene
 Concen: 21.24 ng
 RT: 21.67 min Scan# 3205
 Delta R.T. -0.05 min
 Lab File: BG022435.D
 Acq: 18 Jun 2016 22:38

Tgt Ion:228 Resp: 191494
 Ion Ratio Lower Upper
 228 100
 226 29.3 22.6 34.0
 229 20.9 16.1 24.1





#82

Chrysene

Concen: 20.50 ng

RT: 21.74 min Scan# 3216

Delta R.T. -0.05 min

Lab File: BG022435.D

Acq: 18 Jun 2016 22:38

Instrument :

BNA_G

ClientSampleId :

STA-1120-(0-4)

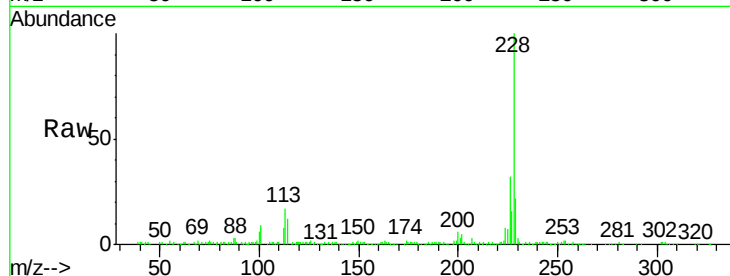
Tgt Ion:228 Resp: 179797

Ion Ratio Lower Upper

228 100

226 32.1 25.4 38.0

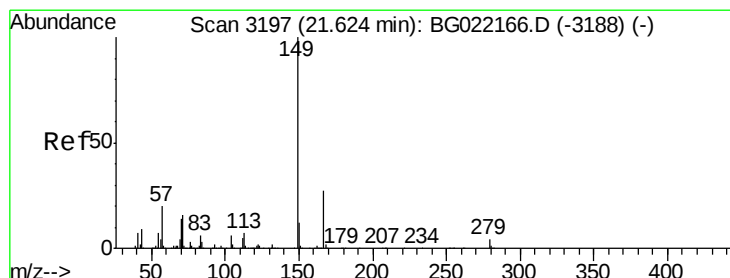
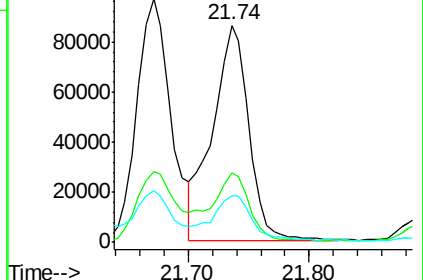
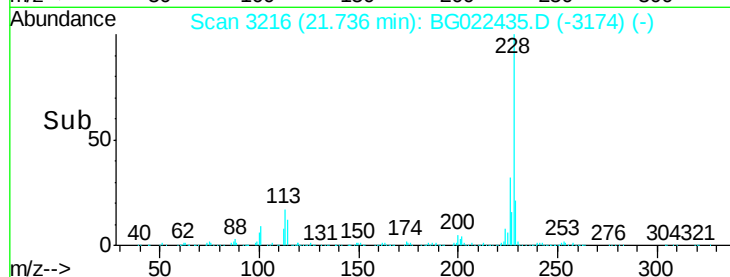
229 21.5 15.9 23.9



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 2.32 ng

RT: 21.55 min Scan# 3184

Delta R.T. -0.04 min

Lab File: BG022435.D

Acq: 18 Jun 2016 22:38

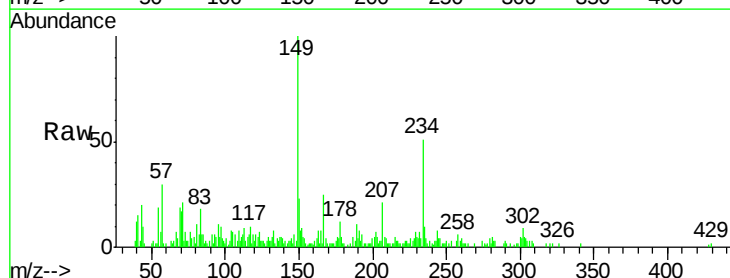
Tgt Ion:149 Resp: 15801

Ion Ratio Lower Upper

149 100

167 25.4 22.4 33.6

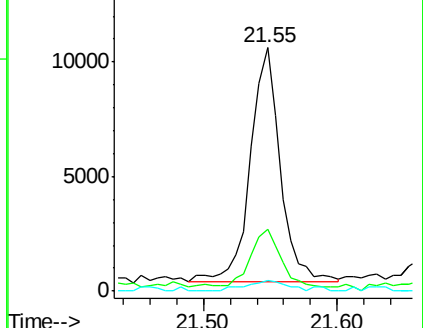
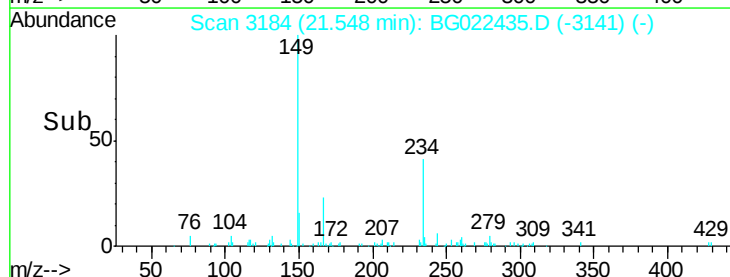
279 4.3 3.2 4.8

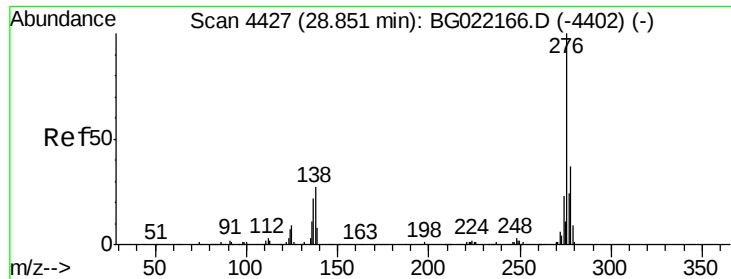


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

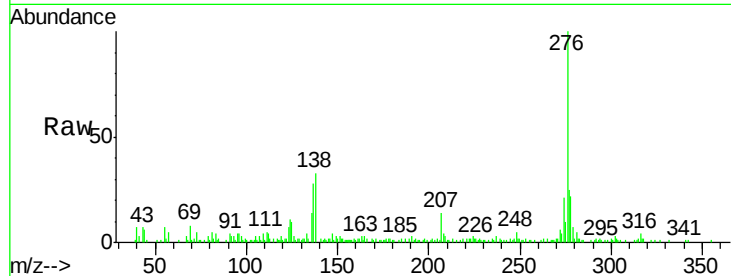




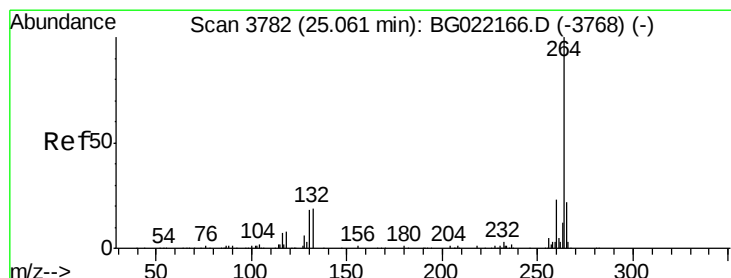
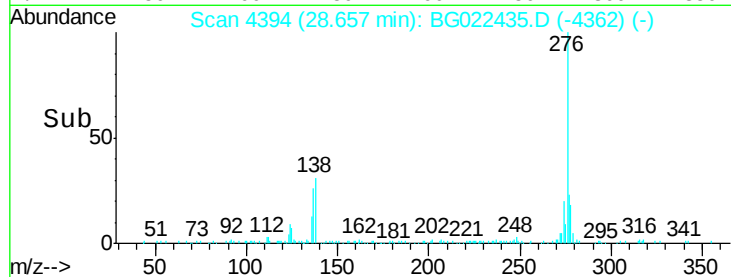
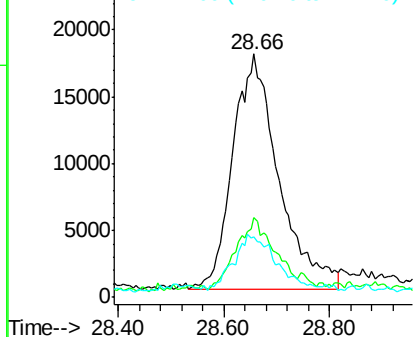
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 10.85 ng
 RT: 28.66 min Scan# 4394
 Delta R.T. -0.11 min
 Lab File: BG022435.D
 Acq: 18 Jun 2016 22:38

Instrument :
 BNA_G
 ClientSampleId :
 STA-1120-(0-4)

Tgt Ion	Ratio	Lower	Upper
276	100		
138	26.1	14.0	21.0#
277	21.5	20.6	30.8

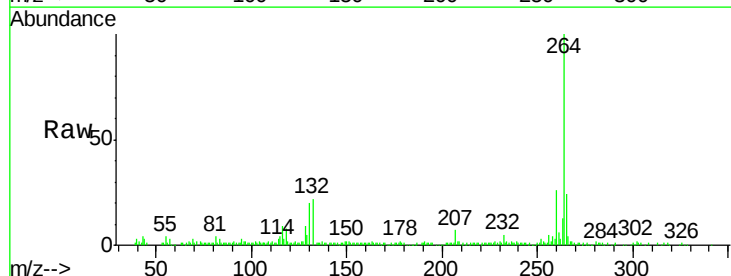


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

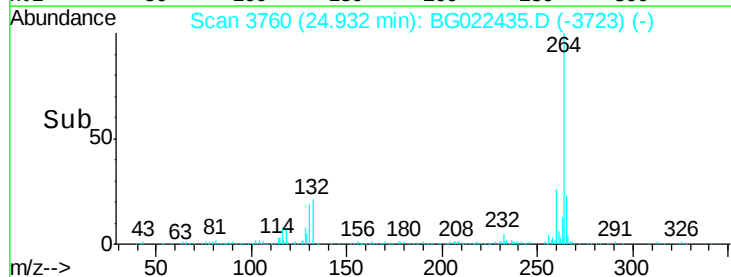
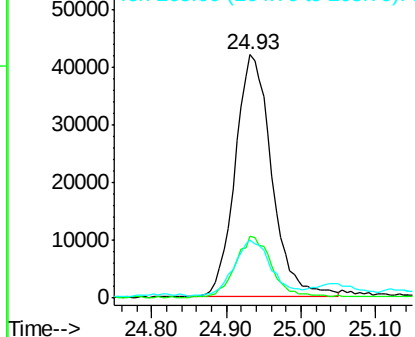


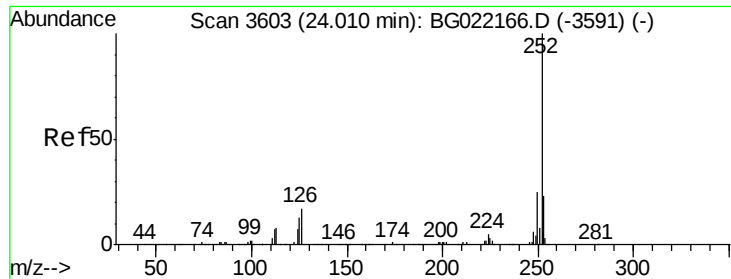
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 24.93 min Scan# 3760
 Delta R.T. -0.08 min
 Lab File: BG022435.D
 Acq: 18 Jun 2016 22:38

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.6	20.2	30.4
265	23.7	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

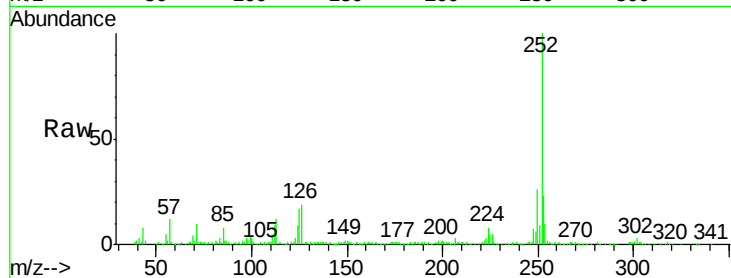




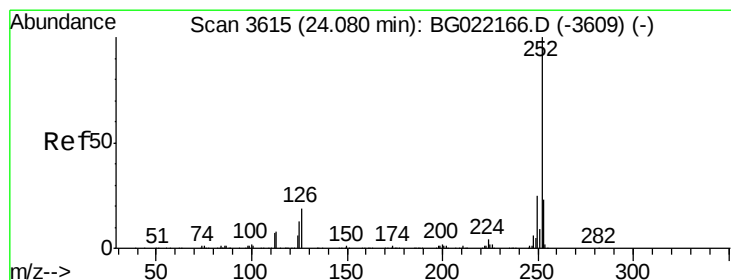
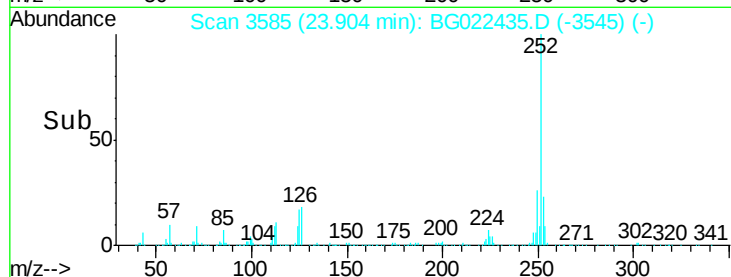
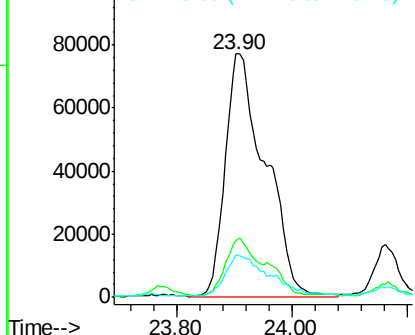
#87
Benzo(b)fluoranthene
Concen: 44.10 ng
RT: 23.90 min Scan# 3585
Delta R.T. -0.06 min
Lab File: BG022435.D
Acq: 18 Jun 2016 22:38

Instrument :
BNA_G
ClientSampleId :
STA-1120-(0-4)

Tgt Ion:252 Resp: 368197
Ion Ratio Lower Upper
252 100
253 23.3 17.5 26.3
125 17.4 8.6 13.0#

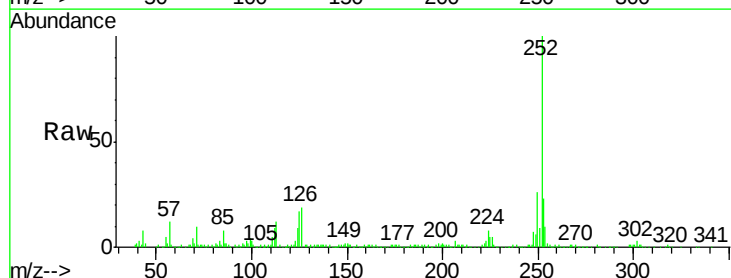


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

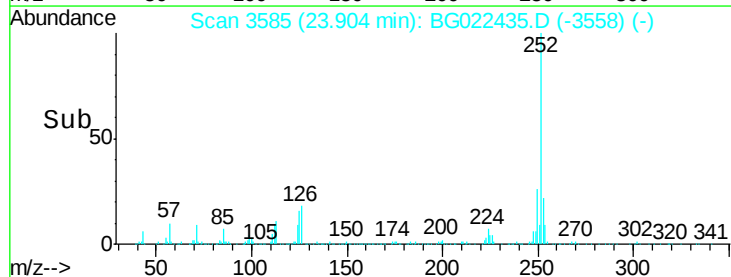
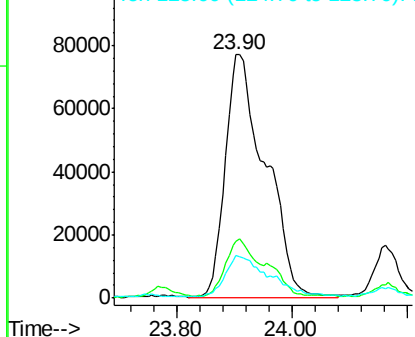


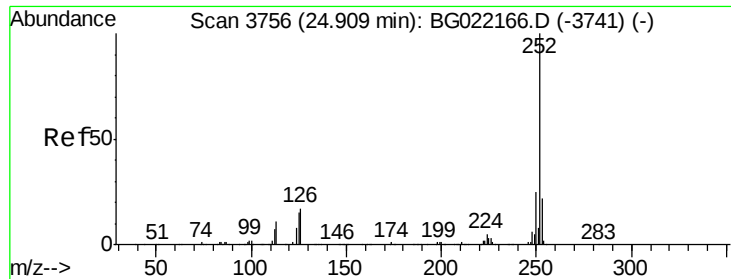
#88
Benzo(k)fluoranthene
Concen: 44.80 ng
RT: 23.90 min Scan# 3585
Delta R.T. -0.14 min
Lab File: BG022435.D
Acq: 18 Jun 2016 22:38

Tgt Ion:252 Resp: 368197
Ion Ratio Lower Upper
252 100
253 23.3 17.8 26.8
125 17.4 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: 21.41 ng

RT: 24.78 min Scan# 3734

Delta R.T. -0.08 min

Lab File: BG022435.D

Acq: 18 Jun 2016 22:38

Instrument :

BNA_G

ClientSampleId :

STA-1120-(0-4)

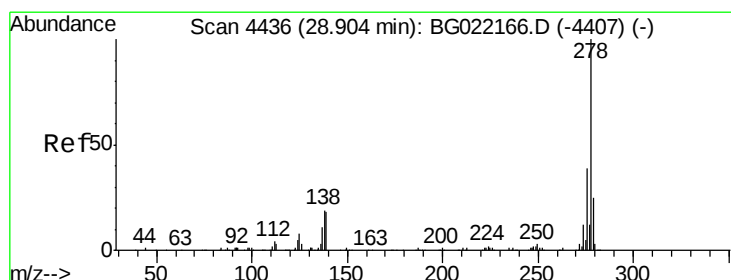
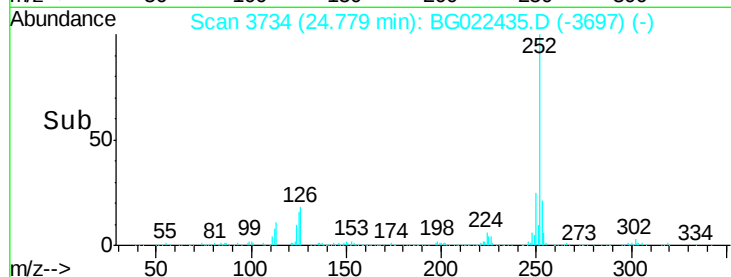
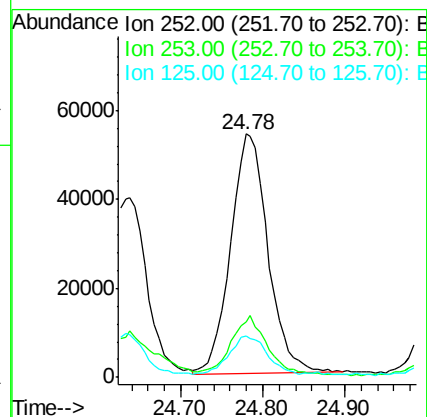
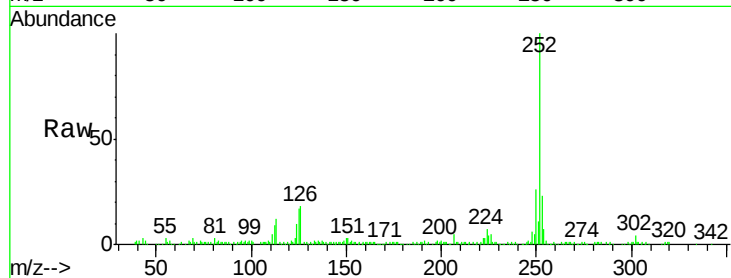
Tgt Ion:252 Resp: 170881

Ion Ratio Lower Upper

252 100

253 22.8 17.1 25.7

125 16.9 9.6 14.4#



#90

Dibenzo(a,h)anthracene

Concen: 3.13 ng

RT: 28.69 min Scan# 4400

Delta R.T. -0.13 min

Lab File: BG022435.D

Acq: 18 Jun 2016 22:38

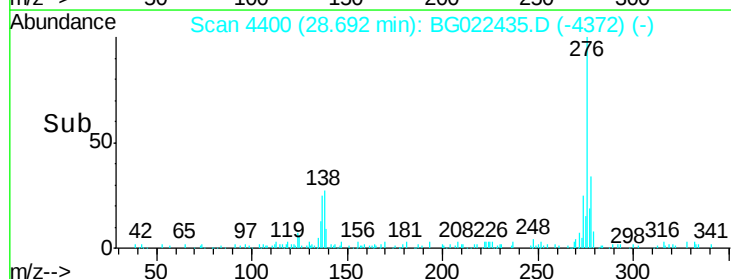
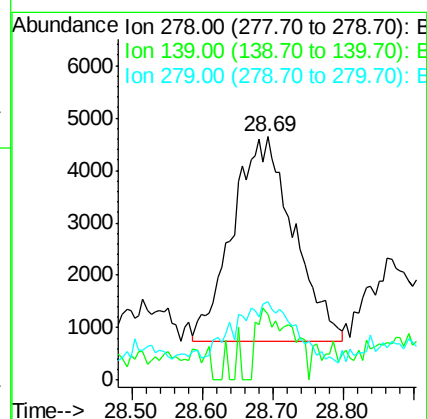
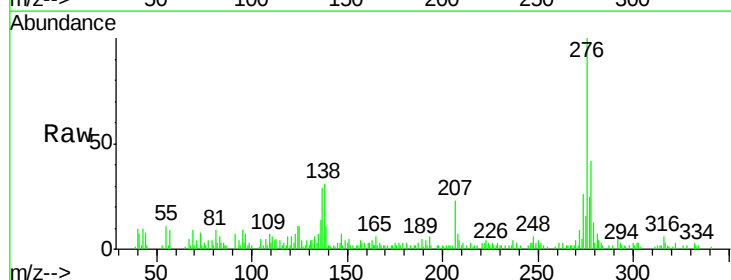
Tgt Ion:278 Resp: 23545

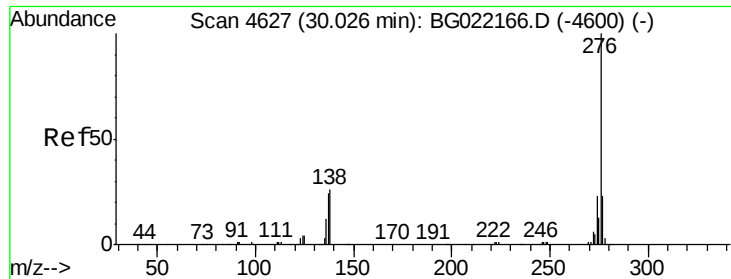
Ion Ratio Lower Upper

278 100

139 26.8 11.9 17.9#

279 32.2 18.2 27.2#

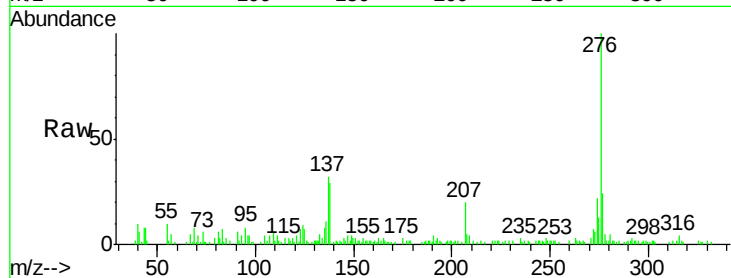




#91
 Benzo(g,h,i)perylene
 Concen: 11.19 ng
 RT: 29.81 min Scan# 4590
 Delta R.T. -0.13 min
 Lab File: BG022435.D
 Acq: 18 Jun 2016 22:38

Instrument :
 BNA_G
 ClientSampleId :
 STA-1120-(0-4)

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	19.4	29.2
138	28.6	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

