

Data Path : Z:\HPCHEM1\BNA G\DATA\BG112015\
 Data File : BG019737.D
 Acq On : 21 Nov 2015 2:34
 Operator : UM/NP
 Sample : G4428-05
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Nov 21 04:15:51 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG111615.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat Nov 21 01:06:32 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.12	152	21516	20.00	ng/ul	0.00
18) Naphthalene-d8	10.95	136	98069	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.76	164	82968	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.50	188	228175	20.00	ng/ul	0.00
78) Chrysene-d12	21.77	240	306069	20.00	ng/ul	0.00
86) Perylene-d12	25.08	264	296216	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.40	96	1635	3.24	ng/uL	0.00
5) Phenol-d5	7.26	99	35687	16.19	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.43	67	23321	16.15	ng/ul	0.00
9) 2-Chlorophenol-d4	7.64	132	23271	16.46	ng/ul	0.00
13) 4-Methylphenol-d8	8.82	113	26254	14.39	ng/ul	0.00
19) Nitrobenzene-d5	9.29	128	12199	15.15	ng/ul	0.00
22) 2-Nitrophenol-d4	10.02	143	14636	16.15	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.56	165	28887	14.74	ng/ul	0.00
29) 4-Chloroaniline-d4	11.07	131	17531	9.42	ng/ul	0.00
44) Dimethylphthalate-d6	14.15	166	108173	14.42	ng/ul	0.00
47) Acenaphthylene-d8	14.45	160	95255	11.71	ng/ul	0.00
52) 4-Nitrophenol-d4	14.95	143	13609	11.51	ng/ul	0.00
58) Fluorene-d10	15.74	176	76268	11.36	ng/ul	-0.01
63) 4,6-Dinitro-2-methylphenol	15.86	200	16664	11.31	ng/ul	0.00
71) Anthracene-d10	17.60	188	119443	10.78	ng/ul	0.00
79) Pyrene-d10	19.88	212	137939	9.89	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.85	264	126462	8.18	ng/ul	0.00

Target Compounds

						Ovalue
28) Naphthalene	11.00	128	98100	18.52	ng/ul	99
30) 4-Chloroaniline	11.00	127	13234	6.84	ng/ul#	18
34) 2-Methylnaphthalene	12.60	142	56807	13.45	ng/ul	97
35) 1-Methylnaphthalene	12.81	142	49120	11.67	ng/ul	94
41) 1,1'-Biphenyl	13.59	154	17853	2.89	ng/ul	95
45) Dimethylphthalate	14.20	163	54642	7.34	ng/ul	96
48) Acenaphthylene	14.48	152	11204	1.38	ng/ul#	70
50) Acenaphthene	14.82	153	126648	22.79	ng/ul	96
54) Dibenzofuran	15.15	168	122156	14.99	ng/ul	99
59) Fluorene	15.80	166	194838	27.35	ng/ul	96
61) 4-Nitroaniline	15.80	138	2767	1.85	ng/ul#	1
70) Phenanthrene	17.64	178	481698	39.45	ng/ul	97
72) Anthracene	17.64	178	484165	39.32	ng/ul	99
75) Carbazole	17.90	167	203934	20.63	ng/ul	97
77) Fluoranthene	19.55	202	2361518	151.74	ng/ul#	90
80) Pyrene	19.92	202	2248038	125.76	ng/ul#	94
83) Benzo(a)anthracene	21.76	228	1273607	68.65	ng/ul	95
85) Chrysene	21.83	228	1297696	74.30	ng/ul	96
88) Benzo(b)fluoranthene	24.04	252	1232088	67.50	ng/ul	97
89) Benzo(k)fluoranthene	24.04	252	1232088	69.97	ng/ul	97
91) Benzo(a)pyrene	24.77	252	541223	30.80	ng/ul	98
92) Indeno(1,2,3-cd)pyrene	28.86	276	534965	27.20	ng/ul	94
93) Dibenzo(a,h)anthracene	28.89	278	154095	9.53	ng/ul#	89

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ALS Vial : 15 Sample Multiplier: 1

Instrument :
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Quant Title : SVOA CALIBRATION
QLast Update : Sat Nov 21 01:06:32 2015
Response via : Initial Calibration

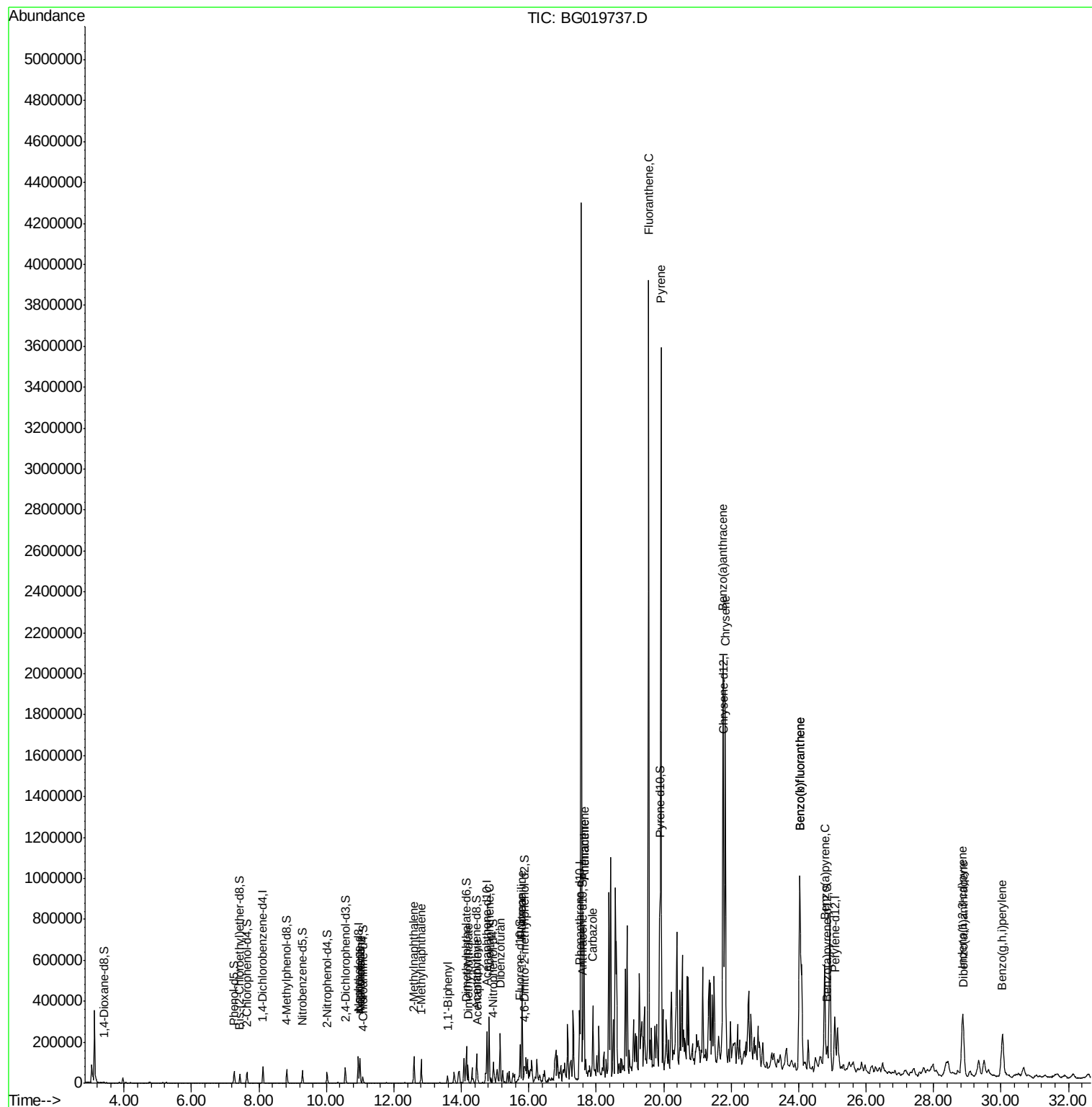
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Benzo(q,h,i)perylene	30.04	276	443119	27.16	ng/ul	97

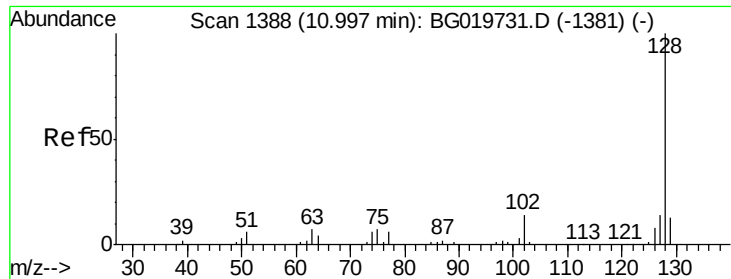
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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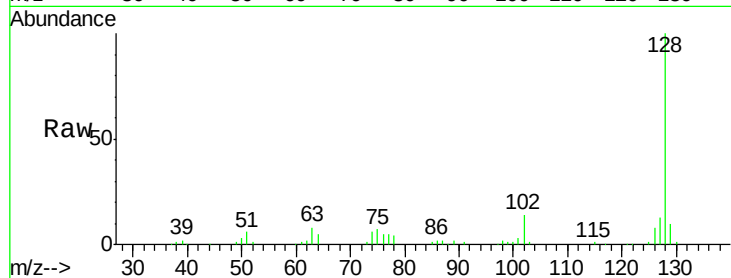




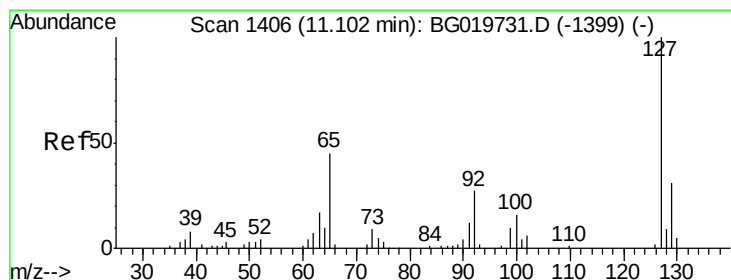
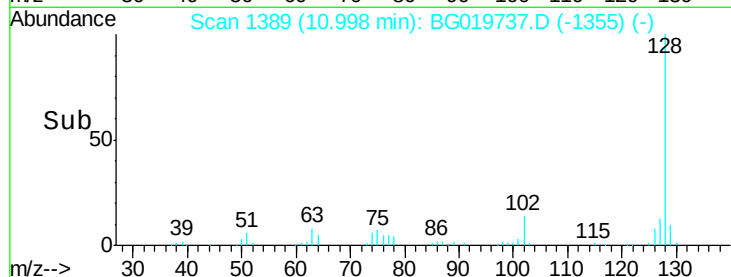
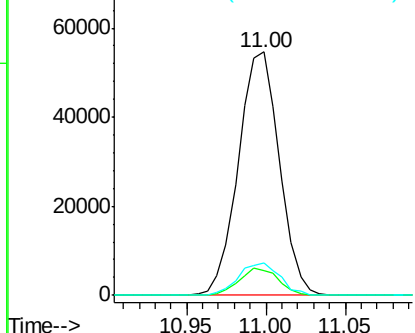
#28
Naphthalene
Concen: 18.52 ng/ul
RT: 11.00 min Scan# 1389
Delta R.T. 0.00 min
Lab File: BG019737.D
Acq: 21 Nov 2015 2:34

Instrument :
BNA_G
ClientSampleId :

Tot Ion:128 Resp: 98100
Ion Ratio Lower Upper
128 100
129 9.9 8.1 12.1
127 13.3 10.0 15.0

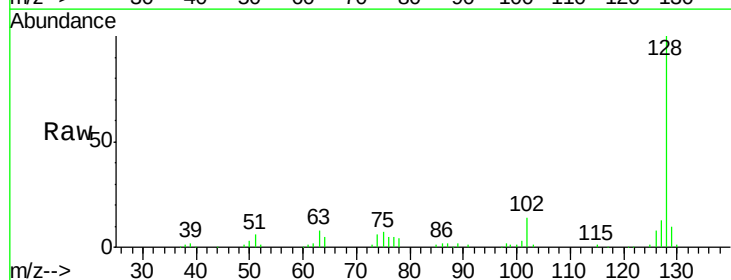


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

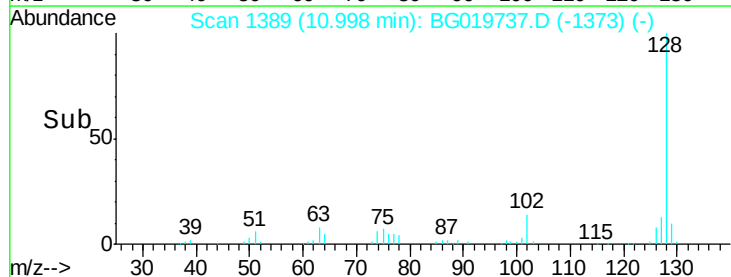
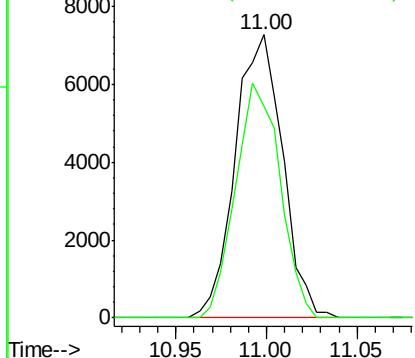


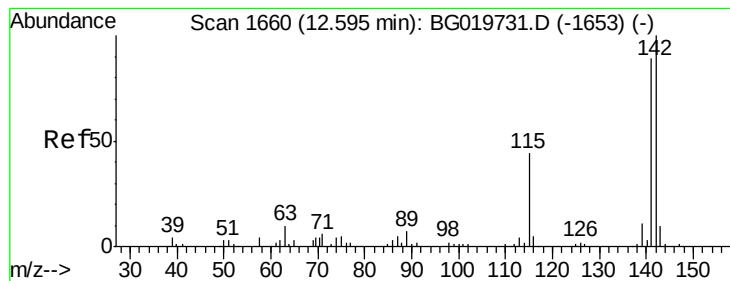
#30
4-Chloroaniline
Concen: 6.84 ng/ul
RT: 11.00 min Scan# 1389
Delta R.T. -0.10 min
Lab File: BG019737.D
Acq: 21 Nov 2015 2:34

Tgt Ion:127 Resp: 13234
Ion Ratio Lower Upper
127 100
129 74.8 24.2 36.4#



Abundance Ion 127.00 (126.70 to 127.70): E
Ion 129.00 (128.70 to 129.70): E





#34

2-Methylnaphthalene

Concen: 13.45 ng/ul

RT: 12.60 min Scan# 1661

Delta R.T. 0.00 min

Lab File: BG019737.D

Acq: 21 Nov 2015 2:34

Instrument :

BNA_G

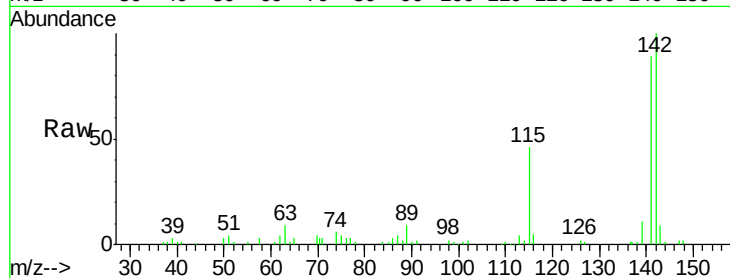
ClientSampleId :

Tot Ion:142 Resp: 56807

Ion Ratio Lower Upper

142 100

141 88.7 68.8 103.2



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

12.60

40000

30000

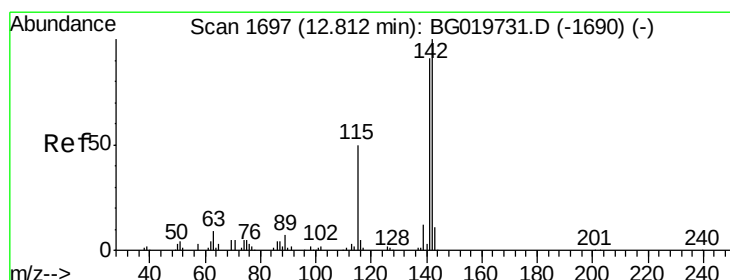
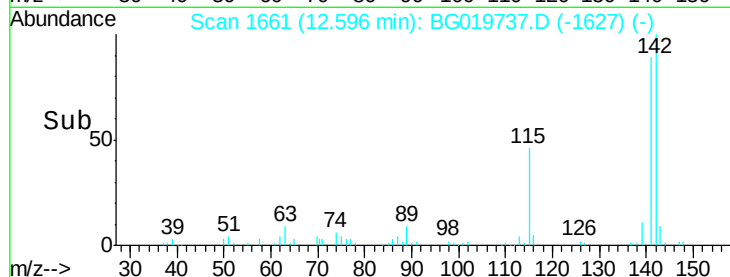
20000

10000

0

12.55 12.60 12.65

Time-->



#35

1-Methylnaphthalene

Concen: 11.67 ng/ul

RT: 12.81 min Scan# 1698

Delta R.T. 0.00 min

Lab File: BG019737.D

Acq: 21 Nov 2015 2:34

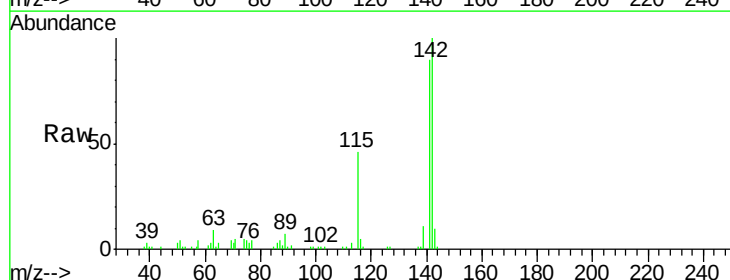
Tgt Ion:142 Resp: 49120

Ion Ratio Lower Upper

142 100

141 89.6 76.6 114.8

116 4.9 4.1 6.1



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E

12.81

40000

30000

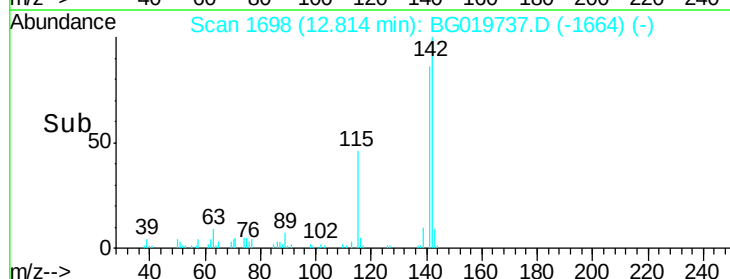
20000

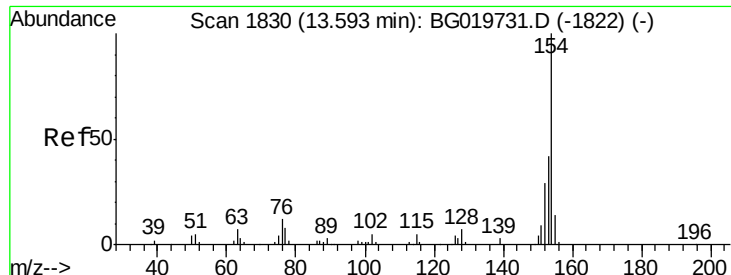
10000

0

12.75 12.80 12.85

Time-->

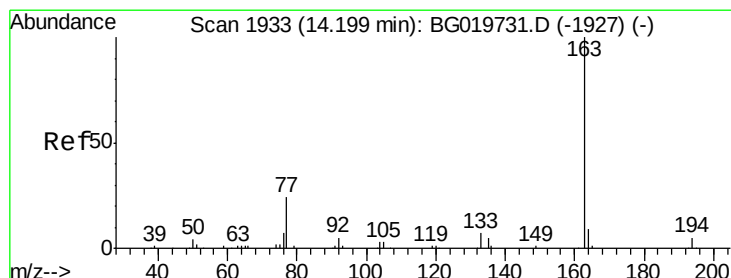
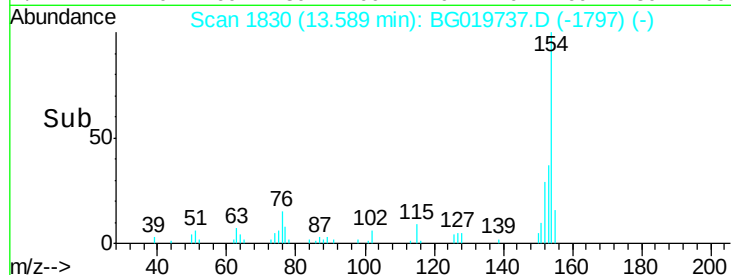
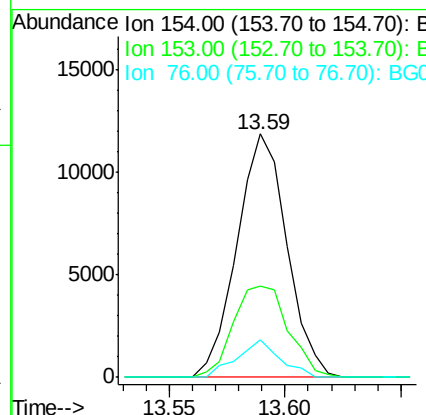
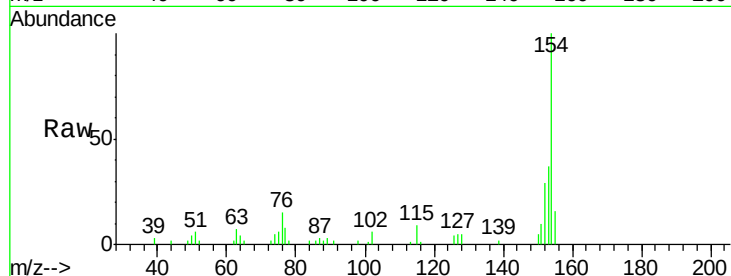




#41
 1,1'-Biphenyl
 Concen: 2.89 ng/ul
 RT: 13.59 min Scan# 1830
 Delta R.T. -0.00 min
 Lab File: BG019737.D
 Acq: 21 Nov 2015 2:34

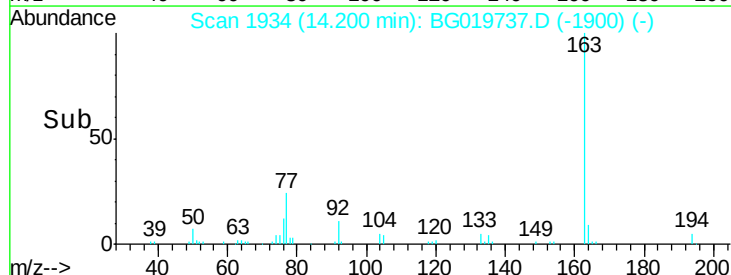
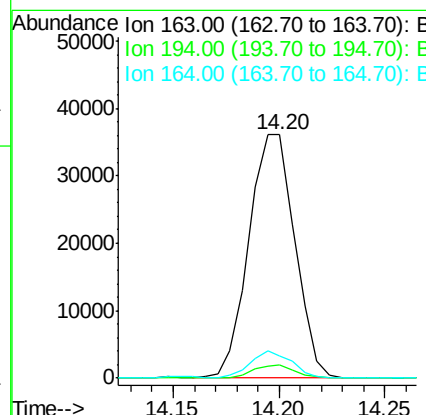
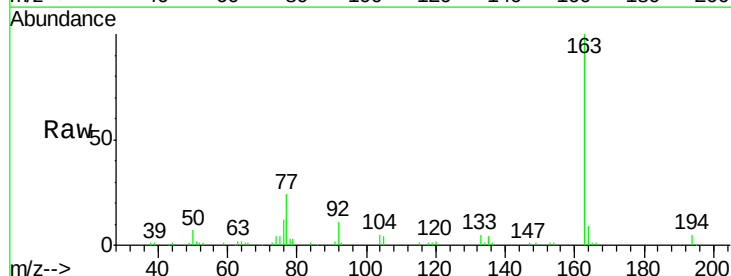
Instrument :
 BNA_G
 ClientSampleId :

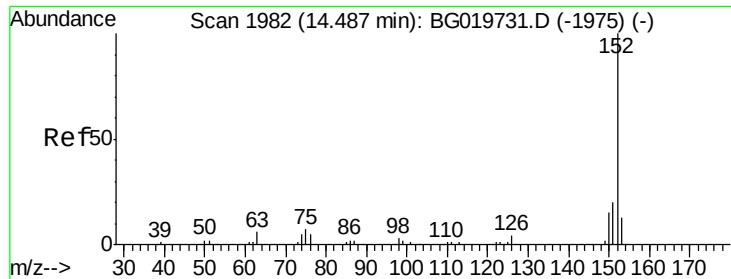
Tot Ion	Ratio	Lower	Upper
154	100		
153	37.2	33.4	50.0
76	15.5	12.1	18.1



#45
 Dimethylphthalate
 Concen: 7.34 ng/ul
 RT: 14.20 min Scan# 1934
 Delta R.T. 0.00 min
 Lab File: BG019737.D
 Acq: 21 Nov 2015 2:34

Tgt Ion	Ratio	Lower	Upper
163	100		
194	5.2	3.5	5.3
164	8.9	8.3	12.5





#48

Acenaphthylene

Concen: 1.38 ng/ul

RT: 14.48 min Scan# 1982

Delta R.T. -0.00 min

Lab File: BG019737.D

Acq: 21 Nov 2015 2:34

Instrument :

BNA_G

ClientSampleId :

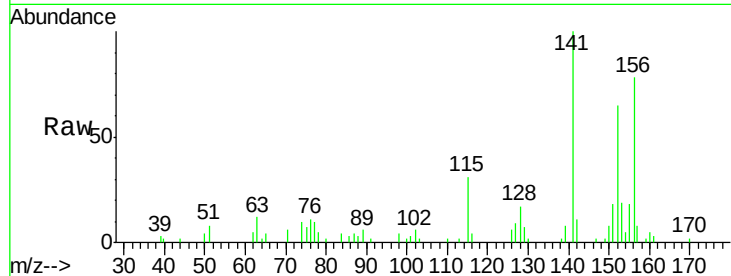
Tot Ion:152 Resp: 11204

Ion Ratio Lower Upper

152 100

151 27.8 15.1 22.7#

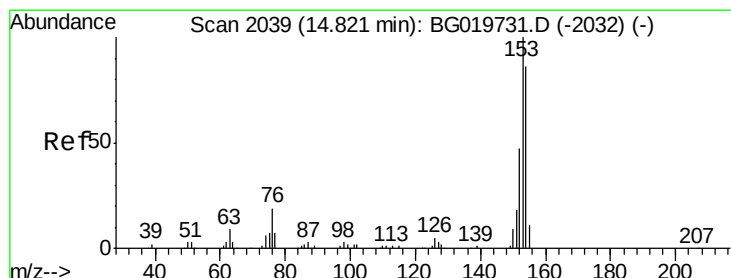
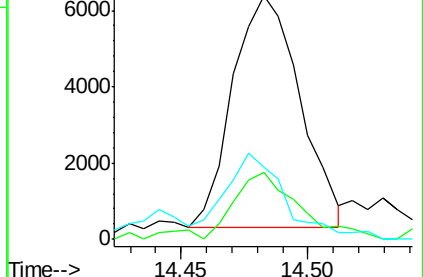
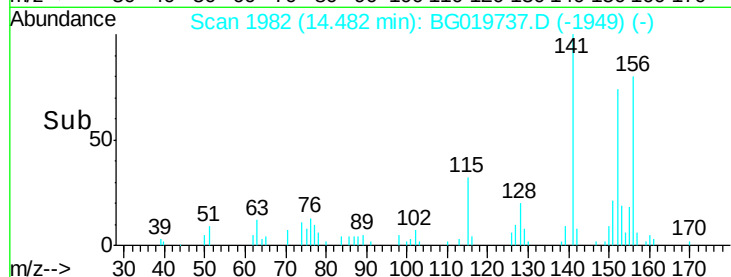
153 29.7 9.8 14.8#



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



#50

Acenaphthene

Concen: 22.79 ng/ul

RT: 14.82 min Scan# 2039

Delta R.T. -0.00 min

Lab File: BG019737.D

Acq: 21 Nov 2015 2:34

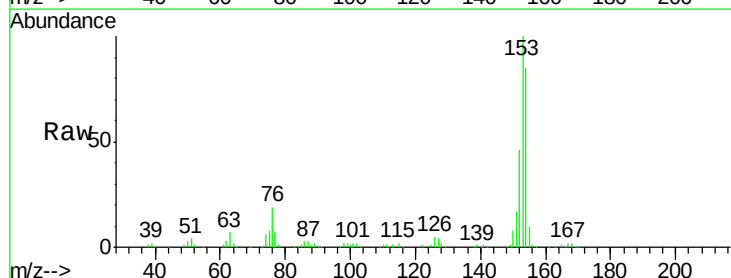
Tgt Ion:153 Resp: 126648

Ion Ratio Lower Upper

153 100

152 46.2 40.9 61.3

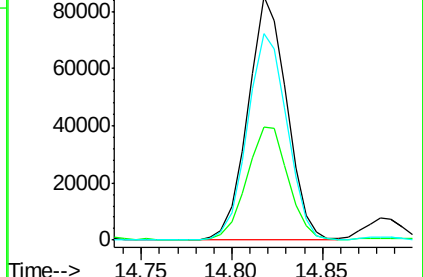
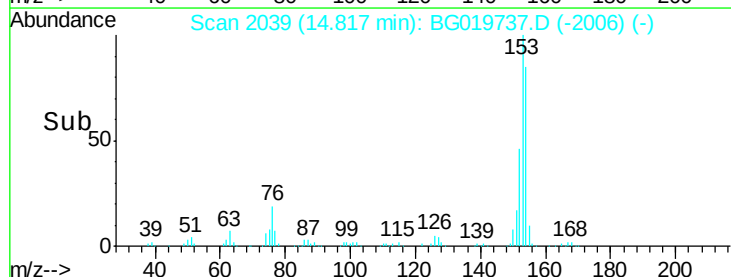
154 85.0 69.1 103.7

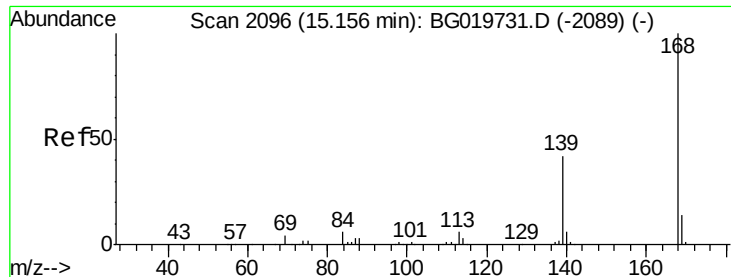


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#54

Dibenzo(furan)

Concen: 14.99 ng/ul

RT: 15.15 min Scan# 2096

Delta R.T. -0.00 min

Lab File: BG019737.D

Acq: 21 Nov 2015 2:34

Instrument :

BNA_G

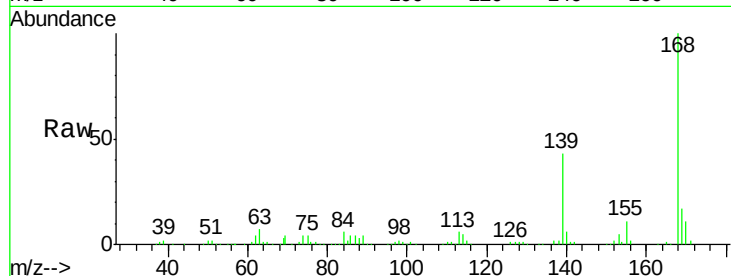
ClientSampleId :

Tot Ion:168 Resp: 122156

Ion Ratio Lower Upper

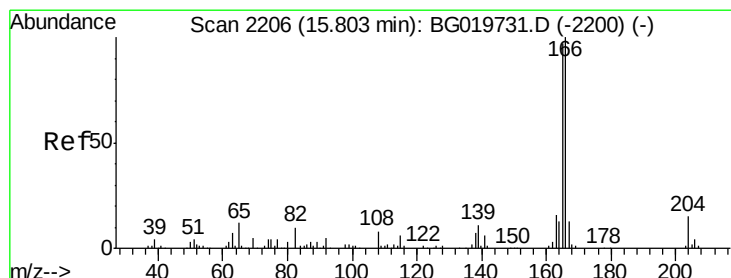
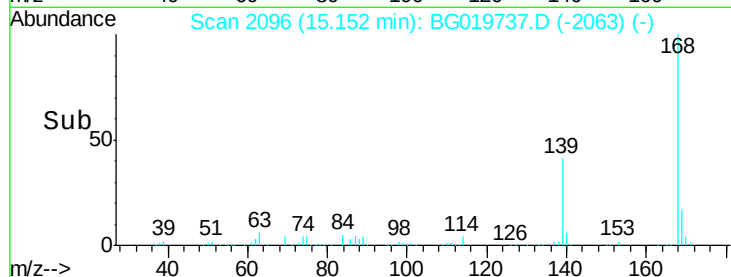
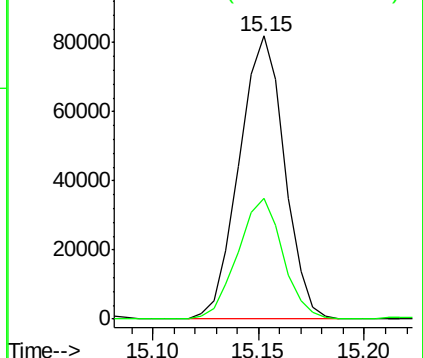
168 100

139 42.5 34.7 52.1



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E



#59

Fluorene

Concen: 27.35 ng/ul

RT: 15.80 min Scan# 2206

Delta R.T. -0.00 min

Lab File: BG019737.D

Acq: 21 Nov 2015 2:34

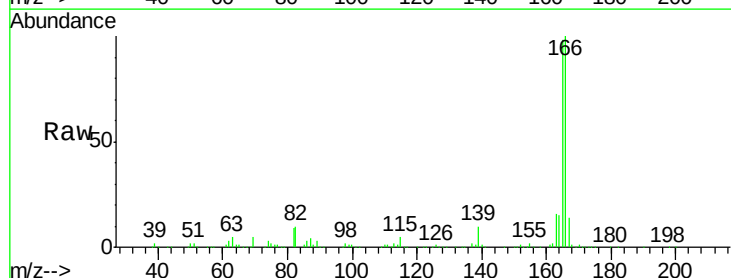
Tgt Ion:166 Resp: 194838

Ion Ratio Lower Upper

166 100

165 97.7 81.4 122.2

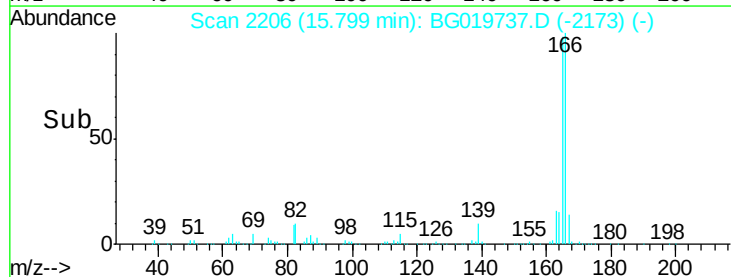
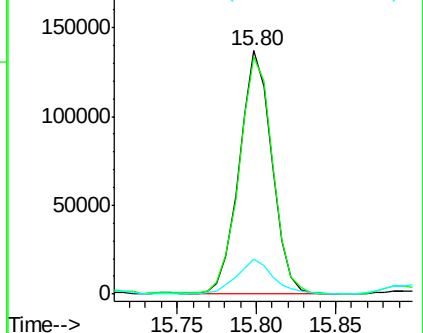
167 14.3 11.1 16.7

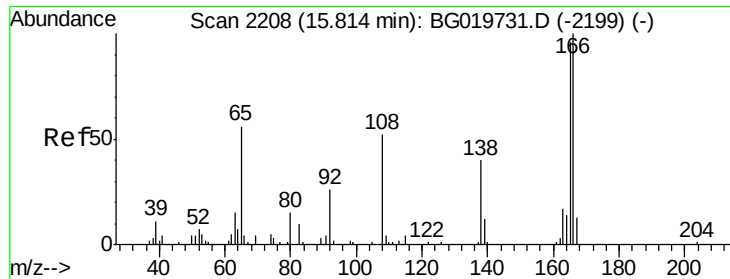


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

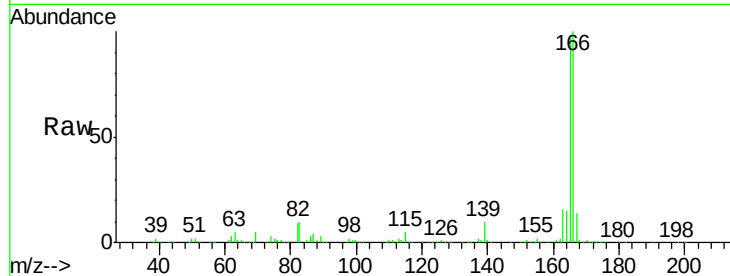




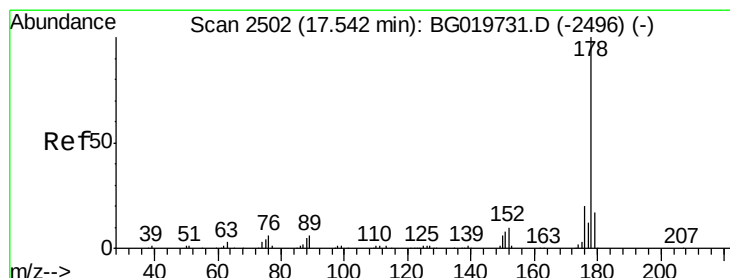
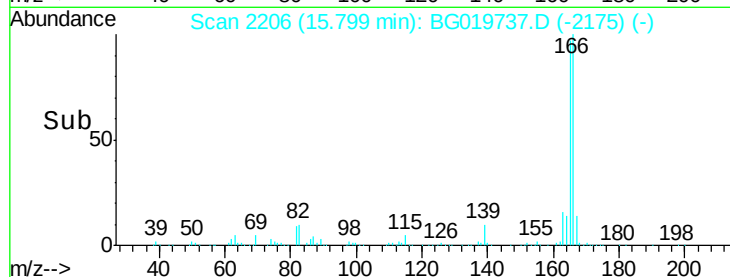
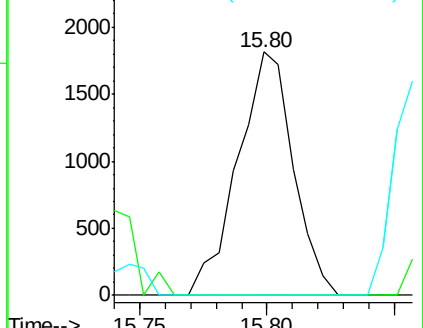
#61
4-Nitroaniline
Concen: 1.85 ng/ul
RT: 15.80 min Scan# 2206
Delta R.T. -0.02 min
Lab File: BG019737.D
Acq: 21 Nov 2015 2:34

Instrument :
BNA_G
ClientSampled :

Tot Ion:138 Resp: 2767
Ion Ratio Lower Upper
138 100
92 0.0 49.6 74.4#
108 0.0 104.9 157.3#

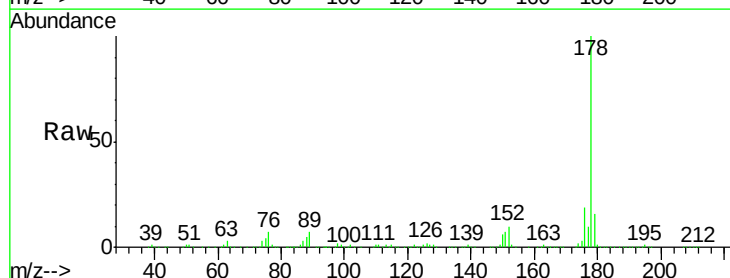


Abundance Ion 138.00 (137.70 to 138.70): E
Ion 92.00 (91.70 to 92.70): BG
Ion 108.00 (107.70 to 108.70): E

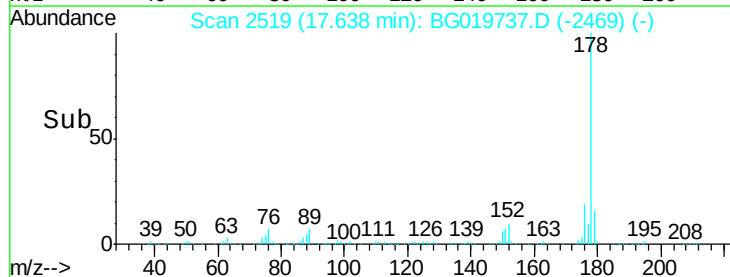
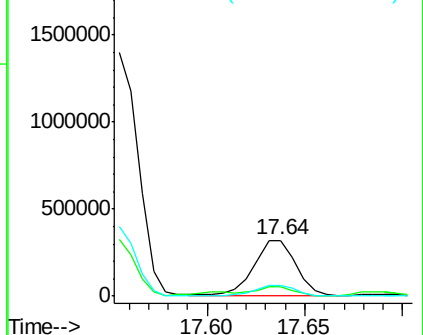


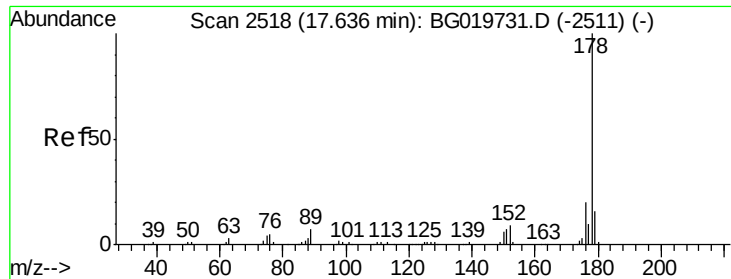
#70
Phenanthrene
Concen: 39.45 ng/ul
RT: 17.64 min Scan# 2519
Delta R.T. 0.10 min
Lab File: BG019737.D
Acq: 21 Nov 2015 2:34

Tgt Ion:178 Resp: 481698
Ion Ratio Lower Upper
178 100
179 16.0 12.2 18.2
176 19.3 16.6 24.8



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





#72

Anthracene

Concen: 39.32 ng/ul

RT: 17.64 min Scan# 2519

Delta R.T. 0.00 min

Lab File: BG019737.D

Acq: 21 Nov 2015 2:34

Instrument :

BNA_G

ClientSampled :

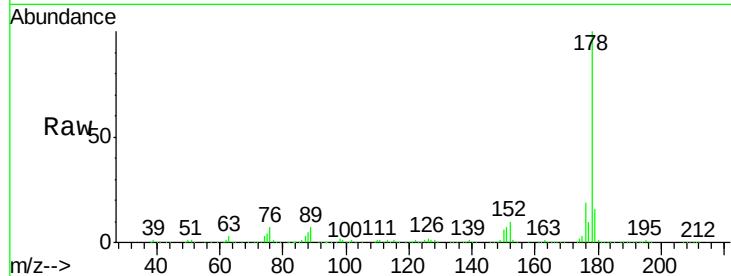
Tot Ion:178 Resp: 484165

Ion Ratio Lower Upper

178 100

179 16.0 12.6 19.0

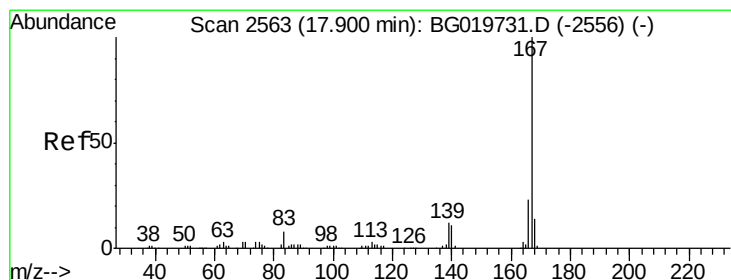
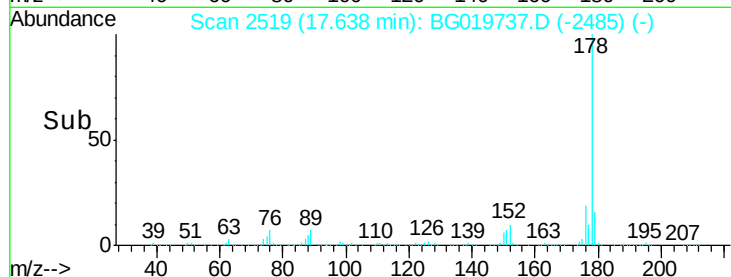
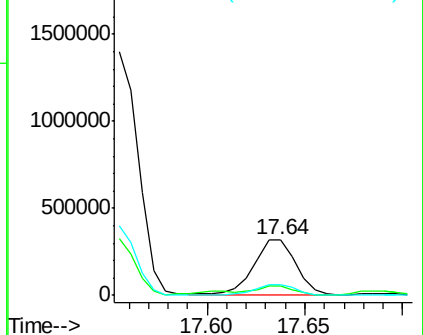
176 19.3 15.0 22.4



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#75

Carbazole

Concen: 20.63 ng/ul

RT: 17.90 min Scan# 2563

Delta R.T. -0.00 min

Lab File: BG019737.D

Acq: 21 Nov 2015 2:34

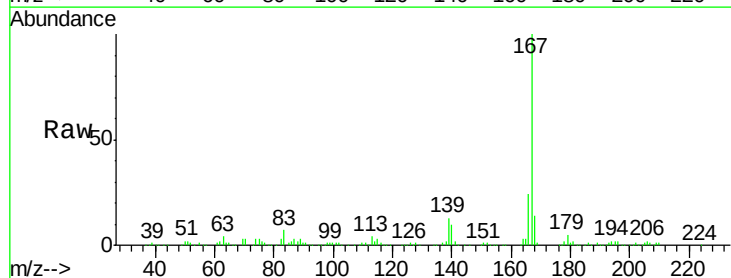
Tgt Ion:167 Resp: 203934

Ion Ratio Lower Upper

167 100

166 24.5 18.1 27.1

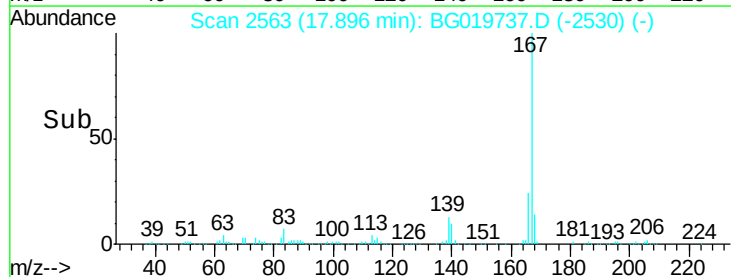
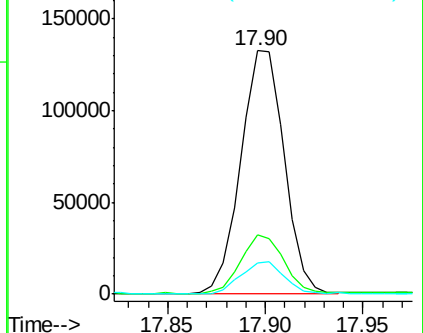
139 12.9 9.8 14.6

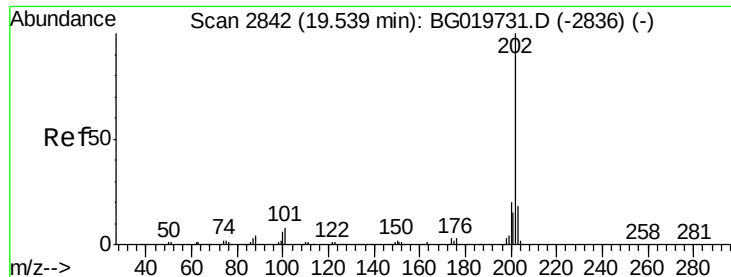


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#77

Fluoranthene

Concen: 151.74 ng/ul

RT: 19.55 min Scan# 2845

Delta R.T. 0.01 min

Lab File: BG019737.D

Acq: 21 Nov 2015 2:34

Instrument :

BNA_G

ClientSampleId :

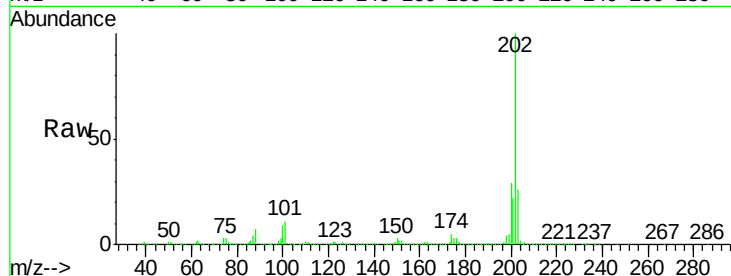
Tot Ion:202 Resp: 2361518

Ion Ratio Lower Upper

202 100

101 10.5 5.2 7.8#

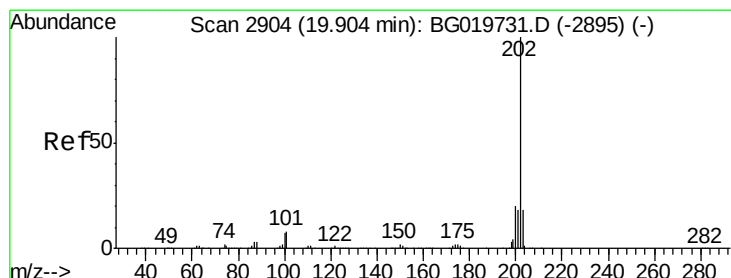
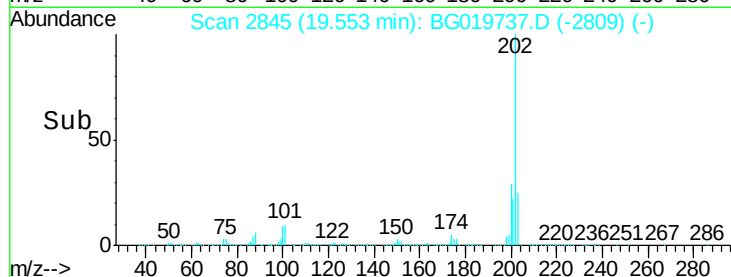
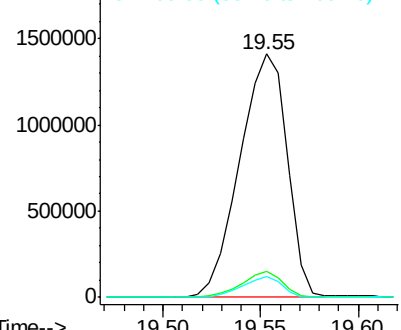
100 8.8 5.0 7.4#



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#80

Pyrene

Concen: 125.76 ng/ul

RT: 19.92 min Scan# 2907

Delta R.T. 0.01 min

Lab File: BG019737.D

Acq: 21 Nov 2015 2:34

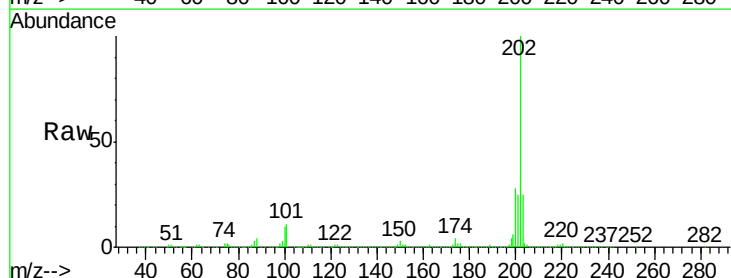
Tgt Ion:202 Resp: 2248038

Ion Ratio Lower Upper

202 100

101 11.4 7.0 10.6#

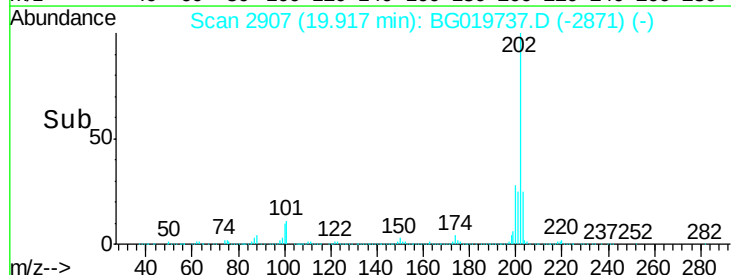
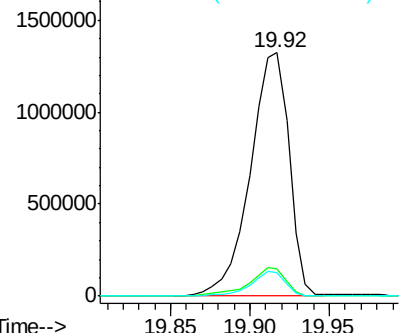
100 9.9 6.6 10.0

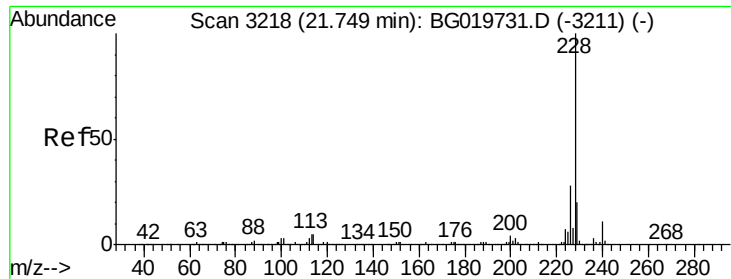


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#83

Benzo(a)anthracene

Concen: 68.65 ng/ul

RT: 21.76 min Scan# 3220

Delta R.T. 0.01 min

Lab File: BG019737.D

Acq: 21 Nov 2015 2:34

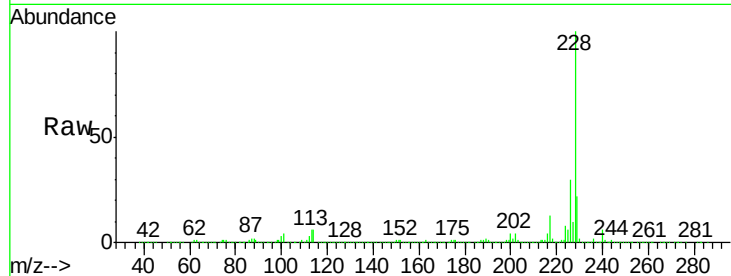
Instrument :

BNA_G

ClientSampleId :

Tot Ion:228 Resp: 1273607

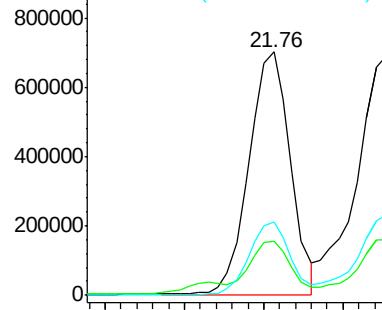
Ion	Ratio	Lower	Upper
228	100		
229	22.3	15.7	23.5
226	30.2	22.6	33.8



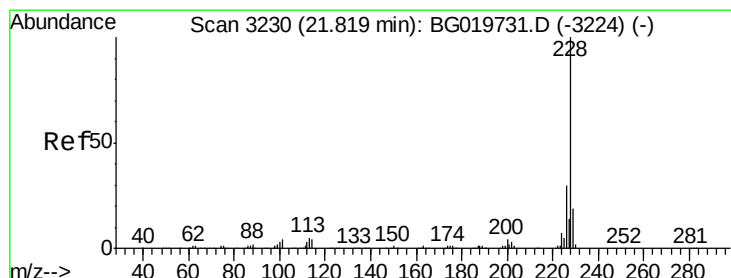
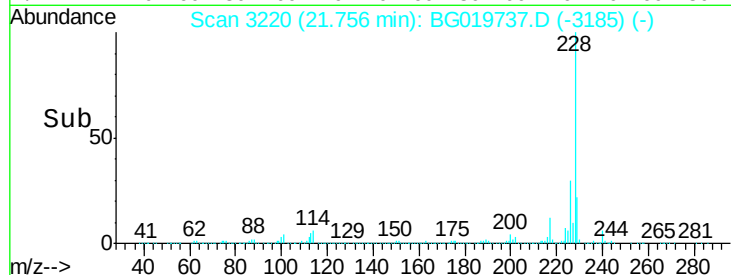
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E



Time-->



#85

Chrysene

Concen: 74.30 ng/ul

RT: 21.83 min Scan# 3232

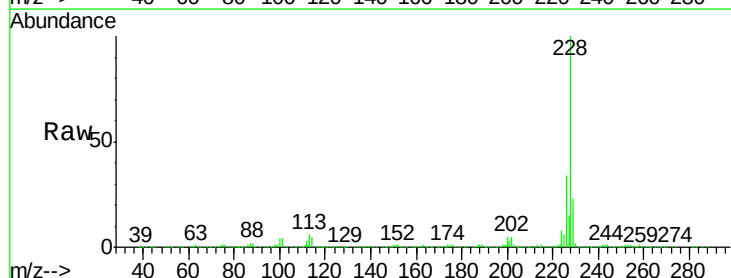
Delta R.T. 0.01 min

Lab File: BG019737.D

Acq: 21 Nov 2015 2:34

Tgt Ion:228 Resp: 1297696

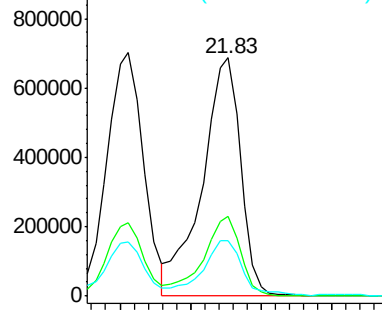
Ion	Ratio	Lower	Upper
228	100		
226	33.6	24.9	37.3
229	23.0	17.0	25.6



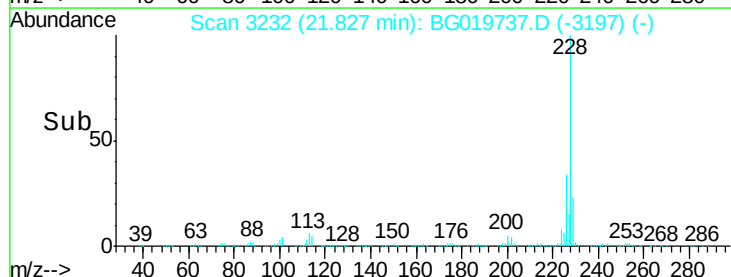
Abundance Ion 228.00 (227.70 to 228.70): E

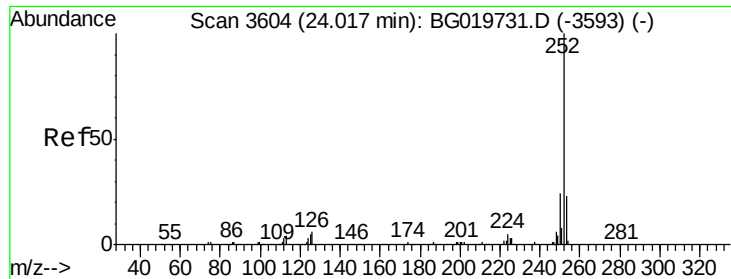
Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



Time-->





#88

Benzo(b)fluoranthene

Concen: 67.50 ng/ul

RT: 24.04 min Scan# 3608

Delta R.T. 0.02 min

Lab File: BG019737.D

Acq: 21 Nov 2015 2:34

Instrument :

BNA_G

ClientSampled :

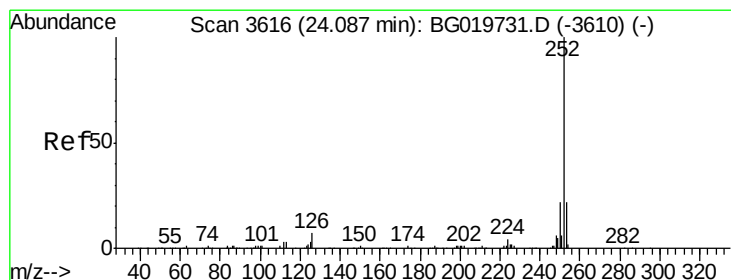
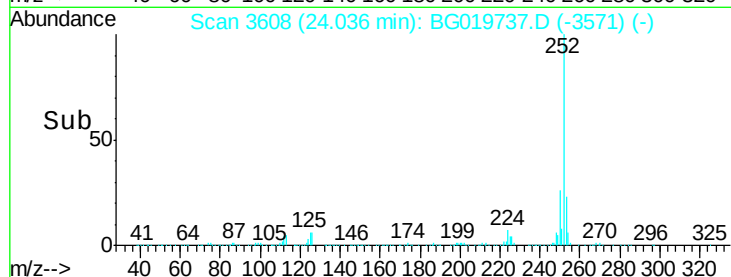
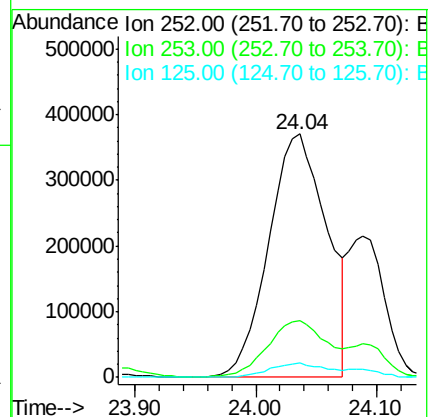
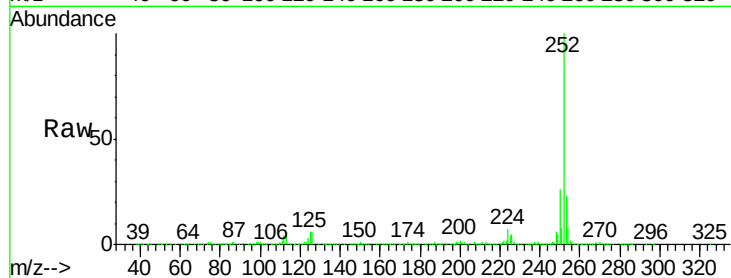
Tot Ion:252 Resp: 1232088

Ion Ratio Lower Upper

252 100

253 23.1 17.1 25.7

125 5.9 4.2 6.4



#89

Benzo(k)fluoranthene

Concen: 69.97 ng/ul

RT: 24.04 min Scan# 3608

Delta R.T. -0.05 min

Lab File: BG019737.D

Acq: 21 Nov 2015 2:34

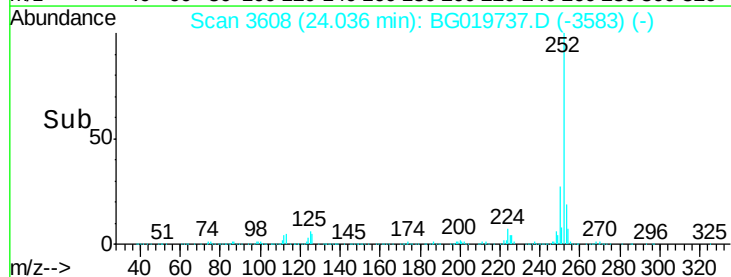
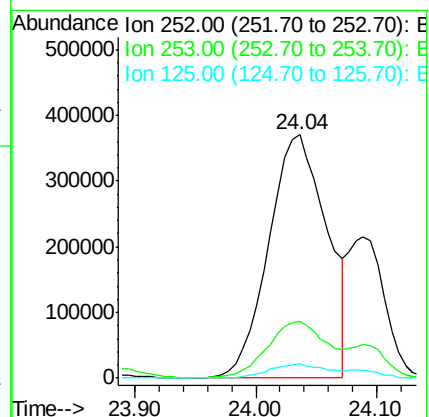
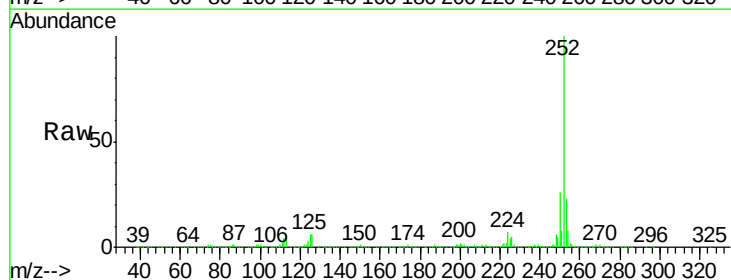
Tgt Ion:252 Resp: 1232088

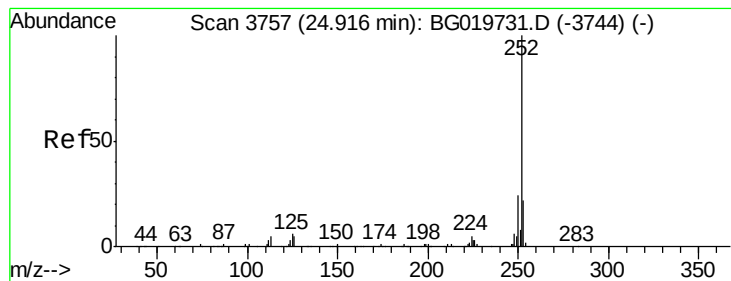
Ion Ratio Lower Upper

252 100

253 23.1 17.1 25.7

125 5.9 4.4 6.6





#91

Benzo(a)pyrene

Concen: 30.80 ng/ul

RT: 24.77 min Scan# 3733

Delta R.T. -0.15 min

Lab File: BG019737.D

Acq: 21 Nov 2015 2:34

Instrument :

BNA_G

ClientSampled :

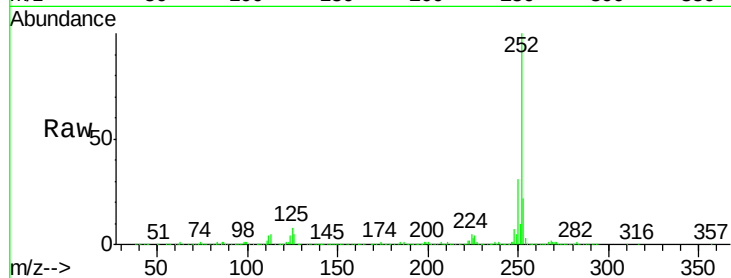
Tot Ion:252 Resp: 541223

Ion Ratio Lower Upper

252 100

253 21.8 16.9 25.3

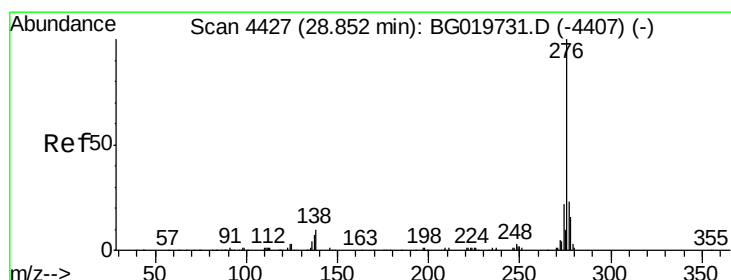
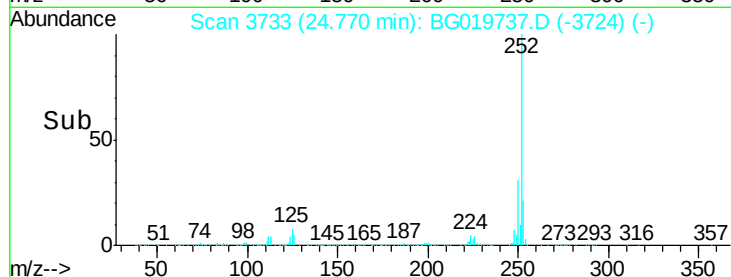
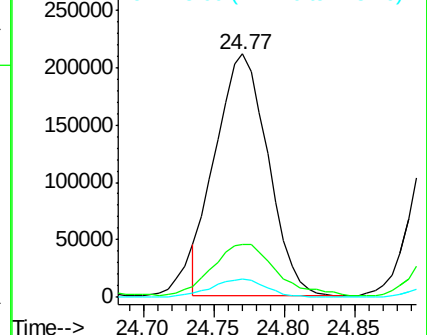
125 7.7 5.4 8.0



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



#92

Indeno(1,2,3-cd)pyrene

Concen: 27.20 ng/ul

RT: 28.86 min Scan# 4429

Delta R.T. 0.01 min

Lab File: BG019737.D

Acq: 21 Nov 2015 2:34

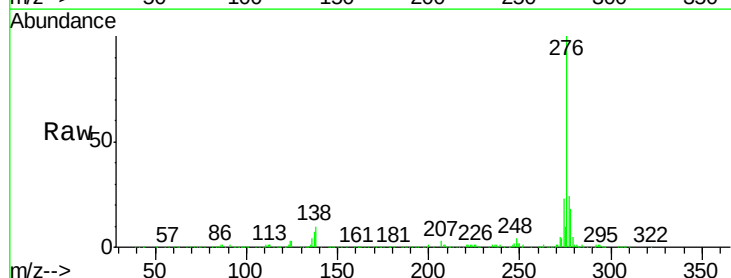
Tgt Ion:276 Resp: 534965

Ion Ratio Lower Upper

276 100

138 10.0 9.9 14.9

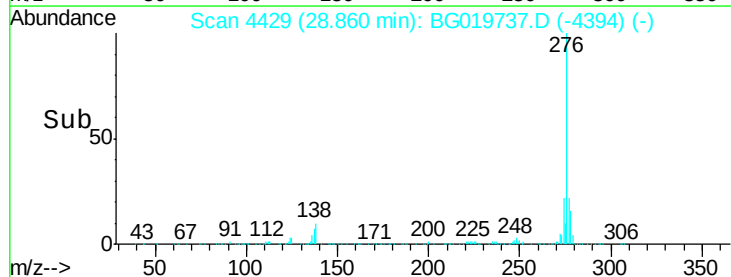
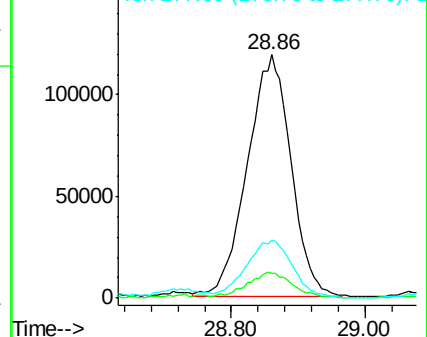
277 23.6 21.3 31.9

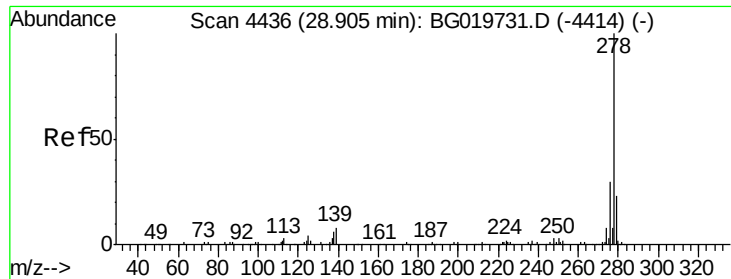


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#93

Dibenzo(a,h)anthracene

Concen: 9.53 ng/ul

RT: 28.89 min Scan# 4435

Delta R.T. -0.01 min

Lab File: BG019737.D

Acq: 21 Nov 2015 2:34

Instrument :

BNA_G

ClientSampleId :

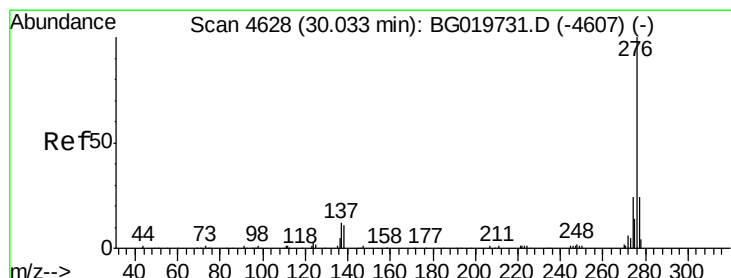
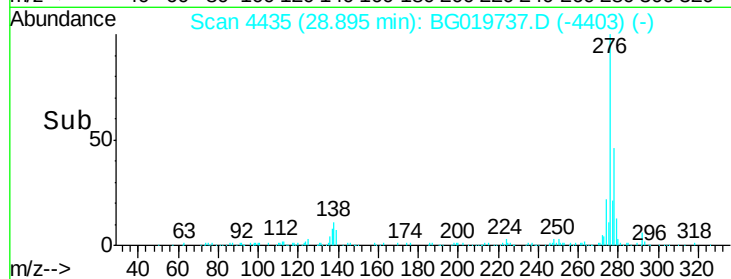
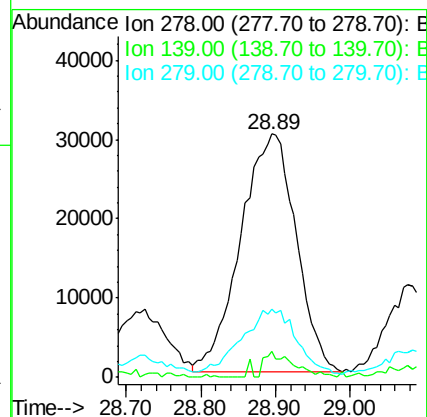
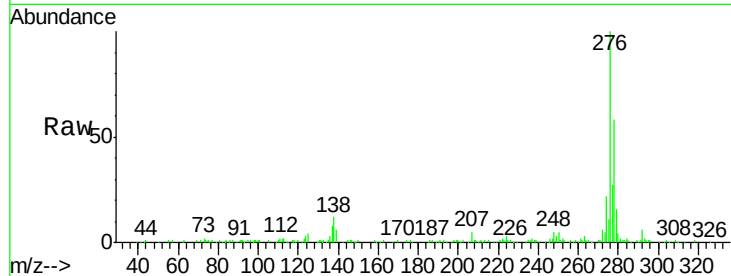
Tot Ion:278 Resp: 154095

Ion Ratio Lower Upper

278 100

139 10.8 5.9 8.9#

279 28.1 18.2 27.2#



#94

Benzo(g,h,i)perylene

Concen: 27.16 ng/ul

RT: 30.04 min Scan# 4630

Delta R.T. 0.01 min

Lab File: BG019737.D

Acq: 21 Nov 2015 2:34

Tgt Ion:276 Resp: 443119

Ion Ratio Lower Upper

276 100

138 10.3 9.2 13.8

277 24.9 18.6 28.0

