

Data Path : Z:\HPCHEM1\BNA G\DATA\BG042116\
 Data File : BG021790.D
 Acq On : 20 Apr 2016 18:23
 Operator : UM/SJ
 Sample : H2413-10 5X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 B31-1(0-2)

Quant Time: Apr 21 03:11:00 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 13 15:48:13 2016
 Response via : Initial Calibration

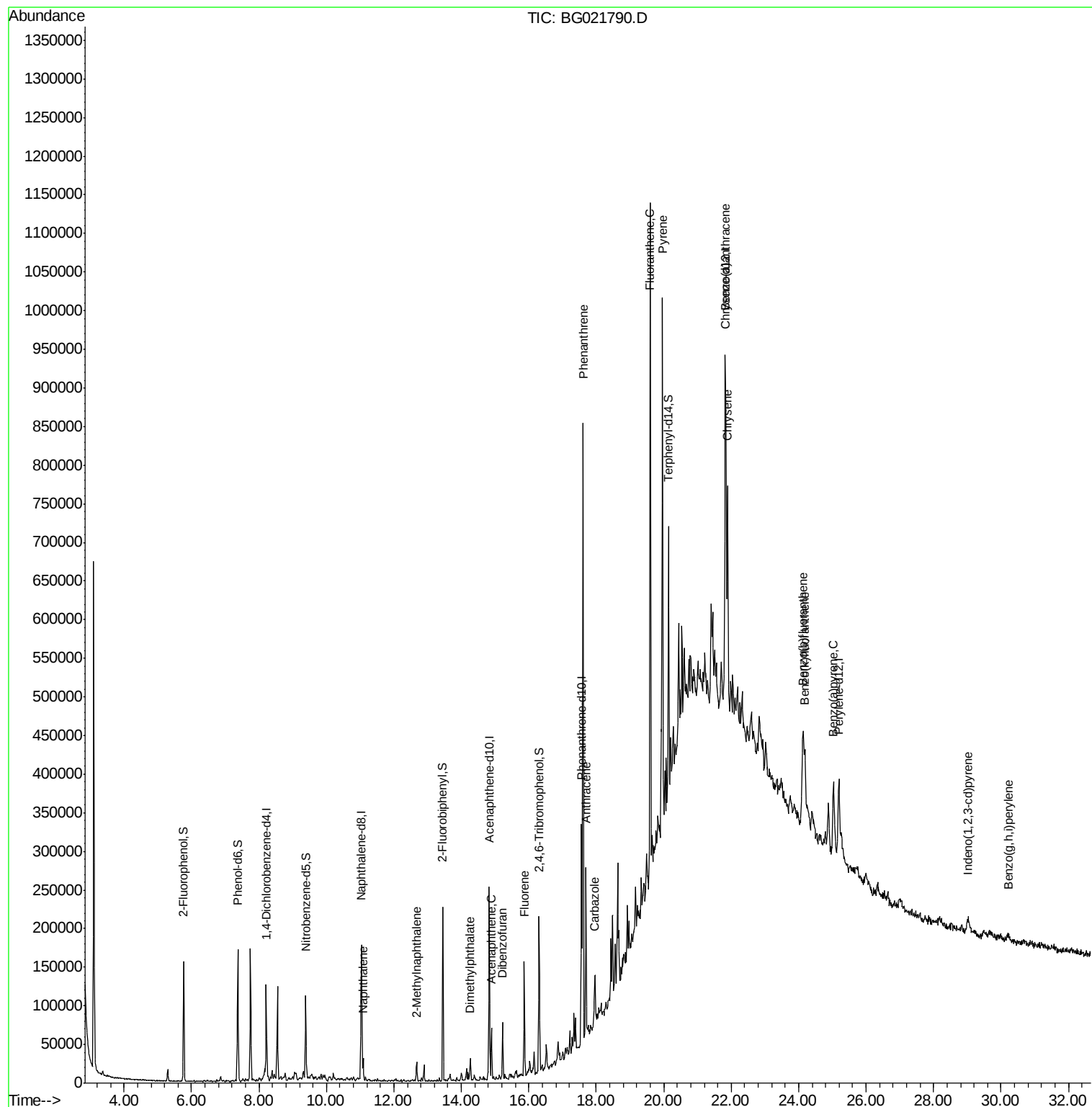
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.21	152	36189	20.00	ng	0.00
21) Naphthalene-d8	11.03	136	151895	20.00	ng	0.00
38) Acenaphthene-d10	14.83	164	85183	20.00	ng	0.00
63) Phenanthrene-d10	17.56	188	175012	20.00	ng	0.00
75) Chrysene-d12	21.85	240	197038	20.00	ng	0.01
86) Perylene-d12	25.19	264	131798	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.77	112	72366	33.30	ng	0.01
7) Phenol-d6	7.37	99	106280	32.74	ng	0.01
23) Nitrobenzene-d5	9.38	82	67306	22.78	ng	0.00
41) 2,4,6-Tribromophenol	16.30	330	31025	33.79	ng	0.00
44) 2-Fluorobiphenyl	13.45	172	120045	20.65	ng	0.00
78) Terphenyl-d14	20.15	244	138366	17.52	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.09	128	24556	3.02	ng	97
37) 2-Methylnaphthalene	12.67	142	13335	2.39	ng	99
49) Dimethylphthalate	14.27	163	17804	2.42	ng	99
51) Acenaphthene	14.89	154	25275	4.51	ng	96
54) Dibenzofuran	15.22	168	48206	6.30	ng	98
57) Fluorene	15.87	166	71862	10.51	ng	97
70) Phenanthrene	17.61	178	501316	51.97	ng	97
71) Anthracene	17.70	178	144460	14.75	ng	99
72) Carbazole	17.96	167	38802	4.25	ng	97
74) Fluoranthene	19.60	202	559940	48.61	ng	98
77) Pyrene	19.97	202	452732	39.85	ng	99
80) Benzo(a)anthracene	21.82	228	273290	24.10	ng	96
82) Chrysene	21.89	228	231478m	21.25	ng	
85) Indeno(1,2,3-cd)pyrene	29.01	276	33764	2.61	ng	# 69
87) Benzo(b)fluoranthene	24.13	252	172039	22.50	ng	# 93
88) Benzo(k)fluoranthene	24.18	252	124896m	16.70	ng	
89) Benzo(a)pyrene	25.03	252	132925	17.94	ng	# 88
91) Benzo(g,h,i)perylene	30.21	276	23526	3.23	ng	95

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.21 min Scan# 915

Delta R.T. -0.01 min

Lab File: BG021790.D

Acq: 20 Apr 2016 18:23

Instrument :

BNA_G

ClientSampleId :

B31-1(0-2)

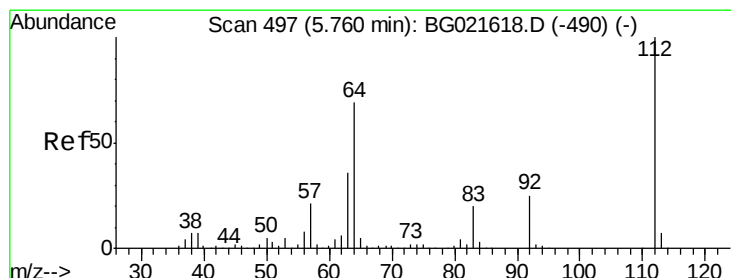
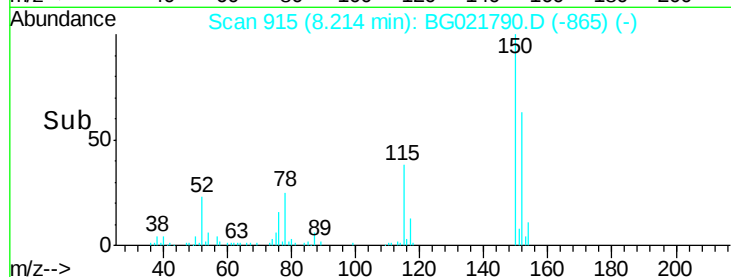
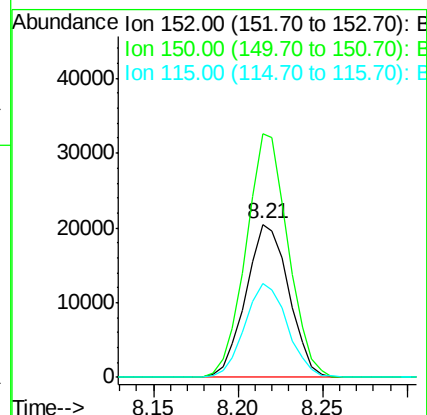
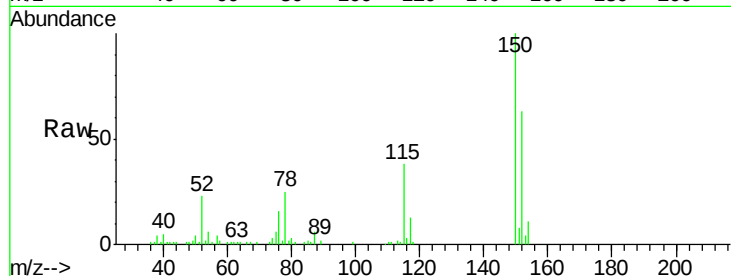
Tot Ion:152 Resp: 36189

Ion Ratio Lower Upper

152 100

150 159.3 130.1 195.1

115 61.0 62.2 93.2#



#5

2-Fluorophenol

Concen: 33.30 ng

RT: 5.77 min Scan# 499

Delta R.T. 0.01 min

Lab File: BG021790.D

Acq: 20 Apr 2016 18:23

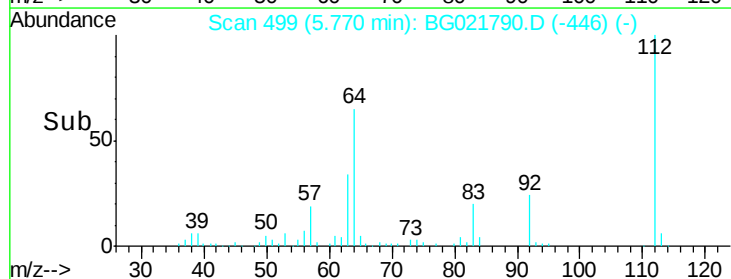
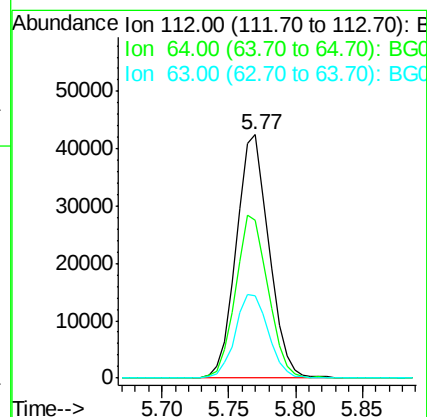
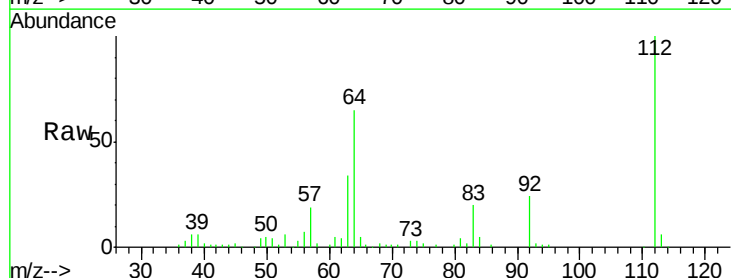
Tgt Ion:112 Resp: 72366

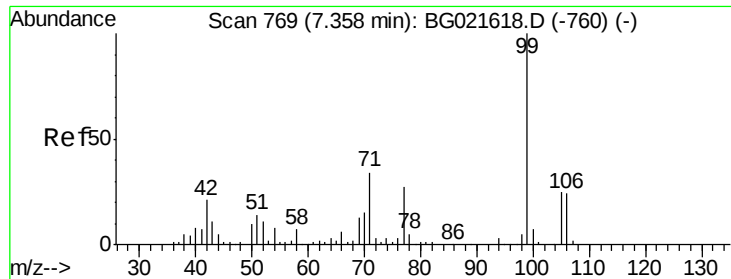
Ion Ratio Lower Upper

112 100

64 64.9 51.1 76.7

63 33.7 24.6 37.0





#7

Phenol-d6

Concen: 32.74 ng

RT: 7.37 min Scan# 771

Delta R.T. 0.01 min

Lab File: BG021790.D

Acq: 20 Apr 2016 18:23

Instrument :

BNA_G

ClientSampleId :

B31-1(0-2)

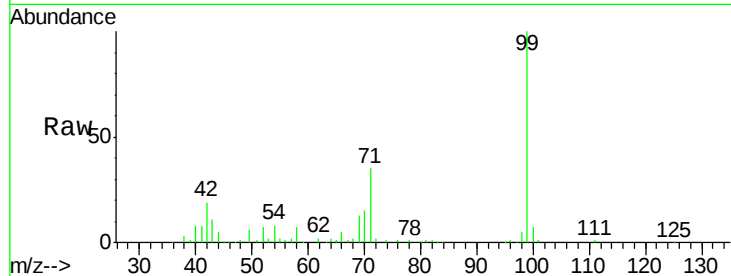
Tot Ion: 99 Resp: 106280

Ion Ratio Lower Upper

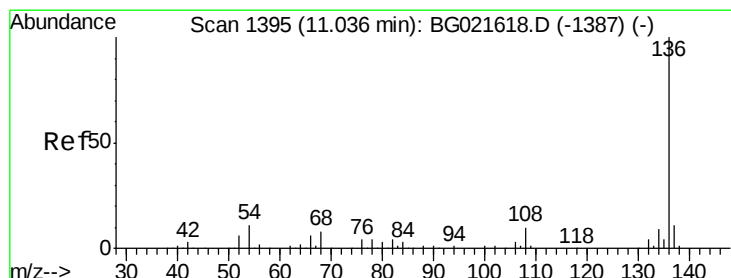
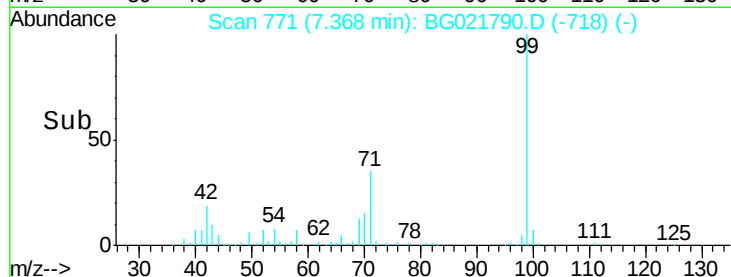
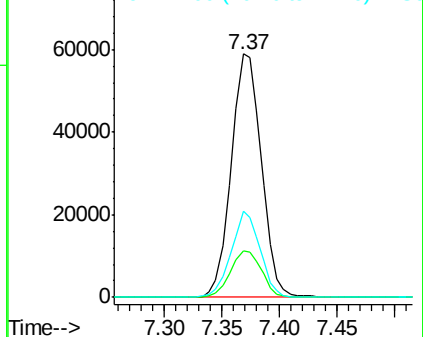
99 100

42 19.2 16.4 24.6

71 35.1 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: 11.03 min Scan# 1395

Delta R.T. -0.00 min

Lab File: BG021790.D

Acq: 20 Apr 2016 18:23

Tgt Ion: 136 Resp: 151895

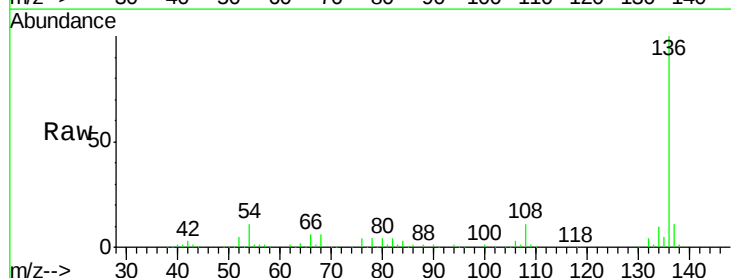
Ion Ratio Lower Upper

136 100

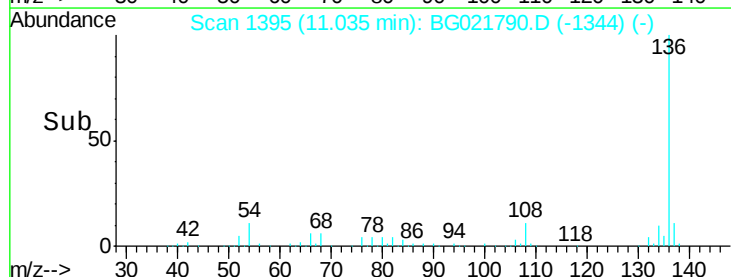
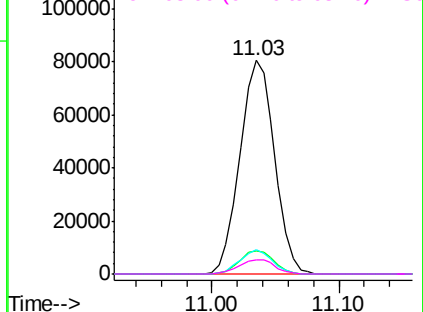
137 10.8 9.0 13.4

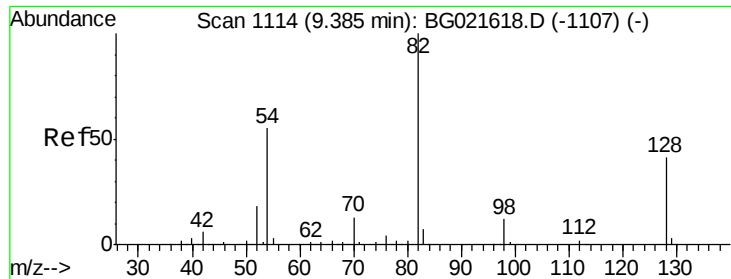
54 11.4 9.6 14.4

68 6.5 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

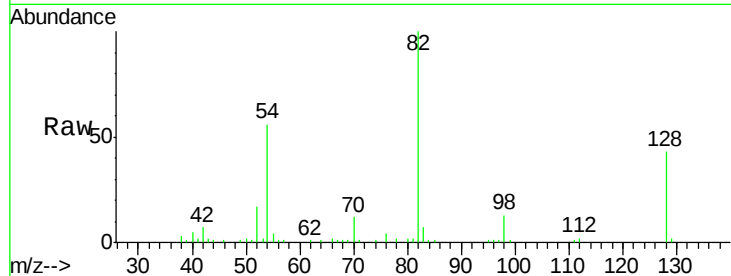




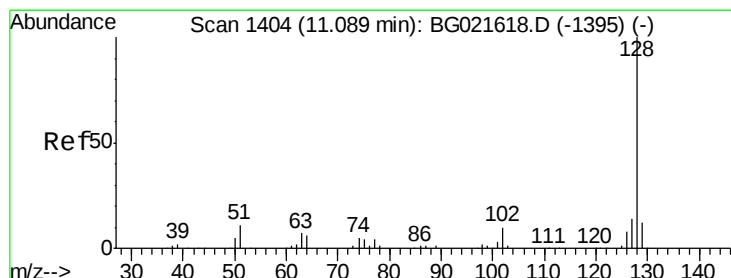
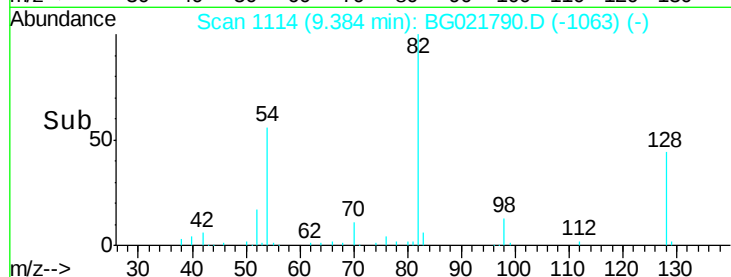
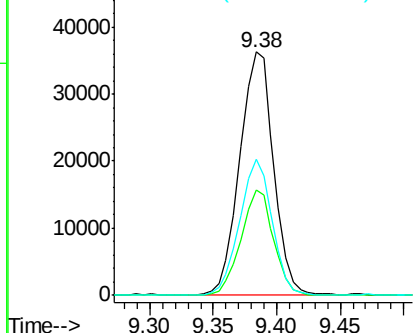
#23
Nitrobenzene-d5
Concen: 22.78 ng
RT: 9.38 min Scan# 1114
Delta R.T. -0.00 min
Lab File: BG021790.D
Acq: 20 Apr 2016 18:23

Instrument :
BNA_G
ClientSampleId :
B31-1(0-2)

Tot Ion	82	Resp	67306
Ion Ratio	100	Lower	Upper
128	43.4	33.4	50.0
54	56.0	46.1	69.1

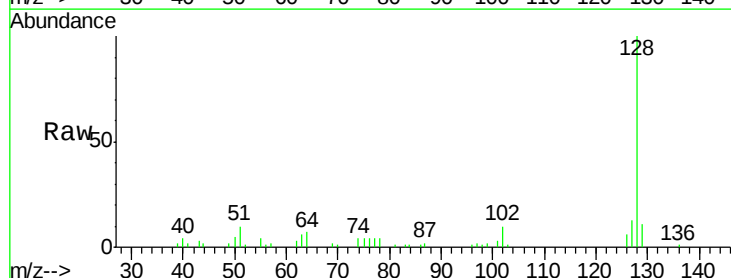


Abundance Ion 82.00 (81.70 to 82.70): BGC
Ion 128.00 (127.70 to 128.70): BGC
Ion 54.00 (53.70 to 54.70): BGC

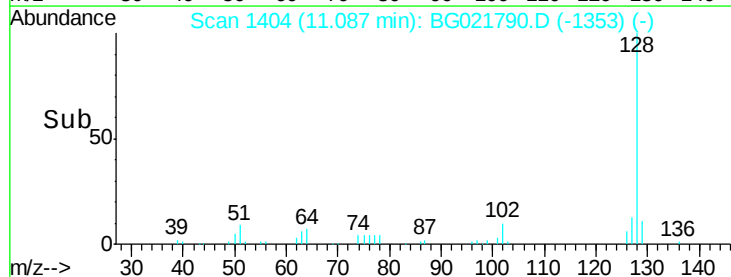
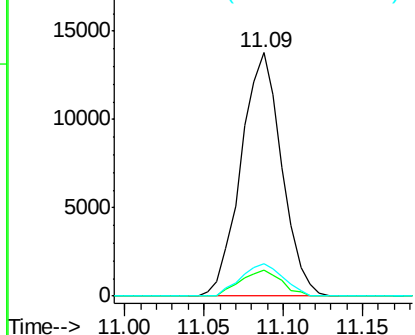


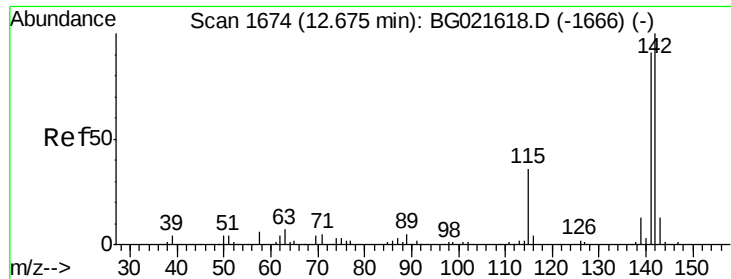
#31
Naphthalene
Concen: 3.02 ng
RT: 11.09 min Scan# 1404
Delta R.T. -0.00 min
Lab File: BG021790.D
Acq: 20 Apr 2016 18:23

Tgt Ion	128	Resp	24556
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
129	10.6	7.0	10.6
127	13.3	10.1	15.1



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

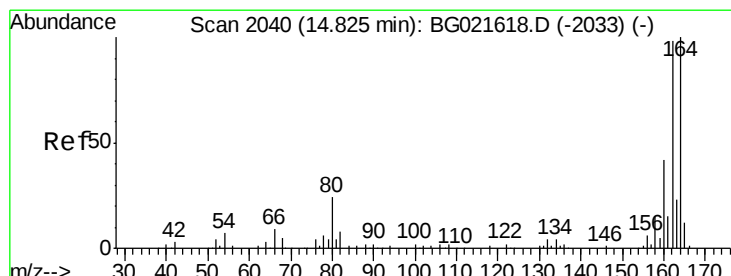
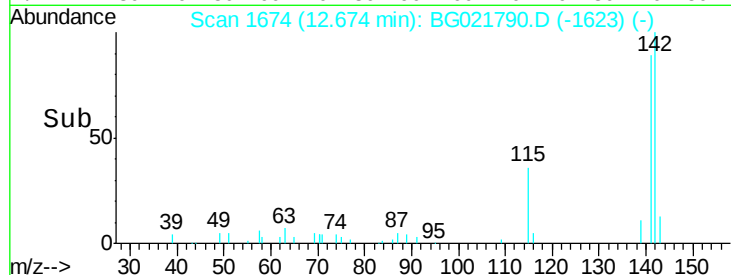
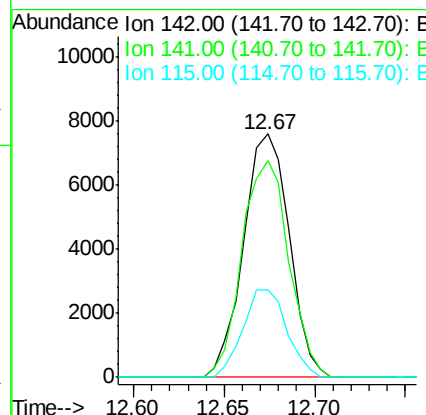
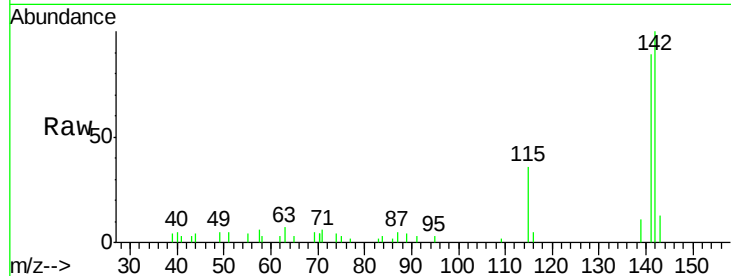




#37
 2-Methylnaphthalene
 Concen: 2.39 ng
 RT: 12.67 min Scan# 1674
 Delta R.T. -0.00 min
 Lab File: BG021790.D
 Acq: 20 Apr 2016 18:23

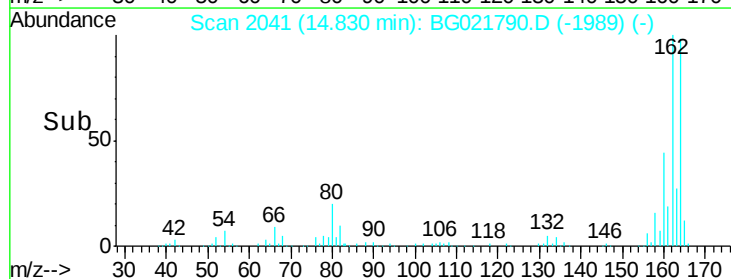
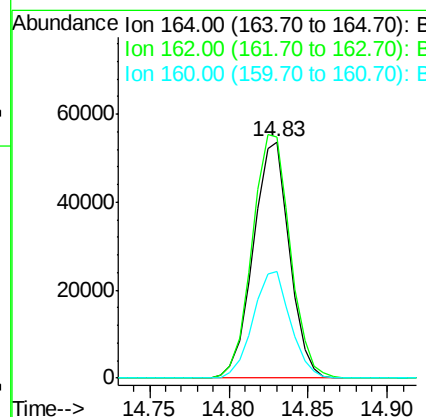
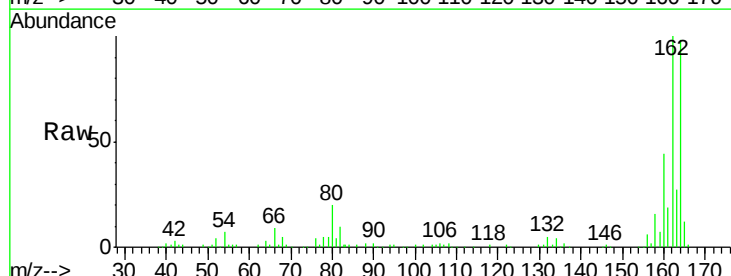
Instrument :
 BNA_G
 ClientSampleId :
 B31-1(0-2)

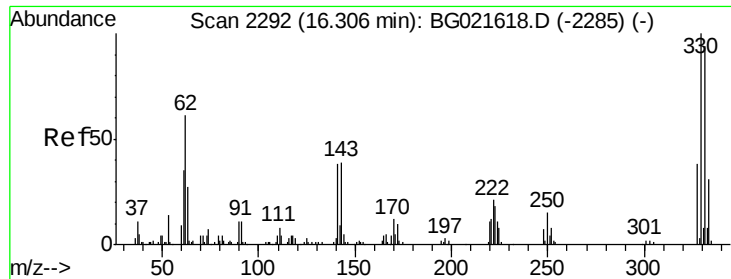
Tot Ion:142 Resp: 13335
 Ion Ratio Lower Upper
 142 100
 141 89.2 71.4 107.0
 115 35.9 27.4 41.2



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 14.83 min Scan# 2041
 Delta R.T. 0.00 min
 Lab File: BG021790.D
 Acq: 20 Apr 2016 18:23

Tgt Ion:164 Resp: 85183
 Ion Ratio Lower Upper
 164 100
 162 102.2 78.0 117.0
 160 45.4 32.9 49.3





#41

2,4,6-Tribromophenol

Concen: 33.79 ng

RT: 16.30 min Scan# 2292

Delta R.T. -0.00 min

Lab File: BG021790.D

Acq: 20 Apr 2016 18:23

Instrument :

BNA_G

ClientSampleId :

B31-1(0-2)

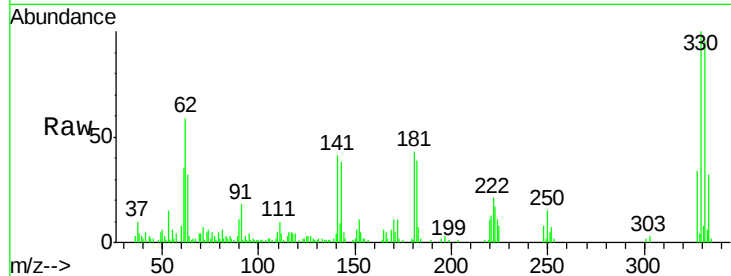
Tot Ion:330 Resp: 31025

Ion Ratio Lower Upper

330 100

332 95.4 78.0 117.0

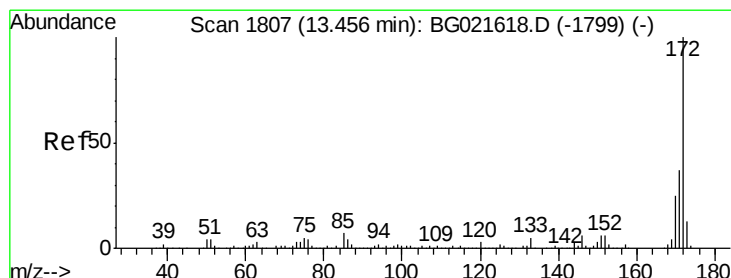
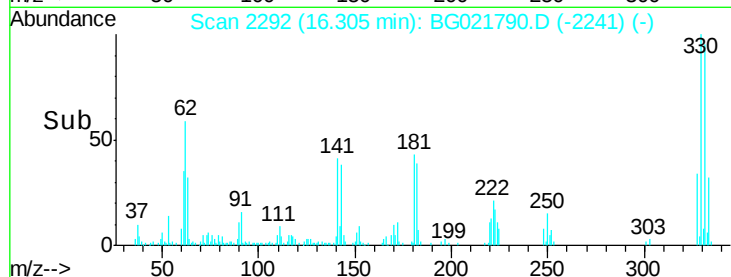
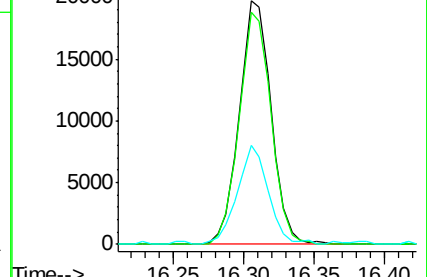
141 39.6 33.8 50.8



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: 20.65 ng

RT: 13.45 min Scan# 1806

Delta R.T. -0.01 min

Lab File: BG021790.D

Acq: 20 Apr 2016 18:23

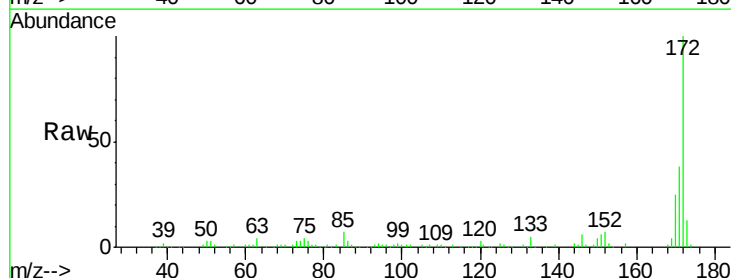
Tgt Ion:172 Resp: 120045

Ion Ratio Lower Upper

172 100

171 37.6 27.8 41.6

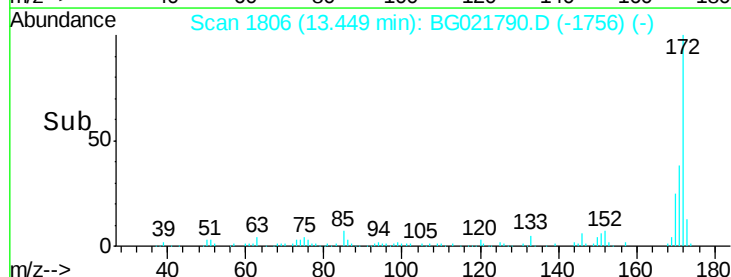
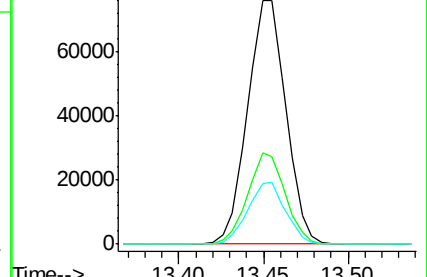
170 25.0 19.6 29.4

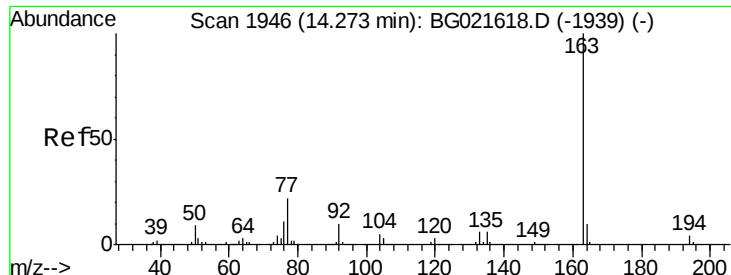


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#49

Dimethylphthalate

Concen: 2.42 ng

RT: 14.27 min Scan# 1945

Delta R.T. -0.01 min

Lab File: BG021790.D

Acq: 20 Apr 2016 18:23

Instrument :

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ClientSampleId :

B31-1(0-2)

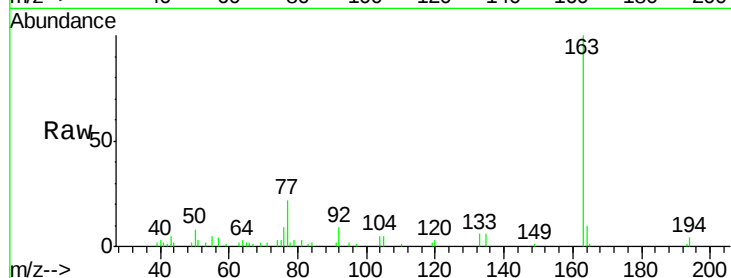
Tot Ion:163 Resp: 17804

Ion Ratio Lower Upper

163 100

194 4.2 3.0 4.6

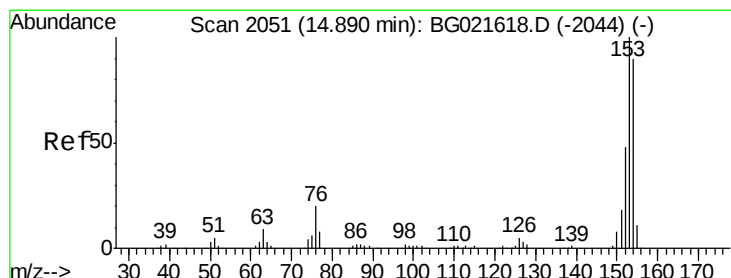
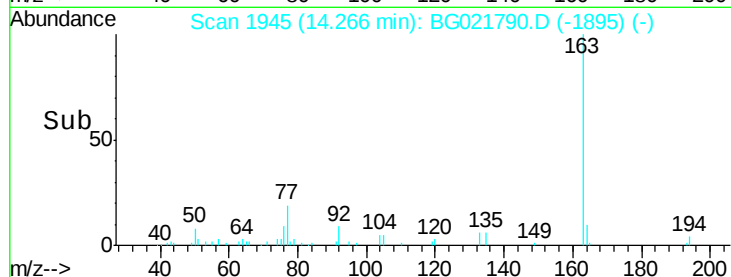
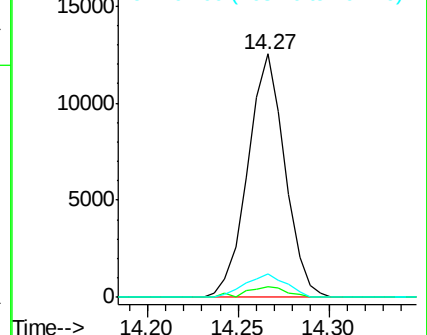
164 9.8 8.1 12.1



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



#51

Acenaphthene

Concen: 4.51 ng

RT: 14.89 min Scan# 2051

Delta R.T. -0.00 min

Lab File: BG021790.D

Acq: 20 Apr 2016 18:23

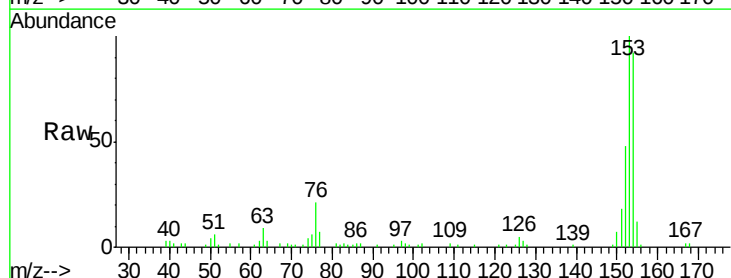
Tgt Ion:154 Resp: 25275

Ion Ratio Lower Upper

154 100

153 108.1 91.9 137.9

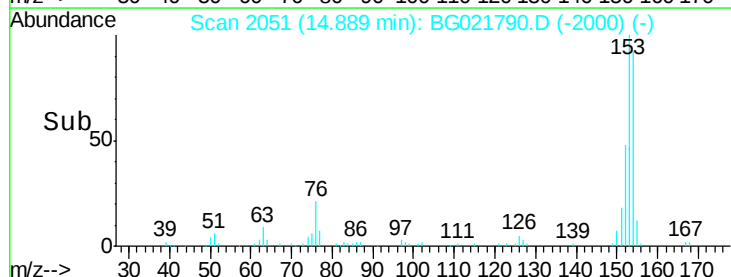
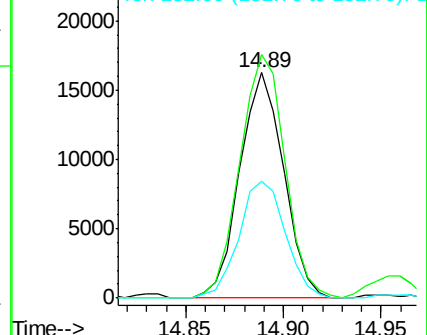
152 52.1 42.0 63.0

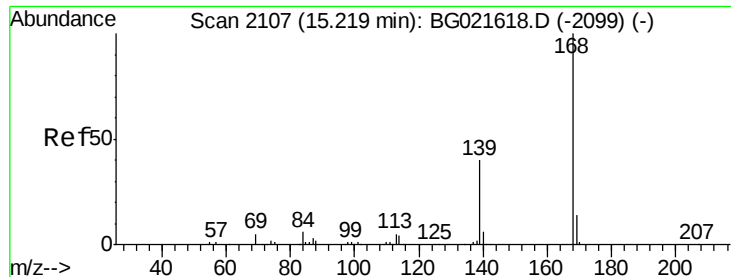


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#54

Dibenzofuran

Concen: 6.30 ng

RT: 15.22 min Scan# 2108

Delta R.T. 0.00 min

Lab File: BG021790.D

Acq: 20 Apr 2016 18:23

Instrument :

BNA_G

ClientSampleId :

B31-1(0-2)

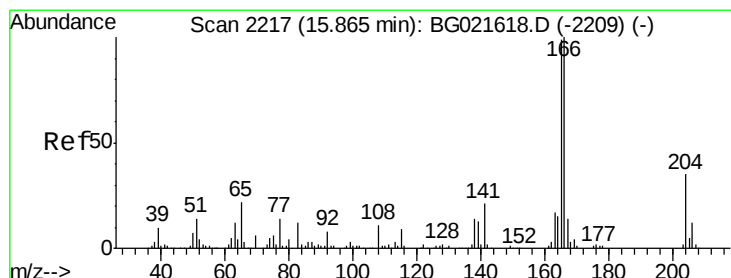
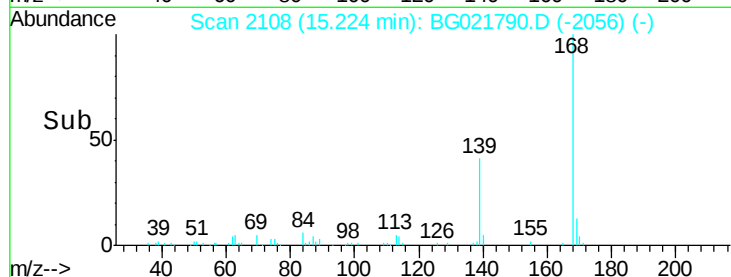
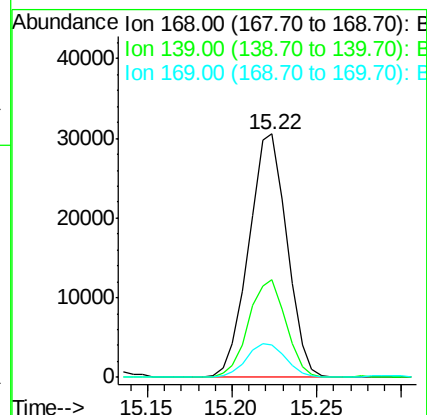
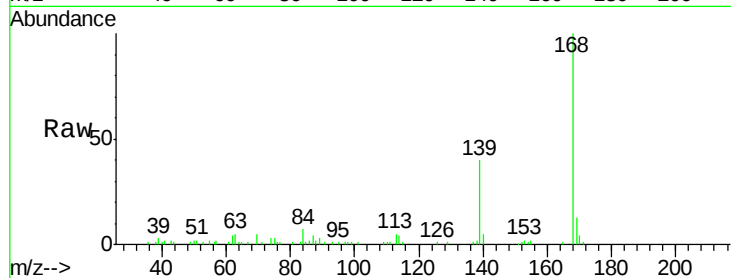
Tot Ion:168 Resp: 48206

Ion Ratio Lower Upper

168 100

139 40.3 31.1 46.7

169 13.4 11.0 16.6



#57

Fluorene

Concen: 10.51 ng

RT: 15.87 min Scan# 2218

Delta R.T. 0.00 min

Lab File: BG021790.D

Acq: 20 Apr 2016 18:23

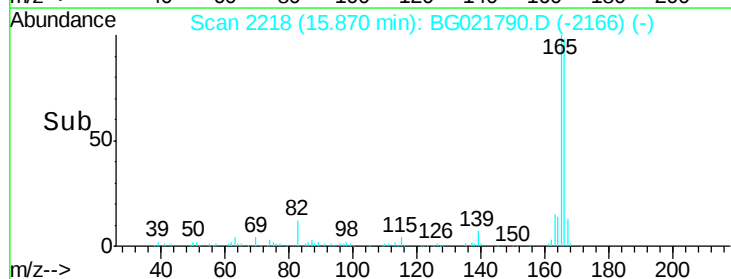
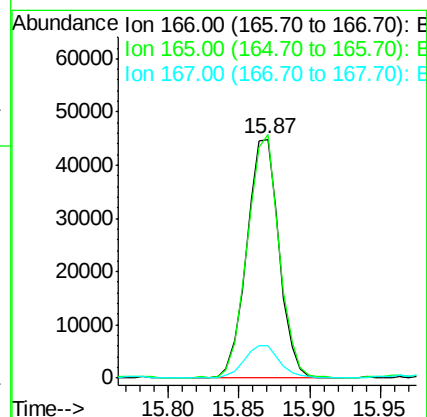
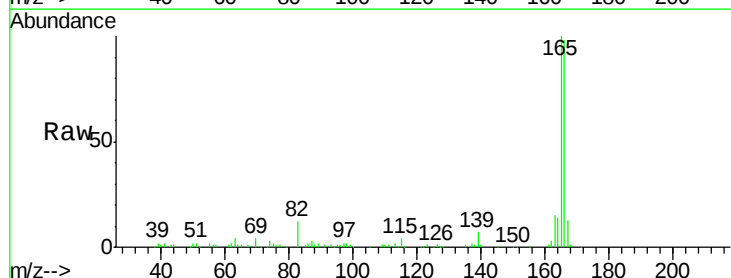
Tgt Ion:166 Resp: 71862

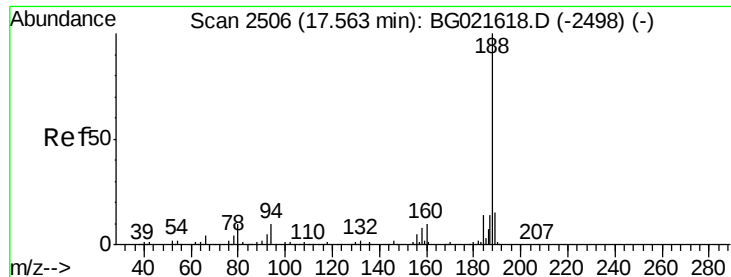
Ion Ratio Lower Upper

166 100

165 101.9 79.0 118.4

167 13.6 10.7 16.1

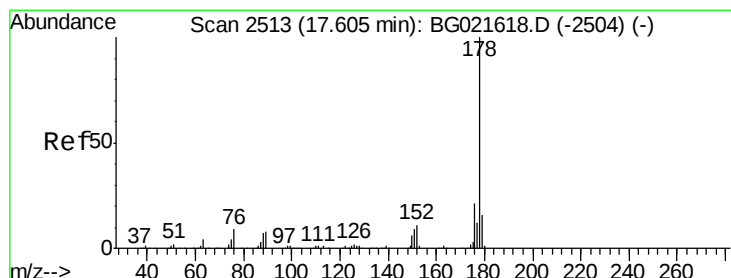
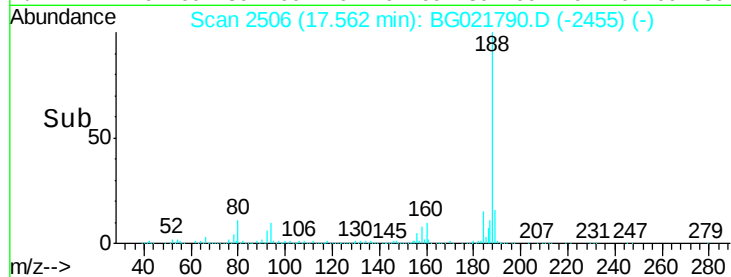
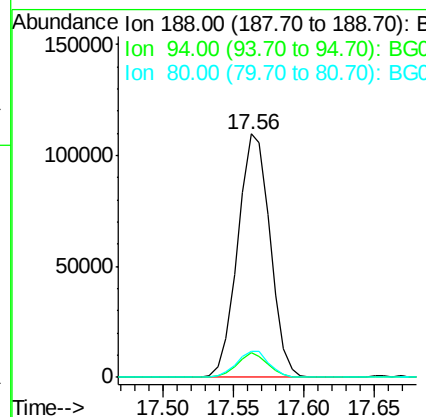
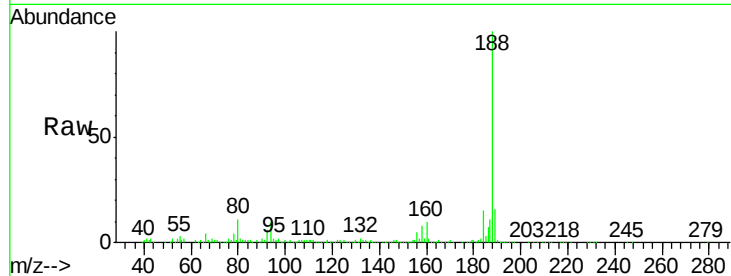




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.56 min Scan# 2506
Delta R.T. -0.00 min
Lab File: BG021790.D
Acq: 20 Apr 2016 18:23

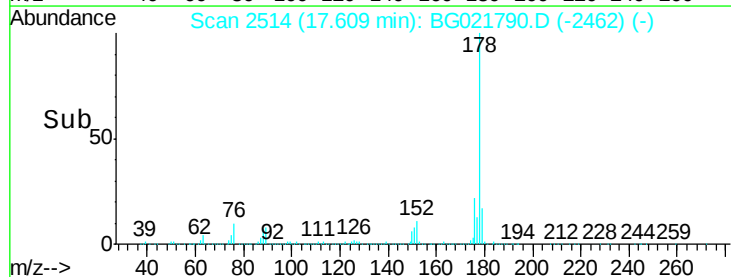
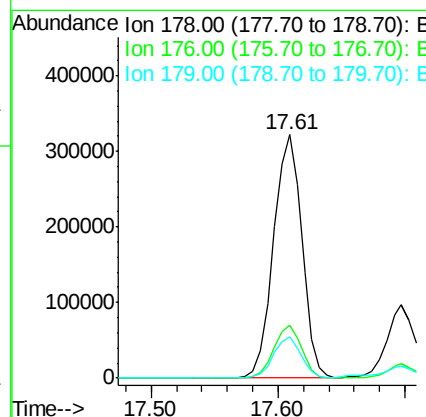
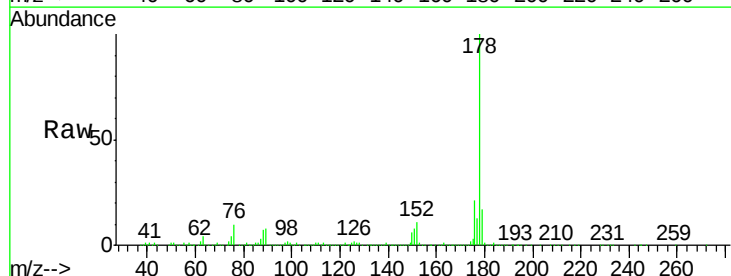
Instrument :
BNA_G
ClientSampleId :
B31-1(0-2)

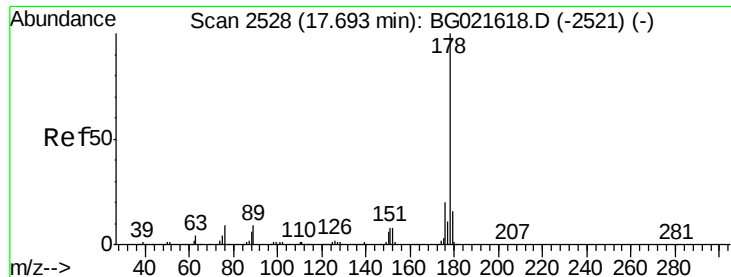
Tot Ion:188 Resp: 175012
Ion Ratio Lower Upper
188 100
94 10.2 7.5 11.3
80 10.6 8.6 13.0



#70
Phenanthrene
Concen: 51.97 ng
RT: 17.61 min Scan# 2514
Delta R.T. 0.00 min
Lab File: BG021790.D
Acq: 20 Apr 2016 18:23

Tgt Ion:178 Resp: 501316
Ion Ratio Lower Upper
178 100
176 21.5 16.2 24.4
179 16.8 12.0 18.0

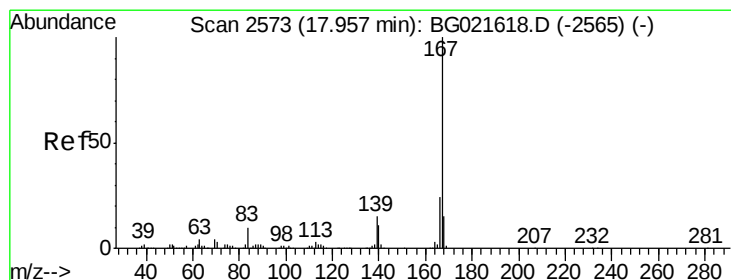
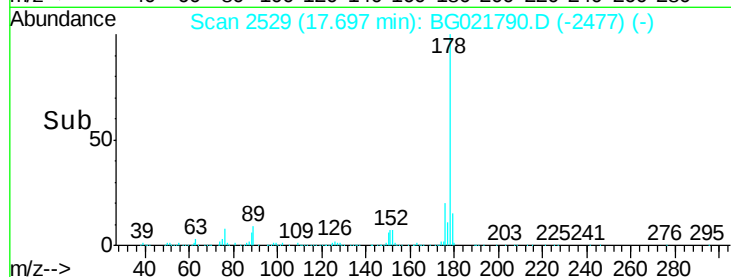
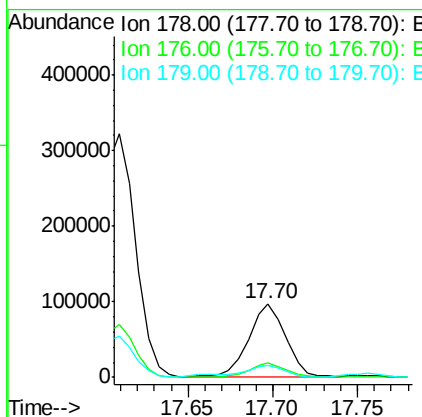
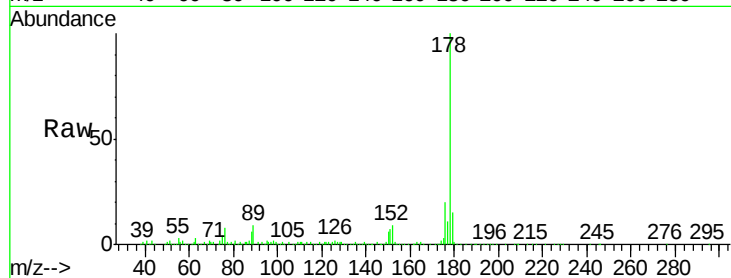




#71
 Anthracene
 Concen: 14.75 ng
 RT: 17.70 min Scan# 2529
 Delta R.T. 0.00 min
 Lab File: BG021790.D
 Acq: 20 Apr 2016 18:23

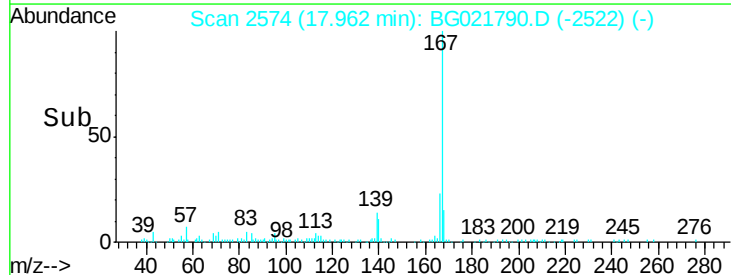
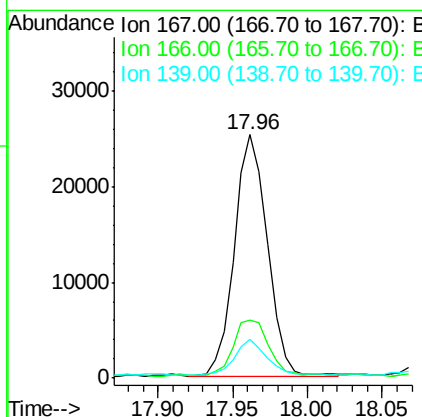
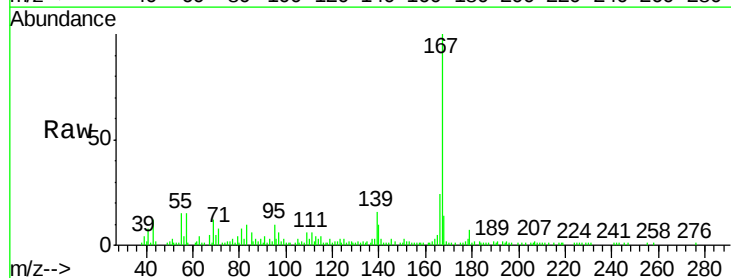
Instrument :
 BNA_G
 ClientSampleId :
 B31-1(0-2)

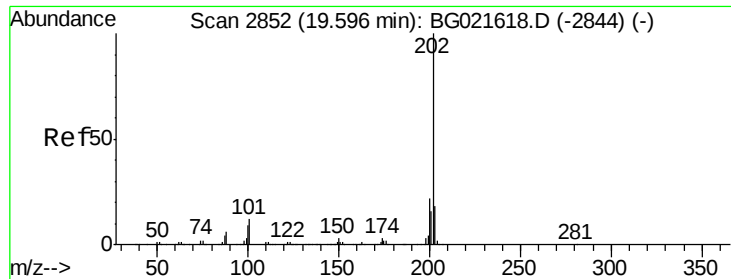
Tot Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.0	22.4
179	15.4	12.2	18.4



#72
 Carbazole
 Concen: 4.25 ng
 RT: 17.96 min Scan# 2574
 Delta R.T. 0.00 min
 Lab File: BG021790.D
 Acq: 20 Apr 2016 18:23

Tgt Ion	Ratio	Lower	Upper
167	100		
166	23.9	18.6	27.8
139	15.8	10.6	15.8





#74

Fluoranthene

Concen: 48.61 ng

RT: 19.60 min Scan# 2853

Delta R.T. 0.00 min

Lab File: BG021790.D

Acq: 20 Apr 2016 18:23

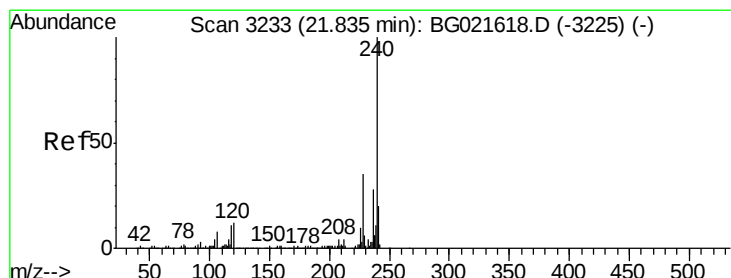
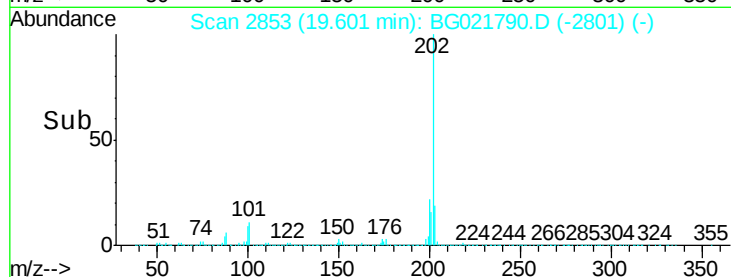
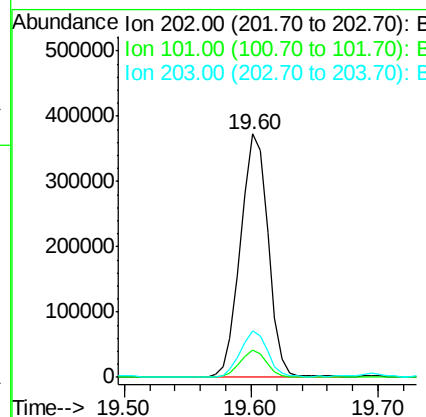
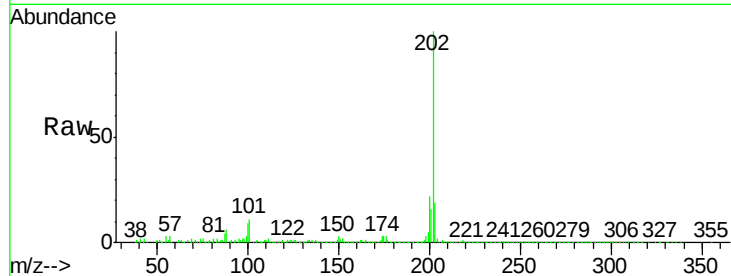
Instrument :

BNA_G

ClientSampleId :

B31-1(0-2)

Tot Ion:	202	Resp:	559940
Ion	Ratio	Lower	Upper
202	100		
101	11.0	0.0	31.0
203	19.1	0.0	37.9



#75

Chrysene-d12

Concen: 20.00 ng

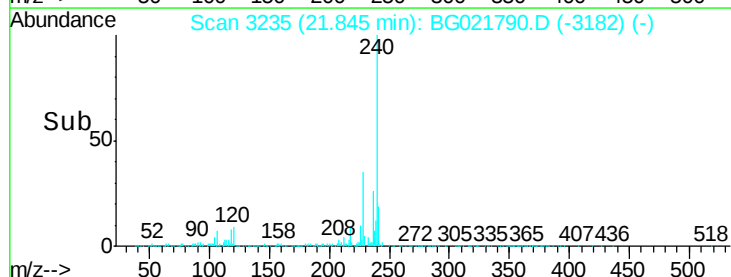
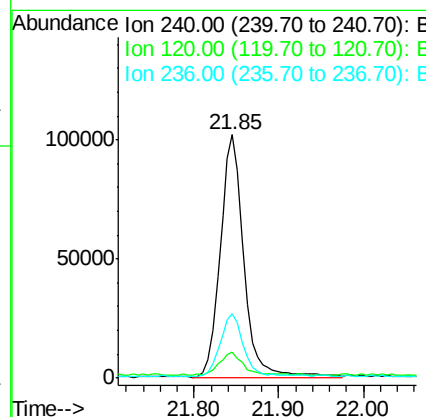
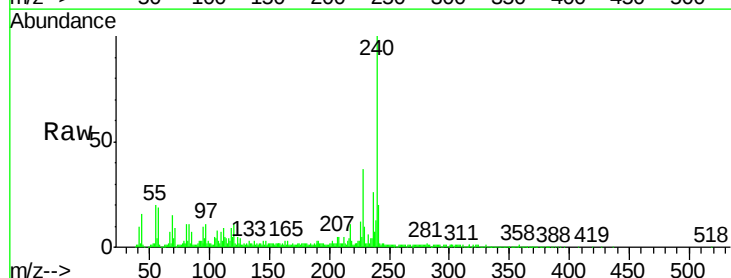
RT: 21.85 min Scan# 3235

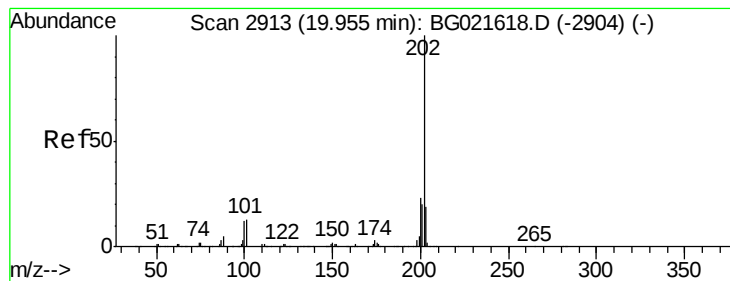
Delta R.T. 0.01 min

Lab File: BG021790.D

Acq: 20 Apr 2016 18:23

Tgt Ion:	240	Resp:	197038
Ion	Ratio	Lower	Upper
240	100		
120	10.7	8.4	12.6
236	26.2	19.6	29.4





#77

Pvrene

Concen: 39.85 ng

RT: 19.97 min Scan# 2915

Delta R.T. 0.01 min

Lab File: BG021790.D

Acq: 20 Apr 2016 18:23

Instrument :

BNA_G

ClientSampleId :

B31-1(0-2)

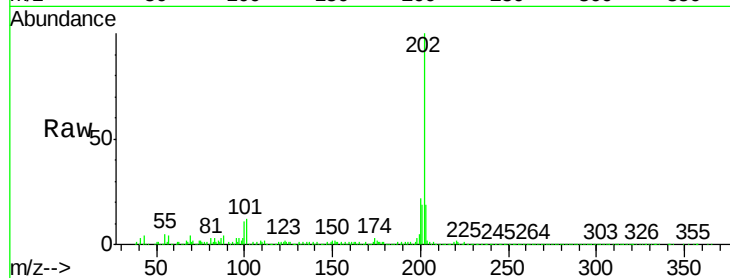
Tot Ion:202 Resp: 452732

Ion Ratio Lower Upper

202 100

200 22.1 18.2 27.2

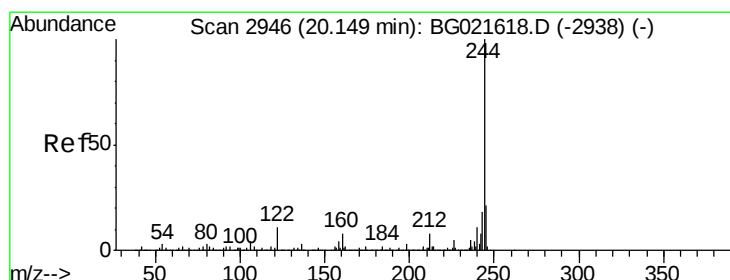
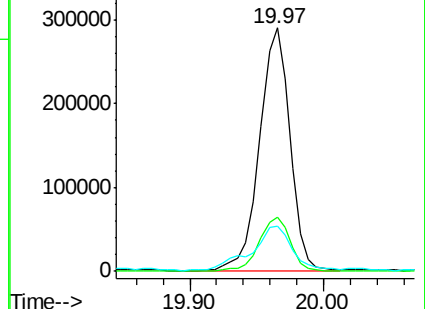
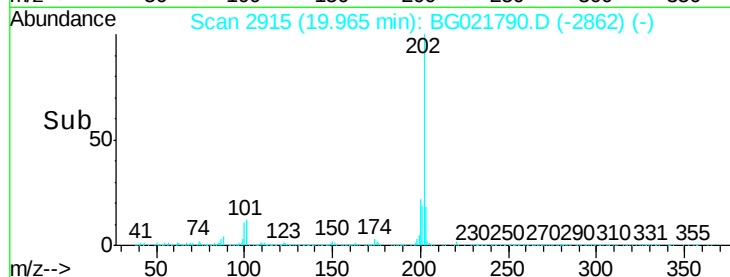
203 18.6 15.0 22.4



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: 17.52 ng

RT: 20.15 min Scan# 2946

Delta R.T. -0.00 min

Lab File: BG021790.D

Acq: 20 Apr 2016 18:23

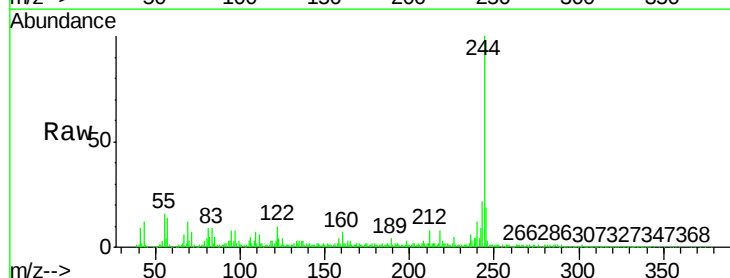
Tgt Ion:244 Resp: 138366

Ion Ratio Lower Upper

244 100

212 7.6 6.5 9.7

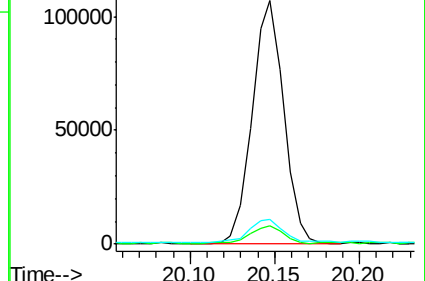
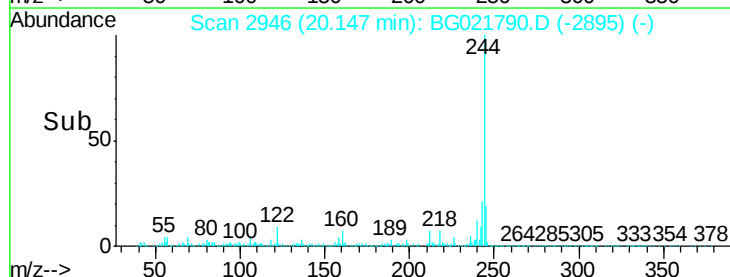
122 10.1 8.6 12.8

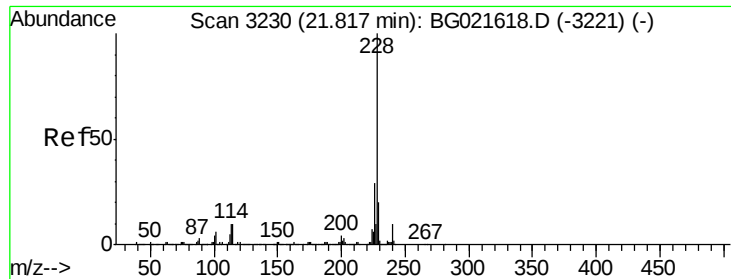


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 24.10 ng

RT: 21.82 min Scan# 3231

Delta R.T. 0.00 min

Lab File: BG021790.D

Acq: 20 Apr 2016 18:23

Instrument :

BNA_G

ClientSampleId :

B31-1(0-2)

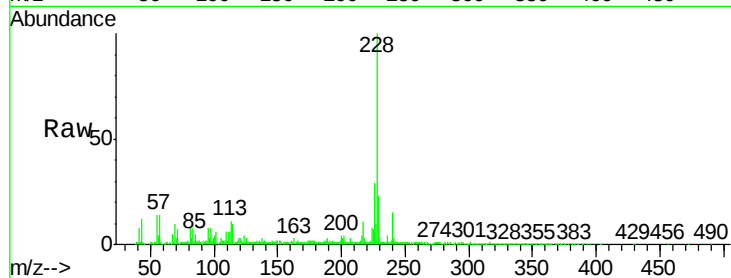
Tot Ion:228 Resp: 273290

Ion Ratio Lower Upper

228 100

226 29.5 22.6 34.0

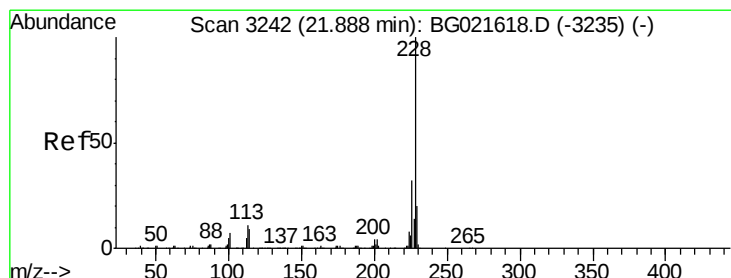
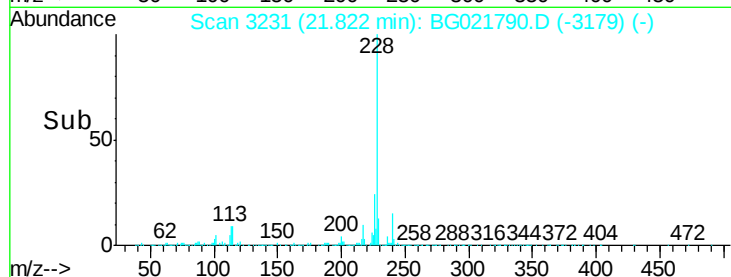
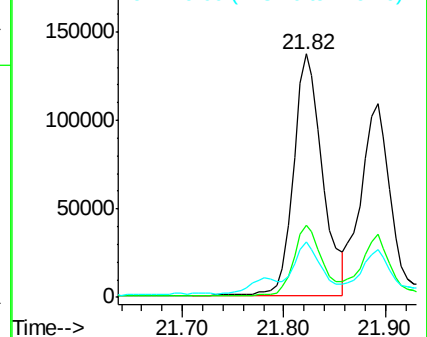
229 22.6 16.1 24.1



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: 21.25 ng m

RT: 21.89 min Scan# 3243

Delta R.T. 0.00 min

Lab File: BG021790.D

Acq: 20 Apr 2016 18:23

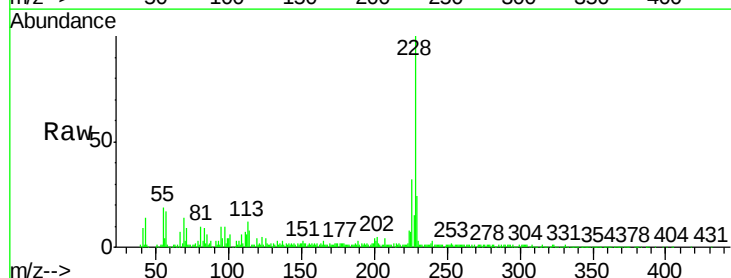
Tgt Ion:228 Resp: 231478

Ion Ratio Lower Upper

228 100

226 32.3 25.4 38.0

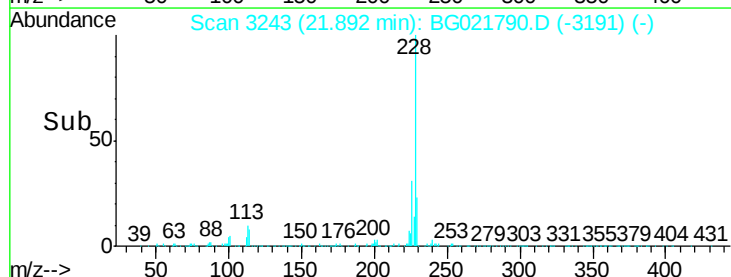
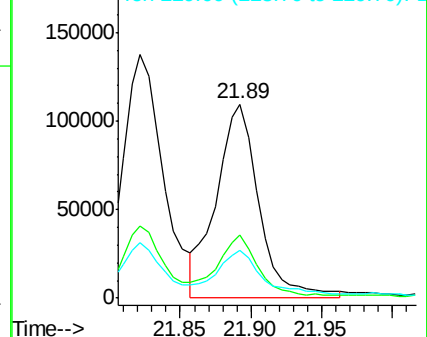
229 24.5 15.9 23.9#

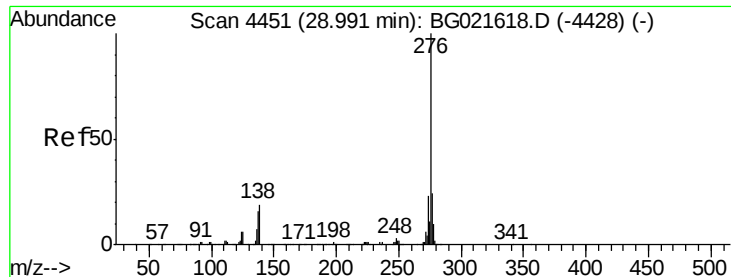


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#85

Indeno(1,2,3-cd)pyrene

Concen: 2.61 ng

RT: 29.01 min Scan# 4455

Delta R.T. 0.02 min

Lab File: BG021790.D

Acq: 20 Apr 2016 18:23

Instrument :

BNA_G

ClientSampleId :

B31-1(0-2)

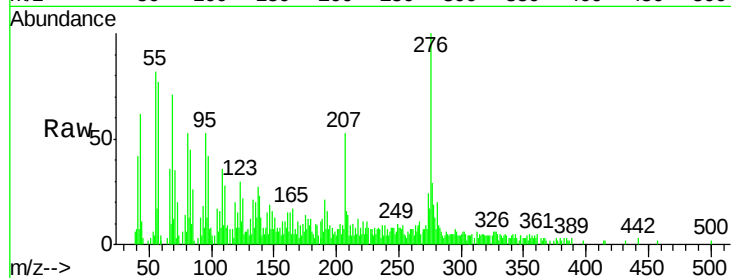
Tot Ion:276 Resp: 33764

Ion Ratio Lower Upper

276 100

138 16.9 14.0 21.0

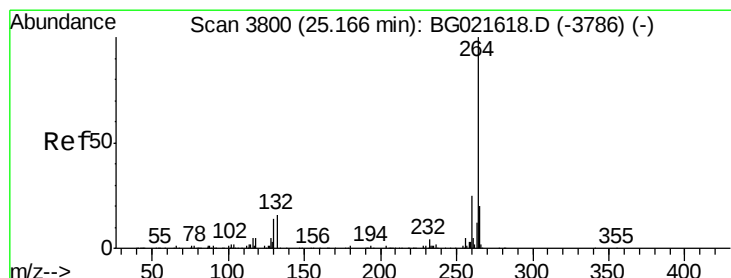
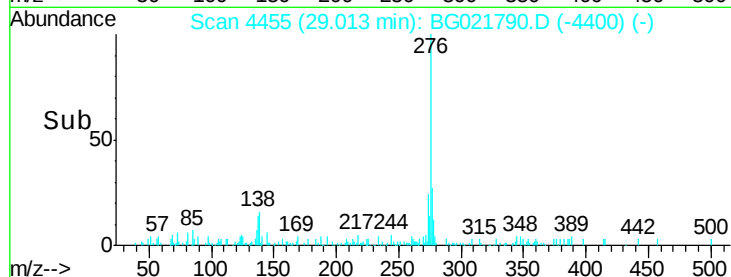
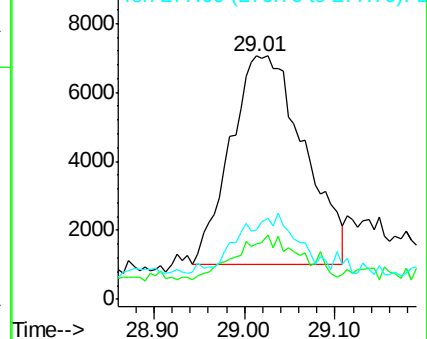
277 0.0 20.6 30.8#



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

Perylene-d12

Concen: 20.00 ng

RT: 25.19 min Scan# 3804

Delta R.T. 0.02 min

Lab File: BG021790.D

Acq: 20 Apr 2016 18:23

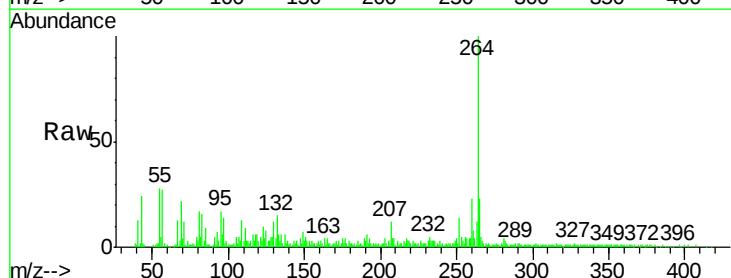
Tgt Ion:264 Resp: 131798

Ion Ratio Lower Upper

264 100

260 22.9 20.2 30.4

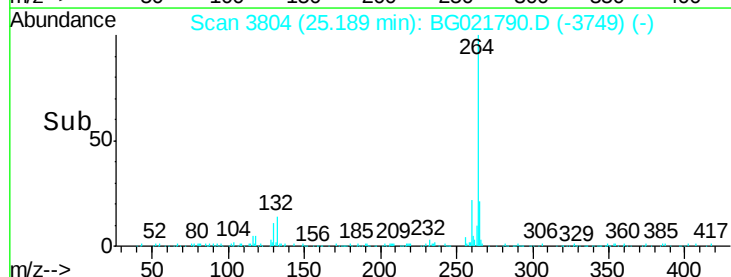
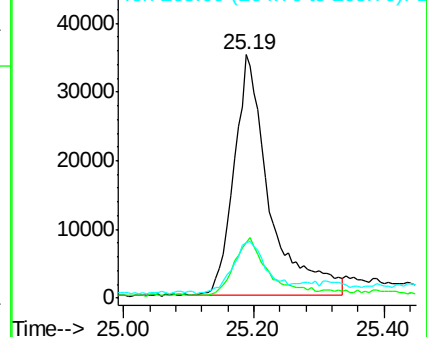
265 22.8 17.8 26.8

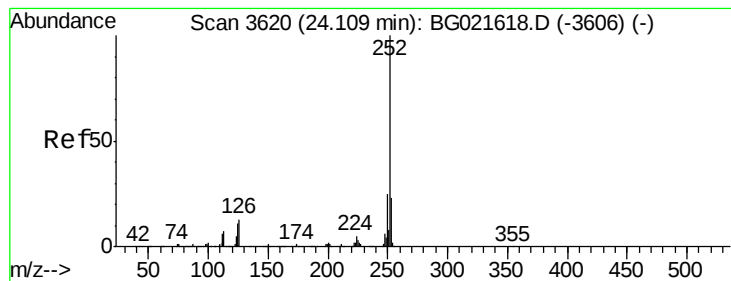


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 22.50 ng

RT: 24.13 min Scan# 3624

Delta R.T. 0.02 min

Lab File: BG021790.D

Acq: 20 Apr 2016 18:23

Instrument :

BNA_G

ClientSampleId :

B31-1(0-2)

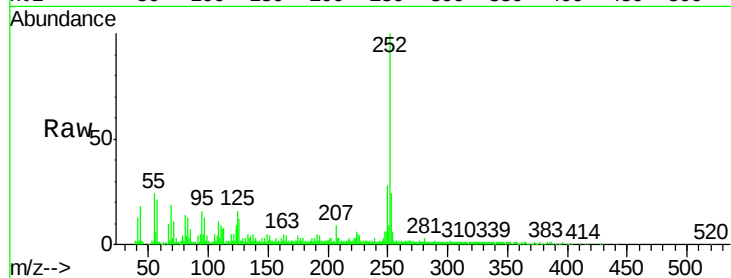
Tot Ion:252 Resp: 172039

Ion Ratio Lower Upper

252 100

253 23.8 17.5 26.3

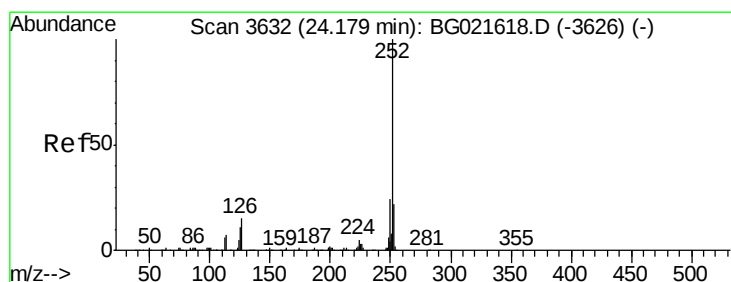
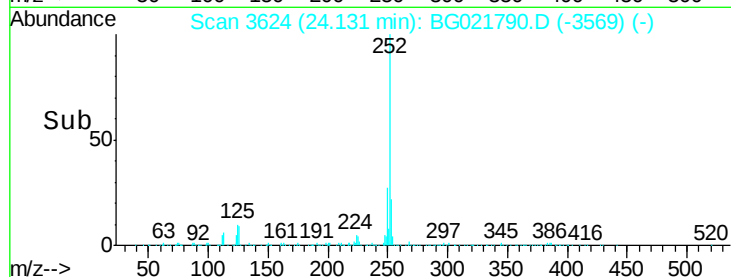
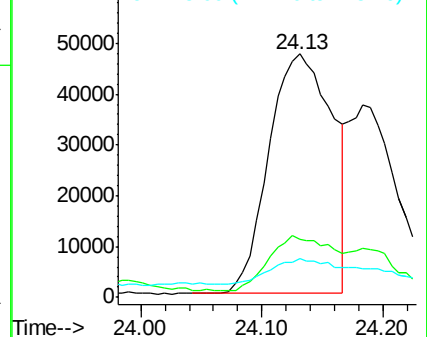
125 15.9 8.6 13.0#



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: 16.70 ng m

RT: 24.18 min Scan# 3633

Delta R.T. 0.00 min

Lab File: BG021790.D

Acq: 20 Apr 2016 18:23

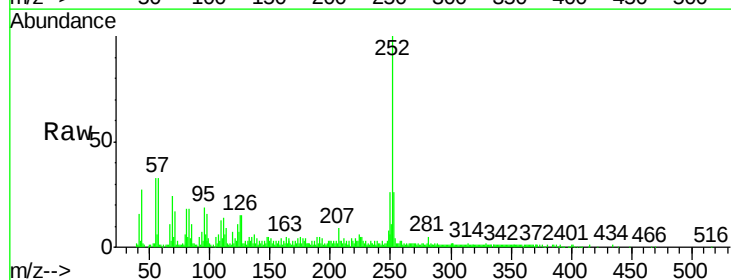
Tgt Ion:252 Resp: 124896

Ion Ratio Lower Upper

252 100

253 25.6 17.8 26.8

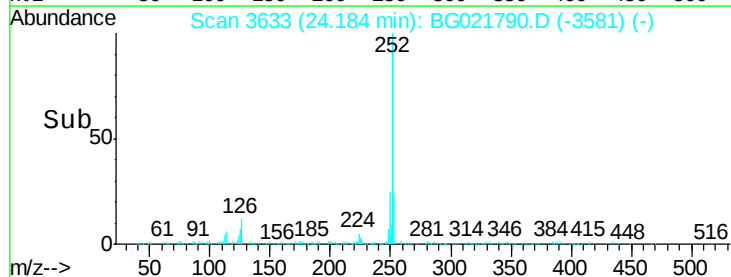
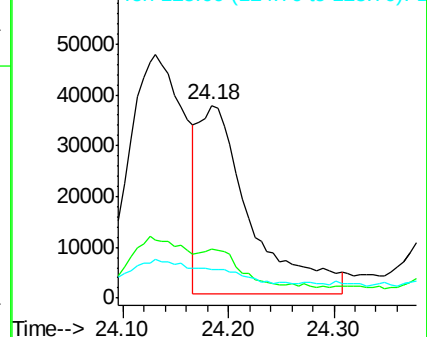
125 15.0 8.3 12.5#

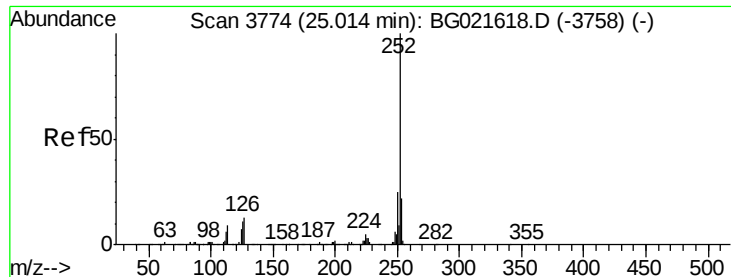


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 17.94 ng

RT: 25.03 min Scan# 3777

Delta R.T. 0.02 min

Lab File: BG021790.D

Acq: 20 Apr 2016 18:23

Instrument :

BNA_G

ClientSampleId :

B31-1(0-2)

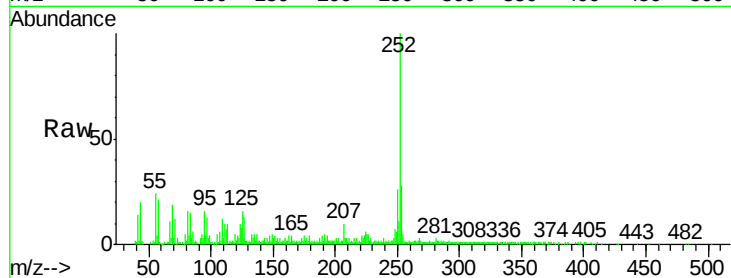
Tot Ion:252 Resp: 132925

Ion Ratio Lower Upper

252 100

253 27.6 17.1 25.7#

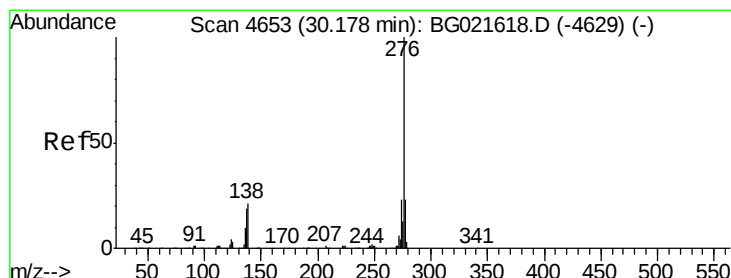
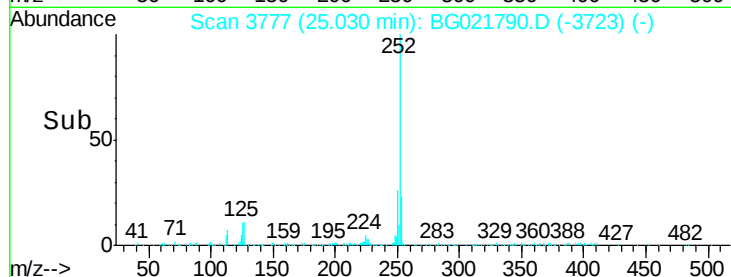
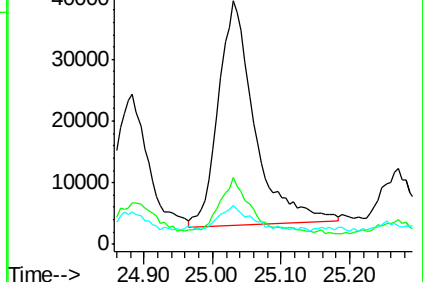
125 15.8 9.6 14.4#



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(g,h,i)perylene

Concen: 3.23 ng

RT: 30.21 min Scan# 4659

Delta R.T. 0.03 min

Lab File: BG021790.D

Acq: 20 Apr 2016 18:23

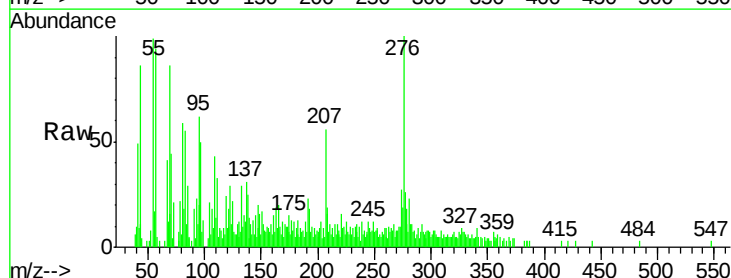
Tgt Ion:276 Resp: 23526

Ion Ratio Lower Upper

276 100

277 25.7 19.4 29.2

138 25.2 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

