

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121215\
 Data File : BG020105.D
 Acq On : 11 Dec 2015 11:37
 Operator : UM/SJ
 Sample : G4683-09DL 2X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 S21-15DL

Quant Time: Dec 11 16:12:05 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG120215.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 02 18:50:01 2015
 Response via : Initial Calibration

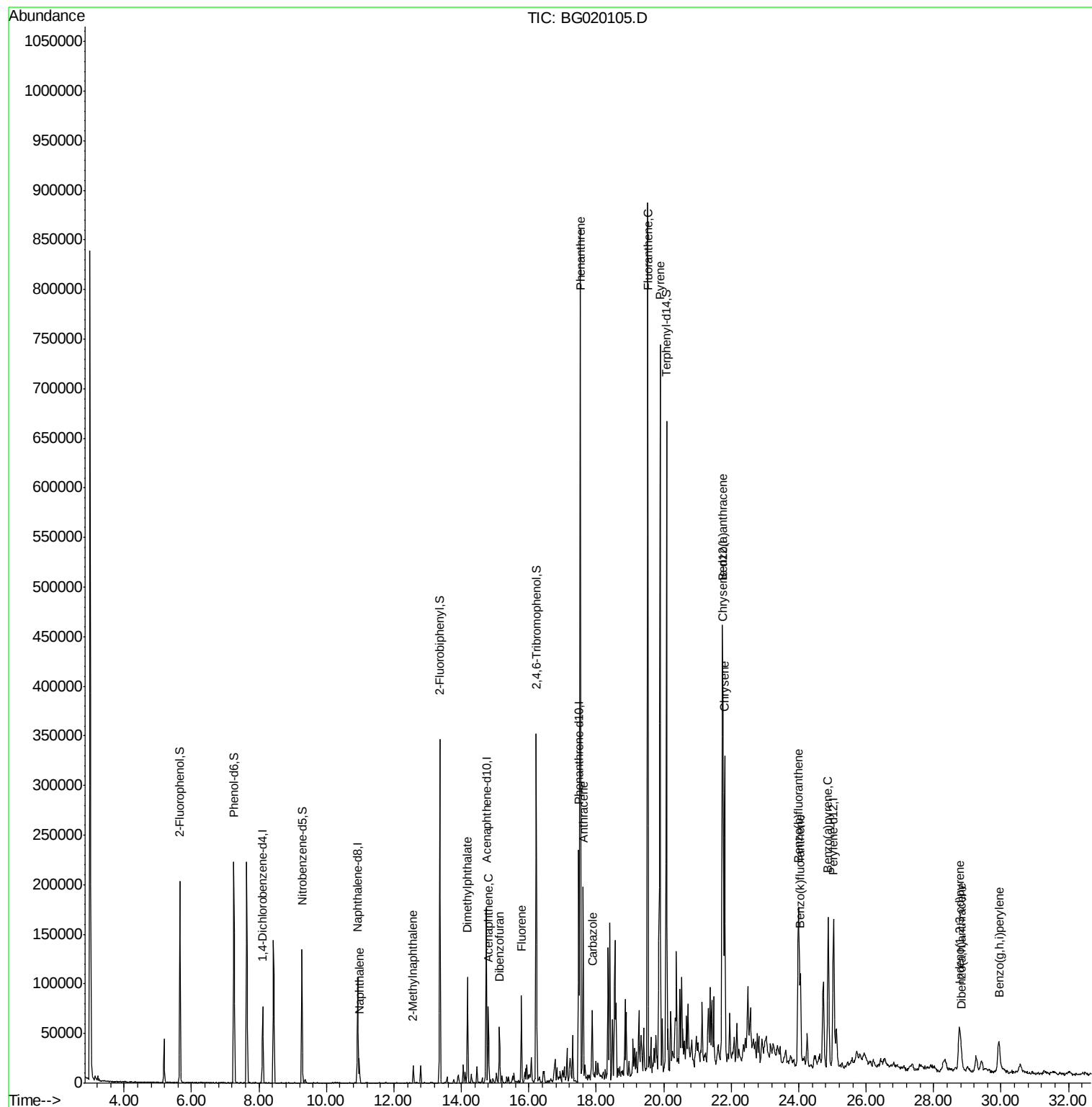
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.11	152	21162	20.00	ng	-0.03
21) Naphthalene-d8	10.93	136	91560	20.00	ng	-0.02
38) Acenaphthene-d10	14.74	164	61193	20.00	ng	-0.03
63) Phenanthrene-d10	17.48	188	145588	20.00	ng	-0.03
75) Chrysene-d12	21.76	240	179010	20.00	ng	-0.04
86) Perylene-d12	25.03	264	168109	20.00	ng	-0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.66	112	87836	75.02	ng	-0.01
7) Phenol-d6	7.26	99	130577	73.86	ng	-0.02
23) Nitrobenzene-d5	9.28	82	86075	47.98	ng	-0.02
41) 2,4,6-Tribromophenol	16.22	330	62776	67.05	ng	-0.02
44) 2-Fluorobiphenyl	13.36	172	177558	39.62	ng	-0.03
78) Terphenyl-d14	20.08	244	297706	40.57	ng	-0.03
Target Compounds						Qvalue
31) Naphthalene	10.98	128	21652	4.41	ng	98
37) 2-Methylnaphthalene	12.57	142	8788m	2.44	ng	
49) Dimethylphthalate	14.18	163	68578	12.46	ng	97
51) Acenaphthene	14.80	154	28376	7.09	ng	96
54) Dibenzofuran	15.13	168	32655	5.49	ng	94
57) Fluorene	15.78	166	38885	7.30	ng	96
70) Phenanthrene	17.53	178	541428	65.73	ng	97
71) Anthracene	17.61	178	124822	14.88	ng	96
72) Carbazole	17.88	167	42610	5.76	ng	97
74) Fluoranthene	19.53	202	559603	53.11	ng	93
77) Pyrene	19.89	202	483092	45.87	ng	96
80) Benzo(a)anthracene	21.73	228	245726	22.42	ng	98
82) Chrysene	21.80	228	221241	21.26	ng	96
85) Indeno(1,2,3-cd)pyrene	28.78	276	84028	7.33	ng	# 100
87) Benzo(b)fluoranthene	23.99	252	213598m	20.05	ng	
88) Benzo(k)fluoranthene	24.05	252	79889m	7.57	ng	
89) Benzo(a)pyrene	24.88	252	167685m	16.58	ng	
90) Dibenzo(a,h)anthracene	28.84	278	24367	2.44	ng	# 91
91) Benzo(a,h,i)perylene	29.94	276	73964	7.54	ng	# 89

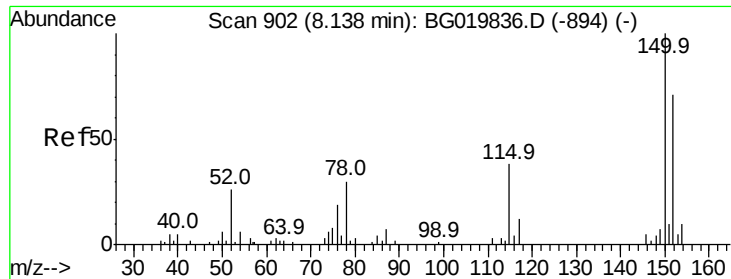
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.11 min Scan# 897

Delta R.T. -0.03 min

Lab File: BG020105.D

Acq: 11 Dec 2015 11:37

Instrument :

BNA_G

ClientSampleId :

S21-15DL

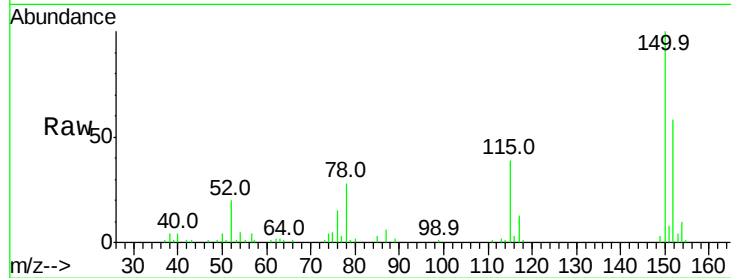
Tot Ion:152 Resp: 21162

Ion Ratio Lower Upper

152 100

150 172.6 115.0 172.4#

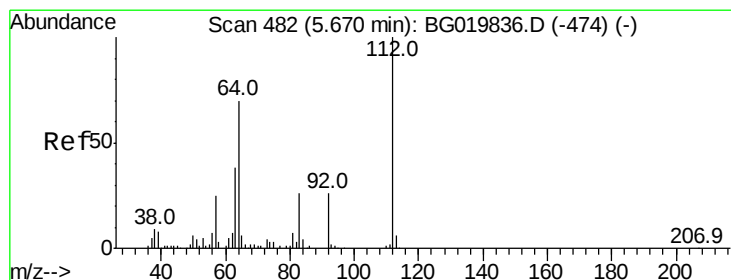
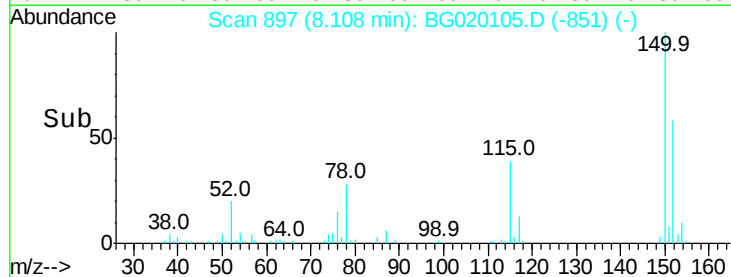
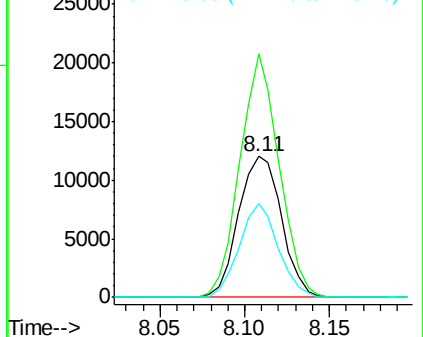
115 66.9 43.9 65.9#



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: 75.02 ng

RT: 5.66 min Scan# 480

Delta R.T. -0.01 min

Lab File: BG020105.D

Acq: 11 Dec 2015 11:37

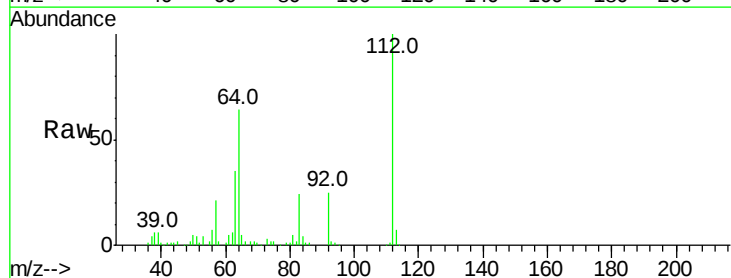
Tgt Ion:112 Resp: 87836

Ion Ratio Lower Upper

112 100

64 64.3 43.7 65.5

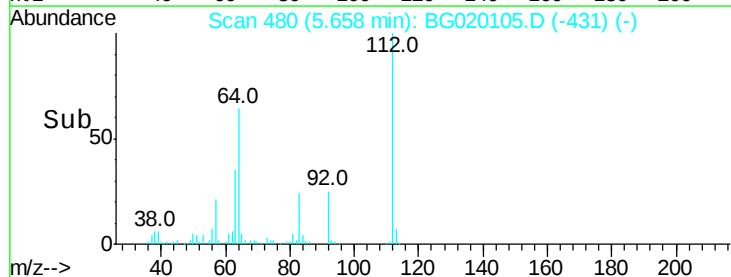
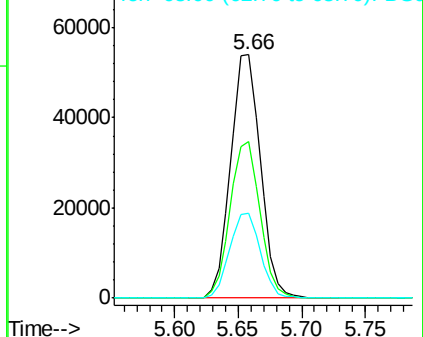
63 35.1 24.0 36.0



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG0

Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 73.86 ng

RT: 7.26 min Scan# 752

Delta R.T. -0.02 min

Lab File: BG020105.D

Acq: 11 Dec 2015 11:37

Instrument :

BNA_G

ClientSampleId :

S21-15DL

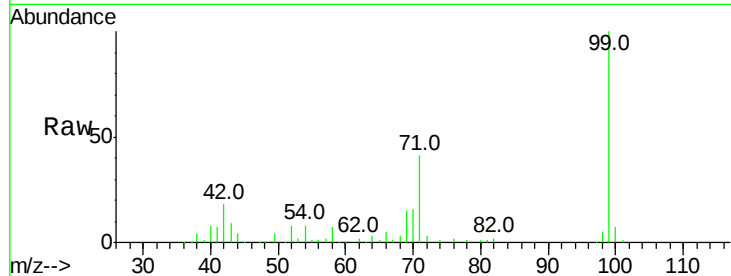
Tot Ion: 99 Resp: 130577

Ion Ratio Lower Upper

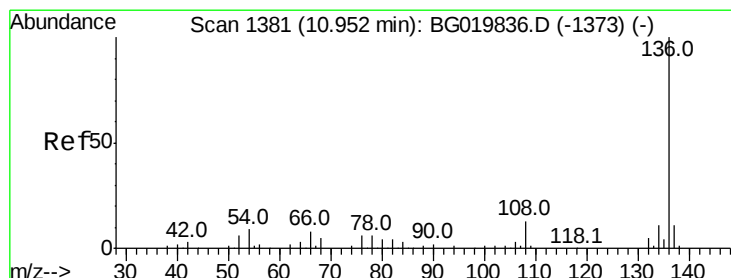
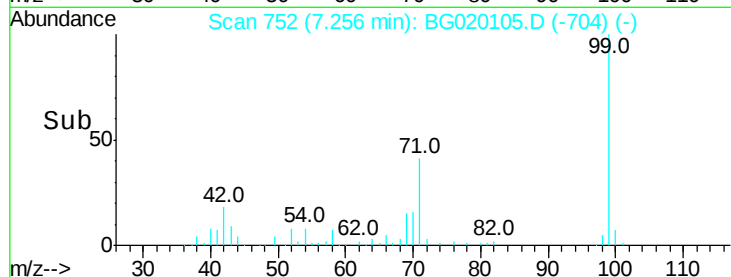
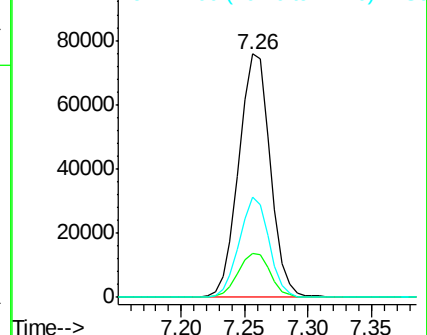
99 100

42 18.2 11.5 17.3#

71 41.1 22.6 34.0#



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: 10.93 min Scan# 1377

Delta R.T. -0.02 min

Lab File: BG020105.D

Acq: 11 Dec 2015 11:37

Tgt Ion: 136 Resp: 91560

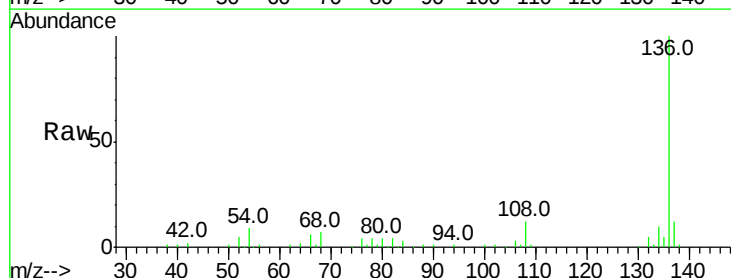
Ion Ratio Lower Upper

136 100

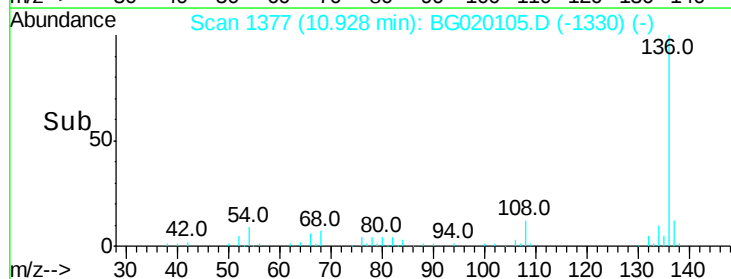
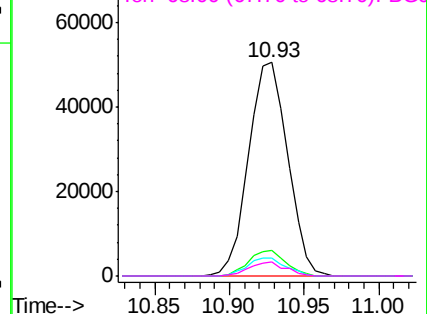
137 11.8 8.6 12.8

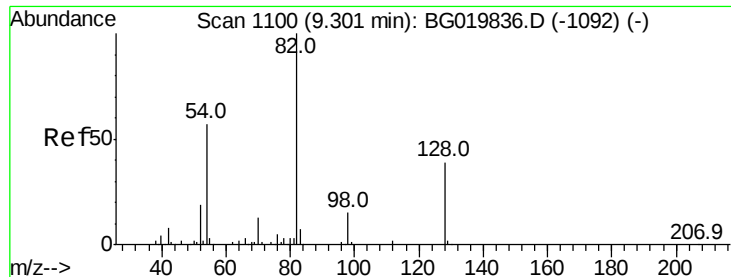
54 8.6 5.4 8.2#

68 6.6 5.3 7.9



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

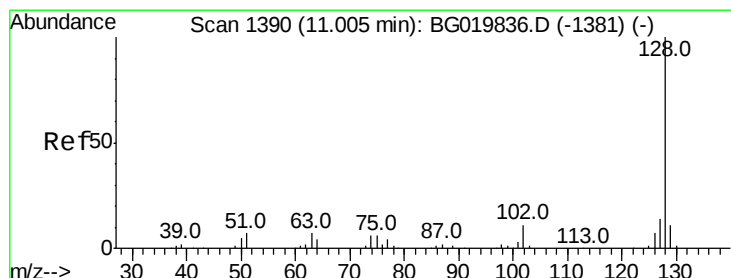
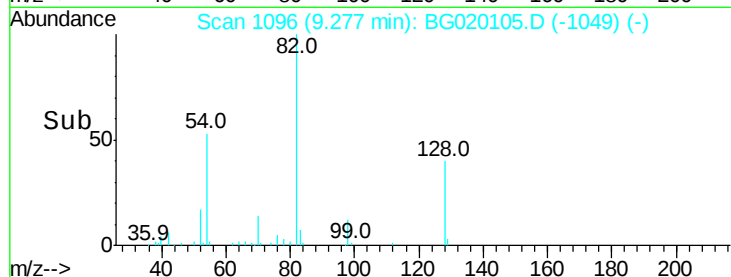
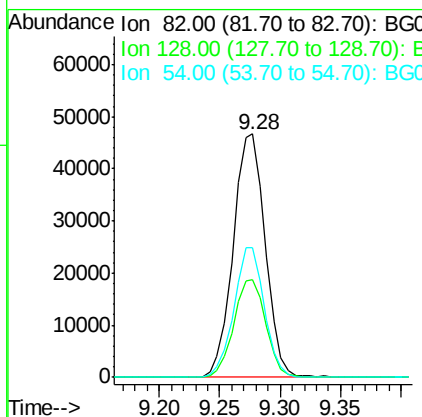
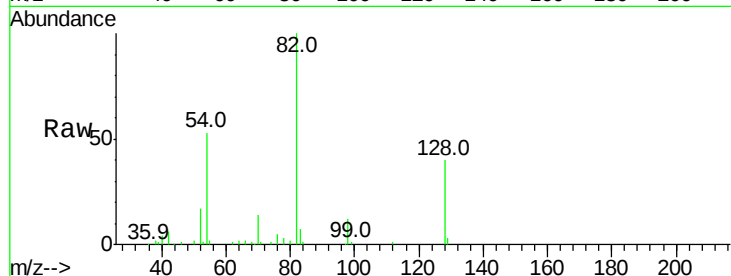




#23
 Nitrobenzene-d5
 Concen: 47.98 ng
 RT: 9.28 min Scan# 1096
 Delta R.T. -0.02 min
 Lab File: BG020105.D
 Acq: 11 Dec 2015 11:37

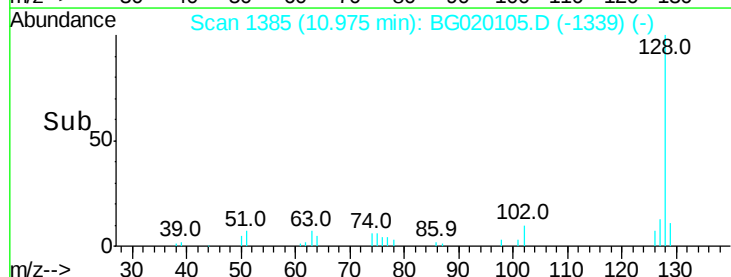
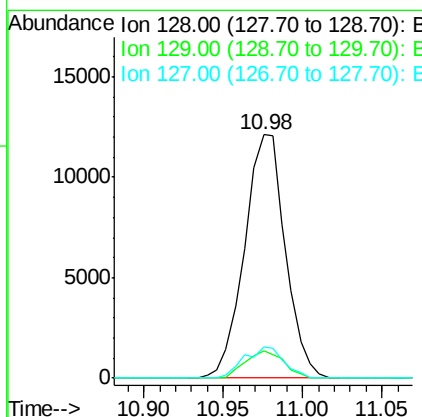
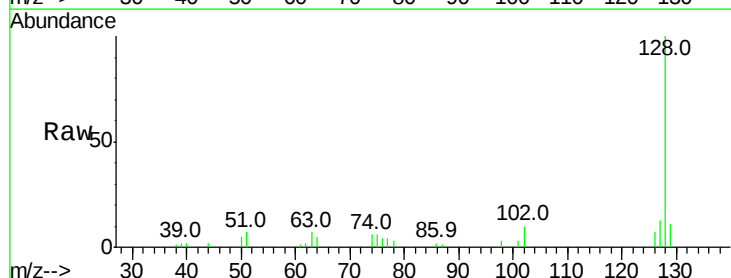
Instrument :
 BNA_G
 ClientSampleId :
 S21-15DL

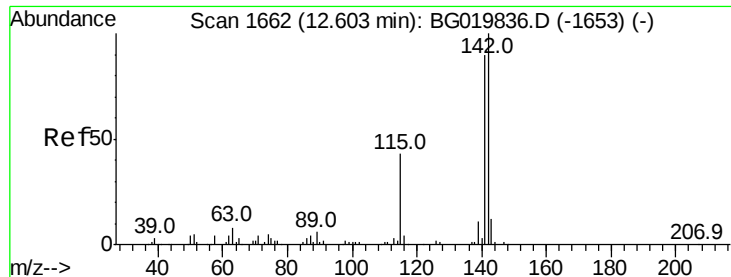
Tot Ion: 82 Resp: 86075
 Ion Ratio Lower Upper
 82 100
 128 39.9 36.7 55.1
 54 53.3 33.8 50.8#



#31
 Naphthalene
 Concen: 4.41 ng
 RT: 10.98 min Scan# 1385
 Delta R.T. -0.03 min
 Lab File: BG020105.D
 Acq: 11 Dec 2015 11:37

Tgt Ion: 128 Resp: 21652
 Ion Ratio Lower Upper
 128 100
 129 11.4 8.5 12.7
 127 12.6 10.6 16.0

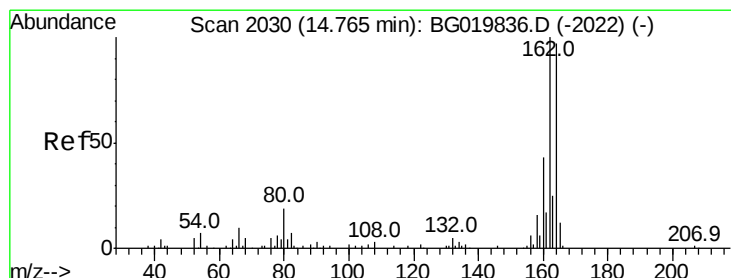
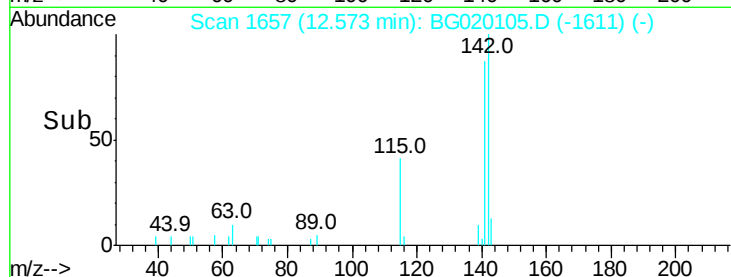
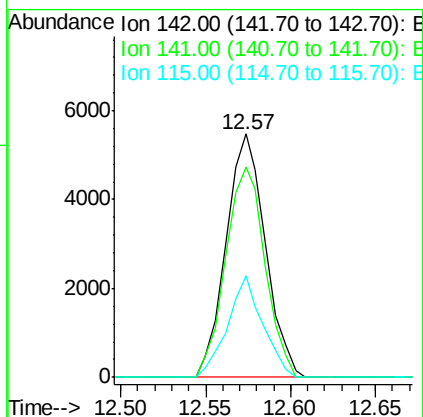
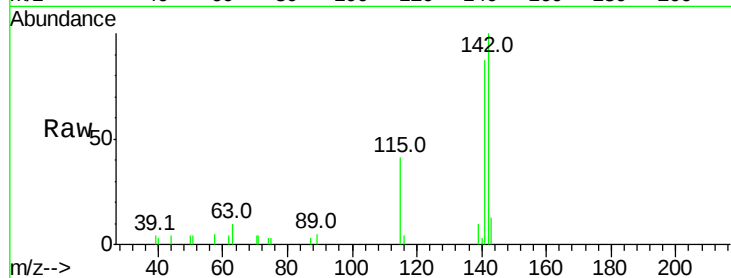




#37
2-Methylnaphthalene
Concen: 2.44 ng
RT: 12.57 min Scan# 1657
Delta R.T. -0.03 min
Lab File: BG020105.D
Acq: 11 Dec 2015 11:37

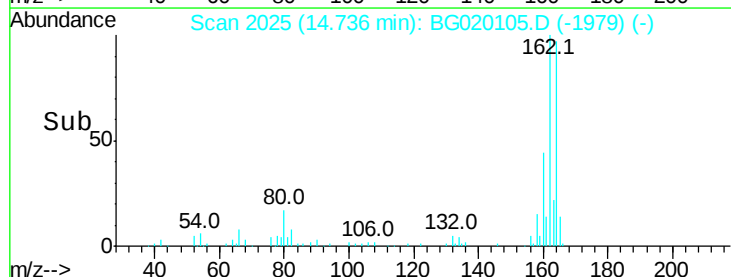
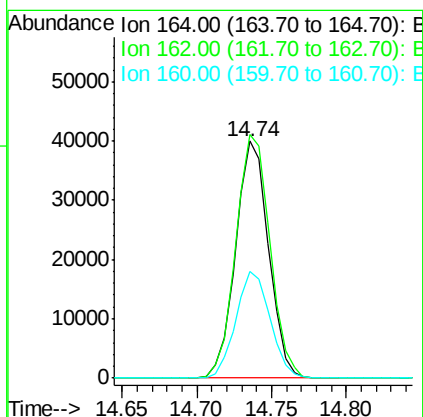
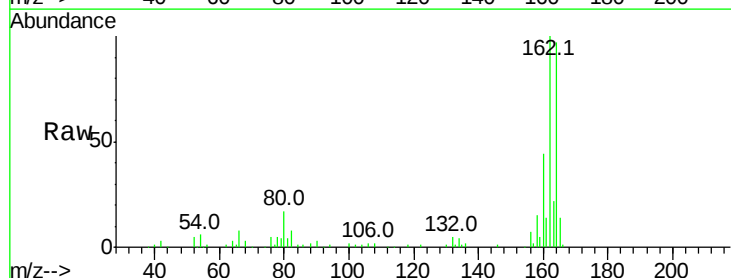
Instrument :
BNA_G
ClientSampleId :
S21-15DL

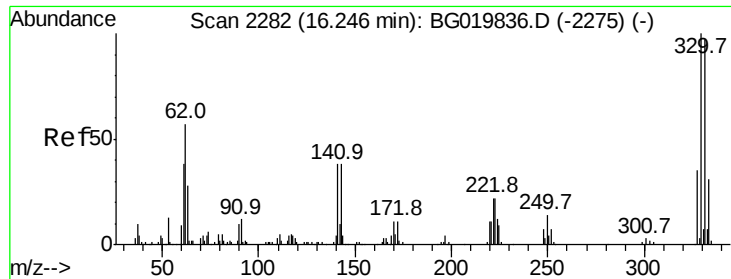
Tot Ion:142 Resp: 8788
Ion Ratio Lower Upper
142 100
141 86.5 74.6 112.0
115 41.5 27.4 41.0#



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.74 min Scan# 2025
Delta R.T. -0.03 min
Lab File: BG020105.D
Acq: 11 Dec 2015 11:37

Tgt Ion:164 Resp: 61193
Ion Ratio Lower Upper
164 100
162 102.9 78.8 118.2
160 45.2 36.4 54.6

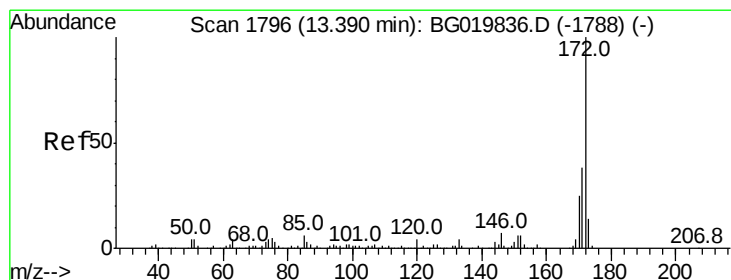
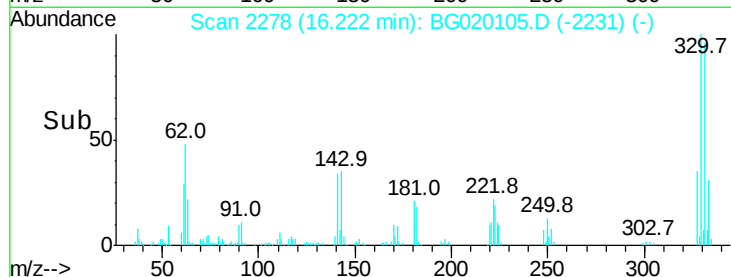
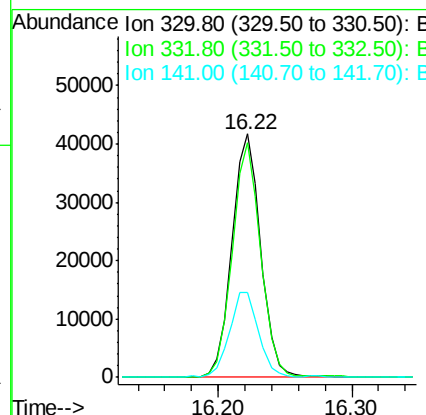
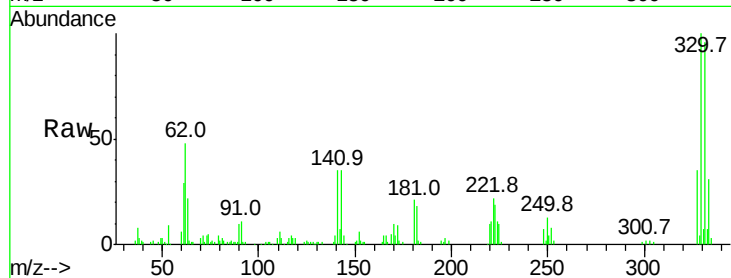




#41
 2,4,6-Tribromophenol
 Concen: 67.05 ng
 RT: 16.22 min Scan# 2278
 Delta R.T. -0.02 min
 Lab File: BG020105.D
 Acq: 11 Dec 2015 11:37

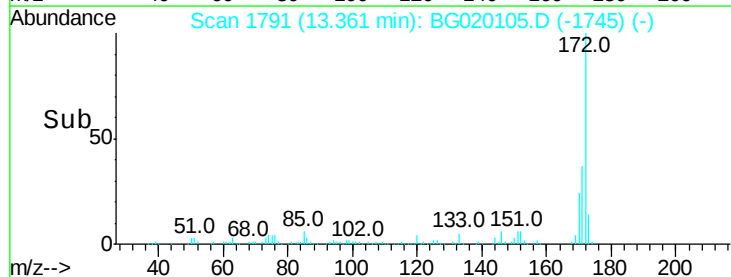
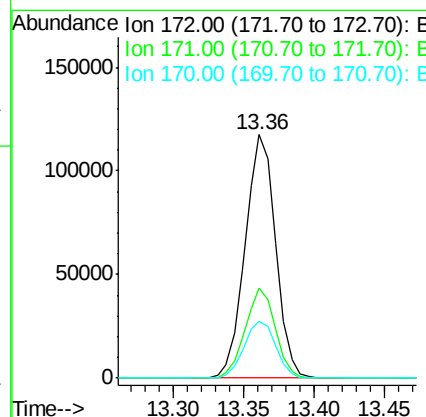
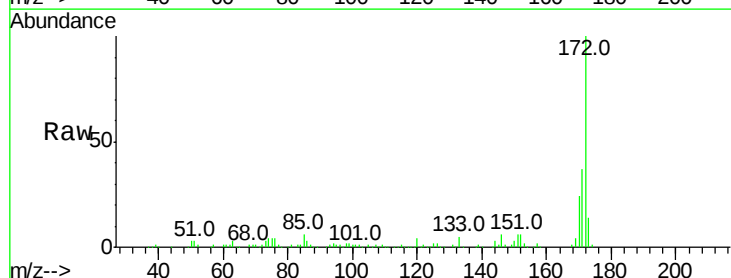
Instrument :
 BNA_G
 ClientSampleId :
 S21-15DL

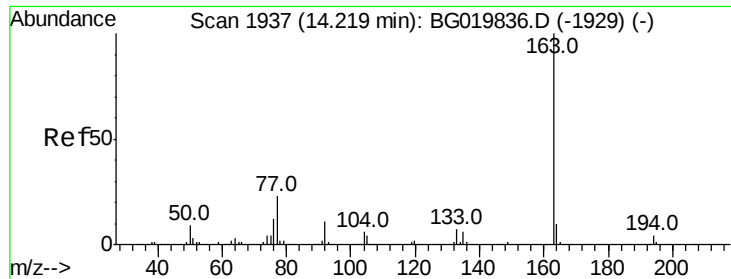
Tot Ion:330 Resp: 62776
 Ion Ratio Lower Upper
 330 100
 332 95.5 78.1 117.1
 141 36.0 28.2 42.2



#44
 2-Fluorobiphenyl
 Concen: 39.62 ng
 RT: 13.36 min Scan# 1791
 Delta R.T. -0.03 min
 Lab File: BG020105.D
 Acq: 11 Dec 2015 11:37

Tgt Ion:172 Resp: 177558
 Ion Ratio Lower Upper
 172 100
 171 37.0 29.0 43.6
 170 23.5 19.9 29.9





#49

Dimethylphthalate

Concen: 12.46 ng

RT: 14.18 min Scan# 1931

Delta R.T. -0.04 min

Lab File: BG020105.D

Acq: 11 Dec 2015 11:37

Instrument :

BNA_G

ClientSampleId :

S21-15DL

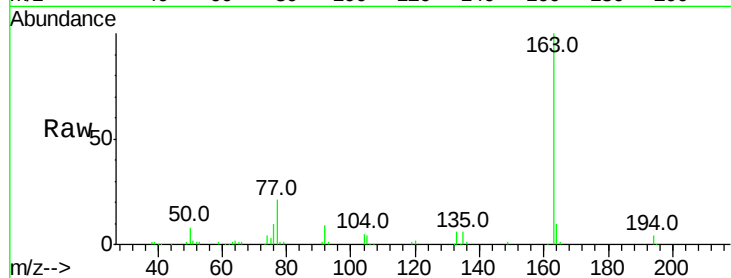
Tot Ion:163 Resp: 68578

Ion Ratio Lower Upper

163 100

194 4.3 3.1 4.7

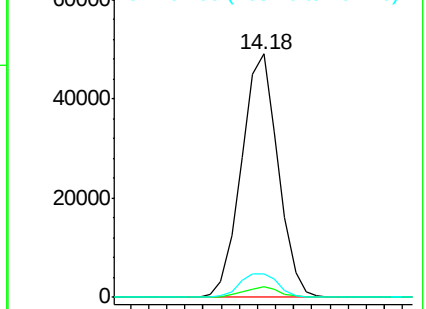
164 9.7 8.8 13.2



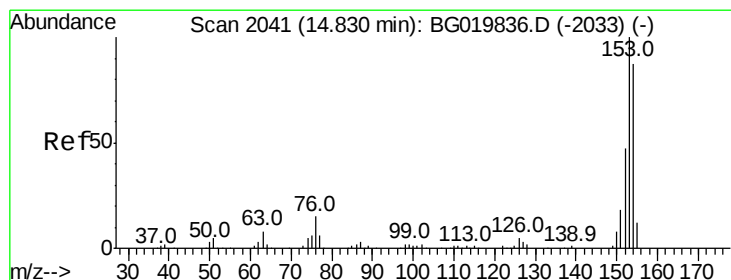
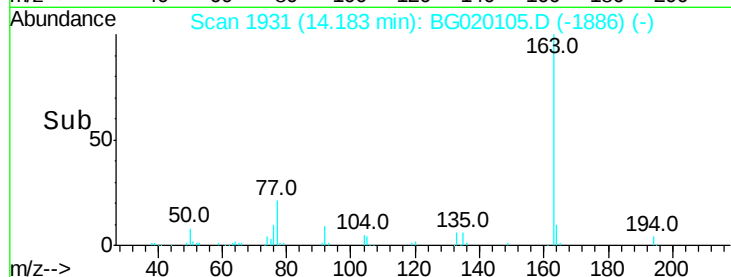
Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



Time-->



#51

Acenaphthene

Concen: 7.09 ng

RT: 14.80 min Scan# 2036

Delta R.T. -0.03 min

Lab File: BG020105.D

Acq: 11 Dec 2015 11:37

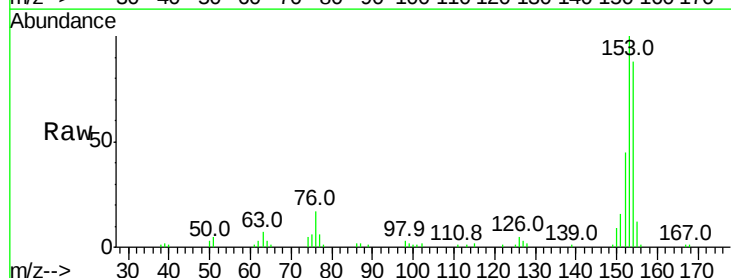
Tgt Ion:154 Resp: 28376

Ion Ratio Lower Upper

154 100

153 114.1 92.9 139.3

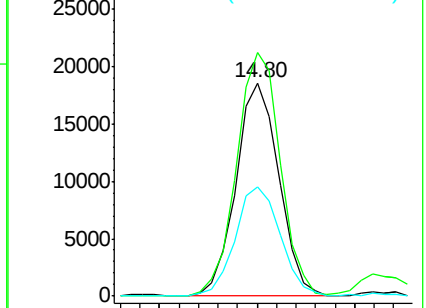
152 51.2 45.8 68.8



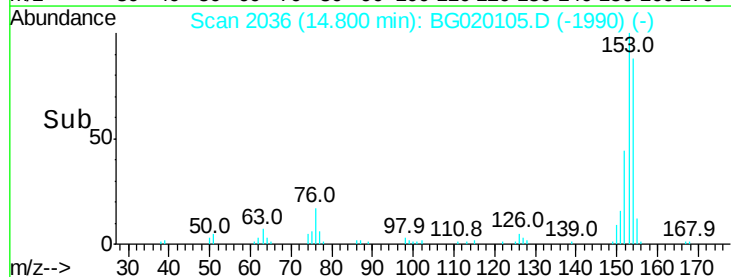
Abundance Ion 154.00 (153.70 to 154.70): E

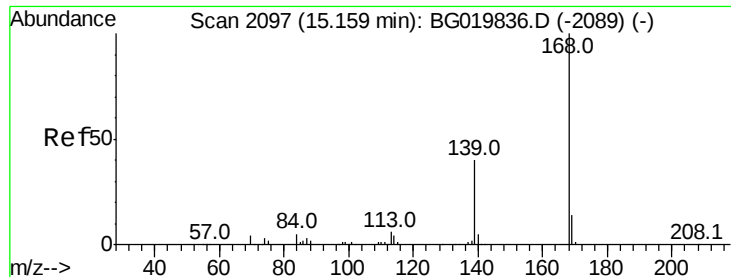
Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



Time-->





#54

Dibenzofuran

Concen: 5.49 ng

RT: 15.13 min Scan# 2092

Delta R.T. -0.03 min

Lab File: BG020105.D

Acq: 11 Dec 2015 11:37

Instrument :

BNA_G

ClientSampleId :

S21-15DL

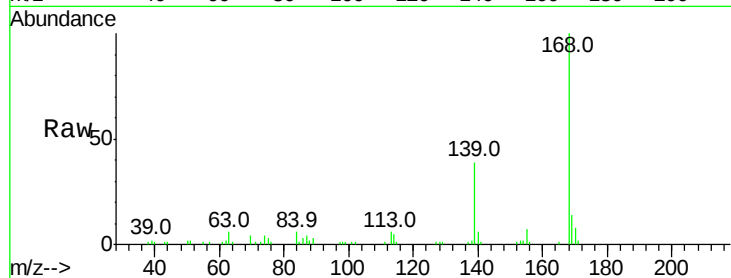
Tot Ion:168 Resp: 32655

Ion Ratio Lower Upper

168 100

139 38.8 27.4 41.0

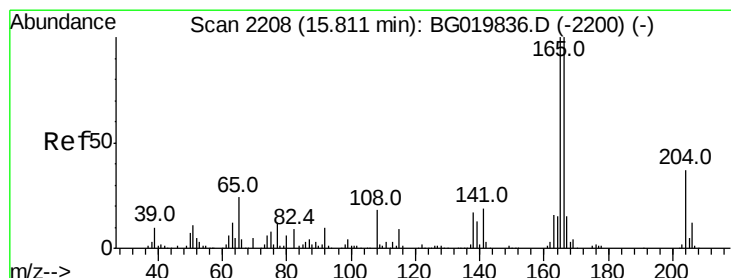
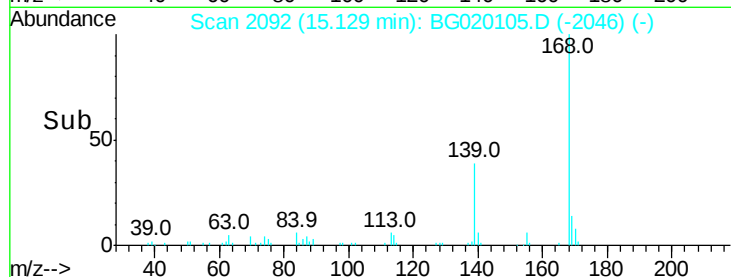
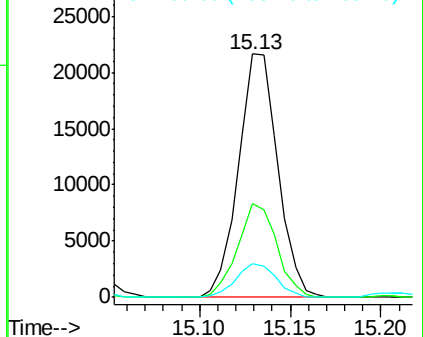
169 13.8 11.0 16.4



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#57

Fluorene

Concen: 7.30 ng

RT: 15.78 min Scan# 2203

Delta R.T. -0.03 min

Lab File: BG020105.D

Acq: 11 Dec 2015 11:37

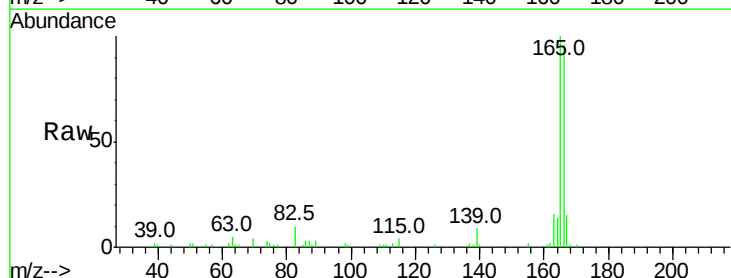
Tgt Ion:166 Resp: 38885

Ion Ratio Lower Upper

166 100

165 104.4 80.0 120.0

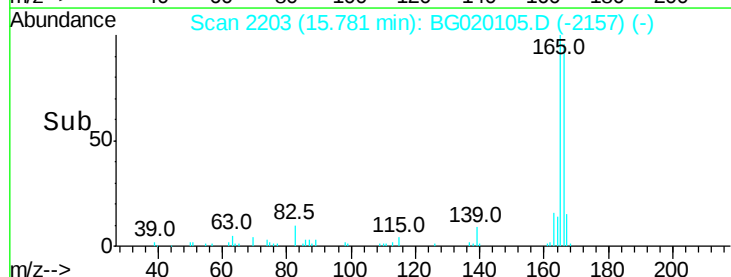
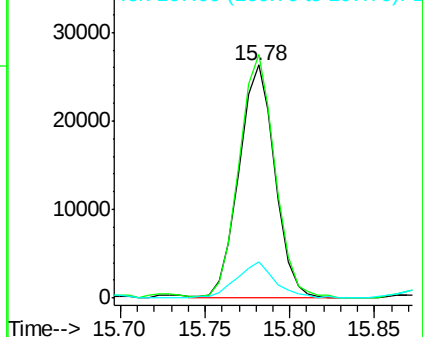
167 15.3 11.1 16.7

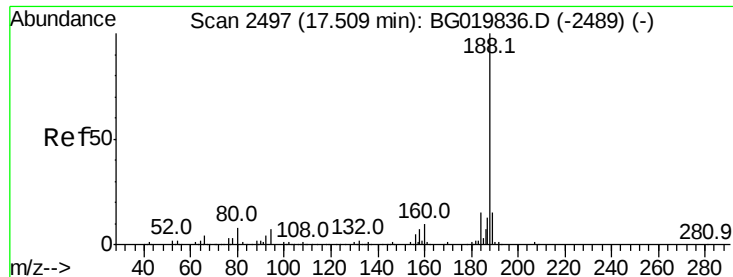


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

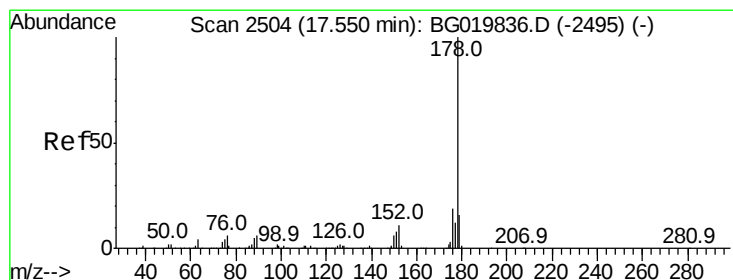
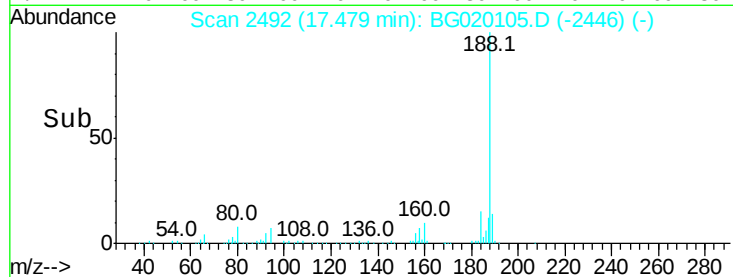
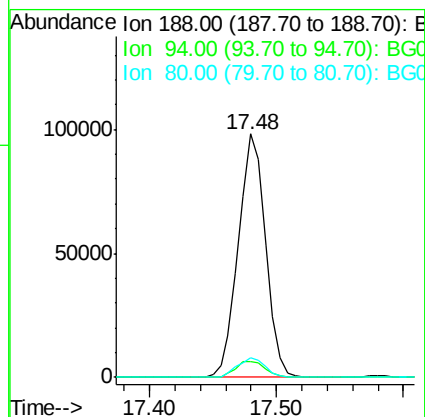
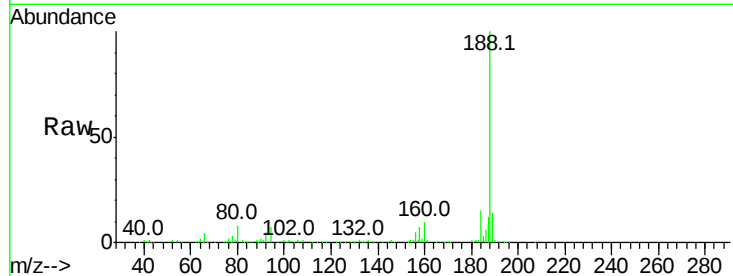




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.48 min Scan# 2492
Delta R.T. -0.03 min
Lab File: BG020105.D
Acq: 11 Dec 2015 11:37

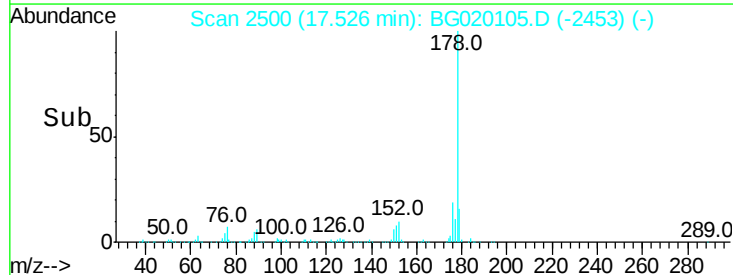
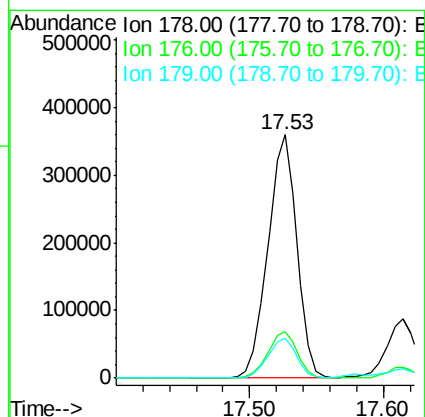
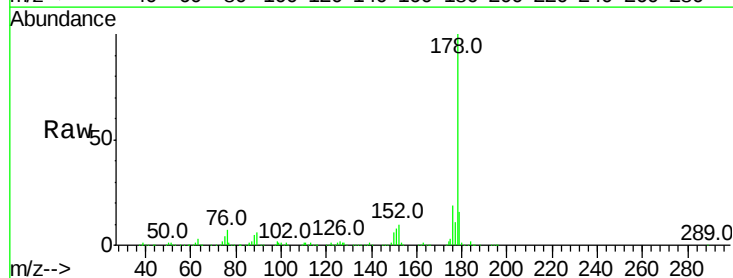
Instrument :
BNA_G
ClientSampleId :
S21-15DL

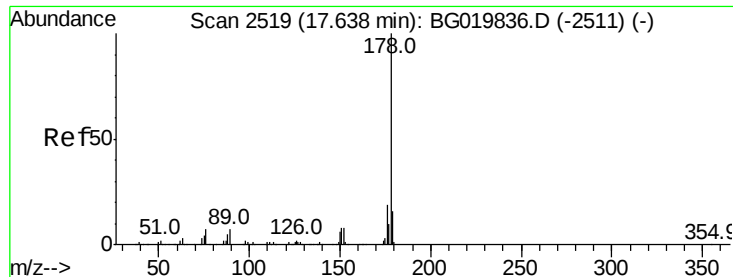
Tot Ion:188 Resp: 145588
Ion Ratio Lower Upper
188 100
94 6.7 7.7 11.5#
80 8.1 7.8 11.8



#70
Phenanthrene
Concen: 65.73 ng
RT: 17.53 min Scan# 2500
Delta R.T. -0.02 min
Lab File: BG020105.D
Acq: 11 Dec 2015 11:37

Tgt Ion:178 Resp: 541428
Ion Ratio Lower Upper
178 100
176 19.3 16.7 25.1
179 16.3 13.9 20.9





#71

Anthracene

Concen: 14.88 ng

RT: 17.61 min Scan# 2515

Delta R.T. -0.02 min

Lab File: BG020105.D

Acq: 11 Dec 2015 11:37

Instrument :

BNA_G

ClientSampleId :

S21-15DL

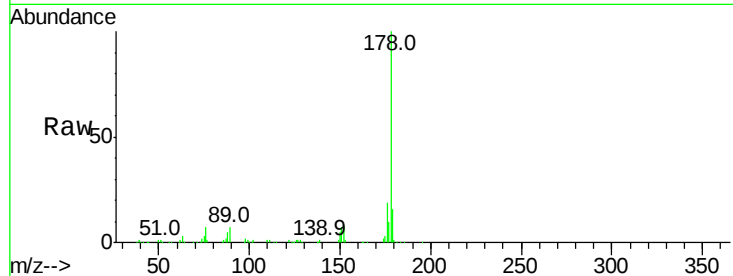
Tot Ion:178 Resp: 124822

Ion Ratio Lower Upper

178 100

176 18.9 16.8 25.2

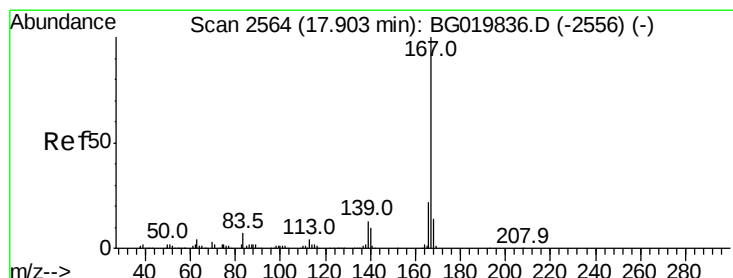
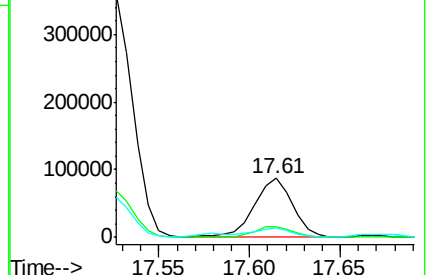
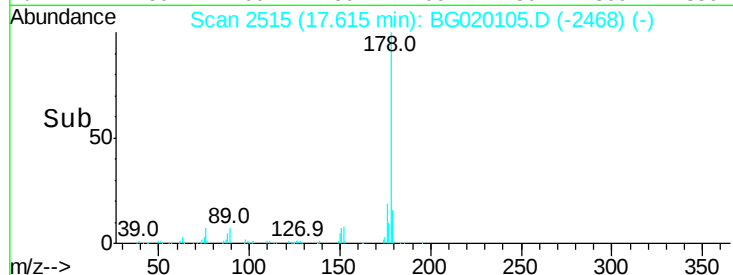
179 15.7 13.9 20.9



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 5.76 ng

RT: 17.88 min Scan# 2560

Delta R.T. -0.02 min

Lab File: BG020105.D

Acq: 11 Dec 2015 11:37

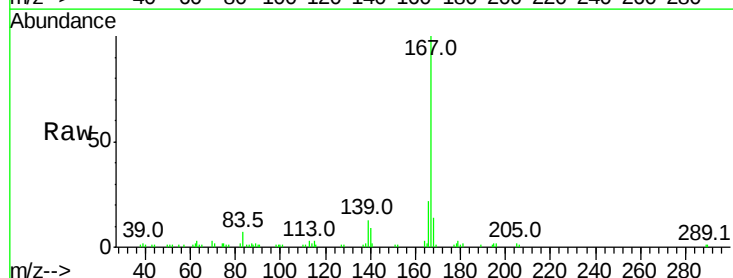
Tgt Ion:167 Resp: 42610

Ion Ratio Lower Upper

167 100

166 22.0 19.0 28.6

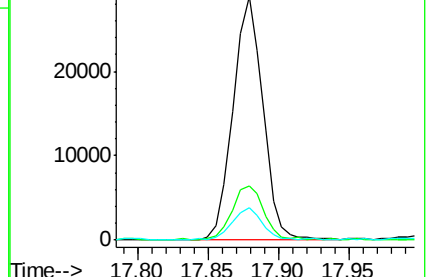
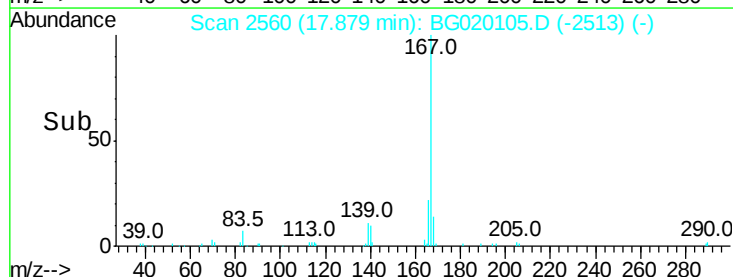
139 13.2 10.2 15.4

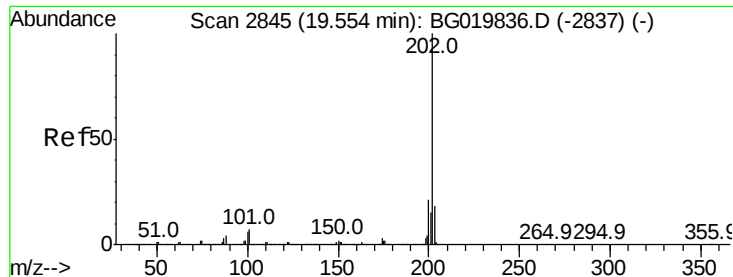


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 53.11 ng

RT: 19.53 min Scan# 2841

Delta R.T. -0.02 min

Lab File: BG020105.D

Acq: 11 Dec 2015 11:37

Instrument :

BNA_G

ClientSampleId :

S21-15DL

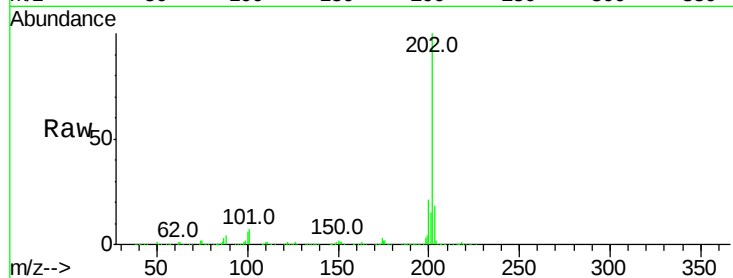
Tot Ion:202 Resp: 559603

Ion Ratio Lower Upper

202 100

101 7.4 0.0 32.4

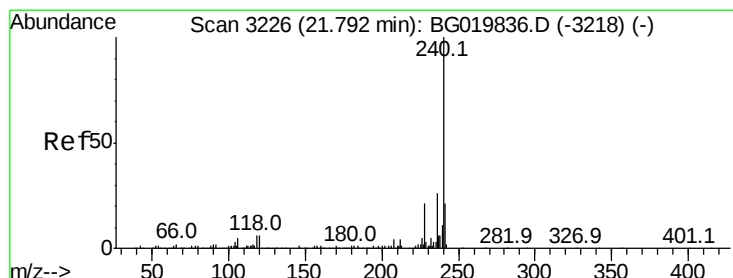
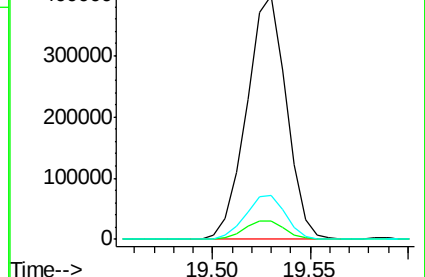
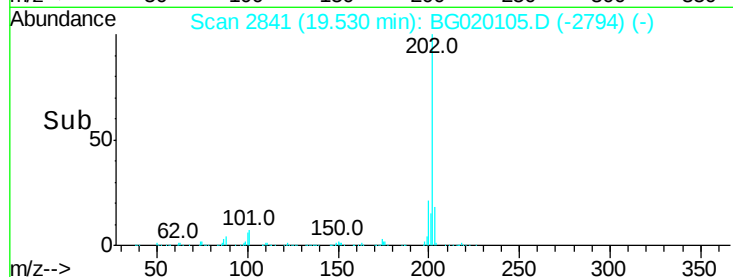
203 17.9 0.0 39.5



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: 21.76 min Scan# 3220

Delta R.T. -0.04 min

Lab File: BG020105.D

Acq: 11 Dec 2015 11:37

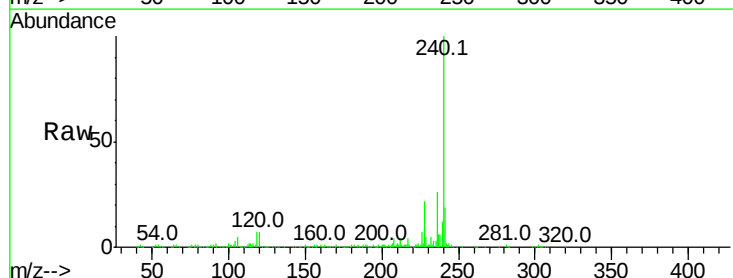
Tgt Ion:240 Resp: 179010

Ion Ratio Lower Upper

240 100

120 6.7 7.4 11.0#

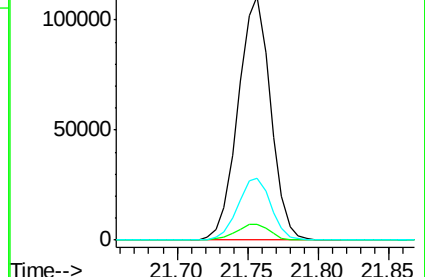
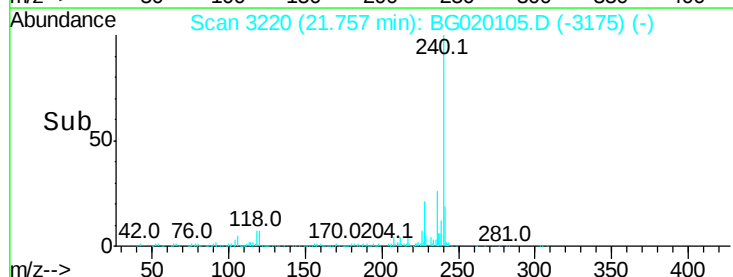
236 25.5 20.7 31.1

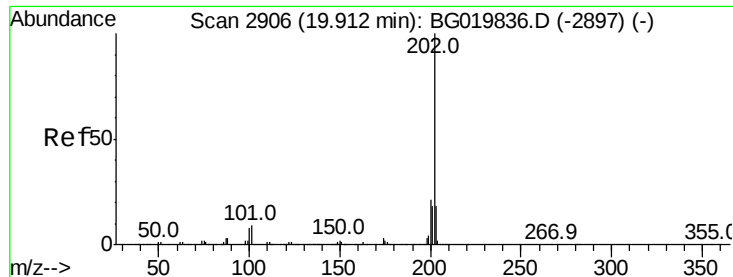


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

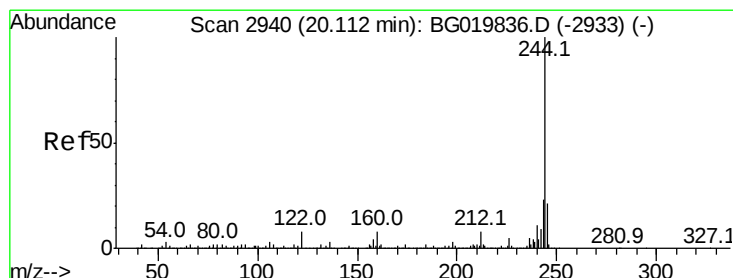
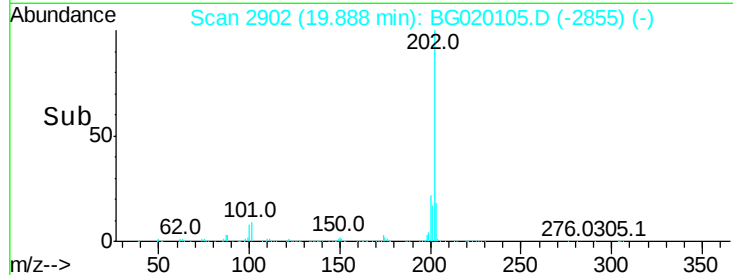
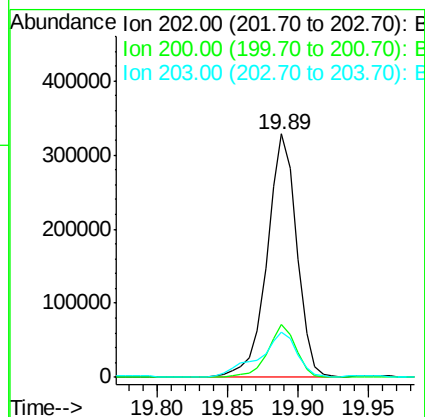
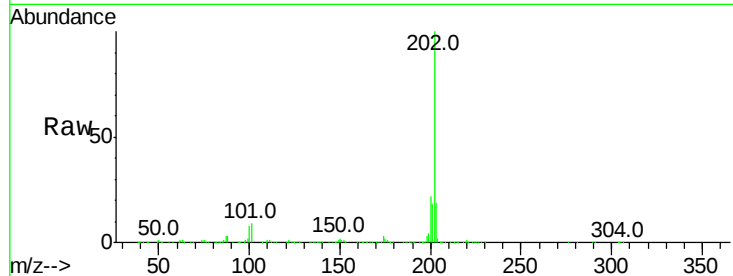




#77
Pvrene
Concen: 45.87 ng
RT: 19.89 min Scan# 2902
Delta R.T. -0.02 min
Lab File: BG020105.D
Acq: 11 Dec 2015 11:37

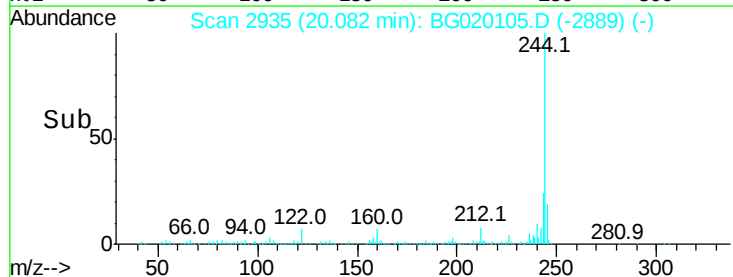
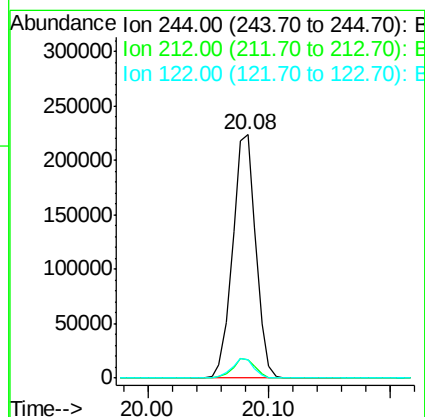
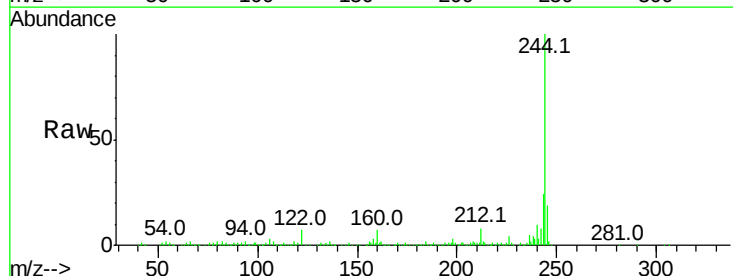
Instrument :
BNA_G
ClientSampleId :
S21-15DL

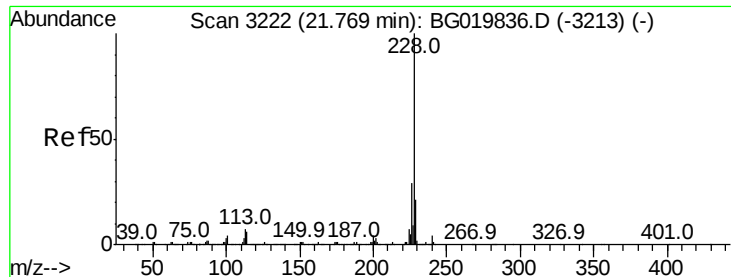
Tot Ion:	202	Resp:	483092
Ion	Ratio	Lower	Upper
202	100		
200	21.5	19.4	29.0
203	18.8	15.5	23.3



#78
Terphenyl-d14
Concen: 40.57 ng
RT: 20.08 min Scan# 2935
Delta R.T. -0.03 min
Lab File: BG020105.D
Acq: 11 Dec 2015 11:37

Tgt Ion:	244	Resp:	297706
Ion	Ratio	Lower	Upper
244	100		
212	7.7	6.9	10.3
122	7.3	10.2	15.2#

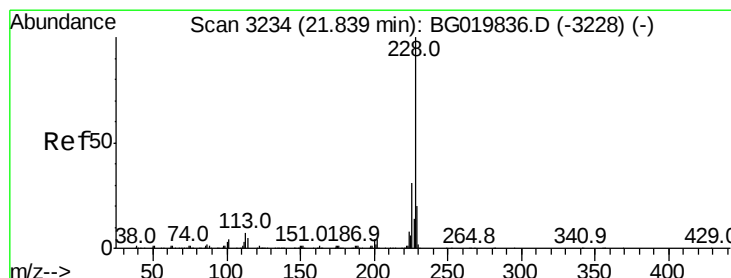
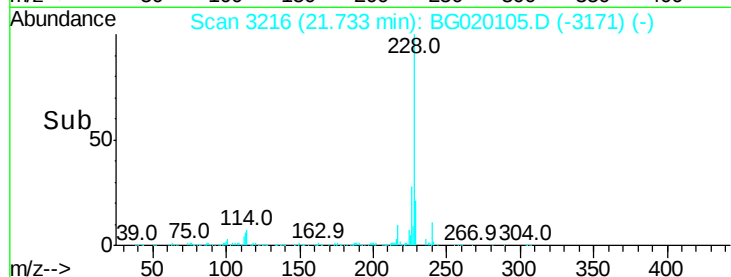
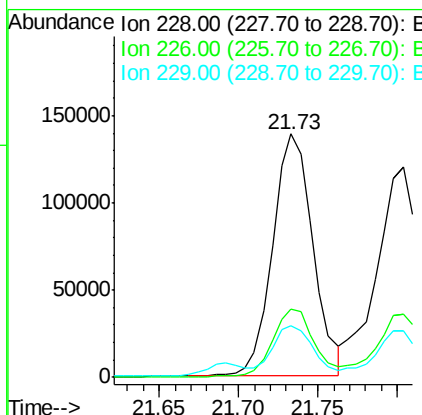
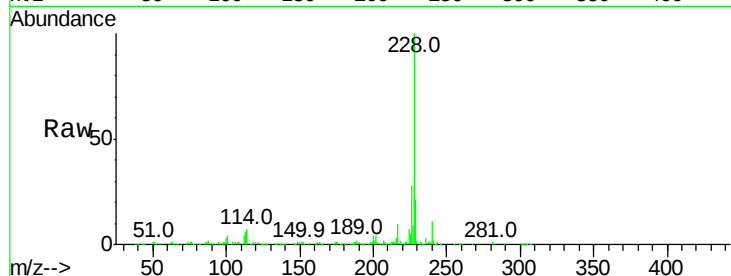




#80
Benzo(a)anthracene
Concen: 22.42 ng
RT: 21.73 min Scan# 3216
Delta R.T. -0.04 min
Lab File: BG020105.D
Acq: 11 Dec 2015 11:37

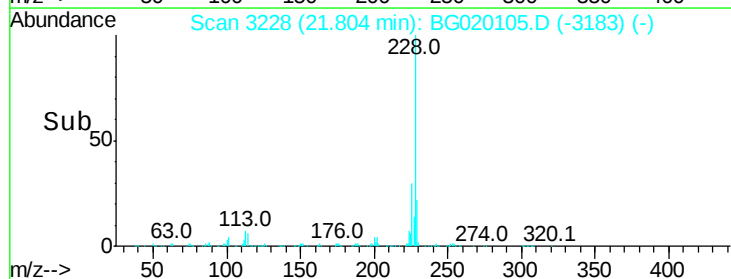
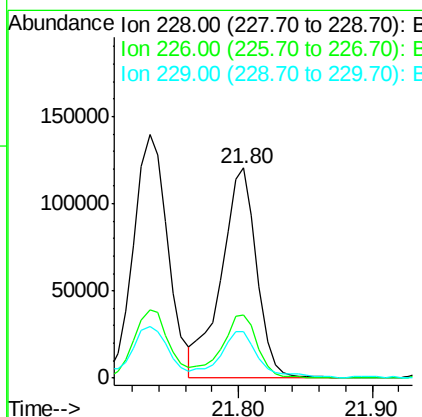
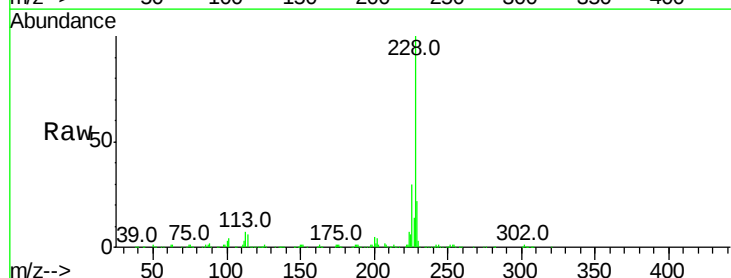
Instrument :
BNA_G
ClientSampleId :
S21-15DL

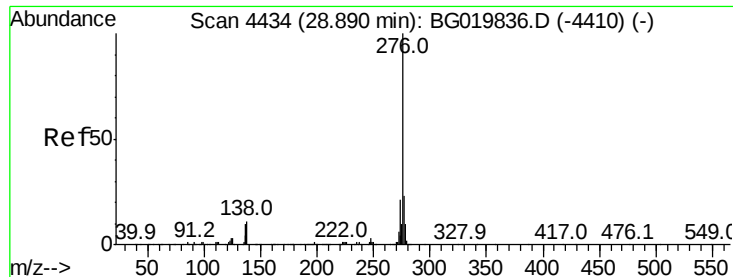
Tot Ion	Ratio	Lower	Upper
228	100		
226	28.0	23.4	35.0
229	21.4	16.6	25.0



#82
Chrysene
Concen: 21.26 ng
RT: 21.80 min Scan# 3228
Delta R.T. -0.04 min
Lab File: BG020105.D
Acq: 11 Dec 2015 11:37

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.2	26.7	40.1
229	22.3	17.0	25.6





#85

Indeno(1,2,3-cd)pyrene

Concen: 7.33 ng

RT: 28.78 min Scan# 4415

Delta R.T. -0.11 min

Lab File: BG020105.D

Acq: 11 Dec 2015 11:37

Instrument :

BNA_G

ClientSampleId :

S21-15DL

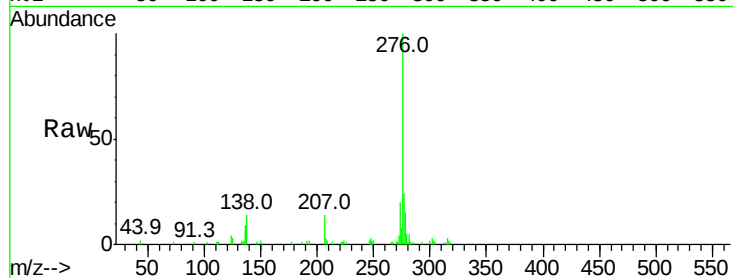
Tot Ion:276 Resp: 84028

Ion Ratio Lower Upper

276 100

138 14.1 0.0 0.0#

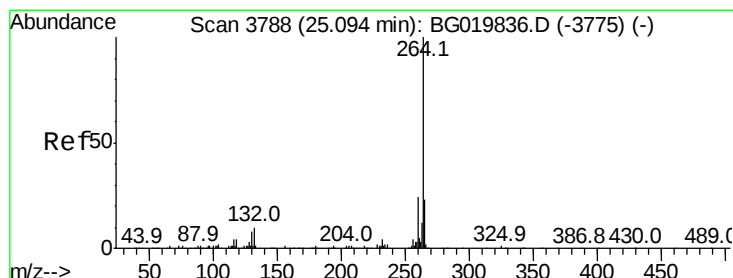
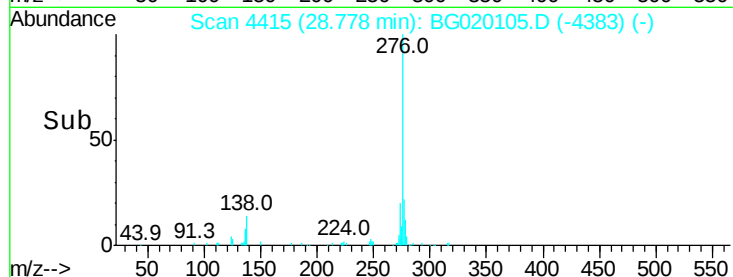
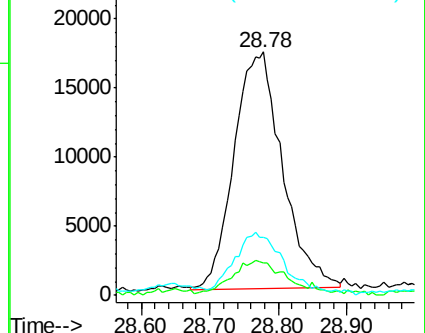
277 23.7 0.0 0.0#



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: 25.03 min Scan# 3777

Delta R.T. -0.06 min

Lab File: BG020105.D

Acq: 11 Dec 2015 11:37

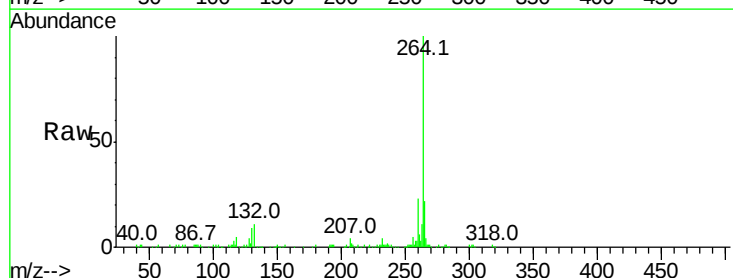
Tgt Ion:264 Resp: 168109

Ion Ratio Lower Upper

264 100

260 22.6 18.5 27.7

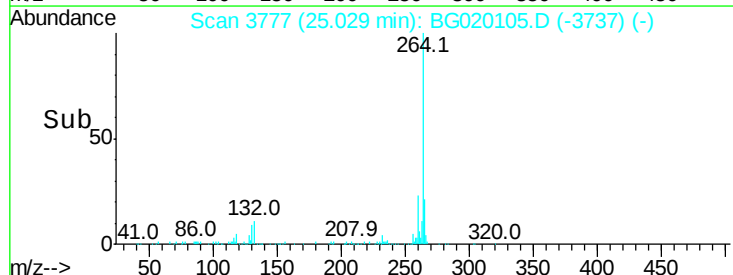
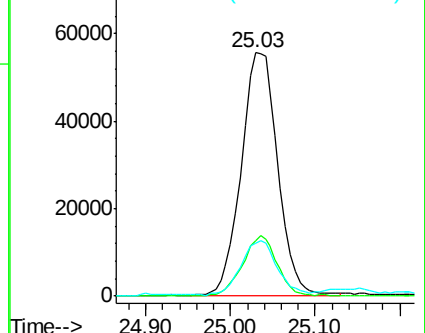
265 21.8 17.2 25.8

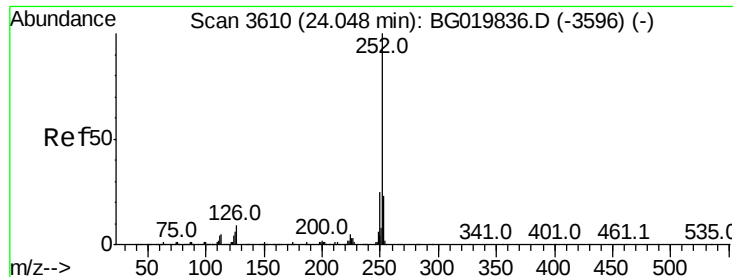


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 20.05 ng m

RT: 23.99 min Scan# 3600

Delta R.T. -0.06 min

Lab File: BG020105.D

Acq: 11 Dec 2015 11:37

Instrument :

BNA_G

ClientSampleId :

S21-15DL

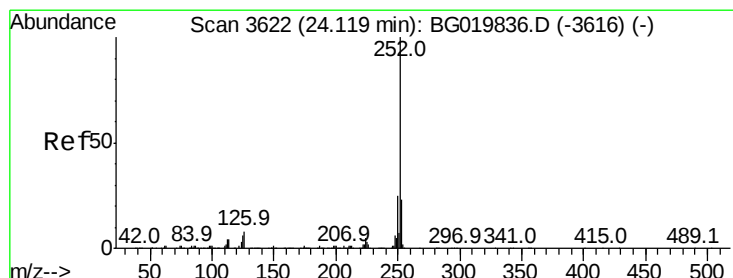
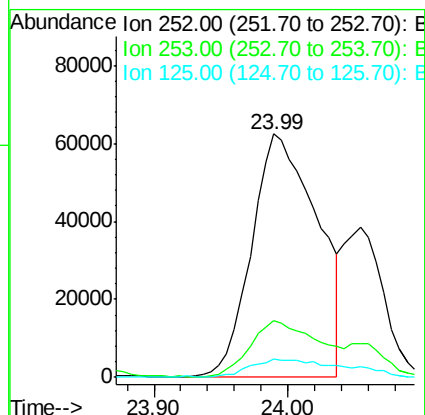
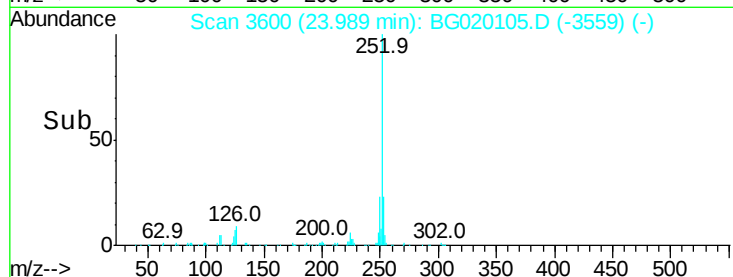
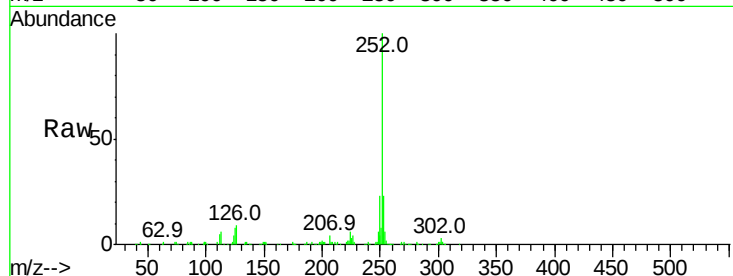
Tot Ion:252 Resp: 213598

Ion Ratio Lower Upper

252 100

253 23.2 19.1 28.7

125 7.7 8.9 13.3#



#88

Benzo(k)fluoranthene

Concen: 7.57 ng m

RT: 24.05 min Scan# 3611

Delta R.T. -0.06 min

Lab File: BG020105.D

Acq: 11 Dec 2015 11:37

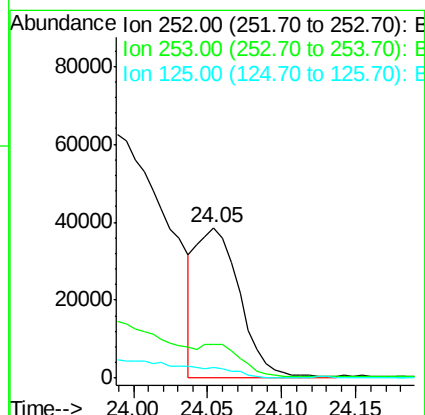
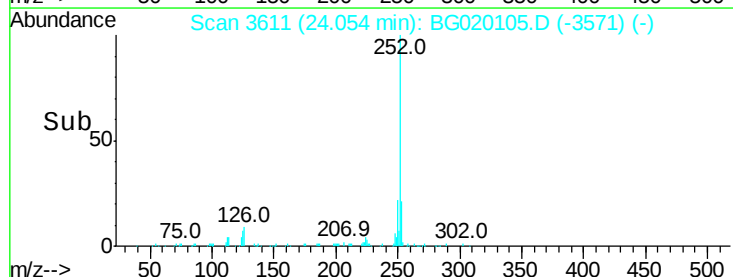
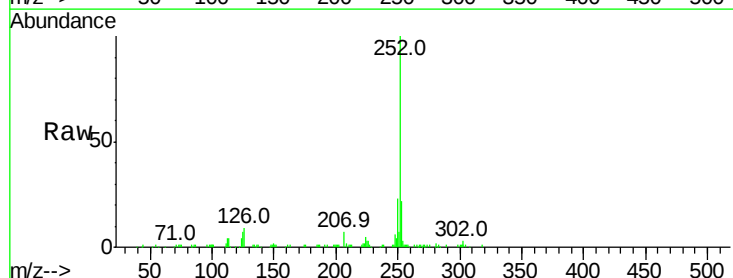
Tgt Ion:252 Resp: 79889

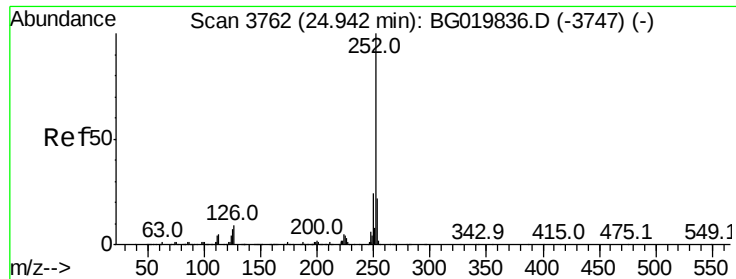
Ion Ratio Lower Upper

252 100

253 22.1 19.0 28.4

125 7.2 8.9 13.3#





#89

Benzo(a)pyrene

Concen: 16.58 ng/mL

RT: 24.88 min Scan# 3751

Delta R.T. -0.06 min

Lab File: BG020105.D

Acq: 11 Dec 2015 11:37

Instrument :

BNA_G

ClientSampleId :

S21-15DL

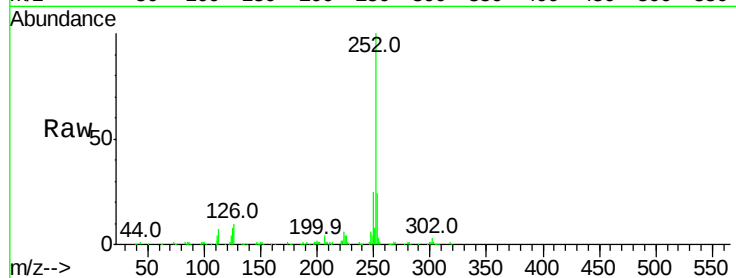
Tot Ion:252 Resp: 167685

Ion Ratio Lower Upper

252 100

253 24.2 18.7 28.1

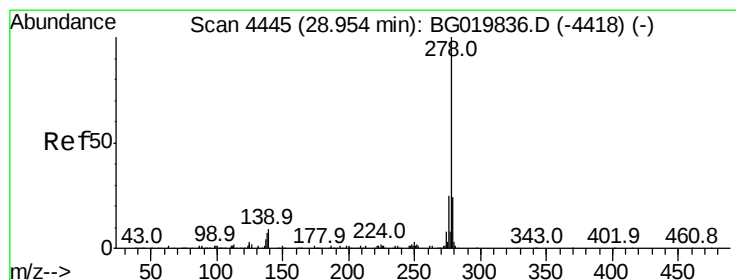
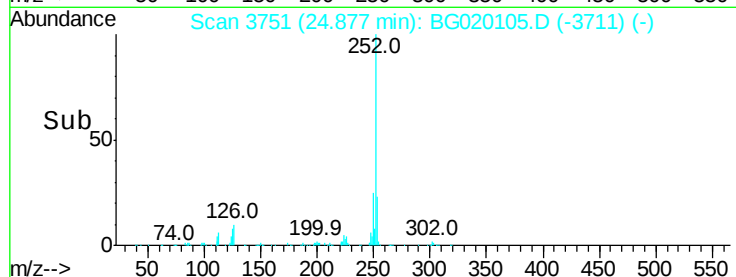
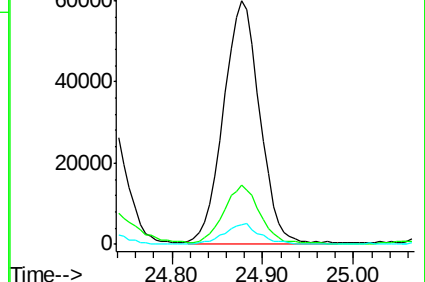
125 8.0 9.1 13.7#



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



#90

Dibenzo(a,h)anthracene

Concen: 2.44 ng/mL

RT: 28.84 min Scan# 4425

Delta R.T. -0.12 min

Lab File: BG020105.D

Acq: 11 Dec 2015 11:37

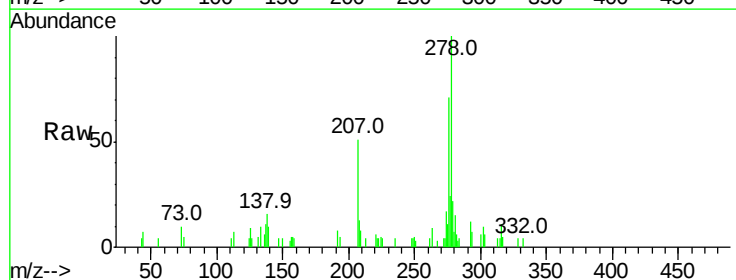
Tgt Ion:278 Resp: 24367

Ion Ratio Lower Upper

278 100

139 10.1 13.8 20.6#

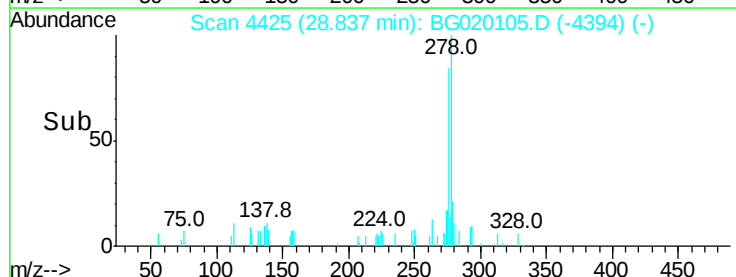
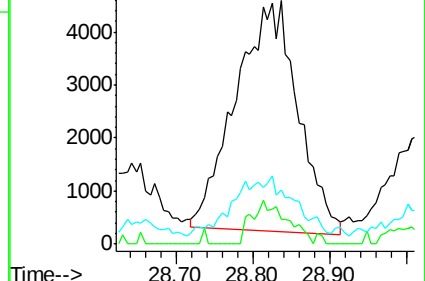
279 22.2 19.4 29.0

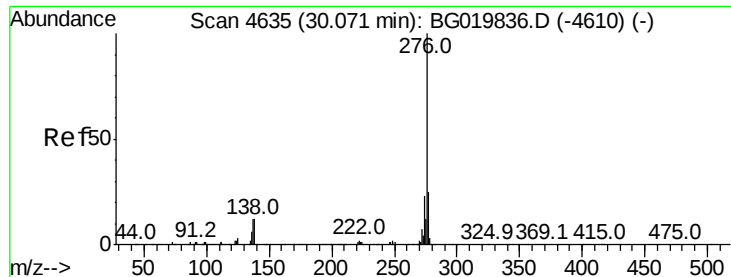


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 7.54 ng

RT: 29.94 min Scan# 4613

Delta R.T. -0.13 min

Lab File: BG020105.D

Acq: 11 Dec 2015 11:37

Instrument :

BNA_G

ClientSampleId :

S21-15DL

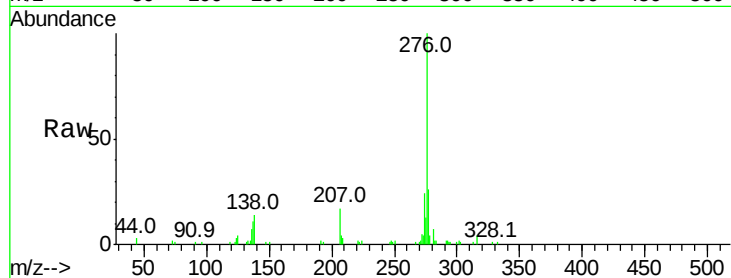
Tot Ion:276 Resp: 73964

Ion Ratio Lower Upper

276 100

277 26.3 18.4 27.6

138 14.4 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

