

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121215\
 Data File : BG020104.D
 Acq On : 11 Dec 2015 10:58
 Operator : UM/SJ
 Sample : G4683-07DL 5X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 S31-15DL

Quant Time: Dec 11 14:38:52 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	21550	20.00	ng	-0.03
21) Naphthalene-d8	10.93	136	94687	20.00	ng	-0.02
38) Acenaphthene-d10	14.74	164	61913	20.00	ng	-0.03
63) Phenanthrene-d10	17.48	188	145799	20.00	ng	-0.03
75) Chrysene-d12	21.76	240	177662	20.00	ng	-0.03
86) Perylene-d12	25.05	264	170763	20.00	ng	-0.05

System Monitoring Compounds						
5) 2-Fluorophenol	5.66	112	30468	25.55	ng	-0.01
7) Phenol-d6	7.26	99	47504	26.39	ng	-0.02
23) Nitrobenzene-d5	9.27	82	32807	17.68	ng	-0.03
41) 2,4,6-Tribromophenol	16.22	330	20188	21.31	ng	-0.02
44) 2-Fluorobiphenyl	13.36	172	59696	13.17	ng	-0.03
78) Terphenyl-d14	20.08	244	95555	13.12	ng	-0.03

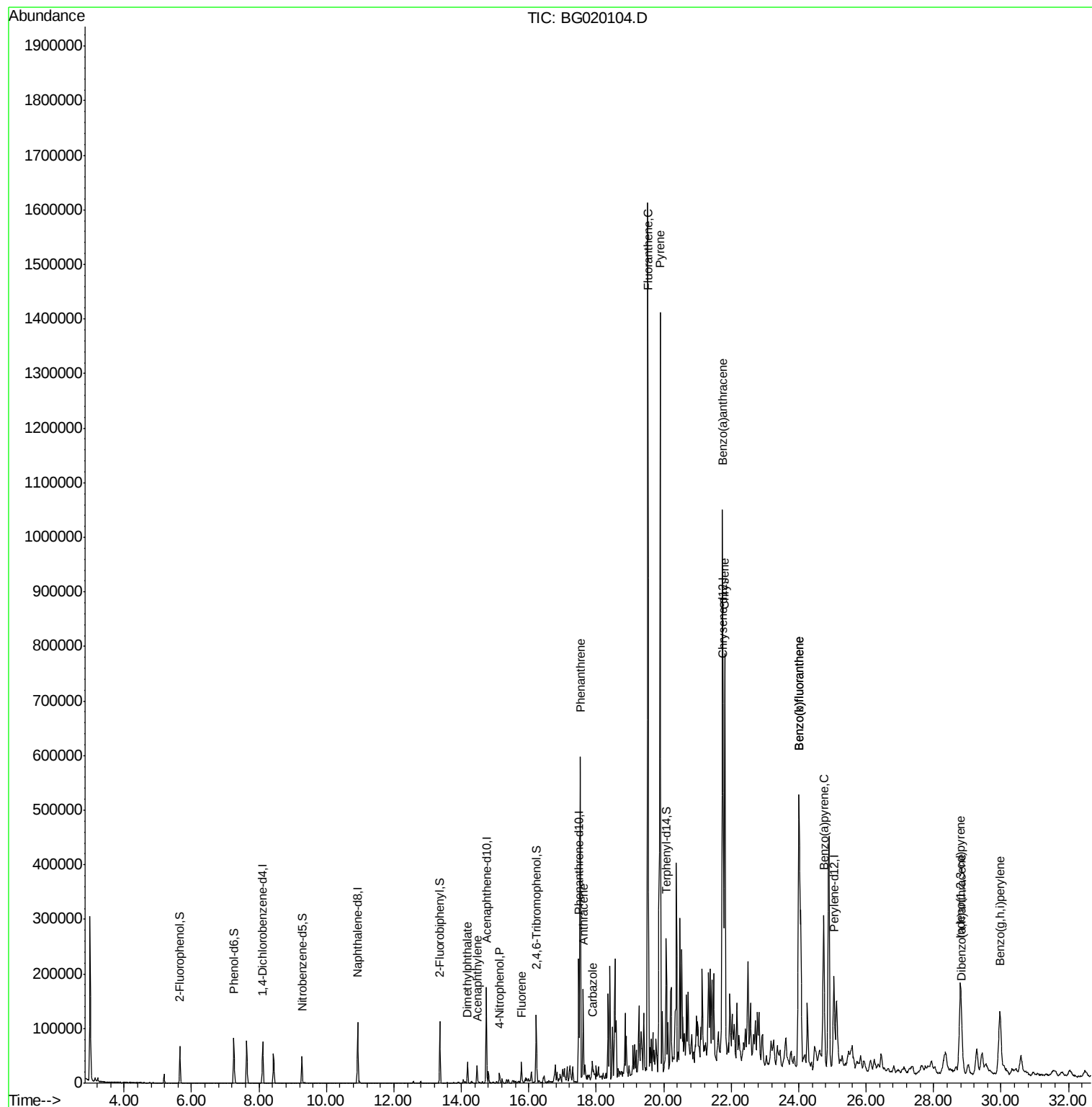
Target Compounds				Qvalue		
48) Acenaphthylene	14.47	152	29529	4.43	ng	95
49) Dimethylphthalate	14.18	163	25572	4.59	ng	96
55) 4-Nitrophenol	15.14	139	3667	3.87	ng	# 11
57) Fluorene	15.78	166	17957	3.33	ng	92
70) Phenanthrene	17.53	178	378737	45.91	ng	96
71) Anthracene	17.61	178	108123	12.87	ng	96
72) Carbazole	17.88	167	16676	2.25	ng	100
74) Fluoranthene	19.53	202	997991	94.59	ng	96
77) Pyrene	19.89	202	912912	87.34	ng	98
80) Benzo(a)anthracene	21.74	228	635110	58.40	ng	98
82) Chrysene	21.81	228	536148	51.92	ng	97
85) Indeno(1,2,3-cd)pyrene	28.80	276	291007	25.58	ng	# 100
87) Benzo(b)fluoranthene	24.01	252	659675	60.95	ng	# 95
88) Benzo(k)fluoranthene	24.01	252	659675	61.55	ng	# 95
89) Benzo(a)pyrene	24.74	252	305547	29.74	ng	98
90) Dibenzo(a,h)anthracene	28.84	278	83698	8.24	ng	# 90
91) Benzo(g,h,i)perylene	29.97	276	268457	26.93	ng	# 92

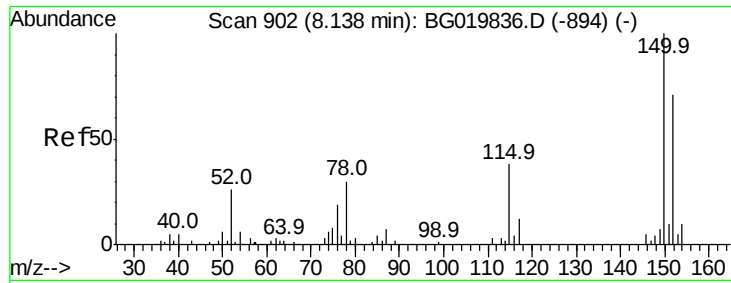
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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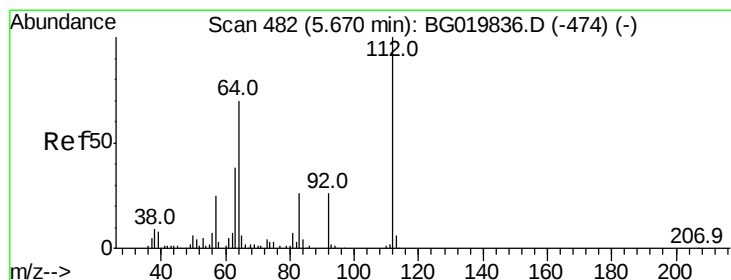
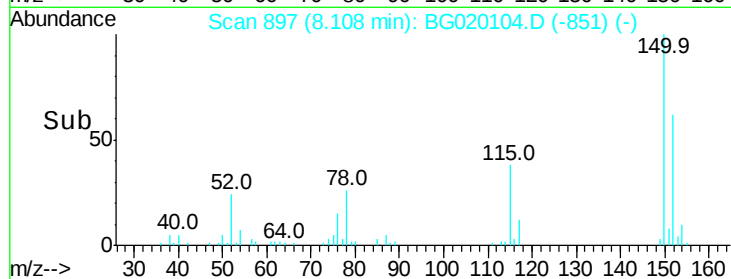
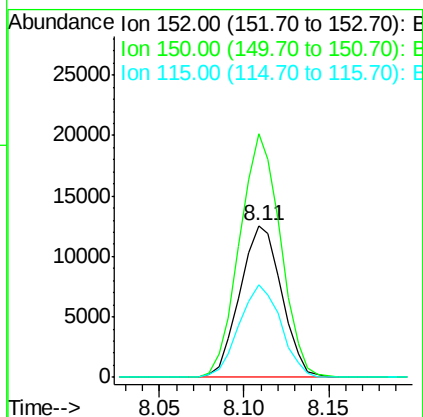
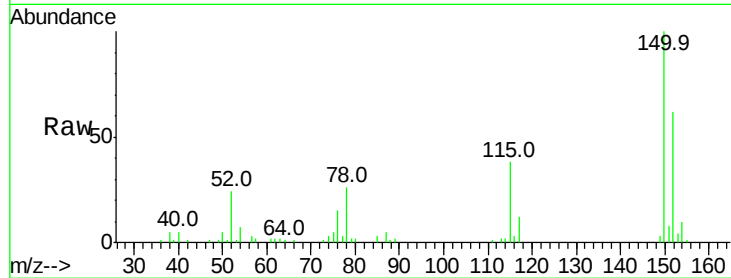


#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.11 min Scan# 897
Delta R.T. -0.03 min
Lab File: BG020104.D
Acq: 11 Dec 2015 10:58

Instrument :
BNA_G
ClientSampled :
S31-15DL

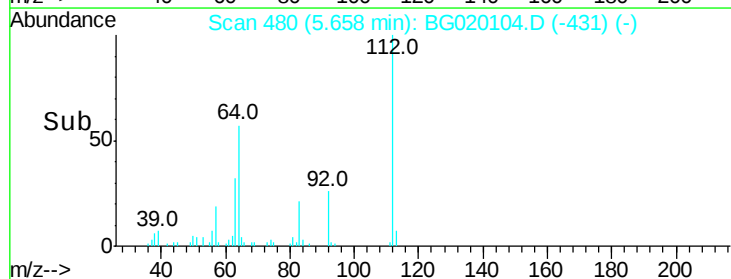
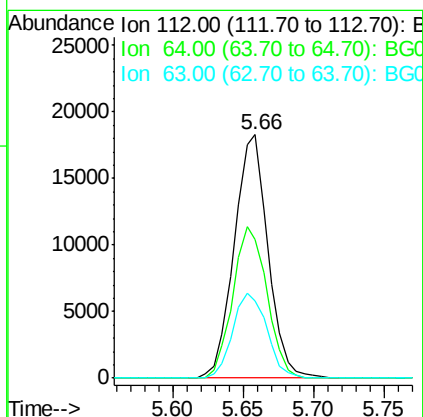
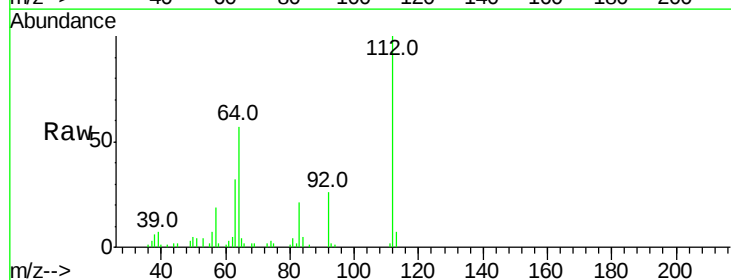
Tot Ion:152 Resp: 21550
Ion Ratio Lower Upper
152 100
150 160.2 115.0 172.4
115 61.1 43.9 65.9

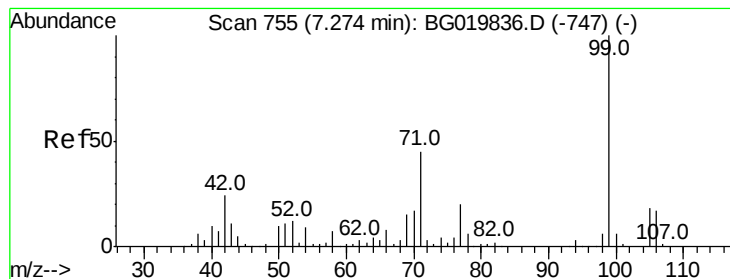


#5

2-Fluorophenol
Concen: 25.55 ng
RT: 5.66 min Scan# 480
Delta R.T. -0.01 min
Lab File: BG020104.D
Acq: 11 Dec 2015 10:58

Tgt Ion:112 Resp: 30468
Ion Ratio Lower Upper
112 100
64 57.1 43.7 65.5
63 31.7 24.0 36.0





#7

Phenol-d6

Concen: 26.39 ng

RT: 7.26 min Scan# 752

Delta R.T. -0.02 min

Lab File: BG020104.D

Acq: 11 Dec 2015 10:58

Instrument :

BNA_G

ClientSampleId :

S31-15DL

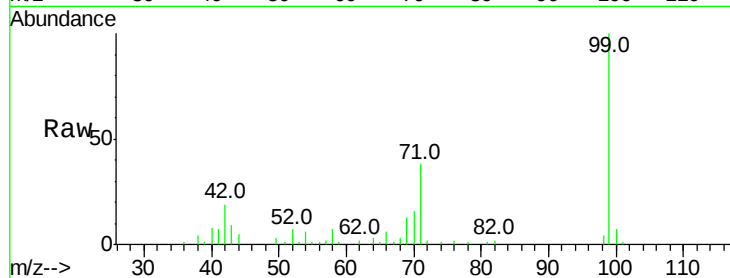
Tot Ion: 99 Resp: 47504

Ion Ratio Lower Upper

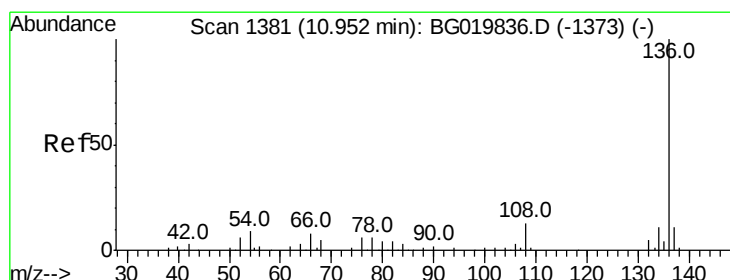
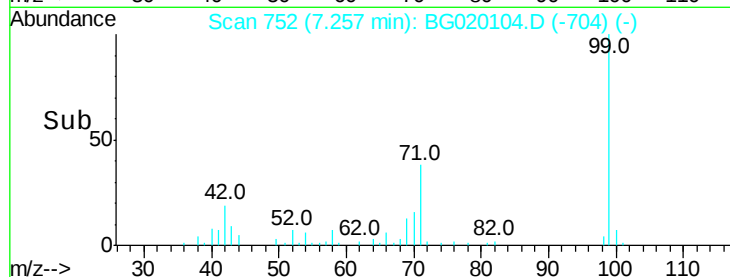
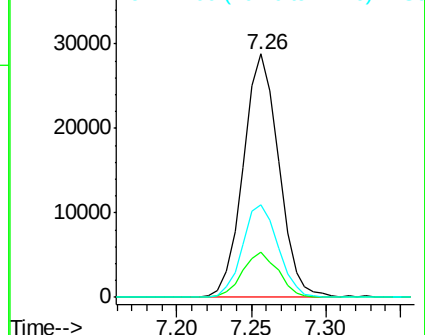
99 100

42 18.6 11.5 17.3#

71 37.9 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: BG020104.D

Acq: 11 Dec 2015 10:58

Tgt Ion: 136 Resp: 94687

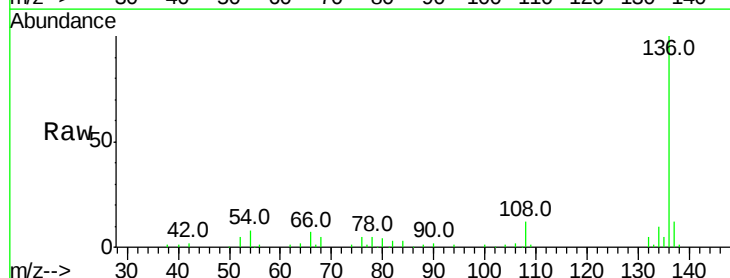
Ion Ratio Lower Upper

136 100

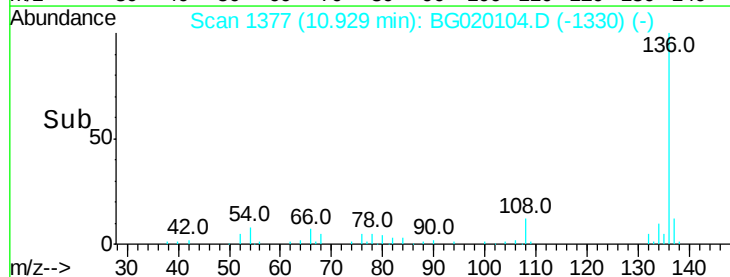
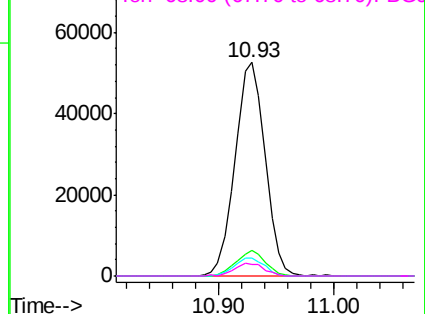
137 12.0 8.6 12.8

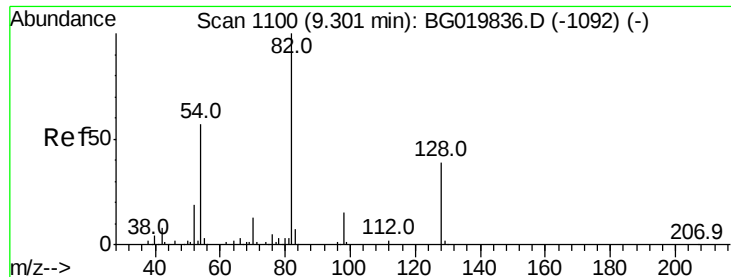
54 8.4 5.4 8.2#

68 5.1 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

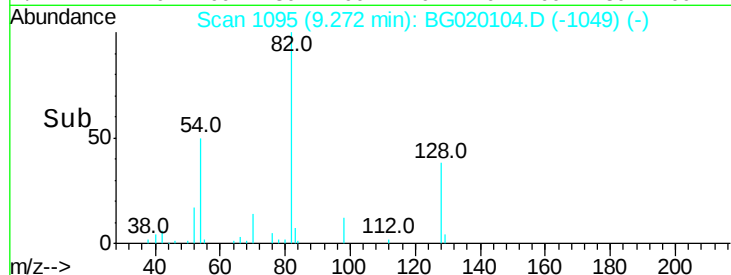
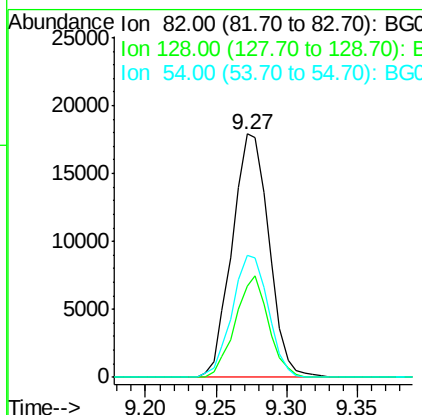
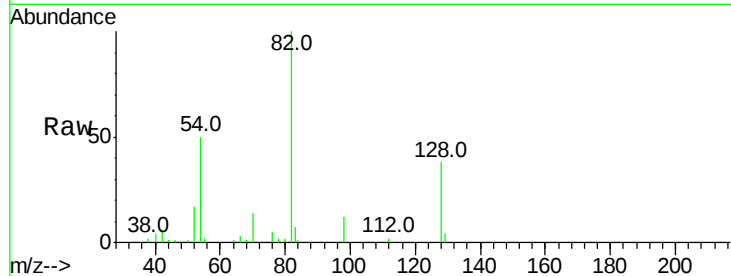




#23
 Nitrobenzene-d5
 Concen: 17.68 ng
 RT: 9.27 min Scan# 1095
 Delta R.T. -0.03 min
 Lab File: BG020104.D
 Acq: 11 Dec 2015 10:58

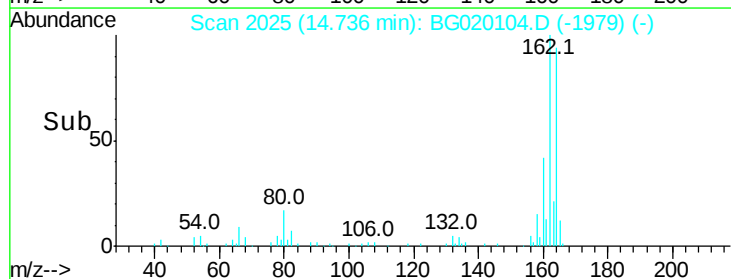
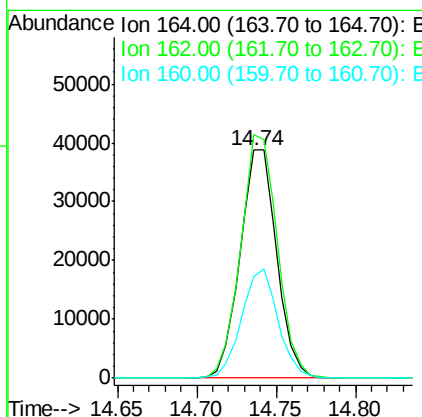
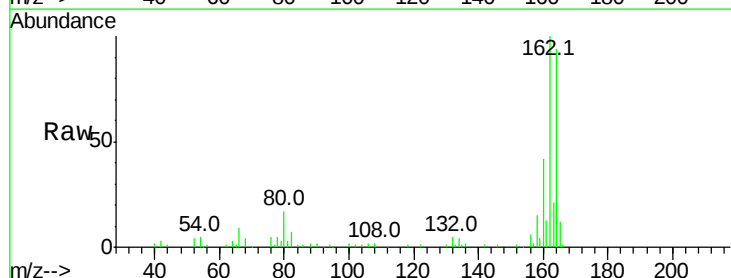
Instrument :
 BNA_G
 ClientSampled :
 S31-15DL

Tot Ion	82	Resp	32807
Ion Ratio	100	Lower	Upper
128	37.5	36.7	55.1
54	50.1	33.8	50.8



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 14.74 min Scan# 2025
 Delta R.T. -0.03 min
 Lab File: BG020104.D
 Acq: 11 Dec 2015 10:58

Tgt Ion	164	Resp	61913
Ion Ratio	100	Lower	Upper
162	106.8	78.8	118.2
160	44.5	36.4	54.6

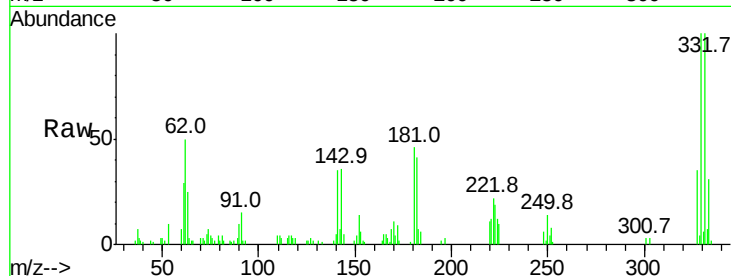




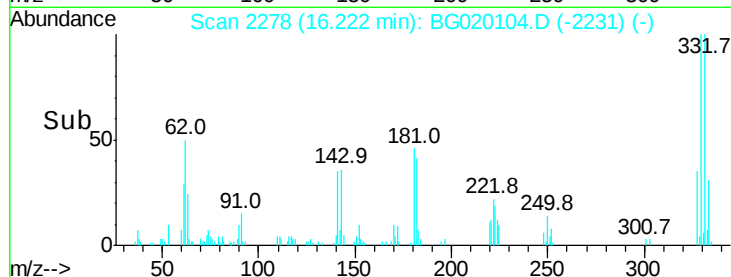
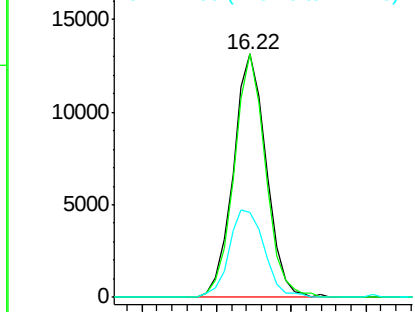
#41
 2,4,6-Tribromophenol
 Concen: 21.31 ng
 RT: 16.22 min Scan# 2278
 Delta R.T. -0.02 min
 Lab File: BG020104.D
 Acq: 11 Dec 2015 10:58

Instrument :
 BNA_G
 ClientSampleId :
 S31-15DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.2	78.1	117.1
141	38.6	28.2	42.2

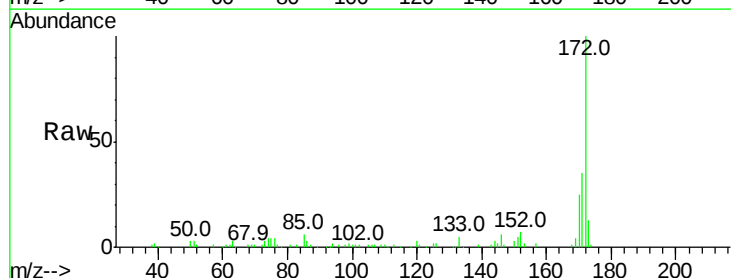


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

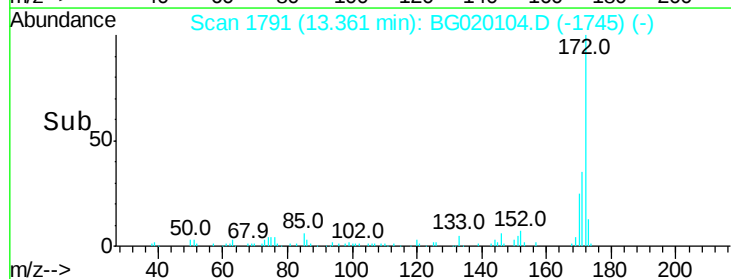
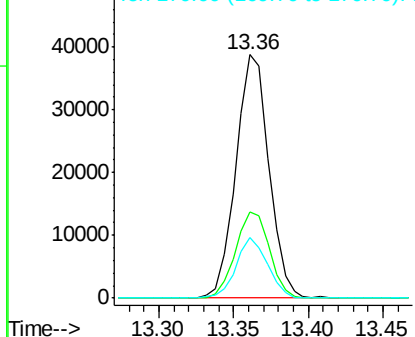


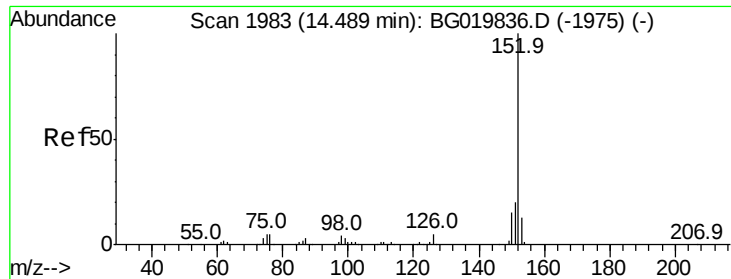
#44
 2-Fluorobiphenyl
 Concen: 13.17 ng
 RT: 13.36 min Scan# 1791
 Delta R.T. -0.03 min
 Lab File: BG020104.D
 Acq: 11 Dec 2015 10:58

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.0	43.6
170	24.7	19.9	29.9



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#48

Acenaphthylene

Concen: 4.43 ng

RT: 14.47 min Scan# 1979

Delta R.T. -0.02 min

Lab File: BG020104.D

Acq: 11 Dec 2015 10:58

Instrument :

BNA_G

ClientSampleId :

S31-15DL

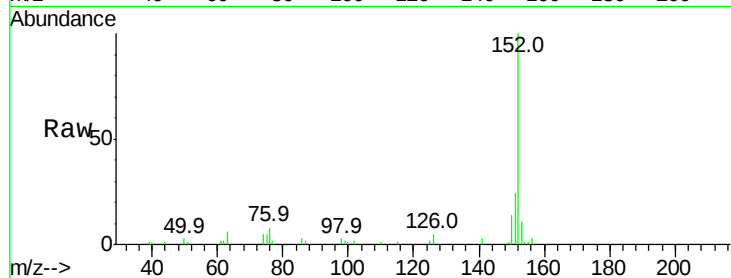
Tot Ion:152 Resp: 29529

Ion Ratio Lower Upper

152 100

151 23.8 17.0 25.4

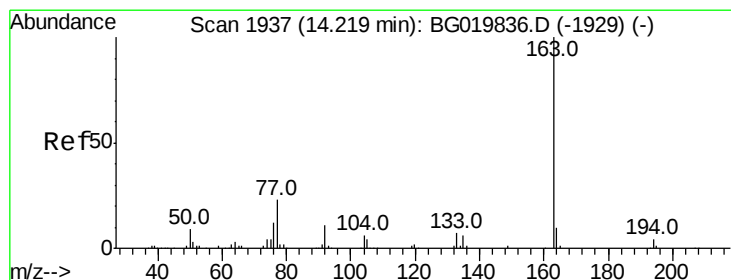
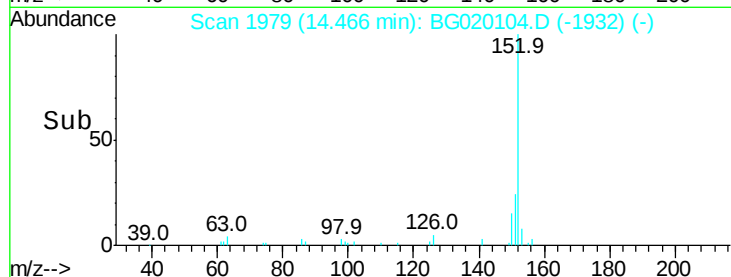
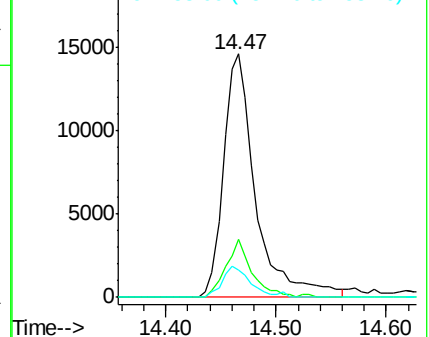
153 11.2 10.4 15.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 4.59 ng

RT: 14.18 min Scan# 1931

Delta R.T. -0.04 min

Lab File: BG020104.D

Acq: 11 Dec 2015 10:58

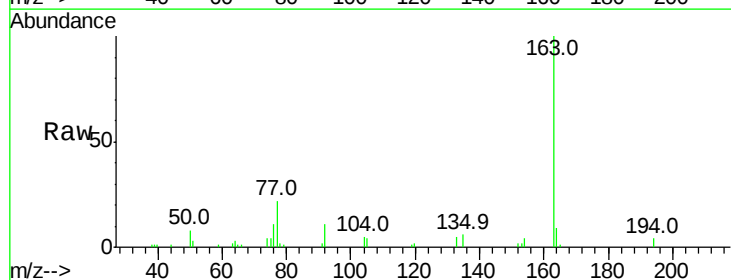
Tgt Ion:163 Resp: 25572

Ion Ratio Lower Upper

163 100

194 4.3 3.1 4.7

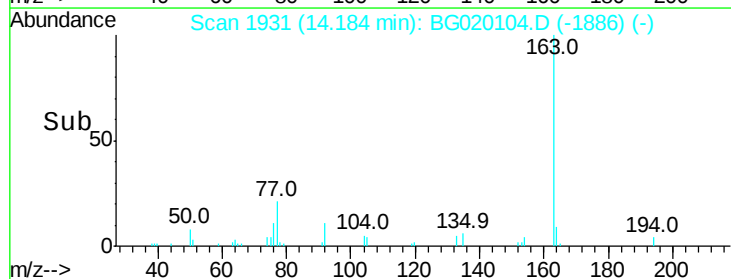
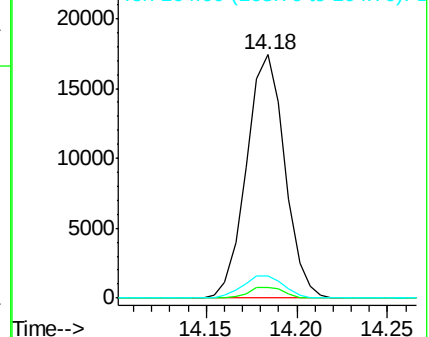
164 9.1 8.8 13.2

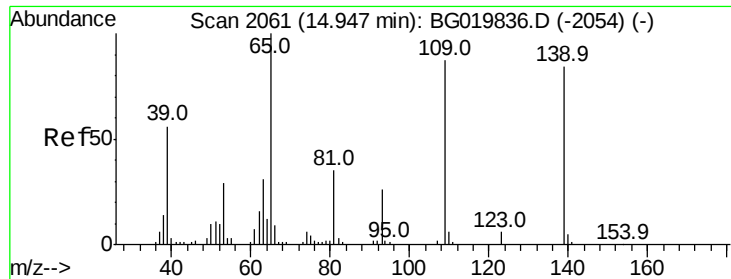


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#55

4-Nitrophenol

Concen: 3.87 ng

RT: 15.14 min Scan# 2093

Delta R.T. 0.19 min

Lab File: BG020104.D

Acq: 11 Dec 2015 10:58

Instrument :

BNA_G

ClientSampleId :

S31-15DL

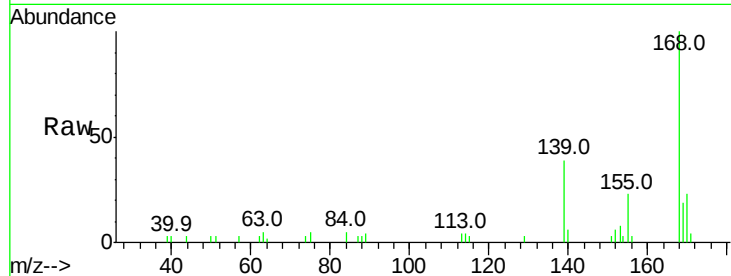
Tot Ion:139 Resp: 3667

Ion Ratio Lower Upper

139 100

109 0.0 43.2 83.2#

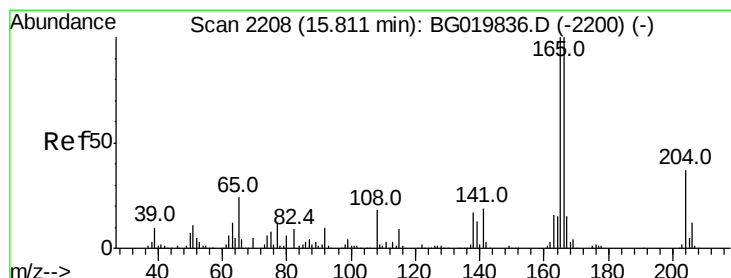
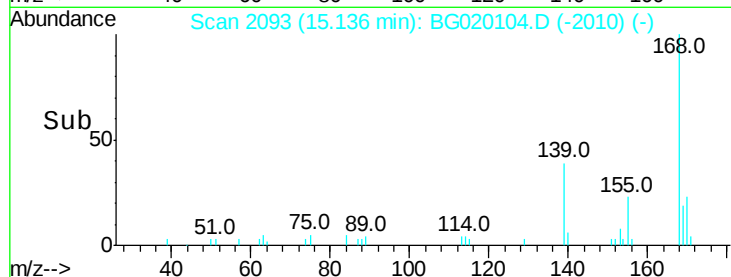
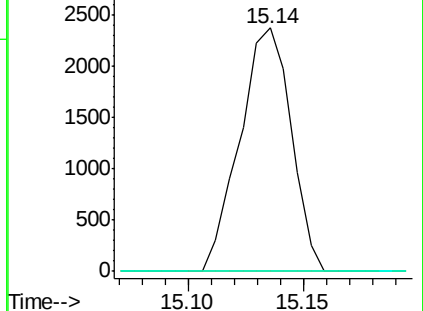
65 0.0 67.8 107.8#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): B



#57

Fluorene

Concen: 3.33 ng

RT: 15.78 min Scan# 2203

Delta R.T. -0.03 min

Lab File: BG020104.D

Acq: 11 Dec 2015 10:58

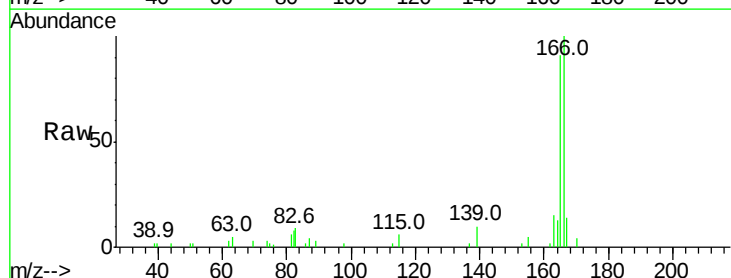
Tgt Ion:166 Resp: 17957

Ion Ratio Lower Upper

166 100

165 91.0 80.0 120.0

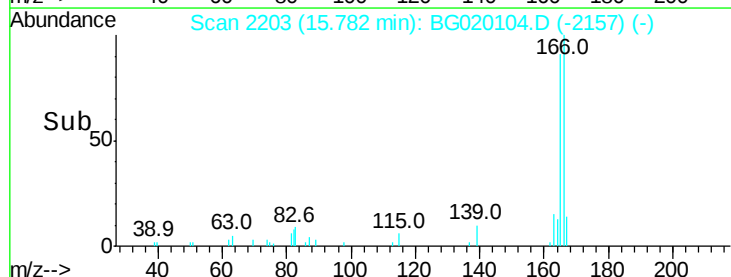
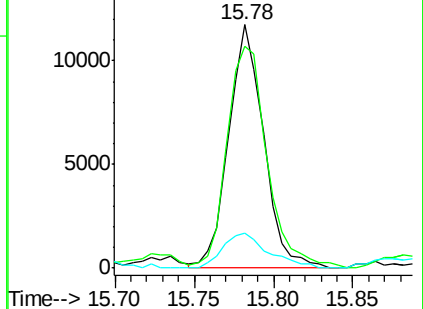
167 14.4 11.1 16.7

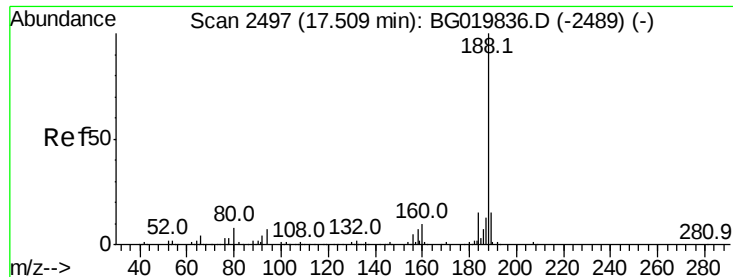


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

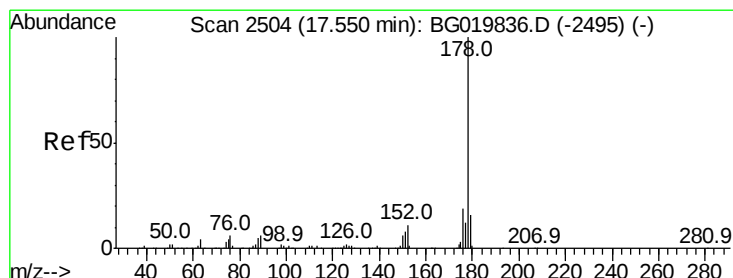
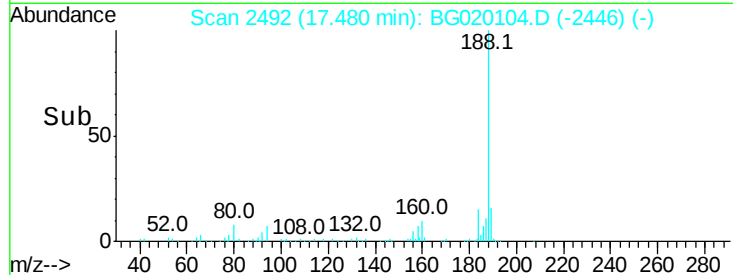
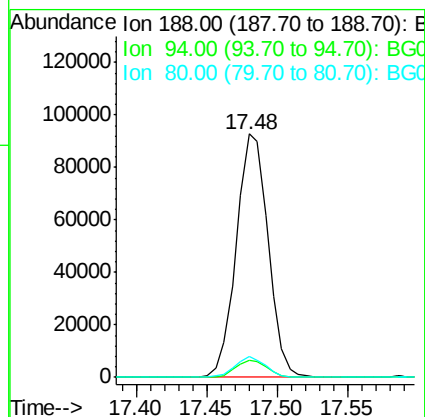
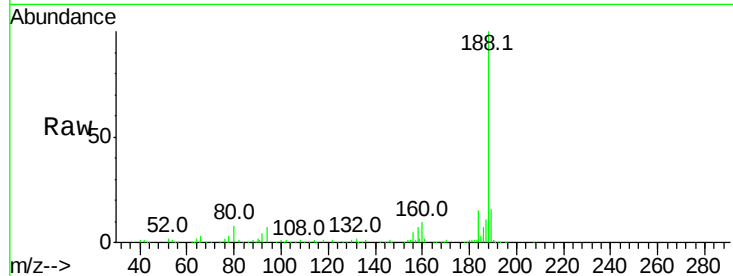




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.48 min Scan# 2492
Delta R.T. -0.03 min
Lab File: BG020104.D
Acq: 11 Dec 2015 10:58

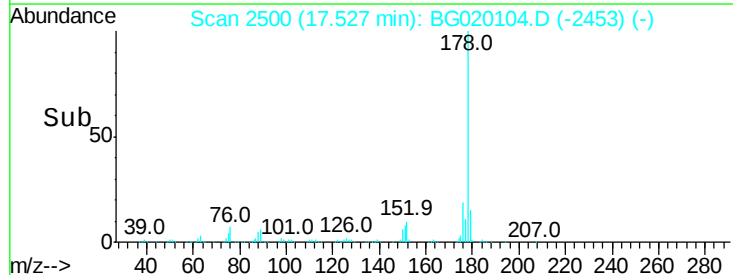
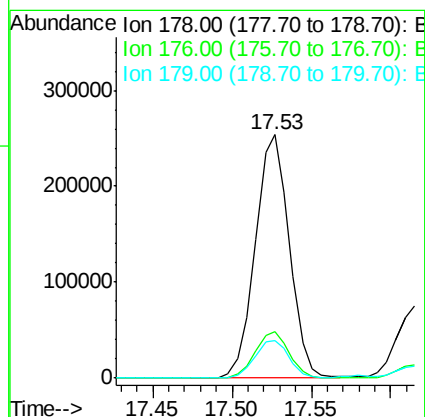
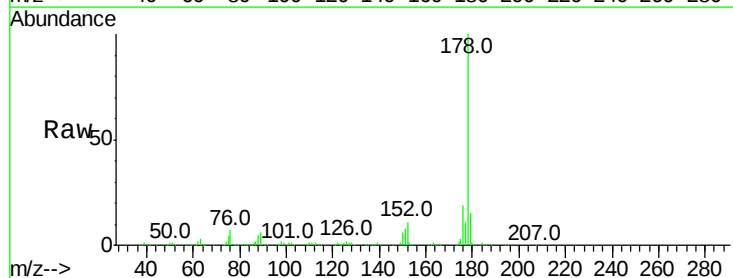
Instrument :
BNA_G
ClientSampleId :
S31-15DL

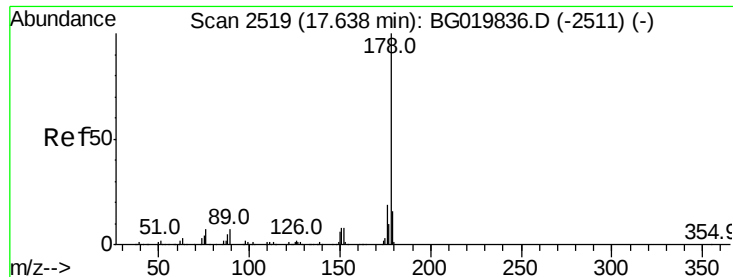
Tot Ion:188 Resp: 145799
Ion Ratio Lower Upper
188 100
94 6.9 7.7 11.5#
80 8.4 7.8 11.8



#70
Phenanthrene
Concen: 45.91 ng
RT: 17.53 min Scan# 2500
Delta R.T. -0.02 min
Lab File: BG020104.D
Acq: 11 Dec 2015 10:58

Tgt Ion:178 Resp: 378737
Ion Ratio Lower Upper
178 100
176 19.1 16.7 25.1
179 15.3 13.9 20.9

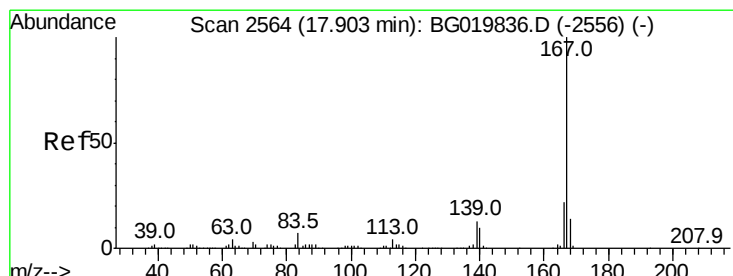
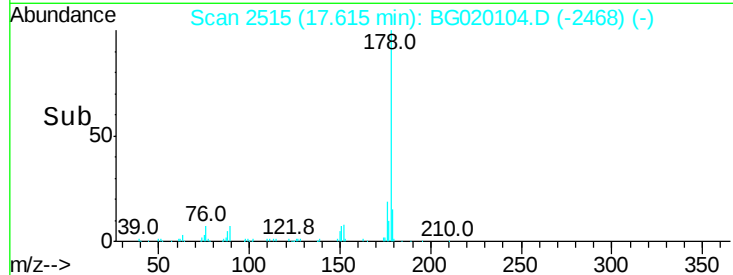
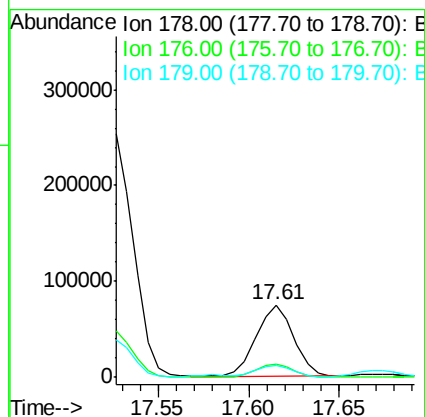
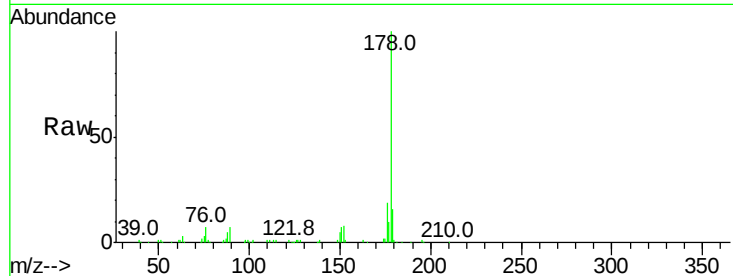




#71
 Anthracene
 Concen: 12.87 ng
 RT: 17.61 min Scan# 2515
 Delta R.T. -0.02 min
 Lab File: BG020104.D
 Acq: 11 Dec 2015 10:58

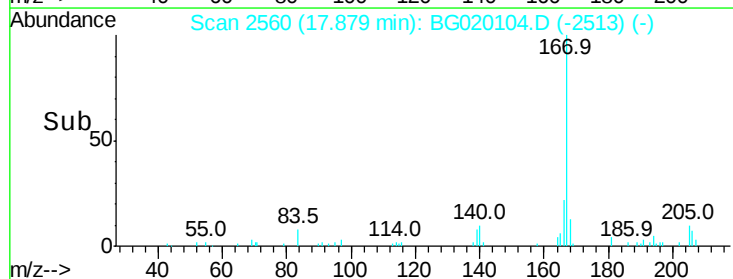
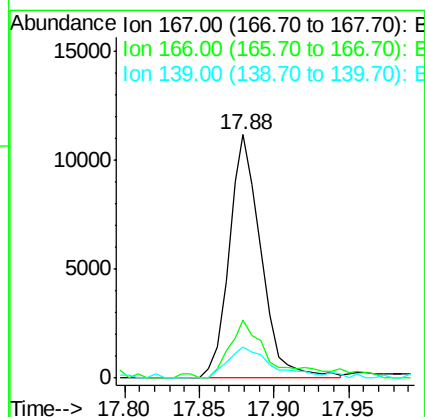
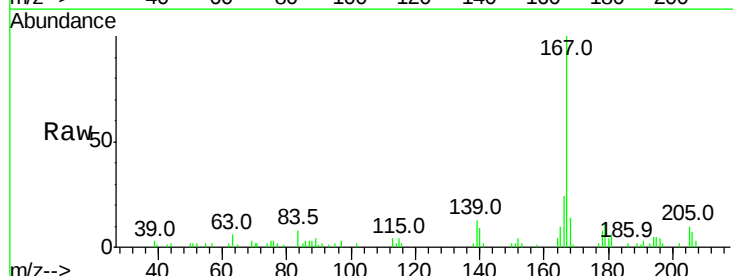
Instrument :
 BNA_G
 ClientSampleId :
 S31-15DL

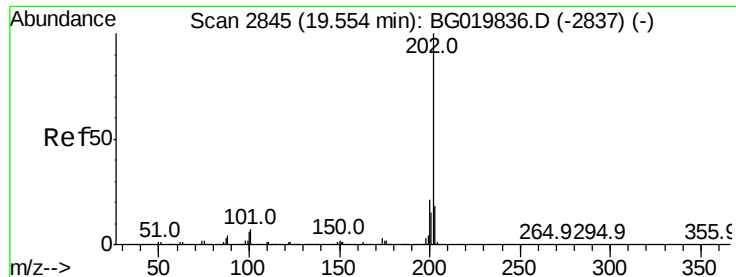
Tot Ion	Ratio	Lower	Upper
178	100		
176	18.8	16.8	25.2
179	15.6	13.9	20.9



#72
 Carbazole
 Concen: 2.25 ng
 RT: 17.88 min Scan# 2560
 Delta R.T. -0.02 min
 Lab File: BG020104.D
 Acq: 11 Dec 2015 10:58

Tgt Ion	Ratio	Lower	Upper
167	100		
166	23.8	19.0	28.6
139	12.8	10.2	15.4





#74

Fluoranthene

Concen: 94.59 ng

RT: 19.53 min Scan# 2841

Delta R.T. -0.02 min

Lab File: BG020104.D

Acq: 11 Dec 2015 10:58

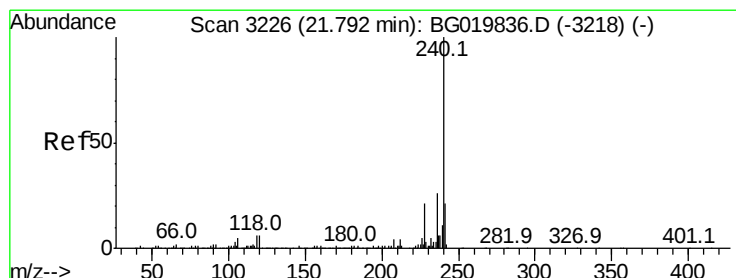
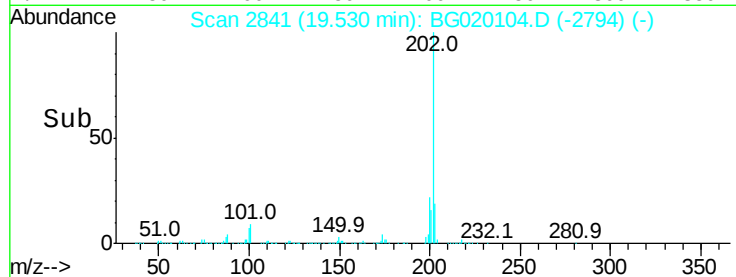
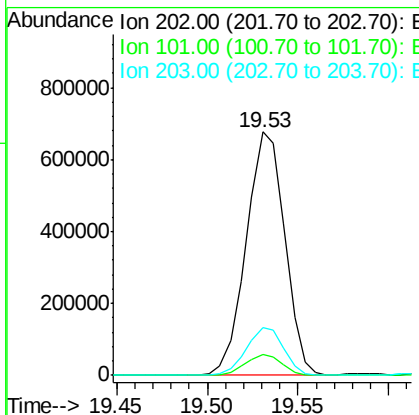
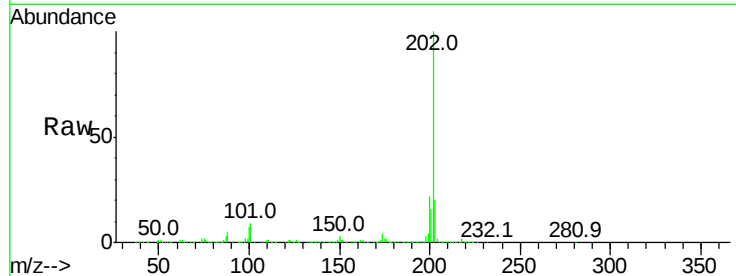
Instrument :

BNA_G

ClientSampleId :

S31-15DL

Tot Ion:	202	Resp:	997991
Ion Ratio	Lower	Upper	
202	100		
101	8.7	0.0	32.4
203	19.7	0.0	39.5



#75

Chrysene-d12

Concen: 20.00 ng

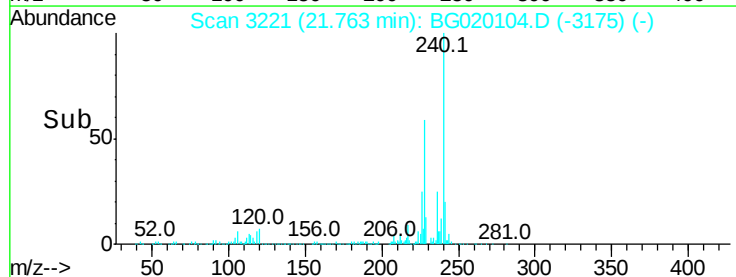
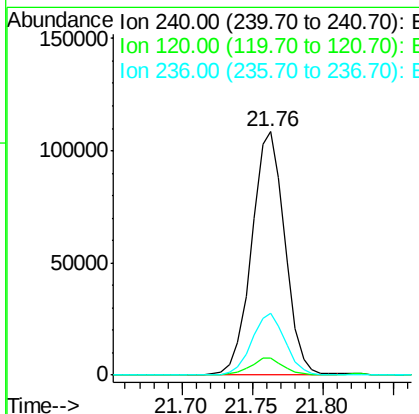
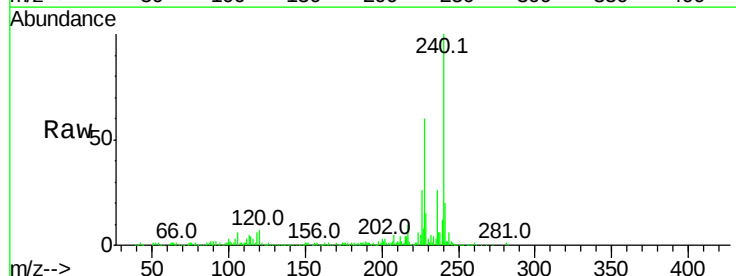
RT: 21.76 min Scan# 3221

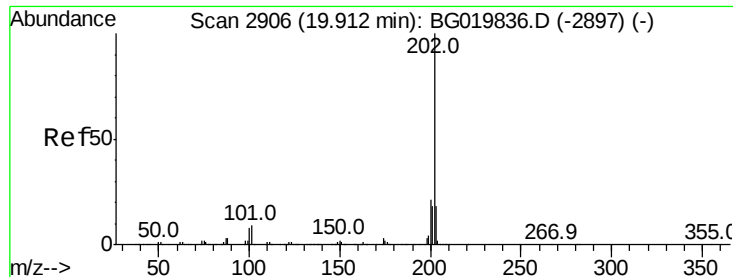
Delta R.T. -0.03 min

Lab File: BG020104.D

Acq: 11 Dec 2015 10:58

Tgt Ion:	240	Resp:	177662
Ion Ratio	Lower	Upper	
240	100		
120	6.9	7.4	11.0#
236	25.7	20.7	31.1





#77

Pvrene

Concen: 87.34 ng

RT: 19.89 min Scan# 2903

Delta R.T. -0.02 min

Lab File: BG020104.D

Acq: 11 Dec 2015 10:58

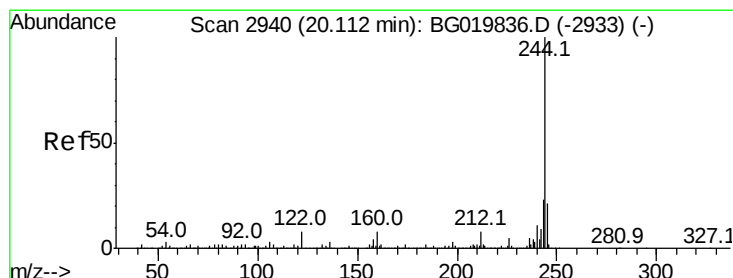
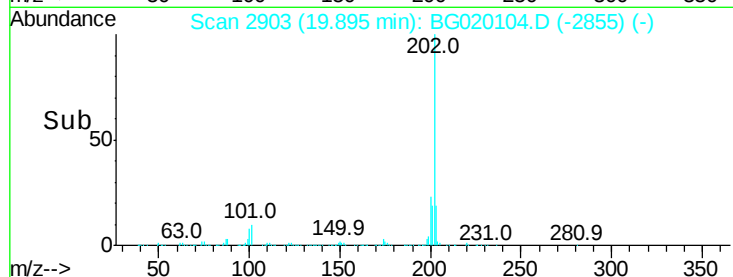
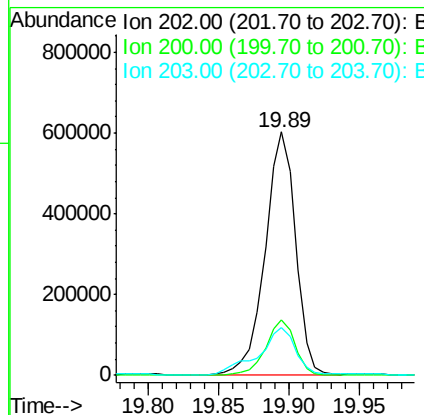
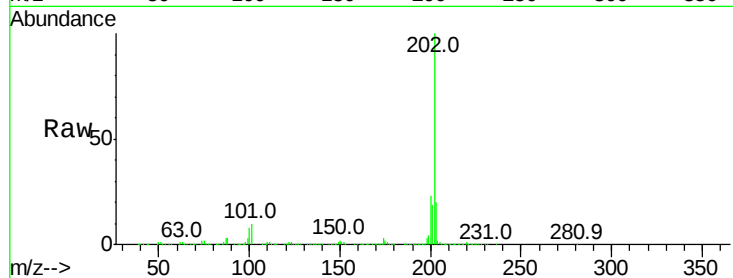
Instrument :

BNA_G

ClientSampleId :

S31-15DL

Tot Ion:	202	Resp:	912912
Ion	Ratio	Lower	Upper
202	100		
200	22.5	19.4	29.0
203	19.7	15.5	23.3



#78

Terphenyl-d14

Concen: 13.12 ng

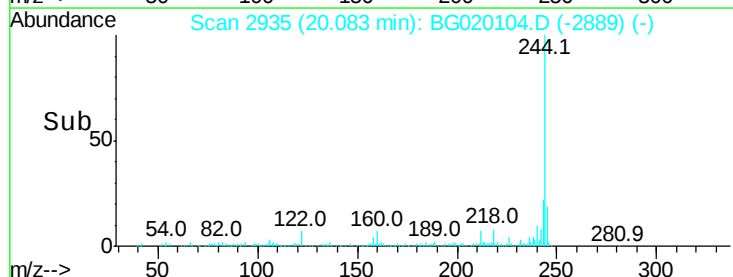
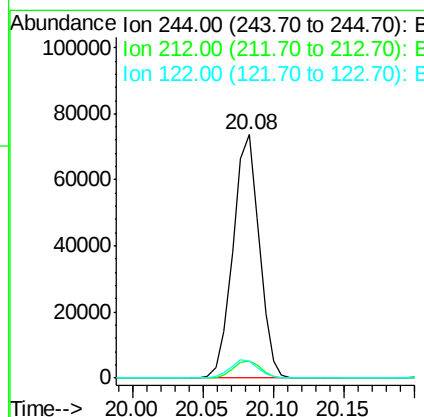
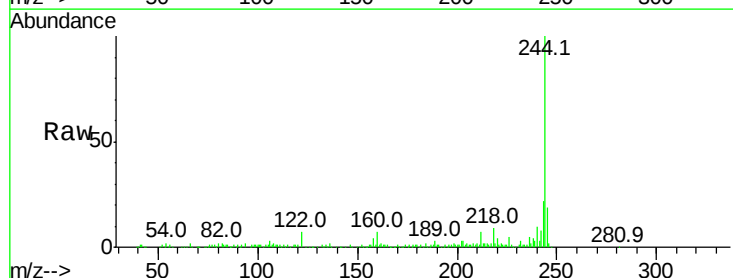
RT: 20.08 min Scan# 2935

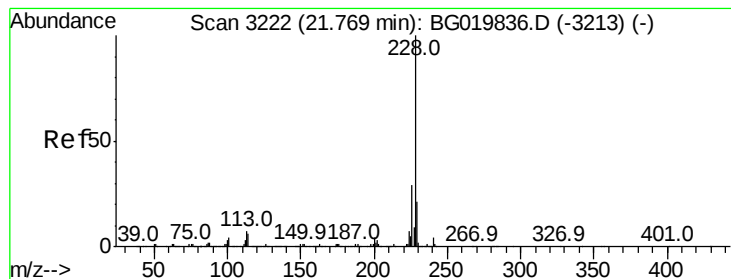
Delta R.T. -0.03 min

Lab File: BG020104.D

Acq: 11 Dec 2015 10:58

Tgt Ion:	244	Resp:	95555
Ion	Ratio	Lower	Upper
244	100		
212	6.8	6.9	10.3#
122	6.9	10.2	15.2#





#80

Benzo(a)anthracene

Concen: 58.40 ng

RT: 21.74 min Scan# 3217

Delta R.T. -0.03 min

Lab File: BG020104.D

Acq: 11 Dec 2015 10:58

Instrument :

BNA_G

ClientSampleId :

S31-15DL

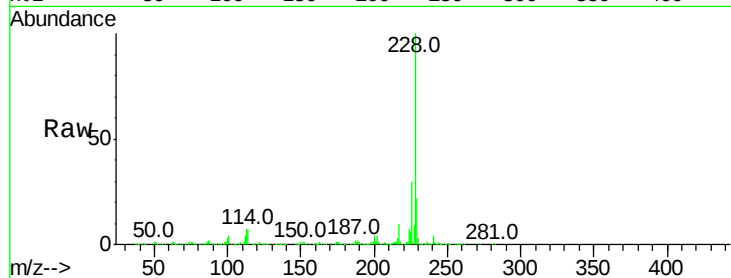
Tot Ion:228 Resp: 635110

Ion	Ratio	Lower	Upper
228	100		
226	30.3	23.4	35.0
229	21.9	16.6	25.0

228 100

226 30.3 23.4 35.0

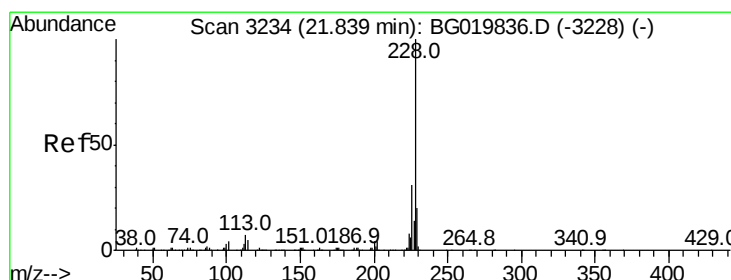
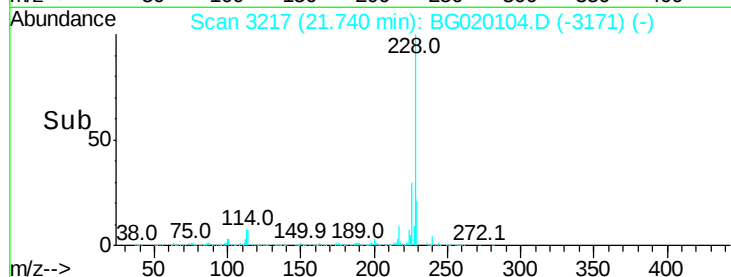
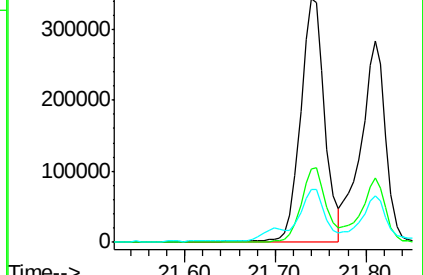
229 21.9 16.6 25.0



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: 51.92 ng

RT: 21.81 min Scan# 3229

Delta R.T. -0.03 min

Lab File: BG020104.D

Acq: 11 Dec 2015 10:58

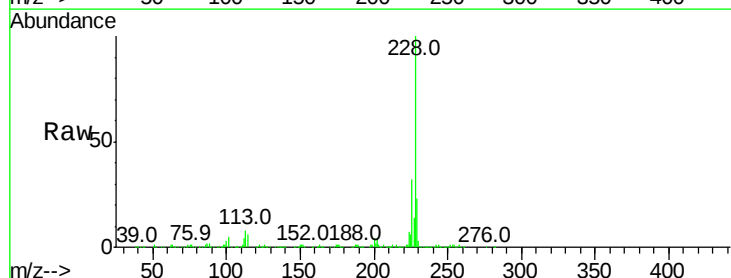
Tgt Ion:228 Resp: 536148

Ion	Ratio	Lower	Upper
228	100		
226	32.0	26.7	40.1
229	23.1	17.0	25.6

228 100

226 32.0 26.7 40.1

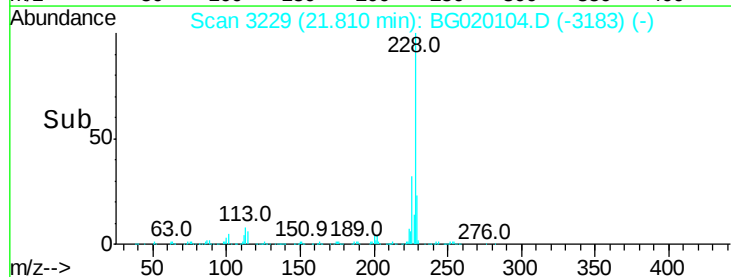
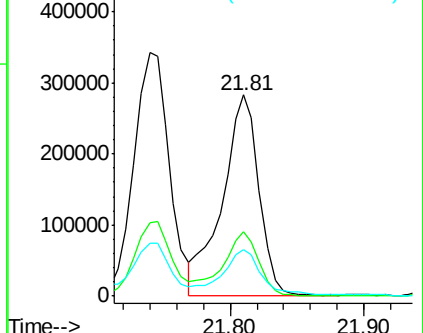
229 23.1 17.0 25.6

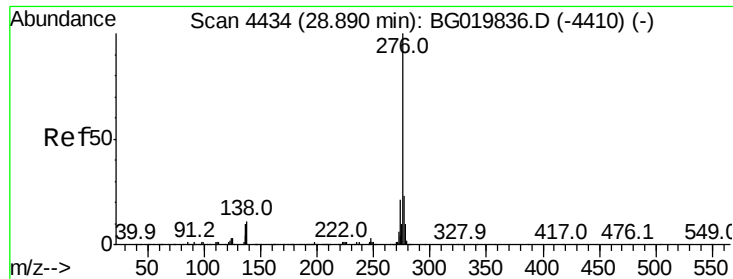


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

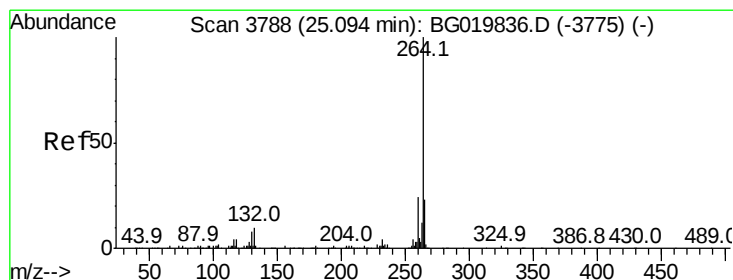
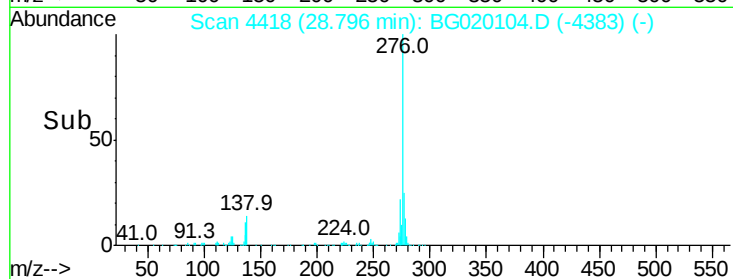
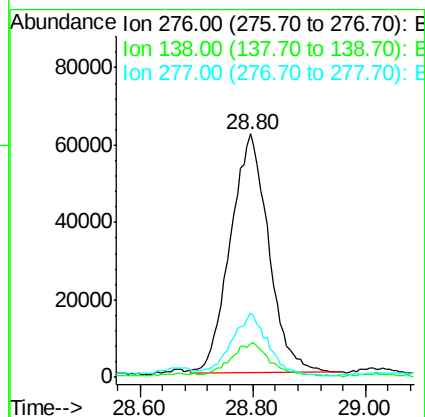
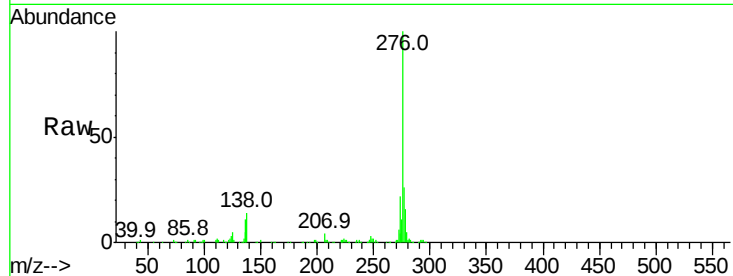




#85
Indeno(1,2,3-cd)pyrene
Concen: 25.58 ng
RT: 28.80 min Scan# 4418
Delta R.T. -0.09 min
Lab File: BG020104.D
Acq: 11 Dec 2015 10:58

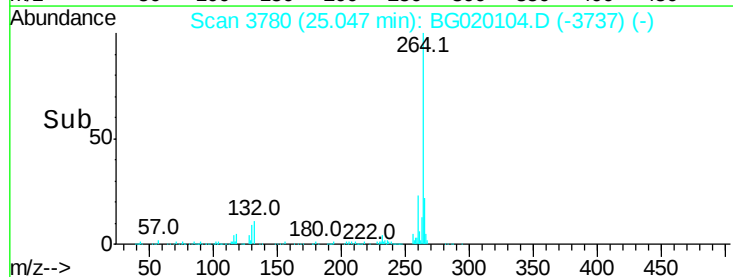
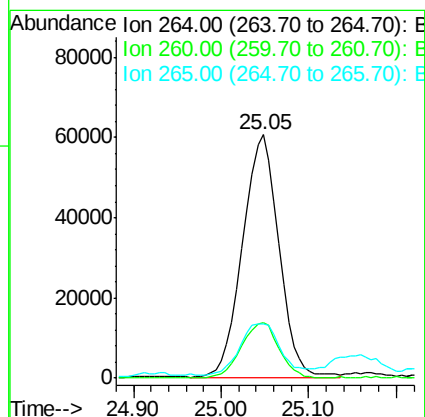
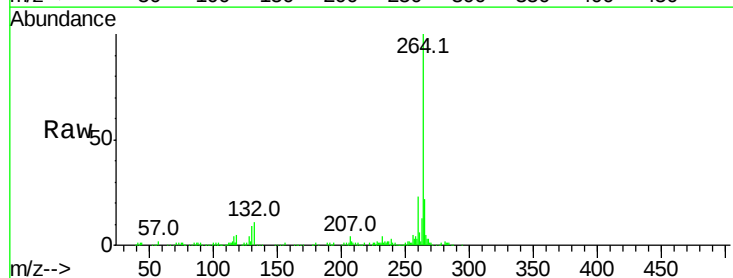
Instrument :
BNA_G
ClientSampleId :
S31-15DL

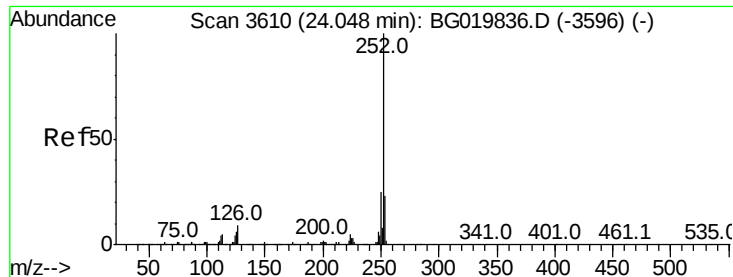
Tot Ion	Ratio	Lower	Upper
276	100		
138	13.9	0.0	0.0#
277	25.1	0.0	0.0#



#86
Perylene-d12
Concen: 20.00 ng
RT: 25.05 min Scan# 3780
Delta R.T. -0.05 min
Lab File: BG020104.D
Acq: 11 Dec 2015 10:58

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.8	18.5	27.7
265	22.3	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 60.95 ng

RT: 24.01 min Scan# 3603

Delta R.T. -0.04 min

Lab File: BG020104.D

Acq: 11 Dec 2015 10:58

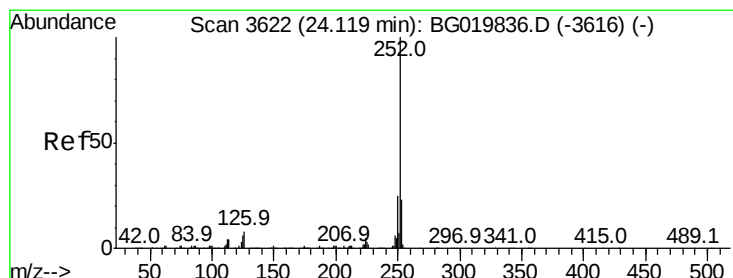
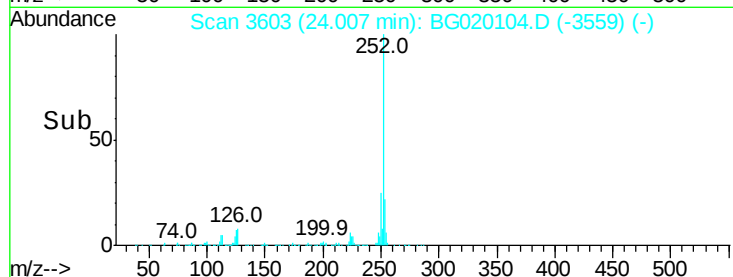
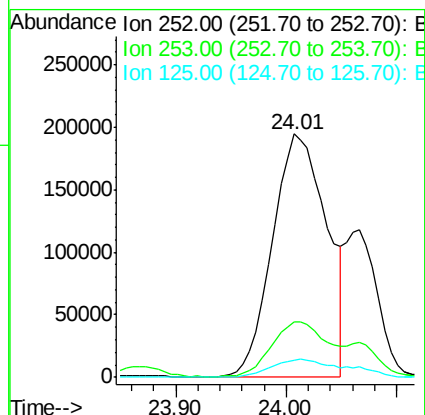
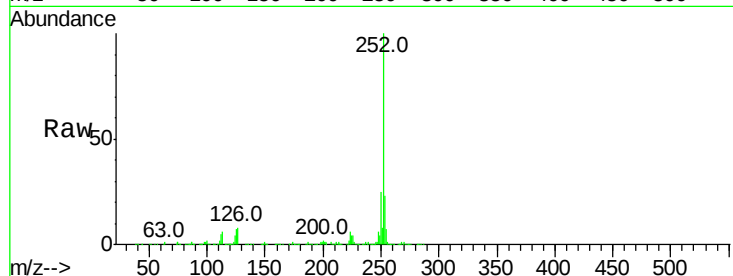
Instrument :

BNA_G

ClientSampleId :

S31-15DL

Tot Ion:252	Resp:	659675
Ion Ratio	Lower	Upper
252	100	
253	22.7	19.1 28.7
125	7.1	8.9 13.3#



#88

Benzo(k)fluoranthene

Concen: 61.55 ng

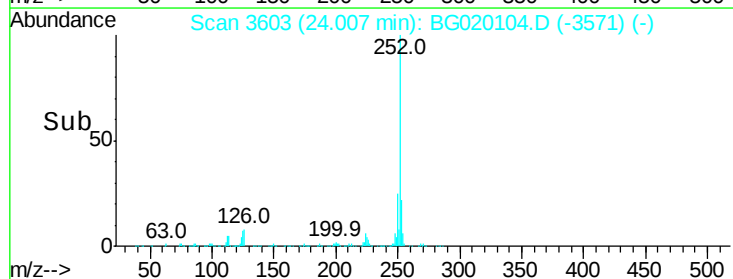
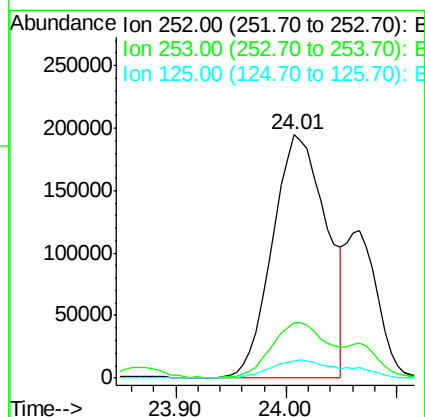
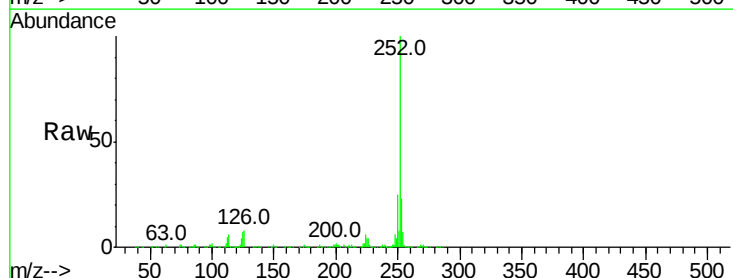
RT: 24.01 min Scan# 3603

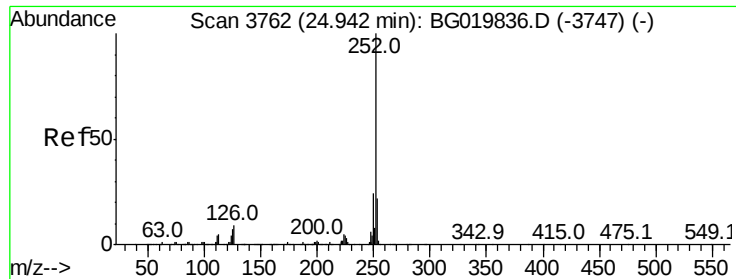
Delta R.T. -0.11 min

Lab File: BG020104.D

Acq: 11 Dec 2015 10:58

Tgt Ion:252	Resp:	659675
Ion Ratio	Lower	Upper
252	100	
253	22.7	19.0 28.4
125	7.1	8.9 13.3#





#89

Benzo(a)pyrene

Concen: 29.74 ng

RT: 24.74 min Scan# 3728

Delta R.T. -0.20 min

Lab File: BG020104.D

Acq: 11 Dec 2015 10:58

Instrument :

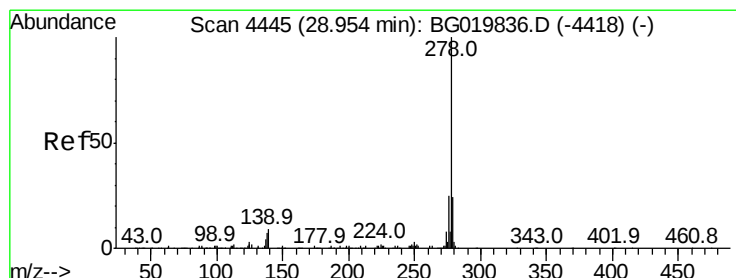
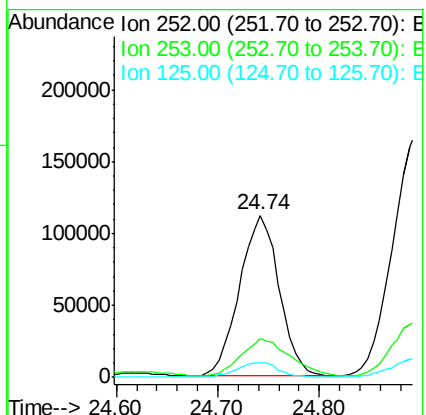
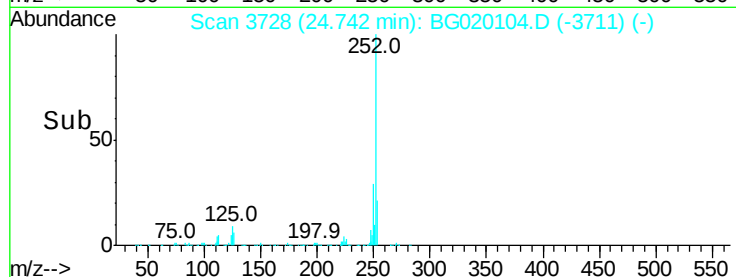
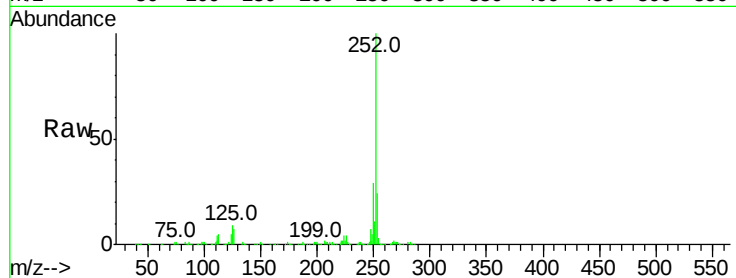
BNA_G

ClientSampleId :

S31-15DL

Tot Ion:252 Resp: 305547

Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.7	28.1
125	9.1	9.1	13.7



#90

Dibenzo(a,h)anthracene

Concen: 8.24 ng

RT: 28.84 min Scan# 4426

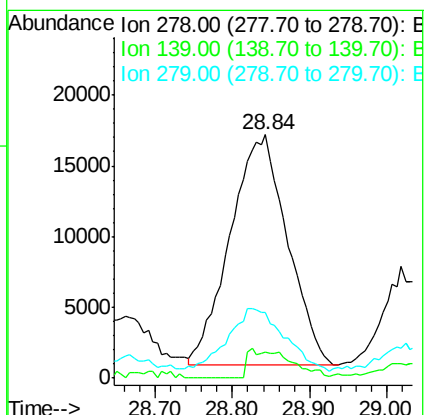
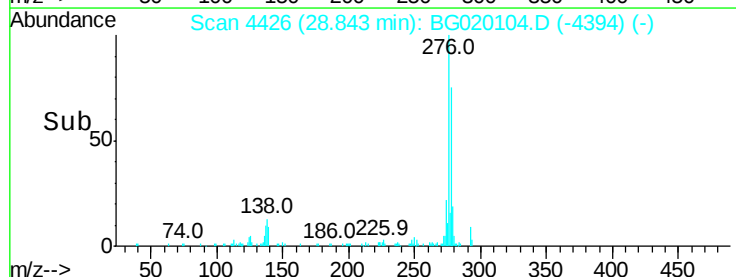
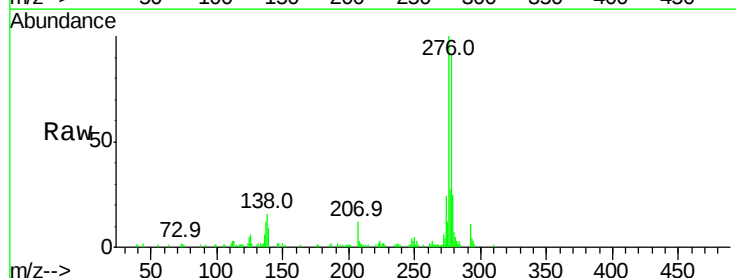
Delta R.T. -0.11 min

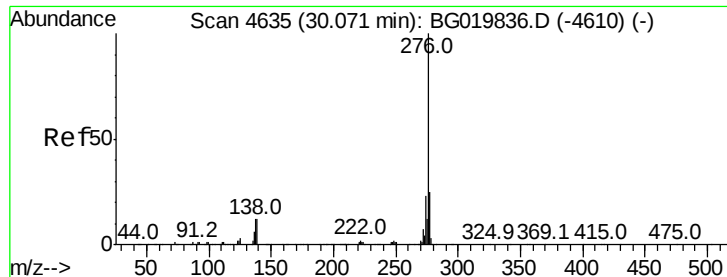
Lab File: BG020104.D

Acq: 11 Dec 2015 10:58

Tgt Ion:278 Resp: 83698

Ion	Ratio	Lower	Upper
278	100		
139	10.4	13.8	20.6#
279	27.1	19.4	29.0





#91

Benzo(a,h,i)perylene

Concen: 26.93 ng

RT: 29.97 min Scan# 4618

Delta R.T. -0.10 min

Lab File: BG020104.D

Acq: 11 Dec 2015 10:58

Instrument :

BNA_G

ClientSampleId :

S31-15DL

Tot Ion: 276 Resp: 268457

Ion Ratio Lower Upper

276 100

277 23.1 18.4 27.6

138 14.1 17.4 26.0#

