

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121515\
 Data File : BG020156.D
 Acq On : 14 Dec 2015 15:40
 Operator : UM/SJ
 Sample : G4767-02
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9N25

Quant Time: Dec 15 11:22:31 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Dec 15 03:46:07 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.10	152	20863	20.00	ng/ul	0.00
18) Naphthalene-d8	10.92	136	97220	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.73	164	70812	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.47	188	172969	20.00	ng/ul	0.00
78) Chrysene-d12	21.74	240	185430	20.00	ng/ul	0.00
86) Perylene-d12	25.01	264	177971	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.47	96	1203	3.18	ng/uL	0.00
5) Phenol-d5	7.25	99	37507	20.39	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.42	67	22726	20.70	ng/ul	0.00
9) 2-Chlorophenol-d4	7.63	132	28649	21.41	ng/ul	0.00
13) 4-Methylphenol-d8	8.80	113	34696	22.05	ng/ul	0.00
19) Nitrobenzene-d5	9.27	128	16610	21.92	ng/ul	0.00
22) 2-Nitrophenol-d4	9.99	143	18654	22.12	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.53	165	36796	21.54	ng/ul	0.00
29) 4-Chloroaniline-d4	11.05	131	42808	22.31	ng/ul	0.00
44) Dimethylphthalate-d6	14.13	166	145435	25.39	ng/ul	0.00
47) Acenaphthylene-d8	14.43	160	166663	25.01	ng/ul	0.00
52) 4-Nitrophenol-d4	14.91	143	25041	24.38	ng/ul	0.00
58) Fluorene-d10	15.72	176	132439	25.49	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.82	200	19372	18.89	ng/ul	0.00
71) Anthracene-d10	17.57	188	234594	29.43	ng/ul	0.00
79) Pyrene-d10	19.85	212	277245	32.08	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.79	264	289774	32.64	ng/ul	0.00

Target Compounds

						Qvalue
4) Benzaldehyde	7.23	77	34738	29.17	ng/ul	92
10) 2-Chlorophenol	7.66	128	4298	3.07	ng/ul#	84
23) 2-Nitrophenol	10.02	139	23487	25.97	ng/ul	95
28) Naphthalene	10.96	128	27369	5.39	ng/ul	98
31) Hexachlorobutadiene	11.25	225	15859	12.13	ng/ul	88
33) 4-Chloro-3-methylphenol	12.17	107	22069	10.58	ng/ul	94
37) 1,2,4,5-Tetrachlorobenzene	12.93	216	14672	5.52	ng/ul#	97
39) 2,4,6-Trichlorophenol	13.16	196	21586	12.66	ng/ul	98
41) 1,1'-Biphenyl	13.56	154	96253	18.02	ng/ul	96
45) Dimethylphthalate	14.17	163	150047	25.65	ng/ul	98
46) 2,6-Dinitrotoluene	14.30	165	15231	12.59	ng/ul	95
53) 4-Nitrophenol	14.92	109	30242	30.61	ng/ul	90
54) Dibenzofuran	15.12	168	54443	7.68	ng/ul	99
64) 4,6-Dinitro-2-methylphenol	15.84	198	13913	12.64	ng/ul#	98
67) Hexachlorobenzene	16.78	284	16355	7.50	ng/ul#	90
69) Pentachlorophenol	17.12	266	20480	15.58	ng/ul	95
70) Phenanthrene	17.52	178	209898	22.19	ng/ul	99
72) Anthracene	17.60	178	89046	9.28	ng/ul	99
76) Di-n-butylphthalate	18.42	149	141107	15.06	ng/ul	99
77) Fluoranthene	19.51	202	214465	19.40	ng/ul	100
80) Pyrene	19.88	202	224796	20.03	ng/ul	99
84) Bis(2-ethylhexyl)phthalate	21.62	149	117140	21.01	ng/ul	99
85) Chrysene	21.79	228	176343	17.31	ng/ul	99

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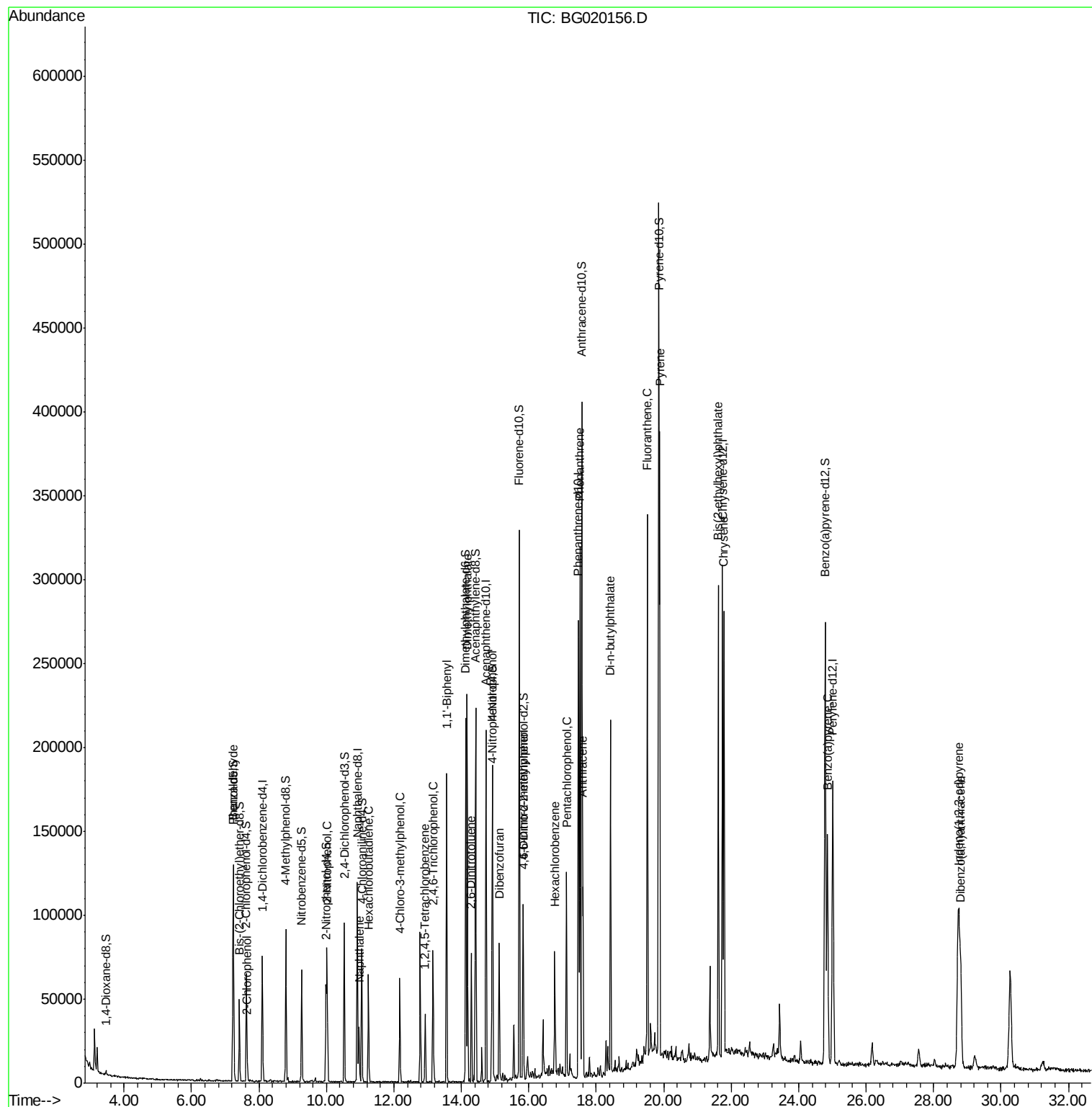
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) Benzo(a)pyrene	24.86	252	153487	15.12	ng/ul	98
92) Indeno(1,2,3-cd)pyrene	28.73	276	203846	16.86	ng/ul	97
93) Dibenzo(a,h)anthracene	28.80	278	107647	10.72	ng/ul	98

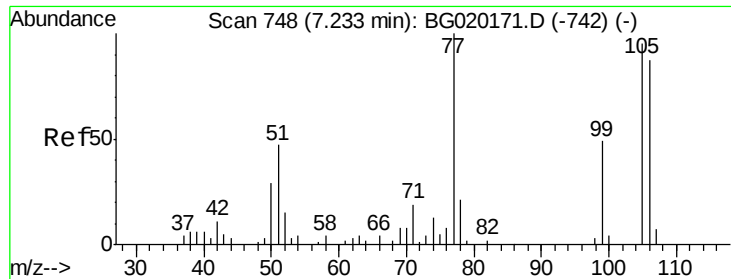
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#4

Benzaldehyde

Concen: 29.17 ng/ul

RT: 7.23 min Scan# 748

Delta R.T. 0.00 min

Lab File: BG020156.D

Acq: 14 Dec 2015 15:40

Instrument :

BNA_G

ClientSampleId :

D9N25

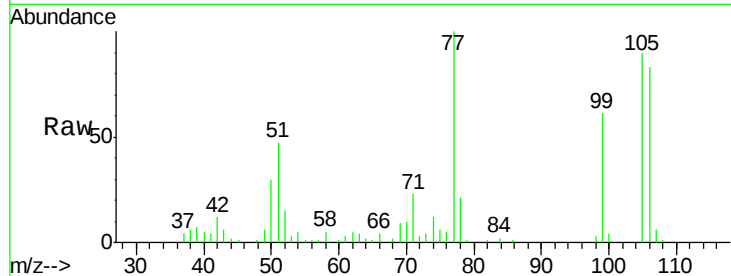
Tgt Ion: 77 Resp: 34738

Ion Ratio Lower Upper

77 100

105 90.3 77.8 116.6

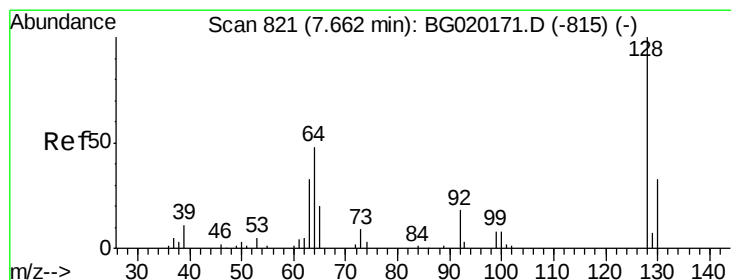
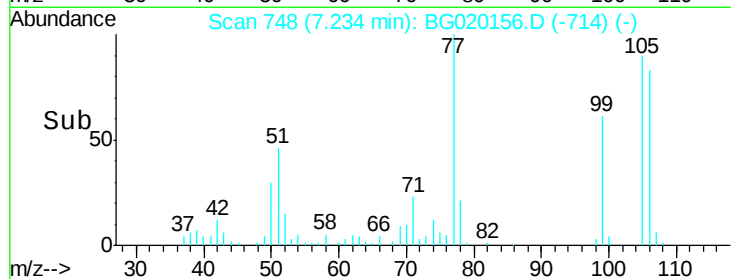
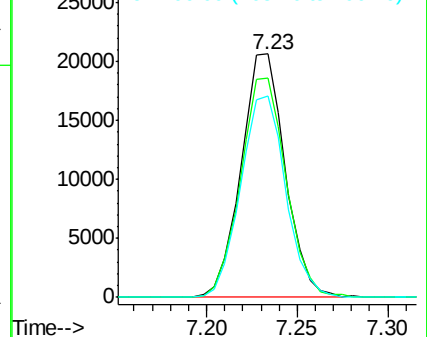
106 82.7 72.6 109.0



Abundance Ion 77.00 (76.70 to 77.70): BGC

Ion 105.00 (104.70 to 105.70): BGC

Ion 106.00 (105.70 to 106.70): BGC



#10

2-Chlorophenol

Concen: 3.07 ng/ul

RT: 7.66 min Scan# 820

Delta R.T. -0.00 min

Lab File: BG020156.D

Acq: 14 Dec 2015 15:40

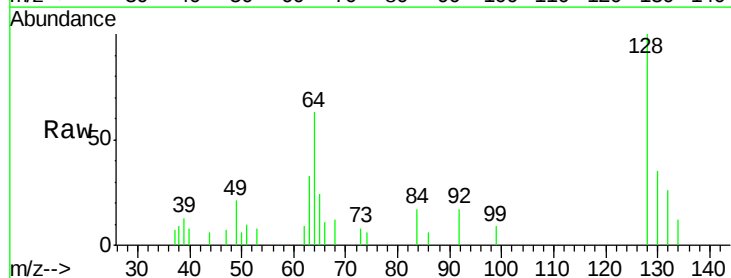
Tgt Ion: 128 Resp: 4298

Ion Ratio Lower Upper

128 100

64 63.3 39.4 59.0#

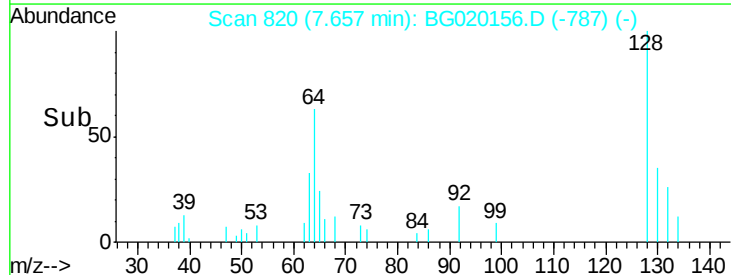
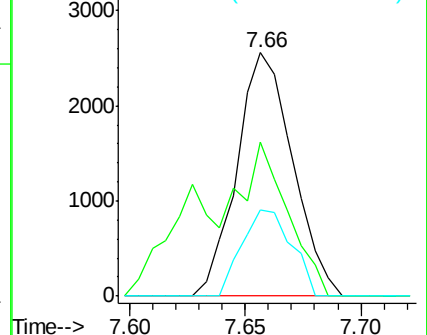
130 35.3 24.6 36.8

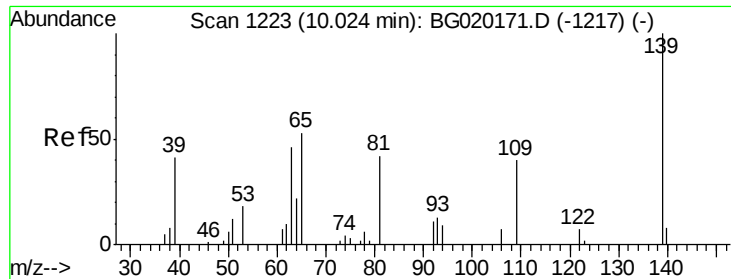


Abundance Ion 128.00 (127.70 to 128.70): BGC

Ion 64.00 (63.70 to 64.70): BGC

Ion 130.00 (129.70 to 130.70): BGC





#23

2-Nitrophenol

Concen: 25.97 ng/ul

RT: 10.02 min Scan# 1223

Delta R.T. 0.00 min

Lab File: BG020156.D

Acq: 14 Dec 2015 15:40

Instrument :

BNA_G

ClientSampleId :

D9N25

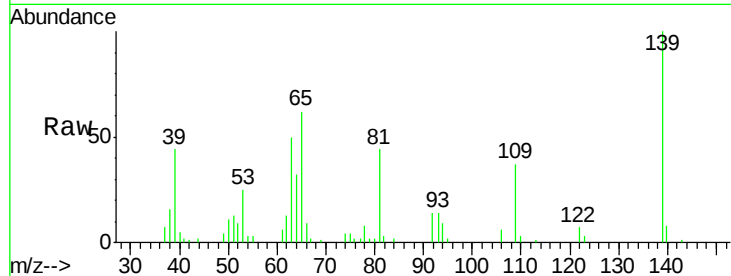
Tgt Ion:139 Resp: 23487

Ion Ratio Lower Upper

139 100

65 62.2 45.1 67.7

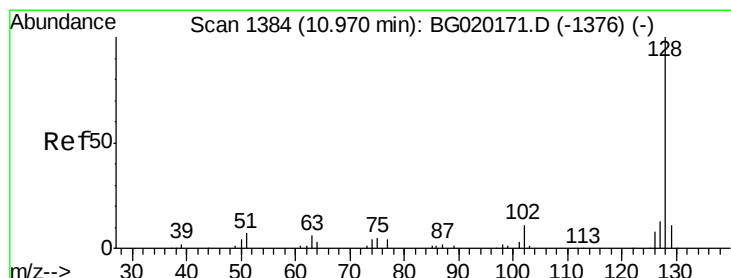
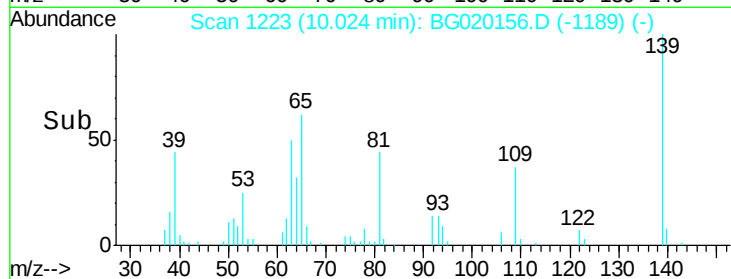
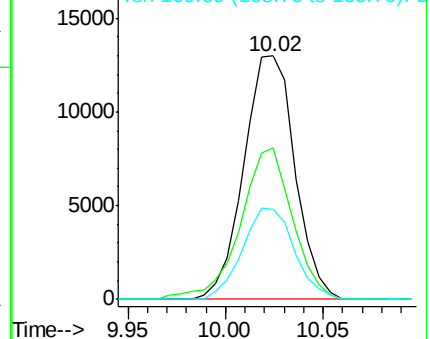
109 37.2 29.6 44.4



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 65.00 (64.70 to 65.70): BG

Ion 109.00 (108.70 to 109.70): E



#28

Naphthalene

Concen: 5.39 ng/ul

RT: 10.96 min Scan# 1383

Delta R.T. -0.00 min

Lab File: BG020156.D

Acq: 14 Dec 2015 15:40

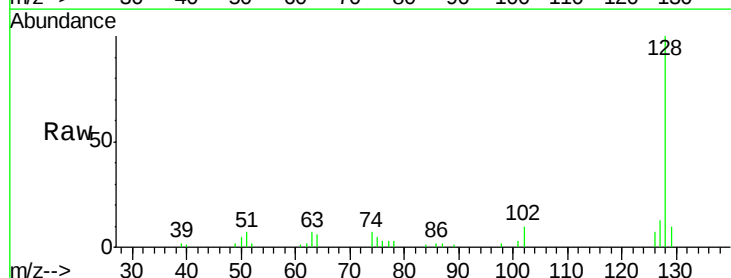
Tgt Ion:128 Resp: 27369

Ion Ratio Lower Upper

128 100

129 10.3 8.6 12.8

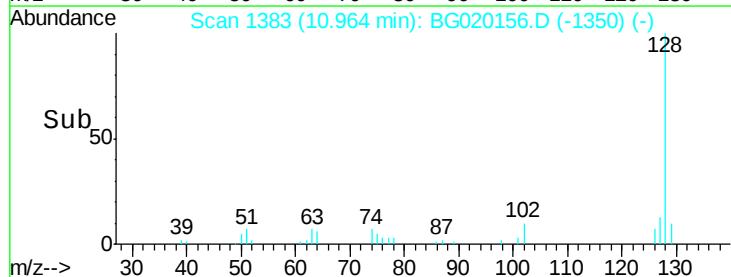
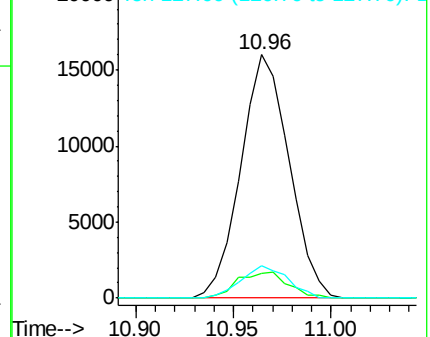
127 13.5 10.1 15.1

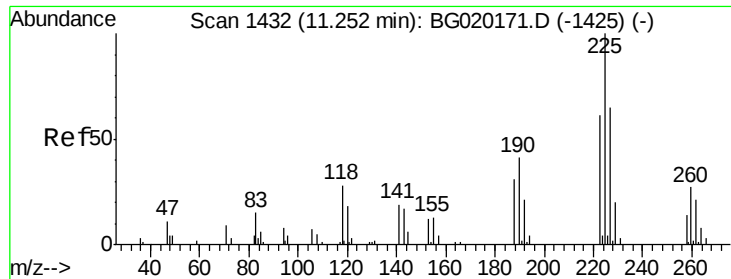


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

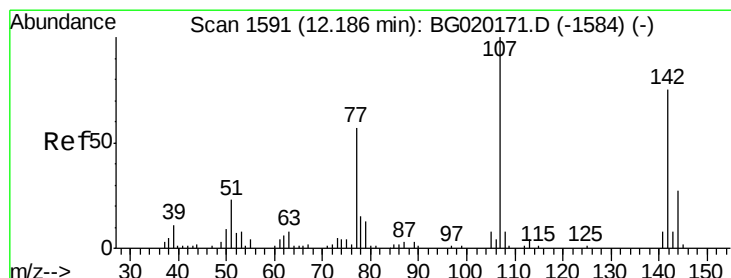
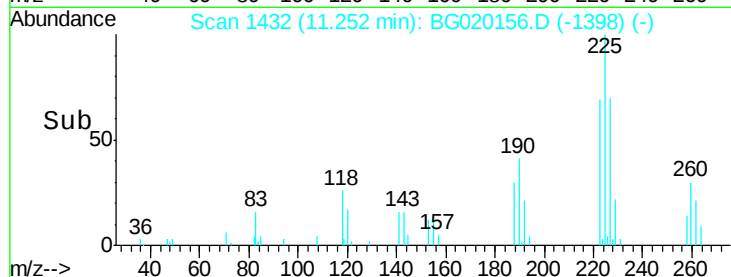
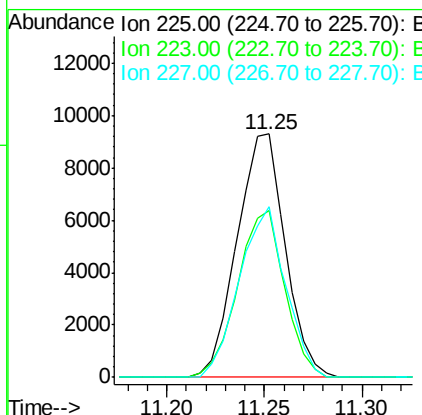
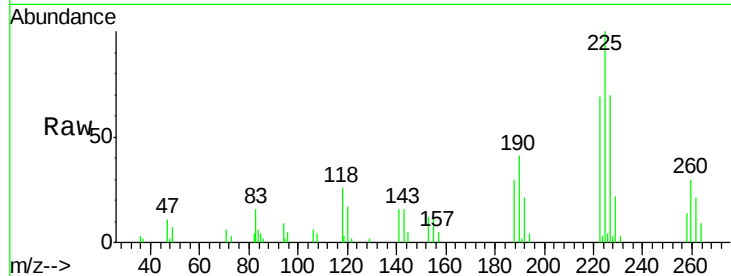




#31
Hexachlorobutadiene
Concen: 12.13 ng/u1
RT: 11.25 min Scan# 1432
Delta R.T. 0.00 min
Lab File: BG020156.D
Acq: 14 Dec 2015 15:40

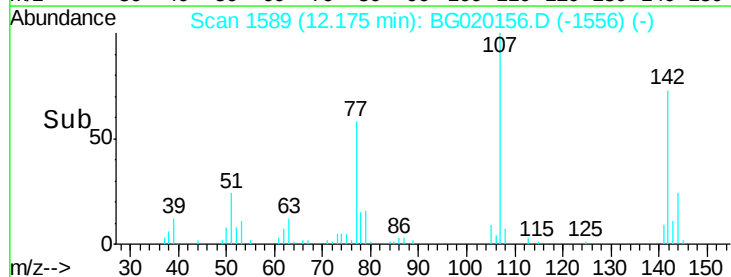
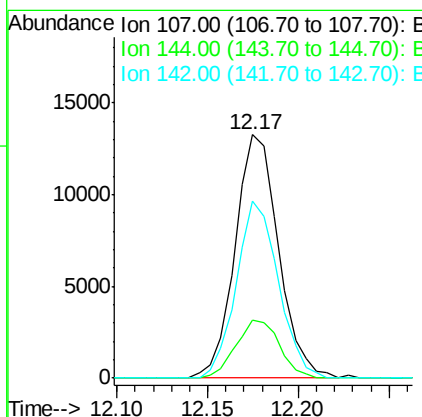
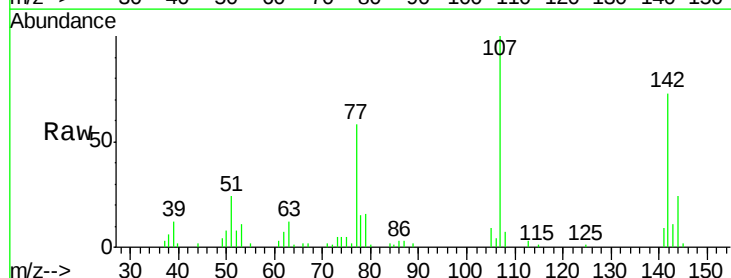
Instrument :
BNA_G
ClientSampleId :
D9N25

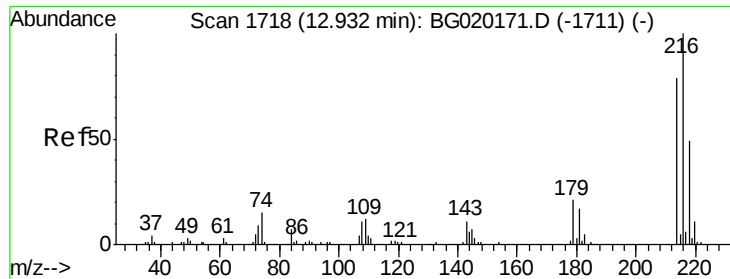
Tgt Ion:225 Resp: 15859
Ion Ratio Lower Upper
225 100
223 68.7 47.0 70.6
227 69.8 49.7 74.5



#33
4-Chloro-3-methylphenol
Concen: 10.58 ng/u1
RT: 12.17 min Scan# 1589
Delta R.T. -0.00 min
Lab File: BG020156.D
Acq: 14 Dec 2015 15:40

Tgt Ion:107 Resp: 22069
Ion Ratio Lower Upper
107 100
144 23.7 18.7 28.1
142 72.6 52.8 79.2

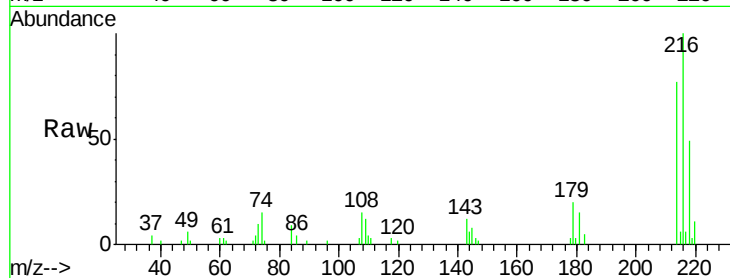




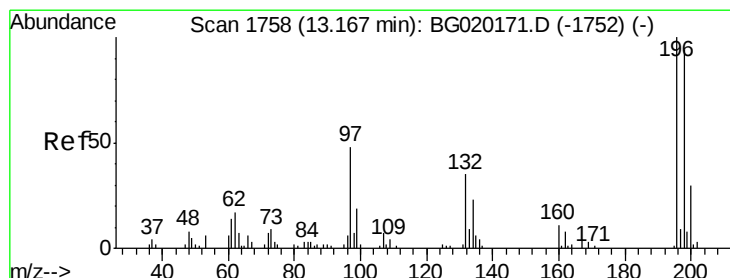
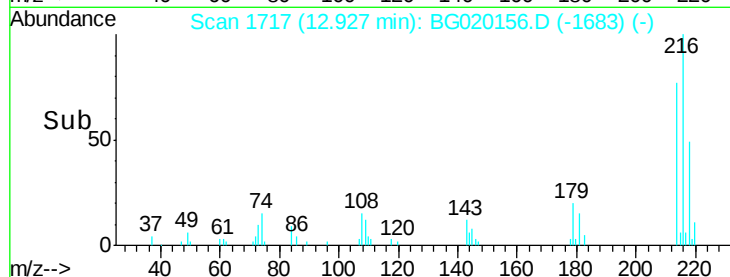
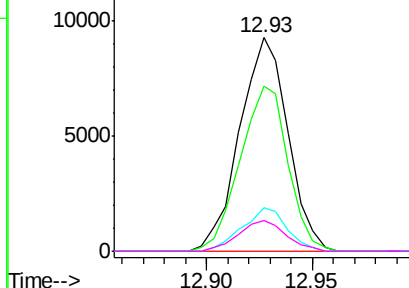
#37
 1,2,4,5-Tetrachlorobenzene
 Concen: 5.52 ng/ul
 RT: 12.93 min Scan# 1717
 Delta R.T. 0.00 min
 Lab File: BG020156.D
 Acq: 14 Dec 2015 15:40

Instrument :
 BNA_G
 ClientSampled :
 D9N25

Tgt Ion:	216	Resp:	14672
Ion Ratio	Lower	Upper	
216	100		
214	77.3	62.6	93.8
179	23.1	14.7	22.1#
108	14.6	10.5	15.7

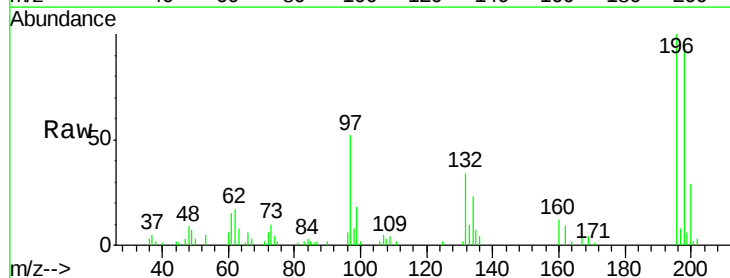


Abundance Ion 216.00 (215.70 to 216.70): E
 Ion 214.00 (213.70 to 214.70): E
 Ion 179.00 (178.70 to 179.70): E
 Ion 108.00 (107.70 to 108.70): E

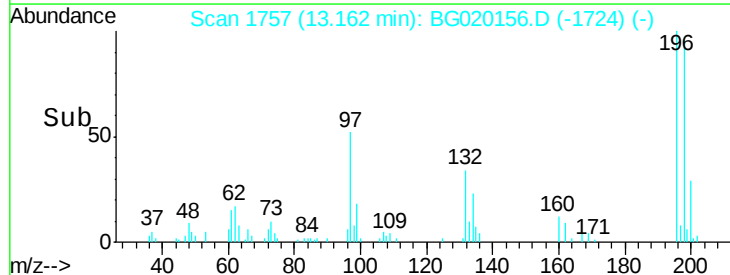
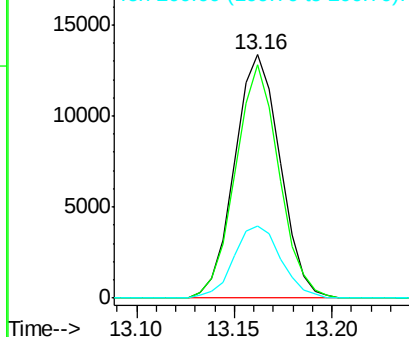


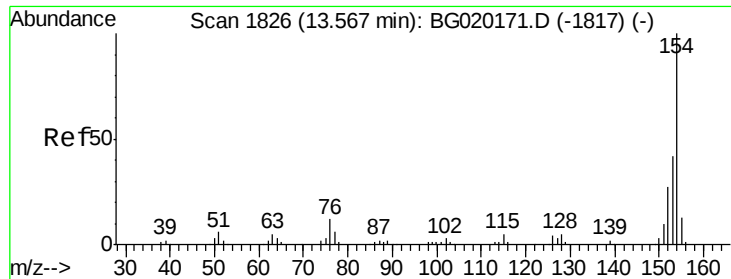
#39
 2,4,6-Trichlorophenol
 Concen: 12.66 ng/ul
 RT: 13.16 min Scan# 1757
 Delta R.T. -0.00 min
 Lab File: BG020156.D
 Acq: 14 Dec 2015 15:40

Tgt Ion:	196	Resp:	21586
Ion Ratio	Lower	Upper	
196	100		
198	96.1	75.9	113.9
200	29.4	25.8	38.8



Abundance Ion 196.00 (195.70 to 196.70): E
 Ion 198.00 (197.70 to 198.70): E
 Ion 200.00 (199.70 to 200.70): E

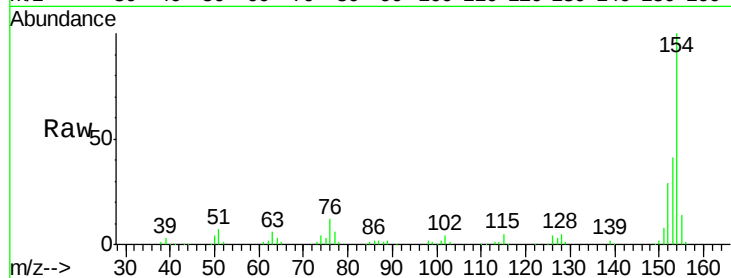




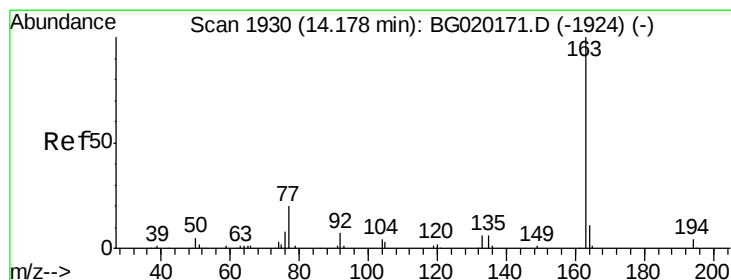
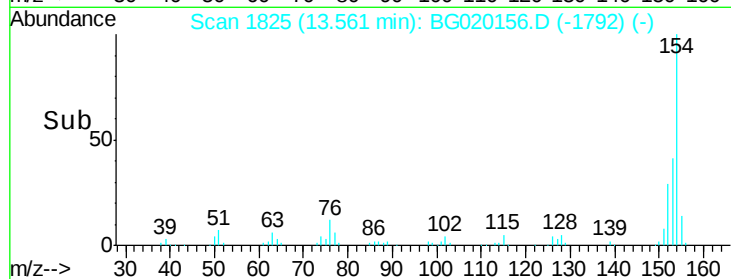
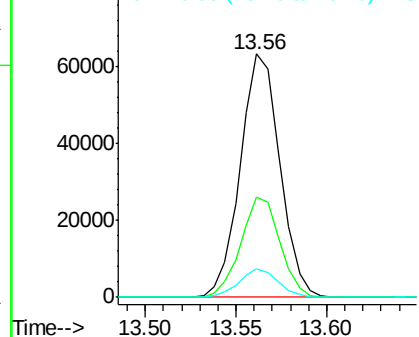
#41
 1,1'-Biphenyl
 Concen: 18.02 ng/ul
 RT: 13.56 min Scan# 1825
 Delta R.T. -0.00 min
 Lab File: BG020156.D
 Acq: 14 Dec 2015 15:40

Instrument :
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Tgt Ion:154 Resp: 96253
 Ion Ratio Lower Upper
 154 100
 153 41.2 35.5 53.3
 76 11.9 10.4 15.6

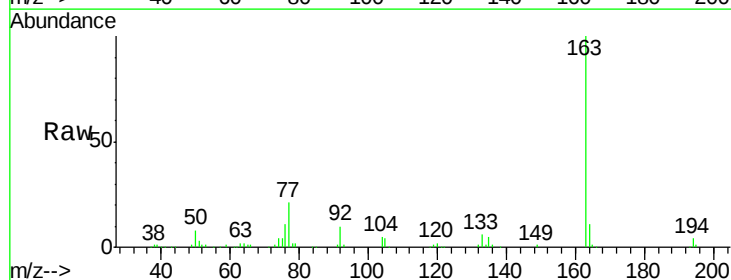


Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): B

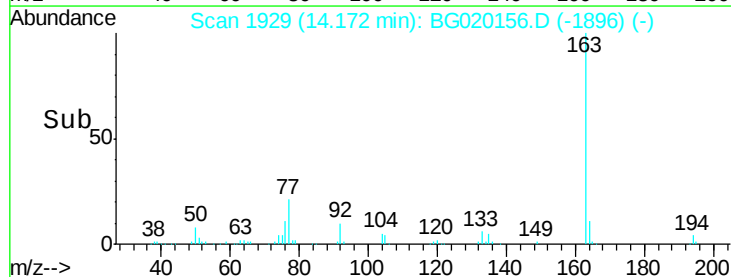
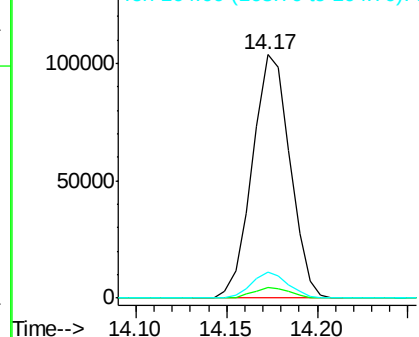


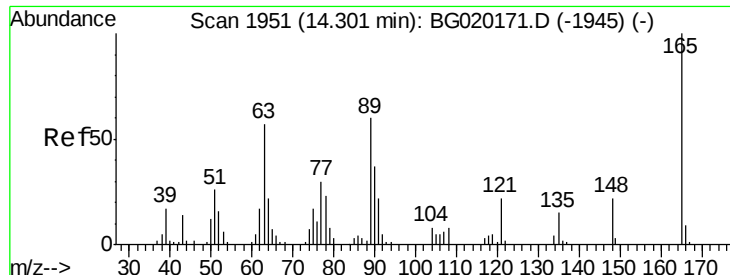
#45
 Dimethylphthalate
 Concen: 25.65 ng/ul
 RT: 14.17 min Scan# 1929
 Delta R.T. -0.00 min
 Lab File: BG020156.D
 Acq: 14 Dec 2015 15:40

Tgt Ion:163 Resp: 150047
 Ion Ratio Lower Upper
 163 100
 194 4.4 3.5 5.3
 164 10.7 7.7 11.5



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

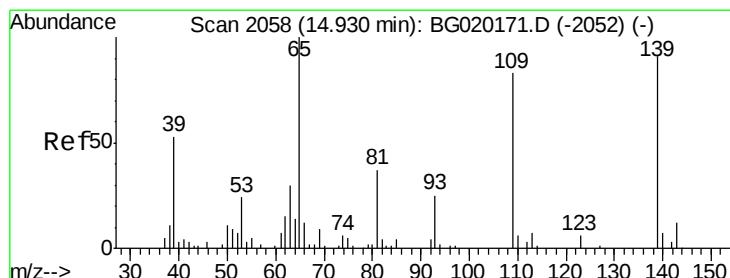
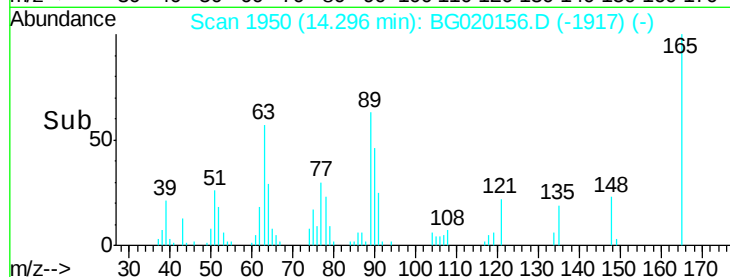
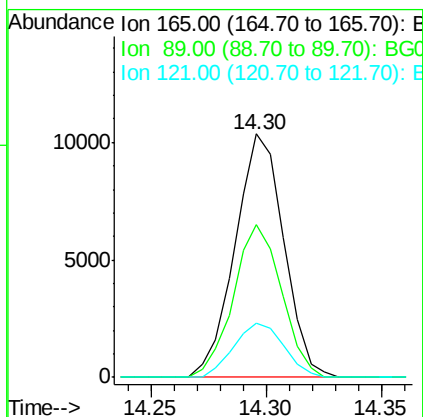
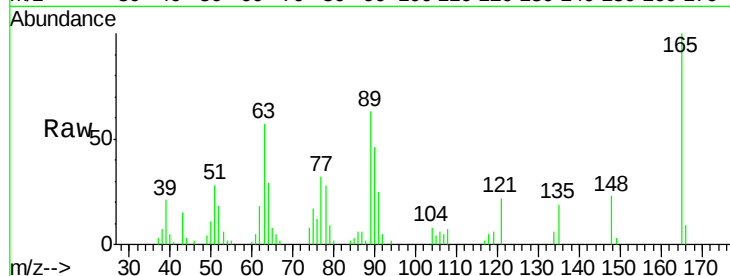




#46
 2,6-Dinitrotoluene
 Concen: 12.59 ng/ul
 RT: 14.30 min Scan# 1950
 Delta R.T. -0.00 min
 Lab File: BG020156.D
 Acq: 14 Dec 2015 15:40

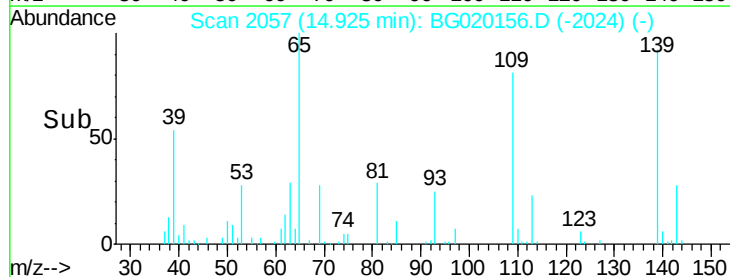
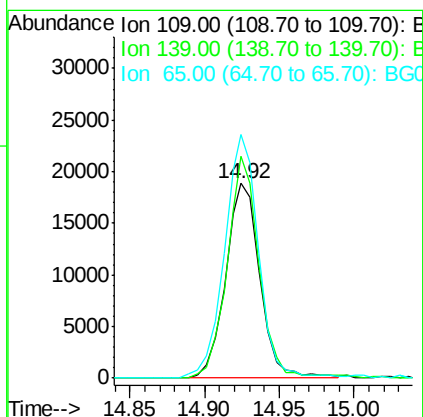
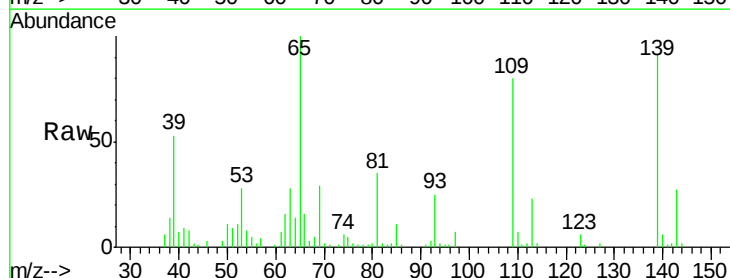
Instrument :
 BNA_G
 ClientSampleId :
 D9N25

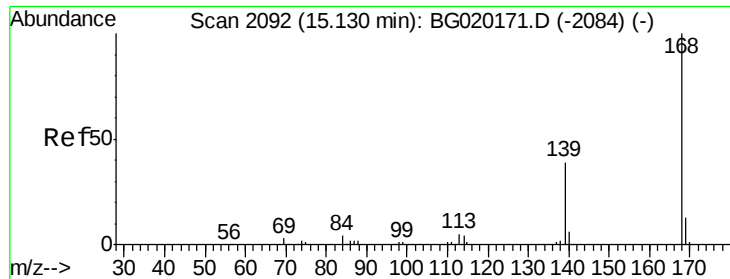
Tgt Ion	Ratio	Lower	Upper
165	100		
89	62.9	47.0	70.4
121	22.2	17.0	25.6



#53
 4-Nitrophenol
 Concen: 30.61 ng/ul
 RT: 14.92 min Scan# 2057
 Delta R.T. -0.00 min
 Lab File: BG020156.D
 Acq: 14 Dec 2015 15:40

Tgt Ion	Ratio	Lower	Upper
109	100		
139	114.2	80.5	120.7
65	125.0	93.4	140.2

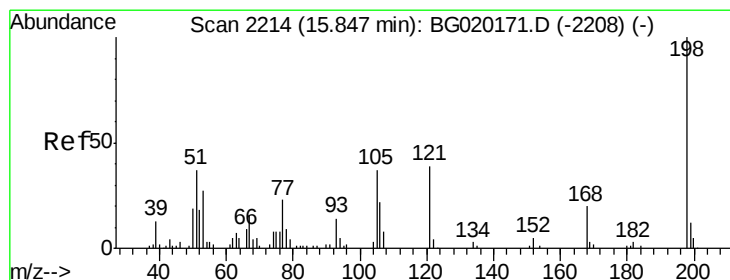
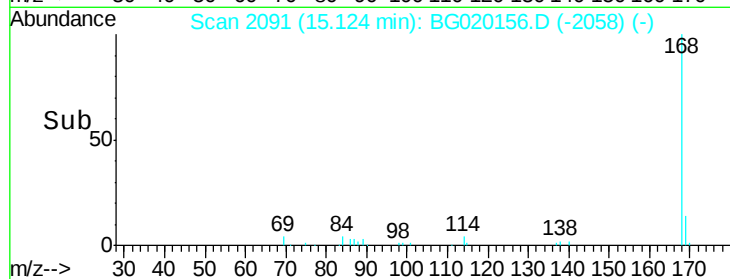
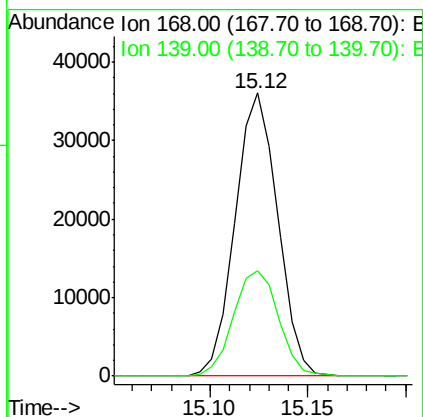
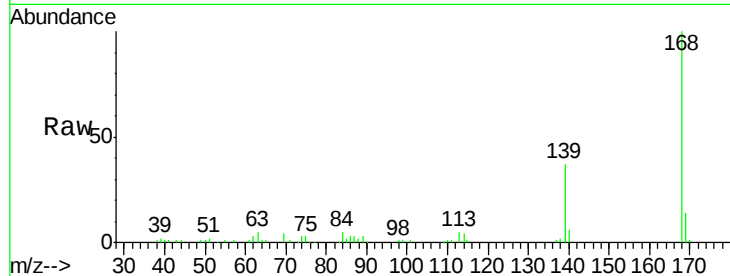




#54
Dibenzofuran
Concen: 7.68 ng/ul
RT: 15.12 min Scan# 2091
Delta R.T. -0.00 min
Lab File: BG020156.D
Acq: 14 Dec 2015 15:40

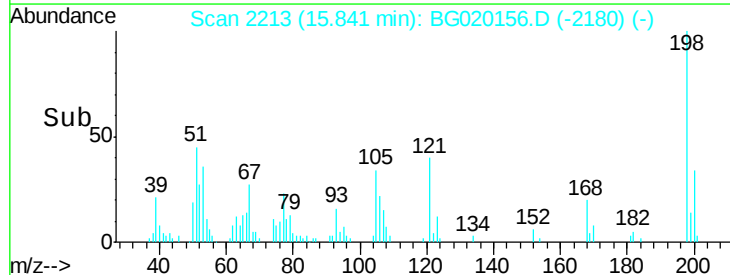
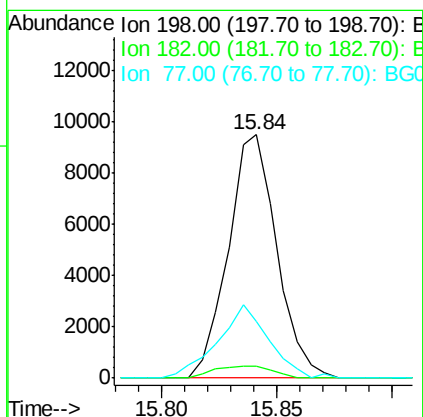
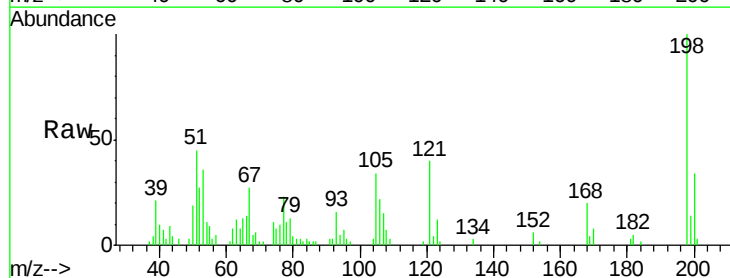
Instrument :
BNA_G
ClientSampleId :
D9N25

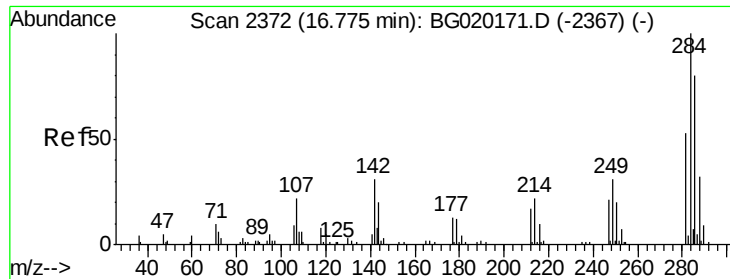
Tgt Ion:168 Resp: 54443
Ion Ratio Lower Upper
168 100
139 37.4 30.5 45.7



#64
4,6-Dinitro-2-methylphenol
Concen: 12.64 ng/ul
RT: 15.84 min Scan# 2213
Delta R.T. -0.00 min
Lab File: BG020156.D
Acq: 14 Dec 2015 15:40

Tgt Ion:198 Resp: 13913
Ion Ratio Lower Upper
198 100
182 4.8 2.5 3.7#
77 23.1 17.7 26.5

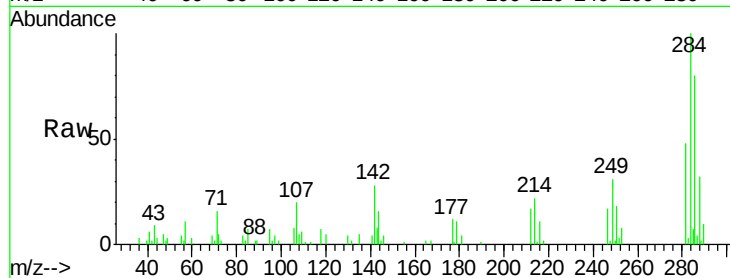




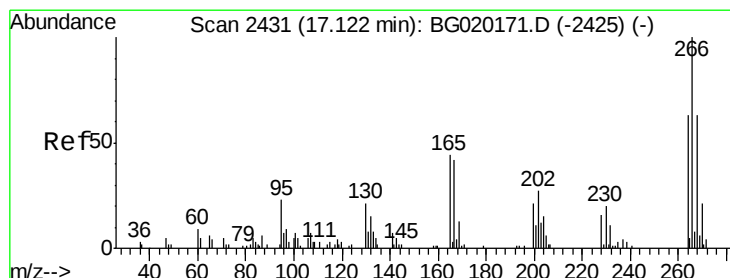
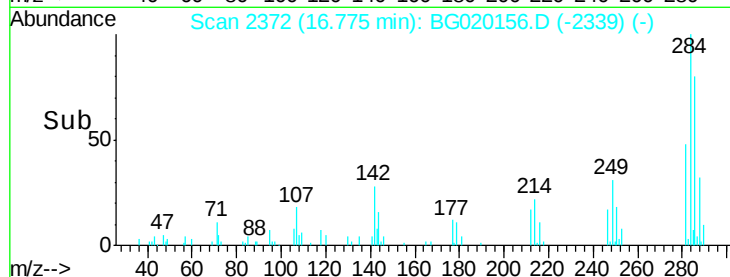
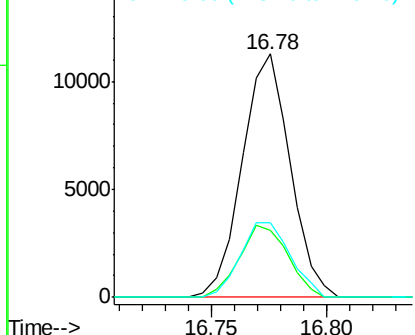
#67
Hexachlorobenzene
Concen: 7.50 ng/ul
RT: 16.78 min Scan# 2372
Delta R.T. -0.00 min
Lab File: BG020156.D
Acq: 14 Dec 2015 15:40

Instrument :
BNA_G
ClientSampleId :
D9N25

Tgt Ion	Ratio	Lower	Upper
284	100		
142	25.8	25.8	38.8
249	30.4	28.7	43.1

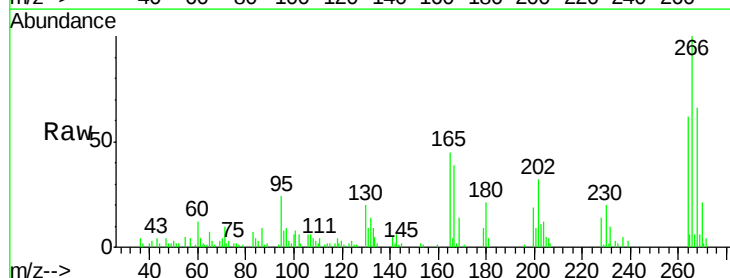


Abundance Ion 284.00 (283.70 to 284.70): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

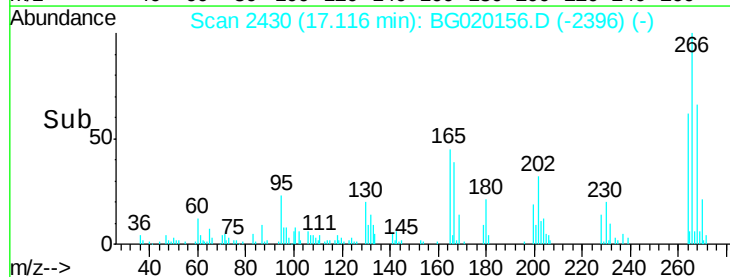
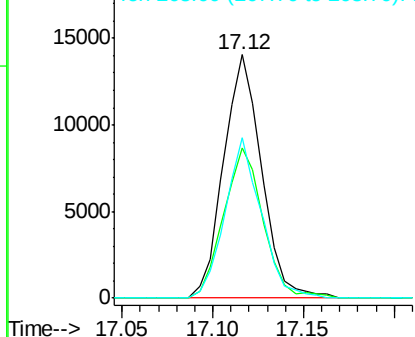


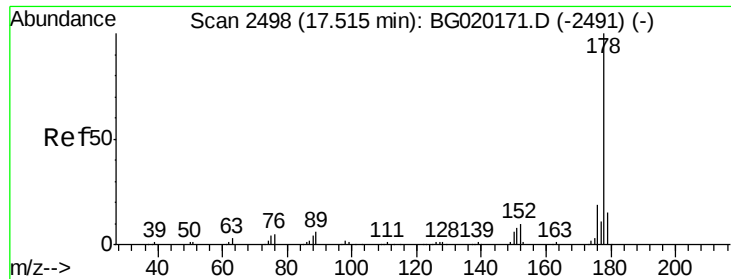
#69
Pentachlorophenol
Concen: 15.58 ng/ul
RT: 17.12 min Scan# 2430
Delta R.T. 0.00 min
Lab File: BG020156.D
Acq: 14 Dec 2015 15:40

Tgt Ion	Ratio	Lower	Upper
266	100		
264	61.6	52.2	78.2
268	66.1	49.3	73.9



Abundance Ion 265.70 (265.40 to 266.40): E
Ion 264.00 (263.70 to 264.70): E
Ion 268.00 (267.70 to 268.70): E





#70

Phenanthrene

Concen: 22.19 ng/ul

RT: 17.52 min Scan# 2498

Delta R.T. 0.00 min

Lab File: BG020156.D

Acq: 14 Dec 2015 15:40

Instrument :

BNA_G

ClientSampleId :

D9N25

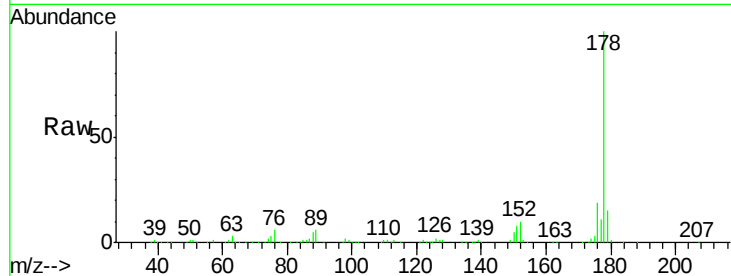
Tgt Ion:178 Resp: 209898

Ion Ratio Lower Upper

178 100

179 15.4 12.9 19.3

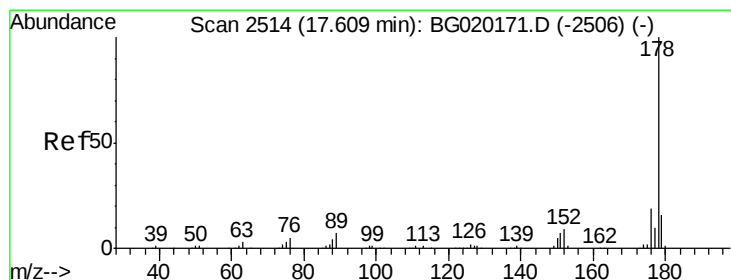
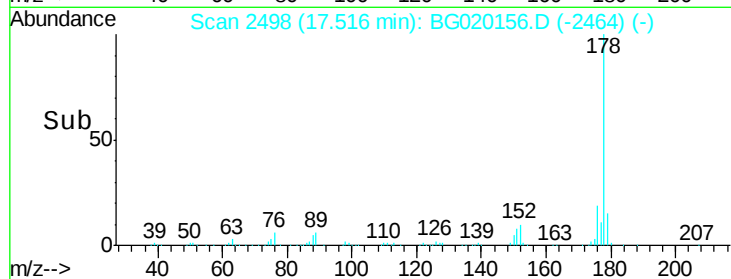
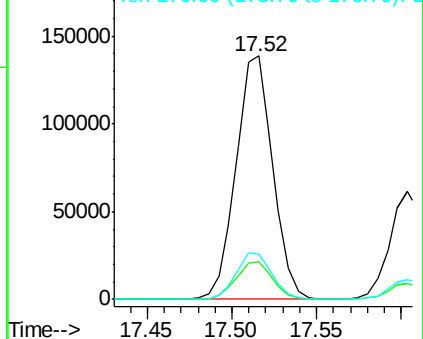
176 18.5 15.3 22.9



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#72

Anthracene

Concen: 9.28 ng/ul

RT: 17.60 min Scan# 2513

Delta R.T. -0.00 min

Lab File: BG020156.D

Acq: 14 Dec 2015 15:40

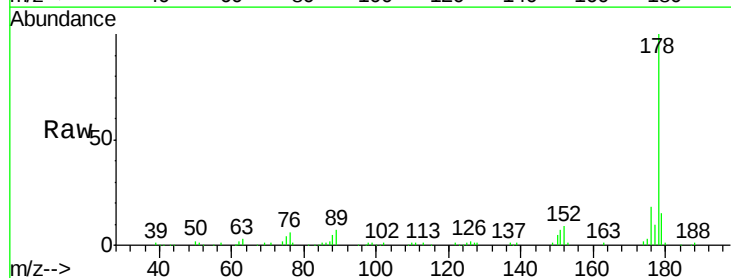
Tgt Ion:178 Resp: 89046

Ion Ratio Lower Upper

178 100

179 14.8 12.3 18.5

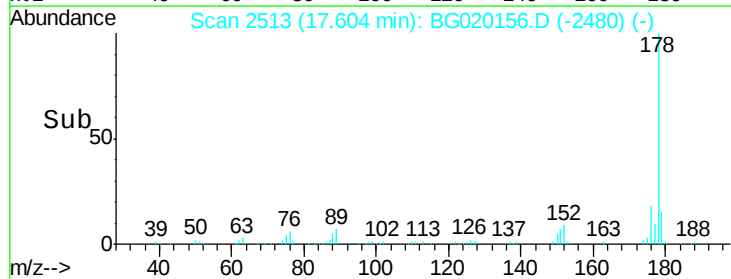
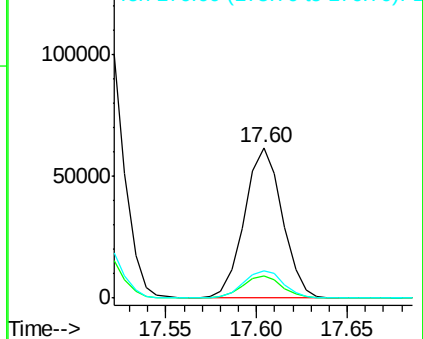
176 18.0 14.3 21.5

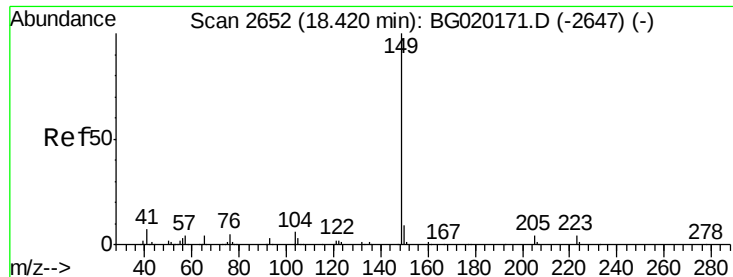


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#76

Di-n-butylphthalate

Concen: 15.06 ng/ul

RT: 18.42 min Scan# 2652

Delta R.T. 0.00 min

Lab File: BG020156.D

Acq: 14 Dec 2015 15:40

Instrument :

BNA_G

ClientSampleId :

D9N25

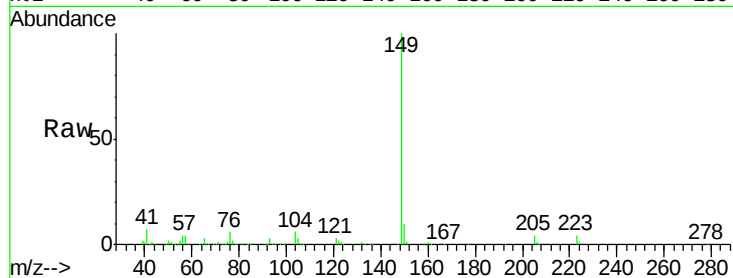
Tgt Ion:149 Resp: 141107

Ion Ratio Lower Upper

149 100

150 9.6 7.7 11.5

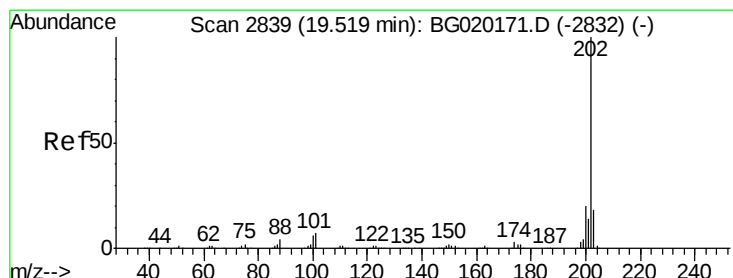
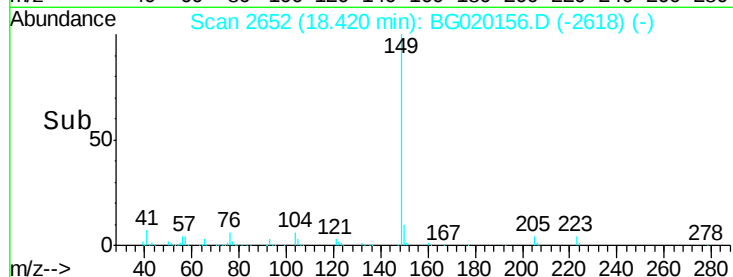
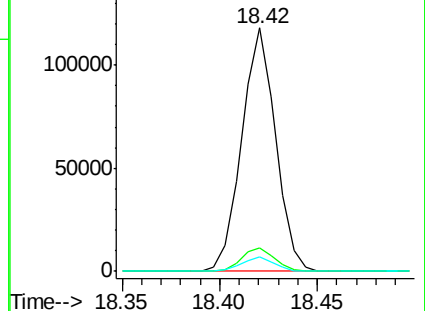
104 6.0 4.2 6.4



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#77

Fluoranthene

Concen: 19.40 ng/ul

RT: 19.51 min Scan# 2838

Delta R.T. -0.00 min

Lab File: BG020156.D

Acq: 14 Dec 2015 15:40

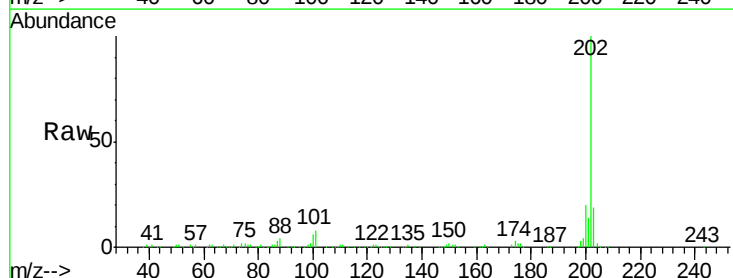
Tgt Ion:202 Resp: 214465

Ion Ratio Lower Upper

202 100

101 7.6 6.2 9.4

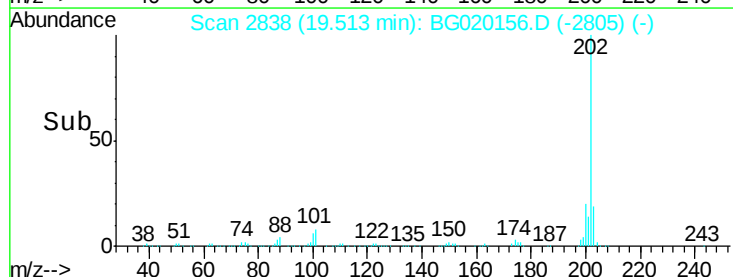
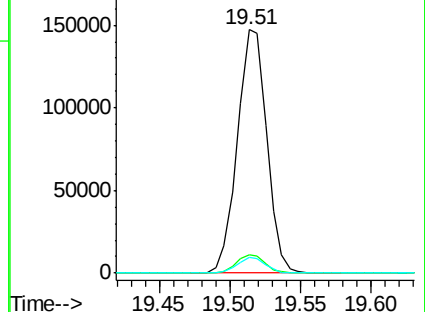
100 6.3 5.1 7.7

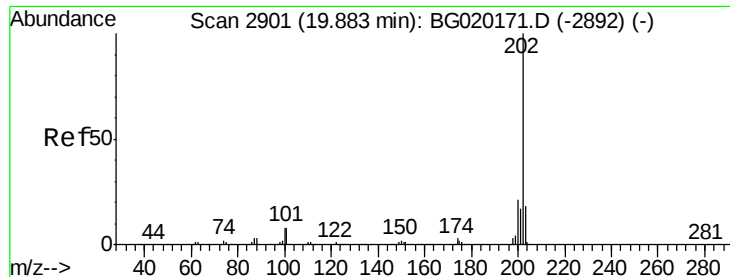


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E

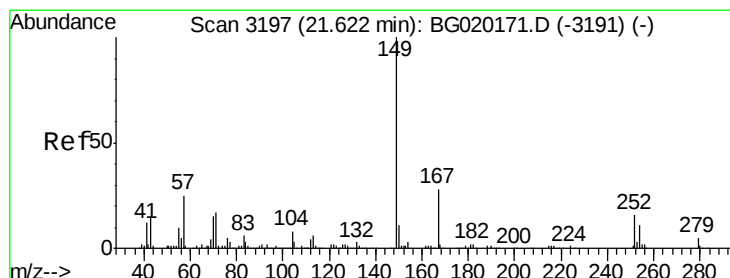
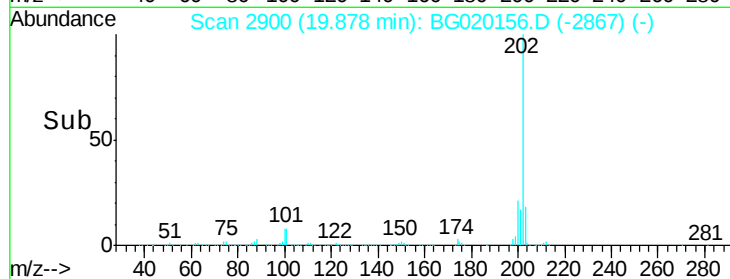
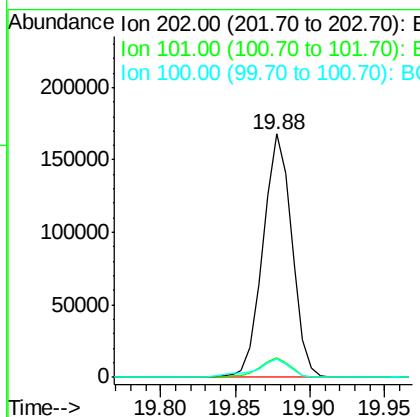
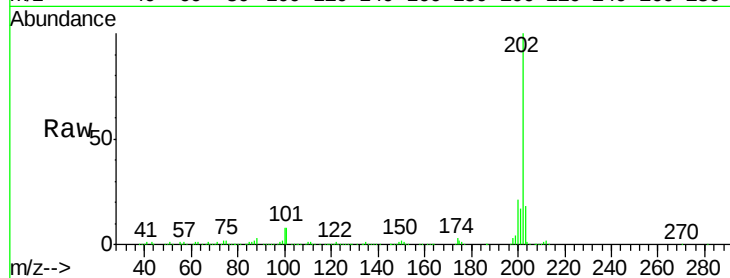




#80
 Pyrene
 Concen: 20.03 ng/ul
 RT: 19.88 min Scan# 2900
 Delta R.T. -0.00 min
 Lab File: BG020156.D
 Acq: 14 Dec 2015 15:40

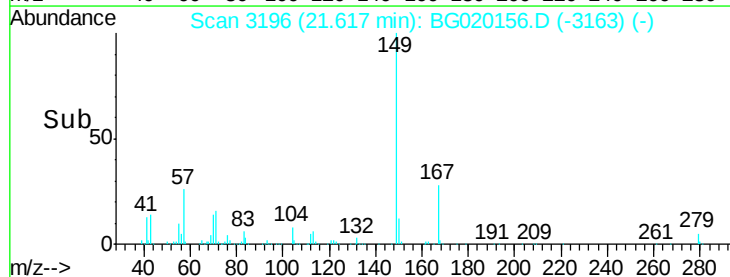
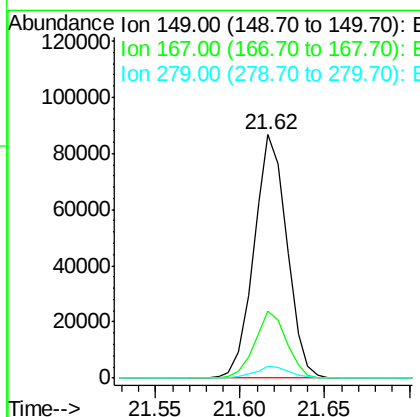
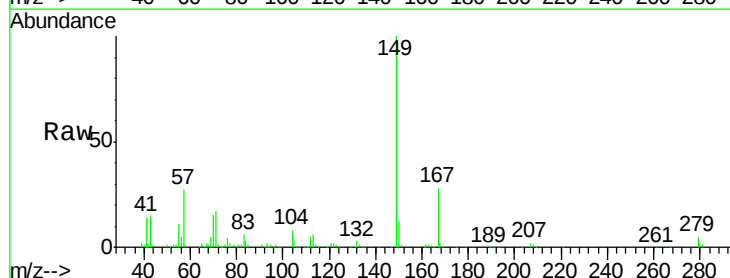
Instrument :
 BNA_G
 ClientSampleId :
 D9N25

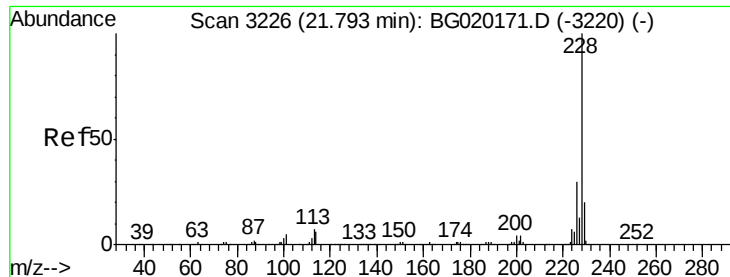
Tgt Ion	Ratio	Lower	Upper
202	100		
101	8.3	7.0	10.4
100	7.5	6.4	9.6



#84
 Bis(2-ethylhexyl)phthalate
 Concen: 21.01 ng/ul
 RT: 21.62 min Scan# 3196
 Delta R.T. -0.00 min
 Lab File: BG020156.D
 Acq: 14 Dec 2015 15:40

Tgt Ion	Ratio	Lower	Upper
149	100		
167	27.6	22.8	34.2
279	5.0	4.1	6.1





#85

Chrysene

Concen: 17.31 ng/u1

RT: 21.79 min Scan# 3225

Delta R.T. -0.00 min

Lab File: BG020156.D

Acq: 14 Dec 2015 15:40

Instrument :

BNA_G

ClientSampled :

D9N25

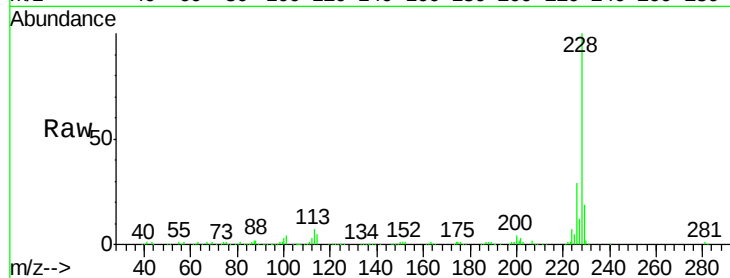
Tgt Ion:228 Resp: 176343

Ion Ratio Lower Upper

228 100

226 29.0 23.9 35.9

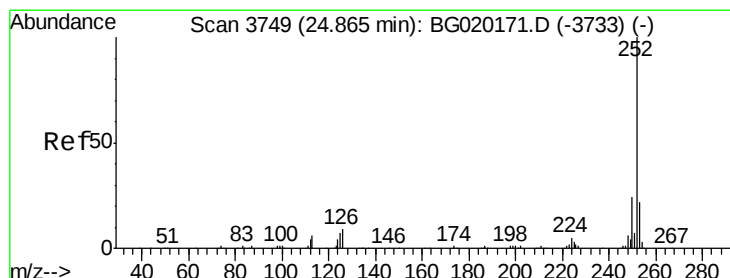
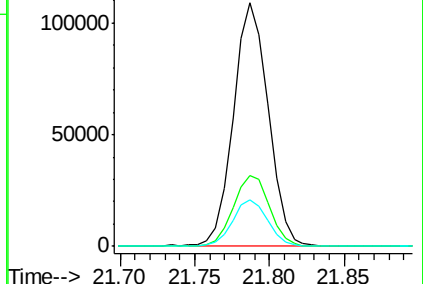
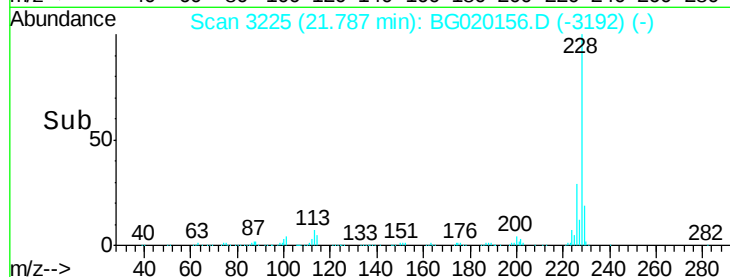
229 19.1 15.6 23.4



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



#91

Benzo(a)pyrene

Concen: 15.12 ng/u1

RT: 24.86 min Scan# 3748

Delta R.T. 0.00 min

Lab File: BG020156.D

Acq: 14 Dec 2015 15:40

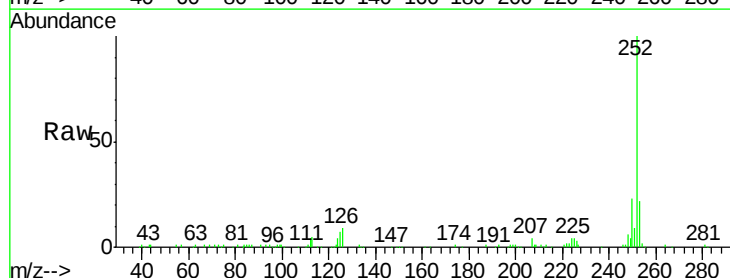
Tgt Ion:252 Resp: 153487

Ion Ratio Lower Upper

252 100

253 22.4 17.0 25.4

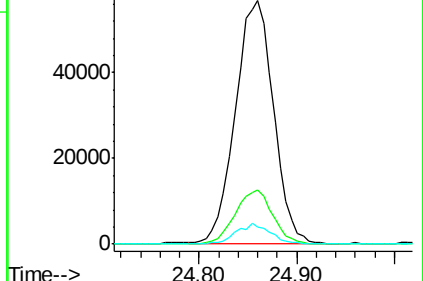
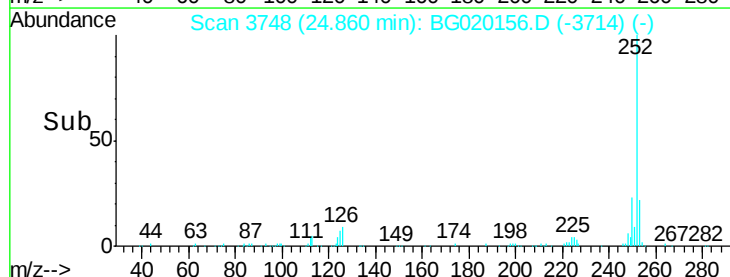
125 7.2 6.2 9.4

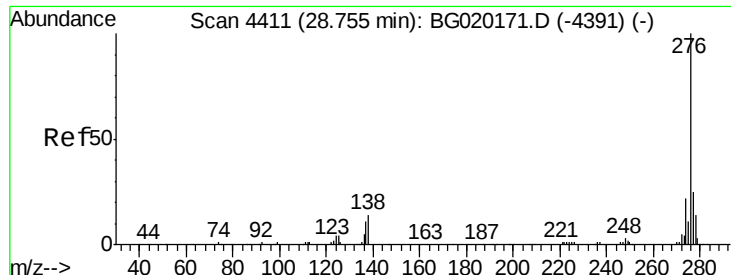


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

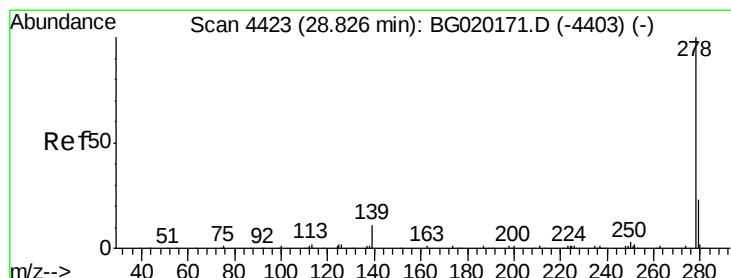
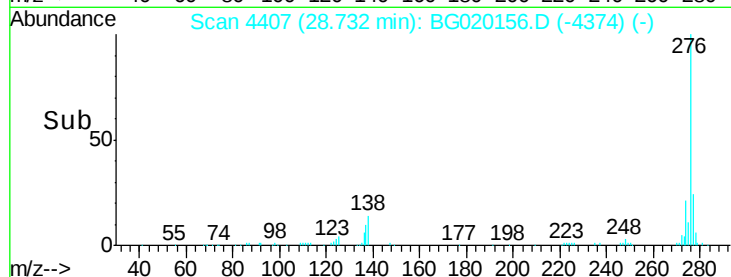
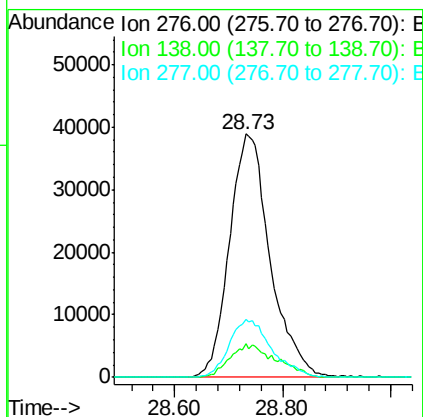
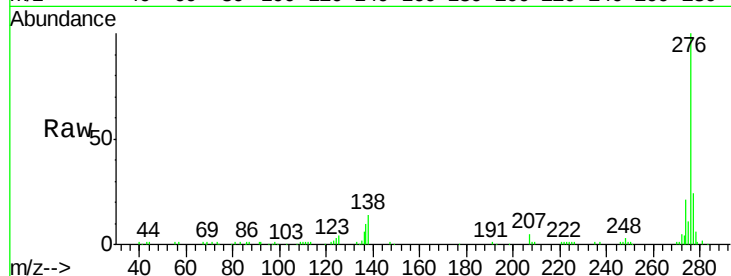




#92
 Indeno(1,2,3-cd)pyrene
 Concen: 16.86 ng/ul
 RT: 28.73 min Scan# 4407
 Delta R.T. -0.00 min
 Lab File: BG020156.D
 Acq: 14 Dec 2015 15:40

Instrument :
 BNA_G
 ClientSampleId :
 D9N25

Tgt Ion	Ratio	Lower	Upper
276	100		
138	13.6	11.4	17.0
277	23.9	17.4	26.0



#93
 Dibenzo(a,h)anthracene
 Concen: 10.72 ng/ul
 RT: 28.80 min Scan# 4419
 Delta R.T. -0.01 min
 Lab File: BG020156.D
 Acq: 14 Dec 2015 15:40

Tgt Ion	Ratio	Lower	Upper
278	100		
139	10.9	9.4	14.2
279	25.3	19.4	29.0

