

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121015\
 Data File : BG020056.D
 Acq On : 9 Dec 2015 23:11
 Operator : UM/SJ
 Sample : G4698-02
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 KENT-PIT-2

Quant Time: Dec 10 02:38:41 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

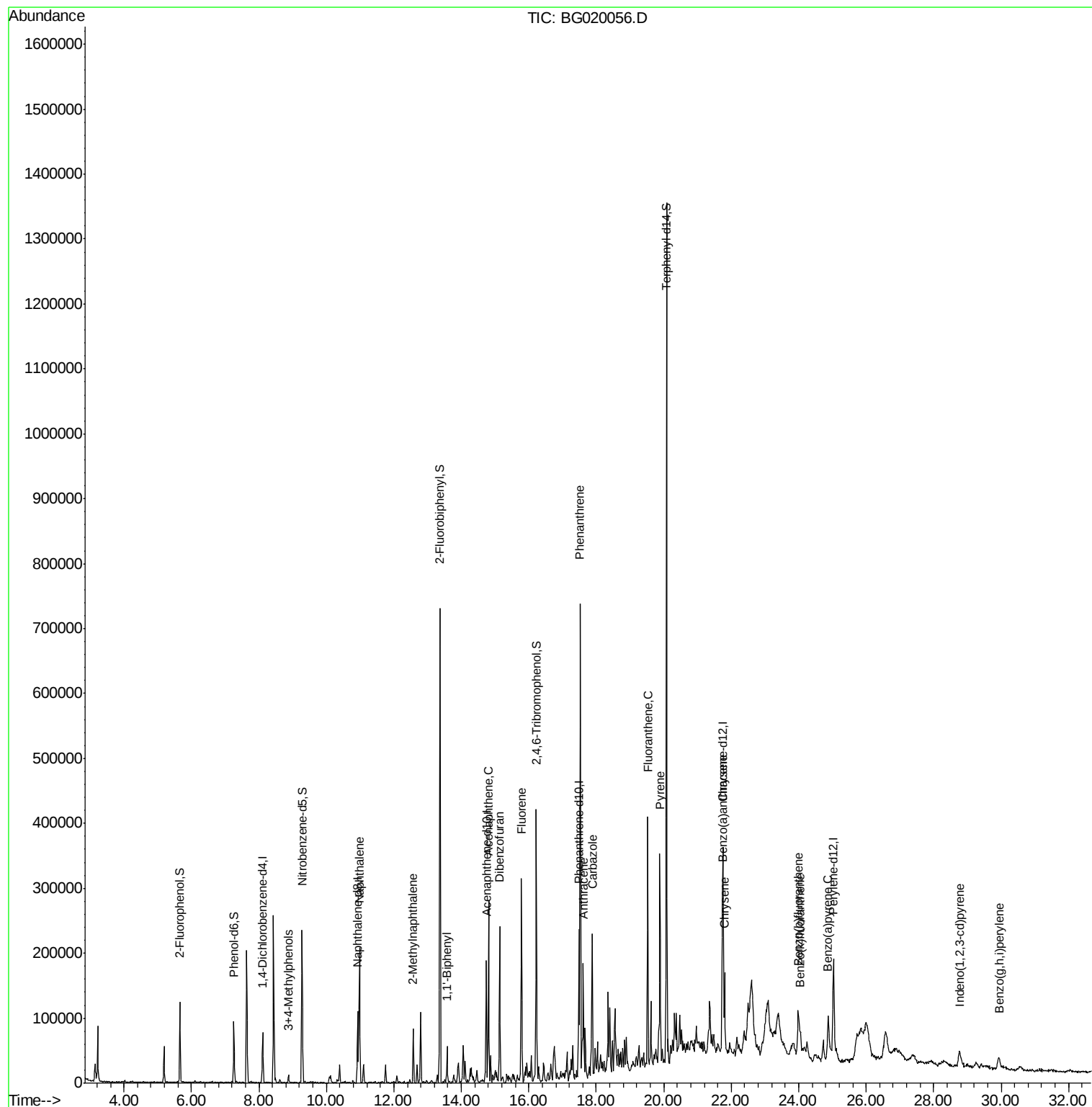
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.11	152	20915	20.00	ng	-0.03
21) Naphthalene-d8	10.93	136	93030	20.00	ng	-0.02
38) Acenaphthene-d10	14.74	164	61609	20.00	ng	-0.03
63) Phenanthrene-d10	17.48	188	142814	20.00	ng	-0.03
75) Chrysene-d12	21.75	240	177264	20.00	ng	-0.04
86) Perylene-d12	25.03	264	168690	20.00	ng	-0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.65	112	52152	45.07	ng	-0.01
7) Phenol-d6	7.26	99	53367	30.54	ng	-0.02
23) Nitrobenzene-d5	9.28	82	147814	81.09	ng	-0.02
41) 2,4,6-Tribromophenol	16.22	330	71771	76.14	ng	-0.02
44) 2-Fluorobiphenyl	13.36	172	370803	82.18	ng	-0.03
78) Terphenyl-d14	20.08	244	599965	82.56	ng	-0.03
Target Compounds						Qvalue
20) 3+4-Methylphenols	8.87	107	4793	2.62	ng	# 89
31) Naphthalene	10.98	128	171191	34.35	ng	100
37) 2-Methylnaphthalene	12.58	142	37385	10.24	ng	# 94
45) 1,1'-Biphenyl	13.57	154	22448	4.44	ng	98
51) Acenaphthene	14.80	154	101304	25.15	ng	98
54) Dibenzofuran	15.14	168	153919	25.69	ng	94
57) Fluorene	15.78	166	138487	25.82	ng	100
70) Phenanthrene	17.52	178	443741	54.92	ng	97
71) Anthracene	17.61	178	118388	14.38	ng	98
72) Carbazole	17.88	167	141869	19.57	ng	97
74) Fluoranthene	19.53	202	238460	23.07	ng	92
77) Pvrene	19.88	202	188847	18.11	ng	96
80) Benzo(a)anthracene	21.73	228	90055	8.30	ng	98
82) Chrysene	21.80	228	78067	7.58	ng	96
85) Indeno(1,2,3-cd)pyrene	28.76	276	40569	3.57	ng	# 100
87) Benzo(b)fluoranthene	23.99	252	78494	7.34	ng	# 94
88) Benzo(k)fluoranthene	24.05	252	30248m	2.86	ng	
89) Benzo(a)pyrene	24.87	252	64005m	6.31	ng	
91) Benzo(a,h,i)perylene	29.93	276	36198	3.68	ng	# 94

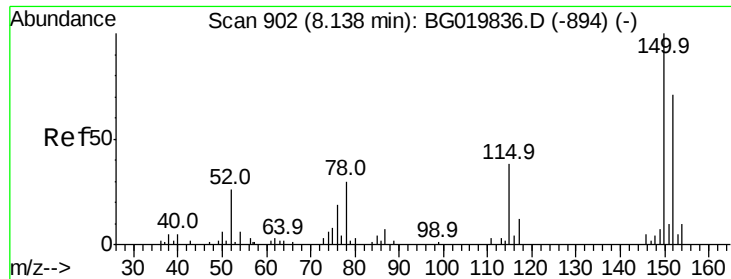
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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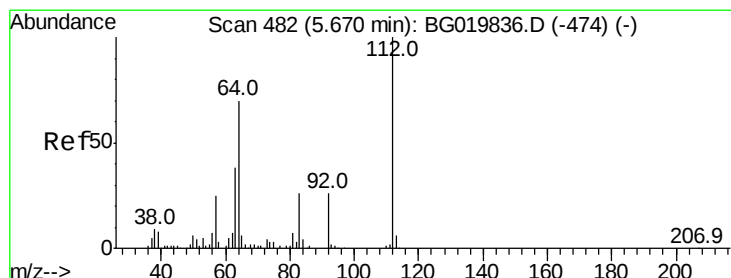
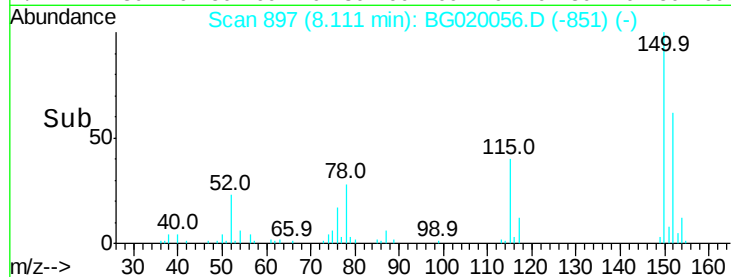
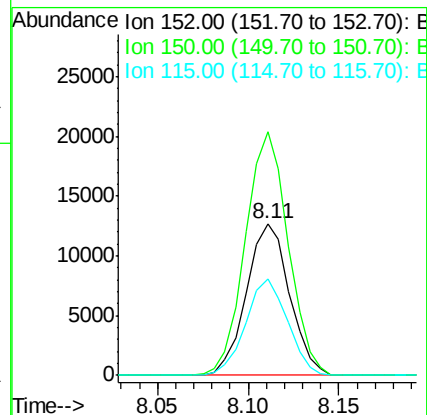
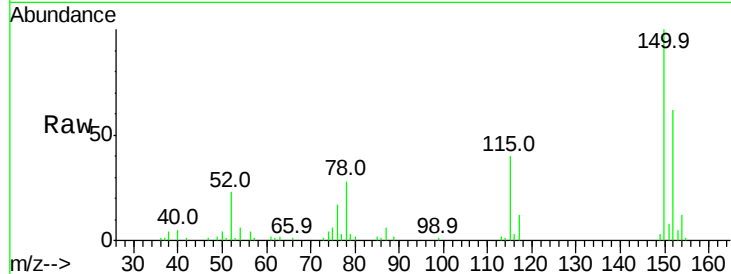


#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.11 min Scan# 897
Delta R.T. -0.03 min
Lab File: BG020056.D
Acq: 9 Dec 2015 23:11

Instrument :
BNA_G
ClientSampleId :
KENT-PIT-2

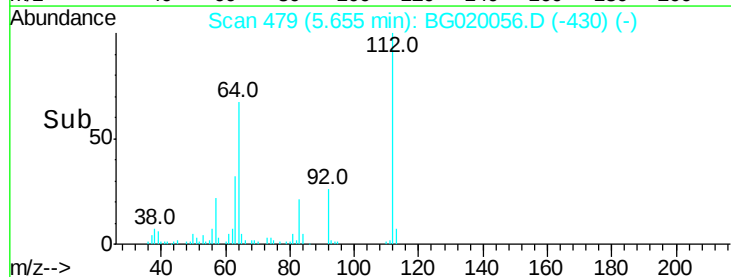
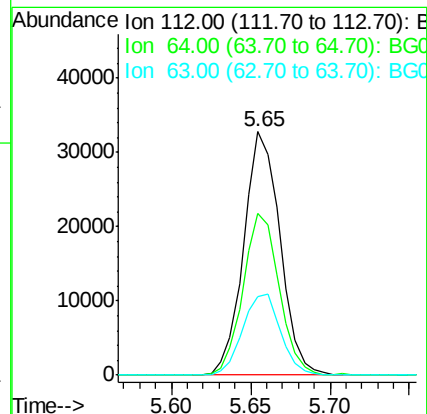
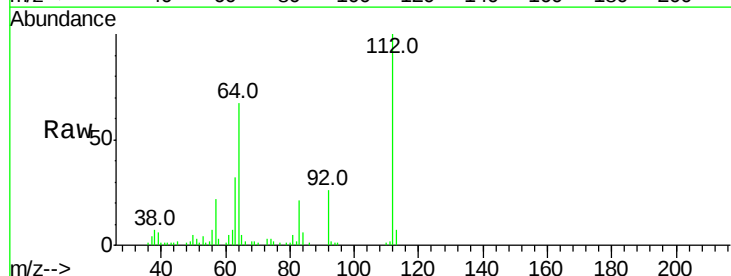
Tot Ion:152 Resp: 20915
Ion Ratio Lower Upper
152 100
150 160.2 115.0 172.4
115 63.5 43.9 65.9

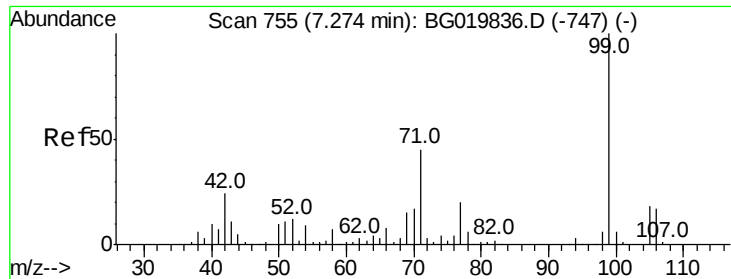


#5

2-Fluorophenol
Concen: 45.07 ng
RT: 5.65 min Scan# 479
Delta R.T. -0.01 min
Lab File: BG020056.D
Acq: 9 Dec 2015 23:11

Tgt Ion:112 Resp: 52152
Ion Ratio Lower Upper
112 100
64 66.7 43.7 65.5#
63 32.3 24.0 36.0





#7

Phenol-d6

Concen: 30.54 ng

RT: 7.26 min Scan# 752

Delta R.T. -0.02 min

Lab File: BG020056.D

Acq: 9 Dec 2015 23:11

Instrument :

BNA_G

ClientSampleId :

KENT-PIT-2

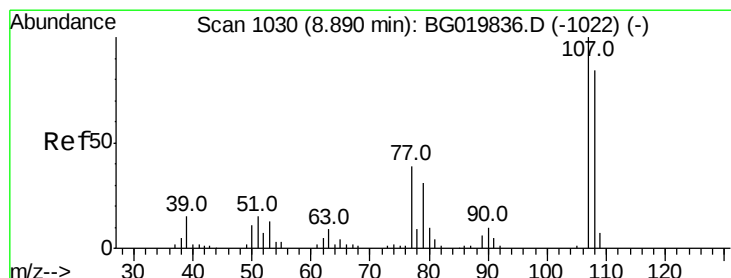
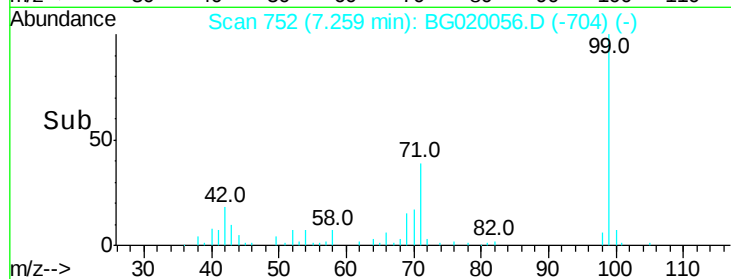
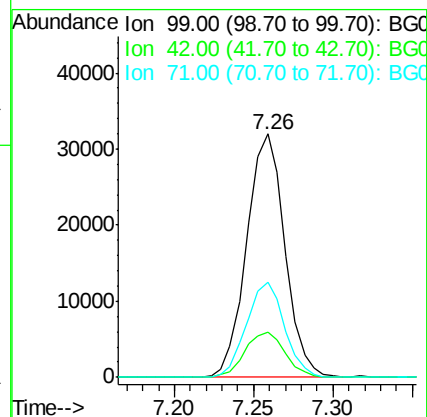
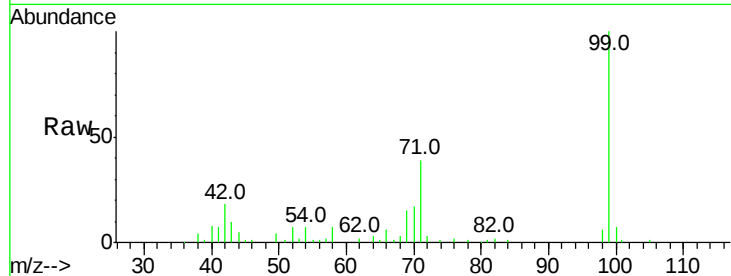
Tot Ion: 99 Resp: 53367

Ion Ratio Lower Upper

99 100

42 18.5 11.5 17.3#

71 39.2 22.6 34.0#



#20

3+4-Methylphenols

Concen: 2.62 ng

RT: 8.87 min Scan# 1027

Delta R.T. -0.02 min

Lab File: BG020056.D

Acq: 9 Dec 2015 23:11

Tgt Ion: 107 Resp: 4793

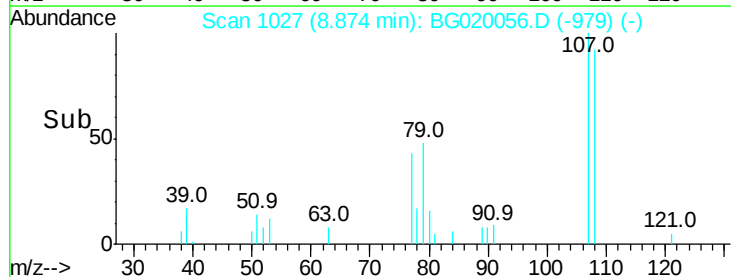
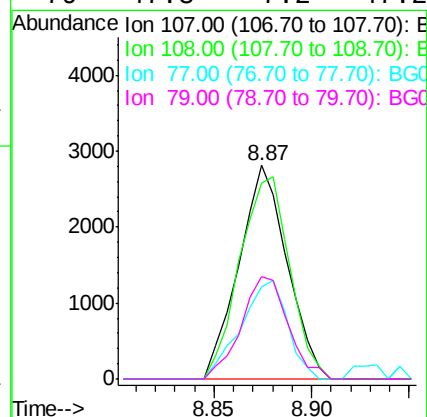
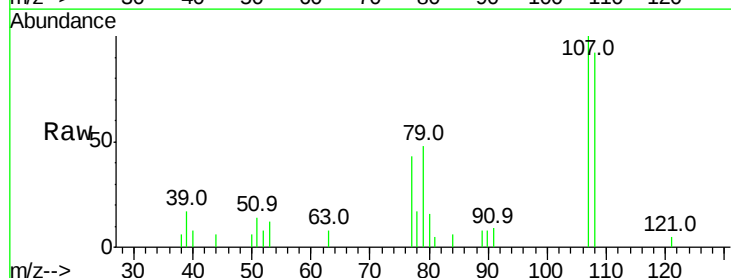
Ion Ratio Lower Upper

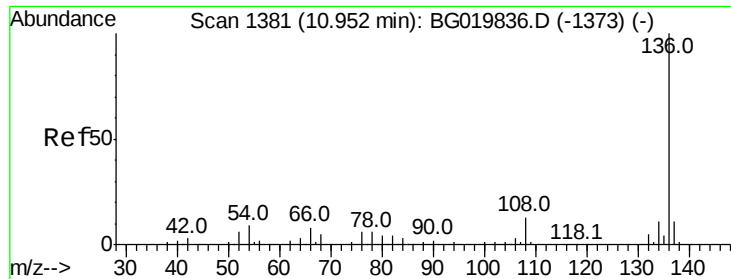
107 100

108 91.7 72.2 112.2

77 43.4 13.4 53.4

79 47.8 7.2 47.2#

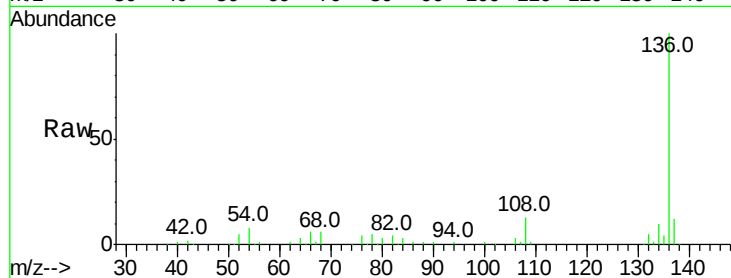




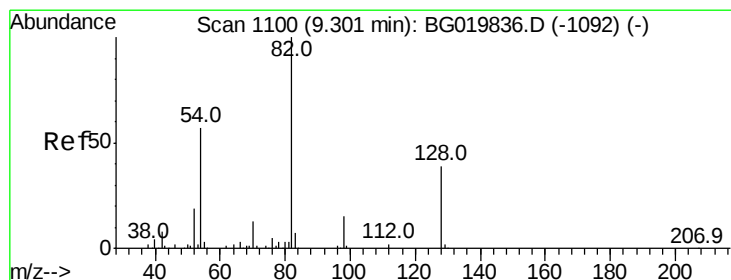
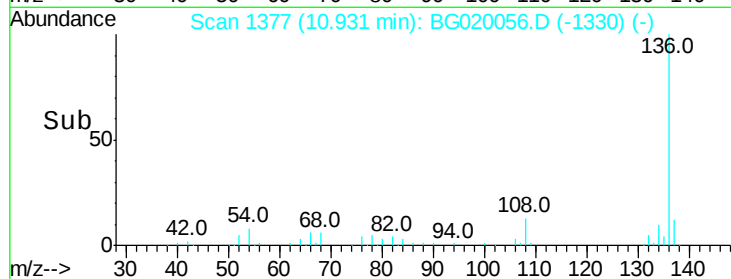
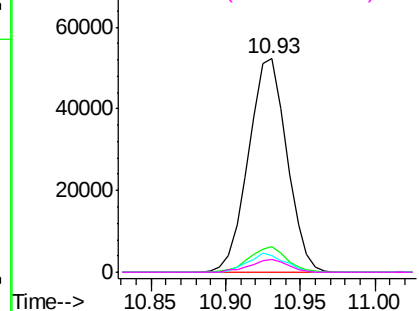
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 10.93 min Scan# 1377
Delta R.T. -0.02 min
Lab File: BG020056.D
Acq: 9 Dec 2015 23:11

Instrument :
BNA_G
ClientSampleId :
KENT-PIT-2

Tot Ion:136	Resp:	93030
Ion Ratio	Lower	Upper
136 100		
137 12.0	8.6	12.8
54 7.8	5.4	8.2
68 5.7	5.3	7.9

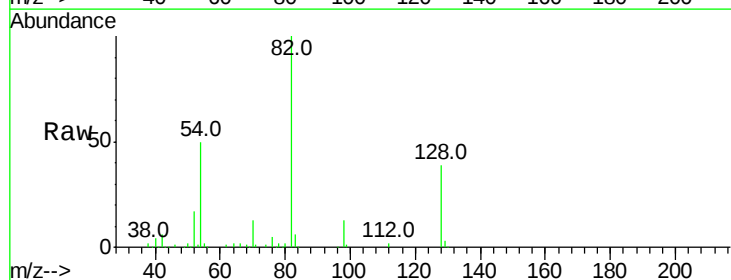


Abundance Ion 136.00 (135.70 to 136.70): BGC
Ion 137.00 (136.70 to 137.70): BGC
Ion 54.00 (53.70 to 54.70): BGC
Ion 68.00 (67.70 to 68.70): BGC

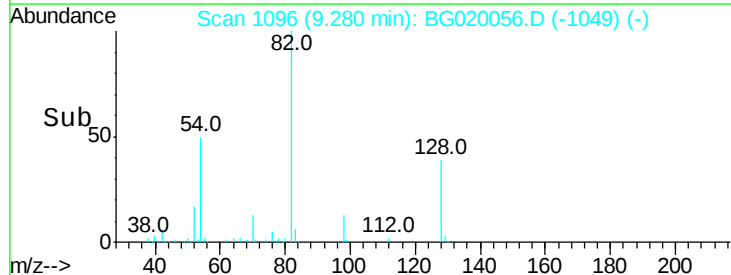
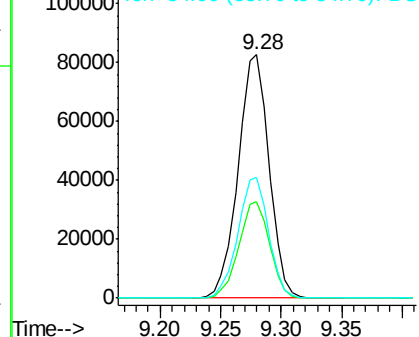


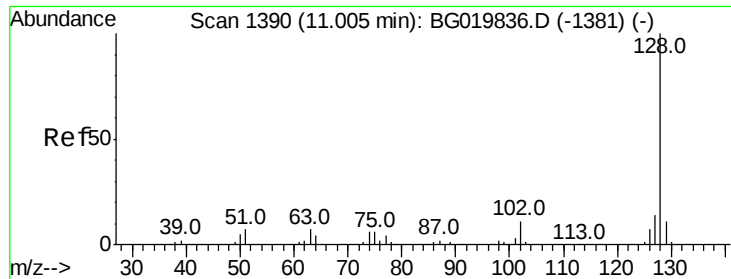
#23
Nitrobenzene-d5
Concen: 81.09 ng
RT: 9.28 min Scan# 1096
Delta R.T. -0.02 min
Lab File: BG020056.D
Acq: 9 Dec 2015 23:11

Tgt Ion	82	Resp: Lower	147814 Upper
	Ratio 100		
128	39.4	36.7	55.1
54	49.6	33.8	50.8



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





#31

Naphthalene

Concen: 34.35 ng

RT: 10.98 min Scan# 1385

Delta R.T. -0.03 min

Lab File: BG020056.D

Acq: 9 Dec 2015 23:11

Instrument :

BNA_G

ClientSampleId :

KENT-PIT-2

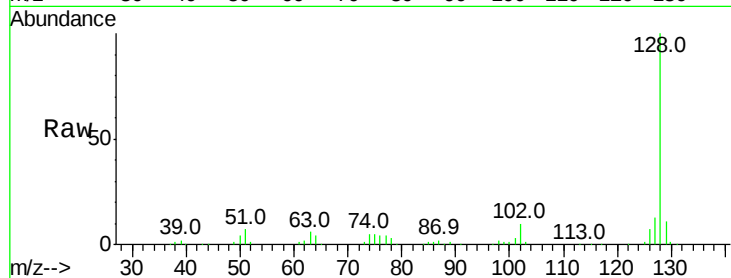
Tot Ion:128 Resp: 171191

Ion Ratio Lower Upper

128 100

129 10.5 8.5 12.7

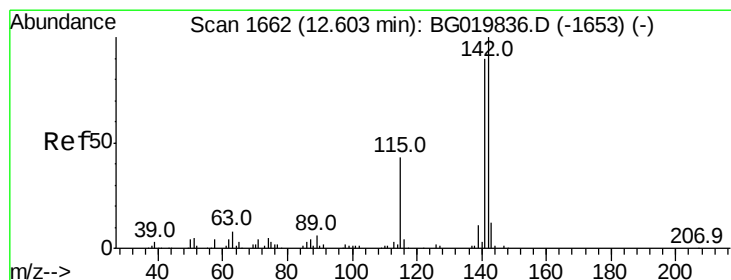
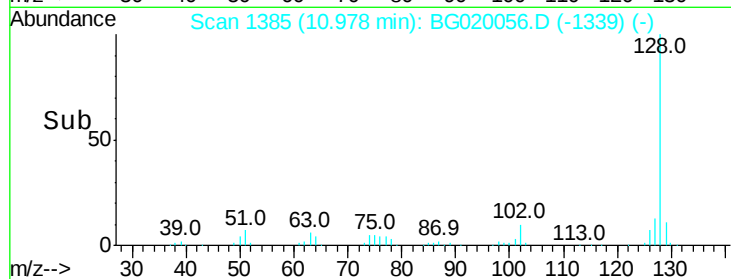
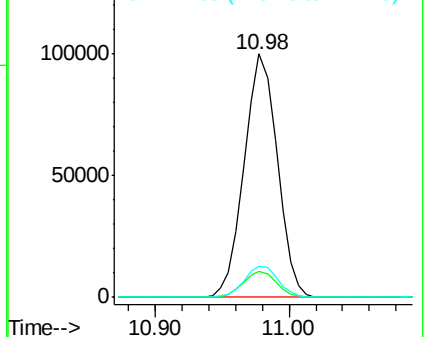
127 13.0 10.6 16.0



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#37

2-Methylnaphthalene

Concen: 10.24 ng

RT: 12.58 min Scan# 1657

Delta R.T. -0.03 min

Lab File: BG020056.D

Acq: 9 Dec 2015 23:11

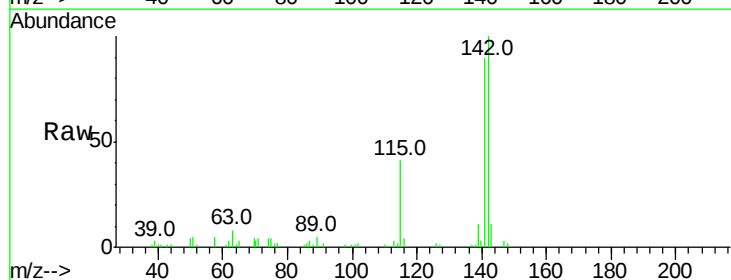
Tgt Ion:142 Resp: 37385

Ion Ratio Lower Upper

142 100

141 90.2 74.6 112.0

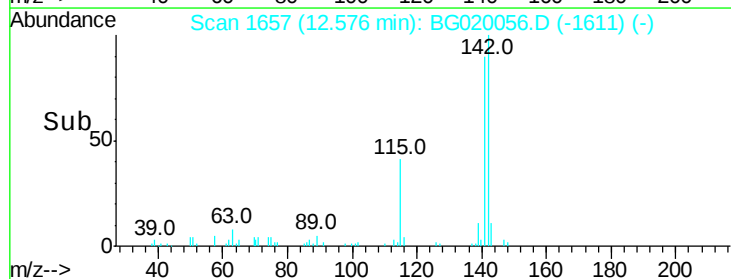
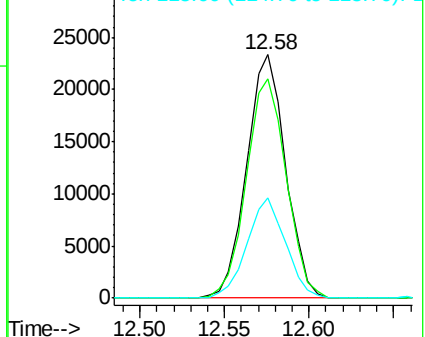
115 41.1 27.4 41.0#

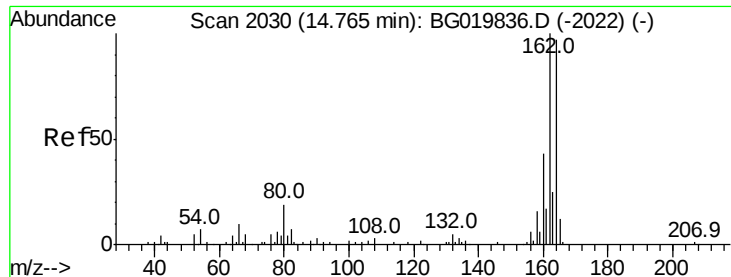


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.74 min Scan# 2025

Delta R.T. -0.03 min

Lab File: BG020056.D

Acq: 9 Dec 2015 23:11

Instrument :

BNA_G

ClientSampled :

KENT-PIT-2

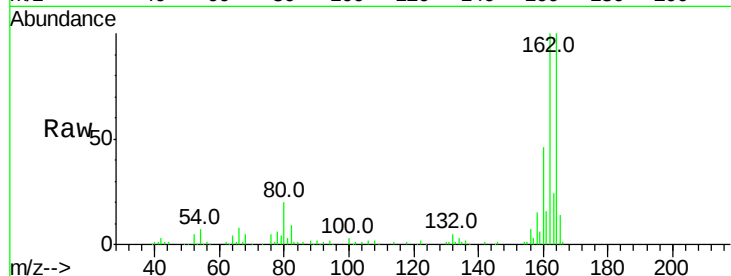
Tot Ion:164 Resp: 61609

Ion Ratio Lower Upper

164 100

162 99.8 78.8 118.2

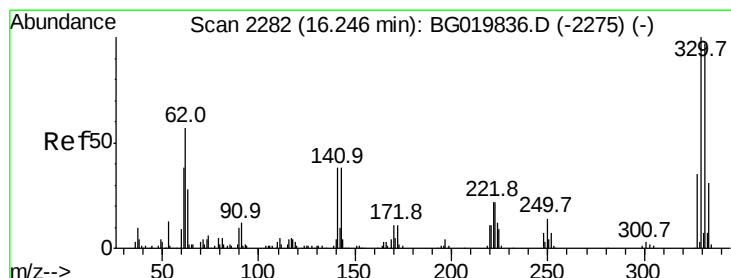
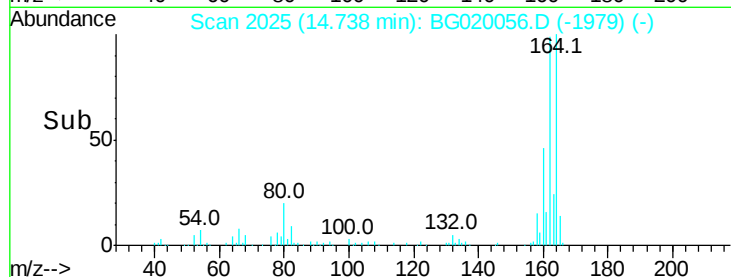
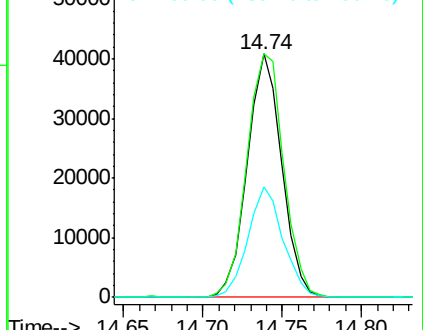
160 45.5 36.4 54.6



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 76.14 ng

RT: 16.22 min Scan# 2278

Delta R.T. -0.02 min

Lab File: BG020056.D

Acq: 9 Dec 2015 23:11

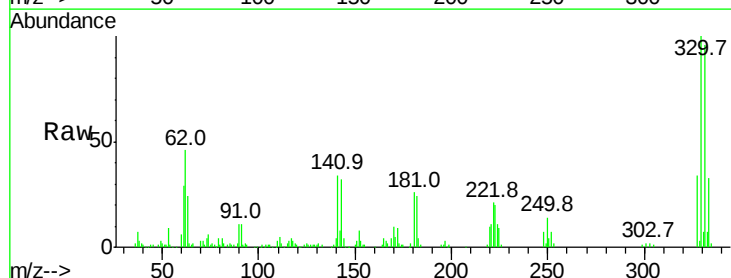
Tgt Ion:330 Resp: 71771

Ion Ratio Lower Upper

330 100

332 96.5 78.1 117.1

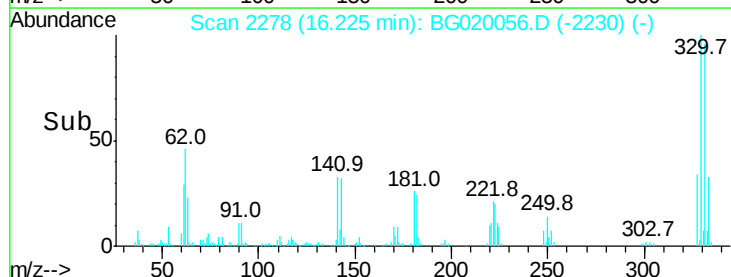
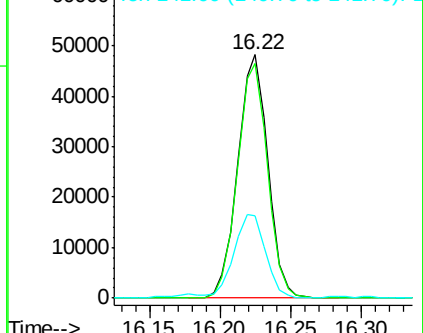
141 35.9 28.2 42.2

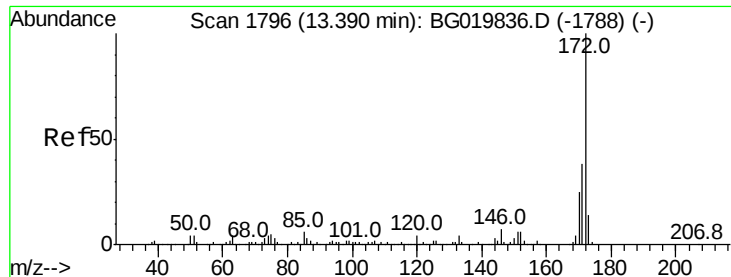


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#44

2-Fluorobiphenyl

Concen: 82.18 ng

RT: 13.36 min Scan# 1791

Delta R.T. -0.03 min

Lab File: BG020056.D

Acq: 9 Dec 2015 23:11

Instrument :

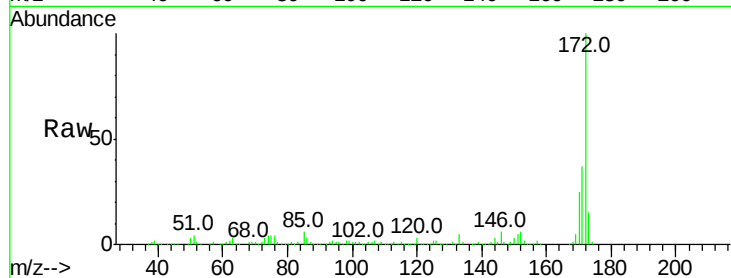
BNA_G

ClientSampleId :

KENT-PIT-2

Tot Ion:172 Resp: 370803

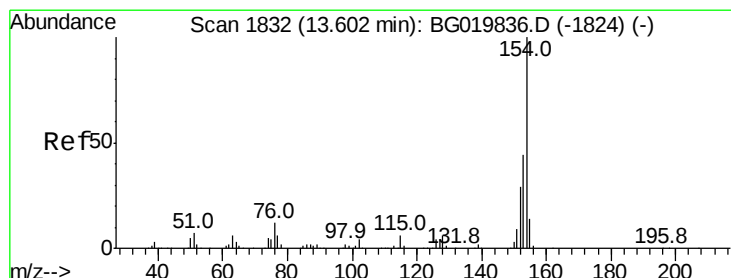
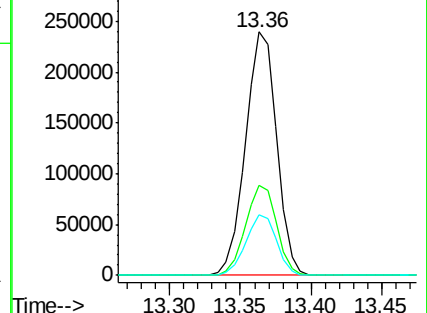
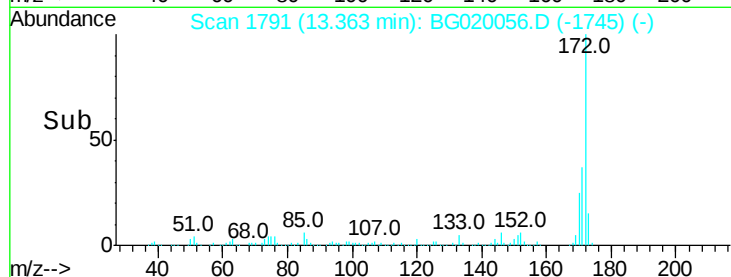
Ion	Ratio	Lower	Upper
172	100		
171	37.0	29.0	43.6
170	24.6	19.9	29.9



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



#45

1,1'-Biphenyl

Concen: 4.44 ng

RT: 13.57 min Scan# 1827

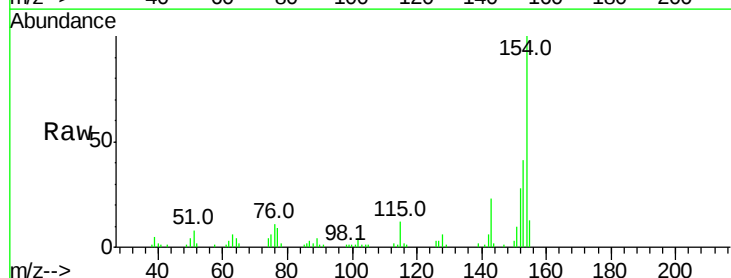
Delta R.T. -0.03 min

Lab File: BG020056.D

Acq: 9 Dec 2015 23:11

Tgt Ion:154 Resp: 22448

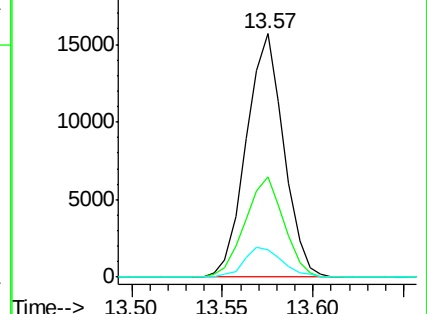
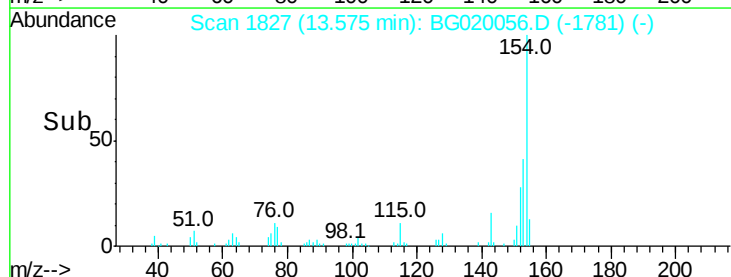
Ion	Ratio	Lower	Upper
154	100		
153	41.3	21.9	61.9
76	11.2	0.0	33.2

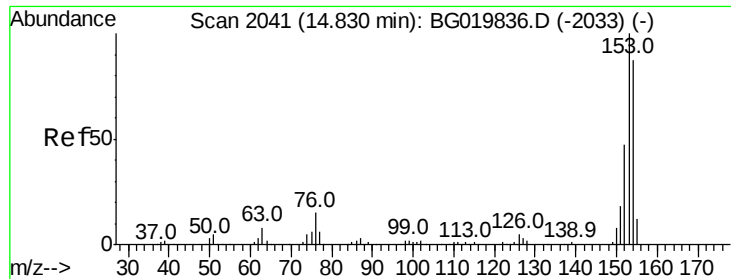


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BG





#51

Acenaphthene

Concen: 25.15 ng

RT: 14.80 min Scan# 2036

Delta R.T. -0.03 min

Lab File: BG020056.D

Acq: 9 Dec 2015 23:11

Instrument :

BNA_G

ClientSampleId :

KENT-PIT-2

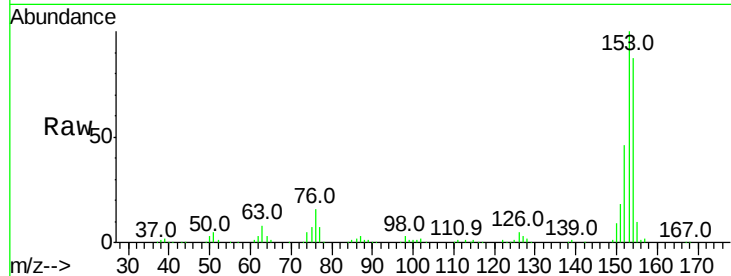
Tot Ion:154 Resp: 101304

Ion Ratio Lower Upper

154 100

153 115.4 92.9 139.3

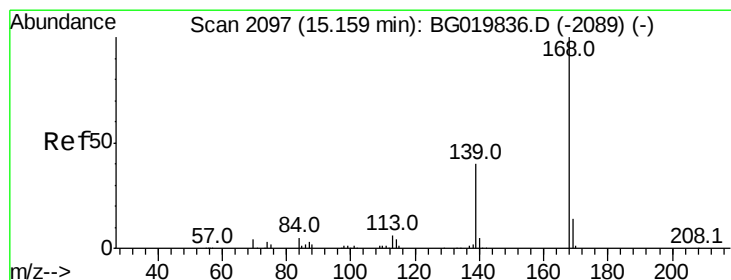
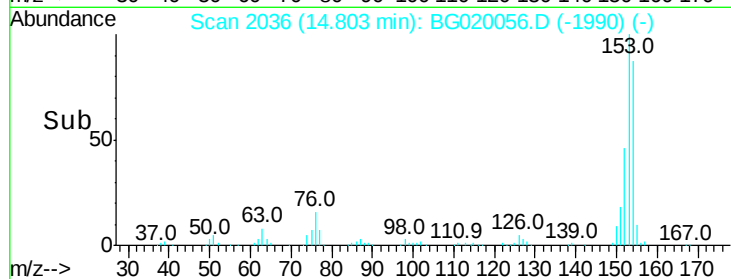
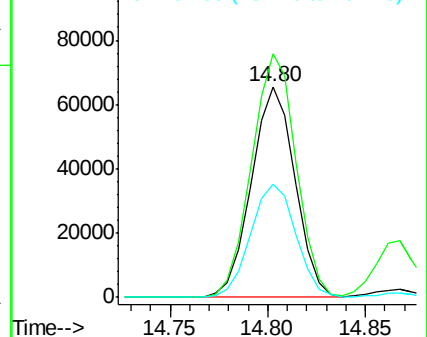
152 53.6 45.8 68.8



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



#54

Dibenzofuran

Concen: 25.69 ng

RT: 15.14 min Scan# 2093

Delta R.T. -0.02 min

Lab File: BG020056.D

Acq: 9 Dec 2015 23:11

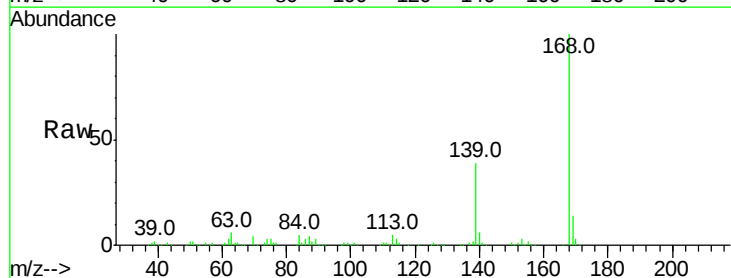
Tgt Ion:168 Resp: 153919

Ion Ratio Lower Upper

168 100

139 38.6 27.4 41.0

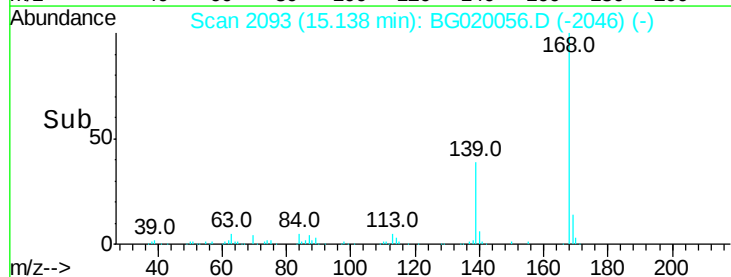
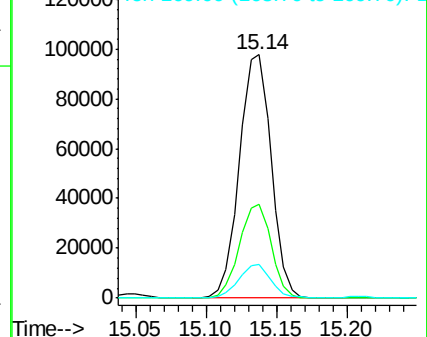
169 13.6 11.0 16.4

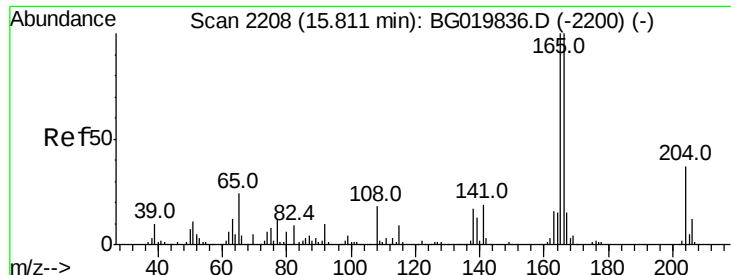


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

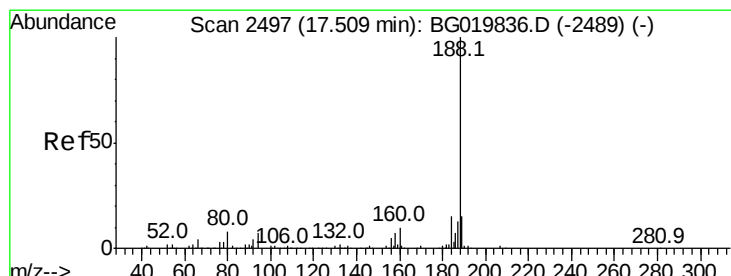
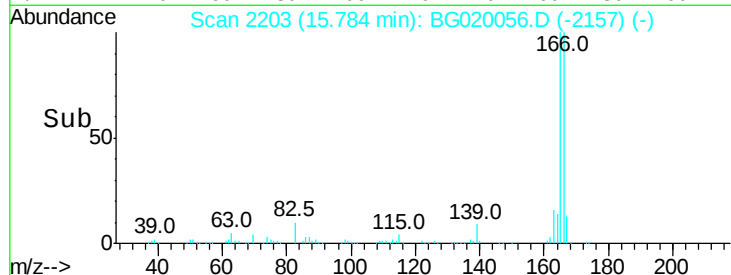
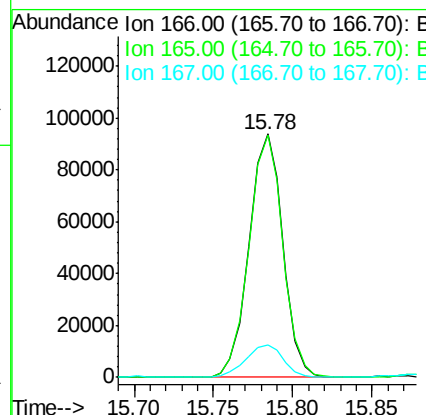
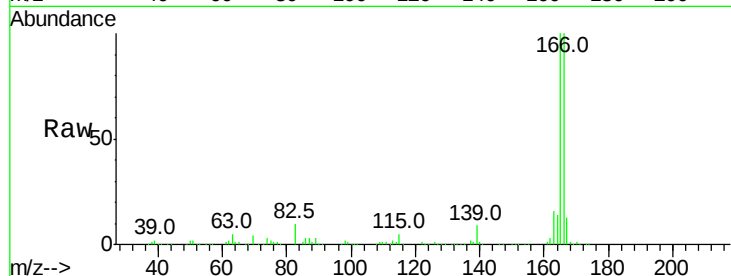




#57
Fluorene
 Concen: 25.82 ng
 RT: 15.78 min Scan# 2203
 Delta R.T. -0.03 min
 Lab File: BG020056.D
 Acq: 9 Dec 2015 23:11

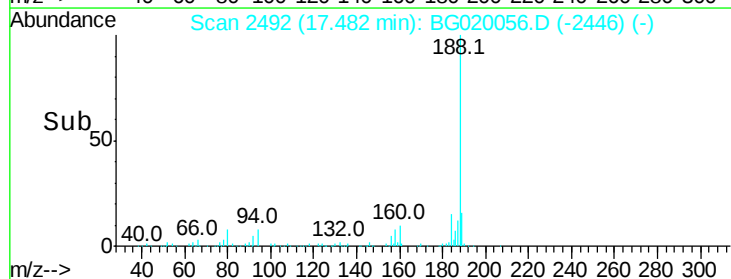
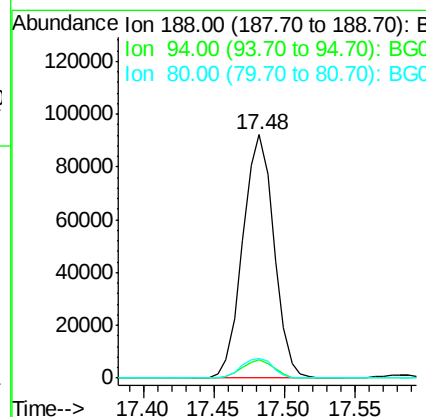
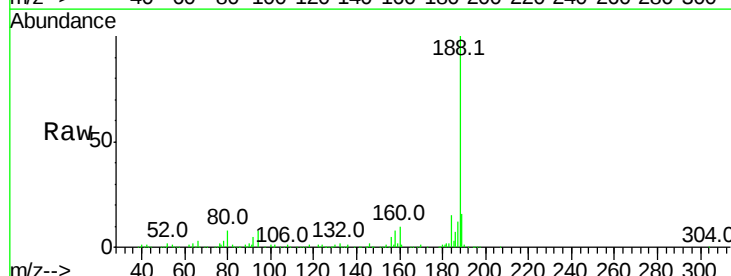
Instrument :
 BNA_G
 ClientSampleId :
 KENT-PIT-2

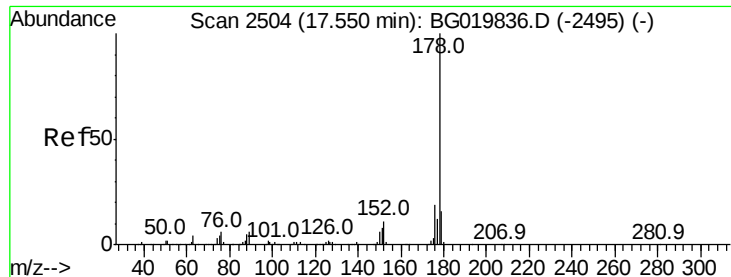
Tot Ion	Ratio	Lower	Upper
166	100		
165	99.7	80.0	120.0
167	13.3	11.1	16.7



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 17.48 min Scan# 2492
 Delta R.T. -0.03 min
 Lab File: BG020056.D
 Acq: 9 Dec 2015 23:11

Tgt Ion	Ratio	Lower	Upper
188	100		
94	7.6	7.7	11.5#
80	7.8	7.8	11.8#





#70

Phenanthrene

Concen: 54.92 ng

RT: 17.52 min Scan# 2499

Delta R.T. -0.03 min

Lab File: BG020056.D

Acq: 9 Dec 2015 23:11

Instrument :

BNA_G

ClientSampleId :

KENT-PIT-2

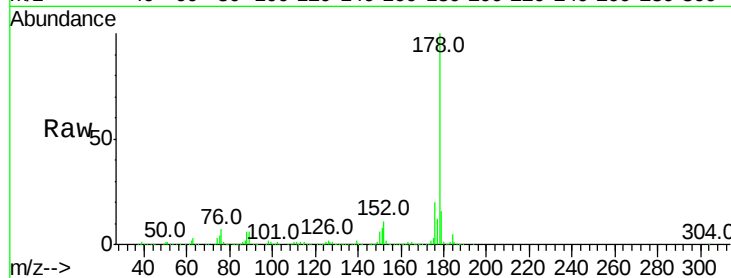
Tot Ion:178 Resp: 443741

Ion Ratio Lower Upper

178 100

176 19.6 16.7 25.1

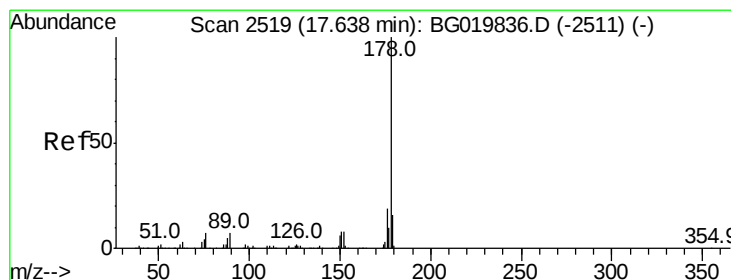
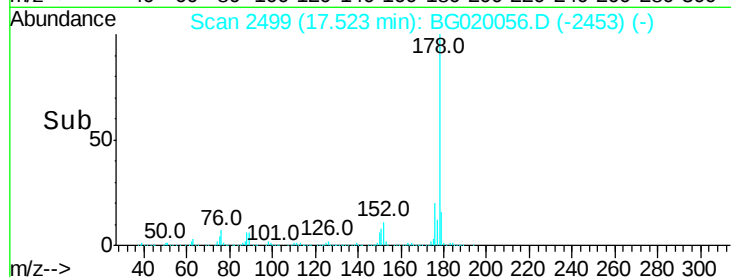
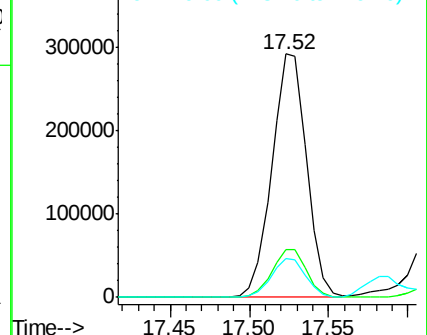
179 15.9 13.9 20.9



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



#71

Anthracene

Concen: 14.38 ng

RT: 17.61 min Scan# 2514

Delta R.T. -0.03 min

Lab File: BG020056.D

Acq: 9 Dec 2015 23:11

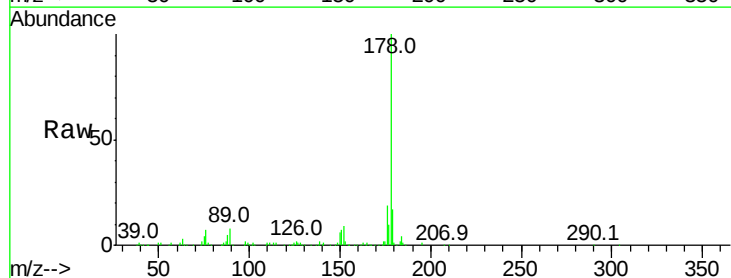
Tgt Ion:178 Resp: 118388

Ion Ratio Lower Upper

178 100

176 18.9 16.8 25.2

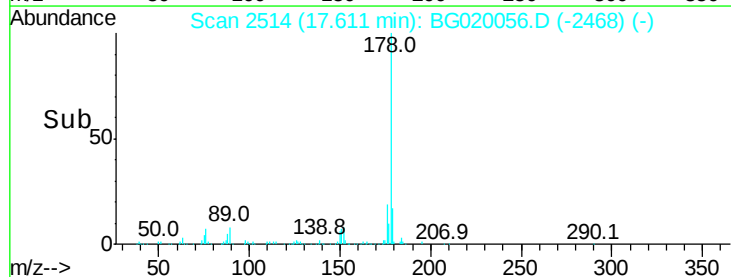
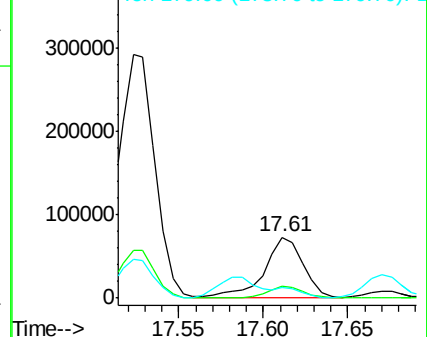
179 17.4 13.9 20.9

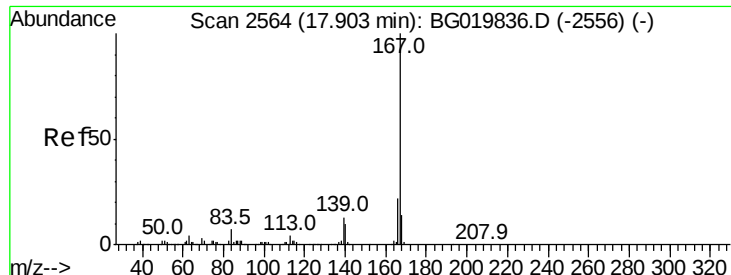


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

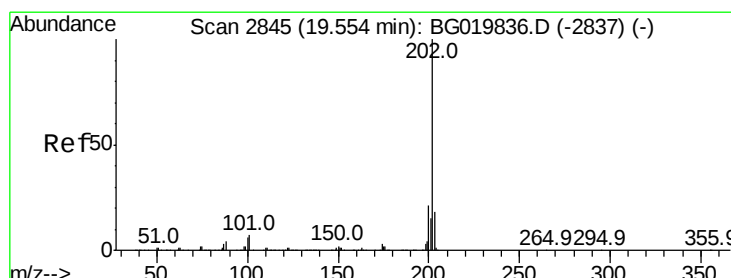
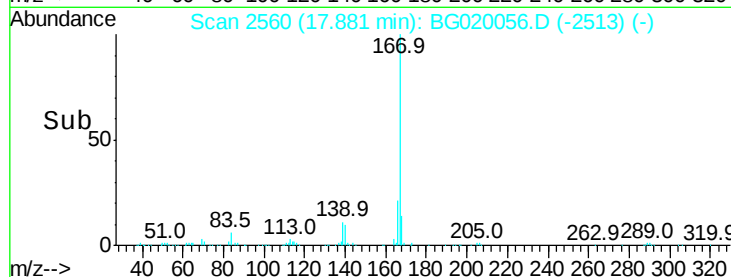
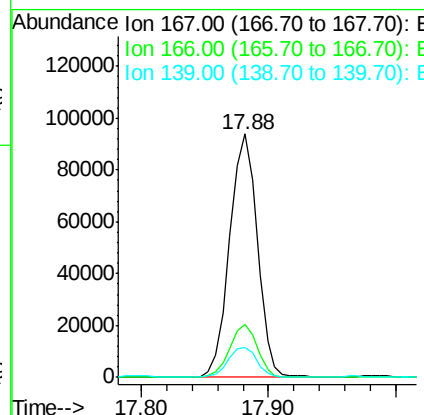
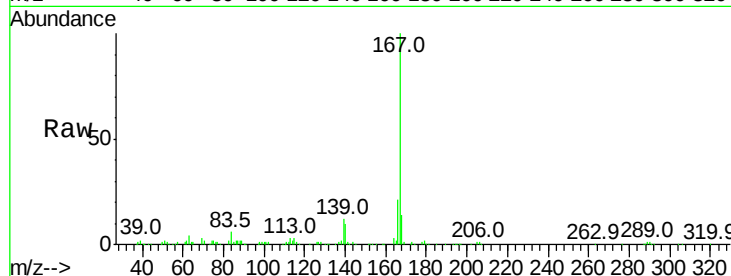




#72
 Carbazole
 Concen: 19.57 ng
 RT: 17.88 min Scan# 2560
 Delta R.T. -0.02 min
 Lab File: BG020056.D
 Acq: 9 Dec 2015 23:11

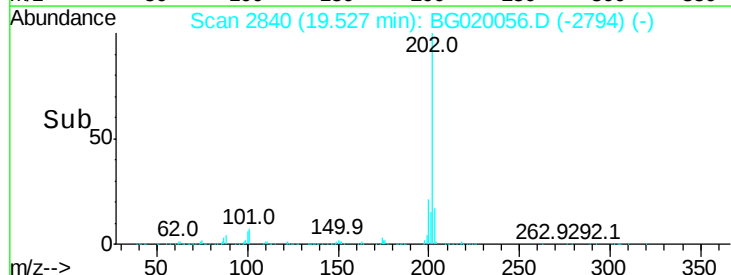
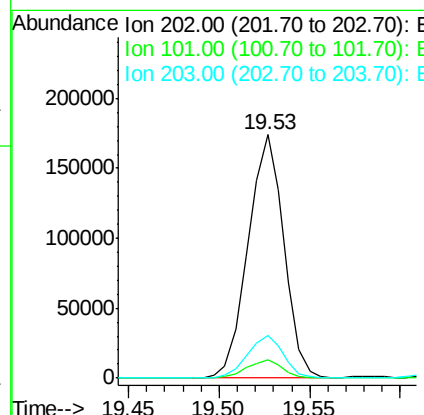
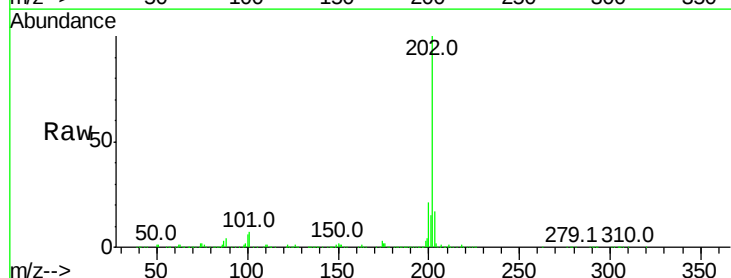
Instrument :
 BNA_G
 ClientSampleId :
 KENT-PIT-2

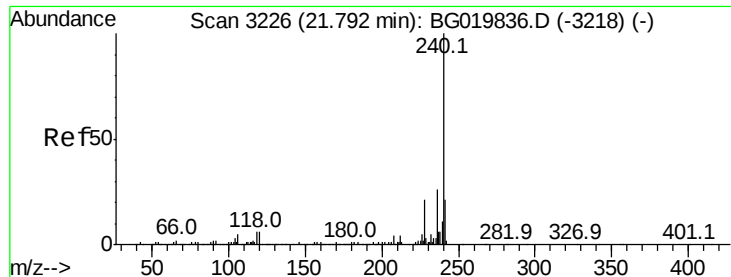
Tot Ion	Ratio	Lower	Upper
167	100		
166	21.5	19.0	28.6
139	12.4	10.2	15.4



#74
 Fluoranthene
 Concen: 23.07 ng
 RT: 19.53 min Scan# 2840
 Delta R.T. -0.03 min
 Lab File: BG020056.D
 Acq: 9 Dec 2015 23:11

Tgt Ion	Ratio	Lower	Upper
202	100		
101	7.4	0.0	32.4
203	17.3	0.0	39.5

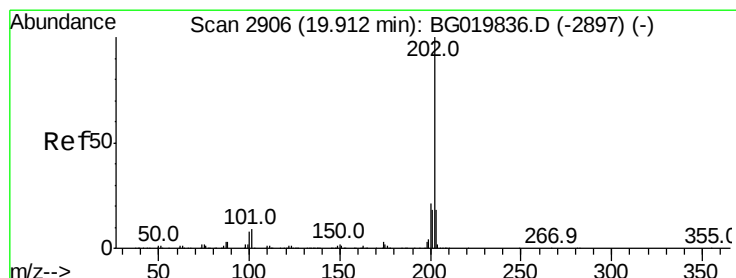
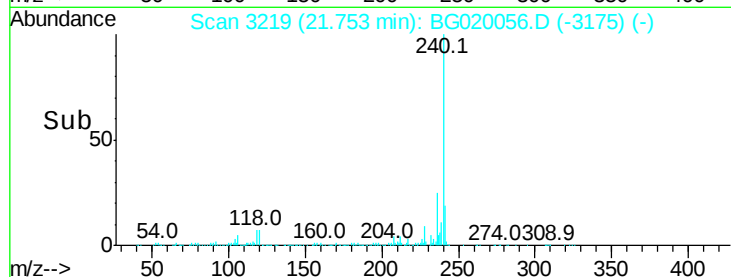
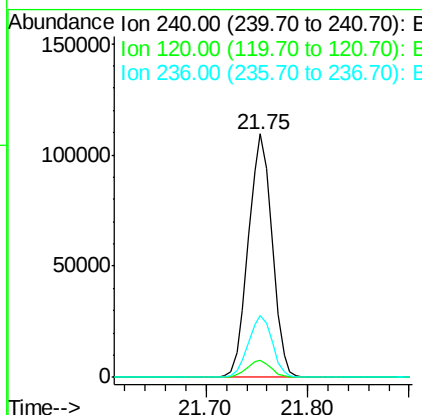
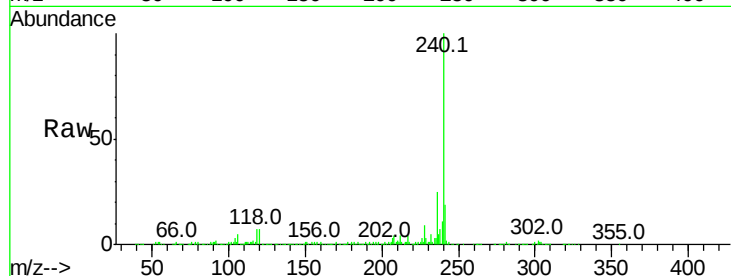




#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 21.75 min Scan# 3219
 Delta R.T. -0.04 min
 Lab File: BG020056.D
 Acq: 9 Dec 2015 23:11

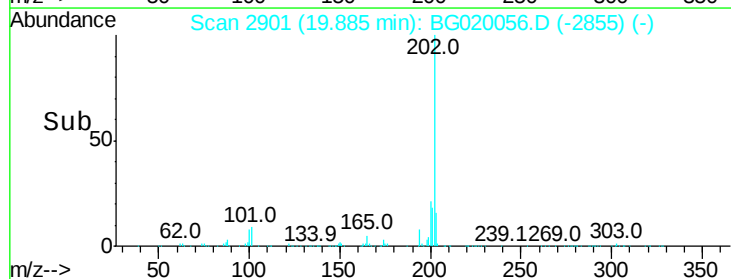
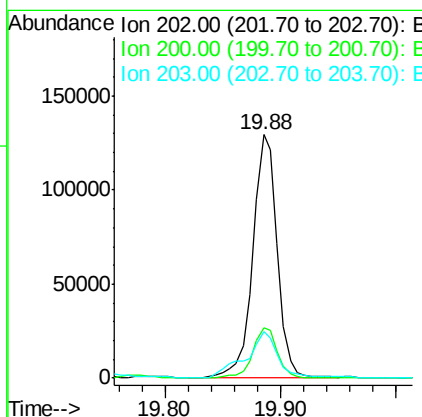
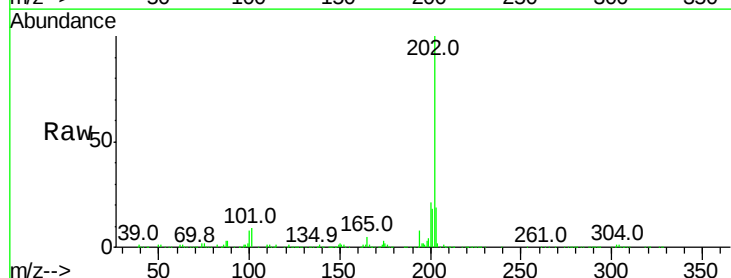
Instrument :
 BNA_G
 ClientSampleId :
 KENT-PIT-2

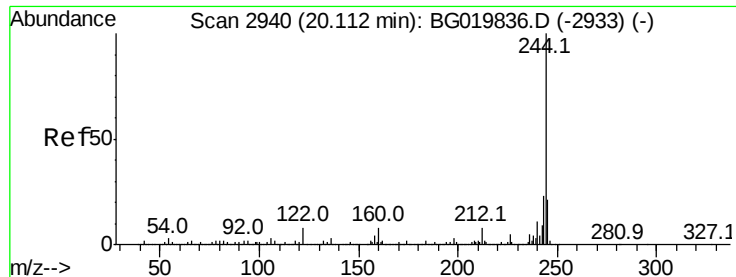
Tot Ion	Ratio	Lower	Upper
240	100		
120	6.8	7.4	11.0#
236	25.3	20.7	31.1



#77
 Pyrene
 Concen: 18.11 ng
 RT: 19.88 min Scan# 2901
 Delta R.T. -0.03 min
 Lab File: BG020056.D
 Acq: 9 Dec 2015 23:11

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.8	19.4	29.0
203	19.0	15.5	23.3





#78

Terphenyl-d14

Concen: 82.56 ng

RT: 20.08 min Scan# 2934

Delta R.T. -0.03 min

Lab File: BG020056.D

Acq: 9 Dec 2015 23:11

Instrument :

BNA_G

ClientSampleId :

KENT-PIT-2

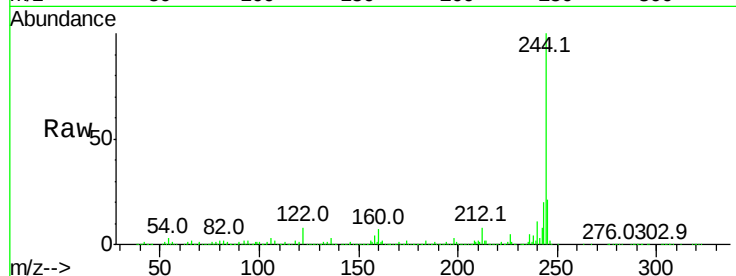
Tot Ion:244 Resp: 599965

Ion Ratio Lower Upper

244 100

212 7.9 6.9 10.3

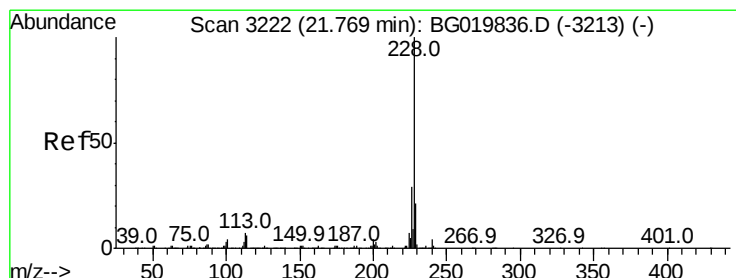
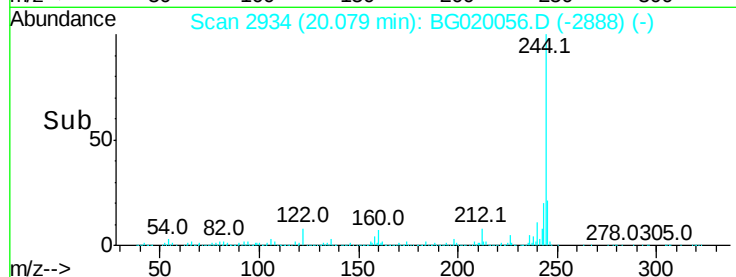
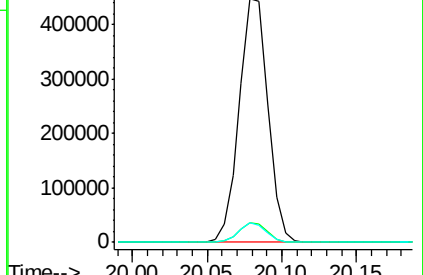
122 7.9 10.2 15.2#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 8.30 ng

RT: 21.73 min Scan# 3215

Delta R.T. -0.04 min

Lab File: BG020056.D

Acq: 9 Dec 2015 23:11

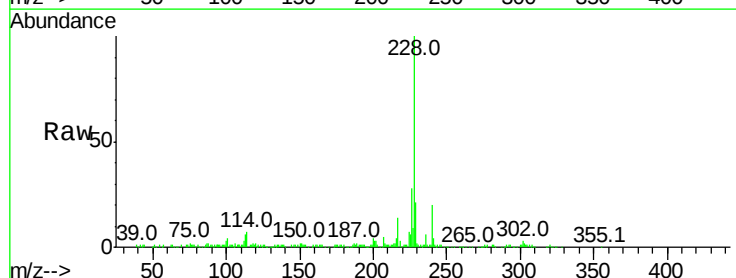
Tgt Ion:228 Resp: 90055

Ion Ratio Lower Upper

228 100

226 28.2 23.4 35.0

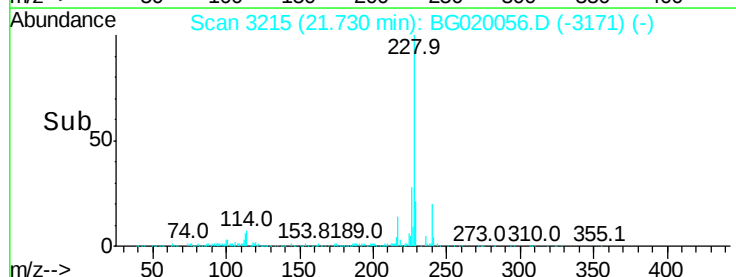
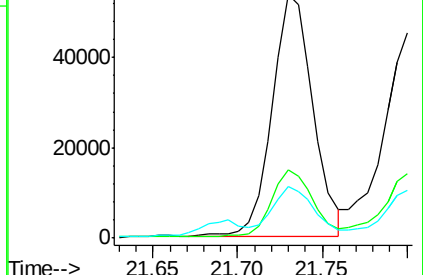
229 21.4 16.6 25.0

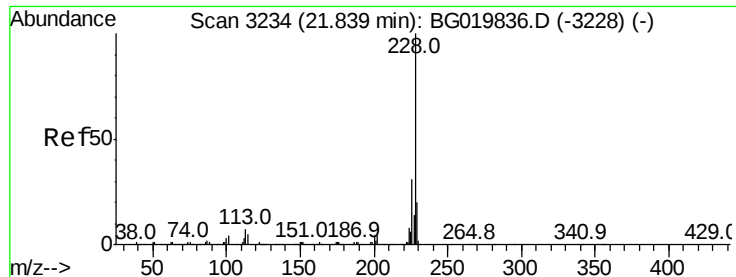


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 7.58 ng

RT: 21.80 min Scan# 3227

Delta R.T. -0.04 min

Lab File: BG020056.D

Acq: 9 Dec 2015 23:11

Instrument :

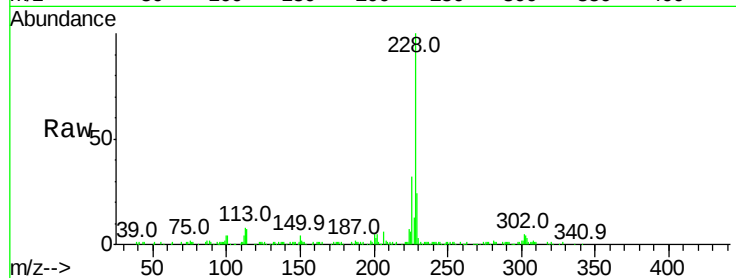
BNA_G

ClientSampleId :

KENT-PIT-2

Tot Ion:228 Resp: 78067

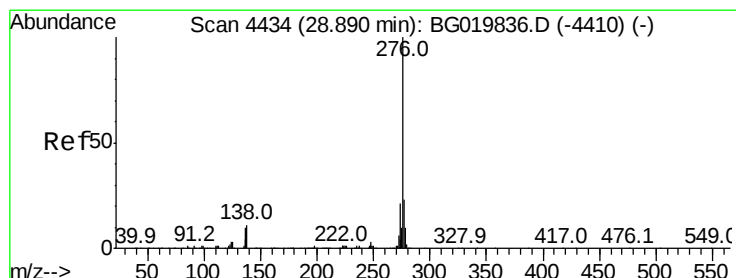
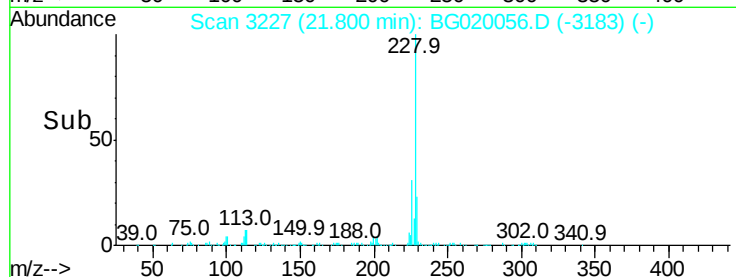
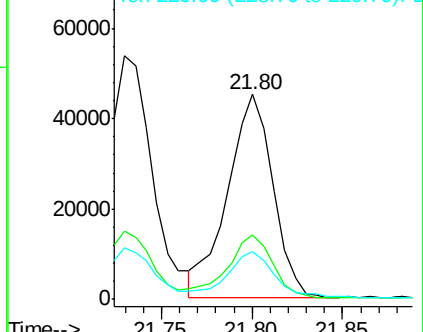
Ion	Ratio	Lower	Upper
228	100		
226	31.5	26.7	40.1
229	23.5	17.0	25.6



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: 3.57 ng

RT: 28.76 min Scan# 4411

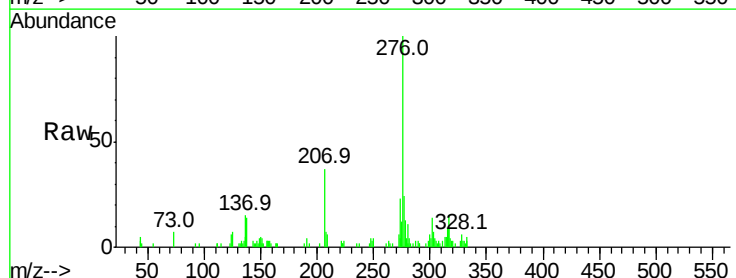
Delta R.T. -0.13 min

Lab File: BG020056.D

Acq: 9 Dec 2015 23:11

Tgt Ion:276 Resp: 40569

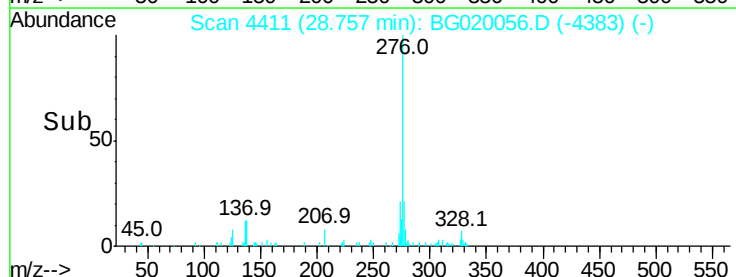
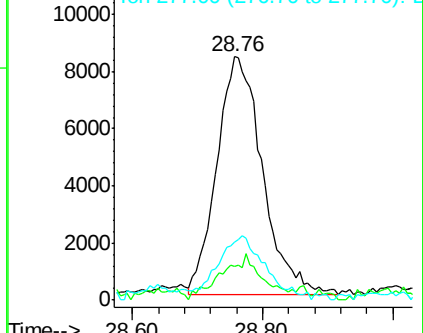
Ion	Ratio	Lower	Upper
276	100		
138	17.3	0.0	0.0#
277	27.8	0.0	0.0#

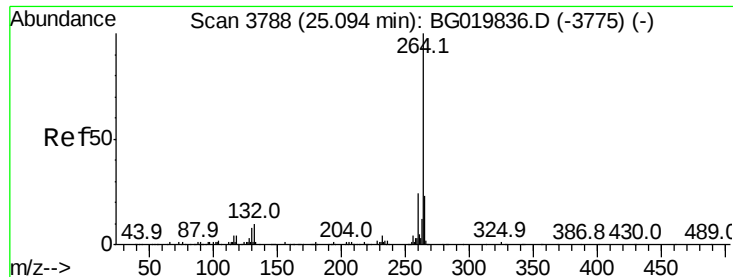


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

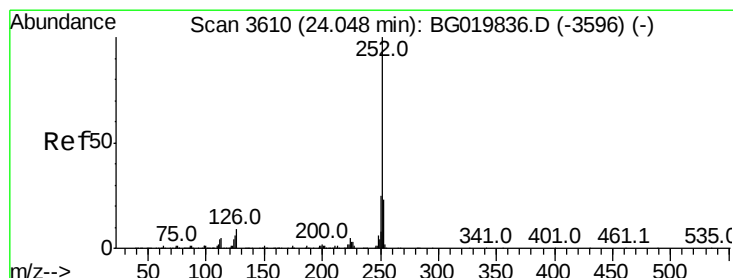
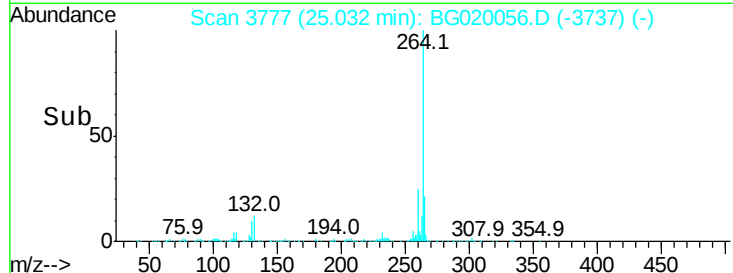
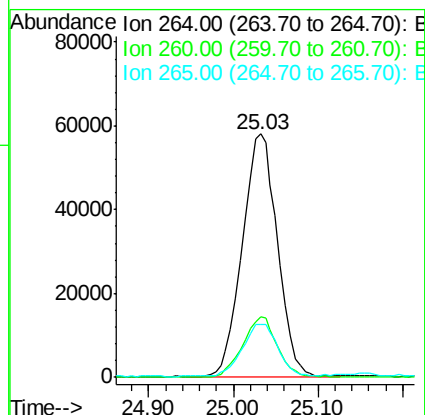
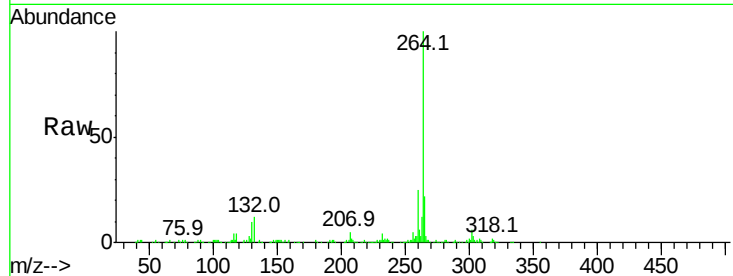




#86
Pervlene-d12
Concen: 20.00 ng
RT: 25.03 min Scan# 3777
Delta R.T. -0.06 min
Lab File: BG020056.D
Acq: 9 Dec 2015 23:11

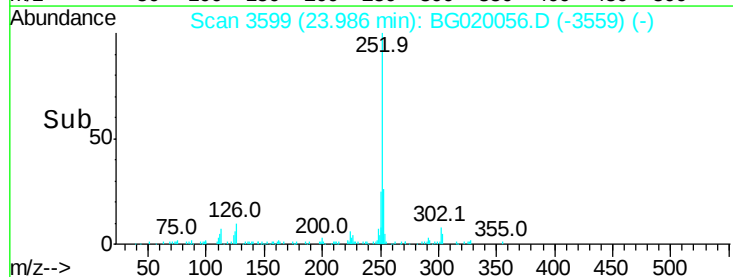
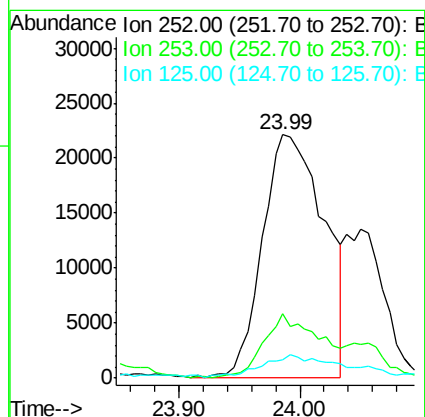
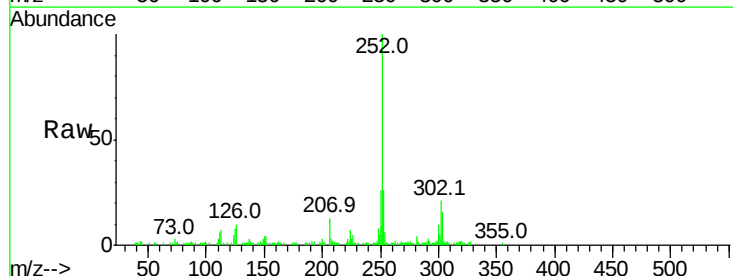
Instrument :
BNA_G
ClientSampleId :
KENT-PIT-2

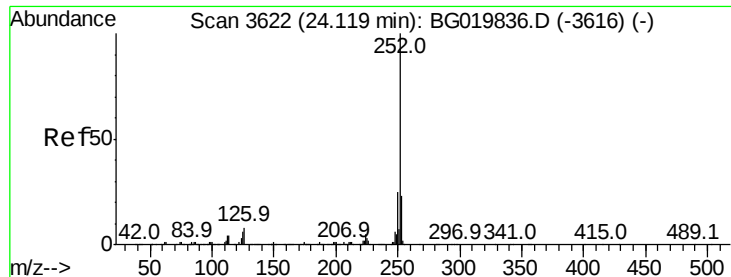
Tot Ion	Ratio	Lower	Upper
264	100		
260	24.9	18.5	27.7
265	21.5	17.2	25.8



#87
Benzo(b)fluoranthene
Concen: 7.34 ng
RT: 23.99 min Scan# 3599
Delta R.T. -0.06 min
Lab File: BG020056.D
Acq: 9 Dec 2015 23:11

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.3	19.1	28.7
125	7.5	8.9	13.3





#88

Benzo(k)fluoranthene

Concen: 2.86 ng m

RT: 24.05 min Scan# 3610

Delta R.T. -0.07 min

Lab File: BG020056.D

Acq: 9 Dec 2015 23:11

Instrument :

BNA_G

ClientSampleId :

KENT-PIT-2

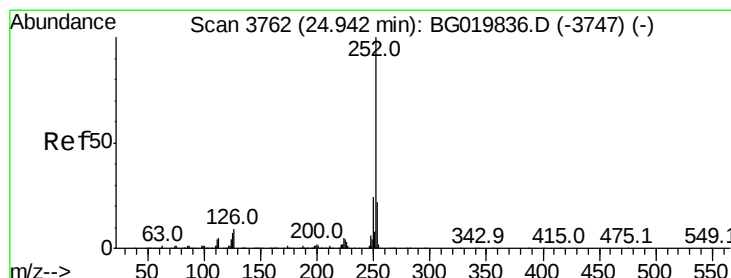
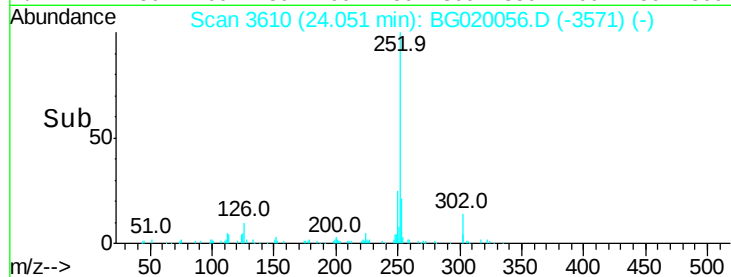
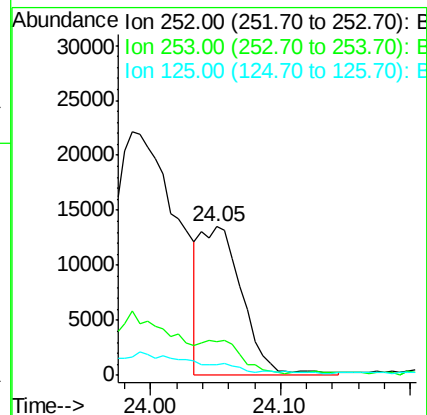
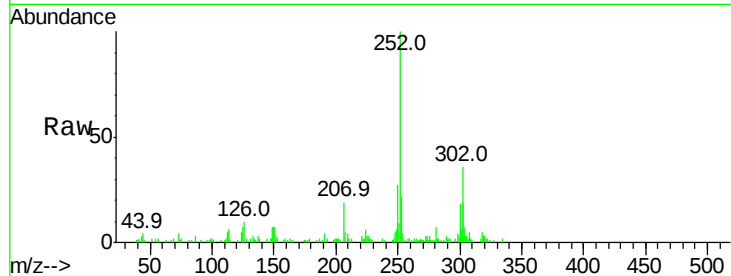
Tot Ion:252 Resp: 30248

Ion Ratio Lower Upper

252 100

253 22.4 19.0 28.4

125 7.2 8.9 13.3#



#89

Benzo(a)pyrene

Concen: 6.31 ng m

RT: 24.87 min Scan# 3750

Delta R.T. -0.07 min

Lab File: BG020056.D

Acq: 9 Dec 2015 23:11

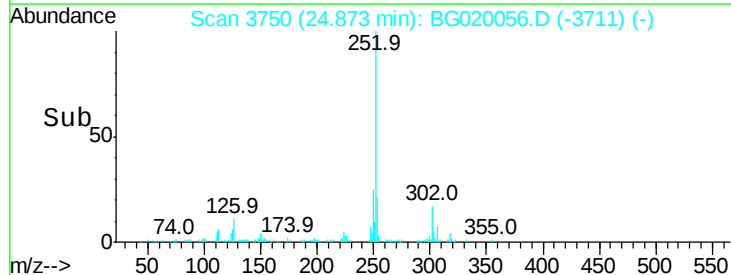
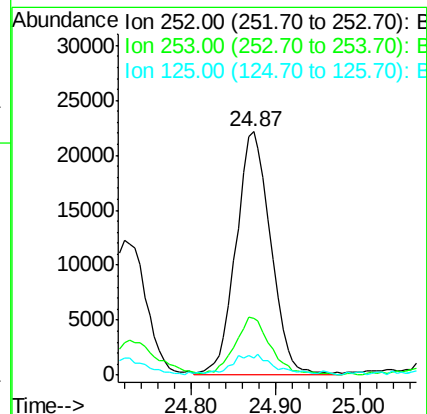
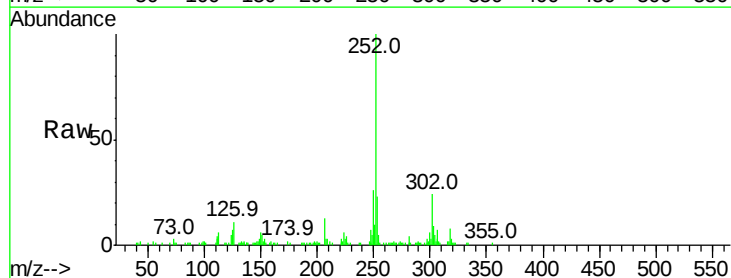
Tgt Ion:252 Resp: 64005

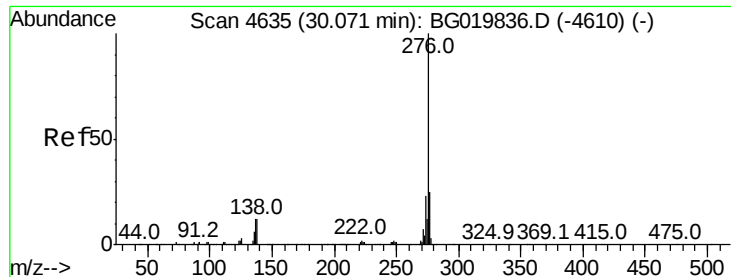
Ion Ratio Lower Upper

252 100

253 23.1 18.7 28.1

125 7.0 9.1 13.7#





#91

Benzo(a,h,i)perylene

Concen: 3.68 ng

RT: 29.93 min Scan# 4611

Delta R.T. -0.14 min

Lab File: BG020056.D

Acq: 9 Dec 2015 23:11

Instrument :

BNA_G

ClientSampleId :

KENT-PIT-2

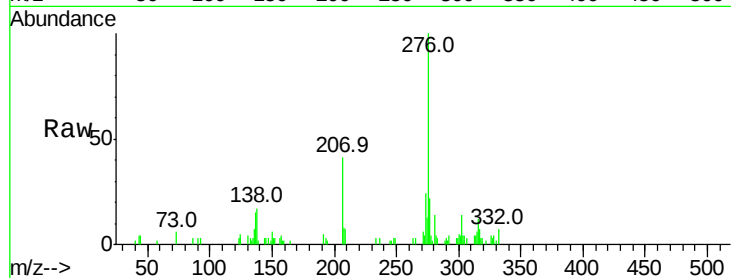
Tot Ion: 276 Resp: 36198

Ion Ratio Lower Upper

276 100

277 22.0 18.4 27.6

138 17.1 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

