

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG080319\
 Data File : BG041960.D
 Acq On : 5 Aug 2019 9:37
 Operator : HP/JU
 Sample : K3850-02DL2 30X
 Misc :
 ALS Vial : 61 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Aug 05 11:43:24 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Aug 05 11:40:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.06	152	59456	20.00	ng/ul	0.02
18) Naphthalene-d8	10.88	136	240133	20.00	ng/ul	0.02
35) Acenaphthene-d10	14.71	164	158880	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.55	188	20710	20.00	ng/ul	0.10
77) Chrysene-d12	21.74	240	333833	20.00	ng/ul	0.00
85) Perylene-d12	25.02	264	379139	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	0.00	96	0	0.00	ng/uL	
5) Phenol-d5	7.22	99	3372	0.72	ng/ul	0.03
7) Bis-(2-Chloroethyl)ether-d	7.38	67	2260	0.87	ng/ul	0.03
9) 2-Chlorophenol-d4	7.59	132	3683	0.92	ng/ul	0.03
13) 4-Methylphenol-d8	8.77	113	2791	0.71	ng/ul	0.03
19) Nitrobenzene-d5	9.23	128	1658	0.92	ng/ul	0.02
22) 2-Nitrophenol-d4	9.96	143	1822	0.87	ng/ul	0.02
26) 2,4-Dichlorophenol-d3	10.51	165	2383	0.56	ng/ul	0.04
29) 4-Chloroaniline-d4	11.02	131	3193	0.68	ng/ul	0.03
43) Dimethylphthalate-d6	14.10	166	12305	1.00	ng/ul	0.00
46) Acenaphthylene-d8	14.40	160	16813	1.19	ng/ul	0.00
51) 4-Nitrophenol-d4	14.90	143	309	0.15	ng/ul	0.02
57) Fluorene-d10	15.70	176	12519	1.14	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.86	200	56	0.42	ng/ul	0.05
70) Anthracene-d10	17.55	188	20710	20.84	ng/ul	0.00
78) Pyrene-d10	19.84	212	22336	1.20	ng/ul	0.00
89) Benzo(a)pyrene-d12	24.80	264	21583	1.09	ng/ul	0.00

Target Compounds

					Ovalue	
28) Naphthalene	10.93	128	99333	8.091	ng/ul	99
30) 4-Chloroaniline	10.93	127	12795	2.708	ng/ul#	10
34) 2-Methylnaphthalene	12.53	142	95246	9.761	ng/ul	100
40) 1,1'-Biphenyl	13.54	154	14564	1.261	ng/ul#	97
49) Acenaphthene	14.77	153	140708	14.165	ng/ul	98
53) Dibenzofuran	15.10	168	23285	1.571	ng/ul#	83
58) Fluorene	15.75	166	115066	9.636	ng/ul	94
63) 4,6-Dinitro-2-methylphenol	16.25	198	210	1.467	ng/ul#	1
64) N-Nitrosodiphenylamine	16.03	169	6717	10.932	ng/ul#	20
69) Phenanthrene	17.59	178	367663	324.282	ng/ul	99
71) Anthracene	17.59	178	367663	319.730	ng/ul	98
75) Di-n-butylphthalate	18.52	149	1538	1.310	ng/ul#	1
76) Fluoranthene	19.51	202	1011646	772.256	ng/ul	98
79) Pyrene	19.87	202	1598196	71.172	ng/ul	99
82) Benzo(a)anthracene	21.72	228	886742	38.310	ng/ul	98
83) Bis(2-ethylhexyl)phthalate	21.63	149	34466	2.858	ng/ul	99
84) Chrysene	21.79	228	910656	42.153	ng/ul	98
87) Benzo(b)fluoranthene	23.99	252	623361	26.199	ng/ul	98
88) Benzo(k)fluoranthene	23.99	252	623361	27.249	ng/ul	99
90) Benzo(a)pyrene	24.87	252	637327	28.110	ng/ul	98
91) Indeno(1,2,3-cd)pyrene	28.77	276	236009	8.925	ng/ul	98
92) Dibenzo(a,h)anthracene	28.82	278	86258	3.999	ng/ul	96
93) Benzo(g,h,i)perylene	29.93	276	240525	10.894	ng/ul	98

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Quant Title : SVOA CALIBRATION
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Response via : Initial Calibration

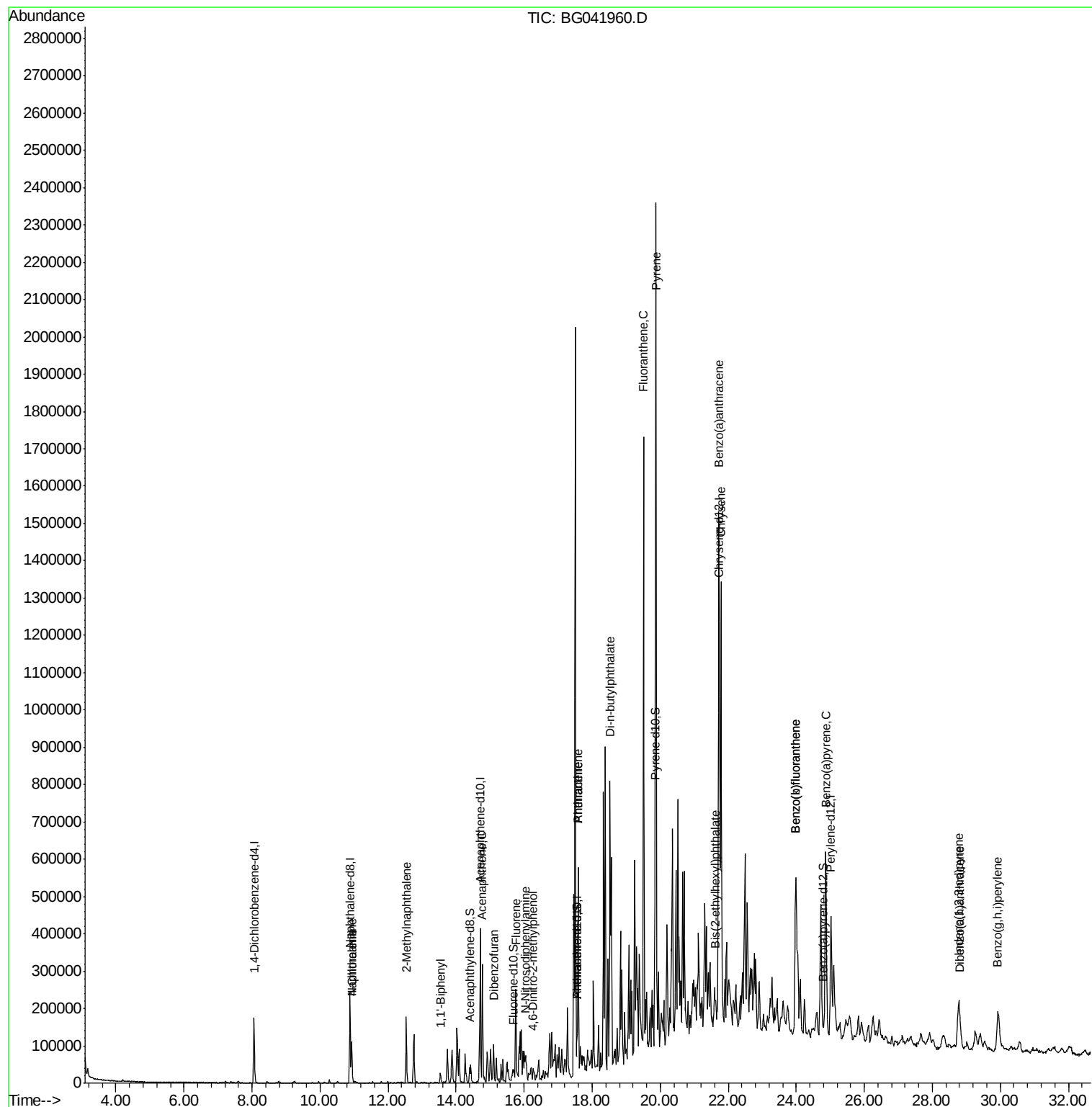
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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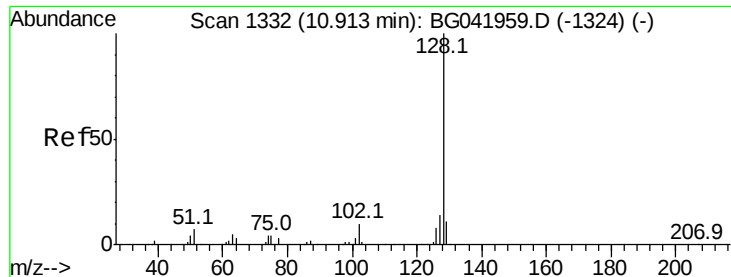
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#28

Naphthalene

Concen: 8.091 ng/ul

RT: 10.93 min Scan# 1335

Delta R.T. 0.02 min

Lab File: BG041960.D

Acq: 5 Aug 2019 9:37

Instrument :

BNA_G

ClientSampleId :

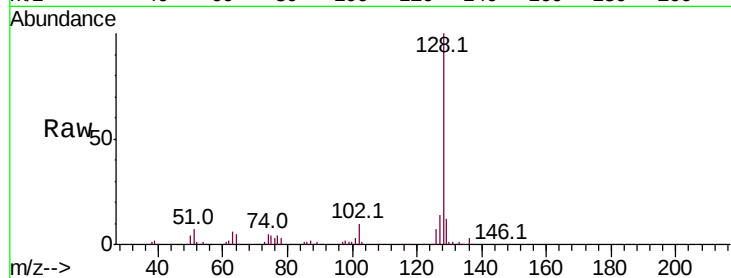
Tot Ion:128 Resp: 99333

Ion Ratio Lower Upper

128 100

129 11.6 9.5 14.3

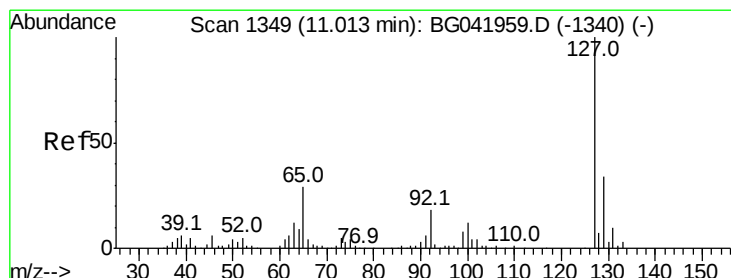
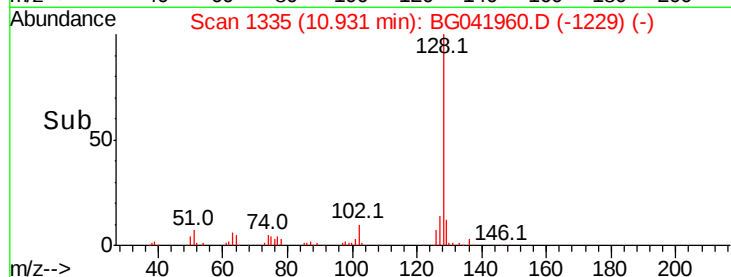
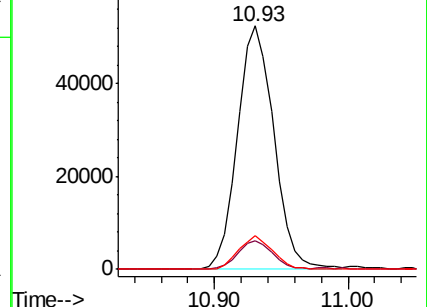
127 13.8 11.4 17.0



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



#30

4-Chloroaniline

Concen: 2.708 ng/ul

RT: 10.93 min Scan# 1335

Delta R.T. -0.08 min

Lab File: BG041960.D

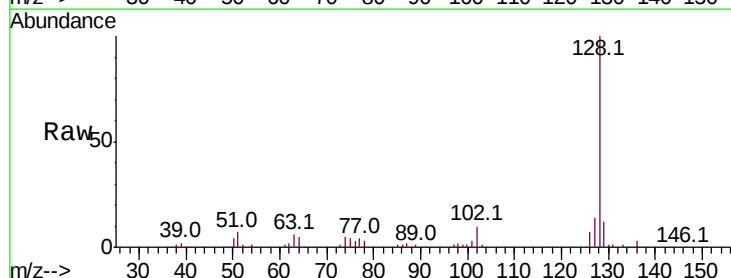
Acq: 5 Aug 2019 9:37

Tgt Ion:127 Resp: 12795

Ion Ratio Lower Upper

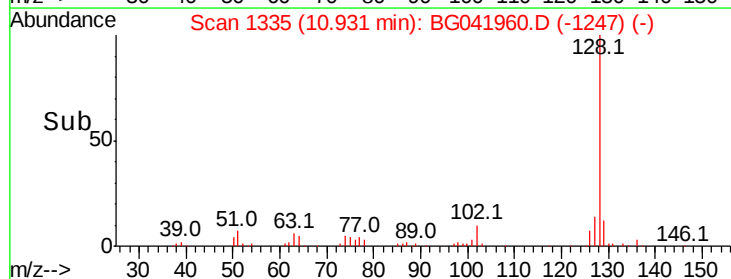
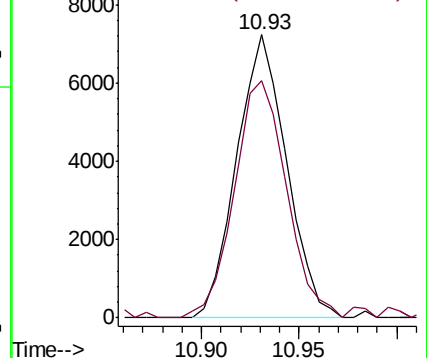
127 100

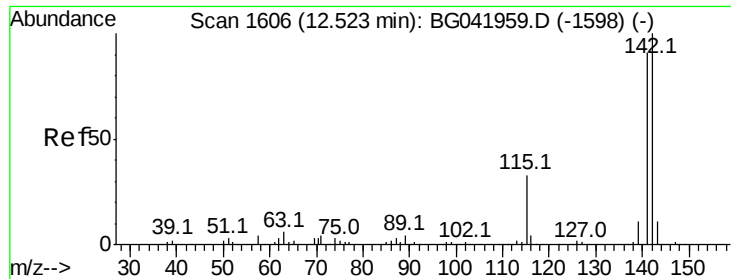
129 83.9 26.5 39.7#



Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

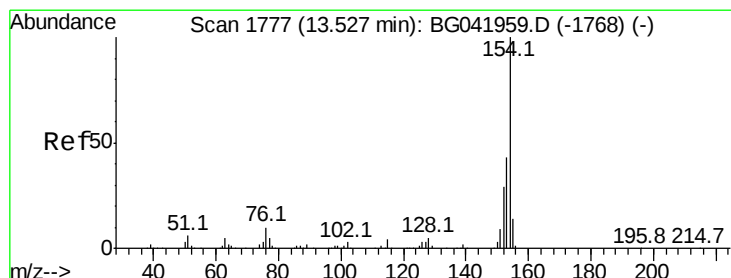
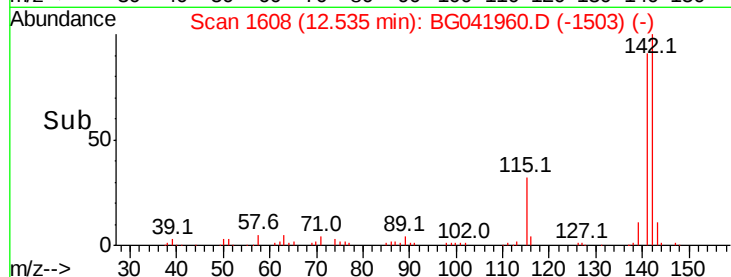
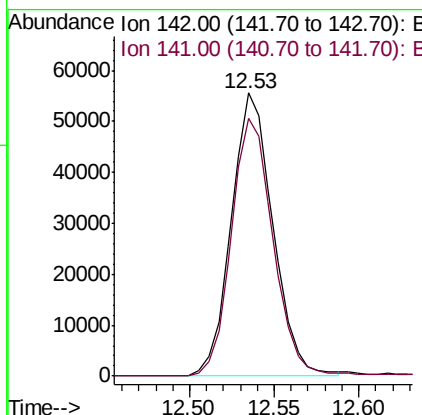
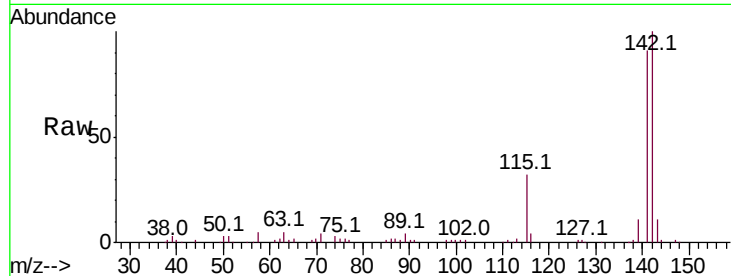




#34
 2-Methylnaphthalene
 Concen: 9.761 ng/ul
 RT: 12.53 min Scan# 1608
 Delta R.T. 0.02 min
 Lab File: BG041960.D
 Acq: 5 Aug 2019 9:37

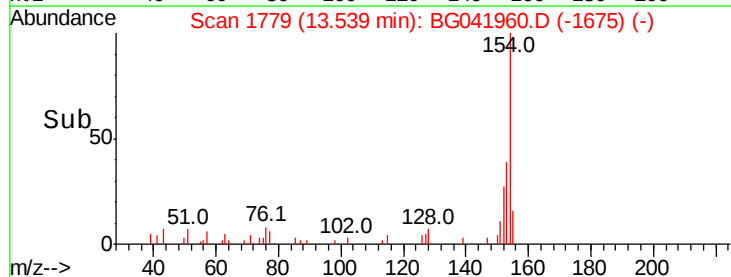
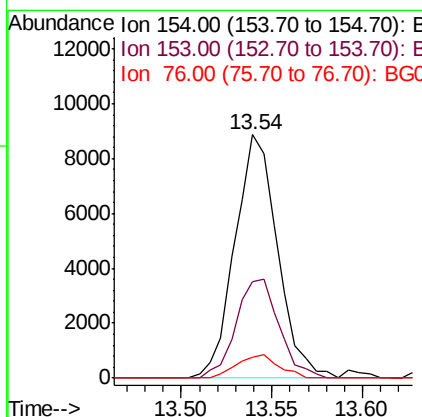
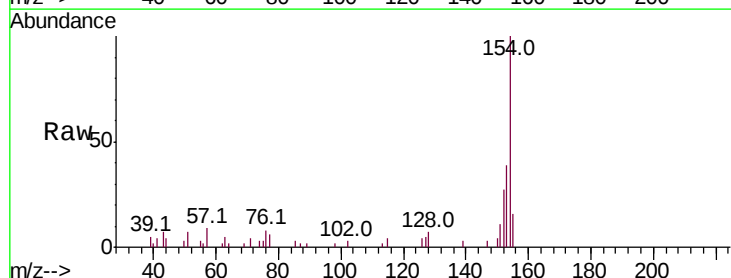
Instrument :
 BNA_G
 ClientSampleId :

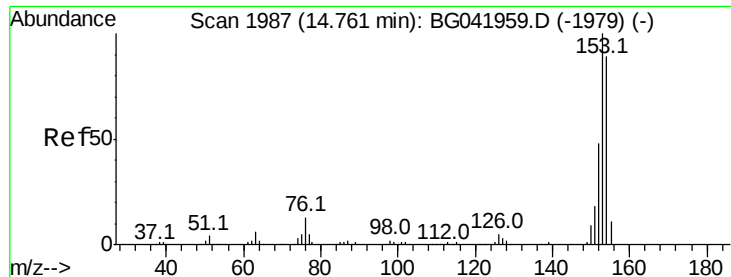
Tot Ion:142 Resp: 95246
 Ion Ratio Lower Upper
 142 100
 141 90.9 72.9 109.3



#40
 1,1'-Biphenyl
 Concen: 1.261 ng/ul
 RT: 13.54 min Scan# 1779
 Delta R.T. 0.01 min
 Lab File: BG041960.D
 Acq: 5 Aug 2019 9:37

Tgt Ion:154 Resp: 14564
 Ion Ratio Lower Upper
 154 100
 153 39.5 32.6 48.8
 76 8.5 8.6 13.0#





#49

Acenaphthene

Concen: 14.165 ng/ul

RT: 14.77 min Scan# 1988

Delta R.T. 0.01 min

Lab File: BG041960.D

Acq: 5 Aug 2019 9:37

Instrument :

BNA_G

ClientSampleId :

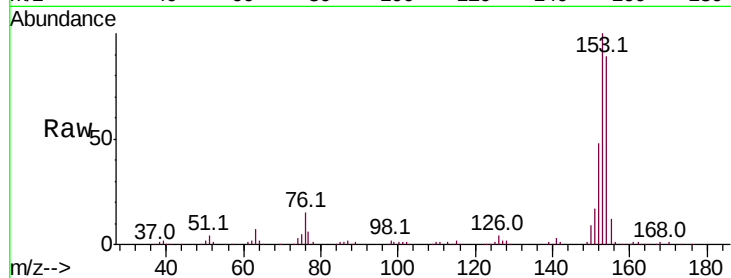
Tot Ion:153 Resp: 140708

Ion Ratio Lower Upper

153 100

152 47.7 37.8 56.8

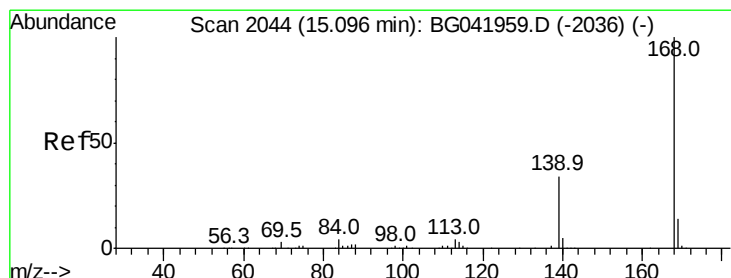
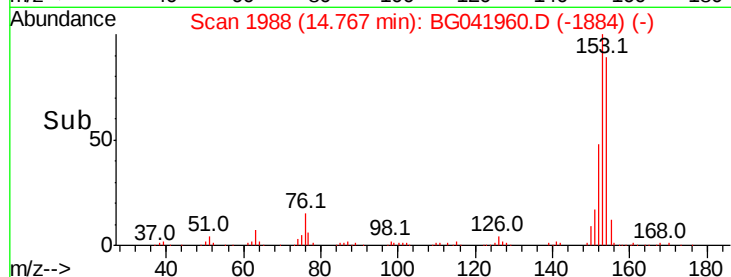
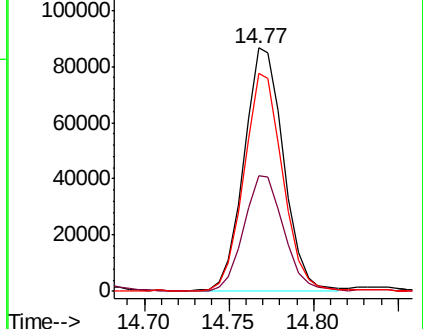
154 89.4 69.4 104.2



Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#53

Dibenzofuran

Concen: 1.571 ng/ul

RT: 15.10 min Scan# 2045

Delta R.T. 0.01 min

Lab File: BG041960.D

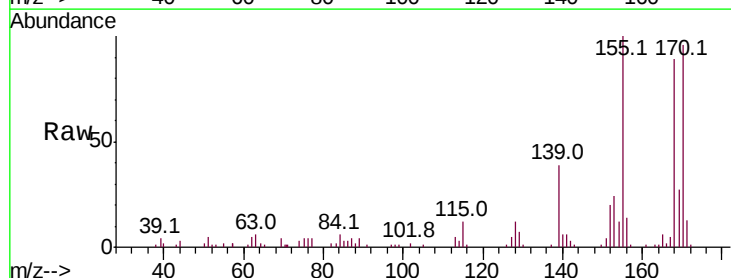
Acq: 5 Aug 2019 9:37

Tgt Ion:168 Resp: 23285

Ion Ratio Lower Upper

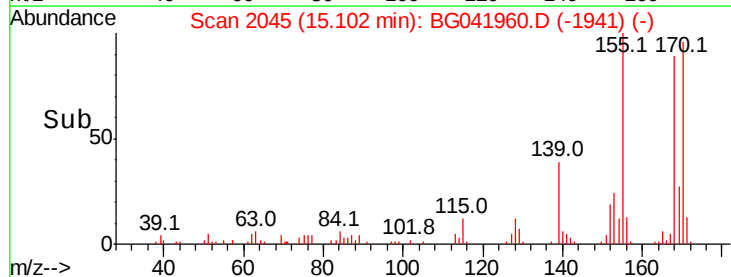
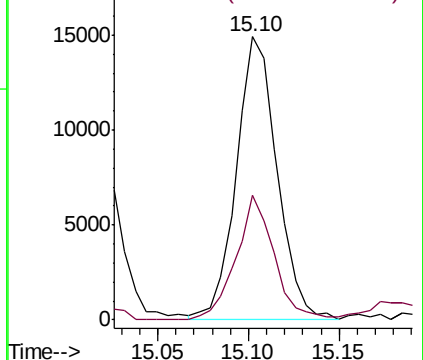
168 100

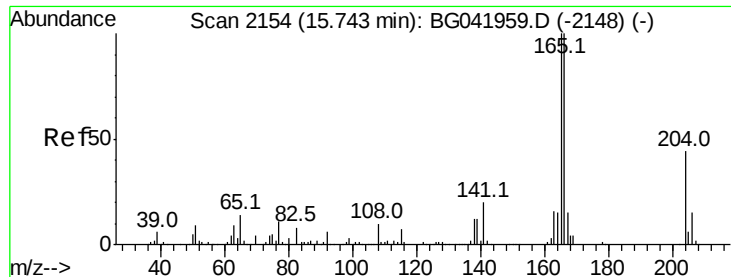
139 44.1 27.3 40.9#



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#58

Fluorene

Concen: 9.636 ng/ul

RT: 15.75 min Scan# 2156

Delta R.T. 0.01 min

Lab File: BG041960.D

Acq: 5 Aug 2019 9:37

Instrument :

BNA_G

ClientSampleId :

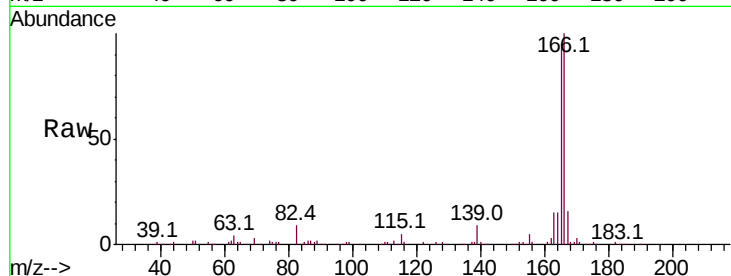
Tot Ion:166 Resp: 115066

Ion Ratio Lower Upper

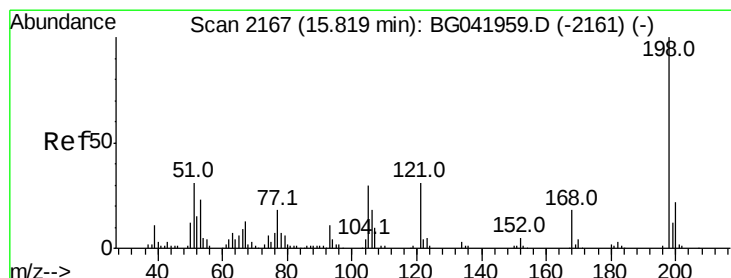
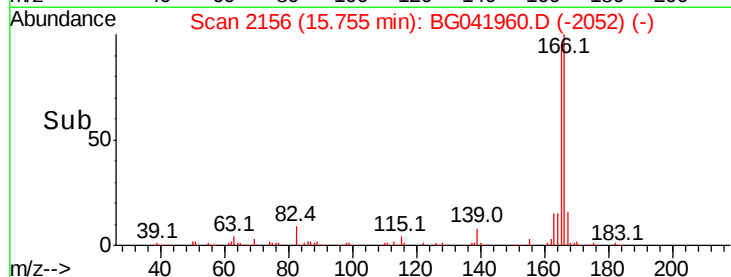
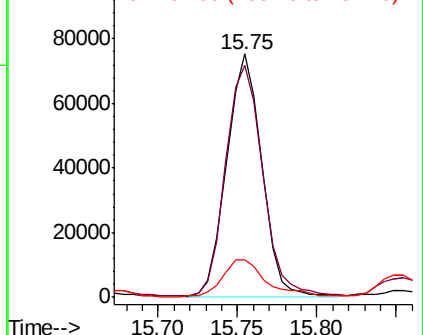
166 100

165 95.1 81.1 121.7

167 15.5 11.0 16.4



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

4,6-Dinitro-2-methylphenol

Concen: 1.467 ng/ul

RT: 16.25 min Scan# 2240

Delta R.T. 0.43 min

Lab File: BG041960.D

Acq: 5 Aug 2019 9:37

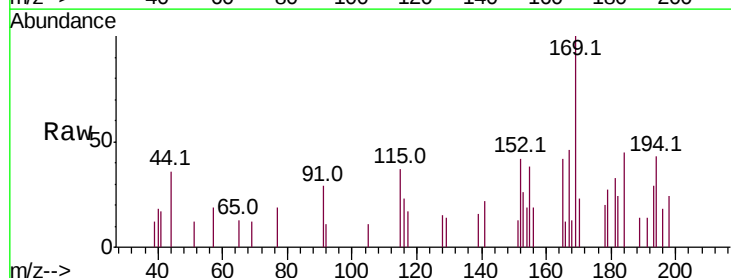
Tgt Ion:198 Resp: 210

Ion Ratio Lower Upper

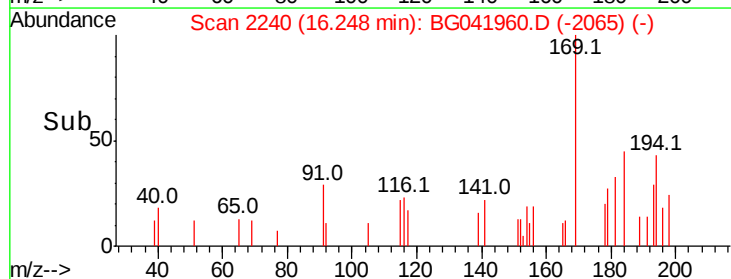
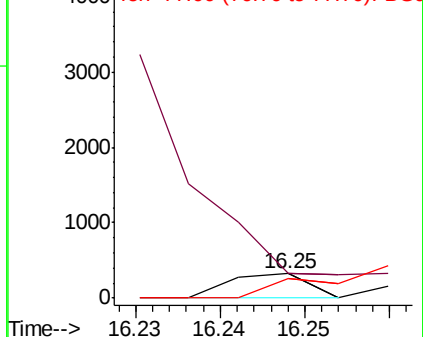
198 100

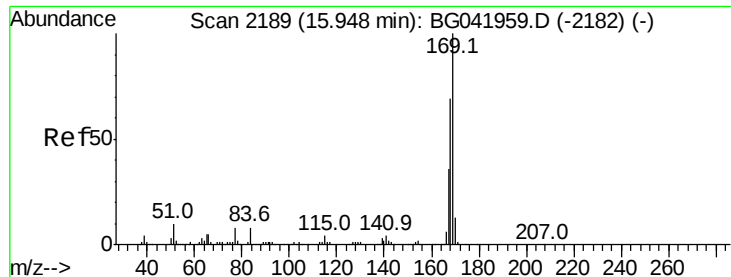
182 100.9 3.4 5.0#

77 78.8 13.2 19.8#



Abundance Ion 198.00 (197.70 to 198.70): E
Ion 182.00 (181.70 to 182.70): E
Ion 77.00 (76.70 to 77.70): BG





#64

N-Nitrosodiphenylamine

Concen: 10.932 ng/ul

RT: 16.03 min Scan# 2203

Delta R.T. 0.09 min

Lab File: BG041960.D

Acq: 5 Aug 2019 9:37

Instrument :

BNA_G

ClientSampleId :

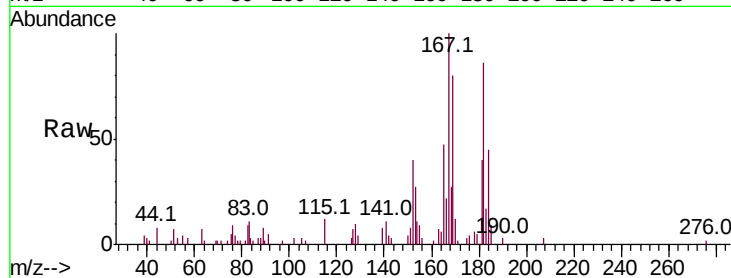
Tot Ion:169 Resp: 6717

Ion Ratio Lower Upper

169 100

168 33.4 55.0 82.4#

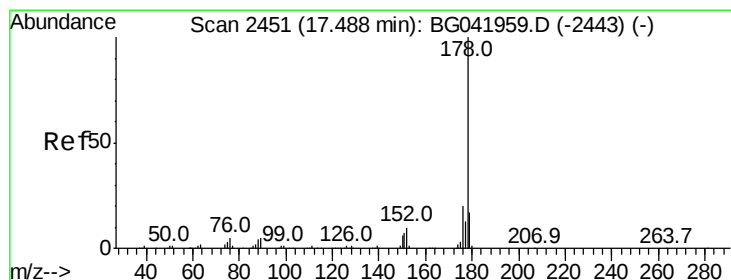
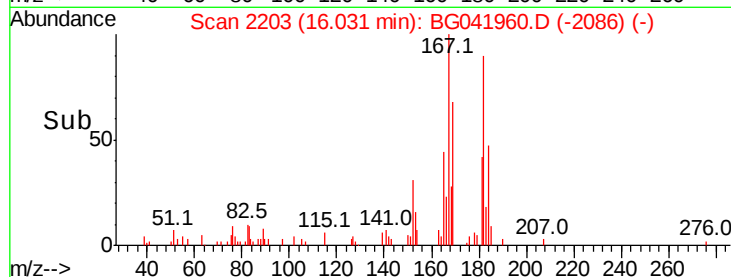
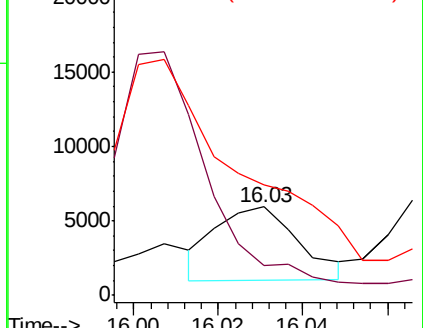
167 124.5 29.5 44.3#



Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E



#69

Phenanthrene

Concen: 324.282 ng/ul

RT: 17.59 min Scan# 2468

Delta R.T. 0.10 min

Lab File: BG041960.D

Acq: 5 Aug 2019 9:37

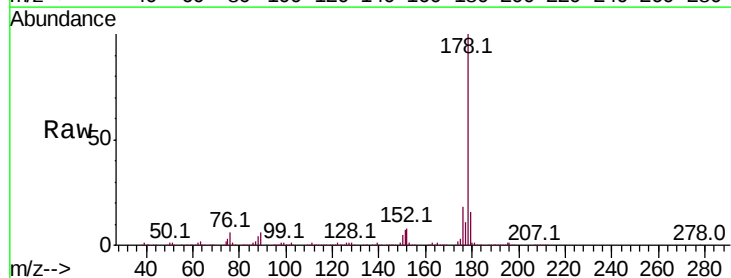
Tgt Ion:178 Resp: 367663

Ion Ratio Lower Upper

178 100

179 16.2 12.8 19.2

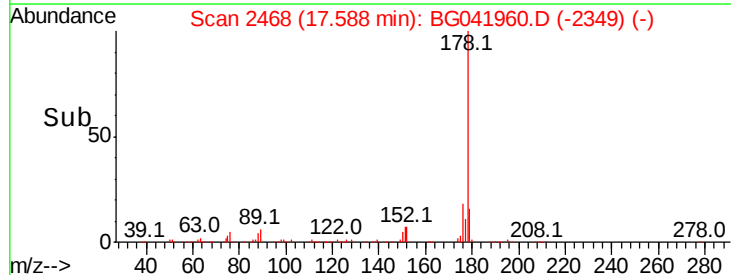
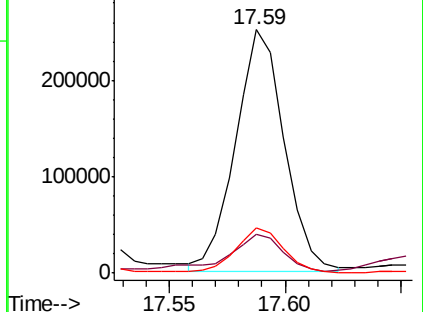
176 18.3 15.4 23.2

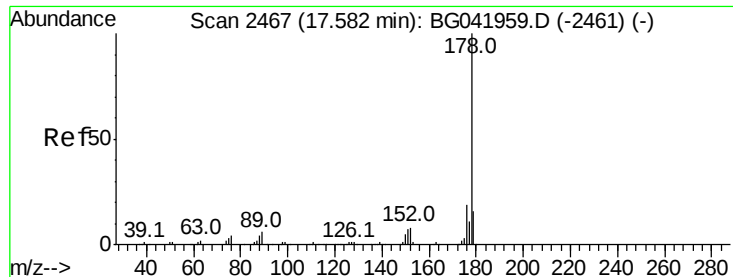


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

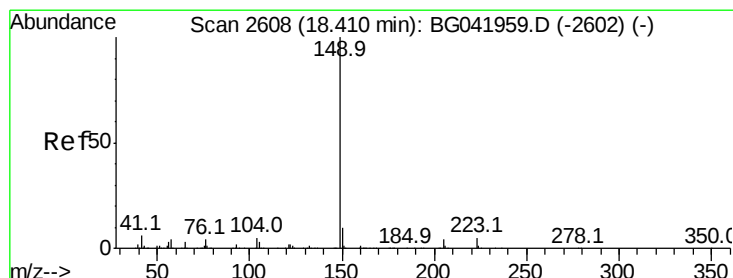
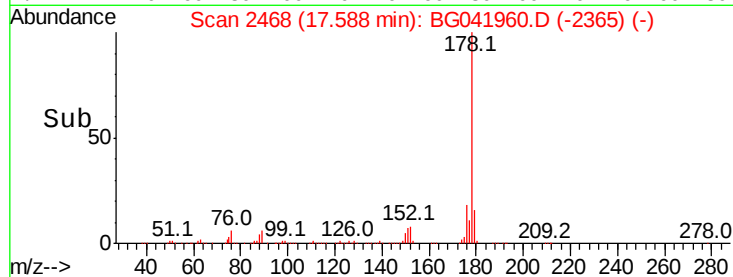
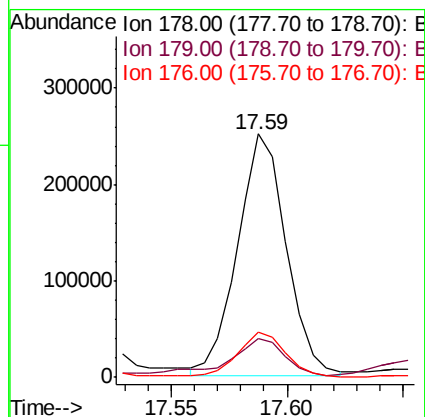
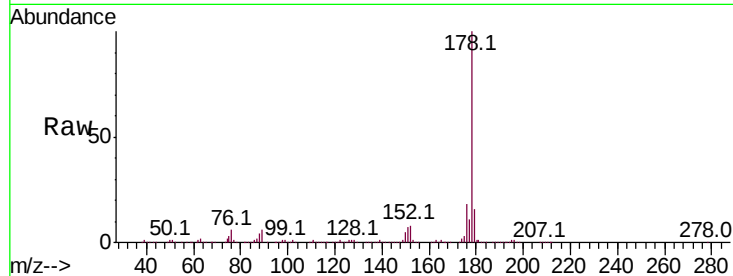




#71
 Anthracene
 Concen: 319.730 ng/ul
 RT: 17.59 min Scan# 2468
 Delta R.T. 0.00 min
 Lab File: BG041960.D
 Acq: 5 Aug 2019 9:37

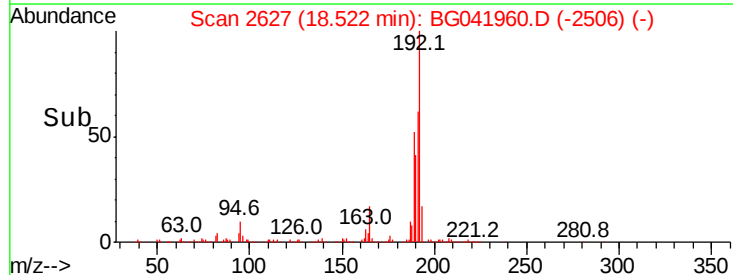
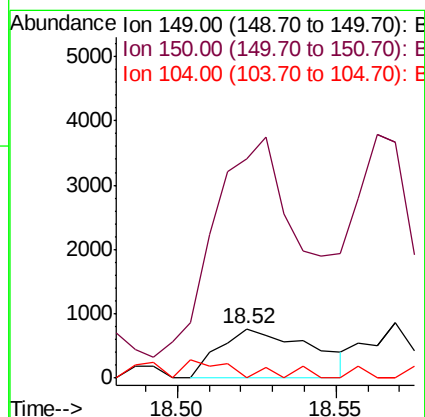
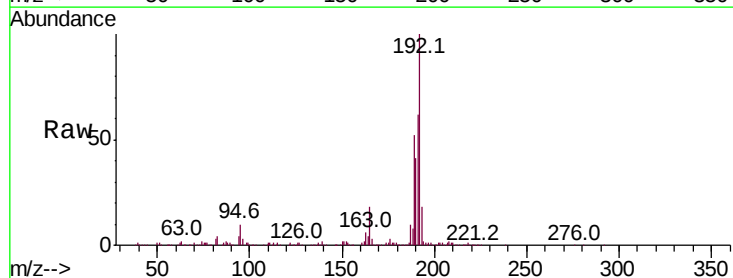
Instrument :
 BNA_G
 ClientSampleId :

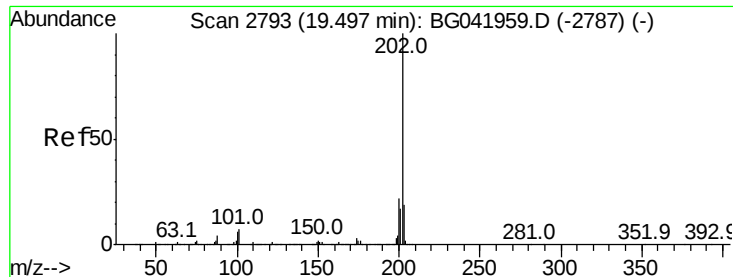
Tot Ion:178 Resp: 367663
 Ion Ratio Lower Upper
 178 100
 179 16.2 13.4 20.0
 176 18.3 15.4 23.2



#75
 Di-n-butylphthalate
 Concen: 1.310 ng/ul
 RT: 18.52 min Scan# 2627
 Delta R.T. 0.11 min
 Lab File: BG041960.D
 Acq: 5 Aug 2019 9:37

Tgt Ion:149 Resp: 1538
 Ion Ratio Lower Upper
 149 100
 150 445.7 8.3 12.5#
 104 0.0 3.9 5.9#

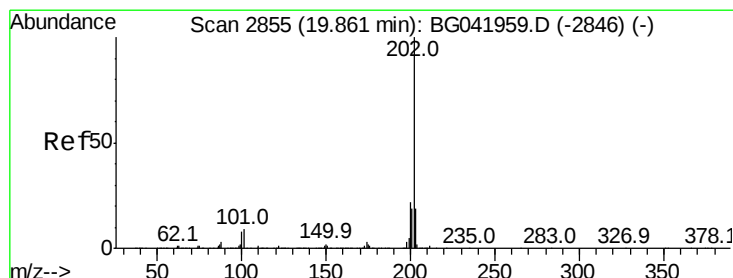
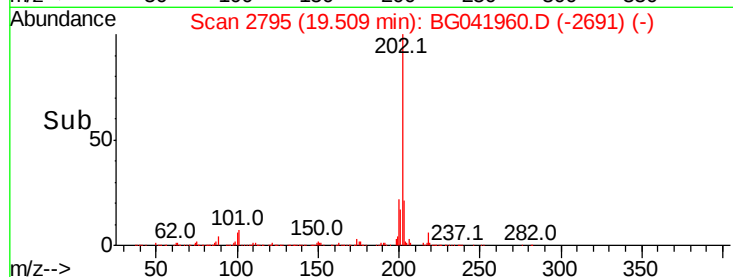
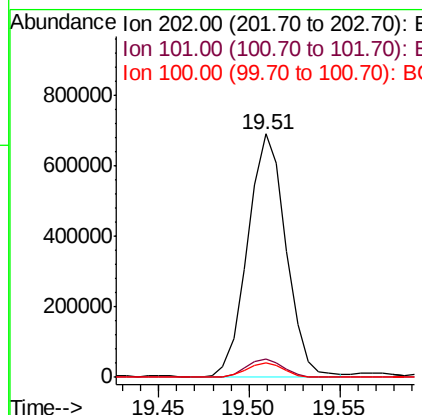
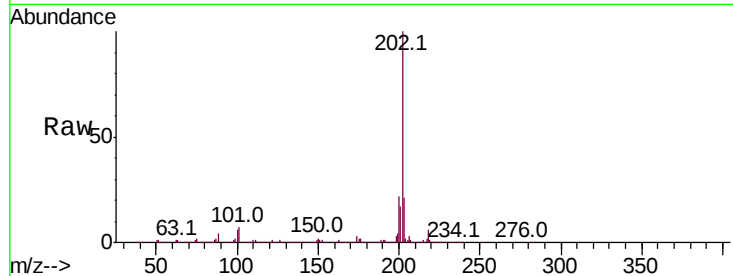




#76
 Fluoranthene
 Concen: 772.256 ng/ul
 RT: 19.51 min Scan# 2795
 Delta R.T. 0.01 min
 Lab File: BG041960.D
 Acq: 5 Aug 2019 9:37

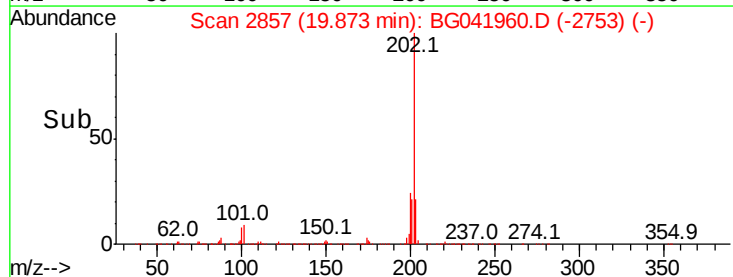
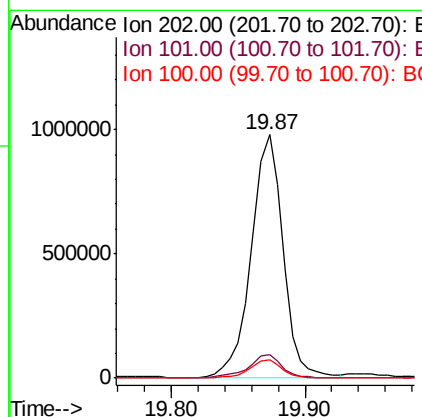
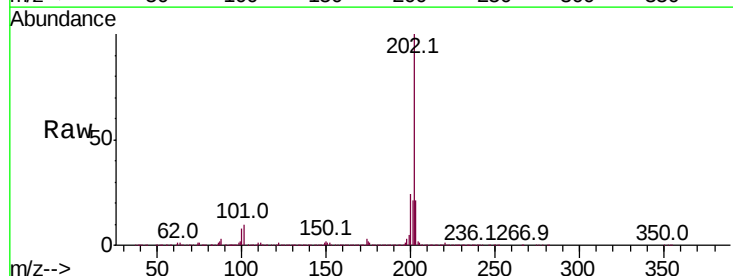
Instrument :
 BNA_G
 ClientSampleId :

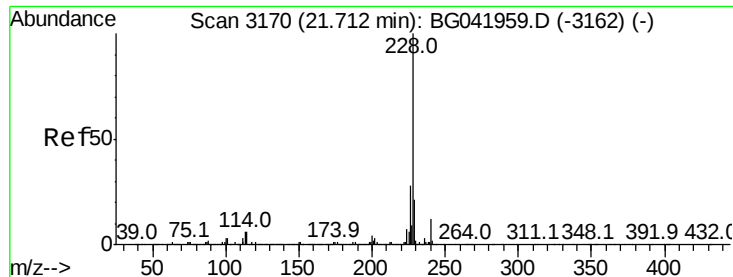
Tot Ion	Ratio	Lower	Upper
202	100		
101	7.4	6.7	10.1
100	5.9	5.3	7.9



#79
 Pyrene
 Concen: 71.172 ng/ul
 RT: 19.87 min Scan# 2857
 Delta R.T. 0.01 min
 Lab File: BG041960.D
 Acq: 5 Aug 2019 9:37

Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.8	7.6	11.4
100	7.6	6.5	9.7





#82

Benzo(a)anthracene

Concen: 38.310 ng/ul

RT: 21.72 min Scan# 3172

Delta R.T. 0.01 min

Lab File: BG041960.D

Acq: 5 Aug 2019 9:37

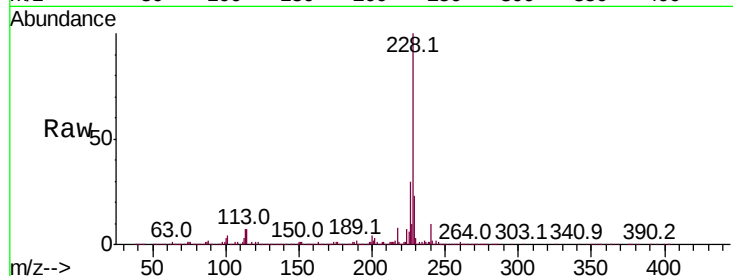
Instrument :

BNA_G

ClientSampleId :

Tot Ion:228 Resp: 886742

Ion	Ratio	Lower	Upper
228	100		
229	23.2	17.0	25.6
226	29.7	23.3	34.9

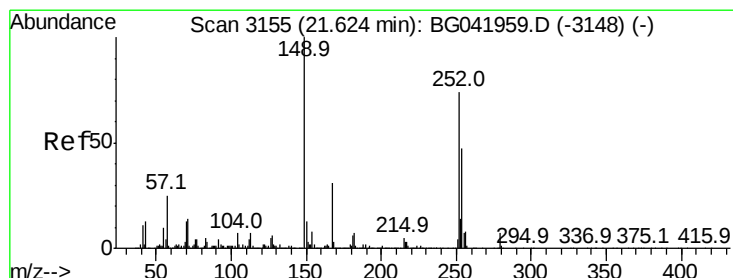
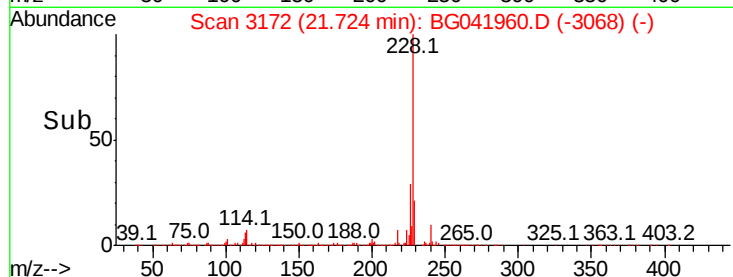
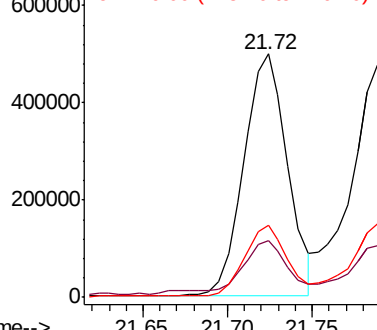


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E



#83

Bis(2-ethylhexyl)phthalate

Concen: 2.858 ng/ul

RT: 21.63 min Scan# 3156

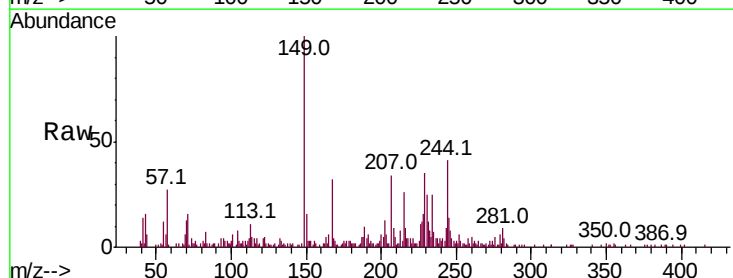
Delta R.T. 0.00 min

Lab File: BG041960.D

Acq: 5 Aug 2019 9:37

Tgt Ion:149 Resp: 34466

Ion	Ratio	Lower	Upper
149	100		
167	32.0	25.0	37.4
279	6.3	5.2	7.8

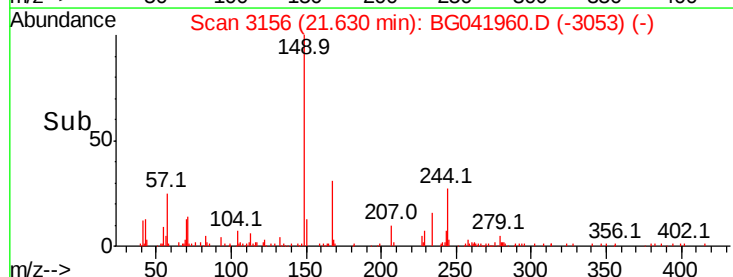
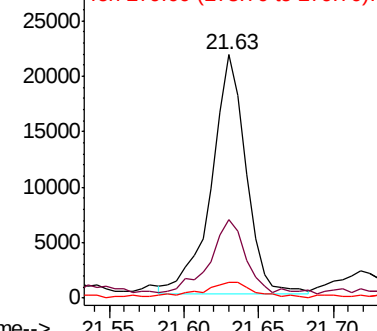


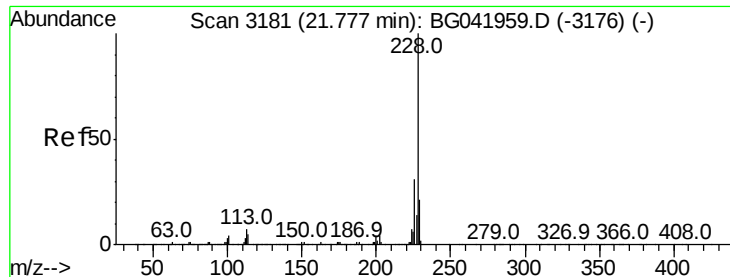
Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#84

Chrysene

Concen: 42.153 ng/ul

RT: 21.79 min Scan# 3183

Delta R.T. 0.01 min

Lab File: BG041960.D

Acq: 5 Aug 2019 9:37

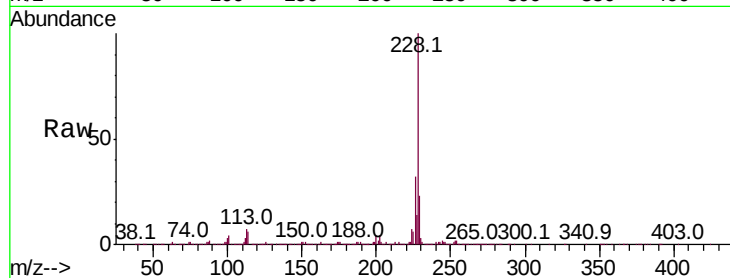
Instrument :

BNA_G

ClientSampleId :

Tot Ion:228 Resp: 910656

Ion	Ratio	Lower	Upper
228	100		
226	31.5	25.7	38.5
229	22.5	16.6	24.8

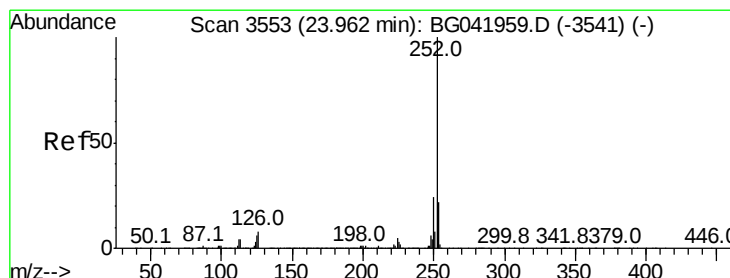
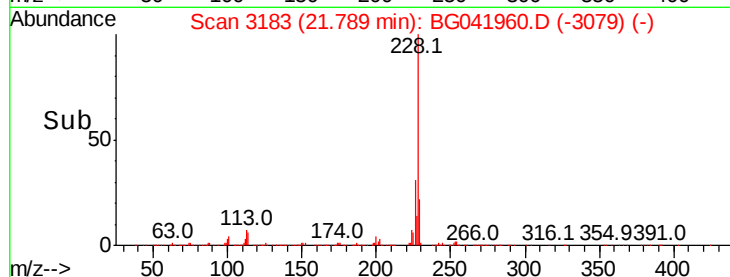
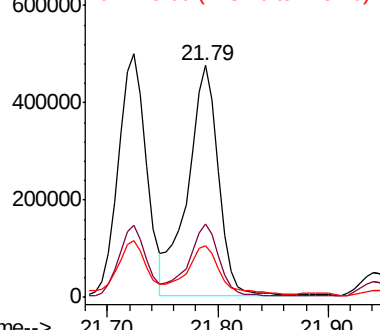


Abundance

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



#87

Benzo(b)fluoranthene

Concen: 26.199 ng/ul

RT: 23.99 min Scan# 3557

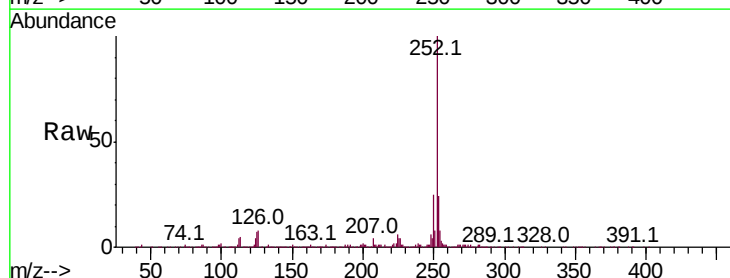
Delta R.T. 0.02 min

Lab File: BG041960.D

Acq: 5 Aug 2019 9:37

Tgt Ion:252 Resp: 623361

Ion	Ratio	Lower	Upper
252	100		
253	23.7	18.4	27.6
125	6.7	5.8	8.8

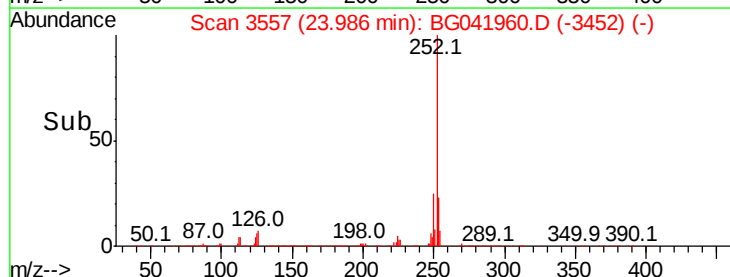
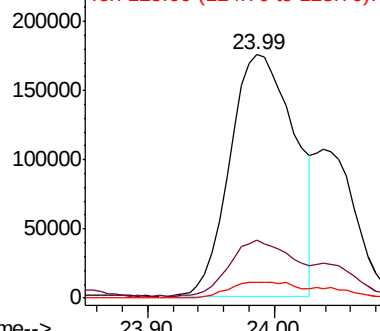


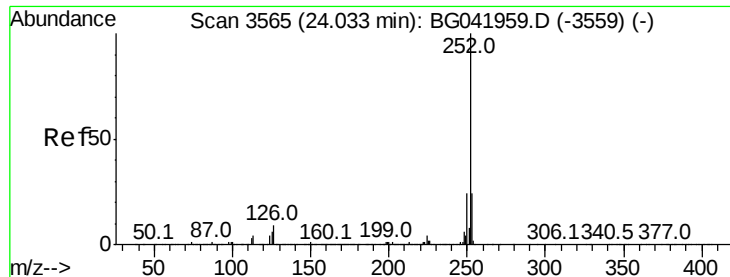
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 27.249 ng/ul

RT: 23.99 min Scan# 3557

Delta R.T. -0.06 min

Lab File: BG041960.D

Acq: 5 Aug 2019 9:37

Instrument :

BNA_G

ClientSampled :

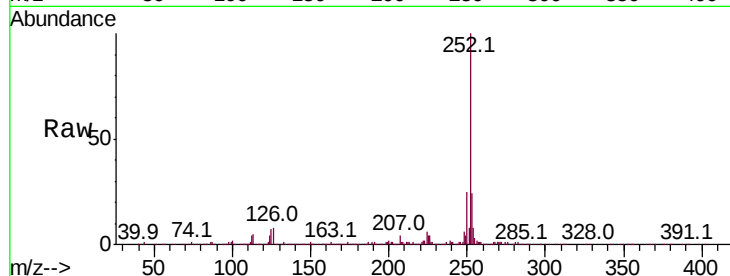
Tot Ion:252 Resp: 623361

Ion Ratio Lower Upper

252 100

253 23.7 18.3 27.5

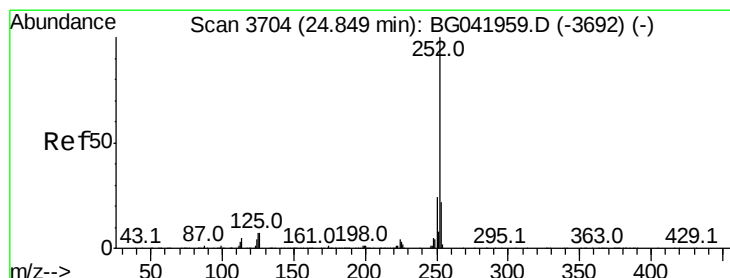
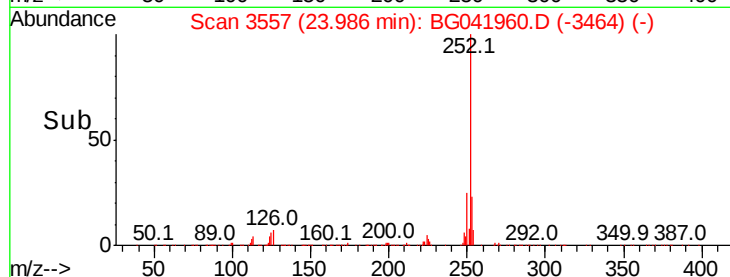
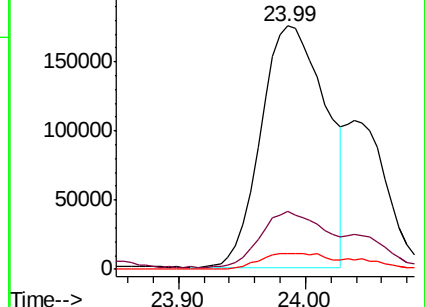
125 6.7 5.5 8.3



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Benzo(a)pyrene

Concen: 28.110 ng/ul

RT: 24.87 min Scan# 3707

Delta R.T. 0.01 min

Lab File: BG041960.D

Acq: 5 Aug 2019 9:37

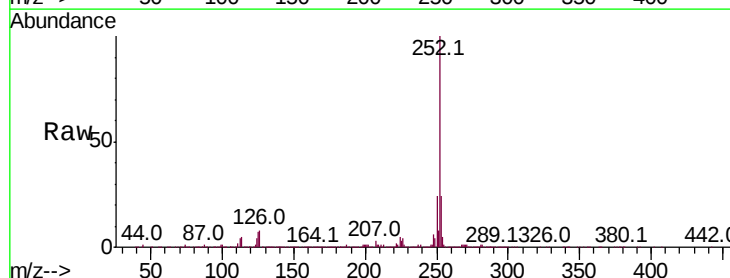
Tgt Ion:252 Resp: 637327

Ion Ratio Lower Upper

252 100

253 23.6 18.3 27.5

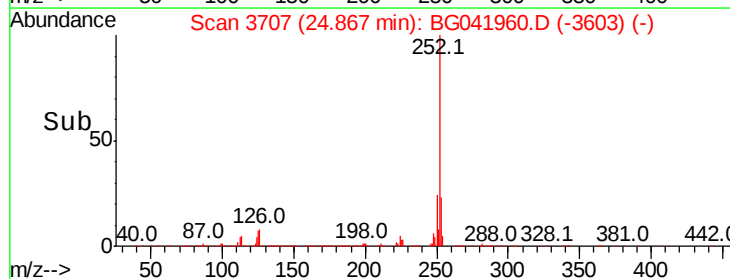
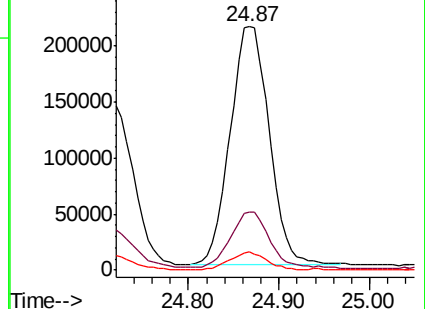
125 7.3 6.5 9.7

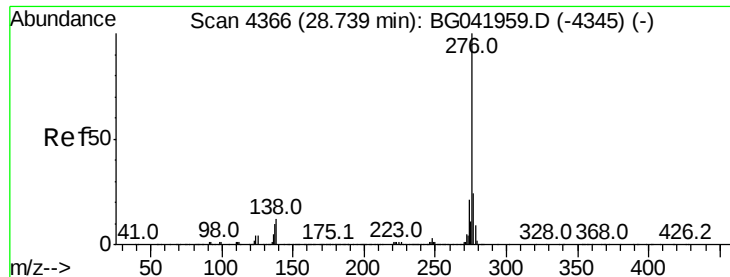


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



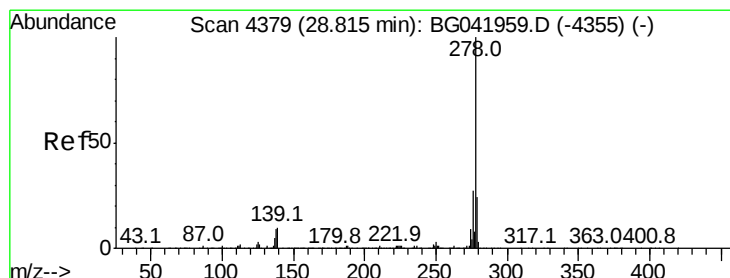
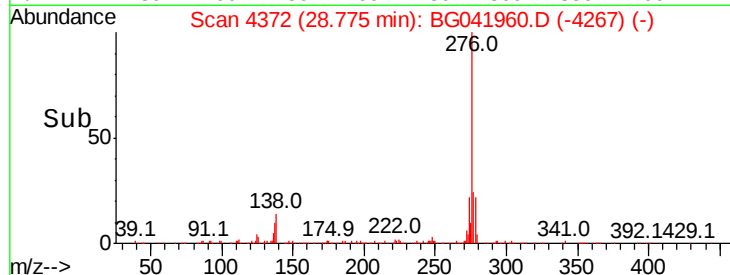
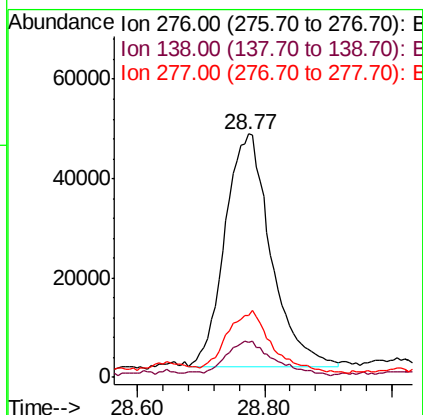
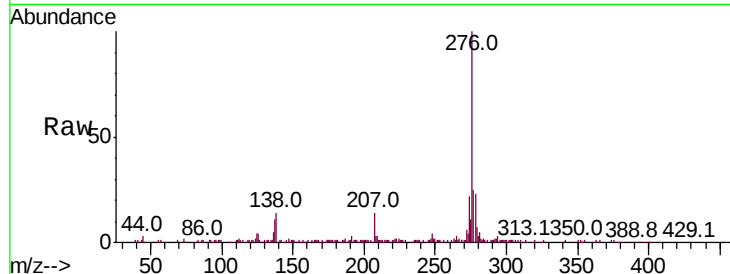


#91

Indeno(1,2,3-cd)pyrene
Concen: 8.925 ng/ul
RT: 28.77 min Scan# 4372
Delta R.T. 0.02 min
Lab File: BG041960.D
Acq: 5 Aug 2019 9:37

Instrument :
BNA_G
ClientSampleId :

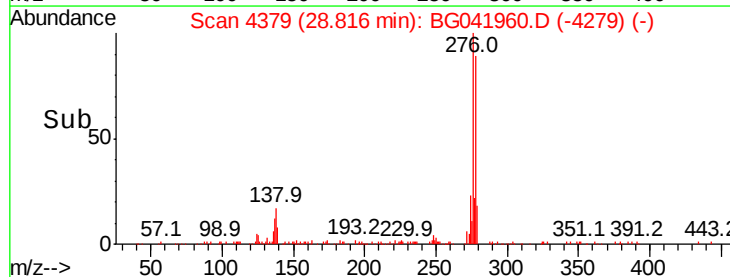
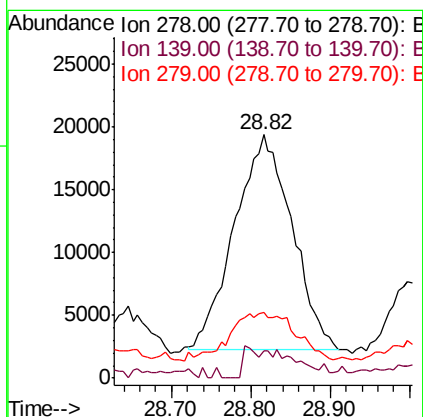
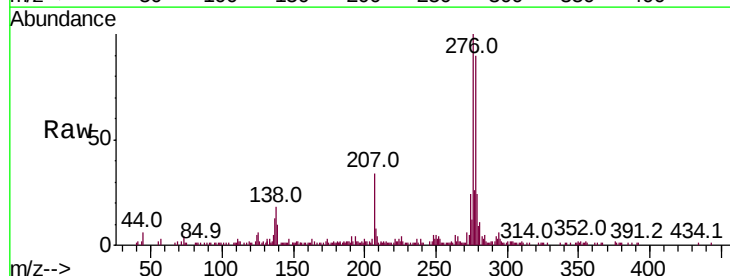
Tot Ion	Ratio	Lower	Upper
276	100		
138	14.4	12.0	18.0
277	25.3	19.2	28.8

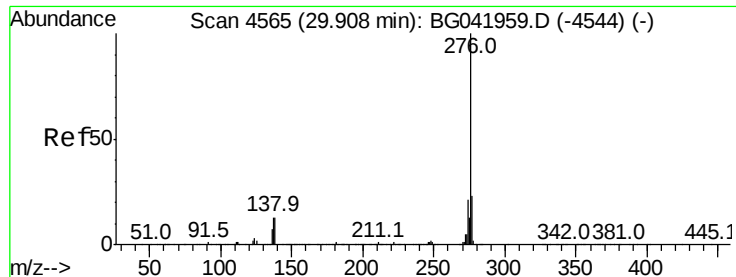


#92

Dibenzo(a,h)anthracene
Concen: 3.999 ng/ul
RT: 28.82 min Scan# 4379
Delta R.T. -0.01 min
Lab File: BG041960.D
Acq: 5 Aug 2019 9:37

Tgt Ion	Ratio	Lower	Upper
278	100		
139	11.3	9.4	14.0
279	27.0	19.2	28.8





#93

Benzo(a,h,i)perylene

Concen: 10.894 ng/ul

RT: 29.93 min Scan# 4568

Delta R.T. -0.00 min

Lab File: BG041960.D

Acq: 5 Aug 2019 9:37

Instrument :

BNA_G

ClientSampleId :

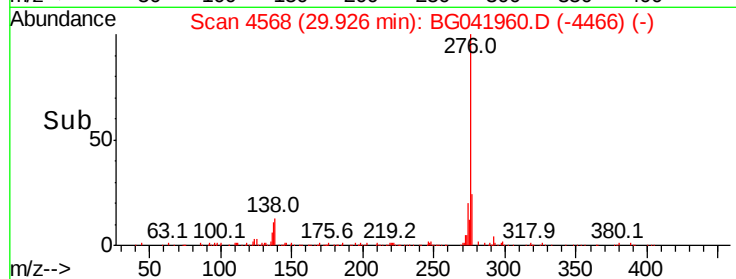
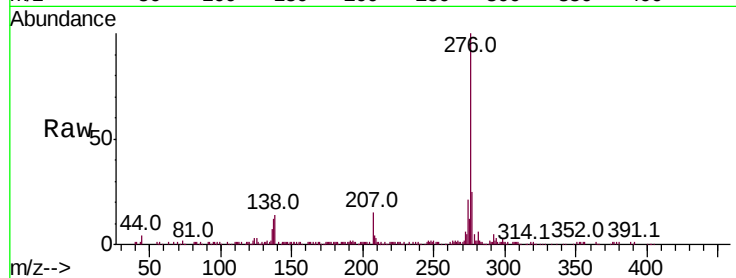
Tot Ion:276 Resp: 240525

Ion Ratio Lower Upper

276 100

138 14.5 12.6 18.8

277 24.7 19.2 28.8



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

