

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG030220\
 Data File : BG044658.D
 Acq On : 3 Mar 2020 9:23
 Operator : CG/JU
 Sample : L1369-01DL 10X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Mar 03 18:25:09 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG022420.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 24 16:11:23 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.81	152	87665	20.00	ng	-0.07
21) Naphthalene-d8	10.61	136	393163	20.00	ng	-0.07
39) Acenaphthene-d10	14.46	164	245242	20.00	ng	-0.06
64) Phenanthrene-d10	17.21	188	488282	20.00	ng	-0.06
76) Chrysene-d12	21.44	240	421086	20.00	ng	-0.06
87) Perylene-d12	24.46	264	482763	20.00	ng	-0.11

System Monitoring Compounds

5) 2-Fluorophenol	5.38	112	39407	7.21	ng	-0.07
7) Phenol-d6	6.99	99	52688	7.04	ng	-0.06
23) Nitrobenzene-d5	8.97	82	32029	4.20	ng	-0.06
42) 2,4,6-Tribromophenol	15.95	330	18541	5.33	ng	-0.06
45) 2-Fluorobiphenyl	13.08	172	82855	4.84	ng	-0.06
79) Terphenyl-d14	19.83	244	117932	5.30	ng	-0.06

Target Compounds

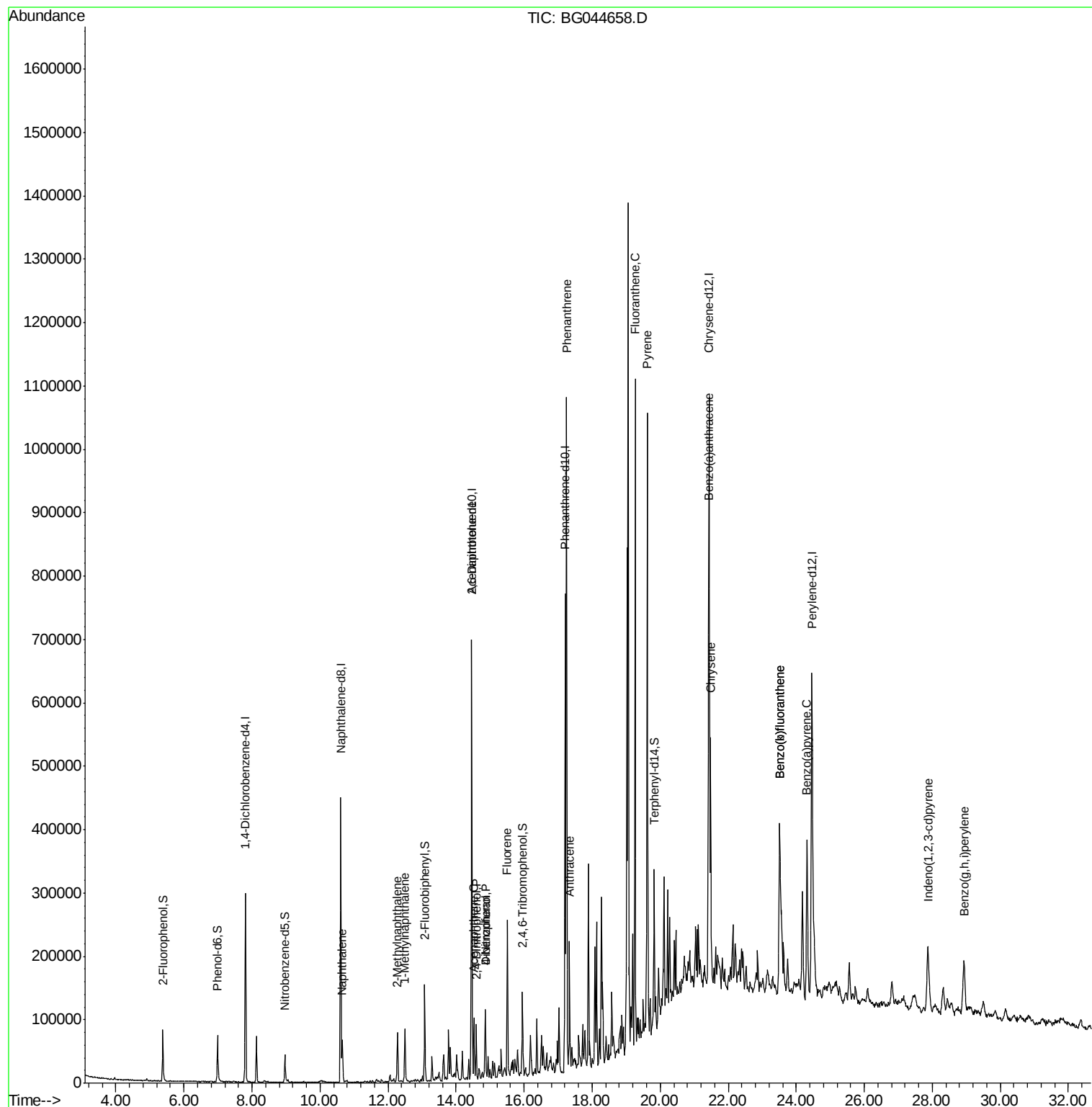
						Qvalue
31) Naphthalene	10.66	128	56543	2.636	ng	100
37) 2-Methylnaphthalene	12.28	142	42416	2.675	ng	95
38) 1-Methylnaphthalene	12.49	142	41836	2.777	ng	96
51) 2,6-Dinitrotoluene	14.46	165	34885	7.991	ng	# 32
52) Acenaphthene	14.52	154	35084	2.343	ng	98
54) 2,4-Dinitrophenol	14.59	184	57	9.388	ng	# 1
55) Dibenzofuran	14.86	168	63139	2.750	ng	98
56) 4-Nitrophenol	14.86	139	22457	6.934	ng	# 15
58) Fluorene	15.51	166	108560	5.964	ng	97
71) Phenanthrene	17.25	178	649354	24.021	ng	100
72) Anthracene	17.34	178	127816	4.798	ng	98
75) Fluoranthene	19.26	202	625366	19.542	ng	99
78) Pvrene	19.62	202	598624	19.584	ng	99
81) Benzo(a)anthracene	21.42	228	286750	9.689	ng	99
83) Chrysene	21.48	228	256818	8.975	ng	97
86) Indeno(1,2,3-cd)pyrene	27.86	276	157929	4.301	ng	96
88) Benzo(b)fluoranthene	23.51	252	324643	10.228	ng	99
89) Benzo(k)fluoranthene	23.51	252	324643	10.541	ng	98
90) Benzo(a)pvrene	24.32	252	252386	8.463	ng	98
92) Benzo(a,h,i)perylene	28.93	276	154007	5.212	ng	97

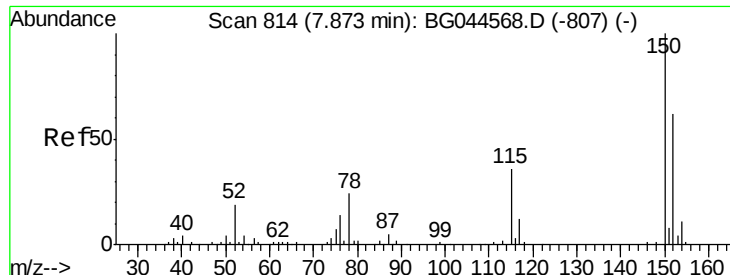
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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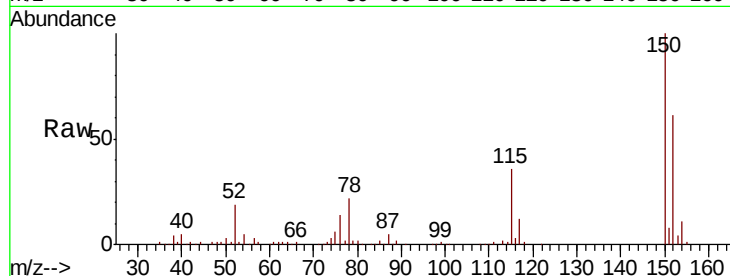


#1

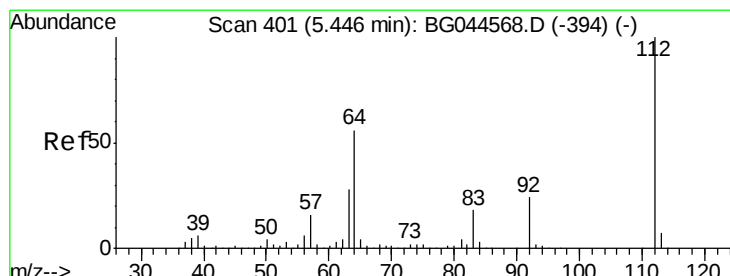
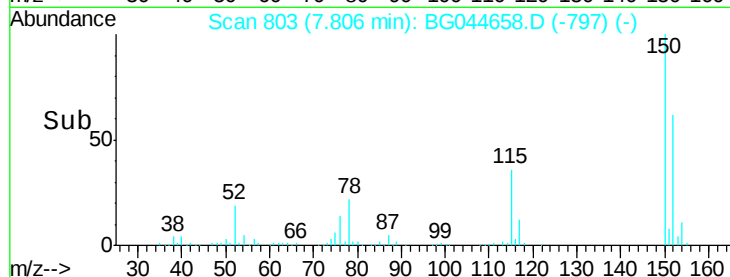
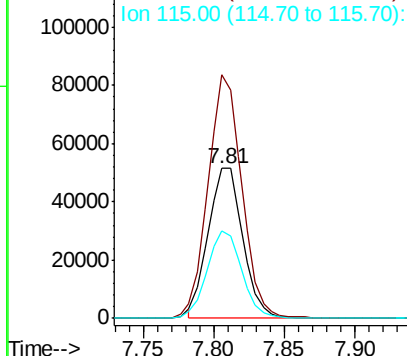
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.81 min Scan# 803
Delta R.T. -0.07 min
Lab File: BG044658.D
Acq: 3 Mar 2020 9:23

Instrument :
BNA_G
ClientSampled :

Tot Ion:152 Resp: 87665
Ion Ratio Lower Upper
152 100
150 162.6 128.9 193.3
115 58.2 47.0 70.4



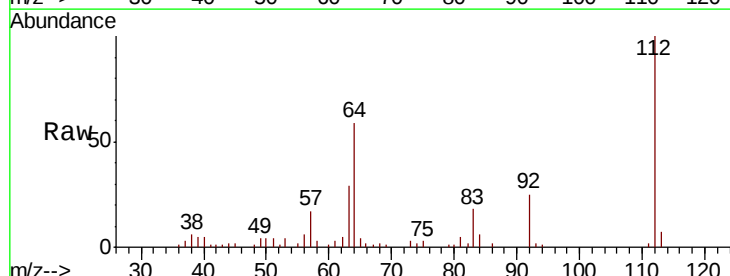
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



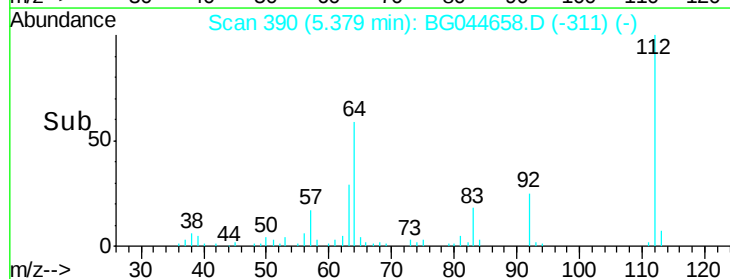
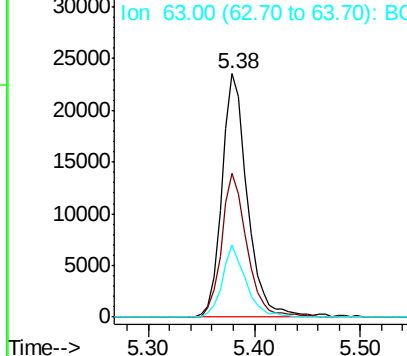
#5

2-Fluorophenol
Concen: 7.212 ng
RT: 5.38 min Scan# 390
Delta R.T. -0.07 min
Lab File: BG044658.D
Acq: 3 Mar 2020 9:23

Tgt Ion:112 Resp: 39407
Ion Ratio Lower Upper
112 100
64 59.3 44.8 67.2
63 29.4 22.3 33.5



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BG
Ion 63.00 (62.70 to 63.70): BG





#7

Phenol-d6

Concen: 7.045 ng

RT: 6.99 min Scan# 664

Delta R.T. -0.06 min

Lab File: BG044658.D

Acq: 3 Mar 2020 9:23

Instrument :

BNA_G

ClientSampleId :

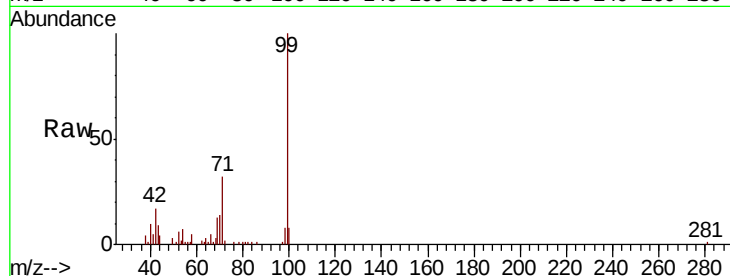
Tot Ion: 99 Resp: 52688

Ion Ratio Lower Upper

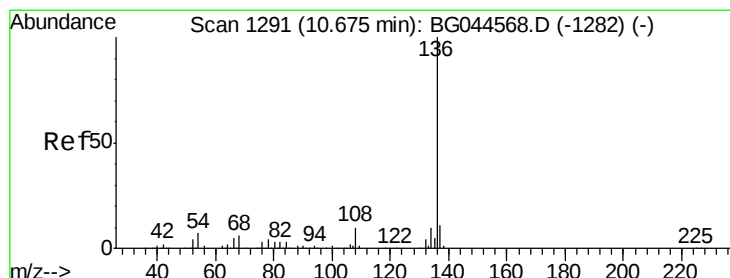
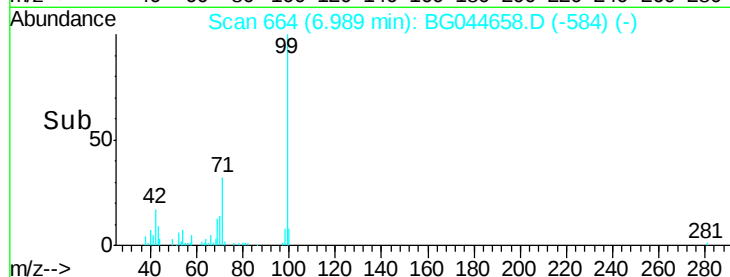
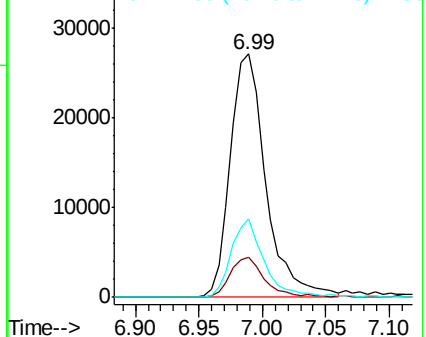
99 100

42 16.6 12.8 19.2

71 32.2 24.4 36.6



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: 20.000 ng

RT: 10.61 min Scan# 1280

Delta R.T. -0.07 min

Lab File: BG044658.D

Acq: 3 Mar 2020 9:23

Tgt Ion: 136 Resp: 393163

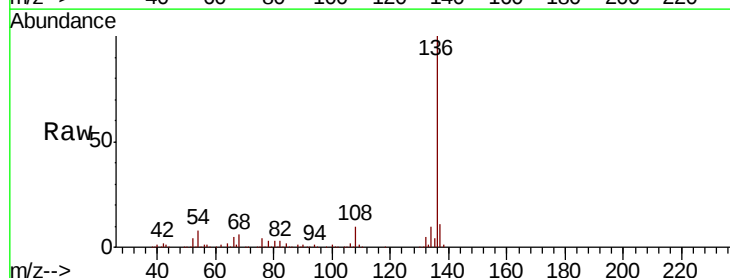
Ion Ratio Lower Upper

136 100

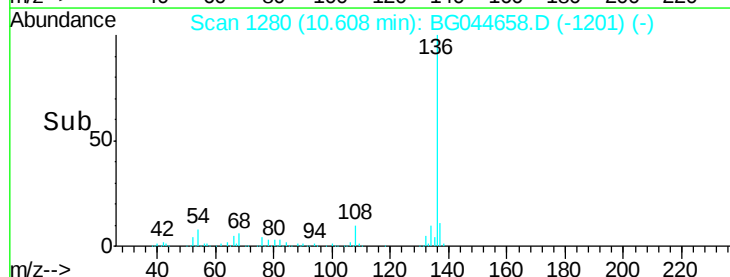
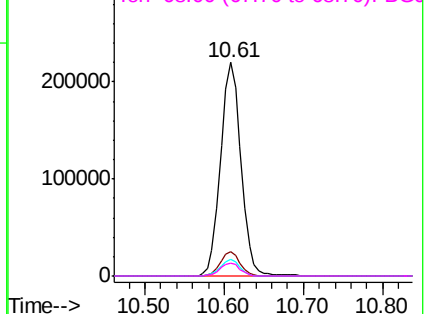
137 11.4 8.8 13.2

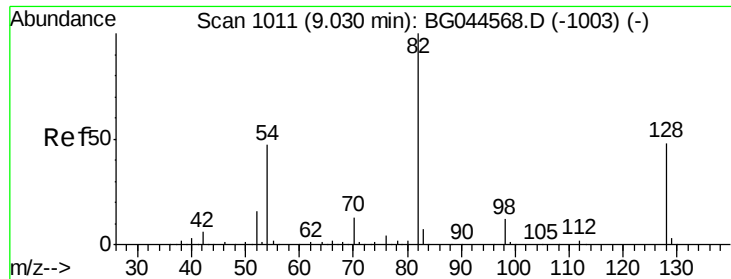
54 8.0 5.7 8.5

68 6.0 4.5 6.7



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

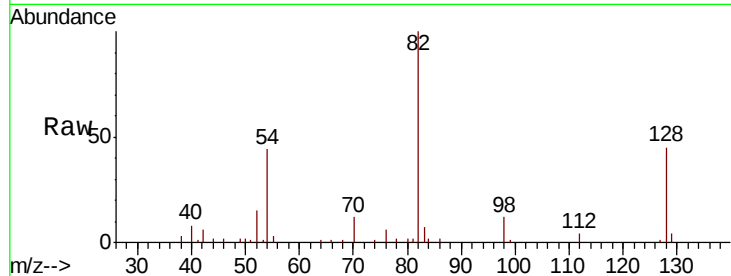




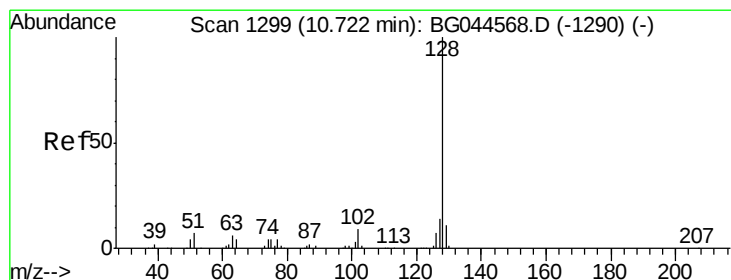
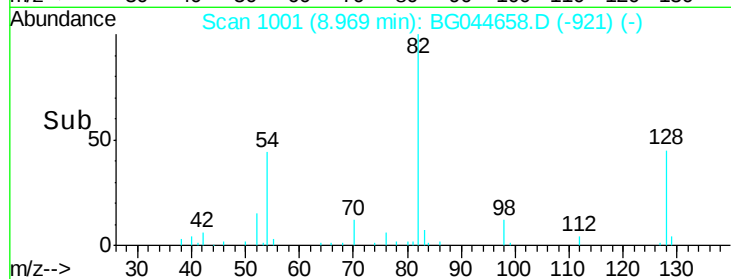
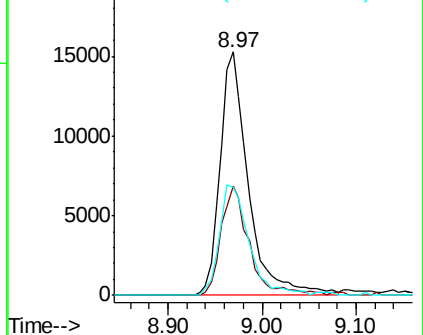
#23
 Nitrobenzene-d5
 Concen: 4.197 ng
 RT: 8.97 min Scan# 1001
 Delta R.T. -0.06 min
 Lab File: BG044658.D
 Acq: 3 Mar 2020 9:23

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion	82	Resp	32029
Ion Ratio	100	Lower	Upper
128	44.6	38.1	57.1
54	44.2	37.5	56.3

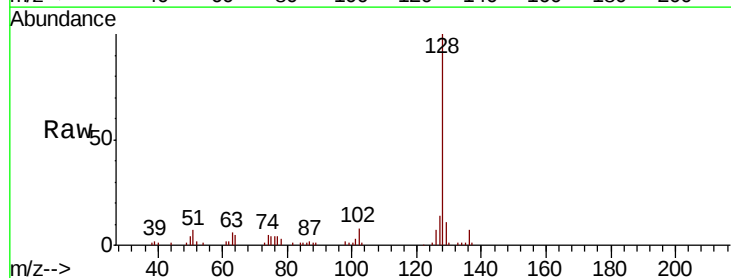


Abundance Ion 82.00 (81.70 to 82.70): BGC
 Ion 128.00 (127.70 to 128.70): BGC
 Ion 54.00 (53.70 to 54.70): BGC

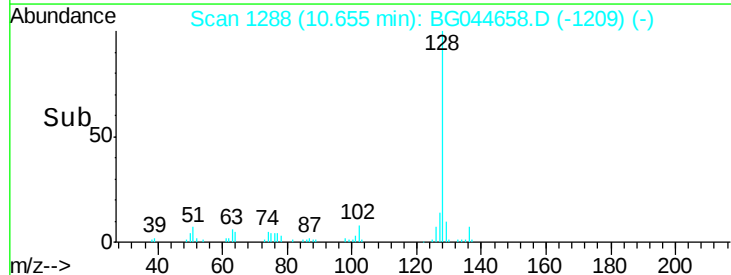
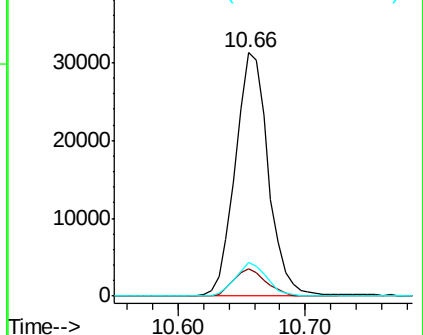


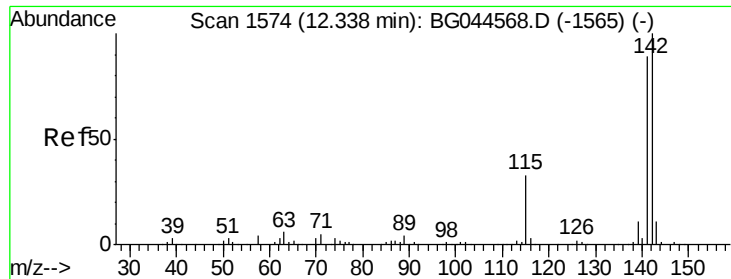
#31
 Naphthalene
 Concen: 2.636 ng
 RT: 10.66 min Scan# 1288
 Delta R.T. -0.07 min
 Lab File: BG044658.D
 Acq: 3 Mar 2020 9:23

Tgt Ion	128	Resp	56543
Ion Ratio	100	Lower	Upper
129	11.0	9.0	13.6
127	13.7	11.0	16.4



Abundance Ion 128.00 (127.70 to 128.70): BGC
 Ion 129.00 (128.70 to 129.70): BGC
 Ion 127.00 (126.70 to 127.70): BGC

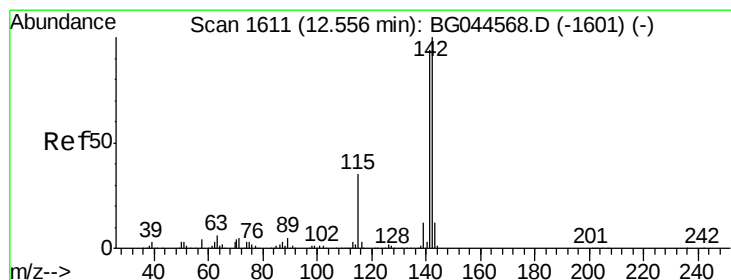
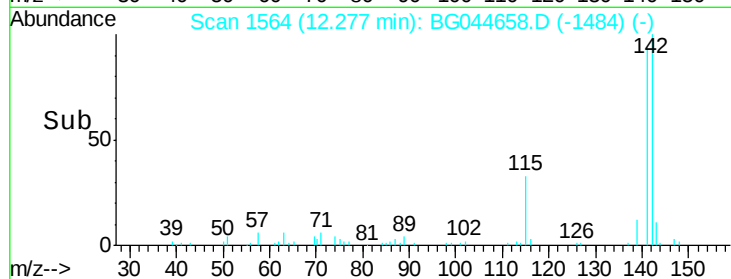
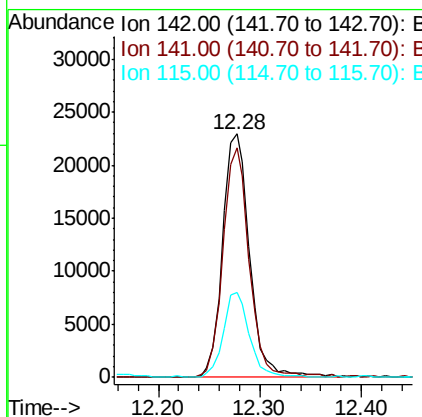
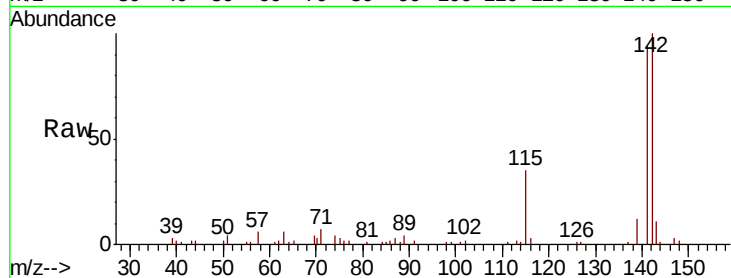




#37
 2-Methylnaphthalene
 Concen: 2.675 ng
 RT: 12.28 min Scan# 1564
 Delta R.T. -0.06 min
 Lab File: BG044658.D
 Acq: 3 Mar 2020 9:23

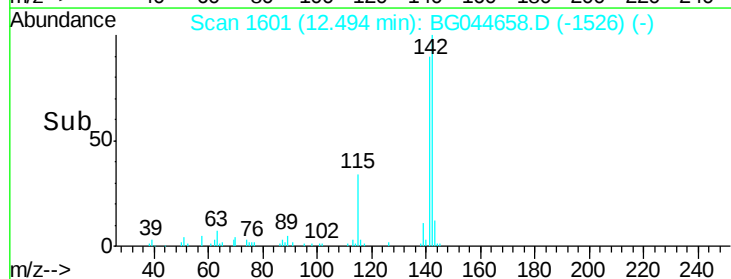
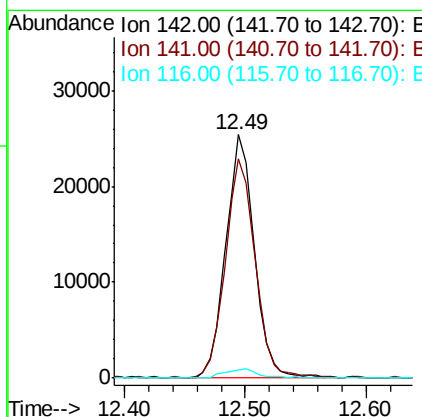
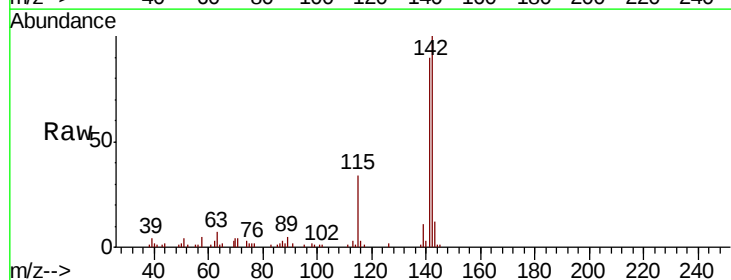
Instrument :
 BNA_G
 ClientSampleId :

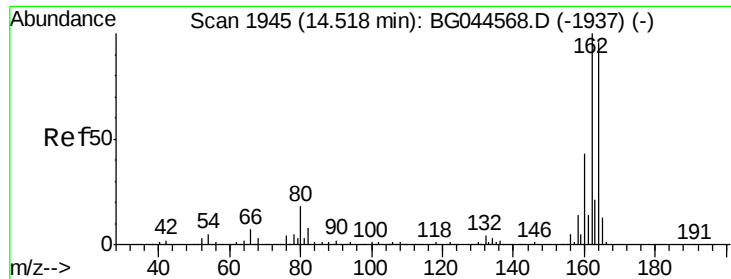
Tot Ion:142 Resp: 42416
 Ion Ratio Lower Upper
 142 100
 141 94.4 71.3 106.9
 115 34.7 26.2 39.2



#38
 1-Methylnaphthalene
 Concen: 2.777 ng
 RT: 12.49 min Scan# 1601
 Delta R.T. -0.06 min
 Lab File: BG044658.D
 Acq: 3 Mar 2020 9:23

Tgt Ion:142 Resp: 41836
 Ion Ratio Lower Upper
 142 100
 141 90.1 75.1 112.7
 116 3.4 2.6 4.0





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.46 min Scan# 1935

Delta R.T. -0.06 min

Lab File: BG044658.D

Acq: 3 Mar 2020 9:23

Instrument :

BNA_G

ClientSampleId :

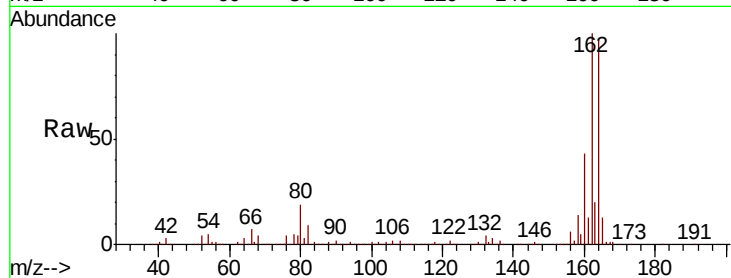
Tot Ion:164 Resp: 245242

Ion Ratio Lower Upper

164 100

162 102.7 83.6 125.4

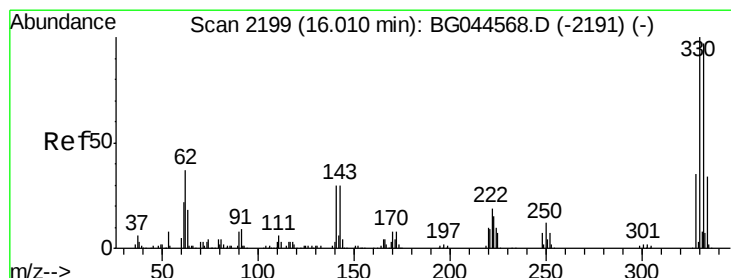
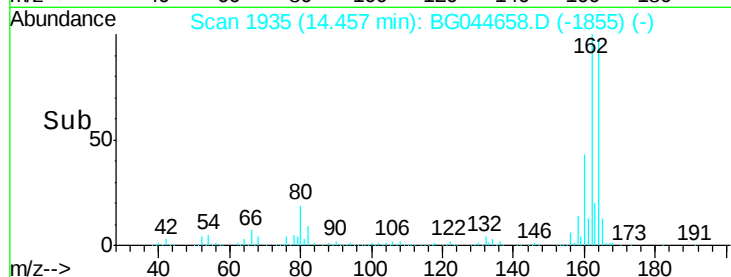
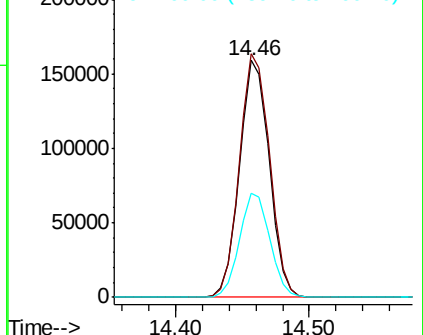
160 43.8 36.2 54.4



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



#42

2,4,6-Tribromophenol

Concen: 5.332 ng

RT: 15.95 min Scan# 2190

Delta R.T. -0.06 min

Lab File: BG044658.D

Acq: 3 Mar 2020 9:23

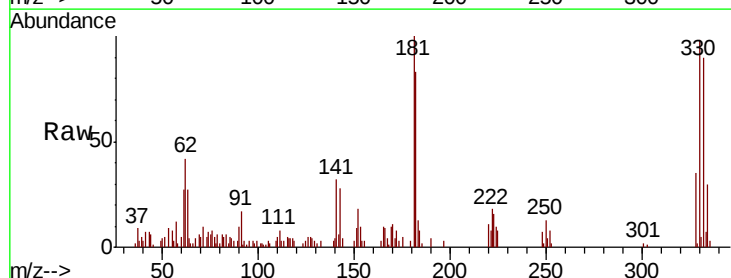
Tgt Ion:330 Resp: 18541

Ion Ratio Lower Upper

330 100

332 96.0 77.4 116.0

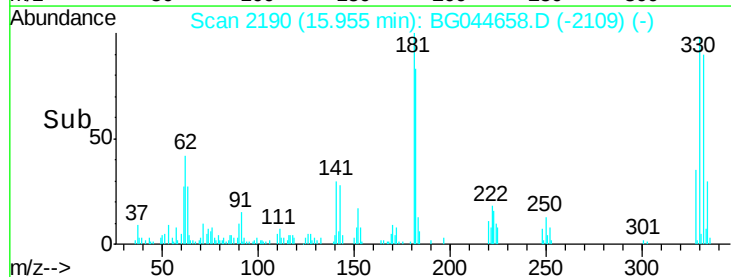
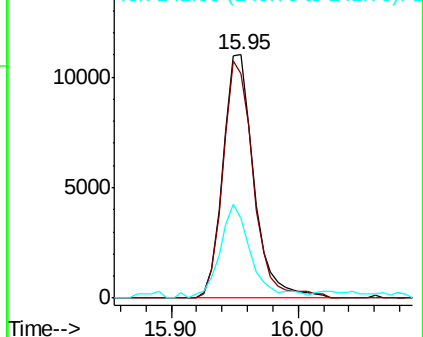
141 39.7 26.1 39.1#

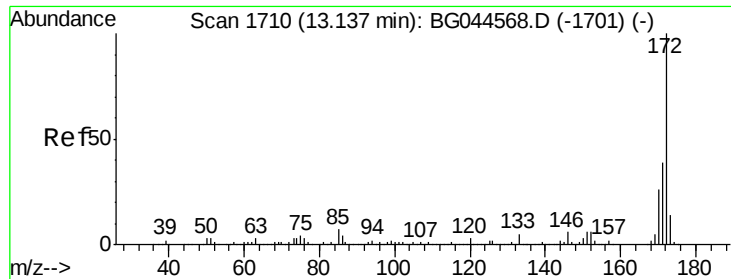


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

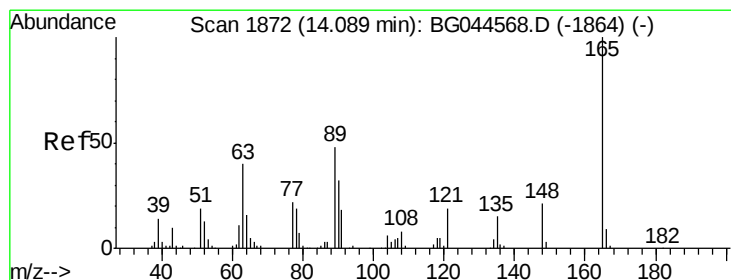
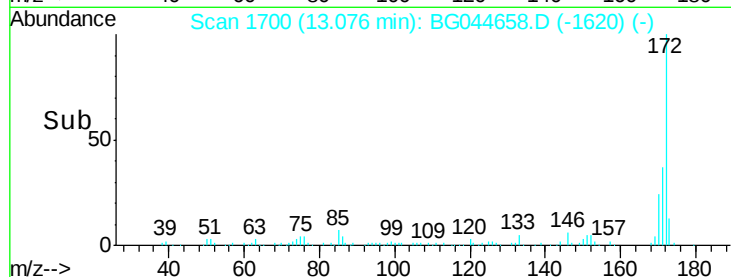
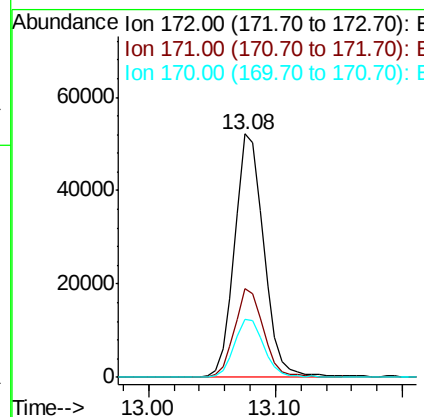
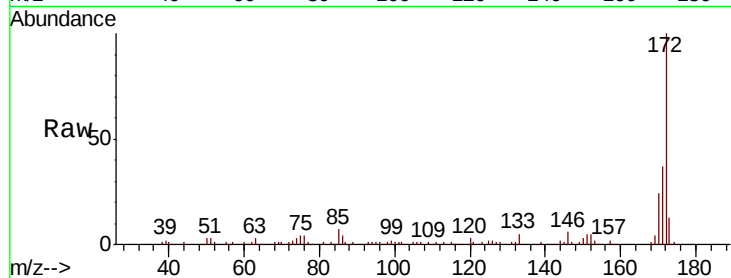




#45
2-Fluorobiphenyl
Concen: 4.838 ng
RT: 13.08 min Scan# 1700
Delta R.T. -0.06 min
Lab File: BG044658.D
Acq: 3 Mar 2020 9:23

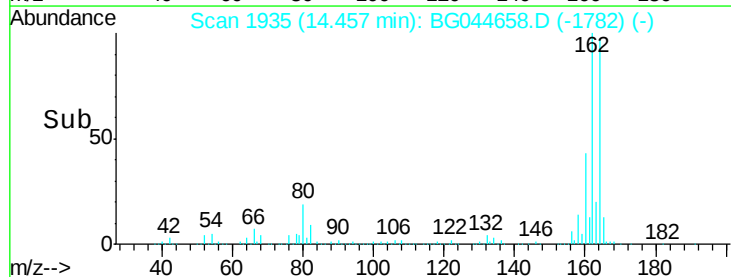
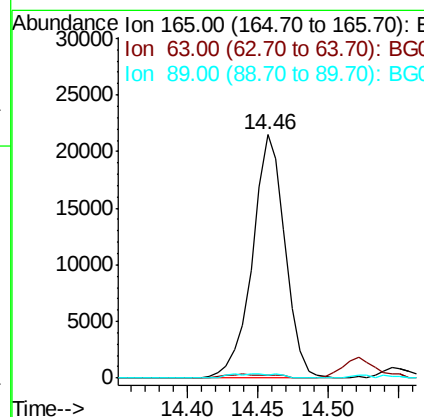
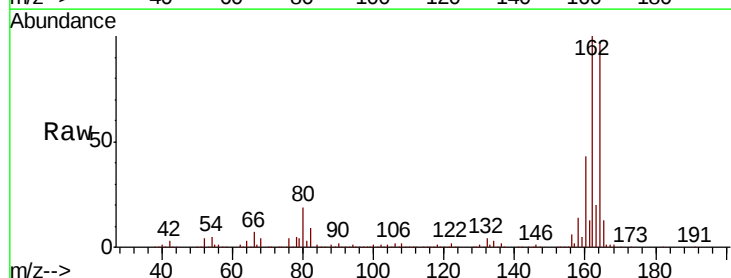
Instrument :
BNA_G
ClientSampleId :

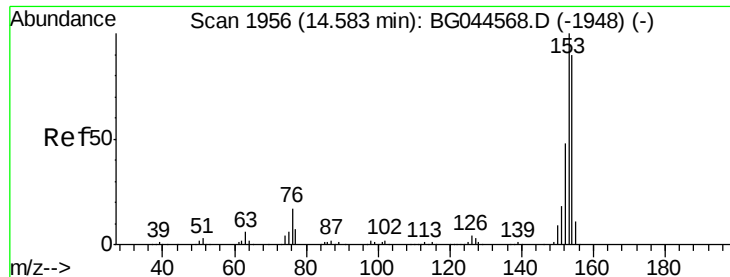
Tot Ion	Ratio	Lower	Upper
172	100		
171	36.6	31.3	46.9
170	24.0	21.0	31.4



#51
2,6-Dinitrotoluene
Concen: 7.991 ng
RT: 14.46 min Scan# 1935
Delta R.T. 0.37 min
Lab File: BG044658.D
Acq: 3 Mar 2020 9:23

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.3	35.8	53.6#
89	1.3	38.7	58.1#





#52

Acenaphthene

Concen: 2.343 ng

RT: 14.52 min Scan# 1946

Delta R.T. -0.06 min

Lab File: BG044658.D

Acq: 3 Mar 2020 9:23

Instrument :

BNA_G

ClientSampleId :

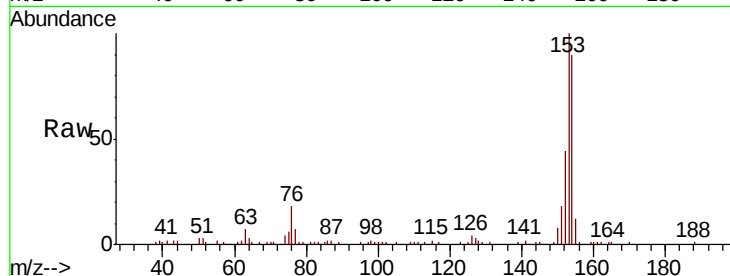
Tot Ion:154 Resp: 35084

Ion Ratio Lower Upper

154 100

153 111.7 89.4 134.0

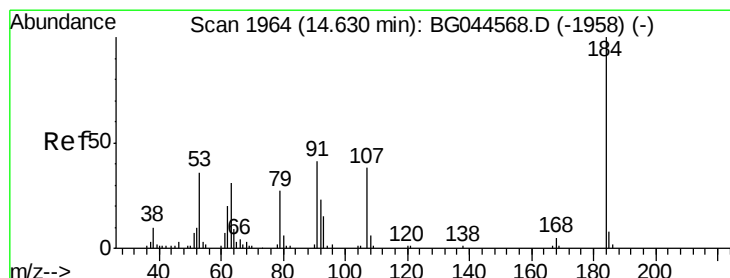
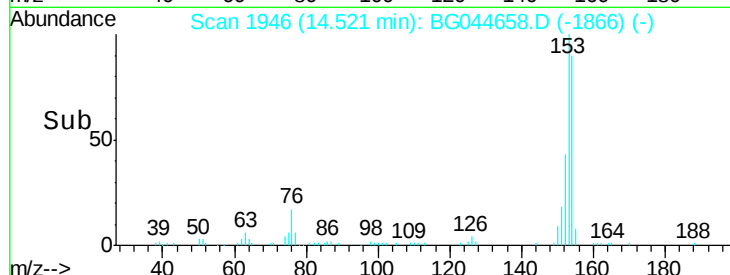
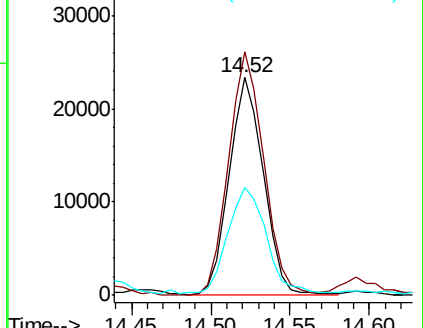
152 49.5 43.0 64.4



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

2,4-Dinitrophenol

Concen: 9.388 ng

RT: 14.59 min Scan# 1957

Delta R.T. -0.04 min

Lab File: BG044658.D

Acq: 3 Mar 2020 9:23

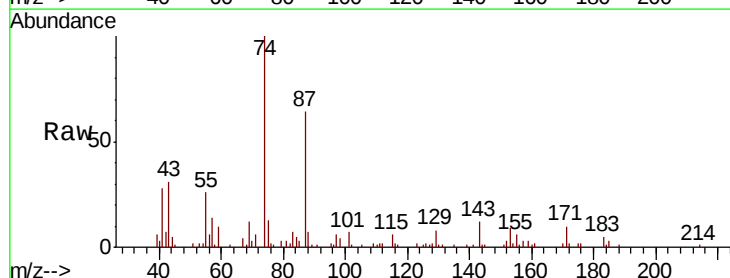
Tgt Ion:184 Resp: 57

Ion Ratio Lower Upper

184 100

63 126.1 42.1 63.1#

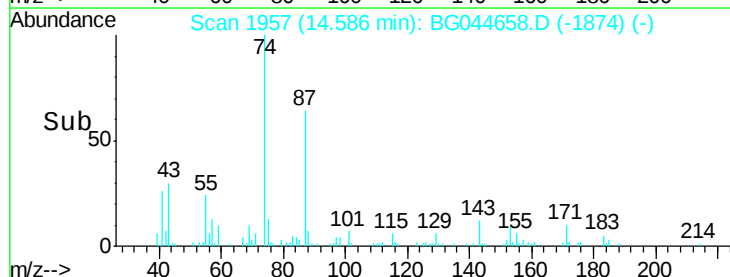
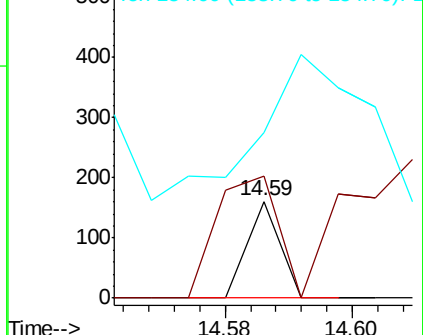
154 170.8 43.4 65.2#

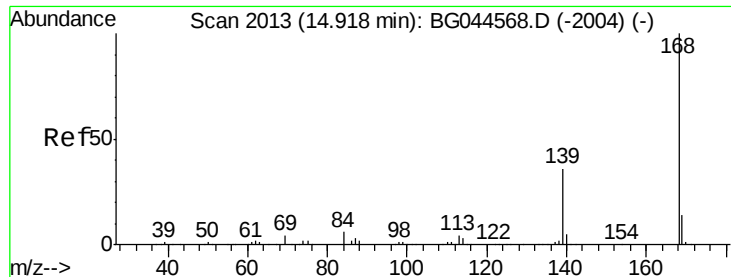


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BG0

Ion 154.00 (153.70 to 154.70): E

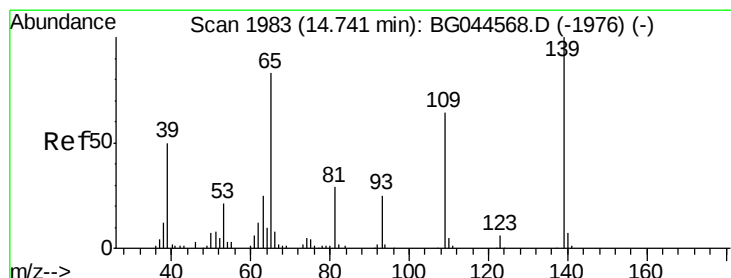
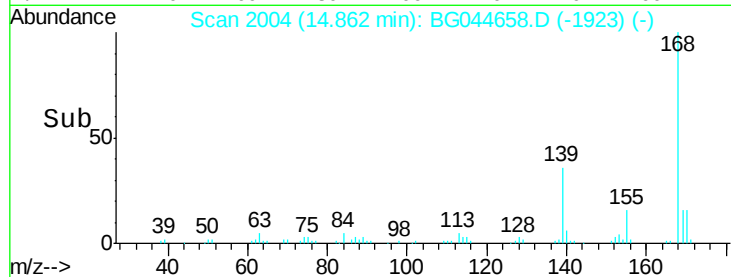
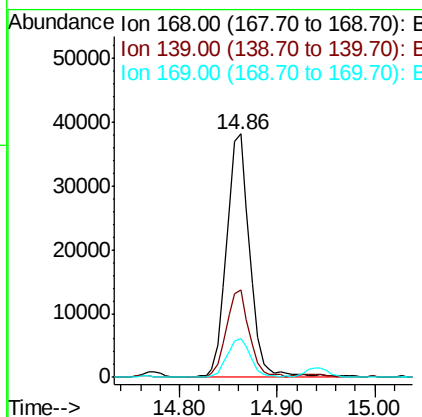
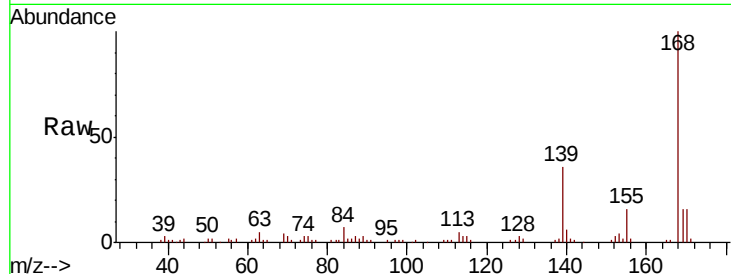




#55
Dibenzenofuran
Concen: 2.750 ng
RT: 14.86 min Scan# 2004
Delta R.T. -0.06 min
Lab File: BG044658.D
Acq: 3 Mar 2020 9:23

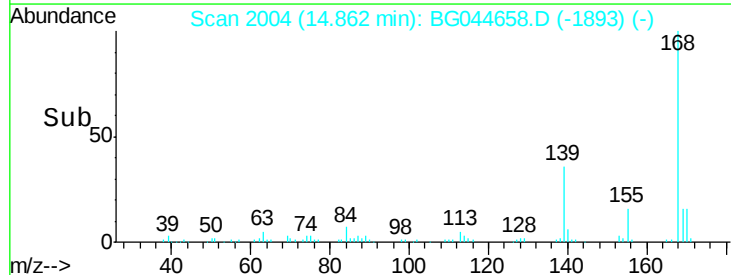
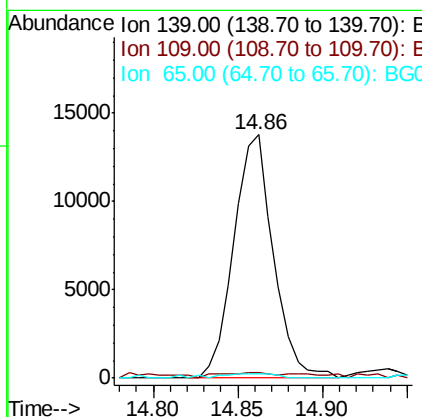
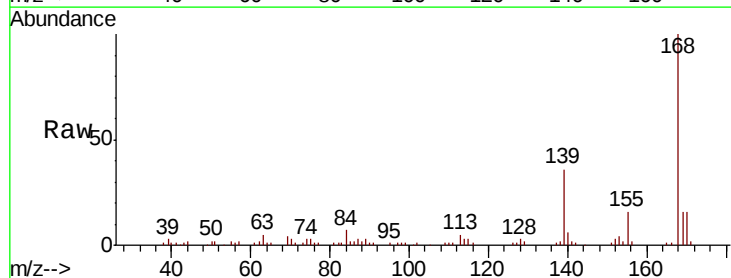
Instrument :
BNA_G
ClientSampled :

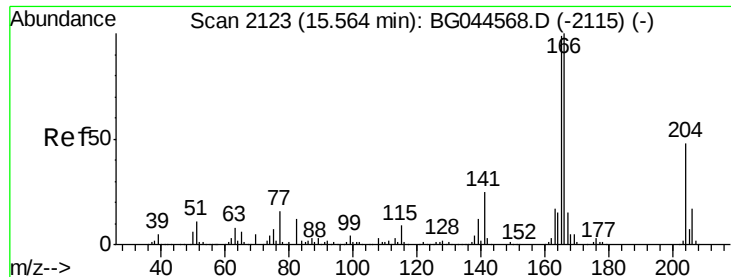
Tot Ion:168 Resp: 63139
Ion Ratio Lower Upper
168 100
139 36.1 29.2 43.8
169 15.8 11.0 16.6



#56
4-Nitrophenol
Concen: 6.934 ng
RT: 14.86 min Scan# 2004
Delta R.T. 0.12 min
Lab File: BG044658.D
Acq: 3 Mar 2020 9:23

Tgt Ion:139 Resp: 22457
Ion Ratio Lower Upper
139 100
109 2.4 43.8 83.8#
65 1.7 63.6 103.6#





#58

Fluorene

Concen: 5.964 ng

RT: 15.51 min Scan# 2114

Delta R.T. -0.06 min

Lab File: BG044658.D

Acq: 3 Mar 2020 9:23

Instrument :

BNA_G

ClientSampleId :

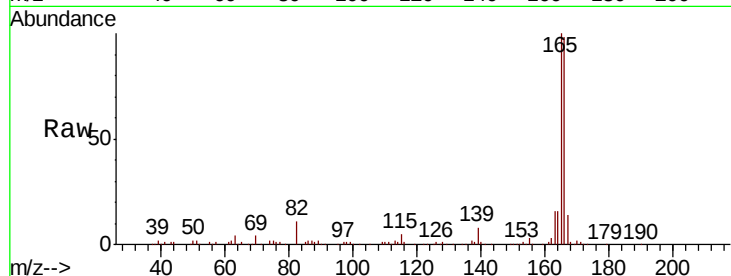
Tot Ion:166 Resp: 108560

Ion Ratio Lower Upper

166 100

165 102.5 79.2 118.8

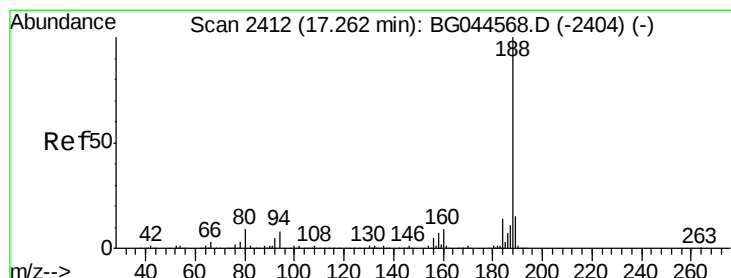
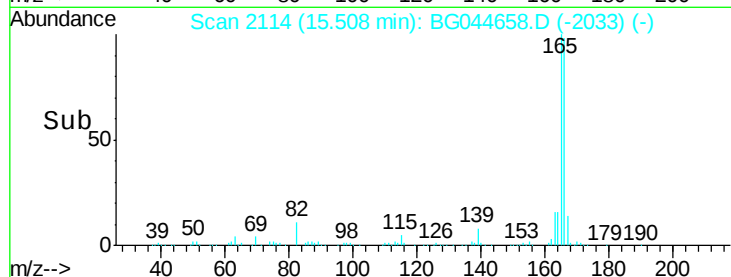
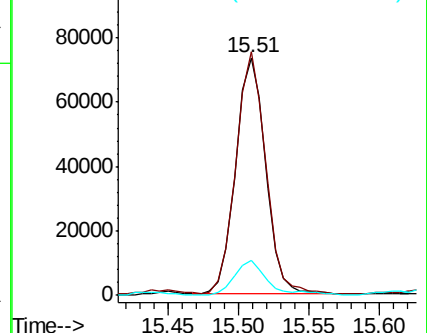
167 14.5 11.7 17.5



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



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.21 min Scan# 2403

Delta R.T. -0.06 min

Lab File: BG044658.D

Acq: 3 Mar 2020 9:23

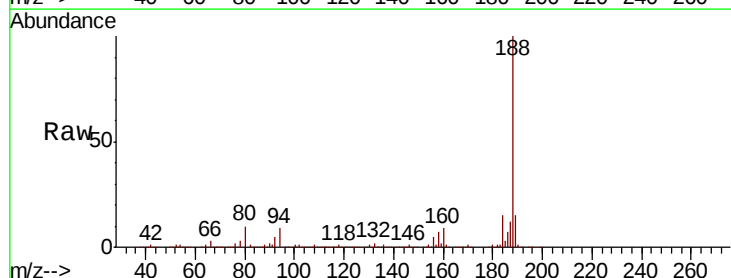
Tgt Ion:188 Resp: 488282

Ion Ratio Lower Upper

188 100

94 8.5 6.7 10.1

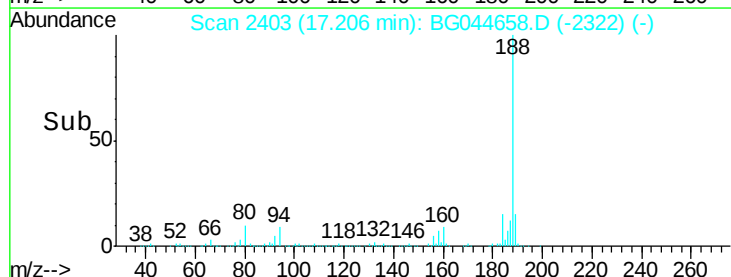
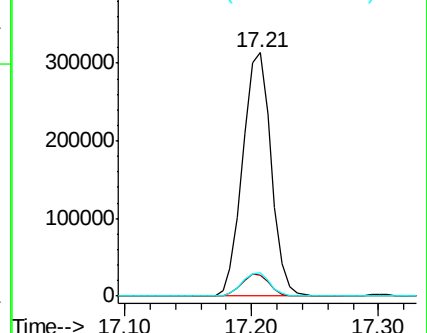
80 9.7 7.6 11.4

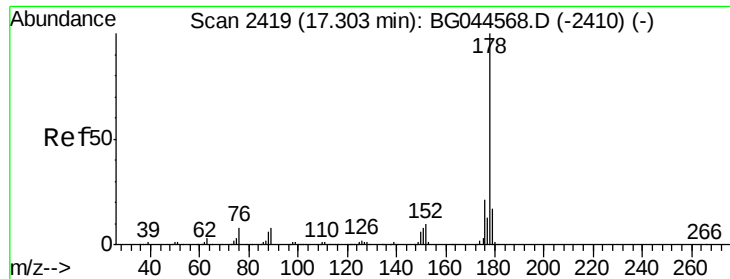


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC

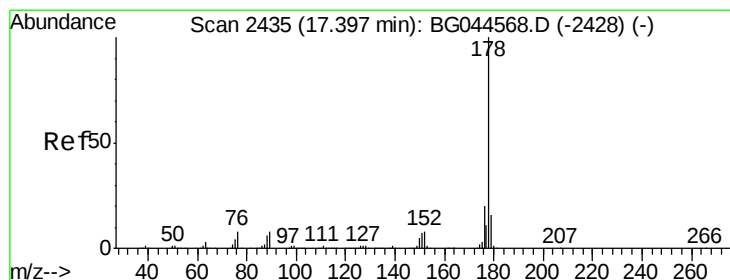
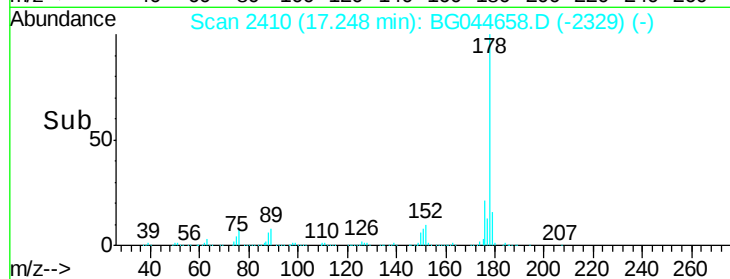
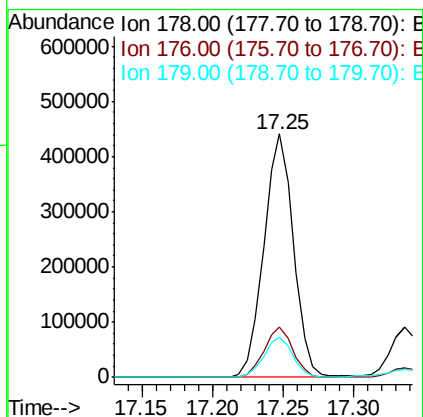
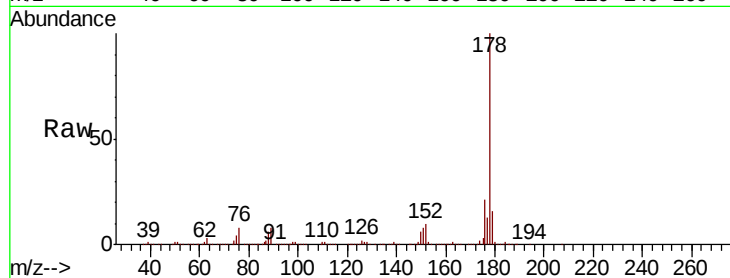




#71
Phenanthrene
Concen: 24.021 ng
RT: 17.25 min Scan# 2410
Delta R.T. -0.06 min
Lab File: BG044658.D
Acq: 3 Mar 2020 9:23

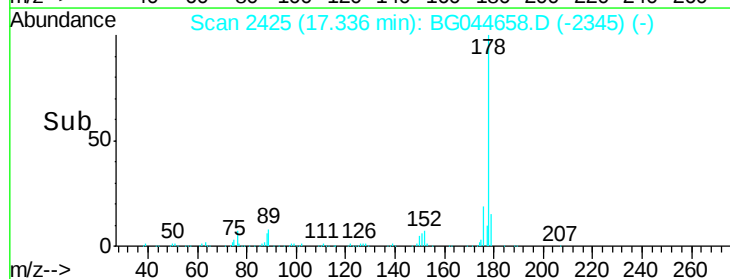
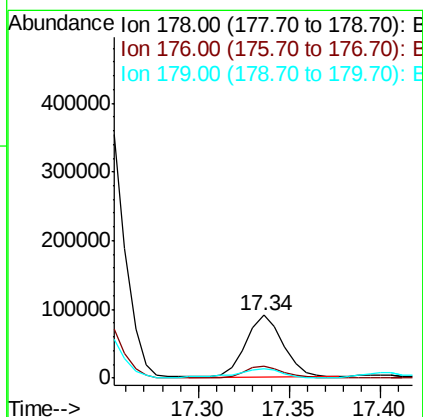
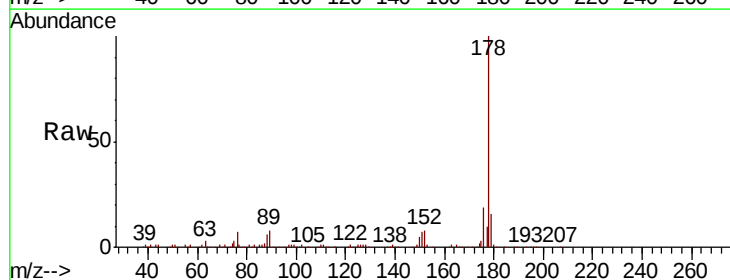
Instrument :
BNA_G
ClientSampleId :

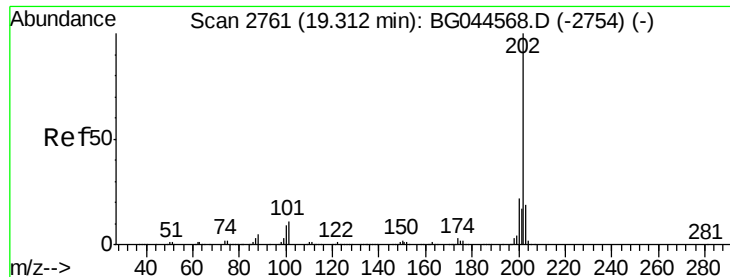
Tot Ion:178 Resp: 649354
Ion Ratio Lower Upper
178 100
176 20.7 16.6 25.0
179 16.2 13.3 19.9



#72
Anthracene
Concen: 4.798 ng
RT: 17.34 min Scan# 2425
Delta R.T. -0.06 min
Lab File: BG044658.D
Acq: 3 Mar 2020 9:23

Tgt Ion:178 Resp: 127816
Ion Ratio Lower Upper
178 100
176 18.9 15.9 23.9
179 15.9 13.1 19.7





#75

Fluoranthene

Concen: 19.542 ng

RT: 19.26 min Scan# 2753

Delta R.T. -0.05 min

Lab File: BG044658.D

Acq: 3 Mar 2020 9:23

Instrument :

BNA_G

ClientSampled :

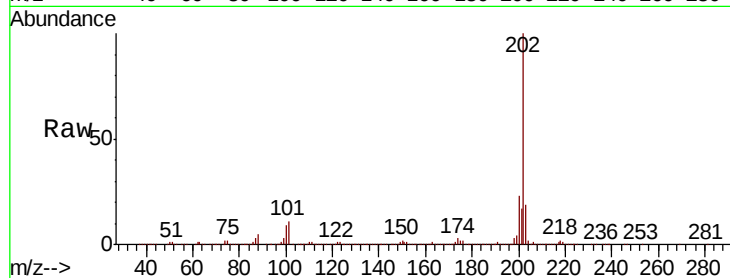
Tot Ion:202 Resp: 625366

Ion Ratio Lower Upper

202 100

101 10.7 0.0 31.0

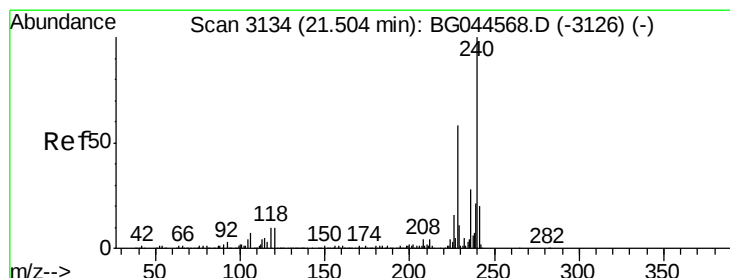
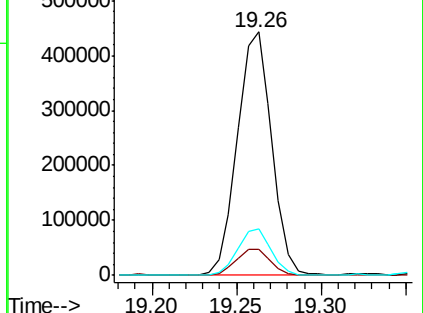
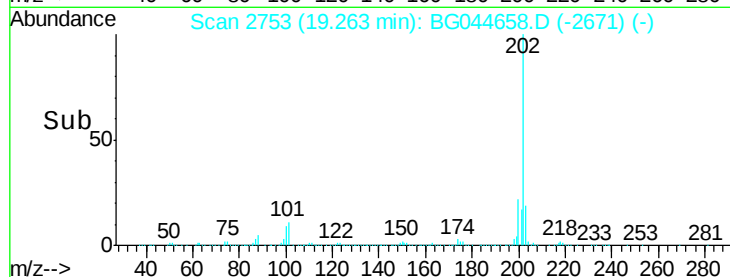
203 19.0 0.0 39.2



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.44 min Scan# 3124

Delta R.T. -0.06 min

Lab File: BG044658.D

Acq: 3 Mar 2020 9:23

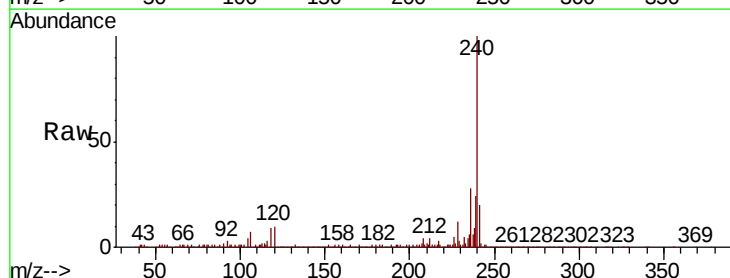
Tgt Ion:240 Resp: 421086

Ion Ratio Lower Upper

240 100

120 9.7 8.3 12.5

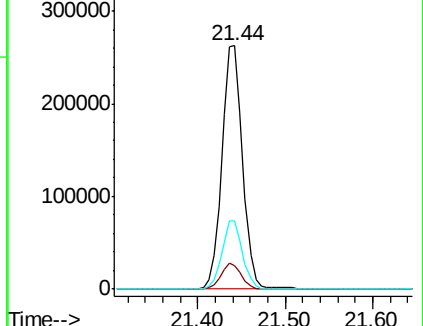
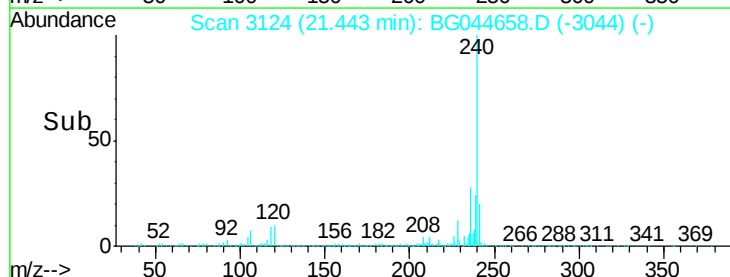
236 28.0 22.3 33.5

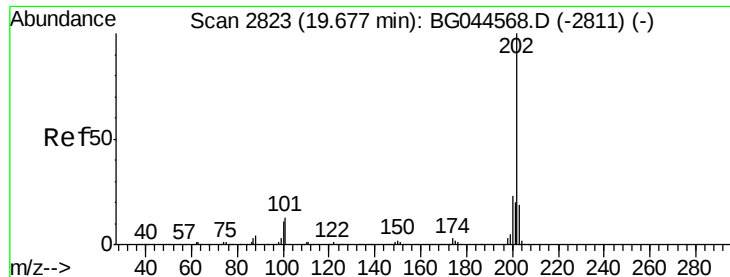


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

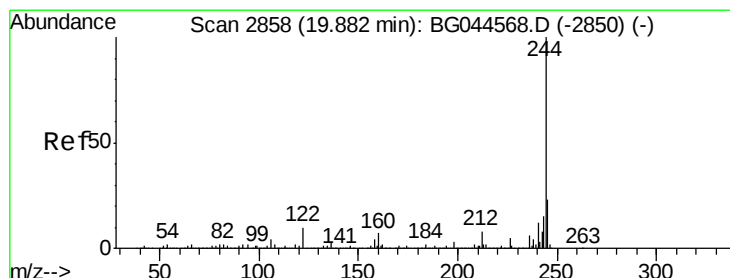
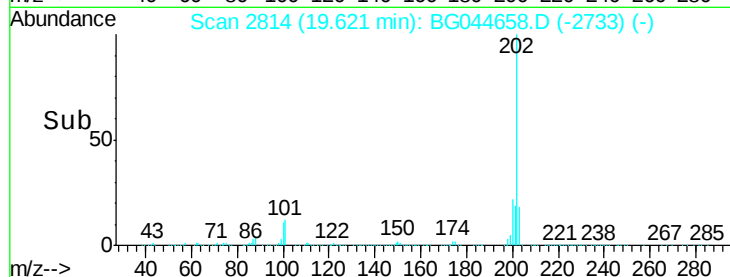
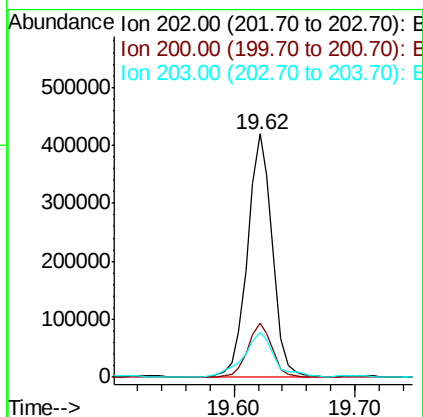
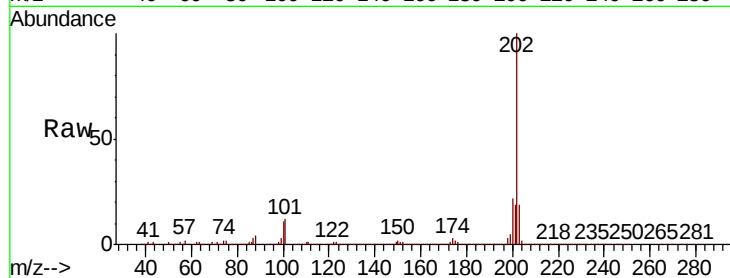




#78
Pvrene
Concen: 19.584 ng
RT: 19.62 min Scan# 2814
Delta R.T. -0.06 min
Lab File: BG044658.D
Acq: 3 Mar 2020 9:23

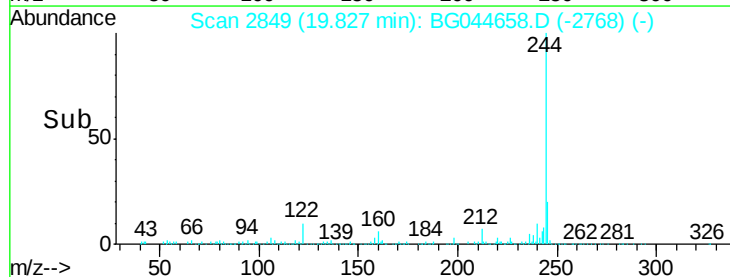
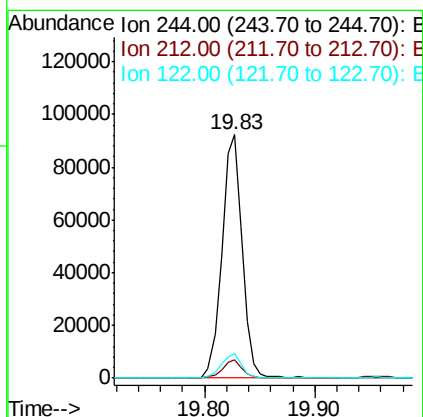
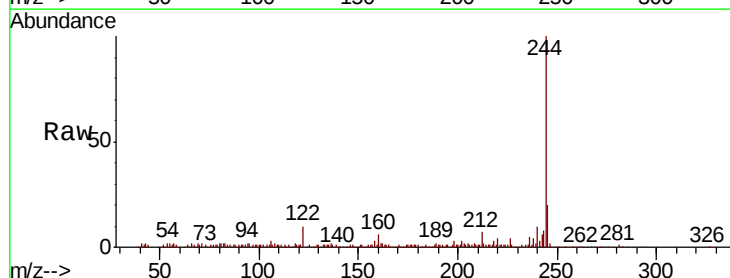
Instrument :
BNA_G
ClientSampled :

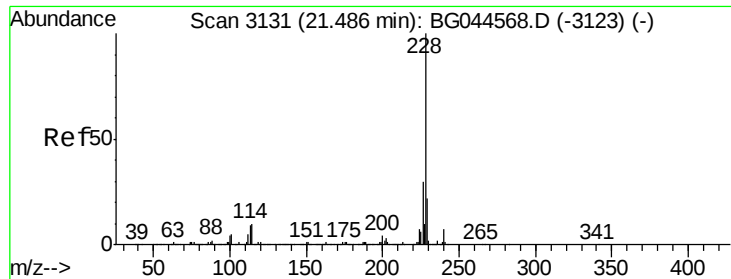
Tot Ion:202 Resp: 598624
Ion Ratio Lower Upper
202 100
200 22.4 18.6 28.0
203 18.6 15.3 22.9



#79
Terphenyl-d14
Concen: 5.302 ng
RT: 19.83 min Scan# 2849
Delta R.T. -0.06 min
Lab File: BG044658.D
Acq: 3 Mar 2020 9:23

Tgt Ion:244 Resp: 117932
Ion Ratio Lower Upper
244 100
212 7.4 6.5 9.7
122 10.2 8.2 12.4

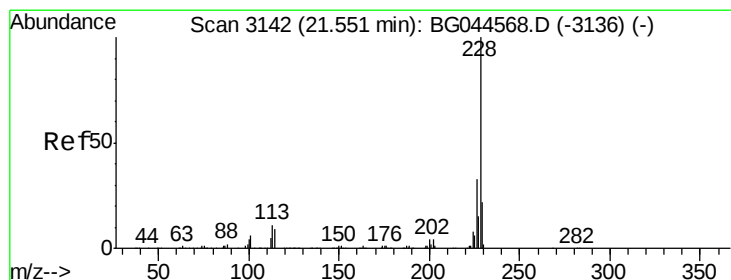
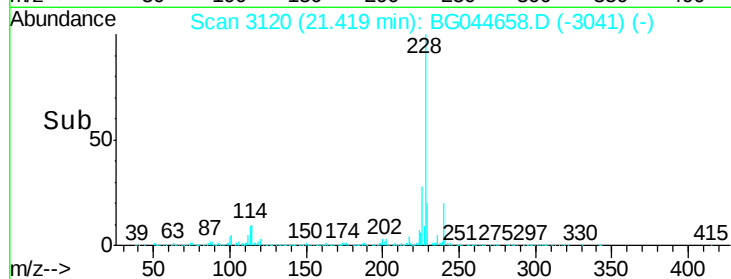
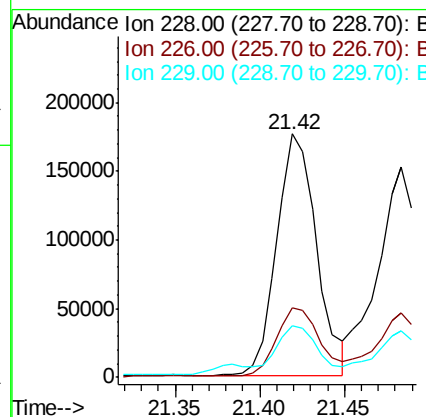
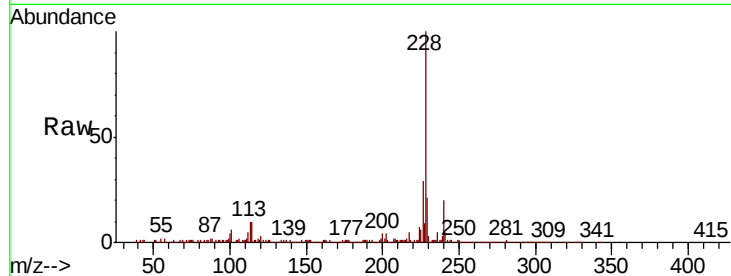




#81
Benzo(a)anthracene
Concen: 9.689 ng
RT: 21.42 min Scan# 3120
Delta R.T. -0.07 min
Lab File: BG044658.D
Acq: 3 Mar 2020 9:23

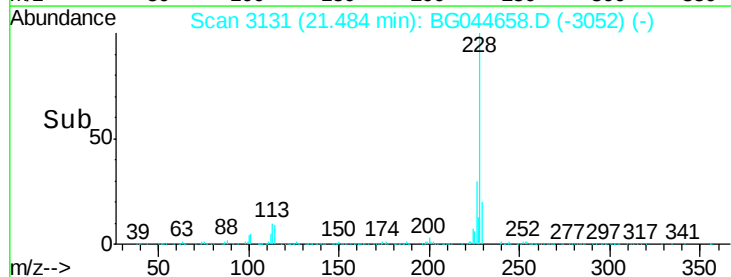
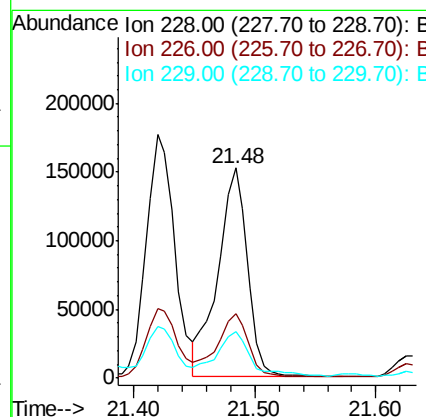
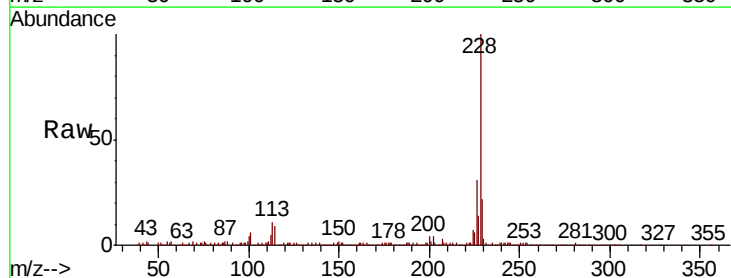
Instrument :
BNA_G
ClientSampleId :

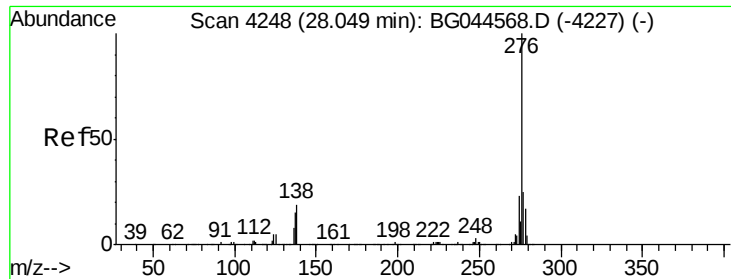
Tot Ion	Ratio	Lower	Upper
228	100		
226	28.6	23.8	35.8
229	21.3	17.2	25.8



#83
Chrysene
Concen: 8.975 ng
RT: 21.48 min Scan# 3131
Delta R.T. -0.07 min
Lab File: BG044658.D
Acq: 3 Mar 2020 9:23

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	26.1	39.1
229	22.2	17.2	25.8

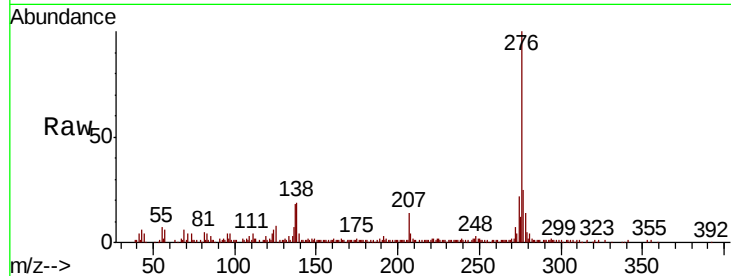




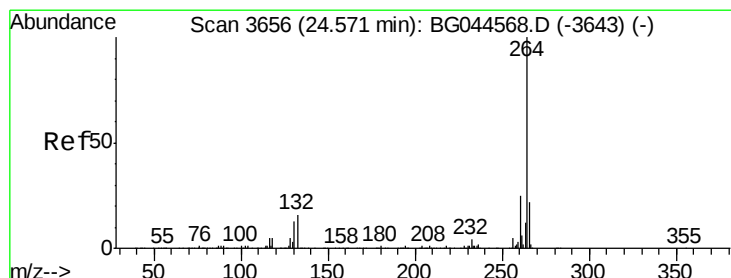
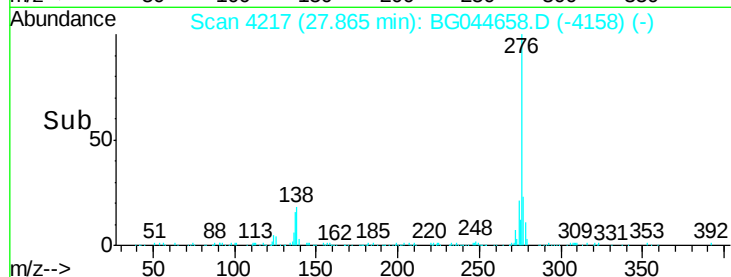
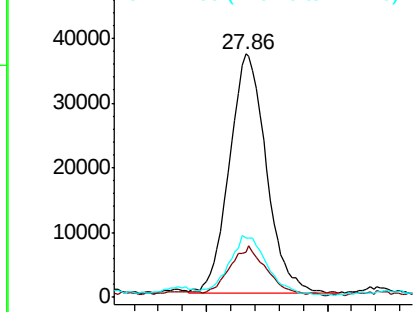
#86
Indeno(1,2,3-cd)pyrene
Concen: 4.301 ng
RT: 27.86 min Scan# 4217
Delta R.T. -0.18 min
Lab File: BG044658.D
Acq: 3 Mar 2020 9:23

Instrument :
BNA_G
ClientSampled :

Tot Ion	Ratio	Lower	Upper
276	100		
138	18.9	18.2	27.4
277	26.0	20.7	31.1

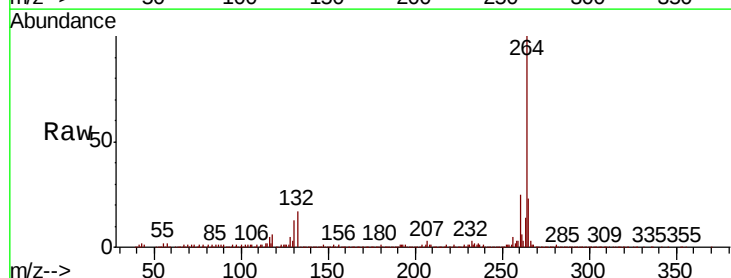


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

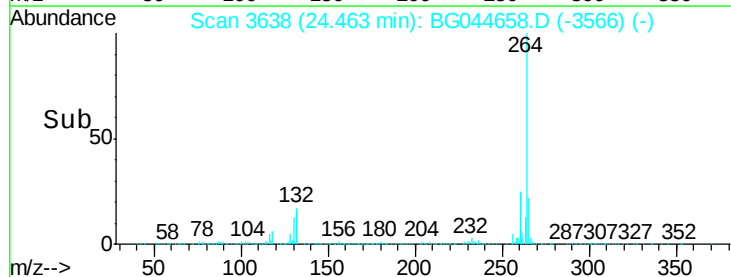
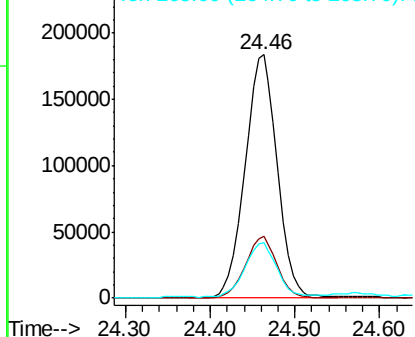


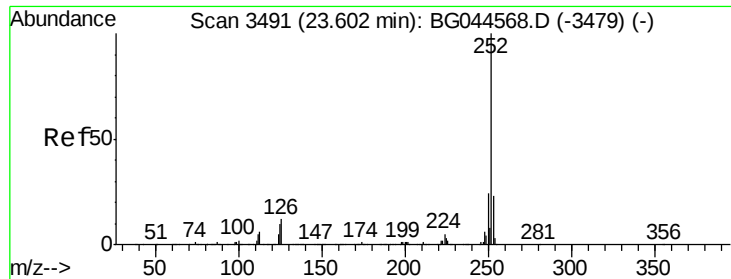
#87
Perylene-d12
Concen: 20.000 ng
RT: 24.46 min Scan# 3638
Delta R.T. -0.11 min
Lab File: BG044658.D
Acq: 3 Mar 2020 9:23

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.5	19.7	29.5
265	22.5	17.8	26.8



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

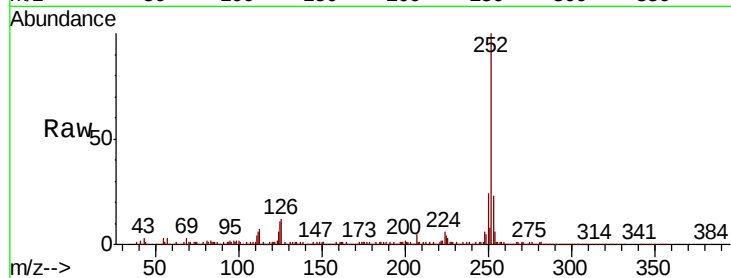




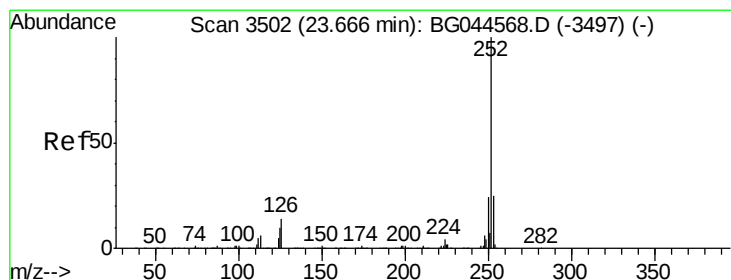
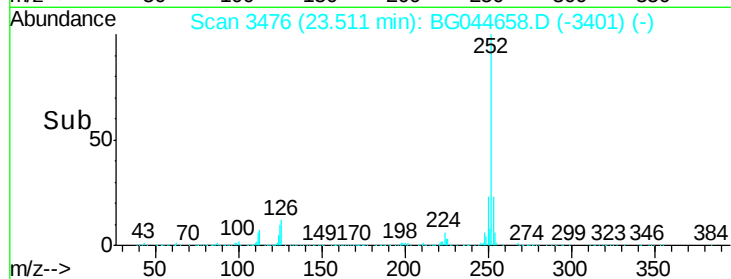
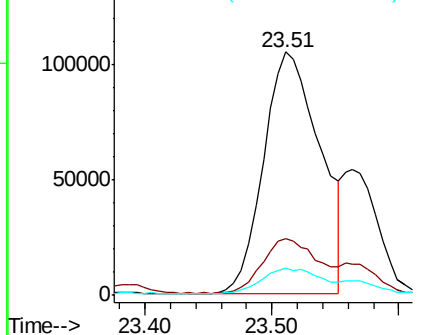
#88
Benzo(b)fluoranthene
Concen: 10.228 ng
RT: 23.51 min Scan# 3476
Delta R.T. -0.09 min
Lab File: BG044658.D
Acq: 3 Mar 2020 9:23

Instrument :
BNA_G
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.4	27.6
125	11.0	7.9	11.9



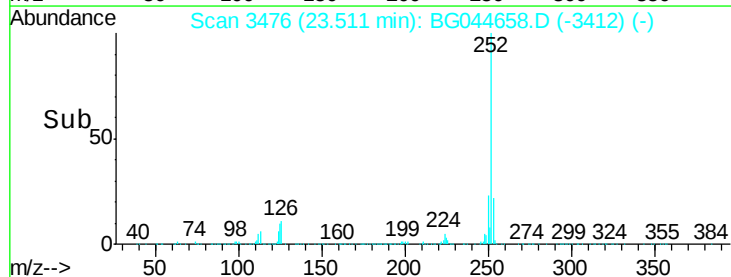
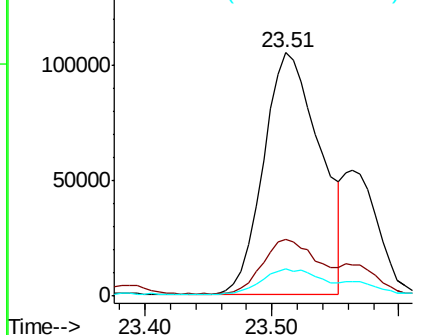
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

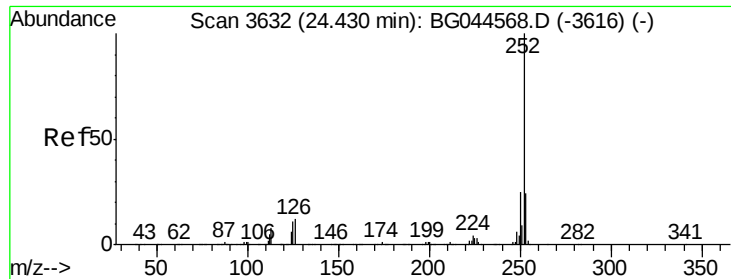


#89
Benzo(k)fluoranthene
Concen: 10.541 ng
RT: 23.51 min Scan# 3476
Delta R.T. -0.16 min
Lab File: BG044658.D
Acq: 3 Mar 2020 9:23

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	19.0	28.6
125	11.0	7.8	11.8

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

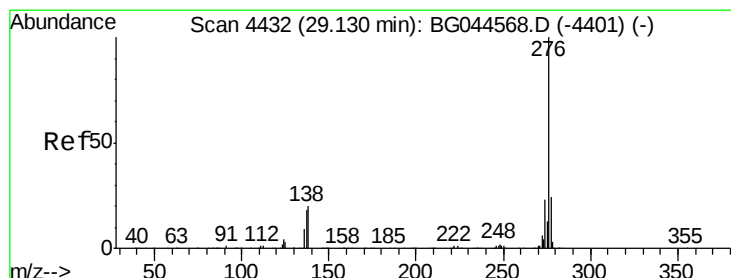
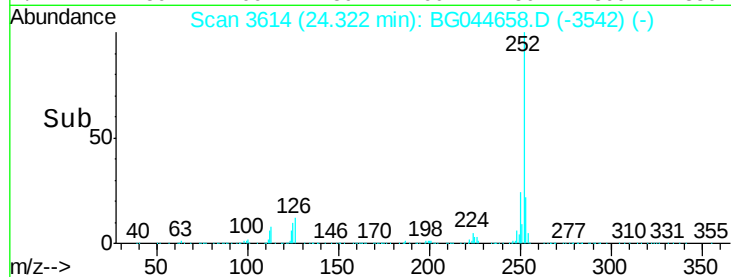
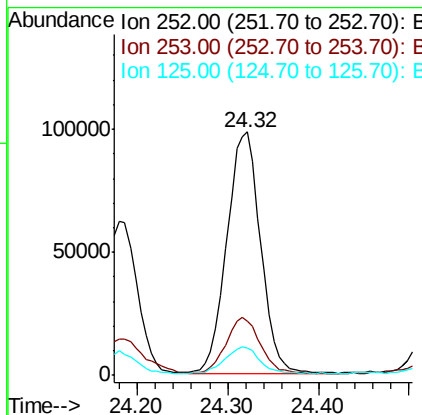
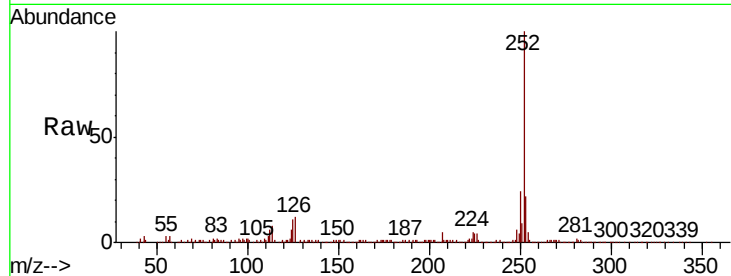




#90
Benzo(a)pyrene
Concen: 8.463 ng
RT: 24.32 min Scan# 3614
Delta R.T. -0.11 min
Lab File: BG044658.D
Acq: 3 Mar 2020 9:23

Instrument :
BNA_G
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.5	19.0	28.4
125	11.0	8.5	12.7



#92
Benzo(g,h,i)perylene
Concen: 5.212 ng
RT: 28.93 min Scan# 4398
Delta R.T. -0.20 min
Lab File: BG044658.D
Acq: 3 Mar 2020 9:23

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.7	19.5	29.3
138	21.3	16.1	24.1

