

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG010720\
 Data File : BG043958.D
 Acq On : 7 Jan 2020 17:35
 Operator : JU
 Sample : K6463-02
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Jan 07 18:11:03 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG123019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 31 13:32:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.96	152	175158	20.00	ng	0.00
21) Naphthalene-d8	10.77	136	716088	20.00	ng	0.00
39) Acenaphthene-d10	14.59	164	423345	20.00	ng	0.00
64) Phenanthrene-d10	17.34	188	818982	20.00	ng	0.00
76) Chrysene-d12	21.59	240	692272	20.00	ng	0.00
87) Perylene-d12	24.72	264	787957	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.54	112	1019720	106.89	ng	0.00
7) Phenol-d6	7.13	99	1420584	106.53	ng	0.00
23) Nitrobenzene-d5	9.12	82	850390	63.53	ng	0.00
42) 2,4,6-Tribromophenol	16.08	330	423914	95.69	ng	0.00
45) 2-Fluorobiphenyl	13.22	172	1497161	64.07	ng	0.00
79) Terphenyl-d14	19.95	244	1728370	53.84	ng	0.00

Target Compounds

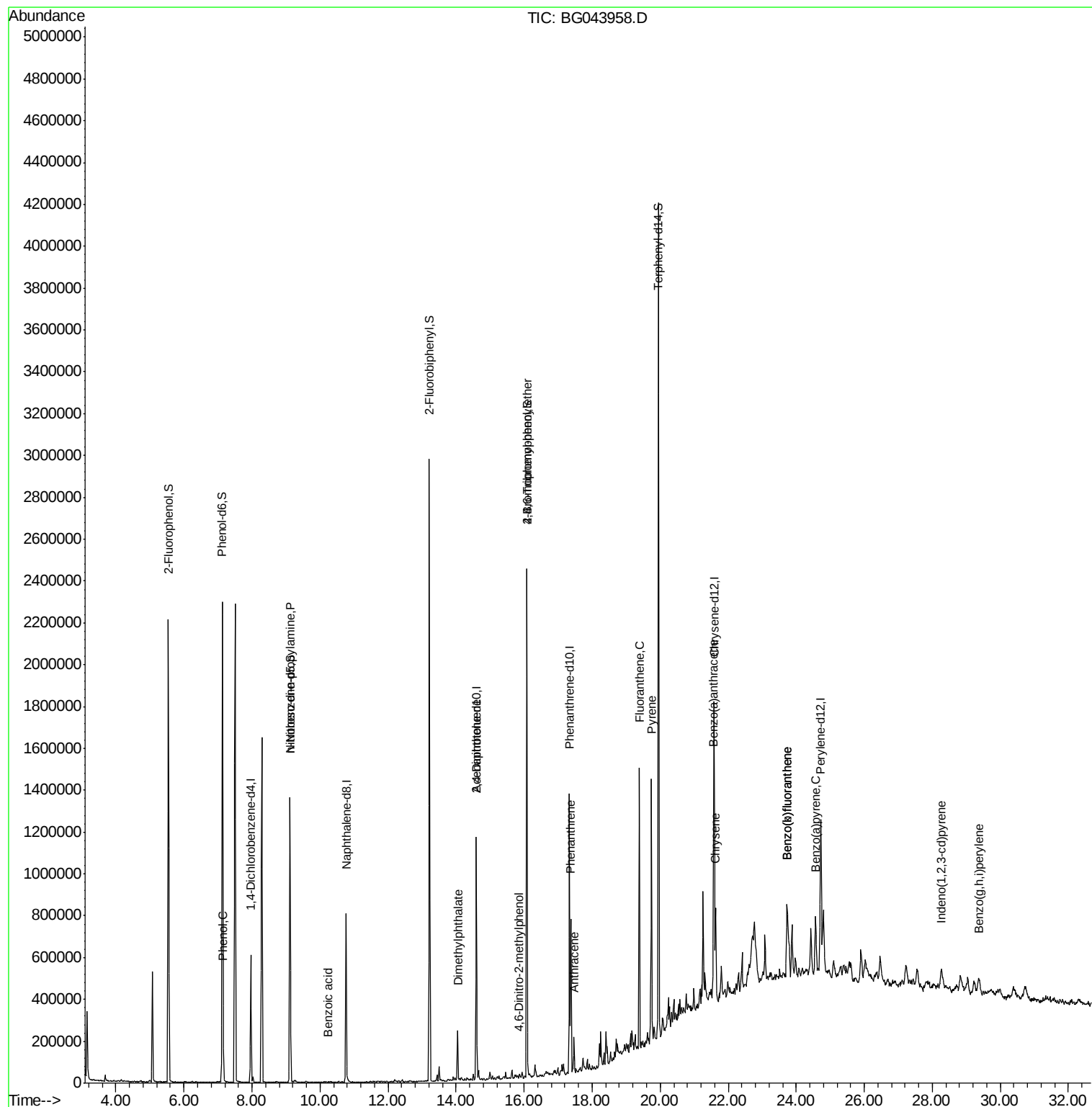
						Qvalue
10) Phenol	7.16	94	41292	3.005	ng	97
19) n-Nitroso-di-n-propylamine	9.12	70	114335	11.514	ng	# 78
32) Benzoic acid	10.25	122	69	6.270	ng	# 1
50) Dimethylphthalate	14.05	163	159062	5.292	ng	# 98
57) 2,4-Dinitrotoluene	14.59	165	55913	6.048	ng	# 27
65) 4,6-Dinitro-2-methylphenol	15.84	198	59	4.402	ng	# 1
67) 4-Bromophenyl-phenylether	16.08	248	31730	3.445	ng	# 1
71) Phenanthrene	17.38	178	456812	11.629	ng	96
72) Anthracene	17.46	178	100147	2.580	ng	95
75) Fluoranthene	19.39	202	789345	17.570	ng	95
78) Pyrene	19.74	202	723798	16.018	ng	94
81) Benzo(a)anthracene	21.57	228	359028	8.364	ng	96
83) Chrysene	21.63	228	312870	7.671	ng	96
86) Indeno(1,2,3-cd)pyrene	28.26	276	172402	3.110	ng	93
88) Benzo(b)fluoranthene	23.73	252	419161	8.998	ng	98
89) Benzo(k)fluoranthene	23.73	252	419161	9.463	ng	98
90) Benzo(a)pyrene	24.57	252	321693	7.317	ng	98
92) Benzo(g,h,i)perylene	29.37	276	159229	3.630	ng	96

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

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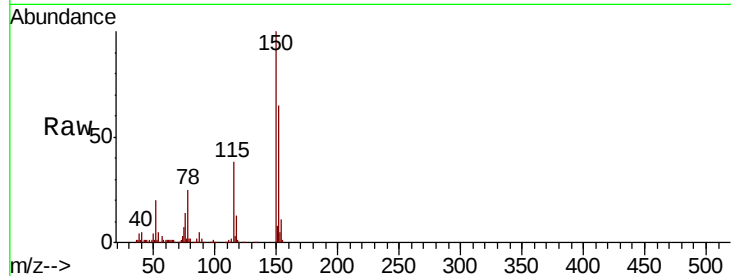


#1

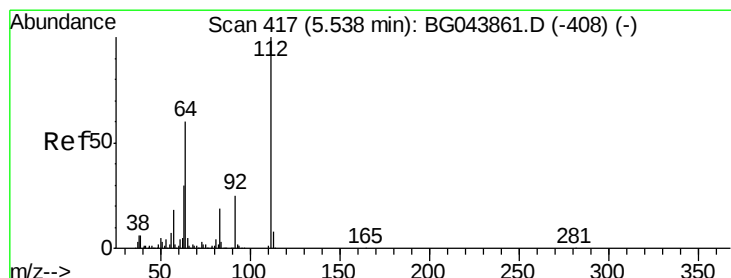
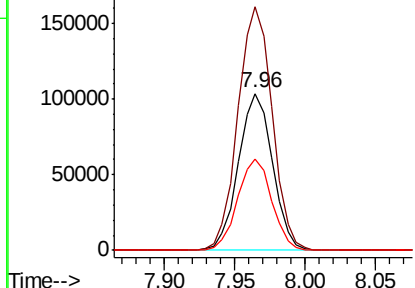
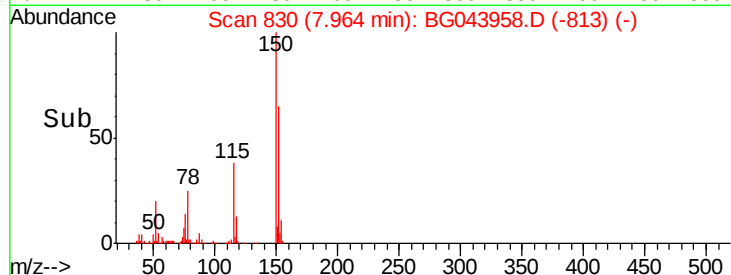
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.96 min Scan# 830
Delta R.T. -0.00 min
Lab File: BG043958.D
Acq: 7 Jan 2020 17:35

Instrument :
BNA_G
ClientSampleId :

Tot Ion:152 Resp: 175158
Ion Ratio Lower Upper
152 100
150 154.9 127.0 190.4
115 58.1 47.8 71.8



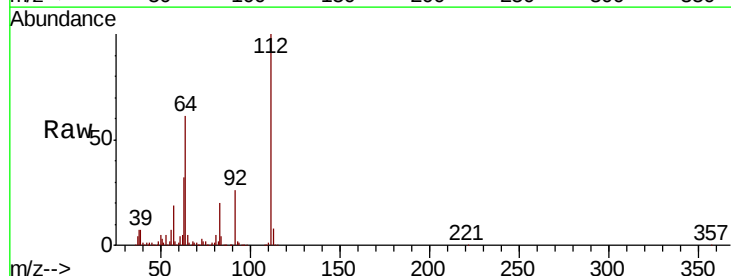
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



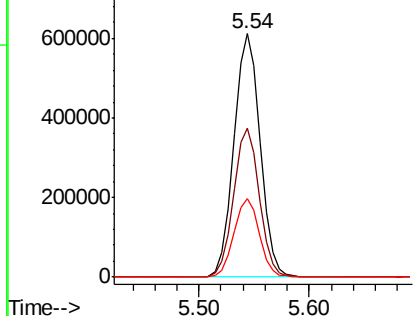
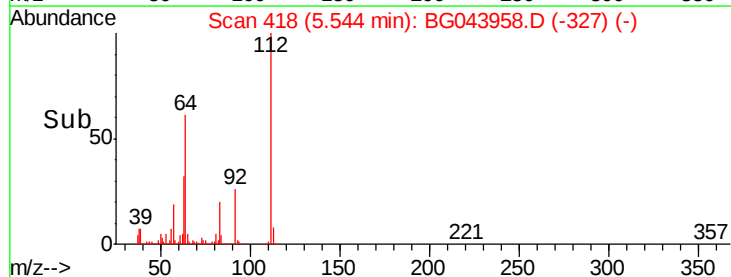
#5

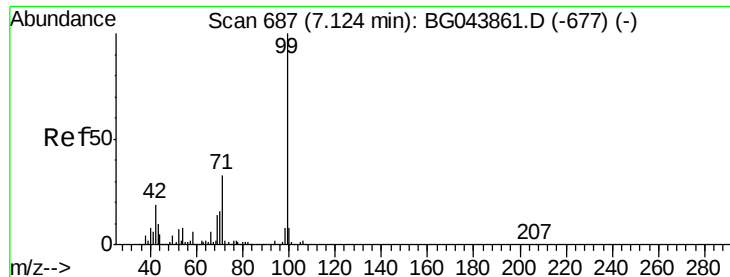
2-Fluorophenol
Concen: 106.894 ng
RT: 5.54 min Scan# 418
Delta R.T. 0.01 min
Lab File: BG043958.D
Acq: 7 Jan 2020 17:35

Tgt Ion:112 Resp: 1019720
Ion Ratio Lower Upper
112 100
64 61.3 47.8 71.6
63 32.4 24.3 36.5



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BG0
Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 106.534 ng

RT: 7.13 min Scan# 688

Delta R.T. 0.01 min

Lab File: BG043958.D

Acq: 7 Jan 2020 17:35

Instrument :

BNA_G

ClientSampleId :

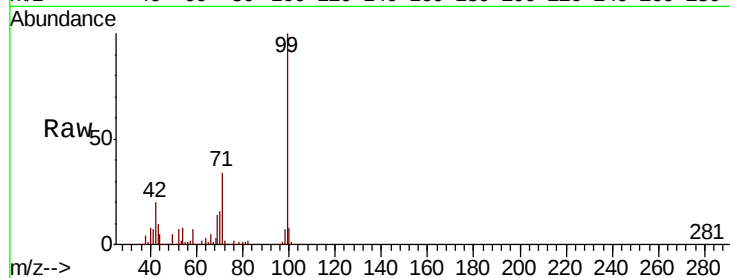
Tot Ion: 99 Resp: 1420584

Ion Ratio Lower Upper

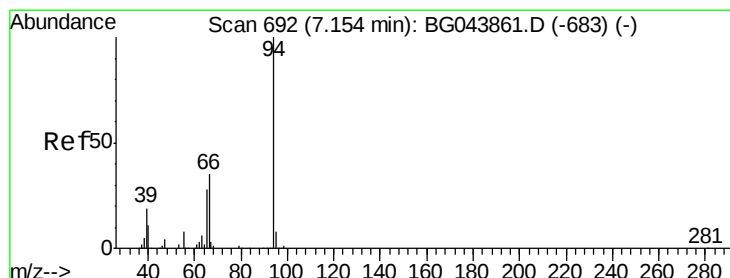
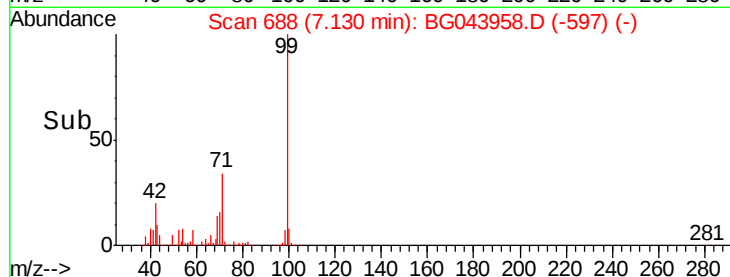
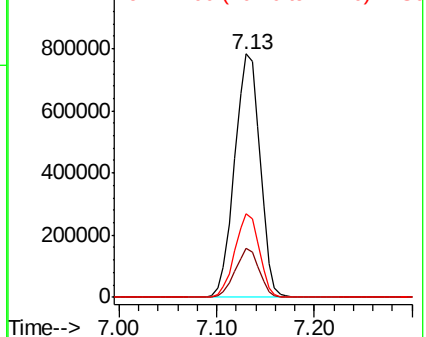
99 100

42 20.0 14.9 22.3

71 34.2 26.4 39.6



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



#10

Phenol

Concen: 3.005 ng

RT: 7.16 min Scan# 693

Delta R.T. 0.01 min

Lab File: BG043958.D

Acq: 7 Jan 2020 17:35

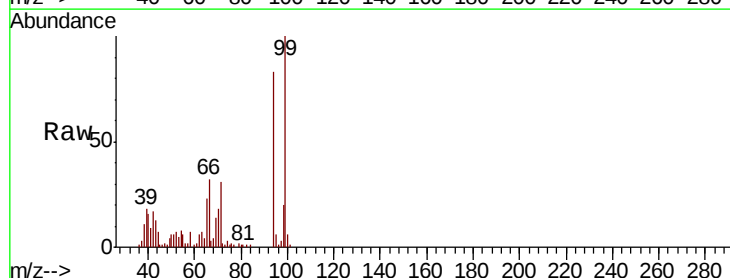
Tgt Ion: 94 Resp: 41292

Ion Ratio Lower Upper

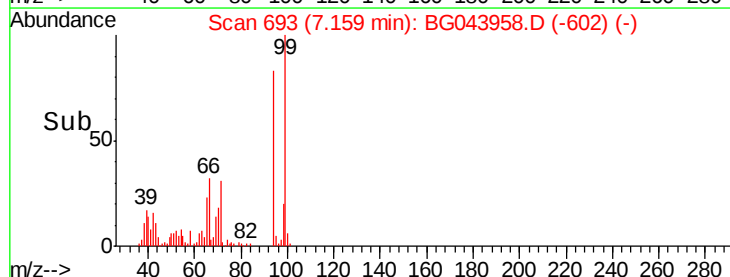
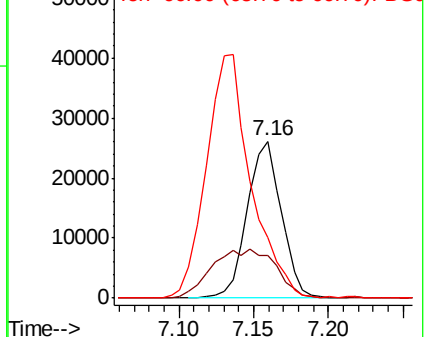
94 100

65 27.3 8.1 48.1

66 38.3 15.6 55.6



Abundance Ion 94.00 (93.70 to 94.70): BGC
Ion 65.00 (64.70 to 65.70): BGC
Ion 66.00 (65.70 to 66.70): BGC

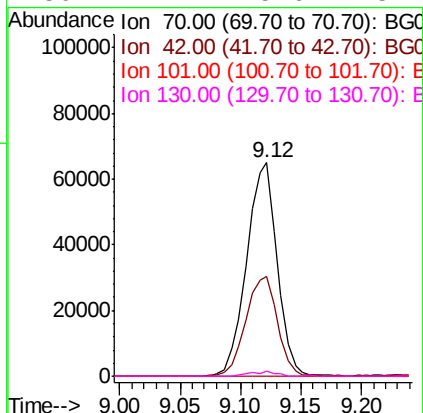
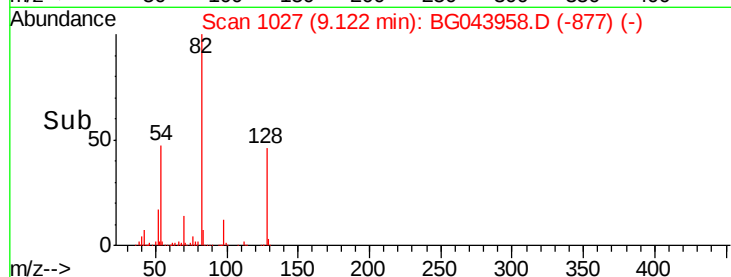
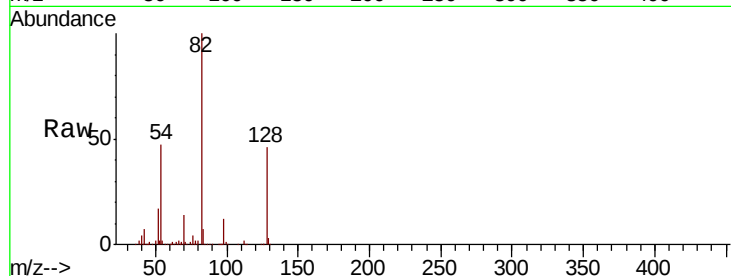




#19
n-Nitroso-di-n-propylamine
Concen: 11.514 ng
RT: 9.12 min Scan# 1027
Delta R.T. 0.35 min
Lab File: BG043958.D
Acq: 7 Jan 2020 17:35

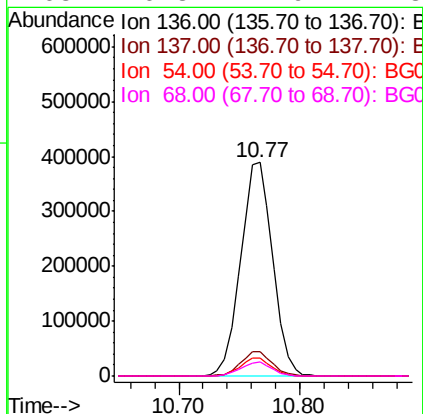
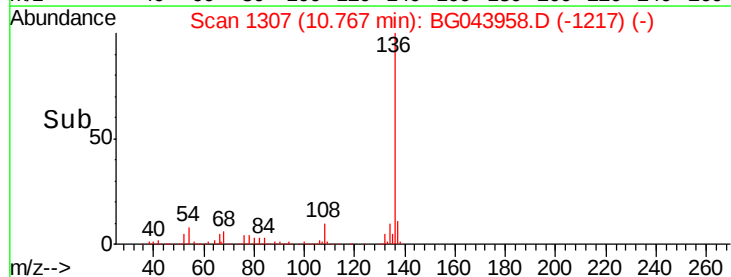
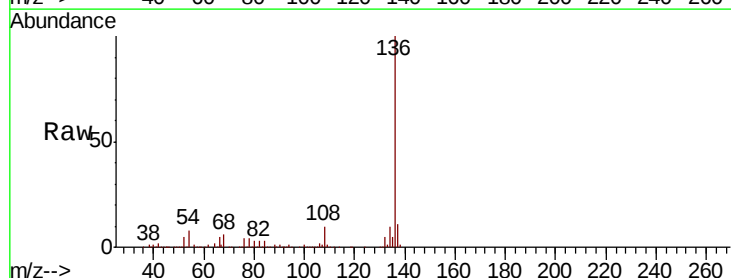
Instrument :
BNA_G
ClientSampled :

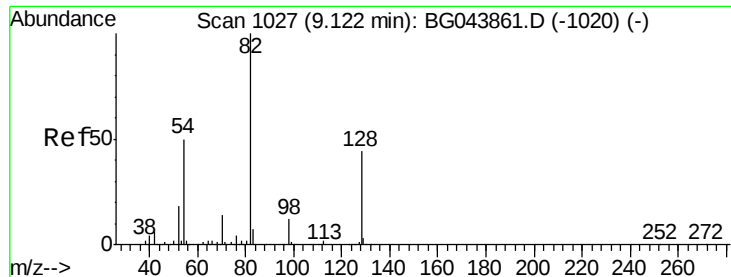
Tot Ion: 70 Resp: 114335
Ion Ratio Lower Upper
70 100
42 46.7 47.0 70.4#
101 0.0 7.2 10.8#
130 2.4 15.6 23.4#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.77 min Scan# 1307
Delta R.T. -0.00 min
Lab File: BG043958.D
Acq: 7 Jan 2020 17:35

Tgt Ion: 136 Resp: 716088
Ion Ratio Lower Upper
136 100
137 11.4 8.8 13.2
54 8.4 7.0 10.4
68 6.3 4.9 7.3

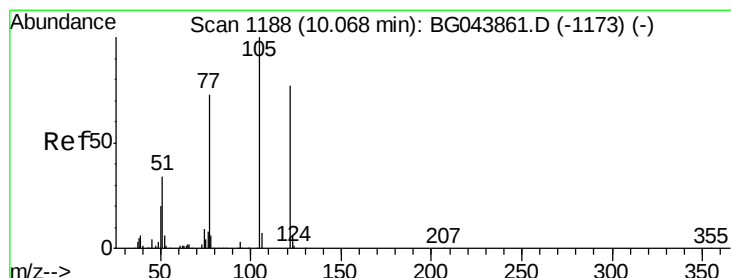
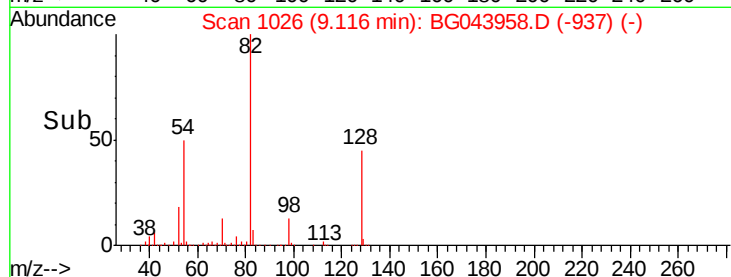
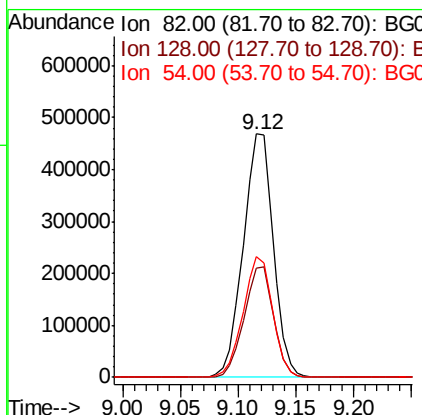
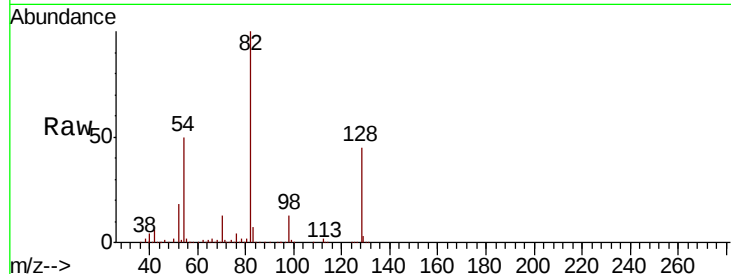




#23
 Nitrobenzene-d5
 Concen: 63.529 ng
 RT: 9.12 min Scan# 1026
 Delta R.T. -0.01 min
 Lab File: BG043958.D
 Acq: 7 Jan 2020 17:35

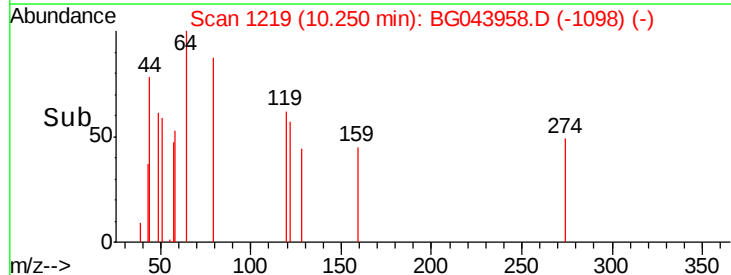
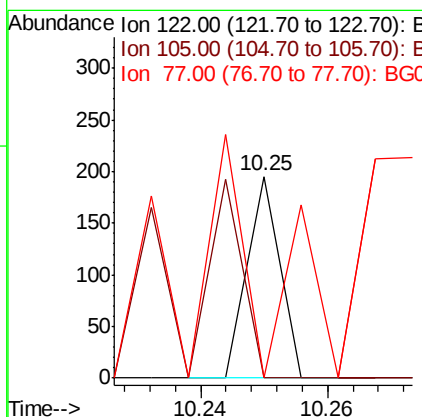
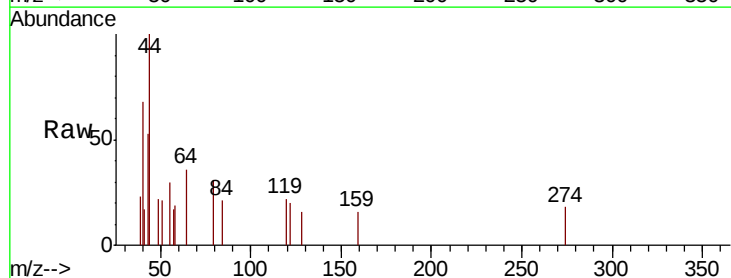
Instrument :
 BNA_G
 ClientSampleId :

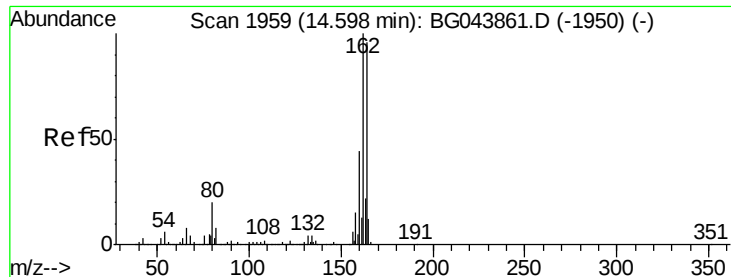
Tot Ion	82	Resp	850390
Ion Ratio	Lower	Upper	
82	100		
128	44.9	35.1	52.7
54	49.8	40.1	60.1



#32
 Benzoic acid
 Concen: 6.270 ng
 RT: 10.25 min Scan# 1219
 Delta R.T. 0.18 min
 Lab File: BG043958.D
 Acq: 7 Jan 2020 17:35

Tgt Ion	122	Resp	69
Ion Ratio	Lower	Upper	
122	100		
105	0.0	106.4	146.4#
77	0.0	74.6	114.6#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.59 min Scan# 1958

Delta R.T. -0.01 min

Lab File: BG043958.D

Acq: 7 Jan 2020 17:35

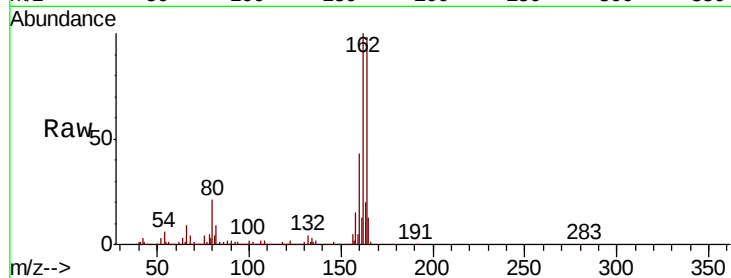
Instrument :

BNA_G

ClientSampleId :

Tot Ion:164 Resp: 423345

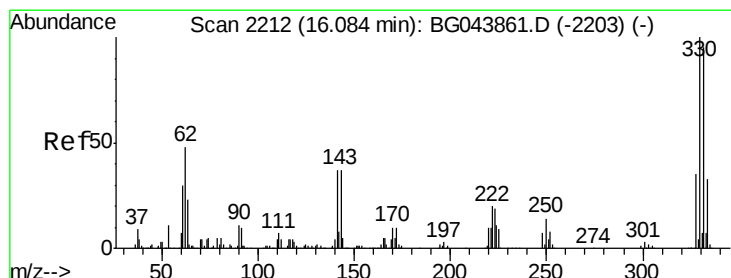
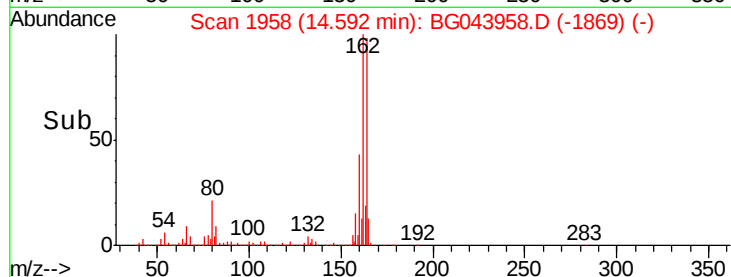
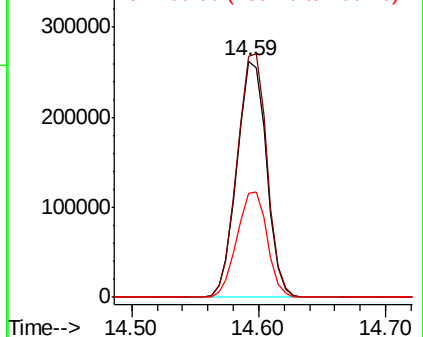
Ion	Ratio	Lower	Upper
164	100		
162	102.2	83.0	124.4
160	44.3	36.1	54.1



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: 95.687 ng

RT: 16.08 min Scan# 2211

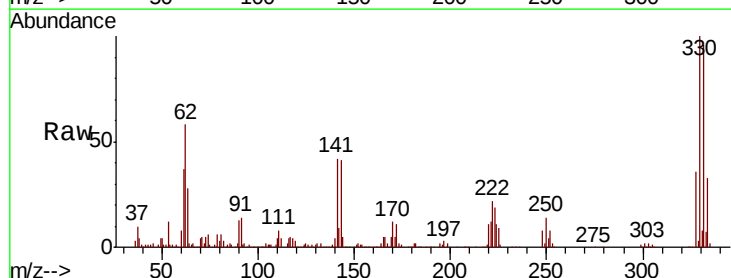
Delta R.T. -0.01 min

Lab File: BG043958.D

Acq: 7 Jan 2020 17:35

Tgt Ion:330 Resp: 423914

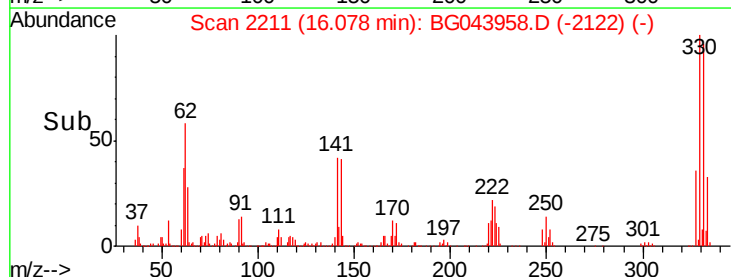
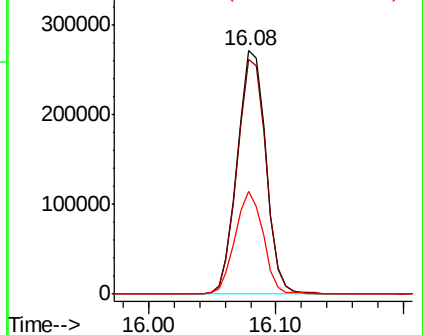
Ion	Ratio	Lower	Upper
330	100		
332	97.4	77.2	115.8
141	40.9	33.1	49.7

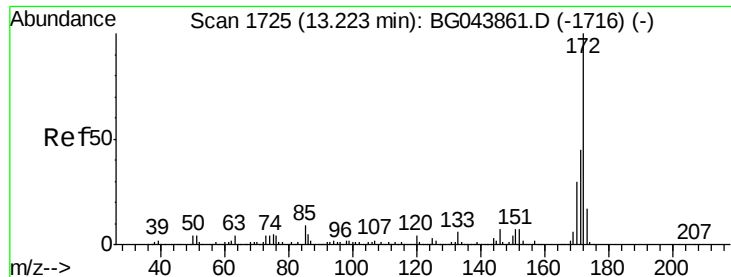


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

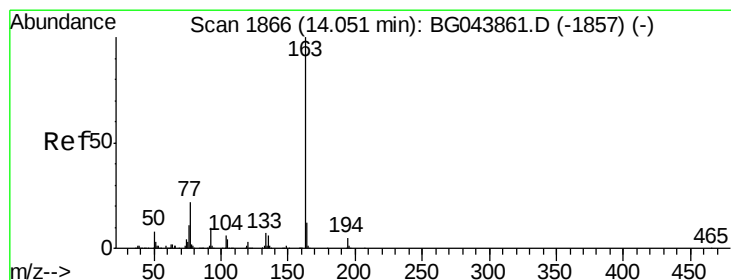
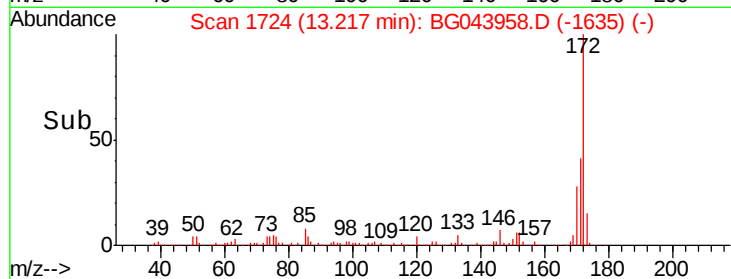
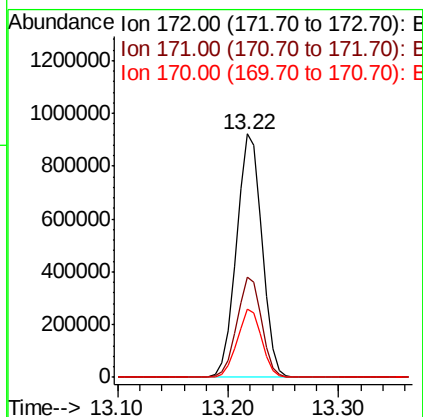
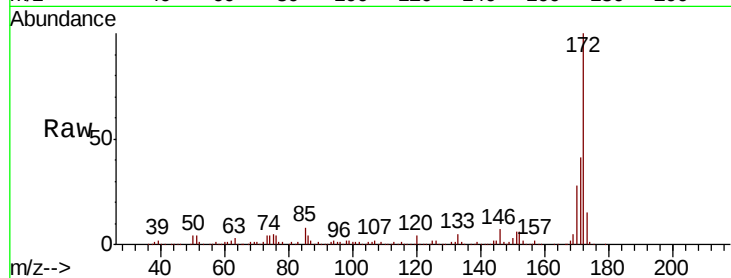




#45
2-Fluorobiphenyl
Concen: 64.073 ng
RT: 13.22 min Scan# 1724
Delta R.T. -0.01 min
Lab File: BG043958.D
Acq: 7 Jan 2020 17:35

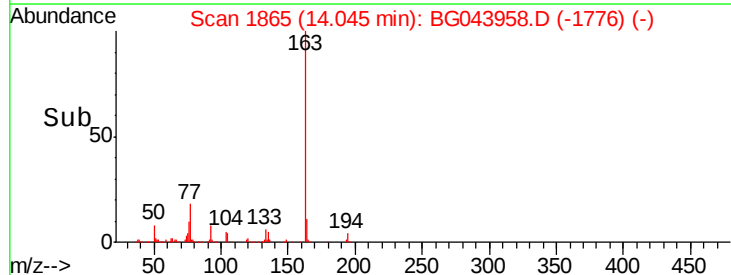
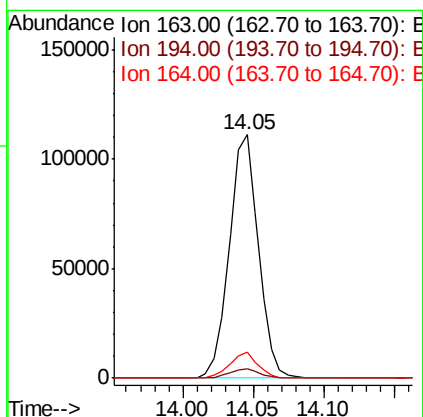
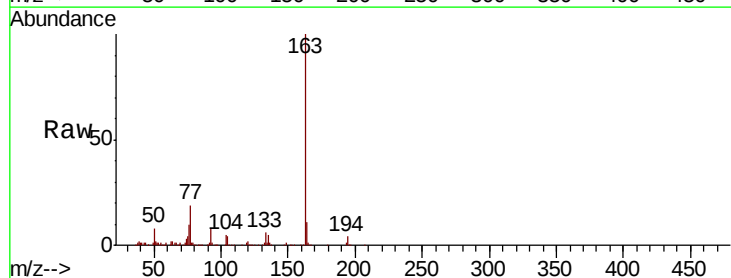
Instrument :
BNA_G
ClientSampleId :

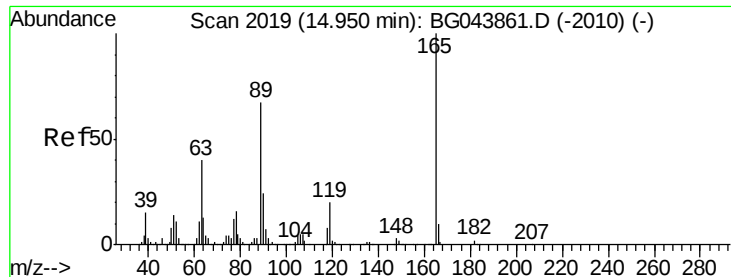
Tot Ion:172 Resp: 1497161
Ion Ratio Lower Upper
172 100
171 41.0 35.8 53.8
170 28.1 24.2 36.4



#50
Dimethylphthalate
Concen: 5.292 ng
RT: 14.05 min Scan# 1865
Delta R.T. -0.01 min
Lab File: BG043958.D
Acq: 7 Jan 2020 17:35

Tgt Ion:163 Resp: 159062
Ion Ratio Lower Upper
163 100
194 3.7 3.7 5.5#
164 10.9 9.3 13.9

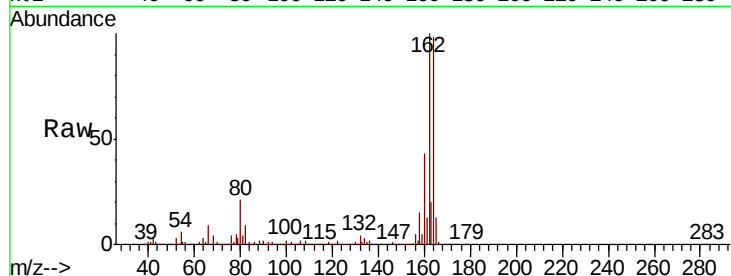




#57
2,4-Dinitrotoluene
Concen: 6.048 ng
RT: 14.59 min Scan# 1958
Delta R.T. -0.36 min
Lab File: BG043958.D
Acq: 7 Jan 2020 17:35

Instrument :
BNA_G
ClientSampled :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.4	31.9	47.9#
89	1.6	53.8	80.6#
182	0.0	2.0	3.0#



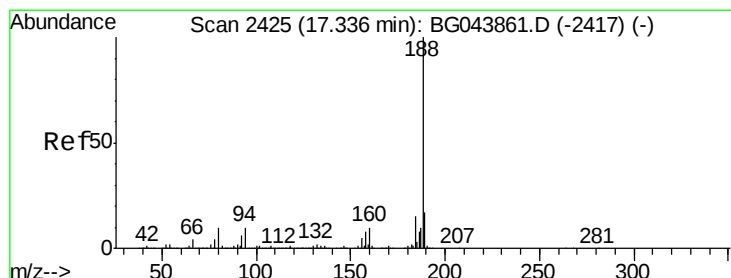
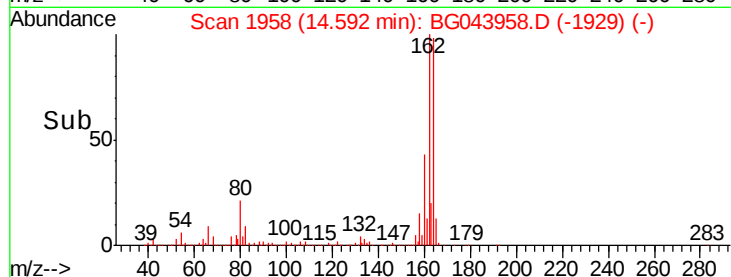
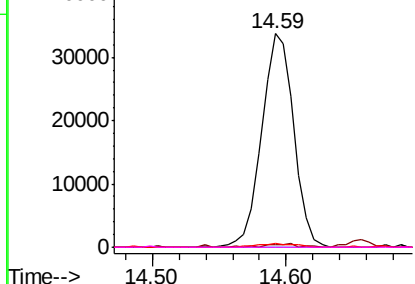
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

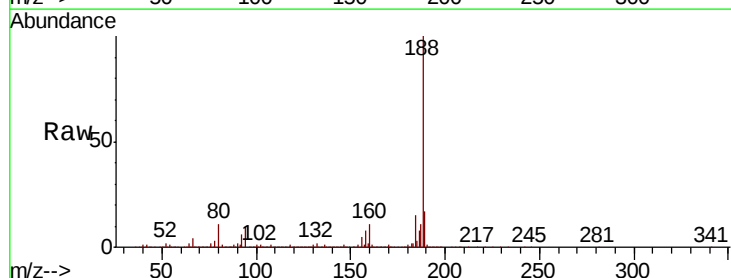
Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.34 min Scan# 2425
Delta R.T. -0.00 min
Lab File: BG043958.D
Acq: 7 Jan 2020 17:35

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.0	7.9	11.9
80	11.1	8.2	12.4

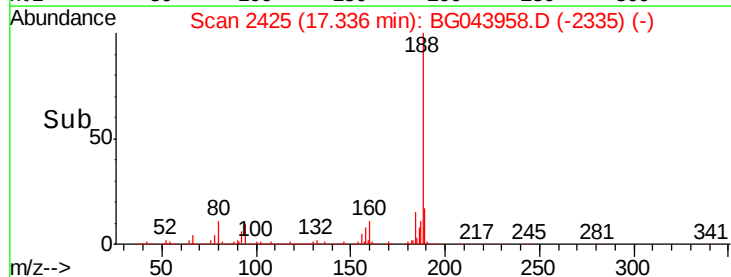
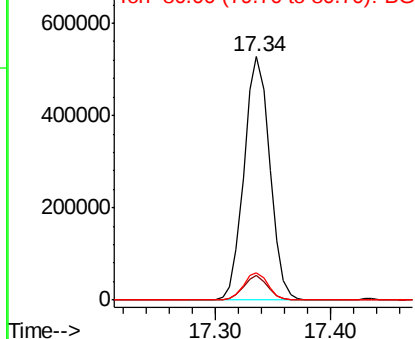


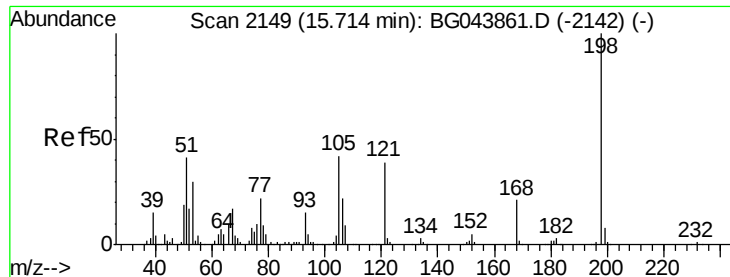
Abundance

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

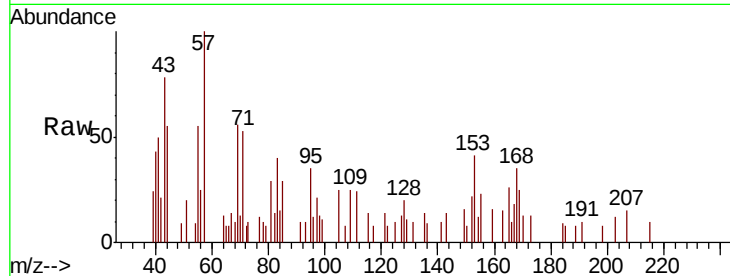




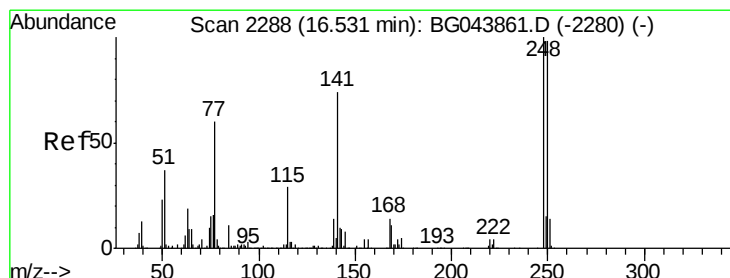
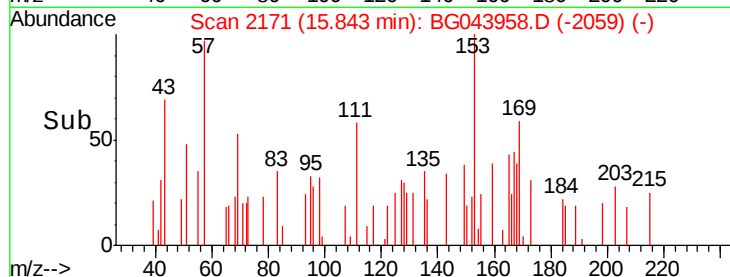
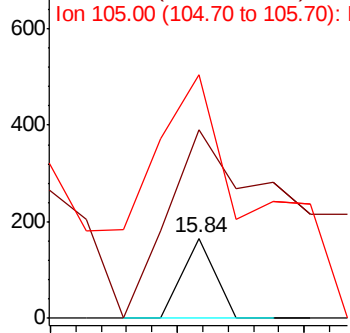
#65
 4,6-Dinitro-2-methylphenol
 Concen: 4.402 ng
 RT: 15.84 min Scan# 2171
 Delta R.T. 0.13 min
 Lab File: BG043958.D
 Acq: 7 Jan 2020 17:35

Instrument :
 BNA_G
 ClientSampled :

Tot Ion:198 Resp: 59
 Ion Ratio Lower Upper
 198 100
 51 234.9 22.5 62.5#
 105 303.6 22.3 62.3#

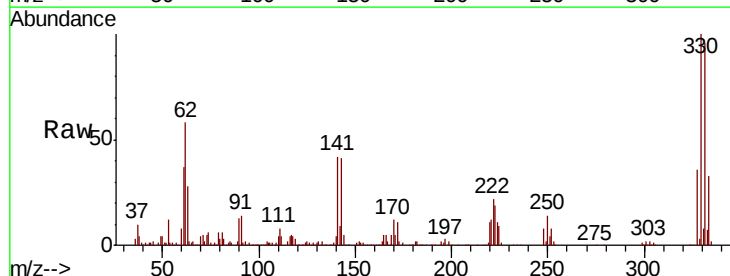


Abundance Ion 198.00 (197.70 to 198.70): E
 Ion 51.00 (50.70 to 51.70): BG
 Ion 105.00 (104.70 to 105.70): E

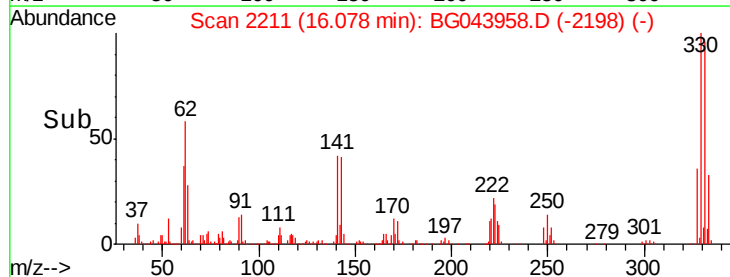
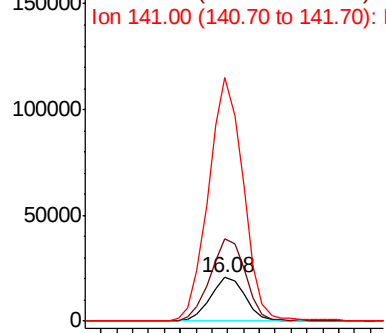


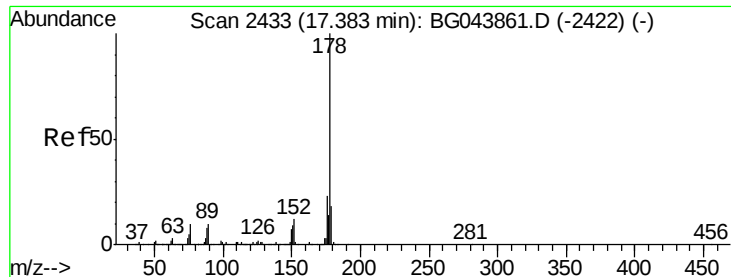
#67
 4-Bromophenyl-phenylether
 Concen: 3.445 ng
 RT: 16.08 min Scan# 2211
 Delta R.T. -0.45 min
 Lab File: BG043958.D
 Acq: 7 Jan 2020 17:35

Tgt Ion:248 Resp: 31730
 Ion Ratio Lower Upper
 248 100
 250 188.5 78.2 117.2#
 141 554.9 59.3 88.9#



Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E





#71

Phenanthrene

Concen: 11.629 ng

RT: 17.38 min Scan# 2432

Delta R.T. -0.01 min

Lab File: BG043958.D

Acq: 7 Jan 2020 17:35

Instrument :

BNA_G

ClientSampleId :

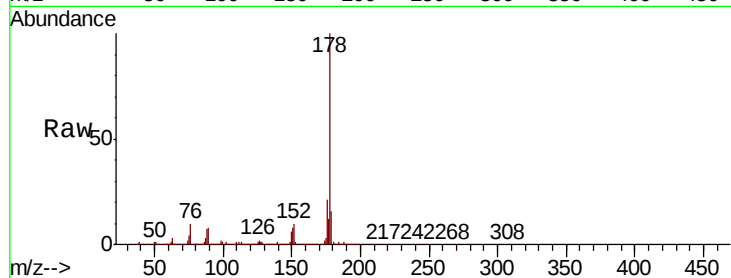
Tot Ion:178 Resp: 456812

Ion Ratio Lower Upper

178 100

176 21.3 18.6 28.0

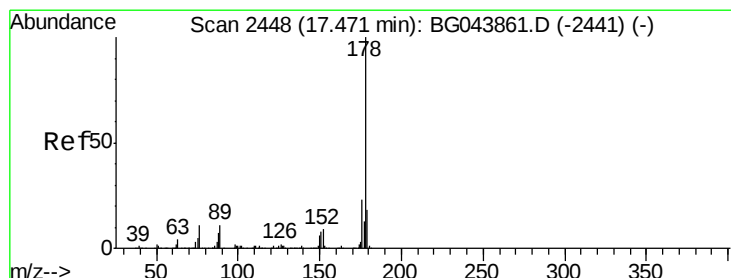
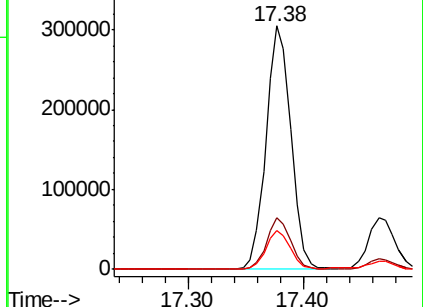
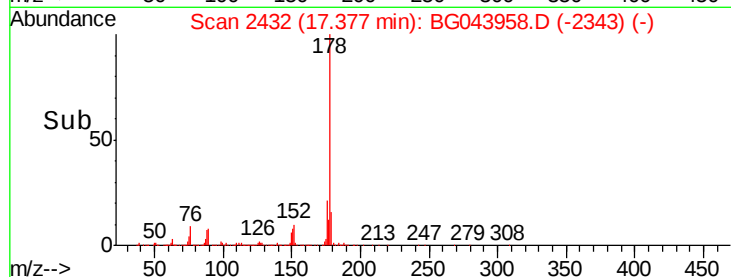
179 15.8 14.4 21.6



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

Anthracene

Concen: 2.580 ng

RT: 17.46 min Scan# 2447

Delta R.T. -0.01 min

Lab File: BG043958.D

Acq: 7 Jan 2020 17:35

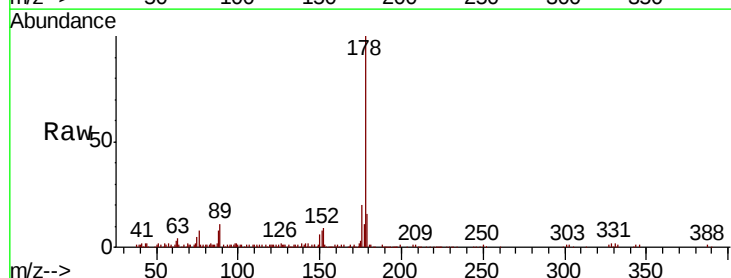
Tgt Ion:178 Resp: 100147

Ion Ratio Lower Upper

178 100

176 20.3 18.3 27.5

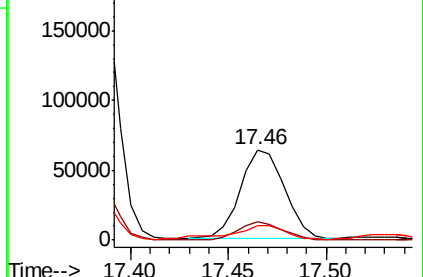
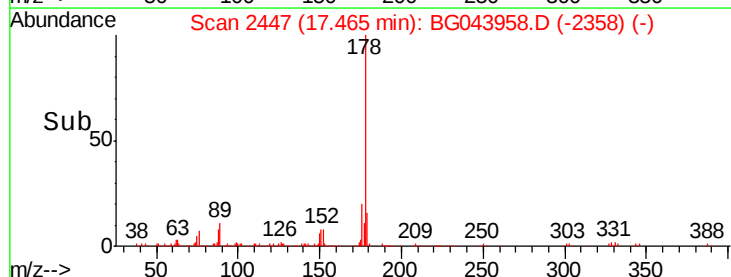
179 16.5 14.6 22.0

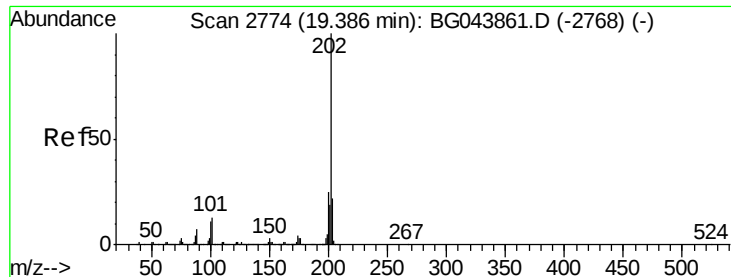


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

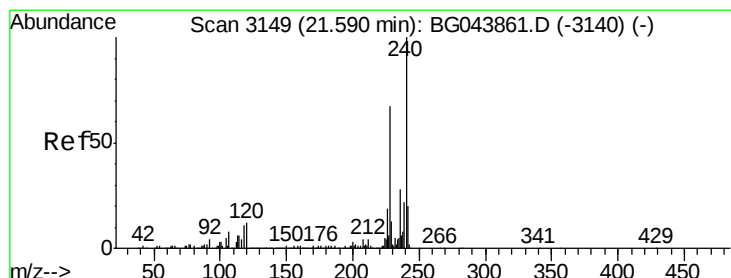
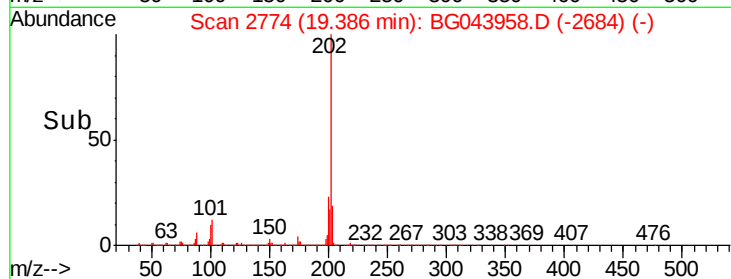
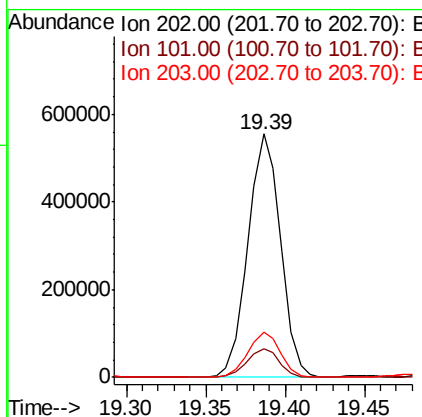
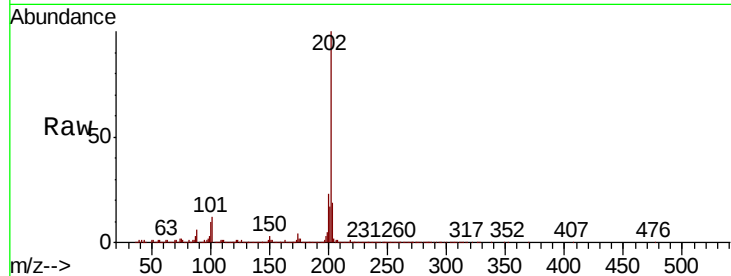




#75
 Fluoranthene
 Concen: 17.570 ng
 RT: 19.39 min Scan# 2774
 Delta R.T. -0.00 min
 Lab File: BG043958.D
 Acq: 7 Jan 2020 17:35

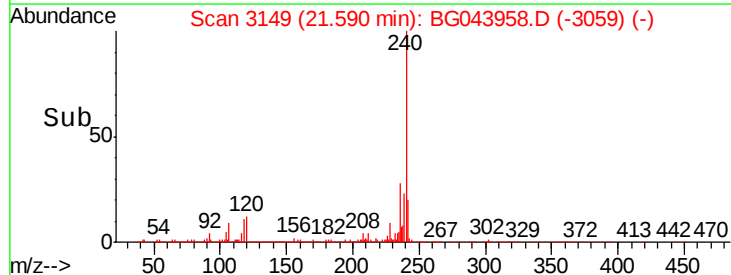
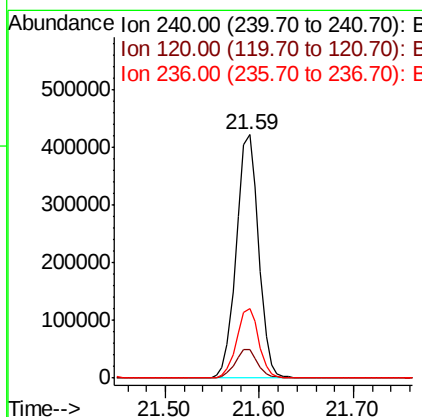
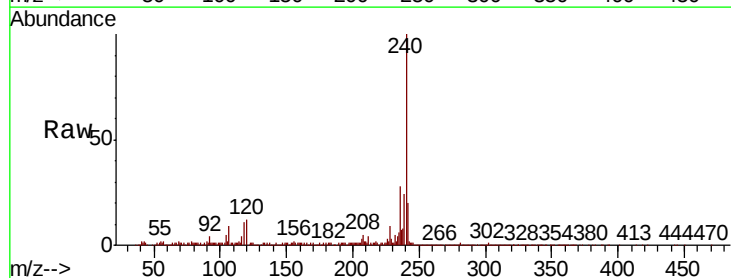
Instrument :
 BNA_G
 ClientSampleId :

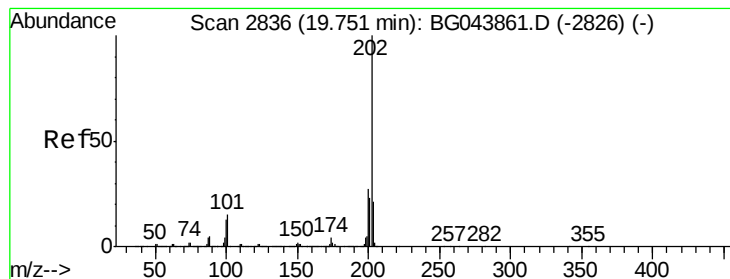
Tot Ion:	202	Resp:	789345
Ion Ratio	Lower	Upper	
202	100		
101	12.0	0.0	33.3
203	18.7	1.6	41.6



#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 21.59 min Scan# 3149
 Delta R.T. -0.00 min
 Lab File: BG043958.D
 Acq: 7 Jan 2020 17:35

Tgt Ion:	240	Resp:	692272
Ion Ratio	Lower	Upper	
240	100		
120	11.7	9.6	14.4
236	28.3	22.2	33.2





#78

Pvrene

Concen: 16.018 ng

RT: 19.74 min Scan# 2835

Delta R.T. -0.01 min

Lab File: BG043958.D

Acq: 7 Jan 2020 17:35

Instrument :

BNA_G

ClientSampleId :

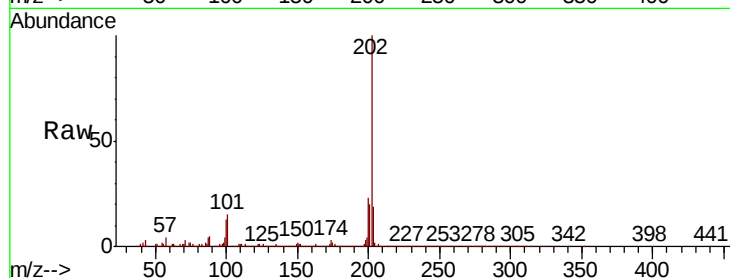
Tot Ion:202 Resp: 723798

Ion Ratio Lower Upper

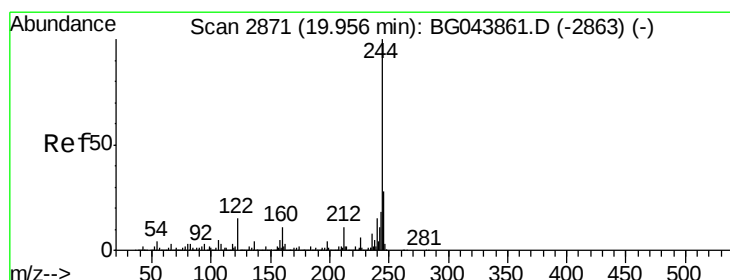
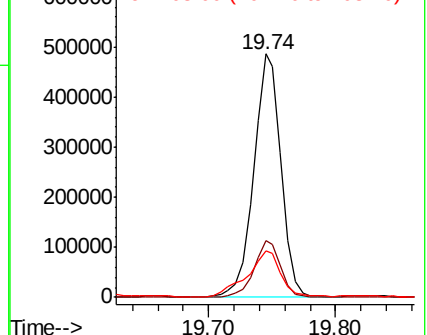
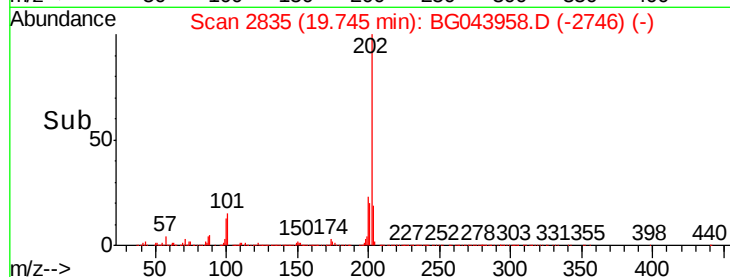
202 100

200 23.3 21.7 32.5

203 19.4 17.0 25.6



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 53.837 ng

RT: 19.95 min Scan# 2870

Delta R.T. -0.01 min

Lab File: BG043958.D

Acq: 7 Jan 2020 17:35

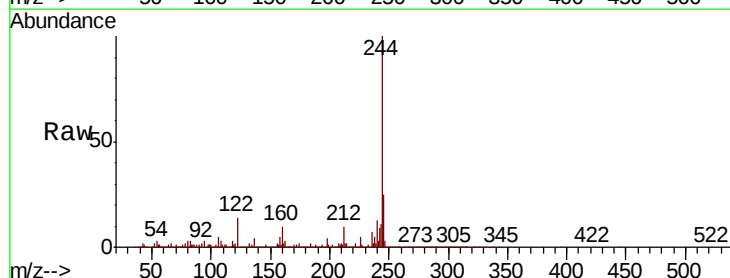
Tgt Ion:244 Resp: 1728370

Ion Ratio Lower Upper

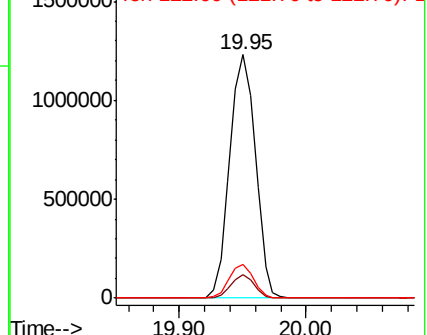
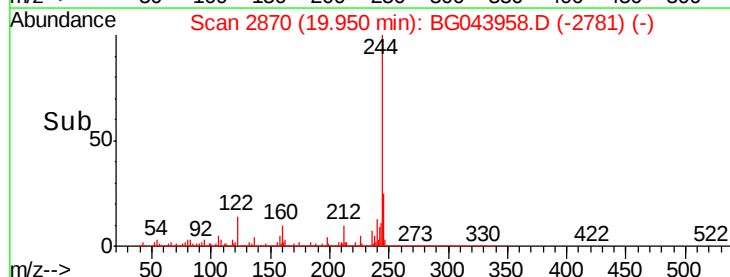
244 100

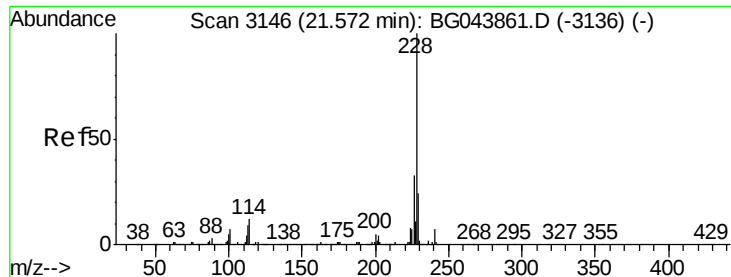
212 9.8 8.6 13.0

122 13.9 11.9 17.9



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





#81

Benzo(a)anthracene

Concen: 8.364 ng

RT: 21.57 min Scan# 3145

Delta R.T. -0.01 min

Lab File: BG043958.D

Acq: 7 Jan 2020 17:35

Instrument :

BNA_G

ClientSampled :

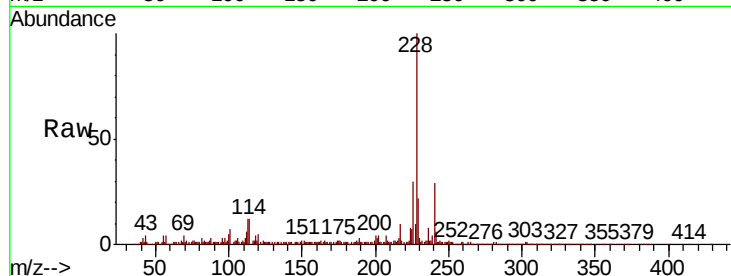
Tot Ion:228 Resp: 359028

Ion Ratio Lower Upper

228 100

226 30.3 26.2 39.4

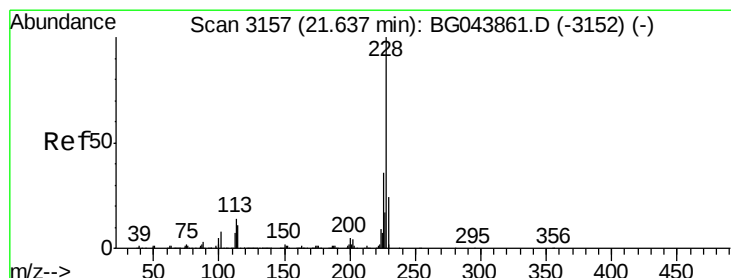
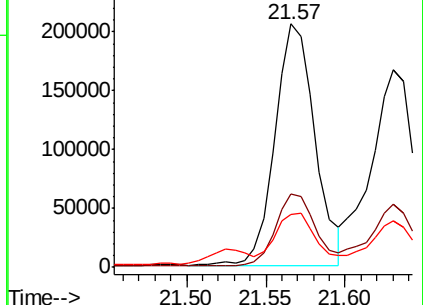
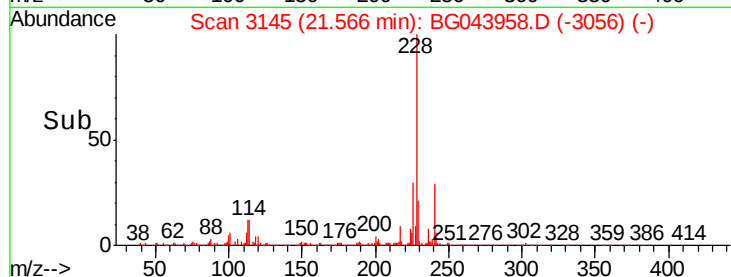
229 21.8 18.9 28.3



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



#83

Chrysene

Concen: 7.671 ng

RT: 21.63 min Scan# 3156

Delta R.T. -0.01 min

Lab File: BG043958.D

Acq: 7 Jan 2020 17:35

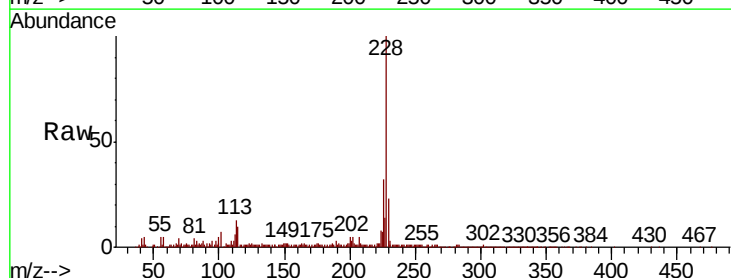
Tgt Ion:228 Resp: 312870

Ion Ratio Lower Upper

228 100

226 32.2 28.8 43.2

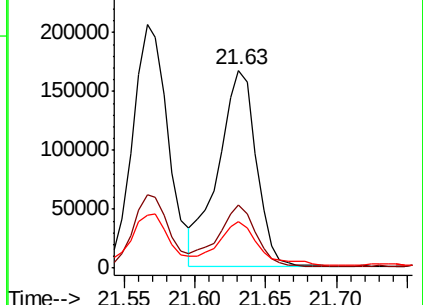
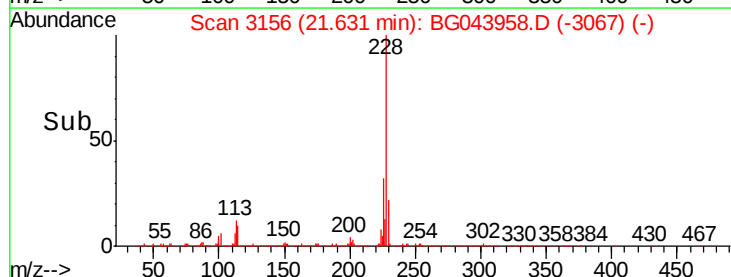
229 23.4 19.0 28.6

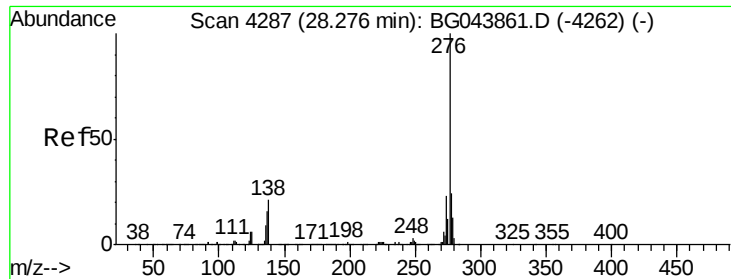


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#86

Indeno(1,2,3-cd)pyrene

Concen: 3.110 ng

RT: 28.26 min Scan# 4285

Delta R.T. -0.01 min

Lab File: BG043958.D

Acq: 7 Jan 2020 17:35

Instrument :

BNA_G

ClientSampleId :

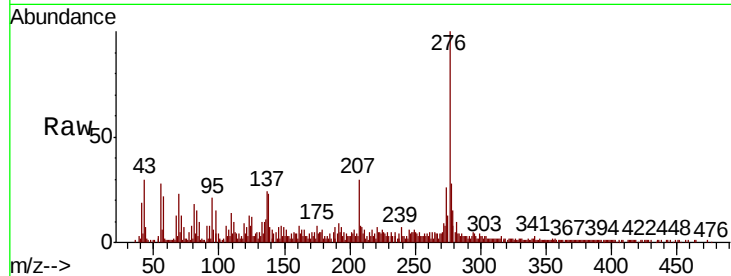
Tot Ion:276 Resp: 172402

Ion Ratio Lower Upper

276 100

138 21.6 21.0 31.4

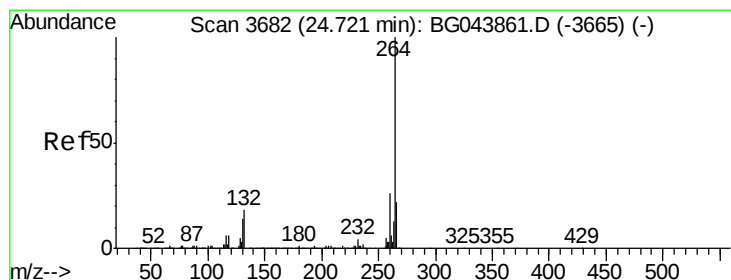
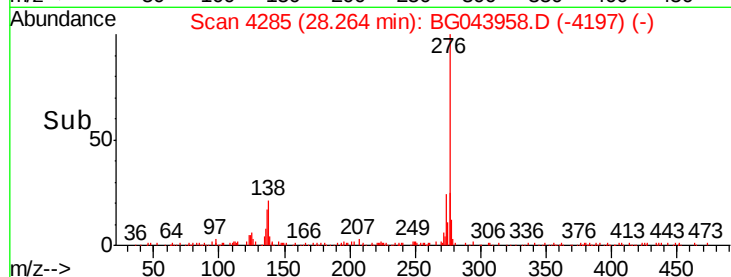
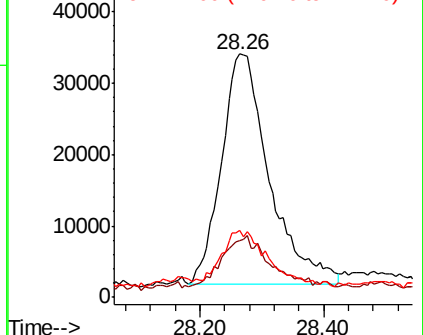
277 23.5 21.1 31.7



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: 24.72 min Scan# 3682

Delta R.T. -0.00 min

Lab File: BG043958.D

Acq: 7 Jan 2020 17:35

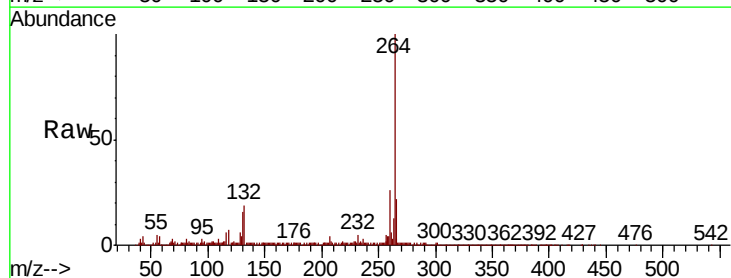
Tgt Ion:264 Resp: 787957

Ion Ratio Lower Upper

264 100

260 25.9 20.4 30.6

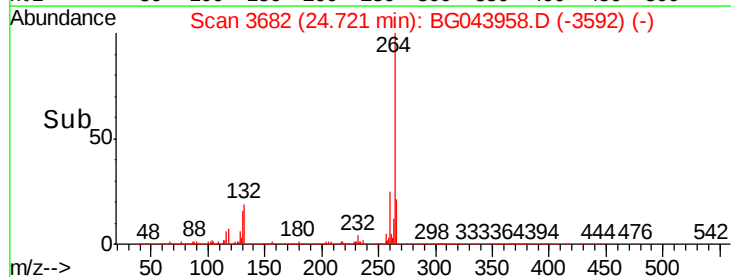
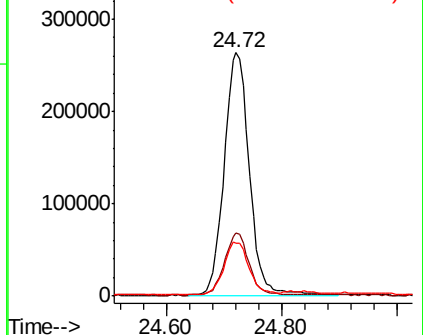
265 21.7 17.4 26.2

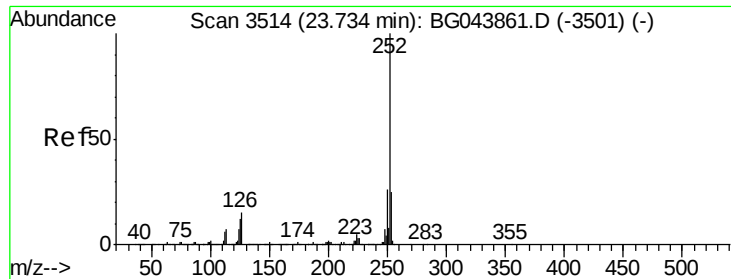


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

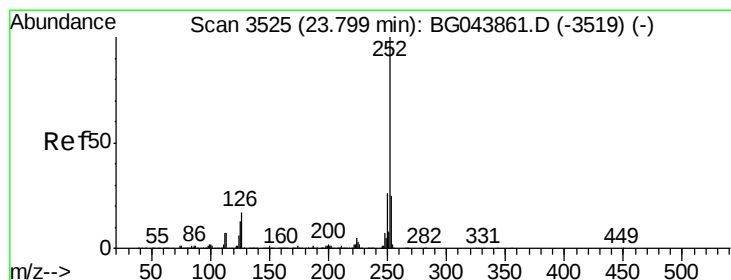
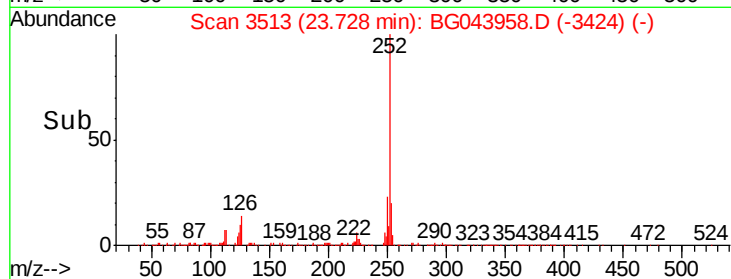
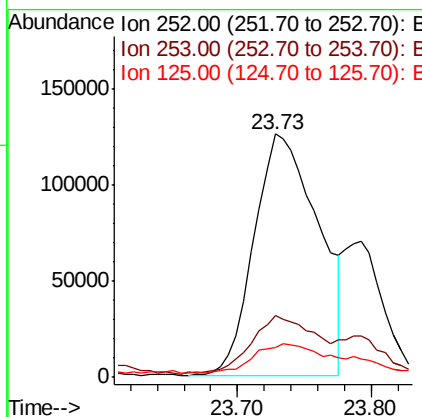
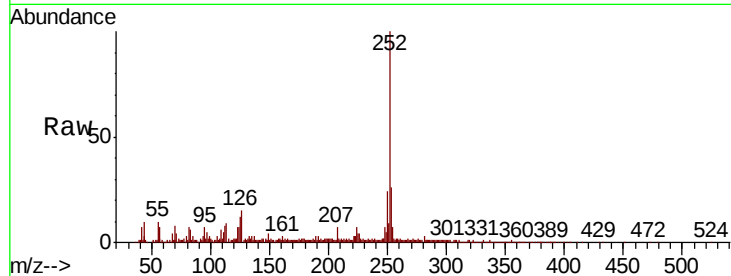




#88
Benzo(b)fluoranthene
Concen: 8.998 ng
RT: 23.73 min Scan# 3513
Delta R.T. -0.01 min
Lab File: BG043958.D
Acq: 7 Jan 2020 17:35

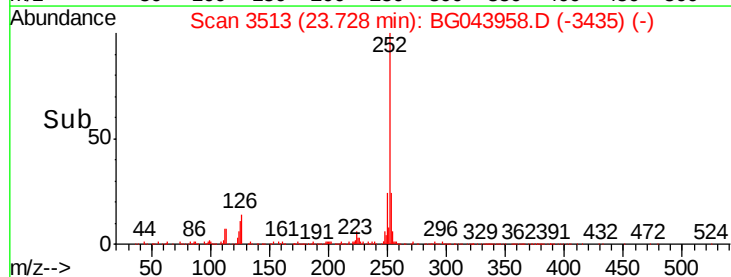
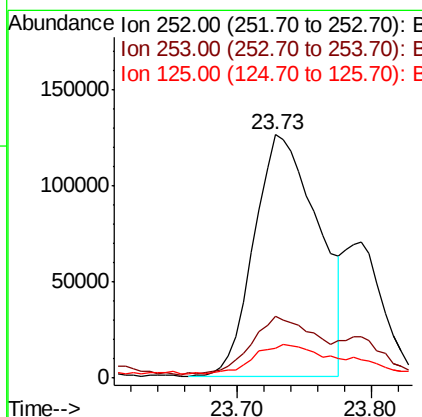
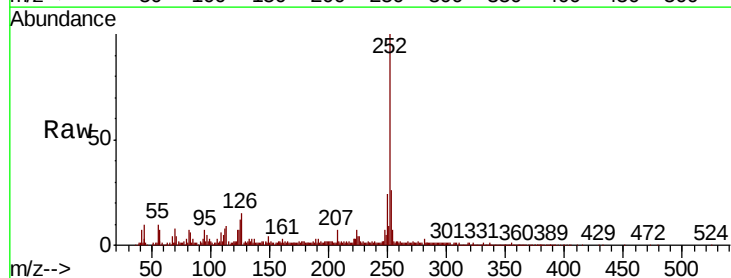
Instrument :
BNA_G
ClientSampleId :

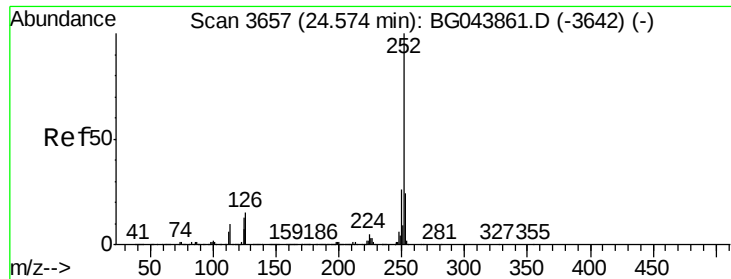
Tot Ion	Ratio	Lower	Upper
252	100		
253	25.6	19.7	29.5
125	12.4	9.4	14.2



#89
Benzo(k)fluoranthene
Concen: 9.463 ng
RT: 23.73 min Scan# 3513
Delta R.T. -0.07 min
Lab File: BG043958.D
Acq: 7 Jan 2020 17:35

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.6	19.4	29.2
125	12.4	9.9	14.9





#90

Benzo(a)pyrene

Concen: 7.317 ng

RT: 24.57 min Scan# 3656

Delta R.T. -0.01 min

Lab File: BG043958.D

Acq: 7 Jan 2020 17:35

Instrument :

BNA_G

ClientSampleId :

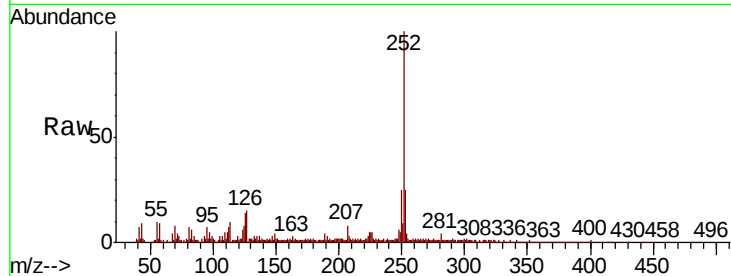
Tot Ion:252 Resp: 321693

Ion Ratio Lower Upper

252 100

253 24.8 19.3 28.9

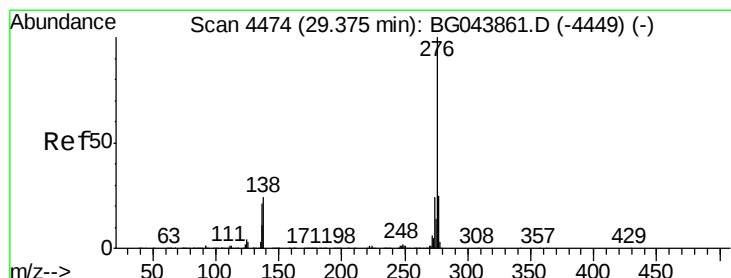
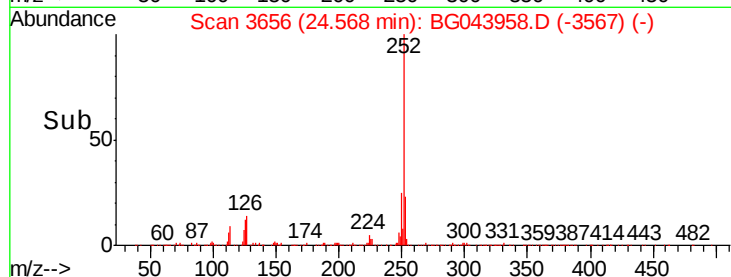
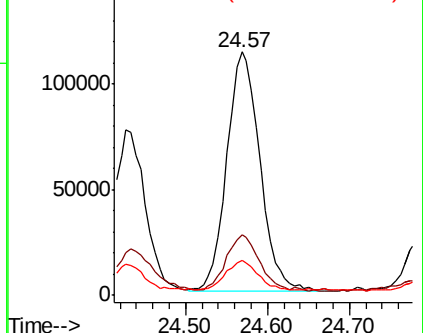
125 14.4 10.4 15.6



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#92

Benzo(g,h,i)perylene

Concen: 3.630 ng

RT: 29.37 min Scan# 4473

Delta R.T. -0.01 min

Lab File: BG043958.D

Acq: 7 Jan 2020 17:35

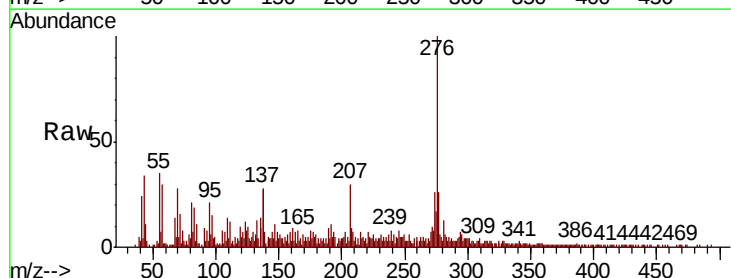
Tgt Ion:276 Resp: 159229

Ion Ratio Lower Upper

276 100

277 26.0 20.2 30.4

138 26.7 19.0 28.6



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

