

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG021320\
 Data File : BG044428.D
 Acq On : 13 Feb 2020 21:56
 Operator : CG/JU
 Sample : L1509-01
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Feb 14 02:57:34 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG013020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 10 16:11:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.90	152	91644	20.00	ng	0.00
21) Naphthalene-d8	10.70	136	403864	20.00	ng	0.00
39) Acenaphthene-d10	14.54	164	250921	20.00	ng	0.00
64) Phenanthrene-d10	17.28	188	506734	20.00	ng	0.00
76) Chrysene-d12	21.53	240	472516	20.00	ng	0.00
87) Perylene-d12	24.62	264	506876	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.48	112	248812	47.92	ng	0.00
7) Phenol-d6	7.07	99	343788	49.30	ng	0.00
23) Nitrobenzene-d5	9.06	82	210125	29.37	ng	0.00
42) 2,4,6-Tribromophenol	16.03	330	121846	41.36	ng	0.00
45) 2-Fluorobiphenyl	13.16	172	431615	28.80	ng	0.00
79) Terphenyl-d14	19.90	244	544817	23.72	ng	0.00

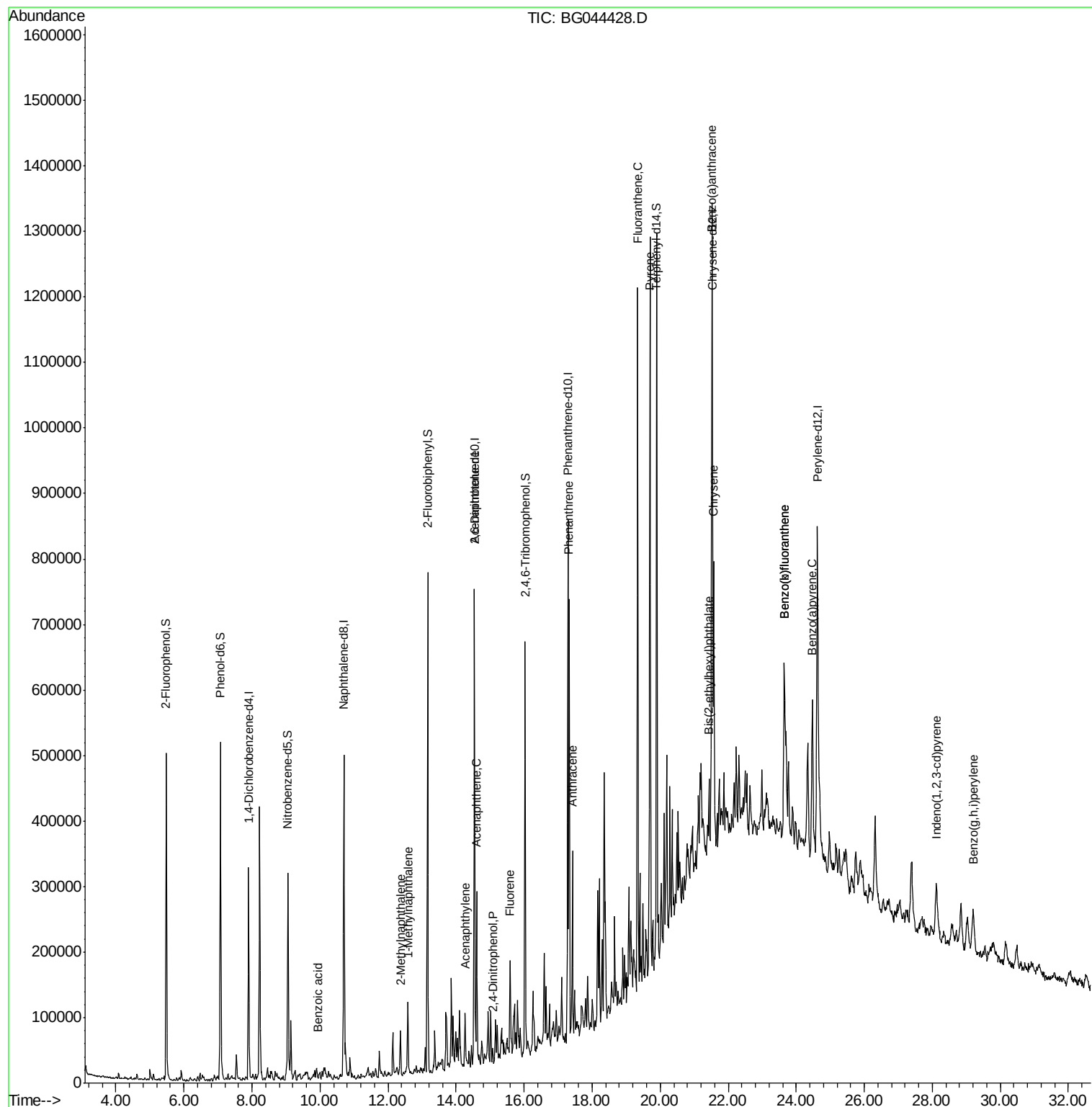
Target Compounds				Qvalue		
32) Benzoic acid	9.95	122	60	14.183	ng	# 2
37) 2-Methylnaphthalene	12.37	142	31067	2.135	ng	99
38) 1-Methylnaphthalene	12.58	142	52196	3.806	ng	97
49) Acenaphthylene	14.26	152	53533	2.534	ng	# 95
51) 2,6-Dinitrotoluene	14.54	165	36704	9.127	ng	# 31
52) Acenaphthene	14.60	154	95529	6.977	ng	96
54) 2,4-Dinitrophenol	15.10	184	59	7.647	ng	# 22
58) Fluorene	15.59	166	65961	4.040	ng	98
71) Phenanthrene	17.32	178	434967	17.726	ng	97
72) Anthracene	17.42	178	189394	7.807	ng	94
75) Fluoranthene	19.34	202	633766	22.327	ng	99
78) Pyrene	19.70	202	694290	22.880	ng	97
81) Benzo(a)anthracene	21.51	228	317318	10.896	ng	98
83) Chrysene	21.57	228	295914	10.513	ng	97
84) Bis(2-ethylhexyl)phthalate	21.44	149	43025	2.260	ng	97
86) Indeno(1,2,3-cd)pyrene	28.12	276	133739	3.642	ng	96
88) Benzo(b)fluoranthene	23.65	252	293766	10.058	ng	# 96
89) Benzo(k)fluoranthene	23.65	252	293766	10.319	ng	# 96
90) Benzo(a)pyrene	24.48	252	259359	9.392	ng	# 96
92) Benzo(a,h,i)perylene	29.20	276	137804	5.037	ng	96

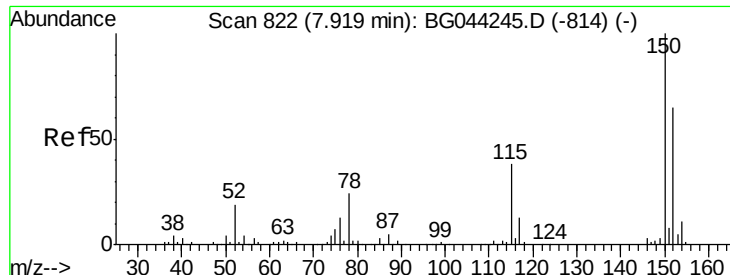
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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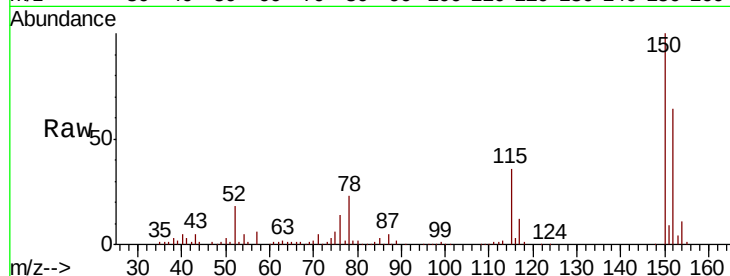


#1

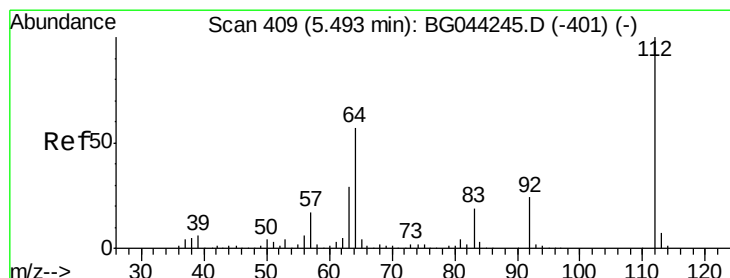
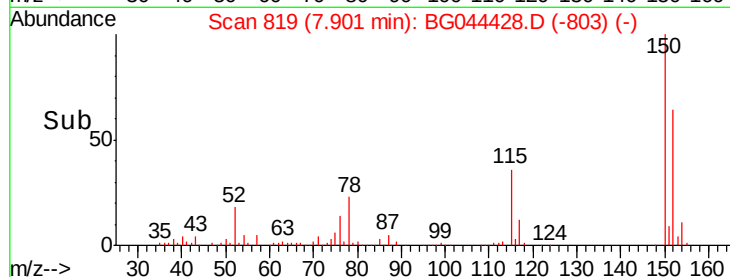
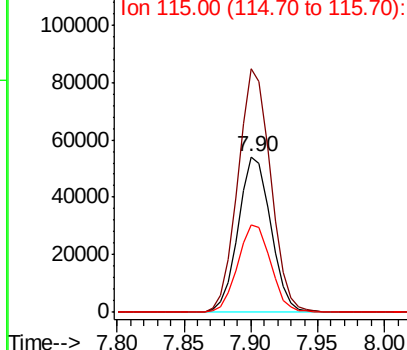
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.90 min Scan# 819
Delta R.T. -0.00 min
Lab File: BG044428.D
Acq: 13 Feb 2020 21:56

Instrument :
BNA_G
ClientSampleId :

Tot Ion:152 Resp: 91644
Ion Ratio Lower Upper
152 100
150 156.8 122.6 183.8
115 56.1 46.0 69.0



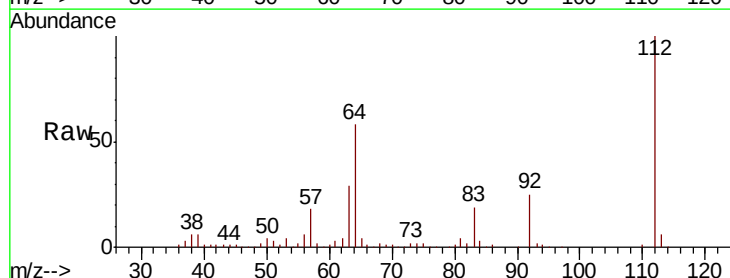
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



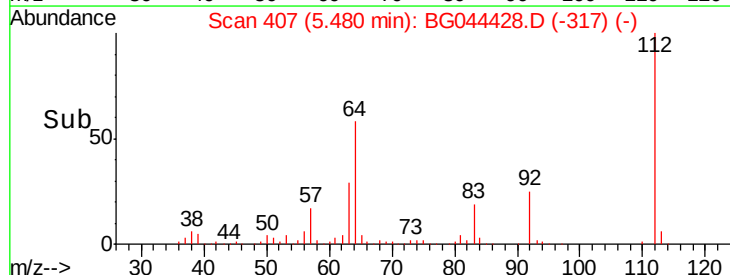
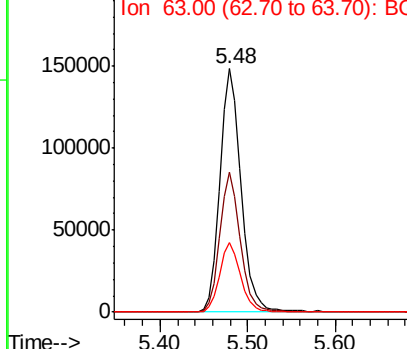
#5

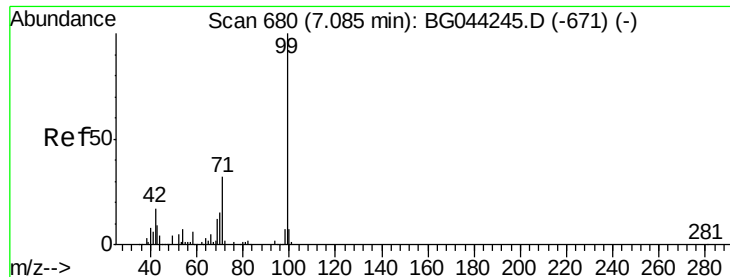
2-Fluorophenol
Concen: 47.915 ng
RT: 5.48 min Scan# 407
Delta R.T. 0.00 min
Lab File: BG044428.D
Acq: 13 Feb 2020 21:56

Tgt Ion:112 Resp: 248812
Ion Ratio Lower Upper
112 100
64 57.6 45.4 68.2
63 28.7 22.9 34.3



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: 49.302 ng

RT: 7.07 min Scan# 678

Delta R.T. -0.00 min

Lab File: BG044428.D

Acq: 13 Feb 2020 21:56

Instrument :

BNA_G

ClientSampled :

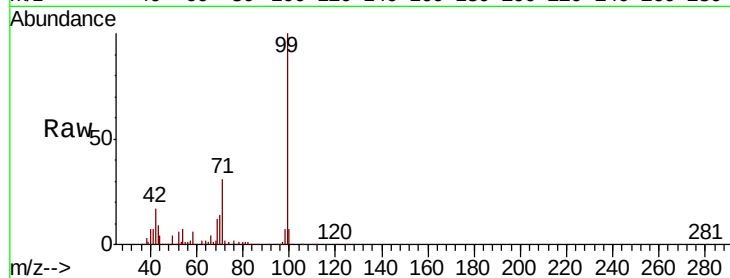
Tot Ion: 99 Resp: 343788

Ion Ratio Lower Upper

99 100

42 16.9 13.8 20.6

71 31.0 25.5 38.3

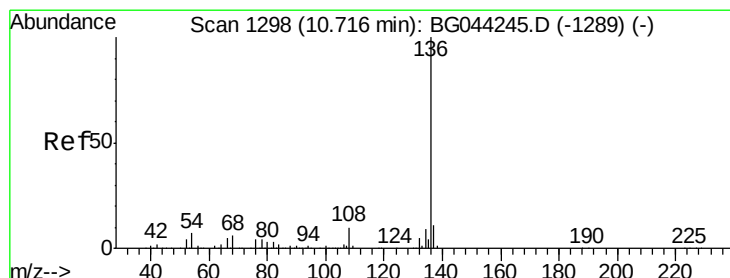
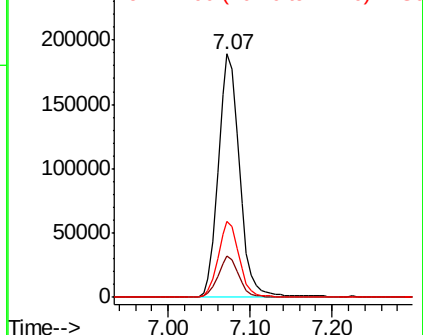
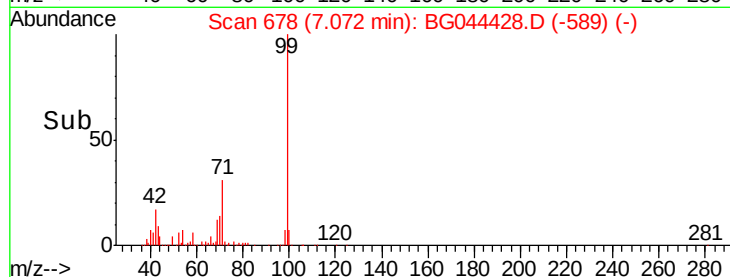


Abundance

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: 10.70 min Scan# 1296

Delta R.T. 0.00 min

Lab File: BG044428.D

Acq: 13 Feb 2020 21:56

Tgt Ion: 136 Resp: 403864

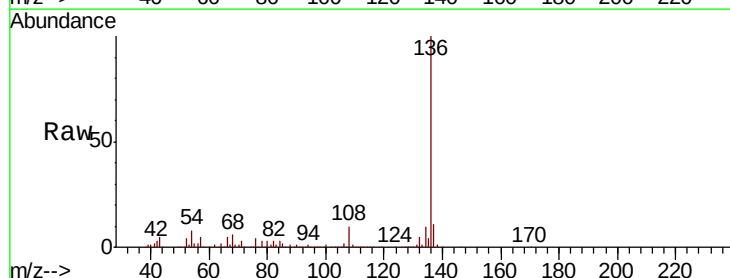
Ion Ratio Lower Upper

136 100

137 11.1 8.8 13.2

54 7.9 5.8 8.8

68 5.8 4.6 6.8



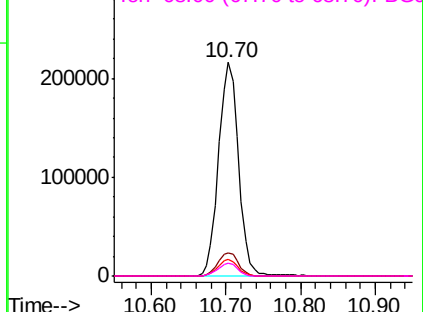
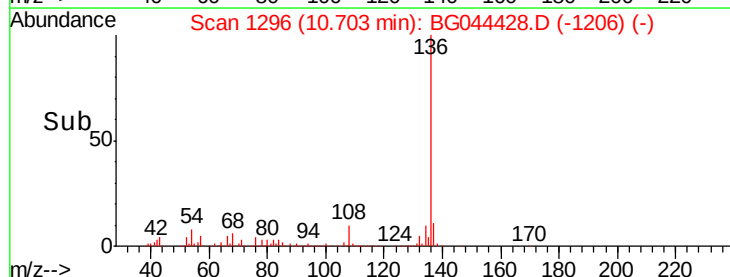
Abundance

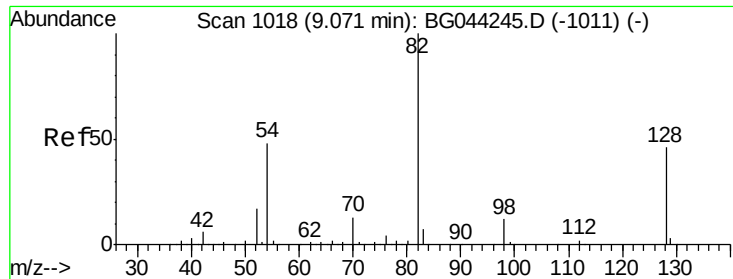
Ion 136.00 (135.70 to 136.70): BGC

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

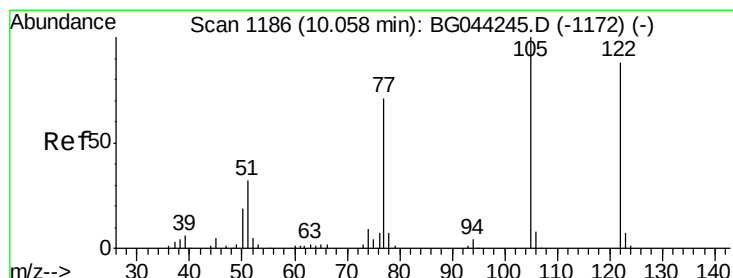
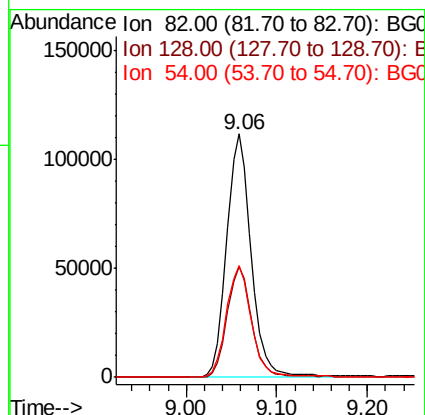
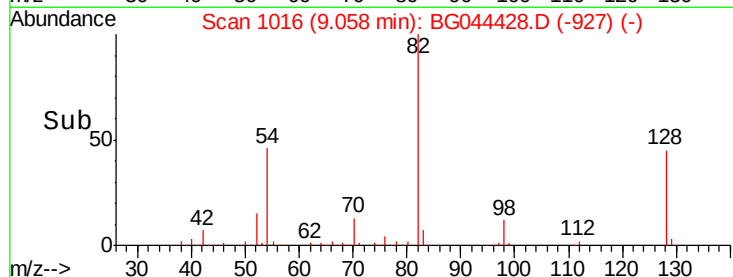
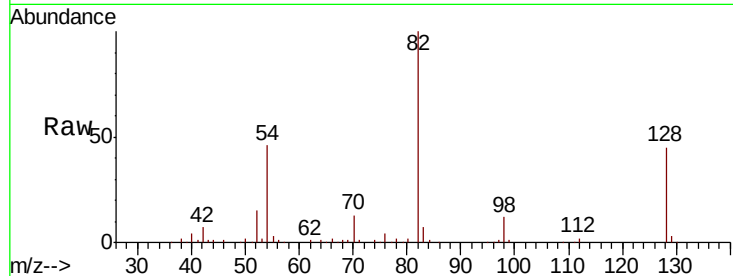




#23
Nitrobenzene-d5
Concen: 29.373 ng
RT: 9.06 min Scan# 1016
Delta R.T. -0.00 min
Lab File: BG044428.D
Acq: 13 Feb 2020 21:56

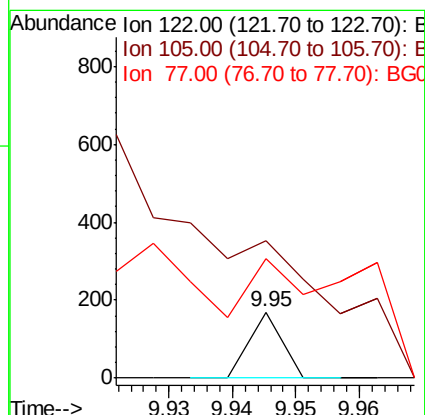
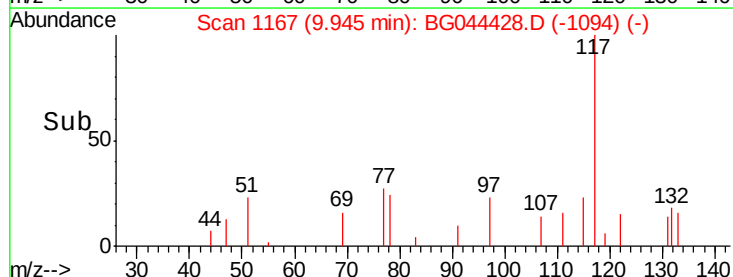
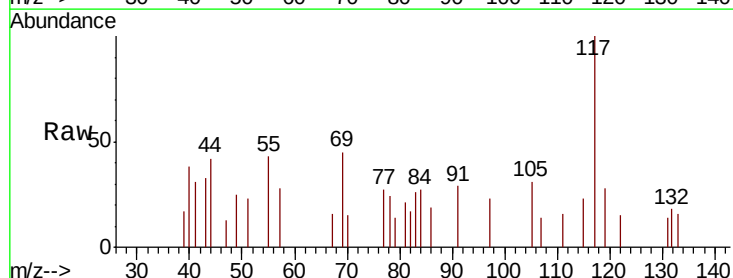
Instrument :
BNA_G
ClientSampled :

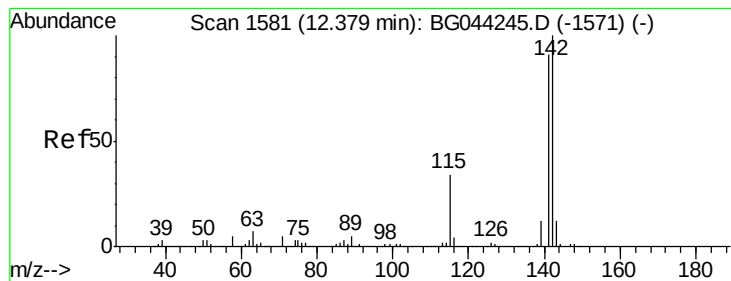
Tot Ion	82	Resp	210125
Ion Ratio	100	Lower	Upper
128	45.2	36.5	54.7
54	45.8	38.6	58.0



#32
Benzoic acid
Concen: 14.183 ng
RT: 9.95 min Scan# 1167
Delta R.T. -0.10 min
Lab File: BG044428.D
Acq: 13 Feb 2020 21:56

Tgt Ion	122	Resp	60
Ion Ratio	100	Lower	Upper
105	208.2	93.5	133.5#
77	179.4	61.0	101.0#





#37

2-Methylnaphthalene

Concen: 2.135 ng

RT: 12.37 min Scan# 1579

Delta R.T. 0.00 min

Lab File: BG044428.D

Acq: 13 Feb 2020 21:56

Instrument :

BNA_G

ClientSampleId :

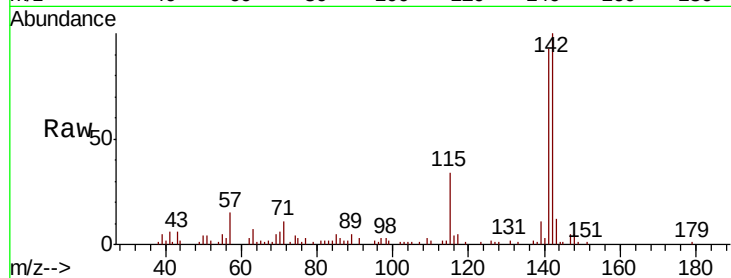
Tot Ion:142 Resp: 31067

Ion Ratio Lower Upper

142 100

141 92.9 73.2 109.8

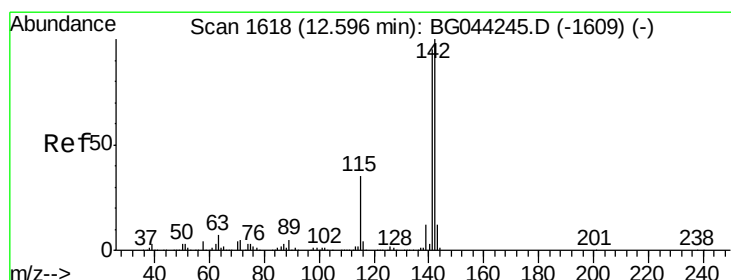
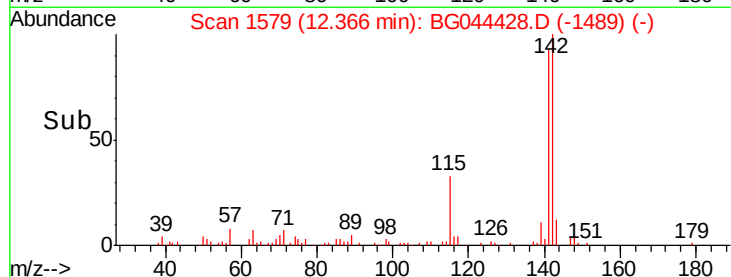
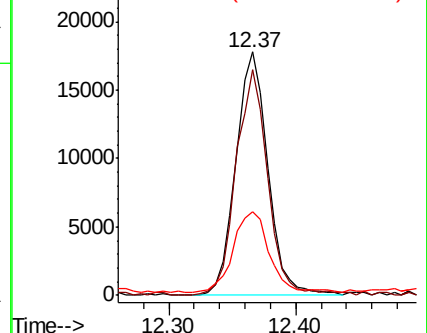
115 34.1 27.1 40.7



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

1-Methylnaphthalene

Concen: 3.806 ng

RT: 12.58 min Scan# 1616

Delta R.T. 0.00 min

Lab File: BG044428.D

Acq: 13 Feb 2020 21:56

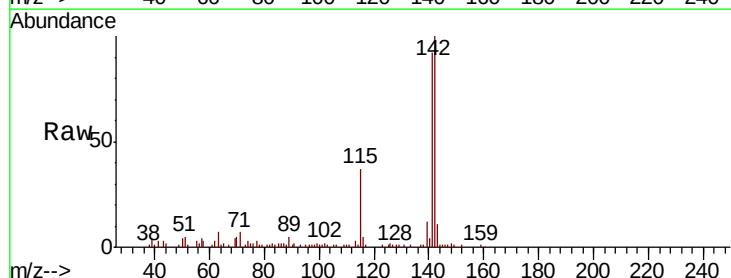
Tgt Ion:142 Resp: 52196

Ion Ratio Lower Upper

142 100

141 91.8 75.8 113.6

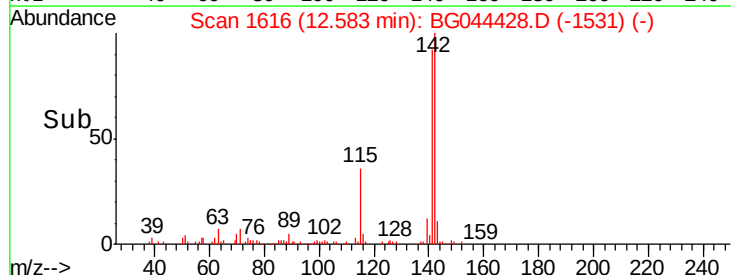
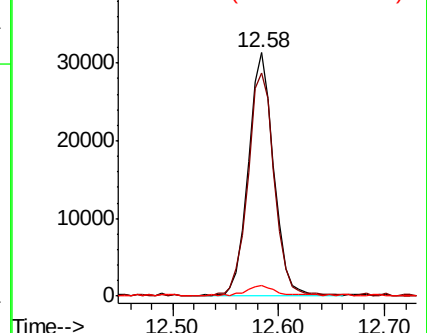
116 4.5 3.1 4.7

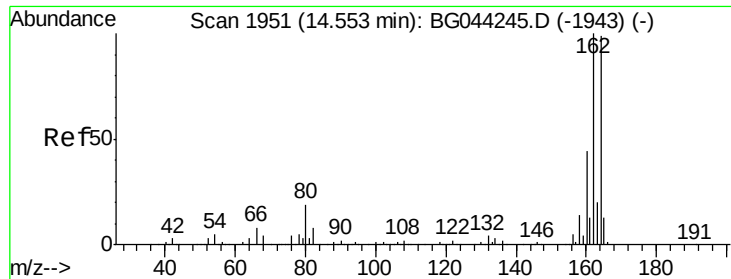


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.54 min Scan# 1949

Delta R.T. -0.00 min

Lab File: BG044428.D

Acq: 13 Feb 2020 21:56

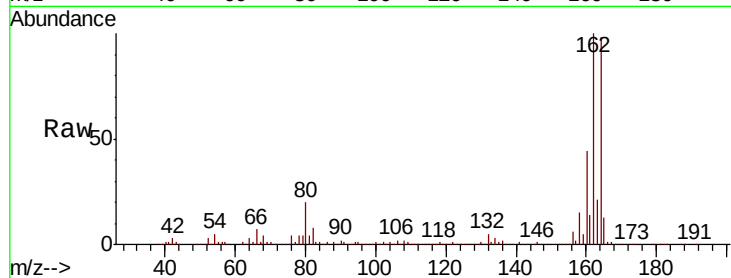
Instrument :

BNA_G

ClientSampleId :

Tot Ion:164 Resp: 250921

Ion	Ratio	Lower	Upper
164	100		
162	102.3	80.7	121.1
160	45.1	35.3	52.9



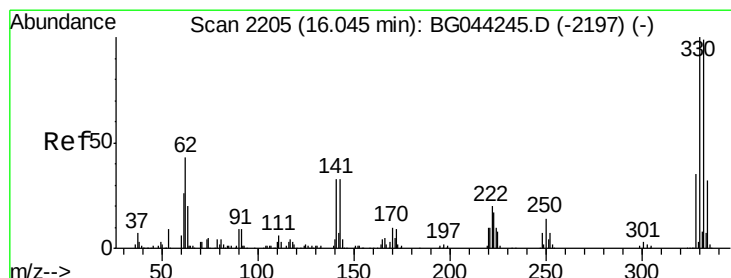
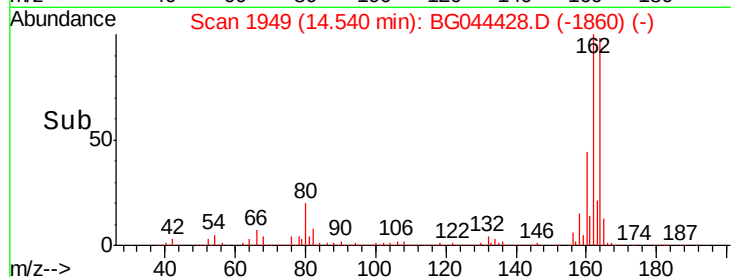
Abundance

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

Time-->



#42

2,4,6-Tribromophenol

Concen: 41.364 ng

RT: 16.03 min Scan# 2203

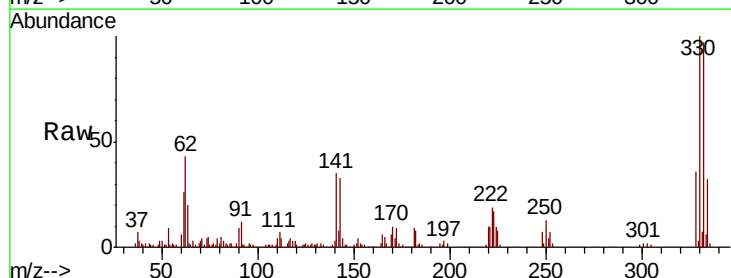
Delta R.T. 0.00 min

Lab File: BG044428.D

Acq: 13 Feb 2020 21:56

Tgt Ion:330 Resp: 121846

Ion	Ratio	Lower	Upper
330	100		
332	95.7	77.2	115.8
141	35.8	28.3	42.5



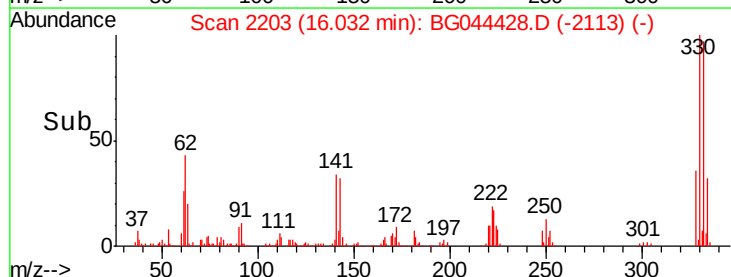
Abundance

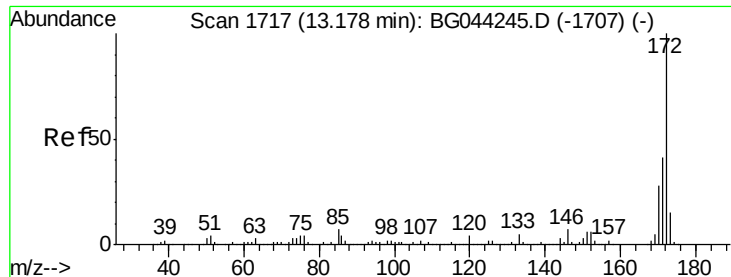
Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

Time-->

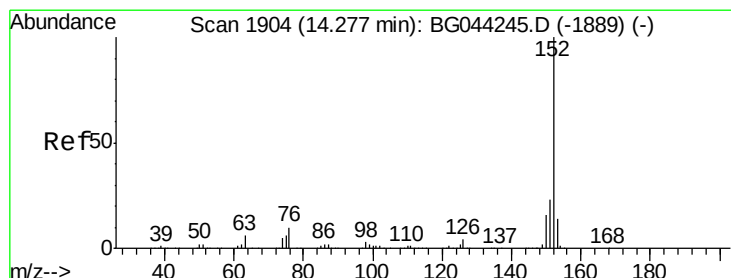
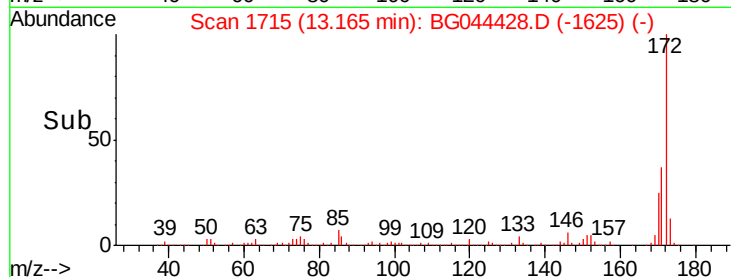
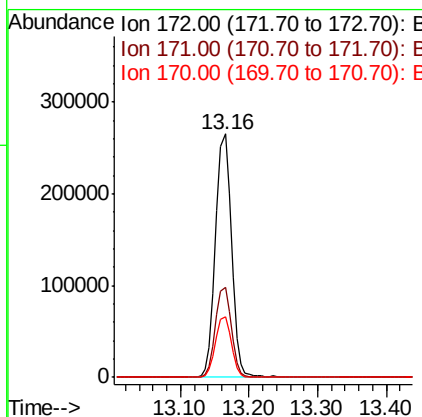
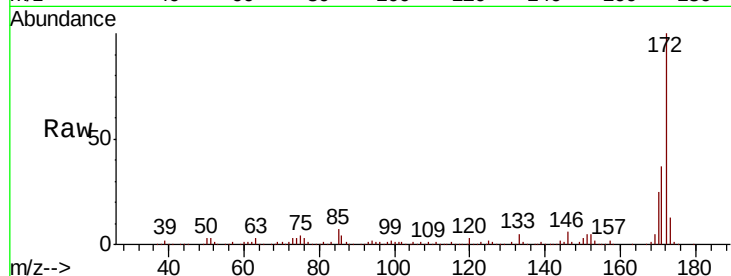




#45
2-Fluorobiphenyl
Concen: 28.804 ng
RT: 13.16 min Scan# 1715
Delta R.T. 0.00 min
Lab File: BG044428.D
Acq: 13 Feb 2020 21:56

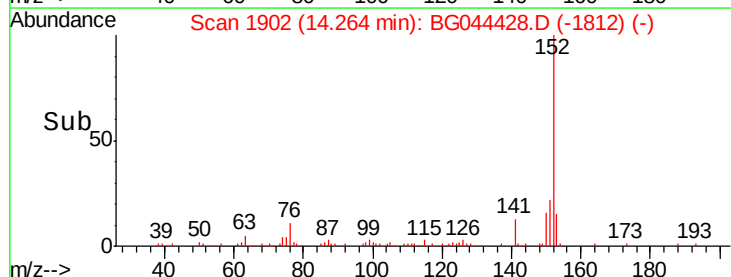
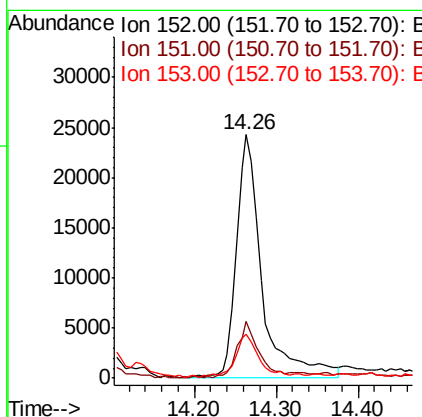
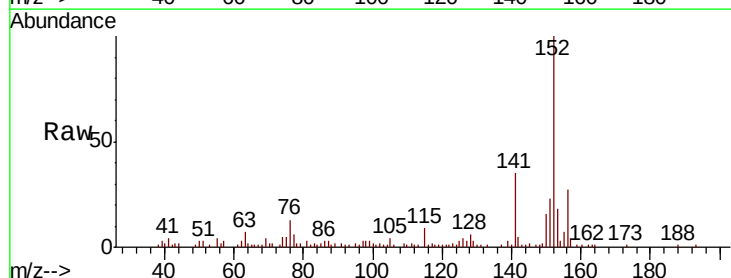
Instrument :
BNA_G
ClientSampleId :

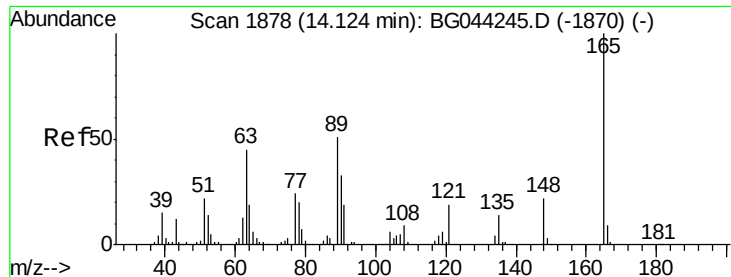
Tot Ion	Ratio	Lower	Upper
172	100		
171	37.2	32.9	49.3
170	24.9	22.0	33.0



#49
Acenaphthylene
Concen: 2.534 ng
RT: 14.26 min Scan# 1902
Delta R.T. 0.00 min
Lab File: BG044428.D
Acq: 13 Feb 2020 21:56

Tgt Ion	Ratio	Lower	Upper
152	100		
151	23.3	18.1	27.1
153	18.2	11.5	17.3#

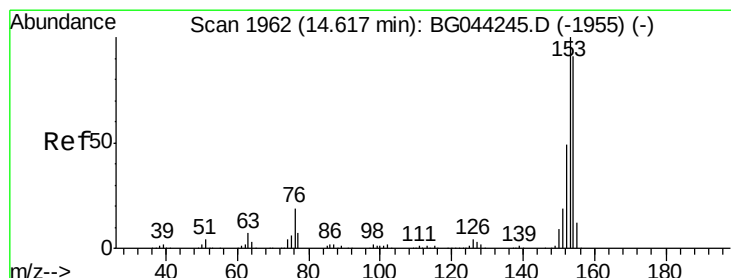
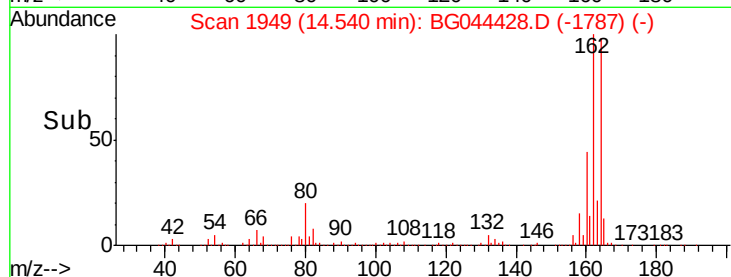
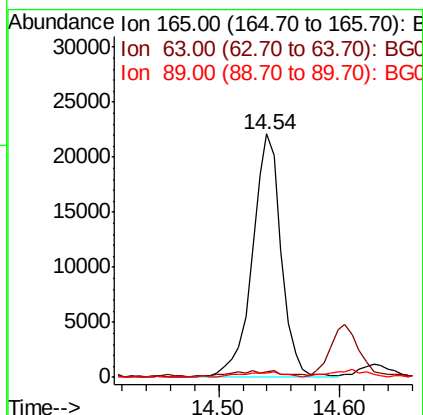
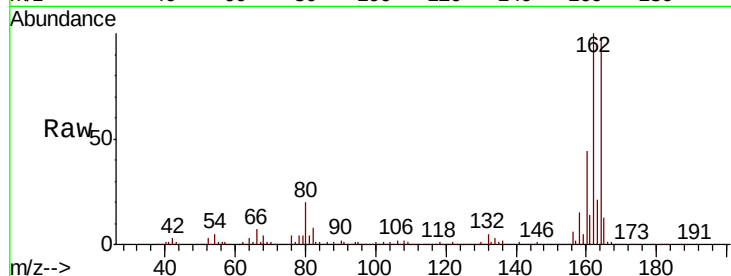




#51
 2,6-Dinitrotoluene
 Concen: 9.127 ng
 RT: 14.54 min Scan# 1949
 Delta R.T. 0.42 min
 Lab File: BG044428.D
 Acq: 13 Feb 2020 21:56

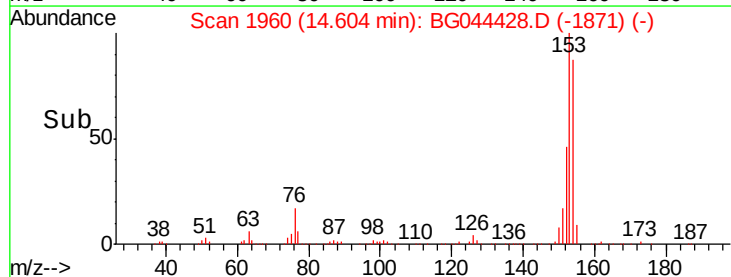
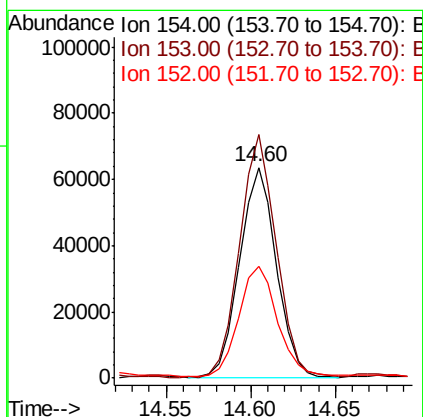
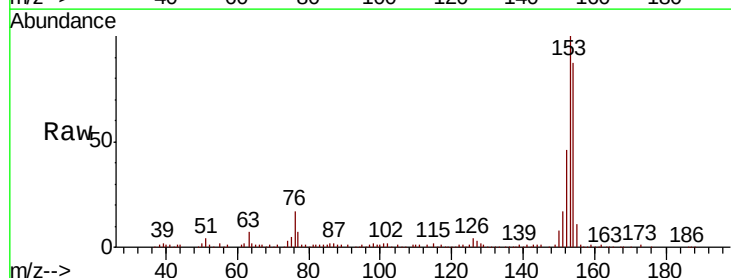
Instrument :
 BNA_G
 ClientSampleId :

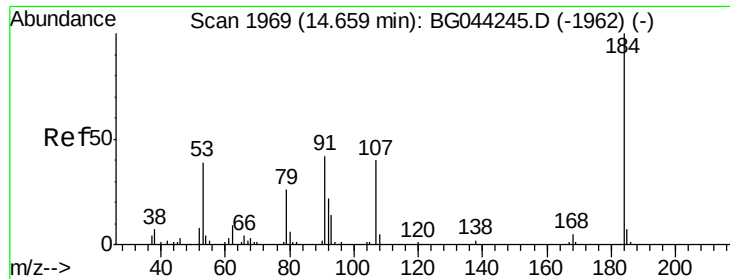
Tot Ion:165 Resp: 36704
 Ion Ratio Lower Upper
 165 100
 63 2.1 38.7 58.1#
 89 1.8 40.4 60.6#



#52
 Acenaphthene
 Concen: 6.977 ng
 RT: 14.60 min Scan# 1960
 Delta R.T. -0.00 min
 Lab File: BG044428.D
 Acq: 13 Feb 2020 21:56

Tgt Ion:154 Resp: 95529
 Ion Ratio Lower Upper
 154 100
 153 115.5 87.9 131.9
 152 53.3 43.1 64.7

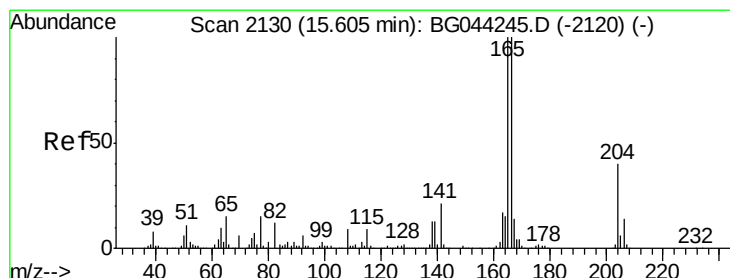
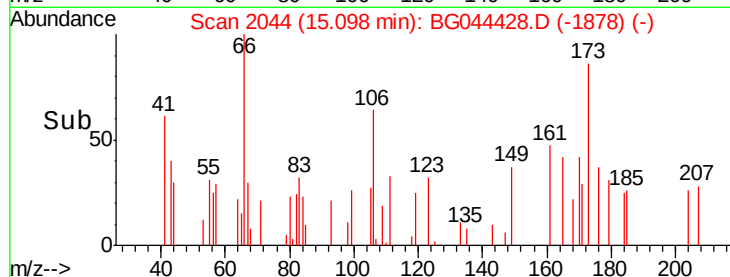
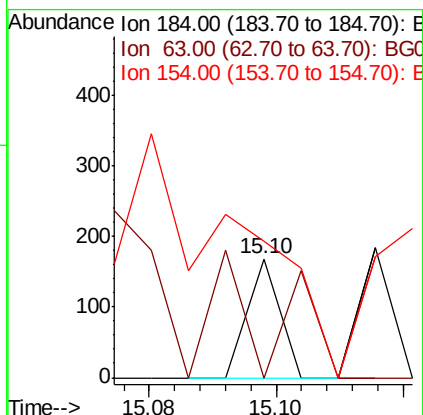
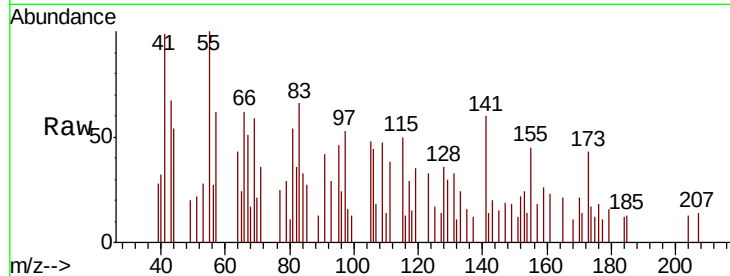




#54
 2,4-Dinitrophenol
 Concen: 7.647 ng
 RT: 15.10 min Scan# 2044
 Delta R.T. 0.45 min
 Lab File: BG044428.D
 Acq: 13 Feb 2020 21:56

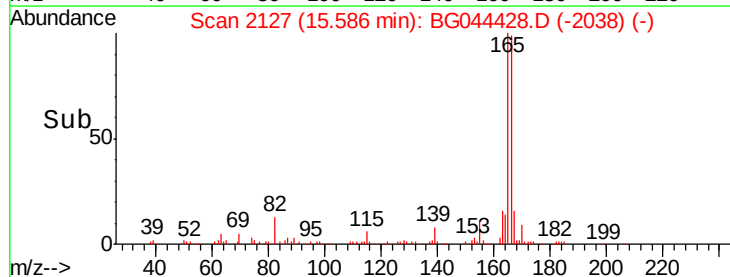
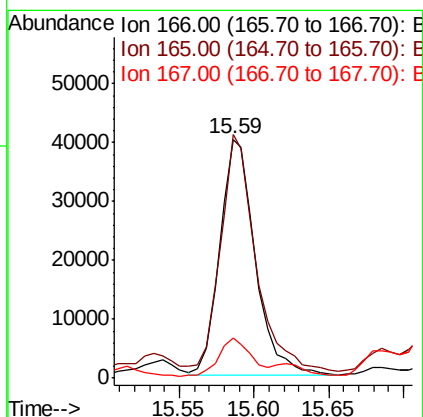
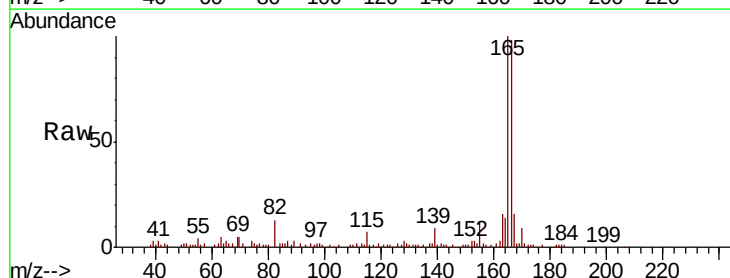
Instrument :
 BNA_G
 ClientSampleId :

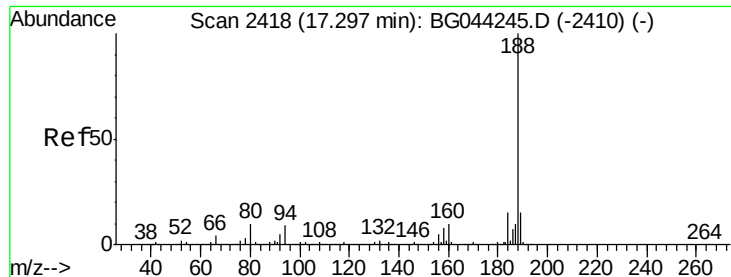
Tot Ion:184 Resp: 59
 Ion Ratio Lower Upper
 184 100
 63 0.0 44.1 66.1#
 154 114.9 45.4 68.0#



#58
 Fluorene
 Concen: 4.040 ng
 RT: 15.59 min Scan# 2127
 Delta R.T. -0.00 min
 Lab File: BG044428.D
 Acq: 13 Feb 2020 21:56

Tgt Ion:166 Resp: 65961
 Ion Ratio Lower Upper
 166 100
 165 101.8 79.9 119.9
 167 16.6 11.4 17.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.28 min Scan# 2416

Delta R.T. -0.00 min

Lab File: BG044428.D

Acq: 13 Feb 2020 21:56

Instrument :

BNA_G

ClientSampleId :

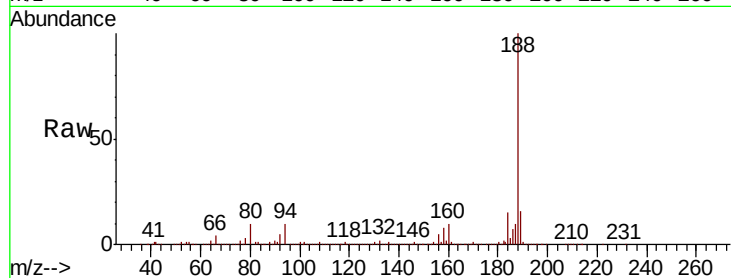
Tot Ion:188 Resp: 506734

Ion Ratio Lower Upper

188 100

94 9.6 7.4 11.2

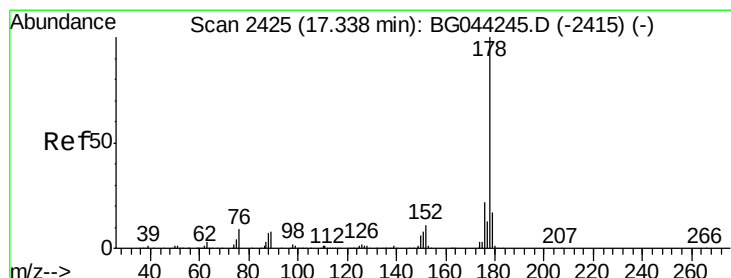
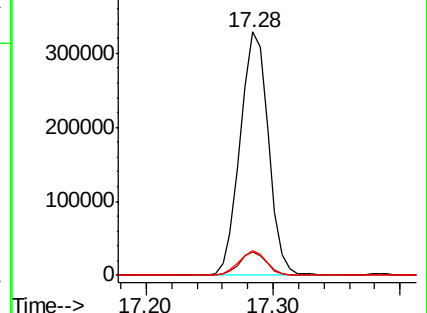
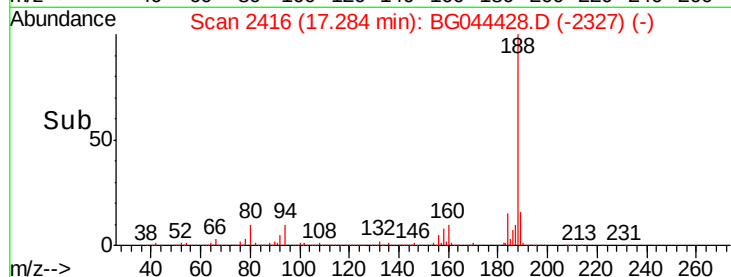
80 10.1 7.7 11.5



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG

Ion 80.00 (79.70 to 80.70): BG



#71

Phenanthrene

Concen: 17.726 ng

RT: 17.32 min Scan# 2423

Delta R.T. -0.00 min

Lab File: BG044428.D

Acq: 13 Feb 2020 21:56

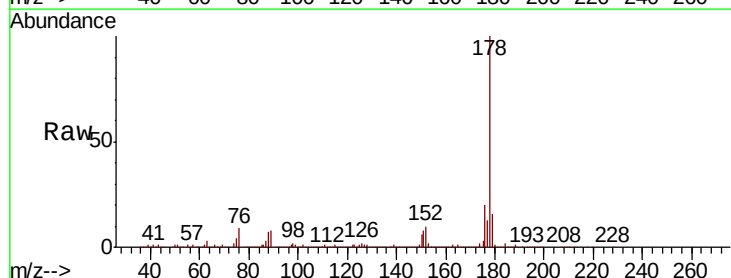
Tgt Ion:178 Resp: 434967

Ion Ratio Lower Upper

178 100

176 20.5 17.7 26.5

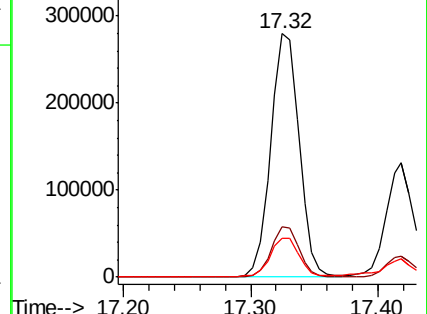
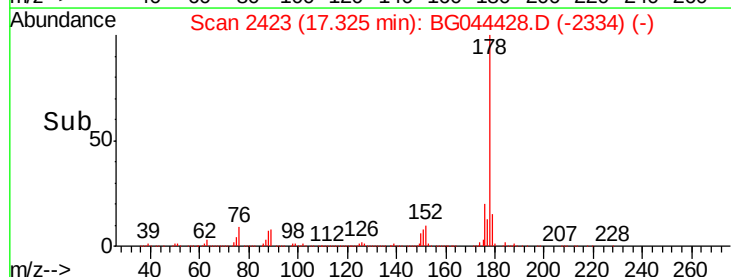
179 16.0 13.7 20.5

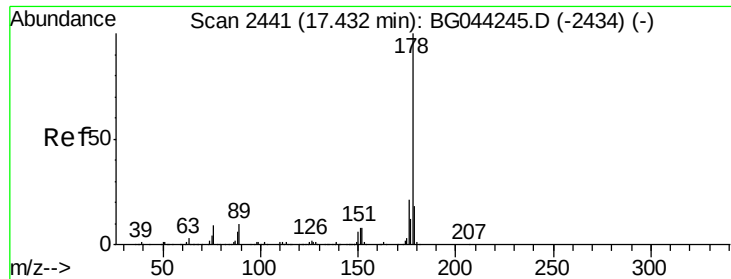


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 7.807 ng

RT: 17.42 min Scan# 2439

Delta R.T. -0.00 min

Lab File: BG044428.D

Acq: 13 Feb 2020 21:56

Instrument :

BNA_G

ClientSampled :

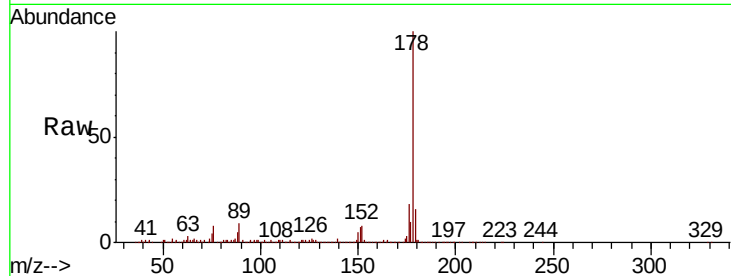
Tot Ion:178 Resp: 189394

Ion Ratio Lower Upper

178 100

176 18.2 17.0 25.4

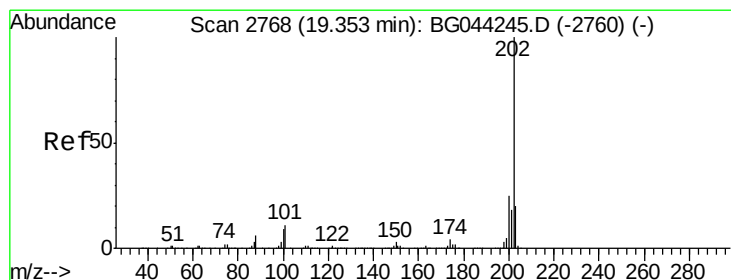
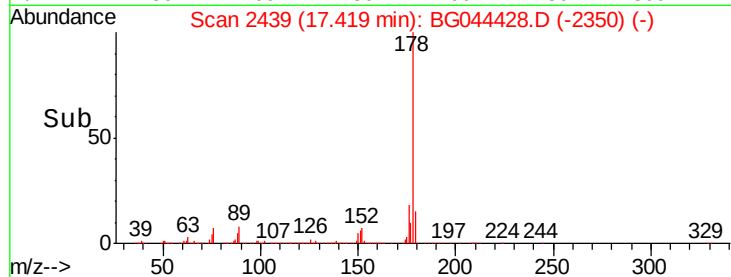
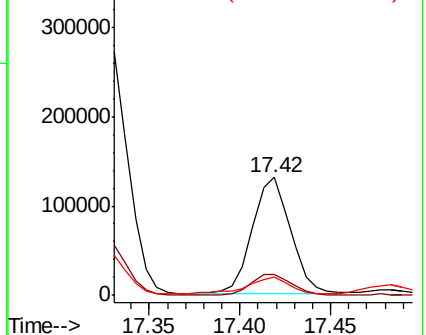
179 15.7 14.4 21.6



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



#75

Fluoranthene

Concen: 22.327 ng

RT: 19.34 min Scan# 2766

Delta R.T. 0.00 min

Lab File: BG044428.D

Acq: 13 Feb 2020 21:56

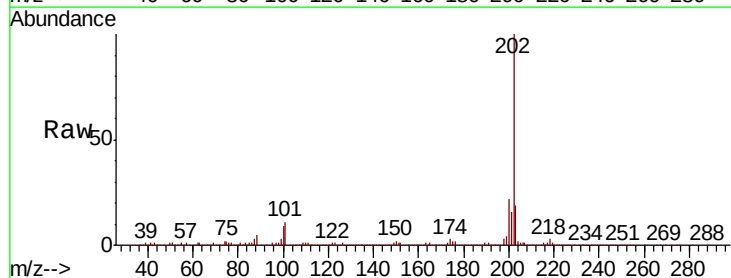
Tgt Ion:202 Resp: 633766

Ion Ratio Lower Upper

202 100

101 11.4 0.0 31.3

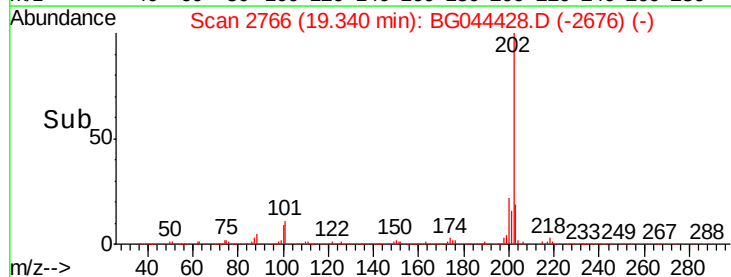
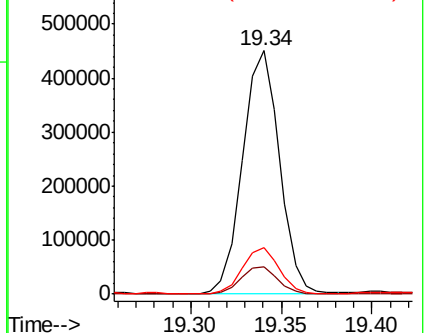
203 18.9 0.0 39.9

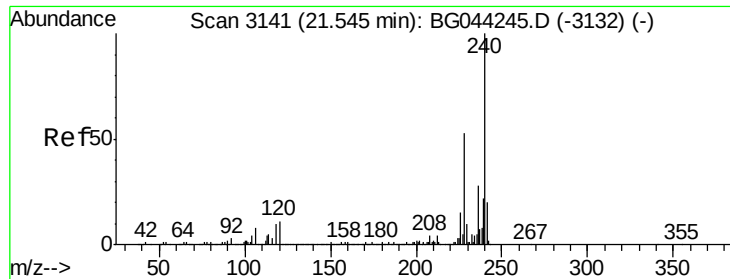


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

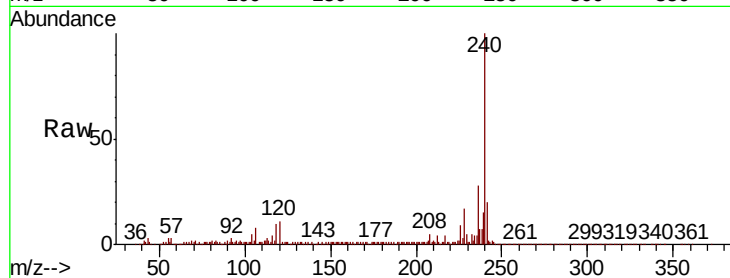




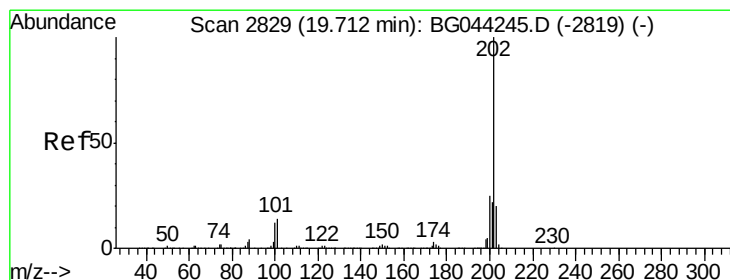
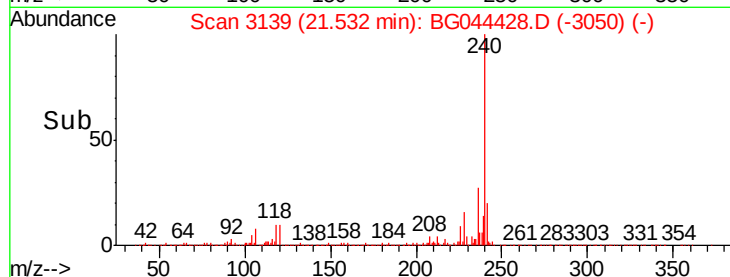
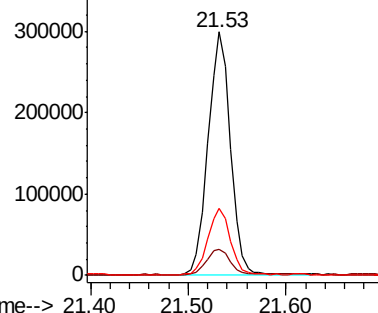
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.53 min Scan# 3139
Delta R.T. -0.00 min
Lab File: BG044428.D
Acq: 13 Feb 2020 21:56

Instrument :
BNA_G
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
240	100		
120	10.8	8.4	12.6
236	27.5	22.1	33.1

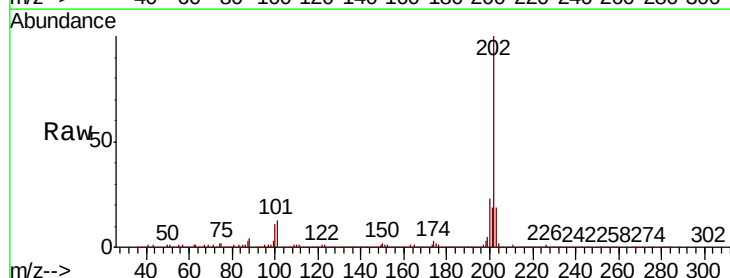


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

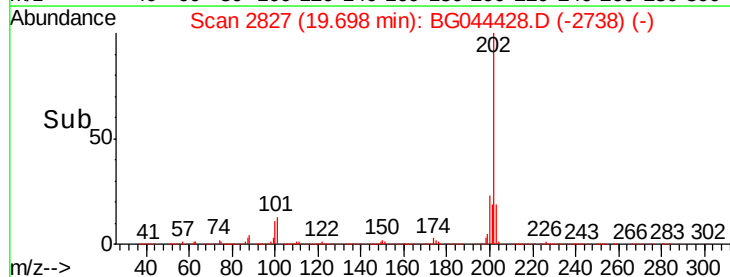
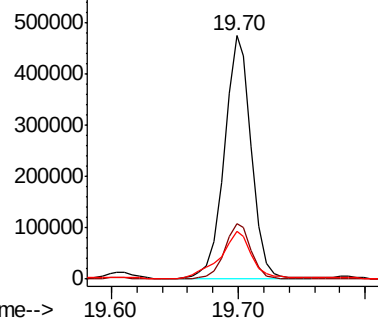


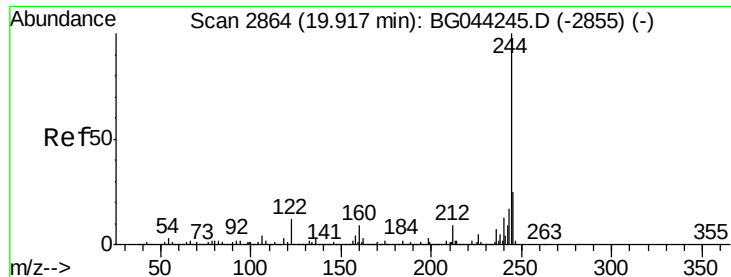
#78
Pyrene
Concen: 22.880 ng
RT: 19.70 min Scan# 2827
Delta R.T. -0.00 min
Lab File: BG044428.D
Acq: 13 Feb 2020 21:56

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.6	20.0	30.0
203	19.4	16.2	24.2



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

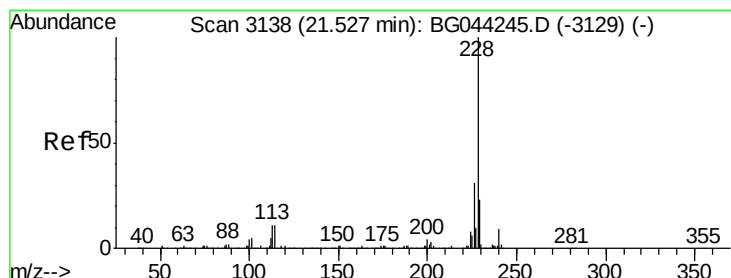
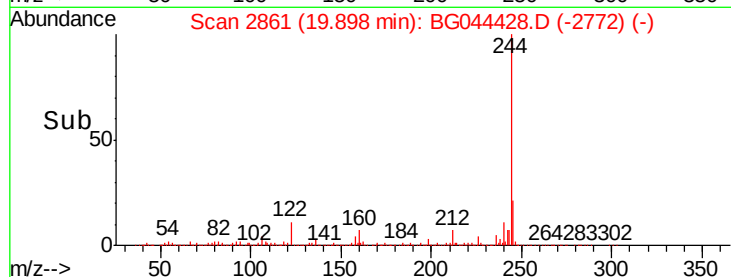
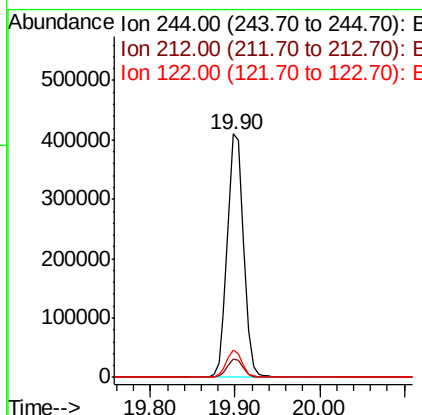
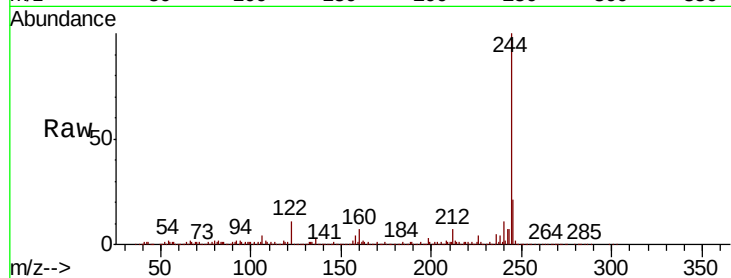




#79
 Terphenyl-d14
 Concen: 23.716 ng
 RT: 19.90 min Scan# 2861
 Delta R.T. -0.00 min
 Lab File: BG044428.D
 Acq: 13 Feb 2020 21:56

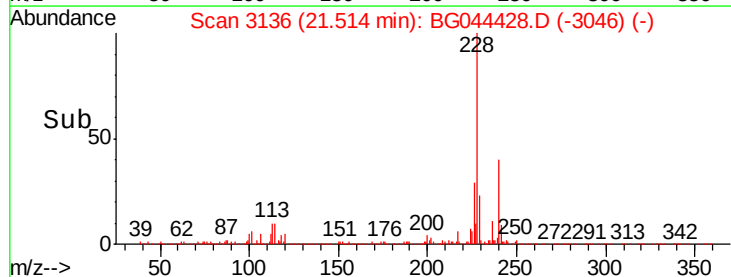
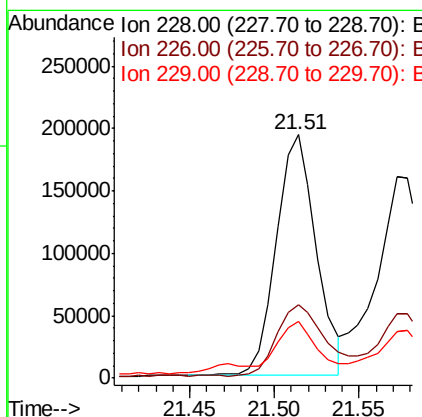
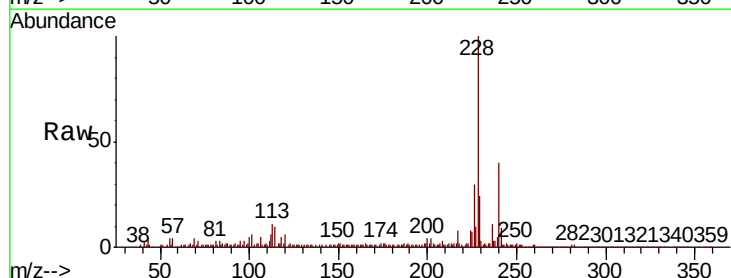
Instrument :
 BNA_G
 ClientSampled :

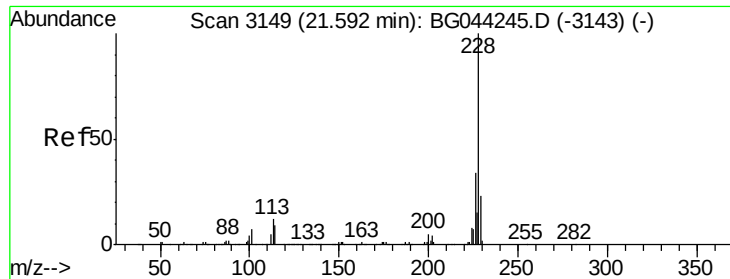
Tot Ion:244 Resp: 544817
 Ion Ratio Lower Upper
 244 100
 212 7.4 7.4 11.2#
 122 11.2 9.8 14.6



#81
 Benzo(a)anthracene
 Concen: 10.896 ng
 RT: 21.51 min Scan# 3136
 Delta R.T. 0.00 min
 Lab File: BG044428.D
 Acq: 13 Feb 2020 21:56

Tgt Ion:228 Resp: 317318
 Ion Ratio Lower Upper
 228 100
 226 30.0 24.7 37.1
 229 23.5 18.2 27.4

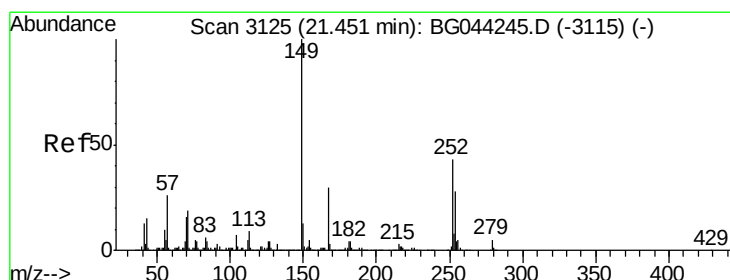
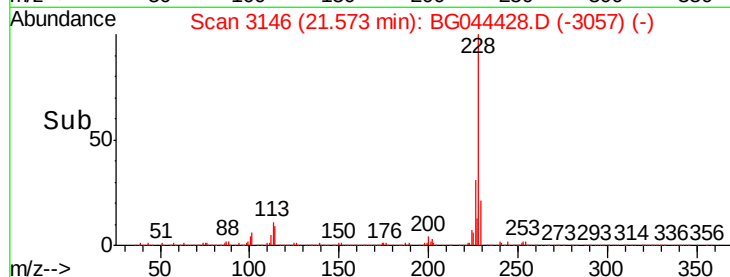
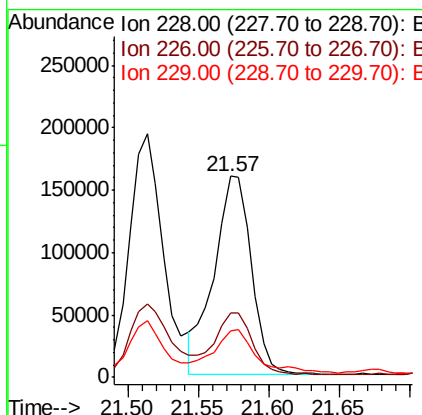
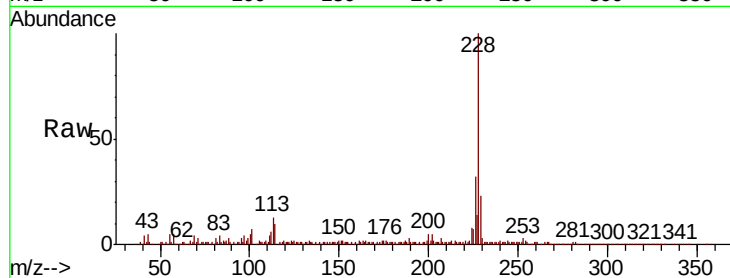




#83
Chrysene
Concen: 10.513 ng
RT: 21.57 min Scan# 3146
Delta R.T. -0.00 min
Lab File: BG044428.D
Acq: 13 Feb 2020 21:56

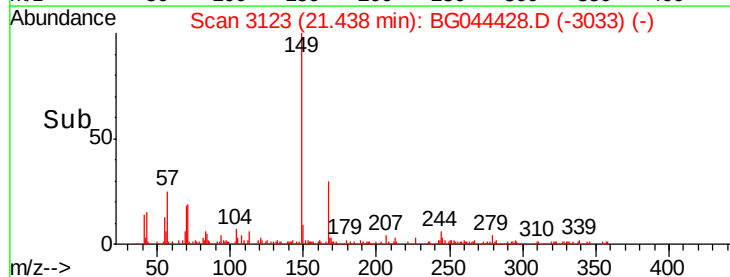
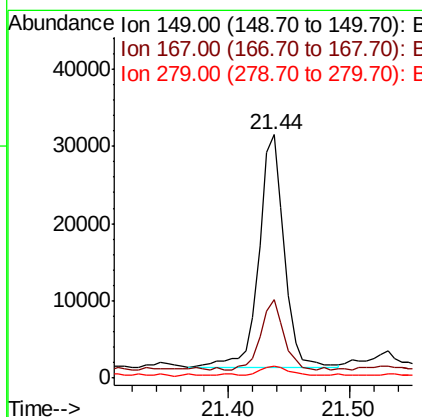
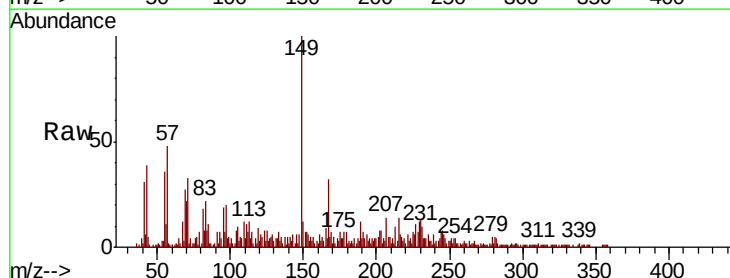
Instrument :
BNA_G
ClientSampleId :

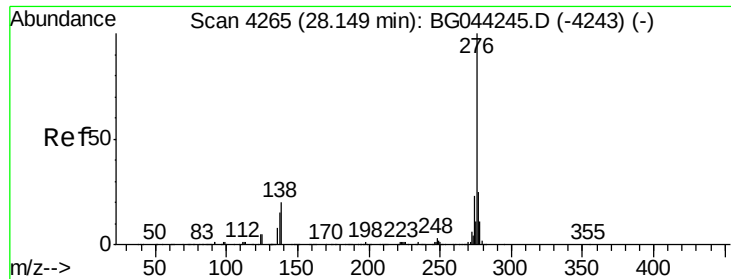
Tot Ion:228 Resp: 295914
Ion Ratio Lower Upper
228 100
226 32.0 27.1 40.7
229 23.4 17.9 26.9



#84
Bis(2-ethylhexyl)phthalate
Concen: 2.260 ng
RT: 21.44 min Scan# 3123
Delta R.T. 0.00 min
Lab File: BG044428.D
Acq: 13 Feb 2020 21:56

Tgt Ion:149 Resp: 43025
Ion Ratio Lower Upper
149 100
167 32.0 24.0 36.0
279 5.0 3.8 5.8

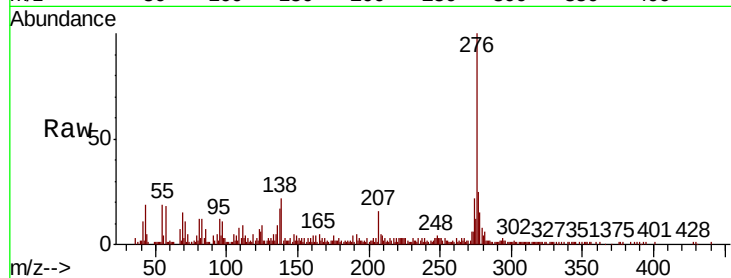




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 3.642 ng
 RT: 28.12 min Scan# 4260
 Delta R.T. 0.00 min
 Lab File: BG044428.D
 Acq: 13 Feb 2020 21:56

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	20.3	19.4	29.0
277	25.8	21.0	31.6

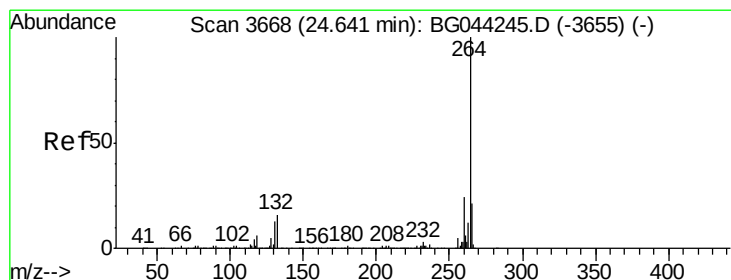
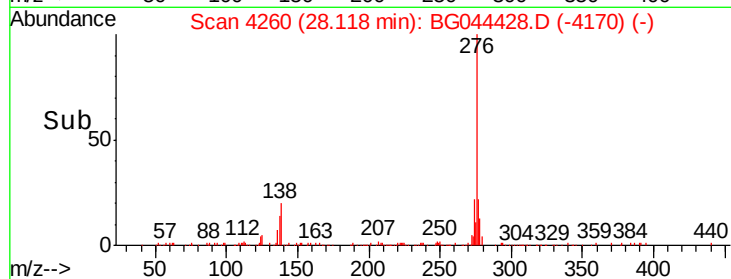
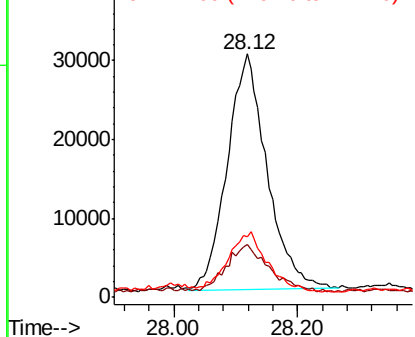


Abundance

Ion 276.00 (275.70 to 276.70): E

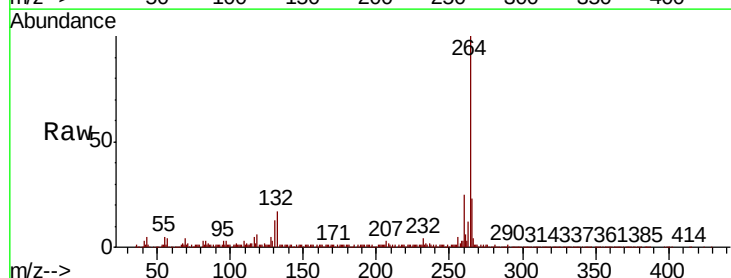
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 24.62 min Scan# 3665
 Delta R.T. 0.00 min
 Lab File: BG044428.D
 Acq: 13 Feb 2020 21:56

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.4	19.4	29.2
265	22.9	16.7	25.1

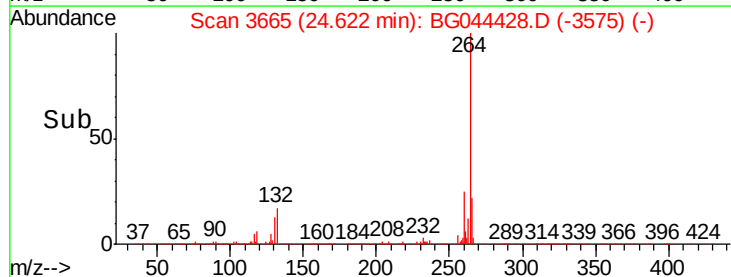
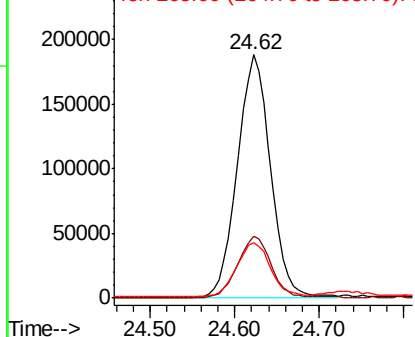


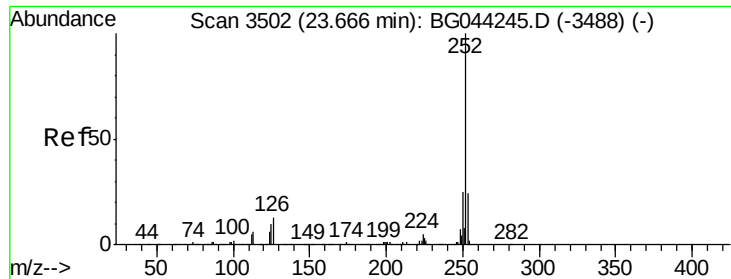
Abundance

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

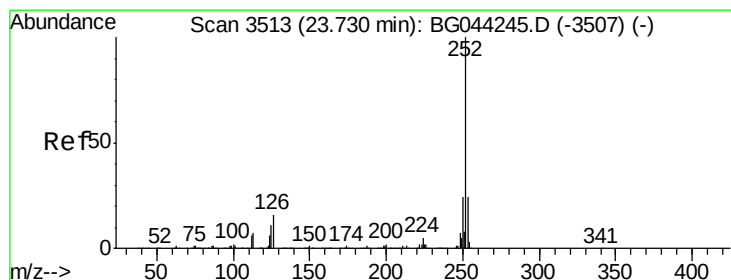
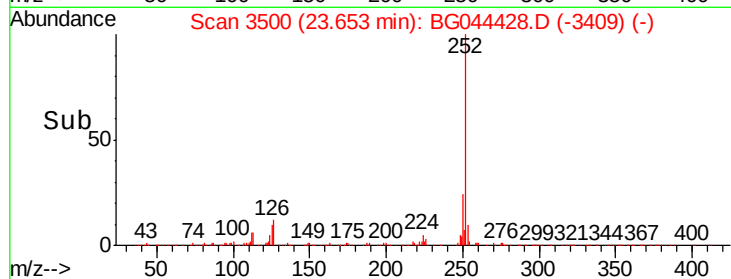
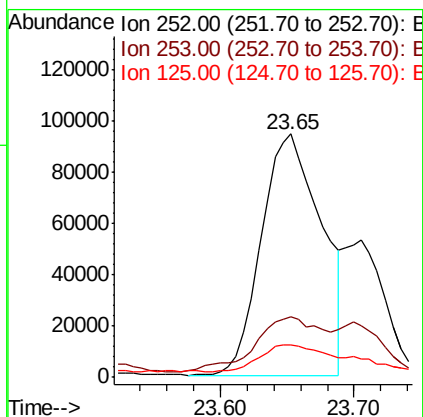
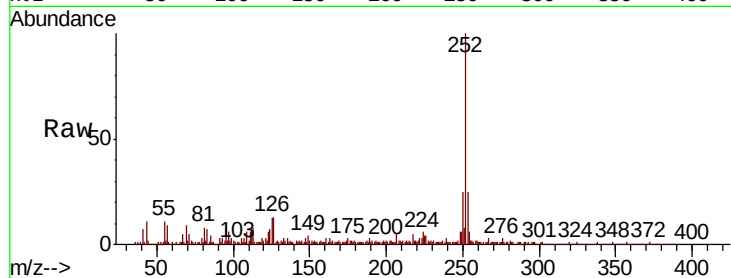




#88
Benzo(b)fluoranthene
Concen: 10.058 ng
RT: 23.65 min Scan# 3500
Delta R.T. 0.01 min
Lab File: BG044428.D
Acq: 13 Feb 2020 21:56

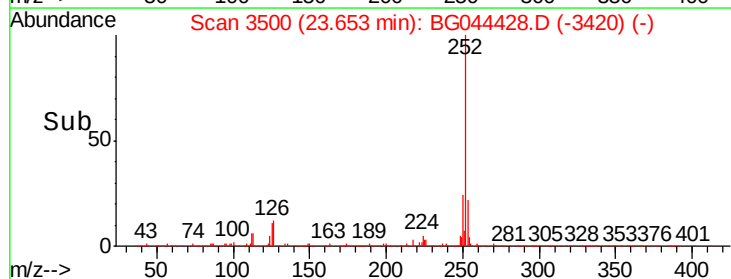
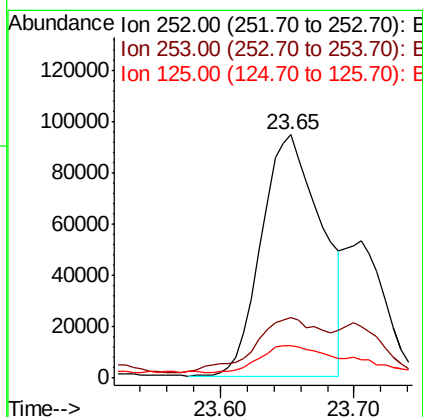
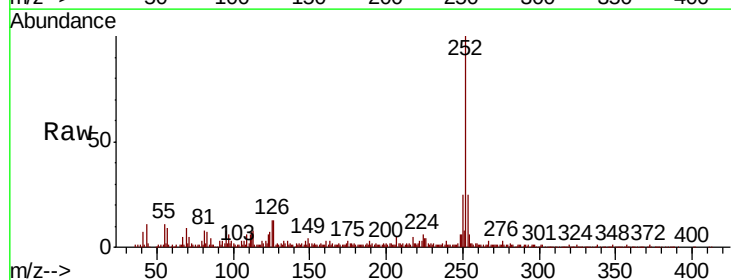
Instrument :
BNA_G
ClientSampleId :

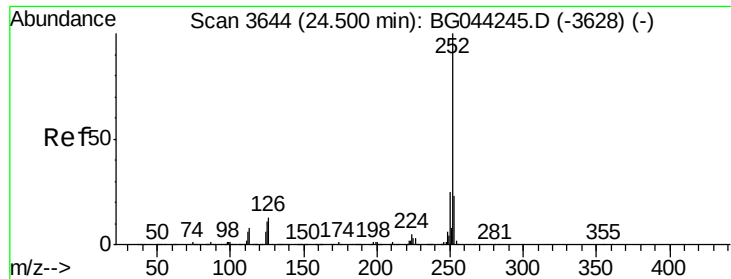
Tot Ion	Ratio	Lower	Upper
252	100		
253	25.0	19.2	28.8
125	13.1	8.4	12.6



#89
Benzo(k)fluoranthene
Concen: 10.319 ng
RT: 23.65 min Scan# 3500
Delta R.T. -0.06 min
Lab File: BG044428.D
Acq: 13 Feb 2020 21:56

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.0	19.1	28.7
125	13.1	8.6	12.8

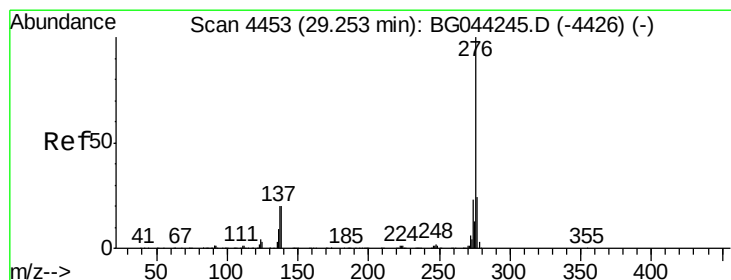
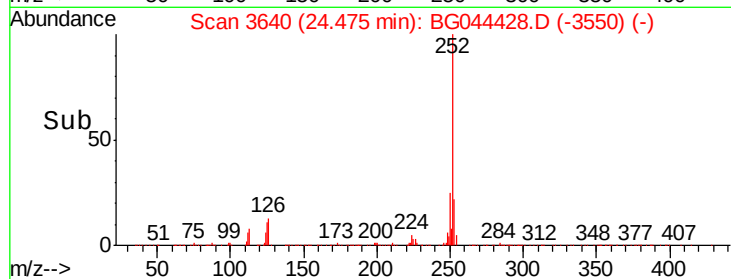
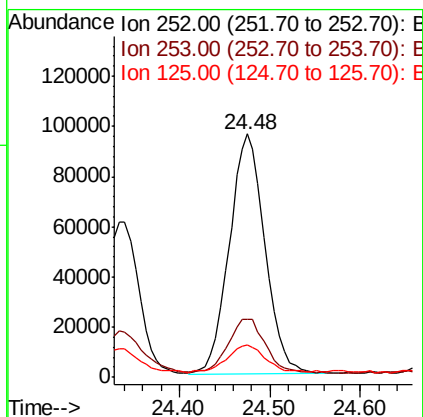
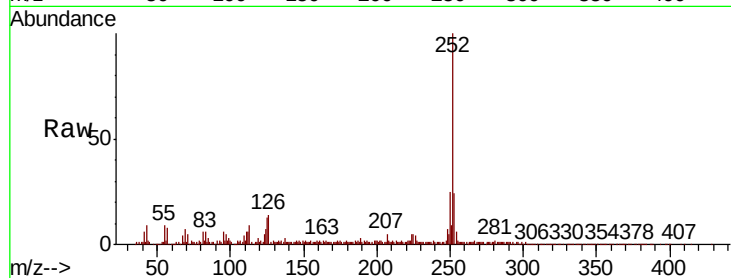




#90
Benzo(a)pyrene
Concen: 9.392 ng
RT: 24.48 min Scan# 3640
Delta R.T. 0.00 min
Lab File: BG044428.D
Acq: 13 Feb 2020 21:56

Instrument :
BNA_G
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	18.1	27.1
125	13.2	8.6	13.0



#92
Benzo(g,h,i)perylene
Concen: 5.037 ng
RT: 29.20 min Scan# 4445
Delta R.T. 0.00 min
Lab File: BG044428.D
Acq: 13 Feb 2020 21:56

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.9	18.8	28.2
138	22.0	16.2	24.2

