

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG120522\
 Data File : BG055898.D
 Acq On : 5 Dec 2022 23:57
 Operator : CG/JU
 Sample : N5849-01 2X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 TR-5-120222

Quant Time: Dec 06 04:49:50 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG111622.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 06 04:41:17 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

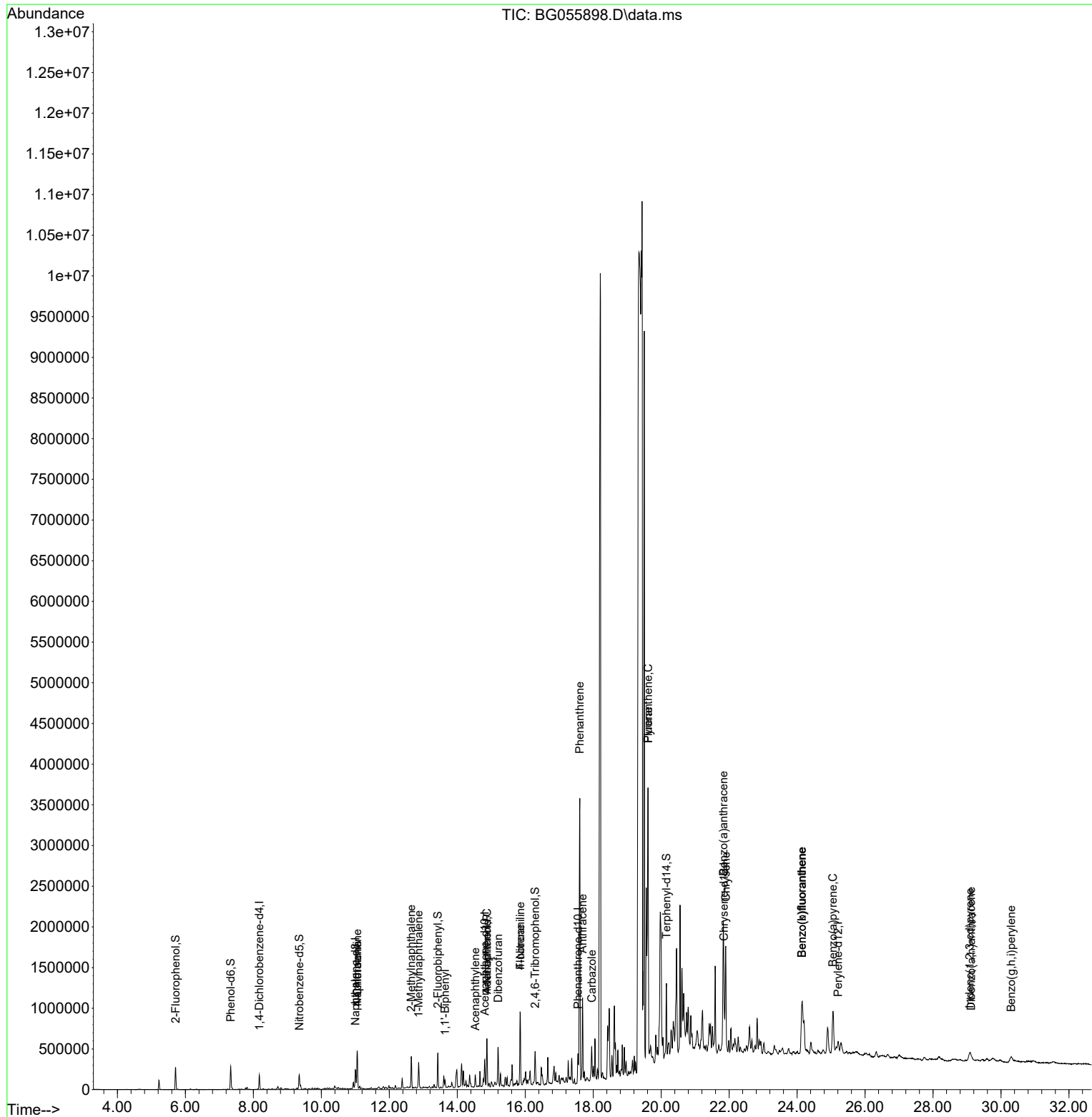
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.176	152	49502	20.000	ng	0.00
21) Naphthalene-d8	11.002	136	197211	20.000	ng	0.00
39) Acenaphthene-d10	14.809	164	122647	20.000	ng	0.00
64) Phenanthrene-d10	17.553	188	250286	20.000	ng	0.00
76) Chrysene-d12	21.848	240	221355	20.000	ng	0.01
86) Perylene-d12	25.209	264	205003	20.000	ng	# 0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.714	112	123476	45.086	ng	0.01
7) Phenol-d6	7.336	99	160844	44.120	ng	0.00
23) Nitrobenzene-d5	9.351	82	102012	27.340	ng	0.00
42) 2,4,6-Tribromophenol	16.296	330	58496	33.871	ng	0.00
45) 2-Fluorobiphenyl	13.428	172	220456	26.929	ng	0.00
79) Terphenyl-d14	20.156	244	297493	26.881	ng	0.02
Target Compounds						Qvalue
31) Naphthalene	11.055	128	382608	35.889	ng	100
33) 4-Chloroaniline	11.055	127	52319	11.897	ng	# 33
37) 2-Methylnaphthalene	12.647	142	180634	22.629	ng	99
38) 1-Methylnaphthalene	12.864	142	144728	18.677	ng	99
46) 1,1'-Biphenyl	13.640	154	46660	5.221	ng	98
49) Acenaphthylene	14.533	152	60340	5.275	ng	# 92
52) Acenaphthene	14.874	154	202406	27.073	ng	99
55) Dibenzofuran	15.203	168	269857	23.397	ng	98
56) 4-Nitrophenol	14.874	139	3765	2.186	ng	81
58) Fluorene	15.855	166	412751	44.806	ng	99
62) 4-Nitroaniline	15.855	138	5447	2.374	ng	# 26
71) Phenanthrene	17.606	178	2342289	173.419	ng	94
72) Anthracene	17.688	178	660838	50.357	ng	99
73) Carbazole	17.958	167	281371	23.850	ng	99
75) Fluoranthene	19.615	202	2113792	128.642	ng	94
78) Pyrene	19.615	202	2113792	141.078	ng	93
81) Benzo(a)anthracene	21.830	228	1105264	72.495	ng	96
83) Chrysene	21.901	228	960648	66.187	ng	97
87) Indeno(1,2,3-cd)pyrene	29.081	276	231483	13.783	ng	93
88) Benzo(b)fluoranthene	24.145	252	946104	70.864	ng	97
89) Benzo(k)fluoranthene	24.145	252	946104	71.092	ng	96
90) Benzo(a)pyrene	25.056	252	762773	66.578	ng	96
91) Dibenzo(a,h)anthracene	29.122	278	61874	4.508	ng	# 82
92) Benzo(g,h,i)perylene	30.303	276	198150	14.325	ng	97

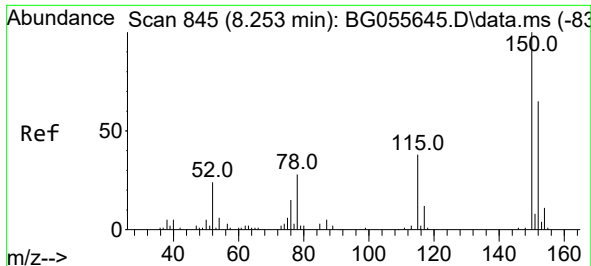
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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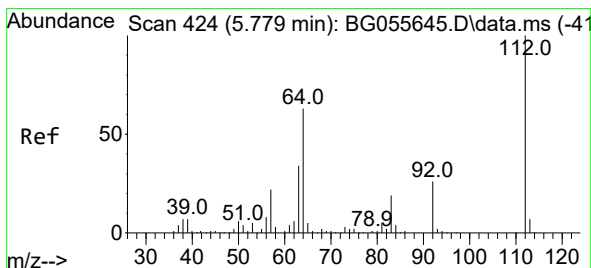
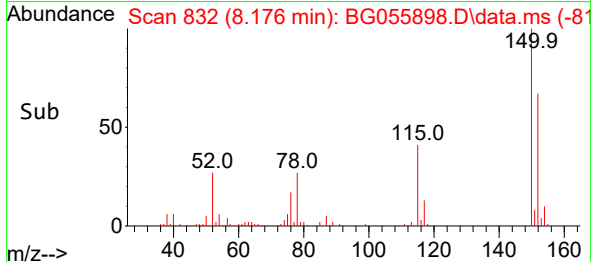
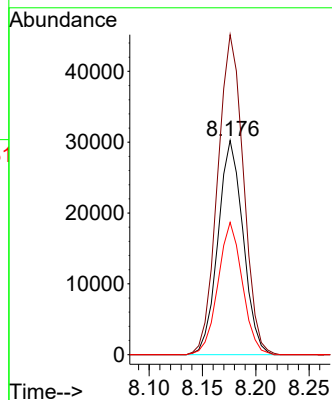
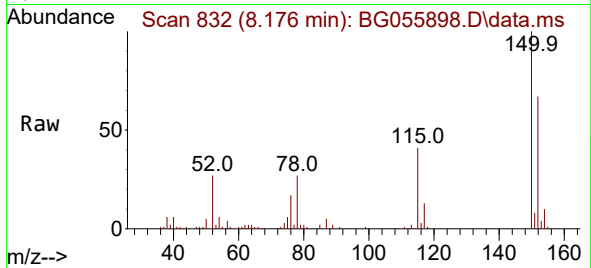




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.176 min Scan# 81
Delta R.T. 0.001 min
Lab File: BG055898.D
Acq: 5 Dec 2022 23:57

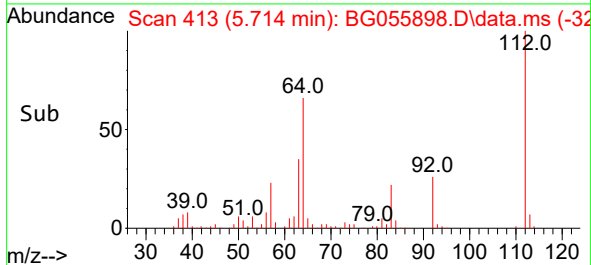
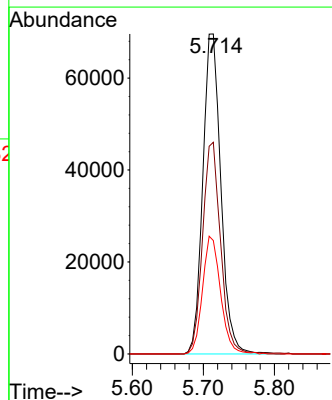
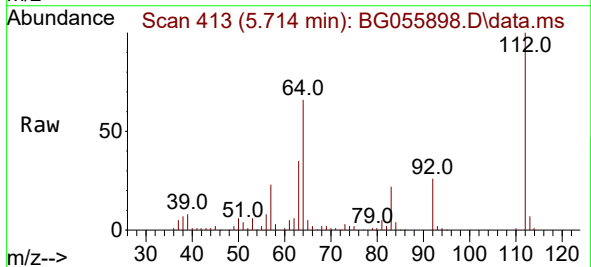
Instrument :
BNA_G
ClientSampleId :
TR-5-120222

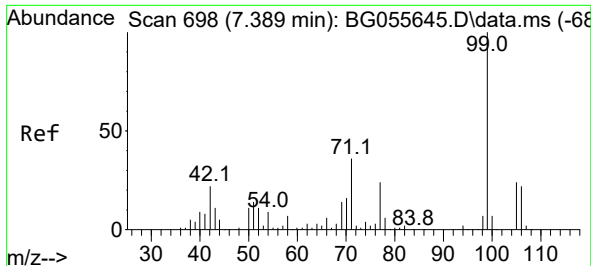
Tgt Ion:152 Resp: 49502
Ion Ratio Lower Upper
152 100
150 149.4 123.0 184.6
115 61.8 47.0 70.4



#5
2-Fluorophenol
Concen: 45.086 ng
RT: 5.714 min Scan# 413
Delta R.T. 0.012 min
Lab File: BG055898.D
Acq: 5 Dec 2022 23:57

Tgt Ion:112 Resp: 123476
Ion Ratio Lower Upper
112 100
64 66.2 50.6 76.0
63 35.5 27.5 41.3

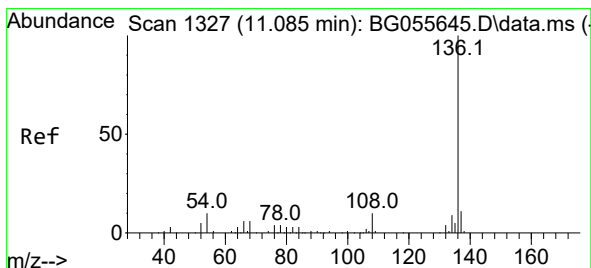
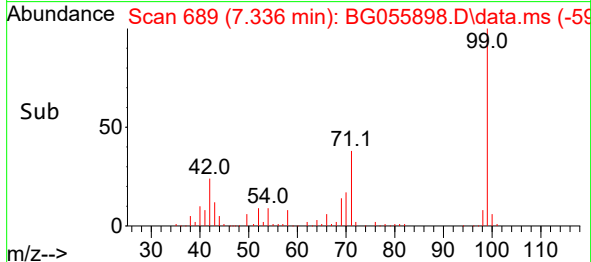
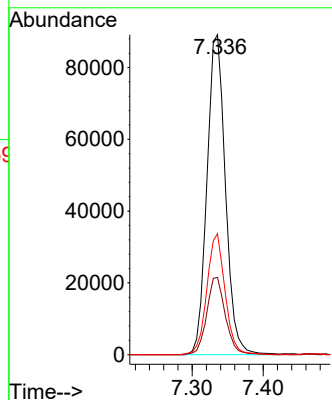
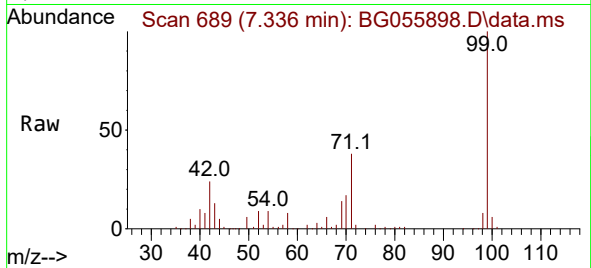




#7
Phenol-d6
Concen: 44.120 ng
RT: 7.336 min Scan# 61
Delta R.T. 0.006 min
Lab File: BG055898.D
Acq: 5 Dec 2022 23:57

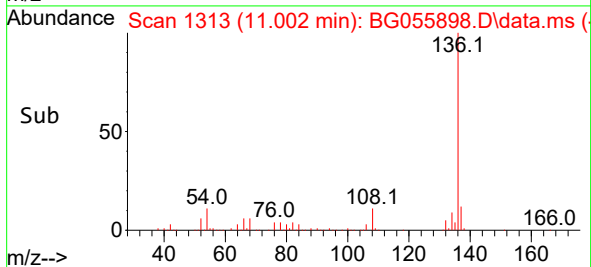
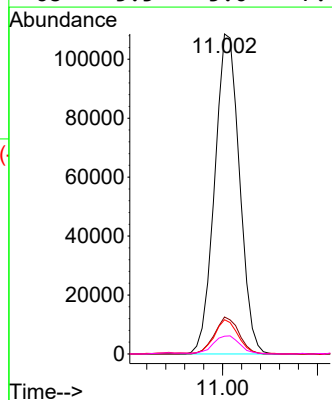
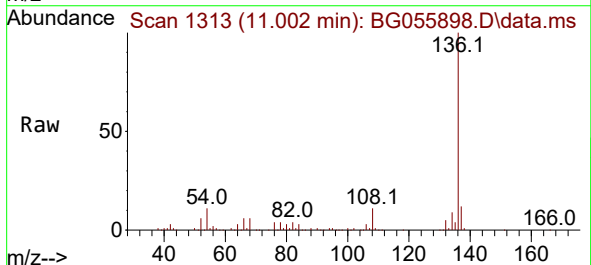
Instrument :
BNA_G
ClientSampleId :
TR-5-120222

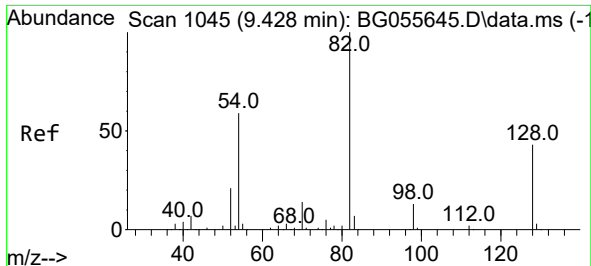
Tgt Ion: 99 Resp: 160844
Ion Ratio Lower Upper
99 100
42 24.1 18.0 27.0
71 37.8 29.0 43.6



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.002 min Scan# 1313
Delta R.T. 0.000 min
Lab File: BG055898.D
Acq: 5 Dec 2022 23:57

Tgt Ion:136 Resp: 197211
Ion Ratio Lower Upper
136 100
137 11.6 9.0 13.6
54 10.7 7.8 11.6
68 5.5 5.0 7.4





#23

Nitrobenzene-d5

Concen: 27.340 ng

RT: 9.351 min Scan# 1032

Delta R.T. 0.000 min

Lab File: BG055898.D

Acq: 5 Dec 2022 23:57

Instrument :

BNA_G

ClientSampleId :

TR-5-120222

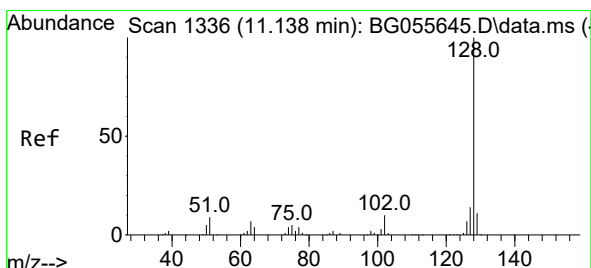
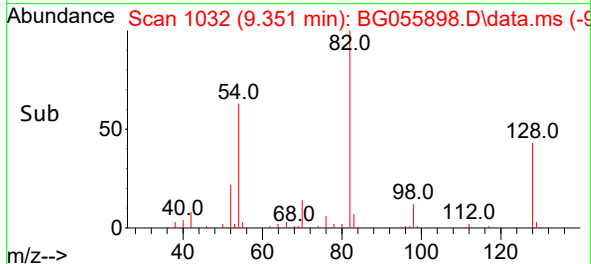
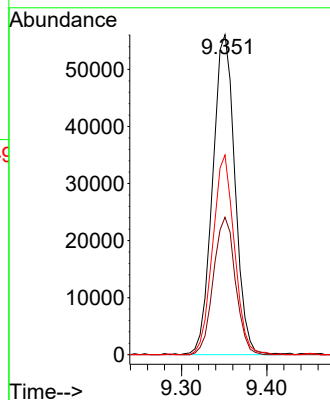
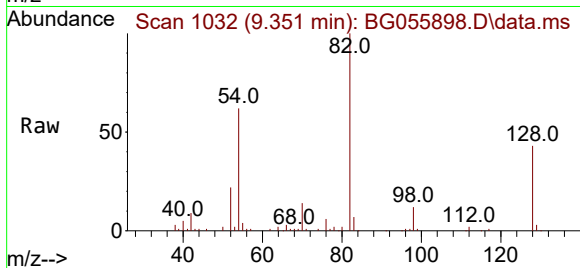
Tgt Ion: 82 Resp: 102012

Ion Ratio Lower Upper

82 100

128 43.0 34.1 51.1

54 62.4 47.3 70.9



#31

Naphthalene

Concen: 35.889 ng

RT: 11.055 min Scan# 1322

Delta R.T. 0.000 min

Lab File: BG055898.D

Acq: 5 Dec 2022 23:57

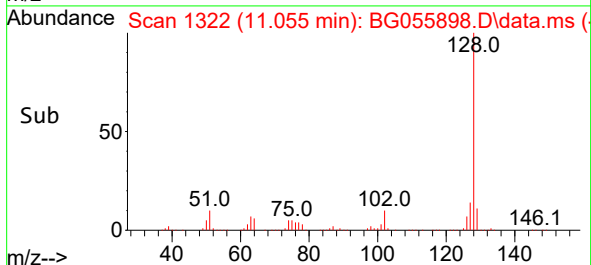
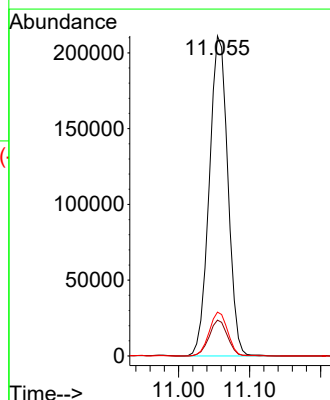
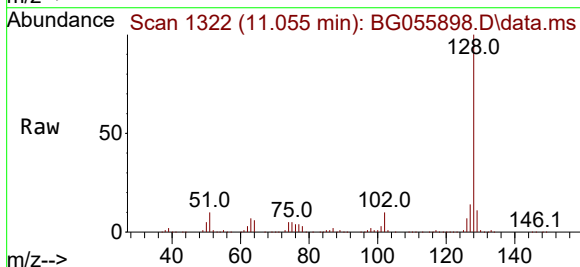
Tgt Ion:128 Resp: 382608

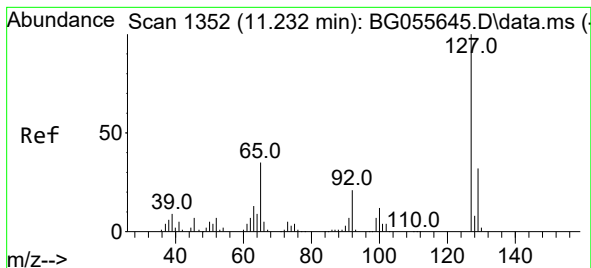
Ion Ratio Lower Upper

128 100

129 11.2 8.7 13.1

127 13.7 10.9 16.3

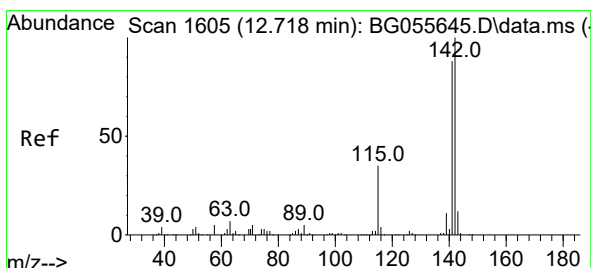
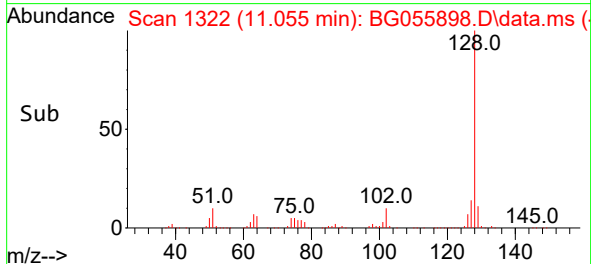
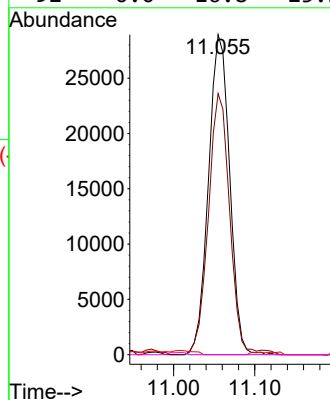
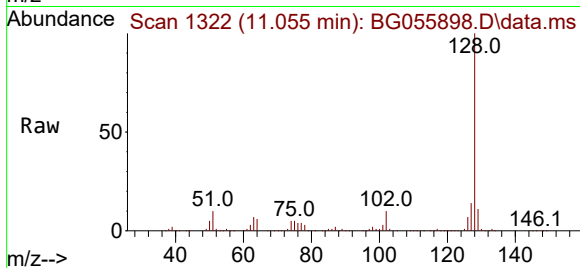




#33
4-Chloroaniline
Concen: 11.897 ng
RT: 11.055 min Scan# 11
Delta R.T. -0.100 min
Lab File: BG055898.D
Acq: 5 Dec 2022 23:57

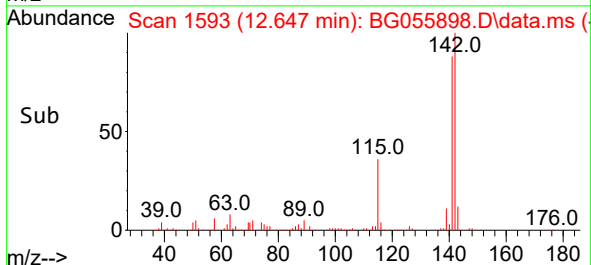
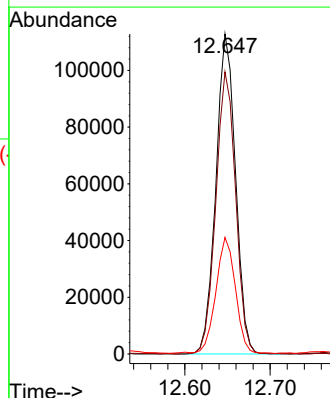
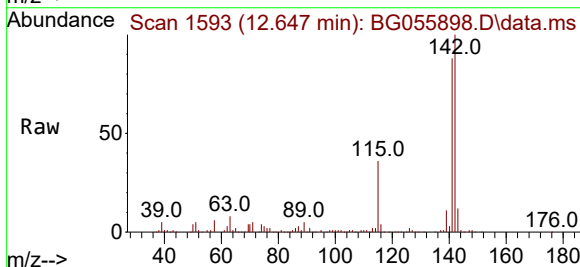
Instrument :
BNA_G
ClientSampleId :
TR-5-120222

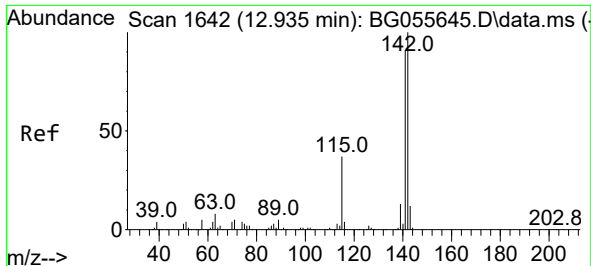
Tgt Ion:	127	Resp:	52319
Ion	Ratio	Lower	Upper
127	100		
129	81.6	25.9	38.9#
65	0.0	27.9	41.9#
92	0.0	16.8	25.2#



#37
2-Methylnaphthalene
Concen: 22.629 ng
RT: 12.647 min Scan# 1593
Delta R.T. 0.000 min
Lab File: BG055898.D
Acq: 5 Dec 2022 23:57

Tgt Ion:	142	Resp:	180634
Ion	Ratio	Lower	Upper
142	100		
141	88.2	70.3	105.5
115	36.4	27.9	41.9

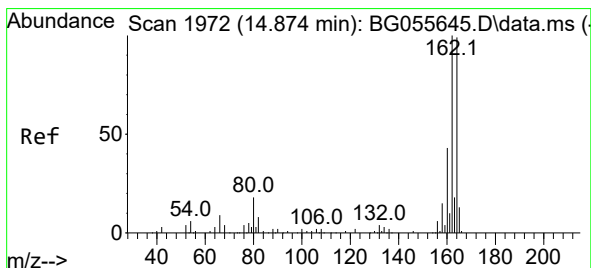
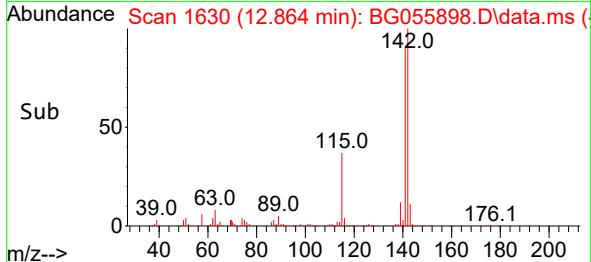
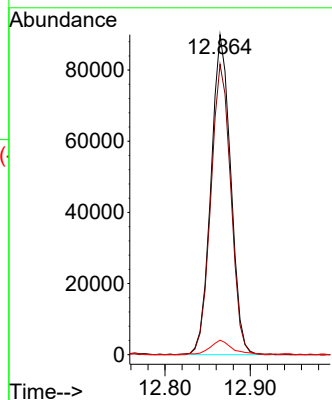
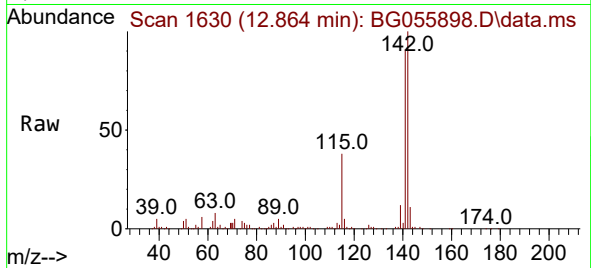




#38
1-Methylnaphthalene
Concen: 18.677 ng
RT: 12.864 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG055898.D
Acq: 5 Dec 2022 23:57

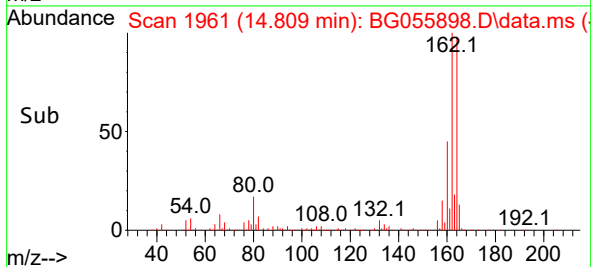
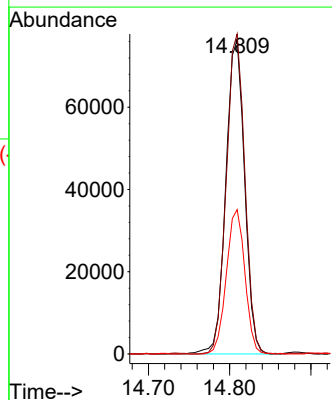
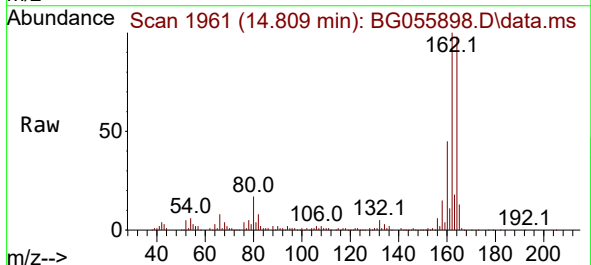
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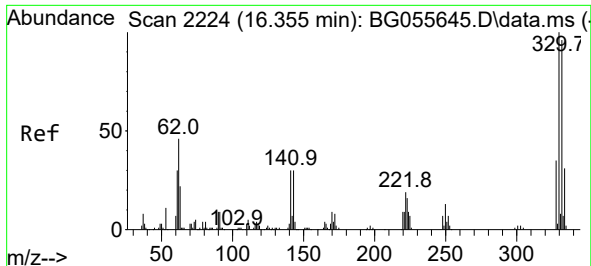
Tgt Ion:142 Resp: 144728
Ion Ratio Lower Upper
142 100
141 90.7 73.0 109.4
116 4.5 3.1 4.7



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.809 min Scan# 1961
Delta R.T. 0.000 min
Lab File: BG055898.D
Acq: 5 Dec 2022 23:57

Tgt Ion:164 Resp: 122647
Ion Ratio Lower Upper
164 100
162 101.9 81.1 121.7
160 45.9 34.8 52.2





#42

2,4,6-Tribromophenol

Concen: 33.871 ng

RT: 16.296 min Scan# 21

Delta R.T. 0.000 min

Lab File: BG055898.D

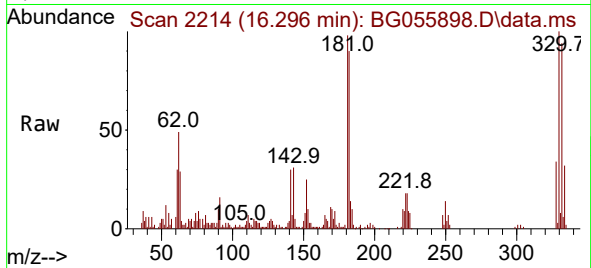
Acq: 5 Dec 2022 23:57

Instrument :

BNA_G

ClientSampleId :

TR-5-120222



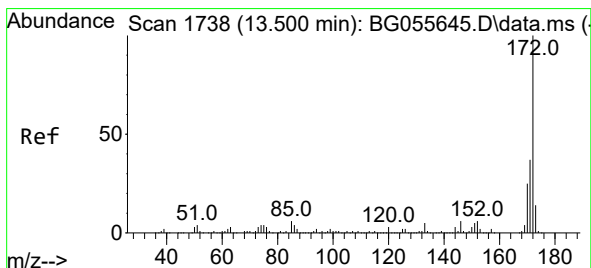
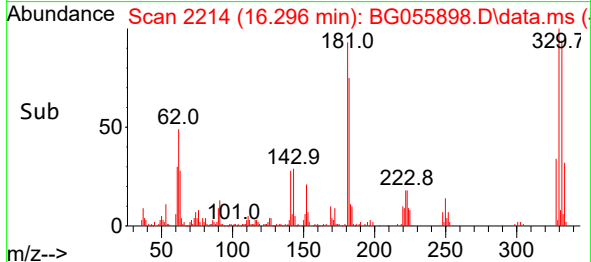
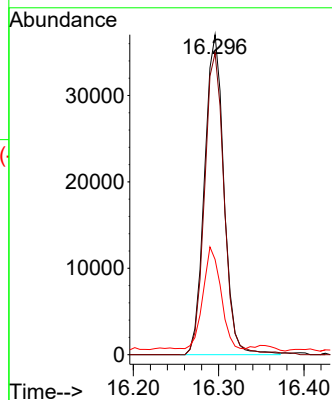
Tgt Ion:330 Resp: 58496

Ion Ratio Lower Upper

330 100

332 95.1 77.8 116.8

141 29.1 23.9 35.9



#45

2-Fluorobiphenyl

Concen: 26.929 ng

RT: 13.428 min Scan# 1726

Delta R.T. 0.000 min

Lab File: BG055898.D

Acq: 5 Dec 2022 23:57

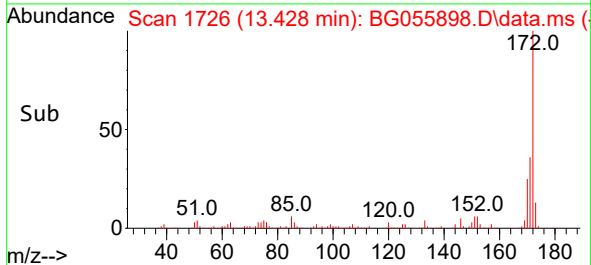
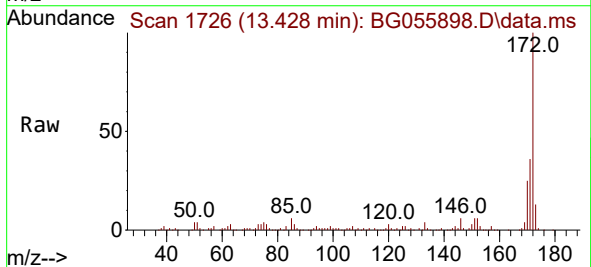
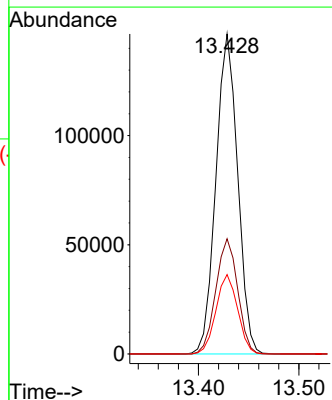
Tgt Ion:172 Resp: 220456

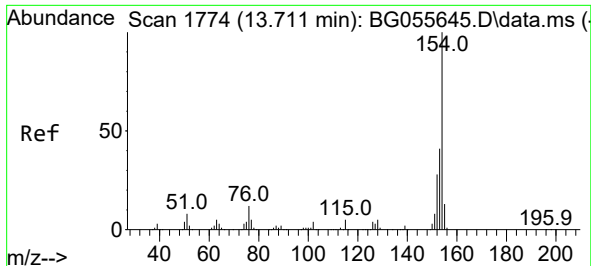
Ion Ratio Lower Upper

172 100

171 36.0 29.8 44.6

170 24.8 20.2 30.4

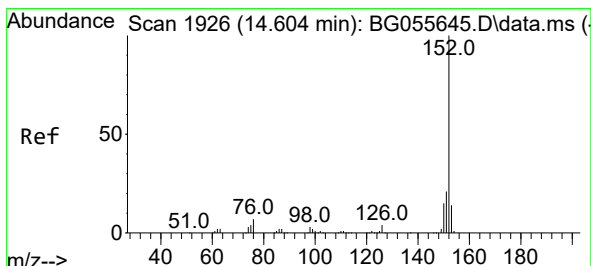
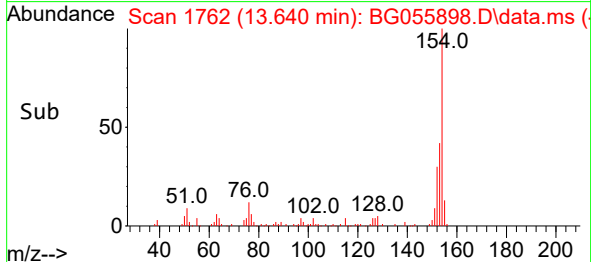
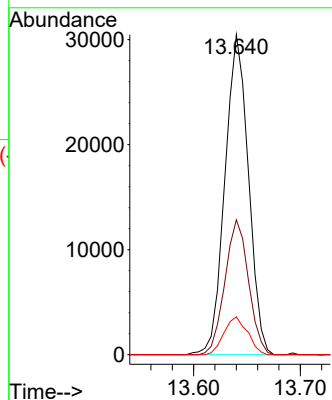
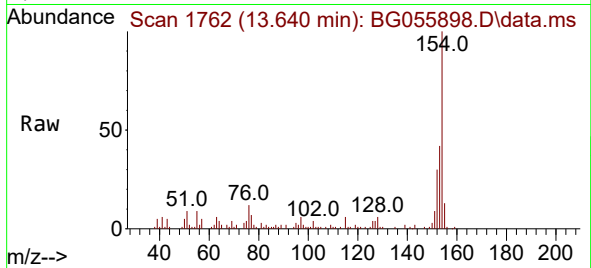




#46
1,1'-Biphenyl
Concen: 5.221 ng
RT: 13.640 min Scan# 11
Delta R.T. 0.000 min
Lab File: BG055898.D
Acq: 5 Dec 2022 23:57

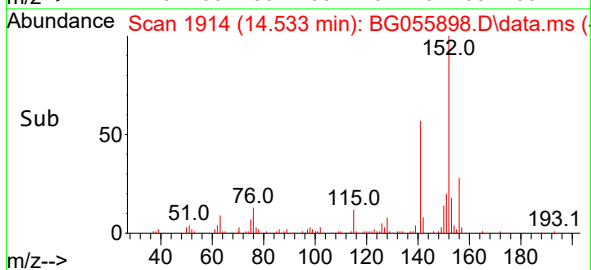
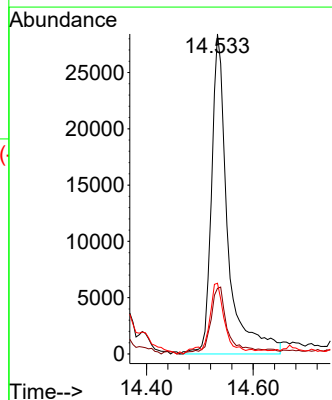
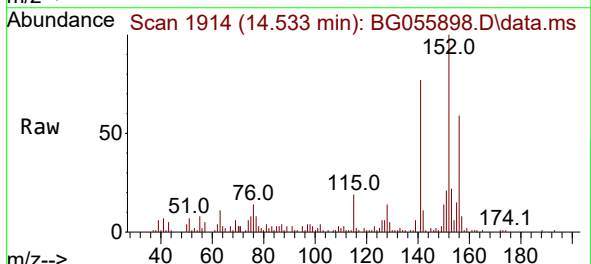
Instrument :
BNA_G
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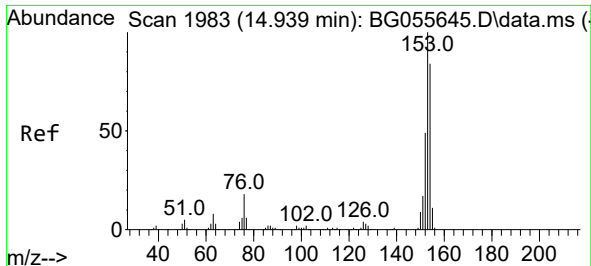
Tgt Ion:154 Resp: 46660
Ion Ratio Lower Upper
154 100
153 42.1 20.6 60.6
76 11.8 0.0 32.4



#49
Acenaphthylene
Concen: 5.275 ng
RT: 14.533 min Scan# 1914
Delta R.T. 0.000 min
Lab File: BG055898.D
Acq: 5 Dec 2022 23:57

Tgt Ion:152 Resp: 60340
Ion Ratio Lower Upper
152 100
151 20.5 16.4 24.6
153 22.1 11.0 16.4#

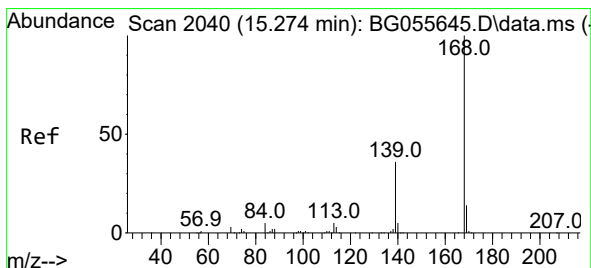
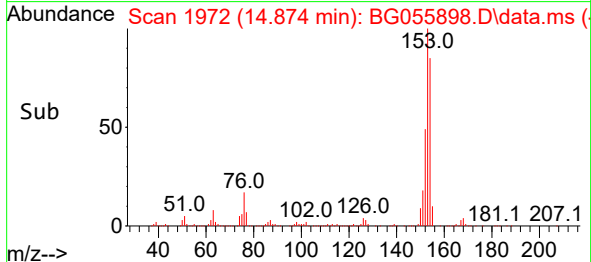
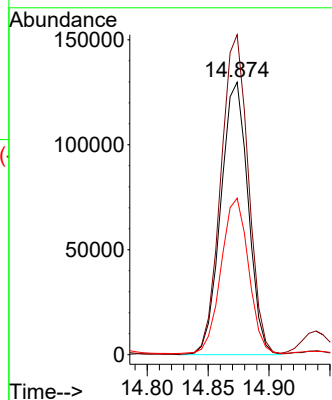
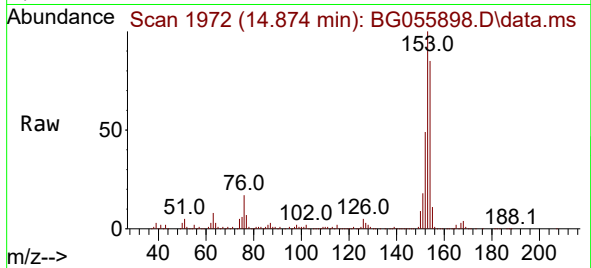




#52
Acenaphthene
Concen: 27.073 ng
RT: 14.874 min Scan# 1983
Delta R.T. 0.000 min
Lab File: BG055898.D
Acq: 5 Dec 2022 23:57

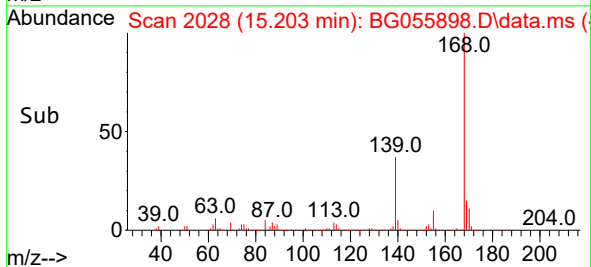
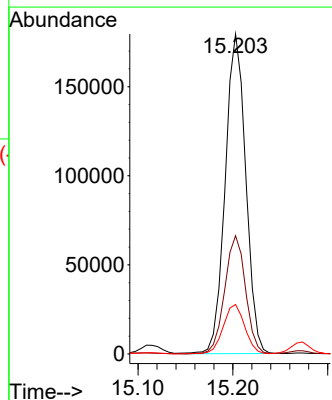
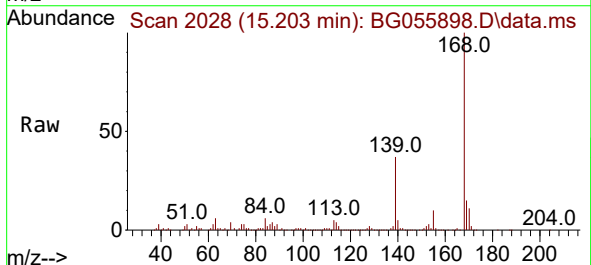
Instrument :
BNA_G
ClientSampleId :
TR-5-120222

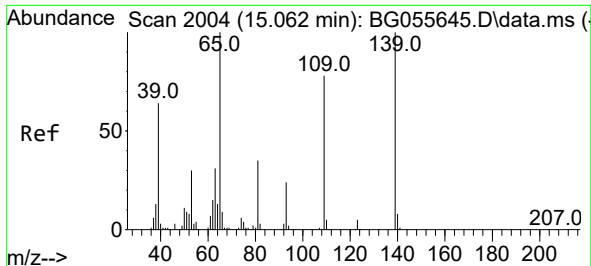
Tgt Ion:154 Resp: 202406
Ion Ratio Lower Upper
154 100
153 117.4 95.0 142.4
152 57.4 46.1 69.1



#55
Dibenzofuran
Concen: 23.397 ng
RT: 15.203 min Scan# 2028
Delta R.T. 0.000 min
Lab File: BG055898.D
Acq: 5 Dec 2022 23:57

Tgt Ion:168 Resp: 269857
Ion Ratio Lower Upper
168 100
139 36.9 28.8 43.2
169 15.5 11.0 16.4

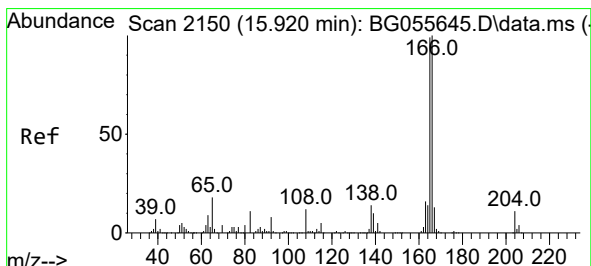
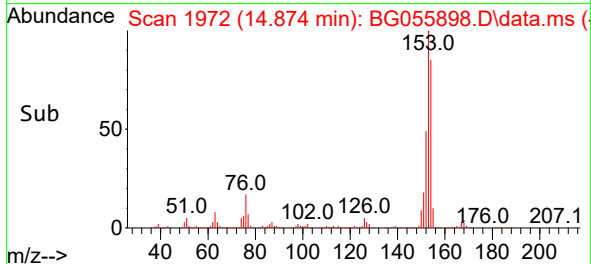
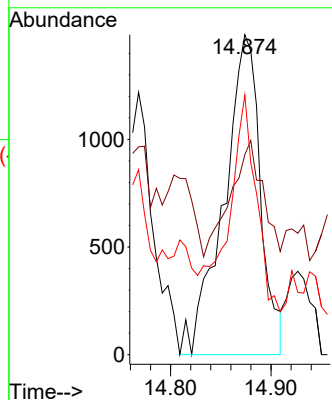
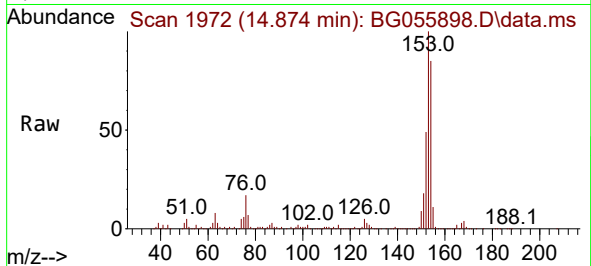




#56
4-Nitrophenol
Concen: 2.186 ng
RT: 14.874 min Scan# 11
Delta R.T. -0.152 min
Lab File: BG055898.D
Acq: 5 Dec 2022 23:57

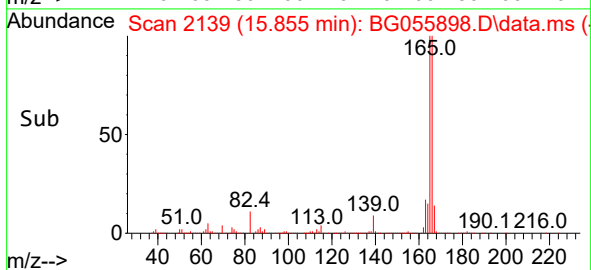
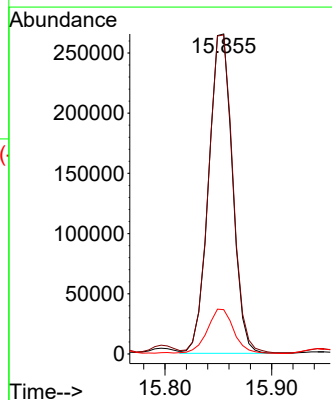
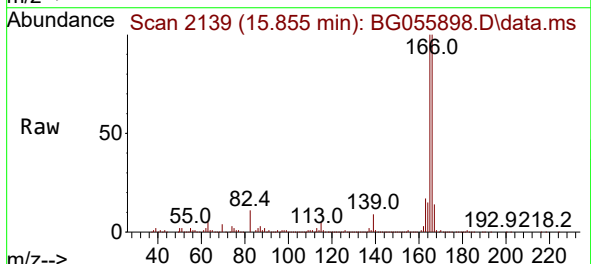
Instrument :
BNA_G
ClientSampleId :
TR-5-120222

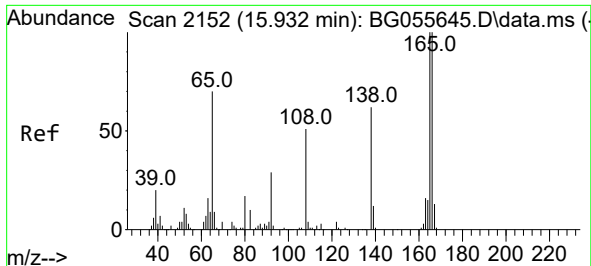
Tgt Ion:139 Resp: 3765
Ion Ratio Lower Upper
139 100
109 62.5 58.6 98.6
65 81.2 80.5 120.5



#58
Fluorene
Concen: 44.806 ng
RT: 15.855 min Scan# 2139
Delta R.T. 0.006 min
Lab File: BG055898.D
Acq: 5 Dec 2022 23:57

Tgt Ion:166 Resp: 412751
Ion Ratio Lower Upper
166 100
165 99.7 79.3 118.9
167 13.8 10.6 15.8

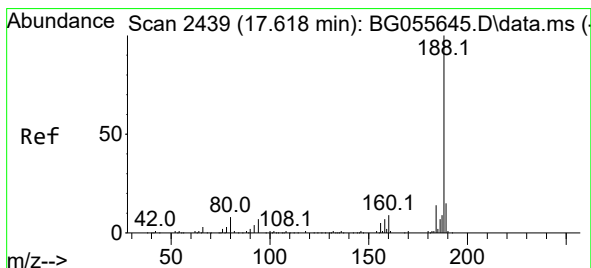
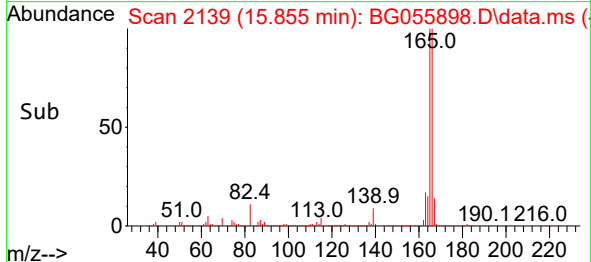
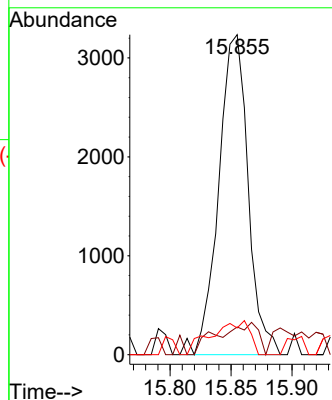
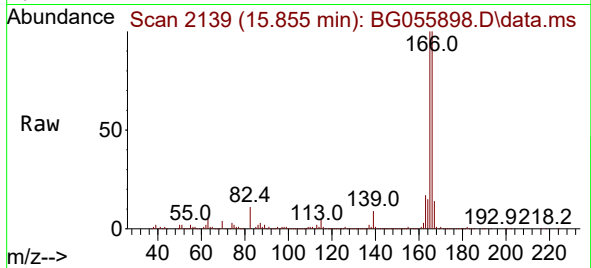




#62
4-Nitroaniline
Concen: 2.374 ng
RT: 15.855 min Scan# 2152
Delta R.T. -0.017 min
Lab File: BG055898.D
Acq: 5 Dec 2022 23:57

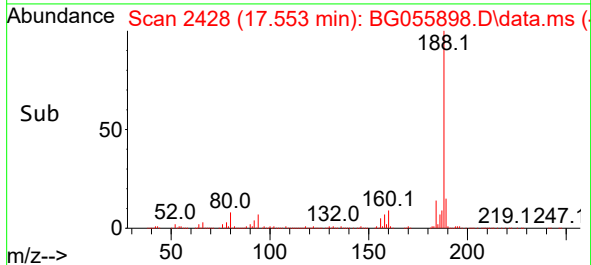
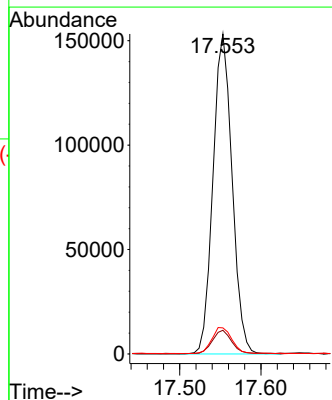
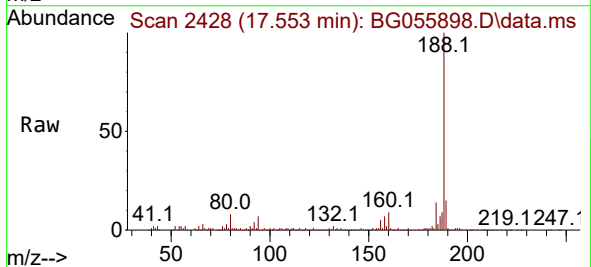
Instrument :
BNA_G
ClientSampleId :
TR-5-120222

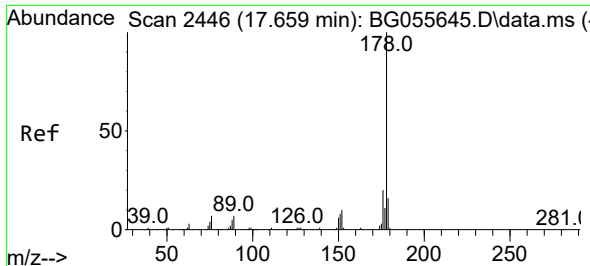
Tgt Ion:138 Resp: 5447
Ion Ratio Lower Upper
138 100
92 8.7 27.3 67.3#
108 8.3 62.8 102.8#



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.553 min Scan# 2428
Delta R.T. 0.006 min
Lab File: BG055898.D
Acq: 5 Dec 2022 23:57

Tgt Ion:188 Resp: 250286
Ion Ratio Lower Upper
188 100
94 7.4 5.4 8.2
80 8.2 6.6 10.0

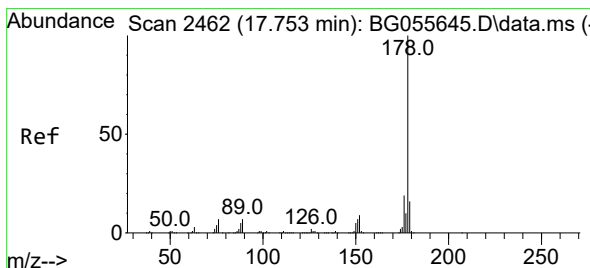
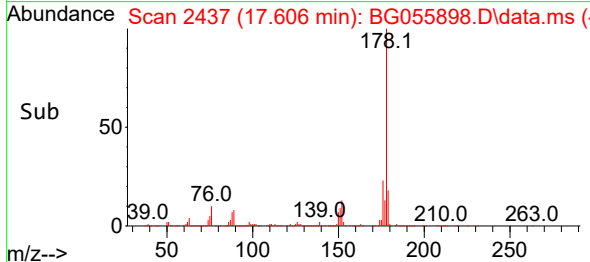
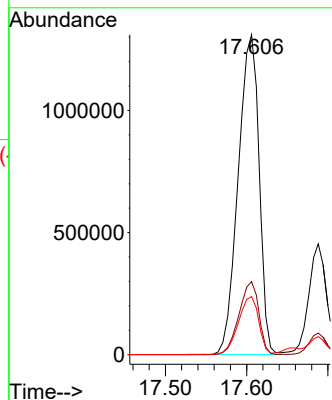
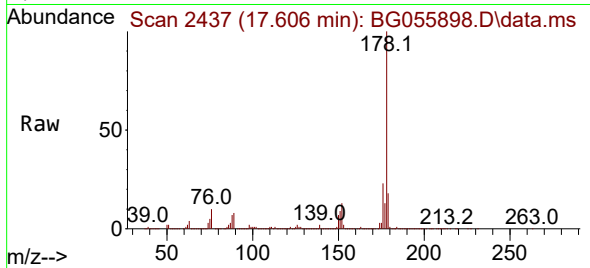




#71
Phenanthrene
Concen: 173.419 ng
RT: 17.606 min Scan# 2446
Delta R.T. 0.012 min
Lab File: BG055898.D
Acq: 5 Dec 2022 23:57

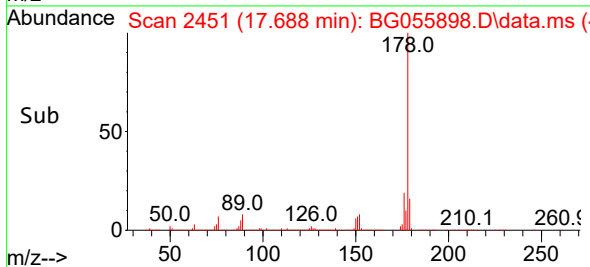
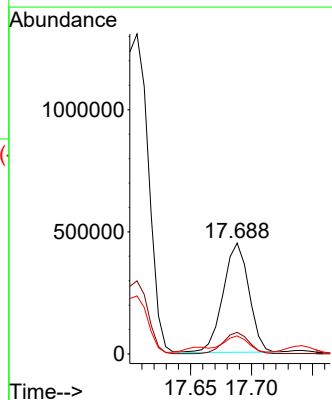
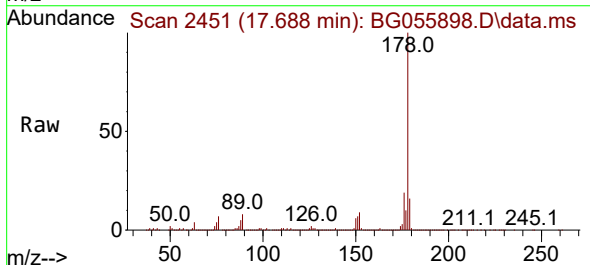
Instrument :
BNA_G
ClientSampleId :
TR-5-120222

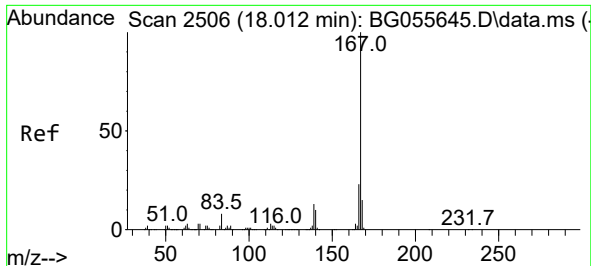
Tgt Ion:178 Resp: 2342289
Ion Ratio Lower Upper
178 100
176 22.9 16.0 24.0
179 18.2 12.7 19.1



#72
Anthracene
Concen: 50.357 ng
RT: 17.688 min Scan# 2451
Delta R.T. 0.006 min
Lab File: BG055898.D
Acq: 5 Dec 2022 23:57

Tgt Ion:178 Resp: 660838
Ion Ratio Lower Upper
178 100
176 19.5 15.5 23.3
179 16.4 12.5 18.7

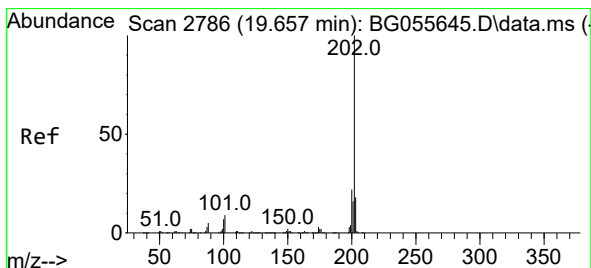
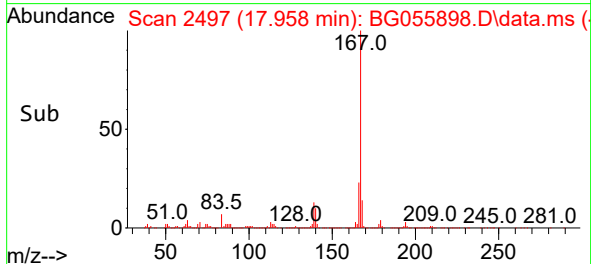
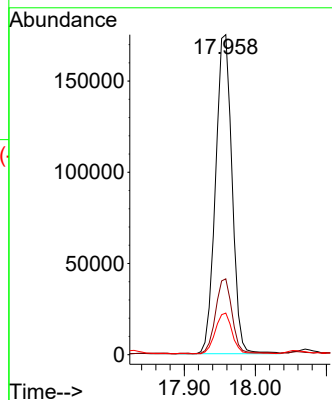
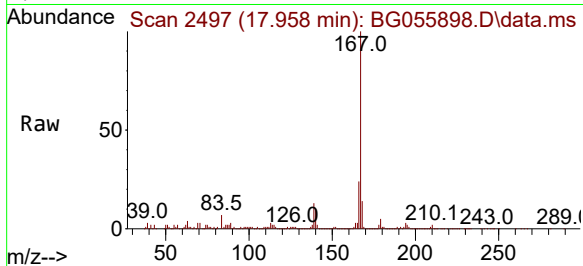




#73
 Carbazole
 Concen: 23.850 ng
 RT: 17.958 min Scan# 24
 Delta R.T. 0.006 min
 Lab File: BG055898.D
 Acq: 5 Dec 2022 23:57

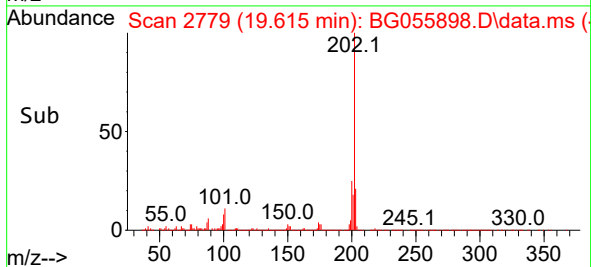
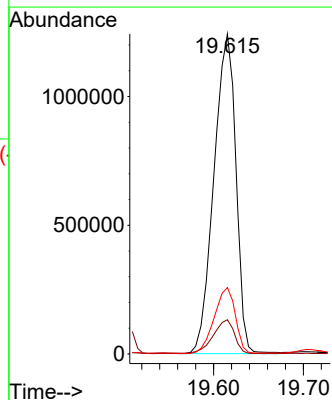
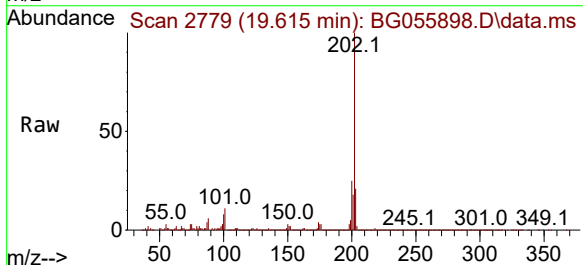
Instrument :
 BNA_G
 ClientSampleId :
 TR-5-120222

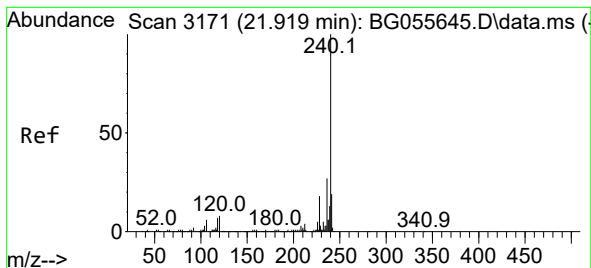
Tgt Ion:167 Resp: 281371
 Ion Ratio Lower Upper
 167 100
 166 23.7 18.2 27.2
 139 13.0 10.2 15.4



#75
 Fluoranthene
 Concen: 128.642 ng
 RT: 19.615 min Scan# 2779
 Delta R.T. 0.024 min
 Lab File: BG055898.D
 Acq: 5 Dec 2022 23:57

Tgt Ion:202 Resp: 2113792
 Ion Ratio Lower Upper
 202 100
 101 10.7 0.0 28.8
 203 20.7 0.0 38.1





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.848 min Scan# 3171

Delta R.T. 0.012 min

Lab File: BG055898.D

Acq: 5 Dec 2022 23:57

Instrument :

BNA_G

ClientSampleId :

TR-5-120222

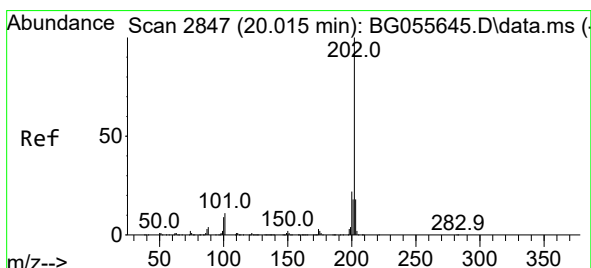
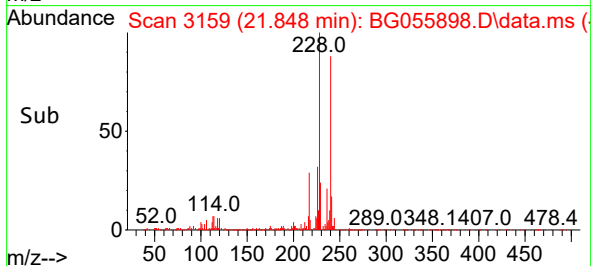
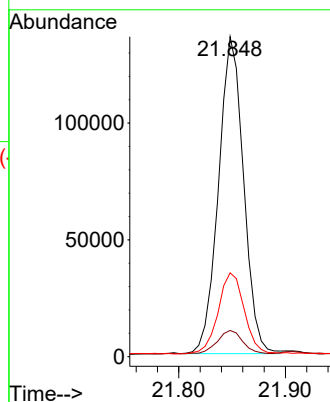
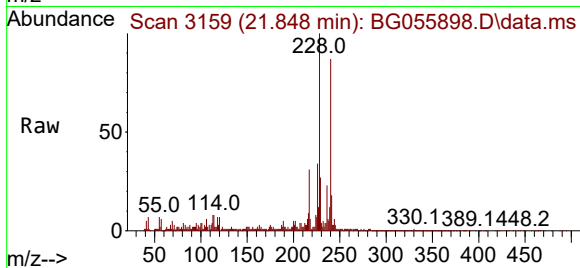
Tgt Ion:240 Resp: 221355

Ion Ratio Lower Upper

240 100

120 8.2 6.3 9.5

236 26.2 21.9 32.9



#78

Pyrene

Concen: 141.078 ng

RT: 19.615 min Scan# 2779

Delta R.T. -0.335 min

Lab File: BG055898.D

Acq: 5 Dec 2022 23:57

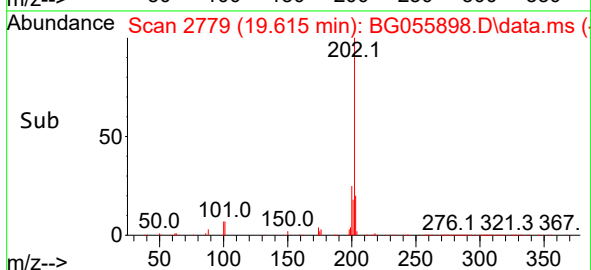
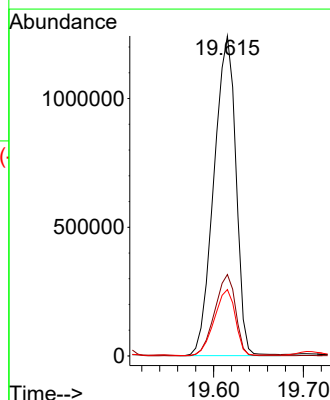
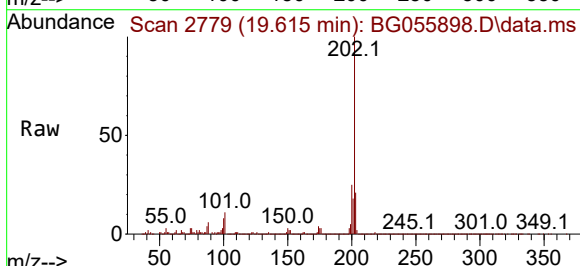
Tgt Ion:202 Resp: 2113792

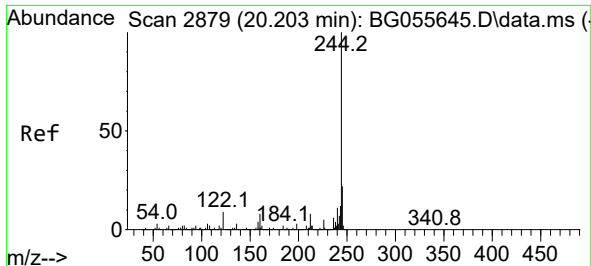
Ion Ratio Lower Upper

202 100

200 25.5 17.8 26.6

203 20.7 14.4 21.6

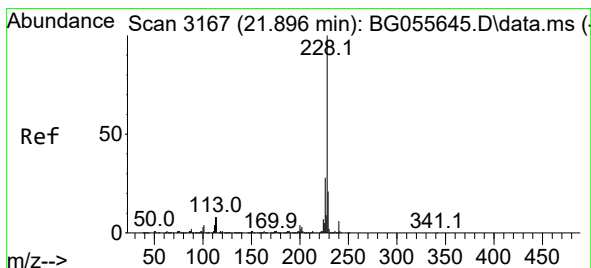
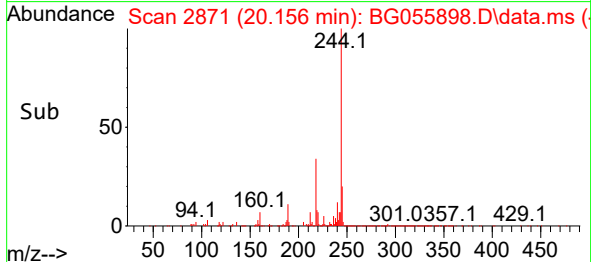
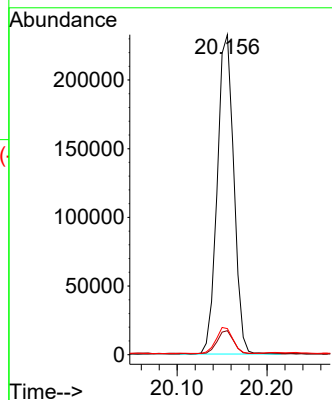
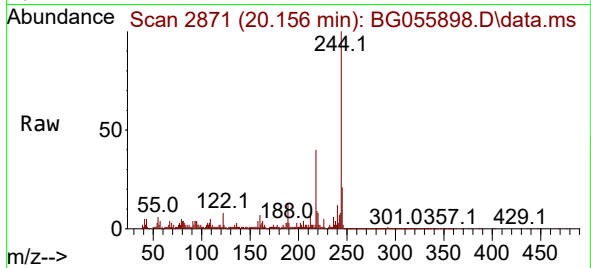




#79
 Terphenyl-d14
 Concen: 26.881 ng
 RT: 20.156 min Scan# 21
 Delta R.T. 0.018 min
 Lab File: BG055898.D
 Acq: 5 Dec 2022 23:57

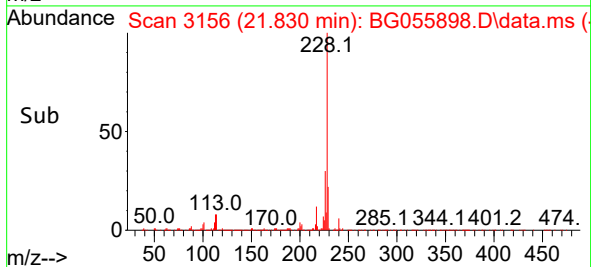
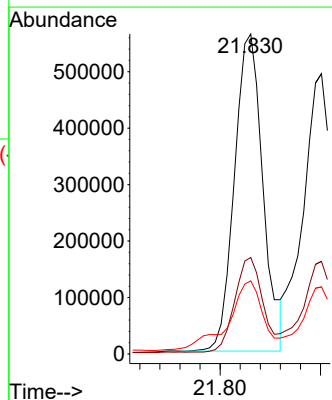
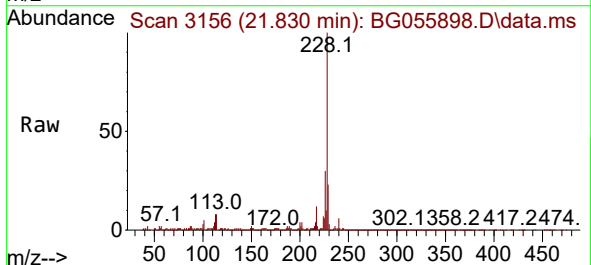
Instrument :
 BNA_G
 ClientSampleId :
 TR-5-120222

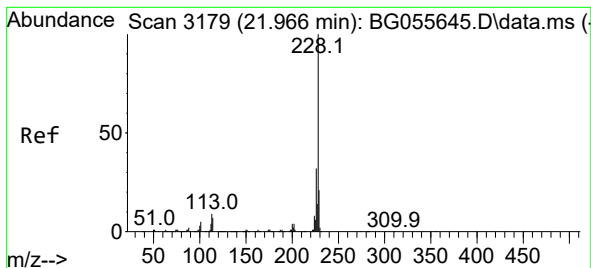
Tgt Ion:244 Resp: 297493
 Ion Ratio Lower Upper
 244 100
 212 7.5 6.3 9.5
 122 8.2 6.9 10.3



#81
 Benzo(a)anthracene
 Concen: 72.495 ng
 RT: 21.830 min Scan# 3156
 Delta R.T. 0.018 min
 Lab File: BG055898.D
 Acq: 5 Dec 2022 23:57

Tgt Ion:228 Resp: 1105264
 Ion Ratio Lower Upper
 228 100
 226 30.1 22.7 34.1
 229 22.9 16.5 24.7





#83

Chrysene

Concen: 66.187 ng

RT: 21.901 min Scan# 31

Delta R.T. 0.018 min

Lab File: BG055898.D

Acq: 5 Dec 2022 23:57

Instrument :

BNA_G

ClientSampleId :

TR-5-120222

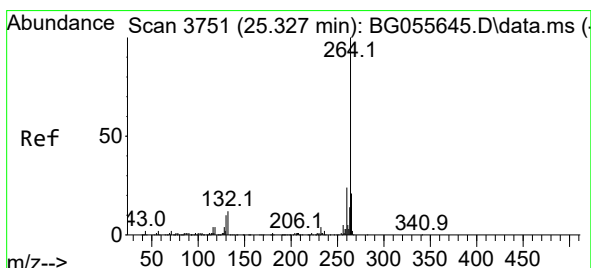
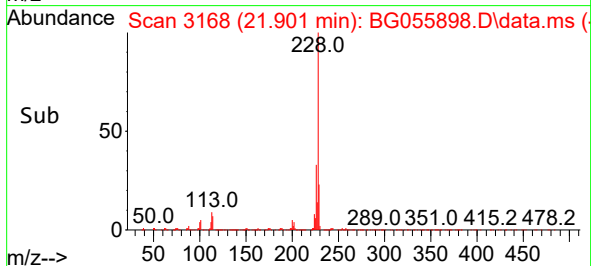
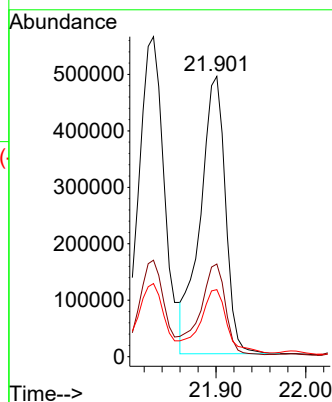
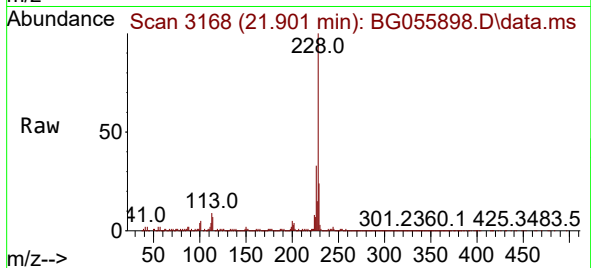
Tgt Ion:228 Resp: 960648

Ion Ratio Lower Upper

228 100

226 33.0 25.4 38.2

229 23.9 17.1 25.7



#86

Perylene-d12

Concen: 20.000 ng

RT: 25.209 min Scan# 3731

Delta R.T. 0.030 min

Lab File: BG055898.D

Acq: 5 Dec 2022 23:57

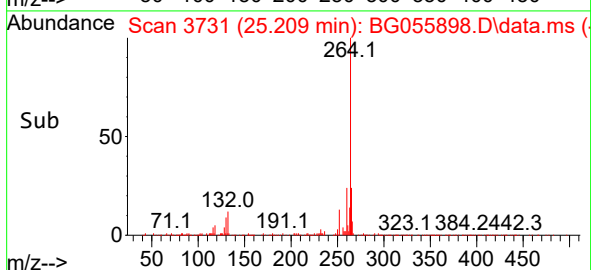
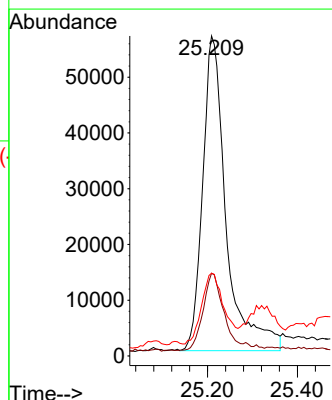
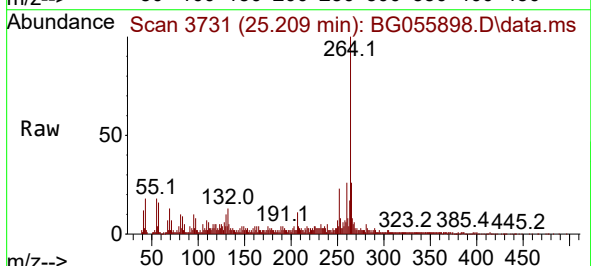
Tgt Ion:264 Resp: 205003

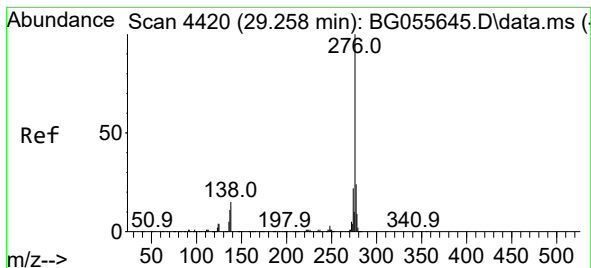
Ion Ratio Lower Upper

264 100

260 25.8 19.5 29.3

265 25.9 17.1 25.7#





#87

Indeno(1,2,3-cd)pyrene

Concen: 13.783 ng

RT: 29.081 min Scan# 41

Delta R.T. 0.024 min

Lab File: BG055898.D

Acq: 5 Dec 2022 23:57

Instrument :

BNA_G

ClientSampleId :

TR-5-120222

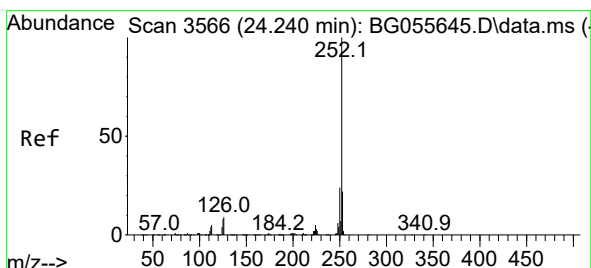
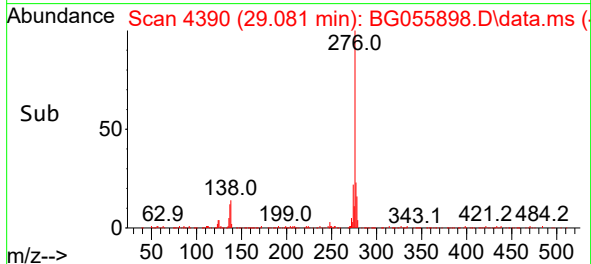
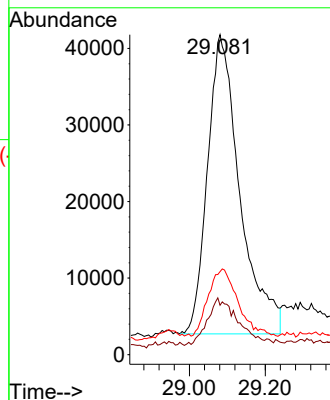
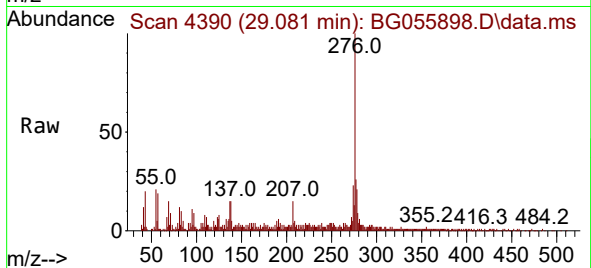
Tgt Ion:276 Resp: 231483

Ion Ratio Lower Upper

276 100

138 14.9 10.4 15.6

277 21.0 20.2 30.4



#88

Benzo(b)fluoranthene

Concen: 70.864 ng

RT: 24.145 min Scan# 3550

Delta R.T. 0.030 min

Lab File: BG055898.D

Acq: 5 Dec 2022 23:57

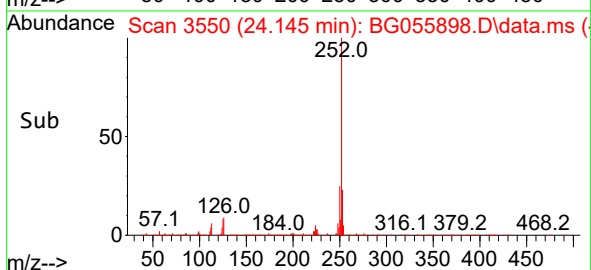
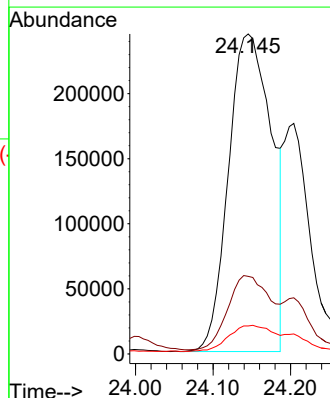
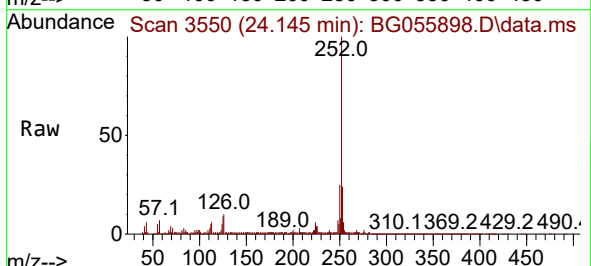
Tgt Ion:252 Resp: 946104

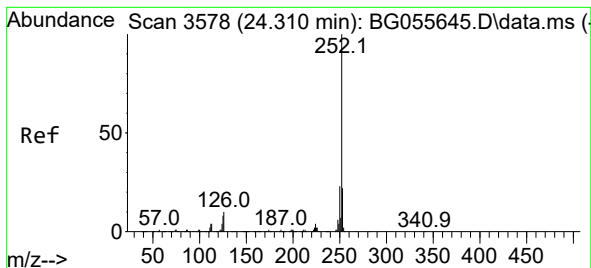
Ion Ratio Lower Upper

252 100

253 24.2 18.0 27.0

125 8.7 6.2 9.2





#89

Benzo(k)fluoranthene

Concen: 71.092 ng

RT: 24.145 min Scan# 3

Delta R.T. -0.041 min

Lab File: BG055898.D

Acq: 5 Dec 2022 23:57

Instrument :

BNA_G

ClientSampleId :

TR-5-120222

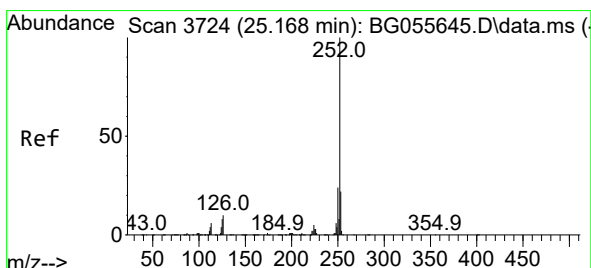
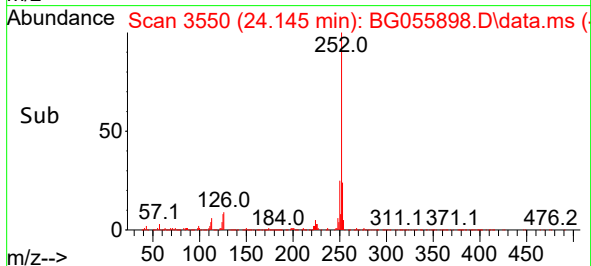
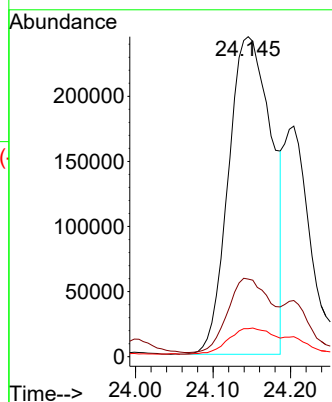
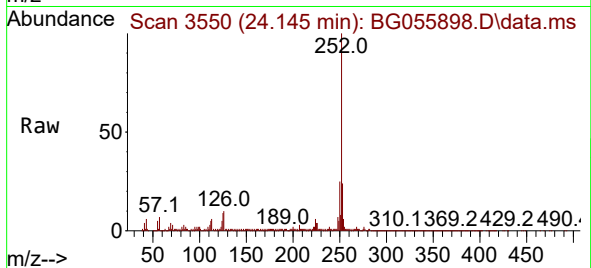
Tgt Ion:252 Resp: 946104

Ion Ratio Lower Upper

252 100

253 24.2 17.8 26.6

125 8.7 6.1 9.1



#90

Benzo(a)pyrene

Concen: 66.578 ng

RT: 25.056 min Scan# 3705

Delta R.T. 0.030 min

Lab File: BG055898.D

Acq: 5 Dec 2022 23:57

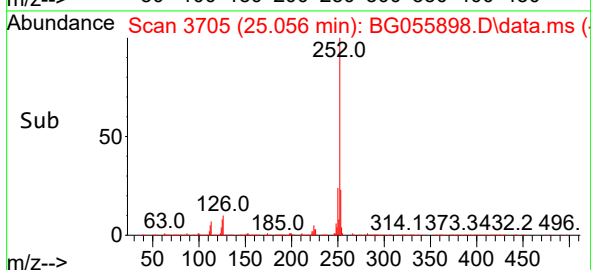
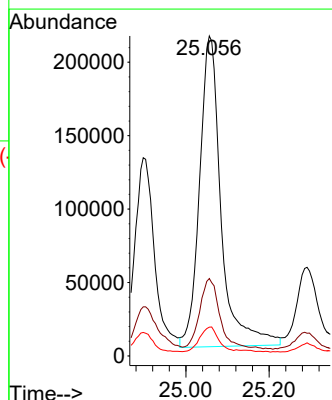
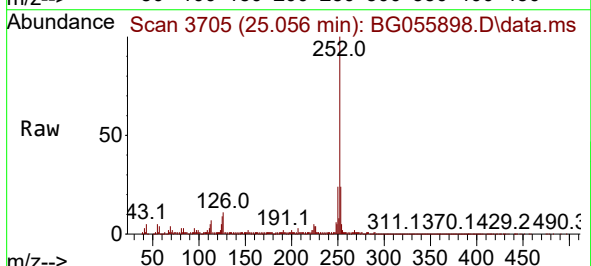
Tgt Ion:252 Resp: 762773

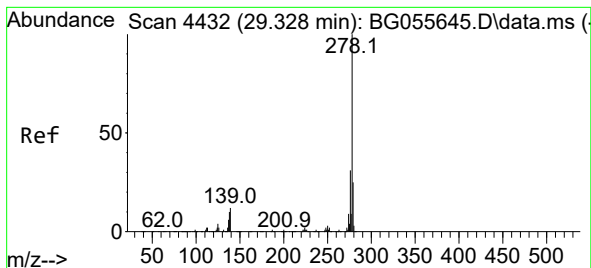
Ion Ratio Lower Upper

252 100

253 24.2 17.8 26.6

125 9.0 6.4 9.6





#91

Dibenzo(a,h)anthracene

Concen: 4.508 ng

RT: 29.122 min Scan# 41

Delta R.T. 0.012 min

Lab File: BG055898.D

Acq: 5 Dec 2022 23:57

Instrument :

BNA_G

ClientSampleId :

TR-5-120222

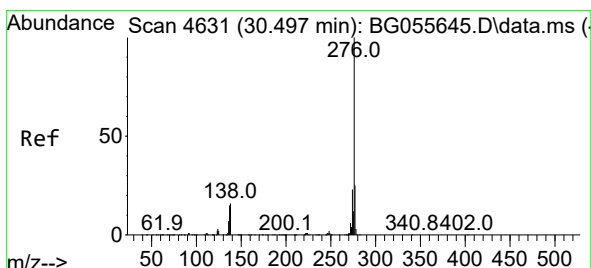
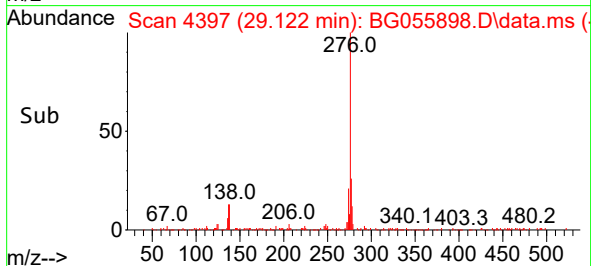
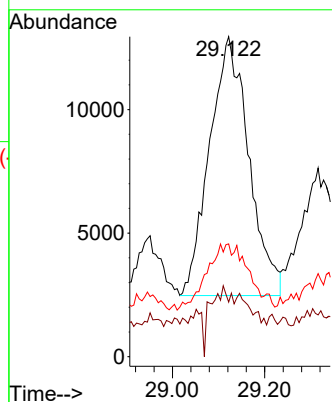
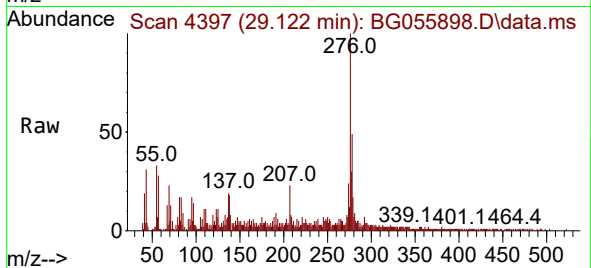
Tgt Ion:278 Resp: 61874

Ion Ratio Lower Upper

278 100

139 17.0 9.8 14.8#

279 35.2 19.8 29.6#



#92

Benzo(g,h,i)perylene

Concen: 14.325 ng

RT: 30.303 min Scan# 4598

Delta R.T. 0.036 min

Lab File: BG055898.D

Acq: 5 Dec 2022 23:57

Tgt Ion:276 Resp: 198150

Ion Ratio Lower Upper

276 100

277 26.7 19.8 29.6

138 17.5 13.1 19.7

