

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG052523\
 Data File : BG057571.D
 Acq On : 26 May 2023 00:01
 Operator : CG/JU
 Sample : 02940-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 RBR-251671

Quant Time: May 26 03:02:40 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG042723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 26 02:58:05 2023
 Response via : Initial Calibration

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

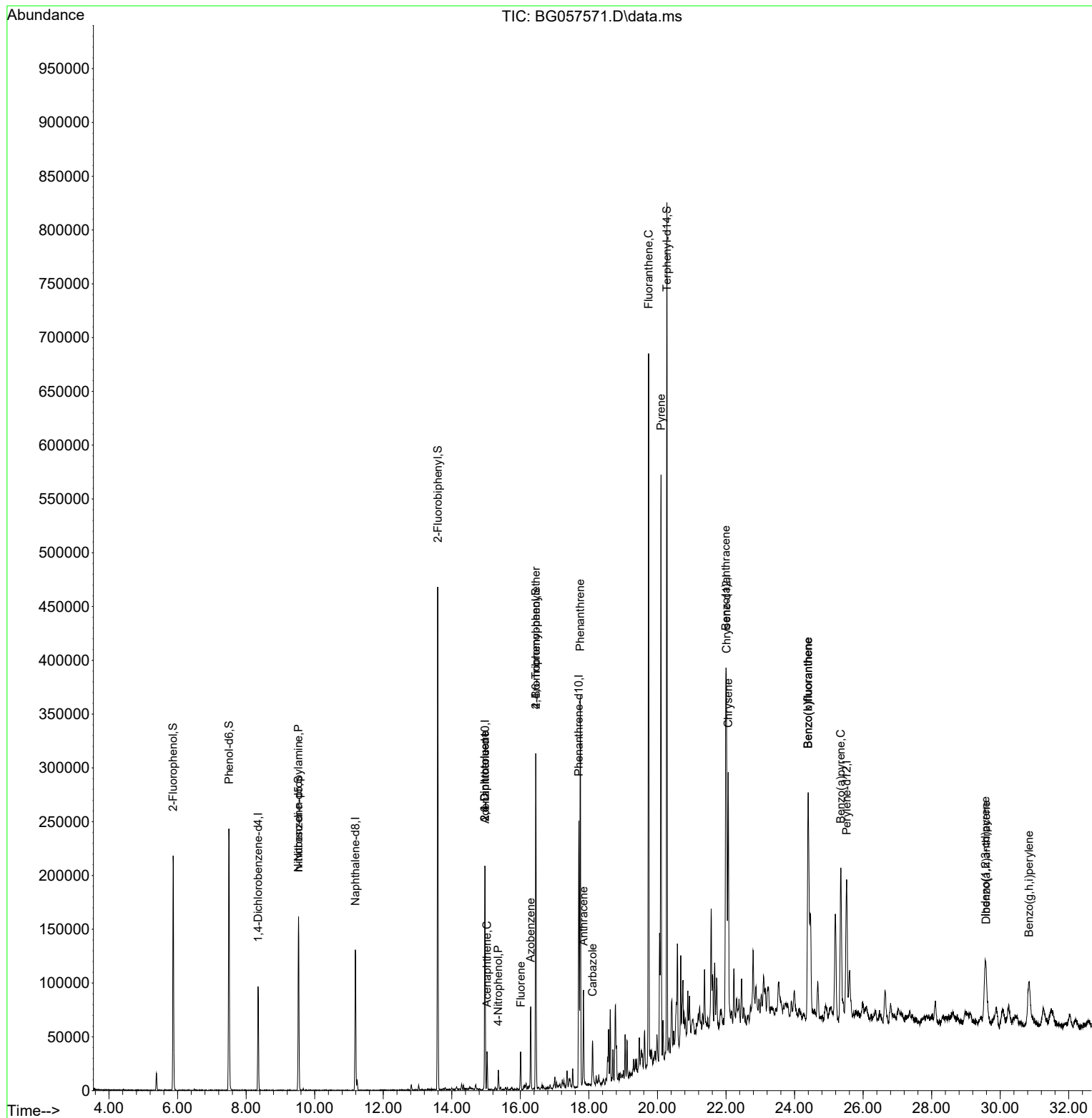
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.349	152	27687	20.000	ng	0.00
21) Naphthalene-d8	11.186	136	110998	20.000	ng	0.00
39) Acenaphthene-d10	14.969	164	75708	20.000	ng	0.00
64) Phenanthrene-d10	17.707	188	164680	20.000	ng	0.00
76) Chrysene-d12	22.013	240	142983	20.000	ng	0.00
86) Perylene-d12	25.520	264	154431	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.870	112	100041	61.809	ng	0.00
7) Phenol-d6	7.497	99	154706	62.944	ng	0.00
23) Nitrobenzene-d5	9.529	82	103679	39.203	ng	0.00
42) 2,4,6-Tribromophenol	16.450	330	62750	58.415	ng	0.00
45) 2-Fluorobiphenyl	13.589	172	250061	44.484	ng	0.00
79) Terphenyl-d14	20.274	244	388151	44.301	ng	0.00
Target Compounds					Qvalue	
9) Benzaldehyde	7.485	77	141	Below Cal	#	4
19) n-Nitroso-di-n-propyla...	9.529	70	14373	7.669 ng	#	83
51) 2,6-Dinitrotoluene	14.963	165	10639	8.376 ng	#	20
52) Acenaphthene	15.028	154	13341	3.146 ng		96
56) 4-Nitrophenol	15.357	139	4222	4.988 ng	#	1
57) 2,4-Dinitrotoluene	14.963	165	10639	5.860 ng	#	23
58) Fluorene	16.009	166	17057	2.906 ng		93
63) Azobenzene	16.303	77	21456	3.520 ng	#	1
67) 4-Bromophenyl-phenylether	16.450	248	4369	2.173 ng	#	1
71) Phenanthrene	17.748	178	233965	27.726 ng		100
72) Anthracene	17.842	178	58505	6.757 ng		99
73) Carbazole	18.106	167	26121	3.583 ng		99
75) Fluoranthene	19.739	202	433663	41.320 ng		98
78) Pyrene	20.103	202	365185	35.148 ng		98
81) Benzo(a)anthracene	21.995	228	192938	18.940 ng		97
83) Chrysene	22.065	228	189135	19.733 ng		97
87) Indeno(1,2,3-cd)pyrene	29.567	276	106586	9.470 ng		98
88) Benzo(b)fluoranthene	24.398	252	249716	24.736 ng	#	97
89) Benzo(k)fluoranthene	24.398	252	249716	24.343 ng	#	98
90) Benzo(a)pyrene	25.349	252	169364	17.173 ng		98
91) Dibenzo(a,h)anthracene	29.591	278	27513	2.935 ng	#	94
92) Benzo(g,h,i)perylene	30.842	276	105575	11.535 ng		99

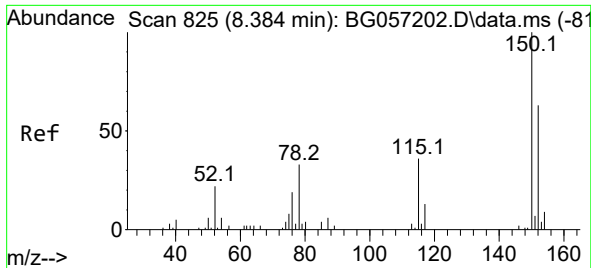
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
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Quant Time: May 26 03:02:40 2023
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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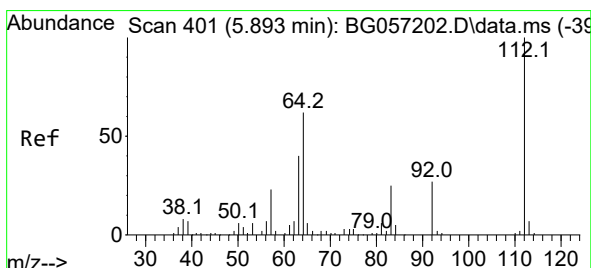
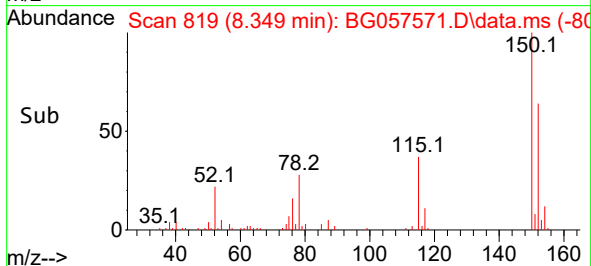
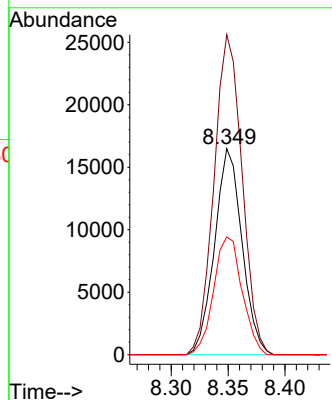
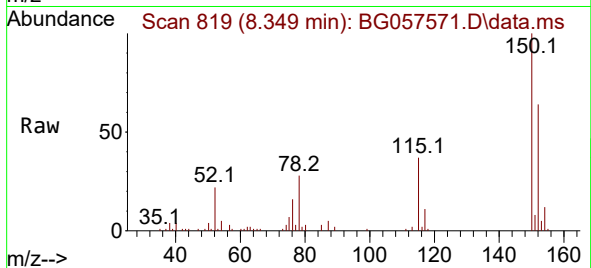




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.349 min Scan# 81
Delta R.T. -0.002 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

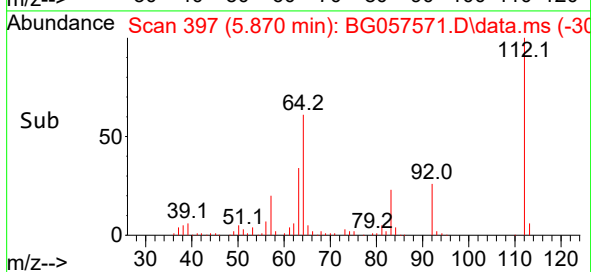
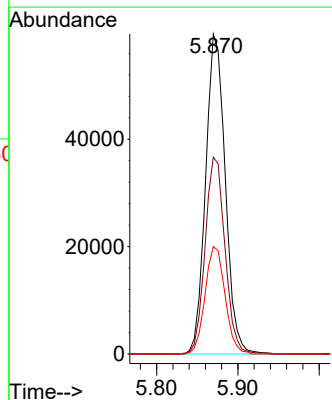
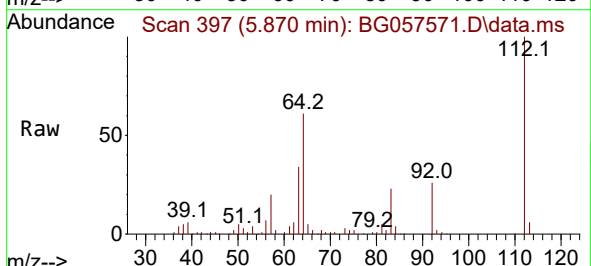
Instrument :
BNA_G
ClientSampleId :
RBR-251671

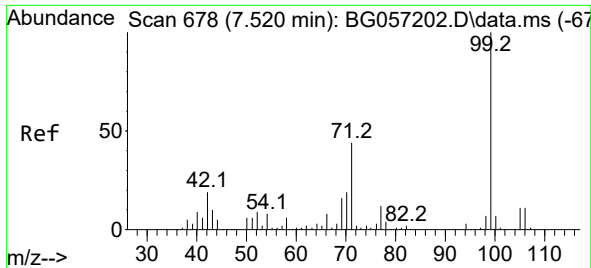
Tgt Ion:152 Resp: 27687
Ion Ratio Lower Upper
152 100
150 155.2 126.2 189.4
115 57.2 45.0 67.4



#5
2-Fluorophenol
Concen: 61.809 ng
RT: 5.870 min Scan# 397
Delta R.T. -0.003 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

Tgt Ion:112 Resp: 100041
Ion Ratio Lower Upper
112 100
64 61.5 49.4 74.2
63 33.6 31.6 47.4

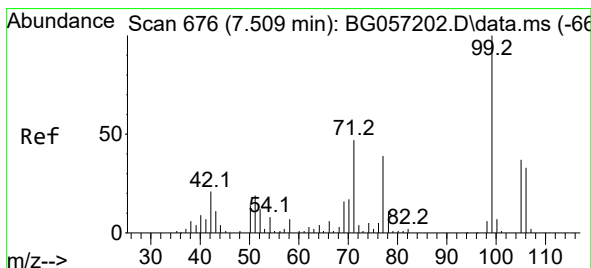
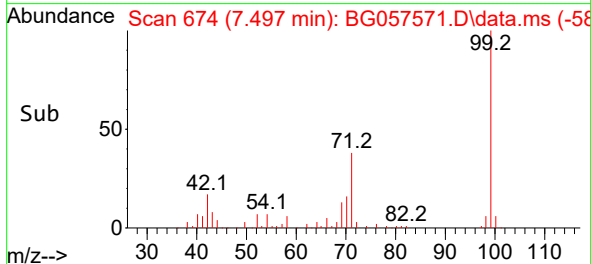
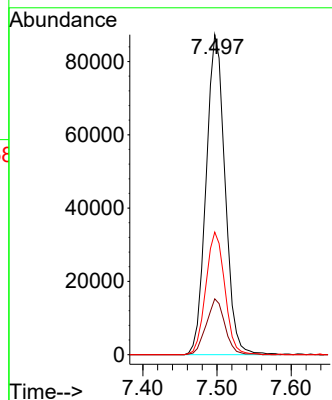
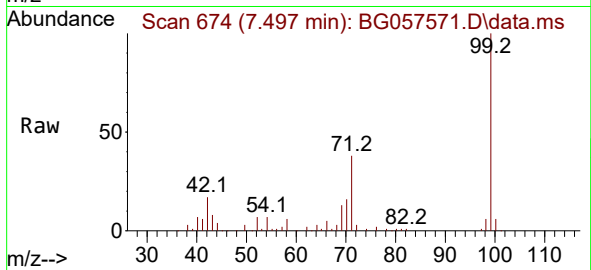




#7
Phenol-d6
Concen: 62.944 ng
RT: 7.497 min Scan# 61
Delta R.T. -0.003 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

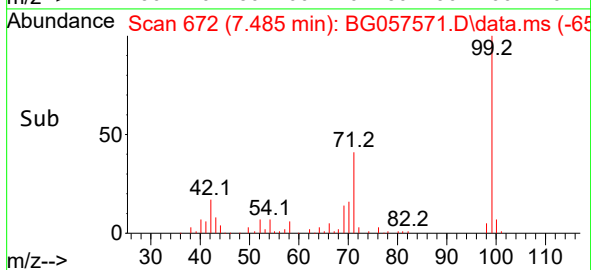
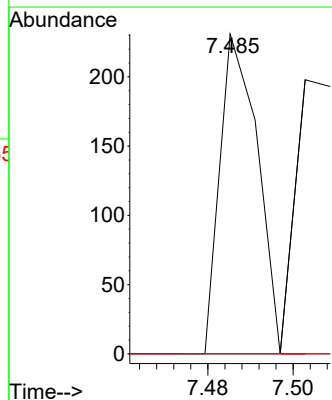
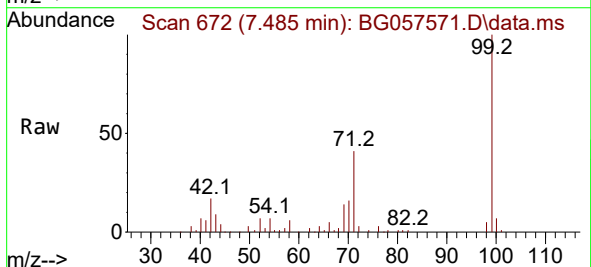
Instrument :
BNA_G
ClientSampleId :
RBR-251671

Tgt Ion: 99 Resp: 154706
Ion Ratio Lower Upper
99 100
42 17.5 15.1 22.7
71 38.3 35.2 52.8



#9
Benzaldehyde
Concen: Below Cal
RT: 7.485 min Scan# 672
Delta R.T. 0.003 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

Tgt Ion: 77 Resp: 141
Ion Ratio Lower Upper
77 100
105 0.0 74.6 114.6#
106 0.0 66.3 106.3#

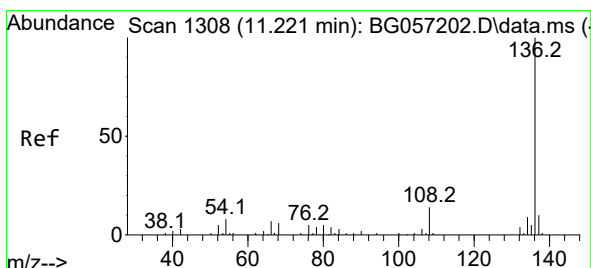
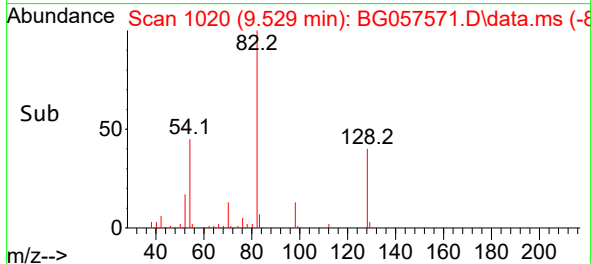
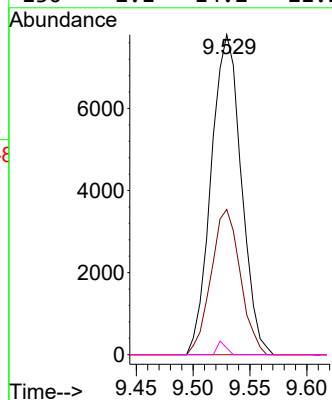
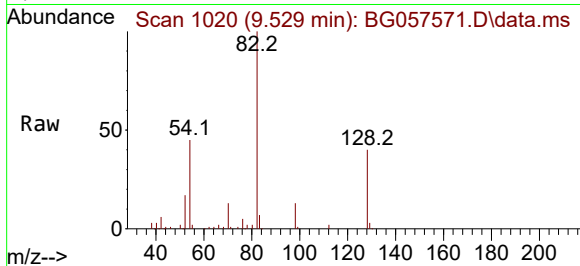




#19
n-Nitroso-di-n-propylamine
Concen: 7.669 ng
RT: 9.529 min Scan# 1020
Delta R.T. 0.373 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

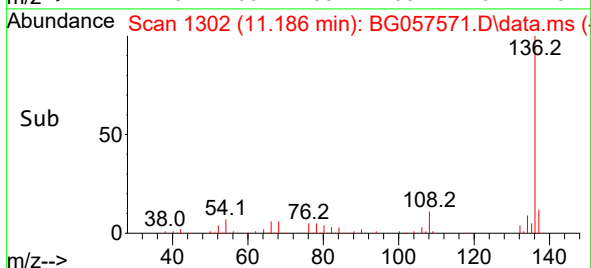
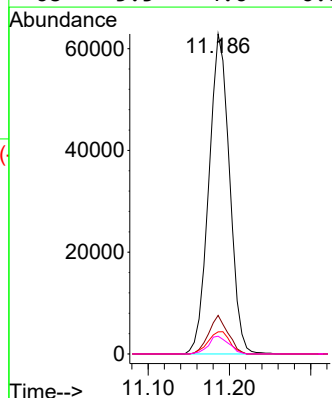
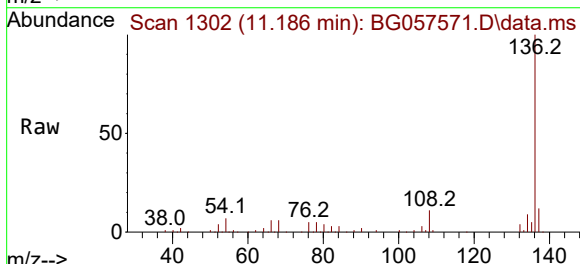
Instrument :
BNA_G
ClientSampleId :
RBR-251671

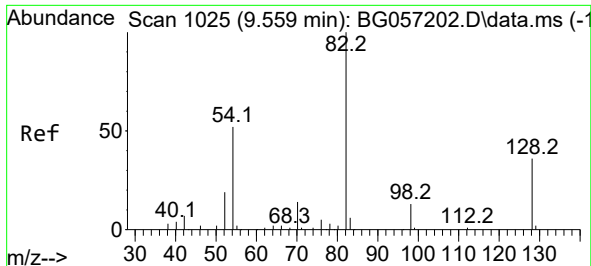
Tgt Ion:	70	Resp:	14373
Ion	Ratio	Lower	Upper
70	100		
42	45.4	41.8	62.8
101	0.0	6.8	10.2#
130	2.1	14.2	21.2#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.186 min Scan# 1302
Delta R.T. -0.008 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

Tgt Ion:	136	Resp:	110998
Ion	Ratio	Lower	Upper
136	100		
137	12.0	8.3	12.5
54	6.9	6.7	10.1
68	5.5	4.6	6.8





#23

Nitrobenzene-d5

Concen: 39.203 ng

RT: 9.529 min Scan# 1020

Delta R.T. -0.008 min

Lab File: BG057571.D

Acq: 26 May 2023 00:01

Instrument :

BNA_G

ClientSampleId :

RBR-251671

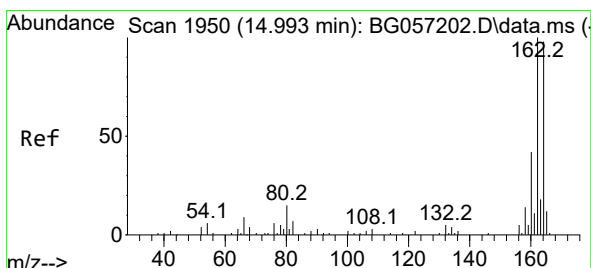
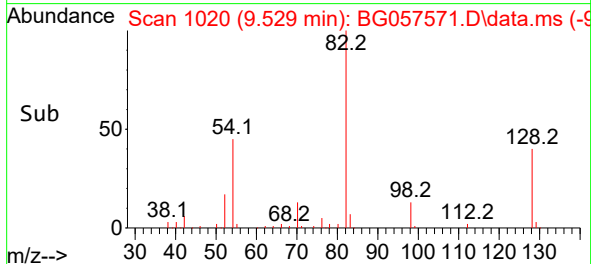
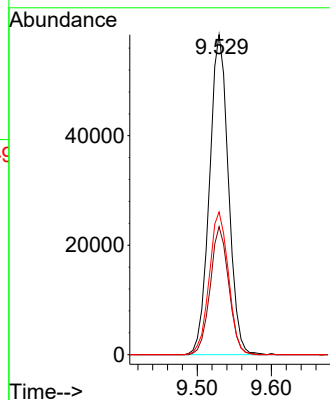
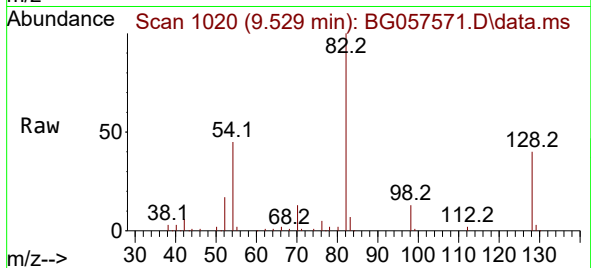
Tgt Ion: 82 Resp: 103679

Ion Ratio Lower Upper

82 100

128 40.0 29.0 43.4

54 44.6 41.4 62.0



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.969 min Scan# 1946

Delta R.T. -0.003 min

Lab File: BG057571.D

Acq: 26 May 2023 00:01

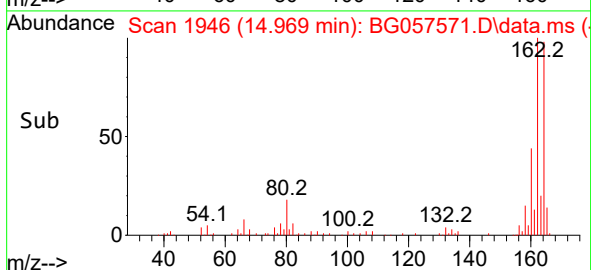
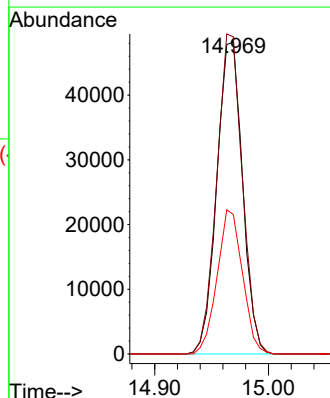
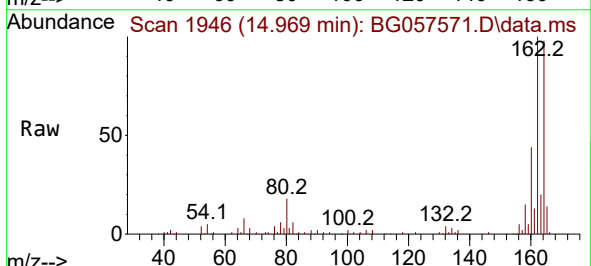
Tgt Ion:164 Resp: 75708

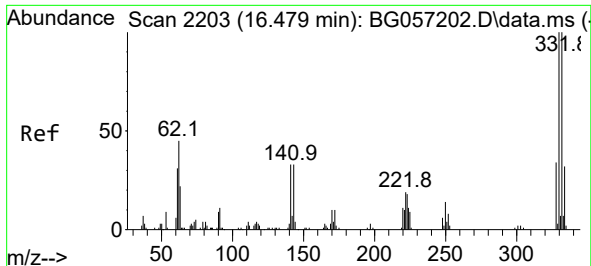
Ion Ratio Lower Upper

164 100

162 101.6 81.8 122.6

160 44.7 34.6 52.0

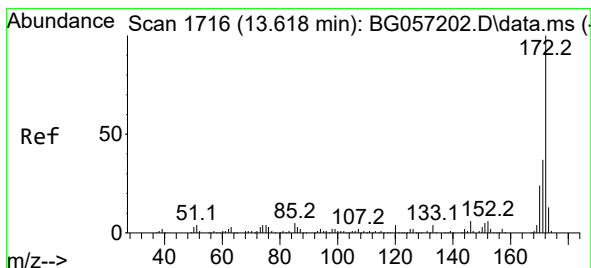
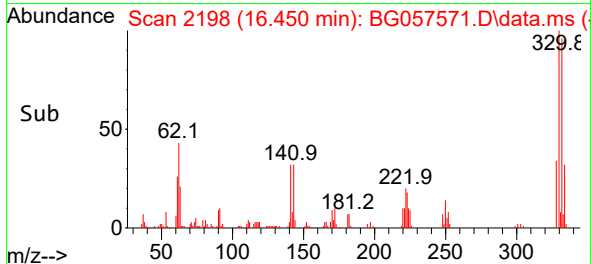
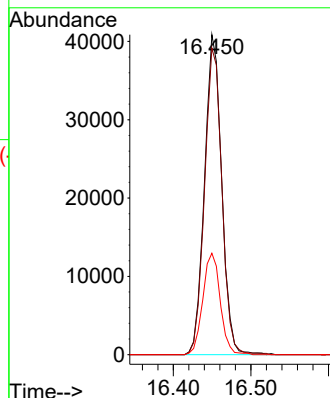
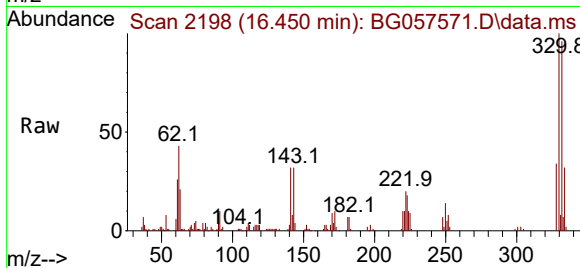




#42
2,4,6-Tribromophenol
Concen: 58.415 ng
RT: 16.450 min Scan# 21198
Delta R.T. -0.008 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

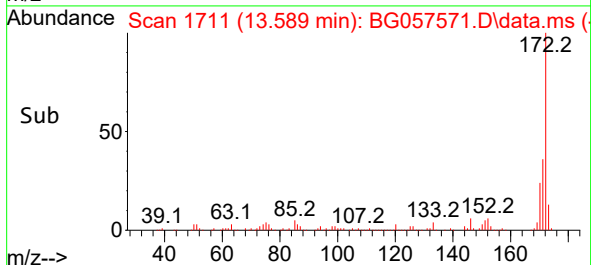
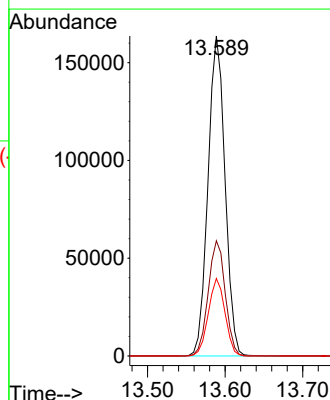
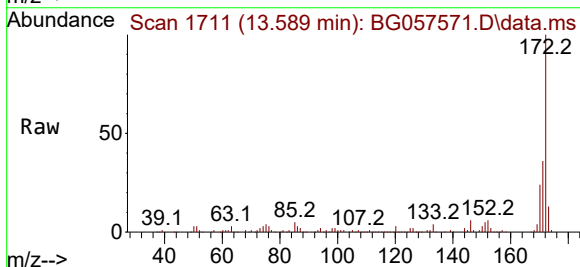
Instrument :
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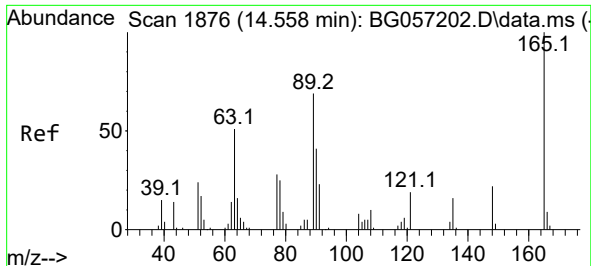
Tgt Ion:330 Resp: 62750
Ion Ratio Lower Upper
330 100
332 96.7 78.2 117.2
141 32.2 27.8 41.8



#45
2-Fluorobiphenyl
Concen: 44.484 ng
RT: 13.589 min Scan# 1711
Delta R.T. -0.008 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

Tgt Ion:172 Resp: 250061
Ion Ratio Lower Upper
172 100
171 36.0 29.4 44.0
170 24.2 19.0 28.6

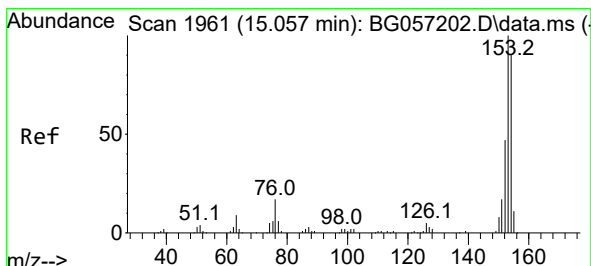
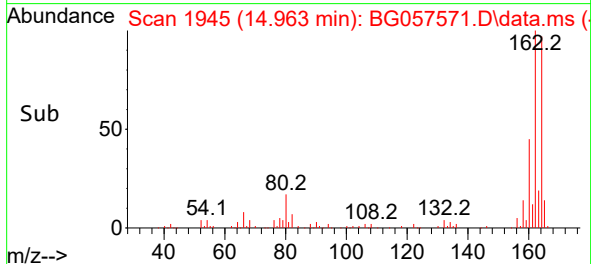
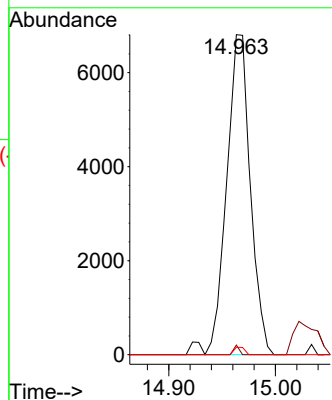
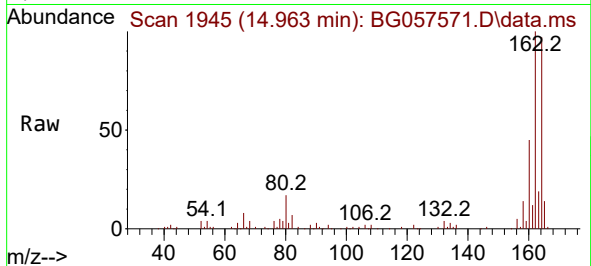




#51
2,6-Dinitrotoluene
Concen: 8.376 ng
RT: 14.963 min Scan# 1945
Delta R.T. 0.420 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

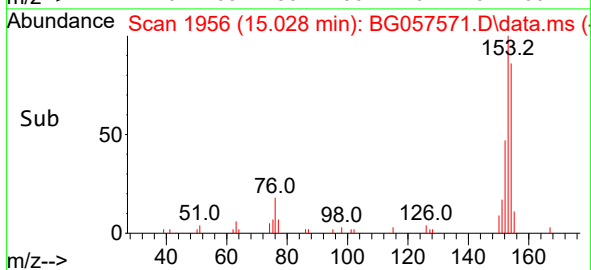
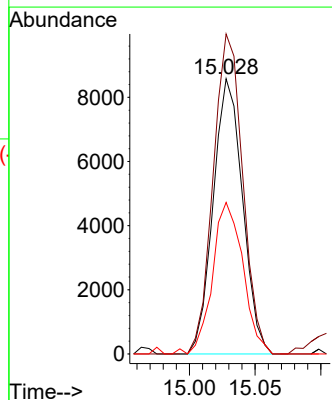
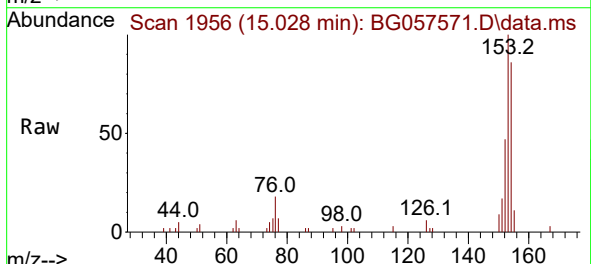
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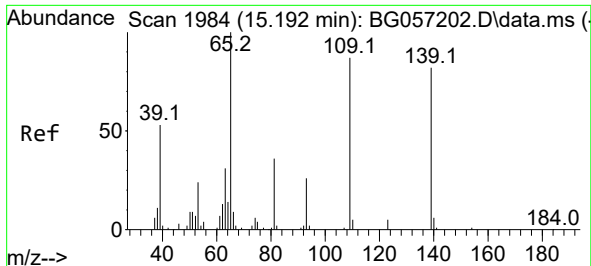
Tgt Ion:165 Resp: 10639
Ion Ratio Lower Upper
165 100
63 3.0 50.9 76.3#
89 2.3 55.2 82.8#



#52
Acenaphthene
Concen: 3.146 ng
RT: 15.028 min Scan# 1956
Delta R.T. -0.008 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

Tgt Ion:154 Resp: 13341
Ion Ratio Lower Upper
154 100
153 116.3 89.3 133.9
152 55.1 41.7 62.5

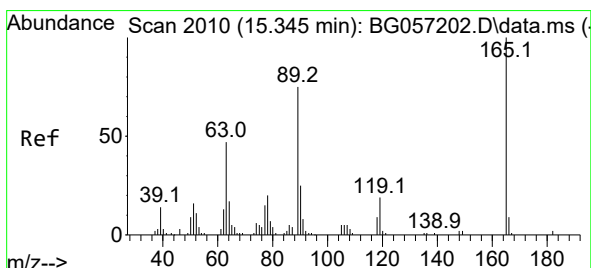
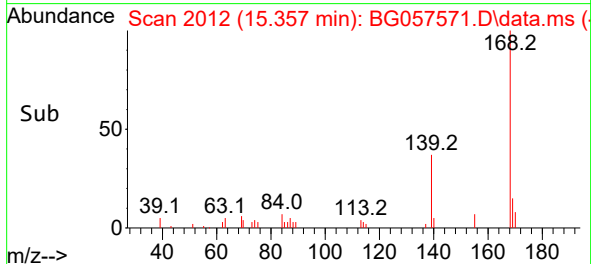
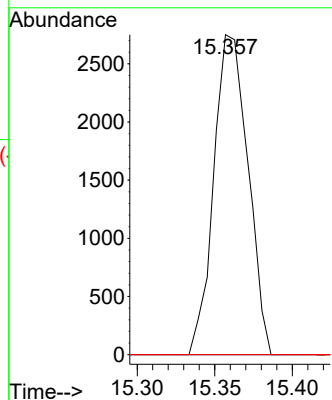
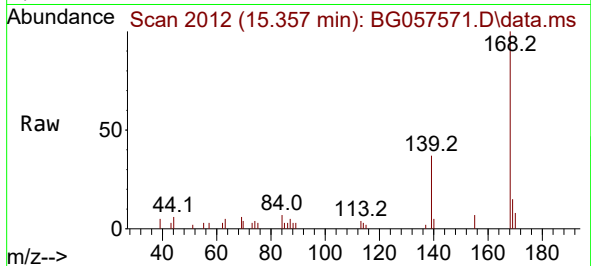




#56
4-Nitrophenol
Concen: 4.988 ng
RT: 15.357 min Scan# 2012
Delta R.T. 0.168 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

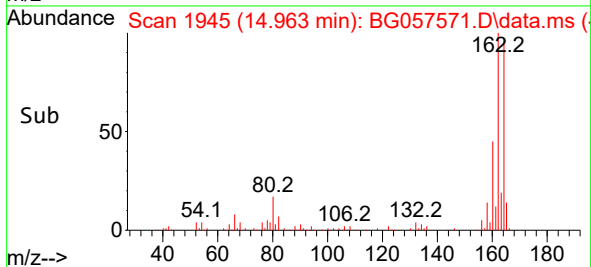
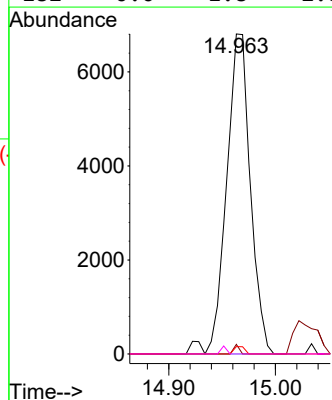
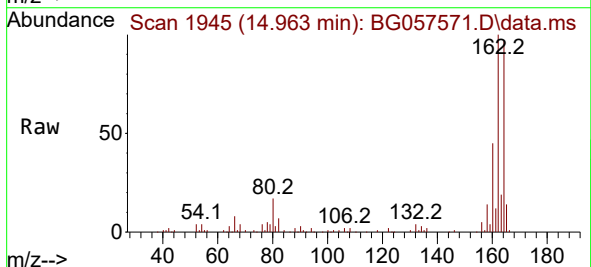
Instrument :
BNA_G
ClientSampleId :
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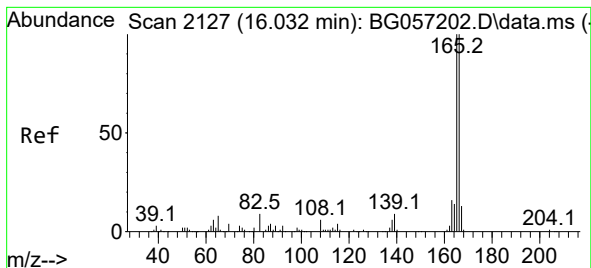
Tgt Ion:139 Resp: 4222
Ion Ratio Lower Upper
139 100
109 0.0 86.6 126.6#
65 0.0 102.6 142.6#



#57
2,4-Dinitrotoluene
Concen: 5.860 ng
RT: 14.963 min Scan# 1945
Delta R.T. -0.367 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

Tgt Ion:165 Resp: 10639
Ion Ratio Lower Upper
165 100
63 3.0 37.5 56.3#
89 2.3 60.2 90.4#
182 0.0 1.8 2.8#





#58

Fluorene

Concen: 2.906 ng

RT: 16.009 min Scan# 2123

Delta R.T. -0.003 min

Lab File: BG057571.D

Acq: 26 May 2023 00:01

Instrument :

BNA_G

ClientSampleId :

RBR-251671

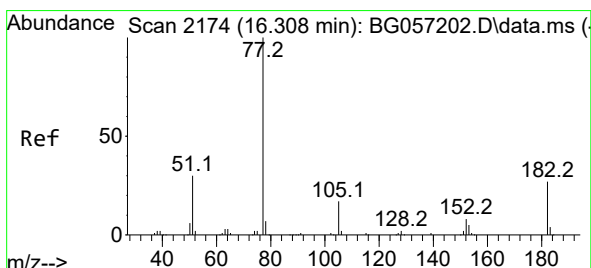
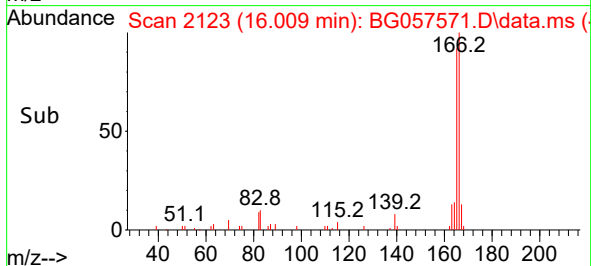
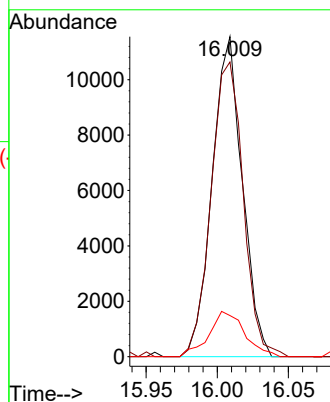
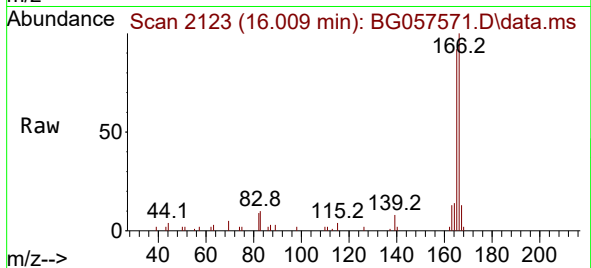
Tgt Ion:166 Resp: 17057

Ion Ratio Lower Upper

166 100

165 92.1 80.1 120.1

167 12.9 10.2 15.2



#63

Azobenzene

Concen: 3.520 ng

RT: 16.303 min Scan# 2173

Delta R.T. 0.021 min

Lab File: BG057571.D

Acq: 26 May 2023 00:01

Tgt Ion: 77 Resp: 21456

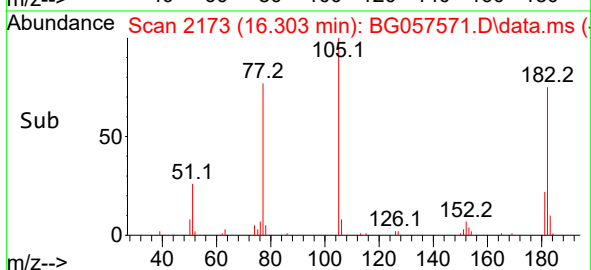
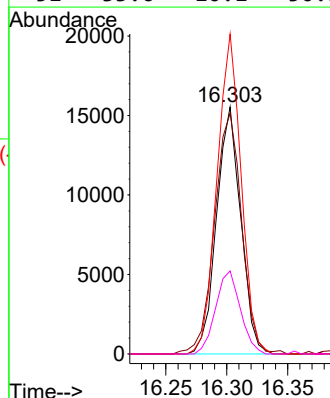
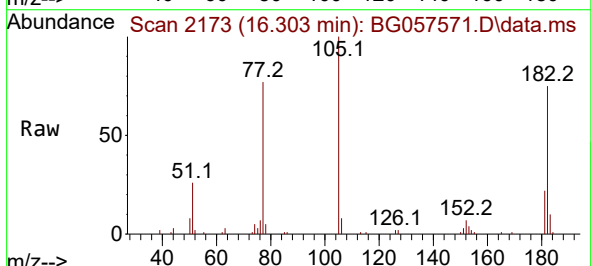
Ion Ratio Lower Upper

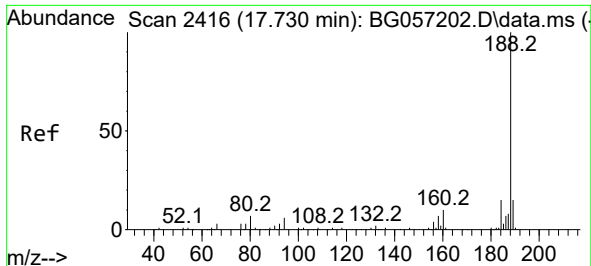
77 100

182 97.5 7.4 47.4#

105 129.5 0.0 37.2#

51 33.6 10.1 50.1

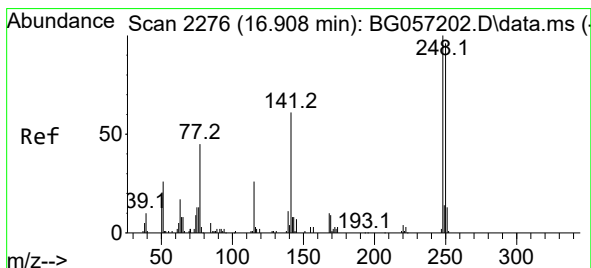
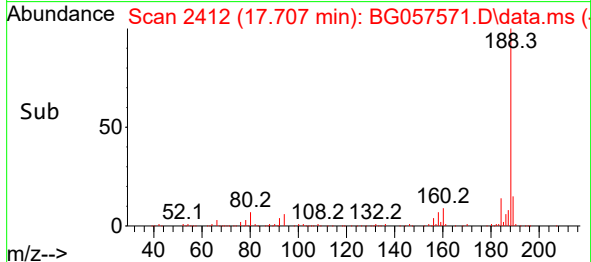
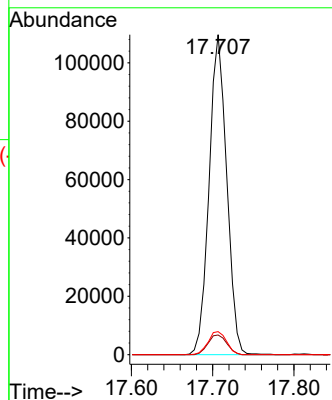
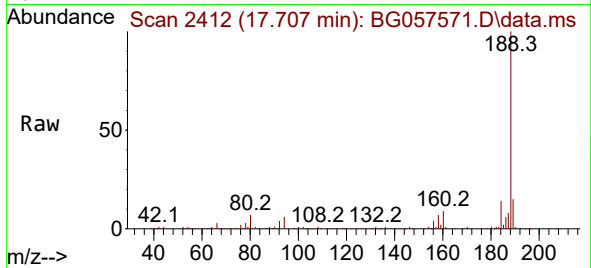




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.707 min Scan# 2416
Delta R.T. -0.003 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

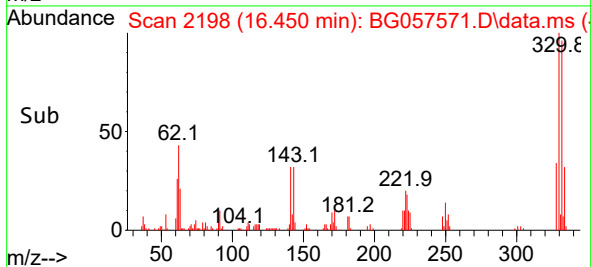
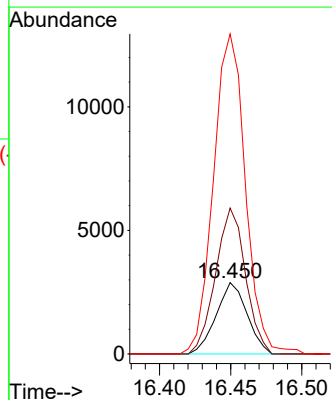
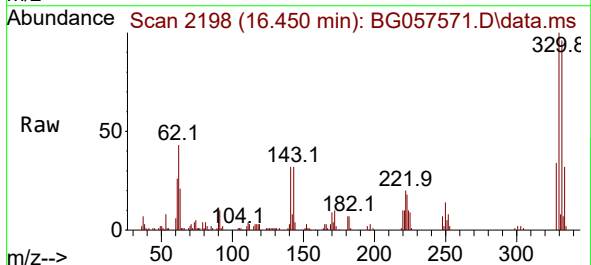
Instrument :
BNA_G
ClientSampleId :
RBR-251671

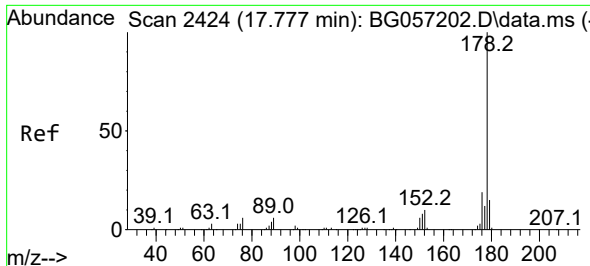
Tgt Ion:188 Resp: 164680
Ion Ratio Lower Upper
188 100
94 6.2 5.1 7.7
80 7.2 5.7 8.5



#67
4-Bromophenyl-phenylether
Concen: 2.173 ng
RT: 16.450 min Scan# 2198
Delta R.T. -0.437 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

Tgt Ion:248 Resp: 4369
Ion Ratio Lower Upper
248 100
250 204.2 77.0 115.6#
141 447.9 48.6 72.8#

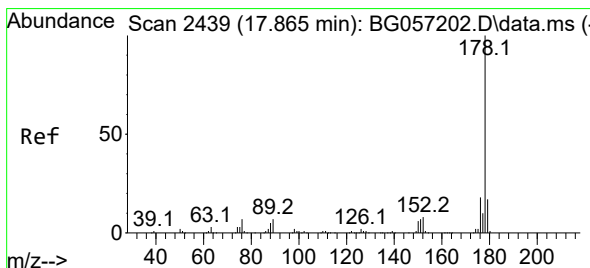
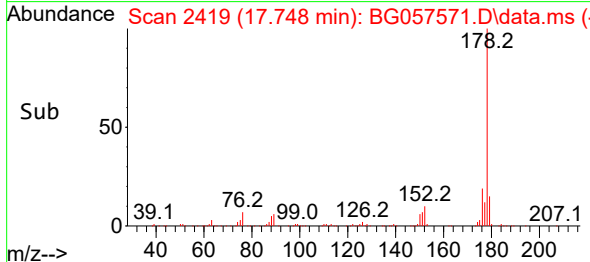
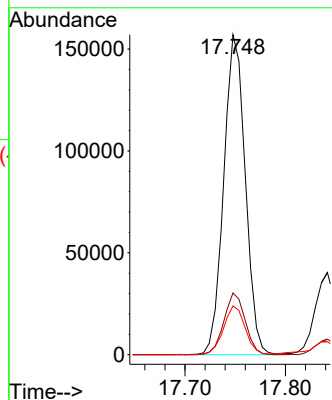
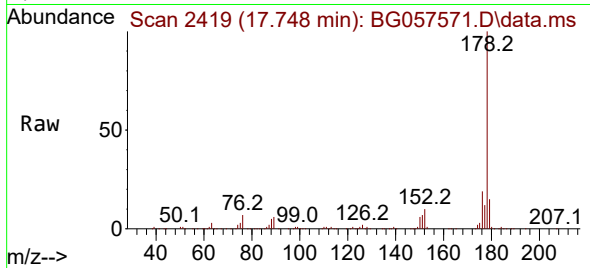




#71
Phenanthrene
Concen: 27.726 ng
RT: 17.748 min Scan# 2419
Delta R.T. -0.008 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

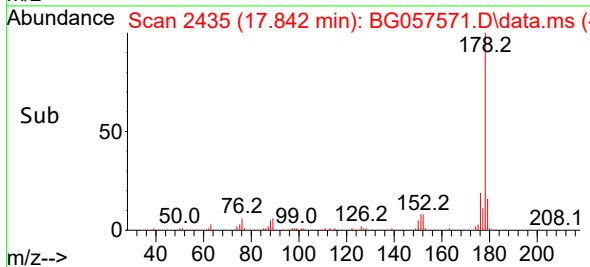
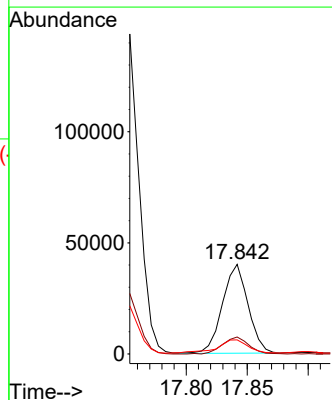
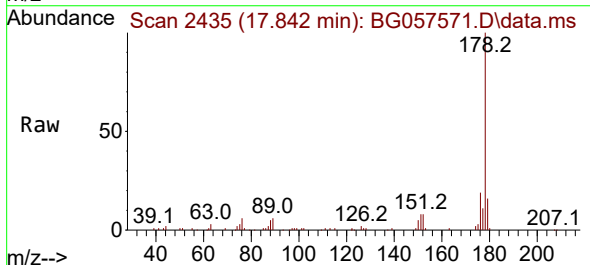
Instrument :
BNA_G
ClientSampleId :
RBR-251671

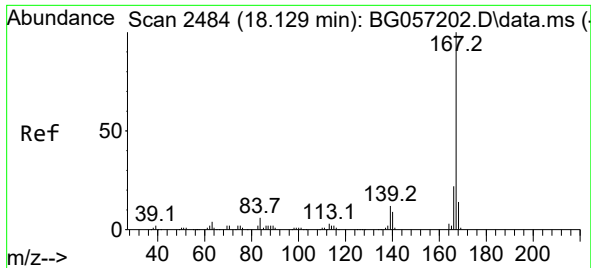
Tgt Ion:178 Resp: 233965
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.2 12.3 18.5



#72
Anthracene
Concen: 6.757 ng
RT: 17.842 min Scan# 2435
Delta R.T. -0.003 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

Tgt Ion:178 Resp: 58505
Ion Ratio Lower Upper
178 100
176 18.9 14.7 22.1
179 15.7 13.2 19.8

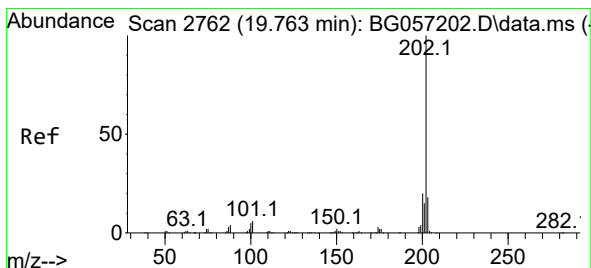
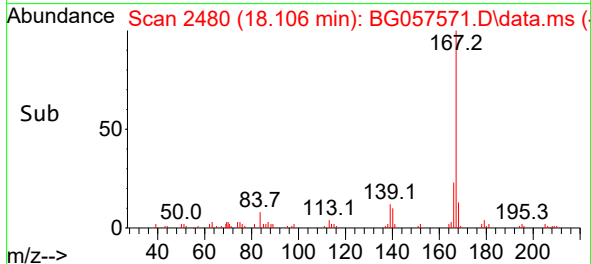
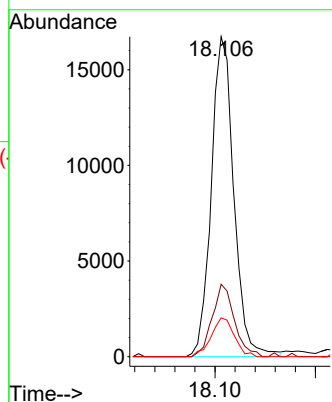
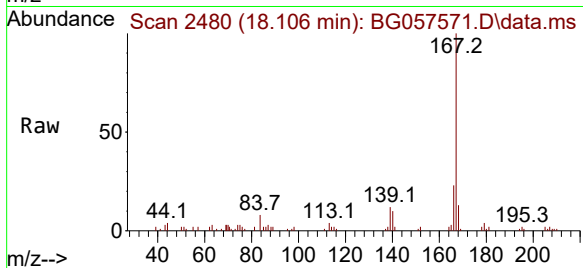




#73
 Carbazole
 Concen: 3.583 ng
 RT: 18.106 min Scan# 24
 Delta R.T. -0.008 min
 Lab File: BG057571.D
 Acq: 26 May 2023 00:01

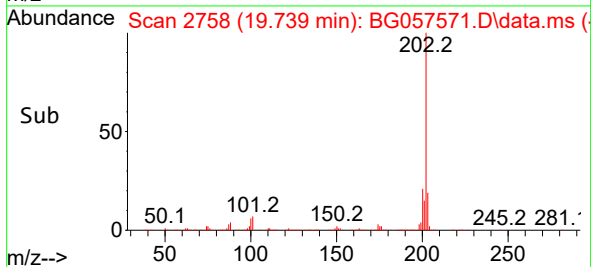
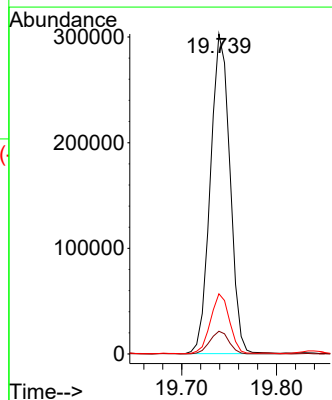
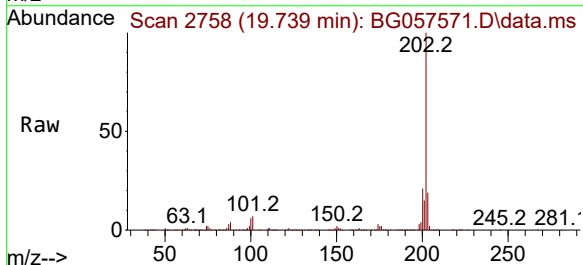
Instrument :
 BNA_G
 ClientSampleId :
 RBR-251671

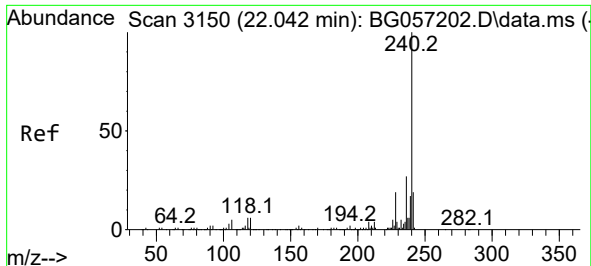
Tgt Ion:167 Resp: 26121
 Ion Ratio Lower Upper
 167 100
 166 22.6 17.4 26.0
 139 12.1 9.6 14.4



#75
 Fluoranthene
 Concen: 41.320 ng
 RT: 19.739 min Scan# 2758
 Delta R.T. -0.003 min
 Lab File: BG057571.D
 Acq: 26 May 2023 00:01

Tgt Ion:202 Resp: 433663
 Ion Ratio Lower Upper
 202 100
 101 7.1 0.0 26.2
 203 18.8 0.0 37.9

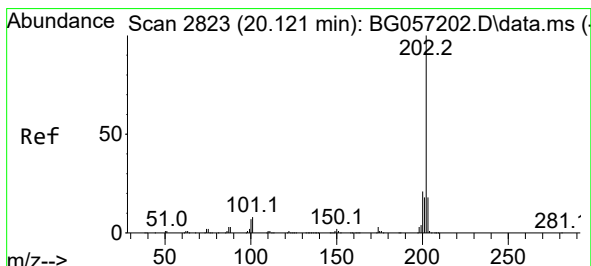
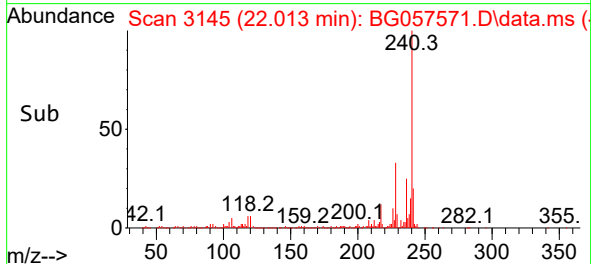
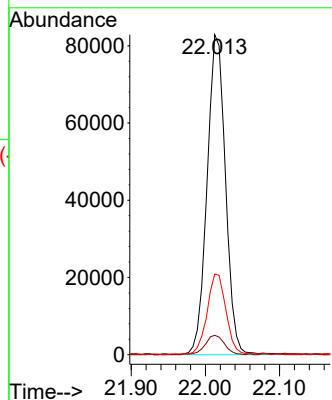
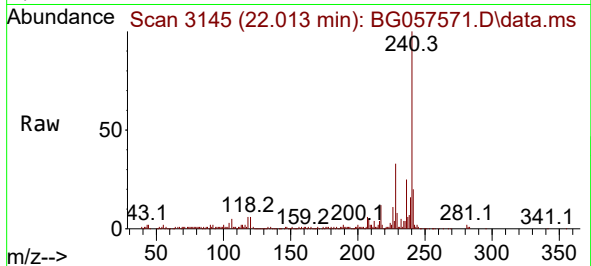




#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.013 min Scan# 3150
Delta R.T. -0.008 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

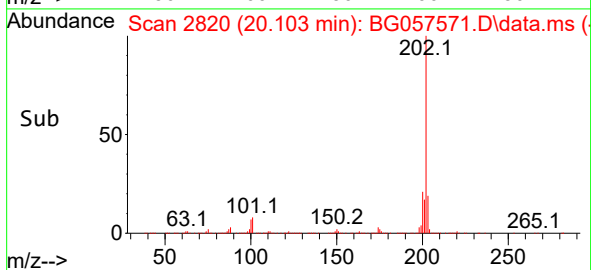
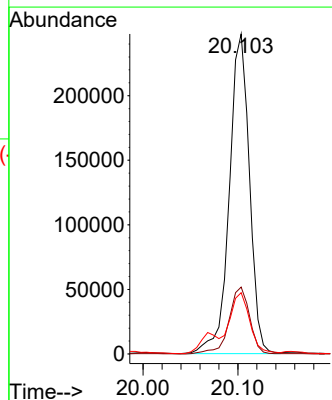
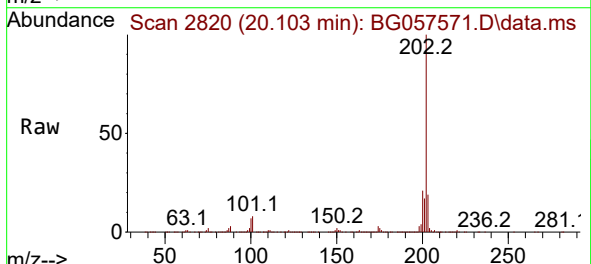
Instrument :
BNA_G
ClientSampleId :
RBR-251671

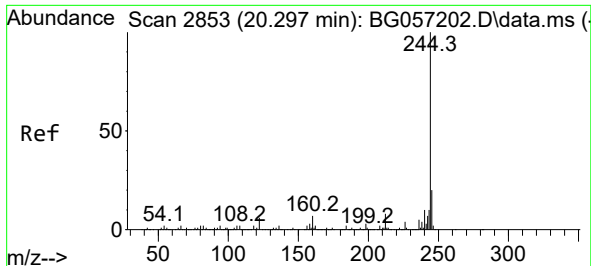
Tgt Ion:240 Resp: 142983
Ion Ratio Lower Upper
240 100
120 6.1 4.9 7.3
236 25.2 21.4 32.2



#78
Pyrene
Concen: 35.148 ng
RT: 20.103 min Scan# 2820
Delta R.T. -0.003 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

Tgt Ion:202 Resp: 365185
Ion Ratio Lower Upper
202 100
200 20.9 17.0 25.4
203 19.1 14.2 21.4

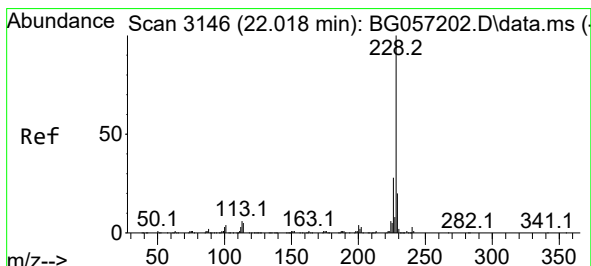
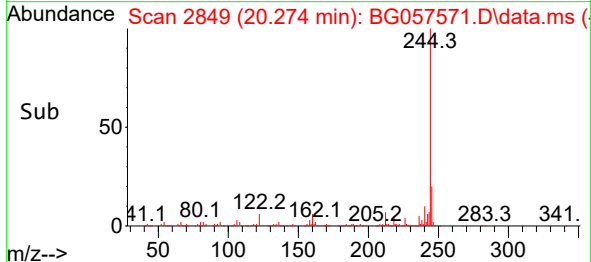
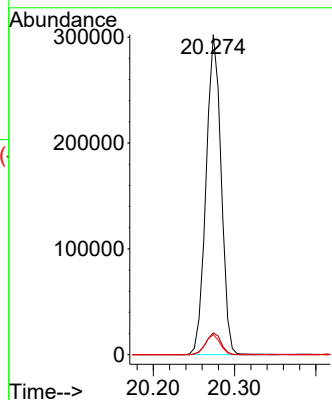
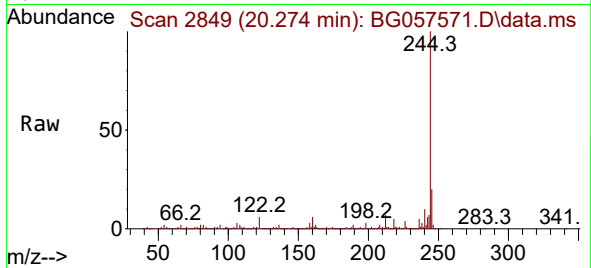




#79
 Terphenyl-d14
 Concen: 44.301 ng
 RT: 20.274 min Scan# 21
 Delta R.T. -0.003 min
 Lab File: BG057571.D
 Acq: 26 May 2023 00:01

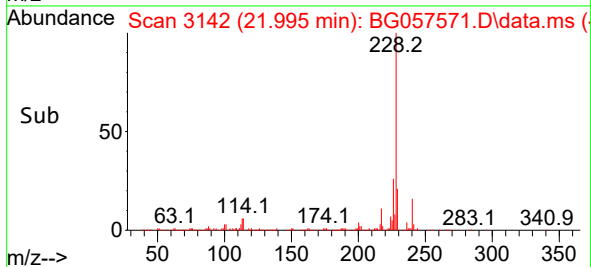
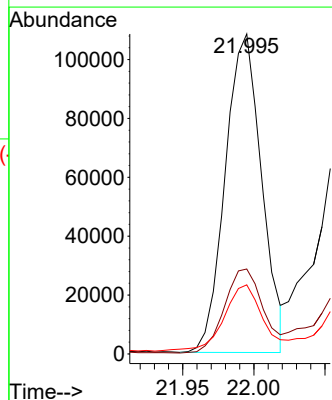
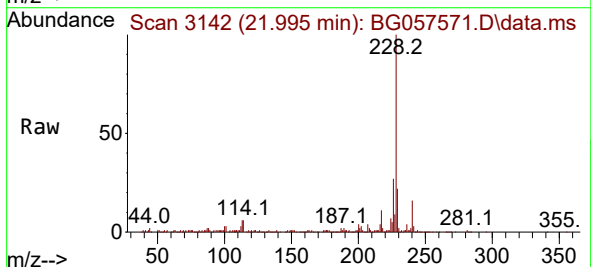
Instrument :
 BNA_G
 ClientSampleId :
 RBR-251671

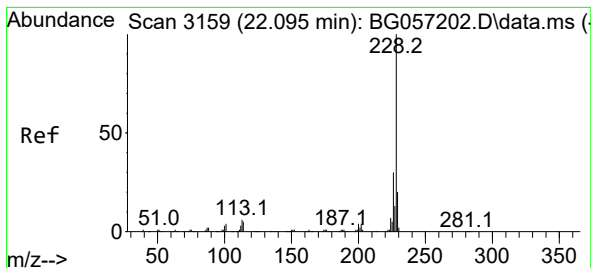
Tgt Ion:244 Resp: 388151
 Ion Ratio Lower Upper
 244 100
 212 6.8 6.1 9.1
 122 6.3 5.1 7.7



#81
 Benzo(a)anthracene
 Concen: 18.940 ng
 RT: 21.995 min Scan# 3142
 Delta R.T. -0.003 min
 Lab File: BG057571.D
 Acq: 26 May 2023 00:01

Tgt Ion:228 Resp: 192938
 Ion Ratio Lower Upper
 228 100
 226 26.6 22.0 33.0
 229 21.6 15.8 23.8





#83

Chrysene

Concen: 19.733 ng

RT: 22.065 min Scan# 3159

Delta R.T. -0.003 min

Lab File: BG057571.D

Acq: 26 May 2023 00:01

Instrument :

BNA_G

ClientSampleId :

RBR-251671

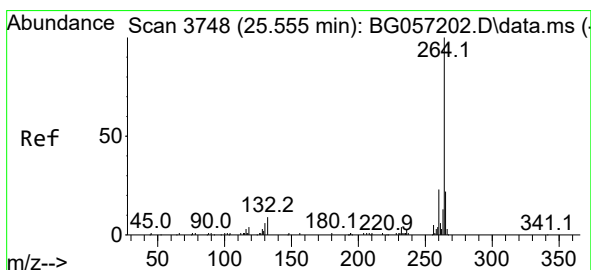
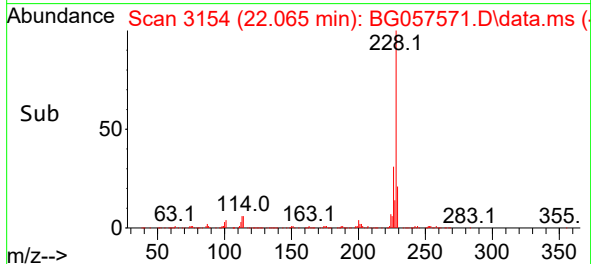
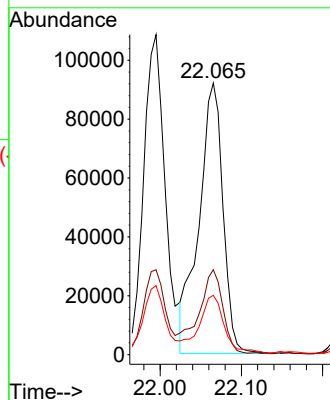
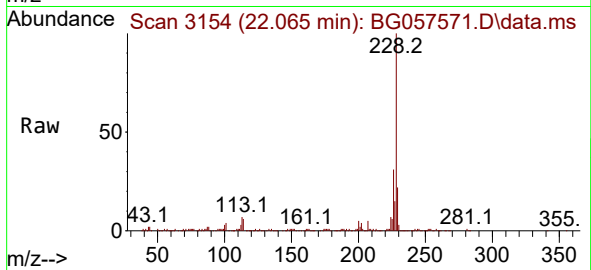
Tgt Ion:228 Resp: 189135

Ion Ratio Lower Upper

228 100

226 31.3 24.3 36.5

229 21.9 15.9 23.9



#86

Perylene-d12

Concen: 20.000 ng

RT: 25.520 min Scan# 3742

Delta R.T. -0.003 min

Lab File: BG057571.D

Acq: 26 May 2023 00:01

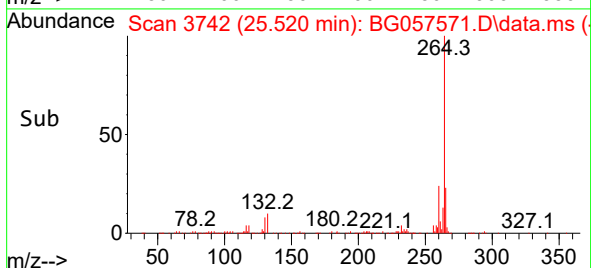
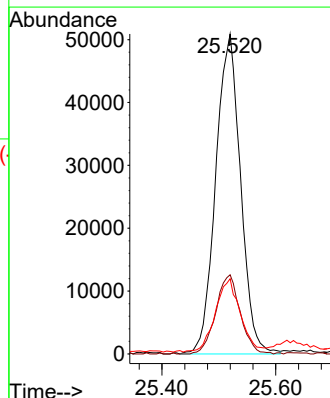
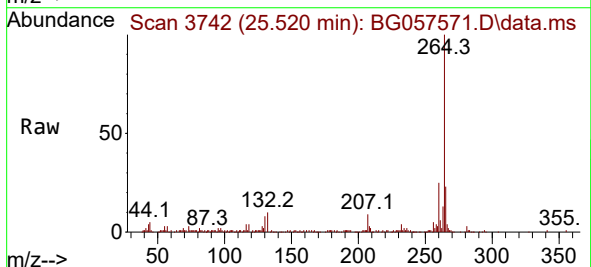
Tgt Ion:264 Resp: 154431

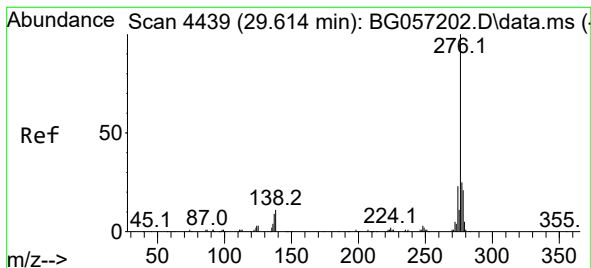
Ion Ratio Lower Upper

264 100

260 24.7 18.8 28.2

265 23.5 17.9 26.9





#87

Indeno(1,2,3-cd)pyrene

Concen: 9.470 ng

RT: 29.567 min Scan# 4431

Delta R.T. -0.014 min

Lab File: BG057571.D

Acq: 26 May 2023 00:01

Instrument :

BNA_G

ClientSampleId :

RBR-251671

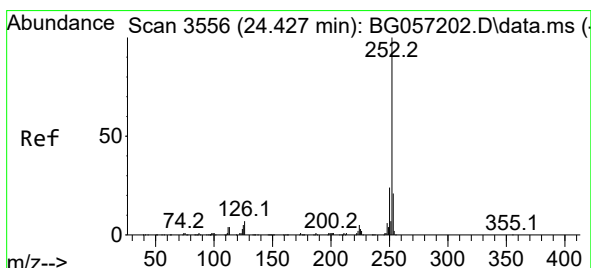
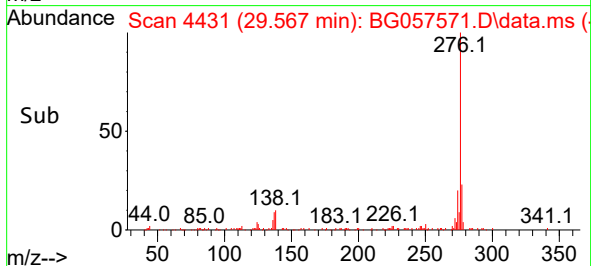
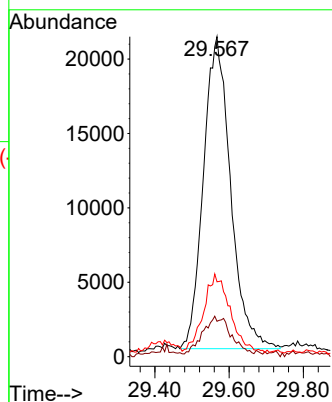
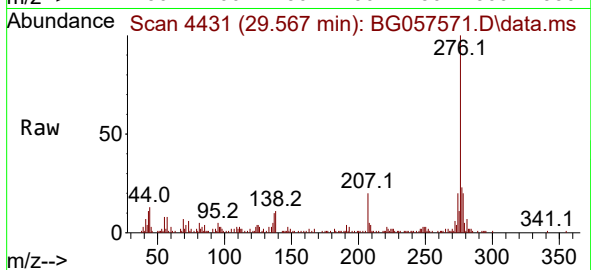
Tgt Ion:276 Resp: 106586

Ion Ratio Lower Upper

276 100

138 7.2 5.4 8.0

277 24.8 20.6 30.8



#88

Benzo(b)fluoranthene

Concen: 24.736 ng

RT: 24.398 min Scan# 3551

Delta R.T. -0.003 min

Lab File: BG057571.D

Acq: 26 May 2023 00:01

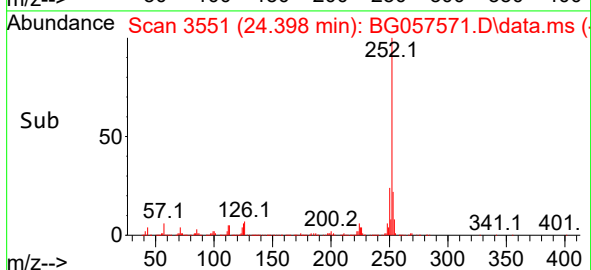
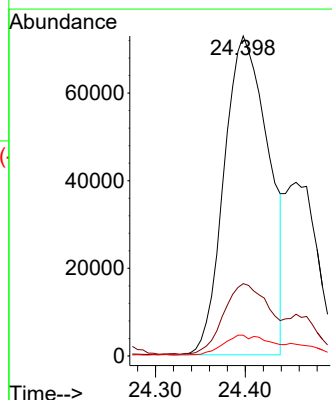
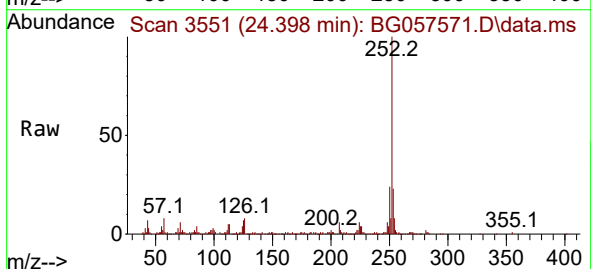
Tgt Ion:252 Resp: 249716

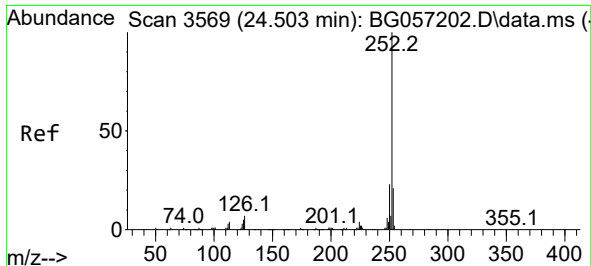
Ion Ratio Lower Upper

252 100

253 22.6 17.0 25.6

125 6.5 4.2 6.2#

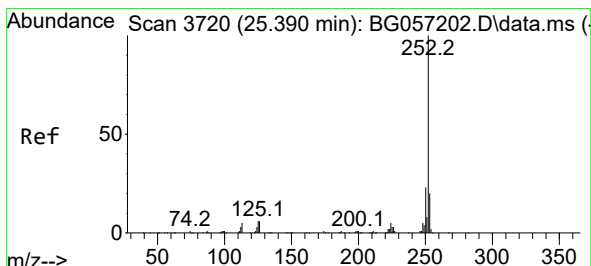
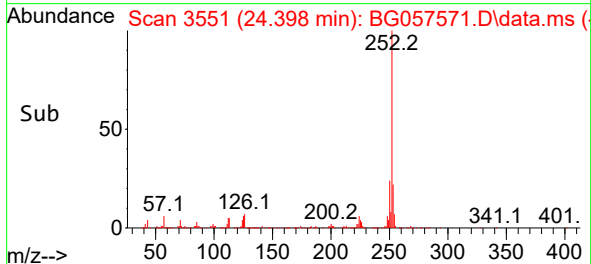
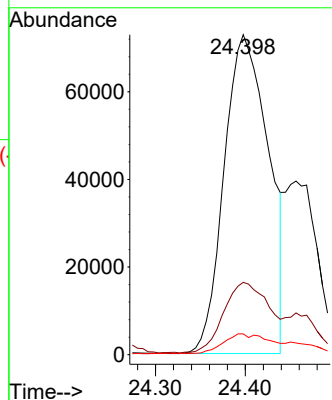
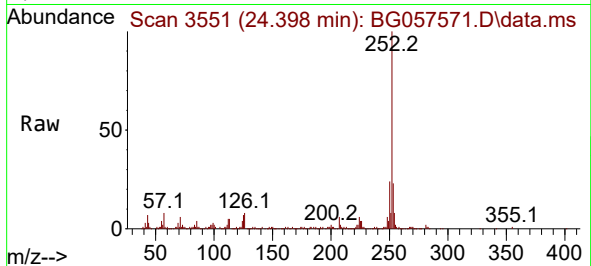




#89
Benzo(k)fluoranthene
Concen: 24.343 ng
RT: 24.398 min Scan# 311
Delta R.T. -0.073 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

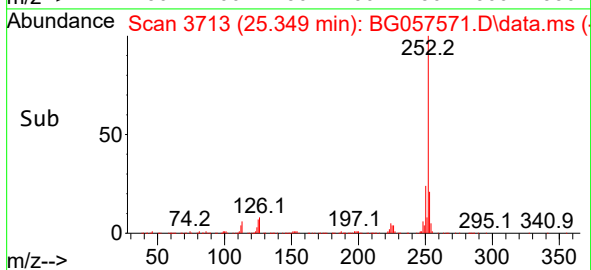
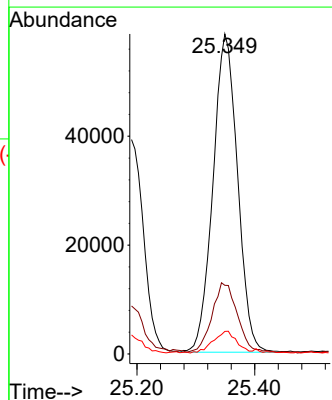
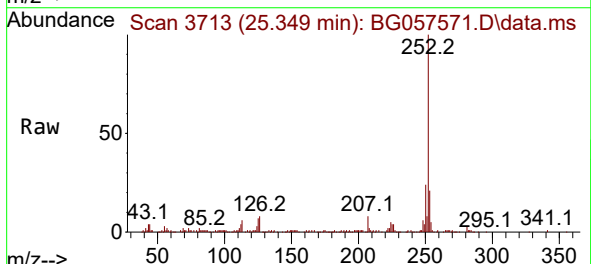
Instrument :
BNA_G
ClientSampleId :
RBR-251671

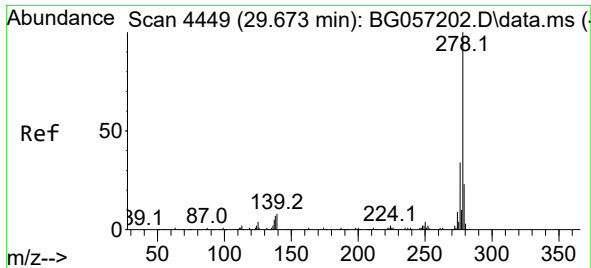
Tgt Ion:252 Resp: 249716
Ion Ratio Lower Upper
252 100
253 22.6 17.4 26.0
125 6.5 4.1 6.1#



#90
Benzo(a)pyrene
Concen: 17.173 ng
RT: 25.349 min Scan# 3713
Delta R.T. -0.008 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

Tgt Ion:252 Resp: 169364
Ion Ratio Lower Upper
252 100
253 21.4 16.3 24.5
125 7.0 5.0 7.4

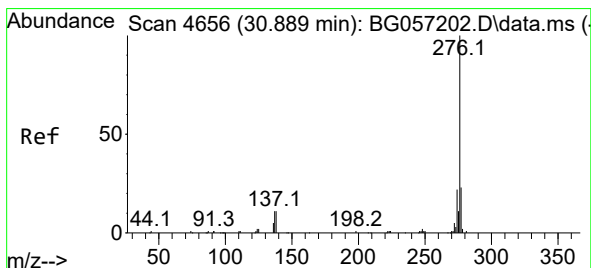
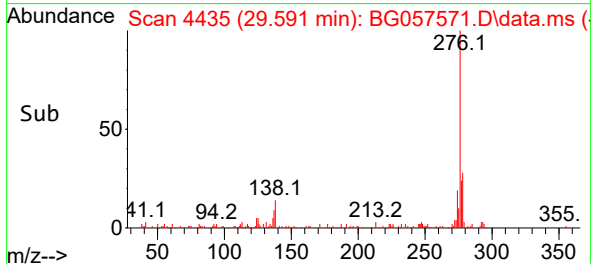
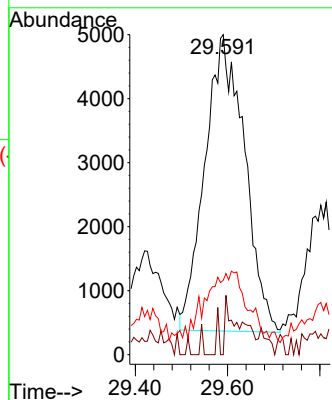
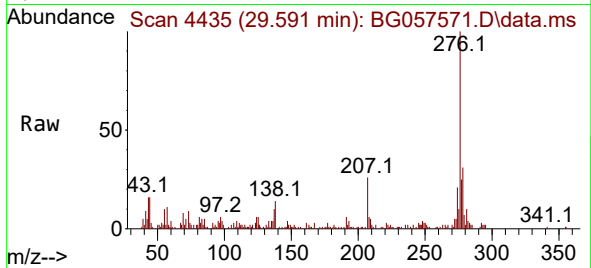




#91
Dibenzo(a,h)anthracene
Concen: 2.935 ng
RT: 29.591 min Scan# 4449
Delta R.T. -0.044 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

Instrument :
BNA_G
ClientSampleId :
RBR-251671

Tgt Ion:278 Resp: 27513
Ion Ratio Lower Upper
278 100
139 0.0 6.2 9.2#
279 23.2 18.6 27.8



#92
Benzo(g,h,i)perylene
Concen: 11.535 ng
RT: 30.842 min Scan# 4648
Delta R.T. -0.014 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

Tgt Ion:276 Resp: 105575
Ion Ratio Lower Upper
276 100
277 22.4 18.4 27.6
138 12.0 9.0 13.4

