

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG053023\
 Data File : BG057610.D
 Acq On : 30 May 2023 17:29
 Operator : CG/JU
 Sample : 02955-02
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 DUP02

Quant Time: May 31 03:28:56 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG052723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 31 03:25:39 2023
 Response via : Initial Calibration

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

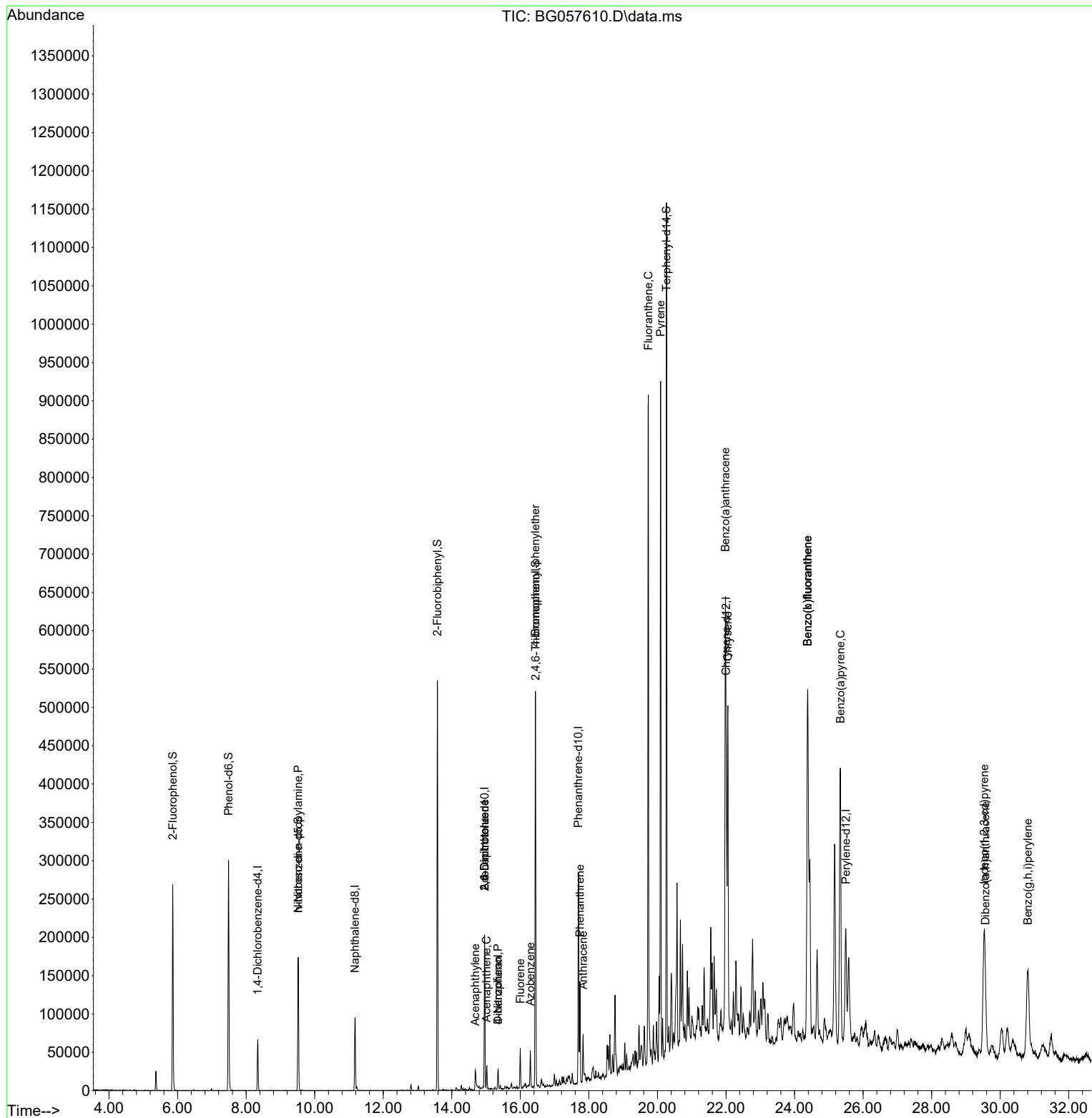
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.338	152	19566	20.000	ng	0.00
21) Naphthalene-d8	11.175	136	85797	20.000	ng	# 0.00
39) Acenaphthene-d10	14.958	164	70555	20.000	ng	0.00
64) Phenanthrene-d10	17.696	188	179035	20.000	ng	0.00
76) Chrysene-d12	22.002	240	158366	20.000	ng	0.00
86) Perylene-d12	25.497	264	172005	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.859	112	121814	108.161	ng	0.00
7) Phenol-d6	7.486	99	189696	107.627	ng	0.00
23) Nitrobenzene-d5	9.519	82	115599	62.984	ng	0.00
42) 2,4,6-Tribromophenol	16.445	330	106546	94.321	ng	0.00
45) 2-Fluorobiphenyl	13.578	172	292489	59.576	ng	0.00
79) Terphenyl-d14	20.263	244	544308	59.537	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	9.519	70	15459	12.625	ng	# 78
49) Acenaphthylene	14.688	152	34010	5.288	ng	97
51) 2,6-Dinitrotoluene	14.958	165	10027	8.055	ng	# 29
52) Acenaphthene	15.017	154	11303	2.872	ng	93
55) Dibenzofuran	15.352	168	16293	2.423	ng	97
56) 4-Nitrophenol	15.352	139	6061	7.006	ng	# 2
57) 2,4-Dinitrotoluene	14.958	165	10027	5.380	ng	# 27
58) Fluorene	15.998	166	23111	4.070	ng	98
63) Azobenzene	16.292	77	12000	2.223	ng	# 1
67) 4-Bromophenyl-phenylether	16.439	248	7327	3.648	ng	# 1
71) Phenanthrene	17.737	178	86106	9.398	ng	98
72) Anthracene	17.831	178	41526	4.418	ng	97
75) Fluoranthene	19.734	202	562180	47.266	ng	99
78) Pyrene	20.093	202	561464	49.793	ng	99
81) Benzo(a)anthracene	21.984	228	391275	35.613	ng	96
83) Chrysene	22.055	228	371659	35.796	ng	98
87) Indeno(1,2,3-cd)pyrene	29.539	276	302284	25.207	ng	98
88) Benzo(b)fluoranthene	24.381	252	630974	59.597	ng	99
89) Benzo(k)fluoranthene	24.381	252	630974	59.052	ng	98
90) Benzo(a)pyrene	25.338	252	417290	40.415	ng	98
91) Dibenzo(a,h)anthracene	29.568	278	96066	9.625	ng	96
92) Benzo(g,h,i)perylene	30.808	276	271251	27.867	ng	97

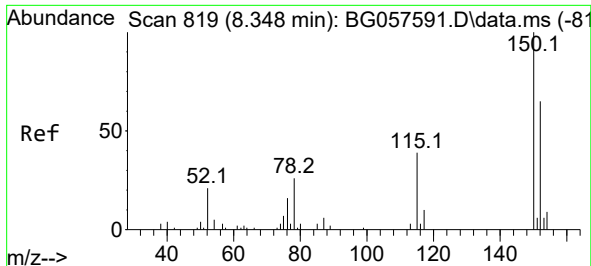
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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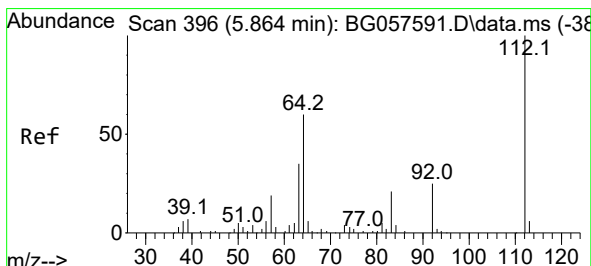
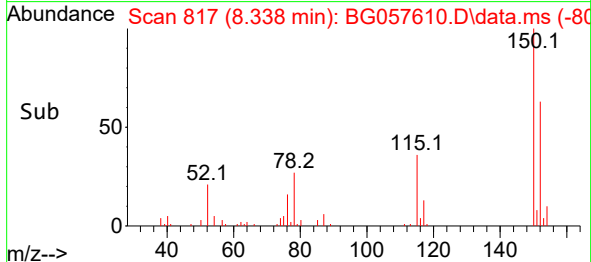
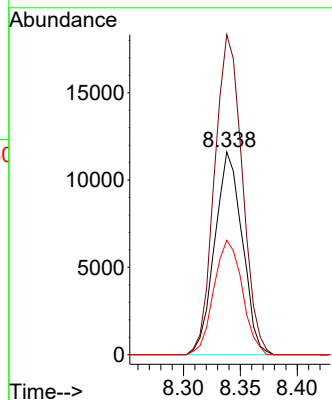
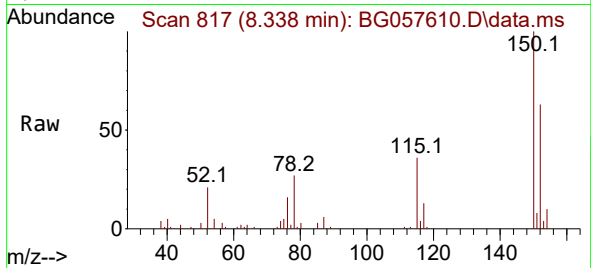




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.338 min Scan# 819
Delta R.T. -0.006 min
Lab File: BG057610.D
Acq: 30 May 2023 17:29

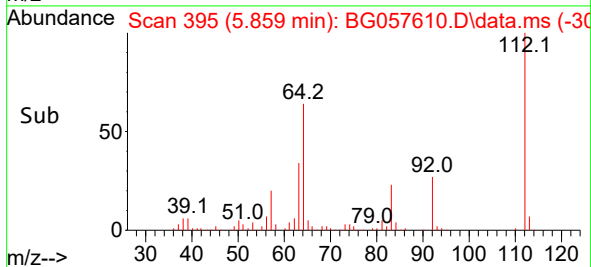
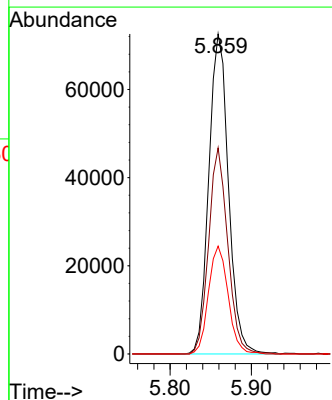
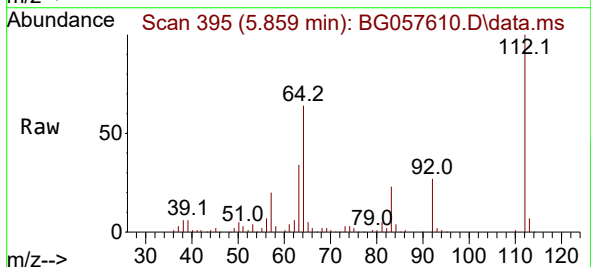
Instrument :
BNA_G
ClientSampleId :
DUP02

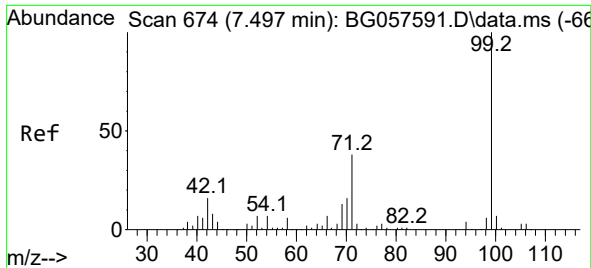
Tgt Ion:152 Resp: 19566
Ion Ratio Lower Upper
152 100
150 157.9 123.0 184.4
115 56.5 47.4 71.2



#5
2-Fluorophenol
Concen: 108.161 ng
RT: 5.859 min Scan# 395
Delta R.T. 0.000 min
Lab File: BG057610.D
Acq: 30 May 2023 17:29

Tgt Ion:112 Resp: 121814
Ion Ratio Lower Upper
112 100
64 64.4 47.8 71.6
63 33.7 27.8 41.8

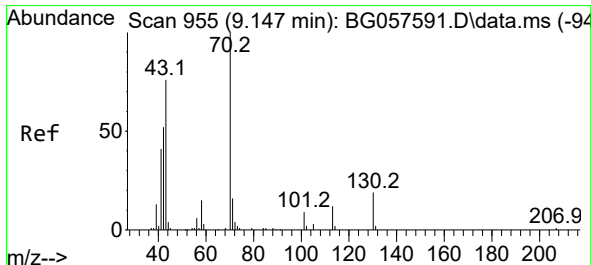
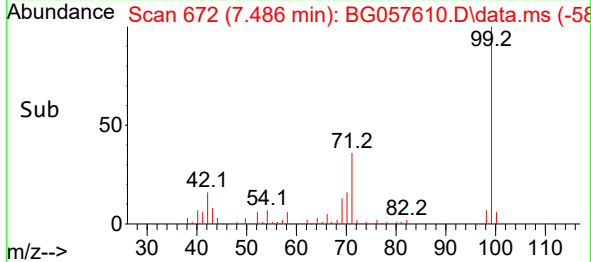
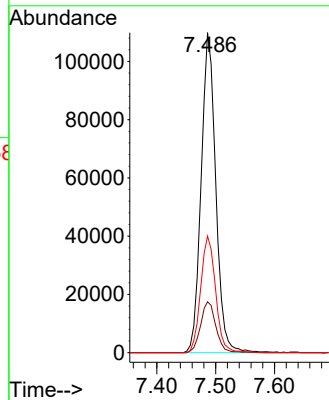
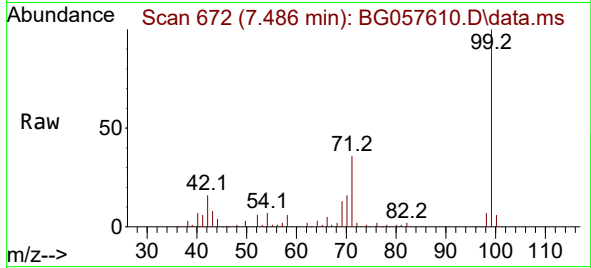




#7
Phenol-d6
Concen: 107.627 ng
RT: 7.486 min Scan# 61
Delta R.T. 0.000 min
Lab File: BG057610.D
Acq: 30 May 2023 17:29

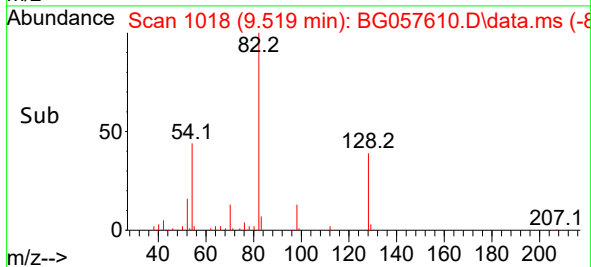
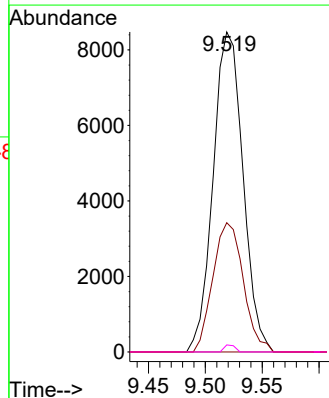
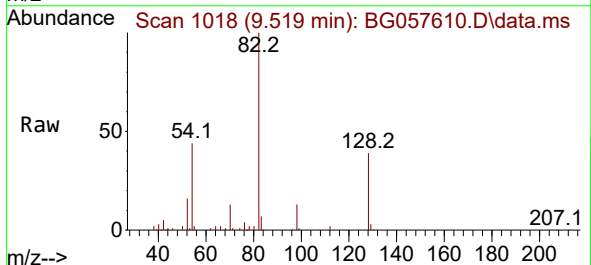
Instrument :
BNA_G
ClientSampleId :
DUP02

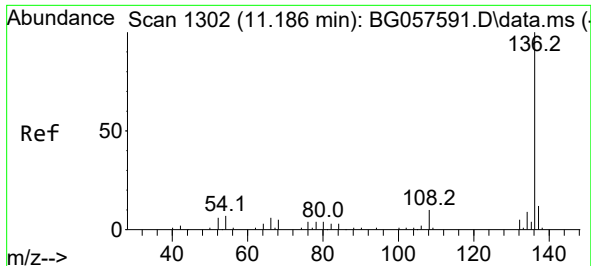
Tgt Ion: 99 Resp: 189696
Ion Ratio Lower Upper
99 100
42 15.9 12.8 19.2
71 36.4 30.3 45.5



#19
n-Nitroso-di-n-propylamine
Concen: 12.625 ng
RT: 9.519 min Scan# 1018
Delta R.T. 0.376 min
Lab File: BG057610.D
Acq: 30 May 2023 17:29

Tgt Ion: 70 Resp: 15459
Ion Ratio Lower Upper
70 100
42 40.4 41.4 62.0#
101 0.0 6.9 10.3#
130 2.2 14.9 22.3#

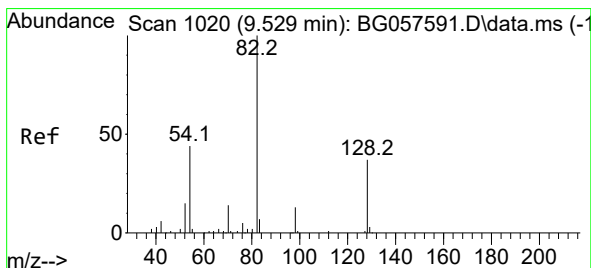
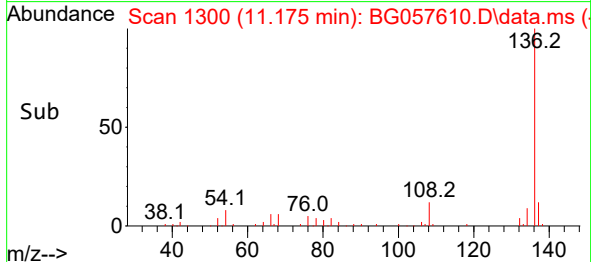
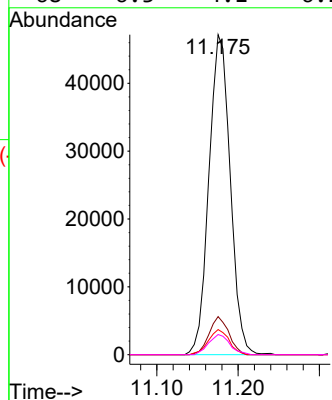
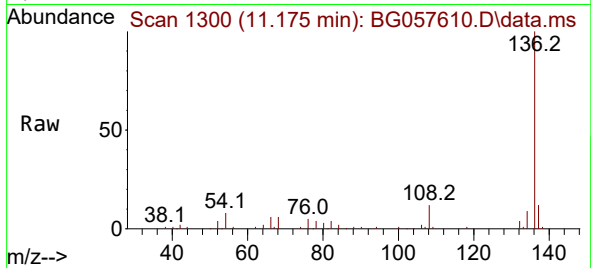




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.175 min Scan# 11
Delta R.T. 0.000 min
Lab File: BG057610.D
Acq: 30 May 2023 17:29

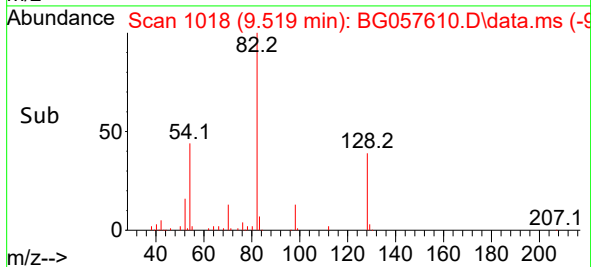
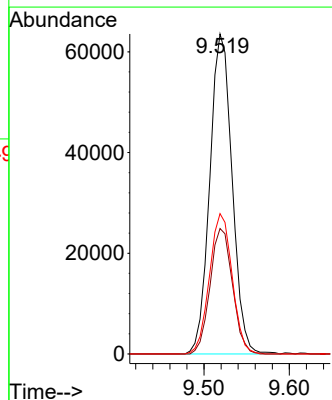
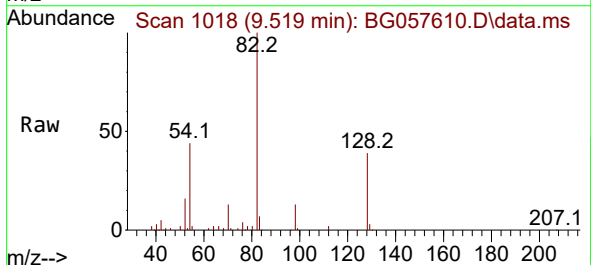
Instrument :
BNA_G
ClientSampleId :
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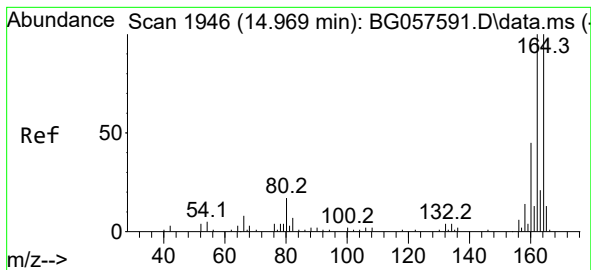
Tgt Ion:136 Resp: 85797
Ion Ratio Lower Upper
136 100
137 11.9 9.8 14.8
54 7.9 5.8 8.6
68 6.3 4.1 6.1#



#23
Nitrobenzene-d5
Concen: 62.984 ng
RT: 9.519 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BG057610.D
Acq: 30 May 2023 17:29

Tgt Ion: 82 Resp: 115599
Ion Ratio Lower Upper
82 100
128 39.2 30.0 45.0
54 43.8 35.2 52.8





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.958 min Scan# 1944

Delta R.T. 0.000 min

Lab File: BG057610.D

Acq: 30 May 2023 17:29

Instrument :

BNA_G

ClientSampleId :

DUP02

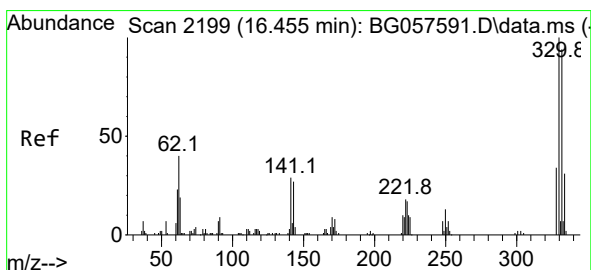
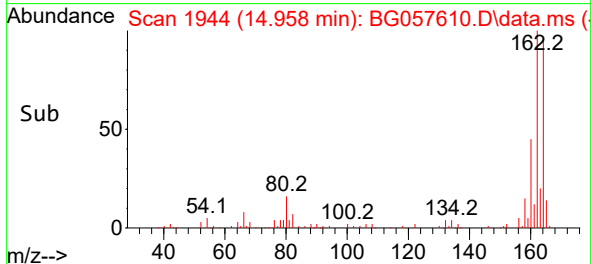
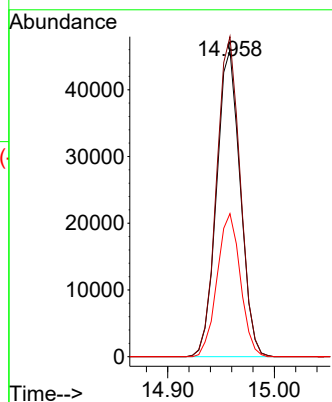
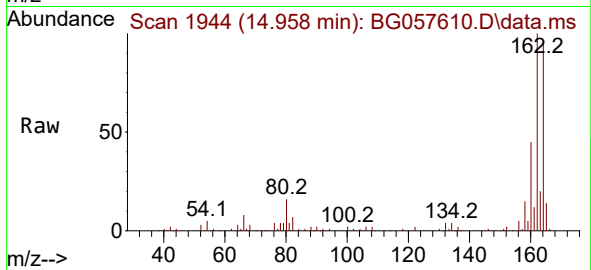
Tgt Ion:164 Resp: 70555

Ion Ratio Lower Upper

164 100

162 104.4 80.1 120.1

160 46.6 35.9 53.9



#42

2,4,6-Tribromophenol

Concen: 94.321 ng

RT: 16.445 min Scan# 2197

Delta R.T. 0.000 min

Lab File: BG057610.D

Acq: 30 May 2023 17:29

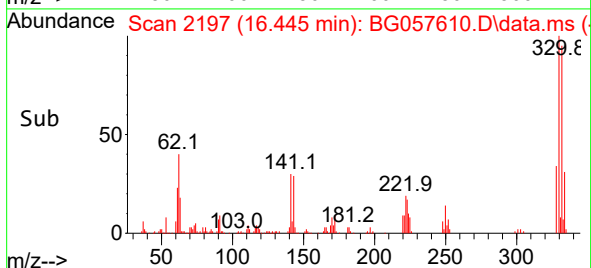
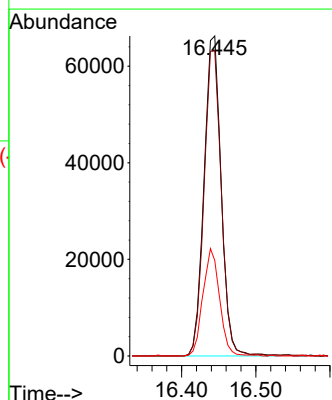
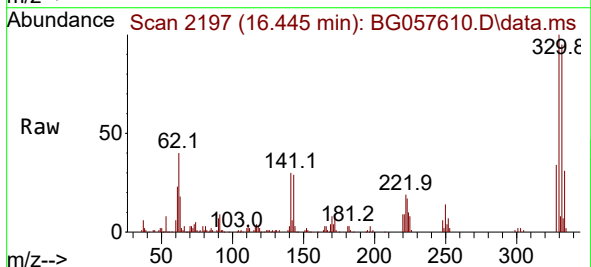
Tgt Ion:330 Resp: 106546

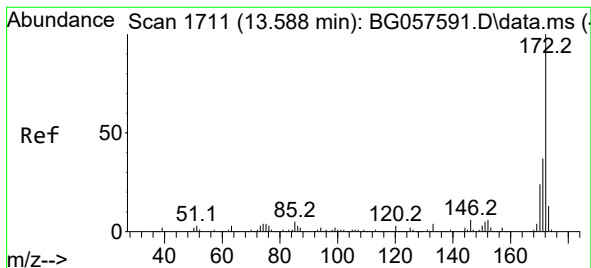
Ion Ratio Lower Upper

330 100

332 96.0 77.3 115.9

141 32.6 24.6 37.0

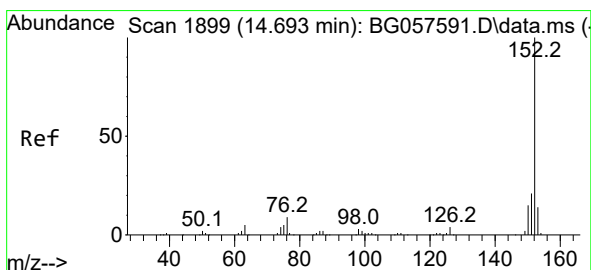
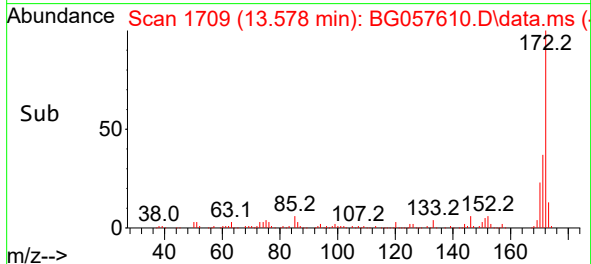
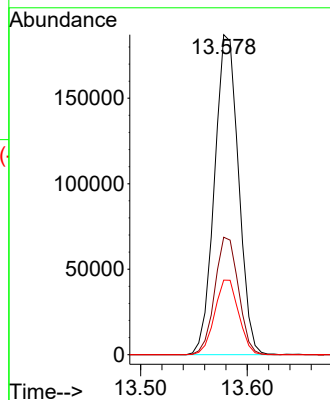
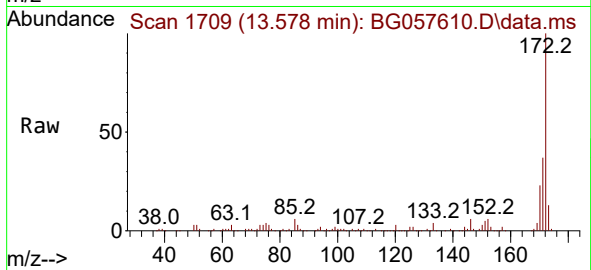




#45
2-Fluorobiphenyl
Concen: 59.576 ng
RT: 13.578 min Scan# 1711
Delta R.T. -0.006 min
Lab File: BG057610.D
Acq: 30 May 2023 17:29

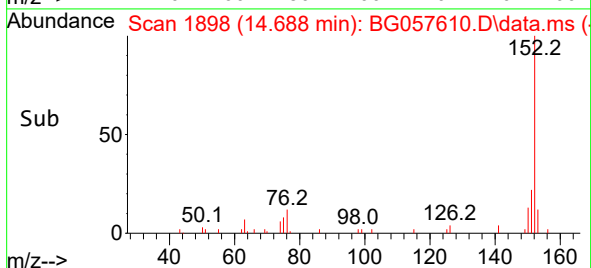
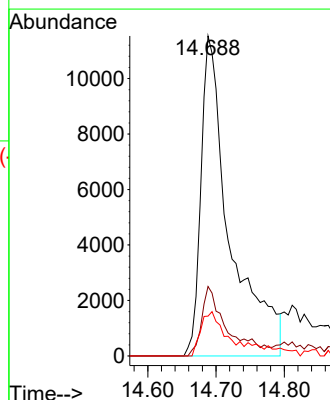
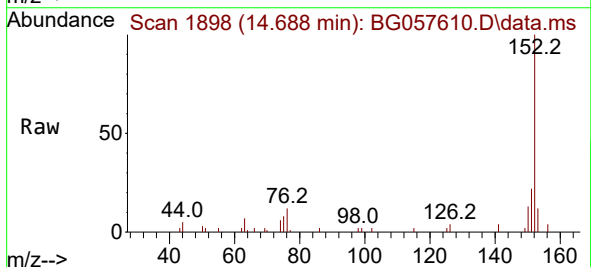
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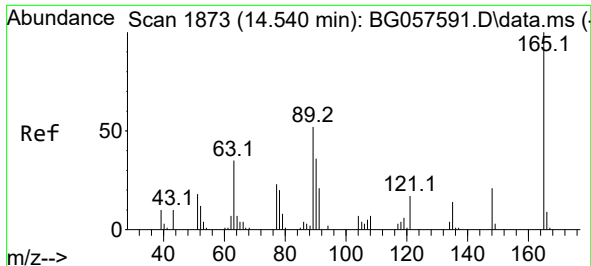
Tgt Ion:172 Resp: 292489
Ion Ratio Lower Upper
172 100
171 36.7 29.2 43.8
170 23.3 19.0 28.4



#49
Acenaphthylene
Concen: 5.288 ng
RT: 14.688 min Scan# 1898
Delta R.T. 0.000 min
Lab File: BG057610.D
Acq: 30 May 2023 17:29

Tgt Ion:152 Resp: 34010
Ion Ratio Lower Upper
152 100
151 21.7 16.5 24.7
153 12.5 11.0 16.4

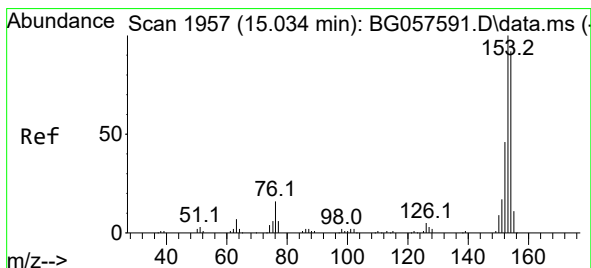
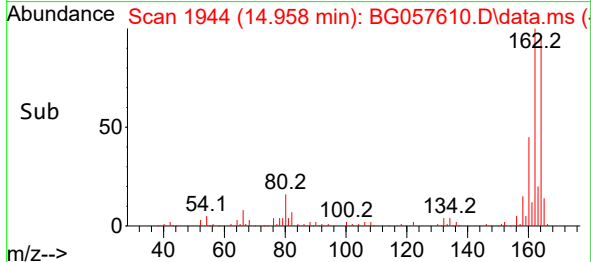
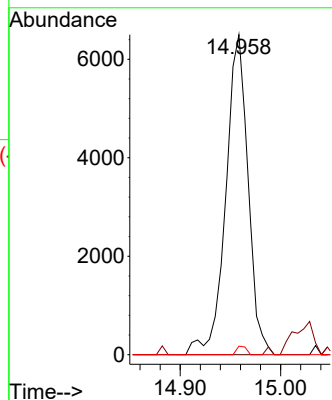
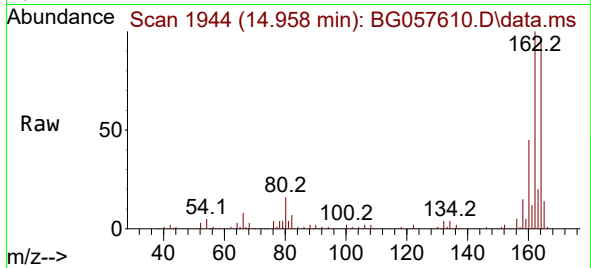




#51
2,6-Dinitrotoluene
Concen: 8.055 ng
RT: 14.958 min Scan# 1944
Delta R.T. 0.429 min
Lab File: BG057610.D
Acq: 30 May 2023 17:29

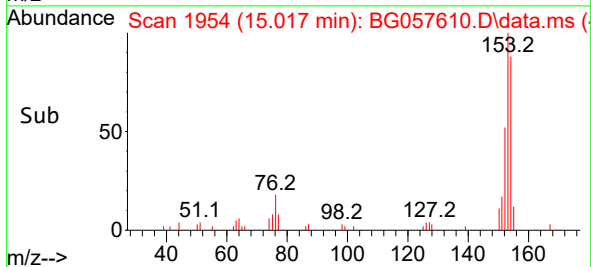
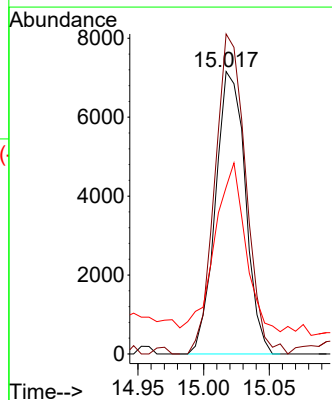
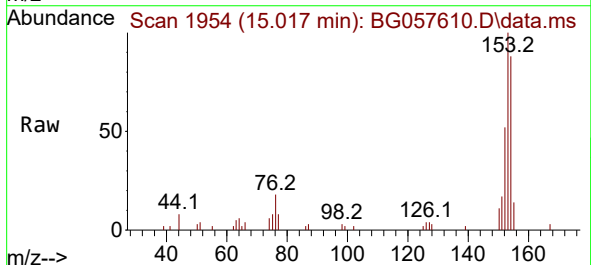
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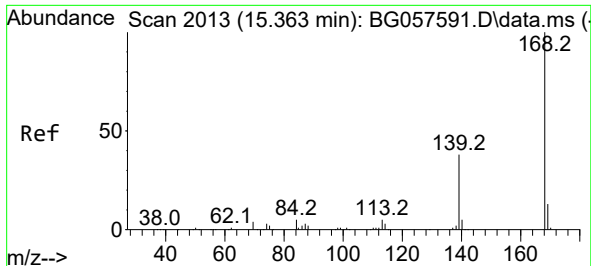
Tgt Ion:165 Resp: 10027
Ion Ratio Lower Upper
165 100
63 0.0 39.3 58.9#
89 2.6 41.5 62.3#



#52
Acenaphthene
Concen: 2.872 ng
RT: 15.017 min Scan# 1954
Delta R.T. -0.006 min
Lab File: BG057610.D
Acq: 30 May 2023 17:29

Tgt Ion:154 Resp: 11303
Ion Ratio Lower Upper
154 100
153 113.3 87.4 131.0
152 59.1 40.2 60.4

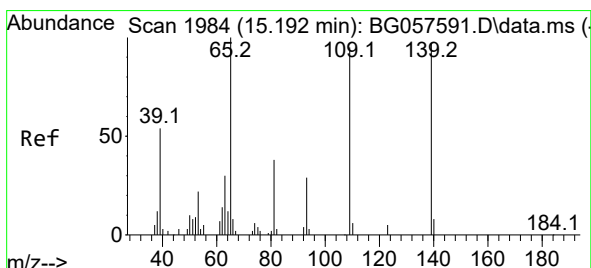
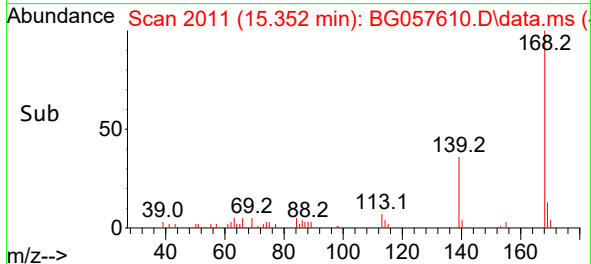
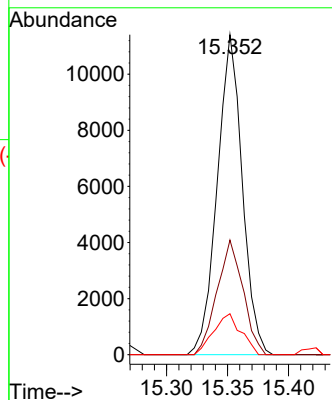
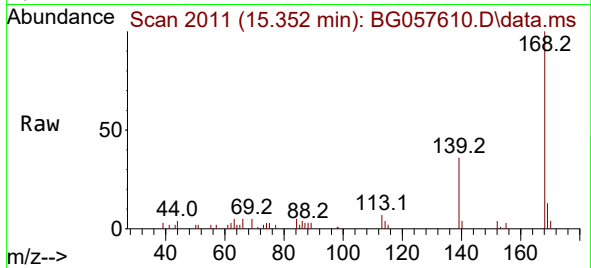




#55
Dibenzenofuran
Concen: 2.423 ng
RT: 15.352 min Scan# 2011
Delta R.T. 0.000 min
Lab File: BG057610.D
Acq: 30 May 2023 17:29

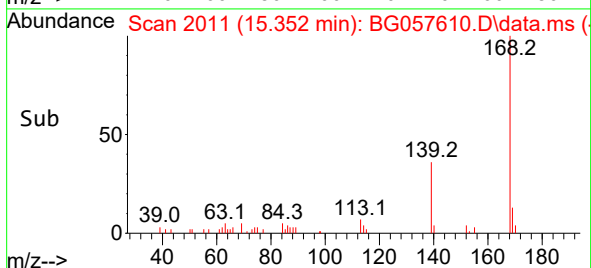
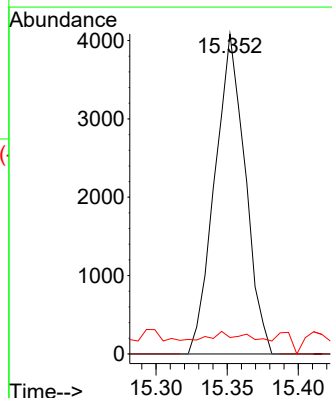
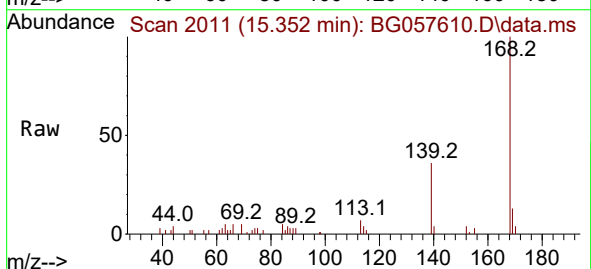
Instrument :
BNA_G
ClientSampleId :
DUP02

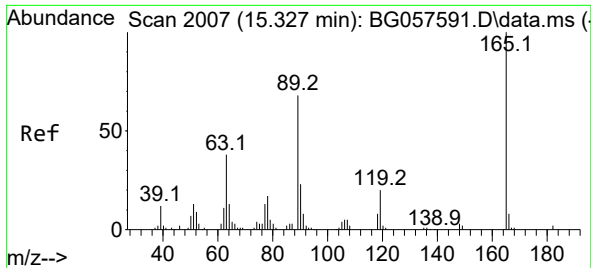
Tgt Ion:168 Resp: 16293
Ion Ratio Lower Upper
168 100
139 35.8 30.6 46.0
169 12.8 10.6 16.0



#56
4-Nitrophenol
Concen: 7.006 ng
RT: 15.352 min Scan# 2011
Delta R.T. 0.170 min
Lab File: BG057610.D
Acq: 30 May 2023 17:29

Tgt Ion:139 Resp: 6061
Ion Ratio Lower Upper
139 100
109 0.0 78.2 118.2#
65 5.1 83.2 123.2#





#57

2,4-Dinitrotoluene

Concen: 5.380 ng

RT: 14.958 min Scan# 1944

Delta R.T. -0.364 min

Lab File: BG057610.D

Acq: 30 May 2023 17:29

Instrument :

BNA_G

ClientSampleId :

DUP02

Tgt Ion:165 Resp: 10027

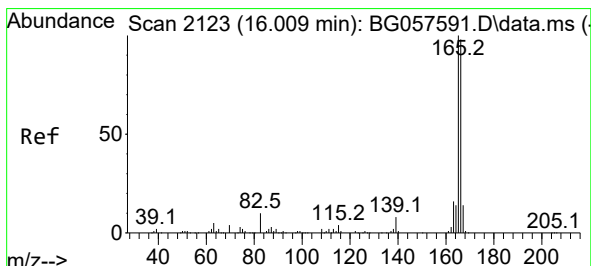
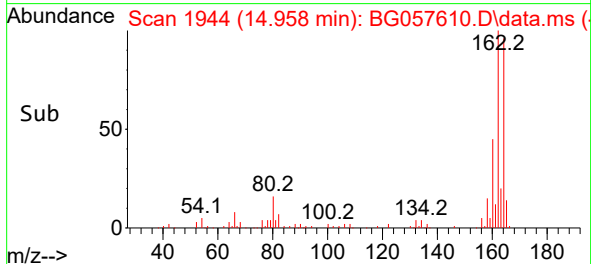
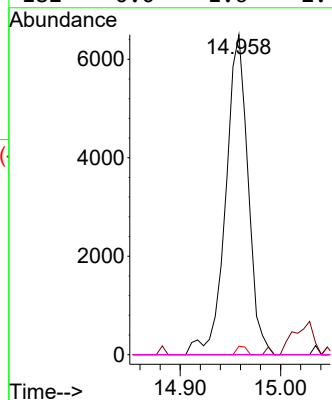
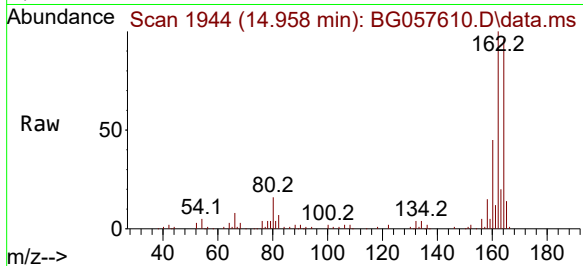
Ion Ratio Lower Upper

165 100

63 0.0 30.6 45.8#

89 2.6 54.2 81.2#

182 0.0 1.6 2.4#



#58

Fluorene

Concen: 4.070 ng

RT: 15.998 min Scan# 2121

Delta R.T. 0.000 min

Lab File: BG057610.D

Acq: 30 May 2023 17:29

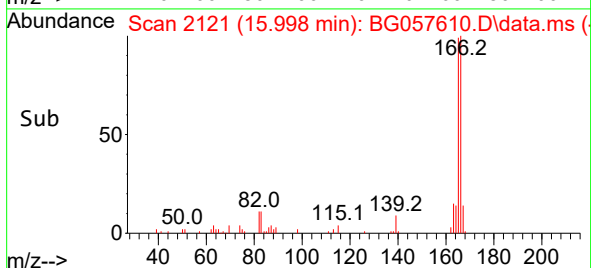
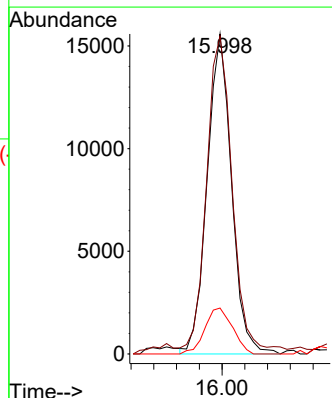
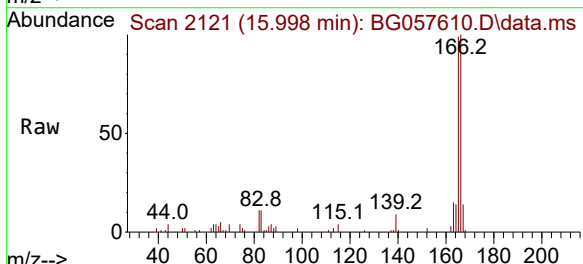
Tgt Ion:166 Resp: 23111

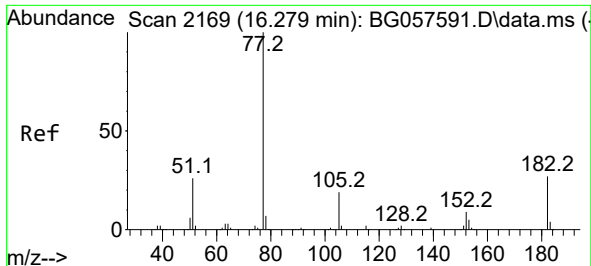
Ion Ratio Lower Upper

166 100

165 99.3 81.2 121.8

167 14.3 11.1 16.7

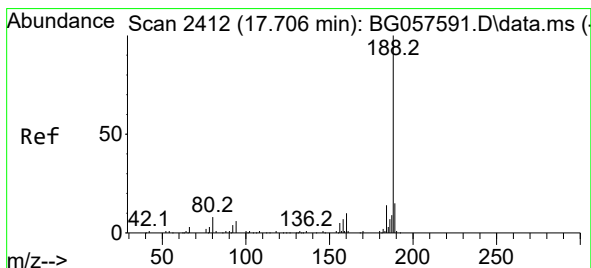
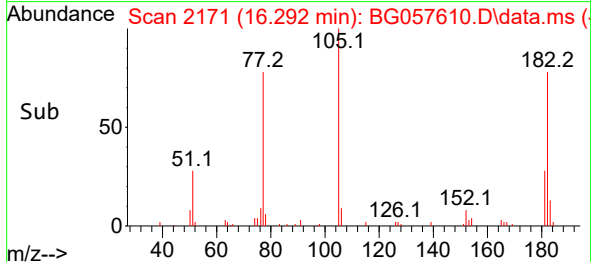
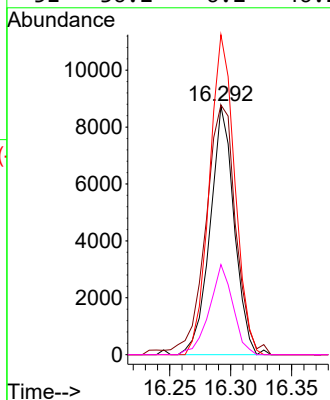
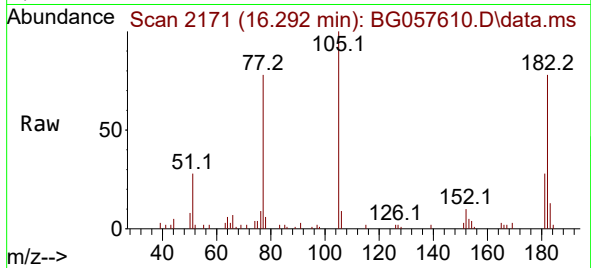




#63
Azobenzene
Concen: 2.223 ng
RT: 16.292 min Scan# 2169
Delta R.T. 0.024 min
Lab File: BG057610.D
Acq: 30 May 2023 17:29

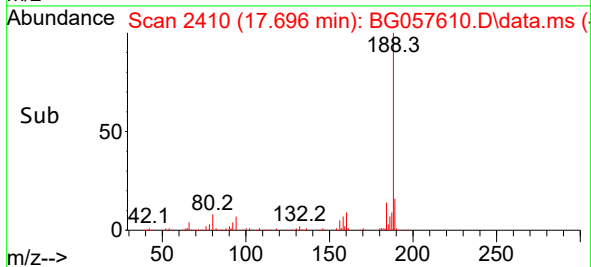
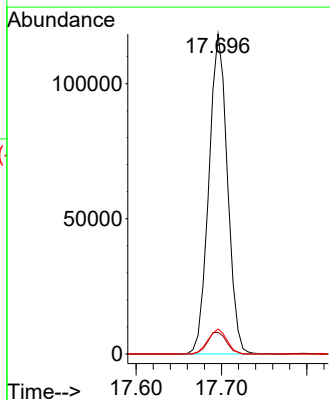
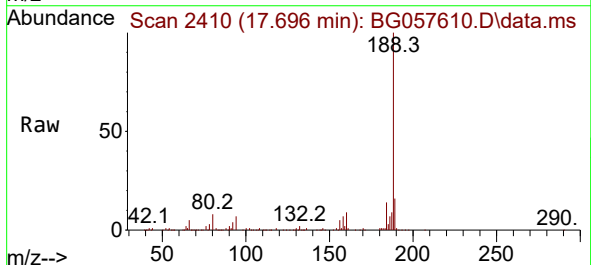
Instrument :
BNA_G
ClientSampleId :
DUP02

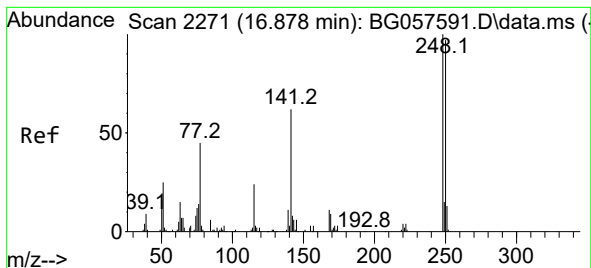
Tgt Ion: 77	Resp: 12000
Ion Ratio	Lower Upper
77 100	
182 100.5	7.4 47.4#
105 128.7	0.0 39.4#
51 36.2	6.2 46.2



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.696 min Scan# 2410
Delta R.T. 0.000 min
Lab File: BG057610.D
Acq: 30 May 2023 17:29

Tgt Ion: 188	Resp: 179035
Ion Ratio	Lower Upper
188 100	
94 6.7	5.2 7.8
80 7.8	6.7 10.1

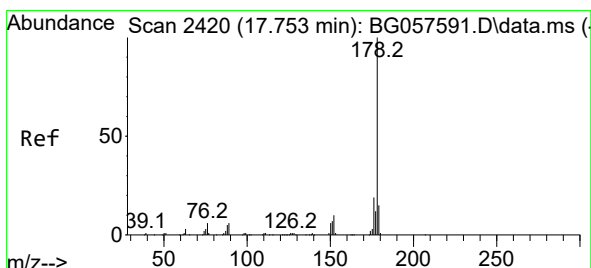
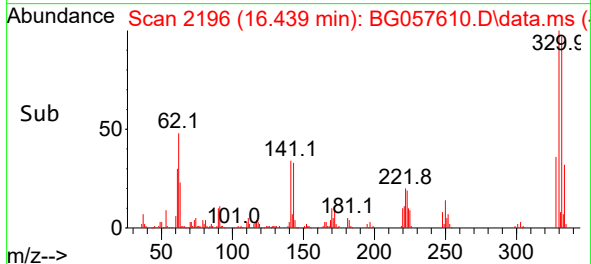
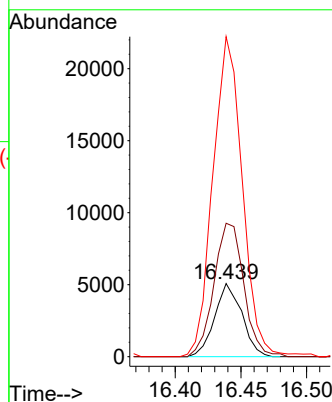
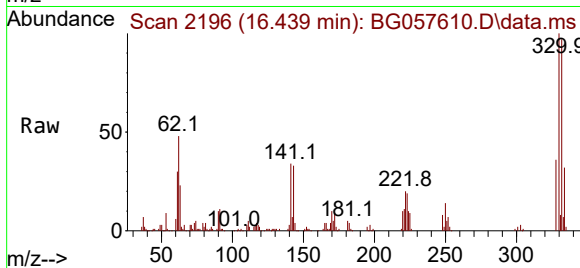




#67
4-Bromophenyl-phenylether
Concen: 3.648 ng
RT: 16.439 min Scan# 2196
Delta R.T. -0.435 min
Lab File: BG057610.D
Acq: 30 May 2023 17:29

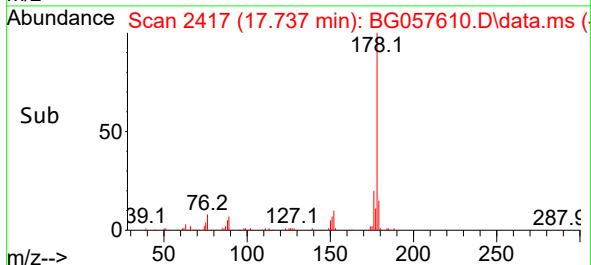
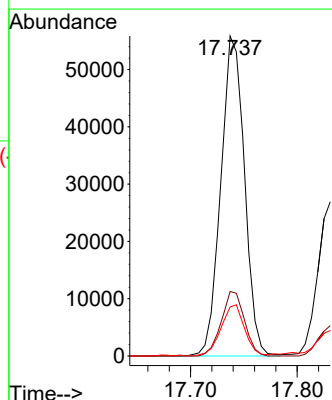
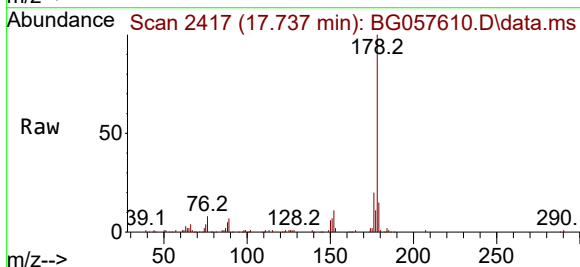
Instrument :
BNA_G
ClientSampleId :
DUP02

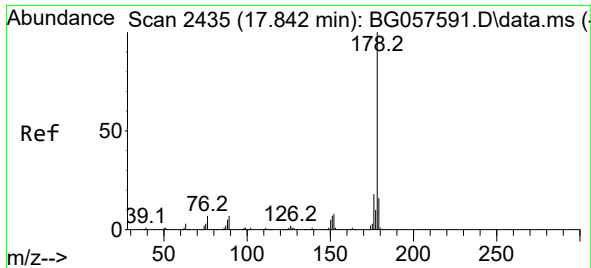
Tgt Ion:248 Resp: 7327
Ion Ratio Lower Upper
248 100
250 182.6 77.4 116.2#
141 437.6 49.4 74.0#



#71
Phenanthrene
Concen: 9.398 ng
RT: 17.737 min Scan# 2417
Delta R.T. -0.006 min
Lab File: BG057610.D
Acq: 30 May 2023 17:29

Tgt Ion:178 Resp: 86106
Ion Ratio Lower Upper
178 100
176 20.1 15.3 22.9
179 15.3 12.0 18.0

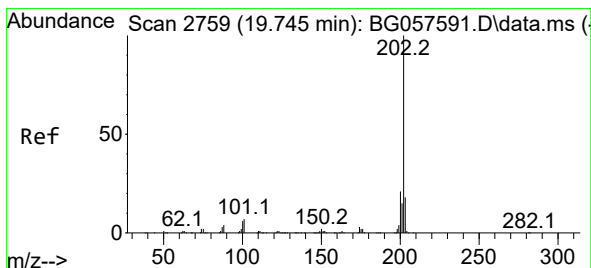
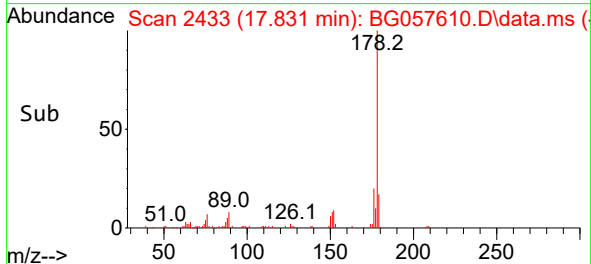
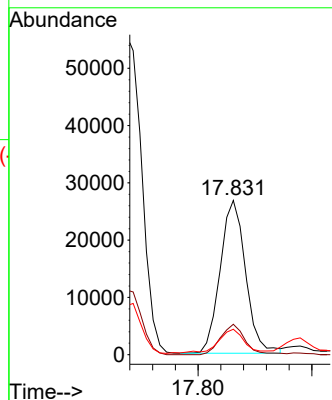
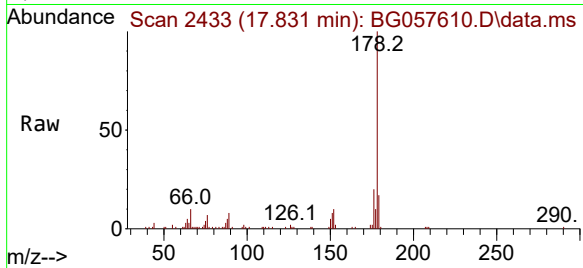




#72
 Anthracene
 Concen: 4.418 ng
 RT: 17.831 min Scan# 2435
 Delta R.T. 0.000 min
 Lab File: BG057610.D
 Acq: 30 May 2023 17:29

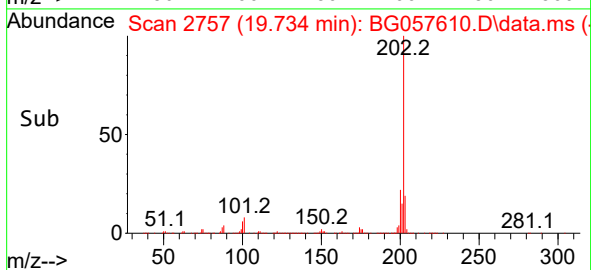
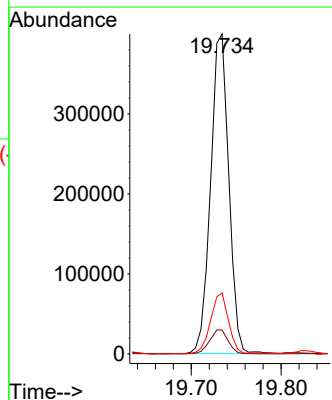
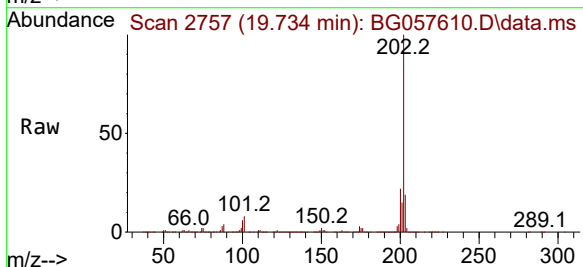
Instrument :
 BNA_G
 ClientSampleId :
 DUP02

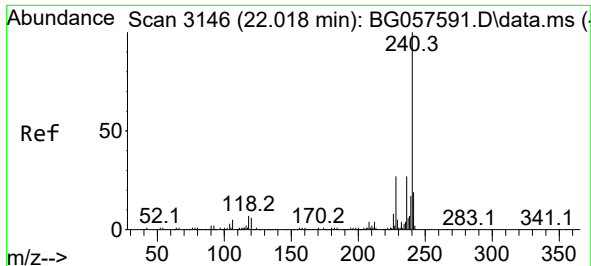
Tgt Ion:178 Resp: 41526
 Ion Ratio Lower Upper
 178 100
 176 19.7 14.6 22.0
 179 16.5 12.6 18.8



#75
 Fluoranthene
 Concen: 47.266 ng
 RT: 19.734 min Scan# 2757
 Delta R.T. 0.006 min
 Lab File: BG057610.D
 Acq: 30 May 2023 17:29

Tgt Ion:202 Resp: 562180
 Ion Ratio Lower Upper
 202 100
 101 7.5 0.0 27.5
 203 19.1 0.0 38.4

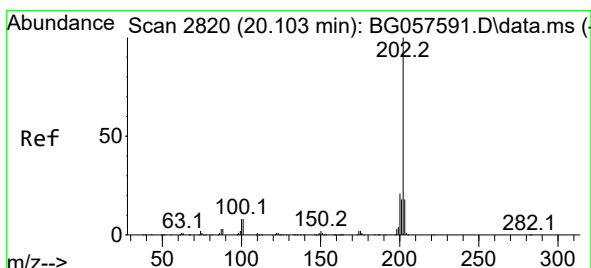
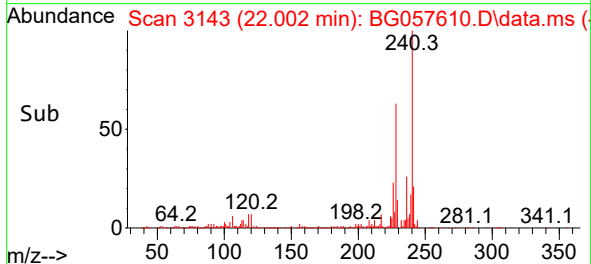
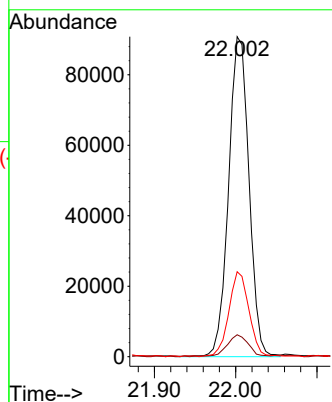
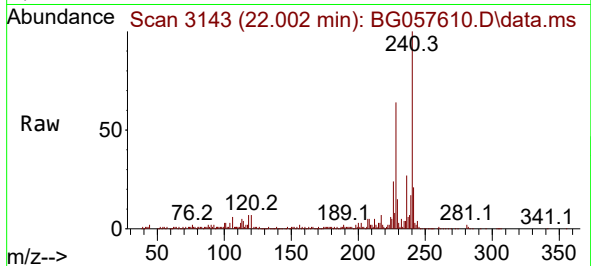




#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.002 min Scan# 3146
Delta R.T. 0.000 min
Lab File: BG057610.D
Acq: 30 May 2023 17:29

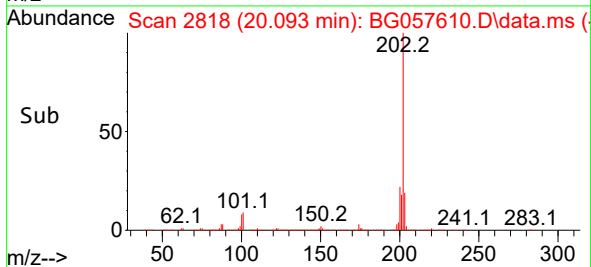
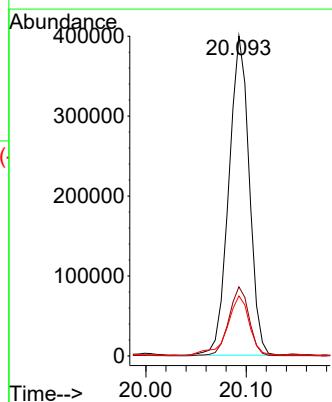
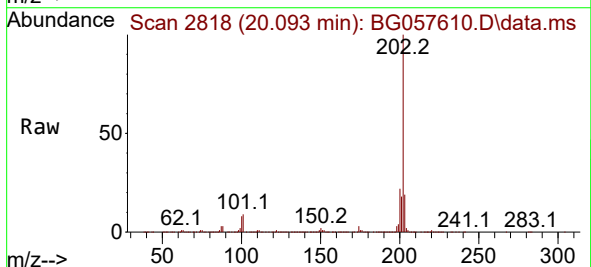
Instrument :
BNA_G
ClientSampleId :
DUP02

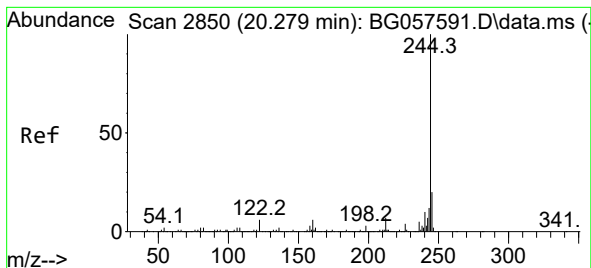
Tgt Ion:240 Resp: 158366
Ion Ratio Lower Upper
240 100
120 6.9 5.2 7.8
236 26.6 21.4 32.0



#78
Pyrene
Concen: 49.793 ng
RT: 20.093 min Scan# 2818
Delta R.T. 0.000 min
Lab File: BG057610.D
Acq: 30 May 2023 17:29

Tgt Ion:202 Resp: 561464
Ion Ratio Lower Upper
202 100
200 21.6 16.8 25.2
203 18.7 14.5 21.7





#79

Terphenyl-d14

Concen: 59.537 ng

RT: 20.263 min Scan# 21

Delta R.T. -0.006 min

Lab File: BG057610.D

Acq: 30 May 2023 17:29

Instrument :

BNA_G

ClientSampleId :

DUP02

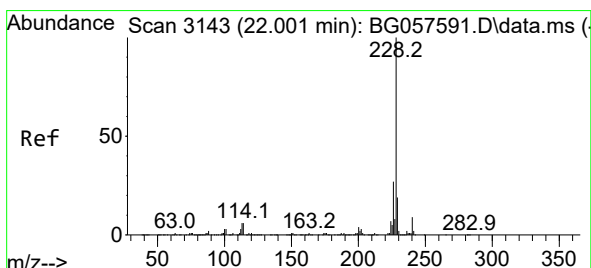
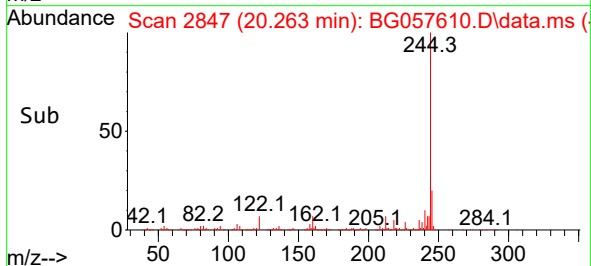
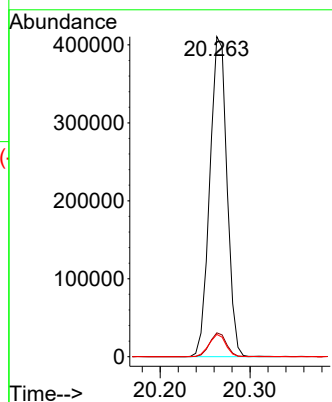
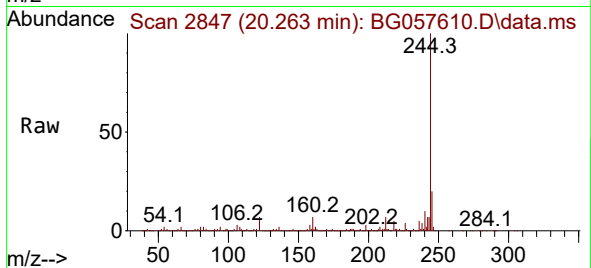
Tgt Ion:244 Resp: 544308

Ion Ratio Lower Upper

244 100

212 7.4 5.6 8.4

122 6.9 4.8 7.2



#81

Benzo(a)anthracene

Concen: 35.613 ng

RT: 21.984 min Scan# 3140

Delta R.T. 0.006 min

Lab File: BG057610.D

Acq: 30 May 2023 17:29

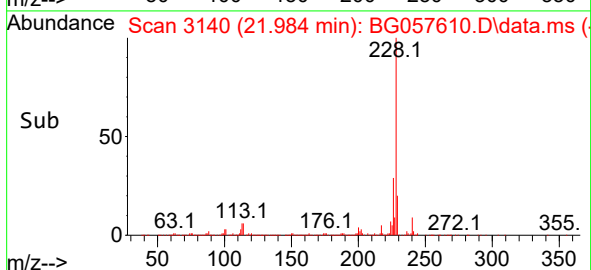
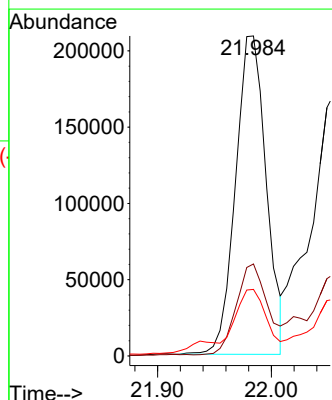
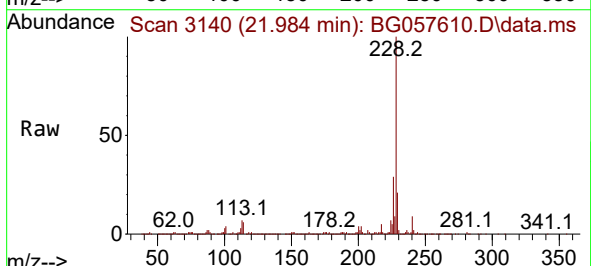
Tgt Ion:228 Resp: 391275

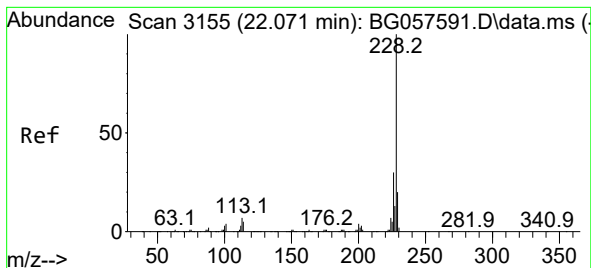
Ion Ratio Lower Upper

228 100

226 28.7 21.4 32.0

229 20.8 15.4 23.2





#83

Chrysene

Concen: 35.796 ng

RT: 22.055 min Scan# 31

Delta R.T. 0.000 min

Lab File: BG057610.D

Acq: 30 May 2023 17:29

Instrument :

BNA_G

ClientSampleId :

DUP02

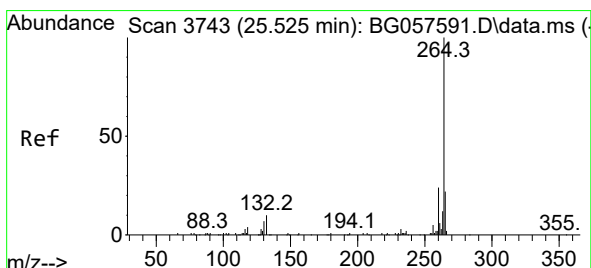
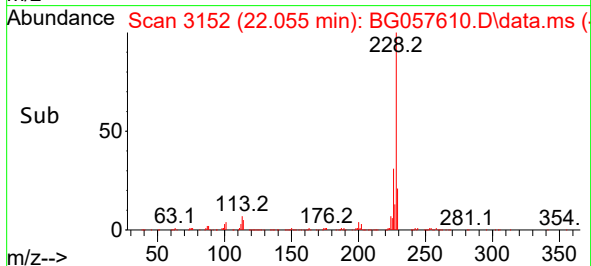
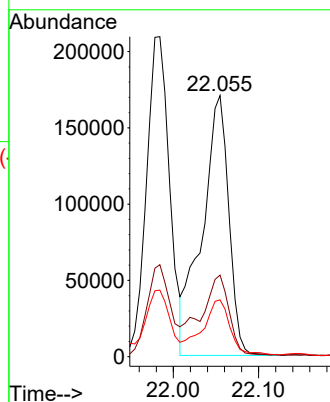
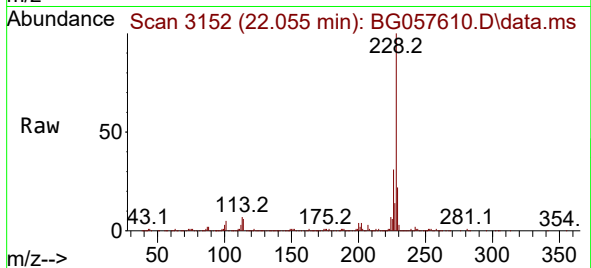
Tgt Ion:228 Resp: 371659

Ion Ratio Lower Upper

228 100

226 31.3 24.3 36.5

229 21.7 16.0 24.0



#86

Perylene-d12

Concen: 20.000 ng

RT: 25.497 min Scan# 3738

Delta R.T. 0.006 min

Lab File: BG057610.D

Acq: 30 May 2023 17:29

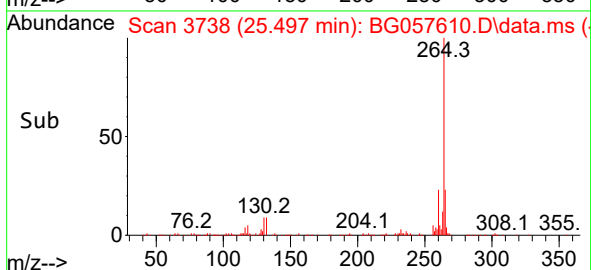
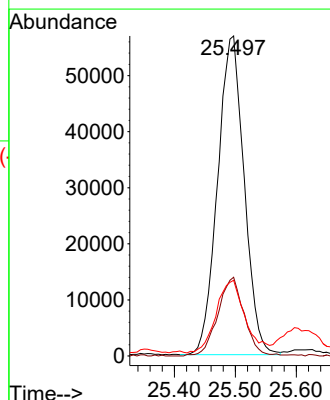
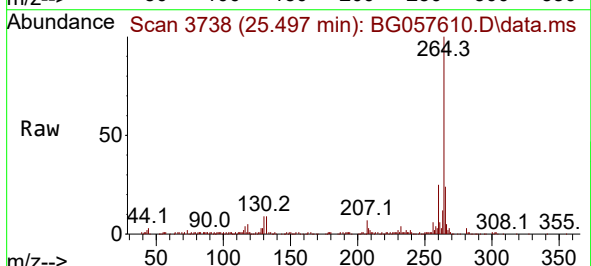
Tgt Ion:264 Resp: 172005

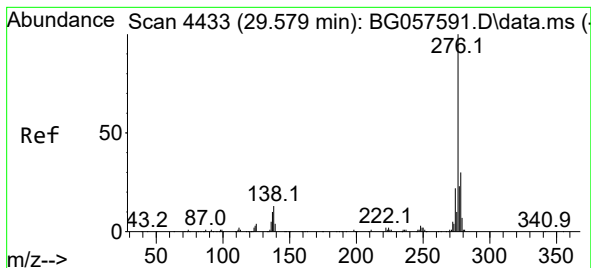
Ion Ratio Lower Upper

264 100

260 24.6 19.1 28.7

265 23.6 17.7 26.5





#87

Indeno(1,2,3-cd)pyrene

Concen: 25.207 ng

RT: 29.539 min Scan# 4426

Delta R.T. 0.018 min

Lab File: BG057610.D

Acq: 30 May 2023 17:29

Instrument :

BNA_G

ClientSampleId :

DUP02

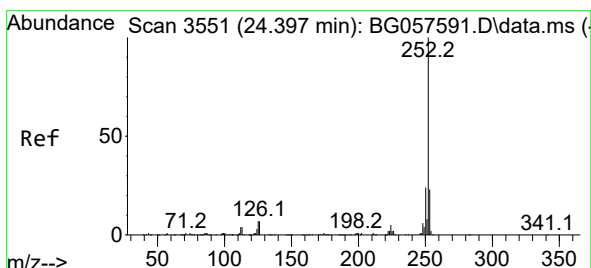
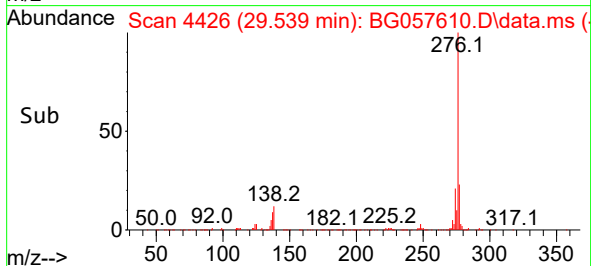
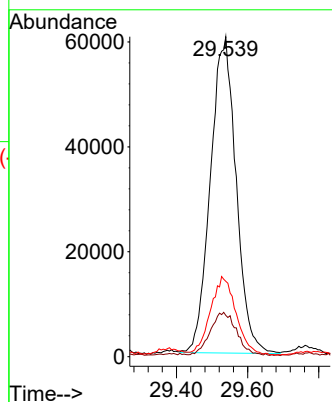
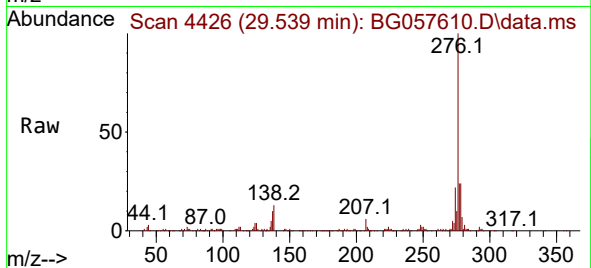
Tgt Ion:276 Resp: 302284

Ion Ratio Lower Upper

276 100

138 13.6 12.3 18.5

277 25.2 20.5 30.7



#88

Benzo(b)fluoranthene

Concen: 59.597 ng

RT: 24.381 min Scan# 3548

Delta R.T. 0.006 min

Lab File: BG057610.D

Acq: 30 May 2023 17:29

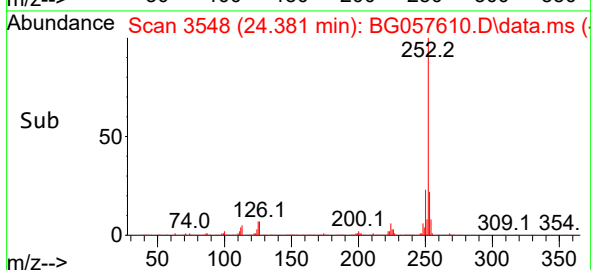
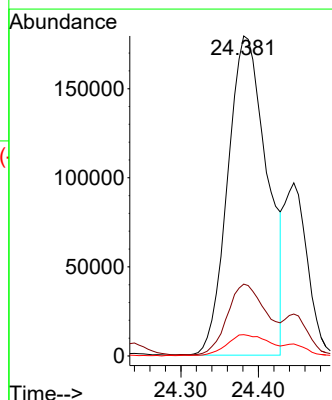
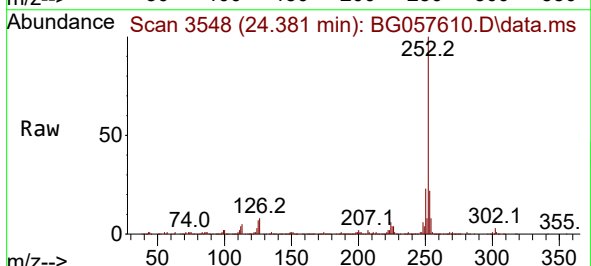
Tgt Ion:252 Resp: 630974

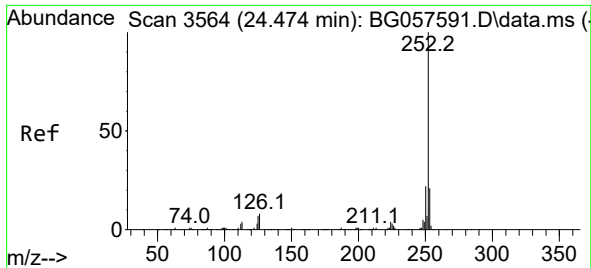
Ion Ratio Lower Upper

252 100

253 22.5 18.4 27.6

125 6.6 5.2 7.8

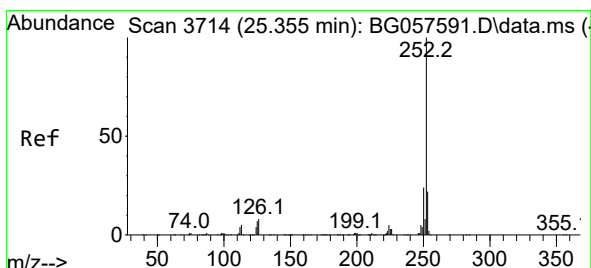
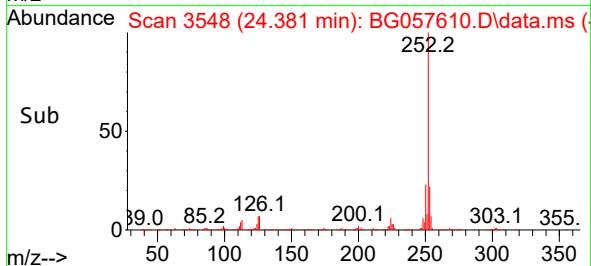
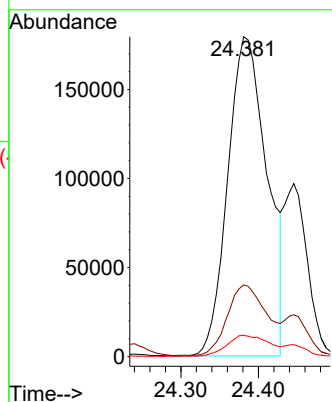
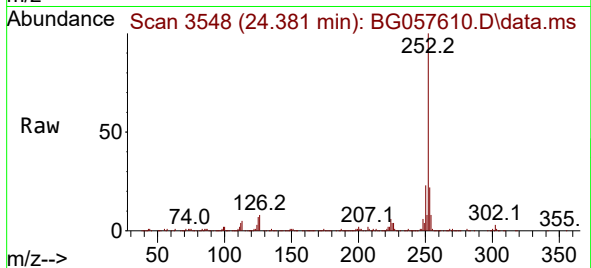




#89
Benzo(k)fluoranthene
Concen: 59.052 ng
RT: 24.381 min Scan# 31
Delta R.T. -0.065 min
Lab File: BG057610.D
Acq: 30 May 2023 17:29

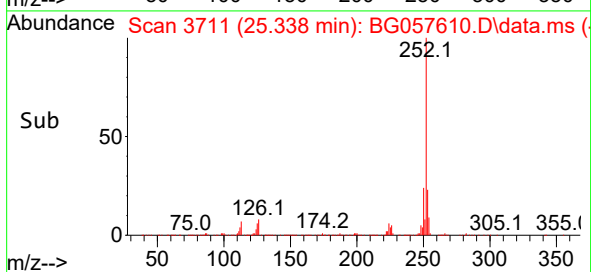
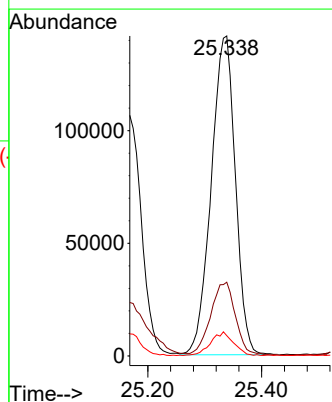
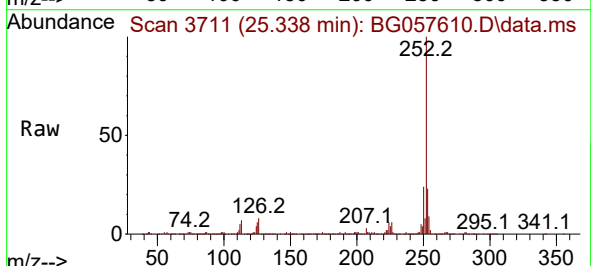
Instrument :
BNA_G
ClientSampleId :
DUP02

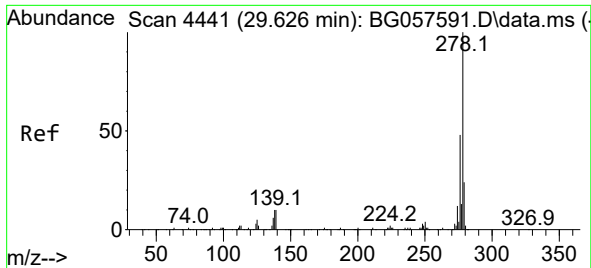
Tgt Ion:252 Resp: 630974
Ion Ratio Lower Upper
252 100
253 22.5 17.0 25.6
125 6.6 5.1 7.7



#90
Benzo(a)pyrene
Concen: 40.415 ng
RT: 25.338 min Scan# 3711
Delta R.T. 0.012 min
Lab File: BG057610.D
Acq: 30 May 2023 17:29

Tgt Ion:252 Resp: 417290
Ion Ratio Lower Upper
252 100
253 23.1 17.7 26.5
125 6.4 5.3 7.9

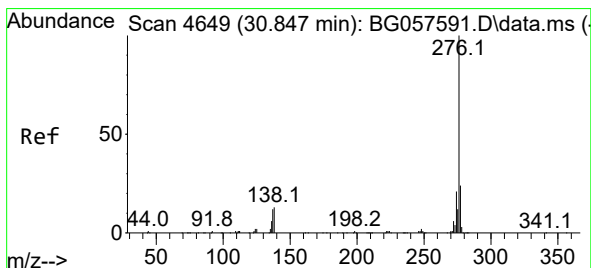
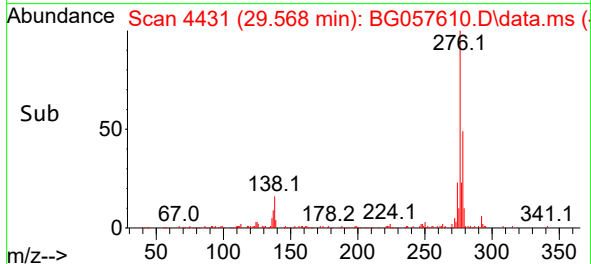
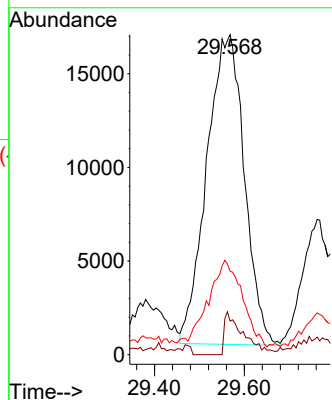
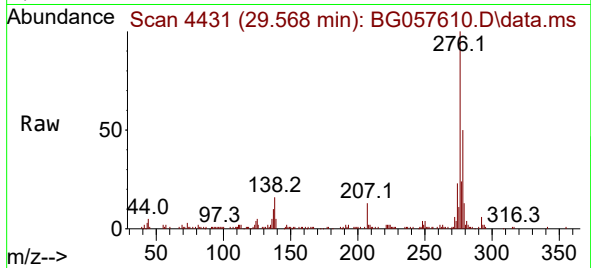




#91
Dibenzo(a,h)anthracene
Concen: 9.625 ng
RT: 29.568 min Scan# 4431
Delta R.T. -0.012 min
Lab File: BG057610.D
Acq: 30 May 2023 17:29

Instrument :
BNA_G
ClientSampleId :
DUP02

Tgt Ion:278 Resp: 96066
Ion Ratio Lower Upper
278 100
139 10.5 7.8 11.8
279 26.1 19.1 28.7



#92
Benzo(g,h,i)perylene
Concen: 27.867 ng
RT: 30.808 min Scan# 4642
Delta R.T. 0.006 min
Lab File: BG057610.D
Acq: 30 May 2023 17:29

Tgt Ion:276 Resp: 271251
Ion Ratio Lower Upper
276 100
277 25.0 18.9 28.3
138 14.2 10.2 15.4

