

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG050824\
 Data File : BG061143.D
 Acq On : 8 May 2024 15:47
 Operator : MA/JU
 Sample : P2408-01
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 BIN-1

Quant Time: May 08 16:30:48 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG043024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 01 05:11:25 2024
 Response via : Initial Calibration

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

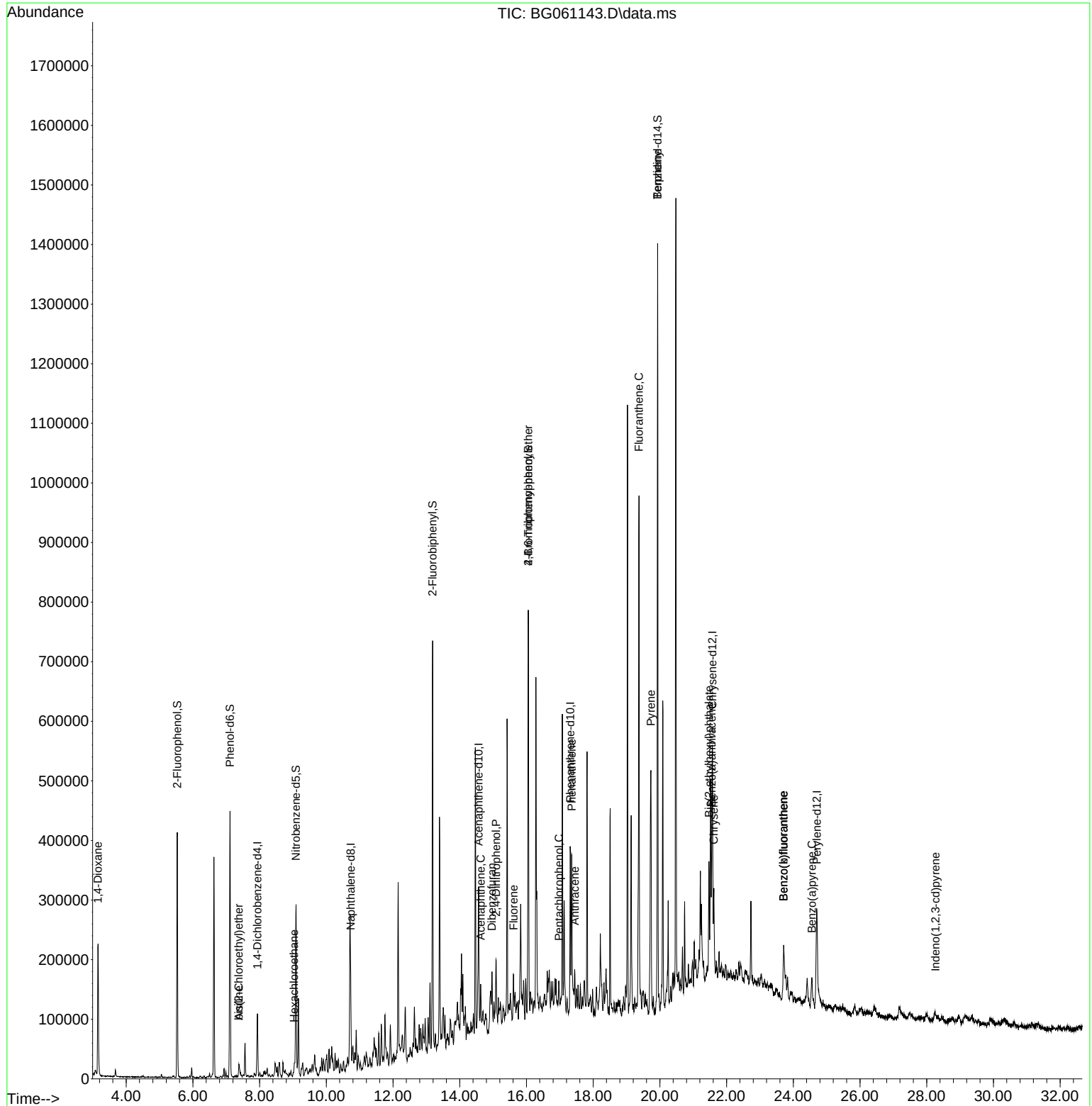
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.935	152	26600	20.000	ng	-0.03
21) Naphthalene-d8	10.732	136	103449	20.000	ng	#-0.03
39) Acenaphthene-d10	14.568	164	77091	20.000	ng	-0.02
64) Phenanthrene-d10	17.312	188	167841	20.000	ng	-0.02
76) Chrysene-d12	21.578	240	174368	20.000	ng	-0.01
86) Perylene-d12	24.704	264	212230	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.532	112	146076	111.684	ng	-0.01
7) Phenol-d6	7.112	99	197305	101.974	ng	-0.02
23) Nitrobenzene-d5	9.092	82	145770	69.852	ng	-0.03
42) 2,4,6-Tribromophenol	16.055	330	142858	92.710	ng	-0.02
45) 2-Fluorobiphenyl	13.188	172	355570	68.203	ng	-0.02
79) Terphenyl-d14	19.933	244	616386	58.792	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.152	88	1958	3.702	ng	# 1
6) Aniline	7.377	93	7857	4.096	ng	# 56
9) Benzaldehyde	7.101	77	750	Below Cal		# 3
11) bis(2-Chloroethyl)ether	7.377	93	7857	5.780	ng	# 15
18) Hexachloroethane	9.034	117	1425	2.043	ng	# 1
52) Acenaphthene	14.627	154	22222	5.860	ng	95
54) 2,4-Dinitrophenol	15.091	184	116	2.332	ng	# 39
55) Dibenzofuran	14.962	168	24352	3.802	ng	# 94
58) Fluorene	15.614	166	25285	4.562	ng	# 91
67) 4-Bromophenyl-phenylether	16.055	248	9583	4.847	ng	# 1
70) Pentachlorophenol	16.977	266	5023	3.322	ng	# 85
71) Phenanthrene	17.359	178	165608	21.579	ng	97
72) Anthracene	17.447	178	35336	4.614	ng	96
75) Fluoranthene	19.375	202	360715	34.309	ng	100
77) Benzidine	19.933	184	10672	5.824	ng	# 86
78) Pyrene	19.733	202	269066	24.272	ng	98
81) Benzo(a)anthracene	21.554	228	99810	8.747	ng	98
83) Chrysene	21.619	228	102659	9.603	ng	97
84) Bis(2-ethylhexyl)phtha...	21.472	149	15132	3.302	ng	# 93
87) Indeno(1,2,3-cd)pyrene	28.264	276	29108	2.070	ng	# 56
88) Benzo(b)fluoranthene	23.711	252	106363	8.969	ng	# 98
89) Benzo(k)fluoranthene	23.711	252	106363	9.323	ng	# 96
90) Benzo(a)pyrene	24.557	252	57759	5.590	ng	# 93

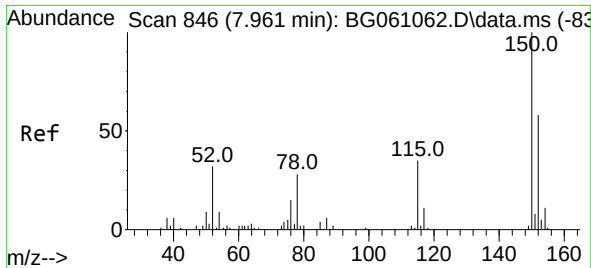
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG050824\
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Instrument :
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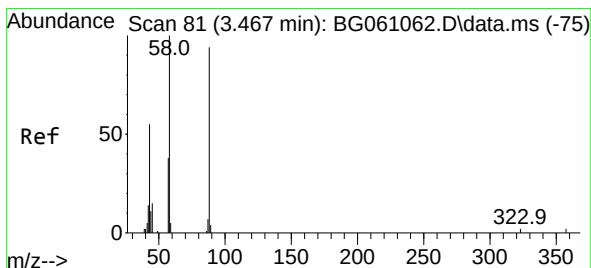
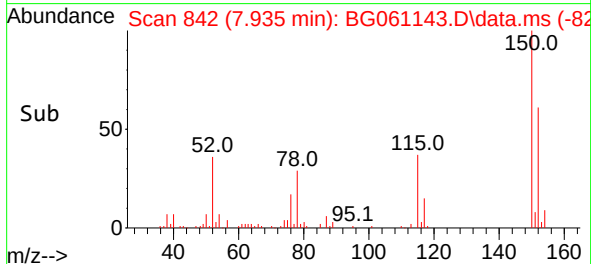
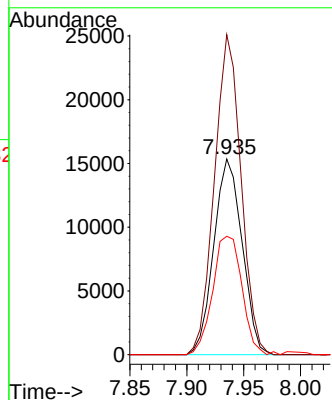
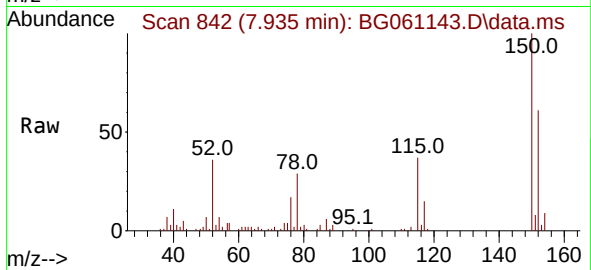




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.935 min Scan# 84
 Delta R.T. -0.026 min
 Lab File: BG061143.D
 Acq: 8 May 2024 15:47

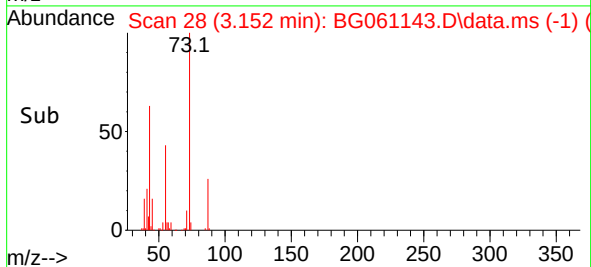
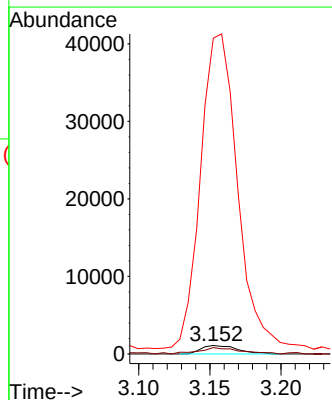
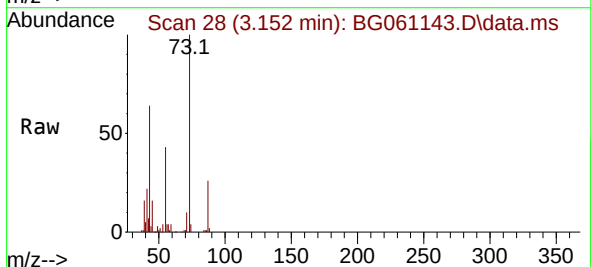
Instrument :
 BNA_G
 ClientSampleId :
 BIN-1

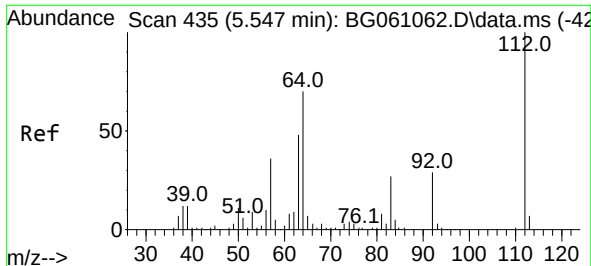
Tgt Ion:152 Resp: 26600
 Ion Ratio Lower Upper
 152 100
 150 163.6 138.3 207.5
 115 60.5 48.0 72.0



#2
 1,4-Dioxane
 Concen: 3.702 ng
 RT: 3.152 min Scan# 28
 Delta R.T. -0.314 min
 Lab File: BG061143.D
 Acq: 8 May 2024 15:47

Tgt Ion: 88 Resp: 1958
 Ion Ratio Lower Upper
 88 100
 58 87.2 81.2 121.8
 43 3812.3 45.0 67.4#

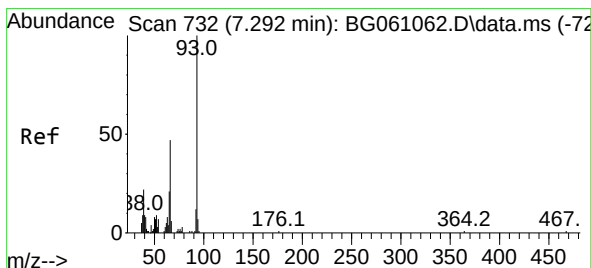
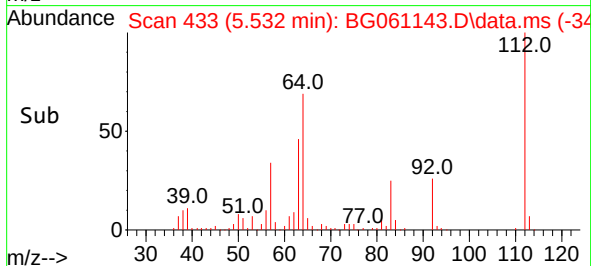
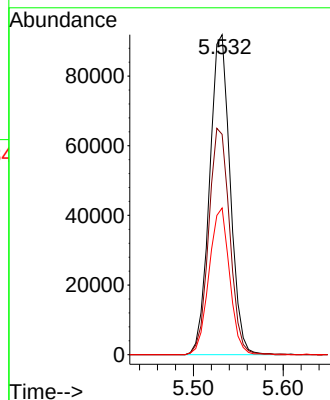
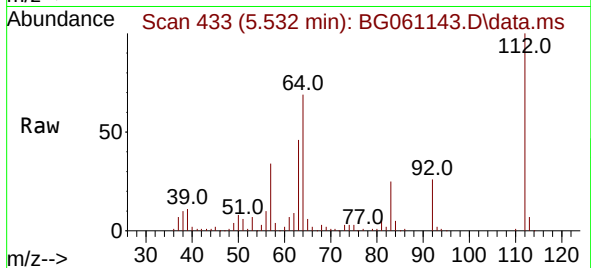




#5
2-Fluorophenol
Concen: 111.684 ng
RT: 5.532 min Scan# 411
Delta R.T. -0.015 min
Lab File: BG061143.D
Acq: 8 May 2024 15:47

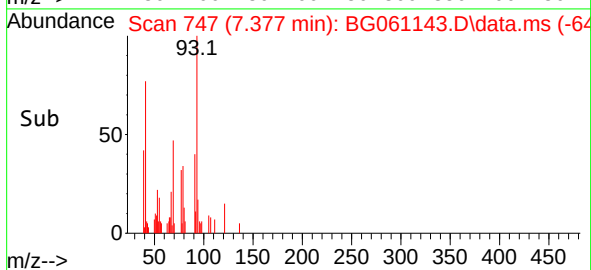
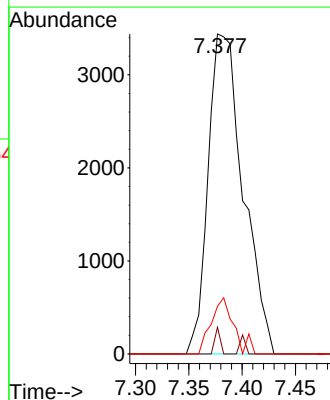
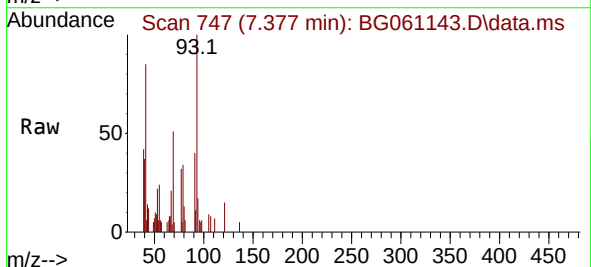
Instrument :
BNA_G
ClientSampleId :
BIN-1

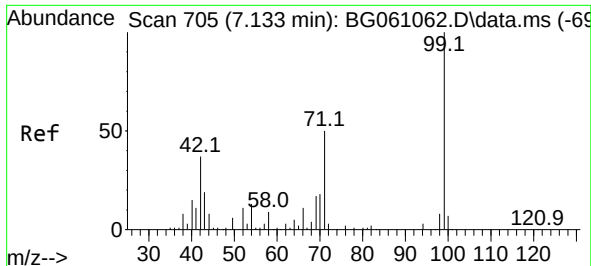
Tgt Ion:112 Resp: 146076
Ion Ratio Lower Upper
112 100
64 68.9 55.7 83.5
63 45.8 38.1 57.1



#6
Aniline
Concen: 4.096 ng
RT: 7.377 min Scan# 747
Delta R.T. 0.085 min
Lab File: BG061143.D
Acq: 8 May 2024 15:47

Tgt Ion: 93 Resp: 7857
Ion Ratio Lower Upper
93 100
66 8.4 37.4 56.0#
65 14.9 16.6 24.8#

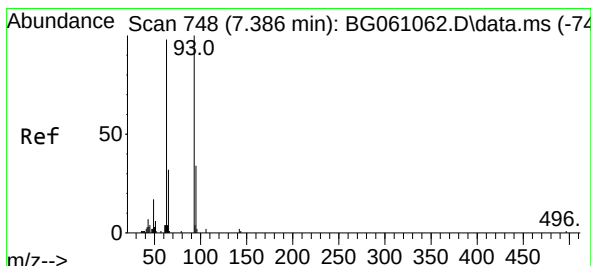
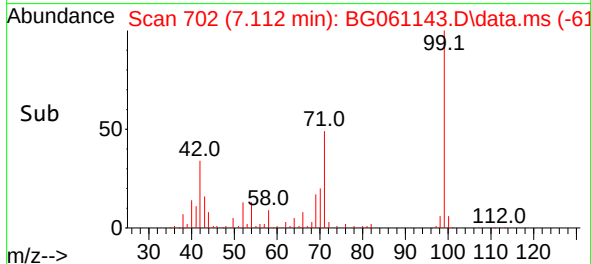
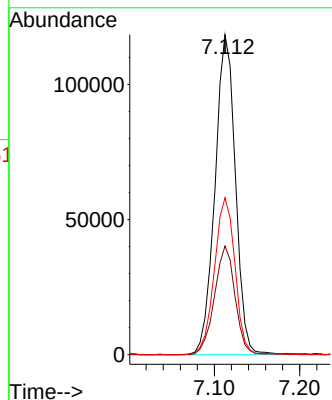
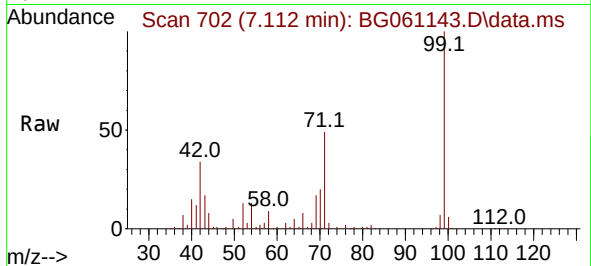




#7
Phenol-d6
Concen: 101.974 ng
RT: 7.112 min Scan# 705
Delta R.T. -0.020 min
Lab File: BG061143.D
Acq: 8 May 2024 15:47

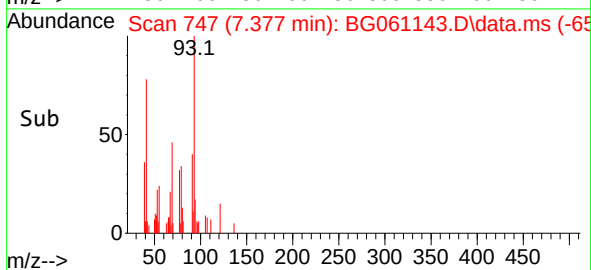
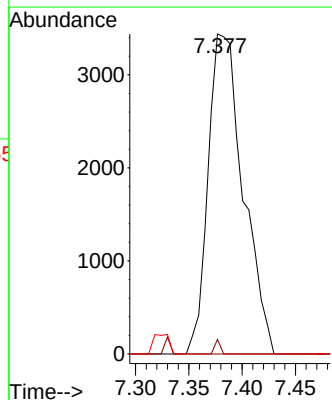
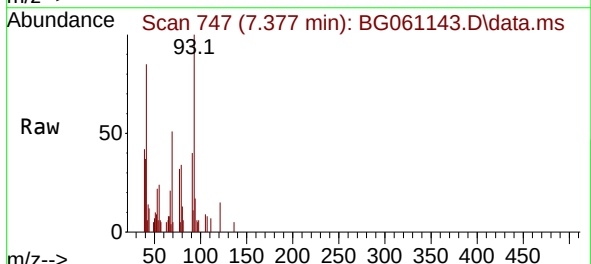
Instrument :
BNA_G
ClientSampleId :
BIN-1

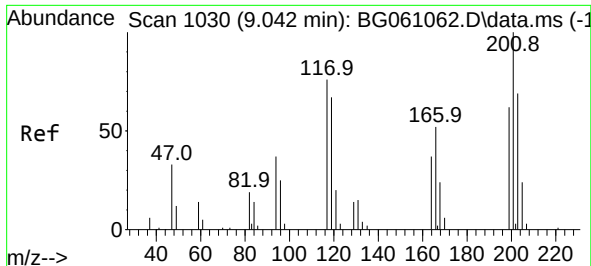
Tgt Ion: 99 Resp: 197305
Ion Ratio Lower Upper
99 100
42 34.0 29.2 43.8
71 49.1 39.7 59.5



#11
bis(2-Chloroethyl)ether
Concen: 5.780 ng
RT: 7.377 min Scan# 747
Delta R.T. -0.009 min
Lab File: BG061143.D
Acq: 8 May 2024 15:47

Tgt Ion: 93 Resp: 7857
Ion Ratio Lower Upper
93 100
63 4.6 76.8 116.8#
95 0.0 13.6 53.6#

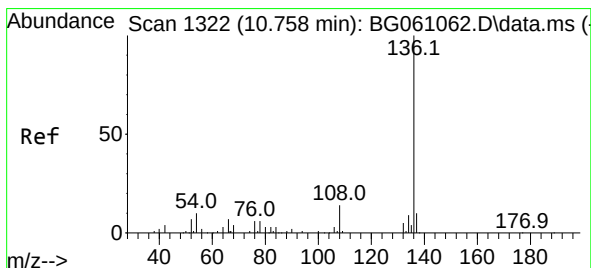
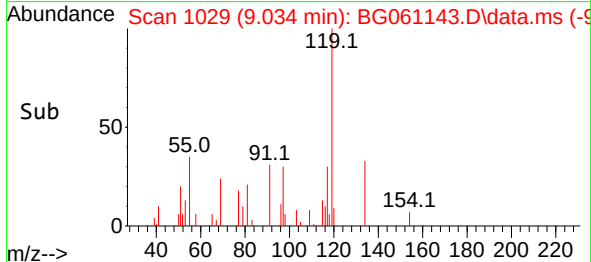
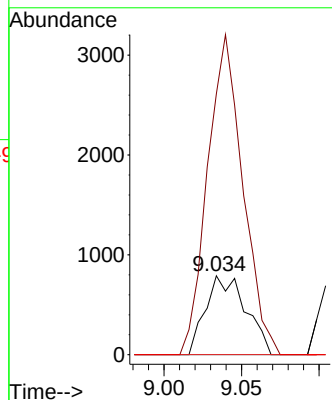
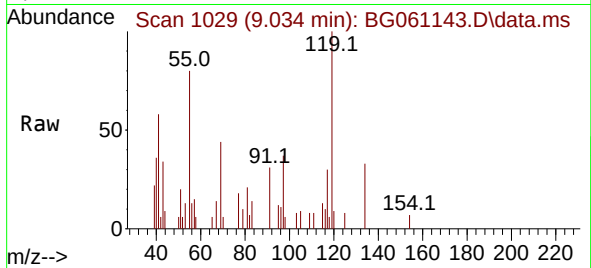




#18
Hexachloroethane
Concen: 2.043 ng
RT: 9.034 min Scan# 117
Delta R.T. -0.009 min
Lab File: BG061143.D
Acq: 8 May 2024 15:47

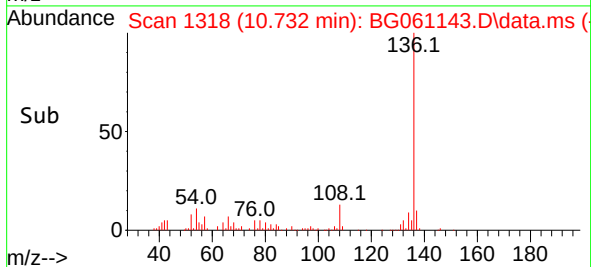
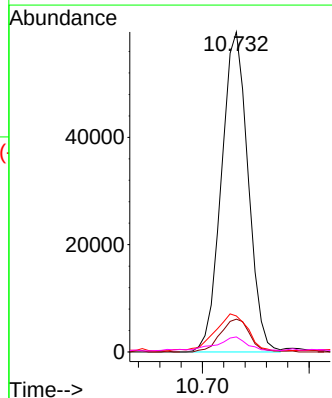
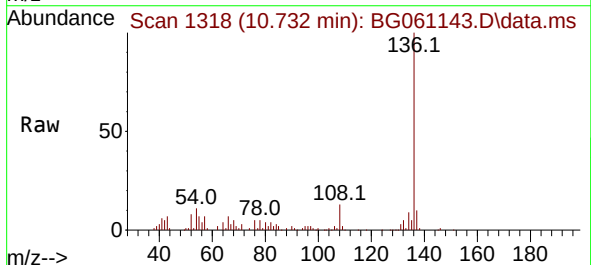
Instrument :
BNA_G
ClientSampleId :
BIN-1

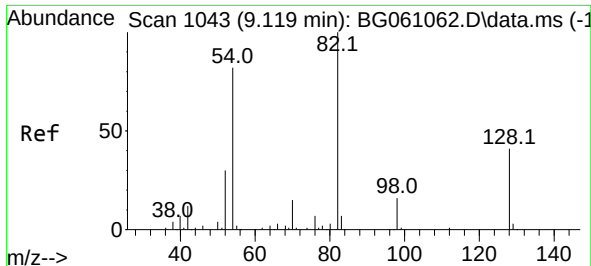
Tgt Ion:117 Resp: 1425
Ion Ratio Lower Upper
117 100
119 330.6 71.4 107.0#
201 0.0 105.8 158.8#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.732 min Scan# 1318
Delta R.T. -0.026 min
Lab File: BG061143.D
Acq: 8 May 2024 15:47

Tgt Ion:136 Resp: 103449
Ion Ratio Lower Upper
136 100
137 10.2 7.8 11.6
54 11.2 8.1 12.1
68 4.7 3.0 4.4#





#23

Nitrobenzene-d5

Concen: 69.852 ng

RT: 9.092 min Scan# 1039

Delta R.T. -0.026 min

Lab File: BG061143.D

Acq: 8 May 2024 15:47

Instrument :

BNA_G

ClientSampleId :

BIN-1

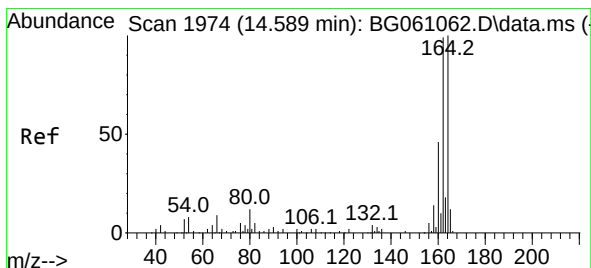
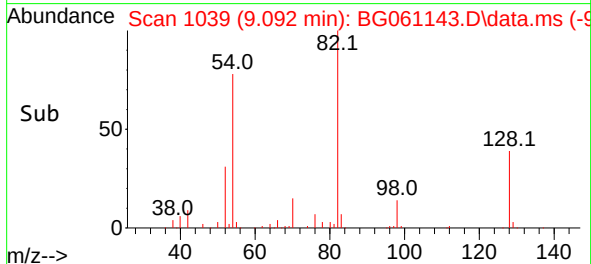
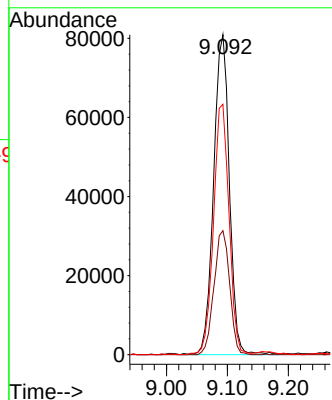
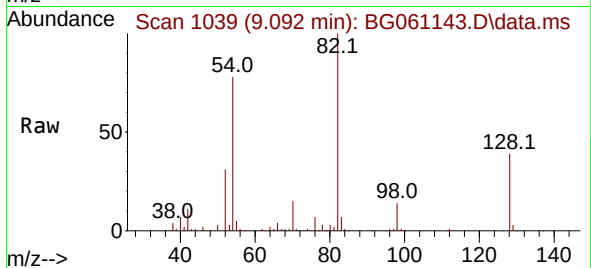
Tgt Ion: 82 Resp: 145770

Ion Ratio Lower Upper

82 100

128 38.8 32.7 49.1

54 78.2 65.6 98.4



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.568 min Scan# 1971

Delta R.T. -0.020 min

Lab File: BG061143.D

Acq: 8 May 2024 15:47

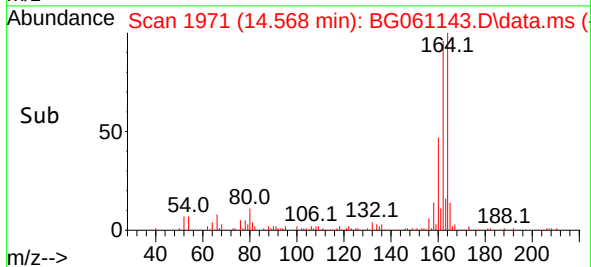
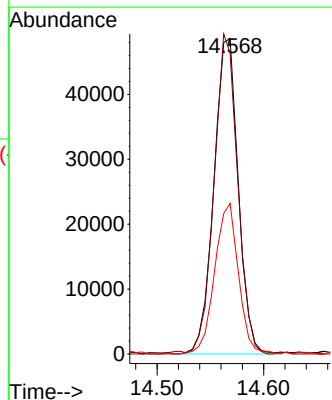
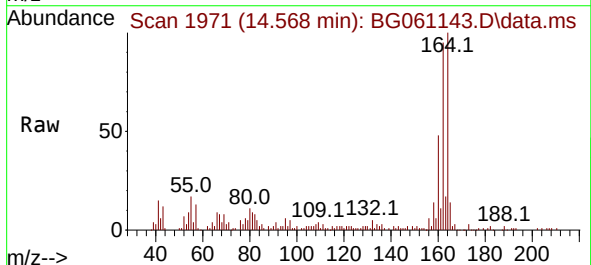
Tgt Ion:164 Resp: 77091

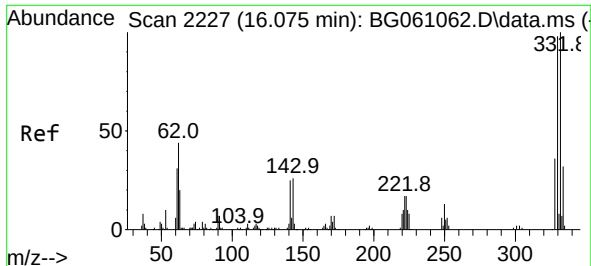
Ion Ratio Lower Upper

164 100

162 95.2 79.4 119.2

160 47.7 37.0 55.6





#42

2,4,6-Tribromophenol

Concen: 92.710 ng

RT: 16.055 min Scan# 21

Delta R.T. -0.020 min

Lab File: BG061143.D

Acq: 8 May 2024 15:47

Instrument :

BNA_G

ClientSampleId :

BIN-1

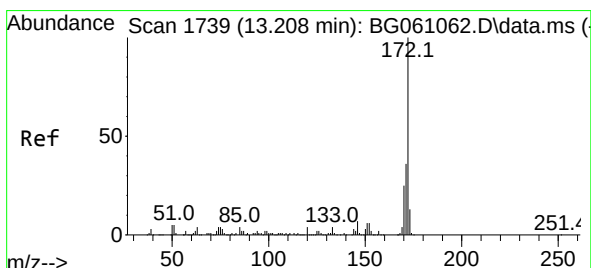
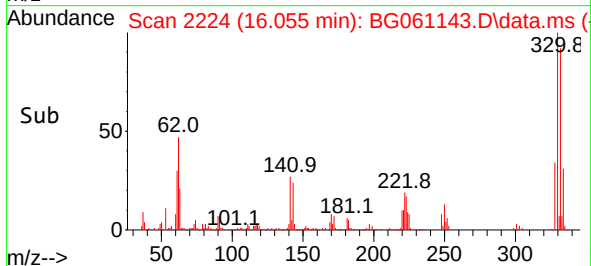
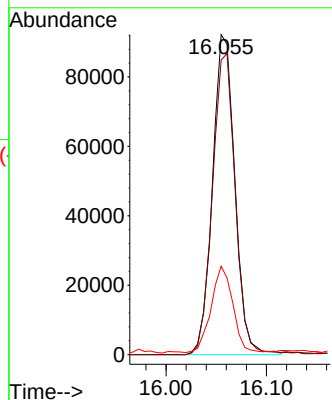
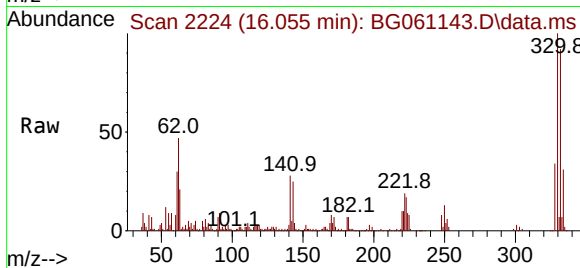
Tgt Ion:330 Resp: 142858

Ion Ratio Lower Upper

330 100

332 96.3 78.6 117.8

141 26.1 20.5 30.7



#45

2-Fluorobiphenyl

Concen: 68.203 ng

RT: 13.188 min Scan# 1736

Delta R.T. -0.020 min

Lab File: BG061143.D

Acq: 8 May 2024 15:47

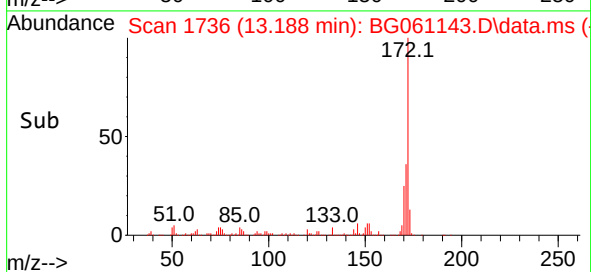
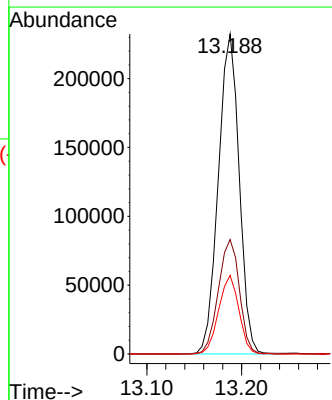
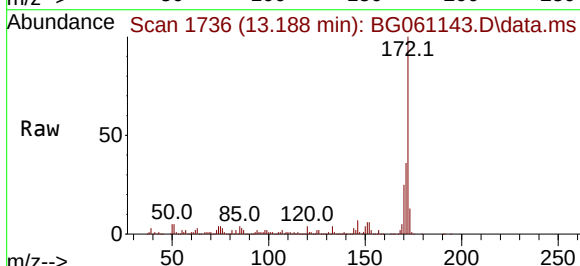
Tgt Ion:172 Resp: 355570

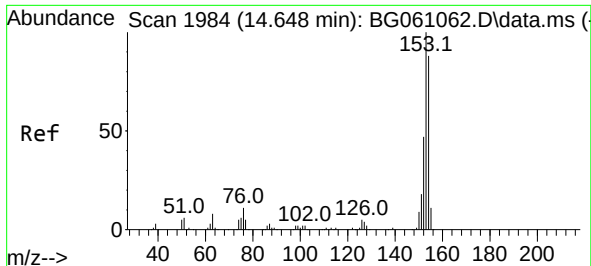
Ion Ratio Lower Upper

172 100

171 35.8 29.0 43.6

170 24.5 20.2 30.4

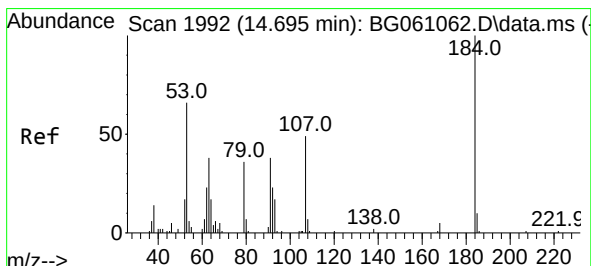
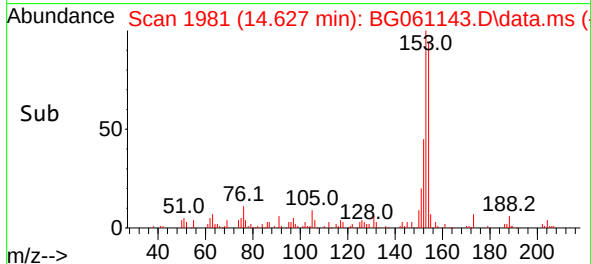
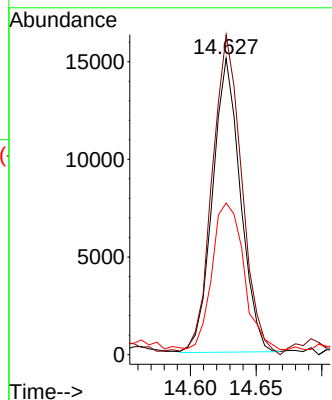
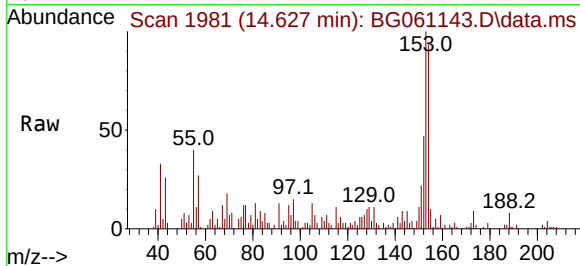




#52
Acenaphthene
Concen: 5.860 ng
RT: 14.627 min Scan# 1984
Delta R.T. -0.020 min
Lab File: BG061143.D
Acq: 8 May 2024 15:47

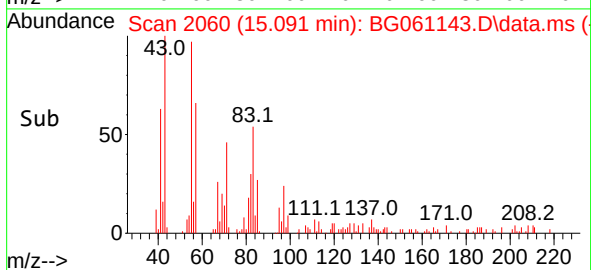
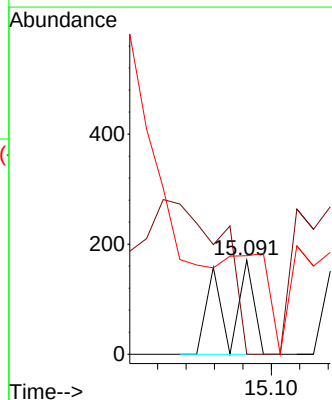
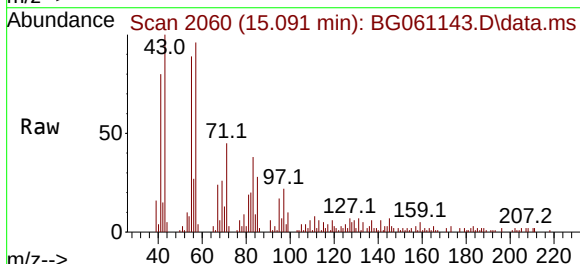
Instrument :
BNA_G
ClientSampleId :
BIN-1

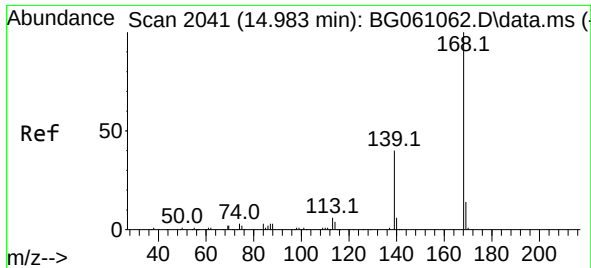
Tgt Ion:154 Resp: 22222
Ion Ratio Lower Upper
154 100
153 108.0 91.0 136.4
152 51.2 43.1 64.7



#54
2,4-Dinitrophenol
Concen: 2.332 ng
RT: 15.091 min Scan# 2060
Delta R.T. 0.397 min
Lab File: BG061143.D
Acq: 8 May 2024 15:47

Tgt Ion:184 Resp: 116
Ion Ratio Lower Upper
184 100
63 0.0 62.6 93.8#
154 104.7 61.4 92.0#

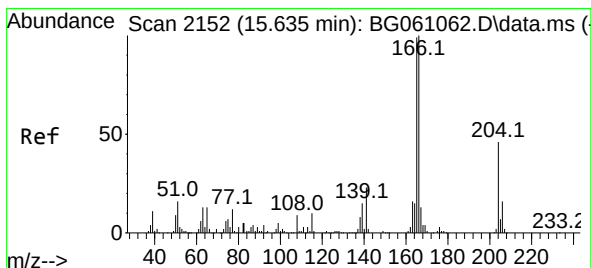
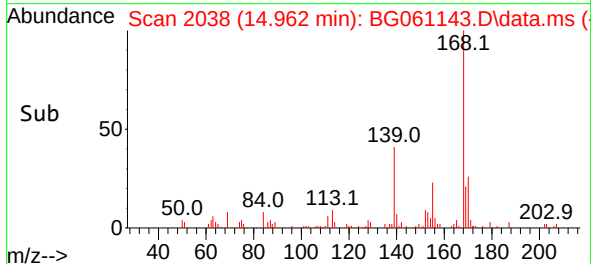
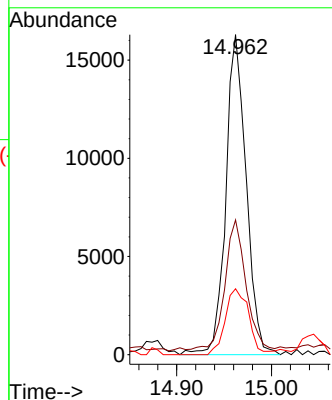
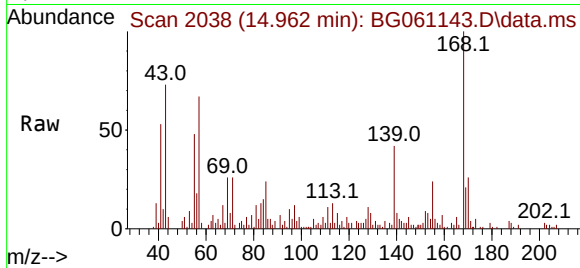




#55
Dibenzofuran
Concen: 3.802 ng
RT: 14.962 min Scan# 2041
Delta R.T. -0.020 min
Lab File: BG061143.D
Acq: 8 May 2024 15:47

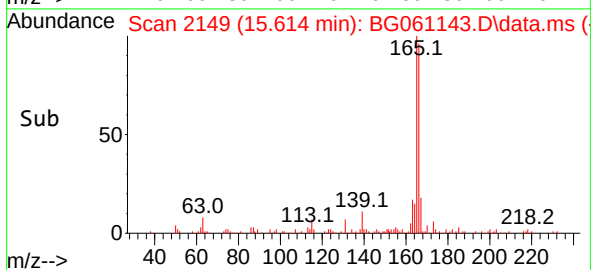
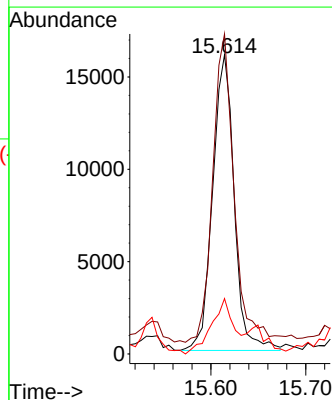
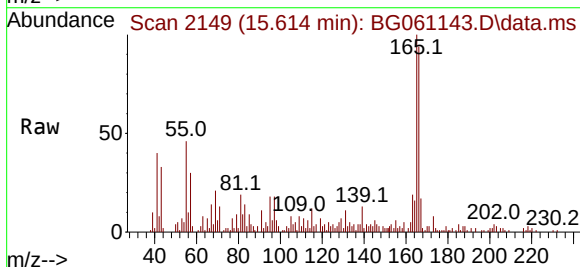
Instrument :
BNA_G
ClientSampleId :
BIN-1

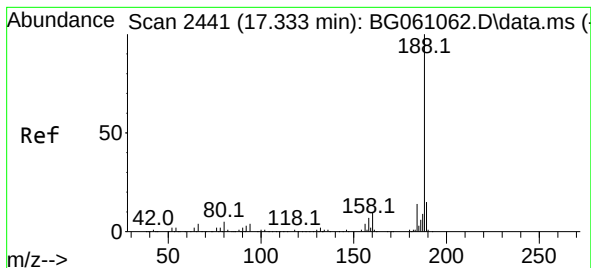
Tgt Ion	Ratio	Lower	Upper
168	100		
139	42.1	32.2	48.4
169	20.6	11.4	17.2



#58
Fluorene
Concen: 4.562 ng
RT: 15.614 min Scan# 2149
Delta R.T. -0.020 min
Lab File: BG061143.D
Acq: 8 May 2024 15:47

Tgt Ion	Ratio	Lower	Upper
166	100		
165	106.9	78.9	118.3
167	18.5	10.6	15.8





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.312 min Scan# 2441

Delta R.T. -0.020 min

Lab File: BG061143.D

Acq: 8 May 2024 15:47

Instrument :

BNA_G

ClientSampleId :

BIN-1

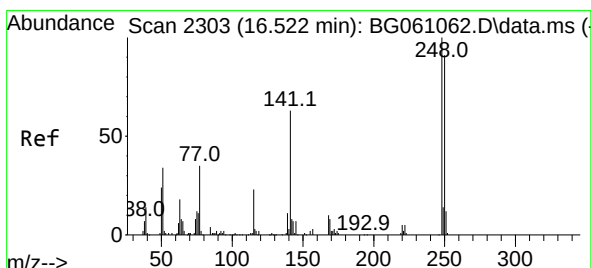
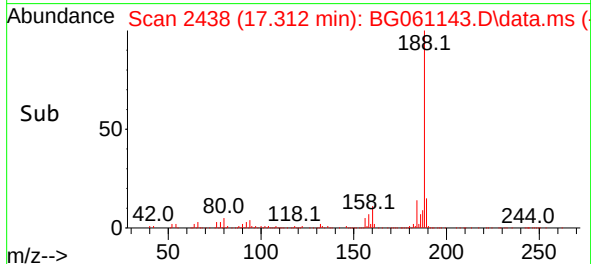
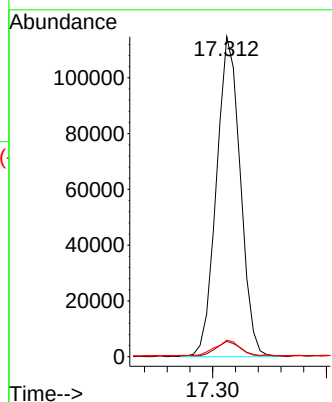
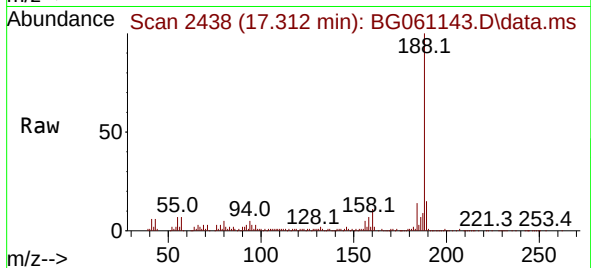
Tgt Ion:188 Resp: 167841

Ion Ratio Lower Upper

188 100

94 4.8 3.6 5.4

80 5.2 4.2 6.2



#67

4-Bromophenyl-phenylether

Concen: 4.847 ng

RT: 16.055 min Scan# 2224

Delta R.T. -0.467 min

Lab File: BG061143.D

Acq: 8 May 2024 15:47

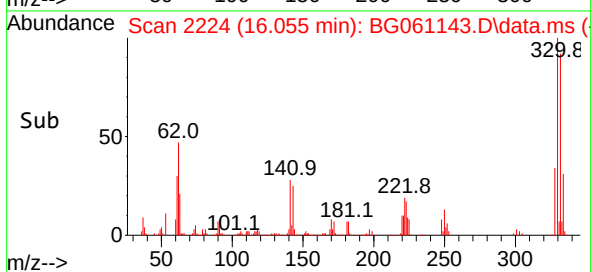
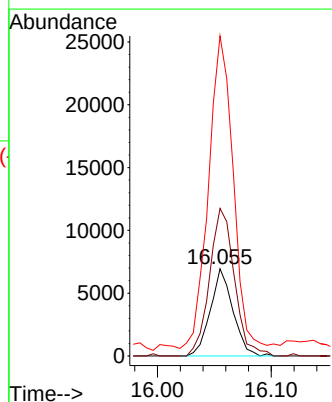
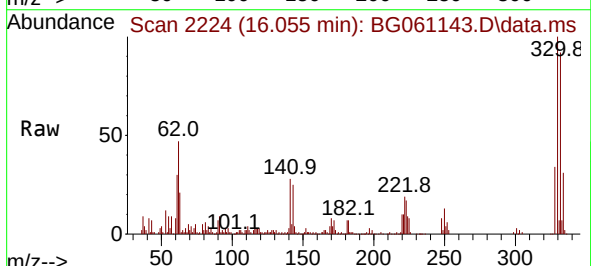
Tgt Ion:248 Resp: 9583

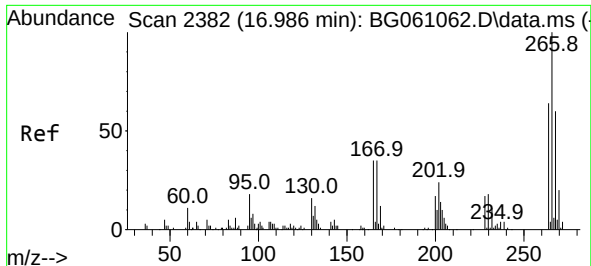
Ion Ratio Lower Upper

248 100

250 169.0 73.0 109.4#

141 366.8 50.8 76.2#

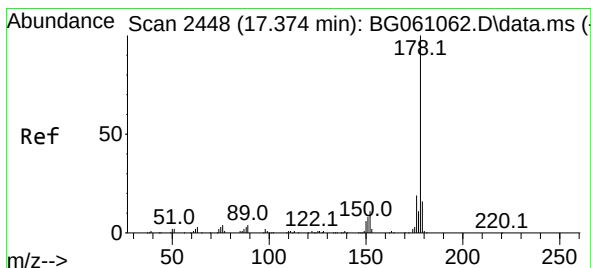
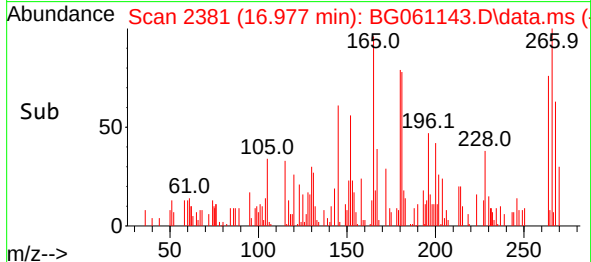
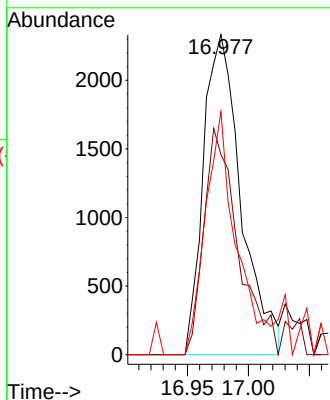
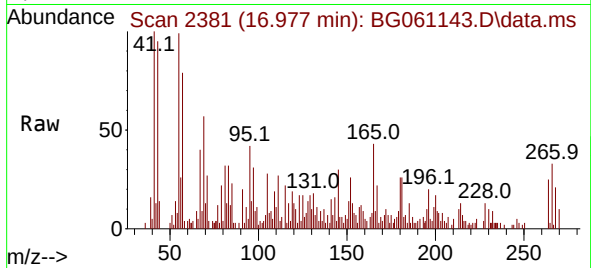




#70
Pentachlorophenol
Concen: 3.322 ng
RT: 16.977 min Scan# 21
Delta R.T. -0.009 min
Lab File: BG061143.D
Acq: 8 May 2024 15:47

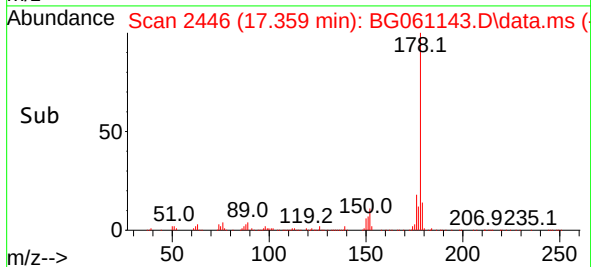
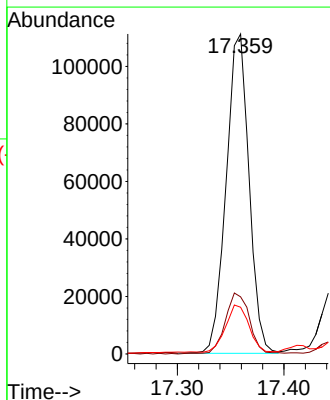
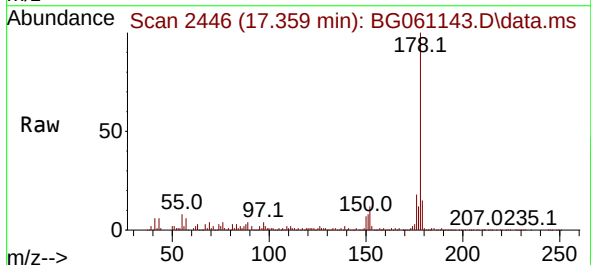
Instrument :
BNA_G
ClientSampleId :
BIN-1

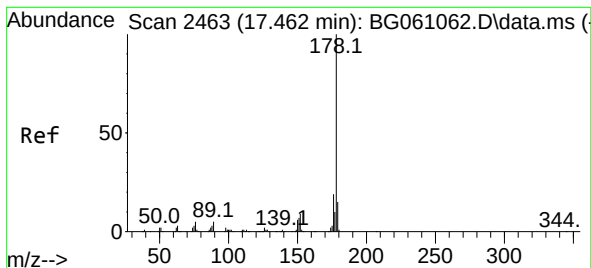
Tgt Ion:266 Resp: 5023
Ion Ratio Lower Upper
266 100
268 62.5 47.8 71.8
264 83.9 51.5 77.3#



#71
Phenanthrene
Concen: 21.579 ng
RT: 17.359 min Scan# 2446
Delta R.T. -0.015 min
Lab File: BG061143.D
Acq: 8 May 2024 15:47

Tgt Ion:178 Resp: 165608
Ion Ratio Lower Upper
178 100
176 17.9 15.5 23.3
179 14.6 12.6 19.0





#72

Anthracene

Concen: 4.614 ng

RT: 17.447 min Scan# 24

Delta R.T. -0.015 min

Lab File: BG061143.D

Acq: 8 May 2024 15:47

Instrument :

BNA_G

ClientSampleId :

BIN-1

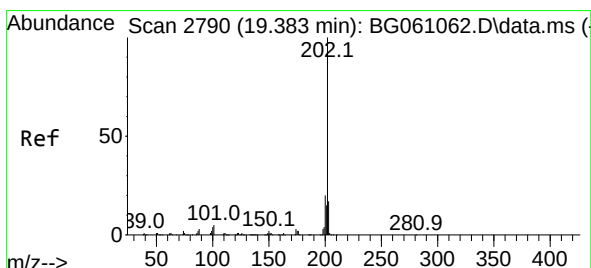
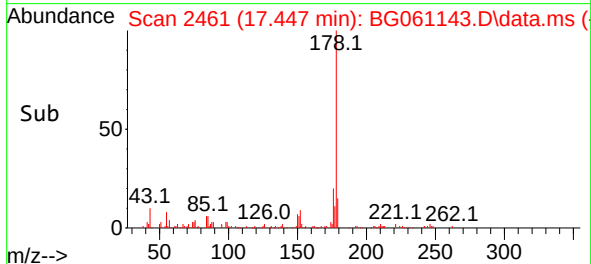
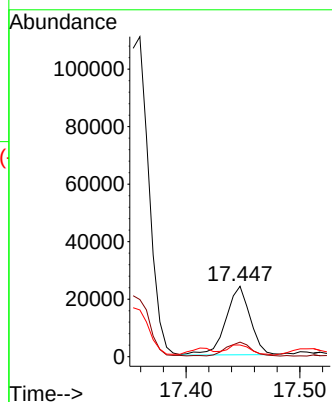
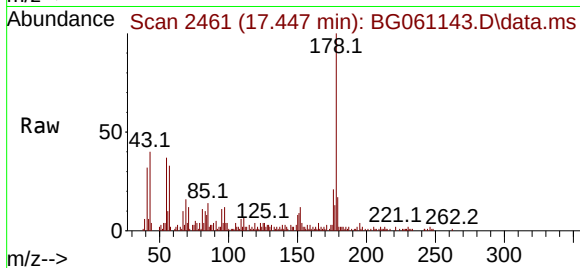
Tgt Ion:178 Resp: 35336

Ion Ratio Lower Upper

178 100

176 20.6 15.0 22.6

179 16.6 12.0 18.0



#75

Fluoranthene

Concen: 34.309 ng

RT: 19.375 min Scan# 2789

Delta R.T. -0.009 min

Lab File: BG061143.D

Acq: 8 May 2024 15:47

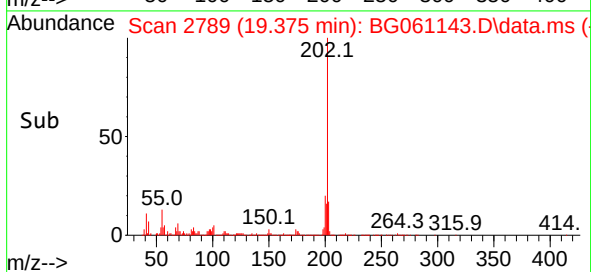
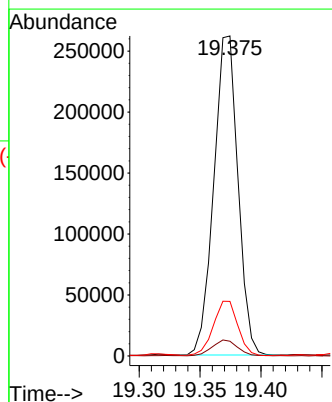
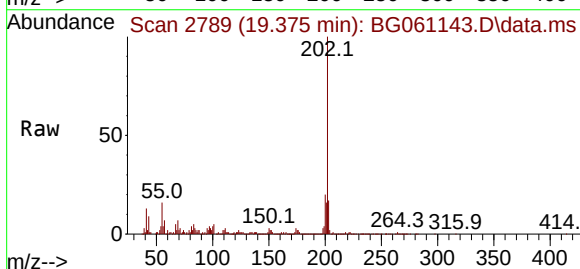
Tgt Ion:202 Resp: 360715

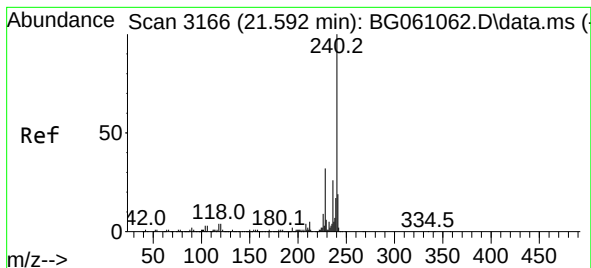
Ion Ratio Lower Upper

202 100

101 4.6 0.0 24.7

203 17.1 0.0 37.1





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.578 min Scan# 3164

Delta R.T. -0.015 min

Lab File: BG061143.D

Acq: 8 May 2024 15:47

Instrument :

BNA_G

ClientSampleId :

BIN-1

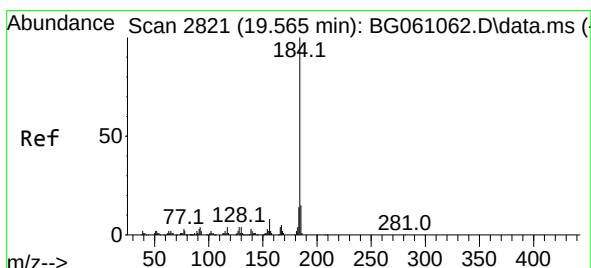
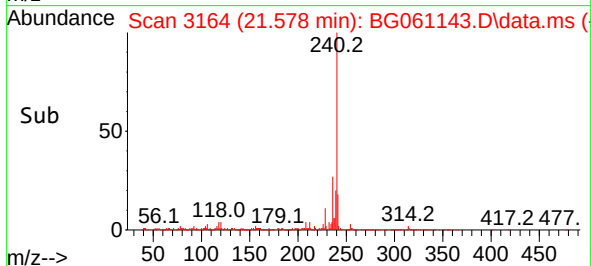
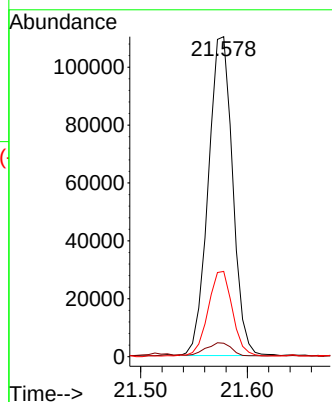
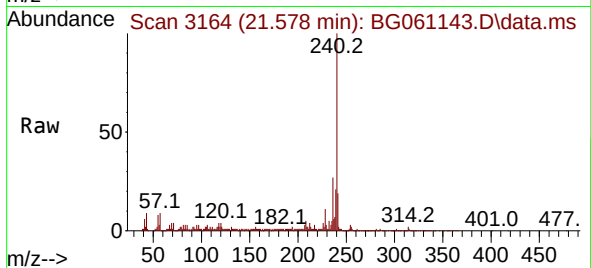
Tgt Ion:240 Resp: 174368

Ion Ratio Lower Upper

240 100

120 4.2 3.2 4.8

236 26.7 21.0 31.6



#77

Benzidine

Concen: 5.824 ng

RT: 19.933 min Scan# 2884

Delta R.T. 0.368 min

Lab File: BG061143.D

Acq: 8 May 2024 15:47

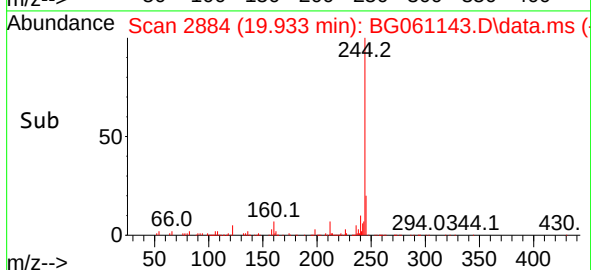
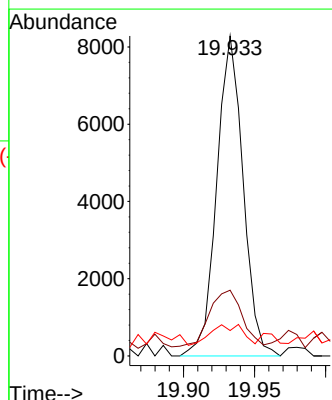
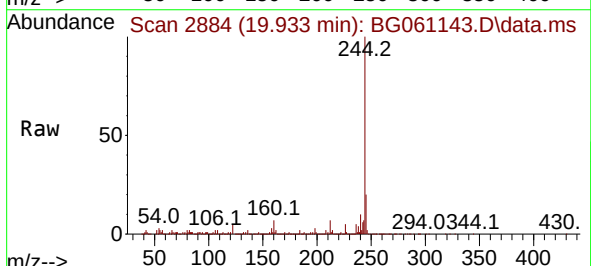
Tgt Ion:184 Resp: 10672

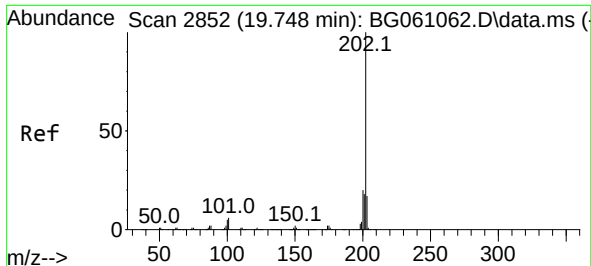
Ion Ratio Lower Upper

184 100

185 20.5 12.0 18.0#

183 8.0 10.9 16.3#

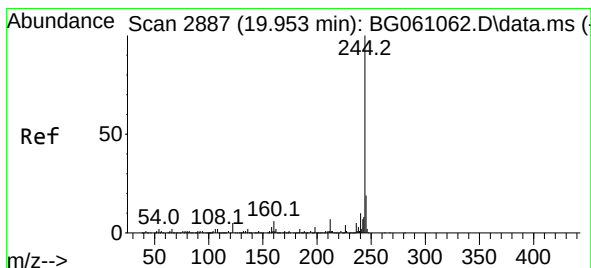
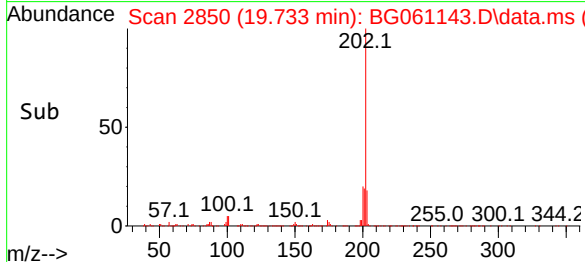
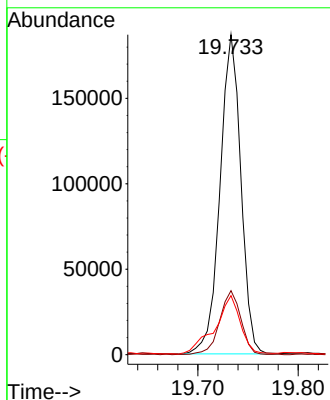
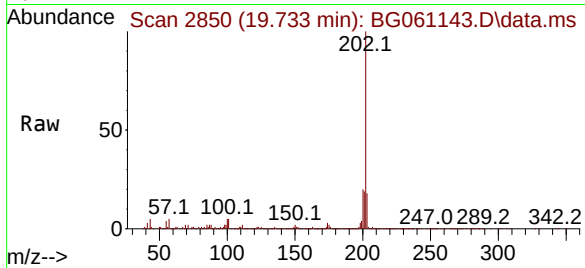




#78
 Pyrene
 Concen: 24.272 ng
 RT: 19.733 min Scan# 2850
 Delta R.T. -0.015 min
 Lab File: BG061143.D
 Acq: 8 May 2024 15:47

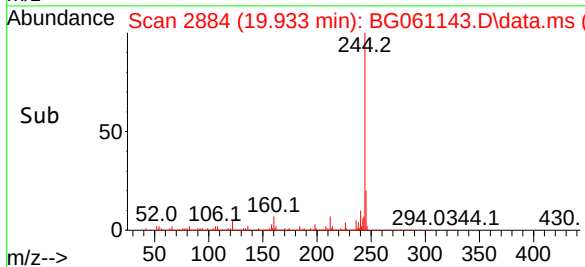
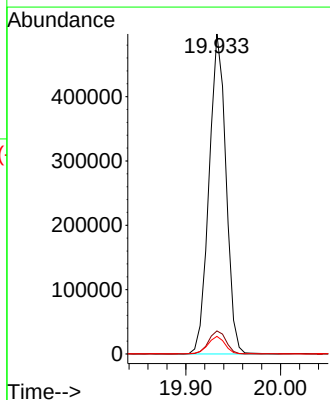
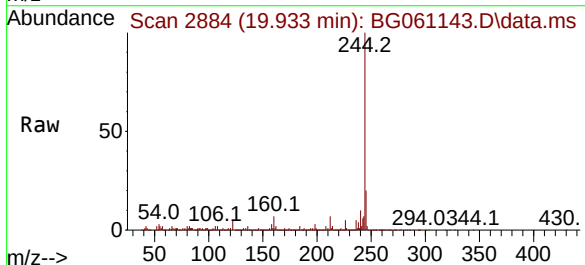
Instrument :
 BNA_G
 ClientSampleId :
 BIN-1

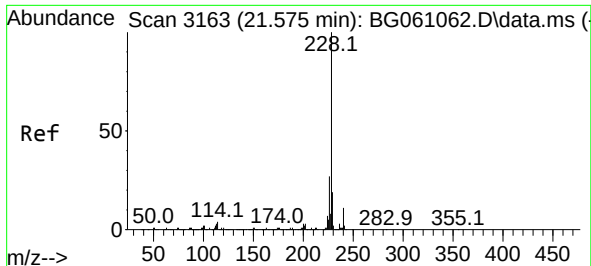
Tgt Ion:202 Resp: 269066
 Ion Ratio Lower Upper
 202 100
 200 20.0 16.2 24.4
 203 18.4 13.3 19.9



#79
 Terphenyl-d14
 Concen: 58.792 ng
 RT: 19.933 min Scan# 2884
 Delta R.T. -0.020 min
 Lab File: BG061143.D
 Acq: 8 May 2024 15:47

Tgt Ion:244 Resp: 616386
 Ion Ratio Lower Upper
 244 100
 212 7.2 5.7 8.5
 122 5.5 4.2 6.2

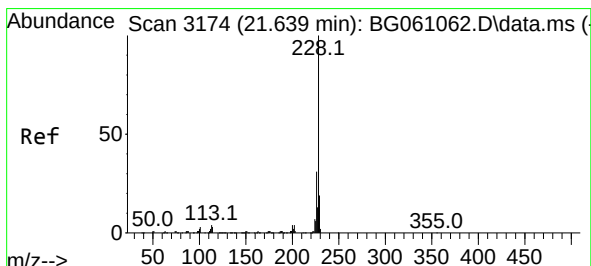
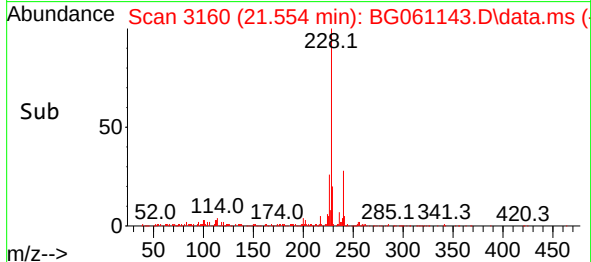
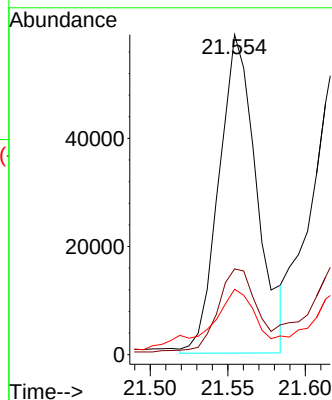
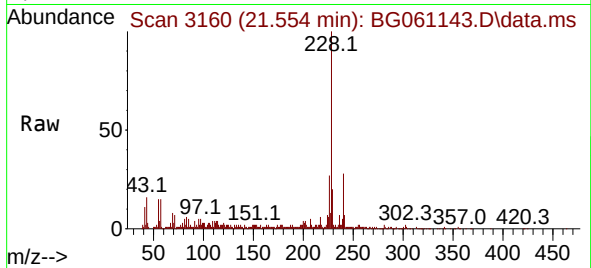




#81
Benzo(a)anthracene
Concen: 8.747 ng
RT: 21.554 min Scan# 3160
Delta R.T. -0.020 min
Lab File: BG061143.D
Acq: 8 May 2024 15:47

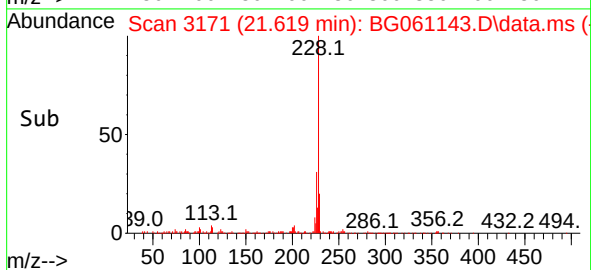
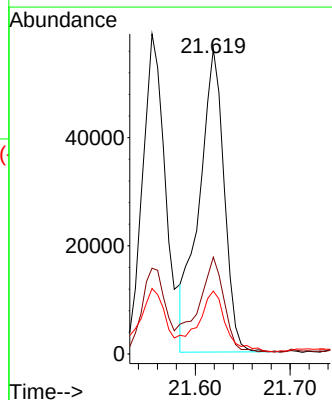
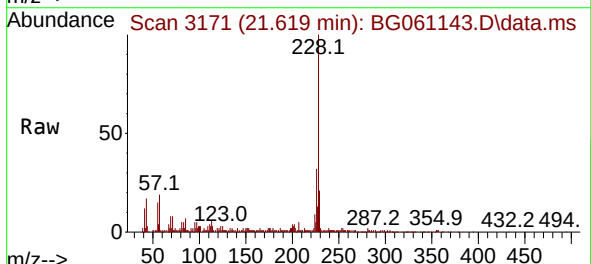
Instrument :
BNA_G
ClientSampleId :
BIN-1

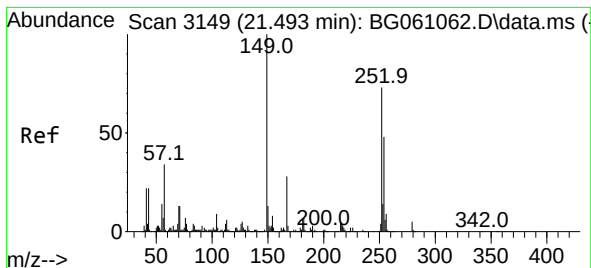
Tgt Ion:228 Resp: 99810
Ion Ratio Lower Upper
228 100
226 26.8 21.6 32.4
229 20.4 15.0 22.4



#83
Chrysene
Concen: 9.603 ng
RT: 21.619 min Scan# 3171
Delta R.T. -0.020 min
Lab File: BG061143.D
Acq: 8 May 2024 15:47

Tgt Ion:228 Resp: 102659
Ion Ratio Lower Upper
228 100
226 31.7 24.4 36.6
229 20.6 14.8 22.2





#84

Bis(2-ethylhexyl)phthalate

Concen: 3.302 ng

RT: 21.472 min Scan# 3149

Delta R.T. -0.020 min

Lab File: BG061143.D

Acq: 8 May 2024 15:47

Instrument :

BNA_G

ClientSampleId :

BIN-1

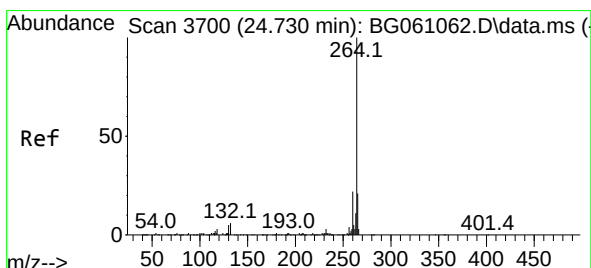
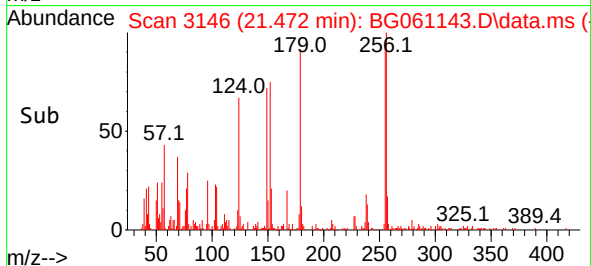
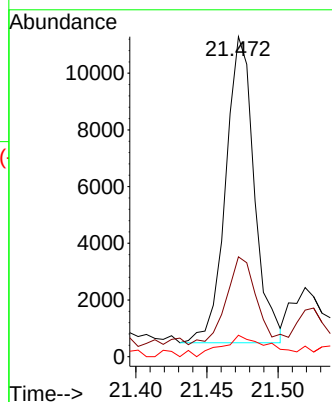
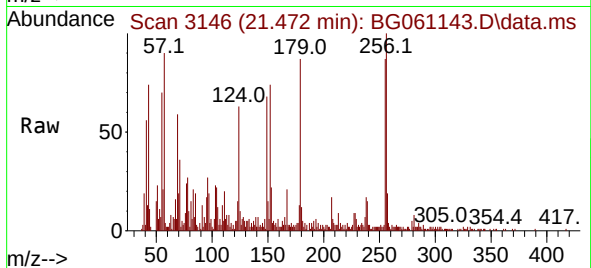
Tgt Ion:149 Resp: 15132

Ion Ratio Lower Upper

149 100

167 31.2 22.1 33.1

279 6.7 4.1 6.1#



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.704 min Scan# 3696

Delta R.T. -0.026 min

Lab File: BG061143.D

Acq: 8 May 2024 15:47

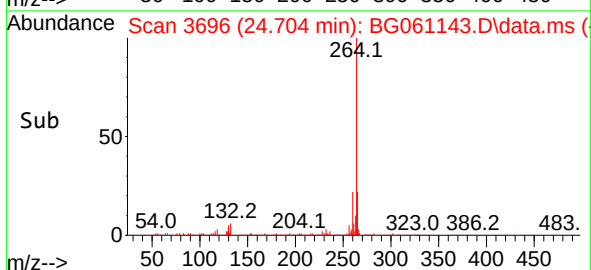
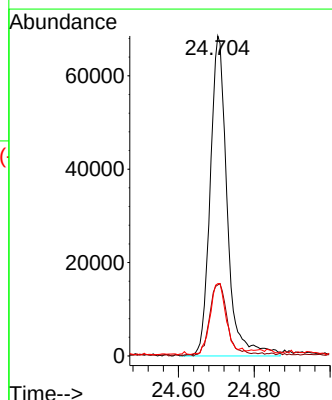
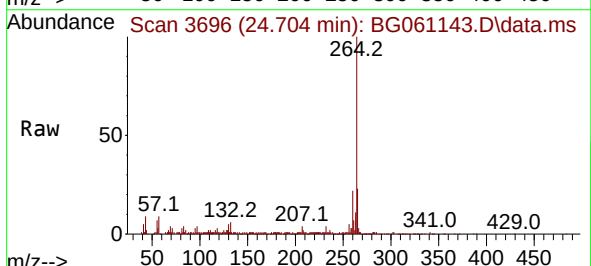
Tgt Ion:264 Resp: 212230

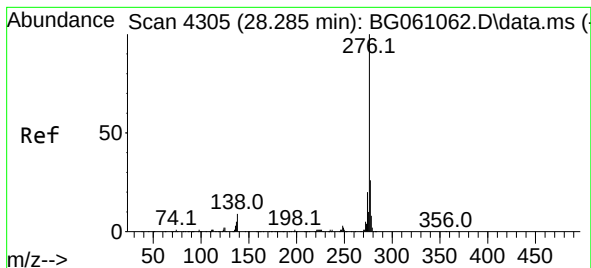
Ion Ratio Lower Upper

264 100

260 22.2 17.7 26.5

265 22.6 16.4 24.6





#87

Indeno(1,2,3-cd)pyrene

Concen: 2.070 ng

RT: 28.264 min Scan# 41

Delta R.T. -0.020 min

Lab File: BG061143.D

Acq: 8 May 2024 15:47

Instrument :

BNA_G

ClientSampleId :

BIN-1

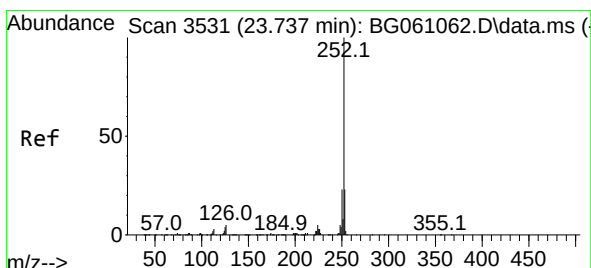
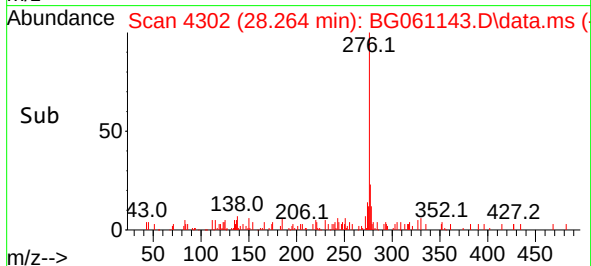
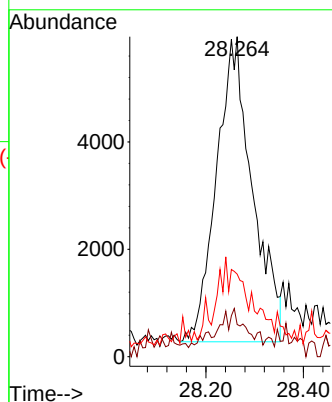
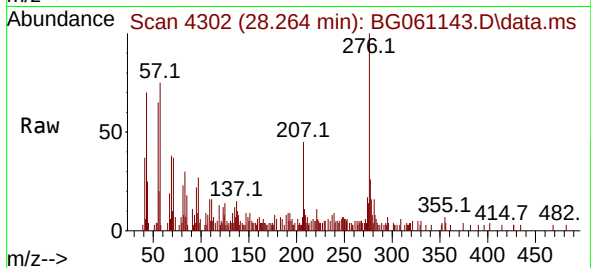
Tgt Ion:276 Resp: 29108

Ion Ratio Lower Upper

276 100

138 0.0 5.1 7.7#

277 0.0 20.6 30.8#



#88

Benzo(b)fluoranthene

Concen: 8.969 ng

RT: 23.711 min Scan# 3527

Delta R.T. -0.026 min

Lab File: BG061143.D

Acq: 8 May 2024 15:47

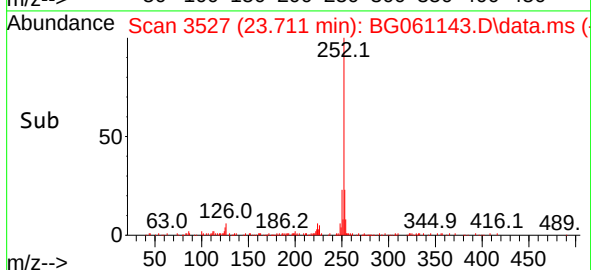
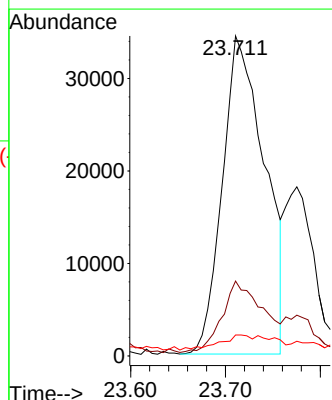
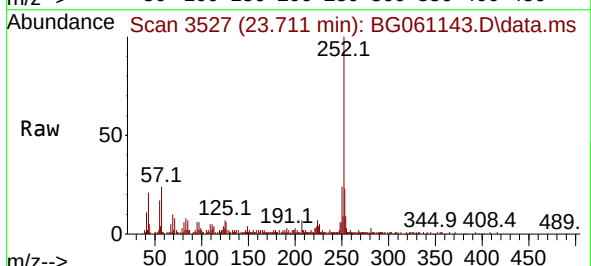
Tgt Ion:252 Resp: 106363

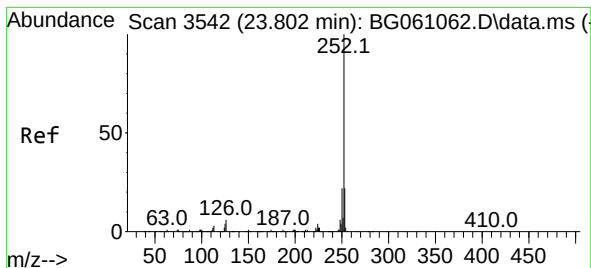
Ion Ratio Lower Upper

252 100

253 23.4 18.2 27.2

125 6.6 3.4 5.0#





#89

Benzo(k)fluoranthene

Concen: 9.323 ng

RT: 23.711 min Scan# 3

Delta R.T. -0.091 min

Lab File: BG061143.D

Acq: 8 May 2024 15:47

Instrument :

BNA_G

ClientSampleId :

BIN-1

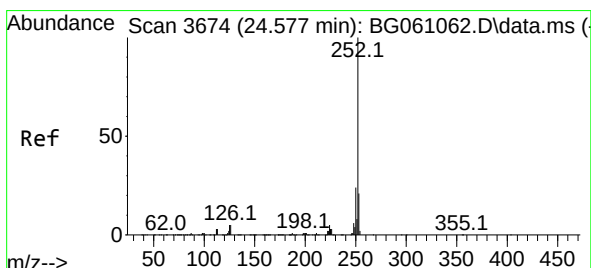
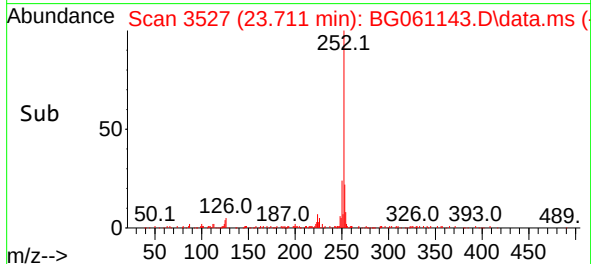
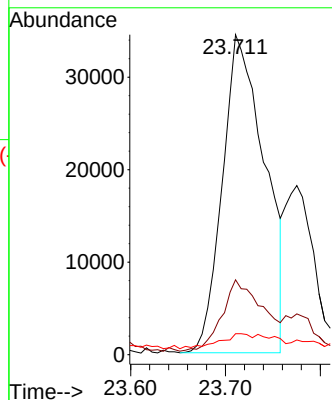
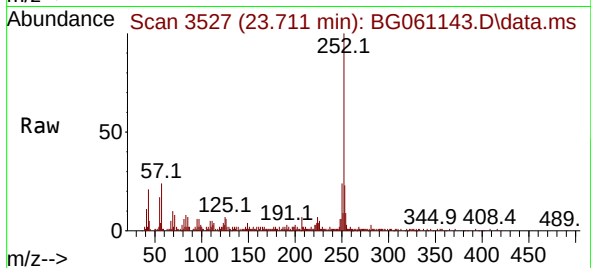
Tgt Ion:252 Resp: 106363

Ion Ratio Lower Upper

252 100

253 23.4 17.3 25.9

125 6.6 3.2 4.8#



#90

Benzo(a)pyrene

Concen: 5.590 ng

RT: 24.557 min Scan# 3671

Delta R.T. -0.020 min

Lab File: BG061143.D

Acq: 8 May 2024 15:47

Tgt Ion:252 Resp: 57759

Ion Ratio Lower Upper

252 100

253 23.8 16.9 25.3

125 8.5 3.8 5.8#

