

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG090225\
 Data File : BG064247.D
 Acq On : 2 Sep 2025 16:06
 Operator : RC/JU
 Sample : Q2997-01 5X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Sep 02 16:51:05 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG082825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 28 17:41:58 2025
 Response via : Initial Calibration

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

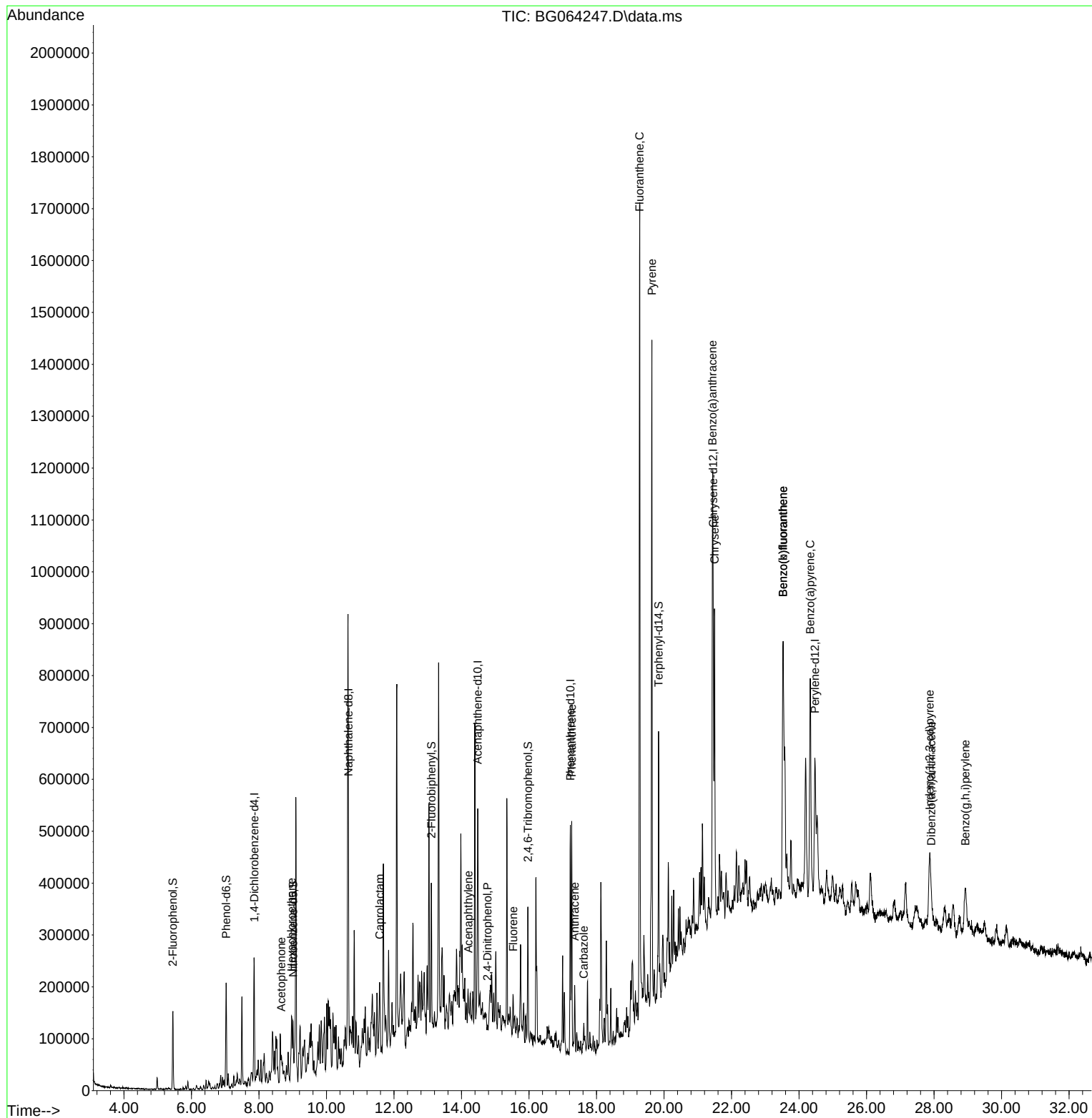
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.858	152	45874	20.000	ng	0.00
21) Naphthalene-d8	10.649	136	193218	20.000	ng	# 0.00
39) Acenaphthene-d10	14.480	164	128987	20.000	ng	0.00
64) Phenanthrene-d10	17.224	188	261211	20.000	ng	0.00
76) Chrysene-d12	21.454	240	257026	20.000	ng	0.00
86) Perylene-d12	24.468	264	291814	20.000	ng	# 0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.449	112	61421	24.021	ng	0.00
7) Phenol-d6	7.024	99	82245	23.413	ng	0.00
23) Nitrobenzene-d5	9.010	82	54548	15.745	ng	0.00
42) 2,4,6-Tribromophenol	15.966	330	35853	20.985	ng	0.00
45) 2-Fluorobiphenyl	13.105	172	137364	16.255	ng	0.00
79) Terphenyl-d14	19.838	244	222074	18.026	ng	0.00
Target Compounds						
						Qvalue
18) Hexachloroethane	8.963	117	6928	5.290	ng	# 1
22) Acetophenone	8.663	105	27400	5.605	ng	# 53
35) Caprolactam	11.577	113	2311	2.060	ng	# 1
49) Acenaphthylene	14.204	152	25899	2.481	ng	# 88
54) 2,4-Dinitrophenol	14.768	184	63	5.699	ng	# 1
58) Fluorene	15.531	166	24142	2.542	ng	93
71) Phenanthrene	17.265	178	260196	18.886	ng	97
72) Anthracene	17.353	178	79407	5.666	ng	98
73) Carbazole	17.623	167	31443	2.547	ng	# 88
75) Fluoranthene	19.274	202	804968	49.691	ng	97
78) Pyrene	19.638	202	772485	47.705	ng	100
81) Benzo(a)anthracene	21.436	228	456321	27.751	ng	99
83) Chrysene	21.495	228	414294	26.244	ng	96
87) Indeno(1,2,3-cd)pyrene	27.870	276	260340	13.064	ng	# 92
88) Benzo(b)fluoranthene	23.528	252	602134	36.560	ng	# 97
89) Benzo(k)fluoranthene	23.528	252	602134	35.887	ng	99
90) Benzo(a)pyrene	24.333	252	447823	29.230	ng	98
91) Dibenzo(a,h)anthracene	27.917	278	63214	3.951	ng	# 92
92) Benzo(g,h,i)perylene	28.927	276	231247	14.852	ng	95

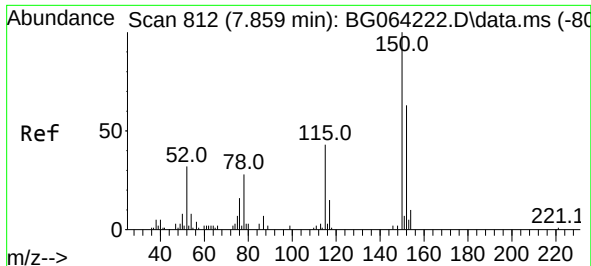
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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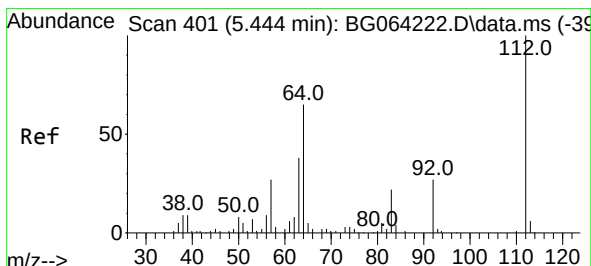
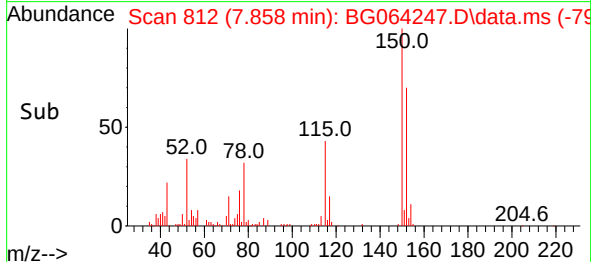
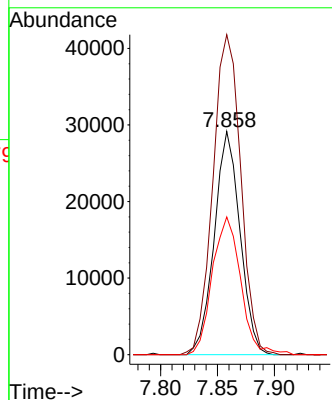
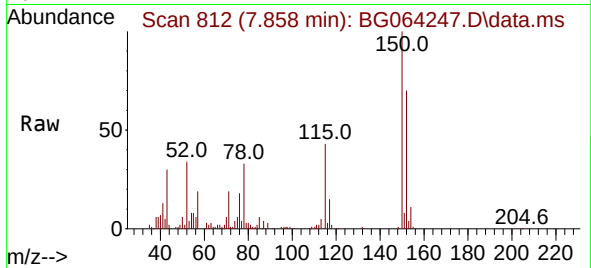




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.858 min Scan# 812
Delta R.T. -0.001 min
Lab File: BG064247.D
Acq: 2 Sep 2025 16:06

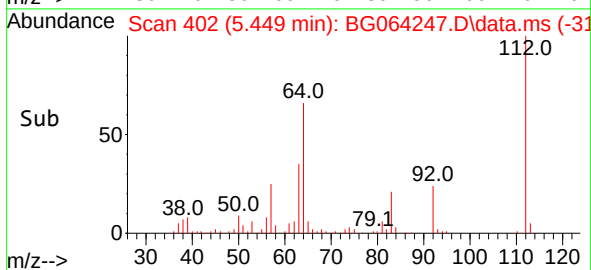
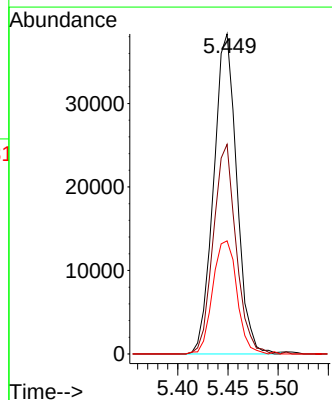
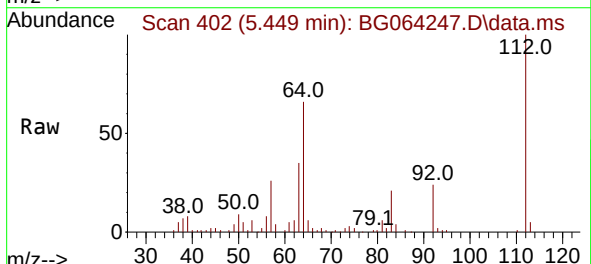
Instrument :
BNA_G
ClientSampleId :

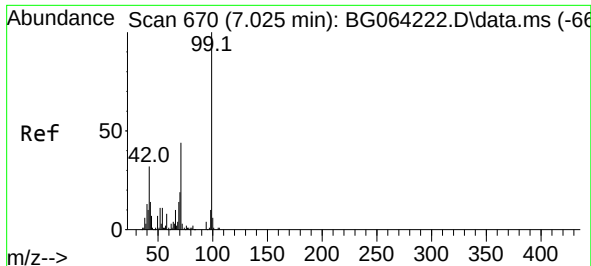
Tgt Ion:152 Resp: 45874
Ion Ratio Lower Upper
152 100
150 143.4 128.0 192.0
115 61.7 55.7 83.5



#5
2-Fluorophenol
Concen: 24.021 ng
RT: 5.449 min Scan# 402
Delta R.T. 0.005 min
Lab File: BG064247.D
Acq: 2 Sep 2025 16:06

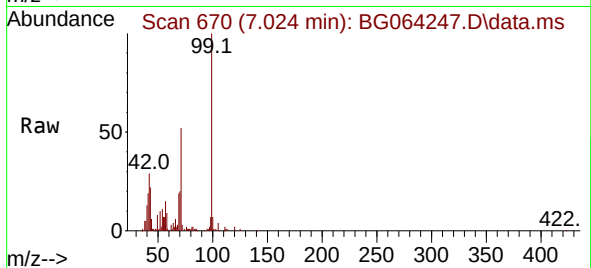
Tgt Ion:112 Resp: 61421
Ion Ratio Lower Upper
112 100
64 65.5 51.8 77.6
63 35.4 30.6 45.8



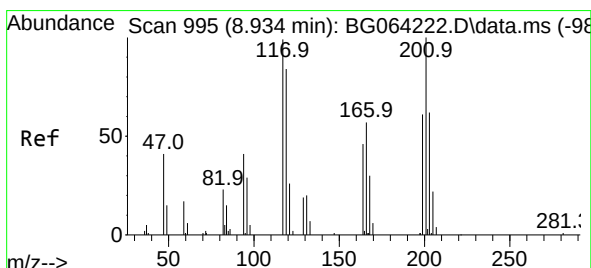
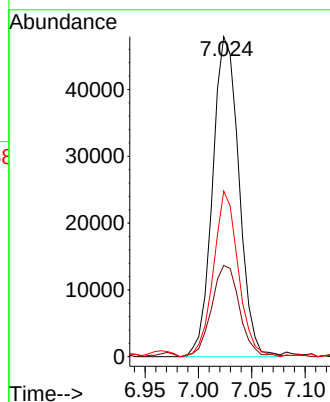
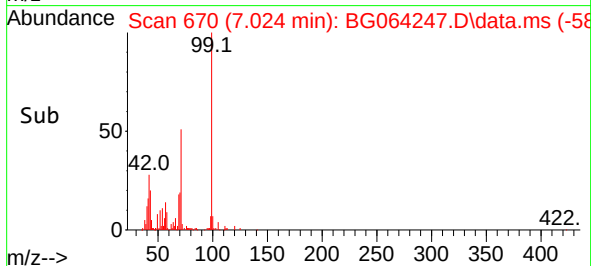


#7
Phenol-d6
Concen: 23.413 ng
RT: 7.024 min Scan# 61
Delta R.T. -0.007 min
Lab File: BG064247.D
Acq: 2 Sep 2025 16:06

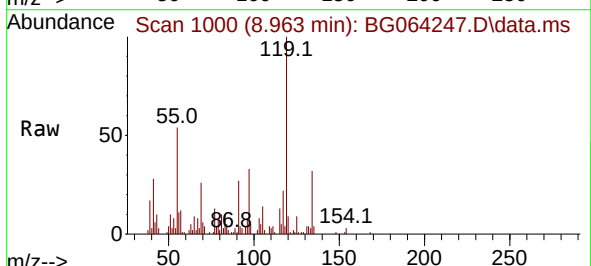
Instrument :
BNA_G
ClientSampleId :



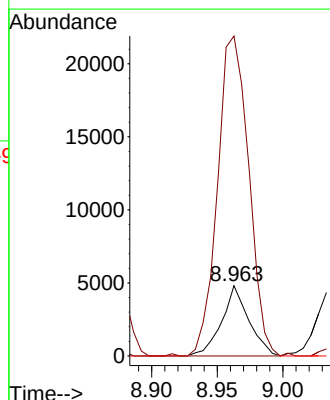
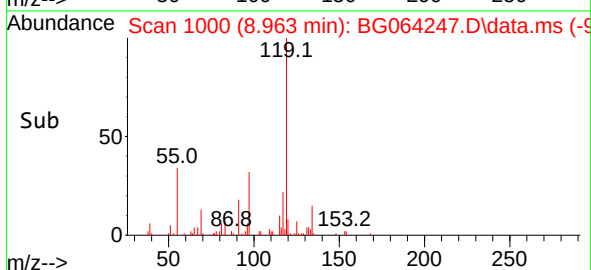
Tgt Ion: 99 Resp: 82245
Ion Ratio Lower Upper
99 100
42 28.5 25.8 38.8
71 51.7 35.2 52.8

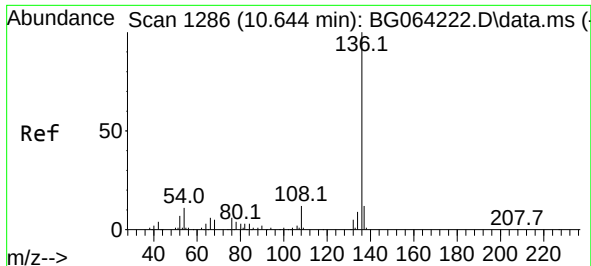


#18
Hexachloroethane
Concen: 5.290 ng
RT: 8.963 min Scan# 1000
Delta R.T. 0.028 min
Lab File: BG064247.D
Acq: 2 Sep 2025 16:06



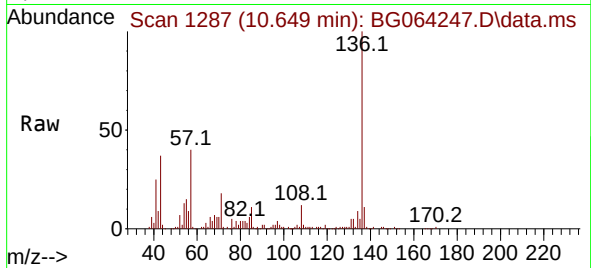
Tgt Ion: 117 Resp: 6928
Ion Ratio Lower Upper
117 100
119 455.3 67.9 101.9#
201 0.0 80.5 120.7#



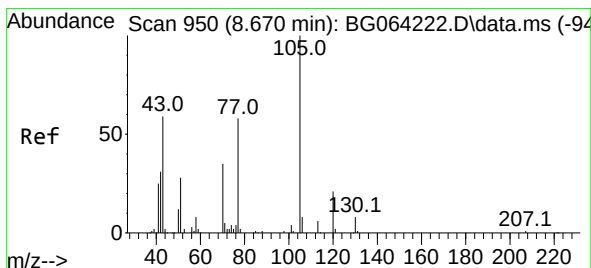
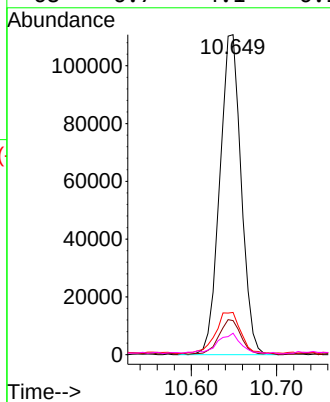
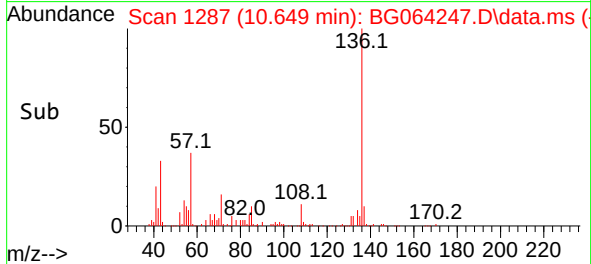


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.649 min Scan# 11
Delta R.T. -0.001 min
Lab File: BG064247.D
Acq: 2 Sep 2025 16:06

Instrument :
BNA_G
ClientSampleId :

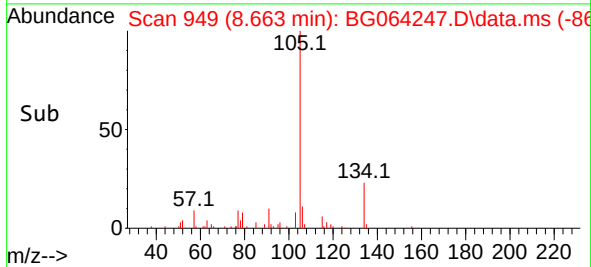
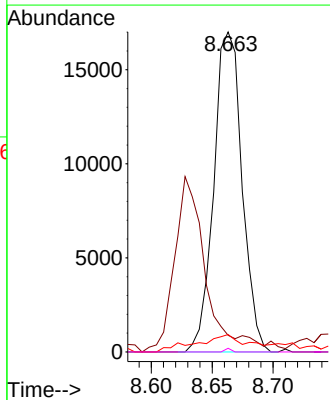
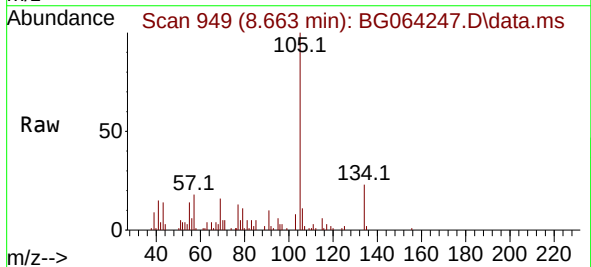


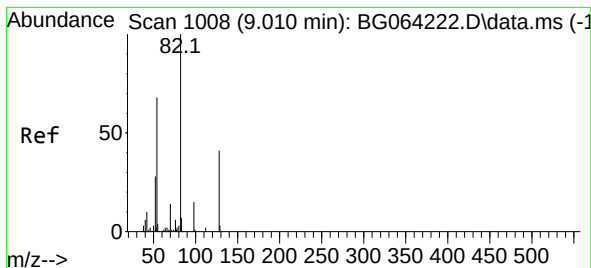
Tgt Ion:136 Resp: 193218
Ion Ratio Lower Upper
136 100
137 10.6 9.6 14.4
54 13.2 8.8 13.2#
68 6.7 4.1 6.1#



#22
Acetophenone
Concen: 5.605 ng
RT: 8.663 min Scan# 949
Delta R.T. -0.013 min
Lab File: BG064247.D
Acq: 2 Sep 2025 16:06

Tgt Ion:105 Resp: 27400
Ion Ratio Lower Upper
105 100
71 5.2 4.3 6.5
51 5.5 32.4 48.6#
120 1.1 16.8 25.2#





#23

Nitrobenzene-d5

Concen: 15.745 ng

RT: 9.010 min Scan# 1008

Delta R.T. -0.007 min

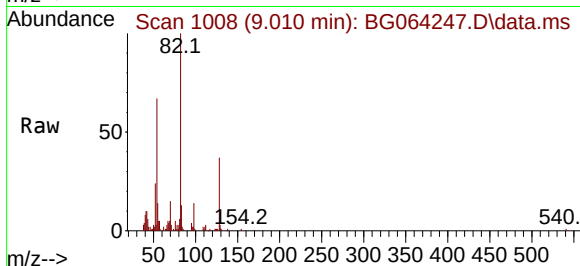
Lab File: BG064247.D

Acq: 2 Sep 2025 16:06

Instrument :

BNA_G

ClientSampleId :



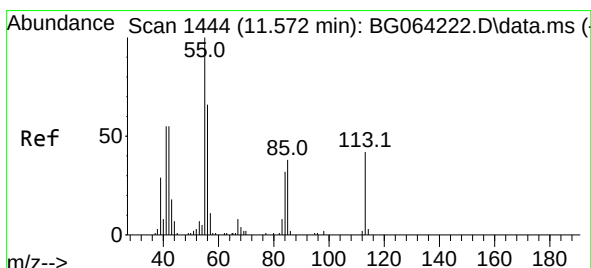
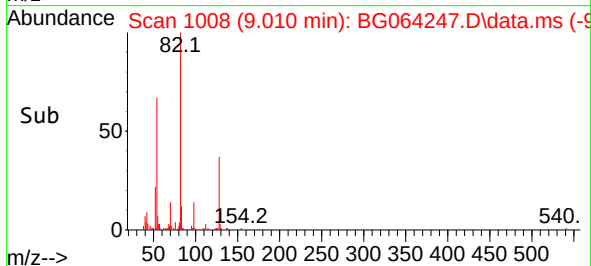
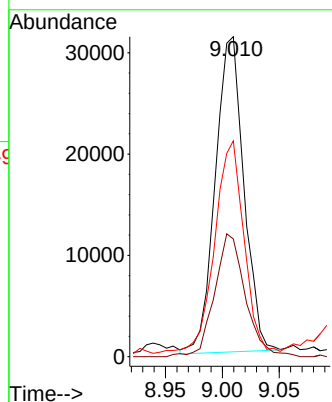
Tgt Ion: 82 Resp: 54548

Ion Ratio Lower Upper

82 100

128 36.8 32.6 48.8

54 67.4 54.7 82.1



#35

Caprolactam

Concen: 2.060 ng

RT: 11.577 min Scan# 1445

Delta R.T. -0.025 min

Lab File: BG064247.D

Acq: 2 Sep 2025 16:06

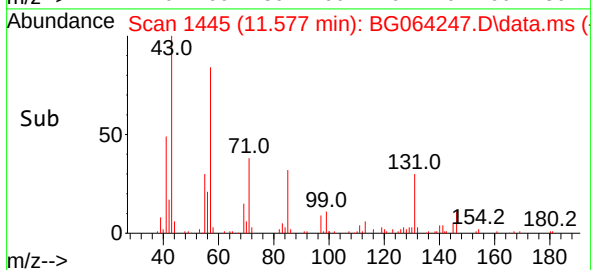
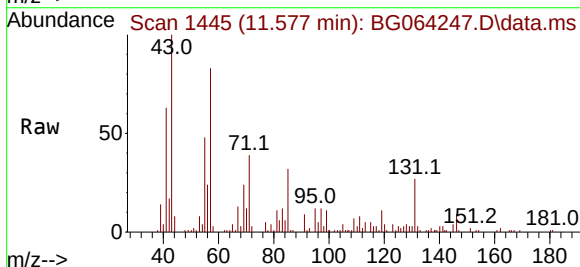
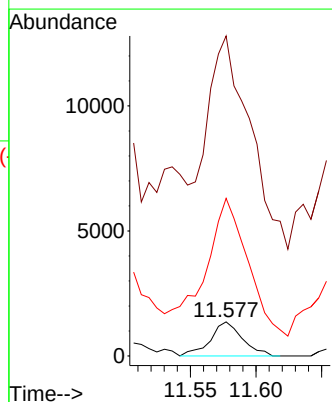
Tgt Ion: 113 Resp: 2311

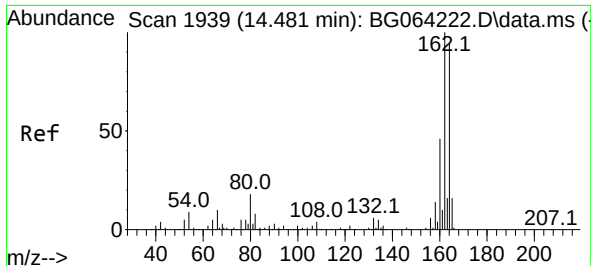
Ion Ratio Lower Upper

113 100

55 937.0 218.5 258.5#

56 461.5 138.5 178.5#

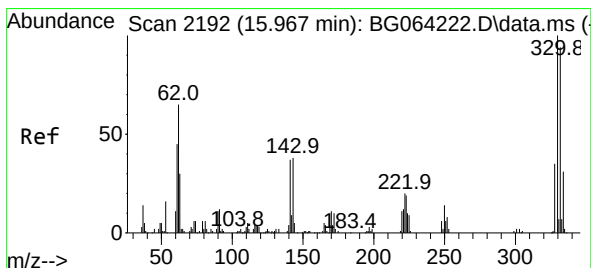
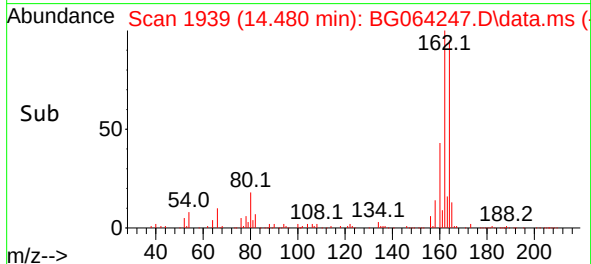
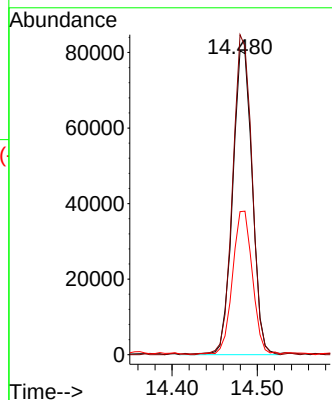
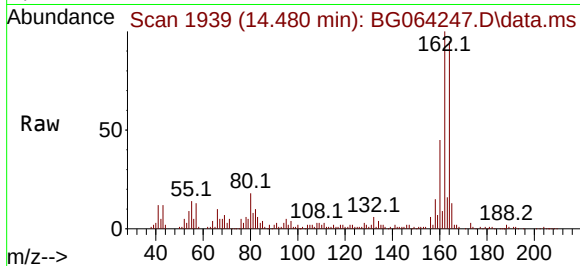




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.480 min Scan# 1939
Delta R.T. -0.001 min
Lab File: BG064247.D
Acq: 2 Sep 2025 16:06

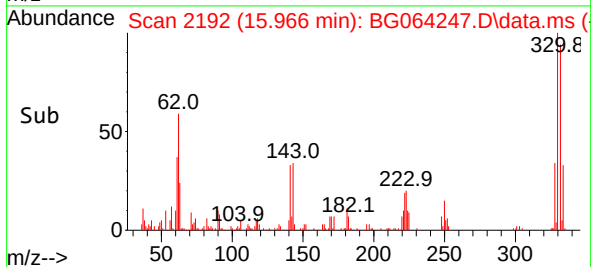
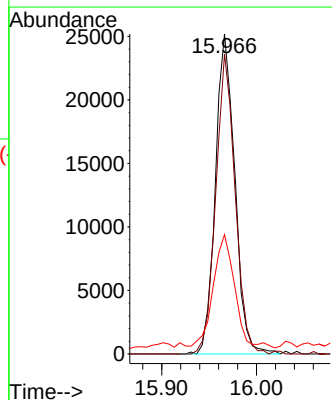
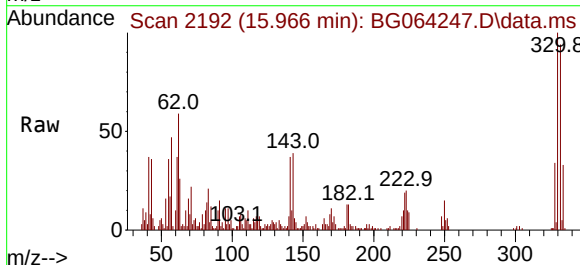
Instrument :
BNA_G
ClientSampleId :

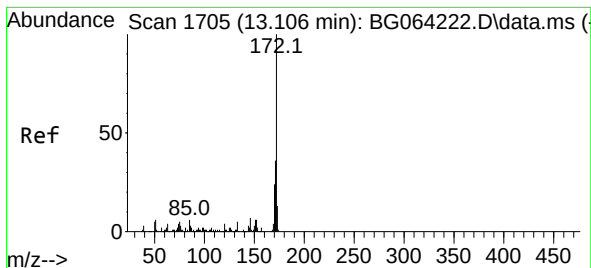
Tgt Ion:164 Resp: 128987
Ion Ratio Lower Upper
164 100
162 105.2 85.4 128.0
160 47.1 39.2 58.8



#42
2,4,6-Tribromophenol
Concen: 20.985 ng
RT: 15.966 min Scan# 2192
Delta R.T. -0.007 min
Lab File: BG064247.D
Acq: 2 Sep 2025 16:06

Tgt Ion:330 Resp: 35853
Ion Ratio Lower Upper
330 100
332 93.5 77.6 116.4
141 39.3 29.8 44.6





#45

2-Fluorobiphenyl

Concen: 16.255 ng

RT: 13.105 min Scan# 1

Delta R.T. -0.007 min

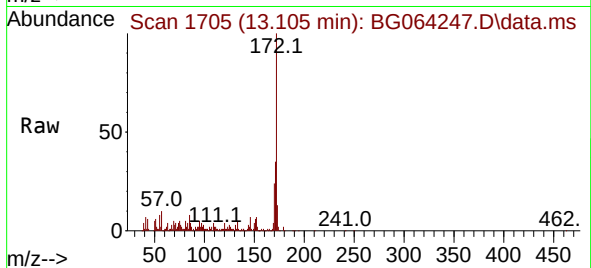
Lab File: BG064247.D

Acq: 2 Sep 2025 16:06

Instrument :

BNA_G

ClientSampleId :



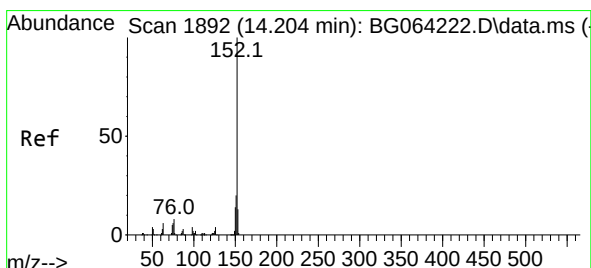
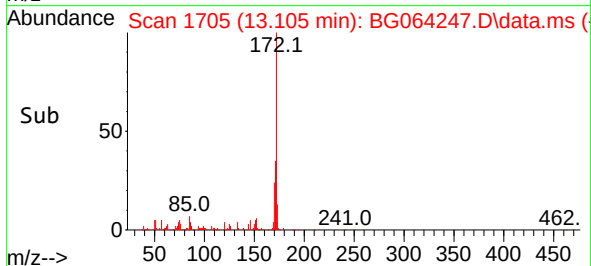
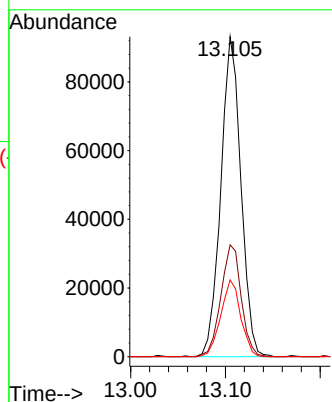
Tgt Ion:172 Resp: 137364

Ion Ratio Lower Upper

172 100

171 35.0 28.7 43.1

170 24.0 19.0 28.6



#49

Acenaphthylene

Concen: 2.481 ng

RT: 14.204 min Scan# 1892

Delta R.T. -0.001 min

Lab File: BG064247.D

Acq: 2 Sep 2025 16:06

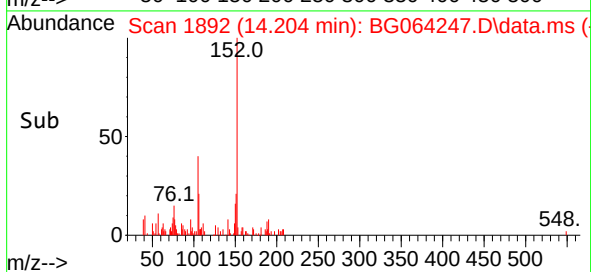
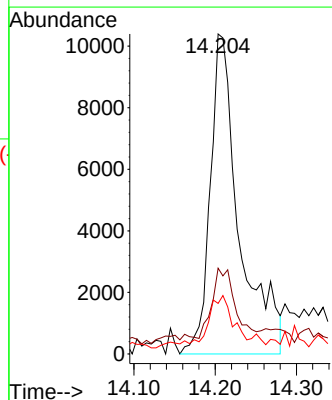
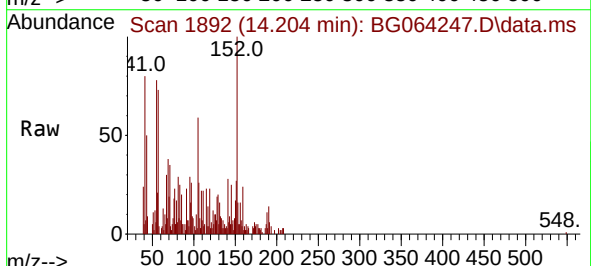
Tgt Ion:152 Resp: 25899

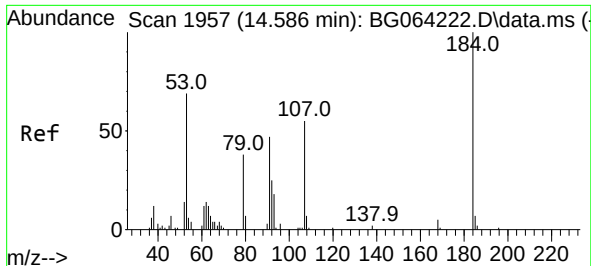
Ion Ratio Lower Upper

152 100

151 26.8 16.2 24.2#

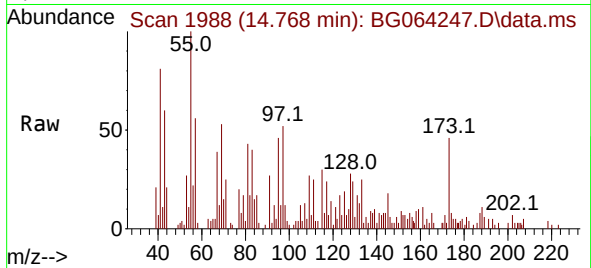
153 15.8 10.1 15.1#



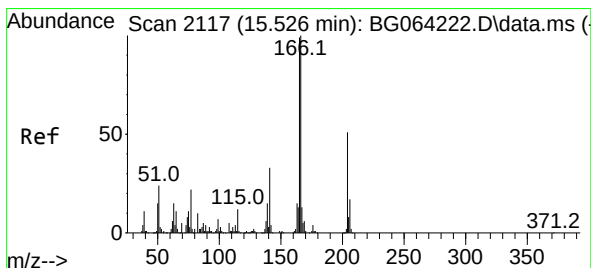
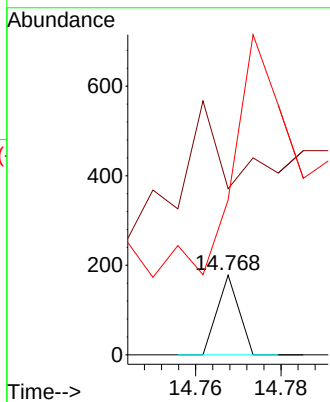
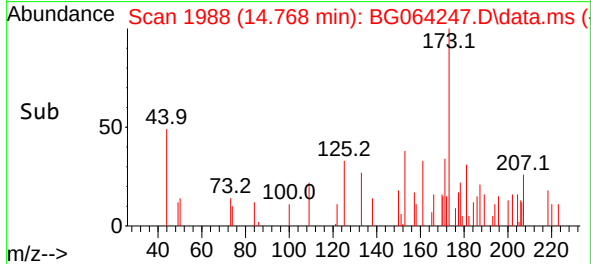


#54
2,4-Dinitrophenol
Concen: 5.699 ng
RT: 14.768 min Scan# 1957
Delta R.T. 0.176 min
Lab File: BG064247.D
Acq: 2 Sep 2025 16:06

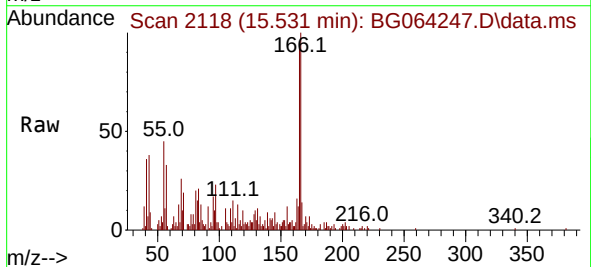
Instrument :
BNA_G
ClientSampleId :



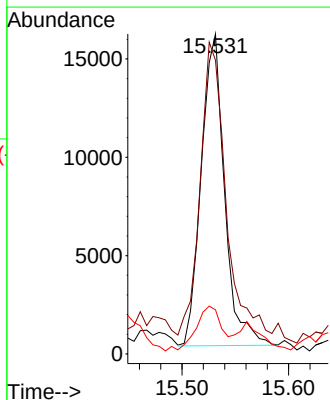
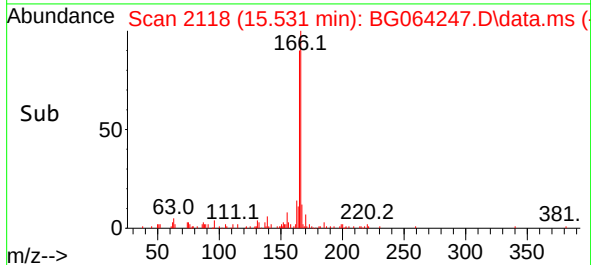
Tgt Ion:184 Resp: 63
Ion Ratio Lower Upper
184 100
63 208.4 60.1 90.1#
154 194.4 59.8 89.8#

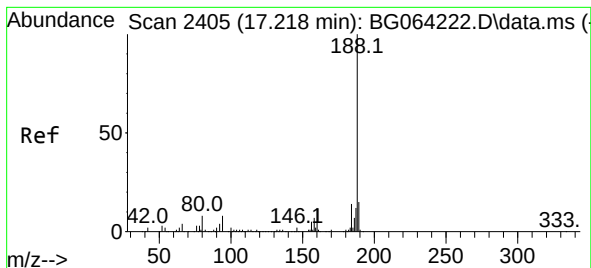


#58
Fluorene
Concen: 2.542 ng
RT: 15.531 min Scan# 2118
Delta R.T. -0.001 min
Lab File: BG064247.D
Acq: 2 Sep 2025 16:06



Tgt Ion:166 Resp: 24142
Ion Ratio Lower Upper
166 100
165 91.8 79.1 118.7
167 13.8 10.2 15.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.224 min Scan# 2406

Delta R.T. -0.001 min

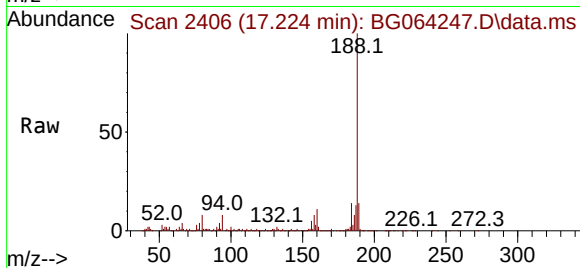
Lab File: BG064247.D

Acq: 2 Sep 2025 16:06

Instrument :

BNA_G

ClientSampleId :



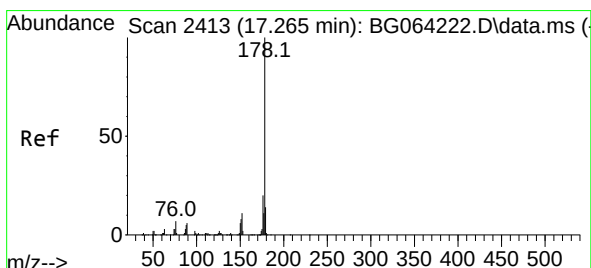
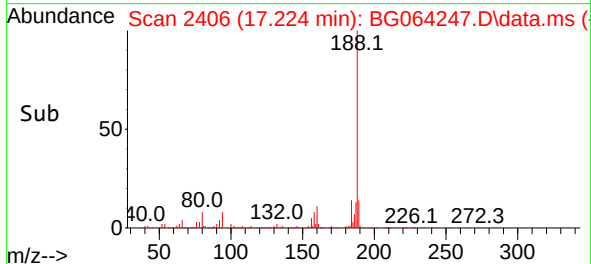
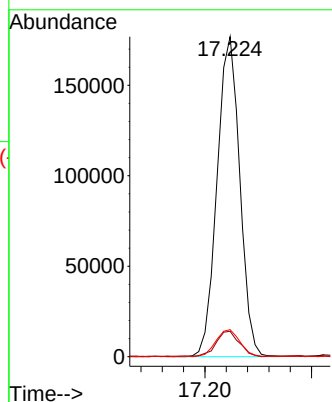
Tgt Ion:188 Resp: 261211

Ion Ratio Lower Upper

188 100

94 8.0 6.2 9.4

80 8.4 6.8 10.2



#71

Phenanthrene

Concen: 18.886 ng

RT: 17.265 min Scan# 2413

Delta R.T. -0.001 min

Lab File: BG064247.D

Acq: 2 Sep 2025 16:06

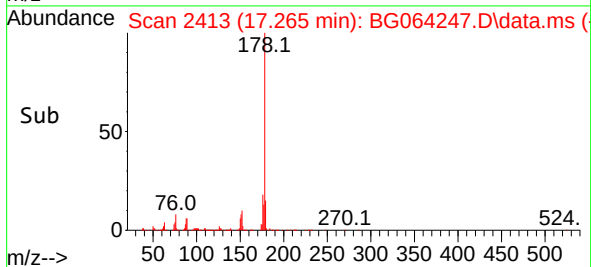
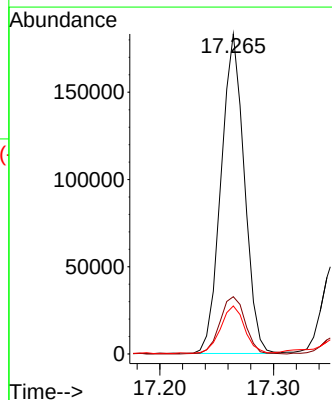
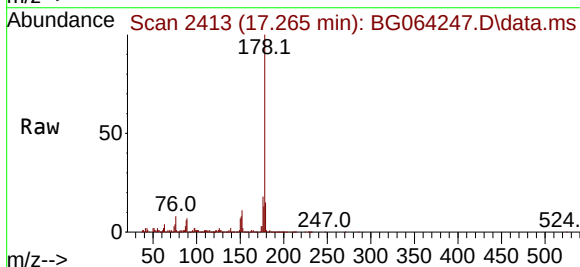
Tgt Ion:178 Resp: 260196

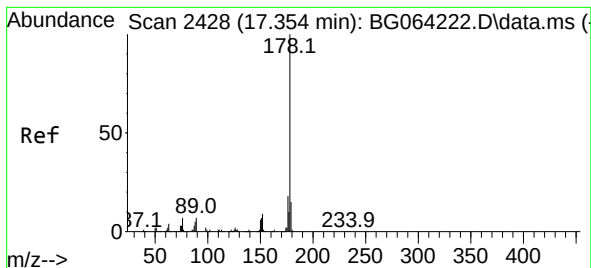
Ion Ratio Lower Upper

178 100

176 17.9 15.9 23.9

179 15.0 11.4 17.2





#72

Anthracene

Concen: 5.666 ng

RT: 17.353 min Scan# 2428

Delta R.T. -0.007 min

Lab File: BG064247.D

Acq: 2 Sep 2025 16:06

Instrument :

BNA_G

ClientSampleId :

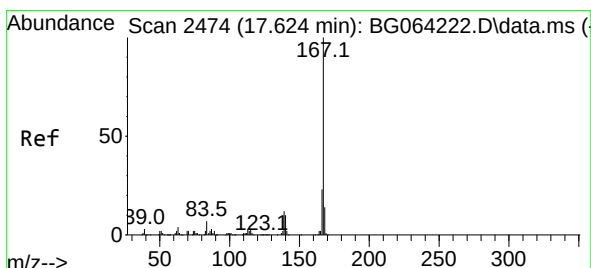
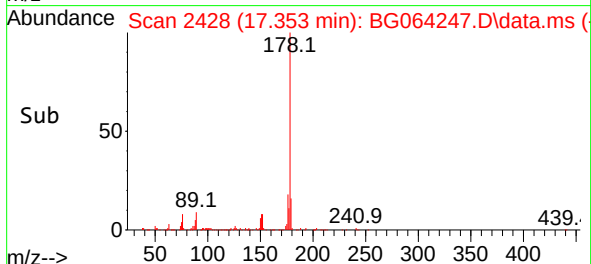
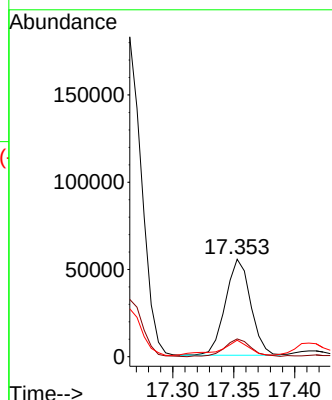
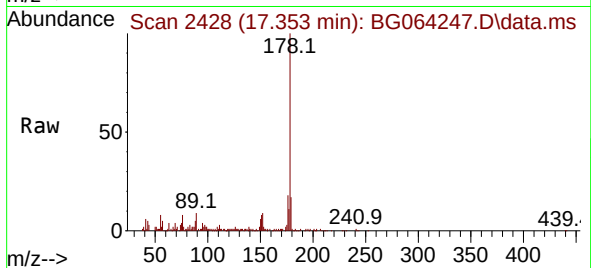
Tgt Ion:178 Resp: 79407

Ion Ratio Lower Upper

178 100

176 18.3 14.7 22.1

179 16.9 12.1 18.1



#73

Carbazole

Concen: 2.547 ng

RT: 17.623 min Scan# 2474

Delta R.T. -0.001 min

Lab File: BG064247.D

Acq: 2 Sep 2025 16:06

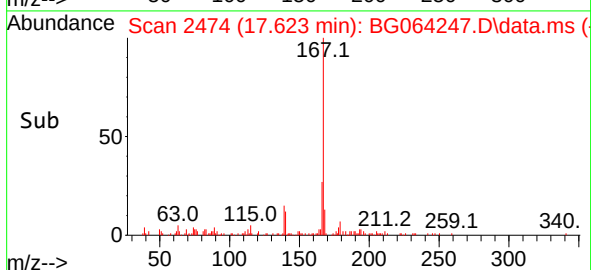
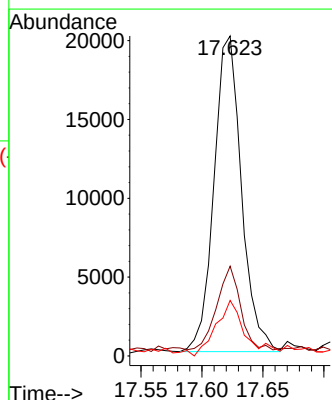
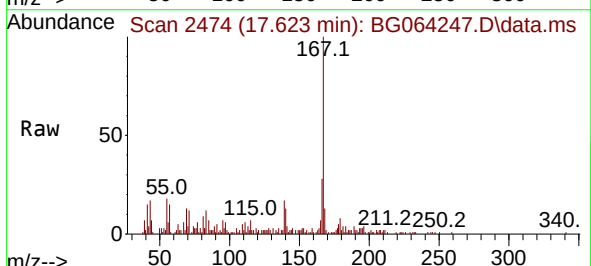
Tgt Ion:167 Resp: 31443

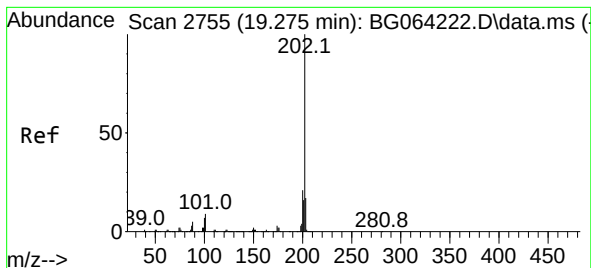
Ion Ratio Lower Upper

167 100

166 28.0 18.2 27.2#

139 17.3 9.8 14.6#





#75

Fluoranthene

Concen: 49.691 ng

RT: 19.274 min Scan# 21

Delta R.T. -0.001 min

Lab File: BG064247.D

Acq: 2 Sep 2025 16:06

Instrument :

BNA_G

ClientSampleId :

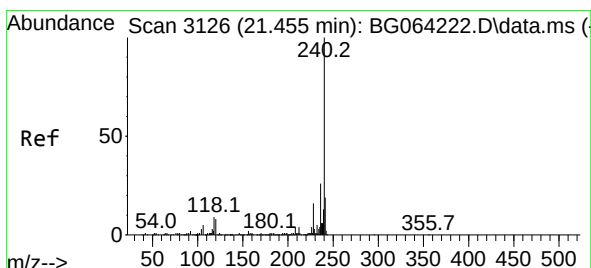
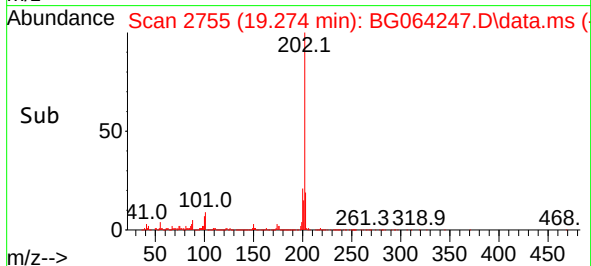
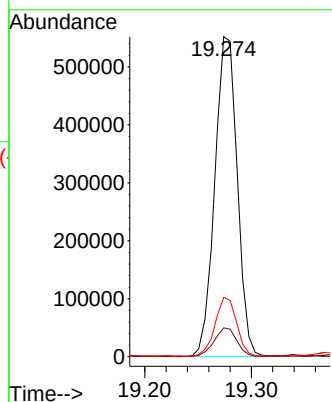
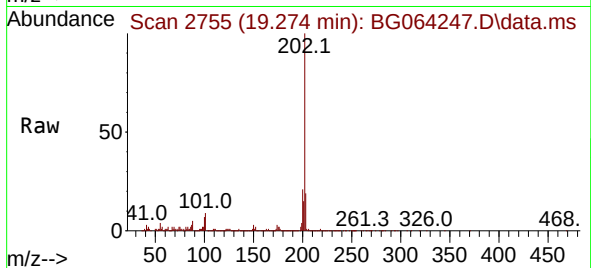
Tgt Ion:202 Resp: 804968

Ion Ratio Lower Upper

202 100

101 9.0 0.0 28.7

203 18.5 0.0 36.9



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.454 min Scan# 3126

Delta R.T. -0.001 min

Lab File: BG064247.D

Acq: 2 Sep 2025 16:06

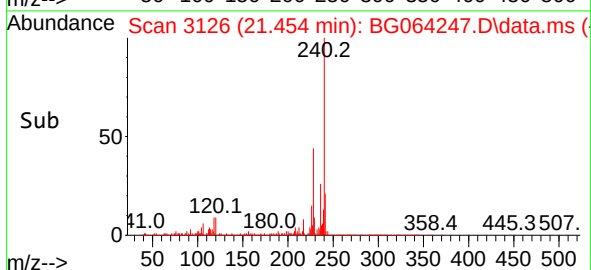
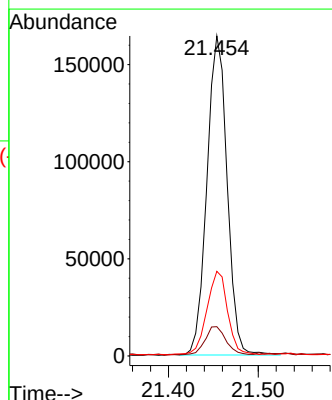
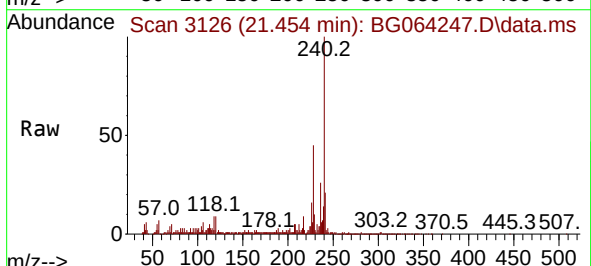
Tgt Ion:240 Resp: 257026

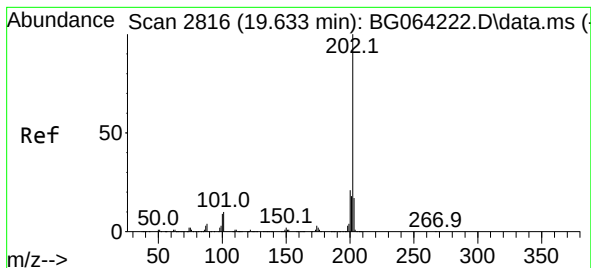
Ion Ratio Lower Upper

240 100

120 9.2 6.2 9.4

236 26.4 20.5 30.7





#78

Pyrene

Concen: 47.705 ng

RT: 19.638 min Scan# 2816

Delta R.T. -0.001 min

Lab File: BG064247.D

Acq: 2 Sep 2025 16:06

Instrument :

BNA_G

ClientSampleId :

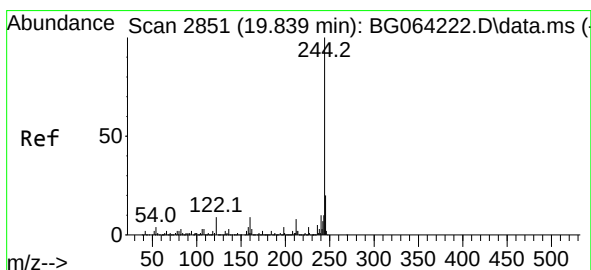
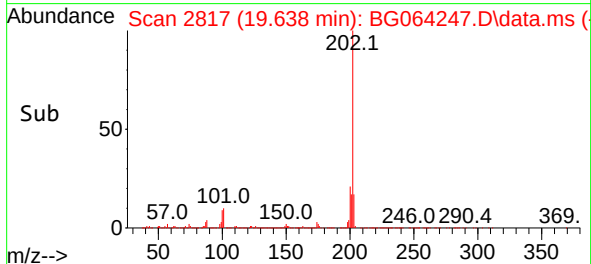
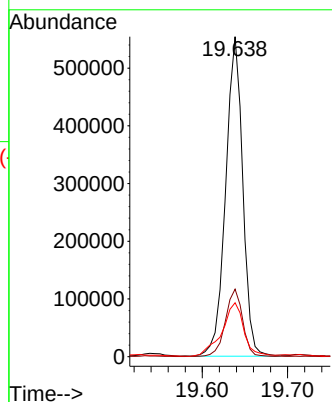
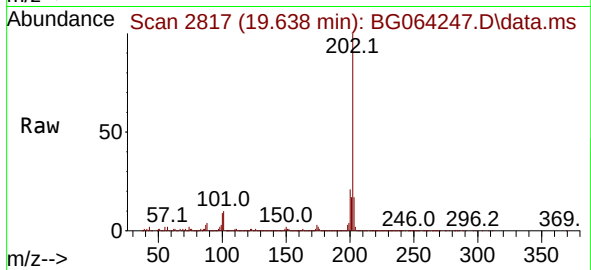
Tgt Ion:202 Resp: 772485

Ion Ratio Lower Upper

202 100

200 21.1 16.9 25.3

203 16.8 13.8 20.8



#79

Terphenyl-d14

Concen: 18.026 ng

RT: 19.838 min Scan# 2851

Delta R.T. -0.007 min

Lab File: BG064247.D

Acq: 2 Sep 2025 16:06

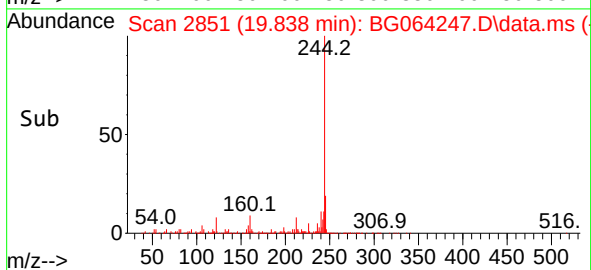
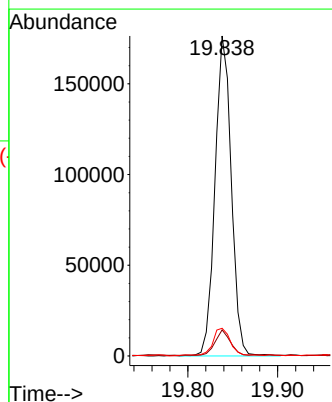
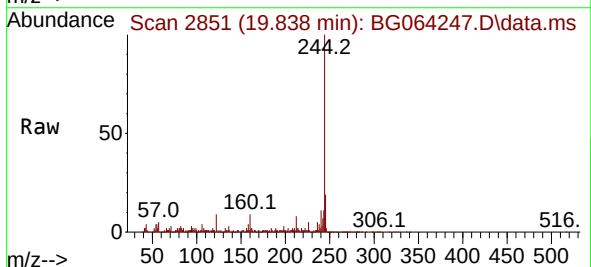
Tgt Ion:244 Resp: 222074

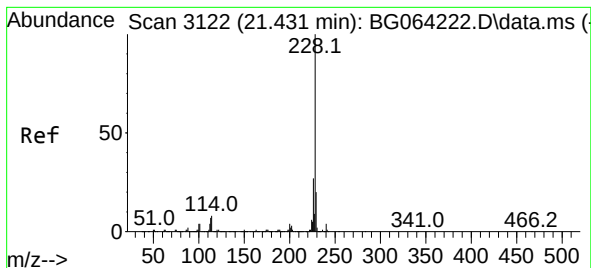
Ion Ratio Lower Upper

244 100

212 8.2 6.6 10.0

122 8.6 7.0 10.6





#81

Benzo(a)anthracene

Concen: 27.751 ng

RT: 21.436 min Scan# 3122

Delta R.T. -0.001 min

Lab File: BG064247.D

Acq: 2 Sep 2025 16:06

Instrument :

BNA_G

ClientSampleId :

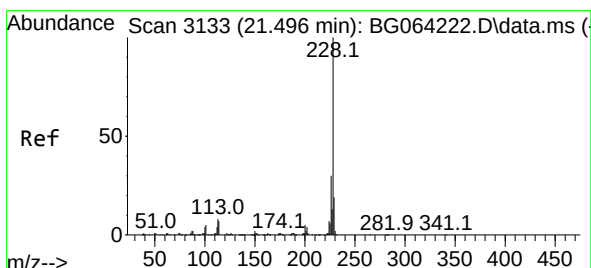
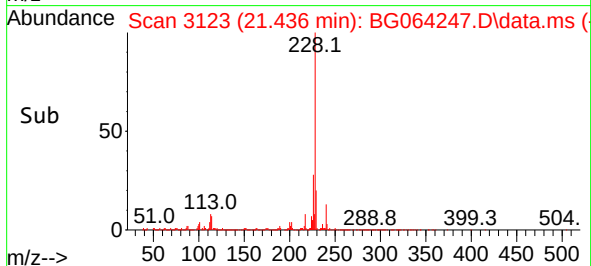
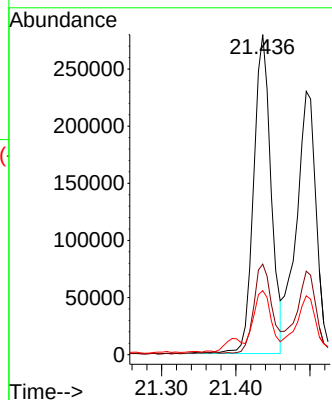
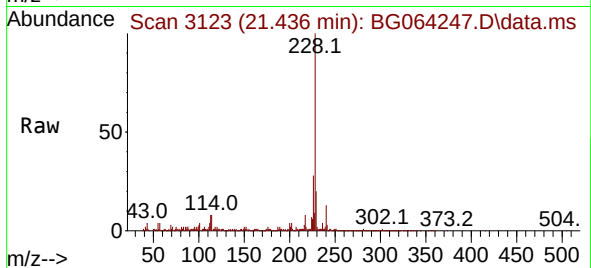
Tgt Ion:228 Resp: 456321

Ion Ratio Lower Upper

228 100

226 28.3 21.7 32.5

229 20.0 15.9 23.9



#83

Chrysene

Concen: 26.244 ng

RT: 21.495 min Scan# 3133

Delta R.T. -0.007 min

Lab File: BG064247.D

Acq: 2 Sep 2025 16:06

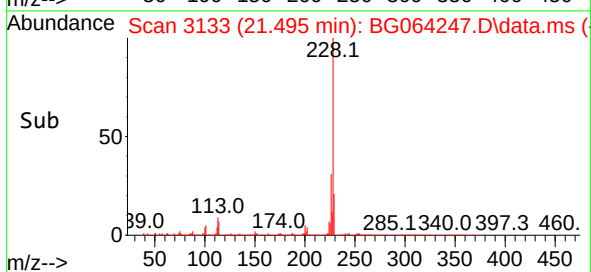
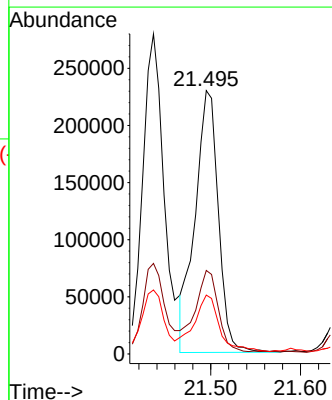
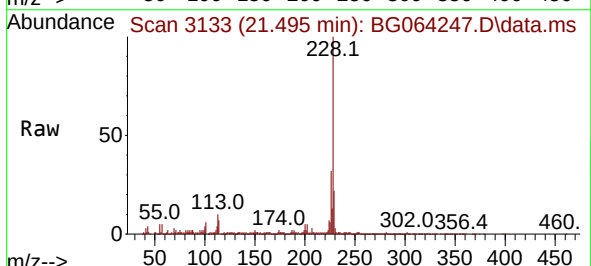
Tgt Ion:228 Resp: 414294

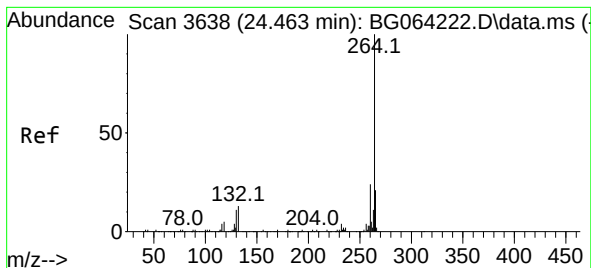
Ion Ratio Lower Upper

228 100

226 31.7 24.2 36.2

229 22.4 15.4 23.2





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.468 min Scan# 30

Delta R.T. 0.005 min

Lab File: BG064247.D

Acq: 2 Sep 2025 16:06

Instrument :

BNA_G

ClientSampleId :

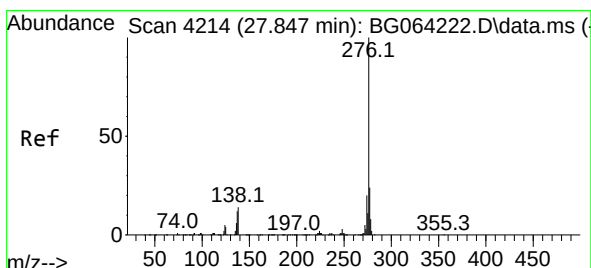
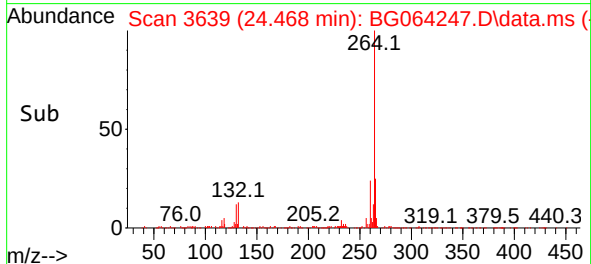
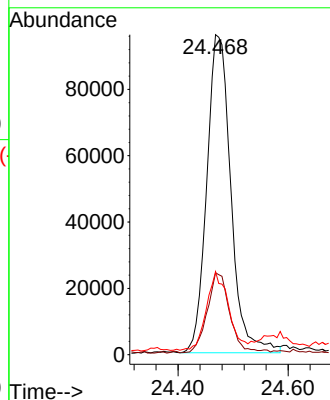
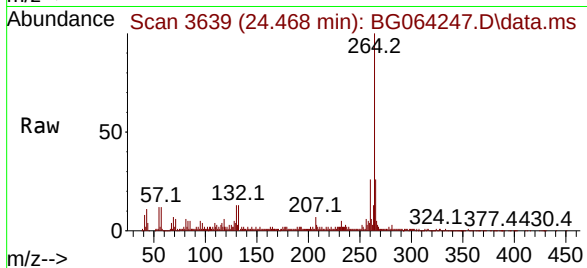
Tgt Ion:264 Resp: 291814

Ion Ratio Lower Upper

264 100

260 25.6 18.9 28.3

265 25.9 16.7 25.1#



#87

Indeno(1,2,3-cd)pyrene

Concen: 13.064 ng

RT: 27.870 min Scan# 4218

Delta R.T. -0.001 min

Lab File: BG064247.D

Acq: 2 Sep 2025 16:06

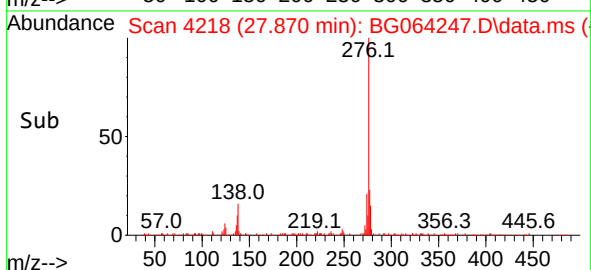
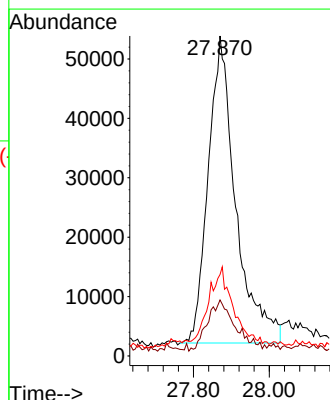
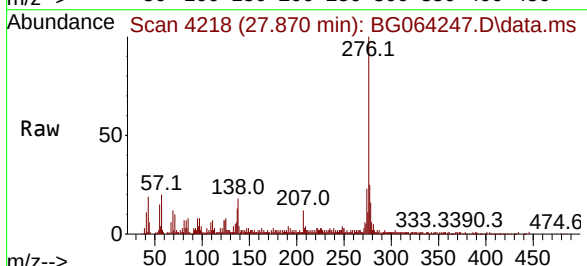
Tgt Ion:276 Resp: 260340

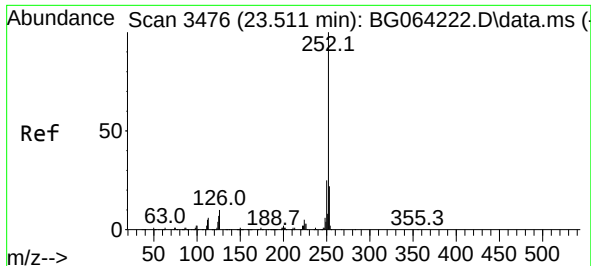
Ion Ratio Lower Upper

276 100

138 14.9 7.4 11.0#

277 23.0 20.5 30.7

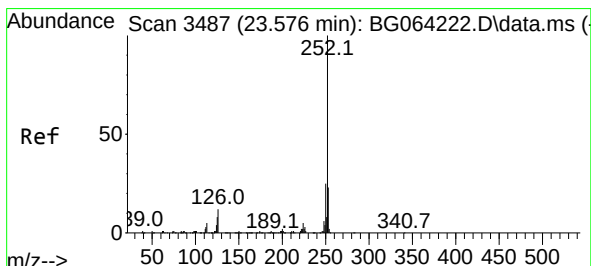
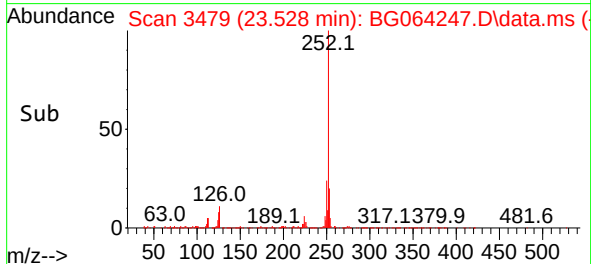
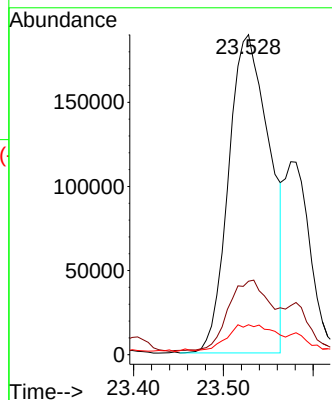
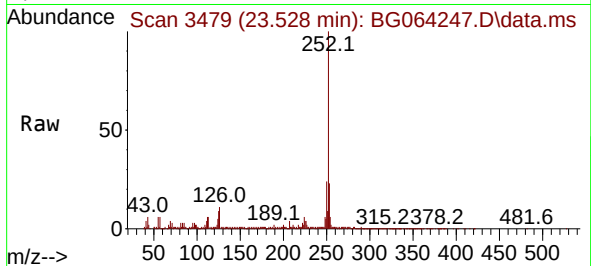




#88
Benzo(b)fluoranthene
Concen: 36.560 ng
RT: 23.528 min Scan# 3479
Delta R.T. 0.011 min
Lab File: BG064247.D
Acq: 2 Sep 2025 16:06

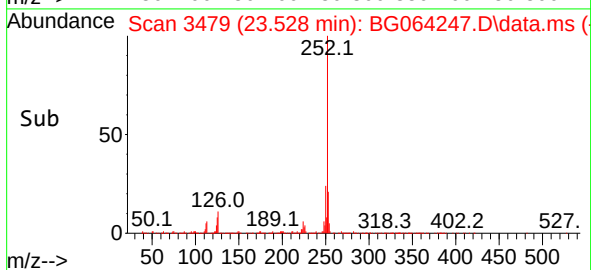
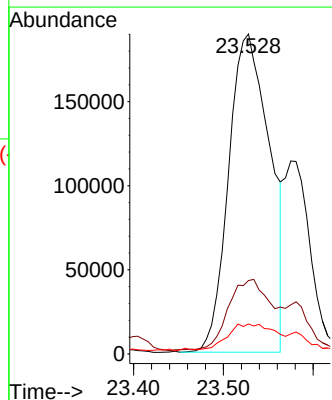
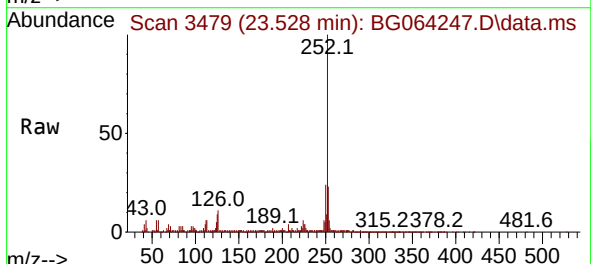
Instrument :
BNA_G
ClientSampleId :

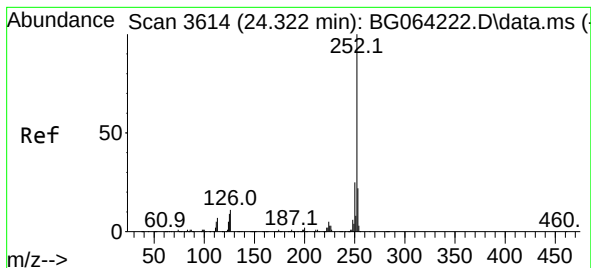
Tgt Ion:252 Resp: 602134
Ion Ratio Lower Upper
252 100
253 22.9 17.5 26.3
125 9.3 5.9 8.9#



#89
Benzo(k)fluoranthene
Concen: 35.887 ng
RT: 23.528 min Scan# 3479
Delta R.T. -0.060 min
Lab File: BG064247.D
Acq: 2 Sep 2025 16:06

Tgt Ion:252 Resp: 602134
Ion Ratio Lower Upper
252 100
253 22.9 18.2 27.4
125 9.3 7.0 10.4





#90

Benzo(a)pyrene

Concen: 29.230 ng

RT: 24.333 min Scan# 3

Delta R.T. 0.005 min

Lab File: BG064247.D

Acq: 2 Sep 2025 16:06

Instrument :

BNA_G

ClientSampleId :

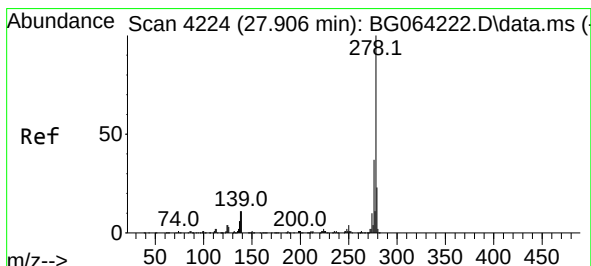
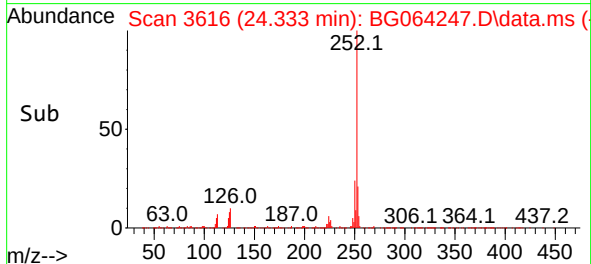
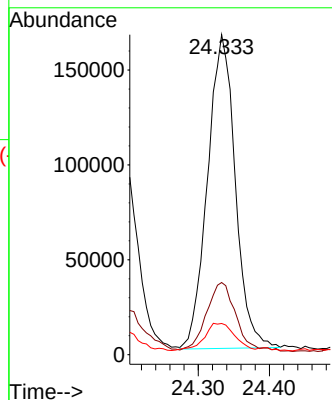
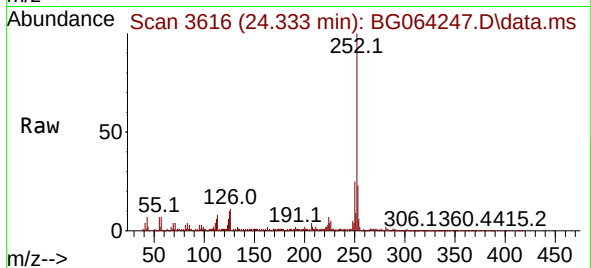
Tgt Ion:252 Resp: 447823

Ion Ratio Lower Upper

252 100

253 22.6 17.4 26.2

125 9.7 7.0 10.6



#91

Dibenzo(a,h)anthracene

Concen: 3.951 ng

RT: 27.917 min Scan# 4226

Delta R.T. -0.007 min

Lab File: BG064247.D

Acq: 2 Sep 2025 16:06

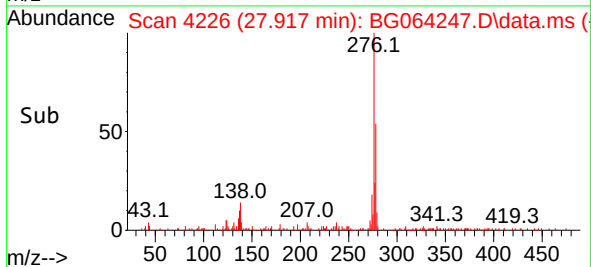
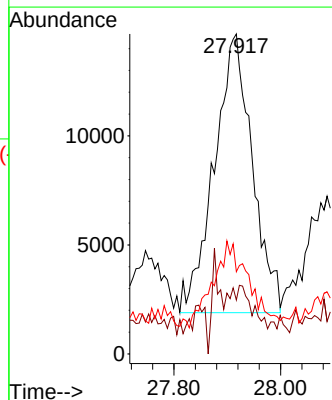
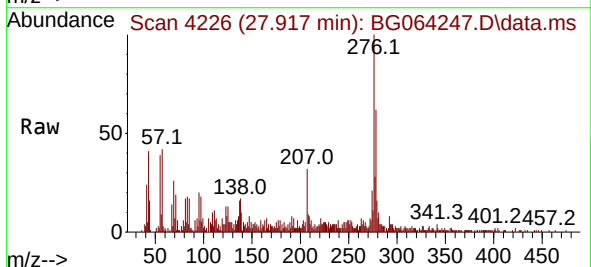
Tgt Ion:278 Resp: 63214

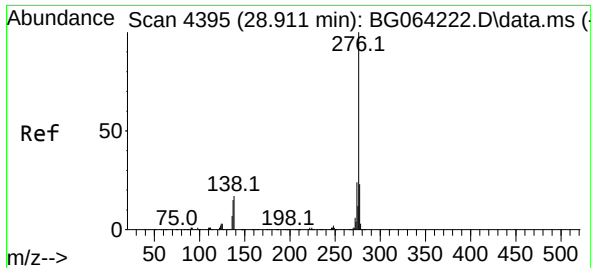
Ion Ratio Lower Upper

278 100

139 16.9 9.0 13.4#

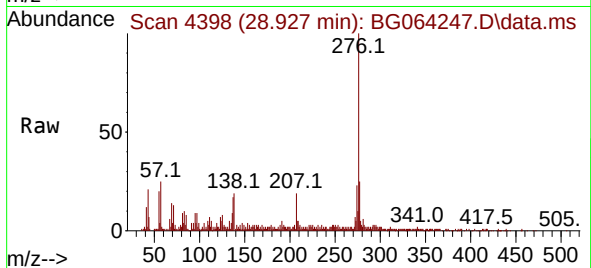
279 25.7 18.8 28.2





#92
Benzo(g,h,i)perylene
Concen: 14.852 ng
RT: 28.927 min Scan# 41
Delta R.T. -0.007 min
Lab File: BG064247.D
Acq: 2 Sep 2025 16:06

Instrument :
BNA_G
ClientSampleId :



Tgt Ion:276 Resp: 231247
Ion Ratio Lower Upper
276 100
277 24.9 18.2 27.4
138 18.7 13.3 19.9

