

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG090825\
 Data File : BG064313.D
 Acq On : 8 Sep 2025 19:03
 Operator : RC/JU
 Sample : Q3031-01 5X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 PL-01-09052025

Quant Time: Sep 09 01:32:02 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)

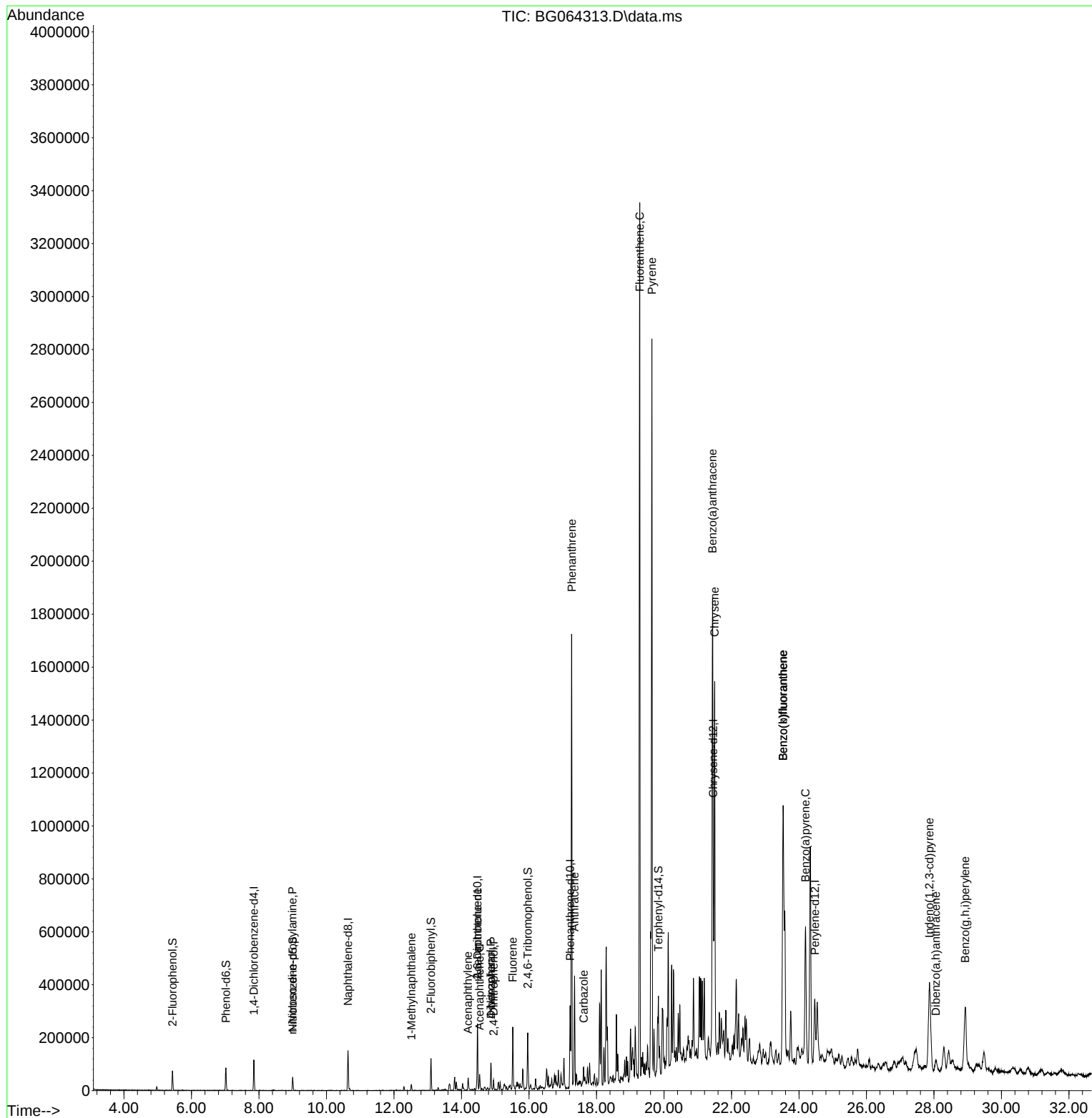
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.848	152	28661	20.000	ng	-0.01
21) Naphthalene-d8	10.639	136	117797	20.000	ng	#-0.01
39) Acenaphthene-d10	14.475	164	82427	20.000	ng	0.00
64) Phenanthrene-d10	17.219	188	186433	20.000	ng	# 0.00
76) Chrysene-d12	21.455	240	212502	20.000	ng	0.00
86) Perylene-d12	24.469	264	234153	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.439	112	28959	18.127	ng	0.00
7) Phenol-d6	7.019	99	40079	18.262	ng	-0.01
23) Nitrobenzene-d5	8.999	82	26514	12.553	ng	-0.02
42) 2,4,6-Tribromophenol	15.962	330	25120	23.008	ng	-0.01
45) 2-Fluorobiphenyl	13.094	172	58343	10.804	ng	-0.02
79) Terphenyl-d14	19.834	244	114094	11.202	ng	-0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	8.993	70	3678	2.190	ng	# 62
38) 1-Methylnaphthalene	12.513	142	10352	2.308	ng	86
49) Acenaphthylene	14.193	152	33065	4.956	ng	95
51) 2,6-Dinitrotoluene	14.475	165	13825	11.446	ng	# 16
52) Acenaphthene	14.534	154	21125	4.487	ng	99
54) 2,4-Dinitrophenol	14.951	184	99	5.768	ng	# 1
55) Dibenzofuran	14.875	168	48111	6.496	ng	# 97
56) 4-Nitrophenol	14.869	139	20024	19.294	ng	# 1
58) Fluorene	15.521	166	91850	15.132	ng	99
71) Phenanthrene	17.266	178	1084799	110.321	ng	99
72) Anthracene	17.348	178	263055	26.299	ng	98
73) Carbazole	17.619	167	42879	4.866	ng	# 88
75) Fluoranthene	19.281	202	2136773	184.812	ng	96
78) Pyrene	19.640	202	1826968	136.464	ng	97
81) Benzo(a)anthracene	21.438	228	1111785	81.779	ng	98
83) Chrysene	21.502	228	944095	72.335	ng	97
87) Indeno(1,2,3-cd)pyrene	27.865	276	539107	33.714	ng	# 98
88) Benzo(b)fluoranthene	23.529	252	1172504	88.723	ng	99
89) Benzo(k)fluoranthene	23.529	252	1172504	87.088	ng	# 98
90) Benzo(a)pyrene	24.193	252	538726	43.823	ng	98
91) Dibenzo(a,h)anthracene	28.053	278	58338	4.544	ng	94
92) Benzo(g,h,i)perylene	28.923	276	476231	38.119	ng	# 94

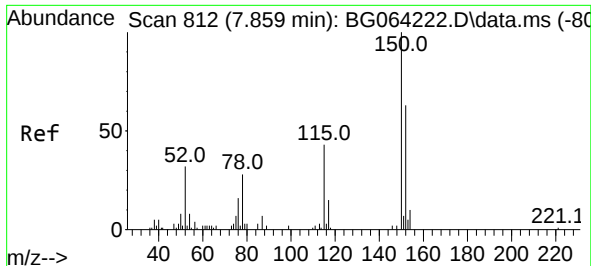
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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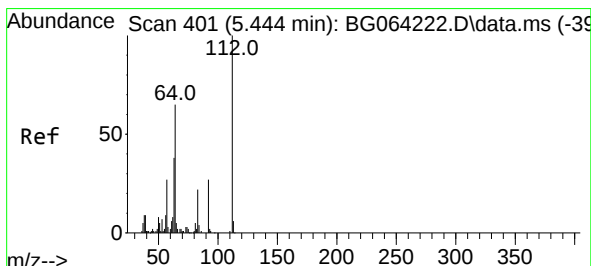
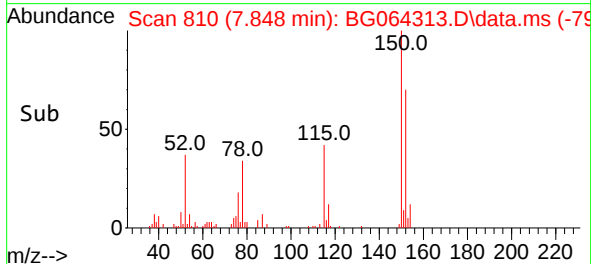
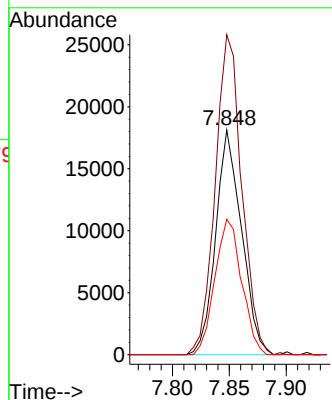
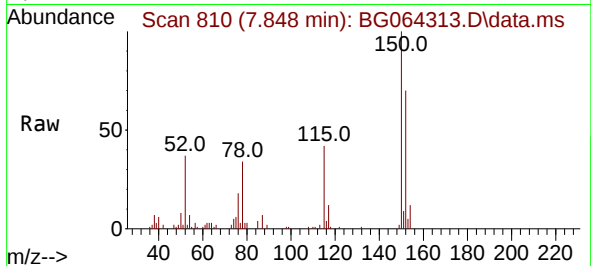




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.848 min Scan# 812
Delta R.T. -0.011 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

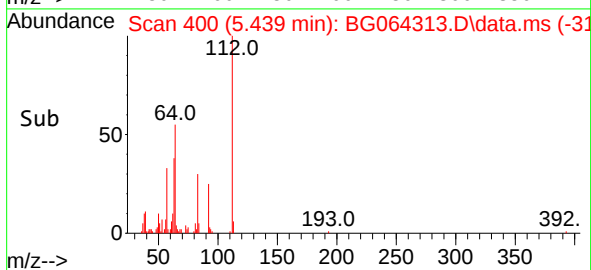
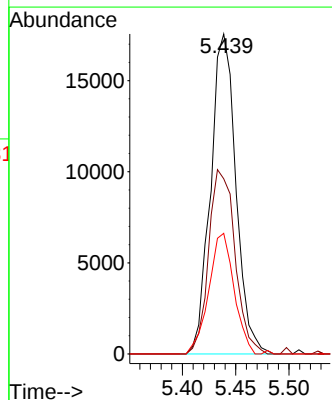
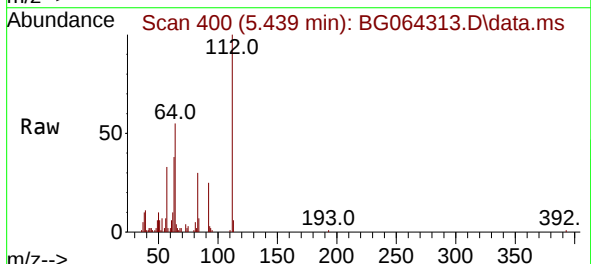
Instrument :
BNA_G
ClientSampleId :
PL-01-09052025

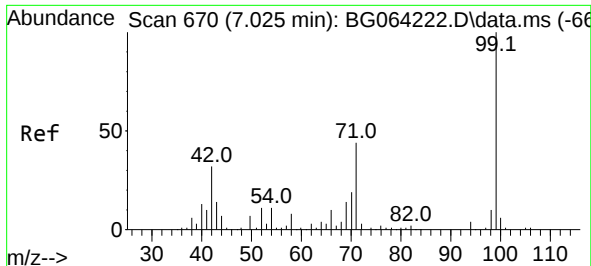
Tgt Ion:152 Resp: 28661
Ion Ratio Lower Upper
152 100
150 142.5 128.0 192.0
115 60.2 55.7 83.5



#5
2-Fluorophenol
Concen: 18.127 ng
RT: 5.439 min Scan# 400
Delta R.T. -0.006 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

Tgt Ion:112 Resp: 28959
Ion Ratio Lower Upper
112 100
64 54.8 51.8 77.6
63 37.7 30.6 45.8

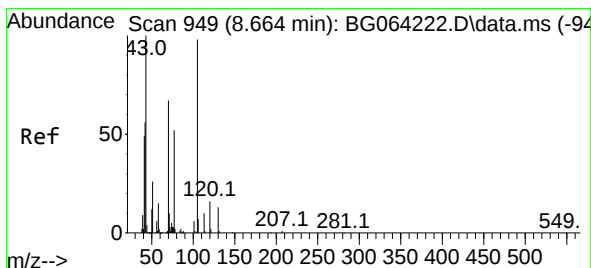
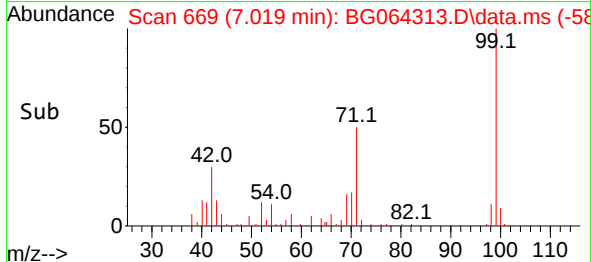
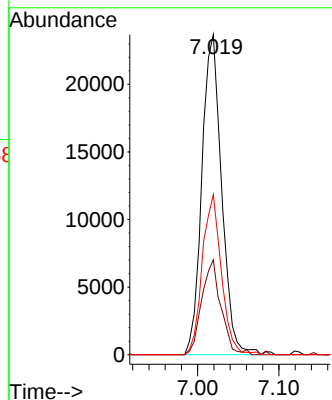
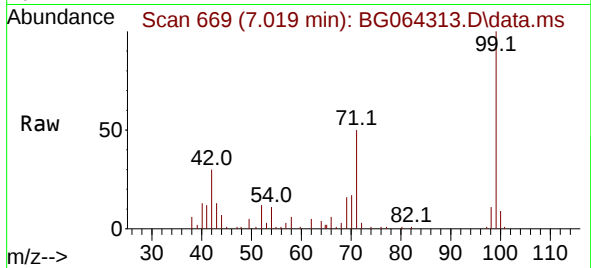




#7
Phenol-d6
Concen: 18.262 ng
RT: 7.019 min Scan# 60
Delta R.T. -0.011 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

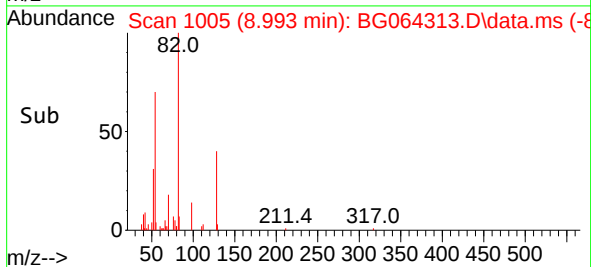
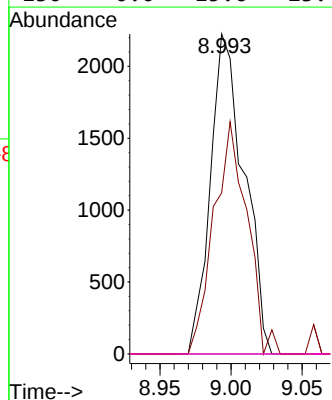
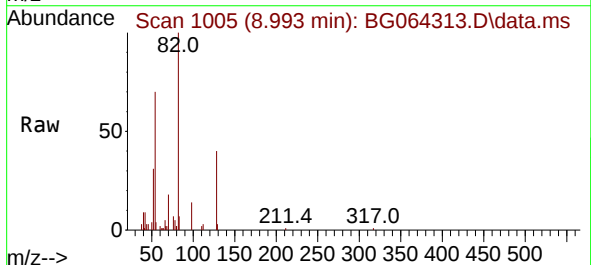
Instrument :
BNA_G
ClientSampleId :
PL-01-09052025

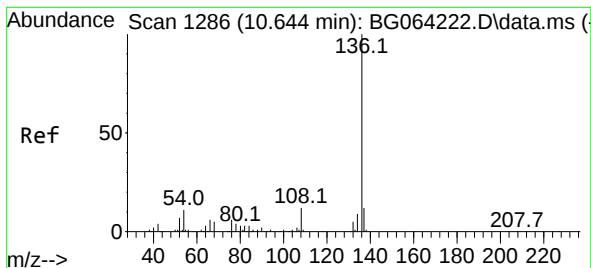
Tgt Ion: 99 Resp: 40079
Ion Ratio Lower Upper
99 100
42 29.7 25.8 38.8
71 50.0 35.2 52.8



#19
n-Nitroso-di-n-propylamine
Concen: 2.190 ng
RT: 8.993 min Scan# 1005
Delta R.T. 0.329 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

Tgt Ion: 70 Resp: 3678
Ion Ratio Lower Upper
70 100
42 50.3 67.9 101.9#
101 0.0 7.3 10.9#
130 0.0 15.6 23.4#

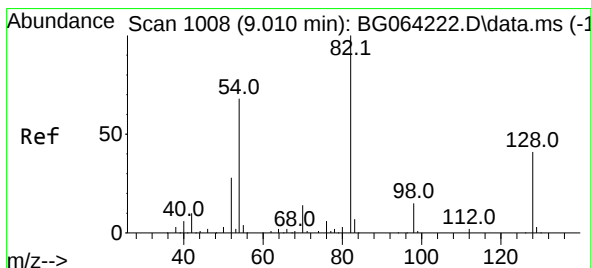
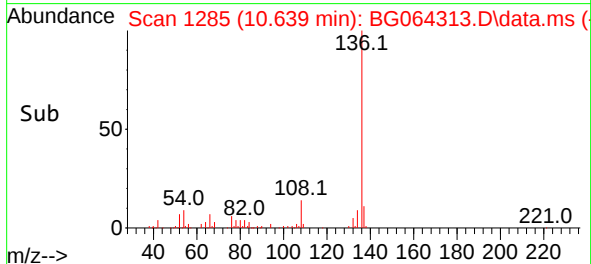
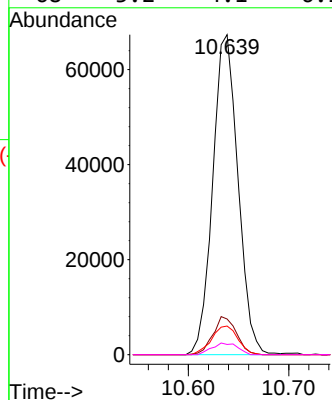
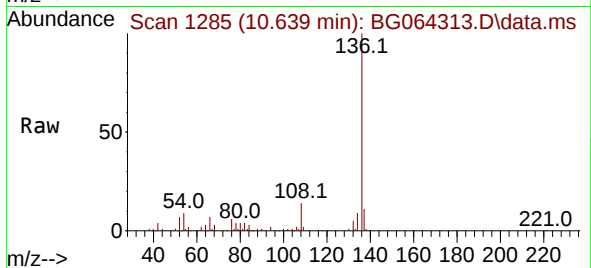




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.639 min Scan# 11
Delta R.T. -0.011 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

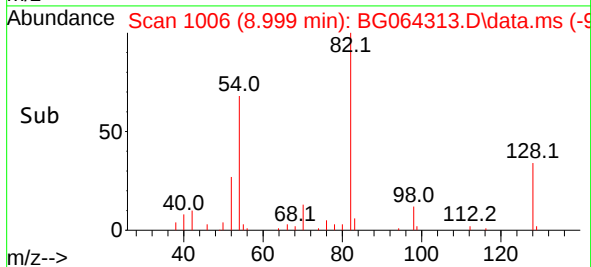
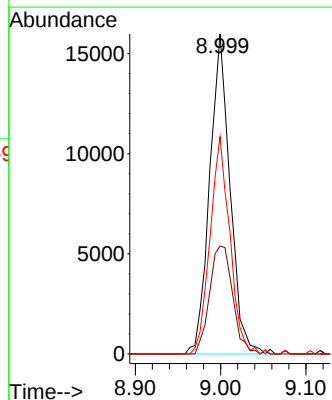
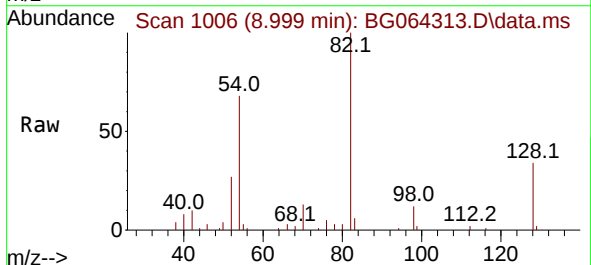
Instrument :
BNA_G
ClientSampleId :
PL-01-09052025

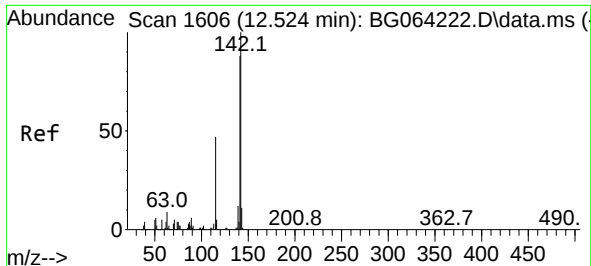
Tgt Ion:136 Resp: 117797
Ion Ratio Lower Upper
136 100
137 11.2 9.6 14.4
54 9.6 8.8 13.2
68 3.2 4.1 6.1#



#23
Nitrobenzene-d5
Concen: 12.553 ng
RT: 8.999 min Scan# 1006
Delta R.T. -0.017 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

Tgt Ion: 82 Resp: 26514
Ion Ratio Lower Upper
82 100
128 33.8 32.6 48.8
54 67.9 54.7 82.1

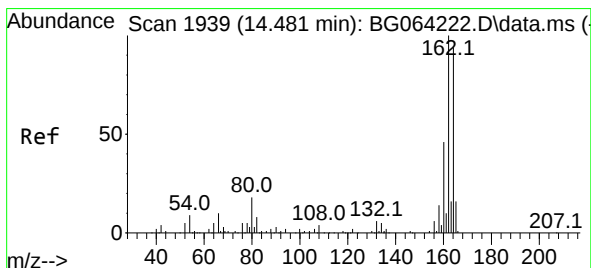
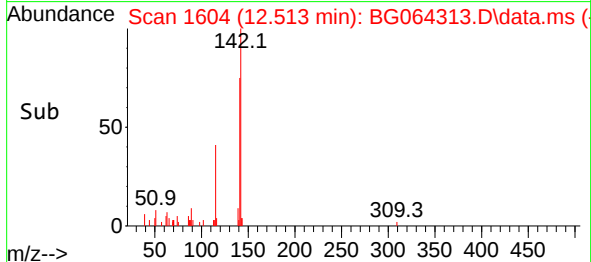
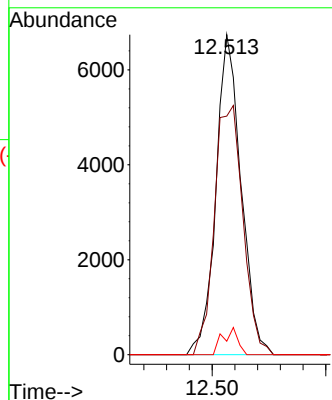
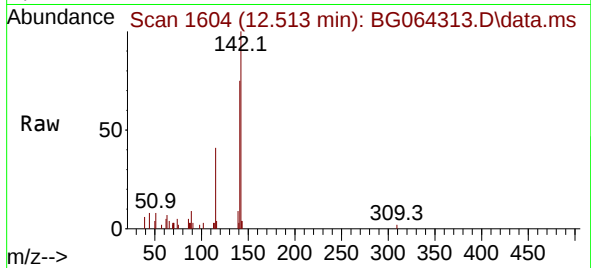




#38
1-Methylnaphthalene
Concen: 2.308 ng
RT: 12.513 min Scan# 1
Delta R.T. -0.011 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

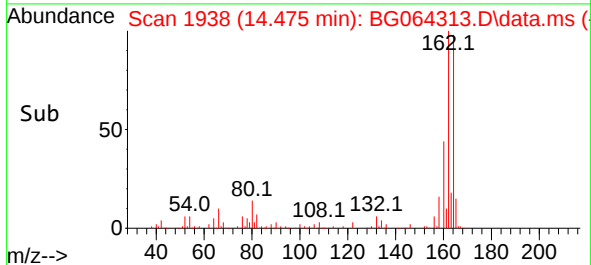
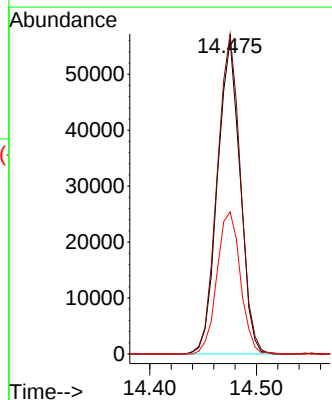
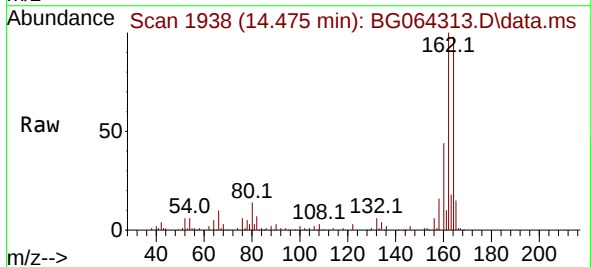
Instrument :
BNA_G
ClientSampleId :
PL-01-09052025

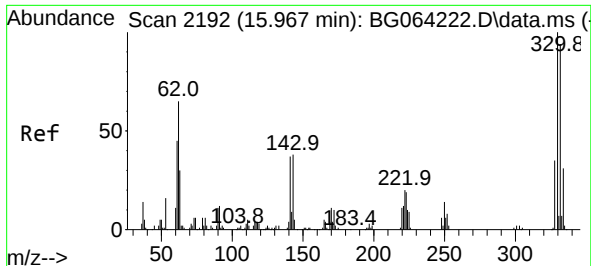
Tgt Ion:142 Resp: 10352
Ion Ratio Lower Upper
142 100
141 74.5 70.3 105.5
116 4.2 3.7 5.5



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.475 min Scan# 1938
Delta R.T. -0.006 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

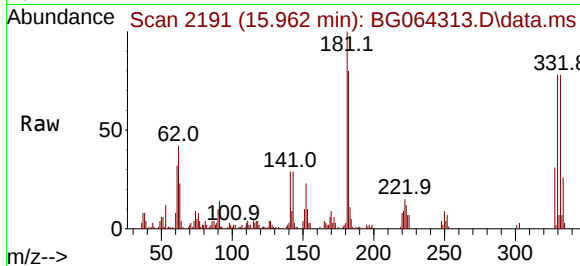
Tgt Ion:164 Resp: 82427
Ion Ratio Lower Upper
164 100
162 101.9 85.4 128.0
160 45.3 39.2 58.8



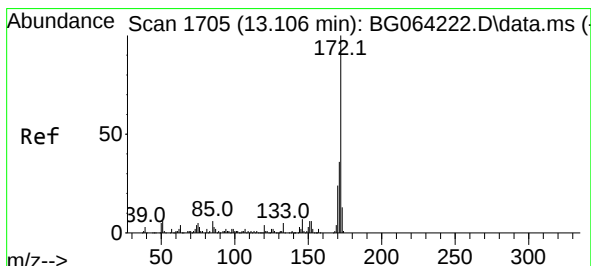
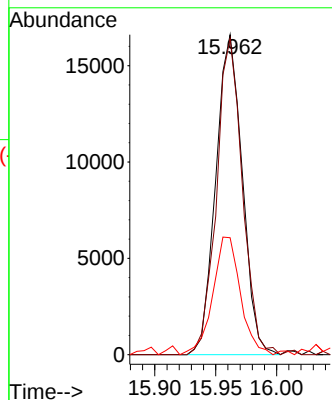
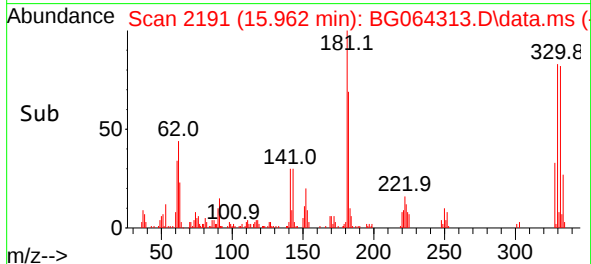


#42
2,4,6-Tribromophenol
Concen: 23.008 ng
RT: 15.962 min Scan# 2192
Delta R.T. -0.011 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

Instrument :
BNA_G
ClientSampleId :
PL-01-09052025

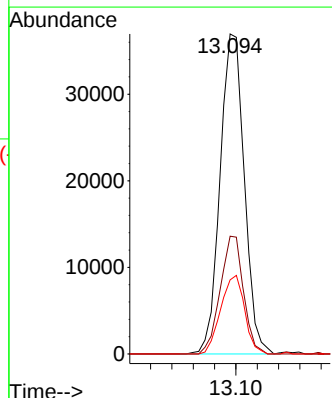
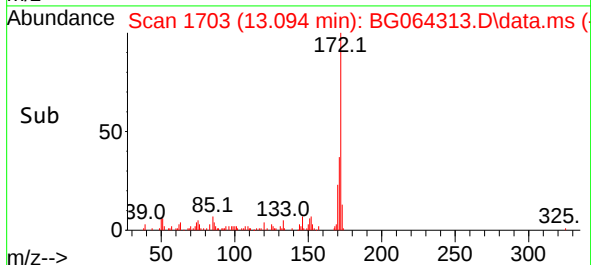
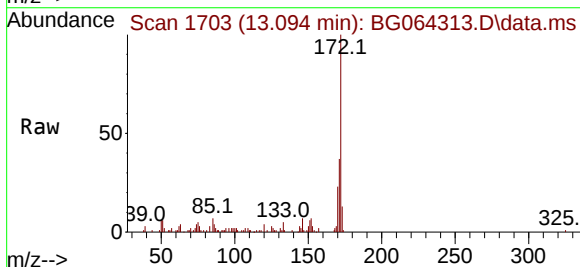


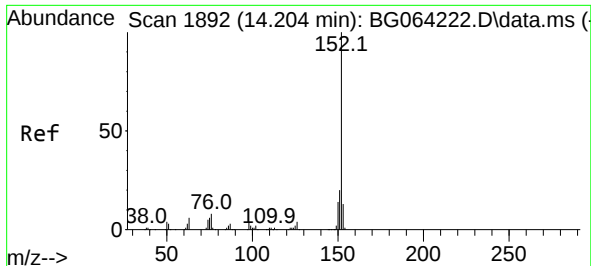
Tgt Ion:330 Resp: 25120
Ion Ratio Lower Upper
330 100
332 96.9 77.6 116.4
141 38.4 29.8 44.6



#45
2-Fluorobiphenyl
Concen: 10.804 ng
RT: 13.094 min Scan# 1703
Delta R.T. -0.017 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

Tgt Ion:172 Resp: 58343
Ion Ratio Lower Upper
172 100
171 36.8 28.7 43.1
170 23.2 19.0 28.6

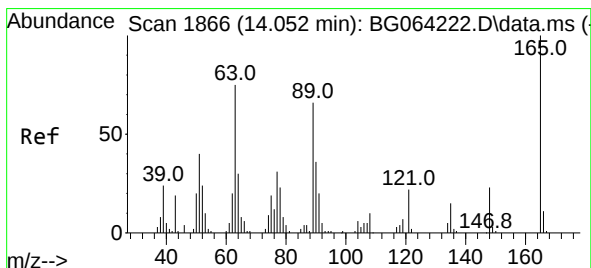
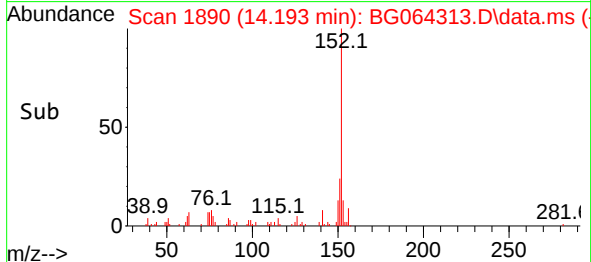
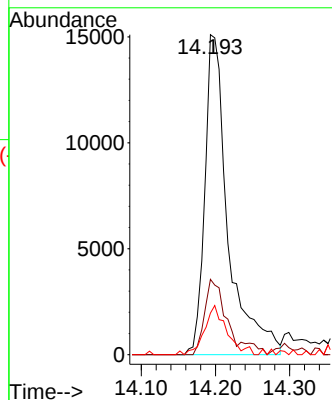
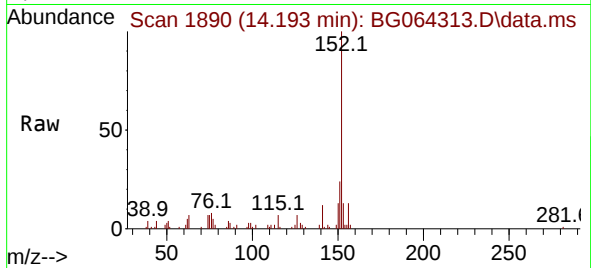




#49
Acenaphthylene
Concen: 4.956 ng
RT: 14.193 min Scan# 1
Delta R.T. -0.011 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

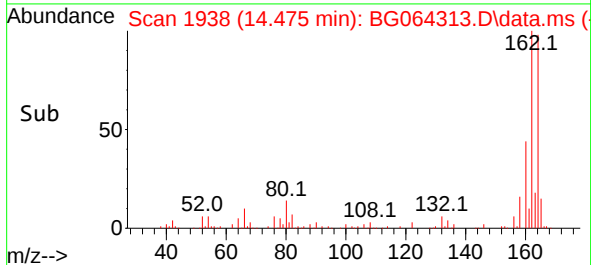
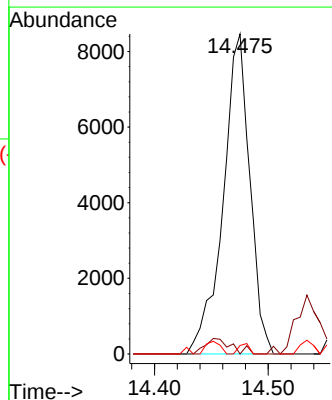
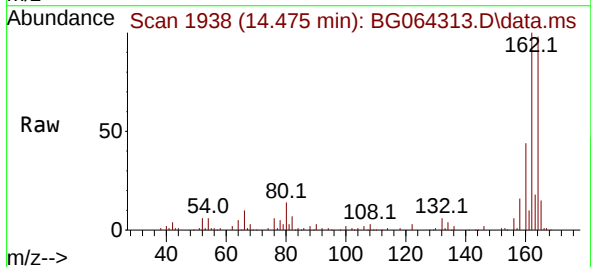
Instrument :
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PL-01-09052025

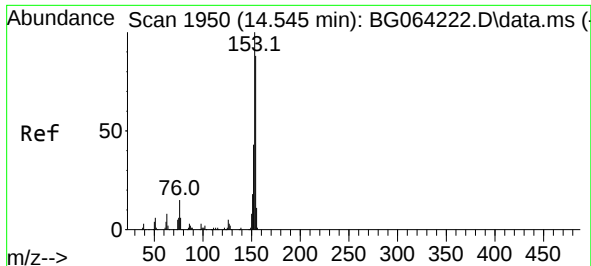
Tgt Ion:152 Resp: 33065
Ion Ratio Lower Upper
152 100
151 23.5 16.2 24.2
153 13.0 10.1 15.1



#51
2,6-Dinitrotoluene
Concen: 11.446 ng
RT: 14.475 min Scan# 1938
Delta R.T. 0.417 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

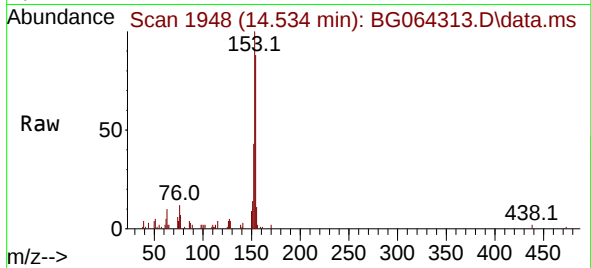
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Ion Ratio Lower Upper
165 100
63 0.0 60.3 90.5#
89 2.6 52.9 79.3#



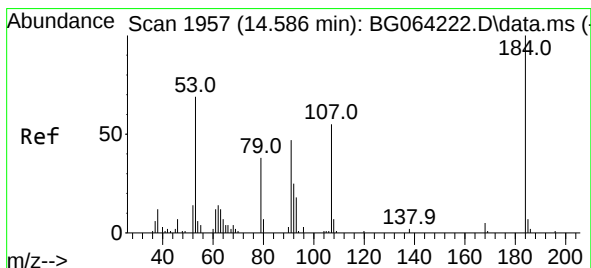
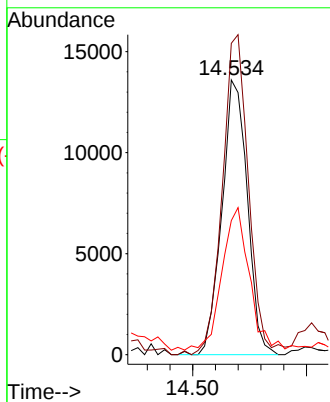
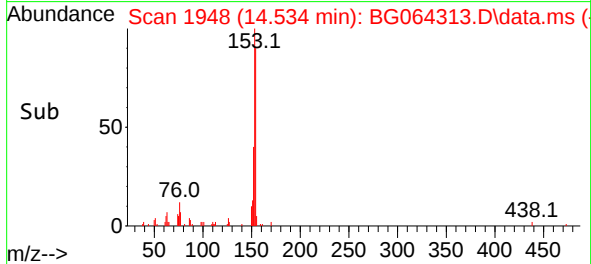


#52
Acenaphthene
Concen: 4.487 ng
RT: 14.534 min Scan# 1948
Delta R.T. -0.017 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

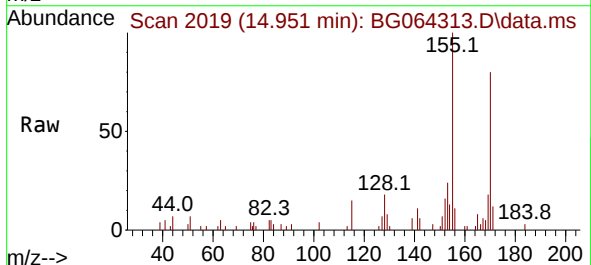
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BNA_G
ClientSampleId :
PL-01-09052025



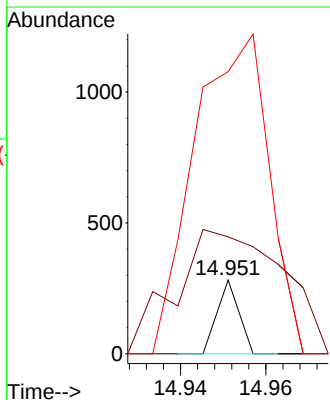
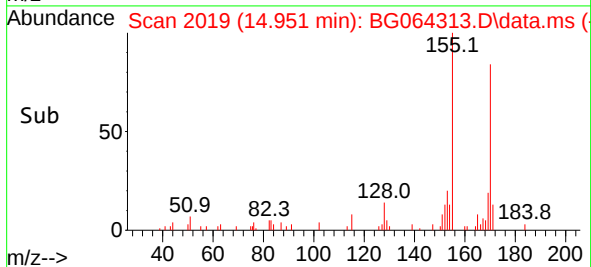
Tgt Ion:154 Resp: 21125
Ion Ratio Lower Upper
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153 113.4 91.1 136.7
152 48.8 39.6 59.4

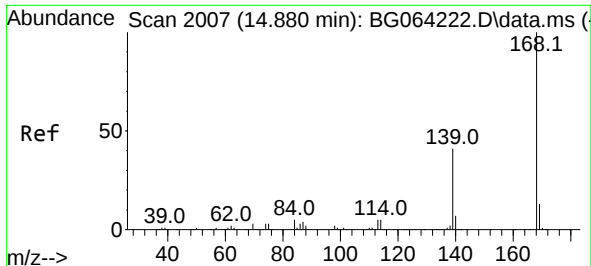


#54
2,4-Dinitrophenol
Concen: 5.768 ng
RT: 14.951 min Scan# 2019
Delta R.T. 0.359 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03



Tgt Ion:184 Resp: 99
Ion Ratio Lower Upper
184 100
63 158.5 60.1 90.1#
154 382.3 59.8 89.8#

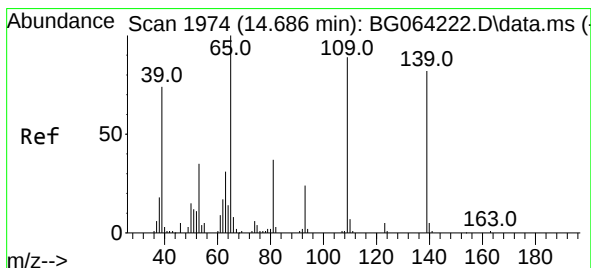
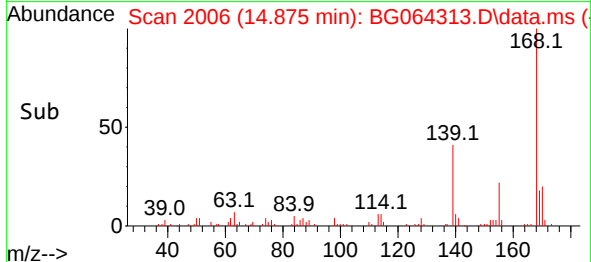
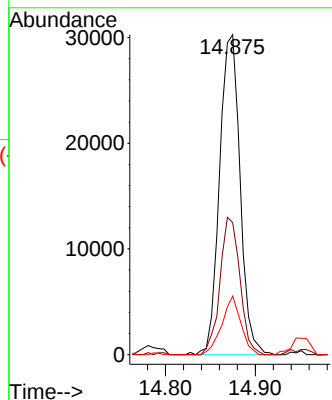
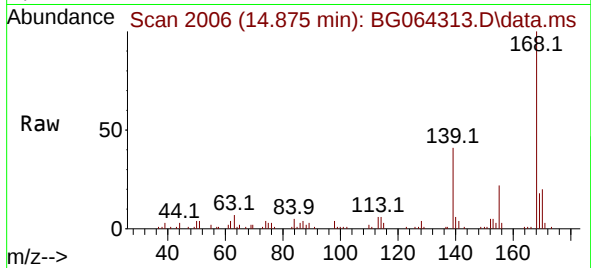




#55
Dibenzofuran
Concen: 6.496 ng
RT: 14.875 min Scan# 2006
Delta R.T. -0.006 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

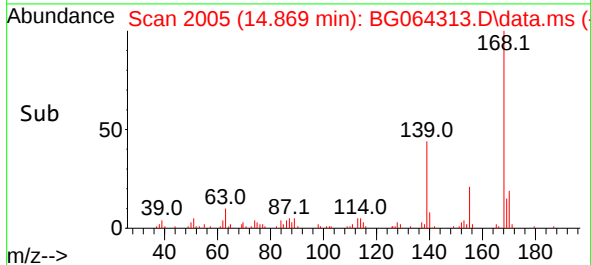
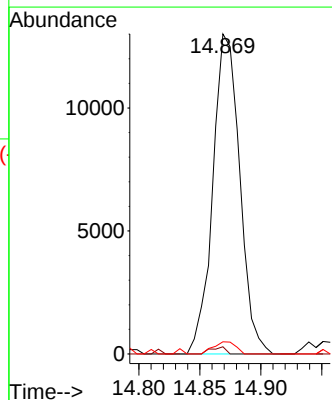
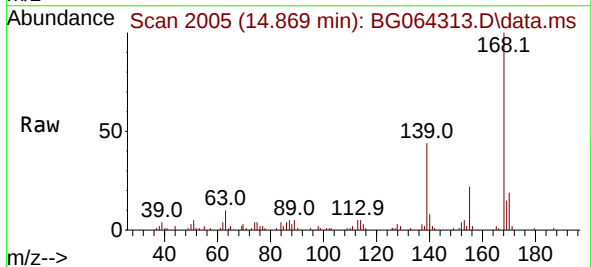
Instrument :
BNA_G
ClientSampleId :
PL-01-09052025

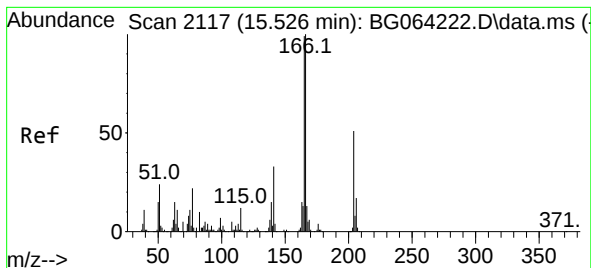
Tgt Ion:168 Resp: 48111
Ion Ratio Lower Upper
168 100
139 41.3 33.2 49.8
169 18.3 10.4 15.6#



#56
4-Nitrophenol
Concen: 19.294 ng
RT: 14.869 min Scan# 2005
Delta R.T. 0.171 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

Tgt Ion:139 Resp: 20024
Ion Ratio Lower Upper
139 100
109 2.3 89.1 129.1#
65 3.8 102.9 142.9#





#58

Fluorene

Concen: 15.132 ng

RT: 15.521 min Scan# 2116

Delta R.T. -0.011 min

Lab File: BG064313.D

Acq: 8 Sep 2025 19:03

Instrument :

BNA_G

ClientSampleId :

PL-01-09052025

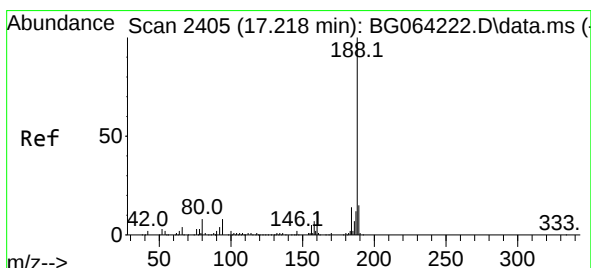
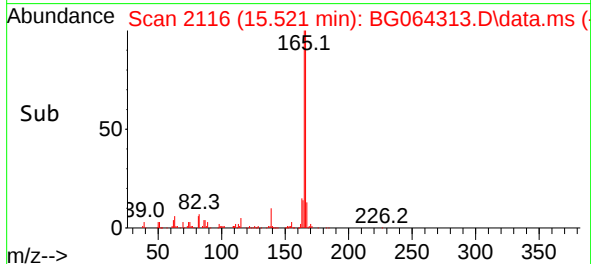
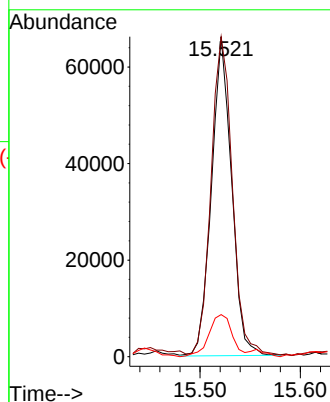
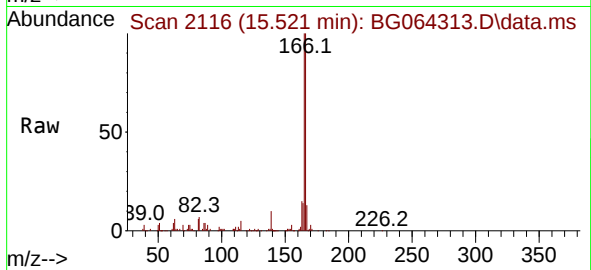
Tgt Ion:166 Resp: 91850

Ion Ratio Lower Upper

166 100

165 100.0 79.1 118.7

167 13.2 10.2 15.4



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.219 min Scan# 2405

Delta R.T. -0.006 min

Lab File: BG064313.D

Acq: 8 Sep 2025 19:03

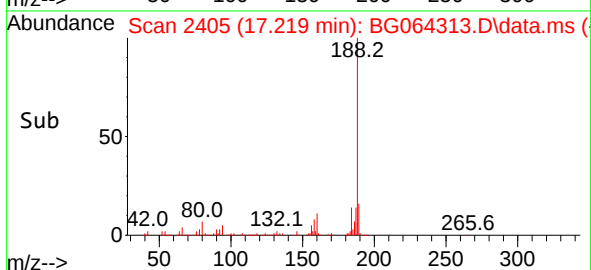
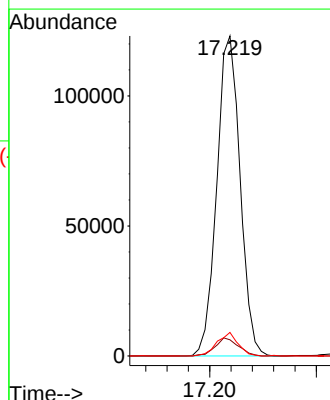
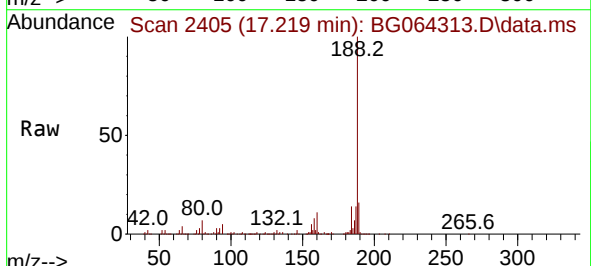
Tgt Ion:188 Resp: 186433

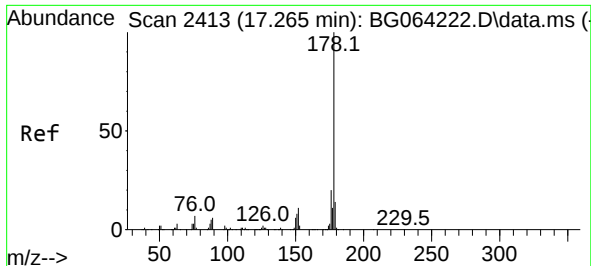
Ion Ratio Lower Upper

188 100

94 5.0 6.2 9.4#

80 7.4 6.8 10.2

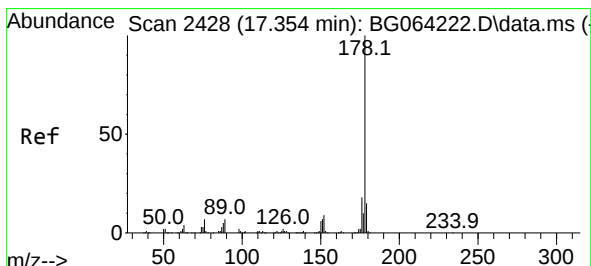
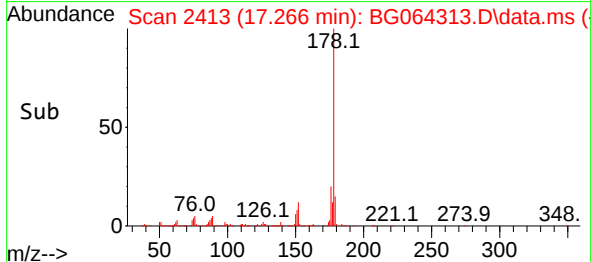
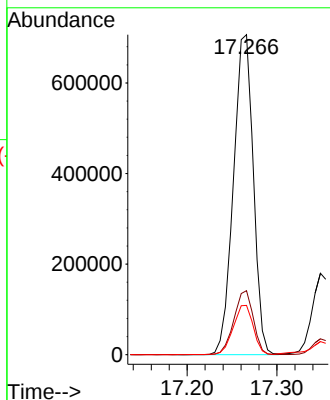
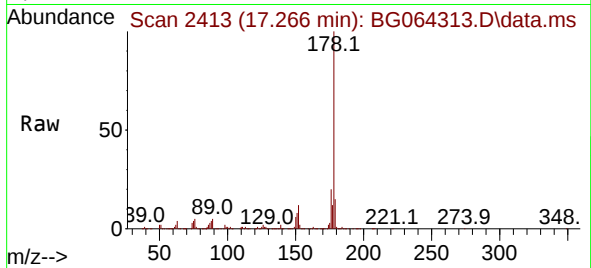




#71
Phenanthrene
Concen: 110.321 ng
RT: 17.266 min Scan# 2413
Delta R.T. 0.000 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

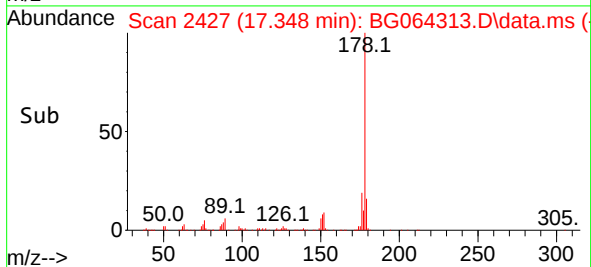
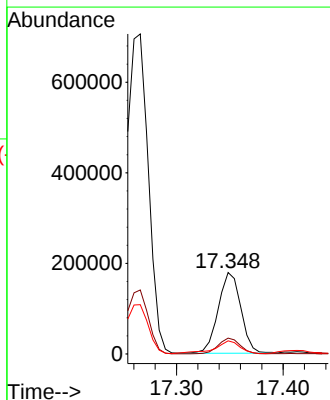
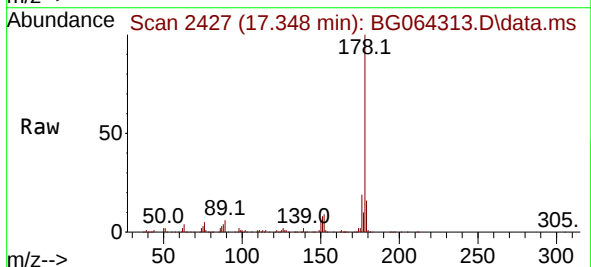
Instrument :
BNA_G
ClientSampleId :
PL-01-09052025

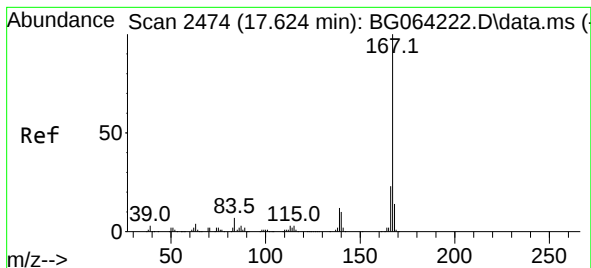
Tgt Ion:178 Resp: 1084799
Ion Ratio Lower Upper
178 100
176 20.0 15.9 23.9
179 15.4 11.4 17.2



#72
Anthracene
Concen: 26.299 ng
RT: 17.348 min Scan# 2427
Delta R.T. -0.011 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

Tgt Ion:178 Resp: 263055
Ion Ratio Lower Upper
178 100
176 19.4 14.7 22.1
179 16.1 12.1 18.1





#73

Carbazole

Concen: 4.866 ng

RT: 17.619 min Scan# 2473

Delta R.T. -0.006 min

Lab File: BG064313.D

Acq: 8 Sep 2025 19:03

Instrument :

BNA_G

ClientSampleId :

PL-01-09052025

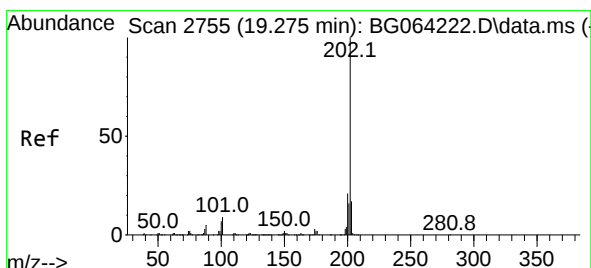
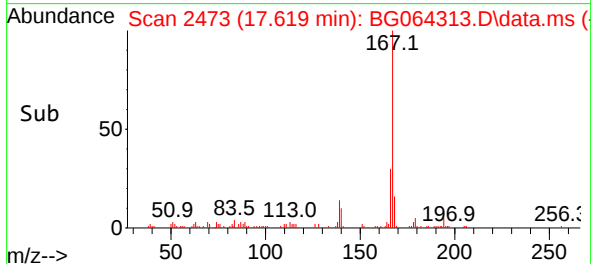
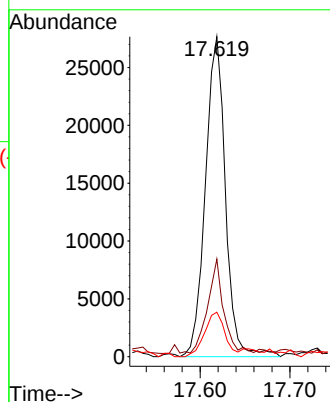
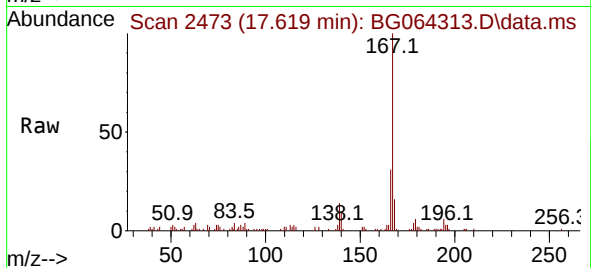
Tgt Ion:167 Resp: 42879

Ion Ratio Lower Upper

167 100

166 30.5 18.2 27.2#

139 13.9 9.8 14.6



#75

Fluoranthene

Concen: 184.812 ng

RT: 19.281 min Scan# 2756

Delta R.T. 0.006 min

Lab File: BG064313.D

Acq: 8 Sep 2025 19:03

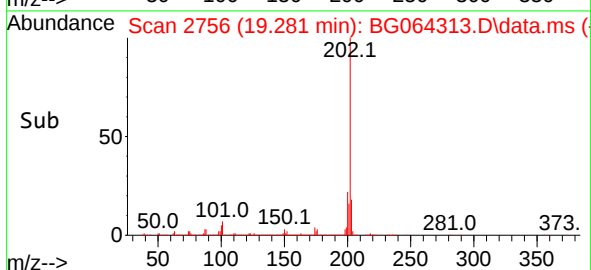
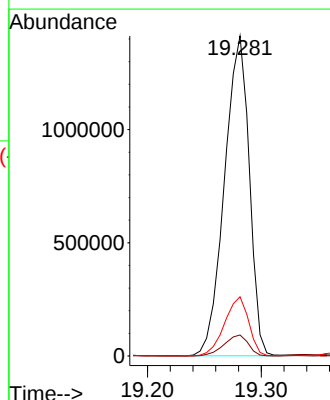
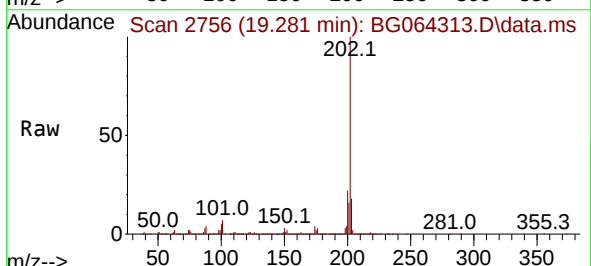
Tgt Ion:202 Resp: 2136773

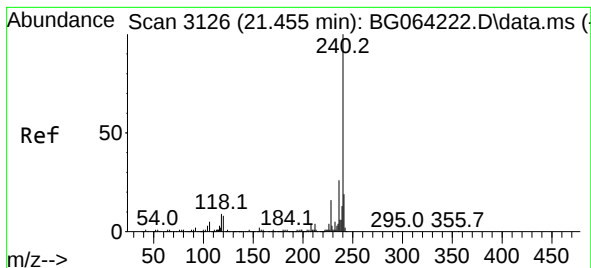
Ion Ratio Lower Upper

202 100

101 6.6 0.0 28.7

203 18.5 0.0 36.9





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.455 min Scan# 31

Delta R.T. 0.000 min

Lab File: BG064313.D

Acq: 8 Sep 2025 19:03

Instrument :

BNA_G

ClientSampleId :

PL-01-09052025

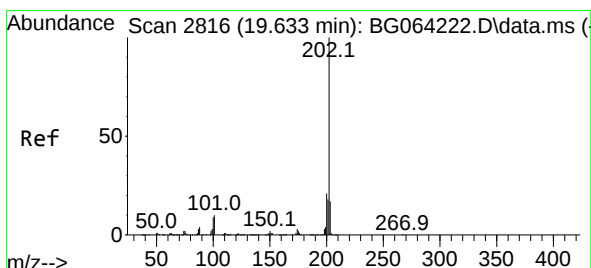
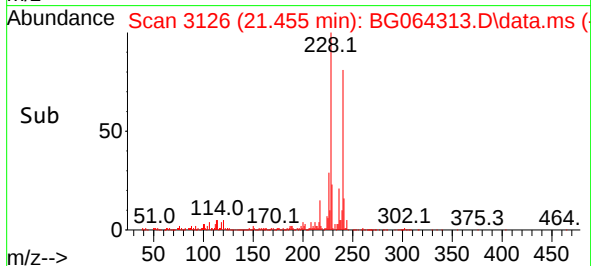
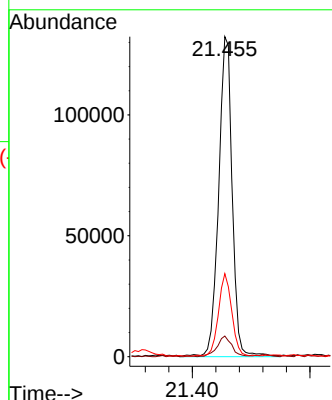
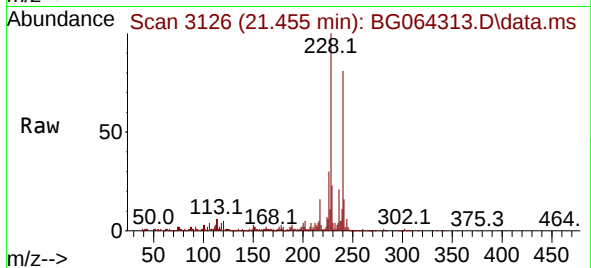
Tgt Ion:240 Resp: 212502

Ion Ratio Lower Upper

240 100

120 6.4 6.2 9.4

236 25.9 20.5 30.7



#78

Pyrene

Concen: 136.464 ng

RT: 19.640 min Scan# 2817

Delta R.T. 0.000 min

Lab File: BG064313.D

Acq: 8 Sep 2025 19:03

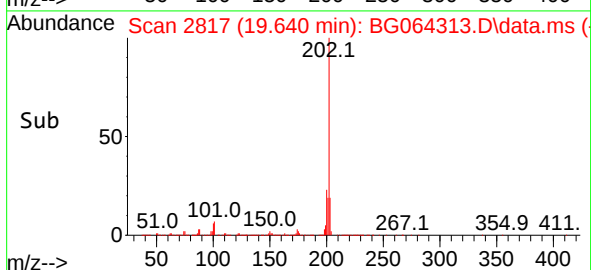
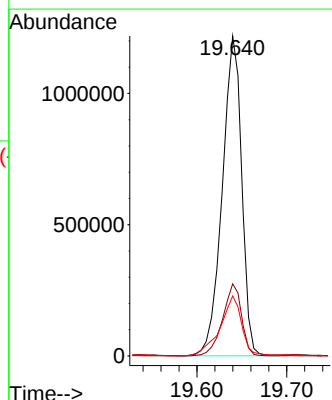
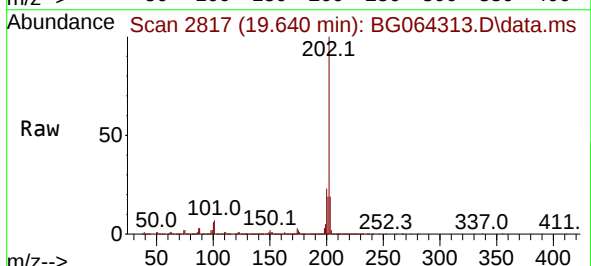
Tgt Ion:202 Resp: 1826968

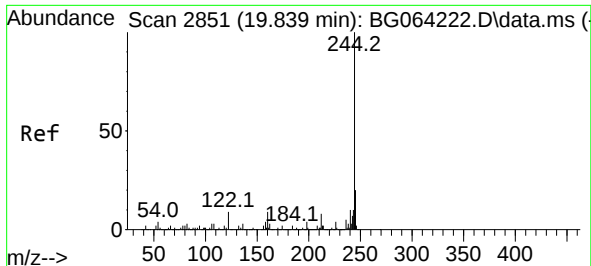
Ion Ratio Lower Upper

202 100

200 22.6 16.9 25.3

203 18.8 13.8 20.8

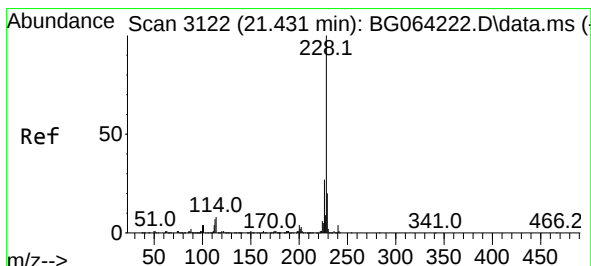
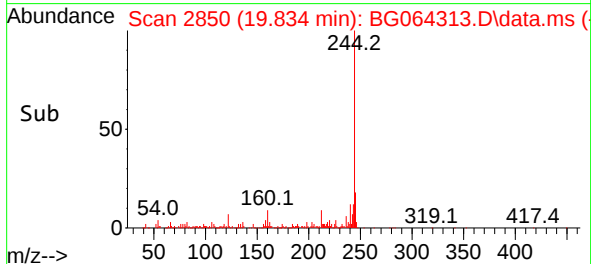
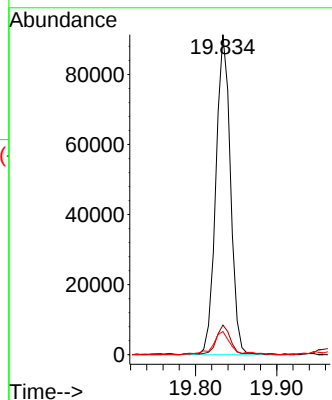
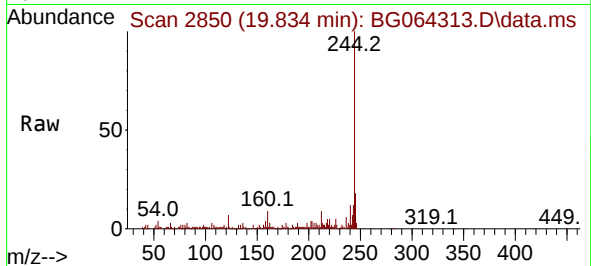




#79
 Terphenyl-d14
 Concen: 11.202 ng
 RT: 19.834 min Scan# 21
 Delta R.T. -0.011 min
 Lab File: BG064313.D
 Acq: 8 Sep 2025 19:03

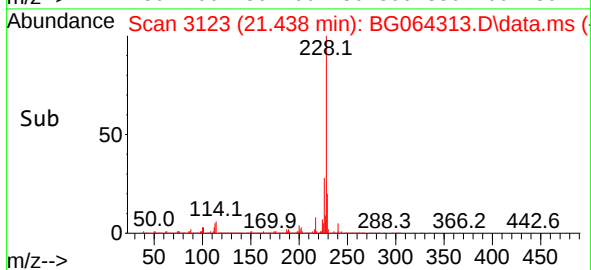
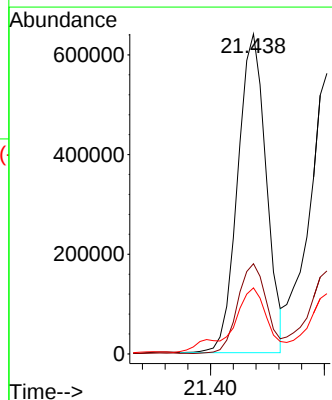
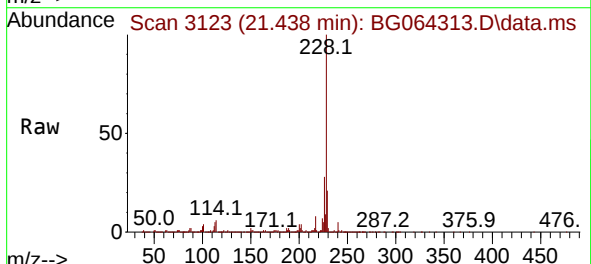
Instrument :
 BNA_G
 ClientSampleId :
 PL-01-09052025

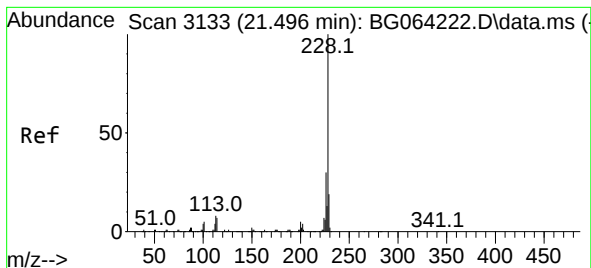
Tgt Ion:244 Resp: 114094
 Ion Ratio Lower Upper
 244 100
 212 9.2 6.6 10.0
 122 7.3 7.0 10.6



#81
 Benzo(a)anthracene
 Concen: 81.779 ng
 RT: 21.438 min Scan# 3123
 Delta R.T. 0.000 min
 Lab File: BG064313.D
 Acq: 8 Sep 2025 19:03

Tgt Ion:228 Resp: 1111785
 Ion Ratio Lower Upper
 228 100
 226 28.2 21.7 32.5
 229 20.6 15.9 23.9





#83

Chrysene

Concen: 72.335 ng

RT: 21.502 min Scan# 3133

Delta R.T. 0.000 min

Lab File: BG064313.D

Acq: 8 Sep 2025 19:03

Instrument :

BNA_G

ClientSampleId :

PL-01-09052025

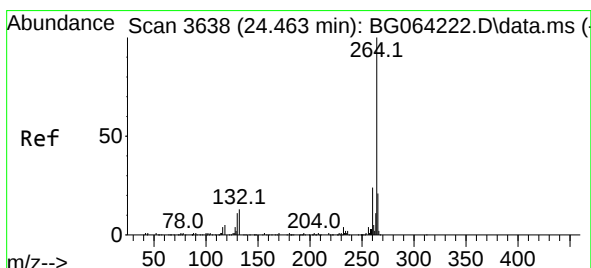
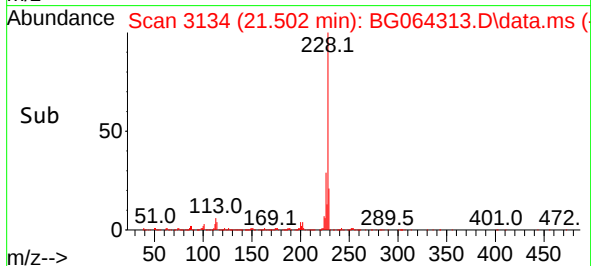
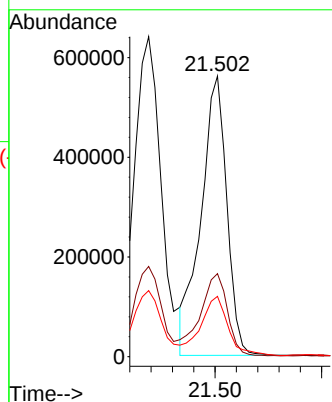
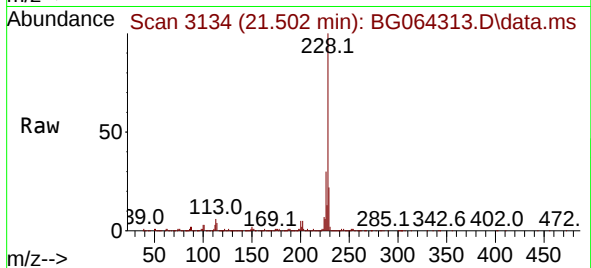
Tgt Ion:228 Resp: 944095

Ion Ratio Lower Upper

228 100

226 29.6 24.2 36.2

229 21.5 15.4 23.2



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.469 min Scan# 3639

Delta R.T. 0.006 min

Lab File: BG064313.D

Acq: 8 Sep 2025 19:03

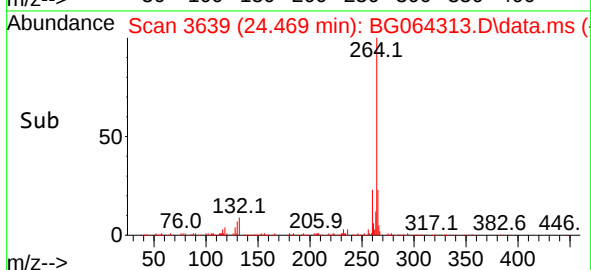
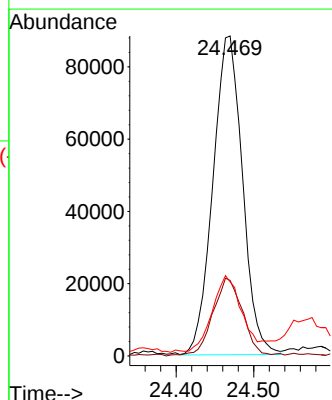
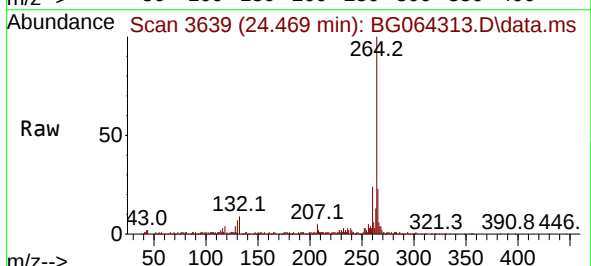
Tgt Ion:264 Resp: 234153

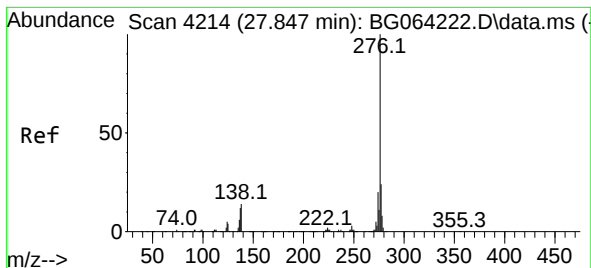
Ion Ratio Lower Upper

264 100

260 23.6 18.9 28.3

265 23.2 16.7 25.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 33.714 ng

RT: 27.865 min Scan# 41

Delta R.T. -0.006 min

Lab File: BG064313.D

Acq: 8 Sep 2025 19:03

Instrument :

BNA_G

ClientSampleId :

PL-01-09052025

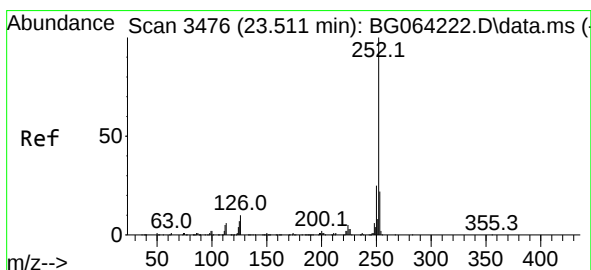
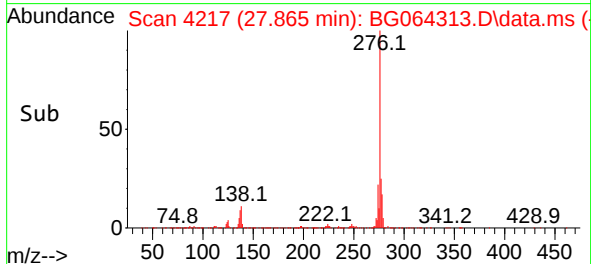
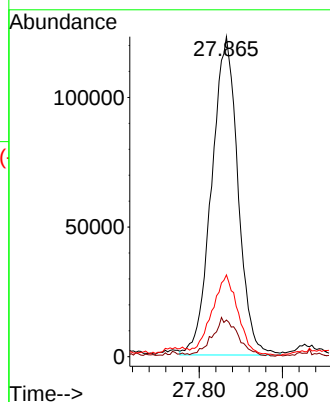
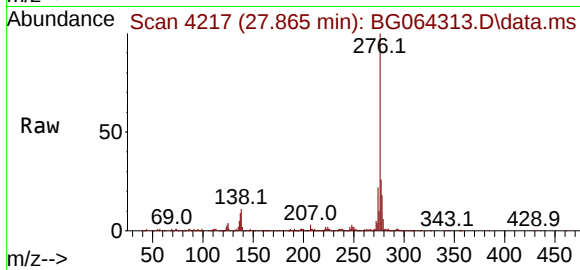
Tgt Ion:276 Resp: 539107

Ion Ratio Lower Upper

276 100

138 11.3 7.4 11.0#

277 25.2 20.5 30.7



#88

Benzo(b)fluoranthene

Concen: 88.723 ng

RT: 23.529 min Scan# 3479

Delta R.T. 0.012 min

Lab File: BG064313.D

Acq: 8 Sep 2025 19:03

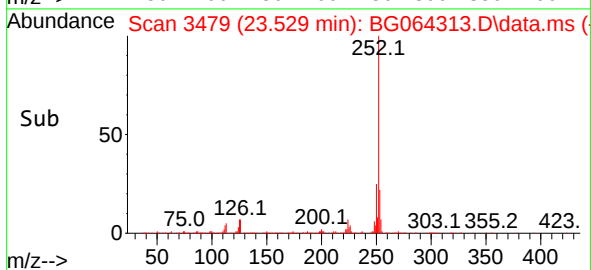
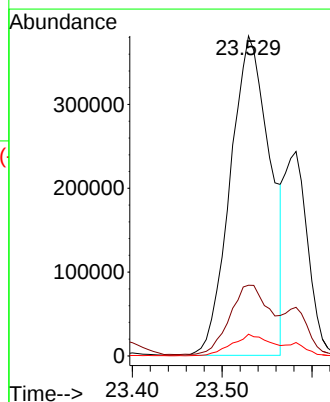
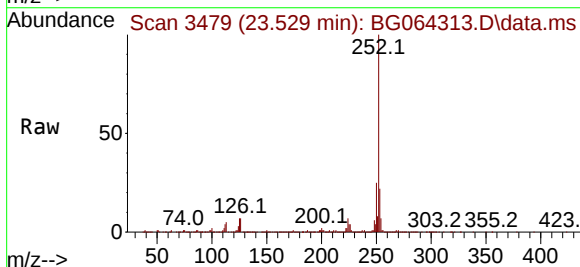
Tgt Ion:252 Resp: 1172504

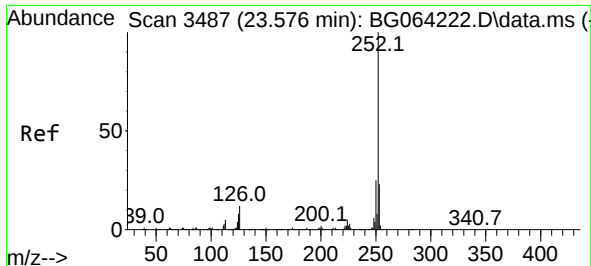
Ion Ratio Lower Upper

252 100

253 22.1 17.5 26.3

125 6.8 5.9 8.9

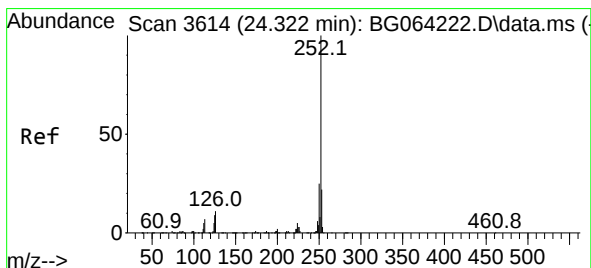
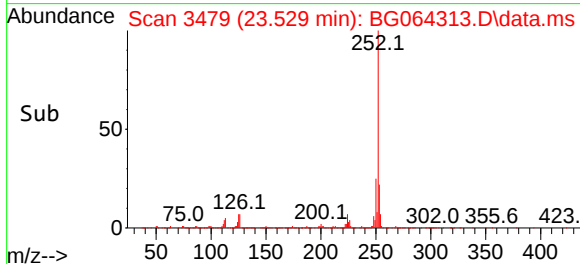
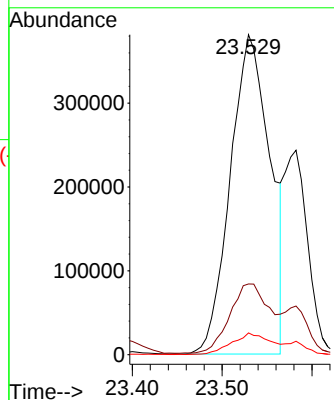
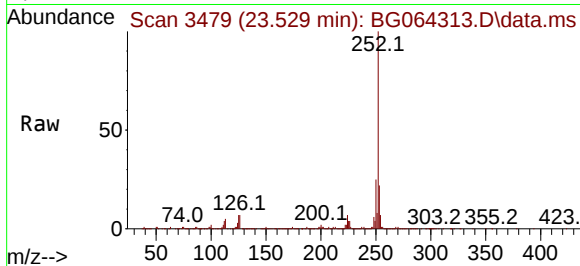




#89
Benzo(k)fluoranthene
Concen: 87.088 ng
RT: 23.529 min Scan# 34
Delta R.T. -0.058 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

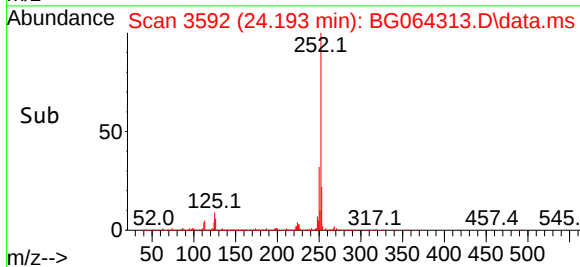
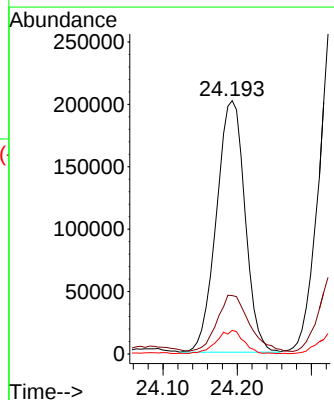
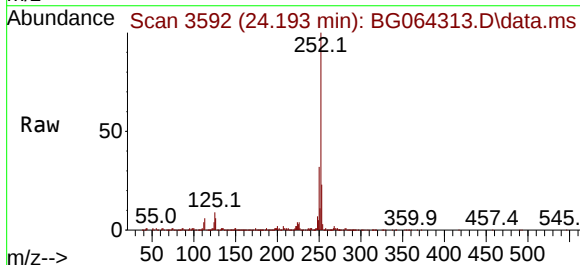
Instrument :
BNA_G
ClientSampleId :
PL-01-09052025

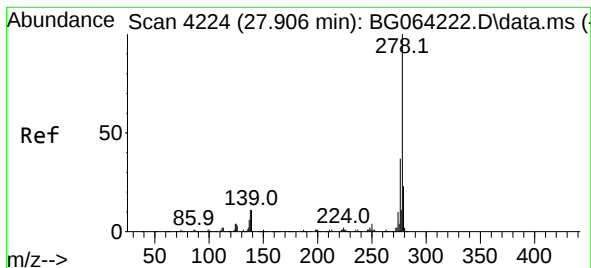
Tgt Ion:252 Resp: 1172504
Ion Ratio Lower Upper
252 100
253 22.1 18.2 27.4
125 6.8 7.0 10.4#



#90
Benzo(a)pyrene
Concen: 43.823 ng
RT: 24.193 min Scan# 3592
Delta R.T. -0.135 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

Tgt Ion:252 Resp: 538726
Ion Ratio Lower Upper
252 100
253 23.1 17.4 26.2
125 9.3 7.0 10.6





#91

Dibenzo(a,h)anthracene

Concen: 4.544 ng

RT: 28.053 min Scan# 41

Delta R.T. 0.130 min

Lab File: BG064313.D

Acq: 8 Sep 2025 19:03

Instrument :

BNA_G

ClientSampleId :

PL-01-09052025

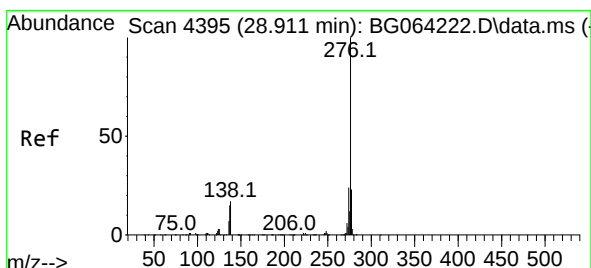
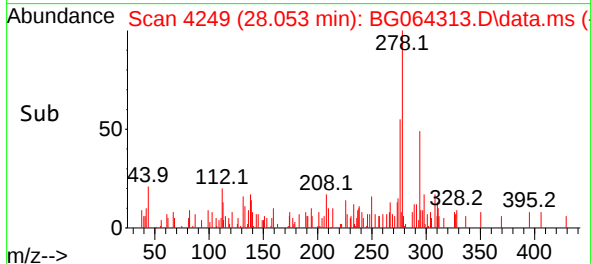
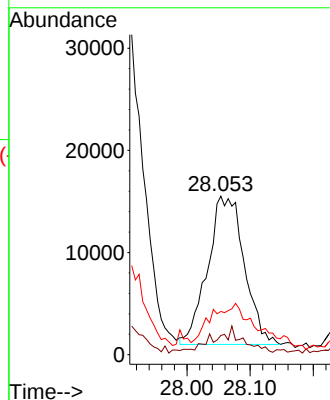
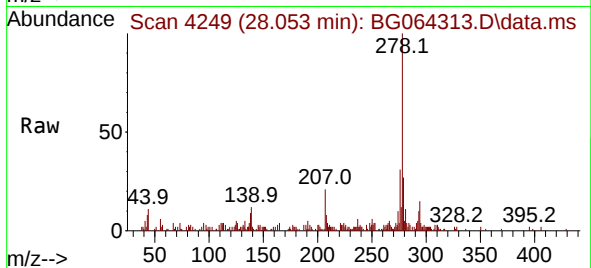
Tgt Ion:278 Resp: 58338

Ion Ratio Lower Upper

278 100

139 12.1 9.0 13.4

279 27.2 18.8 28.2



#92

Benzo(g,h,i)perylene

Concen: 38.119 ng

RT: 28.923 min Scan# 4397

Delta R.T. -0.011 min

Lab File: BG064313.D

Acq: 8 Sep 2025 19:03

Tgt Ion:276 Resp: 476231

Ion Ratio Lower Upper

276 100

277 23.8 18.2 27.4

138 11.3 13.3 19.9#

