

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG102825\
 Data File : BG064608.D
 Acq On : 28 Oct 2025 19:16
 Operator : RC/JU
 Sample : Q3452-01
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 JB-1

Quant Time: Nov 04 05:54:06 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG102425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 03 18:16:26 2025
 Response via : Initial Calibration

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

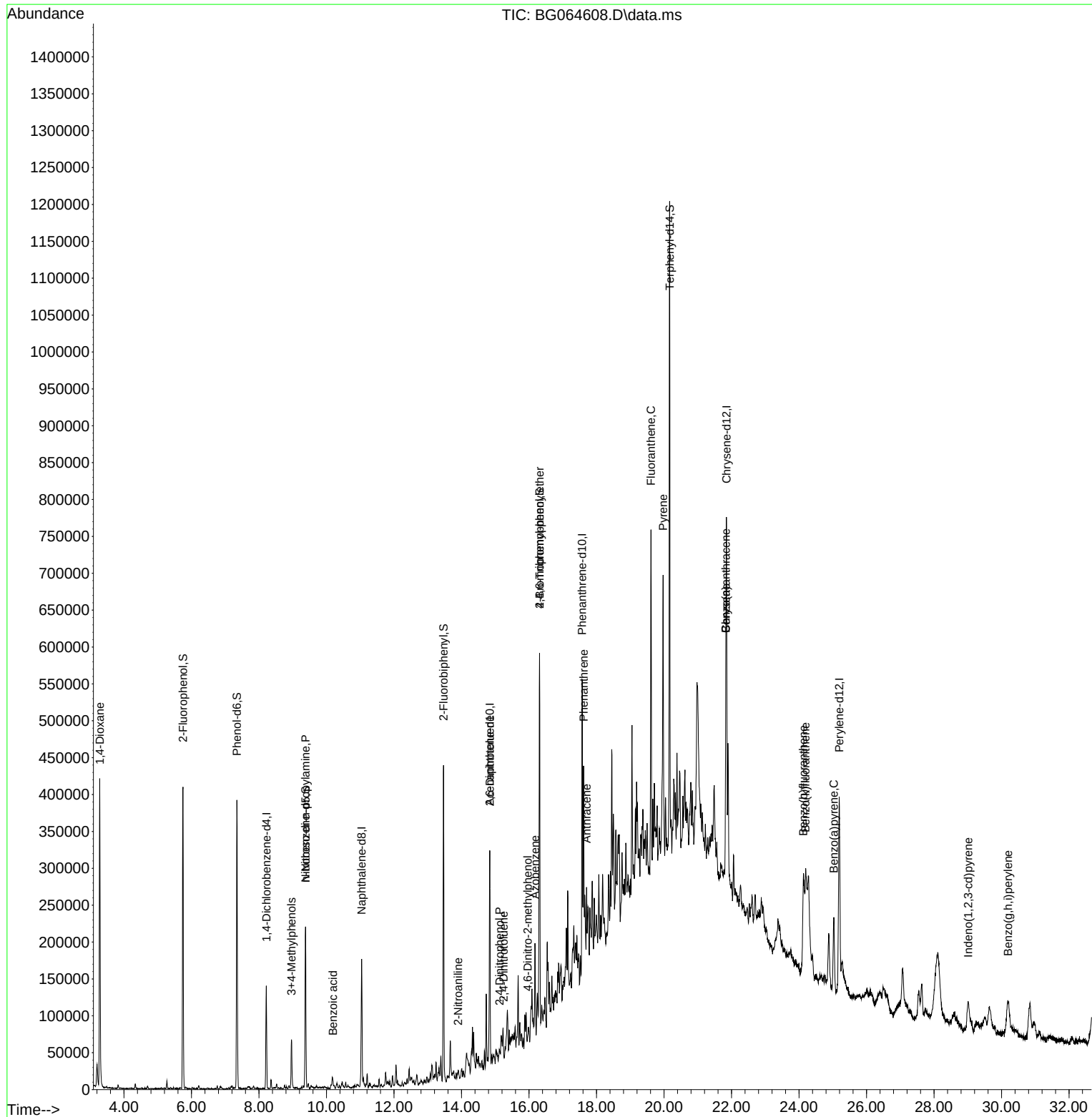
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.216	152	37126	20.000	ng	0.00
21) Naphthalene-d8	11.042	136	135951	20.000	ng	0.00
39) Acenaphthene-d10	14.837	164	101383	20.000	ng	0.00
64) Phenanthrene-d10	17.575	188	230227	20.000	ng	0.00
76) Chrysene-d12	21.853	240	273350	20.000	ng	0.00
86) Perylene-d12	25.190	264	302106	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.748	112	157381	71.153	ng	0.00
7) Phenol-d6	7.346	99	198726	65.475	ng	0.00
23) Nitrobenzene-d5	9.379	82	117049	51.712	ng	0.00
42) 2,4,6-Tribromophenol	16.312	330	100142	68.438	ng	0.00
45) 2-Fluorobiphenyl	13.468	172	222540	33.271	ng	0.00
79) Terphenyl-d14	20.166	244	450496	31.102	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.286	88	3331	3.402	ng	# 1
19) n-Nitroso-di-n-propyla...	9.379	70	15739	7.503	ng	# 69
20) 3+4-Methylphenols	8.962	107	28751	9.174	ng	# 93
32) Benzoic acid	10.190	122	2870	6.515	ng	# 10
48) 2-Nitroaniline	13.903	65	463	3.461	ng	# 10
51) 2,6-Dinitrotoluene	14.837	165	13921	13.345	ng	# 18
54) 2,4-Dinitrophenol	15.125	184	130	5.726	ng	# 37
57) 2,4-Dinitrotoluene	15.243	165	495	3.285	ng	# 81
63) Azobenzene	16.177	77	27411	3.772	ng	# 1
65) 4,6-Dinitro-2-methylph...	15.960	198	64	5.483	ng	# 1
67) 4-Bromophenyl-phenylether	16.312	248	6558	2.404	ng	# 1
71) Phenanthrene	17.616	178	170620	13.552	ng	98
72) Anthracene	17.705	178	53926	4.211	ng	97
75) Fluoranthene	19.614	202	274726	17.418	ng	98
78) Pyrene	19.973	202	258489	14.474	ng	99
81) Benzo(a)anthracene	21.829	228	150545	8.306	ng	98
83) Chrysene	21.829	228	150545	8.729	ng	95
87) Indeno(1,2,3-cd)pyrene	29.015	276	78363	3.526	ng	# 91
88) Benzo(b)fluoranthene	24.127	252	161184	8.701	ng	# 95
89) Benzo(k)fluoranthene	24.191	252	51413	2.773	ng	# 91
90) Benzo(a)pyrene	25.031	252	119841	7.038	ng	95
92) Benzo(g,h,i)perylene	30.190	276	75433	4.373	ng	95

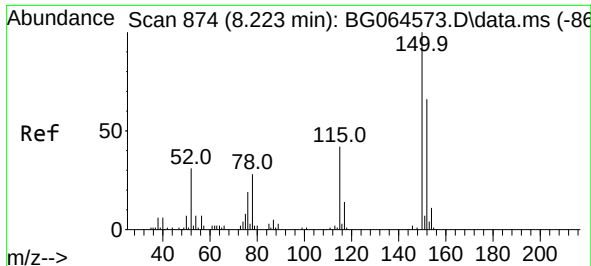
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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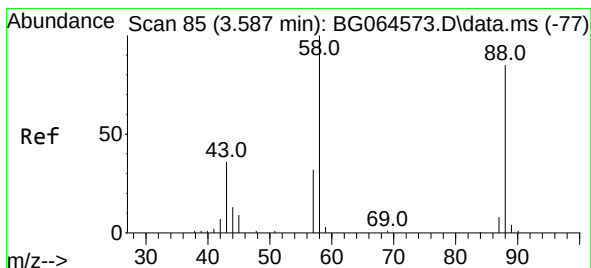
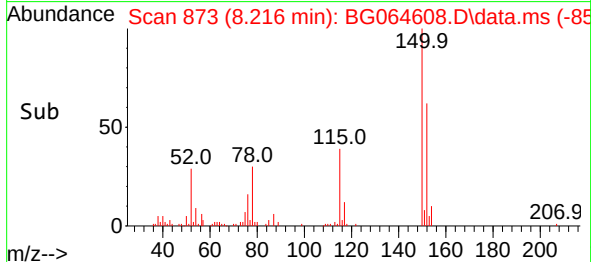
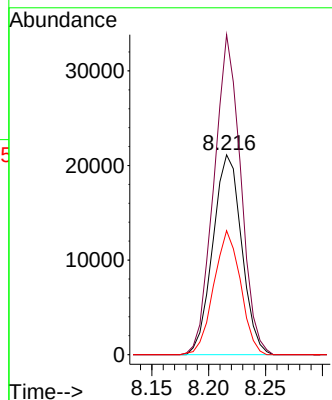
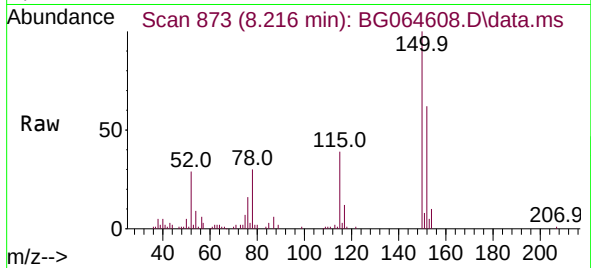




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 8.216 min Scan# 81
 Delta R.T. -0.007 min
 Lab File: BG064608.D
 Acq: 28 Oct 2025 19:16

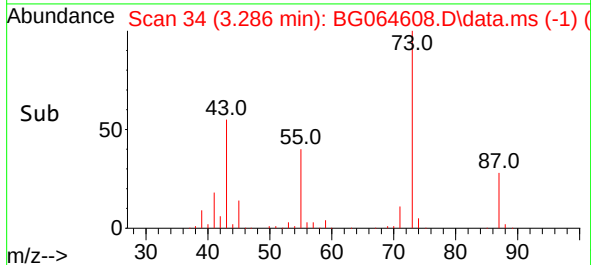
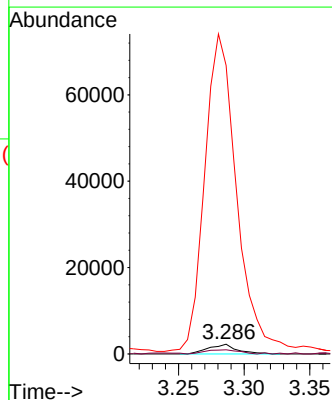
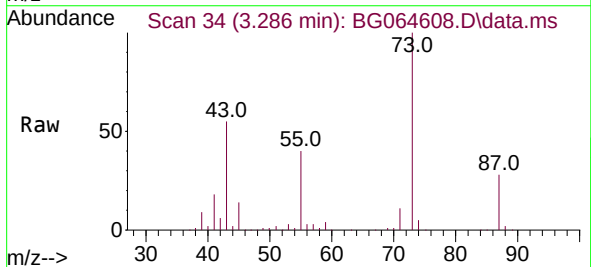
Instrument :
 BNA_G
 ClientSampleId :
 JB-1

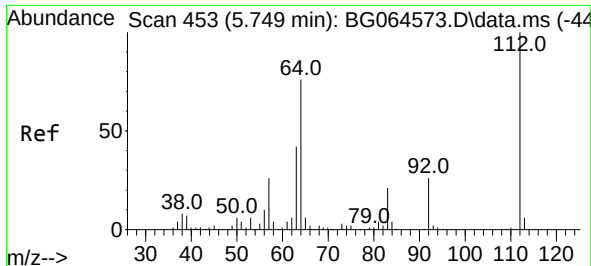
Tgt Ion:152 Resp: 37126
 Ion Ratio Lower Upper
 152 100
 150 160.2 122.2 183.4
 115 62.0 50.8 76.2



#2
 1,4-Dioxane
 Concen: 3.402 ng
 RT: 3.286 min Scan# 34
 Delta R.T. -0.301 min
 Lab File: BG064608.D
 Acq: 28 Oct 2025 19:16

Tgt Ion: 88 Resp: 3331
 Ion Ratio Lower Upper
 88 100
 58 50.0 92.4 138.6#
 43 3771.0 33.0 49.6#

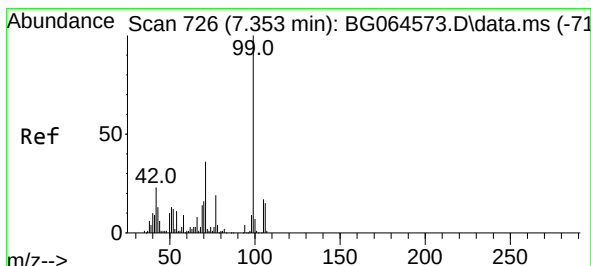
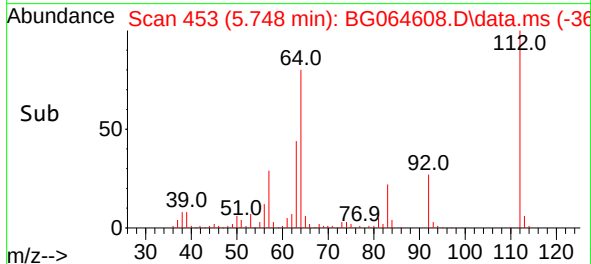
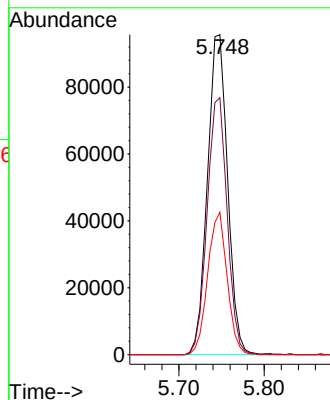
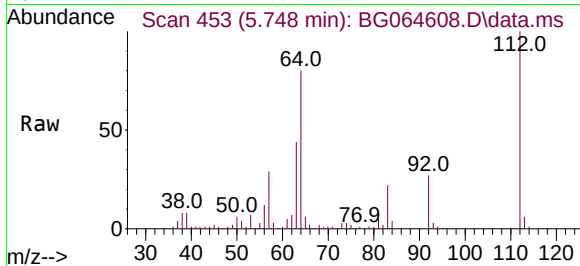




#5
2-Fluorophenol
Concen: 71.153 ng
RT: 5.748 min Scan# 41
Delta R.T. -0.001 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

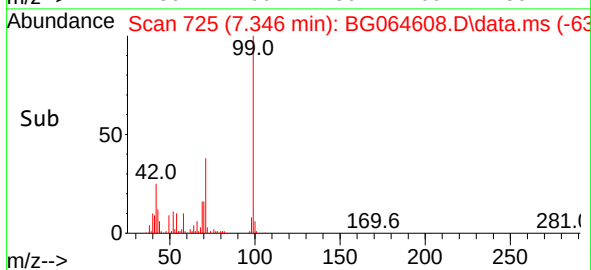
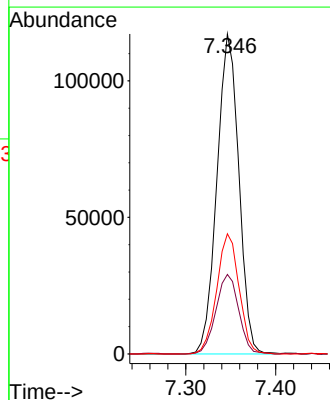
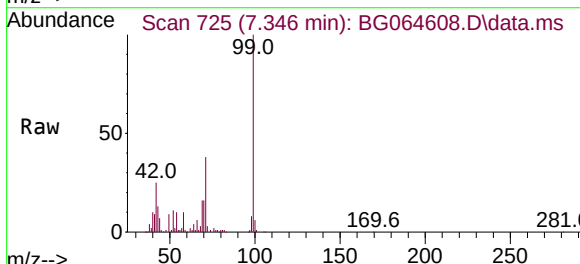
Instrument :
BNA_G
ClientSampleId :
JB-1

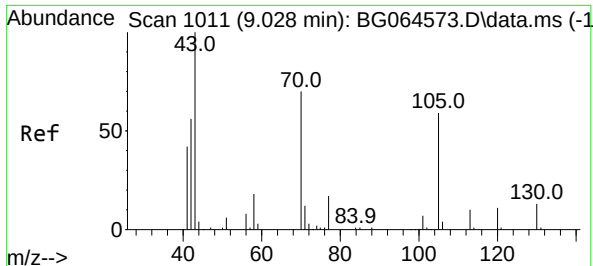
Tgt Ion:112 Resp: 157381
Ion Ratio Lower Upper
112 100
64 80.3 60.7 91.1
63 44.5 33.4 50.0



#7
Phenol-d6
Concen: 65.475 ng
RT: 7.346 min Scan# 725
Delta R.T. -0.007 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

Tgt Ion: 99 Resp: 198726
Ion Ratio Lower Upper
99 100
42 24.8 18.3 27.5
71 37.5 28.6 43.0

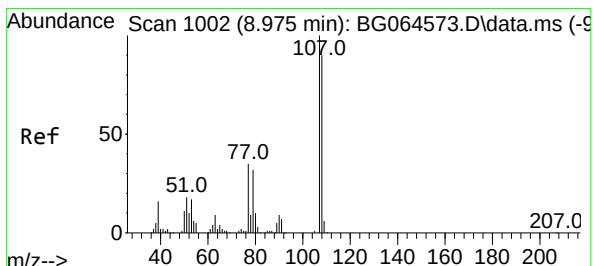
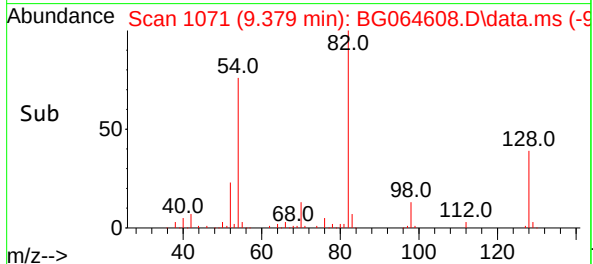
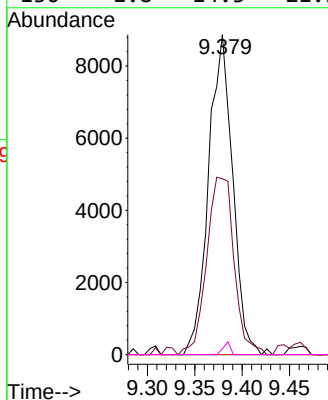
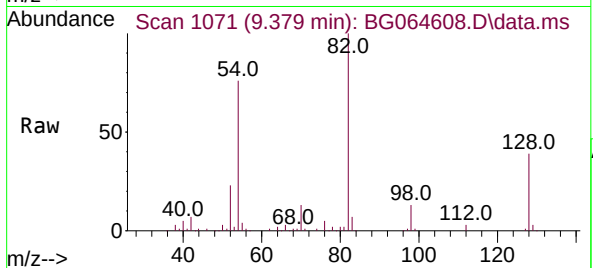




#19
n-Nitroso-di-n-propylamine
Concen: 7.503 ng
RT: 9.379 min Scan# 1011
Delta R.T. 0.351 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

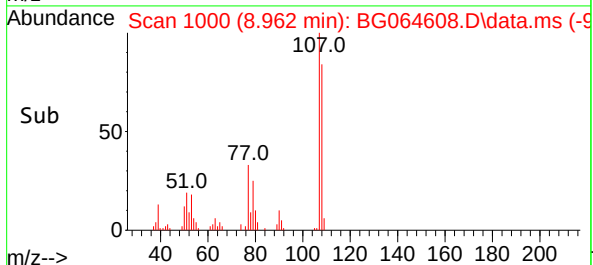
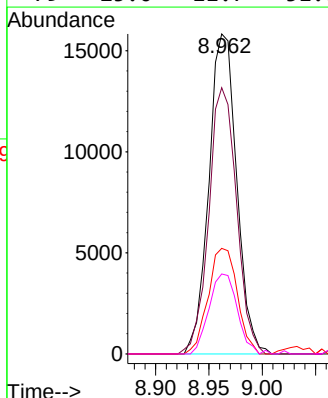
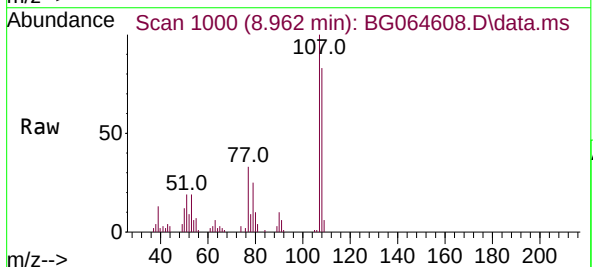
Instrument :
BNA_G
ClientSampleId :
JB-1

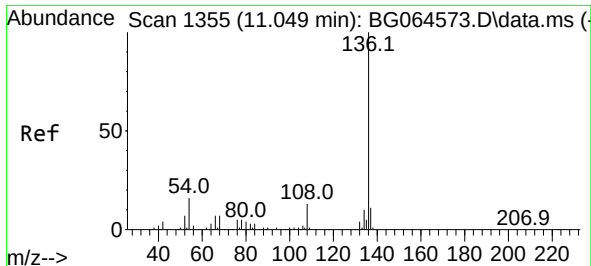
Tgt Ion:	70	Resp:	15739
Ion	Ratio	Lower	Upper
70	100		
42	55.0	65.2	97.8#
101	0.0	7.9	11.9#
130	1.8	14.3	21.5#



#20
3+4-Methylphenols
Concen: 9.174 ng
RT: 8.962 min Scan# 1000
Delta R.T. -0.013 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

Tgt Ion:	107	Resp:	28751
Ion	Ratio	Lower	Upper
107	100		
108	83.2	70.3	110.3
77	33.0	14.6	54.6
79	25.0	11.7	51.7

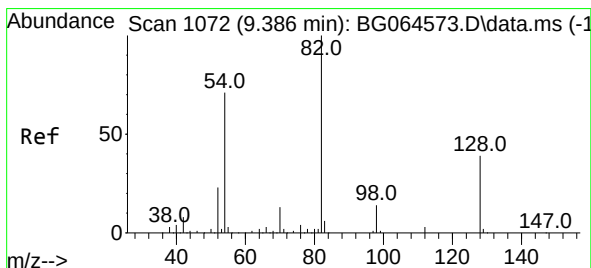
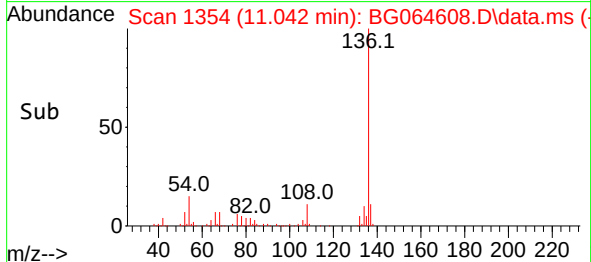
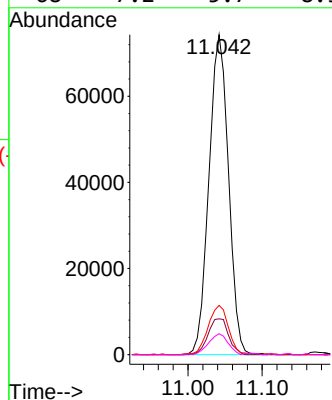
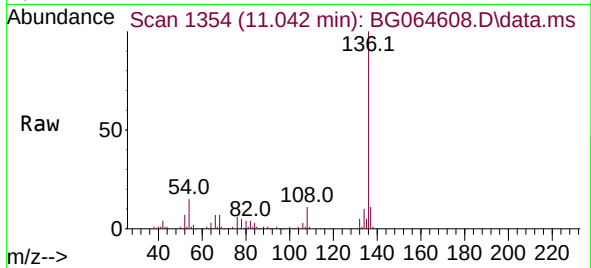




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.042 min Scan# 1354
Delta R.T. -0.007 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

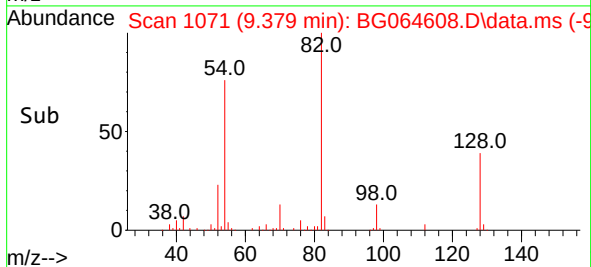
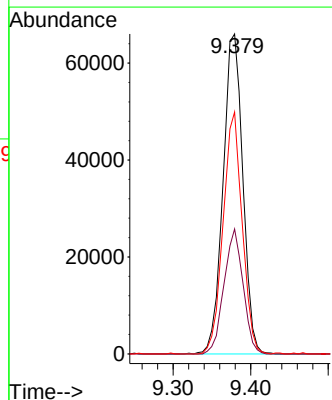
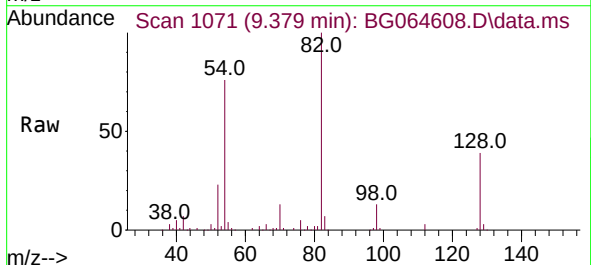
Instrument :
BNA_G
ClientSampleId :
JB-1

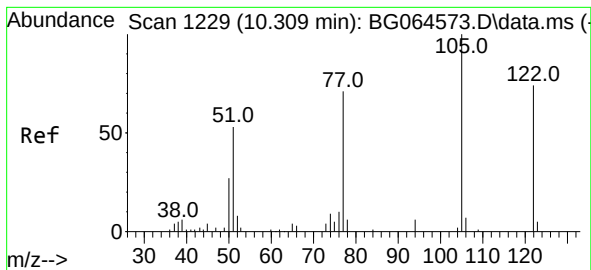
Tgt Ion:	136	Resp:	135951
Ion Ratio	Lower	Upper	
136	100		
137	11.2	9.2	13.8
54	15.4	12.6	19.0
68	7.2	5.7	8.5



#23
Nitrobenzene-d5
Concen: 51.712 ng
RT: 9.379 min Scan# 1071
Delta R.T. -0.007 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

Tgt Ion:	82	Resp:	117049
Ion Ratio	Lower	Upper	
82	100		
128	39.0	31.3	46.9
54	75.6	56.6	84.8

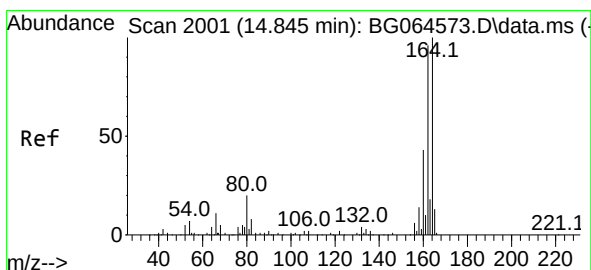
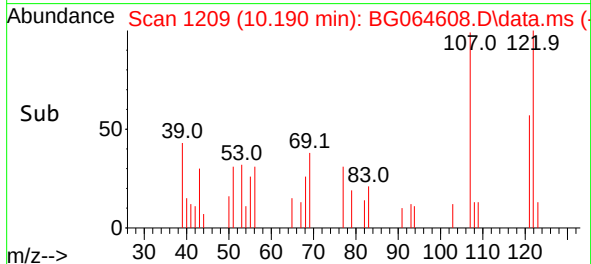
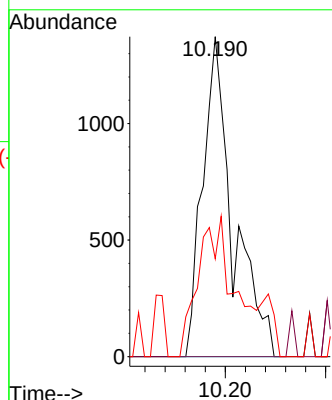
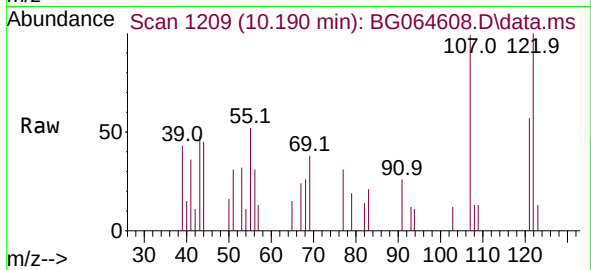




#32
Benzoic acid
Concen: 6.515 ng
RT: 10.190 min Scan# 11
Delta R.T. -0.119 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

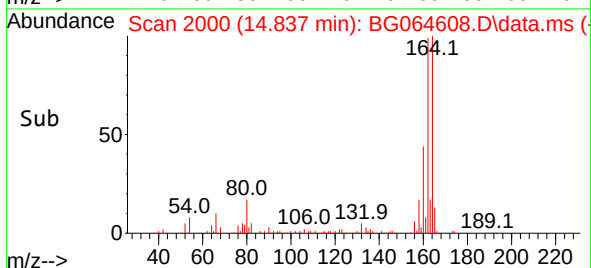
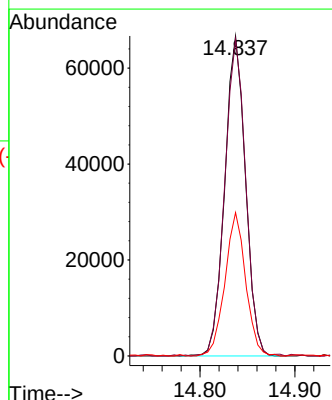
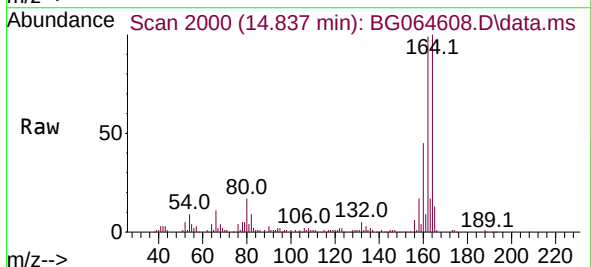
Instrument :
BNA_G
ClientSampleId :
JB-1

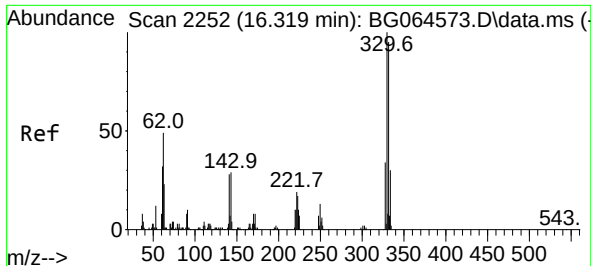
Tgt Ion:122 Resp: 2870
Ion Ratio Lower Upper
122 100
105 0.0 104.2 144.2#
77 30.6 70.2 110.2#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.837 min Scan# 2000
Delta R.T. -0.007 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

Tgt Ion:164 Resp: 101383
Ion Ratio Lower Upper
164 100
162 99.1 77.0 115.6
160 44.8 34.4 51.6

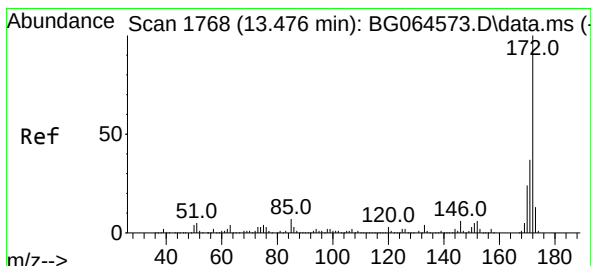
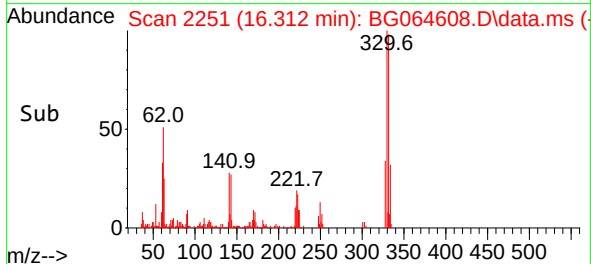
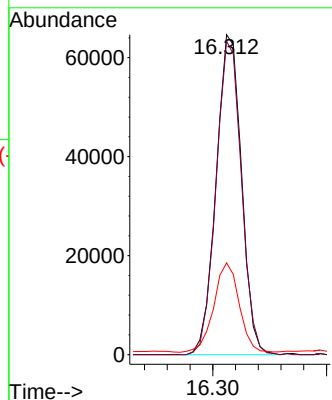
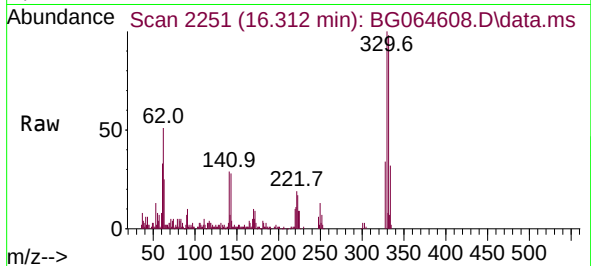




#42
2,4,6-Tribromophenol
Concen: 68.438 ng
RT: 16.312 min Scan# 21
Delta R.T. -0.007 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

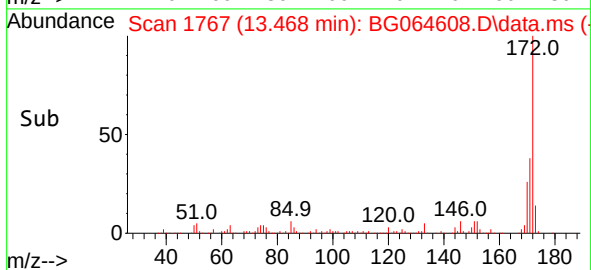
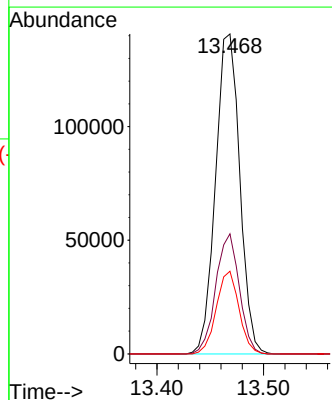
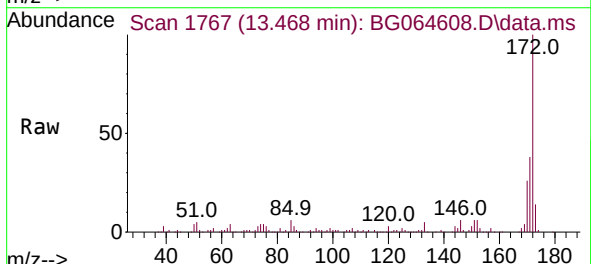
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JB-1

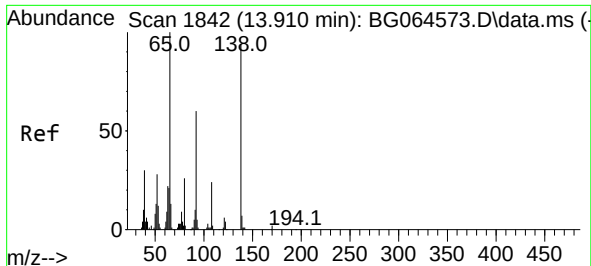
Tgt Ion:330 Resp: 100142
Ion Ratio Lower Upper
330 100
332 97.5 78.0 117.0
141 28.1 21.8 32.6



#45
2-Fluorobiphenyl
Concen: 33.271 ng
RT: 13.468 min Scan# 1767
Delta R.T. -0.007 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

Tgt Ion:172 Resp: 222540
Ion Ratio Lower Upper
172 100
171 37.5 29.4 44.0
170 25.8 19.1 28.7

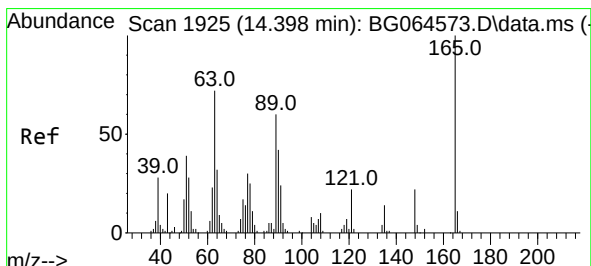
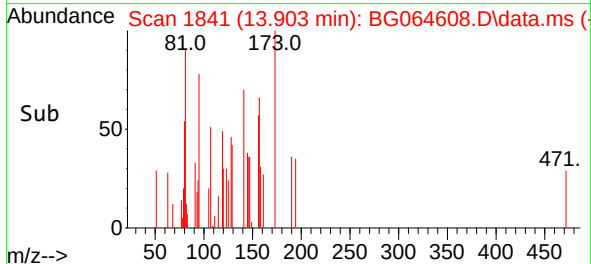
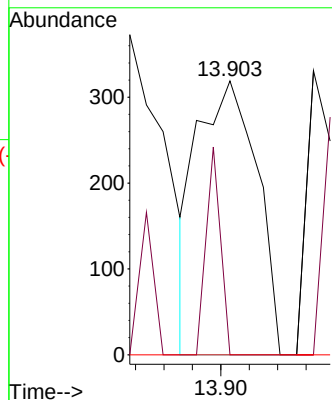
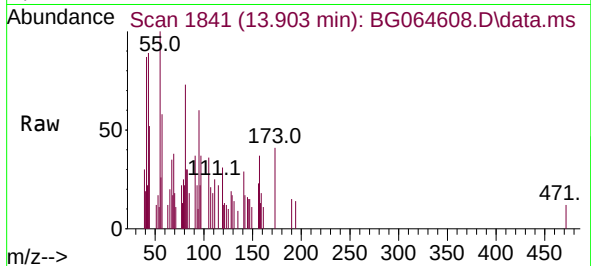




#48
2-Nitroaniline
Concen: 3.461 ng
RT: 13.903 min Scan# 1842
Delta R.T. -0.007 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

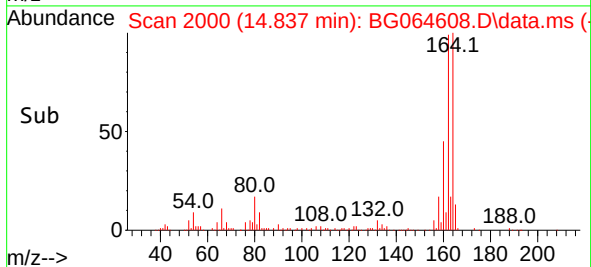
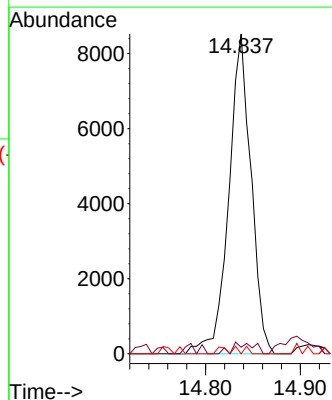
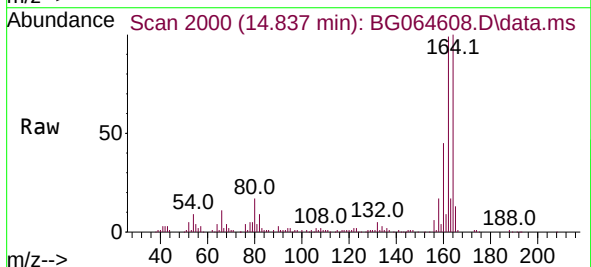
Instrument :
BNA_G
ClientSampleId :
JB-1

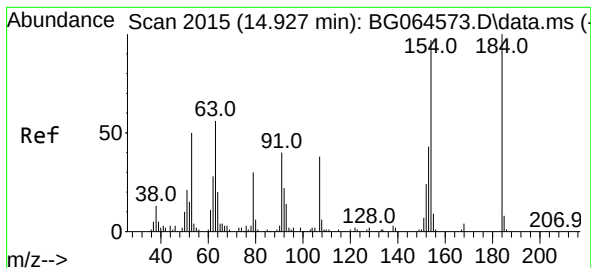
Tgt Ion: 65 Resp: 463
Ion Ratio Lower Upper
65 100
92 0.0 48.3 72.5#
138 0.0 74.9 112.3#



#51
2,6-Dinitrotoluene
Concen: 13.345 ng
RT: 14.837 min Scan# 2000
Delta R.T. 0.439 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

Tgt Ion: 165 Resp: 13921
Ion Ratio Lower Upper
165 100
63 2.1 57.4 86.0#
89 0.0 47.8 71.8#





#54

2,4-Dinitrophenol

Concen: 5.726 ng

RT: 15.125 min Scan# 20

Delta R.T. 0.198 min

Lab File: BG064608.D

Acq: 28 Oct 2025 19:16

Instrument :

BNA_G

ClientSampleId :

JB-1

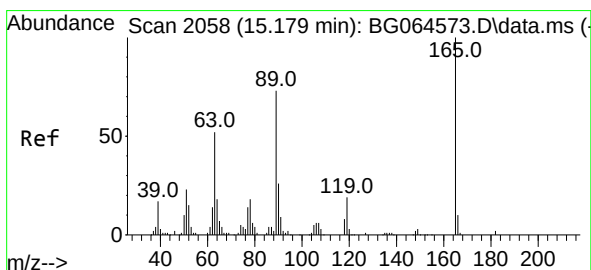
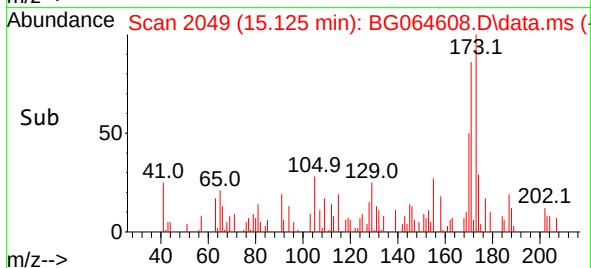
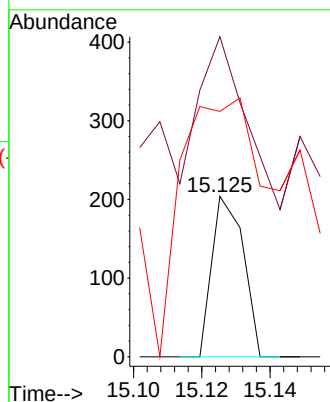
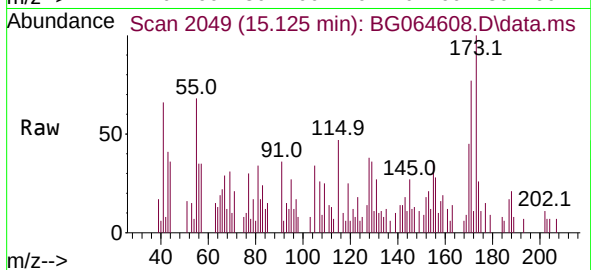
Tgt Ion:184 Resp: 130

Ion Ratio Lower Upper

184 100

63 199.5 56.6 85.0#

154 152.9 158.6 238.0#



#57

2,4-Dinitrotoluene

Concen: 3.285 ng

RT: 15.243 min Scan# 2069

Delta R.T. 0.064 min

Lab File: BG064608.D

Acq: 28 Oct 2025 19:16

Tgt Ion:165 Resp: 495

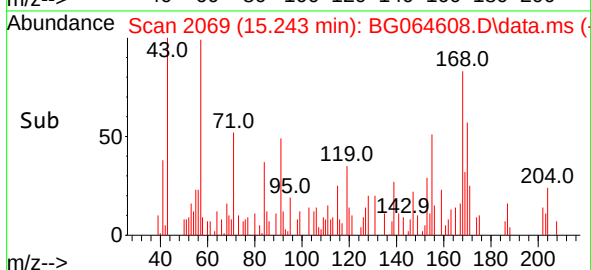
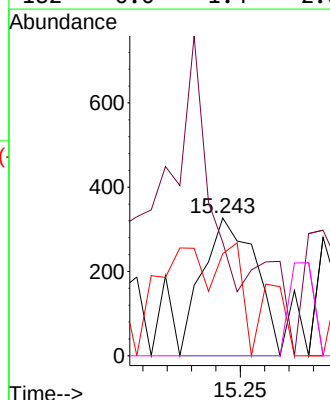
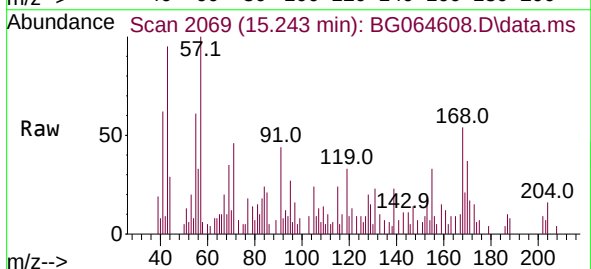
Ion Ratio Lower Upper

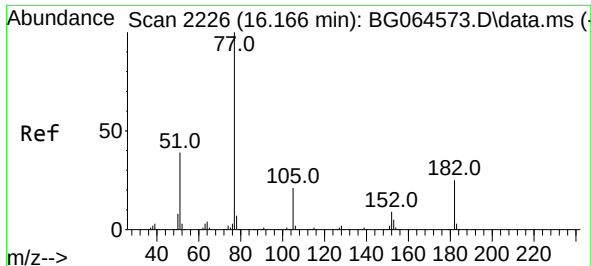
165 100

63 82.3 41.8 62.8#

89 74.0 58.1 87.1

182 0.0 1.4 2.0#

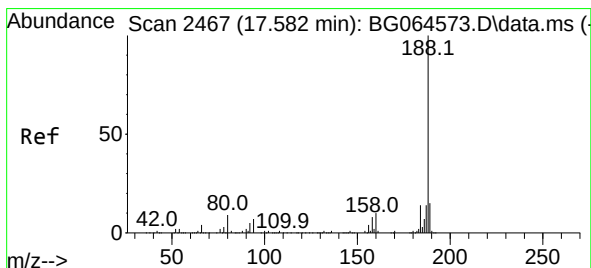
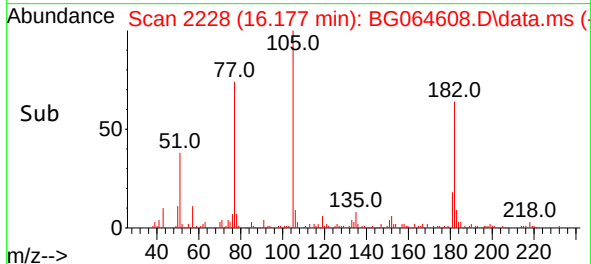
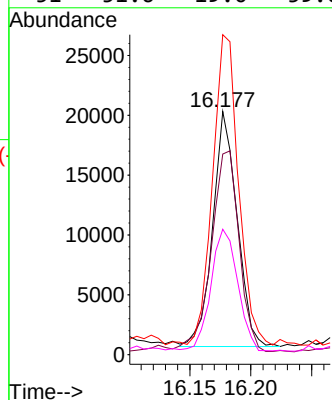
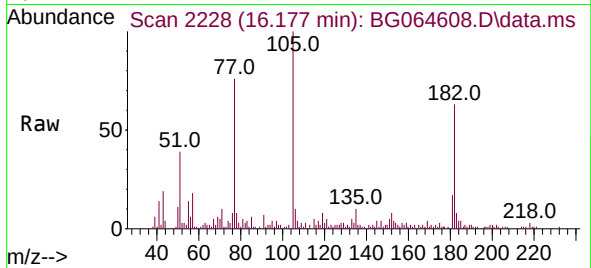




#63
Azobenzene
Concen: 3.772 ng
RT: 16.177 min Scan# 21
Delta R.T. 0.011 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

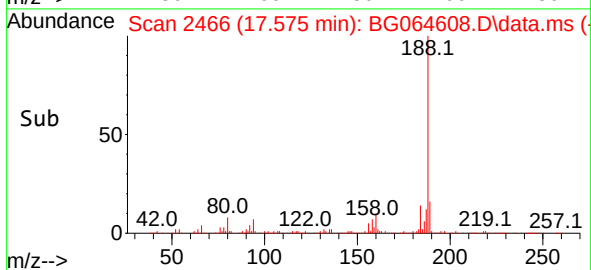
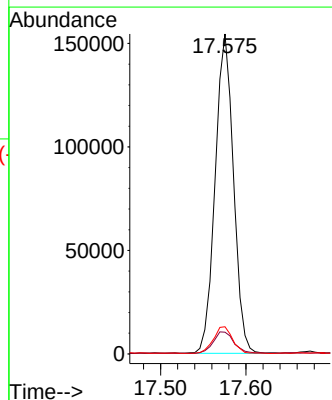
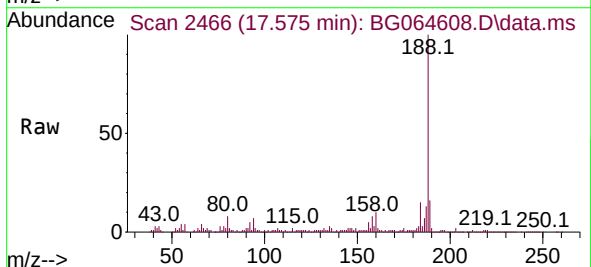
Instrument :
BNA_G
ClientSampleId :
JB-1

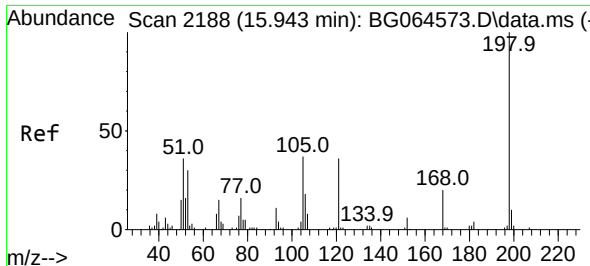
Tgt Ion: 77	Resp: 27411
Ion Ratio	Lower Upper
77 100	
182 82.5	4.9 44.9#
105 131.6	1.3 41.3#
51 51.6	19.0 59.0



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.575 min Scan# 2466
Delta R.T. -0.007 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

Tgt Ion: 188	Resp: 230227
Ion Ratio	Lower Upper
188 100	
94 6.8	5.7 8.5
80 8.5	6.8 10.2

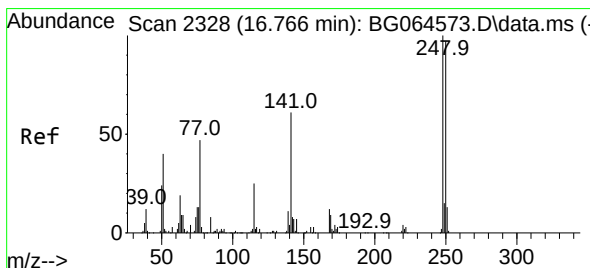
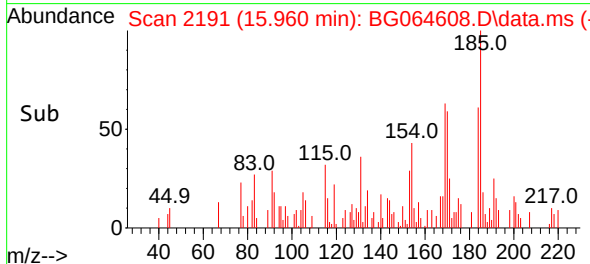
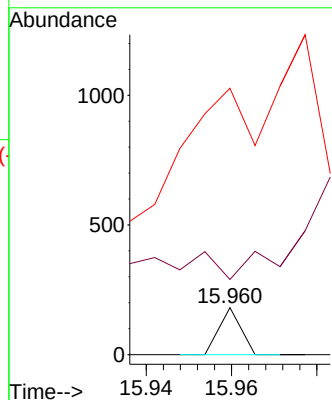
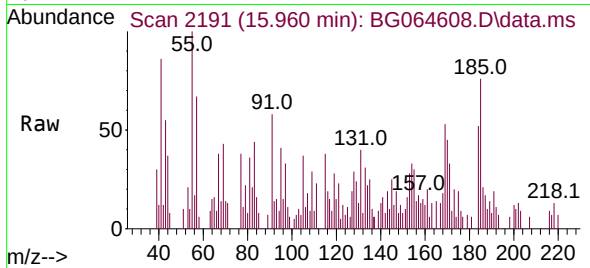




#65
4,6-Dinitro-2-methylphenol
Concen: 5.483 ng
RT: 15.960 min Scan# 2188
Delta R.T. 0.017 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

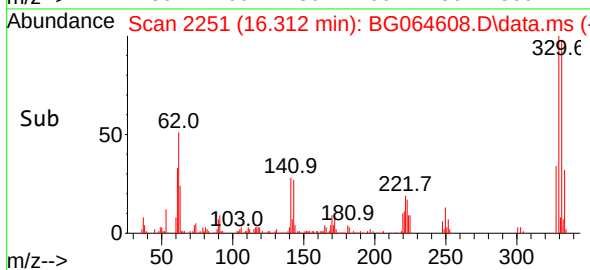
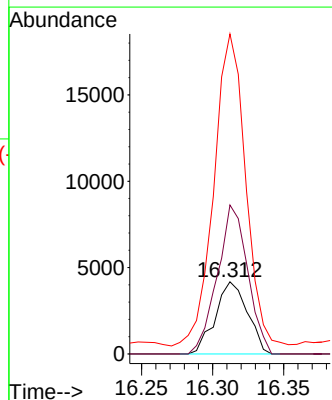
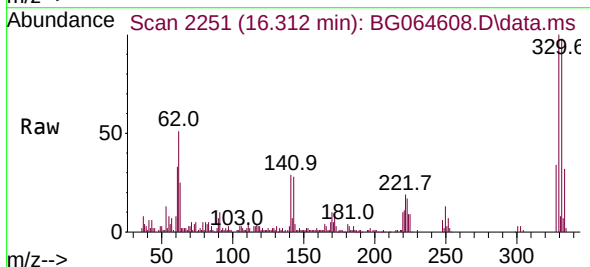
Instrument :
BNA_G
ClientSampleId :
JB-1

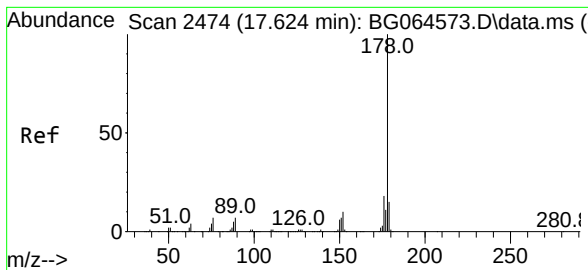
Tgt Ion:198 Resp: 64
Ion Ratio Lower Upper
198 100
51 160.2 24.7 64.7#
105 567.4 18.0 58.0#



#67
4-Bromophenyl-phenylether
Concen: 2.404 ng
RT: 16.312 min Scan# 2251
Delta R.T. -0.454 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

Tgt Ion:248 Resp: 6558
Ion Ratio Lower Upper
248 100
250 258.8 77.7 116.5#
141 444.2 48.6 72.8#





#71

Phenanthrene

Concen: 13.552 ng

RT: 17.616 min Scan# 2473

Delta R.T. -0.007 min

Lab File: BG064608.D

Acq: 28 Oct 2025 19:16

Instrument :

BNA_G

ClientSampleId :

JB-1

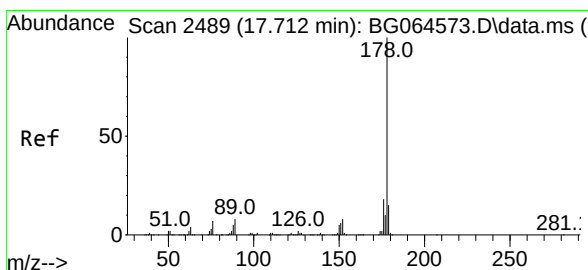
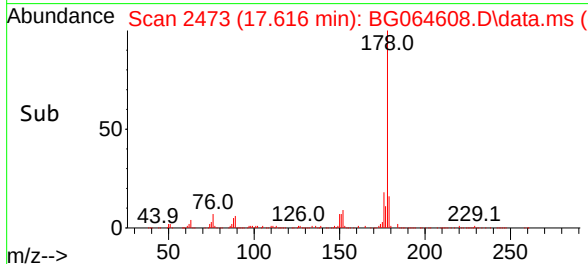
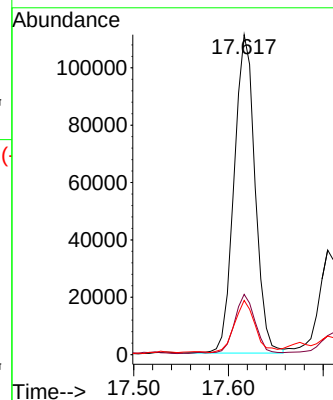
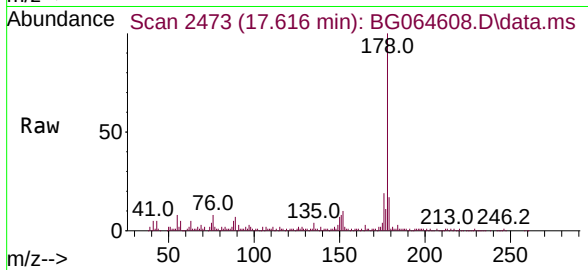
Tgt Ion:178 Resp: 170620

Ion Ratio Lower Upper

178 100

176 18.8 14.7 22.1

179 16.9 12.2 18.4



#72

Anthracene

Concen: 4.211 ng

RT: 17.705 min Scan# 2488

Delta R.T. -0.007 min

Lab File: BG064608.D

Acq: 28 Oct 2025 19:16

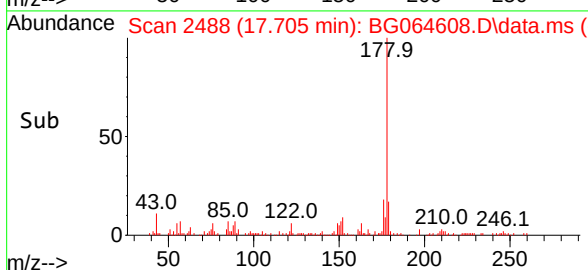
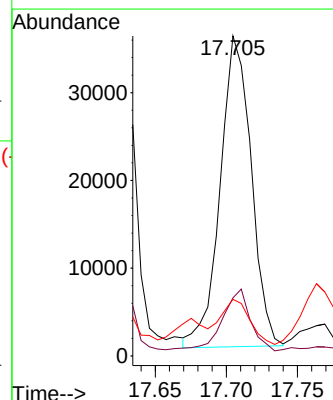
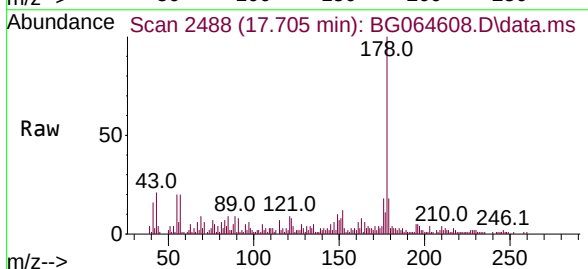
Tgt Ion:178 Resp: 53926

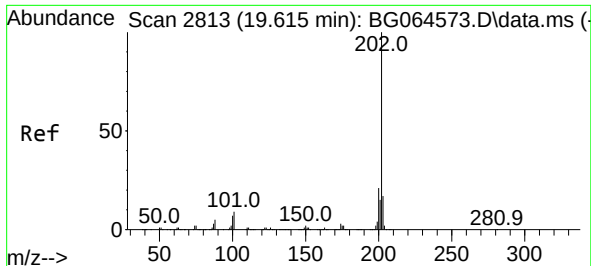
Ion Ratio Lower Upper

178 100

176 18.1 14.4 21.6

179 17.7 12.4 18.6

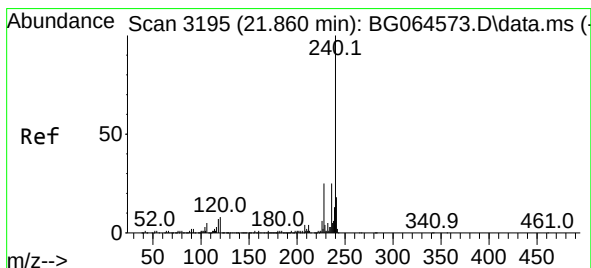
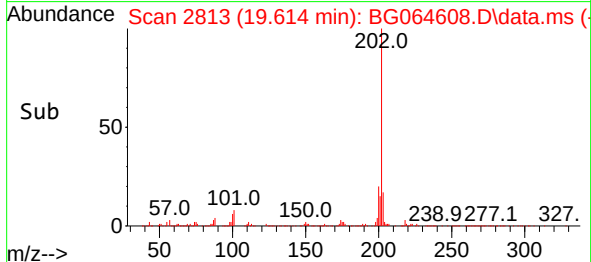
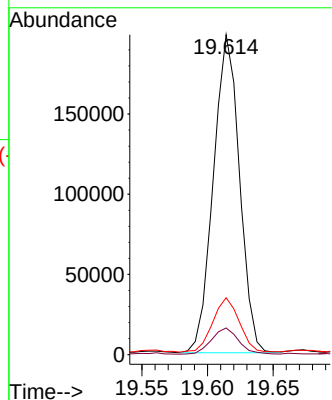
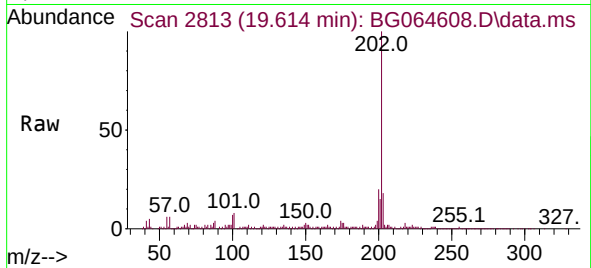




#75
Fluoranthene
Concen: 17.418 ng
RT: 19.614 min Scan# 2813
Delta R.T. -0.001 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

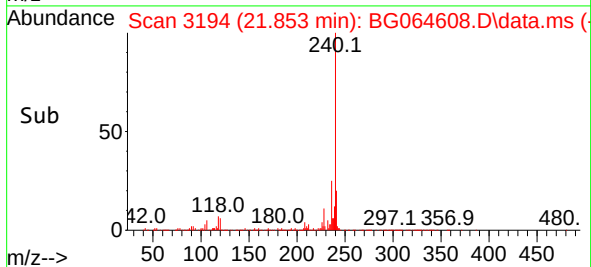
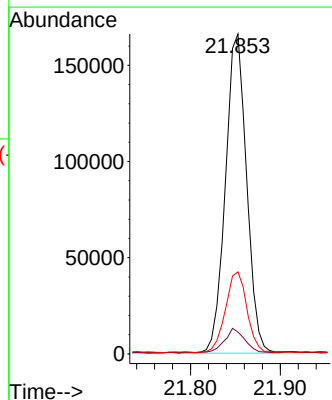
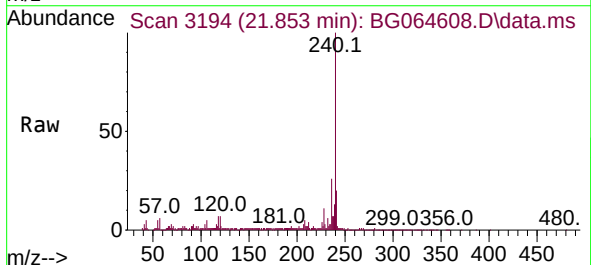
Instrument :
BNA_G
ClientSampleId :
JB-1

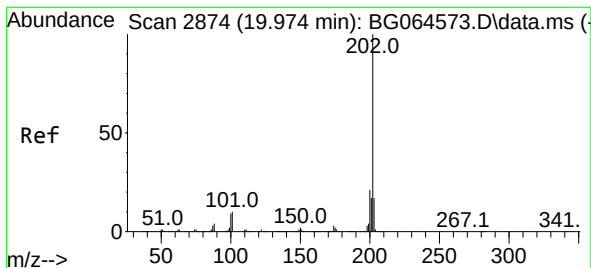
Tgt Ion:202 Resp: 274726
Ion Ratio Lower Upper
202 100
101 8.3 0.0 28.7
203 17.8 0.0 37.0



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.853 min Scan# 3194
Delta R.T. -0.007 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

Tgt Ion:240 Resp: 273350
Ion Ratio Lower Upper
240 100
120 6.8 6.5 9.7
236 25.6 20.2 30.2





#78

Pyrene

Concen: 14.474 ng

RT: 19.973 min Scan# 2874

Delta R.T. -0.001 min

Lab File: BG064608.D

Acq: 28 Oct 2025 19:16

Instrument :

BNA_G

ClientSampleId :

JB-1

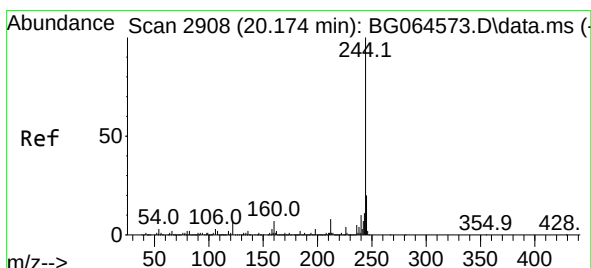
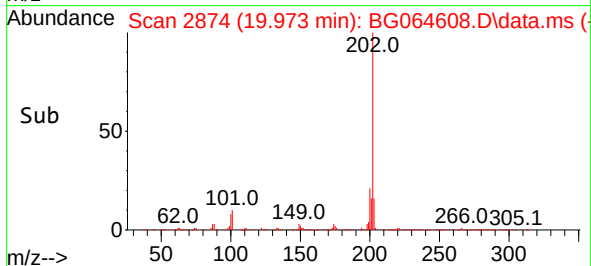
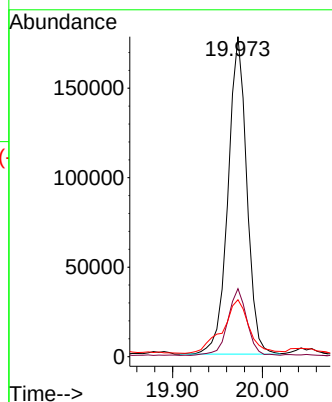
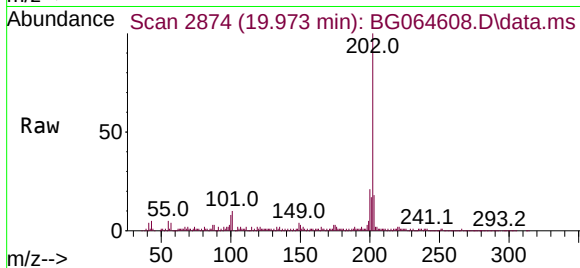
Tgt Ion:202 Resp: 258489

Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.4

203 17.8 13.8 20.6



#79

Terphenyl-d14

Concen: 31.102 ng

RT: 20.166 min Scan# 2907

Delta R.T. -0.007 min

Lab File: BG064608.D

Acq: 28 Oct 2025 19:16

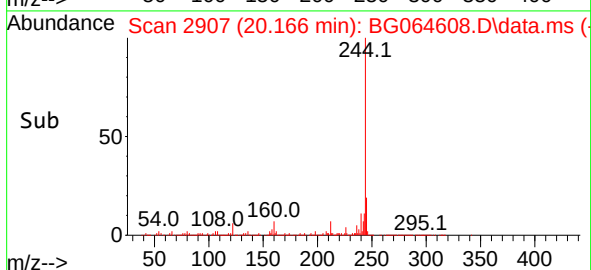
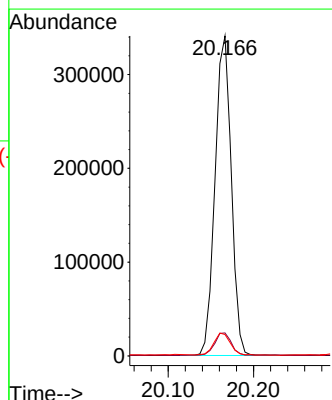
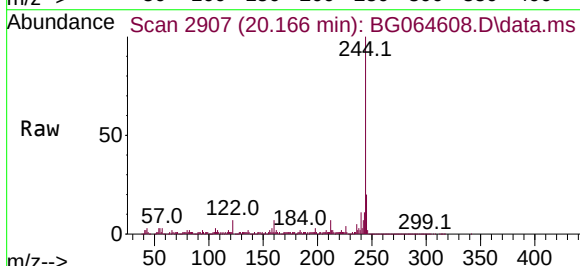
Tgt Ion:244 Resp: 450496

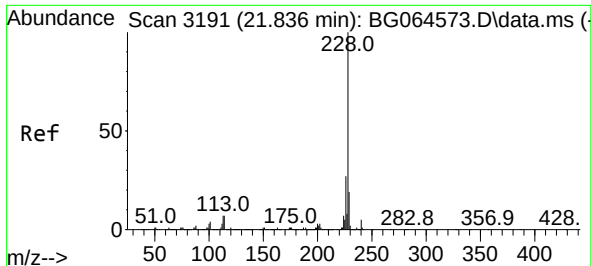
Ion Ratio Lower Upper

244 100

212 7.2 6.1 9.1

122 6.7 5.6 8.4

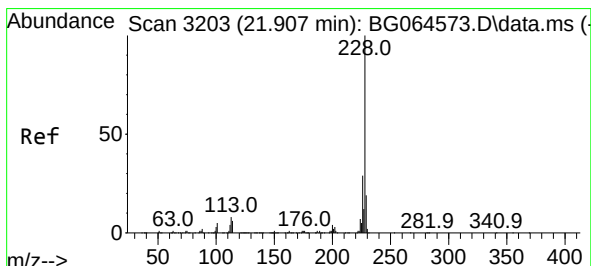
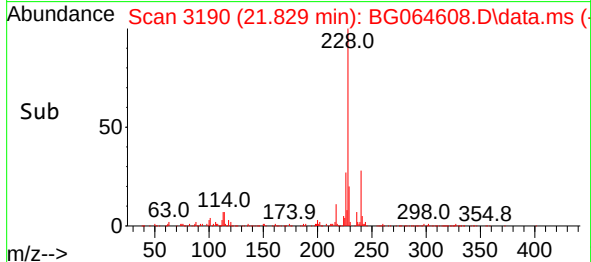
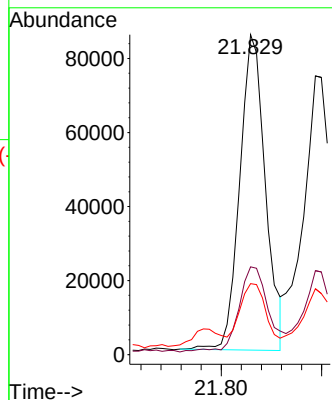
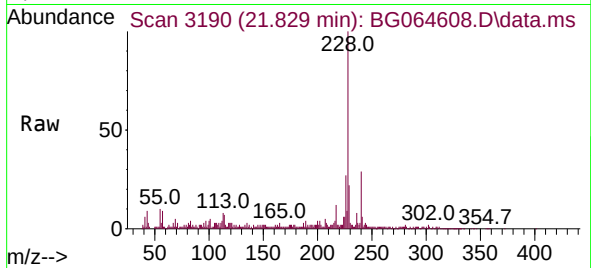




#81
Benzo(a)anthracene
Concen: 8.306 ng
RT: 21.829 min Scan# 3190
Delta R.T. -0.007 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

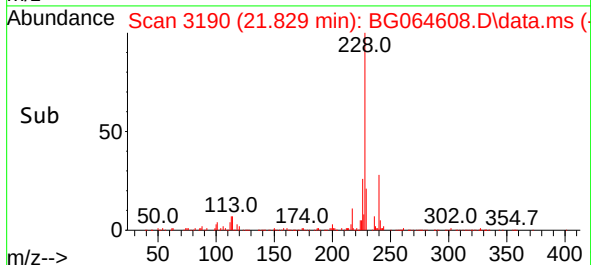
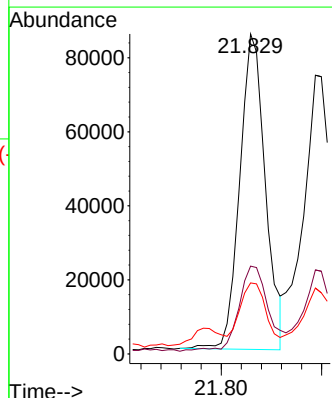
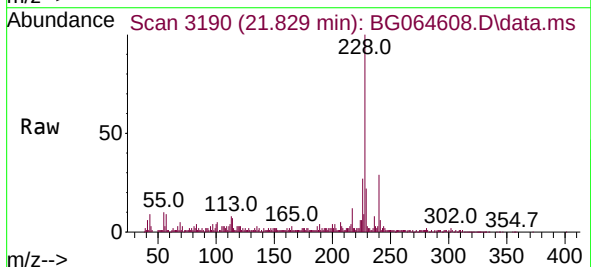
Instrument :
BNA_G
ClientSampleId :
JB-1

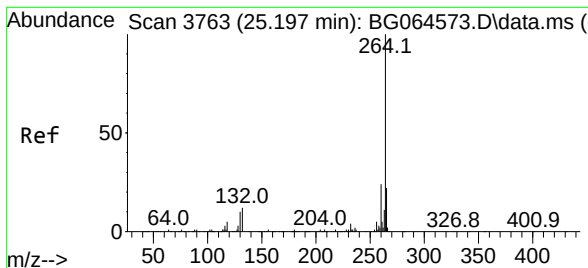
Tgt Ion:228 Resp: 150545
Ion Ratio Lower Upper
228 100
226 27.4 21.9 32.9
229 22.2 15.6 23.4



#83
Chrysene
Concen: 8.729 ng
RT: 21.829 min Scan# 3190
Delta R.T. -0.078 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

Tgt Ion:228 Resp: 150545
Ion Ratio Lower Upper
228 100
226 27.4 23.3 34.9
229 22.2 15.2 22.8





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.190 min Scan# 31

Delta R.T. -0.007 min

Lab File: BG064608.D

Acq: 28 Oct 2025 19:16

Instrument :

BNA_G

ClientSampleId :

JB-1

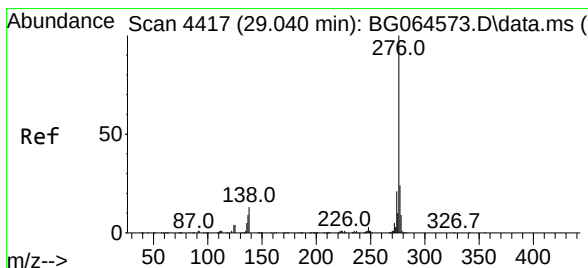
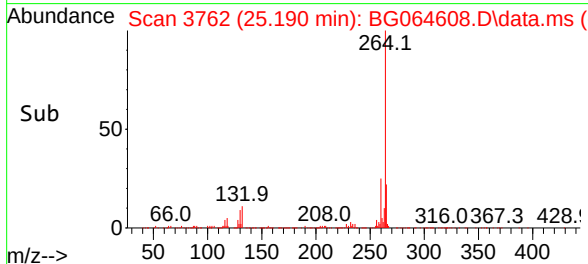
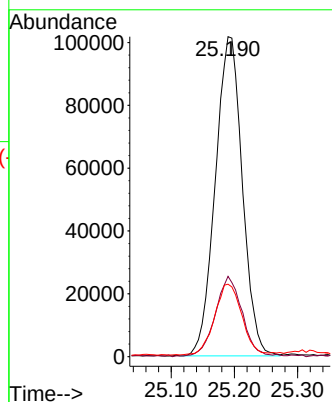
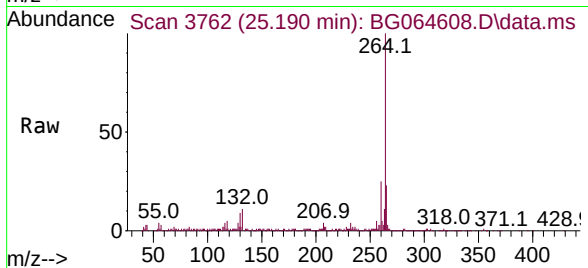
Tgt Ion:264 Resp: 302106

Ion Ratio Lower Upper

264 100

260 25.1 19.0 28.4

265 22.6 17.6 26.4



#87

Indeno(1,2,3-cd)pyrene

Concen: 3.526 ng

RT: 29.015 min Scan# 4413

Delta R.T. -0.025 min

Lab File: BG064608.D

Acq: 28 Oct 2025 19:16

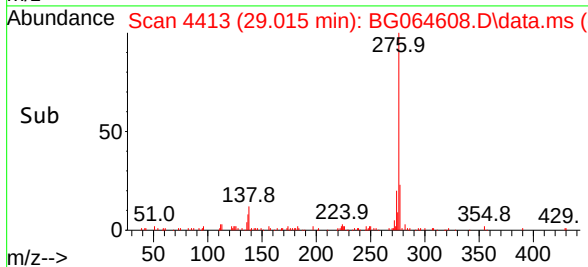
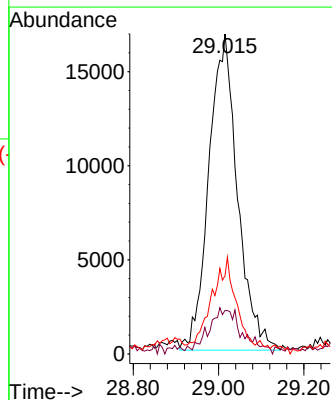
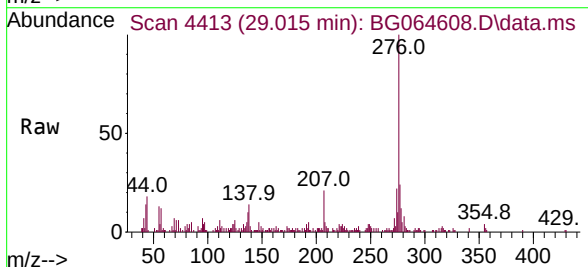
Tgt Ion:276 Resp: 78363

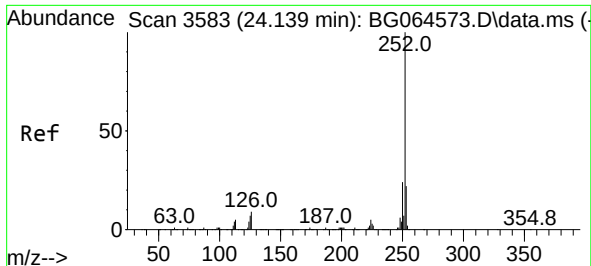
Ion Ratio Lower Upper

276 100

138 6.6 10.8 16.2#

277 22.6 20.1 30.1

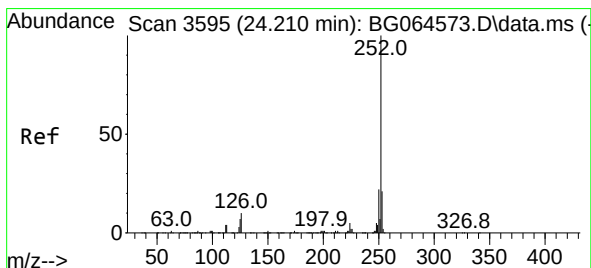
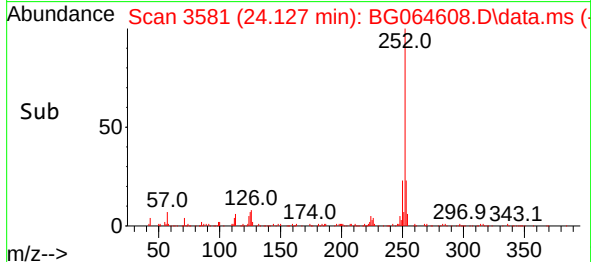
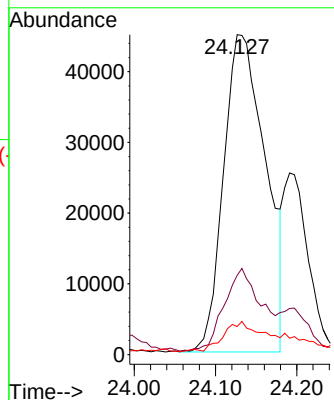
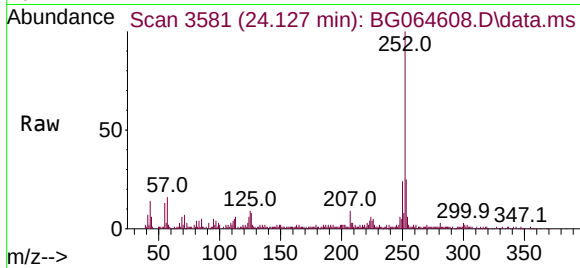




#88
Benzo(b)fluoranthene
Concen: 8.701 ng
RT: 24.127 min Scan# 3583
Delta R.T. -0.013 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

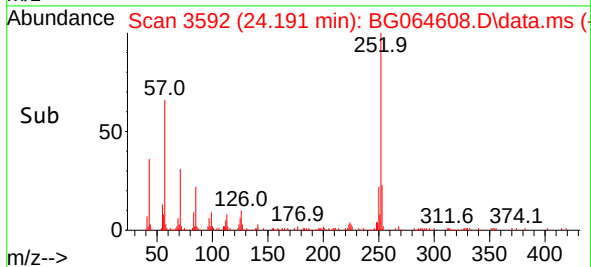
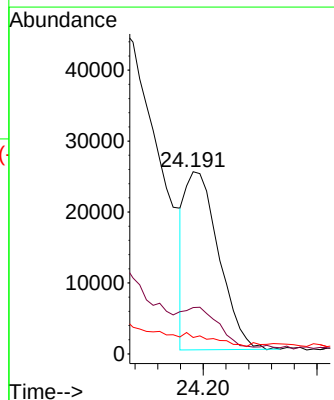
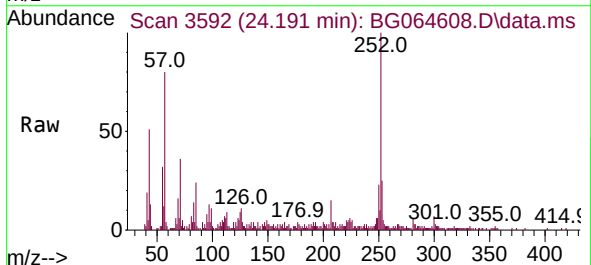
Instrument :
BNA_G
ClientSampleId :
JB-1

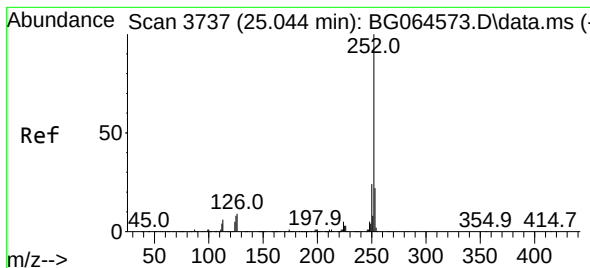
Tgt Ion:252 Resp: 161184
Ion Ratio Lower Upper
252 100
253 24.8 17.8 26.8
125 8.8 5.6 8.4#



#89
Benzo(k)fluoranthene
Concen: 2.773 ng
RT: 24.191 min Scan# 3592
Delta R.T. -0.019 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

Tgt Ion:252 Resp: 51413
Ion Ratio Lower Upper
252 100
253 25.4 16.8 25.2#
125 9.0 5.4 8.0#





#90

Benzo(a)pyrene

Concen: 7.038 ng

RT: 25.031 min Scan# 31

Delta R.T. -0.013 min

Lab File: BG064608.D

Acq: 28 Oct 2025 19:16

Instrument :

BNA_G

ClientSampleId :

JB-1

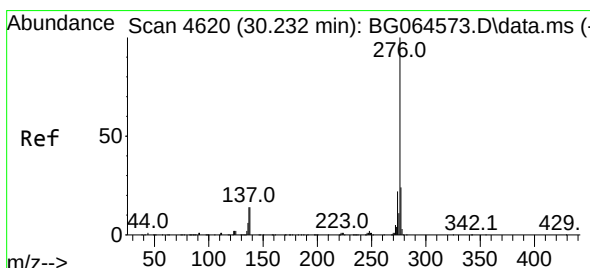
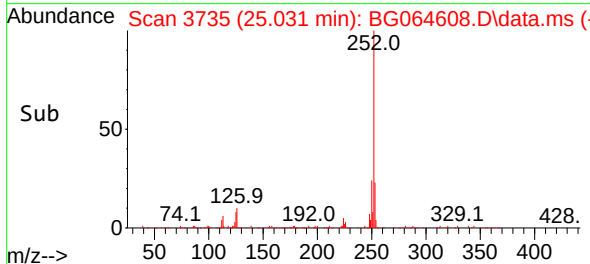
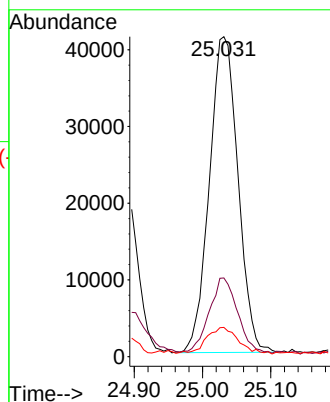
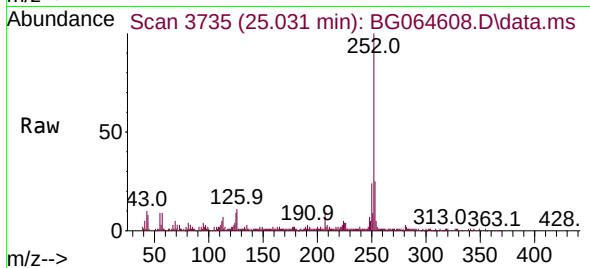
Tgt Ion:252 Resp: 119841

Ion Ratio Lower Upper

252 100

253 24.6 17.6 26.4

125 9.1 6.1 9.1



#92

Benzo(g,h,i)perylene

Concen: 4.373 ng

RT: 30.190 min Scan# 4613

Delta R.T. -0.042 min

Lab File: BG064608.D

Acq: 28 Oct 2025 19:16

Tgt Ion:276 Resp: 75433

Ion Ratio Lower Upper

276 100

277 26.2 19.1 28.7

138 16.5 11.3 16.9

