

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG102825\
 Data File : BG064606.D
 Acq On : 28 Oct 2025 17:54
 Operator : RC/JU
 Sample : Q6419-05
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 PR132-S16-094119-20251021

Quant Time: Oct 28 18:29:41 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG102425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 24 16:40:26 2025
 Response via : Initial Calibration

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

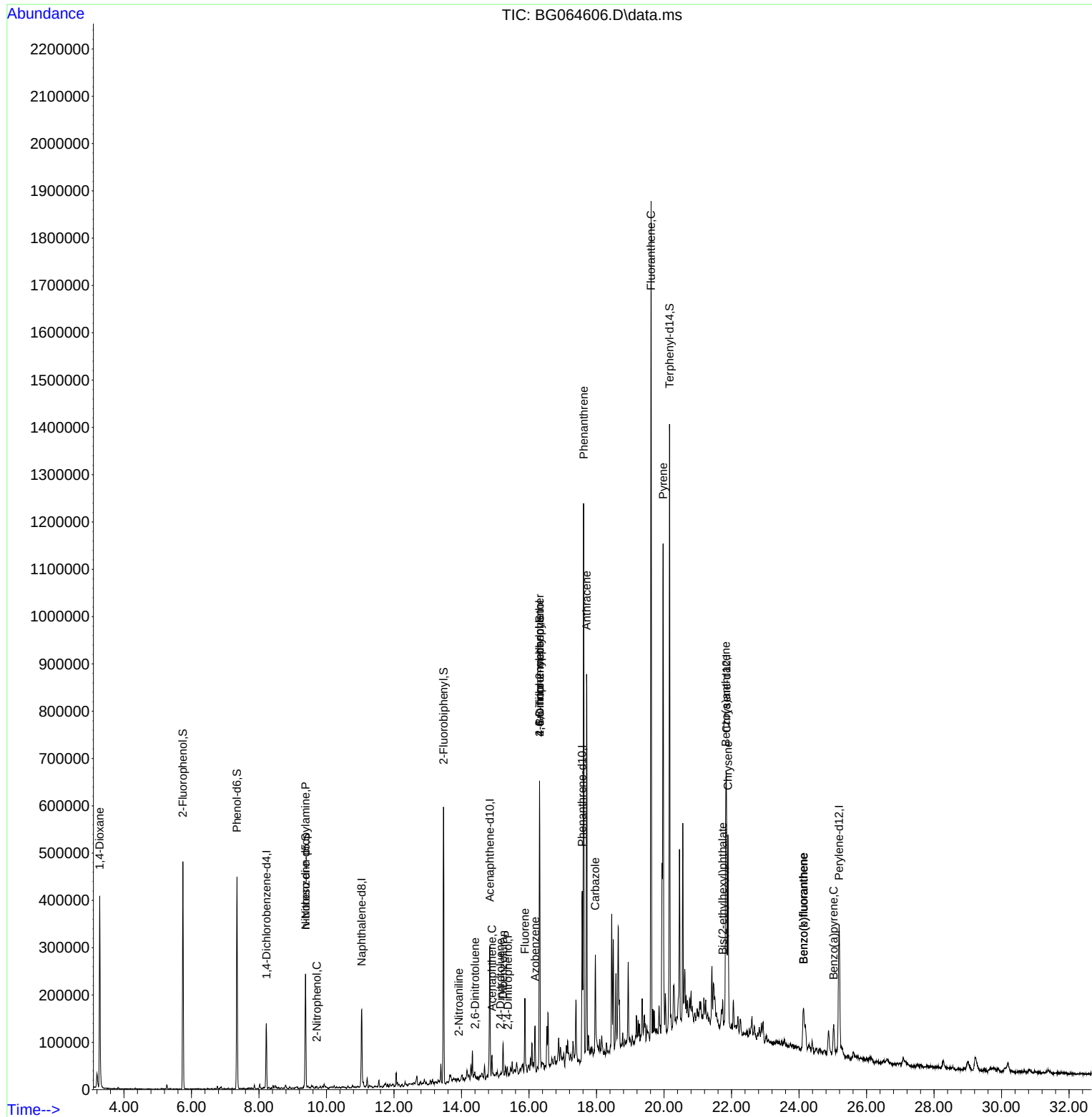
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.217	152	35915	20.000	ng	0.00
21) Naphthalene-d8	11.037	136	132339	20.000	ng	-0.02
39) Acenaphthene-d10	14.839	164	98576	20.000	ng	0.00
64) Phenanthrene-d10	17.577	188	222776	20.000	ng	0.00
76) Chrysene-d12	21.848	240	285835	20.000	ng	-0.02
86) Perylene-d12	25.185	264	312112	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.743	112	181180	84.675	ng	0.00
7) Phenol-d6	7.347	99	224152	76.343	ng	0.00
23) Nitrobenzene-d5	9.380	82	129605	58.822	ng	0.00
42) 2,4,6-Tribromophenol	16.313	330	117414	82.526	ng	0.00
45) 2-Fluorobiphenyl	13.470	172	302185	46.465	ng	0.00
79) Terphenyl-d14	20.168	244	662203	43.721	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.276	88	2999	3.166	ng	# 1
19) n-Nitroso-di-n-propyla...	9.380	70	18339	9.038	ng	# 71
26) 2-Nitrophenol	9.709	139	58	3.189	ng	# 29
48) 2-Nitroaniline	13.922	65	242	3.352	ng	# 54
51) 2,6-Dinitrotoluene	14.398	165	514	3.579	ng	# 41
52) Acenaphthene	14.903	154	16489	2.892	ng	# 93
54) 2,4-Dinitrophenol	15.379	184	53	5.636	ng	# 1
55) Dibenzofuran	15.232	168	31228	3.388	ng	# 96
57) 2,4-Dinitrotoluene	15.150	165	454	3.272	ng	# 39
58) Fluorene	15.879	166	67155	9.330	ng	# 95
63) Azobenzene	16.178	77	18038	2.553	ng	# 1
65) 4,6-Dinitro-2-methylph...	16.313	198	299	5.697	ng	# 56
67) 4-Bromophenyl-phenylether	16.313	248	7720	2.924	ng	# 1
71) Phenanthrene	17.618	178	763136	62.641	ng	# 99
72) Anthracene	17.706	178	540820	43.640	ng	# 100
73) Carbazole	17.964	167	141763	12.972	ng	# 98
75) Fluoranthene	19.615	202	1119221	73.335	ng	# 99
78) Pyrene	19.974	202	724689	38.805	ng	# 99
81) Benzo(a)anthracene	21.830	228	288604	15.228	ng	# 100
83) Chrysene	21.895	228	306600	17.002	ng	# 98
84) Bis(2-ethylhexyl)phtha...	21.736	149	20966	2.486	ng	# 95
88) Benzo(b)fluoranthene	24.134	252	125529	6.559	ng	# 98
89) Benzo(k)fluoranthene	24.134	252	125529	6.554	ng	# 98
90) Benzo(a)pyrene	25.027	252	78762	4.477	ng	# 99

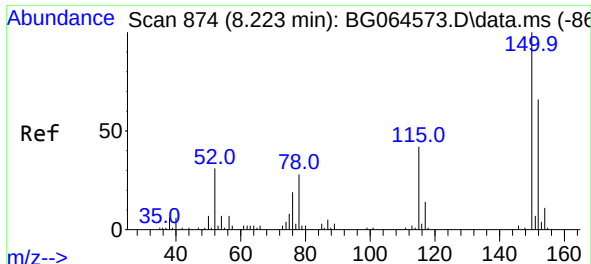
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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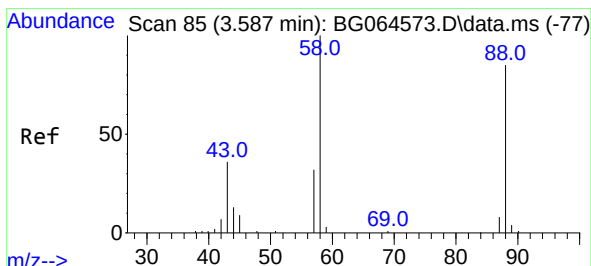
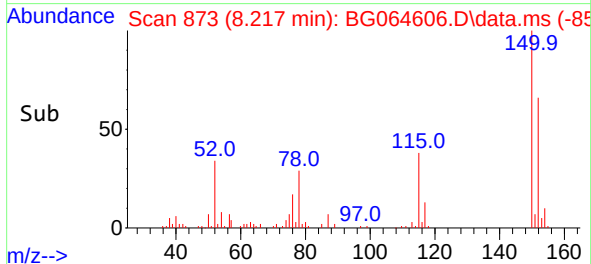
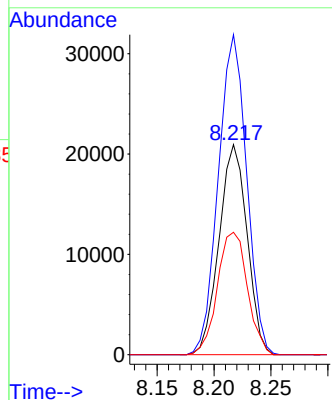
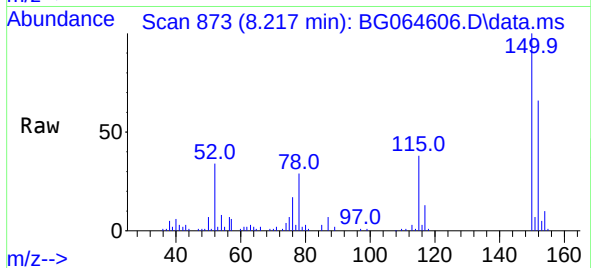




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.217 min Scan# 81
Delta R.T. -0.004 min
Lab File: BG064606.D
Acq: 28 Oct 2025 17:54

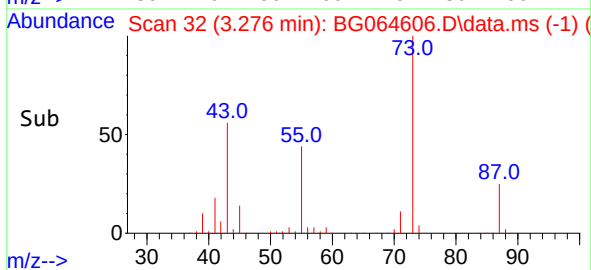
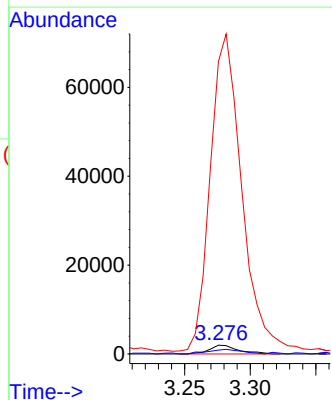
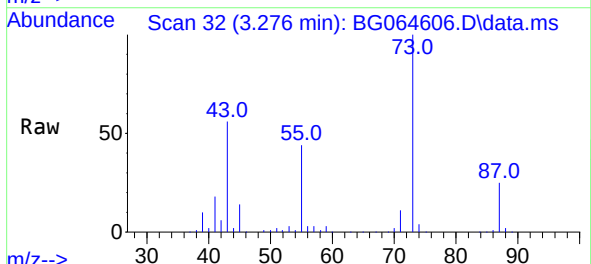
Instrument :
BNA_G
ClientSampleId :
PR132-S16-094119-20251021

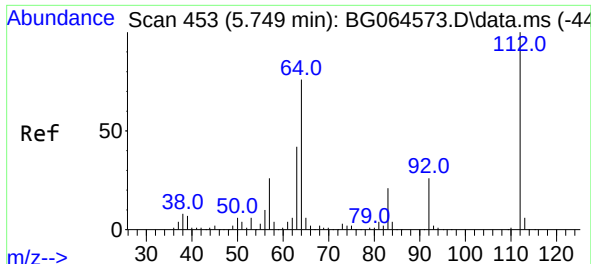
Tgt Ion:152 Resp: 35915
Ion Ratio Lower Upper
152 100
150 152.3 122.2 183.4
115 58.3 50.8 76.2



#2
1,4-Dioxane
Concen: 3.166 ng
RT: 3.276 min Scan# 32
Delta R.T. -0.315 min
Lab File: BG064606.D
Acq: 28 Oct 2025 17:54

Tgt Ion: 88 Resp: 2999
Ion Ratio Lower Upper
88 100
58 62.1 92.4 138.6#
43 4012.7 33.0 49.6#

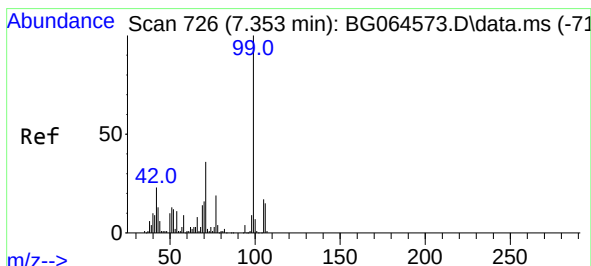
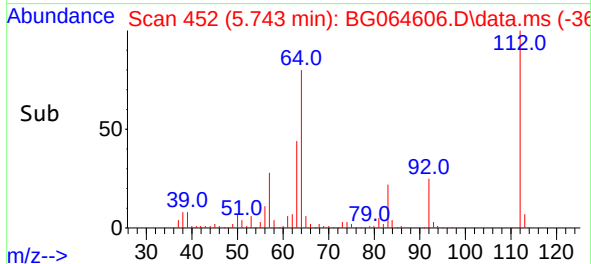
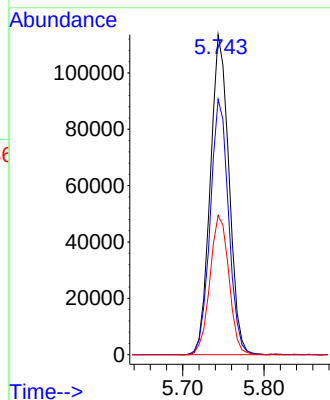
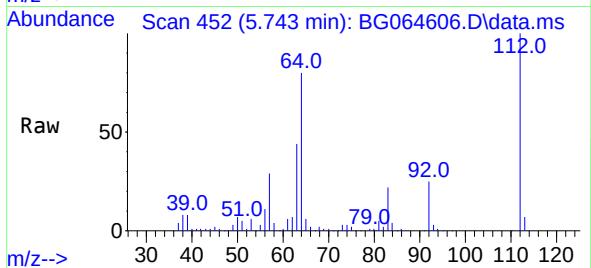




#5
2-Fluorophenol
Concen: 84.675 ng
RT: 5.743 min Scan# 411
Delta R.T. -0.004 min
Lab File: BG064606.D
Acq: 28 Oct 2025 17:54

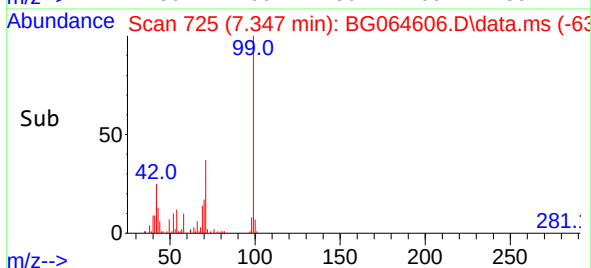
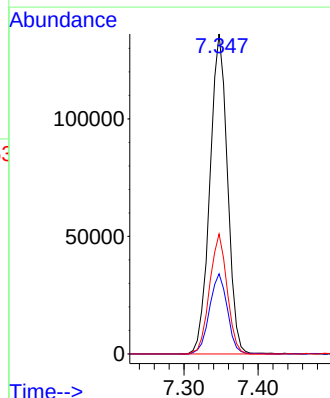
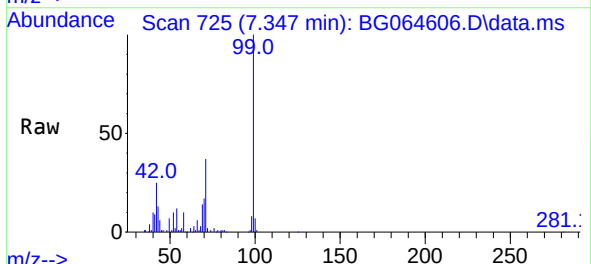
Instrument :
BNA_G
ClientSampleId :
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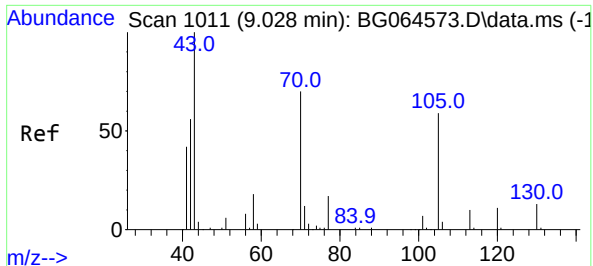
Tgt Ion:112 Resp: 181180
Ion Ratio Lower Upper
112 100
64 79.8 60.7 91.1
63 43.5 33.4 50.0



#7
Phenol-d6
Concen: 76.343 ng
RT: 7.347 min Scan# 725
Delta R.T. -0.009 min
Lab File: BG064606.D
Acq: 28 Oct 2025 17:54

Tgt Ion: 99 Resp: 224152
Ion Ratio Lower Upper
99 100
42 25.0 18.3 27.5
71 37.5 28.6 43.0



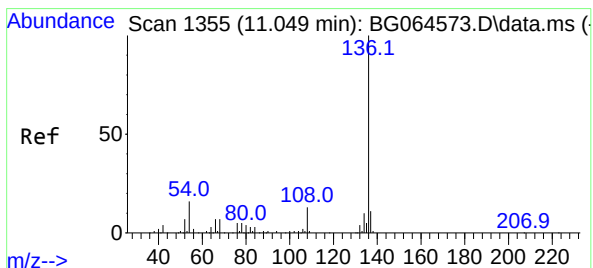
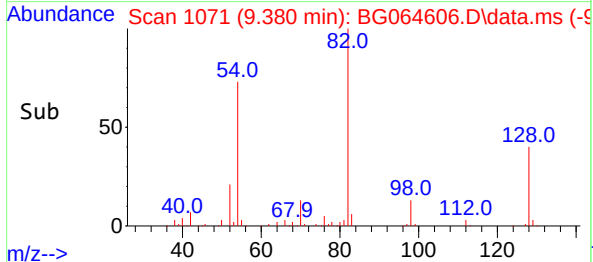
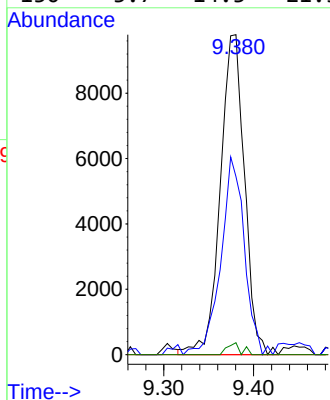
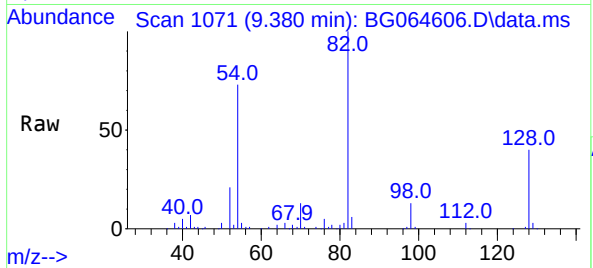


#19
n-Nitroso-di-n-propylamine
Concen: 9.038 ng
RT: 9.380 min Scan# 1011
Delta R.T. 0.349 min
Lab File: BG064606.D
Acq: 28 Oct 2025 17:54

Instrument :
BNA_G
ClientSampleId :
PR132-S16-094119-20251021

Tgt Ion: 70 Resp: 18339

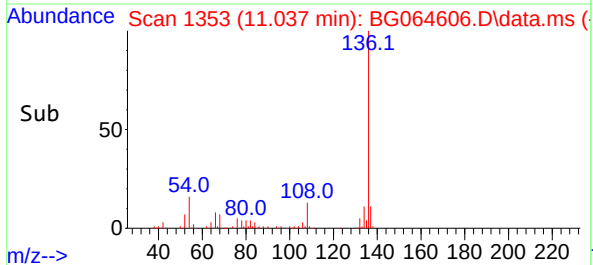
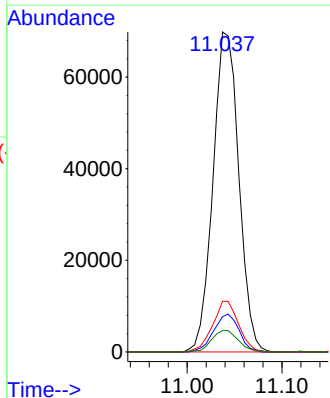
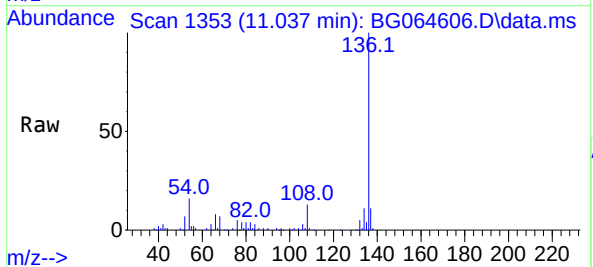
Ion	Ratio	Lower	Upper
70	100		
42	55.6	65.2	97.8#
101	0.0	7.9	11.9#
130	3.7	14.3	21.5#

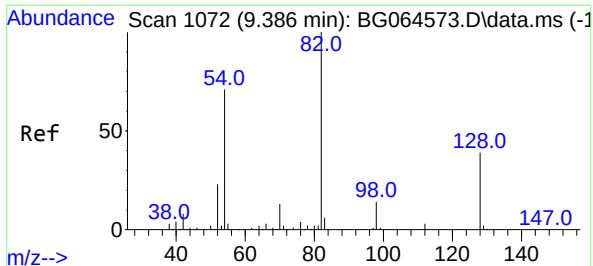


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.037 min Scan# 1353
Delta R.T. -0.015 min
Lab File: BG064606.D
Acq: 28 Oct 2025 17:54

Tgt Ion: 136 Resp: 132339

Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.2	13.8
54	15.9	12.6	19.0
68	6.7	5.7	8.5

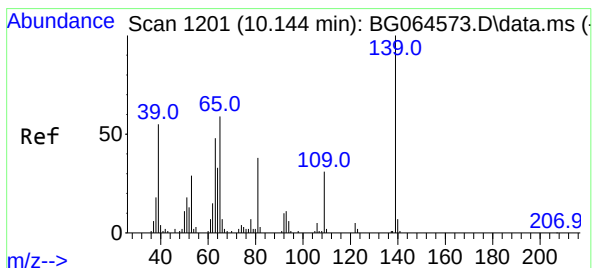
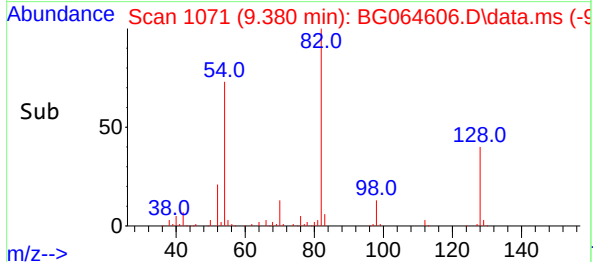
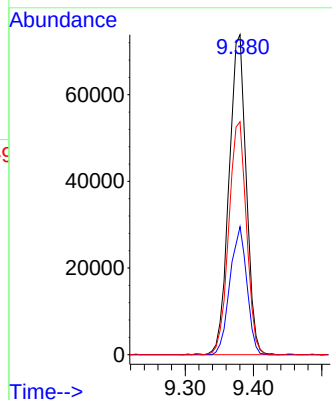
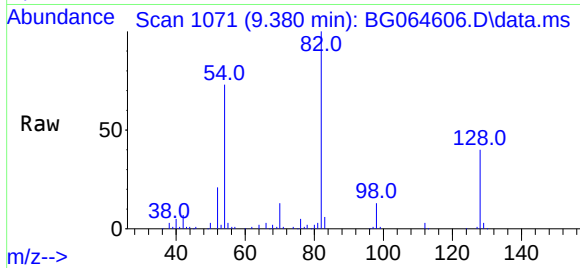




#23
Nitrobenzene-d5
Concen: 58.822 ng
RT: 9.380 min Scan# 1107
Delta R.T. -0.010 min
Lab File: BG064606.D
Acq: 28 Oct 2025 17:54

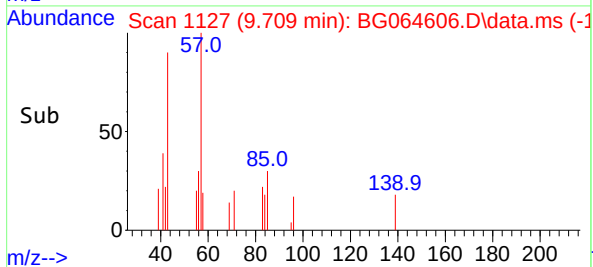
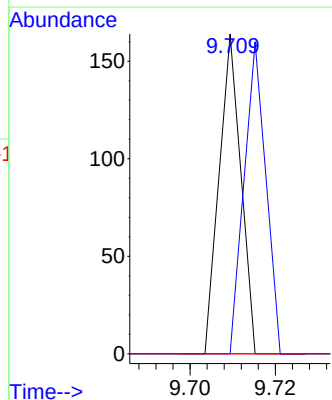
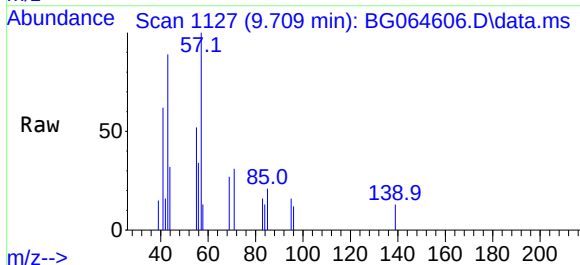
Instrument :
BNA_G
ClientSampleId :
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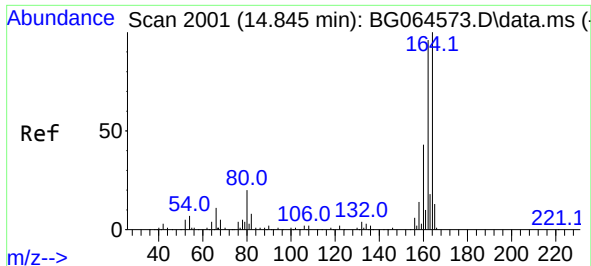
Tgt Ion: 82 Resp: 129605
Ion Ratio Lower Upper
82 100
128 40.0 31.3 46.9
54 72.8 56.6 84.8



#26
2-Nitrophenol
Concen: 3.189 ng
RT: 9.709 min Scan# 1127
Delta R.T. -0.439 min
Lab File: BG064606.D
Acq: 28 Oct 2025 17:54

Tgt Ion:139 Resp: 58
Ion Ratio Lower Upper
139 100
109 0.0 24.6 37.0#
65 0.0 47.5 71.3#

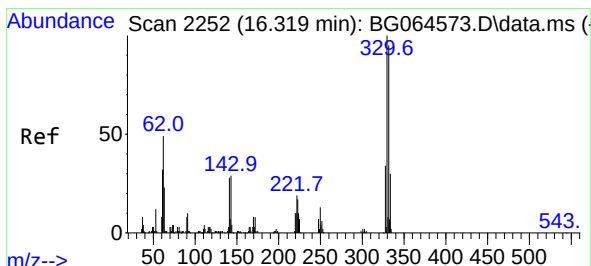
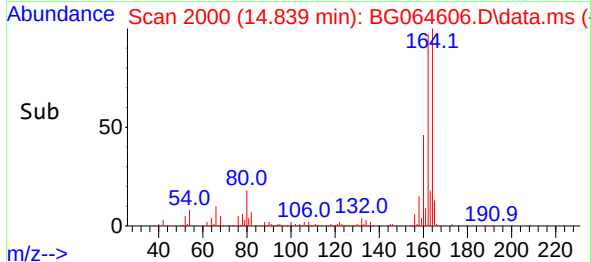
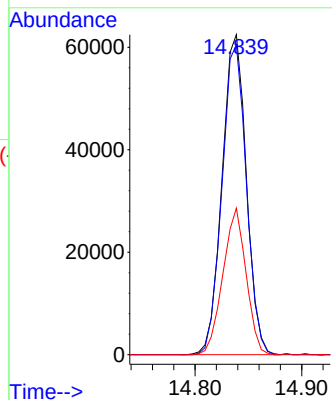
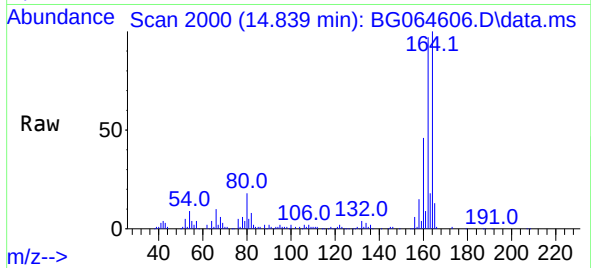




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.839 min Scan# 20
Delta R.T. -0.004 min
Lab File: BG064606.D
Acq: 28 Oct 2025 17:54

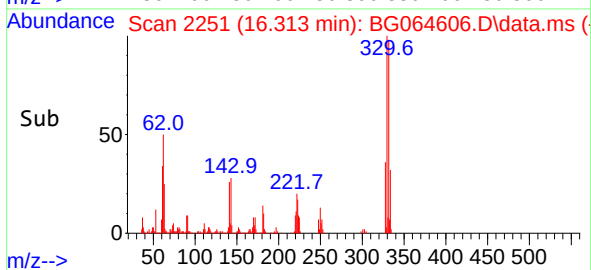
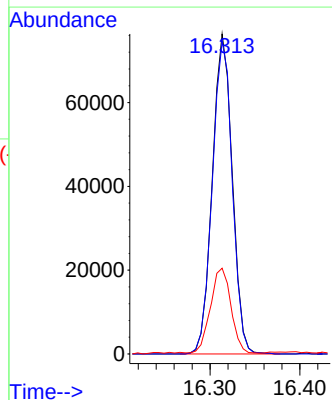
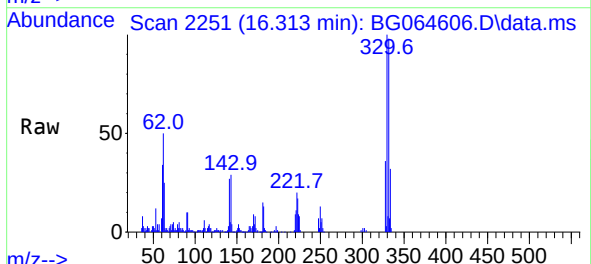
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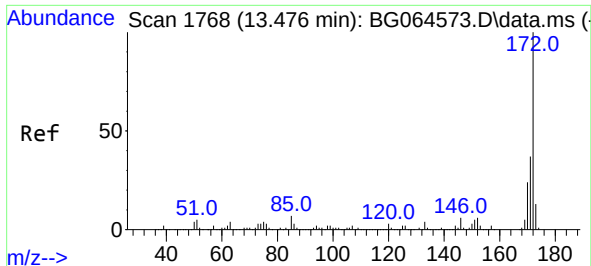
Tgt Ion:164 Resp: 98576
Ion Ratio Lower Upper
164 100
162 96.8 77.0 115.6
160 45.8 34.4 51.6



#42
2,4,6-Tribromophenol
Concen: 82.526 ng
RT: 16.313 min Scan# 2251
Delta R.T. -0.010 min
Lab File: BG064606.D
Acq: 28 Oct 2025 17:54

Tgt Ion:330 Resp: 117414
Ion Ratio Lower Upper
330 100
332 98.2 78.0 117.0
141 27.2 21.8 32.6

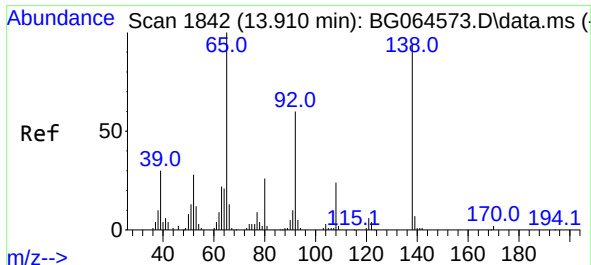
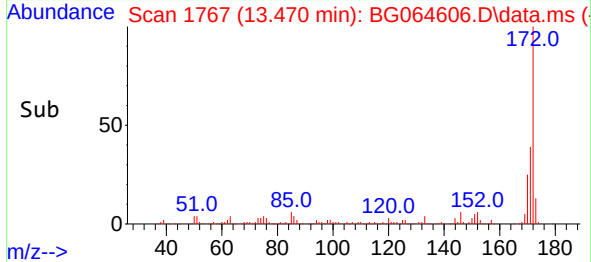
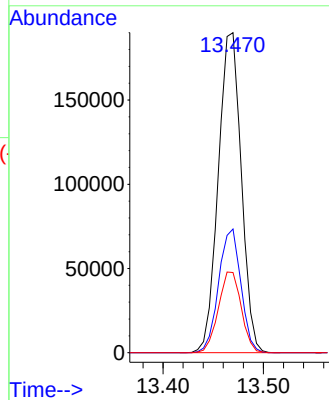
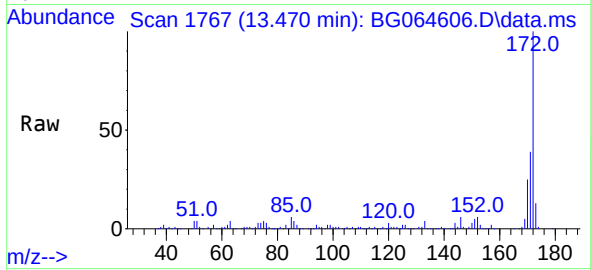




#45
2-Fluorobiphenyl
Concen: 46.465 ng
RT: 13.470 min Scan# 1768
Delta R.T. -0.009 min
Lab File: BG064606.D
Acq: 28 Oct 2025 17:54

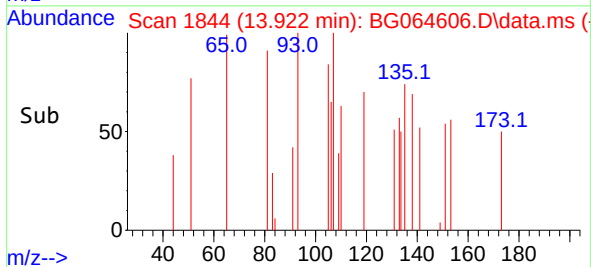
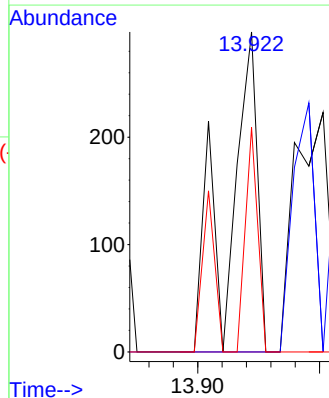
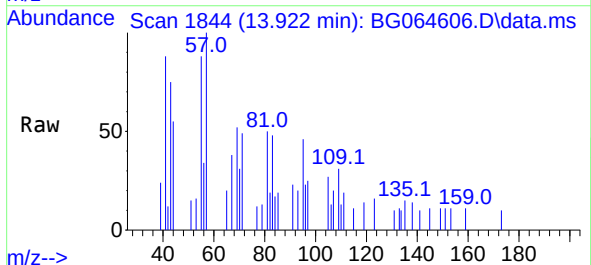
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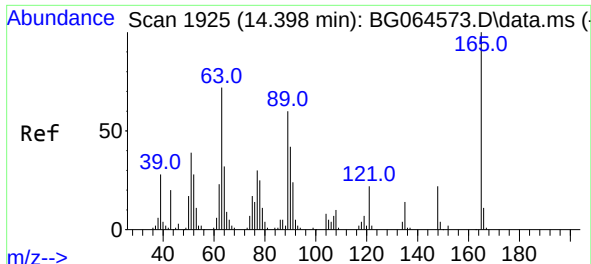
Tgt Ion:172 Resp: 302185
Ion Ratio Lower Upper
172 100
171 38.7 29.4 44.0
170 25.0 19.1 28.7



#48
2-Nitroaniline
Concen: 3.352 ng
RT: 13.922 min Scan# 1844
Delta R.T. 0.008 min
Lab File: BG064606.D
Acq: 28 Oct 2025 17:54

Tgt Ion: 65 Resp: 242
Ion Ratio Lower Upper
65 100
92 0.0 48.3 72.5#
138 70.1 74.9 112.3#

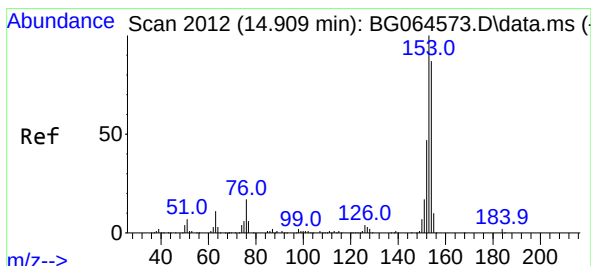
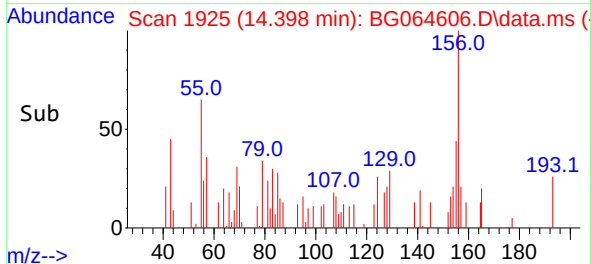
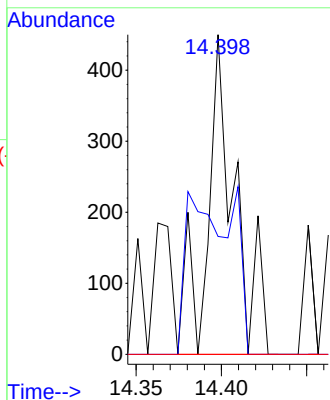
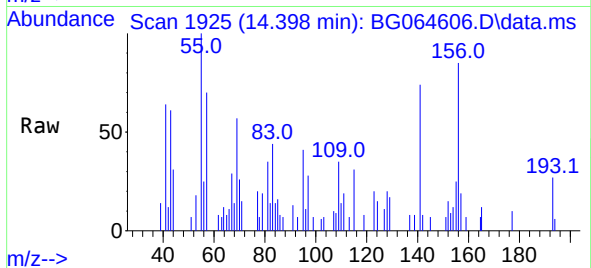




#51
2,6-Dinitrotoluene
Concen: 3.579 ng
RT: 14.398 min Scan# 1925
Delta R.T. -0.004 min
Lab File: BG064606.D
Acq: 28 Oct 2025 17:54

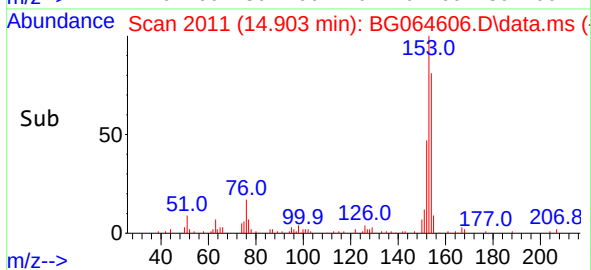
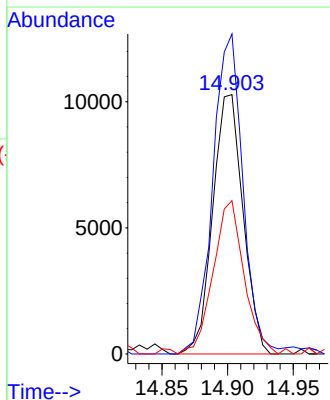
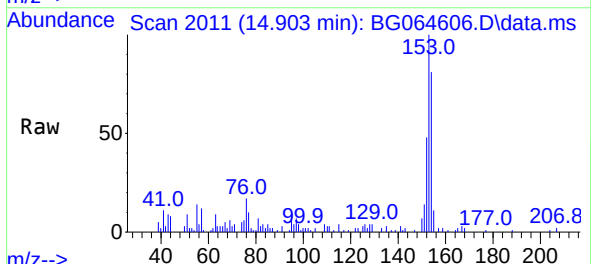
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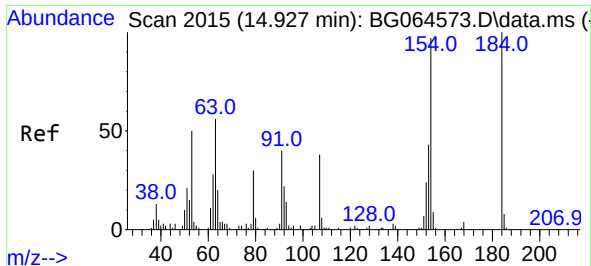
Tgt Ion:	165	Resp:	514
Ion	Ratio	Lower	Upper
165	100		
63	36.9	57.4	86.0#
89	0.0	47.8	71.8#



#52
Acenaphthene
Concen: 2.892 ng
RT: 14.903 min Scan# 2011
Delta R.T. -0.009 min
Lab File: BG064606.D
Acq: 28 Oct 2025 17:54

Tgt Ion:	154	Resp:	16489
Ion	Ratio	Lower	Upper
154	100		
153	123.4	92.2	138.4
152	59.1	43.2	64.8

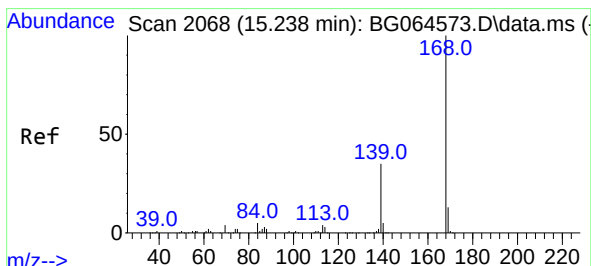
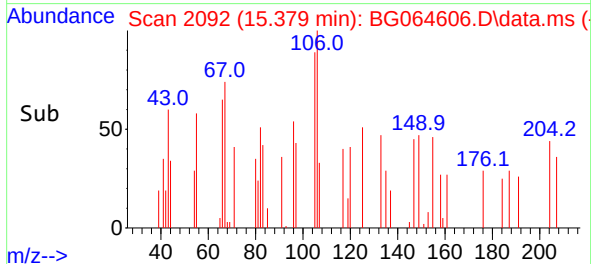
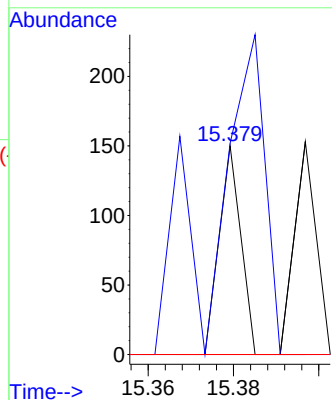
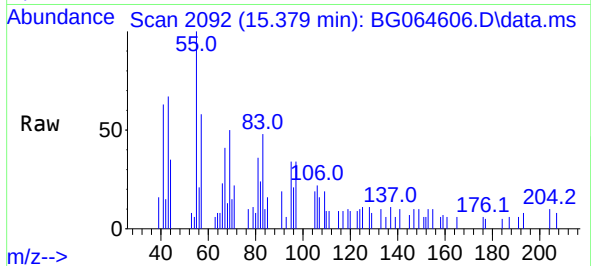




#54
2,4-Dinitrophenol
Concen: 5.636 ng
RT: 15.379 min Scan# 2015
Delta R.T. 0.449 min
Lab File: BG064606.D
Acq: 28 Oct 2025 17:54

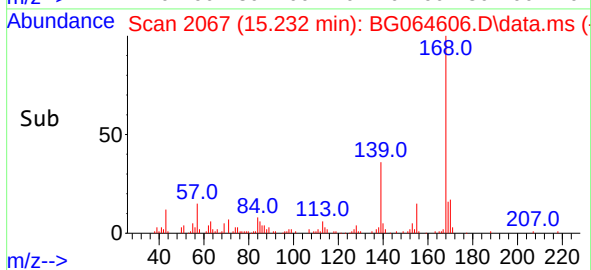
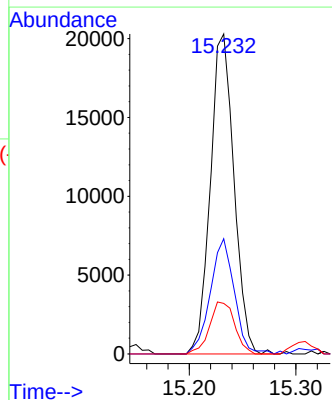
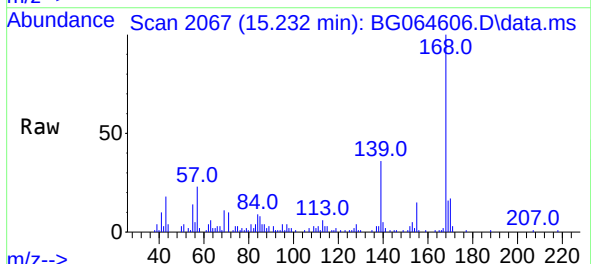
Instrument :
BNA_G
ClientSampleId :
PR132-S16-094119-20251021

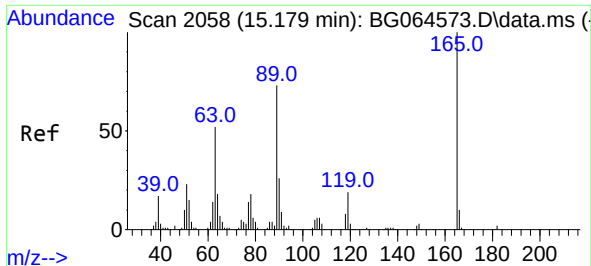
Tgt Ion:184 Resp: 53
Ion Ratio Lower Upper
184 100
63 101.3 56.6 85.0#
154 0.0 158.6 238.0#



#55
Dibenzofuran
Concen: 3.388 ng
RT: 15.232 min Scan# 2067
Delta R.T. -0.009 min
Lab File: BG064606.D
Acq: 28 Oct 2025 17:54

Tgt Ion:168 Resp: 31228
Ion Ratio Lower Upper
168 100
139 36.0 27.8 41.8
169 15.8 10.3 15.5#





#57

2,4-Dinitrotoluene

Concen: 3.272 ng

RT: 15.150 min Scan# 2058

Delta R.T. -0.039 min

Lab File: BG064606.D

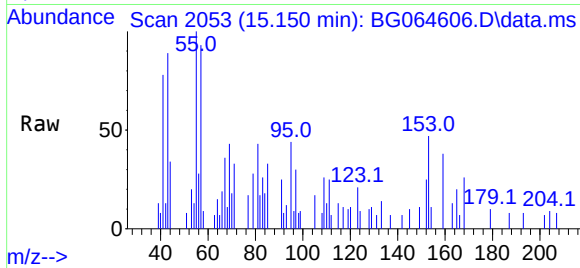
Acq: 28 Oct 2025 17:54

Instrument :

BNA_G

ClientSampleId :

PR132-S16-094119-20251021



Tgt Ion:165 Resp: 454

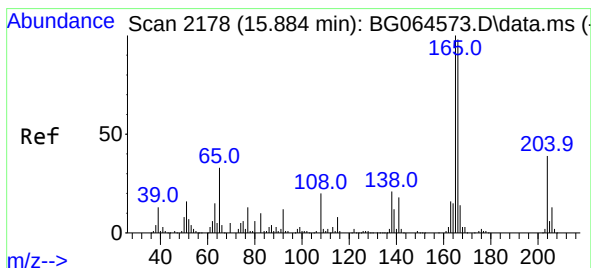
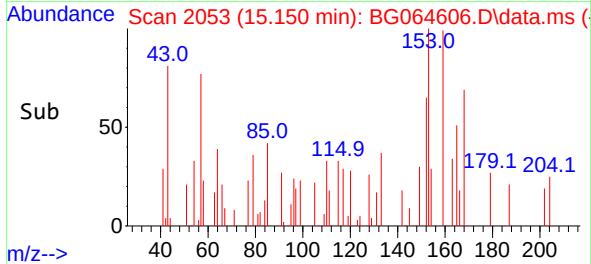
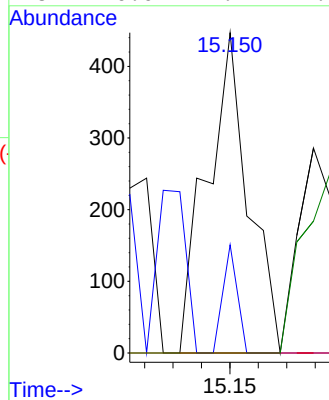
Ion Ratio Lower Upper

165 100

63 33.8 41.8 62.8#

89 0.0 58.1 87.1#

182 0.0 1.4 2.0#



#58

Fluorene

Concen: 9.330 ng

RT: 15.879 min Scan# 2177

Delta R.T. -0.009 min

Lab File: BG064606.D

Acq: 28 Oct 2025 17:54

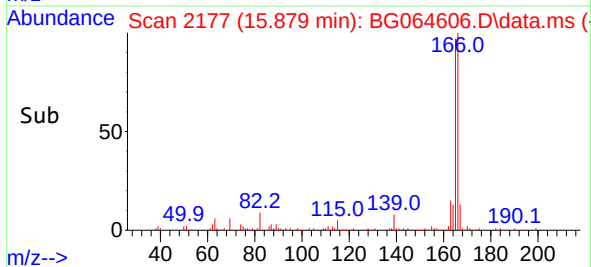
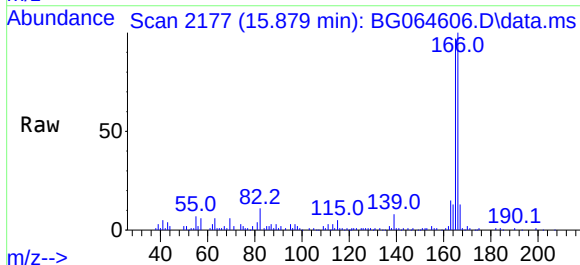
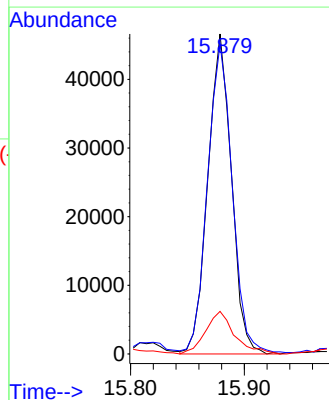
Tgt Ion:166 Resp: 67155

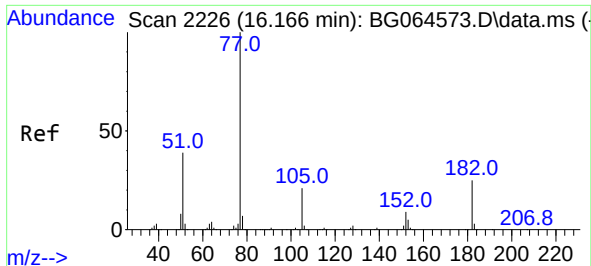
Ion Ratio Lower Upper

166 100

165 96.9 81.5 122.3

167 13.3 11.4 17.0

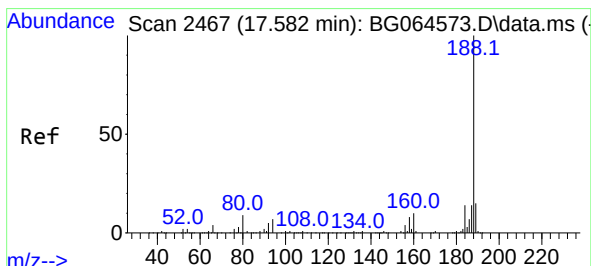
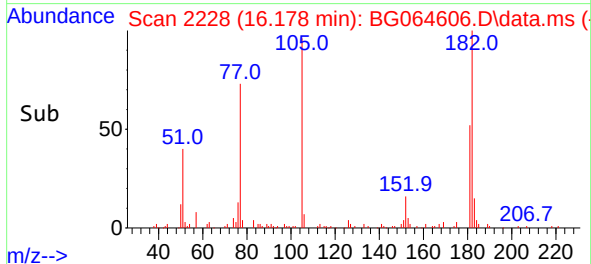
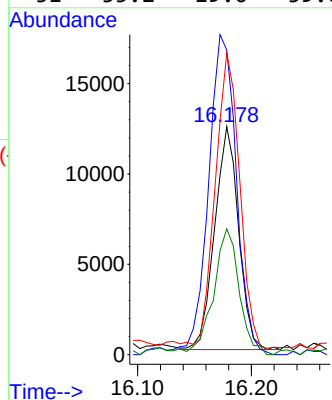
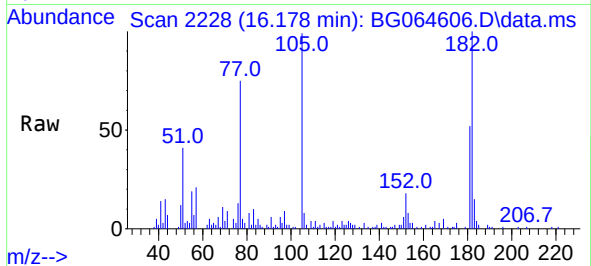




#63
Azobenzene
Concen: 2.553 ng
RT: 16.178 min Scan# 21
Delta R.T. 0.008 min
Lab File: BG064606.D
Acq: 28 Oct 2025 17:54

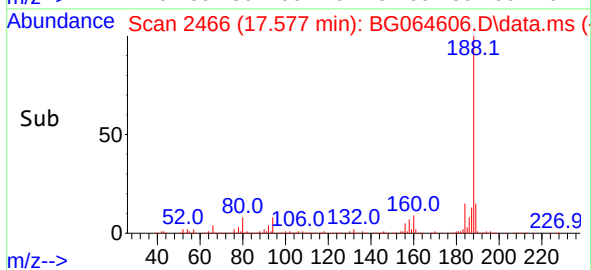
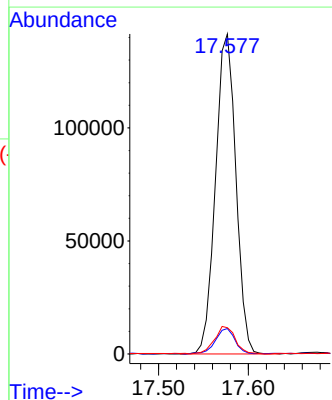
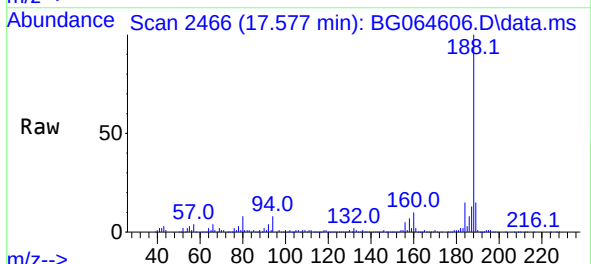
Instrument :
BNA_G
ClientSampleId :
PR132-S16-094119-20251021

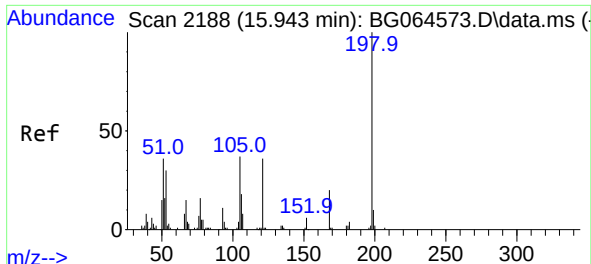
Tgt Ion: 77	Resp: 18038
Ion Ratio	Lower Upper
77 100	
182 133.6	4.9 44.9#
105 132.3	1.3 41.3#
51 55.2	19.0 59.0



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.577 min Scan# 2466
Delta R.T. -0.003 min
Lab File: BG064606.D
Acq: 28 Oct 2025 17:54

Tgt Ion: 188	Resp: 222776
Ion Ratio	Lower Upper
188 100	
94 7.9	5.7 8.5
80 8.2	6.8 10.2

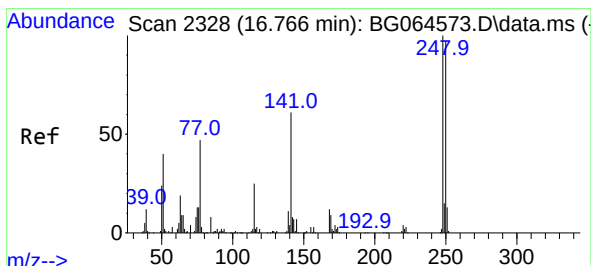
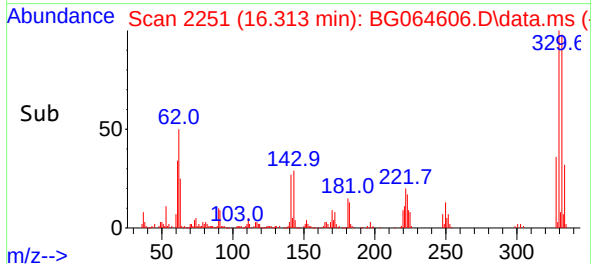
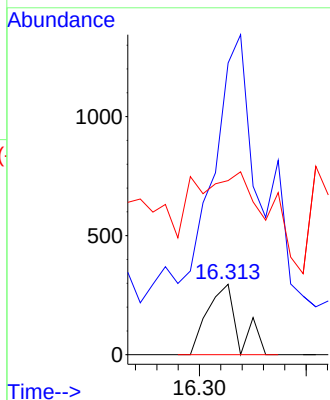
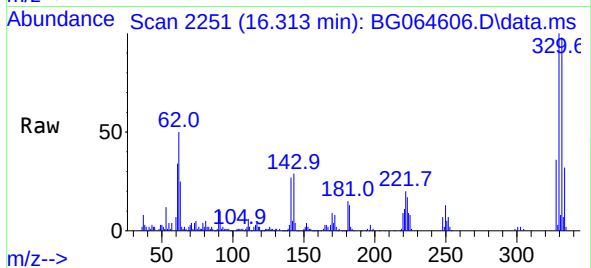




#65
4,6-Dinitro-2-methylphenol
Concen: 5.697 ng
RT: 16.313 min Scan# 2188
Delta R.T. 0.366 min
Lab File: BG064606.D
Acq: 28 Oct 2025 17:54

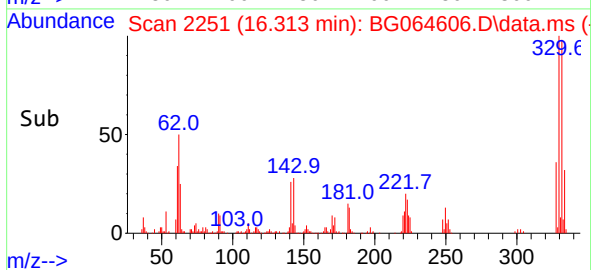
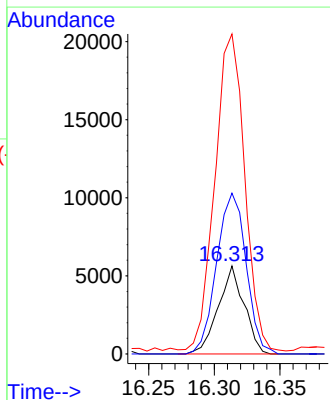
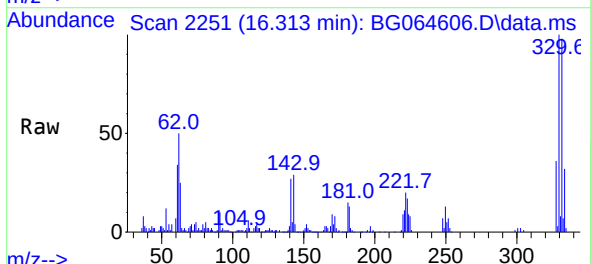
Instrument :
BNA_G
ClientSampleId :
PR132-S16-094119-20251021

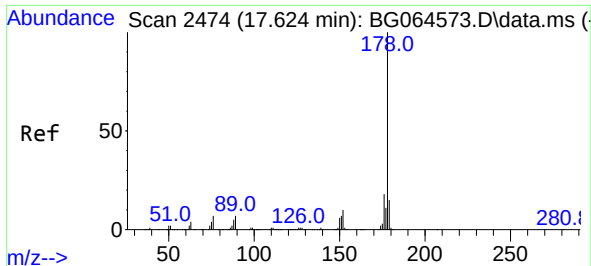
Tgt Ion:198 Resp: 299
Ion Ratio Lower Upper
198 100
51 85.4 24.7 64.7#
105 51.0 18.0 58.0



#67
4-Bromophenyl-phenylether
Concen: 2.924 ng
RT: 16.313 min Scan# 2251
Delta R.T. -0.456 min
Lab File: BG064606.D
Acq: 28 Oct 2025 17:54

Tgt Ion:248 Resp: 7720
Ion Ratio Lower Upper
248 100
250 247.8 77.7 116.5#
141 363.8 48.6 72.8#

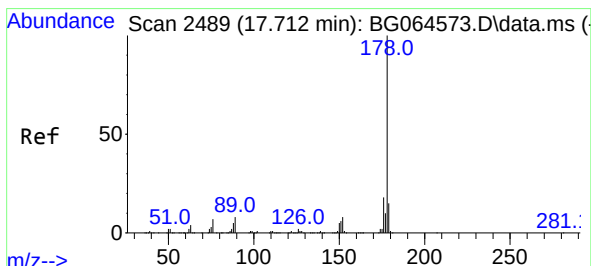
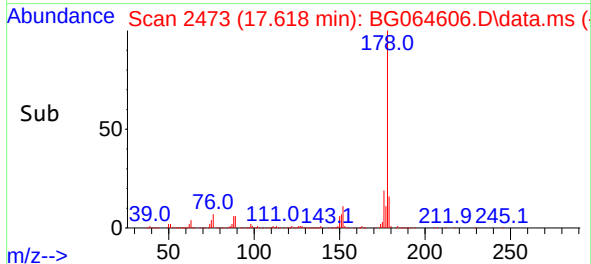
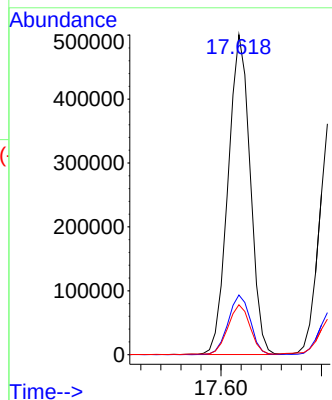
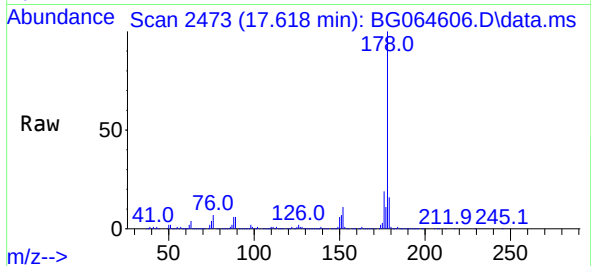




#71
Phenanthrene
Concen: 62.641 ng
RT: 17.618 min Scan# 2473
Delta R.T. -0.009 min
Lab File: BG064606.D
Acq: 28 Oct 2025 17:54

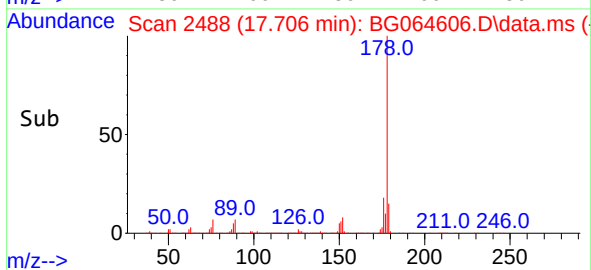
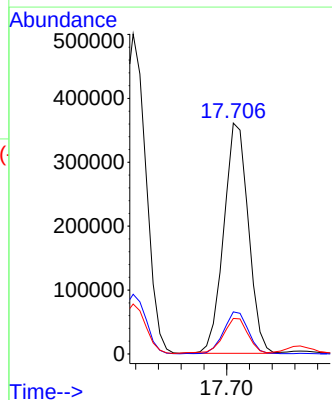
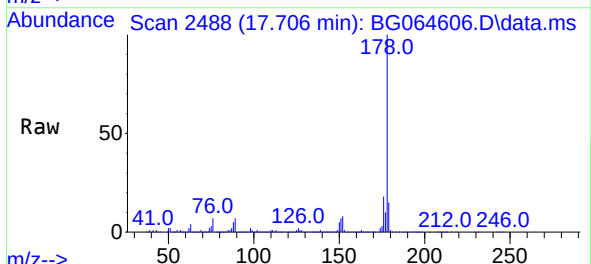
Instrument :
BNA_G
ClientSampleId :
PR132-S16-094119-20251021

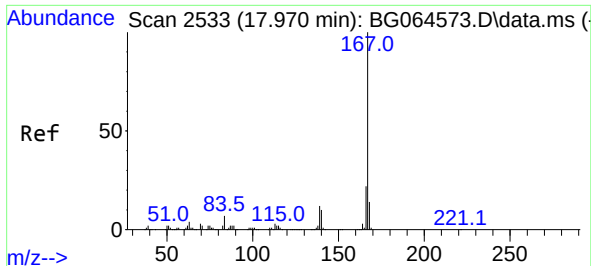
Tgt Ion:178 Resp: 763136
Ion Ratio Lower Upper
178 100
176 18.6 14.7 22.1
179 15.6 12.2 18.4



#72
Anthracene
Concen: 43.640 ng
RT: 17.706 min Scan# 2488
Delta R.T. -0.009 min
Lab File: BG064606.D
Acq: 28 Oct 2025 17:54

Tgt Ion:178 Resp: 540820
Ion Ratio Lower Upper
178 100
176 18.2 14.4 21.6
179 15.4 12.4 18.6

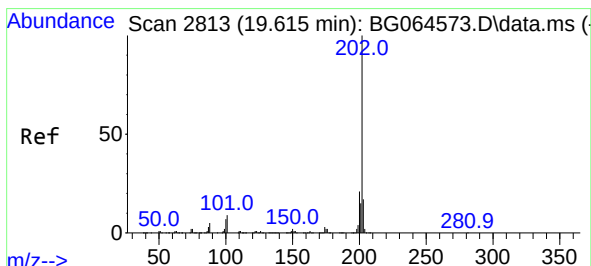
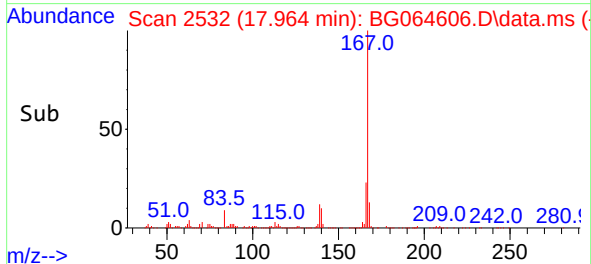
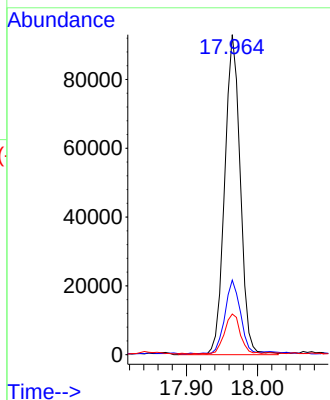
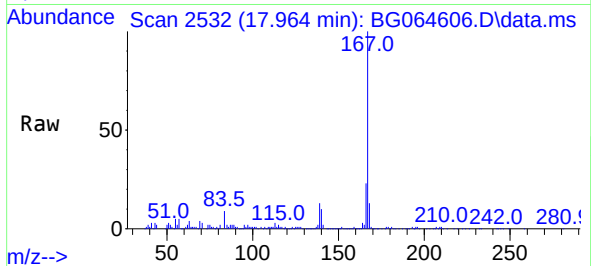




#73
 Carbazole
 Concen: 12.972 ng
 RT: 17.964 min Scan# 2533
 Delta R.T. -0.009 min
 Lab File: BG064606.D
 Acq: 28 Oct 2025 17:54

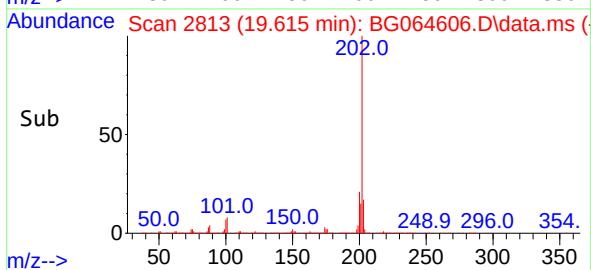
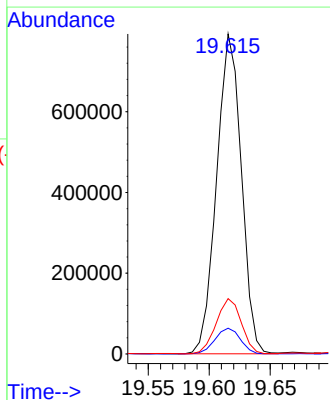
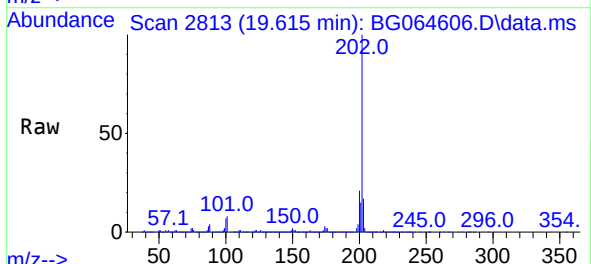
Instrument : BNA_G
 ClientSampleId : PR132-S16-094119-20251021

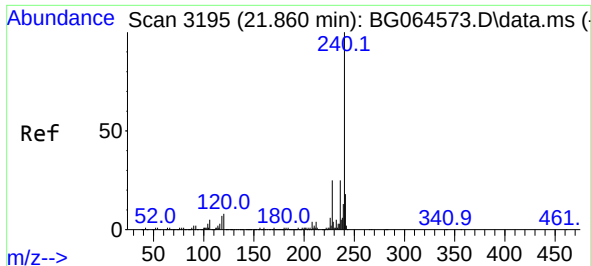
Tgt Ion:167	Resp: 141763
Ion Ratio	Lower Upper
167 100	
166 23.3	17.9 26.9
139 12.7	9.7 14.5



#75
 Fluoranthene
 Concen: 73.335 ng
 RT: 19.615 min Scan# 2813
 Delta R.T. -0.004 min
 Lab File: BG064606.D
 Acq: 28 Oct 2025 17:54

Tgt	Ion:202	Resp:	1119221
Ion	Ratio	Lower	Upper
202	100		
101	8.1	0.0	28.7
203	17.3	0.0	37.0

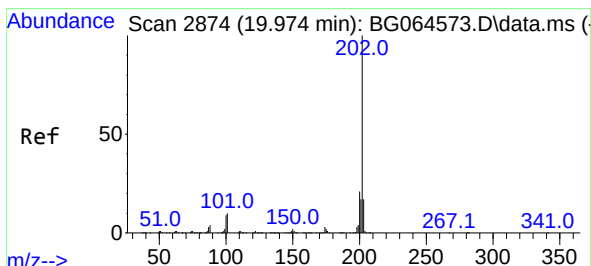
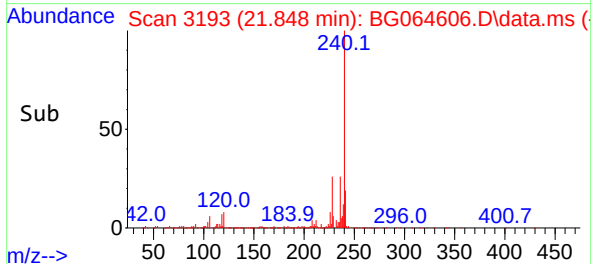
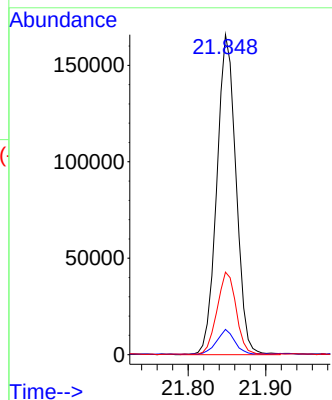
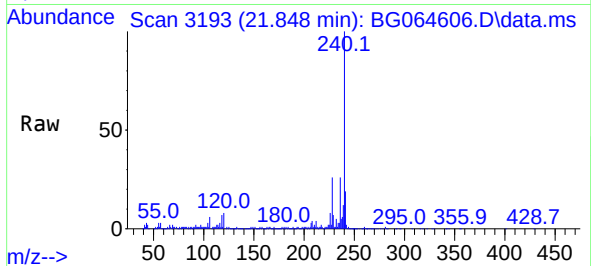




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.848 min Scan# 31
Delta R.T. -0.015 min
Lab File: BG064606.D
Acq: 28 Oct 2025 17:54

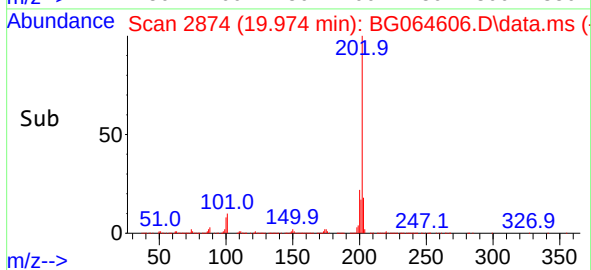
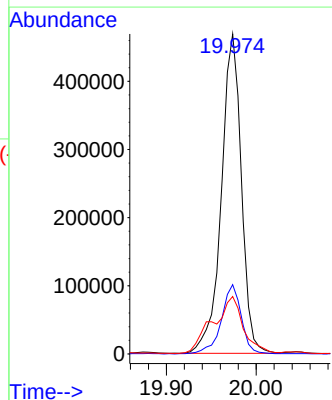
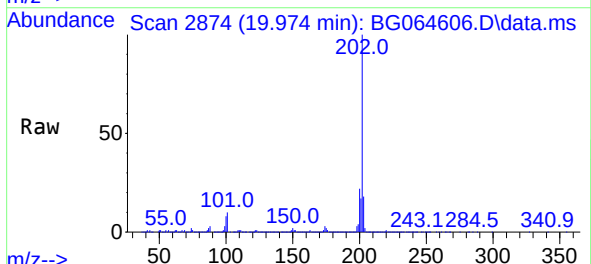
Instrument :
BNA_G
ClientSampleId :
PR132-S16-094119-20251021

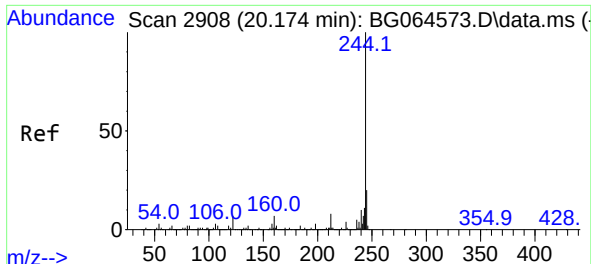
Tgt Ion:240 Resp: 285835
Ion Ratio Lower Upper
240 100
120 7.9 6.5 9.7
236 25.8 20.2 30.2



#78
Pyrene
Concen: 38.805 ng
RT: 19.974 min Scan# 2874
Delta R.T. -0.004 min
Lab File: BG064606.D
Acq: 28 Oct 2025 17:54

Tgt Ion:202 Resp: 724689
Ion Ratio Lower Upper
202 100
200 21.6 17.0 25.4
203 17.9 13.8 20.6



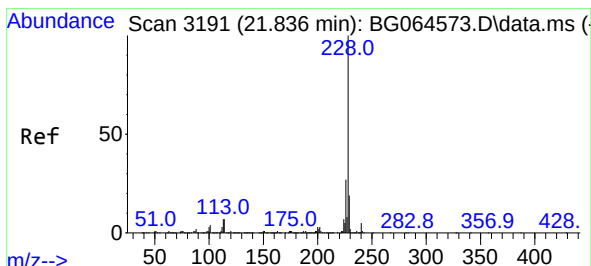
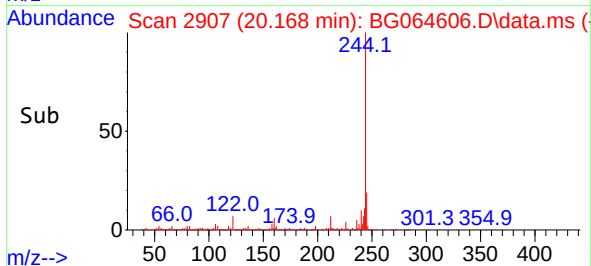
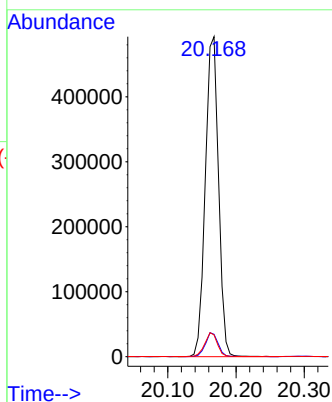
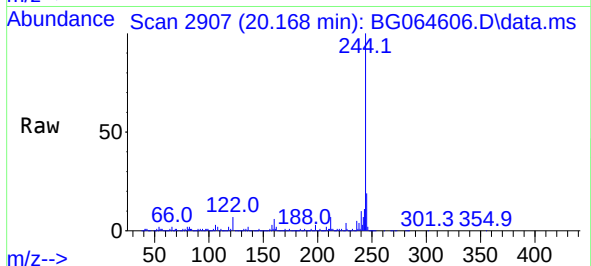


#79
 Terphenyl-d14
 Concen: 43.721 ng
 RT: 20.168 min Scan# 2907
 Delta R.T. -0.009 min
 Lab File: BG064606.D
 Acq: 28 Oct 2025 17:54

Instrument :
 BNA_G
 ClientSampleId :
 PR132-S16-094119-20251021

Tgt Ion:244 Resp: 662203

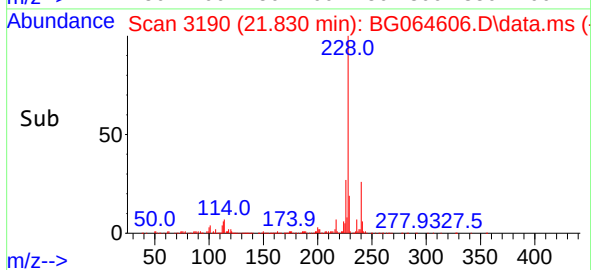
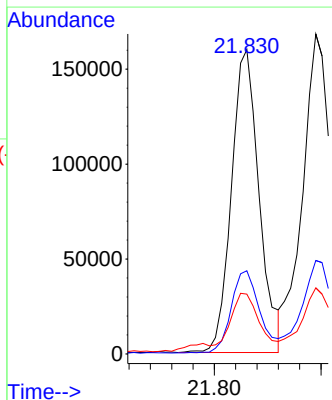
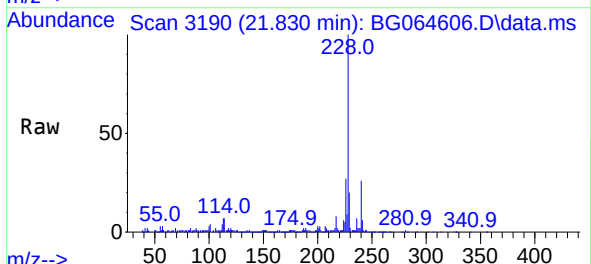
Ion	Ratio	Lower	Upper
244	100		
212	7.0	6.1	9.1
122	6.8	5.6	8.4

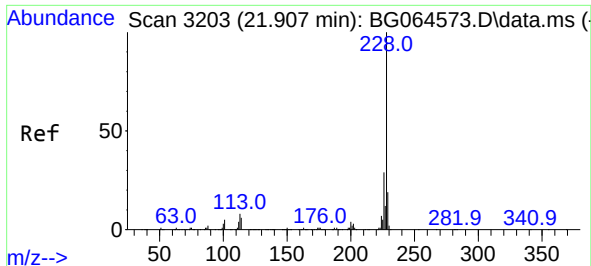


#81
 Benzo(a)anthracene
 Concen: 15.228 ng
 RT: 21.830 min Scan# 3190
 Delta R.T. -0.009 min
 Lab File: BG064606.D
 Acq: 28 Oct 2025 17:54

Tgt Ion:228 Resp: 288604

Ion	Ratio	Lower	Upper
228	100		
226	27.4	21.9	32.9
229	19.7	15.6	23.4

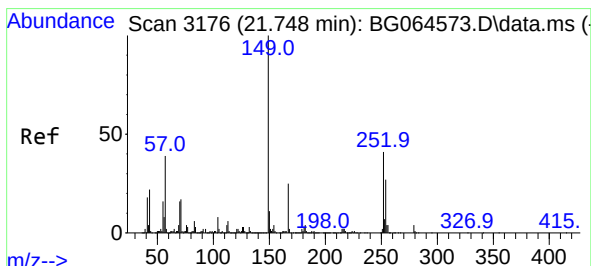
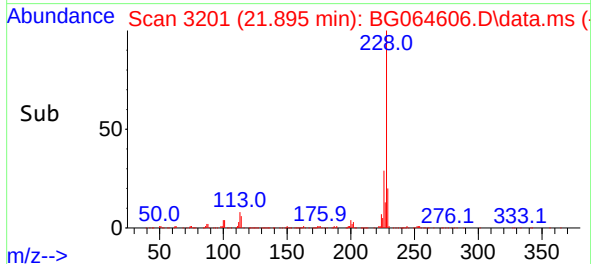
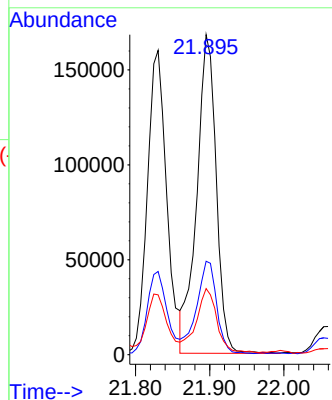
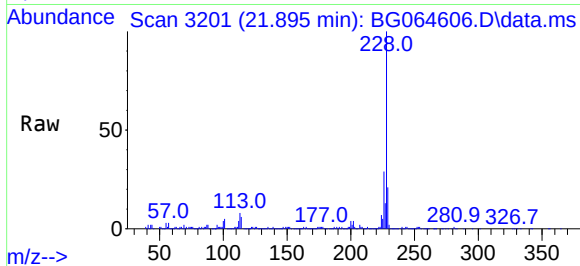




#83
Chrysene
Concen: 17.002 ng
RT: 21.895 min Scan# 31
Delta R.T. -0.015 min
Lab File: BG064606.D
Acq: 28 Oct 2025 17:54

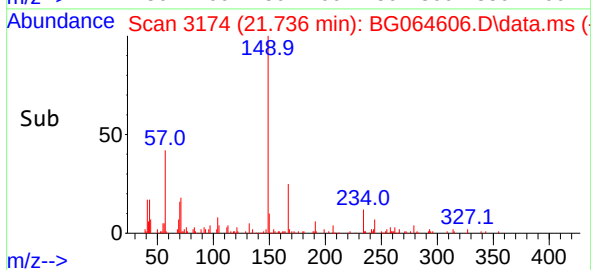
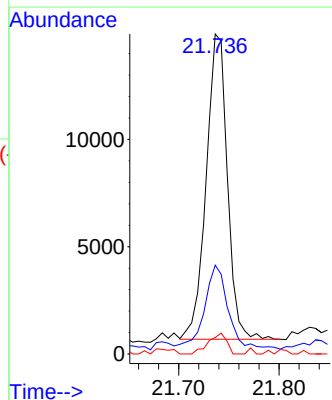
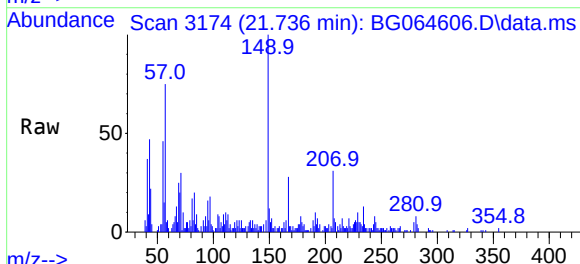
Instrument :
BNA_G
ClientSampleId :
PR132-S16-094119-20251021

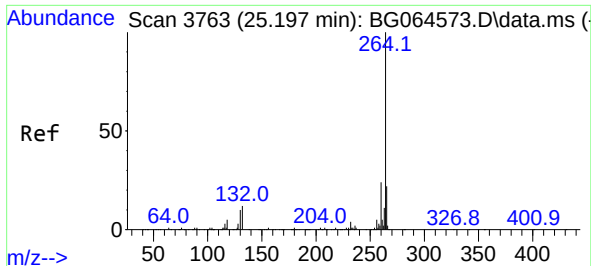
Tgt Ion:	228	Resp:	306600
Ion Ratio	Lower	Upper	
228	100		
226	29.2	23.3	34.9
229	20.7	15.2	22.8



#84
Bis(2-ethylhexyl)phthalate
Concen: 2.486 ng
RT: 21.736 min Scan# 3174
Delta R.T. -0.015 min
Lab File: BG064606.D
Acq: 28 Oct 2025 17:54

Tgt Ion:	149	Resp:	20966
Ion Ratio	Lower	Upper	
149	100		
167	27.7	20.0	30.0
279	5.2	3.1	4.7#



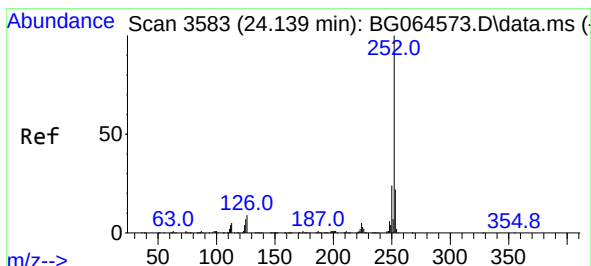
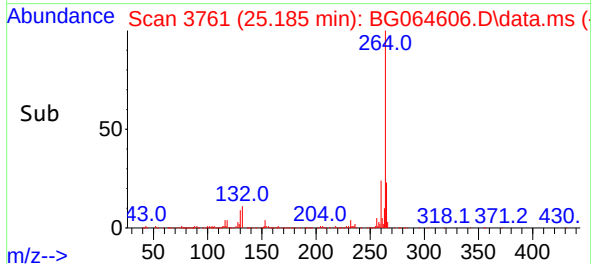
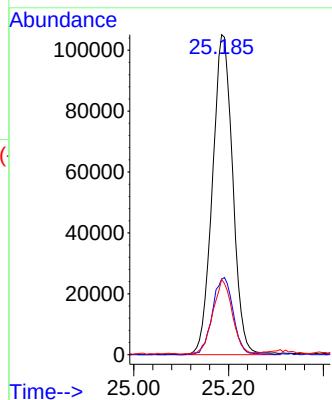
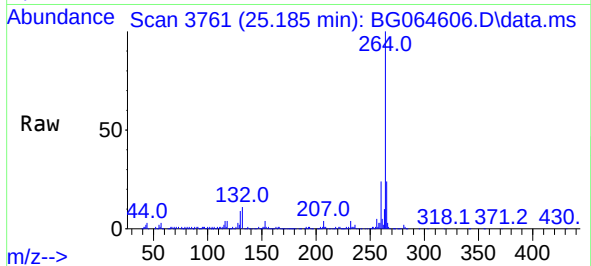


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.185 min Scan# 31
Delta R.T. -0.015 min
Lab File: BG064606.D
Acq: 28 Oct 2025 17:54

Instrument :
BNA_G
ClientSampleId :
PR132-S16-094119-20251021

Tgt Ion:264 Resp: 312112

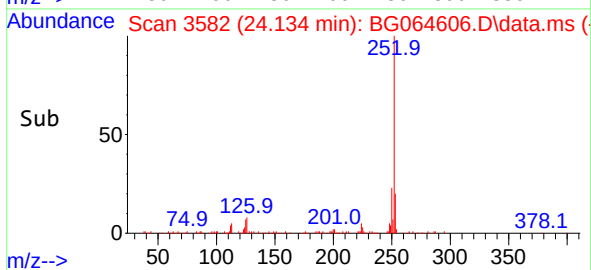
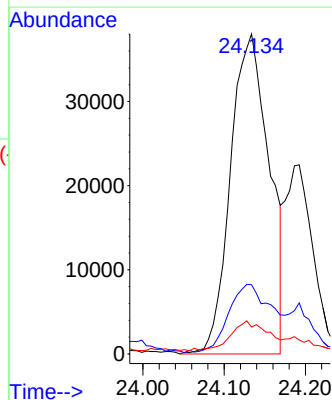
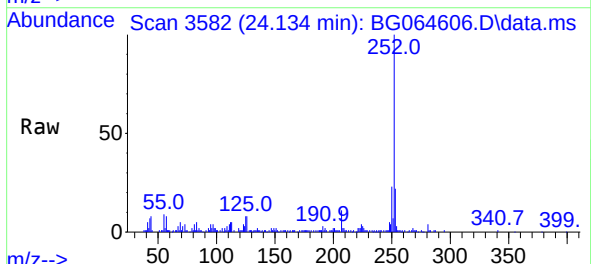
Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.0	28.4
265	23.6	17.6	26.4

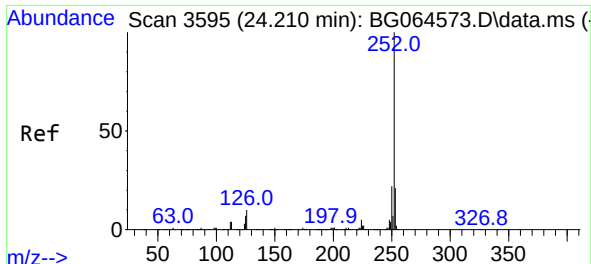


#88
Benzo(b)fluoranthene
Concen: 6.559 ng
RT: 24.134 min Scan# 3582
Delta R.T. -0.009 min
Lab File: BG064606.D
Acq: 28 Oct 2025 17:54

Tgt Ion:252 Resp: 125529

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.8	26.8
125	8.4	5.6	8.4





#89

Benzo(k)fluoranthene

Concen: 6.554 ng

RT: 24.134 min Scan# 3

Delta R.T. -0.086 min

Lab File: BG064606.D

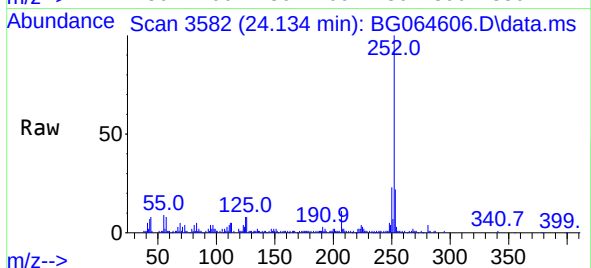
Acq: 28 Oct 2025 17:54

Instrument :

BNA_G

ClientSampleId :

PR132-S16-094119-20251021



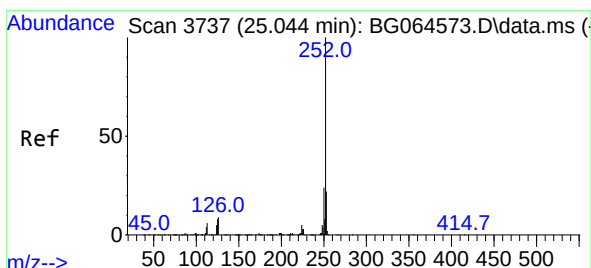
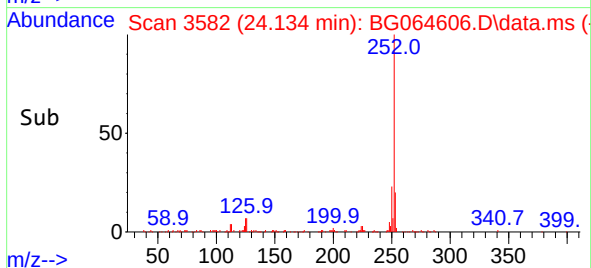
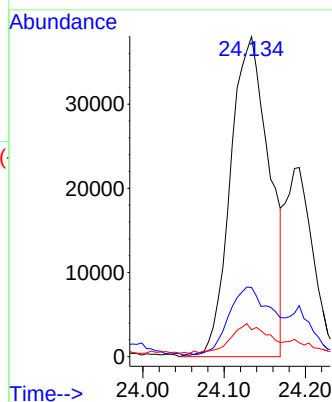
Tgt Ion:252 Resp: 125529

Ion Ratio Lower Upper

252 100

253 21.7 16.8 25.2

125 8.4 5.4 8.0#



#90

Benzo(a)pyrene

Concen: 4.477 ng

RT: 25.027 min Scan# 3734

Delta R.T. -0.033 min

Lab File: BG064606.D

Acq: 28 Oct 2025 17:54

Tgt Ion:252 Resp: 78762

Ion Ratio Lower Upper

252 100

253 21.3 17.6 26.4

125 8.1 6.1 9.1

