

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG102825\
 Data File : BG064610.D
 Acq On : 28 Oct 2025 20:37
 Operator : RC/JU
 Sample : Q3451-05
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 TP-12

Quant Time: Nov 04 05:54:30 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)

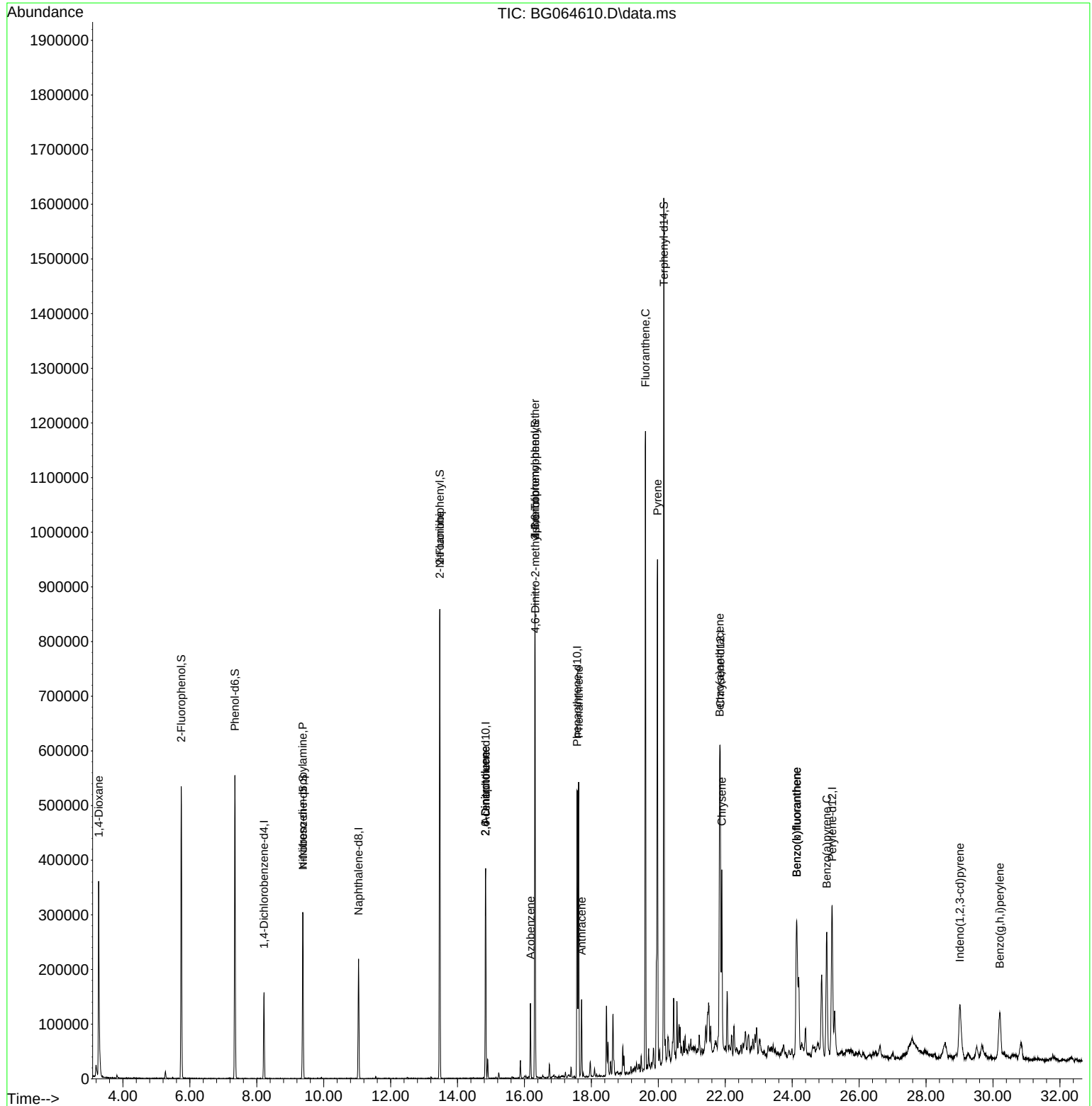
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.218	152	41968	20.000	ng	0.00
21) Naphthalene-d8	11.044	136	173020	20.000	ng	0.00
39) Acenaphthene-d10	14.839	164	139918	20.000	ng	0.00
64) Phenanthrene-d10	17.571	188	348691	20.000	ng	-0.01
76) Chrysene-d12	21.849	240	279745	20.000	ng	-0.01
86) Perylene-d12	25.192	264	320908	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.744	112	208706	83.471	ng	0.00
7) Phenol-d6	7.348	99	283969	82.766	ng	0.00
23) Nitrobenzene-d5	9.381	82	170040	59.028	ng	0.00
42) 2,4,6-Tribromophenol	16.314	330	181582	89.917	ng	0.00
45) 2-Fluorobiphenyl	13.470	172	458707	49.692	ng	0.00
79) Terphenyl-d14	20.168	244	826307	55.743	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.276	88	2699	2.438	ng	# 1
19) n-Nitroso-di-n-propyla...	9.375	70	22580	9.523	ng	# 76
48) 2-Nitroaniline	13.464	65	824	3.530	ng	# 1
51) 2,6-Dinitrotoluene	14.833	165	18355	12.892	ng	# 19
57) 2,4-Dinitrotoluene	14.833	165	18355	9.344	ng	# 21
63) Azobenzene	16.179	77	36952	3.684	ng	# 1
65) 4,6-Dinitro-2-methylph...	16.320	198	511	5.722	ng	# 1
67) 4-Bromophenyl-phenylether	16.314	248	12015	2.908	ng	# 1
71) Phenanthrene	17.618	178	345695	18.129	ng	100
72) Anthracene	17.706	178	97177	5.010	ng	99
75) Fluoranthene	19.616	202	763677	31.969	ng	99
78) Pyrene	19.974	202	629417	34.437	ng	100
81) Benzo(a)anthracene	21.831	228	291015	15.689	ng	99
83) Chrysene	21.896	228	248103	14.057	ng	98
87) Indeno(1,2,3-cd)pyrene	29.005	276	188649	7.991	ng	100
88) Benzo(b)fluoranthene	24.134	252	359071	18.247	ng	98
89) Benzo(k)fluoranthene	24.134	252	359071	18.235	ng	95
90) Benzo(a)pyrene	25.033	252	273925	15.144	ng	98
92) Benzo(g,h,i)perylene	30.204	276	174816	9.542	ng	96

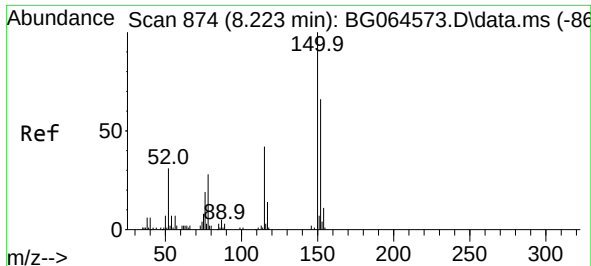
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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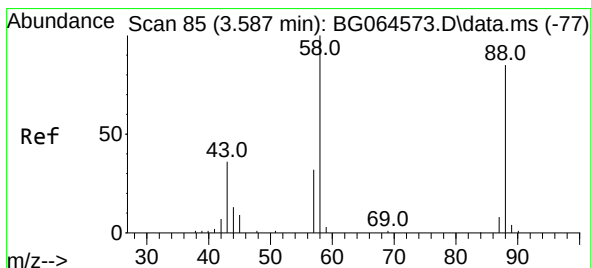
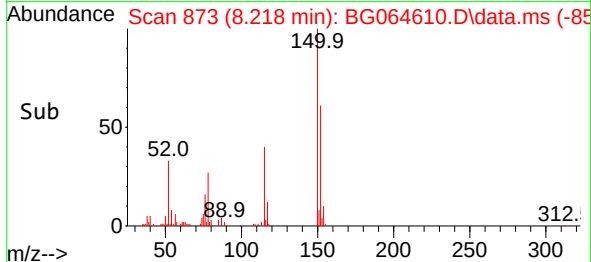
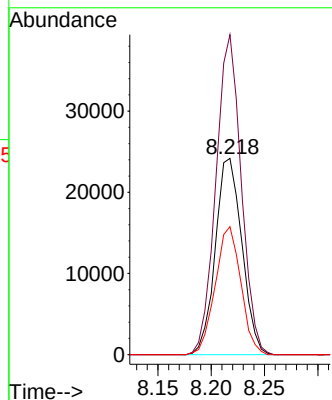
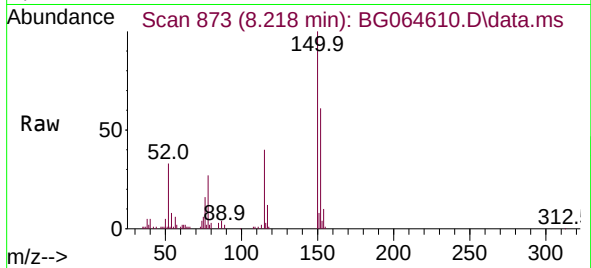




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.218 min Scan# 81
Delta R.T. -0.005 min
Lab File: BG064610.D
Acq: 28 Oct 2025 20:37

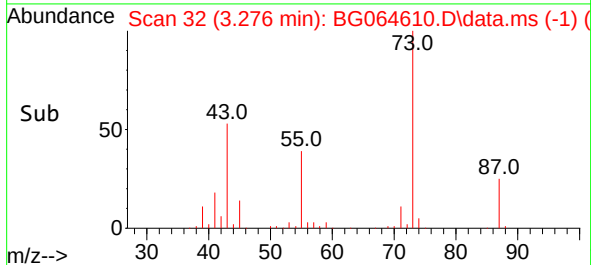
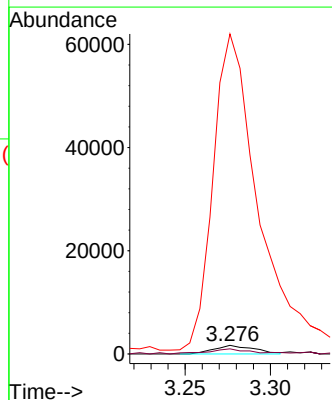
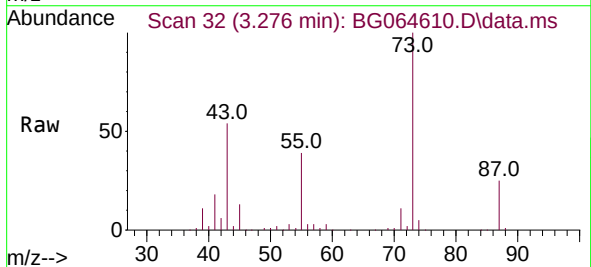
Instrument :
BNA_G
ClientSampleId :
TP-12

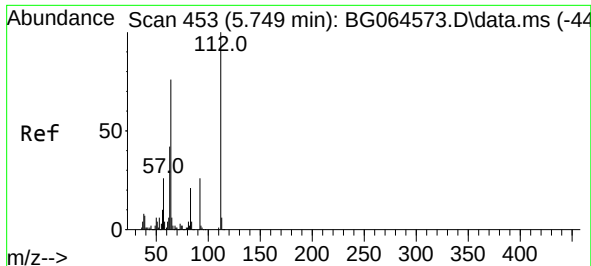
Tgt Ion:152 Resp: 41968
Ion Ratio Lower Upper
152 100
150 163.1 122.2 183.4
115 65.2 50.8 76.2



#2
1,4-Dioxane
Concen: 2.438 ng
RT: 3.276 min Scan# 32
Delta R.T. -0.311 min
Lab File: BG064610.D
Acq: 28 Oct 2025 20:37

Tgt Ion: 88 Resp: 2699
Ion Ratio Lower Upper
88 100
58 64.9 92.4 138.6#
43 4308.4 33.0 49.6#

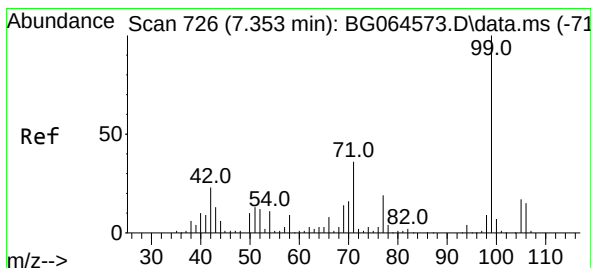
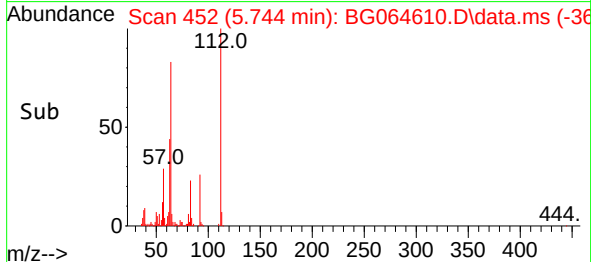
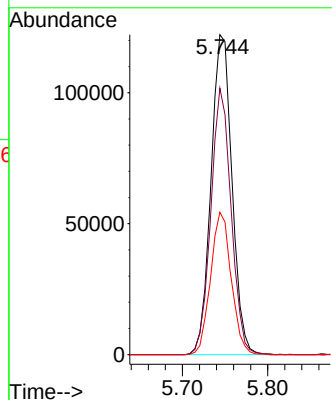
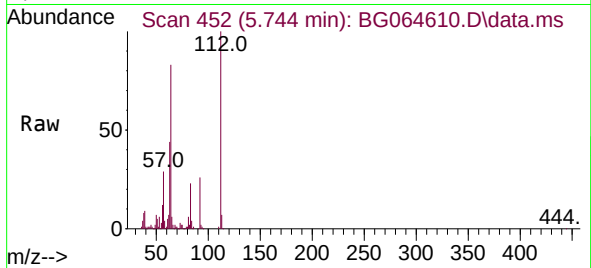




#5
2-Fluorophenol
Concen: 83.471 ng
RT: 5.744 min Scan# 41
Delta R.T. -0.005 min
Lab File: BG064610.D
Acq: 28 Oct 2025 20:37

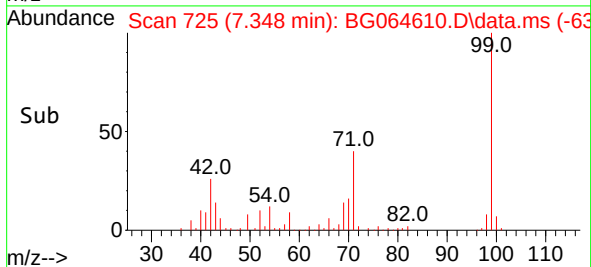
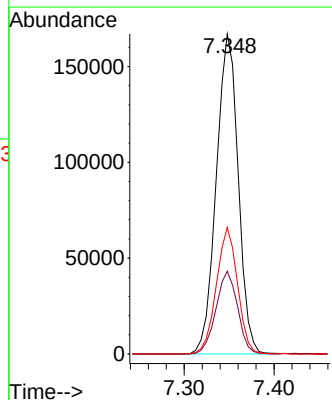
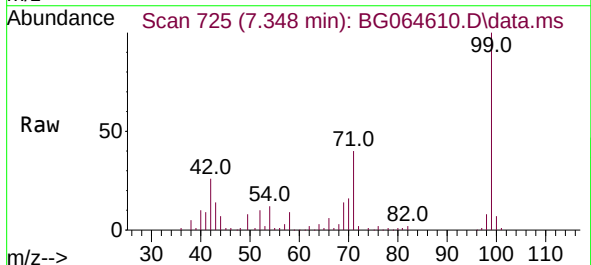
Instrument :
BNA_G
ClientSampleId :
TP-12

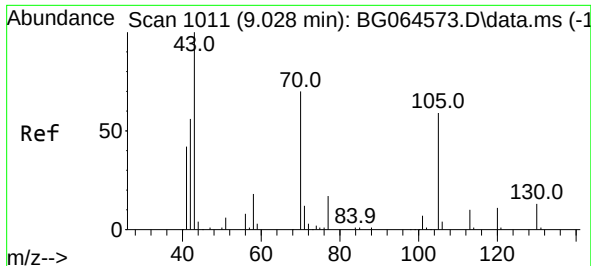
Tgt Ion:112 Resp: 208706
Ion Ratio Lower Upper
112 100
64 83.3 60.7 91.1
63 44.5 33.4 50.0



#7
Phenol-d6
Concen: 82.766 ng
RT: 7.348 min Scan# 725
Delta R.T. -0.005 min
Lab File: BG064610.D
Acq: 28 Oct 2025 20:37

Tgt Ion: 99 Resp: 283969
Ion Ratio Lower Upper
99 100
42 25.8 18.3 27.5
71 39.5 28.6 43.0

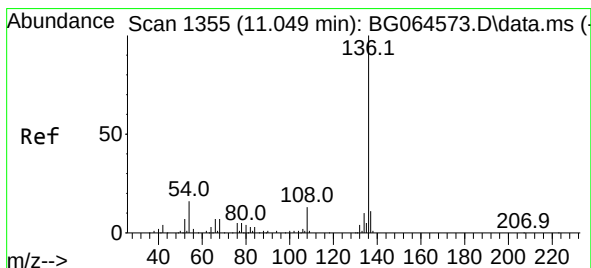
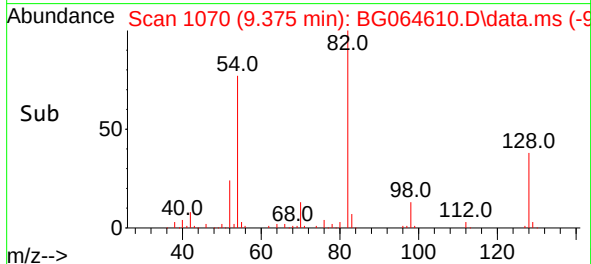
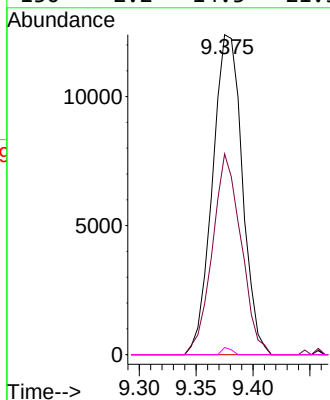
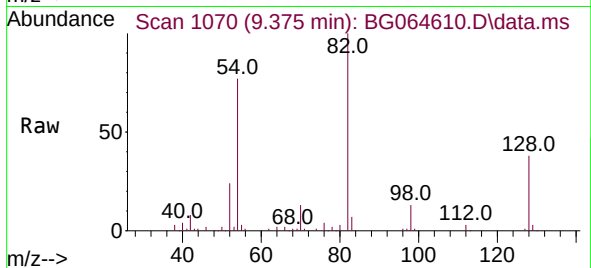




#19
n-Nitroso-di-n-propylamine
Concen: 9.523 ng
RT: 9.375 min Scan# 10
Delta R.T. 0.347 min
Lab File: BG064610.D
Acq: 28 Oct 2025 20:37

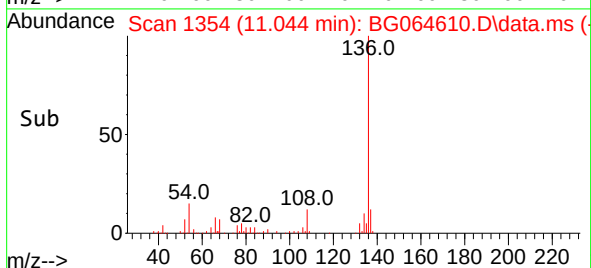
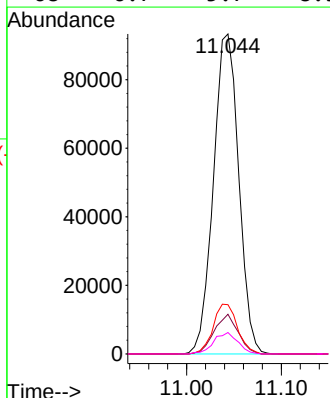
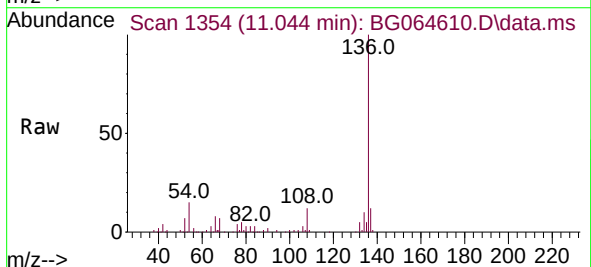
Instrument :
BNA_G
ClientSampleId :
TP-12

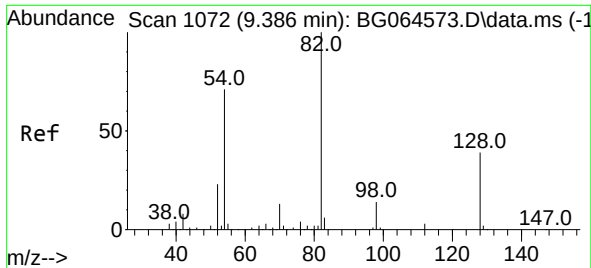
Tgt Ion:	70	Resp:	22580
Ion	Ratio	Lower	Upper
70	100		
42	62.7	65.2	97.8#
101	0.0	7.9	11.9#
130	2.2	14.3	21.5#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.044 min Scan# 1354
Delta R.T. -0.005 min
Lab File: BG064610.D
Acq: 28 Oct 2025 20:37

Tgt Ion:	136	Resp:	173020
Ion	Ratio	Lower	Upper
136	100		
137	12.4	9.2	13.8
54	15.4	12.6	19.0
68	6.7	5.7	8.5

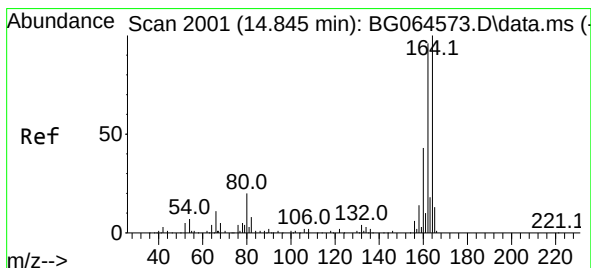
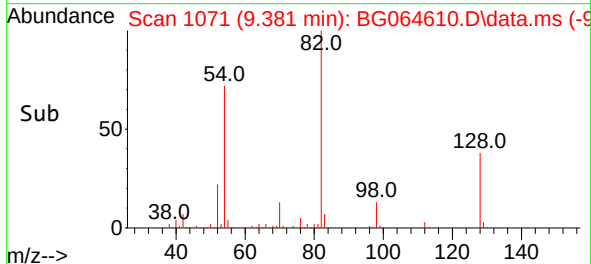
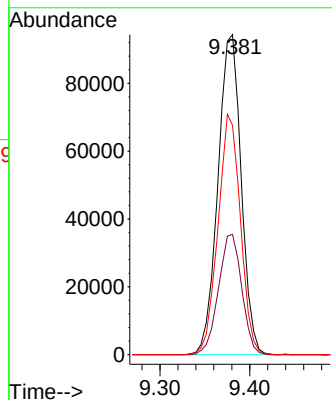
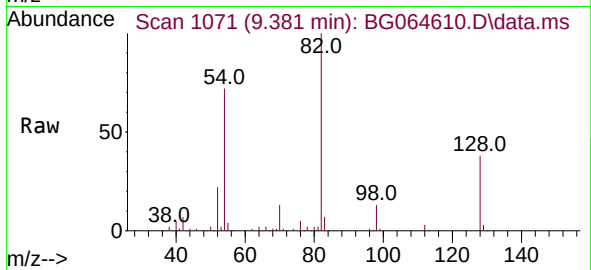




#23
Nitrobenzene-d5
Concen: 59.028 ng
RT: 9.381 min Scan# 10
Delta R.T. -0.005 min
Lab File: BG064610.D
Acq: 28 Oct 2025 20:37

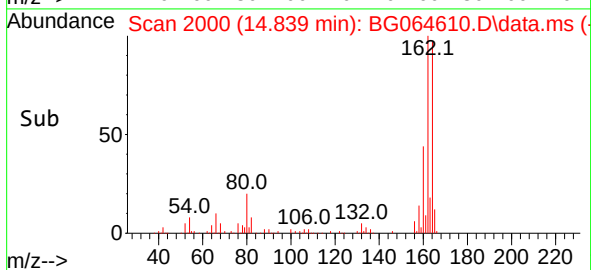
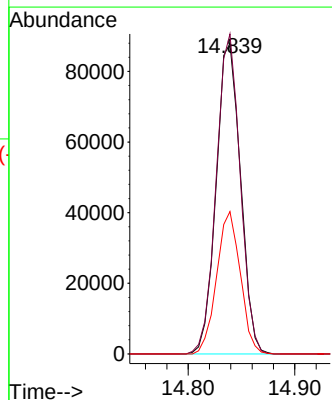
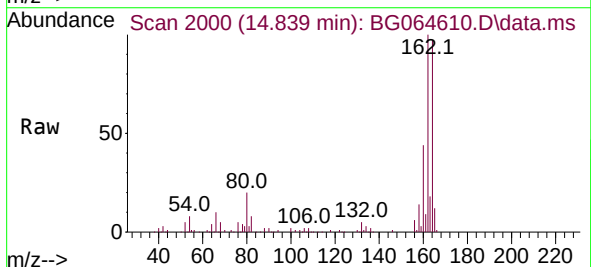
Instrument :
BNA_G
ClientSampleId :
TP-12

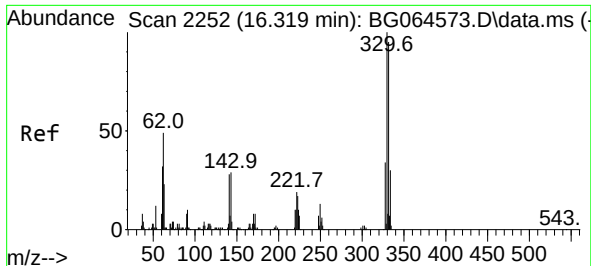
Tgt Ion: 82 Resp: 170040
Ion Ratio Lower Upper
82 100
128 37.6 31.3 46.9
54 71.6 56.6 84.8



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.839 min Scan# 2000
Delta R.T. -0.005 min
Lab File: BG064610.D
Acq: 28 Oct 2025 20:37

Tgt Ion:164 Resp: 139918
Ion Ratio Lower Upper
164 100
162 103.1 77.0 115.6
160 45.8 34.4 51.6

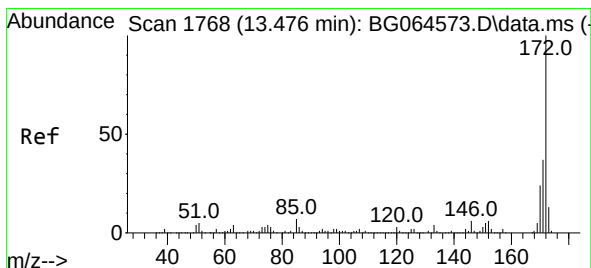
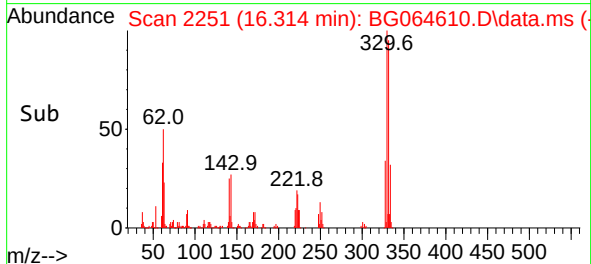
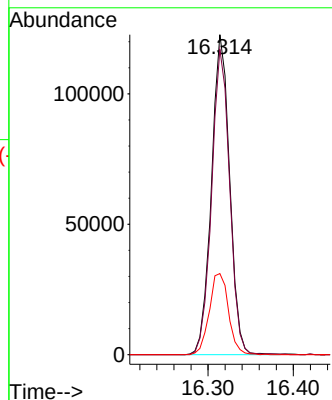
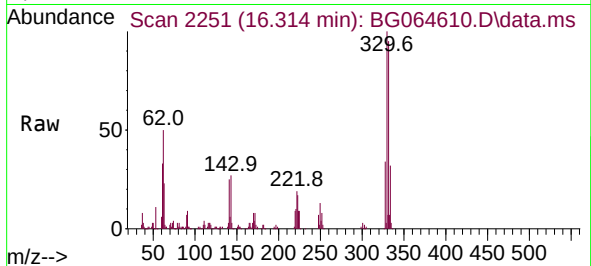




#42
2,4,6-Tribromophenol
Concen: 89.917 ng
RT: 16.314 min Scan# 21
Delta R.T. -0.005 min
Lab File: BG064610.D
Acq: 28 Oct 2025 20:37

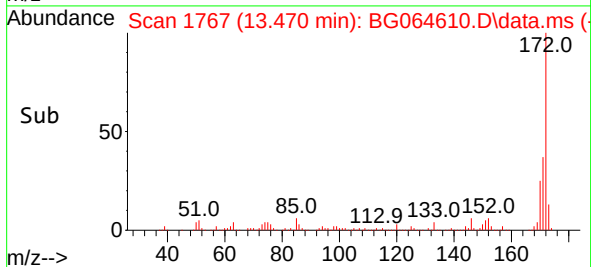
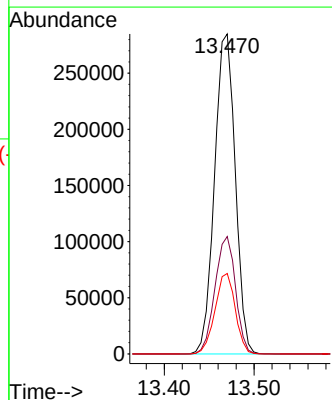
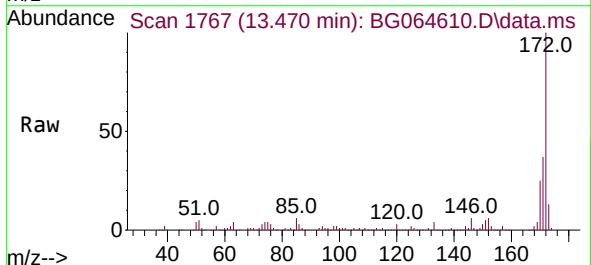
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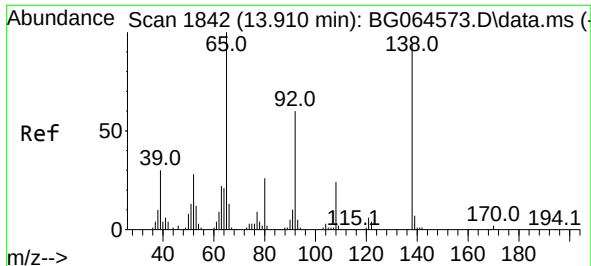
Tgt Ion:330 Resp: 181582
Ion Ratio Lower Upper
330 100
332 94.5 78.0 117.0
141 26.7 21.8 32.6



#45
2-Fluorobiphenyl
Concen: 49.692 ng
RT: 13.470 min Scan# 1767
Delta R.T. -0.005 min
Lab File: BG064610.D
Acq: 28 Oct 2025 20:37

Tgt Ion:172 Resp: 458707
Ion Ratio Lower Upper
172 100
171 36.7 29.4 44.0
170 25.1 19.1 28.7

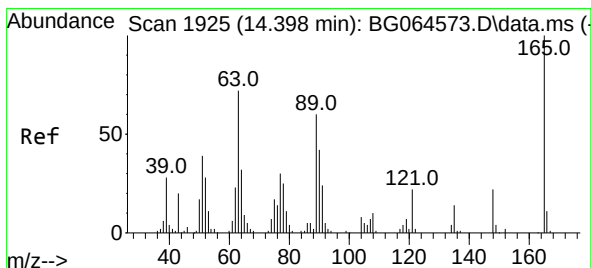
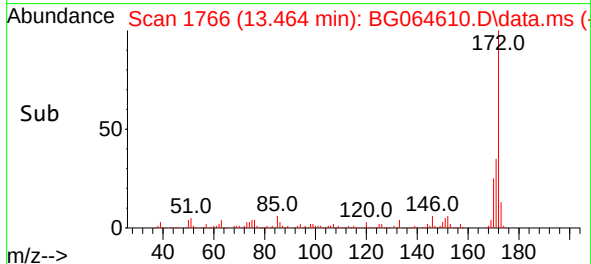
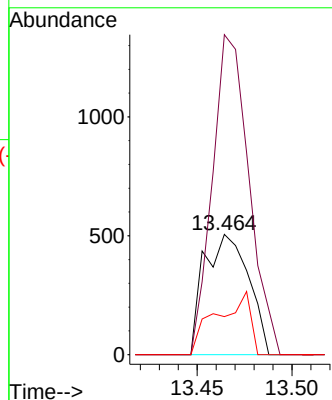
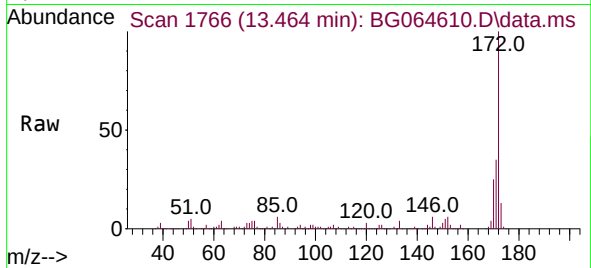




#48
2-Nitroaniline
Concen: 3.530 ng
RT: 13.464 min Scan# 11
Delta R.T. -0.446 min
Lab File: BG064610.D
Acq: 28 Oct 2025 20:37

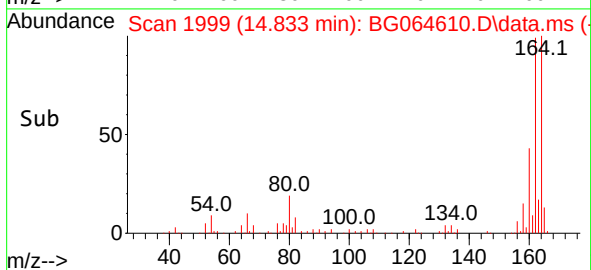
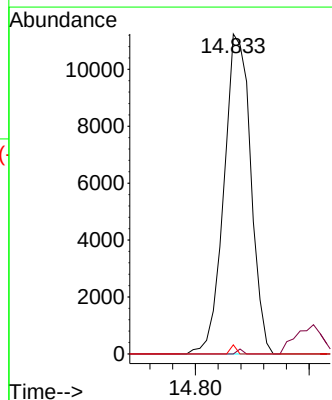
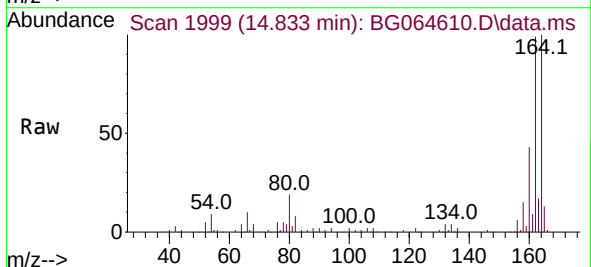
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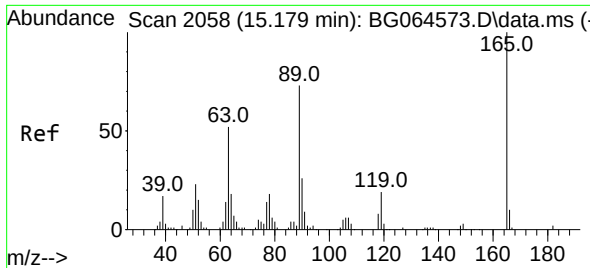
Tgt Ion: 65 Resp: 824
Ion Ratio Lower Upper
65 100
92 266.0 48.3 72.5#
138 31.6 74.9 112.3#



#51
2,6-Dinitrotoluene
Concen: 12.892 ng
RT: 14.833 min Scan# 1999
Delta R.T. 0.435 min
Lab File: BG064610.D
Acq: 28 Oct 2025 20:37

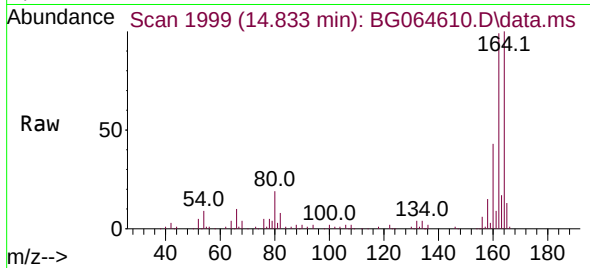
Tgt Ion:165 Resp: 18355
Ion Ratio Lower Upper
165 100
63 0.0 57.4 86.0#
89 2.8 47.8 71.8#



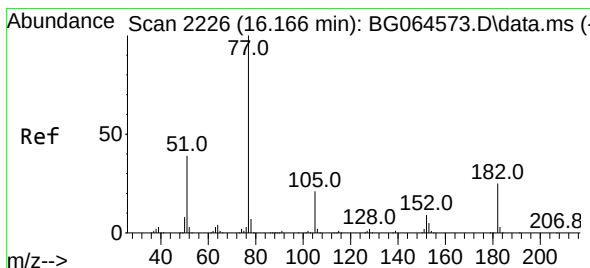
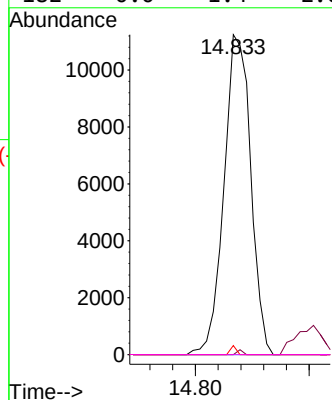
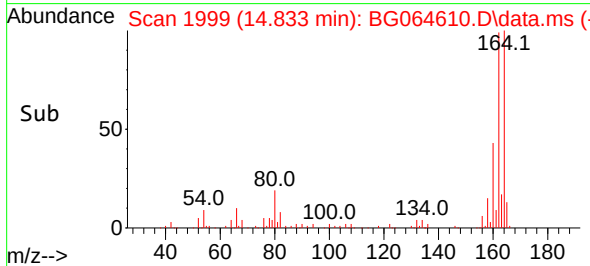


#57
2,4-Dinitrotoluene
Concen: 9.344 ng
RT: 14.833 min Scan# 19
Delta R.T. -0.346 min
Lab File: BG064610.D
Acq: 28 Oct 2025 20:37

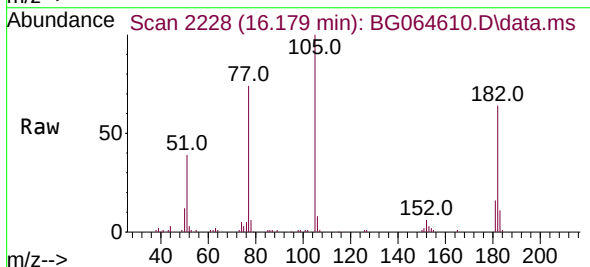
Instrument :
BNA_G
ClientSampleId :
TP-12



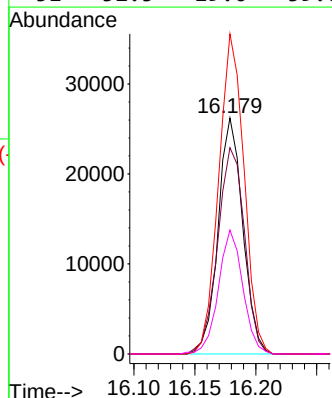
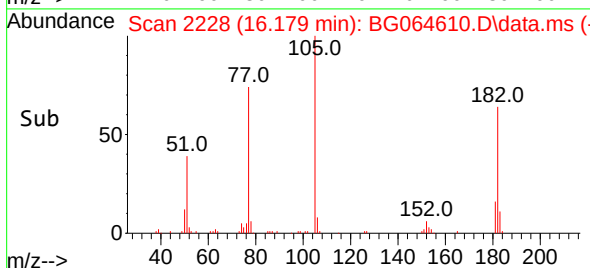
Tgt Ion:165 Resp: 18355
Ion Ratio Lower Upper
165 100
63 0.0 41.8 62.8#
89 2.8 58.1 87.1#
182 0.0 1.4 2.0#

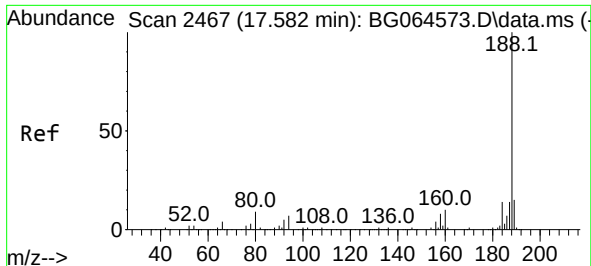


#63
Azobenzene
Concen: 3.684 ng
RT: 16.179 min Scan# 2228
Delta R.T. 0.012 min
Lab File: BG064610.D
Acq: 28 Oct 2025 20:37



Tgt Ion: 77 Resp: 36952
Ion Ratio Lower Upper
77 100
182 87.4 4.9 44.9#
105 135.7 1.3 41.3#
51 52.5 19.0 59.0

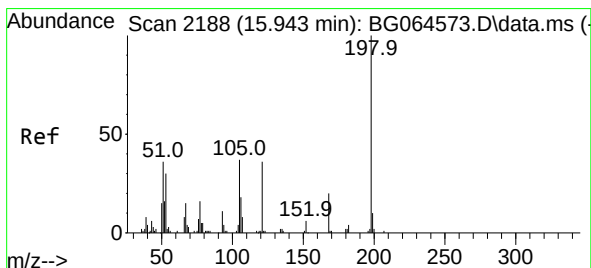
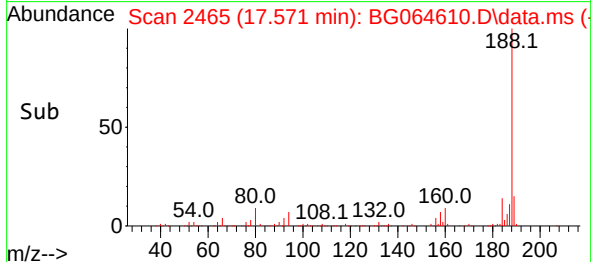
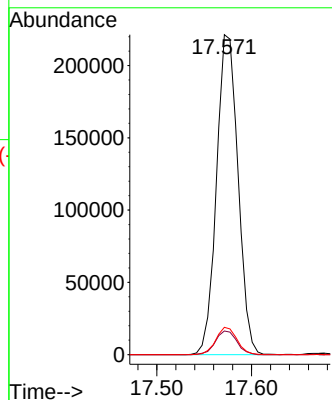
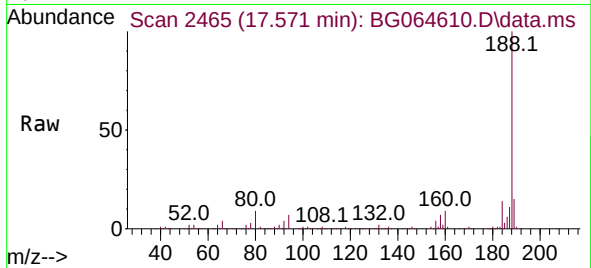




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.571 min Scan# 24
Delta R.T. -0.011 min
Lab File: BG064610.D
Acq: 28 Oct 2025 20:37

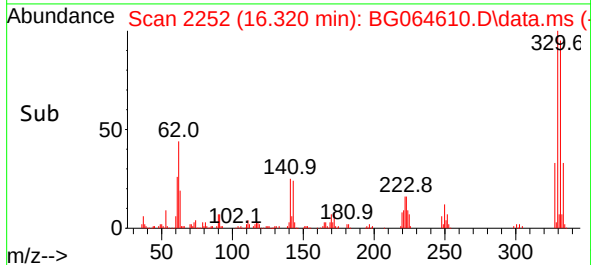
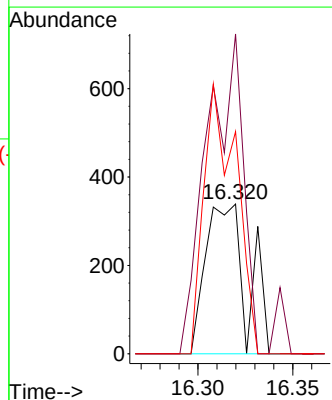
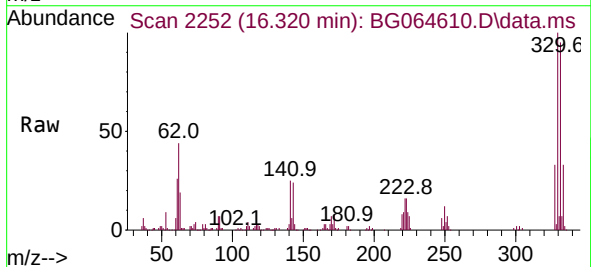
Instrument :
BNA_G
ClientSampleId :
TP-12

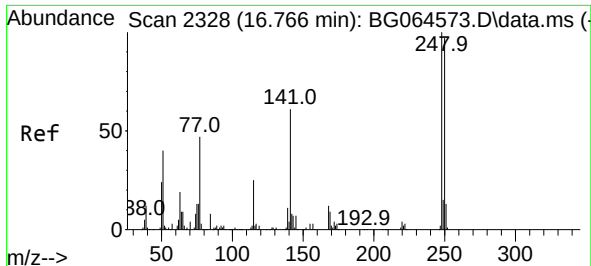
Tgt Ion:188 Resp: 348691
Ion Ratio Lower Upper
188 100
94 7.4 5.7 8.5
80 8.5 6.8 10.2



#65
4,6-Dinitro-2-methylphenol
Concen: 5.722 ng
RT: 16.320 min Scan# 2252
Delta R.T. 0.377 min
Lab File: BG064610.D
Acq: 28 Oct 2025 20:37

Tgt Ion:198 Resp: 511
Ion Ratio Lower Upper
198 100
51 213.6 24.7 64.7#
105 148.4 18.0 58.0#

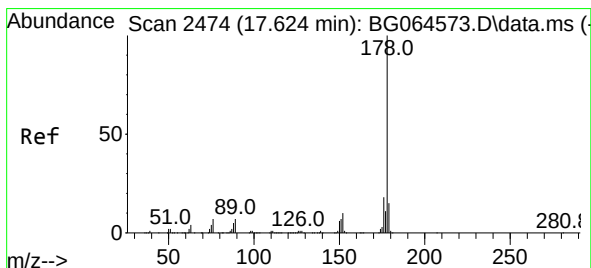
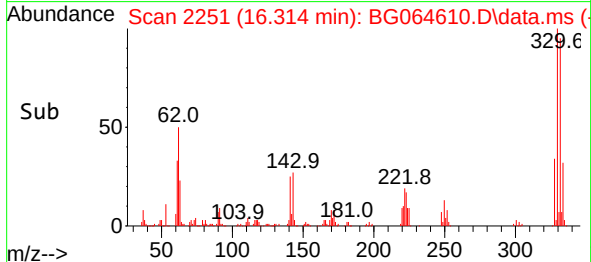
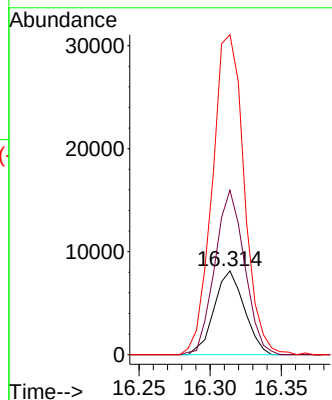
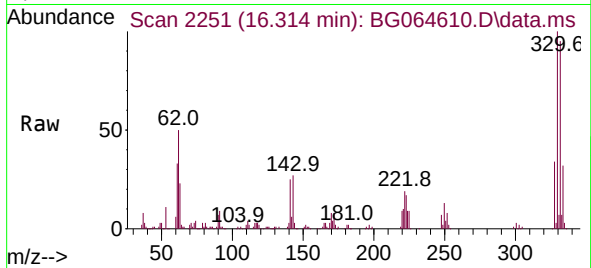




#67
4-Bromophenyl-phenylether
Concen: 2.908 ng
RT: 16.314 min Scan# 21
Delta R.T. -0.452 min
Lab File: BG064610.D
Acq: 28 Oct 2025 20:37

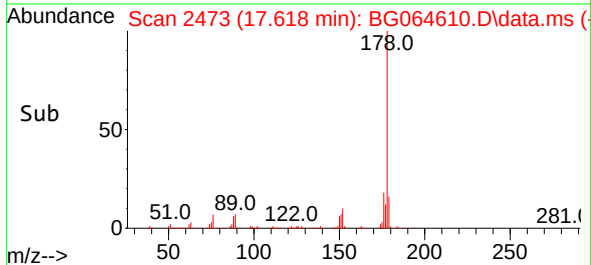
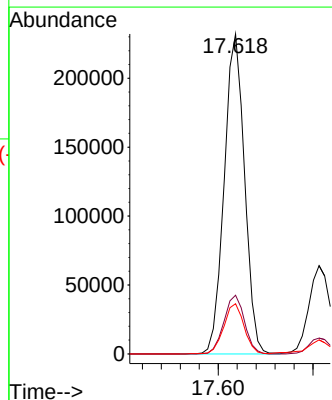
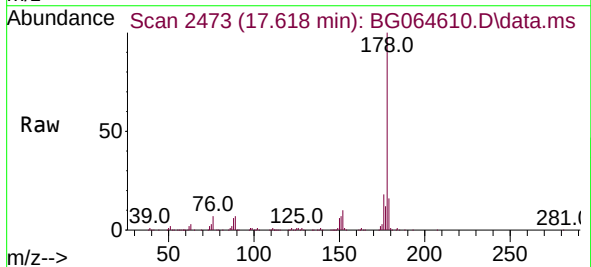
Instrument :
BNA_G
ClientSampleId :
TP-12

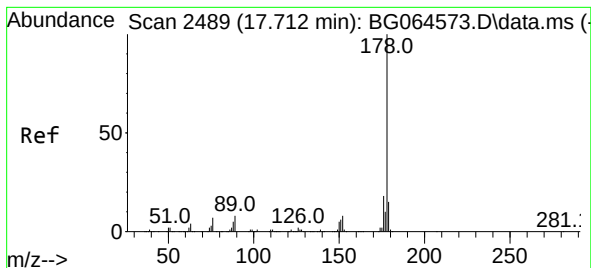
Tgt Ion:248 Resp: 12015
Ion Ratio Lower Upper
248 100
250 189.4 77.7 116.5#
141 288.8 48.6 72.8#



#71
Phenanthrene
Concen: 18.129 ng
RT: 17.618 min Scan# 2473
Delta R.T. -0.005 min
Lab File: BG064610.D
Acq: 28 Oct 2025 20:37

Tgt Ion:178 Resp: 345695
Ion Ratio Lower Upper
178 100
176 18.4 14.7 22.1
179 15.7 12.2 18.4





#72

Anthracene

Concen: 5.010 ng

RT: 17.706 min Scan# 2489

Delta R.T. -0.005 min

Lab File: BG064610.D

Acq: 28 Oct 2025 20:37

Instrument :

BNA_G

ClientSampleId :

TP-12

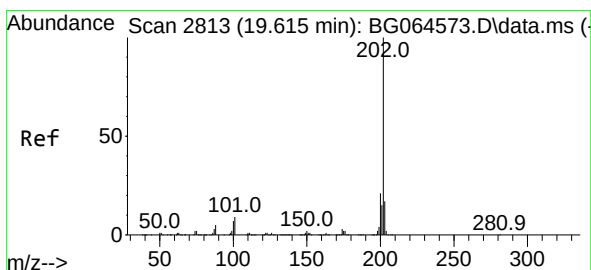
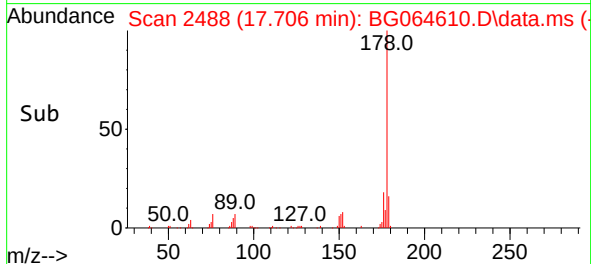
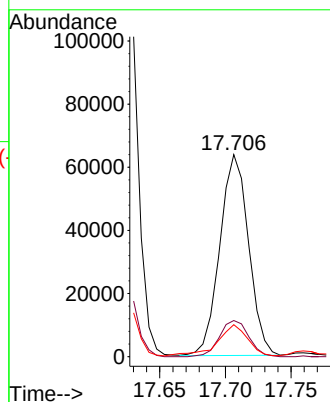
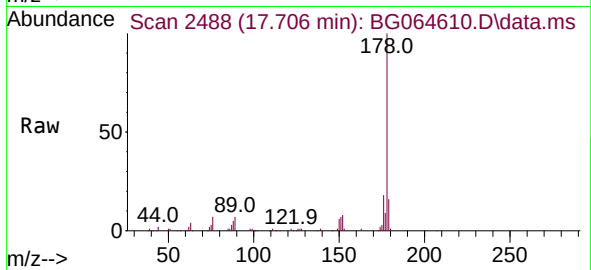
Tgt Ion:178 Resp: 97177

Ion Ratio Lower Upper

178 100

176 17.9 14.4 21.6

179 15.8 12.4 18.6



#75

Fluoranthene

Concen: 31.969 ng

RT: 19.616 min Scan# 2813

Delta R.T. 0.001 min

Lab File: BG064610.D

Acq: 28 Oct 2025 20:37

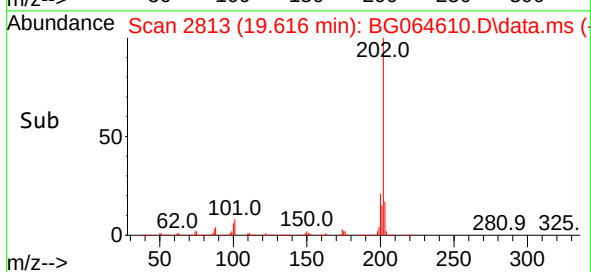
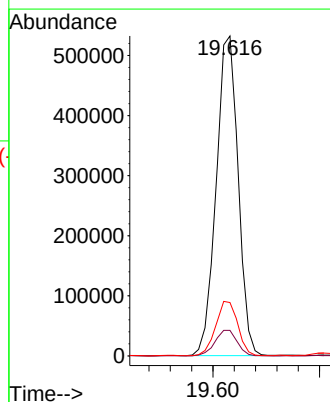
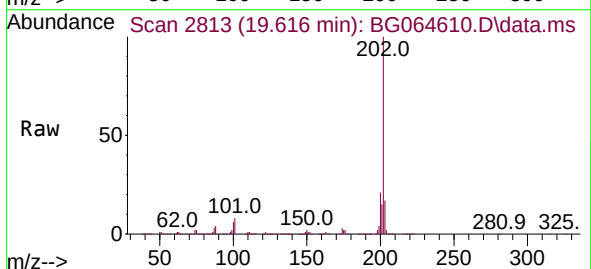
Tgt Ion:202 Resp: 763677

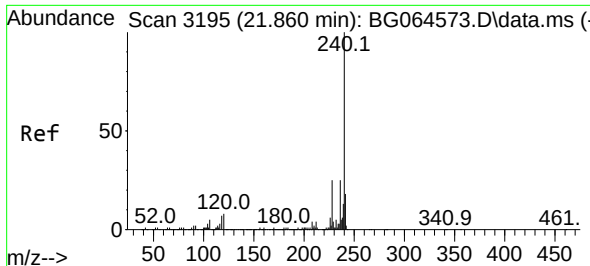
Ion Ratio Lower Upper

202 100

101 8.0 0.0 28.7

203 16.7 0.0 37.0

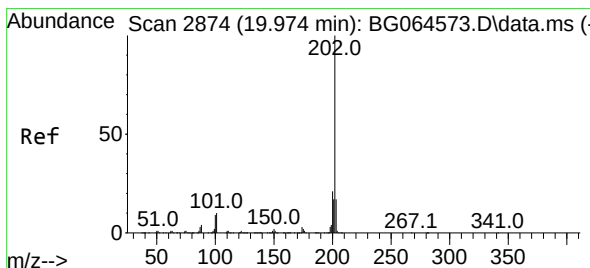
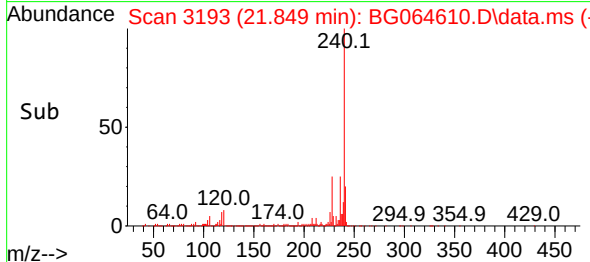
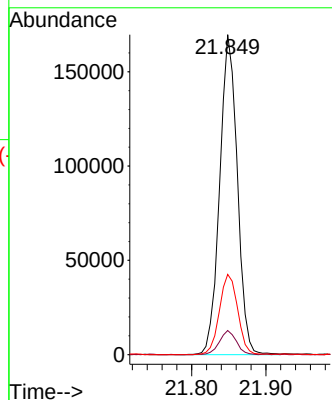
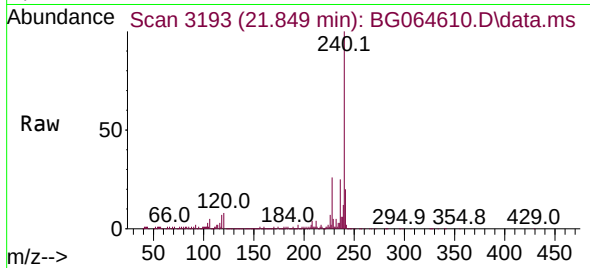




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.849 min Scan# 3193
Delta R.T. -0.011 min
Lab File: BG064610.D
Acq: 28 Oct 2025 20:37

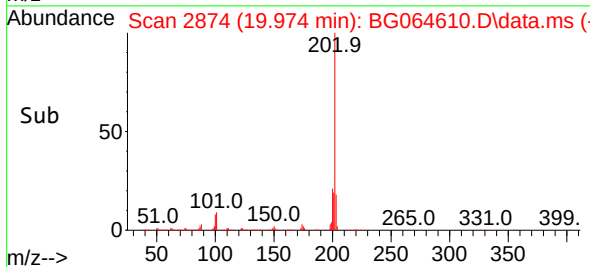
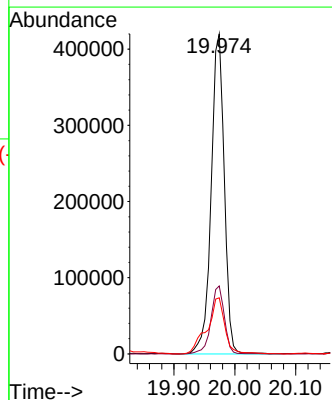
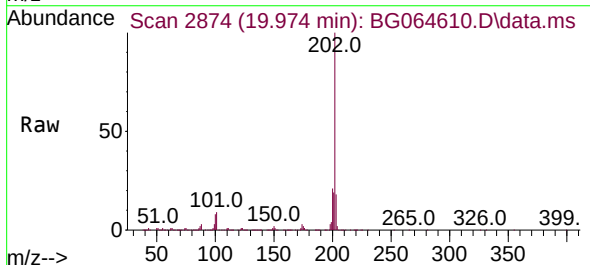
Instrument :
BNA_G
ClientSampleId :
TP-12

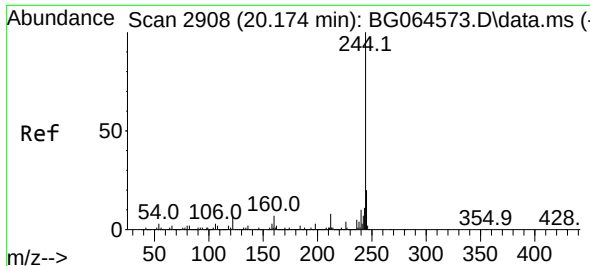
Tgt Ion:240 Resp: 279745
Ion Ratio Lower Upper
240 100
120 7.5 6.5 9.7
236 25.1 20.2 30.2



#78
Pyrene
Concen: 34.437 ng
RT: 19.974 min Scan# 2874
Delta R.T. 0.001 min
Lab File: BG064610.D
Acq: 28 Oct 2025 20:37

Tgt Ion:202 Resp: 629417
Ion Ratio Lower Upper
202 100
200 21.2 17.0 25.4
203 17.5 13.8 20.6

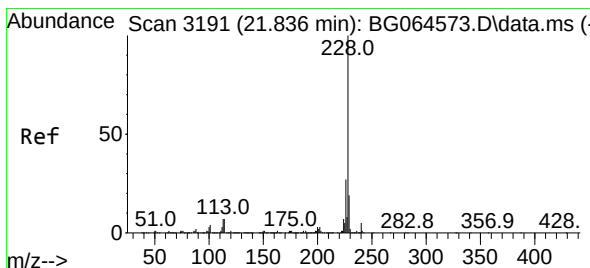
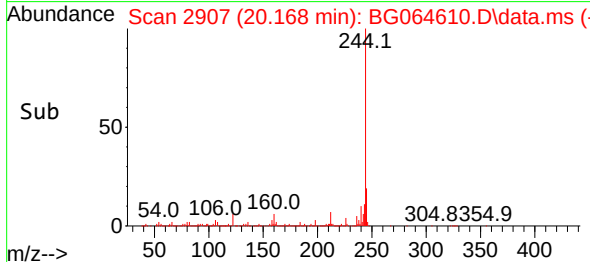
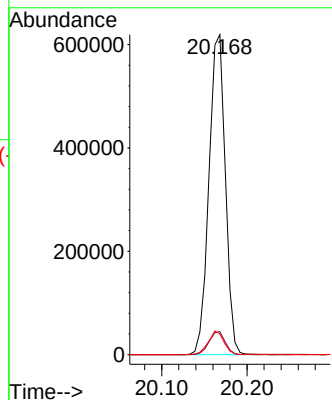
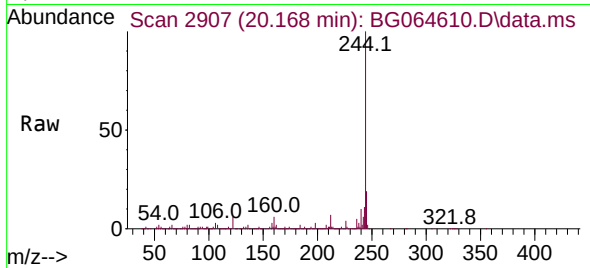




#79
 Terphenyl-d14
 Concen: 55.743 ng
 RT: 20.168 min Scan# 2907
 Delta R.T. -0.005 min
 Lab File: BG064610.D
 Acq: 28 Oct 2025 20:37

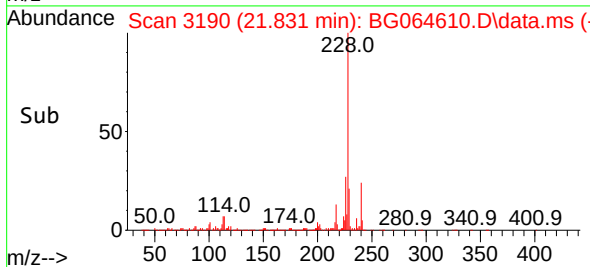
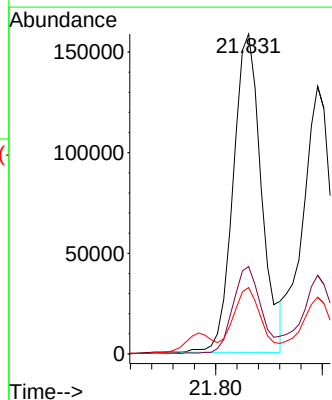
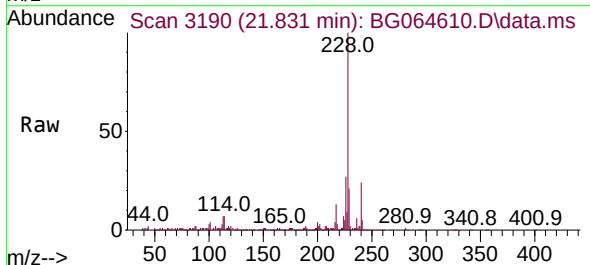
Instrument :
 BNA_G
 ClientSampleId :
 TP-12

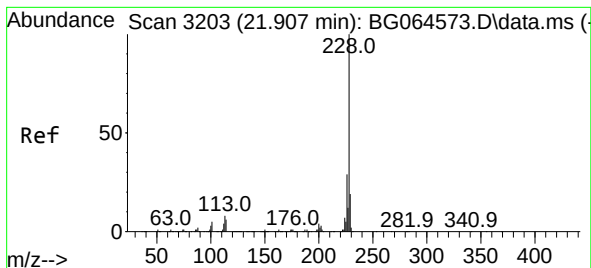
Tgt Ion:244 Resp: 826307
 Ion Ratio Lower Upper
 244 100
 212 7.2 6.1 9.1
 122 6.5 5.6 8.4



#81
 Benzo(a)anthracene
 Concen: 15.689 ng
 RT: 21.831 min Scan# 3190
 Delta R.T. -0.005 min
 Lab File: BG064610.D
 Acq: 28 Oct 2025 20:37

Tgt Ion:228 Resp: 291015
 Ion Ratio Lower Upper
 228 100
 226 27.3 21.9 32.9
 229 20.7 15.6 23.4





#83

Chrysene

Concen: 14.057 ng

RT: 21.896 min Scan# 31

Delta R.T. -0.011 min

Lab File: BG064610.D

Acq: 28 Oct 2025 20:37

Instrument :

BNA_G

ClientSampleId :

TP-12

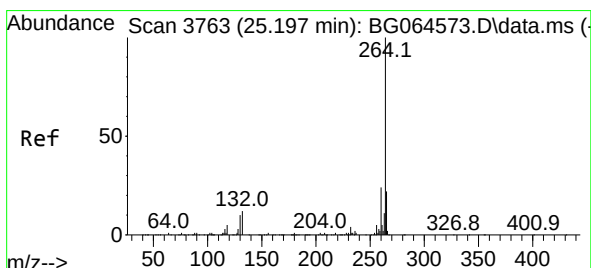
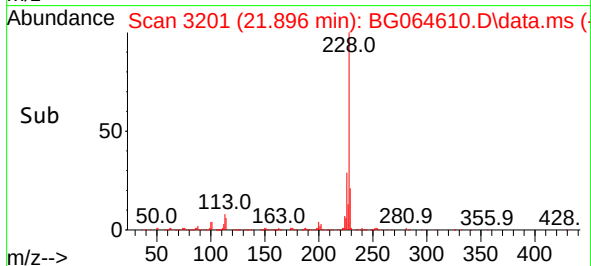
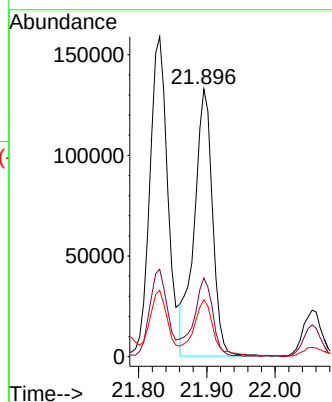
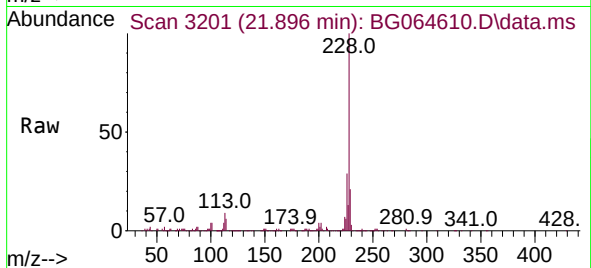
Tgt Ion:228 Resp: 248103

Ion Ratio Lower Upper

228 100

226 29.4 23.3 34.9

229 21.2 15.2 22.8



#86

Perylene-d12

Concen: 20.000 ng

RT: 25.192 min Scan# 3762

Delta R.T. -0.005 min

Lab File: BG064610.D

Acq: 28 Oct 2025 20:37

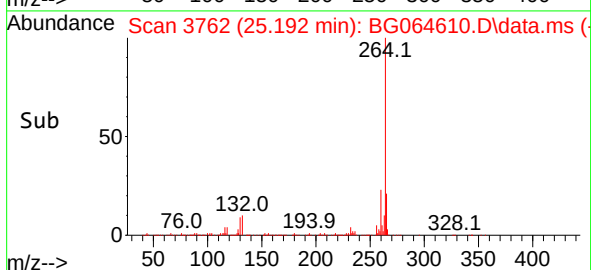
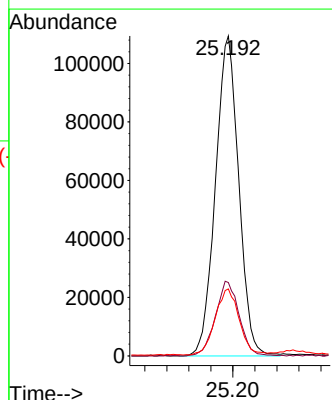
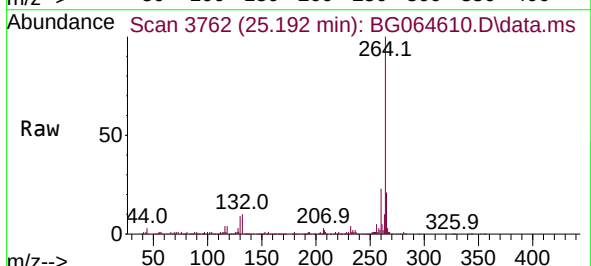
Tgt Ion:264 Resp: 320908

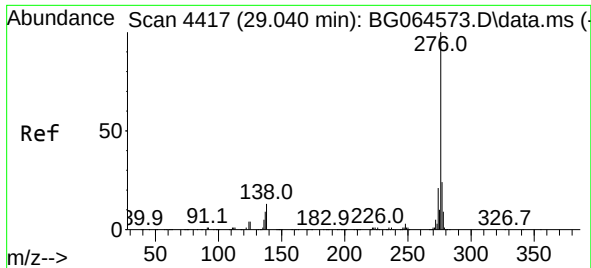
Ion Ratio Lower Upper

264 100

260 22.9 19.0 28.4

265 20.9 17.6 26.4

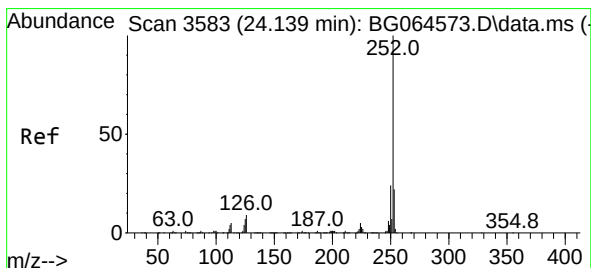
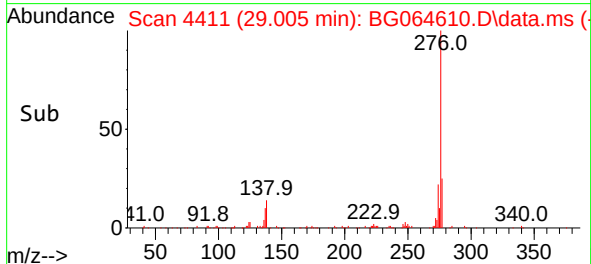
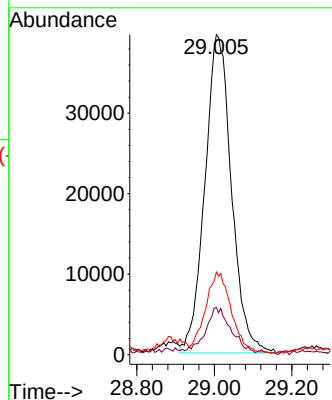
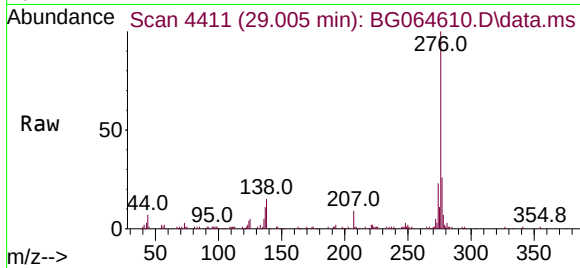




#87
 Indeno(1,2,3-cd)pyrene
 Concen: 7.991 ng
 RT: 29.005 min Scan# 4417
 Delta R.T. -0.035 min
 Lab File: BG064610.D
 Acq: 28 Oct 2025 20:37

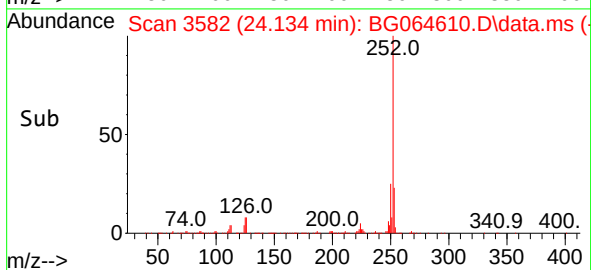
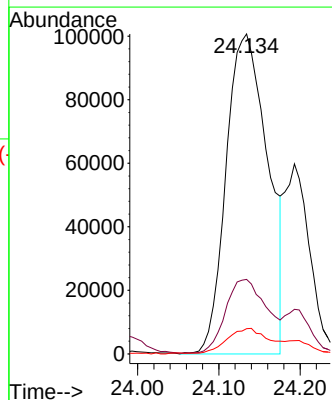
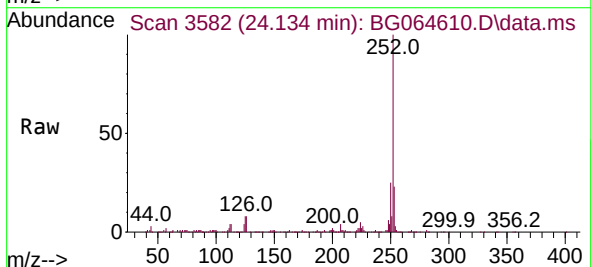
Instrument :
 BNA_G
 ClientSampleId :
 TP-12

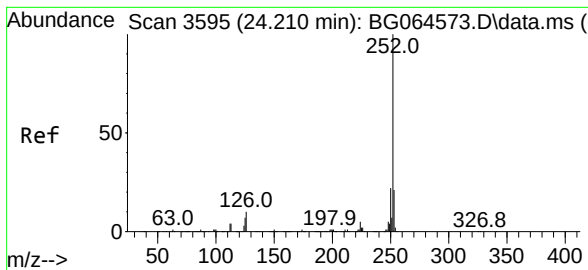
Tgt Ion:276 Resp: 188649
 Ion Ratio Lower Upper
 276 100
 138 13.6 10.8 16.2
 277 25.0 20.1 30.1



#88
 Benzo(b)fluoranthene
 Concen: 18.247 ng
 RT: 24.134 min Scan# 3582
 Delta R.T. -0.005 min
 Lab File: BG064610.D
 Acq: 28 Oct 2025 20:37

Tgt Ion:252 Resp: 359071
 Ion Ratio Lower Upper
 252 100
 253 23.3 17.8 26.8
 125 7.9 5.6 8.4





#89

Benzo(k)fluoranthene

Concen: 18.235 ng

RT: 24.134 min Scan# 3582

Delta R.T. -0.076 min

Lab File: BG064610.D

Acq: 28 Oct 2025 20:37

Instrument :

BNA_G

ClientSampleId :

TP-12

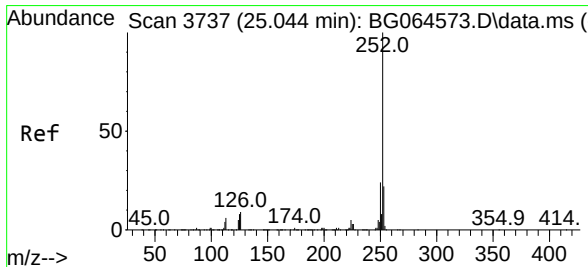
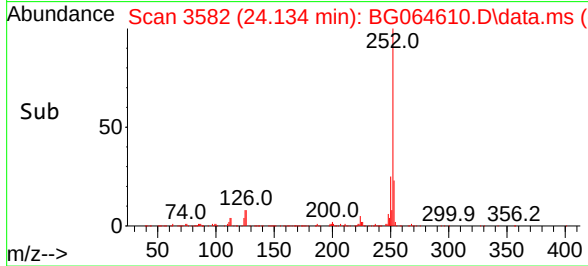
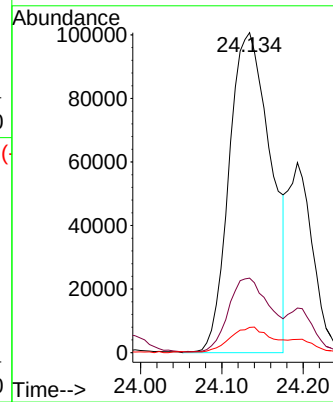
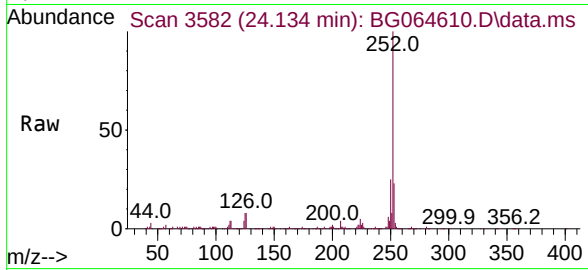
Tgt Ion:252 Resp: 359071

Ion Ratio Lower Upper

252 100

253 23.3 16.8 25.2

125 7.9 5.4 8.0



#90

Benzo(a)pyrene

Concen: 15.144 ng

RT: 25.033 min Scan# 3735

Delta R.T. -0.011 min

Lab File: BG064610.D

Acq: 28 Oct 2025 20:37

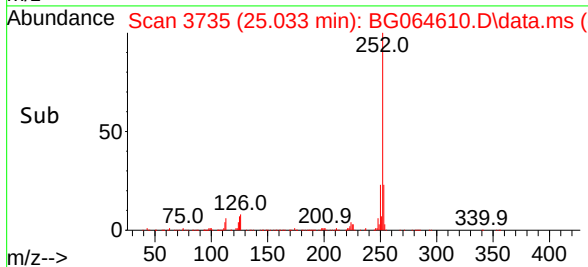
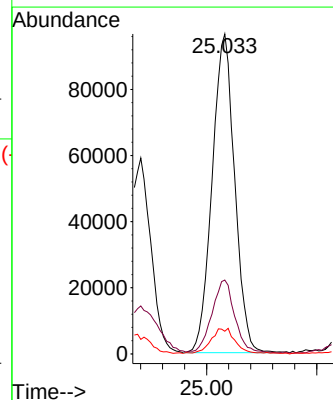
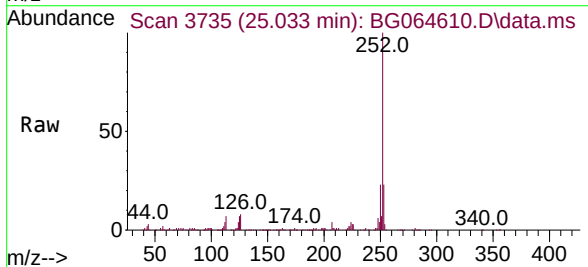
Tgt Ion:252 Resp: 273925

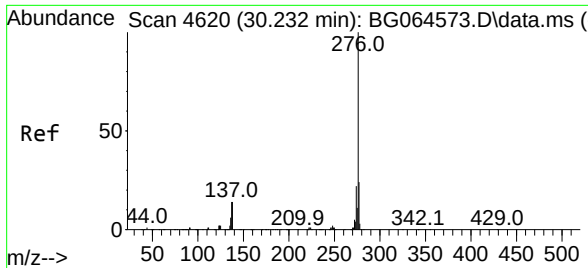
Ion Ratio Lower Upper

252 100

253 23.1 17.6 26.4

125 7.1 6.1 9.1





#92
 Benzo(g,h,i)perylene
 Concen: 9.542 ng
 RT: 30.204 min Scan# 4615
 Delta R.T. -0.029 min
 Lab File: BG064610.D
 Acq: 28 Oct 2025 20:37

Instrument :
 BNA_G
 ClientSampleId :
 TP-12

Tgt Ion:276	Resp:	174816
Ion	Ratio	Lower Upper
276	100	
277	22.3	19.1 28.7
138	16.2	11.3 16.9

