

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG102925\
 Data File : BG064629.D
 Acq On : 29 Oct 2025 18:56
 Operator : RC/JU
 Sample : Q3468-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 MW-06

Quant Time: Oct 30 04:58:25 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)

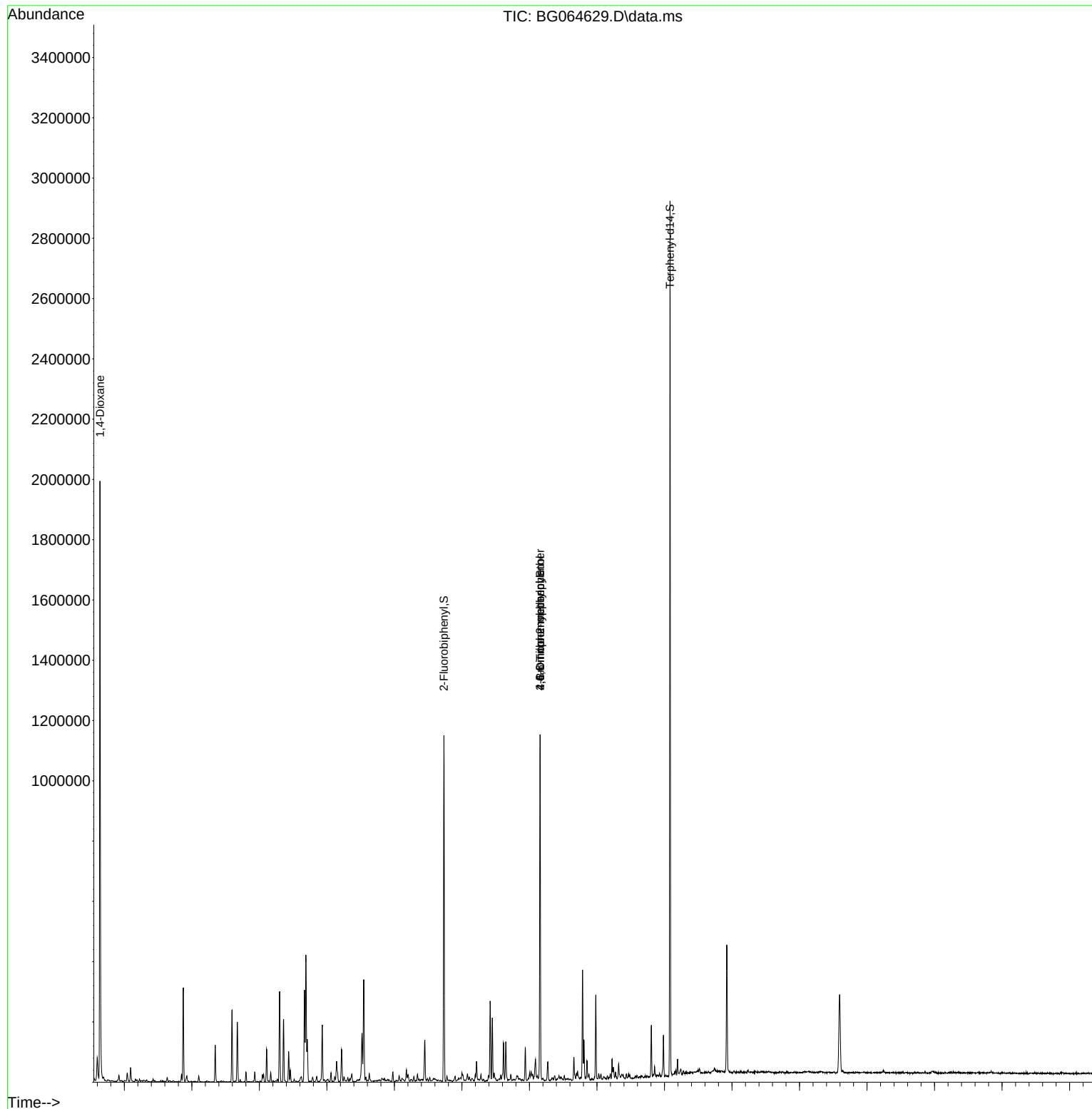
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.214	152	29669	20.000	ng	0.00
21) Naphthalene-d8	11.040	136	117287	20.000	ng	-0.01
39) Acenaphthene-d10	14.836	164	94541	20.000	ng	0.00
64) Phenanthrene-d10	17.574	188	229494	20.000	ng	0.00
76) Chrysene-d12	21.845	240	284022	20.000	ng	-0.02
86) Perylene-d12	25.188	264	312536	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.746	112	119186	67.428	ng	0.00
7) Phenol-d6	7.344	99	99502	41.023	ng	-0.01
23) Nitrobenzene-d5	9.377	82	235280	120.487	ng	-0.01
42) 2,4,6-Tribromophenol	16.316	330	237643	174.160	ng	0.00
45) 2-Fluorobiphenyl	13.467	172	594168	95.261	ng	-0.01
79) Terphenyl-d14	20.165	244	1447151	96.155	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.279	88	15062	19.247	ng	# 1
18) Hexachloroethane	9.336	117	24688	32.491	ng	# 1
19) n-Nitroso-di-n-propyla...	9.377	70	32383	19.318	ng	# 72
24) Nitrobenzene	9.419	77	5374	2.530	ng	# 3
31) Naphthalene	11.093	128	245262	37.716	ng	99
32) Benzoic acid	10.235	122	558	7.299	ng	# 28
33) 4-Chloroaniline	11.093	127	32107	12.703	ng	# 28
37) 2-Methylnaphthalene	12.685	142	11119	2.329	ng	90
38) 1-Methylnaphthalene	12.685	142	11119	2.367	ng	83
48) 2-Nitroaniline	13.907	65	200	3.334	ng	# 10
51) 2,6-Dinitrotoluene	14.436	165	1100	4.053	ng	# 30
52) Acenaphthene	14.900	154	76013	13.903	ng	99
55) Dibenzofuran	15.235	168	79121	8.951	ng	98
56) 4-Nitrophenol	15.229	139	28906	25.078	ng	# 1
57) 2,4-Dinitrotoluene	15.176	165	521	3.315	ng	# 29
58) Fluorene	15.876	166	48529	7.030	ng	95
65) 4,6-Dinitro-2-methylph...	16.316	198	471	5.840	ng	91
67) 4-Bromophenyl-phenylether	16.316	248	15574	5.727	ng	# 1
71) Phenanthrene	17.615	178	75579	6.022	ng	98
72) Anthracene	17.703	178	43317	3.393	ng	98
73) Carbazole	17.967	167	184979	16.431	ng	96
75) Fluoranthene	19.612	202	107055	6.809	ng	99
78) Pyrene	19.971	202	85251	4.594	ng	96

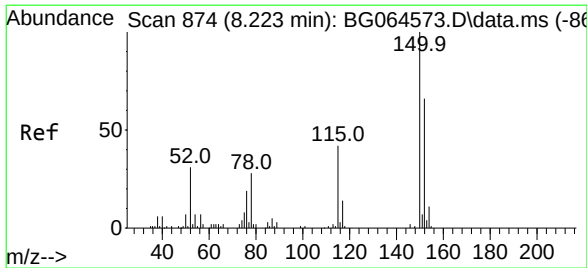
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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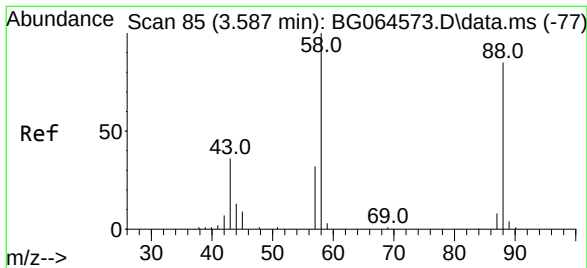
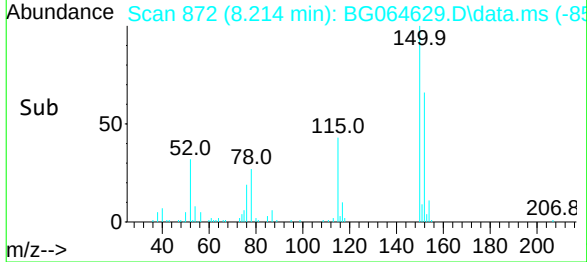
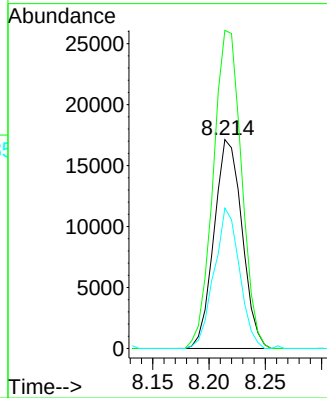
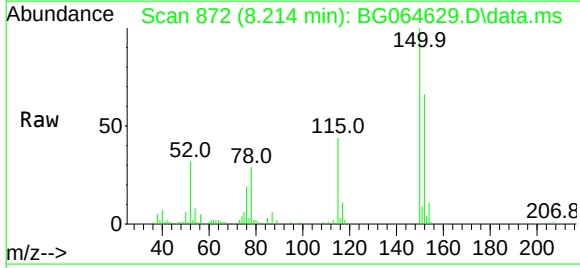




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.214 min Scan# 87
Delta R.T. -0.007 min
Lab File: BG064629.D
Acq: 29 Oct 2025 18:56

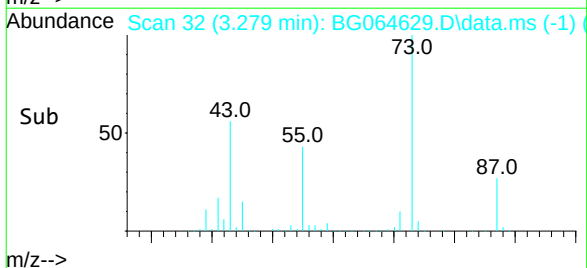
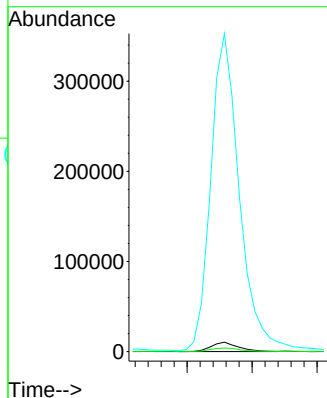
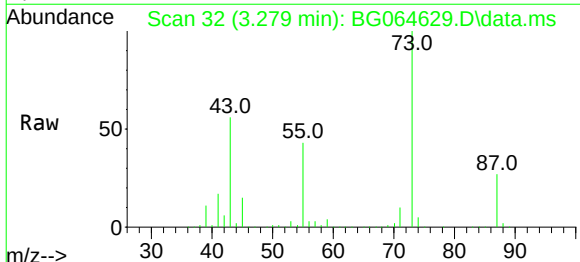
Instrument :
BNA_G
ClientSampleId :
MW-06

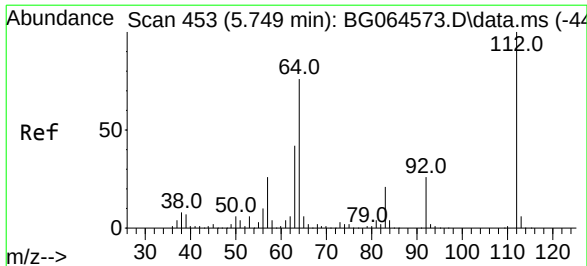
Tgt Ion:152 Resp: 29669
Ion Ratio Lower Upper
152 100
150 152.2 122.2 183.4
115 67.2 50.8 76.2



#2
1,4-Dioxane
Concen: 19.247 ng
RT: 3.279 min Scan# 32
Delta R.T. -0.312 min
Lab File: BG064629.D
Acq: 29 Oct 2025 18:56

Tgt Ion: 88 Resp: 15062
Ion Ratio Lower Upper
88 100
58 44.3 92.4 138.6#
43 3587.4 33.0 49.6#

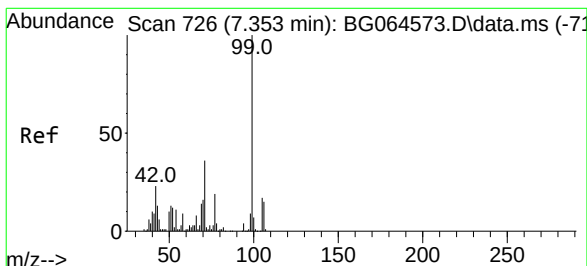
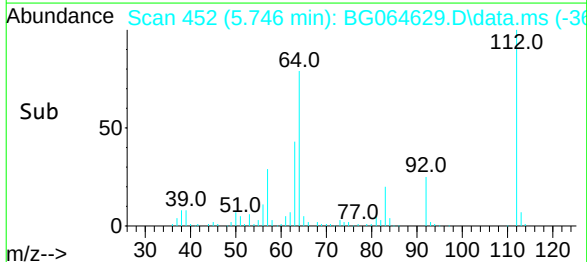
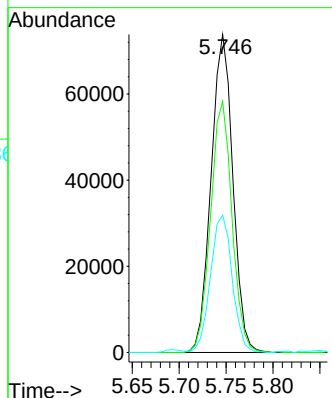
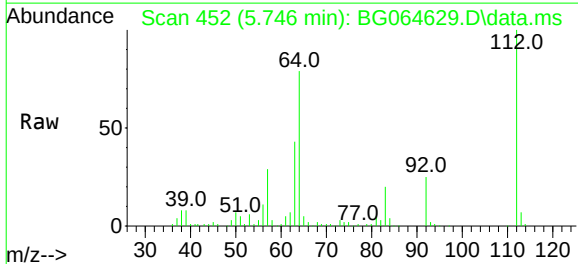




#5
2-Fluorophenol
Concen: 67.428 ng
RT: 5.746 min Scan# 45
Delta R.T. -0.001 min
Lab File: BG064629.D
Acq: 29 Oct 2025 18:56

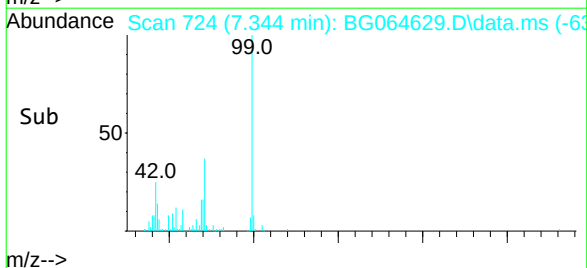
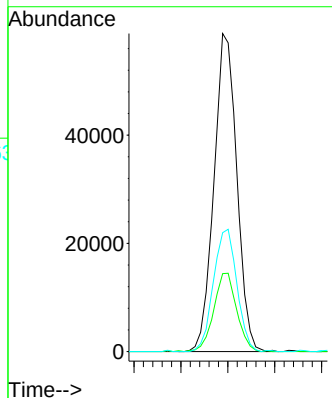
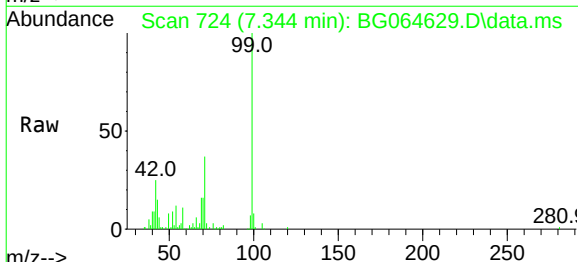
Instrument :
BNA_G
ClientSampleId :
MW-06

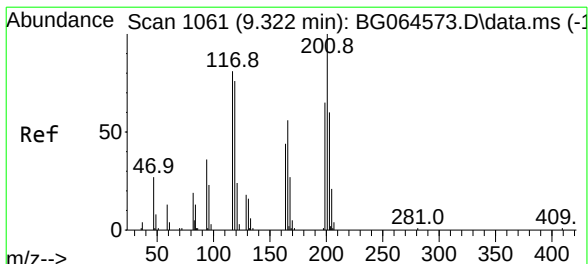
Tgt Ion:112 Resp: 119186
Ion Ratio Lower Upper
112 100
64 79.0 60.7 91.1
63 43.2 33.4 50.0



#7
Phenol-d6
Concen: 41.023 ng
RT: 7.344 min Scan# 724
Delta R.T. -0.012 min
Lab File: BG064629.D
Acq: 29 Oct 2025 18:56

Tgt Ion: 99 Resp: 99502
Ion Ratio Lower Upper
99 100
42 24.5 18.3 27.5
71 37.4 28.6 43.0



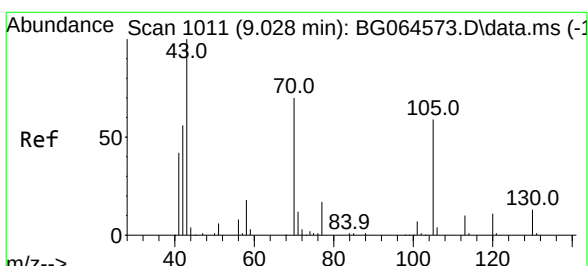
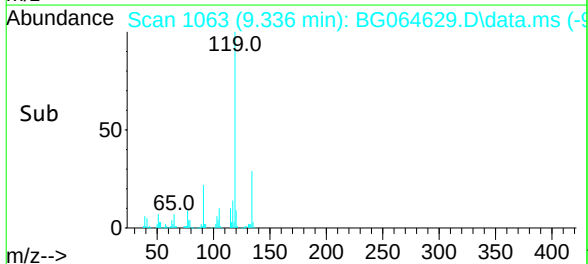
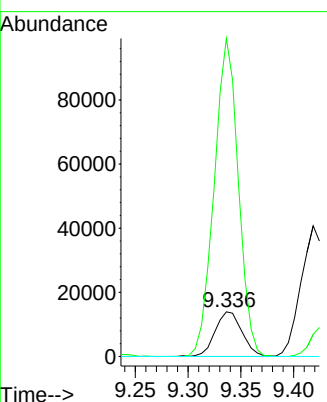
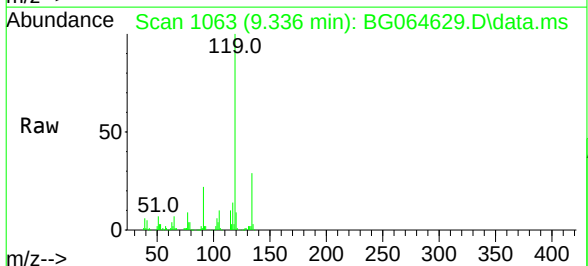


#18
Hexachloroethane
Concen: 32.491 ng
RT: 9.336 min Scan# 1061
Delta R.T. 0.011 min
Lab File: BG064629.D
Acq: 29 Oct 2025 18:56

Instrument :
BNA_G
ClientSampleId :
MW-06

Tgt Ion: 117 Resp: 24688

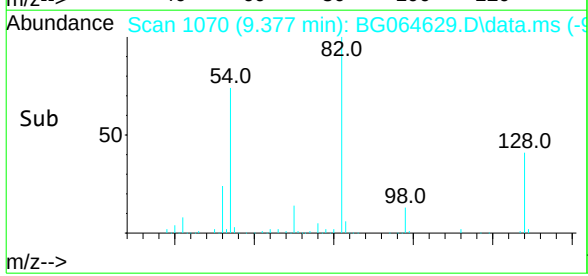
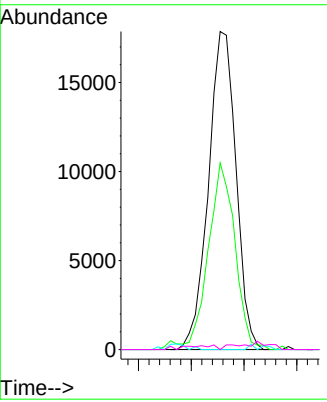
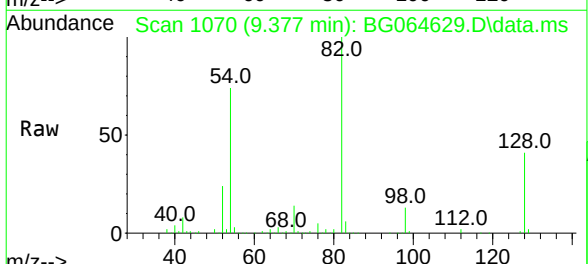
Ion	Ratio	Lower	Upper
117	100		
119	712.2	75.4	113.2#
201	0.0	99.2	148.8#

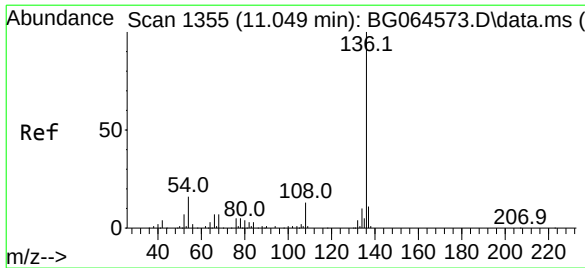


#19
n-Nitroso-di-n-propylamine
Concen: 19.318 ng
RT: 9.377 min Scan# 1070
Delta R.T. 0.346 min
Lab File: BG064629.D
Acq: 29 Oct 2025 18:56

Tgt Ion: 70 Resp: 32383

Ion	Ratio	Lower	Upper
70	100		
42	58.7	65.2	97.8#
101	0.0	7.9	11.9#
130	0.0	14.3	21.5#

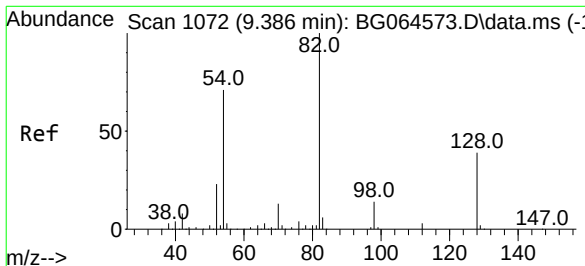
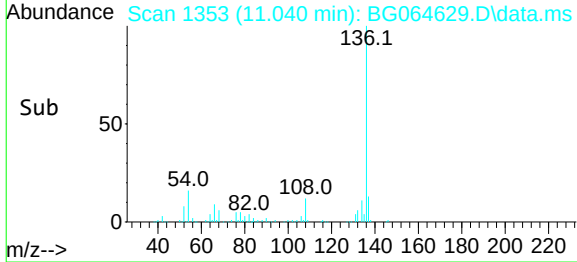
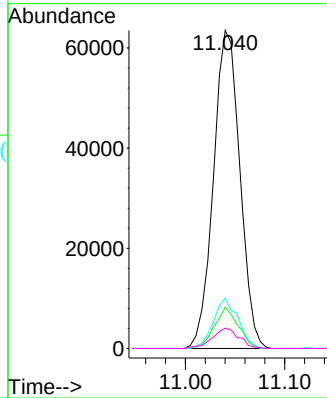
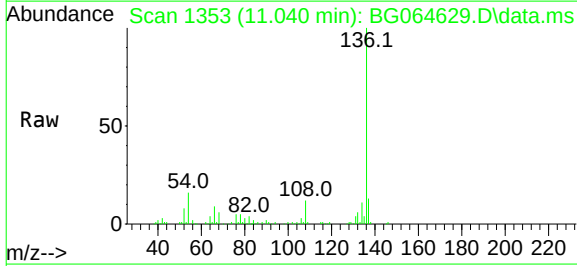




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.040 min Scan# 1355
Delta R.T. -0.012 min
Lab File: BG064629.D
Acq: 29 Oct 2025 18:56

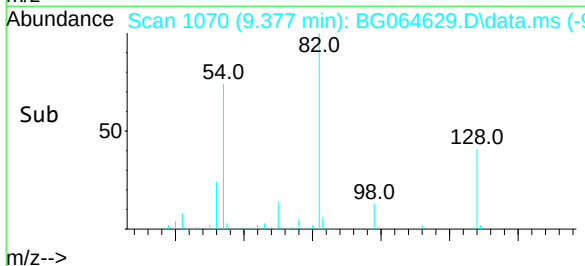
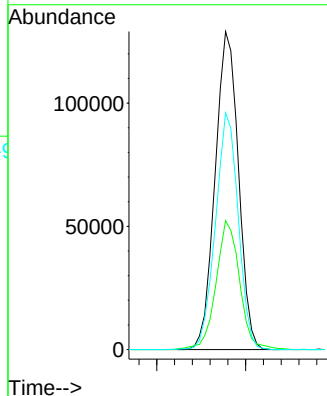
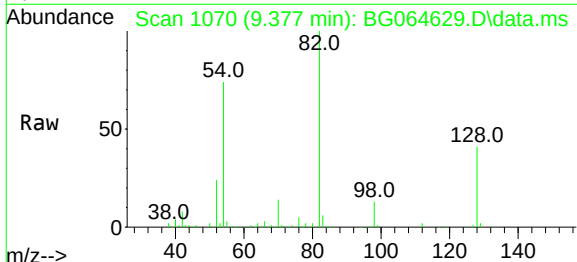
Instrument : BNA_G
ClientSampleId : MW-06

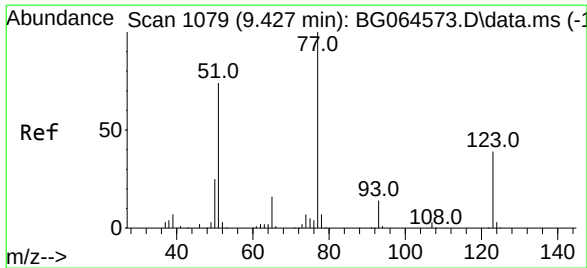
Tgt Ion:	136	Resp:	117287
Ion	Ratio	Lower	Upper
136	100		
137	13.0	9.2	13.8
54	15.8	12.6	19.0
68	6.4	5.7	8.5



#23
Nitrobenzene-d5
Concen: 120.487 ng
RT: 9.377 min Scan# 1070
Delta R.T. -0.013 min
Lab File: BG064629.D
Acq: 29 Oct 2025 18:56

Tgt Ion:	82	Resp:	235280
Ion	Ratio	Lower	Upper
82	100		
128	40.5	31.3	46.9
54	74.4	56.6	84.8

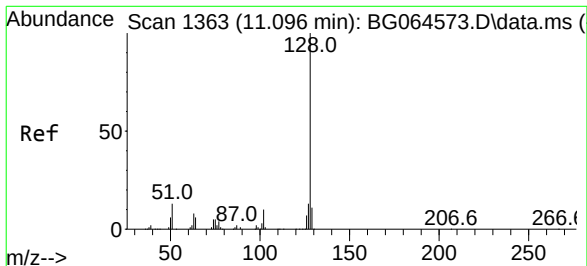
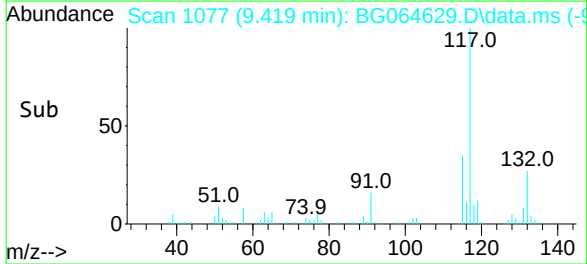
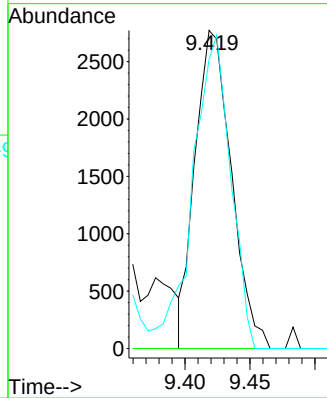
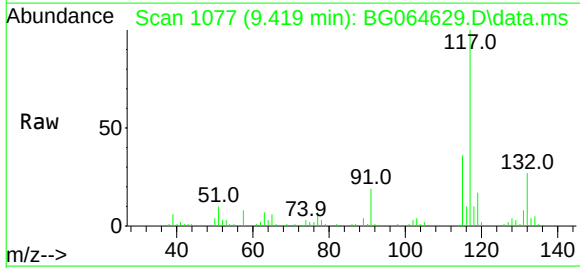




#24
Nitrobenzene
Concen: 2.530 ng
RT: 9.419 min Scan# 1077
Delta R.T. -0.012 min
Lab File: BG064629.D
Acq: 29 Oct 2025 18:56

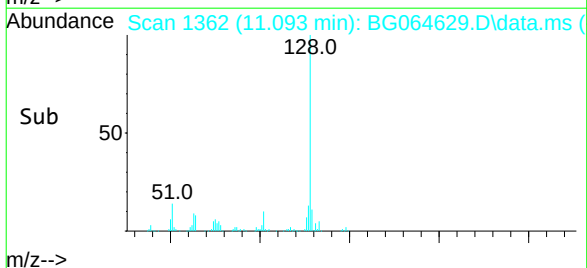
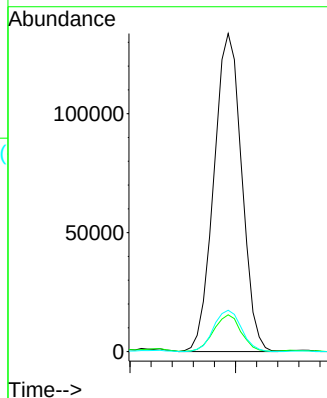
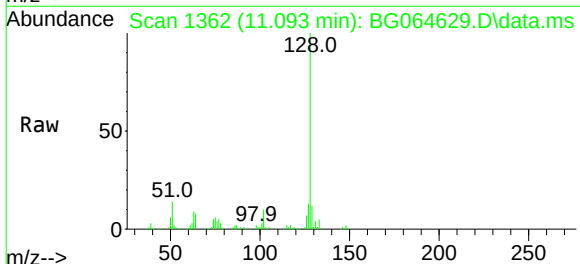
Instrument :
BNA_G
ClientSampleId :
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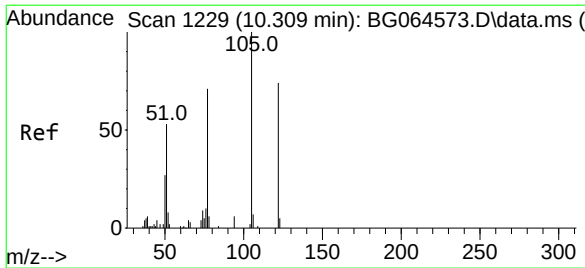
Tgt Ion: 77 Resp: 5374
Ion Ratio Lower Upper
77 100
123 0.0 31.0 46.6#
65 90.9 12.7 19.1#



#31
Naphthalene
Concen: 37.716 ng
RT: 11.093 min Scan# 1362
Delta R.T. -0.006 min
Lab File: BG064629.D
Acq: 29 Oct 2025 18:56

Tgt Ion: 128 Resp: 245262
Ion Ratio Lower Upper
128 100
129 11.6 8.8 13.2
127 13.0 10.6 15.8





#32

Benzoic acid

Concen: 7.299 ng

RT: 10.235 min Scan# 12

Delta R.T. -0.107 min

Lab File: BG064629.D

Acq: 29 Oct 2025 18:56

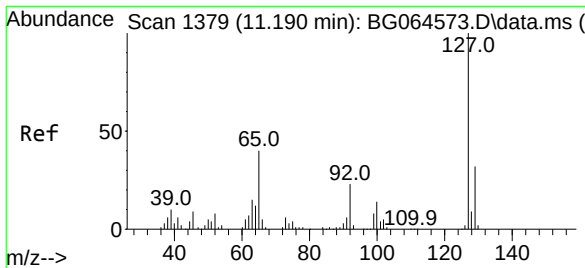
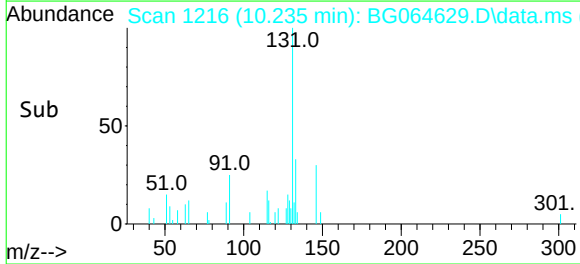
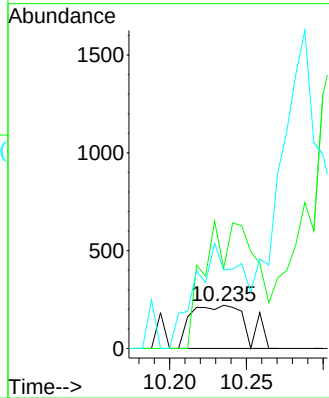
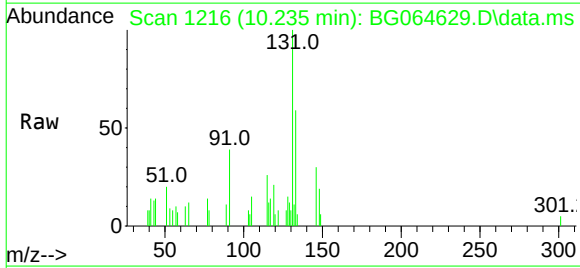
Instrument :

BNA_G

ClientSampleId :

MW-06

Tgt Ion:	122	Resp:	558
Ion	Ratio	Lower	Upper
122	100		
105	185.5	104.2	144.2#
77	181.4	70.2	110.2#



#33

4-Chloroaniline

Concen: 12.703 ng

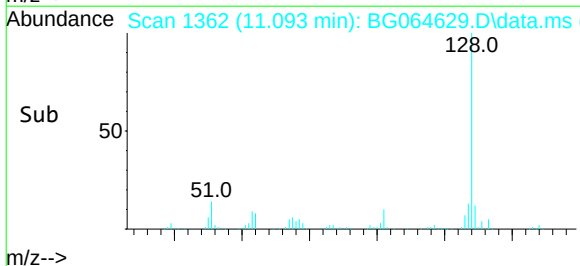
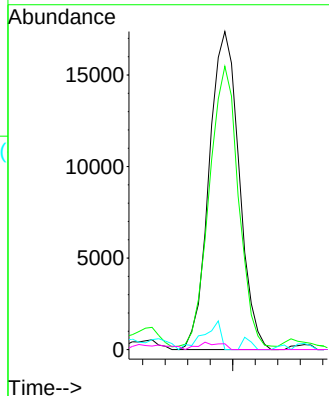
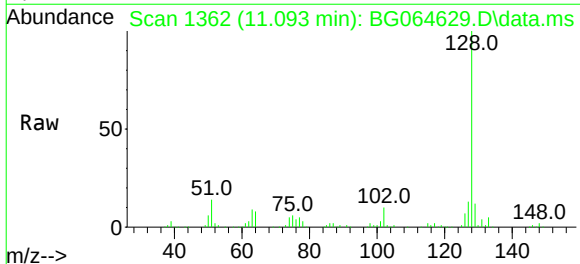
RT: 11.093 min Scan# 1362

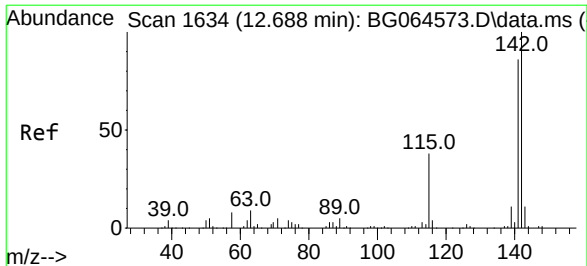
Delta R.T. -0.095 min

Lab File: BG064629.D

Acq: 29 Oct 2025 18:56

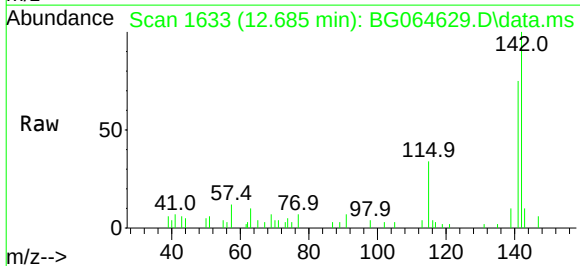
Tgt Ion:	127	Resp:	32107
Ion	Ratio	Lower	Upper
127	100		
129	89.1	25.5	38.3#
65	0.0	32.2	48.4#
92	1.8	18.2	27.2#



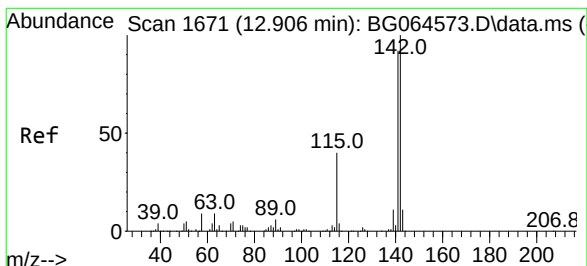
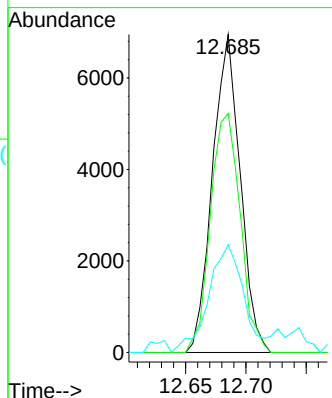
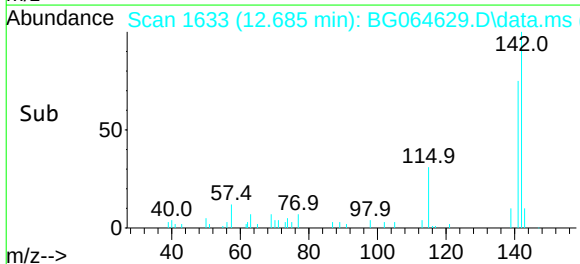


#37
2-Methylnaphthalene
Concen: 2.329 ng
RT: 12.685 min Scan# 1633
Delta R.T. -0.006 min
Lab File: BG064629.D
Acq: 29 Oct 2025 18:56

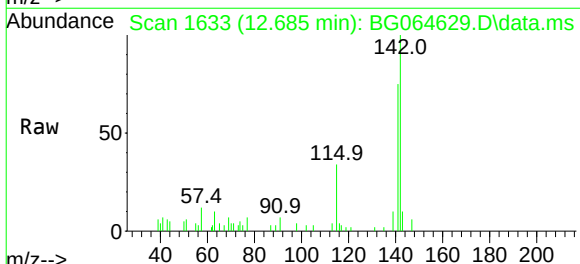
Instrument : BNA_G
ClientSampleId : MW-06



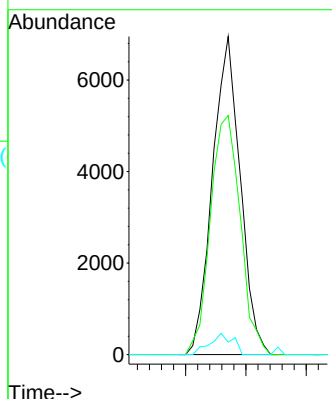
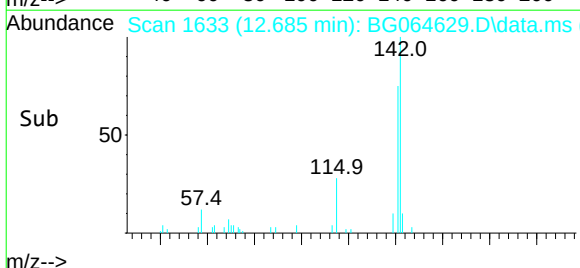
Tgt Ion:142 Resp: 11119
Ion Ratio Lower Upper
142 100
141 75.2 68.9 103.3
115 33.9 30.6 46.0

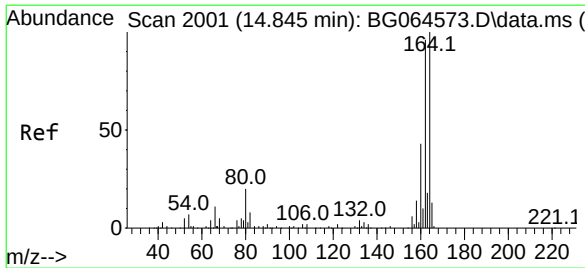


#38
1-Methylnaphthalene
Concen: 2.367 ng
RT: 12.685 min Scan# 1633
Delta R.T. -0.224 min
Lab File: BG064629.D
Acq: 29 Oct 2025 18:56



Tgt Ion:142 Resp: 11119
Ion Ratio Lower Upper
142 100
141 75.2 73.3 109.9
116 3.9 3.1 4.7





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.836 min Scan# 19

Delta R.T. -0.006 min

Lab File: BG064629.D

Acq: 29 Oct 2025 18:56

Instrument :

BNA_G

ClientSampleId :

MW-06

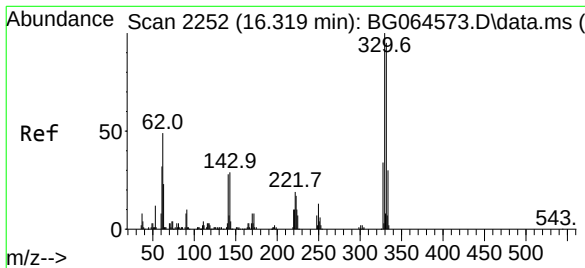
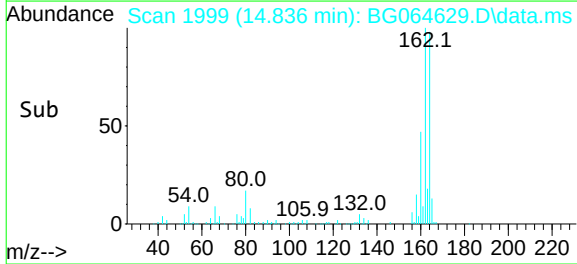
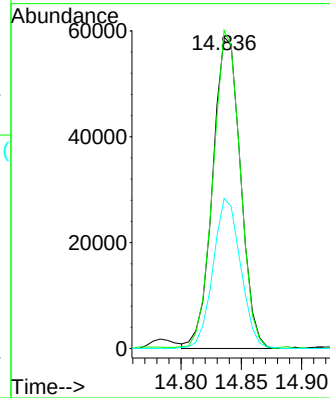
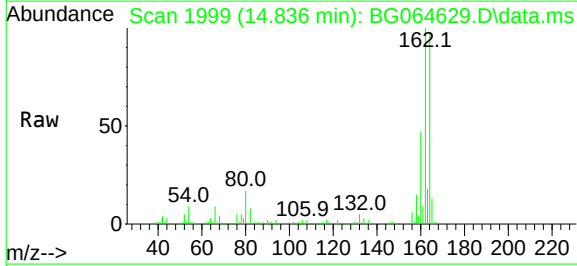
Tgt Ion:164 Resp: 94541

Ion Ratio Lower Upper

164 100

162 102.1 77.0 115.6

160 48.1 34.4 51.6



#42

2,4,6-Tribromophenol

Concen: 174.160 ng

RT: 16.316 min Scan# 2251

Delta R.T. -0.007 min

Lab File: BG064629.D

Acq: 29 Oct 2025 18:56

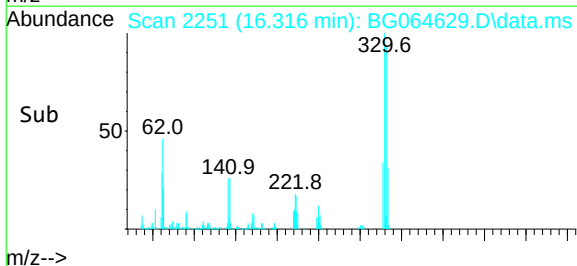
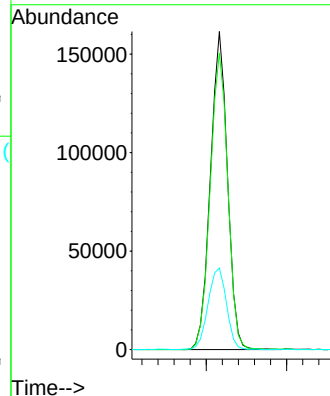
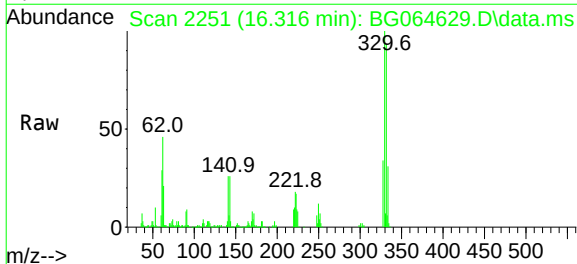
Tgt Ion:330 Resp: 237643

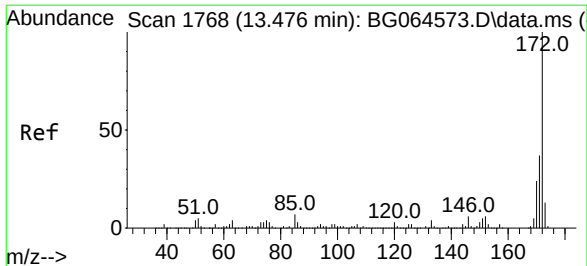
Ion Ratio Lower Upper

330 100

332 96.0 78.0 117.0

141 27.7 21.8 32.6





#45

2-Fluorobiphenyl

Concen: 95.261 ng

RT: 13.467 min Scan# 17

Delta R.T. -0.012 min

Lab File: BG064629.D

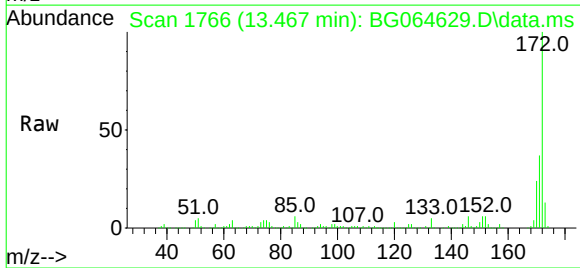
Acq: 29 Oct 2025 18:56

Instrument :

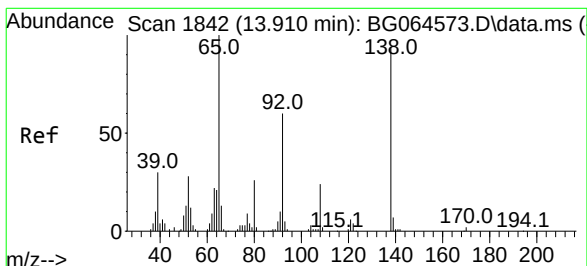
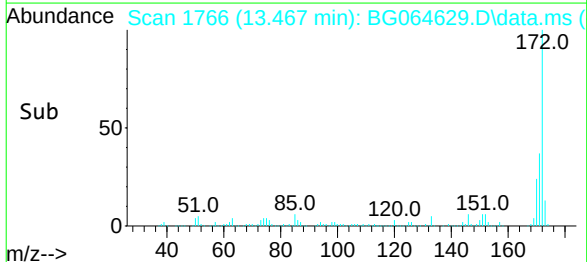
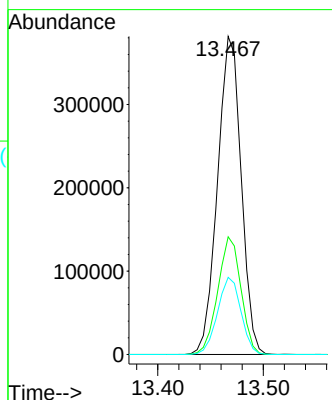
BNA_G

ClientSampleId :

MW-06



Tgt Ion:	172	Resp:	594168
Ion	Ratio	Lower	Upper
172	100		
171	37.0	29.4	44.0
170	24.3	19.1	28.7



#48

2-Nitroaniline

Concen: 3.334 ng

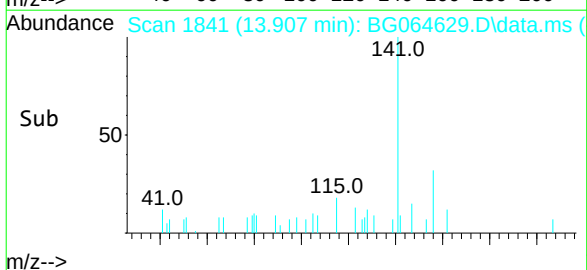
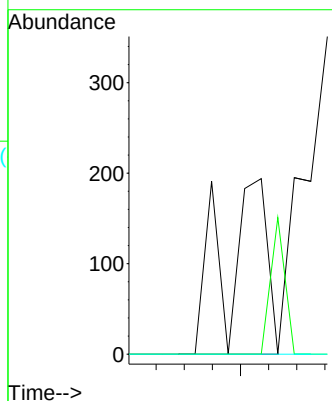
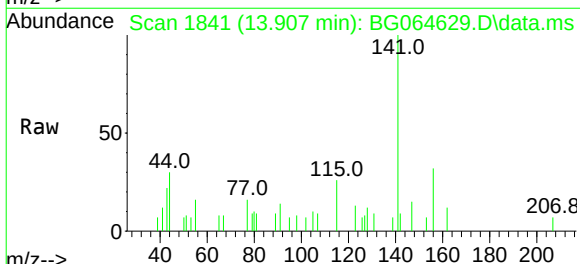
RT: 13.907 min Scan# 1841

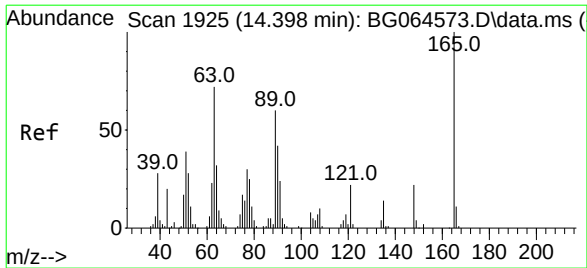
Delta R.T. -0.007 min

Lab File: BG064629.D

Acq: 29 Oct 2025 18:56

Tgt Ion:	65	Resp:	200
Ion	Ratio	Lower	Upper
65	100		
92	0.0	48.3	72.5#
138	0.0	74.9	112.3#

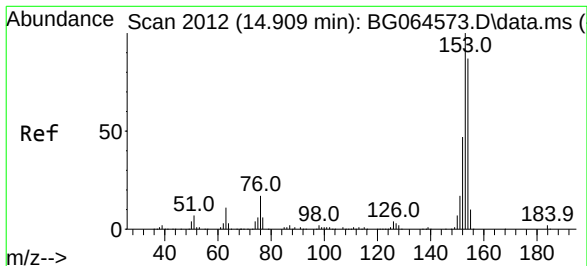
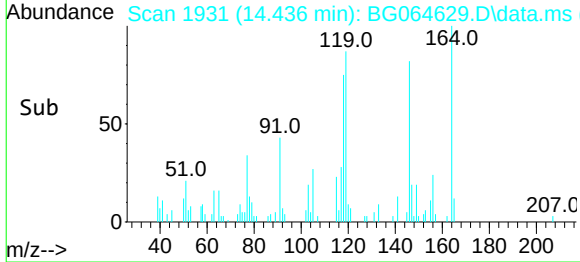
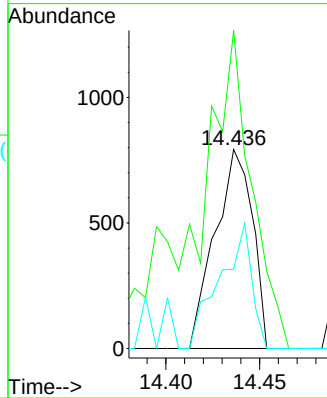
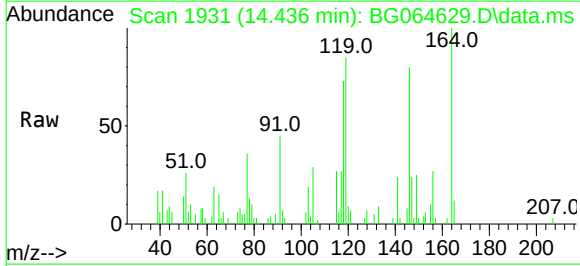




#51
2,6-Dinitrotoluene
Concen: 4.053 ng
RT: 14.436 min Scan# 19
Delta R.T. 0.034 min
Lab File: BG064629.D
Acq: 29 Oct 2025 18:56

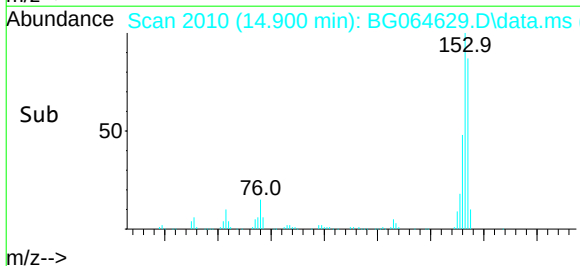
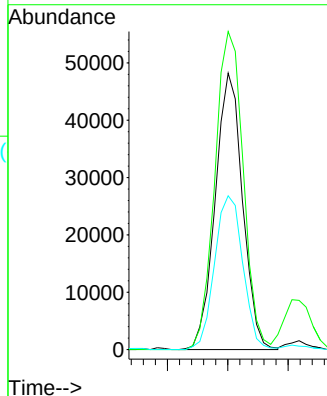
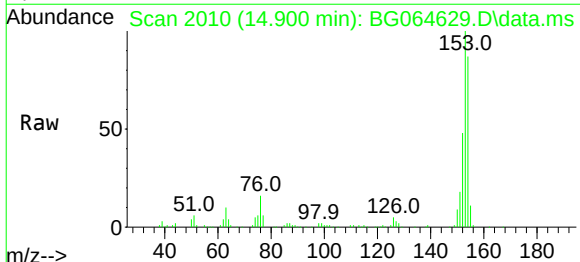
Instrument :
BNA_G
ClientSampleId :
MW-06

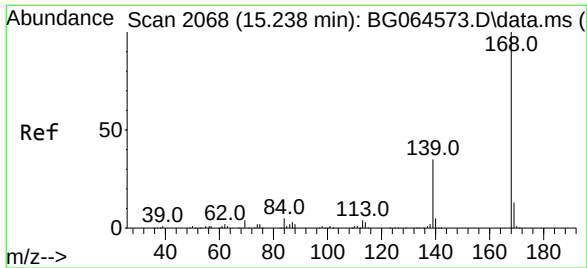
Tgt Ion:165 Resp: 1100
Ion Ratio Lower Upper
165 100
63 159.8 57.4 86.0#
89 39.8 47.8 71.8#



#52
Acenaphthene
Concen: 13.903 ng
RT: 14.900 min Scan# 2010
Delta R.T. -0.012 min
Lab File: BG064629.D
Acq: 29 Oct 2025 18:56

Tgt Ion:154 Resp: 76013
Ion Ratio Lower Upper
154 100
153 115.0 92.2 138.4
152 55.6 43.2 64.8





#55

Dibenzenofuran

Concen: 8.951 ng

RT: 15.235 min Scan# 2067

Delta R.T. -0.006 min

Lab File: BG064629.D

Acq: 29 Oct 2025 18:56

Instrument :

BNA_G

ClientSampleId :

MW-06

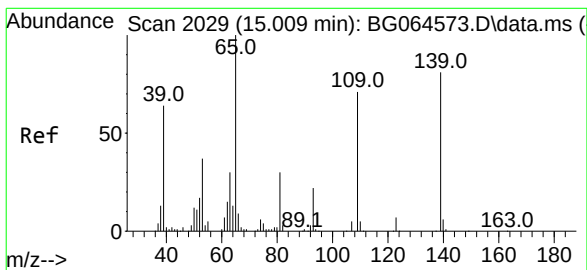
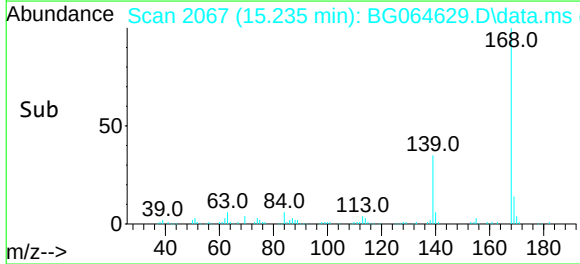
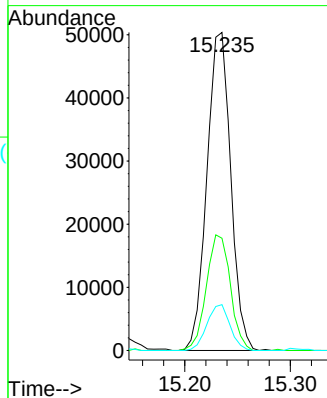
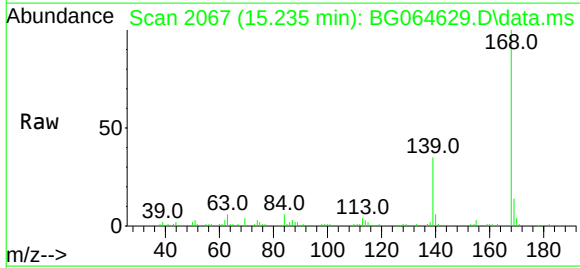
Tgt Ion:168 Resp: 79121

Ion Ratio Lower Upper

168 100

139 35.3 27.8 41.8

169 14.4 10.3 15.5



#56

4-Nitrophenol

Concen: 25.078 ng

RT: 15.229 min Scan# 2066

Delta R.T. 0.211 min

Lab File: BG064629.D

Acq: 29 Oct 2025 18:56

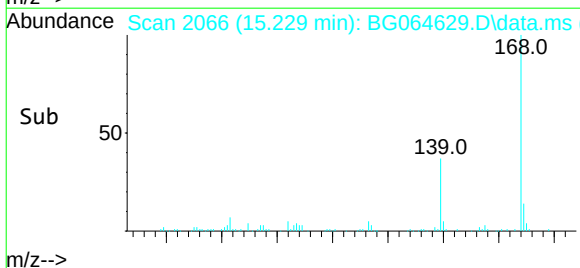
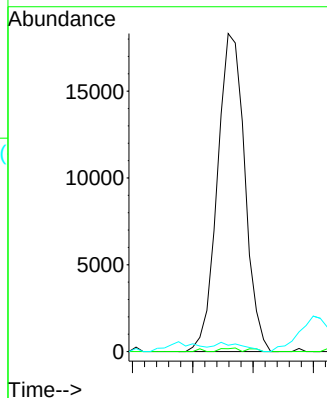
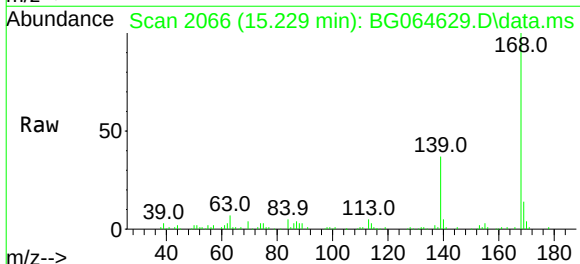
Tgt Ion:139 Resp: 28906

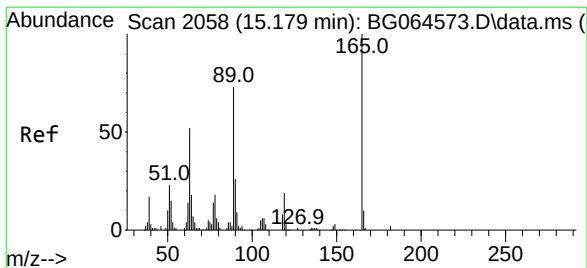
Ion Ratio Lower Upper

139 100

109 0.9 67.8 107.8#

65 2.0 103.7 143.7#





#57

2,4-Dinitrotoluene

Concen: 3.315 ng

RT: 15.176 min Scan# 2058

Delta R.T. -0.013 min

Lab File: BG064629.D

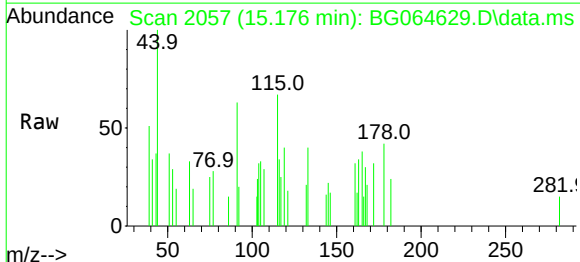
Acq: 29 Oct 2025 18:56

Instrument :

BNA_G

ClientSampleId :

MW-06



Tgt Ion:165 Resp: 521

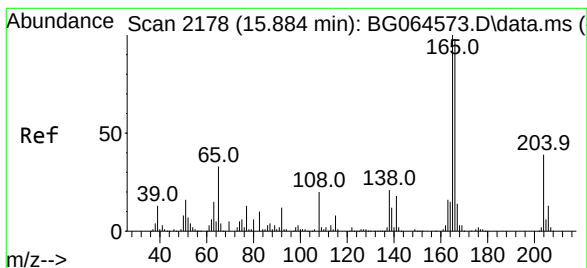
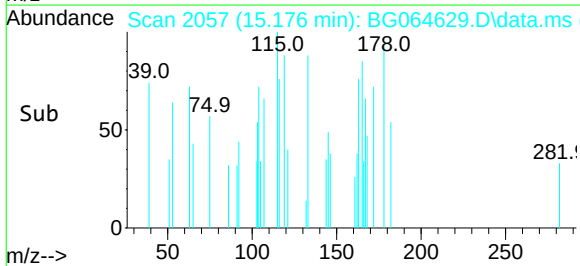
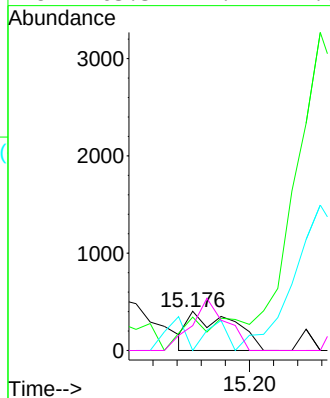
Ion Ratio Lower Upper

165 100

63 85.1 41.8 62.8#

89 0.0 58.1 87.1#

182 63.3 1.4 2.0#



#58

Fluorene

Concen: 7.030 ng

RT: 15.876 min Scan# 2176

Delta R.T. -0.012 min

Lab File: BG064629.D

Acq: 29 Oct 2025 18:56

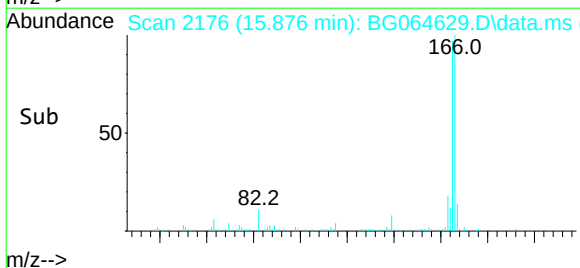
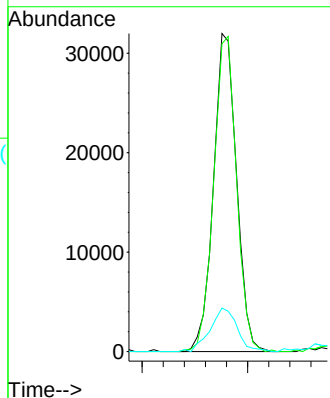
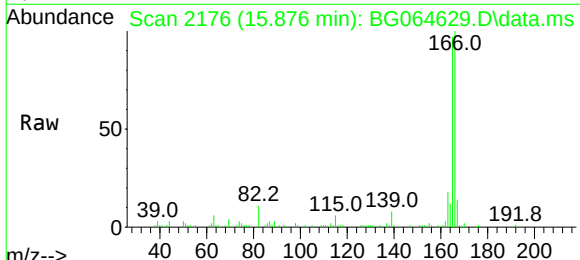
Tgt Ion:166 Resp: 48529

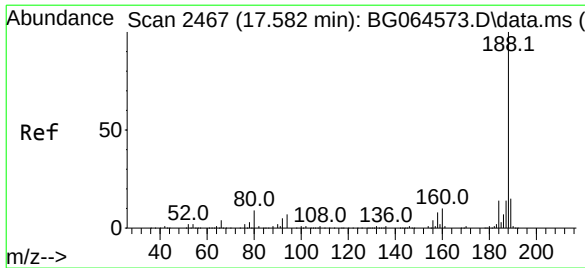
Ion Ratio Lower Upper

166 100

165 96.8 81.5 122.3

167 13.7 11.4 17.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.574 min Scan# 24

Delta R.T. -0.006 min

Lab File: BG064629.D

Acq: 29 Oct 2025 18:56

Instrument :

BNA_G

ClientSampleId :

MW-06

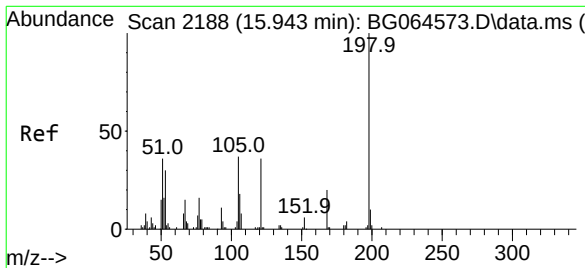
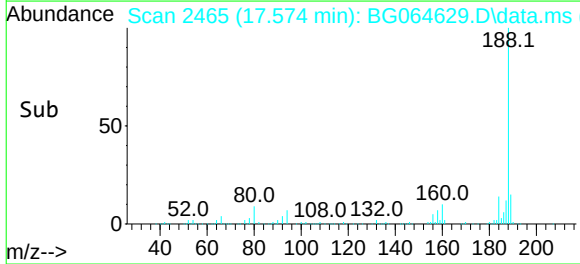
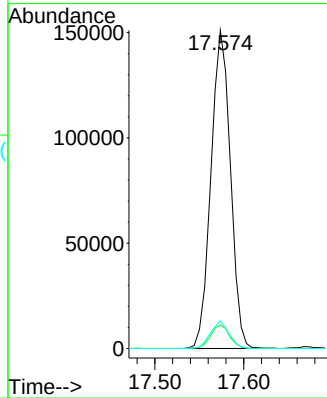
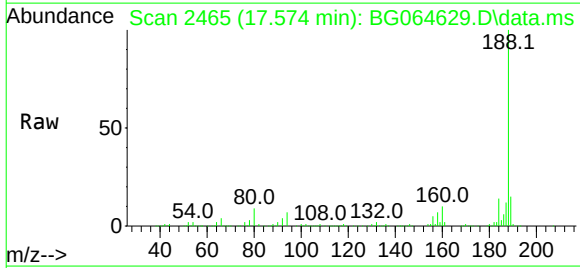
Tgt Ion:188 Resp: 229494

Ion Ratio Lower Upper

188 100

94 7.3 5.7 8.5

80 8.7 6.8 10.2



#65

4,6-Dinitro-2-methylphenol

Concen: 5.840 ng

RT: 16.316 min Scan# 2251

Delta R.T. 0.369 min

Lab File: BG064629.D

Acq: 29 Oct 2025 18:56

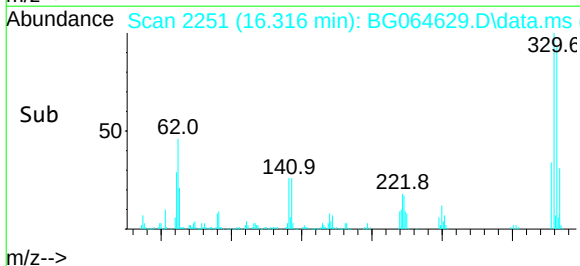
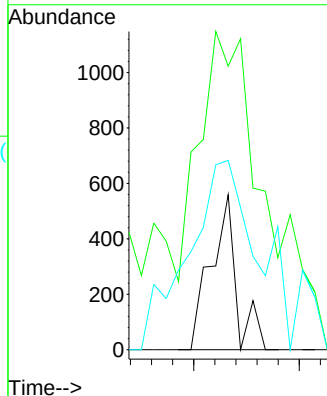
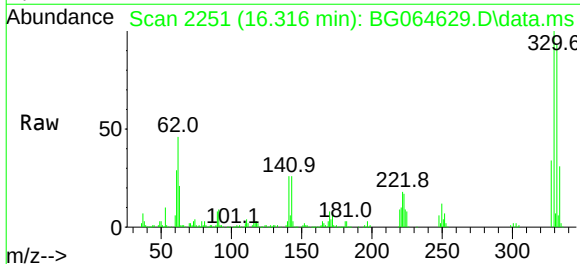
Tgt Ion:198 Resp: 471

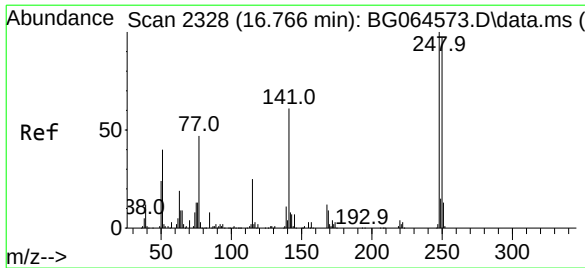
Ion Ratio Lower Upper

198 100

51 42.7 24.7 64.7

105 28.5 18.0 58.0





#67

4-Bromophenyl-phenylether

Concen: 5.727 ng

RT: 16.316 min Scan# 22

Delta R.T. -0.453 min

Lab File: BG064629.D

Acq: 29 Oct 2025 18:56

Instrument :

BNA_G

ClientSampleId :

MW-06

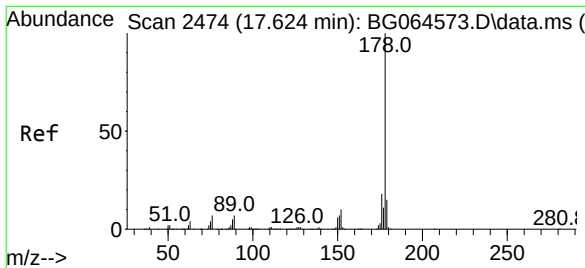
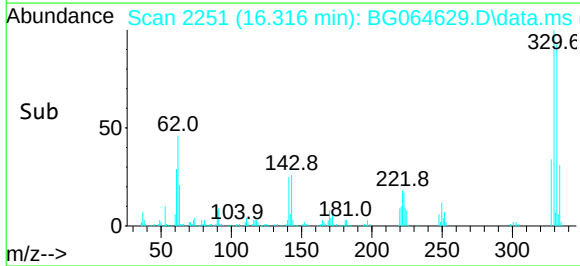
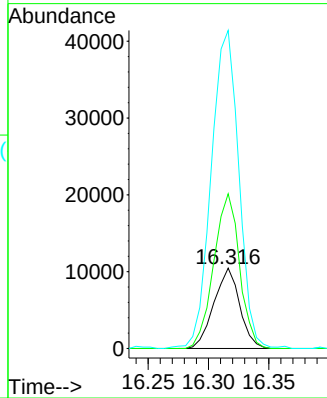
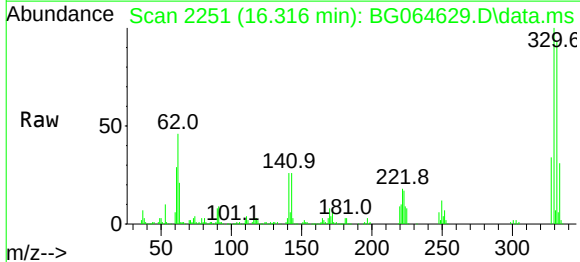
Tgt Ion:248 Resp: 15574

Ion Ratio Lower Upper

248 100

250 192.5 77.7 116.5#

141 395.7 48.6 72.8#



#71

Phenanthrene

Concen: 6.022 ng

RT: 17.615 min Scan# 2472

Delta R.T. -0.012 min

Lab File: BG064629.D

Acq: 29 Oct 2025 18:56

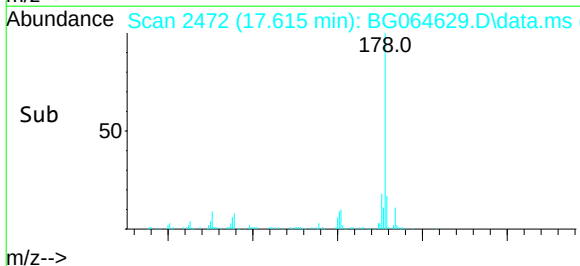
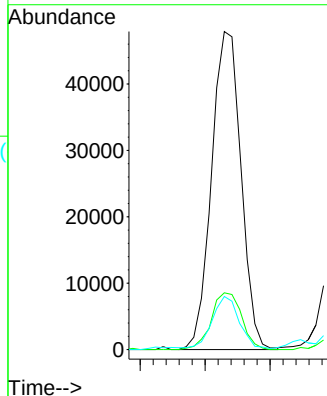
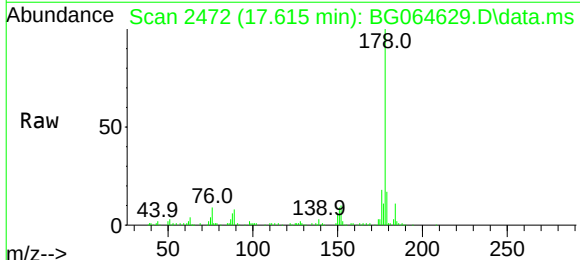
Tgt Ion:178 Resp: 75579

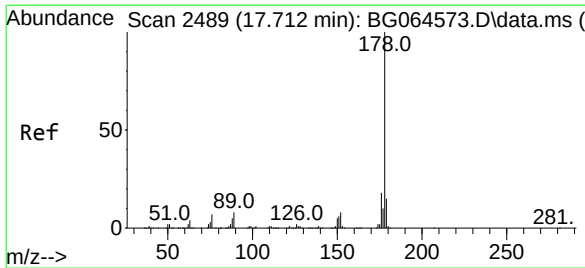
Ion Ratio Lower Upper

178 100

176 17.9 14.7 22.1

179 16.7 12.2 18.4





#72

Anthracene

Concen: 3.393 ng

RT: 17.703 min Scan# 24

Delta R.T. -0.012 min

Lab File: BG064629.D

Acq: 29 Oct 2025 18:56

Instrument :

BNA_G

ClientSampleId :

MW-06

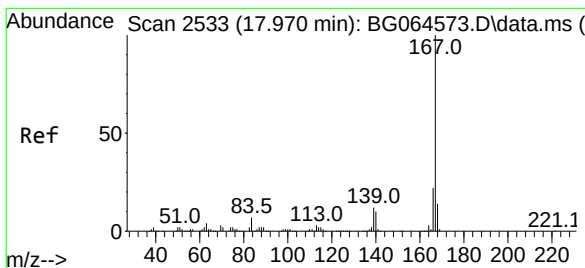
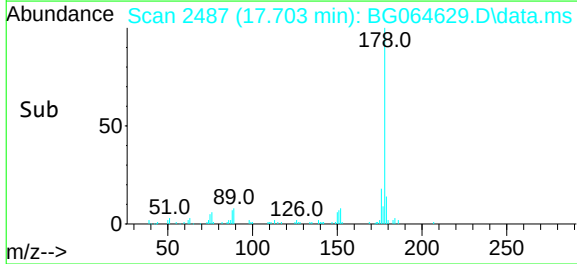
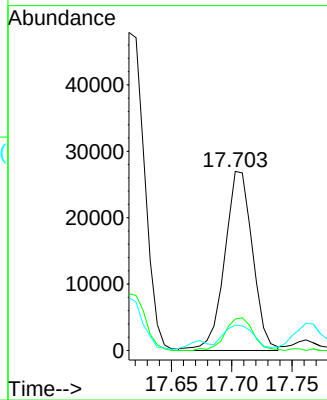
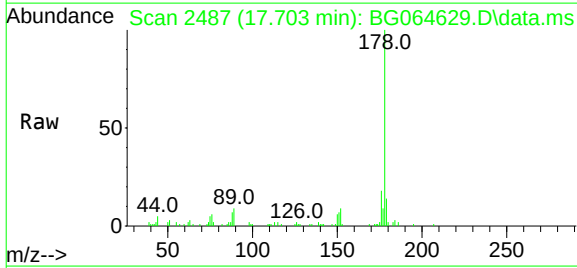
Tgt Ion:178 Resp: 43317

Ion Ratio Lower Upper

178 100

176 17.6 14.4 21.6

179 14.1 12.4 18.6



#73

Carbazole

Concen: 16.431 ng

RT: 17.967 min Scan# 2532

Delta R.T. -0.006 min

Lab File: BG064629.D

Acq: 29 Oct 2025 18:56

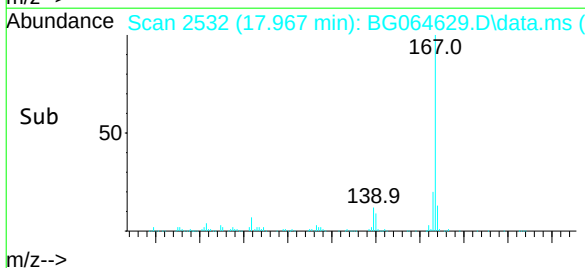
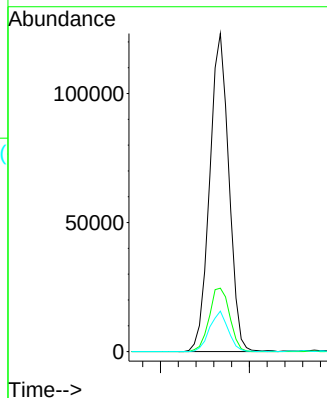
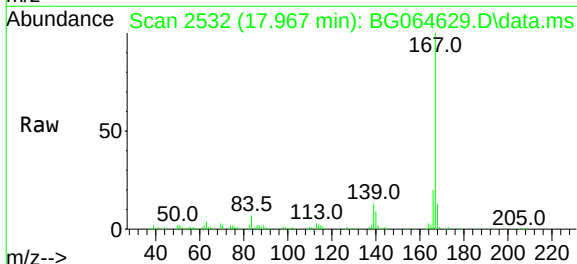
Tgt Ion:167 Resp: 184979

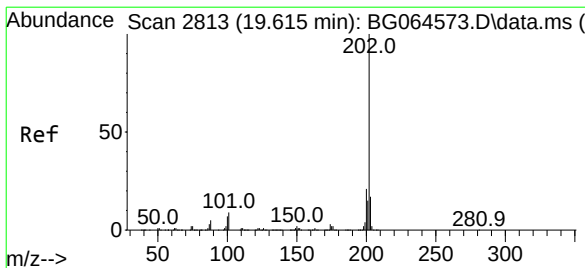
Ion Ratio Lower Upper

167 100

166 19.9 17.9 26.9

139 12.7 9.7 14.5





#75

Fluoranthene

Concen: 6.809 ng

RT: 19.612 min Scan# 2812

Delta R.T. -0.006 min

Lab File: BG064629.D

Acq: 29 Oct 2025 18:56

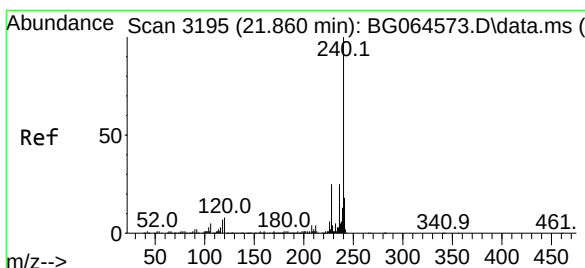
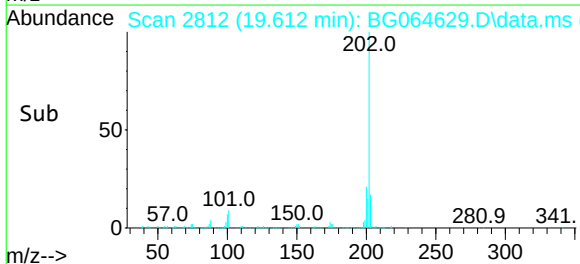
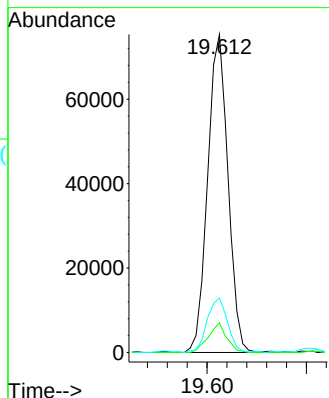
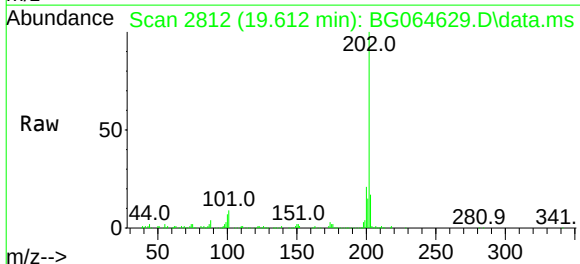
Instrument :

BNA_G

ClientSampleId :

MW-06

Tgt Ion:	202	Resp:	107055
Ion	Ratio	Lower	Upper
202	100		
101	9.4	0.0	28.7
203	17.2	0.0	37.0



#76

Chrysene-d12

Concen: 20.000 ng

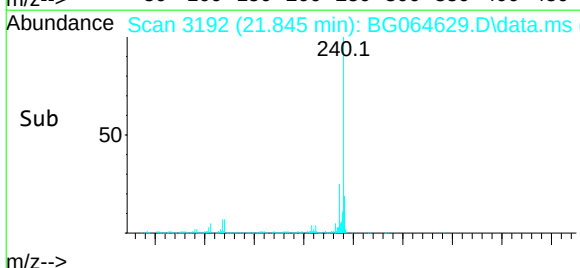
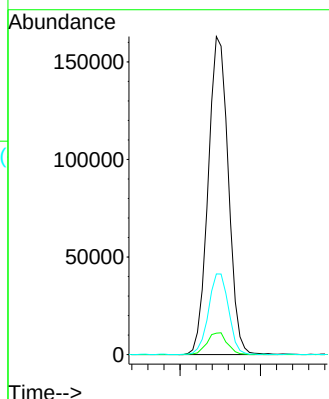
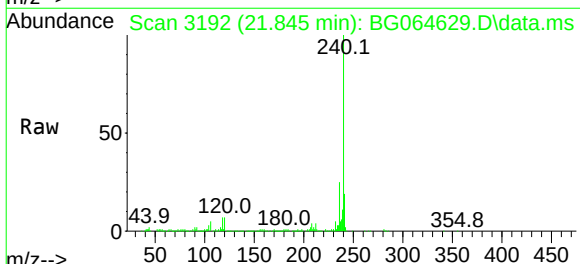
RT: 21.845 min Scan# 3192

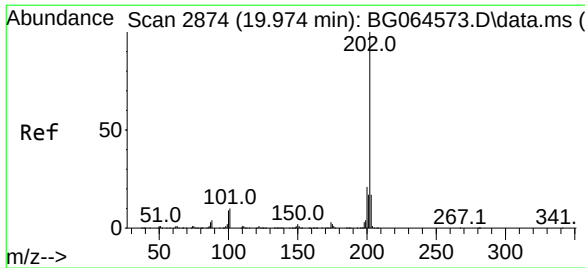
Delta R.T. -0.018 min

Lab File: BG064629.D

Acq: 29 Oct 2025 18:56

Tgt Ion:	240	Resp:	284022
Ion	Ratio	Lower	Upper
240	100		
120	6.7	6.5	9.7
236	25.4	20.2	30.2





#78

Pyrene

Concen: 4.594 ng

RT: 19.971 min Scan# 28

Delta R.T. -0.006 min

Lab File: BG064629.D

Acq: 29 Oct 2025 18:56

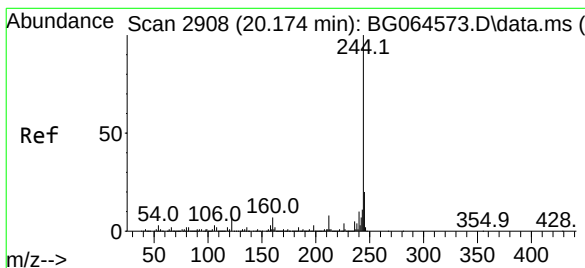
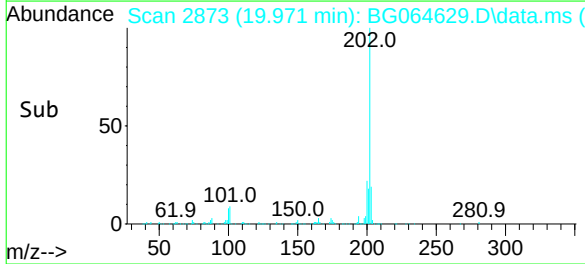
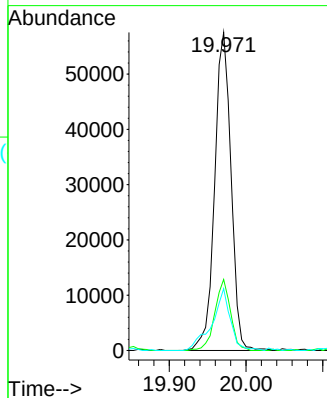
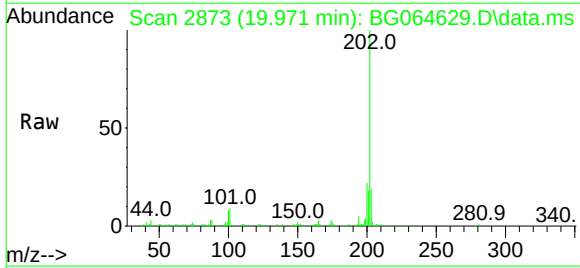
Instrument :

BNA_G

ClientSampleId :

MW-06

Tgt Ion:	202	Resp:	85251
Ion	Ratio	Lower	Upper
202	100		
200	22.3	17.0	25.4
203	19.4	13.8	20.6



#79

Terphenyl-d14

Concen: 96.155 ng

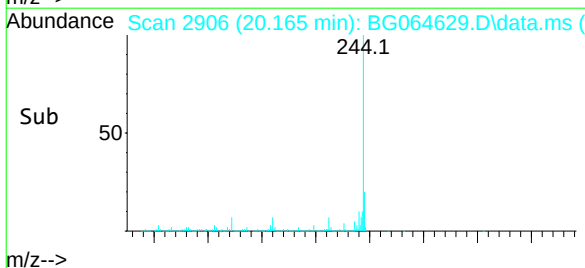
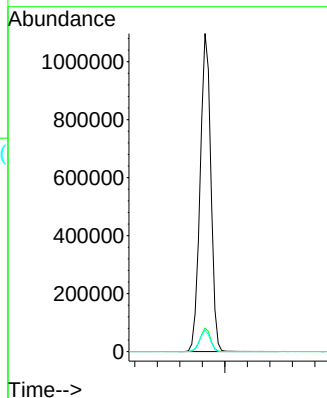
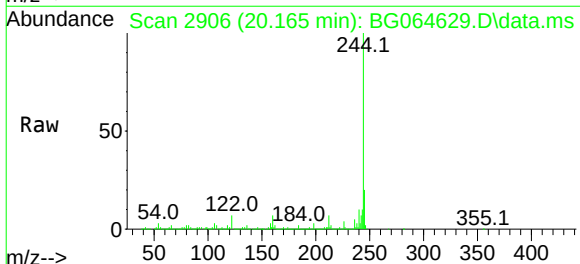
RT: 20.165 min Scan# 2906

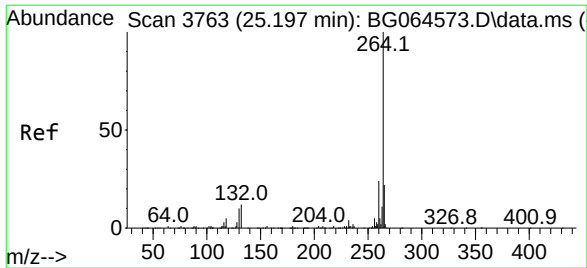
Delta R.T. -0.012 min

Lab File: BG064629.D

Acq: 29 Oct 2025 18:56

Tgt Ion:	244	Resp:	1447151
Ion	Ratio	Lower	Upper
244	100		
212	7.4	6.1	9.1
122	6.7	5.6	8.4





#86
Perylene-d12
Concen: 20.000 ng
RT: 25.188 min Scan# 37
Delta R.T. -0.012 min
Lab File: BG064629.D
Acq: 29 Oct 2025 18:56

Instrument :
BNA_G
ClientSampleId :
MW-06

Tgt Ion:	264	Resp:	312536
Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.0	28.4
265	20.7	17.6	26.4

