

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG102925\
 Data File : BG064634.D
 Acq On : 29 Oct 2025 22:21
 Operator : RC/JU
 Sample : Q3468-06
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 MW-12

Quant Time: Oct 30 05:00:14 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)

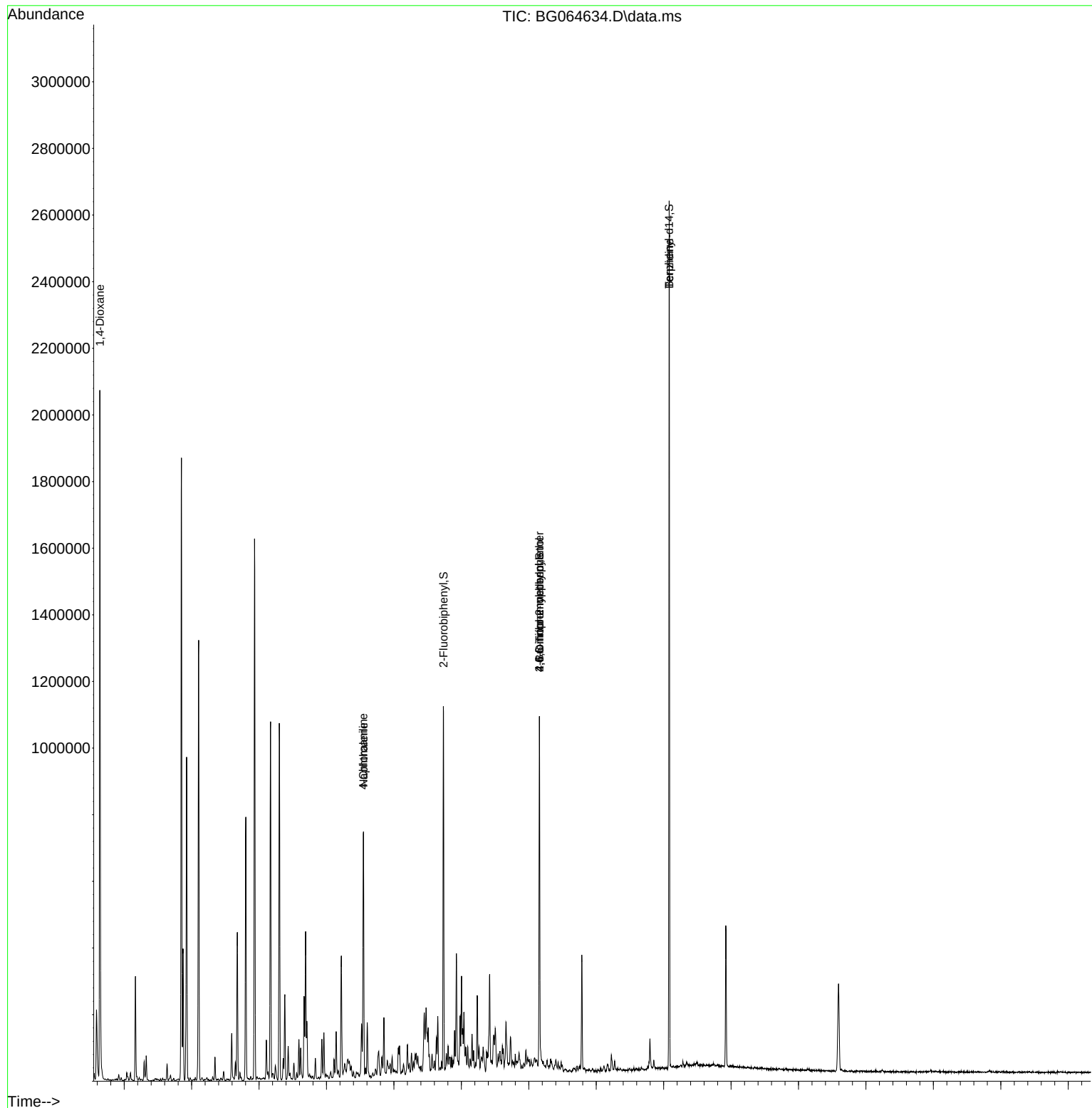
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.218	152	31994	20.000	ng	0.00
21) Naphthalene-d8	11.038	136	123990	20.000	ng	-0.01
39) Acenaphthene-d10	14.840	164	102275	20.000	ng	0.00
64) Phenanthrene-d10	17.572	188	212573	20.000	ng	0.00
76) Chrysene-d12	21.843	240	278839	20.000	ng	-0.02
86) Perylene-d12	25.186	264	309539	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.744	112	150145	78.770	ng	0.00
7) Phenol-d6	7.348	99	141038	53.922	ng	0.00
23) Nitrobenzene-d5	9.381	82	242395	117.420	ng	0.00
42) 2,4,6-Tribromophenol	16.314	330	223448	151.374	ng	0.00
45) 2-Fluorobiphenyl	13.471	172	582439	86.319	ng	0.00
79) Terphenyl-d14	20.163	244	1364433	92.344	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.277	88	16286	19.299	ng	# 1
9) Benzaldehyde	7.360	77	15619	10.938	ng	# 1
18) Hexachloroethane	9.340	117	31177	38.050	ng	# 1
19) n-Nitroso-di-n-propyla...	9.381	70	34251	18.948	ng	# 68
22) Acetophenone	9.035	105	34141	10.073	ng	# 55
24) Nitrobenzene	9.422	77	6383	2.843	ng	# 5
26) 2-Nitrophenol	10.221	139	66	3.202	ng	# 1
27) 2,4-Dimethylphenol	10.221	122	16239	8.640	ng	# 81
31) Naphthalene	11.097	128	578269	84.119	ng	100
32) Benzoic acid	10.221	122	16239	17.183	ng	# 24
33) 4-Chloroaniline	11.091	127	79024	29.575	ng	# 32
38) 1-Methylnaphthalene	12.901	142	56757	11.429	ng	# 98
48) 2-Nitroaniline	13.899	65	1069	3.766	ng	# 24
51) 2,6-Dinitrotoluene	14.364	165	2066	4.687	ng	# 85
54) 2,4-Dinitrophenol	14.986	184	56	5.638	ng	# 1
57) 2,4-Dinitrotoluene	15.022	165	1602	3.802	ng	# 35
65) 4,6-Dinitro-2-methylph...	16.314	198	626	6.020	ng	80
67) 4-Bromophenyl-phenylether	16.314	248	14503	5.757	ng	# 1
77) Benzidine	20.169	184	22497	3.601	ng	# 93

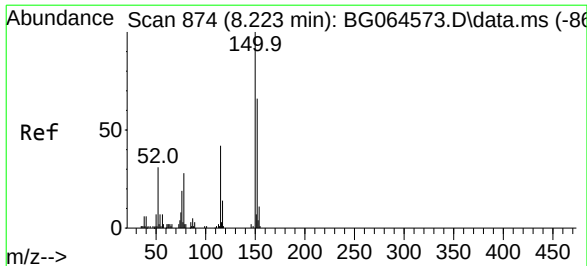
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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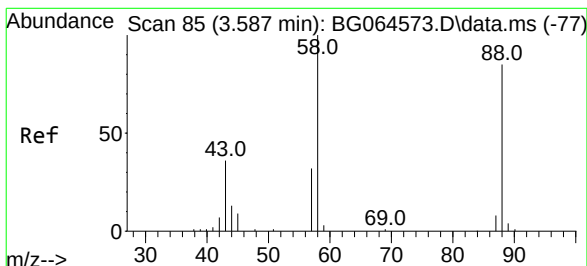
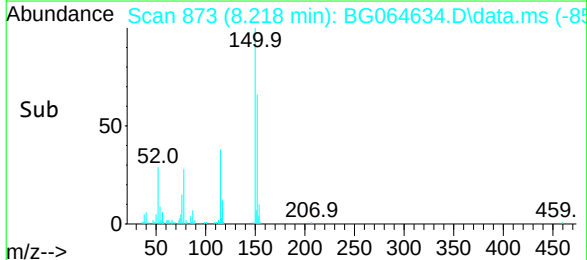
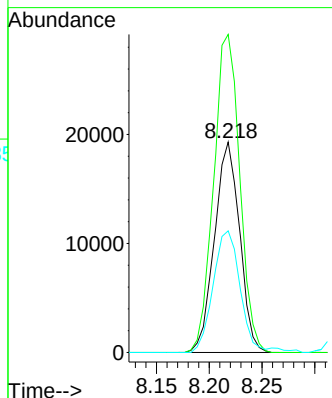
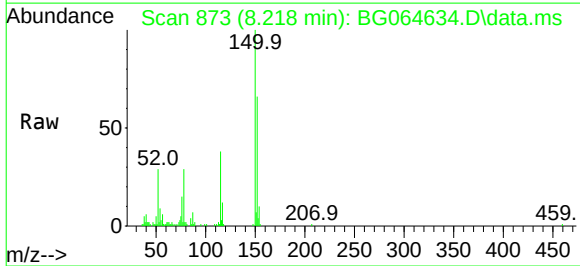




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.218 min Scan# 87
Delta R.T. -0.003 min
Lab File: BG064634.D
Acq: 29 Oct 2025 22:21

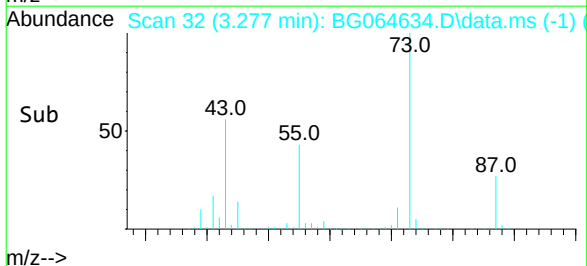
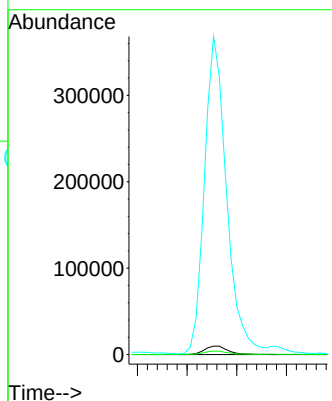
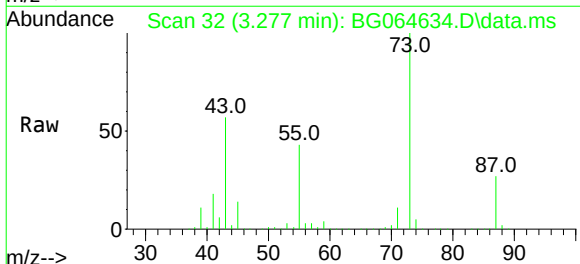
Instrument :
BNA_G
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MW-12

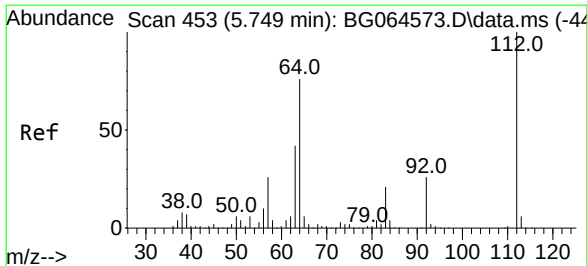
Tgt Ion:152 Resp: 31994
Ion Ratio Lower Upper
152 100
150 151.1 122.2 183.4
115 57.8 50.8 76.2



#2
1,4-Dioxane
Concen: 19.299 ng
RT: 3.277 min Scan# 32
Delta R.T. -0.314 min
Lab File: BG064634.D
Acq: 29 Oct 2025 22:21

Tgt Ion: 88 Resp: 16286
Ion Ratio Lower Upper
88 100
58 47.0 92.4 138.6#
43 3491.5 33.0 49.6#

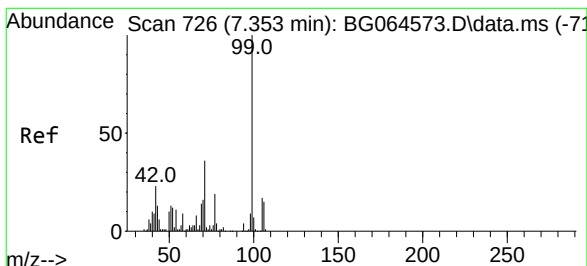
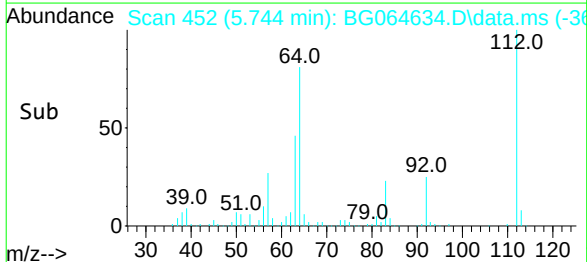
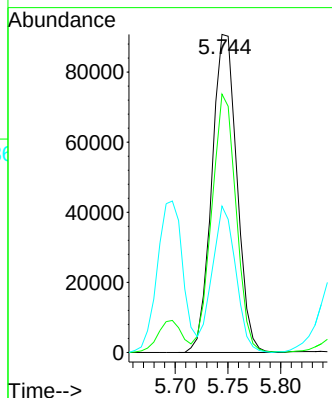
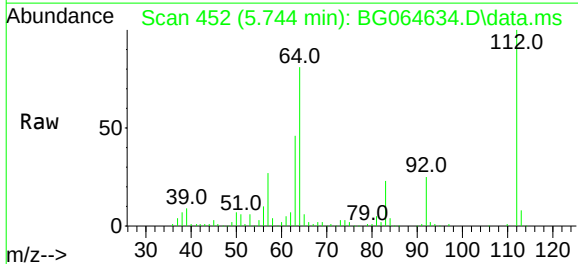




#5
2-Fluorophenol
Concen: 78.770 ng
RT: 5.744 min Scan# 453
Delta R.T. -0.003 min
Lab File: BG064634.D
Acq: 29 Oct 2025 22:21

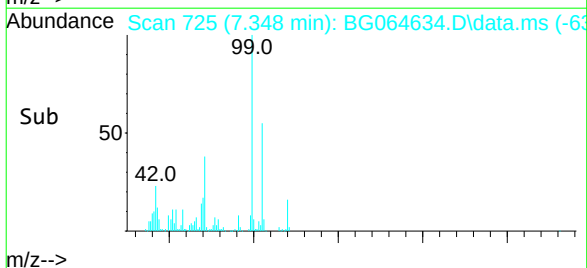
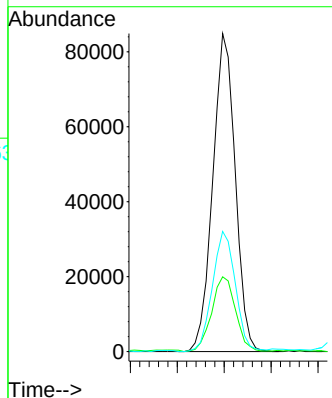
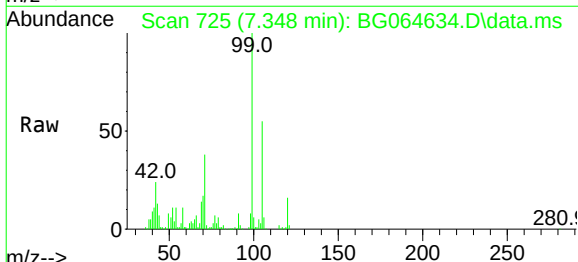
Instrument :
BNA_G
ClientSampleId :
MW-12

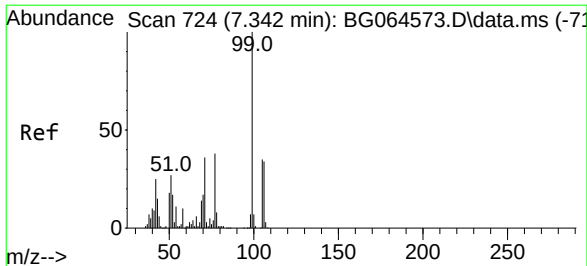
Tgt Ion:112 Resp: 150145
Ion Ratio Lower Upper
112 100
64 81.2 60.7 91.1
63 46.0 33.4 50.0



#7
Phenol-d6
Concen: 53.922 ng
RT: 7.348 min Scan# 725
Delta R.T. -0.008 min
Lab File: BG064634.D
Acq: 29 Oct 2025 22:21

Tgt Ion: 99 Resp: 141038
Ion Ratio Lower Upper
99 100
42 23.5 18.3 27.5
71 37.8 28.6 43.0





#9

Benzaldehyde

Concen: 10.938 ng

RT: 7.360 min Scan# 72

Delta R.T. 0.021 min

Lab File: BG064634.D

Acq: 29 Oct 2025 22:21

Instrument :

BNA_G

ClientSampleId :

MW-12

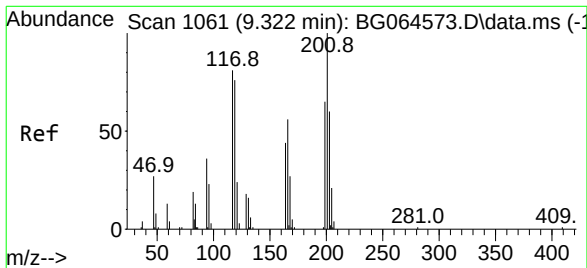
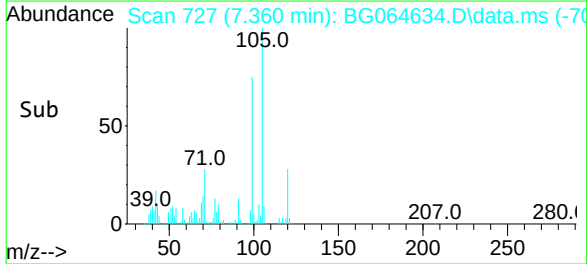
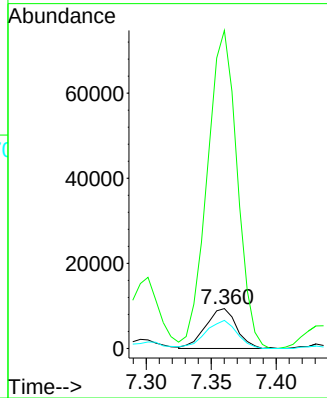
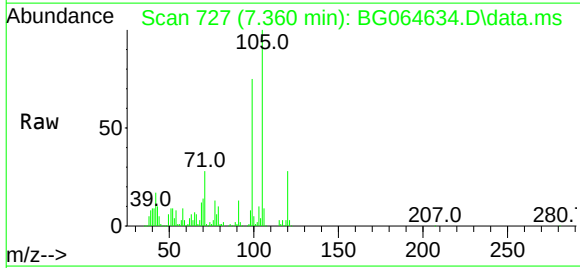
Tgt Ion: 77 Resp: 15619

Ion Ratio Lower Upper

77 100

105 796.9 72.9 112.9#

106 70.5 70.8 110.8#



#18

Hexachloroethane

Concen: 38.050 ng

RT: 9.340 min Scan# 1064

Delta R.T. 0.015 min

Lab File: BG064634.D

Acq: 29 Oct 2025 22:21

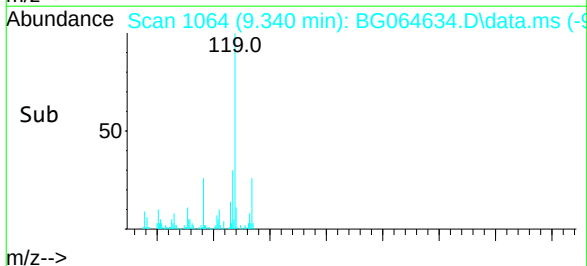
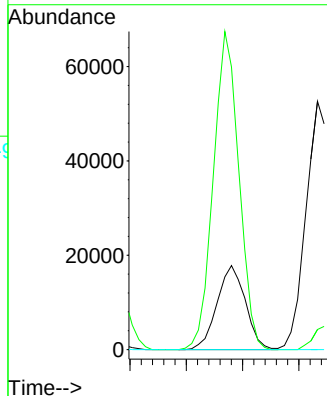
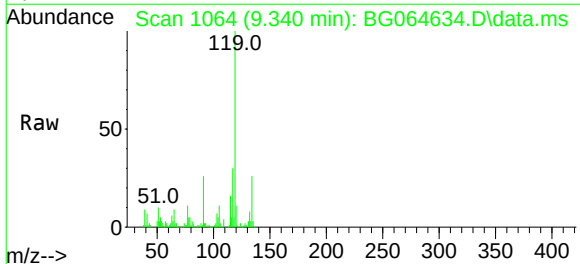
Tgt Ion: 117 Resp: 31177

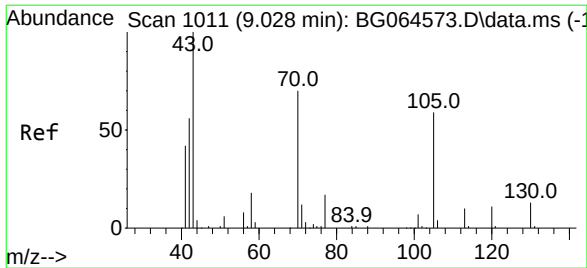
Ion Ratio Lower Upper

117 100

119 336.3 75.4 113.2#

201 0.0 99.2 148.8#

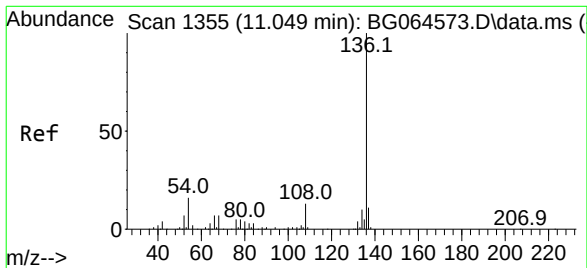
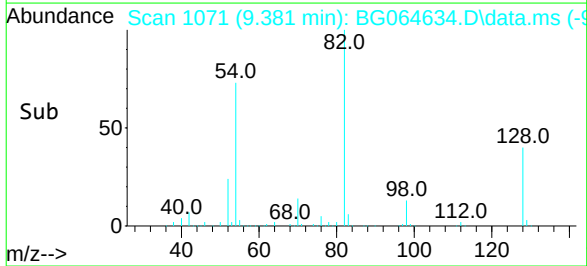
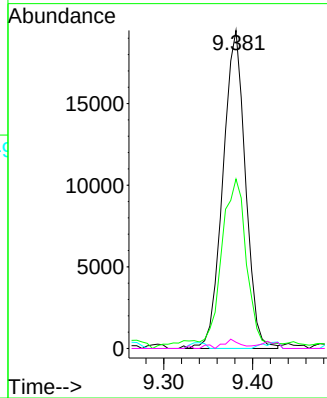
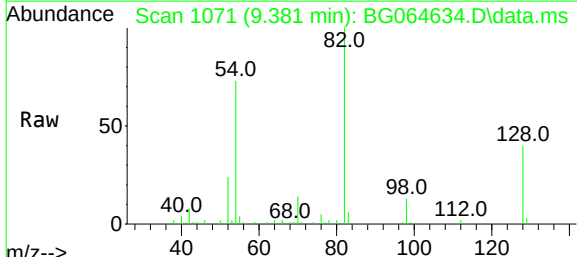




#19
n-Nitroso-di-n-propylamine
Concen: 18.948 ng
RT: 9.381 min Scan# 1011
Delta R.T. 0.350 min
Lab File: BG064634.D
Acq: 29 Oct 2025 22:21

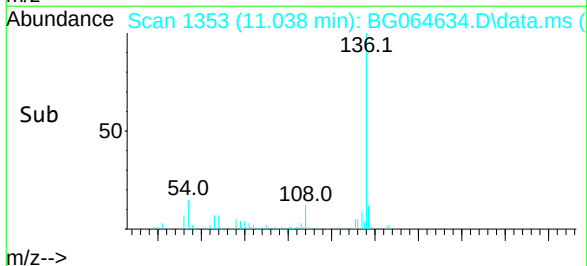
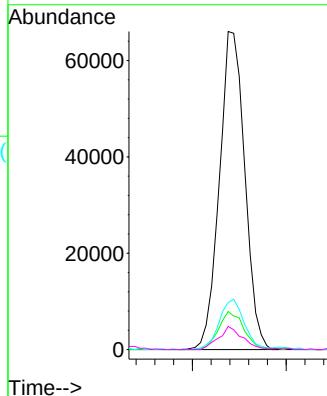
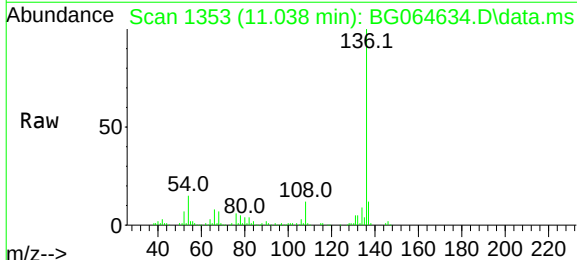
Instrument :
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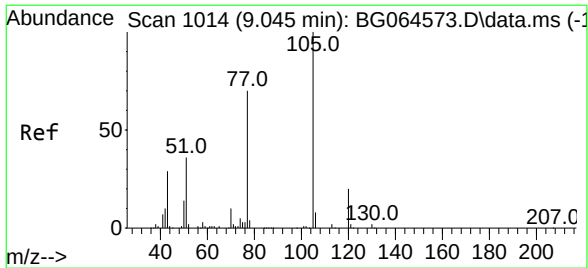
Tgt Ion: 70 Resp: 34251
Ion Ratio Lower Upper
70 100
42 53.3 65.2 97.8#
101 0.0 7.9 11.9#
130 2.0 14.3 21.5#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.038 min Scan# 1353
Delta R.T. -0.014 min
Lab File: BG064634.D
Acq: 29 Oct 2025 22:21

Tgt Ion: 136 Resp: 123990
Ion Ratio Lower Upper
136 100
137 12.0 9.2 13.8
54 14.8 12.6 19.0
68 7.3 5.7 8.5

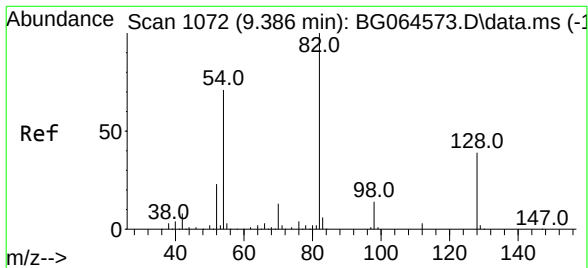
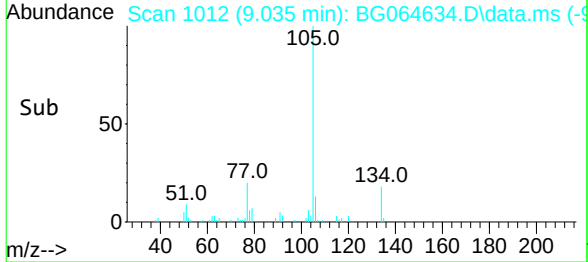
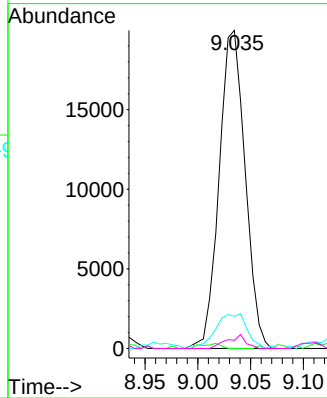
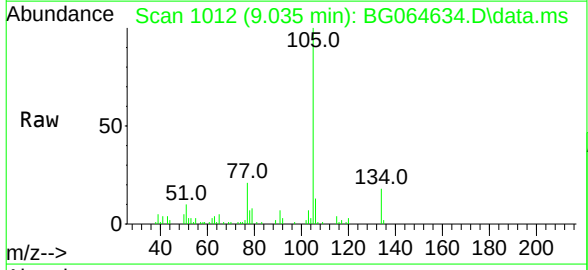




#22
Acetophenone
Concen: 10.073 ng
RT: 9.035 min Scan# 1012
Delta R.T. -0.014 min
Lab File: BG064634.D
Acq: 29 Oct 2025 22:21

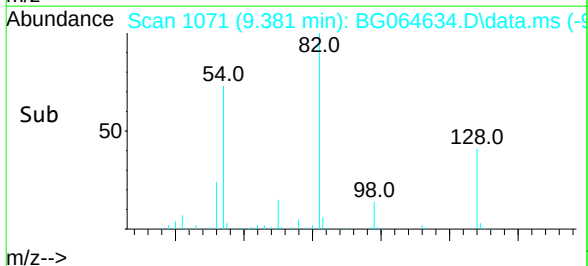
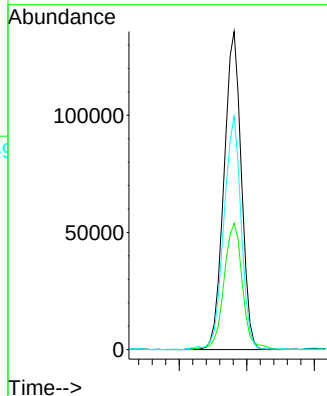
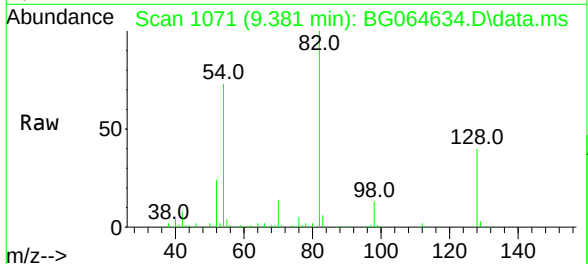
Instrument :
BNA_G
ClientSampleId :
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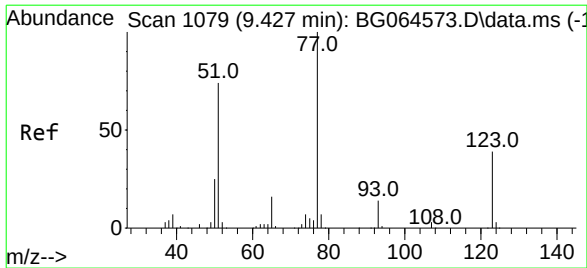
Tgt Ion:	105	Resp:	34141
Ion Ratio	Lower	Upper	
105	100		
71	0.0	1.5	2.3#
51	10.1	33.7	50.5#
120	2.6	16.1	24.1#



#23
Nitrobenzene-d5
Concen: 117.420 ng
RT: 9.381 min Scan# 1071
Delta R.T. -0.009 min
Lab File: BG064634.D
Acq: 29 Oct 2025 22:21

Tgt Ion:	82	Resp:	242395
Ion Ratio	Lower	Upper	
82	100		
128	39.7	31.3	46.9
54	73.4	56.6	84.8





#24

Nitrobenzene

Concen: 2.843 ng

RT: 9.422 min Scan# 10

Delta R.T. -0.008 min

Lab File: BG064634.D

Acq: 29 Oct 2025 22:21

Instrument :

BNA_G

ClientSampleId :

MW-12

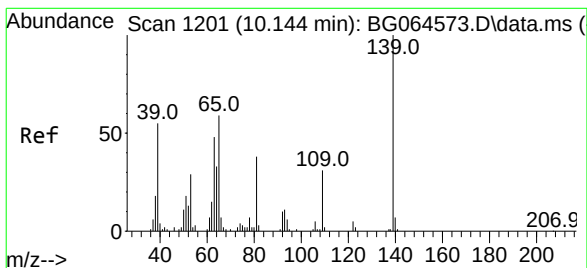
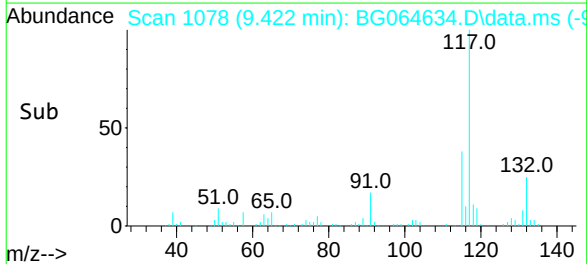
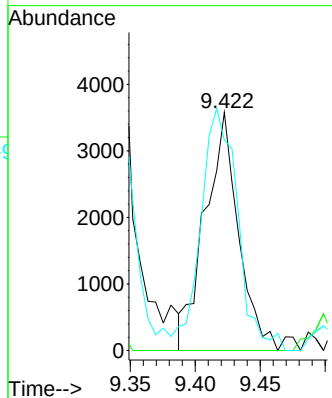
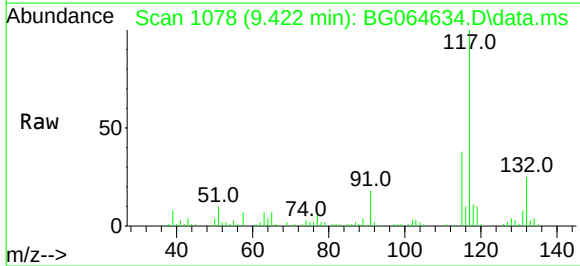
Tgt Ion: 77 Resp: 6383

Ion Ratio Lower Upper

77 100

123 0.0 31.0 46.6#

65 88.4 12.7 19.1#



#26

2-Nitrophenol

Concen: 3.202 ng

RT: 10.221 min Scan# 1214

Delta R.T. 0.073 min

Lab File: BG064634.D

Acq: 29 Oct 2025 22:21

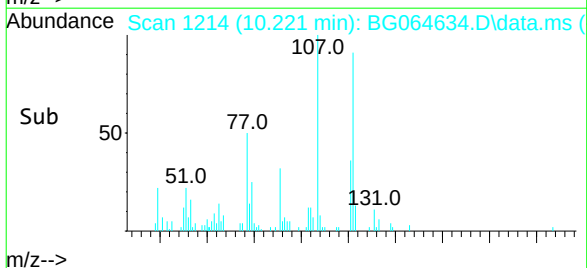
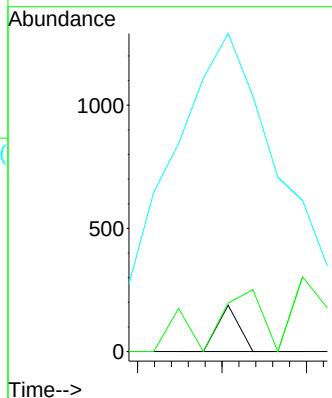
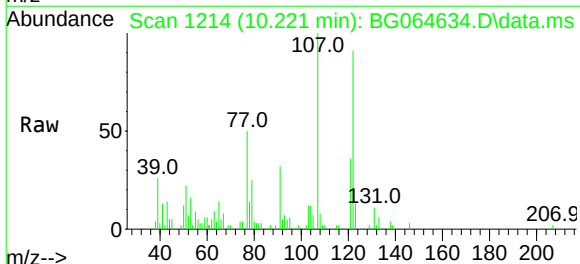
Tgt Ion: 139 Resp: 66

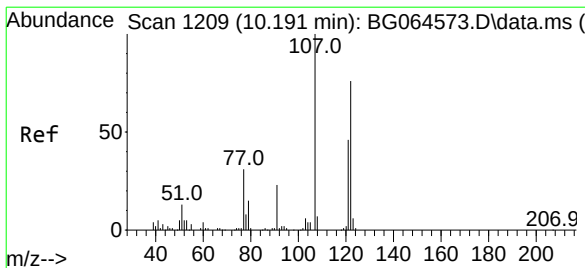
Ion Ratio Lower Upper

139 100

109 104.8 24.6 37.0#

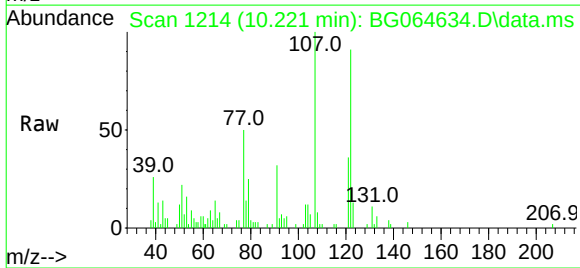
65 686.7 47.5 71.3#



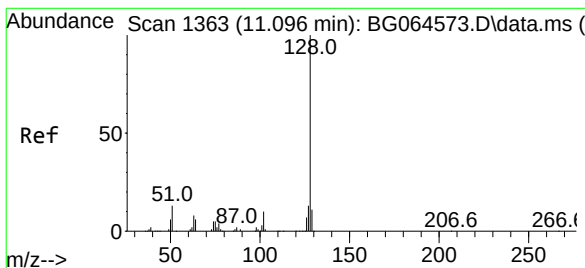
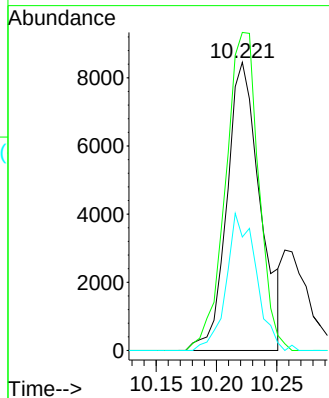
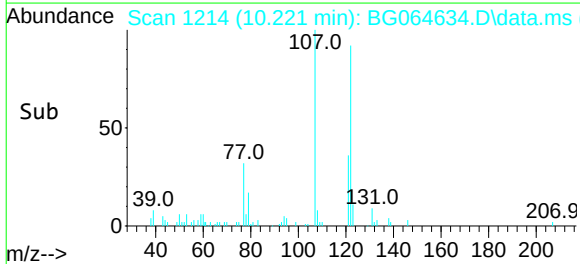


#27
2,4-Dimethylphenol
Concen: 8.640 ng
RT: 10.221 min Scan# 1209
Delta R.T. 0.027 min
Lab File: BG064634.D
Acq: 29 Oct 2025 22:21

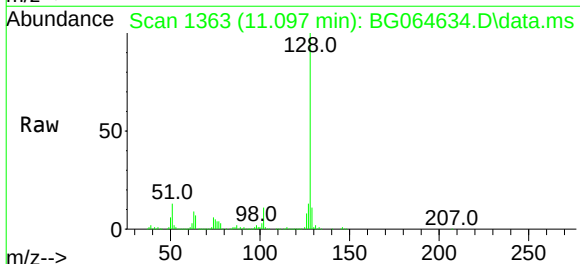
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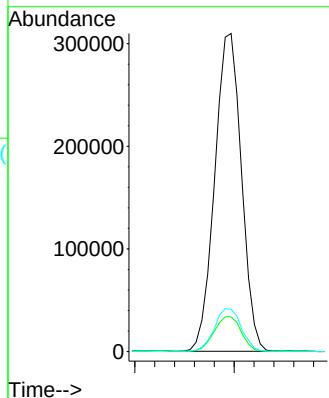
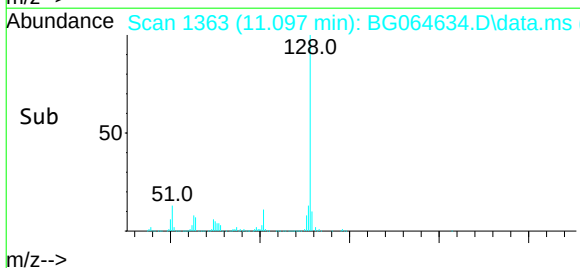
Tgt Ion:122 Resp: 16239
Ion Ratio Lower Upper
122 100
107 110.4 103.0 154.4
121 39.4 47.8 71.8#

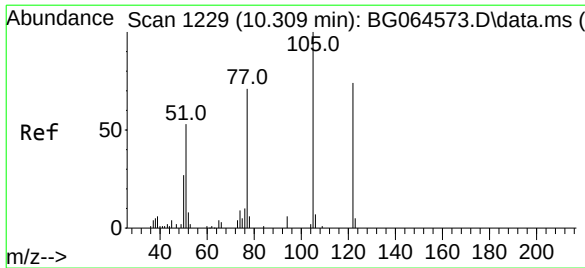


#31
Naphthalene
Concen: 84.119 ng
RT: 11.097 min Scan# 1363
Delta R.T. -0.003 min
Lab File: BG064634.D
Acq: 29 Oct 2025 22:21



Tgt Ion:128 Resp: 578269
Ion Ratio Lower Upper
128 100
129 10.9 8.8 13.2
127 13.3 10.6 15.8





#32

Benzoic acid

Concen: 17.183 ng

RT: 10.221 min Scan# 12

Delta R.T. -0.121 min

Lab File: BG064634.D

Acq: 29 Oct 2025 22:21

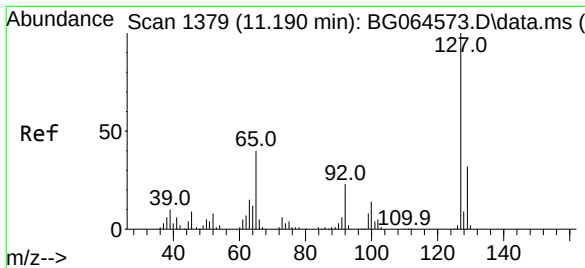
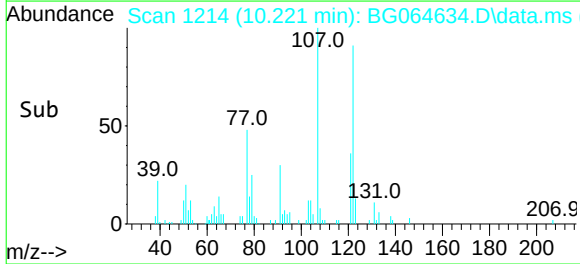
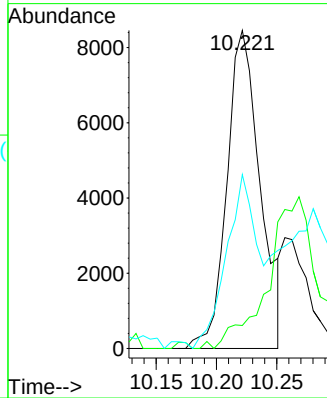
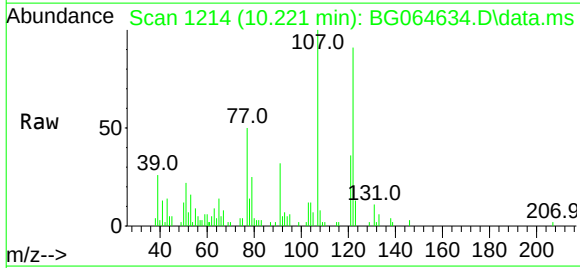
Instrument :

BNA_G

ClientSampleId :

MW-12

Tgt Ion:	122	Resp:	16239
Ion	Ratio	Lower	Upper
122	100		
105	7.2	104.2	144.2#
77	54.7	70.2	110.2#



#33

4-Chloroaniline

Concen: 29.575 ng

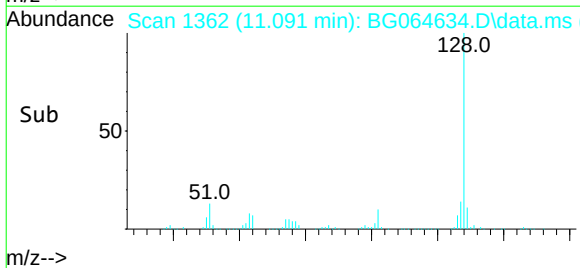
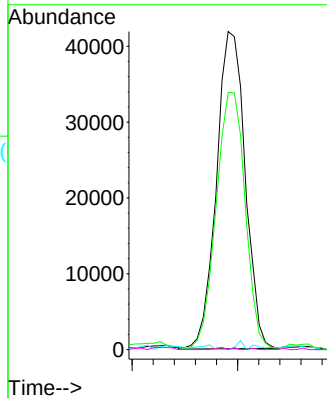
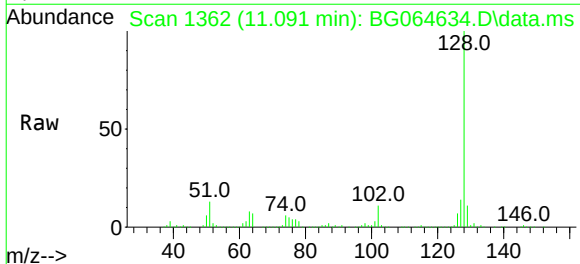
RT: 11.091 min Scan# 1362

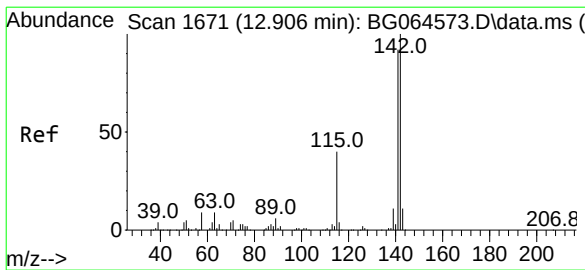
Delta R.T. -0.097 min

Lab File: BG064634.D

Acq: 29 Oct 2025 22:21

Tgt Ion:	127	Resp:	79024
Ion	Ratio	Lower	Upper
127	100		
129	80.8	25.5	38.3#
65	0.0	32.2	48.4#
92	0.0	18.2	27.2#





#38

1-Methylnaphthalene

Concen: 11.429 ng

RT: 12.901 min Scan# 16

Delta R.T. -0.008 min

Lab File: BG064634.D

Acq: 29 Oct 2025 22:21

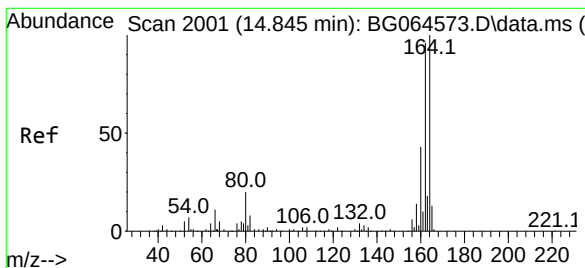
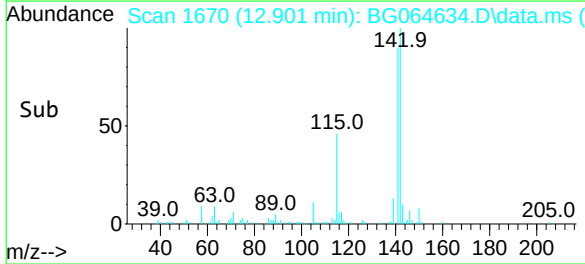
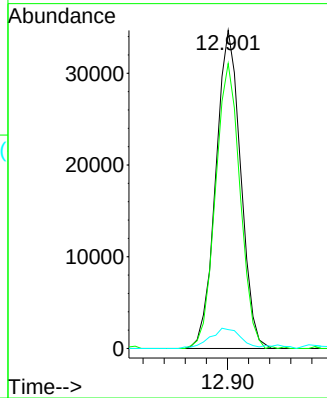
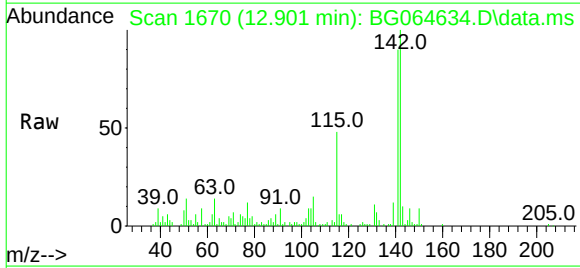
Instrument :

BNA_G

ClientSampleId :

MW-12

Tgt Ion:142 Resp: 56757
 Ion Ratio Lower Upper
 142 100
 141 89.6 73.3 109.9
 116 5.9 3.1 4.7#



#39

Acenaphthene-d10

Concen: 20.000 ng

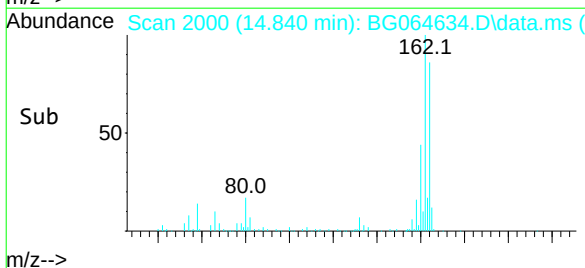
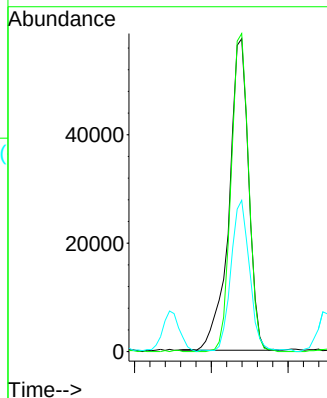
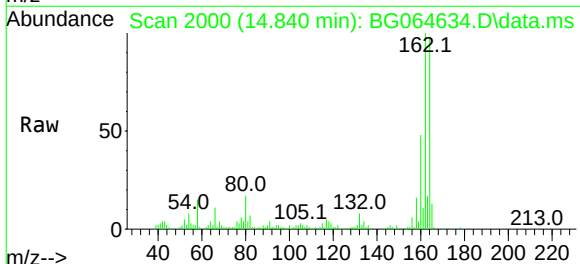
RT: 14.840 min Scan# 2000

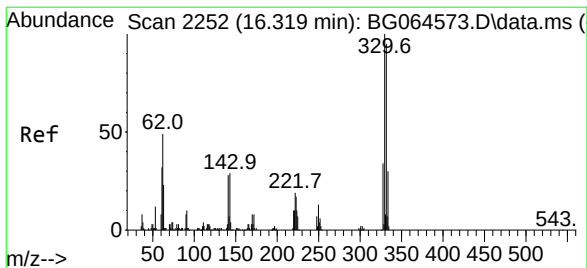
Delta R.T. -0.003 min

Lab File: BG064634.D

Acq: 29 Oct 2025 22:21

Tgt Ion:164 Resp: 102275
 Ion Ratio Lower Upper
 164 100
 162 101.6 77.0 115.6
 160 48.3 34.4 51.6





#42

2,4,6-Tribromophenol

Concen: 151.374 ng

RT: 16.314 min Scan# 22

Delta R.T. -0.009 min

Lab File: BG064634.D

Acq: 29 Oct 2025 22:21

Instrument :

BNA_G

ClientSampleId :

MW-12

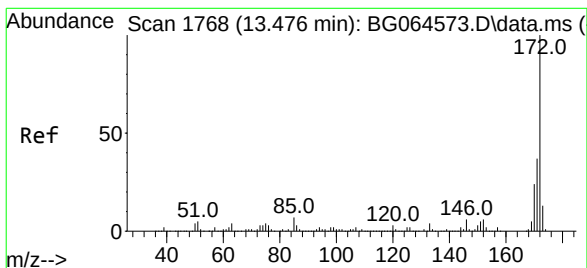
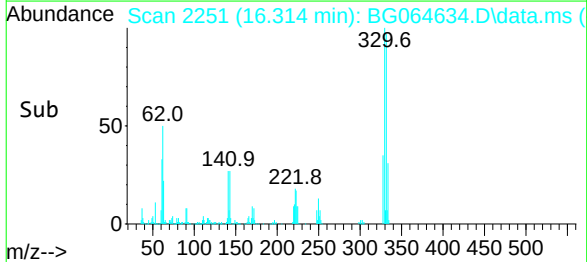
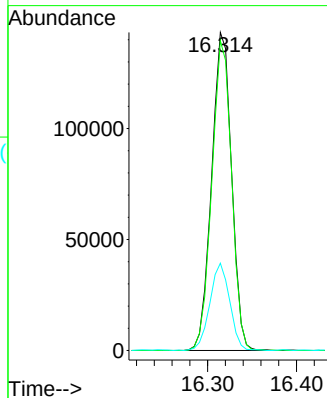
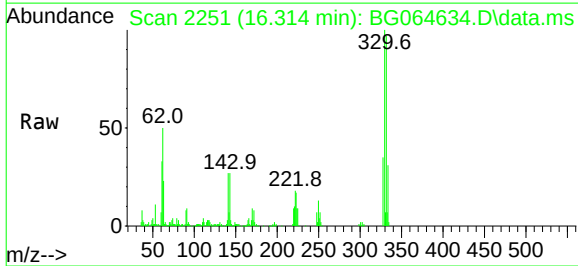
Tgt Ion:330 Resp: 223448

Ion Ratio Lower Upper

330 100

332 96.3 78.0 117.0

141 27.4 21.8 32.6



#45

2-Fluorobiphenyl

Concen: 86.319 ng

RT: 13.471 min Scan# 1767

Delta R.T. -0.008 min

Lab File: BG064634.D

Acq: 29 Oct 2025 22:21

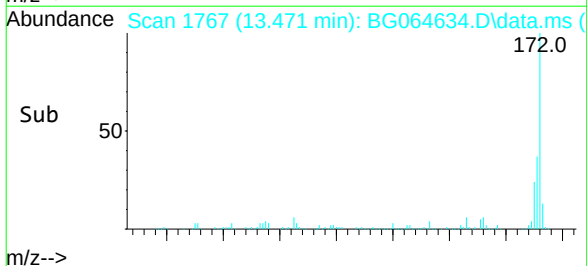
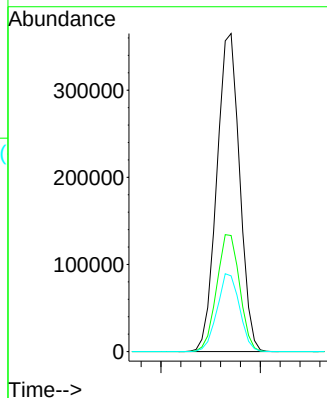
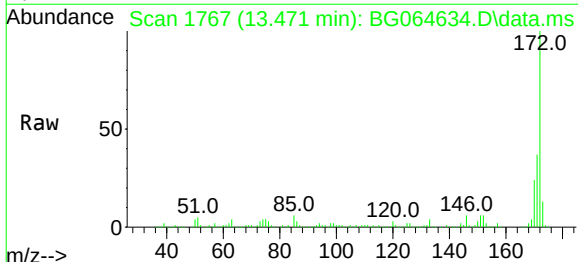
Tgt Ion:172 Resp: 582439

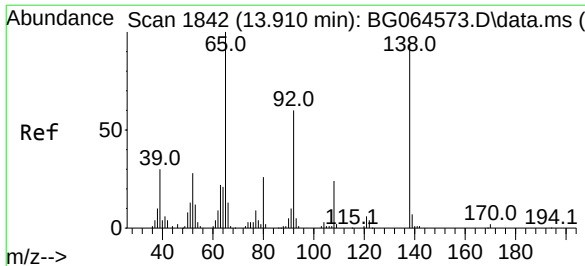
Ion Ratio Lower Upper

172 100

171 36.5 29.4 44.0

170 23.8 19.1 28.7





#48

2-Nitroaniline

Concen: 3.766 ng

RT: 13.899 min Scan# 18

Delta R.T. -0.015 min

Lab File: BG064634.D

Acq: 29 Oct 2025 22:21

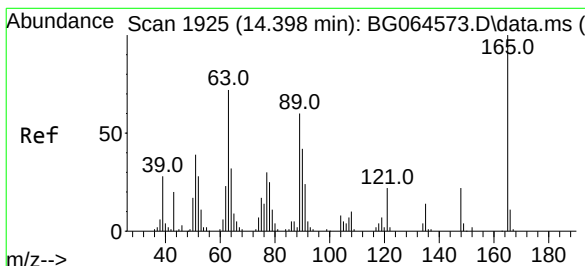
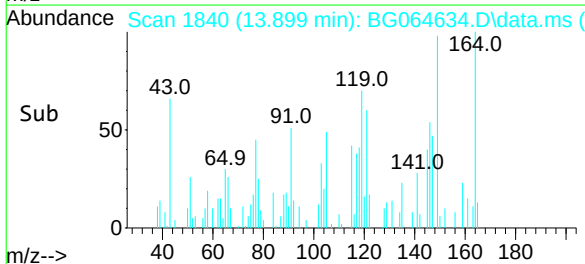
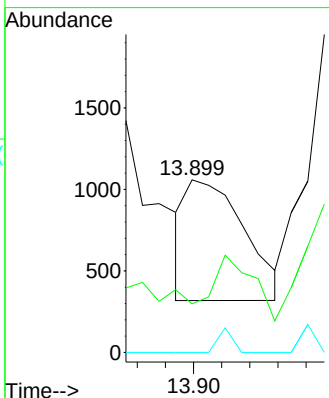
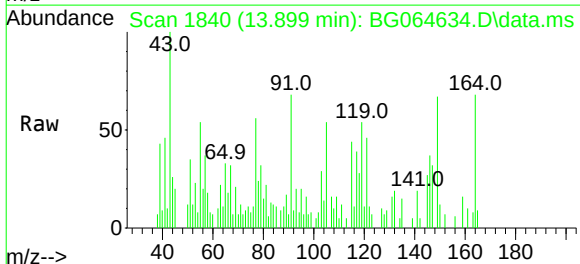
Instrument :

BNA_G

ClientSampleId :

MW-12

Tgt Ion:	65	Resp:	1069
Ion	Ratio	Lower	Upper
65	100		
92	28.1	48.3	72.5#
138	0.0	74.9	112.3#



#51

2,6-Dinitrotoluene

Concen: 4.687 ng

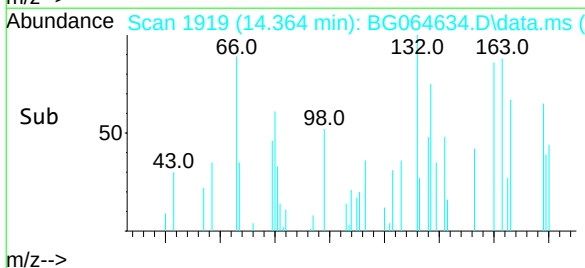
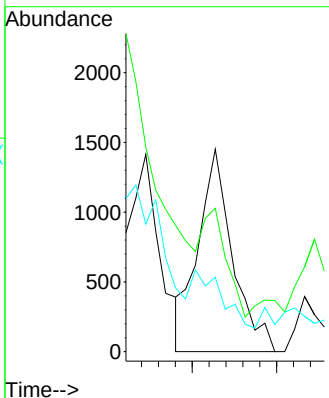
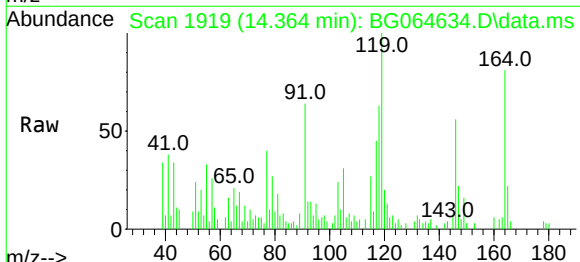
RT: 14.364 min Scan# 1919

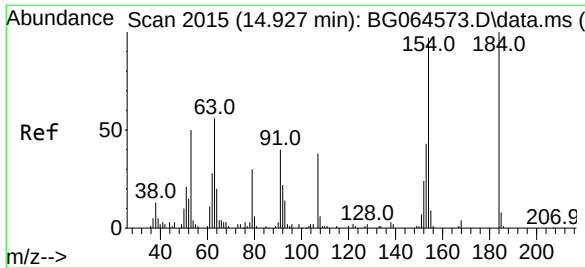
Delta R.T. -0.038 min

Lab File: BG064634.D

Acq: 29 Oct 2025 22:21

Tgt Ion:	165	Resp:	2066
Ion	Ratio	Lower	Upper
165	100		
63	70.8	57.4	86.0
89	36.7	47.8	71.8#

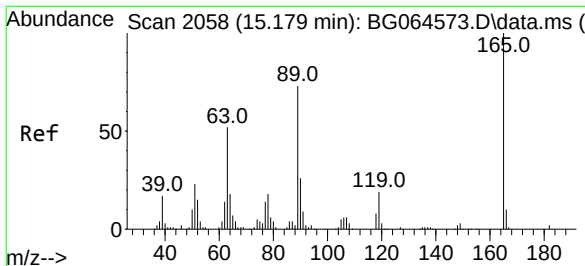
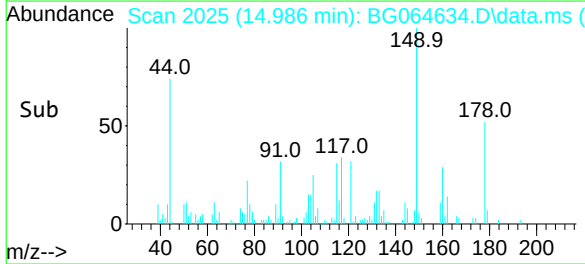
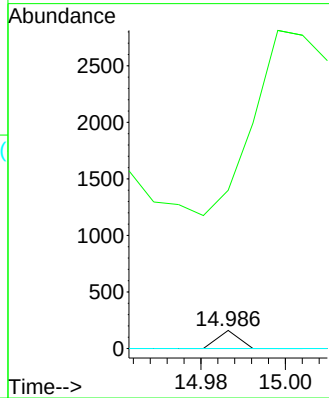
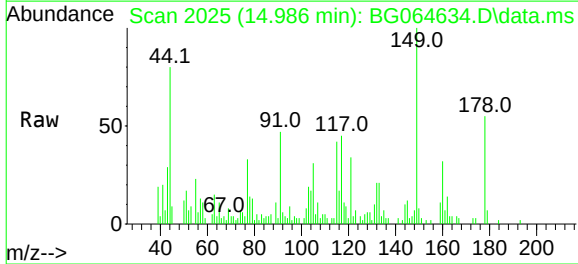




#54
2,4-Dinitrophenol
Concen: 5.638 ng
RT: 14.986 min Scan# 2015
Delta R.T. 0.056 min
Lab File: BG064634.D
Acq: 29 Oct 2025 22:21

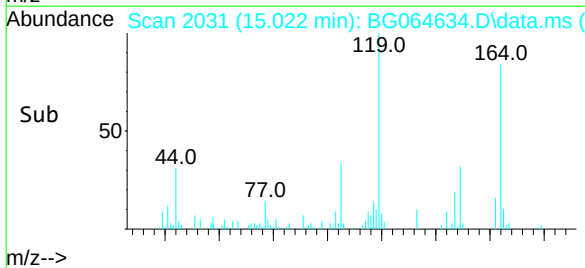
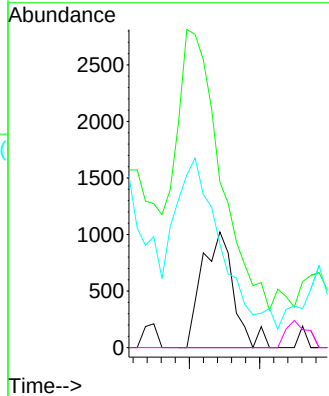
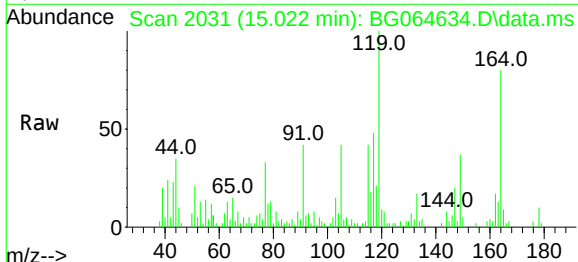
Instrument :
BNA_G
ClientSampleId :
MW-12

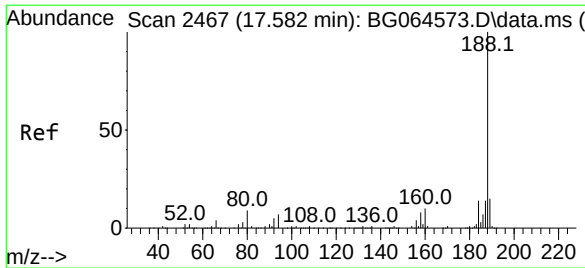
Tgt Ion	Ratio	Lower	Upper
184	100		
63	874.4	56.6	85.0#
154	0.0	158.6	238.0#



#57
2,4-Dinitrotoluene
Concen: 3.802 ng
RT: 15.022 min Scan# 2031
Delta R.T. -0.167 min
Lab File: BG064634.D
Acq: 29 Oct 2025 22:21

Tgt Ion	Ratio	Lower	Upper
165	100		
63	143.1	41.8	62.8#
89	89.4	58.1	87.1#
182	0.0	1.4	2.0#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.572 min Scan# 24

Delta R.T. -0.008 min

Lab File: BG064634.D

Acq: 29 Oct 2025 22:21

Instrument :

BNA_G

ClientSampleId :

MW-12

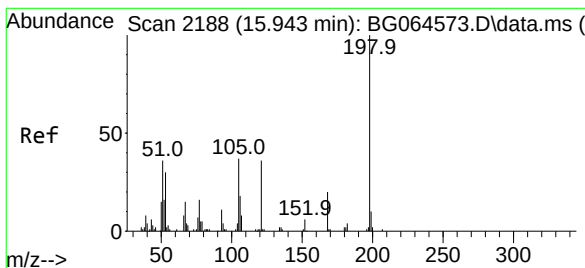
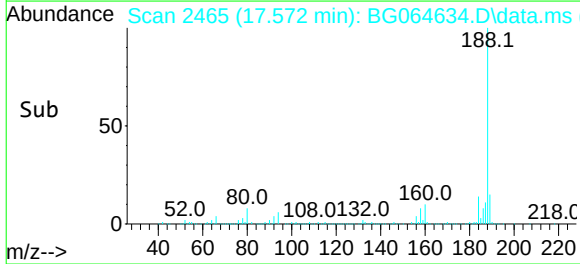
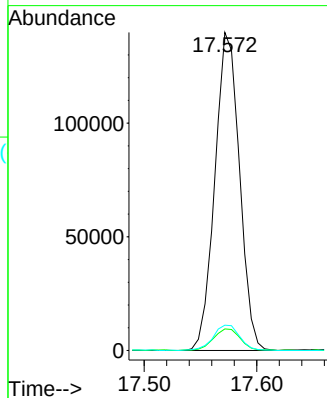
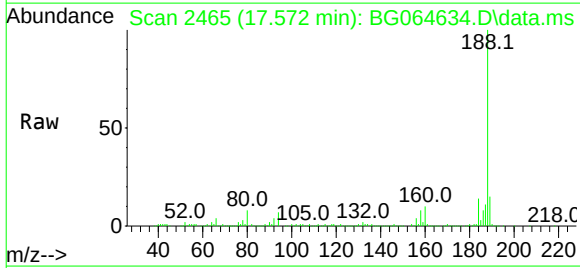
Tgt Ion:188 Resp: 212573

Ion Ratio Lower Upper

188 100

94 6.8 5.7 8.5

80 8.0 6.8 10.2



#65

4,6-Dinitro-2-methylphenol

Concen: 6.020 ng

RT: 16.314 min Scan# 2251

Delta R.T. 0.367 min

Lab File: BG064634.D

Acq: 29 Oct 2025 22:21

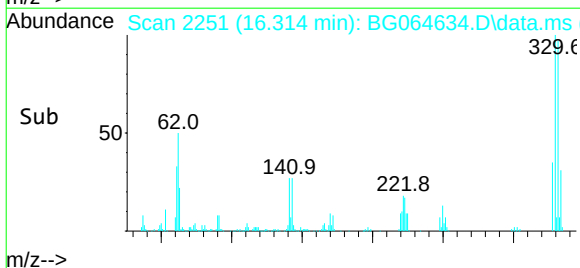
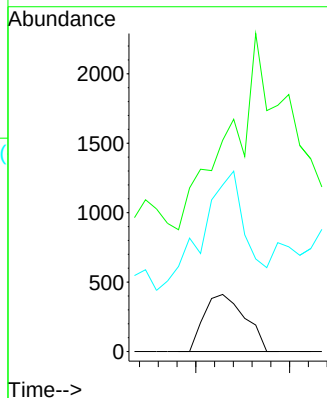
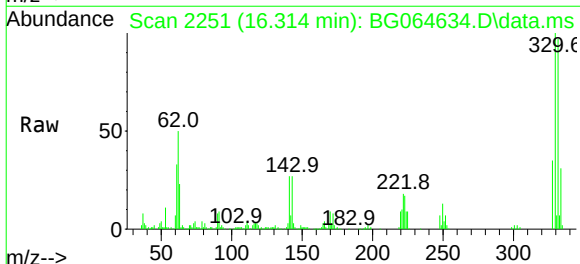
Tgt Ion:198 Resp: 626

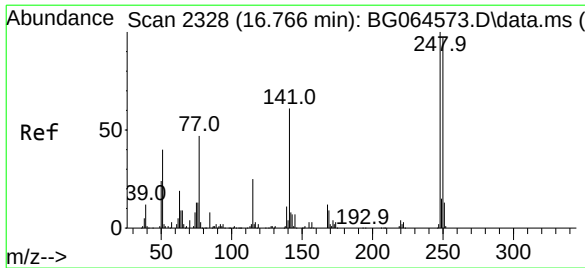
Ion Ratio Lower Upper

198 100

51 60.2 24.7 64.7

105 47.4 18.0 58.0





#67

4-Bromophenyl-phenylether

Concen: 5.757 ng

RT: 16.314 min Scan# 22

Delta R.T. -0.455 min

Lab File: BG064634.D

Acq: 29 Oct 2025 22:21

Instrument :

BNA_G

ClientSampleId :

MW-12

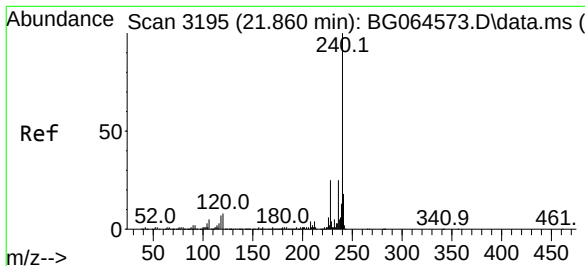
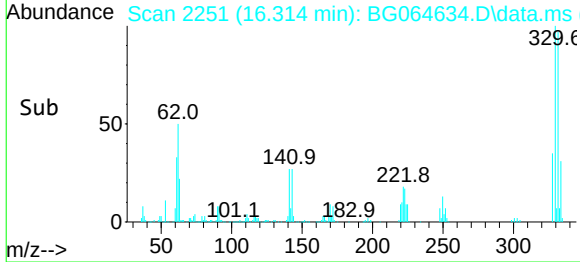
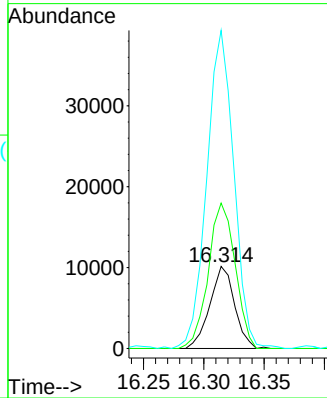
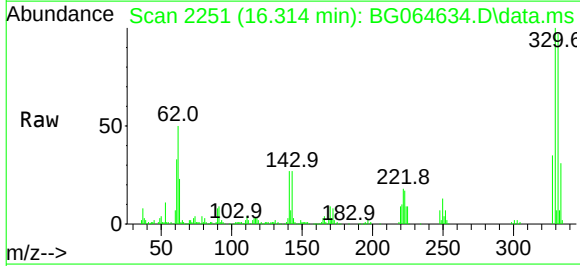
Tgt Ion:248 Resp: 14503

Ion Ratio Lower Upper

248 100

250 178.7 77.7 116.5#

141 302.3 48.6 72.8#



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.843 min Scan# 3192

Delta R.T. -0.020 min

Lab File: BG064634.D

Acq: 29 Oct 2025 22:21

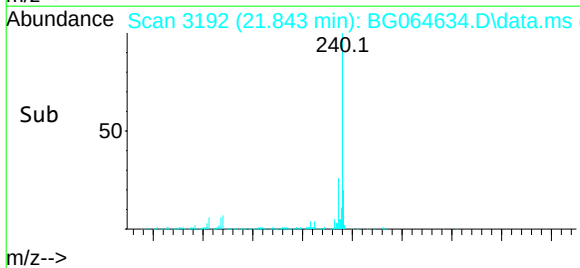
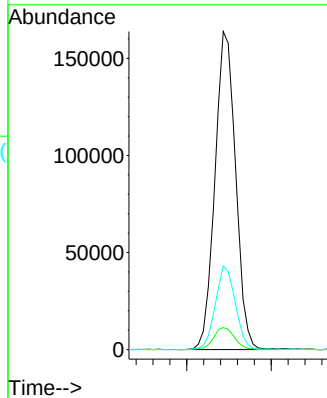
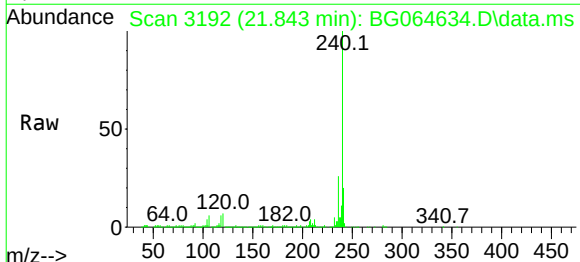
Tgt Ion:240 Resp: 278839

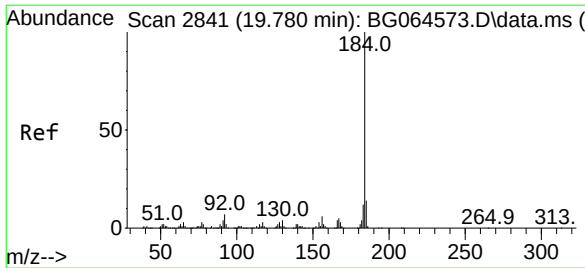
Ion Ratio Lower Upper

240 100

120 6.9 6.5 9.7

236 26.3 20.2 30.2





#77

Benzidine

Concen: 3.601 ng

RT: 20.169 min Scan# 2907

Delta R.T. 0.385 min

Lab File: BG064634.D

Acq: 29 Oct 2025 22:21

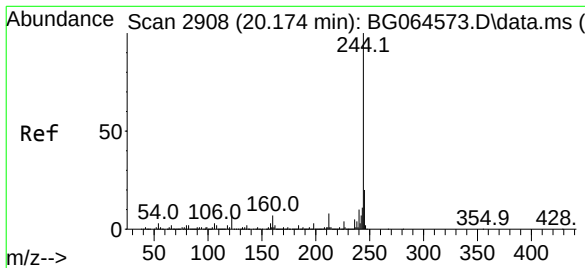
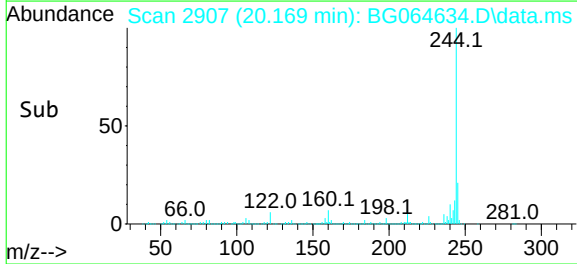
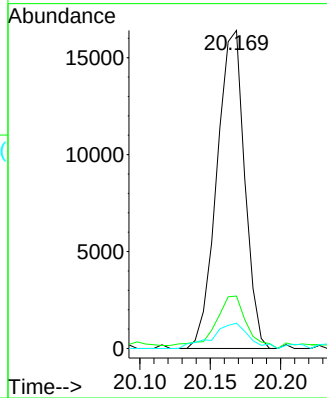
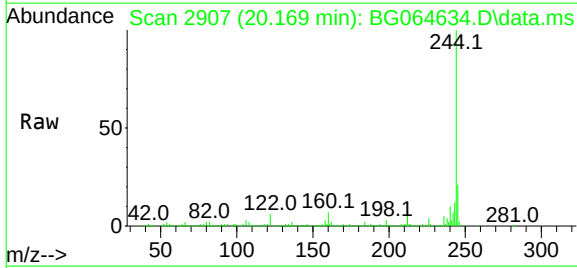
Instrument :

BNA_G

ClientSampleId :

MW-12

Tgt Ion:	184	Resp:	22497
Ion Ratio	Lower	Upper	
184	100		
185	16.5	11.4	17.2
183	8.0	9.4	14.2#



#79

Terphenyl-d14

Concen: 92.344 ng

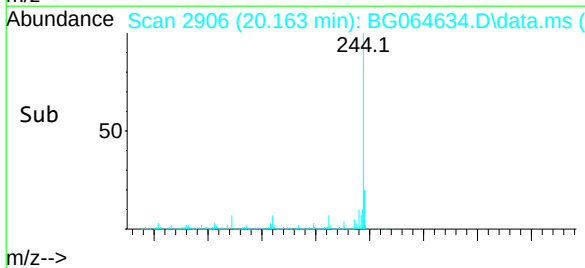
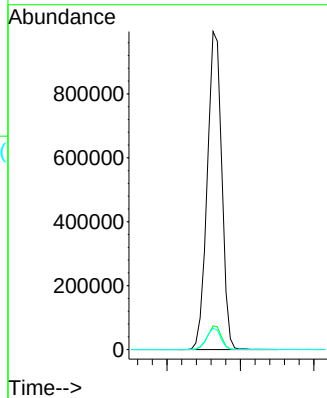
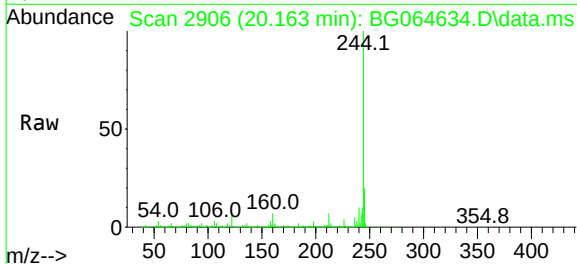
RT: 20.163 min Scan# 2906

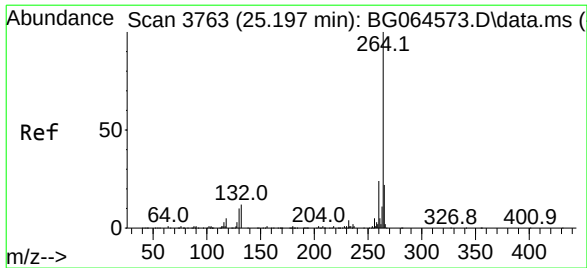
Delta R.T. -0.014 min

Lab File: BG064634.D

Acq: 29 Oct 2025 22:21

Tgt Ion:	244	Resp:	1364433
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: 25.186 min Scan# 37
 Delta R.T. -0.014 min
 Lab File: BG064634.D
 Acq: 29 Oct 2025 22:21

Instrument :
 BNA_G
 ClientSampleId :
 MW-12

Tgt Ion:264	Resp: 309539
Ion Ratio	Lower Upper
264 100	
260 25.1	19.0 28.4
265 21.4	17.6 26.4

