

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG102025\
 Data File : BG064551.D
 Acq On : 20 Oct 2025 16:02
 Operator : RC/JU
 Sample : Q3390-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 340

Quant Time: Oct 20 16:38:41 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 02 16:40:42 2025
 Response via : Initial Calibration

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

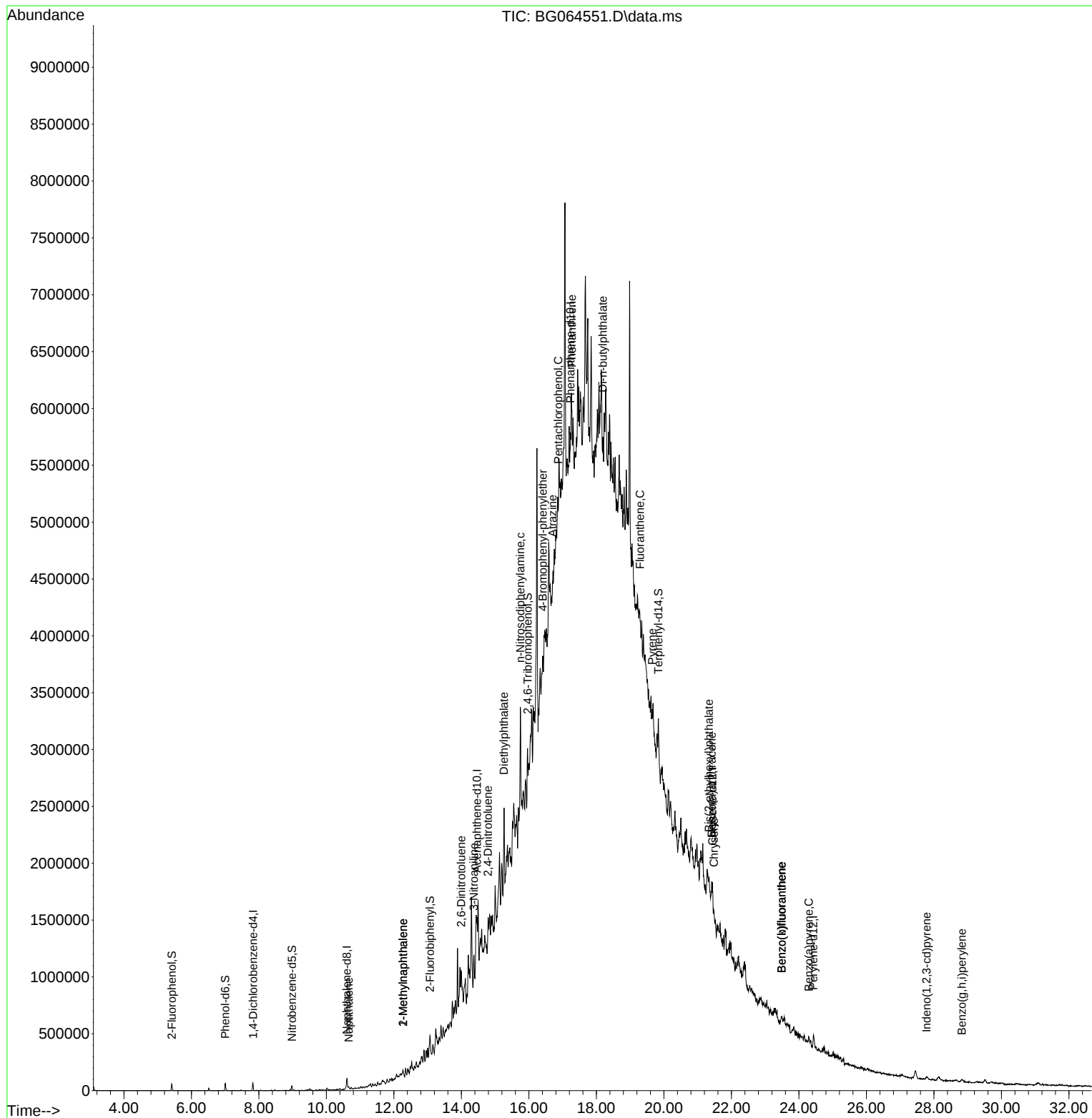
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	17561	20.000	ng	# 0.00
21) Naphthalene-d8	10.605	136	71490	20.000	ng	# 0.00
39) Acenaphthene-d10	14.459	164	57689	20.000	ng	0.01
64) Phenanthrene-d10	17.226	188	129353	20.000	ng	# 0.04
76) Chrysene-d12	21.439	240	109943	20.000	ng	0.03
86) Perylene-d12	24.430	264	109966	20.000	ng	# 0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.416	112	23227	24.478	ng	0.01
7) Phenol-d6	7.003	99	33797	26.504	ng	0.02
23) Nitrobenzene-d5	8.977	82	24238	18.230	ng	0.01
42) 2,4,6-Tribromophenol	15.963	330	24329	23.266	ng	0.03
45) 2-Fluorobiphenyl	13.072	172	65192	16.657	ng	0.00
79) Terphenyl-d14	19.835	244	134149	23.092	ng	0.03
Target Compounds						Qvalue
31) Naphthalene	10.657	128	10498	2.852	ng	# 91
37) 2-Methylnaphthalene	12.273	142	19215	6.800	ng	95
38) 1-Methylnaphthalene	12.273	142	19215	6.819	ng	98
51) 2,6-Dinitrotoluene	13.995	165	17161	18.233	ng	# 21
53) 3-Nitroaniline	14.371	138	8273	9.531	ng	# 28
57) 2,4-Dinitrotoluene	14.788	165	4061	2.822	ng	# 47
60) Diethylphthalate	15.258	149	16226	3.348	ng	# 33
66) n-Nitrosodiphenylamine	15.746	169	14177	4.104	ng	# 69
67) 4-Bromophenyl-phenylether	16.409	248	4548	2.988	ng	# 1
69) Atrazine	16.697	200	16558	10.774	ng	# 1
70) Pentachlorophenol	16.874	266	3203	3.145	ng	# 46
71) Phenanthrene	17.267	178	57486	8.498	ng	# 1
74) Di-n-butylphthalate	18.190	149	16949	2.367	ng	# 30
75) Fluoranthene	19.288	202	105596	13.067	ng	78
78) Pyrene	19.647	202	104613	14.662	ng	# 85
81) Benzo(a)anthracene	21.415	228	47857	6.817	ng	# 89
83) Chrysene	21.480	228	50506	7.586	ng	# 91
84) Bis(2-ethylhexyl)phtha...	21.333	149	10309	2.889	ng	# 32
87) Indeno(1,2,3-cd)pyrene	27.779	276	31912	4.169	ng	# 56
88) Benzo(b)fluoranthene	23.489	252	66431	10.619	ng	# 69
89) Benzo(k)fluoranthene	23.489	252	66431	10.543	ng	# 70
90) Benzo(a)pyrene	24.288	252	41514	7.200	ng	# 69
92) Benzo(g,h,i)perylene	28.824	276	14679	2.468	ng	# 90

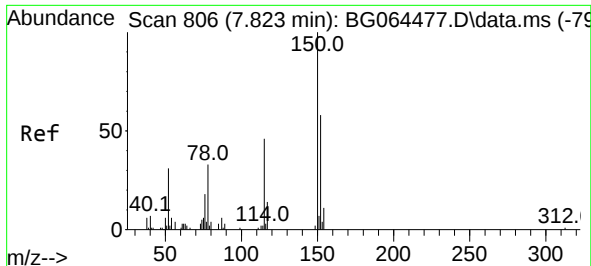
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG102025\
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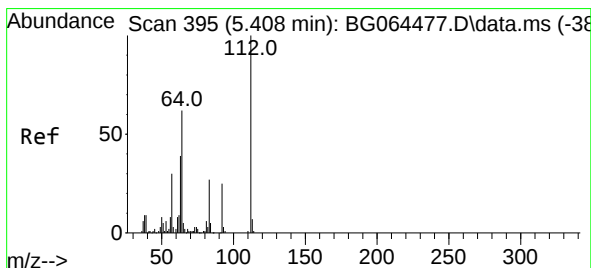
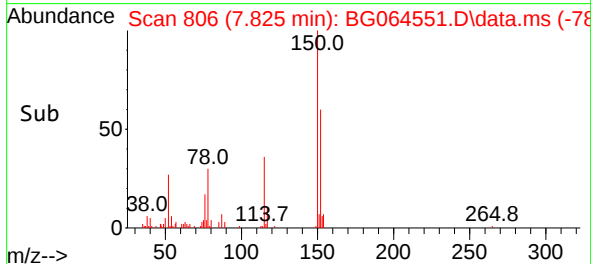
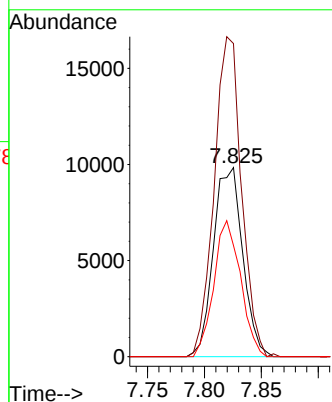
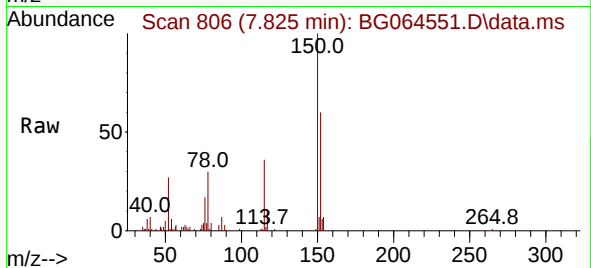




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.825 min Scan# 806
Delta R.T. 0.005 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02

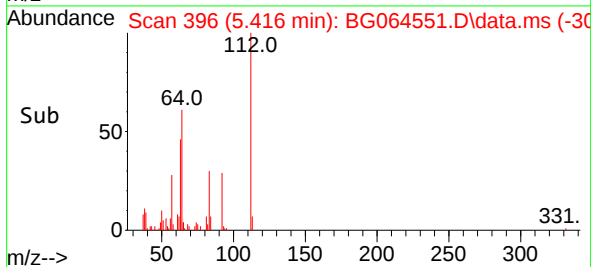
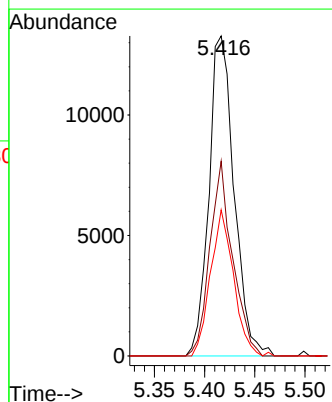
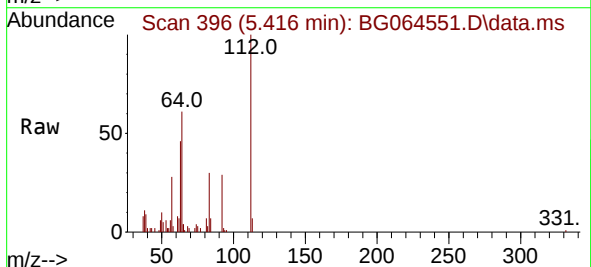
Instrument :
BNA_G
ClientSampleId :
340

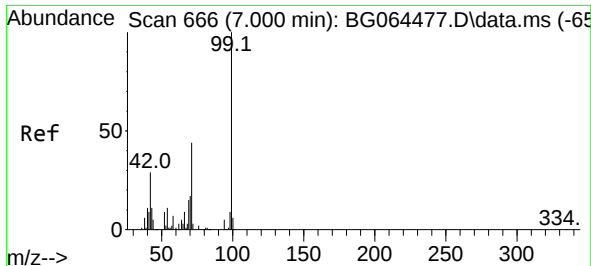
Tgt Ion:152 Resp: 17561
Ion Ratio Lower Upper
152 100
150 165.5 138.6 207.8
115 58.8 63.4 95.2#



#5
2-Fluorophenol
Concen: 24.478 ng
RT: 5.416 min Scan# 396
Delta R.T. 0.011 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02

Tgt Ion:112 Resp: 23227
Ion Ratio Lower Upper
112 100
64 60.9 49.8 74.8
63 45.7 31.3 46.9

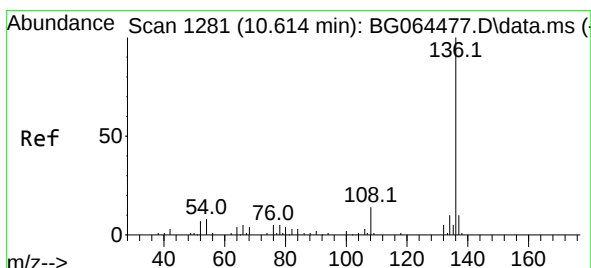
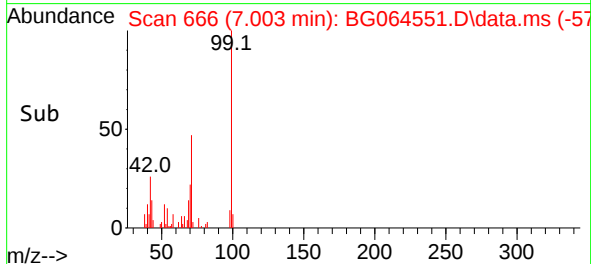
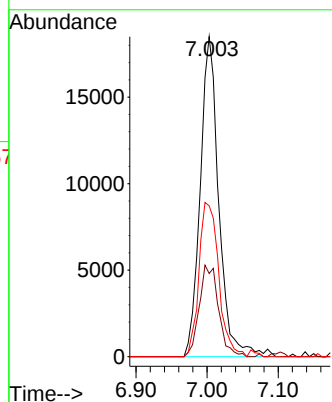
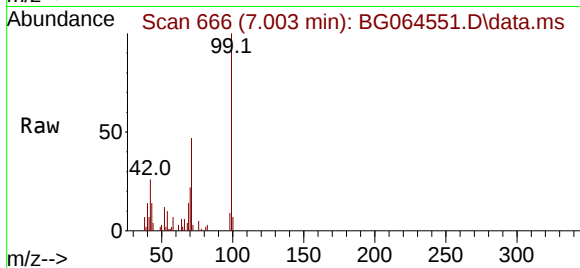




#7
Phenol-d6
Concen: 26.504 ng
RT: 7.003 min Scan# 61
Delta R.T. 0.017 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02

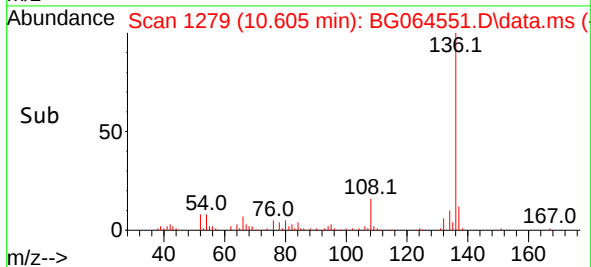
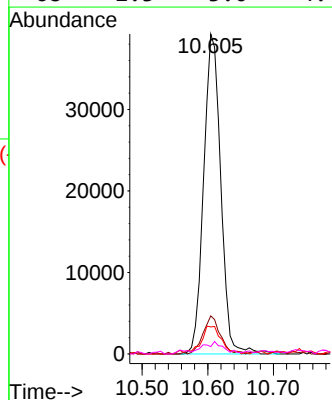
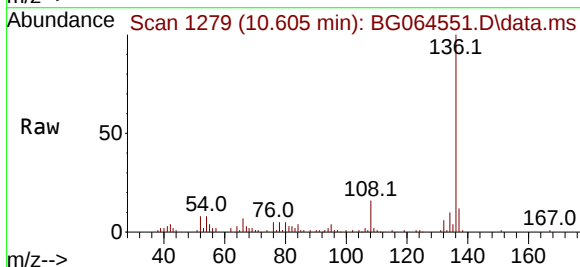
Instrument :
BNA_G
ClientSampleId :
340

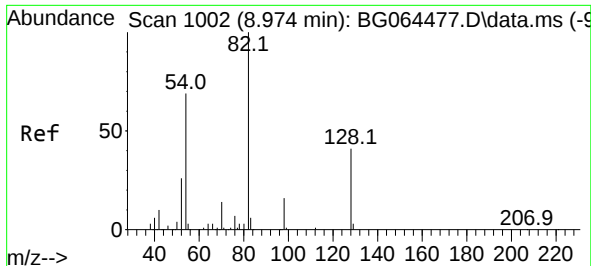
Tgt Ion: 99 Resp: 33797
Ion Ratio Lower Upper
99 100
42 26.0 22.9 34.3
71 47.2 35.4 53.2



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.605 min Scan# 1279
Delta R.T. -0.001 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02

Tgt Ion: 136 Resp: 71490
Ion Ratio Lower Upper
136 100
137 11.9 8.3 12.5
54 8.4 6.2 9.4
68 2.3 3.0 4.4#

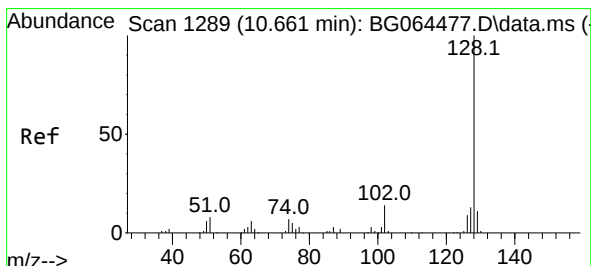
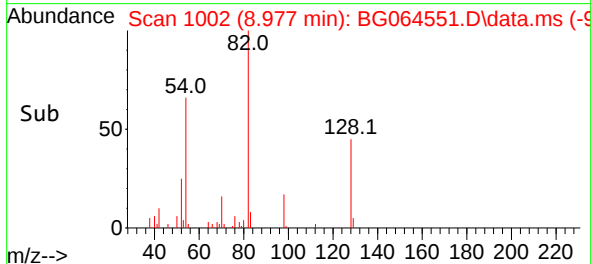
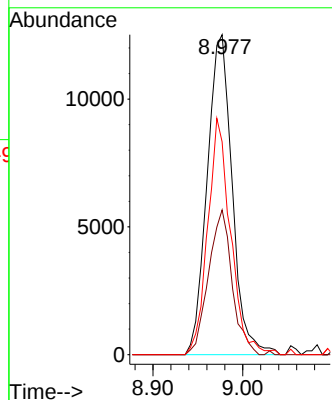
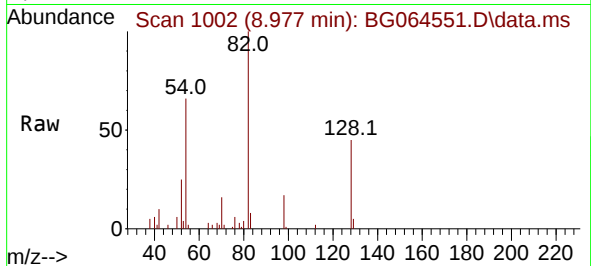




#23
Nitrobenzene-d5
Concen: 18.230 ng
RT: 8.977 min Scan# 1002
Delta R.T. 0.011 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02

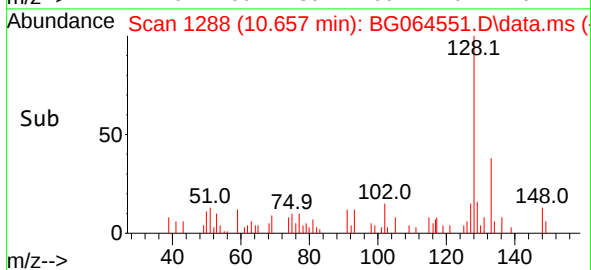
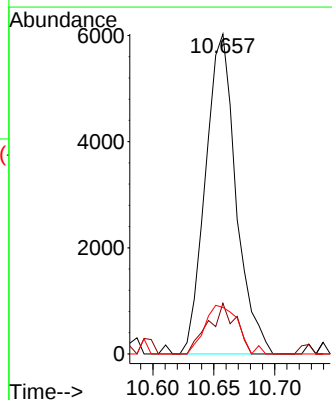
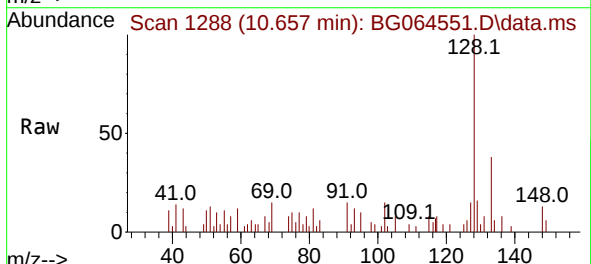
Instrument :
BNA_G
ClientSampleId :
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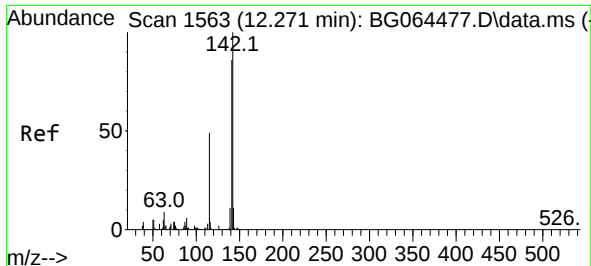
Tgt Ion: 82 Resp: 24238
Ion Ratio Lower Upper
82 100
128 45.3 33.1 49.7
54 66.5 55.4 83.2



#31
Naphthalene
Concen: 2.852 ng
RT: 10.657 min Scan# 1288
Delta R.T. 0.005 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02

Tgt Ion:128 Resp: 10498
Ion Ratio Lower Upper
128 100
129 15.9 8.7 13.1#
127 14.5 10.2 15.2

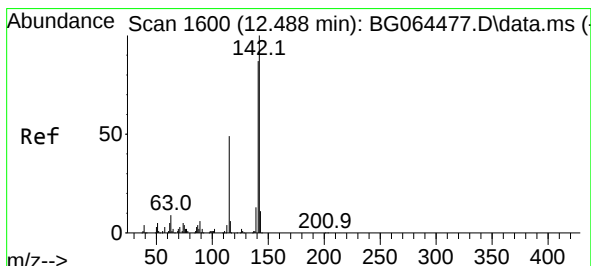
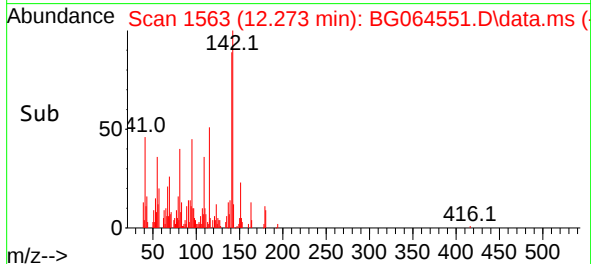
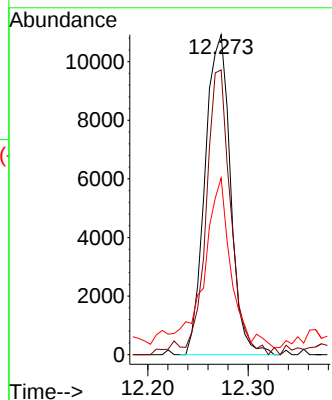
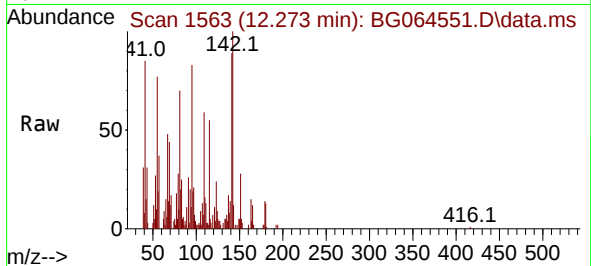




#37
2-Methylnaphthalene
Concen: 6.800 ng
RT: 12.273 min Scan# 1563
Delta R.T. 0.005 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02

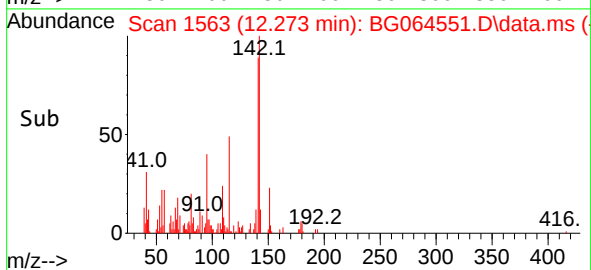
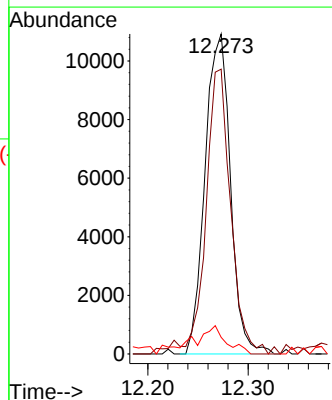
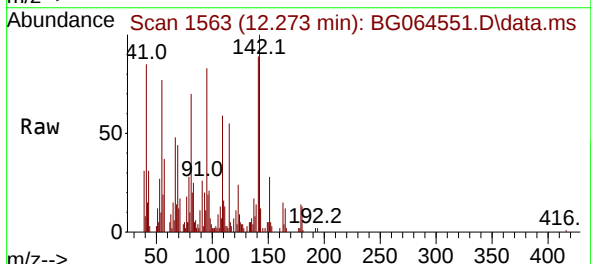
Instrument :
BNA_G
ClientSampleId :
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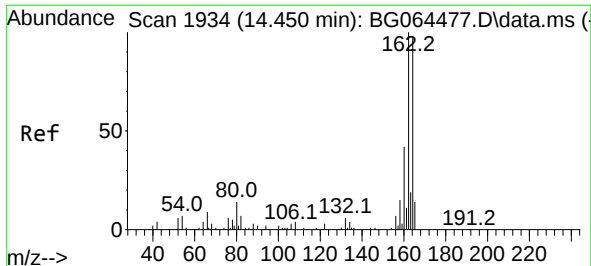
Tgt Ion:	142	Resp:	19215
Ion Ratio	Lower	Upper	
142	100		
141	89.0	68.7	103.1
115	55.2	39.3	58.9



#38
1-Methylnaphthalene
Concen: 6.819 ng
RT: 12.273 min Scan# 1563
Delta R.T. -0.212 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02

Tgt Ion:	142	Resp:	19215
Ion Ratio	Lower	Upper	
142	100		
141	89.0	69.8	104.8
116	5.2	4.6	6.8

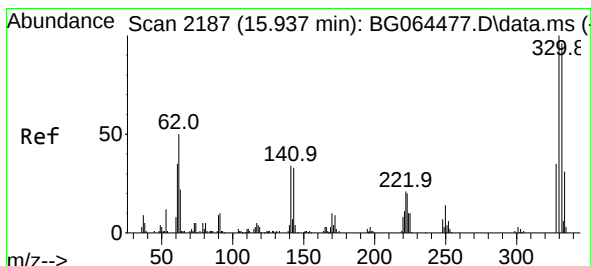
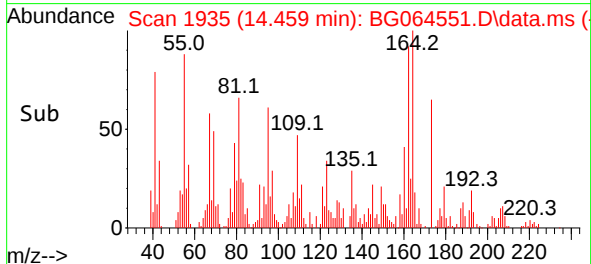
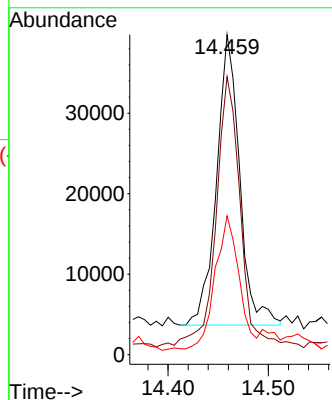
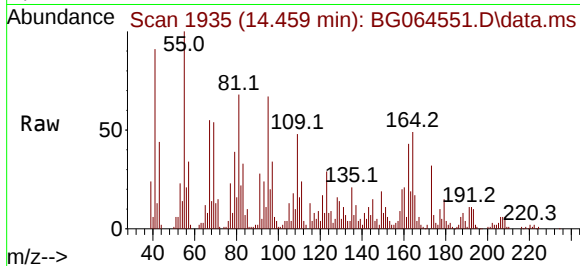




#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 14.459 min Scan# 1935
 Delta R.T. 0.011 min
 Lab File: BG064551.D
 Acq: 20 Oct 2025 16:02

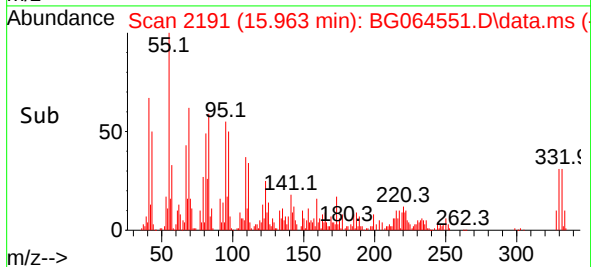
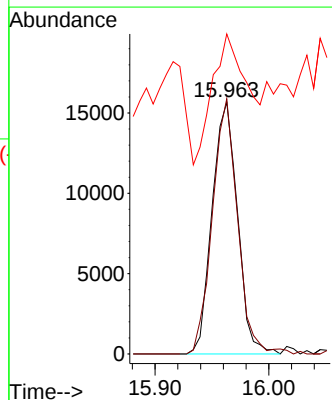
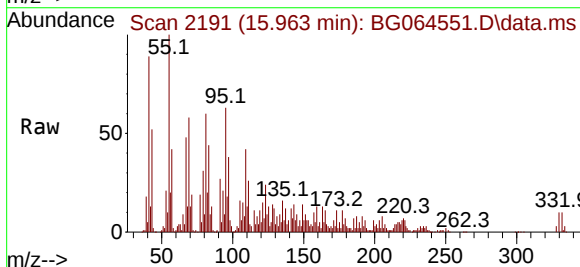
Instrument :
 BNA_G
 ClientSampleId :
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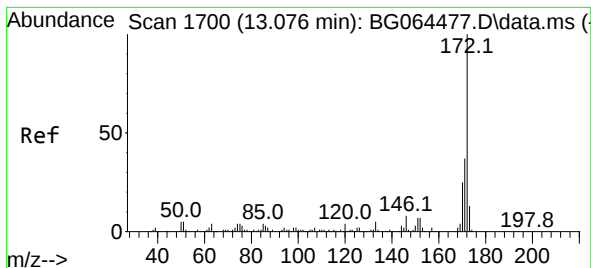
Tgt Ion:164 Resp: 57689
 Ion Ratio Lower Upper
 164 100
 162 86.8 82.2 123.2
 160 43.4 34.3 51.5



#42
 2,4,6-Tribromophenol
 Concen: 23.266 ng
 RT: 15.963 min Scan# 2191
 Delta R.T. 0.028 min
 Lab File: BG064551.D
 Acq: 20 Oct 2025 16:02

Tgt Ion:330 Resp: 24329
 Ion Ratio Lower Upper
 330 100
 332 100.6 77.4 116.0
 141 72.4 25.8 38.6#





#45

2-Fluorobiphenyl

Concen: 16.657 ng

RT: 13.072 min Scan# 1

Delta R.T. 0.005 min

Lab File: BG064551.D

Acq: 20 Oct 2025 16:02

Instrument :

BNA_G

ClientSampleId :

340

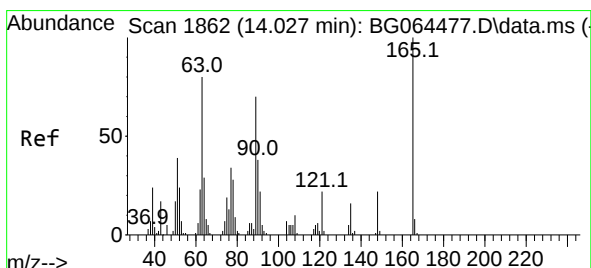
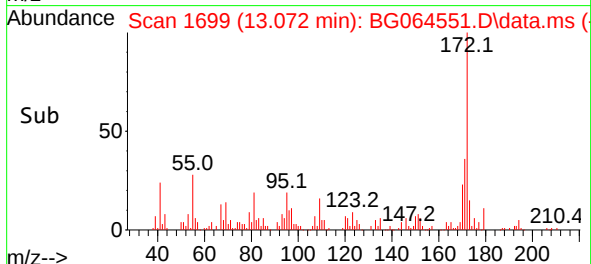
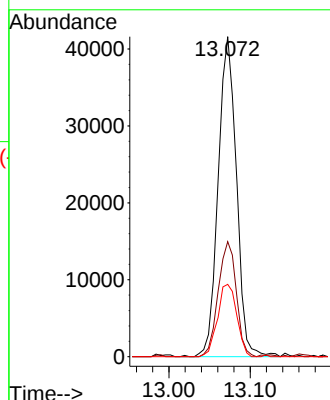
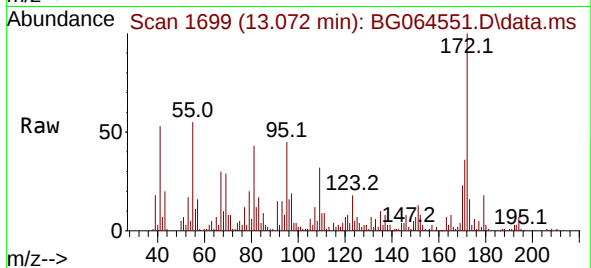
Tgt Ion:172 Resp: 65192

Ion Ratio Lower Upper

172 100

171 36.0 29.6 44.4

170 22.6 20.2 30.2



#51

2,6-Dinitrotoluene

Concen: 18.233 ng

RT: 13.995 min Scan# 1856

Delta R.T. -0.024 min

Lab File: BG064551.D

Acq: 20 Oct 2025 16:02

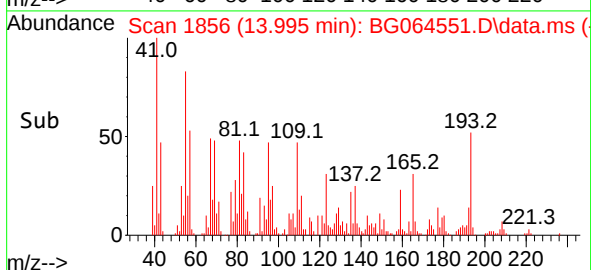
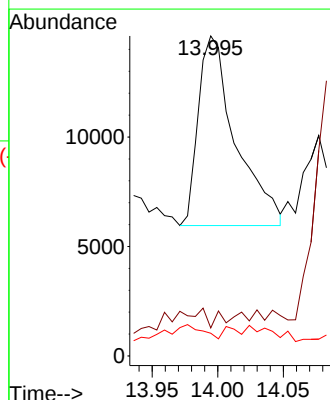
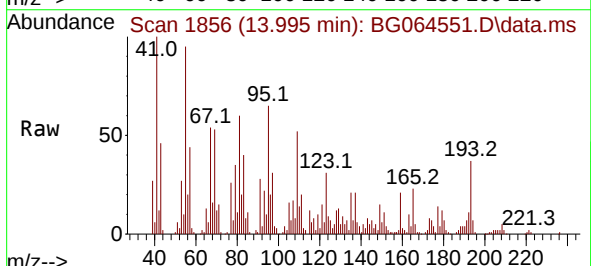
Tgt Ion:165 Resp: 17161

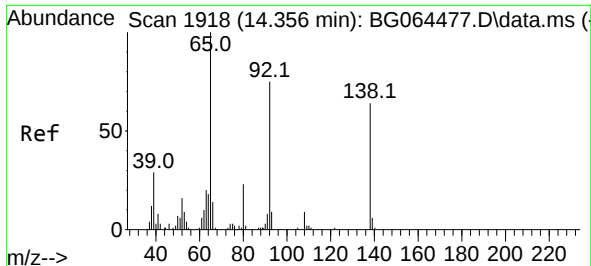
Ion Ratio Lower Upper

165 100

63 8.8 63.9 95.9#

89 7.1 56.1 84.1#

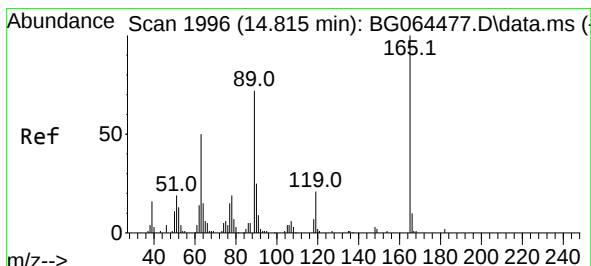
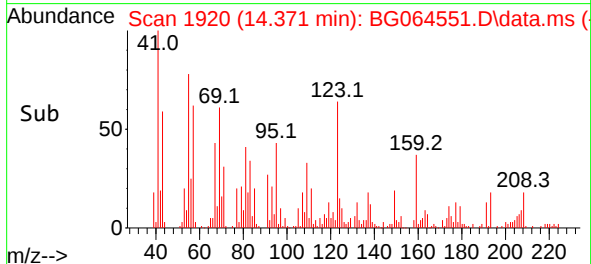
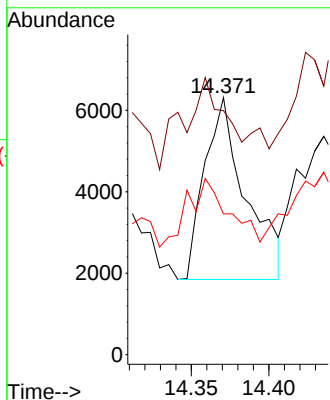
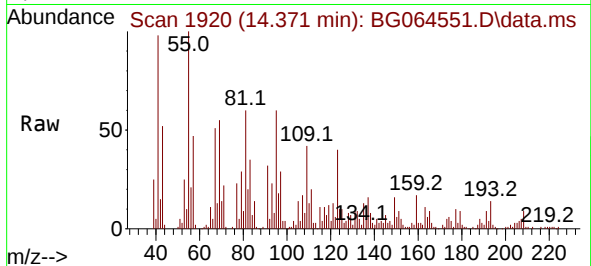




#53
3-Nitroaniline
Concen: 9.531 ng
RT: 14.371 min Scan# 1918
Delta R.T. 0.023 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02

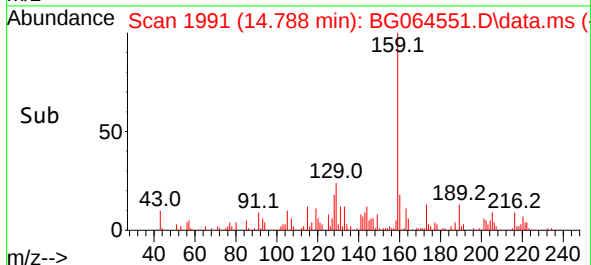
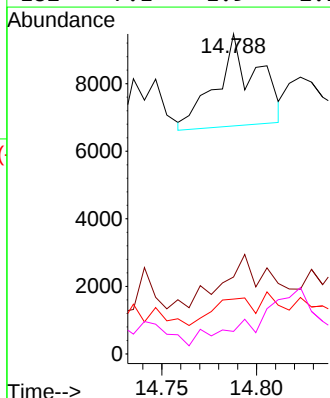
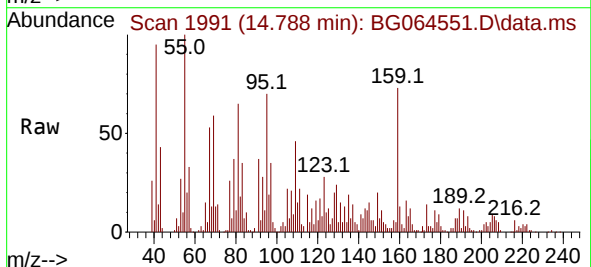
Instrument :
BNA_G
ClientSampleId :
340

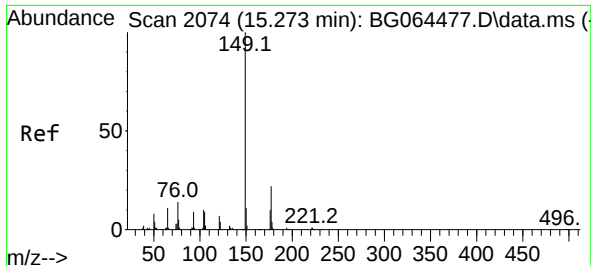
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Ion Ratio Lower Upper
138 100
108 94.9 10.6 15.8#
92 54.7 93.2 139.8#



#57
2,4-Dinitrotoluene
Concen: 2.822 ng
RT: 14.788 min Scan# 1991
Delta R.T. -0.024 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02

Tgt Ion:165 Resp: 4061
Ion Ratio Lower Upper
165 100
63 24.0 40.4 60.6#
89 17.2 57.3 85.9#
182 7.1 1.9 2.9#

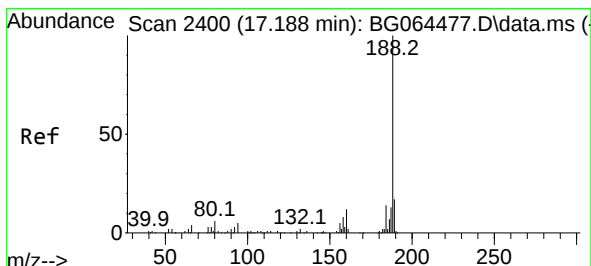
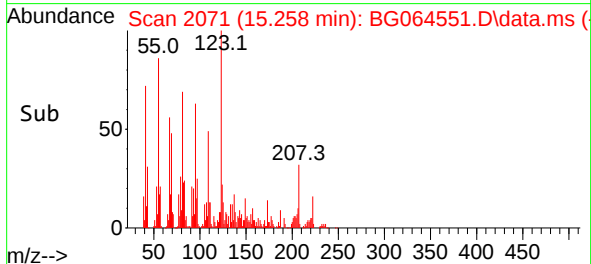
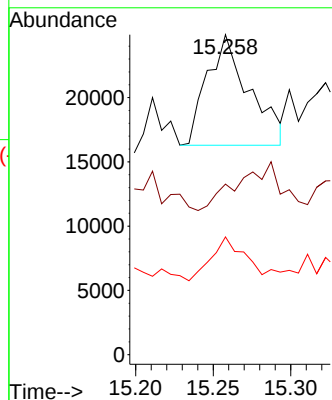
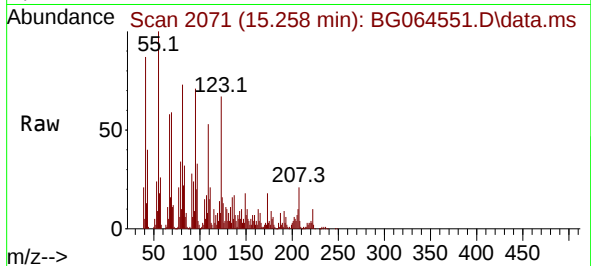




#60
Diethylphthalate
Concen: 3.348 ng
RT: 15.258 min Scan# 2071
Delta R.T. -0.013 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02

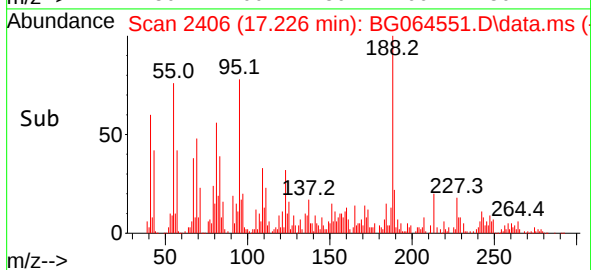
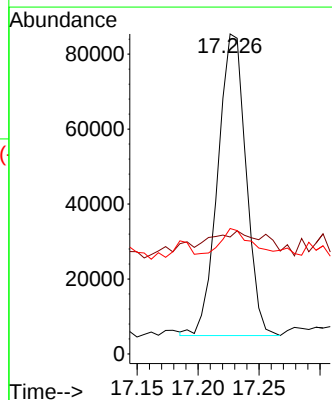
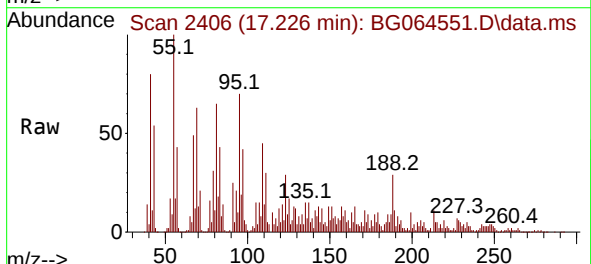
Instrument :
BNA_G
ClientSampleId :
340

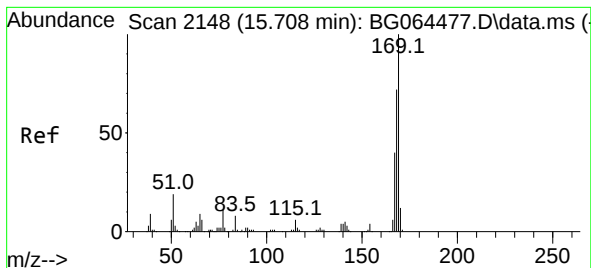
Tgt Ion:149 Resp: 16226
Ion Ratio Lower Upper
149 100
177 53.3 17.4 26.0#
150 36.8 9.1 13.7#



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.226 min Scan# 2406
Delta R.T. 0.040 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02

Tgt Ion:188 Resp: 129353
Ion Ratio Lower Upper
188 100
94 36.6 3.7 5.5#
80 39.2 4.5 6.7#

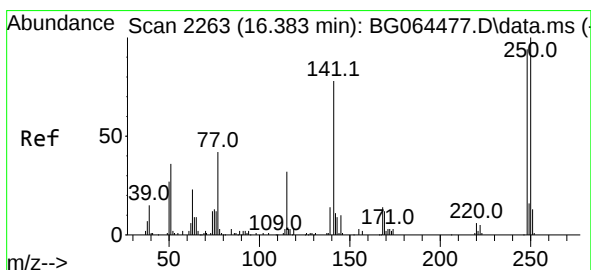
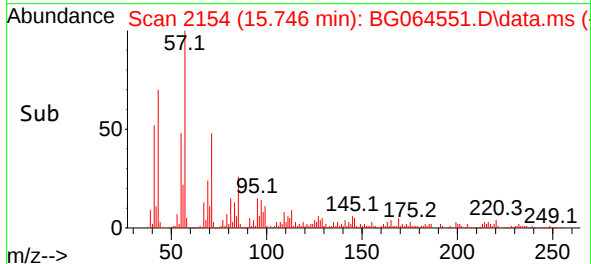
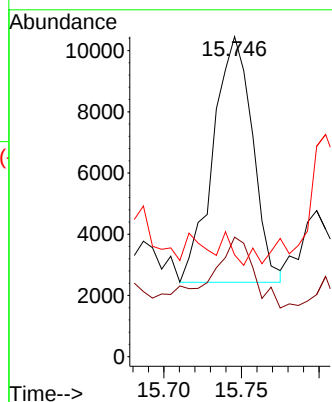
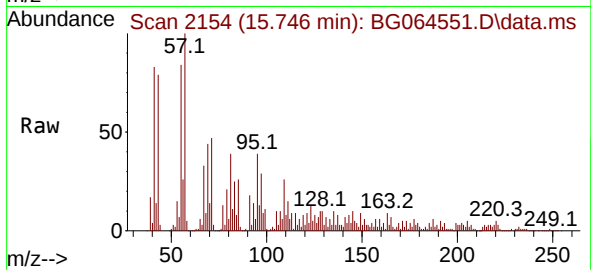




#66
 n-Nitrosodiphenylamine
 Concen: 4.104 ng
 RT: 15.746 min Scan# 2148
 Delta R.T. 0.040 min
 Lab File: BG064551.D
 Acq: 20 Oct 2025 16:02

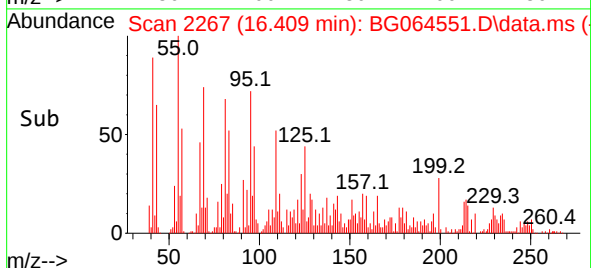
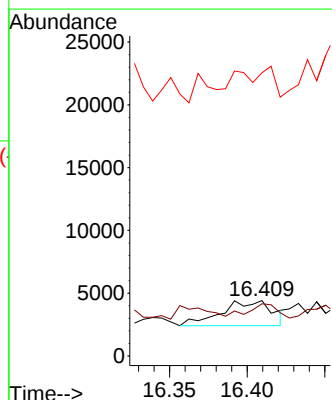
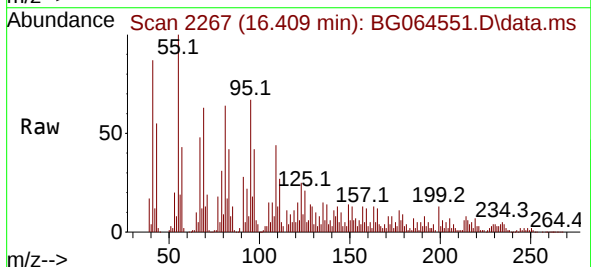
Instrument :
 BNA_G
 ClientSampleId :
 340

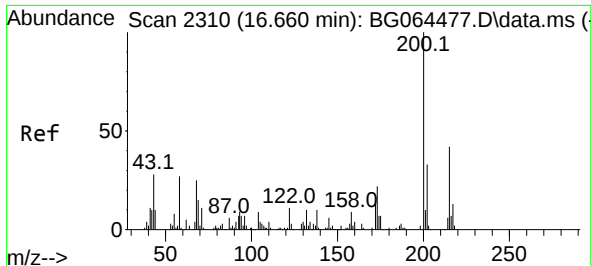
Tgt Ion:169 Resp: 14177
 Ion Ratio Lower Upper
 169 100
 168 37.3 57.8 86.6#
 167 31.8 31.7 47.5



#67
 4-Bromophenyl-phenylether
 Concen: 2.988 ng
 RT: 16.409 min Scan# 2267
 Delta R.T. 0.028 min
 Lab File: BG064551.D
 Acq: 20 Oct 2025 16:02

Tgt Ion:248 Resp: 4548
 Ion Ratio Lower Upper
 248 100
 250 94.2 85.3 127.9
 141 511.4 66.2 99.2#

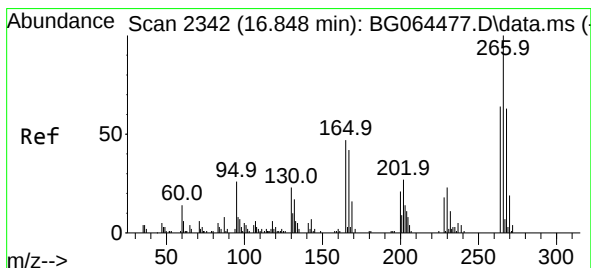
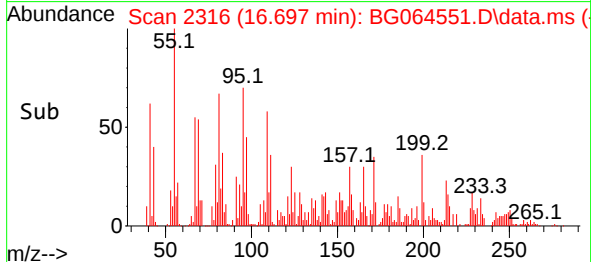
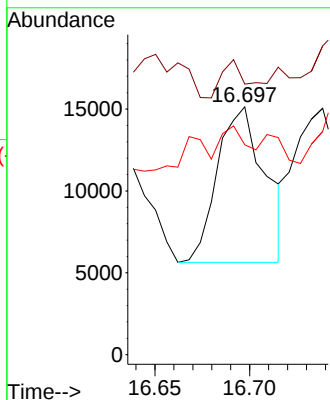
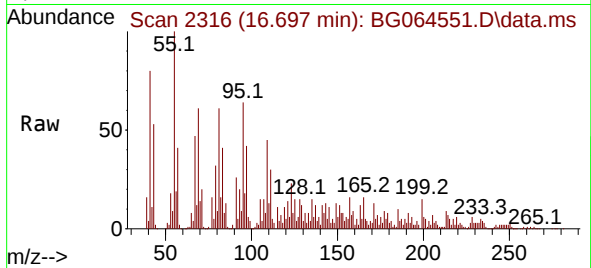




#69
Atrazine
Concen: 10.774 ng
RT: 16.697 min Scan# 21
Delta R.T. 0.046 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02

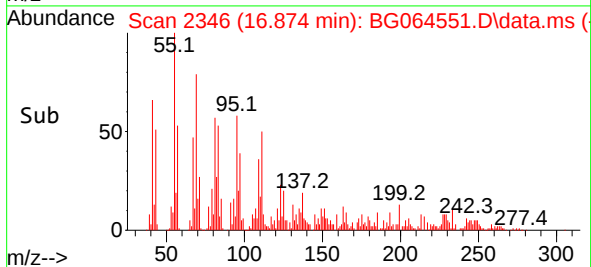
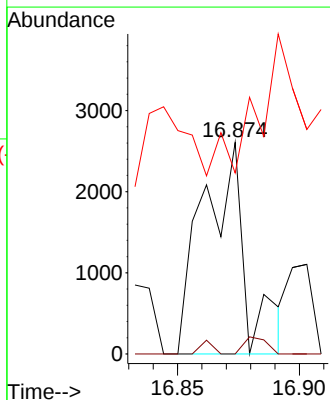
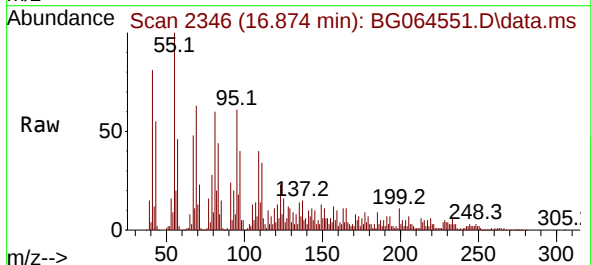
Instrument :
BNA_G
ClientSampleId :
340

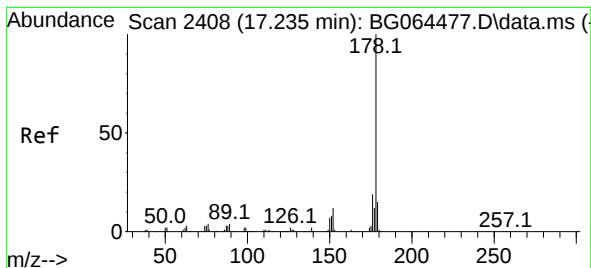
Tgt Ion:200 Resp: 16558
Ion Ratio Lower Upper
200 100
173 109.1 2.5 42.5#
215 84.7 21.5 61.5#



#70
Pentachlorophenol
Concen: 3.145 ng
RT: 16.874 min Scan# 2346
Delta R.T. 0.028 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02

Tgt Ion:266 Resp: 3203
Ion Ratio Lower Upper
266 100
268 0.0 50.6 75.8#
264 85.5 51.2 76.8#





#71

Phenanthrene

Concen: 8.498 ng

RT: 17.267 min Scan# 24

Delta R.T. 0.040 min

Lab File: BG064551.D

Acq: 20 Oct 2025 16:02

Instrument :

BNA_G

ClientSampleId :

340

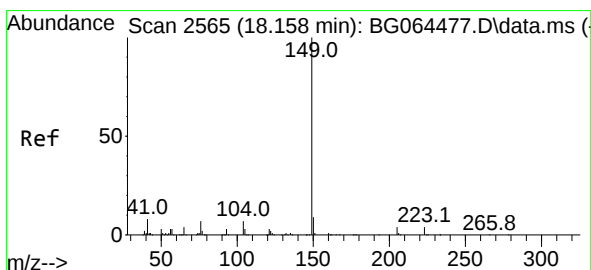
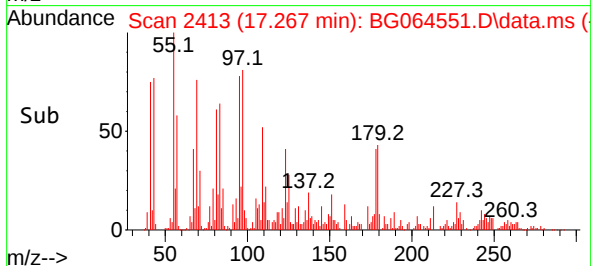
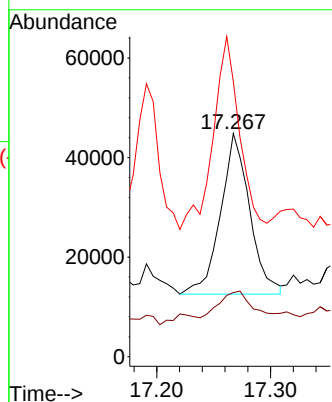
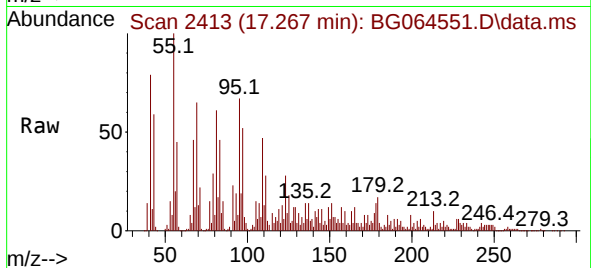
Tgt Ion:178 Resp: 57486

Ion Ratio Lower Upper

178 100

176 28.8 15.2 22.8#

179 123.3 11.8 17.6#



#74

Di-n-butylphthalate

Concen: 2.367 ng

RT: 18.190 min Scan# 2570

Delta R.T. 0.034 min

Lab File: BG064551.D

Acq: 20 Oct 2025 16:02

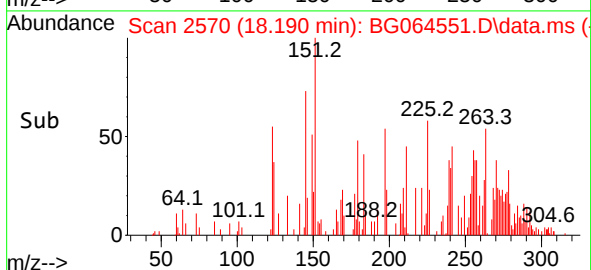
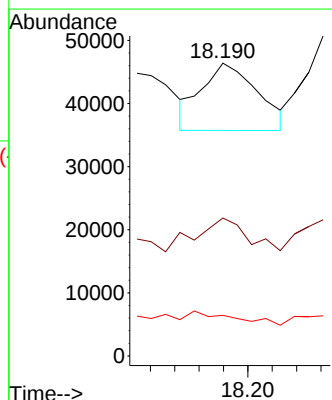
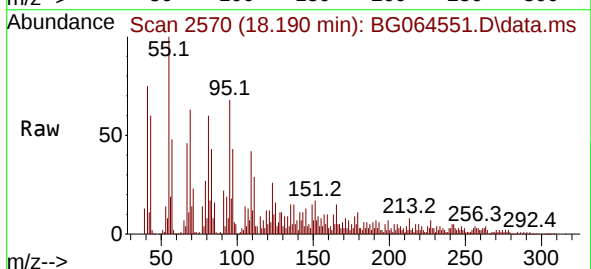
Tgt Ion:149 Resp: 16949

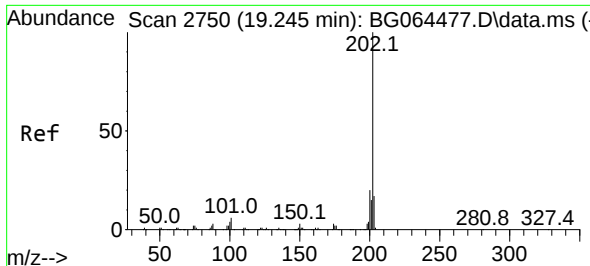
Ion Ratio Lower Upper

149 100

150 47.1 7.4 11.2#

104 13.9 5.3 7.9#

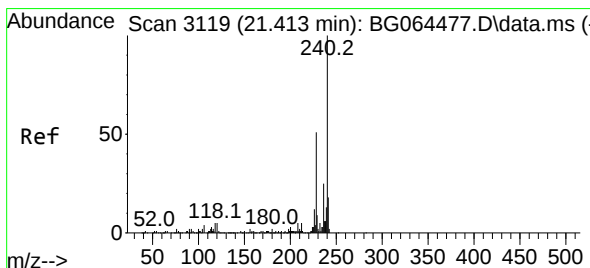
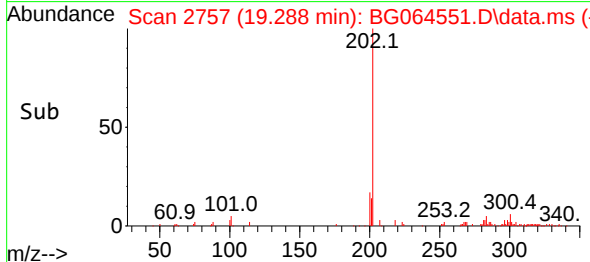
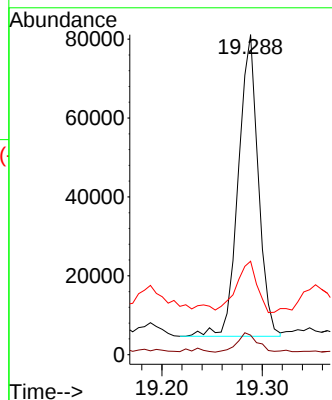
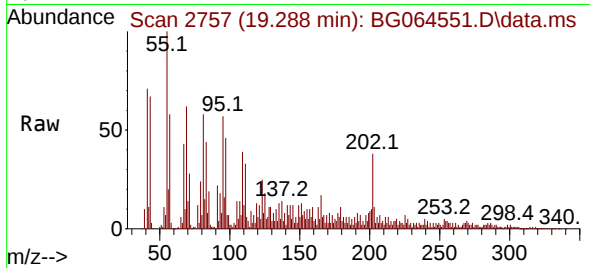




#75
Fluoranthene
Concen: 13.067 ng
RT: 19.288 min Scan# 21
Delta R.T. 0.052 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02

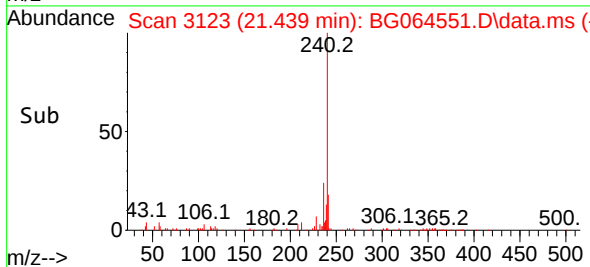
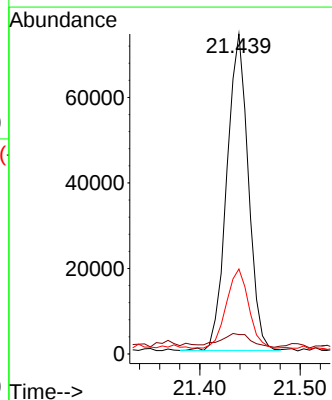
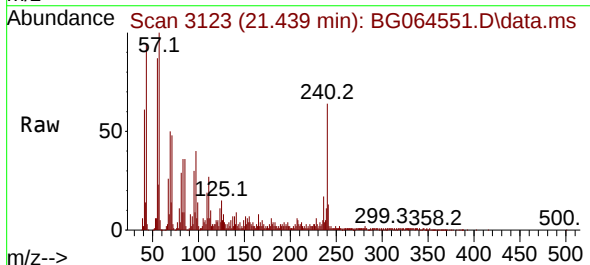
Instrument :
BNA_G
ClientSampleId :
340

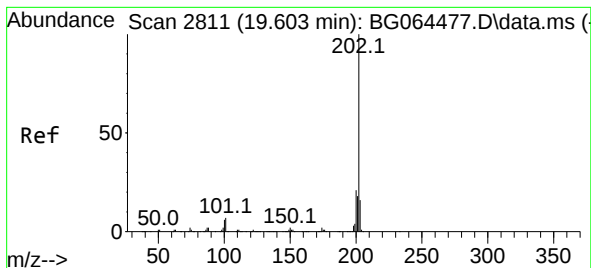
Tgt Ion:202 Resp: 105596
Ion Ratio Lower Upper
202 100
101 6.1 0.0 25.7
203 29.2 0.0 36.6



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.439 min Scan# 3123
Delta R.T. 0.029 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02

Tgt Ion:240 Resp: 109943
Ion Ratio Lower Upper
240 100
120 6.1 4.3 6.5
236 26.6 20.4 30.6





#78

Pyrene

Concen: 14.662 ng

RT: 19.647 min Scan# 21

Delta R.T. 0.046 min

Lab File: BG064551.D

Acq: 20 Oct 2025 16:02

Instrument :

BNA_G

ClientSampleId :

340

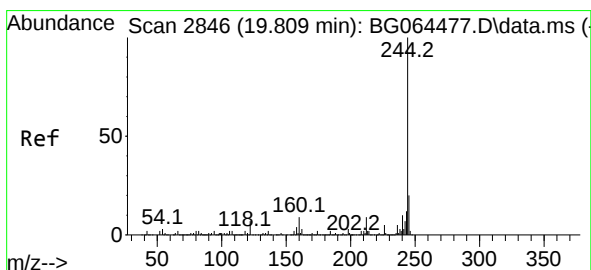
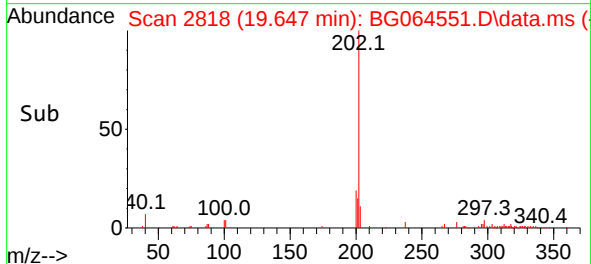
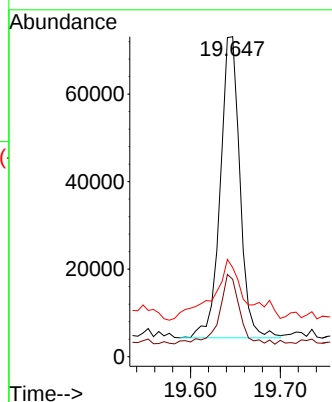
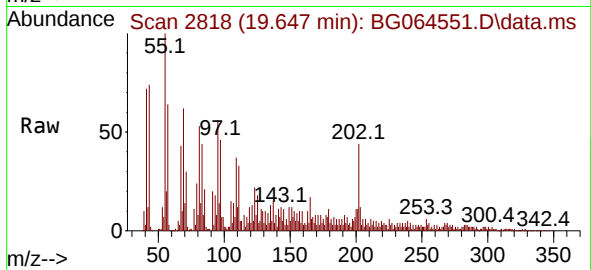
Tgt Ion:202 Resp: 104613

Ion Ratio Lower Upper

202 100

200 24.2 17.0 25.4

203 27.9 13.0 19.4#



#79

Terphenyl-d14

Concen: 23.092 ng

RT: 19.835 min Scan# 2850

Delta R.T. 0.028 min

Lab File: BG064551.D

Acq: 20 Oct 2025 16:02

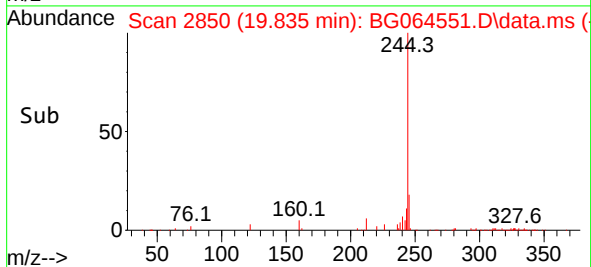
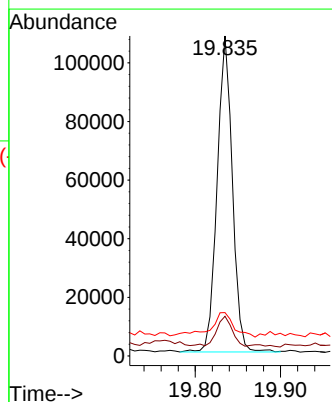
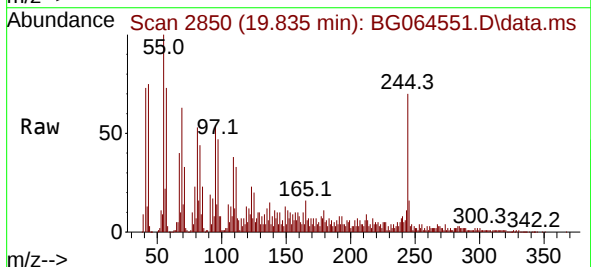
Tgt Ion:244 Resp: 134149

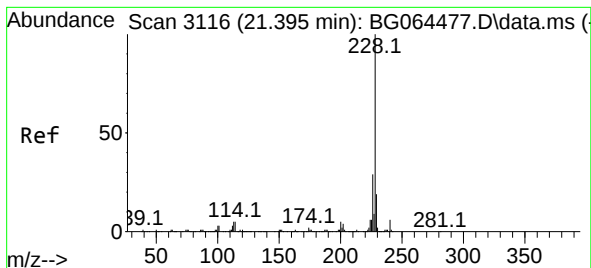
Ion Ratio Lower Upper

244 100

212 12.4 7.0 10.6#

122 13.5 5.6 8.4#





#81

Benzo(a)anthracene

Concen: 6.817 ng

RT: 21.415 min Scan# 3116

Delta R.T. 0.023 min

Lab File: BG064551.D

Acq: 20 Oct 2025 16:02

Instrument :

BNA_G

ClientSampleId :

340

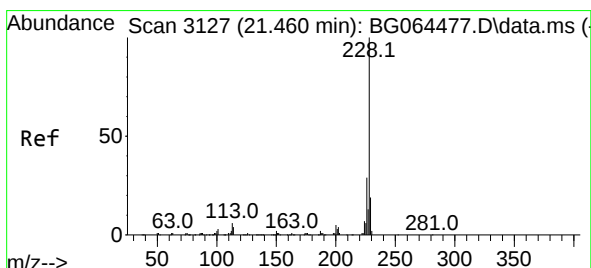
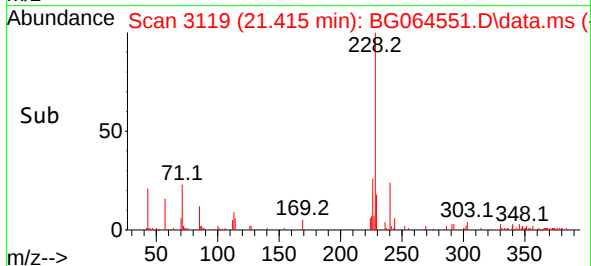
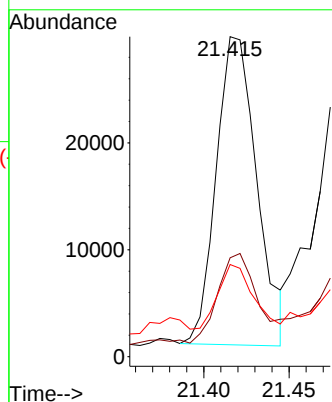
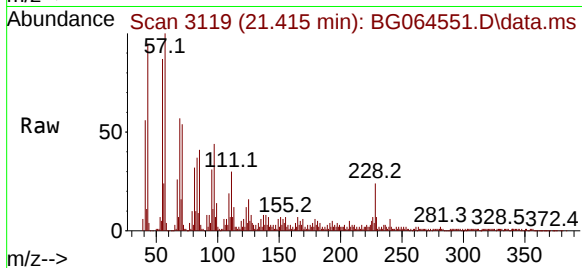
Tgt Ion:228 Resp: 47857

Ion Ratio Lower Upper

228 100

226 30.9 22.8 34.2

229 28.8 15.2 22.8#



#83

Chrysene

Concen: 7.586 ng

RT: 21.480 min Scan# 3130

Delta R.T. 0.028 min

Lab File: BG064551.D

Acq: 20 Oct 2025 16:02

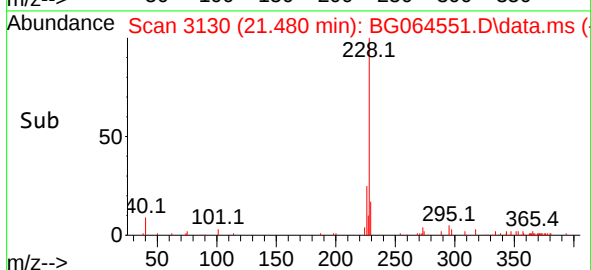
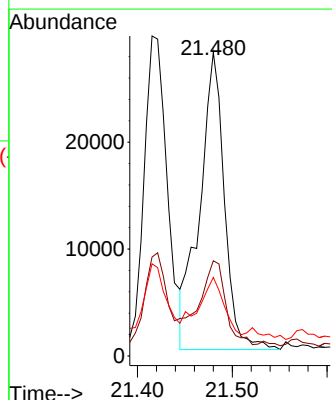
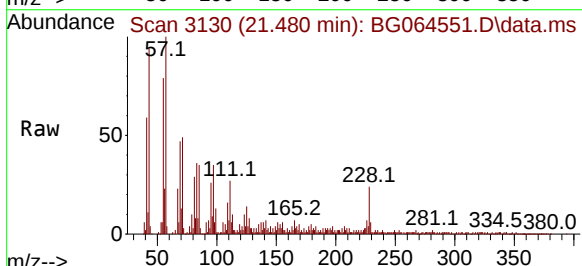
Tgt Ion:228 Resp: 50506

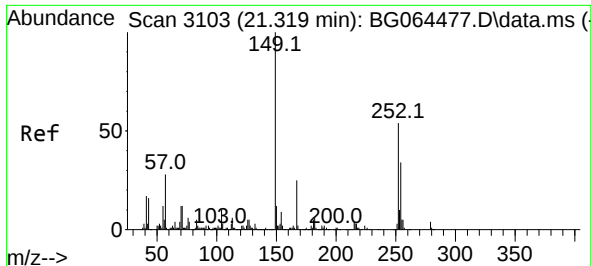
Ion Ratio Lower Upper

228 100

226 31.4 22.8 34.2

229 25.9 15.4 23.0#

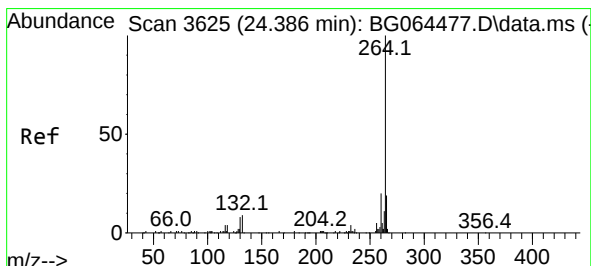
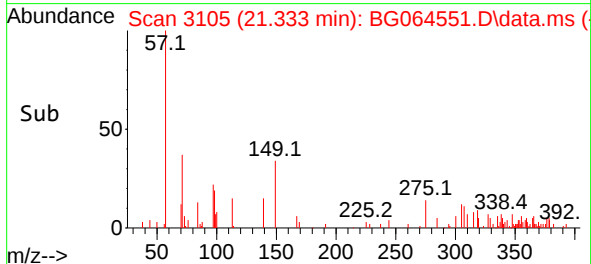
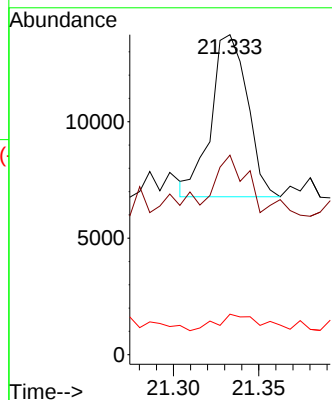
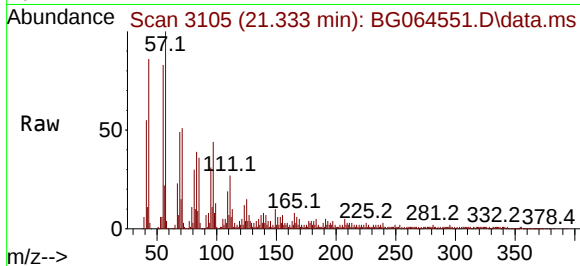




#84
Bis(2-ethylhexyl)phthalate
Concen: 2.889 ng
RT: 21.333 min Scan# 3105
Delta R.T. 0.017 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02

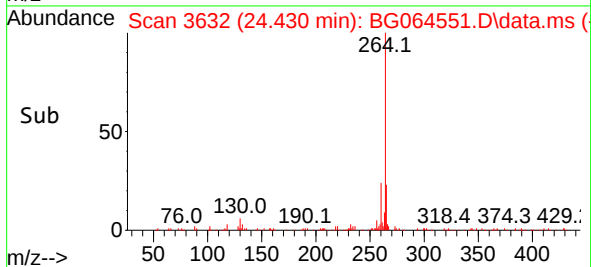
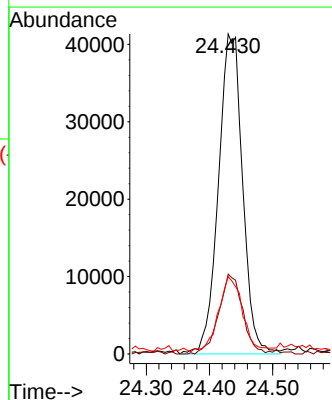
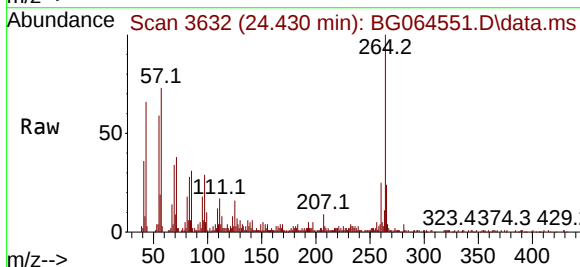
Instrument :
BNA_G
ClientSampleId :
340

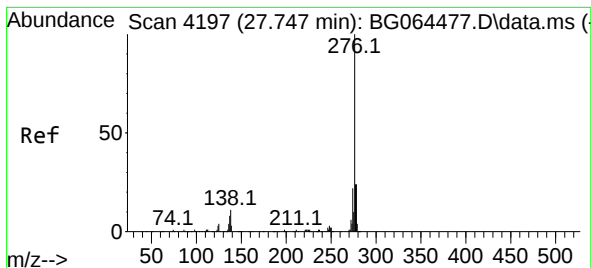
Tgt Ion:149 Resp: 10309
Ion Ratio Lower Upper
149 100
167 62.3 19.7 29.5#
279 12.6 3.4 5.2#



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.430 min Scan# 3632
Delta R.T. 0.040 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02

Tgt Ion:264 Resp: 109966
Ion Ratio Lower Upper
264 100
260 24.9 16.2 24.4#
265 24.2 15.0 22.4#





#87

Indeno(1,2,3-cd)pyrene

Concen: 4.169 ng

RT: 27.779 min Scan# 41

Delta R.T. 0.046 min

Lab File: BG064551.D

Acq: 20 Oct 2025 16:02

Instrument :

BNA_G

ClientSampleId :

340

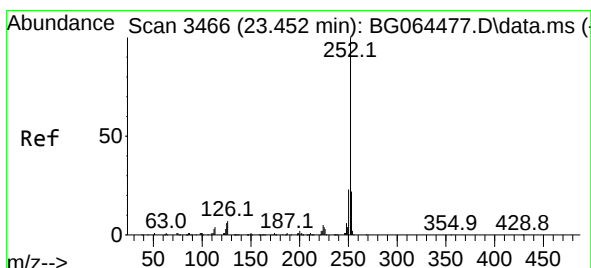
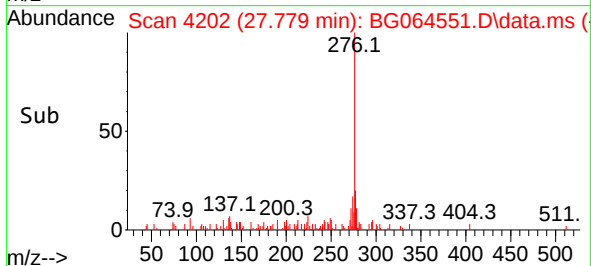
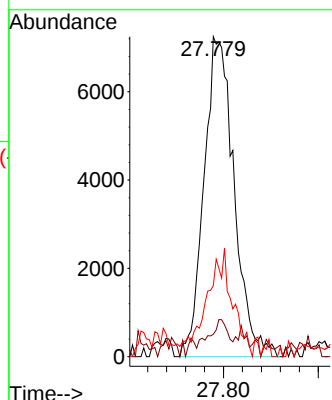
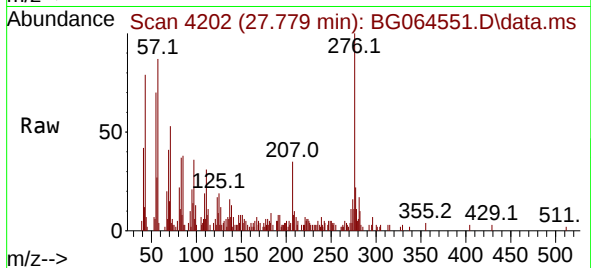
Tgt Ion:276 Resp: 31912

Ion Ratio Lower Upper

276 100

138 0.0 10.8 16.2#

277 0.0 20.3 30.5#



#88

Benzo(b)fluoranthene

Concen: 10.619 ng

RT: 23.489 min Scan# 3472

Delta R.T. 0.040 min

Lab File: BG064551.D

Acq: 20 Oct 2025 16:02

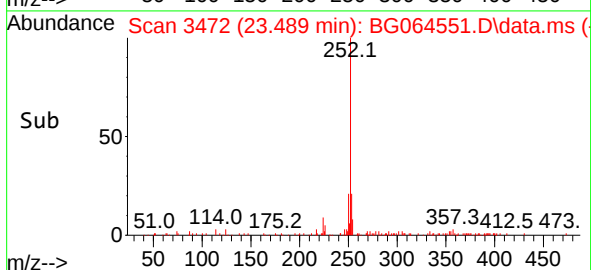
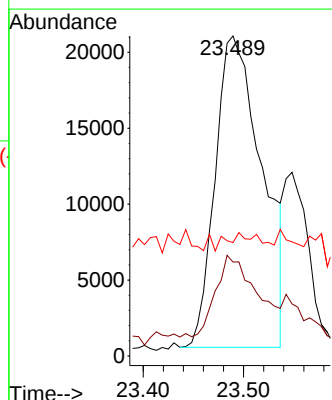
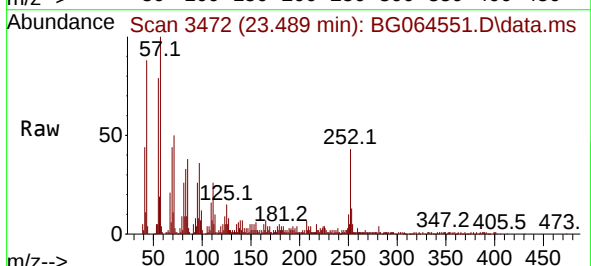
Tgt Ion:252 Resp: 66431

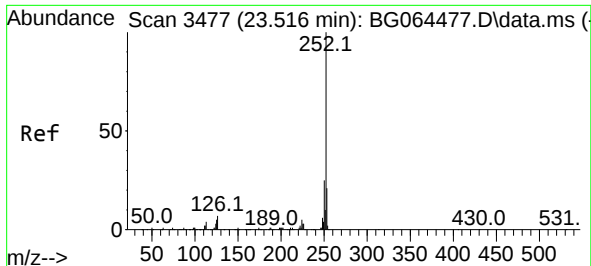
Ion Ratio Lower Upper

252 100

253 29.4 17.5 26.3#

125 35.5 4.5 6.7#

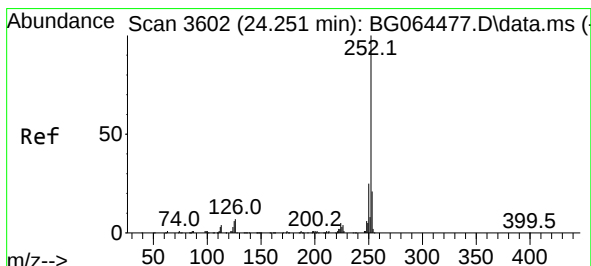
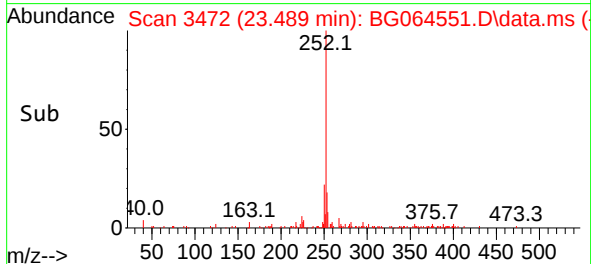
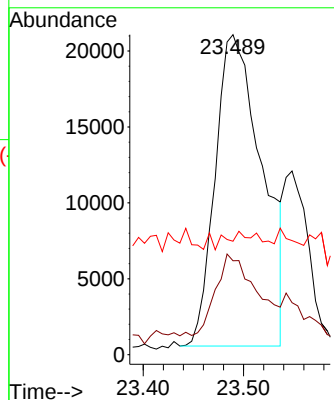
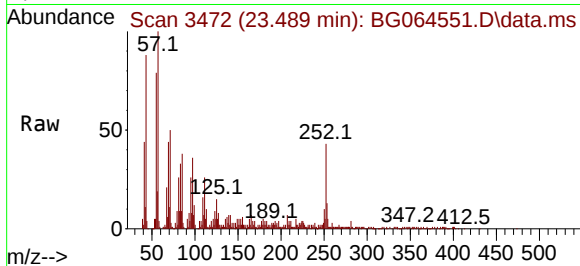




#89
Benzo(k)fluoranthene
Concen: 10.543 ng
RT: 23.489 min Scan# 3477
Delta R.T. -0.019 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02

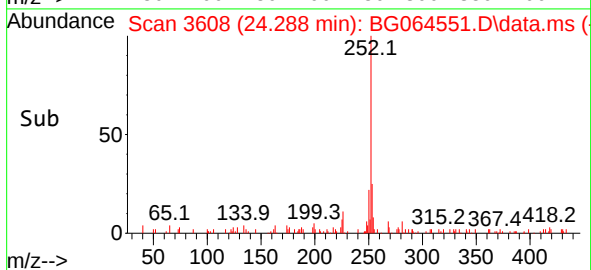
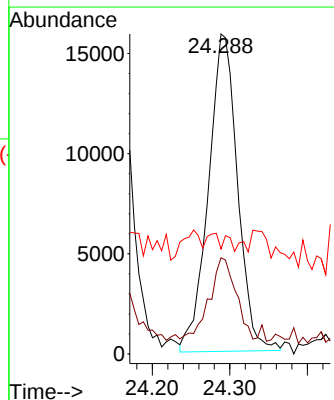
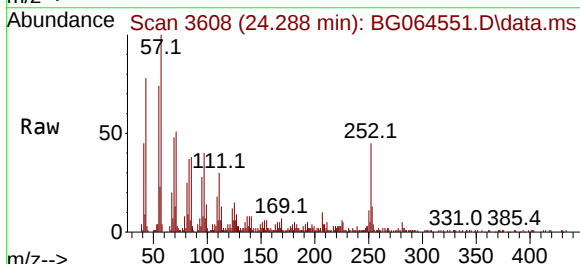
Instrument :
BNA_G
ClientSampleId :
340

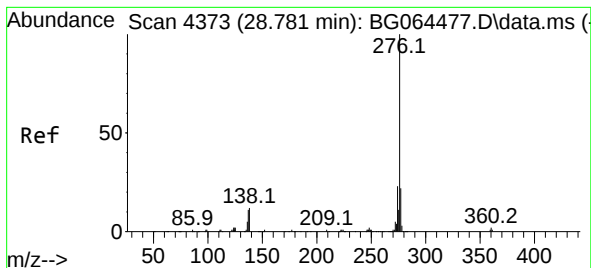
Tgt Ion:252 Resp: 66431
Ion Ratio Lower Upper
252 100
253 29.4 17.4 26.2#
125 35.5 4.0 6.0#



#90
Benzo(a)pyrene
Concen: 7.200 ng
RT: 24.288 min Scan# 3608
Delta R.T. 0.040 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02

Tgt Ion:252 Resp: 41514
Ion Ratio Lower Upper
252 100
253 30.0 17.1 25.7#
125 32.8 4.6 6.8#





#92

Benzo(g,h,i)perylene

Concen: 2.468 ng

RT: 28.824 min Scan# 41

Delta R.T. 0.058 min

Lab File: BG064551.D

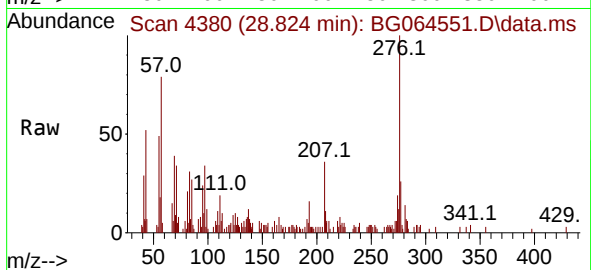
Acq: 20 Oct 2025 16:02

Instrument :

BNA_G

ClientSampleId :

340



Tgt Ion:276 Resp: 14679

Ion	Ratio	Lower	Upper
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276	100		
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277	26.5	17.8	26.6
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138	7.0	9.4	14.0
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