

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG092325\
 Data File : BG064439.D
 Acq On : 23 Sep 2025 14:40
 Operator : RC/JU
 Sample : Q3155-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 COMP-3

Quant Time: Sep 23 15:22:32 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG082825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 28 17:41:58 2025
 Response via : Initial Calibration

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

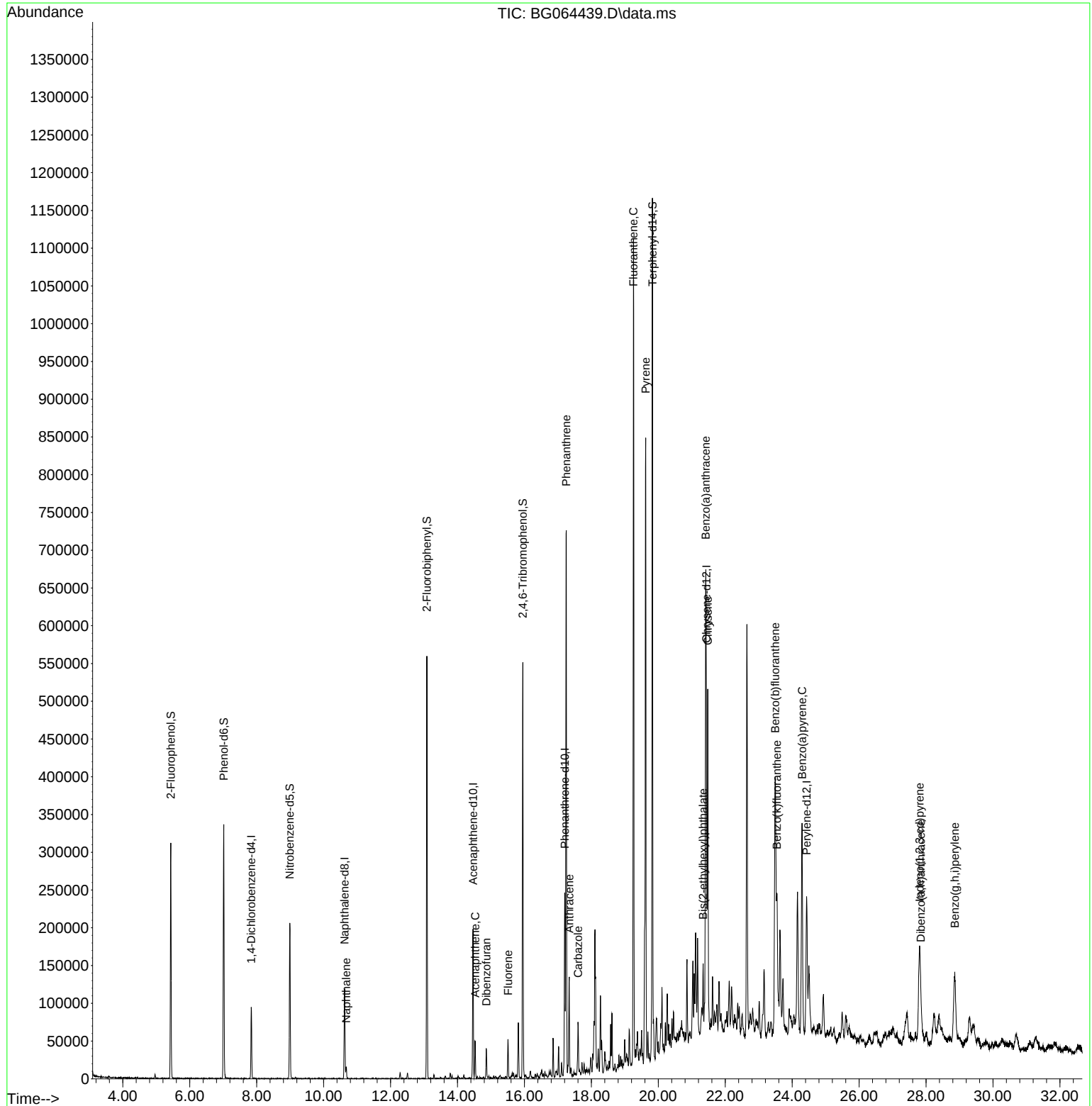
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.837	152	22469	20.000	ng	-0.02
21) Naphthalene-d8	10.628	136	93751	20.000	ng	#-0.02
39) Acenaphthene-d10	14.464	164	66454	20.000	ng	-0.02
64) Phenanthrene-d10	17.202	188	149111	20.000	ng	#-0.02
76) Chrysene-d12	21.433	240	164886	20.000	ng	#-0.02
86) Perylene-d12	24.435	264	182770	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.434	112	111264	88.842	ng	-0.01
7) Phenol-d6	7.014	99	151372	87.978	ng	-0.02
23) Nitrobenzene-d5	8.988	82	105583	62.809	ng	-0.03
42) 2,4,6-Tribromophenol	15.951	330	99758	113.334	ng	-0.02
45) 2-Fluorobiphenyl	13.084	172	266880	61.298	ng	-0.03
79) Terphenyl-d14	19.823	244	503300	63.684	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	10.675	128	12133	2.496	ng	# 94
52) Acenaphthene	14.529	154	18169	4.786	ng	94
55) Dibenzofuran	14.864	168	22366	3.746	ng	# 94
58) Fluorene	15.510	166	21955	4.486	ng	# 90
71) Phenanthrene	17.249	178	449425	57.145	ng	99
72) Anthracene	17.337	178	82731	10.341	ng	97
73) Carbazole	17.602	167	42406	6.017	ng	97
75) Fluoranthene	19.259	202	682109	73.763	ng	97
78) Pyrene	19.623	202	546964	52.653	ng	99
81) Benzo(a)anthracene	21.415	228	337337	31.979	ng	100
83) Chrysene	21.480	228	296447	29.273	ng	97
84) Bis(2-ethylhexyl)phtha...	21.339	149	31666	5.383	ng	# 98
87) Indeno(1,2,3-cd)pyrene	27.807	276	209463	16.782	ng	98
88) Benzo(b)fluoranthene	23.495	252	418863	40.606	ng	98
89) Benzo(k)fluoranthene	23.542	252	148953m	14.174	ng	
90) Benzo(a)pyrene	24.294	252	292453m	30.478	ng	
91) Dibenzo(a,h)anthracene	27.843	278	50917	5.081	ng	97
92) Benzo(g,h,i)perylene	28.859	276	195241	20.021	ng	# 93

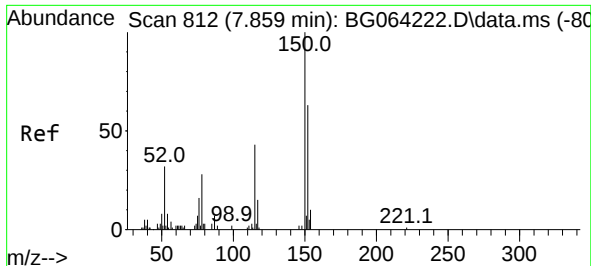
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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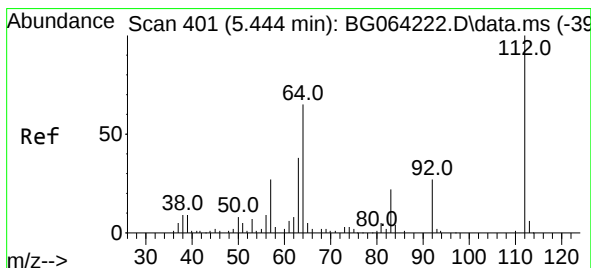
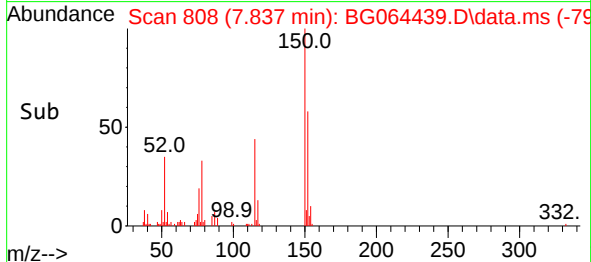
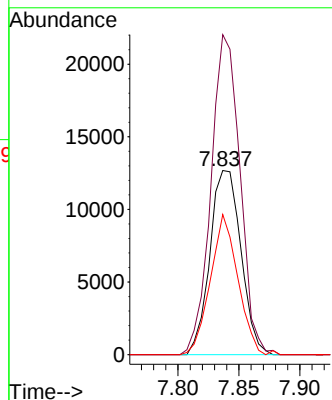
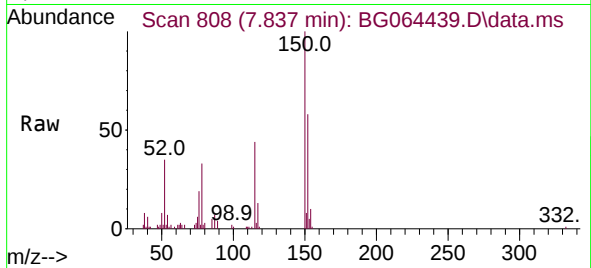




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.837 min Scan# 80
Delta R.T. -0.022 min
Lab File: BG064439.D
Acq: 23 Sep 2025 14:40

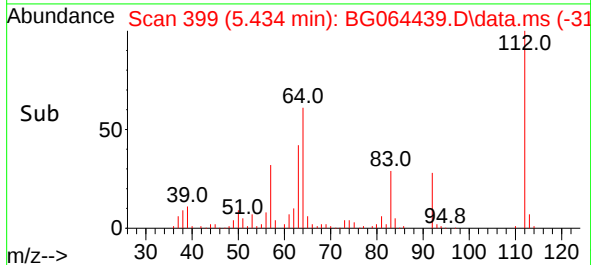
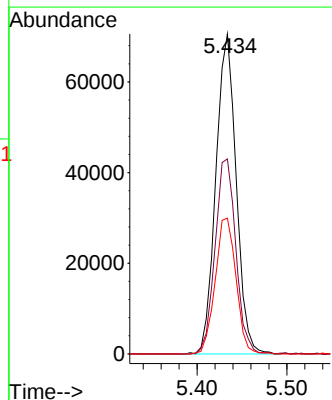
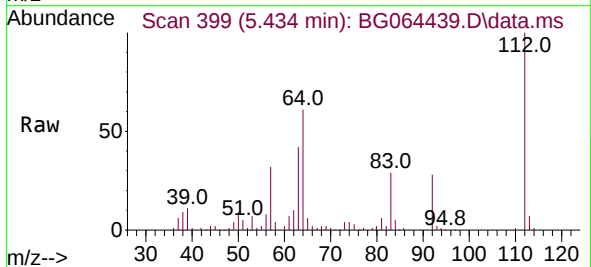
Instrument :
BNA_G
ClientSampleId :
COMP-3

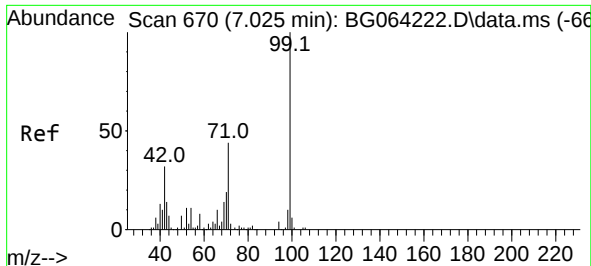
Tgt Ion:152 Resp: 22469
Ion Ratio Lower Upper
152 100
150 173.8 128.0 192.0
115 76.1 55.7 83.5



#5
2-Fluorophenol
Concen: 88.842 ng
RT: 5.434 min Scan# 399
Delta R.T. -0.011 min
Lab File: BG064439.D
Acq: 23 Sep 2025 14:40

Tgt Ion:112 Resp: 111264
Ion Ratio Lower Upper
112 100
64 60.9 51.8 77.6
63 42.4 30.6 45.8

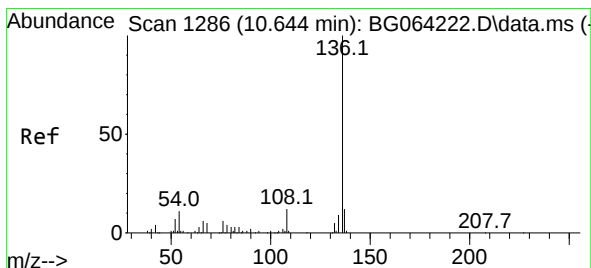
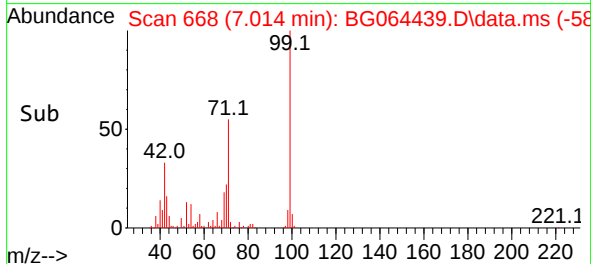
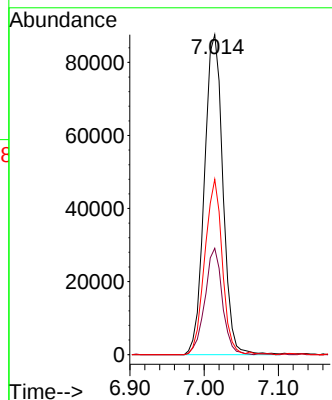
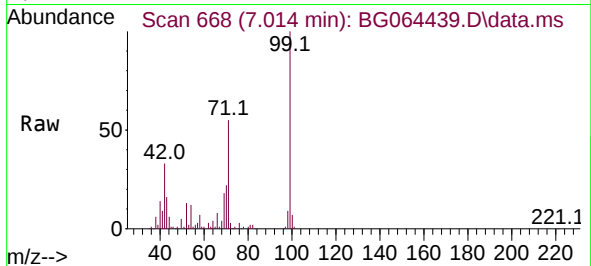




#7
Phenol-d6
Concen: 87.978 ng
RT: 7.014 min Scan# 60
Delta R.T. -0.016 min
Lab File: BG064439.D
Acq: 23 Sep 2025 14:40

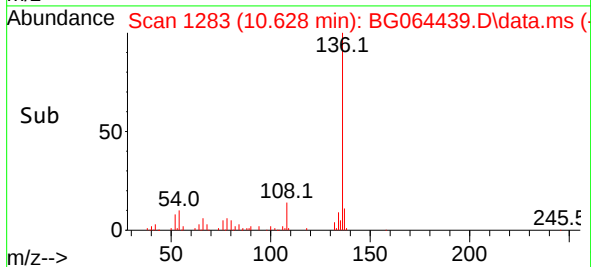
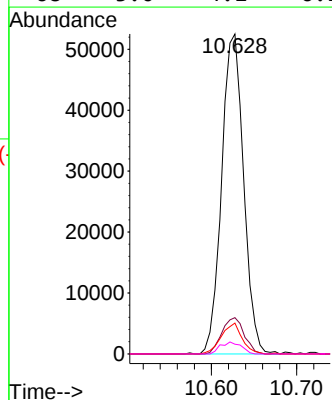
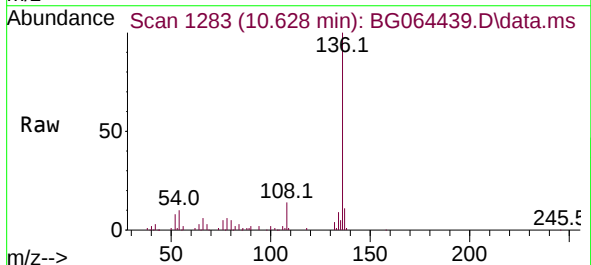
Instrument :
BNA_G
ClientSampleId :
COMP-3

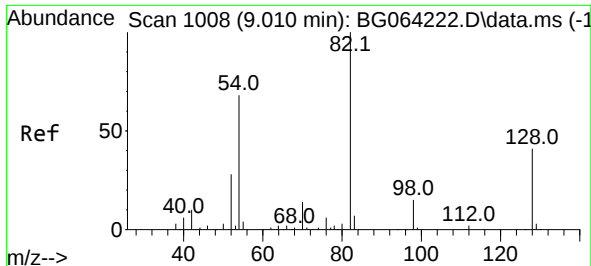
Tgt Ion: 99 Resp: 151372
Ion Ratio Lower Upper
99 100
42 33.2 25.8 38.8
71 54.8 35.2 52.8#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.628 min Scan# 1283
Delta R.T. -0.022 min
Lab File: BG064439.D
Acq: 23 Sep 2025 14:40

Tgt Ion: 136 Resp: 93751
Ion Ratio Lower Upper
136 100
137 11.3 9.6 14.4
54 9.7 8.8 13.2
68 3.0 4.1 6.1#

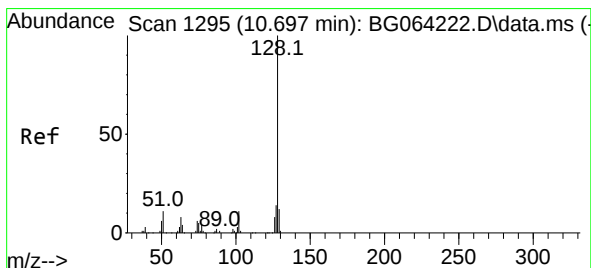
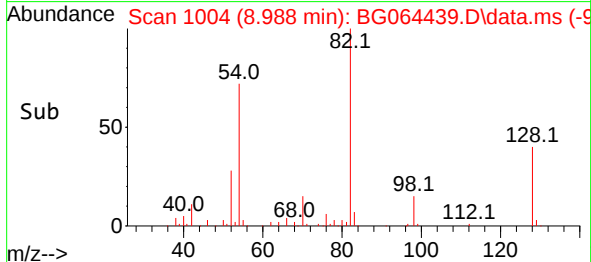
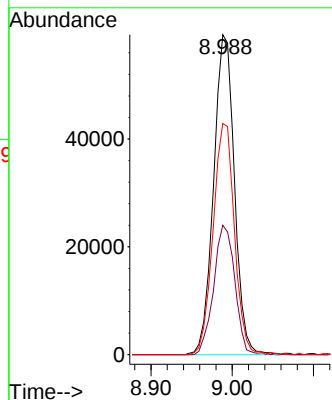
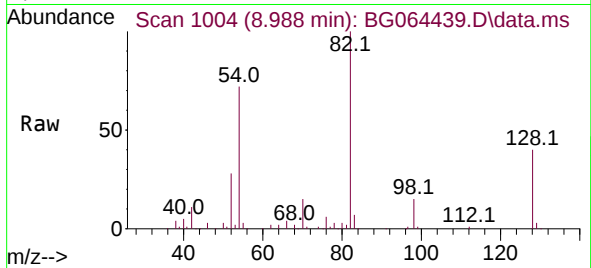




#23
Nitrobenzene-d5
Concen: 62.809 ng
RT: 8.988 min Scan# 1004
Delta R.T. -0.028 min
Lab File: BG064439.D
Acq: 23 Sep 2025 14:40

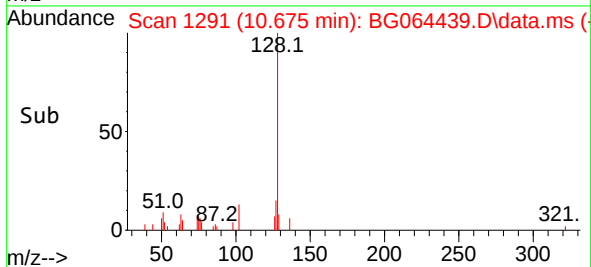
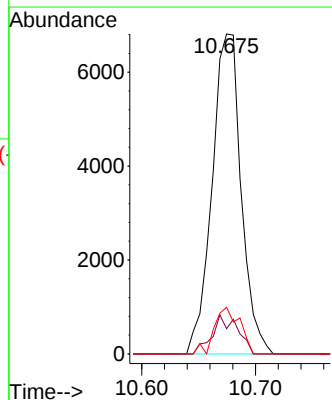
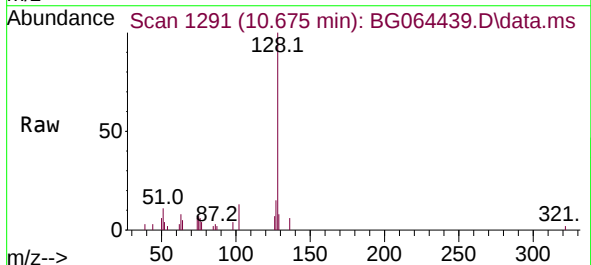
Instrument :
BNA_G
ClientSampleId :
COMP-3

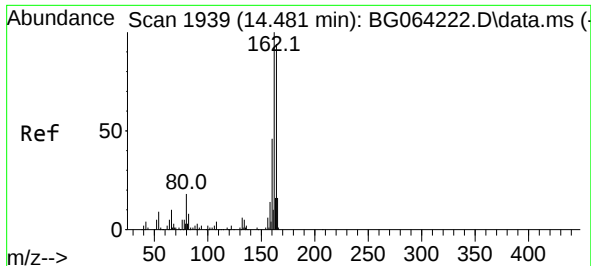
Tgt Ion: 82 Resp: 105583
Ion Ratio Lower Upper
82 100
128 40.4 32.6 48.8
54 72.2 54.7 82.1



#31
Naphthalene
Concen: 2.496 ng
RT: 10.675 min Scan# 1291
Delta R.T. -0.022 min
Lab File: BG064439.D
Acq: 23 Sep 2025 14:40

Tgt Ion: 128 Resp: 12133
Ion Ratio Lower Upper
128 100
129 7.9 9.4 14.2#
127 14.6 10.9 16.3

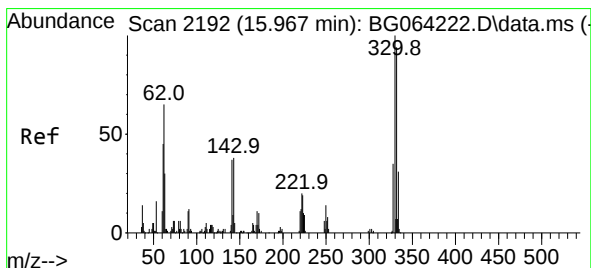
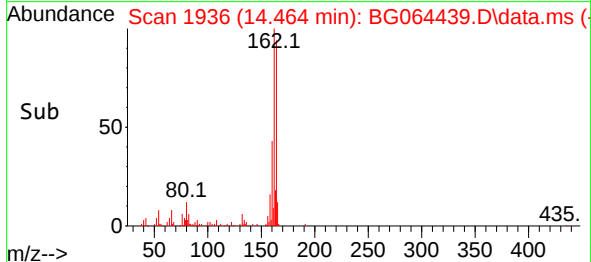
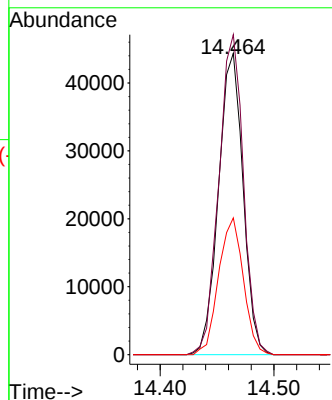
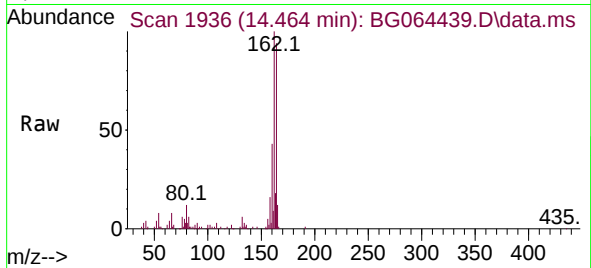




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.464 min Scan# 1936
Delta R.T. -0.017 min
Lab File: BG064439.D
Acq: 23 Sep 2025 14:40

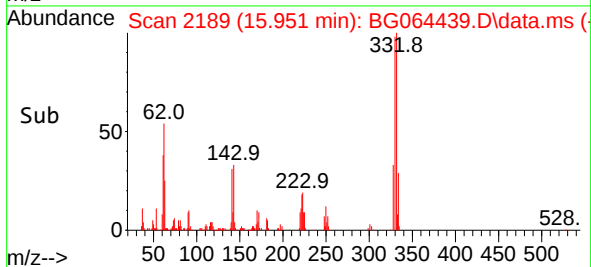
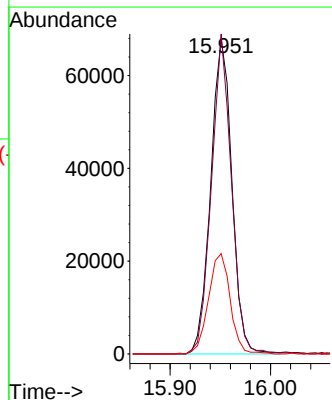
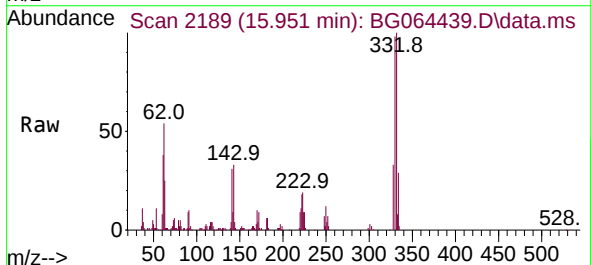
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ClientSampleId :
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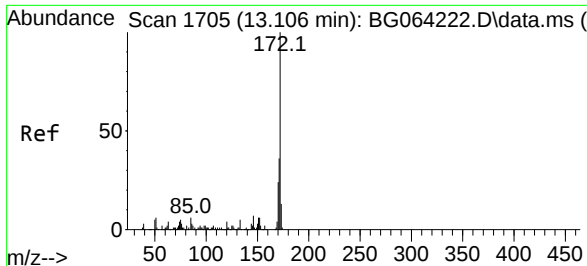
Tgt Ion:164 Resp: 66454
Ion Ratio Lower Upper
164 100
162 106.2 85.4 128.0
160 45.4 39.2 58.8



#42
2,4,6-Tribromophenol
Concen: 113.334 ng
RT: 15.951 min Scan# 2189
Delta R.T. -0.022 min
Lab File: BG064439.D
Acq: 23 Sep 2025 14:40

Tgt Ion:330 Resp: 99758
Ion Ratio Lower Upper
330 100
332 95.5 77.6 116.4
141 32.6 29.8 44.6

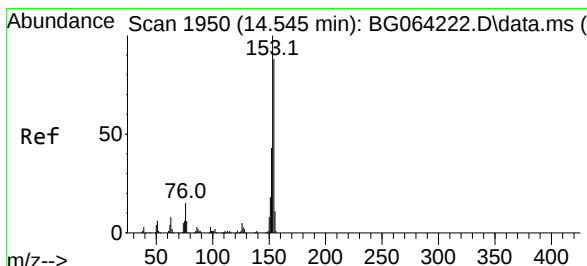
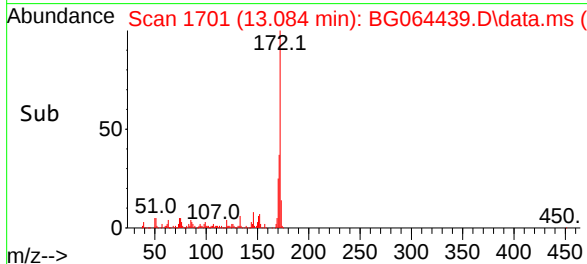
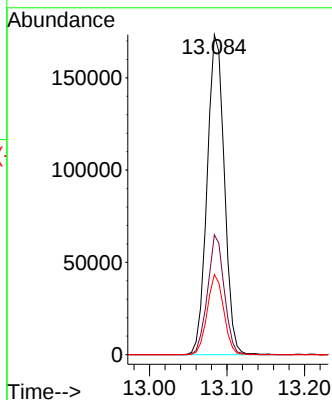
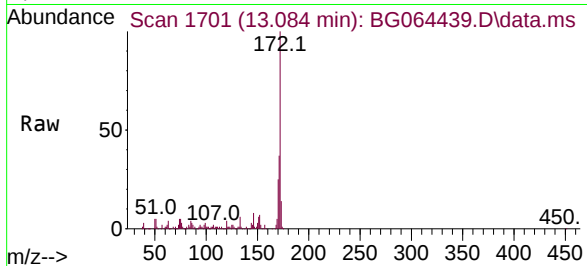




#45
2-Fluorobiphenyl
Concen: 61.298 ng
RT: 13.084 min Scan# 1705
Delta R.T. -0.028 min
Lab File: BG064439.D
Acq: 23 Sep 2025 14:40

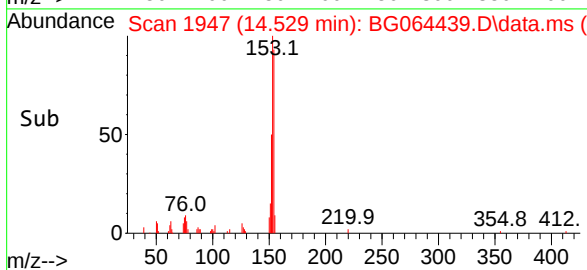
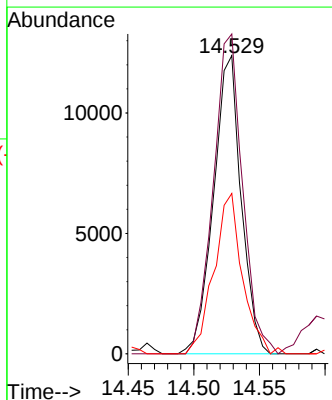
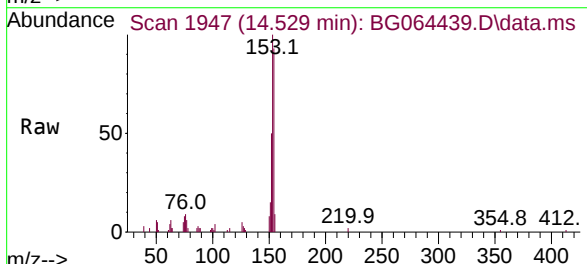
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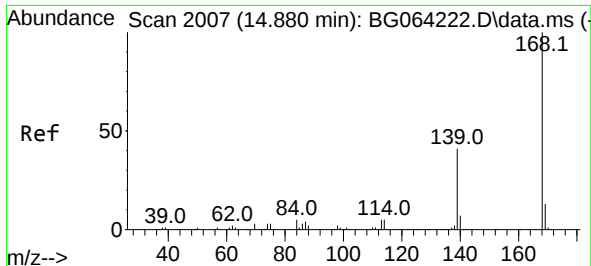
Tgt Ion:172 Resp: 266880
Ion Ratio Lower Upper
172 100
171 37.4 28.7 43.1
170 25.0 19.0 28.6



#52
Acenaphthene
Concen: 4.786 ng
RT: 14.529 min Scan# 1947
Delta R.T. -0.022 min
Lab File: BG064439.D
Acq: 23 Sep 2025 14:40

Tgt Ion:154 Resp: 18169
Ion Ratio Lower Upper
154 100
153 107.3 91.1 136.7
152 53.8 39.6 59.4

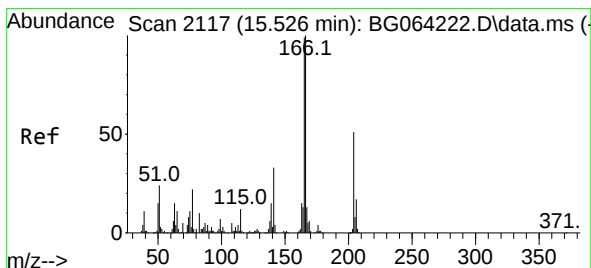
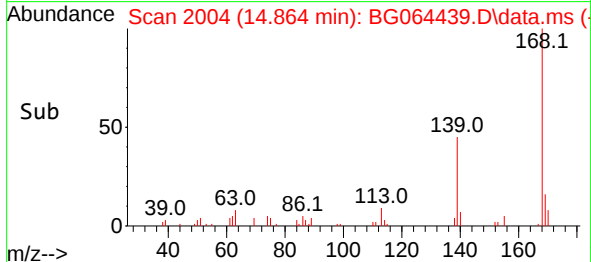
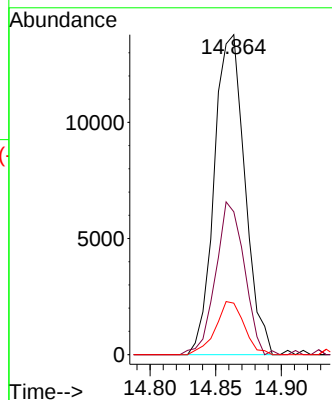
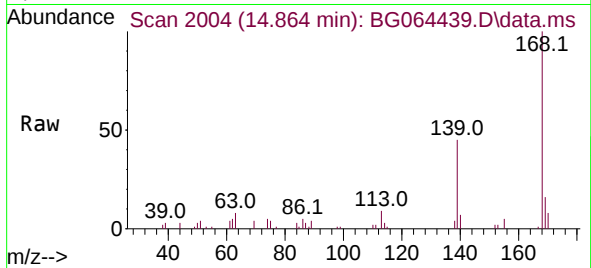




#55
Dibenzenofuran
Concen: 3.746 ng
RT: 14.864 min Scan# 2004
Delta R.T. -0.017 min
Lab File: BG064439.D
Acq: 23 Sep 2025 14:40

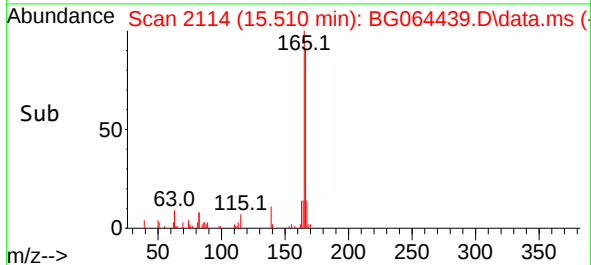
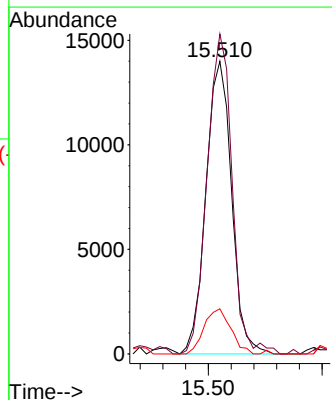
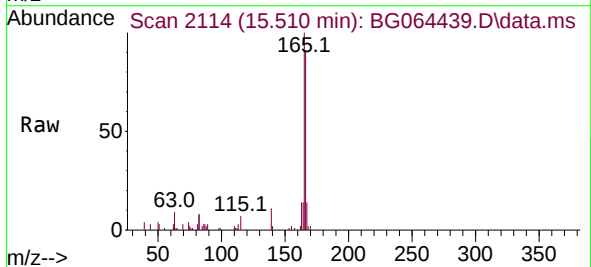
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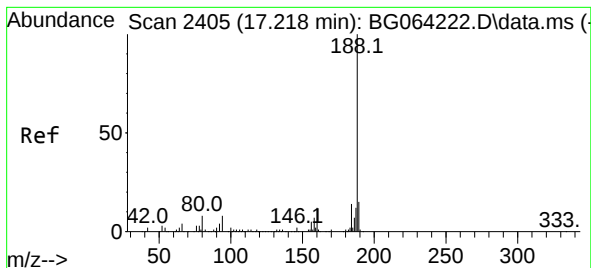
Tgt Ion:168 Resp: 22366
Ion Ratio Lower Upper
168 100
139 44.6 33.2 49.8
169 16.1 10.4 15.6#



#58
Fluorene
Concen: 4.486 ng
RT: 15.510 min Scan# 2114
Delta R.T. -0.022 min
Lab File: BG064439.D
Acq: 23 Sep 2025 14:40

Tgt Ion:166 Resp: 21955
Ion Ratio Lower Upper
166 100
165 109.4 79.1 118.7
167 15.4 10.2 15.4#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.202 min Scan# 2402

Delta R.T. -0.022 min

Lab File: BG064439.D

Acq: 23 Sep 2025 14:40

Instrument :

BNA_G

ClientSampleId :

COMP-3

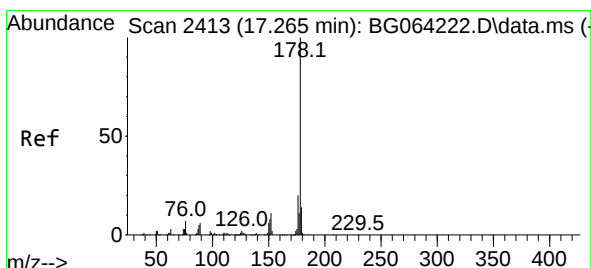
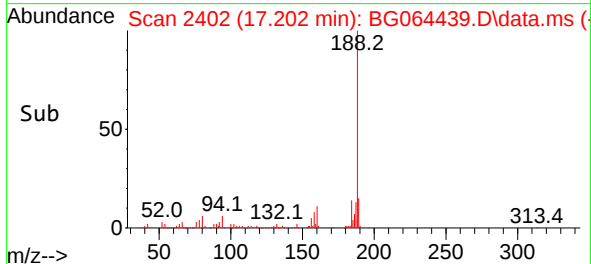
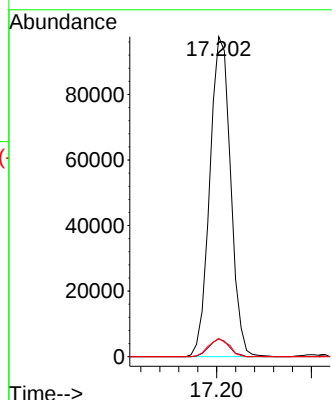
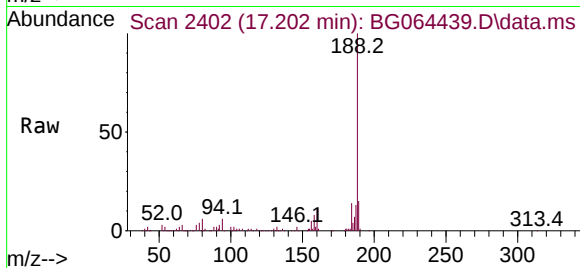
Tgt Ion:188 Resp: 149111

Ion Ratio Lower Upper

188 100

94 5.5 6.2 9.4#

80 5.7 6.8 10.2#



#71

Phenanthrene

Concen: 57.145 ng

RT: 17.249 min Scan# 2410

Delta R.T. -0.017 min

Lab File: BG064439.D

Acq: 23 Sep 2025 14:40

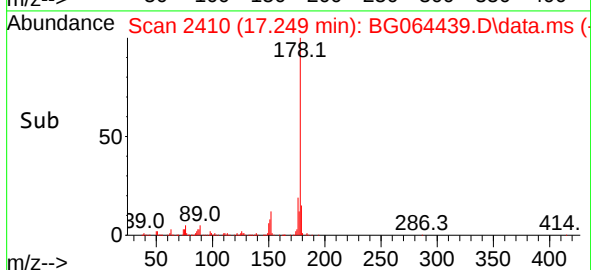
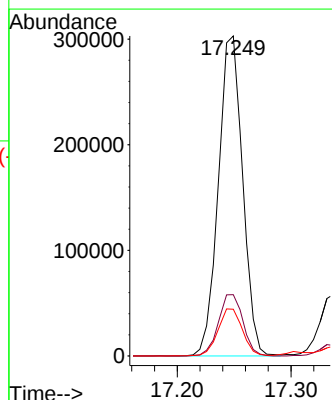
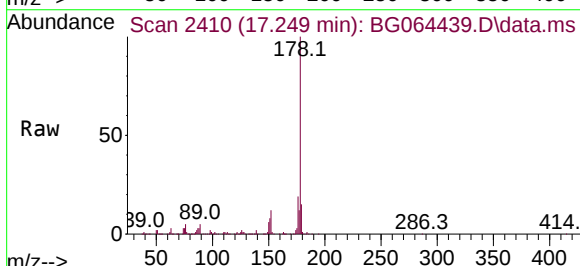
Tgt Ion:178 Resp: 449425

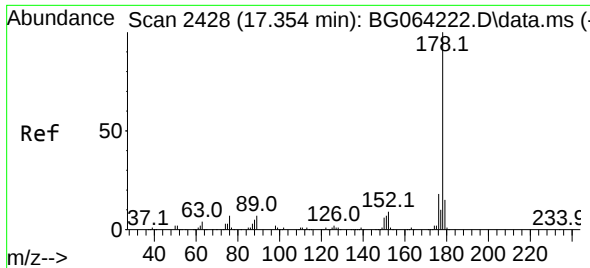
Ion Ratio Lower Upper

178 100

176 19.1 15.9 23.9

179 14.6 11.4 17.2

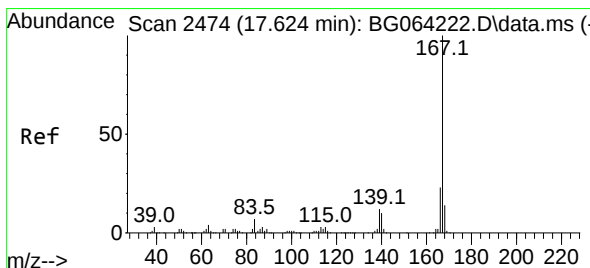
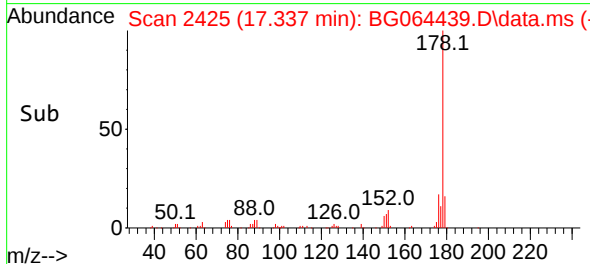
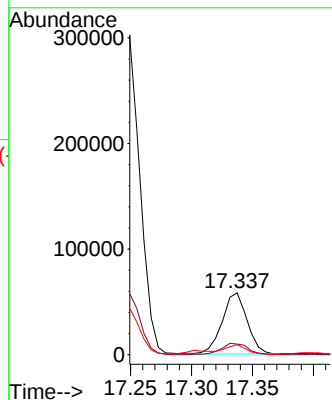
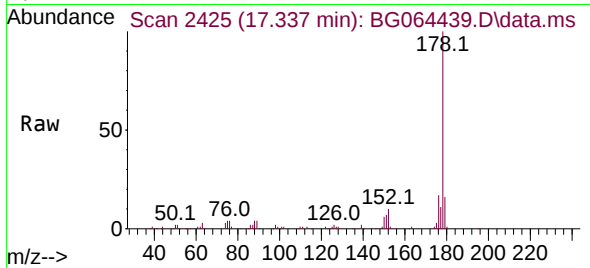




#72
 Anthracene
 Concen: 10.341 ng
 RT: 17.337 min Scan# 2425
 Delta R.T. -0.022 min
 Lab File: BG064439.D
 Acq: 23 Sep 2025 14:40

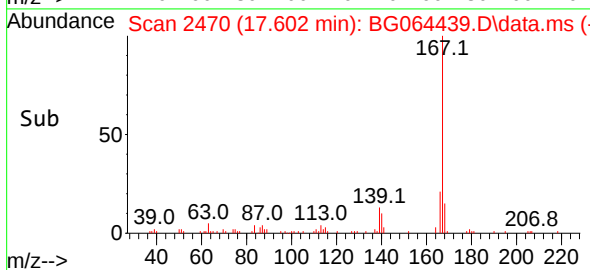
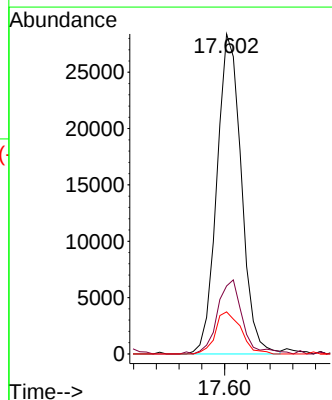
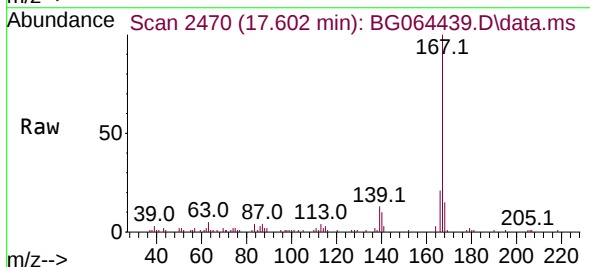
Instrument :
 BNA_G
 ClientSampleId :
 COMP-3

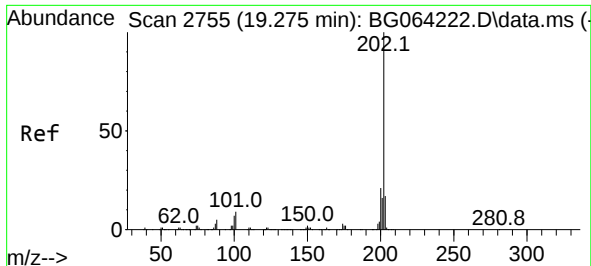
Tgt Ion:178 Resp: 82731
 Ion Ratio Lower Upper
 178 100
 176 17.1 14.7 22.1
 179 16.1 12.1 18.1



#73
 Carbazole
 Concen: 6.017 ng
 RT: 17.602 min Scan# 2470
 Delta R.T. -0.022 min
 Lab File: BG064439.D
 Acq: 23 Sep 2025 14:40

Tgt Ion:167 Resp: 42406
 Ion Ratio Lower Upper
 167 100
 166 21.2 18.2 27.2
 139 13.1 9.8 14.6

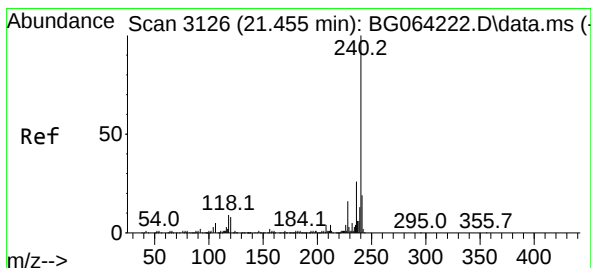
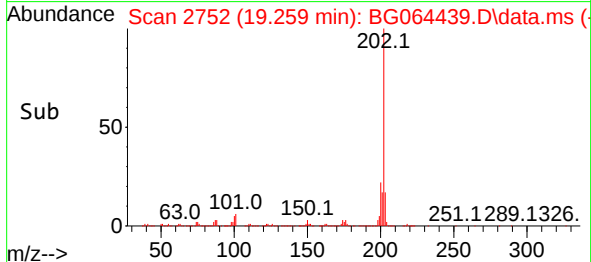
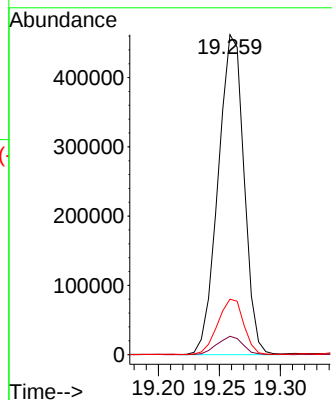
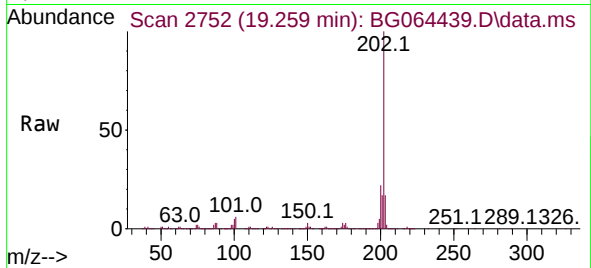




#75
Fluoranthene
Concen: 73.763 ng
RT: 19.259 min Scan# 21
Delta R.T. -0.017 min
Lab File: BG064439.D
Acq: 23 Sep 2025 14:40

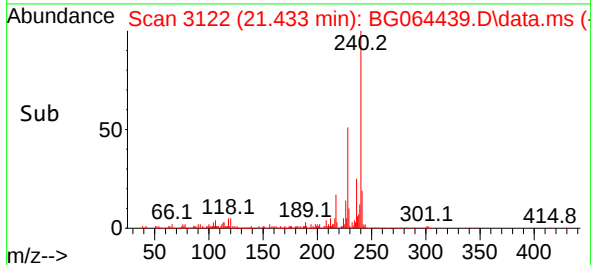
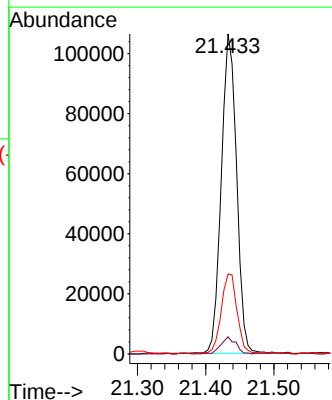
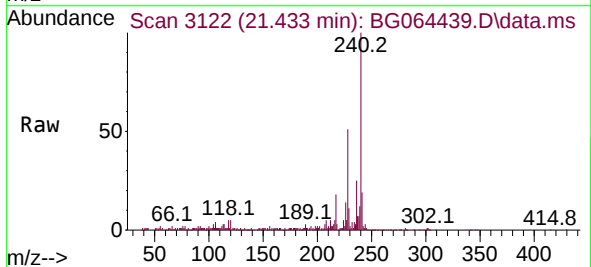
Instrument :
BNA_G
ClientSampleId :
COMP-3

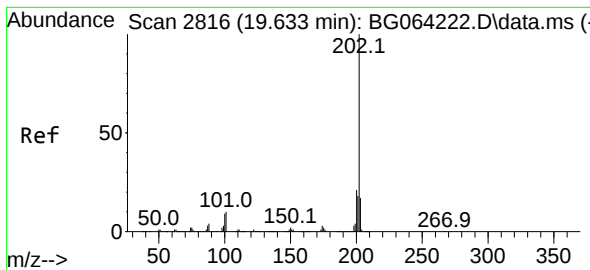
Tgt Ion:202 Resp: 682109
Ion Ratio Lower Upper
202 100
101 5.7 0.0 28.7
203 17.3 0.0 36.9



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.433 min Scan# 3122
Delta R.T. -0.022 min
Lab File: BG064439.D
Acq: 23 Sep 2025 14:40

Tgt Ion:240 Resp: 164886
Ion Ratio Lower Upper
240 100
120 5.3 6.2 9.4#
236 25.0 20.5 30.7





#78

Pyrene

Concen: 52.653 ng

RT: 19.623 min Scan# 2816

Delta R.T. -0.017 min

Lab File: BG064439.D

Acq: 23 Sep 2025 14:40

Instrument :

BNA_G

ClientSampleId :

COMP-3

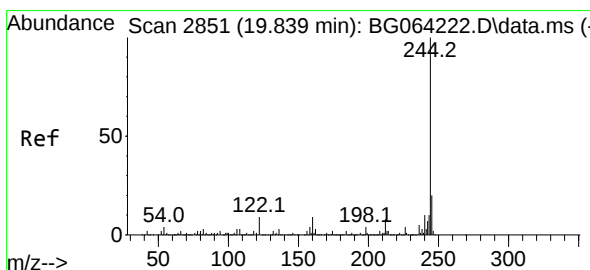
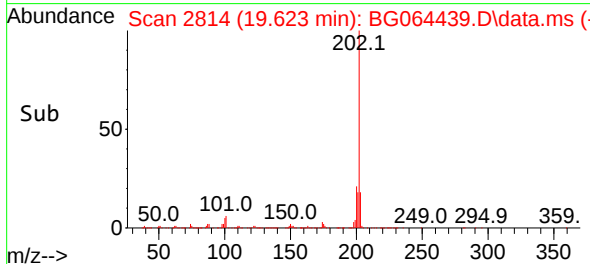
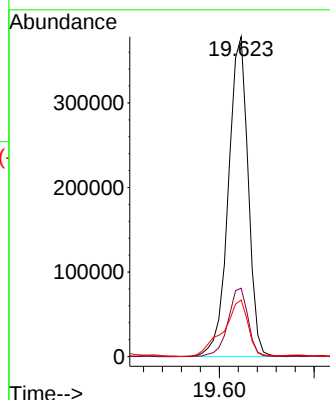
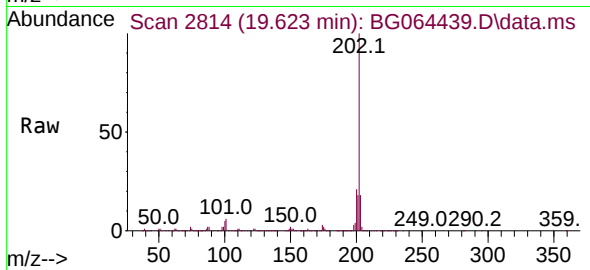
Tgt Ion:202 Resp: 546964

Ion Ratio Lower Upper

202 100

200 21.4 16.9 25.3

203 17.7 13.8 20.8



#79

Terphenyl-d14

Concen: 63.684 ng

RT: 19.823 min Scan# 2848

Delta R.T. -0.022 min

Lab File: BG064439.D

Acq: 23 Sep 2025 14:40

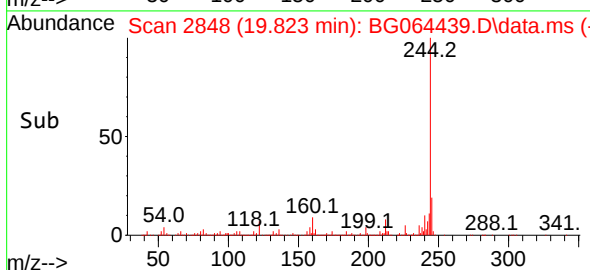
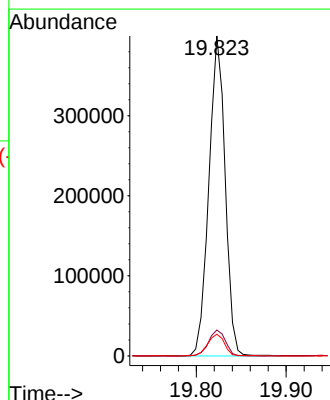
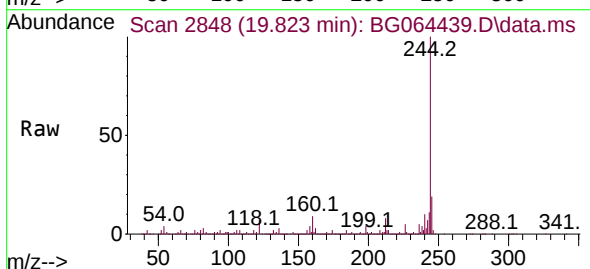
Tgt Ion:244 Resp: 503300

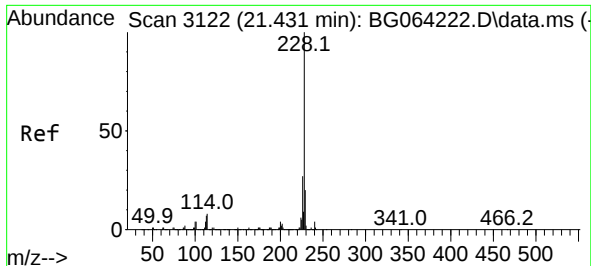
Ion Ratio Lower Upper

244 100

212 8.1 6.6 10.0

122 6.8 7.0 10.6#

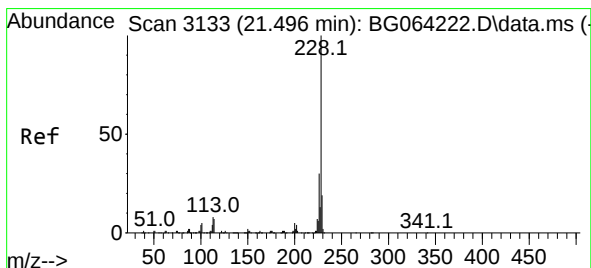
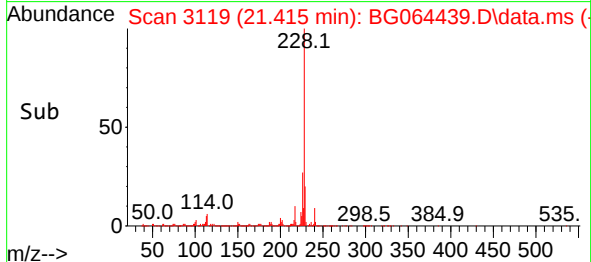
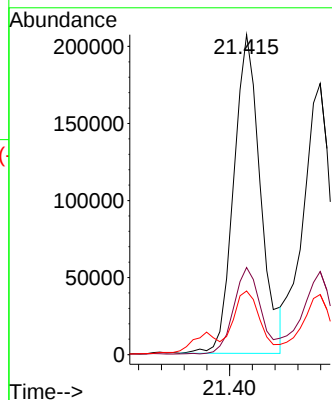
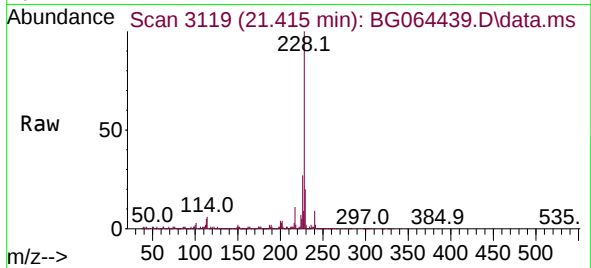




#81
Benzo(a)anthracene
Concen: 31.979 ng
RT: 21.415 min Scan# 31
Delta R.T. -0.022 min
Lab File: BG064439.D
Acq: 23 Sep 2025 14:40

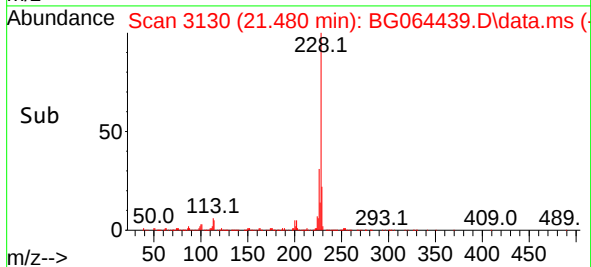
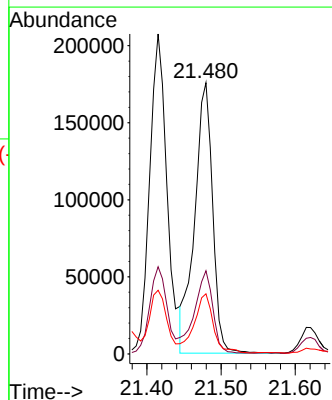
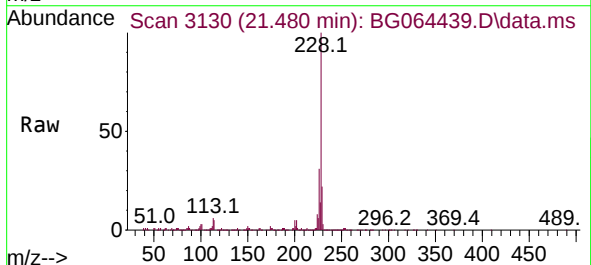
Instrument :
BNA_G
ClientSampleId :
COMP-3

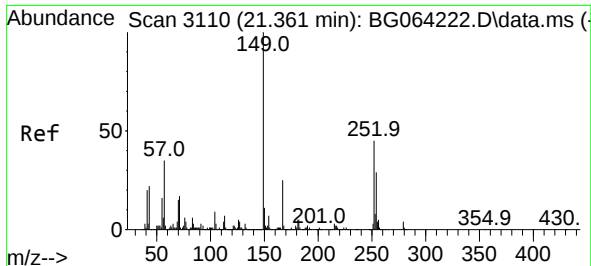
Tgt Ion:228 Resp: 337337
Ion Ratio Lower Upper
228 100
226 27.2 21.7 32.5
229 19.9 15.9 23.9



#83
Chrysene
Concen: 29.273 ng
RT: 21.480 min Scan# 3130
Delta R.T. -0.022 min
Lab File: BG064439.D
Acq: 23 Sep 2025 14:40

Tgt Ion:228 Resp: 296447
Ion Ratio Lower Upper
228 100
226 30.7 24.2 36.2
229 22.2 15.4 23.2

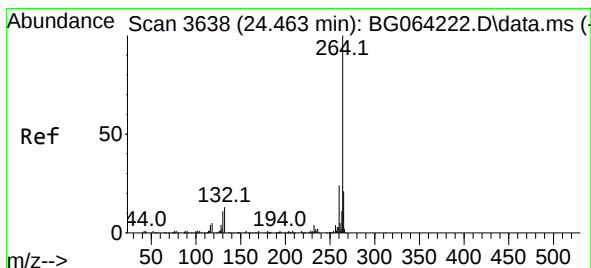
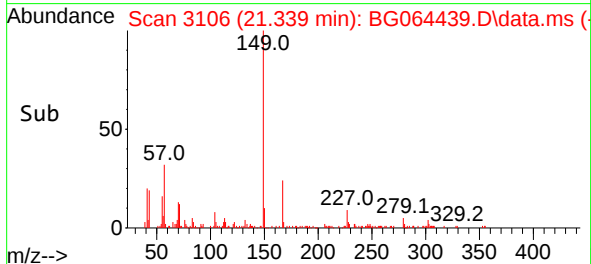
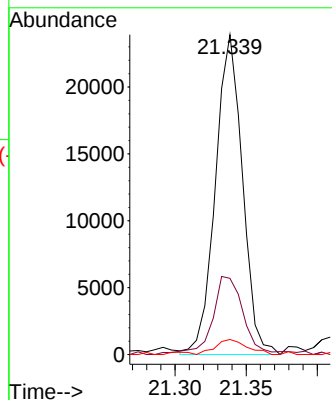
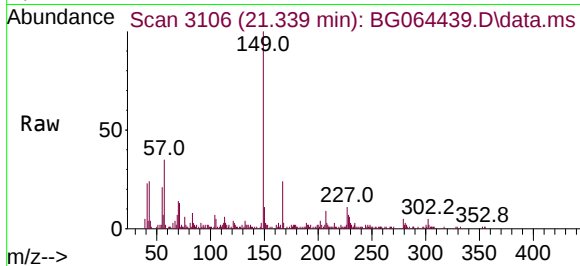




#84
 Bis(2-ethylhexyl)phthalate
 Concen: 5.383 ng
 RT: 21.339 min Scan# 3110
 Delta R.T. -0.028 min
 Lab File: BG064439.D
 Acq: 23 Sep 2025 14:40

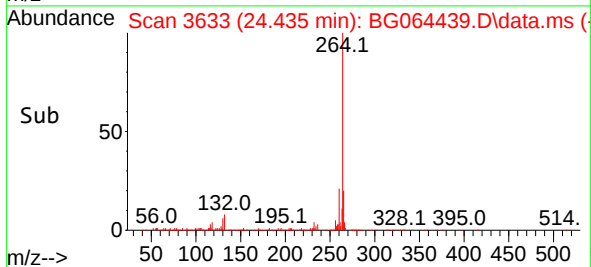
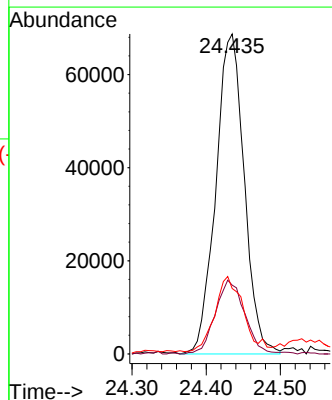
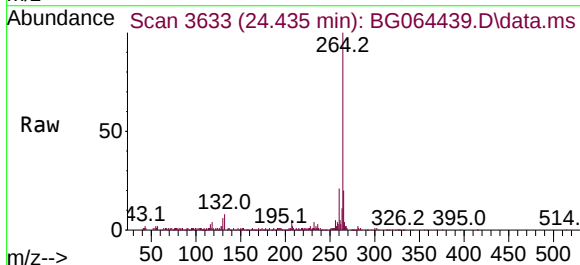
Instrument :
 BNA_G
 ClientSampleId :
 COMP-3

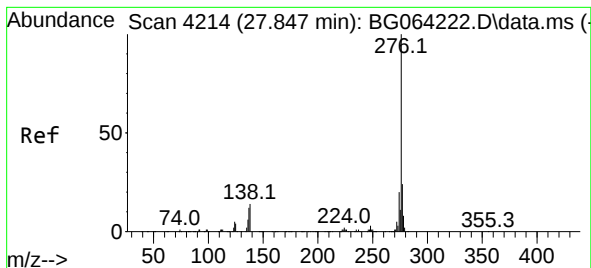
Tgt Ion:149 Resp: 31666
 Ion Ratio Lower Upper
 149 100
 167 23.8 20.0 30.0
 279 4.7 3.0 4.4#



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 24.435 min Scan# 3633
 Delta R.T. -0.028 min
 Lab File: BG064439.D
 Acq: 23 Sep 2025 14:40

Tgt Ion:264 Resp: 182770
 Ion Ratio Lower Upper
 264 100
 260 21.5 18.9 28.3
 265 20.4 16.7 25.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 16.782 ng

RT: 27.807 min Scan# 41

Delta R.T. -0.064 min

Lab File: BG064439.D

Acq: 23 Sep 2025 14:40

Instrument :

BNA_G

ClientSampleId :

COMP-3

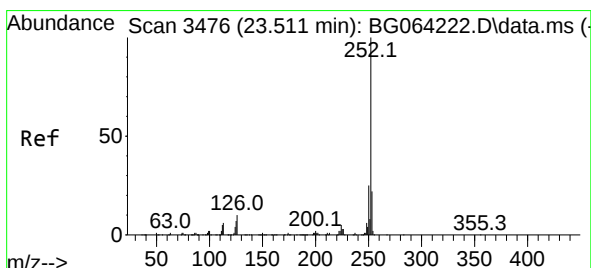
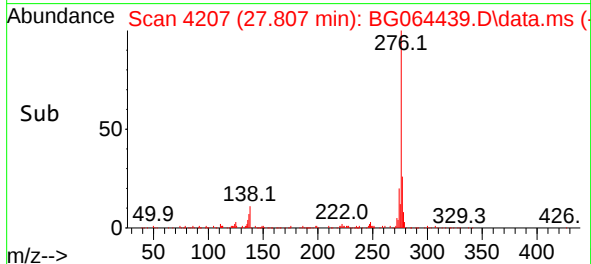
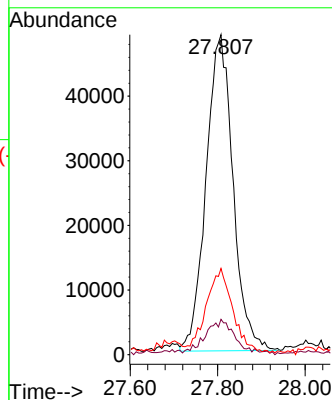
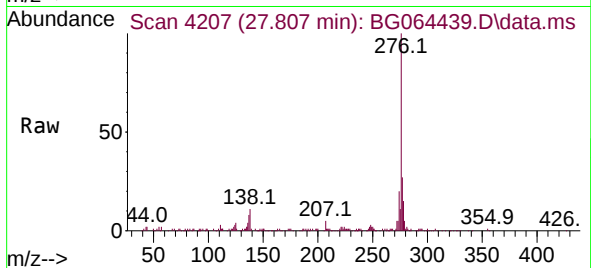
Tgt Ion:276 Resp: 209463

Ion Ratio Lower Upper

276 100

138 10.9 7.4 11.0

277 26.1 20.5 30.7



#88

Benzo(b)fluoranthene

Concen: 40.606 ng

RT: 23.495 min Scan# 3473

Delta R.T. -0.022 min

Lab File: BG064439.D

Acq: 23 Sep 2025 14:40

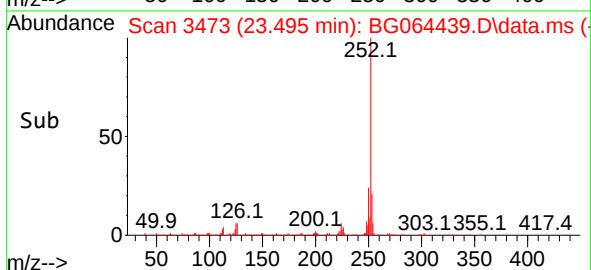
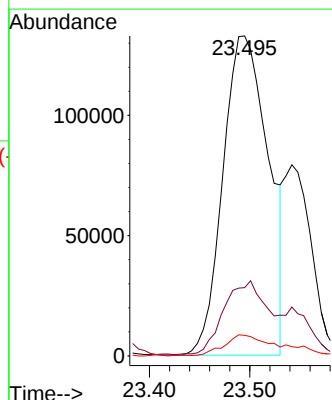
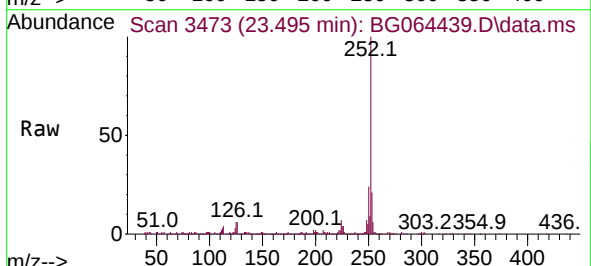
Tgt Ion:252 Resp: 418863

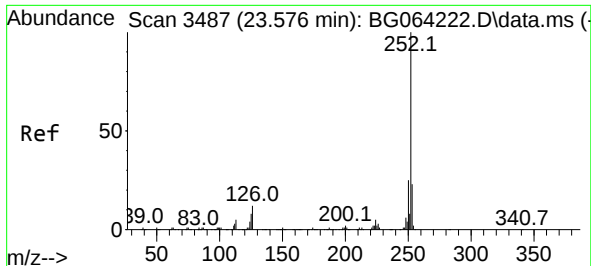
Ion Ratio Lower Upper

252 100

253 21.3 17.5 26.3

125 6.4 5.9 8.9

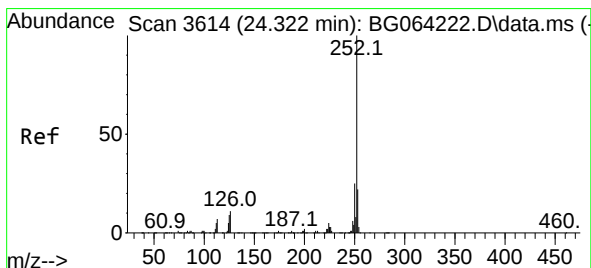
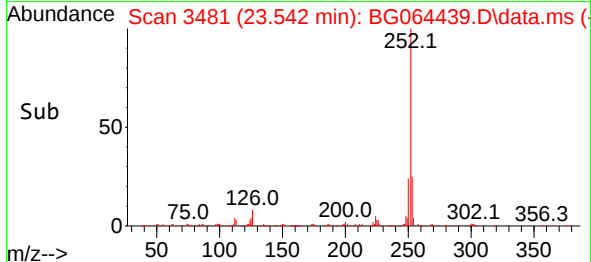
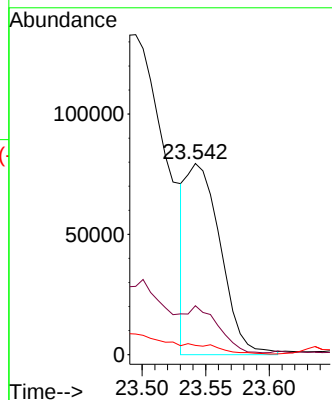
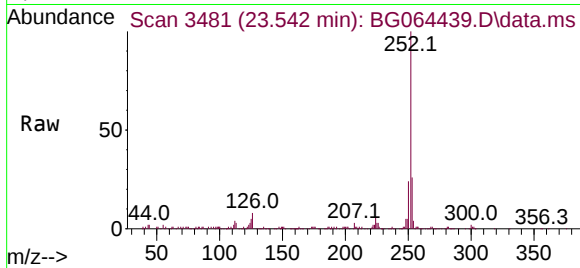




#89
Benzo(k)fluoranthene
Concen: 14.174 ng m
RT: 23.542 min Scan# 3487
Delta R.T. -0.046 min
Lab File: BG064439.D
Acq: 23 Sep 2025 14:40

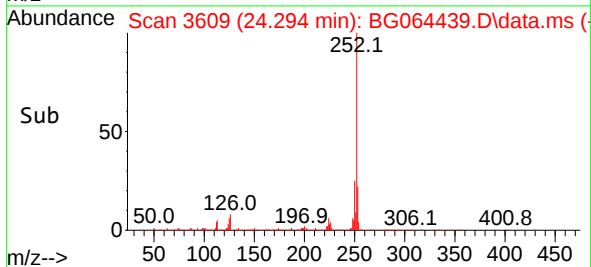
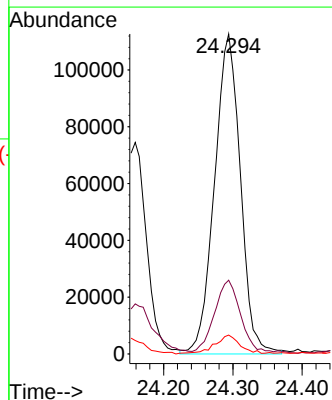
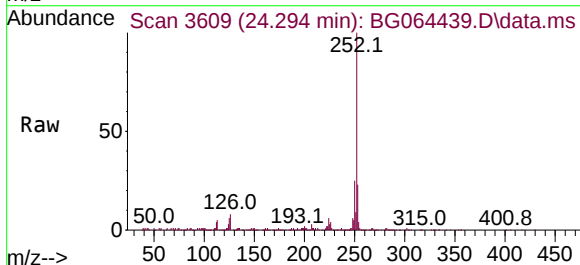
Instrument :
BNA_G
ClientSampleId :
COMP-3

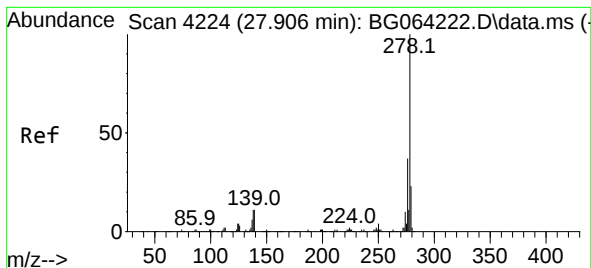
Tgt Ion:252 Resp: 148953
Ion Ratio Lower Upper
252 100
253 25.6 18.2 27.4
125 4.9 7.0 10.4#



#90
Benzo(a)pyrene
Concen: 30.478 ng m
RT: 24.294 min Scan# 3609
Delta R.T. -0.034 min
Lab File: BG064439.D
Acq: 23 Sep 2025 14:40

Tgt Ion:252 Resp: 292453
Ion Ratio Lower Upper
252 100
253 23.0 17.4 26.2
125 5.9 7.0 10.6#





#91

Dibenzo(a,h)anthracene

Concen: 5.081 ng

RT: 27.843 min Scan# 41

Delta R.T. -0.081 min

Lab File: BG064439.D

Acq: 23 Sep 2025 14:40

Instrument :

BNA_G

ClientSampleId :

COMP-3

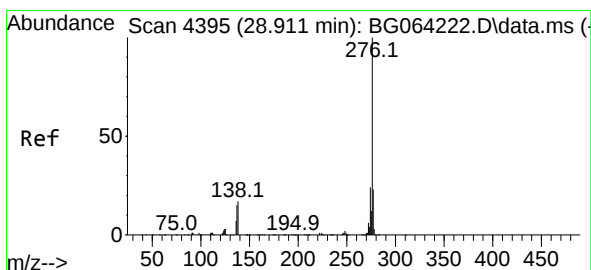
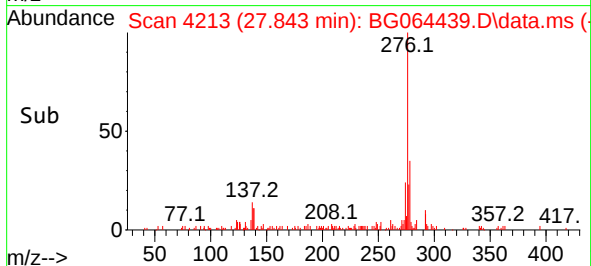
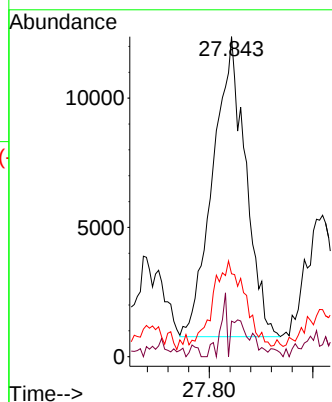
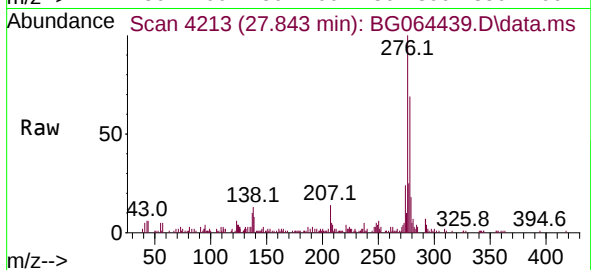
Tgt Ion:278 Resp: 50917

Ion Ratio Lower Upper

278 100

139 11.1 9.0 13.4

279 25.9 18.8 28.2



#92

Benzo(g,h,i)perylene

Concen: 20.021 ng

RT: 28.859 min Scan# 4386

Delta R.T. -0.075 min

Lab File: BG064439.D

Acq: 23 Sep 2025 14:40

Tgt Ion:276 Resp: 195241

Ion Ratio Lower Upper

276 100

277 24.0 18.2 27.4

138 11.5 13.3 19.9#

