

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG102825\
 Data File : BG064612.D
 Acq On : 28 Oct 2025 21:59
 Operator : RC/JU
 Sample : Q3460-01
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 WC-1

Quant Time: Nov 04 05:54:52 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG102425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 03 18:16:26 2025
 Response via : Initial Calibration

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

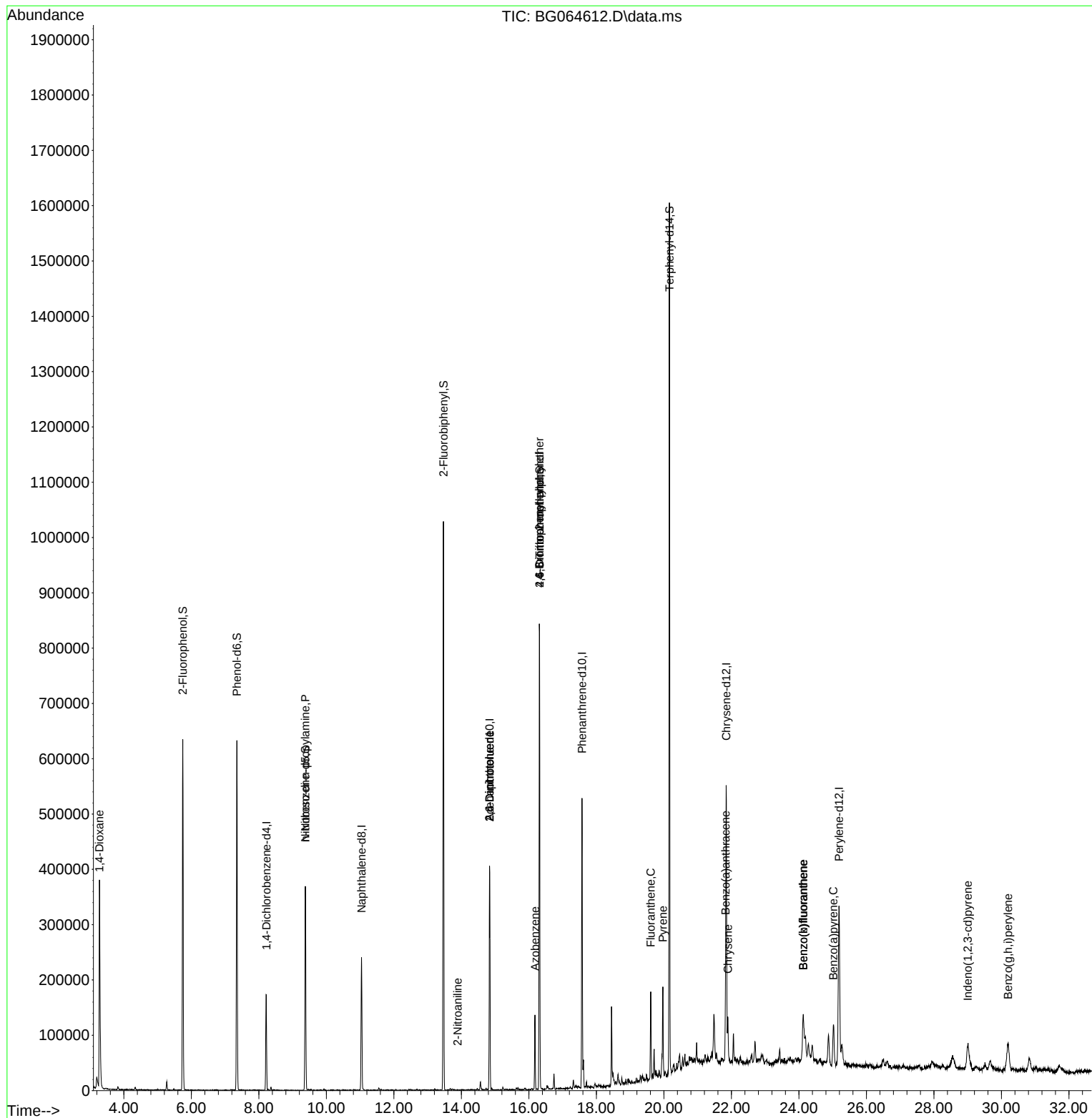
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.220	152	48455	20.000	ng	0.00
21) Naphthalene-d8	11.040	136	191990	20.000	ng	0.00
39) Acenaphthene-d10	14.835	164	148446	20.000	ng	0.00
64) Phenanthrene-d10	17.573	188	328340	20.000	ng	0.00
76) Chrysene-d12	21.845	240	293148	20.000	ng	-0.02
86) Perylene-d12	25.188	264	330220	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.746	112	240508	83.313	ng	0.00
7) Phenol-d6	7.350	99	319066	80.546	ng	0.00
23) Nitrobenzene-d5	9.377	82	198849	62.208	ng	0.00
42) 2,4,6-Tribromophenol	16.316	330	176293	82.283	ng	0.00
45) 2-Fluorobiphenyl	13.466	172	529753	54.092	ng	0.00
79) Terphenyl-d14	20.164	244	794839	51.168	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.272	88	3622	2.834	ng	# 1
19) n-Nitroso-di-n-propyla...	9.377	70	26677	9.744	ng	# 71
48) 2-Nitroaniline	13.889	65	53	3.243	ng	# 10
51) 2,6-Dinitrotoluene	14.835	165	19635	12.972	ng	# 19
57) 2,4-Dinitrotoluene	14.835	165	19635	9.396	ng	# 22
63) Azobenzene	16.181	77	38023	3.573	ng	# 1
65) 4,6-Dinitro-2-methylph...	16.316	198	346	5.639	ng	82
67) 4-Bromophenyl-phenylether	16.310	248	11355	2.918	ng	# 1
75) Fluoranthene	19.612	202	104469	4.644	ng	95
78) Pyrene	19.971	202	99889	5.215	ng	99
81) Benzo(a)anthracene	21.827	228	63403	3.262	ng	95
83) Chrysene	21.898	228	61367	3.318	ng	98
87) Indeno(1,2,3-cd)pyrene	29.001	276	90005	3.705	ng	95
88) Benzo(b)fluoranthene	24.130	252	113474	5.604	ng	# 94
89) Benzo(k)fluoranthene	24.130	252	113474	5.600	ng	# 96
90) Benzo(a)pyrene	25.023	252	85749	4.607	ng	# 97
92) Benzo(g,h,i)perylene	30.194	276	103243	5.476	ng	97

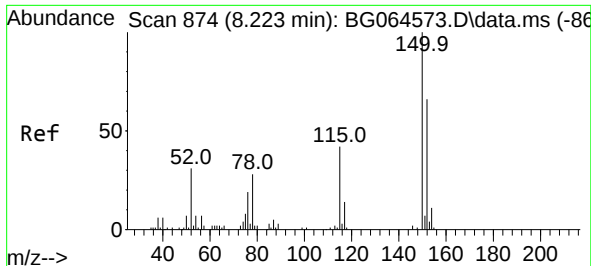
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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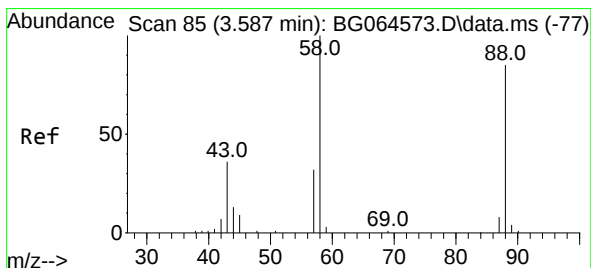
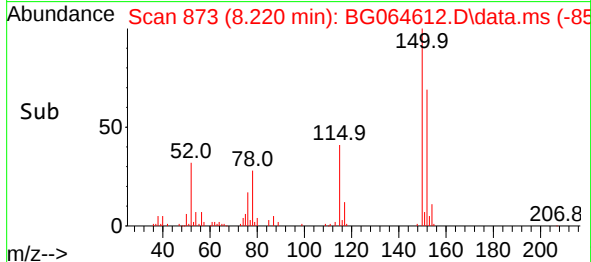
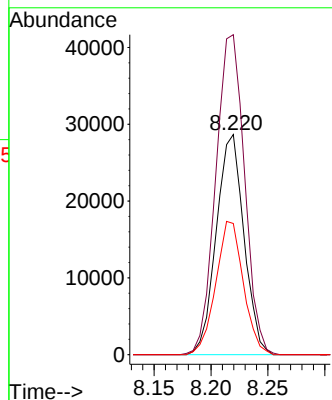
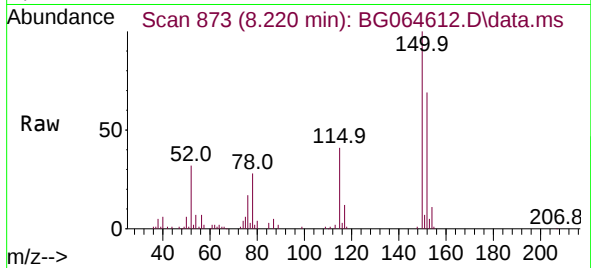




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 8.220 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: BG064612.D
 Acq: 28 Oct 2025 21:59

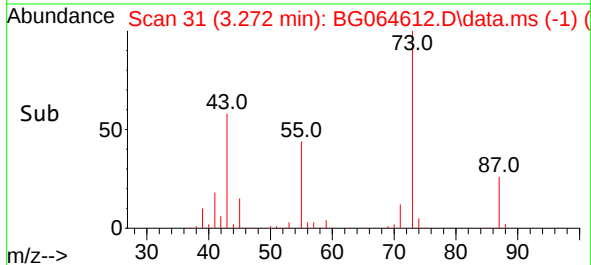
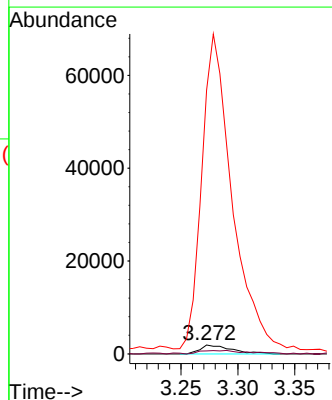
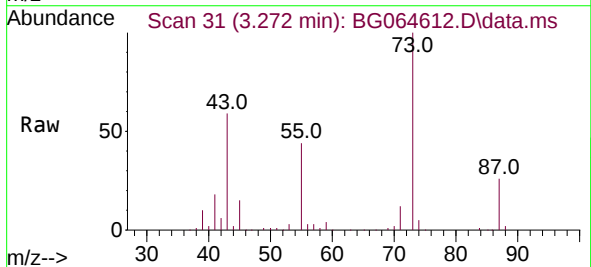
Instrument :
 BNA_G
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 WC-1

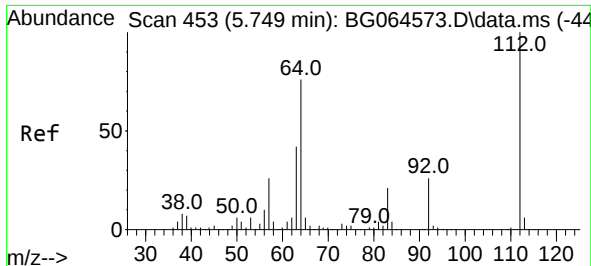
Tgt Ion:152 Resp: 48455
 Ion Ratio Lower Upper
 152 100
 150 145.4 122.2 183.4
 115 59.6 50.8 76.2



#2
 1,4-Dioxane
 Concen: 2.834 ng
 RT: 3.272 min Scan# 31
 Delta R.T. -0.315 min
 Lab File: BG064612.D
 Acq: 28 Oct 2025 21:59

Tgt Ion: 88 Resp: 3622
 Ion Ratio Lower Upper
 88 100
 58 58.8 92.4 138.6#
 43 3558.9 33.0 49.6#

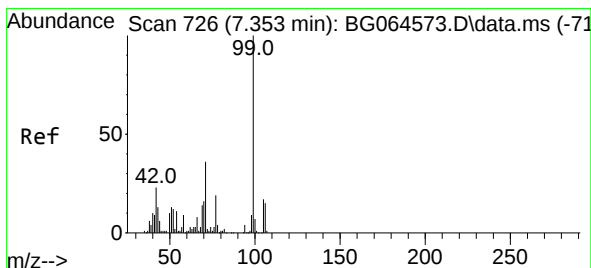
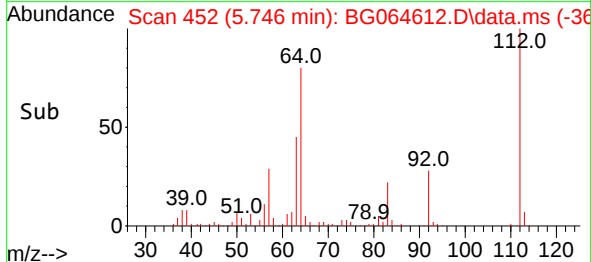
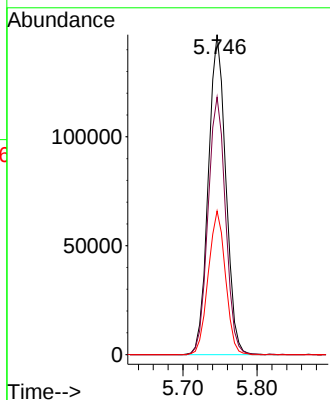
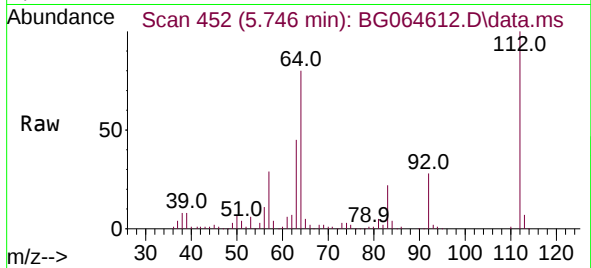




#5
2-Fluorophenol
Concen: 83.313 ng
RT: 5.746 min Scan# 41
Delta R.T. -0.003 min
Lab File: BG064612.D
Acq: 28 Oct 2025 21:59

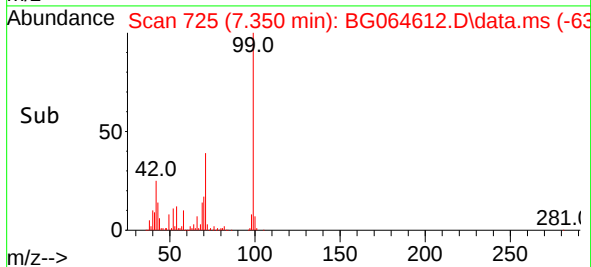
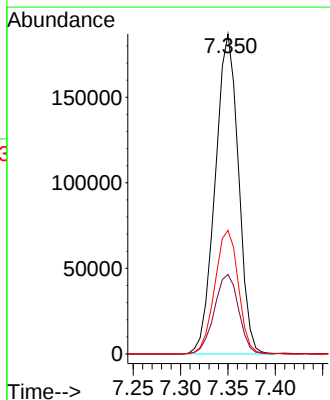
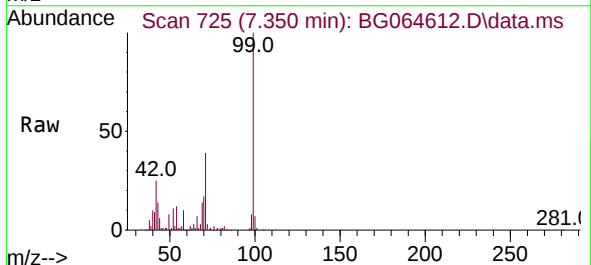
Instrument :
BNA_G
ClientSampleId :
WC-1

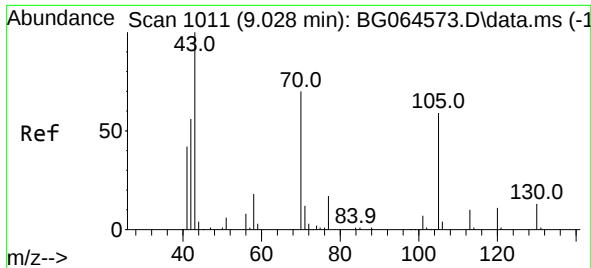
Tgt Ion:112 Resp: 240508
Ion Ratio Lower Upper
112 100
64 80.5 60.7 91.1
63 44.9 33.4 50.0



#7
Phenol-d6
Concen: 80.546 ng
RT: 7.350 min Scan# 725
Delta R.T. -0.003 min
Lab File: BG064612.D
Acq: 28 Oct 2025 21:59

Tgt Ion: 99 Resp: 319066
Ion Ratio Lower Upper
99 100
42 24.8 18.3 27.5
71 38.6 28.6 43.0

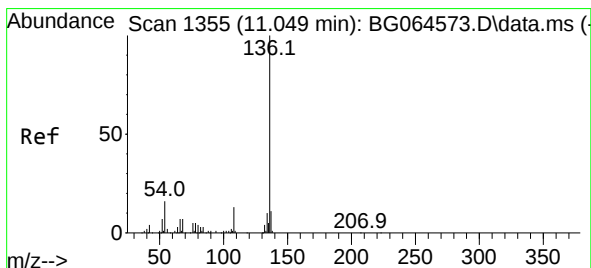
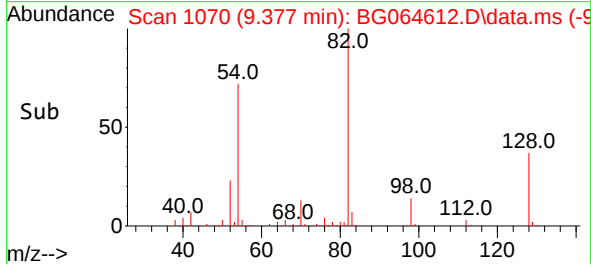
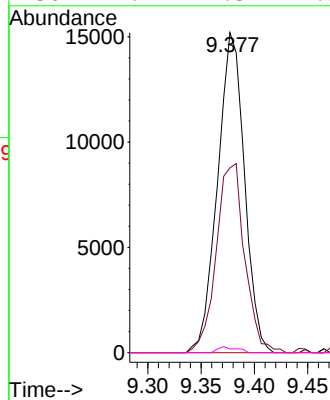
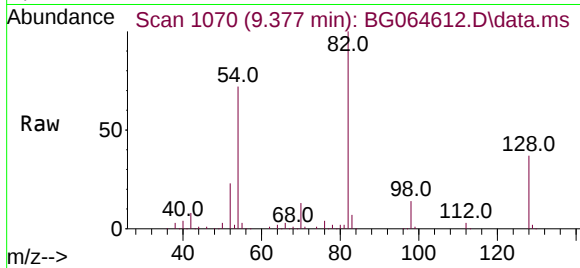




#19
n-Nitroso-di-n-propylamine
Concen: 9.744 ng
RT: 9.377 min Scan# 1011
Delta R.T. 0.349 min
Lab File: BG064612.D
Acq: 28 Oct 2025 21:59

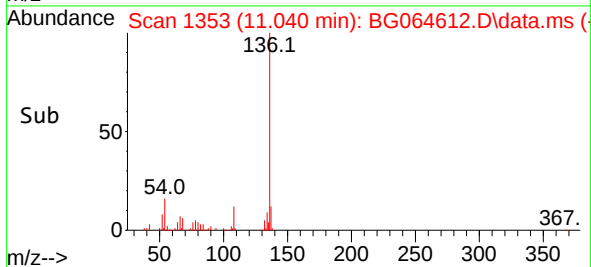
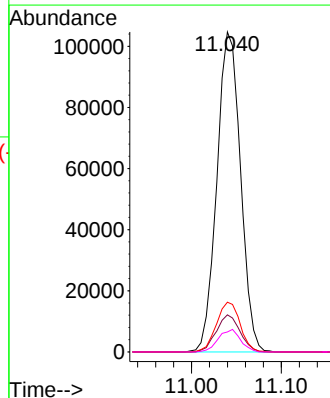
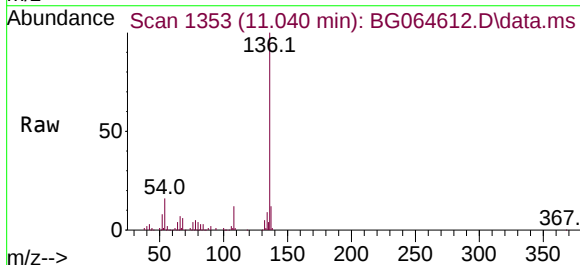
Instrument :
BNA_G
ClientSampleId :
WC-1

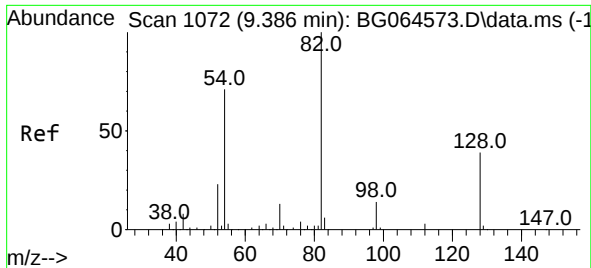
Tgt Ion:	70	Resp:	26677
Ion	Ratio	Lower	Upper
70	100		
42	57.7	65.2	97.8#
101	0.0	7.9	11.9#
130	1.1	14.3	21.5#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.040 min Scan# 1353
Delta R.T. -0.009 min
Lab File: BG064612.D
Acq: 28 Oct 2025 21:59

Tgt Ion:	136	Resp:	191990
Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.2	13.8
54	15.5	12.6	19.0
68	6.2	5.7	8.5

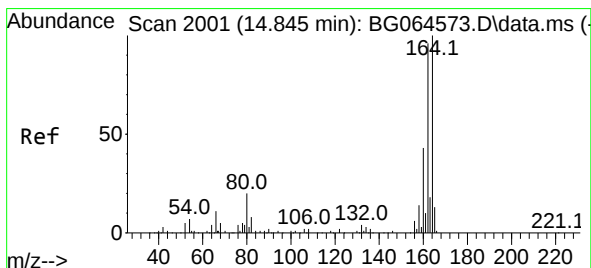
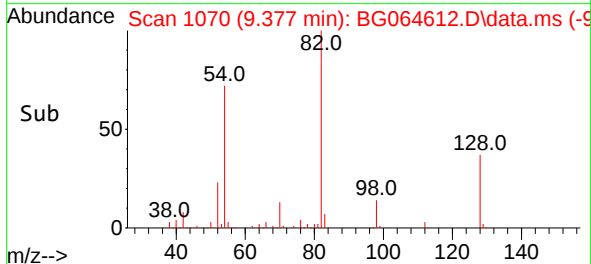
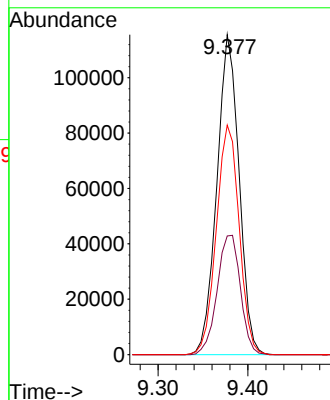
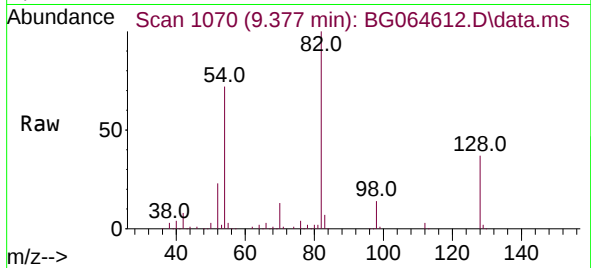




#23
Nitrobenzene-d5
Concen: 62.208 ng
RT: 9.377 min Scan# 1072
Delta R.T. -0.009 min
Lab File: BG064612.D
Acq: 28 Oct 2025 21:59

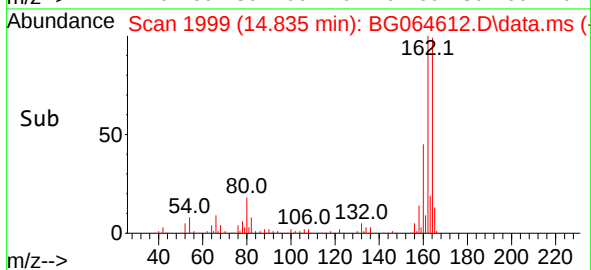
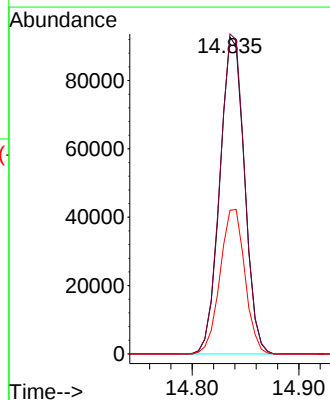
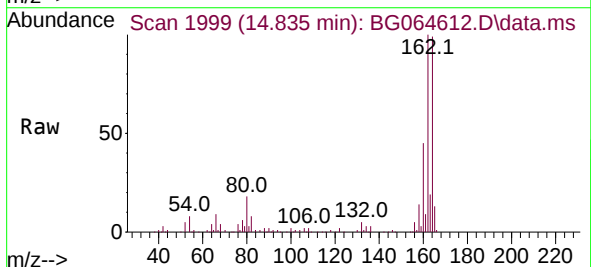
Instrument :
BNA_G
ClientSampleId :
WC-1

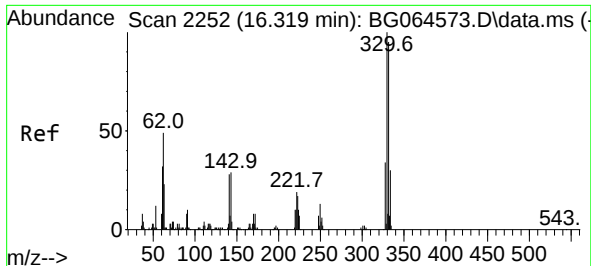
Tgt Ion: 82 Resp: 198849
Ion Ratio Lower Upper
82 100
128 37.1 31.3 46.9
54 71.7 56.6 84.8



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.835 min Scan# 1999
Delta R.T. -0.009 min
Lab File: BG064612.D
Acq: 28 Oct 2025 21:59

Tgt Ion: 164 Resp: 148446
Ion Ratio Lower Upper
164 100
162 101.0 77.0 115.6
160 45.3 34.4 51.6

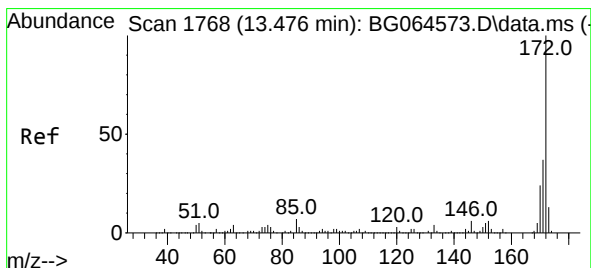
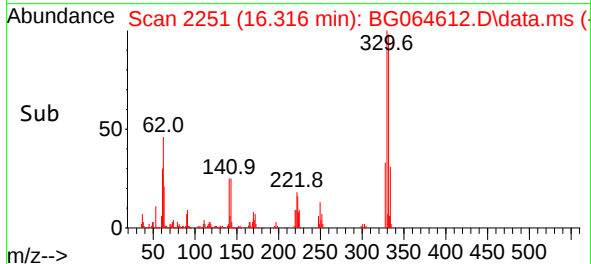
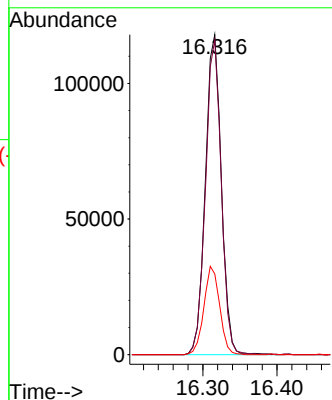
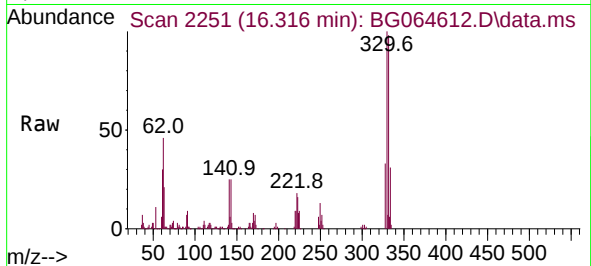




#42
2,4,6-Tribromophenol
Concen: 82.283 ng
RT: 16.316 min Scan# 21
Delta R.T. -0.003 min
Lab File: BG064612.D
Acq: 28 Oct 2025 21:59

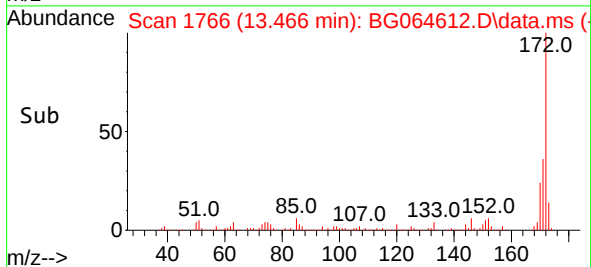
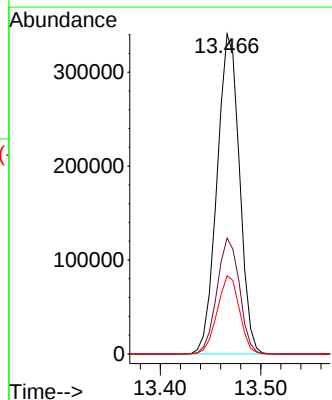
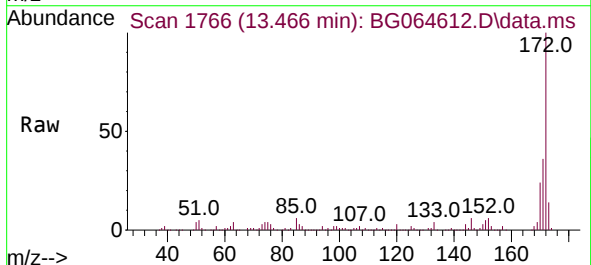
Instrument :
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ClientSampleId :
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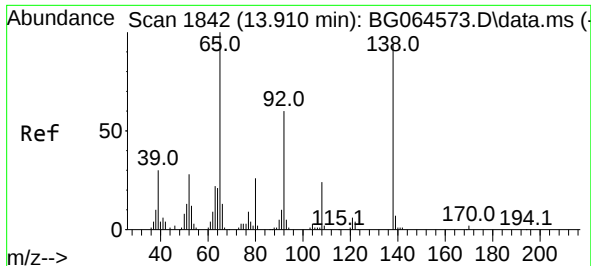
Tgt Ion:330 Resp: 176293
Ion Ratio Lower Upper
330 100
332 97.0 78.0 117.0
141 27.2 21.8 32.6



#45
2-Fluorobiphenyl
Concen: 54.092 ng
RT: 13.466 min Scan# 1766
Delta R.T. -0.009 min
Lab File: BG064612.D
Acq: 28 Oct 2025 21:59

Tgt Ion:172 Resp: 529753
Ion Ratio Lower Upper
172 100
171 36.2 29.4 44.0
170 24.4 19.1 28.7

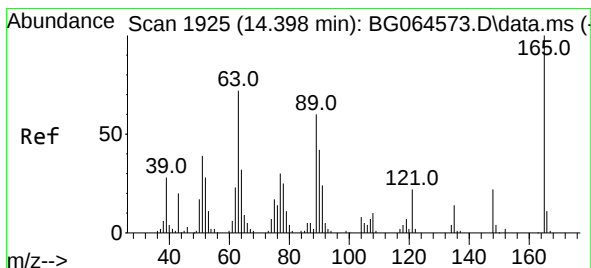
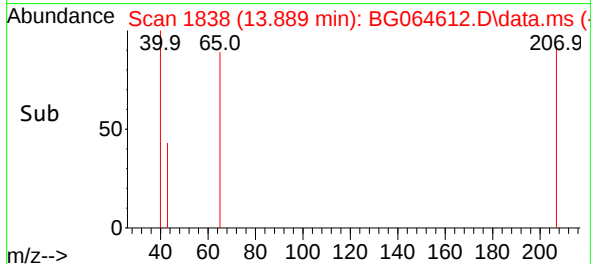
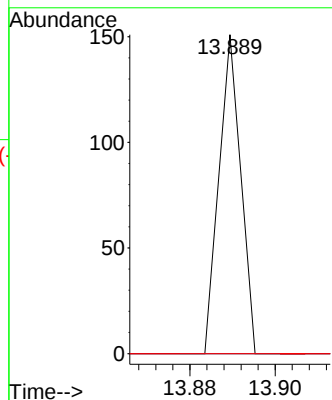
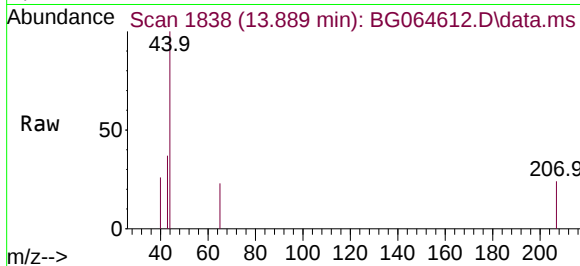




#48
2-Nitroaniline
Concen: 3.243 ng
RT: 13.889 min Scan# 1842
Delta R.T. -0.021 min
Lab File: BG064612.D
Acq: 28 Oct 2025 21:59

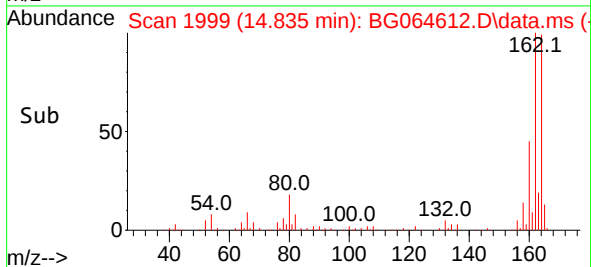
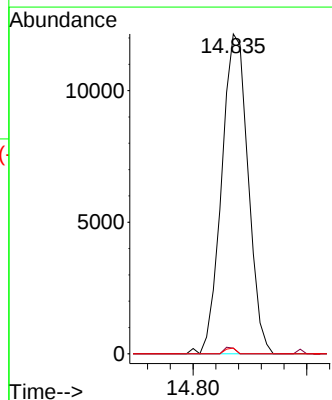
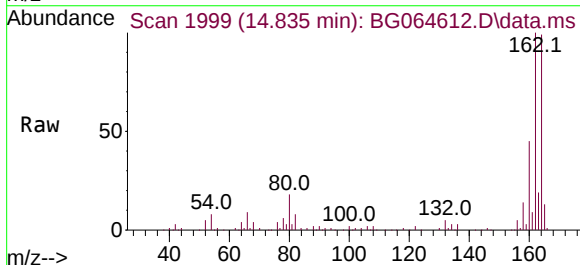
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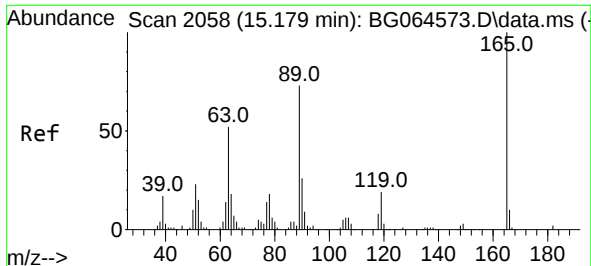
Tgt Ion: 65 Resp: 53
Ion Ratio Lower Upper
65 100
92 0.0 48.3 72.5#
138 0.0 74.9 112.3#



#51
2,6-Dinitrotoluene
Concen: 12.972 ng
RT: 14.835 min Scan# 1999
Delta R.T. 0.437 min
Lab File: BG064612.D
Acq: 28 Oct 2025 21:59

Tgt Ion:165 Resp: 19635
Ion Ratio Lower Upper
165 100
63 1.8 57.4 86.0#
89 1.8 47.8 71.8#

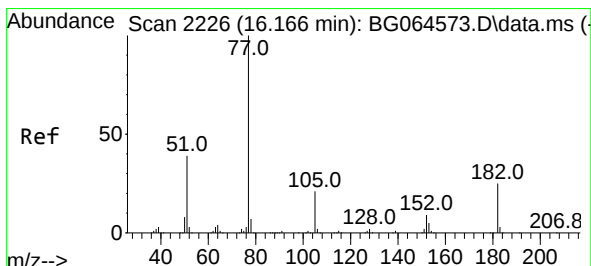
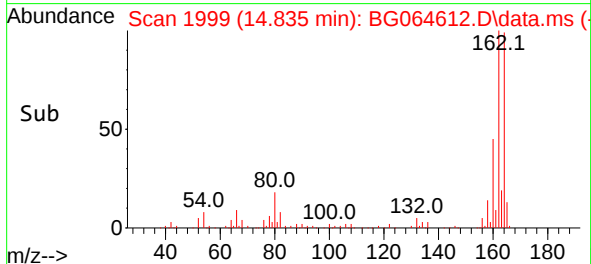
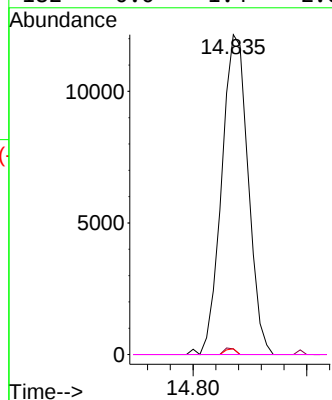
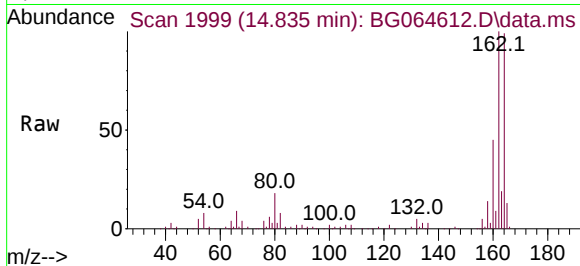




#57
2,4-Dinitrotoluene
Concen: 9.396 ng
RT: 14.835 min Scan# 19
Delta R.T. -0.344 min
Lab File: BG064612.D
Acq: 28 Oct 2025 21:59

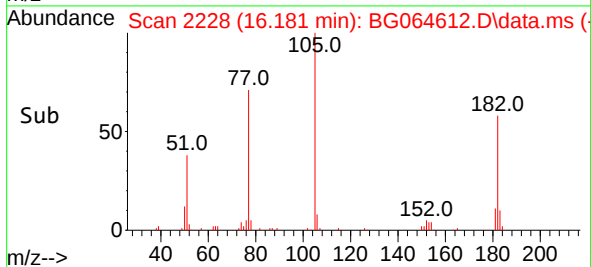
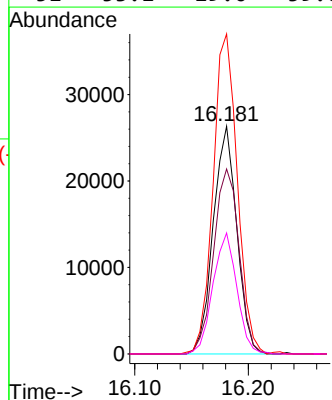
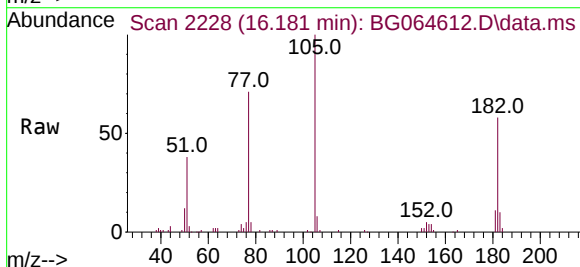
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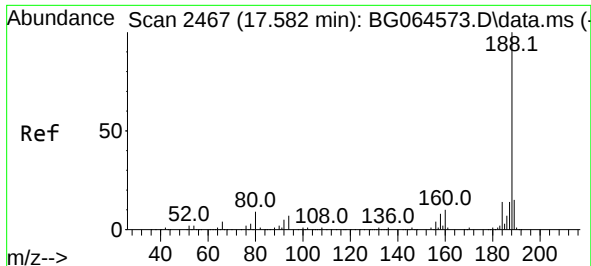
Tgt Ion:165	Resp:	19635
Ion Ratio	Lower	Upper
165	100	
63	1.8	41.8 62.8#
89	1.8	58.1 87.1#
182	0.0	1.4 2.0#



#63
Azobenzene
Concen: 3.573 ng
RT: 16.181 min Scan# 2228
Delta R.T. 0.014 min
Lab File: BG064612.D
Acq: 28 Oct 2025 21:59

Tgt Ion: 77	Resp:	38023
Ion Ratio	Lower	Upper
77	100	
182	81.3	4.9 44.9#
105	140.6	1.3 41.3#
51	53.1	19.0 59.0

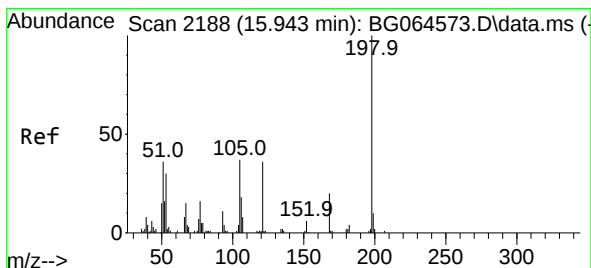
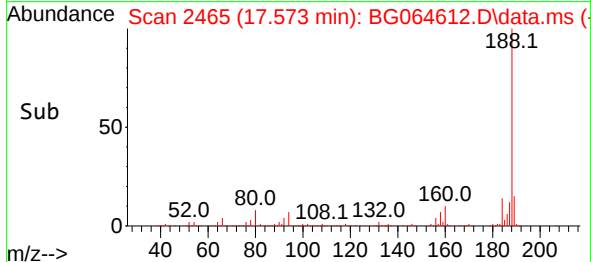
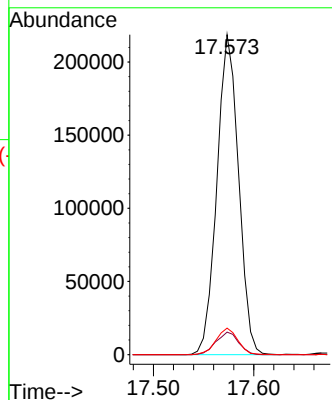
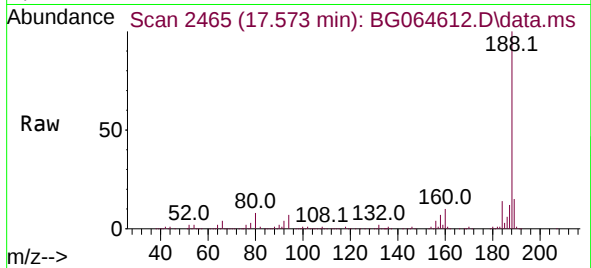




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.573 min Scan# 2465
Delta R.T. -0.009 min
Lab File: BG064612.D
Acq: 28 Oct 2025 21:59

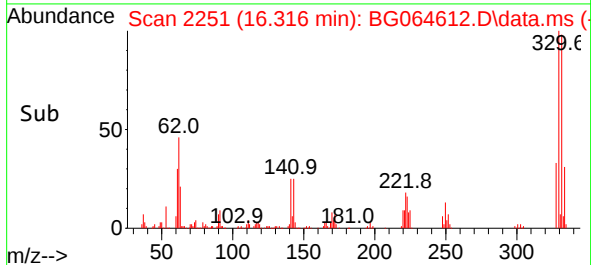
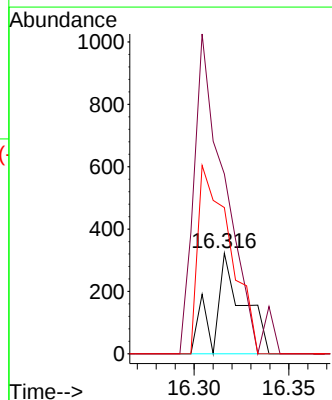
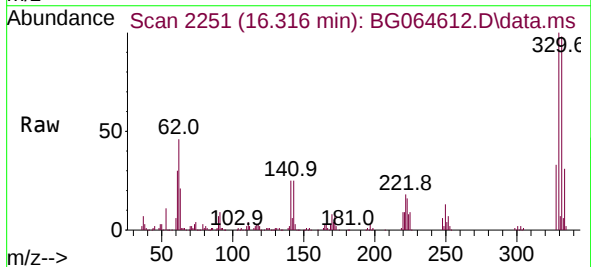
Instrument :
BNA_G
ClientSampleId :
WC-1

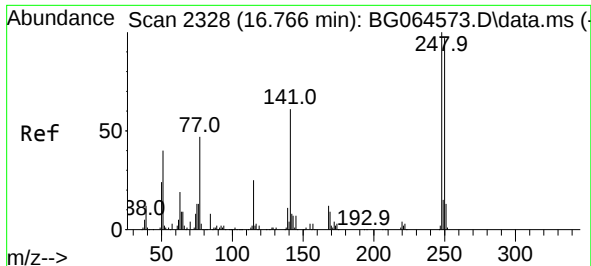
Tgt Ion:188 Resp: 328340
Ion Ratio Lower Upper
188 100
94 7.0 5.7 8.5
80 8.3 6.8 10.2



#65
4,6-Dinitro-2-methylphenol
Concen: 5.639 ng
RT: 16.316 min Scan# 2251
Delta R.T. 0.373 min
Lab File: BG064612.D
Acq: 28 Oct 2025 21:59

Tgt Ion:198 Resp: 346
Ion Ratio Lower Upper
198 100
51 32.9 24.7 64.7
105 26.7 18.0 58.0

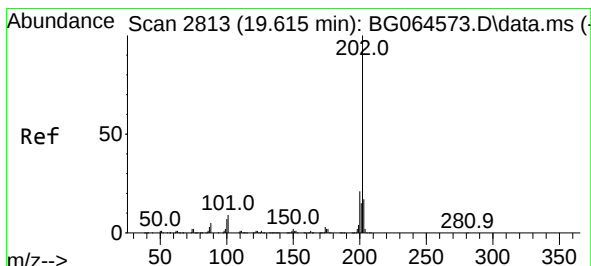
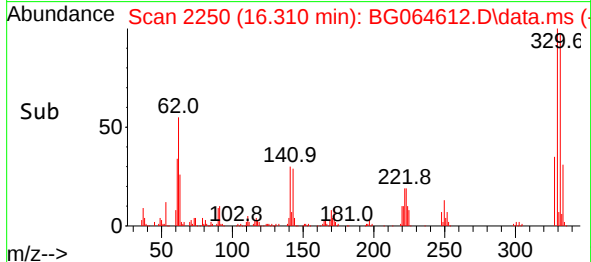
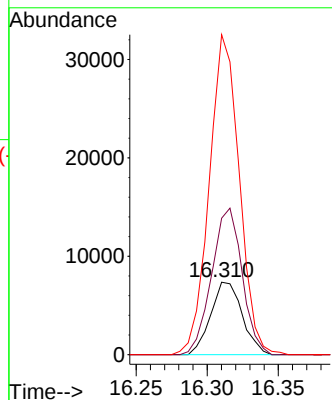
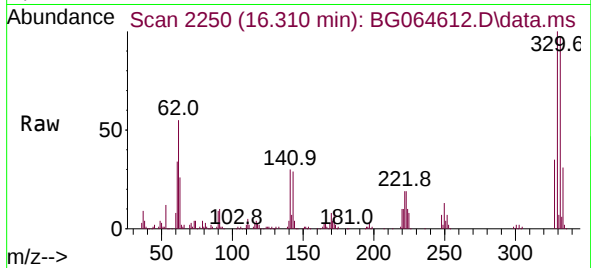




#67
4-Bromophenyl-phenylether
Concen: 2.918 ng
RT: 16.310 min Scan# 211
Delta R.T. -0.456 min
Lab File: BG064612.D
Acq: 28 Oct 2025 21:59

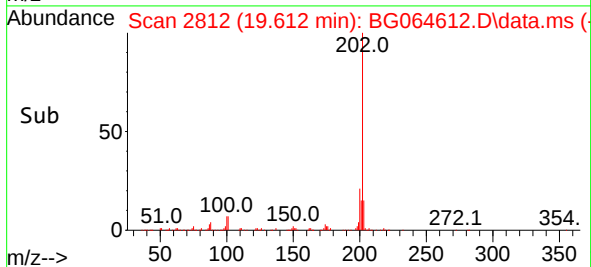
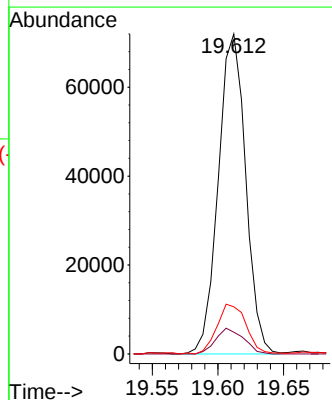
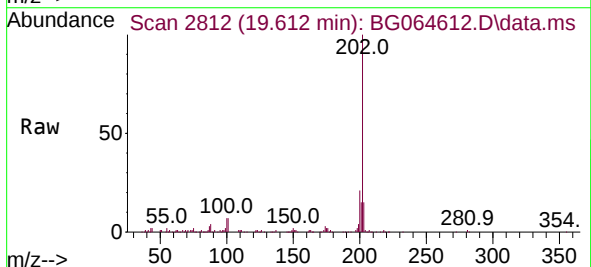
Instrument :
BNA_G
ClientSampleId :
WC-1

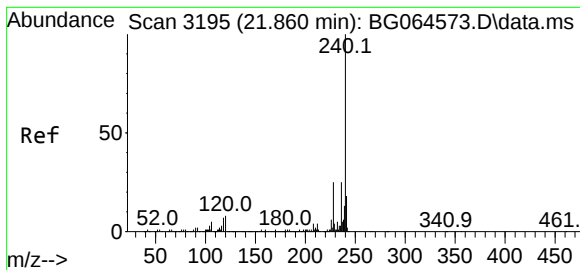
Tgt Ion:248 Resp: 11355
Ion Ratio Lower Upper
248 100
250 251.7 77.7 116.5#
141 442.1 48.6 72.8#



#75
Fluoranthene
Concen: 4.644 ng
RT: 19.612 min Scan# 2812
Delta R.T. -0.003 min
Lab File: BG064612.D
Acq: 28 Oct 2025 21:59

Tgt Ion:202 Resp: 104469
Ion Ratio Lower Upper
202 100
101 6.8 0.0 28.7
203 14.7 0.0 37.0





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.845 min Scan# 31

Delta R.T. -0.015 min

Lab File: BG064612.D

Acq: 28 Oct 2025 21:59

Instrument :

BNA_G

ClientSampleId :

WC-1

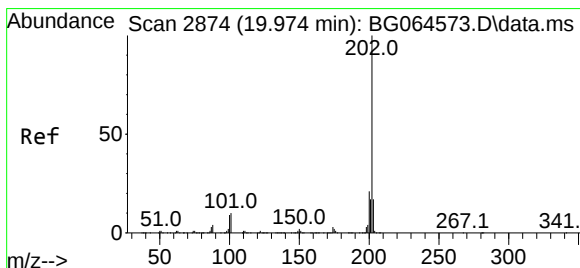
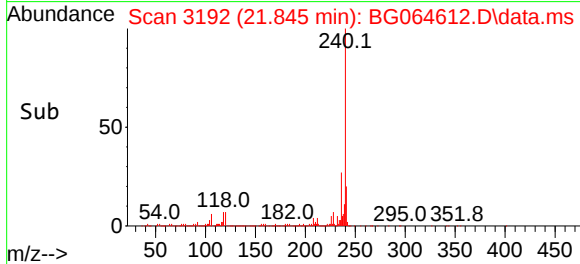
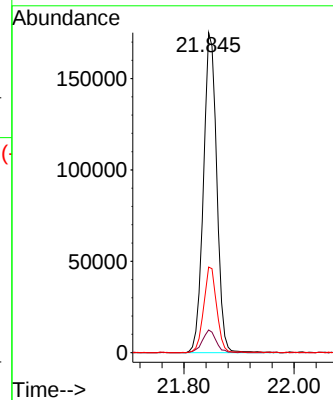
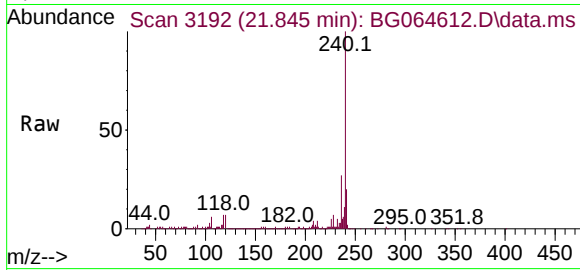
Tgt Ion:240 Resp: 293148

Ion Ratio Lower Upper

240 100

120 7.1 6.5 9.7

236 26.7 20.2 30.2



#78

Pyrene

Concen: 5.215 ng

RT: 19.971 min Scan# 2873

Delta R.T. -0.003 min

Lab File: BG064612.D

Acq: 28 Oct 2025 21:59

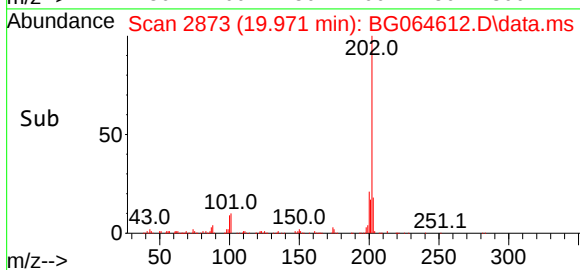
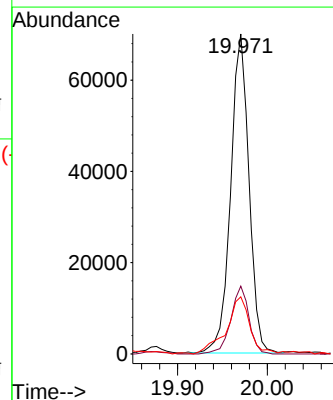
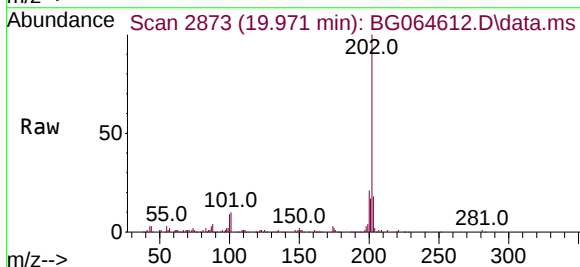
Tgt Ion:202 Resp: 99889

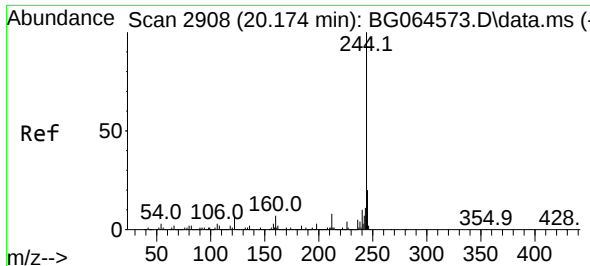
Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.4

203 17.8 13.8 20.6

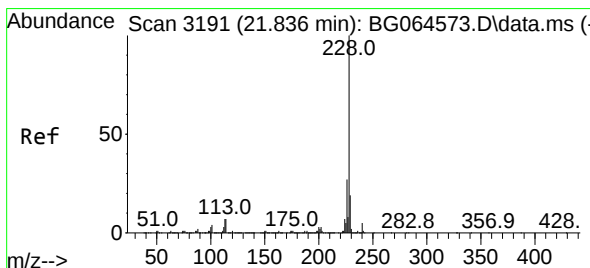
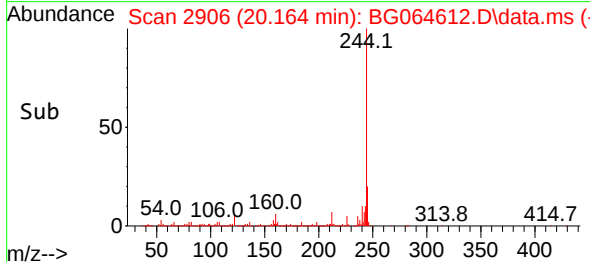
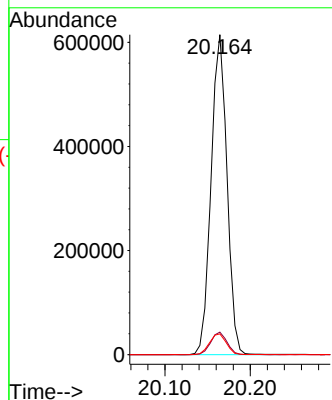
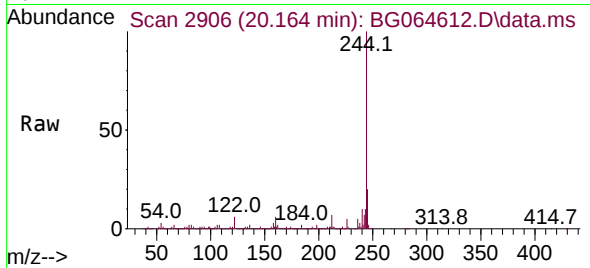




#79
 Terphenyl-d14
 Concen: 51.168 ng
 RT: 20.164 min Scan# 2906
 Delta R.T. -0.009 min
 Lab File: BG064612.D
 Acq: 28 Oct 2025 21:59

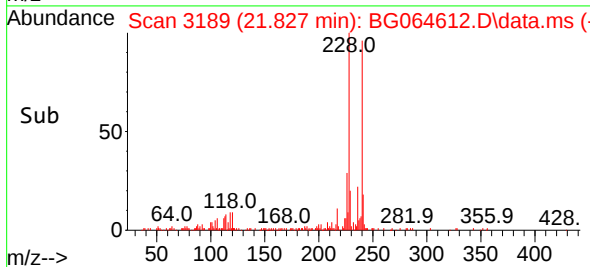
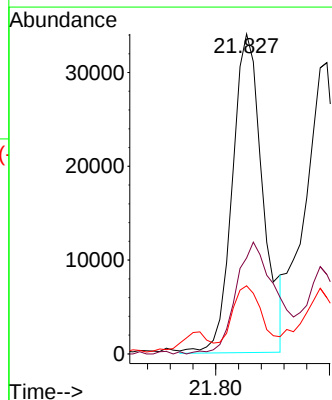
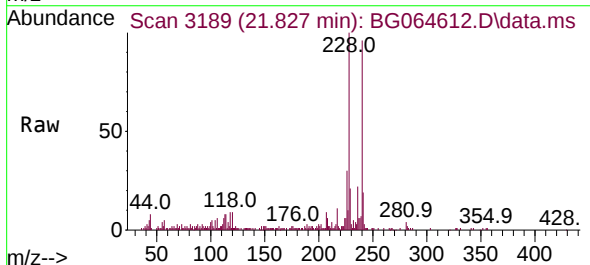
Instrument :
 BNA_G
 ClientSampleId :
 WC-1

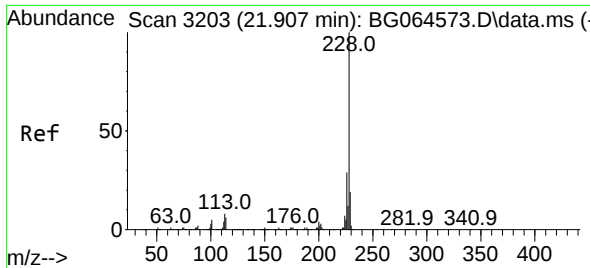
Tgt Ion:244 Resp: 794839
 Ion Ratio Lower Upper
 244 100
 212 7.0 6.1 9.1
 122 6.5 5.6 8.4



#81
 Benzo(a)anthracene
 Concen: 3.262 ng
 RT: 21.827 min Scan# 3189
 Delta R.T. -0.009 min
 Lab File: BG064612.D
 Acq: 28 Oct 2025 21:59

Tgt Ion:228 Resp: 63403
 Ion Ratio Lower Upper
 228 100
 226 30.0 21.9 32.9
 229 21.3 15.6 23.4





#83

Chrysene

Concen: 3.318 ng

RT: 21.898 min Scan# 31

Delta R.T. -0.009 min

Lab File: BG064612.D

Acq: 28 Oct 2025 21:59

Instrument :

BNA_G

ClientSampleId :

WC-1

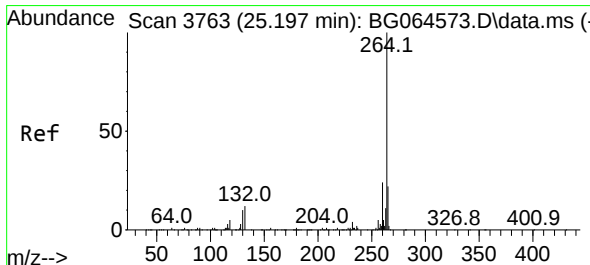
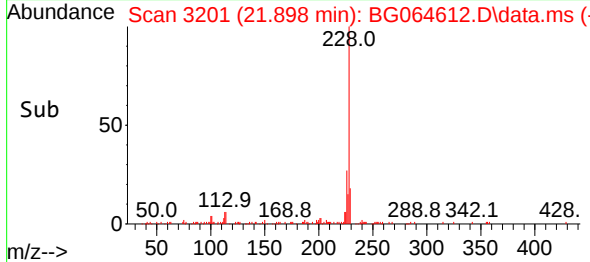
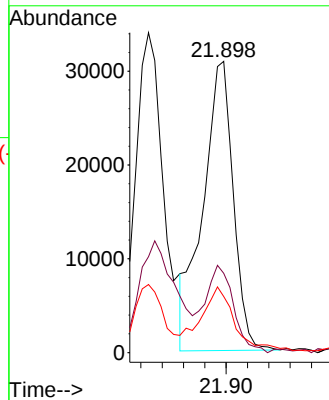
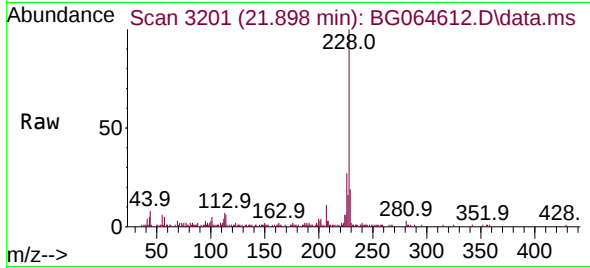
Tgt Ion:228 Resp: 61367

Ion Ratio Lower Upper

228 100

226 27.2 23.3 34.9

229 19.2 15.2 22.8



#86

Perylene-d12

Concen: 20.000 ng

RT: 25.188 min Scan# 3761

Delta R.T. -0.009 min

Lab File: BG064612.D

Acq: 28 Oct 2025 21:59

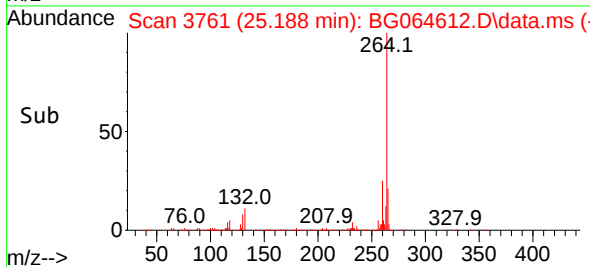
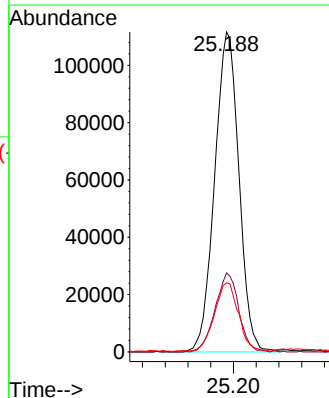
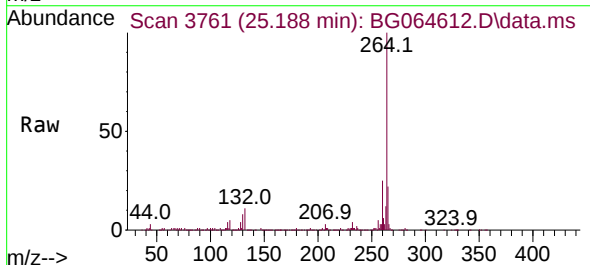
Tgt Ion:264 Resp: 330220

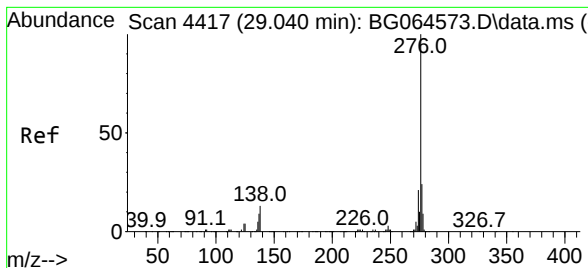
Ion Ratio Lower Upper

264 100

260 24.7 19.0 28.4

265 21.6 17.6 26.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.705 ng

RT: 29.001 min Scan# 4417

Delta R.T. -0.039 min

Lab File: BG064612.D

Acq: 28 Oct 2025 21:59

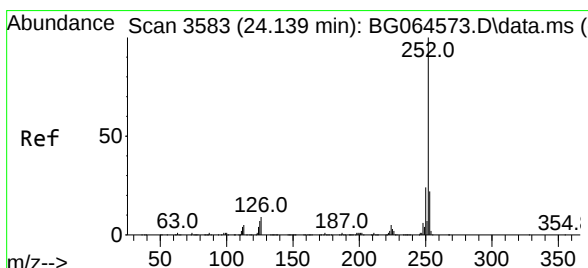
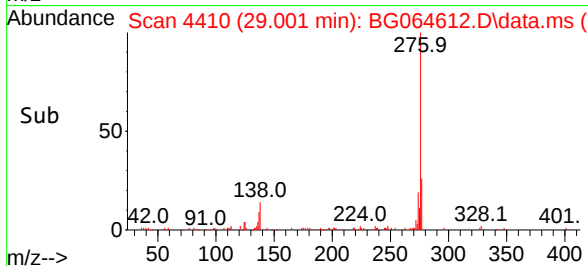
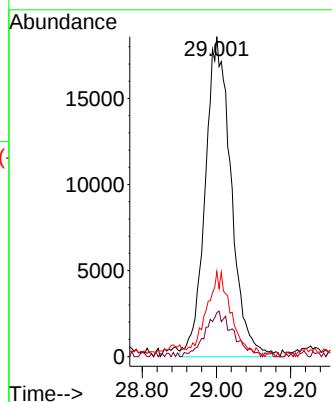
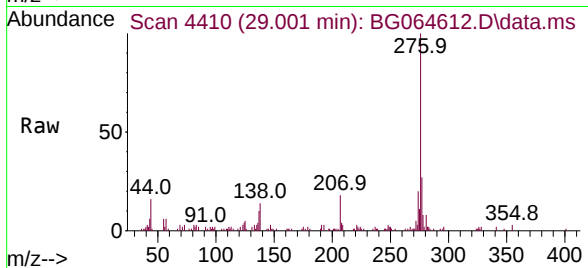
Instrument :

BNA_G

ClientSampleId :

WC-1

Tgt Ion:	276	Resp:	90005
Ion Ratio	Lower	Upper	
276	100		
138	15.3	10.8	16.2
277	22.6	20.1	30.1



#88

Benzo(b)fluoranthene

Concen: 5.604 ng

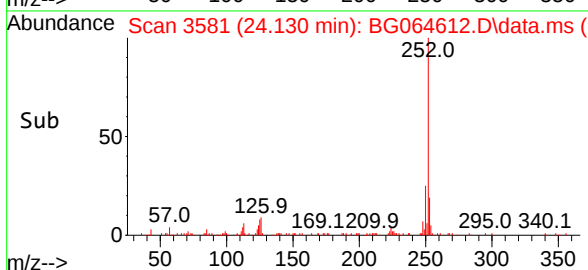
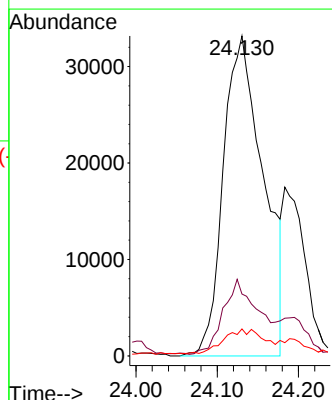
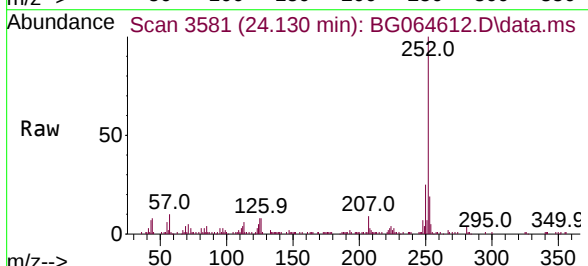
RT: 24.130 min Scan# 3581

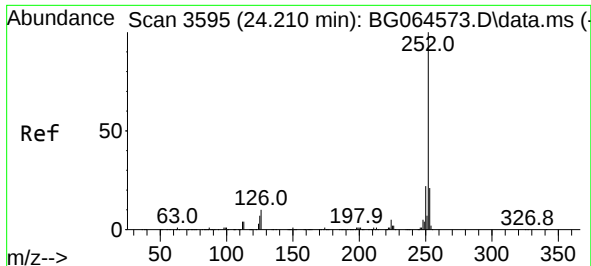
Delta R.T. -0.009 min

Lab File: BG064612.D

Acq: 28 Oct 2025 21:59

Tgt Ion:	252	Resp:	113474
Ion Ratio	Lower	Upper	
252	100		
253	19.3	17.8	26.8
125	8.4	5.6	8.4

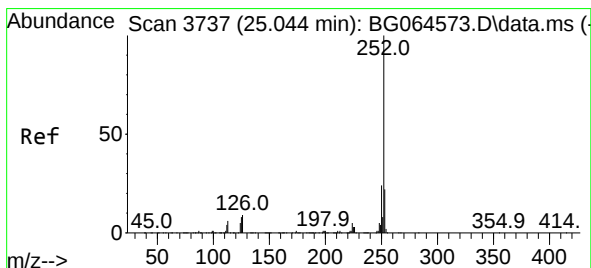
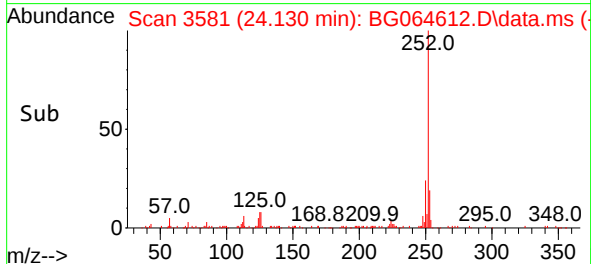
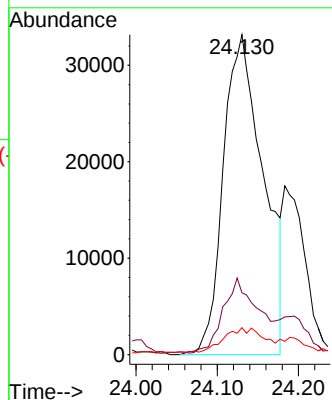
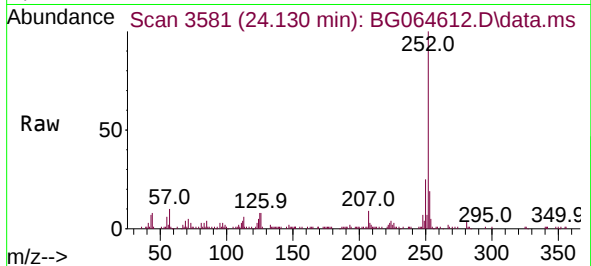




#89
Benzo(k)fluoranthene
Concen: 5.600 ng
RT: 24.130 min Scan# 31
Delta R.T. -0.080 min
Lab File: BG064612.D
Acq: 28 Oct 2025 21:59

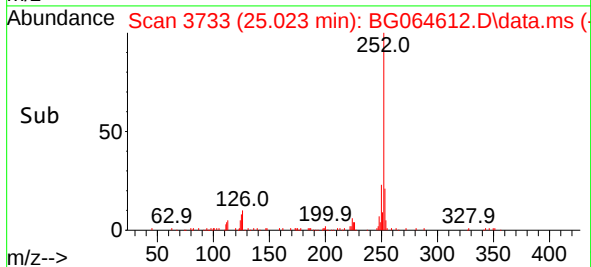
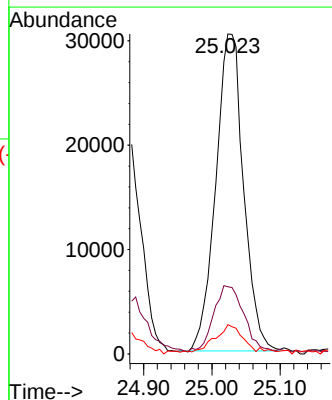
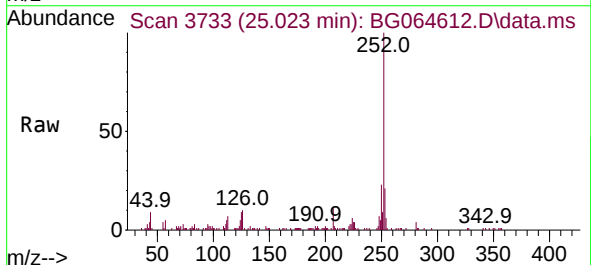
Instrument :
BNA_G
ClientSampleId :
WC-1

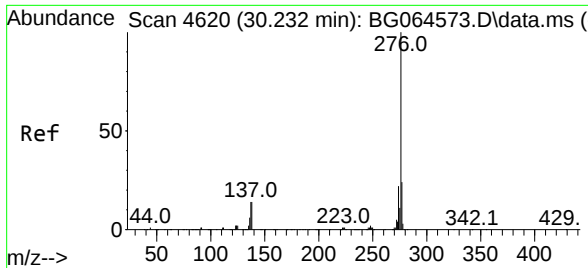
Tgt Ion:252 Resp: 113474
Ion Ratio Lower Upper
252 100
253 19.3 16.8 25.2
125 8.4 5.4 8.0#



#90
Benzo(a)pyrene
Concen: 4.607 ng
RT: 25.023 min Scan# 3733
Delta R.T. -0.021 min
Lab File: BG064612.D
Acq: 28 Oct 2025 21:59

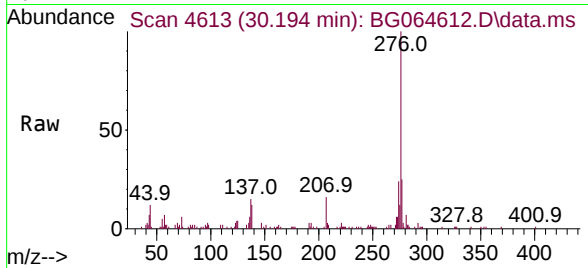
Tgt Ion:252 Resp: 85749
Ion Ratio Lower Upper
252 100
253 21.0 17.6 26.4
125 9.1 6.1 9.1#





#92
 Benzo(g,h,i)perylene
 Concen: 5.476 ng
 RT: 30.194 min Scan# 4613
 Delta R.T. -0.039 min
 Lab File: BG064612.D
 Acq: 28 Oct 2025 21:59

Instrument :
 BNA_G
 ClientSampleId :
 WC-1



Tgt Ion:	276	Resp:	103243
Ion Ratio	Lower	Upper	
276	100		
277	24.9	19.1	28.7
138	11.9	11.3	16.9

