

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG120925\
 Data File : BG064914.D
 Acq On : 9 Dec 2025 21:05
 Operator : RC/JU
 Sample : Q3790-01
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 304 FURMAN SOIL

Quant Time: Dec 10 00:16:59 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG111225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 12 17:10:56 2025
 Response via : Initial Calibration

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

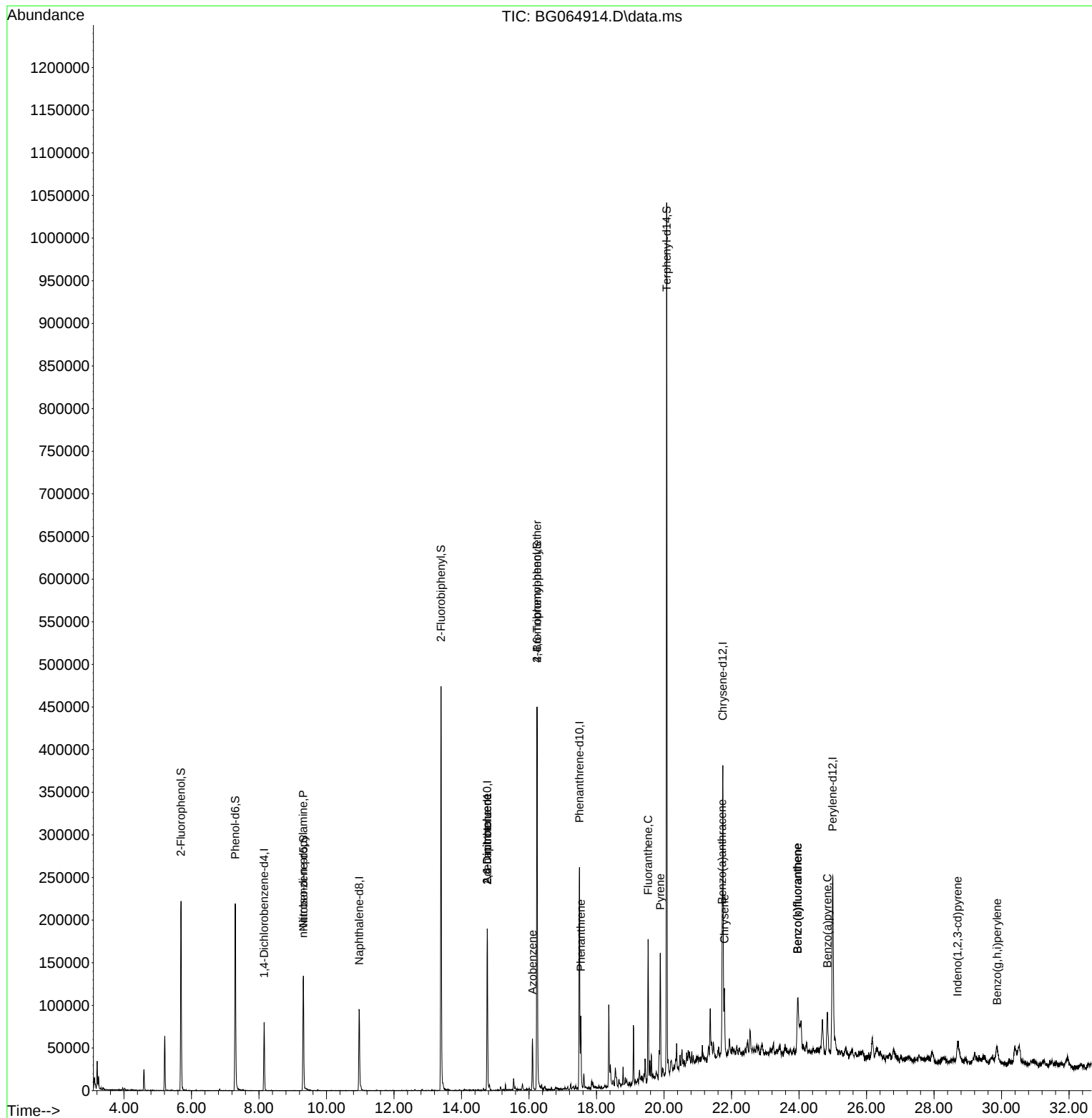
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.153	152	22406	20.000	ng	-0.01
21) Naphthalene-d8	10.967	136	90673	20.000	ng	#-0.02
39) Acenaphthene-d10	14.762	164	79761	20.000	ng	-0.01
64) Phenanthrene-d10	17.495	188	185242	20.000	ng	# 0.00
76) Chrysene-d12	21.742	240	225431	20.000	ng	#-0.01
86) Perylene-d12	24.997	264	259751	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.691	112	91395	71.229	ng	0.00
7) Phenol-d6	7.295	99	121147	70.987	ng	-0.01
23) Nitrobenzene-d5	9.316	82	78672	42.899	ng	-0.01
42) 2,4,6-Tribromophenol	16.237	330	123582	79.444	ng	-0.01
45) 2-Fluorobiphenyl	13.393	172	272815	47.726	ng	-0.01
79) Terphenyl-d14	20.080	244	561312	48.980	ng	-0.01
Target Compounds						
						Qvalue
19) n-Nitroso-di-n-propyla...	9.310	70	11356	9.841	ng	# 67
51) 2,6-Dinitrotoluene	14.762	165	9964	8.218	ng	# 21
57) 2,4-Dinitrotoluene	14.762	165	9964	5.482	ng	# 24
63) Azobenzene	16.102	77	16736	3.334	ng	# 1
67) 4-Bromophenyl-phenylether	16.237	248	7329	3.013	ng	# 1
71) Phenanthrene	17.536	178	58687	5.790	ng	99
75) Fluoranthene	19.527	202	115067	8.302	ng	97
78) Pyrene	19.886	202	108627	8.598	ng	99
81) Benzo(a)anthracene	21.719	228	67557	4.407	ng	99
83) Chrysene	21.789	228	61131	4.230	ng	96
87) Indeno(1,2,3-cd)pyrene	28.699	276	46109	2.584	ng	# 97
88) Benzo(b)fluoranthene	23.958	252	97334	5.888	ng	# 98
89) Benzo(k)fluoranthene	23.958	252	97334	5.861	ng	# 98
90) Benzo(a)pyrene	24.839	252	63633	4.150	ng	95
92) Benzo(g,h,i)perylene	29.868	276	49245	3.500	ng	95

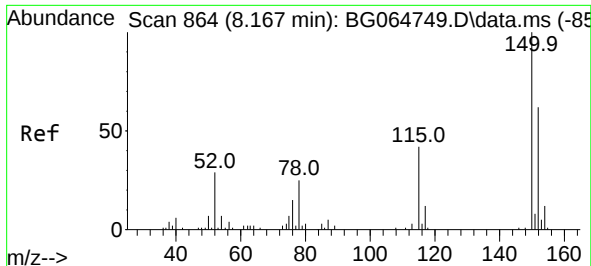
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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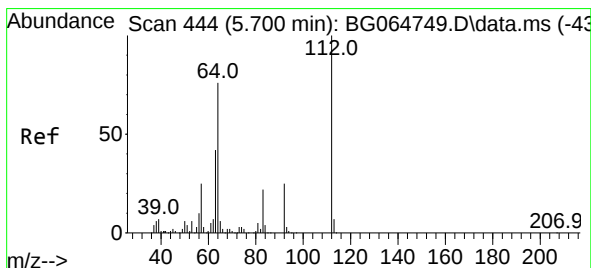
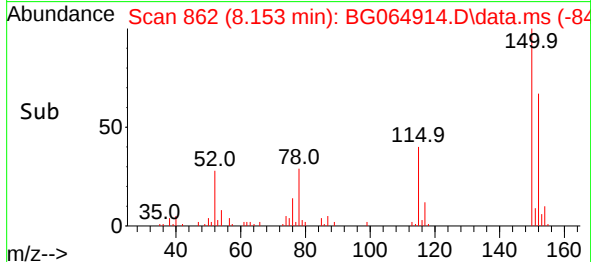
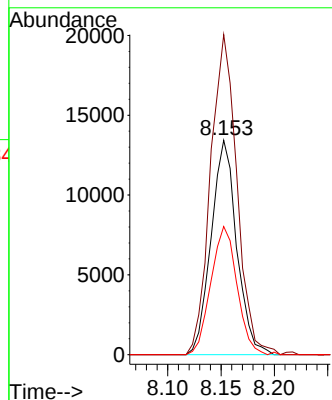
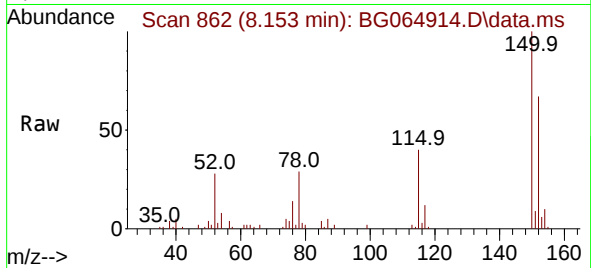




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 8.153 min Scan# 80
 Delta R.T. -0.014 min
 Lab File: BG064914.D
 Acq: 9 Dec 2025 21:05

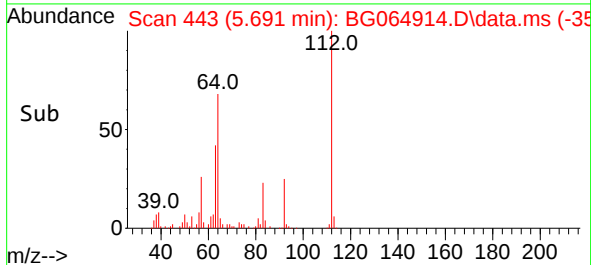
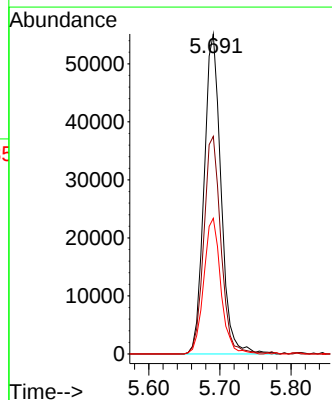
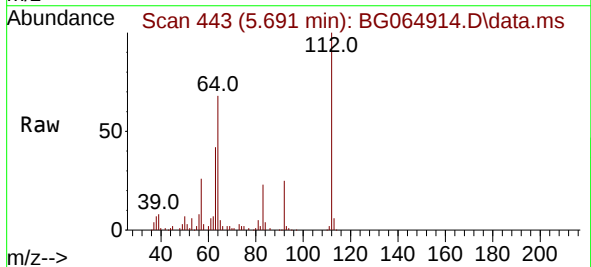
Instrument :
 BNA_G
 ClientSampleId :
 304 FURMAN SOIL

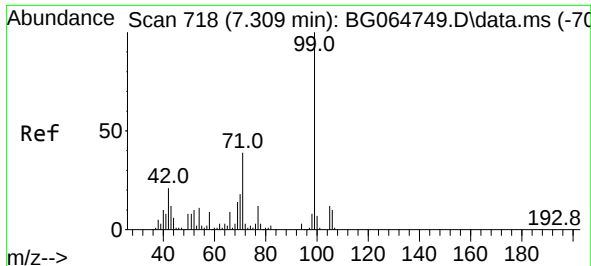
Tgt Ion:152 Resp: 22406
 Ion Ratio Lower Upper
 152 100
 150 149.2 129.2 193.8
 115 59.7 53.7 80.5



#5
 2-Fluorophenol
 Concen: 71.229 ng
 RT: 5.691 min Scan# 443
 Delta R.T. -0.009 min
 Lab File: BG064914.D
 Acq: 9 Dec 2025 21:05

Tgt Ion:112 Resp: 91395
 Ion Ratio Lower Upper
 112 100
 64 68.0 61.0 91.4
 63 42.4 33.3 49.9

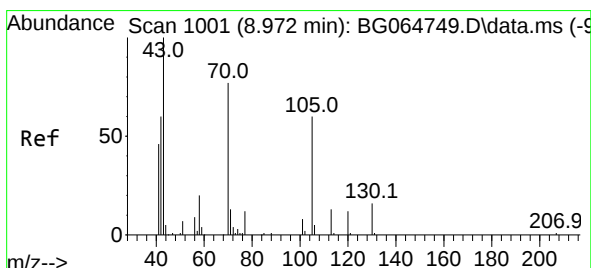
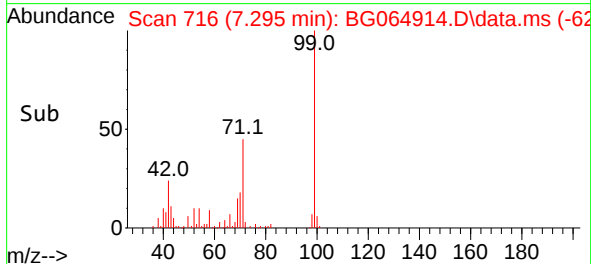
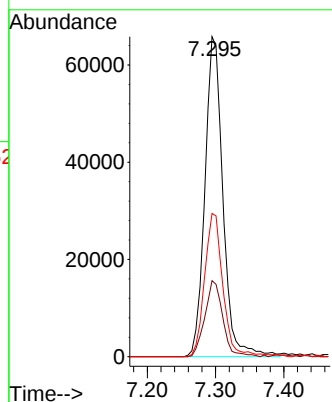
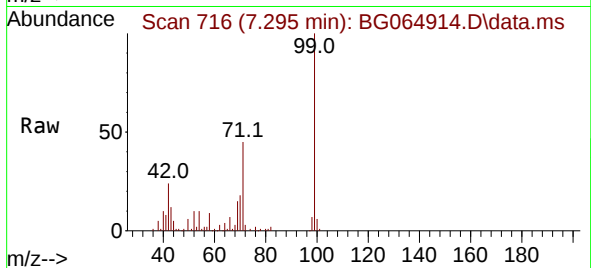




#7
Phenol-d6
Concen: 70.987 ng
RT: 7.295 min Scan# 716
Delta R.T. -0.015 min
Lab File: BG064914.D
Acq: 9 Dec 2025 21:05

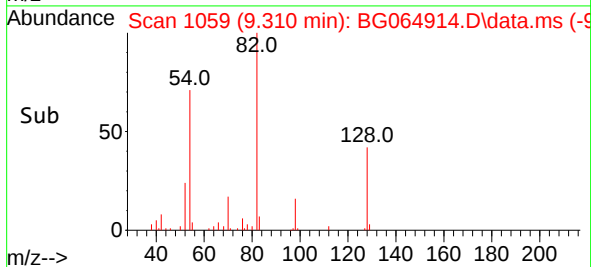
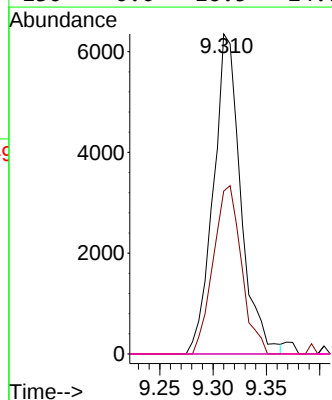
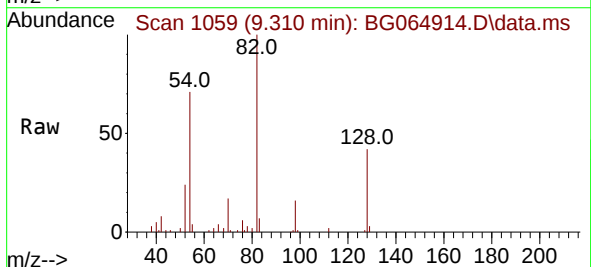
Instrument :
BNA_G
ClientSampleId :
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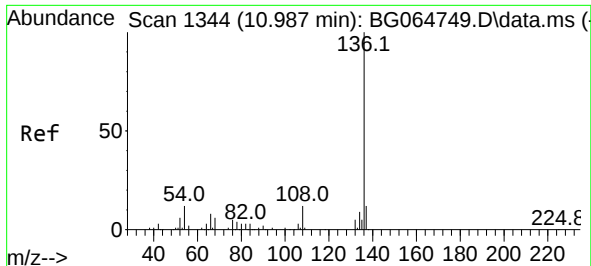
Tgt Ion: 99 Resp: 121147
Ion Ratio Lower Upper
99 100
42 23.8 16.8 25.2
71 44.7 31.1 46.7



#19
n-Nitroso-di-n-propylamine
Concen: 9.841 ng
RT: 9.310 min Scan# 1059
Delta R.T. 0.338 min
Lab File: BG064914.D
Acq: 9 Dec 2025 21:05

Tgt Ion: 70 Resp: 11356
Ion Ratio Lower Upper
70 100
42 50.9 62.6 93.8#
101 0.0 8.0 12.0#
130 0.0 16.5 24.7#

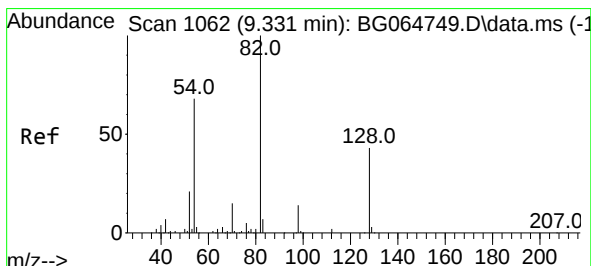
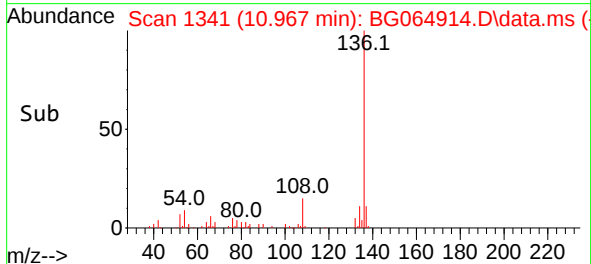
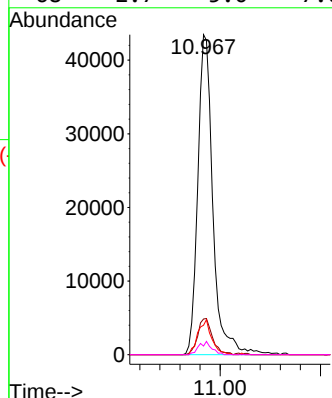
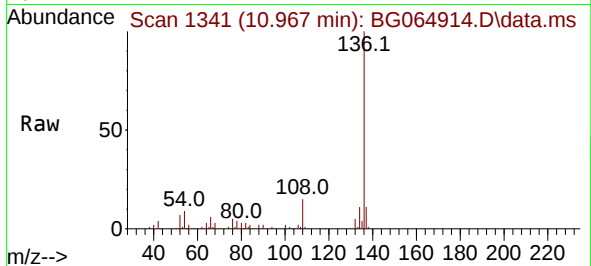




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.967 min Scan# 11
Delta R.T. -0.020 min
Lab File: BG064914.D
Acq: 9 Dec 2025 21:05

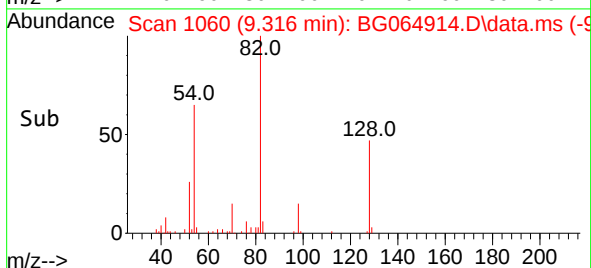
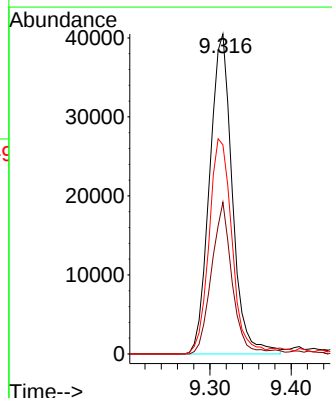
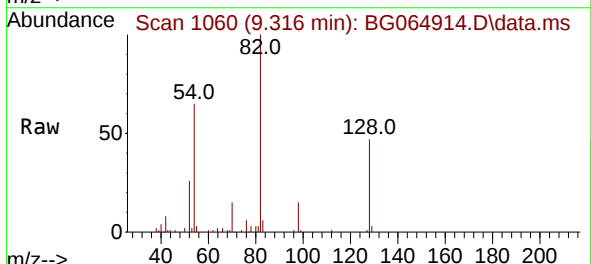
Instrument :
BNA_G
ClientSampleId :
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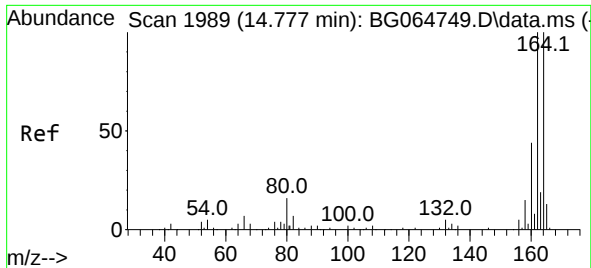
Tgt Ion:	136	Resp:	90673
Ion Ratio	Lower	Upper	
136	100		
137	11.2	9.3	13.9
54	9.2	9.3	13.9#
68	2.7	5.0	7.6#



#23
Nitrobenzene-d5
Concen: 42.899 ng
RT: 9.316 min Scan# 1060
Delta R.T. -0.015 min
Lab File: BG064914.D
Acq: 9 Dec 2025 21:05

Tgt Ion:	82	Resp:	78672
Ion Ratio	Lower	Upper	
82	100		
128	47.4	34.1	51.1
54	65.3	54.3	81.5

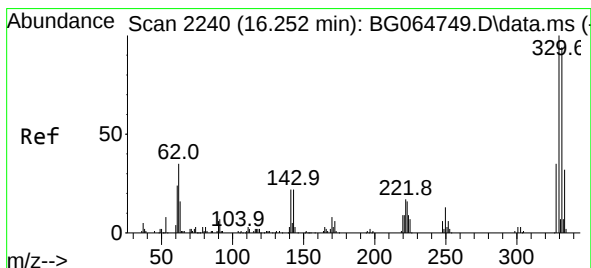
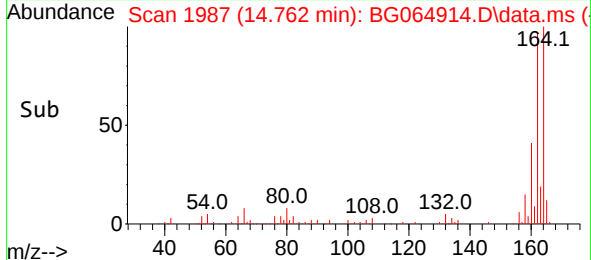
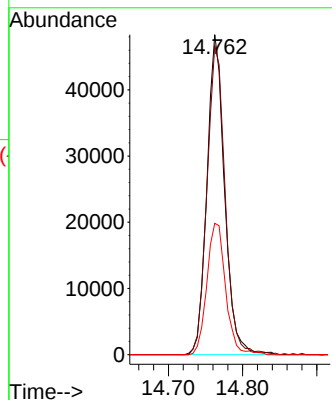
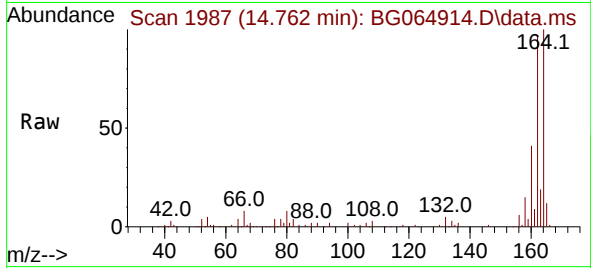




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.762 min Scan# 1987
Delta R.T. -0.015 min
Lab File: BG064914.D
Acq: 9 Dec 2025 21:05

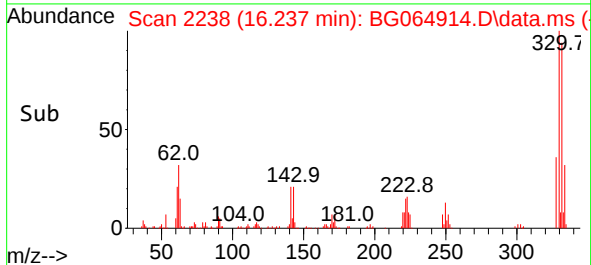
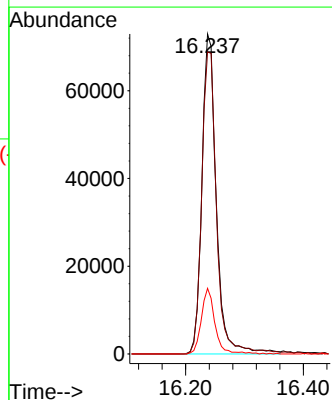
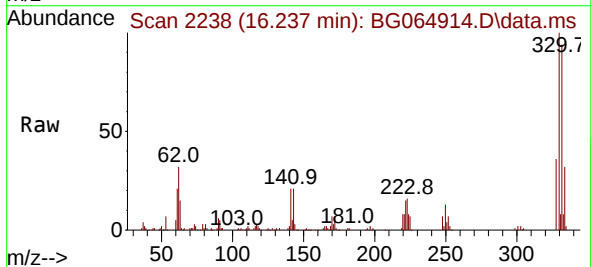
Instrument :
BNA_G
ClientSampleId :
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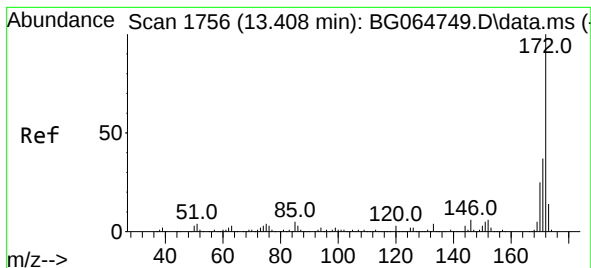
Tgt Ion:164 Resp: 79761
Ion Ratio Lower Upper
164 100
162 96.5 79.8 119.6
160 41.0 34.9 52.3



#42
2,4,6-Tribromophenol
Concen: 79.444 ng
RT: 16.237 min Scan# 2238
Delta R.T. -0.015 min
Lab File: BG064914.D
Acq: 9 Dec 2025 21:05

Tgt Ion:330 Resp: 123582
Ion Ratio Lower Upper
330 100
332 95.9 77.0 115.6
141 19.4 18.2 27.2

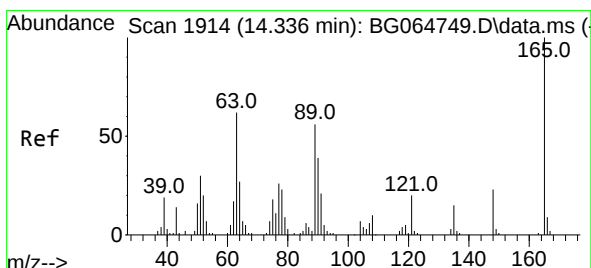
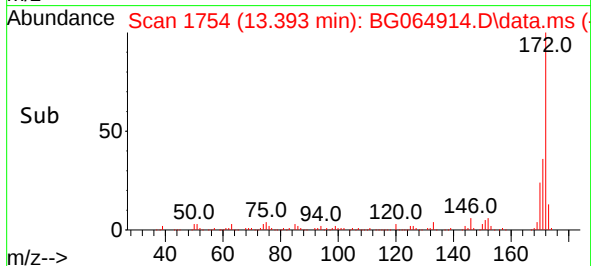
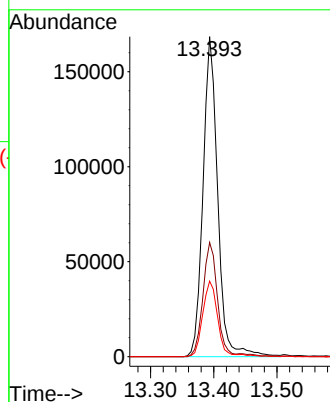
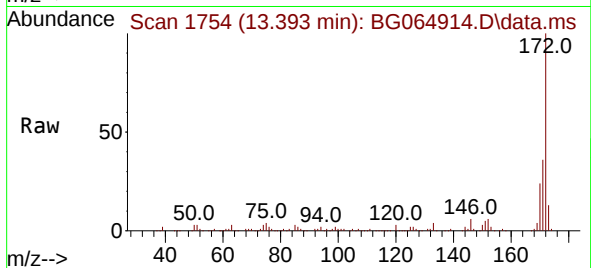




#45
2-Fluorobiphenyl
Concen: 47.726 ng
RT: 13.393 min Scan# 11
Delta R.T. -0.015 min
Lab File: BG064914.D
Acq: 9 Dec 2025 21:05

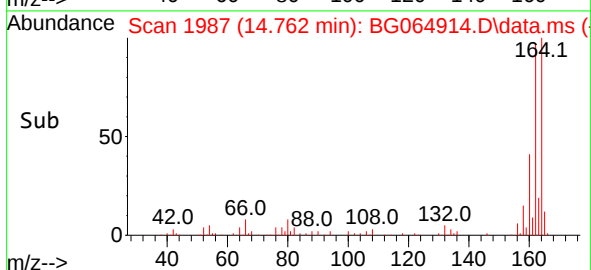
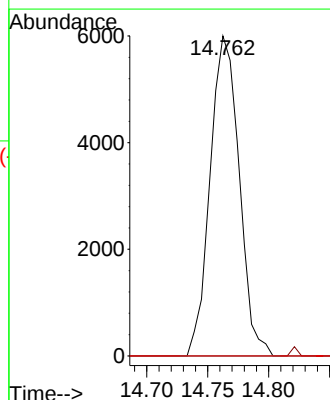
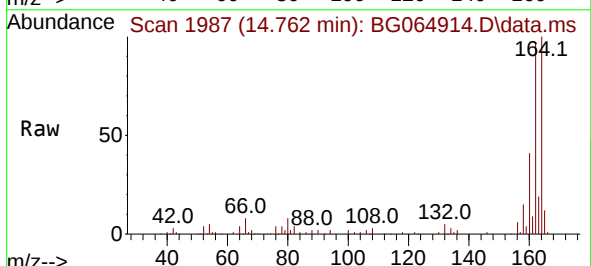
Instrument :
BNA_G
ClientSampleId :
304 FURMAN SOIL

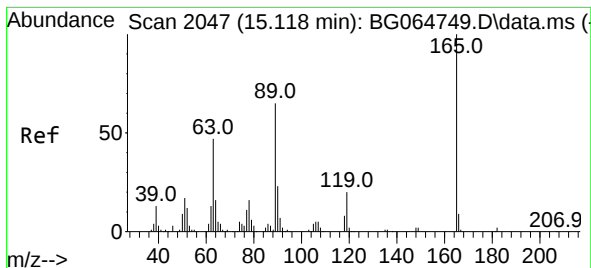
Tgt Ion:172 Resp: 272815
Ion Ratio Lower Upper
172 100
171 35.7 29.9 44.9
170 23.6 19.8 29.6



#51
2,6-Dinitrotoluene
Concen: 8.218 ng
RT: 14.762 min Scan# 1987
Delta R.T. 0.426 min
Lab File: BG064914.D
Acq: 9 Dec 2025 21:05

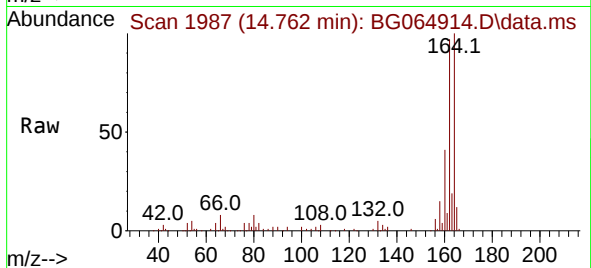
Tgt Ion:165 Resp: 9964
Ion Ratio Lower Upper
165 100
63 0.0 49.8 74.8#
89 0.0 45.0 67.4#



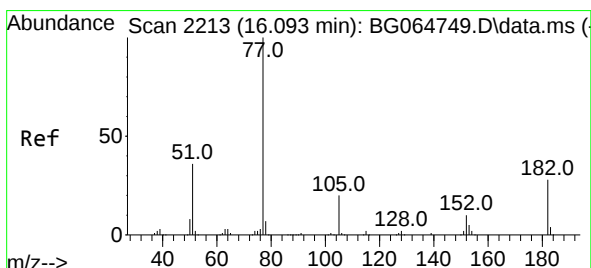
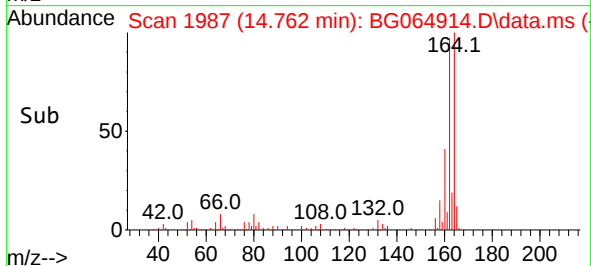
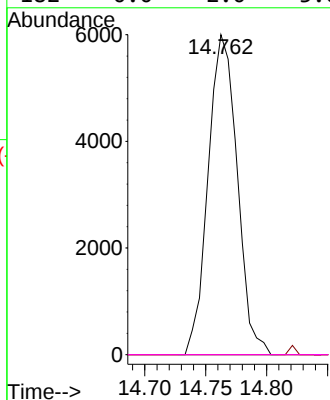


#57
2,4-Dinitrotoluene
Concen: 5.482 ng
RT: 14.762 min Scan# 1987
Delta R.T. -0.355 min
Lab File: BG064914.D
Acq: 9 Dec 2025 21:05

Instrument :
BNA_G
ClientSampleId :
304 FURMAN SOIL

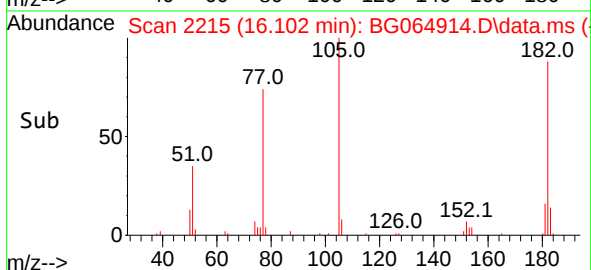
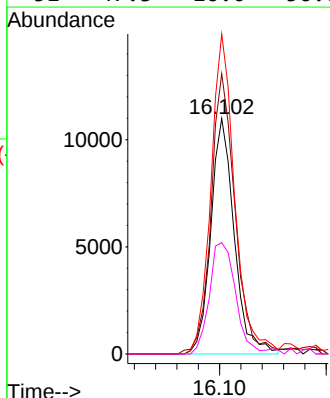
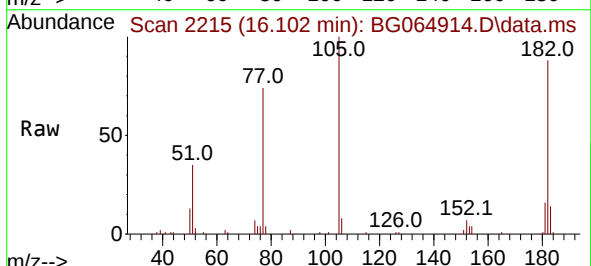


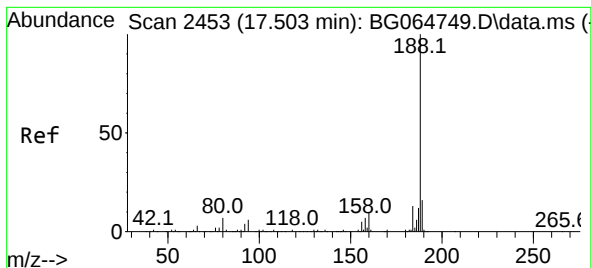
Tgt Ion:165 Resp: 9964
Ion Ratio Lower Upper
165 100
63 0.0 37.8 56.6#
89 0.0 51.6 77.4#
182 0.0 2.0 3.0#



#63
Azobenzene
Concen: 3.334 ng
RT: 16.102 min Scan# 2215
Delta R.T. 0.009 min
Lab File: BG064914.D
Acq: 9 Dec 2025 21:05

Tgt Ion: 77 Resp: 16736
Ion Ratio Lower Upper
77 100
182 119.0 8.1 48.1#
105 135.9 0.1 40.1#
51 47.3 16.0 56.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.495 min Scan# 24

Delta R.T. -0.009 min

Lab File: BG064914.D

Acq: 9 Dec 2025 21:05

Instrument :

BNA_G

ClientSampleId :

304 FURMAN SOIL

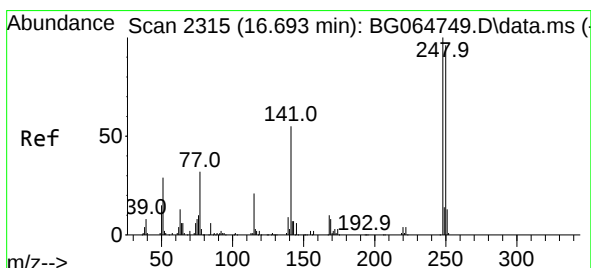
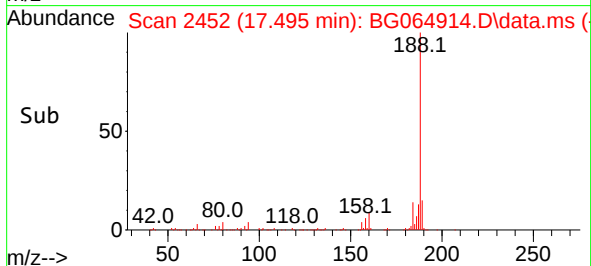
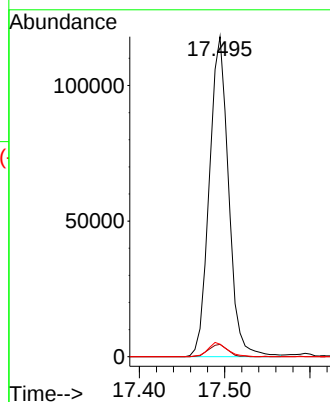
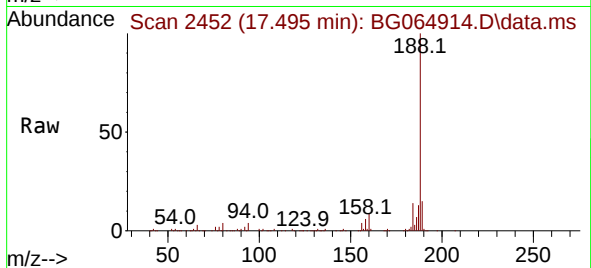
Tgt Ion:188 Resp: 185242

Ion Ratio Lower Upper

188 100

94 3.9 4.7 7.1#

80 3.9 5.4 8.2#



#67

4-Bromophenyl-phenylether

Concen: 3.013 ng

RT: 16.237 min Scan# 2238

Delta R.T. -0.455 min

Lab File: BG064914.D

Acq: 9 Dec 2025 21:05

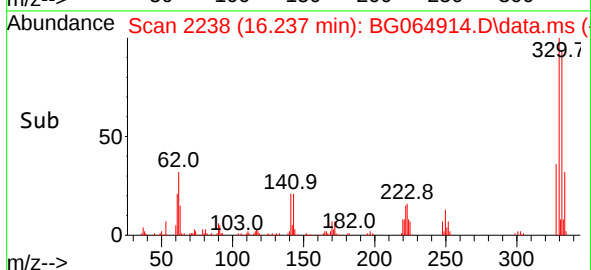
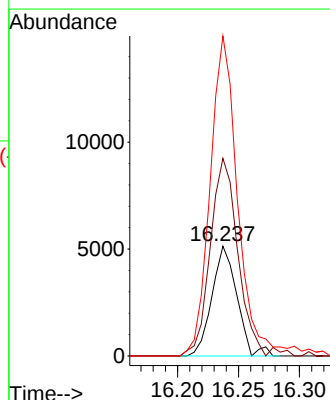
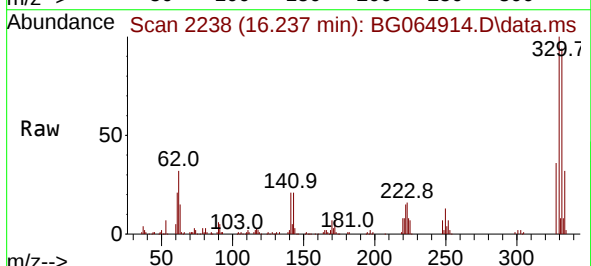
Tgt Ion:248 Resp: 7329

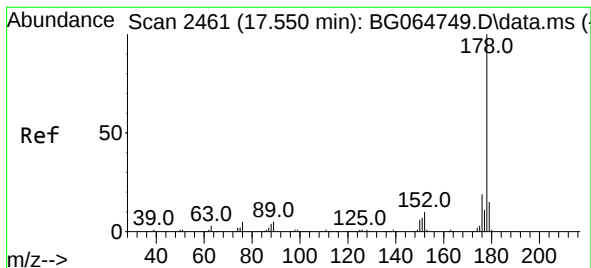
Ion Ratio Lower Upper

248 100

250 187.6 77.0 115.6#

141 235.6 43.7 65.5#





#71

Phenanthrene

Concen: 5.790 ng

RT: 17.536 min Scan# 2461

Delta R.T. -0.015 min

Lab File: BG064914.D

Acq: 9 Dec 2025 21:05

Instrument :

BNA_G

ClientSampleId :

304 FURMAN SOIL

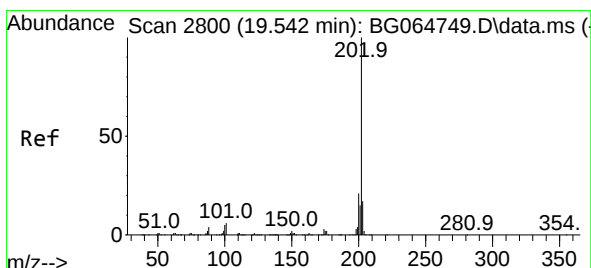
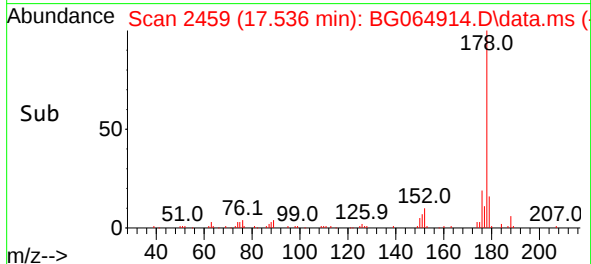
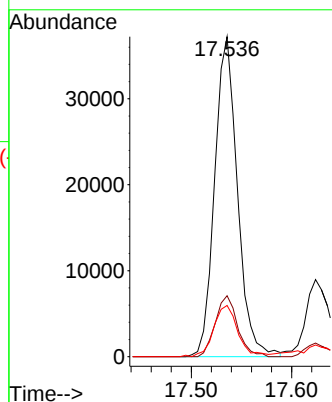
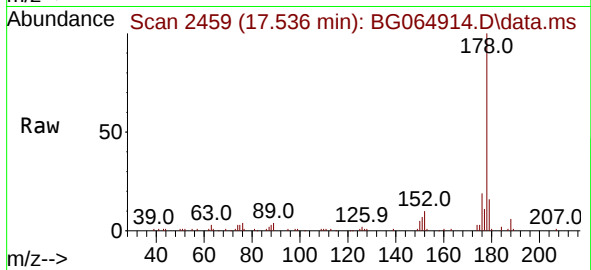
Tgt Ion:178 Resp: 58687

Ion Ratio Lower Upper

178 100

176 19.1 14.8 22.2

179 16.0 12.2 18.4



#75

Fluoranthene

Concen: 8.302 ng

RT: 19.527 min Scan# 2798

Delta R.T. -0.015 min

Lab File: BG064914.D

Acq: 9 Dec 2025 21:05

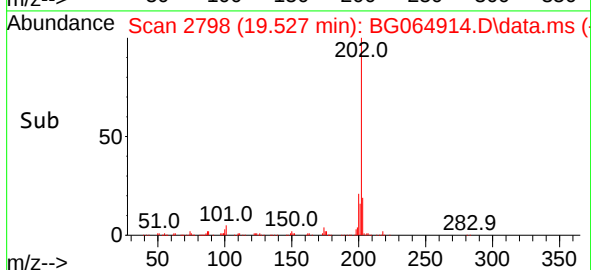
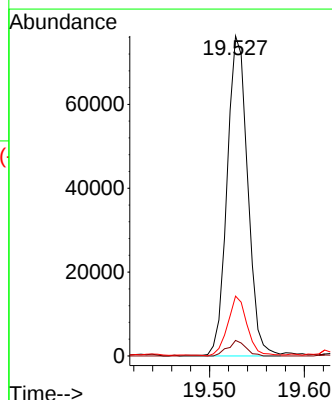
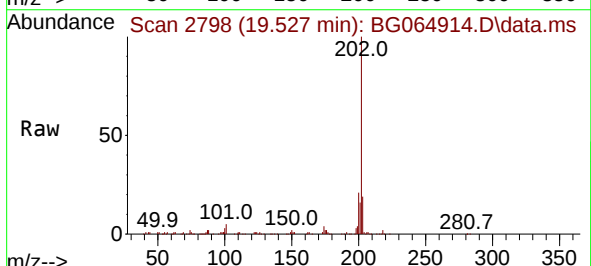
Tgt Ion:202 Resp: 115067

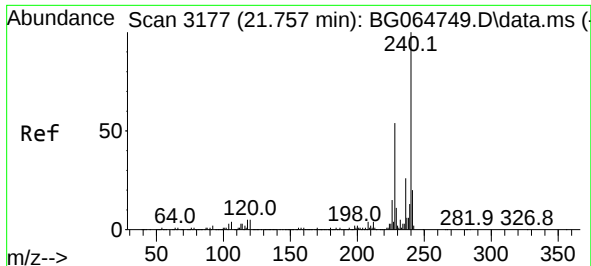
Ion Ratio Lower Upper

202 100

101 4.9 0.0 26.4

203 18.7 0.0 37.5

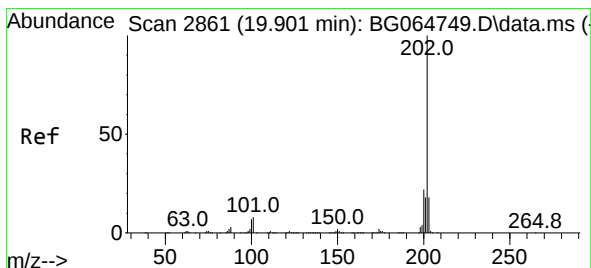
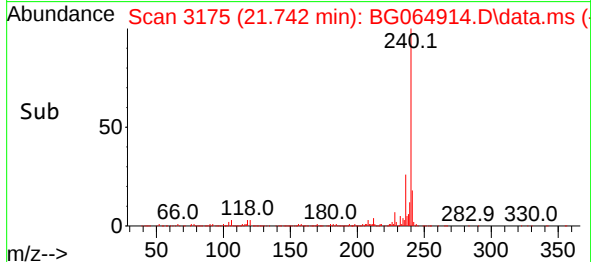
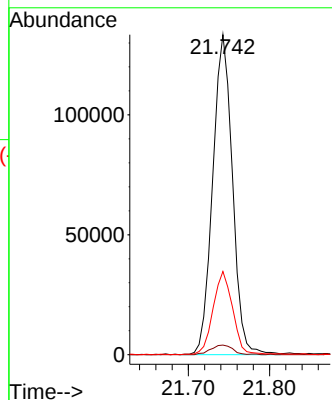
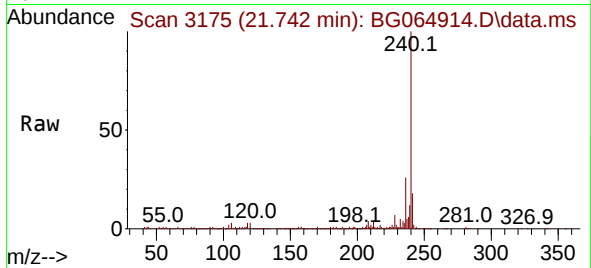




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.742 min Scan# 3175
Delta R.T. -0.015 min
Lab File: BG064914.D
Acq: 9 Dec 2025 21:05

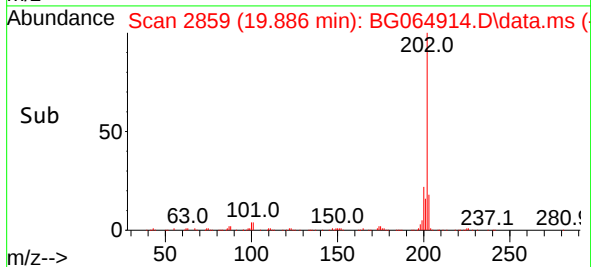
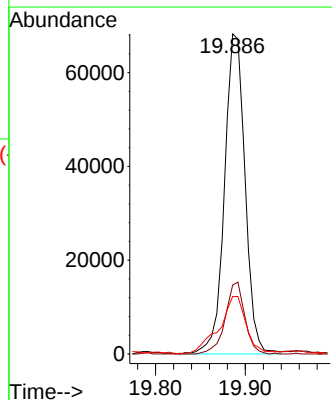
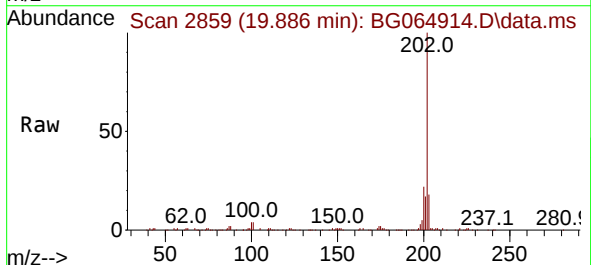
Instrument :
BNA_G
ClientSampleId :
304 FURMAN SOIL

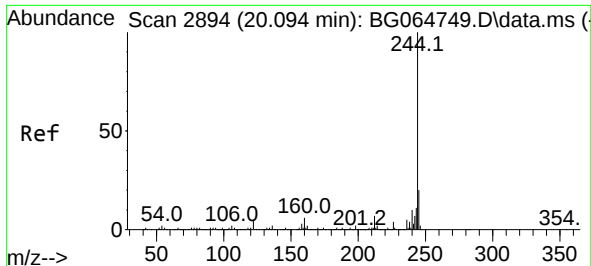
Tgt Ion:240 Resp: 225431
Ion Ratio Lower Upper
240 100
120 3.0 4.2 6.4#
236 26.0 20.8 31.2



#78
Pyrene
Concen: 8.598 ng
RT: 19.886 min Scan# 2859
Delta R.T. -0.015 min
Lab File: BG064914.D
Acq: 9 Dec 2025 21:05

Tgt Ion:202 Resp: 108627
Ion Ratio Lower Upper
202 100
200 21.6 17.9 26.9
203 18.0 14.0 21.0

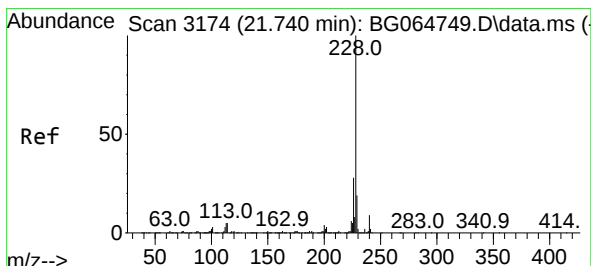
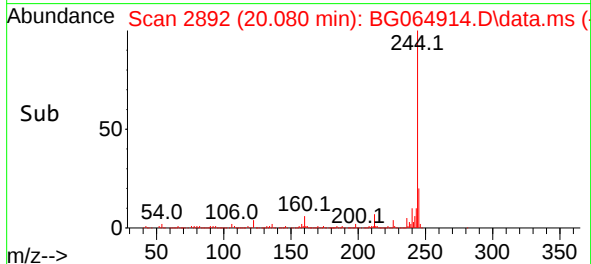
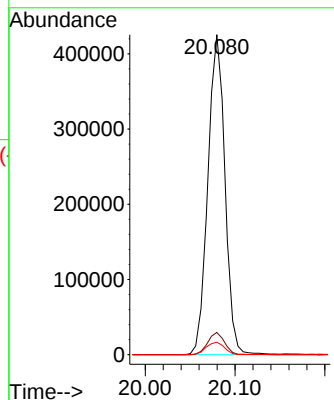
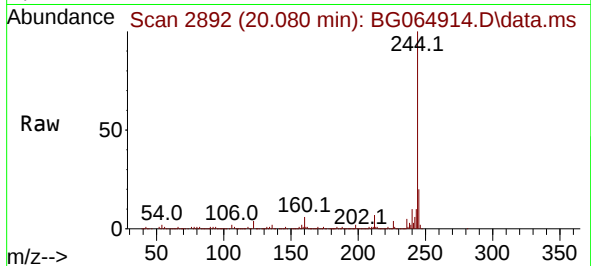




#79
 Terphenyl-d14
 Concen: 48.980 ng
 RT: 20.080 min Scan# 21
 Delta R.T. -0.015 min
 Lab File: BG064914.D
 Acq: 9 Dec 2025 21:05

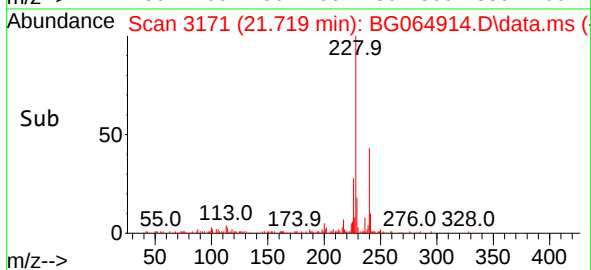
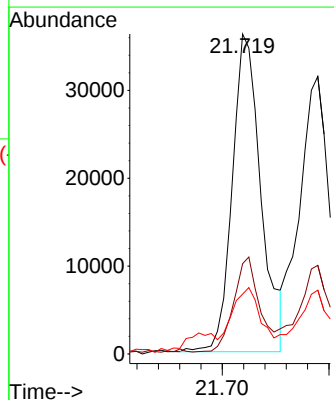
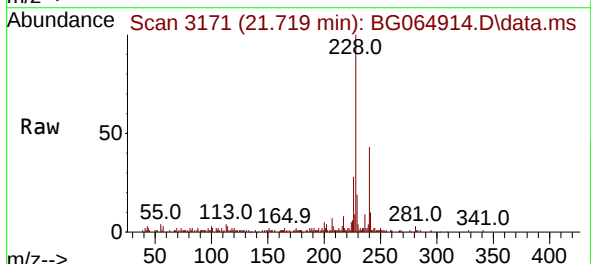
Instrument :
 BNA_G
 ClientSampleId :
 304 FURMAN SOIL

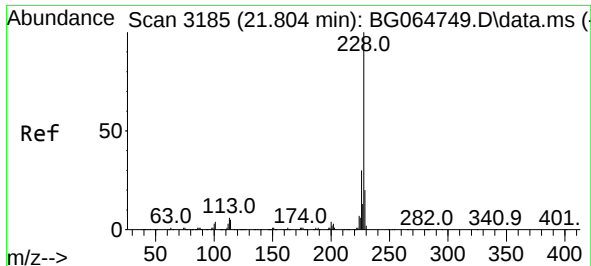
Tgt Ion:244 Resp: 561312
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.8 8.6
 122 3.9 4.3 6.5#



#81
 Benzo(a)anthracene
 Concen: 4.407 ng
 RT: 21.719 min Scan# 3171
 Delta R.T. -0.021 min
 Lab File: BG064914.D
 Acq: 9 Dec 2025 21:05

Tgt Ion:228 Resp: 67557
 Ion Ratio Lower Upper
 228 100
 226 28.2 22.1 33.1
 229 18.7 15.5 23.3

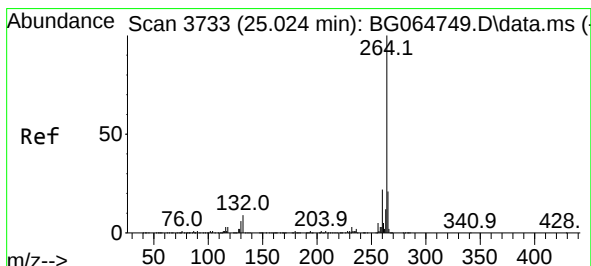
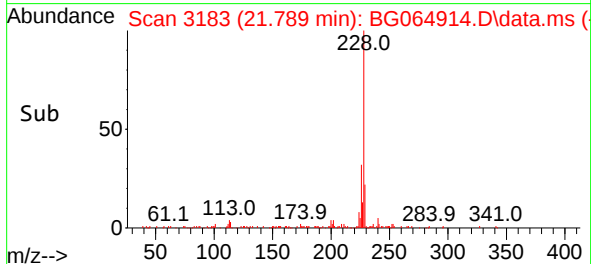
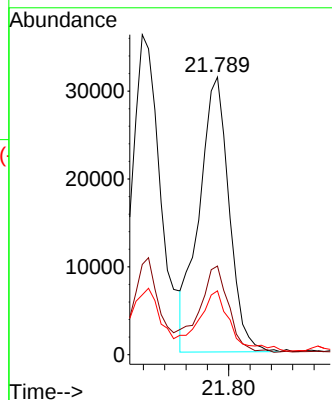
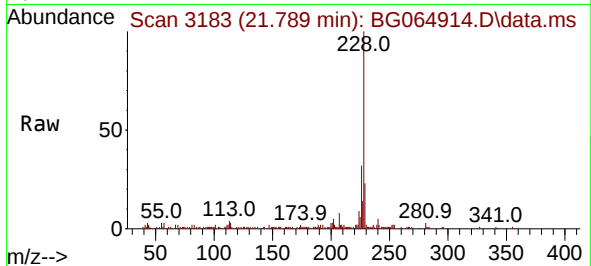




#83
Chrysene
Concen: 4.230 ng
RT: 21.789 min Scan# 3183
Delta R.T. -0.015 min
Lab File: BG064914.D
Acq: 9 Dec 2025 21:05

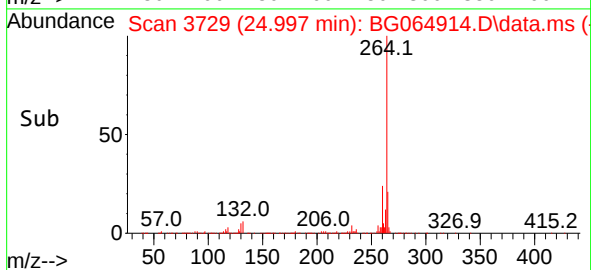
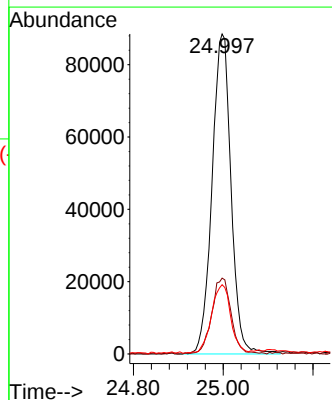
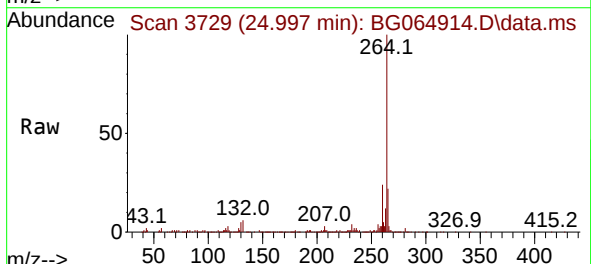
Instrument :
BNA_G
ClientSampleId :
304 FURMAN SOIL

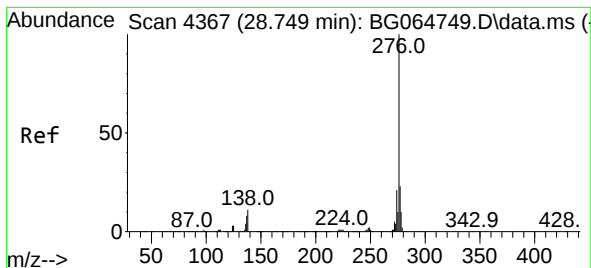
Tgt Ion:228 Resp: 61131
Ion Ratio Lower Upper
228 100
226 31.9 24.2 36.2
229 23.0 16.0 24.0



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.997 min Scan# 3729
Delta R.T. -0.026 min
Lab File: BG064914.D
Acq: 9 Dec 2025 21:05

Tgt Ion:264 Resp: 259751
Ion Ratio Lower Upper
264 100
260 23.7 17.2 25.8
265 21.7 16.6 25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 2.584 ng

RT: 28.699 min Scan# 41

Delta R.T. -0.050 min

Lab File: BG064914.D

Acq: 9 Dec 2025 21:05

Instrument :

BNA_G

ClientSampleId :

304 FURMAN SOIL

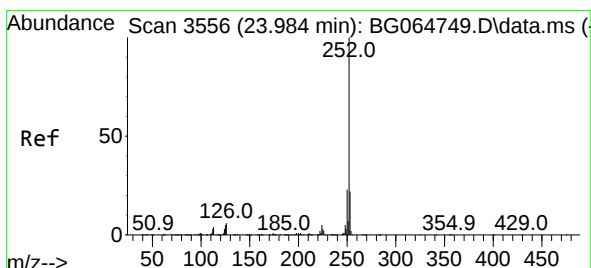
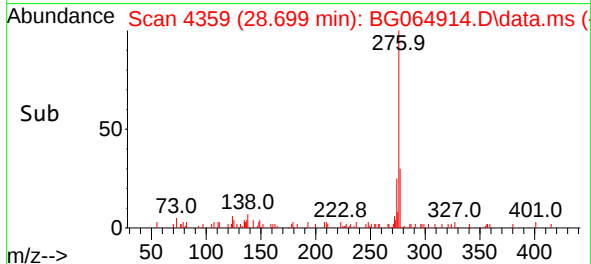
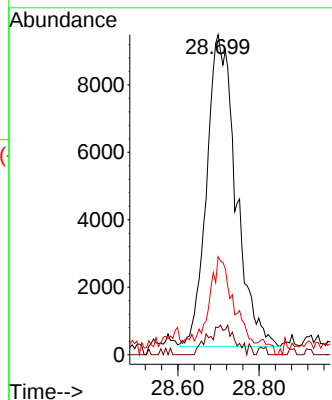
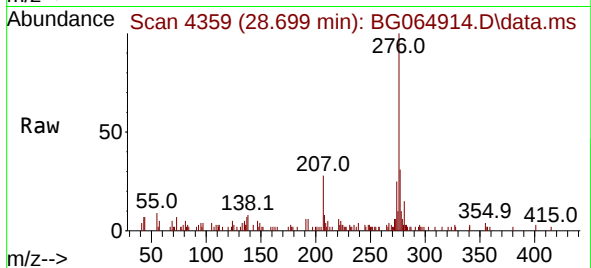
Tgt Ion:276 Resp: 46109

Ion Ratio Lower Upper

276 100

138 8.3 4.5 6.7#

277 24.3 20.0 30.0



#88

Benzo(b)fluoranthene

Concen: 5.888 ng

RT: 23.958 min Scan# 3552

Delta R.T. -0.026 min

Lab File: BG064914.D

Acq: 9 Dec 2025 21:05

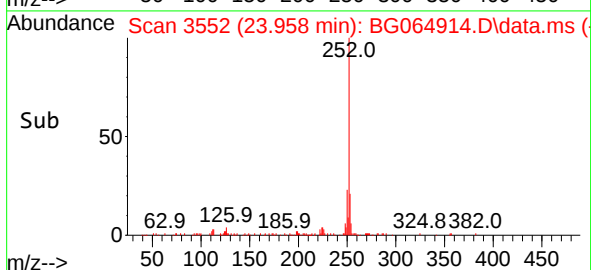
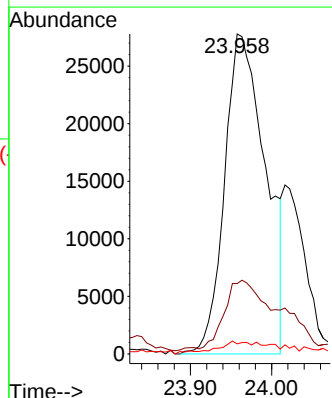
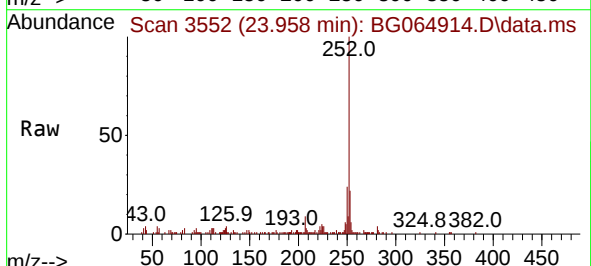
Tgt Ion:252 Resp: 97334

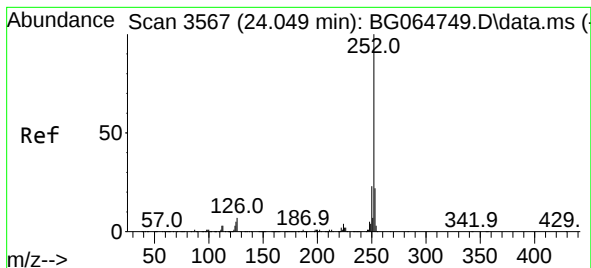
Ion Ratio Lower Upper

252 100

253 22.0 17.4 26.2

125 3.1 4.2 6.2#





#89

Benzo(k)fluoranthene

Concen: 5.861 ng

RT: 23.958 min Scan# 31

Delta R.T. -0.091 min

Lab File: BG064914.D

Acq: 9 Dec 2025 21:05

Instrument :

BNA_G

ClientSampleId :

304 FURMAN SOIL

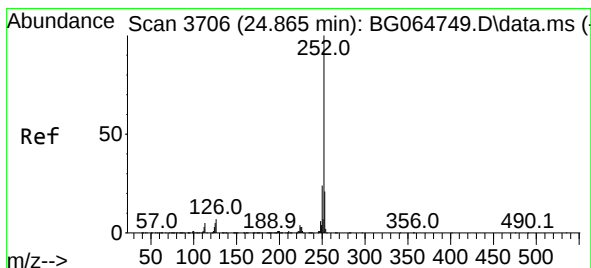
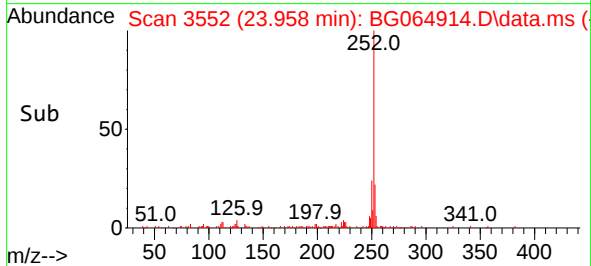
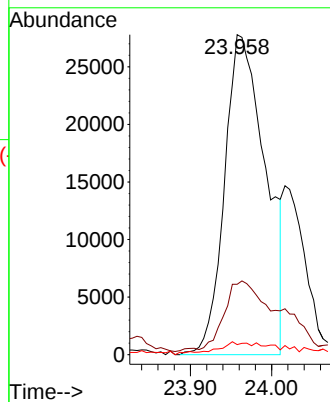
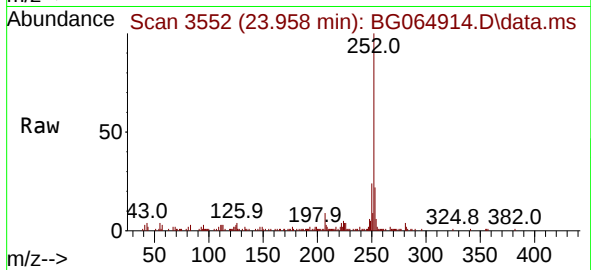
Tgt Ion:252 Resp: 97334

Ion Ratio Lower Upper

252 100

253 22.0 17.8 26.8

125 3.1 4.1 6.1#



#90

Benzo(a)pyrene

Concen: 4.150 ng

RT: 24.839 min Scan# 3702

Delta R.T. -0.026 min

Lab File: BG064914.D

Acq: 9 Dec 2025 21:05

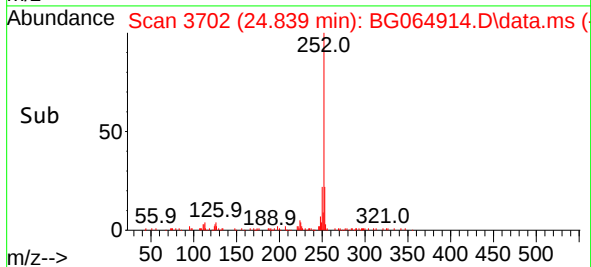
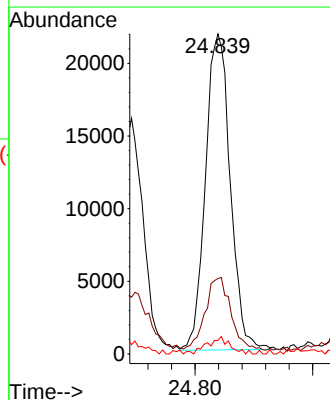
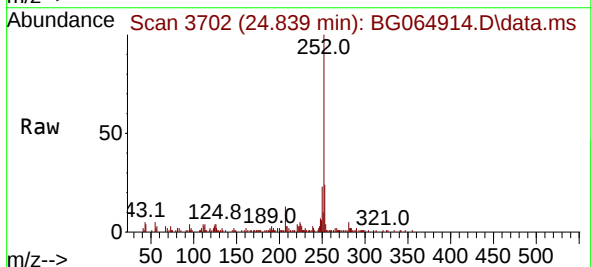
Tgt Ion:252 Resp: 63633

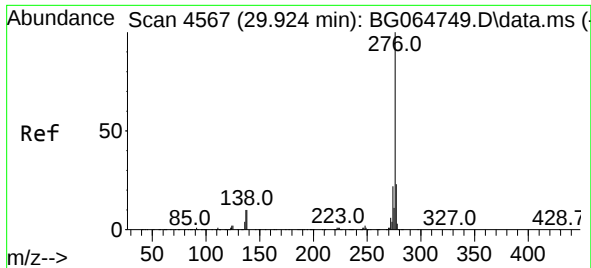
Ion Ratio Lower Upper

252 100

253 23.6 16.9 25.3

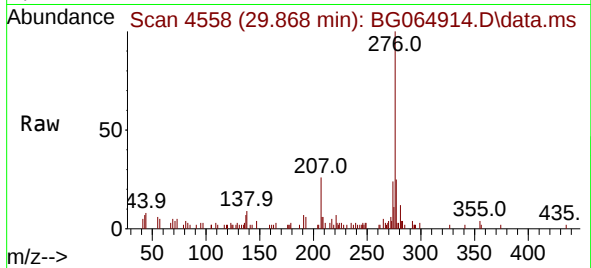
125 4.3 4.2 6.4





#92
 Benzo(g,h,i)perylene
 Concen: 3.500 ng
 RT: 29.868 min Scan# 41
 Delta R.T. -0.056 min
 Lab File: BG064914.D
 Acq: 9 Dec 2025 21:05

Instrument :
 BNA_G
 ClientSampleId :
 304 FURMAN SOIL



Tgt Ion:	276	Resp:	49245
Ion Ratio	Lower	Upper	
276	100		
277	25.1	18.0	27.0
138	8.5	8.2	12.2

