

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG051223\
 Data File : BG057409.D
 Acq On : 12 May 2023 14:41
 Operator : CG/JU
 Sample : 02724-01
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 TOPSOIL-OU3-GRILLO-1

Quant Time: May 12 22:20:46 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG042723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 12 22:04:03 2023
 Response via : Initial Calibration

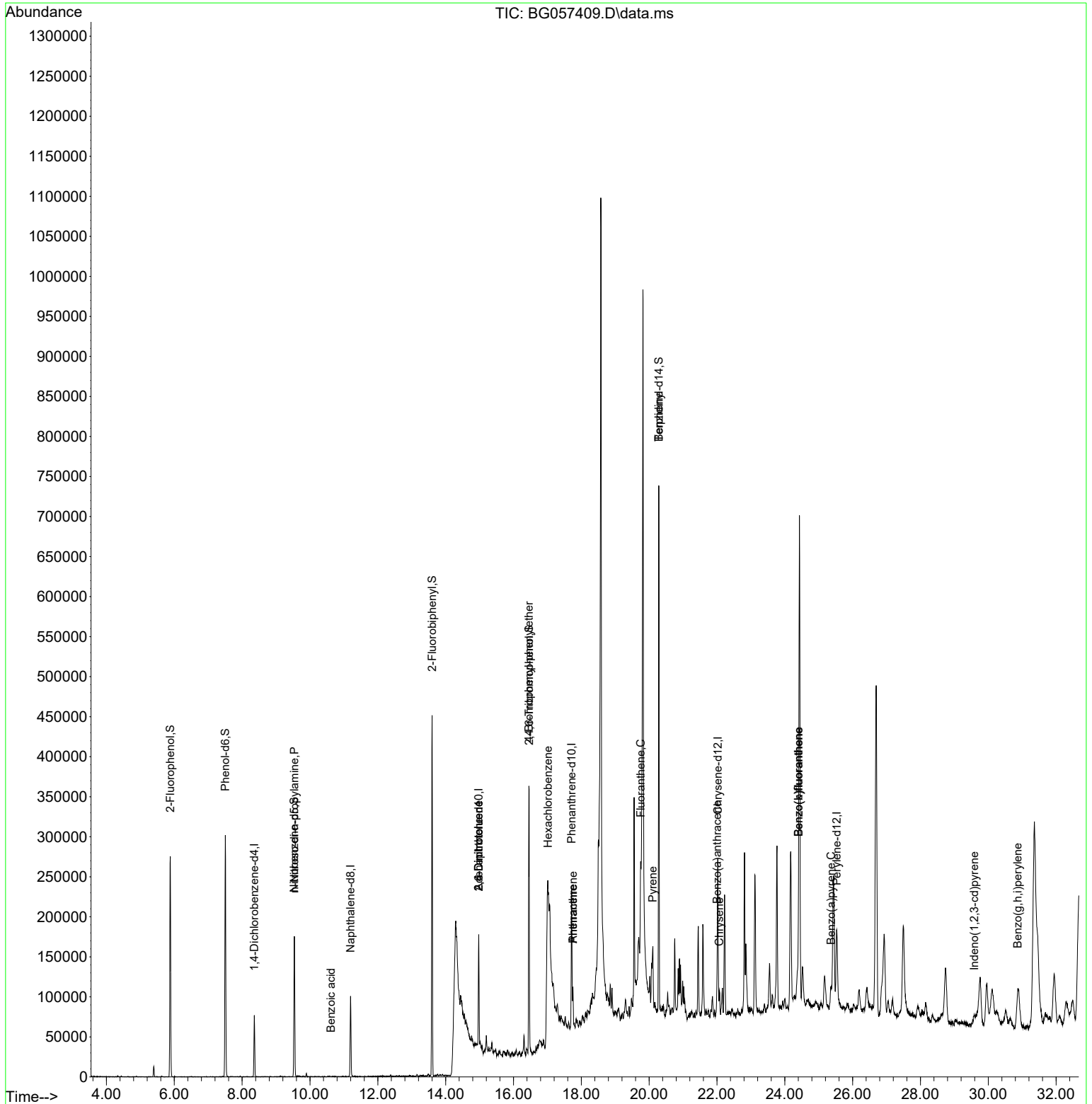
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.361	152	21213	20.000	ng	0.00
21) Naphthalene-d8	11.198	136	83100	20.000	ng	0.00
39) Acenaphthene-d10	14.976	164	49999	20.000	ng	0.00
64) Phenanthrene-d10	17.713	188	114425	20.000	ng	0.00
76) Chrysene-d12	22.025	240	113038	20.000	ng	0.00
86) Perylene-d12	25.532	264	121479	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.882	112	123029	99.210	ng	0.00
7) Phenol-d6	7.503	99	174790	92.820	ng	0.00
23) Nitrobenzene-d5	9.536	82	112624	56.882	ng	0.00
42) 2,4,6-Tribromophenol	16.462	330	70824	99.832	ng	0.00
45) 2-Fluorobiphenyl	13.601	172	235286	63.378	ng	0.00
79) Terphenyl-d14	20.286	244	323289	46.673	ng	0.00
Target Compounds						
9) Benzaldehyde	7.515	77	311	Below Cal	#	4
19) n-Nitroso-di-n-propyla...	9.542	70	16097	11.210	ng	# 84
32) Benzoic acid	10.617	122	61	4.788	ng	# 1
51) 2,6-Dinitrotoluene	14.976	165	6377	7.602	ng	# 17
57) 2,4-Dinitrotoluene	14.976	165	6377	5.319	ng	# 20
67) 4-Bromophenyl-phenylether	16.456	248	5259	3.765	ng	# 1
68) Hexachlorobenzene	17.020	284	9012	6.639	ng	# 42
71) Phenanthrene	17.754	178	14886	2.539	ng	94
72) Anthracene	17.754	178	14886	2.474	ng	95
75) Fluoranthene	19.752	202	45630	6.257	ng	97
77) Benzidine	20.286	184	5508	2.180	ng	# 62
78) Pyrene	20.110	202	41569	5.061	ng	100
81) Benzo(a)anthracene	22.007	228	24212	3.006	ng	96
83) Chrysene	22.072	228	25352	3.346	ng	95
87) Indeno(1,2,3-cd)pyrene	29.585	276	18267	2.063	ng	# 96
88) Benzo(b)fluoranthene	24.404	252	35889	4.519	ng	# 91
89) Benzo(k)fluoranthene	24.404	252	35889	4.448	ng	# 92
90) Benzo(a)pyrene	25.362	252	25609	3.301	ng	# 98
92) Benzo(g,h,i)perylene	30.866	276	18208	2.529	ng	# 95

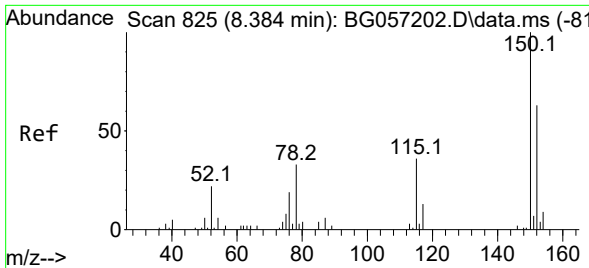
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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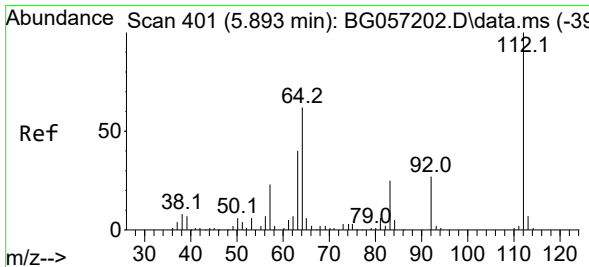
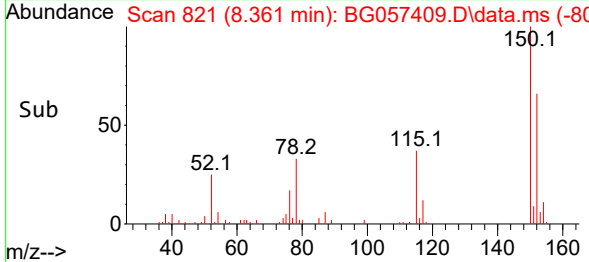
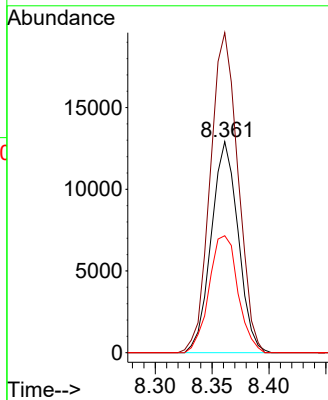
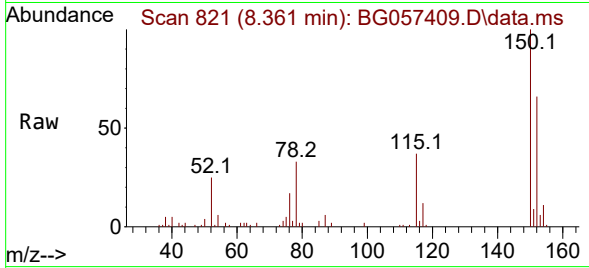


#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 8.361 min Scan# 81
 Delta R.T. -0.002 min
 Lab File: BG057409.D
 Acq: 12 May 2023 14:41

Instrument :
 BNA_G
 ClientSampleId :
 TOPSOIL-OU3-GRILLO-1

Tgt Ion:152 Resp: 21213

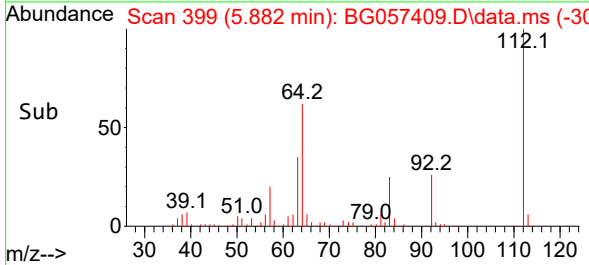
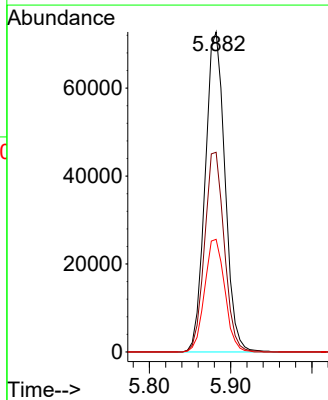
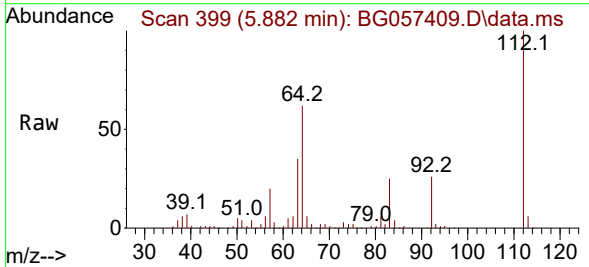
Ion	Ratio	Lower	Upper
152	100		
150	151.6	126.2	189.4
115	55.4	45.0	67.4

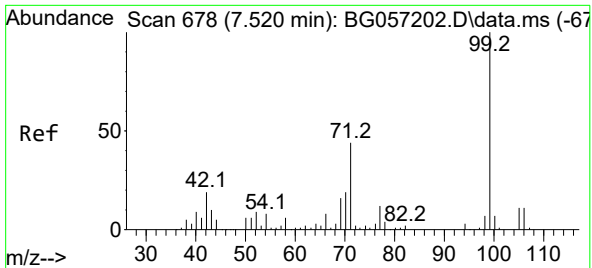


#5
 2-Fluorophenol
 Concen: 99.210 ng
 RT: 5.882 min Scan# 399
 Delta R.T. 0.003 min
 Lab File: BG057409.D
 Acq: 12 May 2023 14:41

Tgt Ion:112 Resp: 123029

Ion	Ratio	Lower	Upper
112	100		
64	62.4	49.4	74.2
63	35.2	31.6	47.4



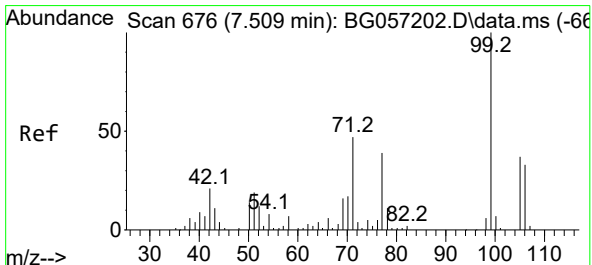
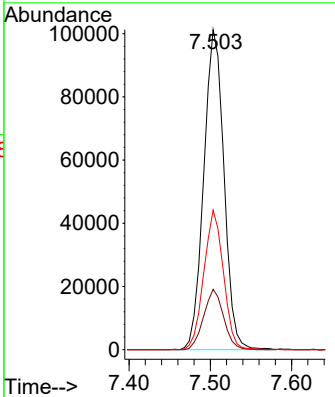
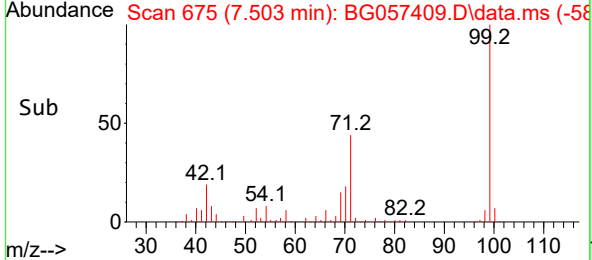
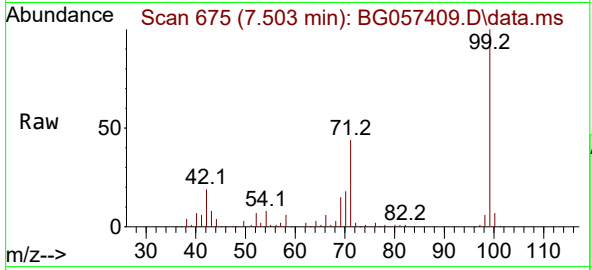


#7
Phenol-d6
Concen: 92.820 ng
RT: 7.503 min Scan# 61
Delta R.T. -0.002 min
Lab File: BG057409.D
Acq: 12 May 2023 14:41

Instrument :
BNA_G
ClientSampleId :
TOPSOIL-OU3-GRILLO-1

Tgt Ion: 99 Resp: 174790

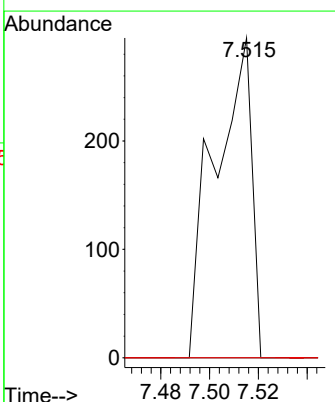
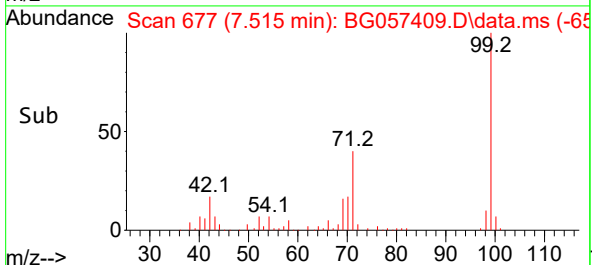
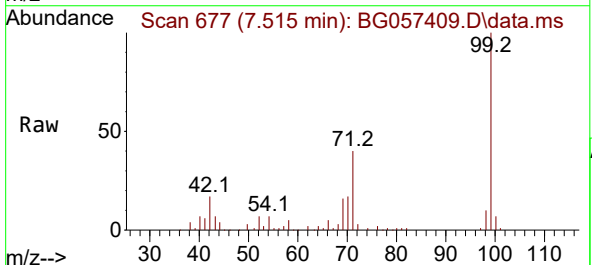
Ion	Ratio	Lower	Upper
99	100		
42	18.9	15.1	22.7
71	43.6	35.2	52.8

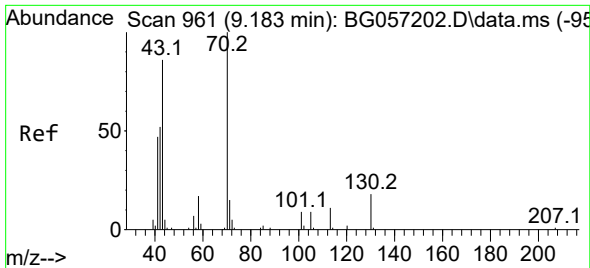


#9
Benzaldehyde
Concen: Below Cal
RT: 7.515 min Scan# 677
Delta R.T. 0.027 min
Lab File: BG057409.D
Acq: 12 May 2023 14:41

Tgt Ion: 77 Resp: 311

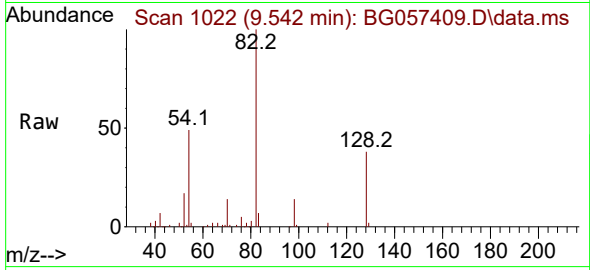
Ion	Ratio	Lower	Upper
77	100		
105	0.0	74.6	114.6#
106	0.0	66.3	106.3#



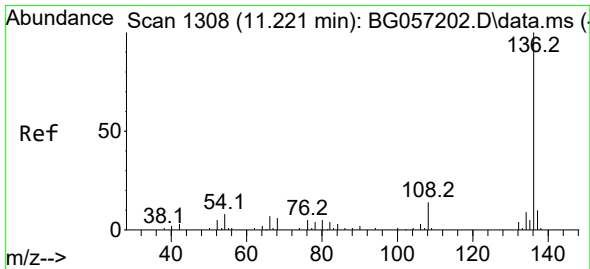
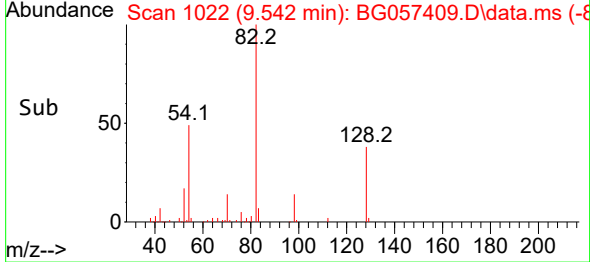
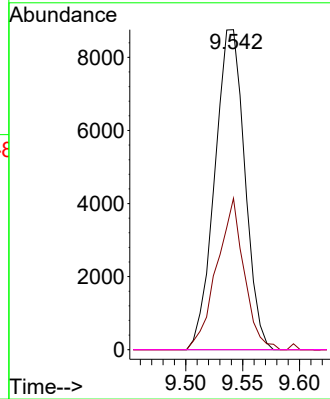


#19
 n-Nitroso-di-n-propylamine
 Concen: 11.210 ng
 RT: 9.542 min Scan# 10
 Delta R.T. 0.374 min
 Lab File: BG057409.D
 Acq: 12 May 2023 14:41

Instrument :
 BNA_G
 ClientSampleId :
 TOPSOIL-OU3-GRILLO-1

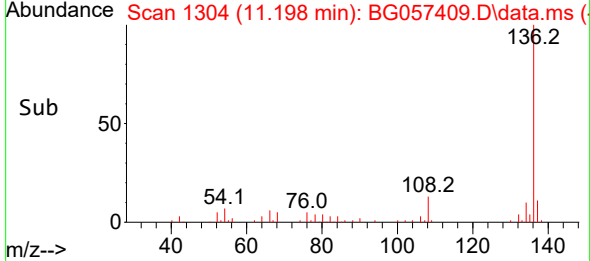
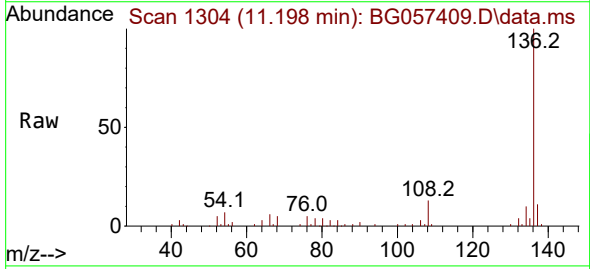
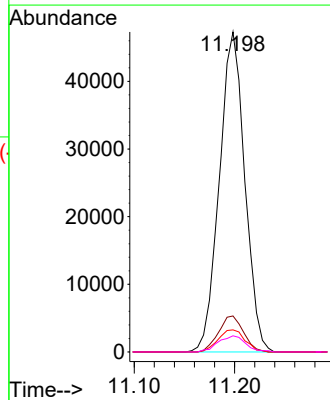


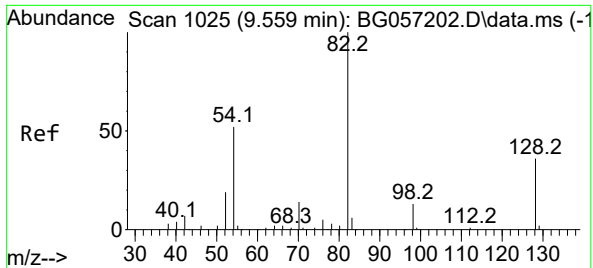
Tgt Ion: 70 Resp: 16097
 Ion Ratio Lower Upper
 70 100
 42 47.3 41.8 62.8
 101 0.0 6.8 10.2#
 130 0.0 14.2 21.2#



#21
 Naphthalene-d8
 Concen: 20.000 ng
 RT: 11.198 min Scan# 1304
 Delta R.T. -0.002 min
 Lab File: BG057409.D
 Acq: 12 May 2023 14:41

Tgt Ion:136 Resp: 83100
 Ion Ratio Lower Upper
 136 100
 137 11.3 8.3 12.5
 54 6.9 6.7 10.1
 68 5.1 4.6 6.8



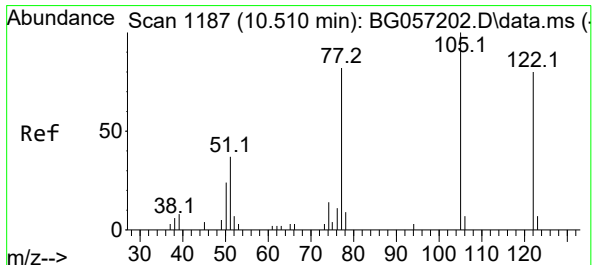
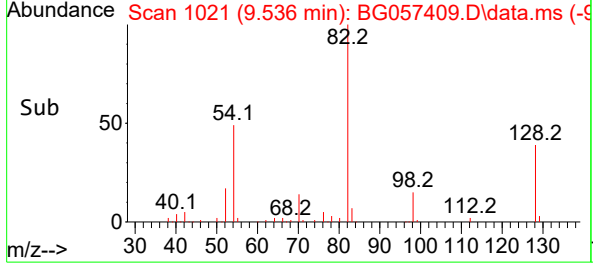
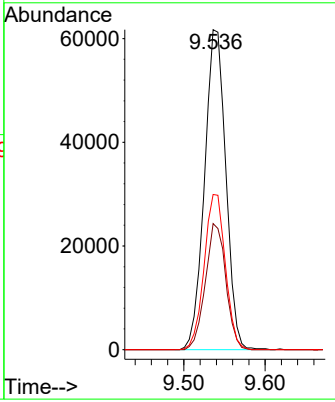
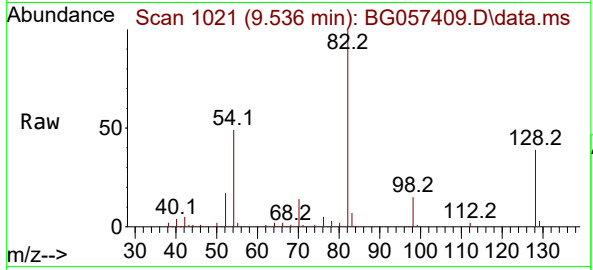


#23
 Nitrobenzene-d5
 Concen: 56.882 ng
 RT: 9.536 min Scan# 110
 Delta R.T. -0.008 min
 Lab File: BG057409.D
 Acq: 12 May 2023 14:41

Instrument :
 BNA_G
 ClientSampleId :
 TOPSOIL-OU3-GRILLO-1

Tgt Ion: 82 Resp: 112624

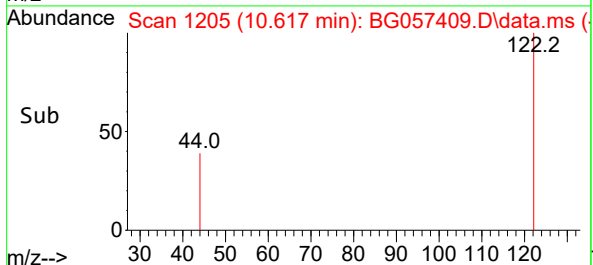
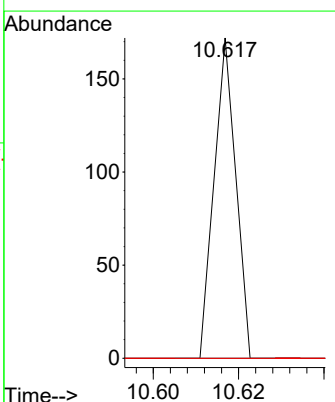
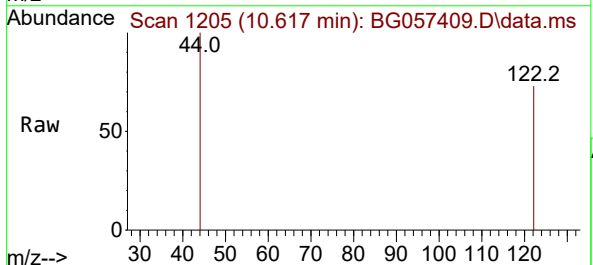
Ion	Ratio	Lower	Upper
82	100		
128	39.4	29.0	43.4
54	48.5	41.4	62.0

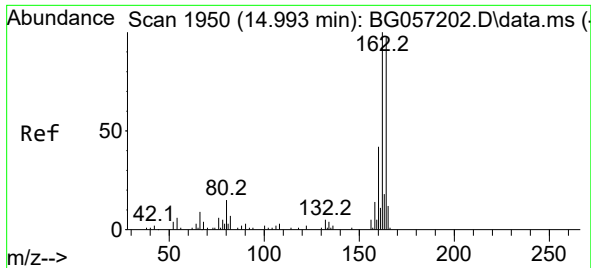


#32
 Benzoic acid
 Concen: 4.788 ng
 RT: 10.617 min Scan# 1205
 Delta R.T. 0.127 min
 Lab File: BG057409.D
 Acq: 12 May 2023 14:41

Tgt Ion: 122 Resp: 61

Ion	Ratio	Lower	Upper
122	100		
105	0.0	105.2	145.2#
77	0.0	83.1	123.1#

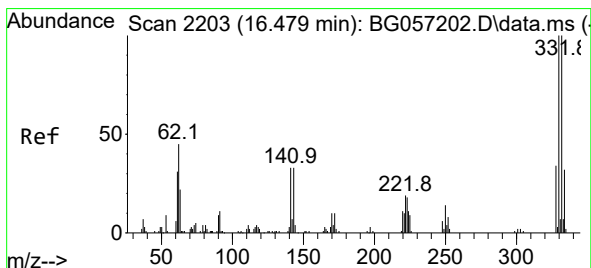
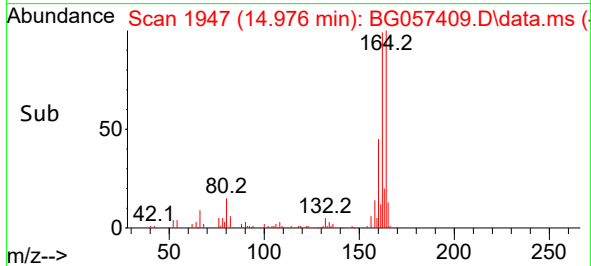
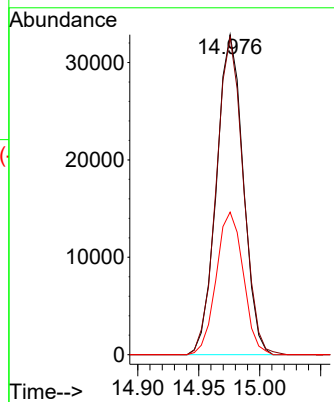
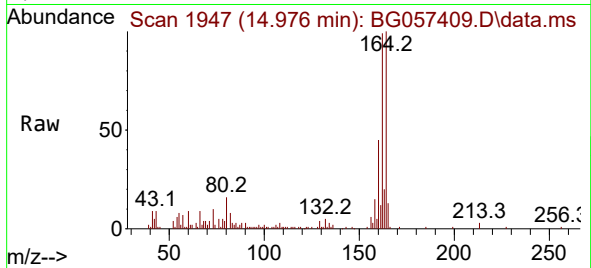




#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 14.976 min Scan# 14
 Delta R.T. -0.002 min
 Lab File: BG057409.D
 Acq: 12 May 2023 14:41

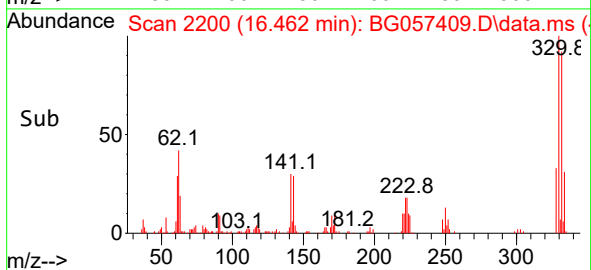
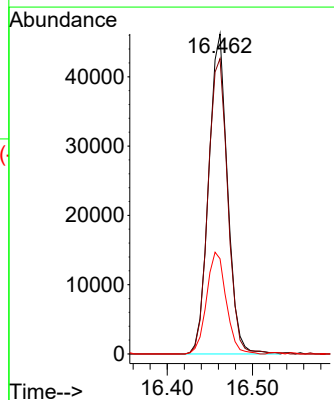
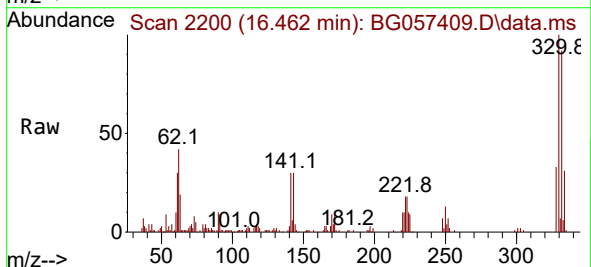
Instrument :
 BNA_G
 ClientSampleId :
 TOPSOIL-OU3-GRILLO-1

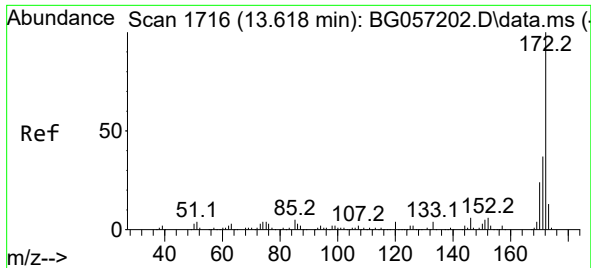
Tgt Ion:164 Resp: 49999
 Ion Ratio Lower Upper
 164 100
 162 99.2 81.8 122.6
 160 44.6 34.6 52.0



#42
 2,4,6-Tribromophenol
 Concen: 99.832 ng
 RT: 16.462 min Scan# 2200
 Delta R.T. -0.002 min
 Lab File: BG057409.D
 Acq: 12 May 2023 14:41

Tgt Ion:330 Resp: 70824
 Ion Ratio Lower Upper
 330 100
 332 96.1 78.2 117.2
 141 33.0 27.8 41.8



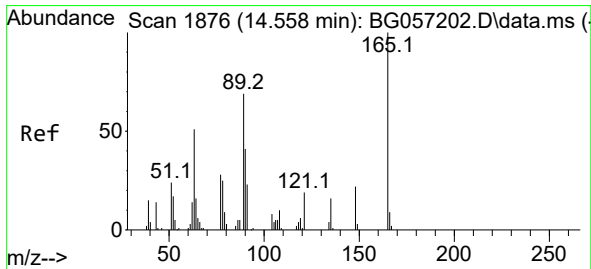
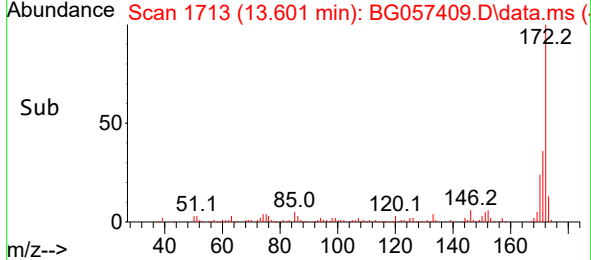
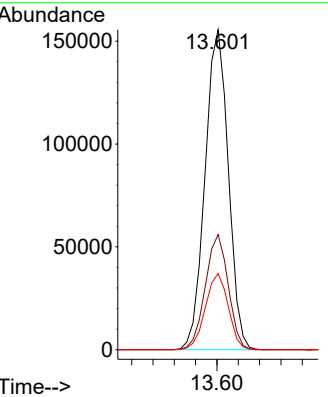
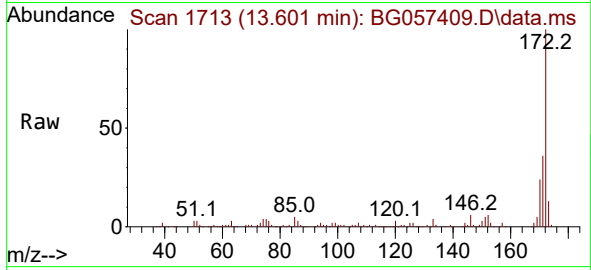


#45
 2-Fluorobiphenyl
 Concen: 63.378 ng
 RT: 13.601 min Scan# 11
 Delta R.T. -0.002 min
 Lab File: BG057409.D
 Acq: 12 May 2023 14:41

Instrument : BNA_G
 ClientSampleId : TOPSOIL-OU3-GRILLO-1

Tgt Ion:172 Resp: 235286

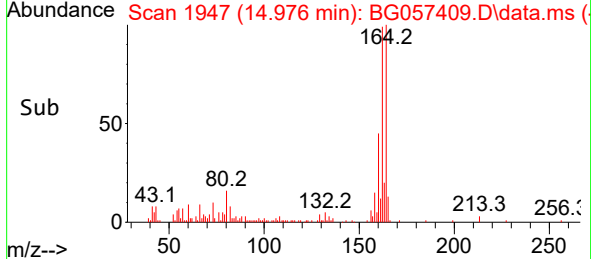
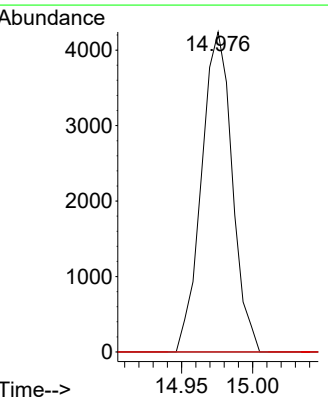
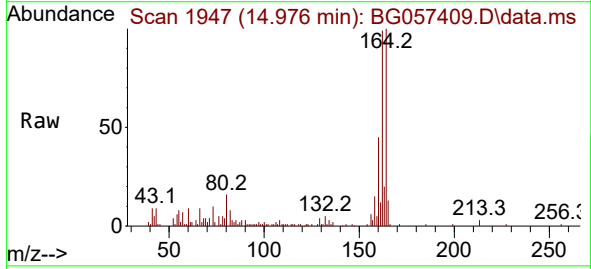
Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.4	44.0
170	23.8	19.0	28.6

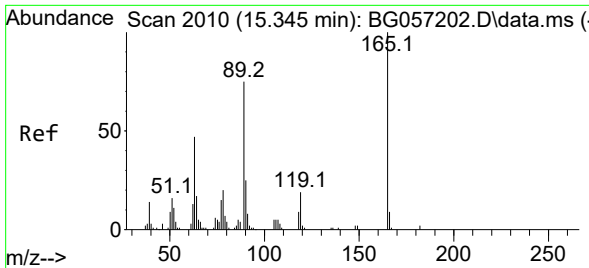


#51
 2,6-Dinitrotoluene
 Concen: 7.602 ng
 RT: 14.976 min Scan# 1947
 Delta R.T. 0.426 min
 Lab File: BG057409.D
 Acq: 12 May 2023 14:41

Tgt Ion:165 Resp: 6377

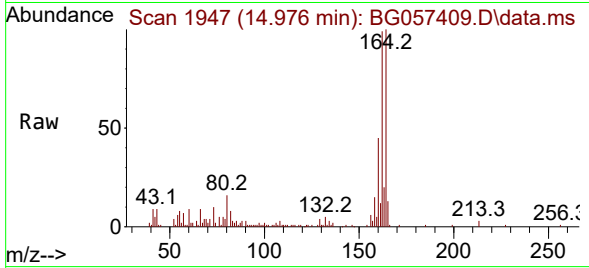
Ion	Ratio	Lower	Upper
165	100		
63	0.0	50.9	76.3#
89	0.0	55.2	82.8#





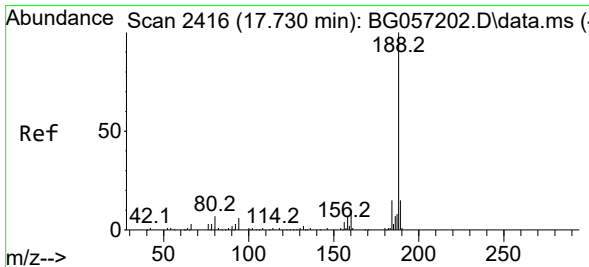
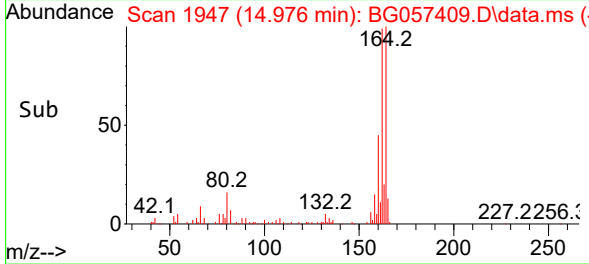
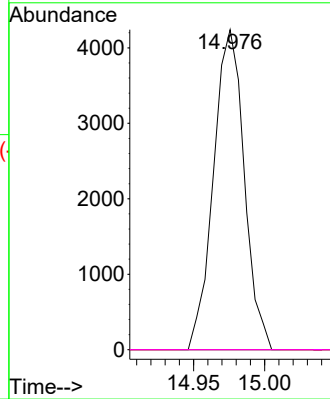
#57
 2,4-Dinitrotoluene
 Concen: 5.319 ng
 RT: 14.976 min Scan# 14976
 Delta R.T. -0.361 min
 Lab File: BG057409.D
 Acq: 12 May 2023 14:41

Instrument : BNA_G
 ClientSampleId : TOPSOIL-OU3-GRILLO-1



Tgt Ion:165 Resp: 6377

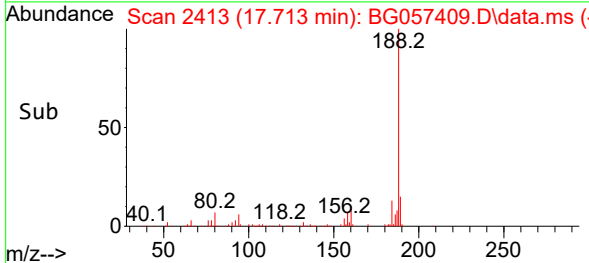
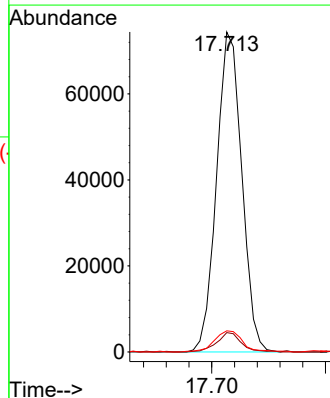
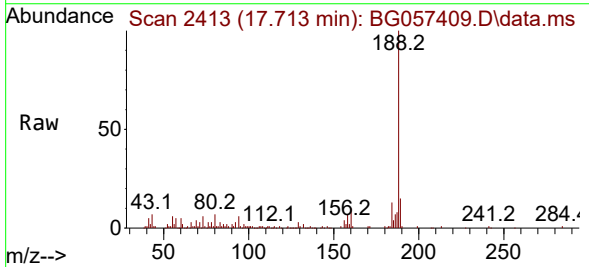
Ion	Ratio	Lower	Upper
165	100		
63	0.0	37.5	56.3#
89	0.0	60.2	90.4#
182	0.0	1.8	2.8#

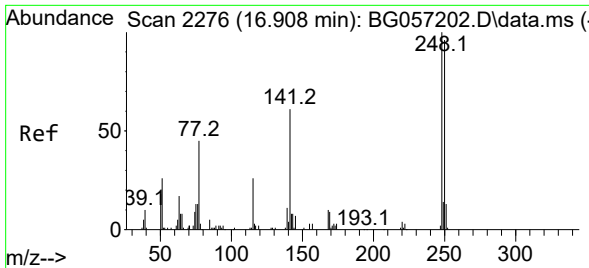


#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.713 min Scan# 2413
 Delta R.T. -0.008 min
 Lab File: BG057409.D
 Acq: 12 May 2023 14:41

Tgt Ion:188 Resp: 114425

Ion	Ratio	Lower	Upper
188	100		
94	6.0	5.1	7.7
80	6.6	5.7	8.5

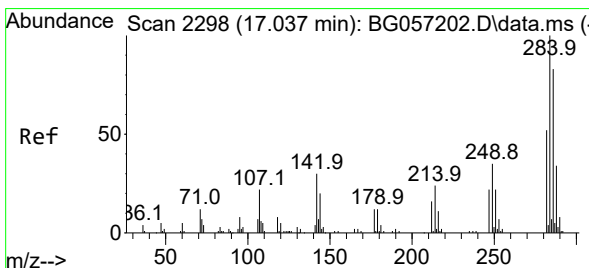
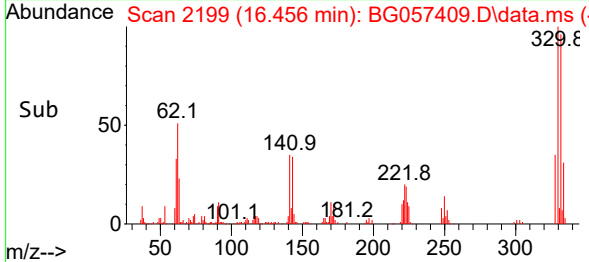
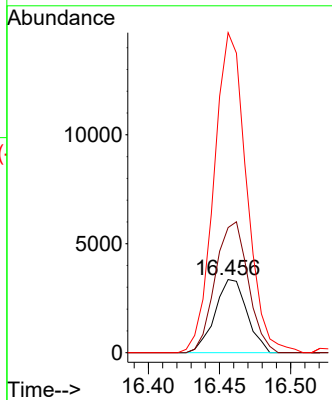
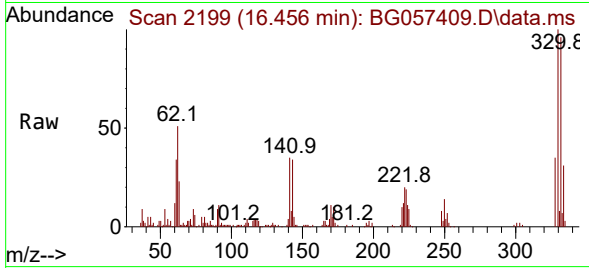




#67
 4-Bromophenyl-phenylether
 Concen: 3.765 ng
 RT: 16.456 min Scan# 2199
 Delta R.T. -0.437 min
 Lab File: BG057409.D
 Acq: 12 May 2023 14:41

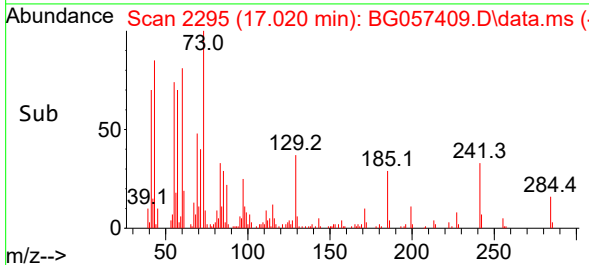
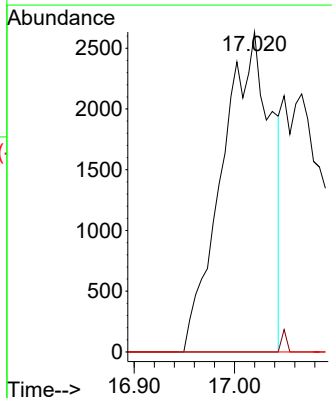
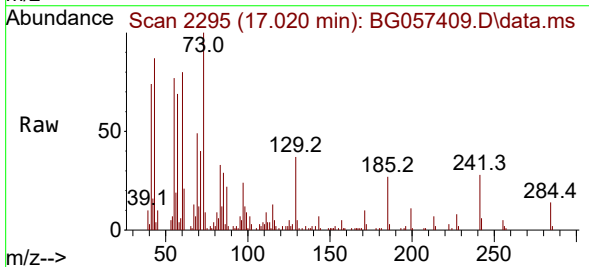
Instrument :
 BNA_G
 ClientSampleId :
 TOPSOIL-OU3-GRILLO-1

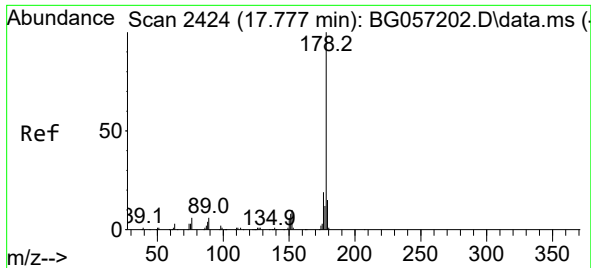
Tgt Ion:248 Resp: 5259
 Ion Ratio Lower Upper
 248 100
 250 171.1 77.0 115.6#
 141 437.5 48.6 72.8#



#68
 Hexachlorobenzene
 Concen: 6.639 ng
 RT: 17.020 min Scan# 2295
 Delta R.T. -0.008 min
 Lab File: BG057409.D
 Acq: 12 May 2023 14:41

Tgt Ion:284 Resp: 9012
 Ion Ratio Lower Upper
 284 100
 142 0.0 23.9 35.9#
 249 0.0 27.7 41.5#



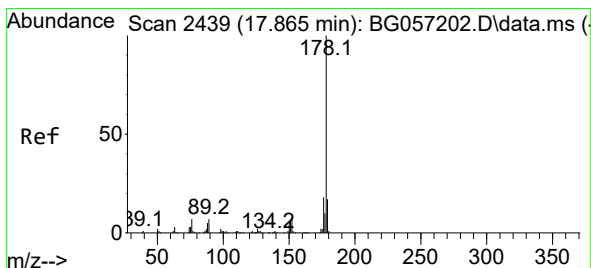
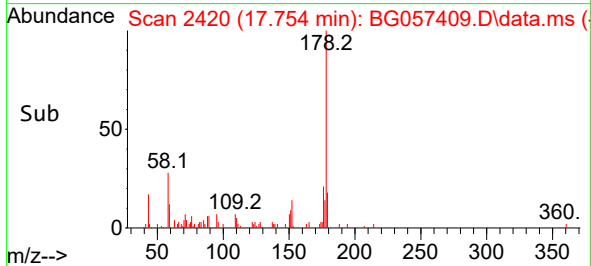
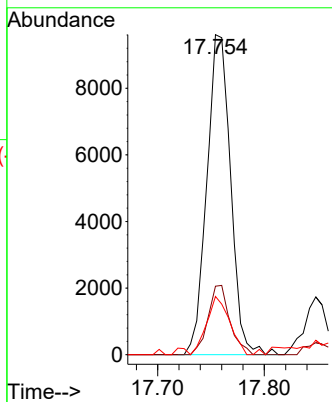
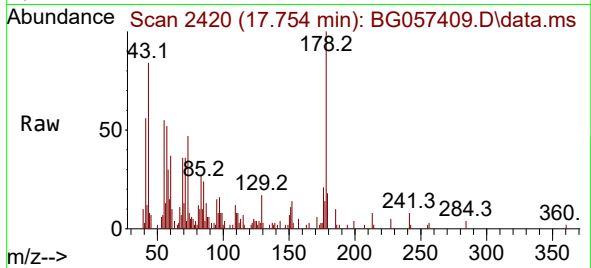


#71
 Phenanthrene
 Concen: 2.539 ng
 RT: 17.754 min Scan# 2420
 Delta R.T. -0.008 min
 Lab File: BG057409.D
 Acq: 12 May 2023 14:41

Instrument : BNA_G
 ClientSampleId : TOPSOIL-OU3-GRILLO-1

Tgt Ion:178 Resp: 14886

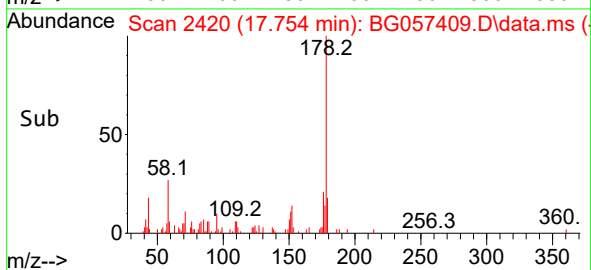
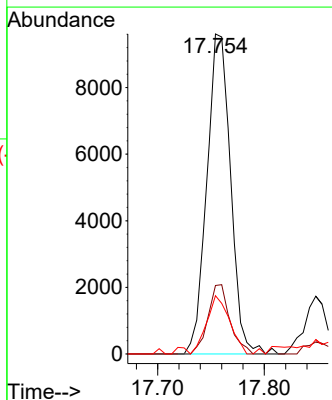
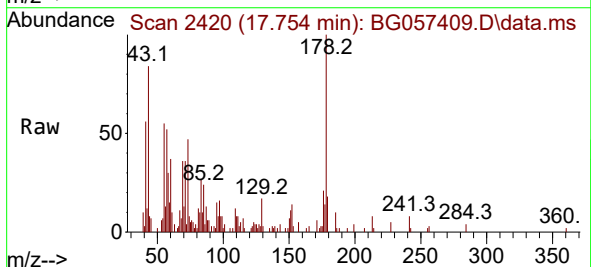
Ion	Ratio	Lower	Upper
178	100		
176	21.4	15.4	23.2
179	18.2	12.3	18.5

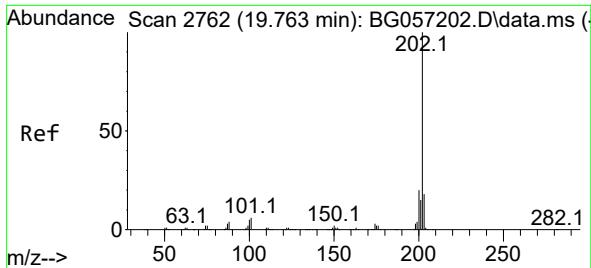


#72
 Anthracene
 Concen: 2.474 ng
 RT: 17.754 min Scan# 2420
 Delta R.T. -0.096 min
 Lab File: BG057409.D
 Acq: 12 May 2023 14:41

Tgt Ion:178 Resp: 14886

Ion	Ratio	Lower	Upper
178	100		
176	21.4	14.7	22.1
179	18.2	13.2	19.8



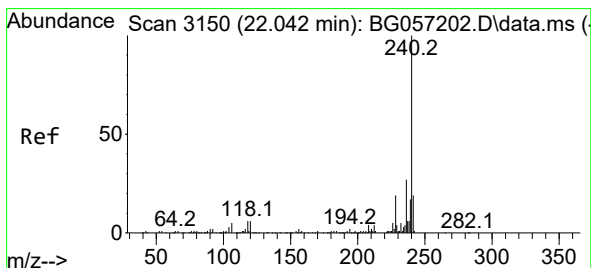
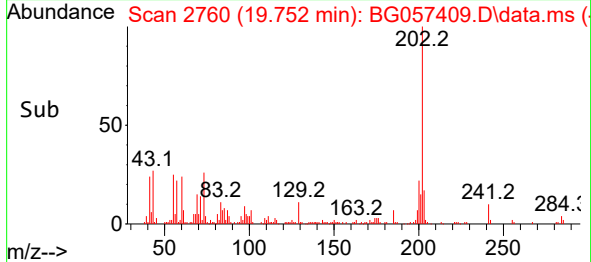
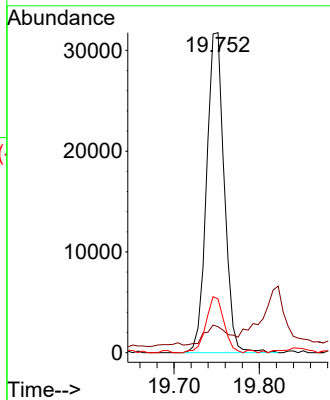
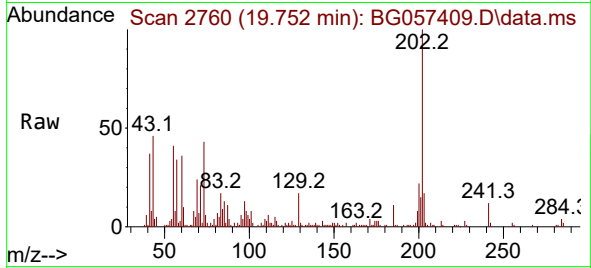


#75
 Fluoranthene
 Concen: 6.257 ng
 RT: 19.752 min Scan# 21
 Delta R.T. -0.002 min
 Lab File: BG057409.D
 Acq: 12 May 2023 14:41

Instrument :
 BNA_G
 ClientSampleId :
 TOPSOIL-OU3-GRILLO-1

Tgt Ion:202 Resp: 45630

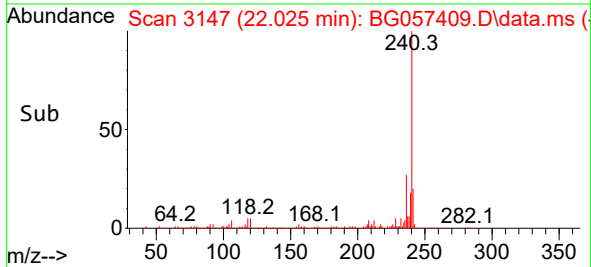
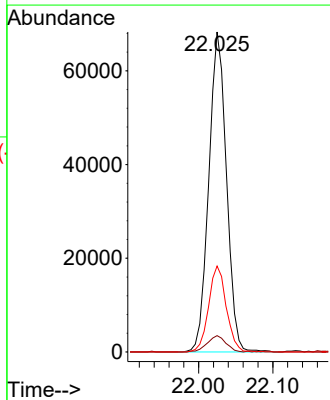
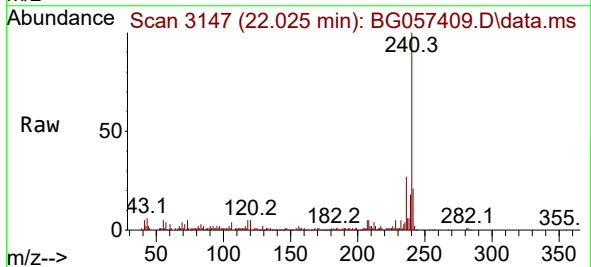
Ion	Ratio	Lower	Upper
202	100		
101	8.1	0.0	26.2
203	16.8	0.0	37.9

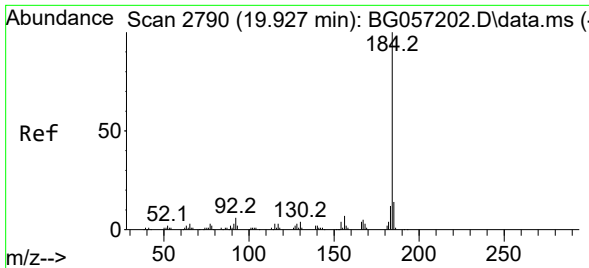


#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 22.025 min Scan# 3147
 Delta R.T. -0.008 min
 Lab File: BG057409.D
 Acq: 12 May 2023 14:41

Tgt Ion:240 Resp: 113038

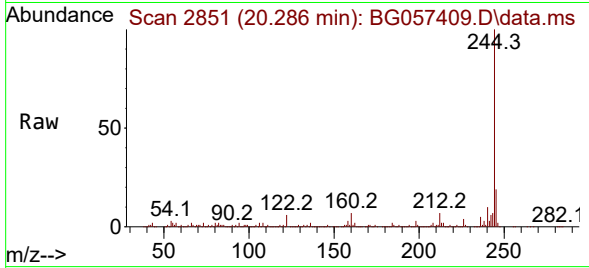
Ion	Ratio	Lower	Upper
240	100		
120	5.1	4.9	7.3
236	26.9	21.4	32.2



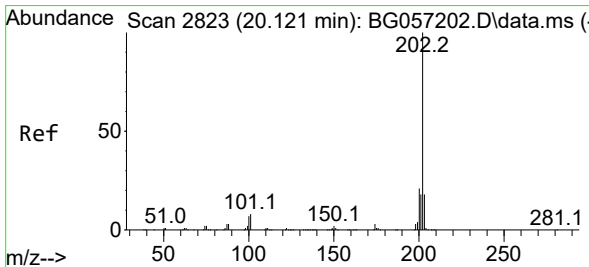
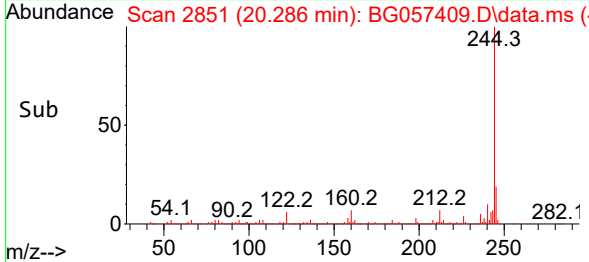
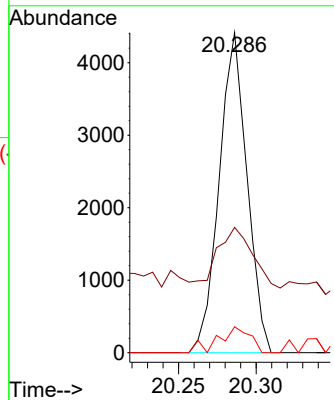


#77
 Benzidine
 Concen: 2.180 ng
 RT: 20.286 min Scan# 21
 Delta R.T. 0.368 min
 Lab File: BG057409.D
 Acq: 12 May 2023 14:41

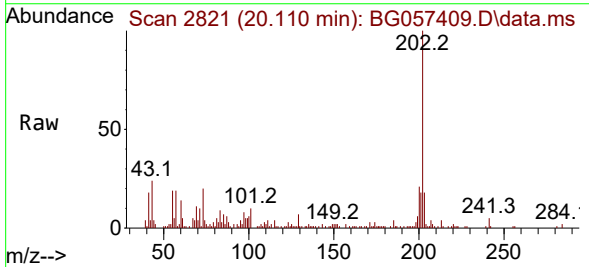
Instrument : BNA_G
 ClientSampleId : TOPSOIL-OU3-GRILLO-1



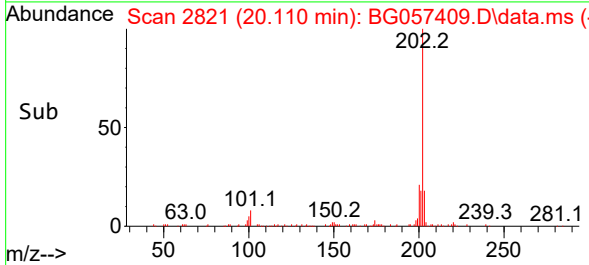
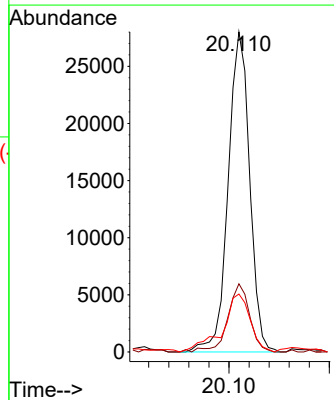
Tgt Ion:184 Resp: 5508
 Ion Ratio Lower Upper
 184 100
 185 39.1 11.1 16.7#
 183 8.1 9.9 14.9#

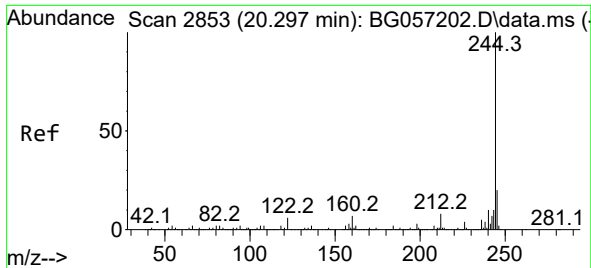


#78
 Pyrene
 Concen: 5.061 ng
 RT: 20.110 min Scan# 2821
 Delta R.T. -0.002 min
 Lab File: BG057409.D
 Acq: 12 May 2023 14:41



Tgt Ion:202 Resp: 41569
 Ion Ratio Lower Upper
 202 100
 200 21.3 17.0 25.4
 203 18.1 14.2 21.4

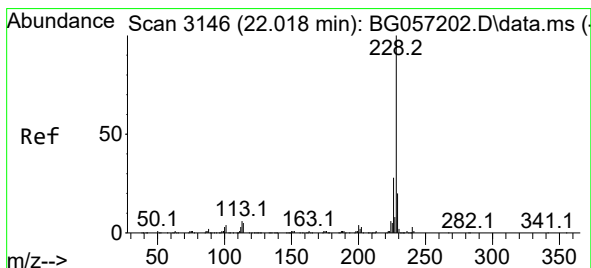
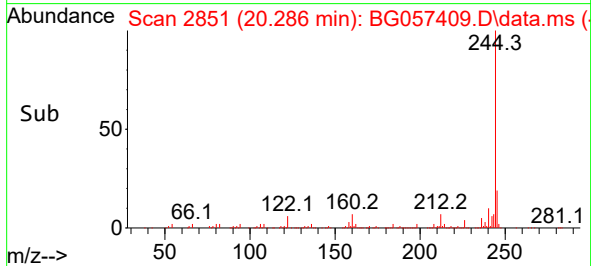
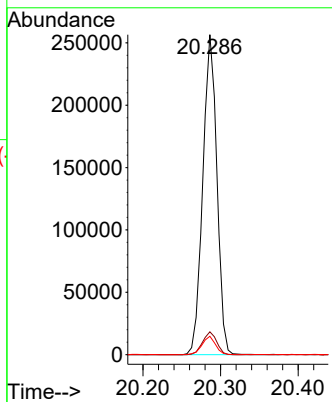
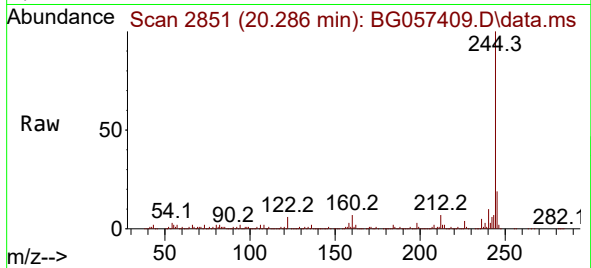




#79
 Terphenyl-d14
 Concen: 46.673 ng
 RT: 20.286 min Scan# 21
 Delta R.T. -0.002 min
 Lab File: BG057409.D
 Acq: 12 May 2023 14:41

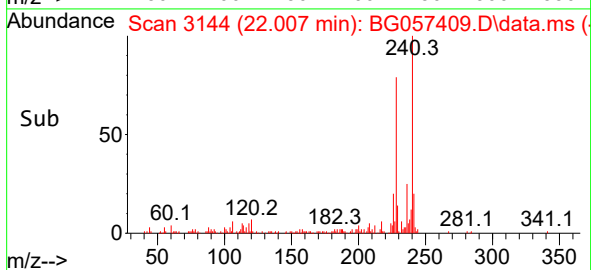
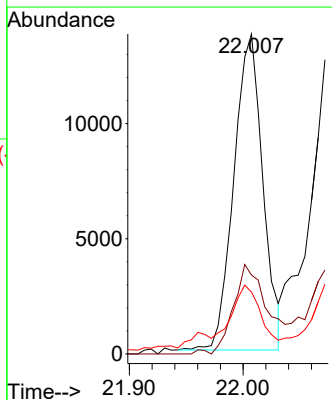
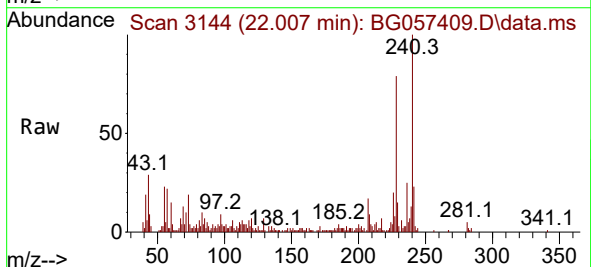
Instrument :
 BNA_G
 ClientSampleId :
 TOPSOIL-OU3-GRILLO-1

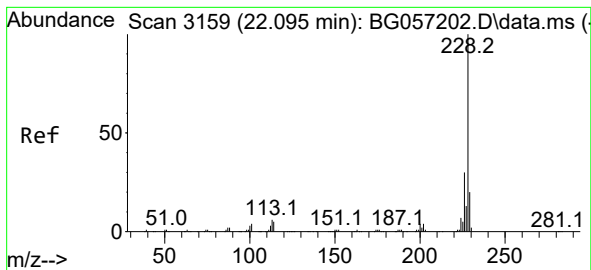
Tgt Ion:244 Resp: 323289
 Ion Ratio Lower Upper
 244 100
 212 7.1 6.1 9.1
 122 5.7 5.1 7.7



#81
 Benzo(a)anthracene
 Concen: 3.006 ng
 RT: 22.007 min Scan# 3144
 Delta R.T. -0.002 min
 Lab File: BG057409.D
 Acq: 12 May 2023 14:41

Tgt Ion:228 Resp: 24212
 Ion Ratio Lower Upper
 228 100
 226 24.7 22.0 33.0
 229 19.4 15.8 23.8

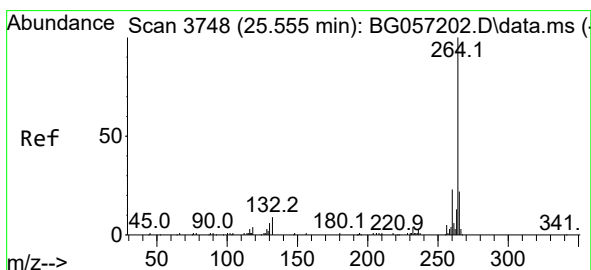
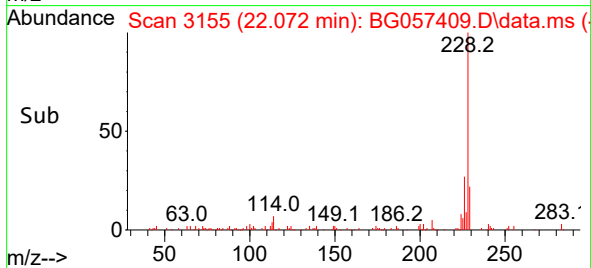
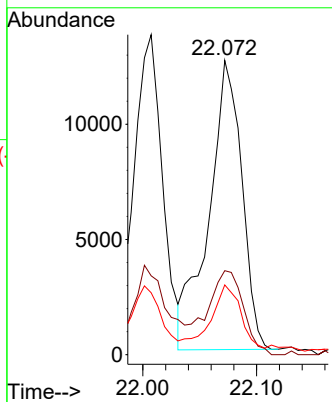
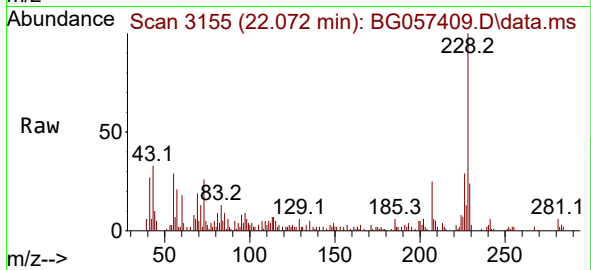




#83
 Chrysene
 Concen: 3.346 ng
 RT: 22.072 min Scan# 3155
 Delta R.T. -0.008 min
 Lab File: BG057409.D
 Acq: 12 May 2023 14:41

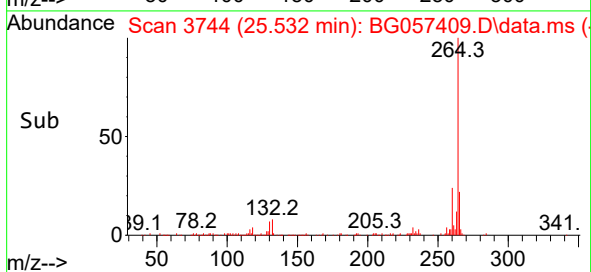
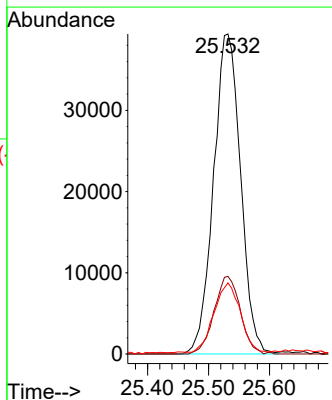
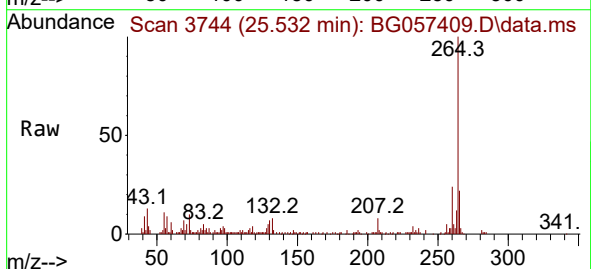
Instrument : BNA_G
 ClientSampleId : TOPSOIL-OU3-GRILLO-1

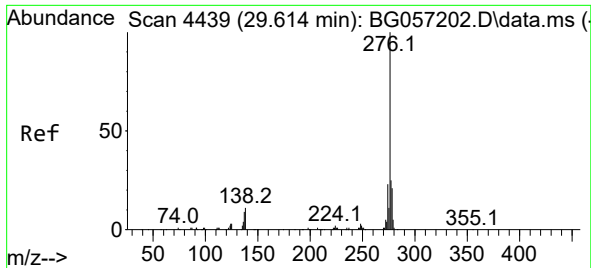
Tgt Ion	Resp	Lower	Upper
228	100		
226	28.5	24.3	36.5
229	23.7	15.9	23.9



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 25.532 min Scan# 3744
 Delta R.T. -0.002 min
 Lab File: BG057409.D
 Acq: 12 May 2023 14:41

Tgt Ion	Resp	Lower	Upper
264	100		
260	24.3	18.8	28.2
265	22.2	17.9	26.9

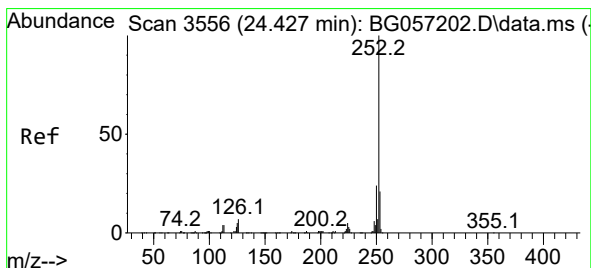
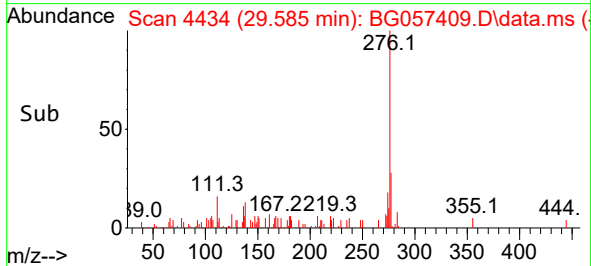
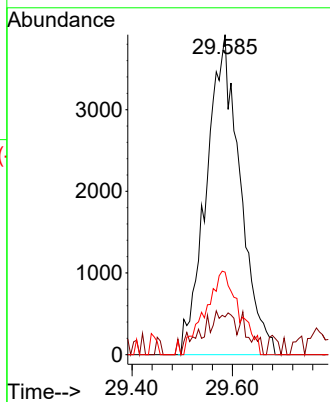
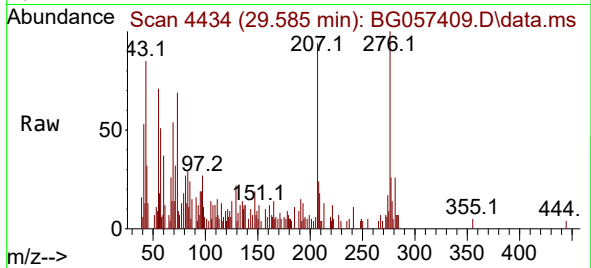




#87
 Indeno(1,2,3-cd)pyrene
 Concen: 2.063 ng
 RT: 29.585 min Scan# 4434
 Delta R.T. -0.014 min
 Lab File: BG057409.D
 Acq: 12 May 2023 14:41

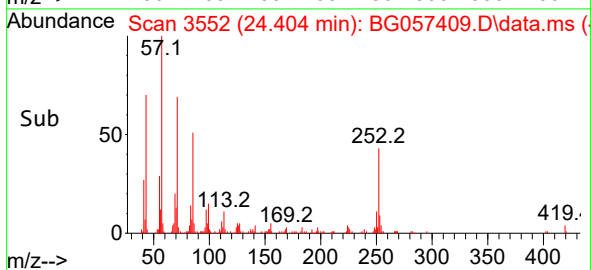
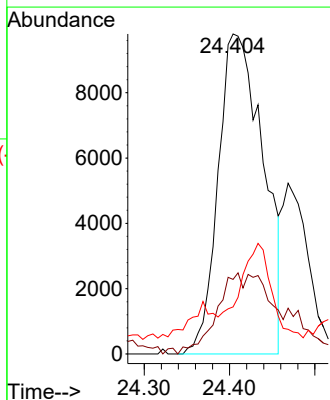
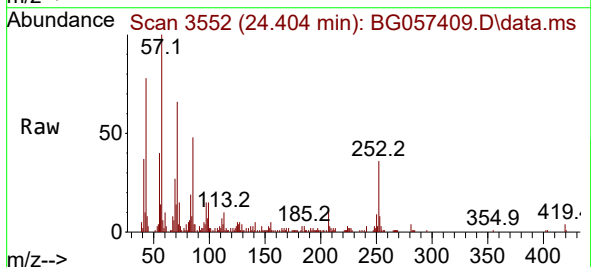
Instrument : BNA_G
 ClientSampleId : TOPSOIL-OU3-GRILLO-1

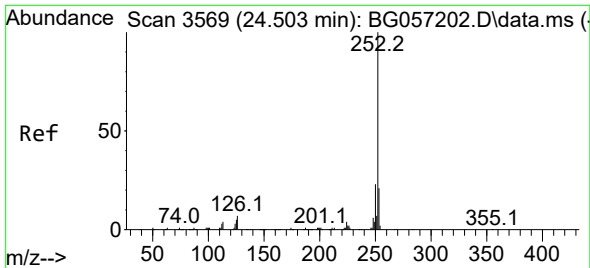
Tgt Ion: 276 Resp: 18267
 Ion Ratio Lower Upper
 276 100
 138 1.8 5.4 8.0#
 277 26.2 20.6 30.8



#88
 Benzo(b)fluoranthene
 Concen: 4.519 ng
 RT: 24.404 min Scan# 3552
 Delta R.T. -0.008 min
 Lab File: BG057409.D
 Acq: 12 May 2023 14:41

Tgt Ion: 252 Resp: 35889
 Ion Ratio Lower Upper
 252 100
 253 23.3 17.0 25.6
 125 14.7 4.2 6.2#

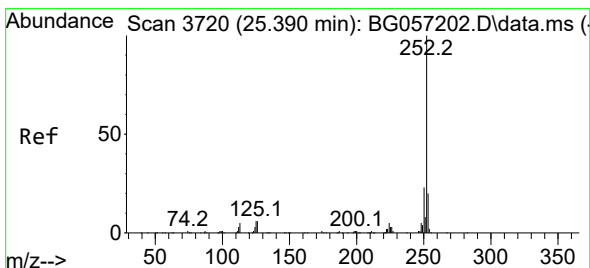
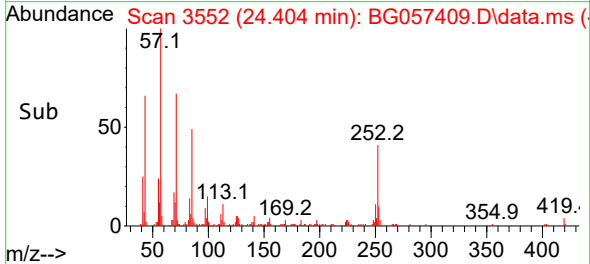
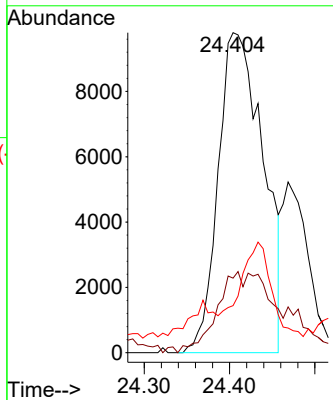
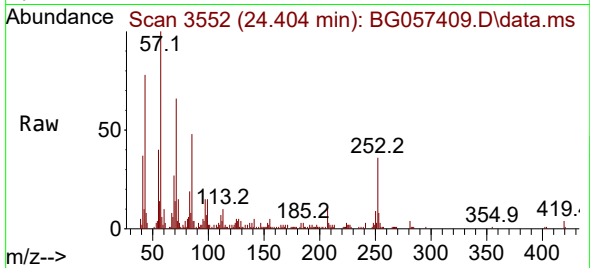




#89
 Benzo(k)fluoranthene
 Concen: 4.448 ng
 RT: 24.404 min Scan# 3111
 Delta R.T. -0.085 min
 Lab File: BG057409.D
 Acq: 12 May 2023 14:41

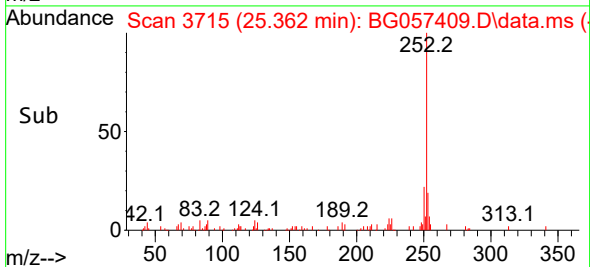
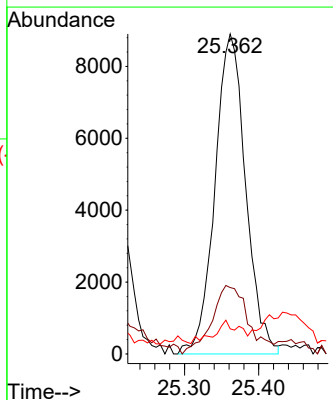
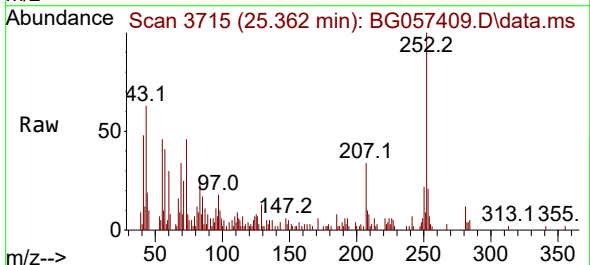
Instrument : BNA_G
 ClientSampleId : TOPSOIL-OU3-GRILLO-1

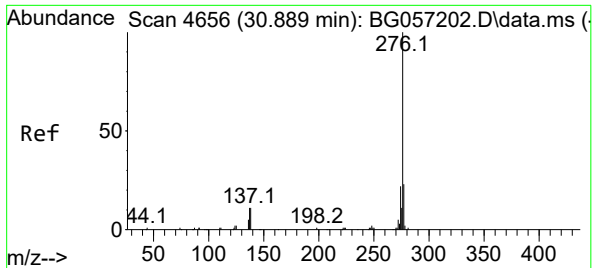
Tgt Ion	Resp	Lower	Upper
252	35889		
253	23.3	17.4	26.0
125	14.7	4.1	6.1



#90
 Benzo(a)pyrene
 Concen: 3.301 ng
 RT: 25.362 min Scan# 3715
 Delta R.T. -0.014 min
 Lab File: BG057409.D
 Acq: 12 May 2023 14:41

Tgt Ion	Resp	Lower	Upper
252	25609		
253	20.8	16.3	24.5
125	7.8	5.0	7.4





#92
 Benzo(g,h,i)perylene
 Concen: 2.529 ng
 RT: 30.866 min Scan# 40
 Delta R.T. -0.008 min
 Lab File: BG057409.D
 Acq: 12 May 2023 14:41

Instrument :
 BNA_G
 ClientSampleId :
 TOPSOIL-OU3-GRILLO-1

Tgt Ion	Resp	Lower	Upper
276	18208		
277	21.2	18.4	27.6
138	14.5	9.0	13.4#

