

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG112223\
 Data File : BG059845.D
 Acq On : 23 Nov 2023 9:56
 Operator : MA/JU
 Sample : 05445-04
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SOIL-2-1115

Quant Time: Nov 24 00:18:47 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG111623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 17 01:51:38 2023
 Response via : Initial Calibration

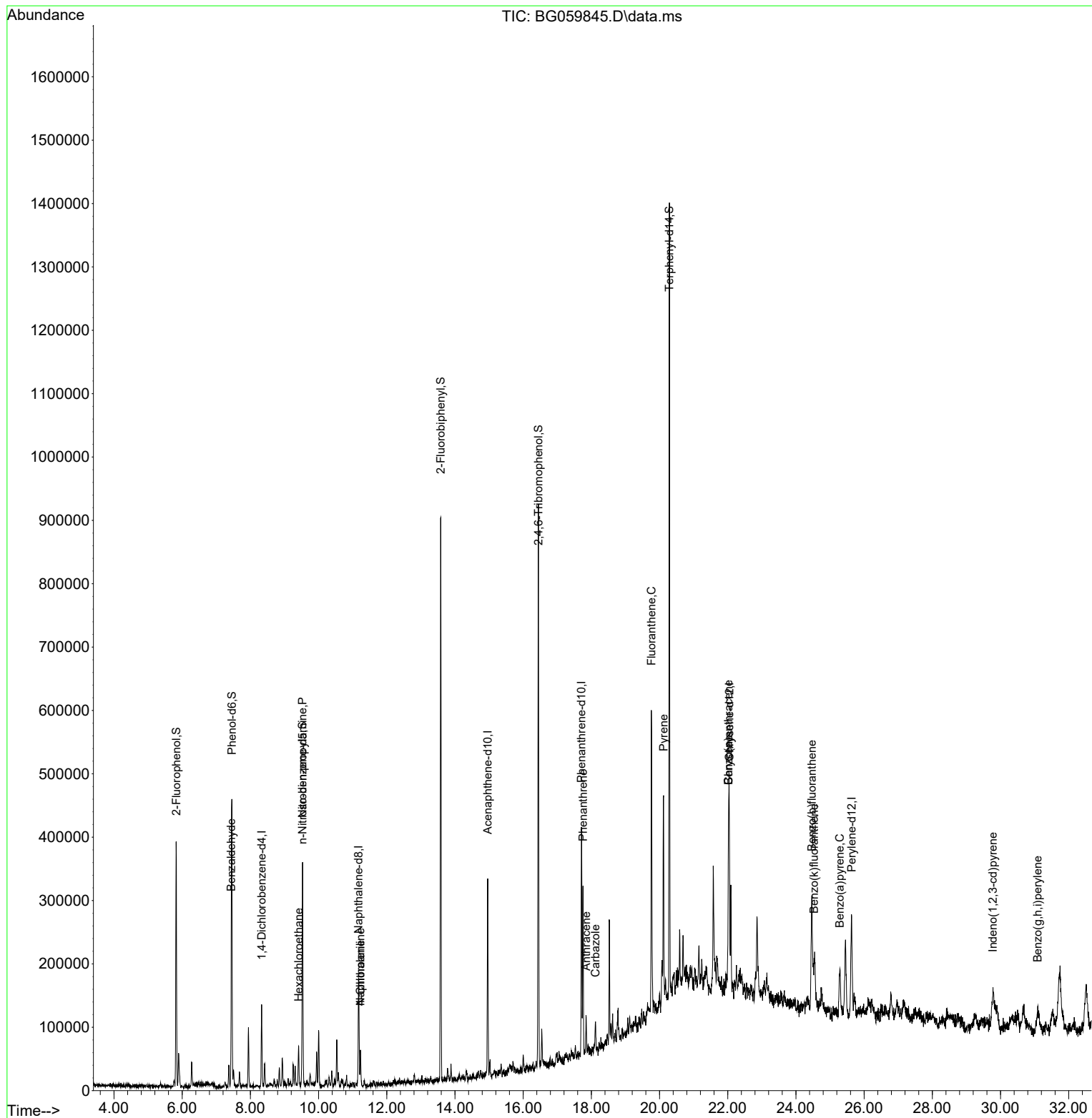
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.332	152	24024	20.000	ng	#-0.01
21) Naphthalene-d8	11.176	136	116182	20.000	ng	#-0.02
39) Acenaphthene-d10	14.959	164	95752	20.000	ng	-0.01
64) Phenanthrene-d10	17.709	188	199225	20.000	ng	#-0.01
76) Chrysene-d12	22.045	240	150000	20.000	ng	0.00
86) Perylene-d12	25.635	264	181938	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.829	112	134889	94.504	ng	0.00
7) Phenol-d6	7.457	99	204383	96.627	ng	0.00
23) Nitrobenzene-d5	9.531	82	211395	69.491	ng	-0.01
42) 2,4,6-Tribromophenol	16.452	330	116529	107.259	ng	0.00
45) 2-Fluorobiphenyl	13.579	172	395709	55.627	ng	-0.02
79) Terphenyl-d14	20.289	244	500822	49.289	ng	0.00
Target Compounds						
						Qvalue
9) Benzaldehyde	7.439	77	3382	2.365	ng	# 24
18) Hexachloroethane	9.419	117	4019	5.482	ng	# 1
19) n-Nitroso-di-n-propyla...	9.525	70	33518	20.123	ng	# 73
31) Naphthalene	11.229	128	35014	5.993	ng	# 95
33) 4-Chloroaniline	11.229	127	5456	2.196	ng	# 21
71) Phenanthrene	17.756	178	140948	13.915	ng	# 91
72) Anthracene	17.844	178	36149	3.435	ng	# 92
73) Carbazole	18.120	167	24113	2.623	ng	# 89
75) Fluoranthene	19.760	202	256789	21.140	ng	94
78) Pyrene	20.118	202	195089	19.115	ng	98
81) Benzo(a)anthracene	22.022	228	118613	11.557	ng	94
83) Chrysene	22.022	228	118613	12.607	ng	97
87) Indeno(1,2,3-cd)pyrene	29.772	276	103497	7.518	ng	# 98
88) Benzo(b)fluoranthene	24.466	252	178145	17.865	ng	# 99
89) Benzo(k)fluoranthene	24.531	252	57271	5.809	ng	# 99
90) Benzo(a)pyrene	25.283	252	88716	8.336	ng	94
92) Benzo(g,h,i)perylene	31.088	276	94855	8.583	ng	# 89

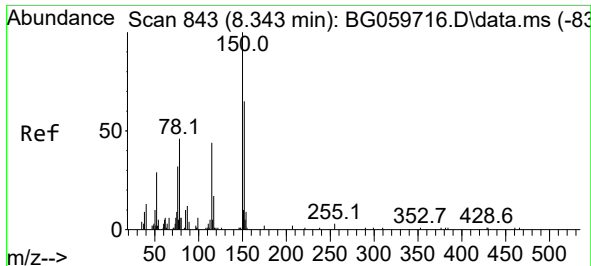
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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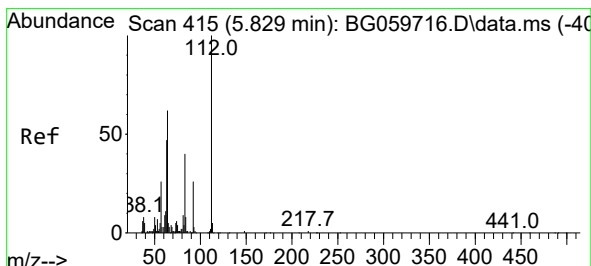
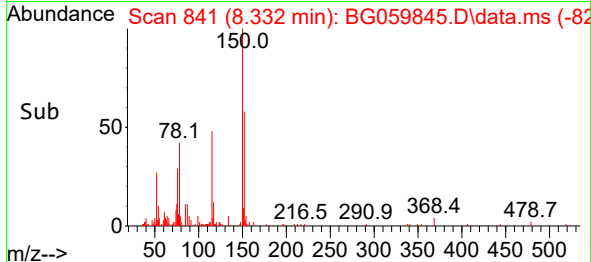
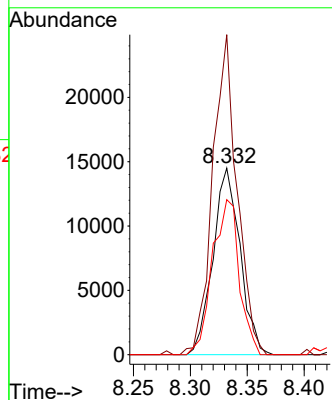
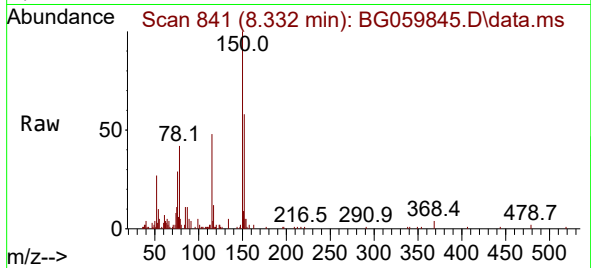




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.332 min Scan# 84
Delta R.T. -0.011 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56

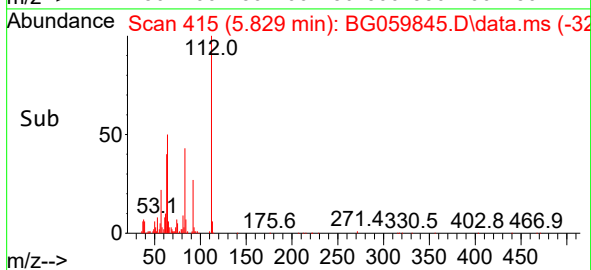
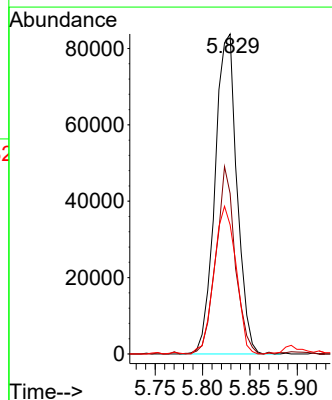
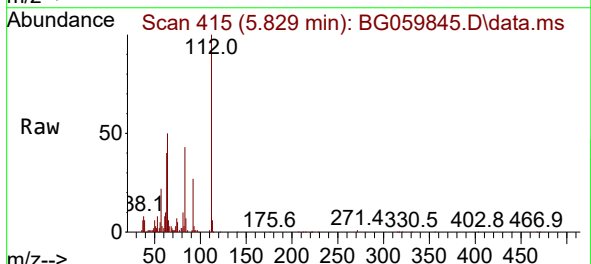
Instrument :
BNA_G
ClientSampleId :
SOIL-2-1115

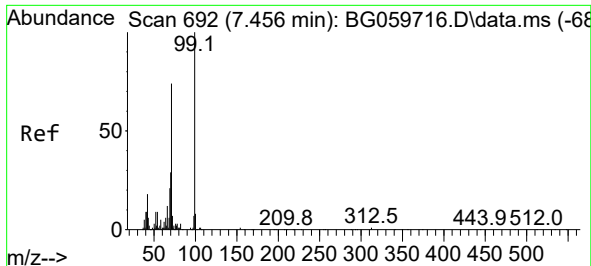
Tgt Ion:152 Resp: 24024
Ion Ratio Lower Upper
152 100
150 171.5 122.2 183.4
115 83.1 54.2 81.4#



#5
2-Fluorophenol
Concen: 94.504 ng
RT: 5.829 min Scan# 415
Delta R.T. 0.000 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56

Tgt Ion:112 Resp: 134889
Ion Ratio Lower Upper
112 100
64 50.2 49.5 74.3
63 40.4 37.4 56.2

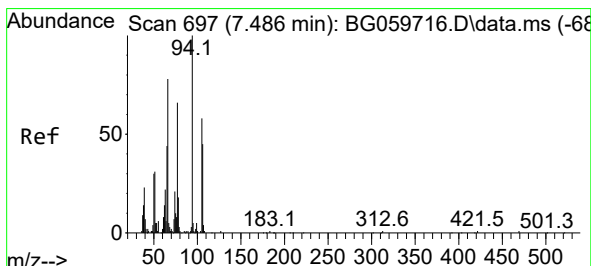
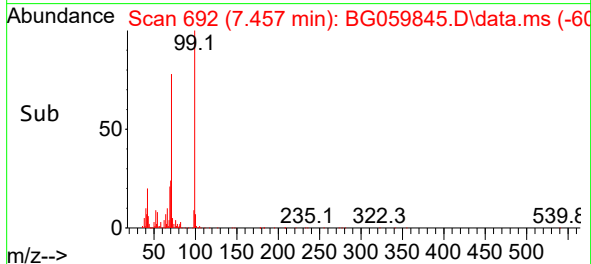
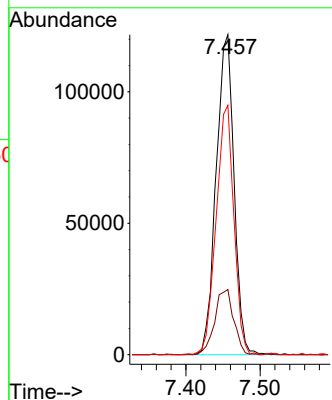
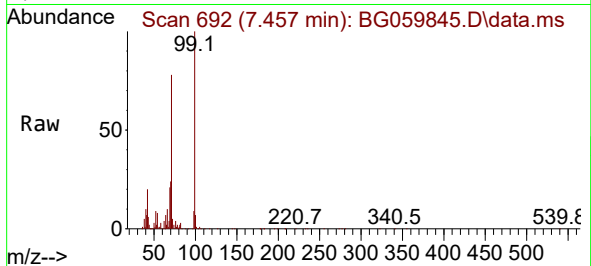




#7
Phenol-d6
Concen: 96.627 ng
RT: 7.457 min Scan# 692
Delta R.T. 0.000 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56

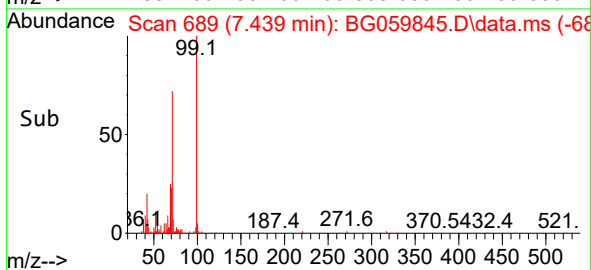
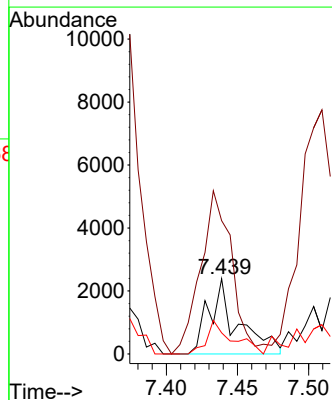
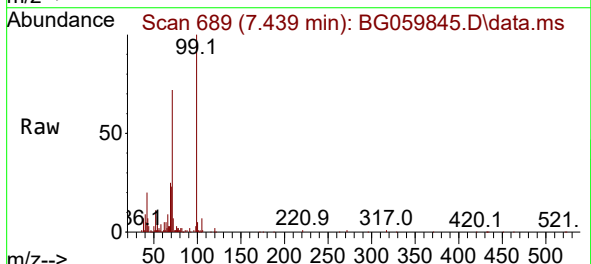
Instrument :
BNA_G
ClientSampleId :
SOIL-2-1115

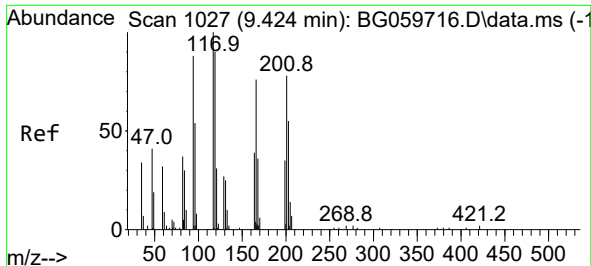
Tgt Ion: 99 Resp: 204383
Ion Ratio Lower Upper
99 100
42 20.4 14.3 21.5
71 78.0 59.3 88.9



#9
Benzaldehyde
Concen: 2.365 ng
RT: 7.439 min Scan# 689
Delta R.T. -0.047 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56

Tgt Ion: 77 Resp: 3382
Ion Ratio Lower Upper
77 100
105 177.5 68.0 108.0#
106 28.2 48.1 88.1#

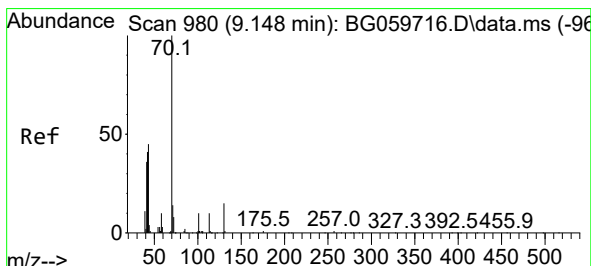
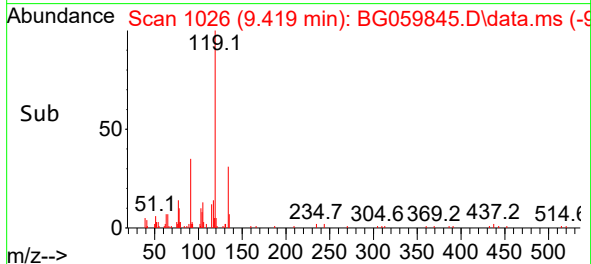
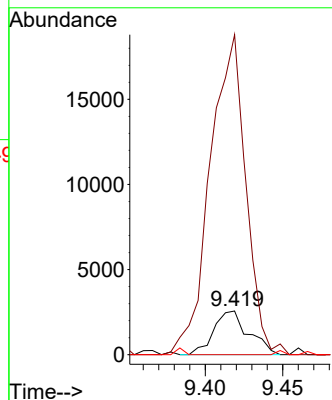
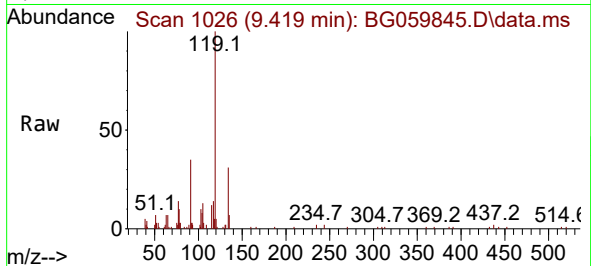




#18
Hexachloroethane
Concen: 5.482 ng
RT: 9.419 min Scan# 1026
Delta R.T. -0.006 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56

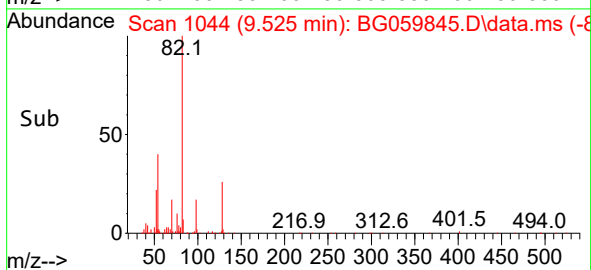
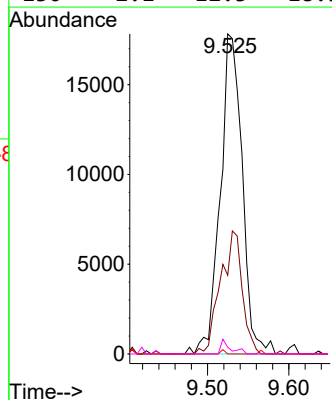
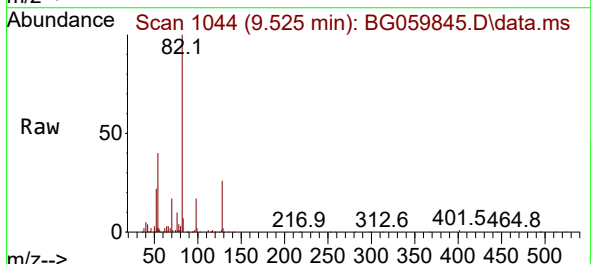
Instrument :
BNA_G
ClientSampleId :
SOIL-2-1115

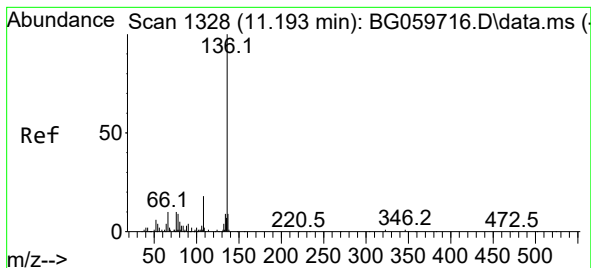
Tgt Ion:117 Resp: 4019
Ion Ratio Lower Upper
117 100
119 732.4 71.8 107.8#
201 0.0 62.2 93.4#



#19
n-Nitroso-di-n-propylamine
Concen: 20.123 ng
RT: 9.525 min Scan# 1044
Delta R.T. 0.376 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56

Tgt Ion: 70 Resp: 33518
Ion Ratio Lower Upper
70 100
42 24.6 32.8 49.2#
101 0.0 7.7 11.5#
130 2.1 12.3 18.5#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 11.176 min Scan# 11

Delta R.T. -0.017 min

Lab File: BG059845.D

Acq: 23 Nov 2023 9:56

Instrument :

BNA_G

ClientSampleId :

SOIL-2-1115

Tgt Ion:136 Resp: 116182

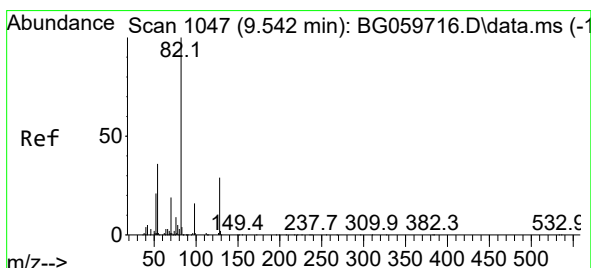
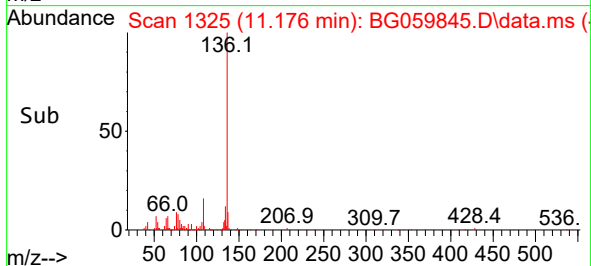
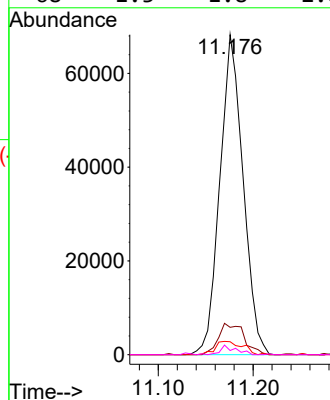
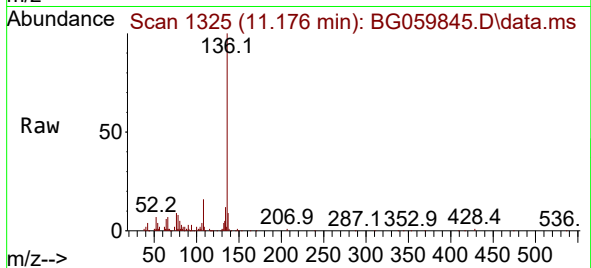
Ion Ratio Lower Upper

136 100

137 8.5 7.4 11.0

54 4.0 3.1 4.7

68 1.3 1.8 2.8#



#23

Nitrobenzene-d5

Concen: 69.491 ng

RT: 9.531 min Scan# 1045

Delta R.T. -0.011 min

Lab File: BG059845.D

Acq: 23 Nov 2023 9:56

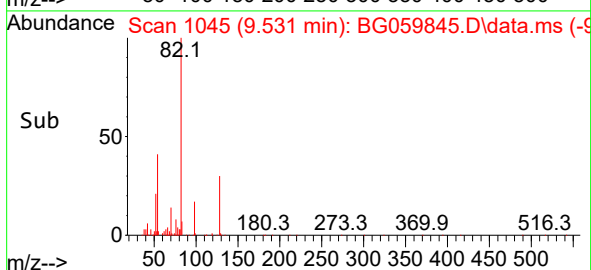
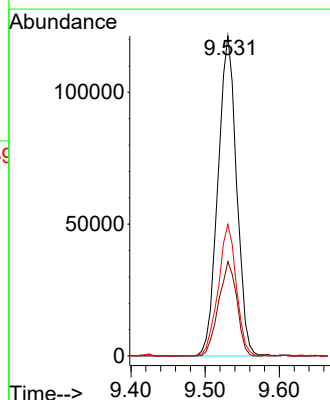
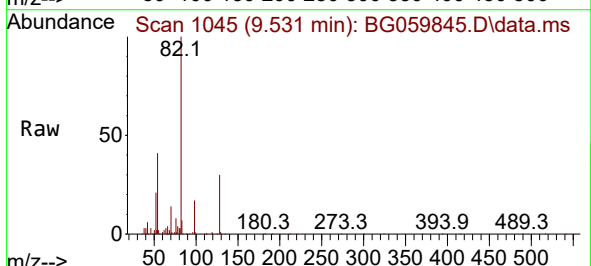
Tgt Ion: 82 Resp: 211395

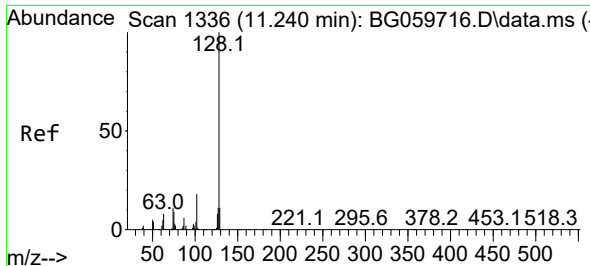
Ion Ratio Lower Upper

82 100

128 29.5 23.0 34.6

54 41.1 28.7 43.1

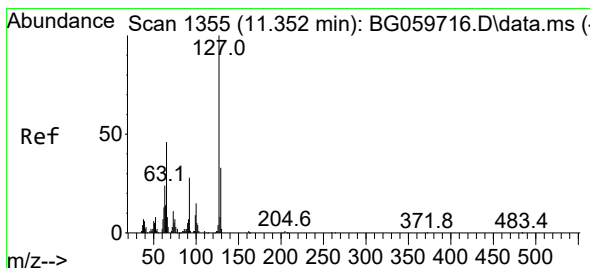
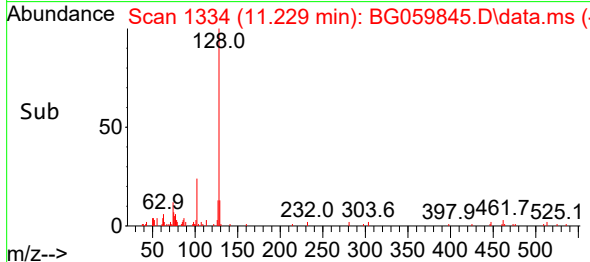
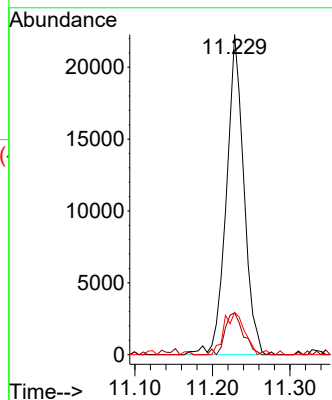
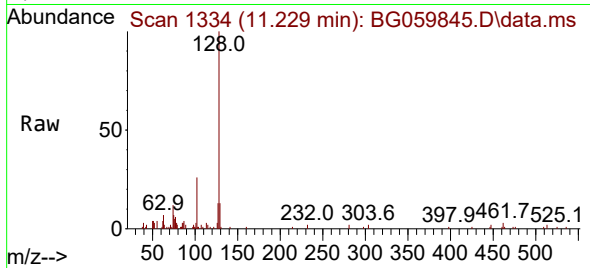




#31
Naphthalene
Concen: 5.993 ng
RT: 11.229 min Scan# 11
Delta R.T. -0.011 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56

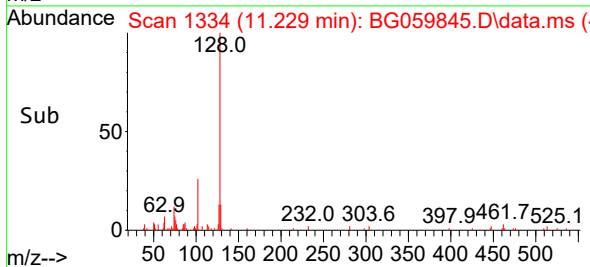
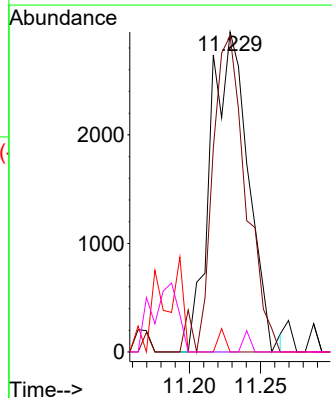
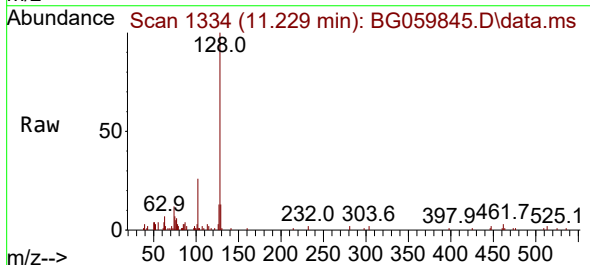
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SOIL-2-1115

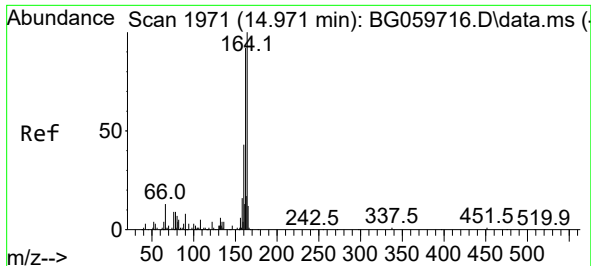
Tgt Ion:128 Resp: 35014
Ion Ratio Lower Upper
128 100
129 13.1 8.7 13.1#
127 13.2 9.2 13.8



#33
4-Chloroaniline
Concen: 2.196 ng
RT: 11.229 min Scan# 1334
Delta R.T. -0.123 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56

Tgt Ion:127 Resp: 5456
Ion Ratio Lower Upper
127 100
129 98.8 26.8 40.2#
65 0.0 36.5 54.7#
92 0.0 22.1 33.1#

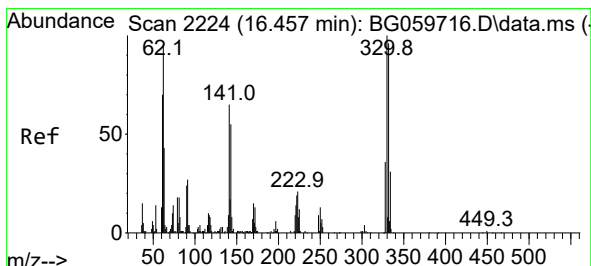
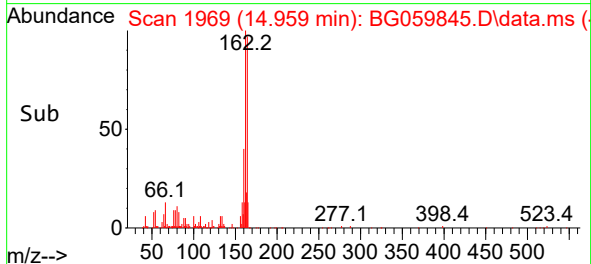
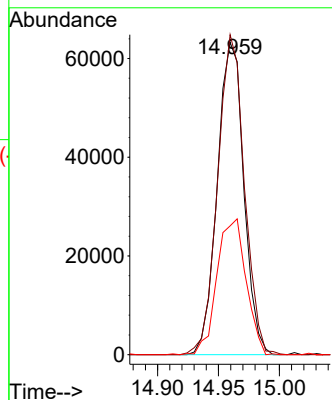
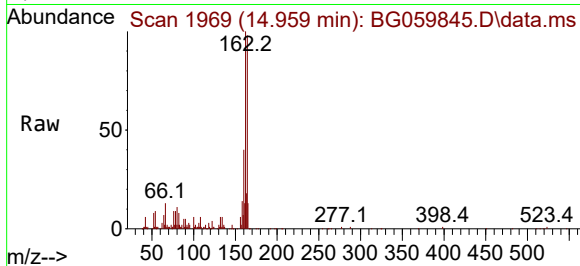




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.959 min Scan# 1969
Delta R.T. -0.011 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56

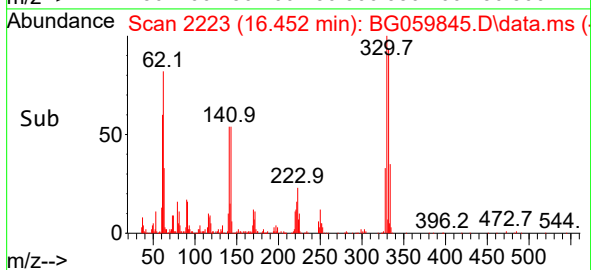
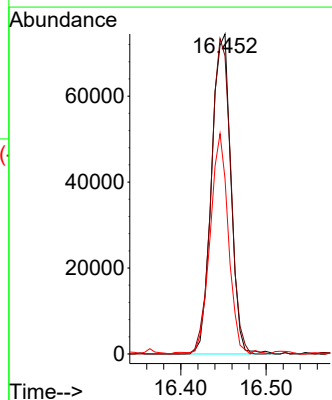
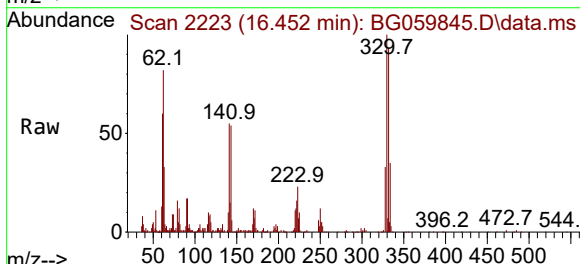
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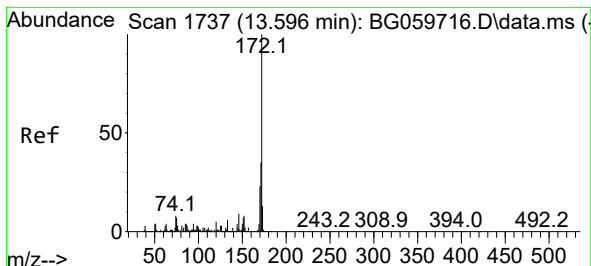
Tgt Ion:164 Resp: 95752
Ion Ratio Lower Upper
164 100
162 102.4 73.3 109.9
160 41.3 34.1 51.1



#42
2,4,6-Tribromophenol
Concen: 107.259 ng
RT: 16.452 min Scan# 2223
Delta R.T. -0.006 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56

Tgt Ion:330 Resp: 116529
Ion Ratio Lower Upper
330 100
332 100.2 73.3 109.9
141 65.2 52.1 78.1

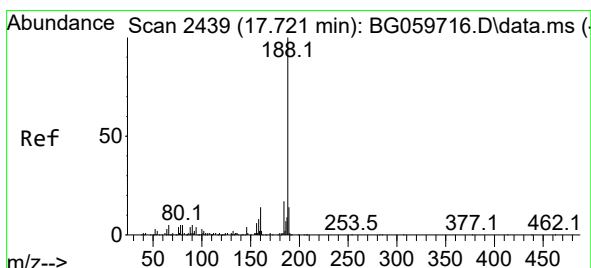
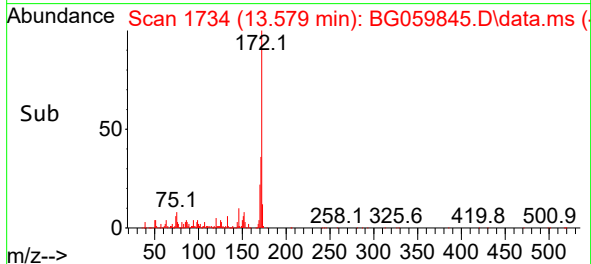
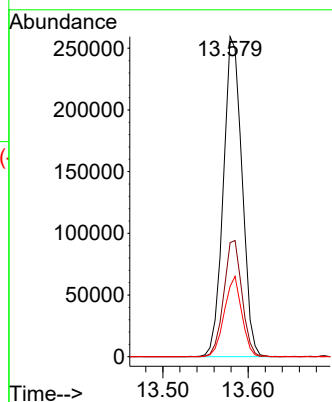
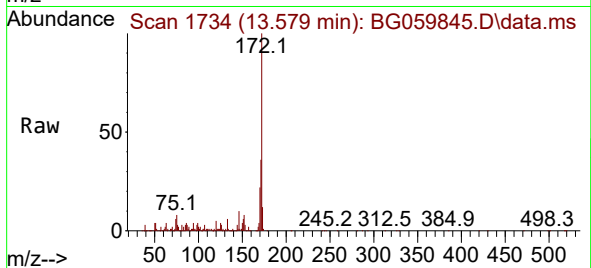




#45
2-Fluorobiphenyl
Concen: 55.627 ng
RT: 13.579 min Scan# 1734
Delta R.T. -0.017 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56

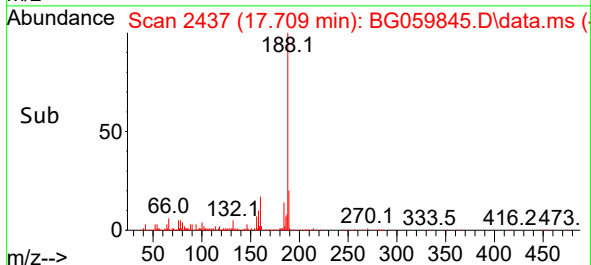
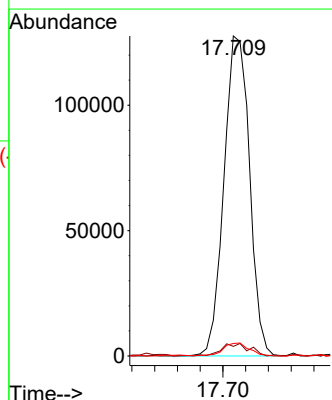
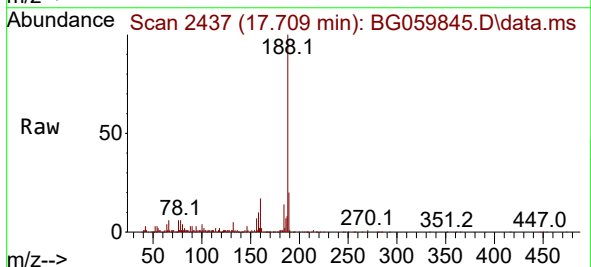
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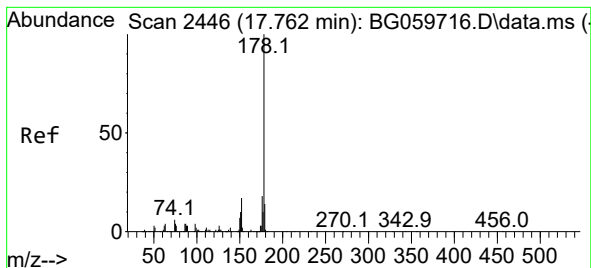
Tgt Ion:172 Resp: 395709
Ion Ratio Lower Upper
172 100
171 35.6 27.7 41.5
170 22.0 18.4 27.6



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.709 min Scan# 2437
Delta R.T. -0.011 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56

Tgt Ion:188 Resp: 199225
Ion Ratio Lower Upper
188 100
94 3.0 3.0 4.4
80 3.9 4.2 6.4





#71

Phenanthrene

Concen: 13.915 ng

RT: 17.756 min Scan# 2446

Delta R.T. -0.006 min

Lab File: BG059845.D

Acq: 23 Nov 2023 9:56

Instrument :

BNA_G

ClientSampleId :

SOIL-2-1115

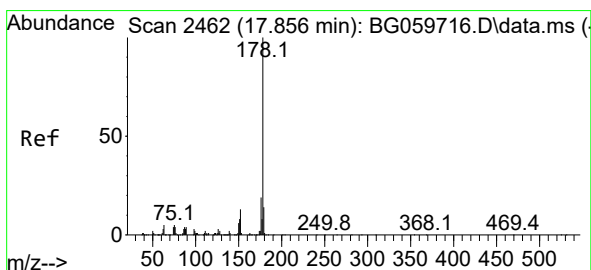
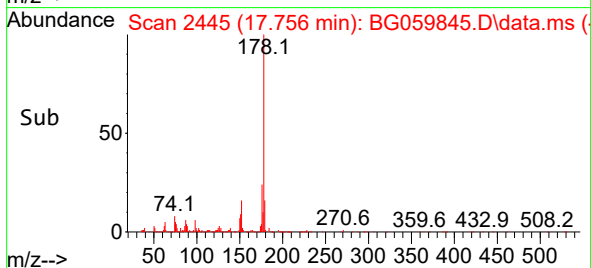
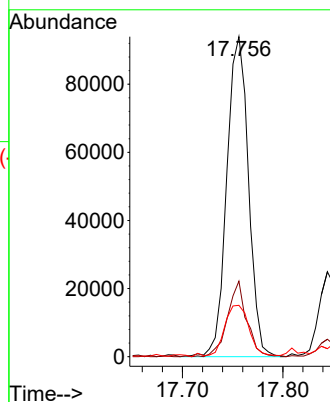
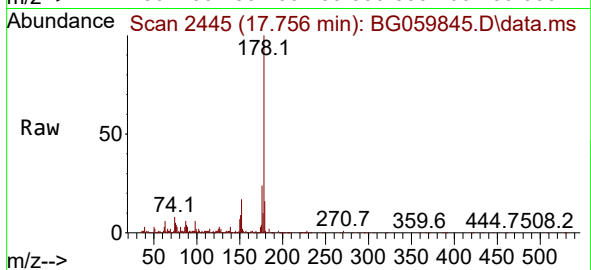
Tgt Ion:178 Resp: 140948

Ion Ratio Lower Upper

178 100

176 23.6 14.5 21.7#

179 16.1 11.2 16.8



#72

Anthracene

Concen: 3.435 ng

RT: 17.844 min Scan# 2460

Delta R.T. -0.011 min

Lab File: BG059845.D

Acq: 23 Nov 2023 9:56

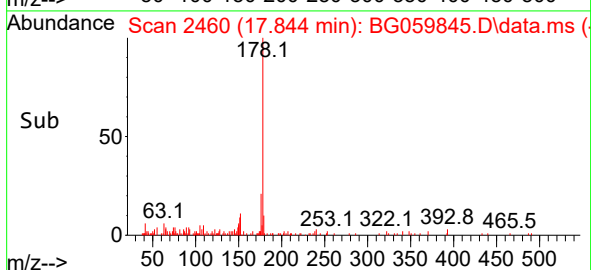
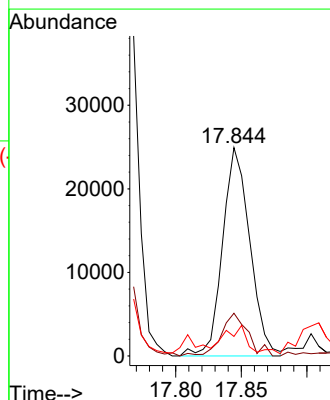
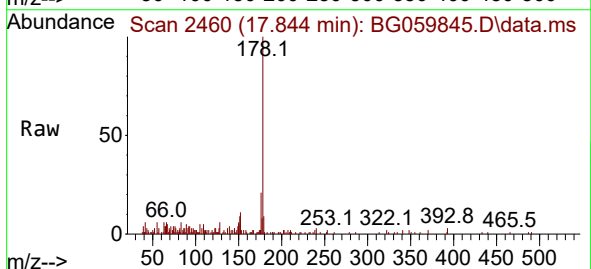
Tgt Ion:178 Resp: 36149

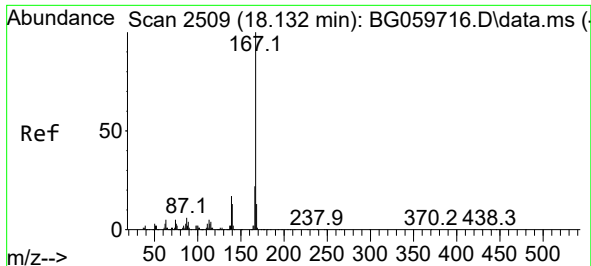
Ion Ratio Lower Upper

178 100

176 20.5 15.0 22.4

179 9.4 11.5 17.3#

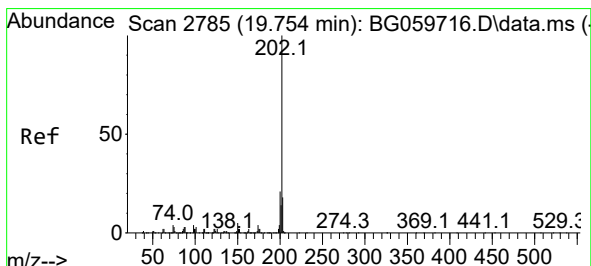
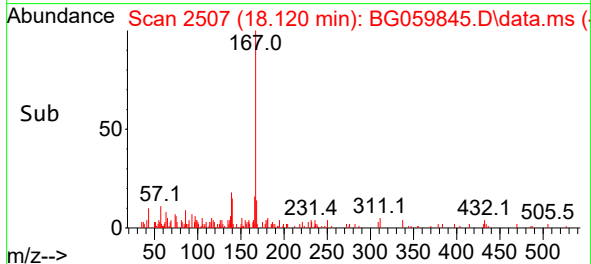
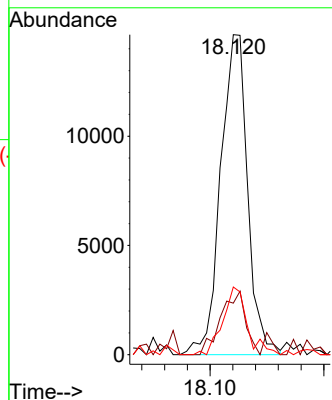
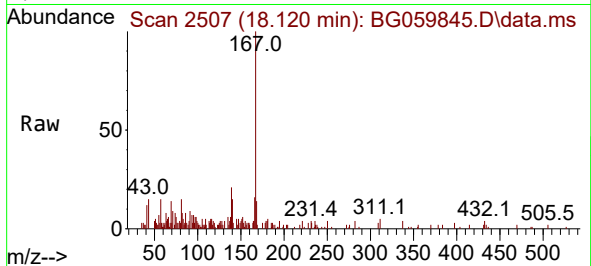




#73
 Carbazole
 Concen: 2.623 ng
 RT: 18.120 min Scan# 2507
 Delta R.T. -0.011 min
 Lab File: BG059845.D
 Acq: 23 Nov 2023 9:56

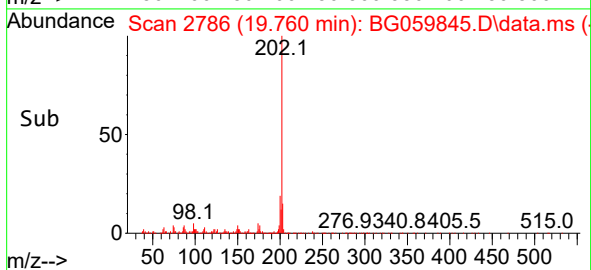
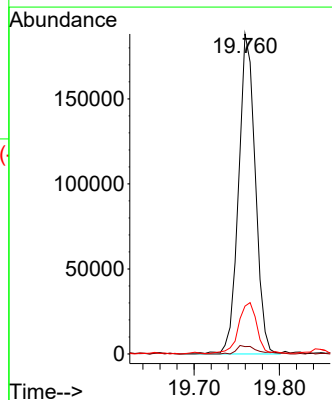
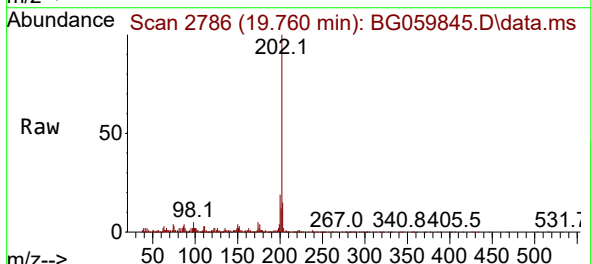
Instrument :
 BNA_G
 ClientSampleId :
 SOIL-2-1115

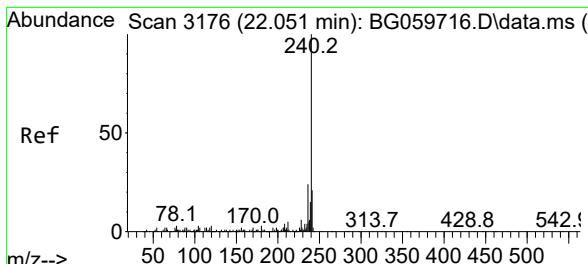
Tgt Ion:167 Resp: 24113
 Ion Ratio Lower Upper
 167 100
 166 16.1 17.4 26.0#
 139 21.2 13.2 19.8#



#75
 Fluoranthene
 Concen: 21.140 ng
 RT: 19.760 min Scan# 2786
 Delta R.T. 0.006 min
 Lab File: BG059845.D
 Acq: 23 Nov 2023 9:56

Tgt Ion:202 Resp: 256789
 Ion Ratio Lower Upper
 202 100
 101 2.3 0.0 22.7
 203 15.0 0.0 38.2

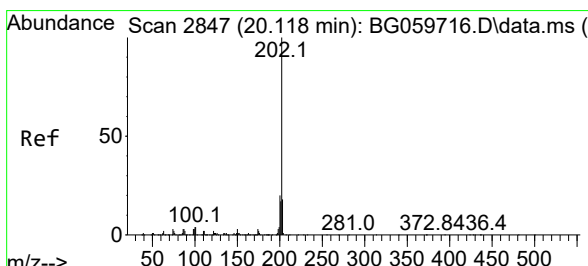
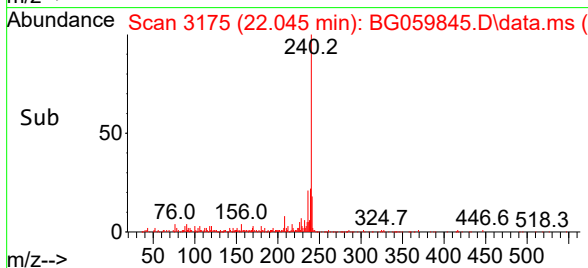
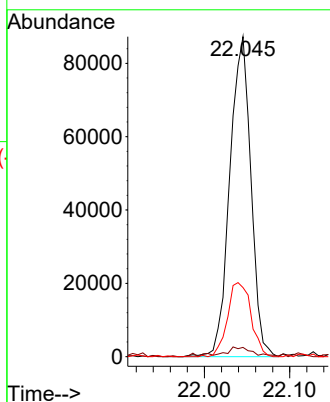
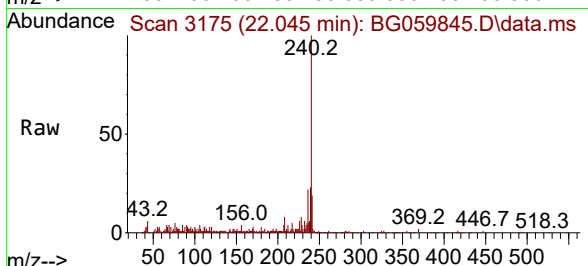




#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.045 min Scan# 3175
Delta R.T. -0.006 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56

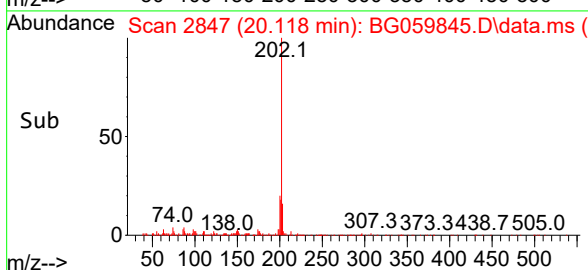
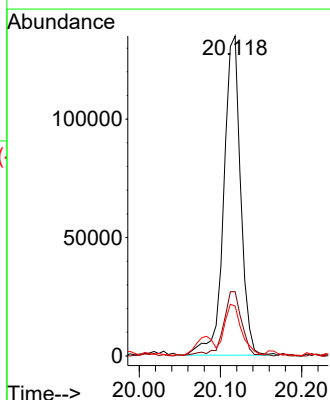
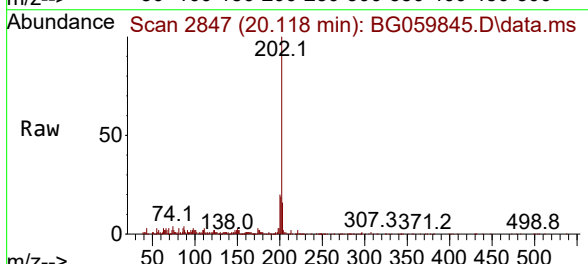
Instrument :
BNA_G
ClientSampleId :
SOIL-2-1115

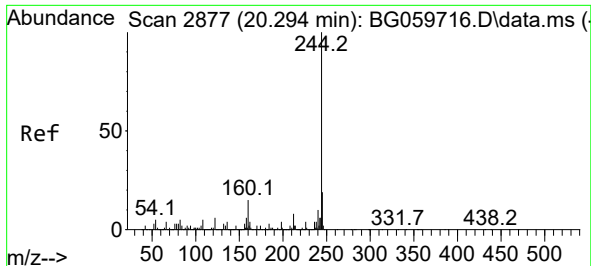
Tgt Ion:	240	Resp:	150000
Ion Ratio	Lower	Upper	
240	100		
120	2.9	2.2	3.2
236	21.6	19.4	29.2



#78
Pyrene
Concen: 19.115 ng
RT: 20.118 min Scan# 2847
Delta R.T. 0.000 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56

Tgt Ion:	202	Resp:	195089
Ion Ratio	Lower	Upper	
202	100		
200	20.1	16.2	24.4
203	15.6	14.0	21.0

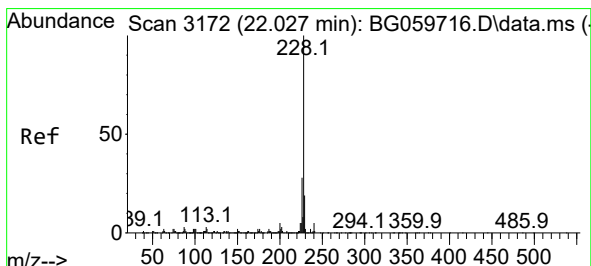
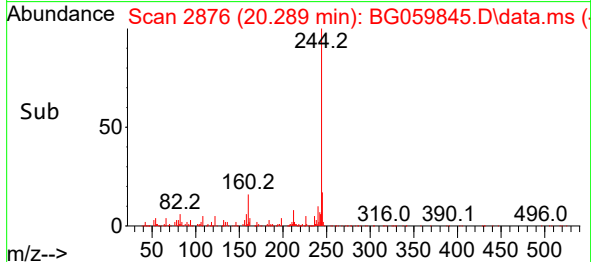
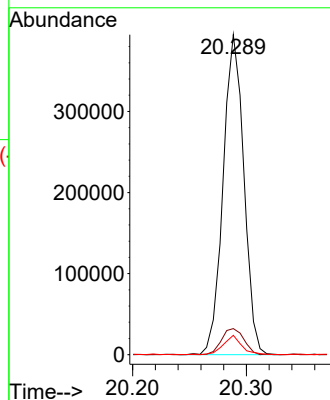
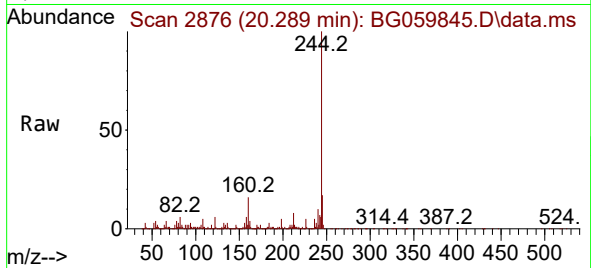




#79
 Terphenyl-d14
 Concen: 49.289 ng
 RT: 20.289 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BG059845.D
 Acq: 23 Nov 2023 9:56

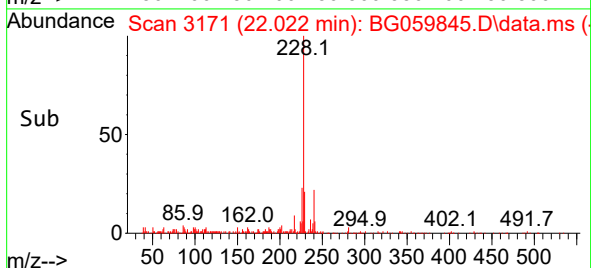
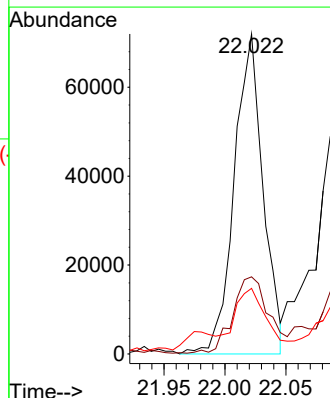
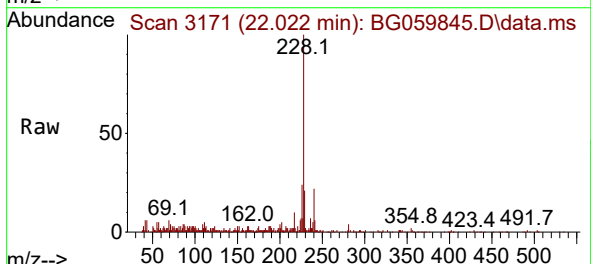
Instrument :
 BNA_G
 ClientSampleId :
 SOIL-2-1115

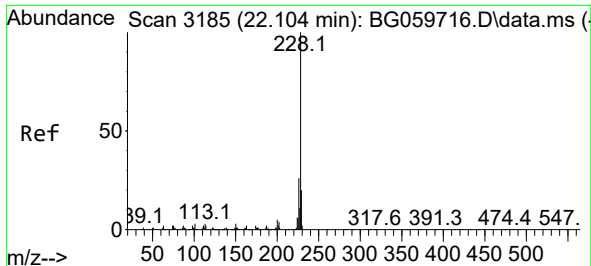
Tgt Ion:244 Resp: 500822
 Ion Ratio Lower Upper
 244 100
 212 8.1 6.6 10.0
 122 6.0 4.4 6.6



#81
 Benzo(a)anthracene
 Concen: 11.557 ng
 RT: 22.022 min Scan# 3171
 Delta R.T. -0.006 min
 Lab File: BG059845.D
 Acq: 23 Nov 2023 9:56

Tgt Ion:228 Resp: 118613
 Ion Ratio Lower Upper
 228 100
 226 24.1 22.1 33.1
 229 20.5 14.9 22.3

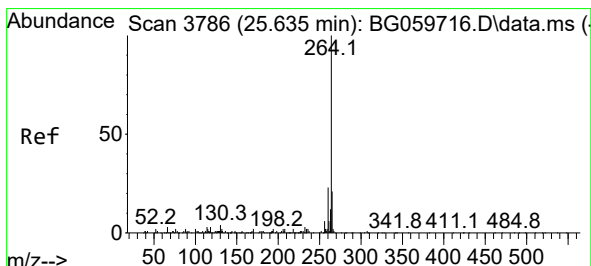
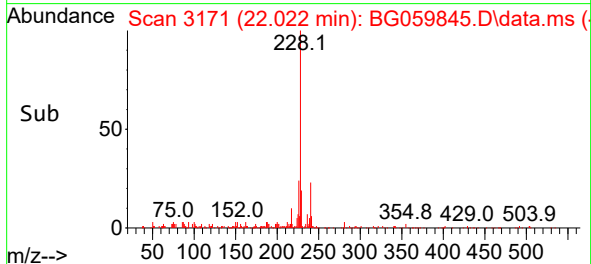
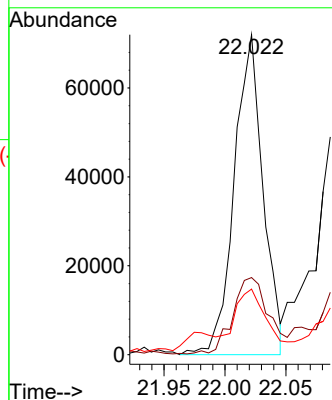
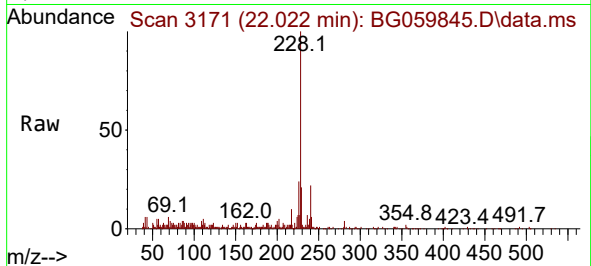




#83
Chrysene
Concen: 12.607 ng
RT: 22.022 min Scan# 3185
Delta R.T. -0.082 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56

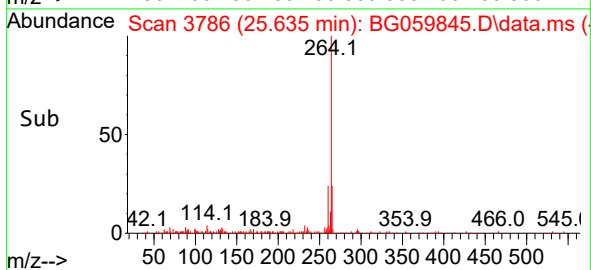
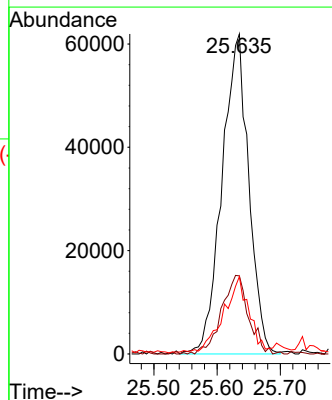
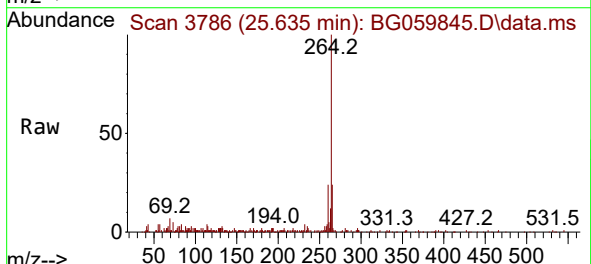
Instrument :
BNA_G
ClientSampleId :
SOIL-2-1115

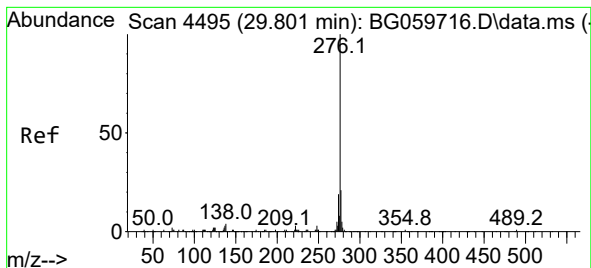
Tgt Ion:228 Resp: 118613
Ion Ratio Lower Upper
228 100
226 24.1 21.1 31.7
229 20.5 16.2 24.4



#86
Perylene-d12
Concen: 20.000 ng
RT: 25.635 min Scan# 3786
Delta R.T. 0.000 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56

Tgt Ion:264 Resp: 181938
Ion Ratio Lower Upper
264 100
260 24.4 18.5 27.7
265 24.2 17.0 25.6





#87

Indeno(1,2,3-cd)pyrene

Concen: 7.518 ng

RT: 29.772 min Scan# 4495

Delta R.T. -0.029 min

Lab File: BG059845.D

Acq: 23 Nov 2023 9:56

Instrument :

BNA_G

ClientSampleId :

SOIL-2-1115

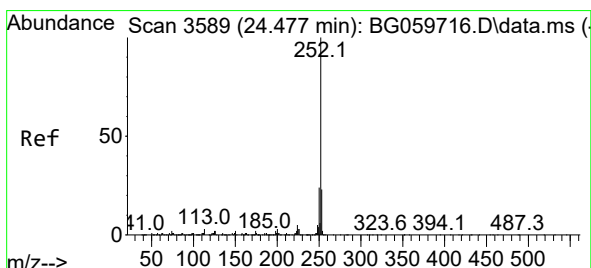
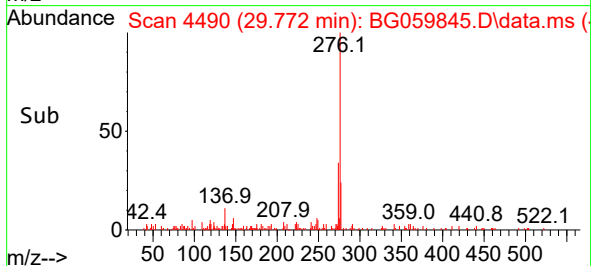
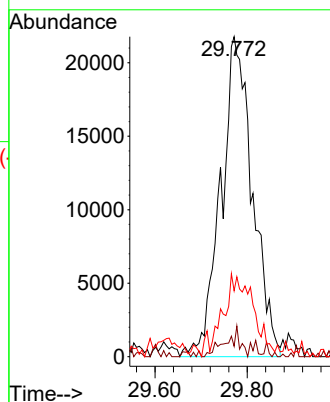
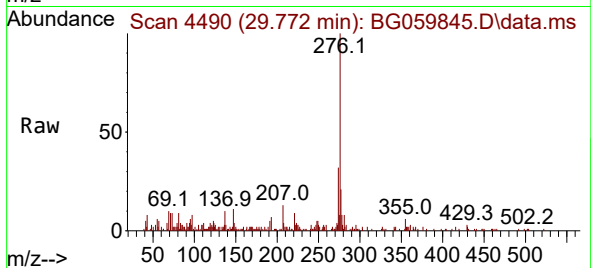
Tgt Ion:276 Resp: 103497

Ion Ratio Lower Upper

276 100

138 2.8 1.8 2.6#

277 12.9 9.8 14.6



#88

Benzo(b)fluoranthene

Concen: 17.865 ng

RT: 24.466 min Scan# 3587

Delta R.T. -0.011 min

Lab File: BG059845.D

Acq: 23 Nov 2023 9:56

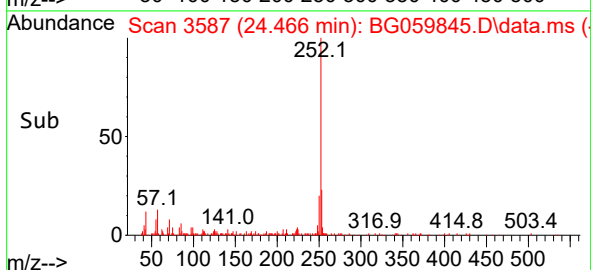
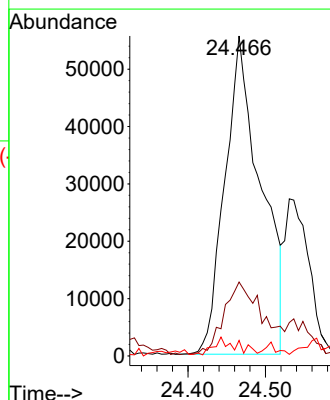
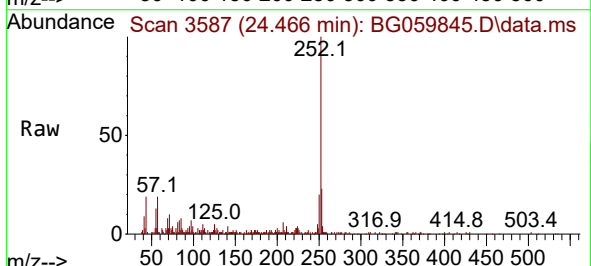
Tgt Ion:252 Resp: 178145

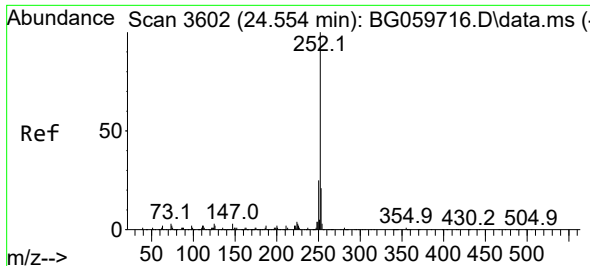
Ion Ratio Lower Upper

252 100

253 23.1 18.3 27.5

125 4.9 1.4 2.0#

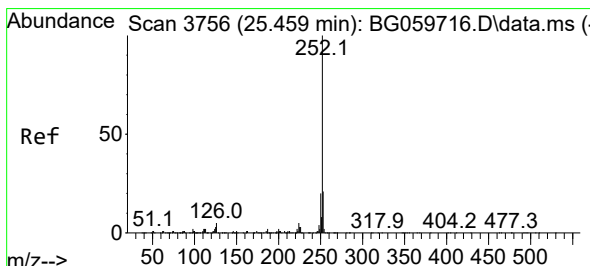
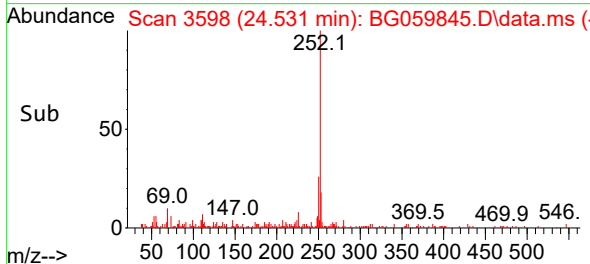
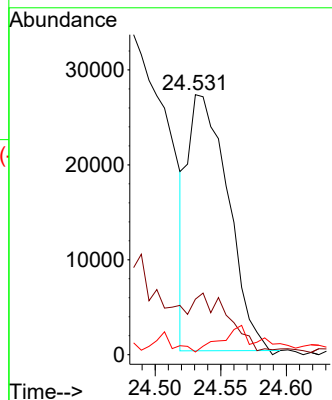
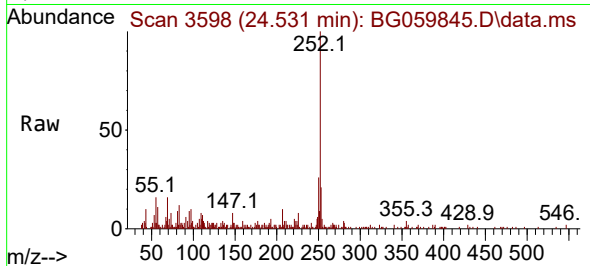




#89
Benzo(k)fluoranthene
Concen: 5.809 ng
RT: 24.531 min Scan# 31
Delta R.T. -0.023 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56

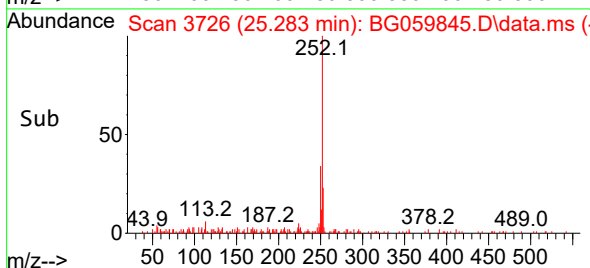
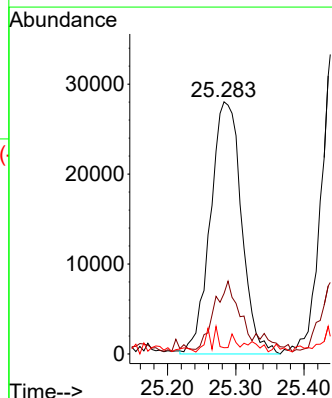
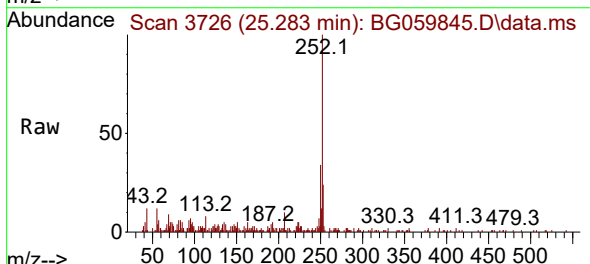
Instrument :
BNA_G
ClientSampleId :
SOIL-2-1115

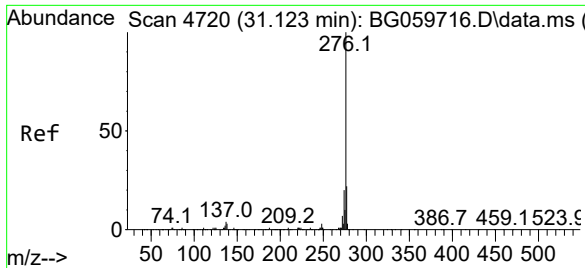
Tgt Ion:252 Resp: 57271
Ion Ratio Lower Upper
252 100
253 21.3 17.1 25.7
125 1.1 2.2 3.2#



#90
Benzo(a)pyrene
Concen: 8.336 ng
RT: 25.283 min Scan# 3726
Delta R.T. -0.176 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56

Tgt Ion:252 Resp: 88716
Ion Ratio Lower Upper
252 100
253 24.0 16.8 25.2
125 2.5 2.0 3.0





#92
 Benzo(g,h,i)perylene
 Concen: 8.583 ng
 RT: 31.088 min Scan# 41
 Delta R.T. -0.035 min
 Lab File: BG059845.D
 Acq: 23 Nov 2023 9:56

Instrument :
 BNA_G
 ClientSampleId :
 SOIL-2-1115

Tgt Ion:276 Resp: 94855
 Ion Ratio Lower Upper
 276 100
 277 15.6 17.3 25.9#
 138 3.4 2.6 4.0

