

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG042424\
 Data File : BG061025.D
 Acq On : 24 Apr 2024 14:42
 Operator : MA/JU
 Sample : P2228-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 EXCAVATION-SOIL

Quant Time: Apr 24 15:28:54 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG042024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 22 04:22:00 2024
 Response via : Initial Calibration

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

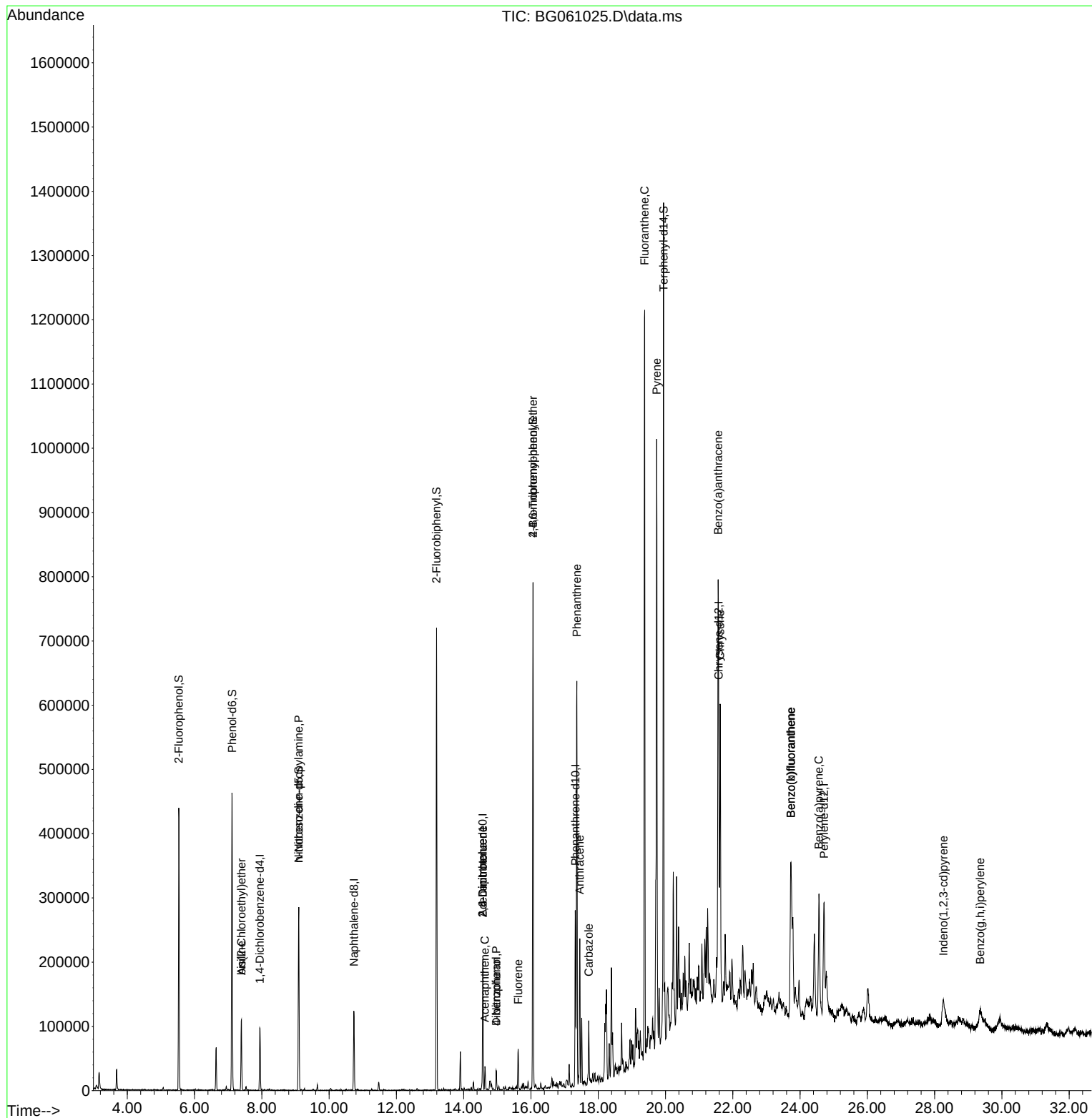
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.941	152	26376	20.000	ng	0.00
21) Naphthalene-d8	10.738	136	92696	20.000	ng	0.00
39) Acenaphthene-d10	14.569	164	73909	20.000	ng	0.00
64) Phenanthrene-d10	17.319	188	174523	20.000	ng	0.00
76) Chrysene-d12	21.584	240	179970	20.000	ng	0.00
86) Perylene-d12	24.710	264	225475	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.532	112	157181	120.541	ng	0.00
7) Phenol-d6	7.119	99	209787	108.432	ng	0.01
23) Nitrobenzene-d5	9.099	82	141858	68.757	ng	0.00
42) 2,4,6-Tribromophenol	16.061	330	166174	102.388	ng	0.00
45) 2-Fluorobiphenyl	13.194	172	363151	68.003	ng	0.00
79) Terphenyl-d14	19.945	244	687773	59.320	ng	0.00
Target Compounds						
						Qvalue
6) Aniline	7.395	93	34277	14.741	ng	# 48
11) bis(2-Chloroethyl)ether	7.395	93	34277	24.924	ng	# 15
19) n-Nitroso-di-n-propyla...	9.099	70	21977	15.242	ng	# 71
51) 2,6-Dinitrotoluene	14.569	165	9591	7.542	ng	# 16
52) Acenaphthene	14.633	154	12294	3.147	ng	92
55) Dibenzofuran	14.968	168	16714	2.478	ng	96
56) 4-Nitrophenol	14.968	139	7383	8.218	ng	# 1
57) 2,4-Dinitrotoluene	14.569	165	9591	5.237	ng	# 19
58) Fluorene	15.621	166	27929	4.906	ng	97
67) 4-Bromophenyl-phenylether	16.061	248	10234	4.443	ng	# 1
71) Phenanthrene	17.366	178	403076	45.248	ng	100
72) Anthracene	17.454	178	147872	16.117	ng	99
73) Carbazole	17.718	167	57939	7.604	ng	96
75) Fluoranthene	19.381	202	799440	67.621	ng	97
78) Pyrene	19.739	202	667057	54.435	ng	97
81) Benzo(a)anthracene	21.566	228	388652	30.716	ng	96
83) Chrysene	21.625	228	345484	28.679	ng	96
87) Indeno(1,2,3-cd)pyrene	28.265	276	97724	6.248	ng	# 87
88) Benzo(b)fluoranthene	23.729	252	334068	26.145	ng	97
89) Benzo(k)fluoranthene	23.729	252	334068	25.899	ng	95
90) Benzo(a)pyrene	24.563	252	242002	19.567	ng	96
92) Benzo(g,h,i)perylene	29.357	276	73502	5.801	ng	# 89

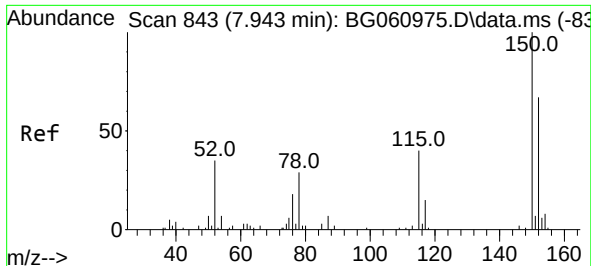
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG042424\
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EXCAVATION-SOIL

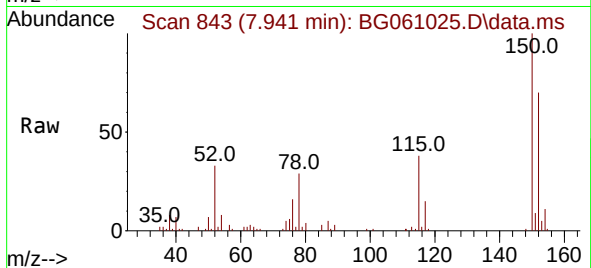
Quant Time: Apr 24 15:28:54 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG042024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 22 04:22:00 2024
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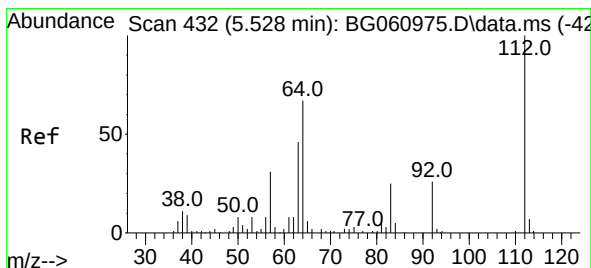
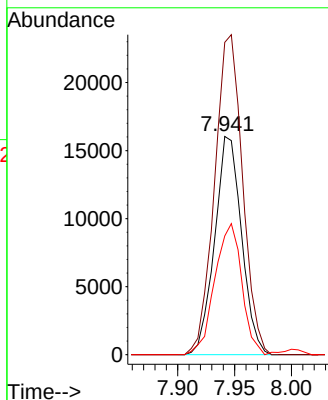
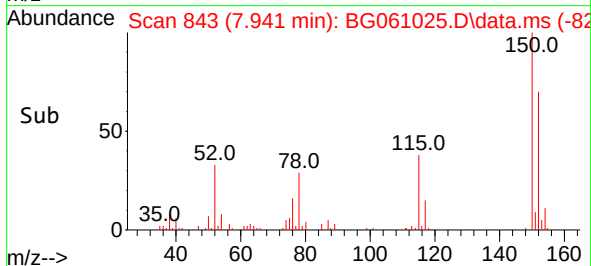


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.941 min Scan# 84
Delta R.T. -0.002 min
Lab File: BG061025.D
Acq: 24 Apr 2024 14:42

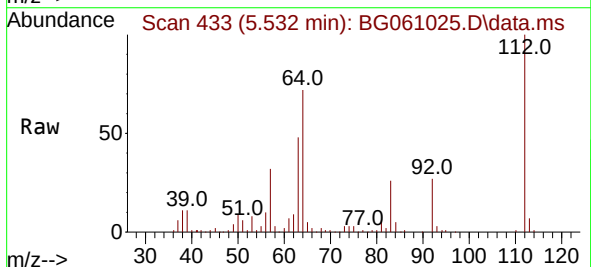
Instrument :
BNA_G
ClientSampleId :
EXCAVATION-SOIL



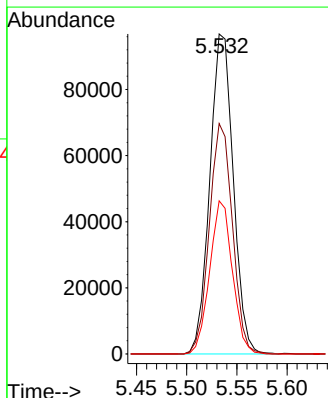
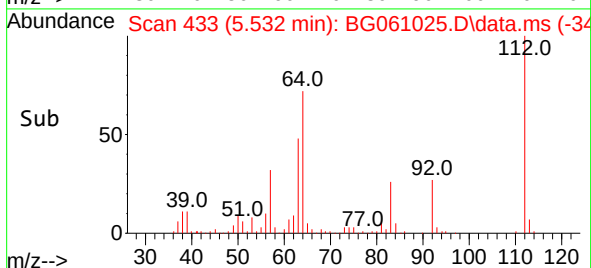
Tgt Ion:152 Resp: 26376
Ion Ratio Lower Upper
152 100
150 143.1 118.6 178.0
115 54.4 47.4 71.0

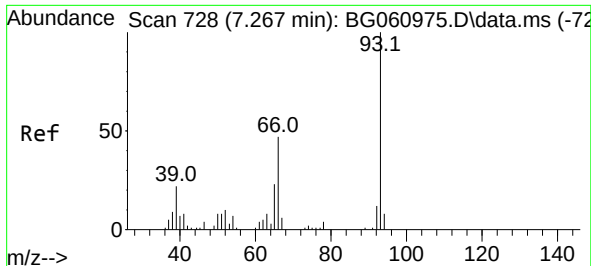


#5
2-Fluorophenol
Concen: 120.541 ng
RT: 5.532 min Scan# 433
Delta R.T. 0.004 min
Lab File: BG061025.D
Acq: 24 Apr 2024 14:42



Tgt Ion:112 Resp: 157181
Ion Ratio Lower Upper
112 100
64 72.0 53.7 80.5
63 47.9 37.0 55.6





#6

Aniline

Concen: 14.741 ng

RT: 7.395 min Scan# 71

Delta R.T. 0.128 min

Lab File: BG061025.D

Acq: 24 Apr 2024 14:42

Instrument :

BNA_G

ClientSampleId :

EXCAVATION-SOIL

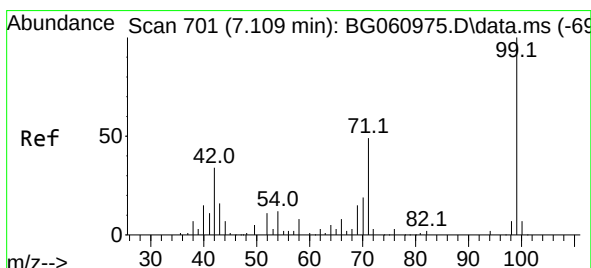
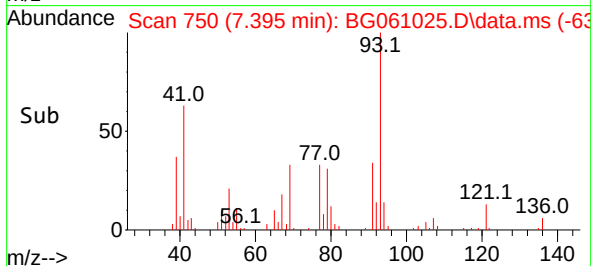
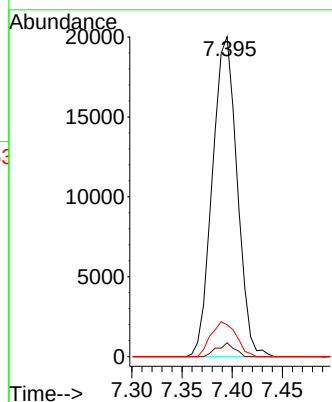
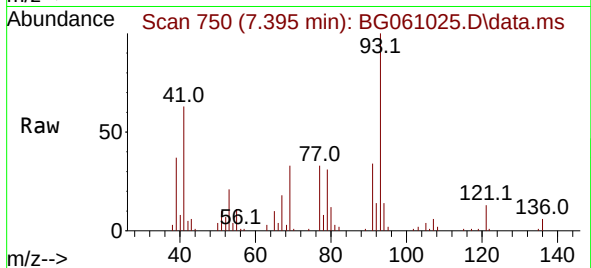
Tgt Ion: 93 Resp: 34277

Ion Ratio Lower Upper

93 100

66 4.3 37.9 56.9#

65 10.0 18.2 27.4#



#7

Phenol-d6

Concen: 108.432 ng

RT: 7.119 min Scan# 703

Delta R.T. 0.010 min

Lab File: BG061025.D

Acq: 24 Apr 2024 14:42

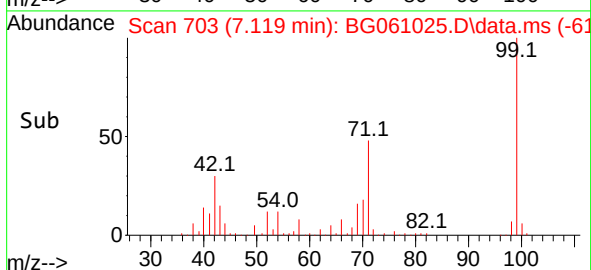
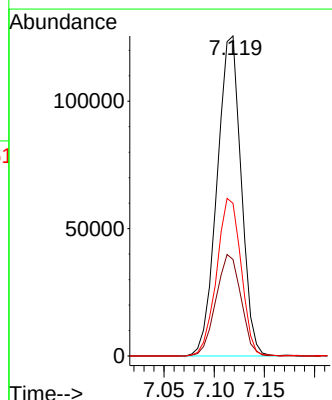
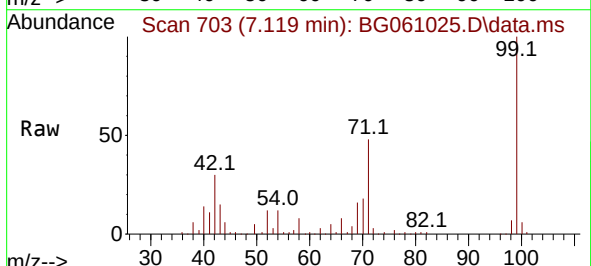
Tgt Ion: 99 Resp: 209787

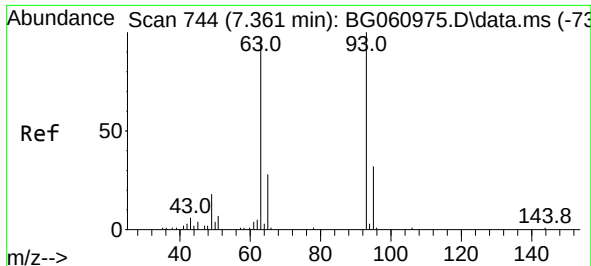
Ion Ratio Lower Upper

99 100

42 30.1 27.2 40.8

71 47.7 38.8 58.2

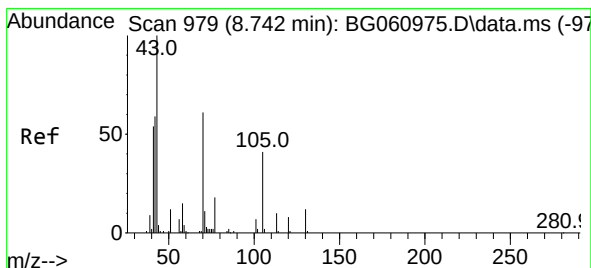
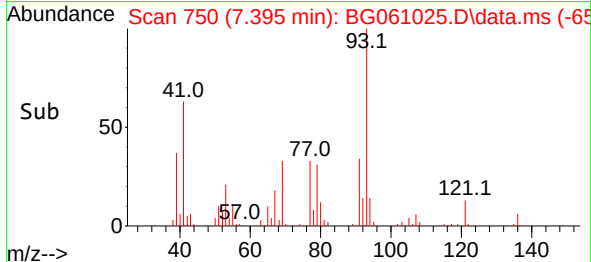
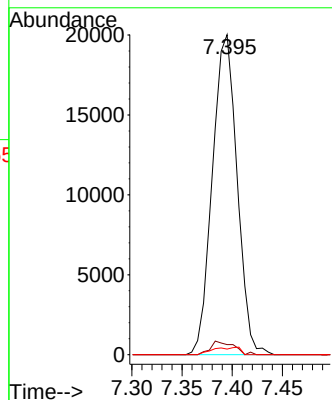
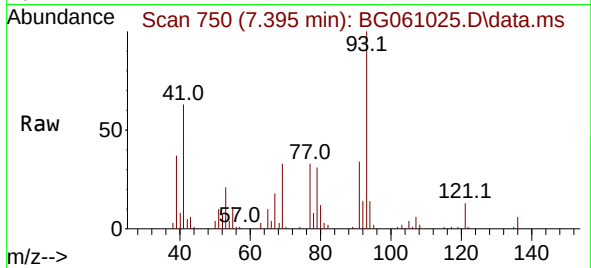




#11
bis(2-Chloroethyl)ether
Concen: 24.924 ng
RT: 7.395 min Scan# 71
Delta R.T. 0.034 min
Lab File: BG061025.D
Acq: 24 Apr 2024 14:42

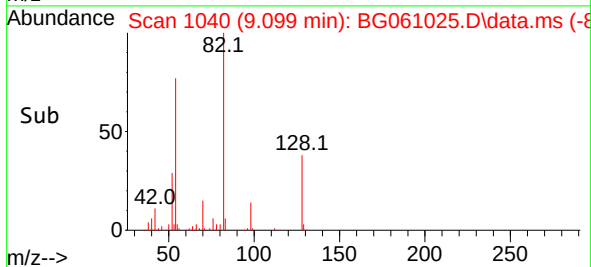
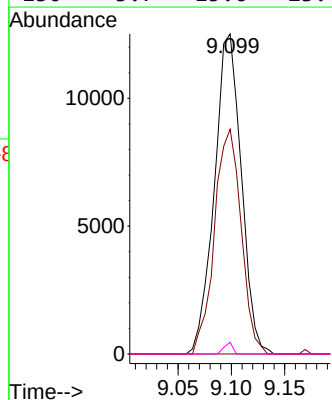
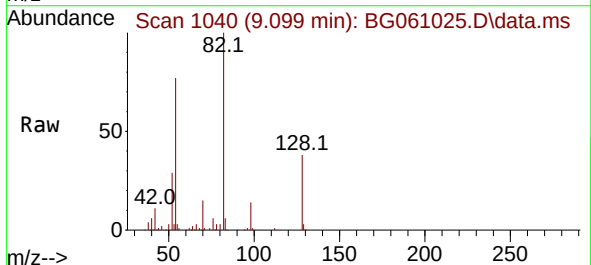
Instrument :
BNA_G
ClientSampleId :
EXCAVATION-SOIL

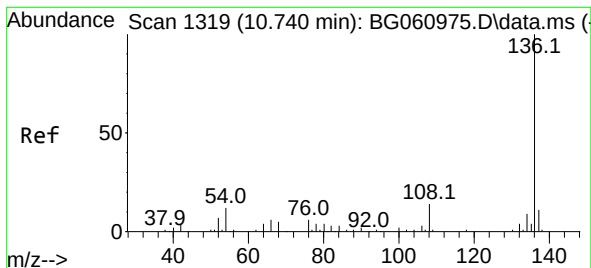
Tgt Ion: 93 Resp: 34277
Ion Ratio Lower Upper
93 100
63 3.2 75.6 115.6#
95 1.7 12.1 52.1#



#19
n-Nitroso-di-n-propylamine
Concen: 15.242 ng
RT: 9.099 min Scan# 1040
Delta R.T. 0.357 min
Lab File: BG061025.D
Acq: 24 Apr 2024 14:42

Tgt Ion: 70 Resp: 21977
Ion Ratio Lower Upper
70 100
42 70.2 78.0 117.0#
101 0.0 8.6 13.0#
130 3.7 15.6 23.4#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.738 min Scan# 11

Delta R.T. -0.002 min

Lab File: BG061025.D

Acq: 24 Apr 2024 14:42

Instrument :

BNA_G

ClientSampleId :

EXCAVATION-SOIL

Tgt Ion:136 Resp: 92696

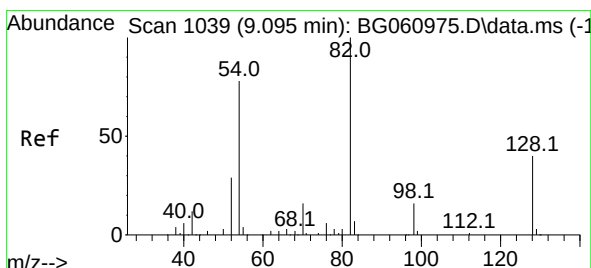
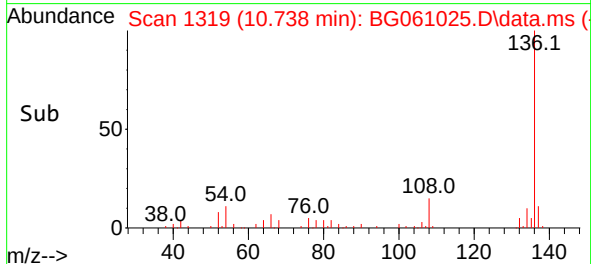
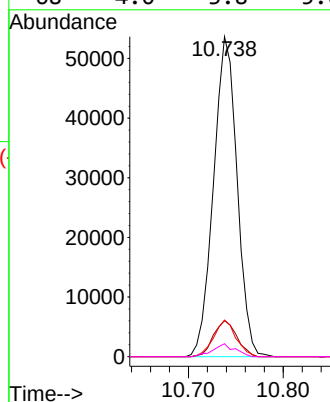
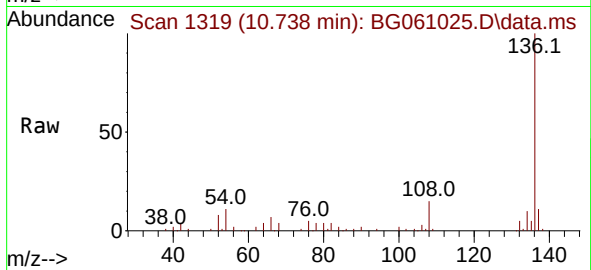
Ion Ratio Lower Upper

136 100

137 11.3 8.5 12.7

54 11.5 9.4 14.0

68 4.0 3.8 5.6



#23

Nitrobenzene-d5

Concen: 68.757 ng

RT: 9.099 min Scan# 1040

Delta R.T. 0.004 min

Lab File: BG061025.D

Acq: 24 Apr 2024 14:42

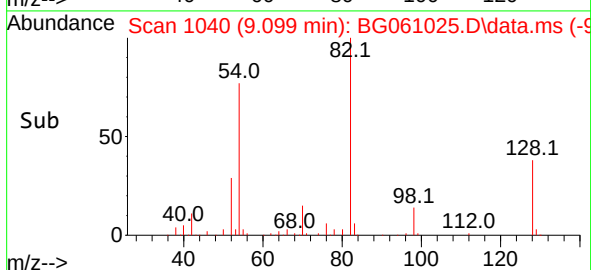
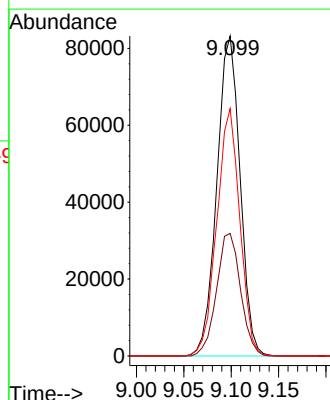
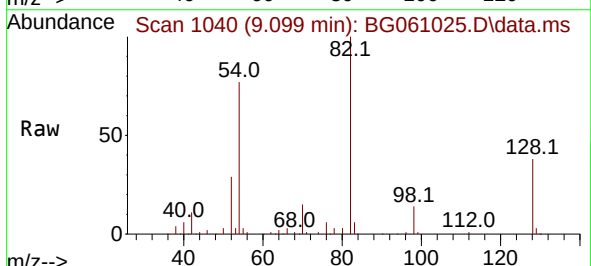
Tgt Ion: 82 Resp: 141858

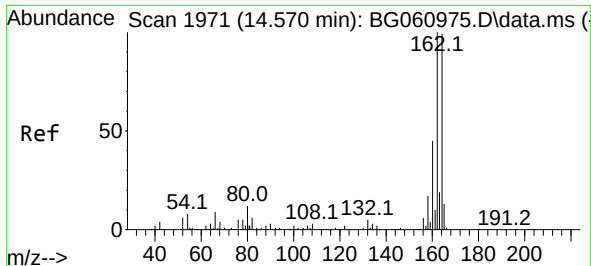
Ion Ratio Lower Upper

82 100

128 38.3 32.1 48.1

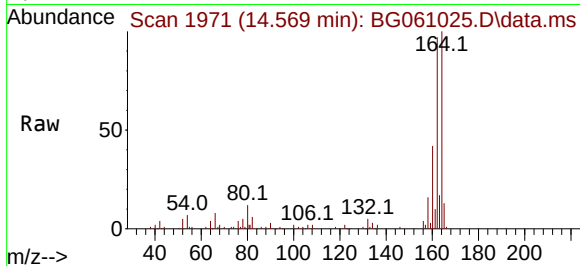
54 77.3 62.3 93.5



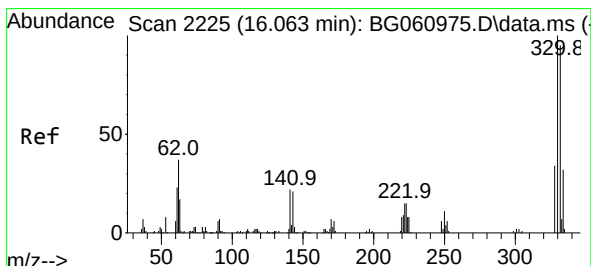
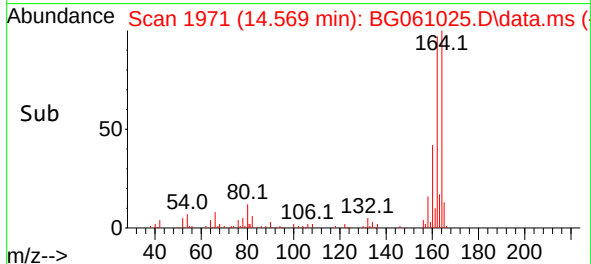
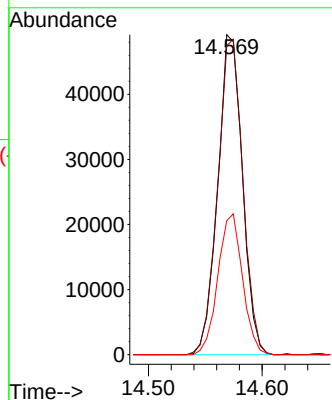


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.569 min Scan# 1971
Delta R.T. -0.002 min
Lab File: BG061025.D
Acq: 24 Apr 2024 14:42

Instrument :
BNA_G
ClientSampleId :
EXCAVATION-SOIL

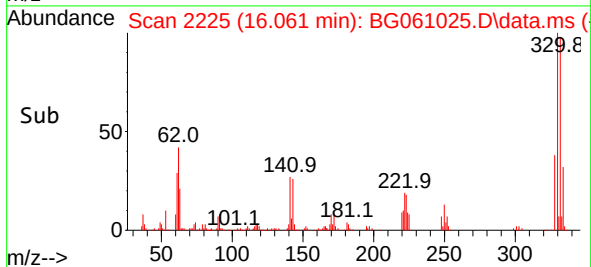
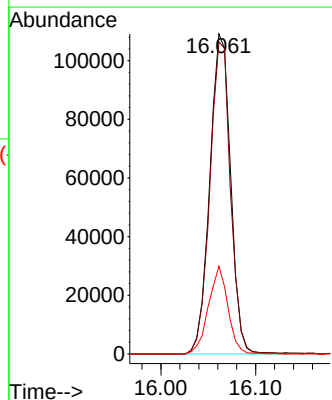
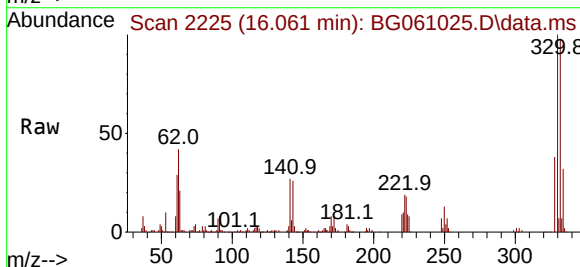


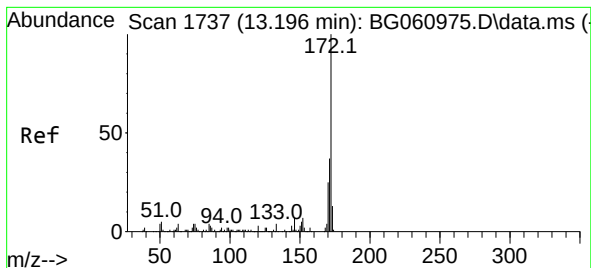
Tgt Ion:164 Resp: 73909
Ion Ratio Lower Upper
164 100
162 96.6 81.2 121.8
160 41.9 36.2 54.2



#42
2,4,6-Tribromophenol
Concen: 102.388 ng
RT: 16.061 min Scan# 2225
Delta R.T. -0.002 min
Lab File: BG061025.D
Acq: 24 Apr 2024 14:42

Tgt Ion:330 Resp: 166174
Ion Ratio Lower Upper
330 100
332 96.5 77.1 115.7
141 25.6 20.6 31.0





#45

2-Fluorobiphenyl

Concen: 68.003 ng

RT: 13.194 min Scan# 1

Delta R.T. -0.002 min

Lab File: BG061025.D

Acq: 24 Apr 2024 14:42

Instrument :

BNA_G

ClientSampleId :

EXCAVATION-SOIL

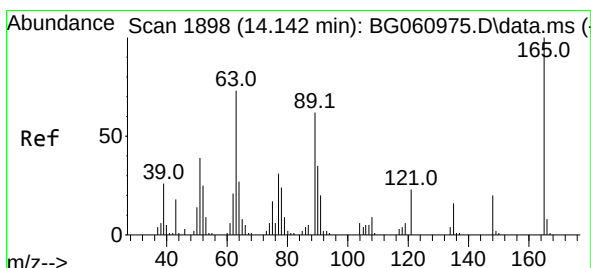
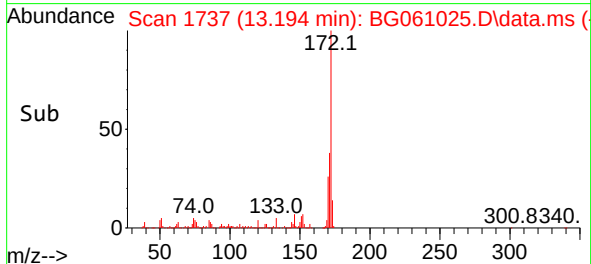
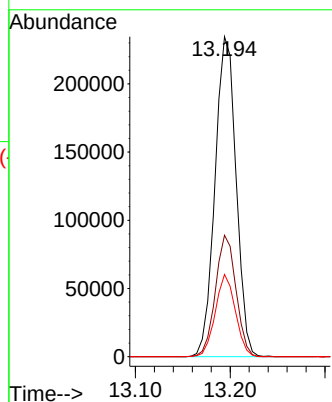
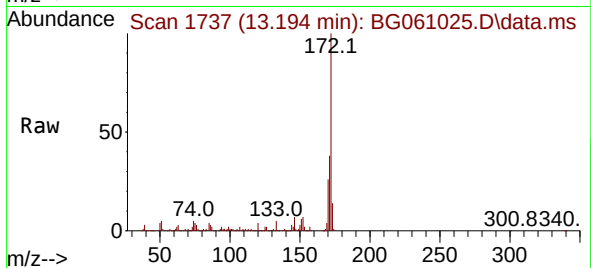
Tgt Ion:172 Resp: 363151

Ion Ratio Lower Upper

172 100

171 38.0 29.3 43.9

170 25.7 20.1 30.1



#51

2,6-Dinitrotoluene

Concen: 7.542 ng

RT: 14.569 min Scan# 1971

Delta R.T. 0.427 min

Lab File: BG061025.D

Acq: 24 Apr 2024 14:42

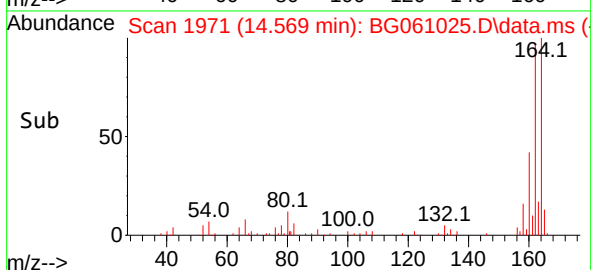
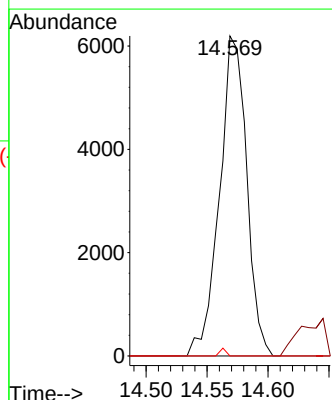
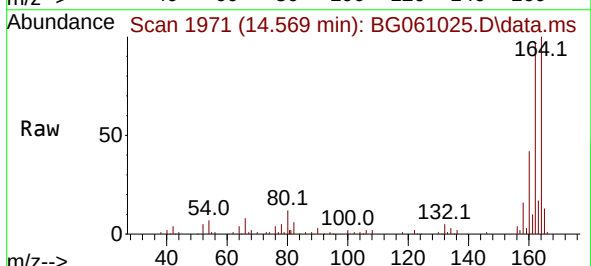
Tgt Ion:165 Resp: 9591

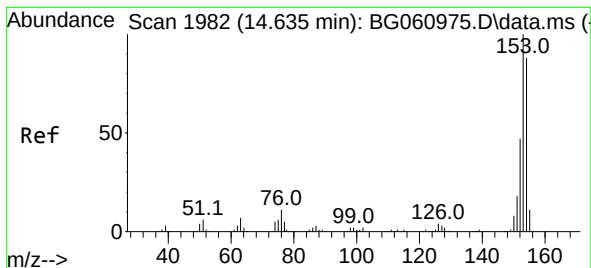
Ion Ratio Lower Upper

165 100

63 0.0 59.6 89.4#

89 0.0 49.4 74.0#





#52

Acenaphthene

Concen: 3.147 ng

RT: 14.633 min Scan# 1982

Delta R.T. -0.002 min

Lab File: BG061025.D

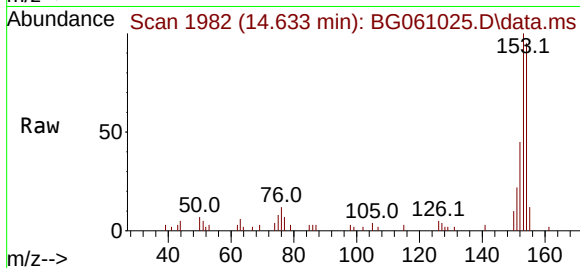
Acq: 24 Apr 2024 14:42

Instrument :

BNA_G

ClientSampleId :

EXCAVATION-SOIL



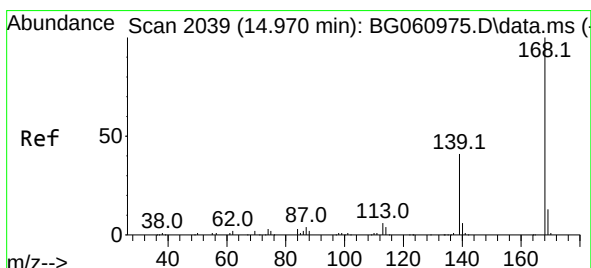
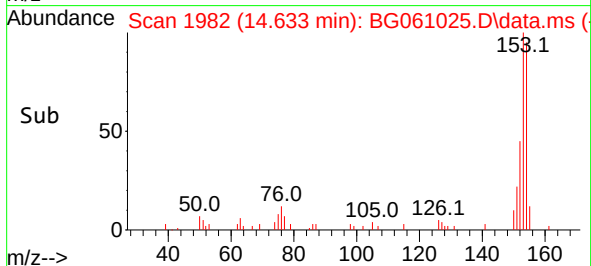
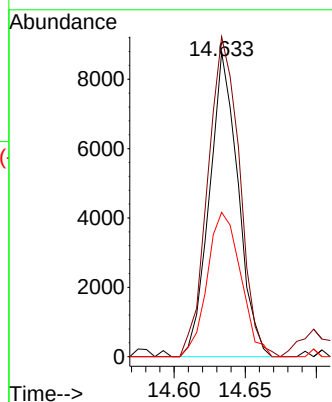
Tgt Ion:154 Resp: 12294

Ion Ratio Lower Upper

154 100

153 105.1 91.2 136.8

152 47.4 42.7 64.1



#55

Dibenzofuran

Concen: 2.478 ng

RT: 14.968 min Scan# 2039

Delta R.T. -0.002 min

Lab File: BG061025.D

Acq: 24 Apr 2024 14:42

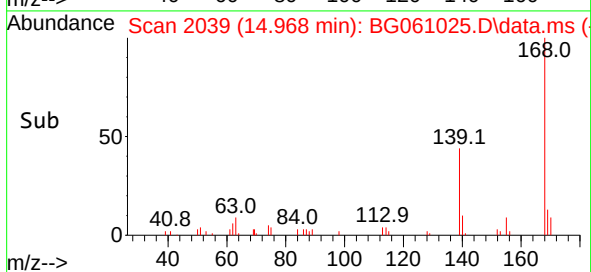
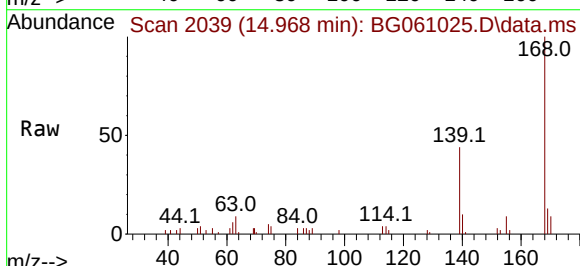
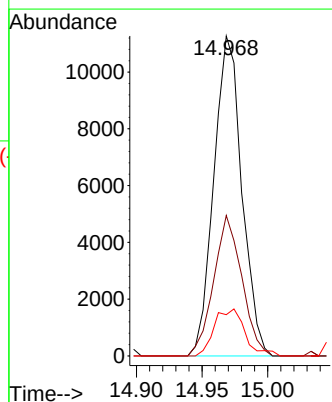
Tgt Ion:168 Resp: 16714

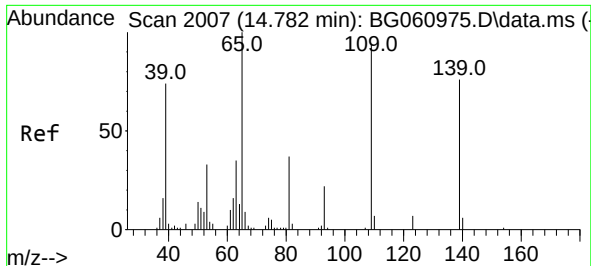
Ion Ratio Lower Upper

168 100

139 43.9 32.4 48.6

169 12.9 10.6 15.8

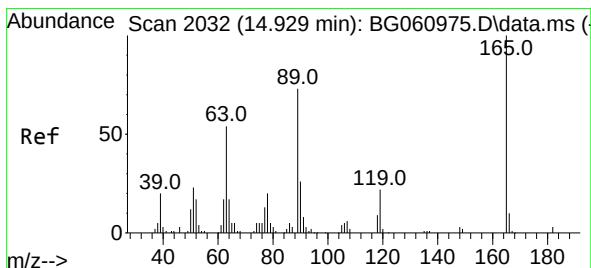
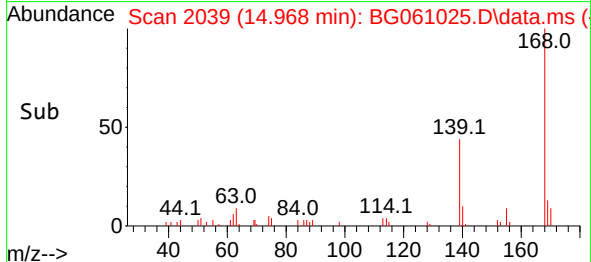
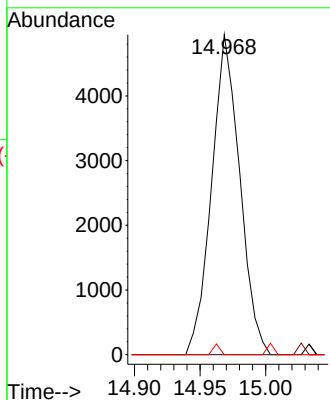
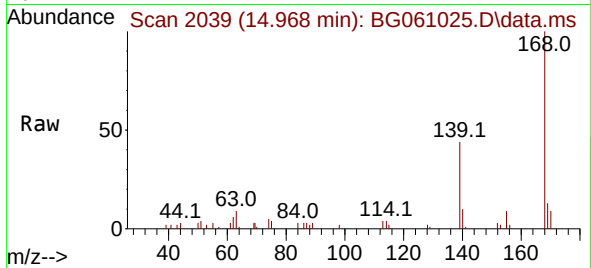




#56
4-Nitrophenol
Concen: 8.218 ng
RT: 14.968 min Scan# 20
Delta R.T. 0.186 min
Lab File: BG061025.D
Acq: 24 Apr 2024 14:42

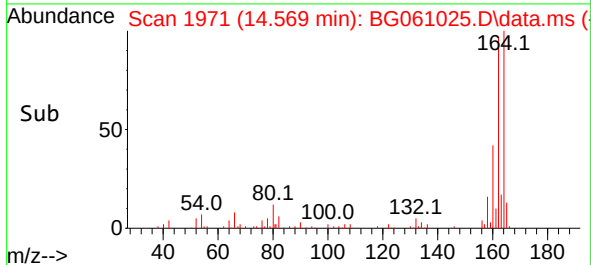
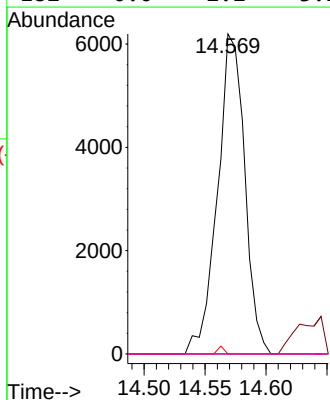
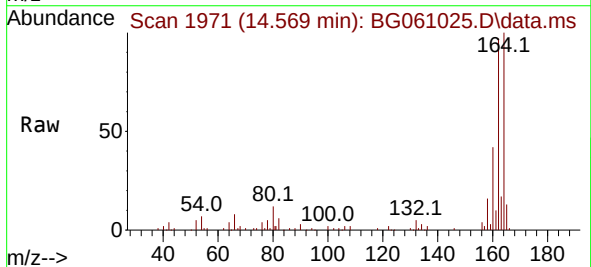
Instrument :
BNA_G
ClientSampleId :
EXCAVATION-SOIL

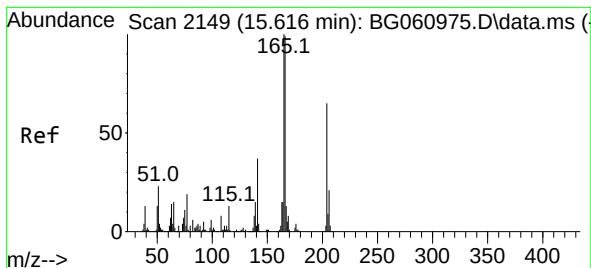
Tgt Ion:139 Resp: 7383
Ion Ratio Lower Upper
139 100
109 0.0 104.1 144.1#
65 0.0 112.0 152.0#



#57
2,4-Dinitrotoluene
Concen: 5.237 ng
RT: 14.569 min Scan# 1971
Delta R.T. -0.360 min
Lab File: BG061025.D
Acq: 24 Apr 2024 14:42

Tgt Ion:165 Resp: 9591
Ion Ratio Lower Upper
165 100
63 0.0 43.4 65.2#
89 0.0 58.4 87.6#
182 0.0 2.2 3.2#





#58

Fluorene

Concen: 4.906 ng

RT: 15.621 min Scan# 2149

Delta R.T. 0.004 min

Lab File: BG061025.D

Acq: 24 Apr 2024 14:42

Instrument :

BNA_G

ClientSampleId :

EXCAVATION-SOIL

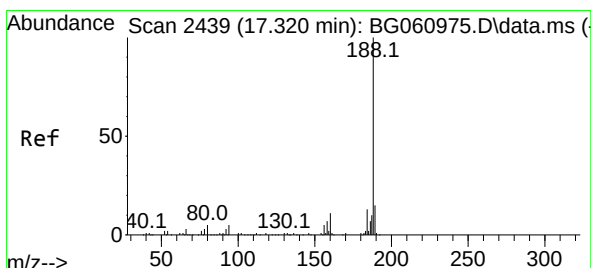
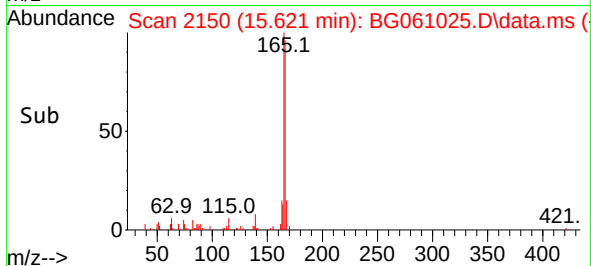
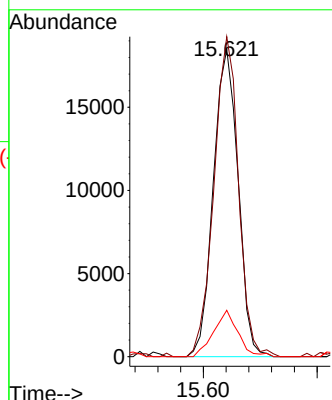
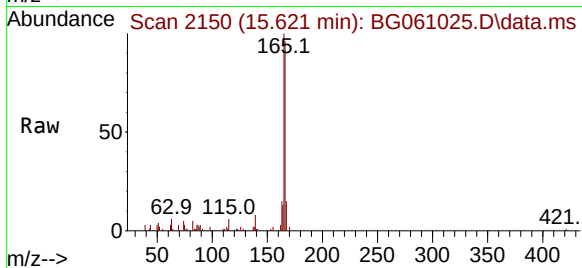
Tgt Ion:166 Resp: 27929

Ion Ratio Lower Upper

166 100

165 104.1 80.9 121.3

167 15.1 10.5 15.7



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.319 min Scan# 2439

Delta R.T. -0.002 min

Lab File: BG061025.D

Acq: 24 Apr 2024 14:42

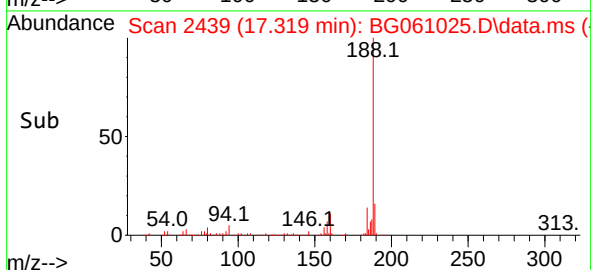
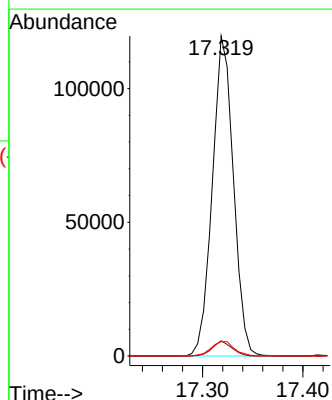
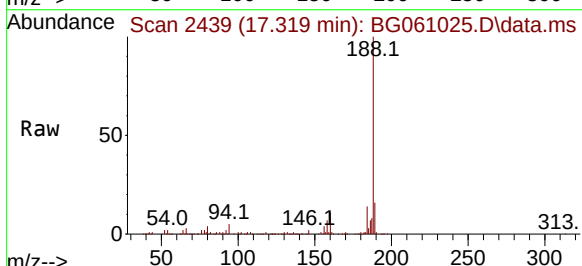
Tgt Ion:188 Resp: 174523

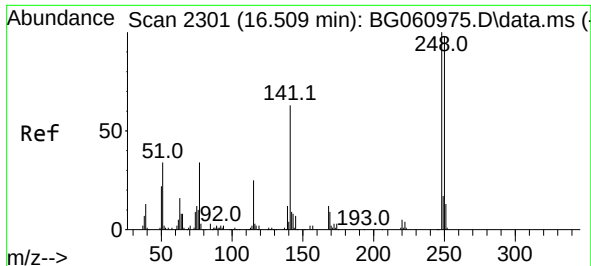
Ion Ratio Lower Upper

188 100

94 4.8 4.1 6.1

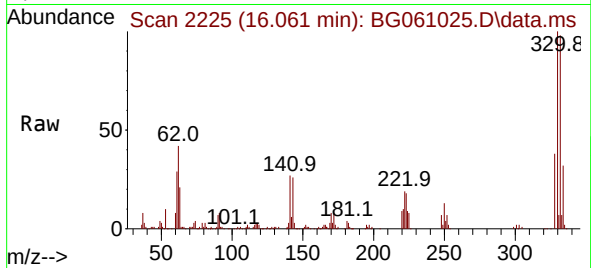
80 4.9 4.0 6.0



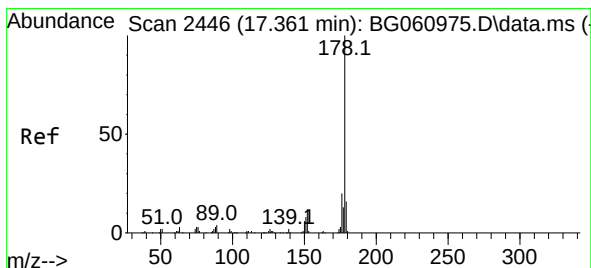
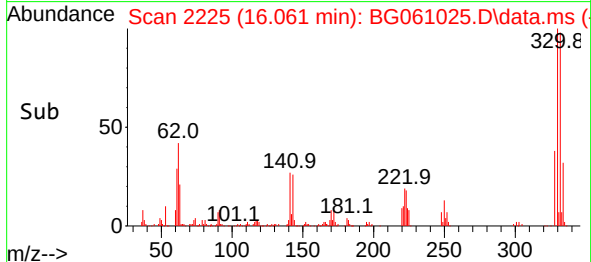
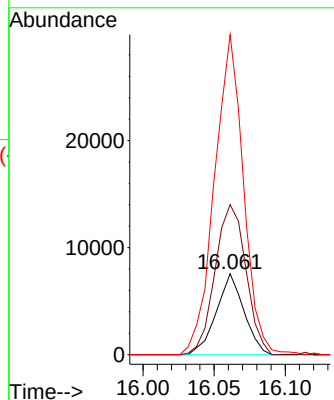


#67
4-Bromophenyl-phenylether
Concen: 4.443 ng
RT: 16.061 min Scan# 21
Delta R.T. -0.448 min
Lab File: BG061025.D
Acq: 24 Apr 2024 14:42

Instrument :
BNA_G
ClientSampleId :
EXCAVATION-SOIL

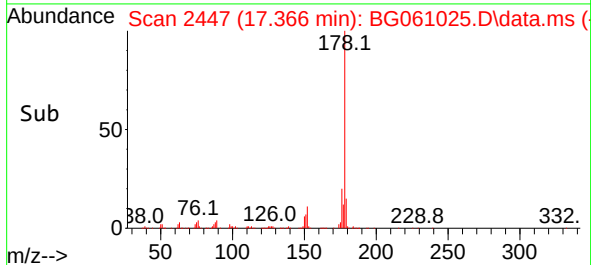
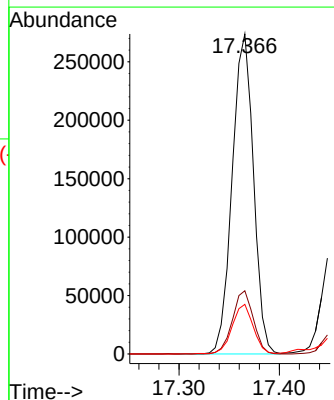
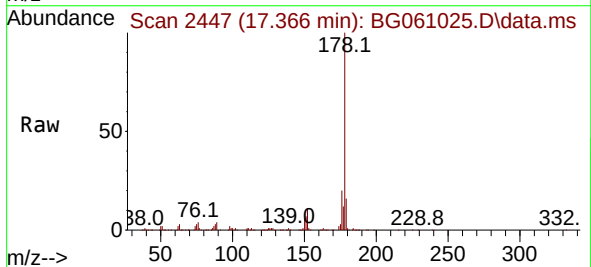


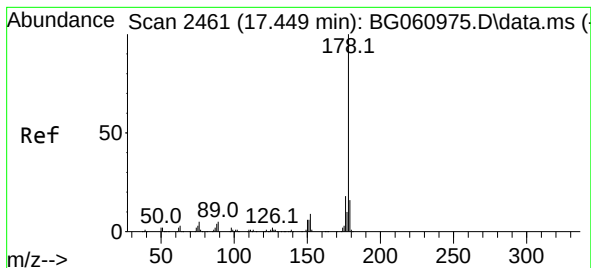
Tgt Ion:248 Resp: 10234
Ion Ratio Lower Upper
248 100
250 185.5 78.7 118.1#
141 395.4 50.4 75.6#



#71
Phenanthrene
Concen: 45.248 ng
RT: 17.366 min Scan# 2447
Delta R.T. 0.005 min
Lab File: BG061025.D
Acq: 24 Apr 2024 14:42

Tgt Ion:178 Resp: 403076
Ion Ratio Lower Upper
178 100
176 19.8 16.0 24.0
179 15.5 12.5 18.7





#72

Anthracene

Concen: 16.117 ng

RT: 17.454 min Scan# 2461

Delta R.T. 0.004 min

Lab File: BG061025.D

Acq: 24 Apr 2024 14:42

Instrument :

BNA_G

ClientSampleId :

EXCAVATION-SOIL

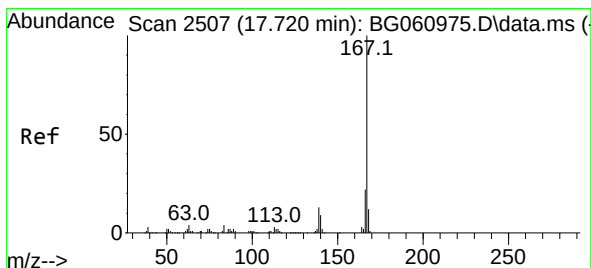
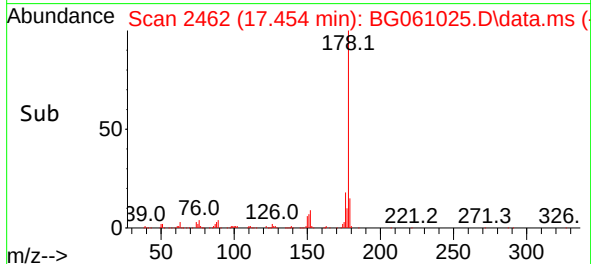
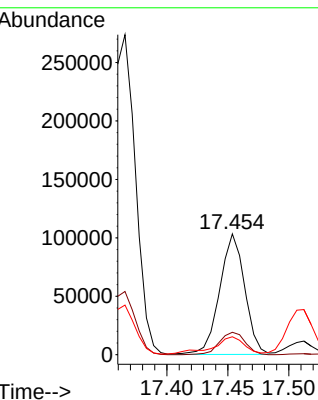
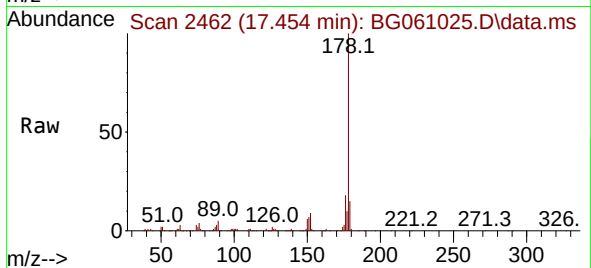
Tgt Ion:178 Resp: 147872

Ion Ratio Lower Upper

178 100

176 18.5 14.7 22.1

179 14.9 12.4 18.6



#73

Carbazole

Concen: 7.604 ng

RT: 17.718 min Scan# 2507

Delta R.T. -0.002 min

Lab File: BG061025.D

Acq: 24 Apr 2024 14:42

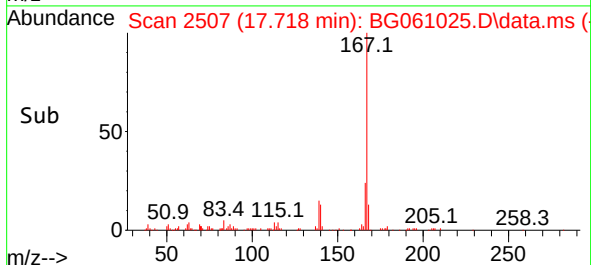
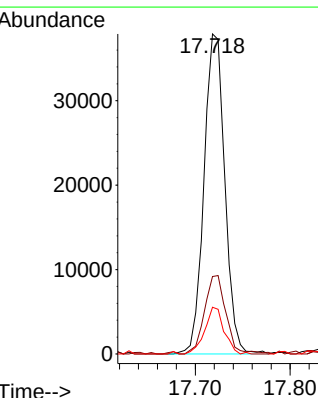
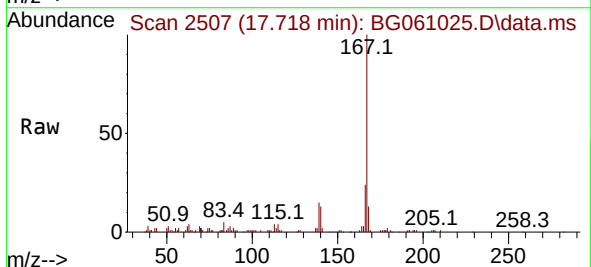
Tgt Ion:167 Resp: 57939

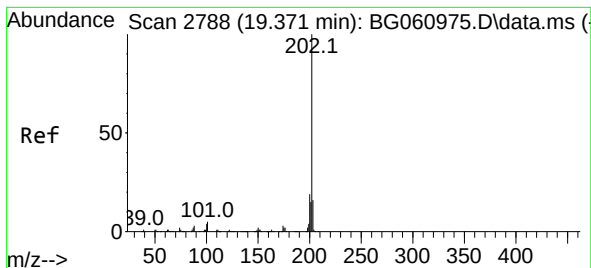
Ion Ratio Lower Upper

167 100

166 24.2 17.8 26.8

139 14.6 10.2 15.2





#75

Fluoranthene

Concen: 67.621 ng

RT: 19.381 min Scan# 21

Delta R.T. 0.010 min

Lab File: BG061025.D

Acq: 24 Apr 2024 14:42

Instrument :

BNA_G

ClientSampleId :

EXCAVATION-SOIL

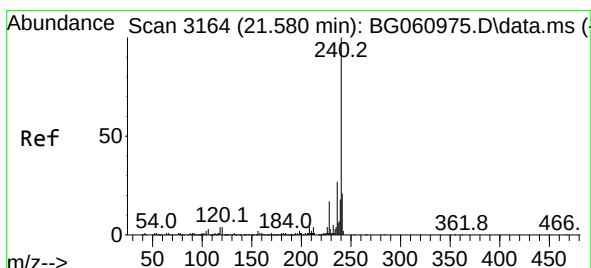
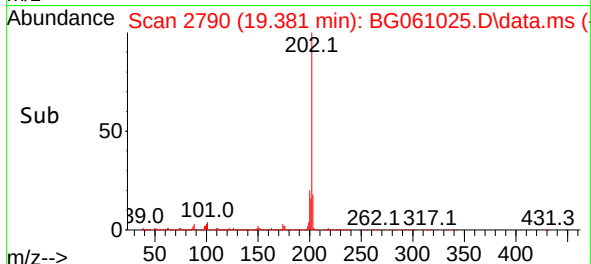
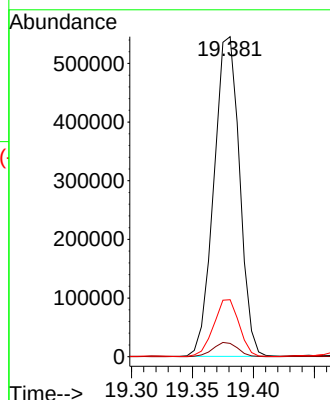
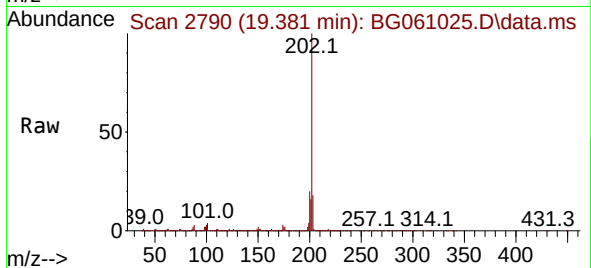
Tgt Ion:202 Resp: 799440

Ion Ratio Lower Upper

202 100

101 4.2 0.0 24.9

203 17.8 0.0 36.2



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.584 min Scan# 3165

Delta R.T. 0.004 min

Lab File: BG061025.D

Acq: 24 Apr 2024 14:42

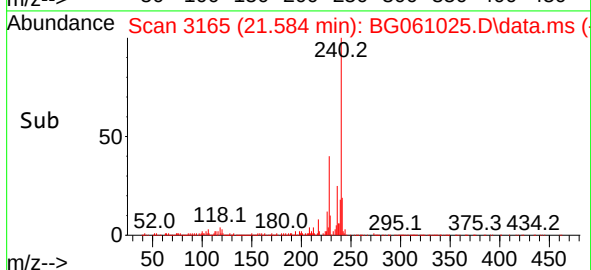
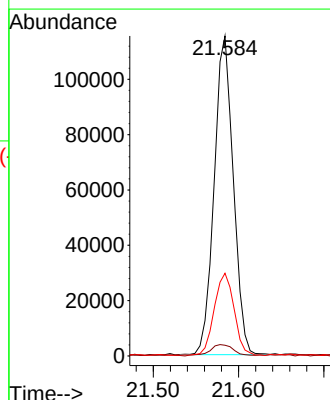
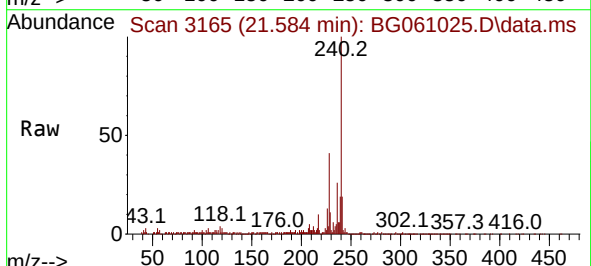
Tgt Ion:240 Resp: 179970

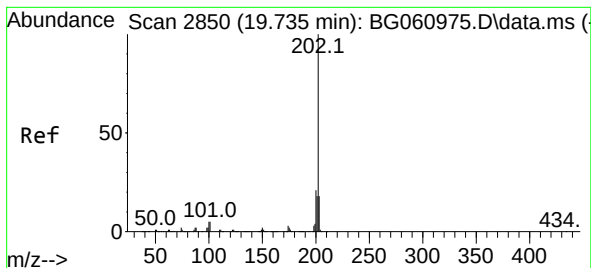
Ion Ratio Lower Upper

240 100

120 3.3 3.0 4.6

236 25.9 21.8 32.6





#78

Pyrene

Concen: 54.435 ng

RT: 19.739 min Scan# 2851

Delta R.T. 0.004 min

Lab File: BG061025.D

Acq: 24 Apr 2024 14:42

Instrument :

BNA_G

ClientSampleId :

EXCAVATION-SOIL

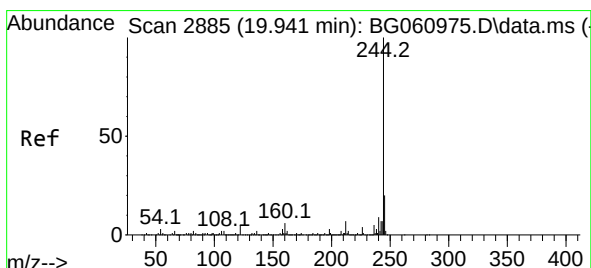
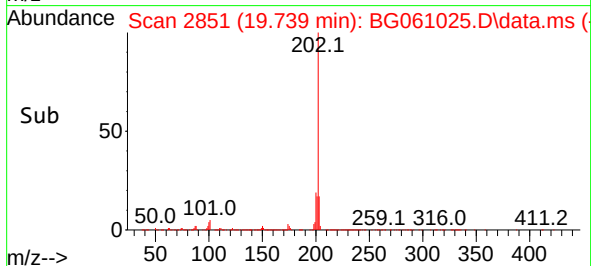
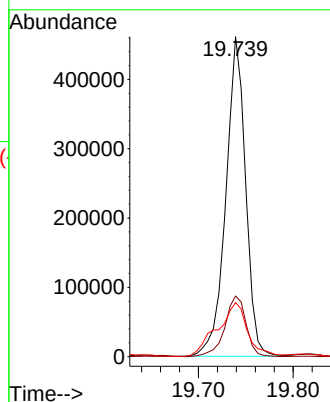
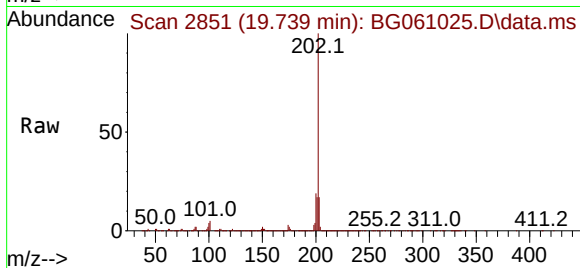
Tgt Ion:202 Resp: 667057

Ion Ratio Lower Upper

202 100

200 19.0 16.8 25.2

203 16.9 14.2 21.2



#79

Terphenyl-d14

Concen: 59.320 ng

RT: 19.945 min Scan# 2886

Delta R.T. 0.004 min

Lab File: BG061025.D

Acq: 24 Apr 2024 14:42

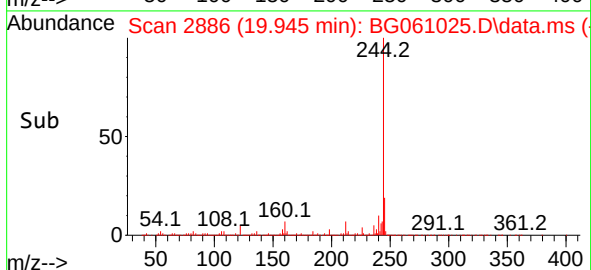
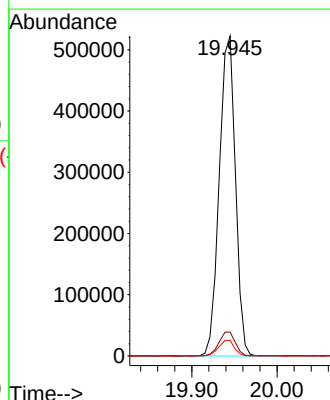
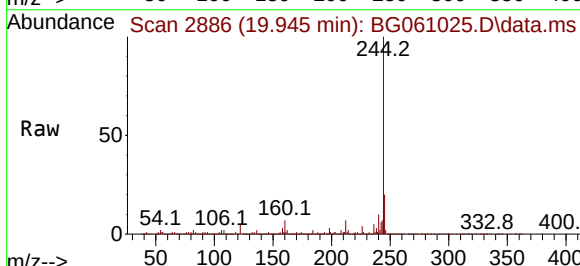
Tgt Ion:244 Resp: 687773

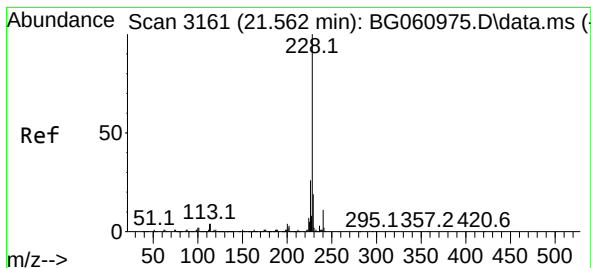
Ion Ratio Lower Upper

244 100

212 7.4 5.9 8.9

122 4.9 4.2 6.2





#81

Benzo(a)anthracene

Concen: 30.716 ng

RT: 21.566 min Scan# 3162

Delta R.T. 0.004 min

Lab File: BG061025.D

Acq: 24 Apr 2024 14:42

Instrument :

BNA_G

ClientSampleId :

EXCAVATION-SOIL

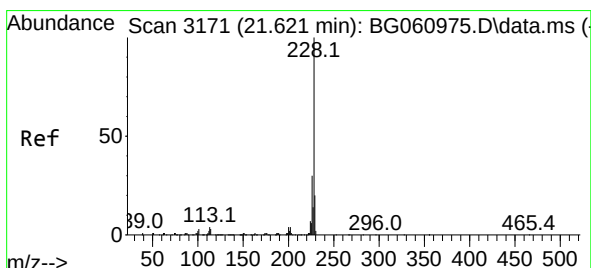
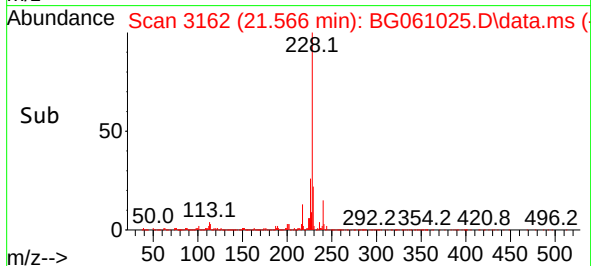
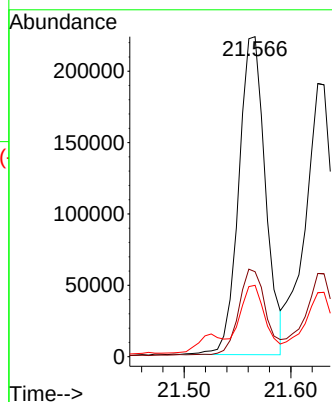
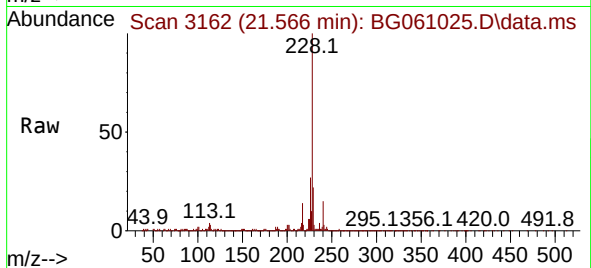
Tgt Ion:228 Resp: 388652

Ion Ratio Lower Upper

228 100

226 26.6 21.0 31.4

229 22.3 15.0 22.4



#83

Chrysene

Concen: 28.679 ng

RT: 21.625 min Scan# 3172

Delta R.T. 0.004 min

Lab File: BG061025.D

Acq: 24 Apr 2024 14:42

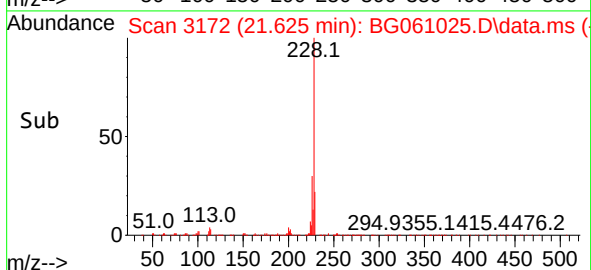
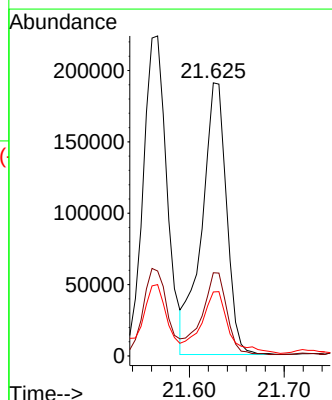
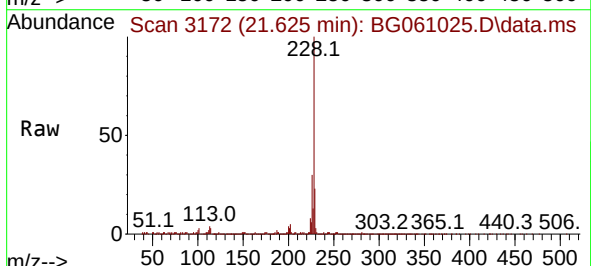
Tgt Ion:228 Resp: 345484

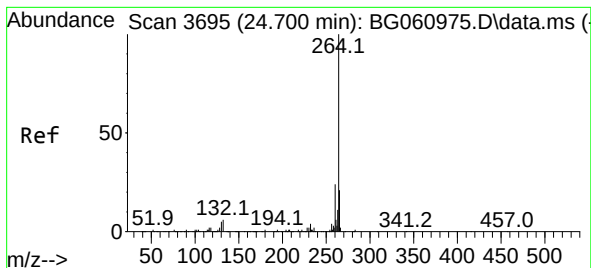
Ion Ratio Lower Upper

228 100

226 30.5 24.2 36.2

229 23.4 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.710 min Scan# 3

Delta R.T. 0.010 min

Lab File: BG061025.D

Acq: 24 Apr 2024 14:42

Instrument :

BNA_G

ClientSampleId :

EXCAVATION-SOIL

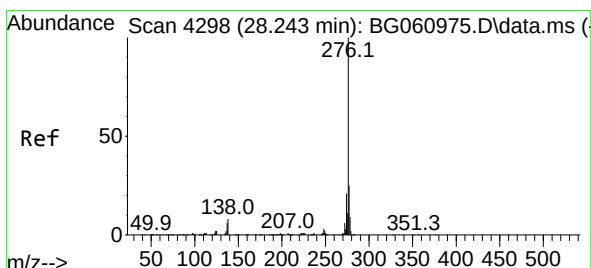
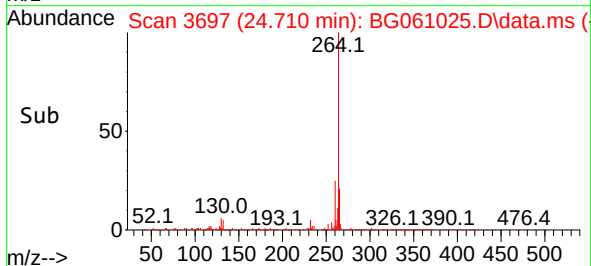
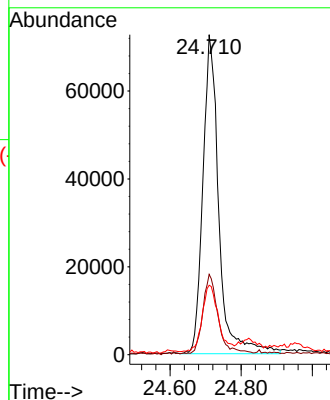
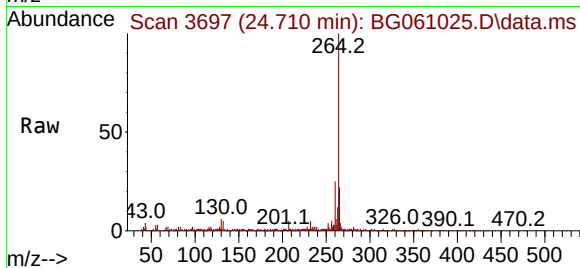
Tgt Ion:264 Resp: 225475

Ion Ratio Lower Upper

264 100

260 25.1 19.4 29.2

265 21.7 17.0 25.4



#87

Indeno(1,2,3-cd)pyrene

Concen: 6.248 ng

RT: 28.265 min Scan# 4302

Delta R.T. 0.022 min

Lab File: BG061025.D

Acq: 24 Apr 2024 14:42

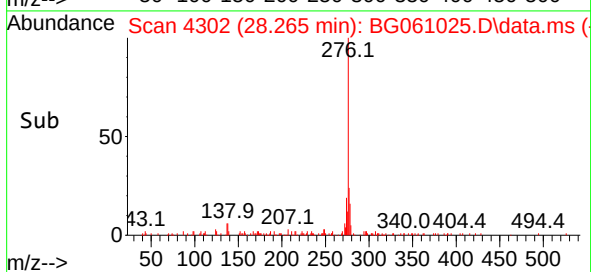
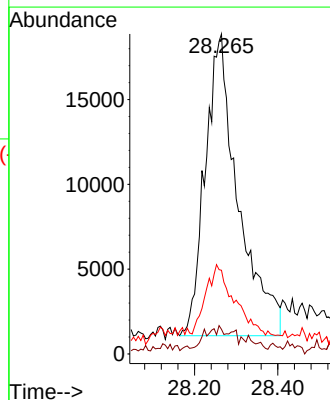
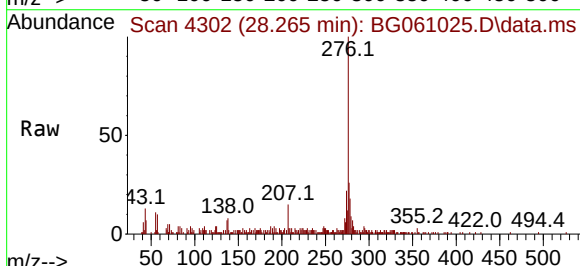
Tgt Ion:276 Resp: 97724

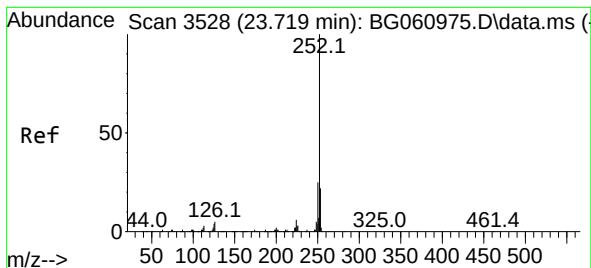
Ion Ratio Lower Upper

276 100

138 0.0 5.3 7.9#

277 19.9 20.6 30.8#





#88

Benzo(b)fluoranthene

Concen: 26.145 ng

RT: 23.729 min Scan# 3530

Delta R.T. 0.010 min

Lab File: BG061025.D

Acq: 24 Apr 2024 14:42

Instrument :

BNA_G

ClientSampleId :

EXCAVATION-SOIL

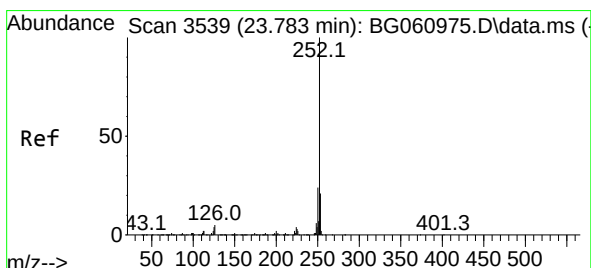
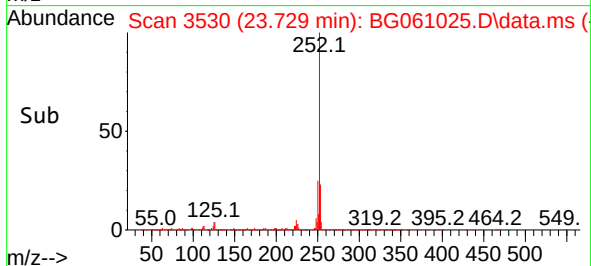
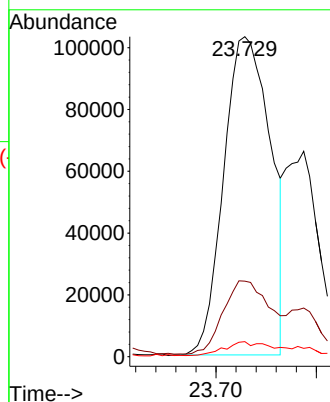
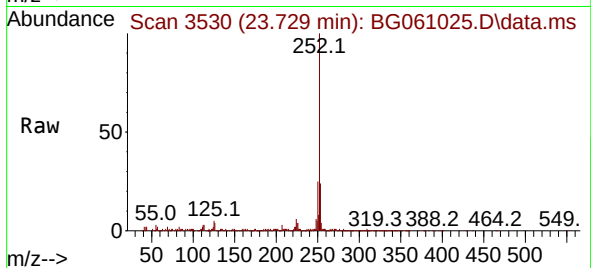
Tgt Ion:252 Resp: 334068

Ion Ratio Lower Upper

252 100

253 23.6 17.5 26.3

125 4.7 3.3 4.9



#89

Benzo(k)fluoranthene

Concen: 25.899 ng

RT: 23.729 min Scan# 3530

Delta R.T. -0.055 min

Lab File: BG061025.D

Acq: 24 Apr 2024 14:42

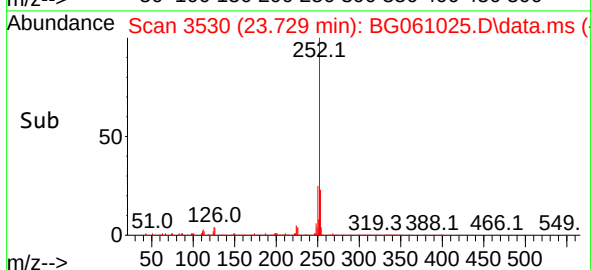
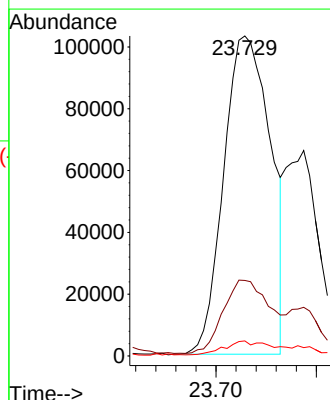
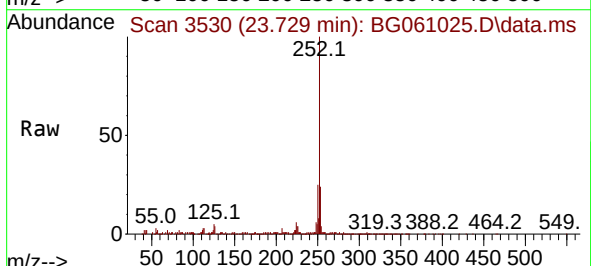
Tgt Ion:252 Resp: 334068

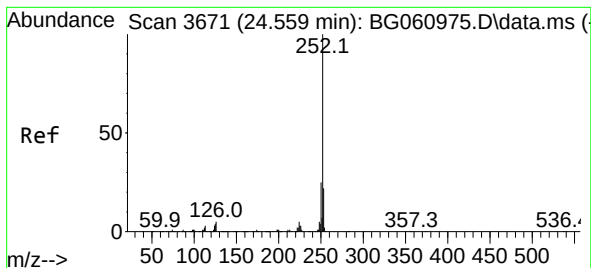
Ion Ratio Lower Upper

252 100

253 23.6 16.6 25.0

125 4.7 3.3 4.9





#90

Benzo(a)pyrene

Concen: 19.567 ng

RT: 24.563 min Scan# 3

Delta R.T. 0.004 min

Lab File: BG061025.D

Acq: 24 Apr 2024 14:42

Instrument :

BNA_G

ClientSampleId :

EXCAVATION-SOIL

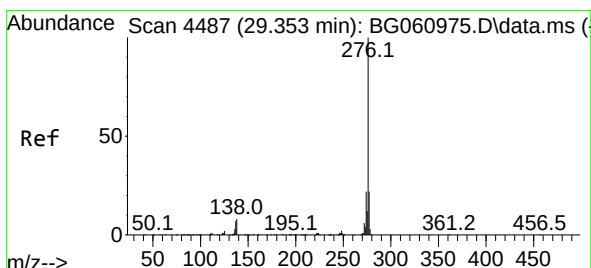
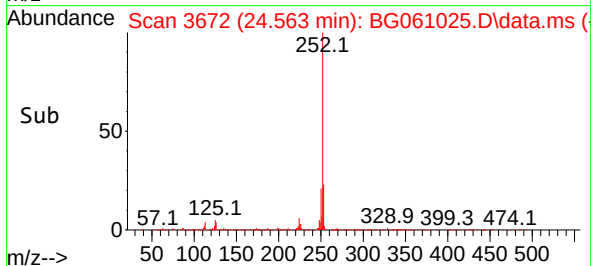
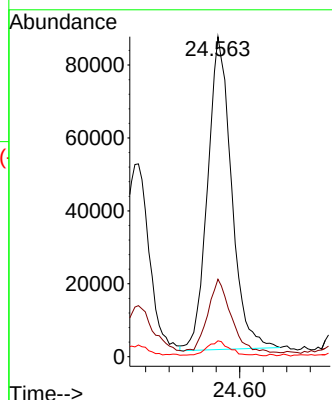
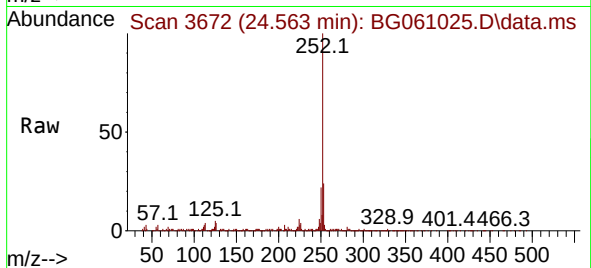
Tgt Ion:252 Resp: 242002

Ion Ratio Lower Upper

252 100

253 24.2 17.7 26.5

125 4.9 3.6 5.4



#92

Benzo(g,h,i)perylene

Concen: 5.801 ng

RT: 29.357 min Scan# 4488

Delta R.T. 0.004 min

Lab File: BG061025.D

Acq: 24 Apr 2024 14:42

Tgt Ion:276 Resp: 73502

Ion Ratio Lower Upper

276 100

277 27.4 18.0 27.0#

138 13.4 6.5 9.7#

