

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG110522\
 Data File : BG055478.D
 Acq On : 5 Nov 2022 20:21
 Operator : CG/JU
 Sample : N5435-03
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 PTS-SOIL-PILE-1103

Quant Time: Nov 07 00:59:08 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG110122.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 07 00:51:08 2022
 Response via : Initial Calibration

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

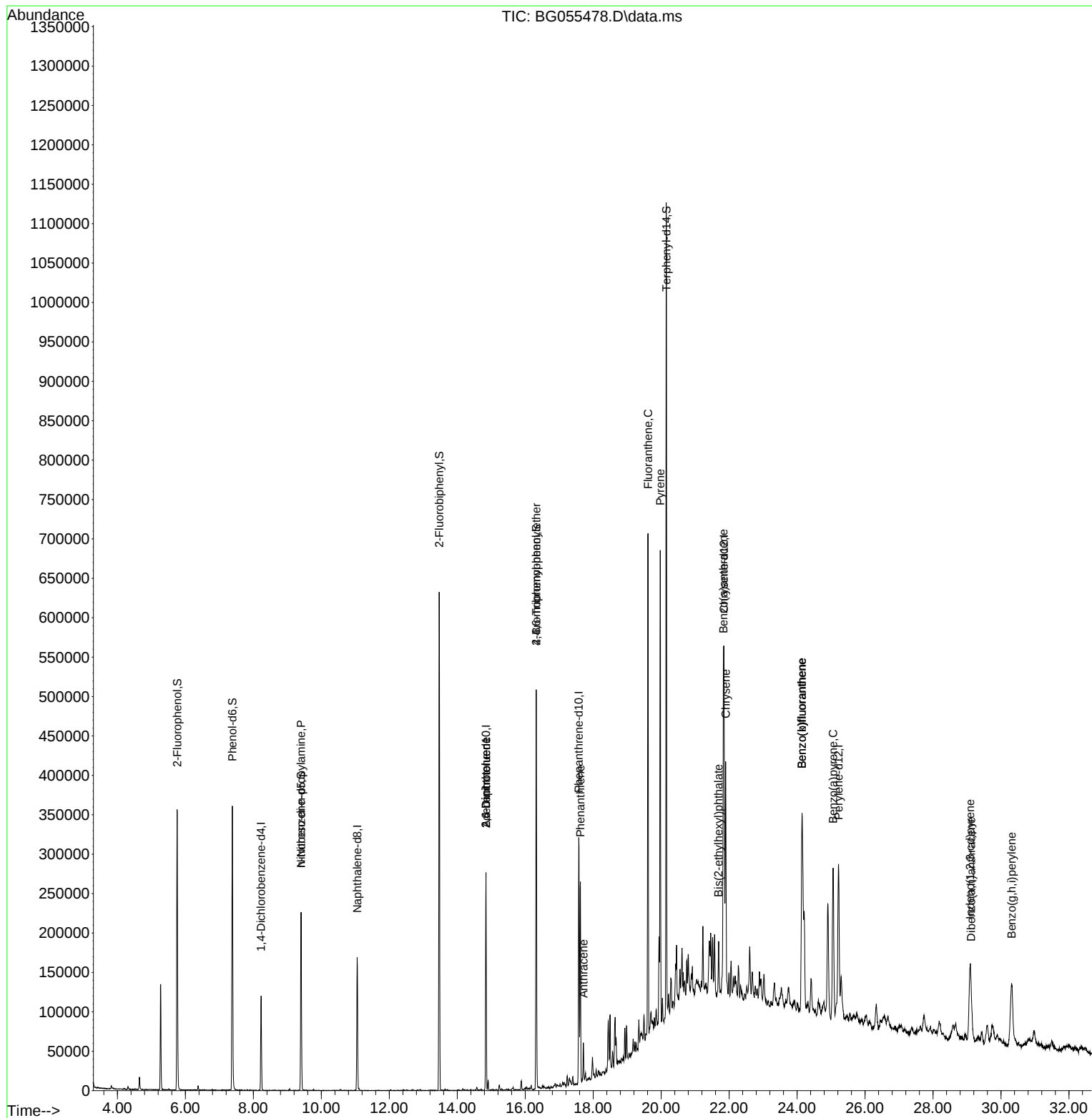
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.229	152	36850	20.000	ng	0.00
21) Naphthalene-d8	11.055	136	148927	20.000	ng	0.00
39) Acenaphthene-d10	14.844	164	98659	20.000	ng	0.00
64) Phenanthrene-d10	17.576	188	208860	20.000	ng	0.00
76) Chrysene-d12	21.848	240	204456	20.000	ng	0.00
86) Perylene-d12	25.220	264	224708	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.761	112	179195	87.329	ng	0.01
7) Phenol-d6	7.382	99	233536	82.071	ng	0.00
23) Nitrobenzene-d5	9.404	82	139893	50.062	ng	0.00
42) 2,4,6-Tribromophenol	16.325	330	111972	83.205	ng	0.00
45) 2-Fluorobiphenyl	13.469	172	344304	51.742	ng	0.00
79) Terphenyl-d14	20.156	244	523492	49.788	ng	0.00
Target Compounds						
						Qvalue
19) n-Nitroso-di-n-propyla...	9.404	70	18611	8.370	ng	# 81
51) 2,6-Dinitrotoluene	14.844	165	13157	7.631	ng	# 27
57) 2,4-Dinitrotoluene	14.844	165	13157	5.337	ng	# 25
67) 4-Bromophenyl-phenylether	16.325	248	6860	2.779	ng	# 1
71) Phenanthrene	17.623	178	163996	13.959	ng	99
72) Anthracene	17.712	178	33207	2.884	ng	99
75) Fluoranthene	19.615	202	417937	29.575	ng	99
78) Pyrene	19.974	202	393065	27.252	ng	100
81) Benzo(a)anthracene	21.830	228	229253	16.334	ng	99
83) Chrysene	21.901	228	227934	17.023	ng	97
84) Bis(2-ethylhexyl)phtha...	21.689	149	26267	3.005	ng	# 97
87) Indeno(1,2,3-cd)pyrene	29.098	276	175031	9.702	ng	# 87
88) Benzo(b)fluoranthene	24.145	252	333231	23.346	ng	98
89) Benzo(k)fluoranthene	24.145	252	333231	23.232	ng	99
90) Benzo(a)pyrene	25.062	252	227454	18.430	ng	98
91) Dibenzo(a,h)anthracene	29.122	278	48254	3.242	ng	96
92) Benzo(g,h,i)perylene	30.314	276	174882	11.813	ng	98

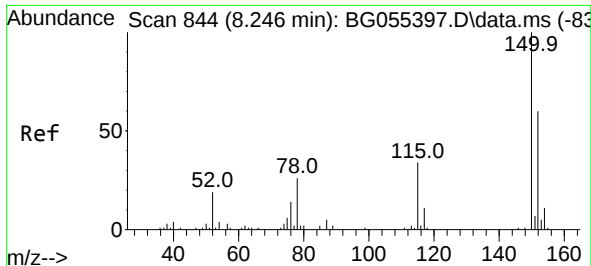
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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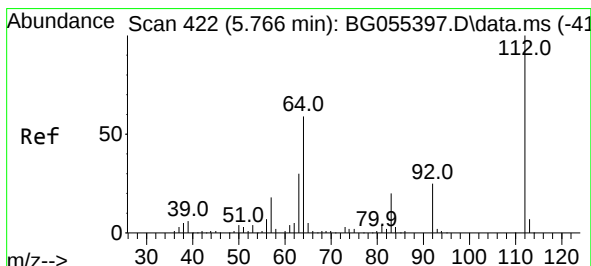
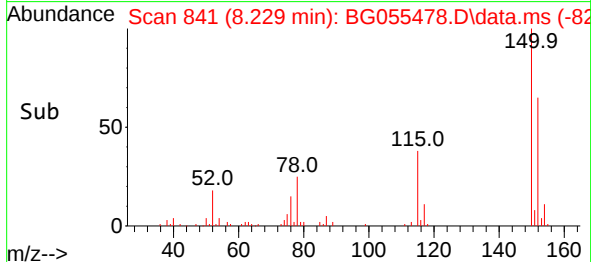
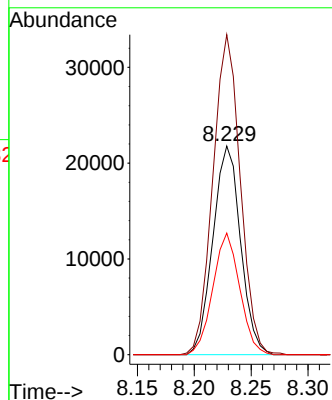
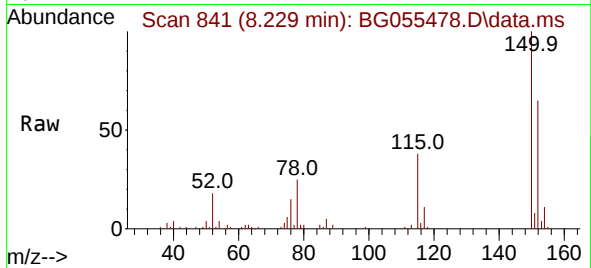




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.229 min Scan# 844
Delta R.T. -0.002 min
Lab File: BG055478.D
Acq: 5 Nov 2022 20:21

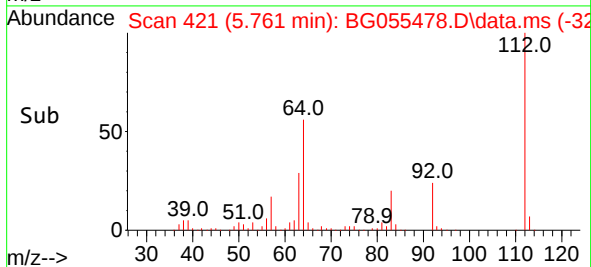
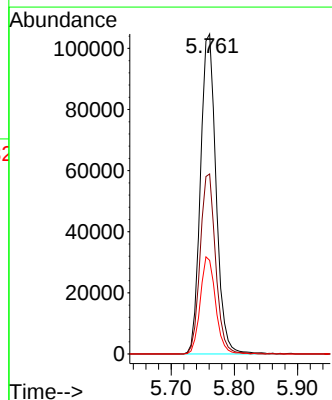
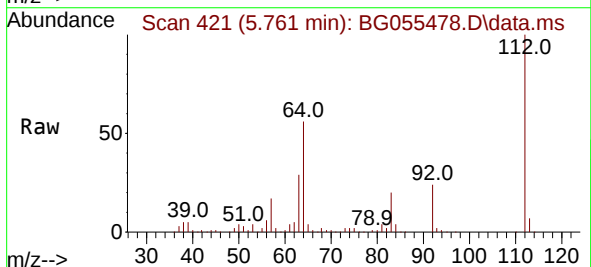
Instrument :
BNA_G
ClientSampleId :
PTS-SOIL-PILE-1103

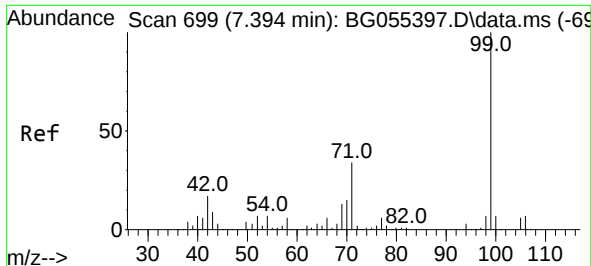
Tgt Ion:152 Resp: 36850
Ion Ratio Lower Upper
152 100
150 153.4 132.8 199.2
115 58.3 45.1 67.7



#5
2-Fluorophenol
Concen: 87.329 ng
RT: 5.761 min Scan# 421
Delta R.T. 0.010 min
Lab File: BG055478.D
Acq: 5 Nov 2022 20:21

Tgt Ion:112 Resp: 179195
Ion Ratio Lower Upper
112 100
64 56.3 47.2 70.8
63 29.2 24.3 36.5

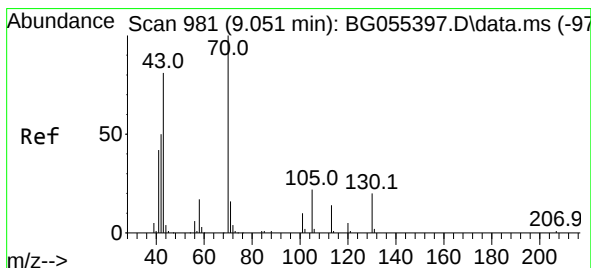
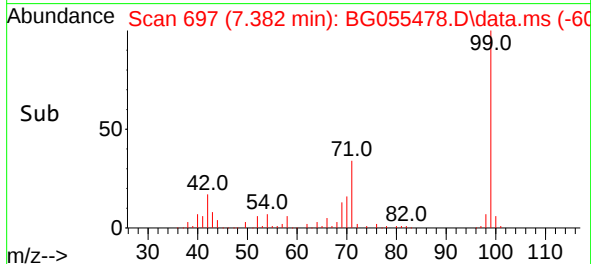
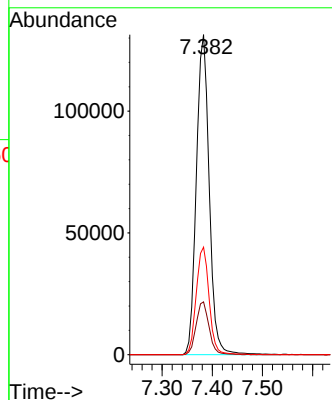
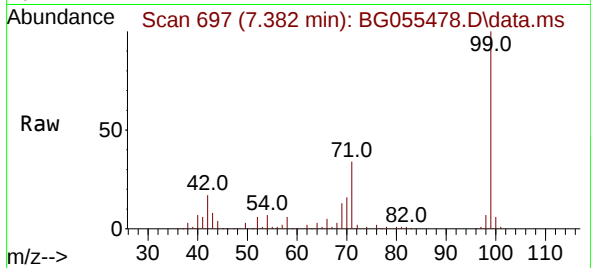




#7
Phenol-d6
Concen: 82.071 ng
RT: 7.382 min Scan# 697
Delta R.T. 0.005 min
Lab File: BG055478.D
Acq: 5 Nov 2022 20:21

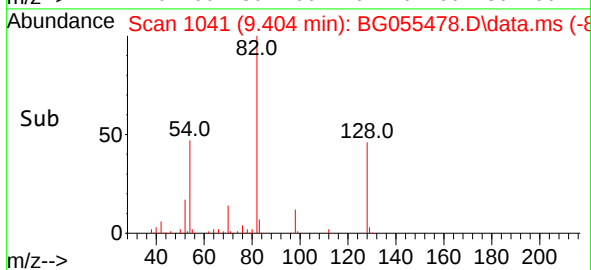
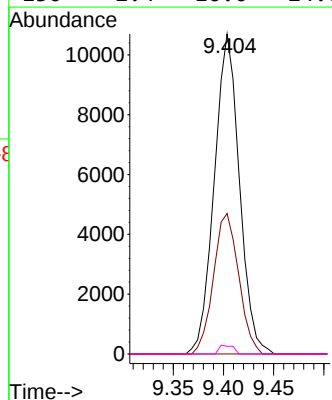
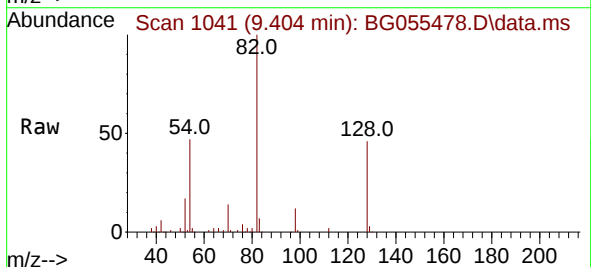
Instrument :
BNA_G
ClientSampleId :
PTS-SOIL-PILE-1103

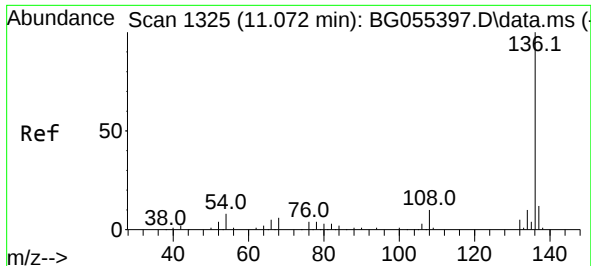
Tgt Ion: 99 Resp: 233536
Ion Ratio Lower Upper
99 100
42 16.5 13.5 20.3
71 33.6 27.4 41.0



#19
n-Nitroso-di-n-propylamine
Concen: 8.370 ng
RT: 9.404 min Scan# 1041
Delta R.T. 0.369 min
Lab File: BG055478.D
Acq: 5 Nov 2022 20:21

Tgt Ion: 70 Resp: 18611
Ion Ratio Lower Upper
70 100
42 43.9 40.6 61.0
101 0.0 7.8 11.6#
130 2.4 16.0 24.0#

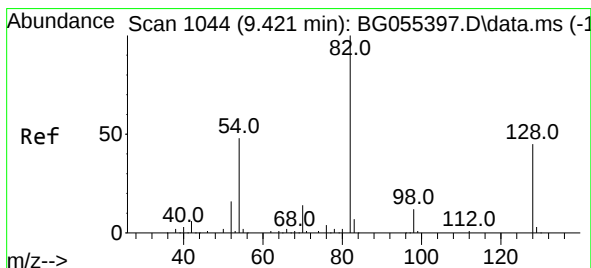
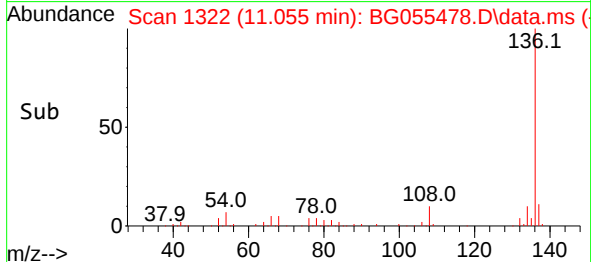
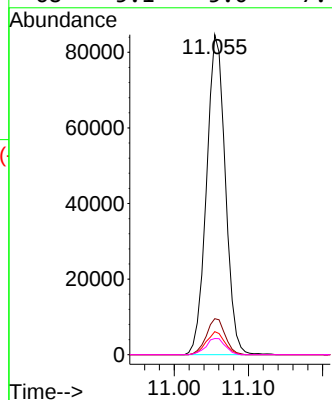
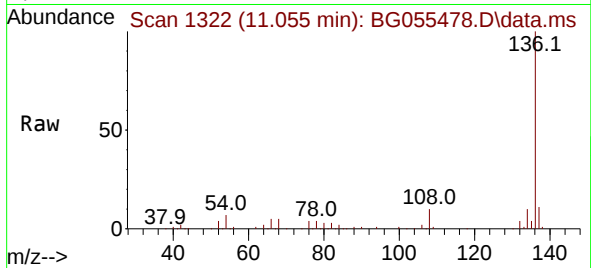




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.055 min Scan# 11
Delta R.T. -0.001 min
Lab File: BG055478.D
Acq: 5 Nov 2022 20:21

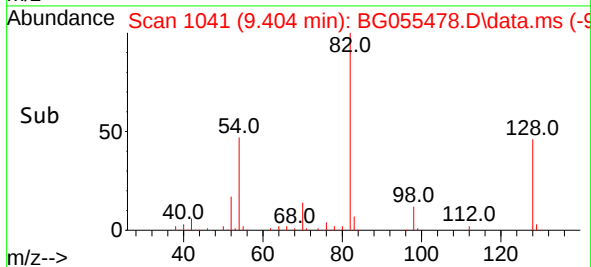
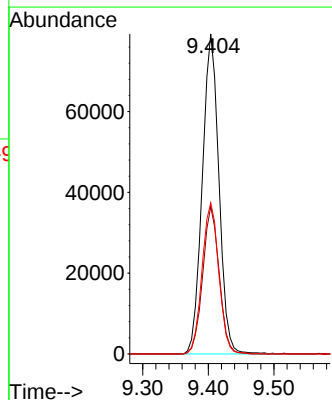
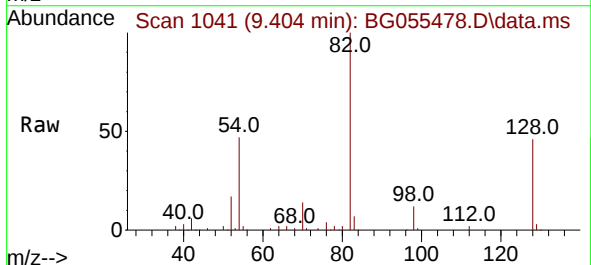
Instrument :
BNA_G
ClientSampleId :
PTS-SOIL-PILE-1103

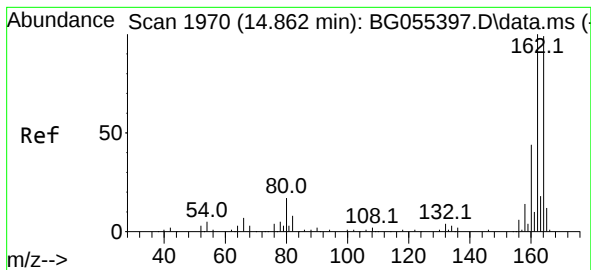
Tgt	Ion:136	Resp:	148927
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.4	14.2
54	7.2	6.1	9.1
68	5.1	5.0	7.4



#23
Nitrobenzene-d5
Concen: 50.062 ng
RT: 9.404 min Scan# 1041
Delta R.T. -0.001 min
Lab File: BG055478.D
Acq: 5 Nov 2022 20:21

Tgt Ion: 82	Resp: 139893
Ion Ratio	Lower Upper
82 100	
128 46.1	35.8 53.8
54 47.3	38.1 57.1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.844 min Scan# 1967

Delta R.T. -0.001 min

Lab File: BG055478.D

Acq: 5 Nov 2022 20:21

Instrument :

BNA_G

ClientSampleId :

PTS-SOIL-PILE-1103

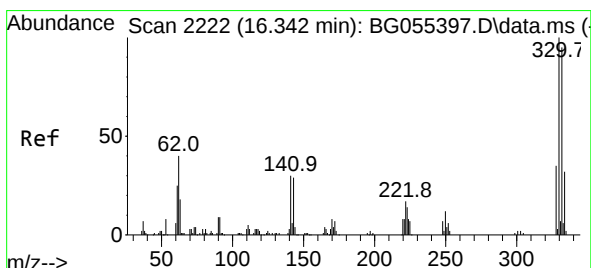
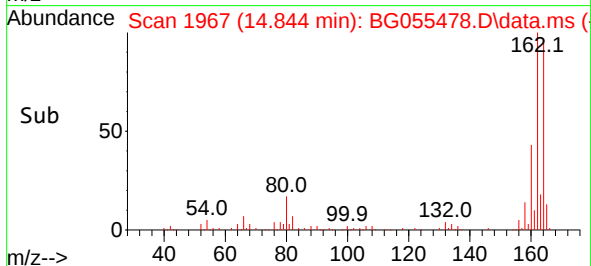
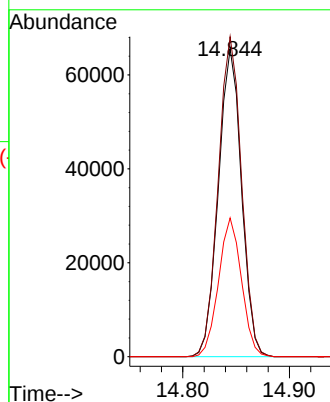
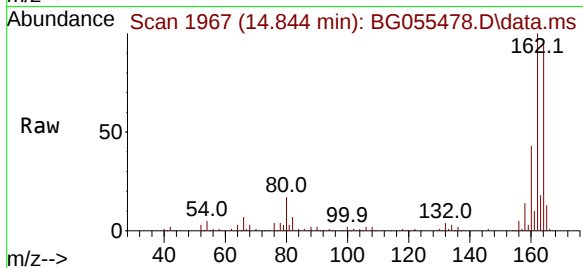
Tgt Ion:164 Resp: 98659

Ion Ratio Lower Upper

164 100

162 104.0 81.1 121.7

160 45.1 35.8 53.6



#42

2,4,6-Tribromophenol

Concen: 83.205 ng

RT: 16.325 min Scan# 2219

Delta R.T. -0.007 min

Lab File: BG055478.D

Acq: 5 Nov 2022 20:21

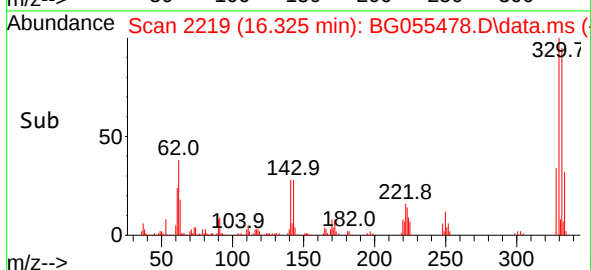
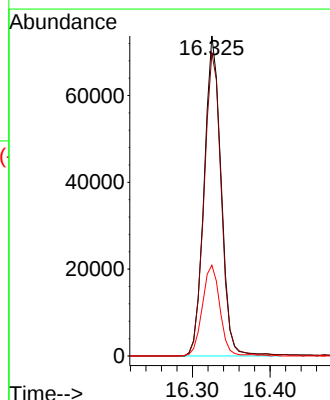
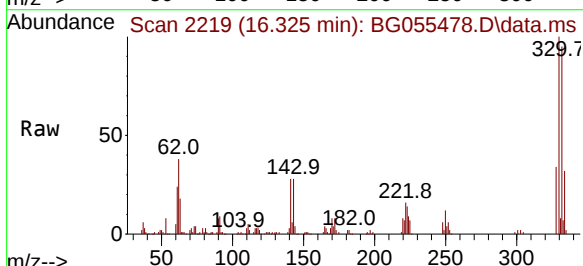
Tgt Ion:330 Resp: 111972

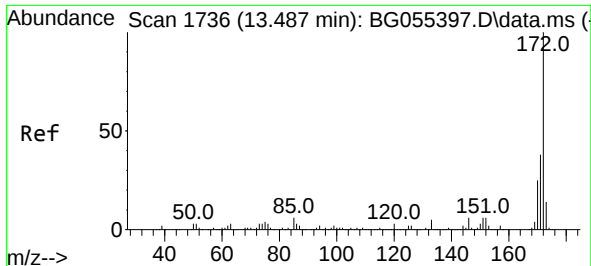
Ion Ratio Lower Upper

330 100

332 96.8 77.8 116.6

141 29.6 24.2 36.2

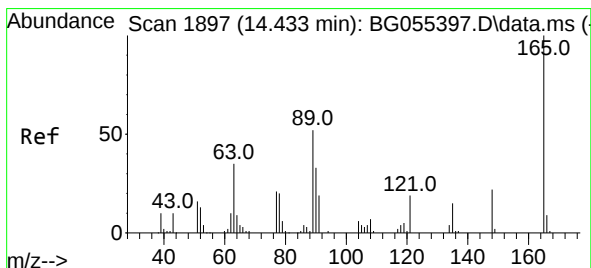
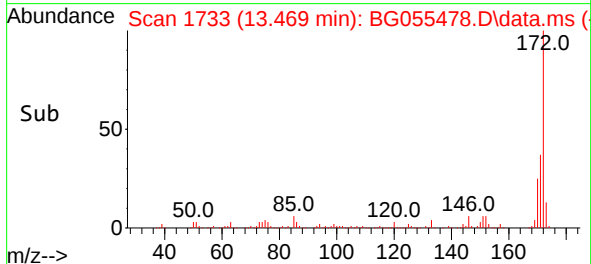
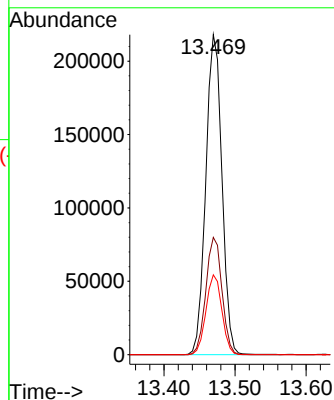
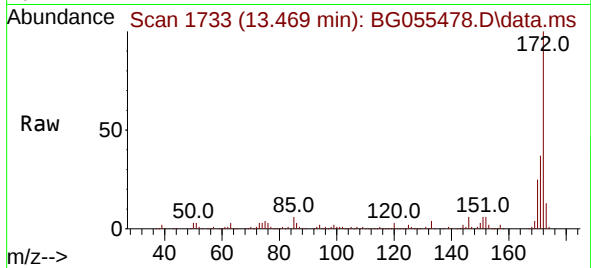




#45
2-Fluorobiphenyl
Concen: 51.742 ng
RT: 13.469 min Scan# 1
Delta R.T. -0.001 min
Lab File: BG055478.D
Acq: 5 Nov 2022 20:21

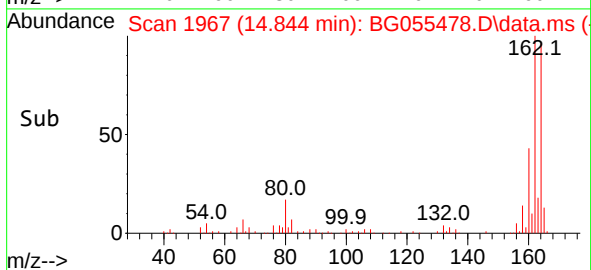
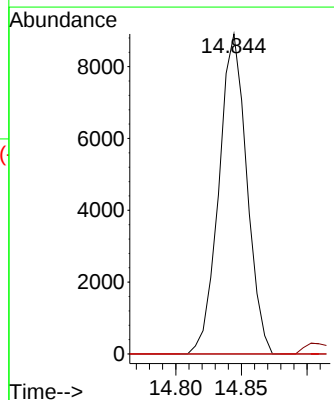
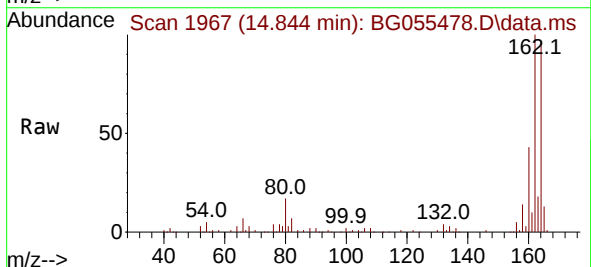
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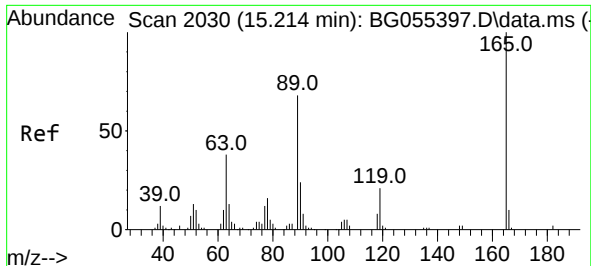
Tgt Ion:172 Resp: 344304
Ion Ratio Lower Upper
172 100
171 36.7 30.2 45.2
170 24.9 20.2 30.2



#51
2,6-Dinitrotoluene
Concen: 7.631 ng
RT: 14.844 min Scan# 1967
Delta R.T. 0.422 min
Lab File: BG055478.D
Acq: 5 Nov 2022 20:21

Tgt Ion:165 Resp: 13157
Ion Ratio Lower Upper
165 100
63 0.0 38.2 57.4#
89 0.0 41.8 62.6#





#57

2,4-Dinitrotoluene

Concen: 5.337 ng

RT: 14.844 min Scan# 1967

Delta R.T. -0.360 min

Lab File: BG055478.D

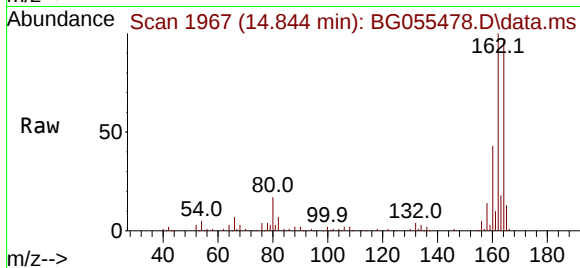
Acq: 5 Nov 2022 20:21

Instrument :

BNA_G

ClientSampleId :

PTS-SOIL-PILE-1103



Tgt Ion:165 Resp: 13157

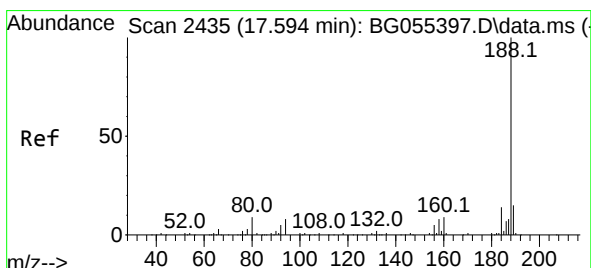
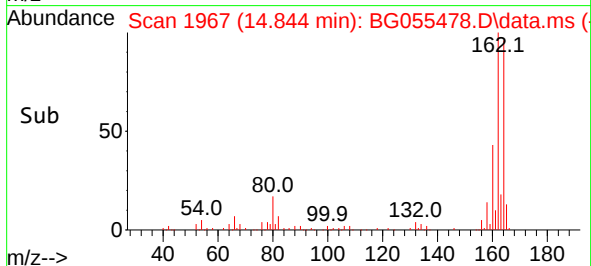
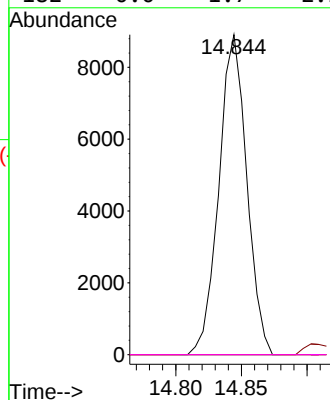
Ion Ratio Lower Upper

165 100

63 0.0 30.8 46.2#

89 0.0 54.5 81.7#

182 0.0 1.7 2.5#



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.576 min Scan# 2432

Delta R.T. -0.007 min

Lab File: BG055478.D

Acq: 5 Nov 2022 20:21

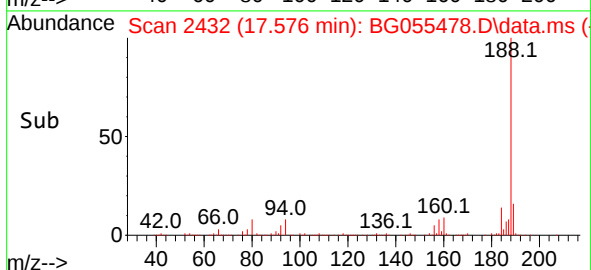
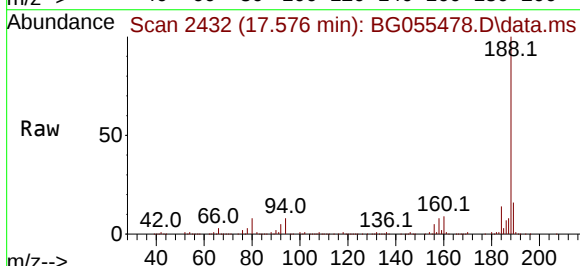
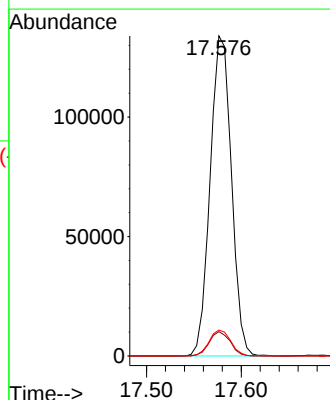
Tgt Ion:188 Resp: 208860

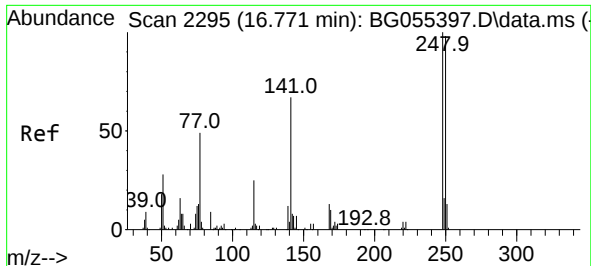
Ion Ratio Lower Upper

188 100

94 7.6 6.5 9.7

80 8.1 7.4 11.0

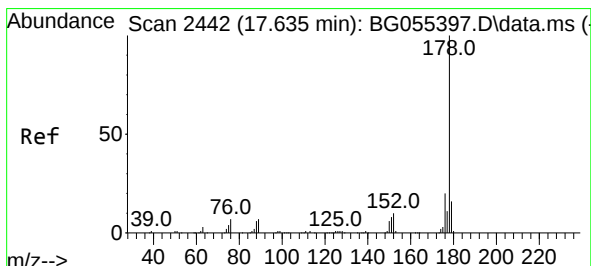
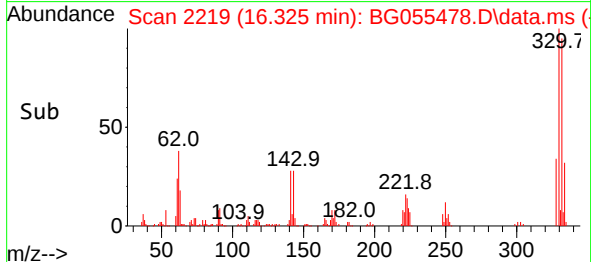
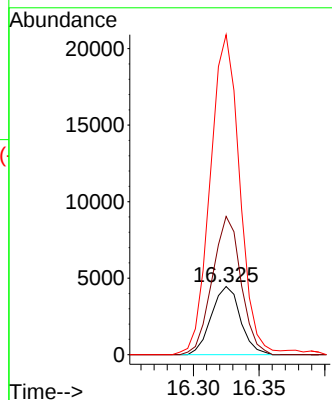
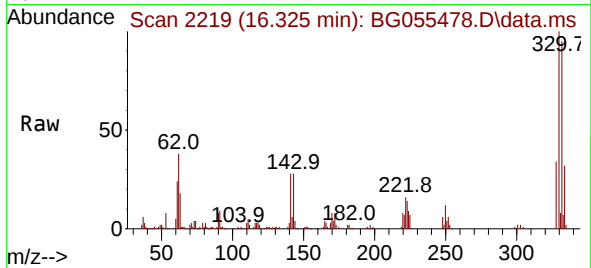




#67
4-Bromophenyl-phenylether
Concen: 2.779 ng
RT: 16.325 min Scan# 211
Delta R.T. -0.436 min
Lab File: BG055478.D
Acq: 5 Nov 2022 20:21

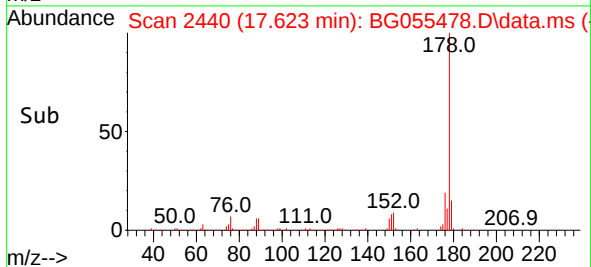
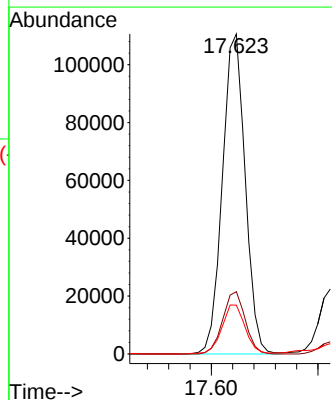
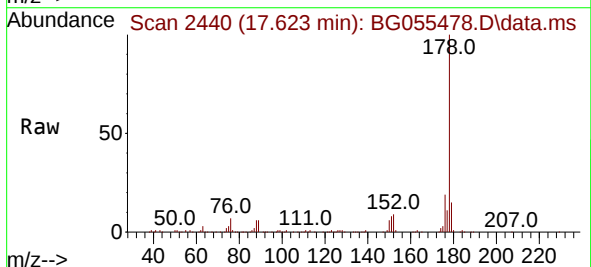
Instrument :
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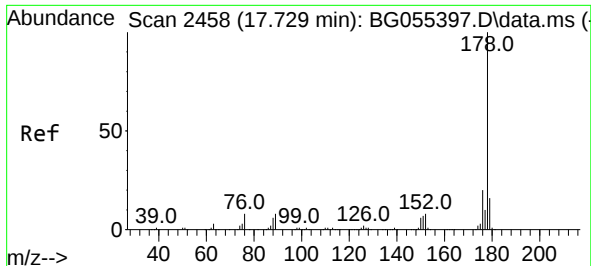
Tgt Ion:248 Resp: 6860
Ion Ratio Lower Upper
248 100
250 202.6 78.3 117.5#
141 469.1 53.7 80.5#



#71
Phenanthrene
Concen: 13.959 ng
RT: 17.623 min Scan# 2440
Delta R.T. -0.001 min
Lab File: BG055478.D
Acq: 5 Nov 2022 20:21

Tgt Ion:178 Resp: 163996
Ion Ratio Lower Upper
178 100
176 19.5 15.8 23.8
179 15.2 12.7 19.1

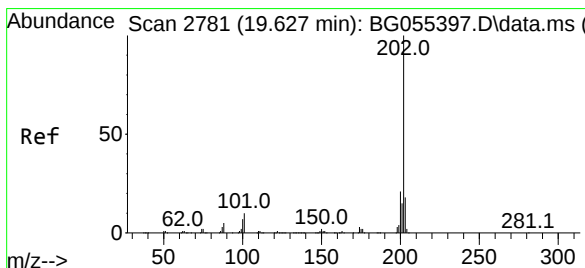
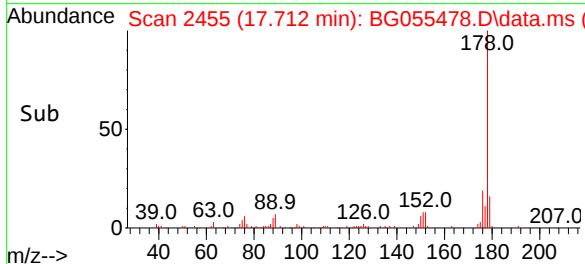
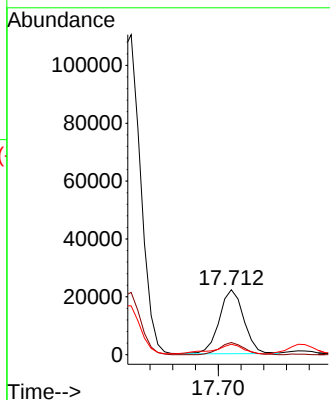
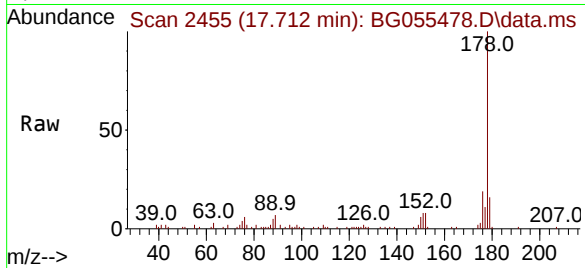




#72
 Anthracene
 Concen: 2.884 ng
 RT: 17.712 min Scan# 2458
 Delta R.T. -0.001 min
 Lab File: BG055478.D
 Acq: 5 Nov 2022 20:21

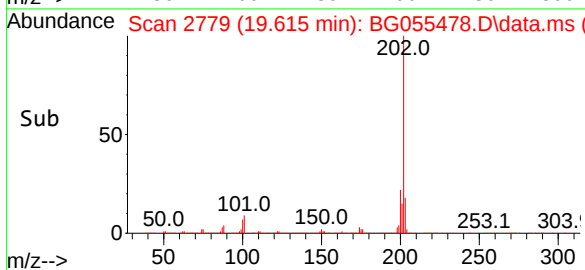
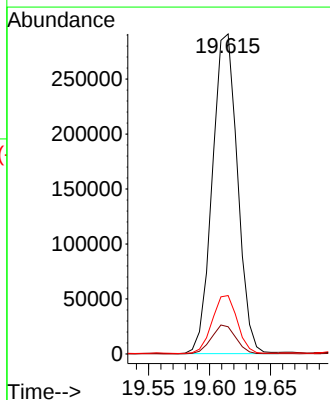
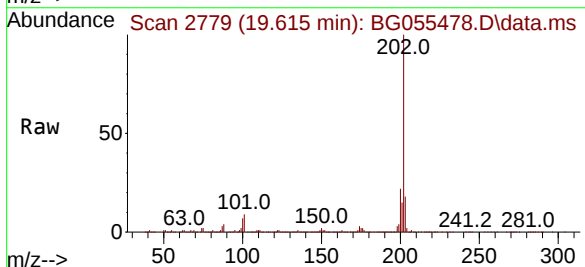
Instrument :
 BNA_G
 ClientSampleId :
 PTS-SOIL-PILE-1103

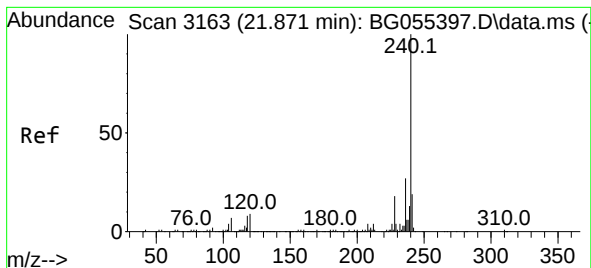
Tgt Ion:178 Resp: 33207
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.7 23.5
 179 15.9 13.0 19.6



#75
 Fluoranthene
 Concen: 29.575 ng
 RT: 19.615 min Scan# 2779
 Delta R.T. -0.001 min
 Lab File: BG055478.D
 Acq: 5 Nov 2022 20:21

Tgt Ion:202 Resp: 417937
 Ion Ratio Lower Upper
 202 100
 101 8.5 0.0 29.8
 203 18.2 0.0 38.1





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.848 min Scan# 31

Delta R.T. -0.007 min

Lab File: BG055478.D

Acq: 5 Nov 2022 20:21

Instrument :

BNA_G

ClientSampleId :

PTS-SOIL-PILE-1103

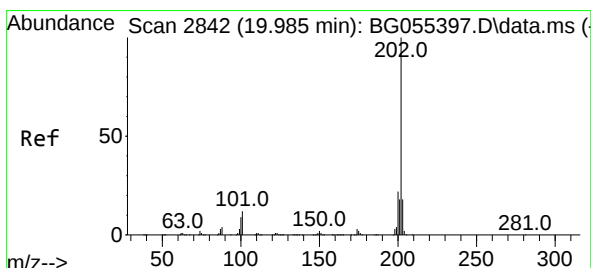
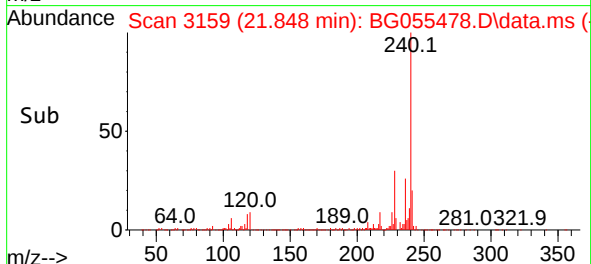
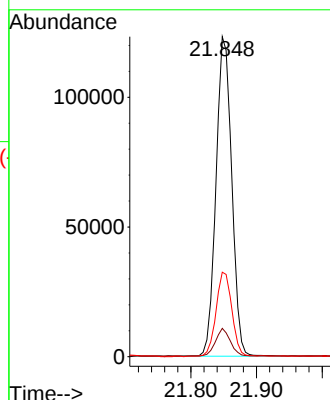
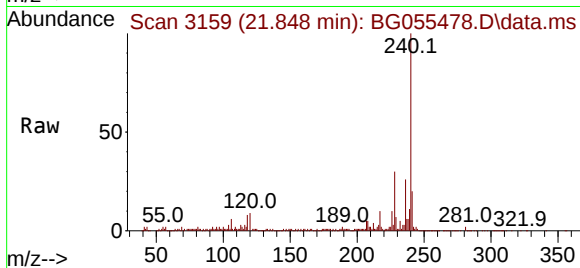
Tgt Ion:240 Resp: 204456

Ion Ratio Lower Upper

240 100

120 8.9 6.9 10.3

236 26.4 21.5 32.3



#78

Pyrene

Concen: 27.252 ng

RT: 19.974 min Scan# 2840

Delta R.T. -0.001 min

Lab File: BG055478.D

Acq: 5 Nov 2022 20:21

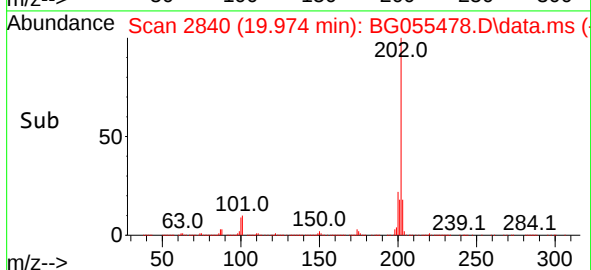
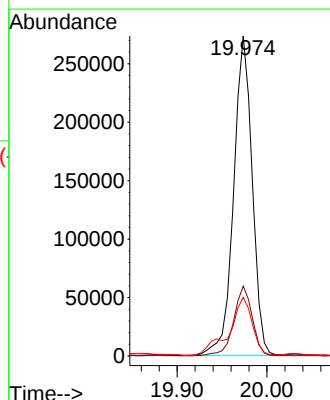
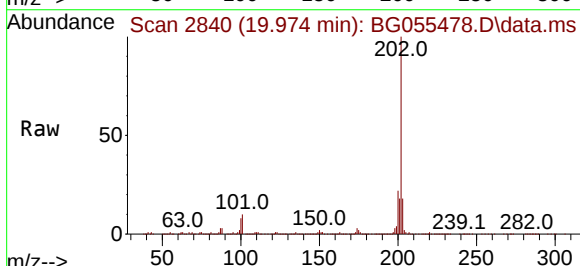
Tgt Ion:202 Resp: 393065

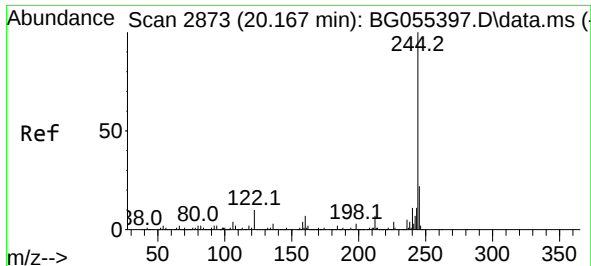
Ion Ratio Lower Upper

202 100

200 21.9 17.4 26.2

203 18.3 14.7 22.1

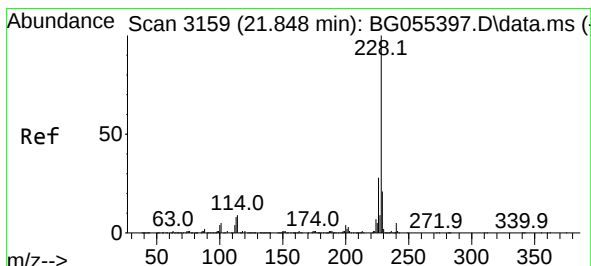
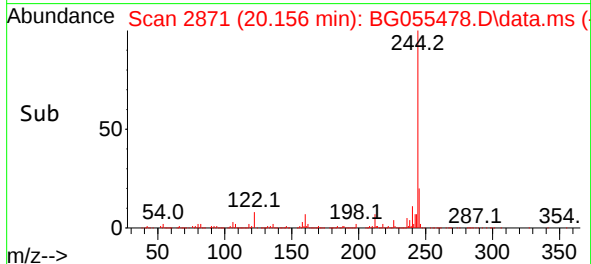
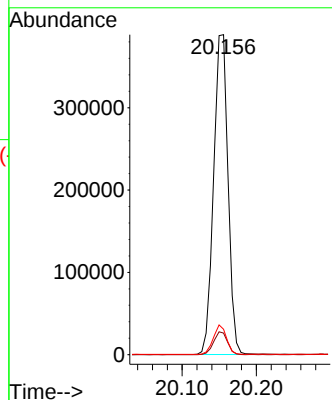
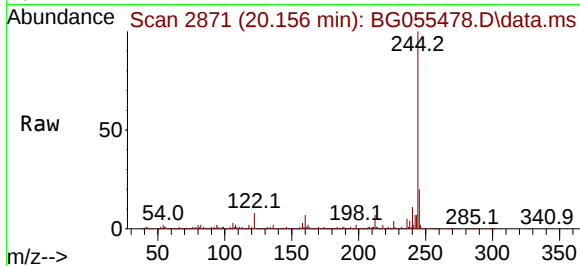




#79
 Terphenyl-d14
 Concen: 49.788 ng
 RT: 20.156 min Scan# 20156
 Delta R.T. -0.001 min
 Lab File: BG055478.D
 Acq: 5 Nov 2022 20:21

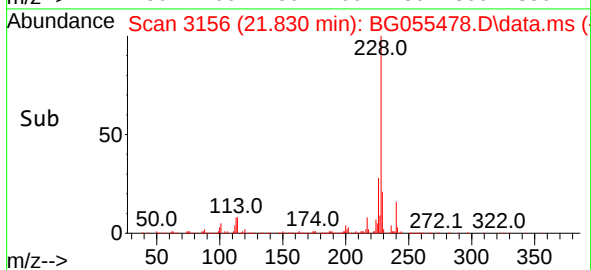
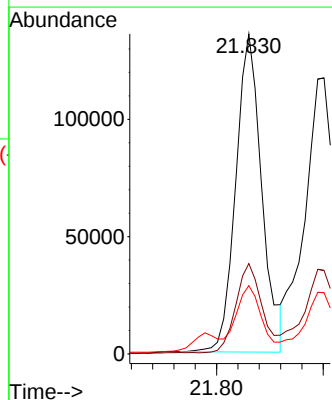
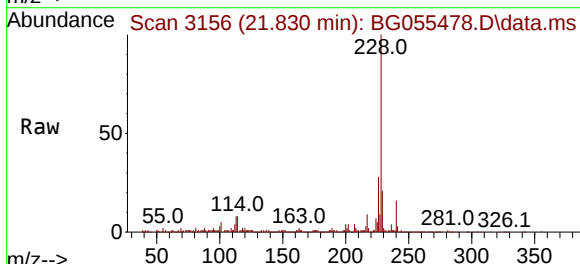
Instrument :
 BNA_G
 ClientSampleId :
 PTS-SOIL-PILE-1103

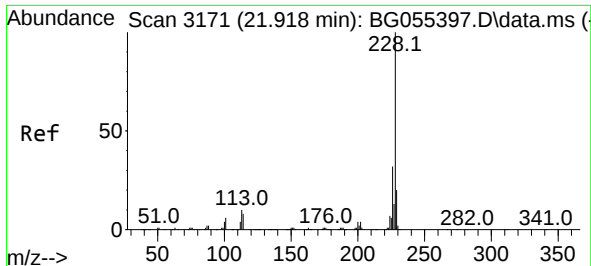
Tgt Ion:244 Resp: 523492
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.8 8.8
 122 8.0 7.8 11.6



#81
 Benzo(a)anthracene
 Concen: 16.334 ng
 RT: 21.830 min Scan# 3156
 Delta R.T. -0.001 min
 Lab File: BG055478.D
 Acq: 5 Nov 2022 20:21

Tgt Ion:228 Resp: 229253
 Ion Ratio Lower Upper
 228 100
 226 28.3 22.6 33.8
 229 21.3 16.5 24.7

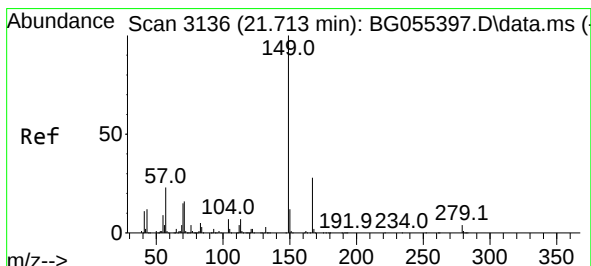
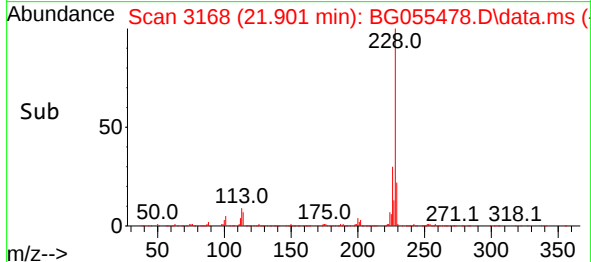
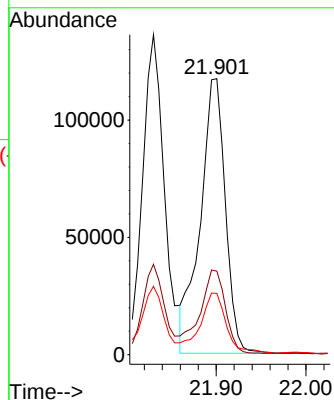
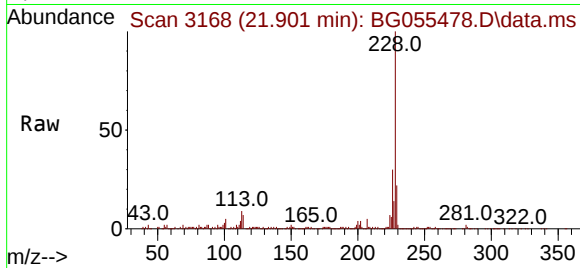




#83
Chrysene
Concen: 17.023 ng
RT: 21.901 min Scan# 3171
Delta R.T. -0.001 min
Lab File: BG055478.D
Acq: 5 Nov 2022 20:21

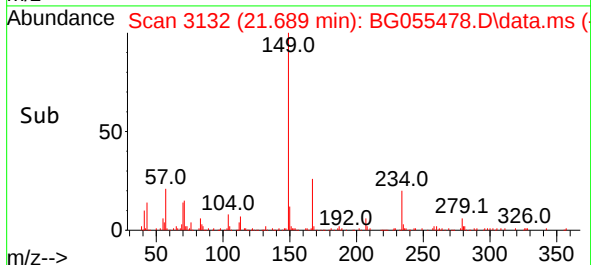
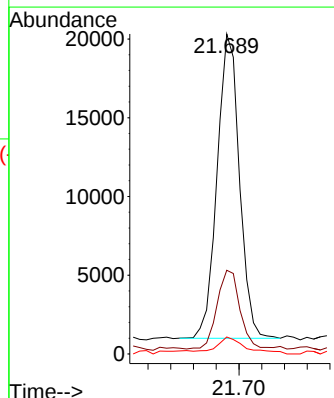
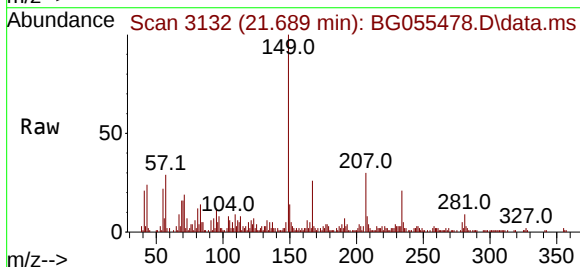
Instrument :
BNA_G
ClientSampleId :
PTS-SOIL-PILE-1103

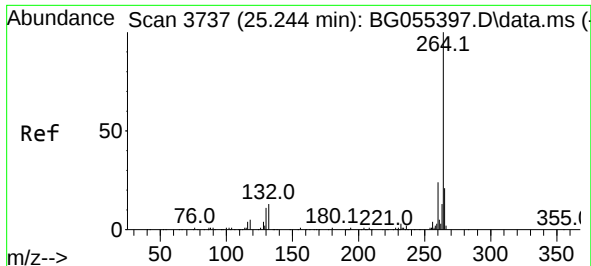
Tgt Ion:228 Resp: 227934
Ion Ratio Lower Upper
228 100
226 30.3 25.2 37.8
229 22.2 16.2 24.2



#84
Bis(2-ethylhexyl)phthalate
Concen: 3.005 ng
RT: 21.689 min Scan# 3132
Delta R.T. -0.001 min
Lab File: BG055478.D
Acq: 5 Nov 2022 20:21

Tgt Ion:149 Resp: 26267
Ion Ratio Lower Upper
149 100
167 26.1 22.0 33.0
279 5.3 3.4 5.2#

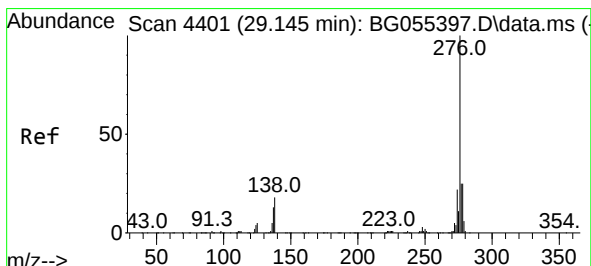
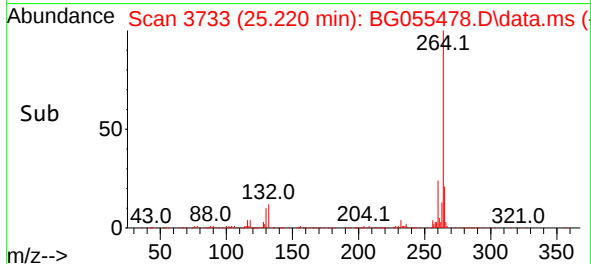
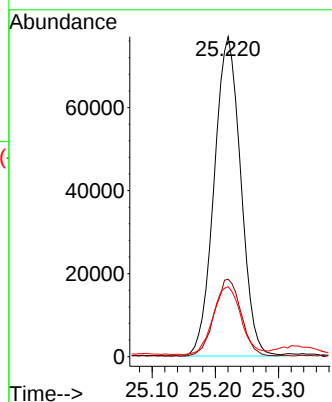
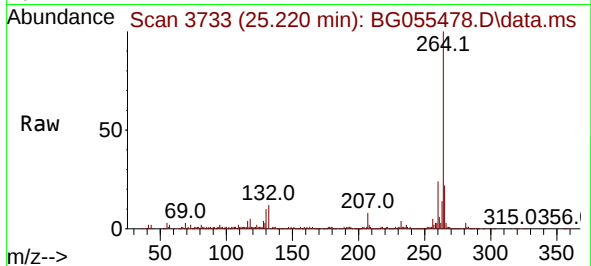




#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 25.220 min Scan# 31
 Delta R.T. -0.001 min
 Lab File: BG055478.D
 Acq: 5 Nov 2022 20:21

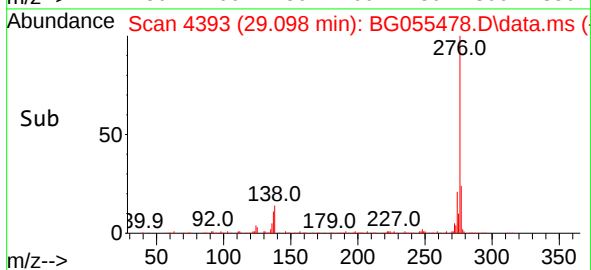
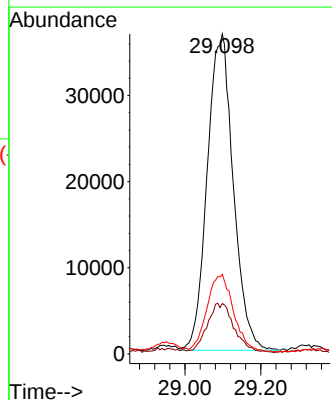
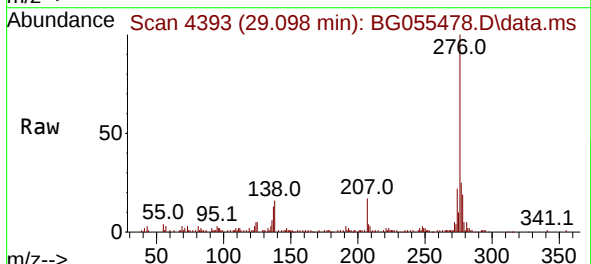
Instrument :
 BNA_G
 ClientSampleId :
 PTS-SOIL-PILE-1103

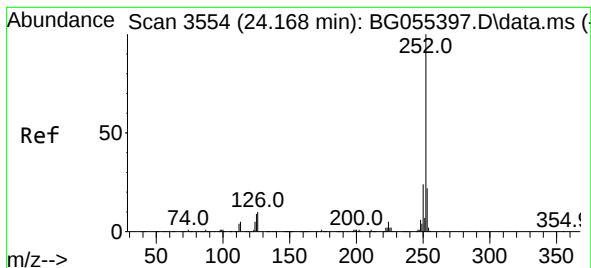
Tgt Ion:264 Resp: 224708
 Ion Ratio Lower Upper
 264 100
 260 24.2 18.9 28.3
 265 21.9 17.1 25.7



#87
 Indeno(1,2,3-cd)pyrene
 Concen: 9.702 ng
 RT: 29.098 min Scan# 4393
 Delta R.T. -0.013 min
 Lab File: BG055478.D
 Acq: 5 Nov 2022 20:21

Tgt Ion:276 Resp: 175031
 Ion Ratio Lower Upper
 276 100
 138 7.4 16.2 24.2#
 277 24.8 20.5 30.7





#88

Benzo(b)fluoranthene

Concen: 23.346 ng

RT: 24.145 min Scan# 3550

Delta R.T. -0.001 min

Lab File: BG055478.D

Acq: 5 Nov 2022 20:21

Instrument :

BNA_G

ClientSampleId :

PTS-SOIL-PILE-1103

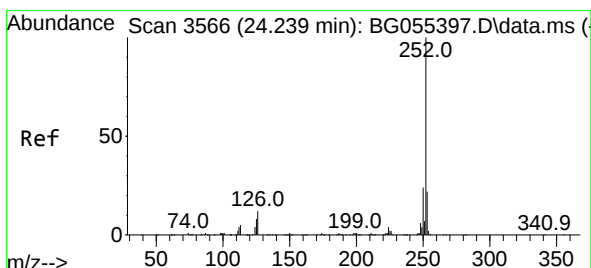
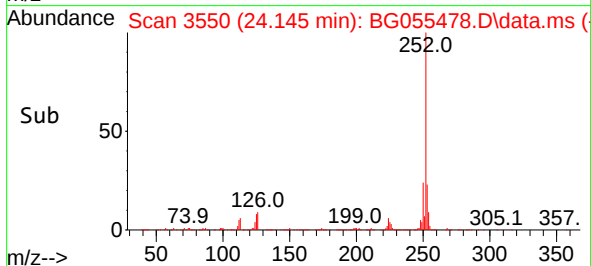
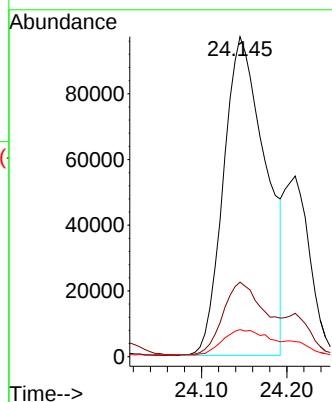
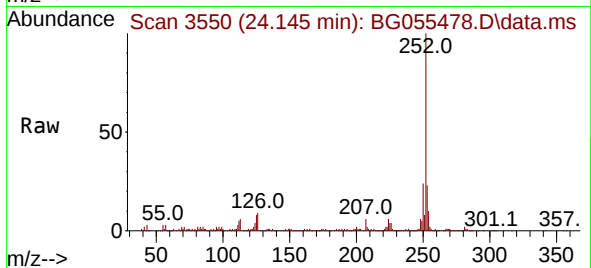
Tgt Ion:252 Resp: 333231

Ion Ratio Lower Upper

252 100

253 23.3 17.8 26.8

125 8.5 6.8 10.2



#89

Benzo(k)fluoranthene

Concen: 23.232 ng

RT: 24.145 min Scan# 3550

Delta R.T. -0.072 min

Lab File: BG055478.D

Acq: 5 Nov 2022 20:21

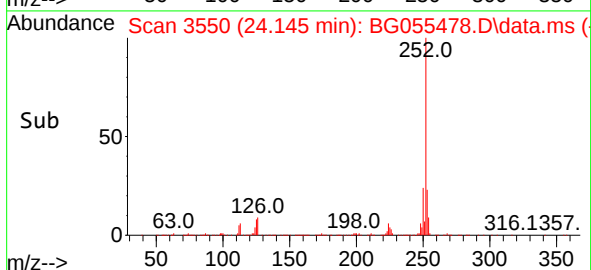
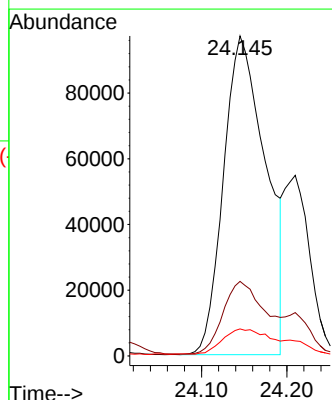
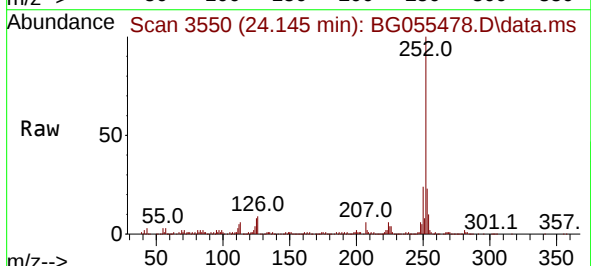
Tgt Ion:252 Resp: 333231

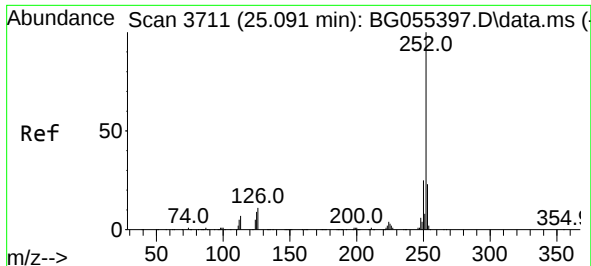
Ion Ratio Lower Upper

252 100

253 23.3 17.9 26.9

125 8.5 6.9 10.3

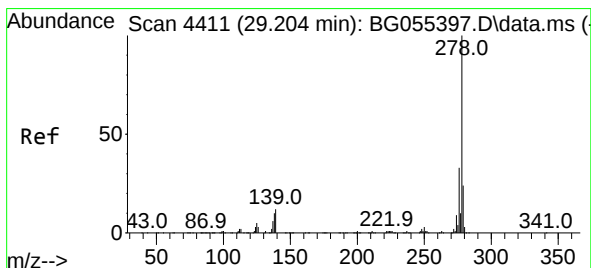
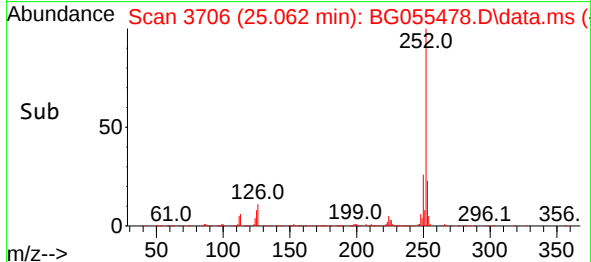
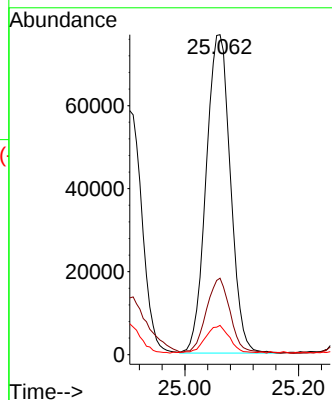
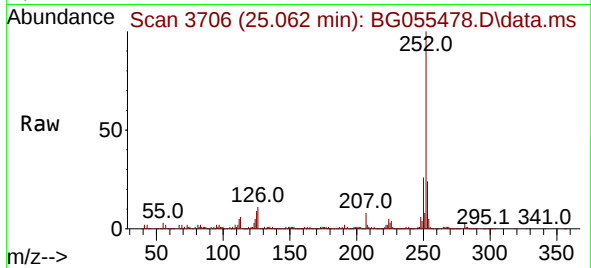




#90
Benzo(a)pyrene
Concen: 18.430 ng
RT: 25.062 min Scan# 31
Delta R.T. -0.001 min
Lab File: BG055478.D
Acq: 5 Nov 2022 20:21

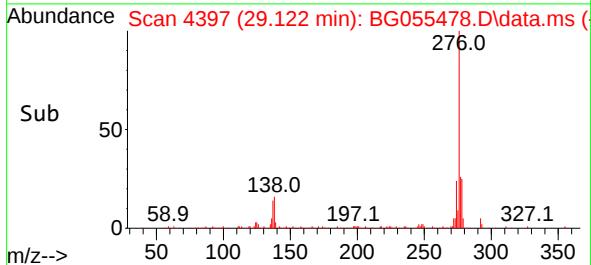
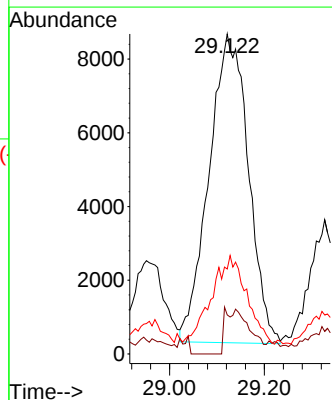
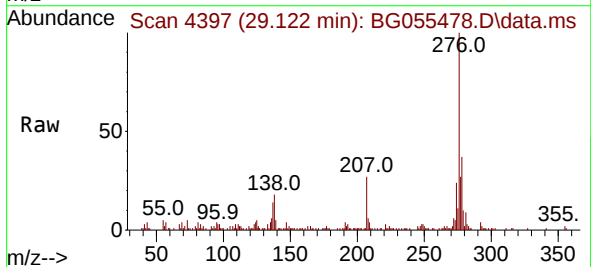
Instrument :
BNA_G
ClientSampleId :
PTS-SOIL-PILE-1103

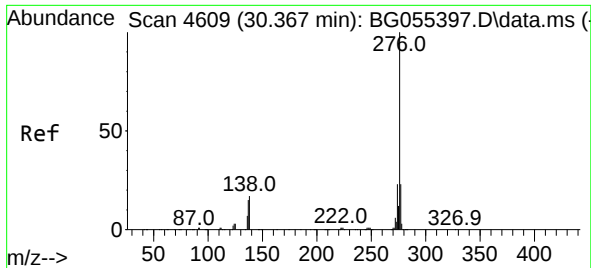
Tgt Ion:252 Resp: 227454
Ion Ratio Lower Upper
252 100
253 23.9 18.2 27.2
125 9.1 7.1 10.7



#91
Dibenzo(a,h)anthracene
Concen: 3.242 ng
RT: 29.122 min Scan# 4397
Delta R.T. -0.037 min
Lab File: BG055478.D
Acq: 5 Nov 2022 20:21

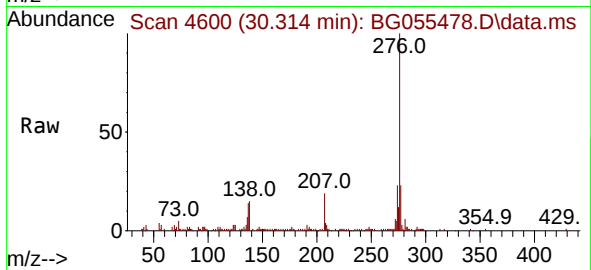
Tgt Ion:278 Resp: 48254
Ion Ratio Lower Upper
278 100
139 12.2 9.9 14.9
279 26.6 19.0 28.4





#92
Benzo(g,h,i)perylene
Concen: 11.813 ng
RT: 30.314 min Scan# 4
Delta R.T. -0.007 min
Lab File: BG055478.D
Acq: 5 Nov 2022 20:21

Instrument :
BNA_G
ClientSampleId :
PTS-SOIL-PILE-1103



Tgt Ion:276 Resp: 174882
Ion Ratio Lower Upper
276 100
277 23.0 18.6 28.0
138 15.4 13.4 20.0

