

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG050824\
 Data File : BG061140.D
 Acq On : 8 May 2024 13:41
 Operator : MA/JU
 Sample : P2404-02
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 TOP-SOIL-1

Quant Time: May 08 14:28:13 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG043024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 01 05:11:25 2024
 Response via : Initial Calibration

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

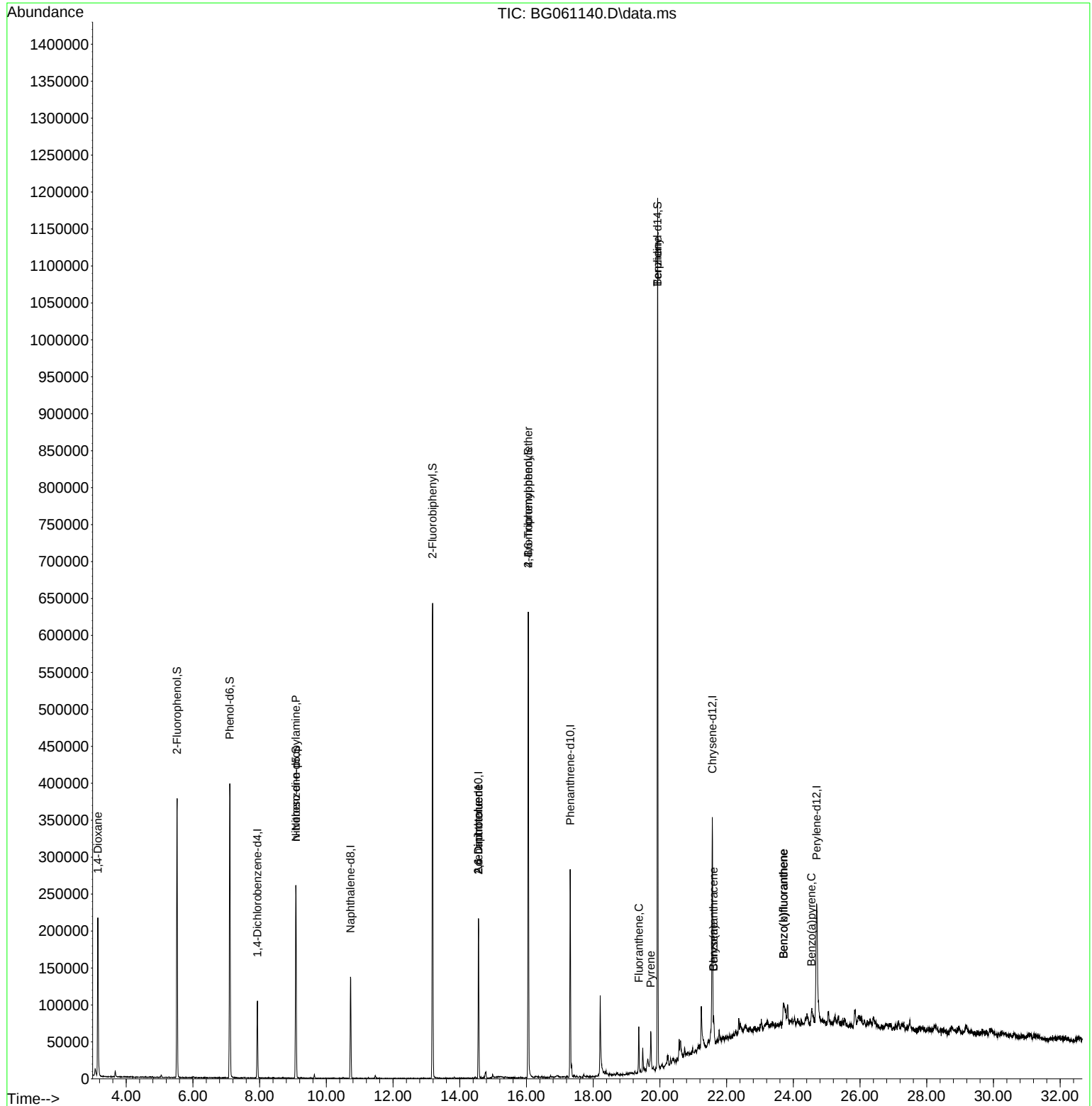
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.934	152	27014	20.000	ng	-0.03
21) Naphthalene-d8	10.725	136	106238	20.000	ng	-0.03
39) Acenaphthene-d10	14.562	164	79760	20.000	ng	-0.03
64) Phenanthrene-d10	17.311	188	184012	20.000	ng	-0.02
76) Chrysene-d12	21.571	240	180829	20.000	ng	-0.02
86) Perylene-d12	24.697	264	220278	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.525	112	135076	101.691	ng	-0.02
7) Phenol-d6	7.106	99	184991	94.145	ng	-0.03
23) Nitrobenzene-d5	9.086	82	131946	61.568	ng	-0.03
42) 2,4,6-Tribromophenol	16.054	330	141190	88.561	ng	-0.02
45) 2-Fluorobiphenyl	13.187	172	346940	64.321	ng	-0.02
79) Terphenyl-d14	19.932	244	603336	55.491	ng	-0.02
Target Compounds					Qvalue	
2) 1,4-Dioxane	3.152	88	1781	3.316	ng	# 1
9) Benzaldehyde	7.112	77	386	Below Cal		# 3
19) n-Nitroso-di-n-propyla...	9.086	70	19769	13.444	ng	# 57
51) 2,6-Dinitrotoluene	14.562	165	10592	8.038	ng	# 16
57) 2,4-Dinitrotoluene	14.562	165	10592	5.433	ng	# 18
67) 4-Bromophenyl-phenylether	16.054	248	8727	4.026	ng	# 1
75) Fluoranthene	19.368	202	39216	3.402	ng	96
77) Benzidine	19.932	184	9532	5.404	ng	# 89
78) Pyrene	19.726	202	35222	3.064	ng	97
81) Benzo(a)anthracene	21.612	228	25612	2.164	ng	95
83) Chrysene	21.612	228	25612	2.310	ng	98
88) Benzo(b)fluoranthene	23.710	252	33425	2.715	ng	# 97
89) Benzo(k)fluoranthene	23.710	252	33425	2.823	ng	# 95
90) Benzo(a)pyrene	24.544	252	22351	2.084	ng	# 95

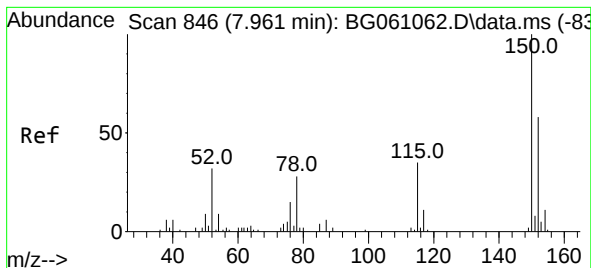
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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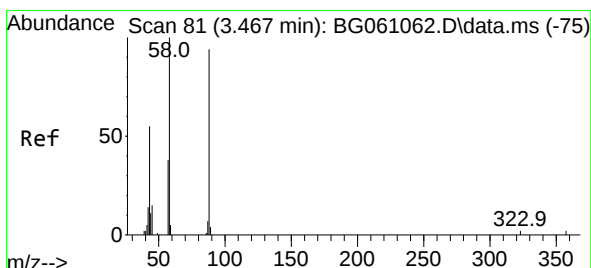
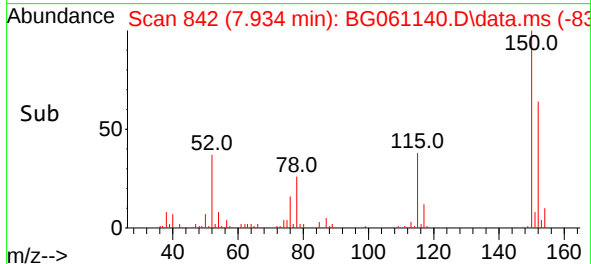
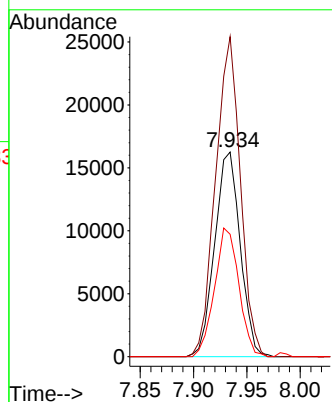
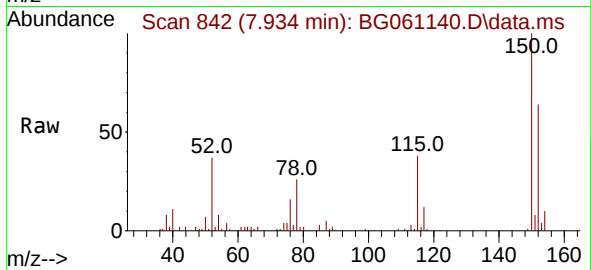




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.934 min Scan# 84
 Delta R.T. -0.027 min
 Lab File: BG061140.D
 Acq: 8 May 2024 13:41

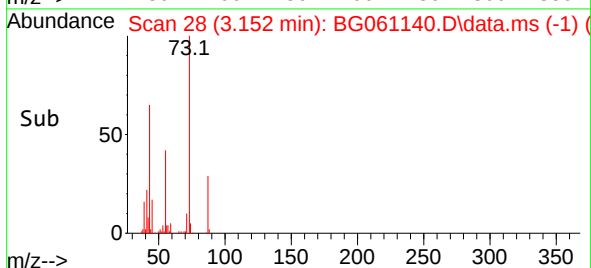
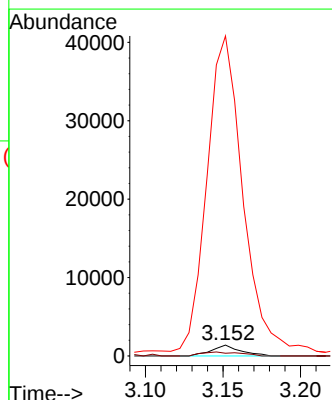
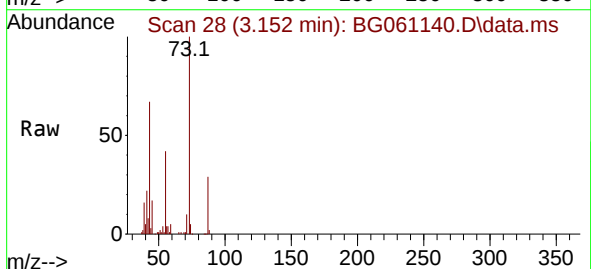
Instrument :
 BNA_G
 ClientSampleId :
 TOP-SOIL-1

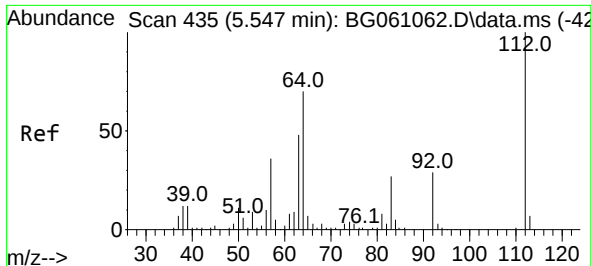
Tgt Ion:152 Resp: 27014
 Ion Ratio Lower Upper
 152 100
 150 156.3 138.3 207.5
 115 59.8 48.0 72.0



#2
 1,4-Dioxane
 Concen: 3.316 ng
 RT: 3.152 min Scan# 28
 Delta R.T. -0.315 min
 Lab File: BG061140.D
 Acq: 8 May 2024 13:41

Tgt Ion: 88 Resp: 1781
 Ion Ratio Lower Upper
 88 100
 58 49.2 81.2 121.8#
 43 3645.6 45.0 67.4#

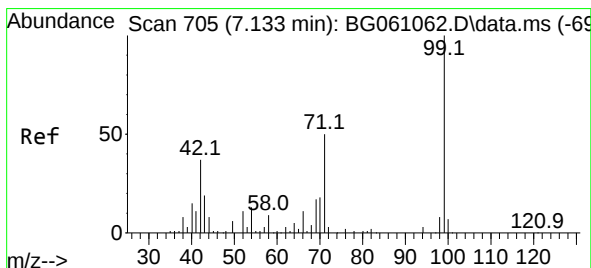
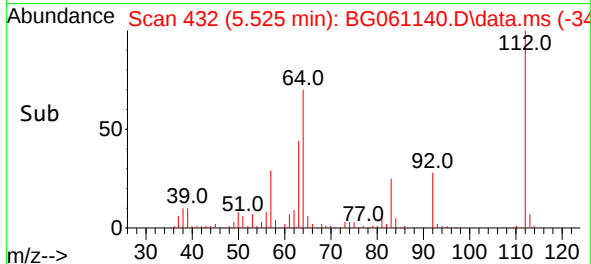
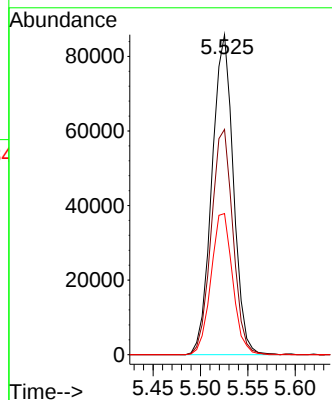
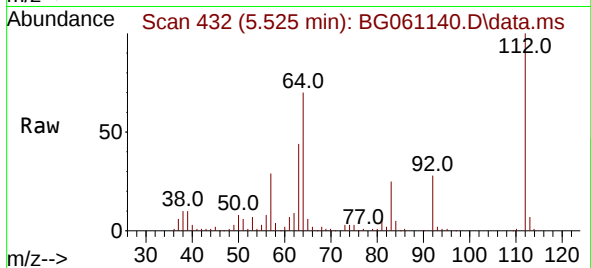




#5
2-Fluorophenol
Concen: 101.691 ng
RT: 5.525 min Scan# 41
Delta R.T. -0.021 min
Lab File: BG061140.D
Acq: 8 May 2024 13:41

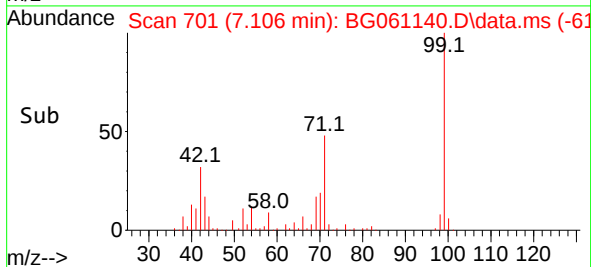
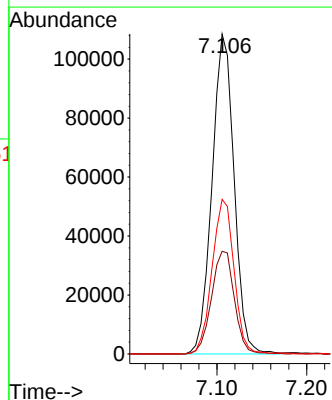
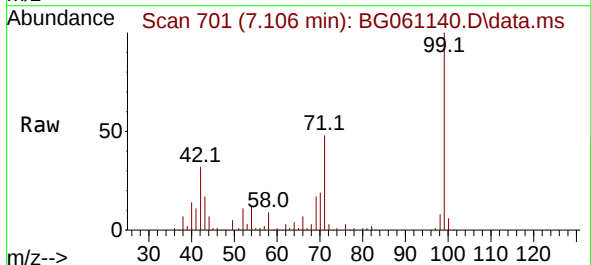
Instrument :
BNA_G
ClientSampleId :
TOP-SOIL-1

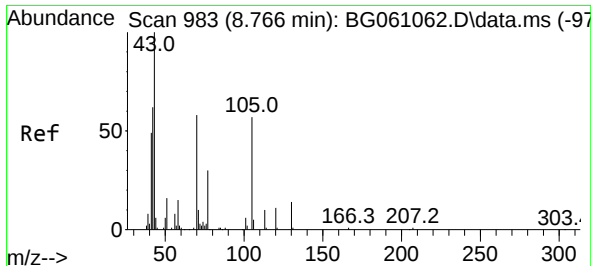
Tgt Ion:112 Resp: 135076
Ion Ratio Lower Upper
112 100
64 70.4 55.7 83.5
63 44.1 38.1 57.1



#7
Phenol-d6
Concen: 94.145 ng
RT: 7.106 min Scan# 701
Delta R.T. -0.027 min
Lab File: BG061140.D
Acq: 8 May 2024 13:41

Tgt Ion: 99 Resp: 184991
Ion Ratio Lower Upper
99 100
42 32.1 29.2 43.8
71 48.3 39.7 59.5





#19

n-Nitroso-di-n-propylamine

Concen: 13.444 ng

RT: 9.086 min Scan# 1038

Delta R.T. 0.319 min

Lab File: BG061140.D

Acq: 8 May 2024 13:41

Instrument :

BNA_G

ClientSampleId :

TOP-SOIL-1

Tgt Ion: 70 Resp: 19769

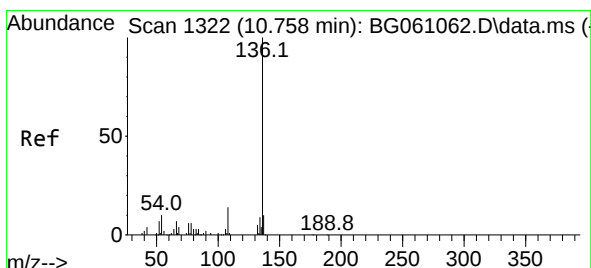
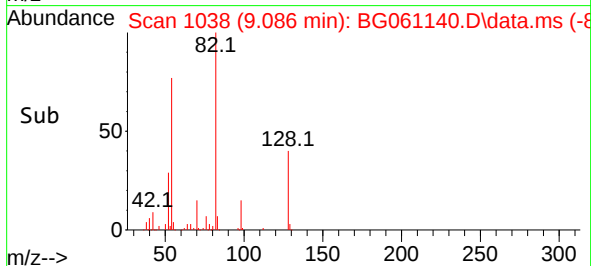
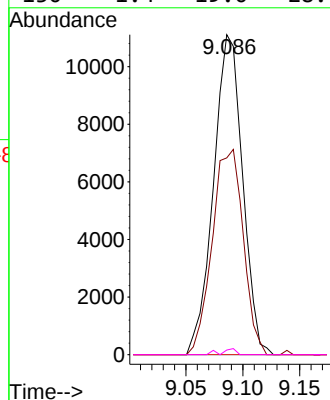
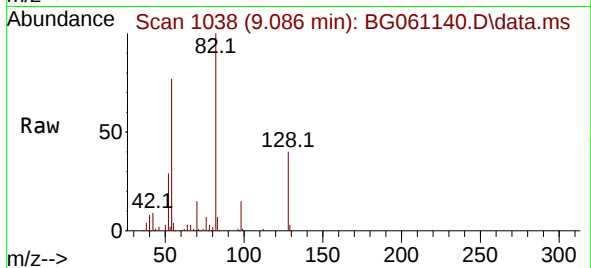
Ion Ratio Lower Upper

70 100

42 61.5 86.4 129.6#

101 0.0 7.8 11.8#

130 1.4 19.0 28.4#



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.725 min Scan# 1317

Delta R.T. -0.033 min

Lab File: BG061140.D

Acq: 8 May 2024 13:41

Tgt Ion:136 Resp: 106238

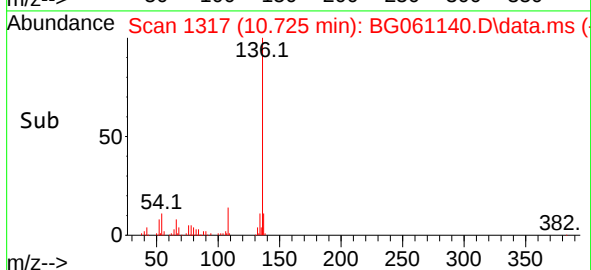
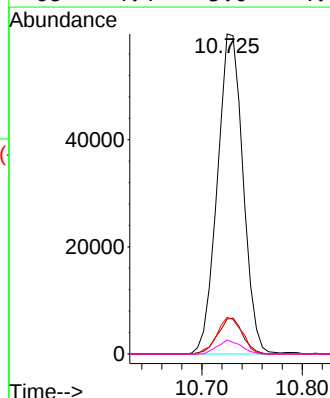
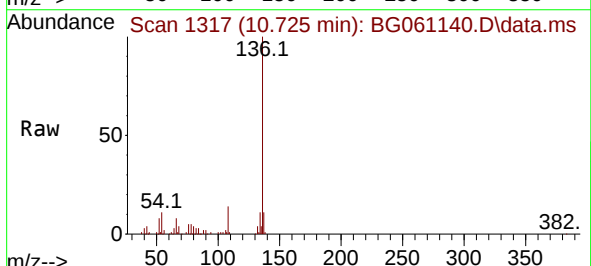
Ion Ratio Lower Upper

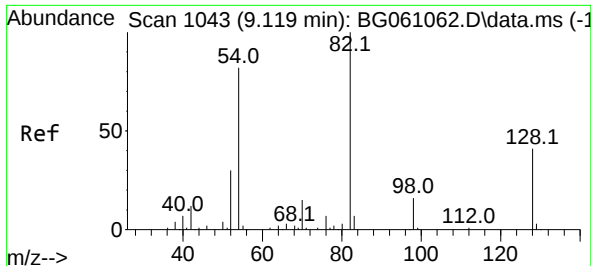
136 100

137 10.9 7.8 11.6

54 11.5 8.1 12.1

68 4.4 3.0 4.4





#23

Nitrobenzene-d5

Concen: 61.568 ng

RT: 9.086 min Scan# 1038

Delta R.T. -0.033 min

Lab File: BG061140.D

Acq: 8 May 2024 13:41

Instrument :

BNA_G

ClientSampleId :

TOP-SOIL-1

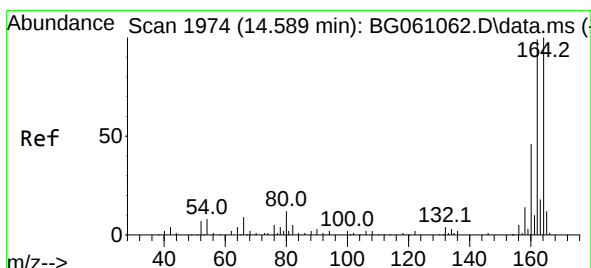
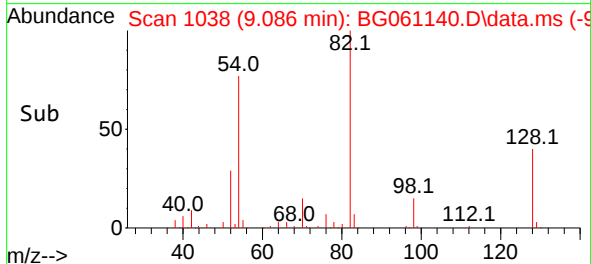
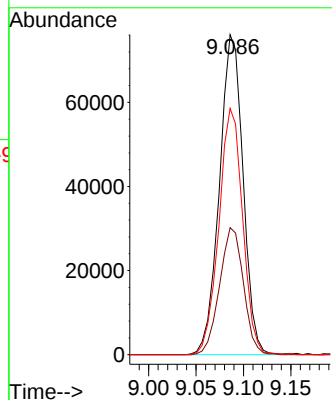
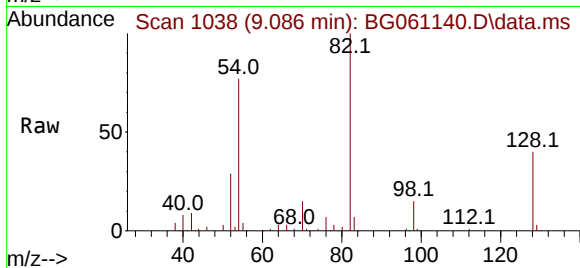
Tgt Ion: 82 Resp: 131946

Ion Ratio Lower Upper

82 100

128 39.7 32.7 49.1

54 77.0 65.6 98.4



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.562 min Scan# 1970

Delta R.T. -0.027 min

Lab File: BG061140.D

Acq: 8 May 2024 13:41

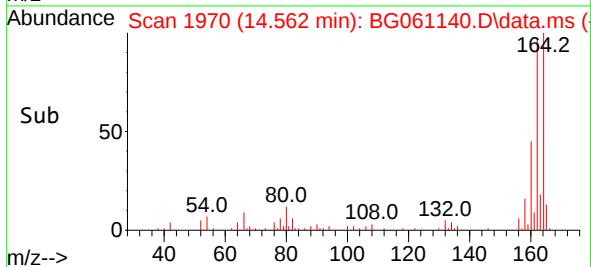
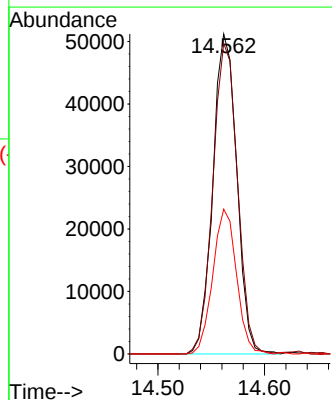
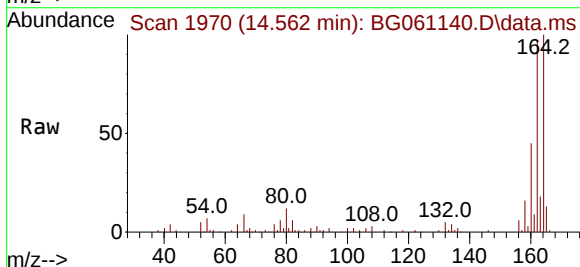
Tgt Ion:164 Resp: 79760

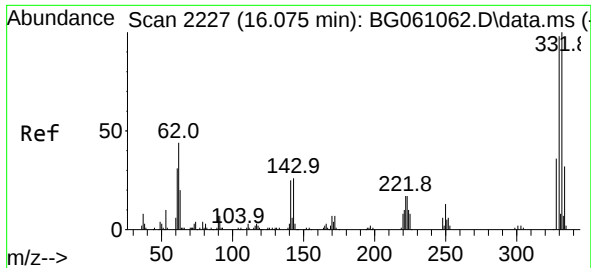
Ion Ratio Lower Upper

164 100

162 97.1 79.4 119.2

160 45.2 37.0 55.6

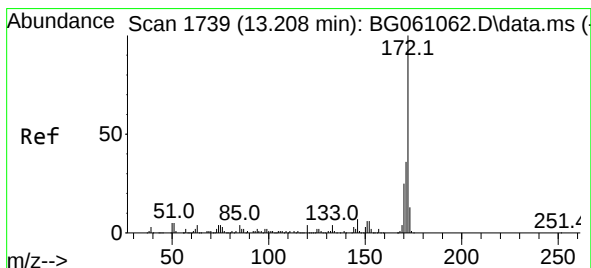
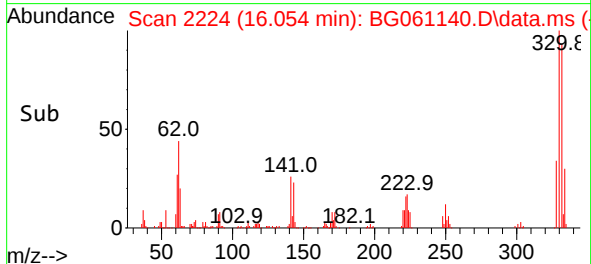
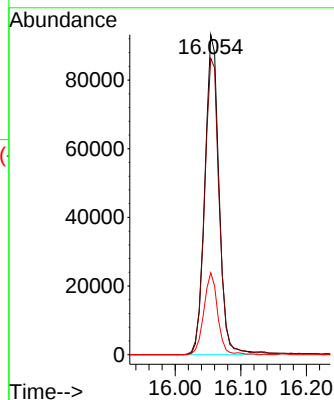
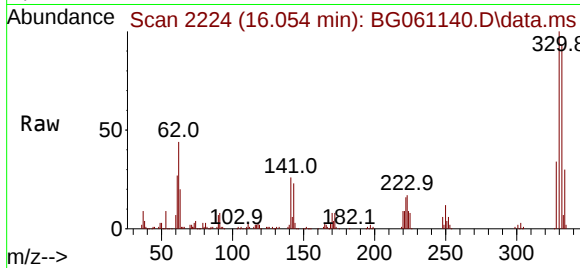




#42
2,4,6-Tribromophenol
Concen: 88.561 ng
RT: 16.054 min Scan# 21
Delta R.T. -0.021 min
Lab File: BG061140.D
Acq: 8 May 2024 13:41

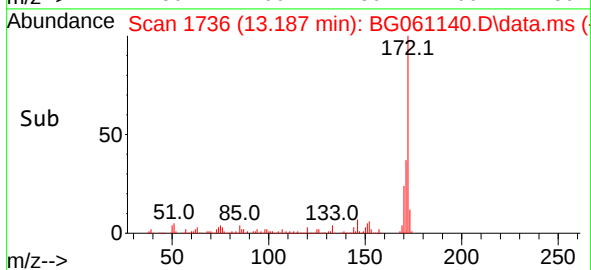
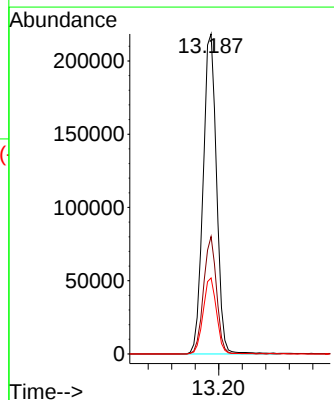
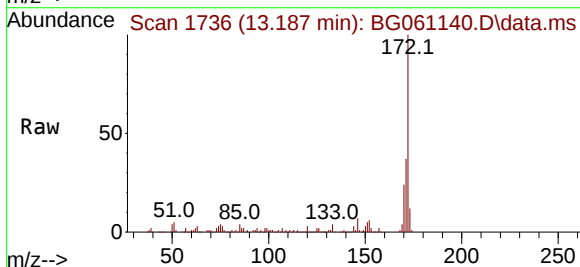
Instrument :
BNA_G
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TOP-SOIL-1

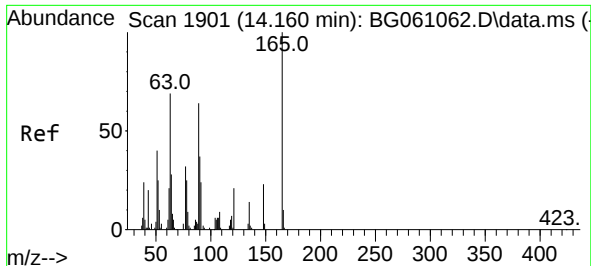
Tgt Ion:330 Resp: 141190
Ion Ratio Lower Upper
330 100
332 94.6 78.6 117.8
141 24.8 20.5 30.7



#45
2-Fluorobiphenyl
Concen: 64.321 ng
RT: 13.187 min Scan# 1736
Delta R.T. -0.021 min
Lab File: BG061140.D
Acq: 8 May 2024 13:41

Tgt Ion:172 Resp: 346940
Ion Ratio Lower Upper
172 100
171 36.7 29.0 43.6
170 23.7 20.2 30.4

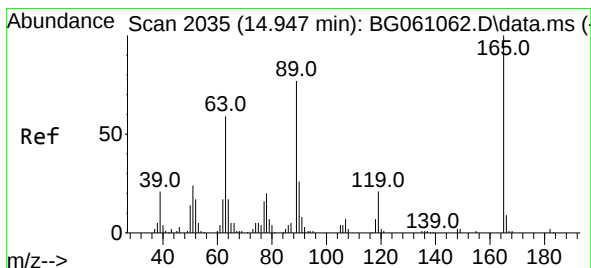
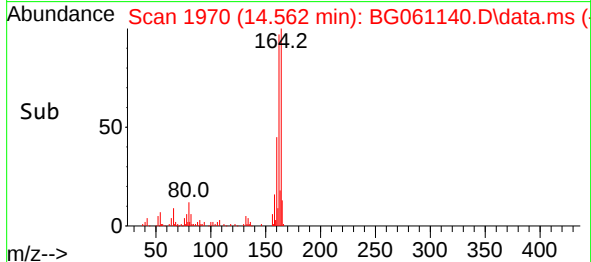
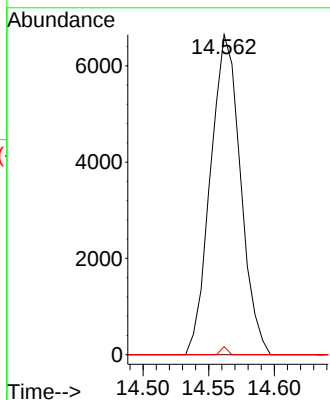
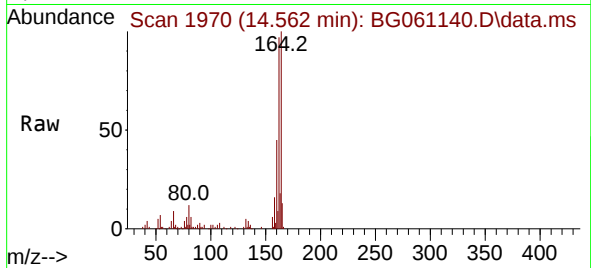




#51
2,6-Dinitrotoluene
Concen: 8.038 ng
RT: 14.562 min Scan# 1901
Delta R.T. 0.402 min
Lab File: BG061140.D
Acq: 8 May 2024 13:41

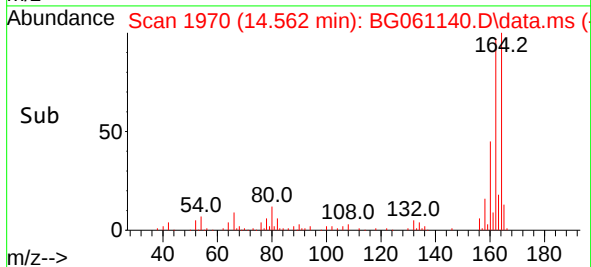
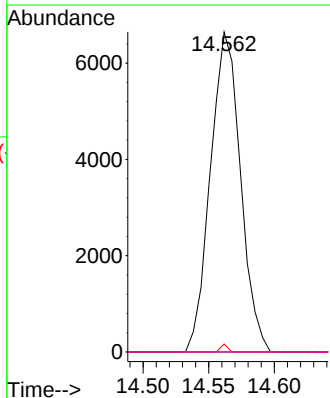
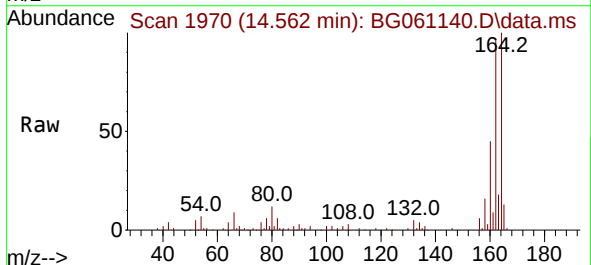
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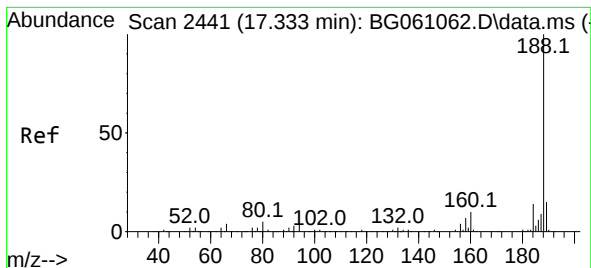
Tgt Ion:165 Resp: 10592
Ion Ratio Lower Upper
165 100
63 0.0 60.0 90.0#
89 2.5 50.9 76.3#



#57
2,4-Dinitrotoluene
Concen: 5.433 ng
RT: 14.562 min Scan# 1970
Delta R.T. -0.386 min
Lab File: BG061140.D
Acq: 8 May 2024 13:41

Tgt Ion:165 Resp: 10592
Ion Ratio Lower Upper
165 100
63 0.0 47.3 70.9#
89 2.5 61.8 92.8#
182 0.0 1.8 2.6#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.311 min Scan# 2441

Delta R.T. -0.021 min

Lab File: BG061140.D

Acq: 8 May 2024 13:41

Instrument :

BNA_G

ClientSampleId :

TOP-SOIL-1

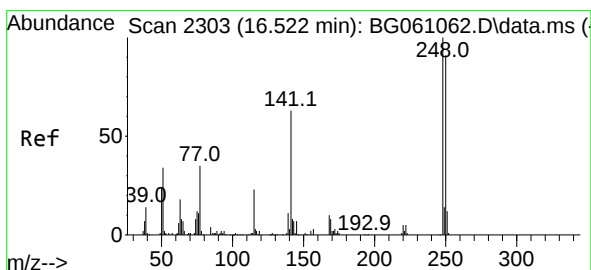
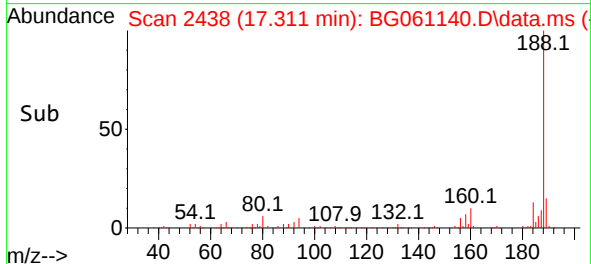
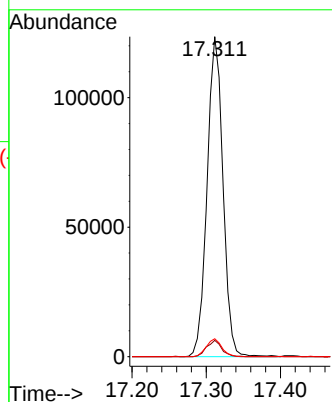
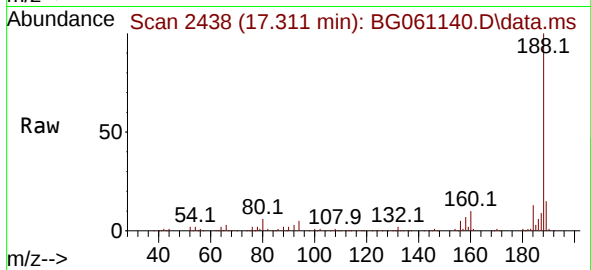
Tgt Ion:188 Resp: 184012

Ion Ratio Lower Upper

188 100

94 5.1 3.6 5.4

80 5.6 4.2 6.2



#67

4-Bromophenyl-phenylether

Concen: 4.026 ng

RT: 16.054 min Scan# 2224

Delta R.T. -0.468 min

Lab File: BG061140.D

Acq: 8 May 2024 13:41

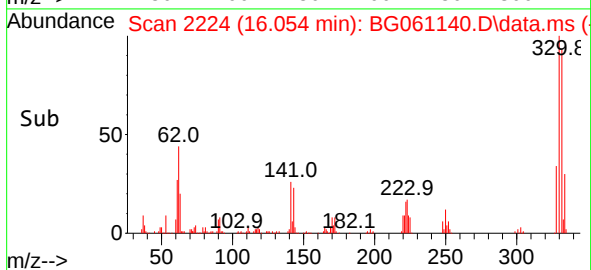
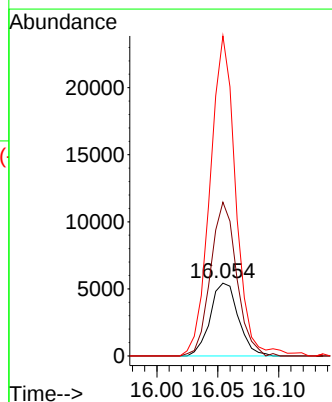
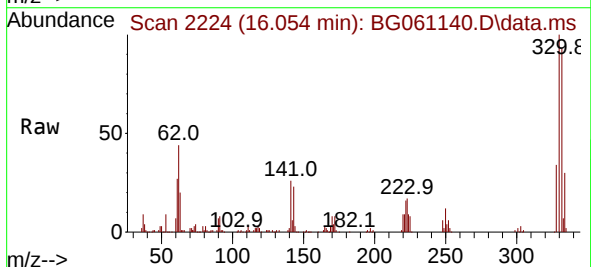
Tgt Ion:248 Resp: 8727

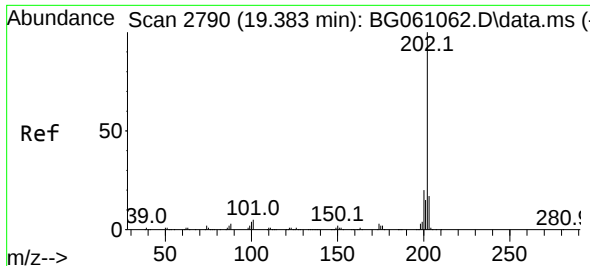
Ion Ratio Lower Upper

248 100

250 210.9 73.0 109.4#

141 439.1 50.8 76.2#

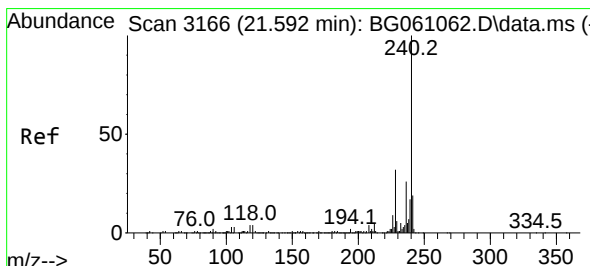
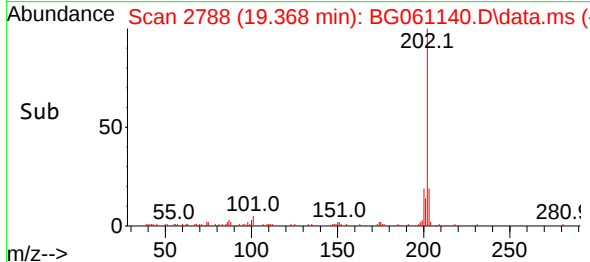
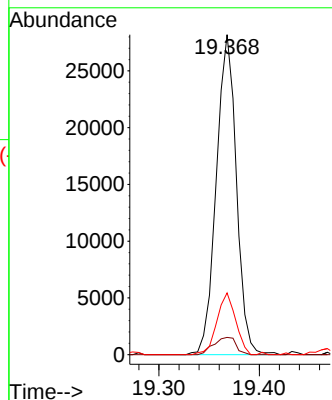
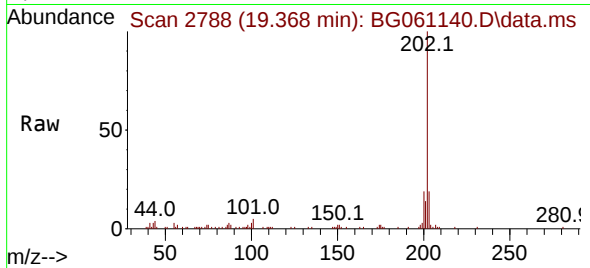




#75
Fluoranthene
Concen: 3.402 ng
RT: 19.368 min Scan# 21
Delta R.T. -0.015 min
Lab File: BG061140.D
Acq: 8 May 2024 13:41

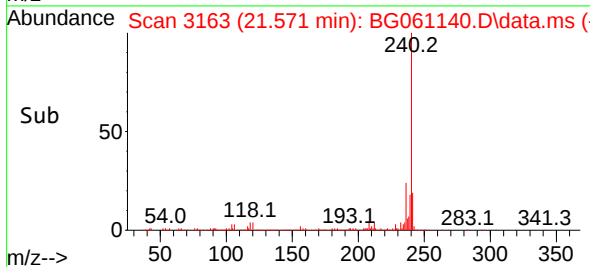
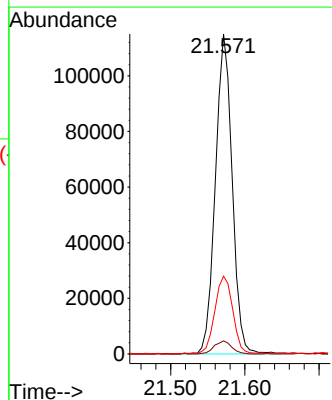
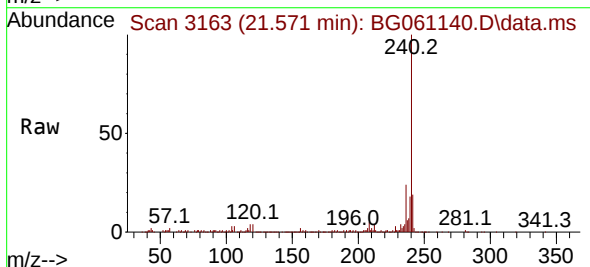
Instrument :
BNA_G
ClientSampleId :
TOP-SOIL-1

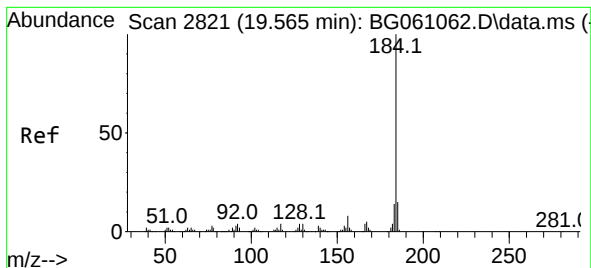
Tgt Ion:202 Resp: 39216
Ion Ratio Lower Upper
202 100
101 5.4 0.0 24.7
203 19.3 0.0 37.1



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.571 min Scan# 3163
Delta R.T. -0.021 min
Lab File: BG061140.D
Acq: 8 May 2024 13:41

Tgt Ion:240 Resp: 180829
Ion Ratio Lower Upper
240 100
120 4.1 3.2 4.8
236 24.3 21.0 31.6





#77

Benzidine

Concen: 5.404 ng

RT: 19.932 min Scan# 2884

Delta R.T. 0.367 min

Lab File: BG061140.D

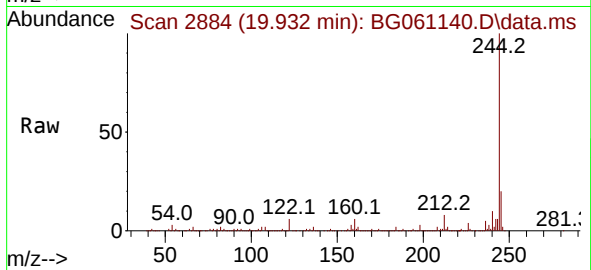
Acq: 8 May 2024 13:41

Instrument :

BNA_G

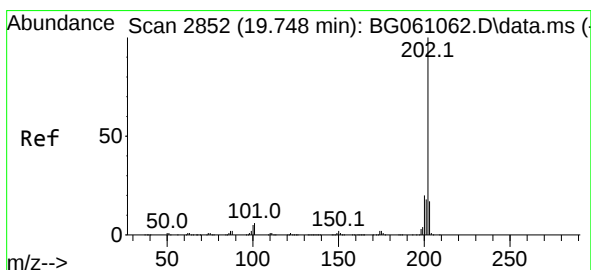
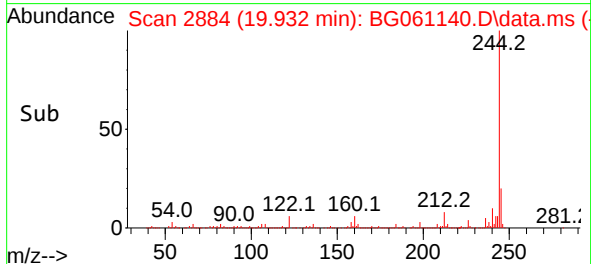
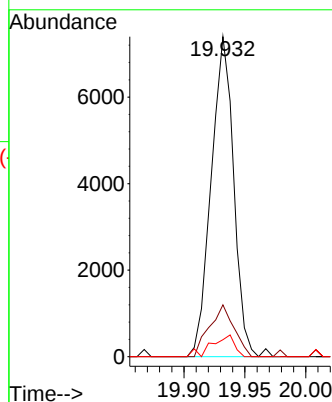
ClientSampleId :

TOP-SOIL-1



Tgt Ion:184 Resp: 9532

Ion	Ratio	Lower	Upper
184	100		
185	16.2	12.0	18.0
183	5.3	10.9	16.3



#78

Pyrene

Concen: 3.064 ng

RT: 19.726 min Scan# 2849

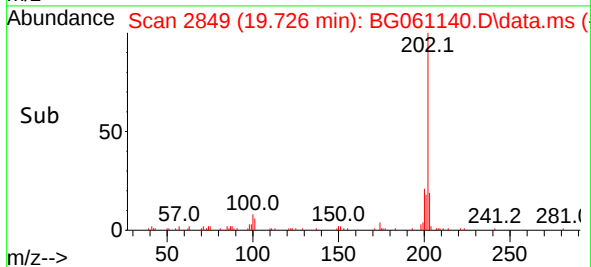
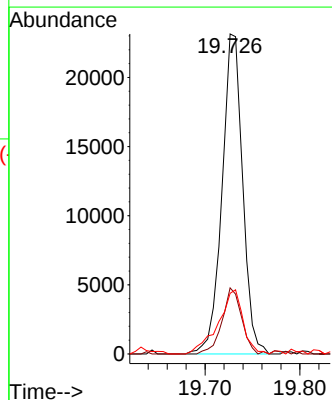
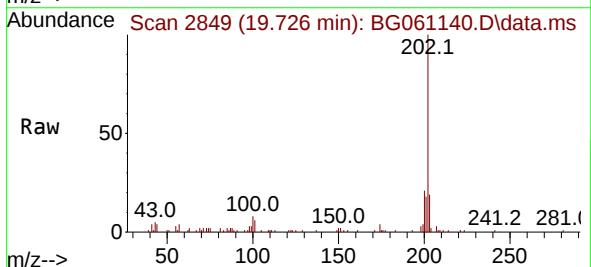
Delta R.T. -0.021 min

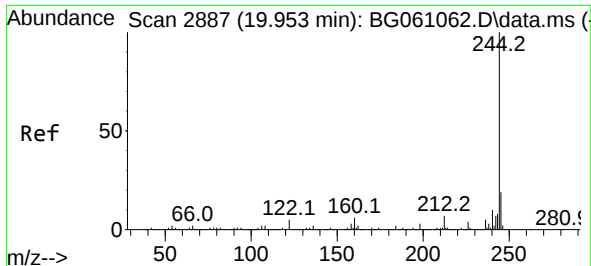
Lab File: BG061140.D

Acq: 8 May 2024 13:41

Tgt Ion:202 Resp: 35222

Ion	Ratio	Lower	Upper
202	100		
200	20.6	16.2	24.4
203	19.0	13.3	19.9

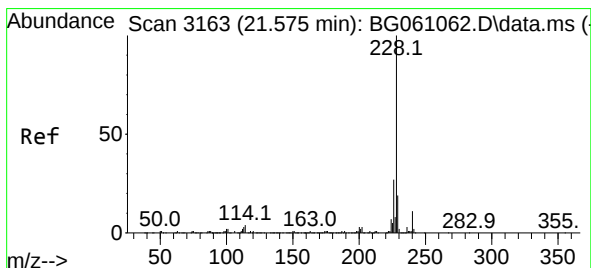
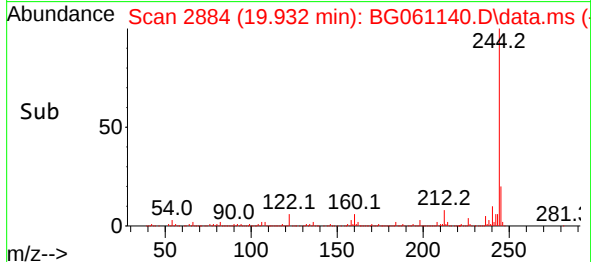
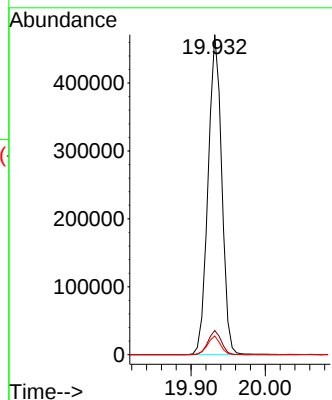
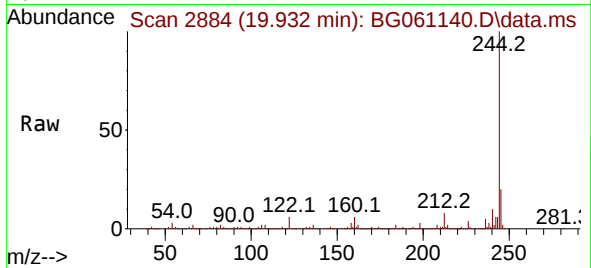




#79
 Terphenyl-d14
 Concen: 55.491 ng
 RT: 19.932 min Scan# 21
 Delta R.T. -0.021 min
 Lab File: BG061140.D
 Acq: 8 May 2024 13:41

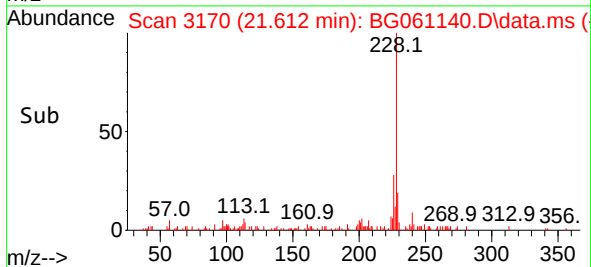
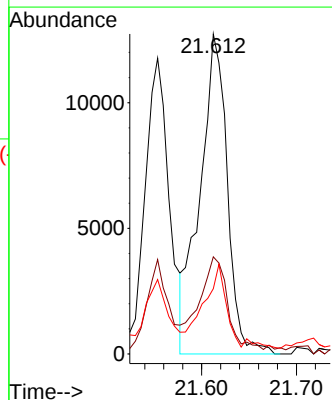
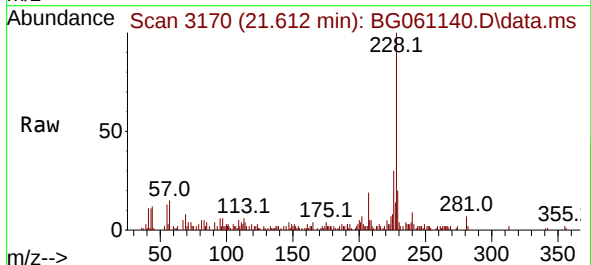
Instrument :
 BNA_G
 ClientSampleId :
 TOP-SOIL-1

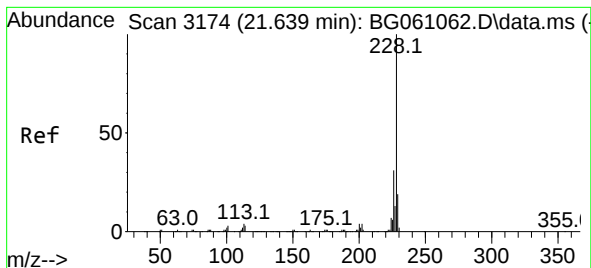
Tgt Ion:244 Resp: 603336
 Ion Ratio Lower Upper
 244 100
 212 7.6 5.7 8.5
 122 5.8 4.2 6.2



#81
 Benzo(a)anthracene
 Concen: 2.164 ng
 RT: 21.612 min Scan# 3170
 Delta R.T. 0.037 min
 Lab File: BG061140.D
 Acq: 8 May 2024 13:41

Tgt Ion:228 Resp: 25612
 Ion Ratio Lower Upper
 228 100
 226 30.4 21.6 32.4
 229 20.4 15.0 22.4





#83

Chrysene

Concen: 2.310 ng

RT: 21.612 min Scan# 3174

Delta R.T. -0.027 min

Lab File: BG061140.D

Acq: 8 May 2024 13:41

Instrument :

BNA_G

ClientSampleId :

TOP-SOIL-1

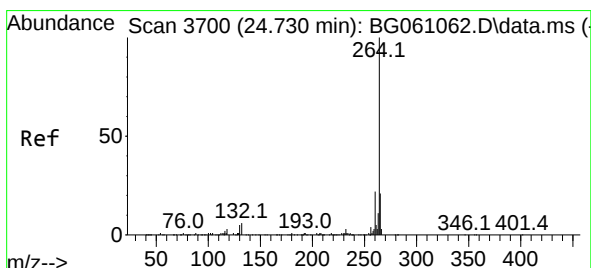
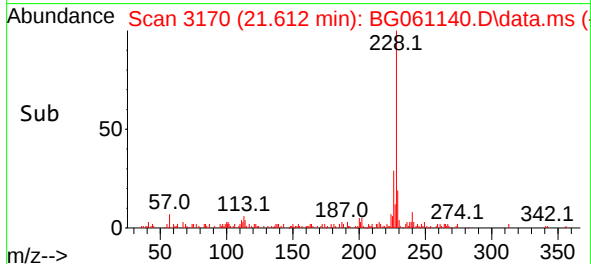
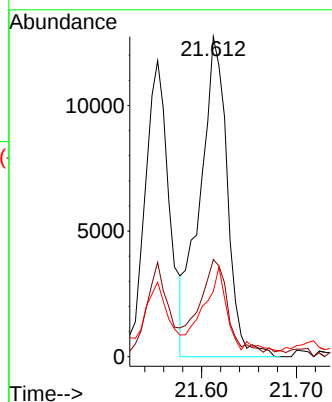
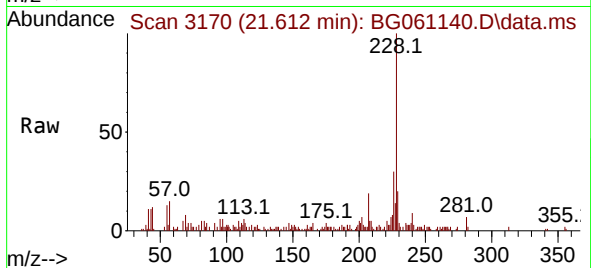
Tgt Ion:228 Resp: 25612

Ion Ratio Lower Upper

228 100

226 30.4 24.4 36.6

229 20.4 14.8 22.2



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.697 min Scan# 3695

Delta R.T. -0.033 min

Lab File: BG061140.D

Acq: 8 May 2024 13:41

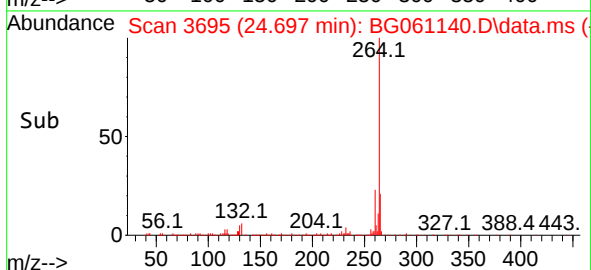
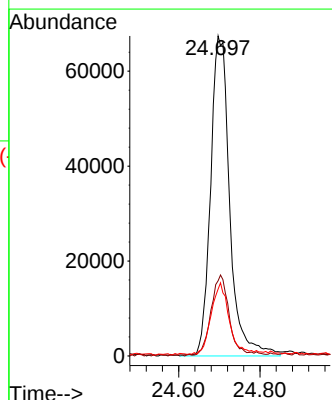
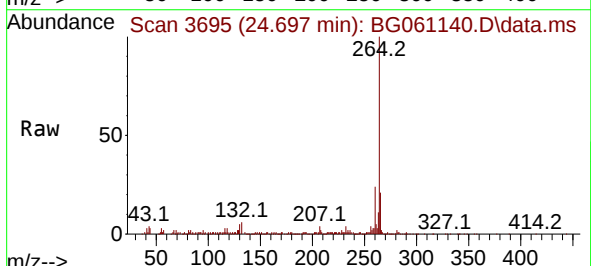
Tgt Ion:264 Resp: 220278

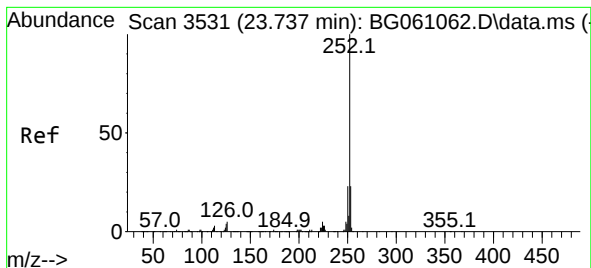
Ion Ratio Lower Upper

264 100

260 23.5 17.7 26.5

265 20.9 16.4 24.6





#88

Benzo(b)fluoranthene

Concen: 2.715 ng

RT: 23.710 min Scan# 3527

Delta R.T. -0.027 min

Lab File: BG061140.D

Acq: 8 May 2024 13:41

Instrument :

BNA_G

ClientSampleId :

TOP-SOIL-1

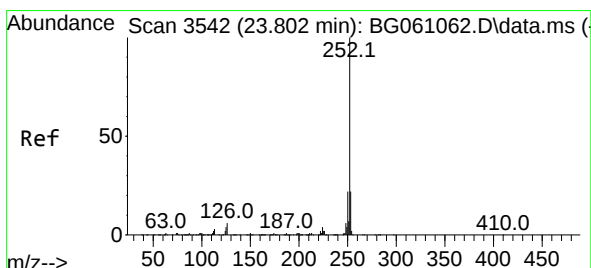
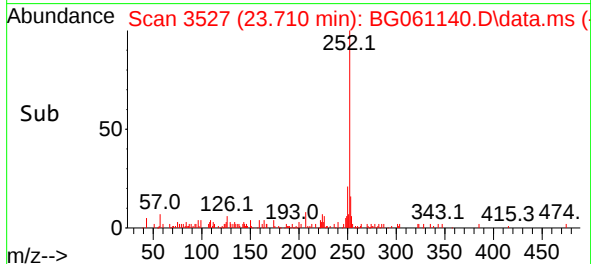
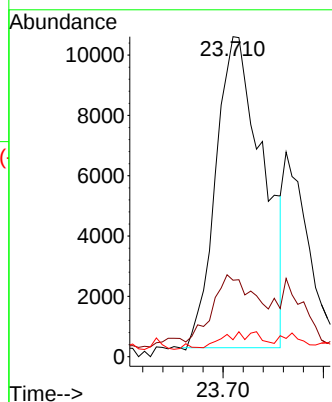
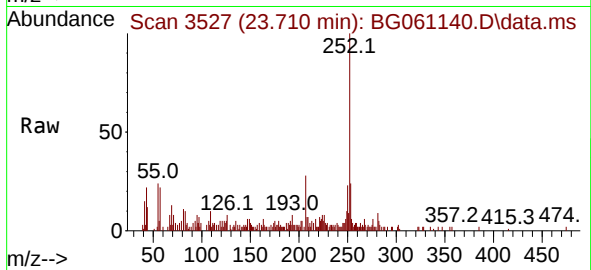
Tgt Ion:252 Resp: 33425

Ion Ratio Lower Upper

252 100

253 23.9 18.2 27.2

125 5.3 3.4 5.0#



#89

Benzo(k)fluoranthene

Concen: 2.823 ng

RT: 23.710 min Scan# 3527

Delta R.T. -0.092 min

Lab File: BG061140.D

Acq: 8 May 2024 13:41

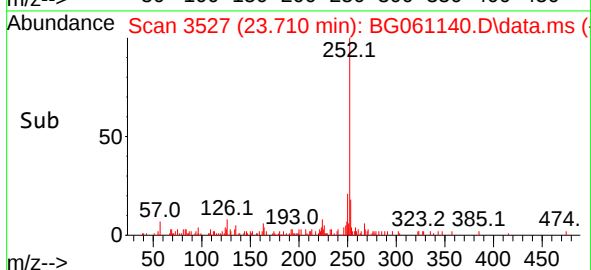
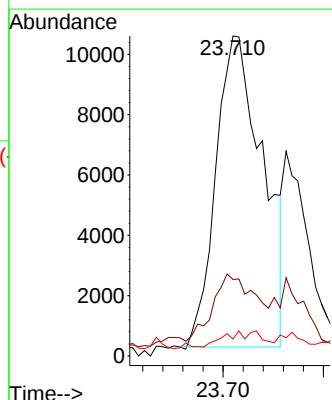
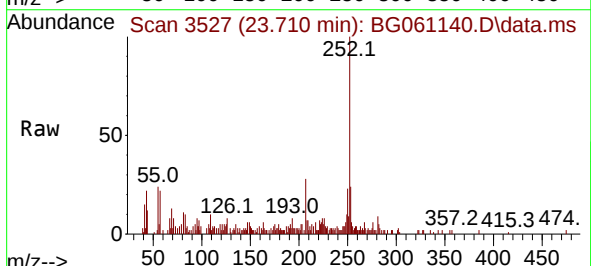
Tgt Ion:252 Resp: 33425

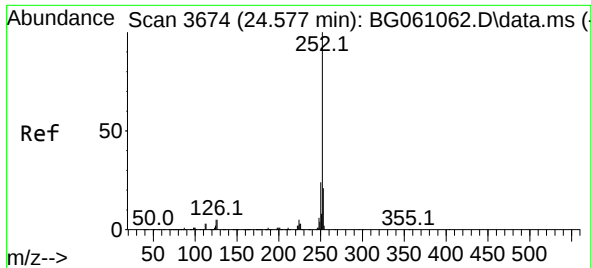
Ion Ratio Lower Upper

252 100

253 23.9 17.3 25.9

125 5.3 3.2 4.8#





#90
 Benzo(a)pyrene
 Concen: 2.084 ng
 RT: 24.544 min Scan# 30
 Delta R.T. -0.033 min
 Lab File: BG061140.D
 Acq: 8 May 2024 13:41

Instrument :
 BNA_G
 ClientSampleId :
 TOP-SOIL-1

Tgt Ion:252 Resp: 22351
 Ion Ratio Lower Upper
 252 100
 253 23.4 16.9 25.3
 125 7.2 3.8 5.8#

