

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM080223\
 Data File : BM041238.D
 Acq On : 02 Aug 2023 10:58
 Operator : MA/JU
 Sample : 03849-01
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 GROVE-SOIL-0731

Quant Time: Aug 03 03:05:35 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 02 19:20:51 2023
 Response via : Initial Calibration

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

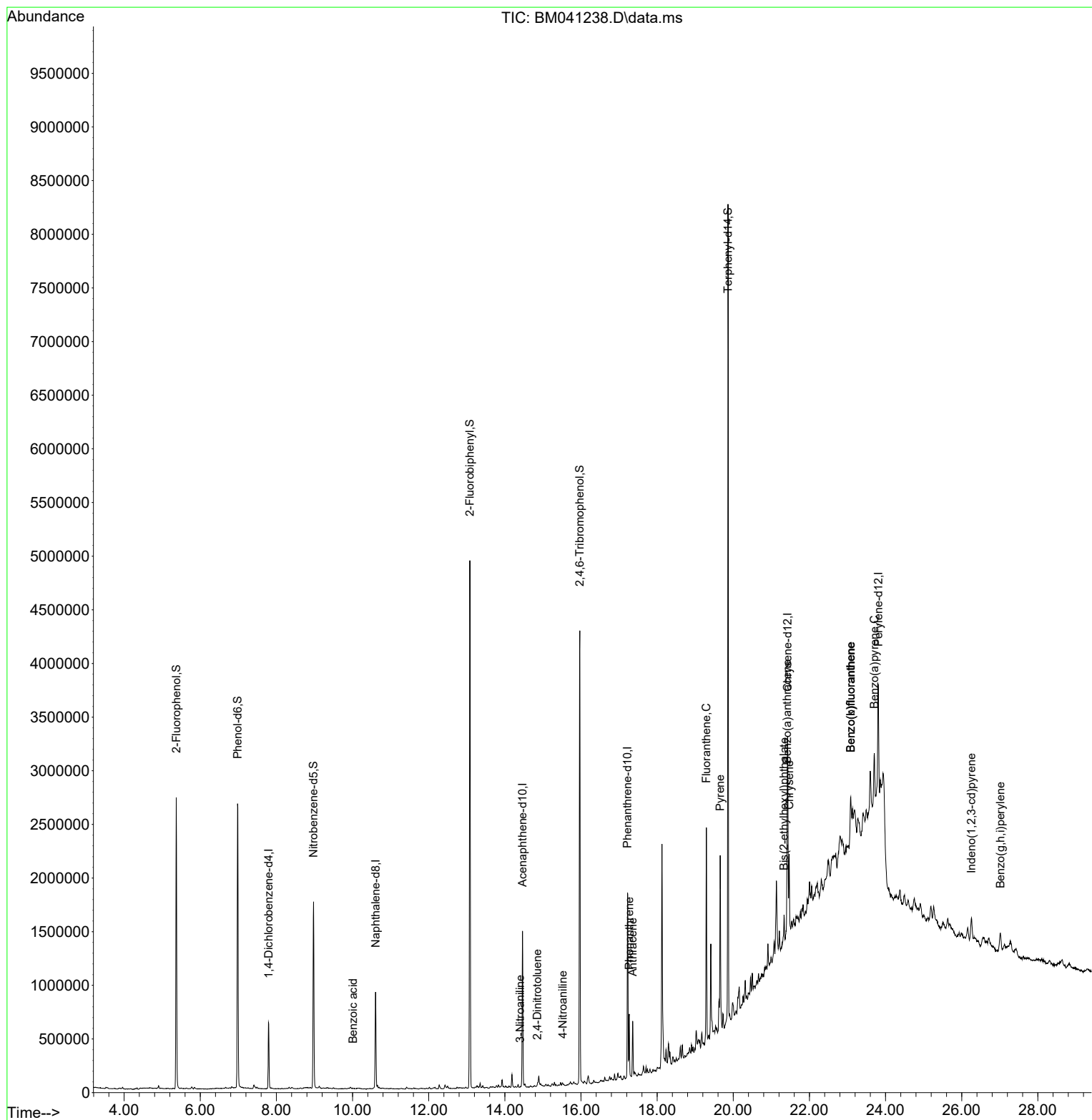
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.793	152	160631	20.000	ng	0.00
21) Naphthalene-d8	10.604	136	695123	20.000	ng	0.00
39) Acenaphthene-d10	14.463	164	456459	20.000	ng	0.00
64) Phenanthrene-d10	17.221	188	1025566	20.000	ng	0.00
76) Chrysene-d12	21.427	240	686200	20.000	ng	0.00
86) Perylene-d12	23.809	264	735875	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.369	112	1108414	103.132	ng	0.00
7) Phenol-d6	6.981	99	1512828	108.591	ng	0.00
23) Nitrobenzene-d5	8.975	82	985526	65.933	ng	0.00
42) 2,4,6-Tribromophenol	15.968	330	785937	121.730	ng	0.00
45) 2-Fluorobiphenyl	13.080	172	2382630	65.939	ng	0.00
79) Terphenyl-d14	19.862	244	3584221	94.440	ng	0.00
Target Compounds						Qvalue
32) Benzoic acid	10.010	122	312	7.189	ng	# 1
53) 3-Nitroaniline	14.398	138	172	2.597	ng	# 1
57) 2,4-Dinitrotoluene	14.851	165	285	2.697	ng	# 36
62) 4-Nitroaniline	15.521	138	477	4.205	ng	# 61
71) Phenanthrene	17.268	178	346016	6.072	ng	99
72) Anthracene	17.357	178	317758	5.638	ng	99
75) Fluoranthene	19.292	202	1060057	16.559	ng	99
78) Pyrene	19.656	202	956157	19.925	ng	99
81) Benzo(a)anthracene	21.415	228	434067	9.331	ng	97
83) Chrysene	21.468	228	428378	9.521	ng	98
84) Bis(2-ethylhexyl)phtha...	21.333	149	71433	4.970	ng	# 98
87) Indeno(1,2,3-cd)pyrene	26.256	276	226629	4.189	ng	# 93
88) Benzo(b)fluoranthene	23.086	252	624790	14.292	ng	# 95
89) Benzo(k)fluoranthene	23.086	252	624790	13.972	ng	# 94
90) Benzo(a)pyrene	23.703	252	307968	7.332	ng	93
92) Benzo(g,h,i)perylene	27.015	276	235807	5.340	ng	98

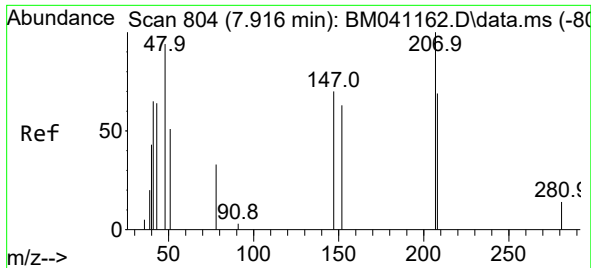
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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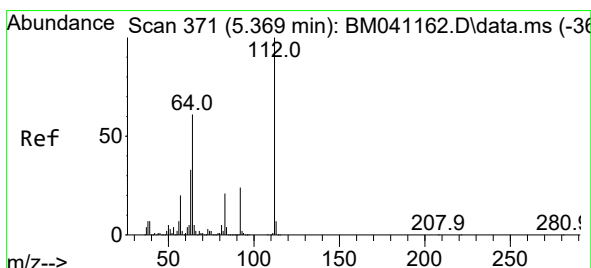
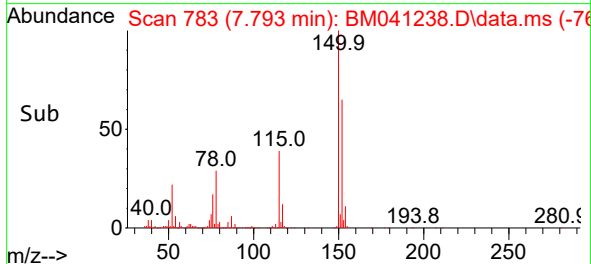
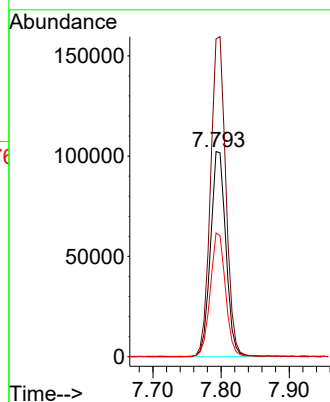
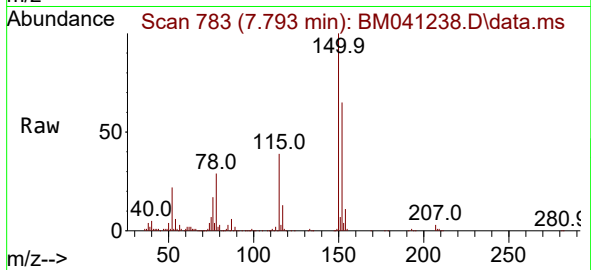




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.793 min Scan# 71
Delta R.T. -0.000 min
Lab File: BM041238.D
Acq: 02 Aug 2023 10:58

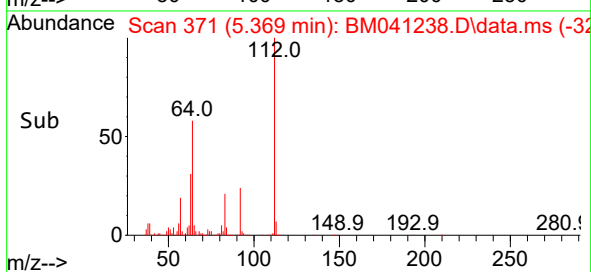
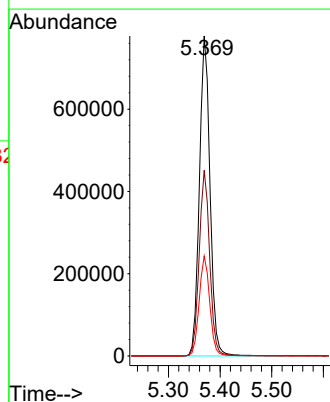
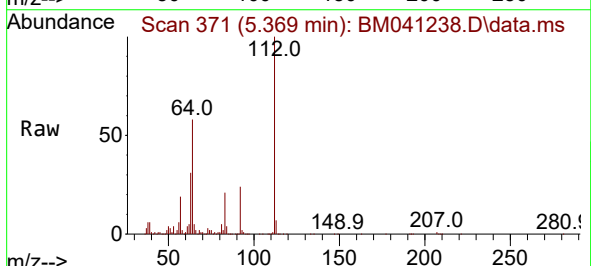
Instrument :
BNA_M
ClientSampleId :
GROVE-SOIL-0731

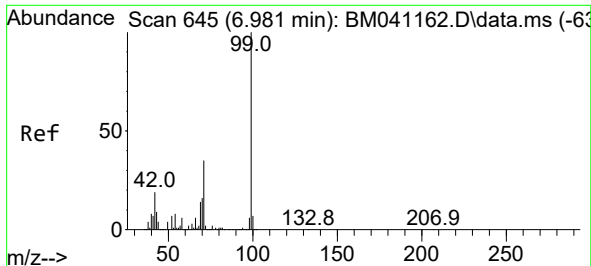
Tgt Ion:152 Resp: 160631
Ion Ratio Lower Upper
152 100
150 154.8 125.5 188.3
115 60.3 48.0 72.0



#5
2-Fluorophenol
Concen: 103.132 ng
RT: 5.369 min Scan# 371
Delta R.T. -0.000 min
Lab File: BM041238.D
Acq: 02 Aug 2023 10:58

Tgt Ion:112 Resp: 1108414
Ion Ratio Lower Upper
112 100
64 58.0 48.5 72.7
63 31.3 26.5 39.7

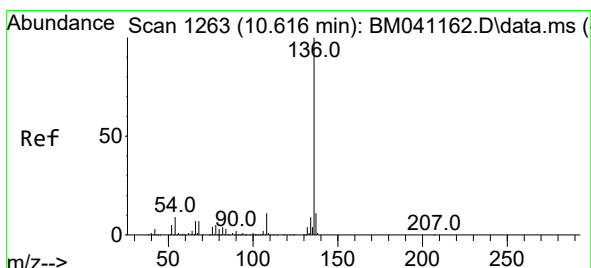
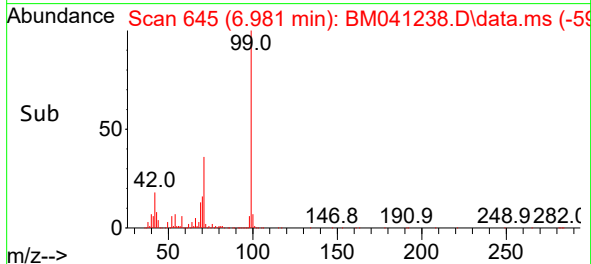
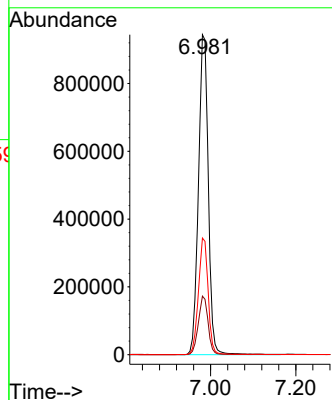
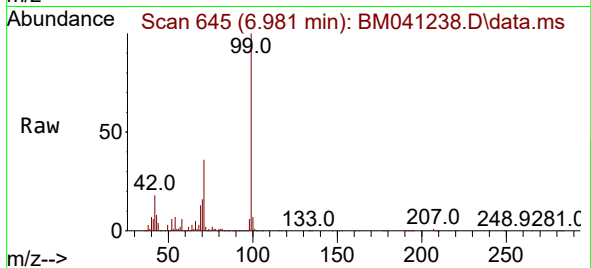




#7
Phenol-d6
Concen: 108.591 ng
RT: 6.981 min Scan# 645
Delta R.T. -0.000 min
Lab File: BM041238.D
Acq: 02 Aug 2023 10:58

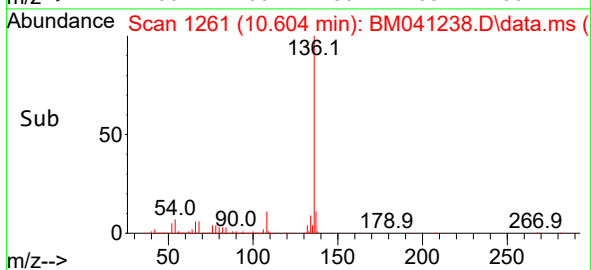
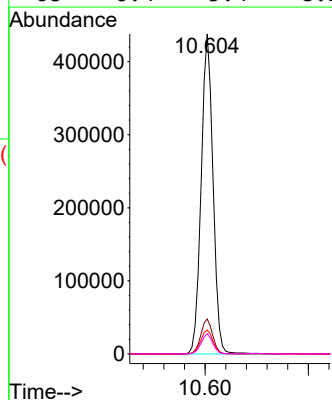
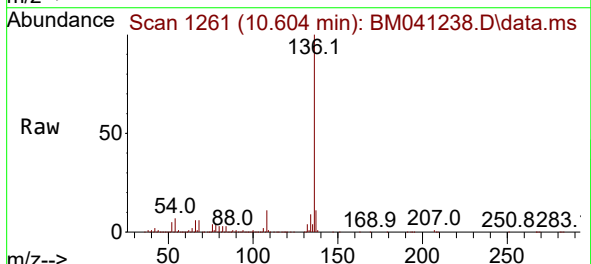
Instrument :
BNA_M
ClientSampleId :
GROVE-SOIL-0731

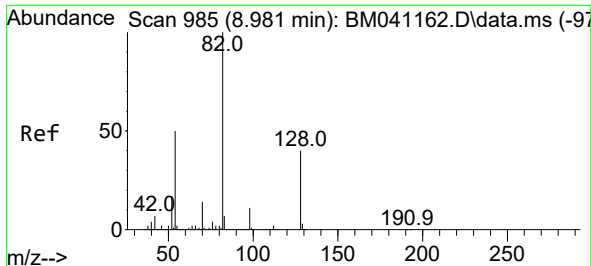
Tgt Ion: 99 Resp: 1512828
Ion Ratio Lower Upper
99 100
42 18.3 15.4 23.0
71 36.5 28.2 42.4



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.604 min Scan# 1261
Delta R.T. -0.000 min
Lab File: BM041238.D
Acq: 02 Aug 2023 10:58

Tgt Ion: 136 Resp: 695123
Ion Ratio Lower Upper
136 100
137 11.0 8.8 13.2
54 7.5 6.9 10.3
68 6.4 5.4 8.2

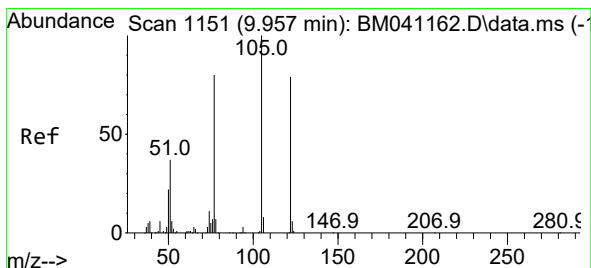
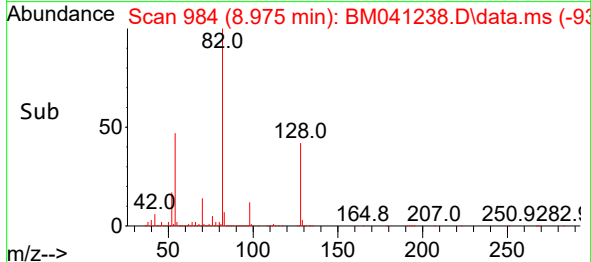
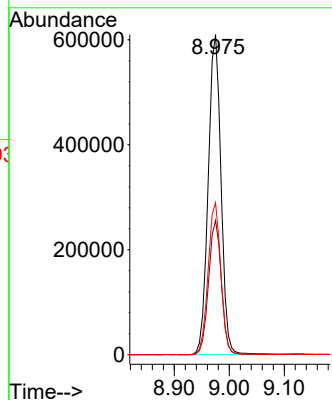
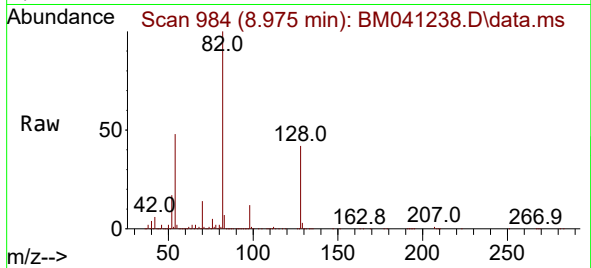




#23
Nitrobenzene-d5
Concen: 65.933 ng
RT: 8.975 min Scan# 91
Delta R.T. -0.000 min
Lab File: BM041238.D
Acq: 02 Aug 2023 10:58

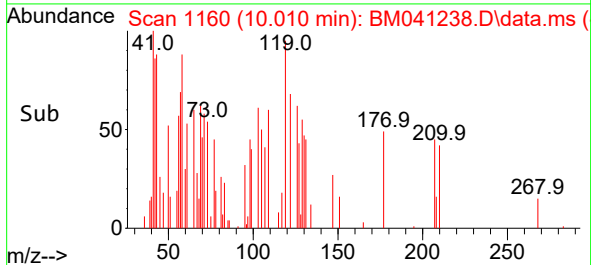
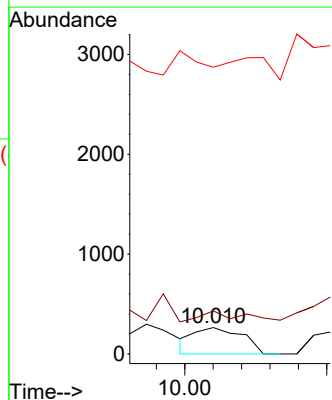
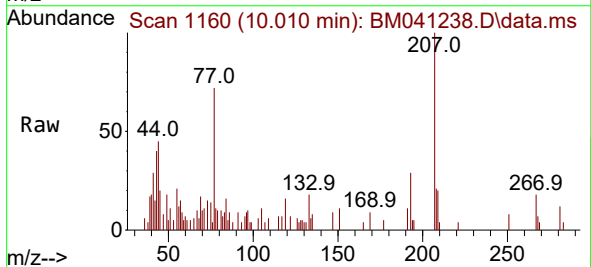
Instrument :
BNA_M
ClientSampleId :
GROVE-SOIL-0731

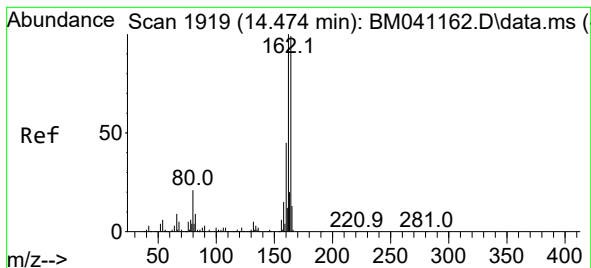
Tgt Ion: 82 Resp: 985526
Ion Ratio Lower Upper
82 100
128 42.0 31.8 47.6
54 47.5 40.1 60.1



#32
Benzoic acid
Concen: 7.189 ng
RT: 10.010 min Scan# 1160
Delta R.T. 0.053 min
Lab File: BM041238.D
Acq: 02 Aug 2023 10:58

Tgt Ion: 122 Resp: 312
Ion Ratio Lower Upper
122 100
105 163.6 104.0 144.0#
77 1087.5 79.9 119.9#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.463 min Scan# 1917

Delta R.T. -0.000 min

Lab File: BM041238.D

Acq: 02 Aug 2023 10:58

Instrument :

BNA_M

ClientSampleId :

GROVE-SOIL-0731

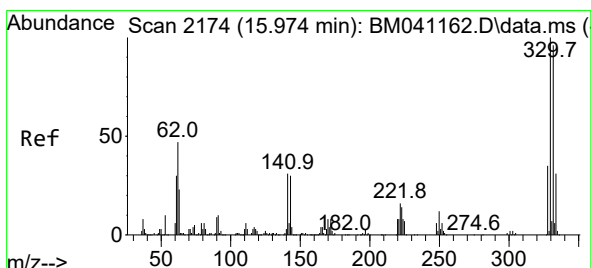
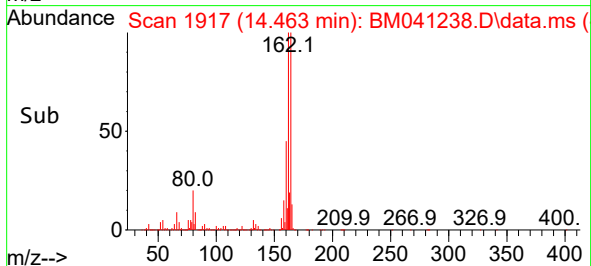
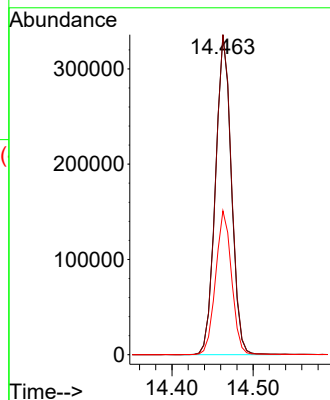
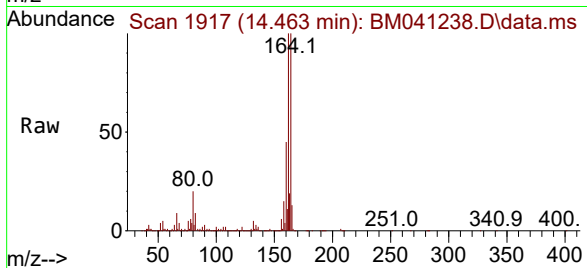
Tgt Ion:164 Resp: 456459

Ion Ratio Lower Upper

164 100

162 100.0 80.4 120.6

160 45.0 36.2 54.2



#42

2,4,6-Tribromophenol

Concen: 121.730 ng

RT: 15.968 min Scan# 2173

Delta R.T. -0.000 min

Lab File: BM041238.D

Acq: 02 Aug 2023 10:58

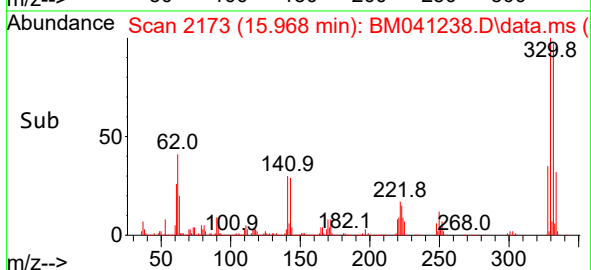
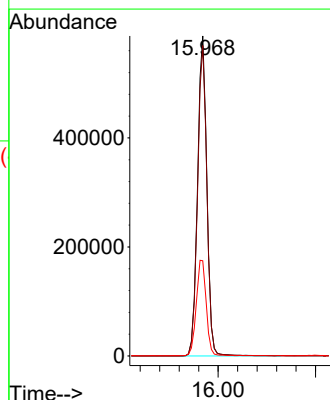
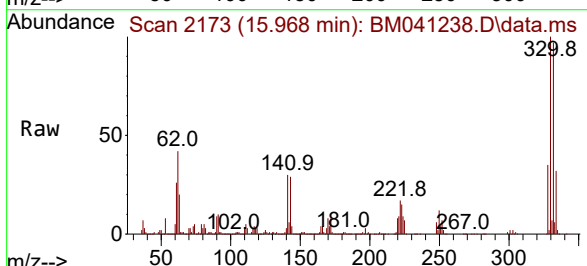
Tgt Ion:330 Resp: 785937

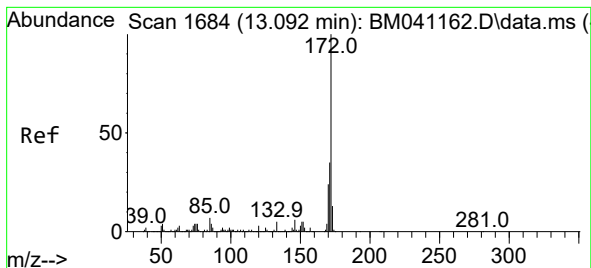
Ion Ratio Lower Upper

330 100

332 96.8 77.7 116.5

141 31.7 28.3 42.5





#45

2-Fluorobiphenyl

Concen: 65.939 ng

RT: 13.080 min Scan# 1

Delta R.T. -0.000 min

Lab File: BM041238.D

Acq: 02 Aug 2023 10:58

Instrument :

BNA_M

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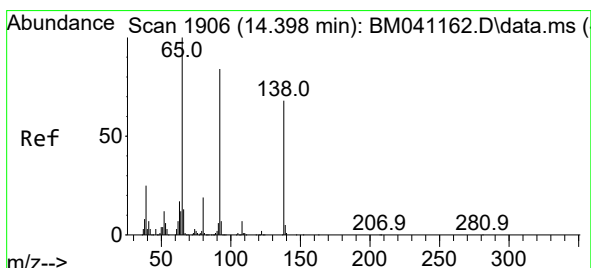
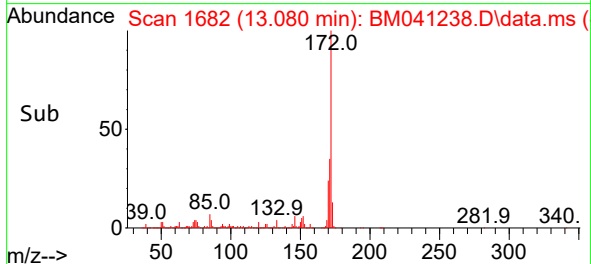
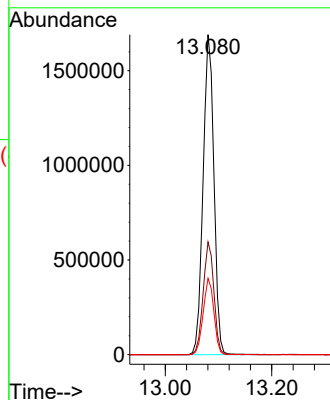
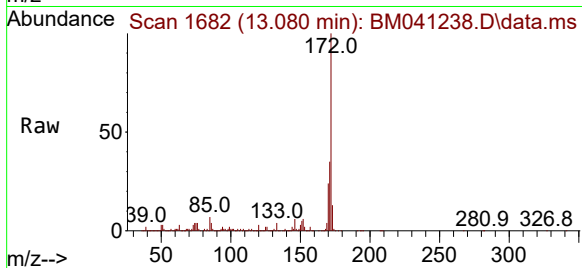
Tgt Ion:172 Resp: 2382630

Ion Ratio Lower Upper

172 100

171 35.2 28.1 42.1

170 23.9 18.9 28.3



#53

3-Nitroaniline

Concen: 2.597 ng

RT: 14.398 min Scan# 1906

Delta R.T. 0.006 min

Lab File: BM041238.D

Acq: 02 Aug 2023 10:58

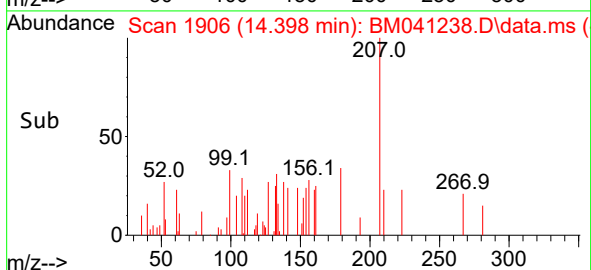
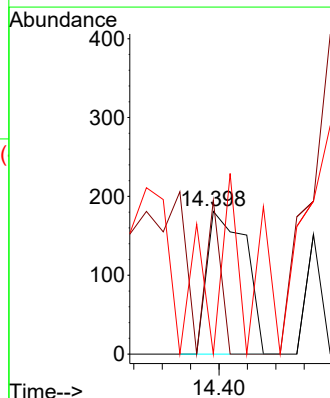
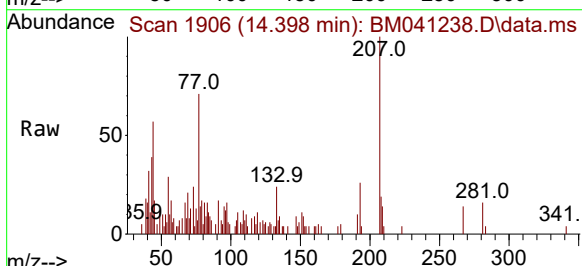
Tgt Ion:138 Resp: 172

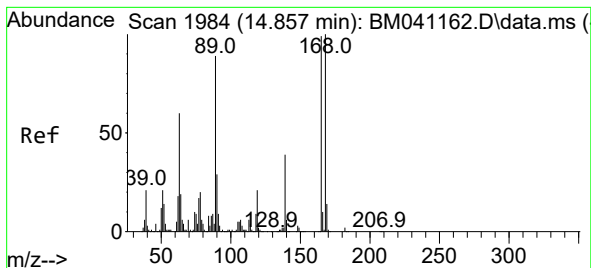
Ion Ratio Lower Upper

138 100

108 107.7 7.6 11.4#

92 0.0 98.9 148.3#

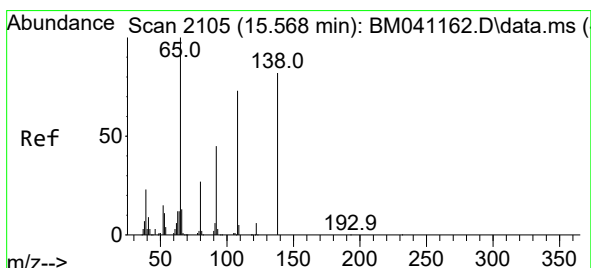
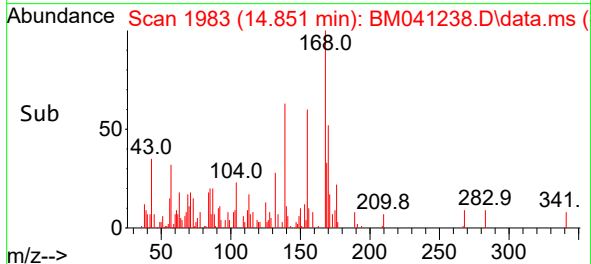
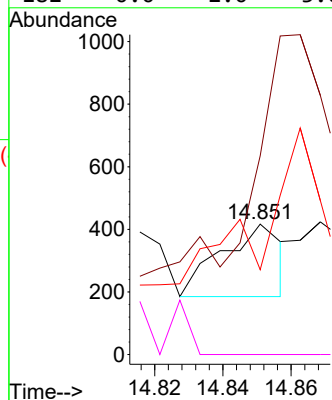
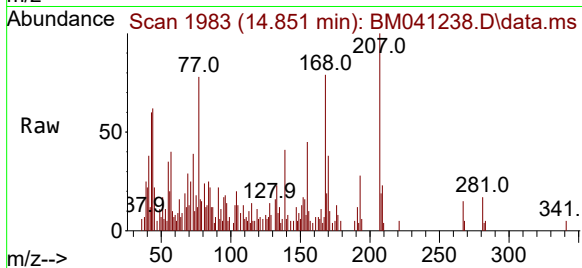




#57
2,4-Dinitrotoluene
Concen: 2.697 ng
RT: 14.851 min Scan# 1984
Delta R.T. -0.006 min
Lab File: BM041238.D
Acq: 02 Aug 2023 10:58

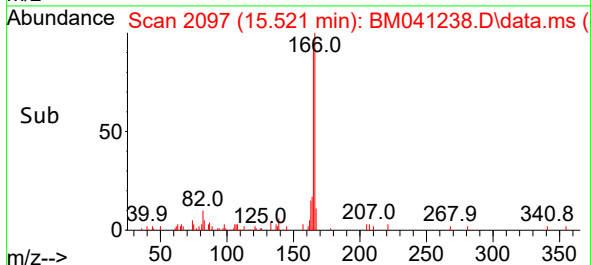
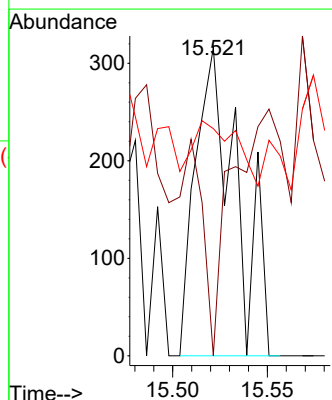
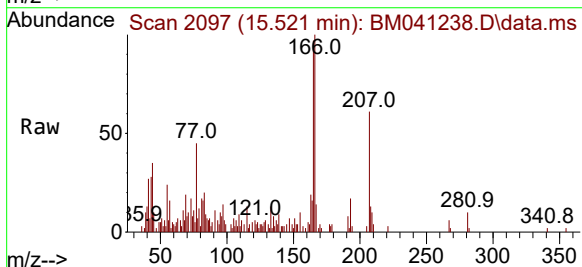
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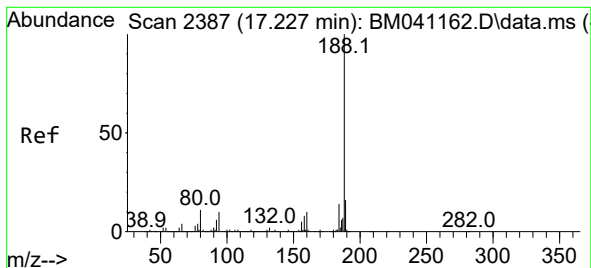
Tgt Ion:165 Resp: 285
Ion Ratio Lower Upper
165 100
63 152.3 48.3 72.5#
89 65.0 71.8 107.8#
182 0.0 2.0 3.0#



#62
4-Nitroaniline
Concen: 4.205 ng
RT: 15.521 min Scan# 2097
Delta R.T. -0.041 min
Lab File: BM041238.D
Acq: 02 Aug 2023 10:58

Tgt Ion:138 Resp: 477
Ion Ratio Lower Upper
138 100
92 0.0 35.1 75.1#
108 73.7 67.8 107.8





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.221 min Scan# 21

Delta R.T. -0.000 min

Lab File: BM041238.D

Acq: 02 Aug 2023 10:58

Instrument :

BNA_M

ClientSampleId :

GROVE-SOIL-0731

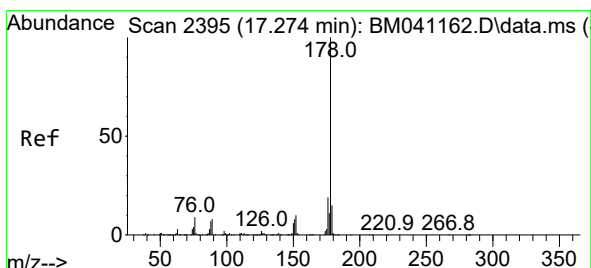
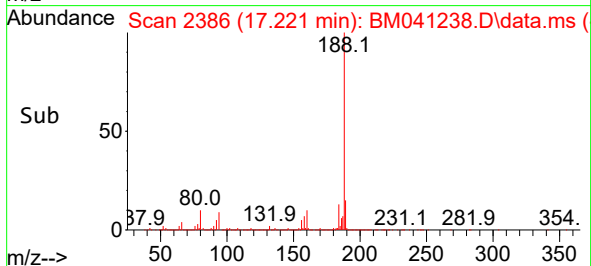
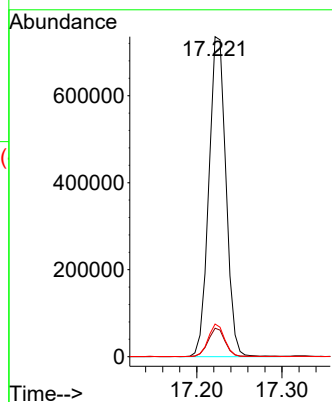
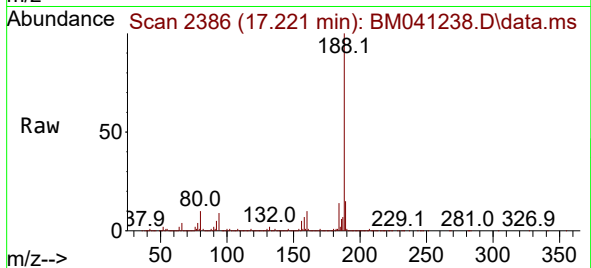
Tgt Ion:188 Resp: 1025566

Ion Ratio Lower Upper

188 100

94 8.9 8.2 12.2

80 10.2 8.6 13.0



#71

Phenanthrene

Concen: 6.072 ng

RT: 17.268 min Scan# 2394

Delta R.T. -0.000 min

Lab File: BM041238.D

Acq: 02 Aug 2023 10:58

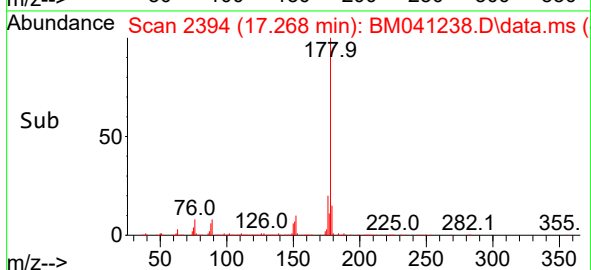
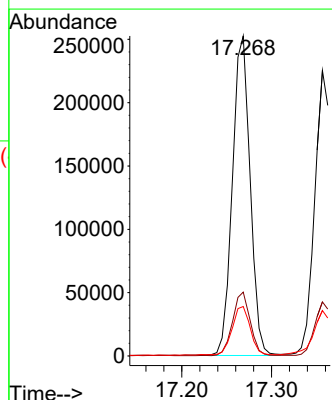
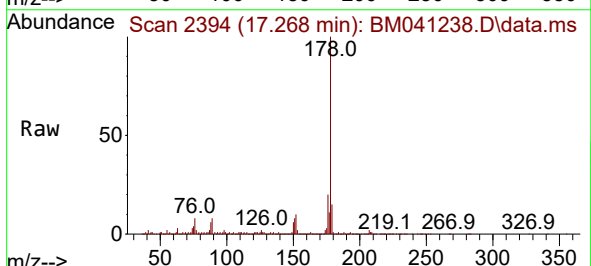
Tgt Ion:178 Resp: 346016

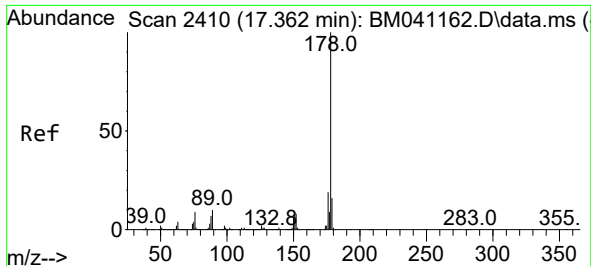
Ion Ratio Lower Upper

178 100

176 20.0 15.6 23.4

179 15.4 12.1 18.1

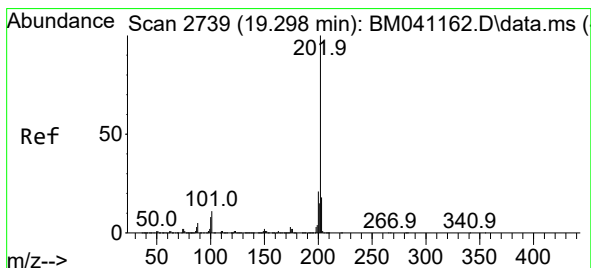
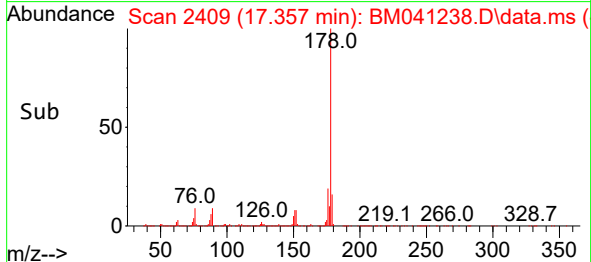
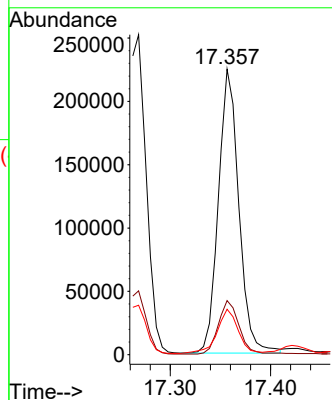
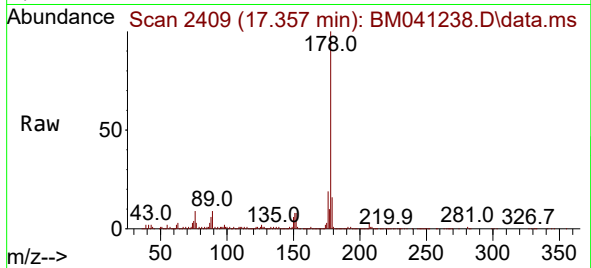




#72
 Anthracene
 Concen: 5.638 ng
 RT: 17.357 min Scan# 2410
 Delta R.T. -0.000 min
 Lab File: BM041238.D
 Acq: 02 Aug 2023 10:58

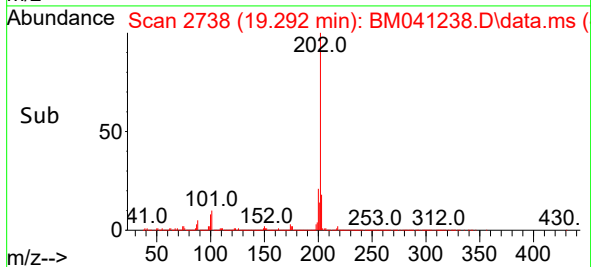
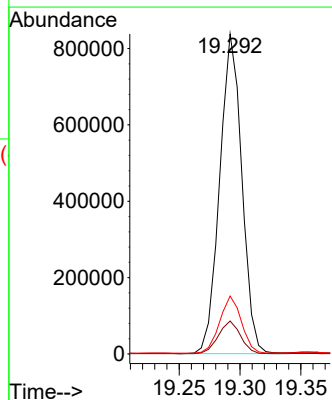
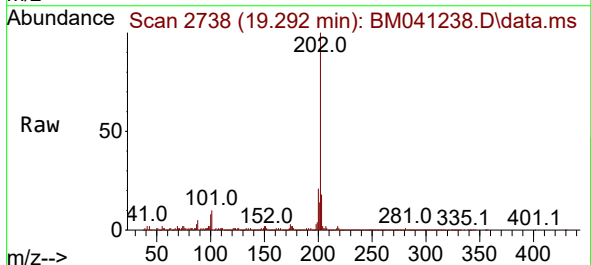
Instrument :
 BNA_M
 ClientSampleId :
 GROVE-SOIL-0731

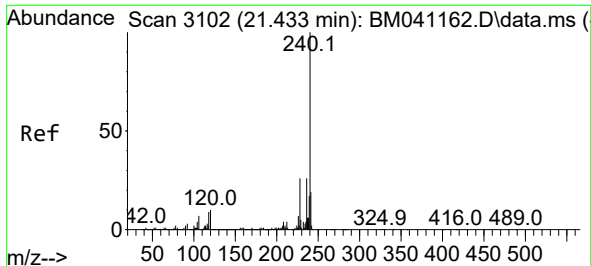
Tgt Ion:178 Resp: 317758
 Ion Ratio Lower Upper
 178 100
 176 18.9 15.2 22.8
 179 15.9 12.4 18.6



#75
 Fluoranthene
 Concen: 16.559 ng
 RT: 19.292 min Scan# 2738
 Delta R.T. -0.000 min
 Lab File: BM041238.D
 Acq: 02 Aug 2023 10:58

Tgt Ion:202 Resp: 1060057
 Ion Ratio Lower Upper
 202 100
 101 10.3 0.0 30.8
 203 18.1 0.0 37.6

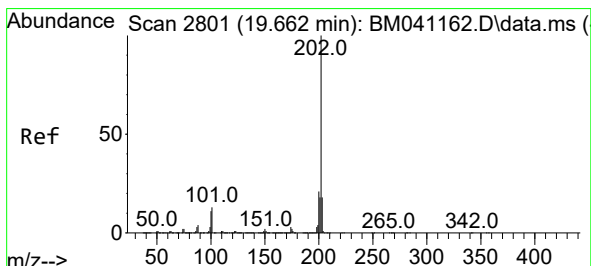
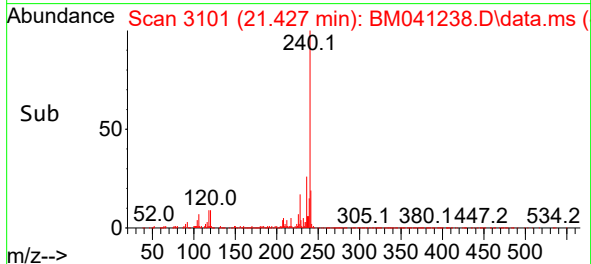
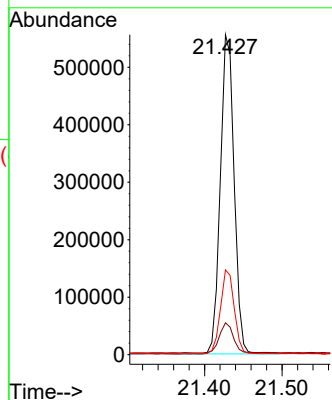
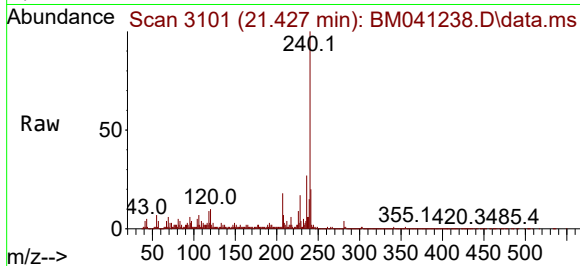




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.427 min Scan# 31
Delta R.T. -0.006 min
Lab File: BM041238.D
Acq: 02 Aug 2023 10:58

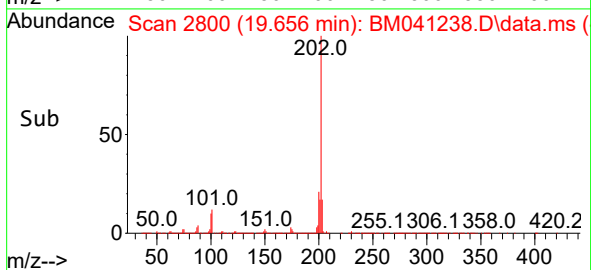
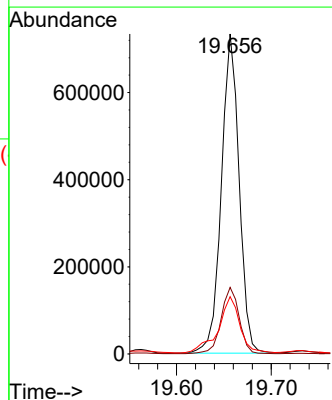
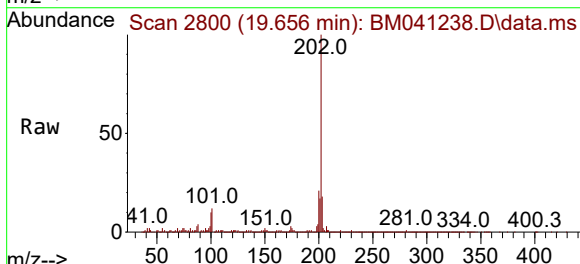
Instrument :
BNA_M
ClientSampleId :
GROVE-SOIL-0731

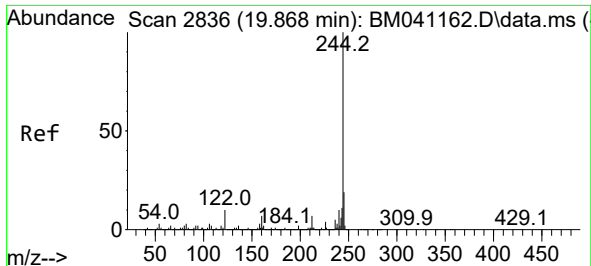
Tgt Ion:240 Resp: 686200
Ion Ratio Lower Upper
240 100
120 10.0 8.3 12.5
236 26.5 20.6 30.8



#78
Pyrene
Concen: 19.925 ng
RT: 19.656 min Scan# 2800
Delta R.T. -0.000 min
Lab File: BM041238.D
Acq: 02 Aug 2023 10:58

Tgt Ion:202 Resp: 956157
Ion Ratio Lower Upper
202 100
200 20.8 16.9 25.3
203 17.9 14.1 21.1

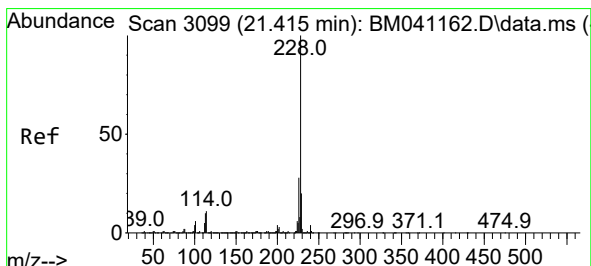
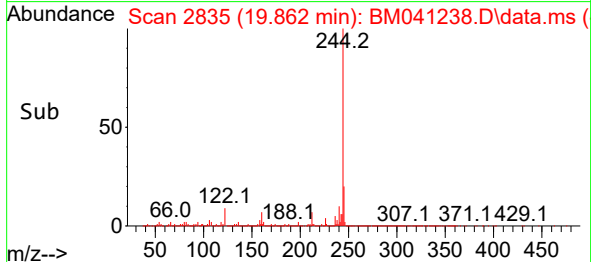
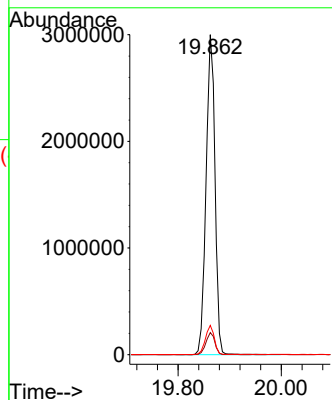
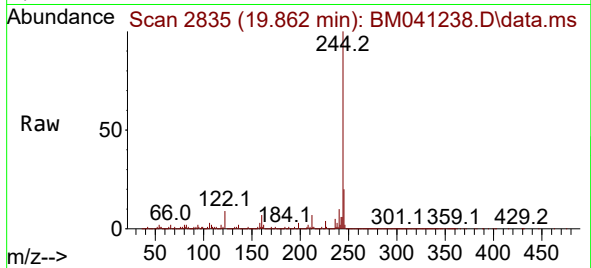




#79
 Terphenyl-d14
 Concen: 94.440 ng
 RT: 19.862 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BM041238.D
 Acq: 02 Aug 2023 10:58

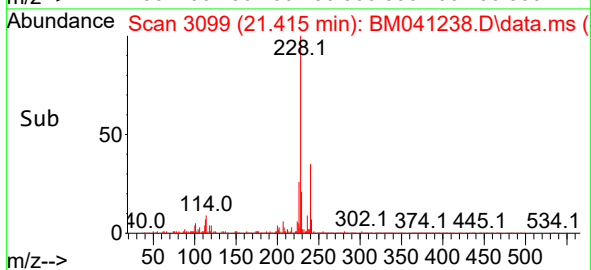
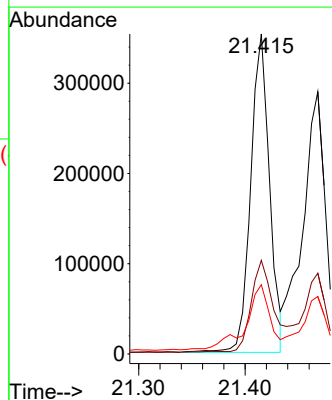
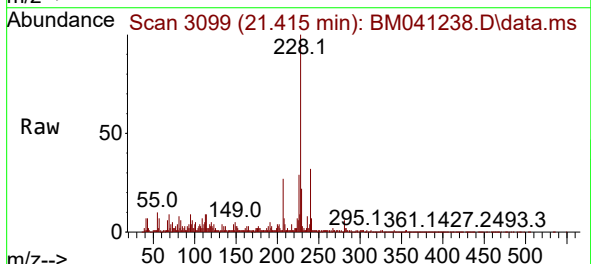
Instrument :
 BNA_M
 ClientSampleId :
 GROVE-SOIL-0731

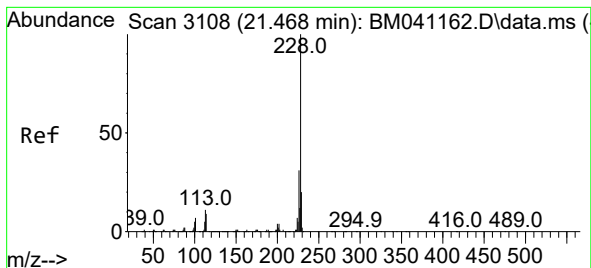
Tgt Ion:244 Resp: 3584221
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.4 8.2
 122 9.2 7.8 11.6



#81
 Benzo(a)anthracene
 Concen: 9.331 ng
 RT: 21.415 min Scan# 3099
 Delta R.T. -0.000 min
 Lab File: BM041238.D
 Acq: 02 Aug 2023 10:58

Tgt Ion:228 Resp: 434067
 Ion Ratio Lower Upper
 228 100
 226 29.3 22.4 33.6
 229 21.7 15.8 23.8





#83

Chrysene

Concen: 9.521 ng

RT: 21.468 min Scan# 3108

Delta R.T. -0.000 min

Lab File: BM041238.D

Acq: 02 Aug 2023 10:58

Instrument :

BNA_M

ClientSampleId :

GROVE-SOIL-0731

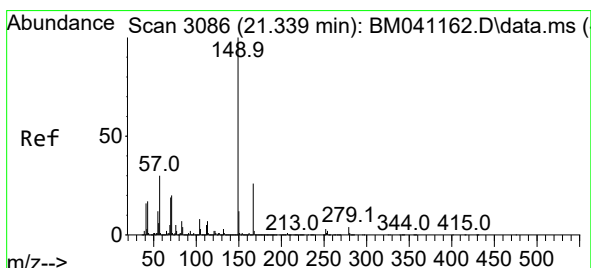
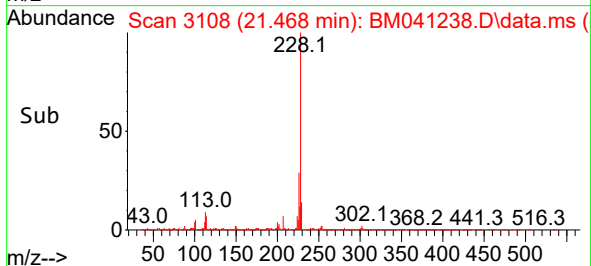
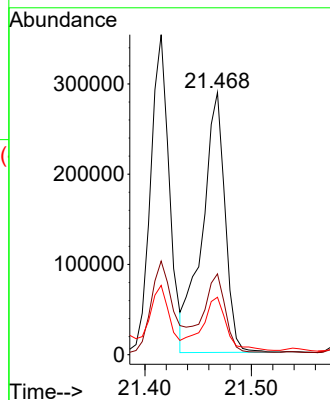
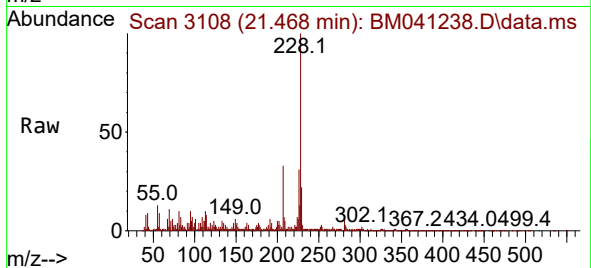
Tgt Ion:228 Resp: 428378

Ion Ratio Lower Upper

228 100

226 30.8 24.5 36.7

229 21.9 15.8 23.8



#84

Bis(2-ethylhexyl)phthalate

Concen: 4.970 ng

RT: 21.333 min Scan# 3085

Delta R.T. -0.000 min

Lab File: BM041238.D

Acq: 02 Aug 2023 10:58

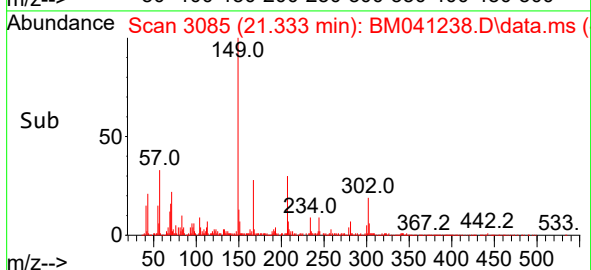
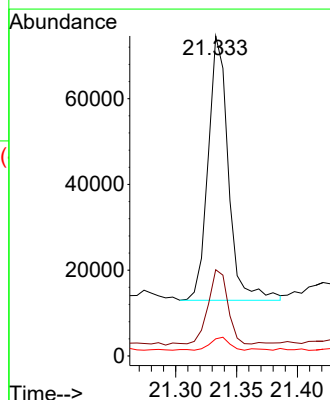
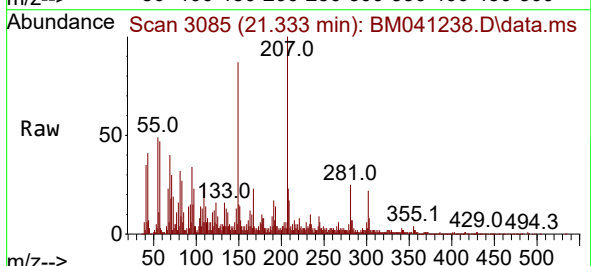
Tgt Ion:149 Resp: 71433

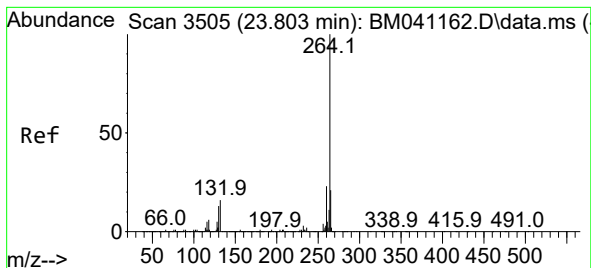
Ion Ratio Lower Upper

149 100

167 27.0 21.0 31.6

279 5.4 3.1 4.7#





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.809 min Scan# 3

Delta R.T. 0.006 min

Lab File: BM041238.D

Acq: 02 Aug 2023 10:58

Instrument :

BNA_M

ClientSampleId :

GROVE-SOIL-0731

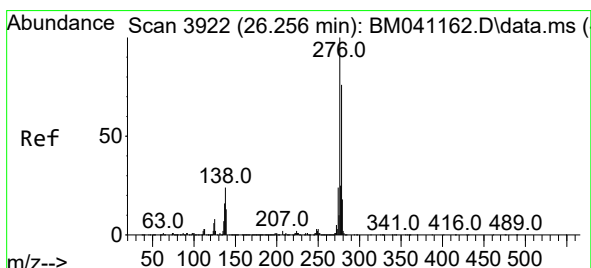
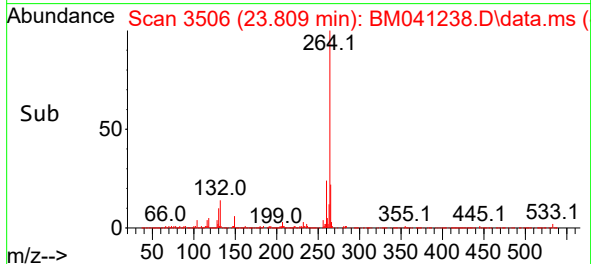
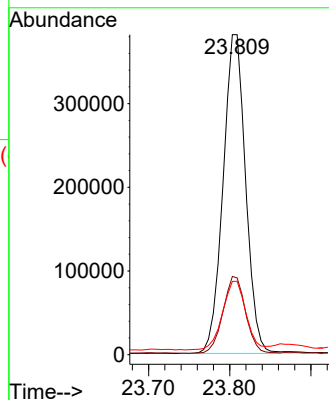
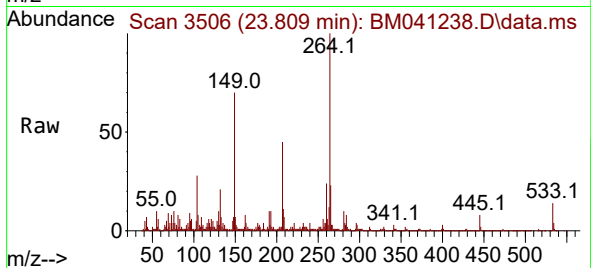
Tgt Ion:264 Resp: 735875

Ion Ratio Lower Upper

264 100

260 24.0 18.5 27.7

265 22.9 17.4 26.0



#87

Indeno(1,2,3-cd)pyrene

Concen: 4.189 ng

RT: 26.256 min Scan# 3922

Delta R.T. -0.006 min

Lab File: BM041238.D

Acq: 02 Aug 2023 10:58

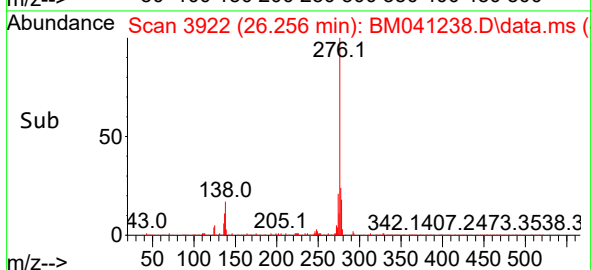
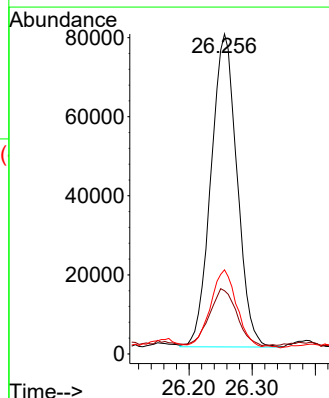
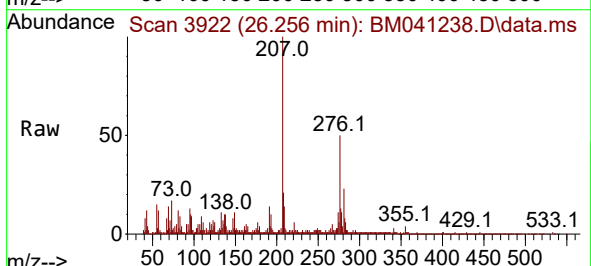
Tgt Ion:276 Resp: 226629

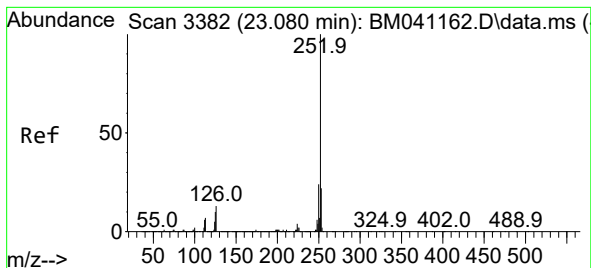
Ion Ratio Lower Upper

276 100

138 18.8 20.0 30.0#

277 25.7 20.1 30.1





#88

Benzo(b)fluoranthene

Concen: 14.292 ng

RT: 23.086 min Scan# 3382

Delta R.T. -0.000 min

Lab File: BM041238.D

Acq: 02 Aug 2023 10:58

Instrument :

BNA_M

ClientSampleId :

GROVE-SOIL-0731

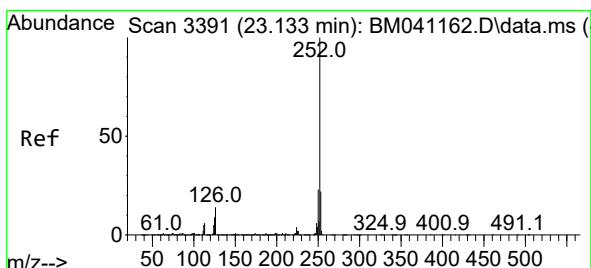
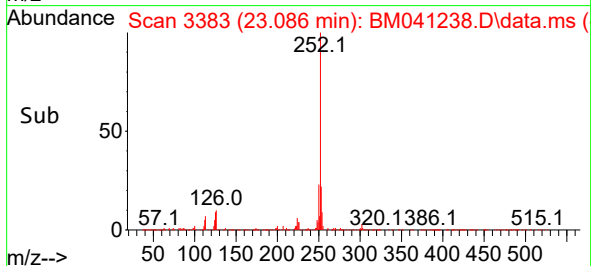
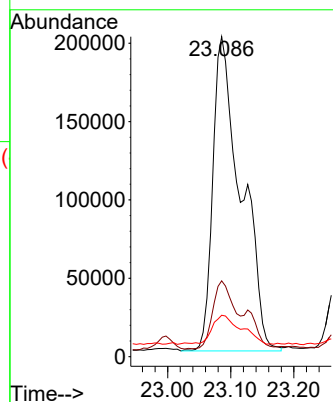
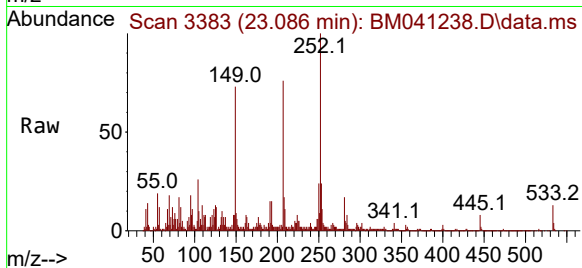
Tgt Ion:252 Resp: 624790

Ion Ratio Lower Upper

252 100

253 23.7 17.7 26.5

125 12.9 8.2 12.4#



#89

Benzo(k)fluoranthene

Concen: 13.972 ng

RT: 23.086 min Scan# 3383

Delta R.T. -0.047 min

Lab File: BM041238.D

Acq: 02 Aug 2023 10:58

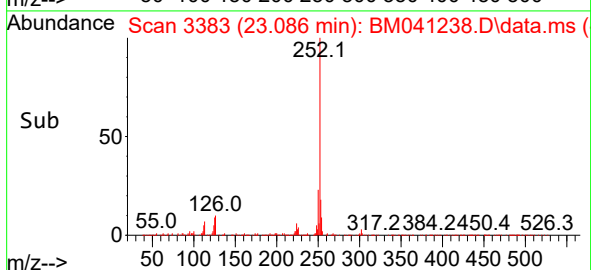
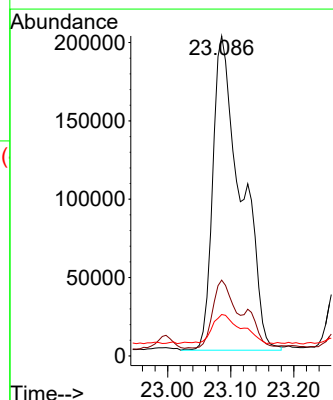
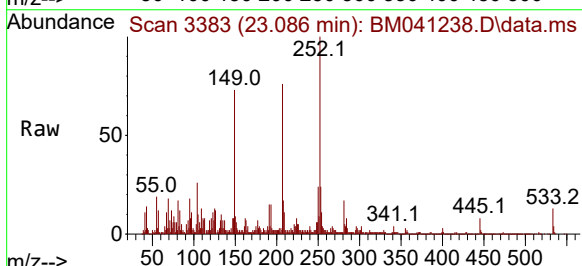
Tgt Ion:252 Resp: 624790

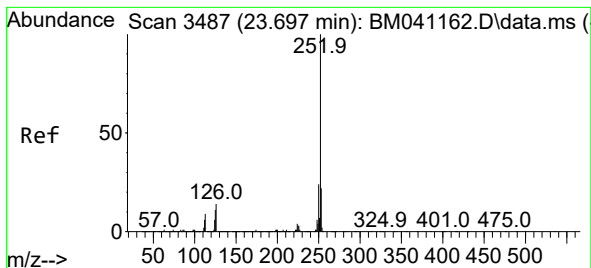
Ion Ratio Lower Upper

252 100

253 23.7 17.4 26.0

125 12.9 7.6 11.4#





#90

Benzo(a)pyrene

Concen: 7.332 ng

RT: 23.703 min Scan# 34

Delta R.T. 0.006 min

Lab File: BM041238.D

Acq: 02 Aug 2023 10:58

Instrument :

BNA_M

ClientSampleId :

GROVE-SOIL-0731

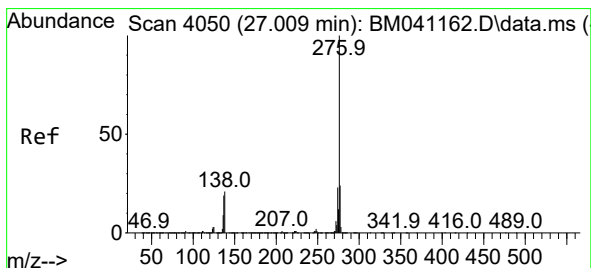
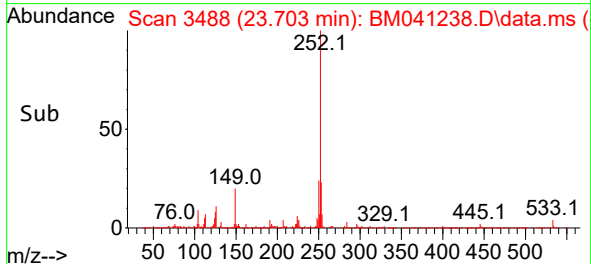
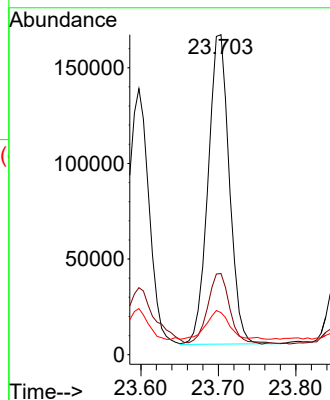
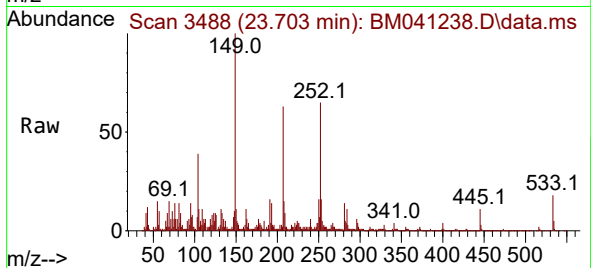
Tgt Ion:252 Resp: 307968

Ion Ratio Lower Upper

252 100

253 25.4 17.3 25.9

125 13.1 9.0 13.4



#92

Benzo(g,h,i)perylene

Concen: 5.340 ng

RT: 27.015 min Scan# 4051

Delta R.T. -0.000 min

Lab File: BM041238.D

Acq: 02 Aug 2023 10:58

Tgt Ion:276 Resp: 235807

Ion Ratio Lower Upper

276 100

277 25.7 19.1 28.7

138 21.1 17.1 25.7

