

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM033023\
 Data File : BM039243.D
 Acq On : 31 Mar 2023 01:14
 Operator : CG/JU
 Sample : 02105-01 5X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 WV-SOIL1-0327

Quant Time: Mar 31 02:45:03 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM032923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 30 05:15:45 2023
 Response via : Initial Calibration

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

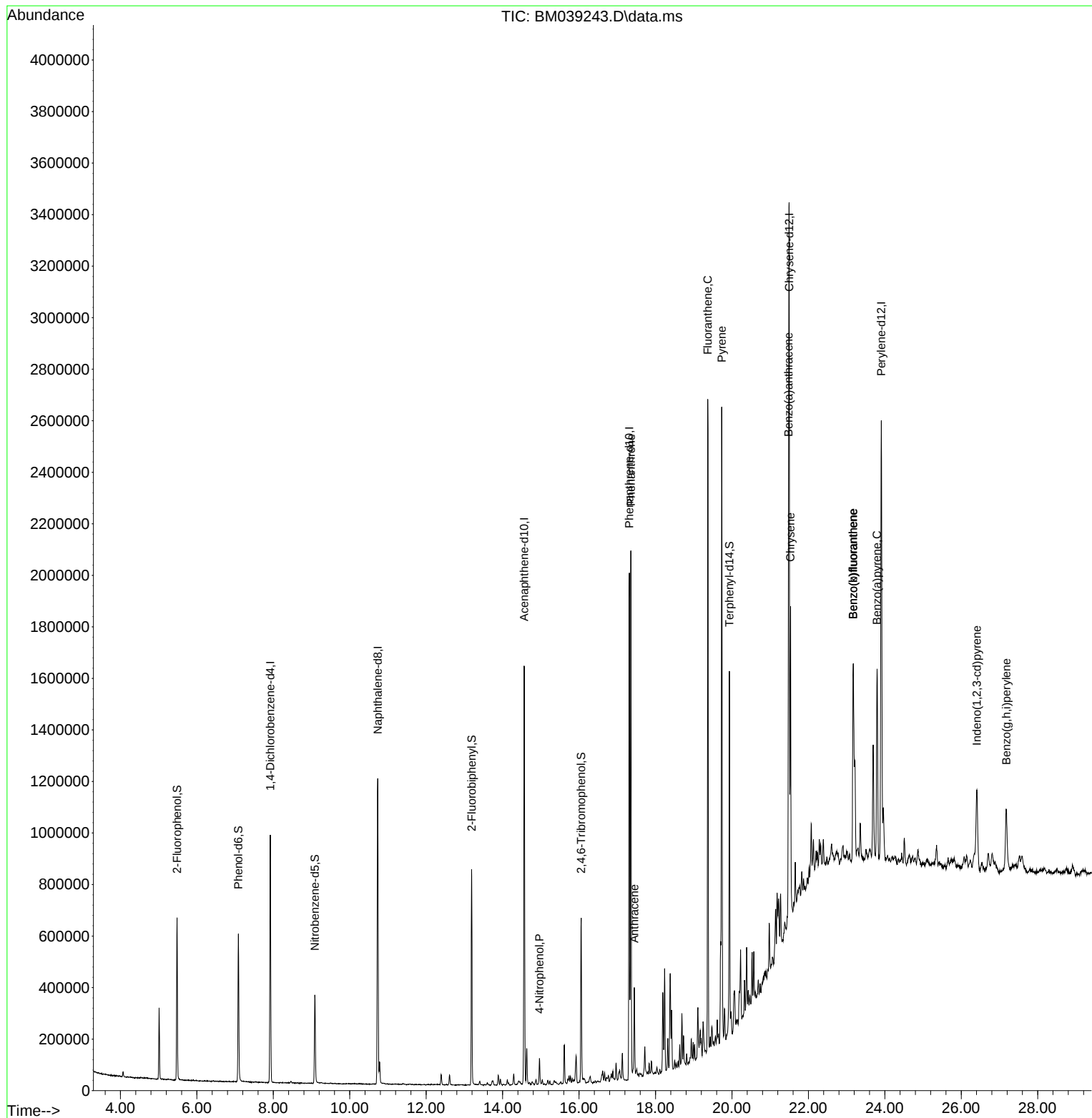
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.922	152	247754	20.000	ng	0.00
21) Naphthalene-d8	10.733	136	983656	20.000	ng	0.00
39) Acenaphthene-d10	14.563	164	554866	20.000	ng	-0.01
64) Phenanthrene-d10	17.315	188	1148595	20.000	ng	0.00
76) Chrysene-d12	21.497	240	1085896	20.000	ng	0.00
86) Perylene-d12	23.909	264	1248542	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.481	112	277503	16.875	ng	0.00
7) Phenol-d6	7.087	99	343162	16.134	ng	-0.01
23) Nitrobenzene-d5	9.086	82	207525	10.254	ng	-0.01
42) 2,4,6-Tribromophenol	16.057	330	103900	14.751	ng	0.00
45) 2-Fluorobiphenyl	13.192	172	428479	10.463	ng	0.00
79) Terphenyl-d14	19.933	244	643163	10.943	ng	-0.01
Target Compounds						
						Qvalue
56) 4-Nitrophenol	14.963	139	20376	2.486	ng	# 11
71) Phenanthrene	17.356	178	1174763	18.675	ng	100
72) Anthracene	17.445	178	209123	3.260	ng	99
75) Fluoranthene	19.368	202	1427428	19.906	ng	99
78) Pyrene	19.733	202	1434530	18.557	ng	99
81) Benzo(a)anthracene	21.480	228	694913	9.074	ng	99
83) Chrysene	21.533	228	621630	8.408	ng	97
87) Indeno(1,2,3-cd)pyrene	26.409	276	312679	3.399	ng	96
88) Benzo(b)fluoranthene	23.174	252	707223	9.257	ng	97
89) Benzo(k)fluoranthene	23.174	252	707223	9.088	ng	97
90) Benzo(a)pyrene	23.797	252	535241	7.132	ng	98
92) Benzo(g,h,i)perylene	27.179	276	311193	4.097	ng	98

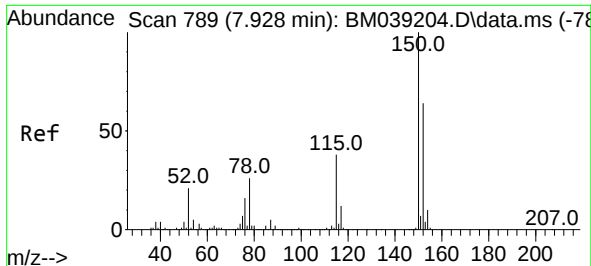
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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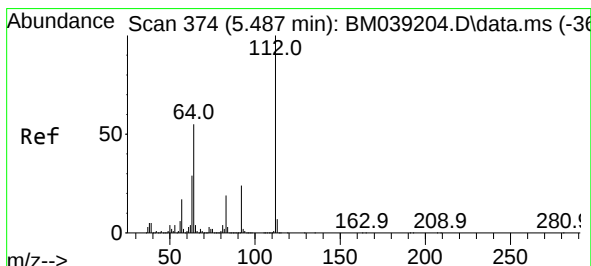
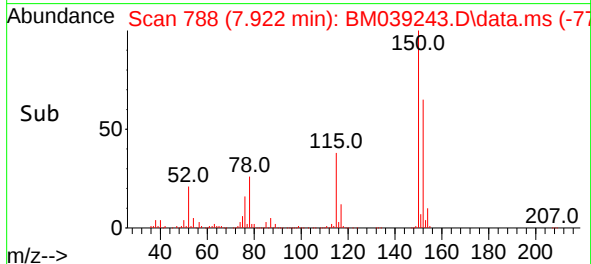
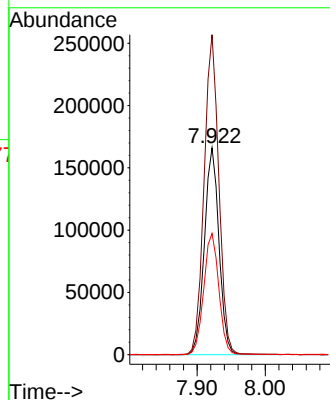
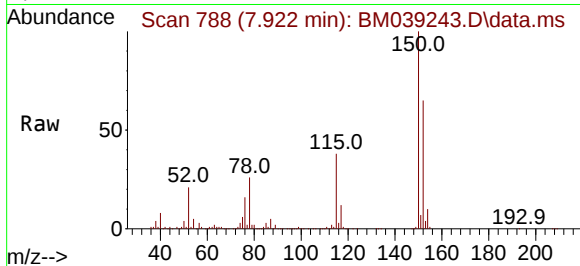




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.922 min Scan# 71
Delta R.T. -0.006 min
Lab File: BM039243.D
Acq: 31 Mar 2023 01:14

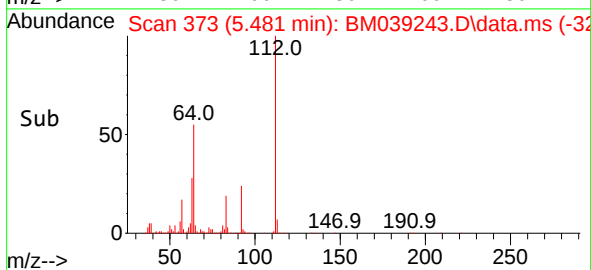
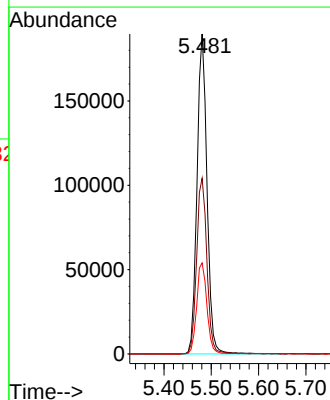
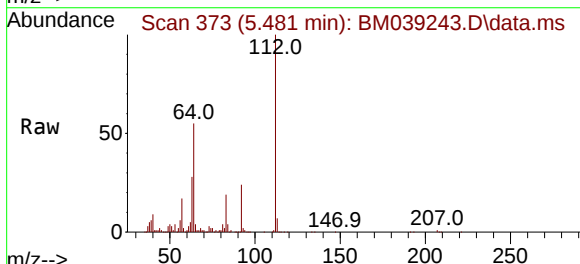
Instrument :
BNA_M
ClientSampleId :
WV-SOIL1-0327

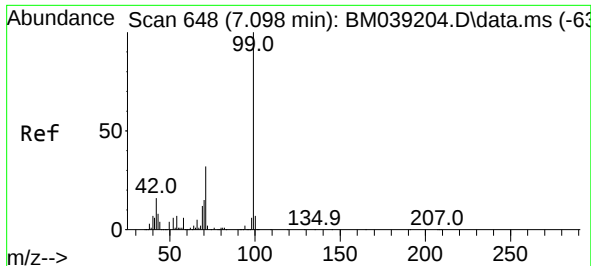
Tgt Ion:152 Resp: 247754
Ion Ratio Lower Upper
152 100
150 154.7 125.5 188.3
115 58.6 48.1 72.1



#5
2-Fluorophenol
Concen: 16.875 ng
RT: 5.481 min Scan# 373
Delta R.T. -0.006 min
Lab File: BM039243.D
Acq: 31 Mar 2023 01:14

Tgt Ion:112 Resp: 277503
Ion Ratio Lower Upper
112 100
64 54.9 44.3 66.5
63 28.4 23.0 34.6

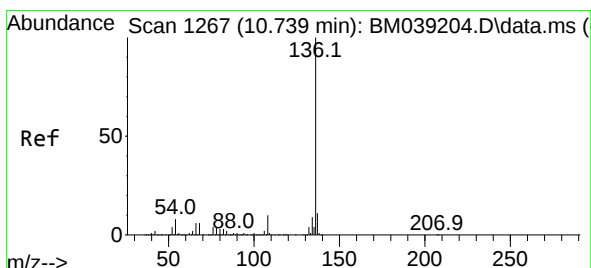
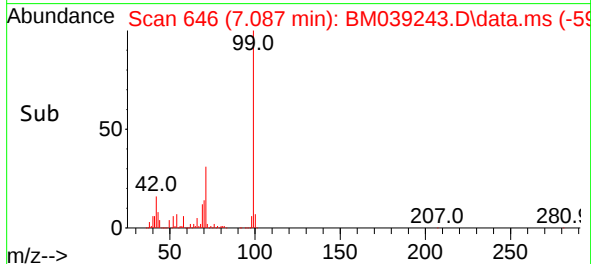
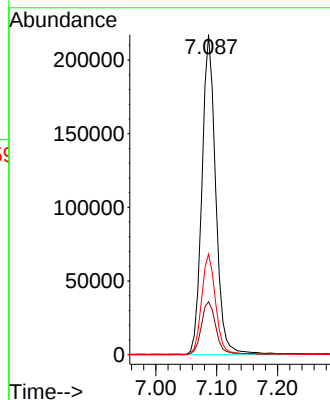
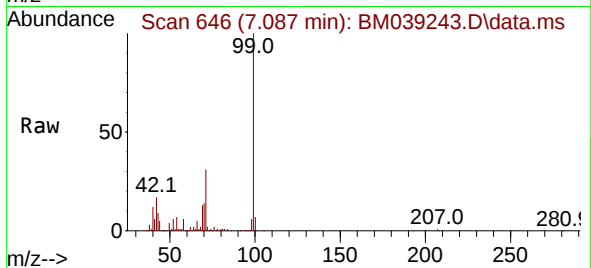




#7
Phenol-d6
Concen: 16.134 ng
RT: 7.087 min Scan# 647
Delta R.T. -0.012 min
Lab File: BM039243.D
Acq: 31 Mar 2023 01:14

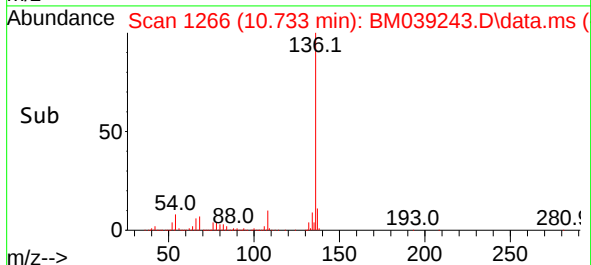
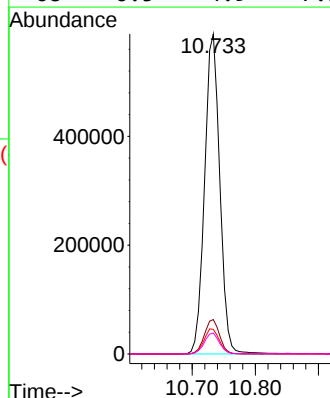
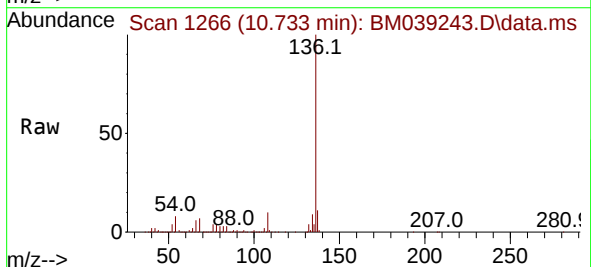
Instrument :
BNA_M
ClientSampleId :
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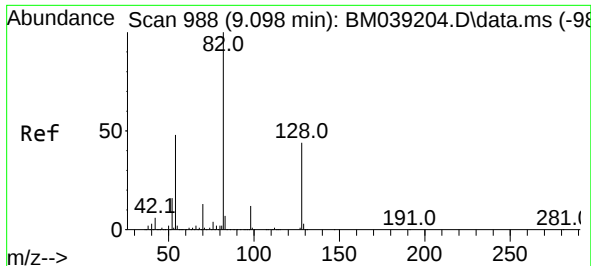
Tgt Ion: 99 Resp: 343162
Ion Ratio Lower Upper
99 100
42 16.6 13.0 19.6
71 31.5 25.5 38.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.733 min Scan# 1266
Delta R.T. -0.006 min
Lab File: BM039243.D
Acq: 31 Mar 2023 01:14

Tgt Ion: 136 Resp: 983656
Ion Ratio Lower Upper
136 100
137 10.7 8.9 13.3
54 7.7 6.2 9.4
68 6.5 4.9 7.3

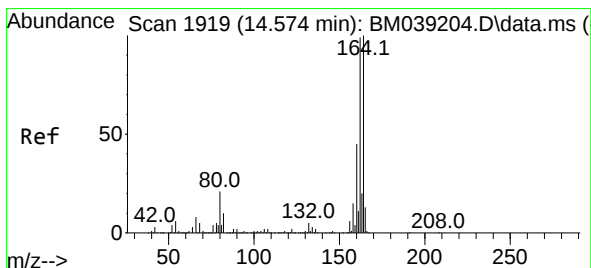
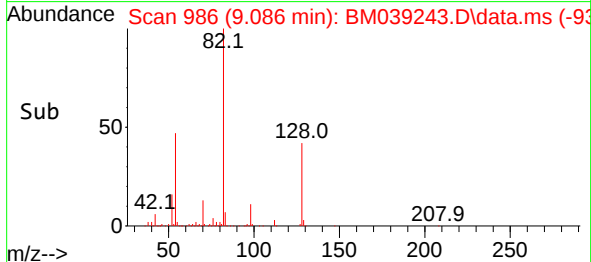
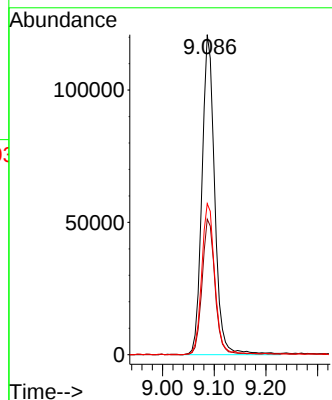
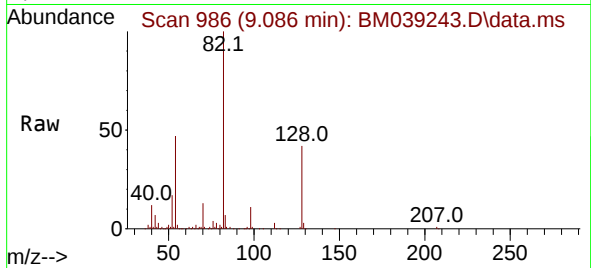




#23
Nitrobenzene-d5
Concen: 10.254 ng
RT: 9.086 min Scan# 91
Delta R.T. -0.012 min
Lab File: BM039243.D
Acq: 31 Mar 2023 01:14

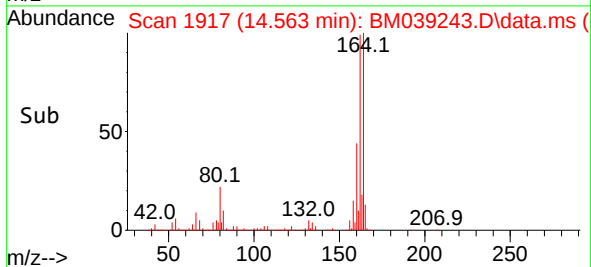
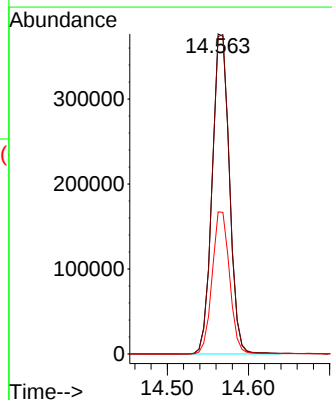
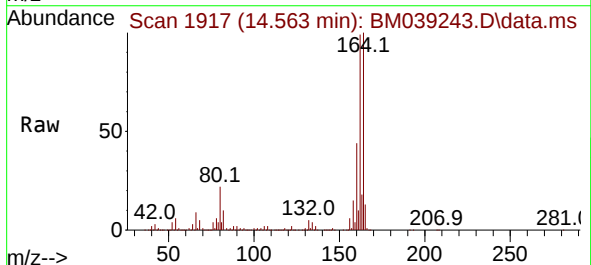
Instrument :
BNA_M
ClientSampleId :
WV-SOIL1-0327

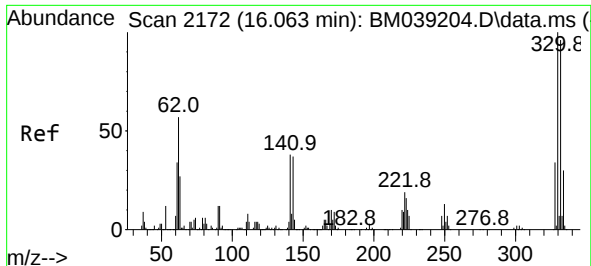
Tgt Ion: 82 Resp: 207525
Ion Ratio Lower Upper
82 100
128 42.4 35.1 52.7
54 47.2 38.5 57.7



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.563 min Scan# 1917
Delta R.T. -0.011 min
Lab File: BM039243.D
Acq: 31 Mar 2023 01:14

Tgt Ion: 164 Resp: 554866
Ion Ratio Lower Upper
164 100
162 99.2 79.1 118.7
160 44.4 35.8 53.8





#42

2,4,6-Tribromophenol

Concen: 14.751 ng

RT: 16.057 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM039243.D

Acq: 31 Mar 2023 01:14

Instrument :

BNA_M

ClientSampleId :

WV-SOIL1-0327

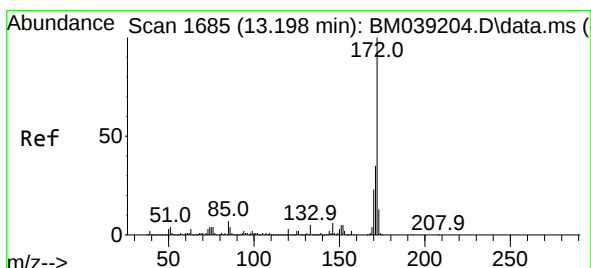
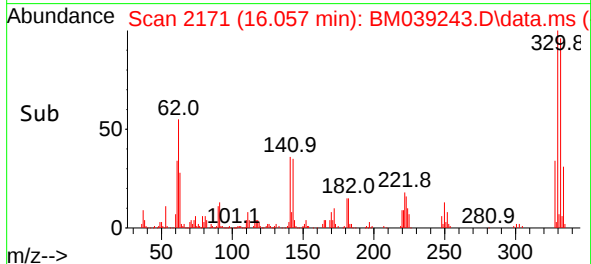
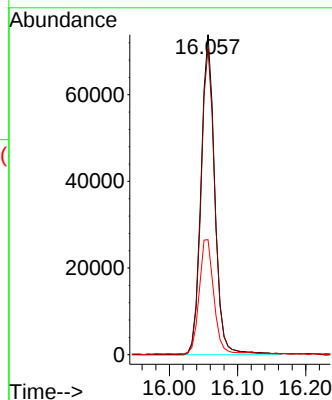
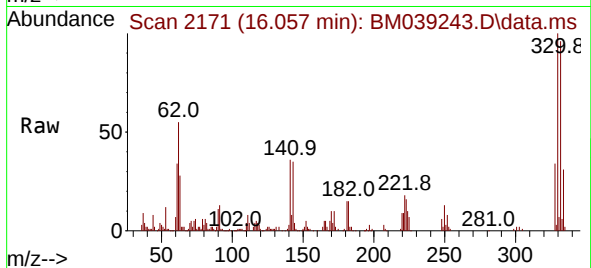
Tgt Ion:330 Resp: 103900

Ion Ratio Lower Upper

330 100

332 96.3 77.4 116.0

141 37.7 29.8 44.6



#45

2-Fluorobiphenyl

Concen: 10.463 ng

RT: 13.192 min Scan# 1684

Delta R.T. -0.006 min

Lab File: BM039243.D

Acq: 31 Mar 2023 01:14

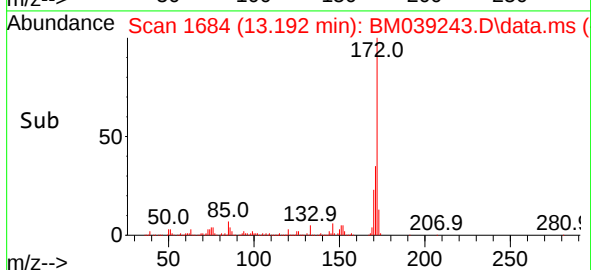
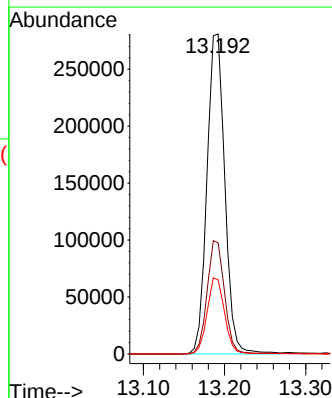
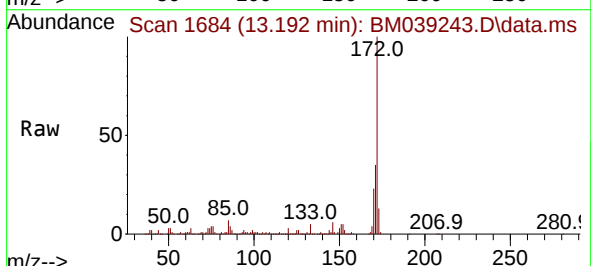
Tgt Ion:172 Resp: 428479

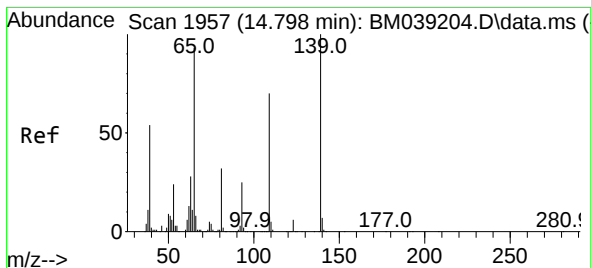
Ion Ratio Lower Upper

172 100

171 34.8 28.0 42.0

170 23.2 18.7 28.1

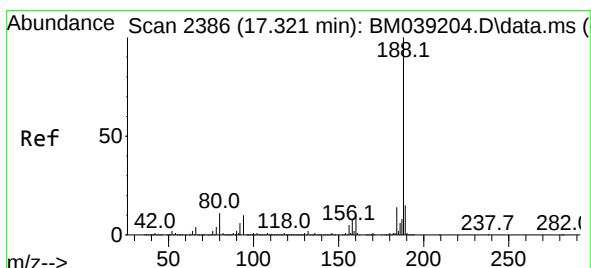
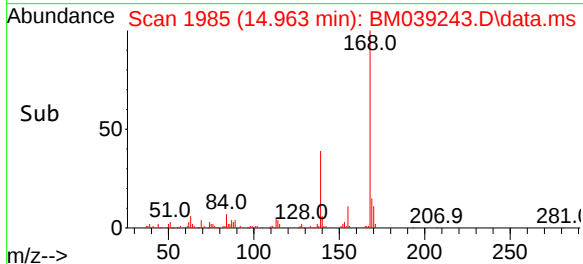
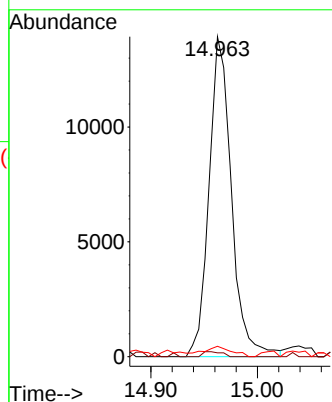
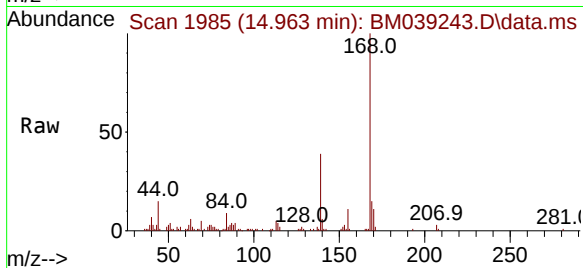




#56
4-Nitrophenol
Concen: 2.486 ng
RT: 14.963 min Scan# 1957
Delta R.T. 0.165 min
Lab File: BM039243.D
Acq: 31 Mar 2023 01:14

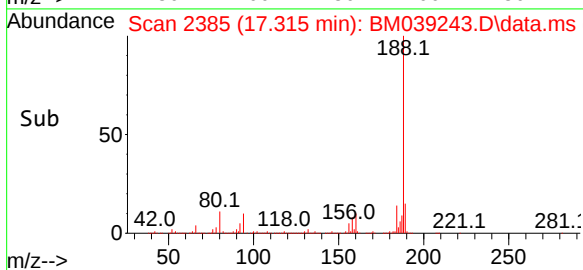
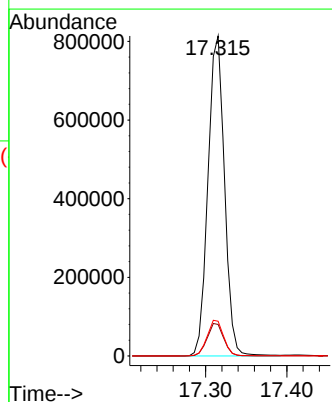
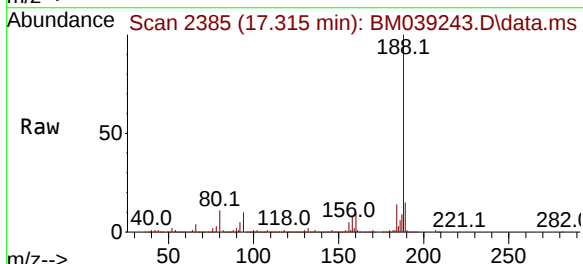
Instrument :
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ClientSampleId :
WV-SOIL1-0327

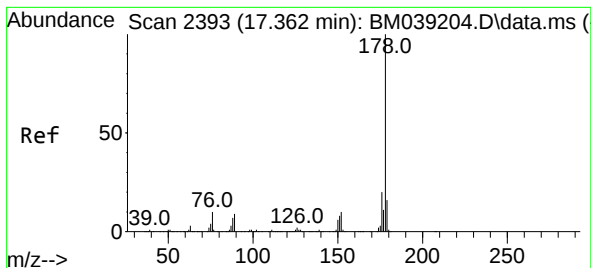
Tgt Ion:139 Resp: 20376
Ion Ratio Lower Upper
139 100
109 1.2 49.6 89.6#
65 3.2 72.9 112.9#



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.315 min Scan# 2385
Delta R.T. -0.006 min
Lab File: BM039243.D
Acq: 31 Mar 2023 01:14

Tgt Ion:188 Resp: 1148595
Ion Ratio Lower Upper
188 100
94 9.8 8.2 12.4
80 10.9 8.9 13.3





#71

Phenanthrene

Concen: 18.675 ng

RT: 17.356 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM039243.D

Acq: 31 Mar 2023 01:14

Instrument :

BNA_M

ClientSampleId :

WV-SOIL1-0327

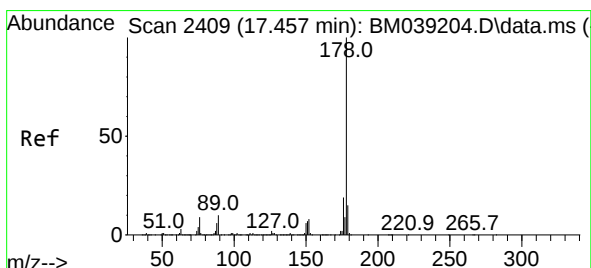
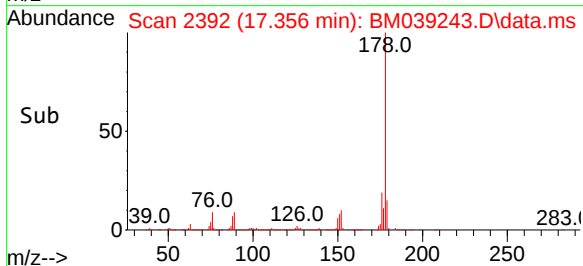
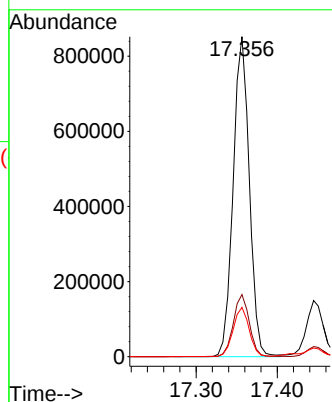
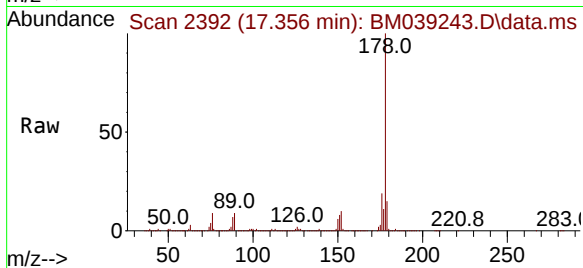
Tgt Ion:178 Resp: 1174763

Ion Ratio Lower Upper

178 100

176 19.4 15.7 23.5

179 15.4 12.4 18.6



#72

Anthracene

Concen: 3.260 ng

RT: 17.445 min Scan# 2407

Delta R.T. -0.012 min

Lab File: BM039243.D

Acq: 31 Mar 2023 01:14

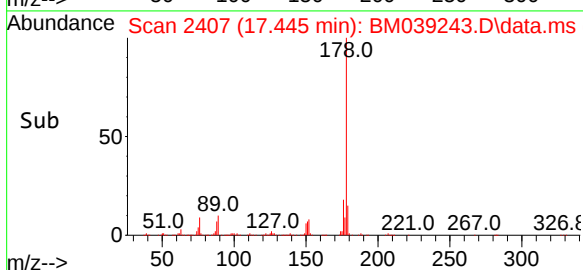
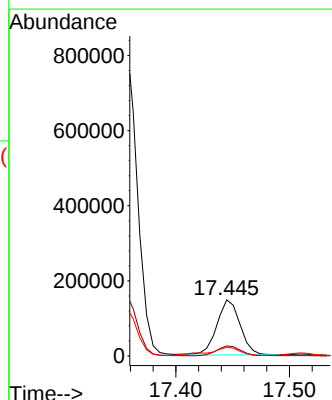
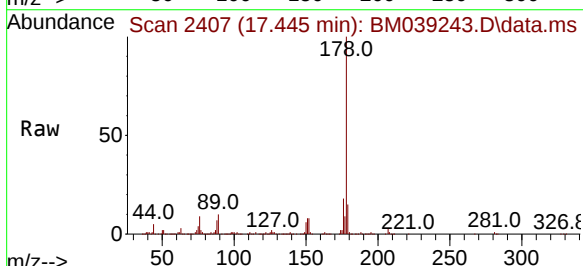
Tgt Ion:178 Resp: 209123

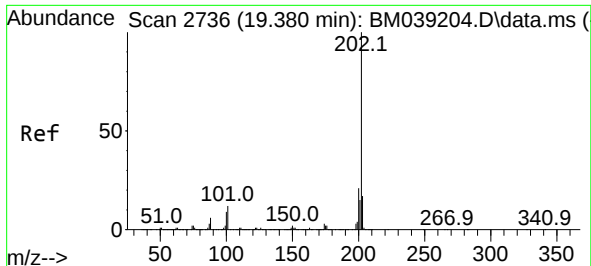
Ion Ratio Lower Upper

178 100

176 18.0 14.9 22.3

179 15.4 12.2 18.2

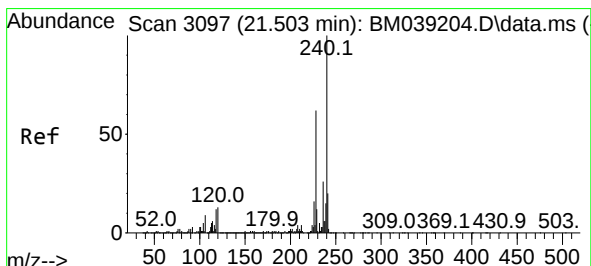
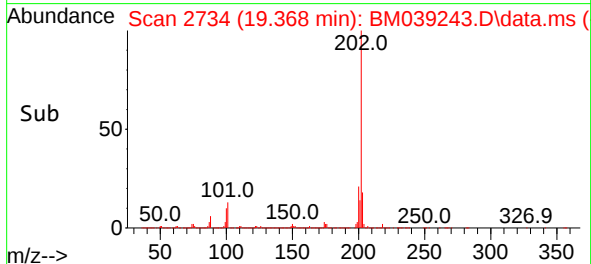
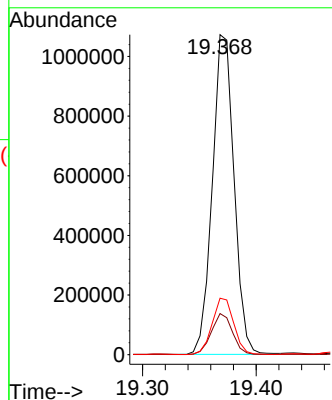
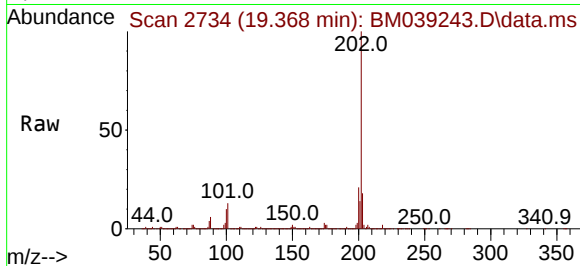




#75
Fluoranthene
Concen: 19.906 ng
RT: 19.368 min Scan# 21
Delta R.T. -0.012 min
Lab File: BM039243.D
Acq: 31 Mar 2023 01:14

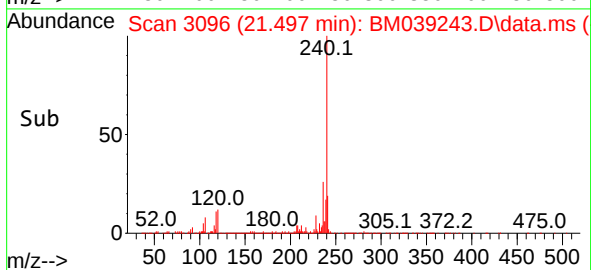
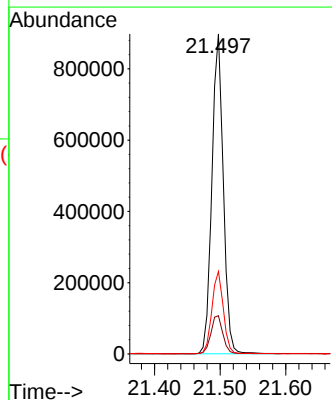
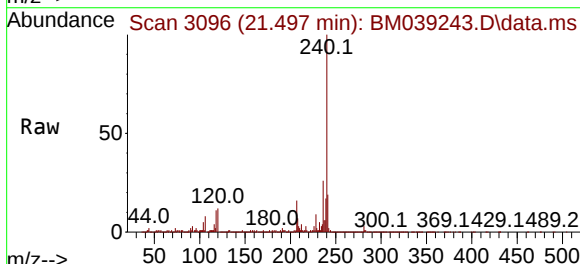
Instrument :
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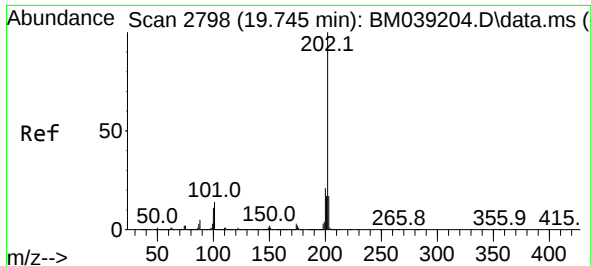
Tgt Ion:202 Resp: 1427428
Ion Ratio Lower Upper
202 100
101 12.9 0.0 32.5
203 17.7 0.0 37.5



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.497 min Scan# 3096
Delta R.T. -0.006 min
Lab File: BM039243.D
Acq: 31 Mar 2023 01:14

Tgt Ion:240 Resp: 1085896
Ion Ratio Lower Upper
240 100
120 12.0 10.2 15.2
236 25.8 20.9 31.3

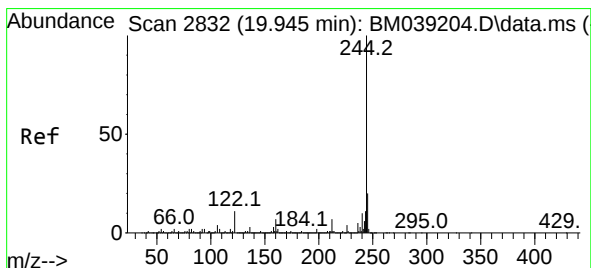
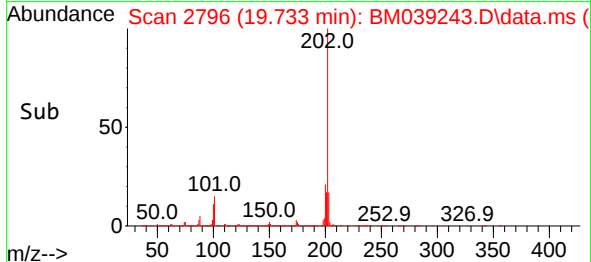
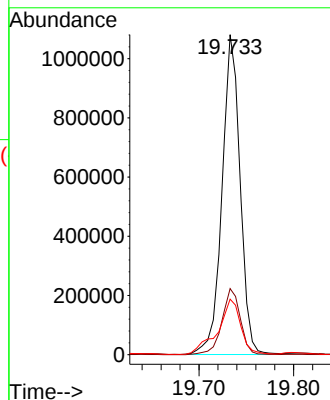
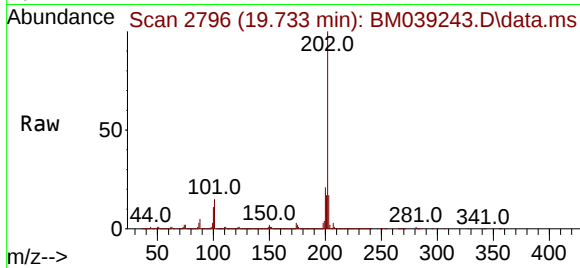




#78
Pyrene
Concen: 18.557 ng
RT: 19.733 min Scan# 21
Delta R.T. -0.012 min
Lab File: BM039243.D
Acq: 31 Mar 2023 01:14

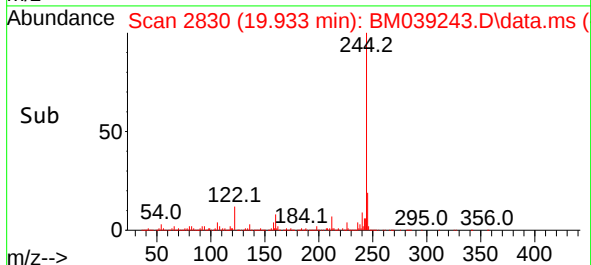
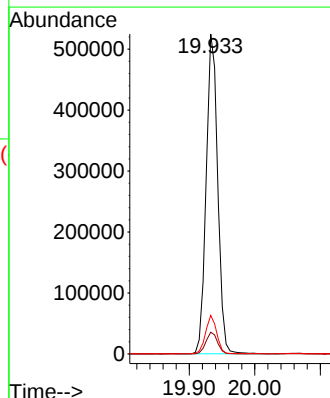
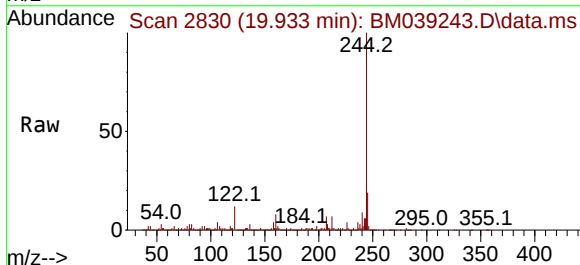
Instrument :
BNA_M
ClientSampleId :
WV-SOIL1-0327

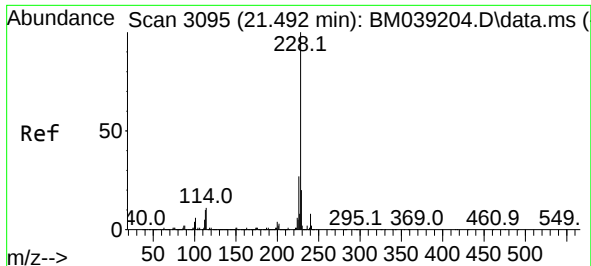
Tgt Ion:202 Resp: 1434530
Ion Ratio Lower Upper
202 100
200 20.6 17.1 25.7
203 17.4 13.9 20.9



#79
Terphenyl-d14
Concen: 10.943 ng
RT: 19.933 min Scan# 2830
Delta R.T. -0.012 min
Lab File: BM039243.D
Acq: 31 Mar 2023 01:14

Tgt Ion:244 Resp: 643163
Ion Ratio Lower Upper
244 100
212 6.8 5.6 8.4
122 12.1 9.1 13.7

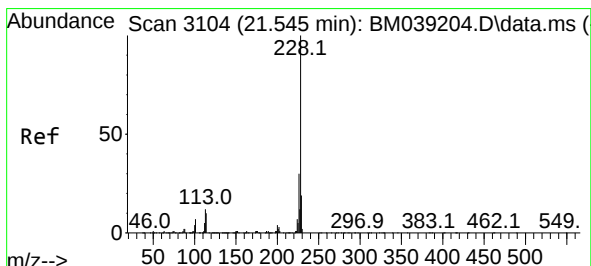
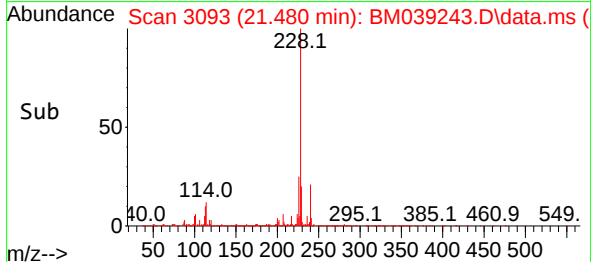
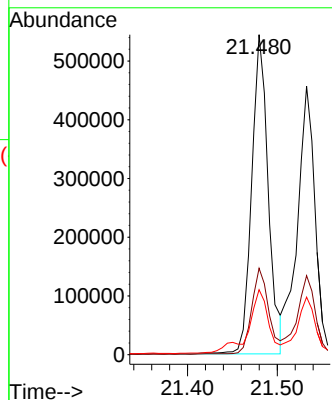
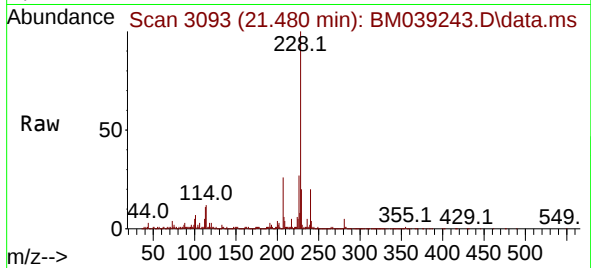




#81
Benzo(a)anthracene
Concen: 9.074 ng
RT: 21.480 min Scan# 3093
Delta R.T. -0.012 min
Lab File: BM039243.D
Acq: 31 Mar 2023 01:14

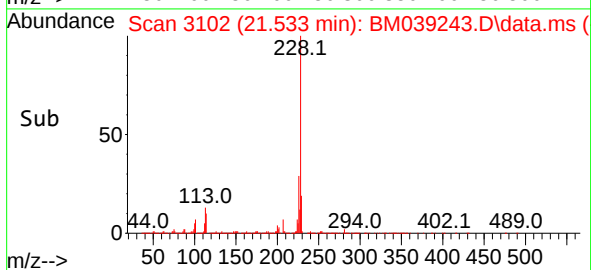
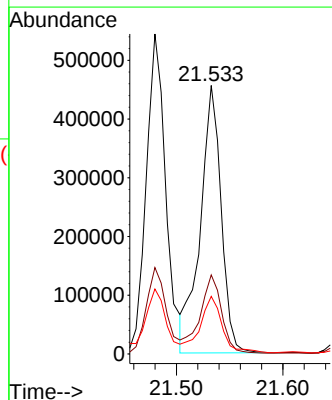
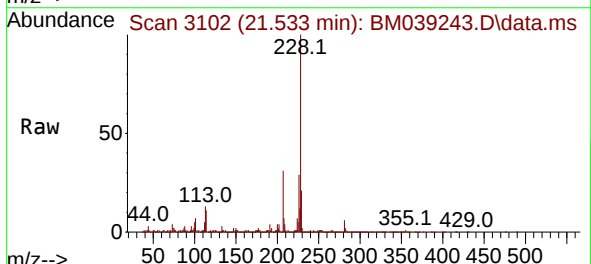
Instrument :
BNA_M
ClientSampleId :
WV-SOIL1-0327

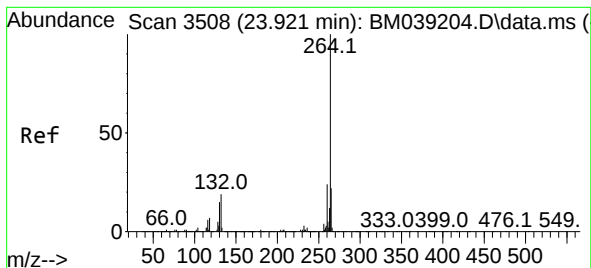
Tgt Ion:228 Resp: 694913
Ion Ratio Lower Upper
228 100
226 27.0 21.9 32.9
229 20.3 15.8 23.6



#83
Chrysene
Concen: 8.408 ng
RT: 21.533 min Scan# 3102
Delta R.T. -0.012 min
Lab File: BM039243.D
Acq: 31 Mar 2023 01:14

Tgt Ion:228 Resp: 621630
Ion Ratio Lower Upper
228 100
226 29.5 24.1 36.1
229 21.5 15.5 23.3





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.909 min Scan# 3508

Delta R.T. -0.012 min

Lab File: BM039243.D

Acq: 31 Mar 2023 01:14

Instrument :

BNA_M

ClientSampleId :

WV-SOIL1-0327

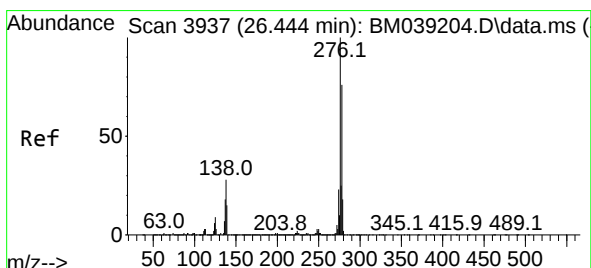
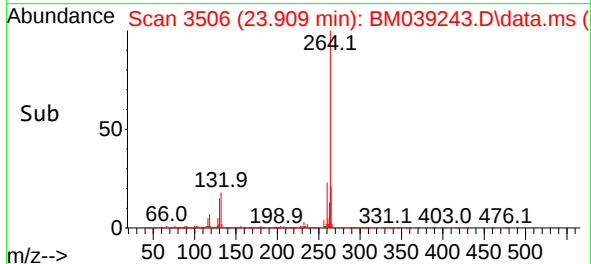
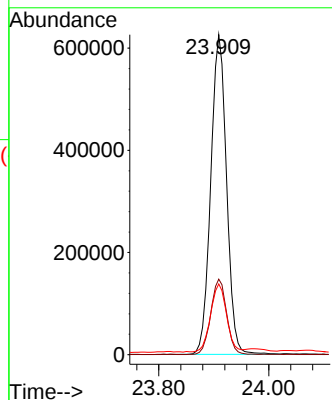
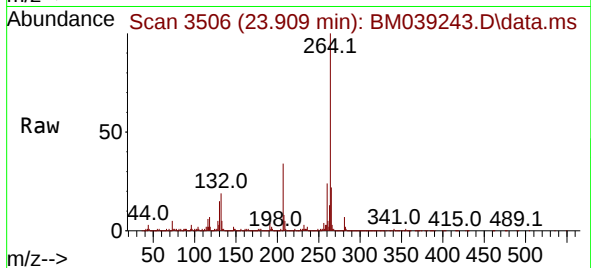
Tgt Ion:264 Resp: 1248542

Ion Ratio Lower Upper

264 100

260 23.6 19.0 28.6

265 22.1 18.1 27.1



#87

Indeno(1,2,3-cd)pyrene

Concen: 3.399 ng

RT: 26.409 min Scan# 3931

Delta R.T. -0.035 min

Lab File: BM039243.D

Acq: 31 Mar 2023 01:14

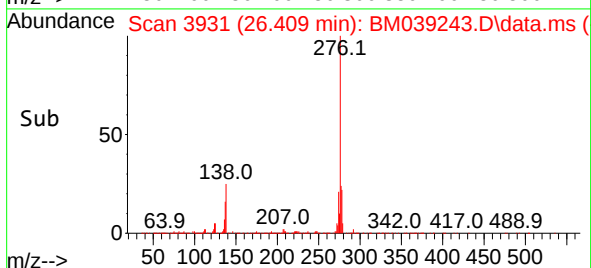
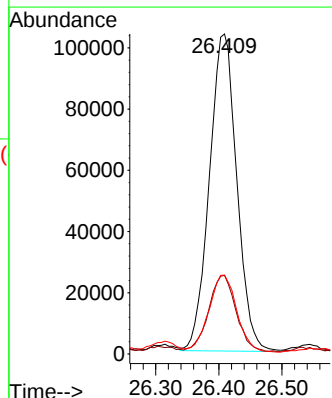
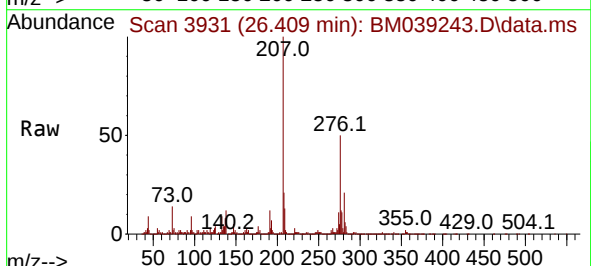
Tgt Ion:276 Resp: 312679

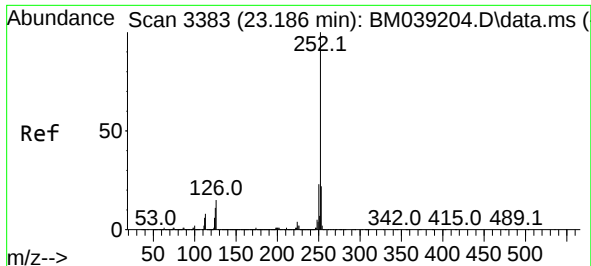
Ion Ratio Lower Upper

276 100

138 23.9 22.2 33.2

277 24.9 20.2 30.2

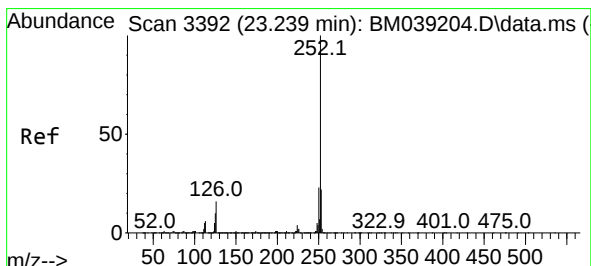
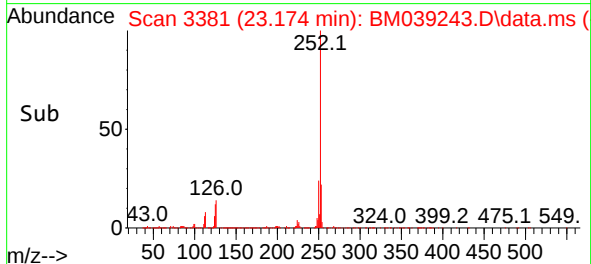
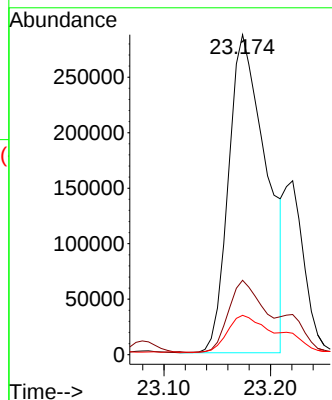
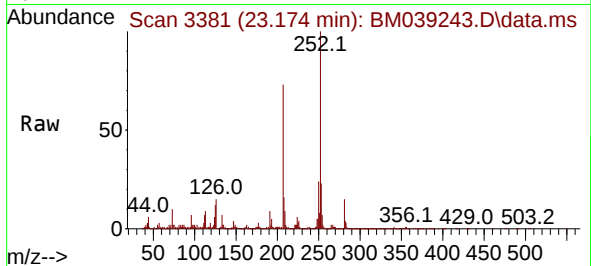




#88
Benzo(b)fluoranthene
Concen: 9.257 ng
RT: 23.174 min Scan# 3381
Delta R.T. -0.012 min
Lab File: BM039243.D
Acq: 31 Mar 2023 01:14

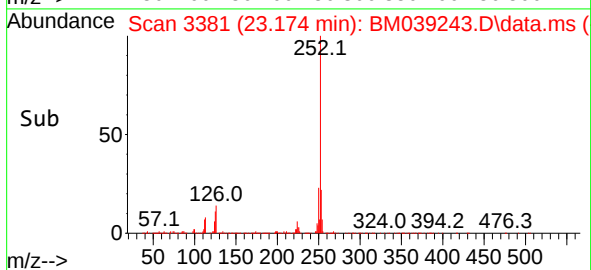
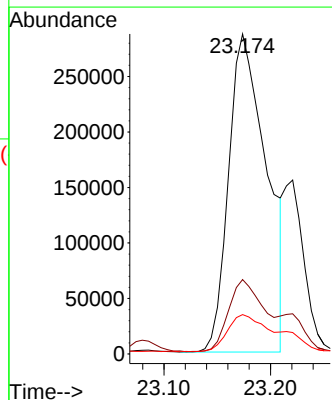
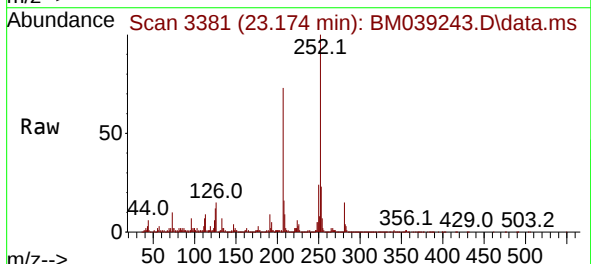
Instrument :
BNA_M
ClientSampleId :
WV-SOIL1-0327

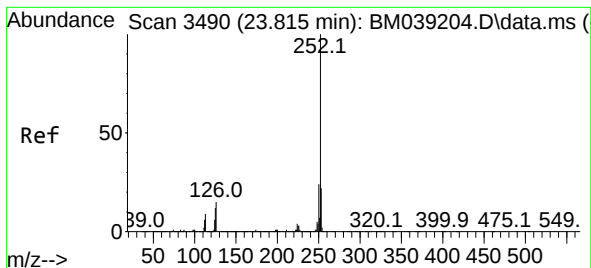
Tgt Ion:252 Resp: 707223
Ion Ratio Lower Upper
252 100
253 23.2 17.6 26.4
125 12.3 9.0 13.6



#89
Benzo(k)fluoranthene
Concen: 9.088 ng
RT: 23.174 min Scan# 3381
Delta R.T. -0.065 min
Lab File: BM039243.D
Acq: 31 Mar 2023 01:14

Tgt Ion:252 Resp: 707223
Ion Ratio Lower Upper
252 100
253 23.2 17.8 26.8
125 12.3 8.5 12.7





#90

Benzo(a)pyrene

Concen: 7.132 ng

RT: 23.797 min Scan# 34

Delta R.T. -0.018 min

Lab File: BM039243.D

Acq: 31 Mar 2023 01:14

Instrument :

BNA_M

ClientSampleId :

WV-SOIL1-0327

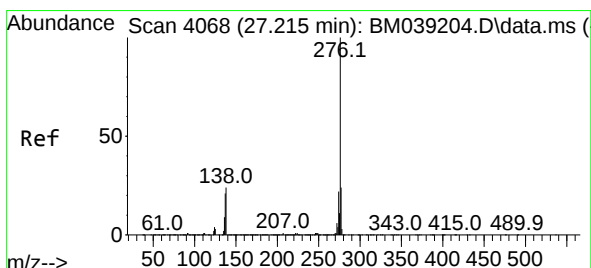
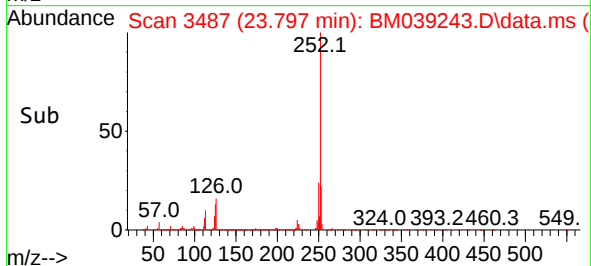
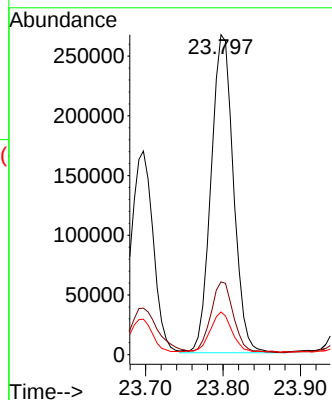
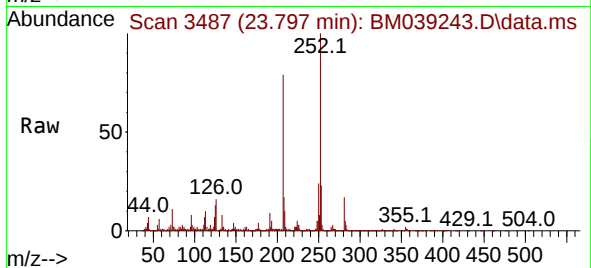
Tgt Ion:252 Resp: 535241

Ion Ratio Lower Upper

252 100

253 22.8 17.6 26.4

125 13.4 9.8 14.6



#92

Benzo(g,h,i)perylene

Concen: 4.097 ng

RT: 27.179 min Scan# 4062

Delta R.T. -0.035 min

Lab File: BM039243.D

Acq: 31 Mar 2023 01:14

Tgt Ion:276 Resp: 311193

Ion Ratio Lower Upper

276 100

277 24.9 19.1 28.7

138 25.0 19.5 29.3

