

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041825\
 Data File : BM049965.D
 Acq On : 18 Apr 2025 14:29
 Operator : RC/JU
 Sample : Q1830-11
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SOIL-2

Quant Time: Apr 18 15:04:55 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 09 04:00:55 2025
 Response via : Initial Calibration

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

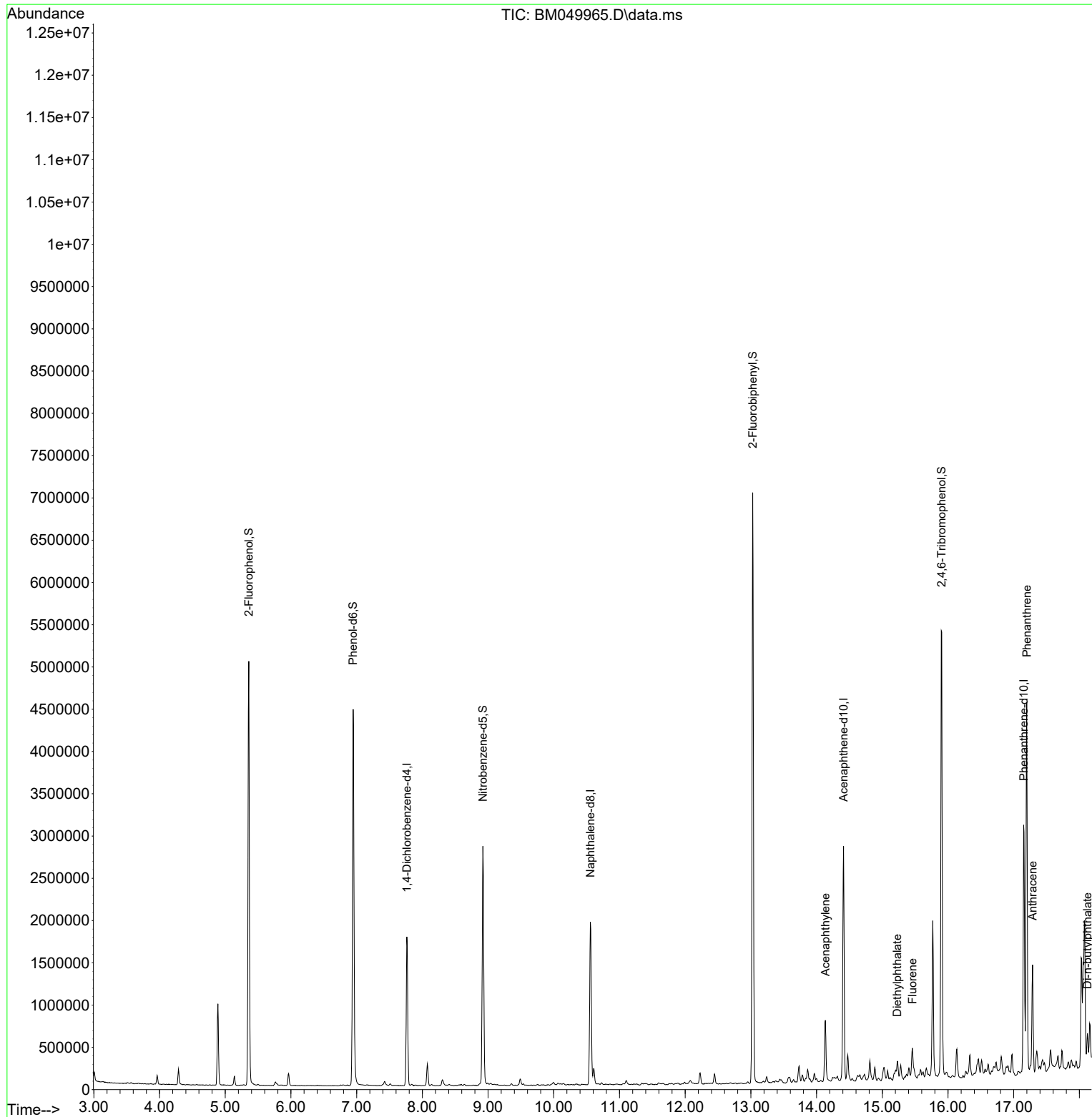
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.763	152	513757	20.000	ng	-0.02
21) Naphthalene-d8	10.557	136	1700398	20.000	ng	-0.02
39) Acenaphthene-d10	14.410	164	1014212	20.000	ng	-0.01
64) Phenanthrene-d10	17.151	188	1810527	20.000	ng	-0.01
76) Chrysene-d12	21.392	240	1642672	20.000	ng	-0.01
86) Perylene-d12	24.392	264	1743343	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.358	112	2245071	74.204	ng	0.00
7) Phenol-d6	6.946	99	2742878	72.865	ng	0.00
23) Nitrobenzene-d5	8.922	82	1647042	53.938	ng	-0.01
42) 2,4,6-Tribromophenol	15.904	330	1108440	75.138	ng	0.00
45) 2-Fluorobiphenyl	13.028	172	3792590	50.707	ng	-0.02
79) Terphenyl-d14	19.780	244	4388566	50.067	ng	-0.01
Target Compounds						Qvalue
49) Acenaphthylene	14.134	152	558718	6.473	ng	98
58) Fluorene	15.457	166	193137	2.647	ng	98
60) Diethylphthalate	15.228	149	138306	2.016	ng	99
71) Phenanthrene	17.198	178	2671532	26.914	ng	100
72) Anthracene	17.286	178	819339	8.376	ng	99
74) Di-n-butylphthalate	18.121	149	294719	2.777	ng	98
75) Fluoranthene	19.216	202	5732699	46.972	ng	99
78) Pyrene	19.580	202	5737575	50.681	ng	99
81) Benzo(a)anthracene	21.380	228	2689621	24.637	ng	95
83) Chrysene	21.439	228	2556182	24.628	ng	98
87) Indeno(1,2,3-cd)pyrene	27.774	276	1454049	11.189	ng	96
88) Benzo(b)fluoranthene	23.451	252	3066782	27.544	ng	98
89) Benzo(k)fluoranthene	23.503	252	956769m	8.867	ng	
90) Benzo(a)pyrene	24.250	252	2294617	23.453	ng	99
91) Dibenzo(a,h)anthracene	27.815	278	395525	3.695	ng	# 91
92) Benzo(g,h,i)perylene	28.827	276	1467404	13.416	ng	99

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

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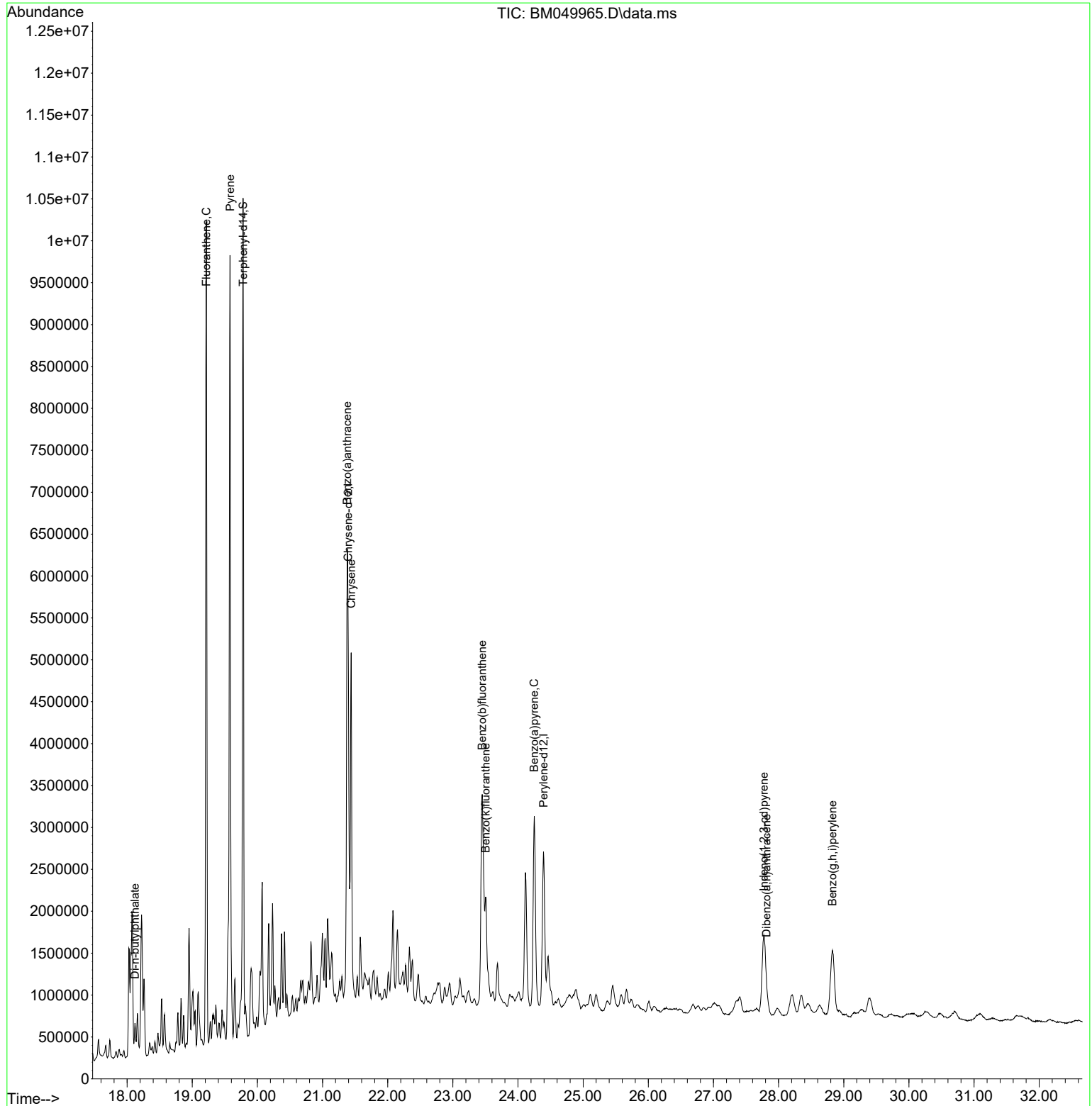
Quant Time: Apr 18 15:04:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
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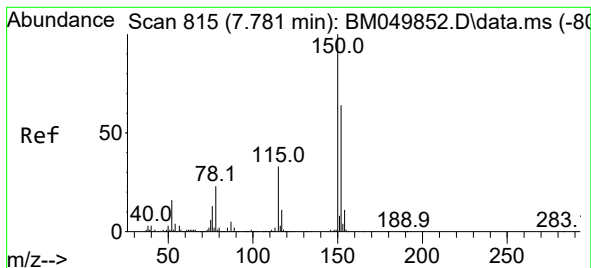


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041825\
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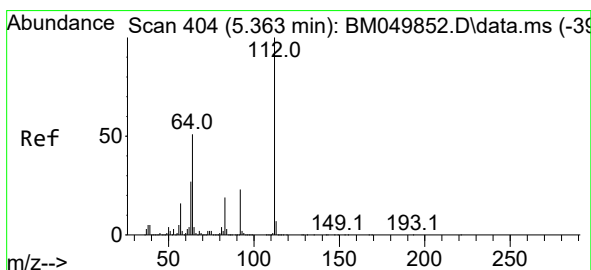
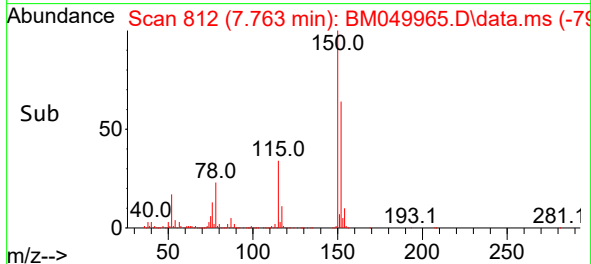
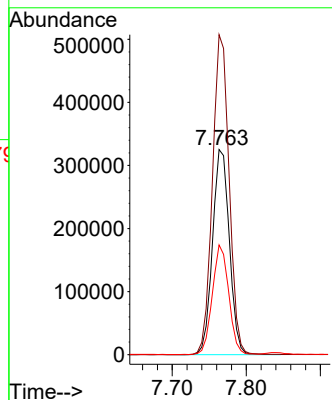
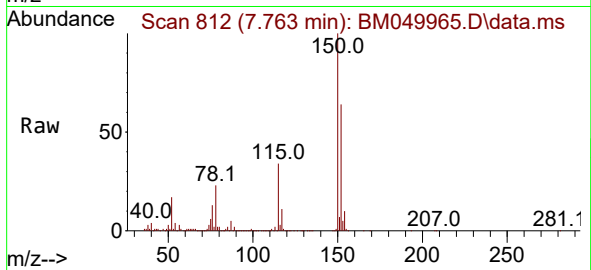




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.763 min Scan# 815
Delta R.T. -0.018 min
Lab File: BM049965.D
Acq: 18 Apr 2025 14:29

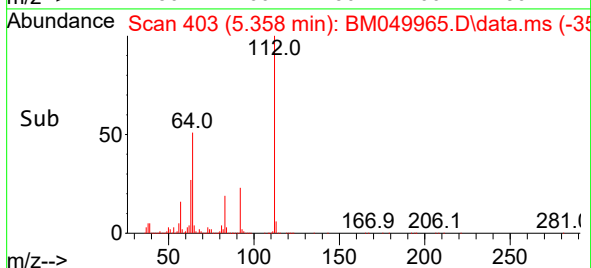
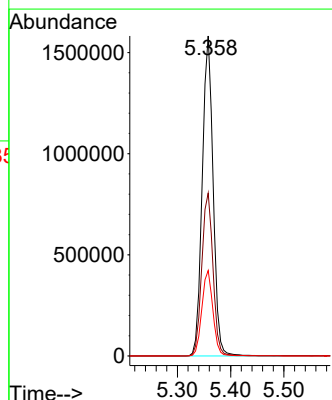
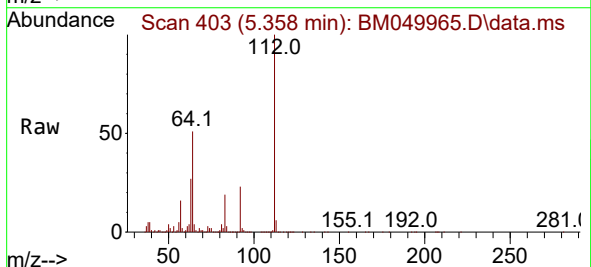
Instrument :
BNA_M
ClientSampleId :
SOIL-2

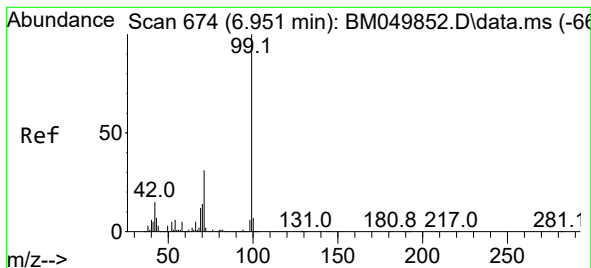
Tgt Ion:152 Resp: 513757
Ion Ratio Lower Upper
152 100
150 156.0 124.3 186.5
115 53.5 41.1 61.7



#5
2-Fluorophenol
Concen: 74.204 ng
RT: 5.358 min Scan# 403
Delta R.T. -0.006 min
Lab File: BM049965.D
Acq: 18 Apr 2025 14:29

Tgt Ion:112 Resp: 2245071
Ion Ratio Lower Upper
112 100
64 50.9 41.0 61.6
63 26.7 21.5 32.3





#7

Phenol-d6

Concen: 72.865 ng

RT: 6.946 min Scan# 61

Delta R.T. -0.006 min

Lab File: BM049965.D

Acq: 18 Apr 2025 14:29

Instrument :

BNA_M

ClientSampleId :

SOIL-2

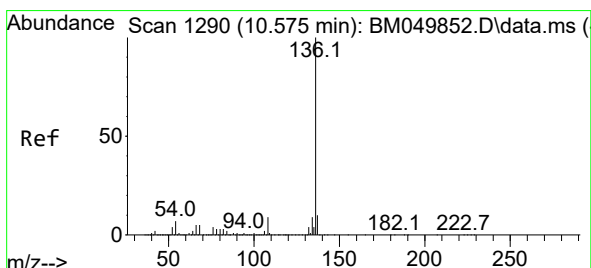
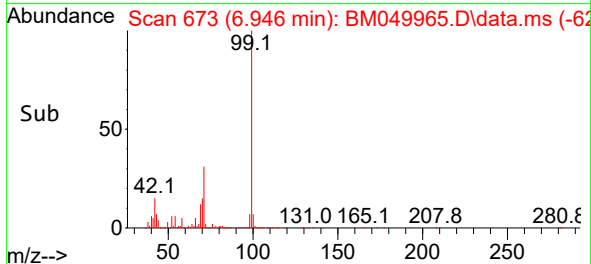
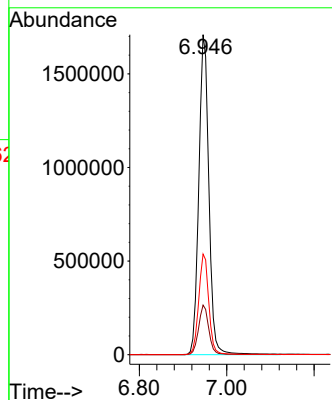
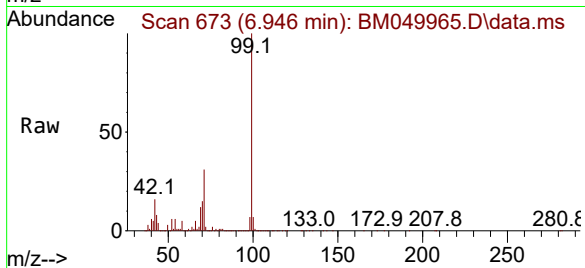
Tgt Ion: 99 Resp: 2742878

Ion Ratio Lower Upper

99 100

42 15.5 12.1 18.1

71 31.4 24.9 37.3



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.557 min Scan# 1287

Delta R.T. -0.017 min

Lab File: BM049965.D

Acq: 18 Apr 2025 14:29

Tgt Ion: 136 Resp: 1700398

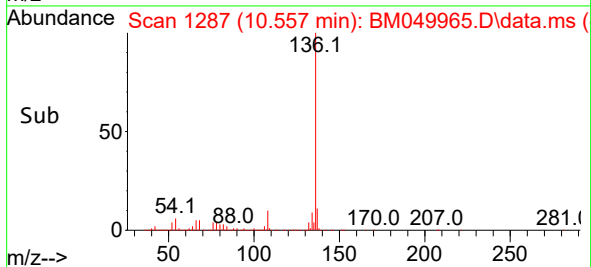
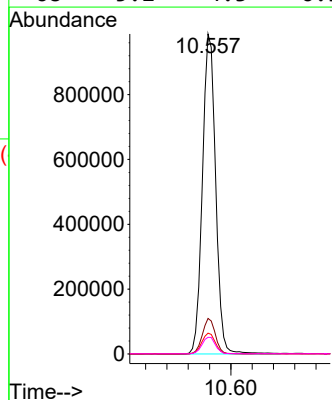
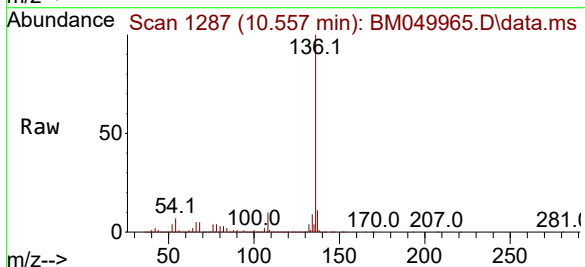
Ion Ratio Lower Upper

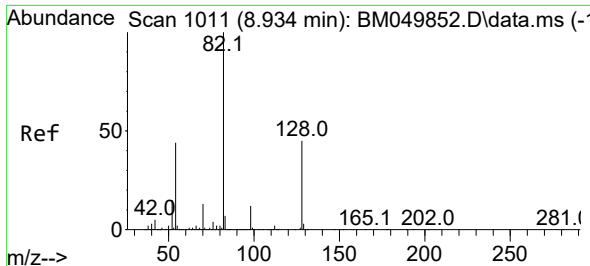
136 100

137 11.1 8.4 12.6

54 6.5 5.3 7.9

68 5.2 4.3 6.5





#23

Nitrobenzene-d5

Concen: 53.938 ng

RT: 8.922 min Scan# 1009

Delta R.T. -0.011 min

Lab File: BM049965.D

Acq: 18 Apr 2025 14:29

Instrument :

BNA_M

ClientSampleId :

SOIL-2

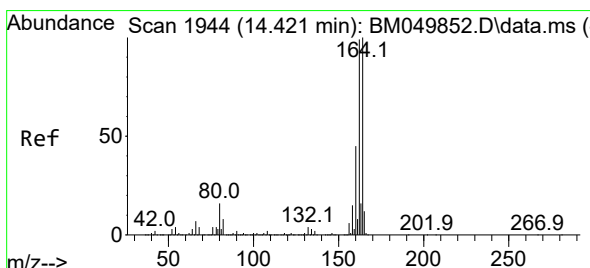
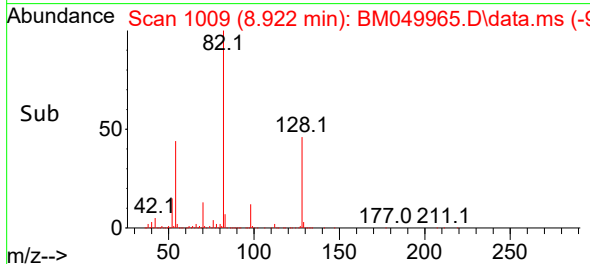
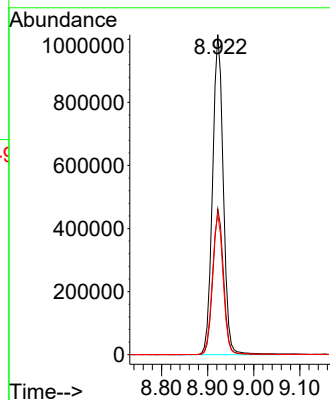
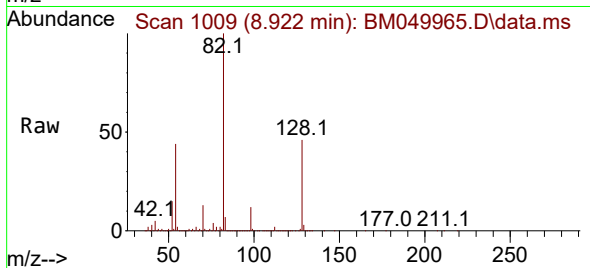
Tgt Ion: 82 Resp: 1647042

Ion Ratio Lower Upper

82 100

128 45.6 36.2 54.2

54 43.8 35.0 52.6



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.410 min Scan# 1942

Delta R.T. -0.011 min

Lab File: BM049965.D

Acq: 18 Apr 2025 14:29

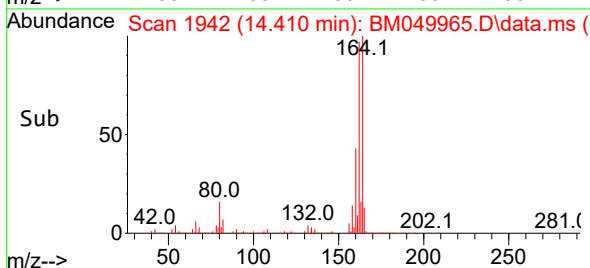
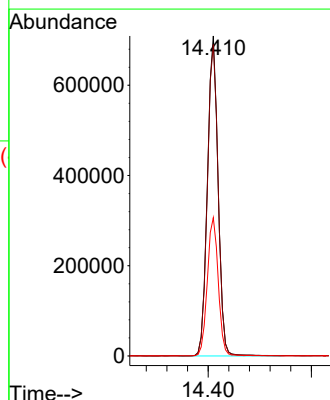
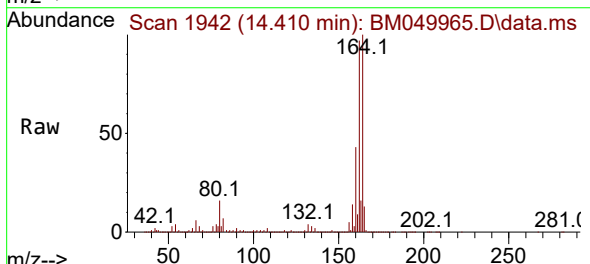
Tgt Ion:164 Resp: 1014212

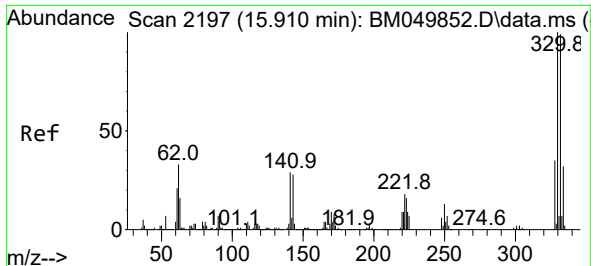
Ion Ratio Lower Upper

164 100

162 97.3 79.4 119.0

160 43.2 36.2 54.2

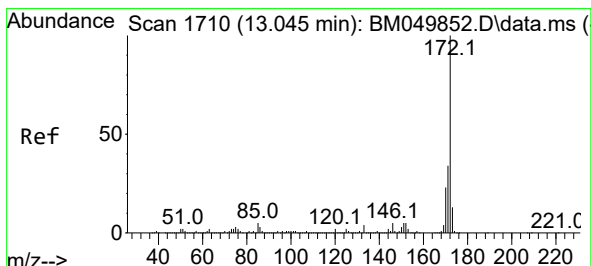
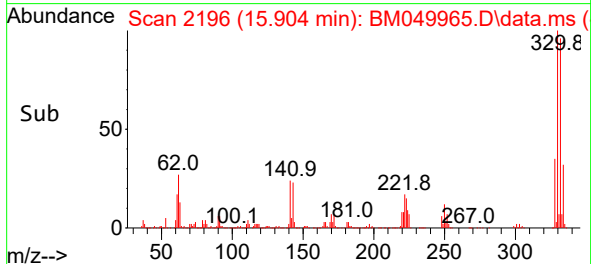
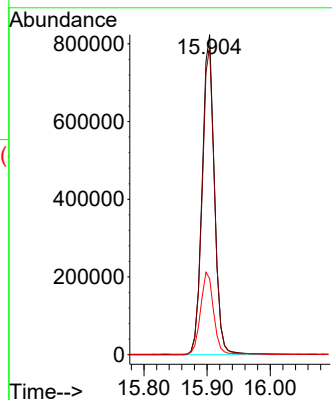
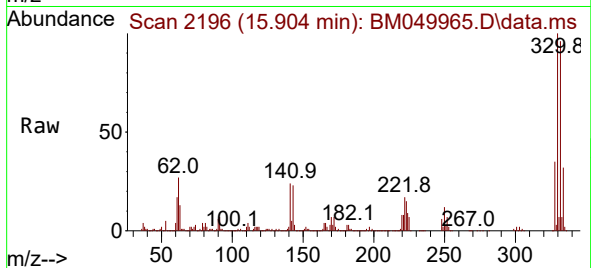




#42
2,4,6-Tribromophenol
Concen: 75.138 ng
RT: 15.904 min Scan# 2197
Delta R.T. -0.006 min
Lab File: BM049965.D
Acq: 18 Apr 2025 14:29

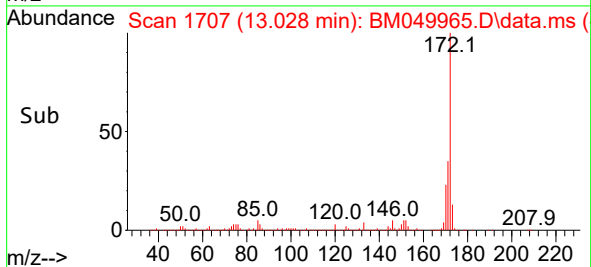
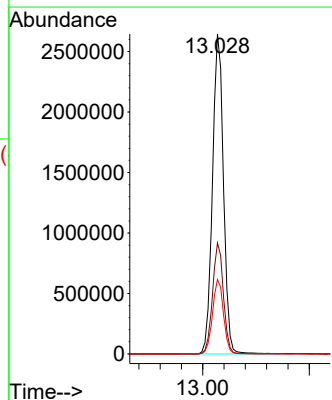
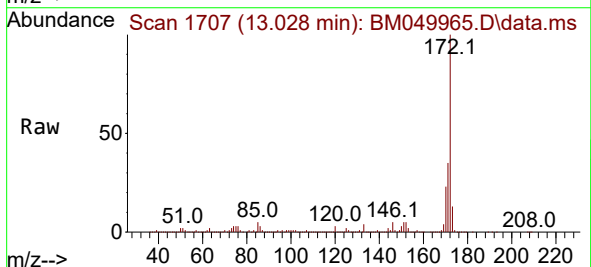
Instrument :
BNA_M
ClientSampleId :
SOIL-2

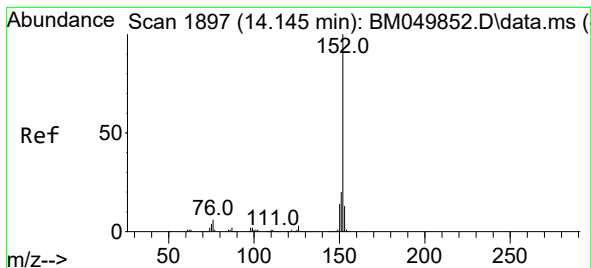
Tgt Ion:330 Resp: 1108440
Ion Ratio Lower Upper
330 100
332 96.4 78.0 117.0
141 26.9 23.5 35.3



#45
2-Fluorobiphenyl
Concen: 50.707 ng
RT: 13.028 min Scan# 1707
Delta R.T. -0.017 min
Lab File: BM049965.D
Acq: 18 Apr 2025 14:29

Tgt Ion:172 Resp: 3792590
Ion Ratio Lower Upper
172 100
171 34.7 27.4 41.2
170 23.3 18.6 28.0





#49

Acenaphthylene

Concen: 6.473 ng

RT: 14.134 min Scan# 1

Delta R.T. -0.011 min

Lab File: BM049965.D

Acq: 18 Apr 2025 14:29

Instrument :

BNA_M

ClientSampleId :

SOIL-2

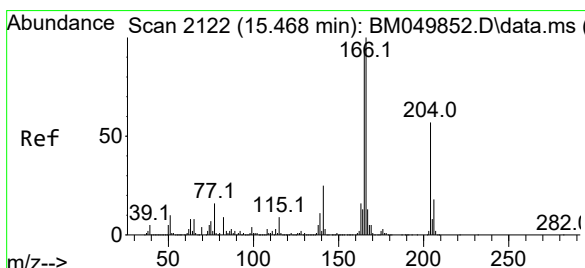
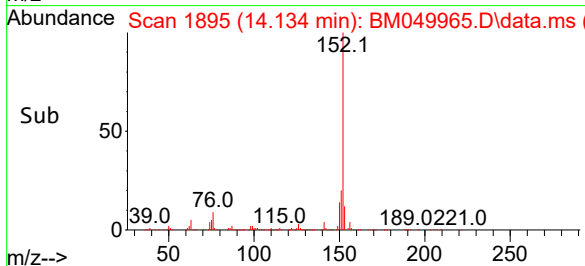
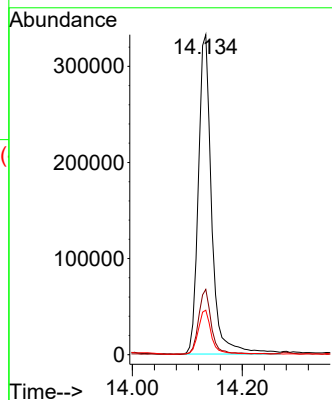
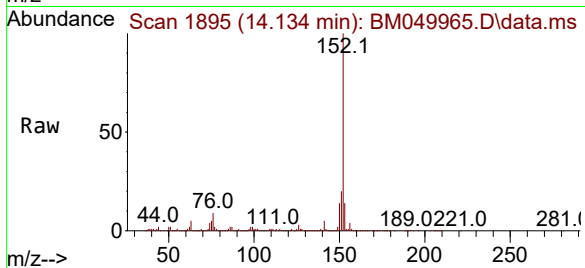
Tgt Ion:152 Resp: 558718

Ion Ratio Lower Upper

152 100

151 20.4 15.7 23.5

153 13.9 10.4 15.6



#58

Fluorene

Concen: 2.647 ng

RT: 15.457 min Scan# 2120

Delta R.T. -0.011 min

Lab File: BM049965.D

Acq: 18 Apr 2025 14:29

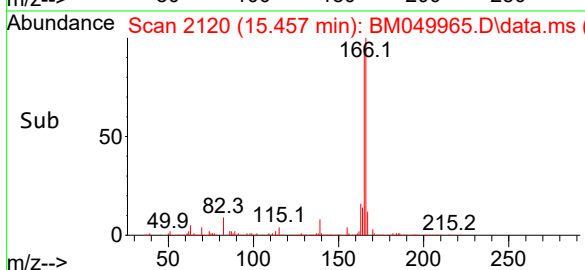
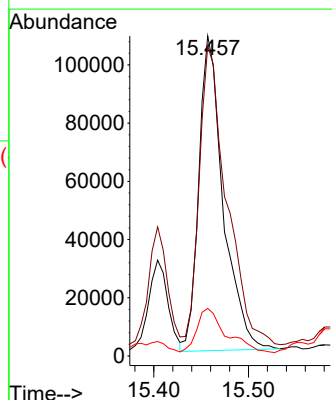
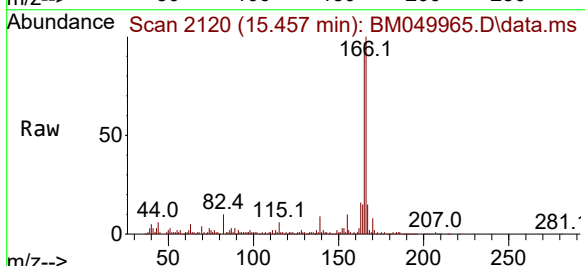
Tgt Ion:166 Resp: 193137

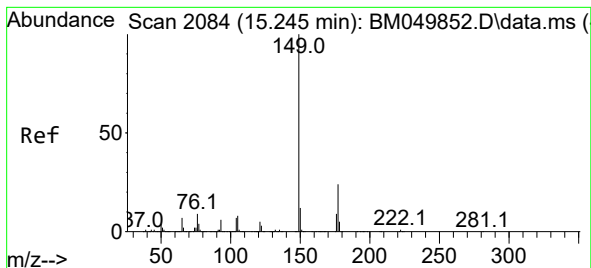
Ion Ratio Lower Upper

166 100

165 96.9 76.3 114.5

167 14.9 10.7 16.1





#60

Diethylphthalate

Concen: 2.016 ng

RT: 15.228 min Scan# 20

Delta R.T. -0.017 min

Lab File: BM049965.D

Acq: 18 Apr 2025 14:29

Instrument :

BNA_M

ClientSampleId :

SOIL-2

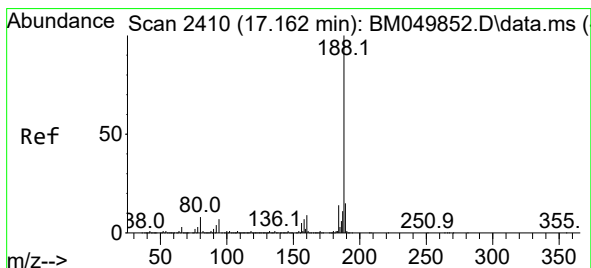
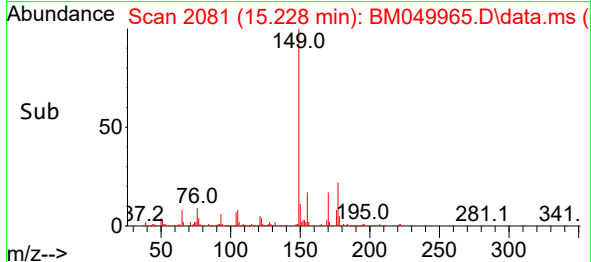
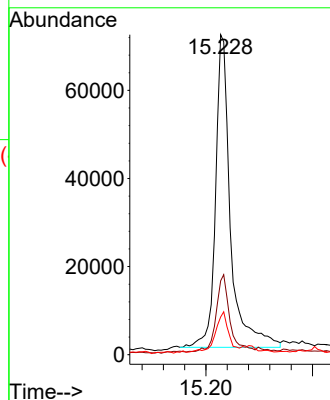
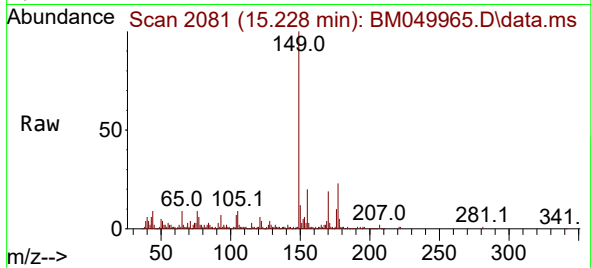
Tgt Ion:149 Resp: 138306

Ion Ratio Lower Upper

149 100

177 23.1 19.0 28.4

150 11.8 9.7 14.5



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.151 min Scan# 2408

Delta R.T. -0.011 min

Lab File: BM049965.D

Acq: 18 Apr 2025 14:29

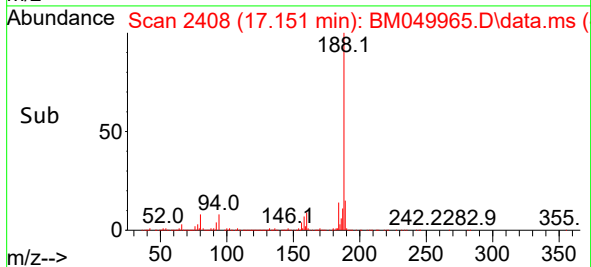
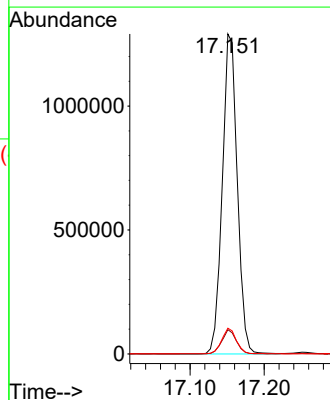
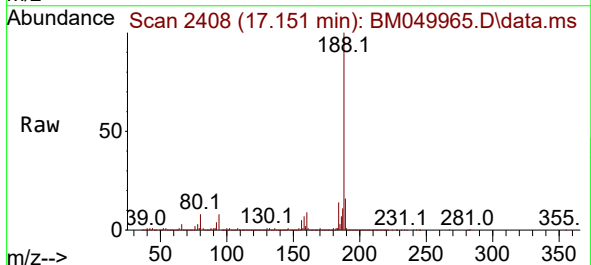
Tgt Ion:188 Resp: 1810527

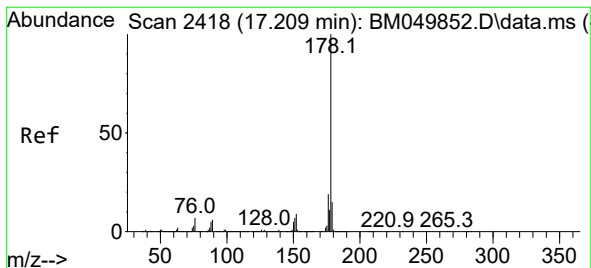
Ion Ratio Lower Upper

188 100

94 7.6 5.8 8.6

80 8.0 6.4 9.6





#71

Phenanthrene

Concen: 26.914 ng

RT: 17.198 min Scan# 2418

Delta R.T. -0.011 min

Lab File: BM049965.D

Acq: 18 Apr 2025 14:29

Instrument :

BNA_M

ClientSampleId :

SOIL-2

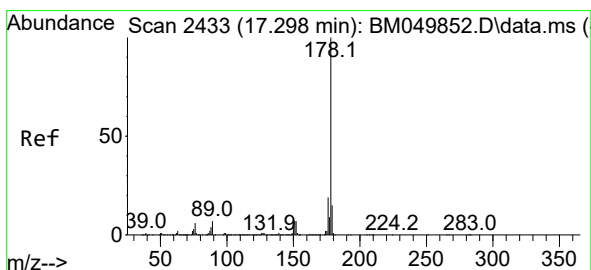
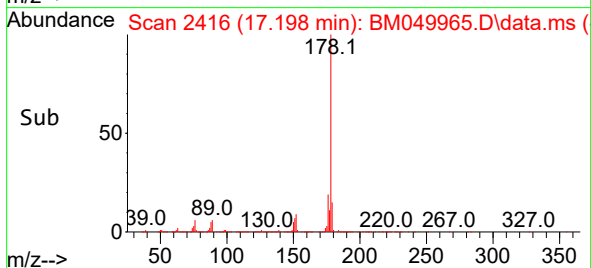
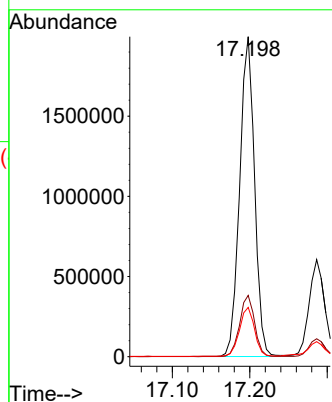
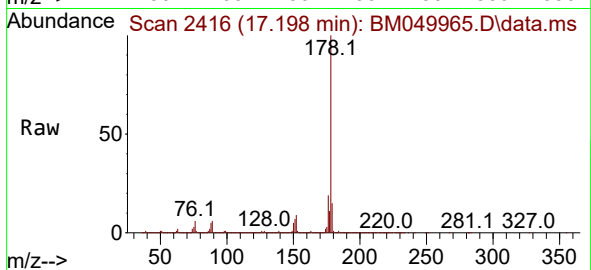
Tgt Ion:178 Resp: 2671532

Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.2

179 15.4 12.3 18.5



#72

Anthracene

Concen: 8.376 ng

RT: 17.286 min Scan# 2431

Delta R.T. -0.011 min

Lab File: BM049965.D

Acq: 18 Apr 2025 14:29

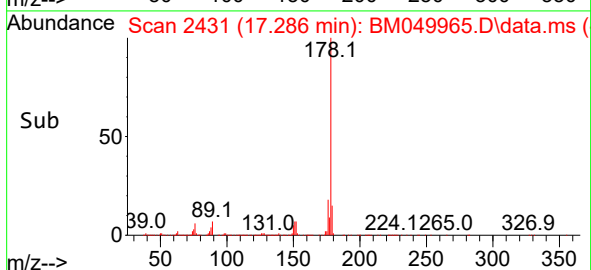
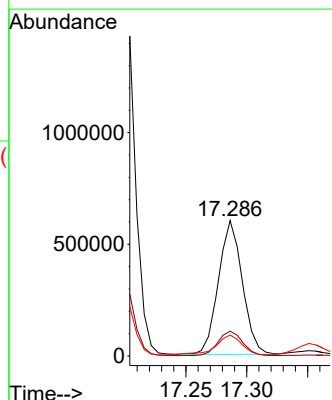
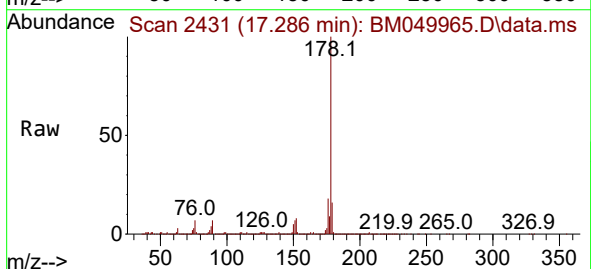
Tgt Ion:178 Resp: 819339

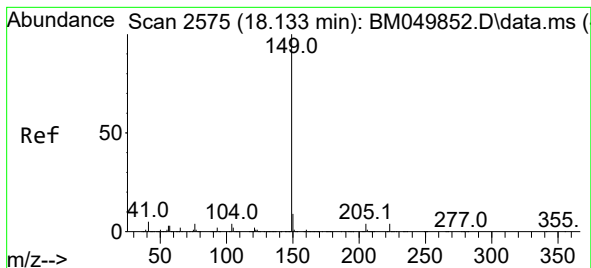
Ion Ratio Lower Upper

178 100

176 18.4 15.1 22.7

179 15.5 12.4 18.6





#74

Di-n-butylphthalate

Concen: 2.777 ng

RT: 18.121 min Scan# 21

Delta R.T. -0.011 min

Lab File: BM049965.D

Acq: 18 Apr 2025 14:29

Instrument :

BNA_M

ClientSampleId :

SOIL-2

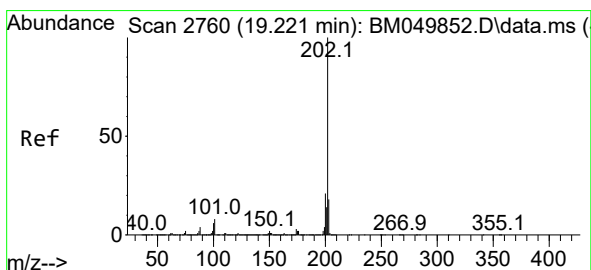
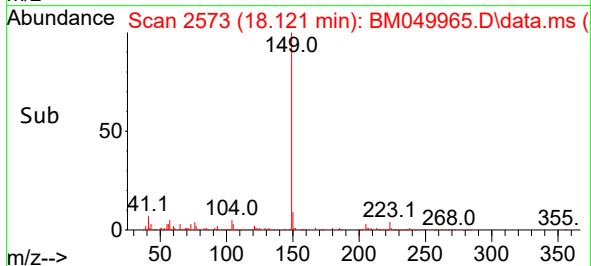
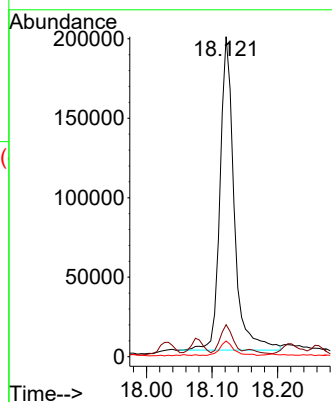
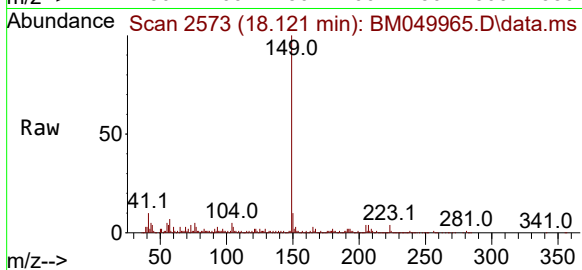
Tgt Ion:149 Resp: 294719

Ion Ratio Lower Upper

149 100

150 10.0 7.5 11.3

104 4.9 3.5 5.3



#75

Fluoranthene

Concen: 46.972 ng

RT: 19.216 min Scan# 2759

Delta R.T. -0.006 min

Lab File: BM049965.D

Acq: 18 Apr 2025 14:29

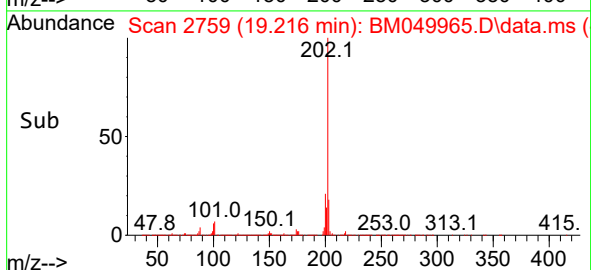
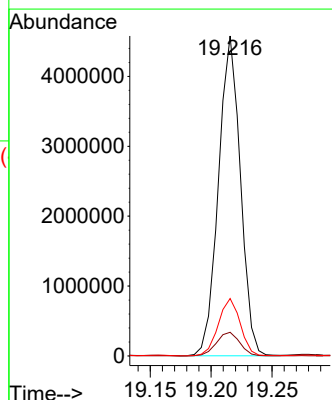
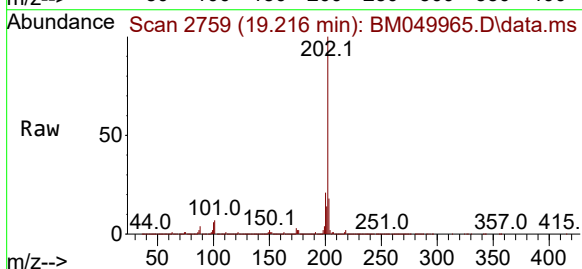
Tgt Ion:202 Resp: 5732699

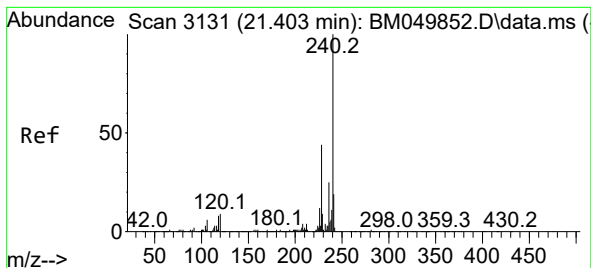
Ion Ratio Lower Upper

202 100

101 7.4 0.0 28.4

203 17.9 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.392 min Scan# 31

Delta R.T. -0.011 min

Lab File: BM049965.D

Acq: 18 Apr 2025 14:29

Instrument :

BNA_M

ClientSampleId :

SOIL-2

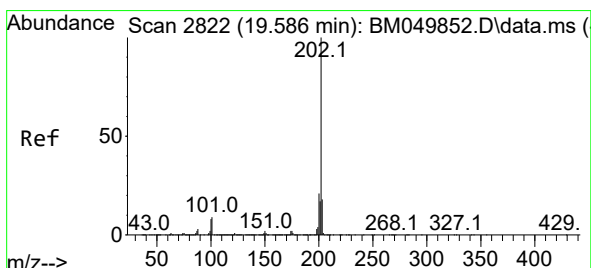
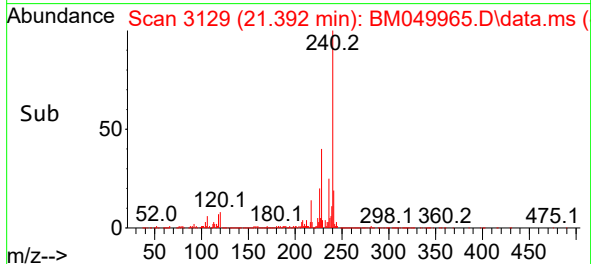
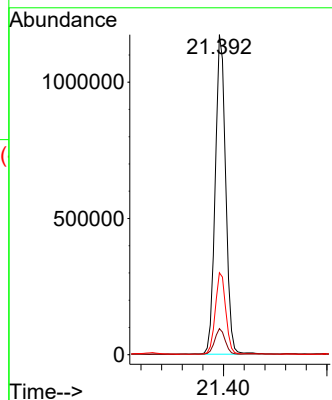
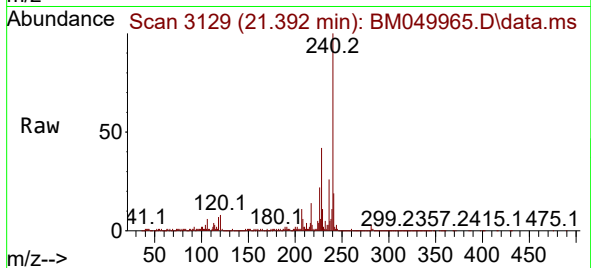
Tgt Ion:240 Resp: 1642672

Ion Ratio Lower Upper

240 100

120 8.2 6.9 10.3

236 25.6 20.4 30.6



#78

Pyrene

Concen: 50.681 ng

RT: 19.580 min Scan# 2821

Delta R.T. -0.006 min

Lab File: BM049965.D

Acq: 18 Apr 2025 14:29

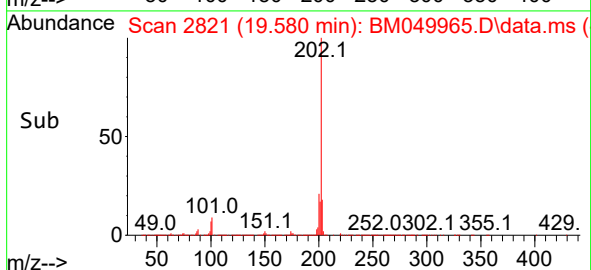
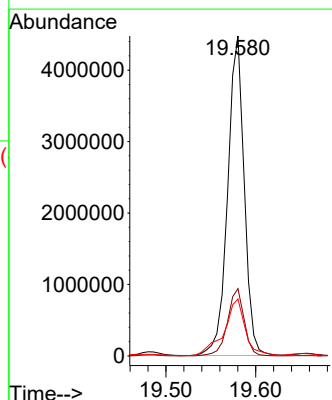
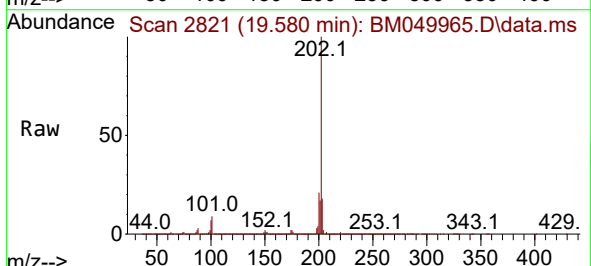
Tgt Ion:202 Resp: 5737575

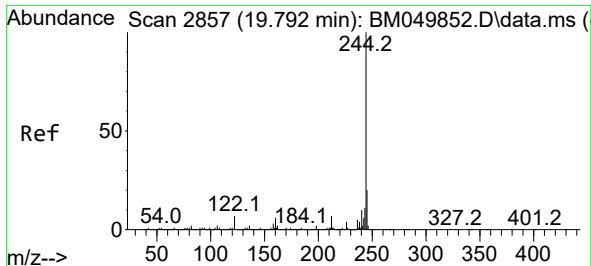
Ion Ratio Lower Upper

202 100

200 21.1 16.5 24.7

203 17.8 14.0 21.0

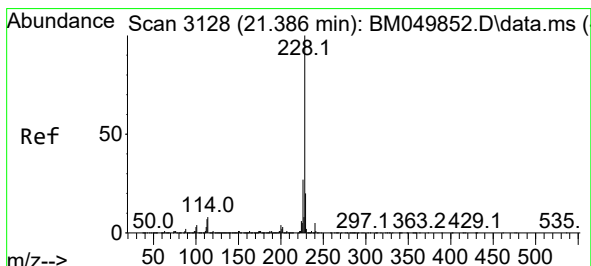
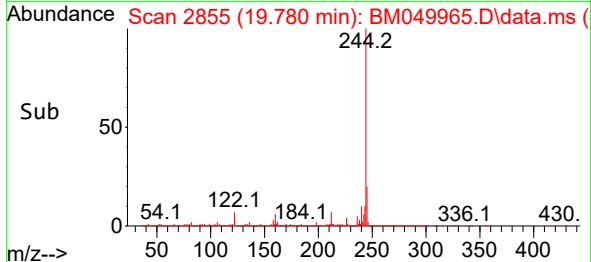
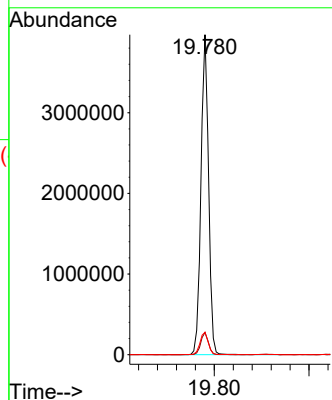
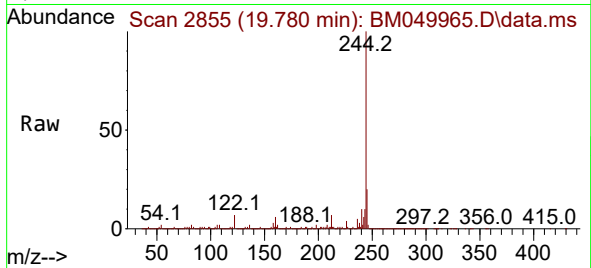




#79
 Terphenyl-d14
 Concen: 50.067 ng
 RT: 19.780 min Scan# 21
 Delta R.T. -0.011 min
 Lab File: BM049965.D
 Acq: 18 Apr 2025 14:29

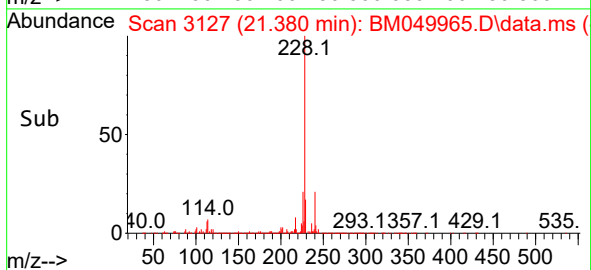
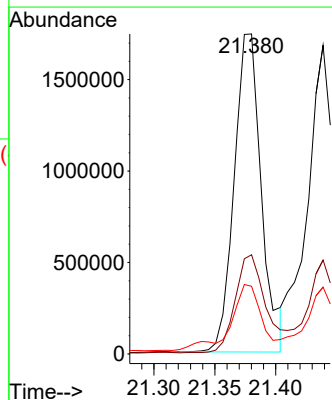
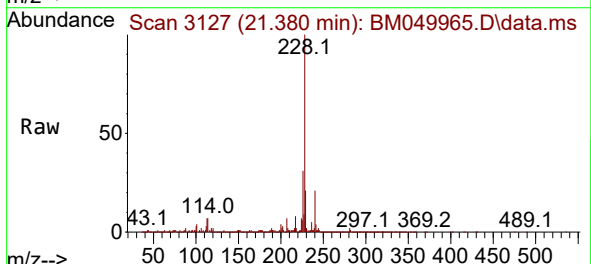
Instrument :
 BNA_M
 ClientSampleId :
 SOIL-2

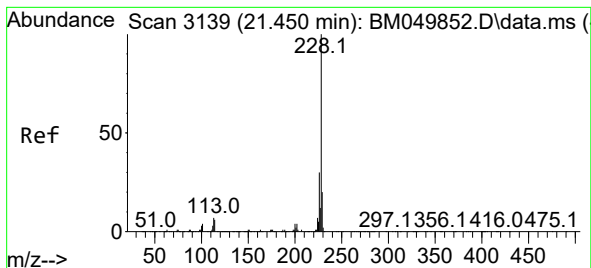
Tgt Ion:244 Resp: 4388566
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.5 8.3
 122 7.0 5.4 8.0



#81
 Benzo(a)anthracene
 Concen: 24.637 ng
 RT: 21.380 min Scan# 3127
 Delta R.T. -0.006 min
 Lab File: BM049965.D
 Acq: 18 Apr 2025 14:29

Tgt Ion:228 Resp: 2689621
 Ion Ratio Lower Upper
 228 100
 226 31.0 21.8 32.8
 229 21.2 15.8 23.8





#83

Chrysene

Concen: 24.628 ng

RT: 21.439 min Scan# 31

Delta R.T. -0.011 min

Lab File: BM049965.D

Acq: 18 Apr 2025 14:29

Instrument :

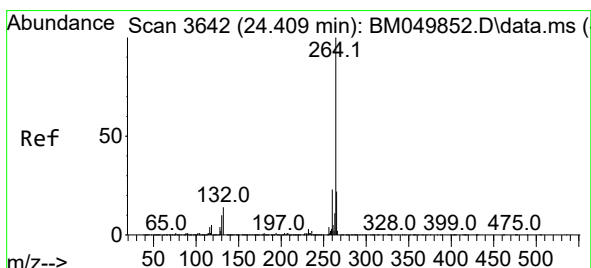
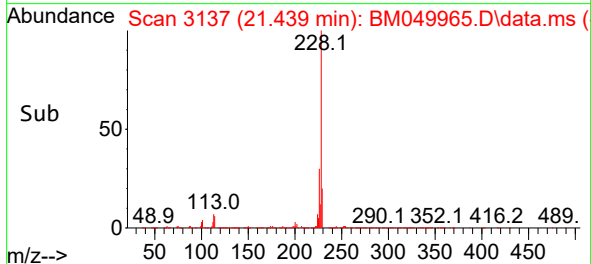
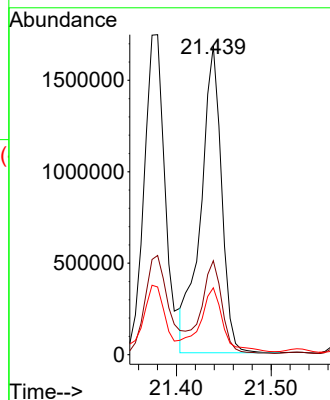
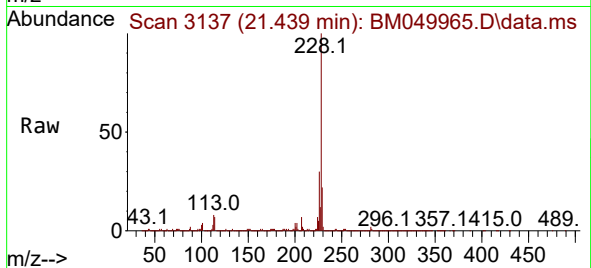
BNA_M

ClientSampleId :

SOIL-2

Tgt Ion:228 Resp: 2556182

Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.1	36.1
229	21.7	15.8	23.6



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.392 min Scan# 3639

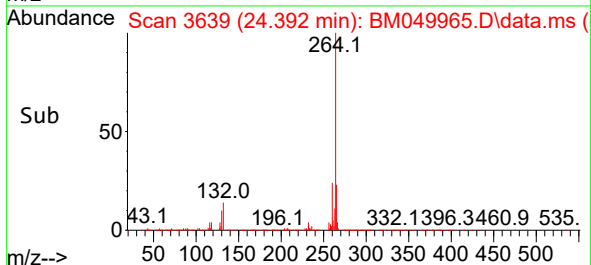
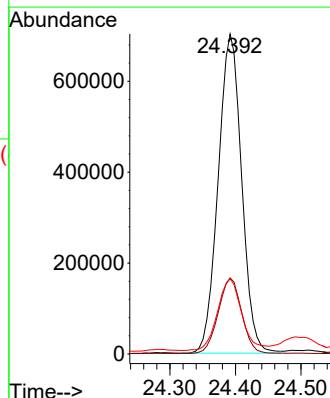
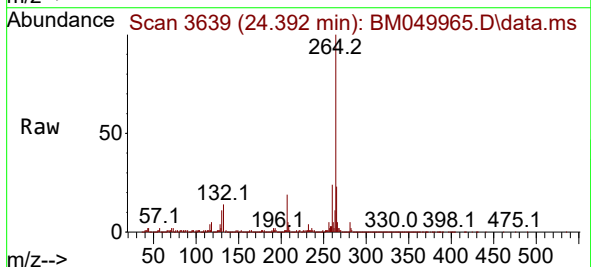
Delta R.T. -0.017 min

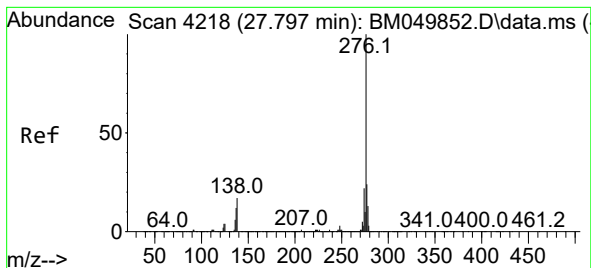
Lab File: BM049965.D

Acq: 18 Apr 2025 14:29

Tgt Ion:264 Resp: 1743343

Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.6	28.0
265	23.5	17.8	26.8





#87

Indeno(1,2,3-cd)pyrene

Concen: 11.189 ng

RT: 27.774 min Scan# 41

Delta R.T. -0.023 min

Lab File: BM049965.D

Acq: 18 Apr 2025 14:29

Instrument :

BNA_M

ClientSampleId :

SOIL-2

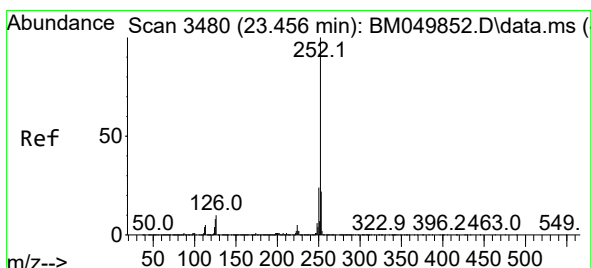
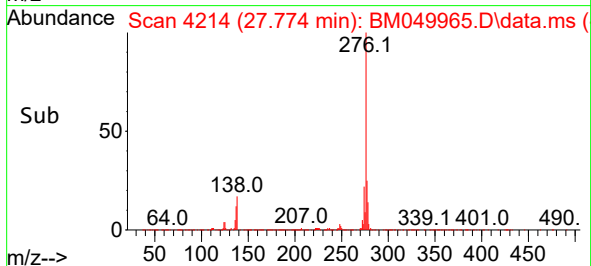
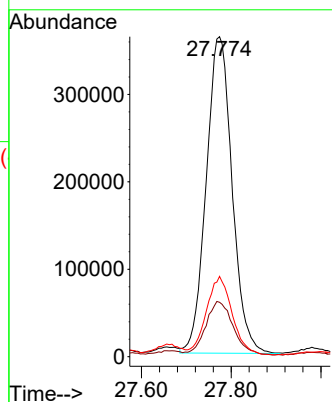
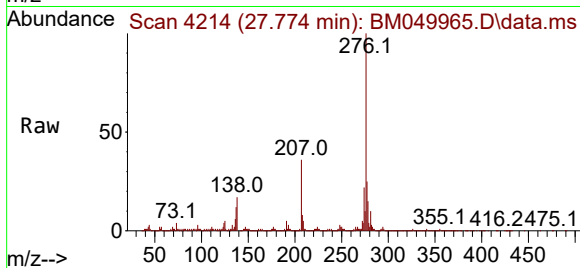
Tgt Ion:276 Resp: 1454049

Ion Ratio Lower Upper

276 100

138 17.8 16.8 25.2

277 24.6 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 27.544 ng

RT: 23.451 min Scan# 3479

Delta R.T. -0.006 min

Lab File: BM049965.D

Acq: 18 Apr 2025 14:29

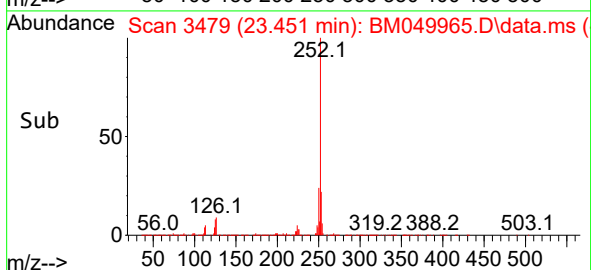
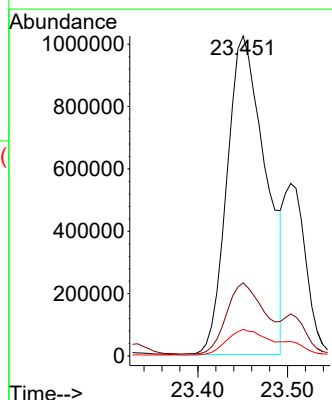
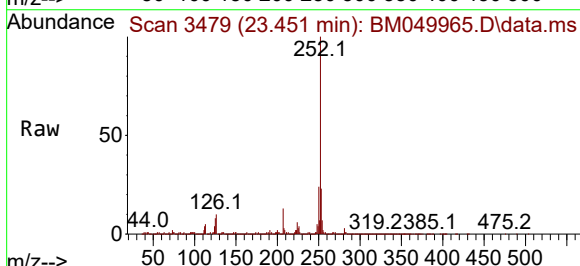
Tgt Ion:252 Resp: 3066782

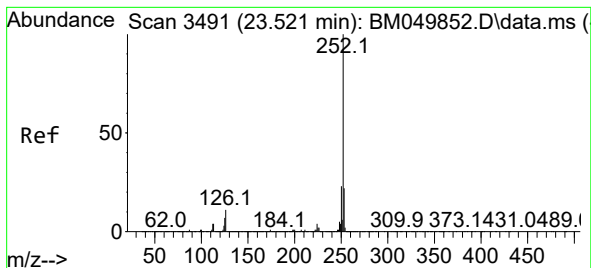
Ion Ratio Lower Upper

252 100

253 22.8 17.5 26.3

125 8.3 6.2 9.4





#89

Benzo(k)fluoranthene

Concen: 8.867 ng m

RT: 23.503 min Scan# 34

Delta R.T. -0.017 min

Lab File: BM049965.D

Acq: 18 Apr 2025 14:29

Instrument :

BNA_M

ClientSampleId :

SOIL-2

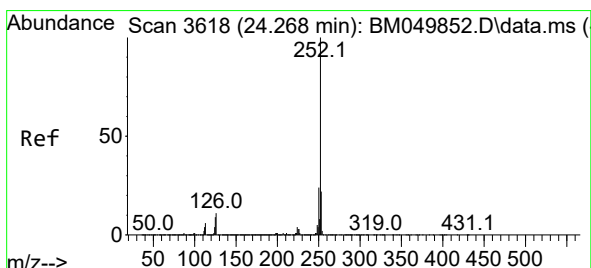
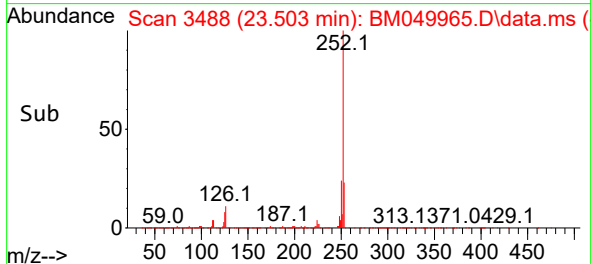
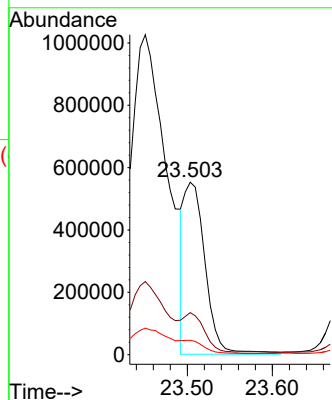
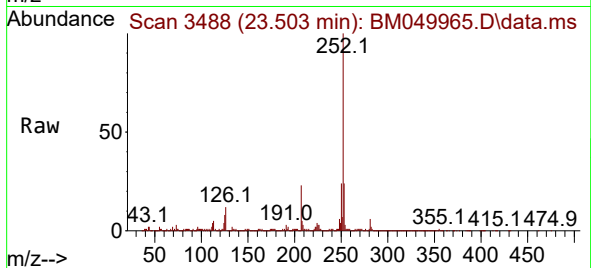
Tgt Ion:252 Resp: 956769

Ion Ratio Lower Upper

252 100

253 24.4 17.4 26.2

125 8.4 5.8 8.8



#90

Benzo(a)pyrene

Concen: 23.453 ng

RT: 24.250 min Scan# 3615

Delta R.T. -0.017 min

Lab File: BM049965.D

Acq: 18 Apr 2025 14:29

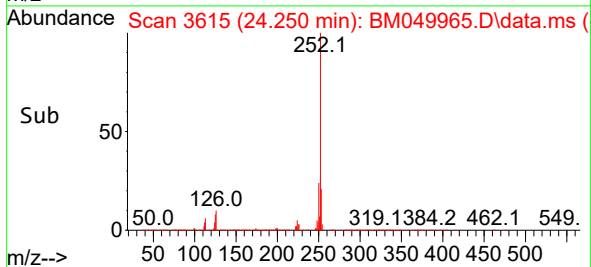
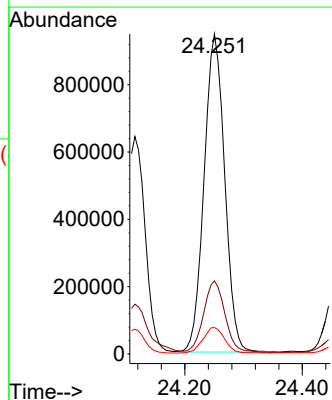
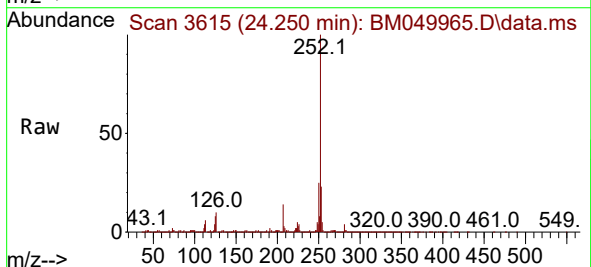
Tgt Ion:252 Resp: 2294617

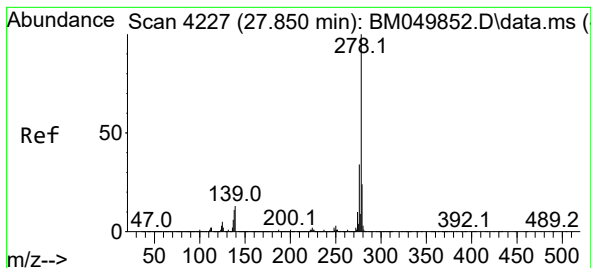
Ion Ratio Lower Upper

252 100

253 22.9 17.8 26.8

125 8.3 7.0 10.4





#91

Dibenzo(a,h)anthracene

Concen: 3.695 ng

RT: 27.815 min Scan# 41

Delta R.T. -0.035 min

Lab File: BM049965.D

Acq: 18 Apr 2025 14:29

Instrument :

BNA_M

ClientSampleId :

SOIL-2

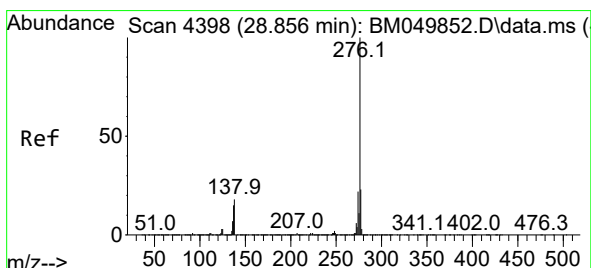
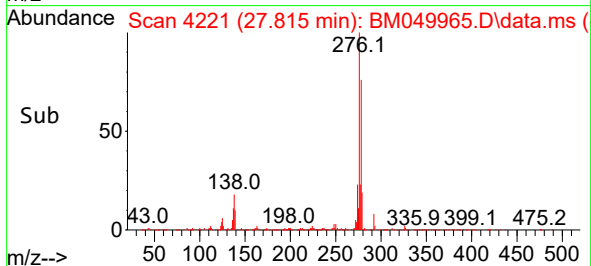
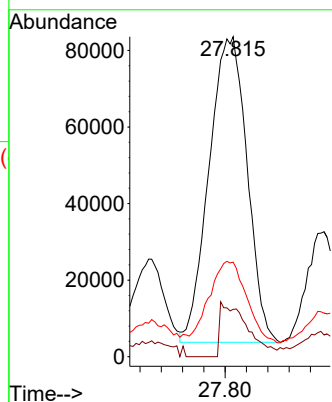
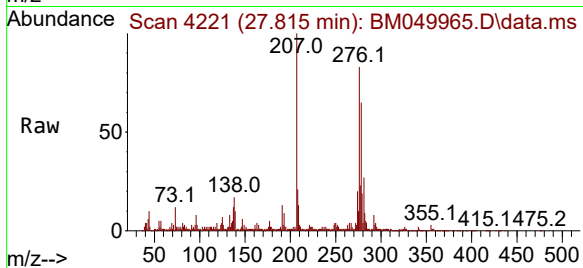
Tgt Ion:278 Resp: 395525

Ion Ratio Lower Upper

278 100

139 14.8 10.6 15.8

279 29.5 19.1 28.7#



#92

Benzo(g,h,i)perylene

Concen: 13.416 ng

RT: 28.827 min Scan# 4393

Delta R.T. -0.029 min

Lab File: BM049965.D

Acq: 18 Apr 2025 14:29

Tgt Ion:276 Resp: 1467404

Ion Ratio Lower Upper

276 100

277 24.1 18.7 28.1

138 18.1 14.6 21.8

