

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)

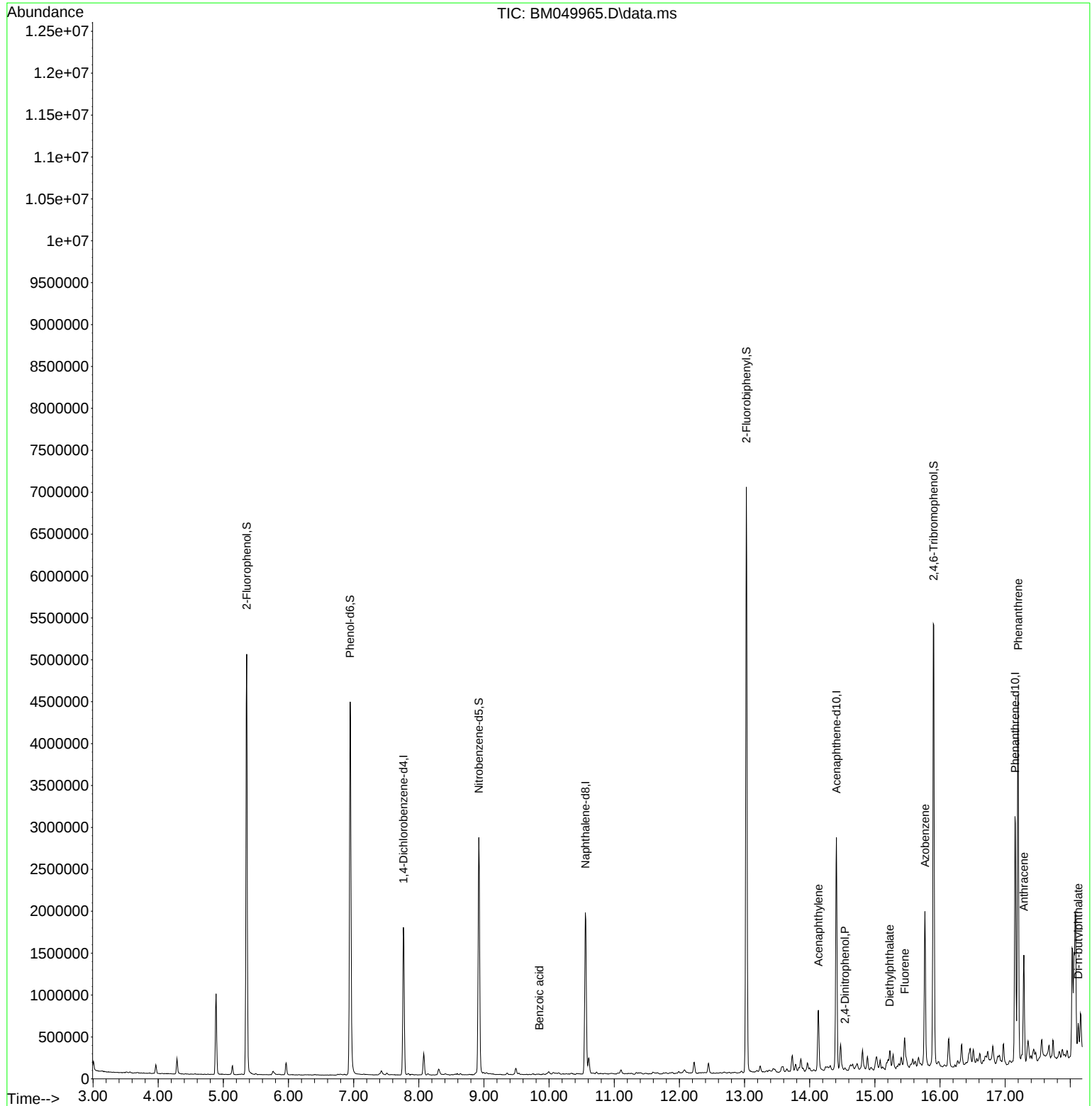
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.763	152	513757	20.000	ng	-0.02
21) Naphthalene-d8	10.557	136	1700398	20.000	ng	-0.02
39) Acenaphthene-d10	14.410	164	1014212	20.000	ng	-0.01
64) Phenanthrene-d10	17.151	188	1810527	20.000	ng	-0.01
76) Chrysene-d12	21.392	240	1642672	20.000	ng	-0.01
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
32) Benzoic acid	9.851	122	1874	8.609	ng	# 41
49) Acenaphthylene	14.134	152	558718	6.473	ng	98
54) 2,4-Dinitrophenol	14.539	184	55	7.229	ng	# 1
58) Fluorene	15.457	166	193137	2.647	ng	98
60) Diethylphthalate	15.228	149	138306	2.016	ng	99
63) Azobenzene	15.769	77	457318	7.785	ng	# 1
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	23.451	252	3066782	28.423	ng	98
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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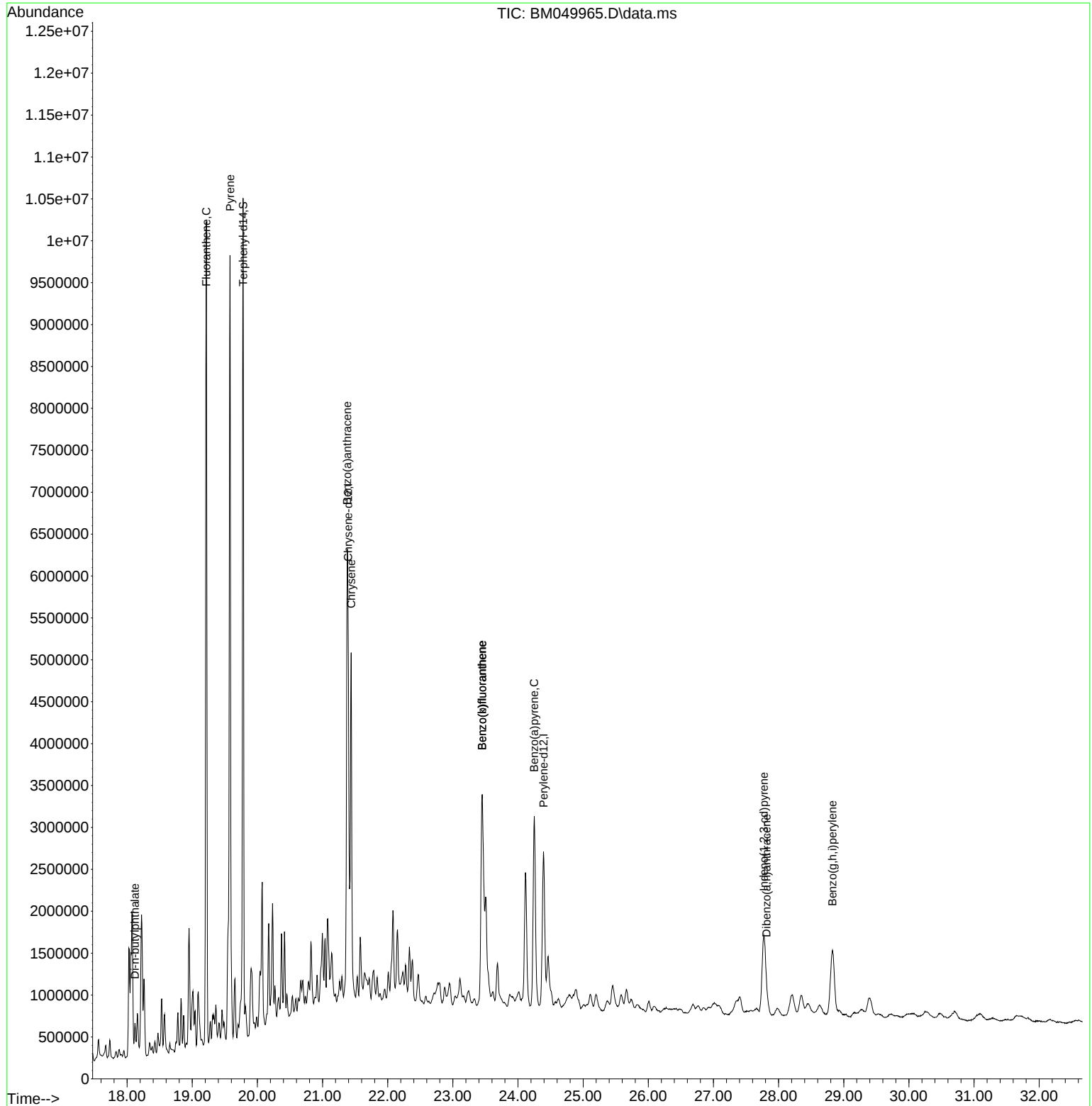
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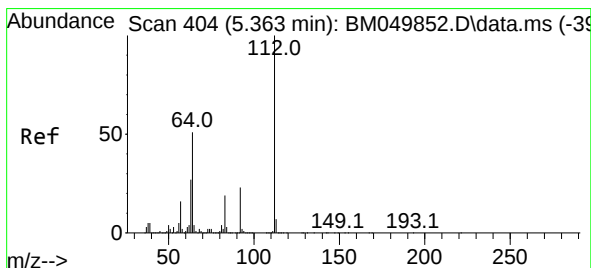
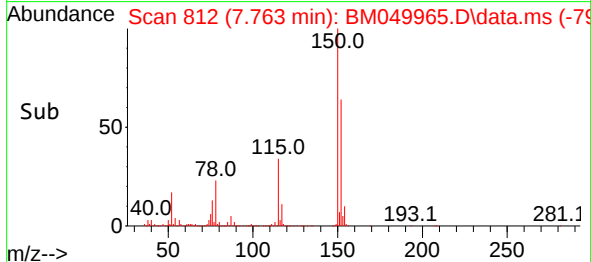
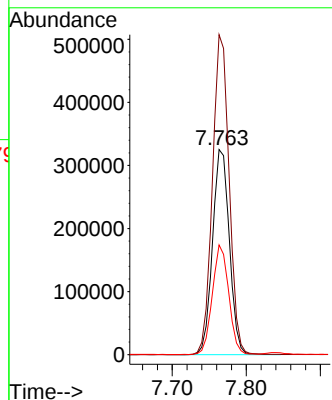
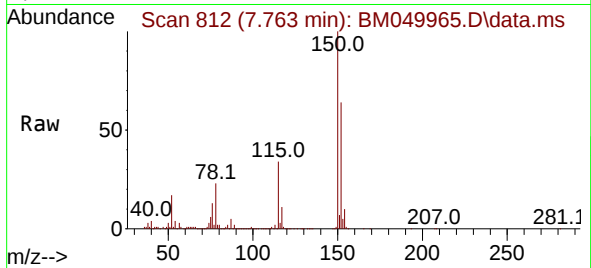




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.763 min Scan# 815
Delta R.T. -0.018 min
Lab File: BM049965.D
Acq: 18 Apr 2025 14:29

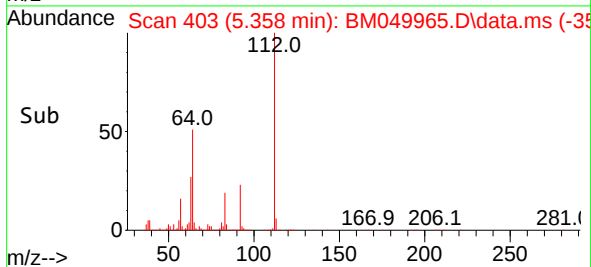
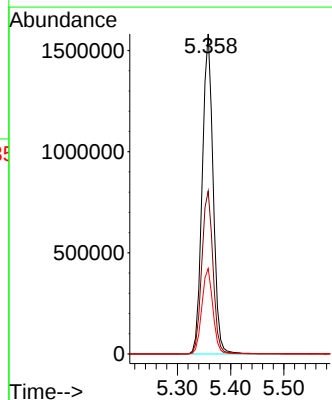
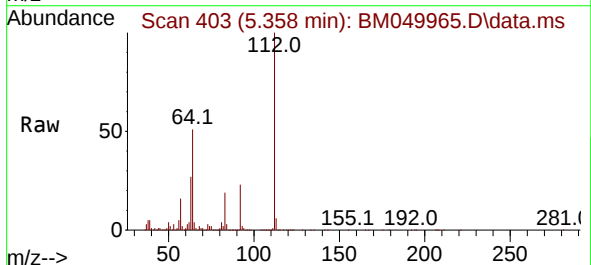
Instrument :
BNA_M
ClientSampleId :
SOIL-2

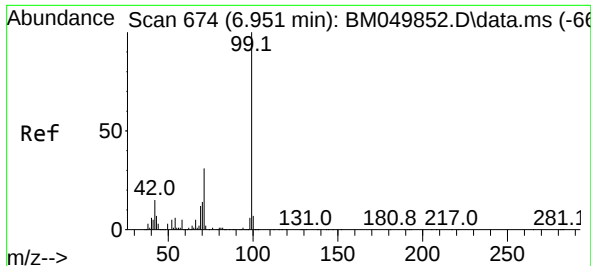
Tgt Ion:152 Resp: 513757
Ion Ratio Lower Upper
152 100
150 156.0 124.3 186.5
115 53.5 41.1 61.7



#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

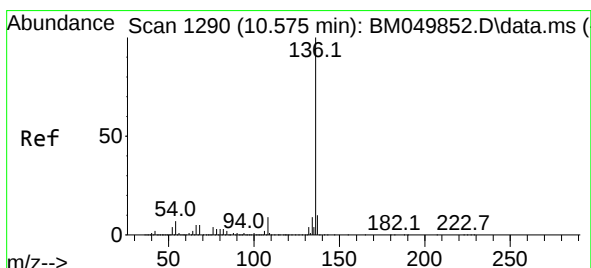
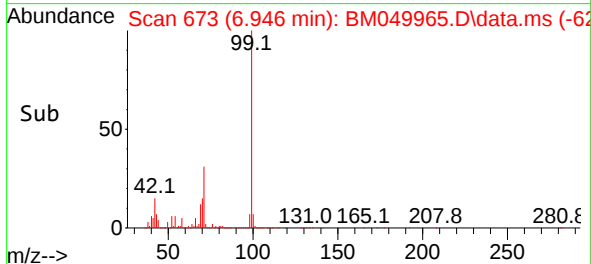
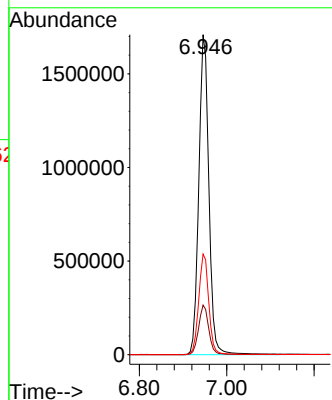
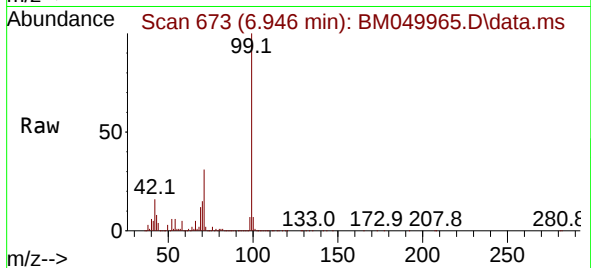




#7
Phenol-d6
Concen: 72.865 ng
RT: 6.946 min Scan# 61
Delta R.T. -0.006 min
Lab File: BM049965.D
Acq: 18 Apr 2025 14:29

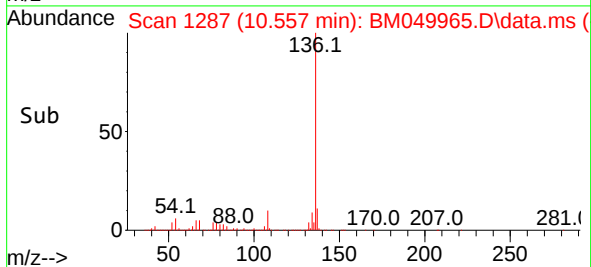
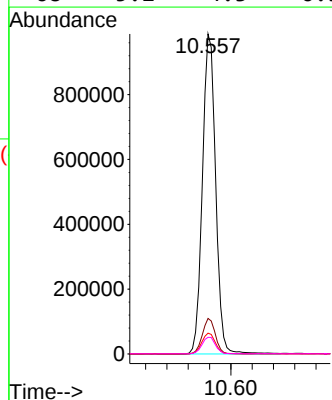
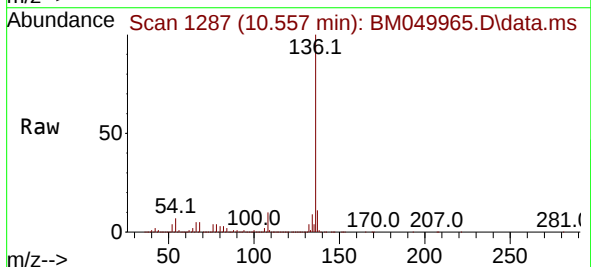
Instrument :
BNA_M
ClientSampleId :
SOIL-2

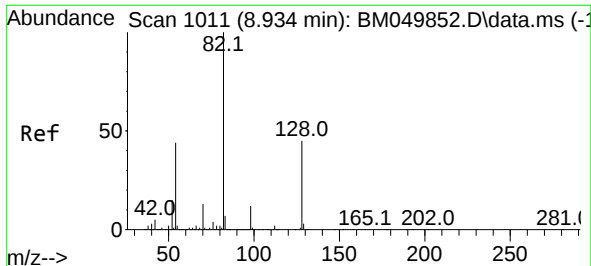
Tgt Ion: 99 Resp: 2742878
Ion Ratio Lower Upper
99 100
42 15.5 12.1 18.1
71 31.4 24.9 37.3



#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

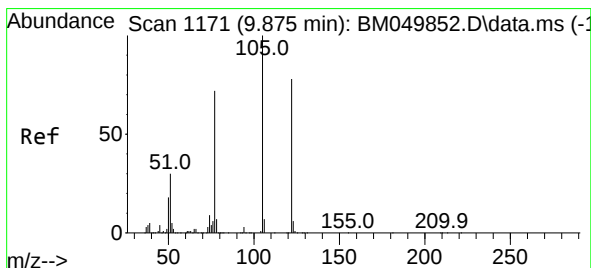
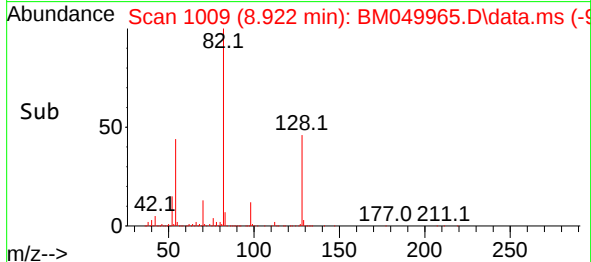
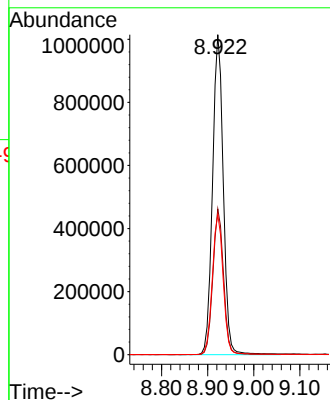
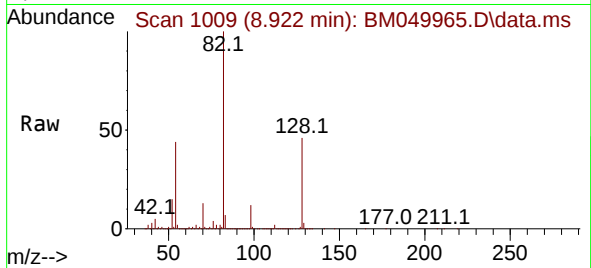




#23
Nitrobenzene-d5
Concen: 53.938 ng
RT: 8.922 min Scan# 1109
Delta R.T. -0.011 min
Lab File: BM049965.D
Acq: 18 Apr 2025 14:29

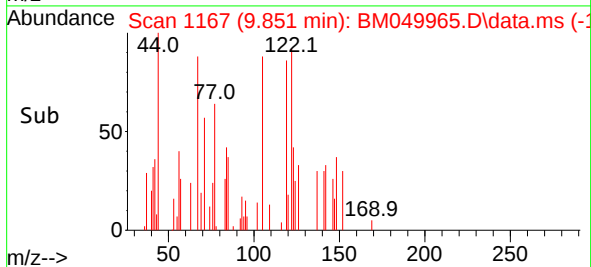
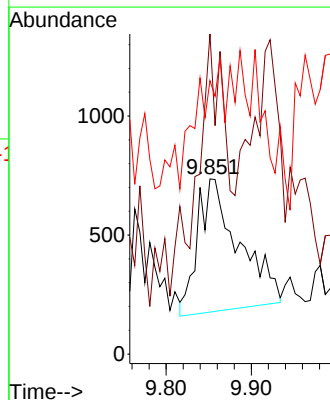
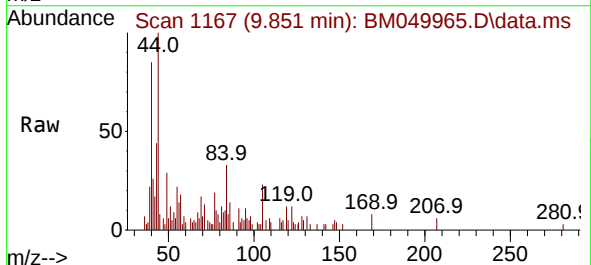
Instrument :
BNA_M
ClientSampleId :
SOIL-2

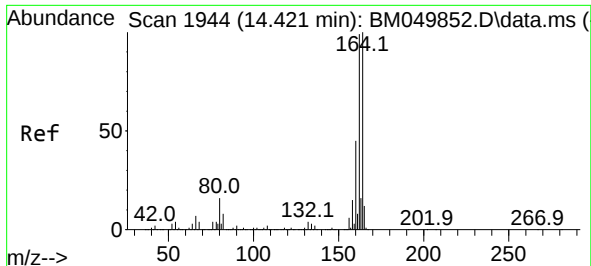
Tgt Ion: 82 Resp: 1647042
Ion Ratio Lower Upper
82 100
128 45.6 36.2 54.2
54 43.8 35.0 52.6



#32
Benzoic acid
Concen: 8.609 ng
RT: 9.851 min Scan# 1167
Delta R.T. -0.024 min
Lab File: BM049965.D
Acq: 18 Apr 2025 14:29

Tgt Ion:122 Resp: 1874
Ion Ratio Lower Upper
122 100
105 182.7 103.8 143.8#
77 156.1 70.7 110.7#

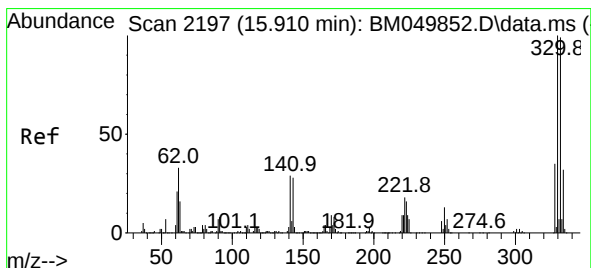
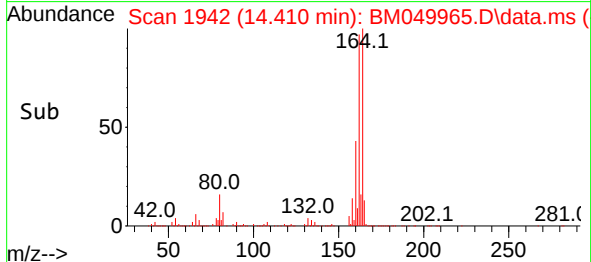
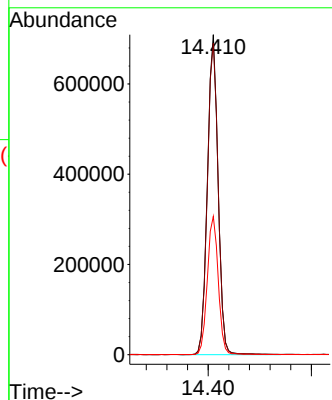
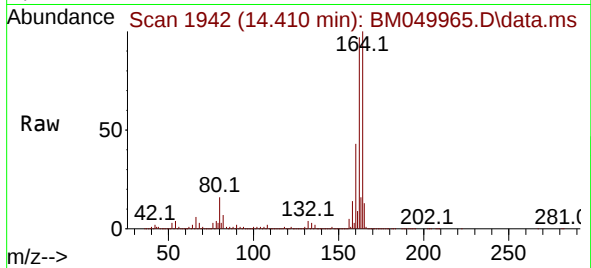




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.410 min Scan# 1942
Delta R.T. -0.011 min
Lab File: BM049965.D
Acq: 18 Apr 2025 14:29

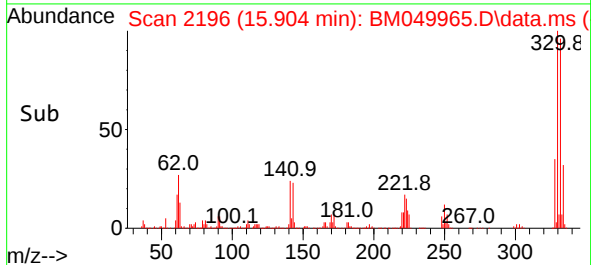
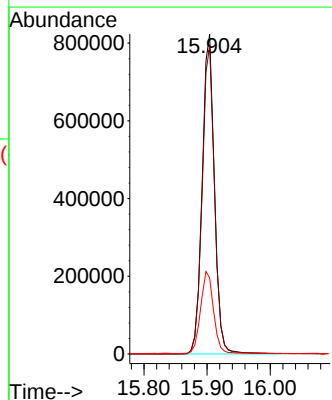
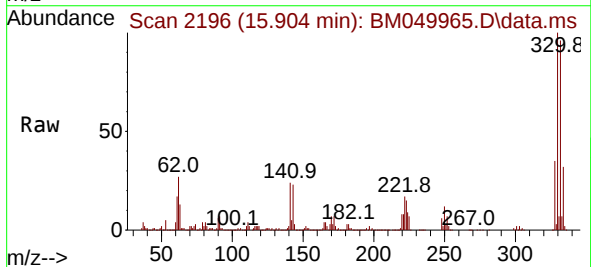
Instrument :
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ClientSampleId :
SOIL-2

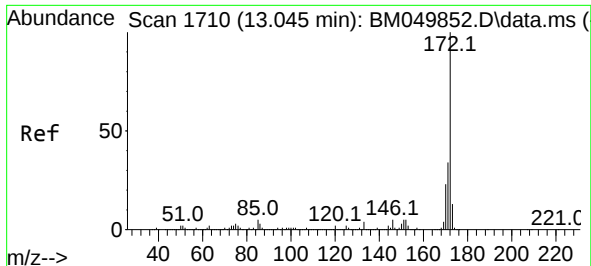
Tgt Ion:164 Resp: 1014212
Ion Ratio Lower Upper
164 100
162 97.3 79.4 119.0
160 43.2 36.2 54.2



#42
2,4,6-Tribromophenol
Concen: 75.138 ng
RT: 15.904 min Scan# 2196
Delta R.T. -0.006 min
Lab File: BM049965.D
Acq: 18 Apr 2025 14:29

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

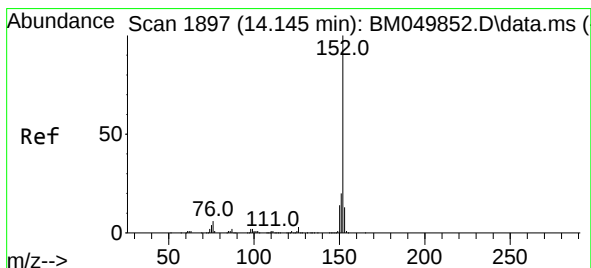
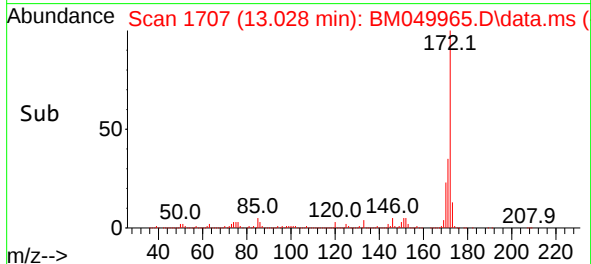
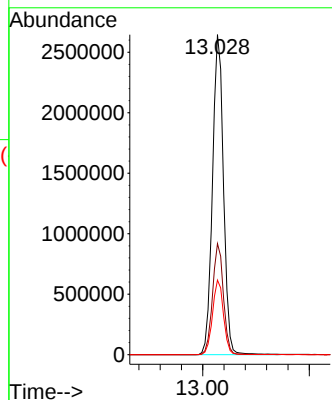
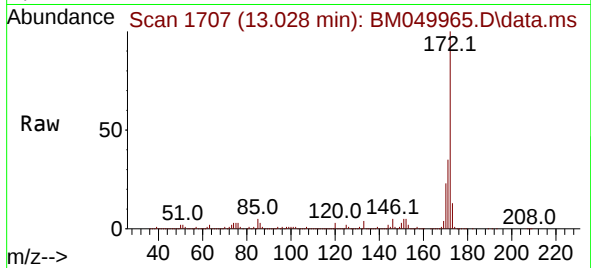




#45
2-Fluorobiphenyl
Concen: 50.707 ng
RT: 13.028 min Scan# 1710
Delta R.T. -0.017 min
Lab File: BM049965.D
Acq: 18 Apr 2025 14:29

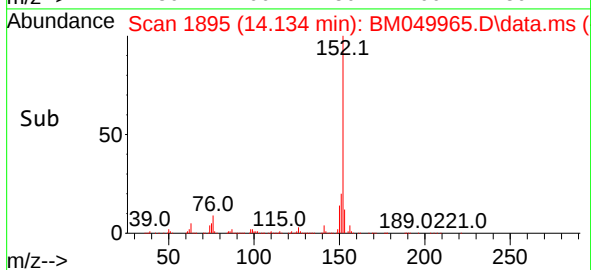
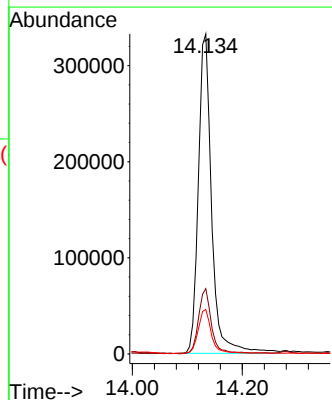
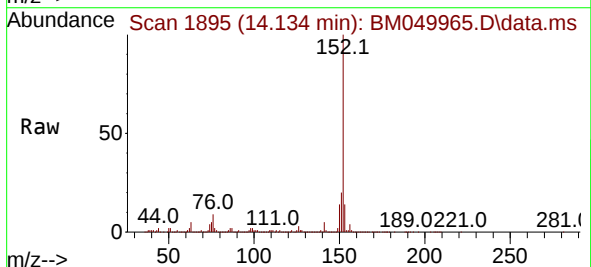
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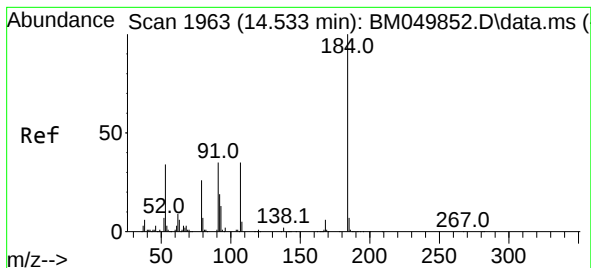
Tgt Ion:172 Resp: 3792590
Ion Ratio Lower Upper
172 100
171 34.7 27.4 41.2
170 23.3 18.6 28.0



#49
Acenaphthylene
Concen: 6.473 ng
RT: 14.134 min Scan# 1895
Delta R.T. -0.011 min
Lab File: BM049965.D
Acq: 18 Apr 2025 14:29

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

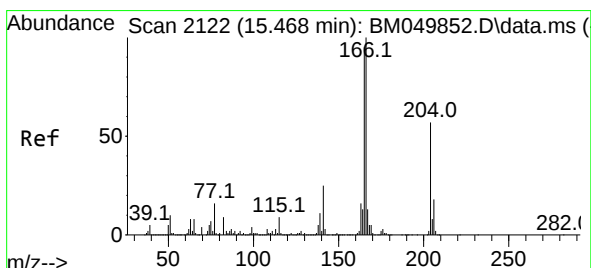
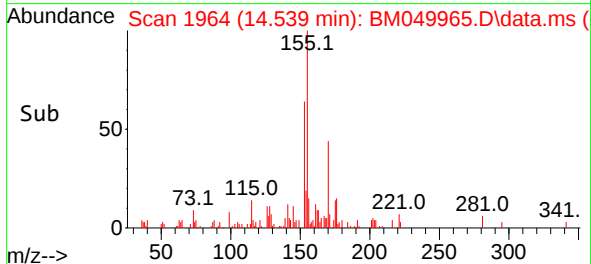
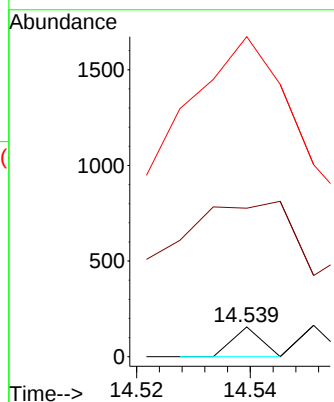
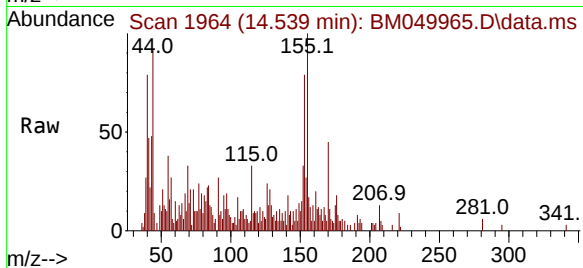




#54
2,4-Dinitrophenol
Concen: 7.229 ng
RT: 14.539 min Scan# 1963
Delta R.T. 0.006 min
Lab File: BM049965.D
Acq: 18 Apr 2025 14:29

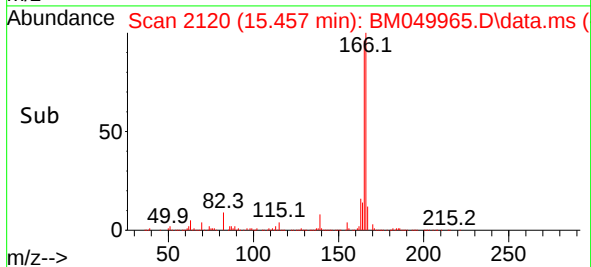
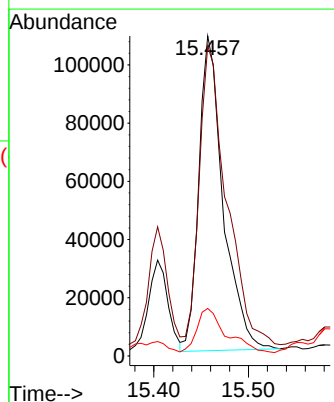
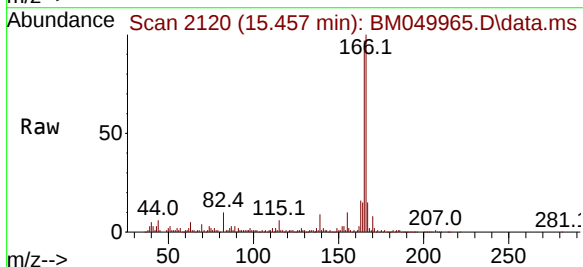
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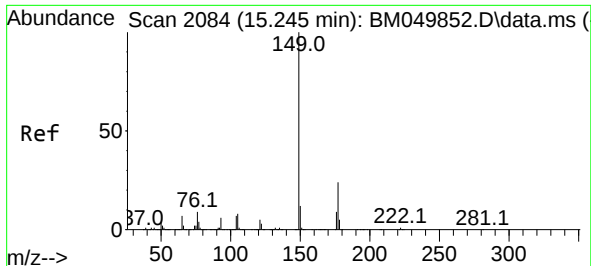
Tgt Ion:184 Resp: 55
Ion Ratio Lower Upper
184 100
63 497.4 38.4 57.6#
154 1072.4 48.1 72.1#



#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

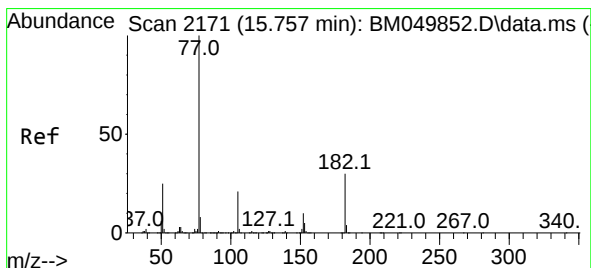
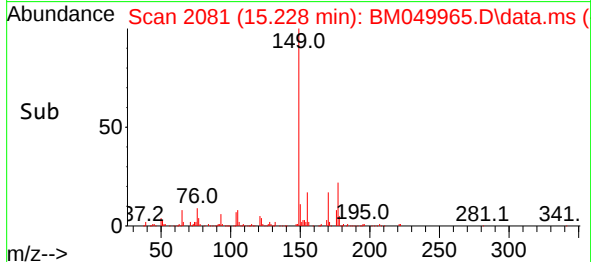
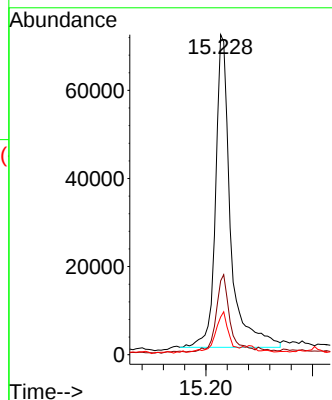
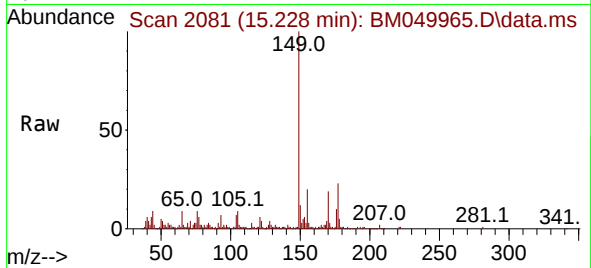




#60
Diethylphthalate
Concen: 2.016 ng
RT: 15.228 min Scan# 2081
Delta R.T. -0.017 min
Lab File: BM049965.D
Acq: 18 Apr 2025 14:29

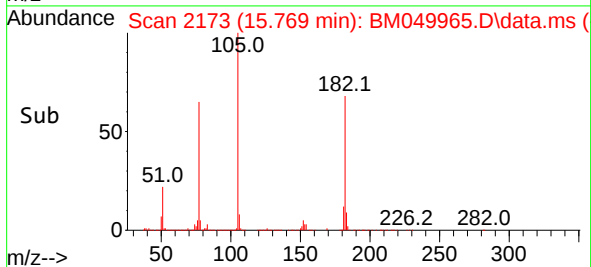
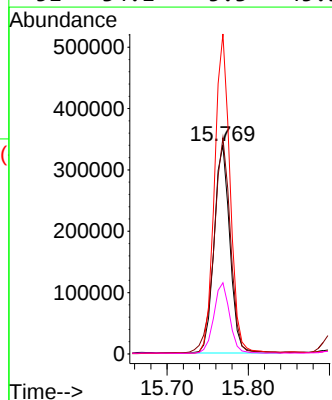
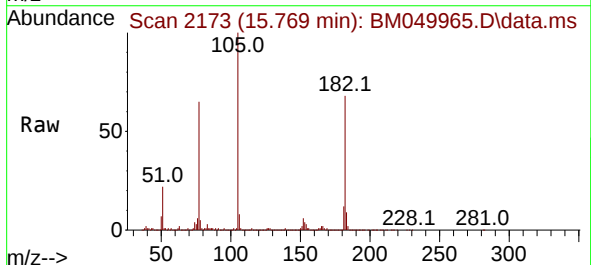
Instrument :
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ClientSampleId :
SOIL-2

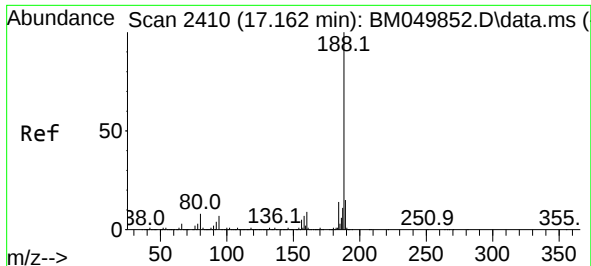
Tgt Ion:149 Resp: 138306
Ion Ratio Lower Upper
149 100
177 23.1 19.0 28.4
150 11.8 9.7 14.5



#63
Azobenzene
Concen: 7.785 ng
RT: 15.769 min Scan# 2173
Delta R.T. 0.012 min
Lab File: BM049965.D
Acq: 18 Apr 2025 14:29

Tgt Ion: 77 Resp: 457318
Ion Ratio Lower Upper
77 100
182 103.7 10.4 50.4#
105 153.4 1.5 41.5#
51 34.1 5.3 45.3

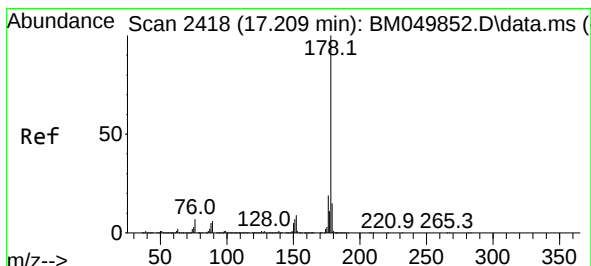
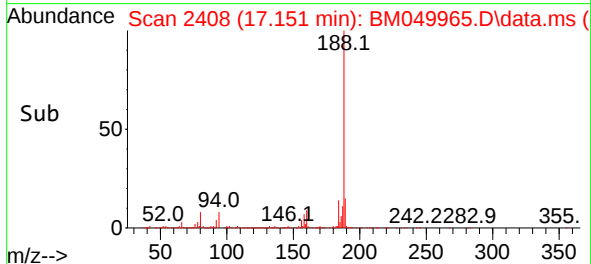
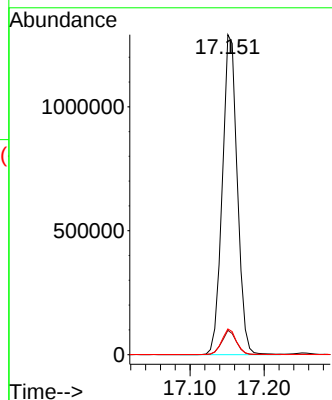
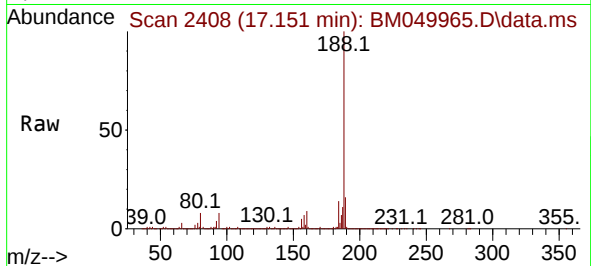




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.151 min Scan# 2410
Delta R.T. -0.011 min
Lab File: BM049965.D
Acq: 18 Apr 2025 14:29

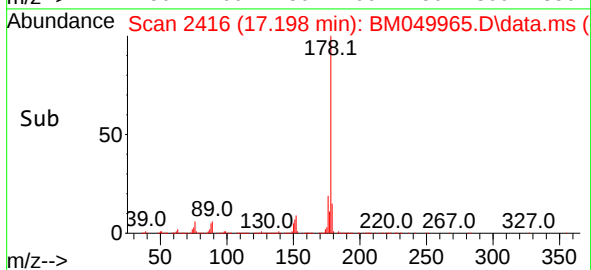
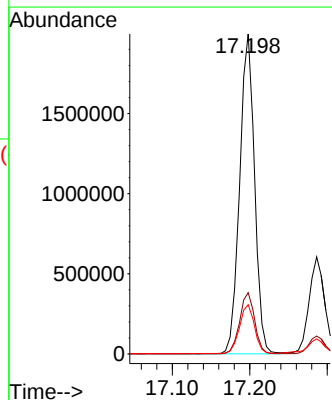
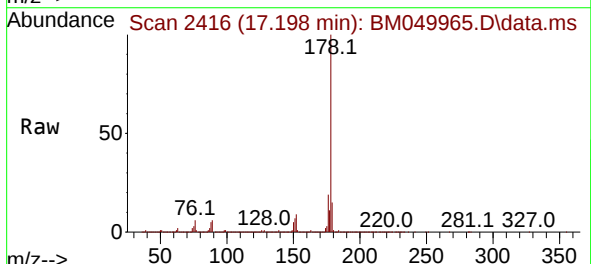
Instrument :
BNA_M
ClientSampleId :
SOIL-2

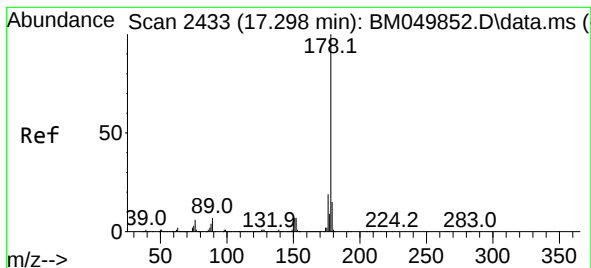
Tgt Ion:188 Resp: 1810527
Ion Ratio Lower Upper
188 100
94 7.6 5.8 8.6
80 8.0 6.4 9.6



#71
Phenanthrene
Concen: 26.914 ng
RT: 17.198 min Scan# 2416
Delta R.T. -0.011 min
Lab File: BM049965.D
Acq: 18 Apr 2025 14:29

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# 2433

Delta R.T. -0.011 min

Lab File: BM049965.D

Acq: 18 Apr 2025 14:29

Instrument :

BNA_M

ClientSampleId :

SOIL-2

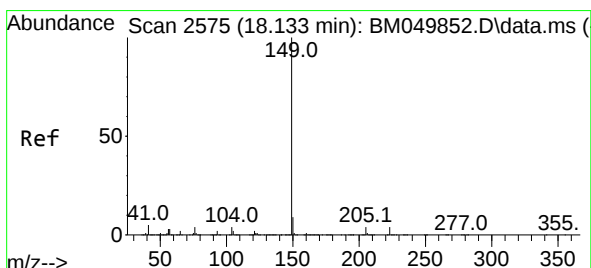
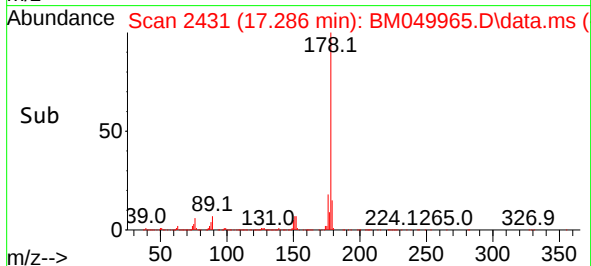
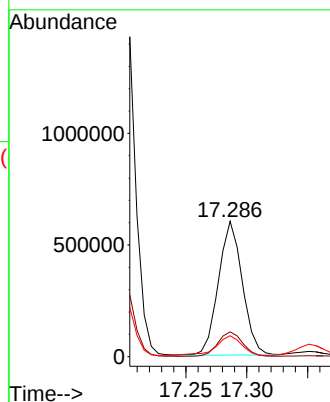
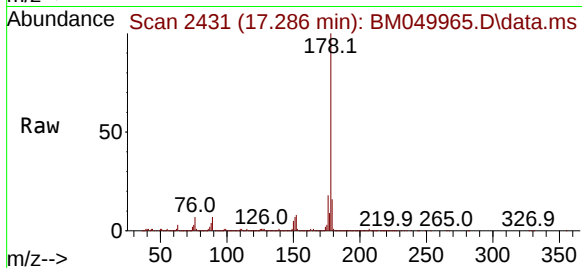
Tgt Ion:178 Resp: 819339

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# 2573

Delta R.T. -0.011 min

Lab File: BM049965.D

Acq: 18 Apr 2025 14:29

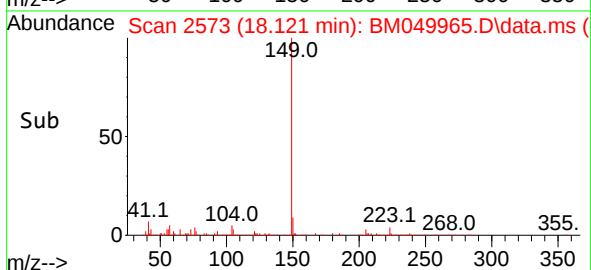
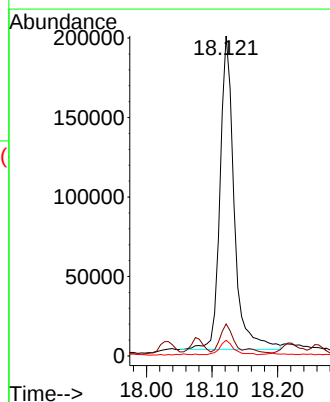
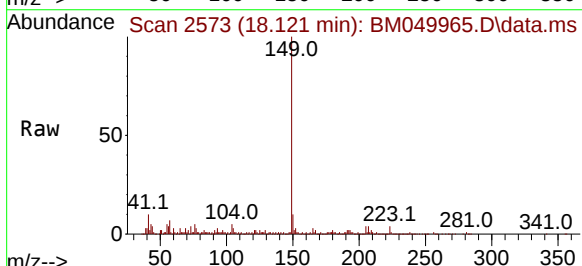
Tgt Ion:149 Resp: 294719

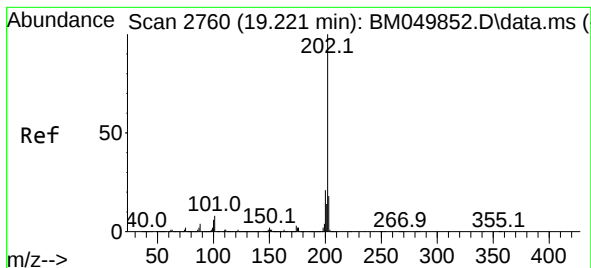
Ion Ratio Lower Upper

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# 21

Delta R.T. -0.006 min

Lab File: BM049965.D

Acq: 18 Apr 2025 14:29

Instrument :

BNA_M

ClientSampleId :

SOIL-2

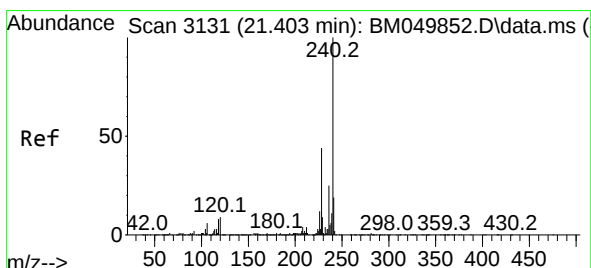
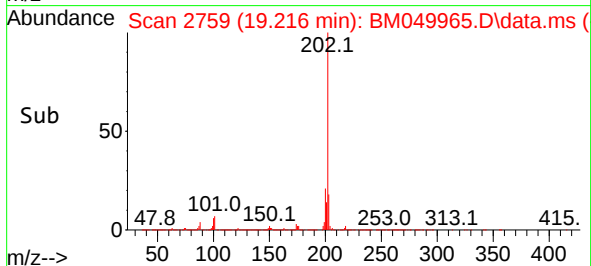
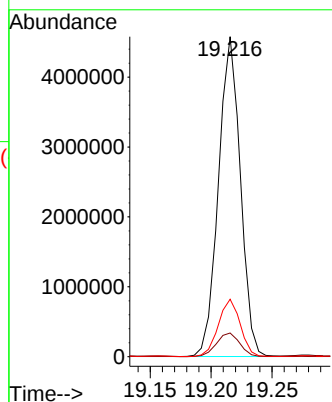
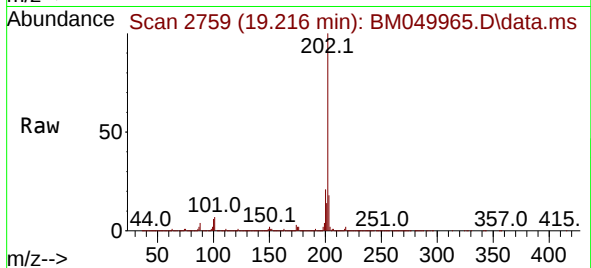
Tgt Ion:202 Resp: 5732699

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# 3129

Delta R.T. -0.011 min

Lab File: BM049965.D

Acq: 18 Apr 2025 14:29

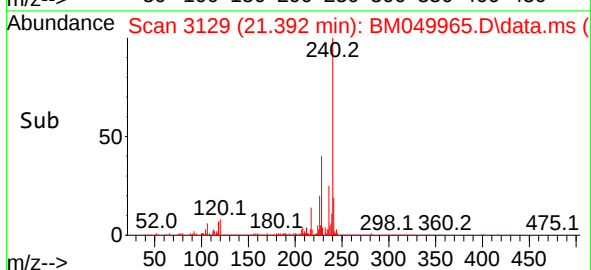
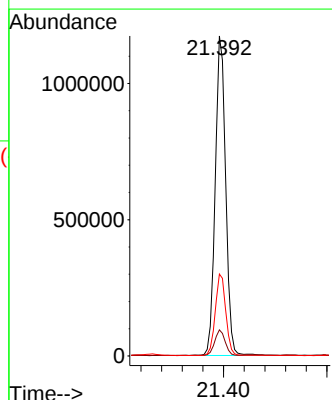
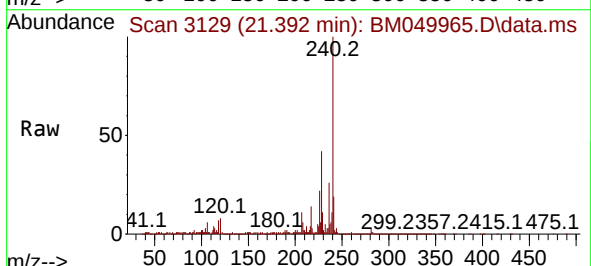
Tgt Ion:240 Resp: 1642672

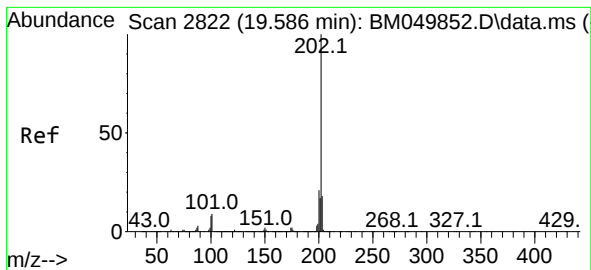
Ion Ratio Lower Upper

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# 2822

Delta R.T. -0.006 min

Lab File: BM049965.D

Acq: 18 Apr 2025 14:29

Instrument :

BNA_M

ClientSampleId :

SOIL-2

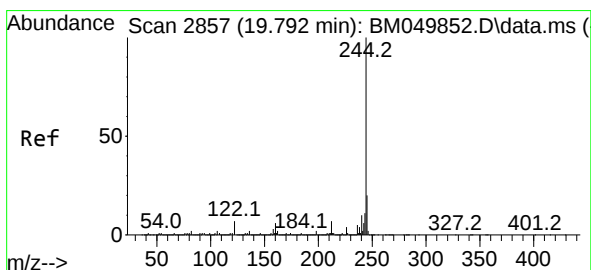
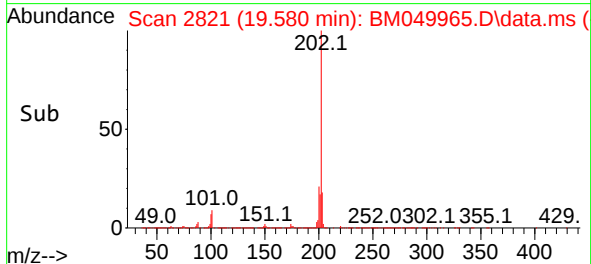
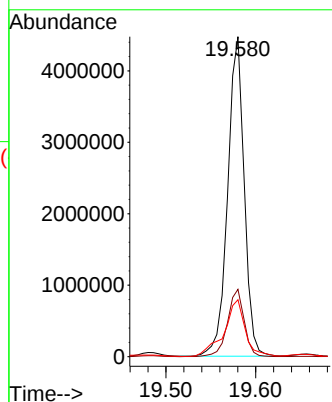
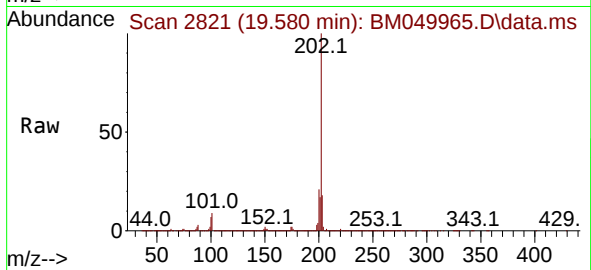
Tgt Ion:202 Resp: 5737575

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# 2855

Delta R.T. -0.011 min

Lab File: BM049965.D

Acq: 18 Apr 2025 14:29

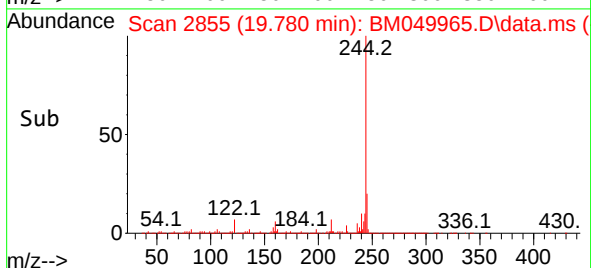
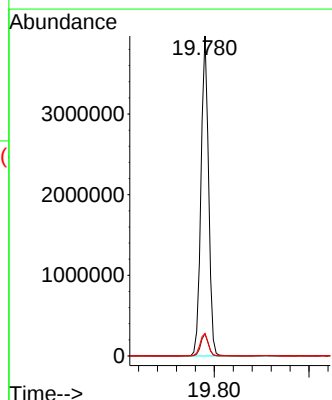
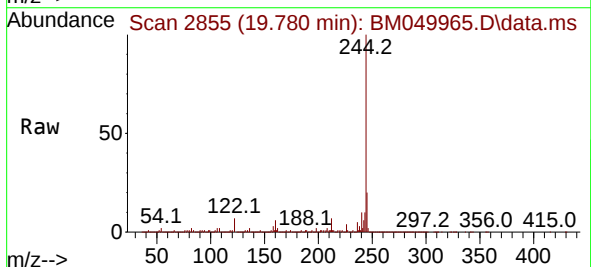
Tgt Ion:244 Resp: 4388566

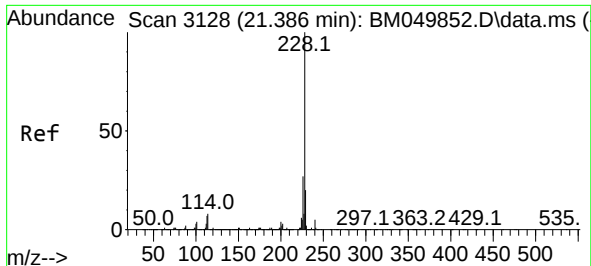
Ion Ratio Lower Upper

244 100

212 6.9 5.5 8.3

122 7.0 5.4 8.0

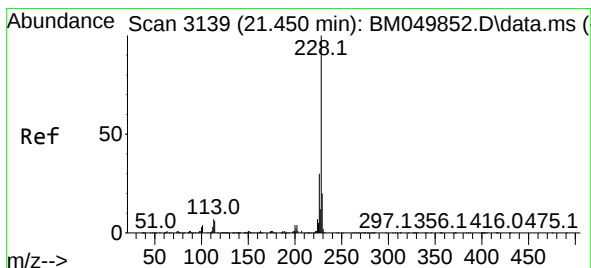
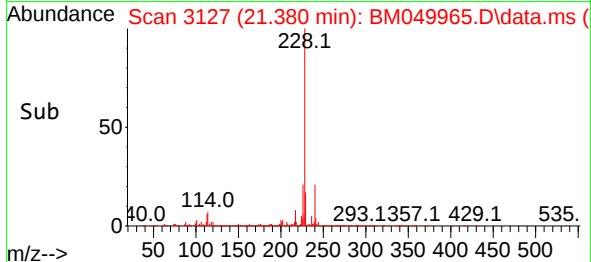
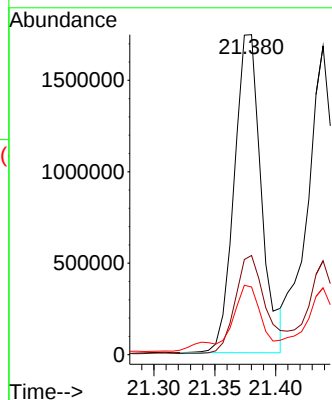
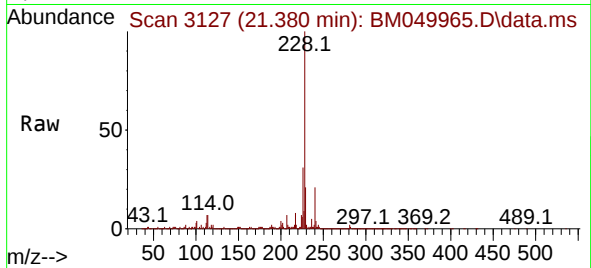




#81
Benzo(a)anthracene
Concen: 24.637 ng
RT: 21.380 min Scan# 3128
Delta R.T. -0.006 min
Lab File: BM049965.D
Acq: 18 Apr 2025 14:29

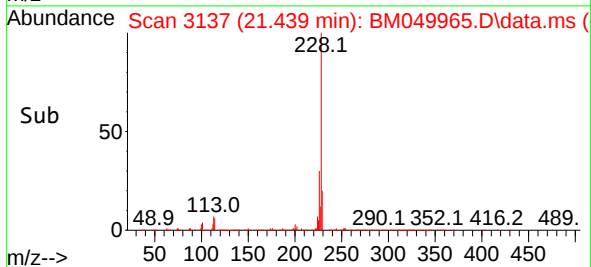
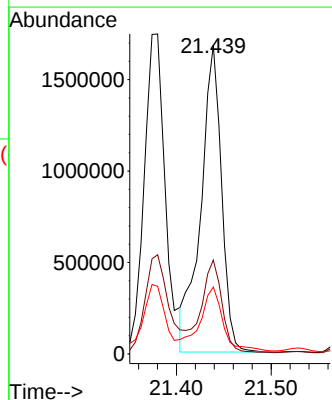
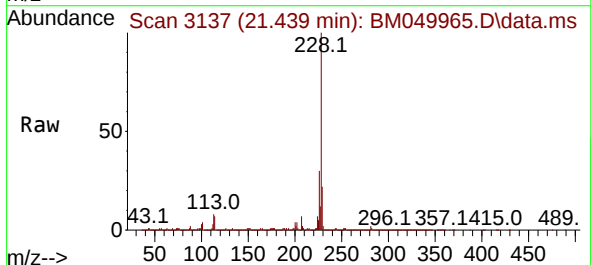
Instrument :
BNA_M
ClientSampleId :
SOIL-2

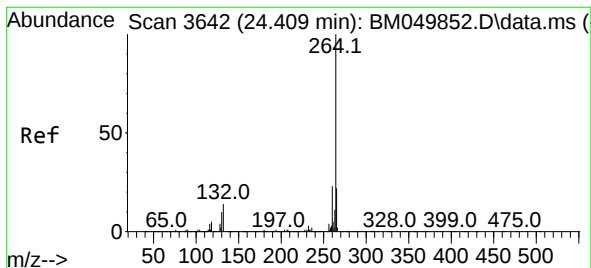
Tgt Ion:228 Resp: 2689621
Ion Ratio Lower Upper
228 100
226 31.0 21.8 32.8
229 21.2 15.8 23.8



#83
Chrysene
Concen: 24.628 ng
RT: 21.439 min Scan# 3137
Delta R.T. -0.011 min
Lab File: BM049965.D
Acq: 18 Apr 2025 14:29

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# 30

Delta R.T. -0.017 min

Lab File: BM049965.D

Acq: 18 Apr 2025 14:29

Instrument :

BNA_M

ClientSampleId :

SOIL-2

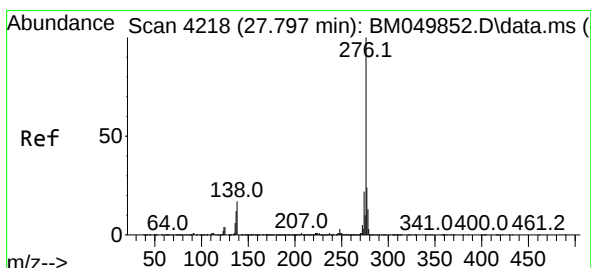
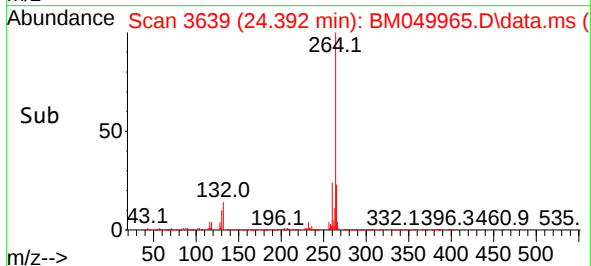
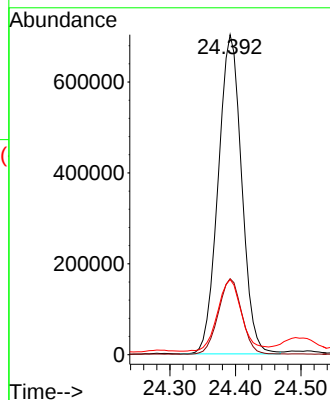
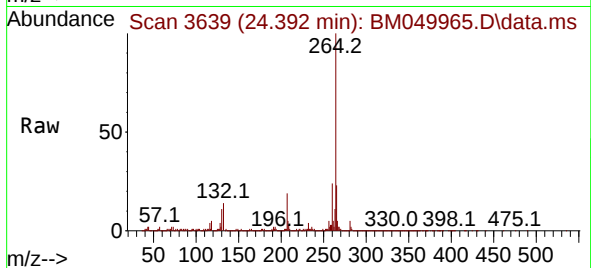
Tgt Ion:264 Resp: 1743343

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# 4214

Delta R.T. -0.023 min

Lab File: BM049965.D

Acq: 18 Apr 2025 14:29

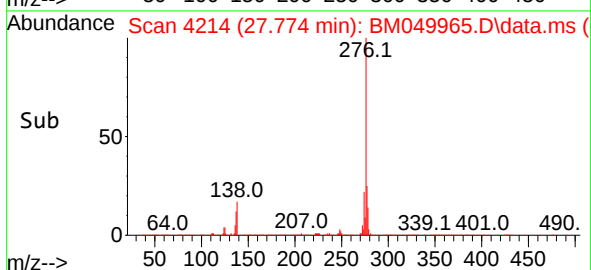
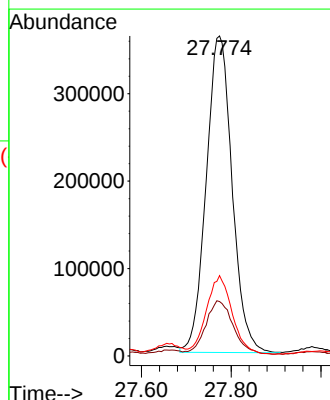
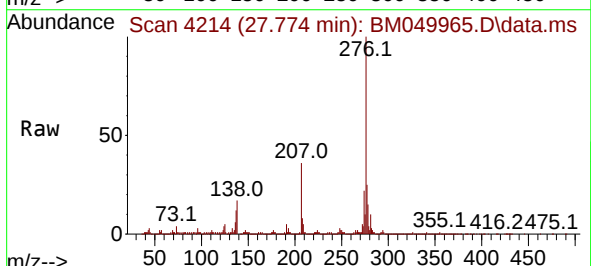
Tgt Ion:276 Resp: 1454049

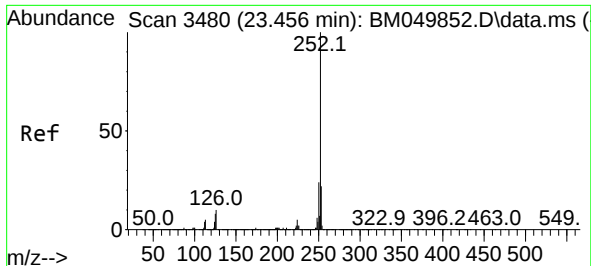
Ion Ratio Lower Upper

276 100

138 17.8 16.8 25.2

277 24.6 20.1 30.1

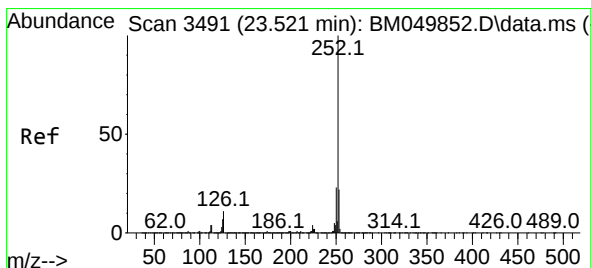
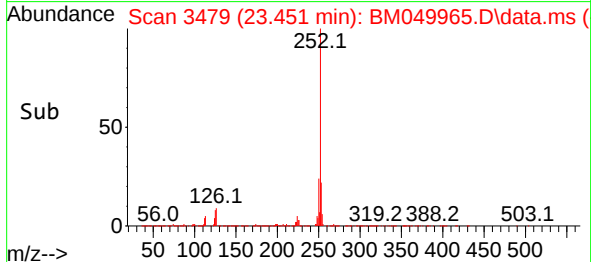
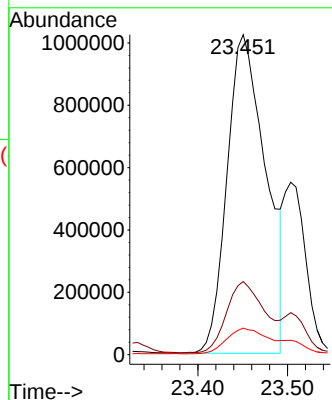
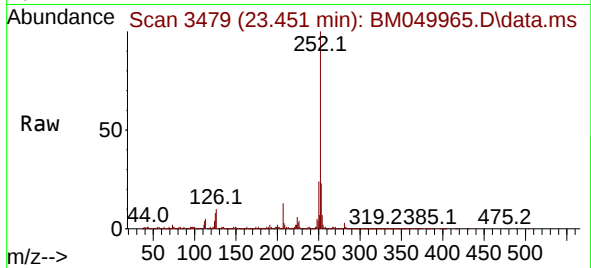




#88
Benzo(b)fluoranthene
Concen: 27.544 ng
RT: 23.451 min Scan# 3479
Delta R.T. -0.006 min
Lab File: BM049965.D
Acq: 18 Apr 2025 14:29

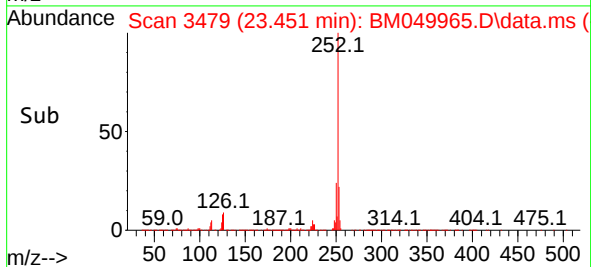
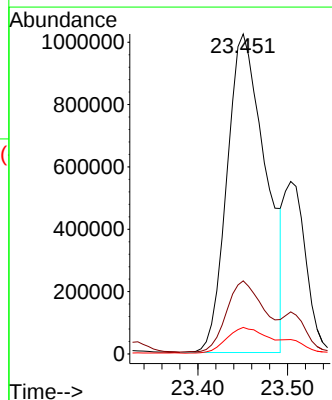
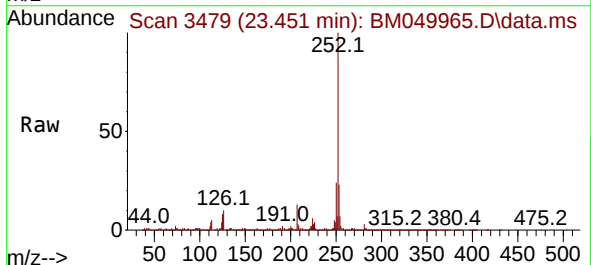
Instrument :
BNA_M
ClientSampleId :
SOIL-2

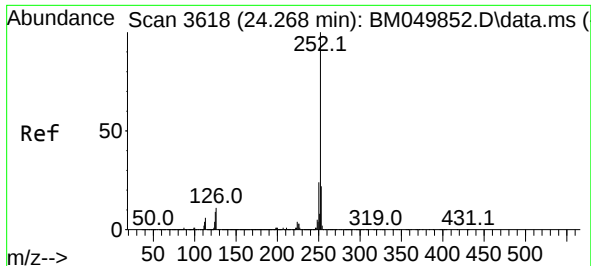
Tgt Ion:252 Resp: 3066782
Ion Ratio Lower Upper
252 100
253 22.8 17.5 26.3
125 8.3 6.2 9.4



#89
Benzo(k)fluoranthene
Concen: 28.423 ng
RT: 23.451 min Scan# 3479
Delta R.T. -0.070 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 17.4 26.2
125 8.3 5.8 8.8

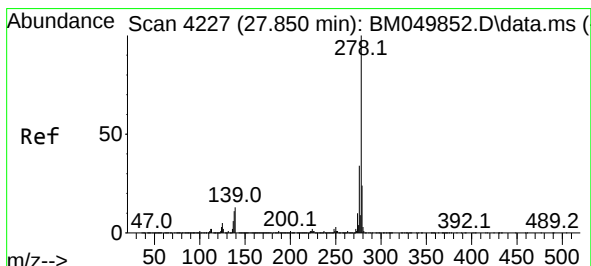
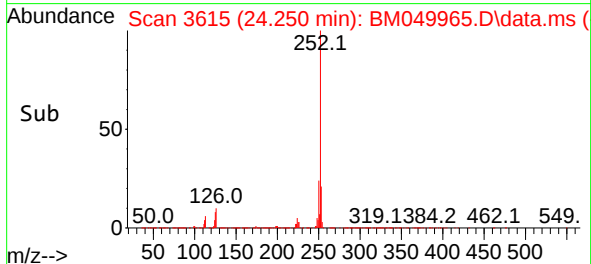
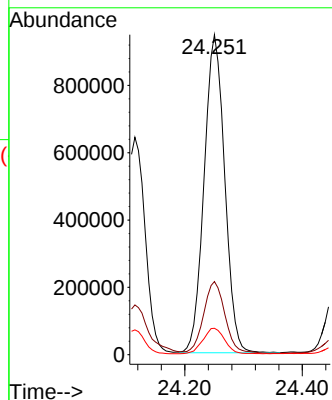
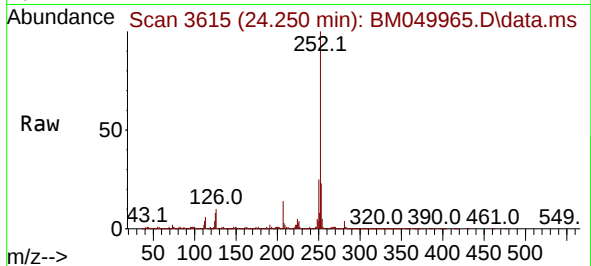




#90
Benzo(a)pyrene
Concen: 23.453 ng
RT: 24.250 min Scan# 30
Delta R.T. -0.017 min
Lab File: BM049965.D
Acq: 18 Apr 2025 14:29

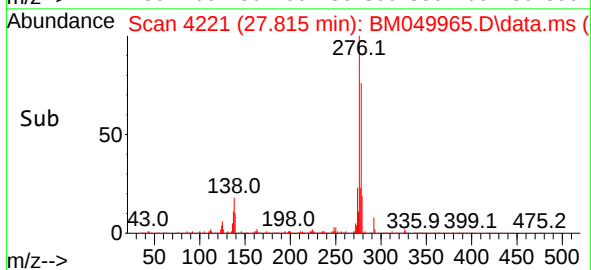
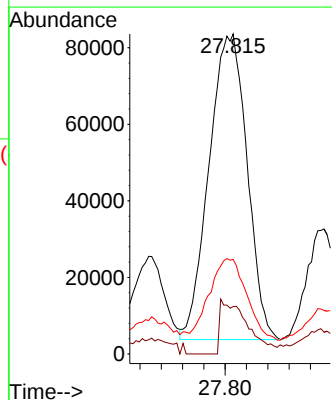
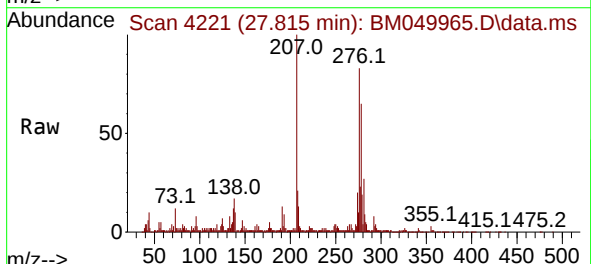
Instrument :
BNA_M
ClientSampleId :
SOIL-2

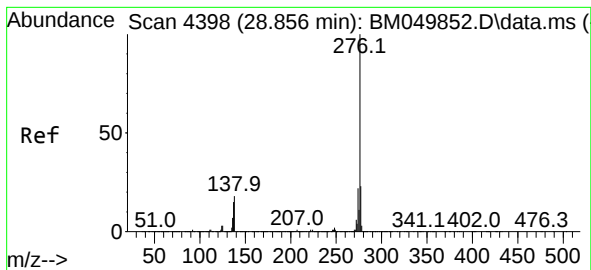
Tgt Ion:252 Resp: 2294617
Ion Ratio Lower Upper
252 100
253 22.9 17.8 26.8
125 8.3 7.0 10.4



#91
Dibenzo(a,h)anthracene
Concen: 3.695 ng
RT: 27.815 min Scan# 4221
Delta R.T. -0.035 min
Lab File: BM049965.D
Acq: 18 Apr 2025 14:29

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# 41
 Delta R.T. -0.029 min
 Lab File: BM049965.D
 Acq: 18 Apr 2025 14:29

Instrument :
 BNA_M
 ClientSampleId :
 SOIL-2

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

