

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041825\
 Data File : BM049968.D
 Acq On : 18 Apr 2025 16:27
 Operator : RC/JU
 Sample : Q1830-01
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SOIL-1

Quant Time: Apr 18 17:14:09 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)

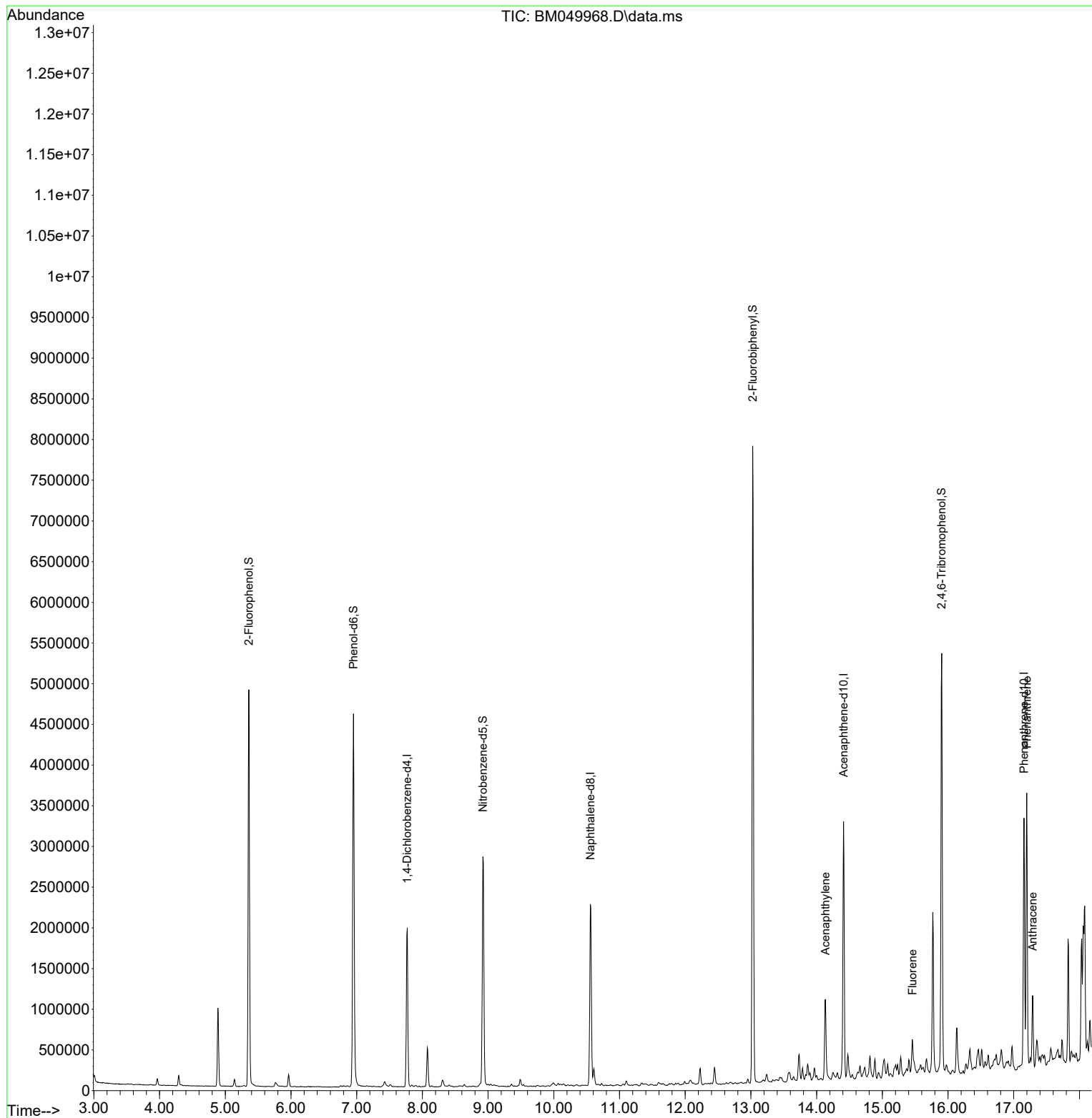
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.769	152	575372	20.000	ng	-0.01
21) Naphthalene-d8	10.557	136	1927182	20.000	ng	-0.02
39) Acenaphthene-d10	14.410	164	1122933	20.000	ng	-0.01
64) Phenanthrene-d10	17.157	188	1835696	20.000	ng	0.00
76) Chrysene-d12	21.392	240	1557172	20.000	ng	-0.01
86) Perylene-d12	24.397	264	1661753	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.357	112	2203698	65.037	ng	0.00
7) Phenol-d6	6.951	99	2765541	65.600	ng	0.00
23) Nitrobenzene-d5	8.922	82	1677529	48.472	ng	-0.01
42) 2,4,6-Tribromophenol	15.904	330	1089159	66.683	ng	0.00
45) 2-Fluorobiphenyl	13.027	172	4321077	52.180	ng	-0.02
79) Terphenyl-d14	19.780	244	4450674	53.564	ng	-0.01
Target Compounds						Qvalue
49) Acenaphthylene	14.133	152	794778	8.316	ng	99
58) Fluorene	15.457	166	222890	2.759	ng	97
71) Phenanthrene	17.198	178	2053143	20.401	ng	100
72) Anthracene	17.286	178	580302	5.851	ng	99
75) Fluoranthene	19.215	202	3487486	28.184	ng	99
78) Pyrene	19.580	202	4160682	38.770	ng	99
81) Benzo(a)anthracene	21.374	228	1807836	17.469	ng	94
83) Chrysene	21.439	228	2052953m	20.866	ng	
87) Indeno(1,2,3-cd)pyrene	27.779	276	1145542	9.248	ng	97
88) Benzo(b)fluoranthene	23.450	252	2273046	21.418	ng	97
89) Benzo(k)fluoranthene	23.509	252	763206m	7.421	ng	
90) Benzo(a)pyrene	24.256	252	1810307	19.411	ng	99
91) Dibenzo(a,h)anthracene	27.815	278	329870	3.233	ng	# 86
92) Benzo(g,h,i)perylene	28.844	276	1239027	11.884	ng	99

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

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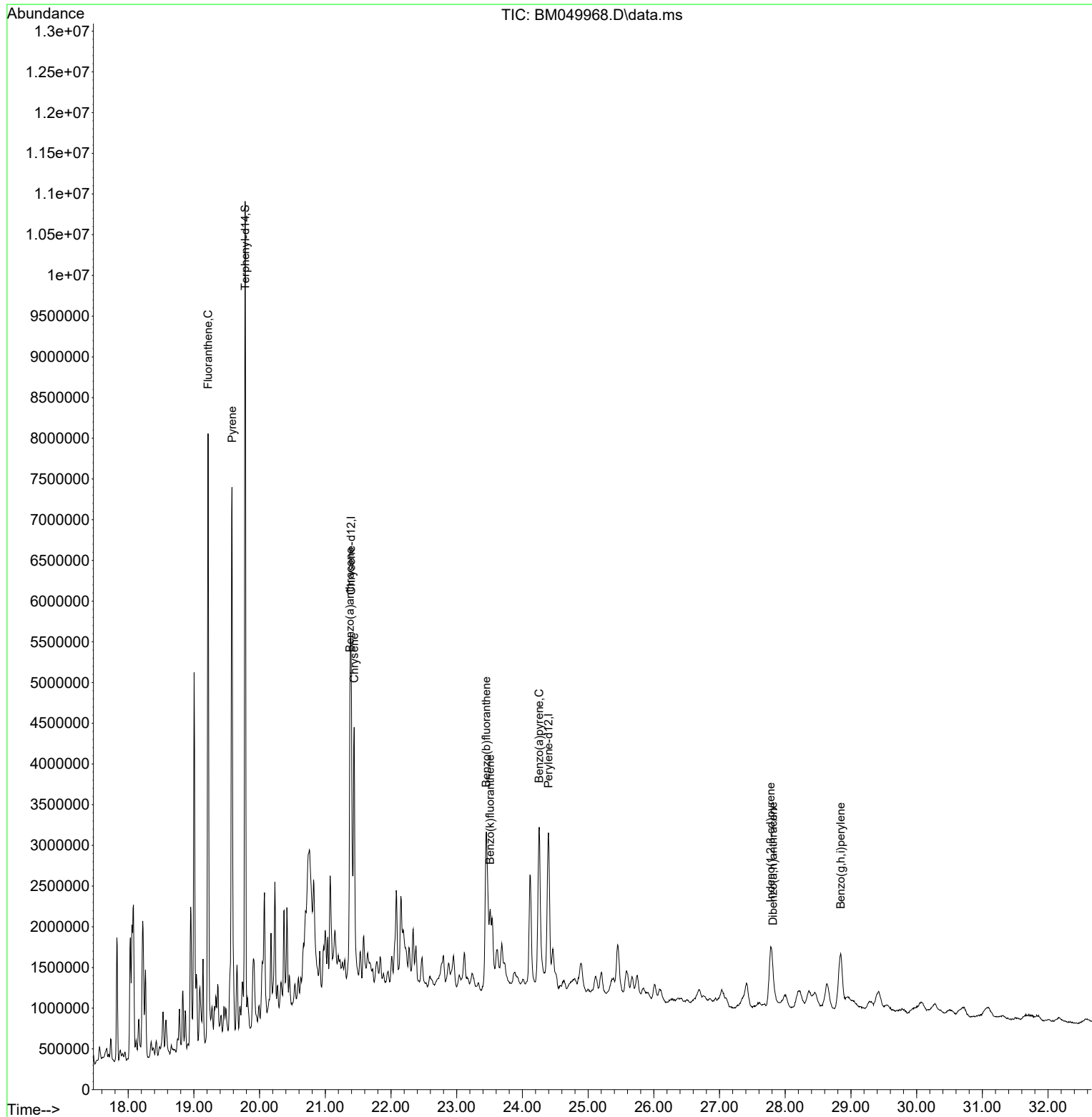
Quant Time: Apr 18 17:14:09 2025
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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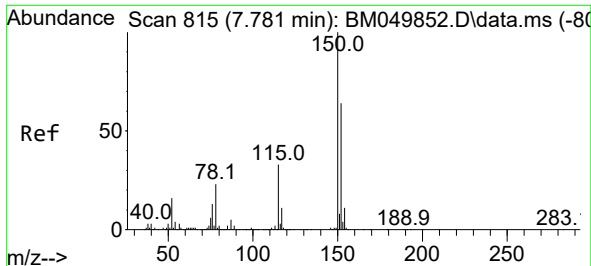


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041825\
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QLast Update : Wed Apr 09 04:00:55 2025
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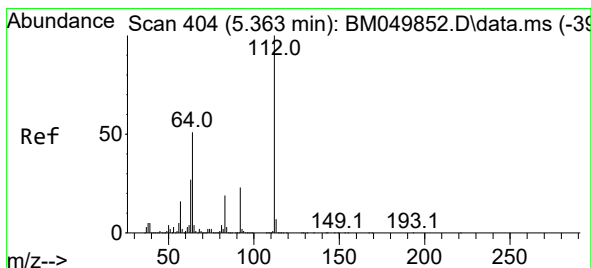
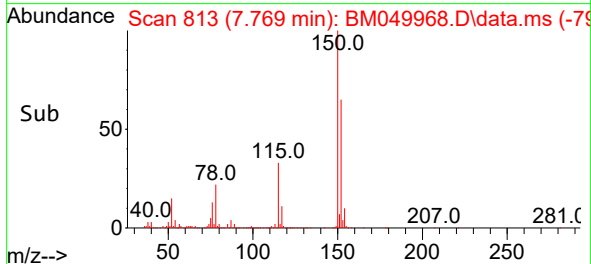
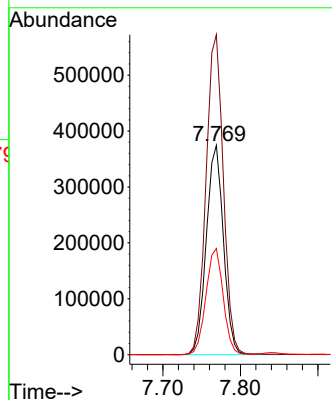
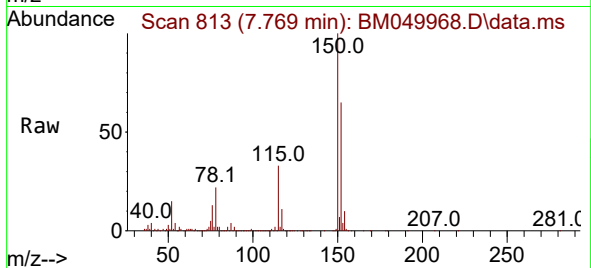




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.769 min Scan# 815
Delta R.T. -0.012 min
Lab File: BM049968.D
Acq: 18 Apr 2025 16:27

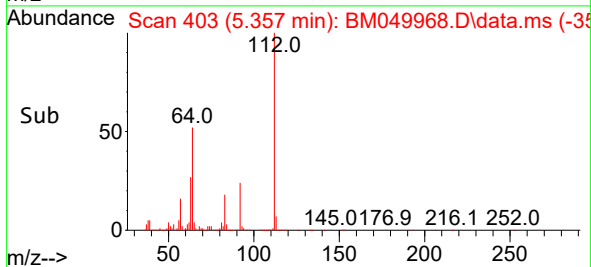
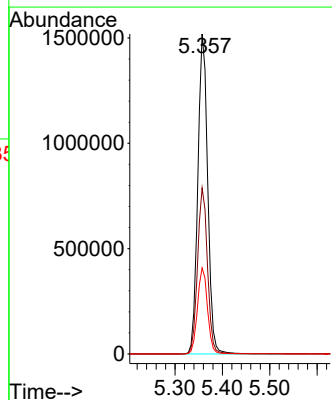
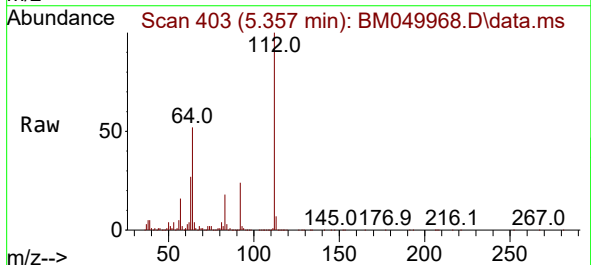
Instrument :
BNA_M
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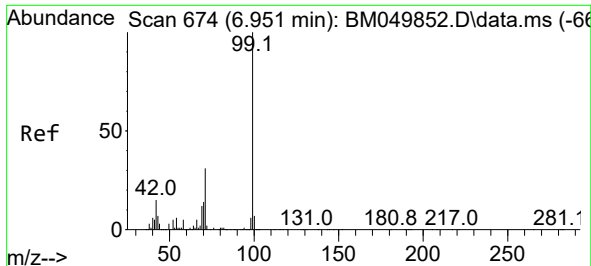
Tgt Ion:152 Resp: 575372
Ion Ratio Lower Upper
152 100
150 152.9 124.3 186.5
115 50.8 41.1 61.7



#5
2-Fluorophenol
Concen: 65.037 ng
RT: 5.357 min Scan# 403
Delta R.T. -0.006 min
Lab File: BM049968.D
Acq: 18 Apr 2025 16:27

Tgt Ion:112 Resp: 2203698
Ion Ratio Lower Upper
112 100
64 51.9 41.0 61.6
63 26.9 21.5 32.3

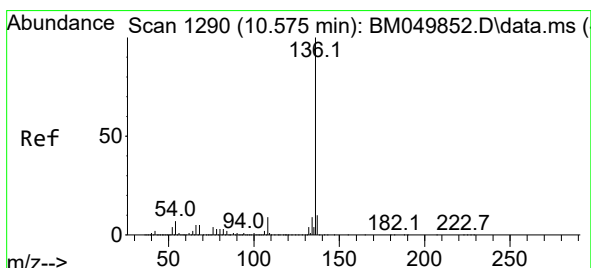
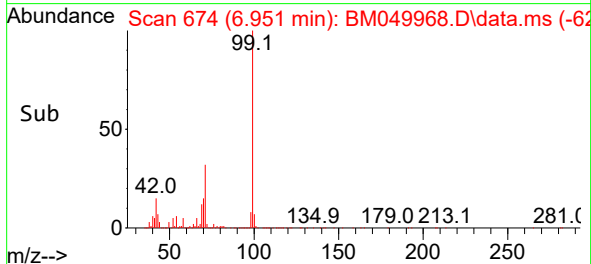
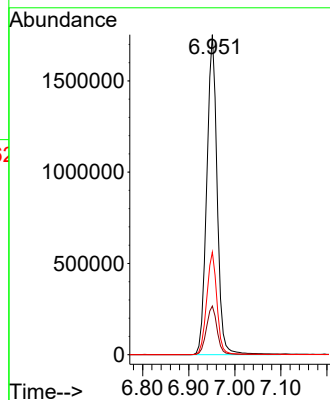
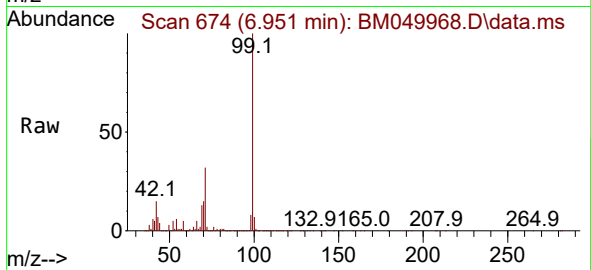




#7
Phenol-d6
Concen: 65.600 ng
RT: 6.951 min Scan# 61
Delta R.T. 0.000 min
Lab File: BM049968.D
Acq: 18 Apr 2025 16:27

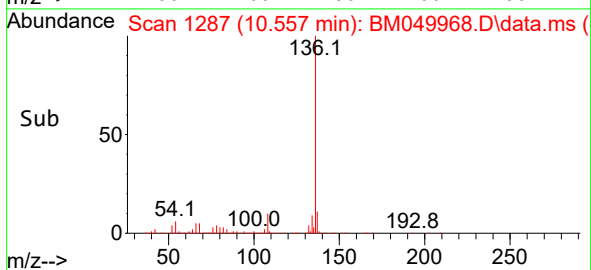
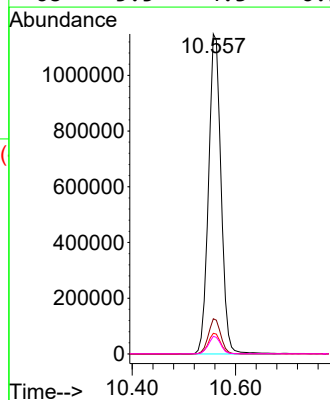
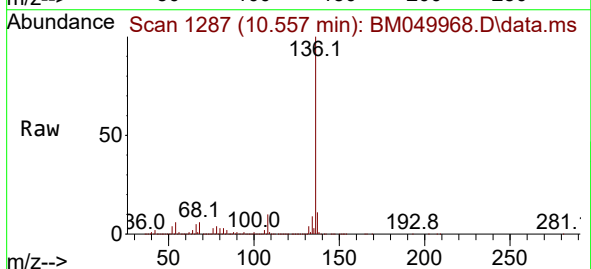
Instrument :
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ClientSampleId :
SOIL-1

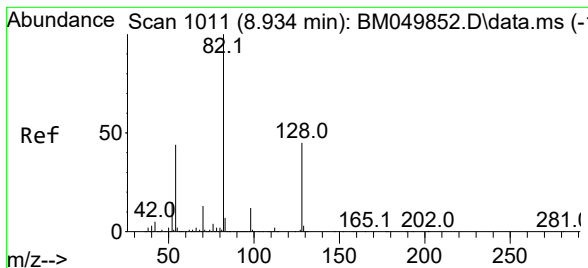
Tgt Ion: 99 Resp: 2765541
Ion Ratio Lower Upper
99 100
42 15.2 12.1 18.1
71 32.0 24.9 37.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.557 min Scan# 1287
Delta R.T. -0.018 min
Lab File: BM049968.D
Acq: 18 Apr 2025 16:27

Tgt Ion: 136 Resp: 1927182
Ion Ratio Lower Upper
136 100
137 11.0 8.4 12.6
54 6.5 5.3 7.9
68 5.5 4.3 6.5

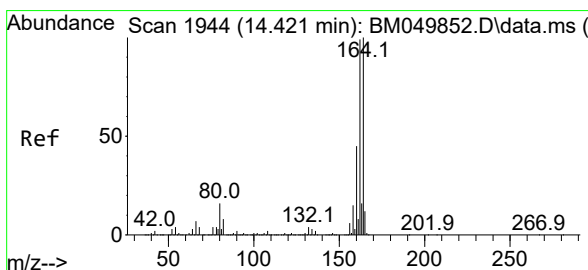
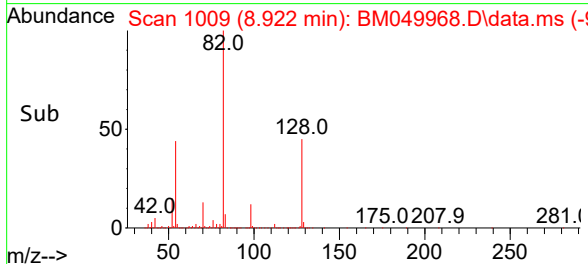
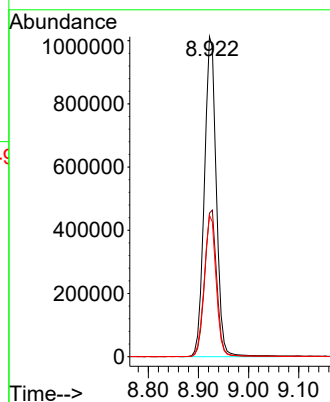
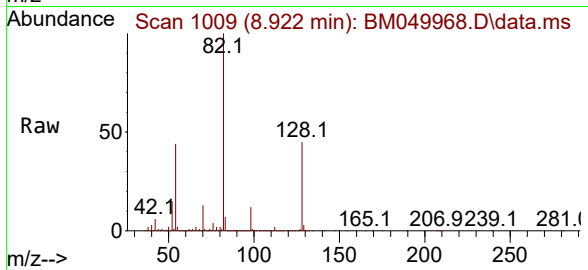




#23
Nitrobenzene-d5
Concen: 48.472 ng
RT: 8.922 min Scan# 1009
Delta R.T. -0.012 min
Lab File: BM049968.D
Acq: 18 Apr 2025 16:27

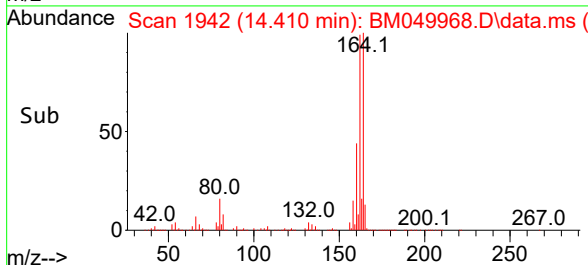
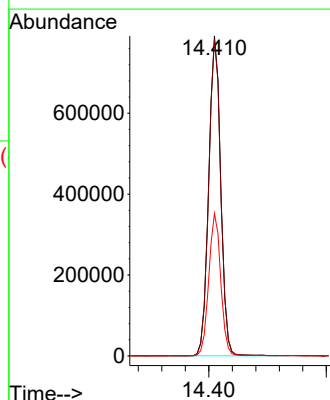
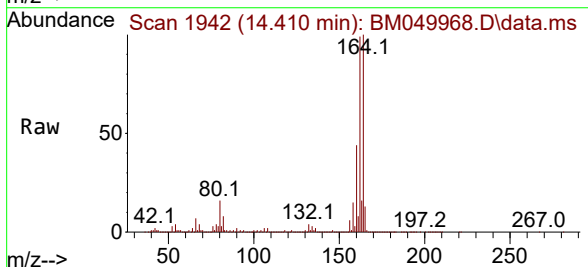
Instrument :
BNA_M
ClientSampleId :
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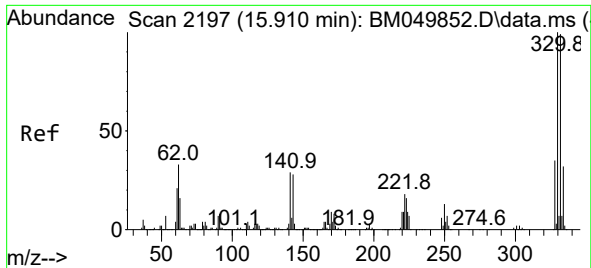
Tgt Ion: 82 Resp: 1677529
Ion Ratio Lower Upper
82 100
128 44.8 36.2 54.2
54 44.2 35.0 52.6



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.410 min Scan# 1942
Delta R.T. -0.012 min
Lab File: BM049968.D
Acq: 18 Apr 2025 16:27

Tgt Ion:164 Resp: 1122933
Ion Ratio Lower Upper
164 100
162 98.9 79.4 119.0
160 44.5 36.2 54.2

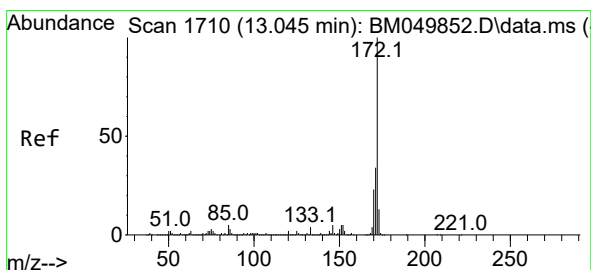
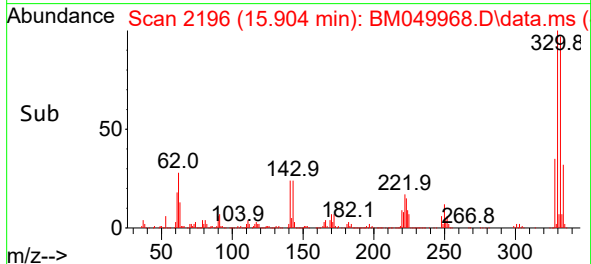
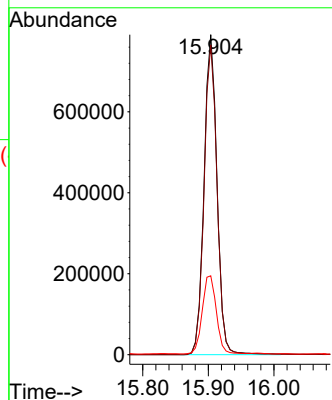
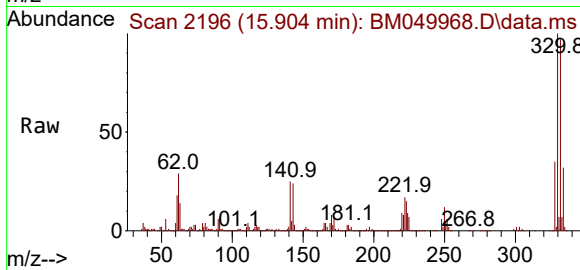




#42
2,4,6-Tribromophenol
Concen: 66.683 ng
RT: 15.904 min Scan# 2197
Delta R.T. -0.006 min
Lab File: BM049968.D
Acq: 18 Apr 2025 16:27

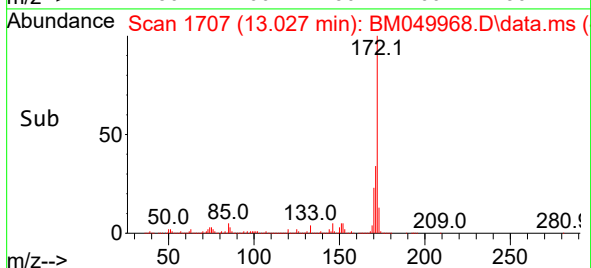
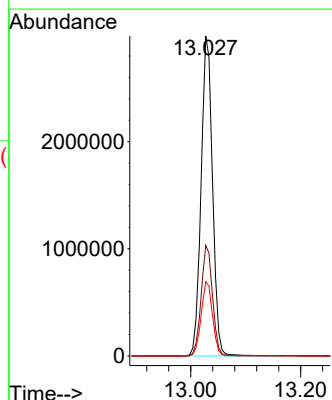
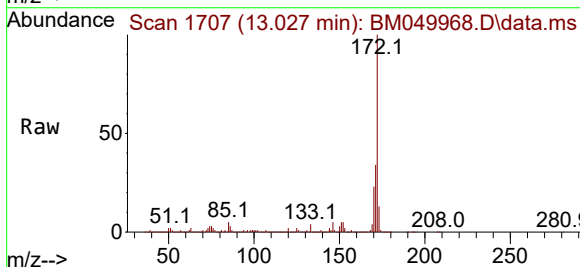
Instrument :
BNA_M
ClientSampleId :
SOIL-1

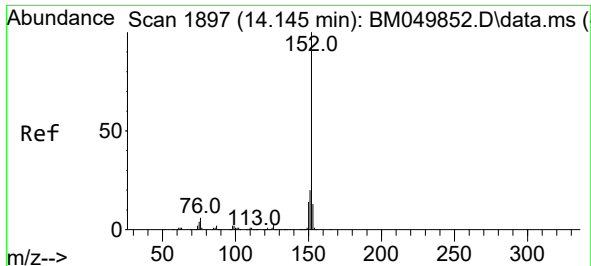
Tgt Ion:330 Resp: 1089159
Ion Ratio Lower Upper
330 100
332 97.4 78.0 117.0
141 26.4 23.5 35.3



#45
2-Fluorobiphenyl
Concen: 52.180 ng
RT: 13.027 min Scan# 1707
Delta R.T. -0.018 min
Lab File: BM049968.D
Acq: 18 Apr 2025 16:27

Tgt Ion:172 Resp: 4321077
Ion Ratio Lower Upper
172 100
171 34.5 27.4 41.2
170 23.2 18.6 28.0

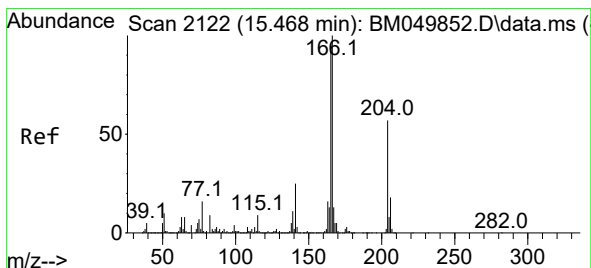
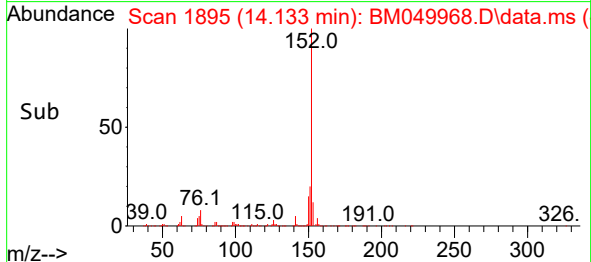
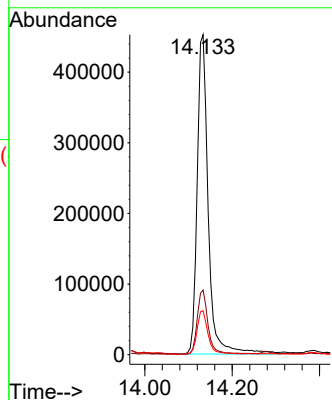
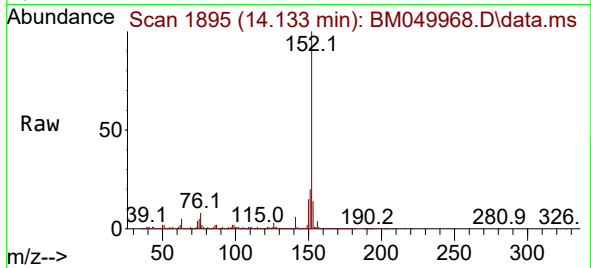




#49
Acenaphthylene
Concen: 8.316 ng
RT: 14.133 min Scan# 1895
Delta R.T. -0.012 min
Lab File: BM049968.D
Acq: 18 Apr 2025 16:27

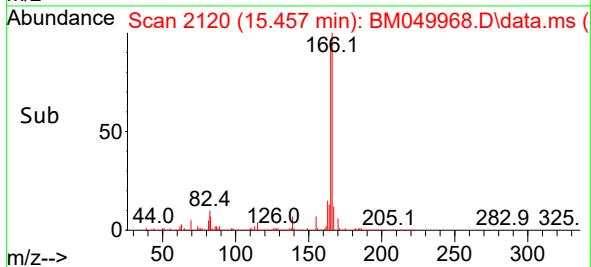
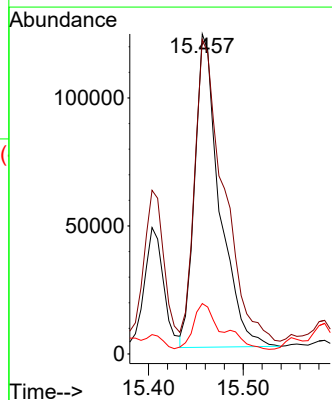
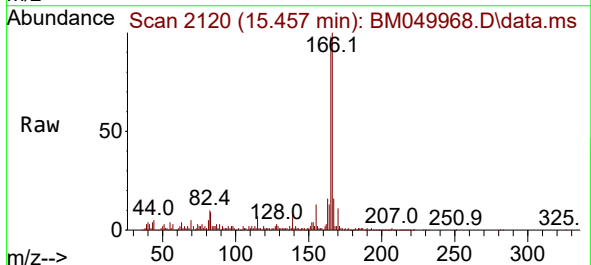
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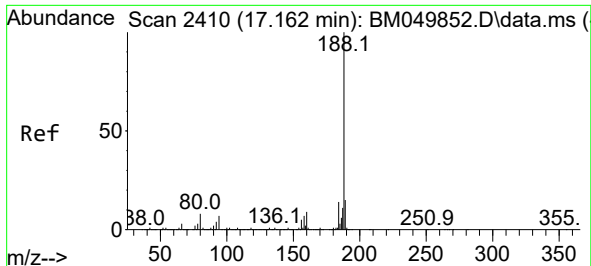
Tgt Ion:152 Resp: 794778
Ion Ratio Lower Upper
152 100
151 20.2 15.7 23.5
153 13.7 10.4 15.6



#58
Fluorene
Concen: 2.759 ng
RT: 15.457 min Scan# 2120
Delta R.T. -0.012 min
Lab File: BM049968.D
Acq: 18 Apr 2025 16:27

Tgt Ion:166 Resp: 222890
Ion Ratio Lower Upper
166 100
165 98.2 76.3 114.5
167 15.8 10.7 16.1

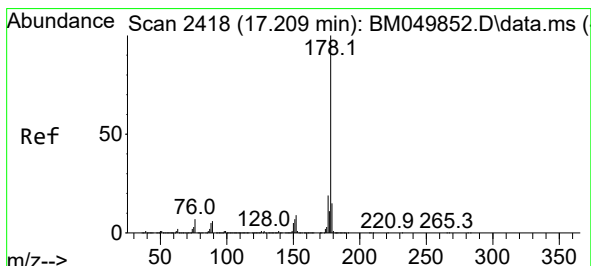
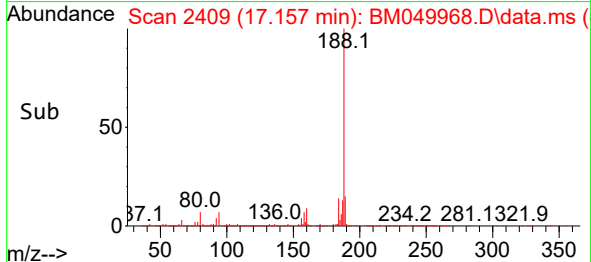
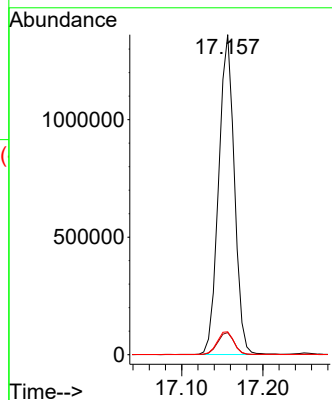
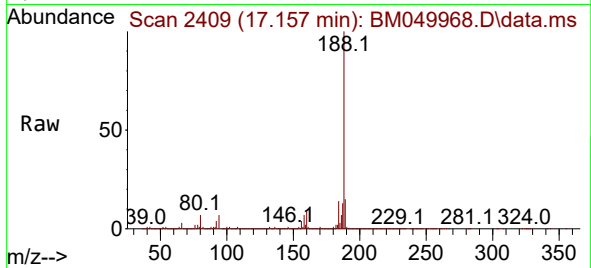




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.157 min Scan# 2410
Delta R.T. -0.006 min
Lab File: BM049968.D
Acq: 18 Apr 2025 16:27

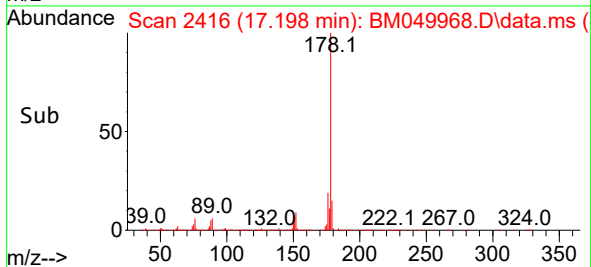
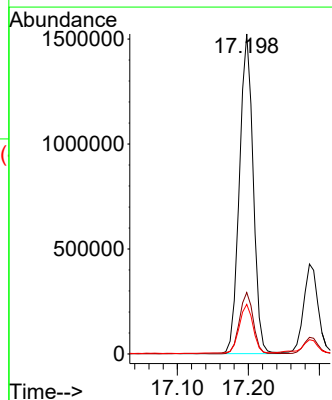
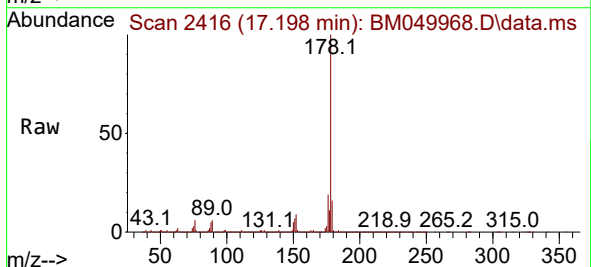
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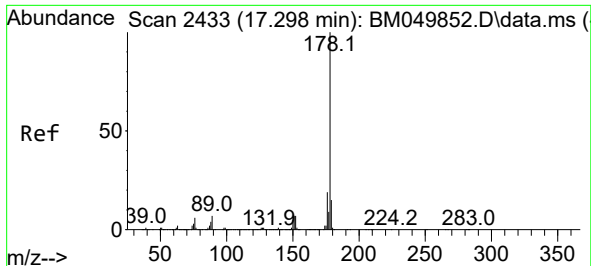
Tgt Ion:188 Resp: 1835696
Ion Ratio Lower Upper
188 100
94 6.9 5.8 8.6
80 7.1 6.4 9.6



#71
Phenanthrene
Concen: 20.401 ng
RT: 17.198 min Scan# 2416
Delta R.T. -0.012 min
Lab File: BM049968.D
Acq: 18 Apr 2025 16:27

Tgt Ion:178 Resp: 2053143
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.5 12.3 18.5

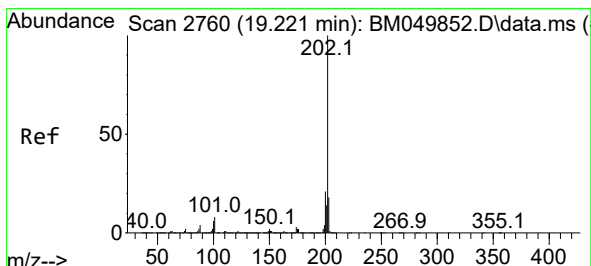
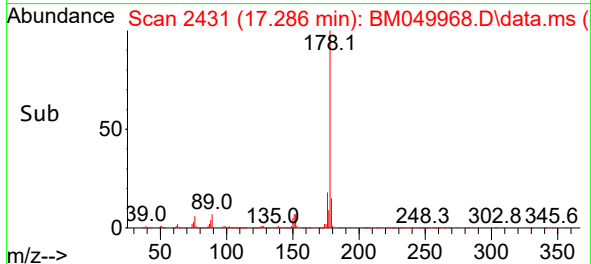
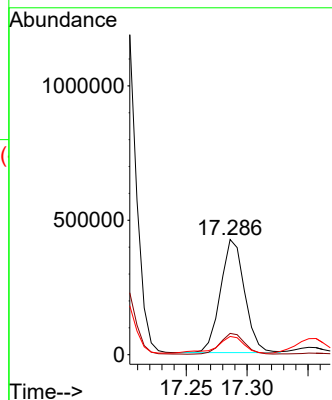
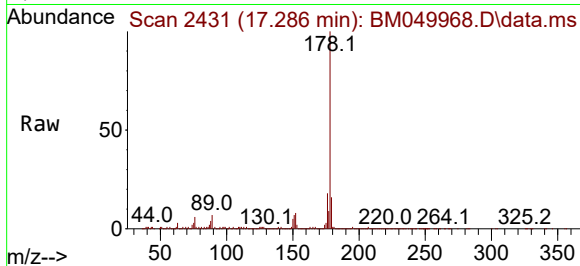




#72
 Anthracene
 Concen: 5.851 ng
 RT: 17.286 min Scan# 2433
 Delta R.T. -0.012 min
 Lab File: BM049968.D
 Acq: 18 Apr 2025 16:27

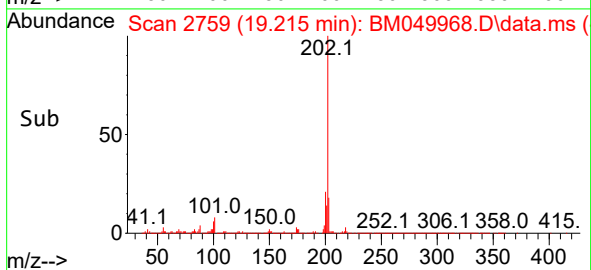
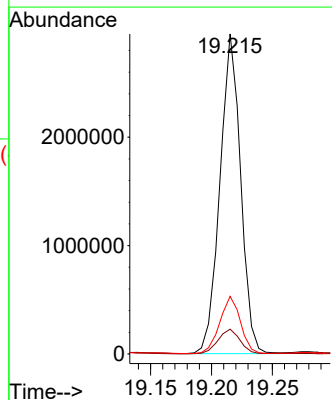
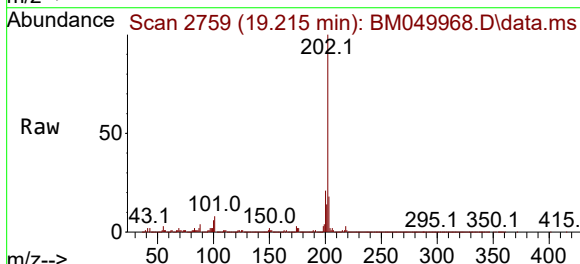
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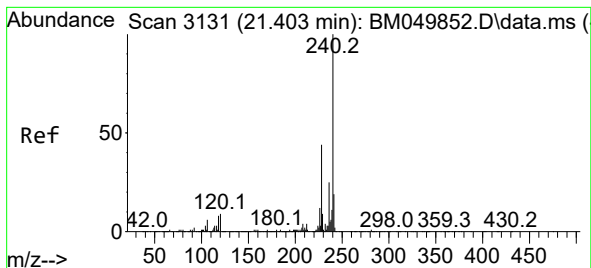
Tgt Ion:178 Resp: 580302
 Ion Ratio Lower Upper
 178 100
 176 18.4 15.1 22.7
 179 15.8 12.4 18.6



#75
 Fluoranthene
 Concen: 28.184 ng
 RT: 19.215 min Scan# 2759
 Delta R.T. -0.006 min
 Lab File: BM049968.D
 Acq: 18 Apr 2025 16:27

Tgt Ion:202 Resp: 3487486
 Ion Ratio Lower Upper
 202 100
 101 7.7 0.0 28.4
 203 18.0 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.392 min Scan# 31

Delta R.T. -0.012 min

Lab File: BM049968.D

Acq: 18 Apr 2025 16:27

Instrument :

BNA_M

ClientSampleId :

SOIL-1

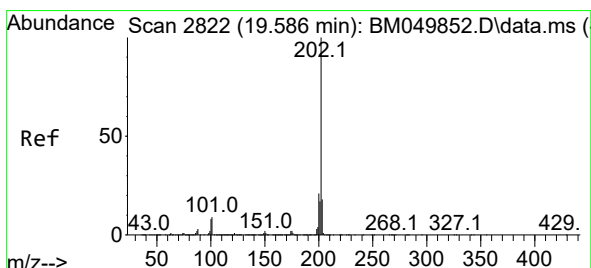
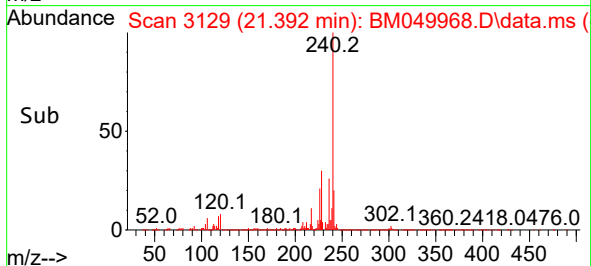
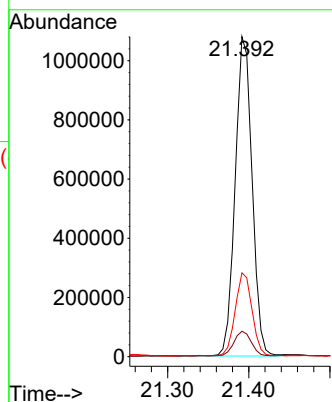
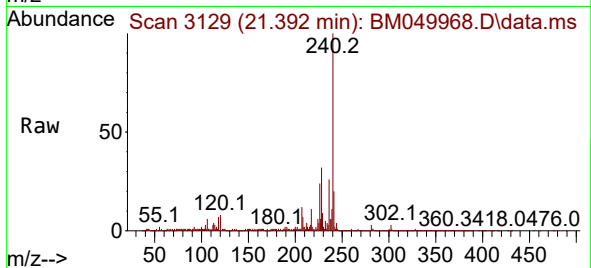
Tgt Ion:240 Resp: 1557172

Ion Ratio Lower Upper

240 100

120 7.9 6.9 10.3

236 26.2 20.4 30.6



#78

Pyrene

Concen: 38.770 ng

RT: 19.580 min Scan# 2821

Delta R.T. -0.006 min

Lab File: BM049968.D

Acq: 18 Apr 2025 16:27

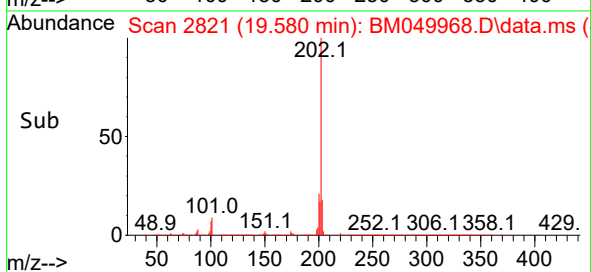
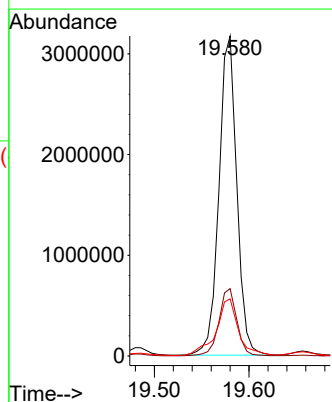
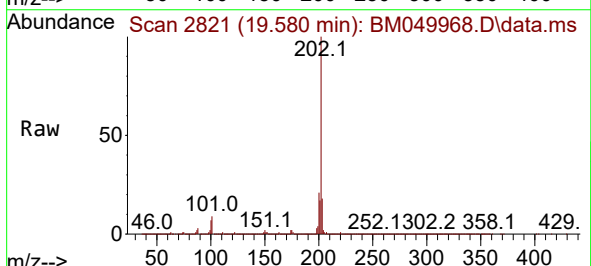
Tgt Ion:202 Resp: 4160682

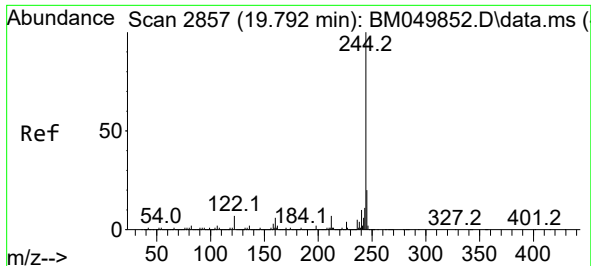
Ion Ratio Lower Upper

202 100

200 21.1 16.5 24.7

203 17.9 14.0 21.0

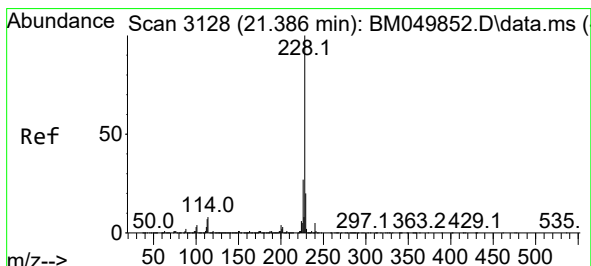
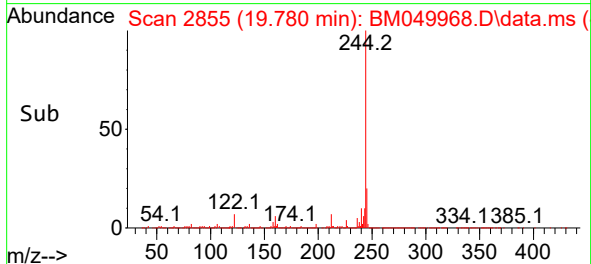
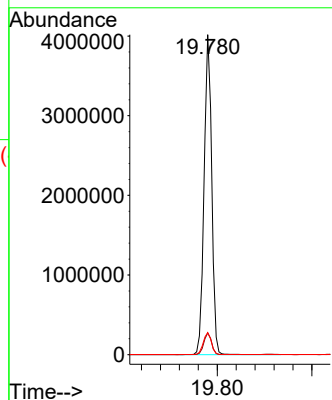
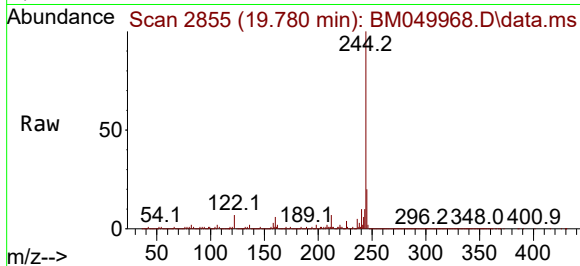




#79
 Terphenyl-d14
 Concen: 53.564 ng
 RT: 19.780 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: BM049968.D
 Acq: 18 Apr 2025 16:27

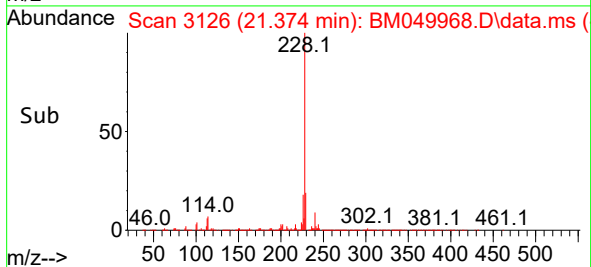
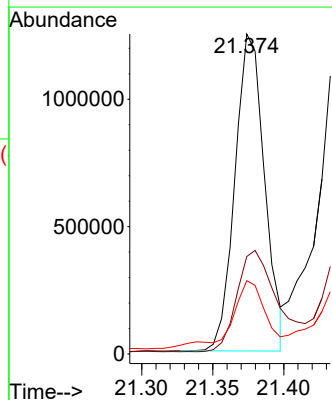
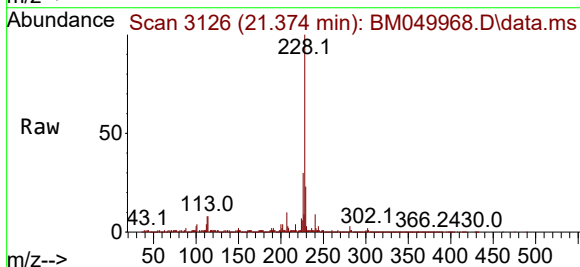
Instrument :
 BNA_M
 ClientSampleId :
 SOIL-1

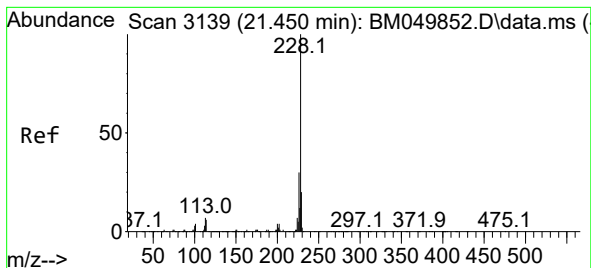
Tgt Ion:244 Resp: 4450674
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.5 8.3
 122 6.9 5.4 8.0



#81
 Benzo(a)anthracene
 Concen: 17.469 ng
 RT: 21.374 min Scan# 3126
 Delta R.T. -0.012 min
 Lab File: BM049968.D
 Acq: 18 Apr 2025 16:27

Tgt Ion:228 Resp: 1807836
 Ion Ratio Lower Upper
 228 100
 226 30.5 21.8 32.8
 229 22.9 15.8 23.8





#83

Chrysene

Concen: 20.866 ng m

RT: 21.439 min Scan# 31

Delta R.T. -0.012 min

Lab File: BM049968.D

Acq: 18 Apr 2025 16:27

Instrument :

BNA_M

ClientSampleId :

SOIL-1

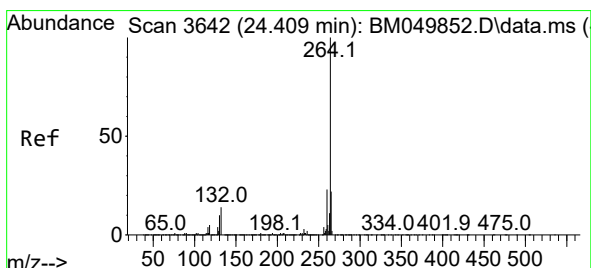
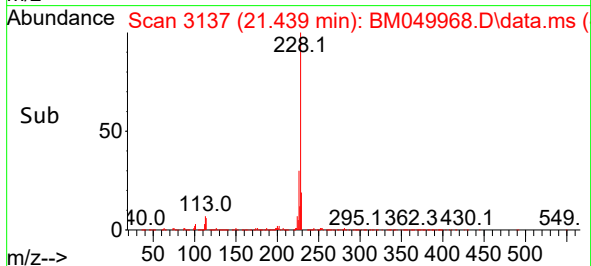
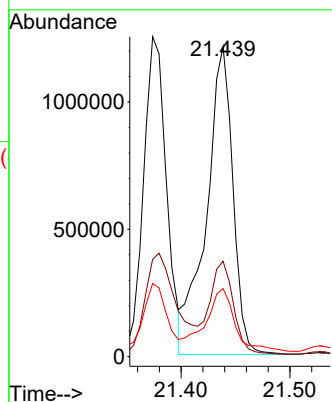
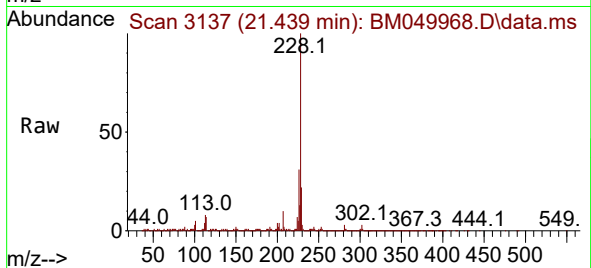
Tgt Ion:228 Resp: 2052953

Ion Ratio Lower Upper

228 100

226 30.8 24.1 36.1

229 22.0 15.8 23.6



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.397 min Scan# 3640

Delta R.T. -0.012 min

Lab File: BM049968.D

Acq: 18 Apr 2025 16:27

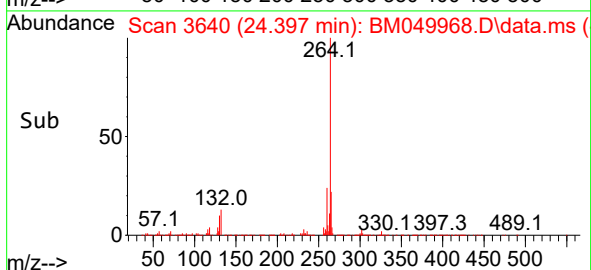
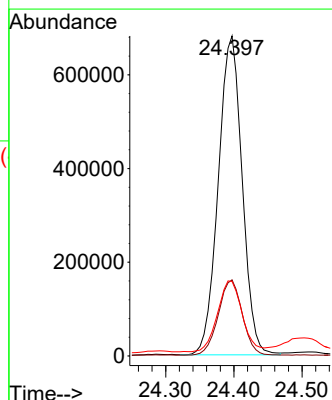
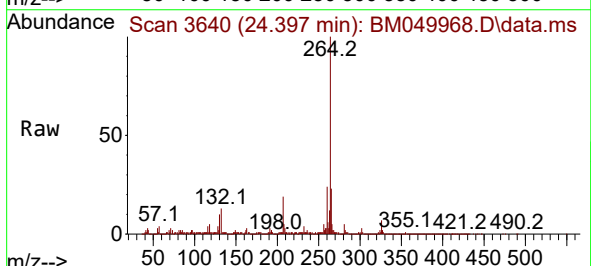
Tgt Ion:264 Resp: 1661753

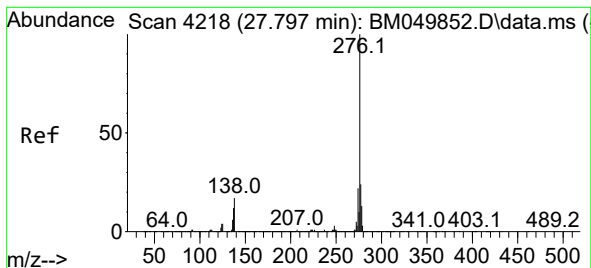
Ion Ratio Lower Upper

264 100

260 23.8 18.6 28.0

265 23.3 17.8 26.8





#87

Indeno(1,2,3-cd)pyrene

Concen: 9.248 ng

RT: 27.779 min Scan# 41

Delta R.T. -0.018 min

Lab File: BM049968.D

Acq: 18 Apr 2025 16:27

Instrument :

BNA_M

ClientSampleId :

SOIL-1

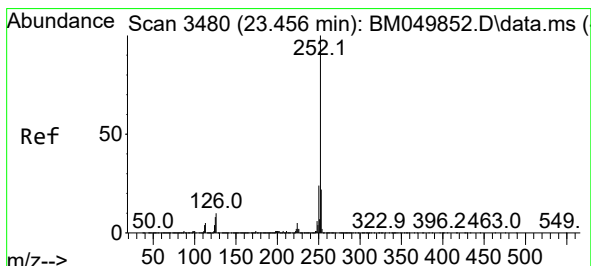
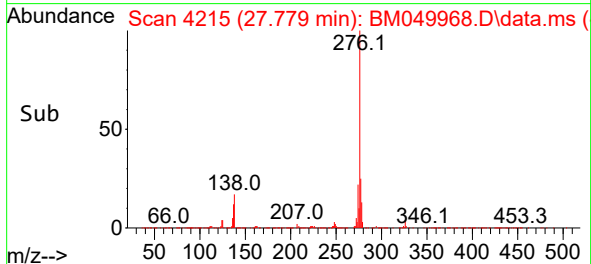
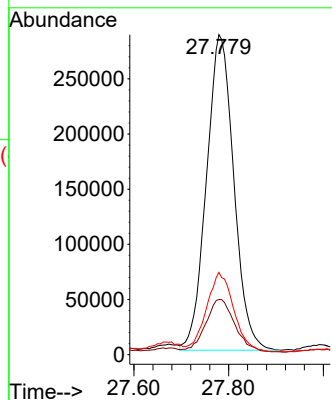
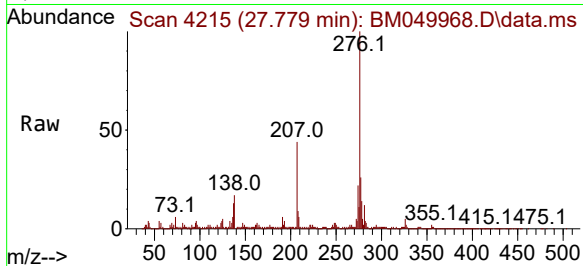
Tgt Ion:276 Resp: 1145542

Ion Ratio Lower Upper

276 100

138 18.0 16.8 25.2

277 25.1 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 21.418 ng

RT: 23.450 min Scan# 3479

Delta R.T. -0.006 min

Lab File: BM049968.D

Acq: 18 Apr 2025 16:27

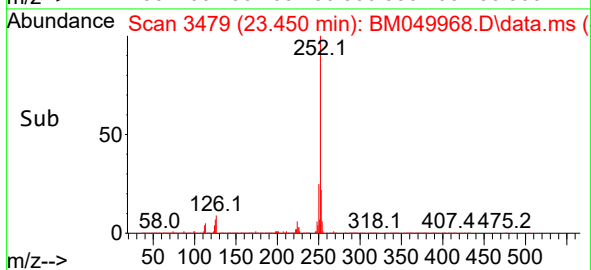
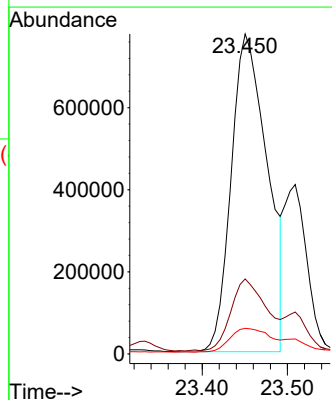
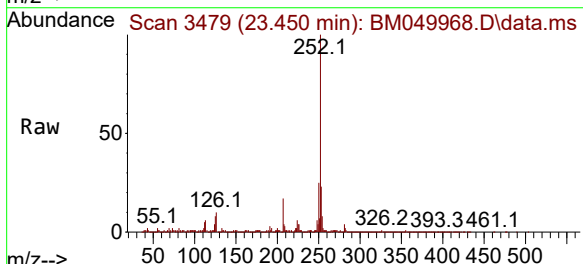
Tgt Ion:252 Resp: 2273046

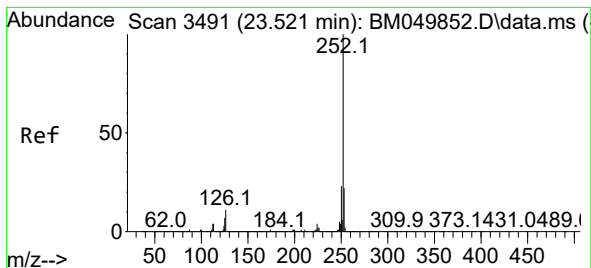
Ion Ratio Lower Upper

252 100

253 23.5 17.5 26.3

125 8.0 6.2 9.4





#89

Benzo(k)fluoranthene

Concen: 7.421 ng m

RT: 23.509 min Scan# 34

Delta R.T. -0.012 min

Lab File: BM049968.D

Acq: 18 Apr 2025 16:27

Instrument :

BNA_M

ClientSampleId :

SOIL-1

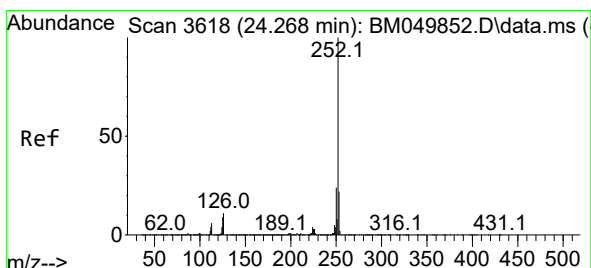
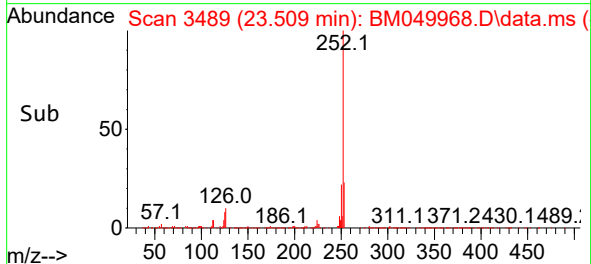
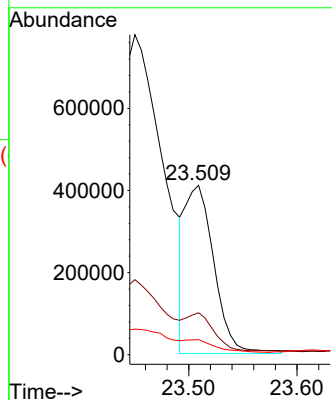
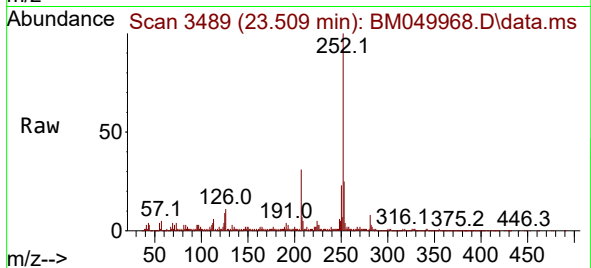
Tgt Ion:252 Resp: 763206

Ion Ratio Lower Upper

252 100

253 24.8 17.4 26.2

125 8.8 5.8 8.8#



#90

Benzo(a)pyrene

Concen: 19.411 ng

RT: 24.256 min Scan# 3616

Delta R.T. -0.012 min

Lab File: BM049968.D

Acq: 18 Apr 2025 16:27

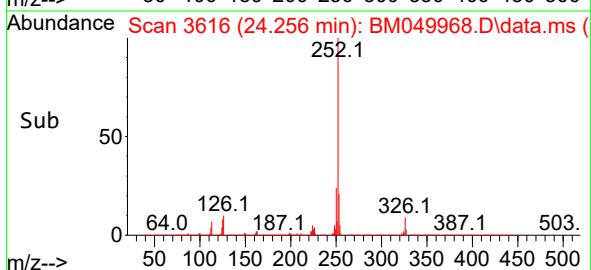
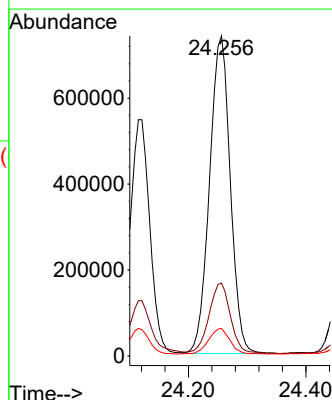
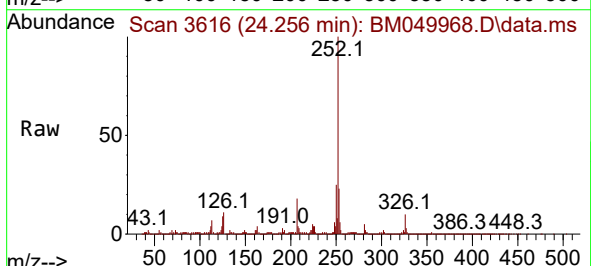
Tgt Ion:252 Resp: 1810307

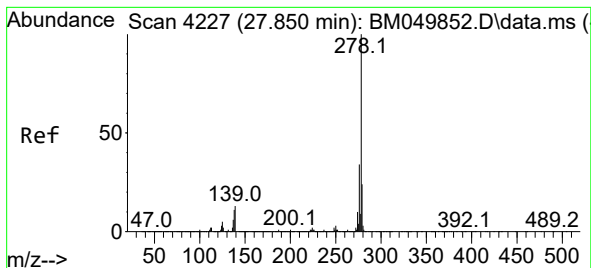
Ion Ratio Lower Upper

252 100

253 22.8 17.8 26.8

125 8.6 7.0 10.4





#91

Dibenzo(a,h)anthracene

Concen: 3.233 ng

RT: 27.815 min Scan# 41

Delta R.T. -0.035 min

Lab File: BM049968.D

Acq: 18 Apr 2025 16:27

Instrument :

BNA_M

ClientSampleId :

SOIL-1

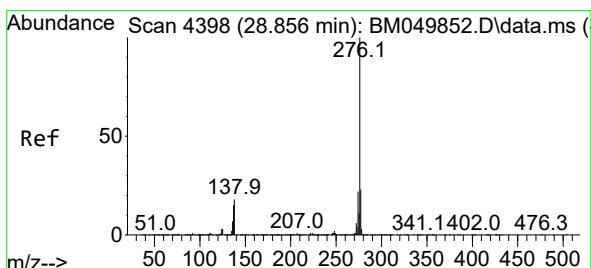
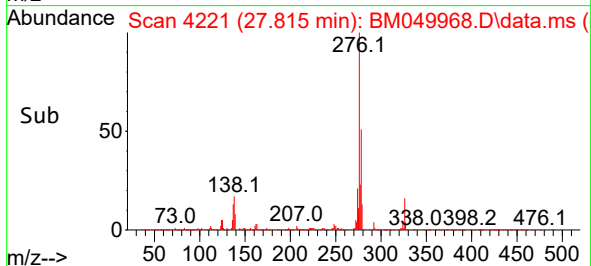
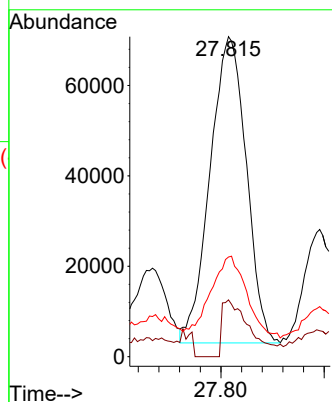
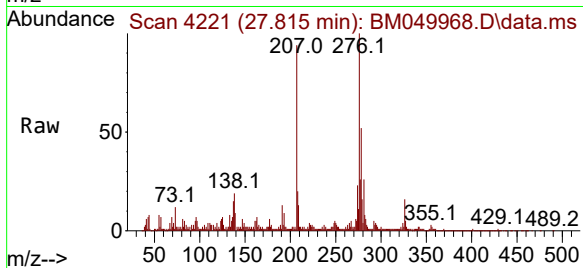
Tgt Ion:278 Resp: 329870

Ion Ratio Lower Upper

278 100

139 17.8 10.6 15.8#

279 31.1 19.1 28.7#



#92

Benzo(g,h,i)perylene

Concen: 11.884 ng

RT: 28.844 min Scan# 4396

Delta R.T. -0.012 min

Lab File: BM049968.D

Acq: 18 Apr 2025 16:27

Tgt Ion:276 Resp: 1239027

Ion Ratio Lower Upper

276 100

277 24.4 18.7 28.1

138 17.9 14.6 21.8

