

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM082724\
 Data File : BM047371.D
 Acq On : 27 Aug 2024 19:59
 Operator : RC/JU
 Sample : P3726-01DL 4X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MOO-SOIL-PILEDL

Quant Time: Aug 28 02:31:54 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM082624.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 26 18:11:40 2024
 Response via : Initial Calibration

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

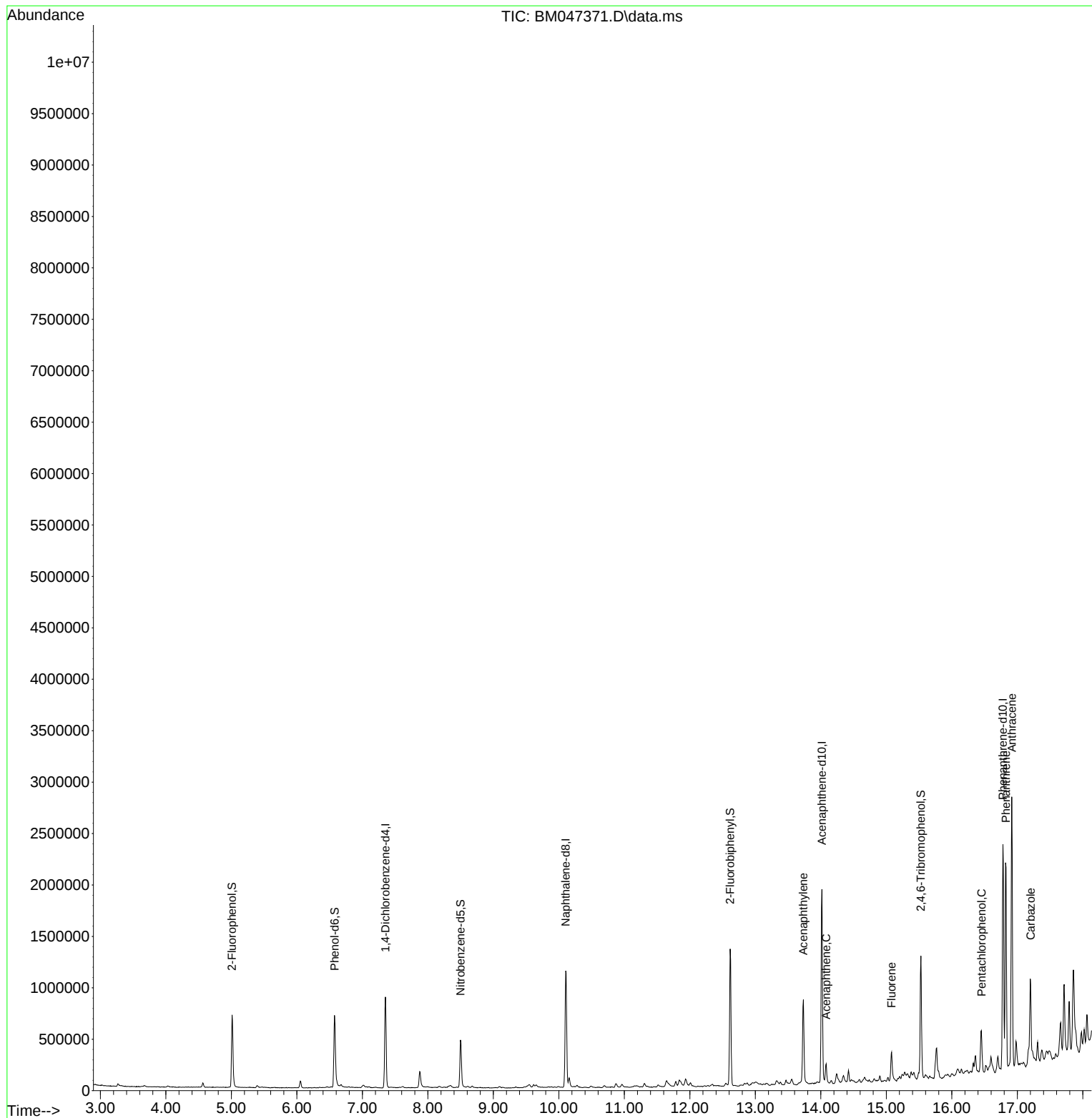
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.351	152	250839	20.000	ng	0.00
21) Naphthalene-d8	10.104	136	976345	20.000	ng	0.00
39) Acenaphthene-d10	14.016	164	667483	20.000	ng	0.00
64) Phenanthrene-d10	16.780	188	1331683	20.000	ng	0.00
76) Chrysene-d12	21.027	240	865377	20.000	ng	0.00
86) Perylene-d12	23.733	264	1000104	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.010	112	338957	25.925	ng	0.00
7) Phenol-d6	6.575	99	448159	25.162	ng	0.00
23) Nitrobenzene-d5	8.498	82	283306	16.100	ng	0.00
42) 2,4,6-Tribromophenol	15.527	330	208636	25.908	ng	0.00
45) 2-Fluorobiphenyl	12.616	172	730335	16.812	ng	0.00
79) Terphenyl-d14	19.451	244	862046	17.731	ng	0.00
Target Compounds						Qvalue
9) Benzaldehyde	6.528	77	3219	Below Cal		94
49) Acenaphthylene	13.733	152	655953	12.357	ng	99
52) Acenaphthene	14.080	154	70772	2.100	ng	99
58) Fluorene	15.080	166	144115	3.281	ng	97
70) Pentachlorophenol	16.457	266	52376	4.993	ng	98
71) Phenanthrene	16.827	178	1238476	19.150	ng	100
72) Anthracene	16.915	178	1651972	26.203	ng	100
73) Carbazole	17.204	167	547058	9.043	ng	100
75) Fluoranthene	18.868	202	4491128	59.143	ng	99
78) Pyrene	19.233	202	5054653	76.157	ng	100
81) Benzo(a)anthracene	21.009	228	1968269	34.877	ng	95
83) Chrysene	21.068	228	2856914	53.817	ng	98
87) Indeno(1,2,3-cd)pyrene	26.744	276	1162123	18.562	ng	96
88) Benzo(b)fluoranthene	22.897	252	4003130	68.608	ng	98
89) Benzo(k)fluoranthene	22.897	252	4003130	72.373	ng	98
90) Benzo(a)pyrene	23.609	252	1478765	29.307	ng	97
91) Dibenzo(a,h)anthracene	26.780	278	292675	5.771	ng	# 89
92) Benzo(g,h,i)perylene	27.685	276	1013148	19.215	ng	100

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

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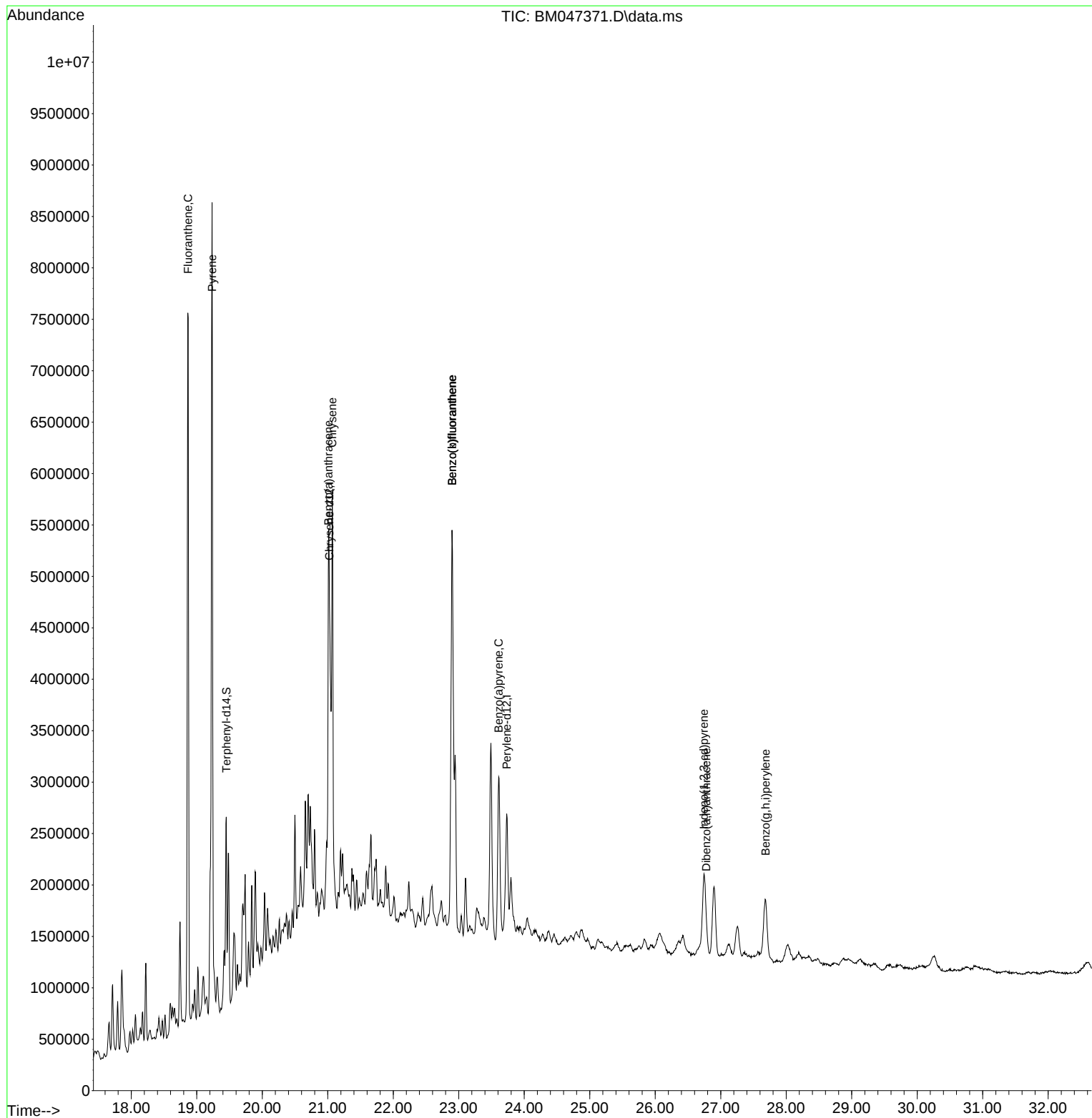
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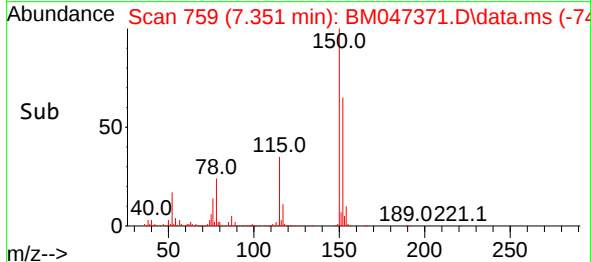
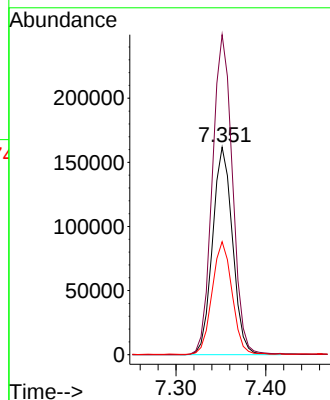
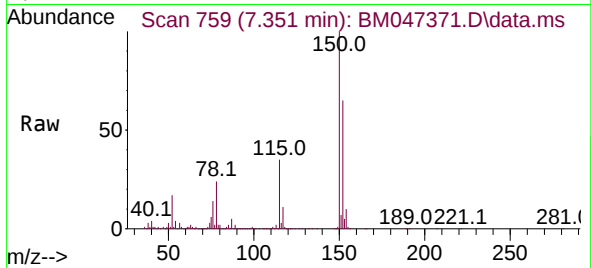




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.351 min Scan# 71
Delta R.T. 0.000 min
Lab File: BM047371.D
Acq: 27 Aug 2024 19:59

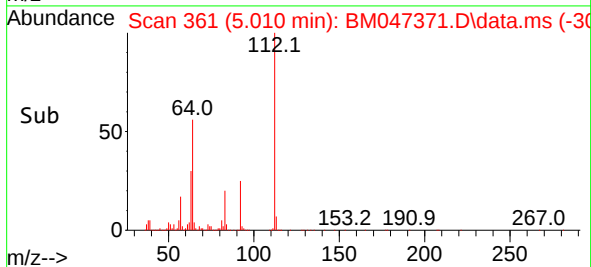
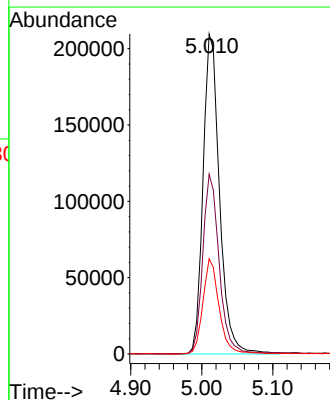
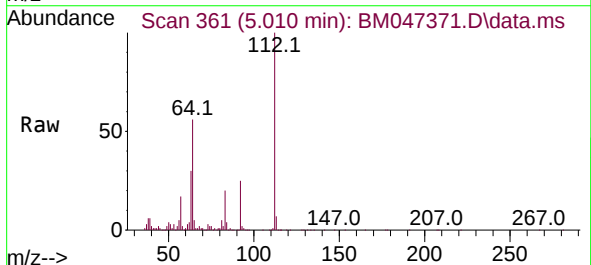
Instrument :
BNA_M
ClientSampleId :
MOO-SOIL-PILEDL

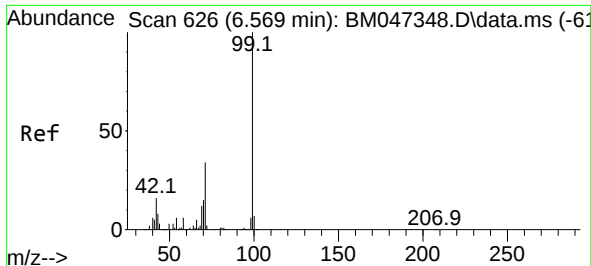
Tgt Ion:152 Resp: 250839
Ion Ratio Lower Upper
152 100
150 154.2 121.3 181.9
115 54.4 42.6 64.0



#5
2-Fluorophenol
Concen: 25.925 ng
RT: 5.010 min Scan# 361
Delta R.T. 0.006 min
Lab File: BM047371.D
Acq: 27 Aug 2024 19:59

Tgt Ion:112 Resp: 338957
Ion Ratio Lower Upper
112 100
64 56.2 45.7 68.5
63 29.8 23.8 35.8

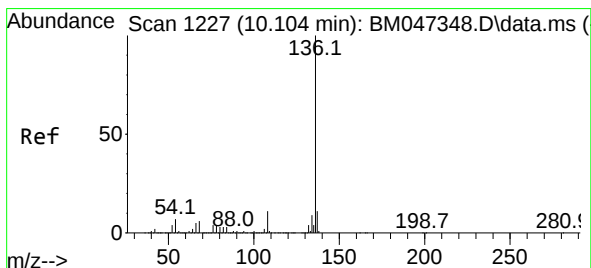
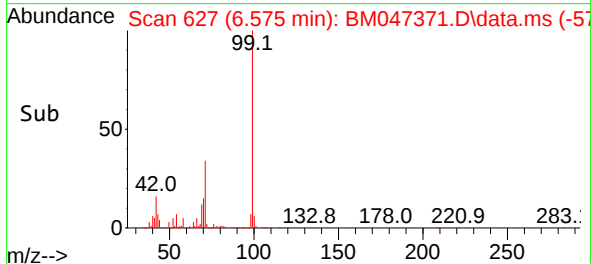
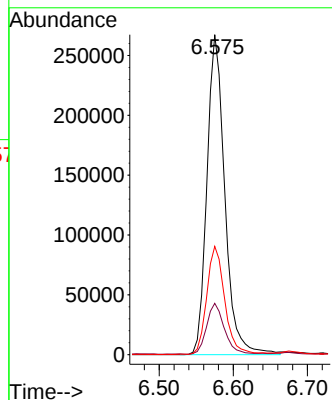
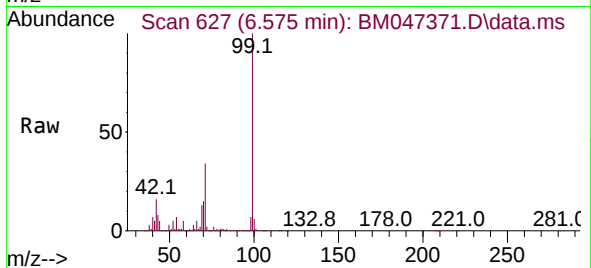




#7
Phenol-d6
Concen: 25.162 ng
RT: 6.575 min Scan# 61
Delta R.T. 0.006 min
Lab File: BM047371.D
Acq: 27 Aug 2024 19:59

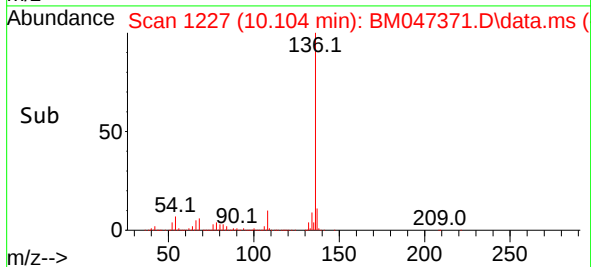
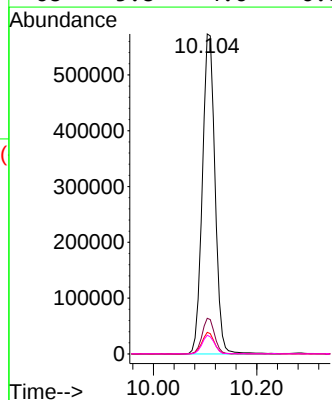
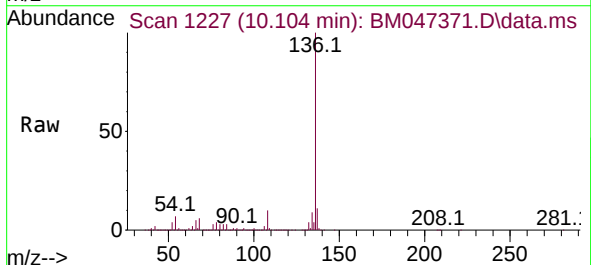
Instrument :
BNA_M
ClientSampleId :
MOO-SOIL-PILEDL

Tgt Ion: 99 Resp: 448159
Ion Ratio Lower Upper
99 100
42 16.1 13.0 19.4
71 33.8 27.5 41.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.104 min Scan# 1227
Delta R.T. 0.000 min
Lab File: BM047371.D
Acq: 27 Aug 2024 19:59

Tgt Ion: 136 Resp: 976345
Ion Ratio Lower Upper
136 100
137 11.2 8.8 13.2
54 6.7 5.2 7.8
68 5.8 4.6 6.8

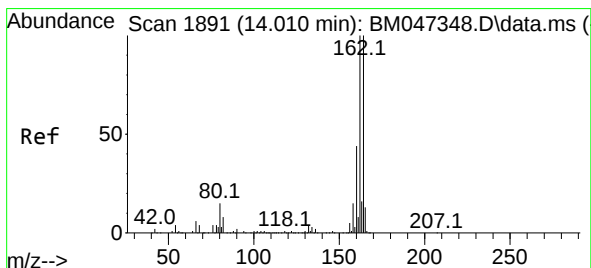
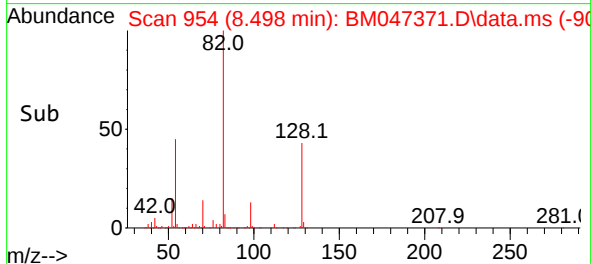
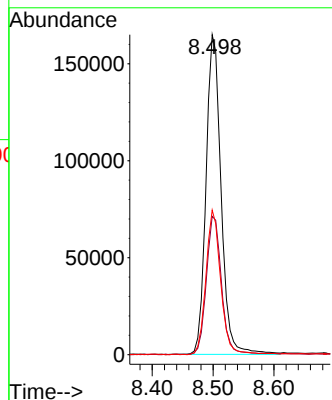
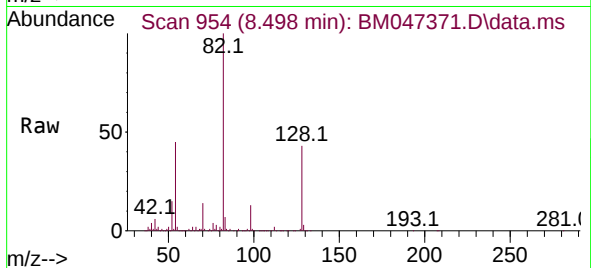




#23
Nitrobenzene-d5
Concen: 16.100 ng
RT: 8.498 min Scan# 91
Delta R.T. 0.000 min
Lab File: BM047371.D
Acq: 27 Aug 2024 19:59

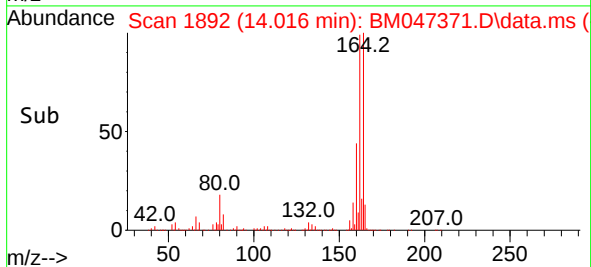
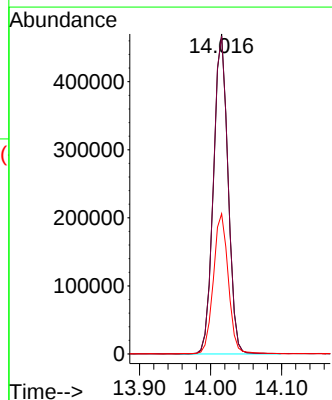
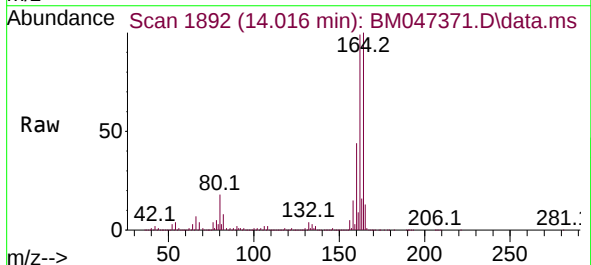
Instrument :
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ClientSampleId :
MOO-SOIL-PILEDL

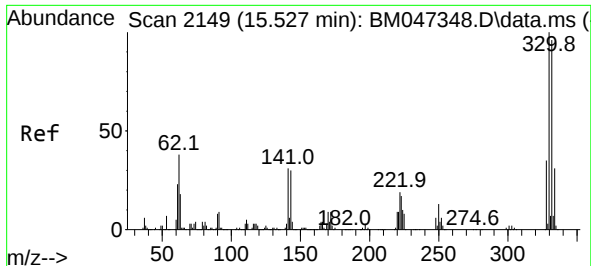
Tgt Ion: 82 Resp: 283306
Ion Ratio Lower Upper
82 100
128 43.3 34.6 51.8
54 45.2 35.5 53.3



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.016 min Scan# 1892
Delta R.T. 0.006 min
Lab File: BM047371.D
Acq: 27 Aug 2024 19:59

Tgt Ion:164 Resp: 667483
Ion Ratio Lower Upper
164 100
162 99.4 79.7 119.5
160 43.8 34.9 52.3

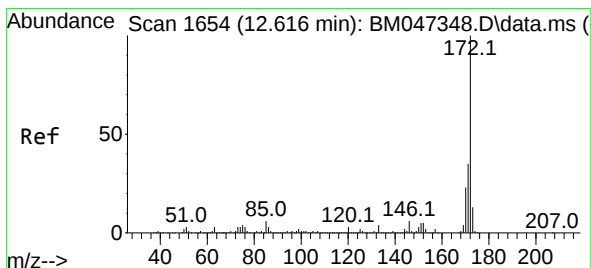
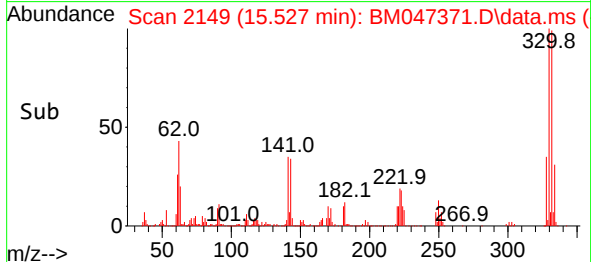
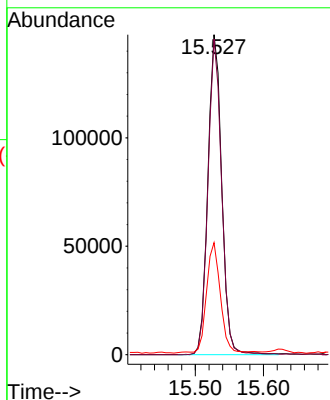
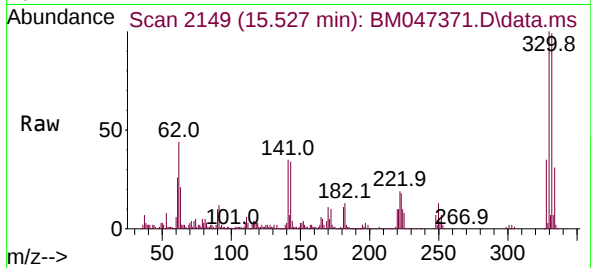




#42
2,4,6-Tribromophenol
Concen: 25.908 ng
RT: 15.527 min Scan# 2149
Delta R.T. 0.000 min
Lab File: BM047371.D
Acq: 27 Aug 2024 19:59

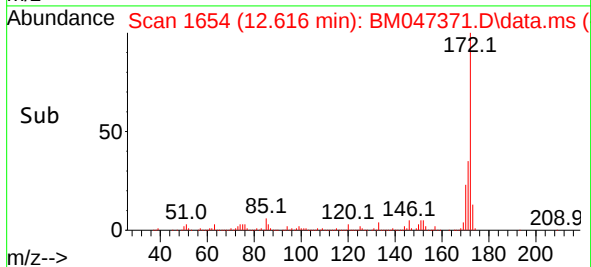
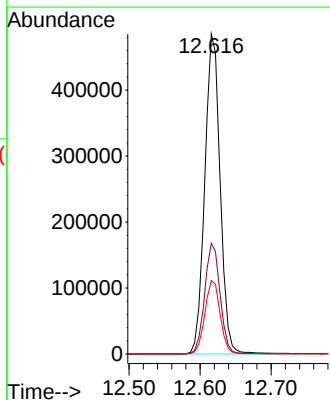
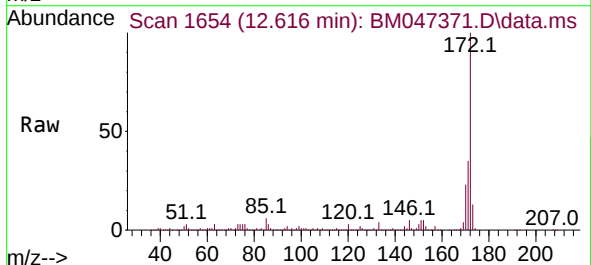
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BNA_M
ClientSampleId :
MOO-SOIL-PILEDL

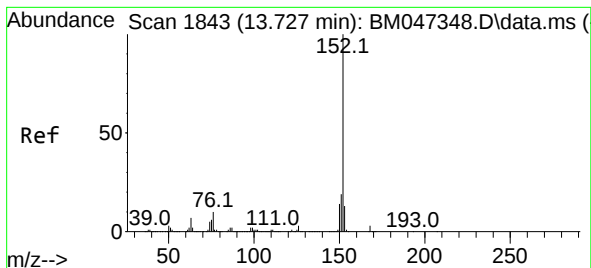
Tgt Ion:330 Resp: 208636
Ion Ratio Lower Upper
330 100
332 97.2 77.2 115.8
141 34.6 27.6 41.4



#45
2-Fluorobiphenyl
Concen: 16.812 ng
RT: 12.616 min Scan# 1654
Delta R.T. 0.000 min
Lab File: BM047371.D
Acq: 27 Aug 2024 19:59

Tgt Ion:172 Resp: 730335
Ion Ratio Lower Upper
172 100
171 34.6 27.8 41.6
170 23.0 18.5 27.7





#49

Acenaphthylene

Concen: 12.357 ng

RT: 13.733 min Scan# 1

Delta R.T. 0.006 min

Lab File: BM047371.D

Acq: 27 Aug 2024 19:59

Instrument :

BNA_M

ClientSampleId :

MOO-SOIL-PILEDL

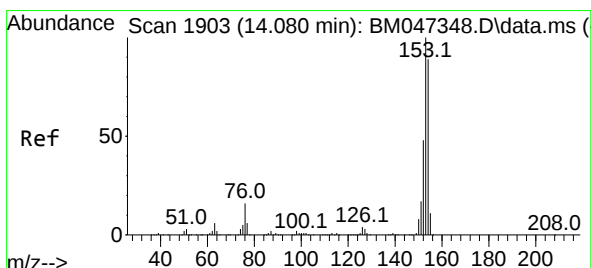
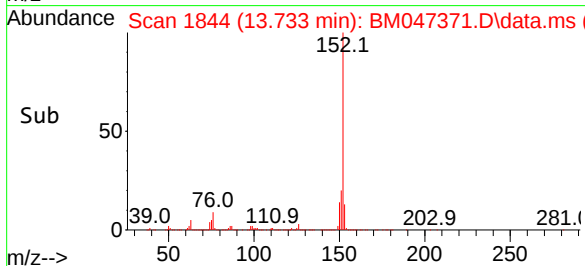
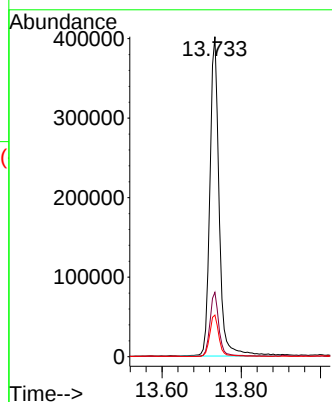
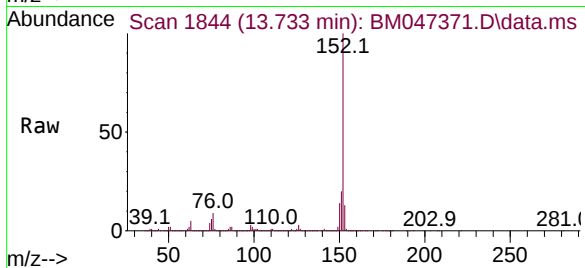
Tgt Ion:152 Resp: 655953

Ion Ratio Lower Upper

152 100

151 20.1 15.4 23.0

153 13.0 10.6 15.8



#52

Acenaphthene

Concen: 2.100 ng

RT: 14.080 min Scan# 1903

Delta R.T. 0.000 min

Lab File: BM047371.D

Acq: 27 Aug 2024 19:59

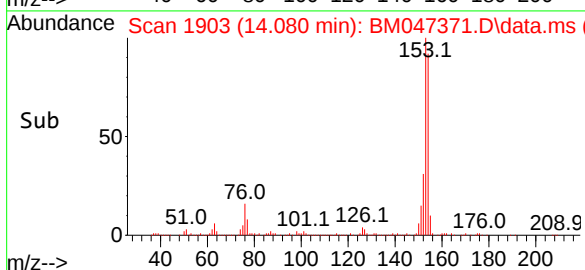
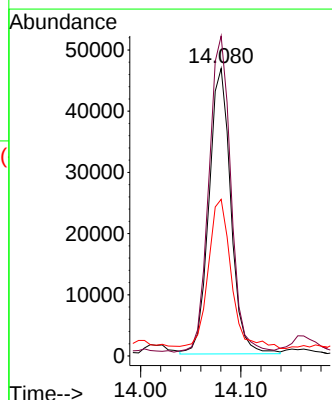
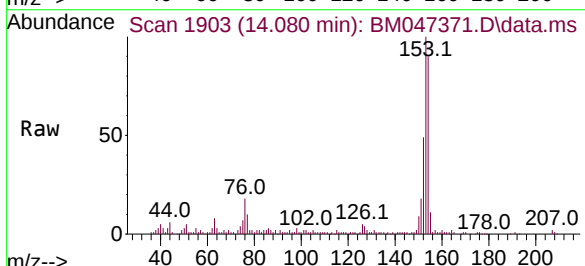
Tgt Ion:154 Resp: 70772

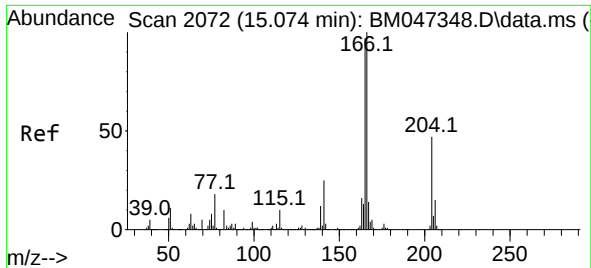
Ion Ratio Lower Upper

154 100

153 111.3 89.5 134.3

152 54.5 43.0 64.4

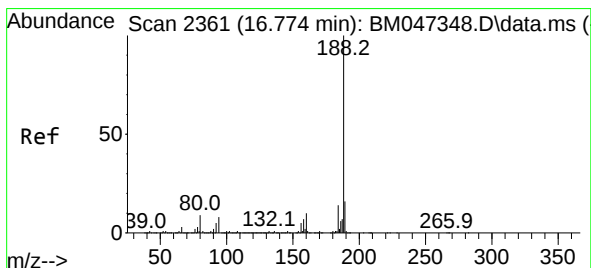
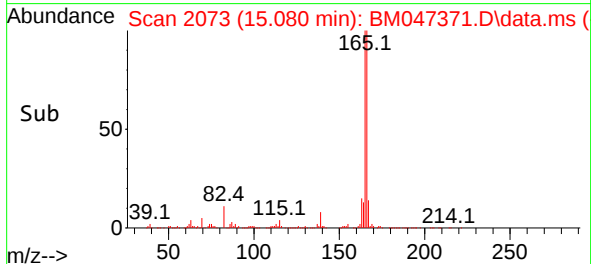
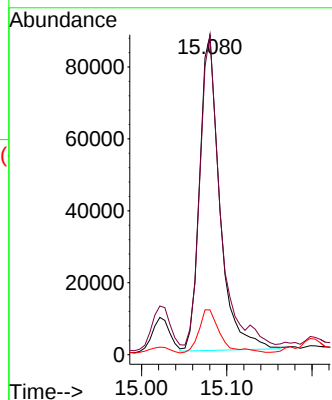
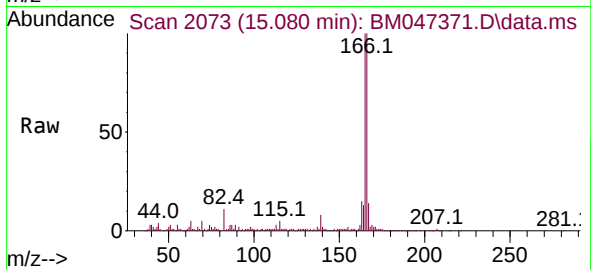




#58
Fluorene
Concen: 3.281 ng
RT: 15.080 min Scan# 2072
Delta R.T. 0.006 min
Lab File: BM047371.D
Acq: 27 Aug 2024 19:59

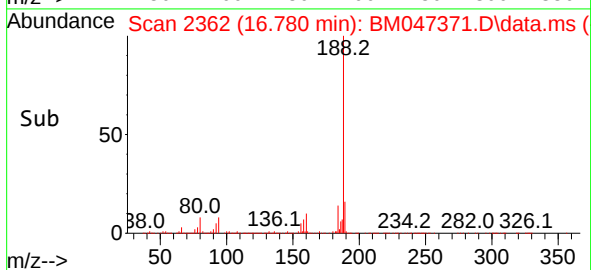
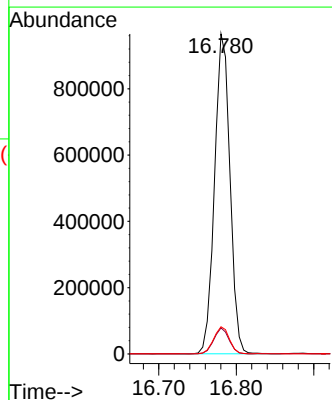
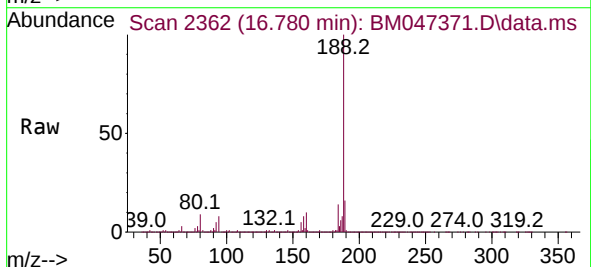
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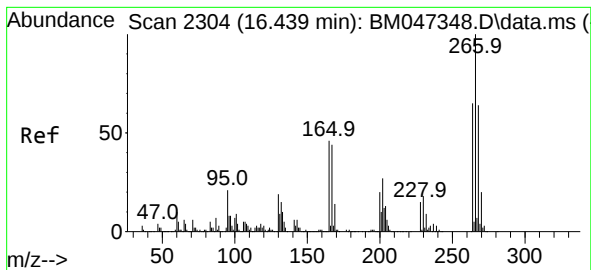
Tgt Ion:166 Resp: 144115
Ion Ratio Lower Upper
166 100
165 100.3 77.8 116.6
167 14.1 11.1 16.7



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.780 min Scan# 2362
Delta R.T. 0.006 min
Lab File: BM047371.D
Acq: 27 Aug 2024 19:59

Tgt Ion:188 Resp: 1331683
Ion Ratio Lower Upper
188 100
94 8.1 6.4 9.6
80 8.5 7.4 11.2





#70

Pentachlorophenol

Concen: 4.993 ng

RT: 16.457 min Scan# 21

Delta R.T. 0.018 min

Lab File: BM047371.D

Acq: 27 Aug 2024 19:59

Instrument :

BNA_M

ClientSampleId :

MOO-SOIL-PILEDL

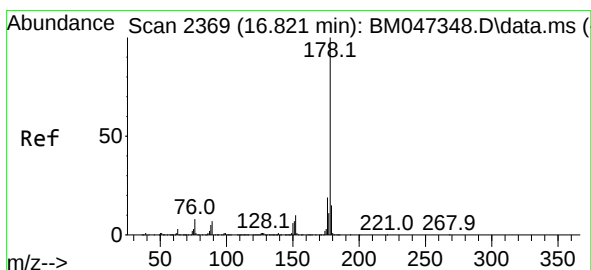
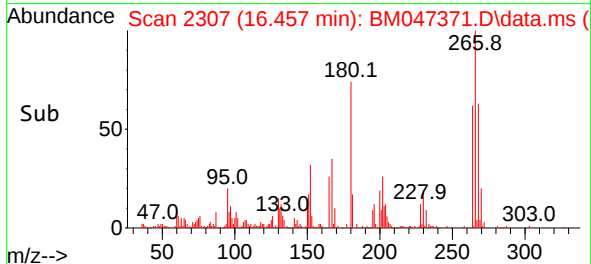
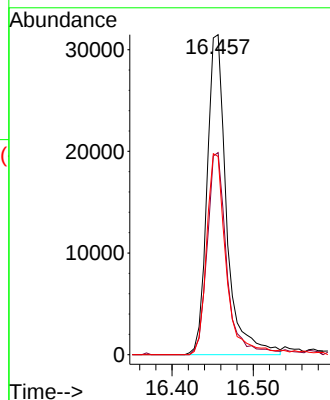
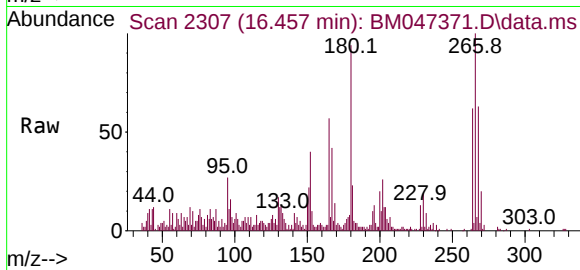
Tgt Ion:266 Resp: 52376

Ion Ratio Lower Upper

266 100

268 63.2 51.0 76.6

264 62.0 51.9 77.9



#71

Phenanthrene

Concen: 19.150 ng

RT: 16.827 min Scan# 2370

Delta R.T. 0.006 min

Lab File: BM047371.D

Acq: 27 Aug 2024 19:59

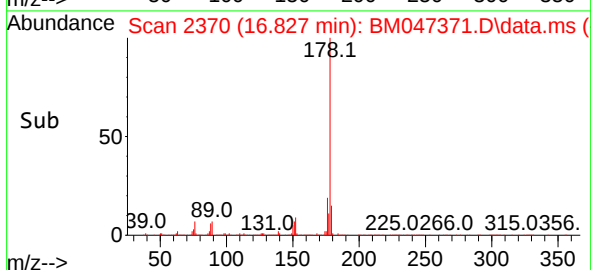
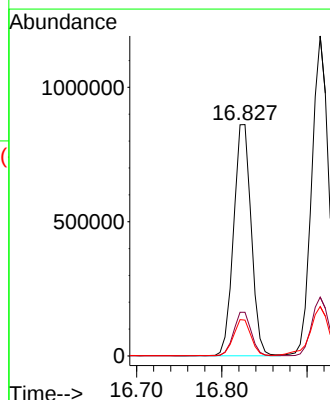
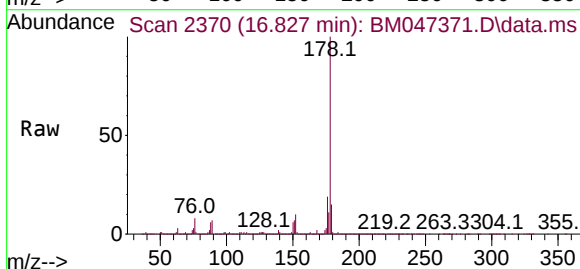
Tgt Ion:178 Resp: 1238476

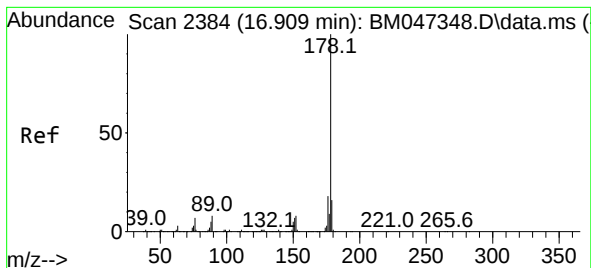
Ion Ratio Lower Upper

178 100

176 18.9 15.2 22.8

179 15.5 12.2 18.4





#72

Anthracene

Concen: 26.203 ng

RT: 16.915 min Scan# 21

Delta R.T. 0.006 min

Lab File: BM047371.D

Acq: 27 Aug 2024 19:59

Instrument :

BNA_M

ClientSampleId :

MOO-SOIL-PILEDL

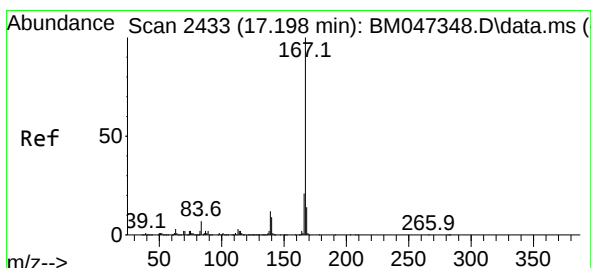
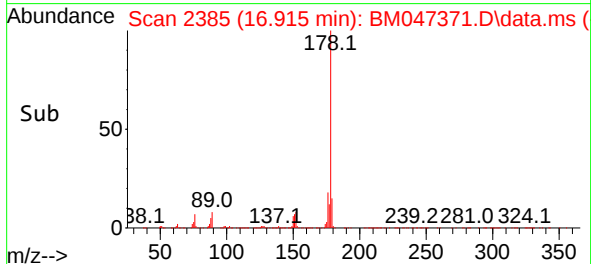
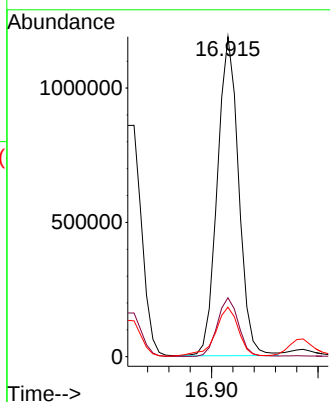
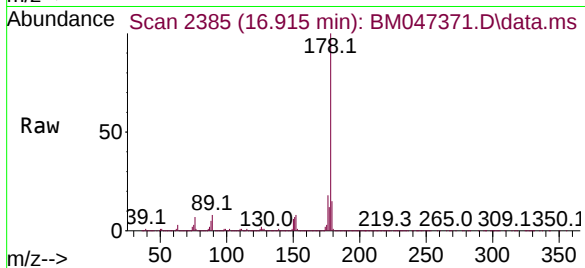
Tgt Ion:178 Resp: 1651972

Ion Ratio Lower Upper

178 100

176 18.4 14.7 22.1

179 15.5 12.6 18.8



#73

Carbazole

Concen: 9.043 ng

RT: 17.204 min Scan# 2434

Delta R.T. 0.006 min

Lab File: BM047371.D

Acq: 27 Aug 2024 19:59

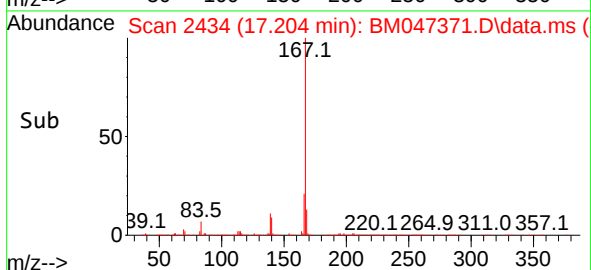
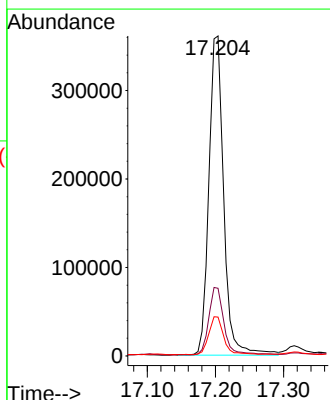
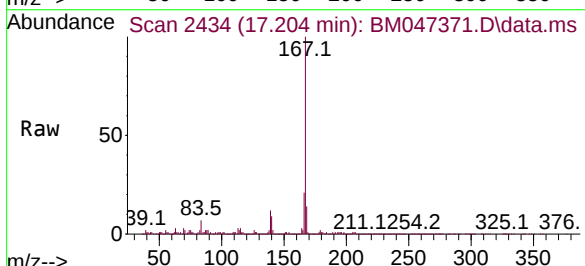
Tgt Ion:167 Resp: 547058

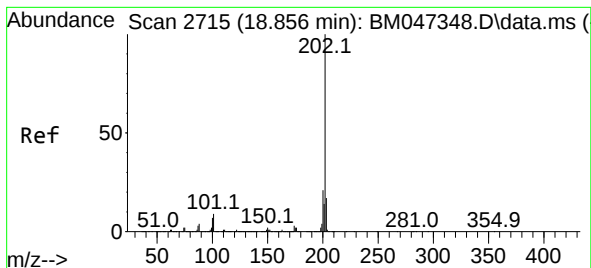
Ion Ratio Lower Upper

167 100

166 21.1 16.9 25.3

139 12.1 9.5 14.3





#75

Fluoranthene

Concen: 59.143 ng

RT: 18.868 min Scan# 2717

Delta R.T. 0.012 min

Lab File: BM047371.D

Acq: 27 Aug 2024 19:59

Instrument :

BNA_M

ClientSampleId :

MOO-SOIL-PILEDL

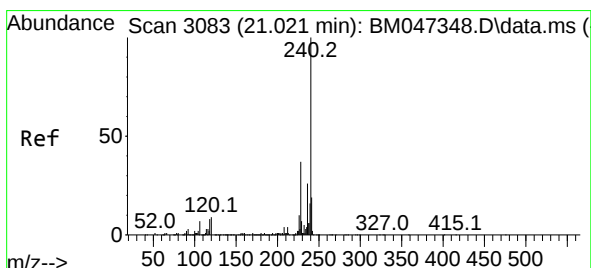
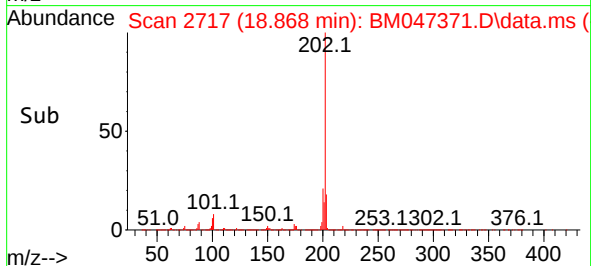
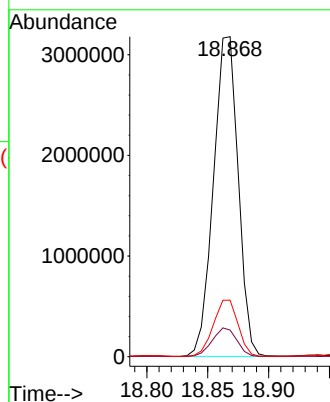
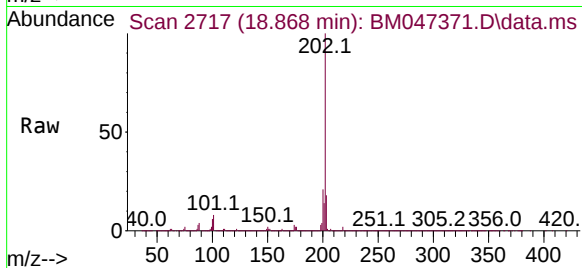
Tgt Ion:202 Resp: 4491128

Ion Ratio Lower Upper

202 100

101 8.3 0.0 29.0

203 17.7 0.0 37.5



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.027 min Scan# 3084

Delta R.T. 0.006 min

Lab File: BM047371.D

Acq: 27 Aug 2024 19:59

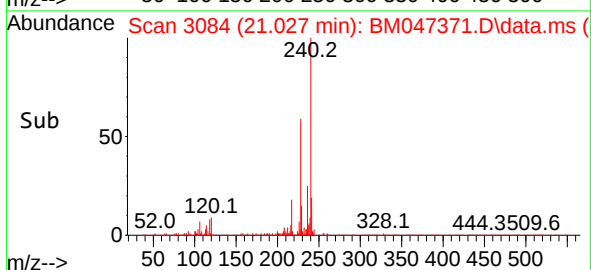
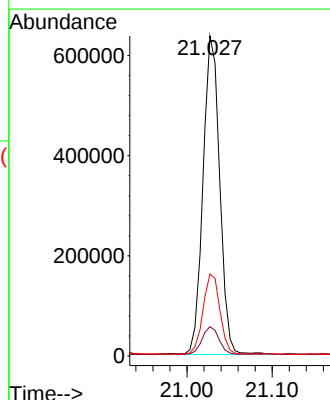
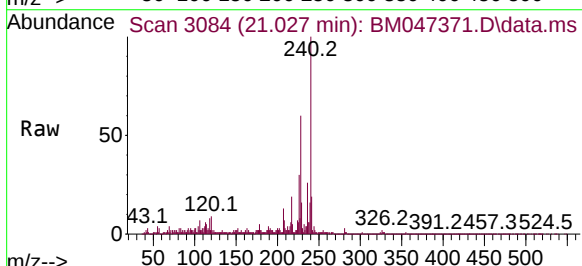
Tgt Ion:240 Resp: 865377

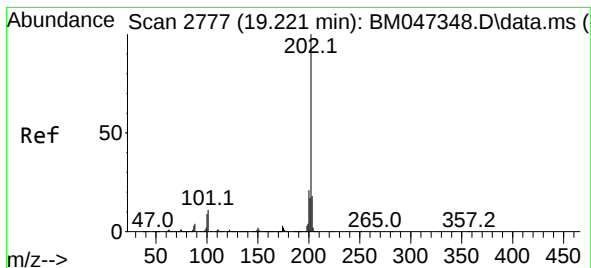
Ion Ratio Lower Upper

240 100

120 9.2 7.4 11.0

236 25.7 20.8 31.2





#78

Pyrene

Concen: 76.157 ng

RT: 19.233 min Scan# 21

Delta R.T. 0.012 min

Lab File: BM047371.D

Acq: 27 Aug 2024 19:59

Instrument :

BNA_M

ClientSampleId :

MOO-SOIL-PILEDL

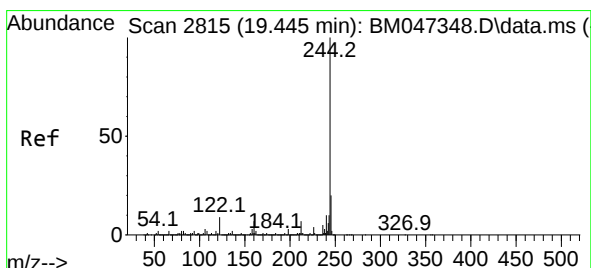
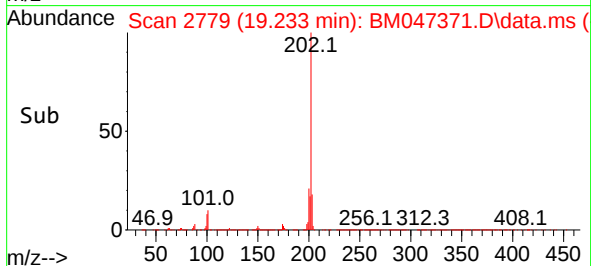
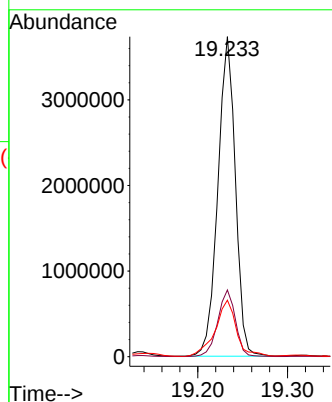
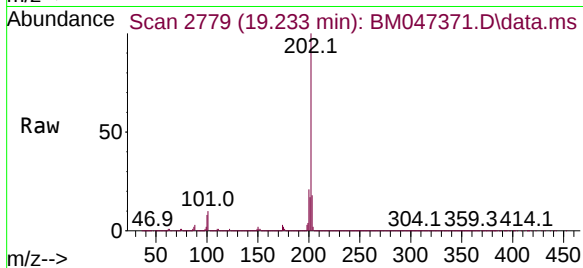
Tgt Ion:202 Resp: 5054653

Ion Ratio Lower Upper

202 100

200 20.8 16.7 25.1

203 17.7 14.2 21.4



#79

Terphenyl-d14

Concen: 17.731 ng

RT: 19.451 min Scan# 2816

Delta R.T. 0.006 min

Lab File: BM047371.D

Acq: 27 Aug 2024 19:59

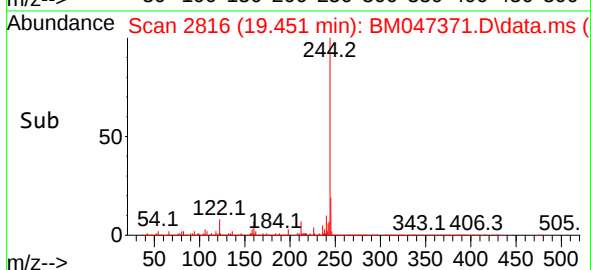
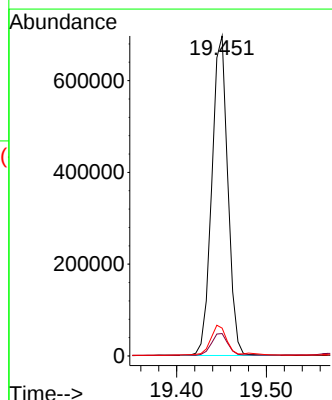
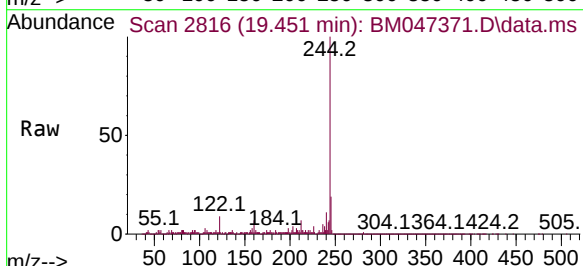
Tgt Ion:244 Resp: 862046

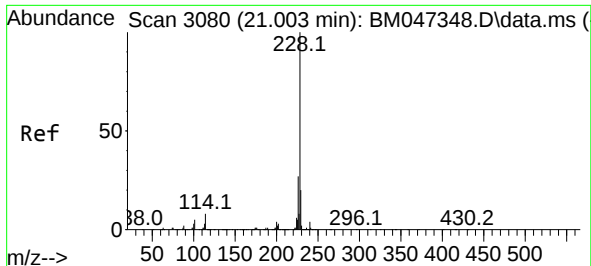
Ion Ratio Lower Upper

244 100

212 7.0 6.0 9.0

122 8.7 7.0 10.4

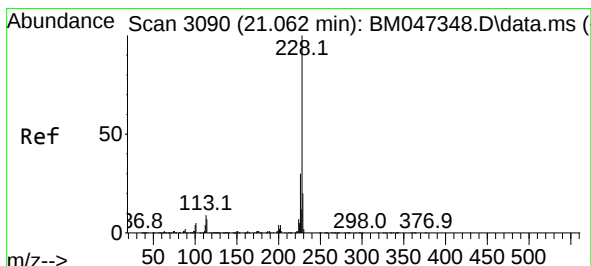
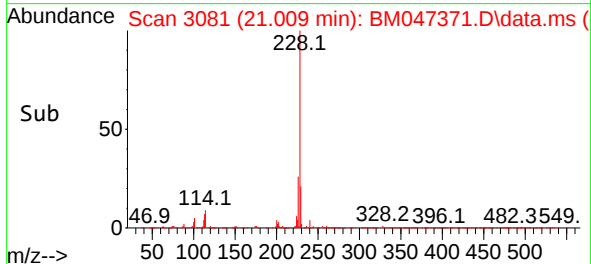
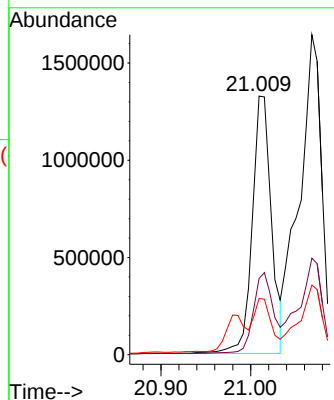
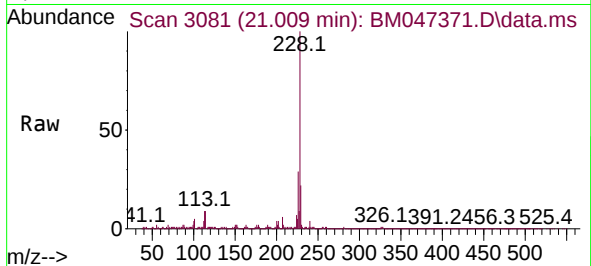




#81
Benzo(a)anthracene
Concen: 34.877 ng
RT: 21.009 min Scan# 3080
Delta R.T. 0.006 min
Lab File: BM047371.D
Acq: 27 Aug 2024 19:59

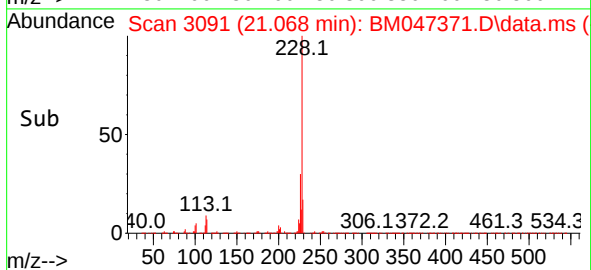
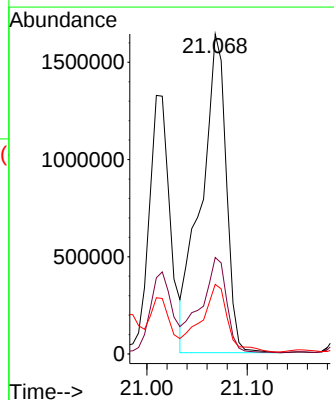
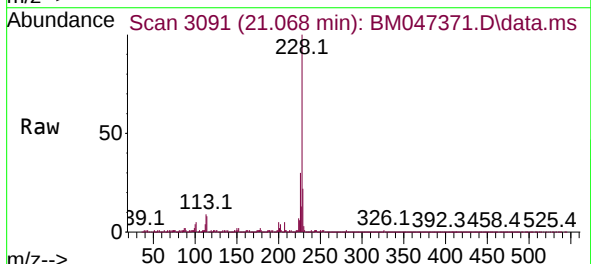
Instrument :
BNA_M
ClientSampleId :
MOO-SOIL-PILEDL

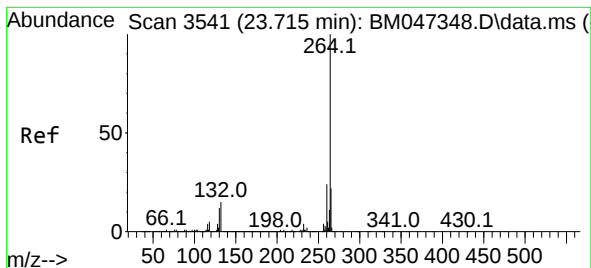
Tgt Ion:228 Resp: 1968269
Ion Ratio Lower Upper
228 100
226 29.5 21.4 32.0
229 21.8 15.8 23.8



#83
Chrysene
Concen: 53.817 ng
RT: 21.068 min Scan# 3091
Delta R.T. 0.006 min
Lab File: BM047371.D
Acq: 27 Aug 2024 19:59

Tgt Ion:228 Resp: 2856914
Ion Ratio Lower Upper
228 100
226 30.2 24.0 36.0
229 21.8 15.9 23.9





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.733 min Scan# 3

Delta R.T. 0.018 min

Lab File: BM047371.D

Acq: 27 Aug 2024 19:59

Instrument :

BNA_M

ClientSampleId :

MOO-SOIL-PILEDL

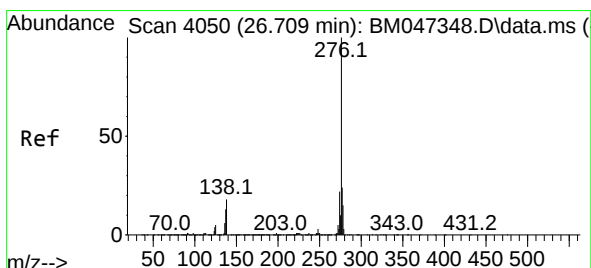
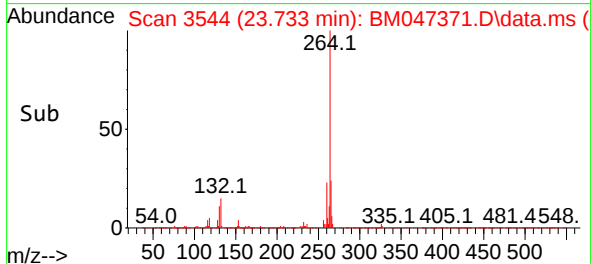
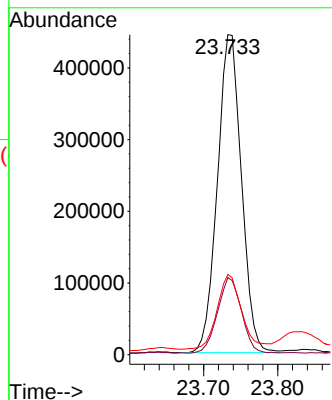
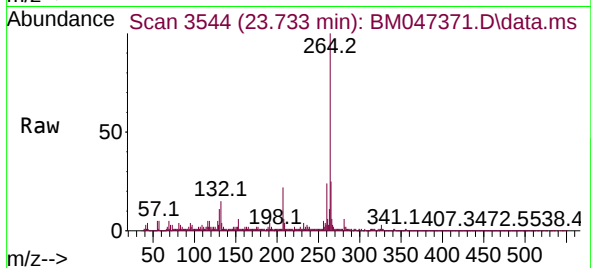
Tgt Ion:264 Resp: 1000104

Ion Ratio Lower Upper

264 100

260 24.1 19.0 28.4

265 25.0 17.8 26.6



#87

Indeno(1,2,3-cd)pyrene

Concen: 18.562 ng

RT: 26.744 min Scan# 4056

Delta R.T. 0.035 min

Lab File: BM047371.D

Acq: 27 Aug 2024 19:59

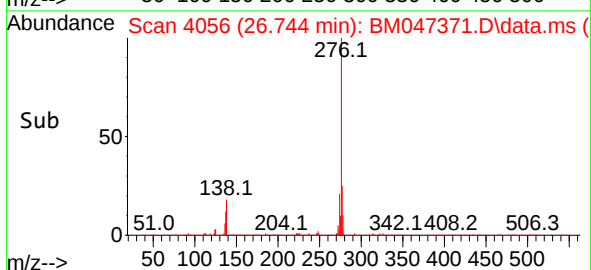
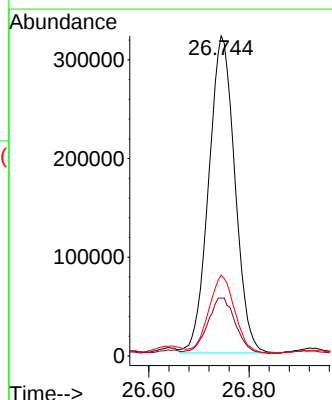
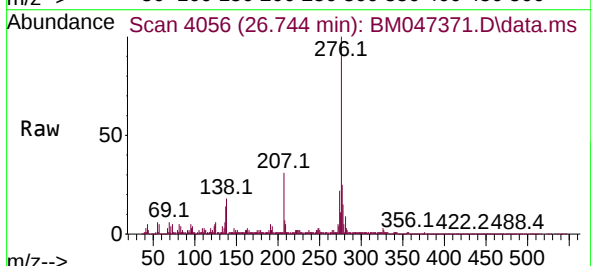
Tgt Ion:276 Resp: 1162123

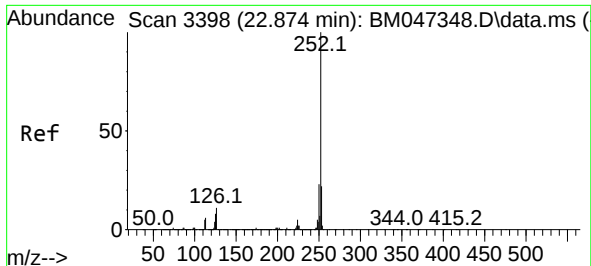
Ion Ratio Lower Upper

276 100

138 18.6 17.7 26.5

277 24.3 20.0 30.0

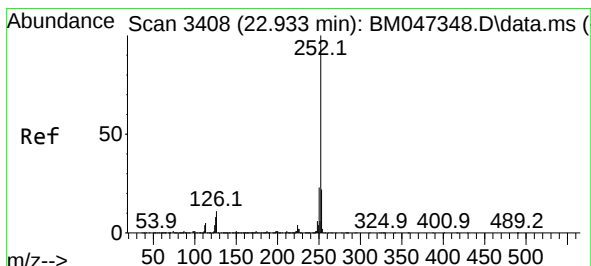
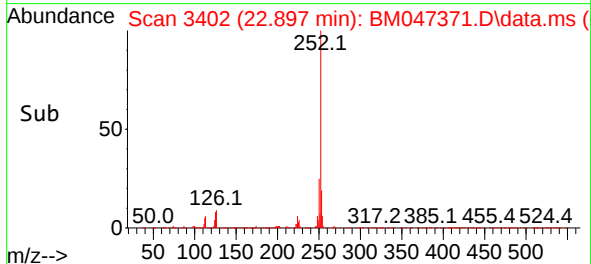
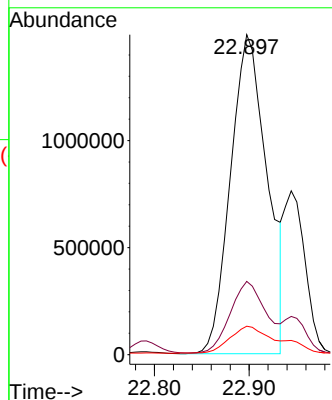
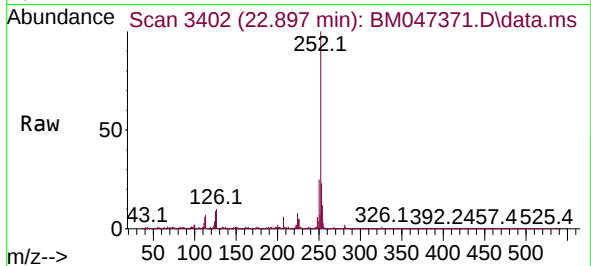




#88
Benzo(b)fluoranthene
Concen: 68.608 ng
RT: 22.897 min Scan# 3402
Delta R.T. 0.024 min
Lab File: BM047371.D
Acq: 27 Aug 2024 19:59

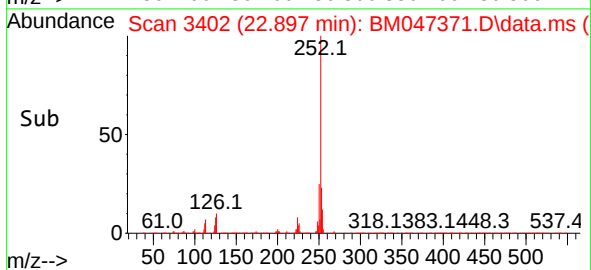
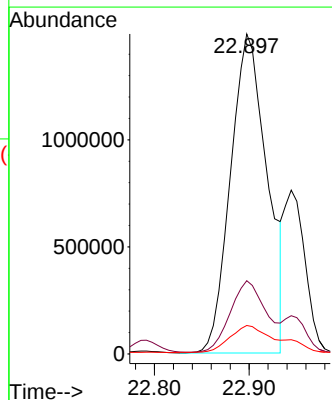
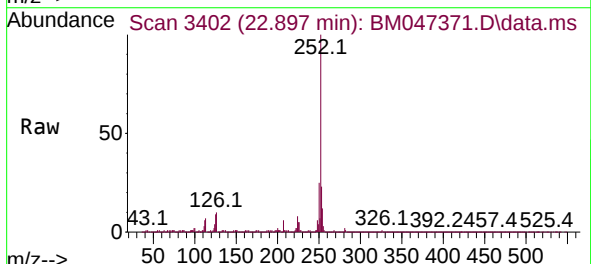
Instrument :
BNA_M
ClientSampleId :
MOO-SOIL-PILEDL

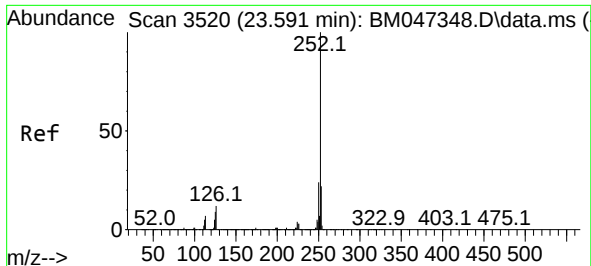
Tgt Ion:252 Resp: 4003130
Ion Ratio Lower Upper
252 100
253 22.9 17.8 26.6
125 8.9 6.6 10.0



#89
Benzo(k)fluoranthene
Concen: 72.373 ng
RT: 22.897 min Scan# 3402
Delta R.T. -0.035 min
Lab File: BM047371.D
Acq: 27 Aug 2024 19:59

Tgt Ion:252 Resp: 4003130
Ion Ratio Lower Upper
252 100
253 22.9 17.5 26.3
125 8.9 6.6 9.8

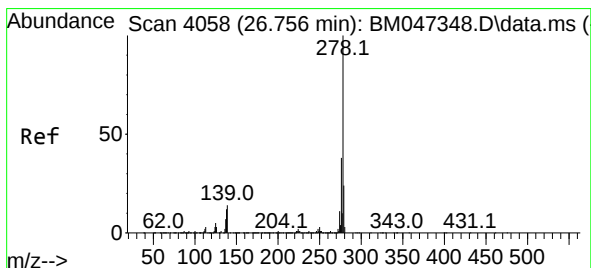
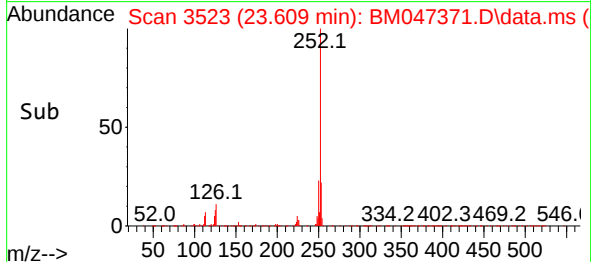
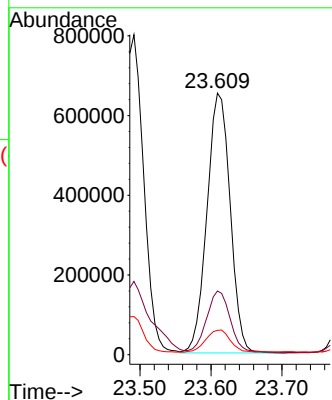
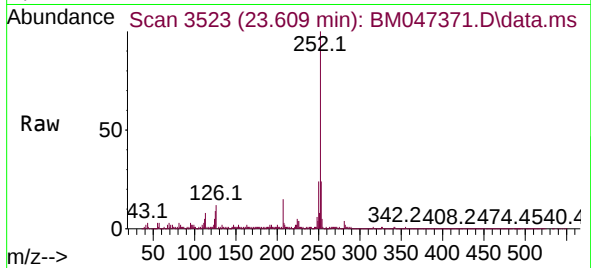




#90
Benzo(a)pyrene
Concen: 29.307 ng
RT: 23.609 min Scan# 31
Delta R.T. 0.018 min
Lab File: BM047371.D
Acq: 27 Aug 2024 19:59

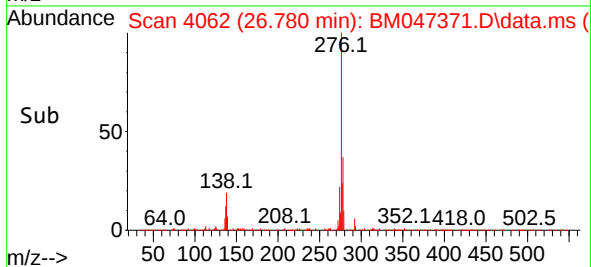
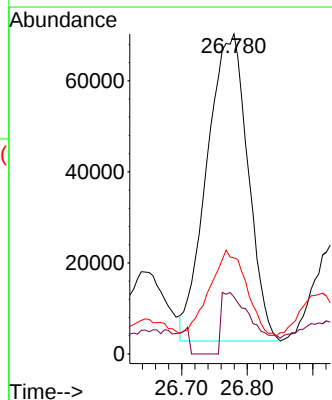
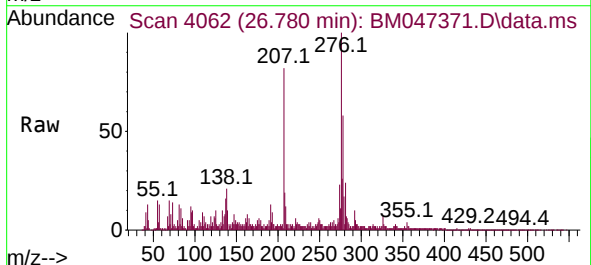
Instrument :
BNA_M
ClientSampleId :
MOO-SOIL-PILEDL

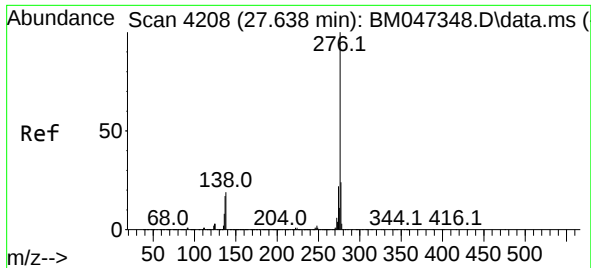
Tgt Ion:252 Resp: 1478765
Ion Ratio Lower Upper
252 100
253 24.3 17.7 26.5
125 9.3 7.4 11.2



#91
Dibenzo(a,h)anthracene
Concen: 5.771 ng
RT: 26.780 min Scan# 4062
Delta R.T. 0.024 min
Lab File: BM047371.D
Acq: 27 Aug 2024 19:59

Tgt Ion:278 Resp: 292675
Ion Ratio Lower Upper
278 100
139 17.8 11.1 16.7#
279 30.0 19.2 28.8#





#92
 Benzo(g,h,i)perylene
 Concen: 19.215 ng
 RT: 27.685 min Scan# 41
 Delta R.T. 0.047 min
 Lab File: BM047371.D
 Acq: 27 Aug 2024 19:59

Instrument :
 BNA_M
 ClientSampleId :
 MOO-SOIL-PILEDL

Tgt Ion:276 Resp: 1013148
 Ion Ratio Lower Upper
 276 100
 277 24.3 19.4 29.0
 138 18.6 15.0 22.6

