

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM110223\  
 Data File : BM042564.D  
 Acq On : 02 Nov 2023 16:49  
 Operator : MA/JU  
 Sample : 04938-09DL 200X  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A-5(0-2)DL

Quant Time: Nov 02 22:41:57 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM103023.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 31 02:55:18 2023  
 Response via : Initial Calibration

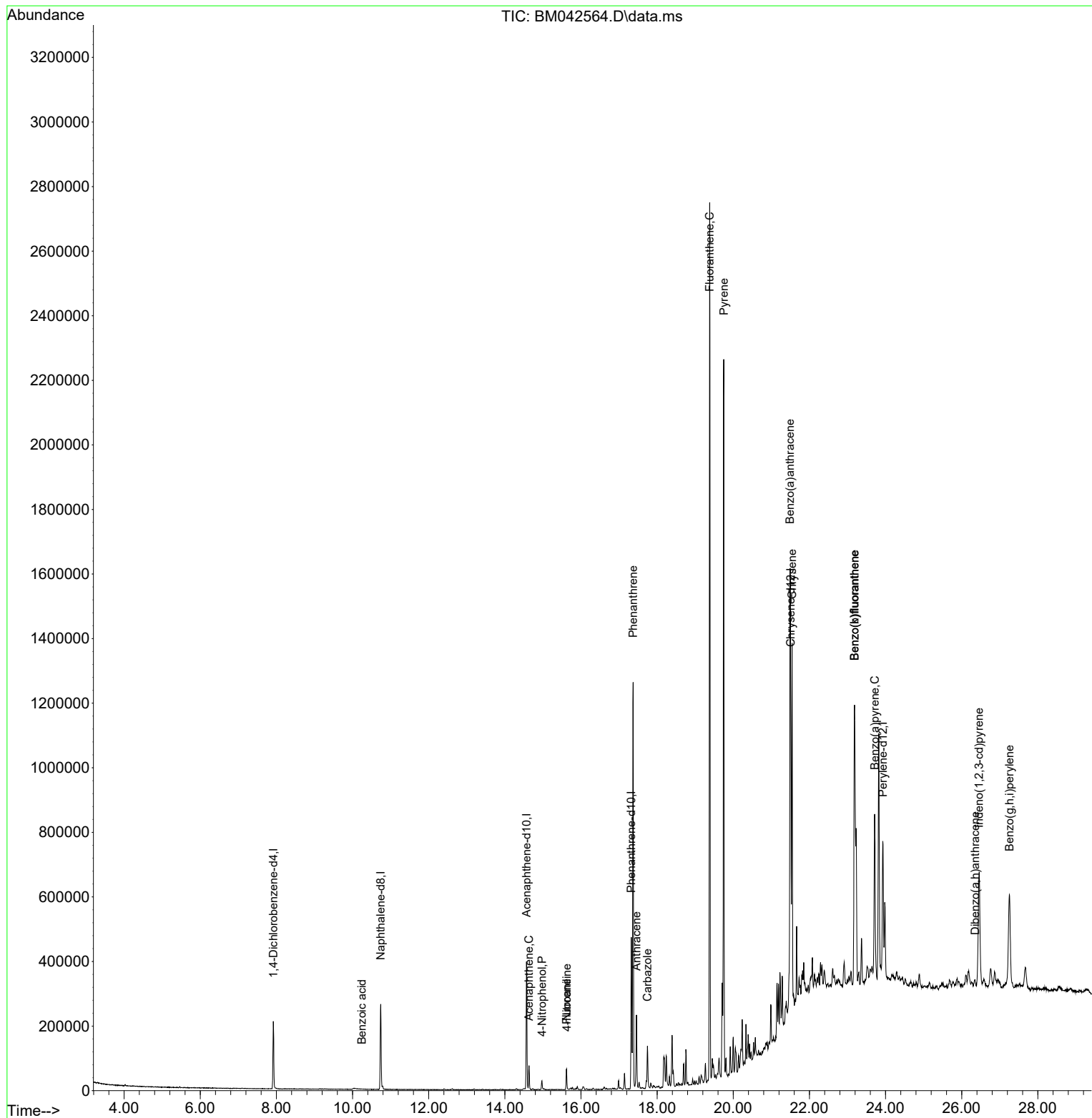
| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.922  | 152  | 52857    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.739 | 136  | 200123   | 20.000 | ng    | -0.01    |
| 39) Acenaphthene-d10        | 14.569 | 164  | 122028   | 20.000 | ng    | -0.01    |
| 64) Phenanthrene-d10        | 17.321 | 188  | 262512   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 21.509 | 240  | 299943   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 23.927 | 264  | 331490   | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.457  | 112  | 789      | 0.241  | ng    | 0.00     |
| 7) Phenol-d6                | 7.098  | 99   | 849      | 0.189  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.134  | 82   | 740      | 0.172  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.074 | 330  | 333      | 0.209  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.198 | 172  | 1753     | 0.193  | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.933 | 244  | 4820     | 0.272  | ng    | -0.01    |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 32) Benzoic acid            | 10.245 | 122  | 275      | 4.217  | ng    | 92       |
| 52) Acenaphthene            | 14.633 | 154  | 24370    | 3.543  | ng    | 98       |
| 56) 4-Nitrophenol           | 14.974 | 139  | 7116     | 10.758 | ng    | # 1      |
| 58) Fluorene                | 15.621 | 166  | 27963    | 3.090  | ng    | 99       |
| 62) 4-Nitroaniline          | 15.627 | 138  | 205      | 5.835  | ng    | # 12     |
| 71) Phenanthrene            | 17.368 | 178  | 684390   | 49.887 | ng    | 99       |
| 72) Anthracene              | 17.457 | 178  | 132417   | 9.745  | ng    | 99       |
| 73) Carbazole               | 17.745 | 167  | 82280    | 7.443  | ng    | 99       |
| 75) Fluoranthene            | 19.380 | 202  | 1484108  | 92.095 | ng    | 98       |
| 78) Pyrene                  | 19.751 | 202  | 1269026  | 61.615 | ng    | 99       |
| 81) Benzo(a)anthracene      | 21.492 | 228  | 640204   | 33.547 | ng    | 99       |
| 83) Chrysene                | 21.545 | 228  | 570219   | 29.415 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 26.456 | 276  | 382901   | 19.408 | ng    | # 91     |
| 88) Benzo(b)fluoranthene    | 23.186 | 252  | 801085   | 43.377 | ng    | 98       |
| 89) Benzo(k)fluoranthene    | 23.186 | 252  | 801085   | 38.927 | ng    | 98       |
| 90) Benzo(a)pyrene          | 23.715 | 252  | 369591   | 20.327 | ng    | 99       |
| 91) Dibenzo(a,h)anthracene  | 26.350 | 278  | 16292    | 4.955  | ng    | 93       |
| 92) Benzo(g,h,i)perylene    | 27.256 | 276  | 382724   | 22.010 | ng    | # 95     |
| -----                       |        |      |          |        |       |          |

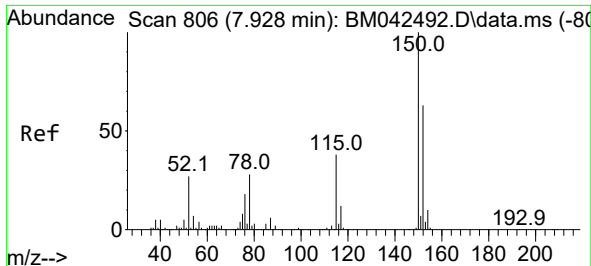
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM110223\  
Data File : BM042564.D  
Acq On : 02 Nov 2023 16:49  
Operator : MA/JU  
Sample : 04938-09DL 200X  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A-5(0-2)DL

Quant Time: Nov 02 22:41:57 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM103023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 31 02:55:18 2023  
Response via : Initial Calibration

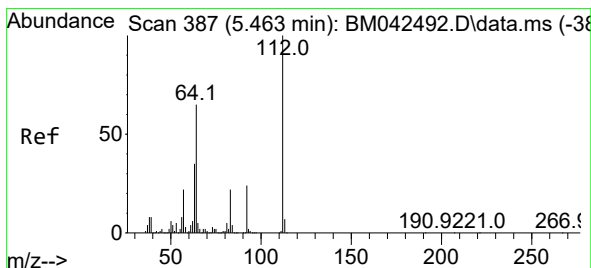
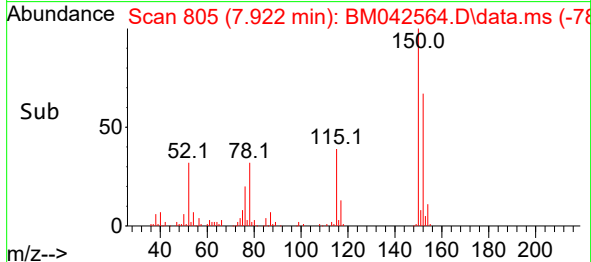
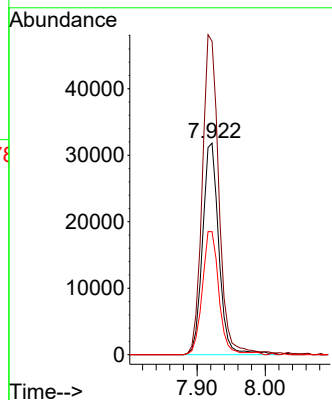
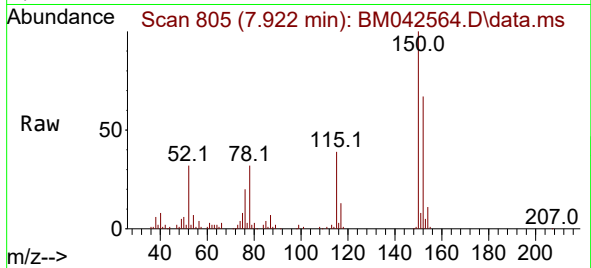




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.922 min Scan# 806  
Delta R.T. -0.006 min  
Lab File: BM042564.D  
Acq: 02 Nov 2023 16:49

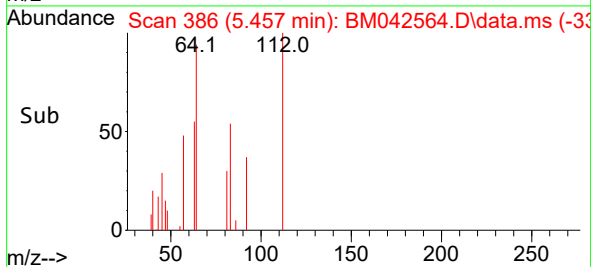
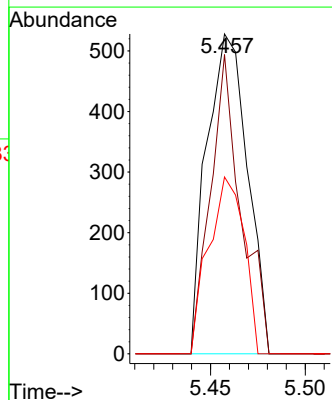
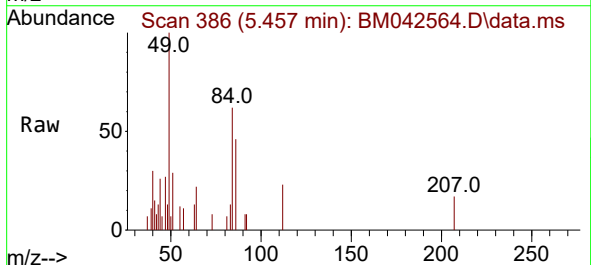
Instrument :  
BNA\_M  
ClientSampleId :  
A-5(0-2)DL

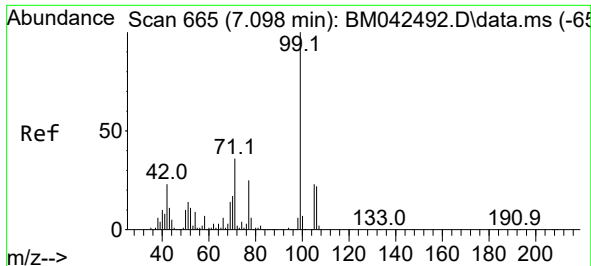
Tgt Ion:152 Resp: 52857  
Ion Ratio Lower Upper  
152 100  
150 148.2 127.4 191.0  
115 58.2 47.9 71.9



#5  
2-Fluorophenol  
Concen: 0.241 ng  
RT: 5.457 min Scan# 386  
Delta R.T. -0.006 min  
Lab File: BM042564.D  
Acq: 02 Nov 2023 16:49

Tgt Ion:112 Resp: 789  
Ion Ratio Lower Upper  
112 100  
64 93.6 52.1 78.1#  
63 55.3 28.3 42.5#

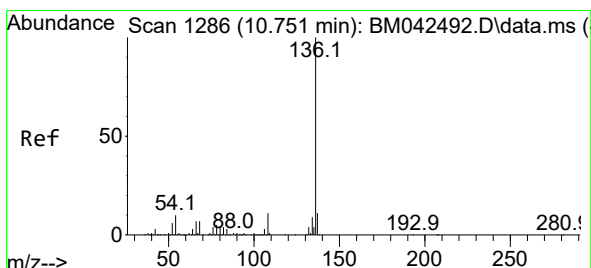
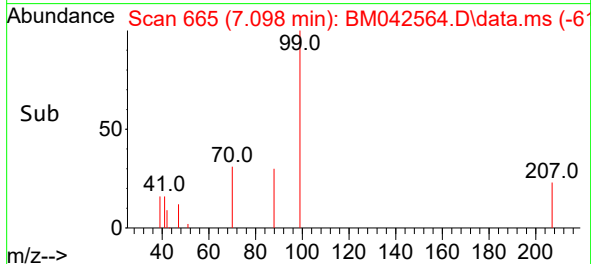
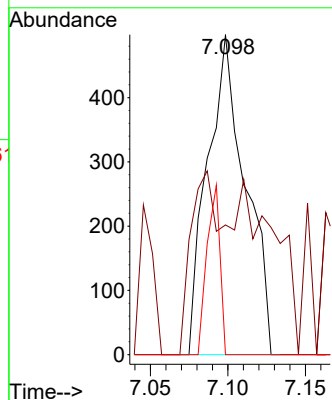
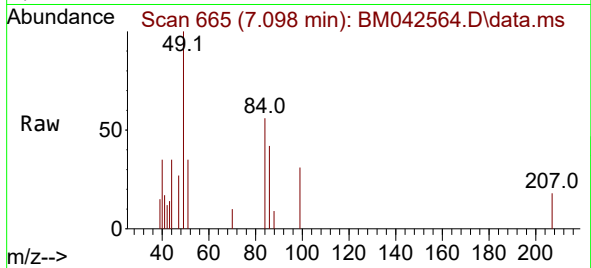




#7  
Phenol-d6  
Concen: 0.189 ng  
RT: 7.098 min Scan# 665  
Delta R.T. -0.000 min  
Lab File: BM042564.D  
Acq: 02 Nov 2023 16:49

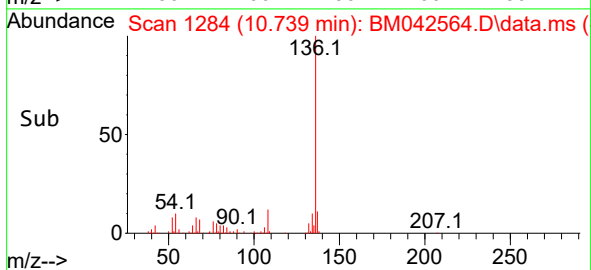
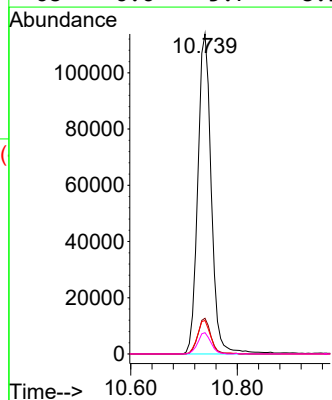
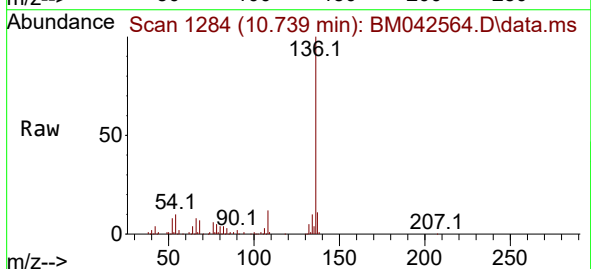
Instrument :  
BNA\_M  
ClientSampleId :  
A-5(0-2)DL

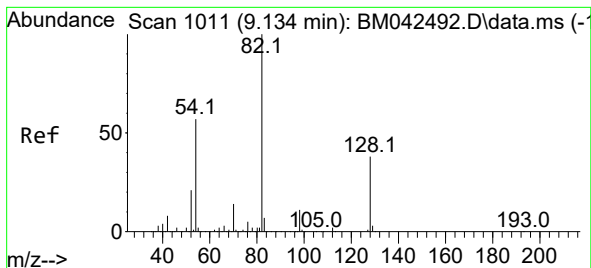
Tgt Ion: 99 Resp: 849  
Ion Ratio Lower Upper  
99 100  
42 40.6 18.7 28.1#  
71 0.0 29.1 43.7#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.739 min Scan# 1284  
Delta R.T. -0.012 min  
Lab File: BM042564.D  
Acq: 02 Nov 2023 16:49

Tgt Ion: 136 Resp: 200123  
Ion Ratio Lower Upper  
136 100  
137 11.2 9.0 13.6  
54 10.5 8.0 12.0  
68 6.6 5.7 8.5





#23

Nitrobenzene-d5

Concen: 0.172 ng

RT: 9.134 min Scan# 110

Delta R.T. -0.000 min

Lab File: BM042564.D

Acq: 02 Nov 2023 16:49

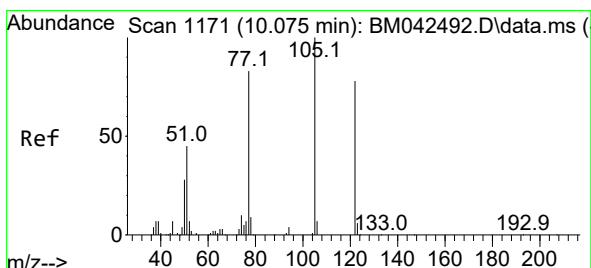
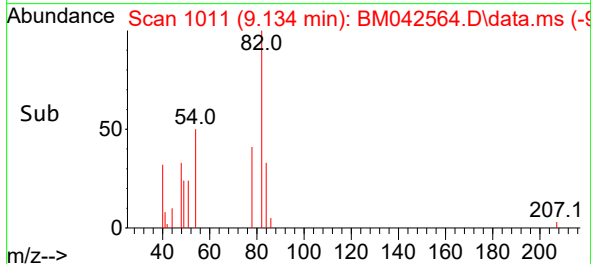
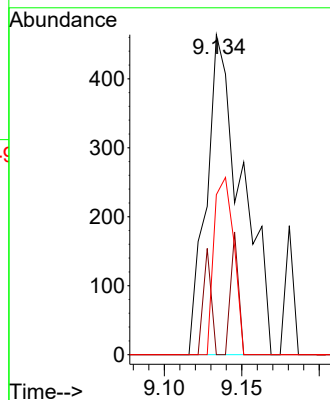
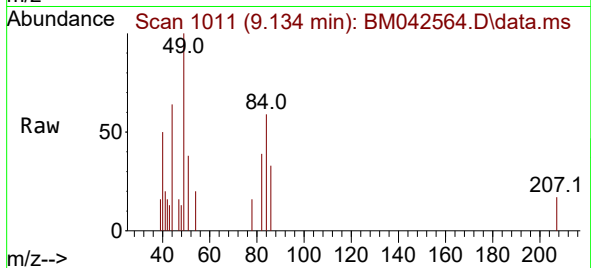
Instrument :

BNA\_M

ClientSampleId :

A-5(0-2)DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 740   |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 0.0   | 30.7  | 46.1# |
| 54       | 50.0  | 45.3  | 67.9  |



#32

Benzoic acid

Concen: 4.217 ng

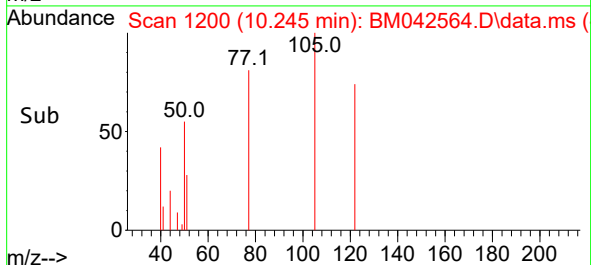
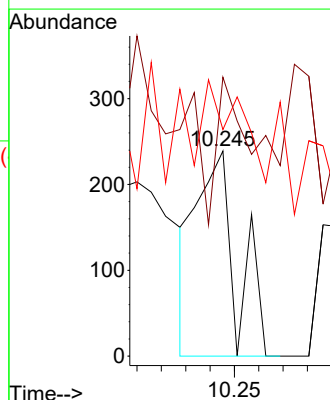
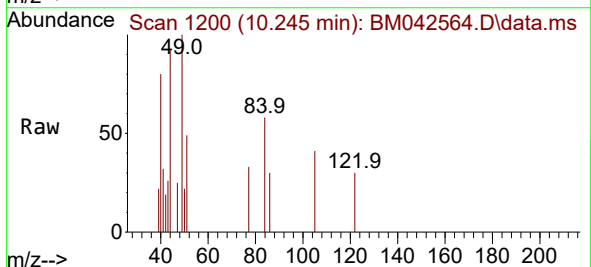
RT: 10.245 min Scan# 1200

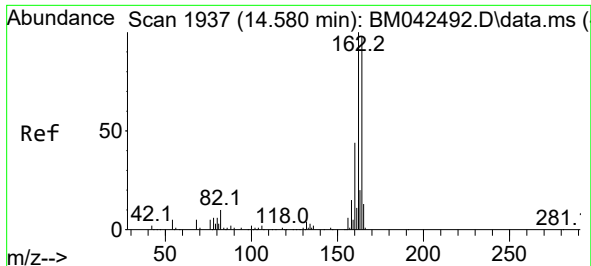
Delta R.T. 0.170 min

Lab File: BM042564.D

Acq: 02 Nov 2023 16:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 122   | Resp: | 275   |
| Ion      | Ratio | Lower | Upper |
| 122      | 100   |       |       |
| 105      | 136.0 | 105.2 | 145.2 |
| 77       | 110.5 | 84.8  | 124.8 |

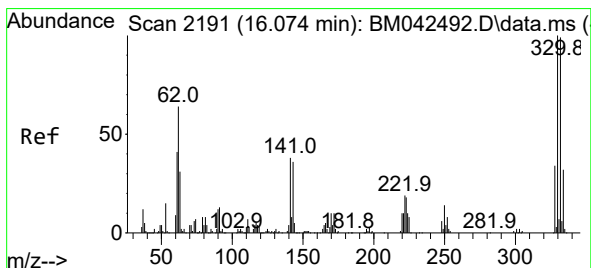
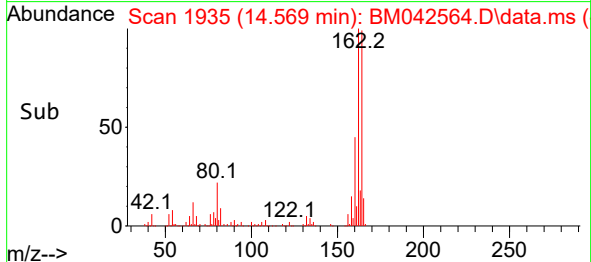
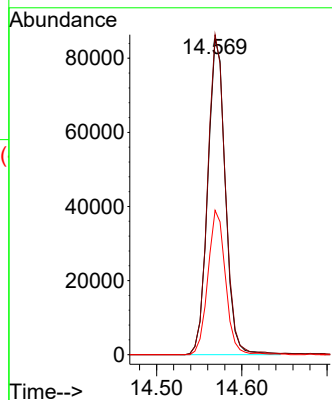
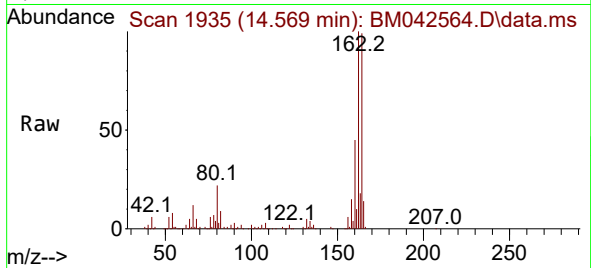




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.569 min Scan# 1935  
Delta R.T. -0.011 min  
Lab File: BM042564.D  
Acq: 02 Nov 2023 16:49

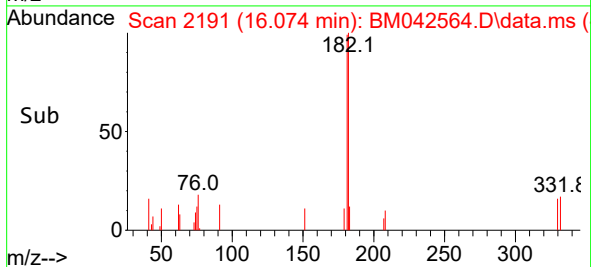
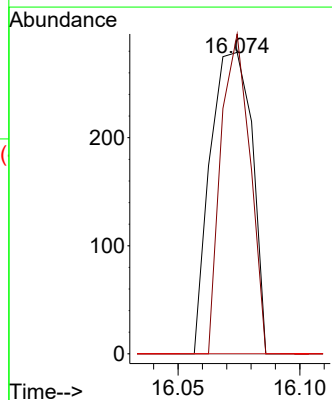
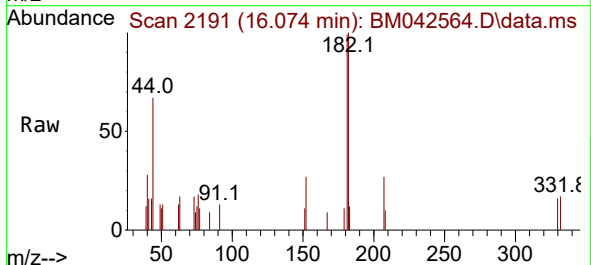
Instrument :  
BNA\_M  
ClientSampleId :  
A-5(0-2)DL

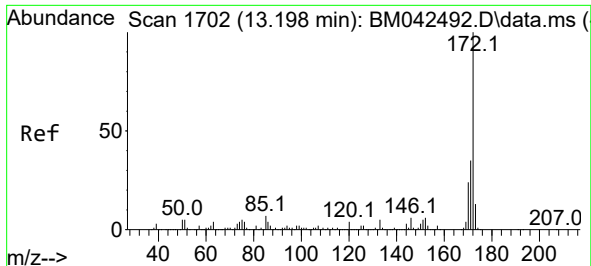
Tgt Ion:164 Resp: 122028  
Ion Ratio Lower Upper  
164 100  
162 101.2 81.6 122.4  
160 45.7 36.2 54.4



#42  
2,4,6-Tribromophenol  
Concen: 0.209 ng  
RT: 16.074 min Scan# 2191  
Delta R.T. 0.000 min  
Lab File: BM042564.D  
Acq: 02 Nov 2023 16:49

Tgt Ion:330 Resp: 333  
Ion Ratio Lower Upper  
330 100  
332 73.6 78.8 118.2#  
141 0.0 31.1 46.7#

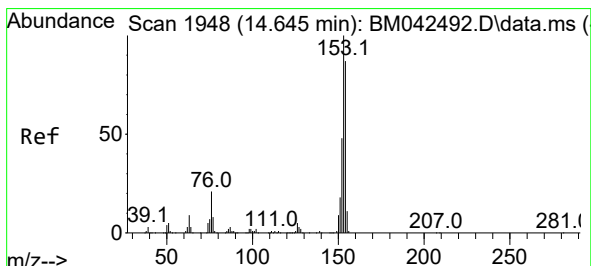
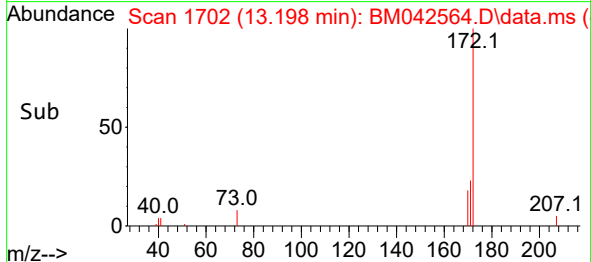
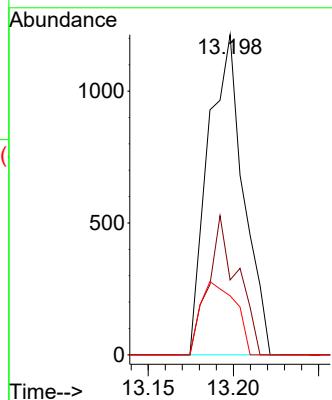
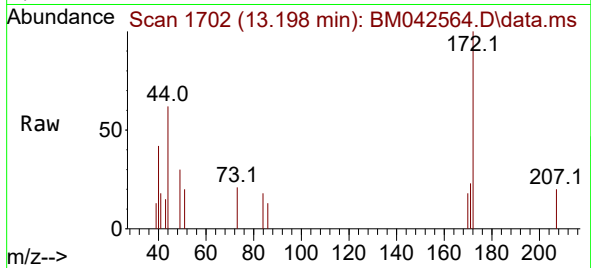




#45  
2-Fluorobiphenyl  
Concen: 0.193 ng  
RT: 13.198 min Scan# 1702  
Delta R.T. -0.000 min  
Lab File: BM042564.D  
Acq: 02 Nov 2023 16:49

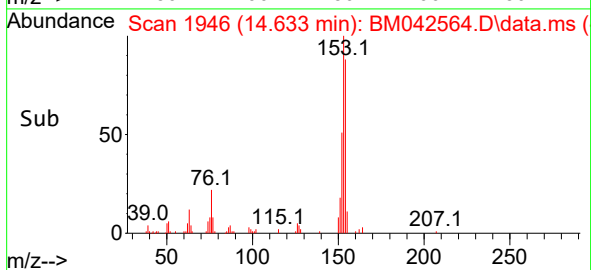
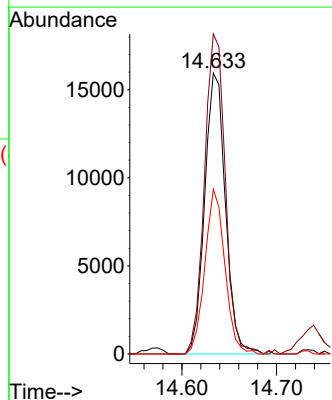
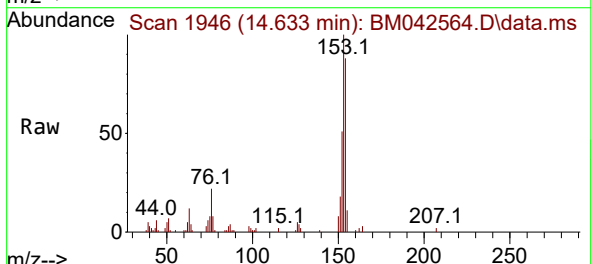
Instrument :  
BNA\_M  
ClientSampleId :  
A-5(0-2)DL

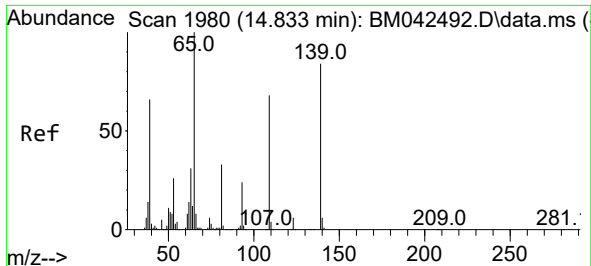
Tgt Ion:172 Resp: 1753  
Ion Ratio Lower Upper  
172 100  
171 23.4 28.2 42.2#  
170 18.5 19.0 28.4#



#52  
Acenaphthene  
Concen: 3.543 ng  
RT: 14.633 min Scan# 1946  
Delta R.T. -0.012 min  
Lab File: BM042564.D  
Acq: 02 Nov 2023 16:49

Tgt Ion:154 Resp: 24370  
Ion Ratio Lower Upper  
154 100  
153 113.9 92.0 138.0  
152 58.6 44.0 66.0

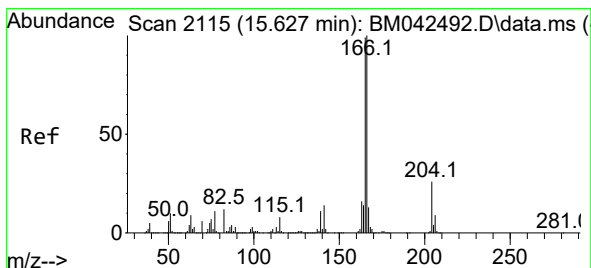
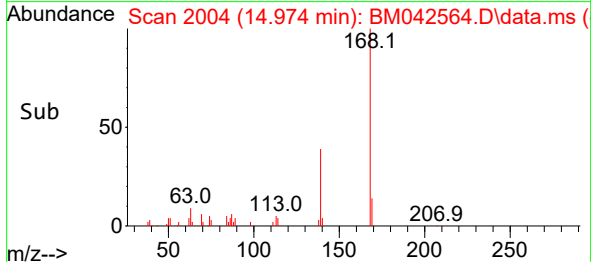
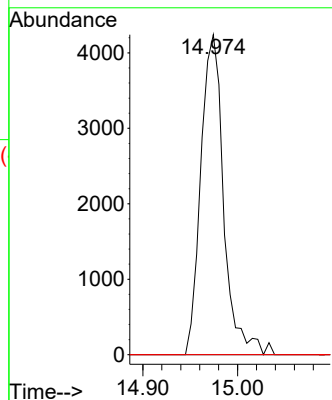
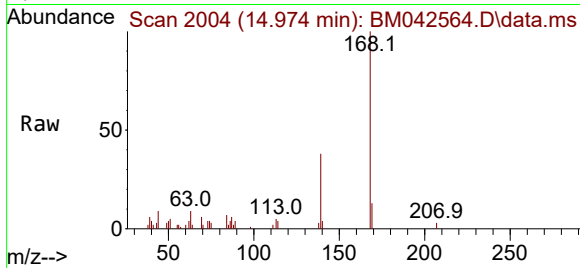




#56  
4-Nitrophenol  
Concen: 10.758 ng  
RT: 14.974 min Scan# 20  
Delta R.T. 0.141 min  
Lab File: BM042564.D  
Acq: 02 Nov 2023 16:49

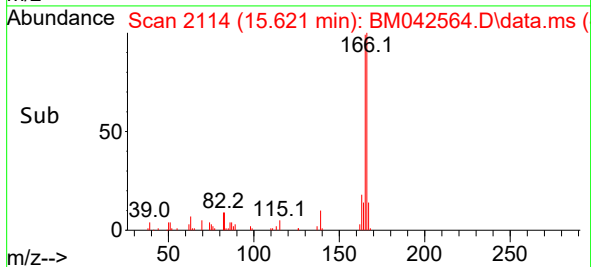
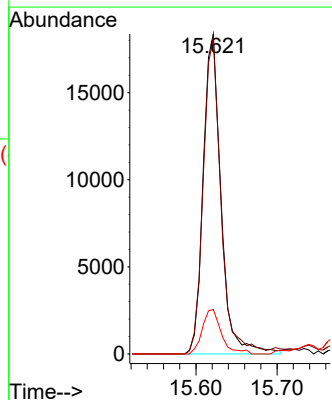
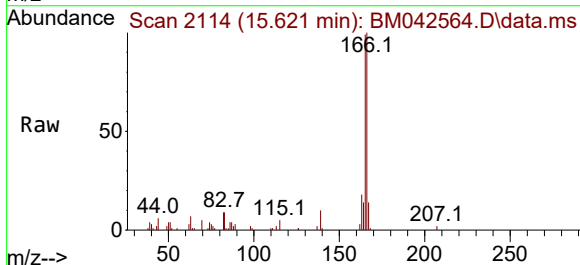
Instrument :  
BNA\_M  
ClientSampleId :  
A-5(0-2)DL

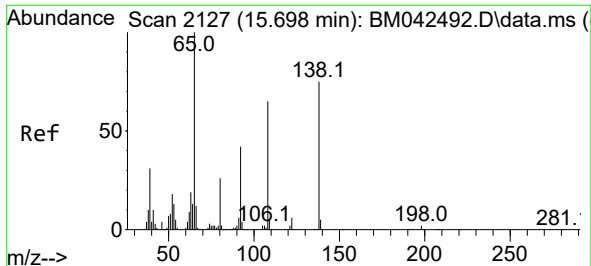
Tgt Ion:139 Resp: 7116  
Ion Ratio Lower Upper  
139 100  
109 0.0 61.3 101.3#  
65 0.0 100.2 140.2#



#58  
Fluorene  
Concen: 3.090 ng  
RT: 15.621 min Scan# 2114  
Delta R.T. -0.006 min  
Lab File: BM042564.D  
Acq: 02 Nov 2023 16:49

Tgt Ion:166 Resp: 27963  
Ion Ratio Lower Upper  
166 100  
165 98.6 79.3 118.9  
167 13.9 10.5 15.7

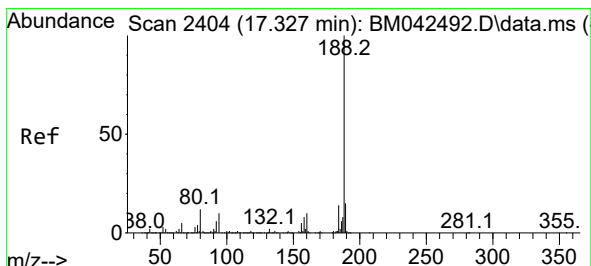
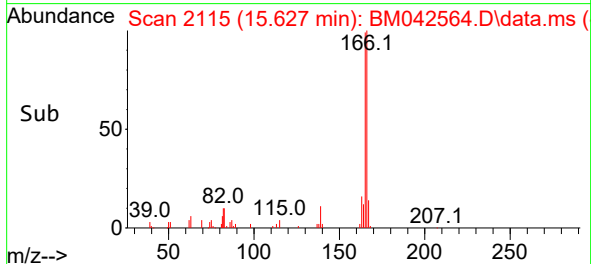
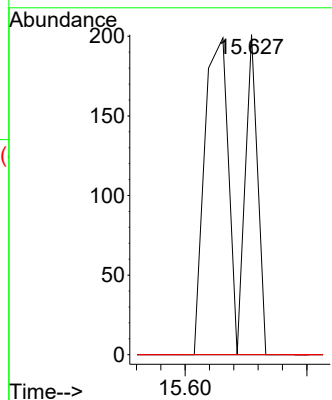
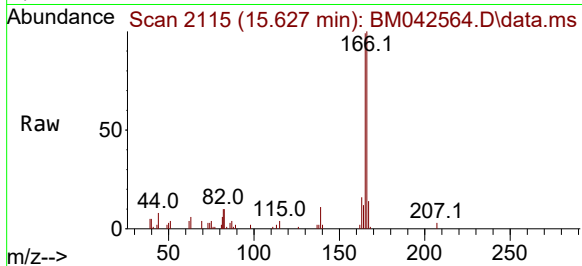




#62  
4-Nitroaniline  
Concen: 5.835 ng  
RT: 15.627 min Scan# 2115  
Delta R.T. -0.071 min  
Lab File: BM042564.D  
Acq: 02 Nov 2023 16:49

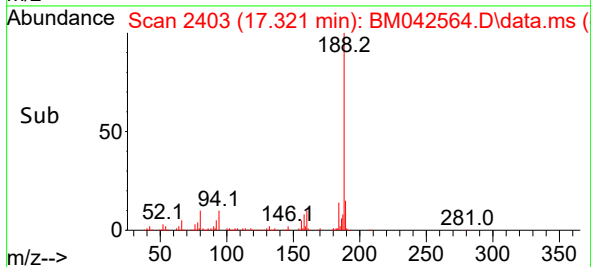
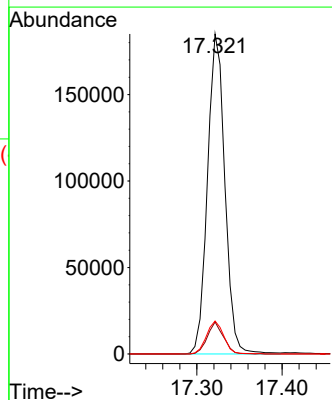
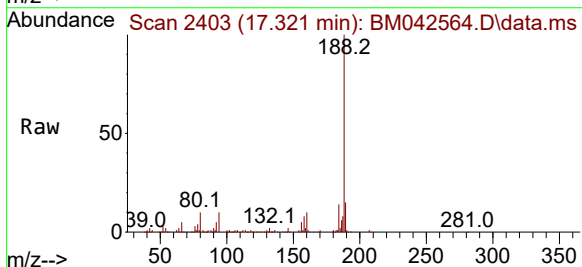
Instrument :  
BNA\_M  
ClientSampleId :  
A-5(0-2)DL

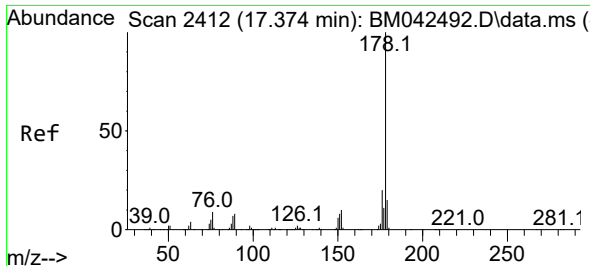
Tgt Ion:138 Resp: 205  
Ion Ratio Lower Upper  
138 100  
92 0.0 37.0 77.0#  
108 0.0 67.2 107.2#



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.321 min Scan# 2403  
Delta R.T. -0.006 min  
Lab File: BM042564.D  
Acq: 02 Nov 2023 16:49

Tgt Ion:188 Resp: 262512  
Ion Ratio Lower Upper  
188 100  
94 10.0 8.2 12.4  
80 10.3 9.4 14.2

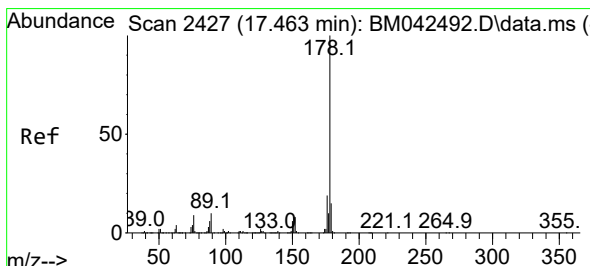
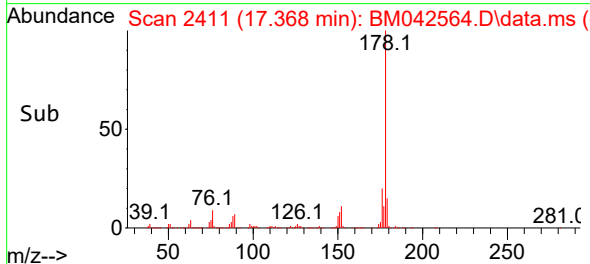
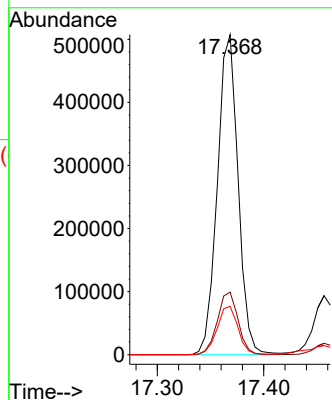
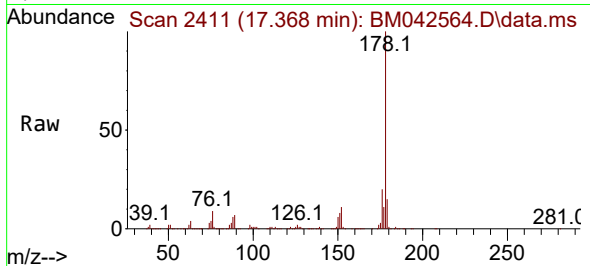




#71  
Phenanthrene  
Concen: 49.887 ng  
RT: 17.368 min Scan# 2412  
Delta R.T. -0.006 min  
Lab File: BM042564.D  
Acq: 02 Nov 2023 16:49

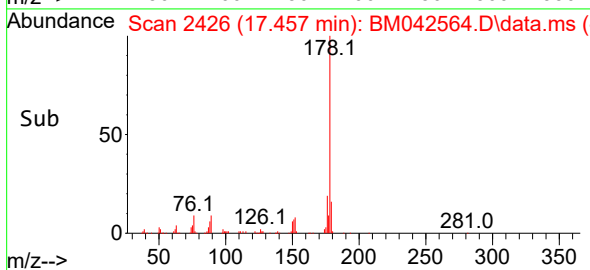
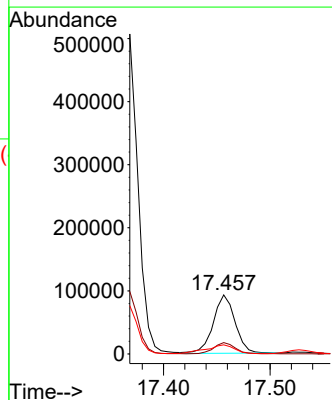
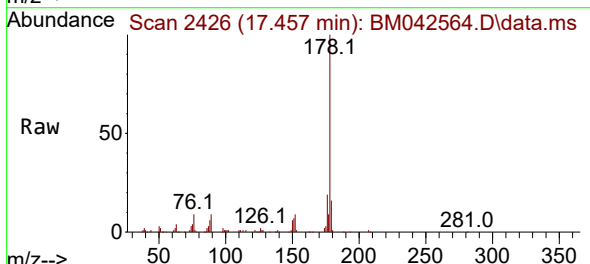
Instrument :  
BNA\_M  
ClientSampleId :  
A-5(0-2)DL

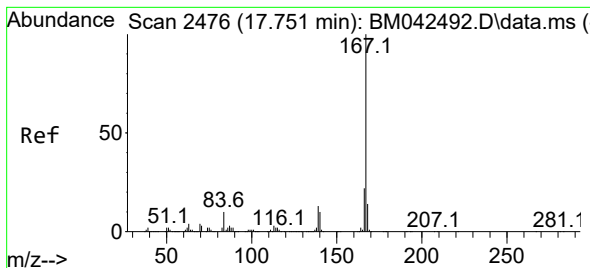
Tgt Ion:178 Resp: 684390  
Ion Ratio Lower Upper  
178 100  
176 19.5 15.8 23.8  
179 15.1 12.2 18.4



#72  
Anthracene  
Concen: 9.745 ng  
RT: 17.457 min Scan# 2426  
Delta R.T. -0.006 min  
Lab File: BM042564.D  
Acq: 02 Nov 2023 16:49

Tgt Ion:178 Resp: 132417  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.2 22.8  
179 15.5 12.3 18.5





#73

Carbazole

Concen: 7.443 ng

RT: 17.745 min Scan# 24

Delta R.T. -0.006 min

Lab File: BM042564.D

Acq: 02 Nov 2023 16:49

Instrument :

BNA\_M

ClientSampleId :

A-5(0-2)DL

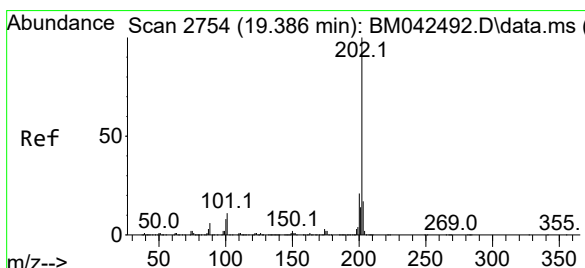
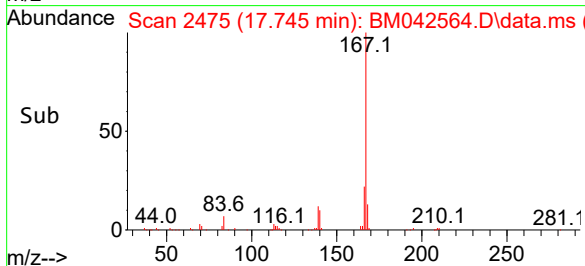
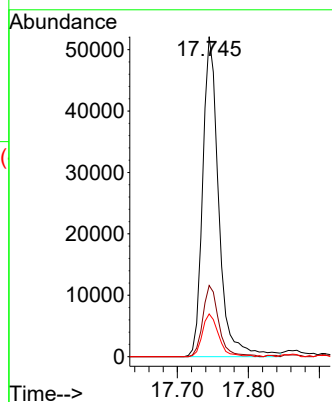
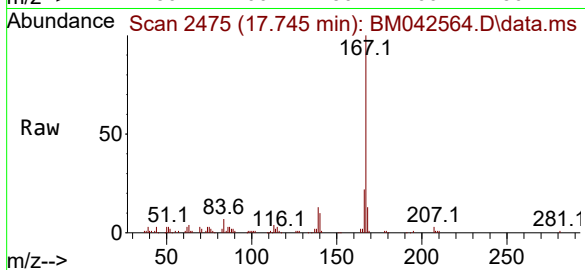
Tgt Ion:167 Resp: 82280

Ion Ratio Lower Upper

167 100

166 22.2 17.4 26.2

139 13.3 10.5 15.7



#75

Fluoranthene

Concen: 92.095 ng

RT: 19.380 min Scan# 2753

Delta R.T. -0.006 min

Lab File: BM042564.D

Acq: 02 Nov 2023 16:49

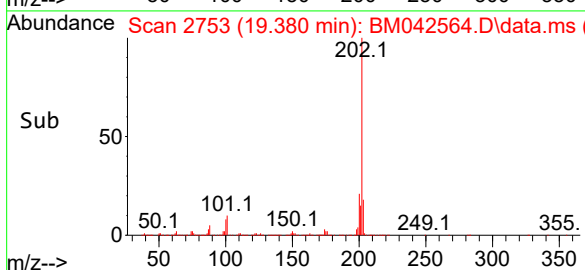
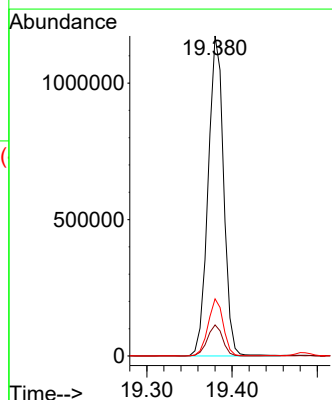
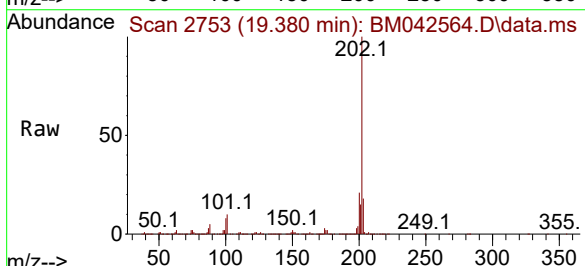
Tgt Ion:202 Resp: 1484108

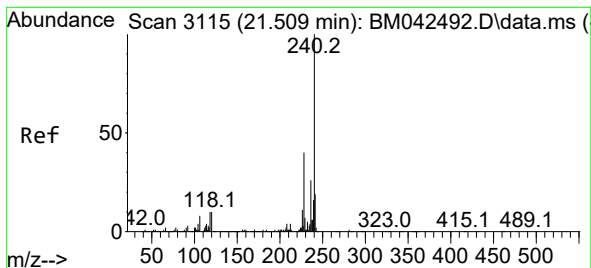
Ion Ratio Lower Upper

202 100

101 9.7 0.0 30.5

203 17.8 0.0 37.0





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.509 min Scan# 3115

Delta R.T. -0.000 min

Lab File: BM042564.D

Acq: 02 Nov 2023 16:49

Instrument :

BNA\_M

ClientSampleId :

A-5(0-2)DL

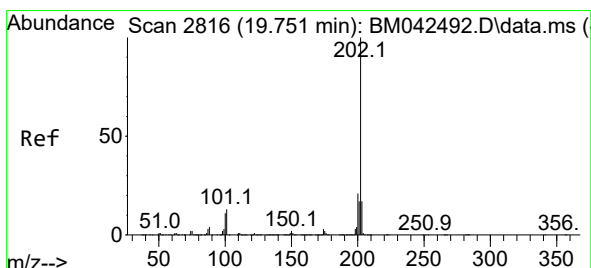
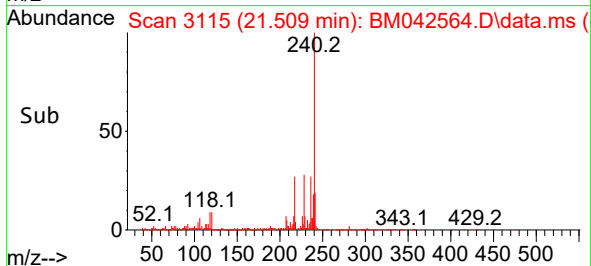
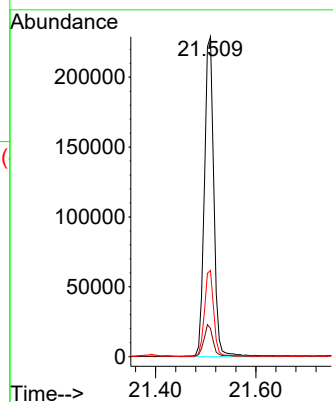
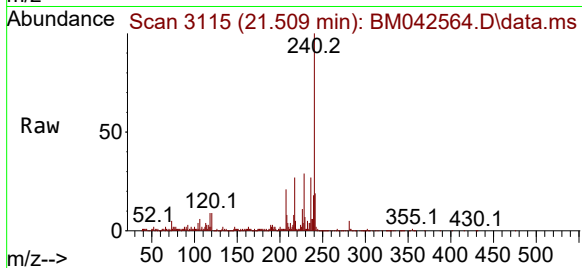
Tgt Ion:240 Resp: 299943

Ion Ratio Lower Upper

240 100

120 8.8 8.3 12.5

236 27.0 20.8 31.2



#78

Pyrene

Concen: 61.615 ng

RT: 19.751 min Scan# 2816

Delta R.T. -0.000 min

Lab File: BM042564.D

Acq: 02 Nov 2023 16:49

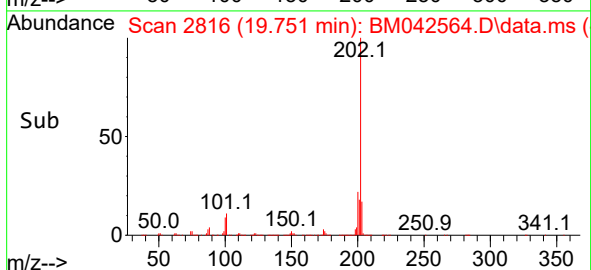
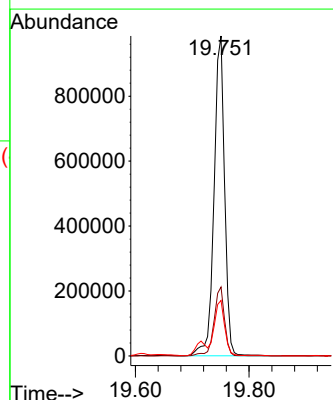
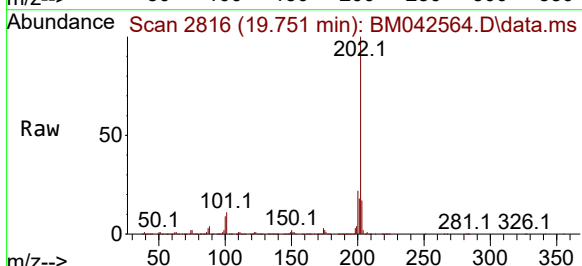
Tgt Ion:202 Resp: 1269026

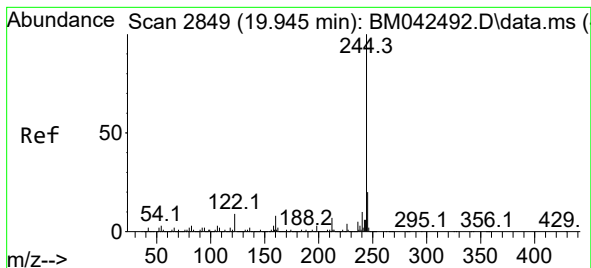
Ion Ratio Lower Upper

202 100

200 21.6 16.9 25.3

203 17.4 13.7 20.5





#79

Terphenyl-d14

Concen: 0.272 ng

RT: 19.933 min Scan# 21

Delta R.T. -0.012 min

Lab File: BM042564.D

Acq: 02 Nov 2023 16:49

Instrument :

BNA\_M

ClientSampleId :

A-5(0-2)DL

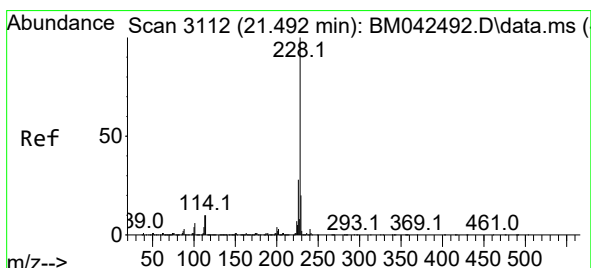
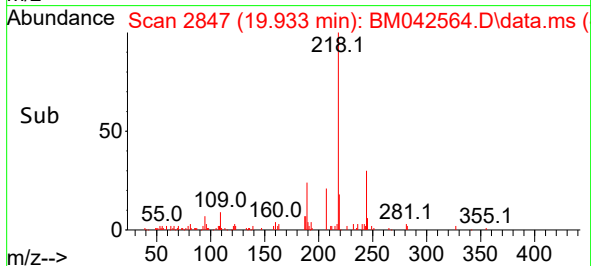
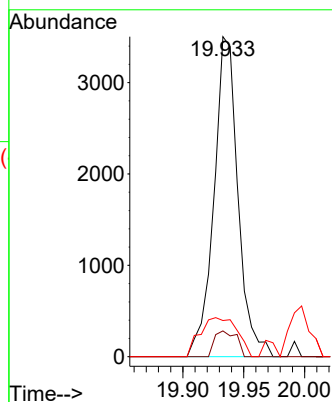
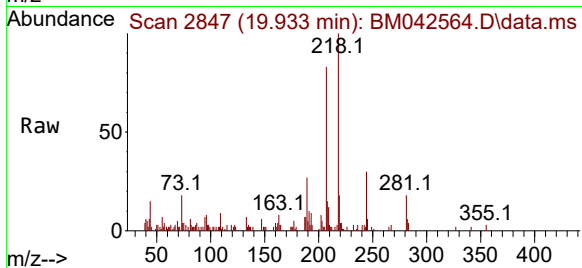
Tgt Ion:244 Resp: 4820

Ion Ratio Lower Upper

244 100

212 8.1 5.4 8.2

122 11.3 7.2 10.8#



#81

Benzo(a)anthracene

Concen: 33.547 ng

RT: 21.492 min Scan# 3112

Delta R.T. -0.000 min

Lab File: BM042564.D

Acq: 02 Nov 2023 16:49

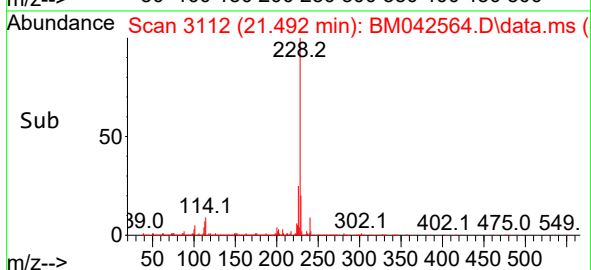
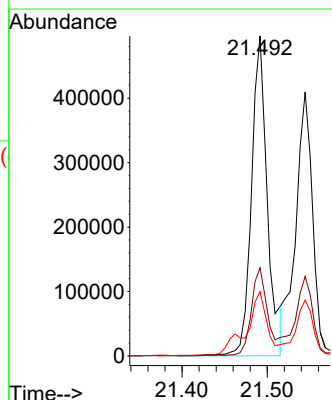
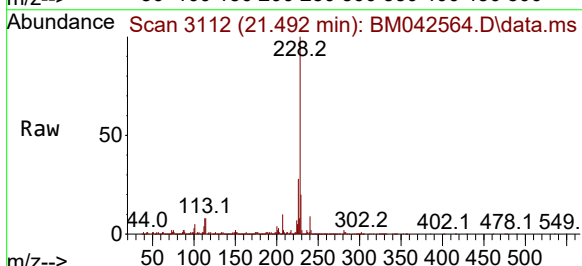
Tgt Ion:228 Resp: 640204

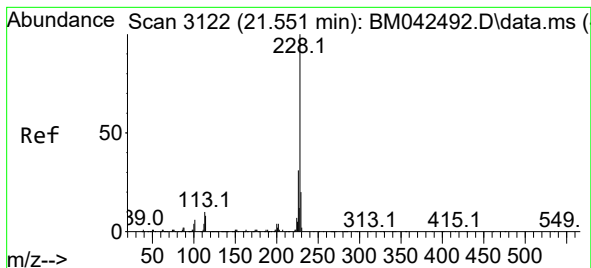
Ion Ratio Lower Upper

228 100

226 27.6 22.3 33.5

229 20.1 15.8 23.8





#83

Chrysene

Concen: 29.415 ng

RT: 21.545 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM042564.D

Acq: 02 Nov 2023 16:49

Instrument :

BNA\_M

ClientSampleId :

A-5(0-2)DL

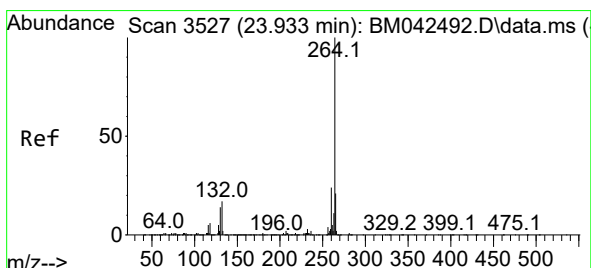
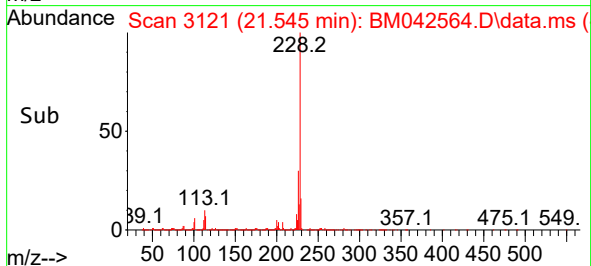
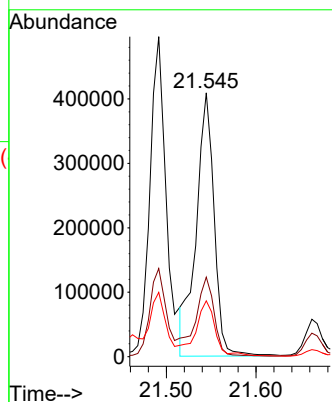
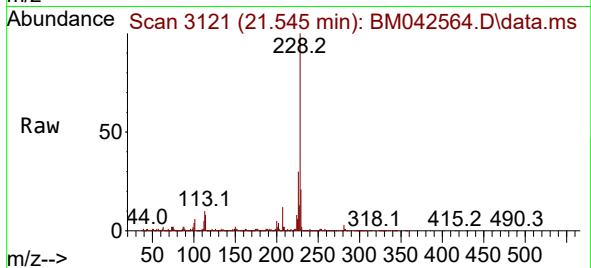
Tgt Ion:228 Resp: 570219

Ion Ratio Lower Upper

228 100

226 30.1 24.4 36.6

229 21.2 15.7 23.5



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.927 min Scan# 3526

Delta R.T. -0.006 min

Lab File: BM042564.D

Acq: 02 Nov 2023 16:49

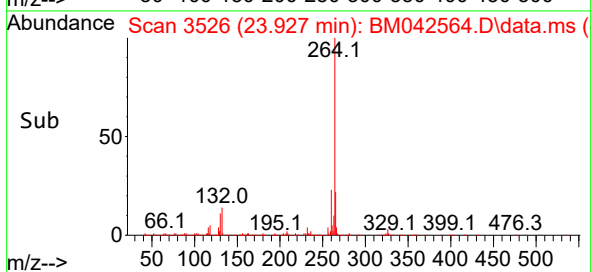
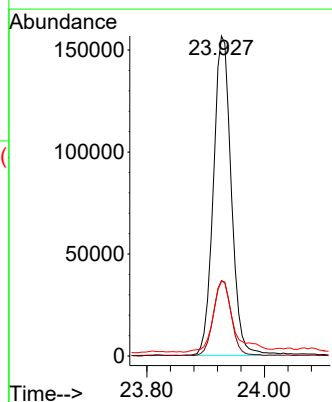
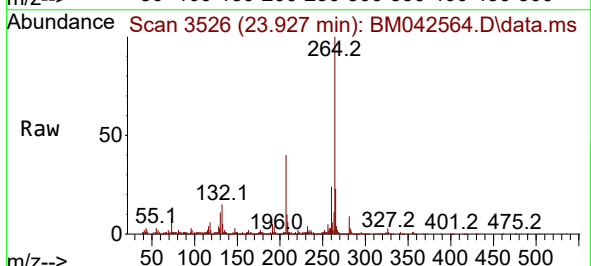
Tgt Ion:264 Resp: 331490

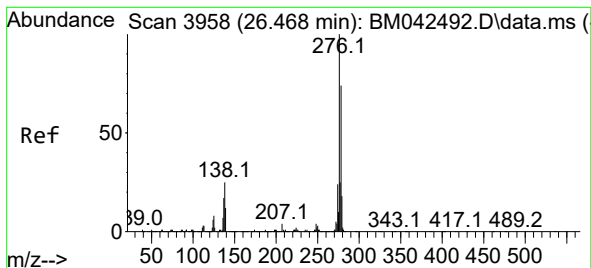
Ion Ratio Lower Upper

264 100

260 23.5 19.0 28.4

265 23.3 18.7 28.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 19.408 ng

RT: 26.456 min Scan# 3956

Delta R.T. -0.012 min

Lab File: BM042564.D

Acq: 02 Nov 2023 16:49

Instrument :

BNA\_M

ClientSampleId :

A-5(0-2)DL

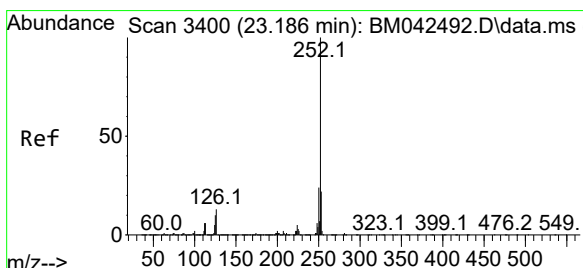
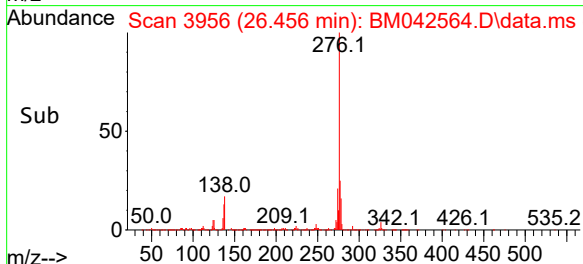
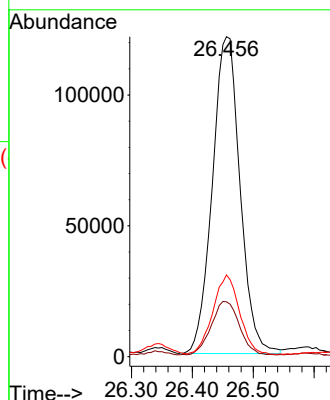
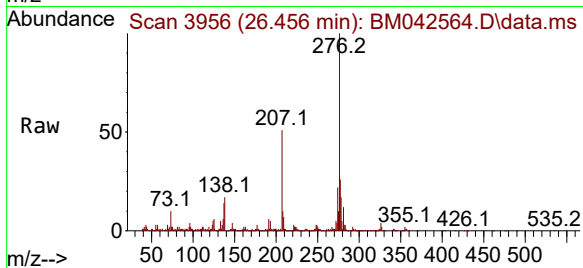
Tgt Ion:276 Resp: 382901

Ion Ratio Lower Upper

276 100

138 17.5 20.6 31.0#

277 24.3 19.5 29.3



#88

Benzo(b)fluoranthene

Concen: 43.377 ng

RT: 23.186 min Scan# 3400

Delta R.T. -0.000 min

Lab File: BM042564.D

Acq: 02 Nov 2023 16:49

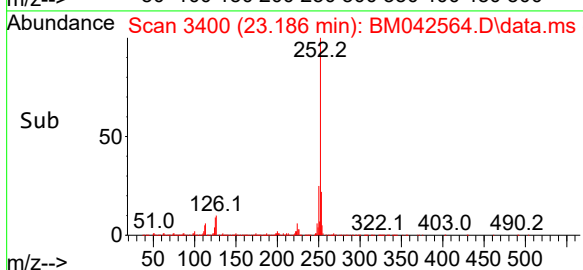
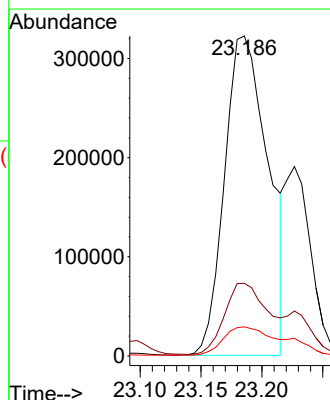
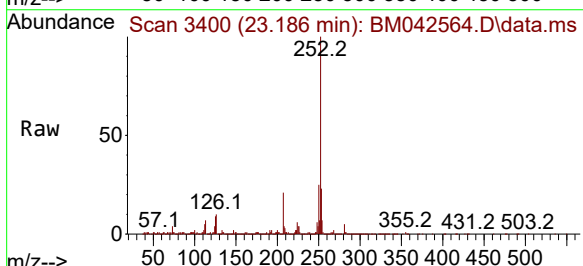
Tgt Ion:252 Resp: 801085

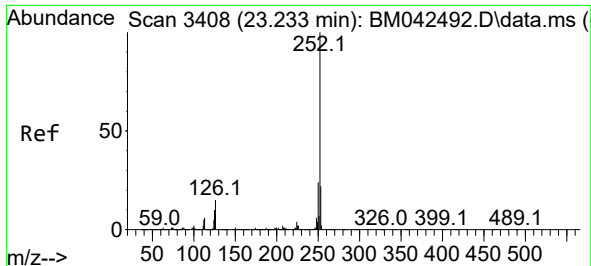
Ion Ratio Lower Upper

252 100

253 22.7 17.5 26.3

125 9.1 7.8 11.6

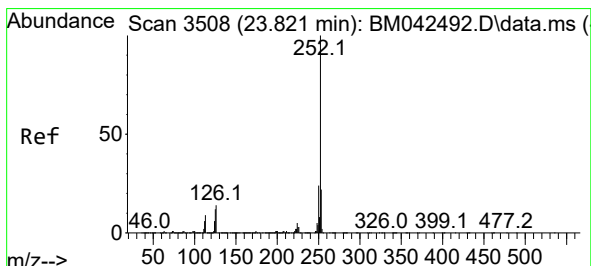
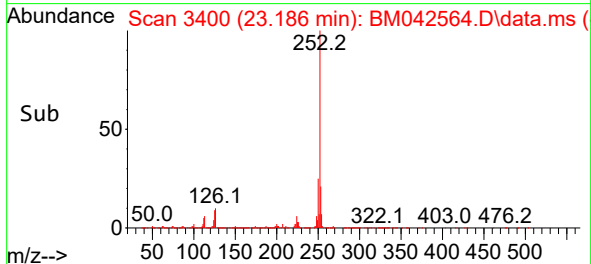
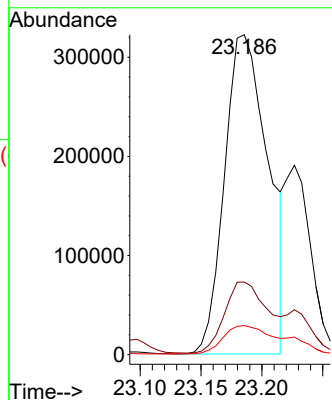
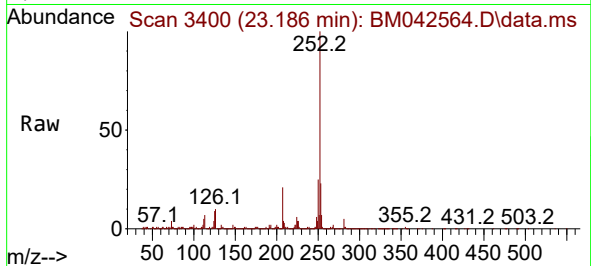




#89  
Benzo(k)fluoranthene  
Concen: 38.927 ng  
RT: 23.186 min Scan# 34  
Delta R.T. -0.047 min  
Lab File: BM042564.D  
Acq: 02 Nov 2023 16:49

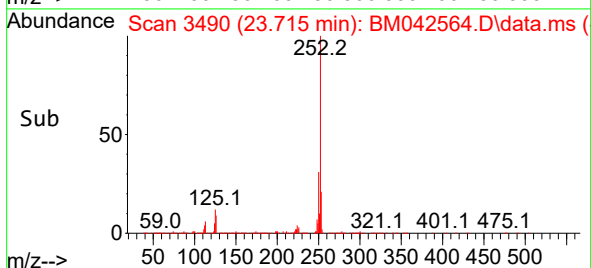
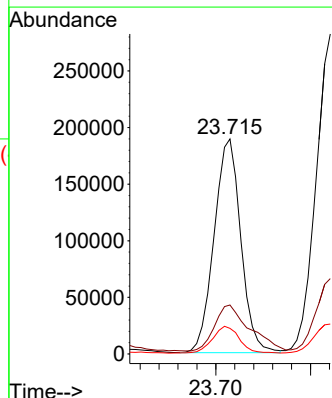
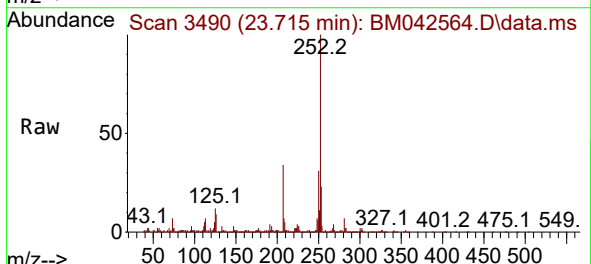
Instrument :  
BNA\_M  
ClientSampleId :  
A-5(0-2)DL

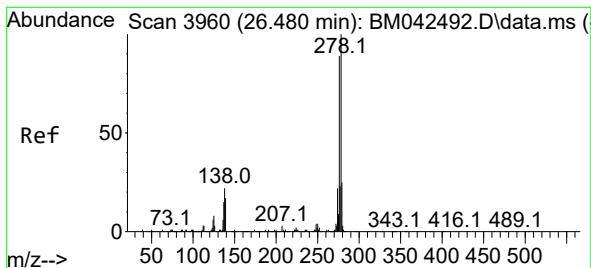
Tgt Ion:252 Resp: 801085  
Ion Ratio Lower Upper  
252 100  
253 22.7 17.6 26.4  
125 9.1 8.2 12.4



#90  
Benzo(a)pyrene  
Concen: 20.327 ng  
RT: 23.715 min Scan# 3490  
Delta R.T. -0.106 min  
Lab File: BM042564.D  
Acq: 02 Nov 2023 16:49

Tgt Ion:252 Resp: 369591  
Ion Ratio Lower Upper  
252 100  
253 22.8 17.5 26.3  
125 11.9 9.4 14.2





#91

Dibenzo(a,h)anthracene

Concen: 4.955 ng

RT: 26.350 min Scan# 3938

Delta R.T. -0.130 min

Lab File: BM042564.D

Acq: 02 Nov 2023 16:49

Instrument :

BNA\_M

ClientSampleId :

A-5(0-2)DL

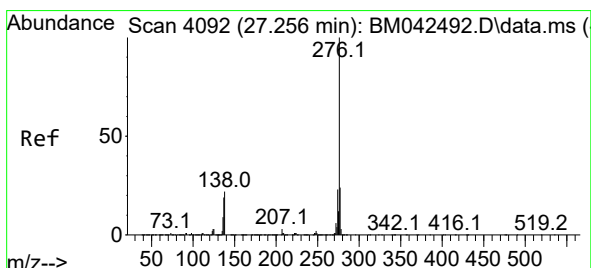
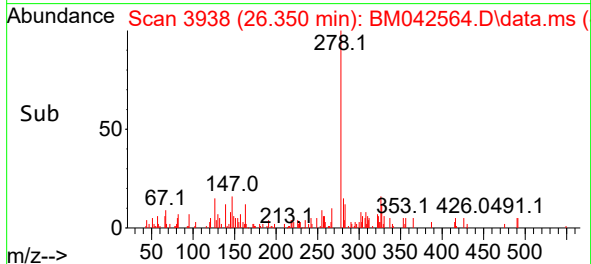
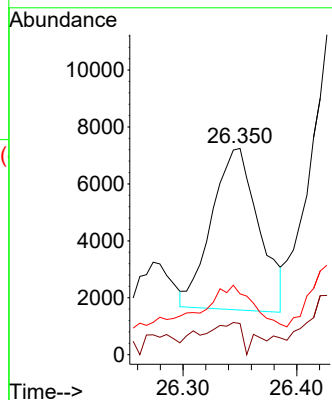
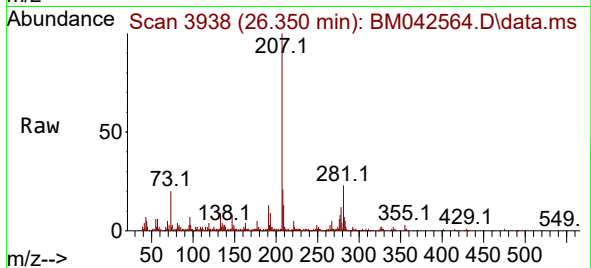
Tgt Ion:278 Resp: 16292

Ion Ratio Lower Upper

278 100

139 15.1 13.4 20.2

279 29.5 19.7 29.5



#92

Benzo(g,h,i)perylene

Concen: 22.010 ng

RT: 27.256 min Scan# 4092

Delta R.T. -0.000 min

Lab File: BM042564.D

Acq: 02 Nov 2023 16:49

Tgt Ion:276 Resp: 382724

Ion Ratio Lower Upper

276 100

277 24.3 19.2 28.8

138 17.0 17.3 25.9#

