

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021623\  
 Data File : BM038769.D  
 Acq On : 16 Feb 2023 22:34  
 Operator : CG/JU  
 Sample : 01552-15  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SB-04-4.0-6.0

Quant Time: Feb 17 06:13:45 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM020123.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Feb 17 06:10:11 2023  
 Response via : Initial Calibration

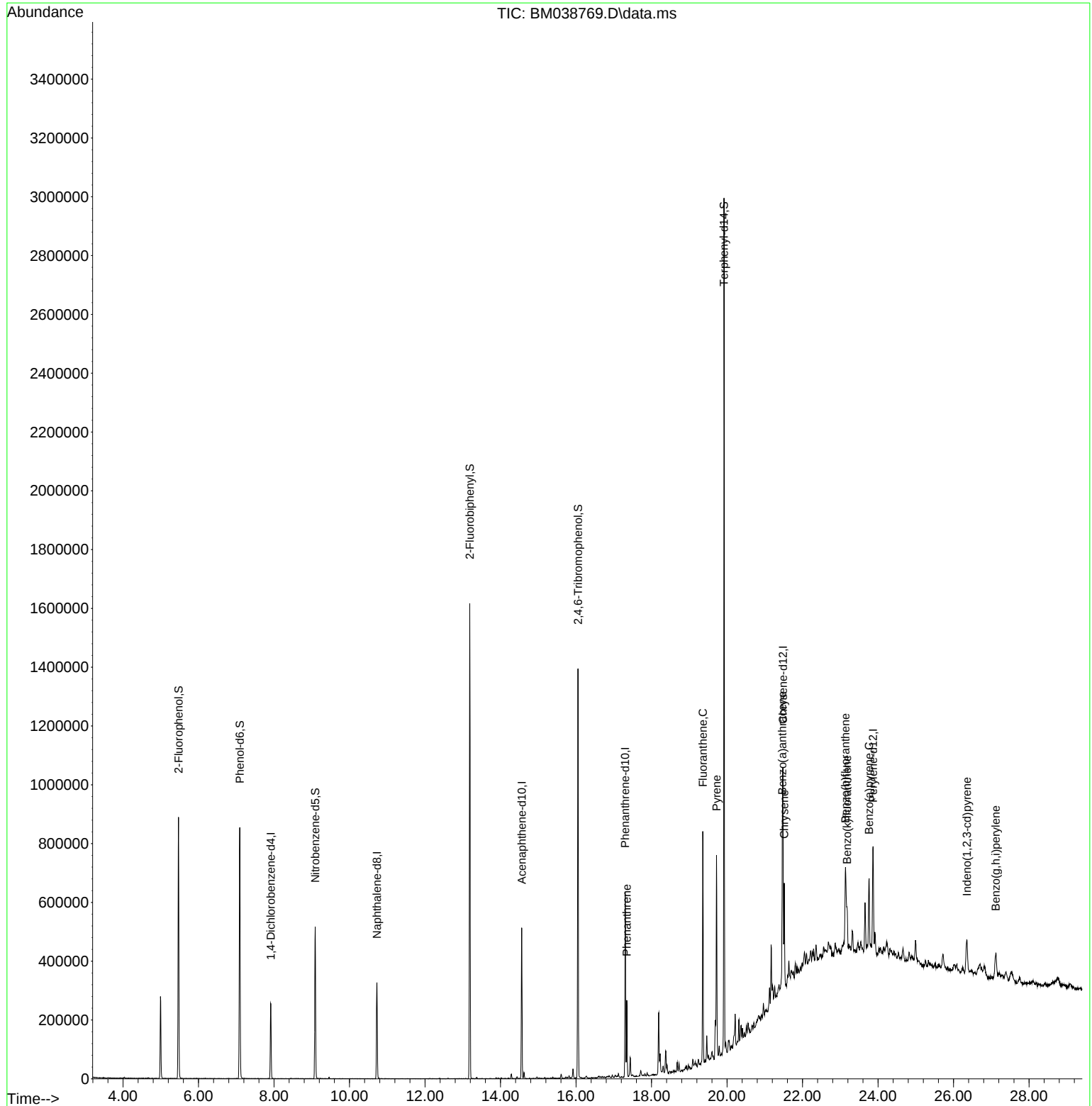
| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.916  | 152  | 73235    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.728 | 136  | 281044   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.563 | 164  | 177043   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.304 | 188  | 348355   | 20.000  | ng    | # 0.00   |
| 76) Chrysene-d12            | 21.480 | 240  | 253526   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12            | 23.868 | 264  | 251073   | 20.000  | ng    | 0.00     |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.469  | 112  | 402075   | 107.548 | ng    | 0.00     |
| 7) Phenol-d6                | 7.093  | 99   | 489891   | 114.892 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.092  | 82   | 280158   | 56.621  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.051 | 330  | 223626   | 92.930  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.186 | 172  | 767431   | 55.185  | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.921 | 244  | 1090050  | 75.873  | ng    | 0.00     |
| Target Compounds            |        |      |          |         |       |          |
|                             |        |      |          |         |       | Qvalue   |
| 71) Phenanthrene            | 17.345 | 178  | 145202   | 7.020   | ng    | 100      |
| 75) Fluoranthene            | 19.356 | 202  | 421162   | 19.393  | ng    | 97       |
| 78) Pyrene                  | 19.721 | 202  | 368645   | 18.886  | ng    | 99       |
| 81) Benzo(a)anthracene      | 21.462 | 228  | 193434   | 10.786  | ng    | 98       |
| 83) Chrysene                | 21.515 | 228  | 165402   | 9.572   | ng    | 95       |
| 87) Indeno(1,2,3-cd)pyrene  | 26.350 | 276  | 107167   | 5.419   | ng    | 97       |
| 88) Benzo(b)fluoranthene    | 23.139 | 252  | 225871   | 15.020  | ng    | # 93     |
| 89) Benzo(k)fluoranthene    | 23.180 | 252  | 77269m   | 5.060   | ng    |          |
| 90) Benzo(a)pyrene          | 23.762 | 252  | 152798   | 10.274  | ng    | # 94     |
| 92) Benzo(g,h,i)perylene    | 27.115 | 276  | 100096   | 5.951   | ng    | 97       |
| -----                       |        |      |          |         |       |          |

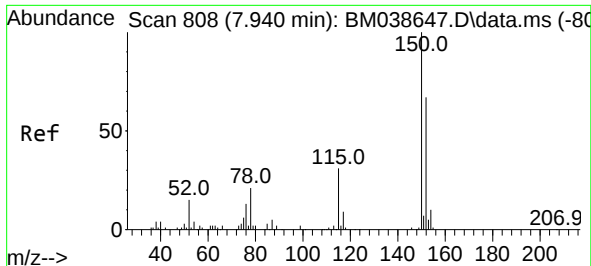
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Feb 17 06:10:11 2023  
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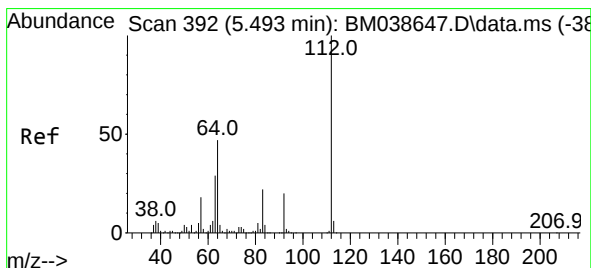
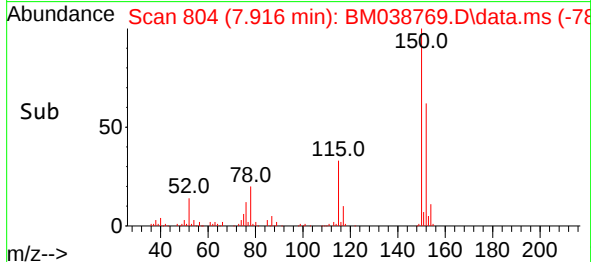
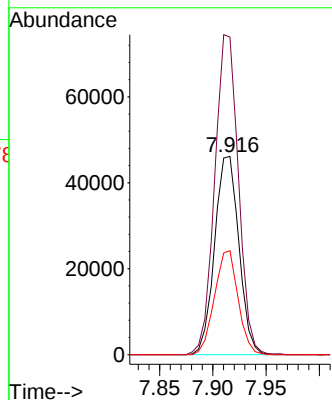
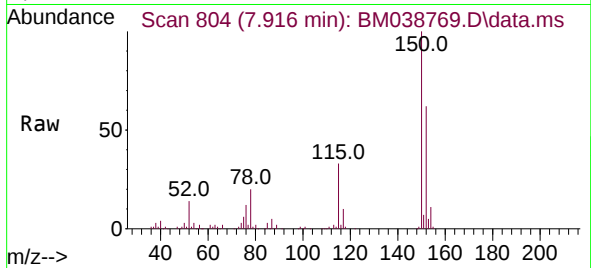




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.916 min Scan# 80  
Delta R.T. 0.000 min  
Lab File: BM038769.D  
Acq: 16 Feb 2023 22:34

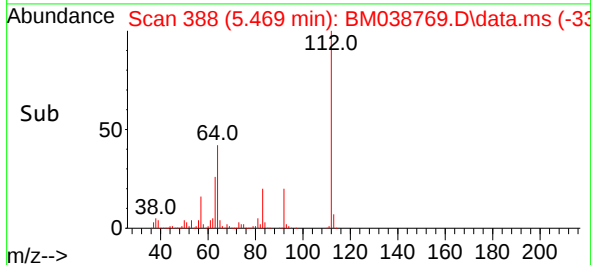
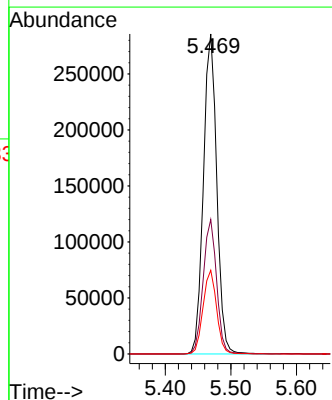
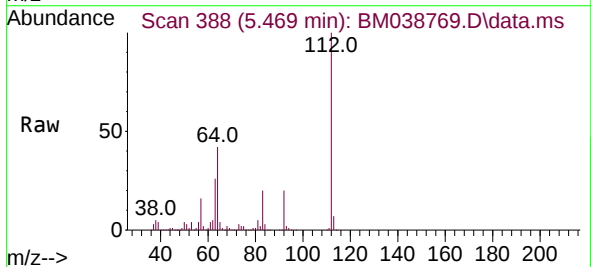
Instrument :  
BNA\_M  
ClientSampleId :  
SB-04-4.0-6.0

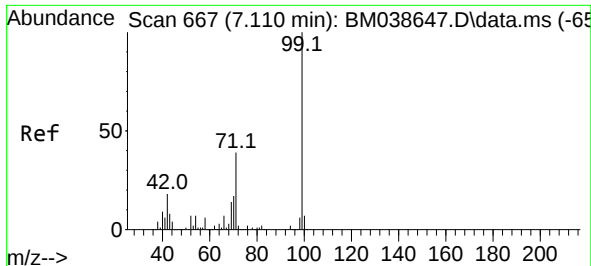
Tgt Ion:152 Resp: 73235  
Ion Ratio Lower Upper  
152 100  
150 160.2 119.5 179.3  
115 52.4 37.6 56.4



#5  
2-Fluorophenol  
Concen: 107.548 ng  
RT: 5.469 min Scan# 388  
Delta R.T. 0.006 min  
Lab File: BM038769.D  
Acq: 16 Feb 2023 22:34

Tgt Ion:112 Resp: 402075  
Ion Ratio Lower Upper  
112 100  
64 42.0 37.9 56.9  
63 26.2 23.3 34.9

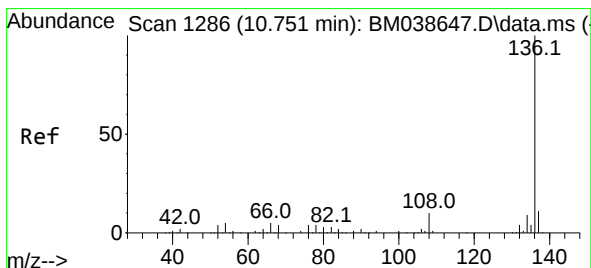
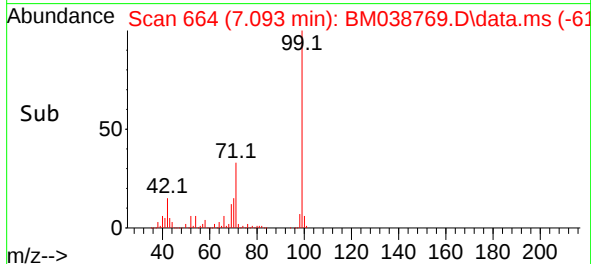
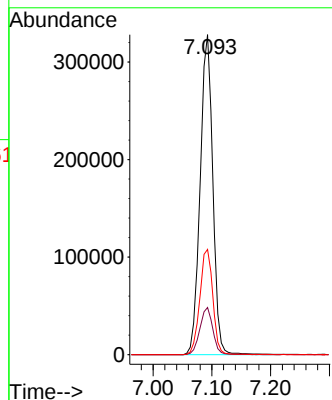
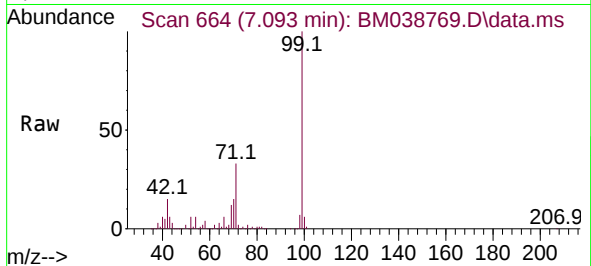




#7  
Phenol-d6  
Concen: 114.892 ng  
RT: 7.093 min Scan# 60  
Delta R.T. 0.006 min  
Lab File: BM038769.D  
Acq: 16 Feb 2023 22:34

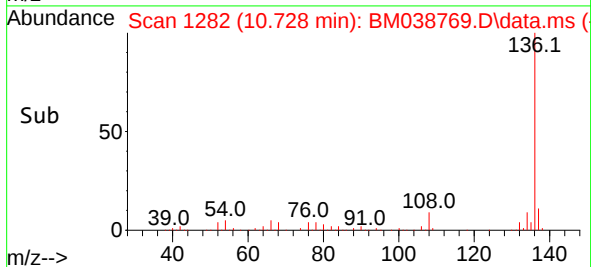
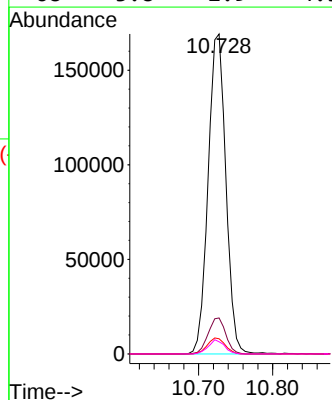
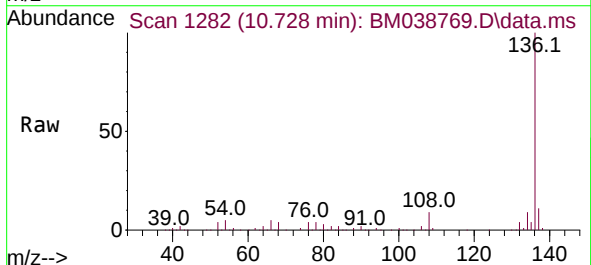
Instrument :  
BNA\_M  
ClientSampleId :  
SB-04-4.0-6.0

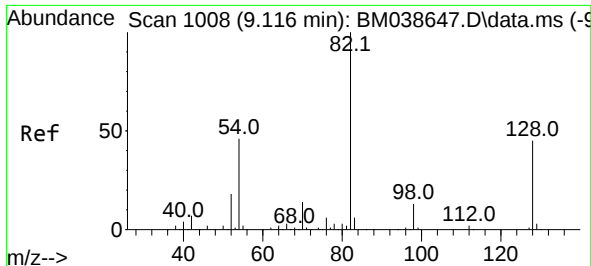
Tgt Ion: 99 Resp: 489891  
Ion Ratio Lower Upper  
99 100  
42 14.8 14.6 22.0  
71 32.9 31.0 46.4



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.728 min Scan# 1282  
Delta R.T. -0.000 min  
Lab File: BM038769.D  
Acq: 16 Feb 2023 22:34

Tgt Ion: 136 Resp: 281044  
Ion Ratio Lower Upper  
136 100  
137 11.2 8.8 13.2  
54 4.7 4.2 6.4  
68 3.8 2.9 4.3





#23

Nitrobenzene-d5

Concen: 56.621 ng

RT: 9.092 min Scan# 1004

Delta R.T. -0.000 min

Lab File: BM038769.D

Acq: 16 Feb 2023 22:34

Instrument :

BNA\_M

ClientSampleId :

SB-04-4.0-6.0

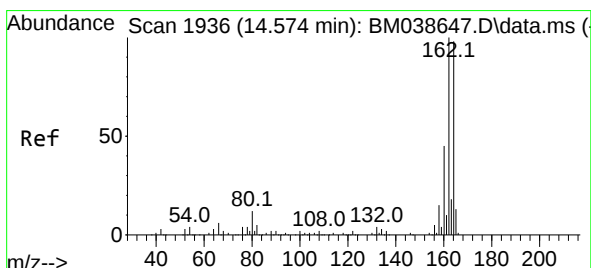
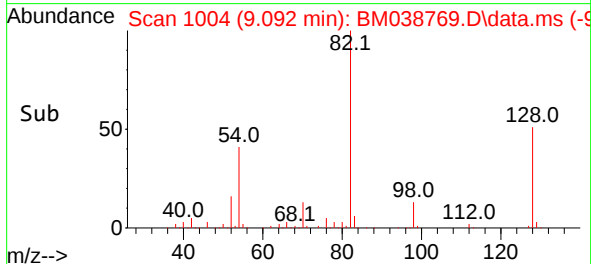
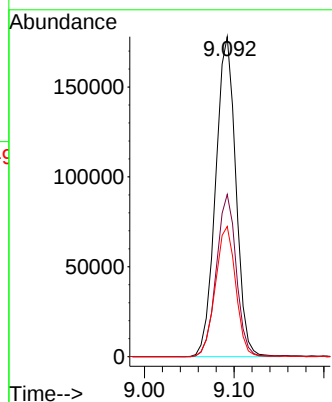
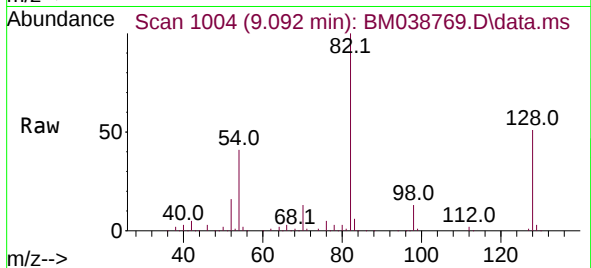
Tgt Ion: 82 Resp: 280158

Ion Ratio Lower Upper

82 100

128 50.7 36.0 54.0

54 40.7 36.8 55.2



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.563 min Scan# 1934

Delta R.T. -0.000 min

Lab File: BM038769.D

Acq: 16 Feb 2023 22:34

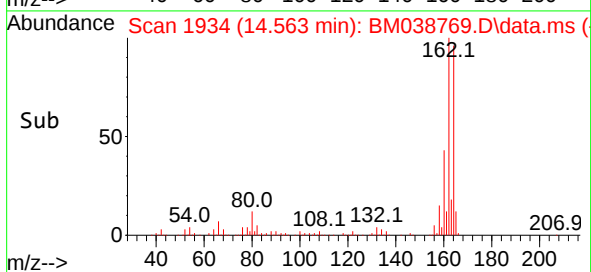
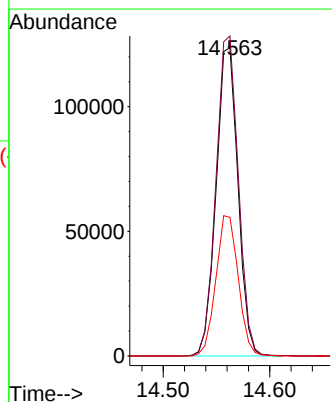
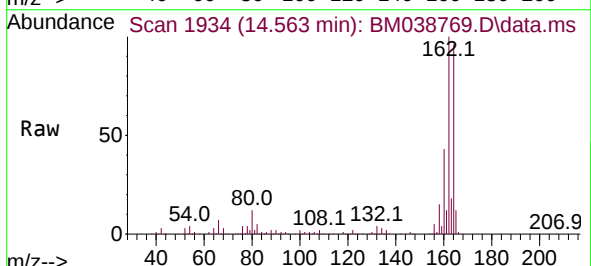
Tgt Ion:164 Resp: 177043

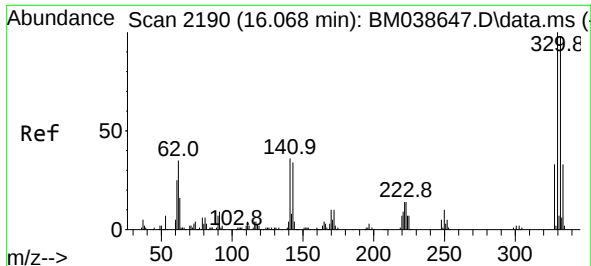
Ion Ratio Lower Upper

164 100

162 103.9 81.4 122.0

160 44.9 36.5 54.7

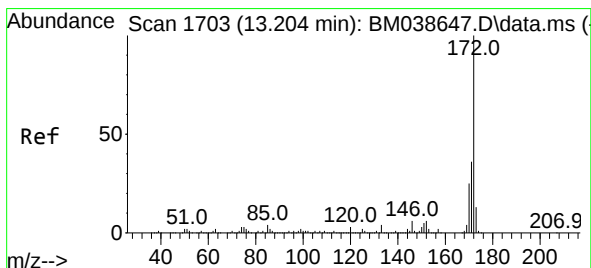
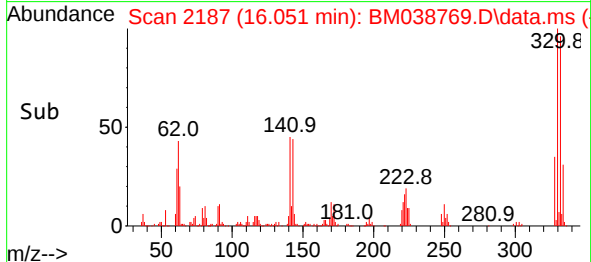
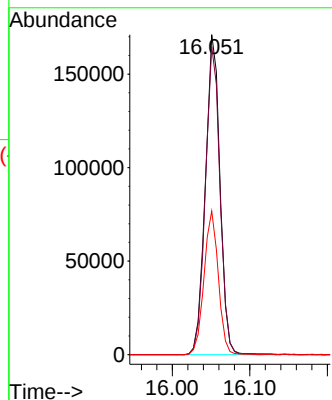
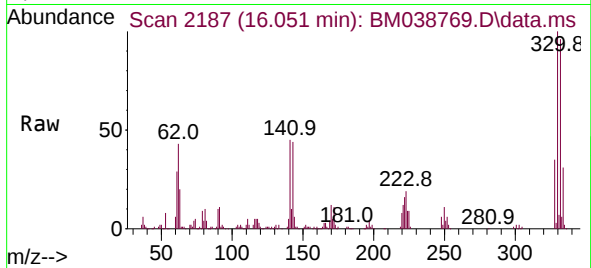




#42  
2,4,6-Tribromophenol  
Concen: 92.930 ng  
RT: 16.051 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BM038769.D  
Acq: 16 Feb 2023 22:34

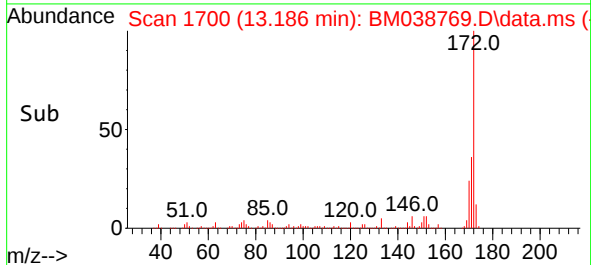
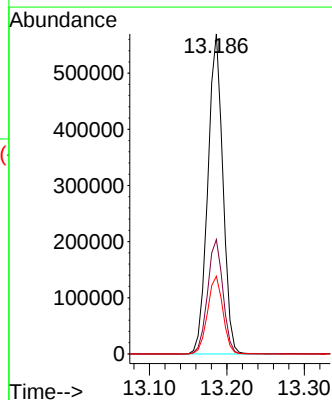
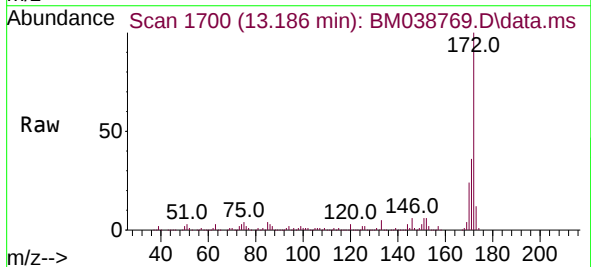
Instrument :  
BNA\_M  
ClientSampleId :  
SB-04-4.0-6.0

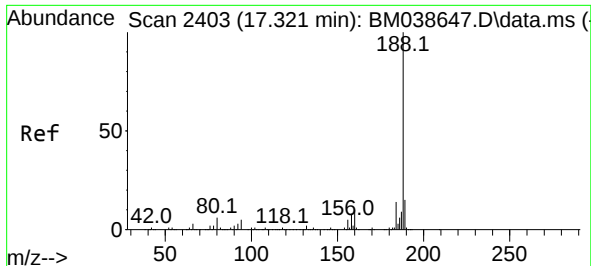
Tgt Ion:330 Resp: 223626  
Ion Ratio Lower Upper  
330 100  
332 96.4 77.8 116.6  
141 43.9 31.0 46.6



#45  
2-Fluorobiphenyl  
Concen: 55.185 ng  
RT: 13.186 min Scan# 1700  
Delta R.T. -0.000 min  
Lab File: BM038769.D  
Acq: 16 Feb 2023 22:34

Tgt Ion:172 Resp: 767431  
Ion Ratio Lower Upper  
172 100  
171 35.7 28.7 43.1  
170 24.3 20.0 30.0

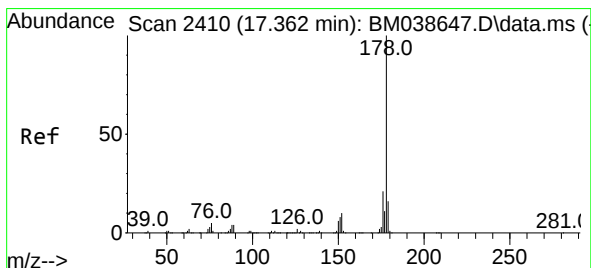
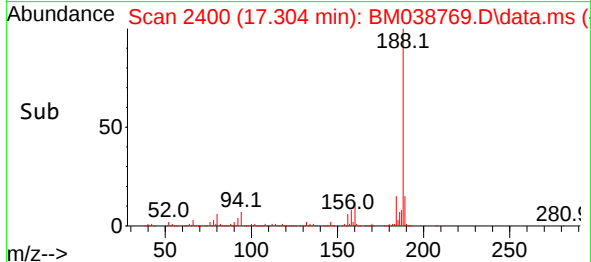
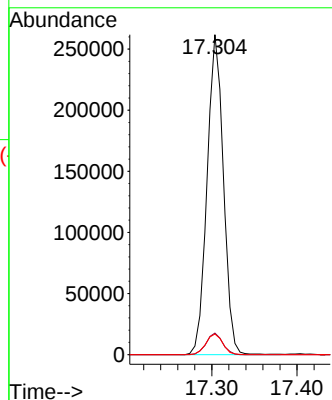
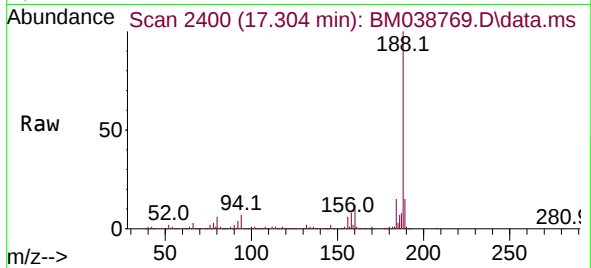




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.304 min Scan# 2400  
Delta R.T. -0.000 min  
Lab File: BM038769.D  
Acq: 16 Feb 2023 22:34

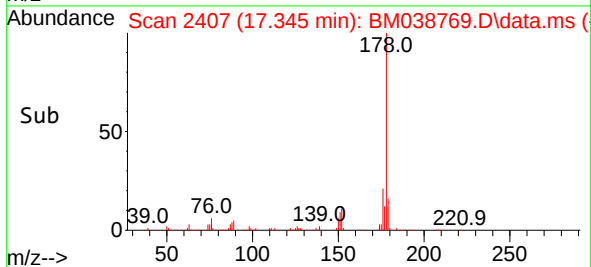
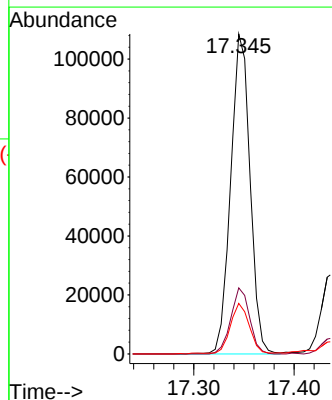
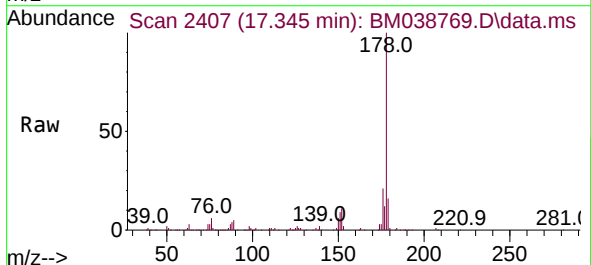
Instrument :  
BNA\_M  
ClientSampleId :  
SB-04-4.0-6.0

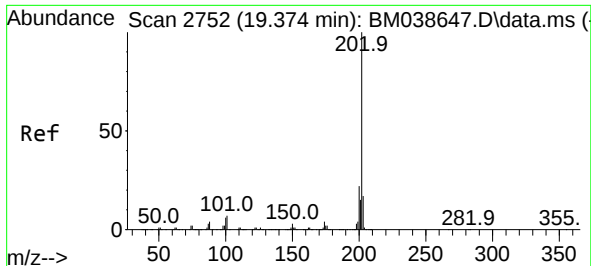
Tgt Ion:188 Resp: 348355  
Ion Ratio Lower Upper  
188 100  
94 6.7 4.2 6.4#  
80 6.4 4.6 7.0



#71  
Phenanthrene  
Concen: 7.020 ng  
RT: 17.345 min Scan# 2407  
Delta R.T. -0.000 min  
Lab File: BM038769.D  
Acq: 16 Feb 2023 22:34

Tgt Ion:178 Resp: 145202  
Ion Ratio Lower Upper  
178 100  
176 20.6 16.7 25.1  
179 15.8 12.5 18.7

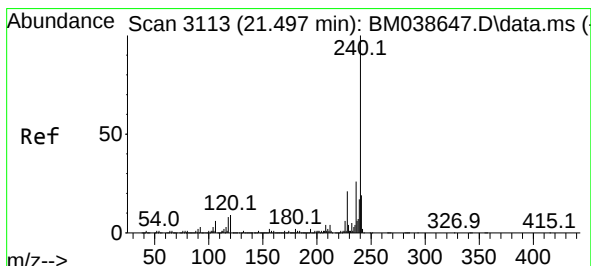
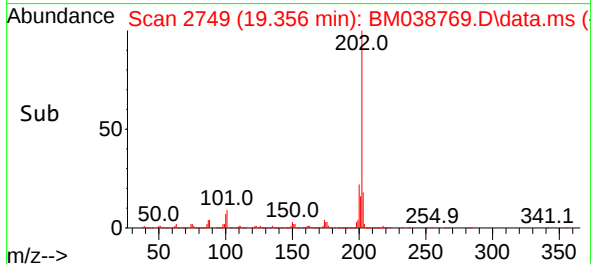
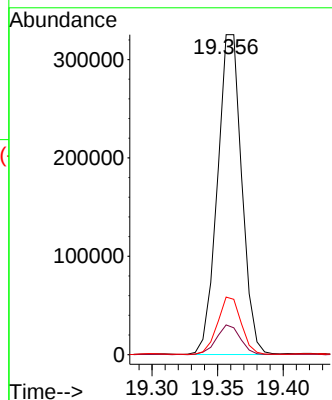
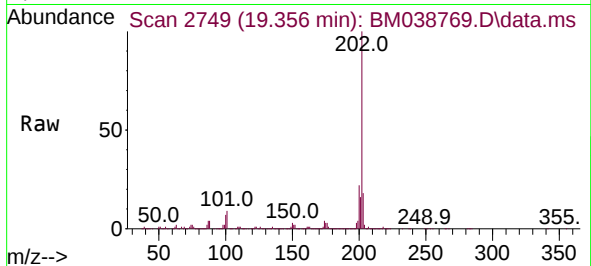




#75  
Fluoranthene  
Concen: 19.393 ng  
RT: 19.356 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BM038769.D  
Acq: 16 Feb 2023 22:34

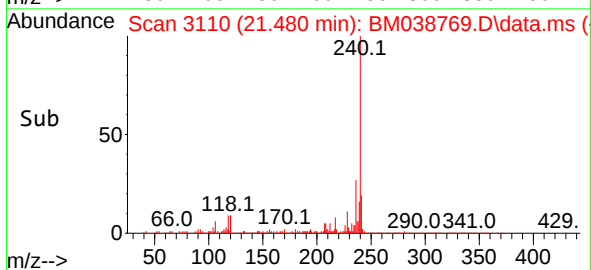
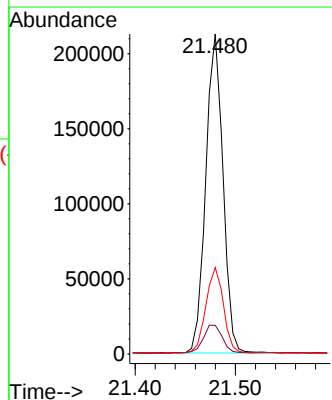
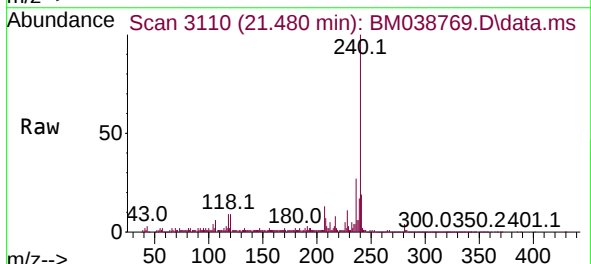
Instrument :  
BNA\_M  
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SB-04-4.0-6.0

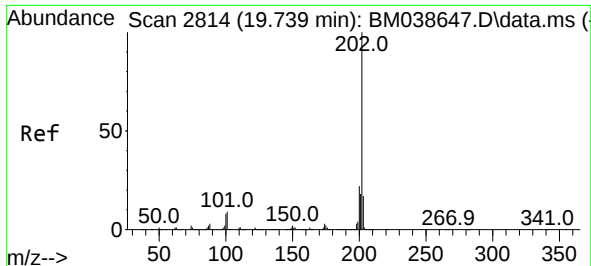
Tgt Ion:202 Resp: 421162  
Ion Ratio Lower Upper  
202 100  
101 9.3 0.0 27.4  
203 18.0 0.0 37.3



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.480 min Scan# 3110  
Delta R.T. -0.006 min  
Lab File: BM038769.D  
Acq: 16 Feb 2023 22:34

Tgt Ion:240 Resp: 253526  
Ion Ratio Lower Upper  
240 100  
120 8.9 7.0 10.4  
236 27.0 20.9 31.3

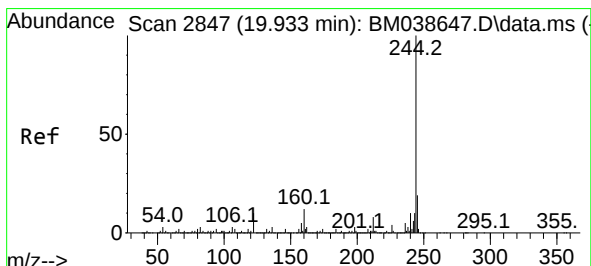
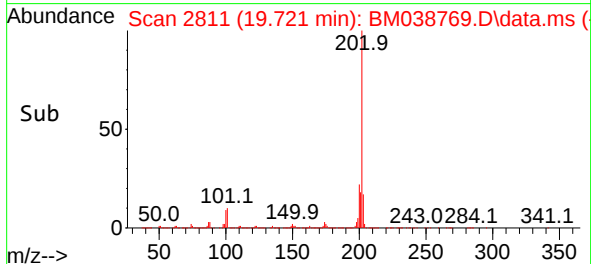
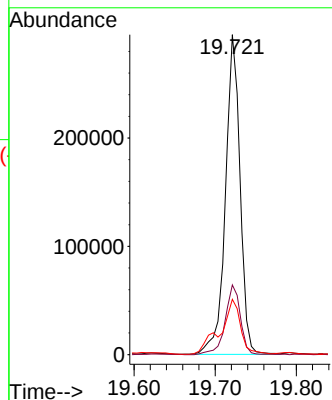
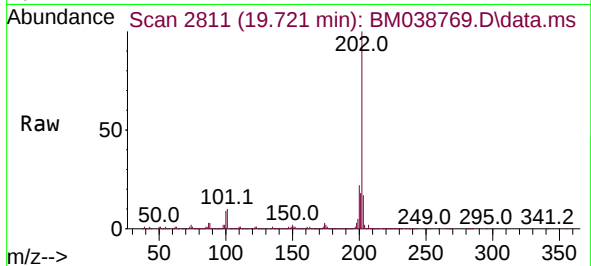




#78  
 Pyrene  
 Concen: 18.886 ng  
 RT: 19.721 min Scan# 2811  
 Delta R.T. -0.000 min  
 Lab File: BM038769.D  
 Acq: 16 Feb 2023 22:34

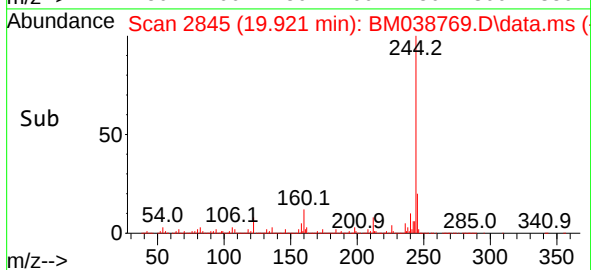
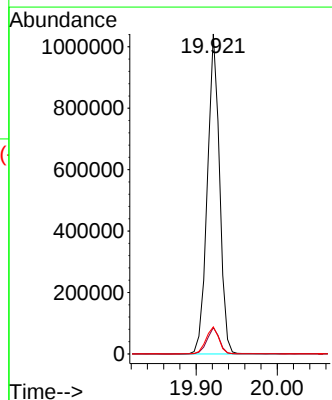
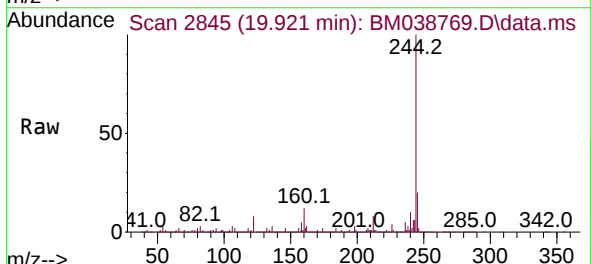
Instrument :  
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 ClientSampleId :  
 SB-04-4.0-6.0

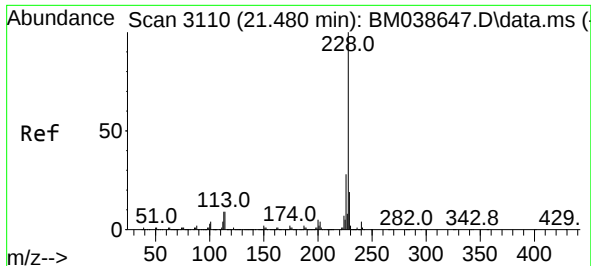
Tgt Ion:202 Resp: 368645  
 Ion Ratio Lower Upper  
 202 100  
 200 21.8 17.8 26.6  
 203 17.3 13.5 20.3



#79  
 Terphenyl-d14  
 Concen: 75.873 ng  
 RT: 19.921 min Scan# 2845  
 Delta R.T. -0.000 min  
 Lab File: BM038769.D  
 Acq: 16 Feb 2023 22:34

Tgt Ion:244 Resp: 1090050  
 Ion Ratio Lower Upper  
 244 100  
 212 8.2 6.6 9.8  
 122 8.4 7.8 11.8

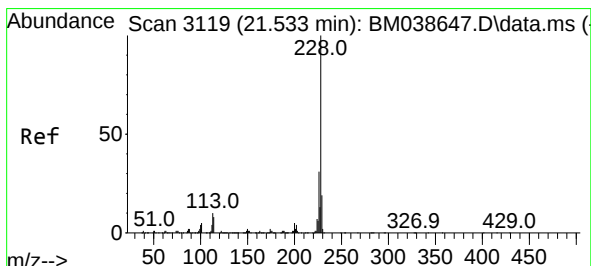
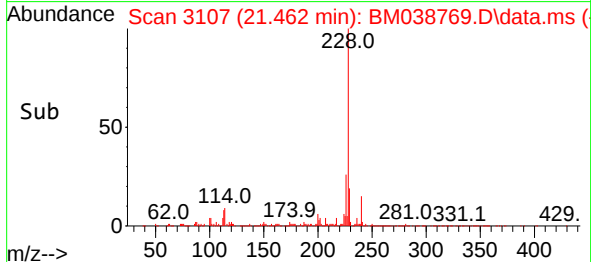
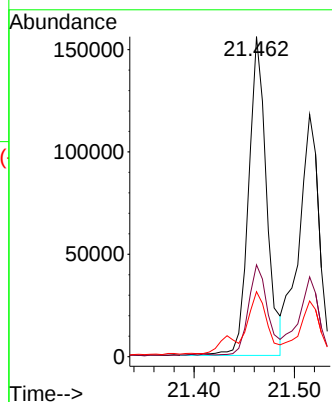
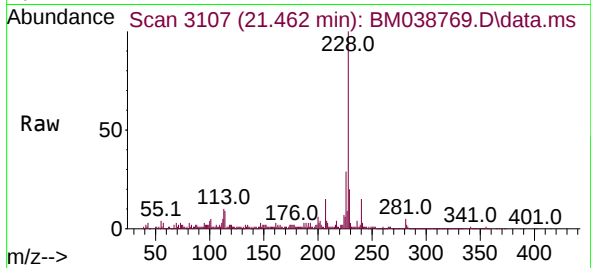




#81  
Benzo(a)anthracene  
Concen: 10.786 ng  
RT: 21.462 min Scan# 3110  
Delta R.T. -0.006 min  
Lab File: BM038769.D  
Acq: 16 Feb 2023 22:34

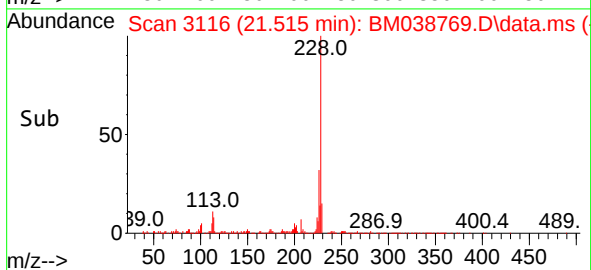
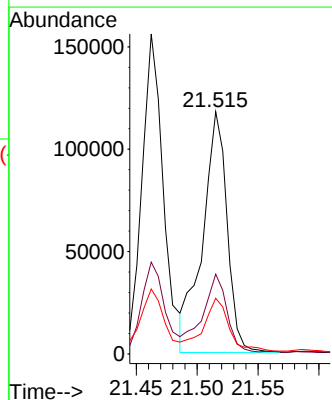
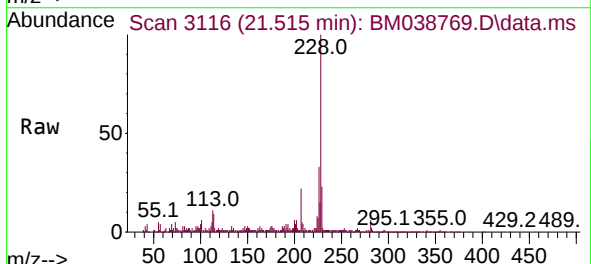
Instrument :  
BNA\_M  
ClientSampleId :  
SB-04-4.0-6.0

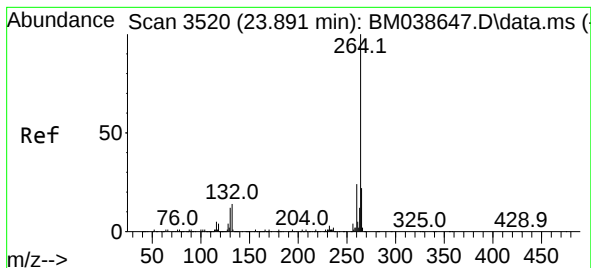
Tgt Ion:228 Resp: 193434  
Ion Ratio Lower Upper  
228 100  
226 28.7 22.2 33.4  
229 20.3 15.5 23.3



#83  
Chrysene  
Concen: 9.572 ng  
RT: 21.515 min Scan# 3116  
Delta R.T. -0.006 min  
Lab File: BM038769.D  
Acq: 16 Feb 2023 22:34

Tgt Ion:228 Resp: 165402  
Ion Ratio Lower Upper  
228 100  
226 32.9 24.7 37.1  
229 23.0 15.5 23.3





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.868 min Scan# 31

Delta R.T. -0.000 min

Lab File: BM038769.D

Acq: 16 Feb 2023 22:34

Instrument :

BNA\_M

ClientSampleId :

SB-04-4.0-6.0

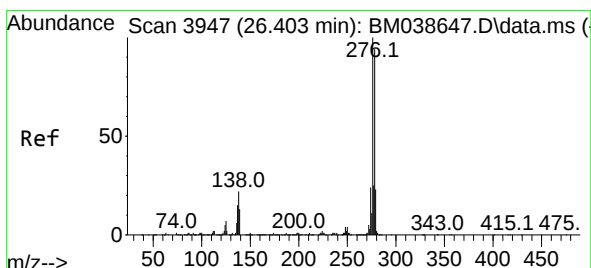
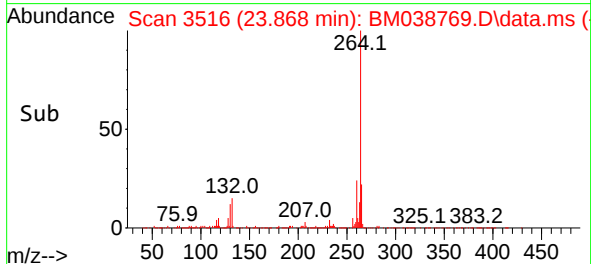
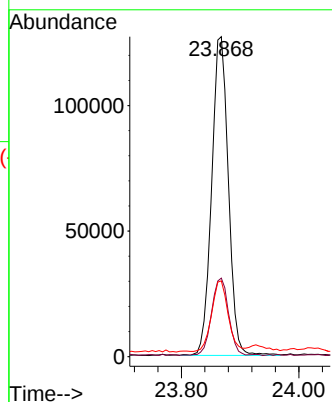
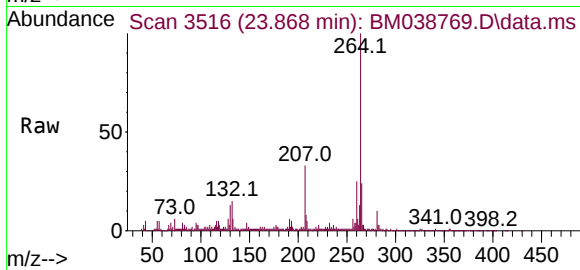
Tgt Ion:264 Resp: 251073

Ion Ratio Lower Upper

264 100

260 24.5 19.6 29.4

265 23.7 17.9 26.9



#87

Indeno(1,2,3-cd)pyrene

Concen: 5.419 ng

RT: 26.350 min Scan# 3938

Delta R.T. -0.012 min

Lab File: BM038769.D

Acq: 16 Feb 2023 22:34

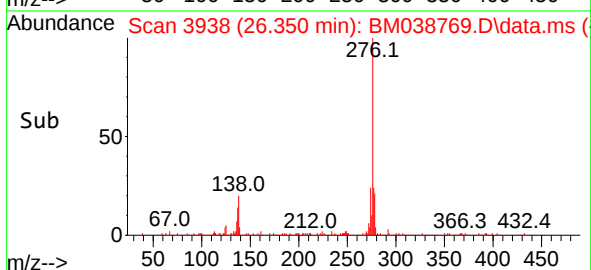
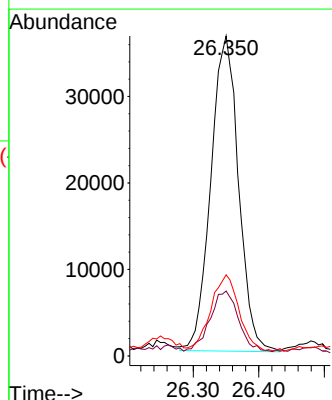
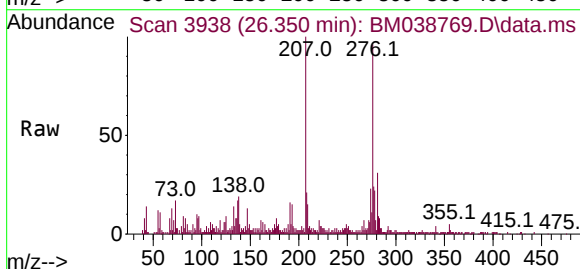
Tgt Ion:276 Resp: 107167

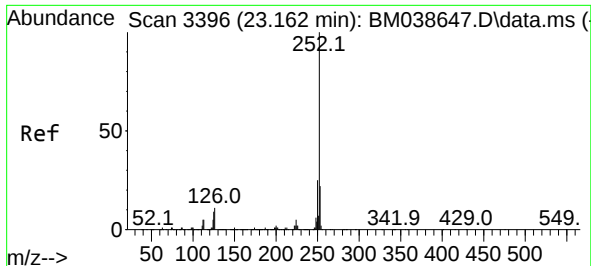
Ion Ratio Lower Upper

276 100

138 19.9 17.2 25.8

277 24.4 20.2 30.4

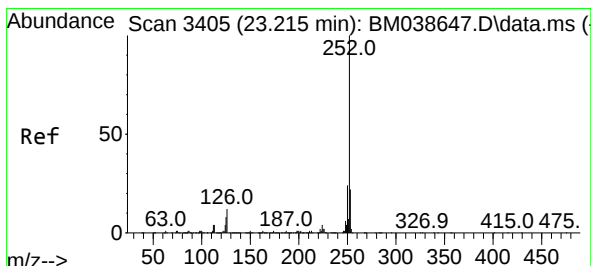
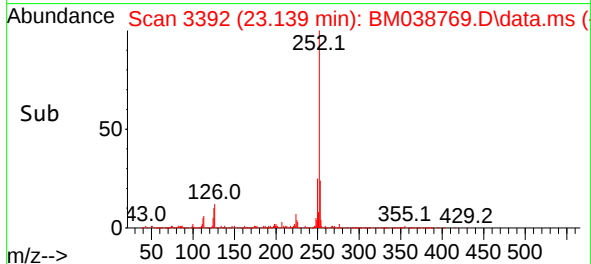
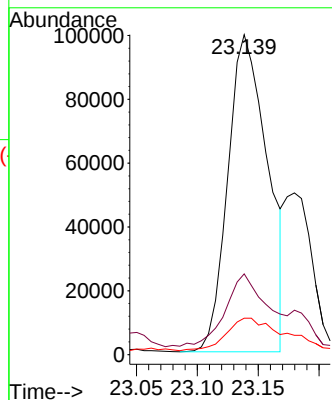
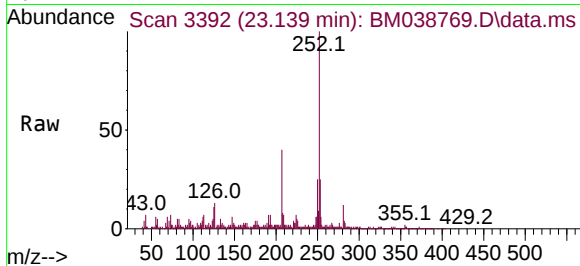




#88  
Benzo(b)fluoranthene  
Concen: 15.020 ng  
RT: 23.139 min Scan# 3396  
Delta R.T. -0.000 min  
Lab File: BM038769.D  
Acq: 16 Feb 2023 22:34

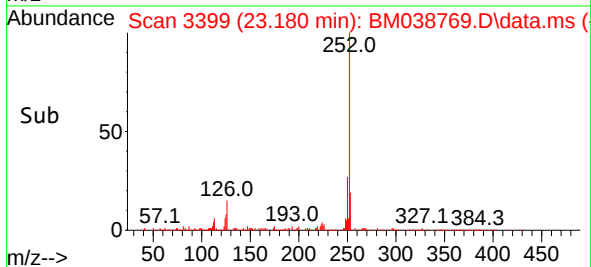
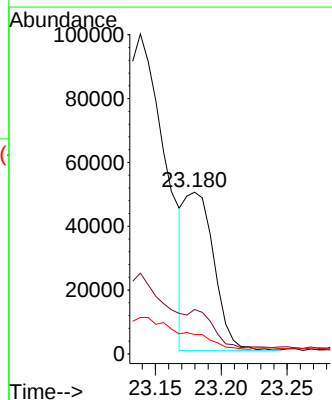
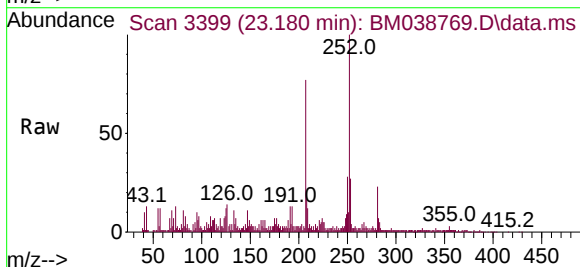
Instrument :  
BNA\_M  
ClientSampleId :  
SB-04-4.0-6.0

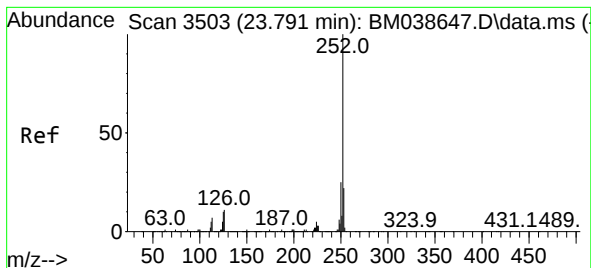
Tgt Ion:252 Resp: 225871  
Ion Ratio Lower Upper  
252 100  
253 25.2 17.4 26.2  
125 11.4 7.0 10.6#



#89  
Benzo(k)fluoranthene  
Concen: 5.060 ng m  
RT: 23.180 min Scan# 3399  
Delta R.T. -0.006 min  
Lab File: BM038769.D  
Acq: 16 Feb 2023 22:34

Tgt Ion:252 Resp: 77269  
Ion Ratio Lower Upper  
252 100  
253 27.4 17.4 26.0#  
125 12.0 6.6 9.8#





#90

Benzo(a)pyrene

Concen: 10.274 ng

RT: 23.762 min Scan# 34

Delta R.T. -0.000 min

Lab File: BM038769.D

Acq: 16 Feb 2023 22:34

Instrument :

BNA\_M

ClientSampleId :

SB-04-4.0-6.0

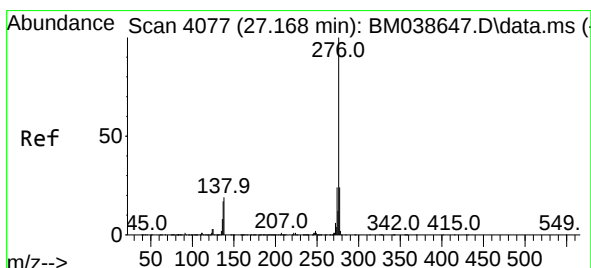
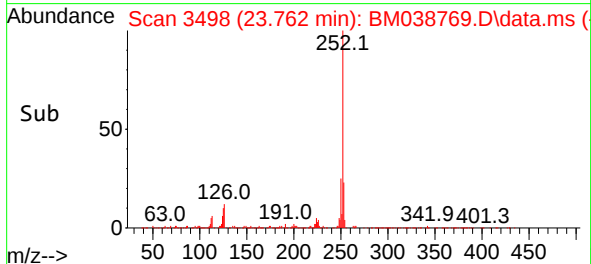
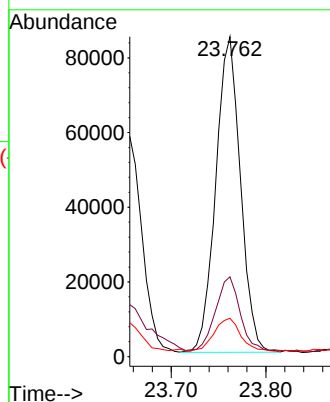
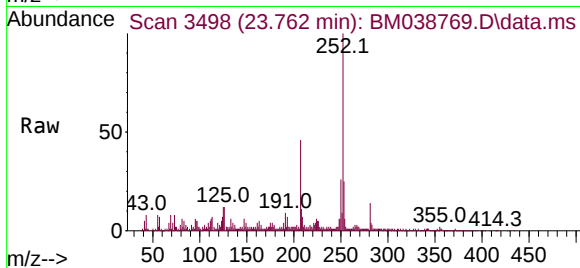
Tgt Ion:252 Resp: 152798

Ion Ratio Lower Upper

252 100

253 25.0 17.7 26.5

125 12.0 7.8 11.8#



#92

Benzo(g,h,i)perylene

Concen: 5.951 ng

RT: 27.115 min Scan# 4068

Delta R.T. -0.012 min

Lab File: BM038769.D

Acq: 16 Feb 2023 22:34

Tgt Ion:276 Resp: 100096

Ion Ratio Lower Upper

276 100

277 24.8 19.1 28.7

138 21.0 15.3 22.9

