

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM090923\  
 Data File : BM041756.D  
 Acq On : 09 Sep 2023 19:19  
 Operator : MA/JU  
 Sample : 04247-07  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BHAS6

Quant Time: Sep 09 23:33:48 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM090523.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Sep 09 23:26:58 2023  
 Response via : Initial Calibration

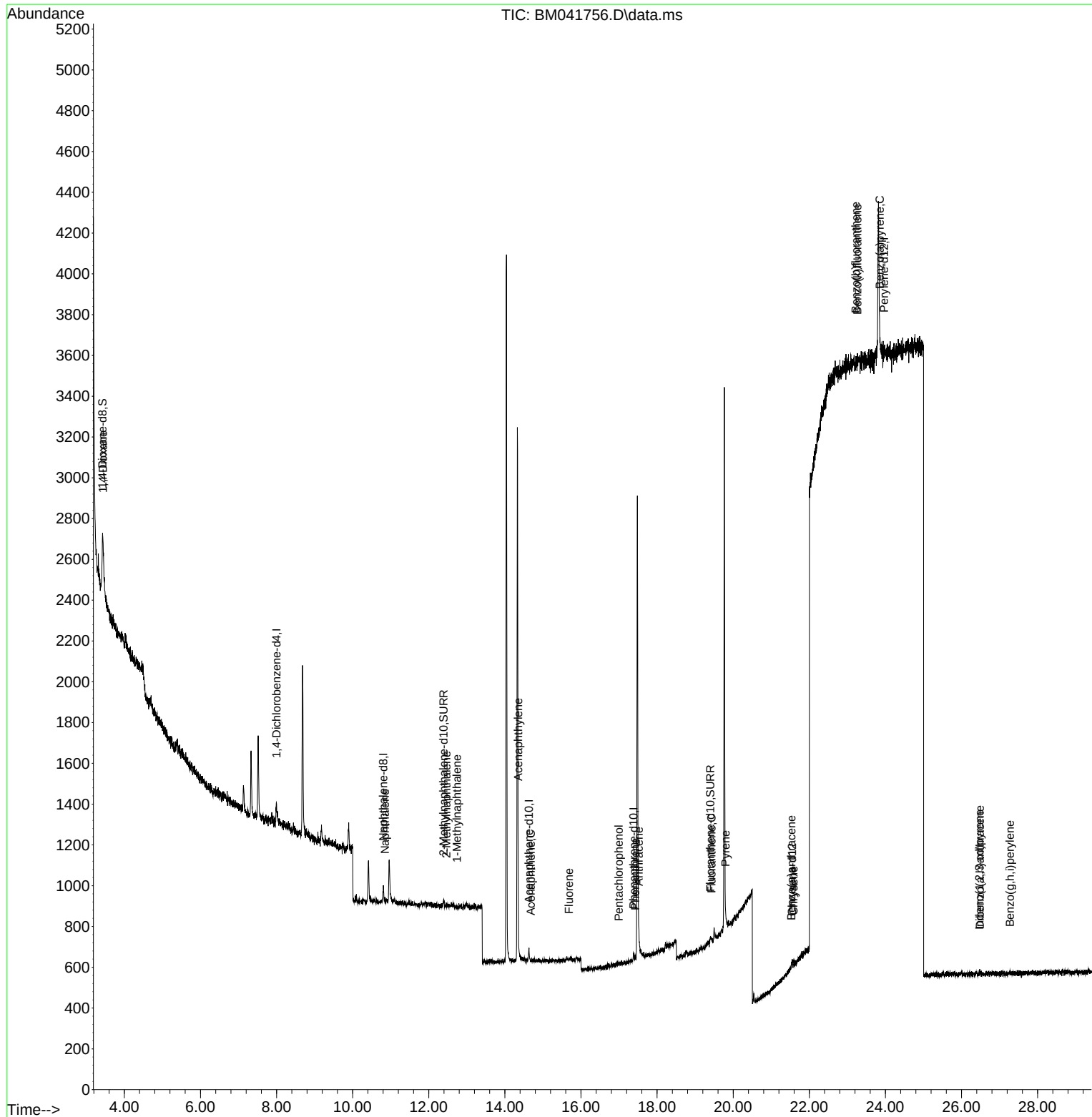
| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.996  | 152  | 66       | 0.400 | ng/ul  | # 0.00   |
| 4) Naphthalene-d8           | 10.807 | 136  | 85       | 0.400 | ng/ul  | # 0.00   |
| 9) Acenaphthene-d10         | 14.634 | 164  | 31       | 0.400 | ng/ul  | # 0.00   |
| 13) Phenanthrene-d10        | 17.384 | 188  | 44       | 0.400 | ng/ul  | # 0.00   |
| 17) Chrysene-d12            | 21.545 | 240  | 20       | 0.400 | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 23.962 | 264  | 3        | 0.400 | ng/ul  | #-0.01   |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.427  | 96   | 328      | 3.252 | ng/ul  | 0.03     |
| 6) 2-Methylnaphthalene-d10  | 12.385 | 152  | 37       | 0.338 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.404 | 212  | 30       | 0.309 | ng/ul  | 0.00     |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       |        | Qvalue   |
| 2) 1,4-Dioxane              | 3.436  | 88   | 8        | 0.076 | ng/ul# | 16       |
| 5) Naphthalene              | 10.851 | 128  | 23       | 0.082 | ng/ul# | 1        |
| 7) 2-Methylnaphthalene      | 12.462 | 142  | 8        | 0.050 | ng/ul  | 84       |
| 8) 1-Methylnaphthalene      | 12.737 | 142  | 5        | 0.031 | ng/ul  | 93       |
| 10) Acenaphthylene          | 14.347 | 152  | 7        | 0.037 | ng/ul# | 1        |
| 11) Acenaphthene            | 14.685 | 153  | 8        | 0.054 | ng/ul# | 72       |
| 12) Fluorene                | 15.684 | 166  | 13       | 0.078 | ng/ul# | 52       |
| 14) Pentachlorophenol       | 16.995 | 266  | 1        | 0.057 | ng/ul# | 1        |
| 15) Phenanthrene            | 17.426 | 178  | 31       | 0.167 | ng/ul# | 1        |
| 16) Anthracene              | 17.523 | 178  | 20       | 0.126 | ng/ul# | 1        |
| 19) Fluoranthene            | 19.431 | 202  | 23       | 0.097 | ng/ul# | 1        |
| 20) Pyrene                  | 19.799 | 202  | 17       | 0.073 | ng/ul# | 1        |
| 21) Benzo(a)anthracene      | 21.530 | 228  | 13       | 0.080 | ng/ul# | 1        |
| 22) Chrysene                | 21.589 | 228  | 16       | 0.091 | ng/ul# | 1        |
| 24) Benzo(b)fluoranthene    | 23.219 | 252  | 32       | 1.192 | ng/ul# | 1        |
| 25) Benzo(k)fluoranthene    | 23.263 | 252  | 13       | 0.495 | ng/ul# | 1        |
| 26) Benzo(a)pyrene          | 23.851 | 252  | 14       | 0.642 | ng/ul# | 1        |
| 27) Indeno(1,2,3-cd)pyrene  | 26.471 | 276  | 5        | 0.167 | ng/ul# | 1        |
| 28) Dibenzo(a,h)anthracene  | 26.481 | 278  | 2        | 0.095 | ng/ul# | 1        |
| 29) Benzo(g,h,i)perylene    | 27.270 | 276  | 1        | 0.038 | ng/ul# | 1        |
| -----                       |        |      |          |       |        |          |

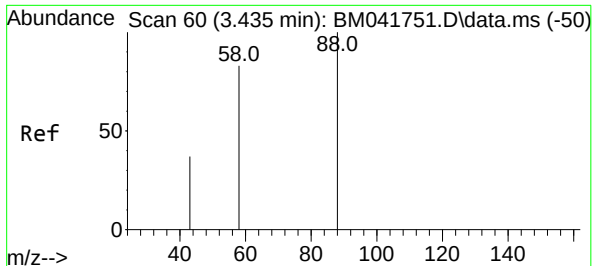
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM090923\  
Data File : BM041756.D  
Acq On : 09 Sep 2023 19:19  
Operator : MA/JU  
Sample : 04247-07  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BHAS6

Quant Time: Sep 09 23:33:48 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM090523.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Sep 09 23:26:58 2023  
Response via : Initial Calibration

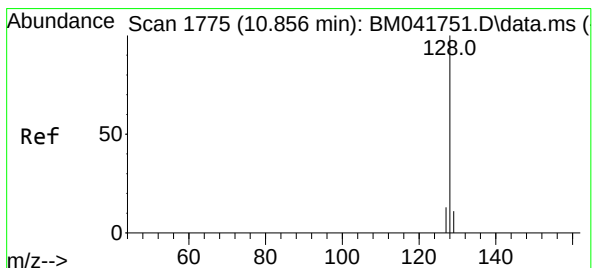
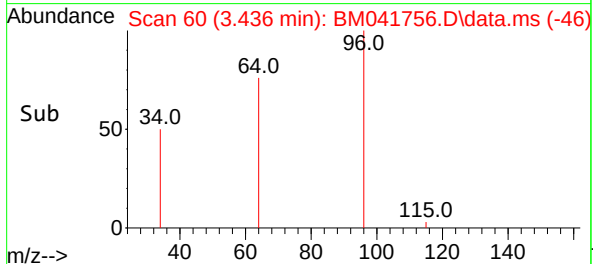
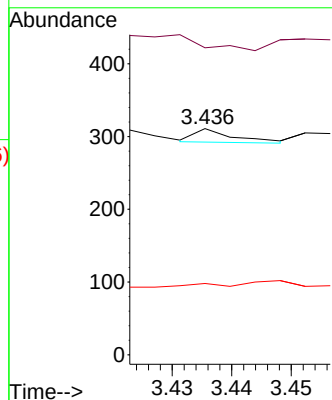
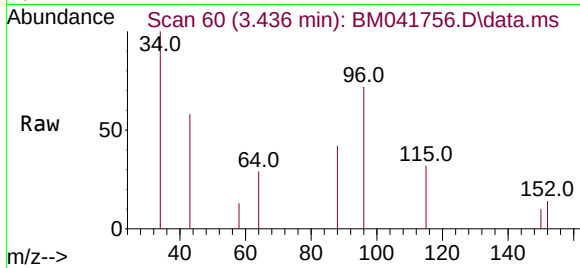




#2  
1,4-Dioxane  
Concen: 0.076 ng/ul  
RT: 3.436 min Scan# 60  
Delta R.T. 0.000 min  
Lab File: BM041756.D  
Acq: 09 Sep 2023 19:19

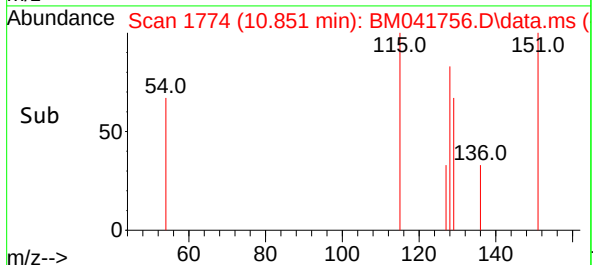
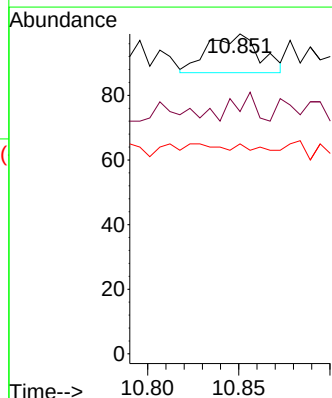
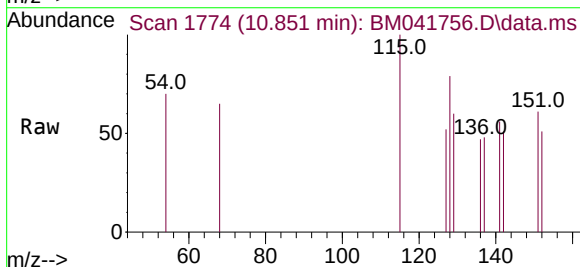
Instrument :  
BNA\_M  
ClientSampleId :  
BHAS6

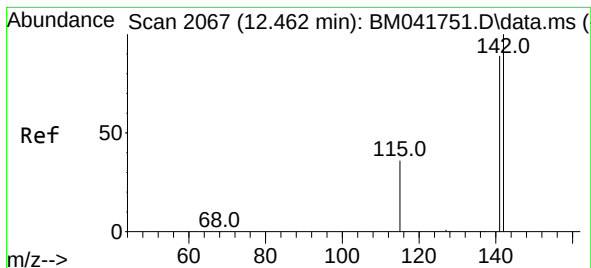
Tgt Ion: 88 Resp: 8  
Ion Ratio Lower Upper  
88 100  
43 135.7 33.8 50.6#  
58 31.5 54.2 81.2#



#5  
Naphthalene  
Concen: 0.082 ng/ul  
RT: 10.851 min Scan# 1774  
Delta R.T. -0.005 min  
Lab File: BM041756.D  
Acq: 09 Sep 2023 19:19

Tgt Ion: 128 Resp: 23  
Ion Ratio Lower Upper  
128 100  
129 75.8 9.4 14.0#  
127 65.7 11.0 16.6#

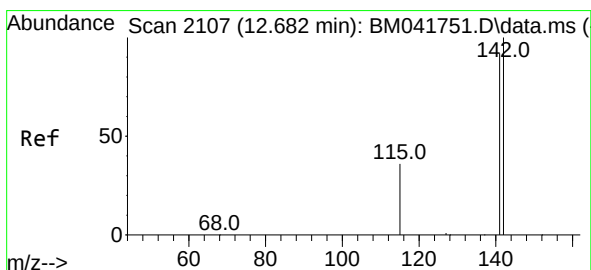
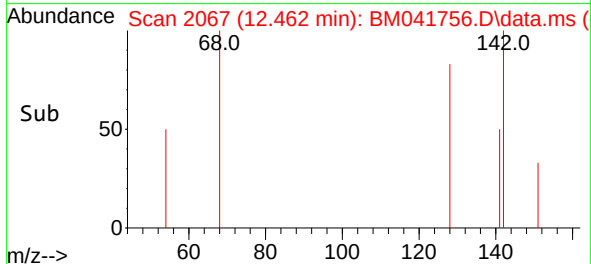
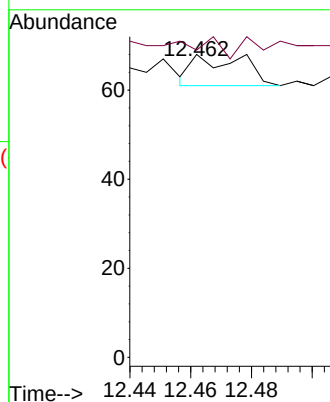
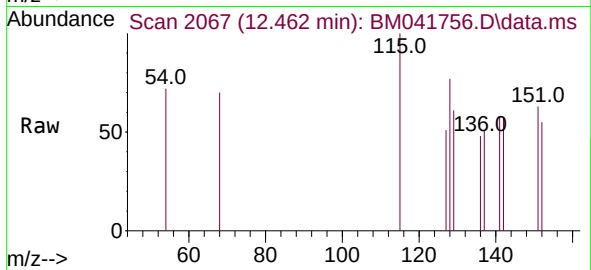




#7  
2-Methylnaphthalene  
Concen: 0.050 ng/ul  
RT: 12.462 min Scan# 2067  
Delta R.T. 0.000 min  
Lab File: BM041756.D  
Acq: 09 Sep 2023 19:19

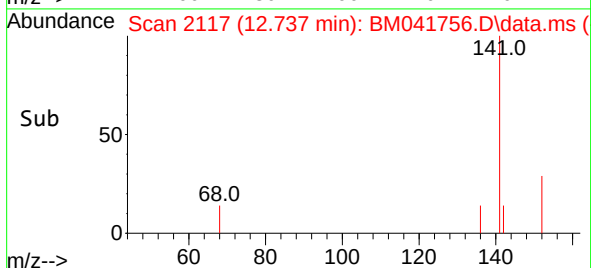
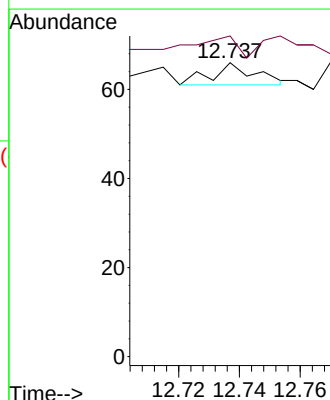
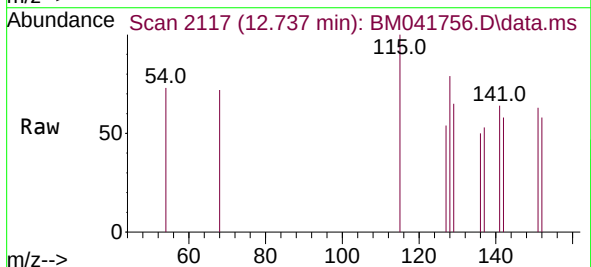
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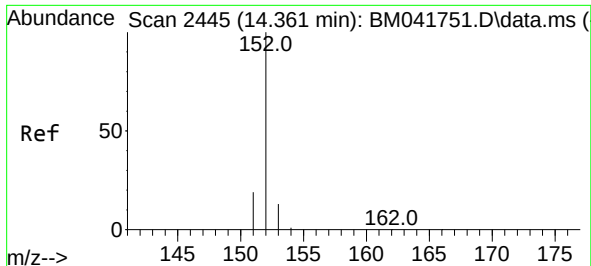
Tgt Ion:142 Resp: 8  
Ion Ratio Lower Upper  
142 100  
141 75.0 72.2 108.2



#8  
1-Methylnaphthalene  
Concen: 0.031 ng/ul  
RT: 12.737 min Scan# 2117  
Delta R.T. 0.055 min  
Lab File: BM041756.D  
Acq: 09 Sep 2023 19:19

Tgt Ion:142 Resp: 5  
Ion Ratio Lower Upper  
142 100  
141 100.0 74.4 111.6

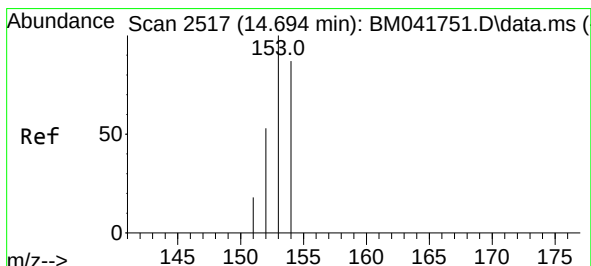
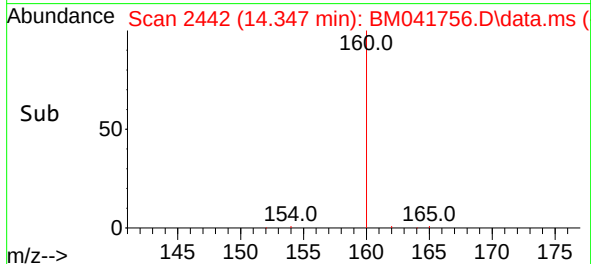
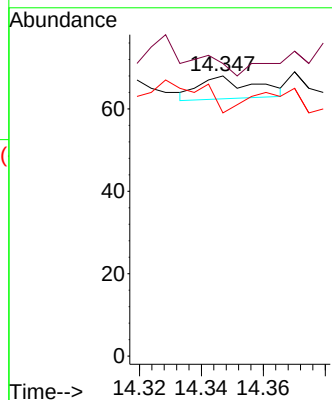
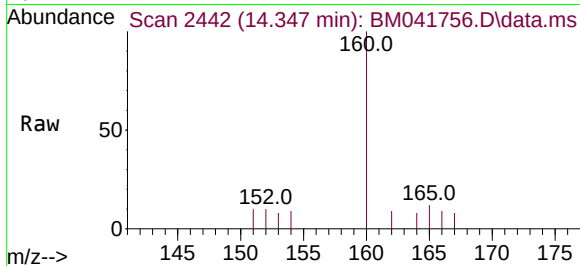




#10  
Acenaphthylene  
Concen: 0.037 ng/ul  
RT: 14.347 min Scan# 2445  
Delta R.T. -0.014 min  
Lab File: BM041756.D  
Acq: 09 Sep 2023 19:19

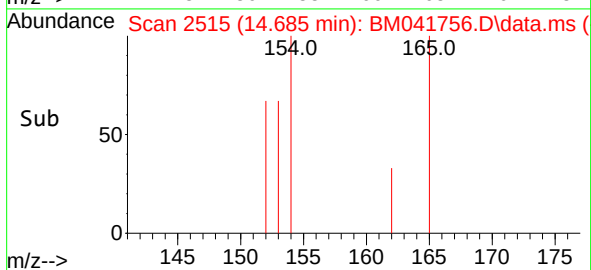
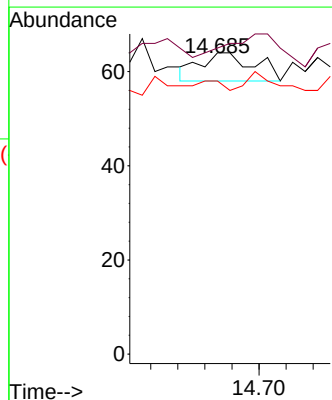
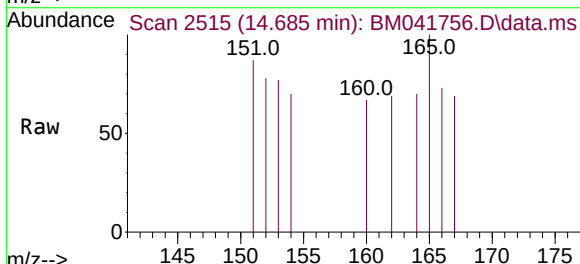
Instrument :  
BNA\_M  
ClientSampleId :  
BHAS6

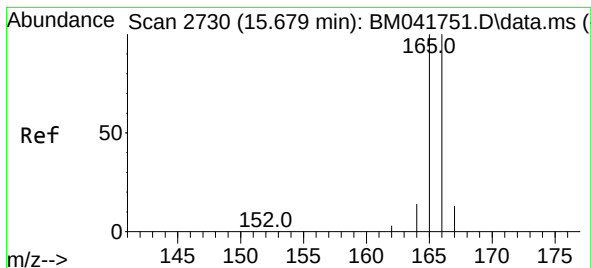
Tgt Ion:152 Resp: 7  
Ion Ratio Lower Upper  
152 100  
151 104.4 16.4 24.6#  
153 86.8 11.1 16.7#



#11  
Acenaphthene  
Concen: 0.054 ng/ul  
RT: 14.685 min Scan# 2515  
Delta R.T. -0.009 min  
Lab File: BM041756.D  
Acq: 09 Sep 2023 19:19

Tgt Ion:153 Resp: 8  
Ion Ratio Lower Upper  
153 100  
152 101.6 43.4 65.2#  
154 90.6 69.4 104.0





#12

Fluorene

Concen: 0.078 ng/ul

RT: 15.684 min Scan# 21

Delta R.T. 0.005 min

Lab File: BM041756.D

Acq: 09 Sep 2023 19:19

Instrument :

BNA\_M

ClientSampleId :

BHAS6

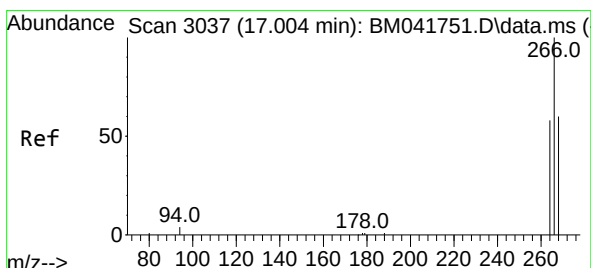
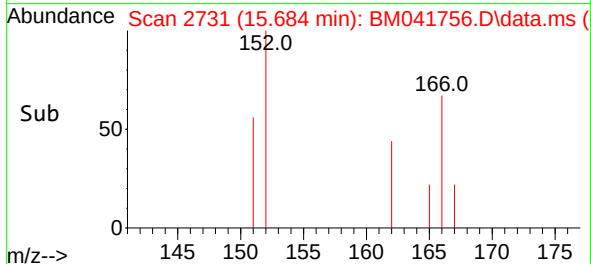
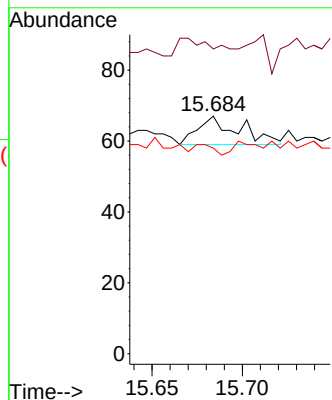
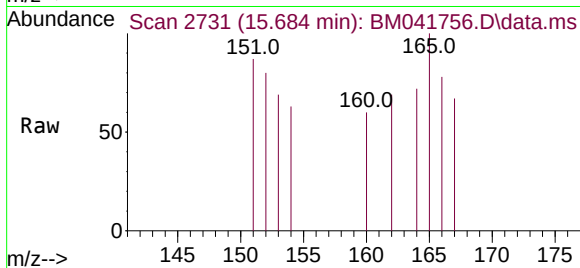
Tgt Ion:166 Resp: 13

Ion Ratio Lower Upper

166 100

165 128.4 79.4 119.2#

167 86.6 11.3 16.9#



#14

Pentachlorophenol

Concen: 0.057 ng/ul

RT: 16.995 min Scan# 3035

Delta R.T. -0.008 min

Lab File: BM041756.D

Acq: 09 Sep 2023 19:19

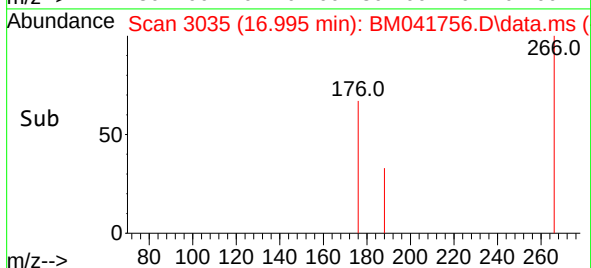
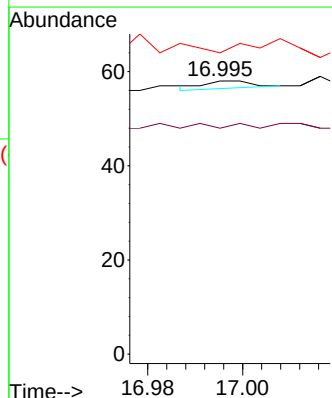
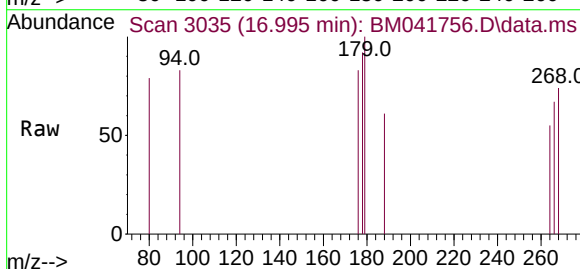
Tgt Ion:266 Resp: 1

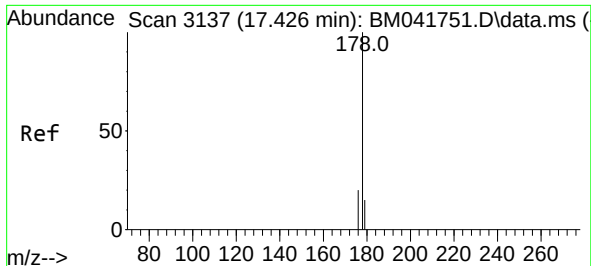
Ion Ratio Lower Upper

266 100

264 100.0 50.0 75.0#

268 300.0 50.8 76.2#

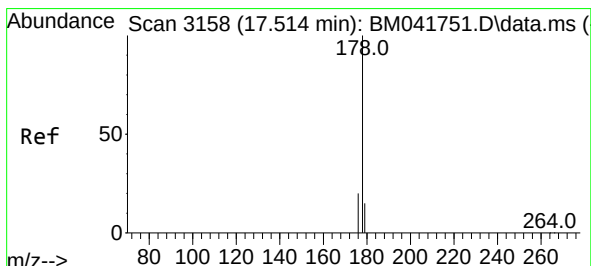
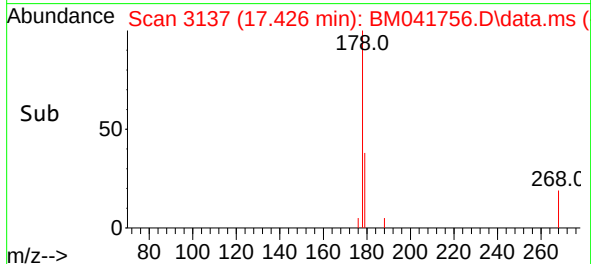
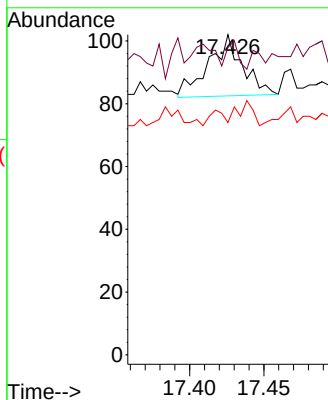
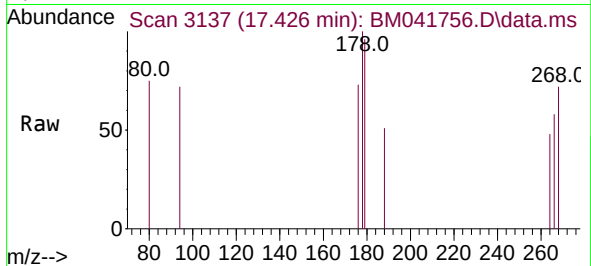




#15  
Phenanthrene  
Concen: 0.167 ng/ul  
RT: 17.426 min Scan# 3137  
Delta R.T. 0.000 min  
Lab File: BM041756.D  
Acq: 09 Sep 2023 19:19

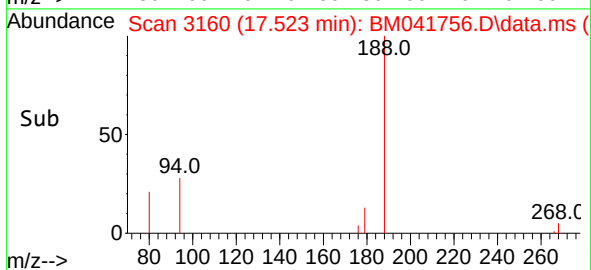
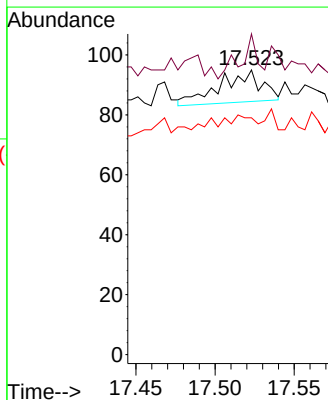
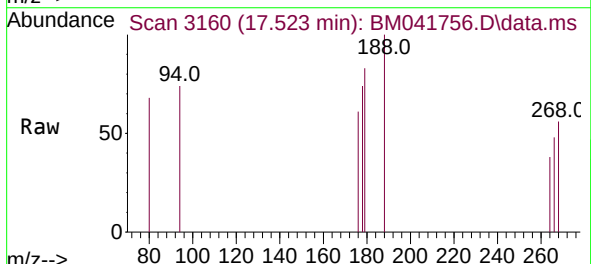
Instrument :  
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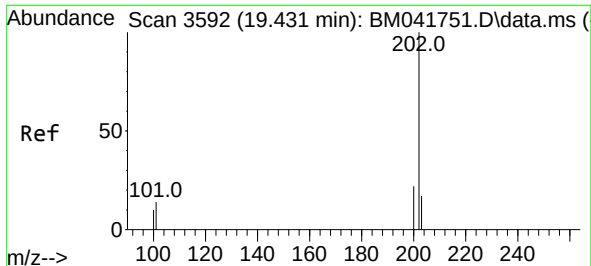
Tgt Ion:178 Resp: 31  
Ion Ratio Lower Upper  
178 100  
179 96.1 12.9 19.3#  
176 72.5 16.9 25.3#



#16  
Anthracene  
Concen: 0.126 ng/ul  
RT: 17.523 min Scan# 3160  
Delta R.T. 0.009 min  
Lab File: BM041756.D  
Acq: 09 Sep 2023 19:19

Tgt Ion:178 Resp: 20  
Ion Ratio Lower Upper  
178 100  
179 112.6 12.9 19.3#  
176 83.2 15.8 23.8#





#19

Fluoranthene

Concen: 0.097 ng/ul

RT: 19.431 min Scan# 3592

Delta R.T. 0.000 min

Lab File: BM041756.D

Acq: 09 Sep 2023 19:19

Instrument :

BNA\_M

ClientSampleId :

BHAS6

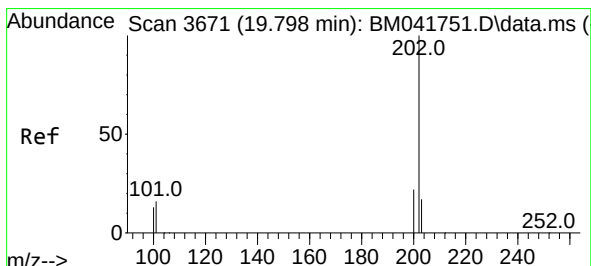
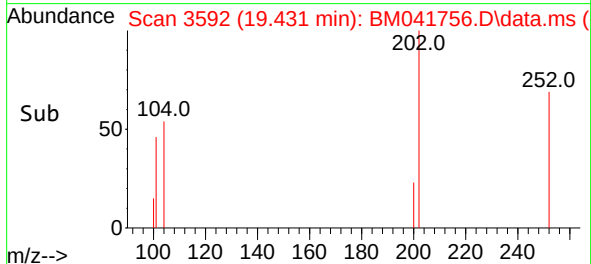
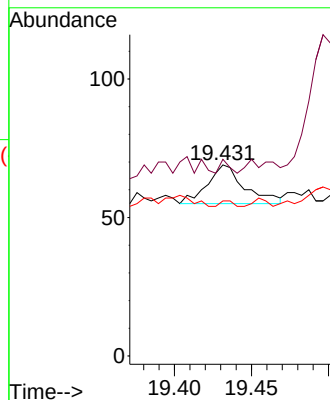
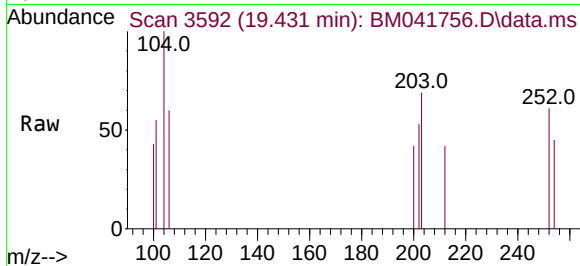
Tgt Ion:202 Resp: 23

Ion Ratio Lower Upper

202 100

101 102.9 10.5 15.7#

100 81.2 8.4 12.6#



#20

Pyrene

Concen: 0.073 ng/ul

RT: 19.799 min Scan# 3671

Delta R.T. 0.000 min

Lab File: BM041756.D

Acq: 09 Sep 2023 19:19

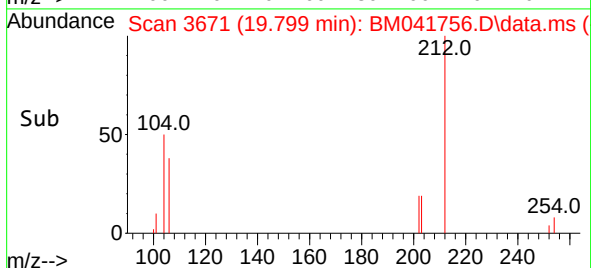
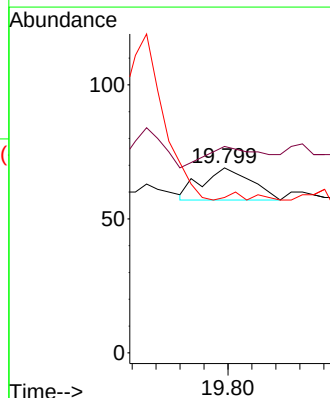
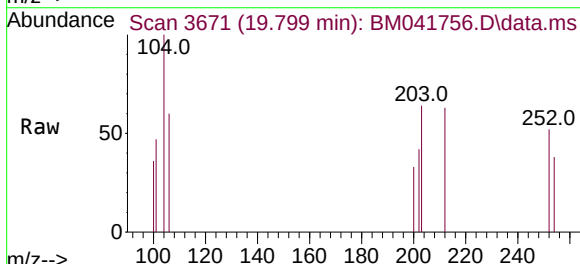
Tgt Ion:202 Resp: 17

Ion Ratio Lower Upper

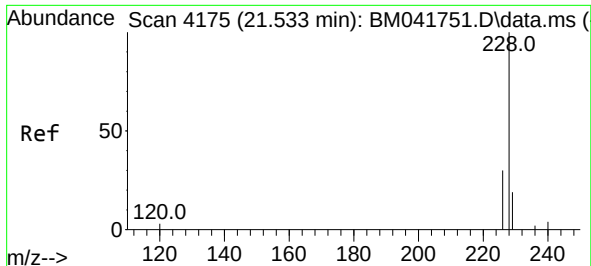
202 100

101 111.6 11.8 17.8#

100 84.1 9.8 14.6#



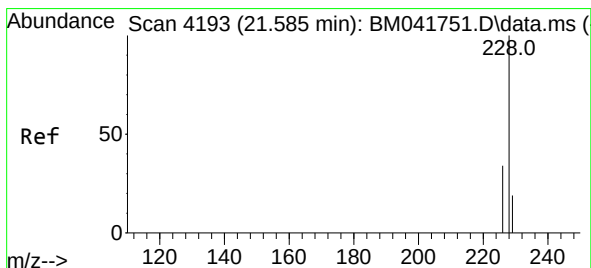
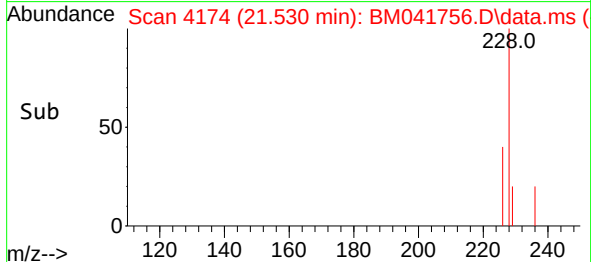
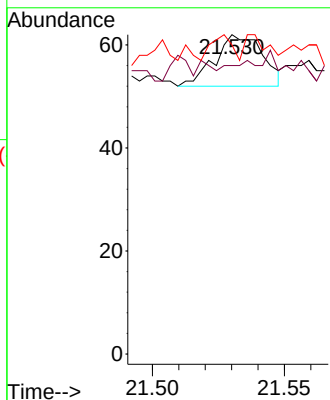
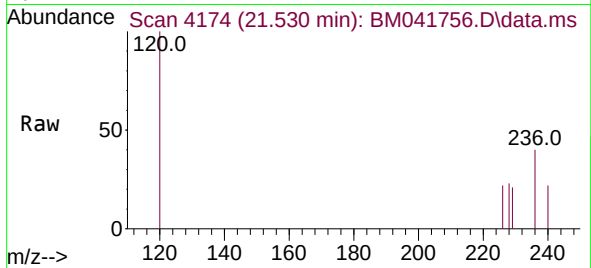




#21  
Benzo(a)anthracene  
Concen: 0.080 ng/ul  
RT: 21.530 min Scan# 4175  
Delta R.T. -0.003 min  
Lab File: BM041756.D  
Acq: 09 Sep 2023 19:19

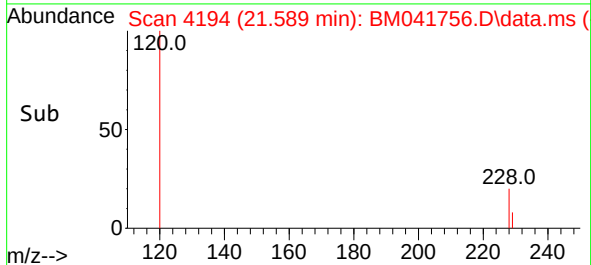
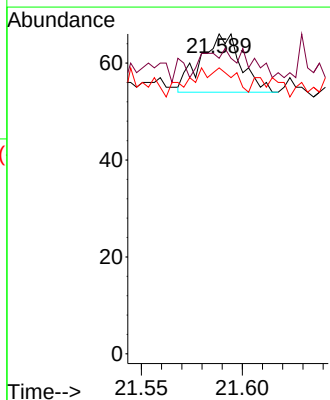
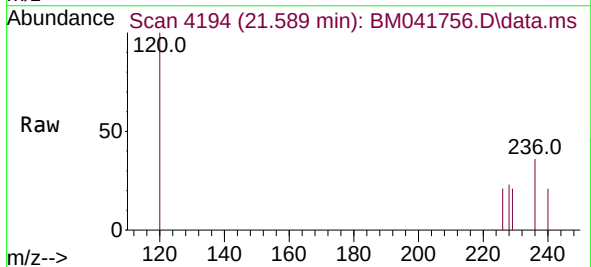
Instrument :  
BNA\_M  
ClientSampleId :  
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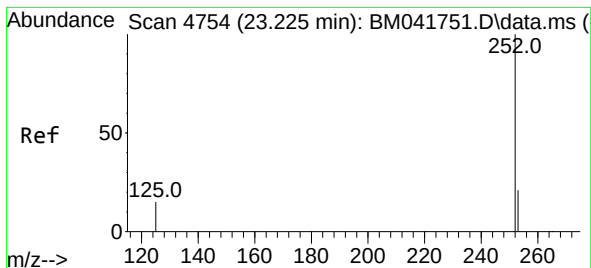
Tgt Ion:228 Resp: 13  
Ion Ratio Lower Upper  
228 100  
229 90.3 15.8 23.6#  
226 96.8 24.8 37.2#



#22  
Chrysene  
Concen: 0.091 ng/ul  
RT: 21.589 min Scan# 4194  
Delta R.T. 0.003 min  
Lab File: BM041756.D  
Acq: 09 Sep 2023 19:19

Tgt Ion:228 Resp: 16  
Ion Ratio Lower Upper  
228 100  
226 92.4 27.0 40.6#  
229 89.4 15.4 23.2#





#24

Benzo(b)fluoranthene

Concen: 1.192 ng/ul

RT: 23.219 min Scan# 41

Delta R.T. -0.006 min

Lab File: BM041756.D

Acq: 09 Sep 2023 19:19

Instrument :

BNA\_M

ClientSampleId :

BHAS6

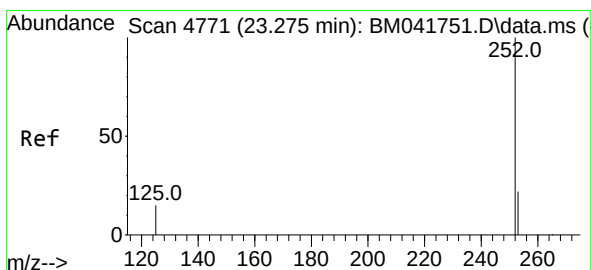
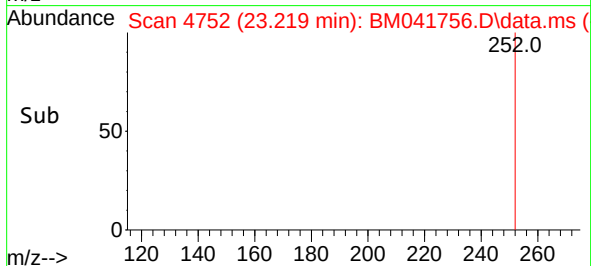
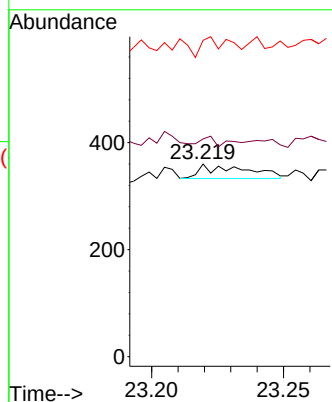
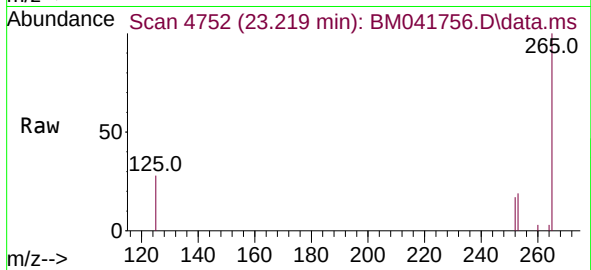
Tgt Ion:252 Resp: 32

Ion Ratio Lower Upper

252 100

253 113.1 0.0 52.4#

125 164.2 0.0 42.8#



#25

Benzo(k)fluoranthene

Concen: 0.495 ng/ul

RT: 23.263 min Scan# 4767

Delta R.T. -0.012 min

Lab File: BM041756.D

Acq: 09 Sep 2023 19:19

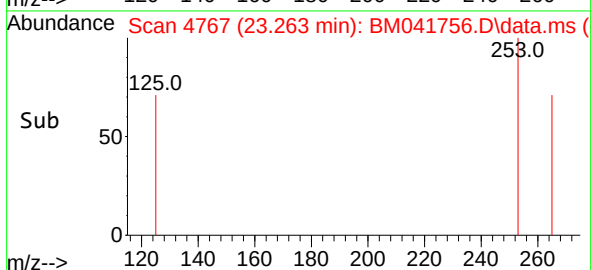
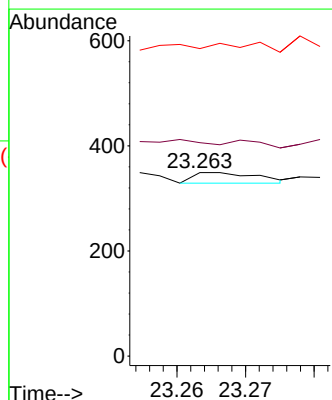
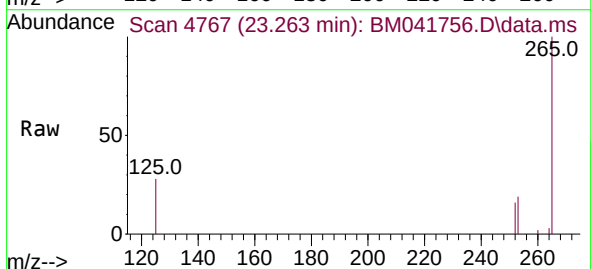
Tgt Ion:252 Resp: 13

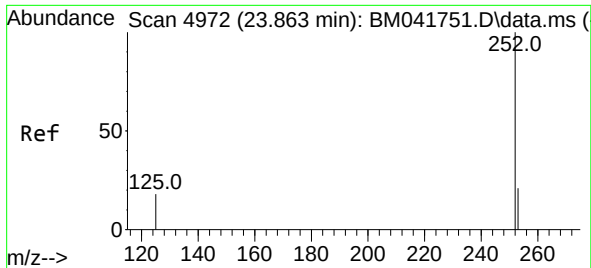
Ion Ratio Lower Upper

252 100

253 116.3 21.3 31.9#

125 167.6 17.4 26.0#

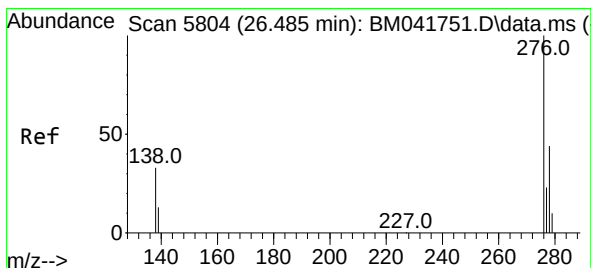
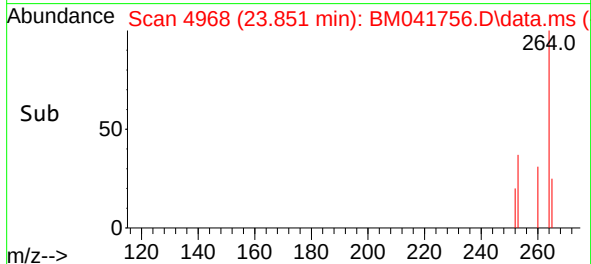
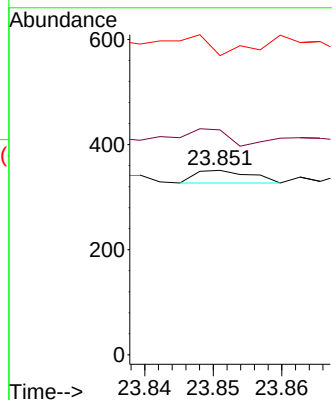
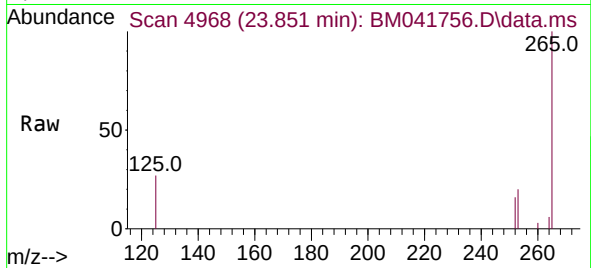




#26  
Benzo(a)pyrene  
Concen: 0.642 ng/ul  
RT: 23.851 min Scan# 4972  
Delta R.T. -0.012 min  
Lab File: BM041756.D  
Acq: 09 Sep 2023 19:19

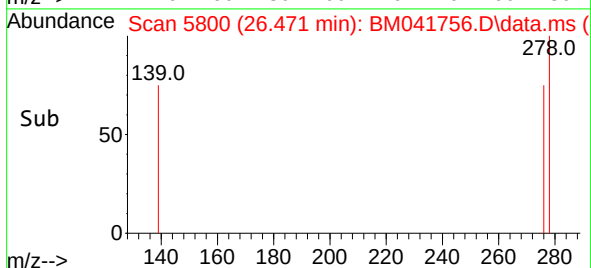
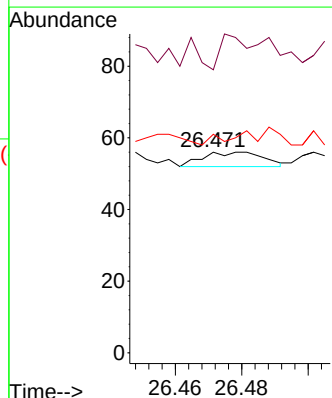
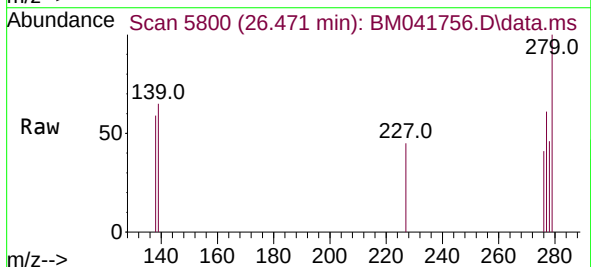
Instrument :  
BNA\_M  
ClientSampleId :  
BHAS6

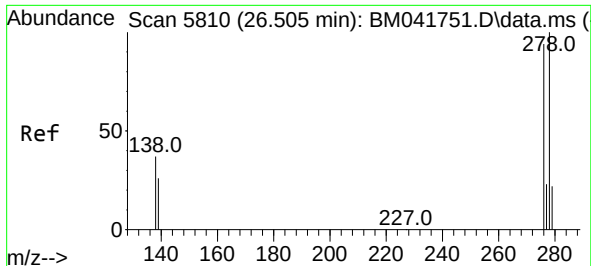
Tgt Ion:252 Resp: 14  
Ion Ratio Lower Upper  
252 100  
253 121.9 22.4 33.6#  
125 162.1 21.0 31.4#



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.167 ng/ul  
RT: 26.471 min Scan# 5800  
Delta R.T. -0.013 min  
Lab File: BM041756.D  
Acq: 09 Sep 2023 19:19

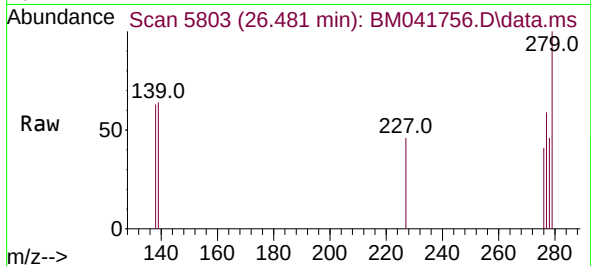
Tgt Ion:276 Resp: 5  
Ion Ratio Lower Upper  
276 100  
138 200.0 26.4 39.6#  
227 40.0 0.1 0.1#



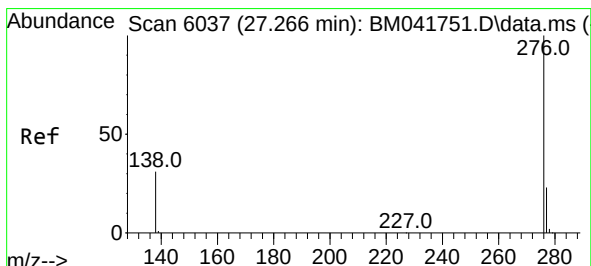
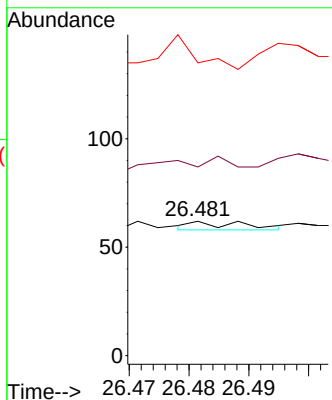
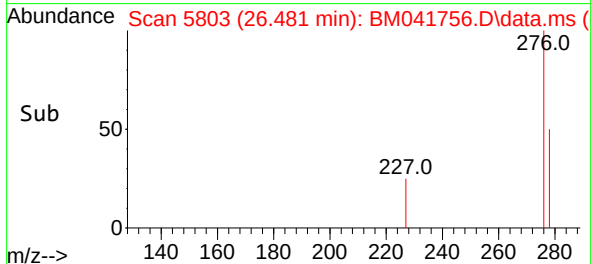


#28  
Dibenzo(a,h)anthracene  
Concen: 0.095 ng/ul  
RT: 26.481 min Scan# 5810  
Delta R.T. -0.023 min  
Lab File: BM041756.D  
Acq: 09 Sep 2023 19:19

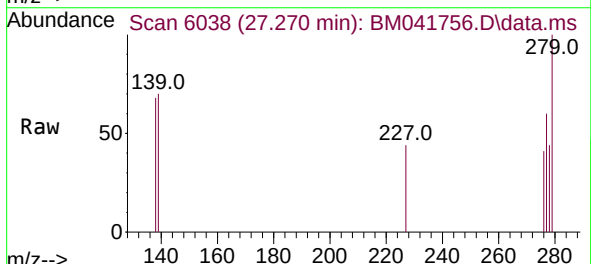
Instrument :  
BNA\_M  
ClientSampleId :  
BHAS6



Tgt Ion:278 Resp: 2  
Ion Ratio Lower Upper  
278 100  
139 140.3 23.0 34.6#  
279 217.7 22.9 34.3#



#29  
Benzo(g,h,i)perylene  
Concen: 0.038 ng/ul  
RT: 27.270 min Scan# 6038  
Delta R.T. 0.004 min  
Lab File: BM041756.D  
Acq: 09 Sep 2023 19:19



Tgt Ion:276 Resp: 1  
Ion Ratio Lower Upper  
276 100  
138 164.3 25.0 37.4#  
277 144.6 20.2 30.2#

