

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM092122\  
 Data File : BM036621.D  
 Acq On : 21 Sep 2022 12:47  
 Operator : CG/JU  
 Sample : N4604-18DL 5X  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A5778DL

Quant Time: Sep 21 22:48:09 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM091522.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Sep 21 22:42:41 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.022  | 152  | 454299   | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.833 | 136  | 2093255  | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.645 | 164  | 1349779  | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.386 | 188  | 2673331  | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.550 | 240  | 2065862  | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 23.997 | 264  | 1703495  | 20.000 | ng/u1  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.393  | 96   | 8965     | 0.740  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.810  | 84   | 126      | 0.004  | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 7.175  | 99   | 186065   | 4.583  | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.345  | 67   | 113483   | 4.603  | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.545  | 132  | 143605   | 4.913  | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.728  | 113  | 139684   | 4.656  | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 9.187  | 128  | 72397    | 5.110  | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.910  | 143  | 67813    | 5.343  | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.451 | 165  | 143387   | 4.875  | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.969 | 131  | 116005   | 2.372  | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 14.057 | 166  | 485324   | 5.331  | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.339 | 160  | 562529   | 5.209  | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.827 | 143  | 60022    | 3.399  | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.633 | 176  | 432380   | 5.300  | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.745 | 200  | 38435    | 3.634  | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.480 | 188  | 642504   | 5.256  | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.762 | 212  | 706184   | 6.948  | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.839 | 264  | 456379   | 5.484  | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 30) Naphthalene               | 10.886 | 128  | 248431   | 2.179  | ng/u1  | 99       |
| 36) 2-Methylnaphthalene       | 12.486 | 142  | 394202   | 5.188  | ng/u1  | 97       |
| 37) 1-Methylnaphthalene       | 12.704 | 142  | 405899   | 5.314  | ng/u1  | 100      |
| 50) Acenaphthylene            | 14.369 | 152  | 769876   | 6.236  | ng/u1  | 98       |
| 52) Acenaphthene              | 14.710 | 153  | 189645   | 2.195  | ng/u1  | 97       |
| 56) Dibenzofuran              | 15.045 | 168  | 588914   | 5.076  | ng/u1  | 95       |
| 61) Fluorene                  | 15.692 | 166  | 865726   | 8.762  | ng/u1  | 100      |
| 72) Phenanthrene              | 17.427 | 178  | 5888388  | 39.989 | ng/u1  | 98       |
| 74) Anthracene                | 17.515 | 178  | 1689874  | 11.291 | ng/u1  | 100      |
| 77) Carbazole                 | 17.780 | 167  | 346608   | 2.501  | ng/u1  | 97       |
| 80) Fluoranthene              | 19.433 | 202  | 4848767  | 38.933 | ng/u1  | 99       |
| 82) Pyrene                    | 19.798 | 202  | 3957138  | 30.017 | ng/u1  | 100      |
| 85) Benzo(a)anthracene        | 21.539 | 228  | 2156835  | 16.663 | ng/u1  | 96       |
| 87) Chrysene                  | 21.592 | 228  | 1724867  | 14.039 | ng/u1  | 97       |
| 90) Benzo(b)fluoranthene      | 23.256 | 252  | 1435782  | 13.291 | ng/u1  | 97       |
| 91) Benzo(k)fluoranthene      | 23.256 | 252  | 1435782  | 13.302 | ng/u1# | 97       |
| 93) Benzo(a)pyrene            | 23.886 | 252  | 1000417  | 10.535 | ng/u1  | 97       |
| 94) Indeno(1,2,3-cd)pyrene    | 26.538 | 276  | 456089   | 4.113  | ng/u1  | 98       |
| 95) Dibenzo(a,h)anthracene    | 26.550 | 278  | 148995   | 1.481  | ng/u1# | 87       |
| 96) Benzo(g,h,i)perylene      | 27.315 | 276  | 330118   | 3.434  | ng/u1  | 98       |
| -----                         |        |      |          |        |        |          |

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

BNA M

ClientSampleId :

A5778DL

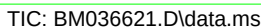
Quant Time: Sep 21 22:48:09 2022

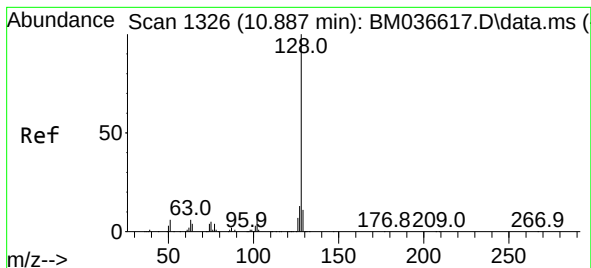
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM091522.M

Quant Title : SVOA CALIBRATION

QLast Update : Wed Sep 21 22:42:41 2022

Response via : Initial Calibration

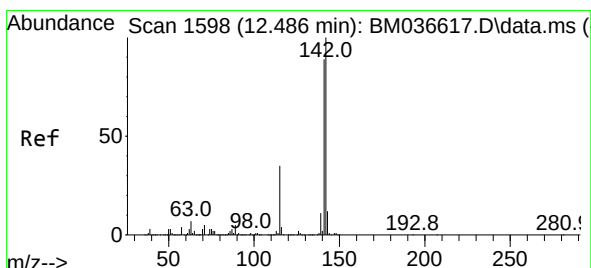
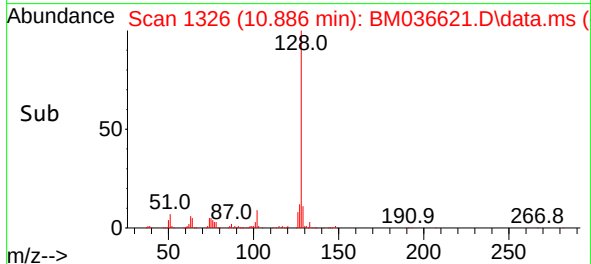
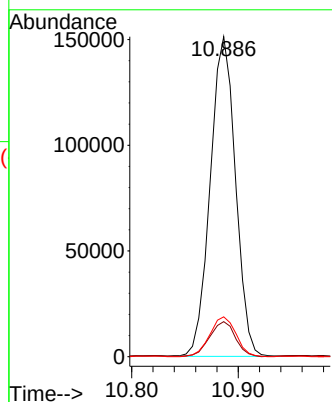
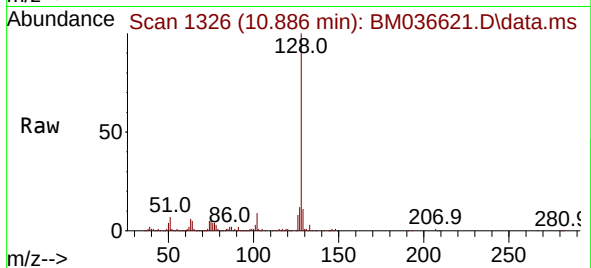




#30  
Naphthalene  
Concen: 2.179 ng/ul  
RT: 10.886 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BM036621.D  
Acq: 21 Sep 2022 12:47

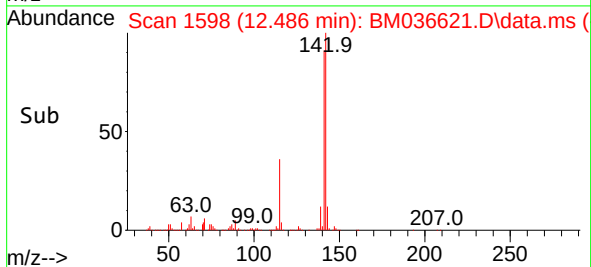
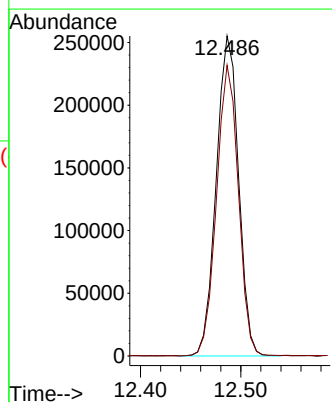
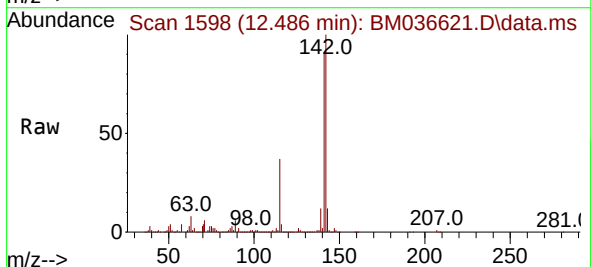
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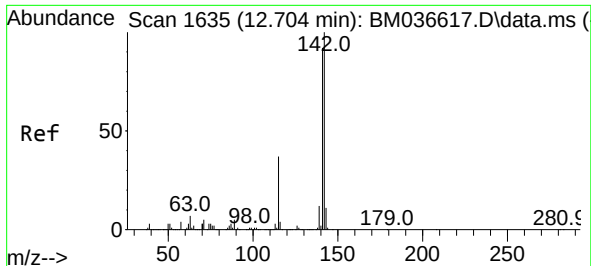
Tgt Ion:128 Resp: 248431  
Ion Ratio Lower Upper  
128 100  
129 11.0 8.7 13.1  
127 12.4 10.3 15.5



#36  
2-Methylnaphthalene  
Concen: 5.188 ng/ul  
RT: 12.486 min Scan# 1598  
Delta R.T. -0.000 min  
Lab File: BM036621.D  
Acq: 21 Sep 2022 12:47

Tgt Ion:142 Resp: 394202  
Ion Ratio Lower Upper  
142 100  
141 90.8 70.7 106.1

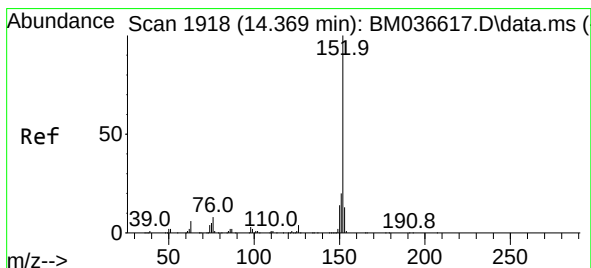
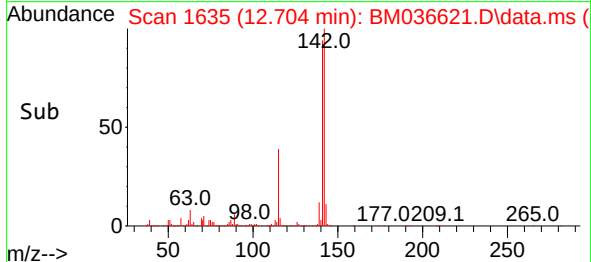
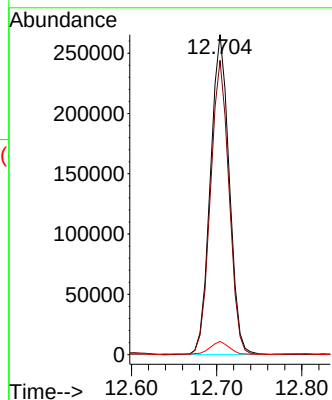
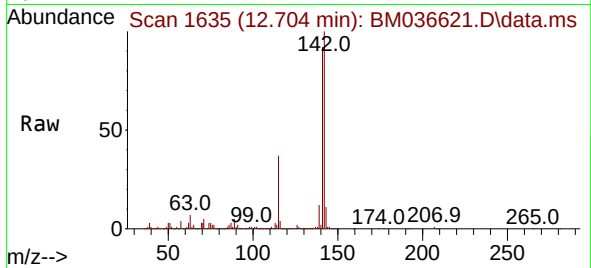




#37  
1-Methylnaphthalene  
Concen: 5.314 ng/ul  
RT: 12.704 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: BM036621.D  
Acq: 21 Sep 2022 12:47

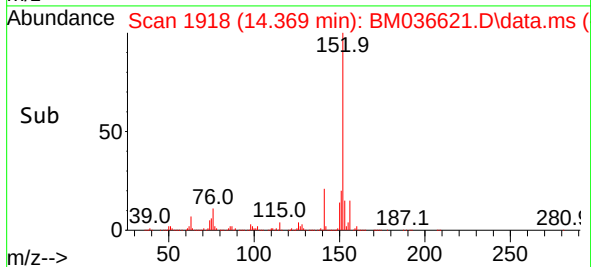
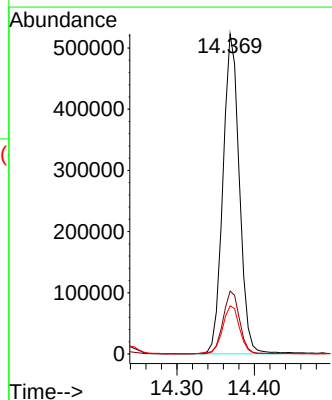
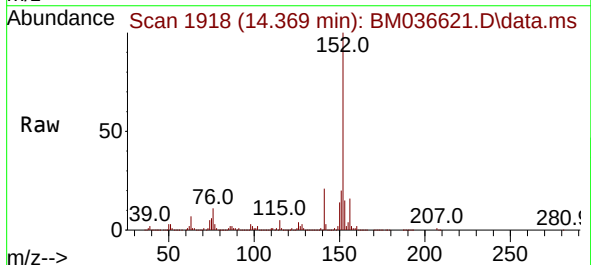
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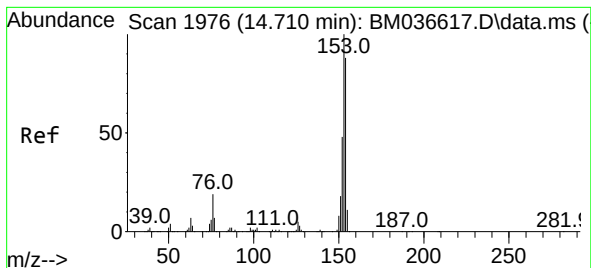
Tgt Ion:142 Resp: 405899  
Ion Ratio Lower Upper  
142 100  
141 92.0 73.4 110.2  
116 4.2 3.1 4.7



#50  
Acenaphthylene  
Concen: 6.236 ng/ul  
RT: 14.369 min Scan# 1918  
Delta R.T. -0.000 min  
Lab File: BM036621.D  
Acq: 21 Sep 2022 12:47

Tgt Ion:152 Resp: 769876  
Ion Ratio Lower Upper  
152 100  
151 19.7 15.7 23.5  
153 15.1 10.5 15.7





#52

Acenaphthene

Concen: 2.195 ng/ul

RT: 14.710 min Scan# 1976

Delta R.T. -0.000 min

Lab File: BM036621.D

Acq: 21 Sep 2022 12:47

Instrument :

BNA\_M

ClientSampleId :

A5778DL

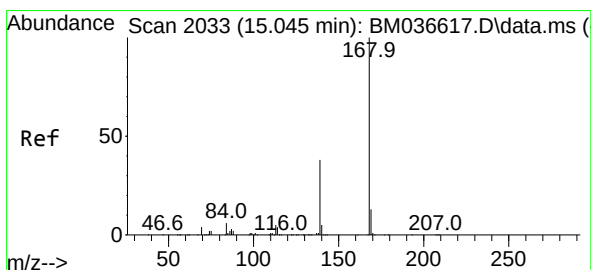
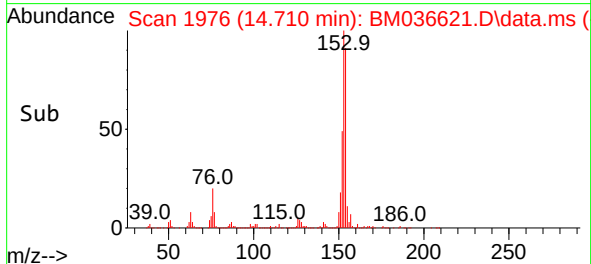
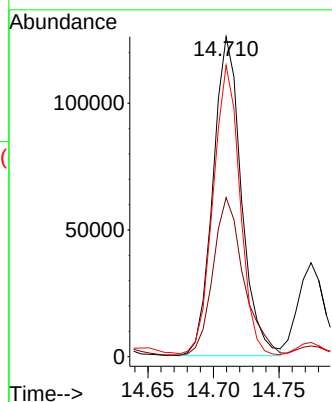
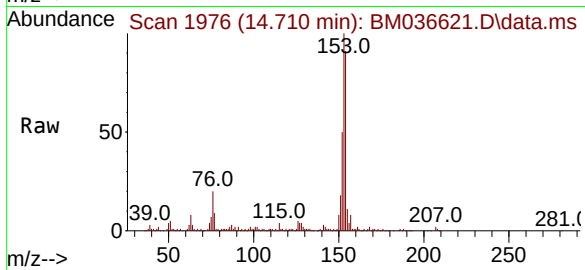
Tgt Ion:153 Resp: 189645

Ion Ratio Lower Upper

153 100

152 49.7 38.2 57.2

154 91.1 71.0 106.6



#56

Dibenzofuran

Concen: 5.076 ng/ul

RT: 15.045 min Scan# 2033

Delta R.T. -0.000 min

Lab File: BM036621.D

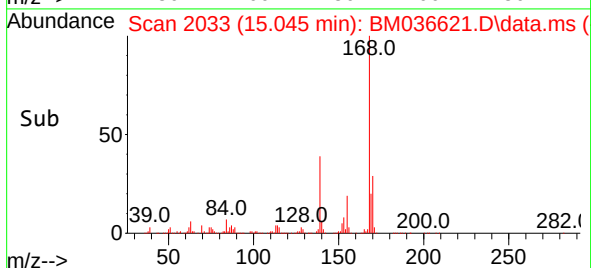
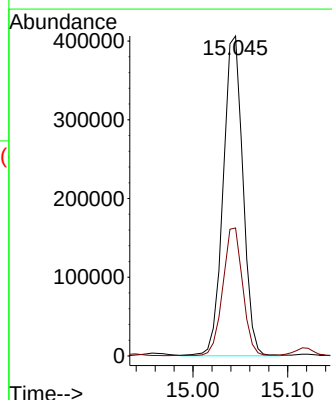
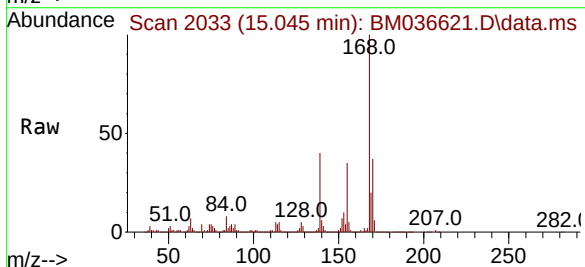
Acq: 21 Sep 2022 12:47

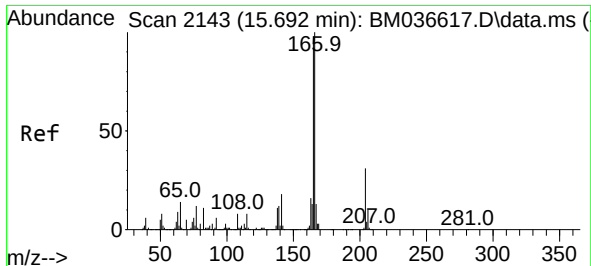
Tgt Ion:168 Resp: 588914

Ion Ratio Lower Upper

168 100

139 40.0 29.7 44.5

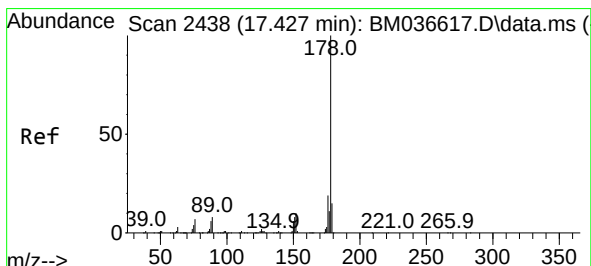
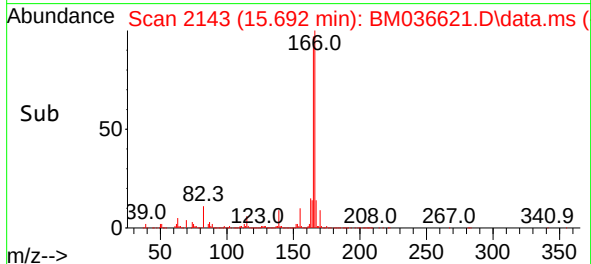
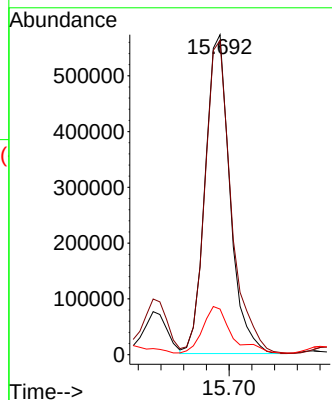
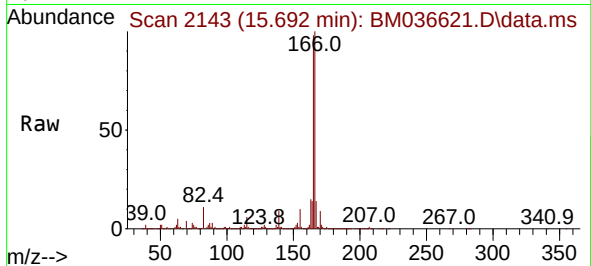




#61  
Fluorene  
Concen: 8.762 ng/ul  
RT: 15.692 min Scan# 2143  
Delta R.T. -0.000 min  
Lab File: BM036621.D  
Acq: 21 Sep 2022 12:47

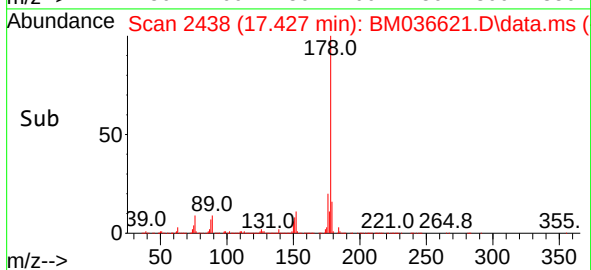
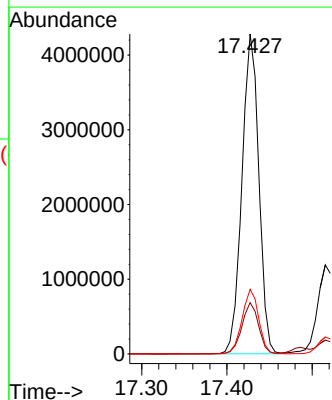
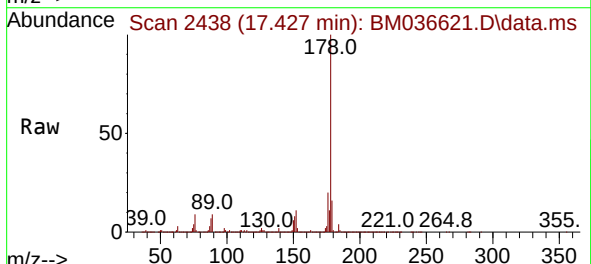
Instrument :  
BNA\_M  
ClientSampleId :  
A5778DL

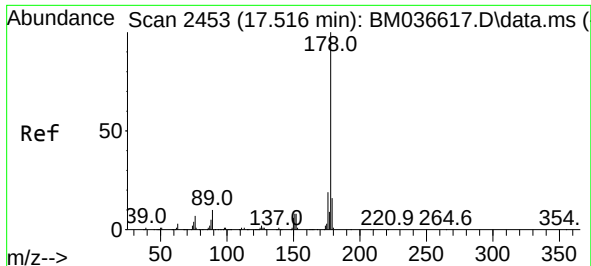
Tgt Ion:166 Resp: 865726  
Ion Ratio Lower Upper  
166 100  
165 98.2 78.5 117.7  
167 14.3 10.4 15.6



#72  
Phenanthrene  
Concen: 39.989 ng/ul  
RT: 17.427 min Scan# 2438  
Delta R.T. -0.000 min  
Lab File: BM036621.D  
Acq: 21 Sep 2022 12:47

Tgt Ion:178 Resp: 5888388  
Ion Ratio Lower Upper  
178 100  
179 16.1 12.2 18.2  
176 20.2 15.7 23.5

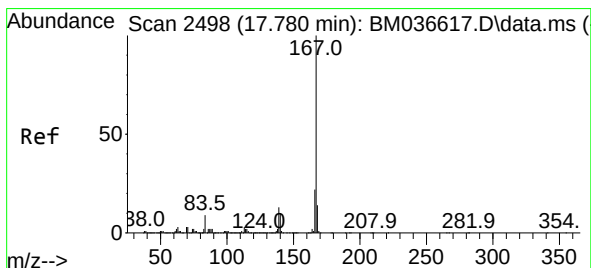
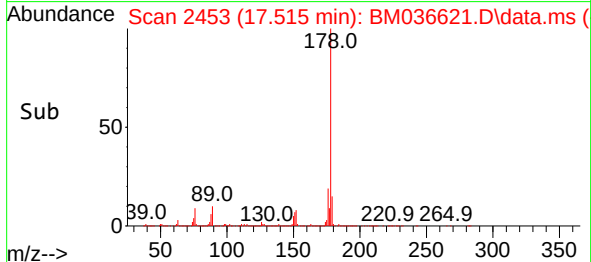
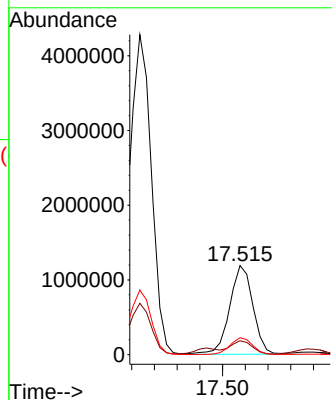
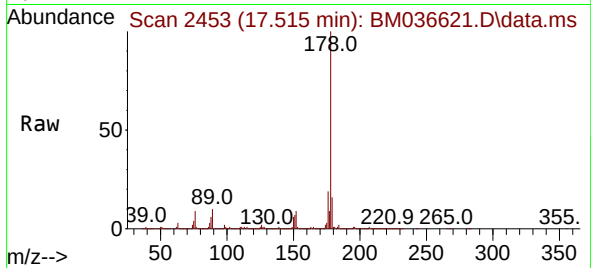




#74  
 Anthracene  
 Concen: 11.291 ng/ul  
 RT: 17.515 min Scan# 2453  
 Delta R.T. -0.000 min  
 Lab File: BM036621.D  
 Acq: 21 Sep 2022 12:47

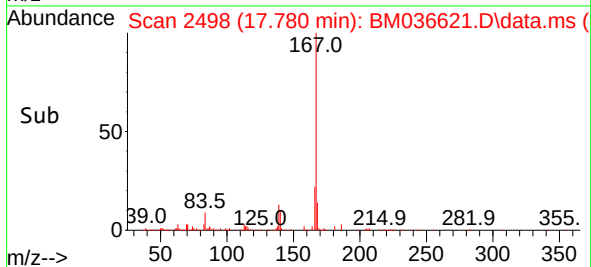
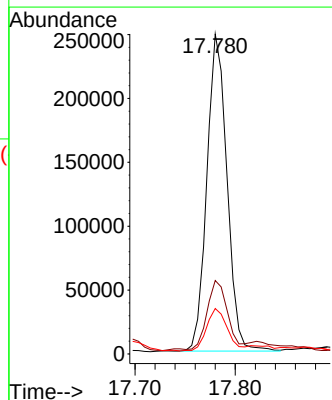
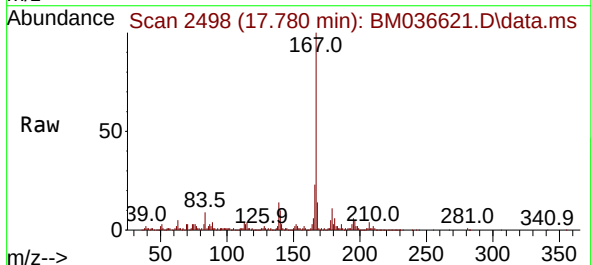
Instrument :  
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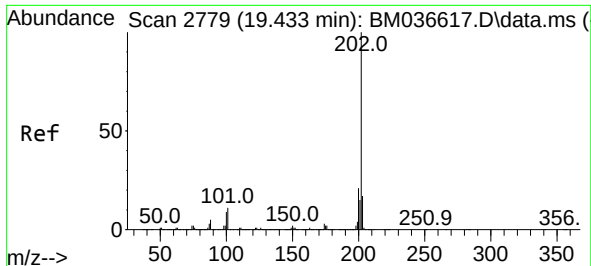
Tgt Ion:178 Resp: 1689874  
 Ion Ratio Lower Upper  
 178 100  
 179 15.6 12.3 18.5  
 176 19.0 15.0 22.6



#77  
 Carbazole  
 Concen: 2.501 ng/ul  
 RT: 17.780 min Scan# 2498  
 Delta R.T. -0.000 min  
 Lab File: BM036621.D  
 Acq: 21 Sep 2022 12:47

Tgt Ion:167 Resp: 346608  
 Ion Ratio Lower Upper  
 167 100  
 166 22.9 17.2 25.8  
 139 14.2 10.6 15.8

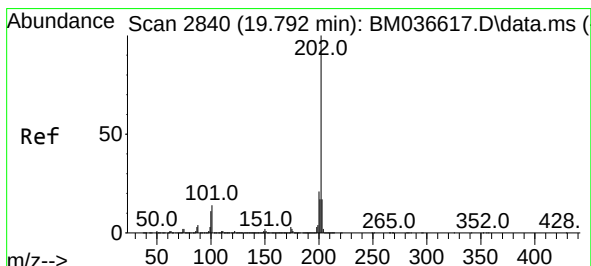
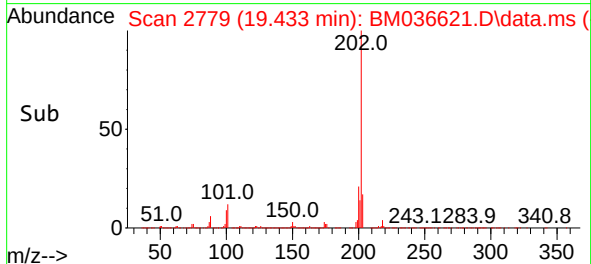
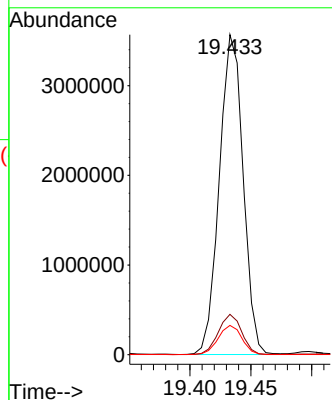
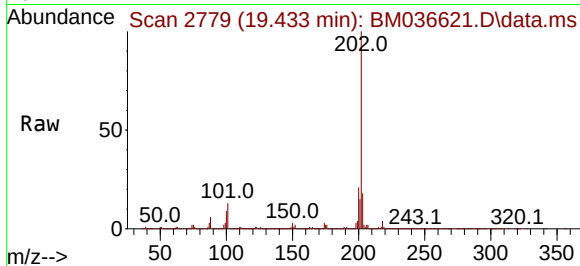




#80  
Fluoranthene  
Concen: 38.933 ng/ul  
RT: 19.433 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BM036621.D  
Acq: 21 Sep 2022 12:47

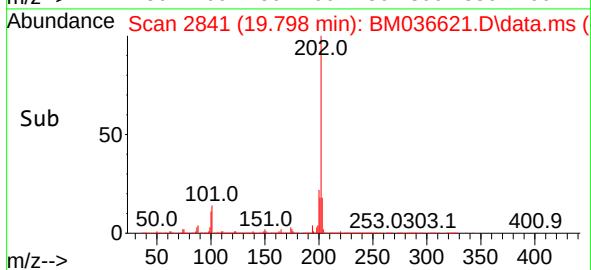
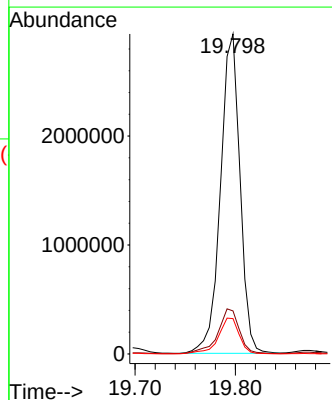
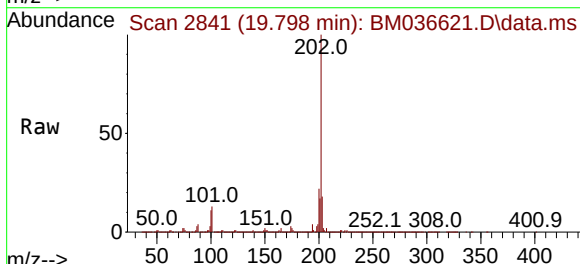
Instrument :  
BNA\_M  
ClientSampleId :  
A5778DL

Tgt Ion:202 Resp: 4848767  
Ion Ratio Lower Upper  
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100 9.2 7.4 11.2

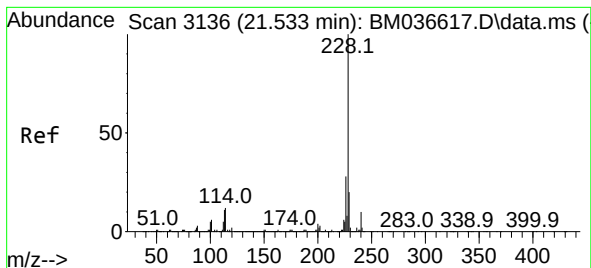


#82  
Pyrene  
Concen: 30.017 ng/ul  
RT: 19.798 min Scan# 2841  
Delta R.T. 0.006 min  
Lab File: BM036621.D  
Acq: 21 Sep 2022 12:47

Tgt Ion:202 Resp: 3957138  
Ion Ratio Lower Upper  
202 100  
101 13.5 10.9 16.3  
100 11.1 8.7 13.1







#85

Benzo(a)anthracene

Concen: 16.663 ng/ul

RT: 21.539 min Scan# 3136

Delta R.T. 0.006 min

Lab File: BM036621.D

Acq: 21 Sep 2022 12:47

Instrument :

BNA\_M

ClientSampleId :

A5778DL

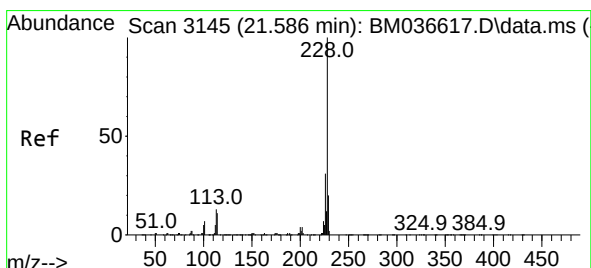
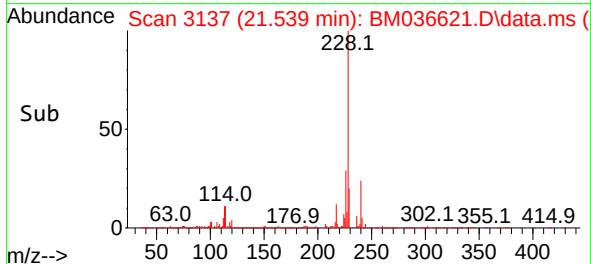
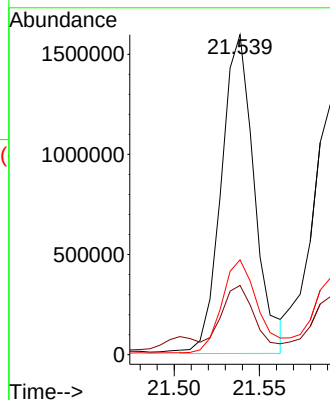
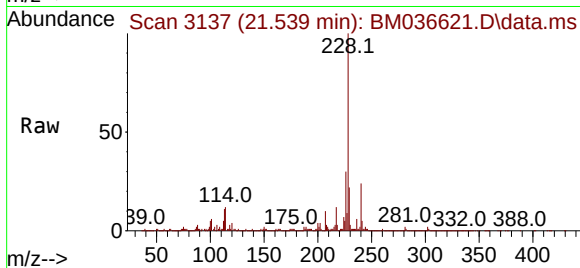
Tgt Ion:228 Resp: 2156835

Ion Ratio Lower Upper

228 100

229 21.6 15.8 23.8

226 29.6 21.9 32.9



#87

Chrysene

Concen: 14.039 ng/ul

RT: 21.592 min Scan# 3146

Delta R.T. 0.006 min

Lab File: BM036621.D

Acq: 21 Sep 2022 12:47

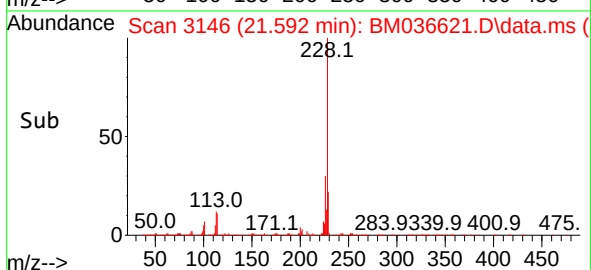
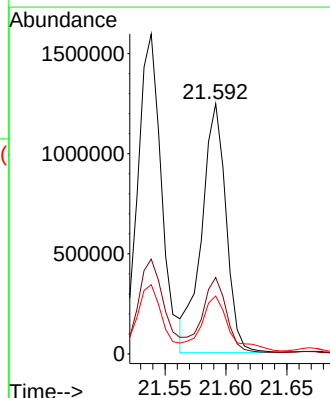
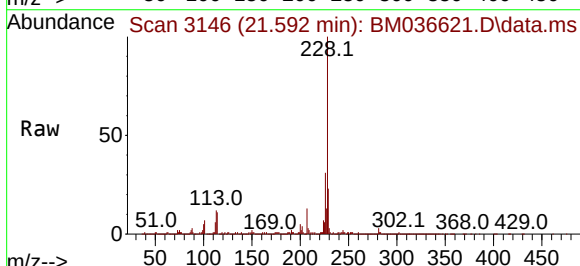
Tgt Ion:228 Resp: 1724867

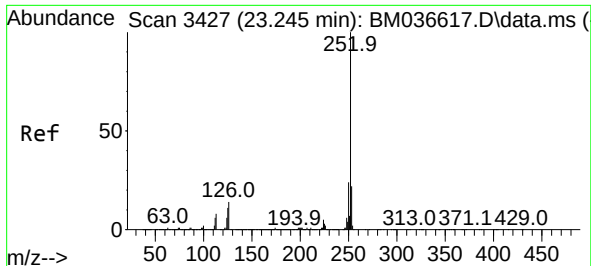
Ion Ratio Lower Upper

228 100

226 30.6 24.4 36.6

229 23.1 15.6 23.4

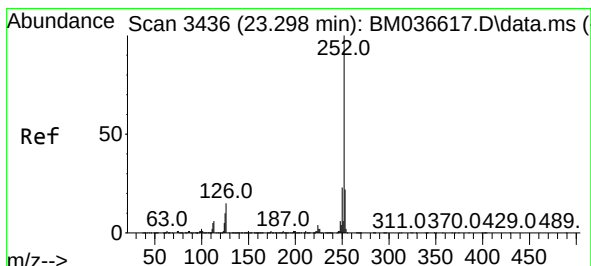
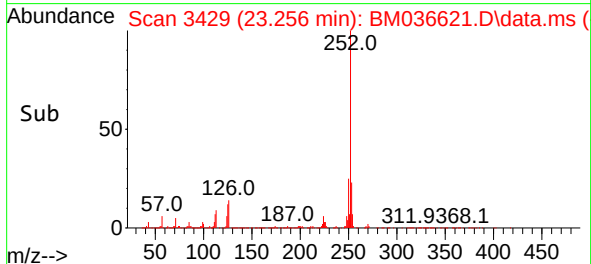
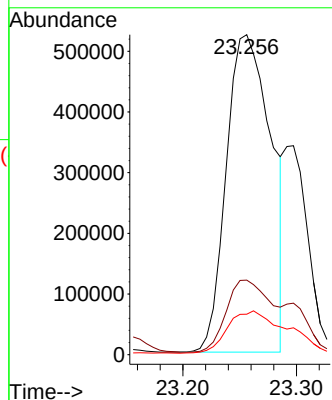
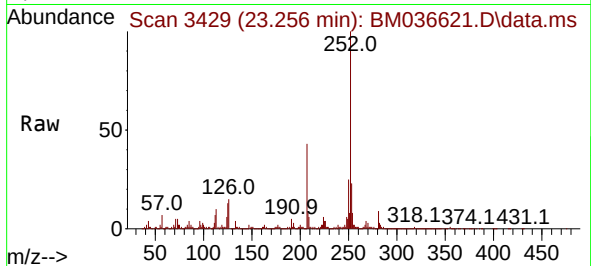




#90  
Benzo(b)fluoranthene  
Concen: 13.291 ng/ul  
RT: 23.256 min Scan# 3429  
Delta R.T. 0.012 min  
Lab File: BM036621.D  
Acq: 21 Sep 2022 12:47

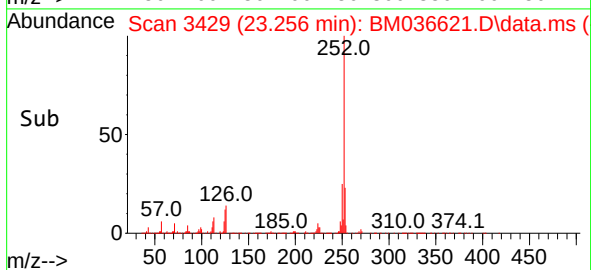
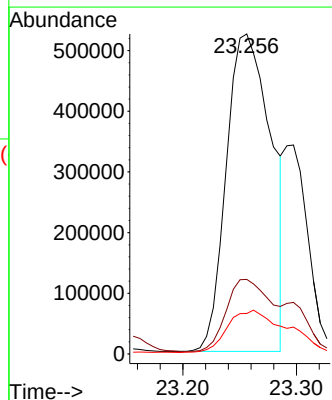
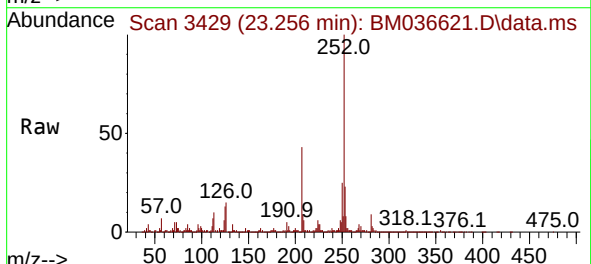
Instrument :  
BNA\_M  
ClientSampleId :  
A5778DL

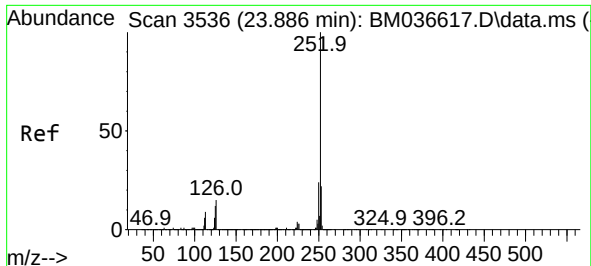
Tgt Ion:252 Resp: 1435782  
Ion Ratio Lower Upper  
252 100  
253 23.3 17.6 26.4  
125 12.7 9.1 13.7



#91  
Benzo(k)fluoranthene  
Concen: 13.302 ng/ul  
RT: 23.256 min Scan# 3429  
Delta R.T. -0.041 min  
Lab File: BM036621.D  
Acq: 21 Sep 2022 12:47

Tgt Ion:252 Resp: 1435782  
Ion Ratio Lower Upper  
252 100  
253 23.3 17.8 26.8  
125 12.7 8.2 12.4#

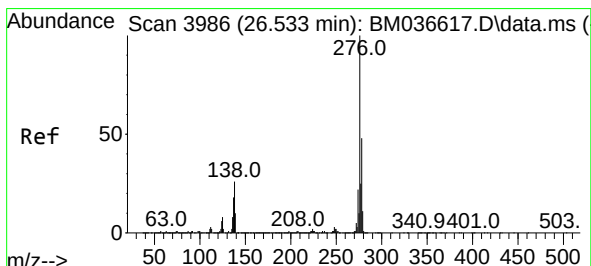
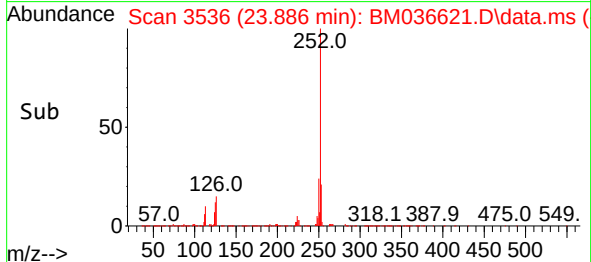
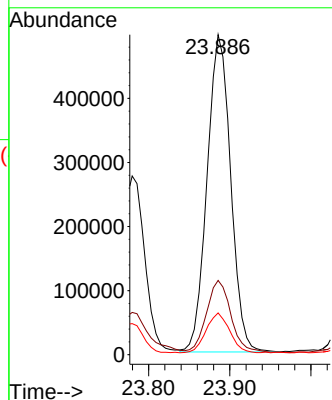
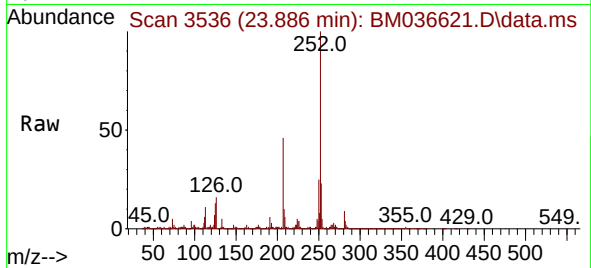




#93  
Benzo(a)pyrene  
Concen: 10.535 ng/ul  
RT: 23.886 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: BM036621.D  
Acq: 21 Sep 2022 12:47

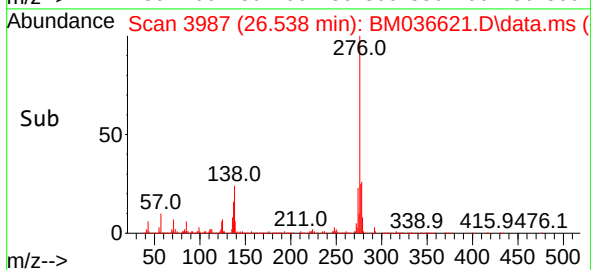
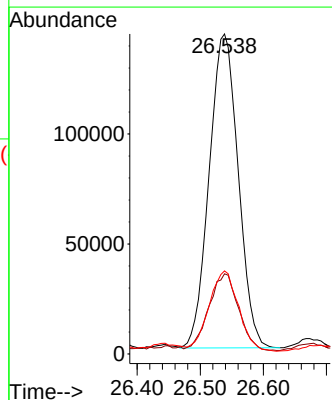
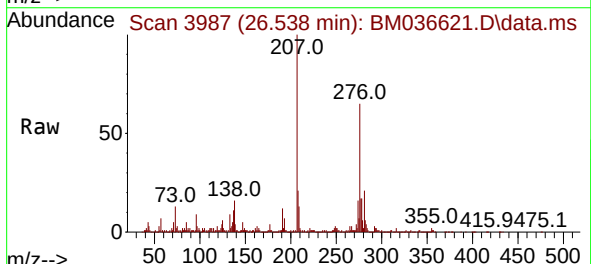
Instrument :  
BNA\_M  
ClientSampleId :  
A5778DL

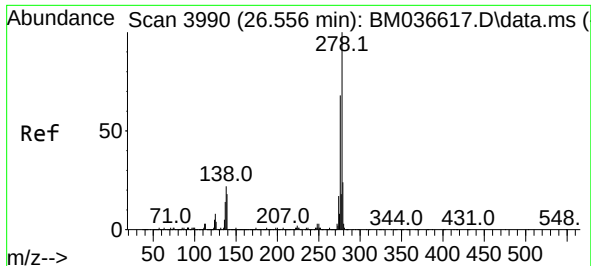
Tgt Ion:252 Resp: 1000417  
Ion Ratio Lower Upper  
252 100  
253 23.2 17.5 26.3  
125 13.0 9.5 14.3



#94  
Indeno(1,2,3-cd)pyrene  
Concen: 4.113 ng/ul  
RT: 26.538 min Scan# 3987  
Delta R.T. 0.006 min  
Lab File: BM036621.D  
Acq: 21 Sep 2022 12:47

Tgt Ion:276 Resp: 456089  
Ion Ratio Lower Upper  
276 100  
138 25.0 20.2 30.4  
277 26.0 19.7 29.5

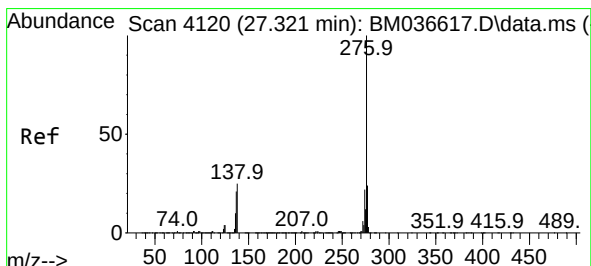
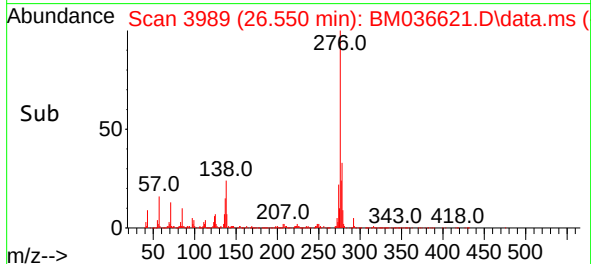
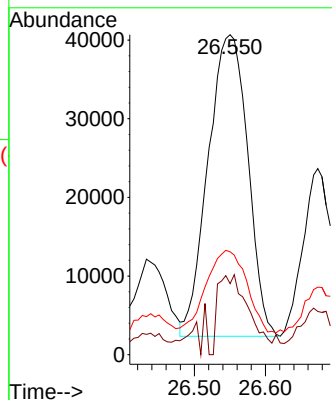
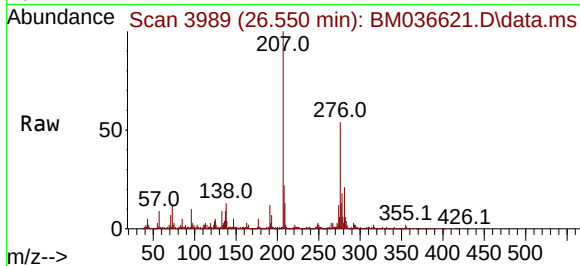




#95  
 Dibenzo(a,h)anthracene  
 Concen: 1.481 ng/ul  
 RT: 26.550 min Scan# 3990  
 Delta R.T. -0.006 min  
 Lab File: BM036621.D  
 Acq: 21 Sep 2022 12:47

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A5778DL

Tgt Ion:278 Resp: 148995  
 Ion Ratio Lower Upper  
 278 100  
 139 22.2 14.5 21.7#  
 279 32.2 19.7 29.5#



#96  
 Benzo(g,h,i)perylene  
 Concen: 3.434 ng/ul  
 RT: 27.315 min Scan# 4119  
 Delta R.T. -0.006 min  
 Lab File: BM036621.D  
 Acq: 21 Sep 2022 12:47

Tgt Ion:276 Resp: 330118  
 Ion Ratio Lower Upper  
 276 100  
 138 24.9 18.7 28.1  
 277 24.0 19.2 28.8

