

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM113023\  
 Data File : BM043152.D  
 Acq On : 02 Dec 2023 10:22  
 Operator : MA/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 71 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD0.4147

Quant Time: Dec 02 22:41:14 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM112423.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Dec 02 01:12:12 2023  
 Response via : Initial Calibration

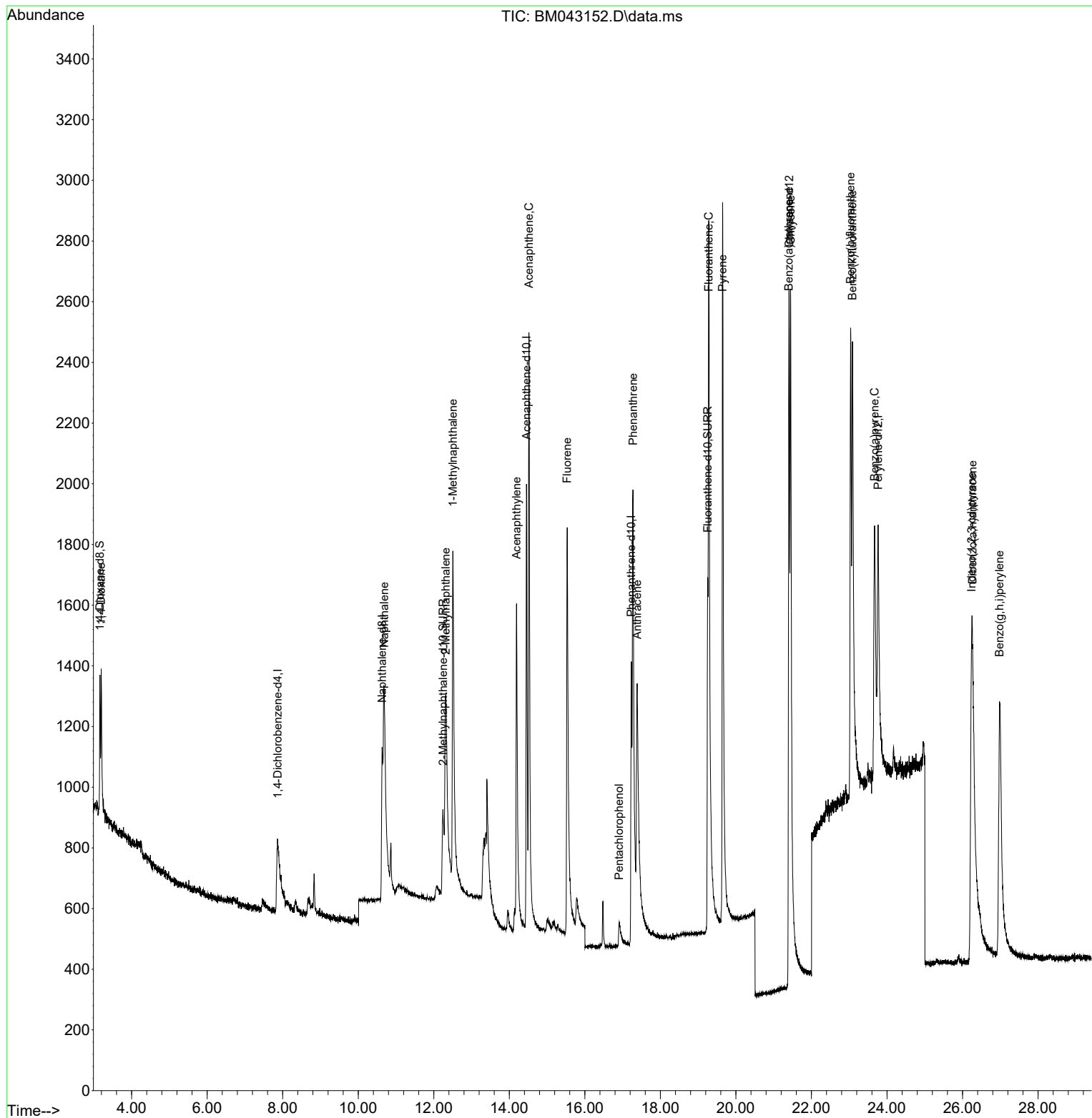
| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.868  | 152  | 516      | 0.400 | ng/ul  | 0.04     |
| 4) Naphthalene-d8           | 10.633 | 136  | 1911     | 0.400 | ng/ul  | 0.02     |
| 9) Acenaphthene-d10         | 14.455 | 164  | 1116     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.229 | 188  | 2390     | 0.400 | ng/ul  | 0.01     |
| 17) Chrysene-d12            | 21.409 | 240  | 1604     | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.762 | 264  | 1701     | 0.400 | ng/ul  | 0.00     |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.160  | 96   | 439      | 0.554 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.244 | 152  | 1041     | 0.407 | ng/ul  | 0.02     |
| 18) Fluoranthene-d10        | 19.252 | 212  | 2380     | 0.407 | ng/ul  | 0.01     |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 2) 1,4-Dioxane              | 3.193  | 88   | 395      | 0.465 | ng/ul  | 100      |
| 5) Naphthalene              | 10.688 | 128  | 2057     | 0.396 | ng/ul  | 97       |
| 7) 2-Methylnaphthalene      | 12.316 | 142  | 1196     | 0.390 | ng/ul  | 98       |
| 8) 1-Methylnaphthalene      | 12.508 | 142  | 1312     | 0.384 | ng/ul  | 98       |
| 10) Acenaphthylene          | 14.191 | 152  | 2179     | 0.383 | ng/ul  | 99       |
| 11) Acenaphthene            | 14.519 | 153  | 1671     | 0.387 | ng/ul  | 96       |
| 12) Fluorene                | 15.532 | 166  | 1757     | 0.397 | ng/ul  | 97       |
| 14) Pentachlorophenol       | 16.908 | 266  | 185      | 0.286 | ng/ul  | 86       |
| 15) Phenanthrene            | 17.275 | 178  | 2640     | 0.387 | ng/ul  | 98       |
| 16) Anthracene              | 17.385 | 178  | 2701     | 0.418 | ng/ul  | 97       |
| 19) Fluoranthene            | 19.280 | 202  | 3515     | 0.387 | ng/ul  | 99       |
| 20) Pyrene                  | 19.647 | 202  | 3760     | 0.389 | ng/ul  | 99       |
| 21) Benzo(a)anthracene      | 21.400 | 228  | 2241     | 0.431 | ng/ul  | 99       |
| 22) Chrysene                | 21.447 | 228  | 3763     | 0.388 | ng/ul  | 98       |
| 24) Benzo(b)fluoranthene    | 23.037 | 252  | 2593     | 0.452 | ng/ul  | 97       |
| 25) Benzo(k)fluoranthene    | 23.084 | 252  | 3490     | 0.441 | ng/ul  | 96       |
| 26) Benzo(a)pyrene          | 23.671 | 252  | 2587     | 0.413 | ng/ul  | 95       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.239 | 276  | 3272     | 0.386 | ng/ul# | 100      |
| 28) Dibenzo(a,h)anthracene  | 26.262 | 278  | 2434     | 0.371 | ng/ul  | 98       |
| 29) Benzo(g,h,i)perylene    | 26.980 | 276  | 3291     | 0.399 | ng/ul  | 98       |

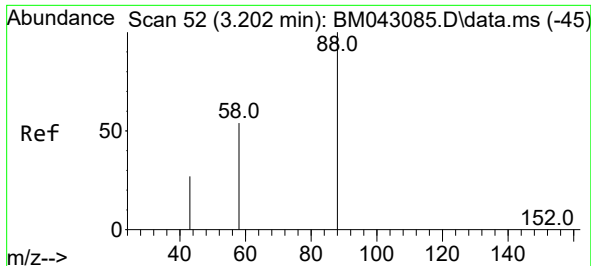
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM113023\  
Data File : BM043152.D  
Acq On : 02 Dec 2023 10:22  
Operator : MA/JU  
Sample : SSTDC00.4  
Misc :  
ALS Vial : 71 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
SSTD0.4147

Quant Time: Dec 02 22:41:14 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM112423.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Dec 02 01:12:12 2023  
Response via : Initial Calibration

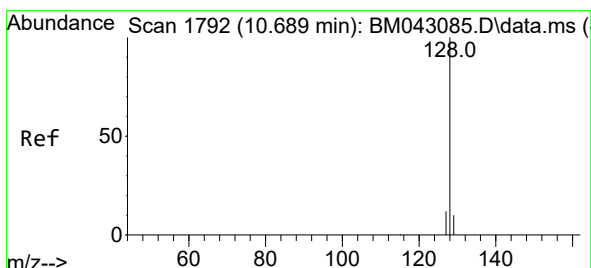
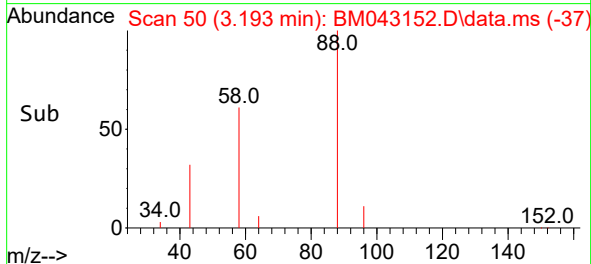
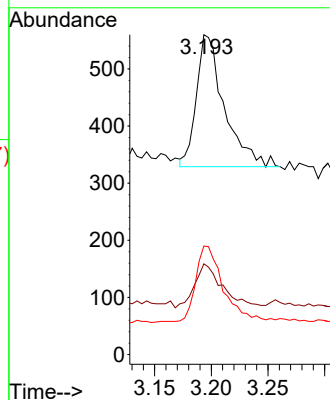
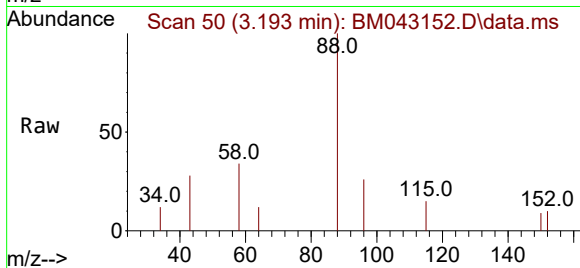




#2  
1,4-Dioxane  
Concen: 0.465 ng/ul  
RT: 3.193 min Scan# 50  
Delta R.T. -0.004 min  
Lab File: BM043152.D  
Acq: 02 Dec 2023 10:22

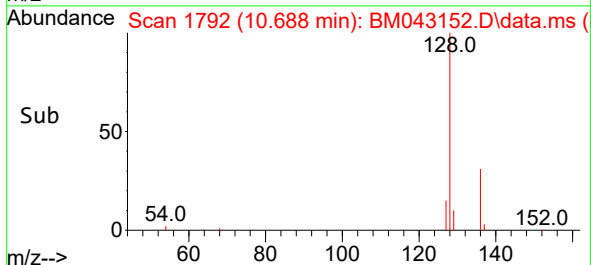
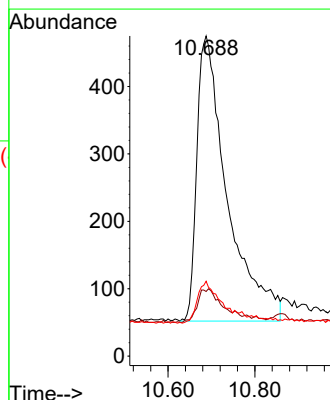
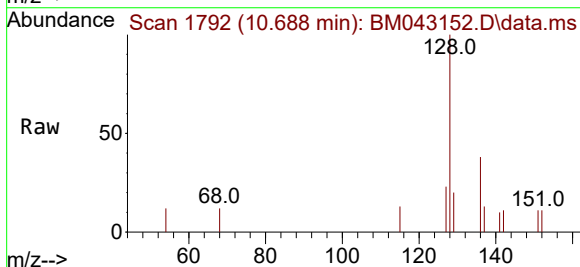
Instrument :  
BNA\_M  
ClientSampleId :  
SSTD0.4147

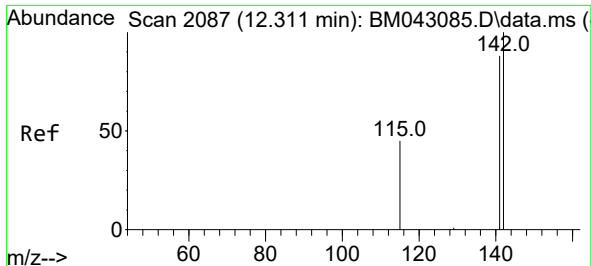
Tgt Ion: 88 Resp: 395  
Ion Ratio Lower Upper  
88 100  
43 28.4 22.8 34.2  
58 33.9 26.8 40.2



#5  
Naphthalene  
Concen: 0.396 ng/ul  
RT: 10.688 min Scan# 1792  
Delta R.T. 0.021 min  
Lab File: BM043152.D  
Acq: 02 Dec 2023 10:22

Tgt Ion: 128 Resp: 2057  
Ion Ratio Lower Upper  
128 100  
129 20.2 16.0 24.0  
127 23.4 16.5 24.7

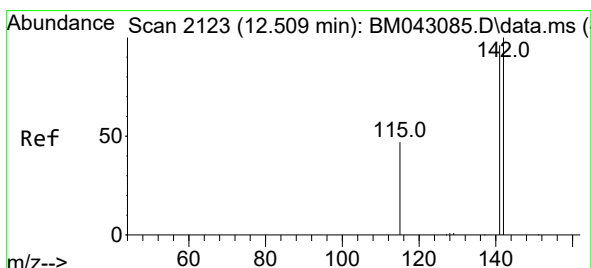
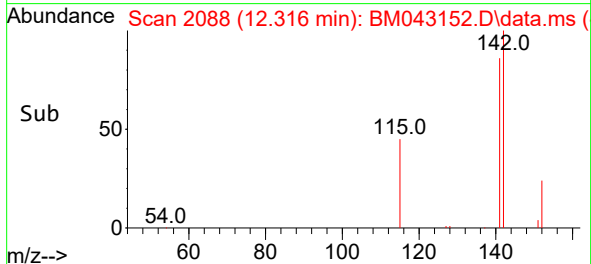
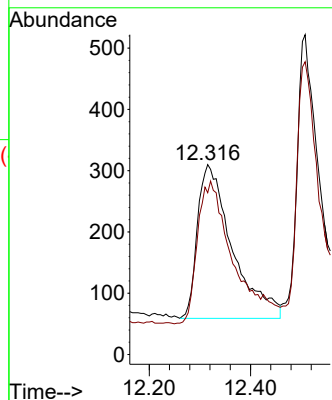
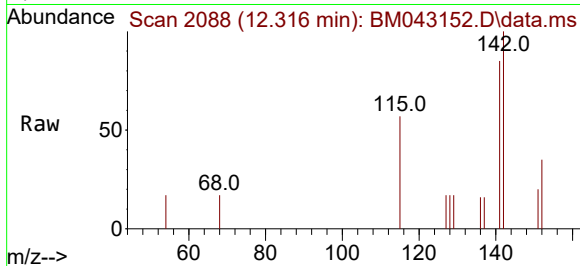




#7  
2-Methylnaphthalene  
Concen: 0.390 ng/ul  
RT: 12.316 min Scan# 2087  
Delta R.T. 0.021 min  
Lab File: BM043152.D  
Acq: 02 Dec 2023 10:22

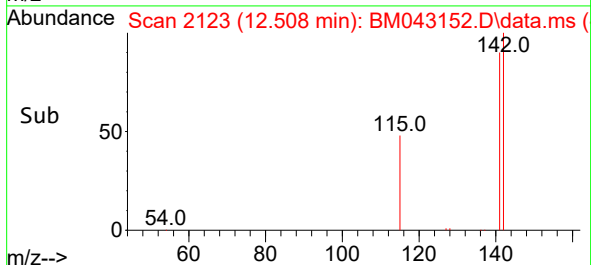
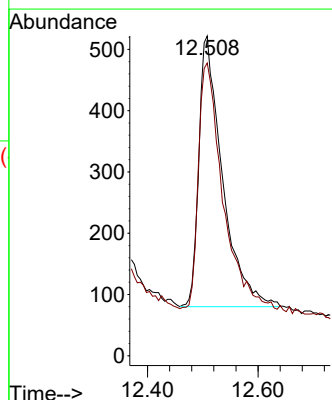
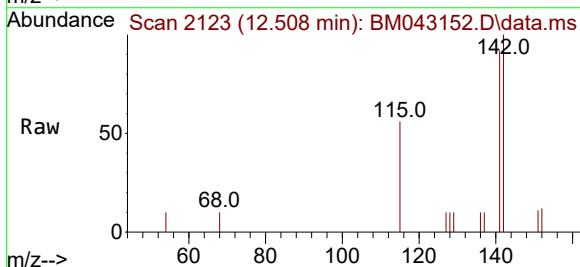
Instrument :  
BNA\_M  
ClientSampleId :  
SSTD0.4147

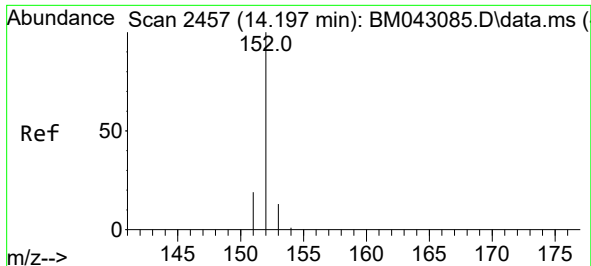
Tgt Ion:142 Resp: 1196  
Ion Ratio Lower Upper  
142 100  
141 96.8 76.1 114.1



#8  
1-Methylnaphthalene  
Concen: 0.384 ng/ul  
RT: 12.508 min Scan# 2123  
Delta R.T. 0.010 min  
Lab File: BM043152.D  
Acq: 02 Dec 2023 10:22

Tgt Ion:142 Resp: 1312  
Ion Ratio Lower Upper  
142 100  
141 94.6 73.8 110.8

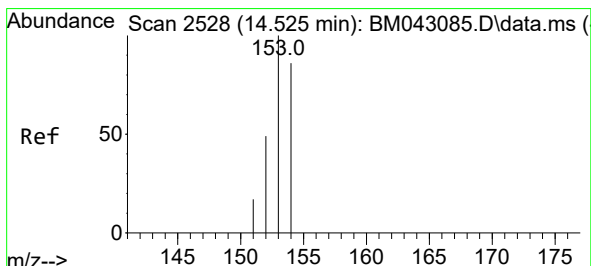
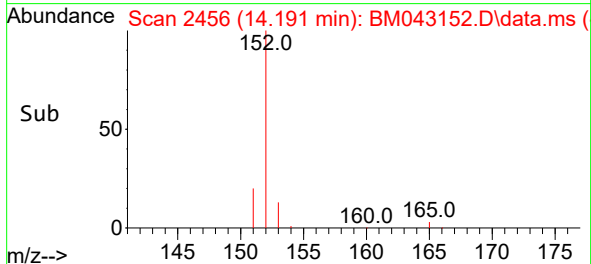
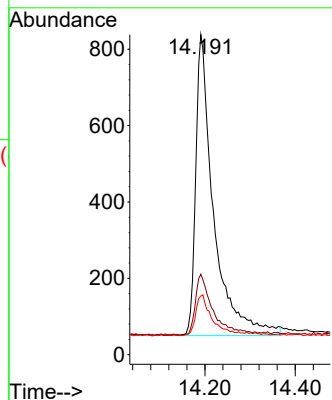
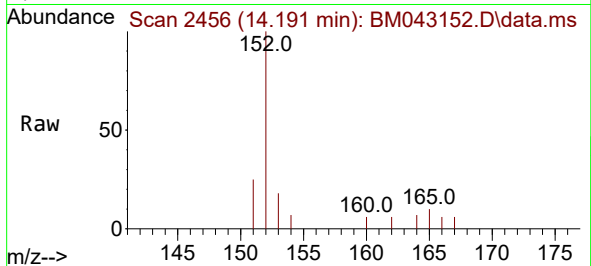




#10  
Acenaphthylene  
Concen: 0.383 ng/ul  
RT: 14.191 min Scan# 2456  
Delta R.T. 0.008 min  
Lab File: BM043152.D  
Acq: 02 Dec 2023 10:22

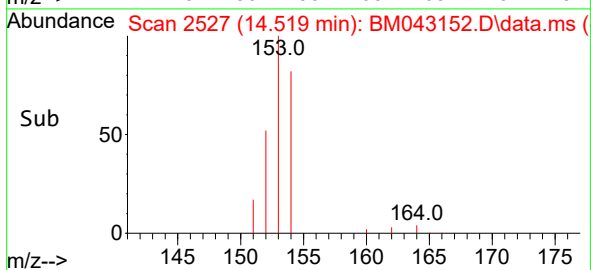
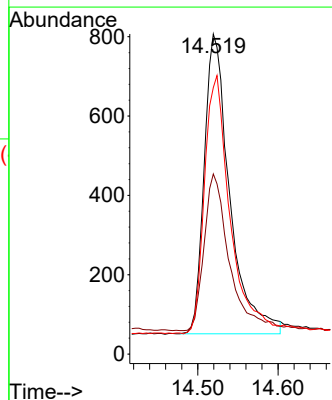
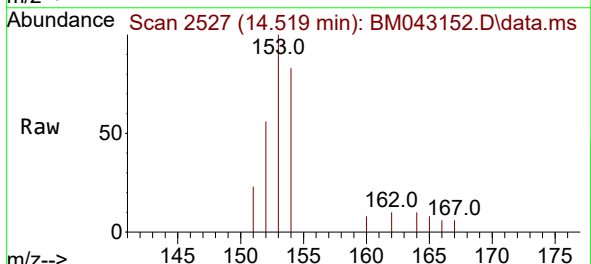
Instrument :  
BNA\_M  
ClientSampleId :  
SSTD0.4147

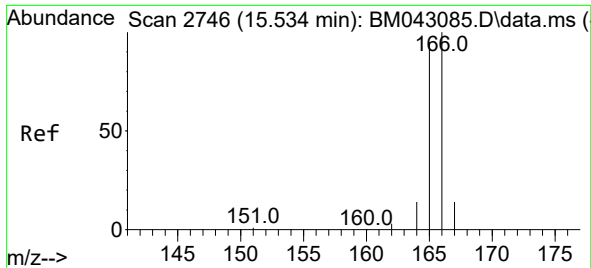
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:152 | Resp: | 2179      |
| Ion Ratio   | Lower | Upper     |
| 152         | 100   |           |
| 151         | 25.2  | 19.4 29.0 |
| 153         | 18.4  | 14.6 21.8 |



#11  
Acenaphthene  
Concen: 0.387 ng/ul  
RT: 14.519 min Scan# 2527  
Delta R.T. 0.003 min  
Lab File: BM043152.D  
Acq: 02 Dec 2023 10:22

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:153 | Resp: | 1671       |
| Ion Ratio   | Lower | Upper      |
| 153         | 100   |            |
| 152         | 56.3  | 43.9 65.9  |
| 154         | 83.3  | 70.6 105.8 |

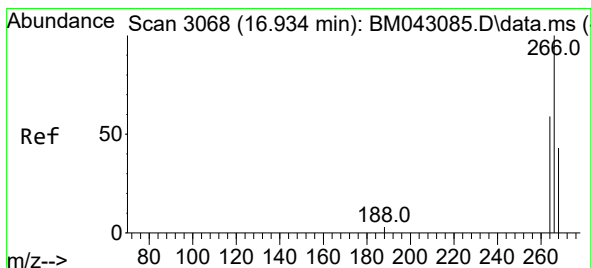
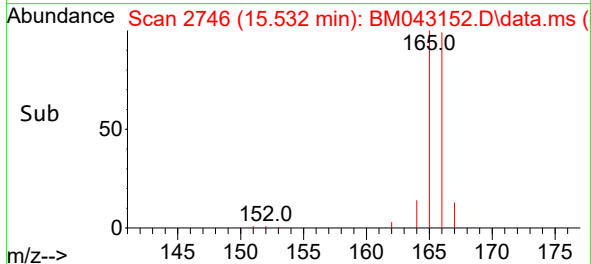
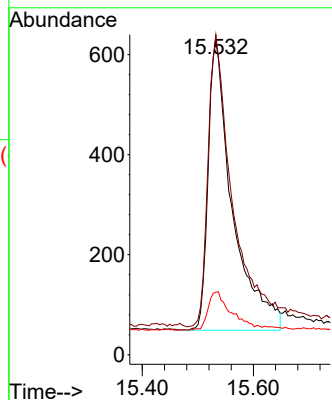
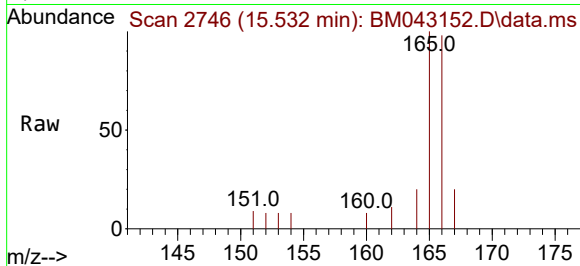




#12  
 Fluorene  
 Concen: 0.397 ng/ul  
 RT: 15.532 min Scan# 21  
 Delta R.T. 0.017 min  
 Lab File: BM043152.D  
 Acq: 02 Dec 2023 10:22

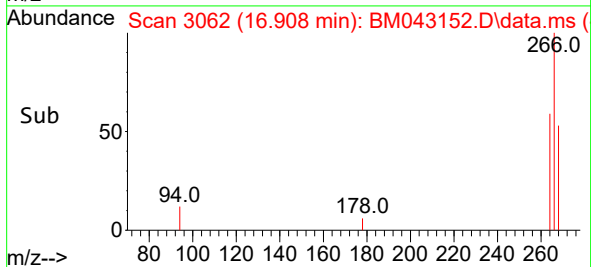
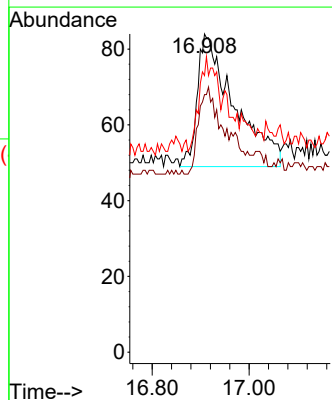
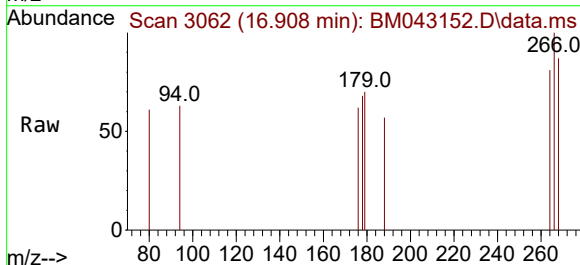
Instrument :  
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 ClientSampleId :  
 SSTD0.4147

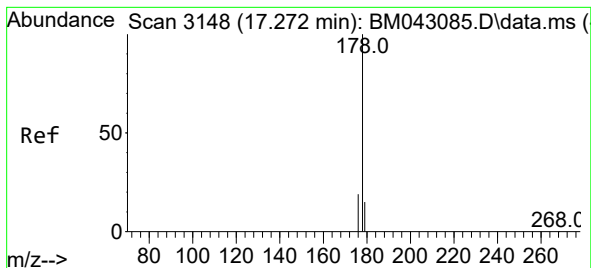
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 166   | Resp: | 1757  |
| Ion      | Ratio | Lower | Upper |
| 166      | 100   |       |       |
| 165      | 102.4 | 79.9  | 119.9 |
| 167      | 20.0  | 14.2  | 21.4  |



#14  
 Pentachlorophenol  
 Concen: 0.286 ng/ul  
 RT: 16.908 min Scan# 3062  
 Delta R.T. 0.028 min  
 Lab File: BM043152.D  
 Acq: 02 Dec 2023 10:22

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 266   | Resp: | 185   |
| Ion      | Ratio | Lower | Upper |
| 266      | 100   |       |       |
| 264      | 49.2  | 48.8  | 73.2  |
| 268      | 54.6  | 51.8  | 77.6  |





#15

Phenanthrene

Concen: 0.387 ng/ul

RT: 17.275 min Scan# 3148

Delta R.T. 0.016 min

Lab File: BM043152.D

Acq: 02 Dec 2023 10:22

Instrument :

BNA\_M

ClientSampleId :

SSTD0.4147

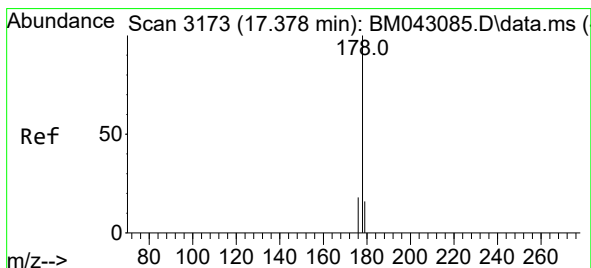
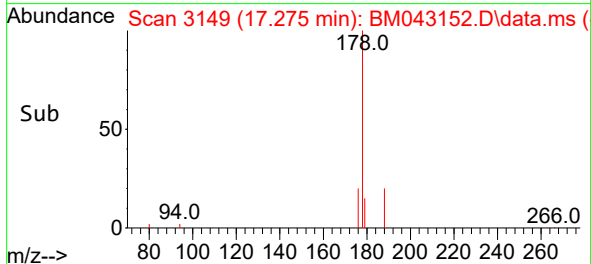
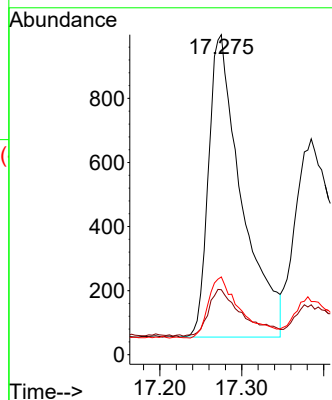
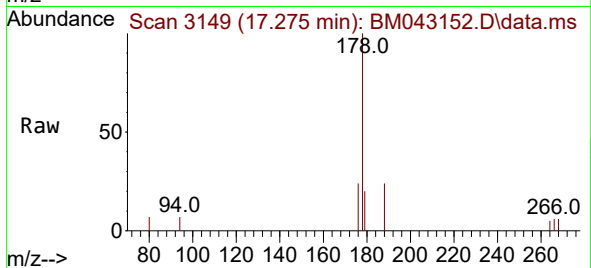
Tgt Ion:178 Resp: 2640

Ion Ratio Lower Upper

178 100

179 20.3 15.7 23.5

176 24.3 18.9 28.3



#16

Anthracene

Concen: 0.418 ng/ul

RT: 17.385 min Scan# 3175

Delta R.T. 0.024 min

Lab File: BM043152.D

Acq: 02 Dec 2023 10:22

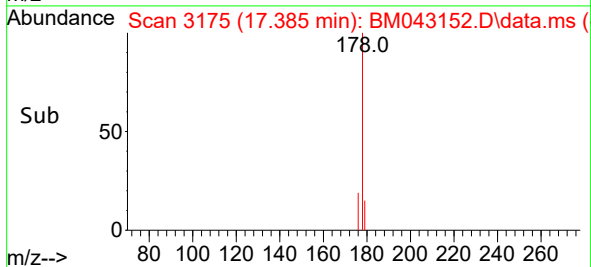
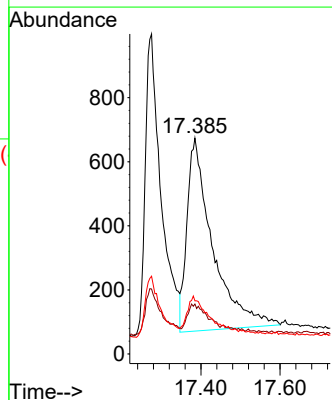
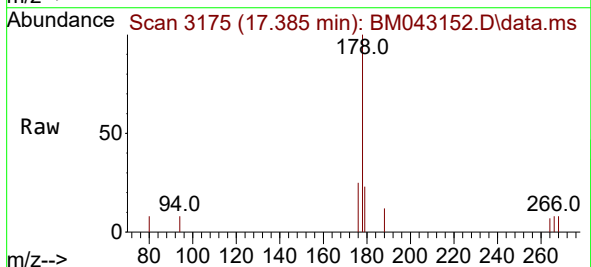
Tgt Ion:178 Resp: 2701

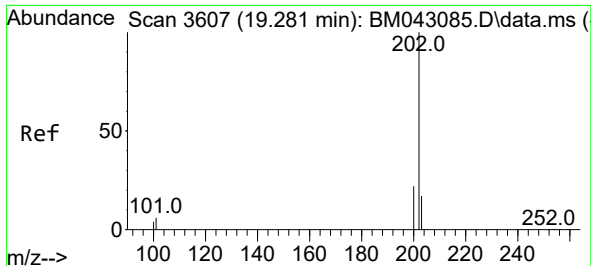
Ion Ratio Lower Upper

178 100

179 23.1 17.3 25.9

176 24.6 20.5 30.7

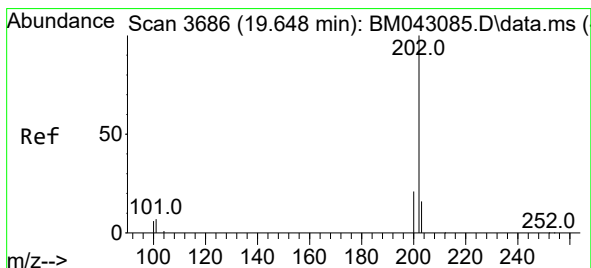
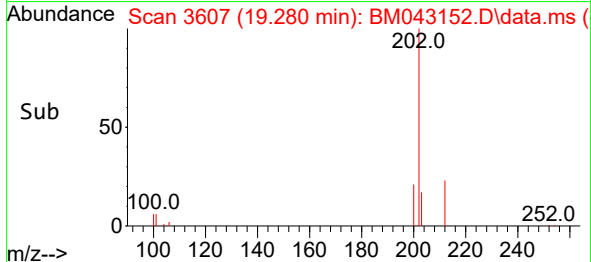
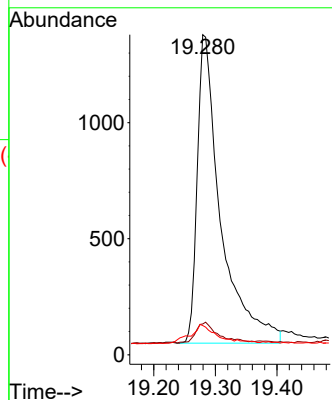
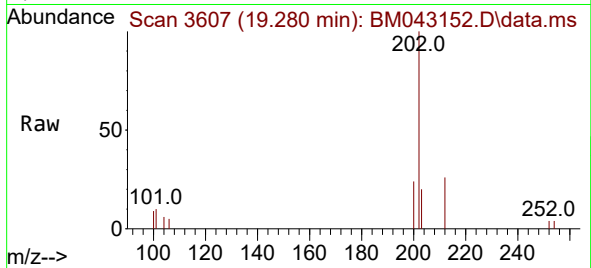




#19  
Fluoranthene  
Concen: 0.387 ng/ul  
RT: 19.280 min Scan# 3607  
Delta R.T. 0.008 min  
Lab File: BM043152.D  
Acq: 02 Dec 2023 10:22

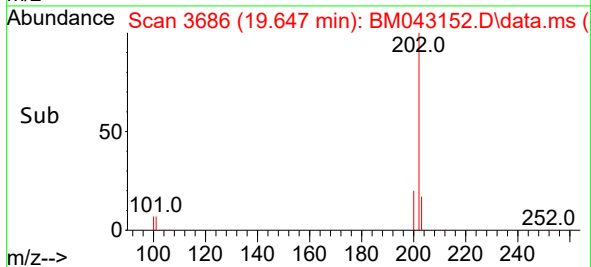
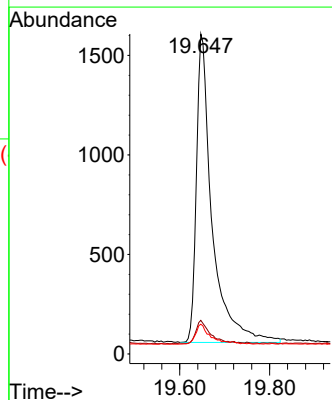
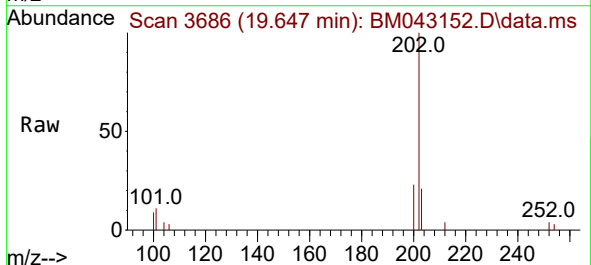
Instrument :  
BNA\_M  
ClientSampleId :  
SSTD0.4147

Tgt Ion:202 Resp: 3515  
Ion Ratio Lower Upper  
202 100  
101 9.6 7.8 11.8  
100 9.1 7.1 10.7

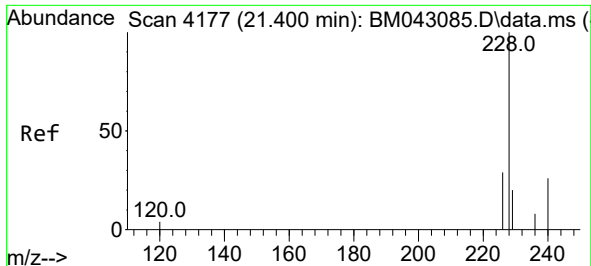


#20  
Pyrene  
Concen: 0.389 ng/ul  
RT: 19.647 min Scan# 3686  
Delta R.T. 0.008 min  
Lab File: BM043152.D  
Acq: 02 Dec 2023 10:22

Tgt Ion:202 Resp: 3760  
Ion Ratio Lower Upper  
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101 10.5 8.7 13.1  
100 9.3 7.8 11.8



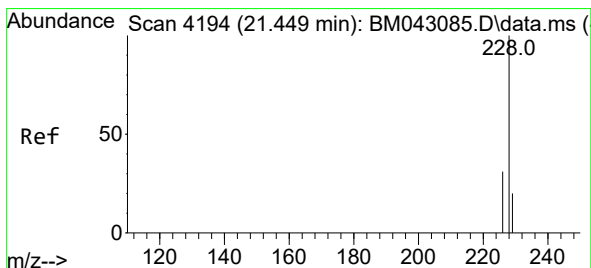
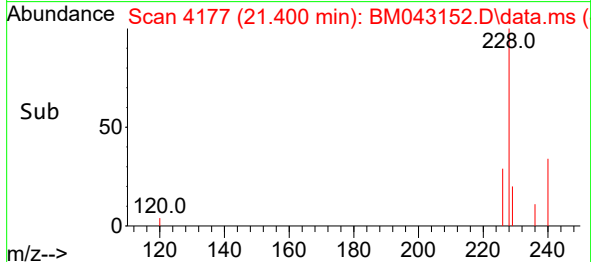
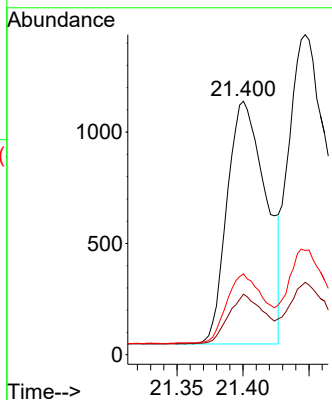
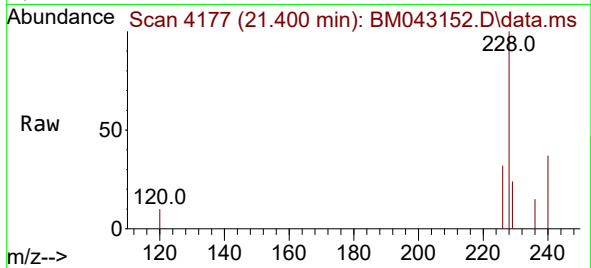




#21  
Benzo(a)anthracene  
Concen: 0.431 ng/ul  
RT: 21.400 min Scan# 4177  
Delta R.T. 0.012 min  
Lab File: BM043152.D  
Acq: 02 Dec 2023 10:22

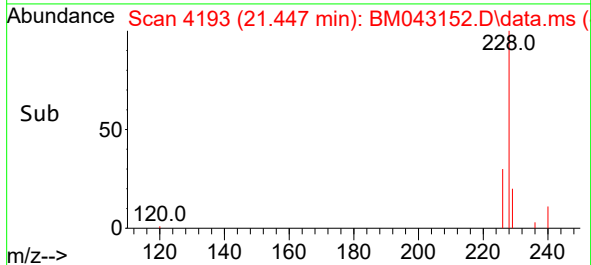
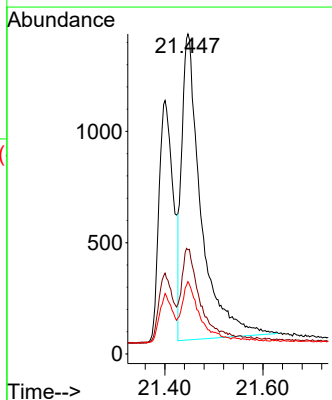
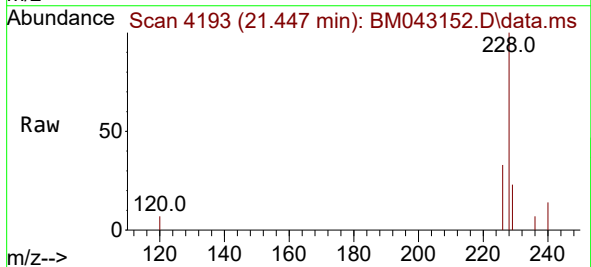
Instrument :  
BNA\_M  
ClientSampleId :  
SSTD0.4147

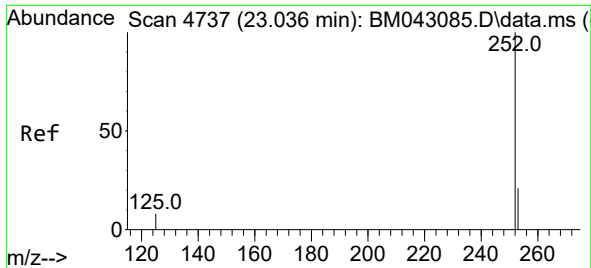
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 228   | Resp: | 2241  |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 229      | 23.9  | 19.4  | 29.0  |
| 226      | 31.9  | 24.9  | 37.3  |



#22  
Chrysene  
Concen: 0.388 ng/ul  
RT: 21.447 min Scan# 4193  
Delta R.T. 0.009 min  
Lab File: BM043152.D  
Acq: 02 Dec 2023 10:22

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 228   | Resp: | 3763  |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 32.5  | 27.2  | 40.8  |
| 229      | 22.6  | 18.0  | 27.0  |

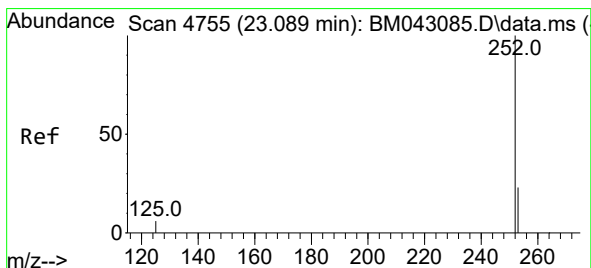
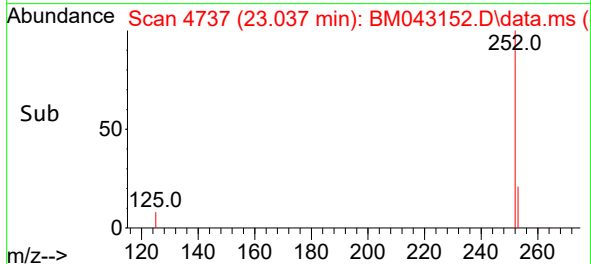
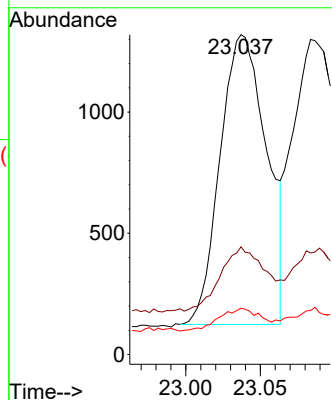
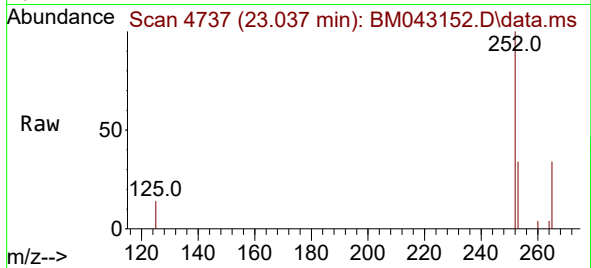




#24  
Benzo(b)fluoranthene  
Concen: 0.452 ng/ul  
RT: 23.037 min Scan# 4737  
Delta R.T. 0.009 min  
Lab File: BM043152.D  
Acq: 02 Dec 2023 10:22

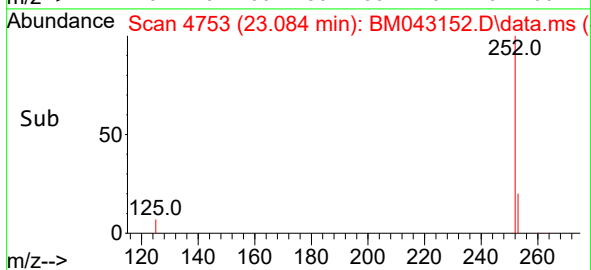
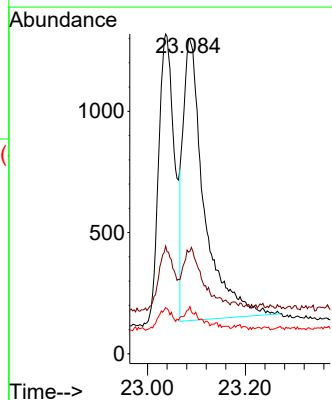
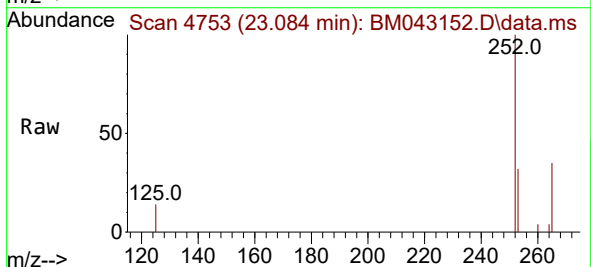
Instrument :  
BNA\_M  
ClientSampleId :  
SSTD0.4147

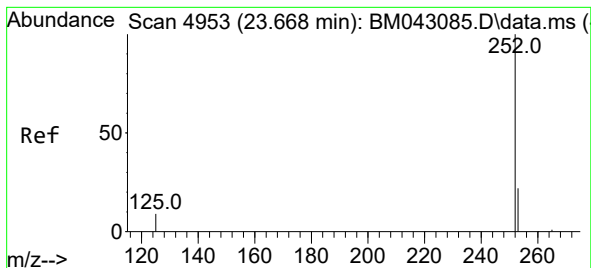
|             |       |          |
|-------------|-------|----------|
| Tgt Ion:252 | Resp: | 2593     |
| Ion Ratio   | Lower | Upper    |
| 252         | 100   |          |
| 253         | 33.7  | 0.0 71.8 |
| 125         | 14.5  | 0.0 29.0 |



#25  
Benzo(k)fluoranthene  
Concen: 0.441 ng/ul  
RT: 23.084 min Scan# 4753  
Delta R.T. 0.006 min  
Lab File: BM043152.D  
Acq: 02 Dec 2023 10:22

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 3490      |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 32.3  | 28.2 42.2 |
| 125         | 14.0  | 11.0 16.6 |





#26

Benzo(a)pyrene

Concen: 0.413 ng/ul

RT: 23.671 min Scan# 4954

Delta R.T. 0.021 min

Lab File: BM043152.D

Acq: 02 Dec 2023 10:22

Instrument :

BNA\_M

ClientSampleId :

SSTD0.4147

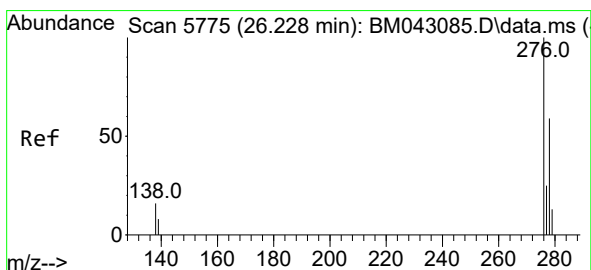
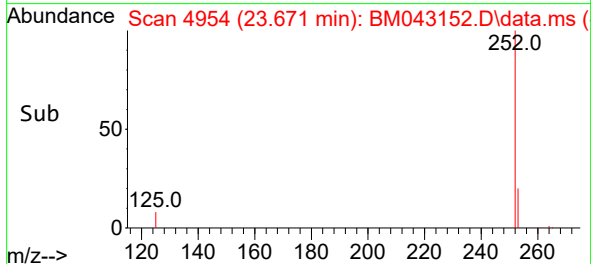
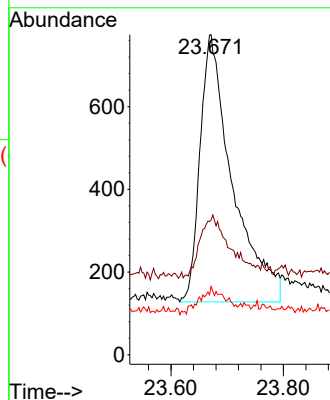
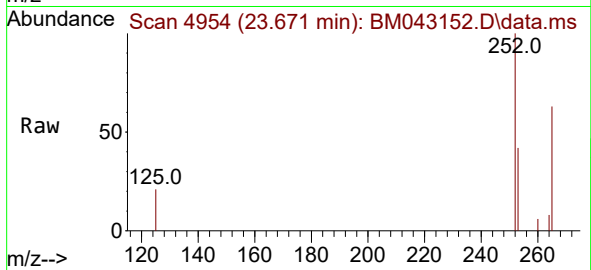
Tgt Ion:252 Resp: 2587

Ion Ratio Lower Upper

252 100

253 42.1 36.6 55.0

125 21.3 16.2 24.4



#27

Indeno(1,2,3-cd)pyrene

Concen: 0.386 ng/ul

RT: 26.239 min Scan# 5778

Delta R.T. 0.034 min

Lab File: BM043152.D

Acq: 02 Dec 2023 10:22

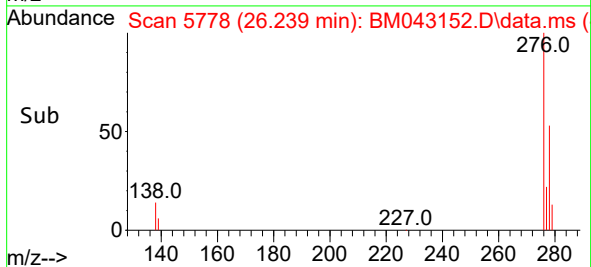
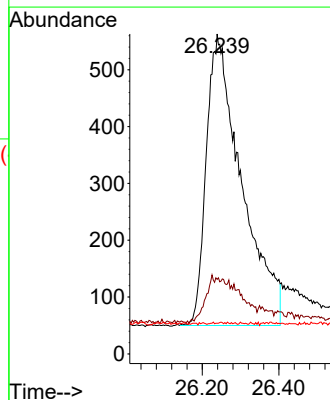
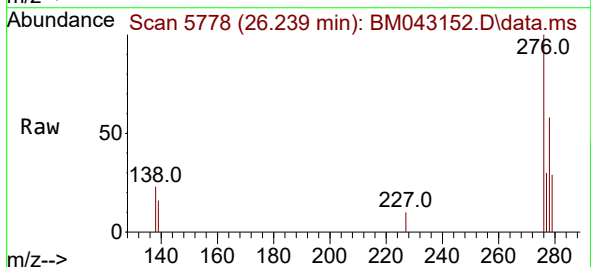
Tgt Ion:276 Resp: 3272

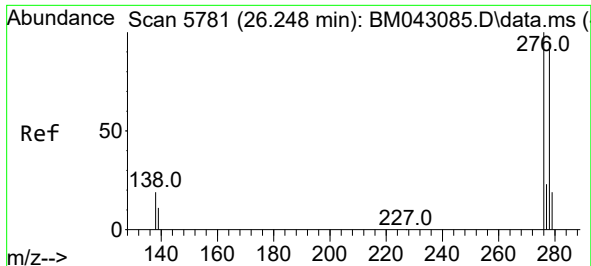
Ion Ratio Lower Upper

276 100

138 0.0 0.0 0.0

227 0.0 0.2 0.2#

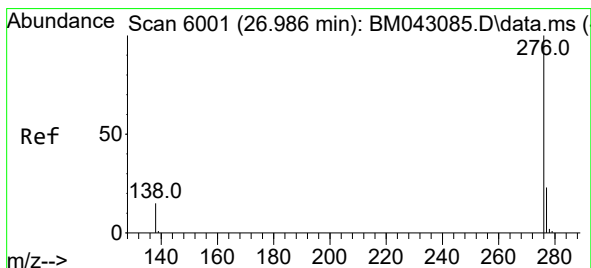
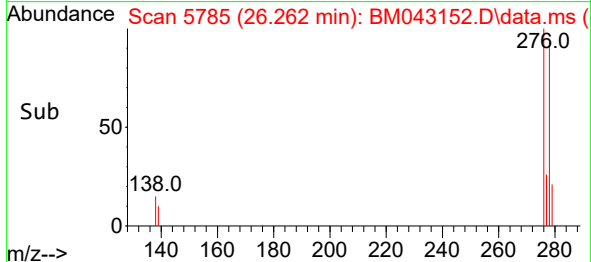
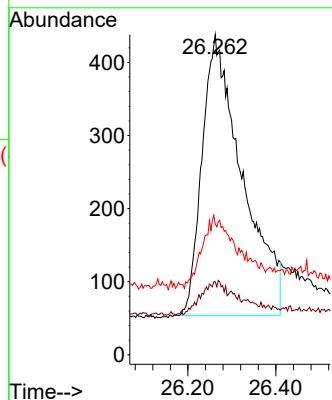
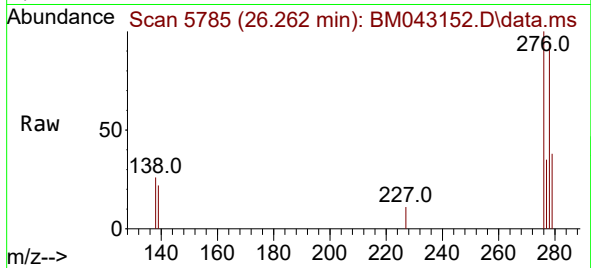




#28  
Dibenzo(a,h)anthracene  
Concen: 0.371 ng/ul  
RT: 26.262 min Scan# 51  
Delta R.T. 0.051 min  
Lab File: BM043152.D  
Acq: 02 Dec 2023 10:22

Instrument :  
BNA\_M  
ClientSampleId :  
SSTD0.4147

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 278   | Resp: | 2434  |
| Ion      | Ratio | Lower | Upper |
| 278      | 100   |       |       |
| 139      | 22.8  | 18.1  | 27.1  |
| 279      | 40.9  | 34.4  | 51.6  |



#29  
Benzo(g,h,i)perylene  
Concen: 0.399 ng/ul  
RT: 26.980 min Scan# 5999  
Delta R.T. 0.021 min  
Lab File: BM043152.D  
Acq: 02 Dec 2023 10:22

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 3291  |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 138      | 22.4  | 17.8  | 26.8  |
| 277      | 31.3  | 23.8  | 35.8  |

