

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM053123\  
 Data File : BM040095.D  
 Acq On : 01 Jun 2023 00:45  
 Operator : CG/JU  
 Sample : 02961-11MS  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 H0FQ2MS

Quant Time: Jun 01 01:23:45 2023  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SFAM-EPA-SIM-BM053123.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 31 18:20:24 2023  
 Response via : Initial Calibration

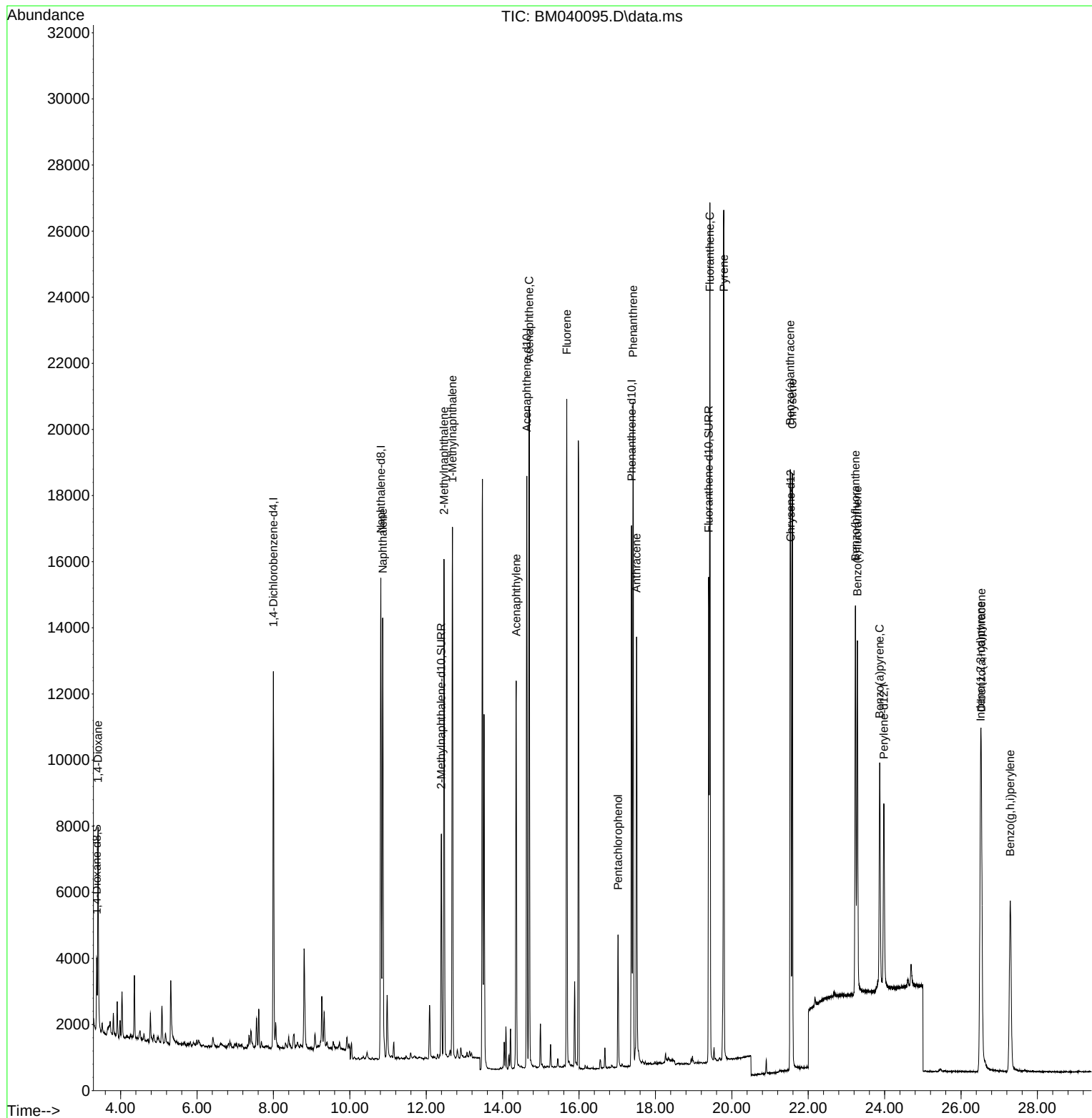
| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 8.000  | 152  | 5661     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.811 | 136  | 19599    | 0.400 | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.633 | 164  | 9175     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.375 | 188  | 17564    | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.544 | 240  | 9489     | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.979 | 264  | 8024     | 0.400 | ng/ul  | -0.01    |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.376  | 96   | 1525     | 0.219 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.395 | 152  | 8525     | 0.358 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.394 | 212  | 14114    | 0.509 | ng/ul  | 0.00     |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 2) 1,4-Dioxane              | 3.409  | 88   | 4314     | 0.590 | ng/ul# | 61       |
| 5) Naphthalene              | 10.861 | 128  | 17983    | 0.345 | ng/ul  | 99       |
| 7) 2-Methylnaphthalene      | 12.466 | 142  | 10418    | 0.359 | ng/ul  | 99       |
| 8) 1-Methylnaphthalene      | 12.686 | 142  | 10771    | 0.356 | ng/ul  | 100      |
| 10) Acenaphthylene          | 14.355 | 152  | 13189    | 0.368 | ng/ul  | 99       |
| 11) Acenaphthene            | 14.693 | 153  | 11340    | 0.368 | ng/ul  | 99       |
| 12) Fluorene                | 15.678 | 166  | 12179    | 0.382 | ng/ul  | 100      |
| 14) Pentachlorophenol       | 17.020 | 266  | 2678     | 0.682 | ng/ul  | 99       |
| 15) Phenanthrene            | 17.417 | 178  | 20233    | 0.401 | ng/ul  | 99       |
| 16) Anthracene              | 17.505 | 178  | 14527    | 0.353 | ng/ul  | 99       |
| 19) Fluoranthene            | 19.426 | 202  | 20575    | 0.502 | ng/ul  | 99       |
| 20) Pyrene                  | 19.789 | 202  | 20370    | 0.494 | ng/ul  | 95       |
| 21) Benzo(a)anthracene      | 21.530 | 228  | 14138    | 0.454 | ng/ul  | 100      |
| 22) Chrysene                | 21.582 | 228  | 15338    | 0.455 | ng/ul  | 100      |
| 24) Benzo(b)fluoranthene    | 23.236 | 252  | 14720    | 0.435 | ng/ul  | 97       |
| 25) Benzo(k)fluoranthene    | 23.286 | 252  | 13981    | 0.434 | ng/ul  | 97       |
| 26) Benzo(a)pyrene          | 23.871 | 252  | 10655    | 0.387 | ng/ul  | 95       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.511 | 276  | 14294    | 0.401 | ng/ul# | 100      |
| 28) Dibenzo(a,h)anthracene  | 26.531 | 278  | 11322    | 0.401 | ng/ul  | 99       |
| 29) Benzo(g,h,i)perylene    | 27.289 | 276  | 11656    | 0.403 | ng/ul  | 100      |

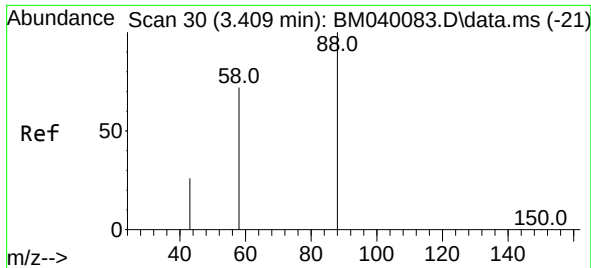
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM053123\  
Data File : BM040095.D  
Acq On : 01 Jun 2023 00:45  
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Sample : 02961-11MS  
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ALS Vial : 23 Sample Multiplier: 1

Instrument :  
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Quant Time: Jun 01 01:23:45 2023  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SFAM-EPA-SIM-BM053123.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 31 18:20:24 2023  
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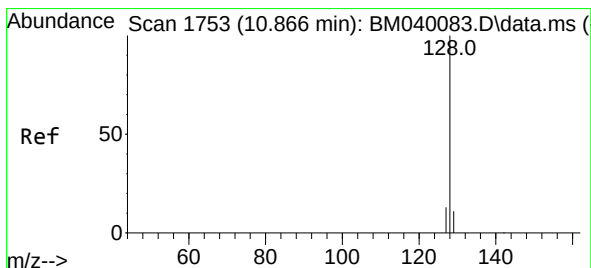
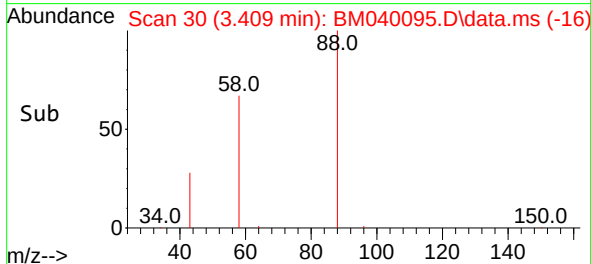
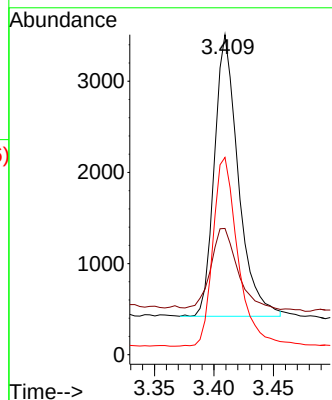
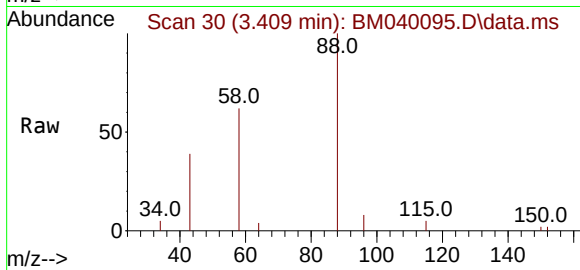




#2  
1,4-Dioxane  
Concen: 0.590 ng/ul  
RT: 3.409 min Scan# 30  
Delta R.T. 0.000 min  
Lab File: BM040095.D  
Acq: 01 Jun 2023 00:45

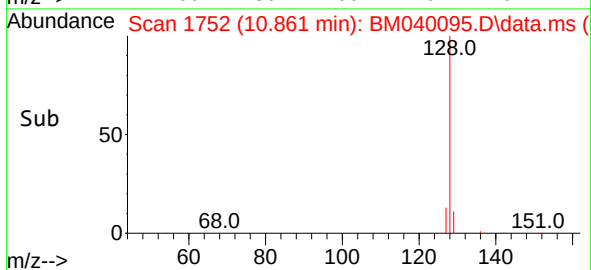
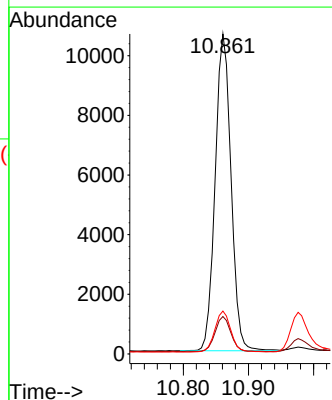
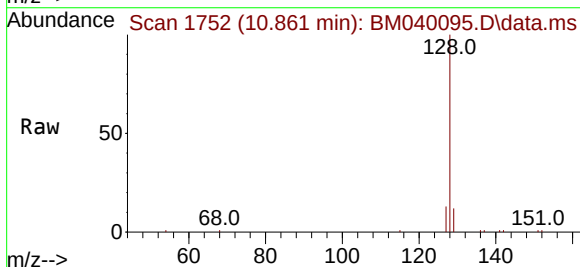
Instrument :  
BNA\_M  
ClientSampleId :  
H0FQ2MS

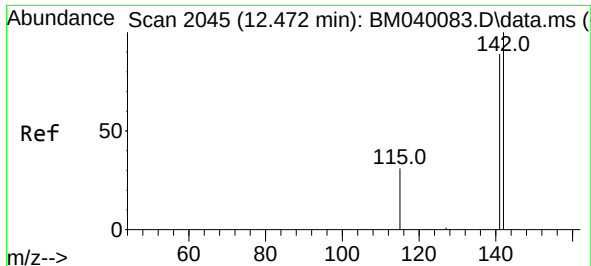
Tgt Ion: 88 Resp: 4314  
Ion Ratio Lower Upper  
88 100  
43 39.4 81.3 121.9#  
58 61.6 52.0 78.0



#5  
Naphthalene  
Concen: 0.345 ng/ul  
RT: 10.861 min Scan# 1752  
Delta R.T. 0.000 min  
Lab File: BM040095.D  
Acq: 01 Jun 2023 00:45

Tgt Ion: 128 Resp: 17983  
Ion Ratio Lower Upper  
128 100  
129 11.7 9.2 13.8  
127 13.4 10.5 15.7

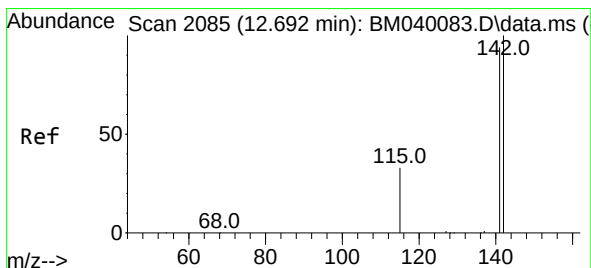
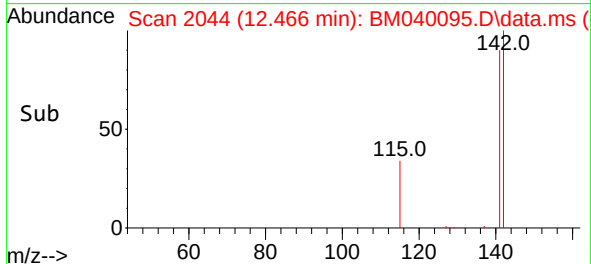
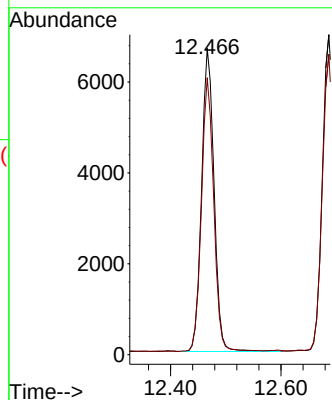
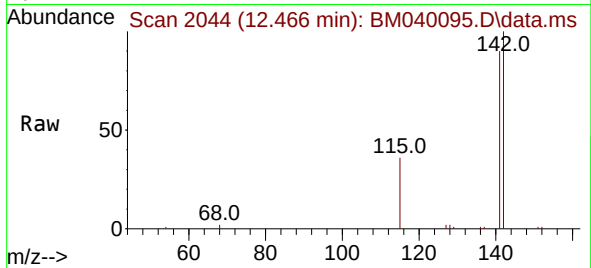




#7  
2-Methylnaphthalene  
Concen: 0.359 ng/ul  
RT: 12.466 min Scan# 2044  
Delta R.T. -0.005 min  
Lab File: BM040095.D  
Acq: 01 Jun 2023 00:45

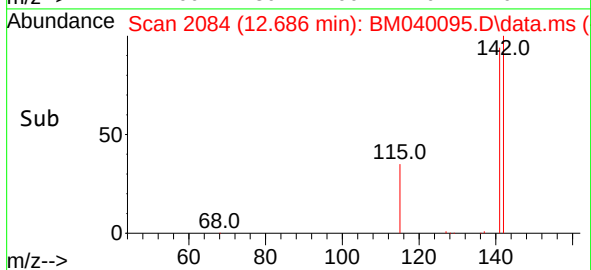
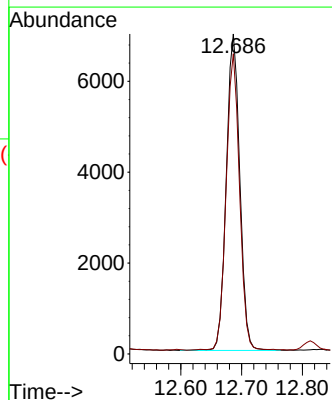
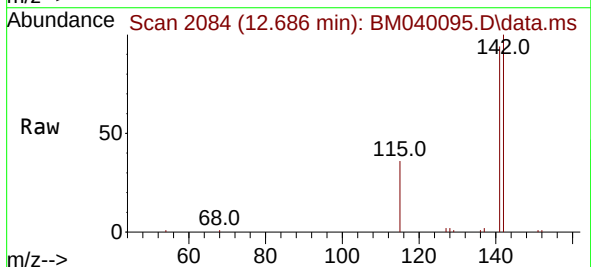
Instrument :  
BNA\_M  
ClientSampleId :  
H0FQ2MS

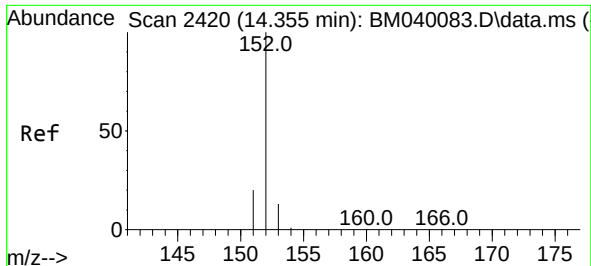
Tgt Ion:142 Resp: 10418  
Ion Ratio Lower Upper  
142 100  
141 89.1 71.8 107.8



#8  
1-Methylnaphthalene  
Concen: 0.356 ng/ul  
RT: 12.686 min Scan# 2084  
Delta R.T. 0.000 min  
Lab File: BM040095.D  
Acq: 01 Jun 2023 00:45

Tgt Ion:142 Resp: 10771  
Ion Ratio Lower Upper  
142 100  
141 92.9 74.7 112.1

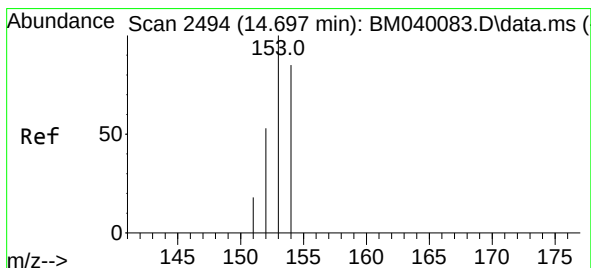
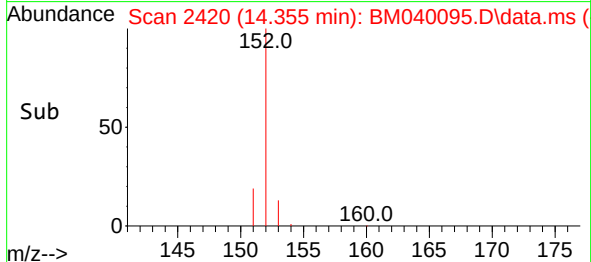
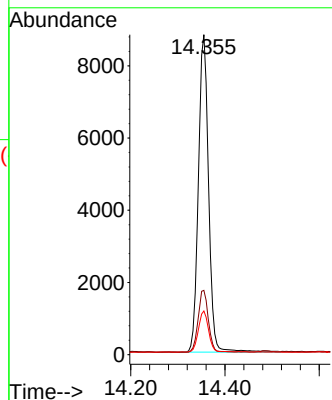
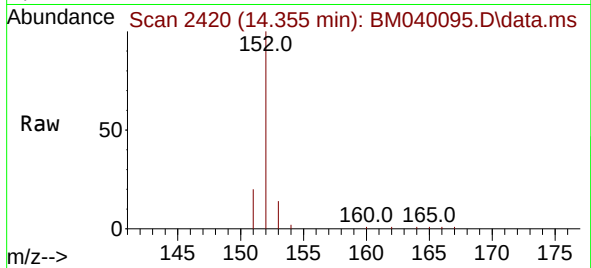




#10  
Acenaphthylene  
Concen: 0.368 ng/ul  
RT: 14.355 min Scan# 2420  
Delta R.T. 0.000 min  
Lab File: BM040095.D  
Acq: 01 Jun 2023 00:45

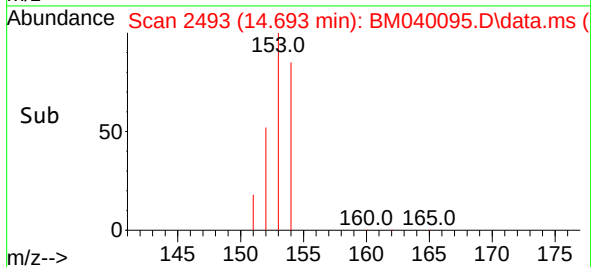
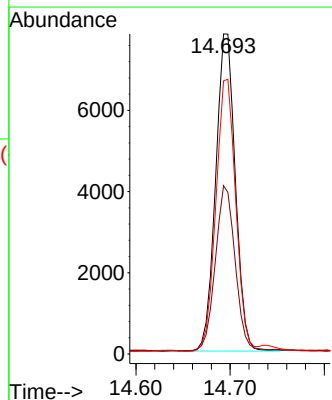
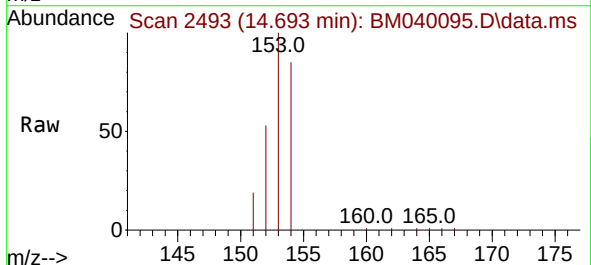
Instrument :  
BNA\_M  
ClientSampleId :  
H0FQ2MS

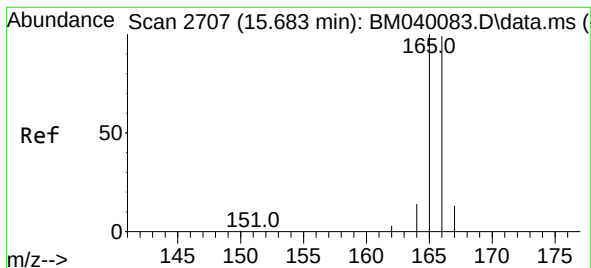
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 13189 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 20.1  | 16.4  | 24.6  |
| 153       | 13.7  | 10.8  | 16.2  |



#11  
Acenaphthene  
Concen: 0.368 ng/ul  
RT: 14.693 min Scan# 2493  
Delta R.T. -0.004 min  
Lab File: BM040095.D  
Acq: 01 Jun 2023 00:45

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 11340 |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 52.6  | 41.2  | 61.8  |
| 154       | 85.3  | 68.8  | 103.2 |





#12

Fluorene

Concen: 0.382 ng/ul

RT: 15.678 min Scan# 21

Delta R.T. -0.004 min

Lab File: BM040095.D

Acq: 01 Jun 2023 00:45

Instrument :

BNA\_M

ClientSampleId :

H0FQ2MS

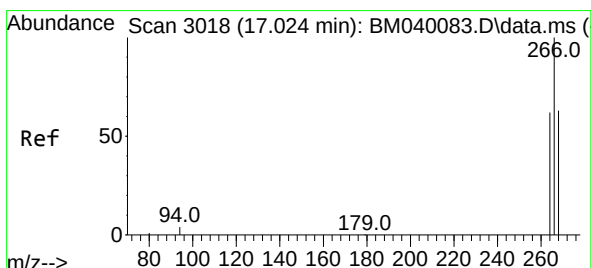
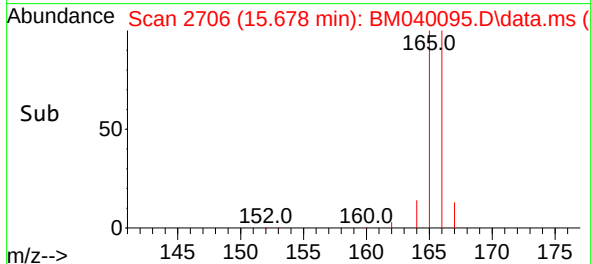
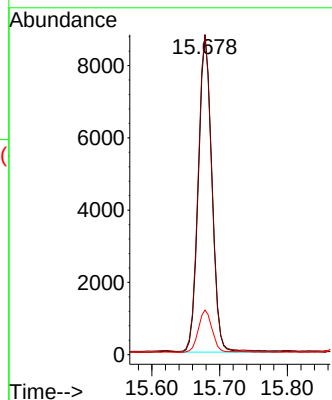
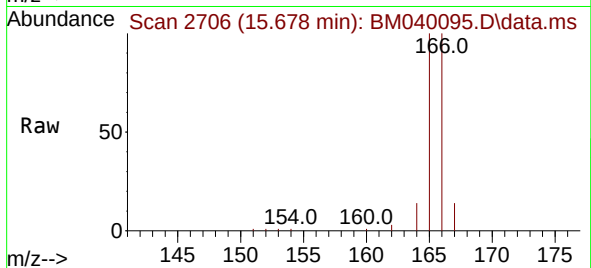
Tgt Ion:166 Resp: 12179

Ion Ratio Lower Upper

166 100

165 100.0 79.8 119.8

167 13.9 11.2 16.8



#14

Pentachlorophenol

Concen: 0.682 ng/ul

RT: 17.020 min Scan# 3017

Delta R.T. -0.004 min

Lab File: BM040095.D

Acq: 01 Jun 2023 00:45

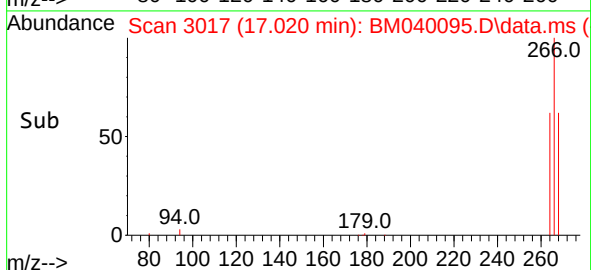
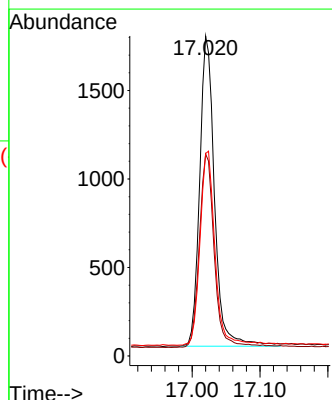
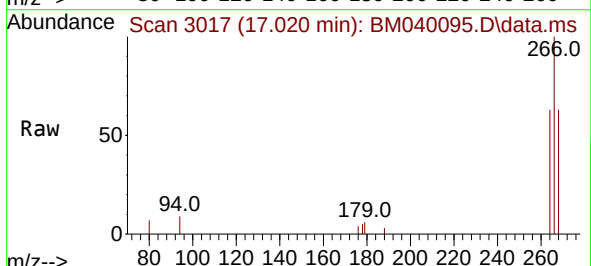
Tgt Ion:266 Resp: 2678

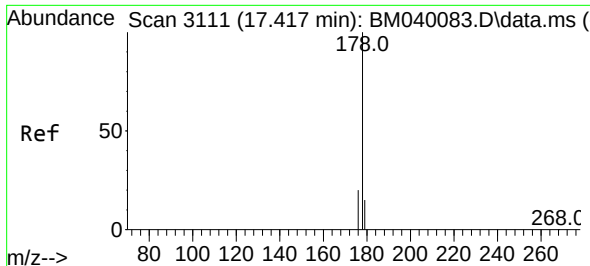
Ion Ratio Lower Upper

266 100

264 63.1 49.9 74.9

268 63.1 51.5 77.3

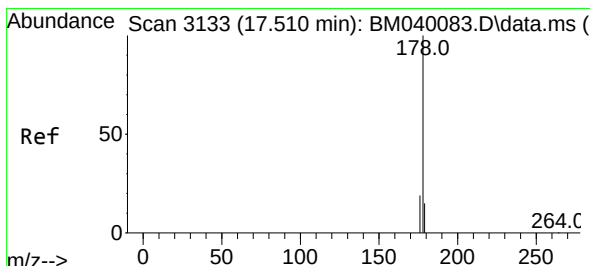
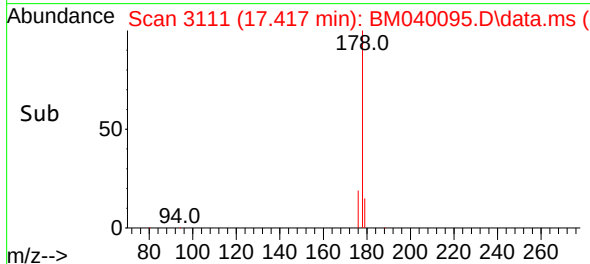
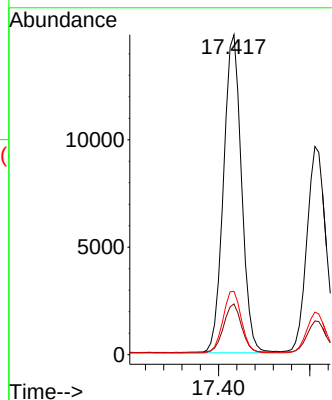
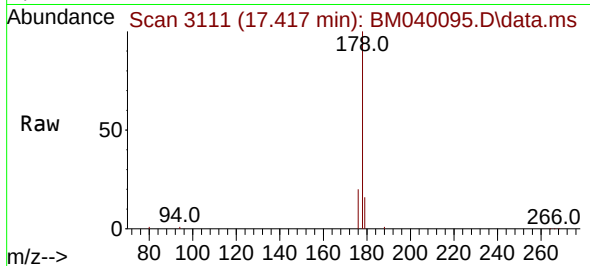




#15  
Phenanthrene  
Concen: 0.401 ng/ul  
RT: 17.417 min Scan# 3111  
Delta R.T. 0.000 min  
Lab File: BM040095.D  
Acq: 01 Jun 2023 00:45

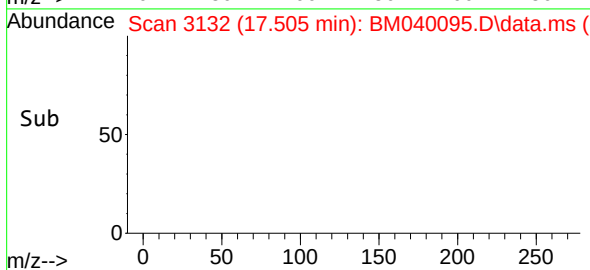
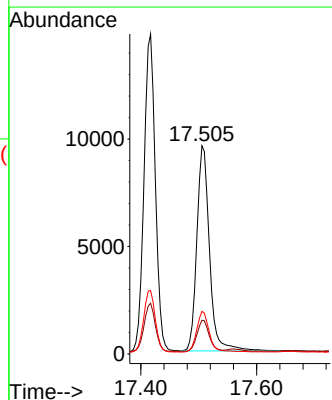
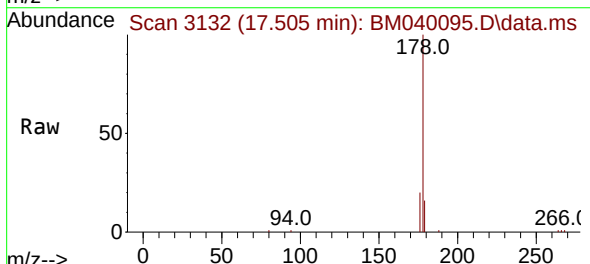
Instrument :  
BNA\_M  
ClientSampleId :  
H0FQ2MS

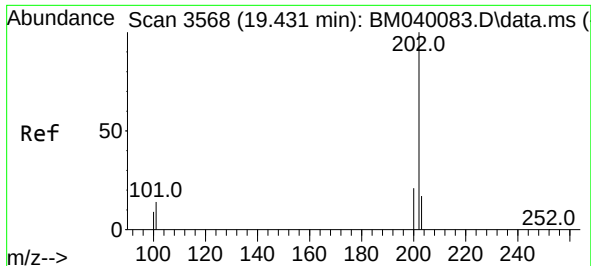
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|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 20233     |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 179         | 15.8  | 12.4 18.6 |
| 176         | 19.8  | 16.4 24.6 |



#16  
Anthracene  
Concen: 0.353 ng/ul  
RT: 17.505 min Scan# 3132  
Delta R.T. -0.004 min  
Lab File: BM040095.D  
Acq: 01 Jun 2023 00:45

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 14527     |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 179         | 16.2  | 12.6 19.0 |
| 176         | 20.4  | 15.8 23.6 |

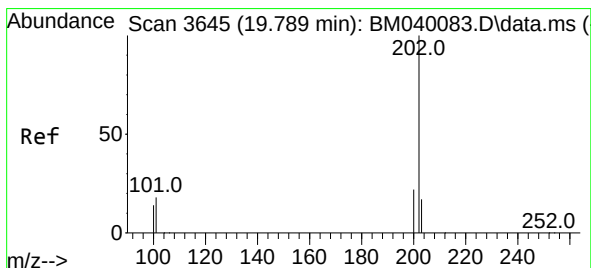
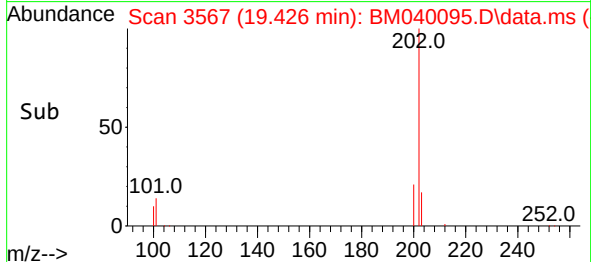
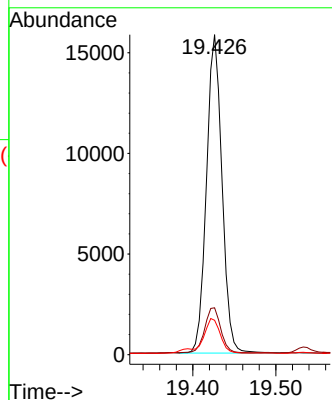
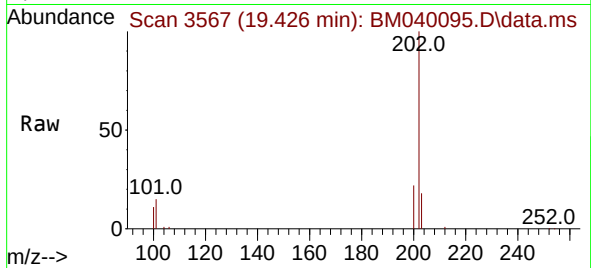




#19  
Fluoranthene  
Concen: 0.502 ng/ul  
RT: 19.426 min Scan# 3567  
Delta R.T. -0.005 min  
Lab File: BM040095.D  
Acq: 01 Jun 2023 00:45

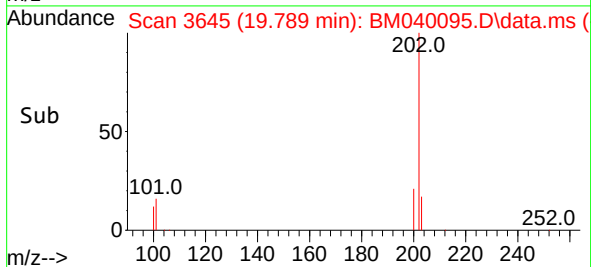
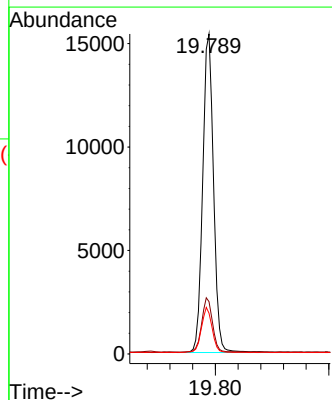
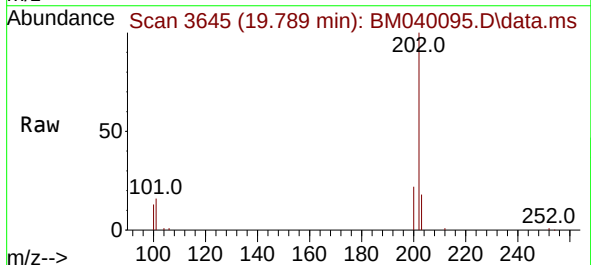
Instrument :  
BNA\_M  
ClientSampleId :  
H0FQ2MS

Tgt Ion:202 Resp: 20575  
Ion Ratio Lower Upper  
202 100  
101 14.7 11.2 16.8  
100 10.7 8.6 12.8

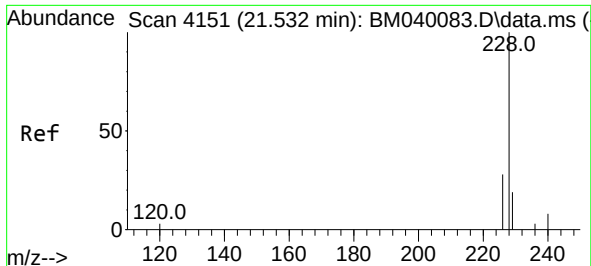


#20  
Pyrene  
Concen: 0.494 ng/ul  
RT: 19.789 min Scan# 3645  
Delta R.T. 0.000 min  
Lab File: BM040095.D  
Acq: 01 Jun 2023 00:45

Tgt Ion:202 Resp: 20370  
Ion Ratio Lower Upper  
202 100  
101 16.3 14.7 22.1  
100 12.7 12.2 18.2



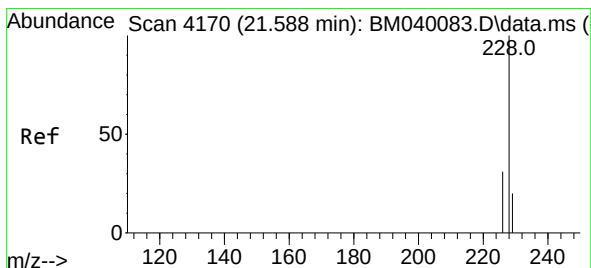
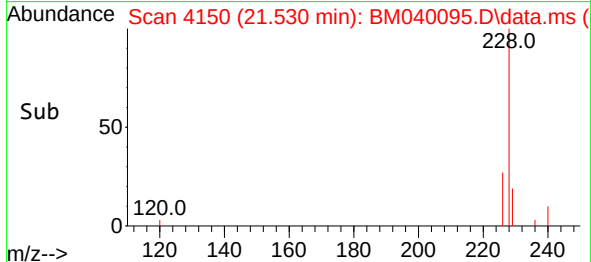
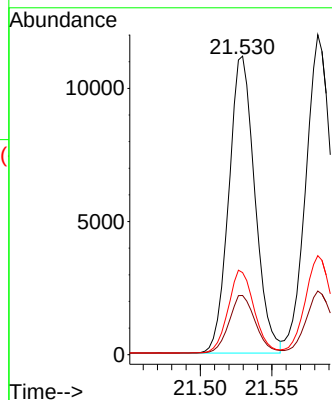
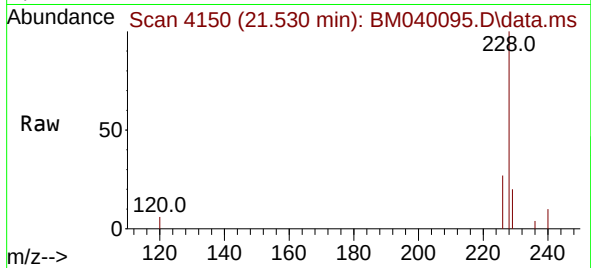




#21  
Benzo(a)anthracene  
Concen: 0.454 ng/ul  
RT: 21.530 min Scan# 4150  
Delta R.T. -0.006 min  
Lab File: BM040095.D  
Acq: 01 Jun 2023 00:45

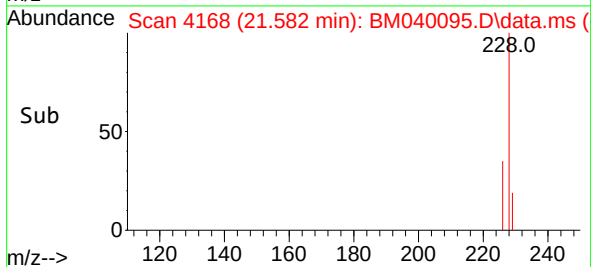
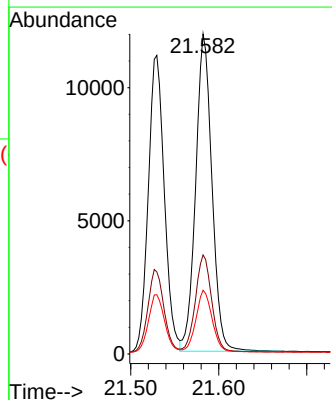
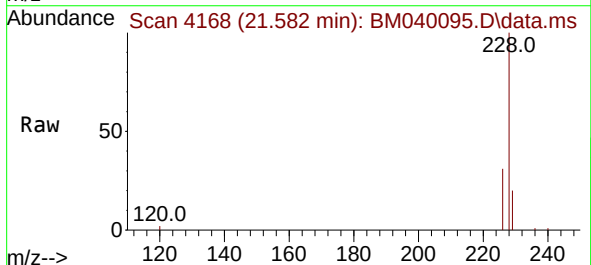
Instrument :  
BNA\_M  
ClientSampleId :  
H0FQ2MS

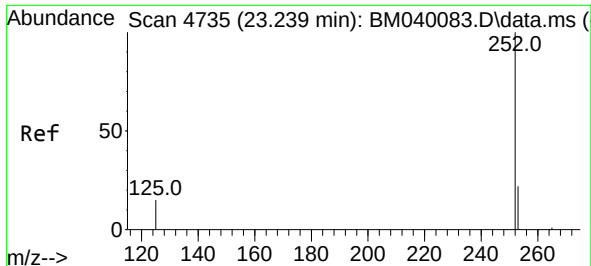
Tgt Ion:228 Resp: 14138  
Ion Ratio Lower Upper  
228 100  
229 19.8 16.1 24.1  
226 27.5 22.1 33.1



#22  
Chrysene  
Concen: 0.455 ng/ul  
RT: 21.582 min Scan# 4168  
Delta R.T. -0.006 min  
Lab File: BM040095.D  
Acq: 01 Jun 2023 00:45

Tgt Ion:228 Resp: 15338  
Ion Ratio Lower Upper  
228 100  
226 31.0 24.8 37.2  
229 19.9 15.9 23.9

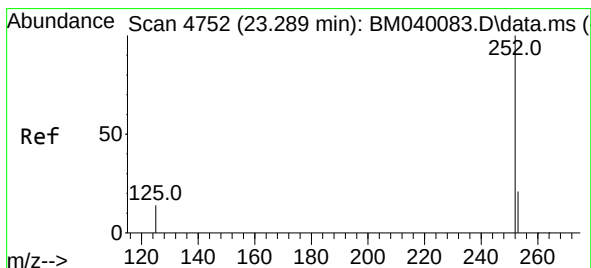
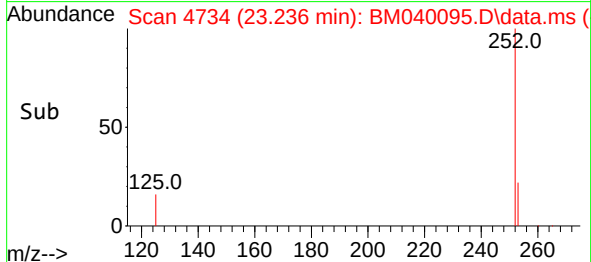
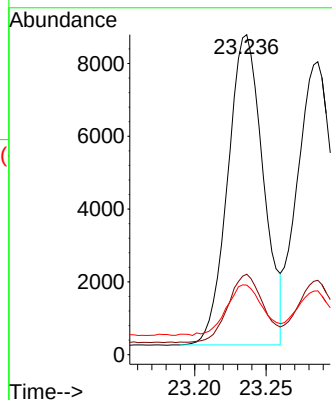
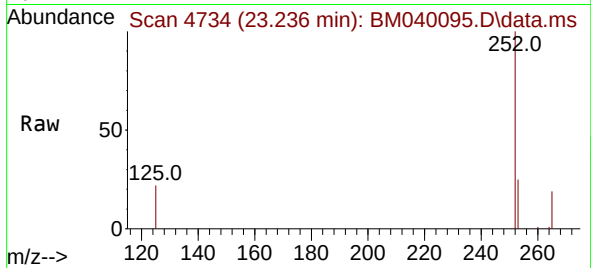




#24  
Benzo(b)fluoranthene  
Concen: 0.435 ng/ul  
RT: 23.236 min Scan# 4734  
Delta R.T. -0.006 min  
Lab File: BM040095.D  
Acq: 01 Jun 2023 00:45

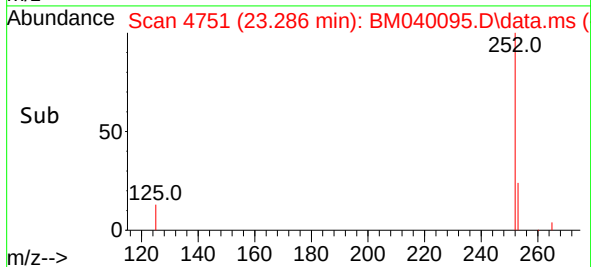
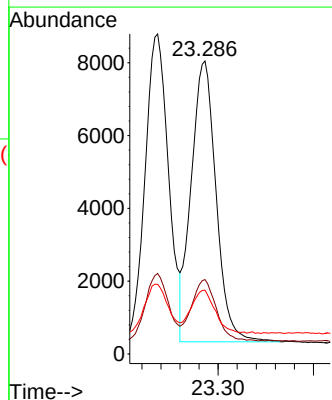
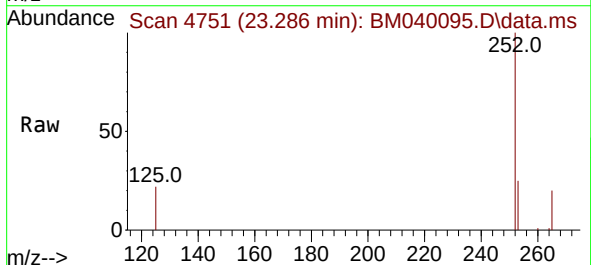
Instrument :  
BNA\_M  
ClientSampleId :  
H0FQ2MS

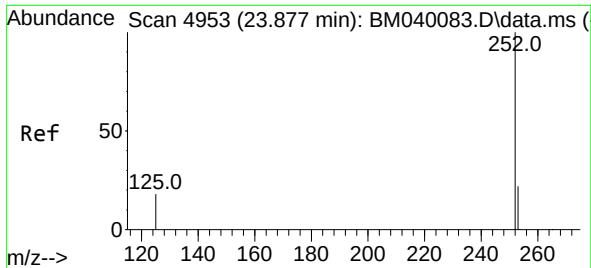
|             |       |          |
|-------------|-------|----------|
| Tgt Ion:252 | Resp: | 14720    |
| Ion Ratio   | Lower | Upper    |
| 252         | 100   |          |
| 253         | 25.1  | 0.0 48.6 |
| 125         | 21.7  | 0.0 38.8 |



#25  
Benzo(k)fluoranthene  
Concen: 0.434 ng/ul  
RT: 23.286 min Scan# 4751  
Delta R.T. -0.006 min  
Lab File: BM040095.D  
Acq: 01 Jun 2023 00:45

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 13981     |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 25.4  | 19.5 29.3 |
| 125         | 21.8  | 15.9 23.9 |

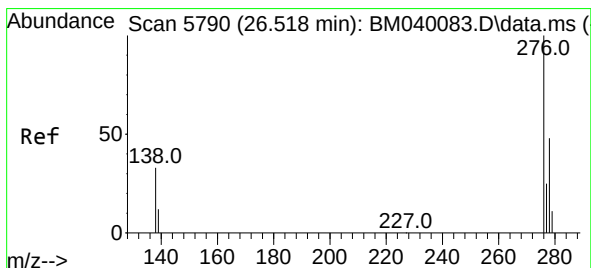
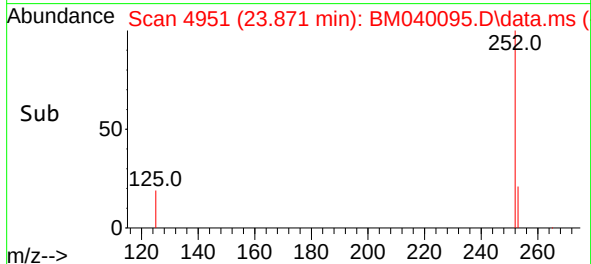
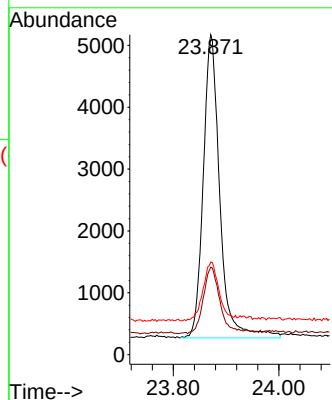
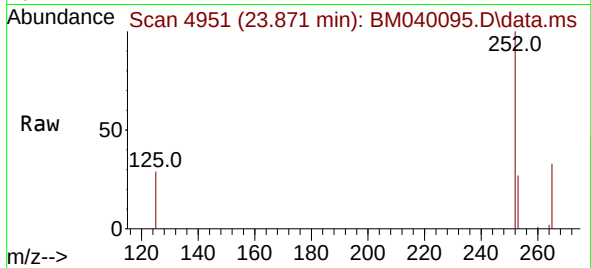




#26  
Benzo(a)pyrene  
Concen: 0.387 ng/ul  
RT: 23.871 min Scan# 4951  
Delta R.T. -0.006 min  
Lab File: BM040095.D  
Acq: 01 Jun 2023 00:45

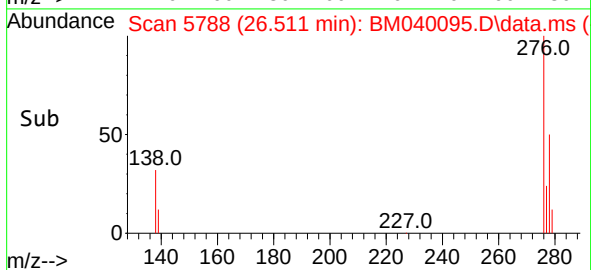
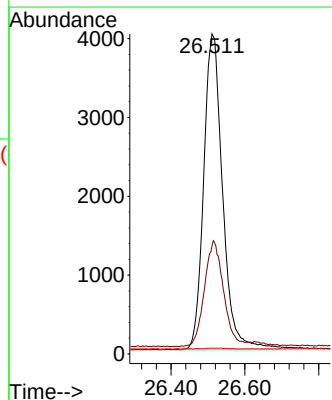
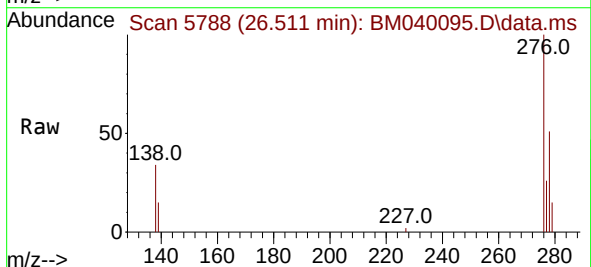
Instrument :  
BNA\_M  
ClientSampleId :  
H0FQ2MS

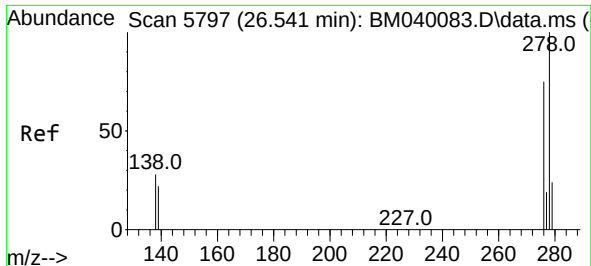
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 10655 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 27.3  | 21.0  | 31.4  |
| 125       | 29.0  | 19.8  | 29.8  |



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.401 ng/ul  
RT: 26.511 min Scan# 5788  
Delta R.T. -0.010 min  
Lab File: BM040095.D  
Acq: 01 Jun 2023 00:45

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 14294 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 34.9  | 28.0  | 42.0  |
| 227       | 0.0   | 0.1   | 0.1   |

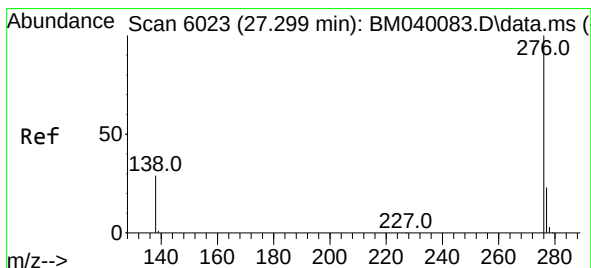
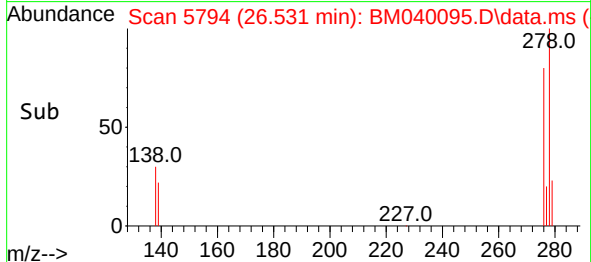
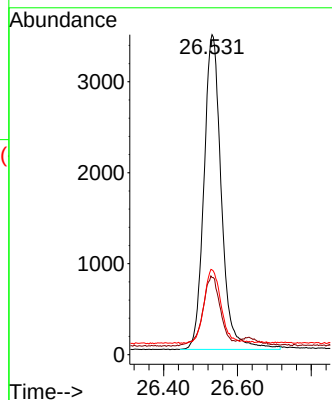
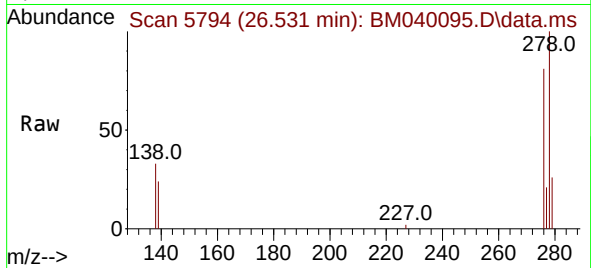




#28  
Dibenzo(a,h)anthracene  
Concen: 0.401 ng/ul  
RT: 26.531 min Scan# 51  
Delta R.T. -0.010 min  
Lab File: BM040095.D  
Acq: 01 Jun 2023 00:45

Instrument :  
BNA\_M  
ClientSampleId :  
H0FQ2MS

Tgt Ion:278 Resp: 11322  
Ion Ratio Lower Upper  
278 100  
139 24.1 19.6 29.4  
279 26.5 21.0 31.6



#29  
Benzo(g,h,i)perylene  
Concen: 0.403 ng/ul  
RT: 27.289 min Scan# 6020  
Delta R.T. -0.013 min  
Lab File: BM040095.D  
Acq: 01 Jun 2023 00:45

Tgt Ion:276 Resp: 11656  
Ion Ratio Lower Upper  
276 100  
138 31.4 25.2 37.8  
277 25.2 19.8 29.8

