

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM061824\  
 Data File : BM046081.D  
 Acq On : 19 Jun 2024 12:07  
 Operator : MA/JU  
 Sample : P2696-22DL 5X  
 Misc :  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4B91DL

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 06/19/2024  
 Supervised By :mohammad ahmed 06/21/2024

Quant Time: Jun 19 13:03:24 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM061824.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 18 13:58:29 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.442  | 152  | 2024     | 0.400 | ng/ul  | -0.02    |
| 4) Naphthalene-d8           | 10.249 | 136  | 5477     | 0.400 | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.100 | 164  | 3038     | 0.400 | ng/ul  | -0.01    |
| 13) Phenanthrene-d10        | 16.833 | 188  | 6053     | 0.400 | ng/ul  | -0.03    |
| 17) Chrysene-d12            | 21.029 | 240  | 5060     | 0.400 | ng/ul  | -0.02    |
| 23) Perylene-d12            | 23.127 | 264  | 5888m    | 0.400 | ng/ul  | -0.02    |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.042  | 96   | 2172     | 0.782 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.893 | 152  | 343      | 0.047 | ng/ul  | 0.03     |
| 18) Fluoranthene-d10        | 18.863 | 212  | 837      | 0.055 | ng/ul  | -0.02    |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.299 | 128  | 523      | 0.034 | ng/ul# | 38       |
| 10) Acenaphthylene          | 13.817 | 152  | 870      | 0.060 | ng/ul# | 72       |
| 11) Acenaphthene            | 14.160 | 153  | 765      | 0.074 | ng/ul  | 91       |
| 12) Fluorene                | 15.154 | 166  | 898      | 0.080 | ng/ul# | 97       |
| 15) Phenanthrene            | 16.875 | 178  | 16030    | 0.943 | ng/ul  | 97       |
| 16) Anthracene              | 16.968 | 178  | 3151     | 0.249 | ng/ul# | 94       |
| 19) Fluoranthene            | 18.895 | 202  | 27437    | 1.252 | ng/ul  | 97       |
| 20) Pyrene                  | 19.258 | 202  | 20783    | 0.877 | ng/ul  | 97       |
| 21) Benzo(a)anthracene      | 21.014 | 228  | 11892    | 0.608 | ng/ul  | 98       |
| 22) Chrysene                | 21.064 | 228  | 12050    | 0.483 | ng/ul  | 99       |
| 24) Benzo(b)fluoranthene    | 22.507 | 252  | 16409m   | 0.774 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.539 | 252  | 6863m    | 0.272 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.034 | 252  | 5661     | 0.288 | ng/ul  | 92       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.182 | 276  | 5721     | 0.178 | ng/ul# | 92       |
| 28) Dibenzo(a,h)anthracene  | 25.185 | 278  | 1933     | 0.081 | ng/ul# | 58       |
| 29) Benzo(g,h,i)perylene    | 25.806 | 276  | 942      | 0.034 | ng/ul# | 41       |
| -----                       |        |      |          |       |        |          |

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

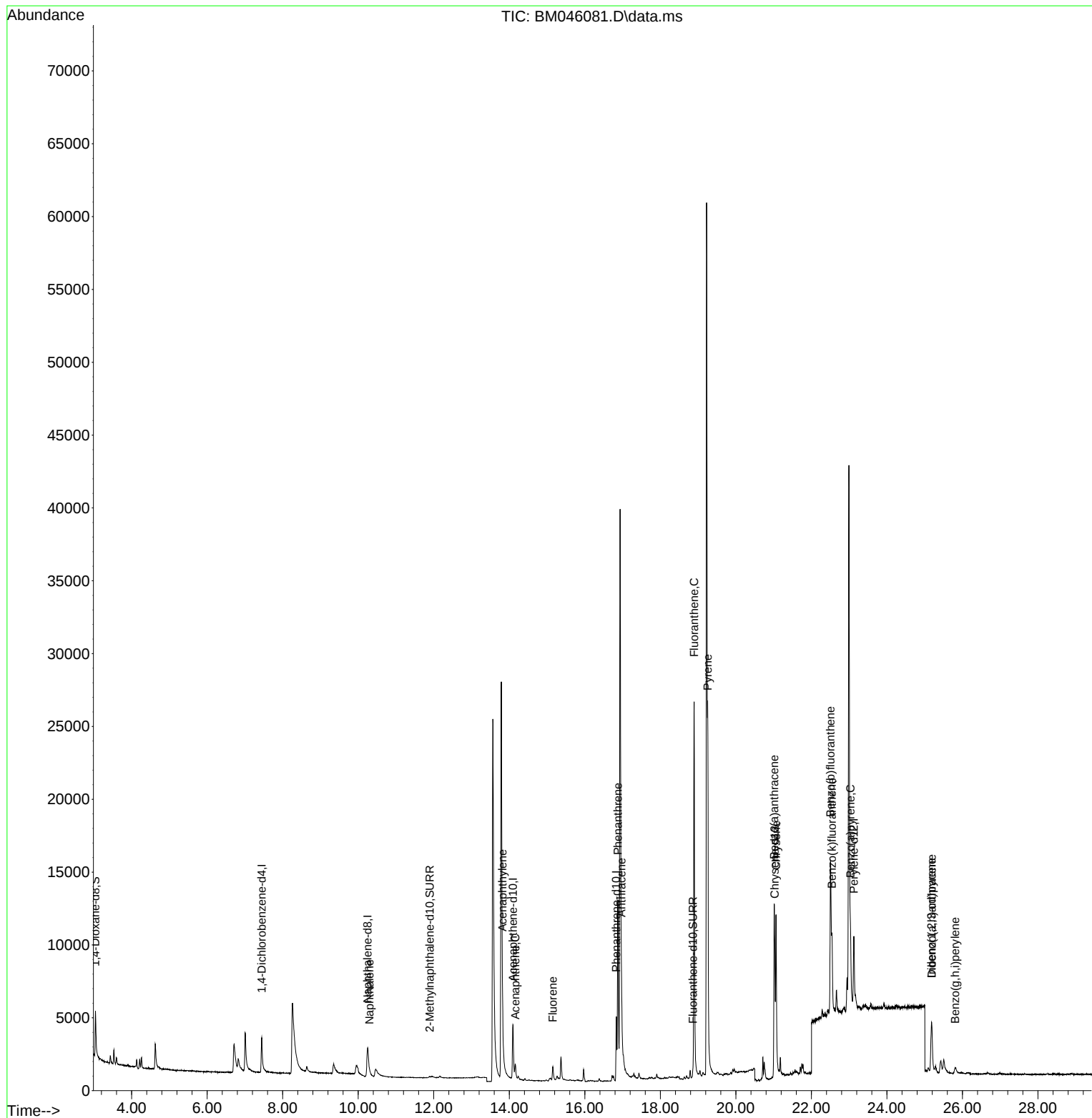
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM061824\  
Data File : BM046081.D  
Acq On : 19 Jun 2024 12:07  
Operator : MA/JU  
Sample : P2696-22DL 5X  
Misc :  
ALS Vial : 36 Sample Multiplier: 1

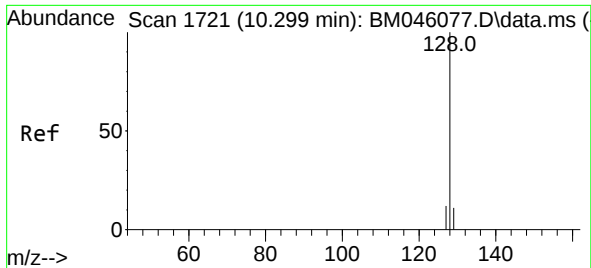
Instrument :  
BNA\_M  
ClientSampleId :  
A4B91DL

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 06/19/2024  
Supervised By :mohammad ahmed 06/21/2024

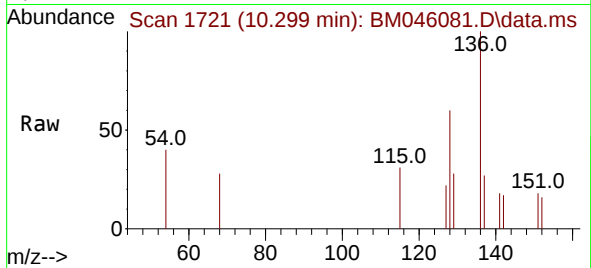
Quant Time: Jun 19 13:03:24 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM061824.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jun 18 13:58:29 2024  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.034 ng/ul  
RT: 10.299 min Scan# 11  
Delta R.T. -0.004 min  
Lab File: BM046081.D  
Acq: 19 Jun 2024 12:07

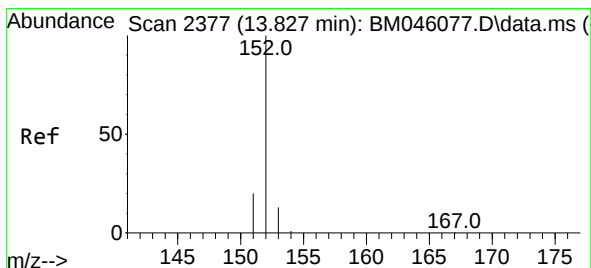
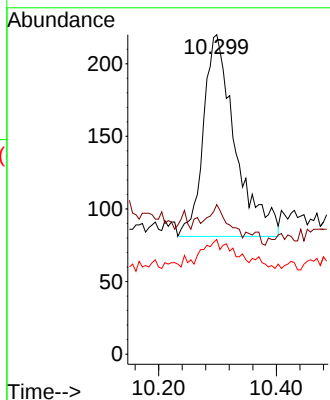
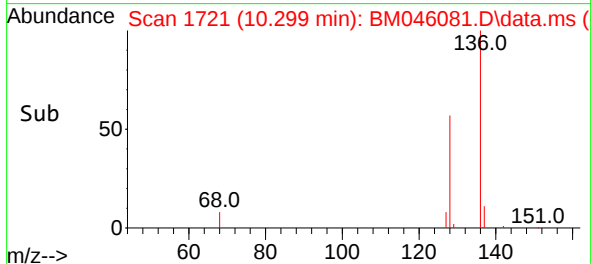
Instrument :  
BNA\_M  
ClientSampleId :  
A4B91DL



Tgt Ion:128 Resp: 52  
Ion Ratio Lower Upper  
128 100  
129 46.8 11.8 17.6  
127 35.9 12.8 19.2

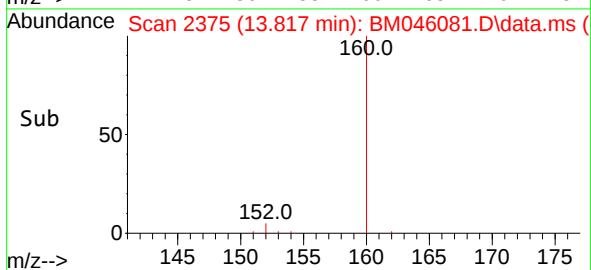
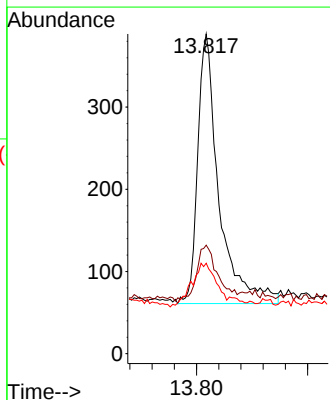
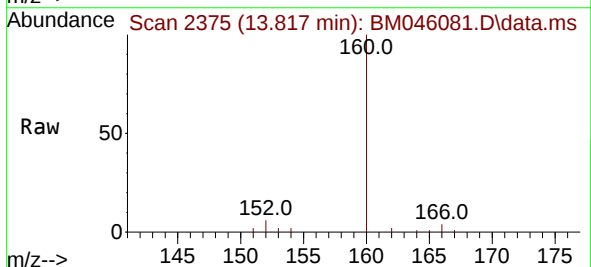
Manual Integrations  
APPROVED

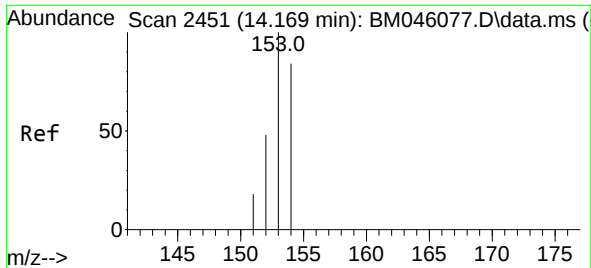
Reviewed By :Jagrut Upadhyay 06/19/2024  
Supervised By :mohammad ahmed 06/21/2024



#10  
Acenaphthylene  
Concen: 0.060 ng/ul  
RT: 13.817 min Scan# 2375  
Delta R.T. -0.017 min  
Lab File: BM046081.D  
Acq: 19 Jun 2024 12:07

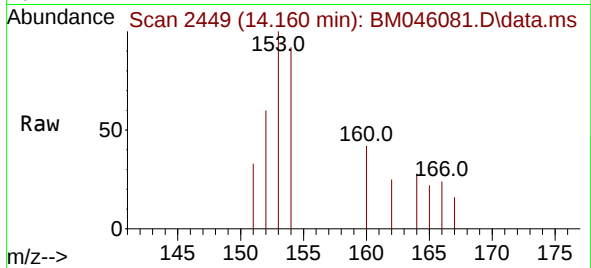
Tgt Ion:152 Resp: 870  
Ion Ratio Lower Upper  
152 100  
151 33.9 17.4 26.2#  
153 28.3 11.8 17.8#





#11  
Acenaphthene  
Concen: 0.074 ng/ul  
RT: 14.160 min Scan# 2449  
Delta R.T. -0.013 min  
Lab File: BM046081.D  
Acq: 19 Jun 2024 12:07

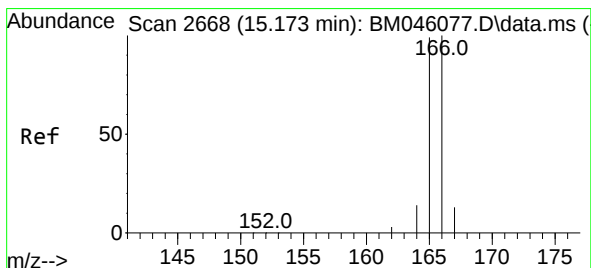
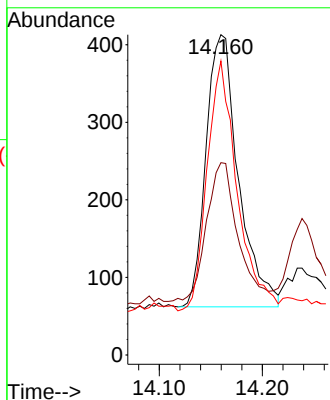
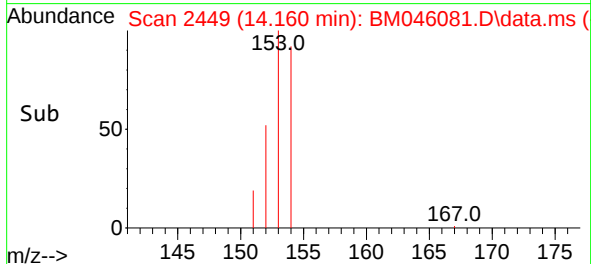
Instrument :  
BNA\_M  
ClientSampleId :  
A4B91DL



Tgt Ion:153 Resp: 768  
Ion Ratio Lower Upper  
153 100  
152 60.0 41.3 61.9  
154 91.8 68.2 102.4

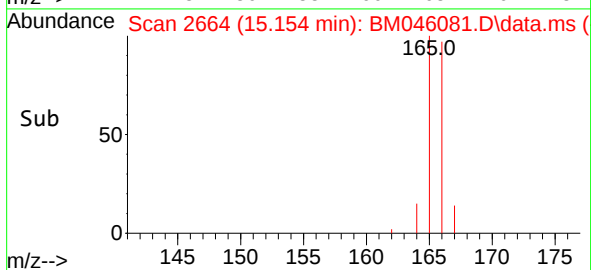
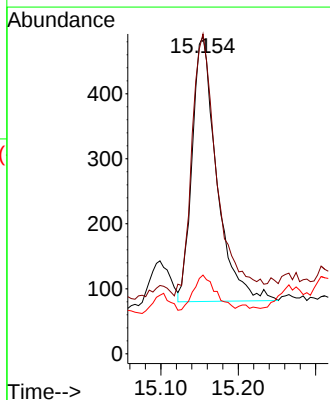
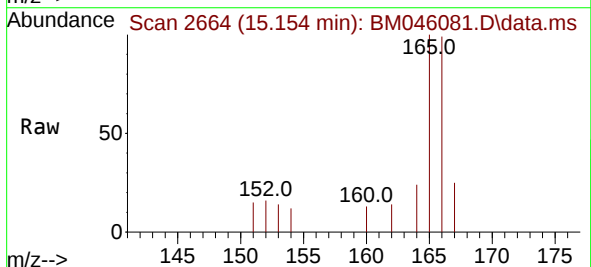
Manual Integrations  
APPROVED

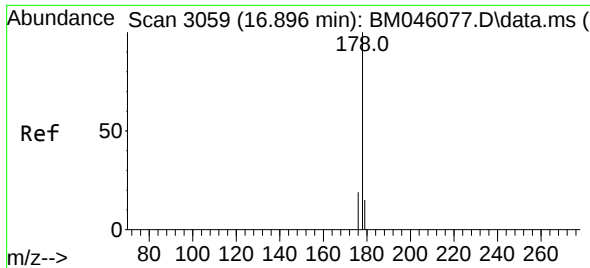
Reviewed By :Jagrut Upadhyay 06/19/2024  
Supervised By :mohammad ahmed 06/21/2024



#12  
Fluorene  
Concen: 0.080 ng/ul  
RT: 15.154 min Scan# 2664  
Delta R.T. -0.026 min  
Lab File: BM046081.D  
Acq: 19 Jun 2024 12:07

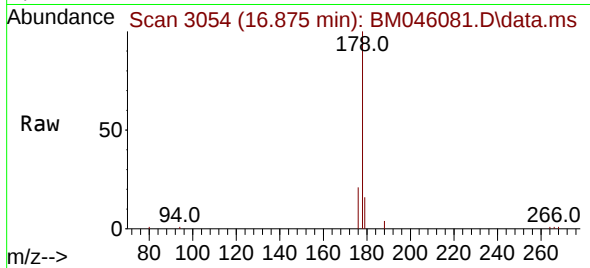
Tgt Ion:166 Resp: 898  
Ion Ratio Lower Upper  
166 100  
165 100.8 80.4 120.6  
167 24.8 12.4 18.6#





#15  
Phenanthrene  
Concen: 0.943 ng/u1  
RT: 16.875 min Scan# 3054  
Delta R.T. -0.028 min  
Lab File: BM046081.D  
Acq: 19 Jun 2024 12:07

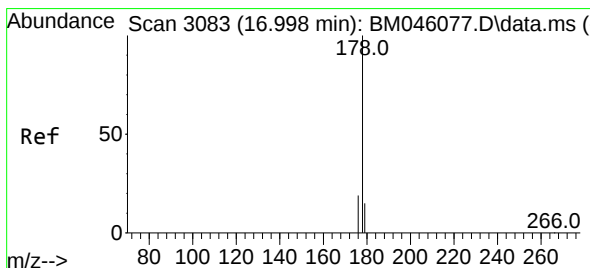
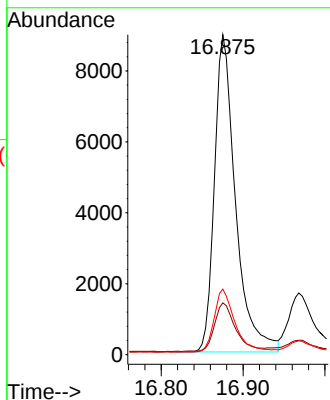
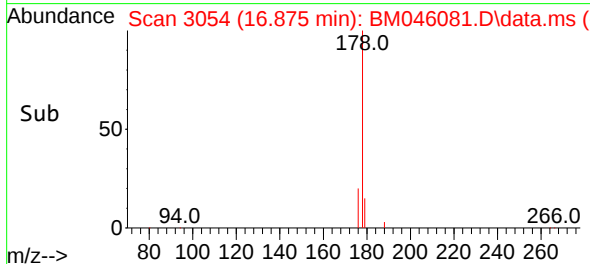
Instrument :  
BNA\_M  
ClientSampleId :  
A4B91DL



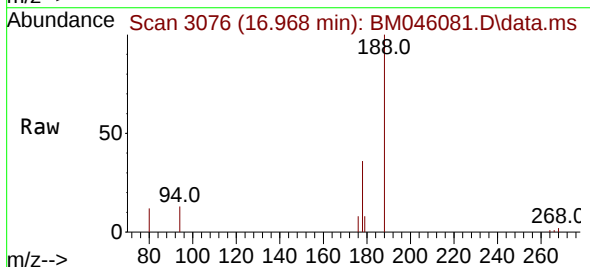
Tgt Ion:178 Resp: 16030  
Ion Ratio Lower Upper  
178 100  
179 16.2 14.2 21.2  
176 20.5 17.1 25.7

Manual Integrations  
APPROVED

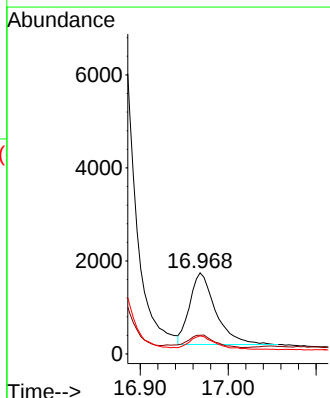
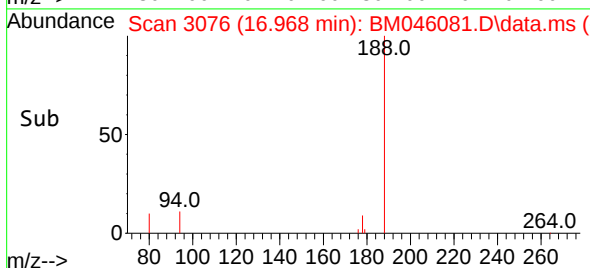
Reviewed By :Jagrut Upadhyay 06/19/2024  
Supervised By :mohammad ahmed 06/21/2024

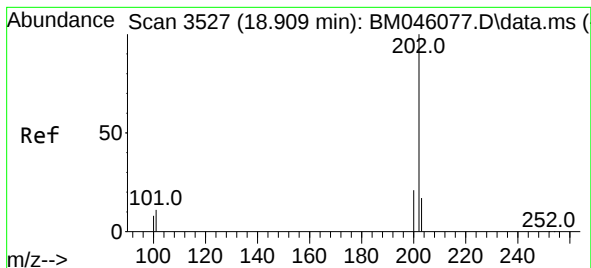


#16  
Anthracene  
Concen: 0.249 ng/u1  
RT: 16.968 min Scan# 3076  
Delta R.T. -0.037 min  
Lab File: BM046081.D  
Acq: 19 Jun 2024 12:07



Tgt Ion:178 Resp: 3151  
Ion Ratio Lower Upper  
178 100  
179 23.2 14.9 22.3#  
176 22.3 17.0 25.4





#19

Fluoranthene

Concen: 1.252 ng/ul

RT: 18.895 min Scan# 31

Delta R.T. -0.022 min

Lab File: BM046081.D

Acq: 19 Jun 2024 12:07

Instrument :

BNA\_M

ClientSampleId :

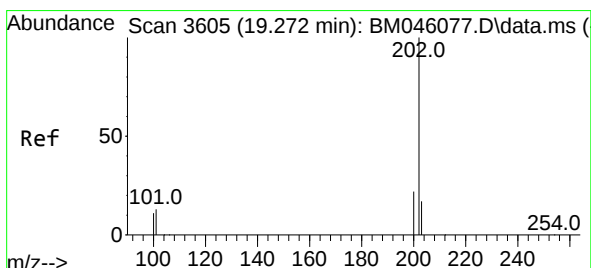
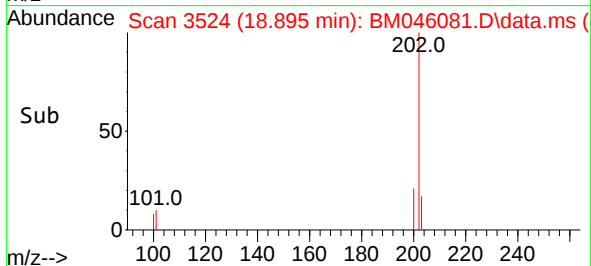
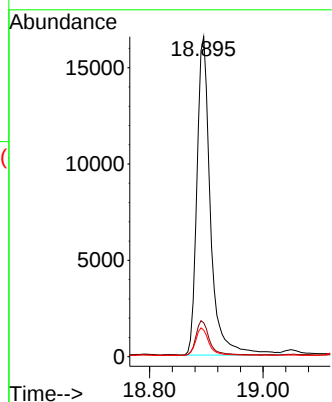
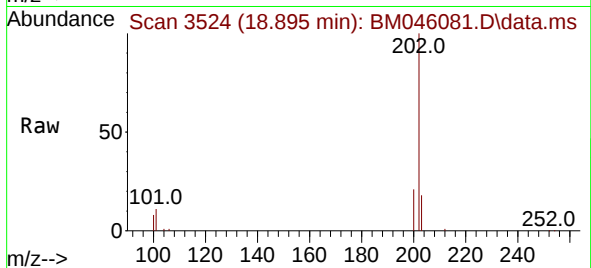
A4B91DL

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 2743 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 101       | 10.6  | 9.6   | 14.4 |
| 100       | 8.3   | 7.6   | 11.4 |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 06/19/2024  
Supervised By :mohammad ahmed 06/21/2024



#20

Pyrene

Concen: 0.877 ng/ul

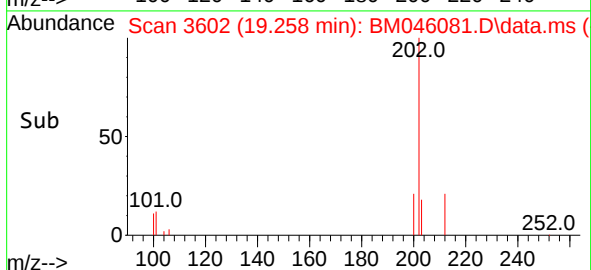
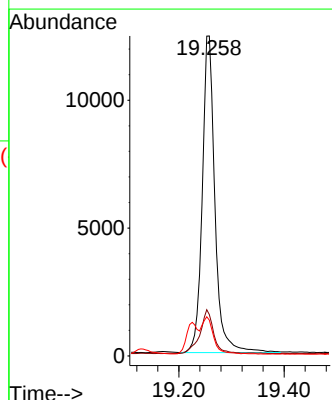
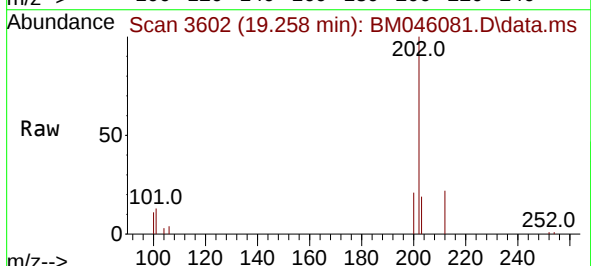
RT: 19.258 min Scan# 3602

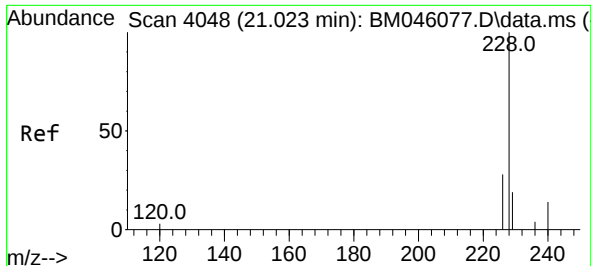
Delta R.T. -0.017 min

Lab File: BM046081.D

Acq: 19 Jun 2024 12:07

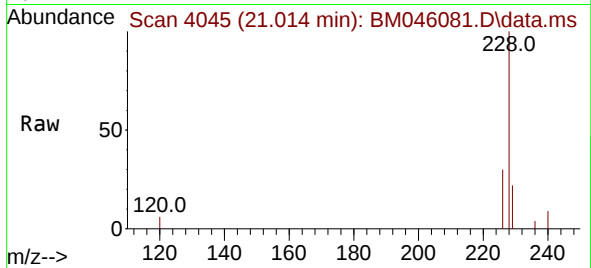
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 20783 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 12.9  | 11.3  | 16.9  |
| 100       | 11.2  | 9.8   | 14.6  |





#21  
Benzo(a)anthracene  
Concen: 0.608 ng/ul  
RT: 21.014 min Scan# 4045  
Delta R.T. -0.015 min  
Lab File: BM046081.D  
Acq: 19 Jun 2024 12:07

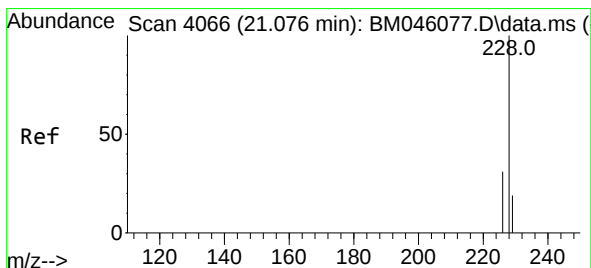
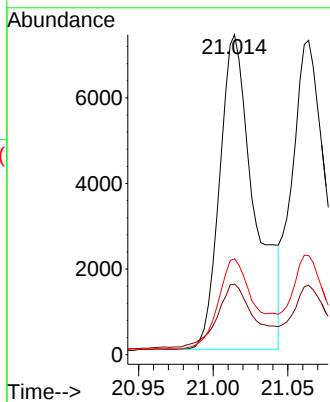
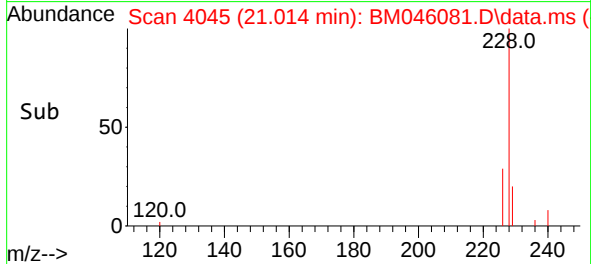
Instrument :  
BNA\_M  
ClientSampleId :  
A4B91DL



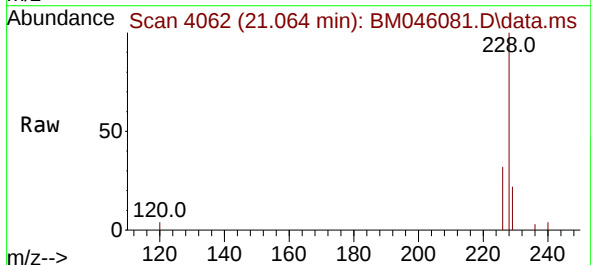
Tgt Ion:228 Resp: 1189  
Ion Ratio Lower Upper  
228 100  
229 22.1 16.4 24.6  
226 30.0 23.4 35.2

Manual Integrations  
APPROVED

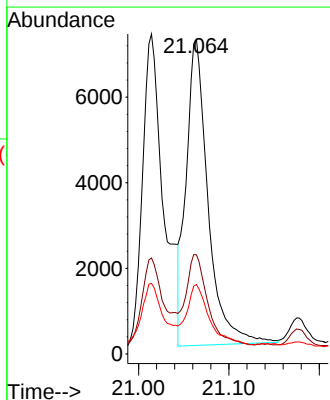
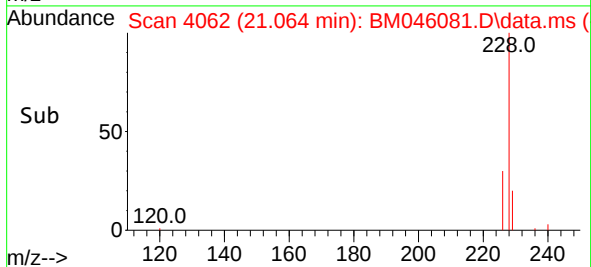
Reviewed By :Jagrut Upadhyay 06/19/2024  
Supervised By :mohammad ahmed 06/21/2024

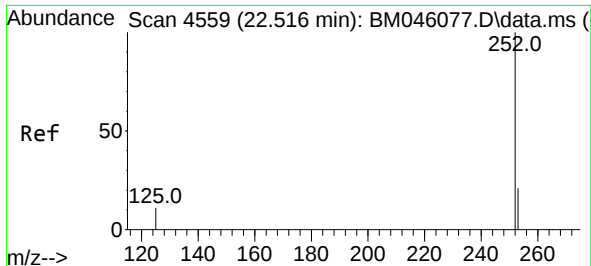


#22  
Chrysene  
Concen: 0.483 ng/ul  
RT: 21.064 min Scan# 4062  
Delta R.T. -0.012 min  
Lab File: BM046081.D  
Acq: 19 Jun 2024 12:07



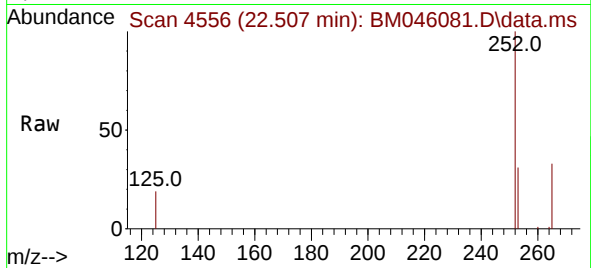
Tgt Ion:228 Resp: 12050  
Ion Ratio Lower Upper  
228 100  
226 31.5 25.2 37.8  
229 22.1 16.3 24.5





#24  
Benzo(b)fluoranthene  
Concen: 0.774 ng/ul m  
RT: 22.507 min Scan# 4556  
Delta R.T. -0.012 min  
Lab File: BM046081.D  
Acq: 19 Jun 2024 12:07

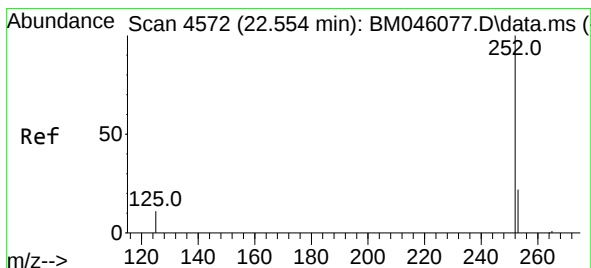
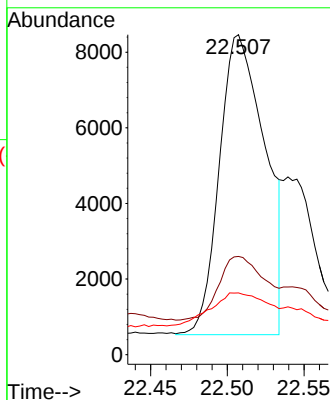
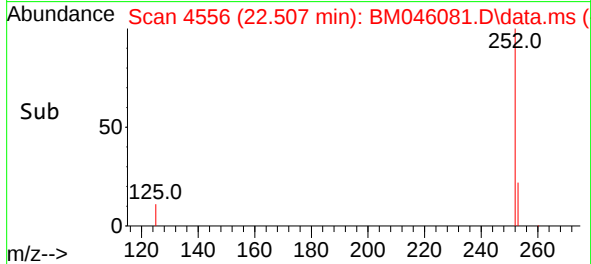
Instrument :  
BNA\_M  
ClientSampleId :  
A4B91DL



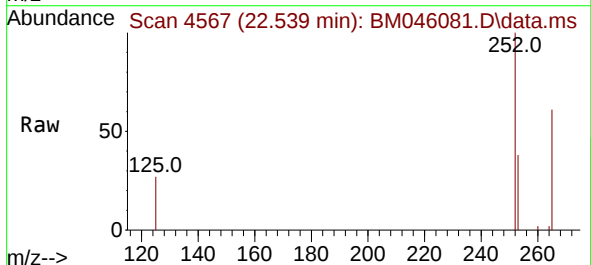
Tgt Ion:252 Resp: 16409  
Ion Ratio Lower Upper  
252 100  
253 30.7 0.0 65.8  
125 19.3 0.0 40.2

Manual Integrations  
APPROVED

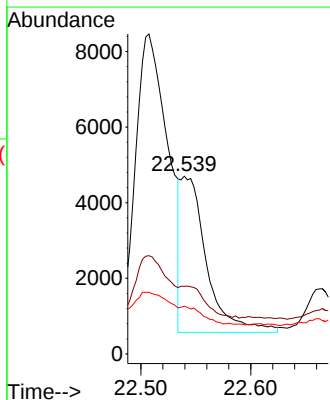
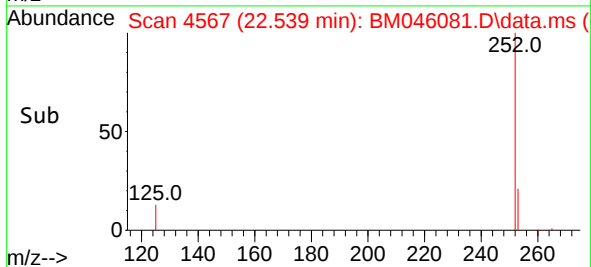
Reviewed By :Jagrut Upadhyay 06/19/2024  
Supervised By :mohammad ahmed 06/21/2024

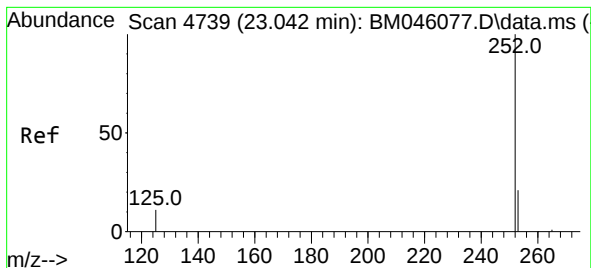


#25  
Benzo(k)fluoranthene  
Concen: 0.272 ng/ul m  
RT: 22.539 min Scan# 4567  
Delta R.T. -0.024 min  
Lab File: BM046081.D  
Acq: 19 Jun 2024 12:07



Tgt Ion:252 Resp: 6863  
Ion Ratio Lower Upper  
252 100  
253 38.1 27.2 40.8  
125 26.9 16.6 25.0#





#26

Benzo(a)pyrene

Concen: 0.288 ng/ul

RT: 23.034 min Scan# 4736

Delta R.T. -0.021 min

Lab File: BM046081.D

Acq: 19 Jun 2024 12:07

Instrument :

BNM\_M

ClientSampleId :

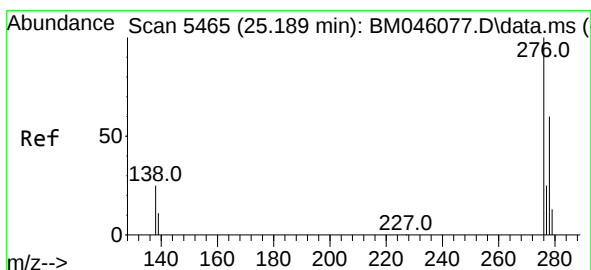
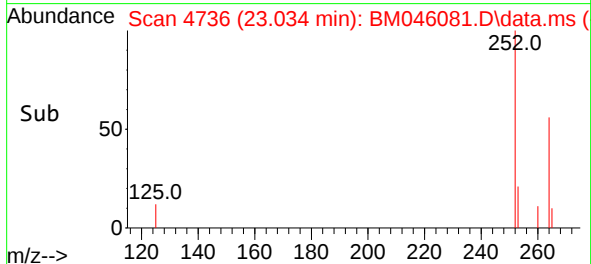
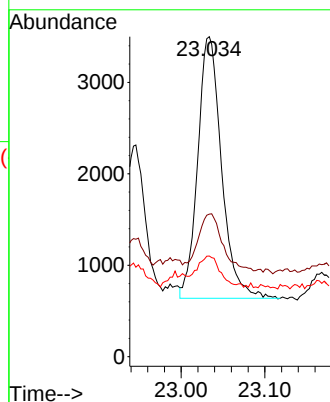
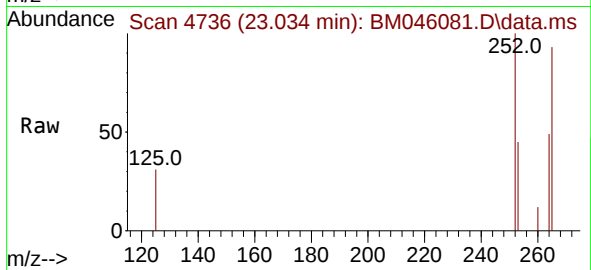
A4B91DL

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 566  |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 44.6  | 32.1  | 48.1 |
| 125       | 31.4  | 21.2  | 31.8 |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 06/19/2024  
Supervised By :mohammad ahmed 06/21/2024



#27

Indeno(1,2,3-cd)pyrene

Concen: 0.178 ng/ul

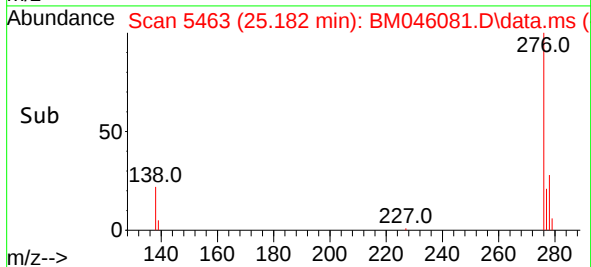
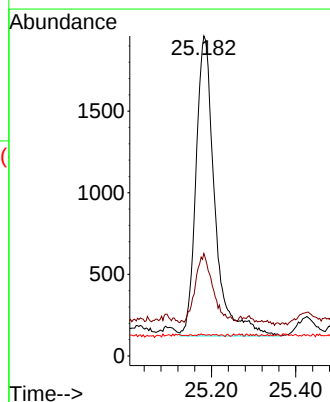
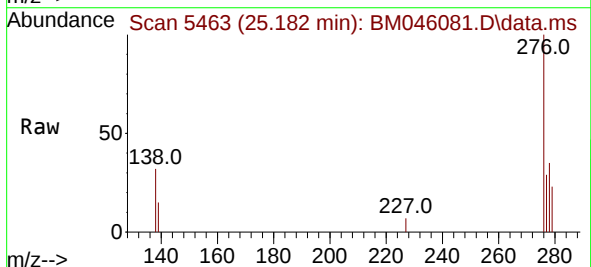
RT: 25.182 min Scan# 5463

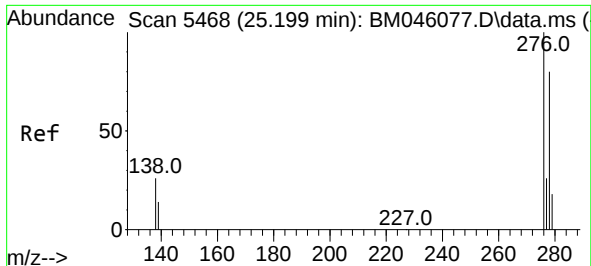
Delta R.T. -0.021 min

Lab File: BM046081.D

Acq: 19 Jun 2024 12:07

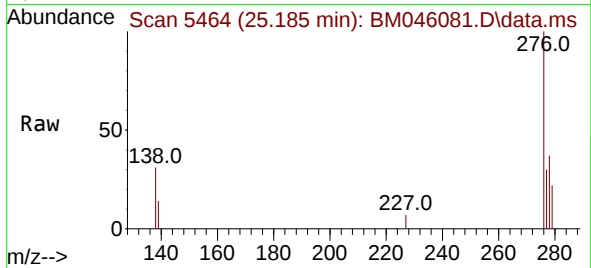
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 276   | Resp: | 5721 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 138       | 21.9  | 21.0  | 31.4 |
| 227       | 0.2   | 0.0   | 0.0  |





#28  
Dibenzo(a,h)anthracene  
Concen: 0.081 ng/ul  
RT: 25.185 min Scan# 5464  
Delta R.T. -0.031 min  
Lab File: BM046081.D  
Acq: 19 Jun 2024 12:07

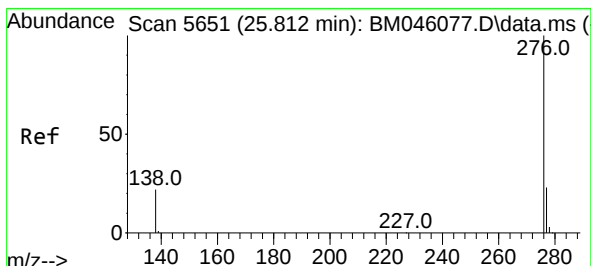
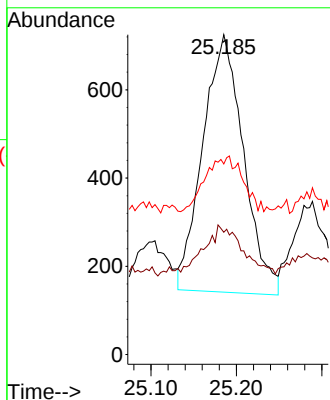
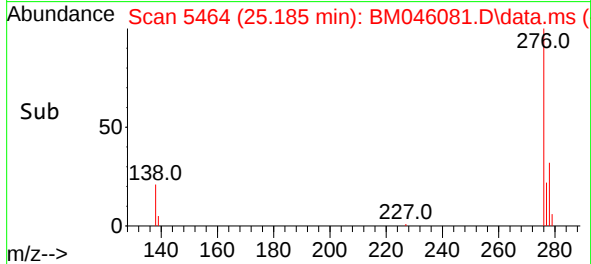
Instrument :  
BNA\_M  
ClientSampleId :  
A4B91DL



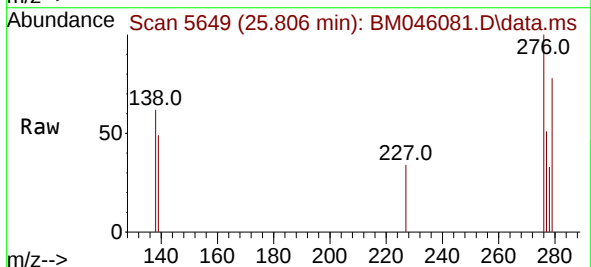
Tgt Ion:278 Resp: 193  
Ion Ratio Lower Upper  
278 100  
139 38.2 17.6 26.4#  
279 59.6 26.3 39.5#

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 06/19/2024  
Supervised By :mohammad ahmed 06/21/2024



#29  
Benzo(g,h,i)perylene  
Concen: 0.034 ng/ul  
RT: 25.806 min Scan# 5649  
Delta R.T. -0.024 min  
Lab File: BM046081.D  
Acq: 19 Jun 2024 12:07



Tgt Ion:276 Resp: 942  
Ion Ratio Lower Upper  
276 100  
138 61.6 21.7 32.5#  
277 51.1 20.4 30.6#

