

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM061024\  
 Data File : BM045951.D  
 Acq On : 10 Jun 2024 15:20  
 Operator : MA/JU  
 Sample : P2642-13  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4B37

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 06/10/2024  
 Supervised By :mohammad ahmed 06/13/2024

Quant Time: Jun 10 16:04:53 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Jun 07 22:59:16 2024

Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.459  | 152  | 5813     | 0.400 | ng/ul  | -0.03    |
| 4) Naphthalene-d8           | 10.231 | 136  | 18618    | 0.400 | ng/ul  | -0.02    |
| 9) Acenaphthene-d10         | 14.107 | 164  | 9489     | 0.400 | ng/ul  | -0.01    |
| 13) Phenanthrene-d10        | 16.844 | 188  | 18751    | 0.400 | ng/ul  | -0.02    |
| 17) Chrysene-d12            | 21.041 | 240  | 15208    | 0.400 | ng/ul  | -0.01    |
| 23) Perylene-d12            | 23.148 | 264  | 16152m   | 0.400 | ng/ul  | -0.02    |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.054  | 96   | 15829    | 2.391 | ng/ul  | -0.03    |
| 6) 2-Methylnaphthalene-d10  | 11.842 | 152  | 3742     | 0.140 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 18.880 | 212  | 7293     | 0.160 | ng/ul  | -0.01    |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.281 | 128  | 1135     | 0.023 | ng/ul# | 76       |
| 10) Acenaphthylene          | 13.821 | 152  | 3762     | 0.087 | ng/ul  | 94       |
| 12) Fluorene                | 15.158 | 166  | 984      | 0.028 | ng/ul# | 94       |
| 15) Phenanthrene            | 16.887 | 178  | 16891    | 0.321 | ng/ul  | 98       |
| 16) Anthracene              | 16.979 | 178  | 5299     | 0.118 | ng/ul# | 93       |
| 19) Fluoranthene            | 18.908 | 202  | 54787    | 0.903 | ng/ul  | 99       |
| 20) Pyrene                  | 19.270 | 202  | 49326    | 0.780 | ng/ul  | 98       |
| 21) Benzo(a)anthracene      | 21.026 | 228  | 29183    | 0.523 | ng/ul  | 96       |
| 22) Chrysene                | 21.079 | 228  | 28292    | 0.466 | ng/ul  | 98       |
| 24) Benzo(b)fluoranthene    | 22.528 | 252  | 35636m   | 0.665 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.563 | 252  | 15545m   | 0.264 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.054 | 252  | 26168    | 0.491 | ng/ul  | 92       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.209 | 276  | 18588    | 0.270 | ng/ul# | 89       |
| 28) Dibenzo(a,h)anthracene  | 25.212 | 278  | 4523     | 0.082 | ng/ul# | 59       |
| 29) Benzo(g,h,i)perylene    | 25.839 | 276  | 17585    | 0.296 | ng/ul  | 99       |
| -----                       |        |      |          |       |        |          |

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

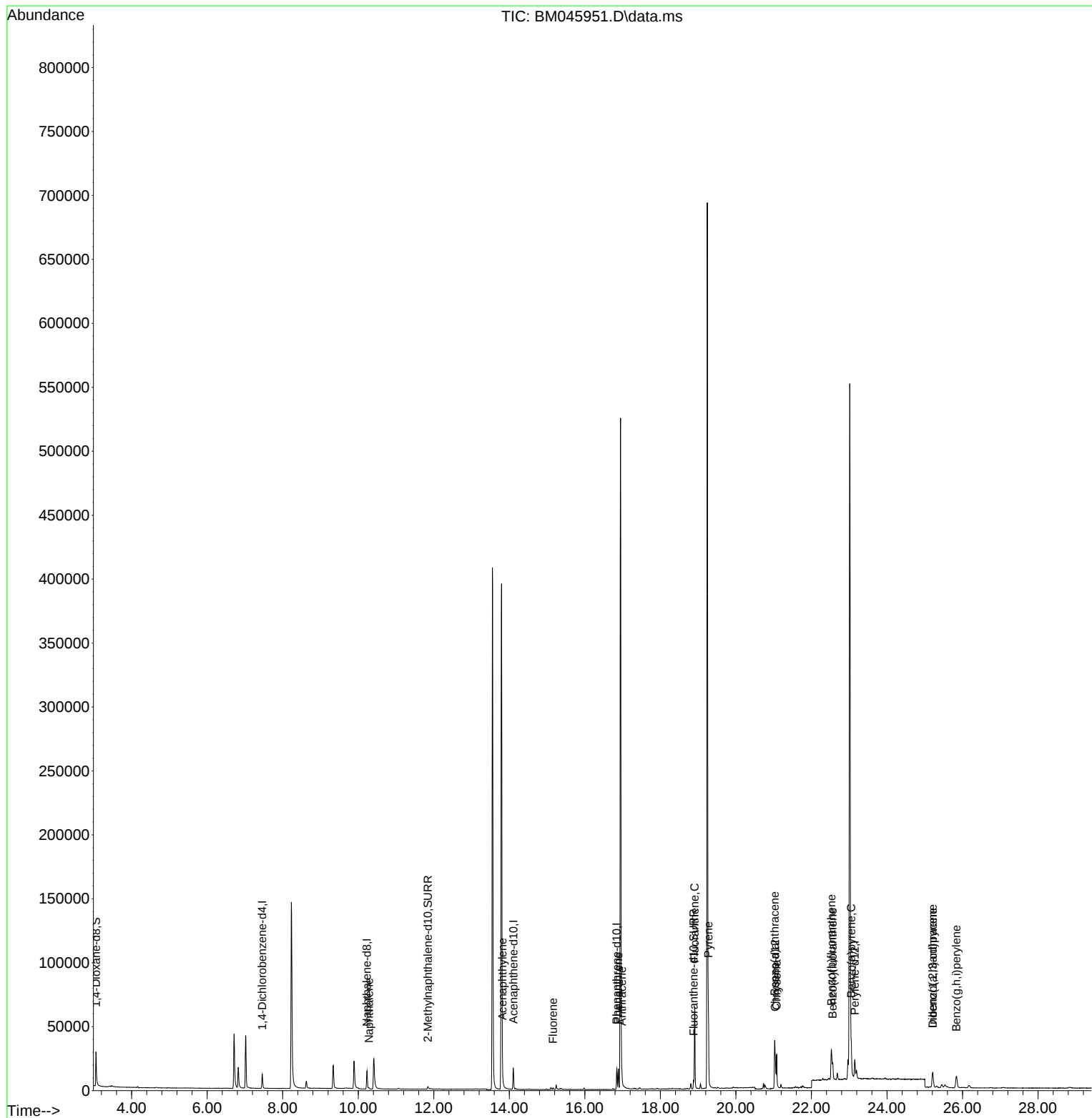
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM061024\  
Data File : BM045951.D  
Acq On : 10 Jun 2024 15:20  
Operator : MA/JU  
Sample : P2642-13  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

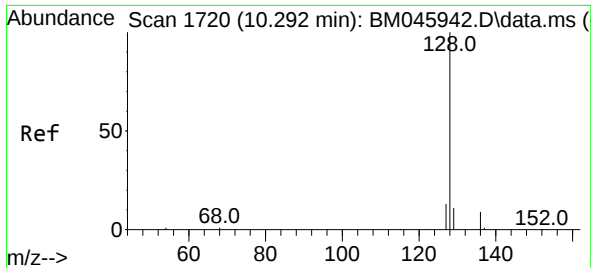
Instrument :  
BNA\_M  
ClientSampleId :  
A4B37

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024

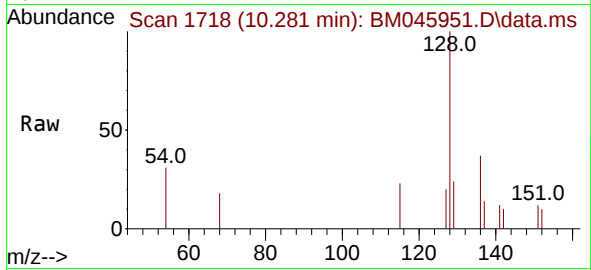
Quant Time: Jun 10 16:04:53 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 07 22:59:16 2024  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.023 ng/u1  
RT: 10.281 min Scan# 1718  
Delta R.T. -0.022 min  
Lab File: BM045951.D  
Acq: 10 Jun 2024 15:20

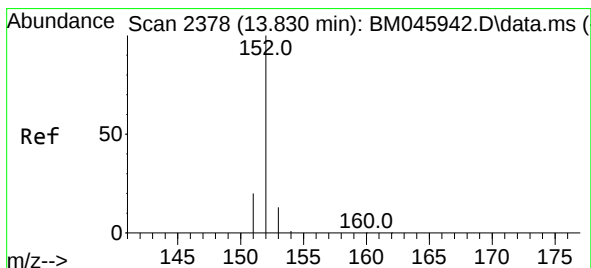
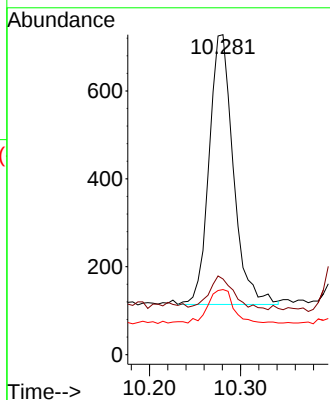
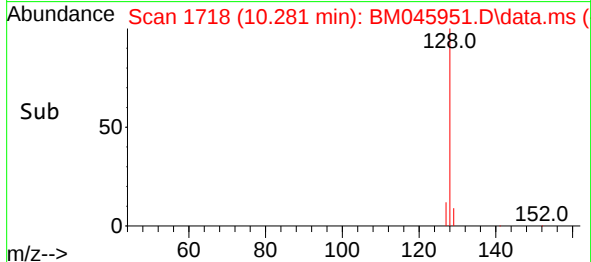
Instrument :  
BNA\_M  
ClientSampleId :  
A4B37



Tgt Ion:128 Resp: 1135  
Ion Ratio Lower Upper  
128 100  
129 23.6 9.4 14.0  
127 20.3 10.6 15.8

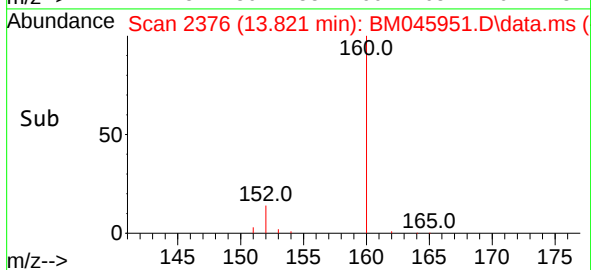
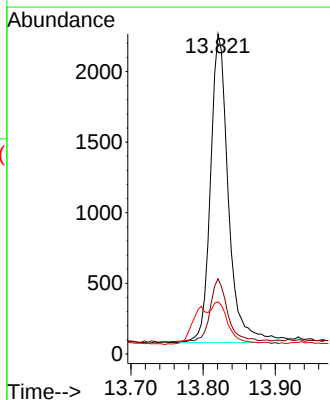
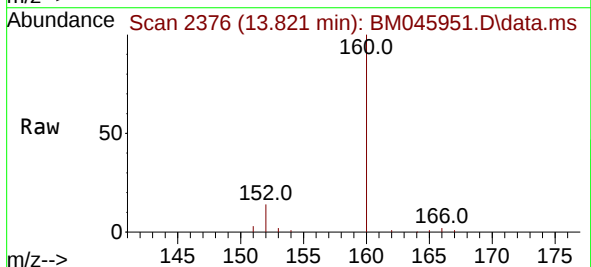
Manual Integrations  
APPROVED

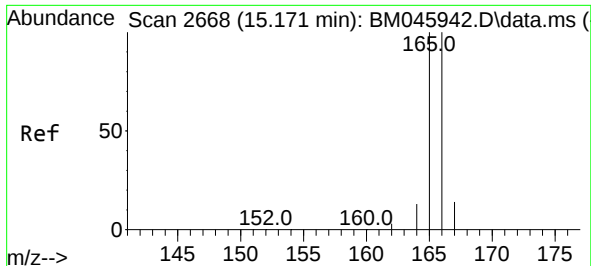
Reviewed By :Jagrut Upadhyay 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



#10  
Acenaphthylene  
Concen: 0.087 ng/u1  
RT: 13.821 min Scan# 2376  
Delta R.T. -0.019 min  
Lab File: BM045951.D  
Acq: 10 Jun 2024 15:20

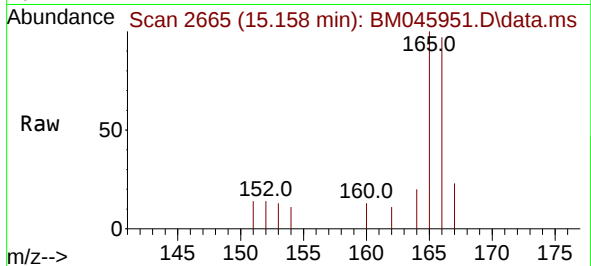
Tgt Ion:152 Resp: 3762  
Ion Ratio Lower Upper  
152 100  
151 23.5 16.4 24.6  
153 16.3 11.1 16.7





#12  
Fluorene  
Concen: 0.028 ng/u1  
RT: 15.158 min Scan# 20  
Delta R.T. -0.019 min  
Lab File: BM045951.D  
Acq: 10 Jun 2024 15:20

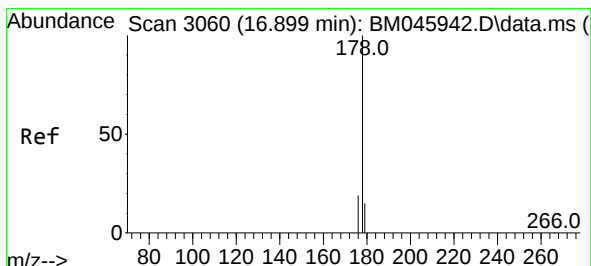
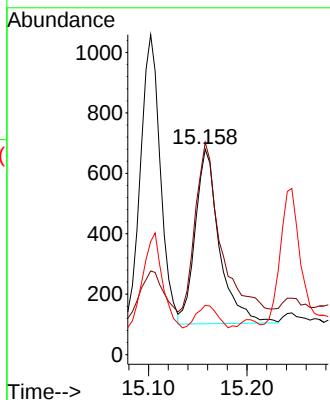
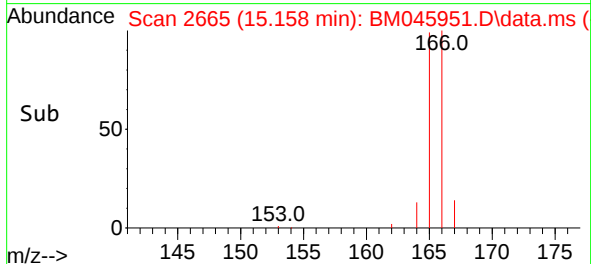
Instrument :  
BNA\_M  
ClientSampleId :  
A4B37



Tgt Ion:166 Resp: 984  
Ion Ratio Lower Upper  
166 100  
165 103.4 79.7 119.5  
167 24.0 11.3 16.9

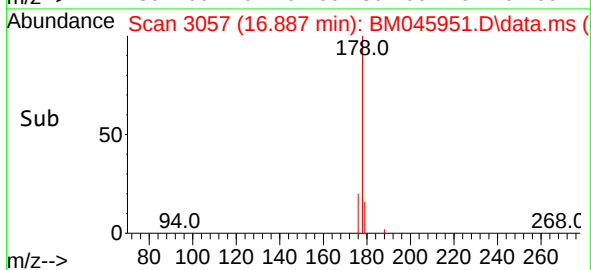
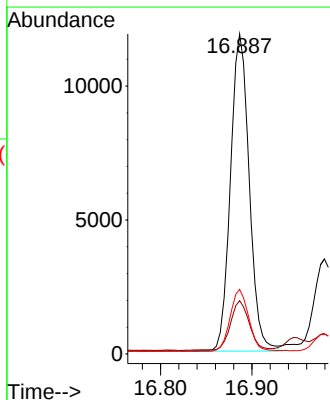
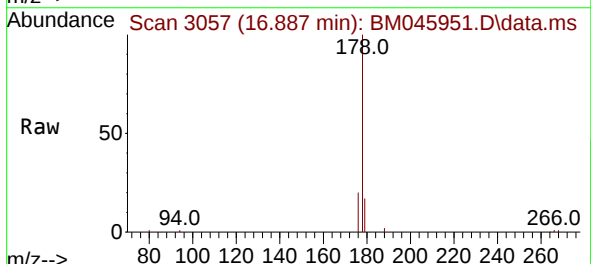
Manual Integrations  
APPROVED

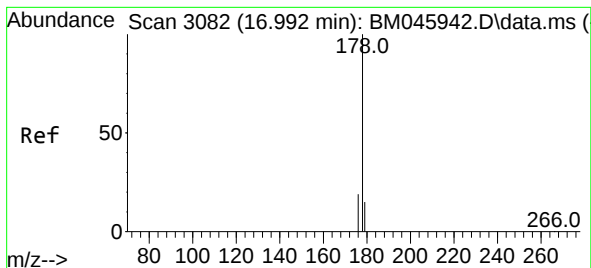
Reviewed By :Jagrut Upadhyay 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



#15  
Phenanthrene  
Concen: 0.321 ng/u1  
RT: 16.887 min Scan# 3057  
Delta R.T. -0.017 min  
Lab File: BM045951.D  
Acq: 10 Jun 2024 15:20

Tgt Ion:178 Resp: 16891  
Ion Ratio Lower Upper  
178 100  
179 16.7 12.7 19.1  
176 20.2 15.6 23.4





#16

Anthracene

Concen: 0.118 ng/ul

RT: 16.979 min Scan# 3082

Delta R.T. -0.017 min

Lab File: BM045951.D

Acq: 10 Jun 2024 15:20

Instrument :

BNA\_M

ClientSampleId :

A4B37

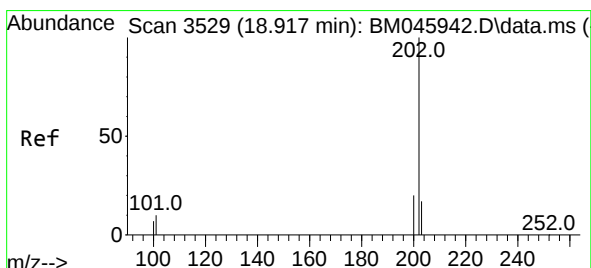
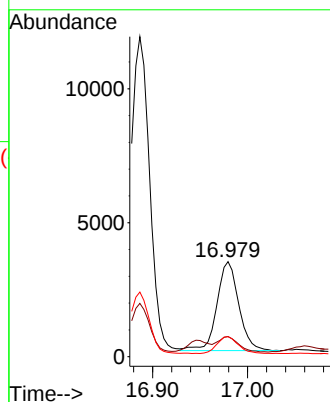
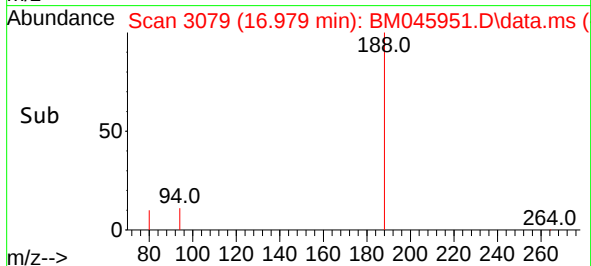
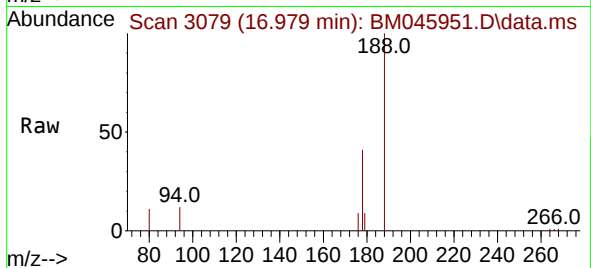
Tgt Ion:178 Resp: 5295

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 21.2  | 13.1  | 19.7  |
| 176 | 21.0  | 15.5  | 23.3  |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



#19

Fluoranthene

Concen: 0.903 ng/ul

RT: 18.908 min Scan# 3527

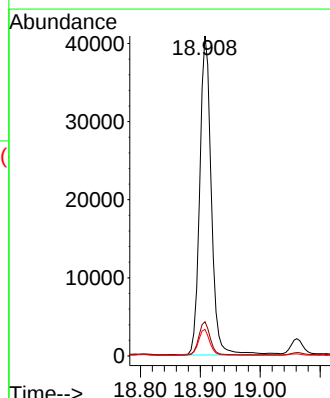
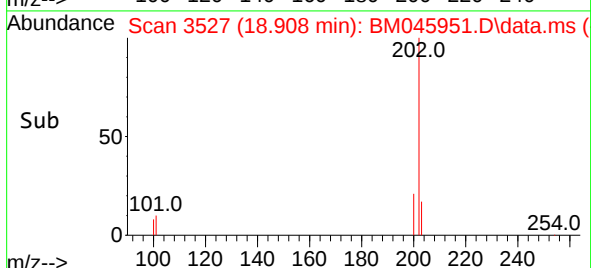
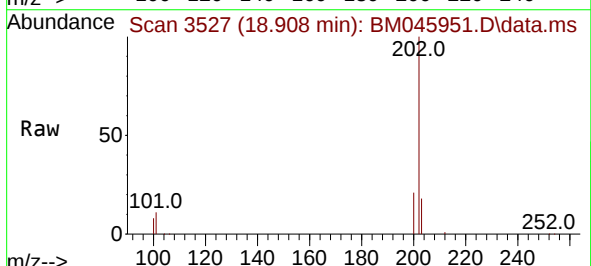
Delta R.T. -0.014 min

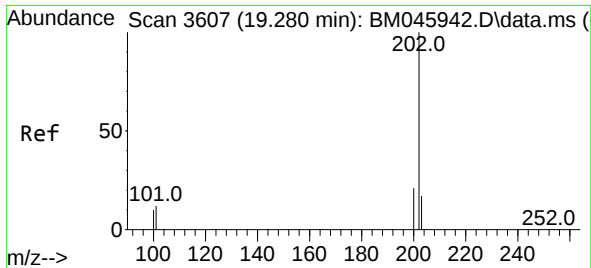
Lab File: BM045951.D

Acq: 10 Jun 2024 15:20

Tgt Ion:202 Resp: 54787

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 10.7  | 9.0   | 13.6  |
| 100 | 8.3   | 7.0   | 10.6  |





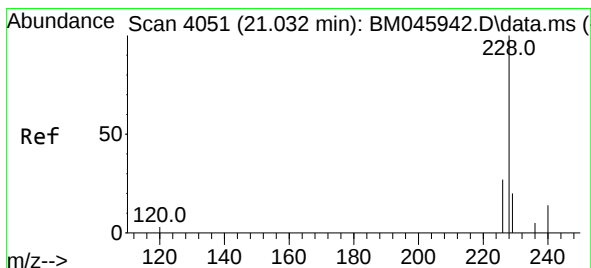
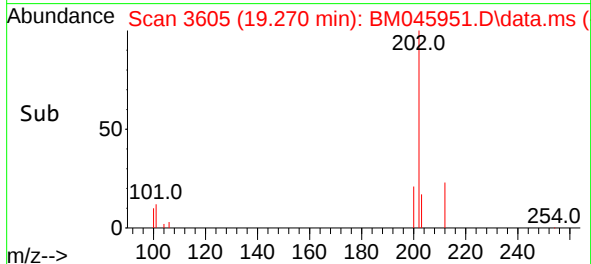
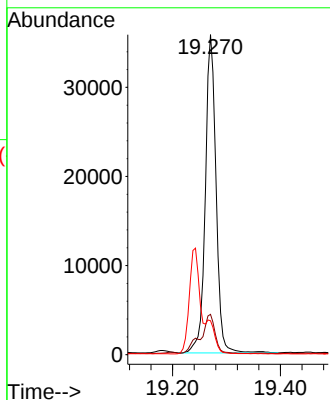
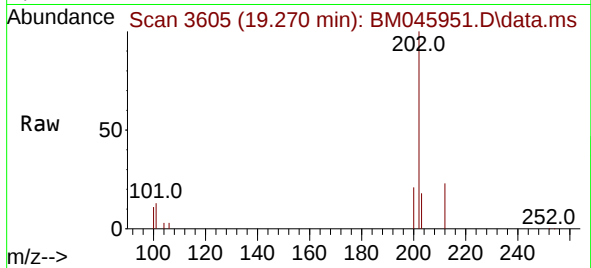
#20  
Pyrene  
Concen: 0.780 ng/u1  
RT: 19.270 min Scan# 30  
Delta R.T. -0.014 min  
Lab File: BM045951.D  
Acq: 10 Jun 2024 15:20

Instrument :  
BNA\_M  
ClientSampleId :  
A4B37

Tgt Ion:202 Resp: 49320  
Ion Ratio Lower Upper  
202 100  
101 12.6 10.6 16.0  
100 10.6 9.1 13.7

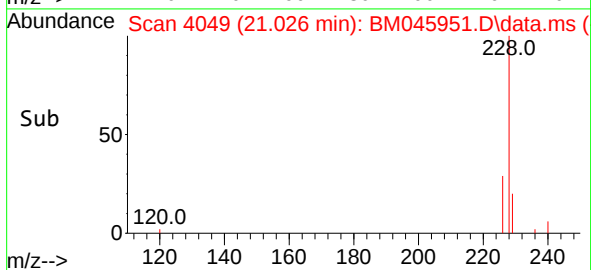
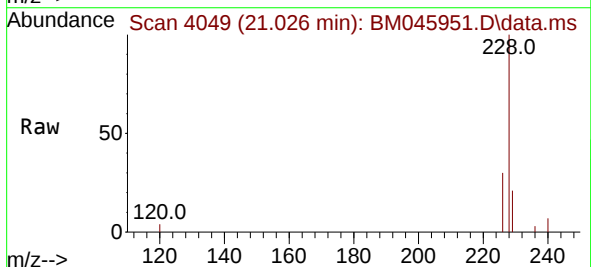
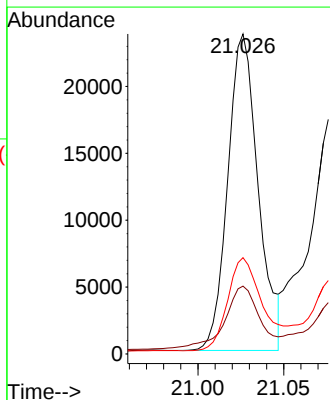
Manual Integrations  
APPROVED

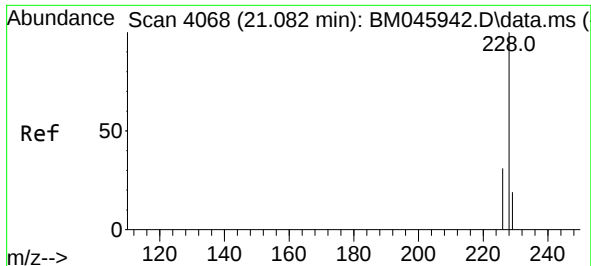
Reviewed By :Jagrut Upadhyay 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



#21  
Benzo(a)anthracene  
Concen: 0.523 ng/u1  
RT: 21.026 min Scan# 4049  
Delta R.T. -0.009 min  
Lab File: BM045951.D  
Acq: 10 Jun 2024 15:20

Tgt Ion:228 Resp: 29183  
Ion Ratio Lower Upper  
228 100  
229 21.2 15.7 23.5  
226 30.1 22.0 33.0





#22

Chrysene

Concen: 0.466 ng/ul

RT: 21.079 min Scan# 4068

Delta R.T. -0.009 min

Lab File: BM045951.D

Acq: 10 Jun 2024 15:20

Instrument :

BNA\_M

ClientSampleId :

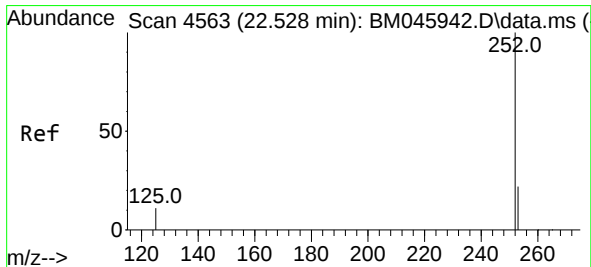
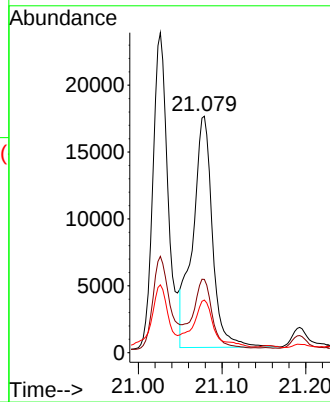
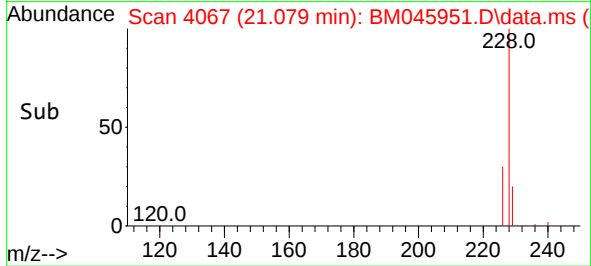
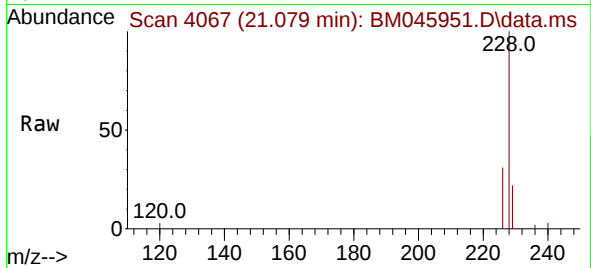
A4B37

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:228 | Resp: | 2829      |
| Ion Ratio   | Lower | Upper     |
| 228         | 100   |           |
| 226         | 31.0  | 24.5 36.7 |
| 229         | 22.3  | 16.2 24.2 |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



#24

Benzo(b)fluoranthene

Concen: 0.665 ng/ul m

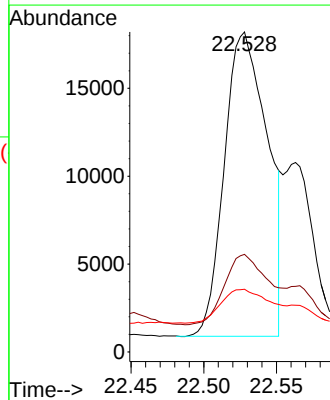
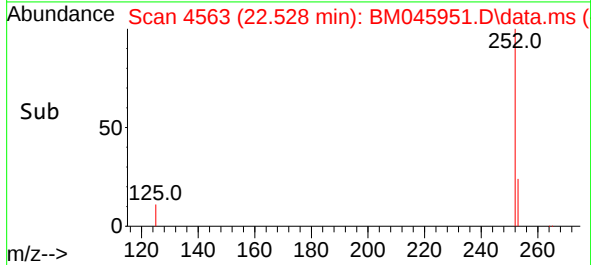
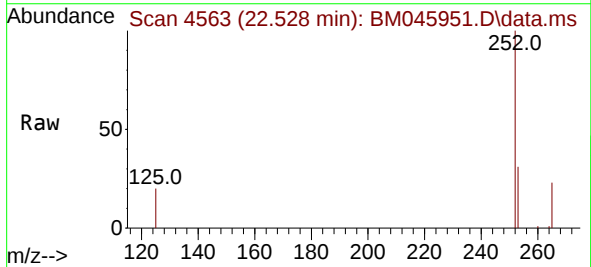
RT: 22.528 min Scan# 4563

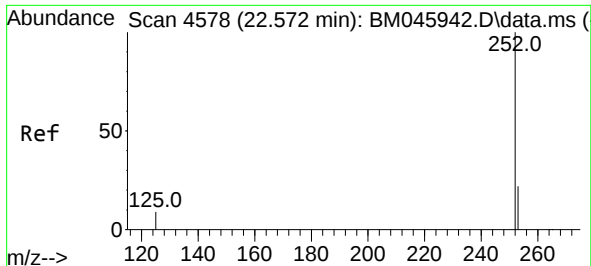
Delta R.T. -0.009 min

Lab File: BM045951.D

Acq: 10 Jun 2024 15:20

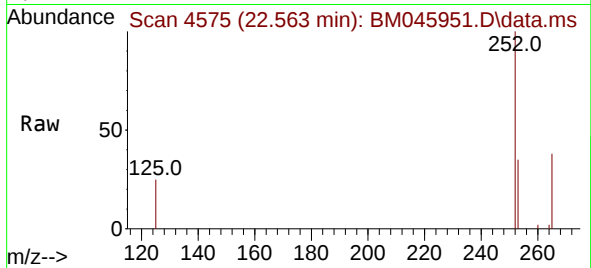
|             |       |          |
|-------------|-------|----------|
| Tgt Ion:252 | Resp: | 35636    |
| Ion Ratio   | Lower | Upper    |
| 252         | 100   |          |
| 253         | 30.5  | 0.0 63.6 |
| 125         | 19.6  | 0.0 35.8 |





#25  
Benzo(k)fluoranthene  
Concen: 0.264 ng/ul m  
RT: 22.563 min Scan# 4575  
Delta R.T. -0.018 min  
Lab File: BM045951.D  
Acq: 10 Jun 2024 15:20

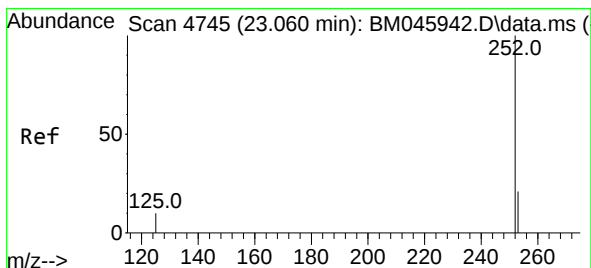
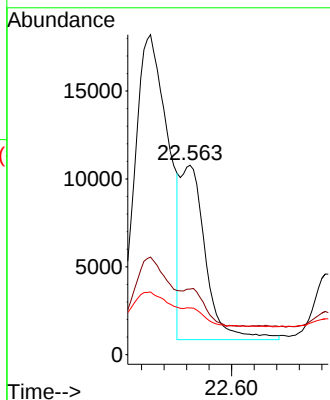
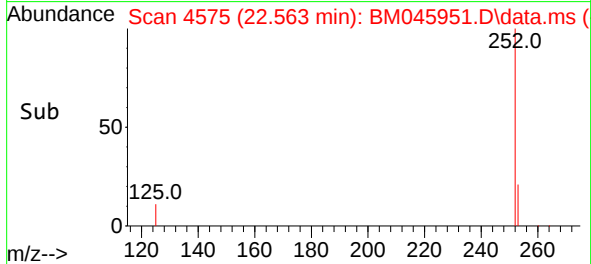
Instrument :  
BNA\_M  
ClientSampleId :  
A4B37



Tgt Ion:252 Resp: 1554  
Ion Ratio Lower Upper  
252 100  
253 34.6 25.0 37.6  
125 24.7 14.2 21.2

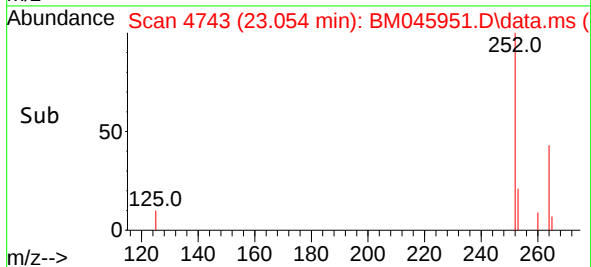
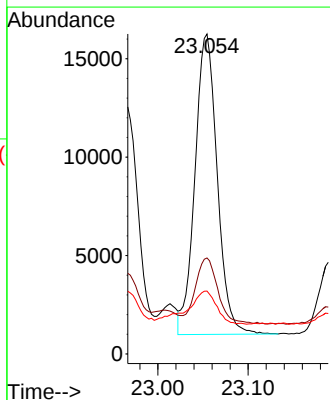
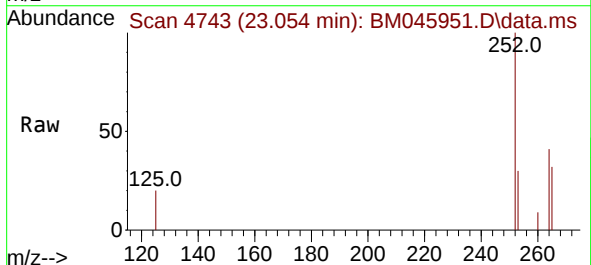
Manual Integrations  
APPROVED

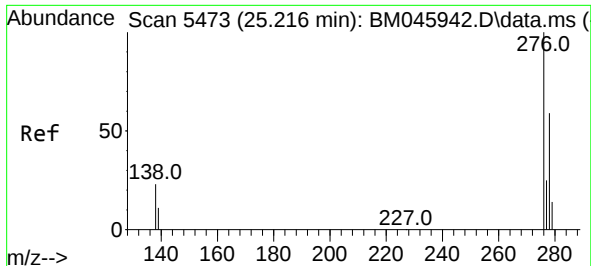
Reviewed By :Jagrut Upadhyay 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



#26  
Benzo(a)pyrene  
Concen: 0.491 ng/ul  
RT: 23.054 min Scan# 4743  
Delta R.T. -0.018 min  
Lab File: BM045951.D  
Acq: 10 Jun 2024 15:20

Tgt Ion:252 Resp: 26168  
Ion Ratio Lower Upper  
252 100  
253 30.0 28.8 43.2  
125 19.6 17.3 25.9





#27

Indeno(1,2,3-cd)pyrene

Concen: 0.270 ng/ul

RT: 25.209 min Scan# 5471

Delta R.T. -0.023 min

Lab File: BM045951.D

Acq: 10 Jun 2024 15:20

Instrument :

BNA\_M

ClientSampleId :

A4B37

Tgt Ion:276 Resp: 1858

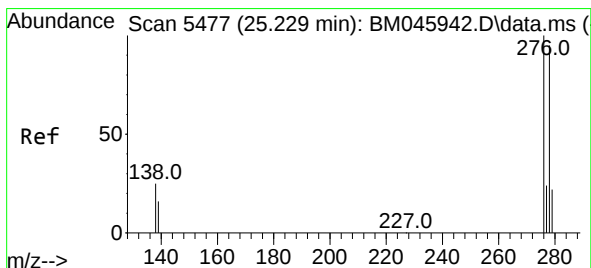
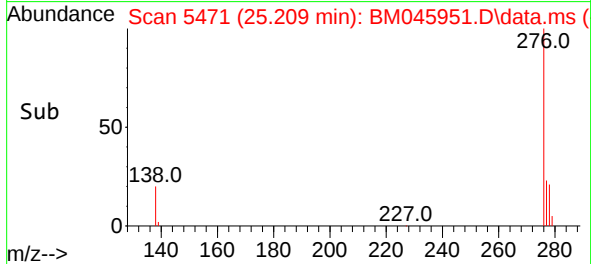
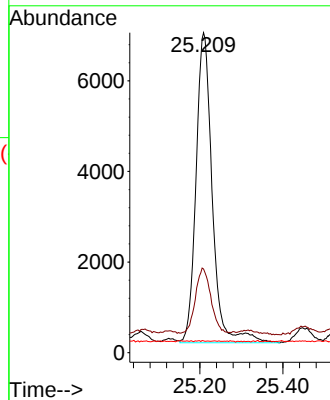
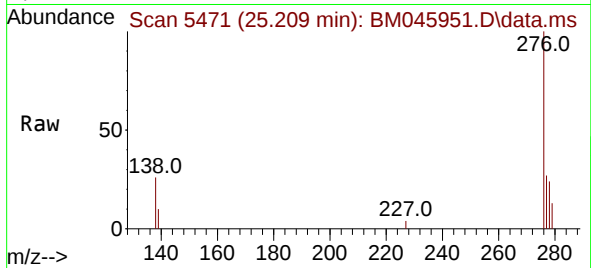
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 20.4  | 20.7  | 31.1  |
| 227 | 0.1   | 0.2   | 0.2   |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 06/10/2024

Supervised By :mohammad ahmed 06/13/2024



#28

Dibenzo(a,h)anthracene

Concen: 0.082 ng/ul

RT: 25.212 min Scan# 5472

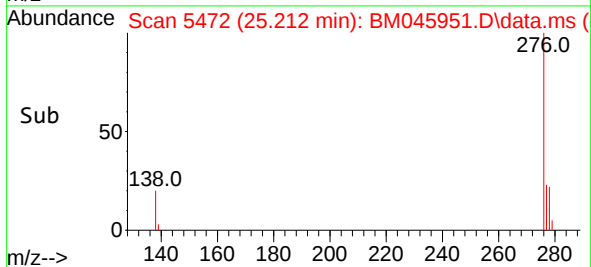
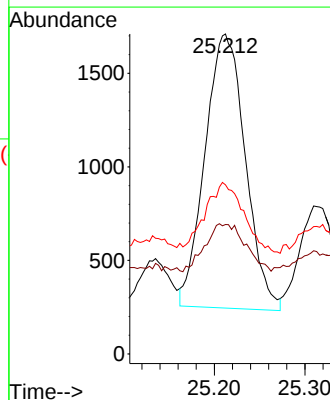
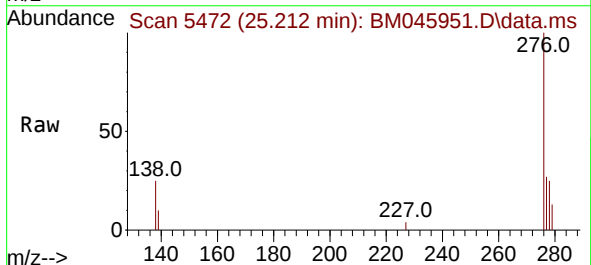
Delta R.T. -0.037 min

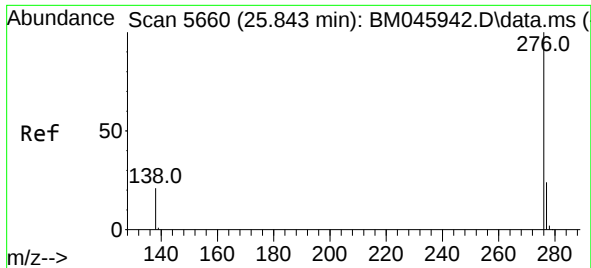
Lab File: BM045951.D

Acq: 10 Jun 2024 15:20

Tgt Ion:278 Resp: 4523

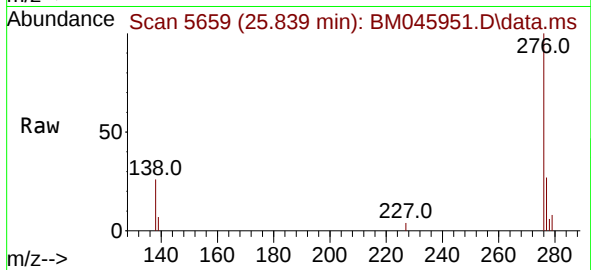
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100   |       |       |
| 139 | 40.5  | 16.6  | 25.0  |
| 279 | 52.9  | 24.6  | 37.0  |





#29  
Benzo(g,h,i)perylene  
Concen: 0.296 ng/ul  
RT: 25.839 min Scan# 50  
Delta R.T. -0.023 min  
Lab File: BM045951.D  
Acq: 10 Jun 2024 15:20

Instrument :  
BNA\_M  
ClientSampleId :  
A4B37



Tgt Ion:276 Resp: 1758  
Ion Ratio Lower Upper  
276 100  
138 26.2 21.0 31.4  
277 26.7 20.5 30.7

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024

