

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
 Data File : BM045910.D  
 Acq On : 08 Jun 2024 11:26  
 Operator : MA/JU  
 Sample : P2640-04  
 Misc :  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4C15

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 06/10/2024  
 Supervised By :mohammad ahmed 06/13/2024

Quant Time: Jun 10 01:27:36 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   | 7.464  | 152  | 5285     | 0.400  | ng/ul  | -0.02    |
| 4) Naphthalene-d8           | 10.233 | 136  | 18173    | 0.400  | ng/ul  | -0.02    |
| 9) Acenaphthene-d10         | 14.109 | 164  | 10098    | 0.400  | ng/ul  | -0.01    |
| 13) Phenanthrene-d10        | 16.850 | 188  | 24721m   | 0.400  | ng/ul  | -0.02    |
| 17) Chrysene-d12            | 21.044 | 240  | 16209m   | 0.400  | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.151 | 264  | 17216m   | 0.400  | ng/ul  | -0.02    |
|                             |        |      |          |        |        |          |
| System Monitoring Compounds |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8           | 3.054  | 96   | 32632    | 5.421  | ng/ul  | -0.03    |
| 6) 2-Methylnaphthalene-d10  | 11.838 | 152  | 8793     | 0.336  | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 18.881 | 212  | 22933m   | 0.472  | ng/ul  | -0.01    |
|                             |        |      |          |        |        |          |
| Target Compounds            |        |      |          |        | Qvalue |          |
| 5) Naphthalene              | 10.282 | 128  | 34804    | 0.733  | ng/ul  | 100      |
| 7) 2-Methylnaphthalene      | 11.910 | 142  | 12810    | 0.423  | ng/ul  | 98       |
| 8) 1-Methylnaphthalene      | 12.130 | 142  | 11177    | 0.339  | ng/ul  | 99       |
| 10) Acenaphthylene          | 13.827 | 152  | 37328    | 0.813  | ng/ul  | 99       |
| 11) Acenaphthene            | 14.169 | 153  | 66945    | 1.984  | ng/ul  | 99       |
| 12) Fluorene                | 15.159 | 166  | 75860    | 2.011  | ng/ul  | 99       |
| 15) Phenanthrene            | 16.888 | 178  | 1552066m | 22.362 | ng/ul  |          |
| 16) Anthracene              | 16.981 | 178  | 257337m  | 4.347  | ng/ul  |          |
| 19) Fluoranthene            | 18.914 | 202  | 2665719m | 41.243 | ng/ul  |          |
| 20) Pyrene                  | 19.276 | 202  | 1923704m | 28.531 | ng/ul  |          |
| 21) Benzo(a)anthracene      | 21.029 | 228  | 1046142m | 17.583 | ng/ul  |          |
| 22) Chrysene                | 21.082 | 228  | 1102555m | 17.022 | ng/ul  |          |
| 24) Benzo(b)fluoranthene    | 22.531 | 252  | 1186635m | 20.781 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.566 | 252  | 476687m  | 7.597  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.060 | 252  | 469284m  | 8.264  | ng/ul  |          |
| 27) Indeno(1,2,3-cd)pyrene  | 25.215 | 276  | 385268m  | 5.247  | ng/ul  |          |
| 28) Dibenzo(a,h)anthracene  | 25.219 | 278  | 127526m  | 2.172  | ng/ul  |          |
| 29) Benzo(g,h,i)perylene    | 25.849 | 276  | 56867m   | 0.898  | ng/ul  |          |
| -----                       |        |      |          |        |        |          |

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

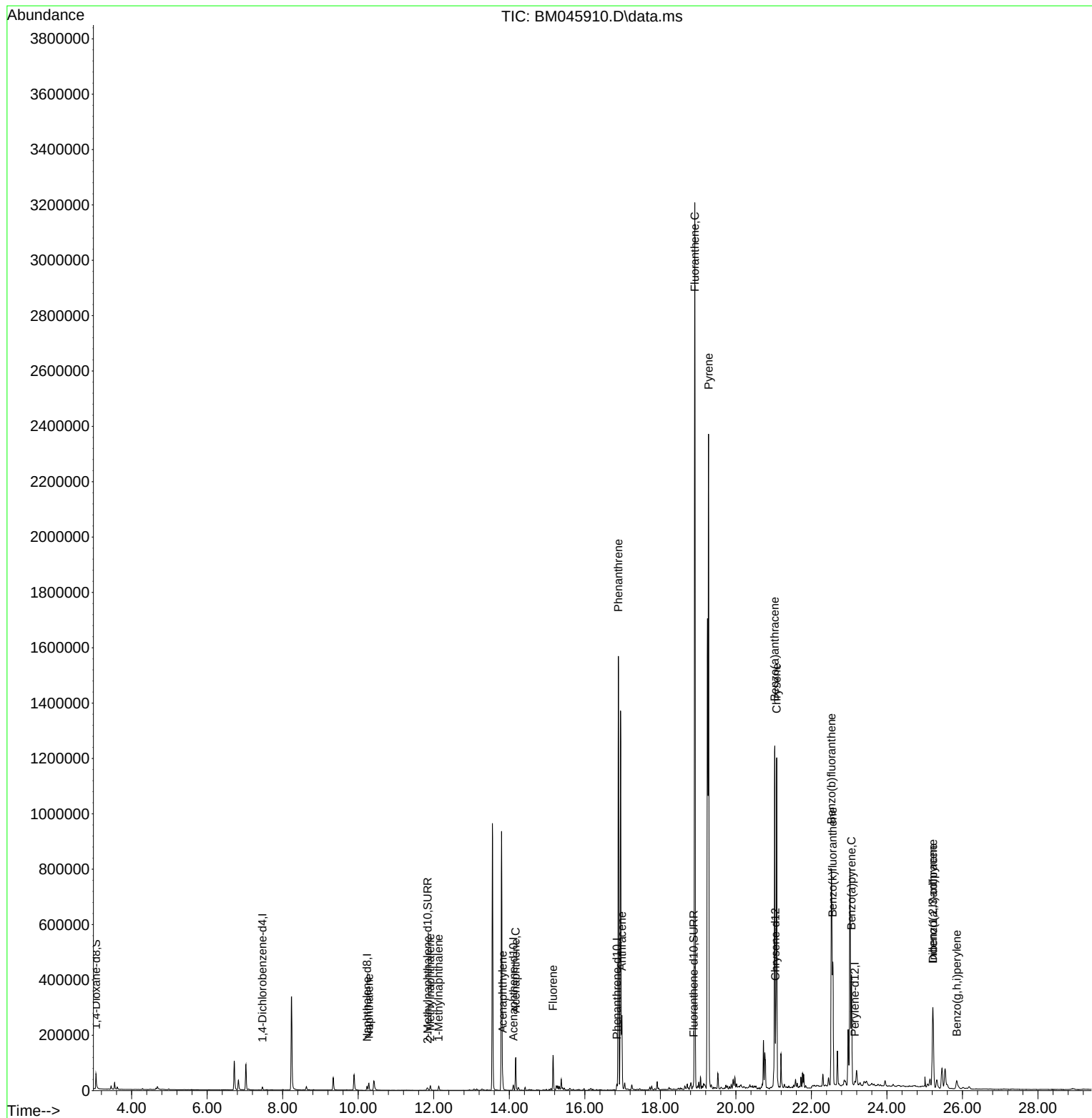
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045910.D  
Acq On : 08 Jun 2024 11:26  
Operator : MA/JU  
Sample : P2640-04  
Misc :  
ALS Vial : 38 Sample Multiplier: 1

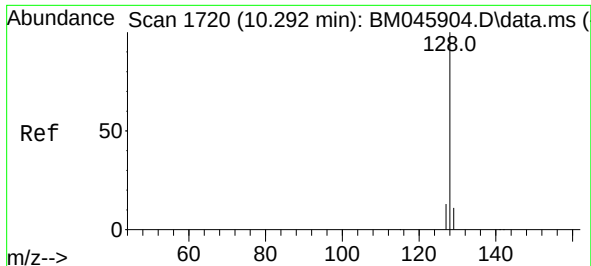
Instrument :  
BNA\_M  
ClientSampleId :  
A4C15

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024

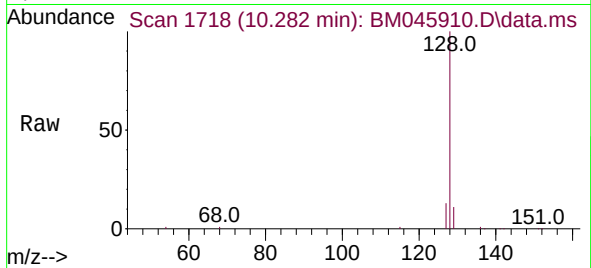
Quant Time: Jun 10 01:27:36 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 07 22:59:16 2024  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.733 ng/ul  
RT: 10.282 min Scan# 1718  
Delta R.T. -0.021 min  
Lab File: BM045910.D  
Acq: 08 Jun 2024 11:26

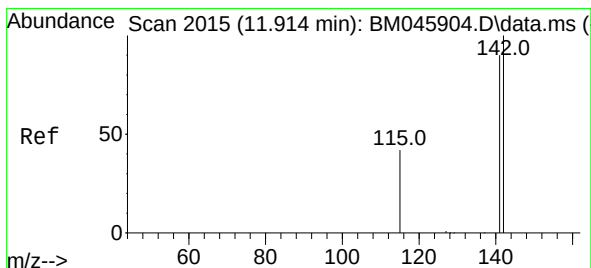
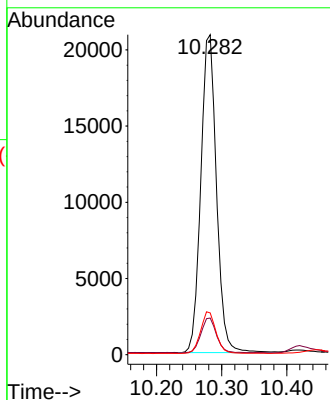
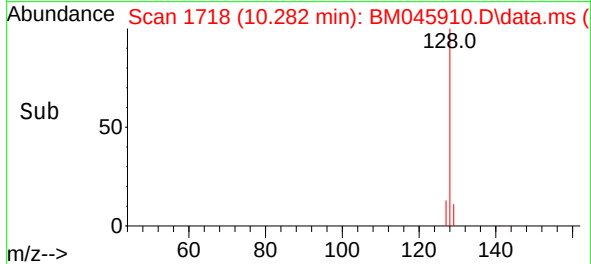
Instrument :  
BNA\_M  
ClientSampleId :  
A4C15



Tgt Ion:128 Resp: 3480  
Ion Ratio Lower Upper  
128 100  
129 11.5 9.4 14.0  
127 13.1 10.6 15.8

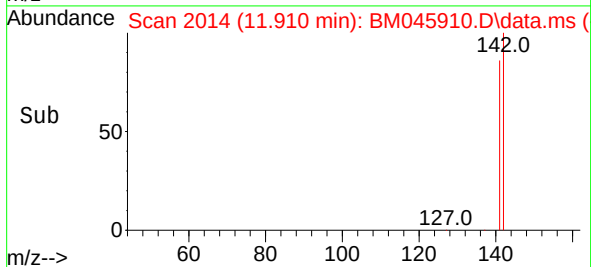
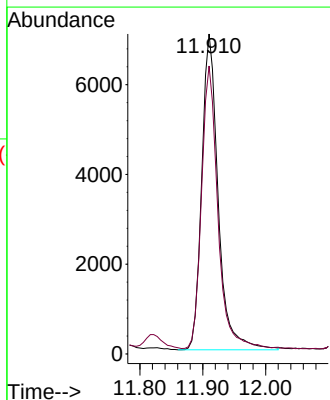
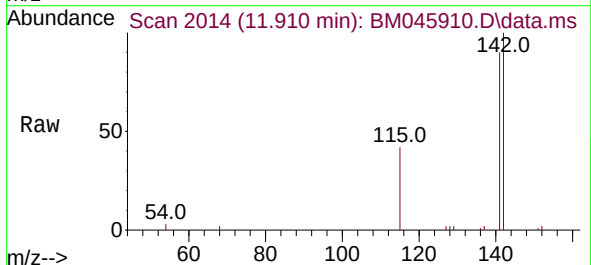
Manual Integrations  
APPROVED

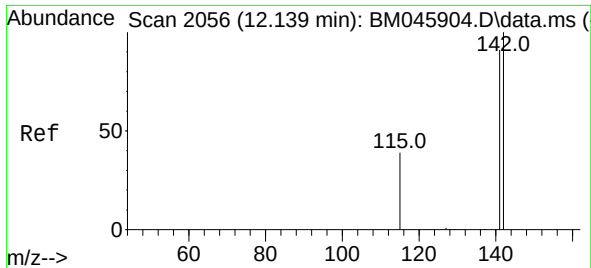
Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



#7  
2-Methylnaphthalene  
Concen: 0.423 ng/ul  
RT: 11.910 min Scan# 2014  
Delta R.T. -0.010 min  
Lab File: BM045910.D  
Acq: 08 Jun 2024 11:26

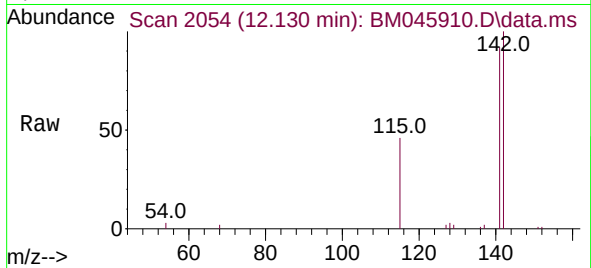
Tgt Ion:142 Resp: 12810  
Ion Ratio Lower Upper  
142 100  
141 88.6 72.2 108.4





#8  
1-Methylnaphthalene  
Concen: 0.339 ng/ul  
RT: 12.130 min Scan# 2056  
Delta R.T. -0.015 min  
Lab File: BM045910.D  
Acq: 08 Jun 2024 11:26

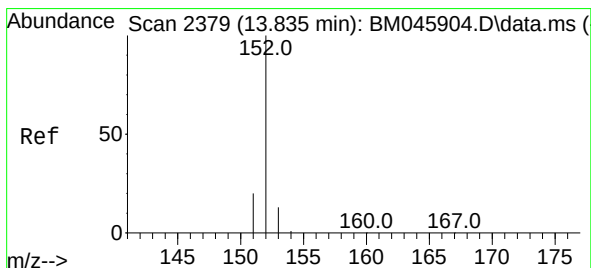
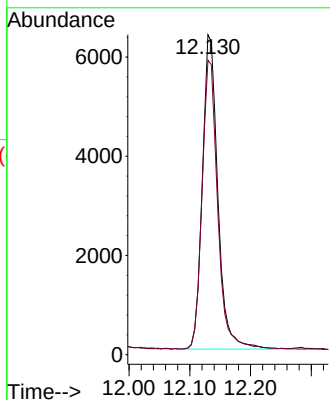
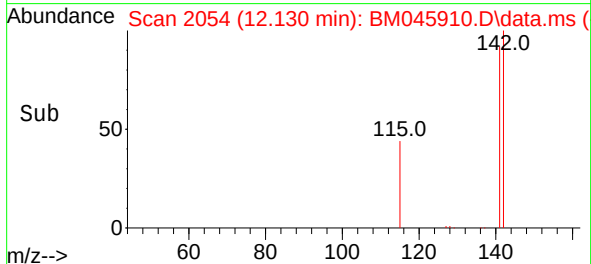
Instrument :  
BNA\_M  
ClientSampleId :  
A4C15



Tgt Ion:142 Resp: 1117  
Ion Ratio Lower Upper  
142 100  
141 92.7 73.5 110.3

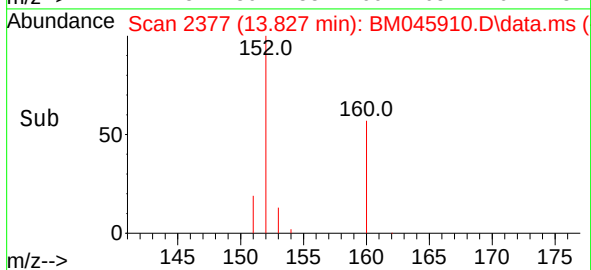
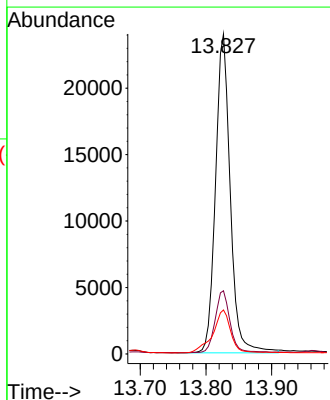
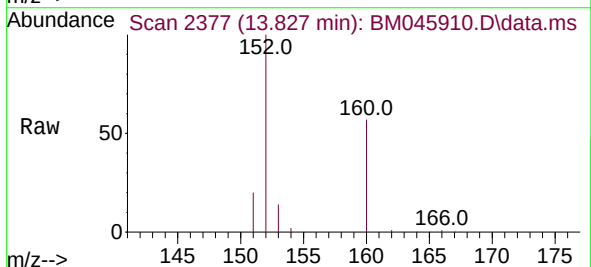
Manual Integrations  
APPROVED

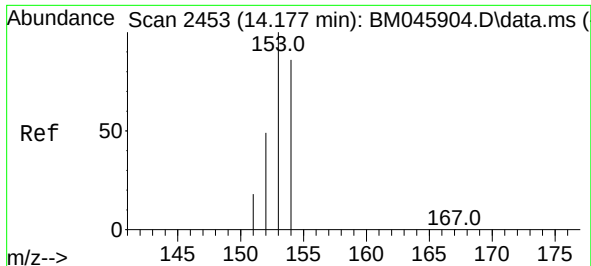
Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



#10  
Acenaphthylene  
Concen: 0.813 ng/ul  
RT: 13.827 min Scan# 2377  
Delta R.T. -0.013 min  
Lab File: BM045910.D  
Acq: 08 Jun 2024 11:26

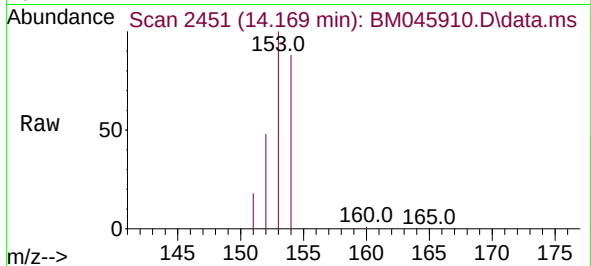
Tgt Ion:152 Resp: 37328  
Ion Ratio Lower Upper  
152 100  
151 19.7 16.4 24.6  
153 13.8 11.1 16.7





#11  
Acenaphthene  
Concen: 1.984 ng/ul  
RT: 14.169 min Scan# 2451  
Delta R.T. -0.013 min  
Lab File: BM045910.D  
Acq: 08 Jun 2024 11:26

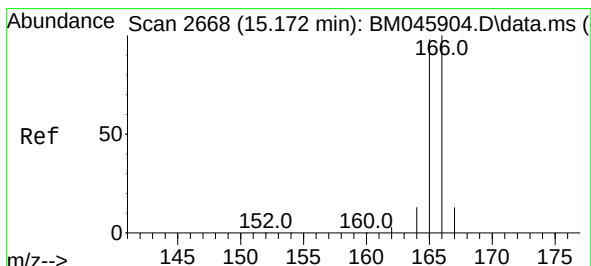
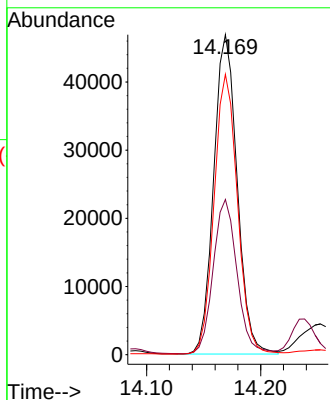
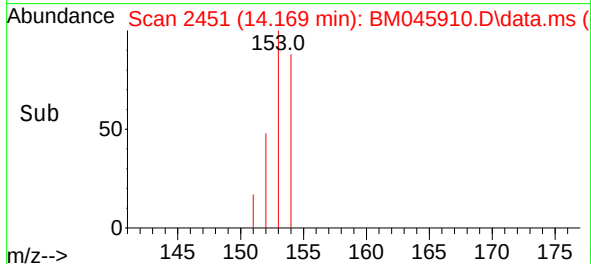
Instrument :  
BNA\_M  
ClientSampleId :  
A4C15



Tgt Ion:153 Resp: 6694  
Ion Ratio Lower Upper  
153 100  
152 48.5 39.0 58.4  
154 87.6 69.4 104.2

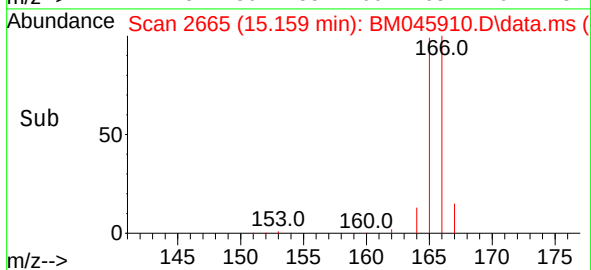
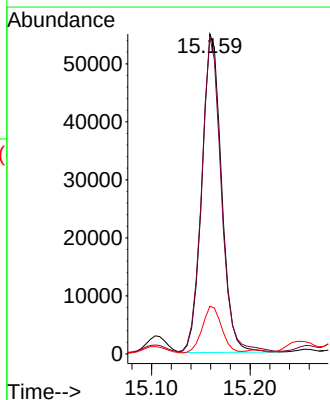
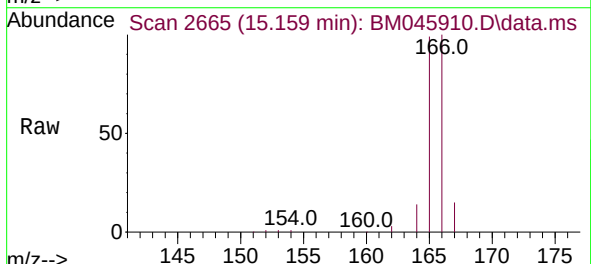
Manual Integrations  
APPROVED

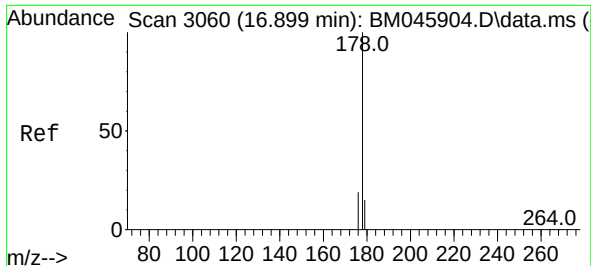
Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



#12  
Fluorene  
Concen: 2.011 ng/ul  
RT: 15.159 min Scan# 2665  
Delta R.T. -0.017 min  
Lab File: BM045910.D  
Acq: 08 Jun 2024 11:26

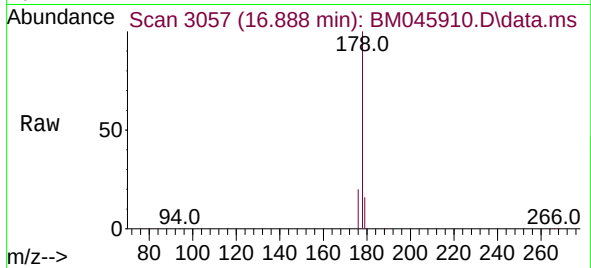
Tgt Ion:166 Resp: 75860  
Ion Ratio Lower Upper  
166 100  
165 99.1 79.7 119.5  
167 14.9 11.3 16.9





#15  
Phenanthrene  
Concen: 22.362 ng/ul m  
RT: 16.888 min Scan# 3057  
Delta R.T. -0.016 min  
Lab File: BM045910.D  
Acq: 08 Jun 2024 11:26

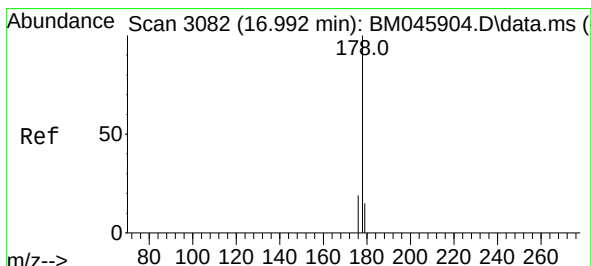
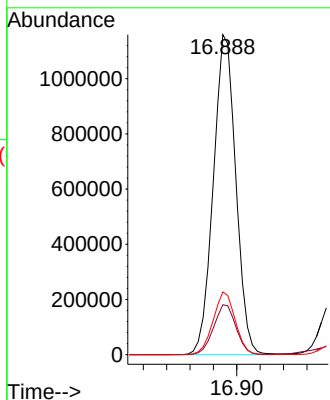
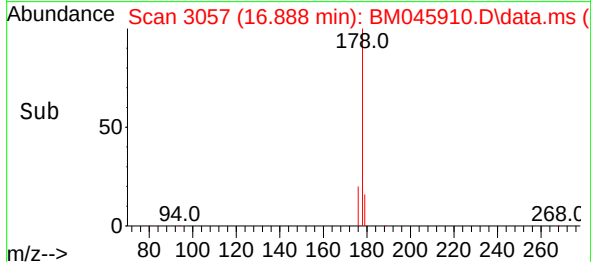
Instrument :  
BNA\_M  
ClientSampleId :  
A4C15



Tgt Ion:178 Resp: 155206  
Ion Ratio Lower Upper  
178 100  
179 15.6 12.7 19.1  
176 19.6 15.6 23.4

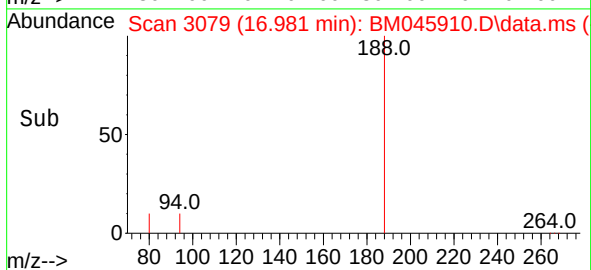
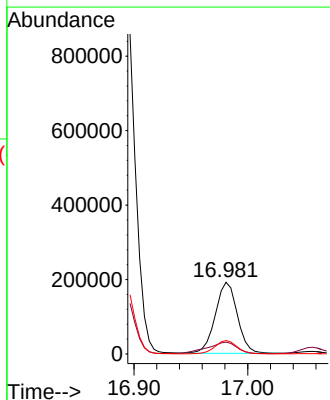
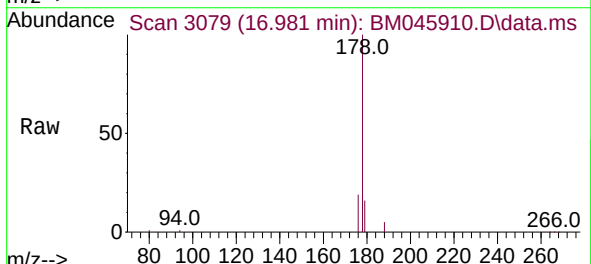
Manual Integrations  
APPROVED

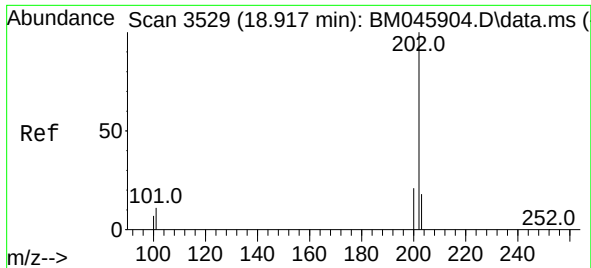
Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



#16  
Anthracene  
Concen: 4.347 ng/ul m  
RT: 16.981 min Scan# 3079  
Delta R.T. -0.016 min  
Lab File: BM045910.D  
Acq: 08 Jun 2024 11:26

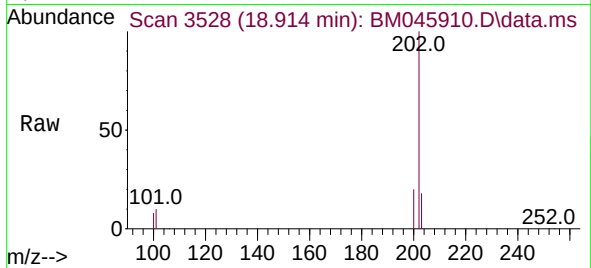
Tgt Ion:178 Resp: 257337  
Ion Ratio Lower Upper  
178 100  
179 16.5 13.1 19.7  
176 18.7 15.5 23.3





#19  
Fluoranthene  
Concen: 41.243 ng/ul m  
RT: 18.914 min Scan# 3528  
Delta R.T. -0.008 min  
Lab File: BM045910.D  
Acq: 08 Jun 2024 11:26

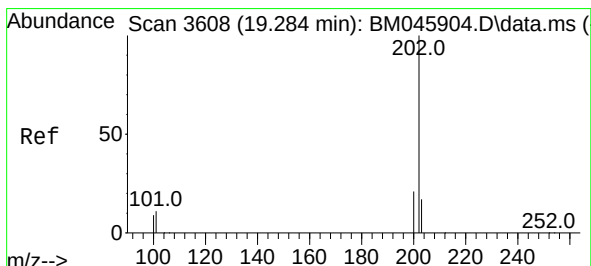
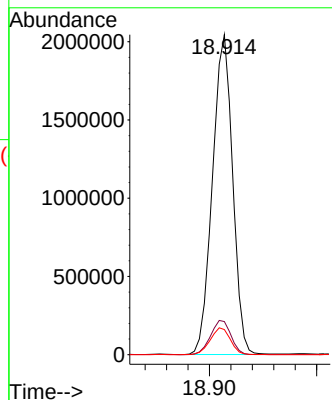
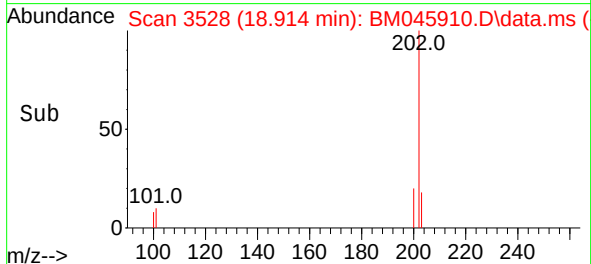
Instrument :  
BNA\_M  
ClientSampleId :  
A4C15



Tgt Ion:202 Resp: 2665719  
Ion Ratio Lower Upper  
202 100  
101 10.3 9.0 13.6  
100 7.9 7.0 10.6

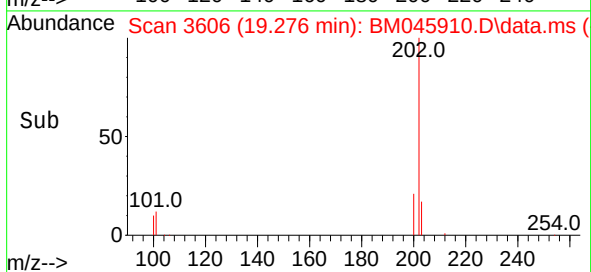
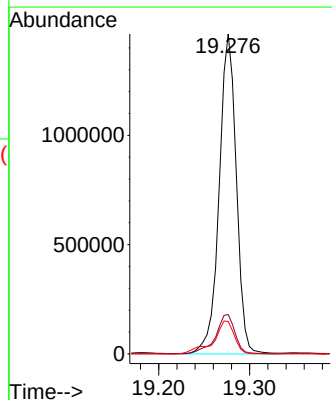
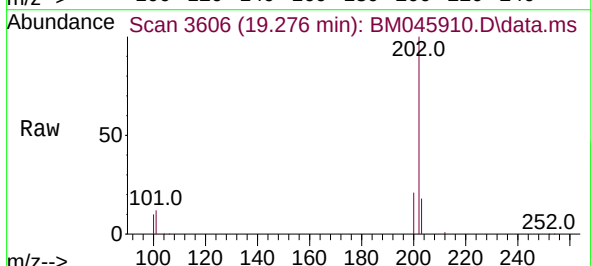
Manual Integrations  
APPROVED

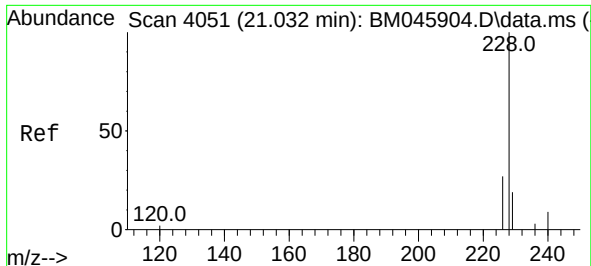
Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



#20  
Pyrene  
Concen: 28.531 ng/ul m  
RT: 19.276 min Scan# 3606  
Delta R.T. -0.008 min  
Lab File: BM045910.D  
Acq: 08 Jun 2024 11:26

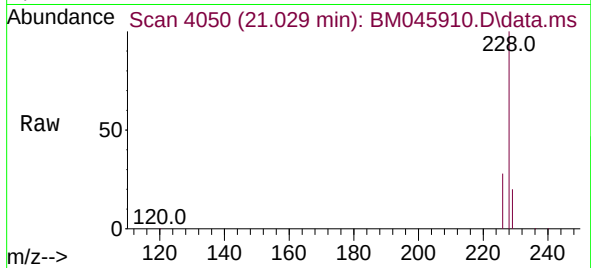
Tgt Ion:202 Resp: 1923704  
Ion Ratio Lower Upper  
202 100  
101 12.3 10.6 16.0  
100 10.2 9.1 13.7





#21  
Benzo(a)anthracene  
Concen: 17.583 ng/ul m  
RT: 21.029 min Scan# 4050  
Delta R.T. -0.006 min  
Lab File: BM045910.D  
Acq: 08 Jun 2024 11:26

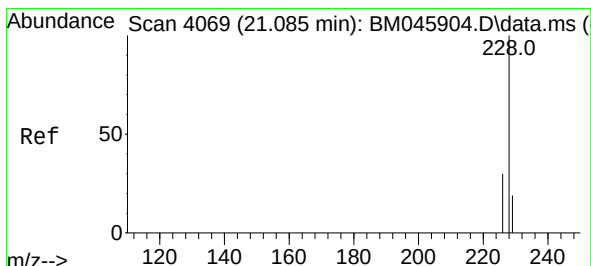
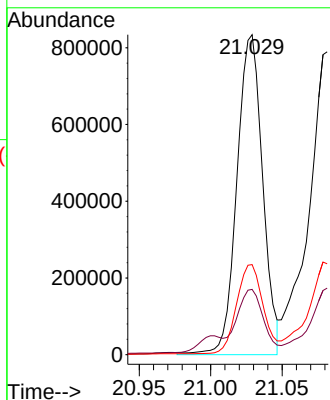
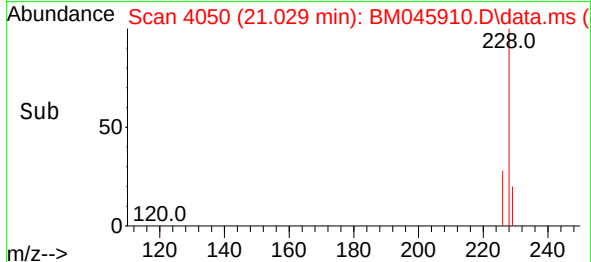
Instrument :  
BNA\_M  
ClientSampleId :  
A4C15



Tgt Ion:228 Resp: 104614  
Ion Ratio Lower Upper  
228 100  
229 20.4 15.7 23.5  
226 28.2 22.0 33.0

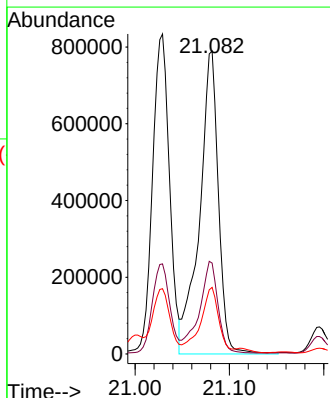
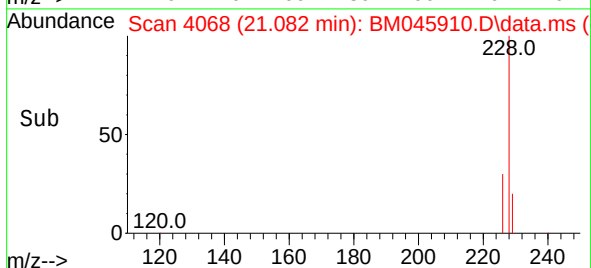
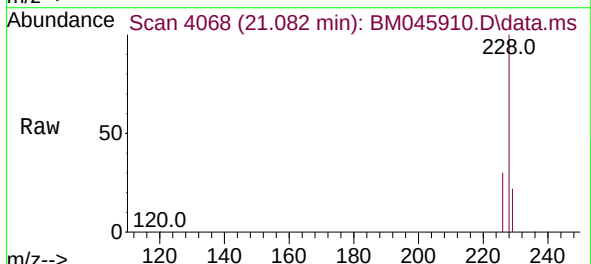
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024

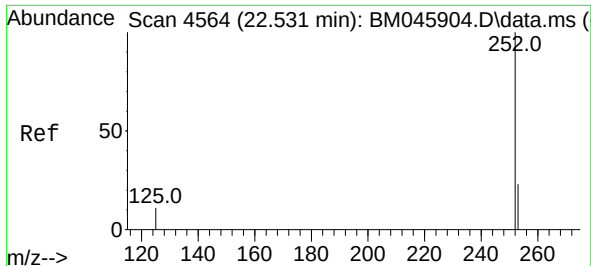


#22  
Chrysene  
Concen: 17.022 ng/ul m  
RT: 21.082 min Scan# 4068  
Delta R.T. -0.006 min  
Lab File: BM045910.D  
Acq: 08 Jun 2024 11:26

Tgt Ion:228 Resp: 1102555  
Ion Ratio Lower Upper  
228 100  
226 30.0 24.5 36.7  
229 22.0 16.2 24.2

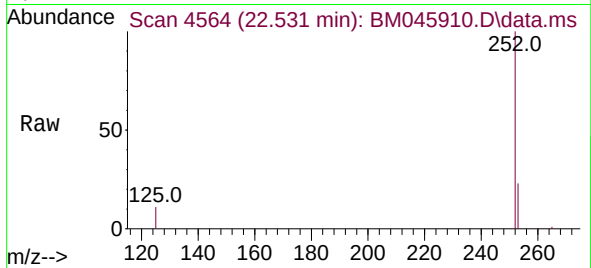






#24  
Benzo(b)fluoranthene  
Concen: 20.781 ng/ul m  
RT: 22.531 min Scan# 4564  
Delta R.T. -0.006 min  
Lab File: BM045910.D  
Acq: 08 Jun 2024 11:26

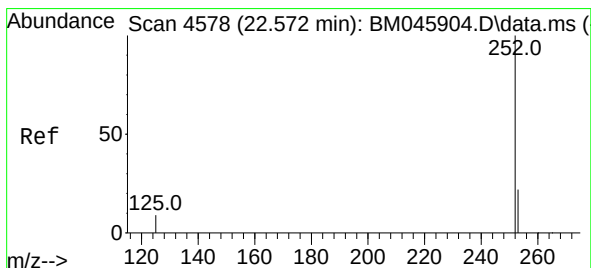
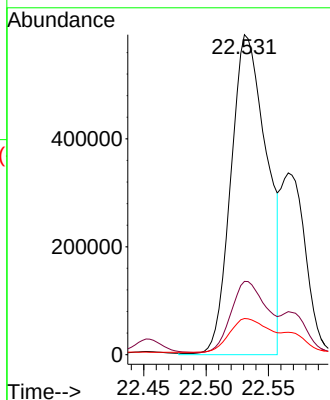
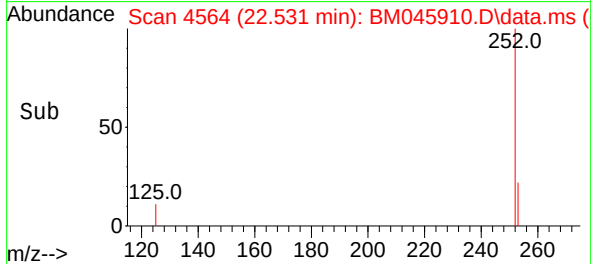
Instrument :  
BNA\_M  
ClientSampleId :  
A4C15



Tgt Ion:252 Resp: 118663  
Ion Ratio Lower Upper  
252 100  
253 22.9 0.0 63.6  
125 11.3 0.0 35.8

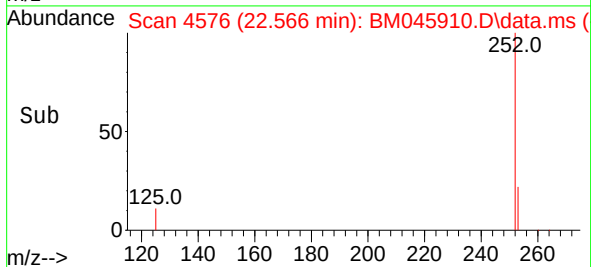
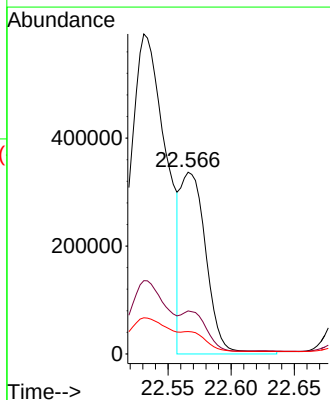
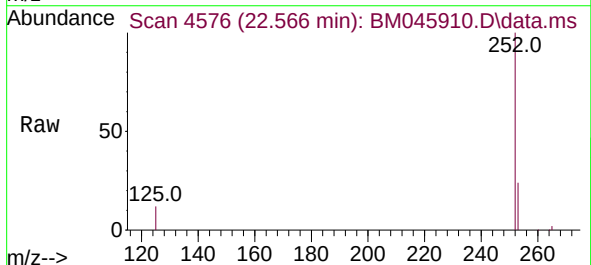
Manual Integrations  
APPROVED

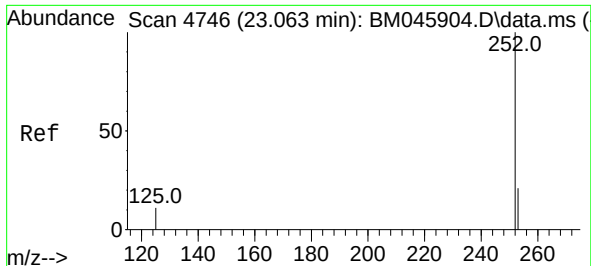
Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



#25  
Benzo(k)fluoranthene  
Concen: 7.597 ng/ul m  
RT: 22.566 min Scan# 4576  
Delta R.T. -0.015 min  
Lab File: BM045910.D  
Acq: 08 Jun 2024 11:26

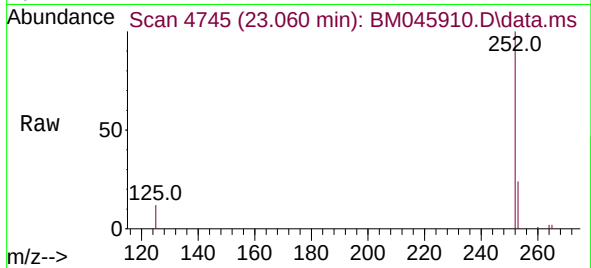
Tgt Ion:252 Resp: 476687  
Ion Ratio Lower Upper  
252 100  
253 23.7 25.0 37.6#  
125 12.3 14.2 21.2#





#26  
Benzo(a)pyrene  
Concen: 8.264 ng/ul m  
RT: 23.060 min Scan# 4746  
Delta R.T. -0.012 min  
Lab File: BM045910.D  
Acq: 08 Jun 2024 11:26

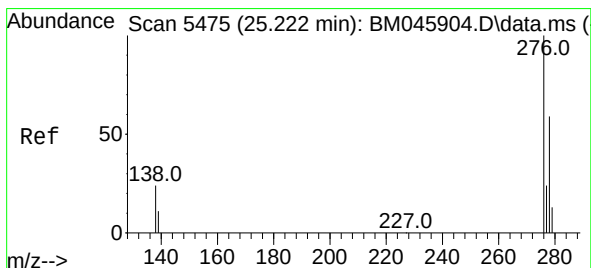
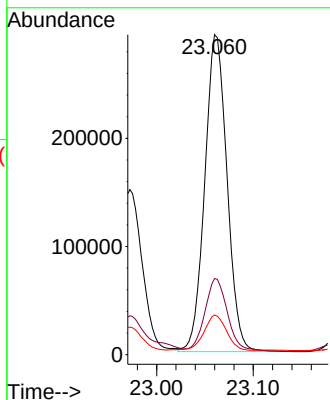
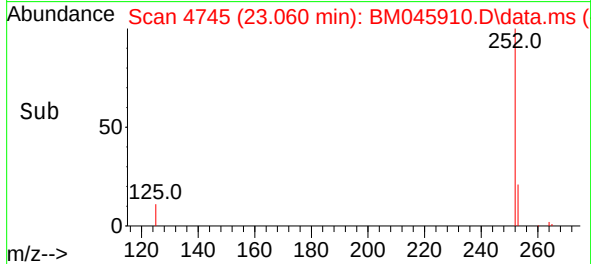
Instrument :  
BNA\_M  
ClientSampleId :  
A4C15



Tgt Ion:252 Resp: 469284  
Ion Ratio Lower Upper  
252 100  
253 23.8 28.8 43.2#  
125 12.4 17.3 25.9#

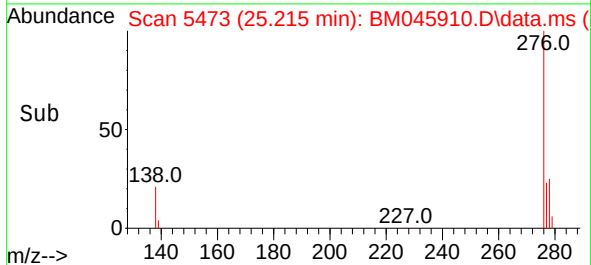
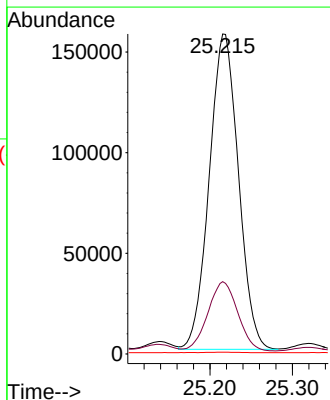
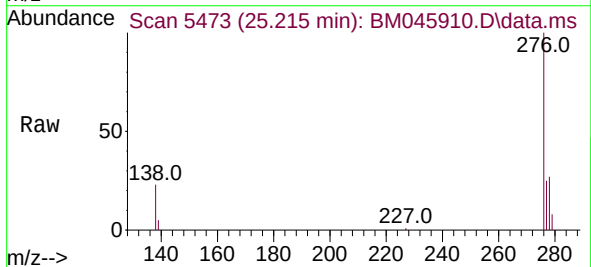
Manual Integrations  
APPROVED

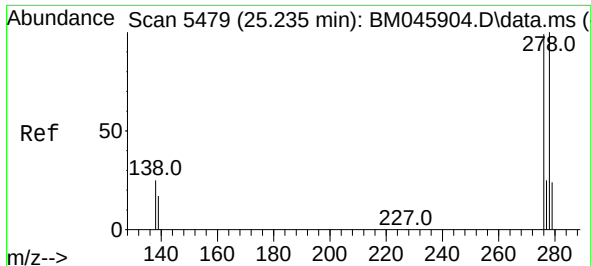
Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 5.247 ng/ul m  
RT: 25.215 min Scan# 5473  
Delta R.T. -0.017 min  
Lab File: BM045910.D  
Acq: 08 Jun 2024 11:26

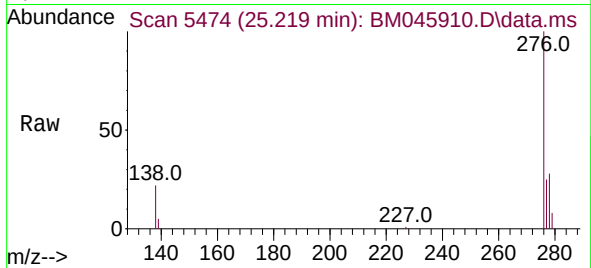
Tgt Ion:276 Resp: 385268  
Ion Ratio Lower Upper  
276 100  
138 1.5 20.7 31.1#  
227 0.0 0.2 0.2#





#28  
Dibenzo(a,h)anthracene  
Concen: 2.172 ng/ul m  
RT: 25.219 min Scan# 5479  
Delta R.T. -0.030 min  
Lab File: BM045910.D  
Acq: 08 Jun 2024 11:26

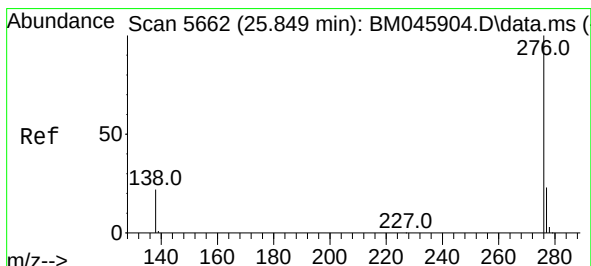
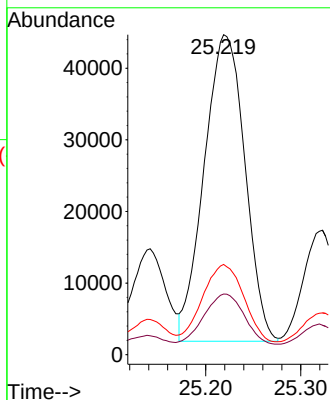
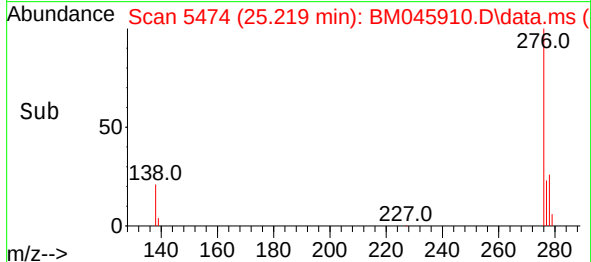
Instrument :  
BNA\_M  
ClientSampleId :  
A4C15



Tgt Ion:278 Resp: 127520  
Ion Ratio Lower Upper  
278 100  
139 19.0 16.6 25.0  
279 28.2 24.6 37.0

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



#29  
Benzo(g,h,i)perylene  
Concen: 0.898 ng/ul m  
RT: 25.849 min Scan# 5662  
Delta R.T. -0.013 min  
Lab File: BM045910.D  
Acq: 08 Jun 2024 11:26

Tgt Ion:276 Resp: 56867  
Ion Ratio Lower Upper  
276 100  
138 26.0 21.0 31.4  
277 27.6 20.5 30.7

