

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM061824\  
 Data File : BM046054.D  
 Acq On : 18 Jun 2024 16:58  
 Operator : MA/JU  
 Sample : P2695-02  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4BJ2

Manual Integrations  
 APPROVED

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

Quant Time: Jun 18 17:32:57 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   | 7.434  | 152  | 3338     | 0.400 | ng/ul  | -0.03    |
| 4) Naphthalene-d8           | 10.211 | 136  | 8963     | 0.400 | ng/ul  | #-0.04   |
| 9) Acenaphthene-d10         | 14.086 | 164  | 4684     | 0.400 | ng/ul  | -0.03    |
| 13) Phenanthrene-d10        | 16.829 | 188  | 9936m    | 0.400 | ng/ul  | -0.03    |
| 17) Chrysene-d12            | 21.023 | 240  | 8698m    | 0.400 | ng/ul  | -0.02    |
| 23) Perylene-d12            | 23.121 | 264  | 10410m   | 0.400 | ng/ul  | -0.02    |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.037  | 96   | 17836    | 3.895 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.838 | 152  | 3358     | 0.279 | ng/ul  | -0.03    |
| 18) Fluoranthene-d10        | 18.858 | 212  | 7952     | 0.305 | ng/ul  | -0.03    |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       |        | Qvalue   |
| 5) Naphthalene              | 10.255 | 128  | 3237     | 0.130 | ng/ul  | 99       |
| 7) 2-Methylnaphthalene      | 11.910 | 142  | 820      | 0.058 | ng/ul  | 98       |
| 8) 1-Methylnaphthalene      | 12.124 | 142  | 642      | 0.042 | ng/ul  | 98       |
| 10) Acenaphthylene          | 13.803 | 152  | 4916     | 0.221 | ng/ul  | 98       |
| 11) Acenaphthene            | 14.146 | 153  | 1898     | 0.118 | ng/ul  | 98       |
| 12) Fluorene                | 15.140 | 166  | 2252     | 0.131 | ng/ul# | 97       |
| 14) Pentachlorophenol       | 16.533 | 266  | 122      | 0.041 | ng/ul  | 94       |
| 15) Phenanthrene            | 16.867 | 178  | 57300m   | 2.053 | ng/ul  |          |
| 16) Anthracene              | 16.960 | 178  | 10402m   | 0.500 | ng/ul  |          |
| 19) Fluoranthene            | 18.890 | 202  | 144460   | 3.836 | ng/ul  | 96       |
| 20) Pyrene                  | 19.253 | 202  | 99937    | 2.454 | ng/ul  | 96       |
| 21) Benzo(a)anthracene      | 21.008 | 228  | 65113    | 1.938 | ng/ul  | 99       |
| 22) Chrysene                | 21.061 | 228  | 77451    | 1.806 | ng/ul  | 98       |
| 24) Benzo(b)fluoranthene    | 22.504 | 252  | 118425m  | 3.158 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.539 | 252  | 46134m   | 1.035 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.031 | 252  | 42613    | 1.226 | ng/ul# | 80       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.175 | 276  | 50940    | 0.896 | ng/ul# | 91       |
| 28) Dibenzo(a,h)anthracene  | 25.178 | 278  | 15548    | 0.367 | ng/ul  | 97       |
| 29) Benzo(g,h,i)perylene    | 25.799 | 276  | 7673     | 0.157 | ng/ul# | 86       |

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

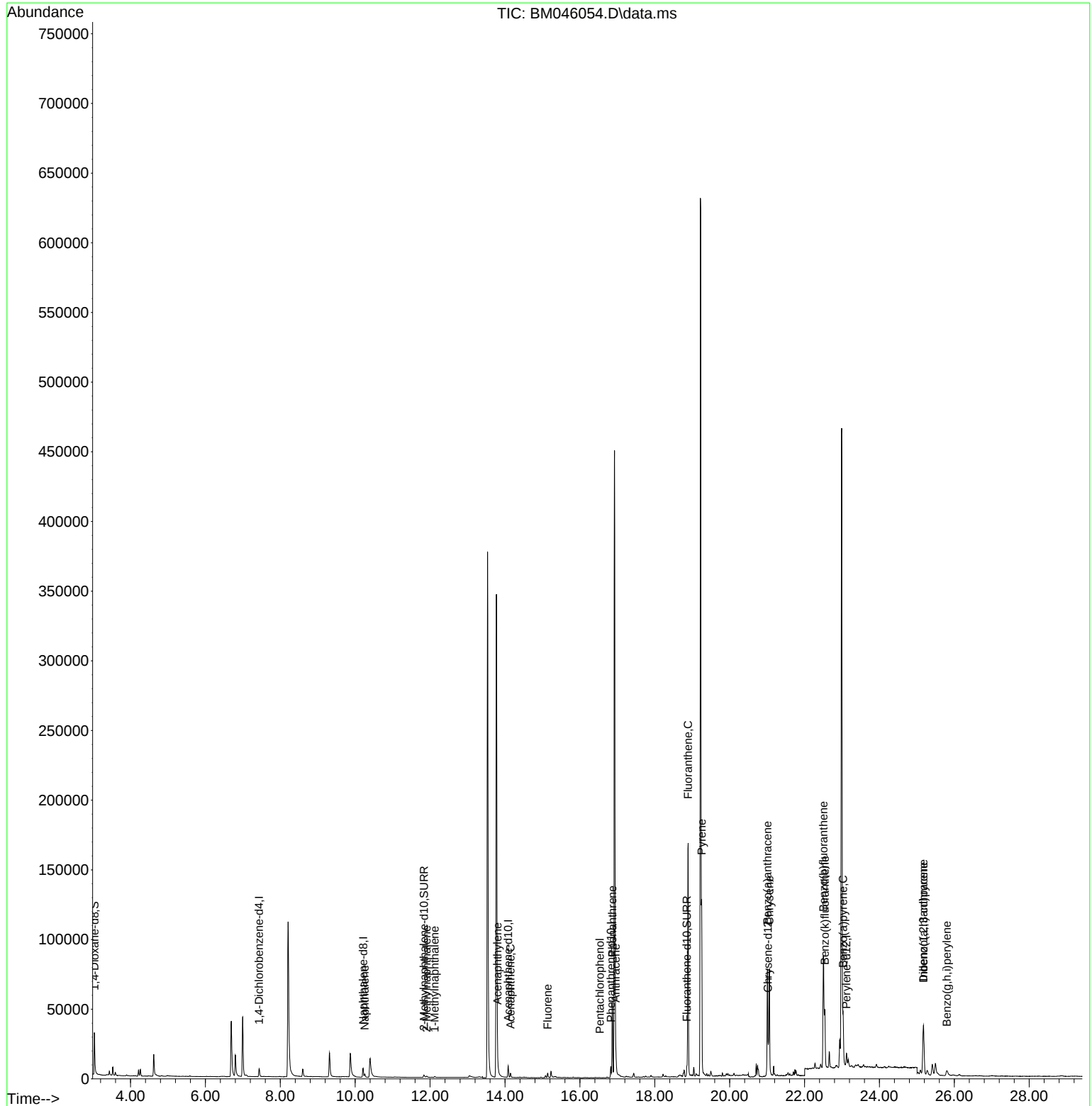
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM061824\  
Data File : BM046054.D  
Acq On : 18 Jun 2024 16:58  
Operator : MA/JU  
Sample : P2695-02  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

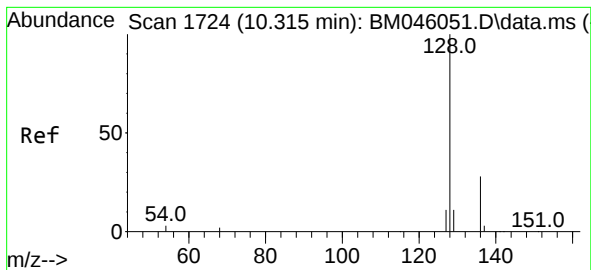
Instrument :  
BNA\_M  
ClientSampleId :  
A4BJ2

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Supervised By :mohammad ahmed 06/21/2024

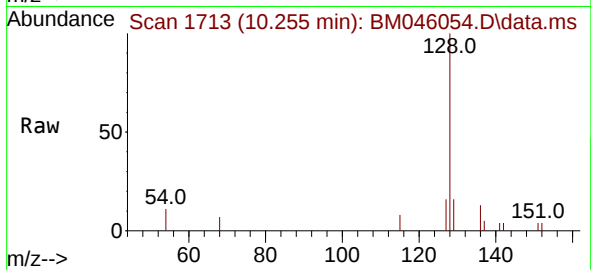
Quant Time: Jun 18 17:32:57 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM061824.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jun 18 13:58:29 2024  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.130 ng/ul  
RT: 10.255 min Scan# 1724  
Delta R.T. -0.048 min  
Lab File: BM046054.D  
Acq: 18 Jun 2024 16:58

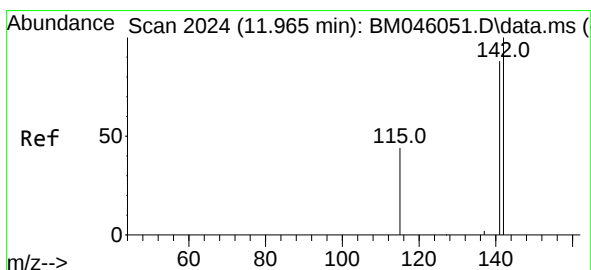
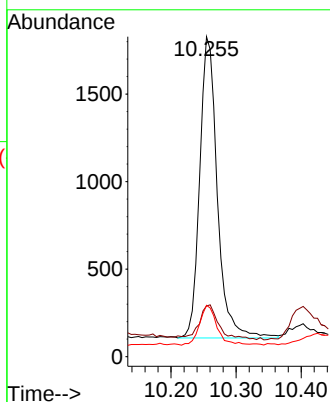
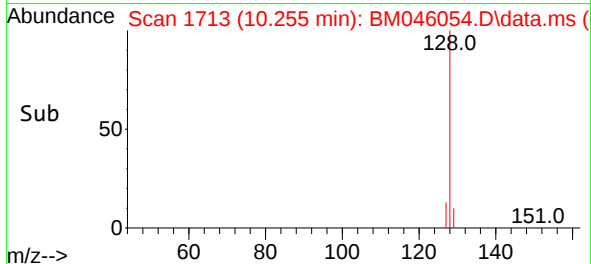
Instrument :  
BNA\_M  
ClientSampleId :  
A4BJ2



Tgt Ion:128 Resp: 323  
Ion Ratio Lower Upper  
128 100  
129 15.9 11.8 17.6  
127 16.0 12.8 19.2

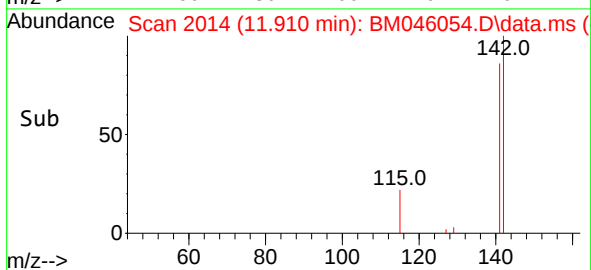
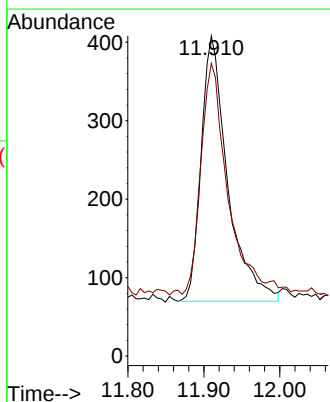
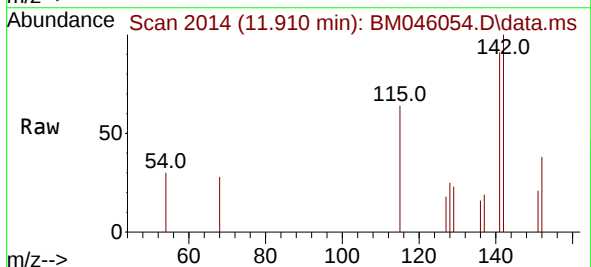
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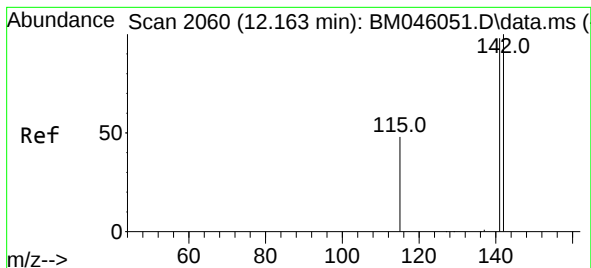
Reviewed By :Jagrut Upadhyay 06/19/2024  
Supervised By :mohammad ahmed 06/21/2024



#7  
2-Methylnaphthalene  
Concen: 0.058 ng/ul  
RT: 11.910 min Scan# 2014  
Delta R.T. -0.037 min  
Lab File: BM046054.D  
Acq: 18 Jun 2024 16:58

Tgt Ion:142 Resp: 820  
Ion Ratio Lower Upper  
142 100  
141 90.9 74.6 111.8





#8

1-Methylnaphthalene

Concen: 0.042 ng/ul

RT: 12.124 min Scan# 2060

Delta R.T. -0.026 min

Lab File: BM046054.D

Acq: 18 Jun 2024 16:58

Instrument :

BNA\_M

ClientSampleId :

A4BJ2

Tgt Ion:142 Resp: 642

Ion Ratio Lower Upper

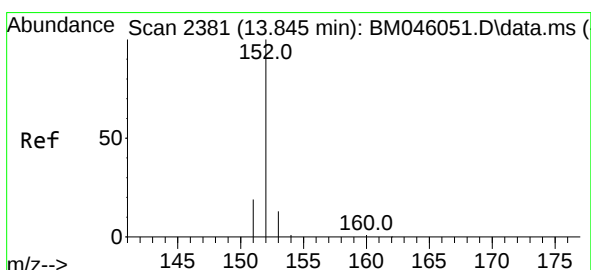
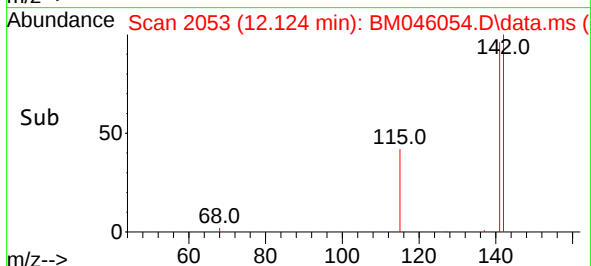
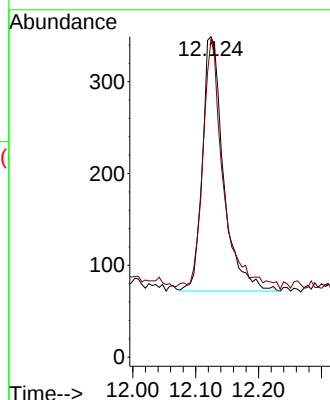
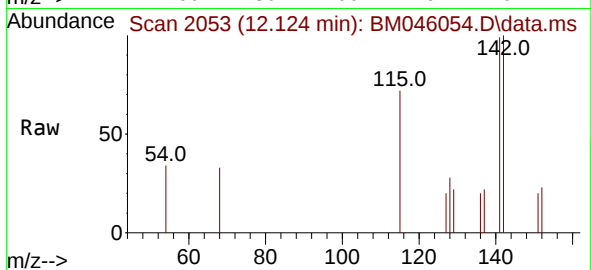
142 100

141 96.3 75.2 112.8

Manual Integrations

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



#10

Acenaphthylene

Concen: 0.221 ng/ul

RT: 13.803 min Scan# 2372

Delta R.T. -0.031 min

Lab File: BM046054.D

Acq: 18 Jun 2024 16:58

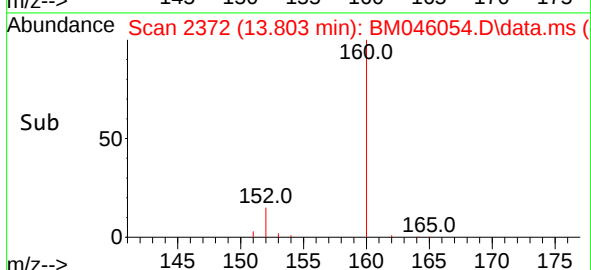
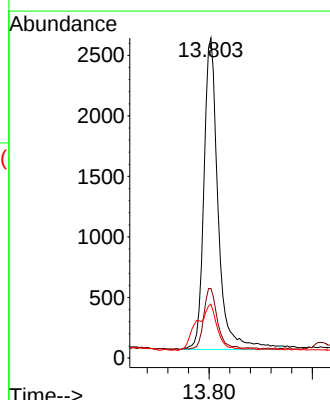
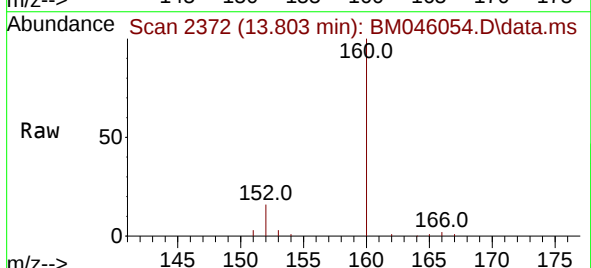
Tgt Ion:152 Resp: 4916

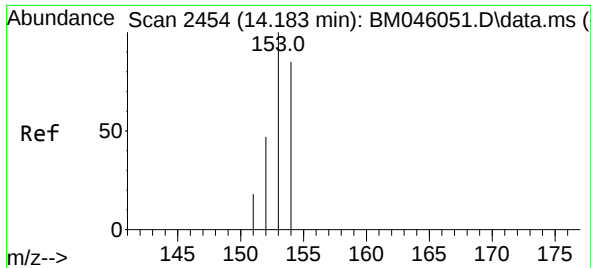
Ion Ratio Lower Upper

152 100

151 21.8 17.4 26.2

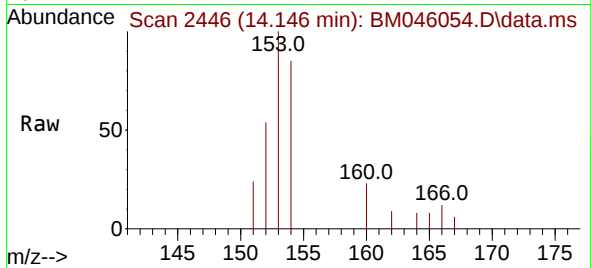
153 16.8 11.8 17.8





#11  
Acenaphthene  
Concen: 0.118 ng/ul  
RT: 14.146 min Scan# 2446  
Delta R.T. -0.027 min  
Lab File: BM046054.D  
Acq: 18 Jun 2024 16:58

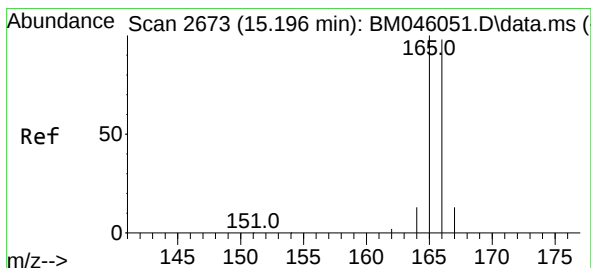
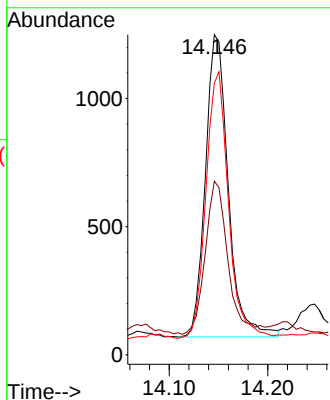
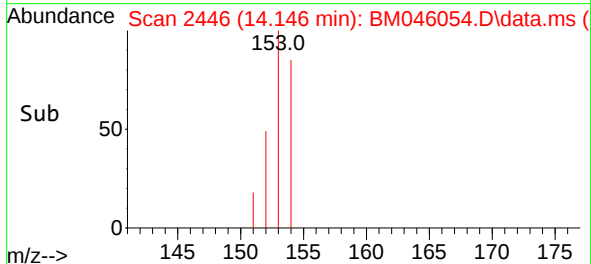
Instrument :  
BNA\_M  
ClientSampleId :  
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Tgt Ion:153 Resp: 1898  
Ion Ratio Lower Upper  
153 100  
152 54.2 41.3 61.9  
154 84.9 68.2 102.4

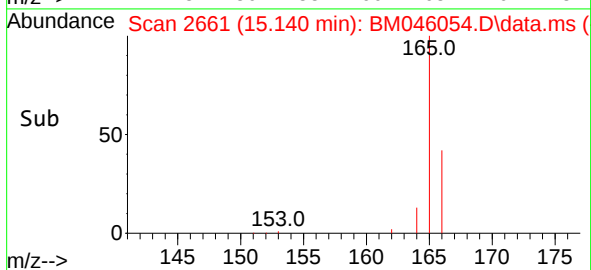
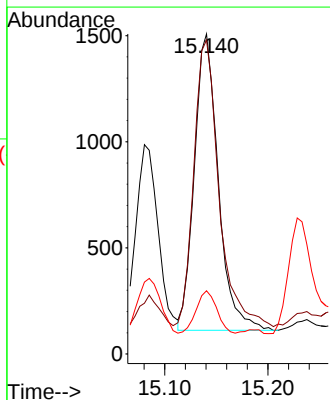
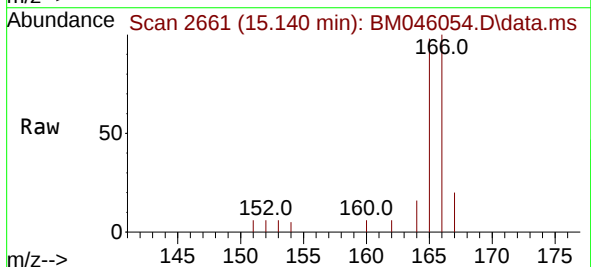
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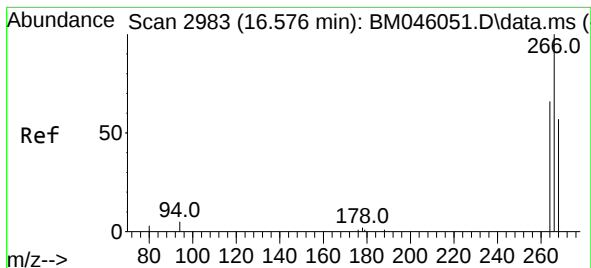
Reviewed By :Jagrut Upadhyay 06/19/2024  
Supervised By :mohammad ahmed 06/21/2024



#12  
Fluorene  
Concen: 0.131 ng/ul  
RT: 15.140 min Scan# 2661  
Delta R.T. -0.040 min  
Lab File: BM046054.D  
Acq: 18 Jun 2024 16:58

Tgt Ion:166 Resp: 2252  
Ion Ratio Lower Upper  
166 100  
165 98.1 80.4 120.6  
167 19.8 12.4 18.6#





#14

Pentachlorophenol

Concen: 0.041 ng/ul

RT: 16.533 min Scan# 2983

Delta R.T. -0.033 min

Lab File: BM046054.D

Acq: 18 Jun 2024 16:58

Instrument :

BNA\_M

ClientSampleId :

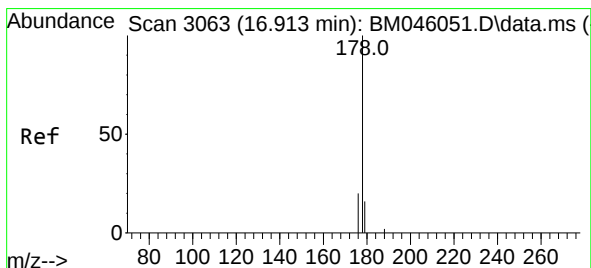
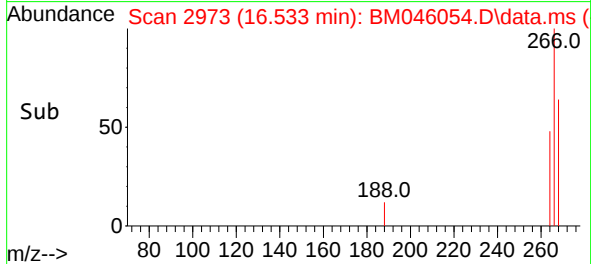
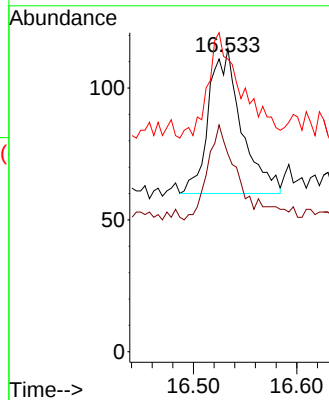
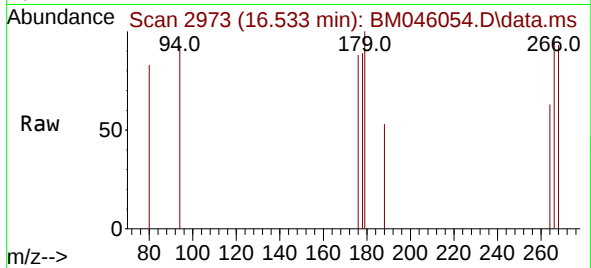
A4BJ2

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 266   | Resp: | 12   |
| Ion Ratio | Lower | Upper |      |
| 266       | 100   |       |      |
| 264       | 63.1  | 50.9  | 76.3 |
| 268       | 73.8  | 52.3  | 78.5 |

Manual Integrations

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



#15

Phenanthrene

Concen: 2.053 ng/ul m

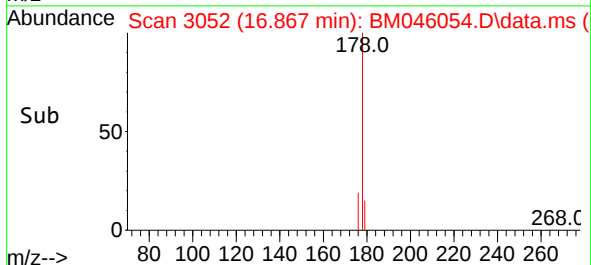
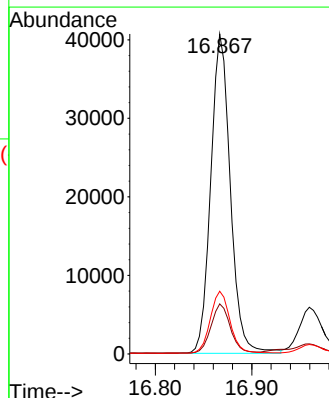
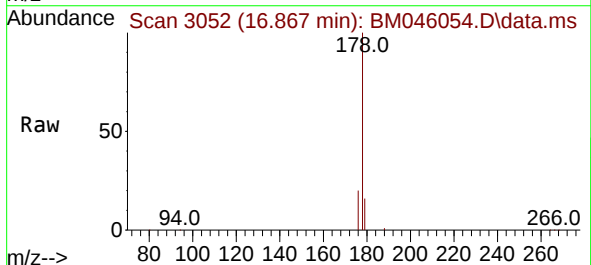
RT: 16.867 min Scan# 3052

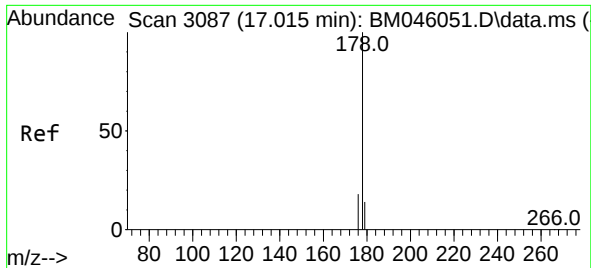
Delta R.T. -0.037 min

Lab File: BM046054.D

Acq: 18 Jun 2024 16:58

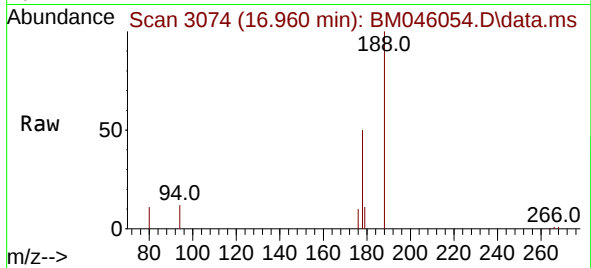
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 57300 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 15.7  | 14.2  | 21.2  |
| 176       | 19.6  | 17.1  | 25.7  |





#16  
 Anthracene  
 Concen: 0.500 ng/ul m  
 RT: 16.960 min Scan# 3087  
 Delta R.T. -0.045 min  
 Lab File: BM046054.D  
 Acq: 18 Jun 2024 16:58

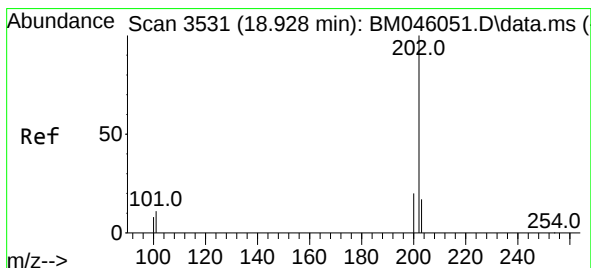
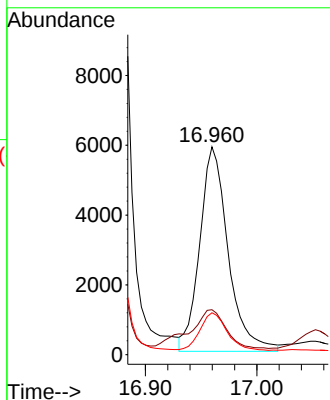
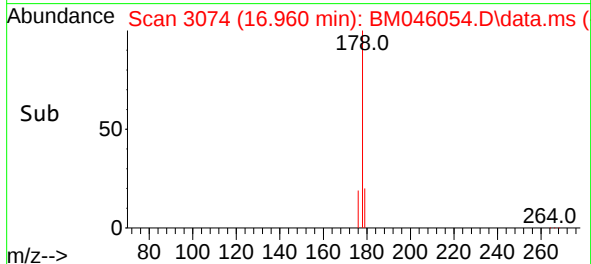
Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4BJ2



Tgt Ion:178 Resp: 1040  
 Ion Ratio Lower Upper  
 178 100  
 179 21.6 14.9 22.3  
 176 20.2 17.0 25.4

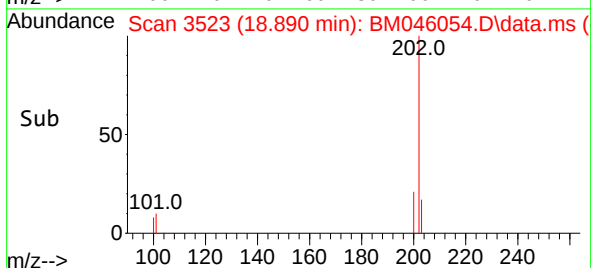
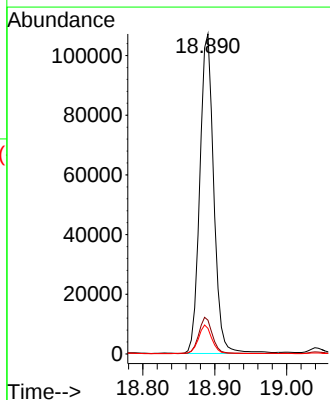
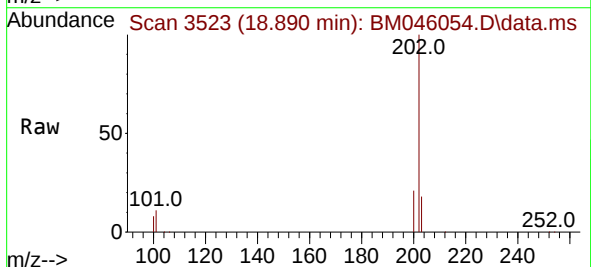
Manual Integrations  
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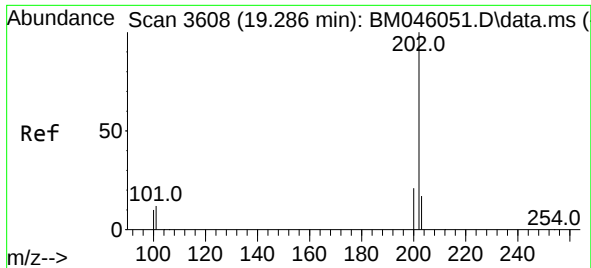
Reviewed By :Jagrut Upadhyay 06/19/2024  
 Supervised By :mohammad ahmed 06/21/2024



#19  
 Fluoranthene  
 Concen: 3.836 ng/ul  
 RT: 18.890 min Scan# 3523  
 Delta R.T. -0.027 min  
 Lab File: BM046054.D  
 Acq: 18 Jun 2024 16:58

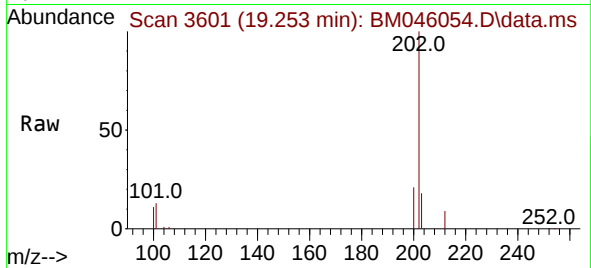
Tgt Ion:202 Resp: 144460  
 Ion Ratio Lower Upper  
 202 100  
 101 10.5 9.6 14.4  
 100 8.0 7.6 11.4





#20  
Pyrene  
Concen: 2.454 ng/ul  
RT: 19.253 min Scan# 30  
Delta R.T. -0.022 min  
Lab File: BM046054.D  
Acq: 18 Jun 2024 16:58

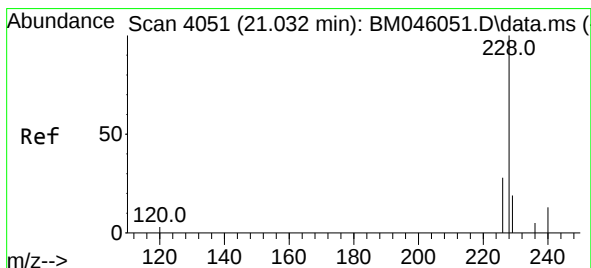
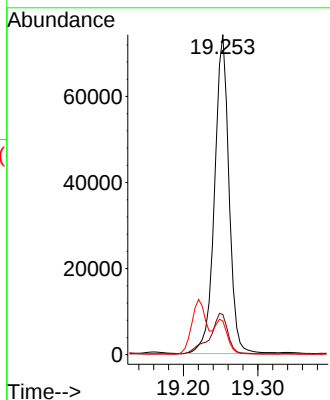
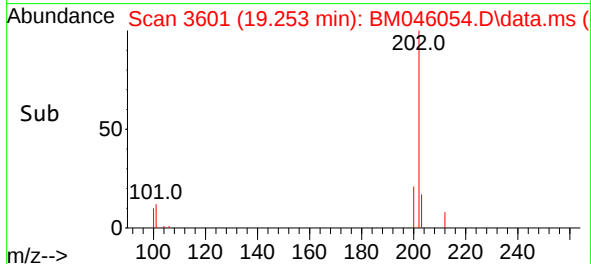
Instrument :  
BNA\_M  
ClientSampleId :  
A4BJ2



Tgt Ion:202 Resp: 9993  
Ion Ratio Lower Upper  
202 100  
101 12.5 11.3 16.9  
100 10.5 9.8 14.6

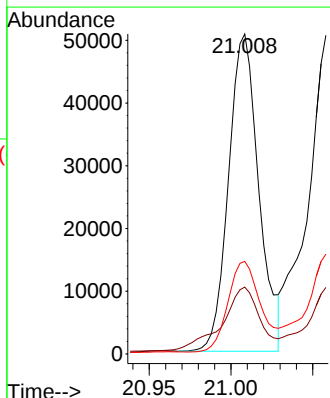
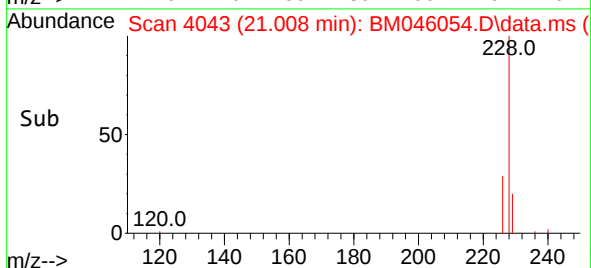
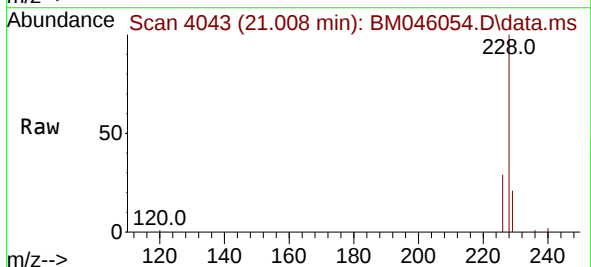
Manual Integrations  
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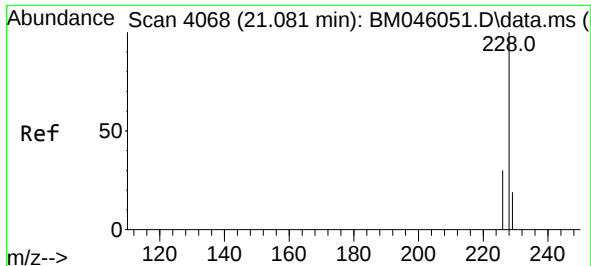
Reviewed By :Jagrut Upadhyay 06/19/2024  
Supervised By :mohammad ahmed 06/21/2024



#21  
Benzo(a)anthracene  
Concen: 1.938 ng/ul  
RT: 21.008 min Scan# 4043  
Delta R.T. -0.021 min  
Lab File: BM046054.D  
Acq: 18 Jun 2024 16:58

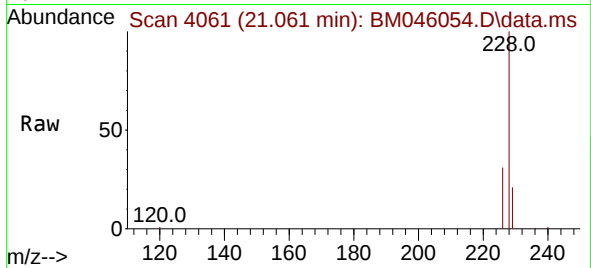
Tgt Ion:228 Resp: 65113  
Ion Ratio Lower Upper  
228 100  
229 20.9 16.4 24.6  
226 28.9 23.4 35.2





#22  
Chrysene  
Concen: 1.806 ng/ul  
RT: 21.061 min Scan# 4061  
Delta R.T. -0.015 min  
Lab File: BM046054.D  
Acq: 18 Jun 2024 16:58

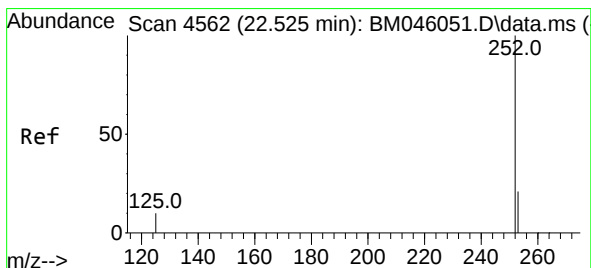
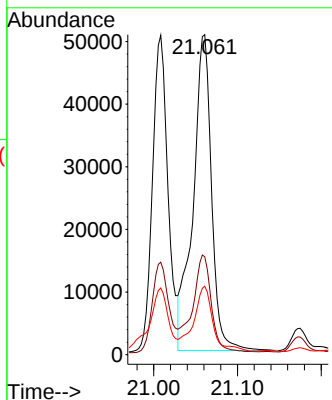
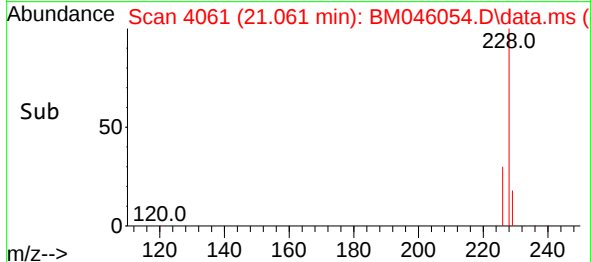
Instrument :  
BNA\_M  
ClientSampleId :  
A4BJ2



Tgt Ion:228 Resp: 7745  
Ion Ratio Lower Upper  
228 100  
226 30.6 25.2 37.8  
229 21.4 16.3 24.5

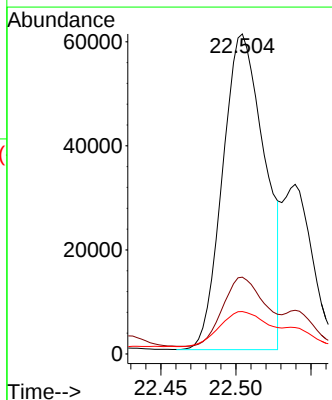
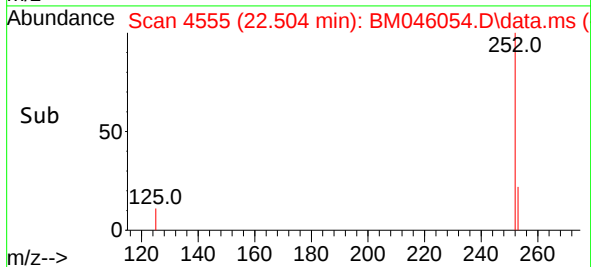
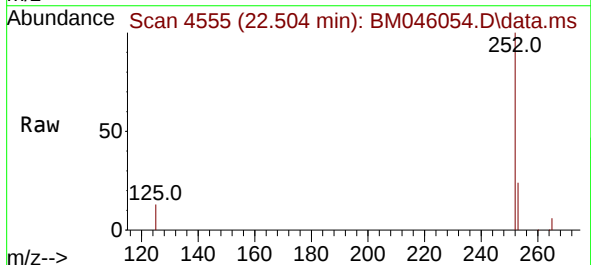
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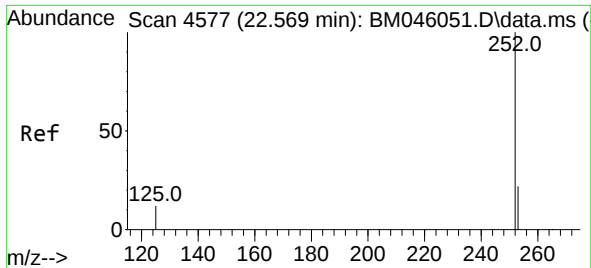
Reviewed By :Jagrut Upadhyay 06/19/2024  
Supervised By :mohammad ahmed 06/21/2024



#24  
Benzo(b)fluoranthene  
Concen: 3.158 ng/ul m  
RT: 22.504 min Scan# 4555  
Delta R.T. -0.015 min  
Lab File: BM046054.D  
Acq: 18 Jun 2024 16:58

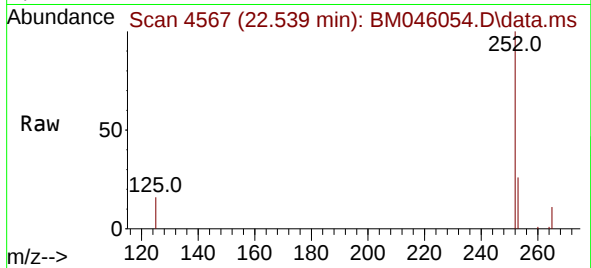
Tgt Ion:252 Resp: 118425  
Ion Ratio Lower Upper  
252 100  
253 24.0 0.0 65.8  
125 13.3 0.0 40.2





#25  
Benzo(k)fluoranthene  
Concen: 1.035 ng/ul m  
RT: 22.539 min Scan# 41  
Delta R.T. -0.024 min  
Lab File: BM046054.D  
Acq: 18 Jun 2024 16:58

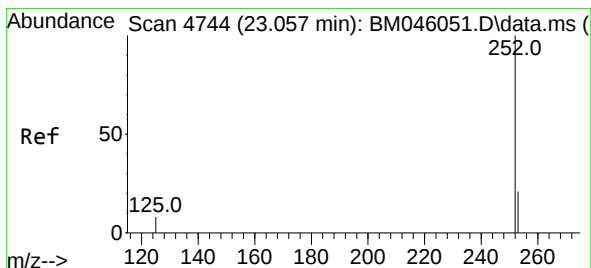
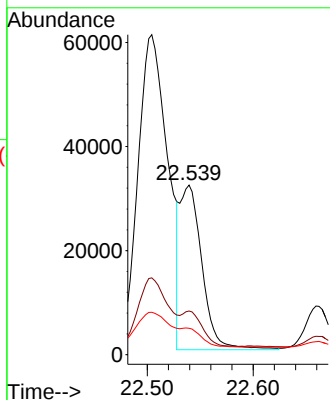
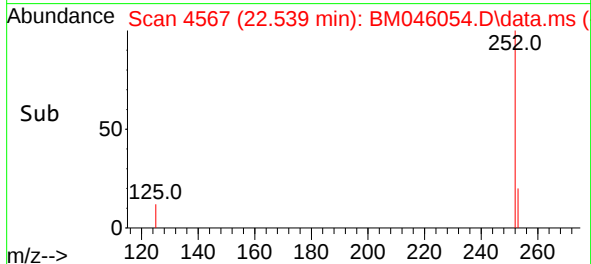
Instrument :  
BNA\_M  
ClientSampleId :  
A4BJ2



Tgt Ion:252 Resp: 46134  
Ion Ratio Lower Upper  
252 100  
253 25.7 27.2 40.8#  
125 15.6 16.6 25.0#

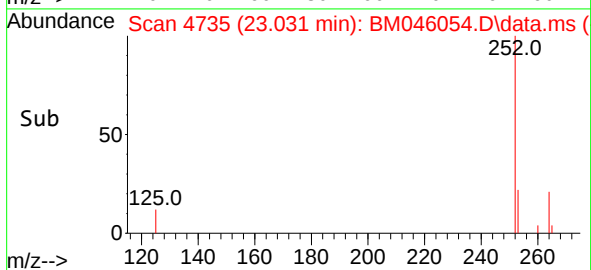
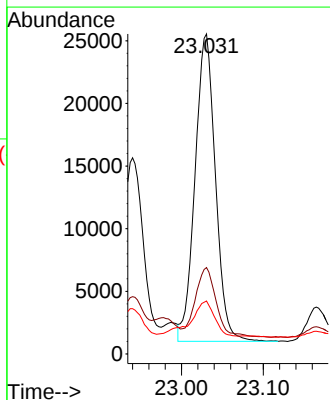
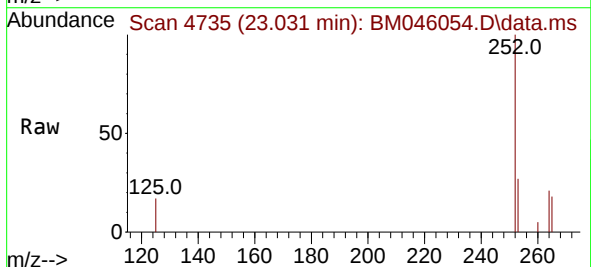
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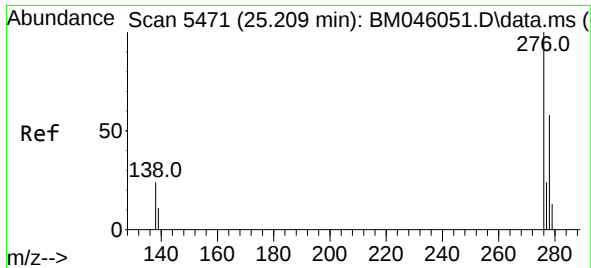
Reviewed By :Jagrut Upadhyay 06/19/2024  
Supervised By :mohammad ahmed 06/21/2024



#26  
Benzo(a)pyrene  
Concen: 1.226 ng/ul  
RT: 23.031 min Scan# 4735  
Delta R.T. -0.024 min  
Lab File: BM046054.D  
Acq: 18 Jun 2024 16:58

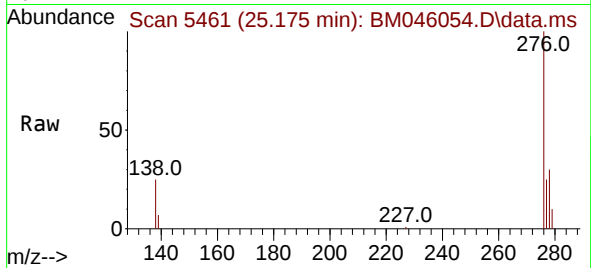
Tgt Ion:252 Resp: 42613  
Ion Ratio Lower Upper  
252 100  
253 27.0 32.1 48.1#  
125 16.6 21.2 31.8#





#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.896 ng/ul  
RT: 25.175 min Scan# 5461  
Delta R.T. -0.027 min  
Lab File: BM046054.D  
Acq: 18 Jun 2024 16:58

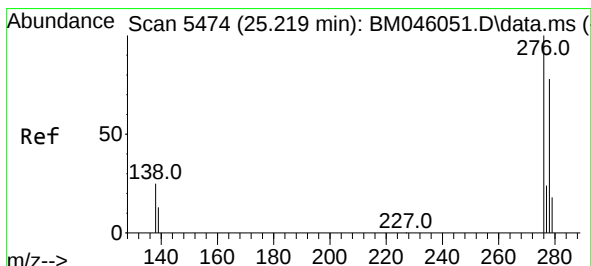
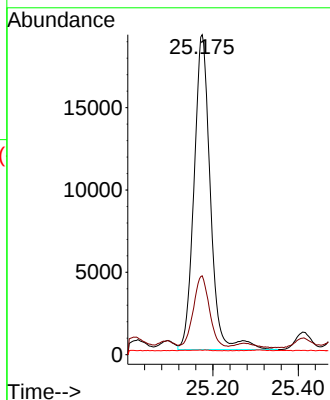
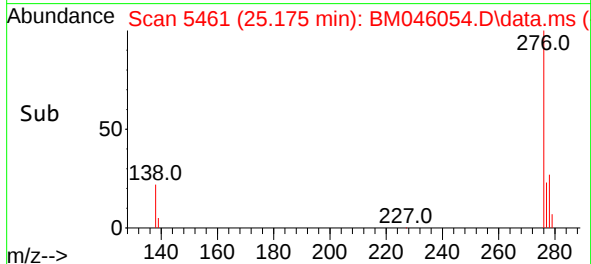
Instrument :  
BNA\_M  
ClientSampleId :  
A4BJ2



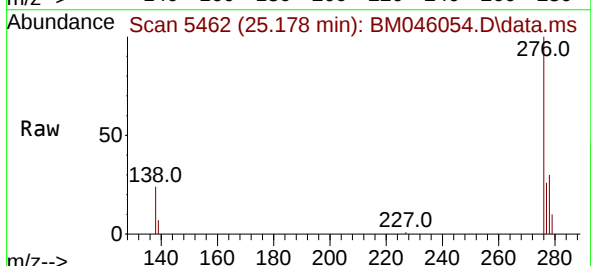
Tgt Ion:276 Resp: 50940  
Ion Ratio Lower Upper  
276 100  
138 21.4 21.0 31.4  
227 0.1 0.0 0.0

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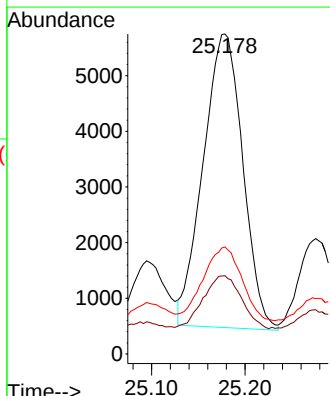
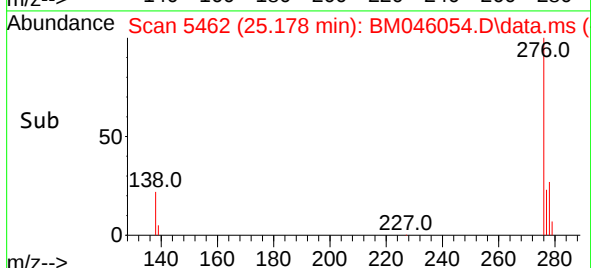
Reviewed By :Jagrut Upadhyay 06/19/2024  
Supervised By :mohammad ahmed 06/21/2024

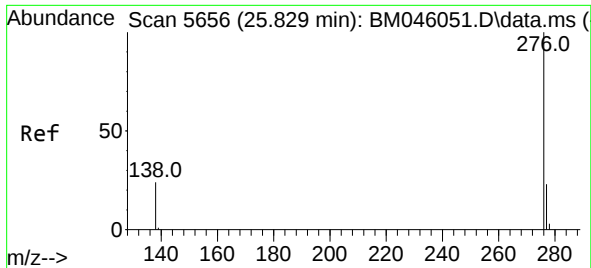


#28  
Dibenzo(a,h)anthracene  
Concen: 0.367 ng/ul  
RT: 25.178 min Scan# 5462  
Delta R.T. -0.037 min  
Lab File: BM046054.D  
Acq: 18 Jun 2024 16:58



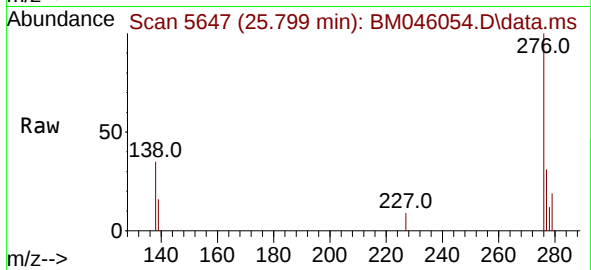
Tgt Ion:278 Resp: 15548  
Ion Ratio Lower Upper  
278 100  
139 24.5 17.6 26.4  
279 33.4 26.3 39.5





#29  
Benzo(g,h,i)perylene  
Concen: 0.157 ng/ul  
RT: 25.799 min Scan# 50  
Delta R.T. -0.031 min  
Lab File: BM046054.D  
Acq: 18 Jun 2024 16:58

Instrument :  
BNA\_M  
ClientSampleId :  
A4BJ2



|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 276   | Resp: | 767  |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 138       | 35.5  | 21.7  | 32.5 |
| 277       | 31.2  | 20.4  | 30.6 |

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

