

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
 Data File : BM045915.D  
 Acq On : 08 Jun 2024 14:27  
 Operator : MA/JU  
 Sample : P2640-12  
 Misc :  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4C26

Manual Integrations  
 APPROVED

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

Quant Time: Jun 10 01:28:26 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  | 6565     | 0.400  | ng/ul  | -0.02    |
| 4) Naphthalene-d8           | 10.231 | 136  | 22280    | 0.400  | ng/ul  | -0.02    |
| 9) Acenaphthene-d10         | 14.108 | 164  | 12151    | 0.400  | ng/ul  | -0.01    |
| 13) Phenanthrene-d10        | 16.849 | 188  | 28038m   | 0.400  | ng/ul  | -0.02    |
| 17) Chrysene-d12            | 21.044 | 240  | 18135m   | 0.400  | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.151 | 264  | 18600m   | 0.400  | ng/ul  | -0.01    |
|                             |        |      |          |        |        |          |
| System Monitoring Compounds |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8           | 3.059  | 96   | 23298    | 3.116  | ng/ul  | -0.03    |
| 6) 2-Methylnaphthalene-d10  | 11.837 | 152  | 6709     | 0.209  | ng/ul  | -0.01    |
| 18) Fluoranthene-d10        | 18.880 | 212  | 16334m   | 0.301  | ng/ul  | -0.01    |
|                             |        |      |          |        |        |          |
| Target Compounds            |        |      |          |        | Qvalue |          |
| 5) Naphthalene              | 10.281 | 128  | 13147    | 0.226  | ng/ul  | 98       |
| 7) 2-Methylnaphthalene      | 11.914 | 142  | 5066     | 0.136  | ng/ul  | 99       |
| 8) 1-Methylnaphthalene      | 12.134 | 142  | 4538     | 0.112  | ng/ul  | 100      |
| 10) Acenaphthylene          | 13.825 | 152  | 32877    | 0.595  | ng/ul  | 99       |
| 11) Acenaphthene            | 14.168 | 153  | 19490    | 0.480  | ng/ul  | 99       |
| 12) Fluorene                | 15.162 | 166  | 27453    | 0.605  | ng/ul  | 98       |
| 15) Phenanthrene            | 16.891 | 178  | 699000m  | 8.879  | ng/ul  |          |
| 16) Anthracene              | 16.980 | 178  | 114948m  | 1.712  | ng/ul  |          |
| 19) Fluoranthene            | 18.913 | 202  | 1564308m | 21.632 | ng/ul  |          |
| 20) Pyrene                  | 19.275 | 202  | 1102268m | 14.612 | ng/ul  |          |
| 21) Benzo(a)anthracene      | 21.026 | 228  | 597549m  | 8.977  | ng/ul  |          |
| 22) Chrysene                | 21.079 | 228  | 665016m  | 9.176  | ng/ul  |          |
| 24) Benzo(b)fluoranthene    | 22.531 | 252  | 794087m  | 12.872 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.566 | 252  | 262776m  | 3.876  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.060 | 252  | 310787m  | 5.066  | ng/ul  |          |
| 27) Indeno(1,2,3-cd)pyrene  | 25.212 | 276  | 277065m  | 3.492  | ng/ul  |          |
| 28) Dibenzo(a,h)anthracene  | 25.219 | 278  | 84004m   | 1.325  | ng/ul  |          |
| 29) Benzo(g,h,i)perylene    | 25.846 | 276  | 44789m   | 0.655  | ng/ul  |          |
| -----                       |        |      |          |        |        |          |

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

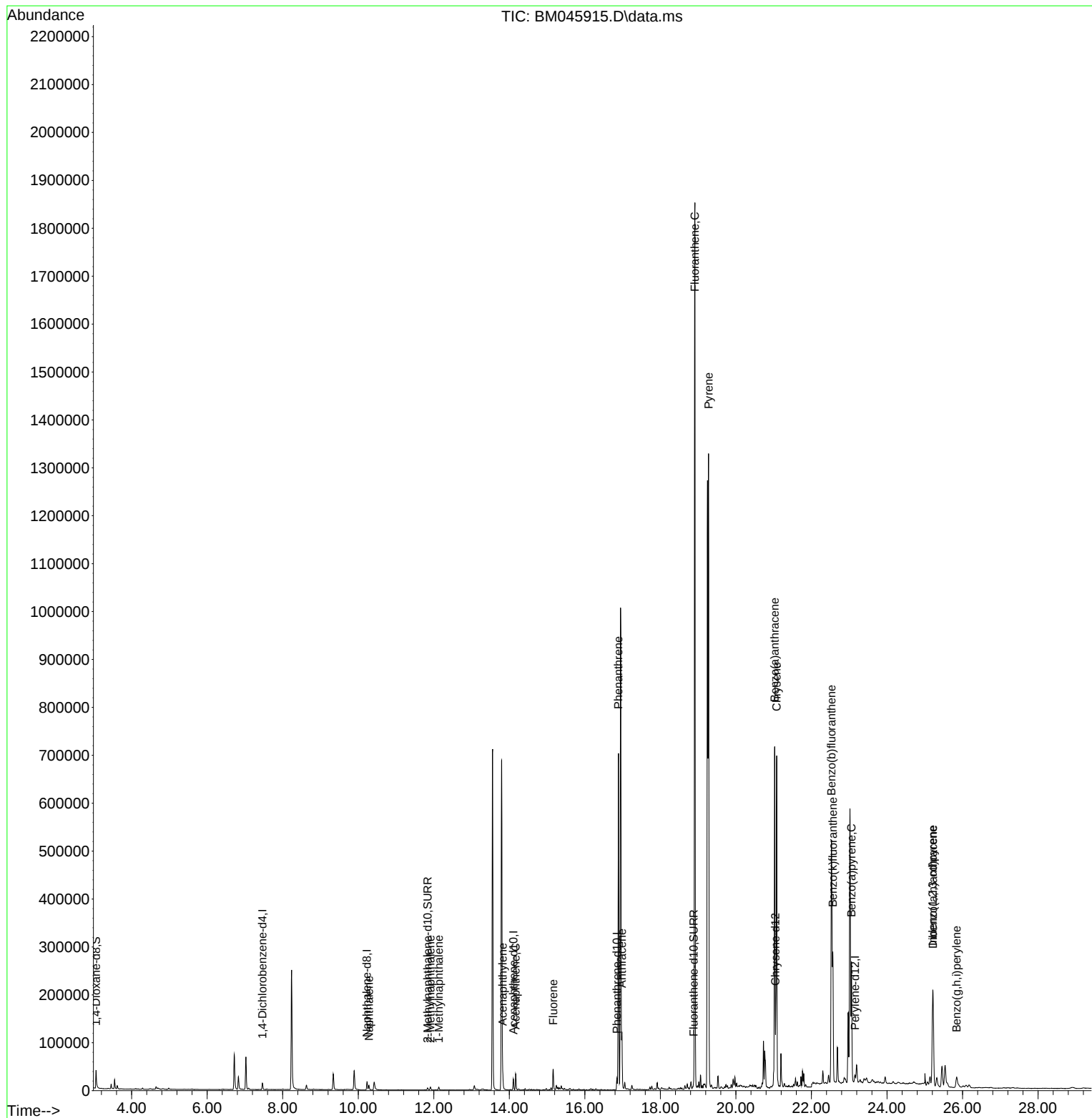
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045915.D  
Acq On : 08 Jun 2024 14:27  
Operator : MA/JU  
Sample : P2640-12  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

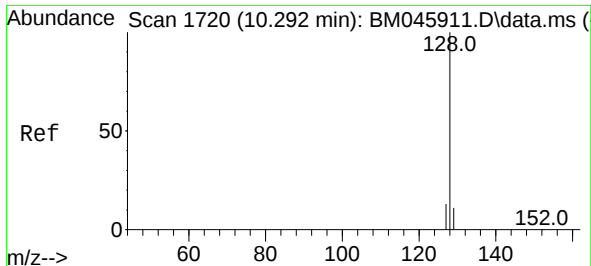
Instrument :  
BNA\_M  
ClientSampleId :  
A4C26

Manual Integrations  
APPROVED

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

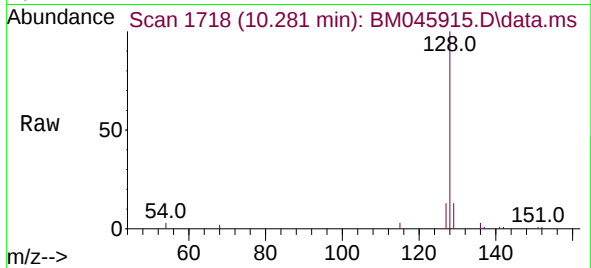
Quant Time: Jun 10 01:28:26 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 07 22:59:16 2024  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.226 ng/ul  
RT: 10.281 min Scan# 1718  
Delta R.T. -0.022 min  
Lab File: BM045915.D  
Acq: 08 Jun 2024 14:27

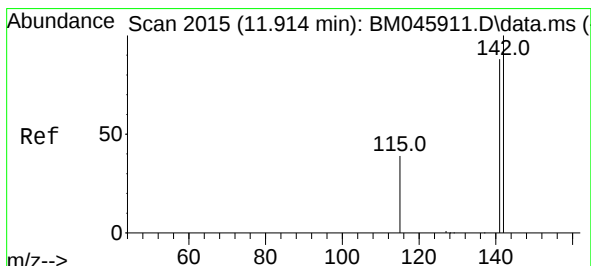
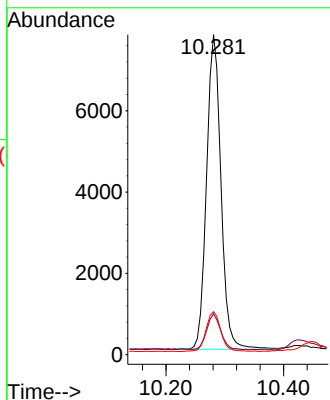
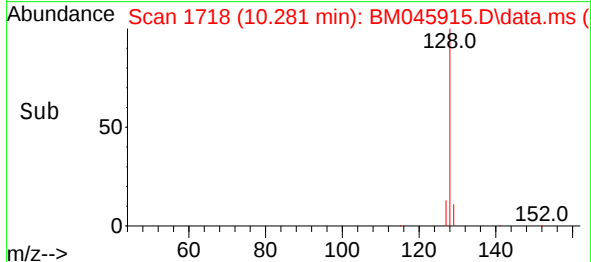
Instrument :  
BNA\_M  
ClientSampleId :  
A4C26



Tgt Ion:128 Resp: 1314  
Ion Ratio Lower Upper  
128 100  
129 12.8 9.4 14.0  
127 13.4 10.6 15.8

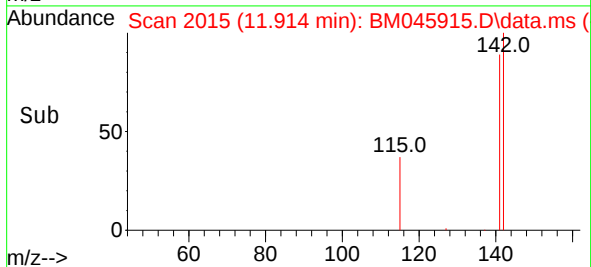
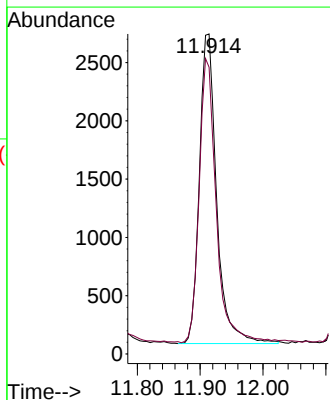
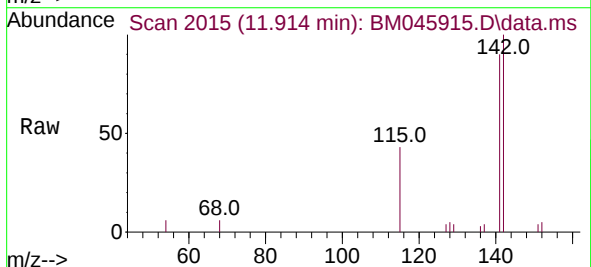
Manual Integrations  
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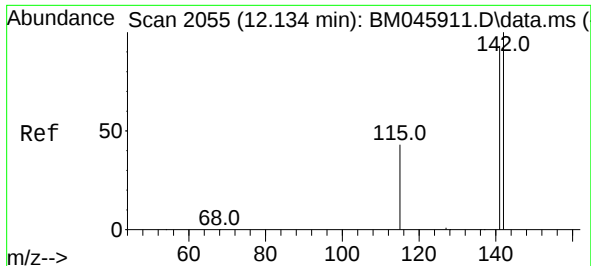
Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



#7  
2-Methylnaphthalene  
Concen: 0.136 ng/ul  
RT: 11.914 min Scan# 2015  
Delta R.T. -0.006 min  
Lab File: BM045915.D  
Acq: 08 Jun 2024 14:27

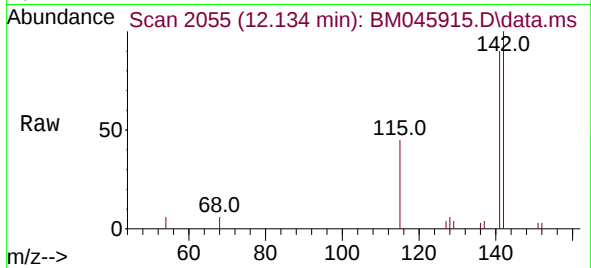
Tgt Ion:142 Resp: 5066  
Ion Ratio Lower Upper  
142 100  
141 91.1 72.2 108.4





#8  
1-Methylnaphthalene  
Concen: 0.112 ng/ul  
RT: 12.134 min Scan# 2055  
Delta R.T. -0.011 min  
Lab File: BM045915.D  
Acq: 08 Jun 2024 14:27

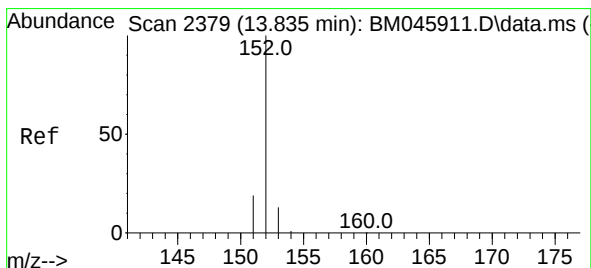
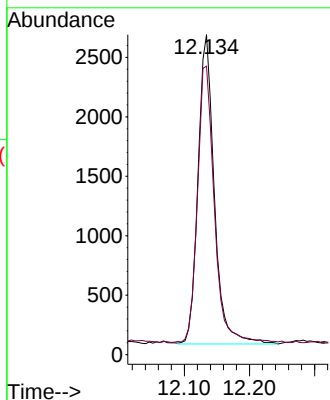
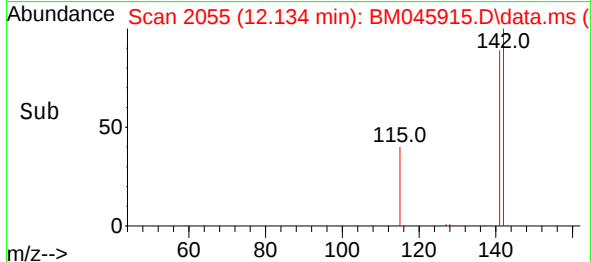
Instrument :  
BNA\_M  
ClientSampleId :  
A4C26



Tgt Ion:142 Resp: 4538  
Ion Ratio Lower Upper  
142 100  
141 91.7 73.5 110.3

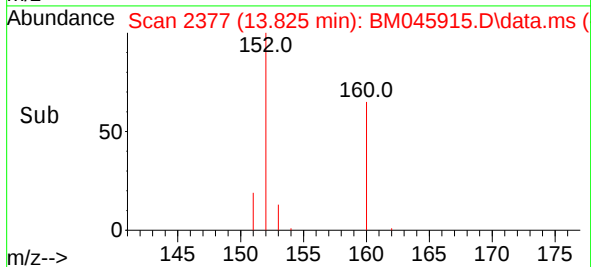
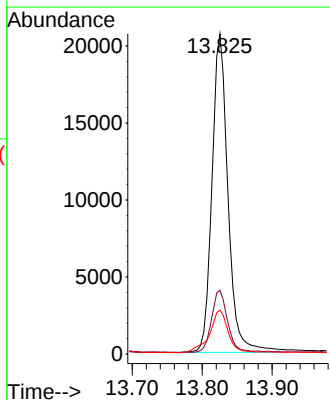
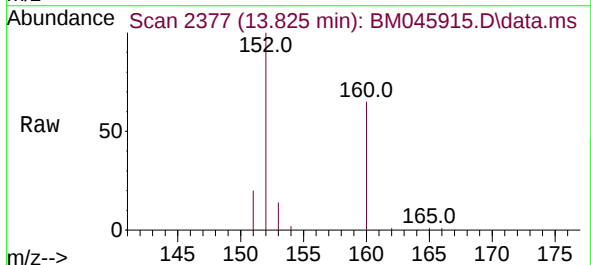
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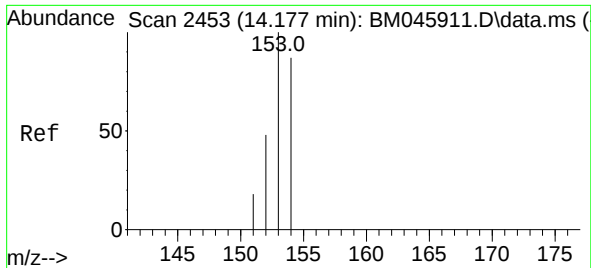
Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



#10  
Acenaphthylene  
Concen: 0.595 ng/ul  
RT: 13.825 min Scan# 2377  
Delta R.T. -0.014 min  
Lab File: BM045915.D  
Acq: 08 Jun 2024 14:27

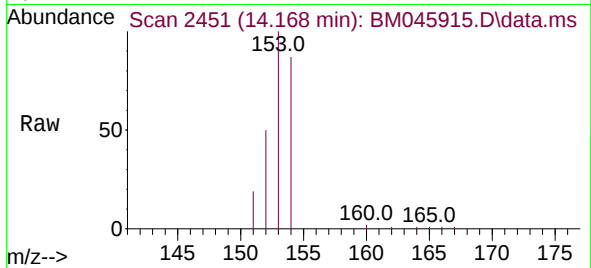
Tgt Ion:152 Resp: 32877  
Ion Ratio Lower Upper  
152 100  
151 19.9 16.4 24.6  
153 13.7 11.1 16.7





#11  
Acenaphthene  
Concen: 0.480 ng/ul  
RT: 14.168 min Scan# 2451  
Delta R.T. -0.014 min  
Lab File: BM045915.D  
Acq: 08 Jun 2024 14:27

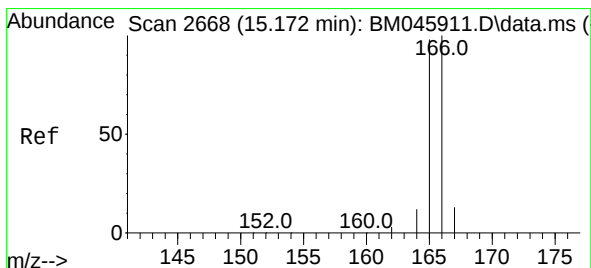
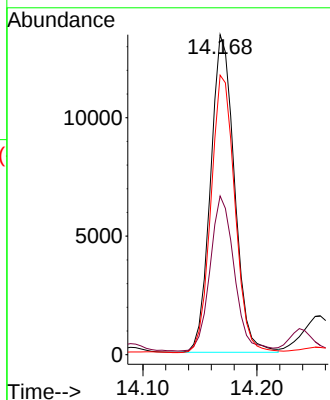
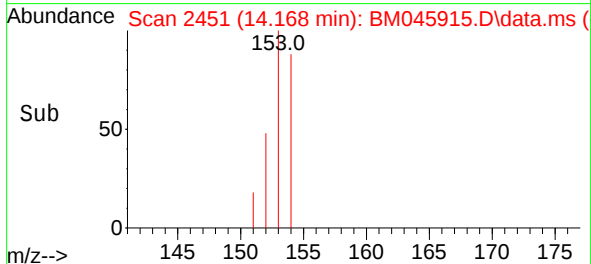
Instrument :  
BNA\_M  
ClientSampleId :  
A4C26



Tgt Ion:153 Resp: 19490  
Ion Ratio Lower Upper  
153 100  
152 49.6 39.0 58.4  
154 87.4 69.4 104.2

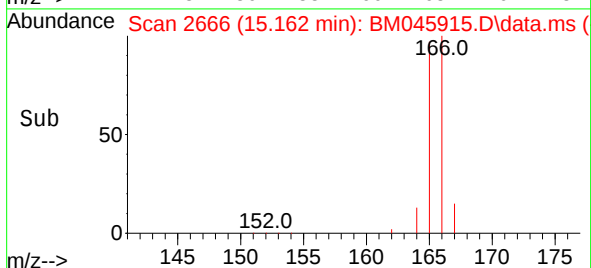
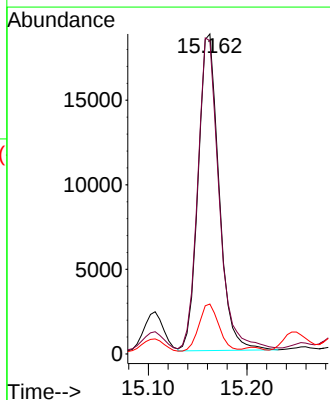
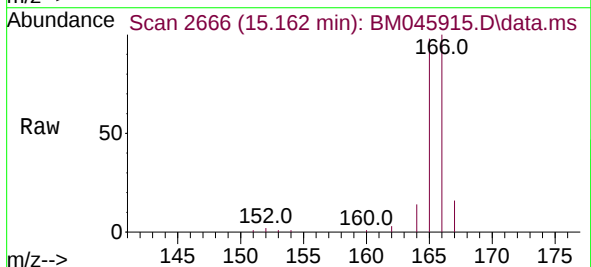
Manual Integrations  
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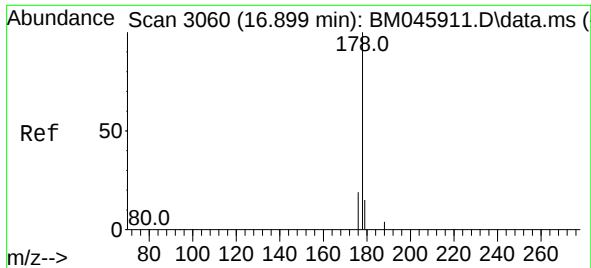
Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



#12  
Fluorene  
Concen: 0.605 ng/ul  
RT: 15.162 min Scan# 2666  
Delta R.T. -0.014 min  
Lab File: BM045915.D  
Acq: 08 Jun 2024 14:27

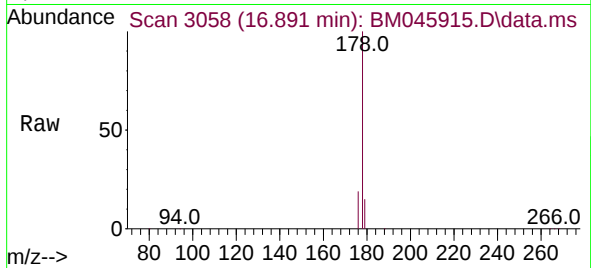
Tgt Ion:166 Resp: 27453  
Ion Ratio Lower Upper  
166 100  
165 97.9 79.7 119.5  
167 15.6 11.3 16.9





#15  
Phenanthrene  
Concen: 8.879 ng/ul m  
RT: 16.891 min Scan# 3058  
Delta R.T. -0.013 min  
Lab File: BM045915.D  
Acq: 08 Jun 2024 14:27

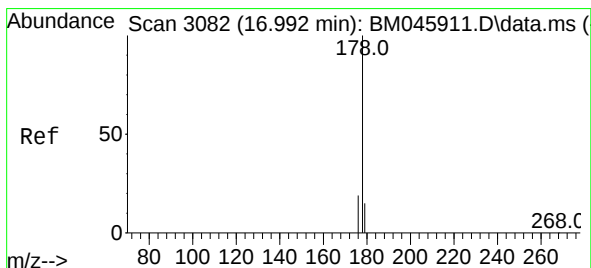
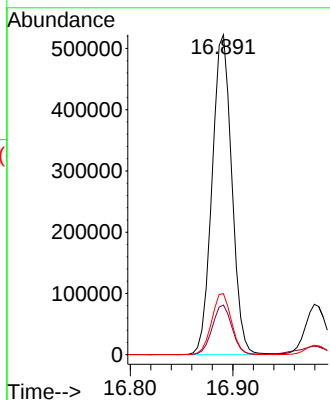
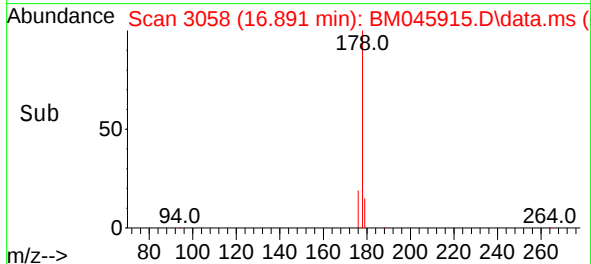
Instrument :  
BNA\_M  
ClientSampleId :  
A4C26



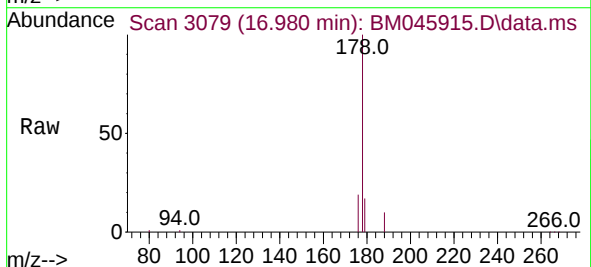
Tgt Ion:178 Resp: 699000  
Ion Ratio Lower Upper  
178 100  
179 15.5 12.7 19.1  
176 19.1 15.6 23.4

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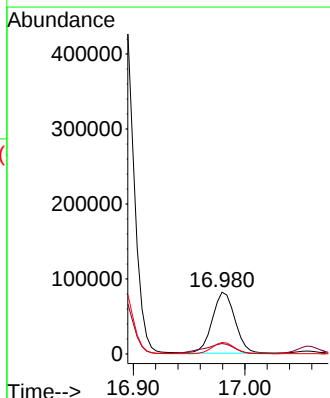
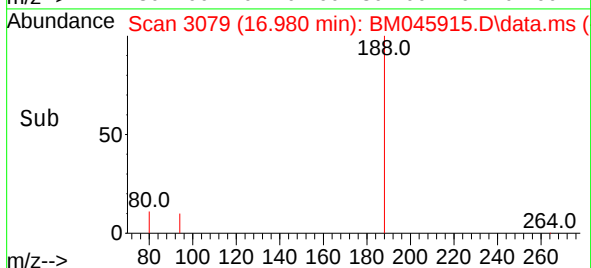
Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024

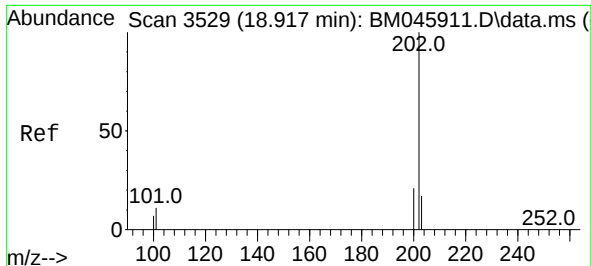


#16  
Anthracene  
Concen: 1.712 ng/ul m  
RT: 16.980 min Scan# 3079  
Delta R.T. -0.017 min  
Lab File: BM045915.D  
Acq: 08 Jun 2024 14:27



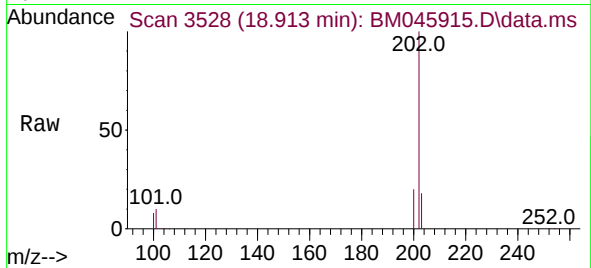
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Ion Ratio Lower Upper  
178 100  
179 16.9 13.1 19.7  
176 18.8 15.5 23.3





#19  
Fluoranthene  
Concen: 21.632 ng/ul m  
RT: 18.913 min Scan# 3528  
Delta R.T. -0.009 min  
Lab File: BM045915.D  
Acq: 08 Jun 2024 14:27

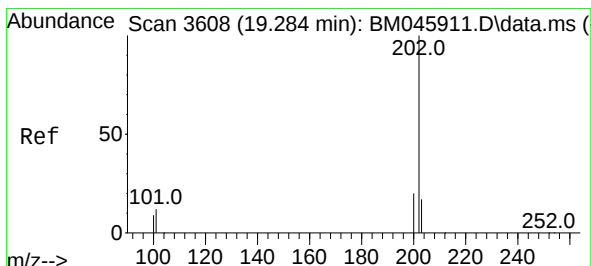
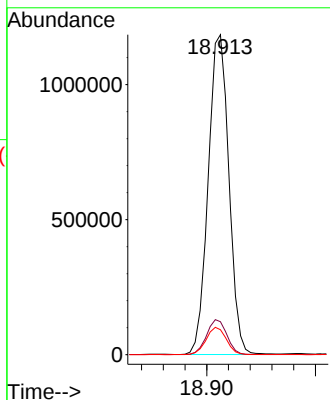
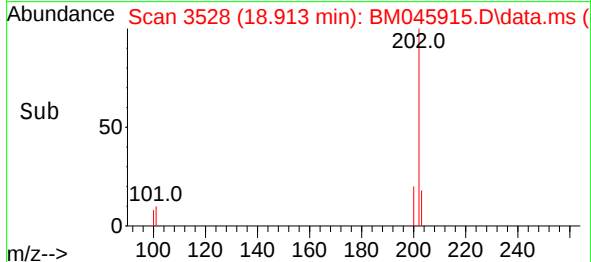
Instrument :  
BNA\_M  
ClientSampleId :  
A4C26



Tgt Ion:202 Resp: 1564308  
Ion Ratio Lower Upper  
202 100  
101 10.3 9.0 13.6  
100 7.8 7.0 10.6

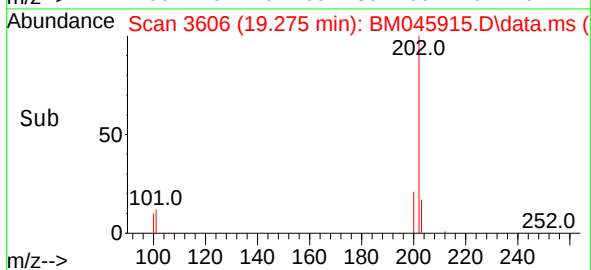
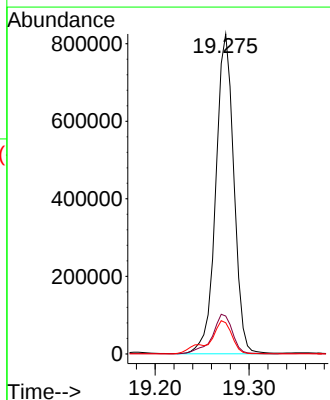
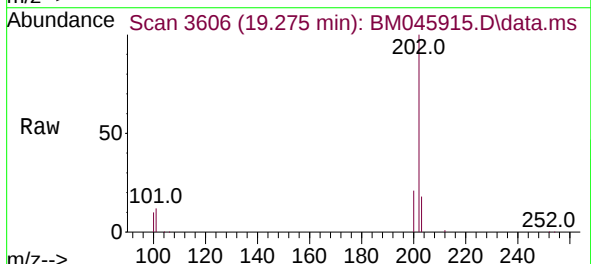
Manual Integrations  
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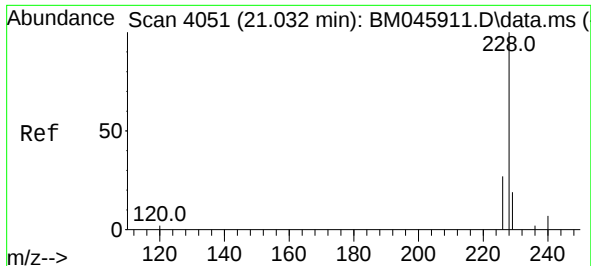
Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



#20  
Pyrene  
Concen: 14.612 ng/ul m  
RT: 19.275 min Scan# 3606  
Delta R.T. -0.009 min  
Lab File: BM045915.D  
Acq: 08 Jun 2024 14:27

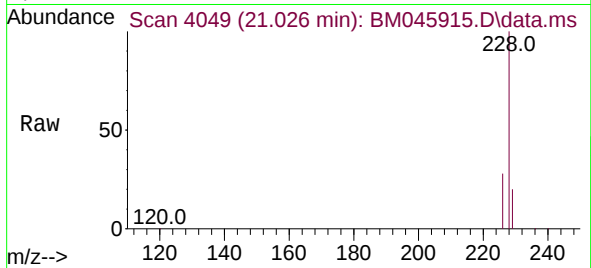
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Ion Ratio Lower Upper  
202 100  
101 11.9 10.6 16.0  
100 9.8 9.1 13.7





#21  
Benzo(a)anthracene  
Concen: 8.977 ng/ul m  
RT: 21.026 min Scan# 4051  
Delta R.T. -0.009 min  
Lab File: BM045915.D  
Acq: 08 Jun 2024 14:27

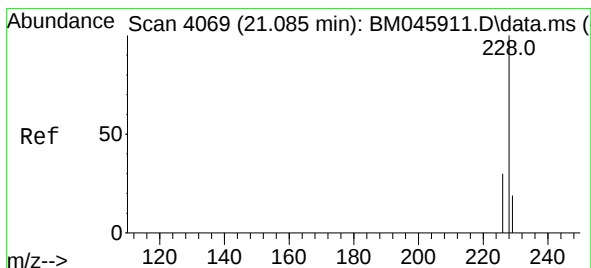
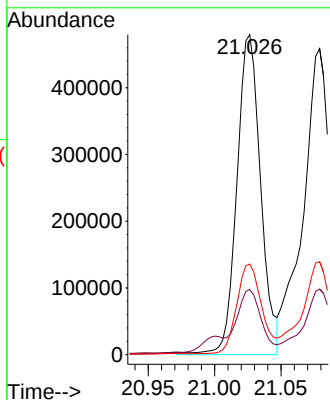
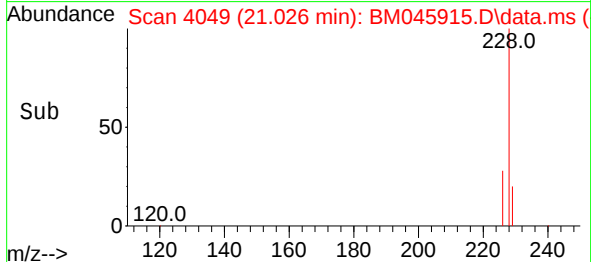
Instrument :  
BNA\_M  
ClientSampleId :  
A4C26



Tgt Ion:228 Resp: 597549  
Ion Ratio Lower Upper  
228 100  
229 20.4 15.7 23.5  
226 28.3 22.0 33.0

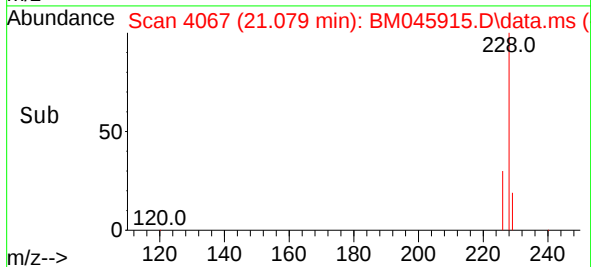
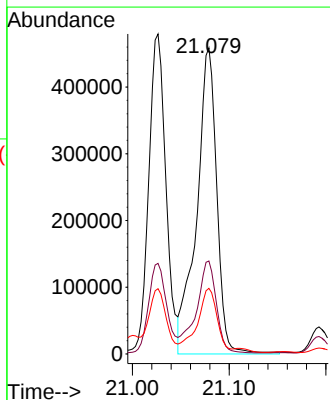
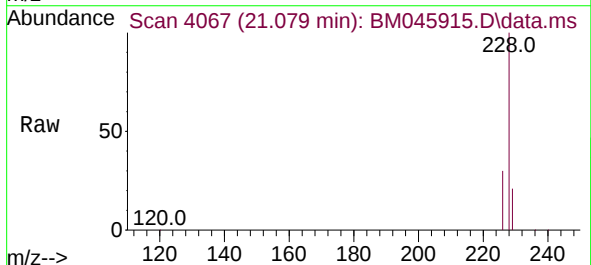
Manual Integrations  
APPROVED

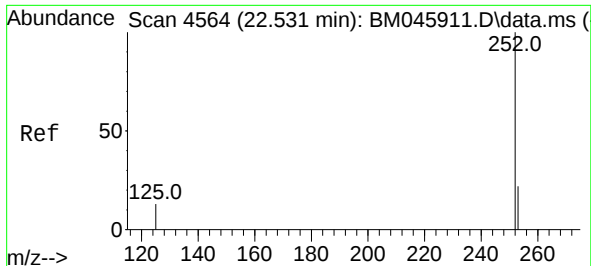
Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



#22  
Chrysene  
Concen: 9.176 ng/ul m  
RT: 21.079 min Scan# 4067  
Delta R.T. -0.009 min  
Lab File: BM045915.D  
Acq: 08 Jun 2024 14:27

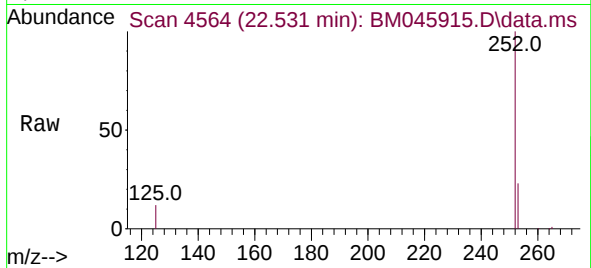
Tgt Ion:228 Resp: 665016  
Ion Ratio Lower Upper  
228 100  
226 30.4 24.5 36.7  
229 21.5 16.2 24.2





#24  
Benzo(b)fluoranthene  
Concen: 12.872 ng/ul m  
RT: 22.531 min Scan# 4564  
Delta R.T. -0.006 min  
Lab File: BM045915.D  
Acq: 08 Jun 2024 14:27

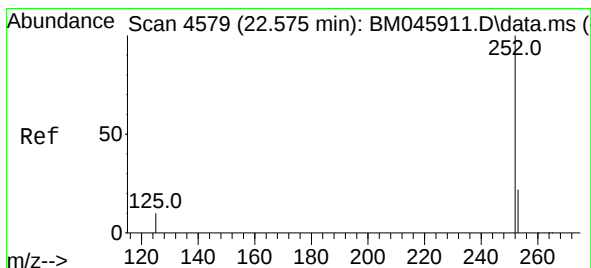
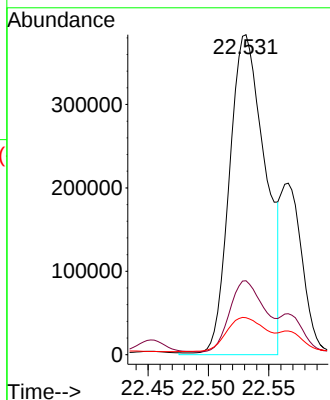
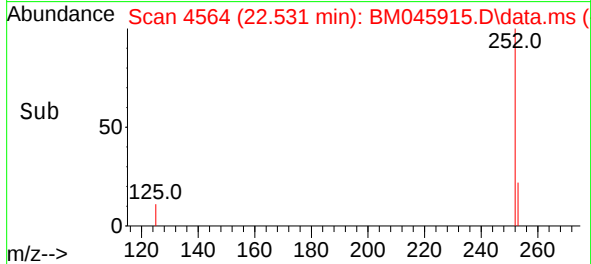
Instrument :  
BNA\_M  
ClientSampleId :  
A4C26



Tgt Ion:252 Resp: 79408  
Ion Ratio Lower Upper  
252 100  
253 23.1 0.0 63.6  
125 11.5 0.0 35.8

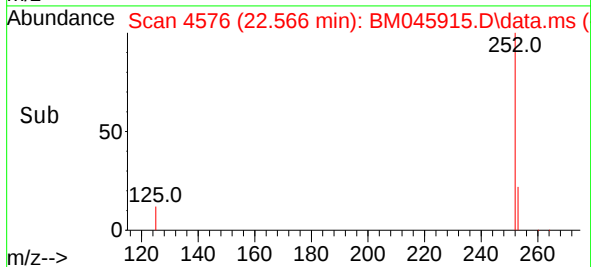
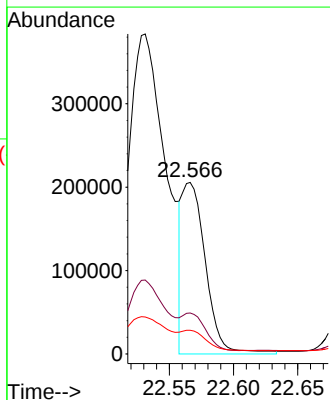
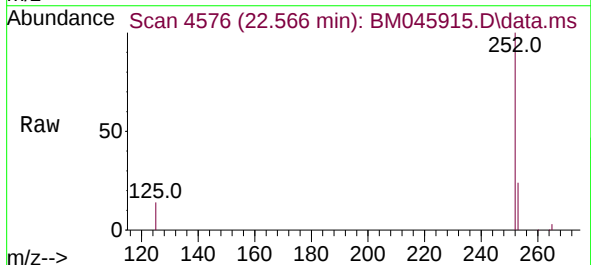
Manual Integrations  
APPROVED

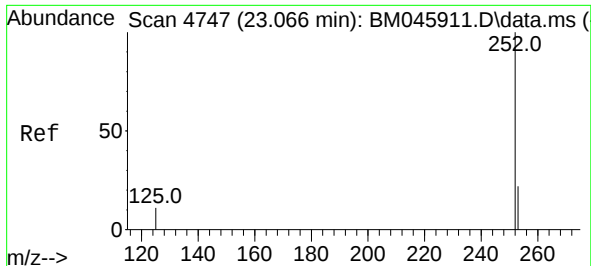
Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



#25  
Benzo(k)fluoranthene  
Concen: 3.876 ng/ul m  
RT: 22.566 min Scan# 4576  
Delta R.T. -0.015 min  
Lab File: BM045915.D  
Acq: 08 Jun 2024 14:27

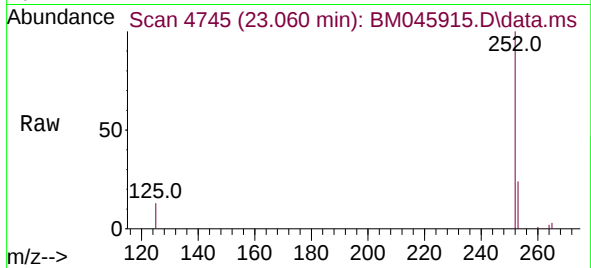
Tgt Ion:252 Resp: 262776  
Ion Ratio Lower Upper  
252 100  
253 23.9 25.0 37.6#  
125 13.8 14.2 21.2#





#26  
Benzo(a)pyrene  
Concen: 5.066 ng/ul m  
RT: 23.060 min Scan# 4745  
Delta R.T. -0.012 min  
Lab File: BM045915.D  
Acq: 08 Jun 2024 14:27

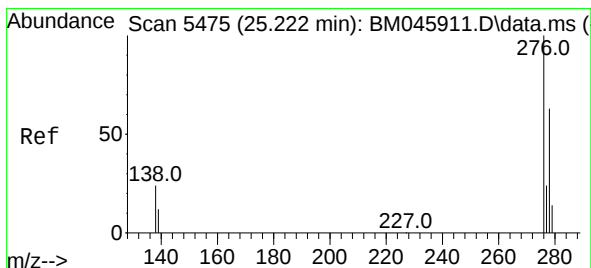
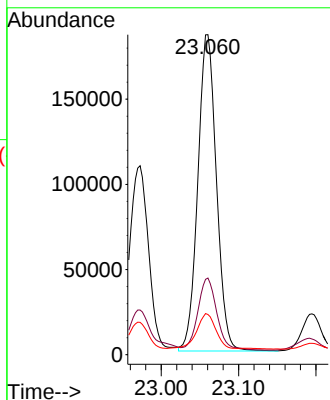
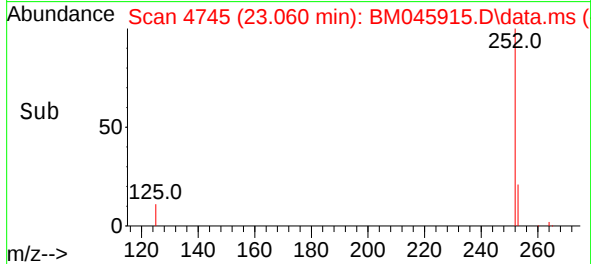
Instrument :  
BNA\_M  
ClientSampleId :  
A4C26



Tgt Ion:252 Resp: 31078  
Ion Ratio Lower Upper  
252 100  
253 24.0 28.8 43.2  
125 12.6 17.3 25.9

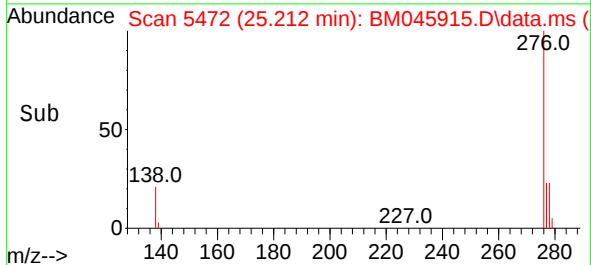
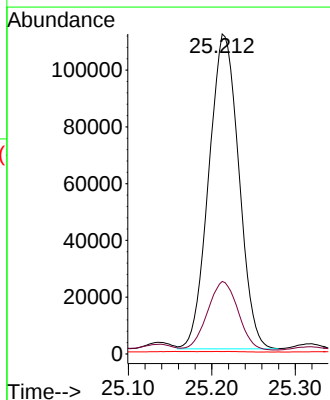
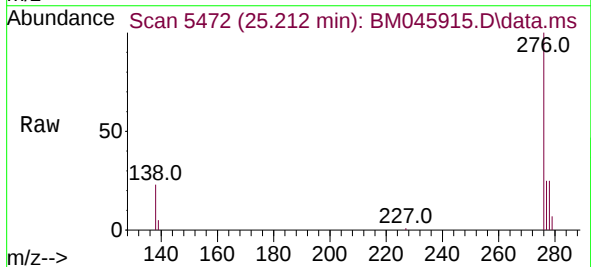
Manual Integrations  
APPROVED

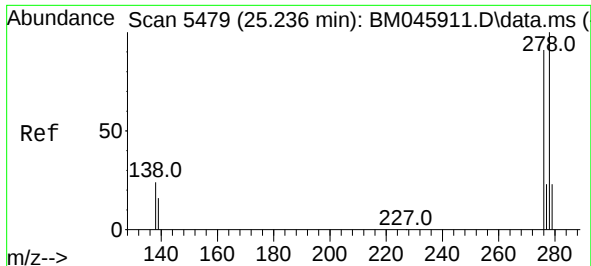
Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 3.492 ng/ul m  
RT: 25.212 min Scan# 5472  
Delta R.T. -0.020 min  
Lab File: BM045915.D  
Acq: 08 Jun 2024 14:27

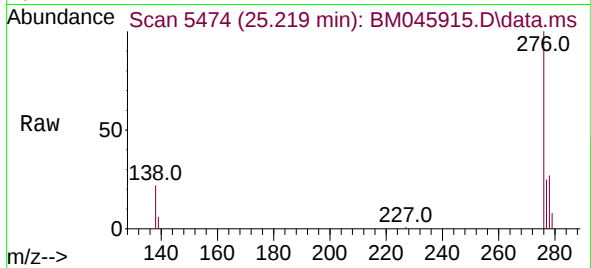
Tgt Ion:276 Resp: 277065  
Ion Ratio Lower Upper  
276 100  
138 2.6 20.7 31.1#  
227 0.0 0.2 0.2#





#28  
Dibenzo(a,h)anthracene  
Concen: 1.325 ng/ul m  
RT: 25.219 min Scan# 5479  
Delta R.T. -0.030 min  
Lab File: BM045915.D  
Acq: 08 Jun 2024 14:27

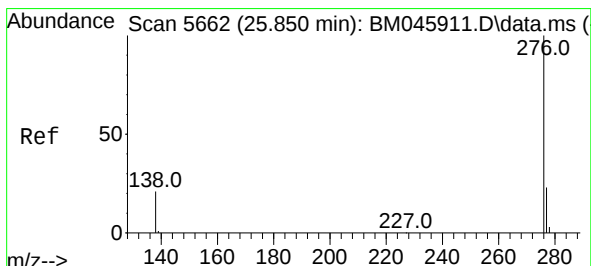
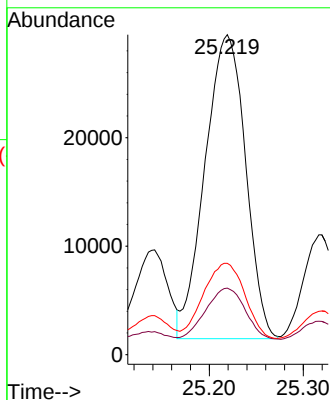
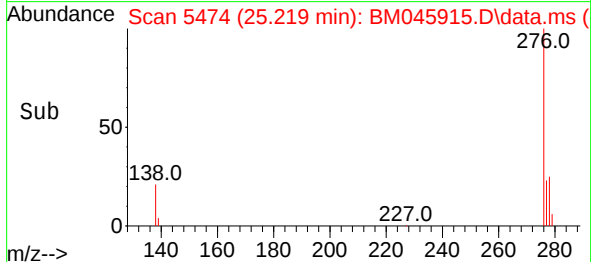
Instrument :  
BNA\_M  
ClientSampleId :  
A4C26



Tgt Ion:278 Resp: 84004  
Ion Ratio Lower Upper  
278 100  
139 20.8 16.6 25.0  
279 28.6 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: 0.655 ng/ul m  
RT: 25.846 min Scan# 5661  
Delta R.T. -0.016 min  
Lab File: BM045915.D  
Acq: 08 Jun 2024 14:27

Tgt Ion:276 Resp: 44789  
Ion Ratio Lower Upper  
276 100  
138 27.0 21.0 31.4  
277 28.3 20.5 30.7

