

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM072123\  
 Data File : BM041027.D  
 Acq On : 21 Jul 2023 21:15  
 Operator : MA/JU  
 Sample : 03444-11DL 5X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A46R8DL

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 07/22/2023  
 Supervised By :mohammad ahmed 07/22/2023

Quant Time: Jul 21 23:51:27 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM071923.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 21 18:20:46 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|--------|------|----------|-------|---------|----------|
| -----                       |        |      |          |       |         |          |
| Internal Standards          |        |      |          |       |         |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.861  | 152  | 4607     | 0.400 | ng/ul   | 0.00     |
| 4) Naphthalene-d8           | 10.669 | 136  | 15127    | 0.400 | ng/ul # | 0.00     |
| 9) Acenaphthene-d10         | 14.518 | 164  | 7503     | 0.400 | ng/ul   | 0.00     |
| 13) Phenanthrene-d10        | 17.270 | 188  | 15541    | 0.400 | ng/ul   | 0.00     |
| 17) Chrysene-d12            | 21.463 | 240  | 13341    | 0.400 | ng/ul # | 0.00     |
| 23) Perylene-d12            | 23.854 | 264  | 13235    | 0.400 | ng/ul # | 0.00     |
|                             |        |      |          |       |         |          |
| System Monitoring Compounds |        |      |          |       |         |          |
| 3) 1,4-Dioxane-d8           | 3.284  | 96   | 2009     | 0.265 | ng/ul   | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.264 | 152  | 1151     | 0.057 | ng/ul   | 0.00     |
| 18) Fluoranthene-d10        | 19.301 | 212  | 2325     | 0.041 | ng/ul   | 0.00     |
|                             |        |      |          |       |         |          |
| Target Compounds            |        |      |          |       |         |          |
|                             |        |      |          |       | Qvalue  |          |
| 5) Naphthalene              | 10.719 | 128  | 6541     | 0.158 | ng/ul   | 98       |
| 7) 2-Methylnaphthalene      | 12.341 | 142  | 816      | 0.036 | ng/ul   | 95       |
| 8) 1-Methylnaphthalene      | 12.555 | 142  | 740      | 0.031 | ng/ul   | 99       |
| 10) Acenaphthylene          | 14.236 | 152  | 3304     | 0.105 | ng/ul#  | 91       |
| 11) Acenaphthene            | 14.578 | 153  | 3423     | 0.124 | ng/ul   | 97       |
| 12) Fluorene                | 15.568 | 166  | 3869     | 0.135 | ng/ul   | 99       |
| 15) Phenanthrene            | 17.312 | 178  | 77285    | 1.664 | ng/ul   | 98       |
| 16) Anthracene              | 17.405 | 178  | 13043    | 0.360 | ng/ul   | 98       |
| 19) Fluoranthene            | 19.329 | 202  | 141795   | 2.059 | ng/ul   | 95       |
| 20) Pyrene                  | 19.692 | 202  | 134185   | 1.907 | ng/ul   | 95       |
| 21) Benzo(a)anthracene      | 21.445 | 228  | 53891    | 1.326 | ng/ul   | 99       |
| 22) Chrysene                | 21.498 | 228  | 56319    | 1.212 | ng/ul   | 99       |
| 24) Benzo(b)fluoranthene    | 23.126 | 252  | 69439    | 1.367 | ng/ul   | 87       |
| 25) Benzo(k)fluoranthene    | 23.167 | 252  | 26418m   | 0.547 | ng/ul   |          |
| 26) Benzo(a)pyrene          | 23.746 | 252  | 41217    | 0.939 | ng/ul#  | 76       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.317 | 276  | 35512    | 0.610 | ng/ul#  | 84       |
| 28) Dibenzo(a,h)anthracene  | 26.330 | 278  | 7709     | 0.175 | ng/ul   | 97       |
| 29) Benzo(g,h,i)perylene    | 27.078 | 276  | 36416    | 0.677 | ng/ul#  | 92       |
| -----                       |        |      |          |       |         |          |

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

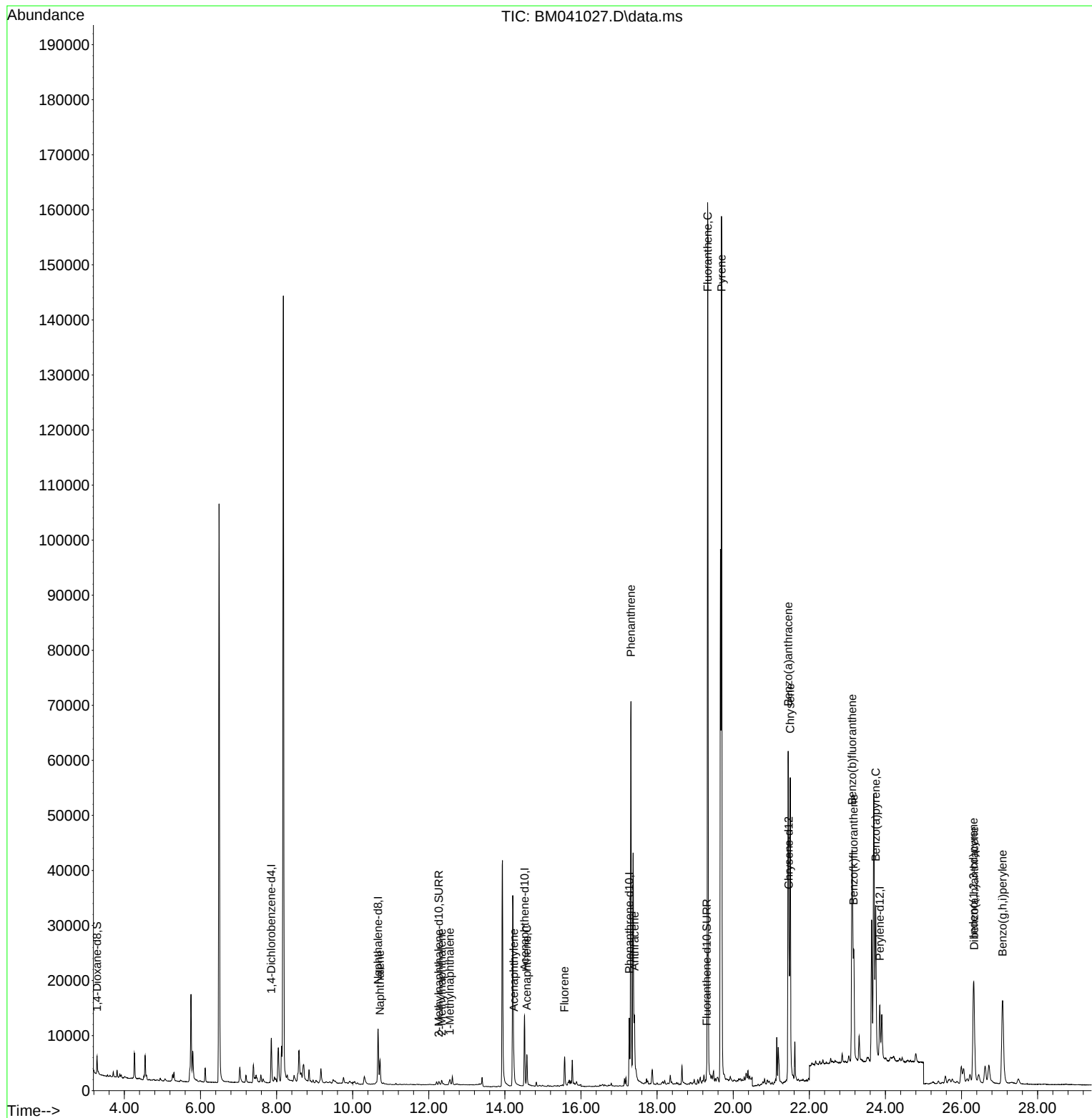
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM072123\  
Data File : BM041027.D  
Acq On : 21 Jul 2023 21:15  
Operator : MA/JU  
Sample : 03444-11DL 5X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

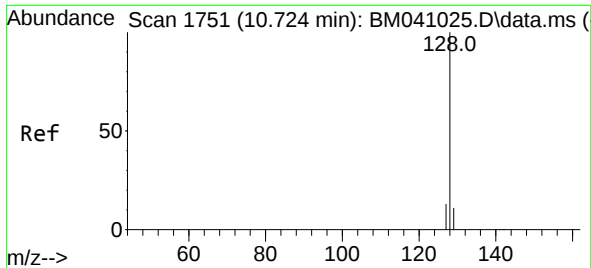
Instrument :  
BNA\_M  
ClientSampleId :  
A46R8DL

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 07/22/2023  
Supervised By :mohammad ahmed 07/22/2023

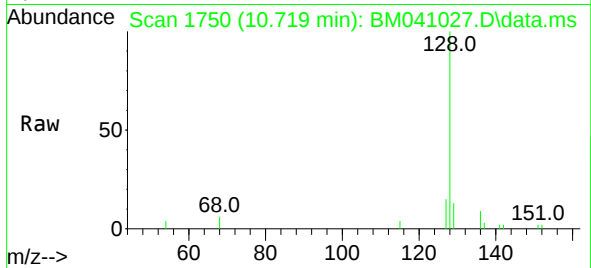
Quant Time: Jul 21 23:51:27 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM071923.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jul 21 18:20:46 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.158 ng/ul  
RT: 10.719 min Scan# 1750  
Delta R.T. -0.000 min  
Lab File: BM041027.D  
Acq: 21 Jul 2023 21:15

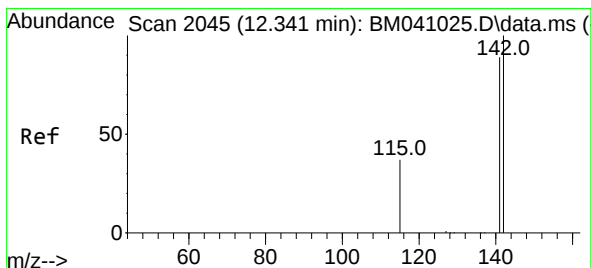
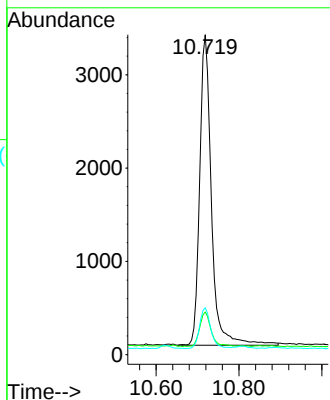
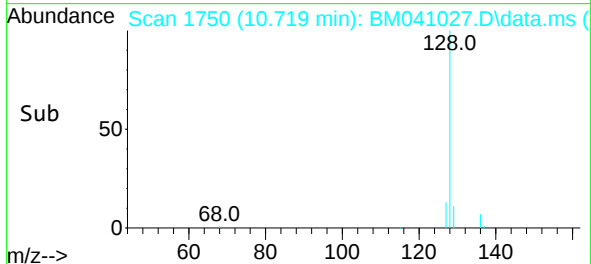
Instrument :  
BNA\_M  
ClientSampleId :  
A46R8DL



Tgt Ion:128 Resp: 654  
Ion Ratio Lower Upper  
128 100  
129 13.3 9.8 14.8  
127 14.7 11.0 16.4

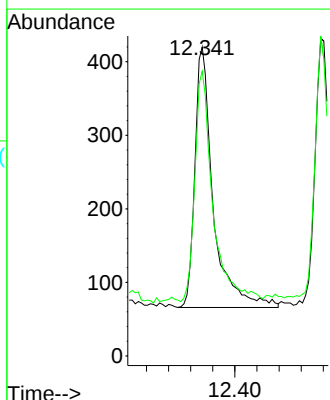
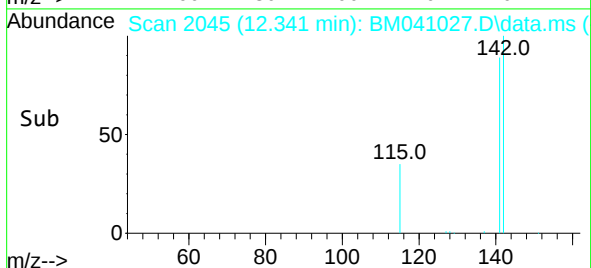
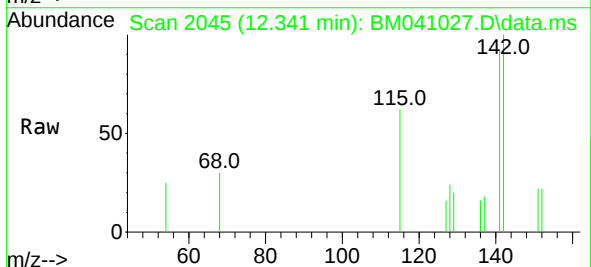
Manual Integrations  
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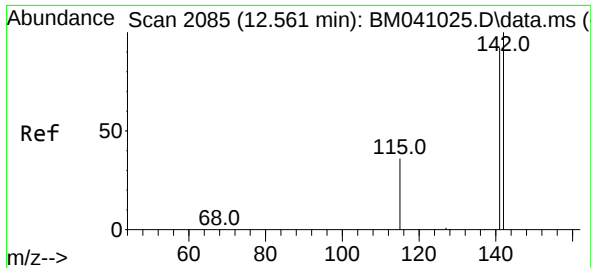
Reviewed By :Yogesh Patel 07/22/2023  
Supervised By :mohammad ahmed 07/22/2023



#7  
2-Methylnaphthalene  
Concen: 0.036 ng/ul  
RT: 12.341 min Scan# 2045  
Delta R.T. -0.000 min  
Lab File: BM041027.D  
Acq: 21 Jul 2023 21:15

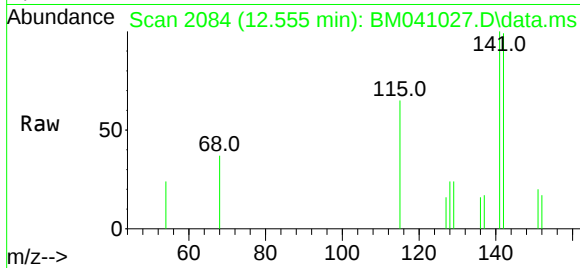
Tgt Ion:142 Resp: 816  
Ion Ratio Lower Upper  
142 100  
141 86.6 73.2 109.8





#8  
1-Methylnaphthalene  
Concen: 0.031 ng/ul  
RT: 12.555 min Scan# 2084  
Delta R.T. -0.006 min  
Lab File: BM041027.D  
Acq: 21 Jul 2023 21:15

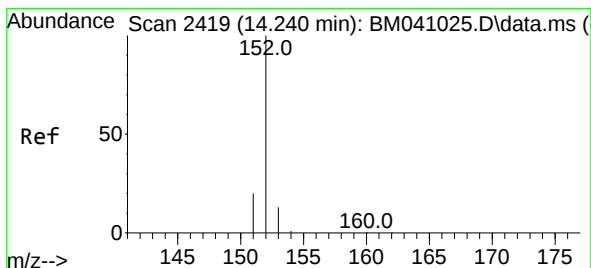
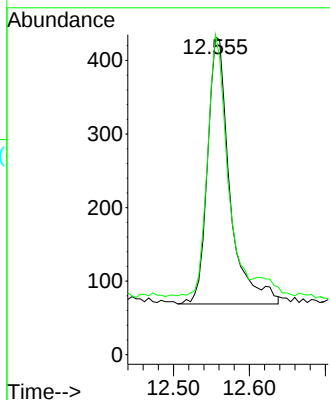
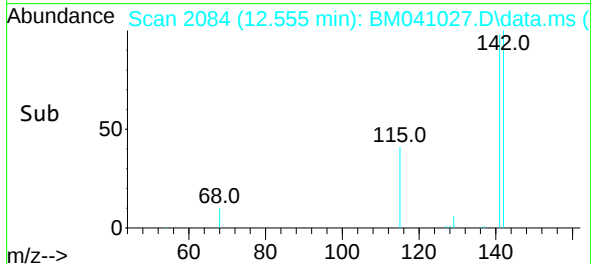
Instrument :  
BNA\_M  
ClientSampleId :  
A46R8DL



Tgt Ion:142 Resp: 740  
Ion Ratio Lower Upper  
142 100  
141 92.8 73.4 110.2

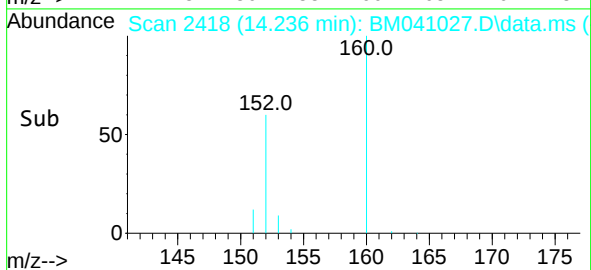
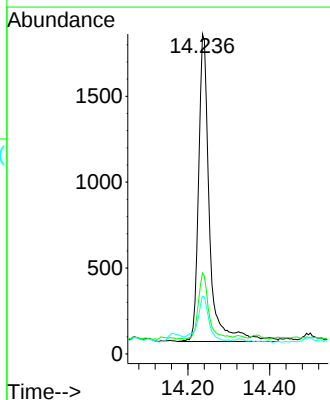
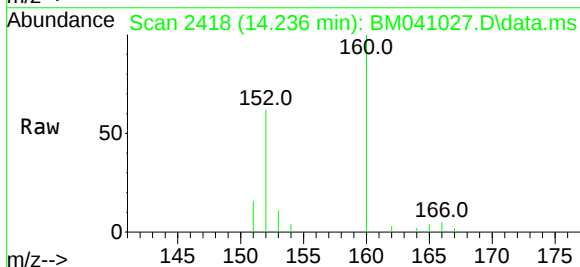
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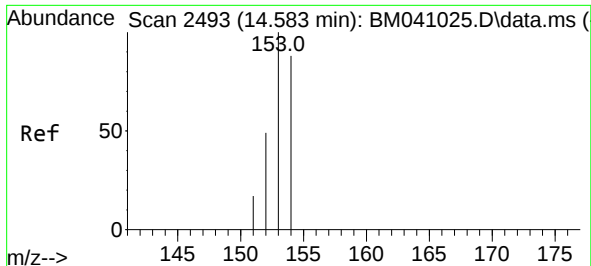
Reviewed By :Yogesh Patel 07/22/2023  
Supervised By :mohammad ahmed 07/22/2023



#10  
Acenaphthylene  
Concen: 0.105 ng/ul  
RT: 14.236 min Scan# 2418  
Delta R.T. -0.005 min  
Lab File: BM041027.D  
Acq: 21 Jul 2023 21:15

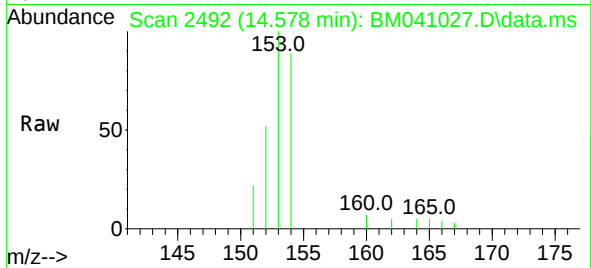
Tgt Ion:152 Resp: 3304  
Ion Ratio Lower Upper  
152 100  
151 25.3 16.8 25.2#  
153 18.0 11.6 17.4#





#11  
Acenaphthene  
Concen: 0.124 ng/ul  
RT: 14.578 min Scan# 2493  
Delta R.T. -0.005 min  
Lab File: BM041027.D  
Acq: 21 Jul 2023 21:15

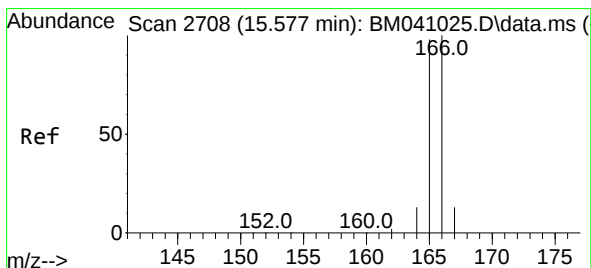
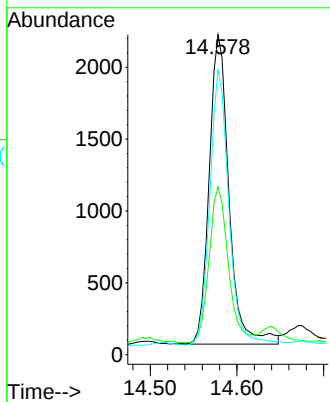
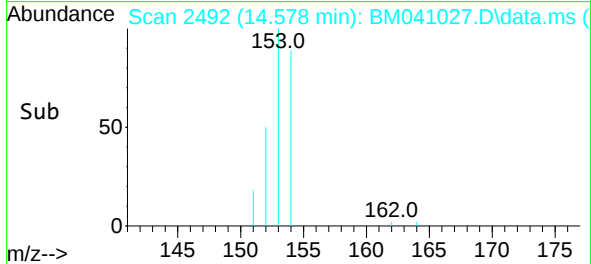
Instrument :  
BNA\_M  
ClientSampleId :  
A46R8DL



Tgt Ion:153 Resp: 342  
Ion Ratio Lower Upper  
153 100  
152 52.4 41.0 61.6  
154 89.0 68.2 102.2

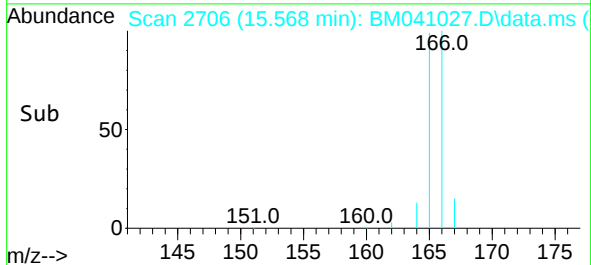
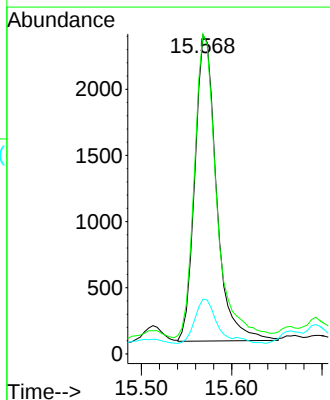
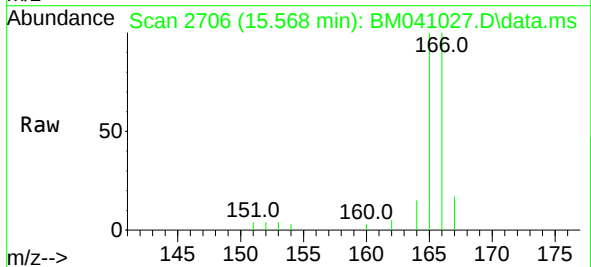
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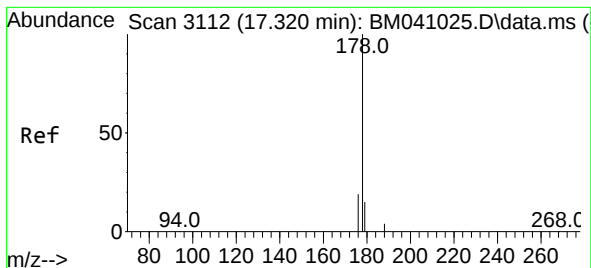
Reviewed By :Yogesh Patel 07/22/2023  
Supervised By :mohammad ahmed 07/22/2023



#12  
Fluorene  
Concen: 0.135 ng/ul  
RT: 15.568 min Scan# 2706  
Delta R.T. -0.005 min  
Lab File: BM041027.D  
Acq: 21 Jul 2023 21:15

Tgt Ion:166 Resp: 3869  
Ion Ratio Lower Upper  
166 100  
165 100.4 80.3 120.5  
167 17.2 11.7 17.5





#15

Phenanthrene

Concen: 1.664 ng/u1

RT: 17.312 min Scan# 3112

Delta R.T. -0.004 min

Lab File: BM041027.D

Acq: 21 Jul 2023 21:15

Instrument :

BNA\_M

ClientSampleId :

A46R8DL

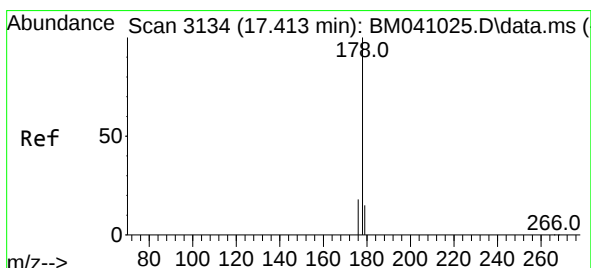
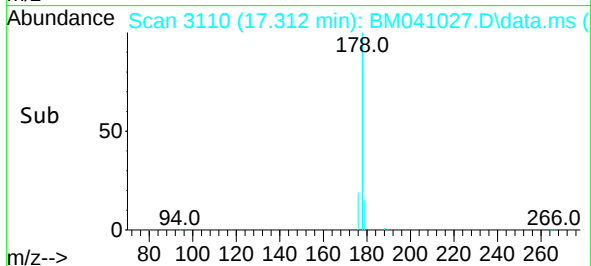
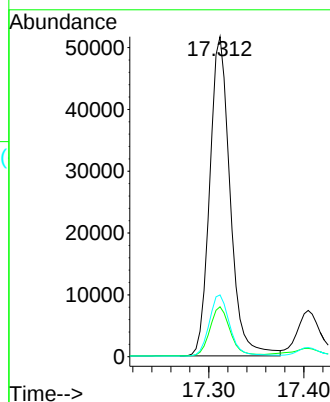
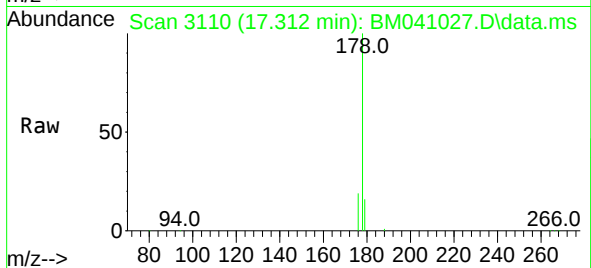
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 7728      |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 179         | 15.6  | 13.0 19.6 |
| 176         | 19.3  | 16.2 24.4 |

Manual Integrations

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Reviewed By :Yogesh Patel 07/22/2023

Supervised By :mohammad ahmed 07/22/2023



#16

Anthracene

Concen: 0.360 ng/u1

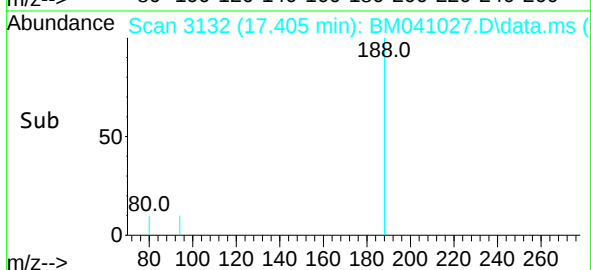
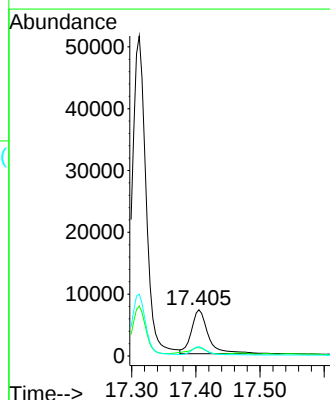
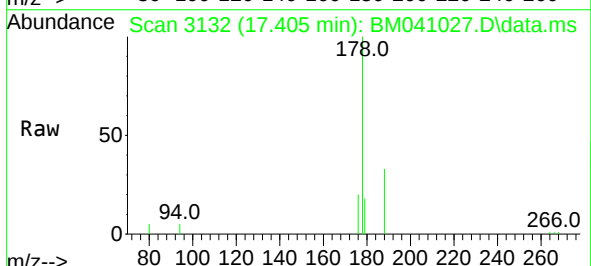
RT: 17.405 min Scan# 3132

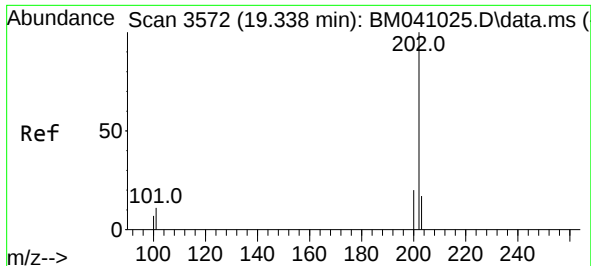
Delta R.T. -0.009 min

Lab File: BM041027.D

Acq: 21 Jul 2023 21:15

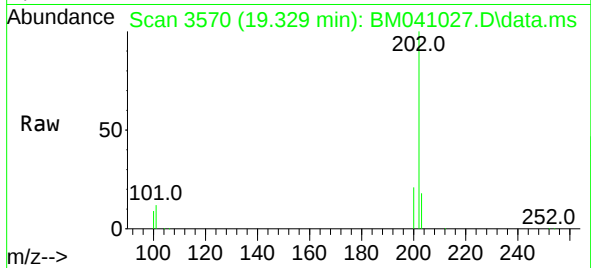
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|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 13043     |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 179         | 18.2  | 13.7 20.5 |
| 176         | 19.6  | 16.4 24.6 |





#19  
Fluoranthene  
Concen: 2.059 ng/u1  
RT: 19.329 min Scan# 3570  
Delta R.T. -0.009 min  
Lab File: BM041027.D  
Acq: 21 Jul 2023 21:15

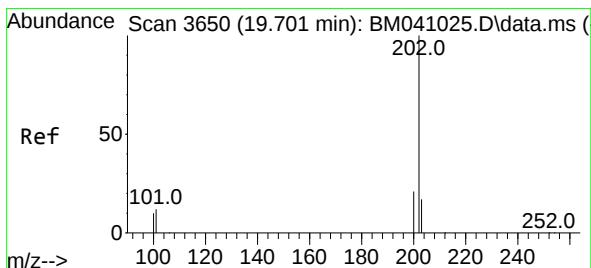
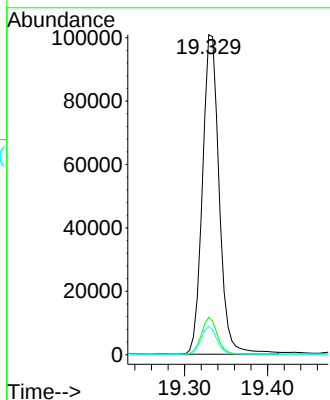
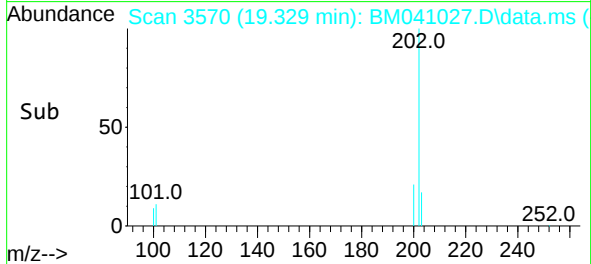
Instrument :  
BNA\_M  
ClientSampleId :  
A46R8DL



Tgt Ion:202 Resp: 141795  
Ion Ratio Lower Upper  
202 100  
101 11.7 11.0 16.4  
100 8.8 8.3 12.5

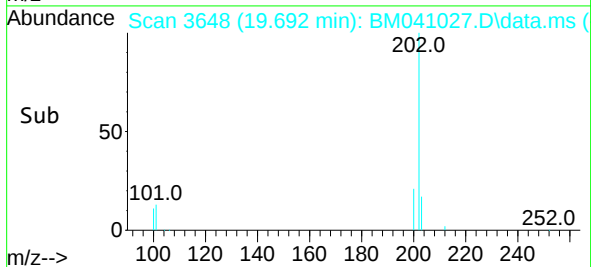
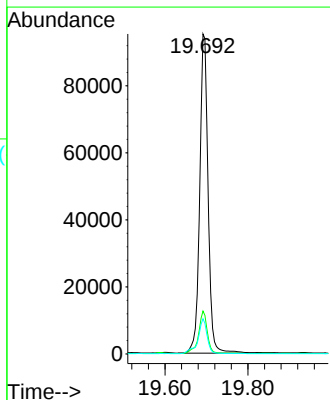
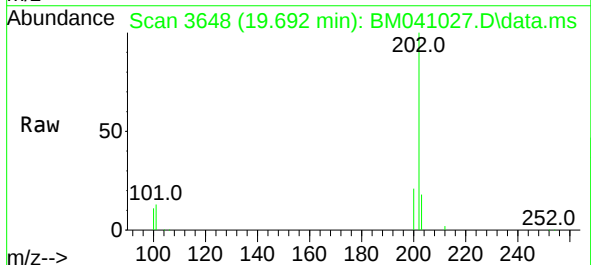
Manual Integrations  
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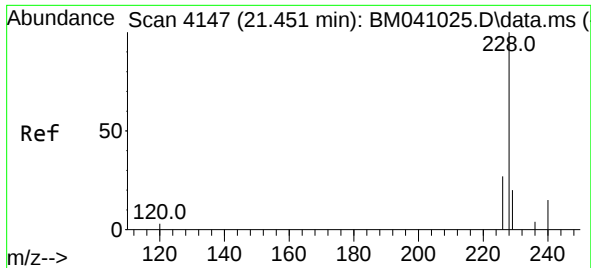
Reviewed By :Yogesh Patel 07/22/2023  
Supervised By :mohammad ahmed 07/22/2023



#20  
Pyrene  
Concen: 1.907 ng/u1  
RT: 19.692 min Scan# 3648  
Delta R.T. -0.009 min  
Lab File: BM041027.D  
Acq: 21 Jul 2023 21:15

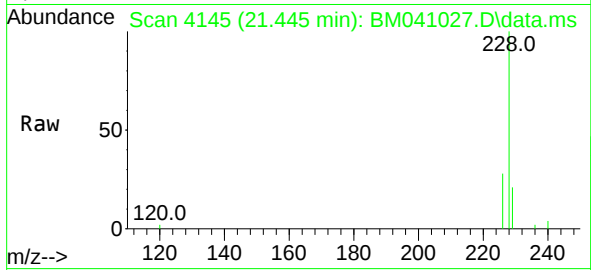
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Ion Ratio Lower Upper  
202 100  
101 13.4 12.5 18.7  
100 11.0 10.0 15.0





#21  
Benzo(a)anthracene  
Concen: 1.326 ng/ul  
RT: 21.445 min Scan# 4145  
Delta R.T. -0.006 min  
Lab File: BM041027.D  
Acq: 21 Jul 2023 21:15

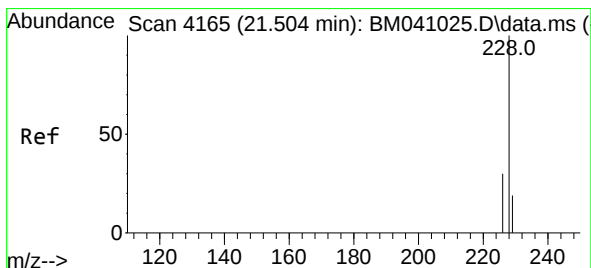
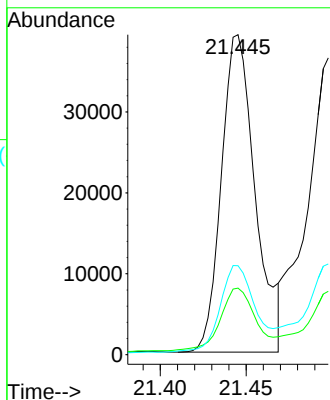
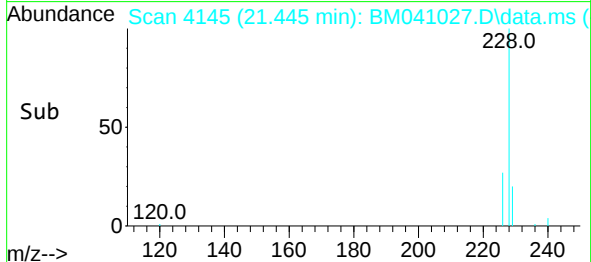
Instrument :  
BNA\_M  
ClientSampleId :  
A46R8DL



Tgt Ion:228 Resp: 5389  
Ion Ratio Lower Upper  
228 100  
229 20.8 16.2 24.4  
226 27.8 22.3 33.5

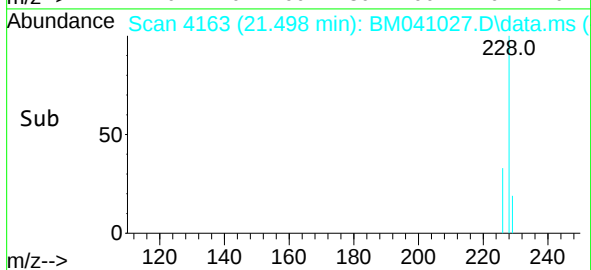
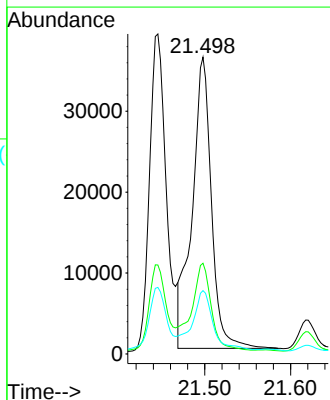
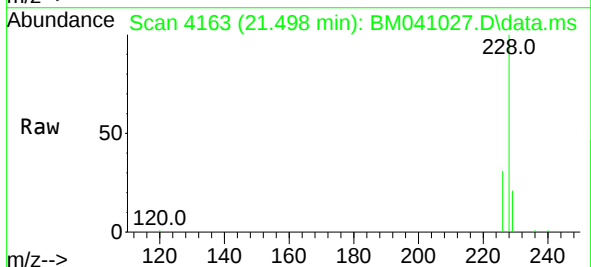
Manual Integrations  
APPROVED

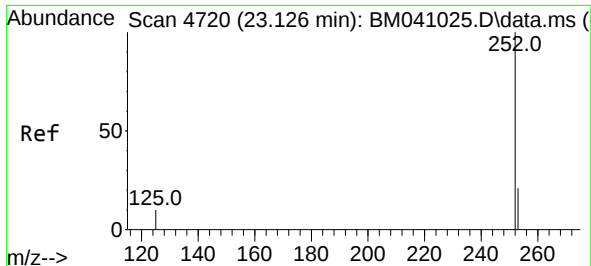
Reviewed By :Yogesh Patel 07/22/2023  
Supervised By :mohammad ahmed 07/22/2023



#22  
Chrysene  
Concen: 1.212 ng/ul  
RT: 21.498 min Scan# 4163  
Delta R.T. -0.006 min  
Lab File: BM041027.D  
Acq: 21 Jul 2023 21:15

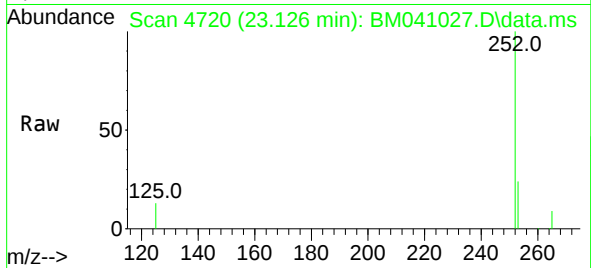
Tgt Ion:228 Resp: 56319  
Ion Ratio Lower Upper  
228 100  
226 30.6 24.6 37.0  
229 21.4 16.1 24.1





#24  
Benzo(b)fluoranthene  
Concen: 1.367 ng/ul  
RT: 23.126 min Scan# 4720  
Delta R.T. -0.003 min  
Lab File: BM041027.D  
Acq: 21 Jul 2023 21:15

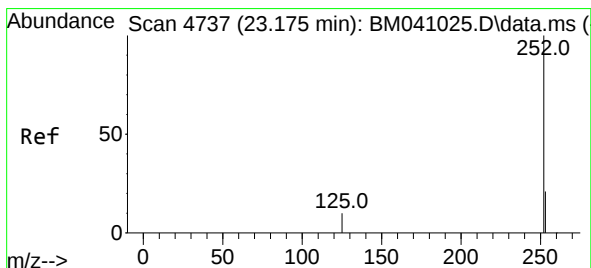
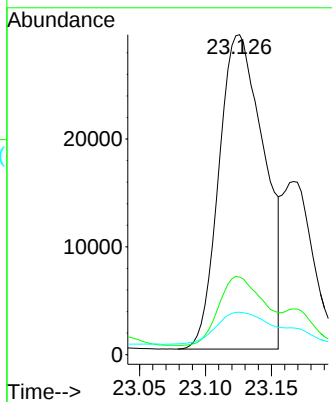
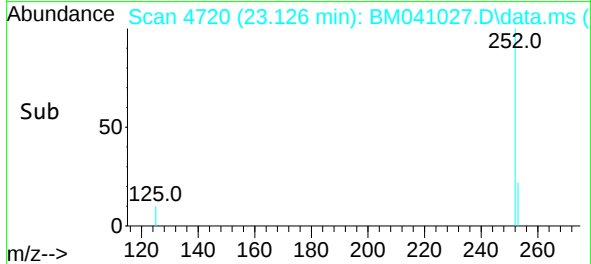
Instrument :  
BNA\_M  
ClientSampleId :  
A46R8DL



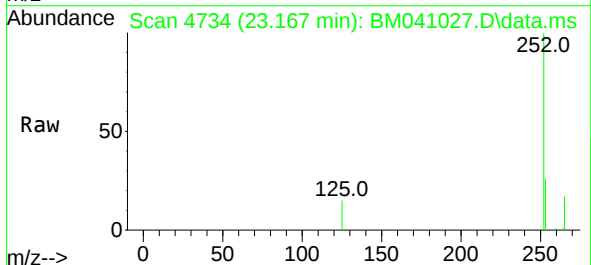
Tgt Ion:252 Resp: 69439  
Ion Ratio Lower Upper  
252 100  
253 24.2 0.0 57.4  
125 13.2 0.0 45.2

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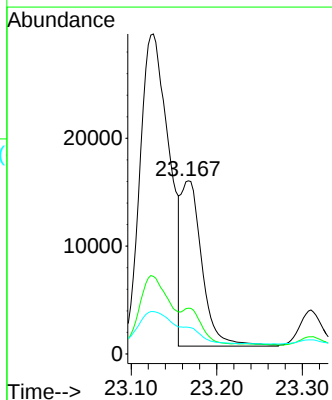
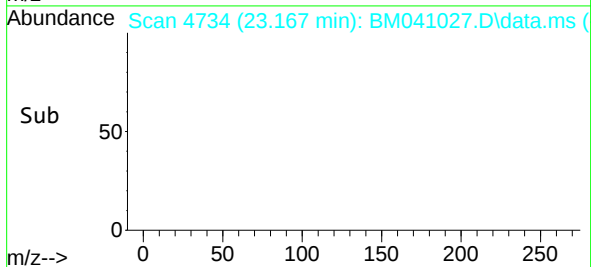
Reviewed By :Yogesh Patel 07/22/2023  
Supervised By :mohammad ahmed 07/22/2023

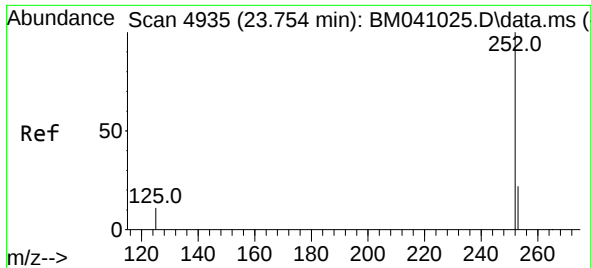


#25  
Benzo(k)fluoranthene  
Concen: 0.547 ng/ul m  
RT: 23.167 min Scan# 4734  
Delta R.T. -0.012 min  
Lab File: BM041027.D  
Acq: 21 Jul 2023 21:15



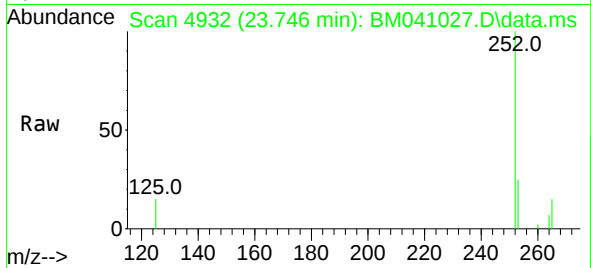
Tgt Ion:252 Resp: 26418  
Ion Ratio Lower Upper  
252 100  
253 26.4 23.3 34.9  
125 15.4 18.2 27.2#





#26  
Benzo(a)pyrene  
Concen: 0.939 ng/ul  
RT: 23.746 min Scan# 4935  
Delta R.T. -0.012 min  
Lab File: BM041027.D  
Acq: 21 Jul 2023 21:15

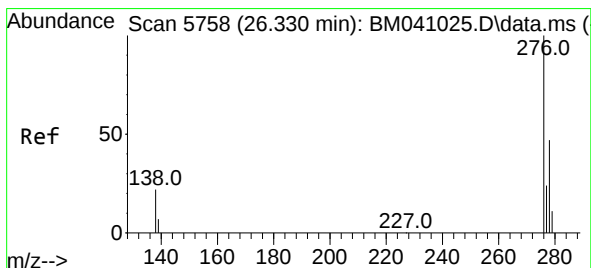
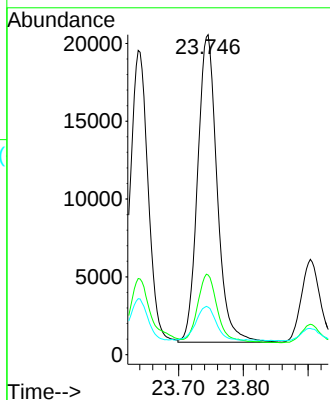
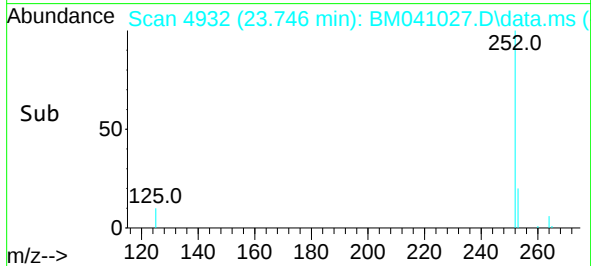
Instrument :  
BNA\_M  
ClientSampleId :  
A46R8DL



Tgt Ion:252 Resp: 41217  
Ion Ratio Lower Upper  
252 100  
253 24.9 28.2 42.2#  
125 14.9 25.2 37.8#

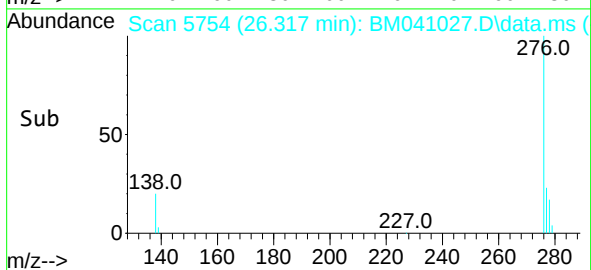
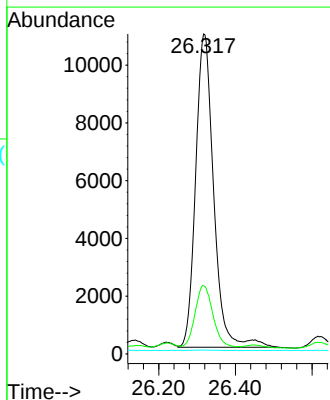
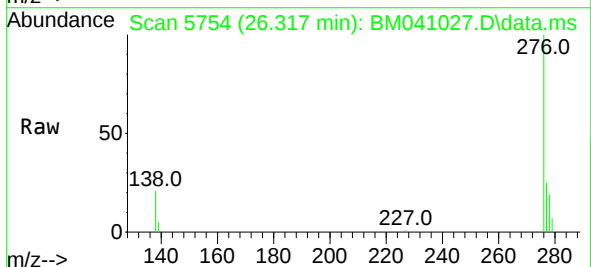
Manual Integrations  
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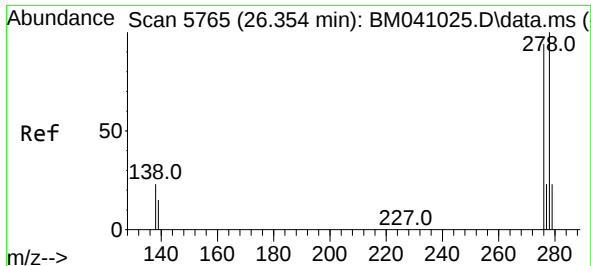
Reviewed By :Yogesh Patel 07/22/2023  
Supervised By :mohammad ahmed 07/22/2023



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.610 ng/ul  
RT: 26.317 min Scan# 5754  
Delta R.T. -0.020 min  
Lab File: BM041027.D  
Acq: 21 Jul 2023 21:15

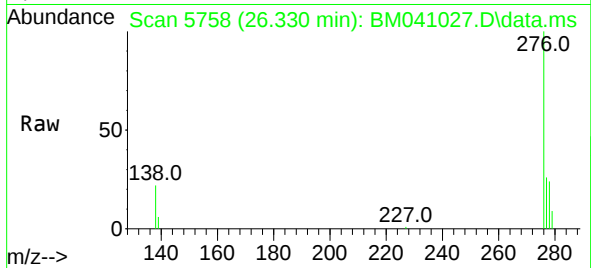
Tgt Ion:276 Resp: 35512  
Ion Ratio Lower Upper  
276 100  
138 19.6 22.3 33.5#  
227 0.1 0.0 0.0#





#28  
Dibenzo(a,h)anthracene  
Concen: 0.175 ng/ul  
RT: 26.330 min Scan# 5758  
Delta R.T. -0.024 min  
Lab File: BM041027.D  
Acq: 21 Jul 2023 21:15

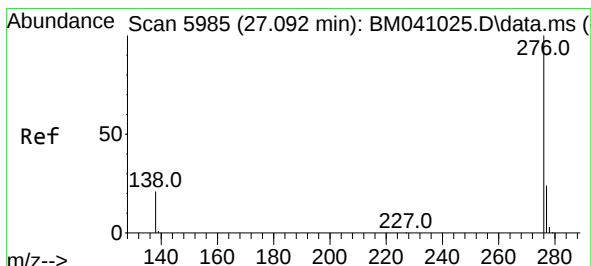
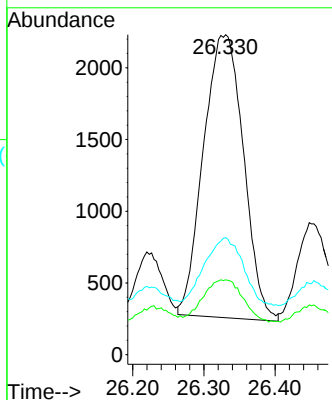
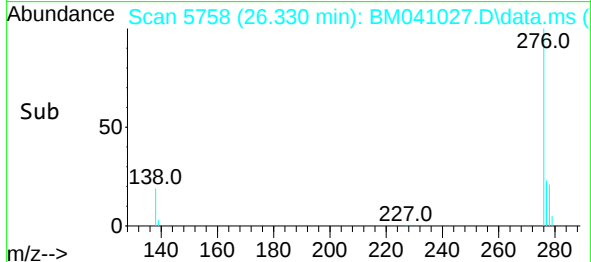
Instrument :  
BNA\_M  
ClientSampleId :  
A46R8DL



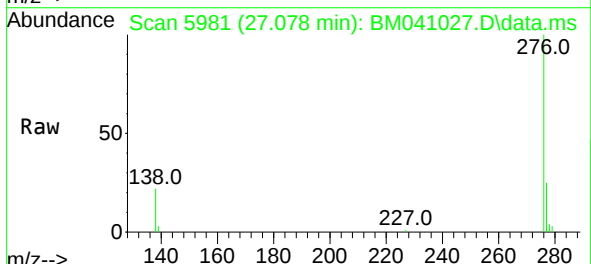
Tgt Ion:278 Resp: 7709  
Ion Ratio Lower Upper  
278 100  
139 23.4 19.2 28.8  
279 36.6 27.0 40.6

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 07/22/2023  
Supervised By :mohammad ahmed 07/22/2023



#29  
Benzo(g,h,i)perylene  
Concen: 0.677 ng/ul  
RT: 27.078 min Scan# 5981  
Delta R.T. -0.014 min  
Lab File: BM041027.D  
Acq: 21 Jul 2023 21:15



Tgt Ion:276 Resp: 36416  
Ion Ratio Lower Upper  
276 100  
138 22.0 22.6 34.0#  
277 24.8 21.2 31.8

