

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM071524\  
 Data File : BM046626.D  
 Acq On : 16 Jul 2024 10:09  
 Operator : MA/JU  
 Sample : P3101-02  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4CD6

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 07/16/2024  
 Supervised By :mohammad ahmed 07/18/2024

Quant Time: Jul 16 10:53:11 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM071024.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 15 08:57:27 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|--------|--------|----------|
| -----                       |        |      |          |        |        |          |
| Internal Standards          |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.501  | 152  | 3428     | 0.400  | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.260 | 136  | 9580     | 0.400  | ng/ul  | # 0.00   |
| 9) Acenaphthene-d10         | 14.146 | 164  | 6701     | 0.400  | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 16.896 | 188  | 15662m   | 0.400  | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.108 | 240  | 9403     | 0.400  | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 23.247 | 264  | 11479    | 0.400  | ng/ul  | 0.00     |
|                             |        |      |          |        |        |          |
| System Monitoring Compounds |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8           | 3.113  | 96   | 8972     | 3.185  | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.860 | 152  | 4265     | 0.276  | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 18.937 | 212  | 10528    | 0.368  | ng/ul  | 0.00     |
|                             |        |      |          |        |        |          |
| Target Compounds            |        |      |          |        |        |          |
|                             |        |      |          |        | Qvalue |          |
| 5) Naphthalene              | 10.309 | 128  | 11573    | 0.475  | ng/ul  | 97       |
| 7) 2-Methylnaphthalene      | 11.937 | 142  | 5631     | 0.329  | ng/ul  | 99       |
| 8) 1-Methylnaphthalene      | 12.157 | 142  | 4347     | 0.249  | ng/ul  | 100      |
| 10) Acenaphthylene          | 13.864 | 152  | 40240    | 1.319  | ng/ul  | 96       |
| 11) Acenaphthene            | 14.206 | 153  | 17985    | 0.880  | ng/ul  | 97       |
| 12) Fluorene                | 15.205 | 166  | 24096    | 0.953  | ng/ul  | 99       |
| 14) Pentachlorophenol       | 16.554 | 266  | 498      | 0.063  | ng/ul  | 97       |
| 15) Phenanthrene            | 16.938 | 178  | 535995   | 11.993 | ng/ul  | 98       |
| 16) Anthracene              | 17.031 | 178  | 106409   | 2.440  | ng/ul  | 97       |
| 19) Fluoranthene            | 18.969 | 202  | 1098357  | 28.438 | ng/ul  | 99       |
| 20) Pyrene                  | 19.332 | 202  | 734809   | 17.572 | ng/ul  | 99       |
| 21) Benzo(a)anthracene      | 21.090 | 228  | 431107   | 10.364 | ng/ul  | 97       |
| 22) Chrysene                | 21.143 | 228  | 474728   | 11.795 | ng/ul  | 99       |
| 24) Benzo(b)fluoranthene    | 22.615 | 252  | 689200m  | 15.032 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.653 | 252  | 219168m  | 4.869  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.156 | 252  | 235688   | 6.246  | ng/ul# | 88       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.369 | 276  | 246783   | 4.297  | ng/ul# | 100      |
| 28) Dibenzo(a,h)anthracene  | 25.383 | 278  | 78844    | 1.734  | ng/ul  | 98       |
| 29) Benzo(g,h,i)perylene    | 26.013 | 276  | 35887    | 0.783  | ng/ul# | 95       |
| -----                       |        |      |          |        |        |          |

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

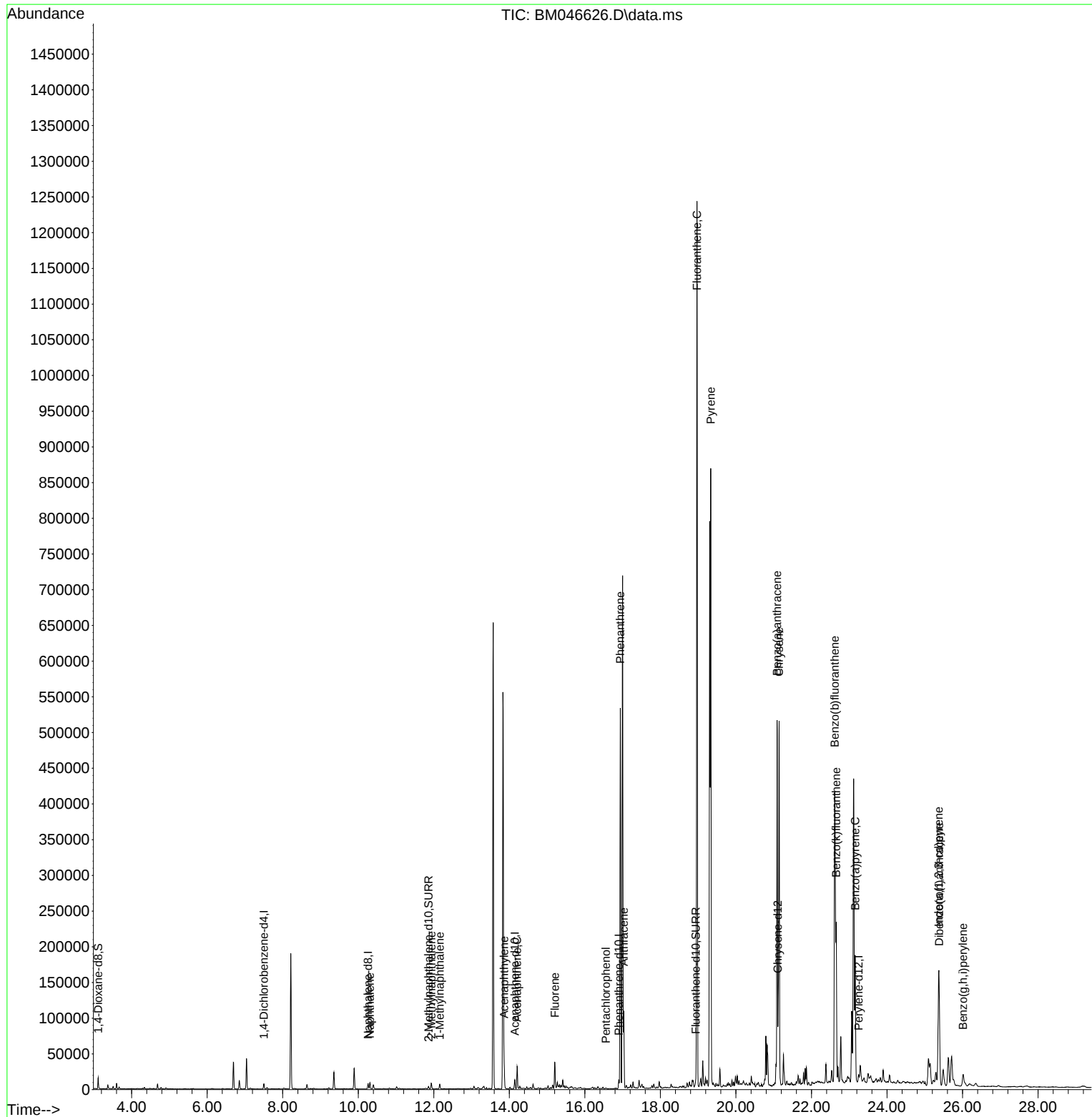
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM071524\  
Data File : BM046626.D  
Acq On : 16 Jul 2024 10:09  
Operator : MA/JU  
Sample : P3101-02  
Misc :  
ALS Vial : 37 Sample Multiplier: 1

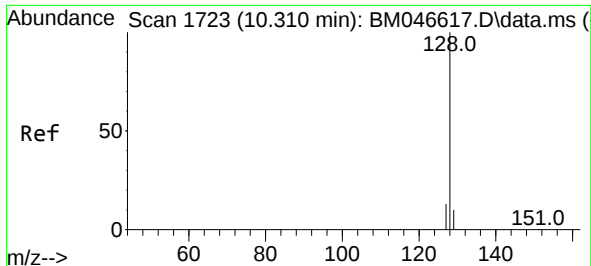
Instrument :  
BNA\_M  
ClientSampleId :  
A4CD6

Quant Time: Jul 16 10:53:11 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM071024.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jul 15 08:57:27 2024  
Response via : Initial Calibration

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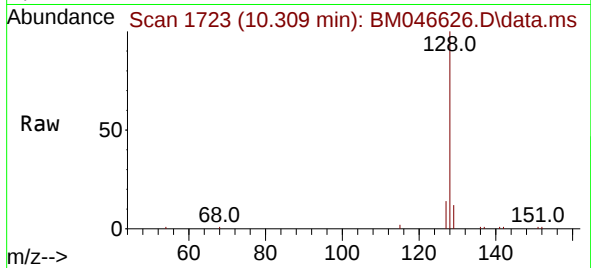
Reviewed By :Jagrut Upadhyay 07/16/2024  
Supervised By :mohammad ahmed 07/18/2024





#5  
Naphthalene  
Concen: 0.475 ng/ul  
RT: 10.309 min Scan# 1723  
Delta R.T. -0.006 min  
Lab File: BM046626.D  
Acq: 16 Jul 2024 10:09

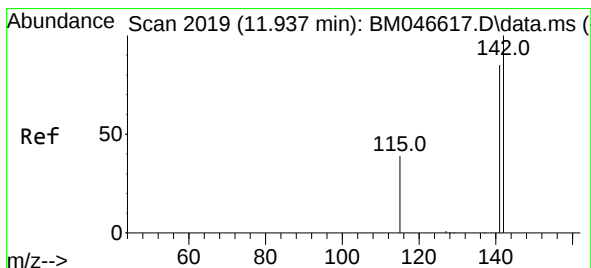
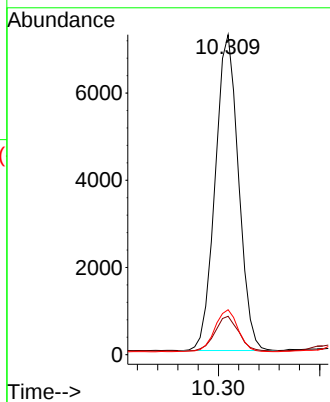
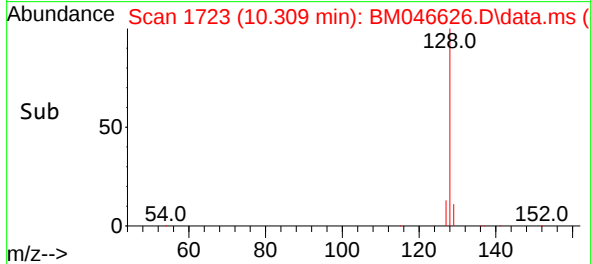
Instrument :  
BNA\_M  
ClientSampleId :  
A4CD6



Tgt Ion:128 Resp: 1157  
Ion Ratio Lower Upper  
128 100  
129 12.0 10.3 15.5  
127 14.0 12.2 18.4

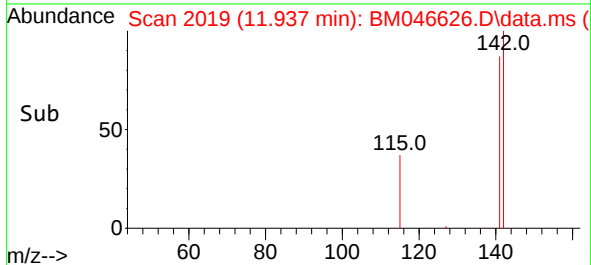
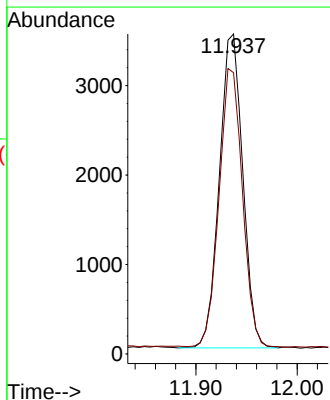
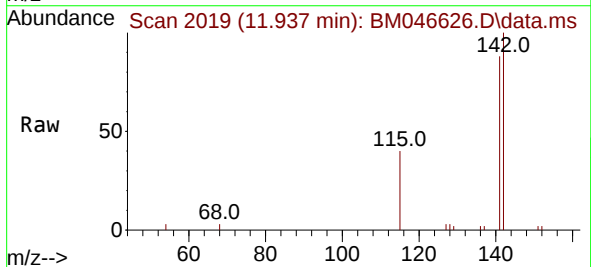
Manual Integrations  
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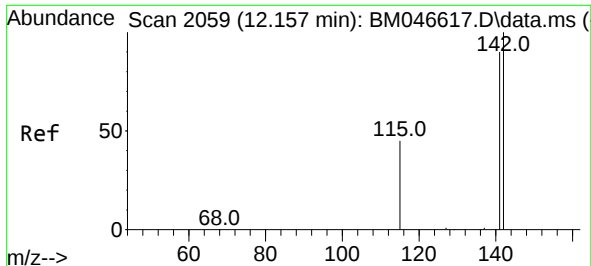
Reviewed By :Jagrut Upadhyay 07/16/2024  
Supervised By :mohammad ahmed 07/18/2024



#7  
2-Methylnaphthalene  
Concen: 0.329 ng/ul  
RT: 11.937 min Scan# 2019  
Delta R.T. -0.006 min  
Lab File: BM046626.D  
Acq: 16 Jul 2024 10:09

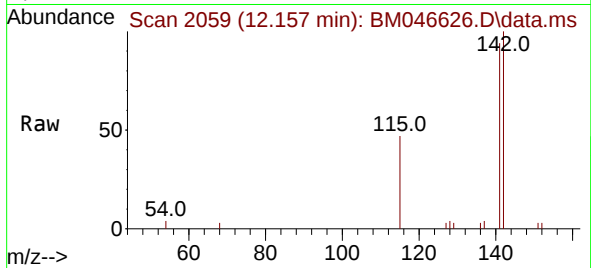
Tgt Ion:142 Resp: 5631  
Ion Ratio Lower Upper  
142 100  
141 88.7 70.3 105.5





#8  
1-Methylnaphthalene  
Concen: 0.249 ng/ul  
RT: 12.157 min Scan# 2059  
Delta R.T. -0.006 min  
Lab File: BM046626.D  
Acq: 16 Jul 2024 10:09

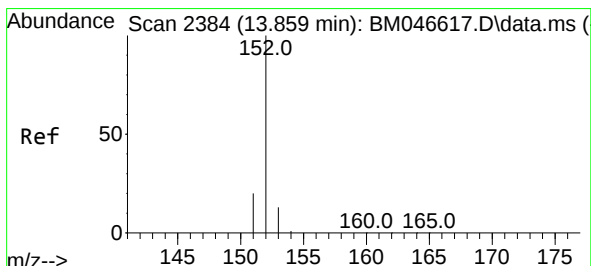
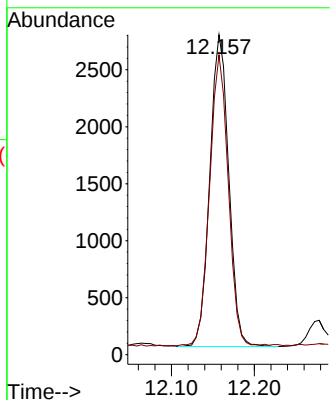
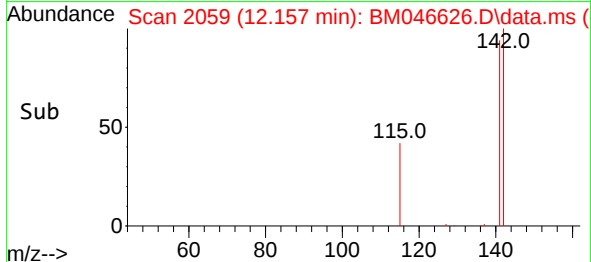
Instrument :  
BNA\_M  
ClientSampleId :  
A4CD6



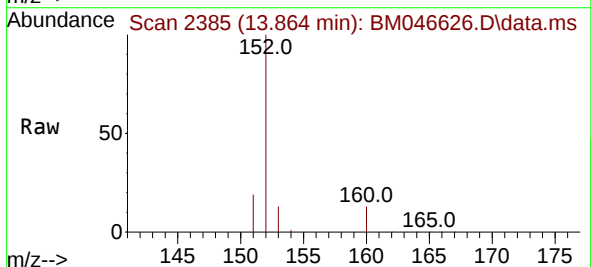
Tgt Ion:142 Resp: 434  
Ion Ratio Lower Upper  
142 100  
141 92.6 73.9 110.9

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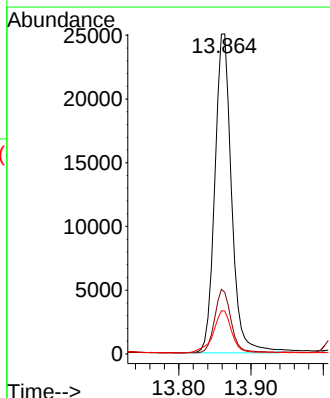
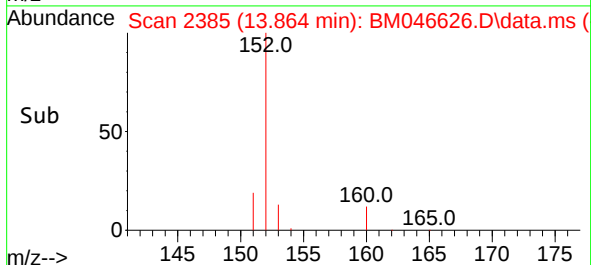
Reviewed By :Jagrut Upadhyay 07/16/2024  
Supervised By :mohammad ahmed 07/18/2024

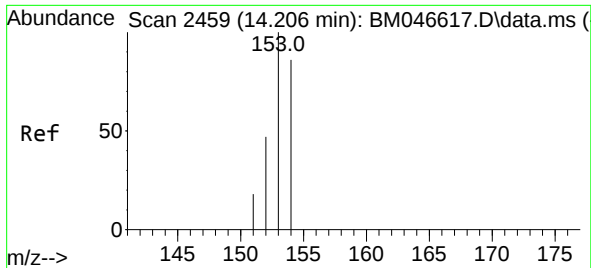


#10  
Acenaphthylene  
Concen: 1.319 ng/ul  
RT: 13.864 min Scan# 2385  
Delta R.T. -0.001 min  
Lab File: BM046626.D  
Acq: 16 Jul 2024 10:09



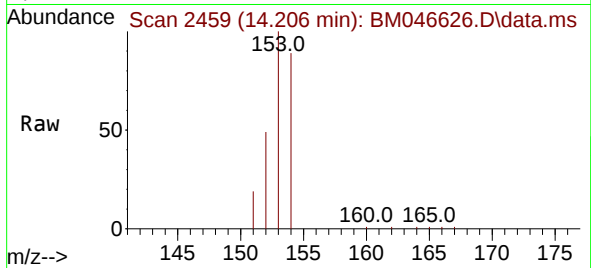
Tgt Ion:152 Resp: 40240  
Ion Ratio Lower Upper  
152 100  
151 19.3 16.4 24.6  
153 13.4 12.4 18.6





#11  
Acenaphthene  
Concen: 0.880 ng/ul  
RT: 14.206 min Scan# 2459  
Delta R.T. -0.005 min  
Lab File: BM046626.D  
Acq: 16 Jul 2024 10:09

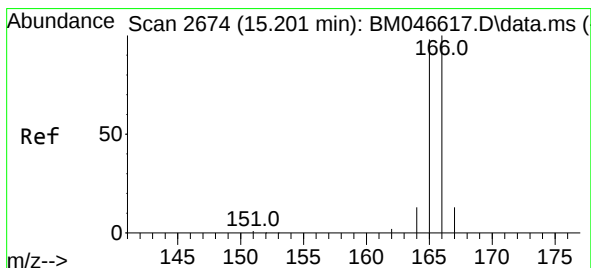
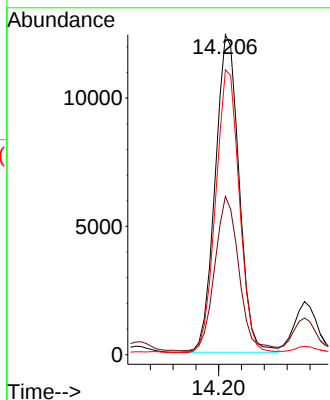
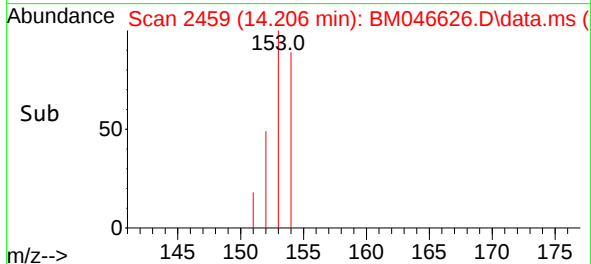
Instrument :  
BNA\_M  
ClientSampleId :  
A4CD6



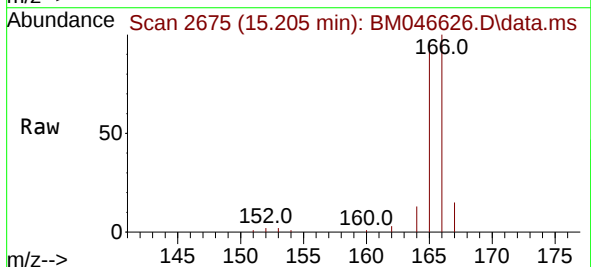
Tgt Ion:153 Resp: 17985  
Ion Ratio Lower Upper  
153 100  
152 49.5 43.0 64.6  
154 89.0 69.9 104.9

Manual Integrations  
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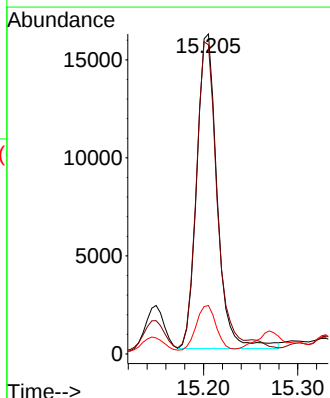
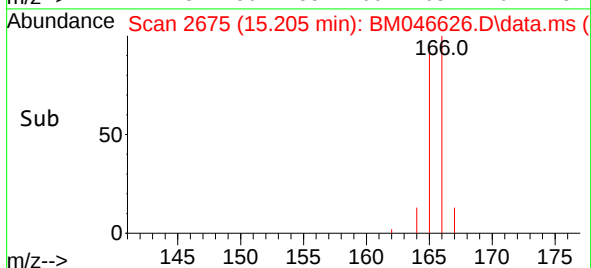
Reviewed By :Jagrut Upadhyay 07/16/2024  
Supervised By :mohammad ahmed 07/18/2024

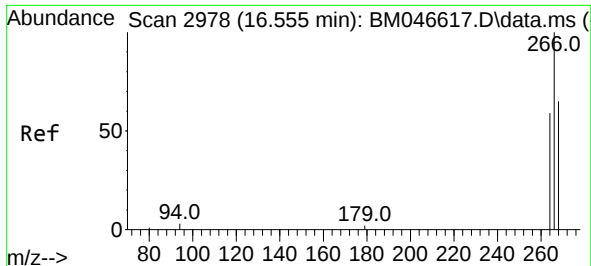


#12  
Fluorene  
Concen: 0.953 ng/ul  
RT: 15.205 min Scan# 2675  
Delta R.T. -0.001 min  
Lab File: BM046626.D  
Acq: 16 Jul 2024 10:09



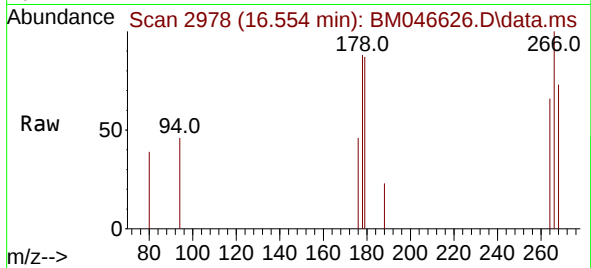
Tgt Ion:166 Resp: 24096  
Ion Ratio Lower Upper  
166 100  
165 96.6 76.1 114.1  
167 15.1 12.5 18.7





#14  
Pentachlorophenol  
Concen: 0.063 ng/ul  
RT: 16.554 min Scan# 2978  
Delta R.T. -0.001 min  
Lab File: BM046626.D  
Acq: 16 Jul 2024 10:09

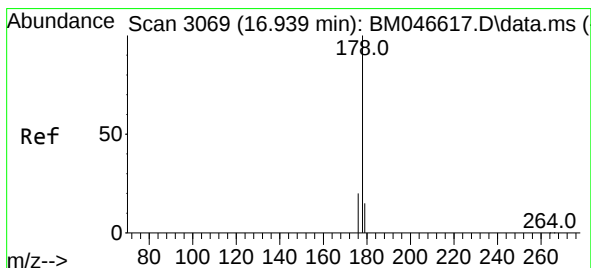
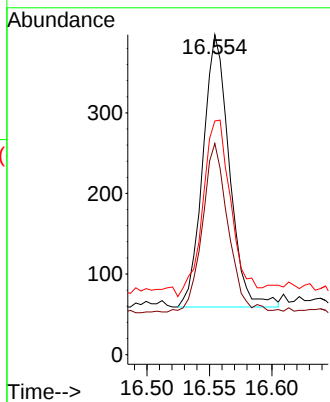
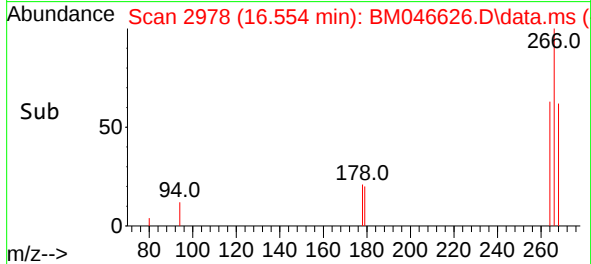
Instrument :  
BNA\_M  
ClientSampleId :  
A4CD6



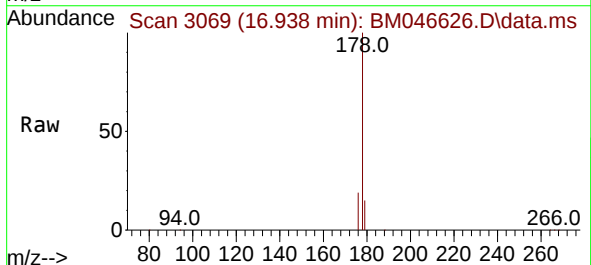
Tgt Ion:266 Resp: 498  
Ion Ratio Lower Upper  
266 100  
264 61.2 50.1 75.1  
268 69.1 52.5 78.7

Manual Integrations  
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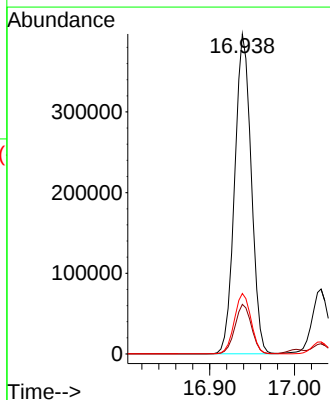
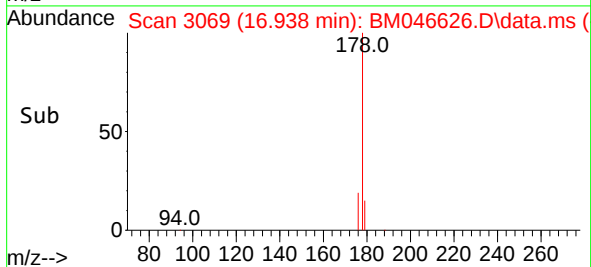
Reviewed By :Jagrut Upadhyay 07/16/2024  
Supervised By :mohammad ahmed 07/18/2024

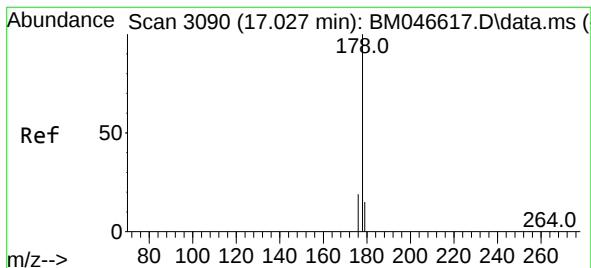


#15  
Phenanthrene  
Concen: 11.993 ng/ul  
RT: 16.938 min Scan# 3069  
Delta R.T. -0.005 min  
Lab File: BM046626.D  
Acq: 16 Jul 2024 10:09



Tgt Ion:178 Resp: 535995  
Ion Ratio Lower Upper  
178 100  
179 15.5 13.1 19.7  
176 18.9 16.0 24.0





#16

Anthracene

Concen: 2.440 ng/ul

RT: 17.031 min Scan# 3090

Delta R.T. -0.001 min

Lab File: BM046626.D

Acq: 16 Jul 2024 10:09

Instrument :

BNA\_M

ClientSampleId :

A4CD6

Tgt Ion:178 Resp: 106409

Ion Ratio Lower Upper

178 100

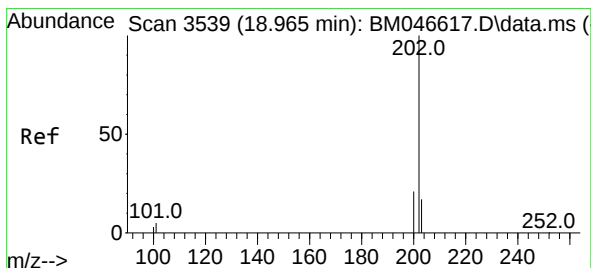
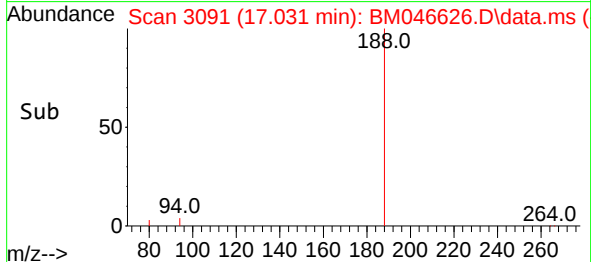
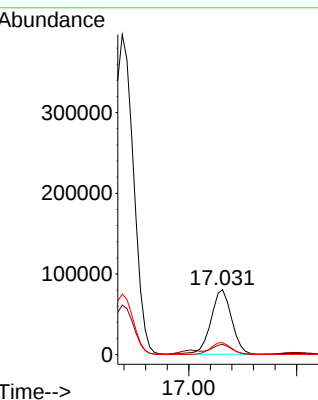
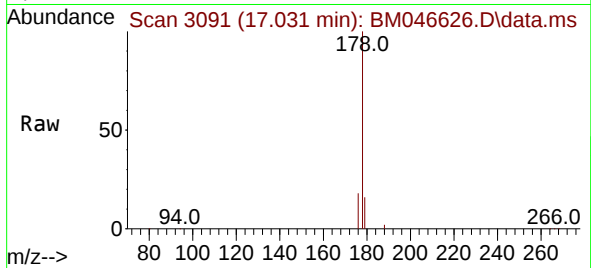
179 15.7 13.5 20.3

176 18.4 15.7 23.5

Manual Integrations

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Reviewed By :Jagrut Upadhyay 07/16/2024  
Supervised By :mohammad ahmed 07/18/2024



#19

Fluoranthene

Concen: 28.438 ng/ul

RT: 18.969 min Scan# 3540

Delta R.T. -0.001 min

Lab File: BM046626.D

Acq: 16 Jul 2024 10:09

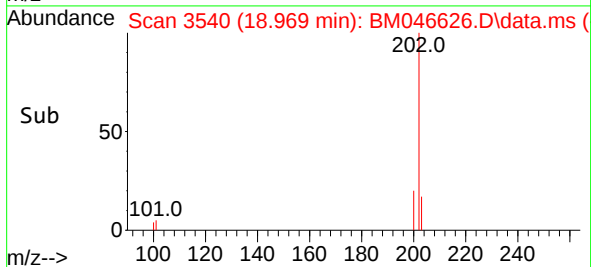
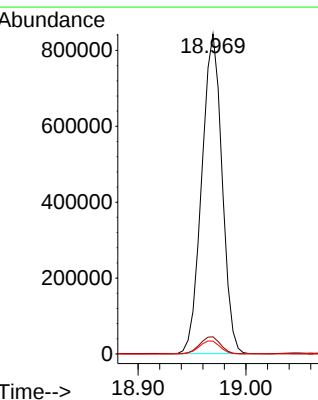
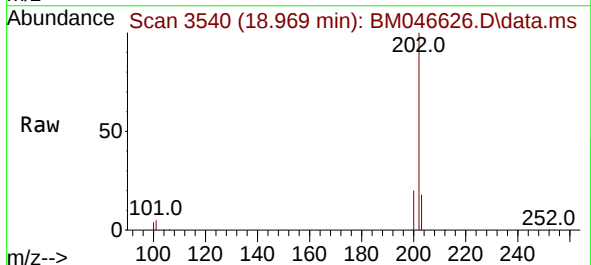
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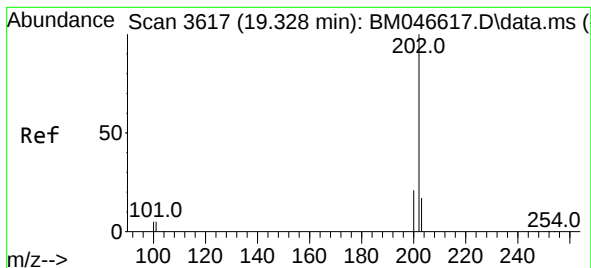
Ion Ratio Lower Upper

202 100

101 5.3 4.6 6.8

100 4.0 3.0 4.6





#20

Pyrene

Concen: 17.572 ng/ul

RT: 19.332 min Scan# 30

Delta R.T. -0.001 min

Lab File: BM046626.D

Acq: 16 Jul 2024 10:09

Instrument :

BNA\_M

ClientSampleId :

A4CD6

Tgt Ion:202 Resp: 734809

Ion Ratio Lower Upper

202 100

101 6.2 5.1 7.7

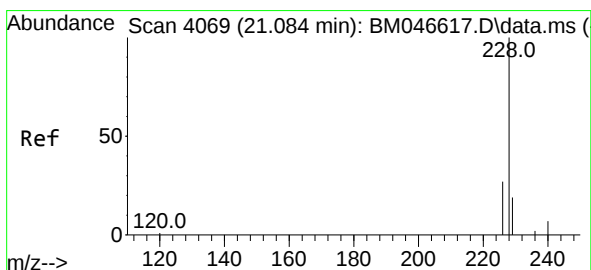
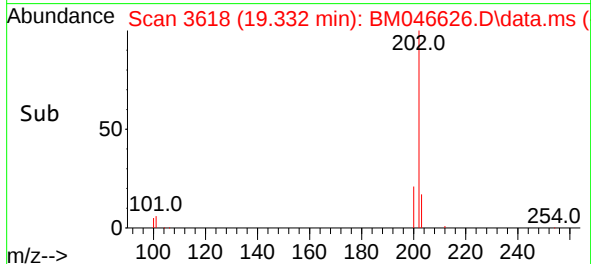
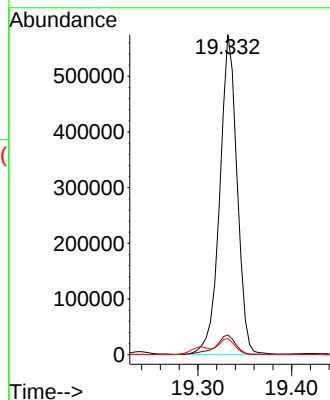
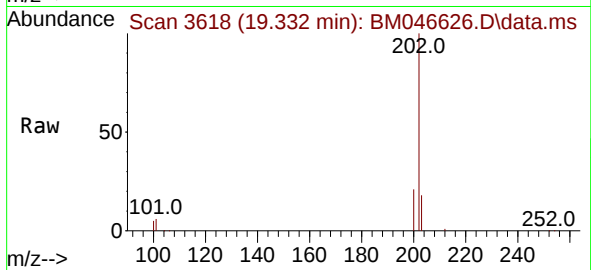
100 5.0 3.8 5.6

Manual Integrations

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Supervised By :mohammad ahmed 07/18/2024



#21

Benzo(a)anthracene

Concen: 10.364 ng/ul

RT: 21.090 min Scan# 4071

Delta R.T. 0.002 min

Lab File: BM046626.D

Acq: 16 Jul 2024 10:09

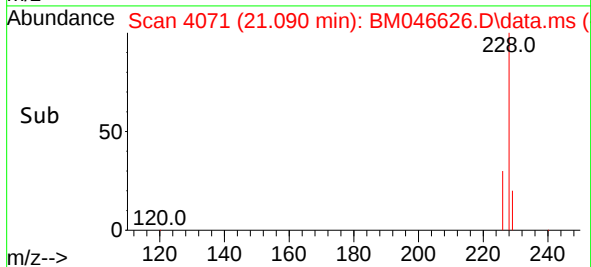
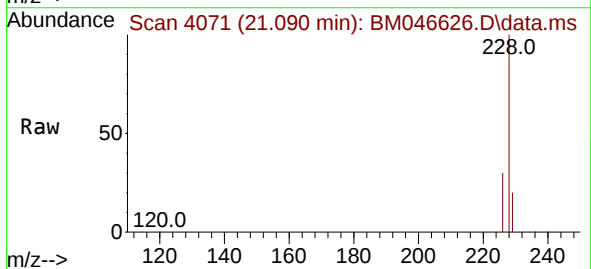
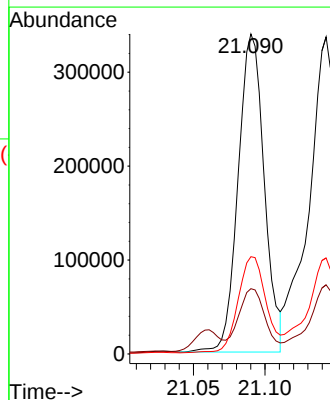
Tgt Ion:228 Resp: 431107

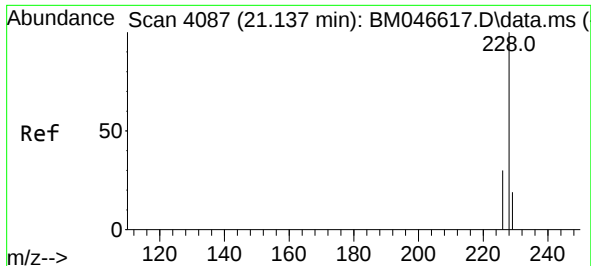
Ion Ratio Lower Upper

228 100

229 20.4 16.5 24.7

226 30.4 22.5 33.7





#22

Chrysene

Concen: 11.795 ng/ul

RT: 21.143 min Scan# 4089

Delta R.T. 0.002 min

Lab File: BM046626.D

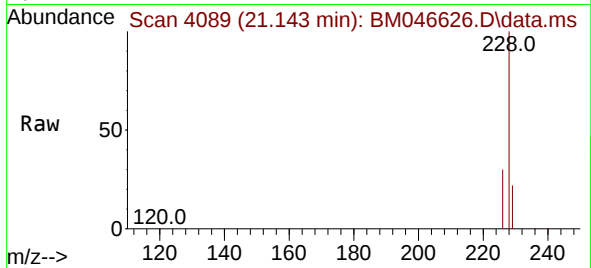
Acq: 16 Jul 2024 10:09

Instrument :

BNA\_M

ClientSampleId :

A4CD6

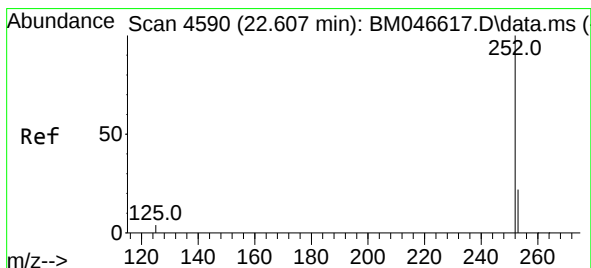
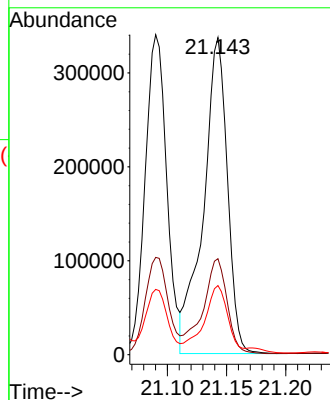
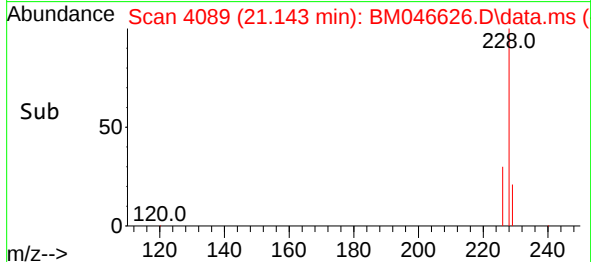


|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 474728 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.3  | 24.3  | 36.5   |
| 229       | 21.8  | 16.4  | 24.6   |

Manual Integrations

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Reviewed By :Jagrut Upadhyay 07/16/2024  
Supervised By :mohammad ahmed 07/18/2024



#24

Benzo(b)fluoranthene

Concen: 15.032 ng/ul m

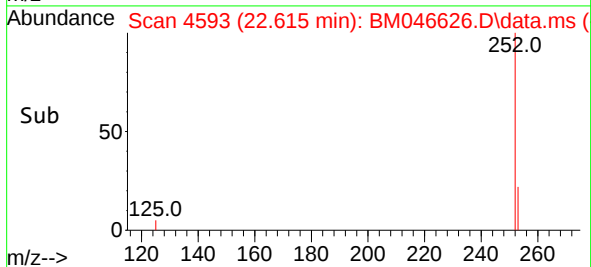
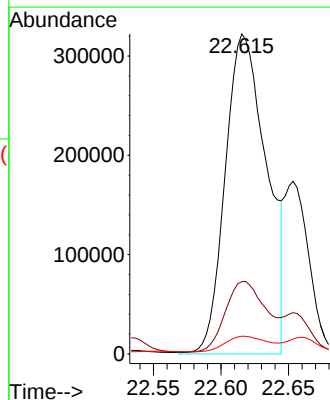
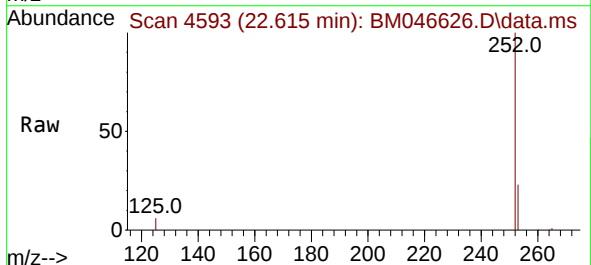
RT: 22.615 min Scan# 4593

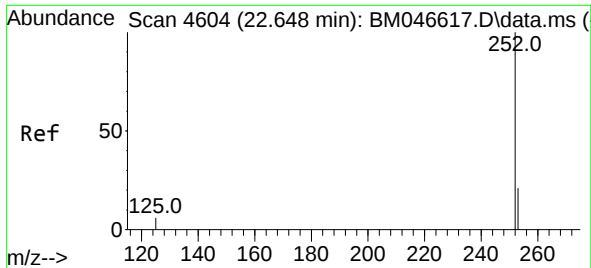
Delta R.T. 0.005 min

Lab File: BM046626.D

Acq: 16 Jul 2024 10:09

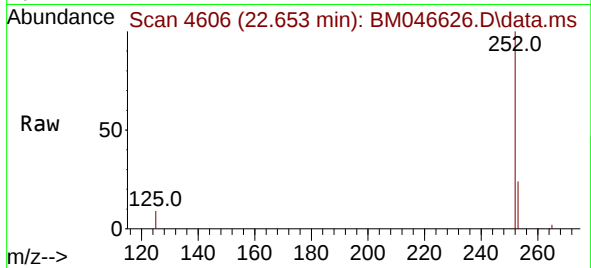
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 689200 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.6  | 0.0   | 56.2   |
| 125       | 5.6   | 0.0   | 17.8   |





#25  
Benzo(k)fluoranthene  
Concen: 4.869 ng/ul m  
RT: 22.653 min Scan# 4606  
Delta R.T. 0.002 min  
Lab File: BM046626.D  
Acq: 16 Jul 2024 10:09

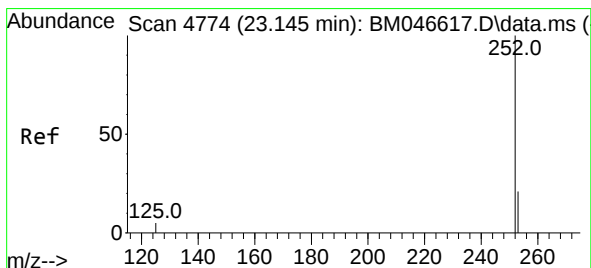
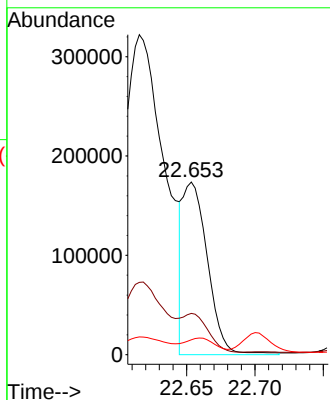
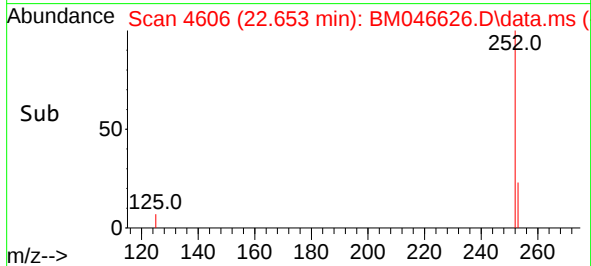
Instrument :  
BNA\_M  
ClientSampleId :  
A4CD6



Tgt Ion:252 Resp: 219168  
Ion Ratio Lower Upper  
252 100  
253 23.9 22.4 33.6  
125 8.6 7.0 10.4

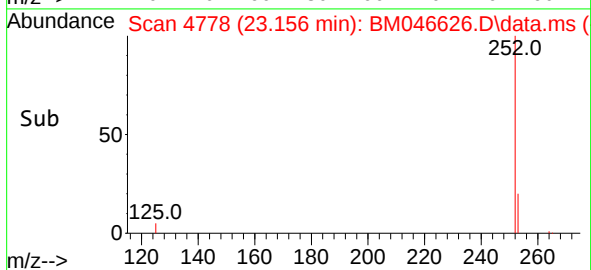
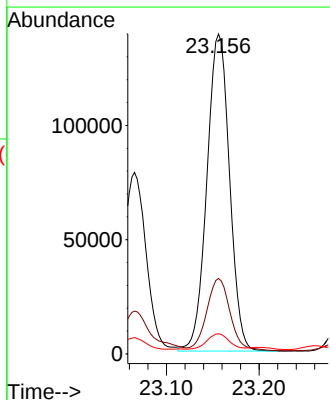
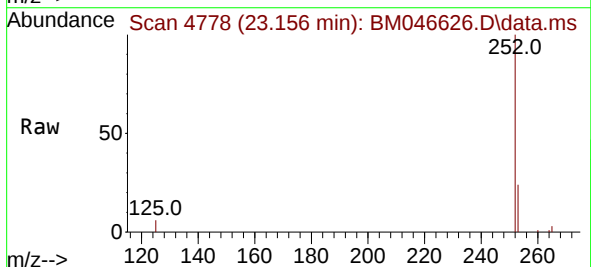
Manual Integrations  
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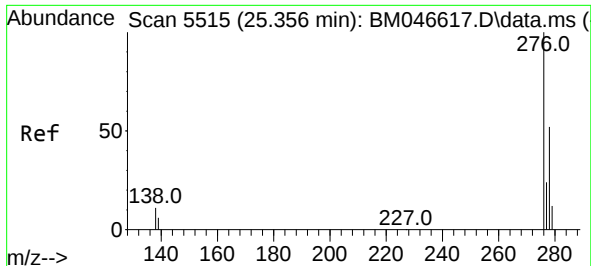
Reviewed By :Jagrut Upadhyay 07/16/2024  
Supervised By :mohammad ahmed 07/18/2024



#26  
Benzo(a)pyrene  
Concen: 6.246 ng/ul  
RT: 23.156 min Scan# 4778  
Delta R.T. 0.005 min  
Lab File: BM046626.D  
Acq: 16 Jul 2024 10:09

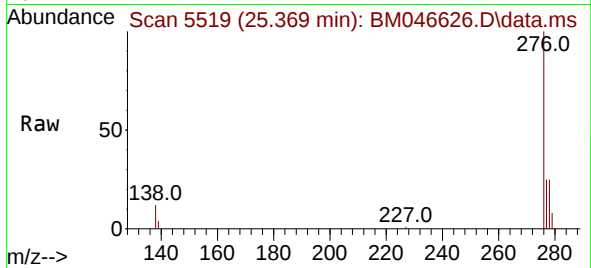
Tgt Ion:252 Resp: 235688  
Ion Ratio Lower Upper  
252 100  
253 23.6 24.0 36.0#  
125 6.3 8.2 12.2#





#27  
Indeno(1,2,3-cd)pyrene  
Concen: 4.297 ng/ul  
RT: 25.369 min Scan# 5519  
Delta R.T. 0.010 min  
Lab File: BM046626.D  
Acq: 16 Jul 2024 10:09

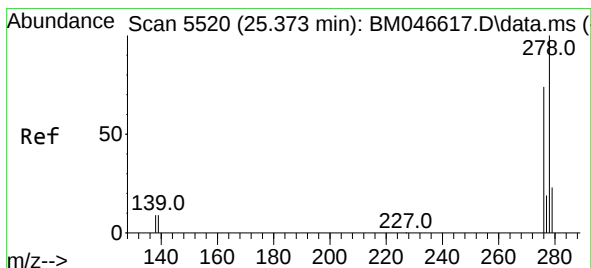
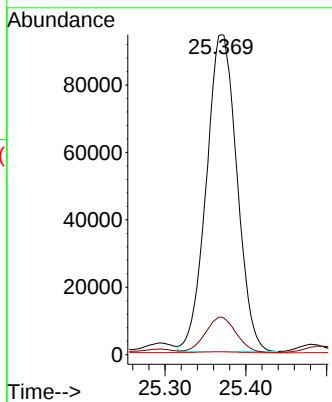
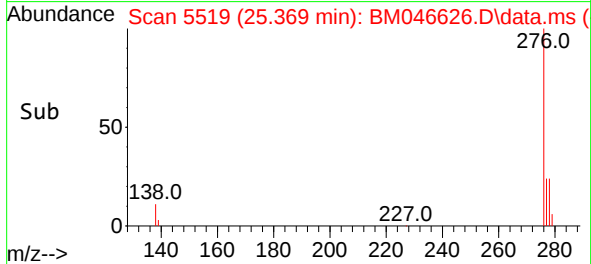
Instrument :  
BNA\_M  
ClientSampleId :  
A4CD6



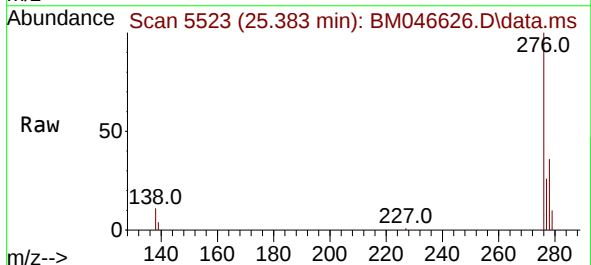
Tgt Ion:276 Resp: 24678  
Ion Ratio Lower Upper  
276 100  
138 11.3 0.0 0.0  
227 0.3 0.2 0.2

Manual Integrations  
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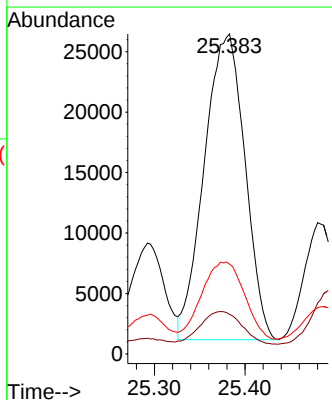
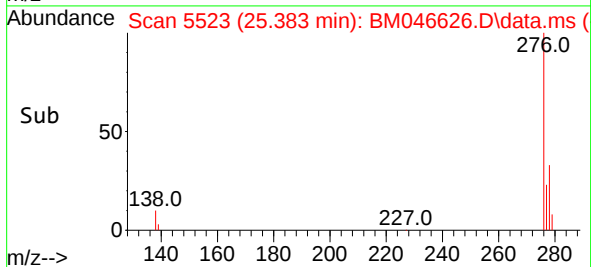
Reviewed By :Jagrut Upadhyay 07/16/2024  
Supervised By :mohammad ahmed 07/18/2024

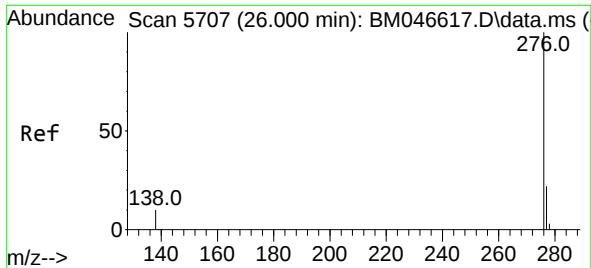


#28  
Dibenzo(a,h)anthracene  
Concen: 1.734 ng/ul  
RT: 25.383 min Scan# 5523  
Delta R.T. -0.001 min  
Lab File: BM046626.D  
Acq: 16 Jul 2024 10:09



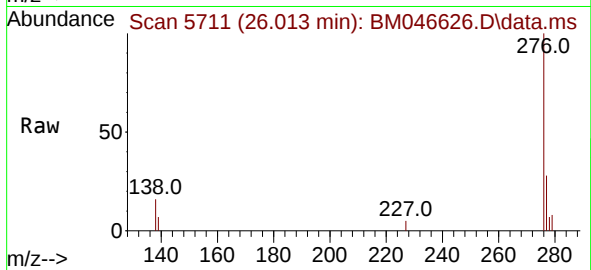
Tgt Ion:278 Resp: 78844  
Ion Ratio Lower Upper  
278 100  
139 12.3 9.1 13.7  
279 28.1 23.2 34.8





#29  
Benzo(g,h,i)perylene  
Concen: 0.783 ng/ul  
RT: 26.013 min Scan# 51  
Delta R.T. 0.010 min  
Lab File: BM046626.D  
Acq: 16 Jul 2024 10:09

Instrument :  
BNA\_M  
ClientSampleId :  
A4CD6



Tgt Ion:276 Resp: 3588  
Ion Ratio Lower Upper  
276 100  
138 15.8 10.2 15.4  
277 27.9 20.9 31.3

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 07/16/2024  
Supervised By :mohammad ahmed 07/18/2024

