

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM071524\  
 Data File : BM046662.D  
 Acq On : 17 Jul 2024 09:34  
 Operator : MA/JU  
 Sample : P3100-15  
 Misc :  
 ALS Vial : 75 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4D04

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 07/18/2024  
 Supervised By :mohammad ahmed 07/18/2024

Quant Time: Jul 17 11:00:13 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   | 7.497  | 152  | 3261     | 0.400 | ng/ul  | -0.01    |
| 4) Naphthalene-d8           | 10.255 | 136  | 9115     | 0.400 | ng/ul  | #-0.01   |
| 9) Acenaphthene-d10         | 14.141 | 164  | 5962     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 16.892 | 188  | 13524m   | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.102 | 240  | 10227    | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.241 | 264  | 10591    | 0.400 | ng/ul  | # 0.00   |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.113  | 96   | 11305    | 4.219 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.855 | 152  | 4716     | 0.321 | ng/ul  | -0.01    |
| 18) Fluoranthene-d10        | 18.932 | 212  | 11115    | 0.357 | ng/ul  | 0.00     |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       |        | Qvalue   |
| 5) Naphthalene              | 10.304 | 128  | 1016     | 0.044 | ng/ul# | 83       |
| 7) 2-Methylnaphthalene      | 11.932 | 142  | 456      | 0.028 | ng/ul  | 99       |
| 8) 1-Methylnaphthalene      | 12.152 | 142  | 346      | 0.021 | ng/ul  | 96       |
| 10) Acenaphthylene          | 13.859 | 152  | 2411     | 0.089 | ng/ul  | 94       |
| 11) Acenaphthene            | 14.201 | 153  | 1412     | 0.078 | ng/ul  | 97       |
| 12) Fluorene                | 15.201 | 166  | 1938     | 0.086 | ng/ul# | 94       |
| 15) Phenanthrene            | 16.934 | 178  | 46277    | 1.199 | ng/ul  | 98       |
| 16) Anthracene              | 17.027 | 178  | 7406     | 0.197 | ng/ul  | 97       |
| 19) Fluoranthene            | 18.965 | 202  | 107162   | 2.551 | ng/ul  | 99       |
| 20) Pyrene                  | 19.327 | 202  | 68031    | 1.496 | ng/ul  | 99       |
| 21) Benzo(a)anthracene      | 21.087 | 228  | 41891    | 0.926 | ng/ul  | 98       |
| 22) Chrysene                | 21.137 | 228  | 49362    | 1.128 | ng/ul  | 98       |
| 24) Benzo(b)fluoranthene    | 22.610 | 252  | 66921m   | 1.582 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.648 | 252  | 23391m   | 0.563 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.150 | 252  | 21849    | 0.628 | ng/ul# | 96       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.356 | 276  | 24149    | 0.456 | ng/ul# | 100      |
| 28) Dibenzo(a,h)anthracene  | 25.363 | 278  | 8161     | 0.195 | ng/ul# | 74       |
| 29) Benzo(g,h,i)perylene    | 26.000 | 276  | 8115     | 0.192 | ng/ul# | 84       |

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

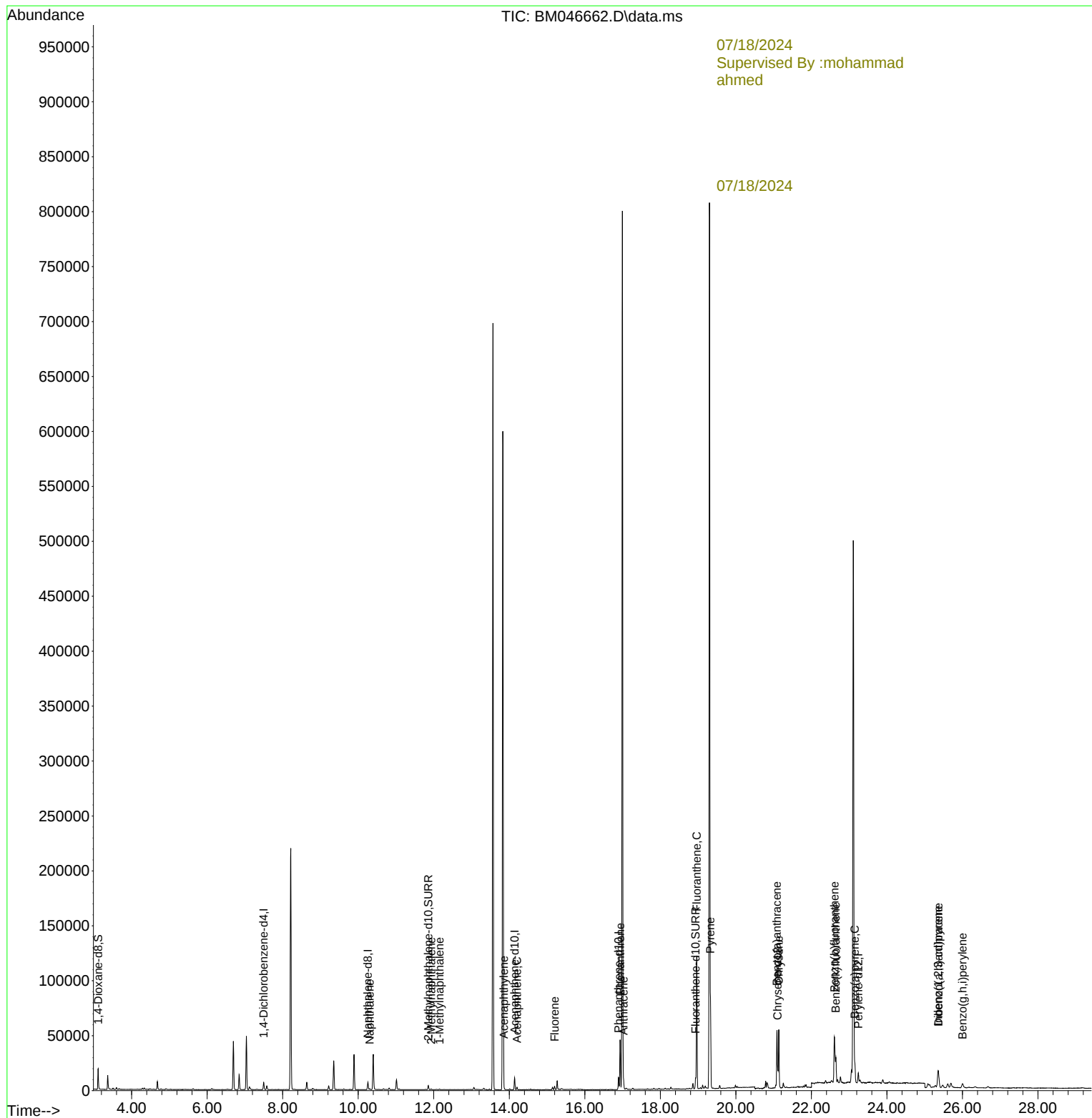
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM071524\  
Data File : BM046662.D  
Acq On : 17 Jul 2024 09:34  
Operator : MA/JU  
Sample : P3100-15  
Misc :  
ALS Vial : 75 Sample Multiplier: 1

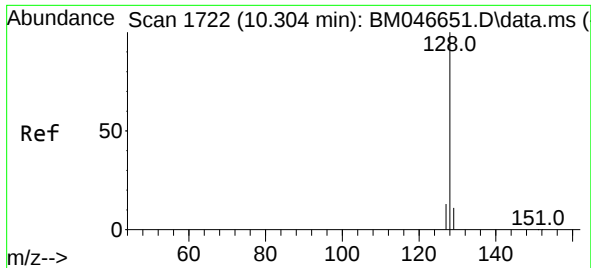
Instrument :  
BNA\_M  
ClientSampleId :  
A4D04

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Reviewed By :Yogesh Patel 07/18/2024  
Supervised By :mohammad ahmed 07/18/2024

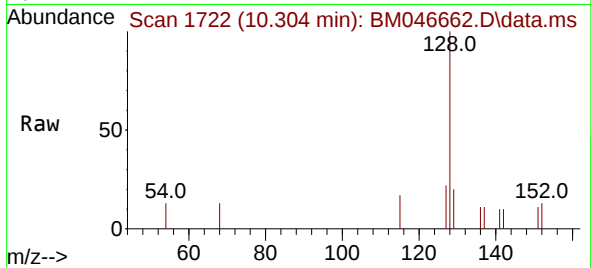
Quant Time: Jul 17 11:00:13 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM071024.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jul 15 08:57:27 2024  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.044 ng/ul  
RT: 10.304 min Scan# 1722  
Delta R.T. -0.011 min  
Lab File: BM046662.D  
Acq: 17 Jul 2024 09:34

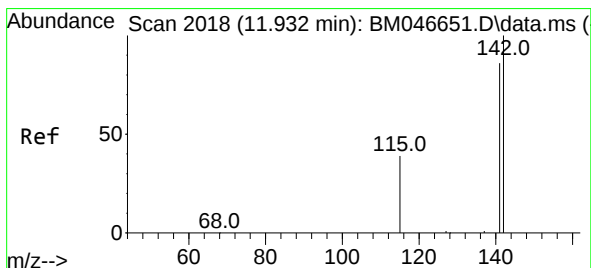
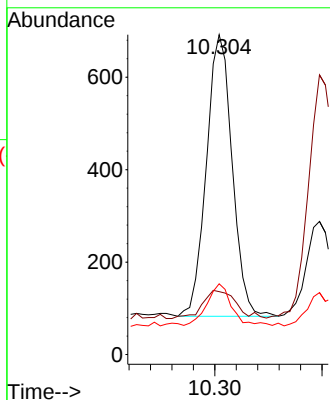
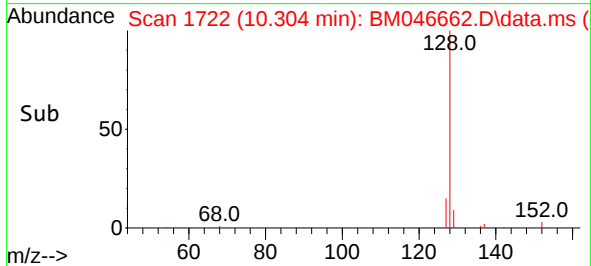
Instrument :  
BNA\_M  
ClientSampleId :  
A4D04



Tgt Ion:128 Resp: 1010  
Ion Ratio Lower Upper  
128 100  
129 19.7 10.3 15.5  
127 22.1 12.2 18.4

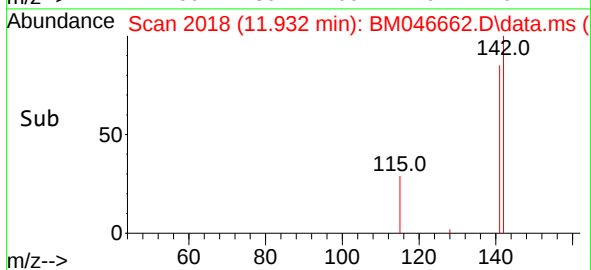
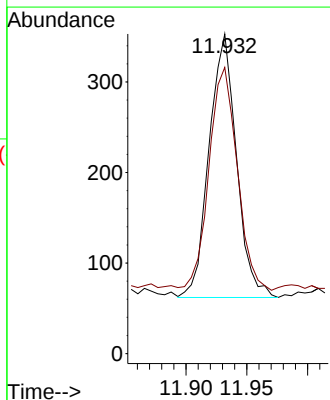
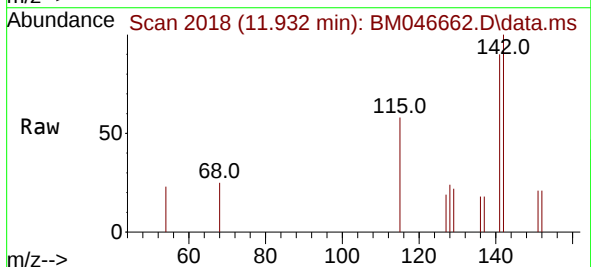
Manual Integrations  
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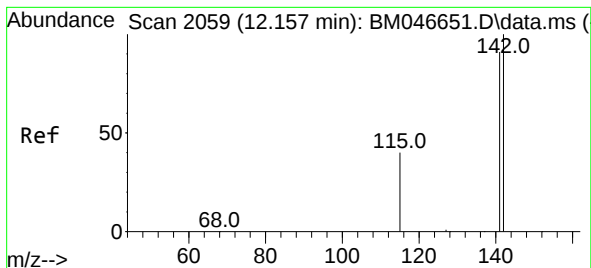
Reviewed By :Yogesh Patel 07/18/2024  
Supervised By :mohammad ahmed 07/18/2024



#7  
2-Methylnaphthalene  
Concen: 0.028 ng/ul  
RT: 11.932 min Scan# 2018  
Delta R.T. -0.011 min  
Lab File: BM046662.D  
Acq: 17 Jul 2024 09:34

Tgt Ion:142 Resp: 456  
Ion Ratio Lower Upper  
142 100  
141 87.1 70.3 105.5





#8

1-Methylnaphthalene

Concen: 0.021 ng/ul

RT: 12.152 min Scan# 2058

Delta R.T. -0.011 min

Lab File: BM046662.D

Acq: 17 Jul 2024 09:34

Instrument :

BNA\_M

ClientSampleId :

A4D04

Tgt Ion:142 Resp: 340

Ion Ratio Lower Upper

142 100

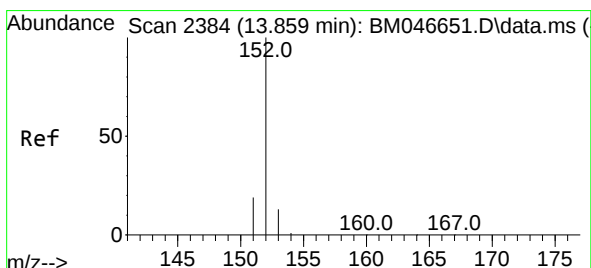
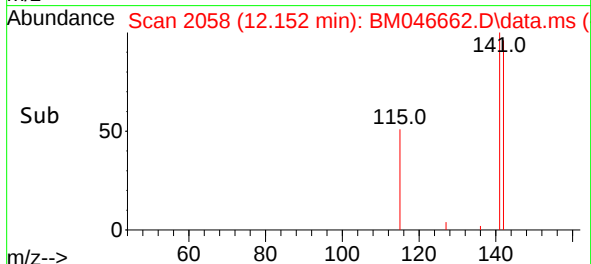
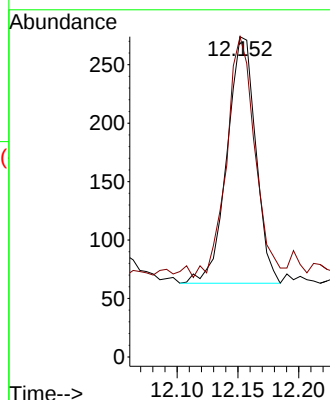
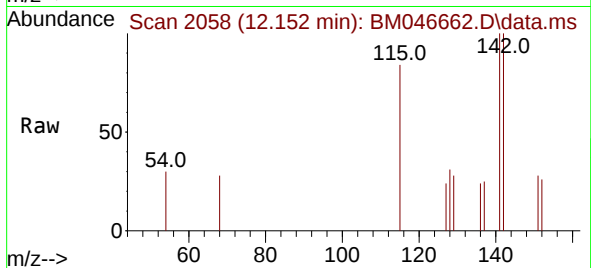
141 96.2 73.9 110.9

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Supervised By :mohammad ahmed 07/18/2024



#10

Acenaphthylene

Concen: 0.089 ng/ul

RT: 13.859 min Scan# 2384

Delta R.T. -0.005 min

Lab File: BM046662.D

Acq: 17 Jul 2024 09:34

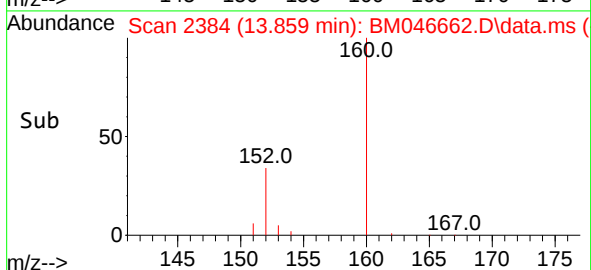
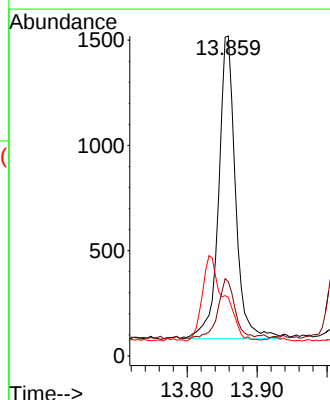
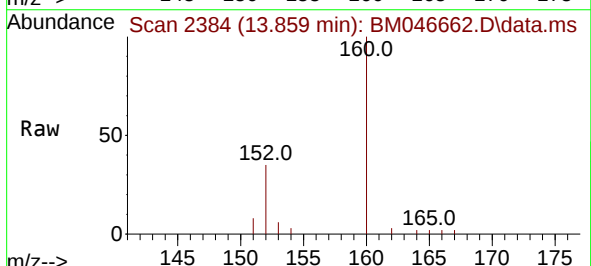
Tgt Ion:152 Resp: 2411

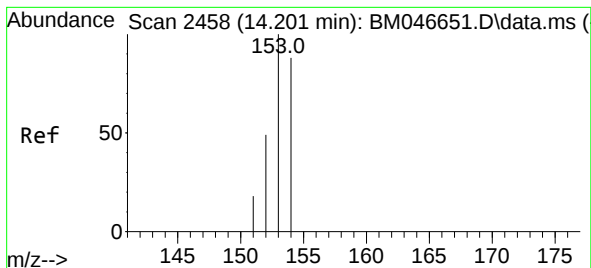
Ion Ratio Lower Upper

152 100

151 23.2 16.4 24.6

153 18.4 12.4 18.6





#11

Acenaphthene

Concen: 0.078 ng/ul

RT: 14.201 min Scan# 2458

Delta R.T. -0.010 min

Lab File: BM046662.D

Acq: 17 Jul 2024 09:34

Instrument :

BNA\_M

ClientSampleId :

A4D04

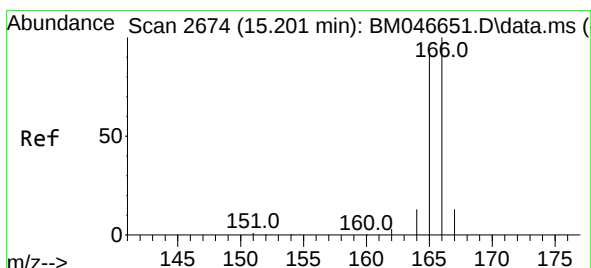
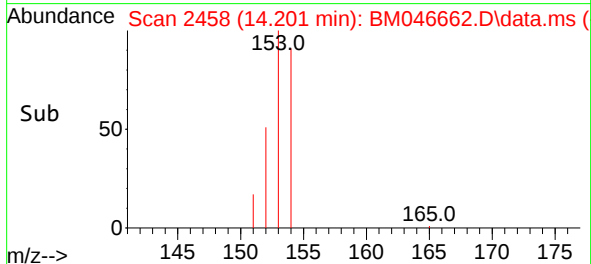
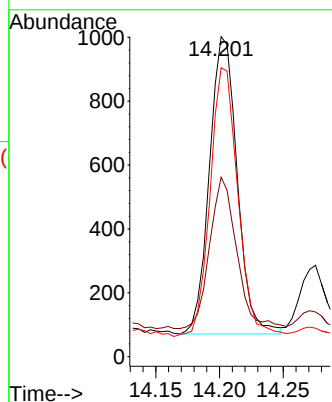
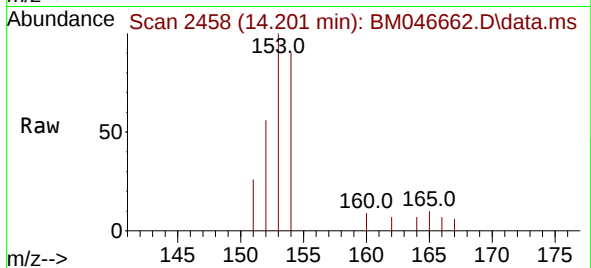
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 141   |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 56.1  | 43.0  | 64.6  |
| 154       | 90.3  | 69.9  | 104.9 |

Manual Integrations

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Reviewed By :Yogesh Patel 07/18/2024

Supervised By :mohammad ahmed 07/18/2024



#12

Fluorene

Concen: 0.086 ng/ul

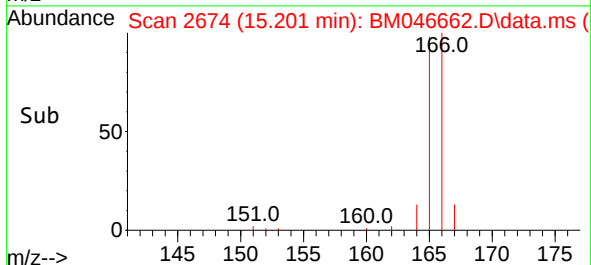
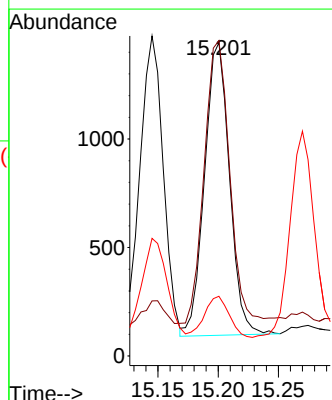
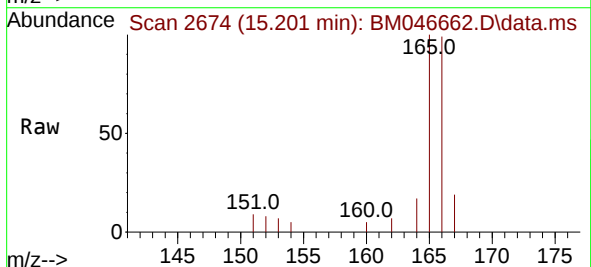
RT: 15.201 min Scan# 2674

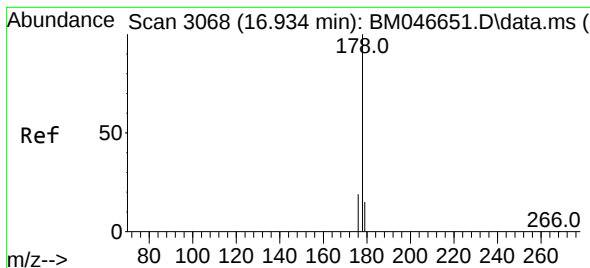
Delta R.T. -0.005 min

Lab File: BM046662.D

Acq: 17 Jul 2024 09:34

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 1938  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 100.7 | 76.1  | 114.1 |
| 167       | 19.0  | 12.5  | 18.7  |





#15

Phenanthrene

Concen: 1.199 ng/u1

RT: 16.934 min Scan# 3068

Delta R.T. -0.009 min

Lab File: BM046662.D

Acq: 17 Jul 2024 09:34

Instrument :

BNA\_M

ClientSampleId :

A4D04

Tgt Ion:178 Resp: 4627

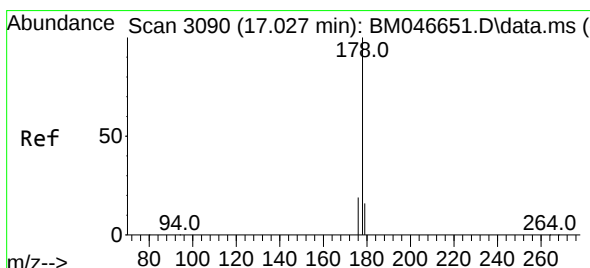
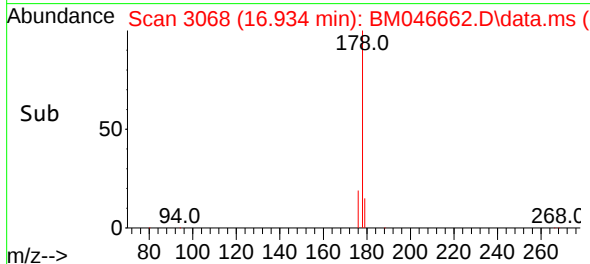
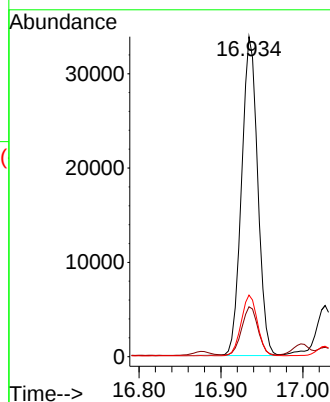
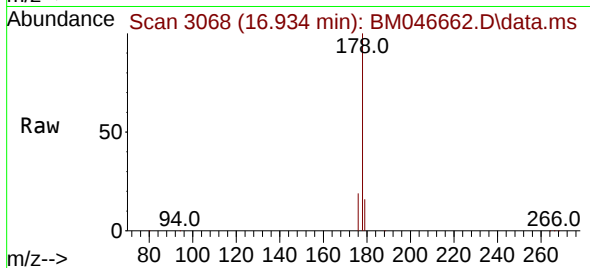
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 15.6  | 13.1  | 19.7  |
| 176 | 19.3  | 16.0  | 24.0  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/18/2024

Supervised By :mohammad ahmed 07/18/2024



#16

Anthracene

Concen: 0.197 ng/u1

RT: 17.027 min Scan# 3090

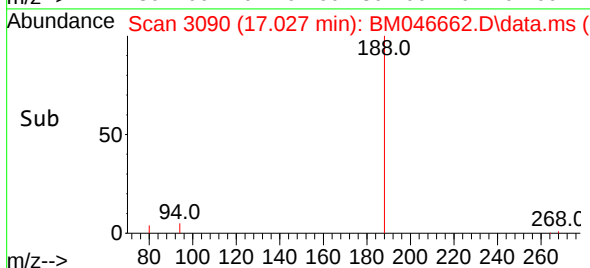
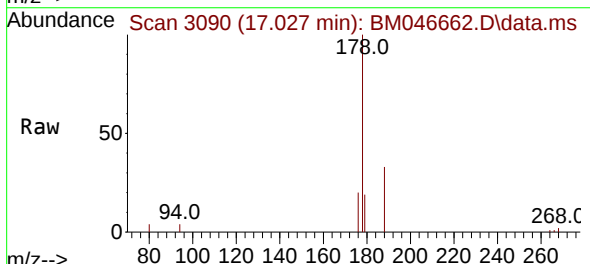
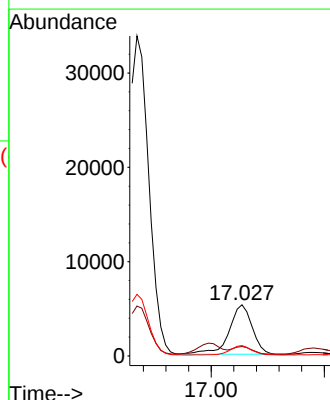
Delta R.T. -0.005 min

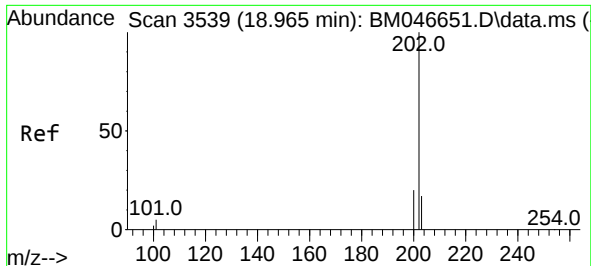
Lab File: BM046662.D

Acq: 17 Jul 2024 09:34

Tgt Ion:178 Resp: 7406

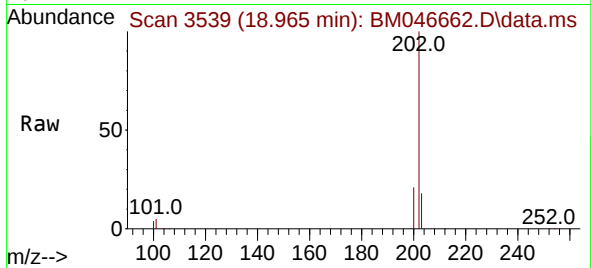
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 18.5  | 13.5  | 20.3  |
| 176 | 20.4  | 15.7  | 23.5  |





#19  
Fluoranthene  
Concen: 2.551 ng/u1  
RT: 18.965 min Scan# 3539  
Delta R.T. -0.005 min  
Lab File: BM046662.D  
Acq: 17 Jul 2024 09:34

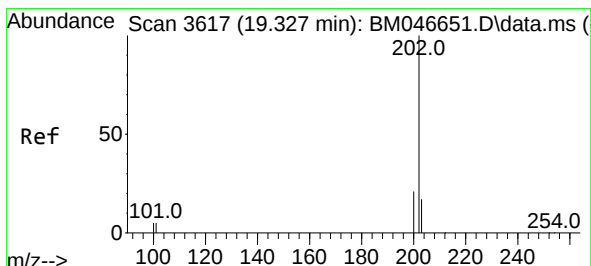
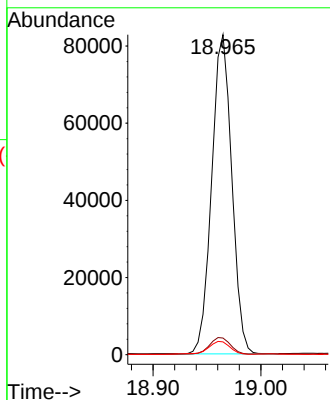
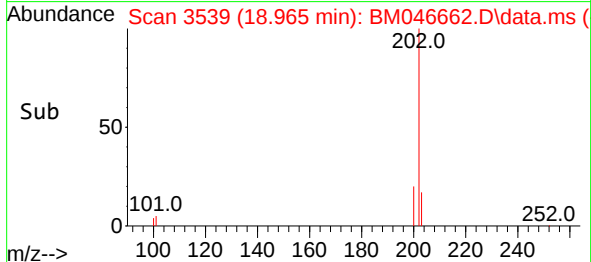
Instrument :  
BNA\_M  
ClientSampleId :  
A4D04



Tgt Ion:202 Resp: 107162  
Ion Ratio Lower Upper  
202 100  
101 5.2 4.6 6.8  
100 4.0 3.0 4.6

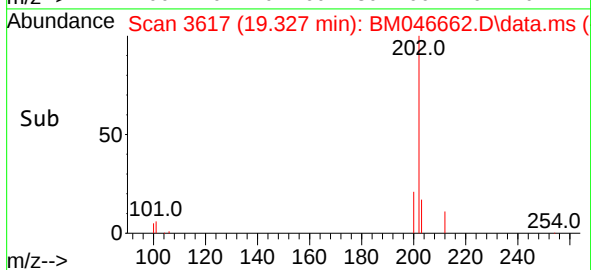
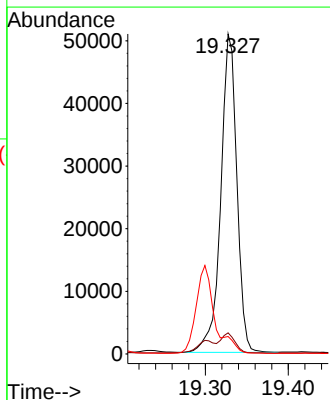
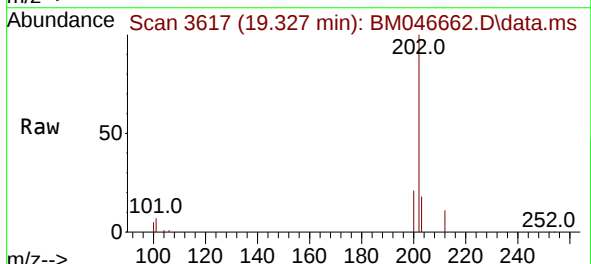
Manual Integrations  
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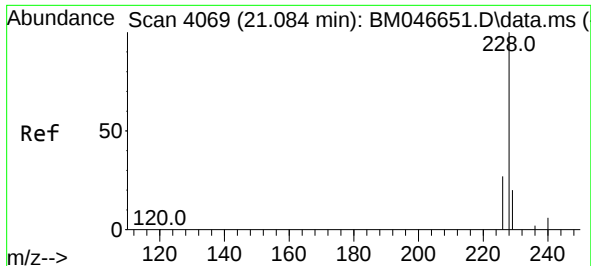
Reviewed By :Yogesh Patel 07/18/2024  
Supervised By :mohammad ahmed 07/18/2024



#20  
Pyrene  
Concen: 1.496 ng/u1  
RT: 19.327 min Scan# 3617  
Delta R.T. -0.005 min  
Lab File: BM046662.D  
Acq: 17 Jul 2024 09:34

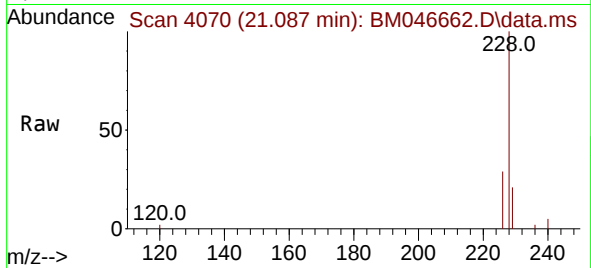
Tgt Ion:202 Resp: 68031  
Ion Ratio Lower Upper  
202 100  
101 6.6 5.1 7.7  
100 5.5 3.8 5.6





#21  
Benzo(a)anthracene  
Concen: 0.926 ng/ul  
RT: 21.087 min Scan# 4069  
Delta R.T. -0.000 min  
Lab File: BM046662.D  
Acq: 17 Jul 2024 09:34

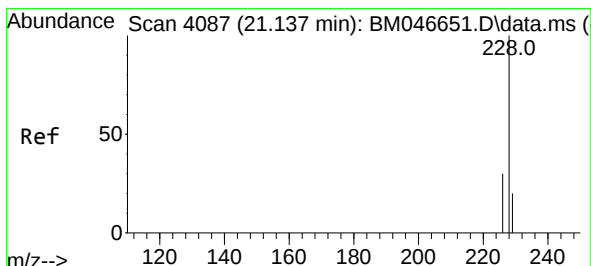
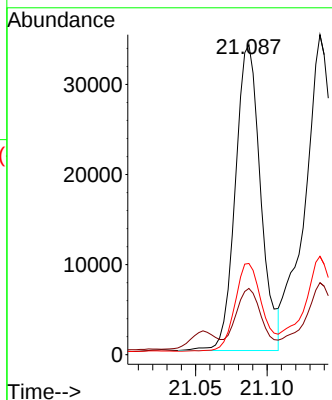
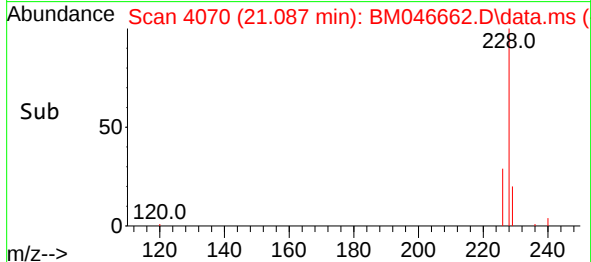
Instrument :  
BNA\_M  
ClientSampleId :  
A4D04



Tgt Ion:228 Resp: 4189  
Ion Ratio Lower Upper  
228 100  
229 21.4 16.5 24.7  
226 29.4 22.5 33.7

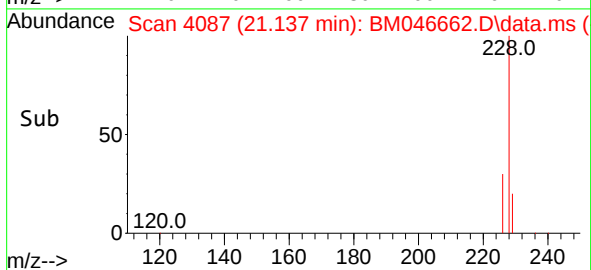
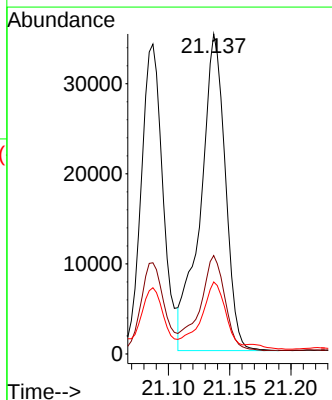
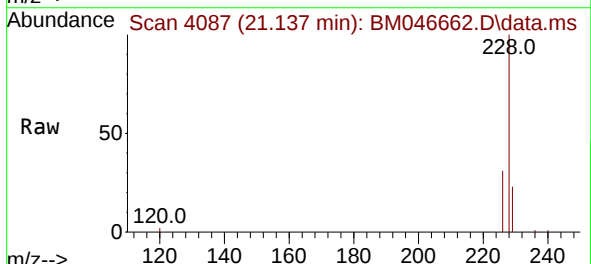
Manual Integrations  
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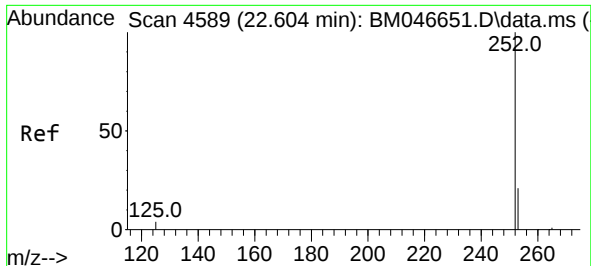
Reviewed By :Yogesh Patel 07/18/2024  
Supervised By :mohammad ahmed 07/18/2024



#22  
Chrysene  
Concen: 1.128 ng/ul  
RT: 21.137 min Scan# 4087  
Delta R.T. -0.003 min  
Lab File: BM046662.D  
Acq: 17 Jul 2024 09:34

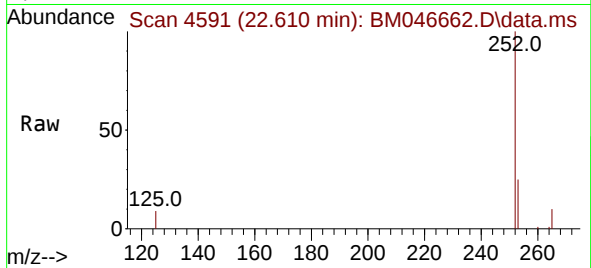
Tgt Ion:228 Resp: 49362  
Ion Ratio Lower Upper  
228 100  
226 30.7 24.3 36.5  
229 22.5 16.4 24.6





#24  
Benzo(b)fluoranthene  
Concen: 1.582 ng/ul m  
RT: 22.610 min Scan# 4591  
Delta R.T. -0.000 min  
Lab File: BM046662.D  
Acq: 17 Jul 2024 09:34

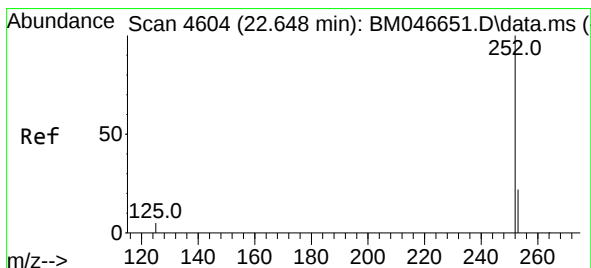
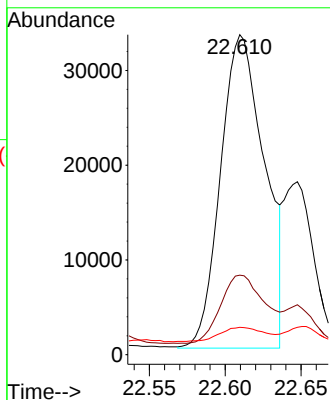
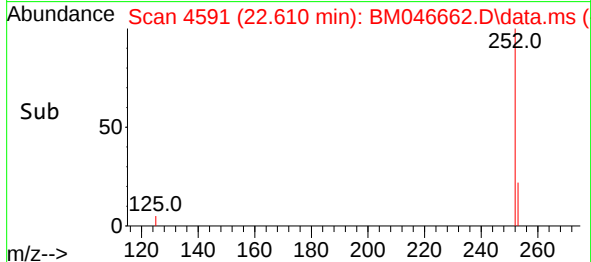
Instrument :  
BNA\_M  
ClientSampleId :  
A4D04



Tgt Ion:252 Resp: 6692  
Ion Ratio Lower Upper  
252 100  
253 24.8 0.0 56.2  
125 8.6 0.0 17.8

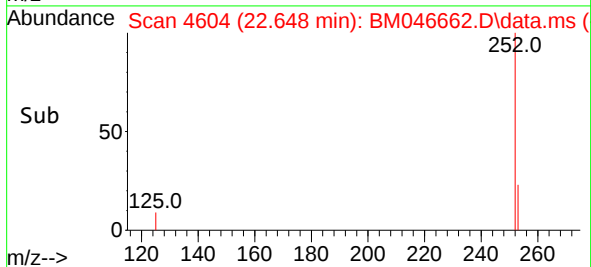
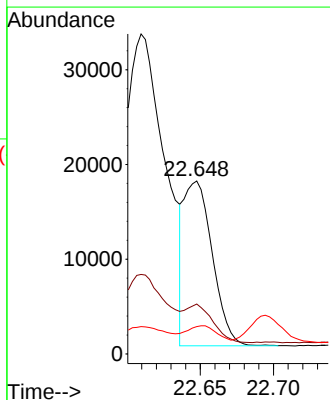
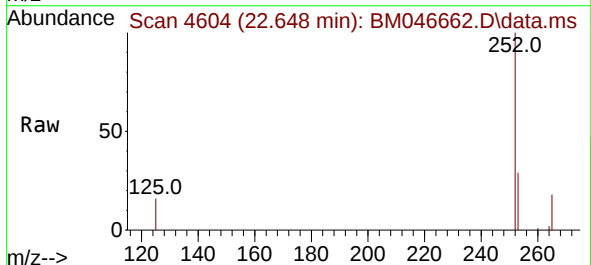
Manual Integrations  
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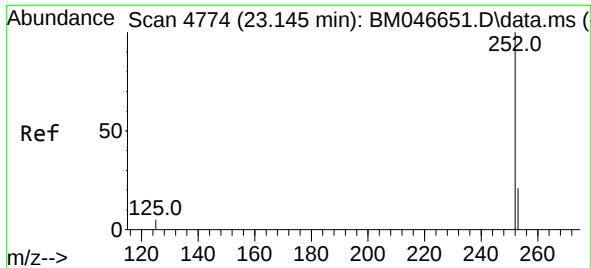
Reviewed By :Yogesh Patel 07/18/2024  
Supervised By :mohammad ahmed 07/18/2024



#25  
Benzo(k)fluoranthene  
Concen: 0.563 ng/ul m  
RT: 22.648 min Scan# 4604  
Delta R.T. -0.003 min  
Lab File: BM046662.D  
Acq: 17 Jul 2024 09:34

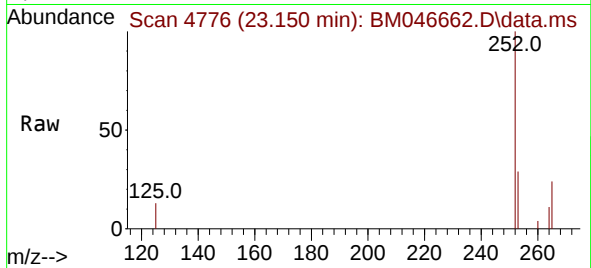
Tgt Ion:252 Resp: 23391  
Ion Ratio Lower Upper  
252 100  
253 28.8 22.4 33.6  
125 15.9 7.0 10.4#





#26  
Benzo(a)pyrene  
Concen: 0.628 ng/ul  
RT: 23.150 min Scan# 4776  
Delta R.T. -0.000 min  
Lab File: BM046662.D  
Acq: 17 Jul 2024 09:34

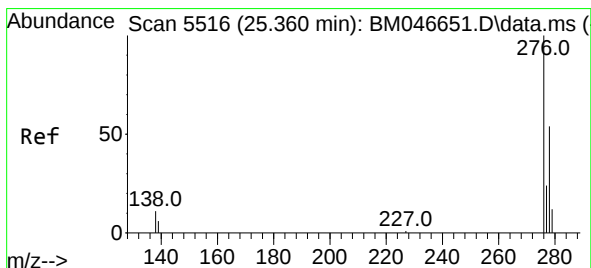
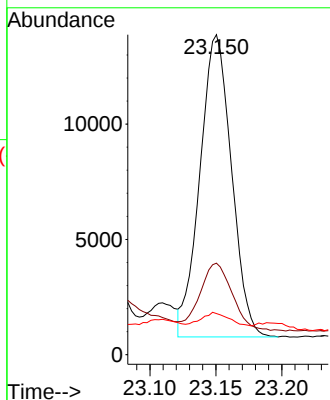
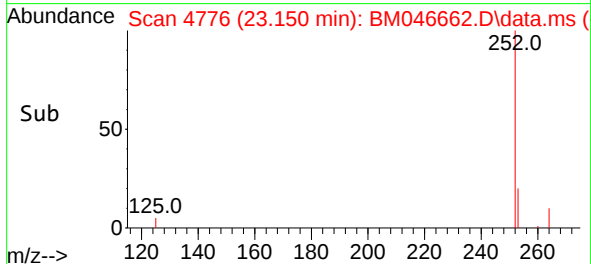
Instrument :  
BNA\_M  
ClientSampleId :  
A4D04



Tgt Ion:252 Resp: 21849  
Ion Ratio Lower Upper  
252 100  
253 28.6 24.0 36.0  
125 12.9 8.2 12.2

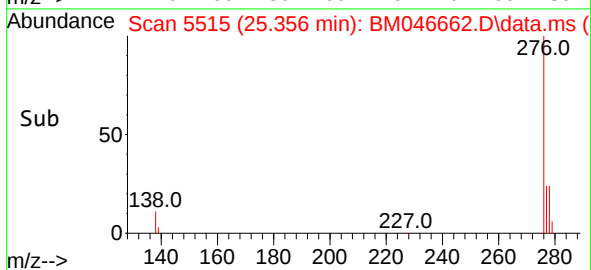
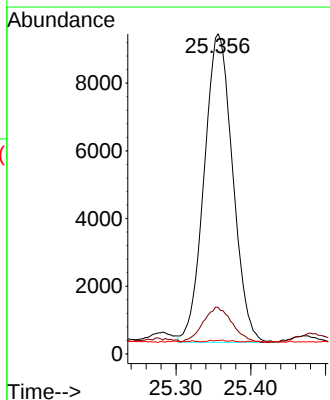
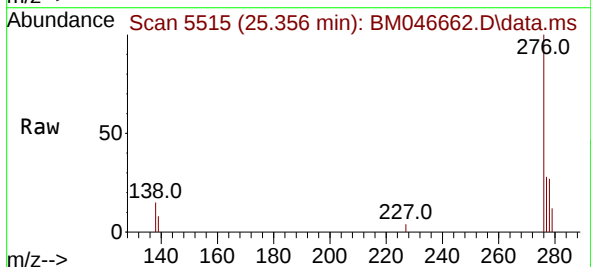
Manual Integrations  
APPROVED

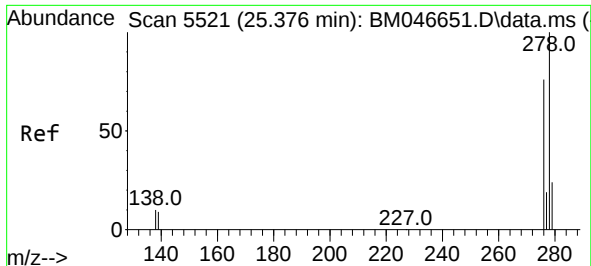
Reviewed By :Yogesh Patel 07/18/2024  
Supervised By :mohammad ahmed 07/18/2024



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.456 ng/ul  
RT: 25.356 min Scan# 5515  
Delta R.T. -0.004 min  
Lab File: BM046662.D  
Acq: 17 Jul 2024 09:34

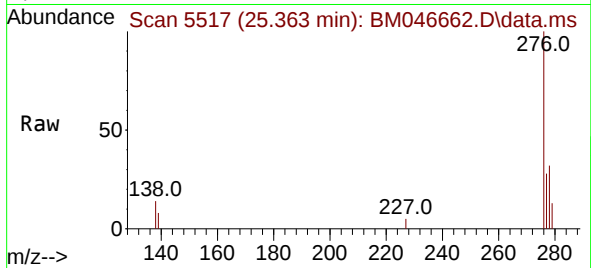
Tgt Ion:276 Resp: 24149  
Ion Ratio Lower Upper  
276 100  
138 11.9 0.0 0.0#  
227 0.2 0.2 0.2





#28  
Dibenzo(a,h)anthracene  
Concen: 0.195 ng/ul  
RT: 25.363 min Scan# 516  
Delta R.T. -0.021 min  
Lab File: BM046662.D  
Acq: 17 Jul 2024 09:34

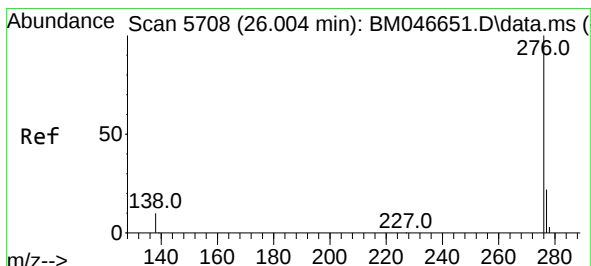
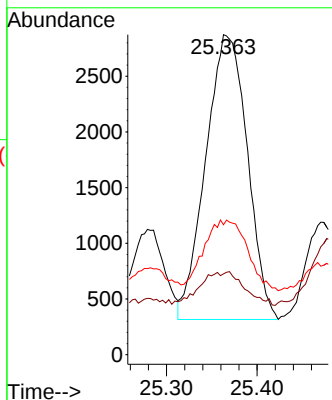
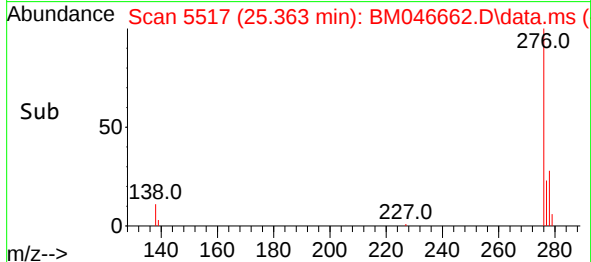
Instrument :  
BNA\_M  
ClientSampleId :  
A4D04



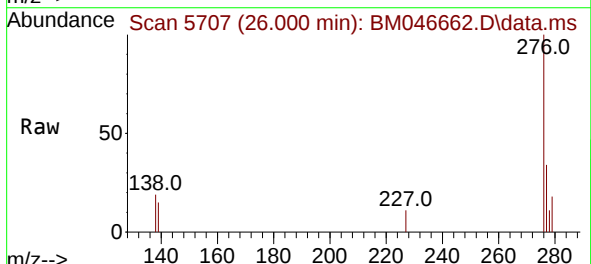
Tgt Ion:278 Resp: 816  
Ion Ratio Lower Upper  
278 100  
139 25.3 9.1 13.7  
279 40.6 23.2 34.8

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 07/18/2024  
Supervised By :mohammad ahmed 07/18/2024



#29  
Benzo(g,h,i)perylene  
Concen: 0.192 ng/ul  
RT: 26.000 min Scan# 5707  
Delta R.T. -0.004 min  
Lab File: BM046662.D  
Acq: 17 Jul 2024 09:34



Tgt Ion:276 Resp: 8115  
Ion Ratio Lower Upper  
276 100  
138 19.5 10.2 15.4#  
277 34.3 20.9 31.3#

